

February 07, 2020

Vista Work Order No. 1904016

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.

Vista Work Order No. 1904016

Case Narrative

Sample Condition on Receipt:

Two QC water and 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.

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.

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 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.

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

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1904016-01	PDI-FB-1911121146	12-Nov-19 11:46	15-Nov-19 08:54	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
1904016-02	PDI-RB-1911120944	12-Nov-19 09:44	15-Nov-19 08:54	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
1904016-03	PDI-140RAB-00-10-191108	08-Nov-19 11:40	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL
1904016-04	PDI-140RAB-10-12.7-191108	08-Nov-19 12:15	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL
1904016-05	PDI-141RAB-00-10-191107	07-Nov-19 15:15	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL
1904016-06	PDI-141RAB-10-17.7-191107	07-Nov-19 16:45	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL
1904016-07	PDI-143RAB-00-10-191111	11-Nov-19 12:30	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL
1904016-08	PDI-143RAB-10-20-191111	11-Nov-19 14:05	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL
1904016-09	PDI-143RAB-20-31.1-191111	11-Nov-19 15:30	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Aqueous Sample Size: 1.00 L		QC Batch: B9K0253 Date Extracted: 26-Nov-2019 6:59		Lab Sample: B9K0253-BLK1 Date Analyzed: 04-Dec-19 21:45 Column: ZB-5MS				
Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.864			IS 13C-2,3,7,8-TCDD	98.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.973			13C-1,2,3,7,8-PeCDD	111	25 - 181	
1,2,3,4,7,8-HxCDD	ND	1.12			13C-1,2,3,4,7,8-HxCDD	89.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	1.27			13C-1,2,3,6,7,8-HxCDD	76.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	1.24			13C-1,2,3,7,8,9-HxCDD	78.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	1.43			13C-1,2,3,4,6,7,8-HpCDD	68.8	23 - 140	
OCDD	ND	1.68			13C-OCDD	65.2	17 - 157	
2,3,7,8-TCDF	ND	0.754			13C-2,3,7,8-TCDF	86.3	24 - 169	
1,2,3,7,8-PeCDF	ND	1.38			13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	ND	1.29			13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.513			13C-1,2,3,4,7,8-HxCDF	110	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.594			13C-1,2,3,6,7,8-HxCDF	88.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.626			13C-2,3,4,6,7,8-HxCDF	89.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.901			13C-1,2,3,7,8,9-HxCDF	83.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.935			13C-1,2,3,4,6,7,8-HpCDF	68.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.818			13C-1,2,3,4,7,8,9-HpCDF	75.6	26 - 138	
OCDF	ND	1.86			13C-OCDF	69.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	100	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/L)			
					TEQMinWHO2005Dioxin 0.00			
TOTALS								
Total TCDD	ND	0.864						
Total PeCDD	ND	0.973						
Total HxCDD	ND	1.22						
Total HpCDD	ND	1.43						
Total TCDF	ND	0.754						
Total PeCDF	ND	1.33						
Total HxCDF	ND	0.642						
Total HpCDF	ND	0.881						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Aqueous Sample Size: 1.00 L		QC Batch: B9K0253 Date Extracted: 26-Nov-2019 6:59		Lab Sample: B9K0253-BS1 Date Analyzed: 04-Dec-19 18:34 Column: ZB-5MS			
Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	214	200	107	67 - 158	IS 13C-2,3,7,8-TCDD	84.2	20 - 175
1,2,3,7,8-PeCDD	1070	1000	107	70 - 142	13C-1,2,3,7,8-PeCDD	96.9	21 - 227
1,2,3,4,7,8-HxCDD	986	1000	98.6	70 - 164	13C-1,2,3,4,7,8-HxCDD	84.4	21 - 193
1,2,3,6,7,8-HxCDD	1030	1000	103	76 - 134	13C-1,2,3,6,7,8-HxCDD	70.8	25 - 163
1,2,3,7,8,9-HxCDD	1020	1000	102	64 - 162	13C-1,2,3,7,8,9-HxCDD	73.4	21 - 193
1,2,3,4,6,7,8-HpCDD	1000	1000	100	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	70.4	26 - 166
OCDD	2120	2000	106	78 - 144	13C-OCDD	65.1	13 - 199
2,3,7,8-TCDF	187	200	93.7	75 - 158	13C-2,3,7,8-TCDF	75.3	22 - 152
1,2,3,7,8-PeCDF	1070	1000	107	80 - 134	13C-1,2,3,7,8-PeCDF	92.0	21 - 192
2,3,4,7,8-PeCDF	1060	1000	106	68 - 160	13C-2,3,4,7,8-PeCDF	91.7	13 - 328
1,2,3,4,7,8-HxCDF	944	1000	94.4	72 - 134	13C-1,2,3,4,7,8-HxCDF	102	19 - 202
1,2,3,6,7,8-HxCDF	914	1000	91.4	84 - 130	13C-1,2,3,6,7,8-HxCDF	84.0	21 - 159
2,3,4,6,7,8-HxCDF	964	1000	96.4	70 - 156	13C-2,3,4,6,7,8-HxCDF	77.7	22 - 176
1,2,3,7,8,9-HxCDF	952	1000	95.2	78 - 130	13C-1,2,3,7,8,9-HxCDF	78.0	17 - 205
1,2,3,4,6,7,8-HpCDF	952	1000	95.2	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	62.1	21 - 158
1,2,3,4,7,8,9-HpCDF	936	1000	93.6	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	71.3	20 - 186
OCDF	1940	2000	97.1	63 - 170	13C-OCDF	69.8	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	99.4	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-FB-1911121146 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: QC Water	Lab Sample: 1904016-01 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 1.04 L	QC Batch: B9K0253 Date Extracted: 26-Nov-2019 6:59
Date Collected: 12-Nov-2019 11:46		Date Analyzed: 04-Dec-19 22:33 Column: ZB-5MS

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.584			IS 13C-2,3,7,8-TCDD	90.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.828			13C-1,2,3,7,8-PeCDD	103	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.706			13C-1,2,3,4,7,8-HxCDD	86.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.817			13C-1,2,3,6,7,8-HxCDD	70.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.772			13C-1,2,3,7,8,9-HxCDD	76.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	1.31			13C-1,2,3,4,6,7,8-HpCDD	71.0	23 - 140	
OCDD	ND	1.61			13C-OCDD	61.6	17 - 157	
2,3,7,8-TCDF	ND	0.687			13C-2,3,7,8-TCDF	87.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.818			13C-1,2,3,7,8-PeCDF	101	24 - 185	
2,3,4,7,8-PeCDF	ND	0.891			13C-2,3,4,7,8-PeCDF	98.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.301			13C-1,2,3,4,7,8-HxCDF	99.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.364			13C-1,2,3,6,7,8-HxCDF	81.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.391			13C-2,3,4,6,7,8-HxCDF	79.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.544			13C-1,2,3,7,8,9-HxCDF	80.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.843			13C-1,2,3,4,6,7,8-HpCDF	63.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.667			13C-1,2,3,4,7,8,9-HpCDF	73.6	26 - 138	
OCDF	ND	1.27			13C-OCDF	67.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.0	35 - 197	

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

TEQMinWHO2005Dioxin 0.00

TOTALS								
Total TCDD	ND	0.584						
Total PeCDD	ND	0.828						
Total HxCDD	ND	0.768						
Total HpCDD	ND	1.31						
Total TCDF	ND	0.687						
Total PeCDF	ND	0.855						
Total HxCDF	ND	0.391						
Total HpCDF	ND	0.758						

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

LCL-UCL- Lower control limit - upper control limit
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-RB-1911120944 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: QC Water	Lab Sample: 1904016-02 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 1.03 L	QC Batch: B9K0253 Date Extracted: 26-Nov-2019 6:59
Date Collected: 12-Nov-2019 9:44		Date Analyzed : 04-Dec-19 23:21 Column: ZB-5MS

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.646			IS 13C-2,3,7,8-TCDD	103	25 - 164	
1,2,3,7,8-PeCDD	ND	0.767			13C-1,2,3,7,8-PeCDD	119	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.876			13C-1,2,3,4,7,8-HxCDD	94.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.931			13C-1,2,3,6,7,8-HxCDD	78.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.968			13C-1,2,3,7,8,9-HxCDD	80.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	1.14			13C-1,2,3,4,6,7,8-HpCDD	66.2	23 - 140	
OCDD	ND	2.20			13C-OCDD	63.6	17 - 157	
2,3,7,8-TCDF	ND	0.575			13C-2,3,7,8-TCDF	88.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.662			13C-1,2,3,7,8-PeCDF	114	24 - 185	
2,3,4,7,8-PeCDF	ND	0.608			13C-2,3,4,7,8-PeCDF	115	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.362			13C-1,2,3,4,7,8-HxCDF	111	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.441			13C-1,2,3,6,7,8-HxCDF	87.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.472			13C-2,3,4,6,7,8-HxCDF	86.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.628			13C-1,2,3,7,8,9-HxCDF	88.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	1.09			13C-1,2,3,4,6,7,8-HpCDF	63.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.876			13C-1,2,3,4,7,8,9-HpCDF	74.8	26 - 138	
OCDF	ND	1.64			13C-OCDF	69.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	

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

TEQMinWHO2005Dioxin 0.00

TOTALS		
Total TCDD	ND	0.646
Total PeCDD	ND	0.767
Total HxCDD	ND	0.929
Total HpCDD	ND	1.14
Total TCDF	ND	0.575
Total PeCDF	ND	0.634
Total HxCDF	ND	0.466
Total HpCDF	ND	0.988

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

LCL-UCL- Lower control limit - upper control limit
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: 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: PDI-140RAB-00-10-191108 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904016-03 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 12.3 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 08-Nov-2019 11:40	% Solids: 81.8	Date Analyzed : 05-Dec-19 10:45 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.208			IS 13C-2,3,7,8-TCDD	102	25 - 164	
1,2,3,7,8-PeCDD	ND	0.257			13C-1,2,3,7,8-PeCDD	117	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.332			13C-1,2,3,4,7,8-HxCDD	107	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.362			13C-1,2,3,6,7,8-HxCDD	91.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.349			13C-1,2,3,7,8,9-HxCDD	98.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	8.19				13C-1,2,3,4,6,7,8-HpCDD	98.2	23 - 140	
OCDD	53.1				13C-OCDD	110	17 - 157	
2,3,7,8-TCDF	ND	0.222			13C-2,3,7,8-TCDF	94.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.168			13C-1,2,3,7,8-PeCDF	119	24 - 185	
2,3,4,7,8-PeCDF	ND	0.149			13C-2,3,4,7,8-PeCDF	118	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.125			13C-1,2,3,4,7,8-HxCDF	123	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.131			13C-1,2,3,6,7,8-HxCDF	102	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.154			13C-2,3,4,6,7,8-HxCDF	98.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.209			13C-1,2,3,7,8,9-HxCDF	98.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.649			J	13C-1,2,3,4,6,7,8-HpCDF	88.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.225			13C-1,2,3,4,7,8,9-HpCDF	97.3	26 - 138	
OCDF	2.11			J	13C-OCDF	116	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	93.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.105

TOTALS								
Total TCDD	ND	0.208						
Total PeCDD	ND	0.257						
Total HxCDD	ND		0.732					
Total HpCDD	18.7							
Total TCDF	ND	0.222						
Total PeCDF	0.501		0.827					
Total HxCDF	0.491		0.885					
Total HpCDF	2.01							

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-140RAB-10-12.7-191108 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904016-04 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 12.5 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 08-Nov-2019 12:15	% Solids: 80.5	Date Analyzed : 05-Dec-19 11:33 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.244			IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	ND	0.231			13C-1,2,3,7,8-PeCDD	113	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.342			13C-1,2,3,4,7,8-HxCDD	109	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.390			13C-1,2,3,6,7,8-HxCDD	85.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.393			13C-1,2,3,7,8,9-HxCDD	94.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	19.8				13C-1,2,3,4,6,7,8-HpCDD	91.8	23 - 140	
OCDD	124				13C-OCDD	110	17 - 157	
2,3,7,8-TCDF	ND	0.201			13C-2,3,7,8-TCDF	95.1	24 - 169	
1,2,3,7,8-PeCDF	ND		0.122		13C-1,2,3,7,8-PeCDF	119	24 - 185	
2,3,4,7,8-PeCDF	0.129			J	13C-2,3,4,7,8-PeCDF	115	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.142			13C-1,2,3,4,7,8-HxCDF	118	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.151			13C-1,2,3,6,7,8-HxCDF	97.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.281		13C-2,3,4,6,7,8-HxCDF	95.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.227			13C-1,2,3,7,8,9-HxCDF	97.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.88			J	13C-1,2,3,4,6,7,8-HpCDF	91.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.413			13C-1,2,3,4,7,8,9-HpCDF	97.1	26 - 138	
OCDF	4.96				13C-OCDF	114	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.294

TOTALS								
Total TCDD	ND	0.244						
Total PeCDD	ND		0.440					
Total HxCDD	4.81		5.23					
Total HpCDD	44.6							
Total TCDF	ND		0.512					
Total PeCDF	4.88		5.63					
Total HxCDF	3.56		4.34					
Total HpCDF	5.74							

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-141RAB-00-10-191107 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904016-05 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 10.9 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 07-Nov-2019 15:15	% Solids: 91.5	Date Analyzed : 05-Dec-19 12:21 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.294			IS 13C-2,3,7,8-TCDD	105	25 - 164	
1,2,3,7,8-PeCDD	ND	0.249			13C-1,2,3,7,8-PeCDD	119	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.449			13C-1,2,3,4,7,8-HxCDD	108	32 - 141	
1,2,3,6,7,8-HxCDD	2.18			J	13C-1,2,3,6,7,8-HxCDD	91.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.986		13C-1,2,3,7,8,9-HxCDD	98.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	48.7				13C-1,2,3,4,6,7,8-HpCDD	97.8	23 - 140	
OCDD	497				13C-OCDD	110	17 - 157	
2,3,7,8-TCDF	ND	0.335			13C-2,3,7,8-TCDF	96.5	24 - 169	
1,2,3,7,8-PeCDF	0.913			J	13C-1,2,3,7,8-PeCDF	120	24 - 185	
2,3,4,7,8-PeCDF	0.483			J	13C-2,3,4,7,8-PeCDF	121	21 - 178	
1,2,3,4,7,8-HxCDF	2.54				13C-1,2,3,4,7,8-HxCDF	124	26 - 152	
1,2,3,6,7,8-HxCDF	ND		1.09		13C-1,2,3,6,7,8-HxCDF	100	26 - 123	
2,3,4,6,7,8-HxCDF	1.12			J	13C-2,3,4,6,7,8-HxCDF	97.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.221		13C-1,2,3,7,8,9-HxCDF	97.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	9.18				13C-1,2,3,4,6,7,8-HpCDF	90.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.979			J	13C-1,2,3,4,7,8,9-HpCDF	96.4	26 - 138	
OCDF	16.8				13C-OCDF	114	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 1.50

TOTALS								
Total TCDD	ND		1.24					
Total PeCDD	1.76		2.49					
Total HxCDD	6.62		14.7					
Total HpCDD	108							
Total TCDF	ND	0.335						
Total PeCDF	15.3		17.0					
Total HxCDF	20.5		22.0					
Total HpCDF	29.1							

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

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

Sample ID: PDI-141RAB-10-17.7-191107 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904016-06 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 12.0 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 07-Nov-2019 16:45	% Solids: 83.9	Date Analyzed : 02-Jan-20 18:43 Column: DB-225 05-Dec-19 13:09 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.817			IS 13C-2,3,7,8-TCDD	56.8	25 - 164	
1,2,3,7,8-PeCDD	ND		0.867		13C-1,2,3,7,8-PeCDD	45.2	25 - 181	
1,2,3,4,7,8-HxCDD	2.86				13C-1,2,3,4,7,8-HxCDD	50.4	32 - 141	
1,2,3,6,7,8-HxCDD	19.3				13C-1,2,3,6,7,8-HxCDD	41.9	28 - 130	
1,2,3,7,8,9-HxCDD	5.59				13C-1,2,3,7,8,9-HxCDD	41.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	1310				13C-1,2,3,4,6,7,8-HpCDD	38.6	23 - 140	
OCDD	9030			D	13C-OCDD	27.6	17 - 157	D
2,3,7,8-TCDF	3.73				13C-2,3,7,8-TCDF	53.8	24 - 169	
1,2,3,7,8-PeCDF	6.78				13C-1,2,3,7,8-PeCDF	56.1	24 - 185	
2,3,4,7,8-PeCDF	3.51				13C-2,3,4,7,8-PeCDF	50.3	21 - 178	
1,2,3,4,7,8-HxCDF	10.0				13C-1,2,3,4,7,8-HxCDF	51.6	26 - 152	
1,2,3,6,7,8-HxCDF	2.43			J	13C-1,2,3,6,7,8-HxCDF	42.8	26 - 123	
2,3,4,6,7,8-HxCDF	1.53			J	13C-2,3,4,6,7,8-HxCDF	41.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.629			13C-1,2,3,7,8,9-HxCDF	43.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	39.5				13C-1,2,3,4,6,7,8-HpCDF	34.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	3.55				13C-1,2,3,4,7,8,9-HpCDF	37.2	26 - 138	
OCDF	248				13C-OCDF	32.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	54.3	35 - 197	

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

TEQMinWHO2005Dioxin 22.1

TOTALS			
Total TCDD	ND	0.817	
Total PeCDD	20.9		22.1
Total HxCDD	358		
Total HpCDD	3530		
Total TCDF	18.8		23.0
Total PeCDF	31.3		34.4
Total HxCDF	50.0		51.9
Total HpCDF	206		

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-143RAB-00-10-191111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904016-07 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 10.9 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 11-Nov-2019 12:30	% Solids: 93.2	Date Analyzed : 05-Dec-19 13:57 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.312			IS 13C-2,3,7,8-TCDD	91.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.217			13C-1,2,3,7,8-PeCDD	110	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.534			13C-1,2,3,4,7,8-HxCDD	99.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.600			13C-1,2,3,6,7,8-HxCDD	80.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.588			13C-1,2,3,7,8,9-HxCDD	85.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		1.70		13C-1,2,3,4,6,7,8-HpCDD	96.6	23 - 140	
OCDD	15.7				13C-OCDD	106	17 - 157	
2,3,7,8-TCDF	ND	0.260			13C-2,3,7,8-TCDF	84.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.195			13C-1,2,3,7,8-PeCDF	109	24 - 185	
2,3,4,7,8-PeCDF	ND	0.182			13C-2,3,4,7,8-PeCDF	104	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.266			13C-1,2,3,4,7,8-HxCDF	108	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.267			13C-1,2,3,6,7,8-HxCDF	87.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.318			13C-2,3,4,6,7,8-HxCDF	85.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.388			13C-1,2,3,7,8,9-HxCDF	92.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.391			13C-1,2,3,4,6,7,8-HpCDF	85.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.322			13C-1,2,3,4,7,8,9-HpCDF	94.3	26 - 138	
OCDF	ND	0.433			13C-OCDF	99.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.2	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00471

TOTALS			
Total TCDD	ND	0.312	
Total PeCDD	ND	0.217	
Total HxCDD	ND	0.600	
Total HpCDD	2.24		3.94
Total TCDF	ND	0.260	
Total PeCDF	ND	0.195	
Total HxCDF	ND	0.388	
Total HpCDF	2.04		

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-143RAB-10-20-191111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904016-08 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 10.9 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 11-Nov-2019 14:05	% Solids: 91.6	Date Analyzed: 12-Dec-19 05:56 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.960		D	IS 13C-2,3,7,8-TCDD	60.3	25 - 164	D
1,2,3,7,8-PeCDD	ND	1.64		D	13C-1,2,3,7,8-PeCDD	56.4	25 - 181	D
1,2,3,4,7,8-HxCDD	ND	1.29		D	13C-1,2,3,4,7,8-HxCDD	61.1	32 - 141	D
1,2,3,6,7,8-HxCDD	ND	1.54		D	13C-1,2,3,6,7,8-HxCDD	57.2	28 - 130	D
1,2,3,7,8,9-HxCDD	ND	1.58		D	13C-1,2,3,7,8,9-HxCDD	56.7	32 - 141	D
1,2,3,4,6,7,8-HpCDD	ND		6.70	D	13C-1,2,3,4,6,7,8-HpCDD	59.0	23 - 140	D
OCDD	90.6			D	13C-OCDD	64.0	17 - 157	D
2,3,7,8-TCDF	ND	0.758		D	13C-2,3,7,8-TCDF	57.7	24 - 169	D
1,2,3,7,8-PeCDF	ND	1.92		D	13C-1,2,3,7,8-PeCDF	54.4	24 - 185	D
2,3,4,7,8-PeCDF	ND	2.11		D	13C-2,3,4,7,8-PeCDF	53.0	21 - 178	D
1,2,3,4,7,8-HxCDF	ND	1.02		D	13C-1,2,3,4,7,8-HxCDF	62.2	26 - 152	D
1,2,3,6,7,8-HxCDF	ND	0.936		D	13C-1,2,3,6,7,8-HxCDF	59.5	26 - 123	D
2,3,4,6,7,8-HxCDF	ND	1.06		D	13C-2,3,4,6,7,8-HxCDF	56.2	28 - 136	D
1,2,3,7,8,9-HxCDF	ND	1.59		D	13C-1,2,3,7,8,9-HxCDF	58.2	29 - 147	D
1,2,3,4,6,7,8-HpCDF	ND	1.42		D	13C-1,2,3,4,6,7,8-HpCDF	57.0	28 - 143	D
1,2,3,4,7,8,9-HpCDF	ND	1.27		D	13C-1,2,3,4,7,8,9-HpCDF	60.8	26 - 138	D
OCDF	4.01			D, J	13C-OCDF	72.7	17 - 157	D
					CRS 37Cl-2,3,7,8-TCDD	96.0	35 - 197	D

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0284

TOTALS								
Total TCDD	ND	0.960						
Total PeCDD	ND	1.64						
Total HxCDD	ND	1.48						
Total HpCDD	ND		12.8					
Total TCDF	ND	0.758						
Total PeCDF	ND	2.02						
Total HxCDF	ND	1.13						
Total HpCDF	ND	1.35						

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-143RAB-20-31.1-191111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904016-09 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 11.2 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 11-Nov-2019 15:30	% Solids: 90.6	Date Analyzed : 05-Dec-19 15:33 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.263			IS 13C-2,3,7,8-TCDD	98.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.284			13C-1,2,3,7,8-PeCDD	110	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.461			13C-1,2,3,4,7,8-HxCDD	104	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.768		13C-1,2,3,6,7,8-HxCDD	88.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.522			13C-1,2,3,7,8,9-HxCDD	93.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	21.9				13C-1,2,3,4,6,7,8-HpCDD	90.0	23 - 140	
OCDD	183				13C-OCDD	102	17 - 157	
2,3,7,8-TCDF	ND	0.381			13C-2,3,7,8-TCDF	94.5	24 - 169	
1,2,3,7,8-PeCDF	0.697			J	13C-1,2,3,7,8-PeCDF	118	24 - 185	
2,3,4,7,8-PeCDF	ND		0.459		13C-2,3,4,7,8-PeCDF	116	21 - 178	
1,2,3,4,7,8-HxCDF	2.21			J	13C-1,2,3,4,7,8-HxCDF	118	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.762		13C-1,2,3,6,7,8-HxCDF	96.6	26 - 123	
2,3,4,6,7,8-HxCDF	0.656			J	13C-2,3,4,6,7,8-HxCDF	86.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.455			13C-1,2,3,7,8,9-HxCDF	95.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	6.10				13C-1,2,3,4,6,7,8-HpCDF	83.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.742			13C-1,2,3,4,7,8,9-HpCDF	89.0	26 - 138	
OCDF	12.8				13C-OCDF	100	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	94.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.646

TOTALS								
Total TCDD	ND	0.263						
Total PeCDD	ND		0.386					
Total HxCDD	5.74		6.50					
Total HpCDD	54.7							
Total TCDF	ND	0.381						
Total PeCDF	6.17		9.77					
Total HxCDF	9.30		11.3					
Total HpCDF	6.10		11.9					

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: Aqueous		QC Batch: B9K0146			Lab Sample: B9K0146-BLK1			
Sample Size: 1.00 L		Date Extracted: 18-Nov-2019 7:00			Date Analyzed: 23-Nov-19 01:03 Column: ZB-50			
Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	4.68			IS 13C6-Lindane (gamma-BHC)	83.0	11 - 120	
Aldrin	ND	2.33			IS 13C12-Aldrin	87.5	5 - 120	
Oxychlordane	ND	8.33			IS 13C10-Oxychlordane	91.0	23 - 135	
trans-Chlordane (gamma)	ND	8.36			IS 13C10-trans-Chlordane (gamma)	85.2	21 - 132	
trans-Nonachlor	ND	8.02			IS 13C10-trans-Nonachlor	84.5	14 - 136	
cis-Chlordane (alpha)	ND	8.20			IS 13C12-2,4'-DDE	80.6	47 - 160	
2,4'-DDE	ND	2.53			IS 13C12-4,4'-DDE	90.3	47 - 160	
4,4'-DDE	ND	2.89			IS 13C12-Dieldrin	89.7	40 - 151	
Dieldrin	ND	2.85			IS 13C10-cis-Nonachlor	88.0	36 - 139	
cis-Nonachlor	ND	5.45			IS 13C12-2,4'-DDD	108	5 - 199	
2,4'-DDD	ND	2.80			IS 13C12-2,4'-DDT	104	5 - 199	
2,4'-DDT	ND	4.39			IS 13C12-4,4'-DDD	112	5 - 120	
4,4'-DDD	ND	2.97			IS 13C12-4,4'-DDT	110	5 - 120	
4,4'-DDT	ND	4.99						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL - Lower control limit - upper control limit

Sample ID: OPR **EPA Method 1699**

Matrix: Aqueous	QC Batch: B9K0146	Lab Sample: B9K0146-BS1
Sample Size: 1.00 L	Date Extracted: 18-Nov-2019 7:00	Date Analyzed: 22-Nov-19 22:36 Column: ZB-50

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
Lindane (gamma-BHC)	1150	1000	115	50 - 120	IS 13C6-Lindane (gamma-BHC)	78.4	5 - 124
Aldrin	1130	1000	113	50 - 120	IS 13C12-Aldrin	73.2	5 - 126
Oxychlordane	1170	1000	117	50 - 120	IS 13C10-Oxychlordane	87.0	5 - 144
trans-Chlordane (gamma)	1050	1000	105	50 - 120	IS 13C10-trans-Chlordane (gamma)	86.3	15 - 144
trans-Nonachlor	1090	1000	109	50 - 120	IS 13C10-trans-Nonachlor	82.9	13 - 149
cis-Chlordane (alpha)	968	1000	96.8	50 - 120	IS 13C12-2,4'-DDE	75.5	26 - 169
2,4'-DDE	1130	1000	113	24 - 123	IS 13C12-4,4'-DDE	86.2	26 - 169
4,4'-DDE	1100	1000	110	50 - 120	IS 13C12-Dieldrin	84.5	19 - 161
Dieldrin	1110	1000	111	50 - 120	IS 13C10-cis-Nonachlor	88.1	17 - 154
cis-Nonachlor	1080	1000	108	50 - 120	IS 13C12-2,4'-DDD	101	14 - 200
2,4'-DDD	1100	1000	110	50 - 120	IS 13C12-2,4'-DDT	104	14 - 200
2,4'-DDT	1140	1000	114	50 - 120	IS 13C12-4,4'-DDD	109	14 - 200
4,4'-DDD	1070	1000	107	42 - 120	IS 13C12-4,4'-DDT	117	13 - 200
4,4'-DDT	1070	1000	107	50 - 120			

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-FB-1911121146

EPA Method 1699

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	QC Water	Lab Sample:	1904016-01	Date Received:	15-Nov-2019 8:54
Project:	Gasco PDI	Sample Size:	0.992 L	QC Batch:	B9K0146	Date Extracted:	18-Nov-2019 7:00
Date Collected:	12-Nov-2019 11:46			Date Analyzed:	23-Nov-19 02:43	Column:	ZB-50
Location:	001						

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	5.03			IS 13C6-Lindane (gamma-BHC)	77.9	11 - 120	
Aldrin	ND	2.06			IS 13C12-Aldrin	79.2	5 - 120	
Oxychlordane	ND	7.37			IS 13C10-Oxychlordane	88.9	23 - 135	
trans-Chlordane (gamma)	ND	6.82			IS 13C10-trans-Chlordane (gamma)	79.8	21 - 132	
trans-Nonachlor	ND	6.33			IS 13C10-trans-Nonachlor	78.1	14 - 136	
cis-Chlordane (alpha)	ND	6.47			IS 13C12-2,4'-DDE	79.2	47 - 160	
2,4'-DDE	ND	2.15			IS 13C12-4,4'-DDE	85.0	47 - 160	
4,4'-DDE	ND	2.67			IS 13C12-Dieldrin	83.8	40 - 151	
Dieldrin	ND	3.37			IS 13C10-cis-Nonachlor	77.5	36 - 139	
cis-Nonachlor	ND	6.92			IS 13C12-2,4'-DDD	101	5 - 199	
2,4'-DDD	ND	3.30			IS 13C12-2,4'-DDT	97.7	5 - 199	
2,4'-DDT	ND	5.51			IS 13C12-4,4'-DDD	104	5 - 120	
4,4'-DDD	ND	3.63			IS 13C12-4,4'-DDT	104	5 - 120	
4,4'-DDT	ND	6.83						

DL - Sample specific estimated detection limit

LCL-UCL - Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

Sample ID: PDI-RB-1911120944

EPA Method 1699

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	QC Water	Lab Sample:	1904016-02
Project:	Gasco PDI	Sample Size:	0.989 L	Date Received:	15-Nov-2019 8:54
Date Collected:	12-Nov-2019 9:44			QC Batch:	B9K0146
Location:	002			Date Analyzed:	23-Nov-19 03:32 Column: ZB-50
Date Extracted:					18-Nov-2019 7:00

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	6.55			IS 13C6-Lindane (gamma-BHC)	76.4	11 - 120	
Aldrin	ND	2.85			IS 13C12-Aldrin	73.3	5 - 120	
Oxychlordane	ND	11.9			IS 13C10-Oxychlordane	79.1	23 - 135	
trans-Chlordane (gamma)	ND	9.26			IS 13C10-trans-Chlordane (gamma)	78.9	21 - 132	
trans-Nonachlor	ND	8.23			IS 13C10-trans-Nonachlor	78.9	14 - 136	
cis-Chlordane (alpha)	ND	8.40			IS 13C12-2,4'-DDE	82.8	47 - 160	
2,4'-DDE	ND	2.50			IS 13C12-4,4'-DDE	85.4	47 - 160	
4,4'-DDE	ND	3.20			IS 13C12-Dieldrin	84.8	40 - 151	
Dieldrin	ND		4.37		IS 13C10-cis-Nonachlor	76.8	36 - 139	
cis-Nonachlor	ND	8.94			IS 13C12-2,4'-DDD	105	5 - 199	
2,4'-DDD	ND	3.39			IS 13C12-2,4'-DDT	98.8	5 - 199	
2,4'-DDT	ND	5.82			IS 13C12-4,4'-DDD	105	5 - 120	
4,4'-DDD	ND	3.58			IS 13C12-4,4'-DDT	105	5 - 120	
4,4'-DDT	ND	5.94						

DL - Sample specific estimated detection limit

LCL-UCL - Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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-140RAB-00-10-191108

EPA Method 1699

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904016-03
Project:	Gasco PDI	Sample Size:	1.23 g	QC Batch:	B9K0170
Date Collected:	08-Nov-2019 11:40	% Solids:	81.8	Date Received:	15-Nov-2019 8:54
Location:	003			Date Extracted:	19-Nov-2019 7:27
				Date Analyzed:	23-Nov-19 11:52 Column: ZB-50

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	5.81			IS 13C6-Lindane (gamma-BHC)	69.3	11 - 120	
Aldrin	ND	3.54			IS 13C12-Aldrin	66.8	5 - 120	
Oxychlordane	ND	12.5			IS 13C10-Oxychlordane	69.4	23 - 135	
trans-Chlordane (gamma)	ND	9.85			IS 13C10-trans-Chlordane (gamma)	70.7	21 - 132	
trans-Nonachlor	ND	9.81			IS 13C10-trans-Nonachlor	69.9	14 - 136	
cis-Chlordane (alpha)	ND	10.0			IS 13C12-2,4'-DDE	73.6	47 - 160	
2,4'-DDE	ND		4.92		IS 13C12-4,4'-DDE	73.8	47 - 160	
4,4'-DDE	448				IS 13C12-Dieldrin	72.0	40 - 151	
Dieldrin	12.2			J	IS 13C10-cis-Nonachlor	72.7	36 - 139	
cis-Nonachlor	ND	9.21			IS 13C12-2,4'-DDD	80.5	5 - 199	
2,4'-DDD	34.8			J	IS 13C12-2,4'-DDT	80.2	5 - 199	
2,4'-DDT	85.0				IS 13C12-4,4'-DDD	88.5	5 - 120	
4,4'-DDD	132				IS 13C12-4,4'-DDT	87.6	5 - 120	
4,4'-DDT	1140							

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-140RAB-10-12.7-191108

EPA Method 1699

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904016-04
Project:	Gasco PDI	Sample Size:	1.26 g	QC Batch:	B9K0170
Date Collected:	08-Nov-2019 12:15	% Solids:	80.5	Date Received:	15-Nov-2019 8:54
Location:	004			Date Analyzed:	23-Nov-19 12:42
				Column:	ZB-50

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	3.22			IS 13C6-Lindane (gamma-BHC)	87.8	11 - 120	
Aldrin	ND	2.00			IS 13C12-Aldrin	82.7	5 - 120	
Oxychlordane	ND	6.96			IS 13C10-Oxychlordane	85.7	23 - 135	
trans-Chlordane (gamma)	ND		16.5		IS 13C10-trans-Chlordane (gamma)	82.4	21 - 132	
trans-Nonachlor	18.3			J	IS 13C10-trans-Nonachlor	79.5	14 - 136	
cis-Chlordane (alpha)	21.4			J	IS 13C12-2,4'-DDE	83.6	47 - 160	
2,4'-DDE	6.74			J	IS 13C12-4,4'-DDE	85.2	47 - 160	
4,4'-DDE	257				IS 13C12-Dieldrin	86.1	40 - 151	
Dieldrin	15.5			J	IS 13C10-cis-Nonachlor	87.5	36 - 139	
cis-Nonachlor	ND	8.24			IS 13C12-2,4'-DDD	106	5 - 199	
2,4'-DDD	36.3			J	IS 13C12-2,4'-DDT	105	5 - 199	
2,4'-DDT	85.1				IS 13C12-4,4'-DDD	112	5 - 120	
4,4'-DDD	129				IS 13C12-4,4'-DDT	116	5 - 120	
4,4'-DDT	848							

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-141RAB-00-10-191107

EPA Method 1699

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904016-05
Project:	Gasco PDI	Sample Size:	1.11 g	QC Batch:	B9K0170
Date Collected:	07-Nov-2019 15:15	% Solids:	91.5	Date Received:	15-Nov-2019 8:54
Location:	005			Date Extracted:	19-Nov-2019 7:27
				Date Analyzed:	23-Nov-19 13:31 Column: ZB-50

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	17.2			J	IS 13C6-Lindane (gamma-BHC)	88.2	11 - 120	
Aldrin	11.7			J	IS 13C12-Aldrin	69.0	5 - 120	
Oxychlordane	15.7			J	IS 13C10-Oxychlordane	74.6	23 - 135	
trans-Chlordane (gamma)	408				IS 13C10-trans-Chlordane (gamma)	72.6	21 - 132	
trans-Nonachlor	179				IS 13C10-trans-Nonachlor	74.6	14 - 136	
cis-Chlordane (alpha)	304				IS 13C12-2,4'-DDE	76.8	47 - 160	
2,4'-DDE	24.7			J	IS 13C12-4,4'-DDE	76.7	47 - 160	
4,4'-DDE	302				IS 13C12-Dieldrin	75.0	40 - 151	
Dieldrin	329				IS 13C10-cis-Nonachlor	73.4	36 - 139	
cis-Nonachlor	56.6				IS 13C12-2,4'-DDD	88.9	5 - 199	
2,4'-DDD	317				IS 13C12-2,4'-DDT	88.3	5 - 199	
2,4'-DDT	325				IS 13C12-4,4'-DDD	98.1	5 - 120	
4,4'-DDD	1140				IS 13C12-4,4'-DDT	94.0	5 - 120	
4,4'-DDT	2130							

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-141RAB-10-17.7-191107

EPA Method 1699

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904016-06	Date Received:	15-Nov-2019 8:54
Project:	Gasco PDI	Sample Size:	1.19 g	QC Batch:	B9L0270	Date Extracted:	27-Dec-2019 6:22
Date Collected:	07-Nov-2019 16:45	% Solids:	83.9	Date Analyzed:	01-Feb-20 17:59	Column:	ZB-50
Location:	006						

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	353		D	IS 13C6-Lindane (gamma-BHC)	96.5	11 - 120	D
Aldrin	ND	70.6		D	IS 13C12-Aldrin	92.9	5 - 120	D
Oxychlordane	ND	483		D	IS 13C10-Oxychlordane	67.6	23 - 135	D
trans-Chlordane (gamma)	ND	323		D	IS 13C10-trans-Chlordane (gamma)	86.0	21 - 132	D
trans-Nonachlor	ND	273		D	IS 13C10-trans-Nonachlor	91.1	14 - 136	D
cis-Chlordane (alpha)	ND	265		D	IS 13C12-2,4'-DDE	92.0	47 - 160	D
2,4'-DDE	987			D, J	IS 13C12-4,4'-DDE	91.9	47 - 160	D
4,4'-DDE	3960			D	IS 13C12-Dieldrin	85.1	40 - 151	D
Dieldrin	ND		144	D	IS 13C10-cis-Nonachlor	81.2	36 - 139	D
cis-Nonachlor	ND	400		D	IS 13C12-2,4'-DDD	22.1	5 - 199	D
2,4'-DDD	17800			D	IS 13C12-2,4'-DDT	85.2	5 - 199	D
2,4'-DDT	1930			D	IS 13C12-4,4'-DDD	52.9	5 - 120	D
4,4'-DDD	53000			D	IS 13C12-4,4'-DDT	82.3	5 - 120	D
4,4'-DDT	7880			D				

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-143RAB-00-10-191111

EPA Method 1699

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904016-07	Date Received:	15-Nov-2019 8:54
Project:	Gasco PDI	Sample Size:	1.08 g	QC Batch:	B9K0170	Date Extracted:	19-Nov-2019 7:27
Date Collected:	11-Nov-2019 12:30	% Solids:	93.2	Date Analyzed:	23-Nov-19 14:21	Column:	ZB-50
Location:	007						

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	4.47			IS 13C6-Lindane (gamma-BHC)	84.2	11 - 120	
Aldrin	ND	3.53			IS 13C12-Aldrin	76.5	5 - 120	
Oxychlordane	ND	11.5			IS 13C10-Oxychlordane	89.5	23 - 135	
trans-Chlordane (gamma)	ND	9.67			IS 13C10-trans-Chlordane (gamma)	88.7	21 - 132	
trans-Nonachlor	ND	9.45			IS 13C10-trans-Nonachlor	83.8	14 - 136	
cis-Chlordane (alpha)	ND	9.65			IS 13C12-2,4'-DDE	83.9	47 - 160	
2,4'-DDE	ND	2.47			IS 13C12-4,4'-DDE	86.8	47 - 160	
4,4'-DDE	14.7			J	IS 13C12-Dieldrin	87.4	40 - 151	
Dieldrin	ND	5.07			IS 13C10-cis-Nonachlor	85.3	36 - 139	
cis-Nonachlor	ND	9.69			IS 13C12-2,4'-DDD	99.4	5 - 199	
2,4'-DDD	21.1			J	IS 13C12-2,4'-DDT	93.0	5 - 199	
2,4'-DDT	12.0			J	IS 13C12-4,4'-DDD	105	5 - 120	
4,4'-DDD	58.3				IS 13C12-4,4'-DDT	100	5 - 120	
4,4'-DDT	91.8							

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-143RAB-10-20-191111

EPA Method 1699

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904016-08	Date Received:	15-Nov-2019 8:54
Project:	Gasco PDI	Sample Size:	1.12 g	QC Batch:	B9K0170	Date Extracted:	19-Nov-2019 7:27
Date Collected:	11-Nov-2019 14:05	% Solids:	91.6	Date Analyzed:	23-Nov-19 15:10	Column:	ZB-50
Location:	008						

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	4.19			IS 13C6-Lindane (gamma-BHC)	80.3	11 - 120	
Aldrin	ND	2.18			IS 13C12-Aldrin	77.7	5 - 120	
Oxychlordane	ND	7.67			IS 13C10-Oxychlordane	89.8	23 - 135	
trans-Chlordane (gamma)	33.2			J	IS 13C10-trans-Chlordane (gamma)	85.5	21 - 132	
trans-Nonachlor	11.5			J	IS 13C10-trans-Nonachlor	83.2	14 - 136	
cis-Chlordane (alpha)	30.4			J	IS 13C12-2,4'-DDE	83.5	47 - 160	
2,4'-DDE	ND		4.04		IS 13C12-4,4'-DDE	87.0	47 - 160	
4,4'-DDE	76.9				IS 13C12-Dieldrin	85.6	40 - 151	
Dieldrin	23.1			J	IS 13C10-cis-Nonachlor	84.0	36 - 139	
cis-Nonachlor	ND	8.27			IS 13C12-2,4'-DDD	96.2	5 - 199	
2,4'-DDD	96.5				IS 13C12-2,4'-DDT	89.7	5 - 199	
2,4'-DDT	58.6				IS 13C12-4,4'-DDD	99.3	5 - 120	
4,4'-DDD	283				IS 13C12-4,4'-DDT	93.2	5 - 120	
4,4'-DDT	420							

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-143RAB-20-31.1-191111

EPA Method 1699

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904016-09
Project:	Gasco PDI	Sample Size:	1.11 g	QC Batch:	B9K0170
Date Collected:	11-Nov-2019 15:30	% Solids:	90.6	Date Received:	15-Nov-2019 8:54
Location:	009			Date Extracted:	19-Nov-2019 7:27
				Date Analyzed:	23-Nov-19 16:00 Column: ZB-50

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	4.81			IS 13C6-Lindane (gamma-BHC)	79.5	11 - 120	
Aldrin	19.5			J	IS 13C12-Aldrin	62.6	5 - 120	
Oxychlordane	ND	12.4			IS 13C10-Oxychlordane	70.1	23 - 135	
trans-Chlordane (gamma)	127				IS 13C10-trans-Chlordane (gamma)	70.5	21 - 132	
trans-Nonachlor	56.5				IS 13C10-trans-Nonachlor	70.8	14 - 136	
cis-Chlordane (alpha)	126				IS 13C12-2,4'-DDE	74.4	47 - 160	
2,4'-DDE	51.8				IS 13C12-4,4'-DDE	74.4	47 - 160	
4,4'-DDE	611				IS 13C12-Dieldrin	73.2	40 - 151	
Dieldrin	189				IS 13C10-cis-Nonachlor	73.6	36 - 139	
cis-Nonachlor	ND	12.2			IS 13C12-2,4'-DDD	80.4	5 - 199	
2,4'-DDD	960				IS 13C12-2,4'-DDT	73.0	5 - 199	
2,4'-DDT	211				IS 13C12-4,4'-DDD	86.2	5 - 120	
4,4'-DDD	2790				IS 13C12-4,4'-DDT	75.4	5 - 120	
4,4'-DDT	1090							

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-20191112-150117

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

Project: Gasco PDI

Sample Custodian: SN

1605 Cornwall Avenue, Bellingham, WA 98225

Client: NW Natural

1904016 2.0°C, 2.4°C

Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-FB-1911121146	FB	WQ	11/12/2019	11:46	4	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
002	PDI-RB-1911120944	RB	WQ	11/12/2019	9:44	4	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
003	PDI-140RAB-00-10-191108	N	SO	11/08/2019	11:40	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
004	PDI-140RAB-10-12.7-191108	N	SO	11/08/2019	12:15	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
005	PDI-141RAB-00-10-191107	N	SO	11/07/2019	15:15	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
006	PDI-141RAB-10-17.7-191107	N	SO	11/07/2019	16:45	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
007	PDI-143RAB-00-10-191111	N	SO	11/11/2019	12:30	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: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: <i>Sasha Norwood</i>	Print Name: <i>Marissa Sparks</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>Anchor OEA</i>	Company: <i>V&I</i>	Company:	Company:	Company:	Company:
Date/Time: <i>12/14/19 @ 12:22</i>	Date/Time: <i>11/15/19 08:54</i>	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: VISTA-20191112-150117

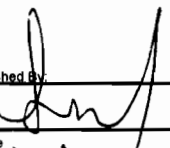
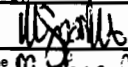
POC: * Delaney Peterson (360-715-2707)
 1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

1904016

Sample Custodian: SN
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
008	PDI-143RAB-10-20-191111	N	SO	11/11/2019	14:05	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
009	PDI-143RAB-20-31.1-191111	N	SO	11/11/2019	15:30	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 Sasha Narwood	Print Name Marissa Sparks	Print Name	Print Name	Print Name	Print Name
Company Anchor QEA	Company V&L	Company	Company	Company	Company
Date/Time 11/14/19 1222	Date/Time 11/15/19 0854	Date/Time	Date/Time	Date/Time	Date/Time

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 1904016

 TAT STO

Samples Arrival:	Date/Time 11/15/19 0854	Initials: WWS	Location: WR-2
			Shelf/Rack: N/A
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: 2.9 (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N		Thermometer ID: IR-3
Temp °C: 2.9 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>1 of 2</u> Trk # <u>7769 9171 1672</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
			<input checked="" type="checkbox"/> Return
Chain of Custody / Sample Documentation Present? <u>COC in cooler 2 of 2</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holding Time Acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Logged In:	Date/Time 11/15/19 0944	Initials: WWS	Location: WR-2
			Shelf/Rack: B-1, 2-1
COC Anomaly/Sample Acceptance Form completed?			<input type="checkbox"/>
			<input checked="" type="checkbox"/>
			<input checked="" type="checkbox"/>

Comments:

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 1904016

 TAT std

Samples Arrival:	Date/Time 11/15/19 0854	Initials: WWS	Location: WR-2
			Shelf/Rack: N/A
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: 2.4 (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N		Thermometer ID: IR-3
Temp °C: 2.4 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>2 of 2</u> Trk # <u>7762 9171 0600</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
			<input checked="" type="checkbox"/> Return
			<input type="checkbox"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time 11/15/19 0944	Initials: WWS	Location: WR-2
			Shelf/Rack: B-1, 8-1
COC Anomaly/Sample Acceptance Form completed?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 1904016

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	Sample BaseMatrix Comments
1904016-01 A	PDI-FB-1911121146	<input checked="" type="checkbox"/> C2	12-Nov-19 11:46 <input checked="" type="checkbox"/>	Amber Glass NM Bottle, 1L	Aqueous
1904016-01 B	PDI-FB-1911121146	<input checked="" type="checkbox"/> C1 HOG 11/15/19	12-Nov-19 11:46 <input checked="" type="checkbox"/>	Amber Glass NM Bottle, 1L	Aqueous
1904016-01 C	PDI-FB-1911121146	<input checked="" type="checkbox"/> C1 HOG 11/15/19	12-Nov-19 11:46 <input checked="" type="checkbox"/>	Amber Glass NM Bottle, 1L	Aqueous
1904016-01 D	PDI-FB-1911121146	<input checked="" type="checkbox"/> C1	12-Nov-19 11:46 <input checked="" type="checkbox"/>	Amber Glass NM Bottle, 1L	Aqueous
1904016-02 A	PDI-RB-1911120944	<input checked="" type="checkbox"/> C2	12-Nov-19 09:44 <input checked="" type="checkbox"/>	Amber Glass NM Bottle, 1L	Aqueous
1904016-02 B	PDI-RB-1911120944	<input checked="" type="checkbox"/> C1	12-Nov-19 09:44 <input checked="" type="checkbox"/>	Amber Glass NM Bottle, 1L	Aqueous
1904016-02 C	PDI-RB-1911120944	<input checked="" type="checkbox"/> C2	12-Nov-19 09:44 <input checked="" type="checkbox"/>	Amber Glass NM Bottle, 1L	Aqueous
1904016-02 D	PDI-RB-1911120944	<input checked="" type="checkbox"/> C1	12-Nov-19 09:44 <input checked="" type="checkbox"/>	Amber Glass NM Bottle, 1L	Aqueous
1904016-03 A	PDI-140RAB-00-10-191108	<input checked="" type="checkbox"/> C1	08-Nov-19 11:40 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-03 B	PDI-140RAB-00-10-191108	<input checked="" type="checkbox"/> C2	08-Nov-19 11:40 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-04 A	PDI-140RAB-10-12.7-191108	<input checked="" type="checkbox"/> C1	08-Nov-19 12:15 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-04 B	PDI-140RAB-10-12.7-191108	<input checked="" type="checkbox"/> C1	08-Nov-19 12:15 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-05 A	PDI-141RAB-00-10-191107	<input checked="" type="checkbox"/> C1	07-Nov-19 15:15 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-05 B	PDI-141RAB-00-10-191107	<input checked="" type="checkbox"/> C2	07-Nov-19 15:15 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-06 A	PDI-141RAB-10-17.7-191107	<input checked="" type="checkbox"/> C2	07-Nov-19 16:45 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-06 B	PDI-141RAB-10-17.7-191107	<input checked="" type="checkbox"/> C2	07-Nov-19 16:45 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-07 A	PDI-143RAB-00-10-191111	<input checked="" type="checkbox"/> C2	11-Nov-19 12:30 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-07 B	PDI-143RAB-00-10-191111	<input checked="" type="checkbox"/> C2	11-Nov-19 12:30 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-08 A	PDI-143RAB-10-20-191111	<input checked="" type="checkbox"/> C1	11-Nov-19 14:05 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-08 B	PDI-143RAB-10-20-191111	<input checked="" type="checkbox"/> C2	11-Nov-19 14:05 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-09 A	PDI-143RAB-20-31.1-191111	<input checked="" type="checkbox"/> C2 HOG 11/15/19	11-Nov-19 15:30 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
1904016-09 B	PDI-143RAB-20-31.1-191111	<input checked="" type="checkbox"/> C2	11-Nov-19 15:30 <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?	✓		
Sample Custody Seals Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		
Preservation Documented: Na2S2O3 Trizma <u>None</u> Other		✓	✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓

Comments:

C1 = Cooler 1
C2 = Cooler 2

Verified by/Date: HOG 11/15/19

EXTRACTION INFORMATION

PRIORITY

Process Sheet

Workorder: **1904016**

29-Nov-19

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

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

TAT: 2414

Method: **1613 Full List**
Matrix: **Aqueous**
Client Matrix: **QC Water**
Also run: **Percent Solids**

Prep Batch: BAK02S3

Prep Data Entered: 11/29/19 TL
Date and Initials

Initial Sequence: S9L0009

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1904016-01	<input checked="" type="checkbox"/>	PDI-FB-1911121146	15-Nov-19 08:54	WR-2 B-1	
1904016-02	<input checked="" type="checkbox"/>	PDI-RB-1911120944	15-Nov-19 08:54	WR-2 B-0	

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

Pre-Prep Check Out: NA

Prep Check Out: 11/26/19

Prep Reconciled Initials/Date: W 11/26/19

Pre-Prep Check In: NA

Prep Check In: NA

Spike Reconciled Initials/Date: AO 11/26/19

VialBoxID: 6iml

PREPARATION BENCH SHEET

B9K0253

Matrix: Aqueous

Method: 1613 Full List

Method: 1613 2.3.7.8s Only

Method: 8290 2.3.7.8s Only

Chemist: KL

Prep Date/Time: 26-Nov-19

Prepared using: HRMS - Separatory Funnel

VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B9K0253-BLK1	NA	NA	(1.00)	KL AO 11/26/19	KL AO 11/26/19	NA	KL 11/27/19	KL 11/27/19	KL 11/27/19	TL-DF 11/27/19
B9K0253-BS1	NA	NA	(1.00)	T	T	T	T	T	T	T
B9K0253-MS1 1903905-01	⑦ 1492.81	503.75	0.98656	T	T	T	T	T	T	T
B9K0253-MSD1 1903905-01	⑦ 1504.69	503.93	1.00076	T	T	T	T	T	T	T
1903905-01	⑦ 1502.32	503.16	0.99916	T	T	T	T	T	T	T
1903905-02	⑦ 1494.37	505.32	0.98905	T	T	T	T	T	T	T
1903905-03	⑦ 1497.66	507.49	0.99017	T	T	T	T	T	T	T
1903905-04	1521.02	503.00	1.01802	T	T	T	T	T	T	T
1903905-05	1522.73	509.14	1.01359	T	T	T	T	T	T	T
1903908-01	1549.67	503.05	1.04662	T	T	T	T	T	T	T
1903921-01	1555.63	508.42	1.04721	T	T	T	T	T	T	T
1904016-01	1545.20	504.65	1.04055	T	T	T	T	T	T	T
1904016-02	1531.20	505.41	1.02579	T	T	T	T	T	T	T

⑦ AO 11/26/19

IS Name <u>V2</u>	NS Name <u>V3</u>	CRS Name <u>V6</u>	RS Name <u>V6</u>	Cycle Time	APP: <u>SEFUN</u> SOX SDS	Check Out: <u>KL 11/26/19</u>
PCDD/F <u>19C1A02, 10_{uL}</u>	PCDD/F <u>18F413, 10_{uL}</u>	PCDD/F <u>19I1602, 10_{uL}</u>	PCDD/F <u>19T1603, 10_{uL}</u>	Start Date/Time: <u>NA</u>	SOLV: <u>DCM</u>	Check In: <u>NA</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time: <u>NA</u>	Other: <u>NA</u>	Chemist/Date: <u>NA</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s): <u>C14</u>	Balance ID: <u>HRMS-10</u>	
					<u>20_{uL}</u>	

Comments: Assume 1 g = 1 mL

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

- 5 = Sample Centrifuged to remove particulate
- 6 = Added boiling chips to separatory funnel
- 7 = Sample emulsed during shakeout

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9K0252

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

Inst HQMS-10

Date/Time IN: Date/Time OUT

11/26/19 11/27/19
08:30 1446 *KL11/26/19

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	KL 11/26/19		NA		Sample Homogenized*
			Pan Tare Wt. (gms)	KL 11/26/19					KL 11/26/19	KL 11/26/19	KL 11/26/19	KL 11/26/19	
	1903905-01	A	Sample	1.28	* 7.96 5.35	1.28	KL 11/26/19	clear	0	5	KL 11/26/19	KL 11/26/19	
	1903905-02	A	Sample	1.27	8.86	1.28		0	5				
	1903905-03	A	Sample	1.30	9.84	1.30		0	5				
	1903905-04	A	Sample	1.29	12.40	1.29		0	5				
	1903905-05	A	Sample	1.28	7.74	1.28		0	5				
	1903908-01	A	Sample	1.29	9.78	1.29		0	6				
	1903921-01	A	Sample	1.28	8.11	1.32		0	7				
	1904016-01RE1	B	Sample	1.30	6.74	1.30		0	5				
	1904016-02RE1	B	Sample	1.31	6.72	1.51		0	5				
	1903905-1	B		1.30	12.99	1.30 + 28 <u>KL 11/26/19</u>		0	5				
	1903905-1	C		1.28	11.93	1.28 + 27 <u>KL 11/26/19</u>	0	5					

*Sample homogenized in sample container unless otherwise noted.

Batch: B9K0253

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903905-01	0.99916 /			20 /	26-Nov-19 06:59	JJC			Groundwater	1613 Full List
1903905-01	0.99916 /			20 /	26-Nov-19 06:59	JJC			Groundwater	1613 2,3,7,8s Only
1903905-01	0.99916 /			20 /	26-Nov-19 06:59	JJC			Groundwater	8290 2,3,7,8s Only
1903905-02	0.98905 /			20 /	26-Nov-19 06:59	JJC			Groundwater	8290 2,3,7,8s Only
1903905-03	0.99017 /			20 /	26-Nov-19 06:59	JJC			Groundwater	8290 2,3,7,8s Only
1903905-04	1.01802 /			20 /	26-Nov-19 06:59	JJC			Groundwater	8290 2,3,7,8s Only
1903905-05	1.01359 /			20 /	26-Nov-19 06:59	JJC			Groundwater	8290 2,3,7,8s Only
1903908-01	1.04662 /			20 /	26-Nov-19 06:59	JJC			Treatment Water	1613 2,3,7,8s Only
1903921-01	1.04721 /			20 /	26-Nov-19 06:59	JJC			Wastewater	1613 Full List
1904016-01	1.04055 /			20 /	26-Nov-19 06:59	JJC			QC Water	1613 Full List
1904016-02	1.02579 /			20 /	26-Nov-19 06:59	JJC			QC Water	1613 Full List
B9K0253-BLK1	1			20 /	26-Nov-19 06:59	JJC				QC
B9K0253-BS1	1			20 /	26-Nov-19 06:59	JJC	18F1913 /	10 /		QC
B9K0253-MS1	0.98656 /			20 /	26-Nov-19 06:59	JJC	18F1913 /	10 /		QC
B9K0253-MSD1	1.00076 /			20 /	26-Nov-19 06:59	JJC	18F1913 /	10 /		QC

All bolded data on report verified against written benchsheet by (initial/date) JL 11/29/19

PRIORITY

Process Sheet

Workorder: **1904016**

29-Nov-19

Prep Expiration: 2020-11-06
Client: Anchor QEA, LLC

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

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

TAT: ~~24~~ 14
Prep Batch: B9 K0170 169
Prep Data Entered: DF 11/21/19
Date and Initials
Initial Sequence: S9L0009

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1904016-03	<input checked="" type="checkbox"/>	PDI-140RAB-00-10-191108	15-Nov-19 08:54	WR-2 A-1	
1904016-04	<input checked="" type="checkbox"/>	PDI-140RAB-10-12.7-191108	15-Nov-19 08:54	WR-2 A-1	
1904016-05	<input checked="" type="checkbox"/>	PDI-141RAB-00-10-191107	15-Nov-19 08:54	WR-2 A-1	
1904016-06	<input checked="" type="checkbox"/>	PDI-141RAB-10-17.7-191107	15-Nov-19 08:54	WR-2 A-1	
1904016-07	<input checked="" type="checkbox"/>	PDI-143RAB-00-10-191111	15-Nov-19 08:54	WR-2 A-1	
1904016-08	<input checked="" type="checkbox"/>	PDI-143RAB-10-20-191111	15-Nov-19 08:54	WR-2 A-1	
1904016-09	<input checked="" type="checkbox"/>	PDI-143RAB-20-31.1-191111	15-Nov-19 08:54	WR-2 A-1	

*DF 11/19/19

WO Comments: ~~Post-Extraction (dry weight) DDT, Aldrin, Dieldrin, Endrin~~

Dioxin - 10g (dry weight)

~~Pre-Extraction (dry weight)~~

Pre-Prep Check Out: NA

Prep Check Out: DF 11/19/19

Prep Reconciled Initials/Date: DF 11/19/19

Pre-Prep Check In: NA

Prep Check In: DF 11/19/19

Spike Reconciled Initials/Date: TC 11/19/19

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)	11.42	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 SDS</u>	Check Out: Chemist/Date: <u>DF 11/19/19</u>
PCDD/F <u>19C1902, 10mL</u>	PCDD/F <u>18F1913, 10mL</u>	PCDD/F <u>19E1602, 10mL</u>	PCDD/F <u>19T1603, 10mL</u>	Start Date/Time <u>11/19/19</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <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>20mL</u>	
					<u>C14</u>	

Comments:

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

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

① 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	<u>11/19/19 1430</u>	Other <u>NA</u>	Balance ID: <u>HRMS-9</u>
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) <u>20mL</u>	
				<u>11/20/19 631</u>	<u>11/20/19 631</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

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

Inst **HRMS-9** Date/Time IN: **11/18/19 (5.0)** Date/Time OUT: **11/19/19 07:15**

***DF 11/18/19**

Particle Size	SampID	SampType	Initial and Date: DF 11/18/19		Initial and Date: DF 11/19/19		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- Before	pH After	pH Added	Acid Added	
	1904016-03	Sample	1.28	10.85	9.11			clay	NT	NT	NT	NT	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	1.29	7.47	6.47								X
	1904016-07	Sample	1.29	8.54	8.05								X
	1904016-08	Sample	1.28	7.38	6.87								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			clay					X
	1904021-07	Sample	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

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

 11/21/19

PRIORITY

Process Sheet

Workorder: **1904016**

29-Nov-19

Prep Expiration: 2019-11-19
Client: Anchor QEA, LLC

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

TAT: 24 14

Method: **1699 Full List**
Matrix: **Aqueous**
Client Matrix: **QC Water**
Also run: **Percent Solids**

Prep Batch: B9K0146

Prep Data Entered: 11/22/19 JL
Date and Initials

Initial Sequence: S91K0054

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1904016-01	<input checked="" type="checkbox"/>	PDI-FB-1911121146	15-Nov-19 08:54	WR-2 B-1	
1904016-02	<input checked="" type="checkbox"/>	PDI-RB-1911120944	15-Nov-19 08:54	WR-2 B-0	

WO Comments: ~~Post 4g extraction (dry weight), DDX, Aldrin, Dieldrin, Lindane, Dioxin 10g (dry weight), PCB 5g extraction (dry weight)~~

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

Prep Check Out: DF 11/18/19
Prep Check In: NA

Prep Reconciled Initials/Date: DF 11/18/19
Spike Reconciled Initials/Date: ae 11/18/19

VialBoxID: Mashed potatoes

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 1699 Full List

B9K0146

Chemist: DF
 Prep Date/Time: 18-Nov-19

Prepared using: HRMS - Separatory Funnel

VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	Checked AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B9K0146-BLK1	NA	NA	(1.00)	DF 11/20/19	NA	NA	DF 11/20/19	TL 11/21/19	TL 11/21/19	DF TL 11/21/19
B9K0146-BS1	↓	↓	(1.00)	↓	↓	↓	↓	↓	↓	↓
1904016-01	1492.71	506.47	0.99224 ✓	↓	↓	↓	↓	↓	↓	↓
1904016-02	1492.75	503.34	0.98941 ✓	↓	↓	↓	↓	↓	↓	↓

IS Name <u>V6</u>	NS Name <u>V0</u>	CRS Name	RS Name <u>V5</u>	Cycle Time	APF: <u>SEFUN</u> SOX SDS	Check Out: <u>DF 11/18/19</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time: <u>NA</u>	SOLV: <u>DCM</u>	Check In: <u>EMPTY</u>
PCB	PCB	PCB	PCB	Stop Date/Time: <u>NA</u>	Other: <u>NA</u>	Chemist/Date: <u>HRMS-g</u>
PAH	PAH	PAH	PAH		Final Volume(s) <u>20mL</u>	Balance ID: <u>HRMS-g</u>
<u>1699:18D1602, 10mL</u>	<u>18A2304, 10mL</u>	<u>NA</u>	<u>18D1603, 10mL</u>		<u>Cg</u>	

Comments: Assume 1 g = 1 mL

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume
- 5 = Sample Centrifuged to remove particulate
- 6 = Added boiling chips to separatory funnel
- 7 = Sample emulsed during shakeout

Batch: B9K0146

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1904016-01	0.99224 ✓			20 ✓	18-Nov-19 07:00	DFO			QC Water	1699 Full List
1904016-02	0.98941 ✓			20 ✓	18-Nov-19 07:00	DFO			QC Water	1699 Full List
B9K0146-BLK1	1			20 ✓	18-Nov-19 07:00	DFO				QC
B9K0146-BS1	1			20 ✓	18-Nov-19 07:00	DFO	18A2304 ✓	10 ✓		QC

All bolded data on report verified against written benchsheet by (initial/date) 142 11/22/19

Printed: 11/22/2019 9:47:12AM
Page 1 of 1

PRIORITY

Process Sheet

Workorder: **1904016**

29-Nov-19

Prep Expiration: 2020-11-06
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: 11/22/19 JL
Date and Initials

Initial Sequence: S91K0054

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1904016-03	<input checked="" type="checkbox"/>	PDI-140RAB-00-10-191108	15-Nov-19 08:54	WR-2 A-1	
1904016-04	<input checked="" type="checkbox"/>	PDI-140RAB-10-12.7-191108	15-Nov-19 08:54	WR-2 A-1	
1904016-05	<input checked="" type="checkbox"/>	PDI-141RAB-00-10-191107	15-Nov-19 08:54	WR-2 A-1	
1904016-06	<input checked="" type="checkbox"/>	PDI-141RAB-10-17.7-191107	15-Nov-19 08:54	WR-2 A-1	
1904016-07	<input checked="" type="checkbox"/>	PDI-143RAB-00-10-191111	15-Nov-19 08:54	WR-2 A-1	
1904016-08	<input checked="" type="checkbox"/>	PDI-143RAB-10-20-191111	15-Nov-19 08:54	WR-2 A-1	
1904016-09	<input checked="" type="checkbox"/>	PDI-143RAB-20-31.1-191111	15-Nov-19 08:54	WR-2 A-1	

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

~~Dimin 10g (dry weight)~~

~~POB 5g extraction (dry weight)~~

Pre-Prep Check Out: D#11/18/19

Prep Check Out: DF11/19/19

Prep Reconciled Initials/Date: DF11/18/19

Pre-Prep Check In: DF11/18/19

Prep Check In: DF11/19/19

Spike Reconciled Initials/Date: JL 11/19/19

VialBoxID: Mashed 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	KBSG CHEM/ DATE	<i>Shawco</i> AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B9K0170-BLK1	NA	(1.00)	<i>DL 11/19/19</i>	NA	NA	<i>DL 11/20/19</i>	TL 11/21/19	TL 11/21/19	<i>DL 11/21/19</i>
<input type="checkbox"/>	B9K0170-BS1	↓	(1.00)							
<input type="checkbox"/>	1904016-03	1.22	1.23							
<input type="checkbox"/>	1904016-04	1.24	1.26							
<input type="checkbox"/>	1904016-05	1.09	1.11							
<input type="checkbox"/>	1904016-06 <i>(A)</i>	1.19	1.20							
<input type="checkbox"/>	1904016-07	1.07	1.08							
<input type="checkbox"/>	1904016-08	1.09	1.12							
<input type="checkbox"/>	1904016-09	1.10	1.11							
<input type="checkbox"/>	1904021-01 <i>(A)</i>	1.15	1.22							
<input type="checkbox"/>	1904021-02	1.08	1.10							
<input type="checkbox"/>	1904021-03	1.06	1.08							
<input type="checkbox"/>	1904021-04 <i>(A)</i>	1.14	1.23							
<input type="checkbox"/>	1904021-05	1.09	1.10							
<input type="checkbox"/>	1904021-06	1.07	1.08							

IS Name <u>V6</u>	NS Name <u>V0</u>	CRS Name	RS Name <u>V5</u>	Cycle Time	APP: SEFUN <u>(SOX)</u> <u>(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>20 mL</u>		Balance ID: <u>HRMS-9</u>
<u>1699: 18D1603, 10mL</u>	<u>18A2304, 10mL</u>	<u>NA</u>	<u>18D1603, 10mL</u>		<u>C9</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 FV. 1%O deletion 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>Chromacol</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>C9</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

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

Inst **HLMS-9** Date/Time IN: **11/18/19 15:02** Date/Time OUT: **11/19/19 07:13**

***DF 11/18/19**

Particle Size	SampleID	Sample Type	Intial and Date: DF 11/18/19		Date: DF 11/19/19		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	
	1904016-03	Sample	1.28	10.85	9.11			Clay	NA	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	1.29	7.47	6.47								X
	1904016-07	Sample	1.29	8.54	8.05								X
	1904016-08	Sample	1.28	7.38	6.87								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			Clay					X
	1904021-07	Sample	1.28	9.65	9.43			Dirt					X

*Sample homogenized in sample container unless otherwise noted.

****Dirt DF 11/18/19**

Batch: B9K0170

Matrix: Solid

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) JZ 11/22/19

Printed: 11/22/2019 9:31:22AM
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Process Sheet

Rx2

Workorder: 1904016

HC 12-20-19

Prep Expiration: 2020-11-06
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: 6960270

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

Initial Sequence: SDA 0057

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1904016-03	<input type="checkbox"/>	PDI-140RAB-00-10-191108	15-Nov-19 08:54	WR-2 A-1	
1904016-04	<input type="checkbox"/>	PDI-140RAB-10-12.7-191108	15-Nov-19 08:54	WR-2 A-1	
1904016-05	<input type="checkbox"/>	PDI-141RAB-00-10-191107	15-Nov-19 08:54	WR-2 A-1	
1904016-06	<input checked="" type="checkbox"/>	PDI-141RAB-10-17.7-191107	15-Nov-19 08:54	WR-2 A-1	
1904016-07	<input type="checkbox"/>	PDI-143RAB-00-10-191111	15-Nov-19 08:54	WR-2 A-1	
1904016-08	<input type="checkbox"/>	PDI-143RAB-10-20-191111	15-Nov-19 08:54	WR-2 A-1	
1904016-09	<input type="checkbox"/>	PDI-143RAB-20-31.1-191111	15-Nov-19 08:54	WR-2 A-1	

Sx 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

Prep Check Out: TL 12/27/19

Prep Reconciled Initials/Date: TL 12/27/19

Pre-Prep Check In: rk

Prep Check In: TL 12/27/19

Spike Reconciled Initials/Date: AO 12/27/19

VialBoxID: 20120

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 AACHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B9L0270-BLK1	NA	(1.00)	TL00 12/27/19	NA	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)	T	↓	↓	↓	↓	↓	↓
<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	NS Name	CRS Name	RS Name	Cycle Time	APP: SEFUN SOX SDS	Check Out: Chemist/Date: <u>TL 12/27/19</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time <u>12/29/19 14:00</u>	SOLV: <u>70:30 Hex/EtOAc</u>	Check In: Chemist/Date: <u>TL 12/27/19</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>12/28/19 08:10</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>69</u>	BUS 01/07/20 <u>20ul 100ul</u>	
<u>1699 18D1602 50ul</u>	<u>19I 3003 50ul</u>	<u>18D1603, 50ul</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

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-BSI	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) gub 07-01-20

SAMPLE DATA – EPA METHOD 1613

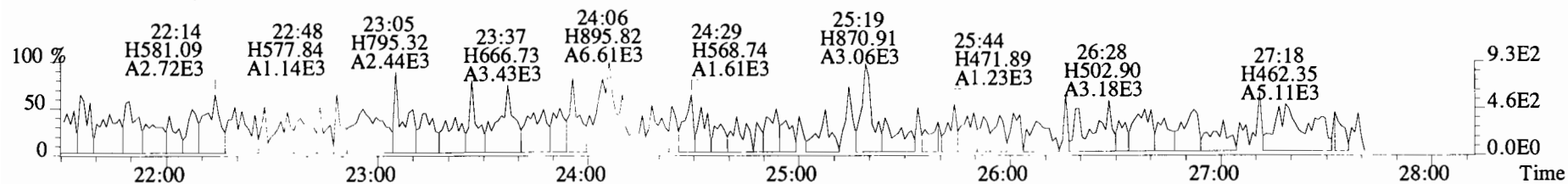
Client ID: Method Blank
Lab ID: B9K0253-BLK1

Filename: 191204D1 S:6 Acq: 4-DEC-19 21:45:53
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

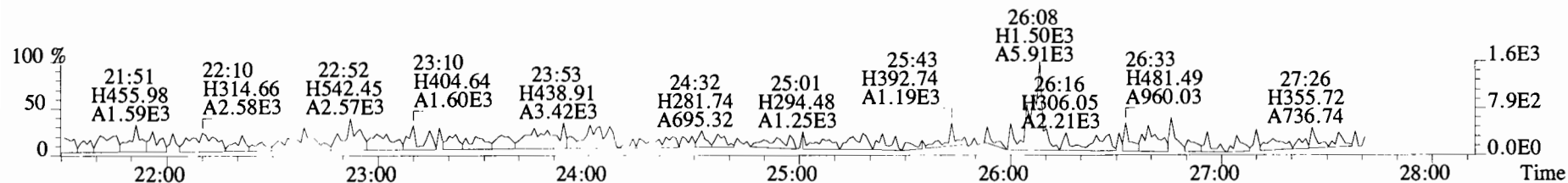
ConCal: ST191204D1-1
EndCAL: ST191204D2-1

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	0.91	NotF η	*		137	2.5	0.864	Total Tetra-Dioxins	*	*		137	0.864
1,2,3,7,8-PeCDD	*	* n	0.90	NotF η	*		177	2.5	0.973	Total Penta-Dioxins	*	*		177	0.973
1,2,3,4,7,8-HxCDD	*	* n	1.10	NotF η	*		111	2.5	1.12	Total Hexa-Dioxins	*	*		111	1.22
1,2,3,6,7,8-HxCDD	*	* n	0.94	NotF η	*		111	2.5	1.27	Total Hepta-Dioxins	*	*		103	1.43
1,2,3,7,8,9-HxCDD	*	* n	0.96	NotF η	*		111	2.5	1.24	Total Tetra-Furans	*	*		175	0.754
1,2,3,4,6,7,8-HpCDD	*	* n	0.98	NotF η	*		103	2.5	1.43	Total Penta-Furans	0.0000	0.0000		250	1.33
OCDD	*	* n	0.96	NotF η	*		94.5	2.5	1.68	Total Hexa-Furans	*	*		134	0.642
										Total Hepta-Furans	*	*		101	0.881
2,3,7,8-TCDF	*	* n	0.95	NotF η	*		175	2.5	0.754						
1,2,3,7,8-PeCDF	*	* n	0.96	NotF η	*		250	2.5	1.38						
2,3,4,7,8-PeCDF	*	* n	1.01	NotF η	*		250	2.5	1.29						
1,2,3,4,7,8-HxCDF	*	* n	1.18	NotF η	*		134	2.5	0.513						
1,2,3,6,7,8-HxCDF	*	* n	1.07	NotF η	*		134	2.5	0.594						
2,3,4,6,7,8-HxCDF	*	* n	1.11	NotF η	*		134	2.5	0.626						
1,2,3,7,8,9-HxCDF	*	* n	1.06	NotF η	*		134	2.5	0.901						
1,2,3,4,6,7,8-HpCDF	*	* n	1.13	NotF η	*		101	2.5	0.935						
1,2,3,4,7,8,9-HpCDF	*	* n	1.28	NotF η	*		101	2.5	0.818						
OCDF	*	* n	0.95	NotF η	*		134	2.5	1.86						
IS										Rec	Qual				
IS	13C-2,3,7,8-TCDD	5.63e+06	0.80	y	1.10	26:06	1960.0			98.0					
IS	13C-1,2,3,7,8-PeCDD	5.14e+06	0.63	y	0.88	30:37	2223.8			111					
IS	13C-1,2,3,4,7,8-HxCDD	3.52e+06	1.26	y	0.64	33:55	1796.3			89.8					
IS	13C-1,2,3,6,7,8-HxCDD	3.98e+06	1.24	y	0.86	34:01	1523.4			76.2					
IS	13C-1,2,3,7,8,9-HxCDD	3.88e+06	1.28	y	0.81	34:19	1576.0			78.8					
IS	13C-1,2,3,4,6,7,8-HpCDD	2.74e+06	1.07	y	0.65	37:47	1375.6			68.8					
IS	13C-OCDD	4.61e+06	0.90	y	0.58	41:02	2607.6			65.2					
IS	13C-2,3,7,8-TCDF	8.22e+06	0.79	y	1.03	25:19	1726.3			86.3					
IS	13C-1,2,3,7,8-PeCDF	8.06e+06	1.62	y	0.85	29:27	2051.9			103					
IS	13C-2,3,4,7,8-PeCDF	7.87e+06	1.57	y	0.85	30:20	2019.1			101					
IS	13C-1,2,3,4,7,8-HxCDF	5.57e+06	0.52	y	0.83	33:02	2196.1			110					
IS	13C-1,2,3,6,7,8-HxCDF	5.57e+06	0.53	y	1.03	33:09	1766.5			88.3					
IS	13C-2,3,4,6,7,8-HxCDF	5.20e+06	0.52	y	0.95	33:45	1787.1			89.4					
IS	13C-1,2,3,7,8,9-HxCDF	4.20e+06	0.50	y	0.83	34:41	1663.3			83.2					
IS	13C-1,2,3,4,6,7,8-HpCDF	3.15e+06	0.45	y	0.76	36:31	1362.2			68.1					
IS	13C-1,2,3,4,7,8,9-HpCDF	2.68e+06	0.44	y	0.58	38:19	1512.7			75.6					
IS	13C-OCDF	5.80e+06	0.90	y	0.69	41:15	2761.3			69.0					
C/Up	37Cl-2,3,7,8-TCDD	2.52e+06			1.20	26:07	801.73			100					
RS/RT	13C-1,2,3,4-TCDD	5.25e+06	0.80	y	1.00	25:32	2000.0				Integrations	Reviewed			
RS	13C-1,2,3,4-TCDF	9.20e+06	0.78	y	1.00	24:06	2000.0				by <u>DB</u>	by <u>CT</u>			
RS/RT	13C-1,2,3,4,6,9-HxCDF	6.10e+06	0.51	y	1.00	33:26	2000.0				Analyst: <u>DB</u>	Analyst: <u>CT</u>			
											Date: <u>12/5/19</u>	Date: <u>12/09/19</u>			

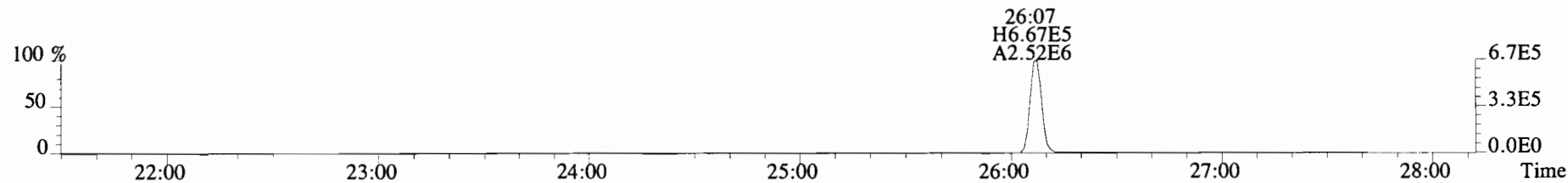
File:191204D1 #1-493 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BLK1 Method Blank 1 Exp:OCDD_DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



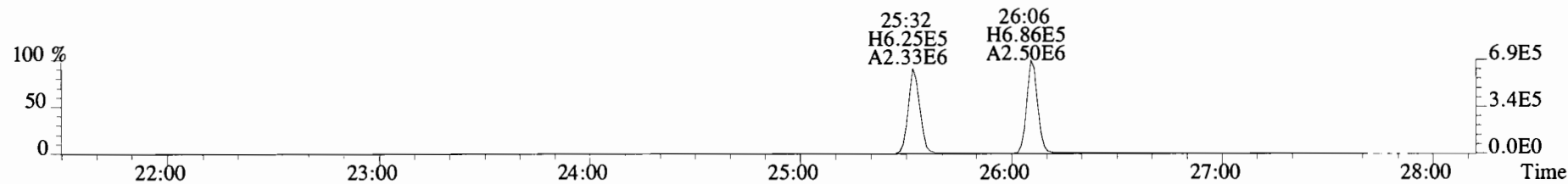
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



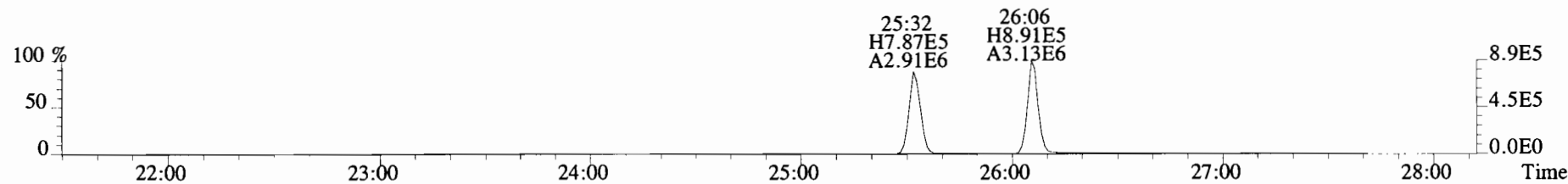
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



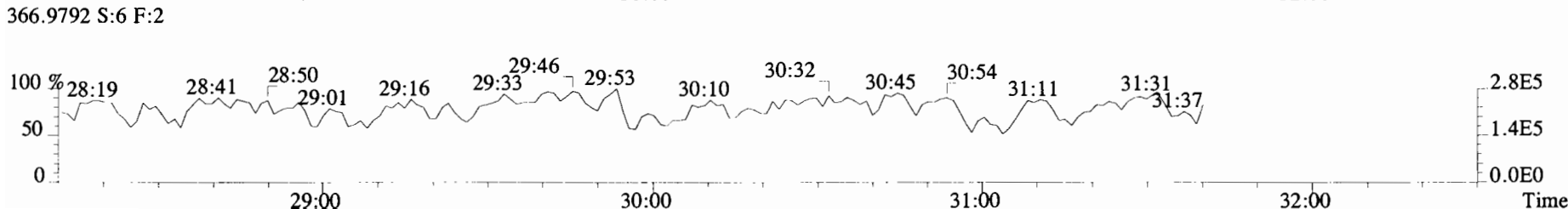
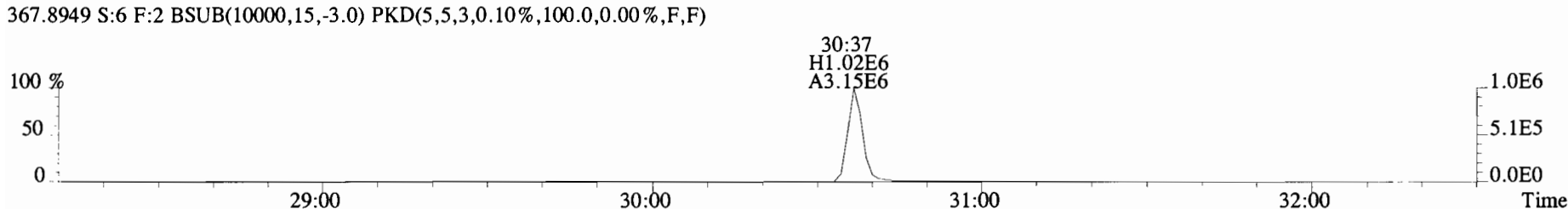
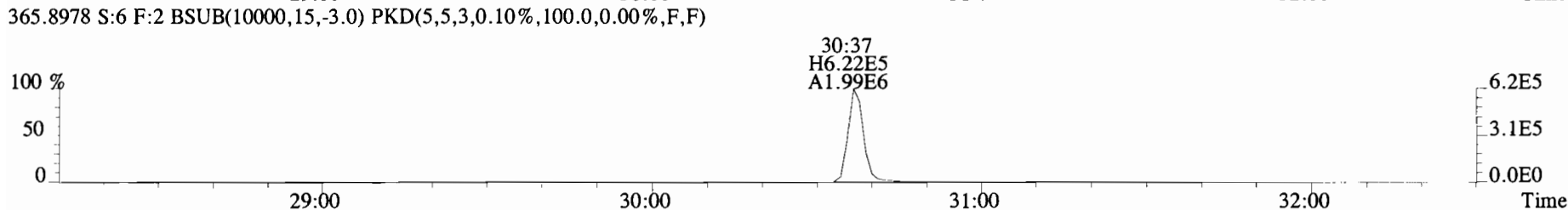
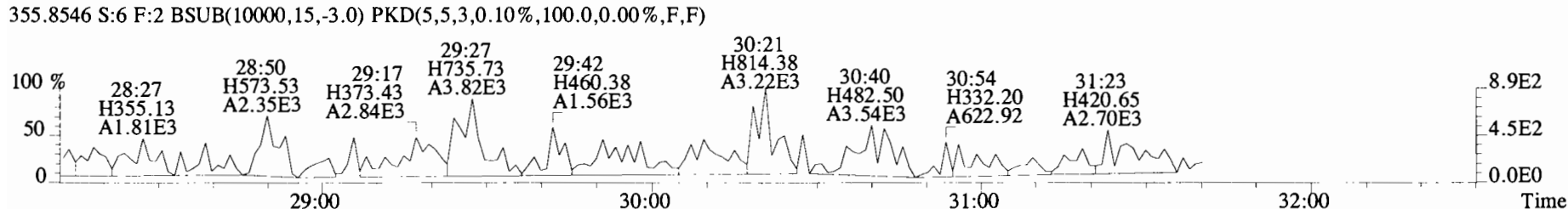
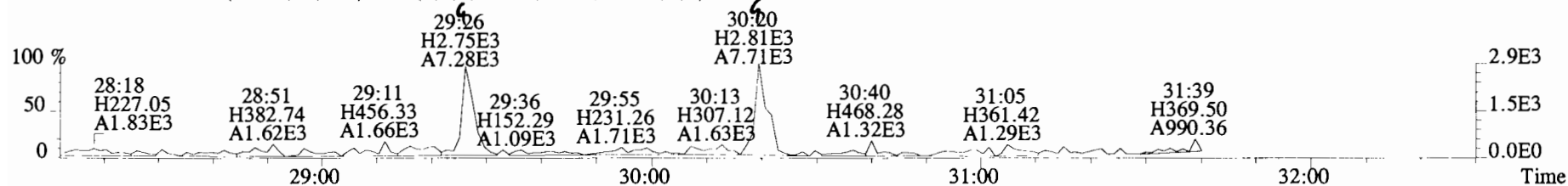
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



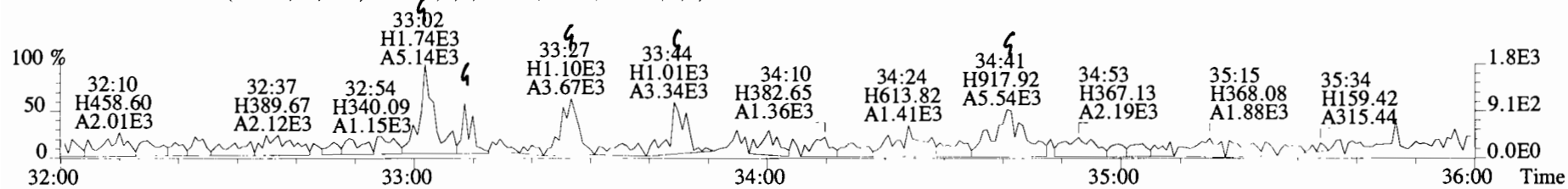
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



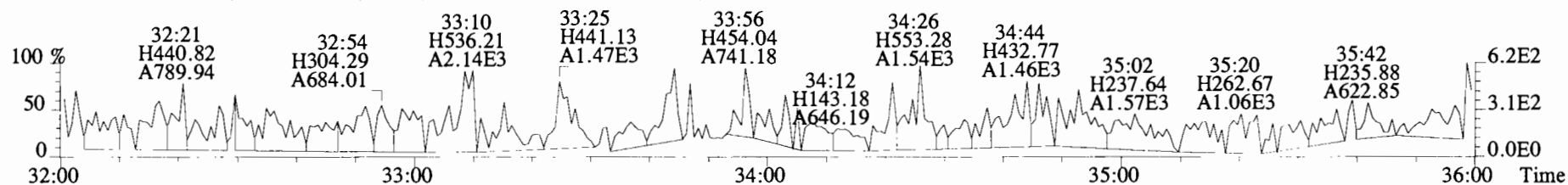
File:191204D1 #1-210 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BLK1 Method Blank 1 Exp:OCDD_DB5
 353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



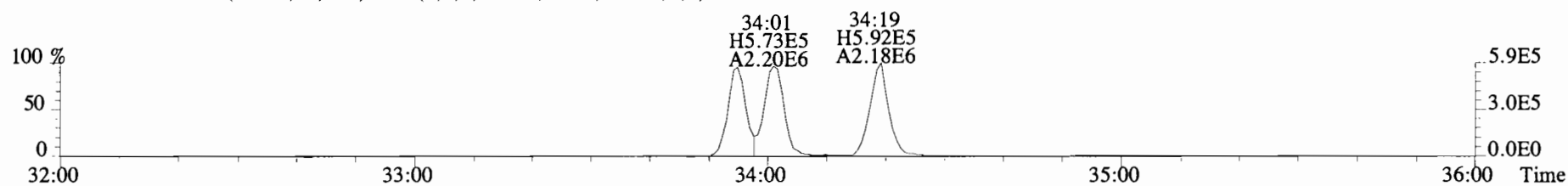
File:191204D1 #1-385 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BLK1 Method Blank 1 Exp:OCDD_DB5
 389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



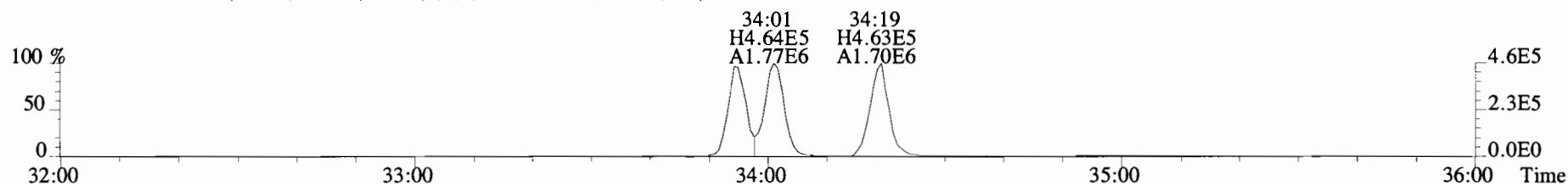
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



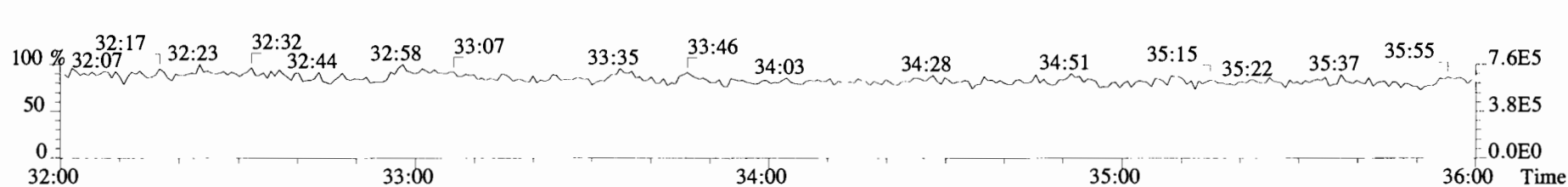
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



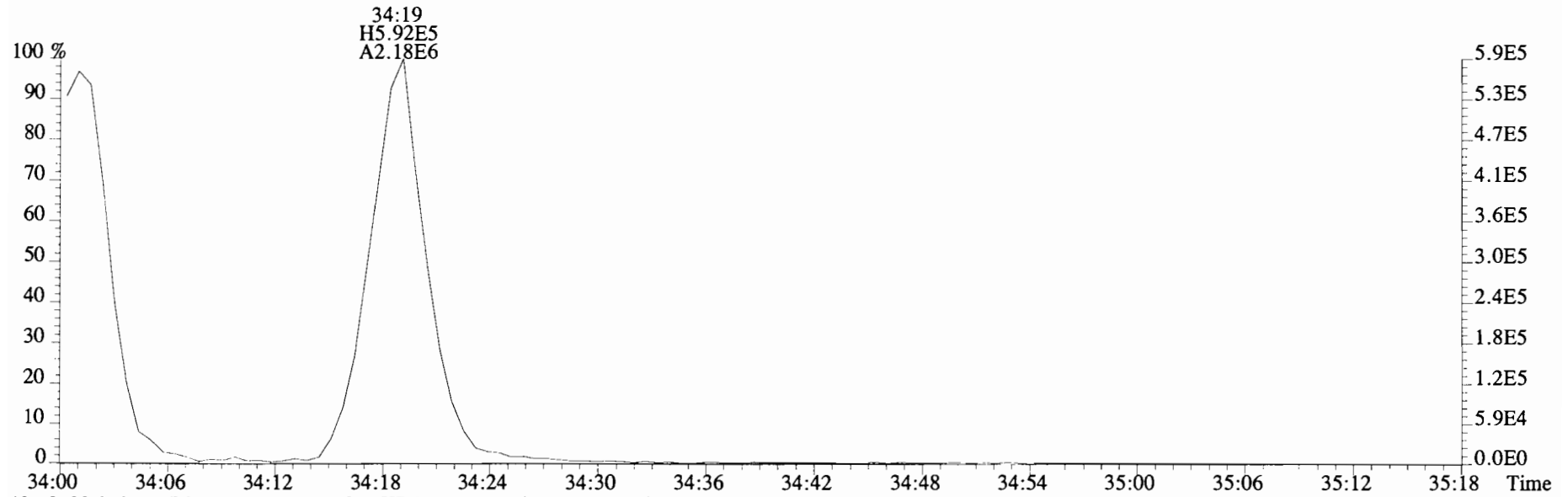
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



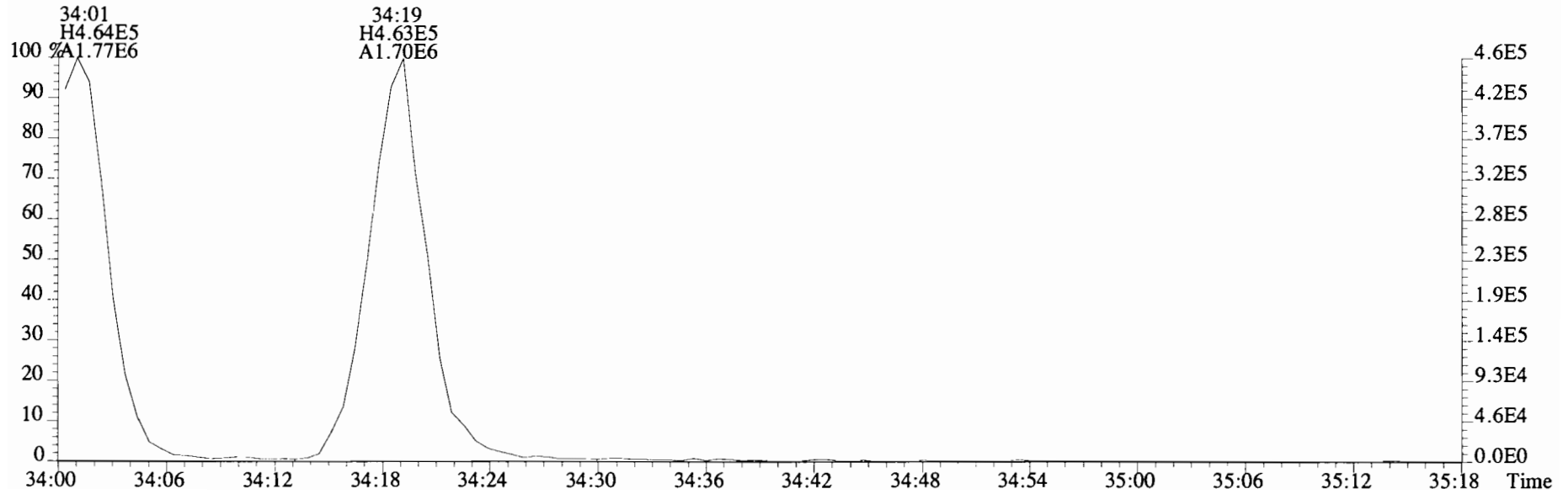
392.9760 S:6 F:3



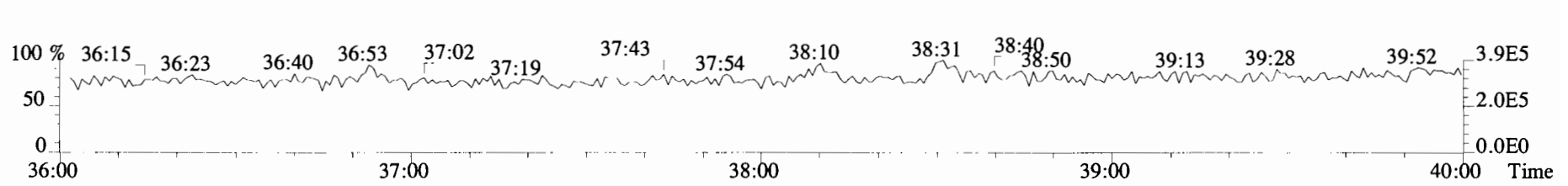
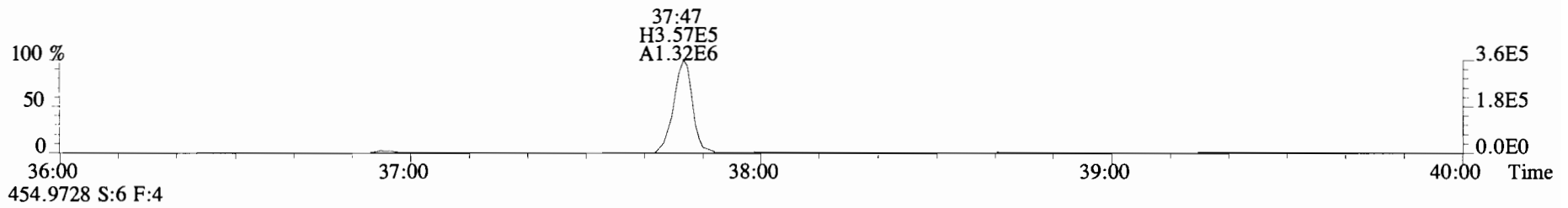
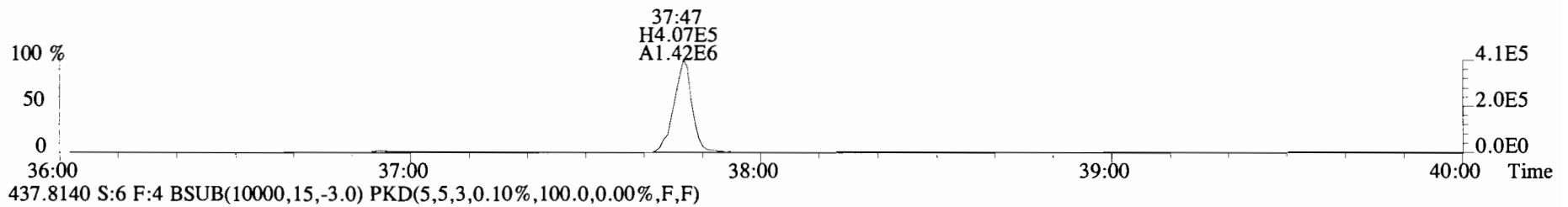
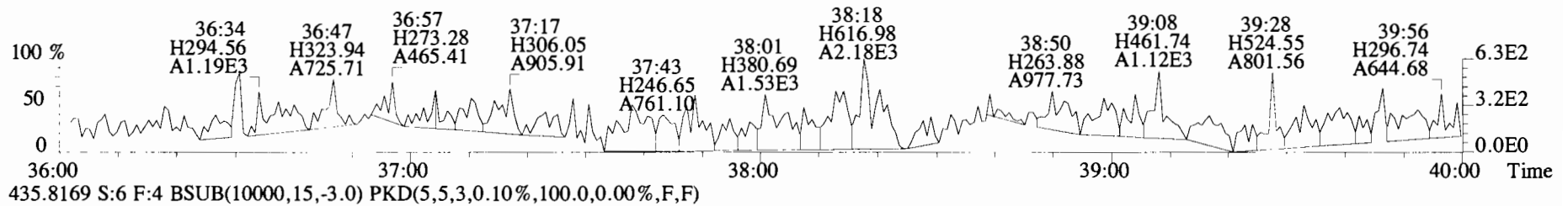
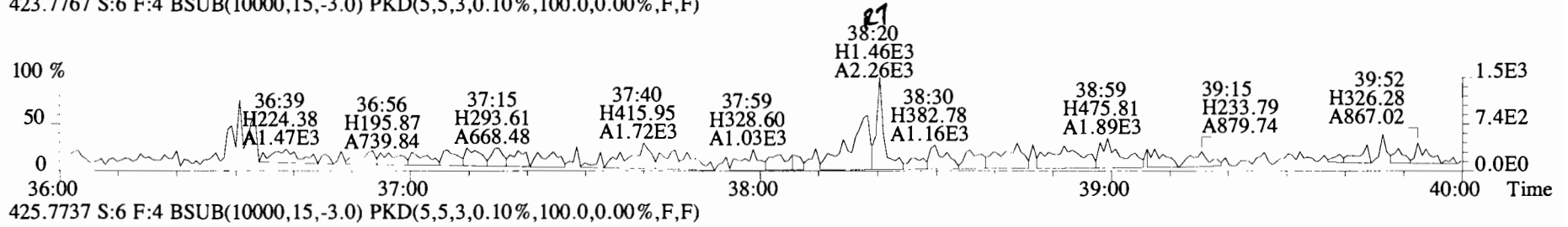
File:191204D1 #1-385 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG7 Text:B9K0253-BLK1 Method Blank 1 Exp:OCDD_DB5
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



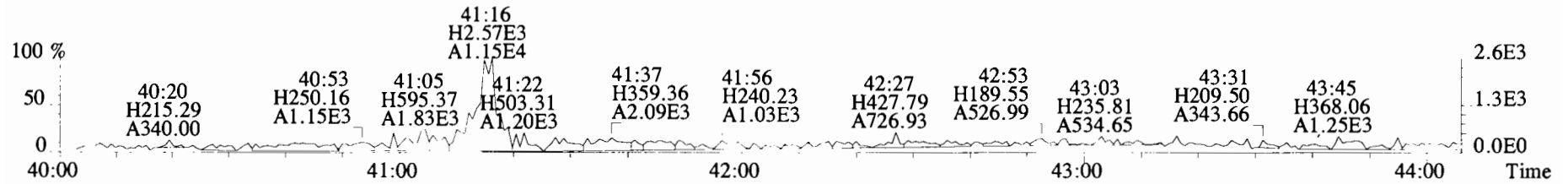
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



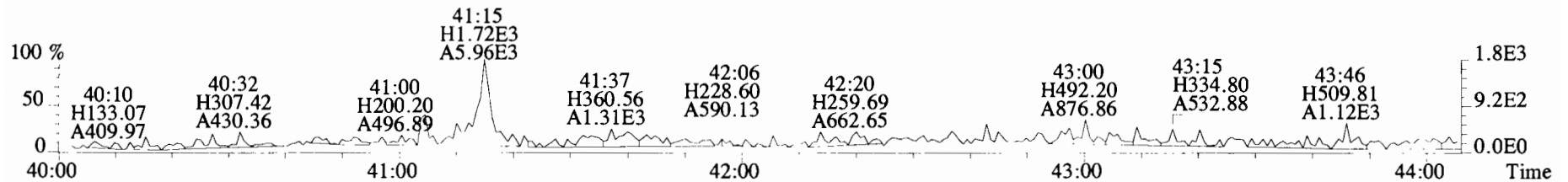
File:191204D1 #1-356 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BLK1 Method Blank 1 Exp:OCDD_DB5
 423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



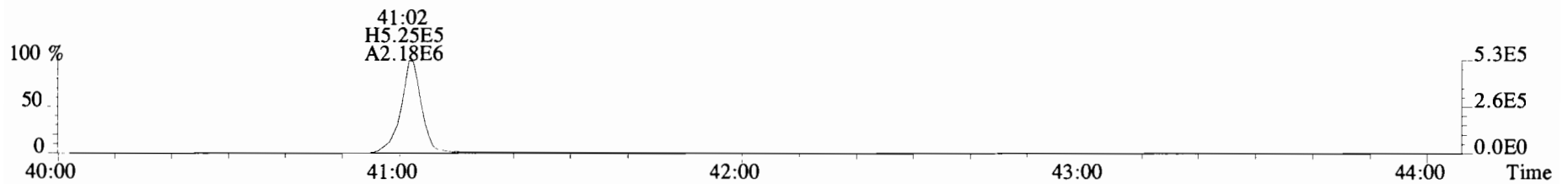
File:191204D1 #1-431 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BLK1 Method Blank 1 Exp:OCDD_DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



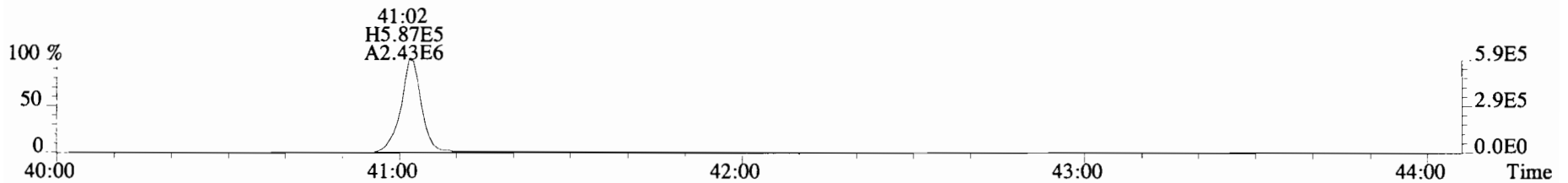
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



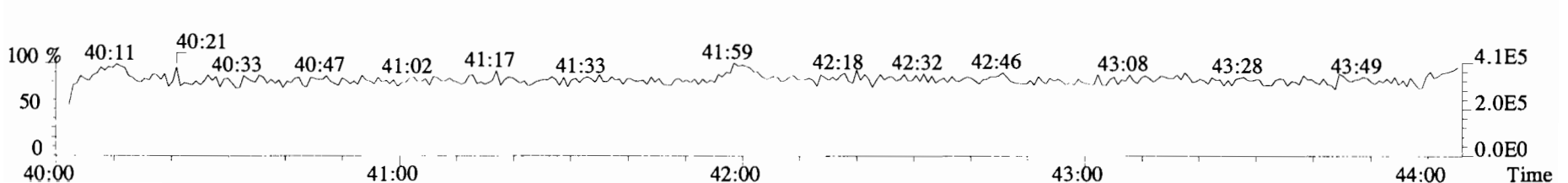
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



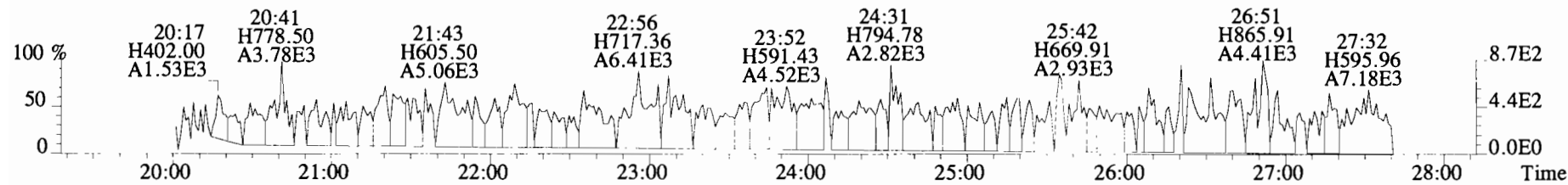
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



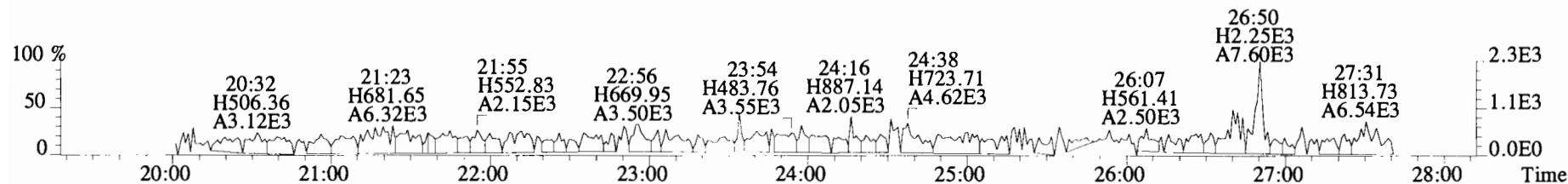
454.9728 S:6 F:5



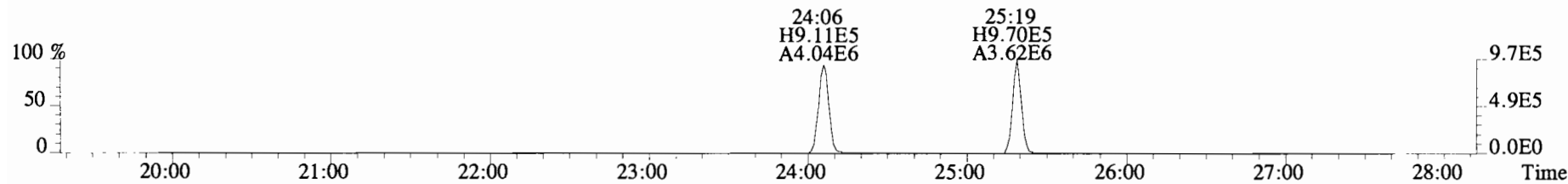
File:191204D1 #1-493 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BLK1 Method Blank 1 Exp:OCDD_DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



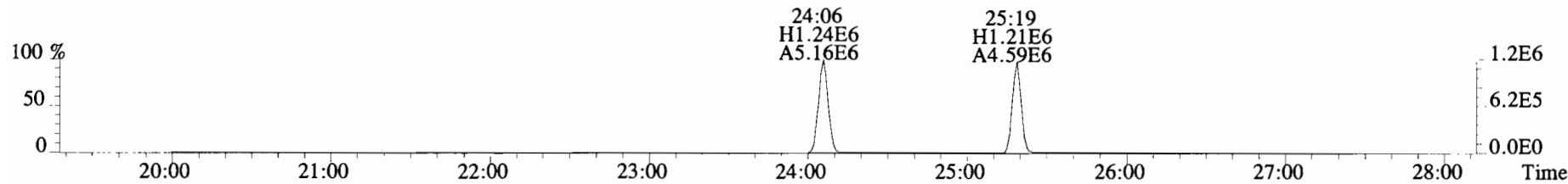
305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



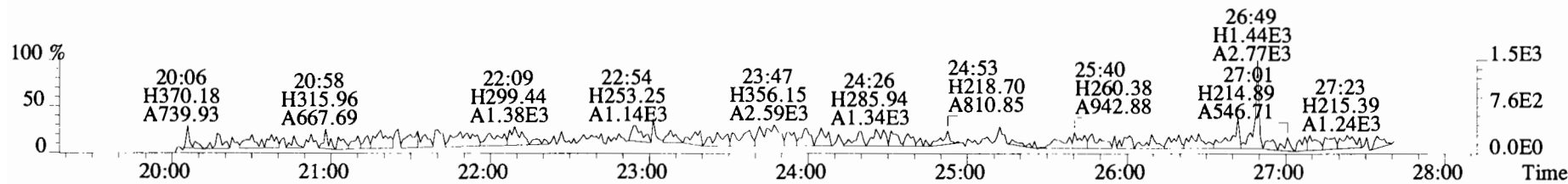
315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



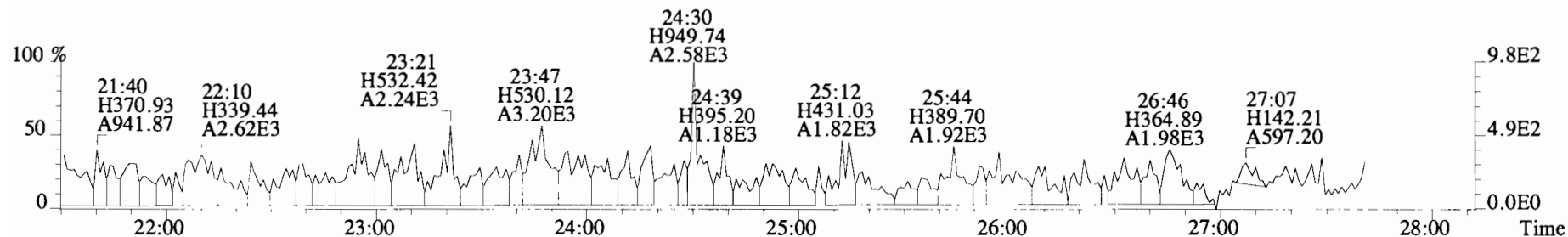
317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



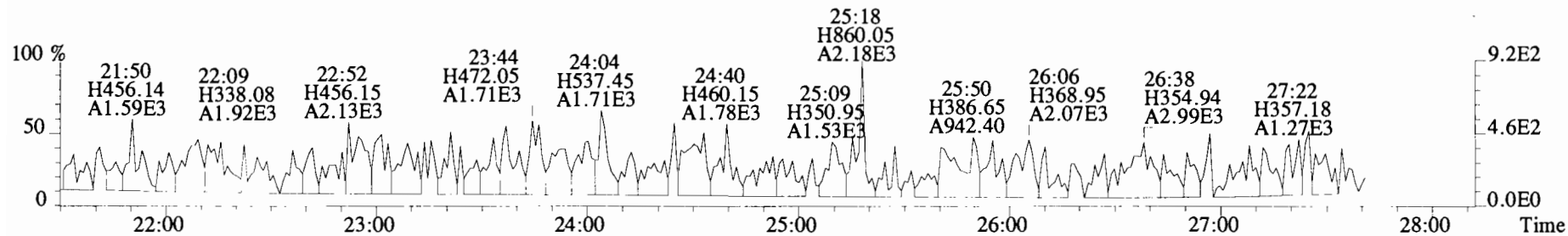
375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



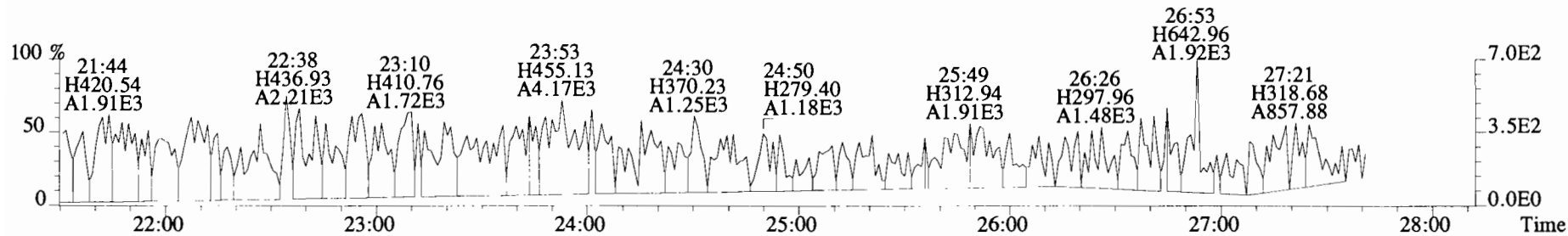
File:191204D1 #1-493 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory_VG7 Text:B9K0253-BLK1 Method Blank 1 Exp:OCDD_DB5
 339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



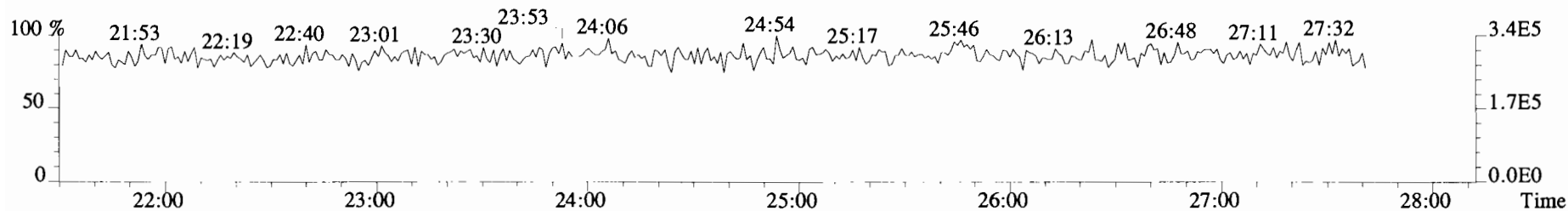
341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



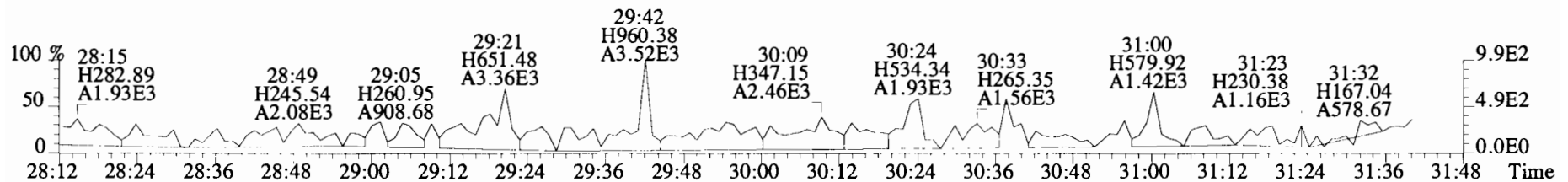
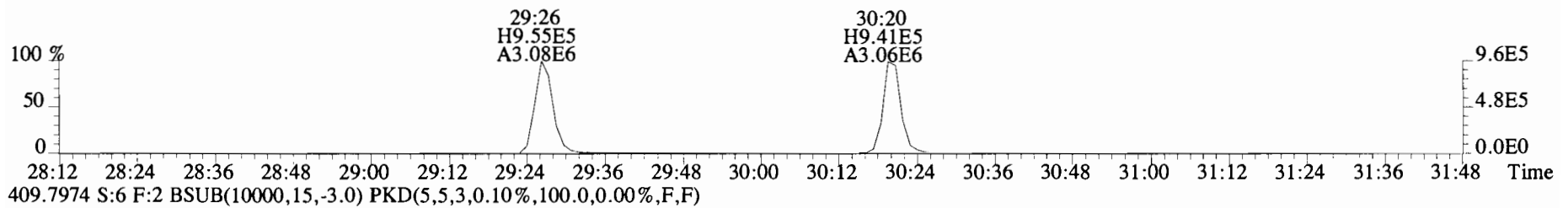
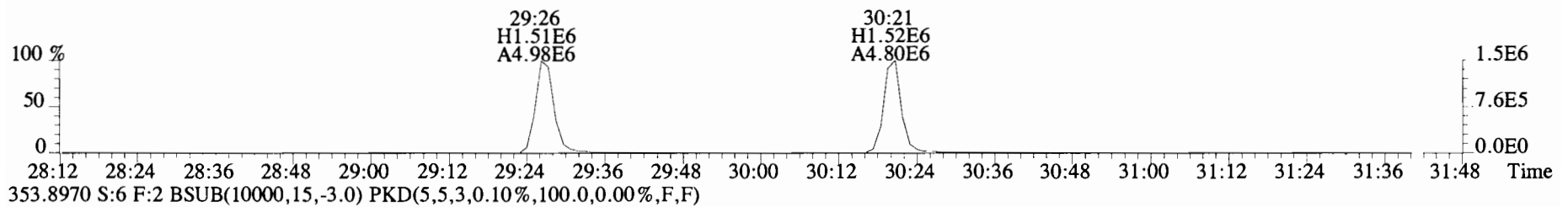
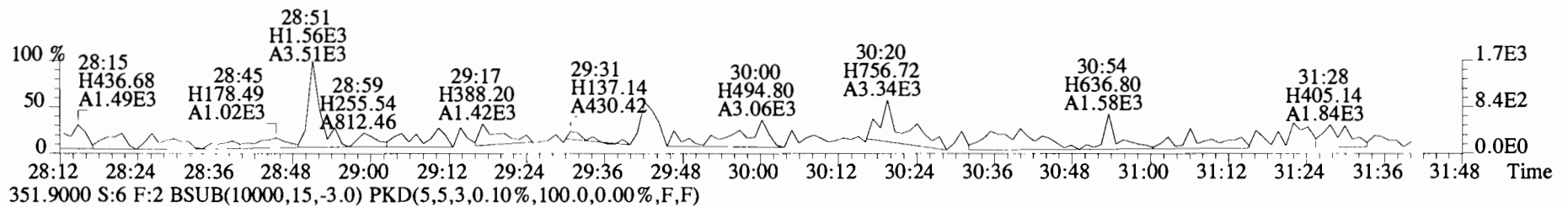
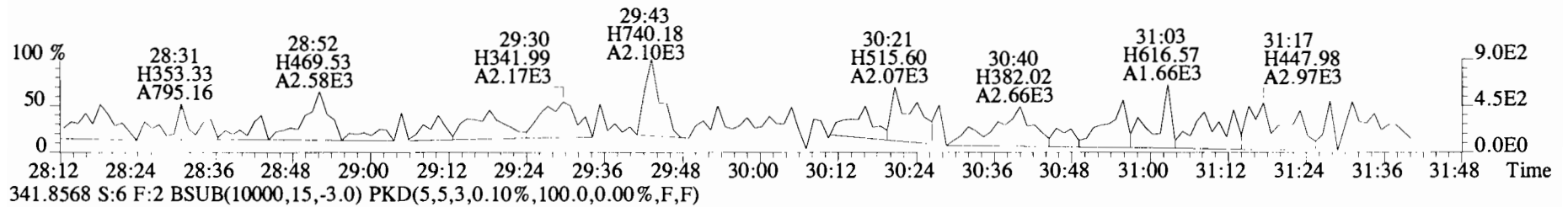
409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



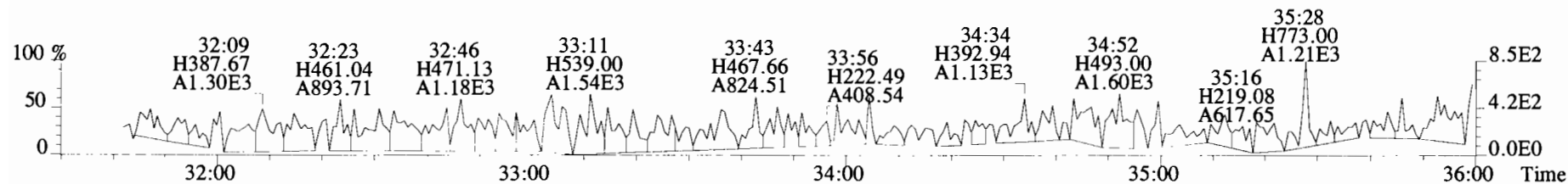
316.9824 S:6



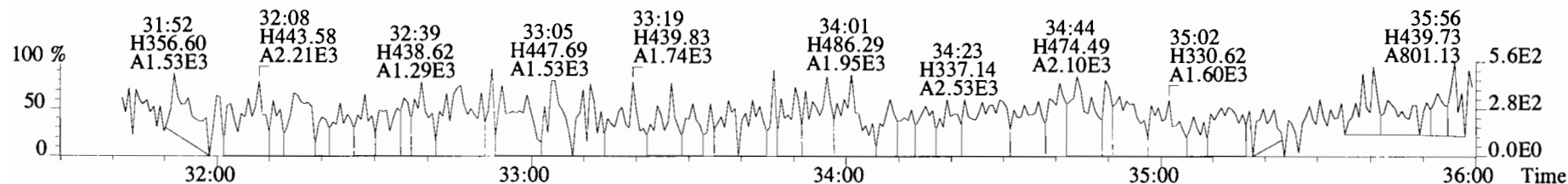
File:191204D1 #1-210 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BLK1 Method Blank 1 Exp:OCDD_DB5
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



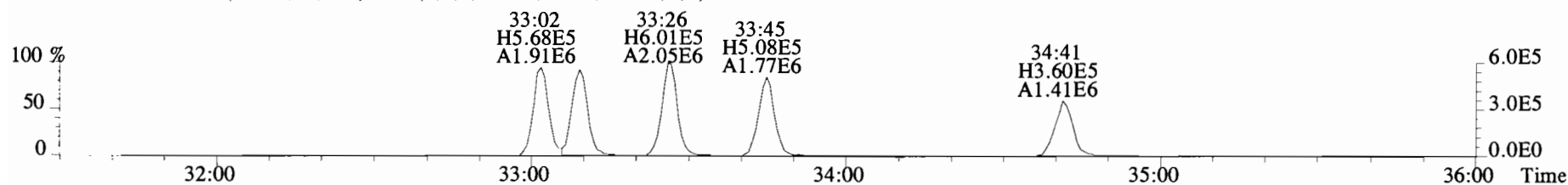
File:191204D1 #1-385 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BLK1 Method Blank 1 Exp:OCDD_DB5
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



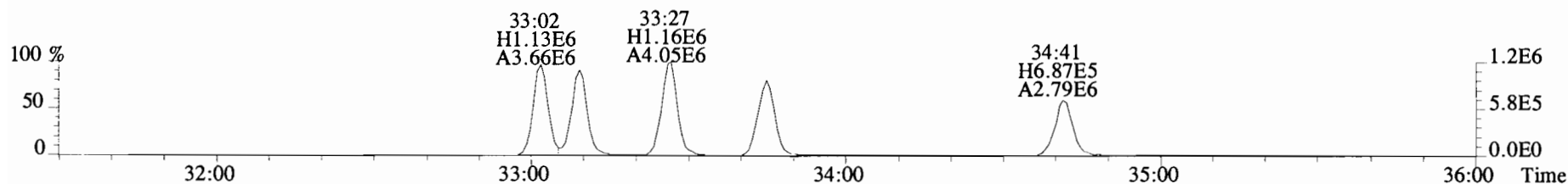
375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



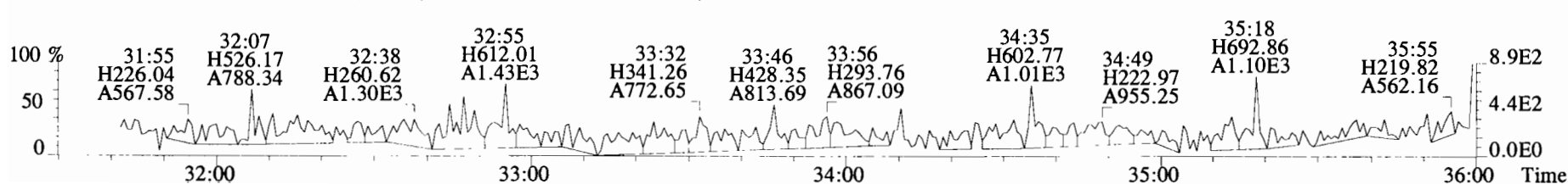
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



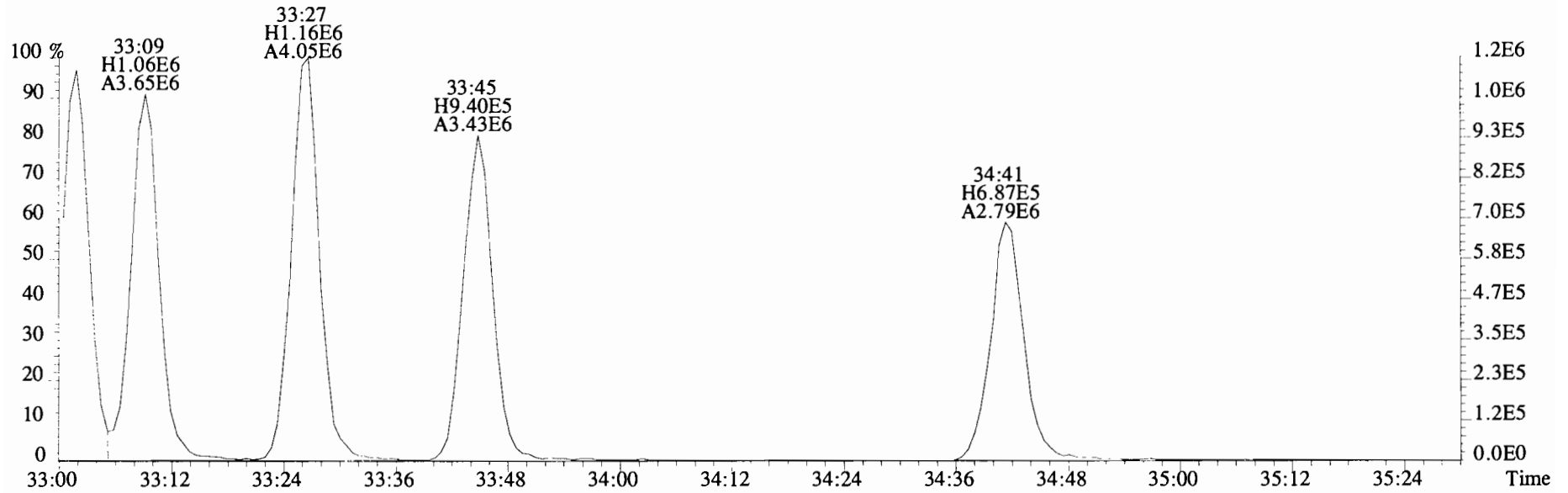
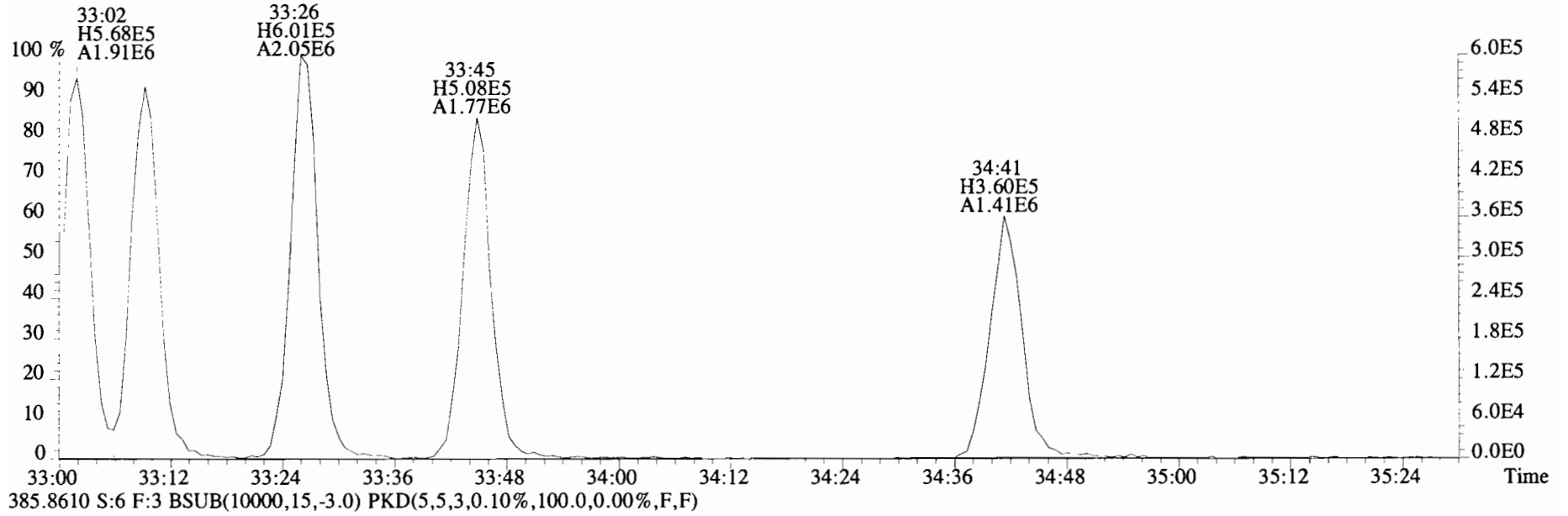
385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



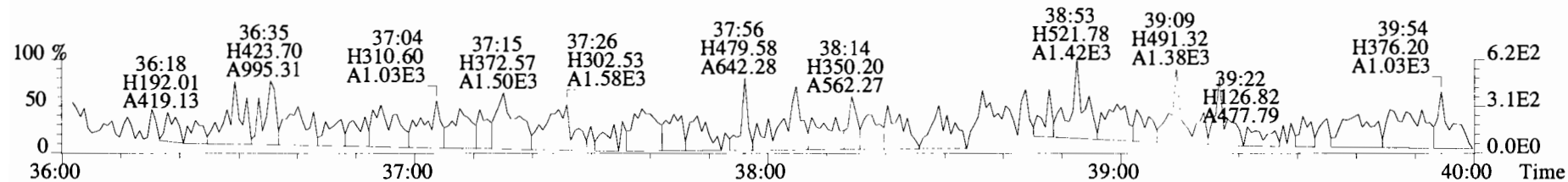
445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



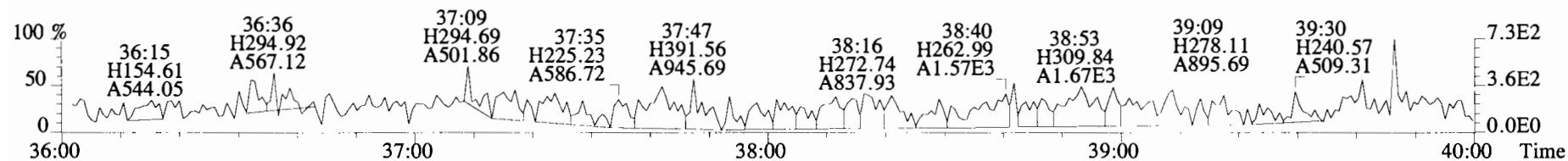
File:191204D1 #1-385 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BLK1 Method Blank 1 Exp:OCDD_DB5
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



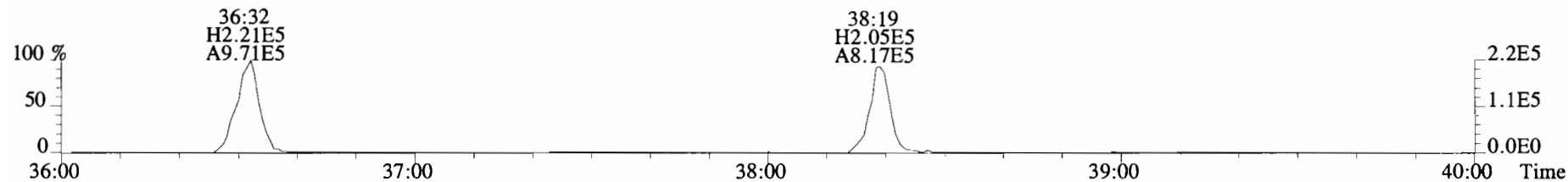
File: 191204D1 #1-356 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text: Vista_Analytical_Laboratory_VG7 Text: B9K0253-BLK1 Method Blank 1 Exp: OCDD_DB5
 407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



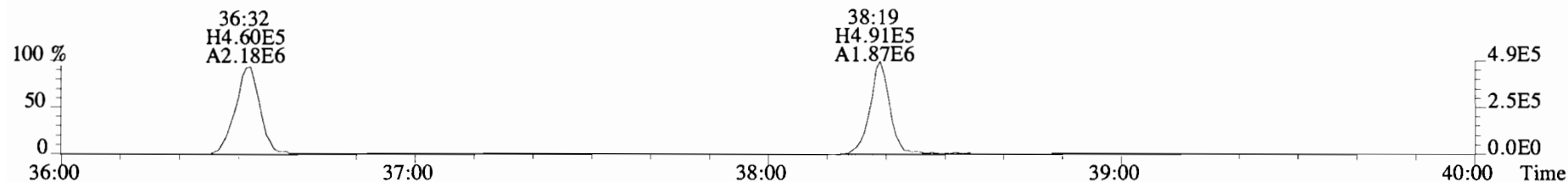
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



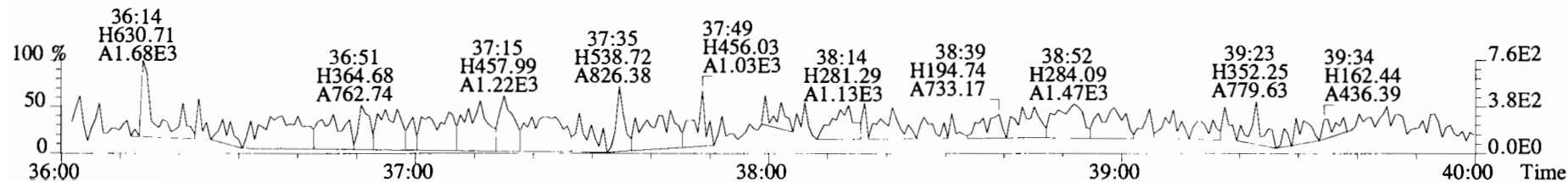
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



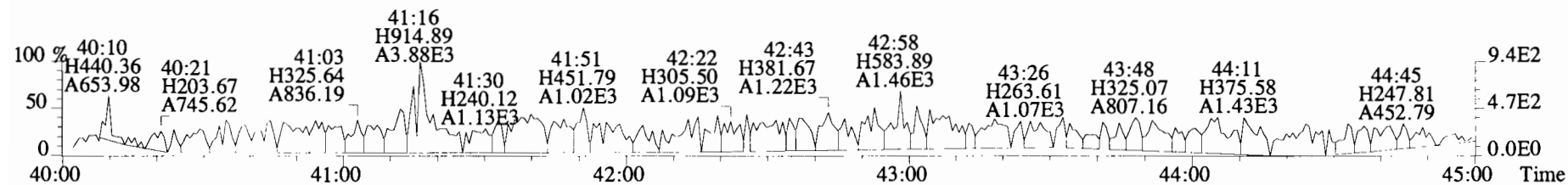
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



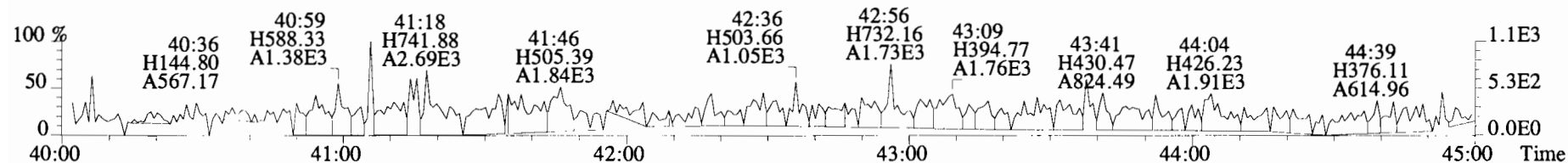
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



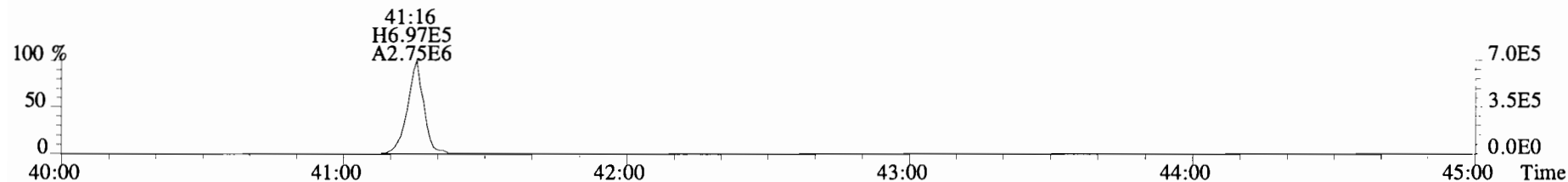
File:191204D1 #1-431 Acq: 4-DEC-2019 21:45:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BLK1 Method Blank 1 Exp:OCDD_DB5
 441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



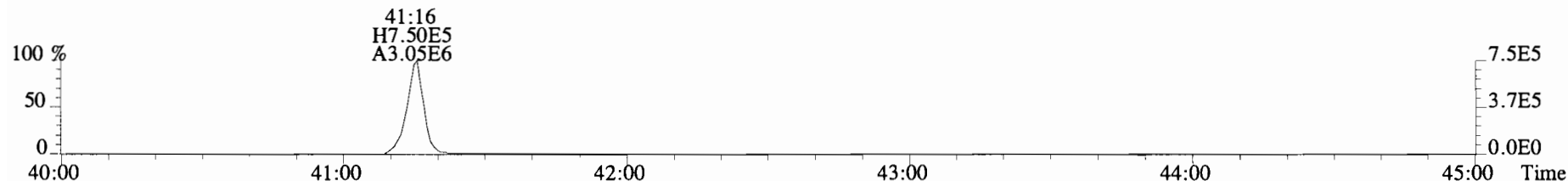
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



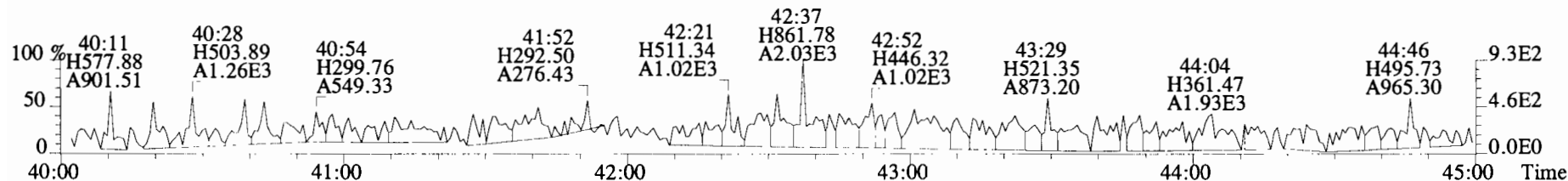
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



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

Lab Name: Vista Analytical Laboratory Extraction Batch: B9K0253-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 191204D1-2

Ext. Date: Shift: Day Analysis Date: 4-DEC-19 Time: 18:34:47

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	10.7	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	53.3	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	49.3	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	51.4	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	51.0	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	50.1	35.0 - 70.0
OCDD	100	106	78.0 - 144.0
2,3,7,8-TCDF	10	9.37	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	53.3	40.0 - 67.0
2,3,4,7,8-PeCDF	50	52.8	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	47.2	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	45.7	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	48.2	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	47.6	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	47.6	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	46.8	39.0 - 69.0
OCDF	100	97.1	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: 12/5/19

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

Lab Name: Vista Analytical Laboratory Extraction Batch: B9K0253-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 191204D1-2

Ext. Date: Shift: Day Analysis Date: 4-DEC-19 Time: 18:34:47

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	84.2	20.0 - 175.0 25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	96.9	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	84.4	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	70.8	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	73.4	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	70.4	26.0 - 166.0
13C-OCDD	200	130	26.0 - 397.0
13C-2,3,7,8-TCDF	100	75.3	22.0 - 152.0 26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	92.0	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	91.7	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	102	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	84.0	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	77.7	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	78.0	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	62.1	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	71.3	20.0 - 186.0
13C-OCDF	200	140	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	39.8	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: 12/5/19

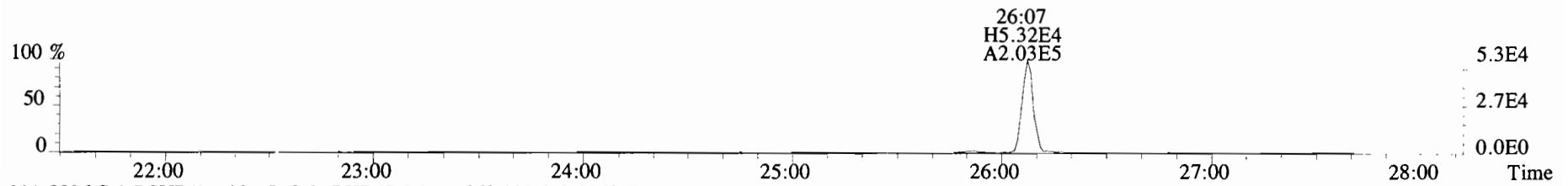
Client ID: OPR
Lab ID: B9K0253-BS1

Filename: 191204D1 S:2 Acq: 4-DEC-19 18:34:47
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

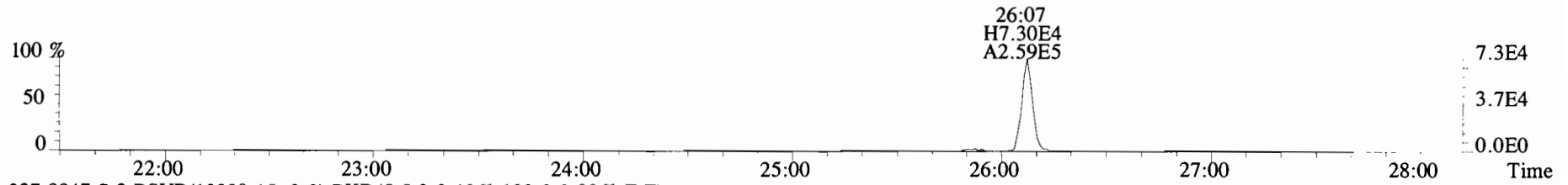
ConCal: ST191204D1-1
EndCAL: ST191204D2-1

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	4.62e+05	0.78 y	0.91	26:07	10.715			* 2.5	*	Total Tetra-Dioxins	11.4	12.8		*	*
1,2,3,7,8-PeCDD	2.12e+06	0.62 y	0.90	30:39	53.322			* 2.5	*	Total Penta-Dioxins	53.3	53.4		*	*
1,2,3,4,7,8-HxCDD	1.72e+06	1.29 y	1.10	33:56	49.325			* 2.5	*	Total Hexa-Dioxins	152	153		*	*
1,2,3,6,7,8-HxCDD	1.70e+06	1.19 y	0.94	34:03	51.379			* 2.5	*	Total Hepta-Dioxins	50.3	52.4		*	*
1,2,3,7,8,9-HxCDD	1.69e+06	1.25 y	0.96	34:20	51.024			* 2.5	*	Total Tetra-Furans	9.98	12.2		*	*
1,2,3,4,6,7,8-HpCDD	1.32e+06	1.02 y	0.98	37:48	50.133			* 2.5	*	Total Penta-Furans	106.44	108.83		*	*
OCDD	2.23e+06	0.87 y	0.96	41:04	105.82			* 2.5	*	Total Hexa-Furans	190	190		*	*
										Total Hepta-Furans	95.7	98.2		*	*
2,3,7,8-TCDF	6.14e+05	0.75 y	0.95	25:20	9.3735			* 2.5	*						
1,2,3,7,8-PeCDF	3.56e+06	1.59 y	0.96	29:28	53.316			* 2.5	*						
2,3,4,7,8-PeCDF	3.68e+06	1.62 y	1.01	30:22	52.802			* 2.5	*						
1,2,3,4,7,8-HxCDF	2.74e+06	1.22 y	1.18	33:03	47.214			* 2.5	*						
1,2,3,6,7,8-HxCDF	2.47e+06	1.26 y	1.07	33:11	45.712			* 2.5	*						
2,3,4,6,7,8-HxCDF	2.31e+06	1.20 y	1.11	33:46	48.193			* 2.5	*						
1,2,3,7,8,9-HxCDF	1.90e+06	1.22 y	1.06	34:43	47.575			* 2.5	*						
1,2,3,4,6,7,8-HpCDF	1.47e+06	1.01 y	1.13	36:33	47.615			* 2.5	*						
1,2,3,4,7,8,9-HpCDF	1.45e+06	1.00 y	1.28	38:20	46.823			* 2.5	*						
OCDF	2.58e+06	0.86 y	0.95	41:17	97.142			* 2.5	*						
										Rec	Qual				
IS 13C-2,3,7,8-TCDD	4.76e+06	0.78 y	1.10	26:06	84.157					84.2					
IS 13C-1,2,3,7,8-PeCDD	4.41e+06	0.63 y	0.88	30:38	96.852					96.9					
IS 13C-1,2,3,4,7,8-HxCDD	3.16e+06	1.29 y	0.64	33:55	84.448					84.4					
IS 13C-1,2,3,6,7,8-HxCDD	3.53e+06	1.27 y	0.86	34:02	70.761					70.8					
IS 13C-1,2,3,7,8,9-HxCDD	3.45e+06	1.26 y	0.81	34:20	73.374					73.4					
IS 13C-1,2,3,4,6,7,8-HpCDD	2.68e+06	1.06 y	0.65	37:47	70.394					70.4					
IS 13C-OCDD	4.40e+06	0.90 y	0.58	41:03	130.25					65.1					
IS 13C-2,3,7,8-TCDF	6.89e+06	0.83 y	1.03	25:19	75.343					75.3					
IS 13C-1,2,3,7,8-PeCDF	6.94e+06	1.62 y	0.85	29:27	91.974					92.0					
IS 13C-2,3,4,7,8-PeCDF	6.86e+06	1.63 y	0.85	30:21	91.685					91.7					
IS 13C-1,2,3,4,7,8-HxCDF	4.93e+06	0.51 y	0.83	33:02	101.87					102					
IS 13C-1,2,3,6,7,8-HxCDF	5.06e+06	0.53 y	1.03	33:10	84.043					84.0					
IS 13C-2,3,4,6,7,8-HxCDF	4.31e+06	0.52 y	0.95	33:45	77.669					77.7					
IS 13C-1,2,3,7,8,9-HxCDF	3.76e+06	0.53 y	0.83	34:42	77.996					78.0					
IS 13C-1,2,3,4,6,7,8-HpCDF	2.74e+06	0.46 y	0.76	36:32	62.137					62.1					
IS 13C-1,2,3,4,7,8,9-HpCDF	2.41e+06	0.44 y	0.58	38:20	71.277					71.3					
IS 13C-OCDF	5.60e+06	0.86 y	0.69	41:16	139.59					69.8					
C/Up 37Cl-2,3,7,8-TCDD	2.46e+06		1.20	26:07	39.764					99.4					
RS/RT 13C-1,2,3,4-TCDD	5.17e+06	0.78 y	1.00	25:33	100.00						Integrations	Reviewed			
RS 13C-1,2,3,4-TCDF	8.84e+06	0.80 y	1.00	24:06	100.00						by <u>DB</u>	by <u>CT</u>			
RS/RT 13C-1,2,3,4,6,9-HxCDF	5.82e+06	0.51 y	1.00	33:27	100.00						Analyst: <u>DB</u>	Analyst: <u>CT</u>			
											Date: <u>12/5/19</u>	Date: <u>12/09/19</u>			

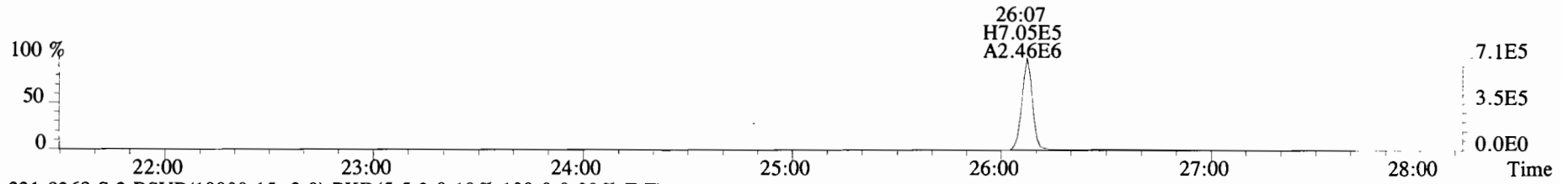
File:191204D1 #1-493 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



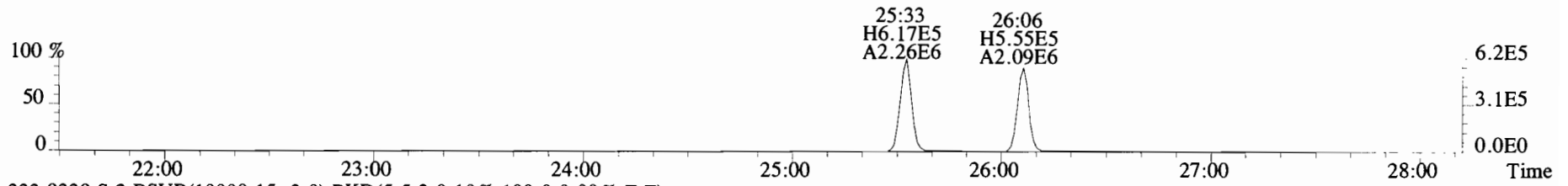
321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



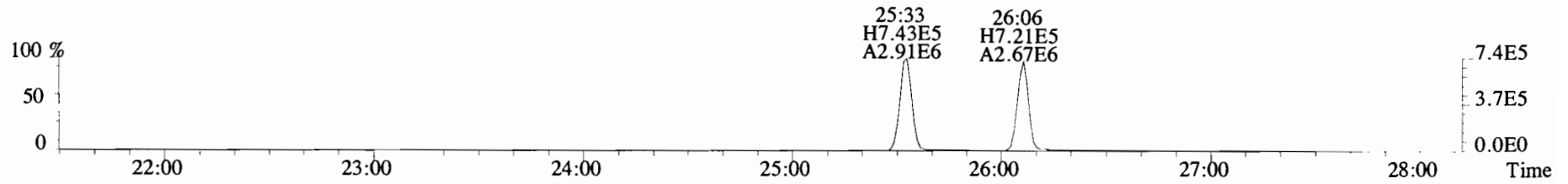
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



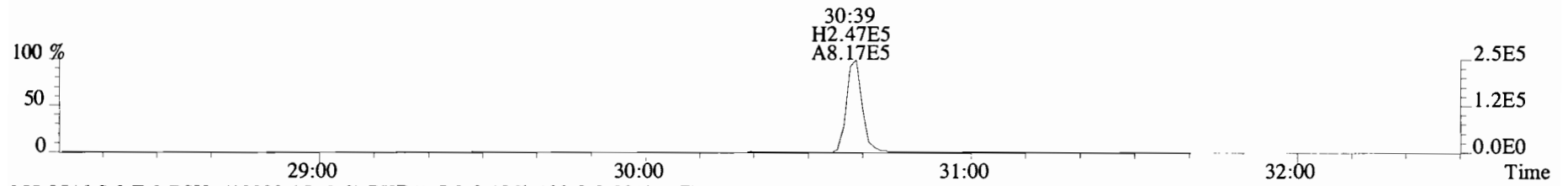
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



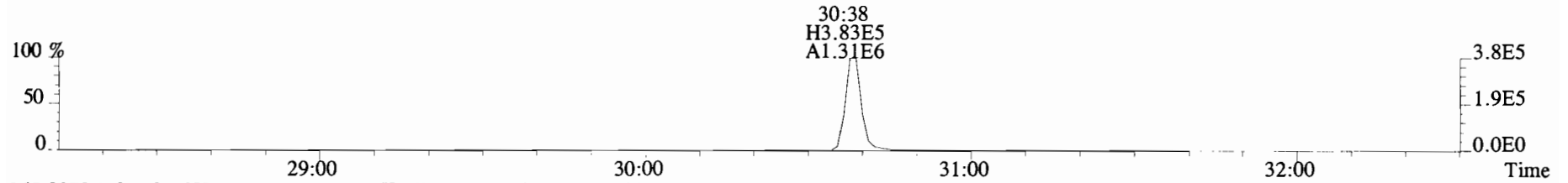
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



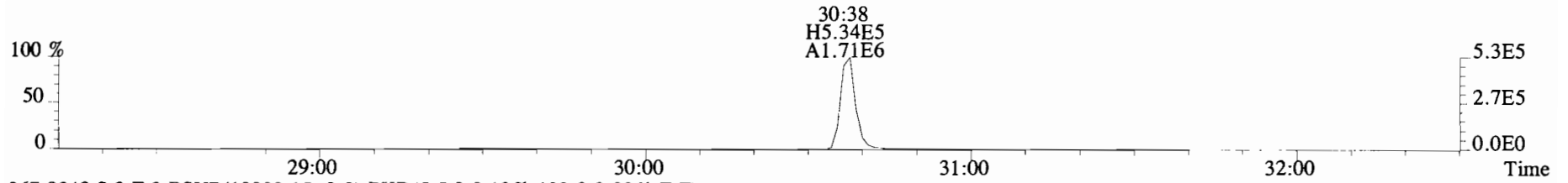
File:191204D1 #1-210 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



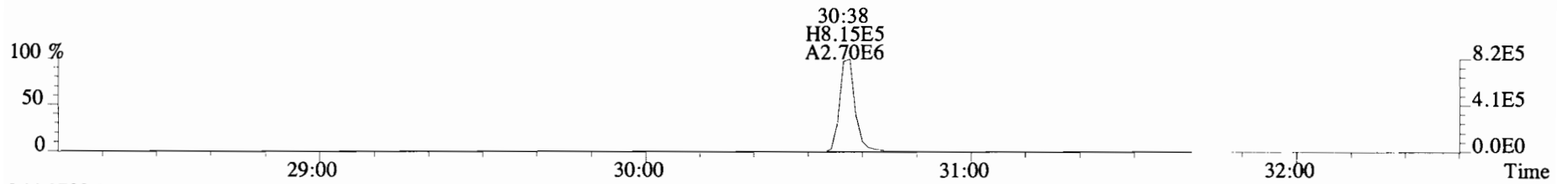
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



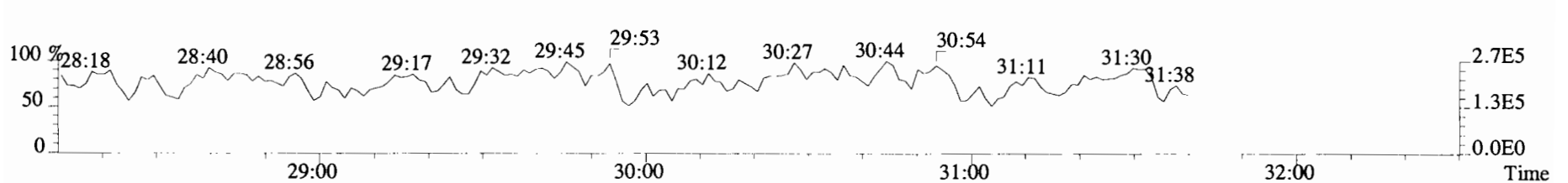
365.8978 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



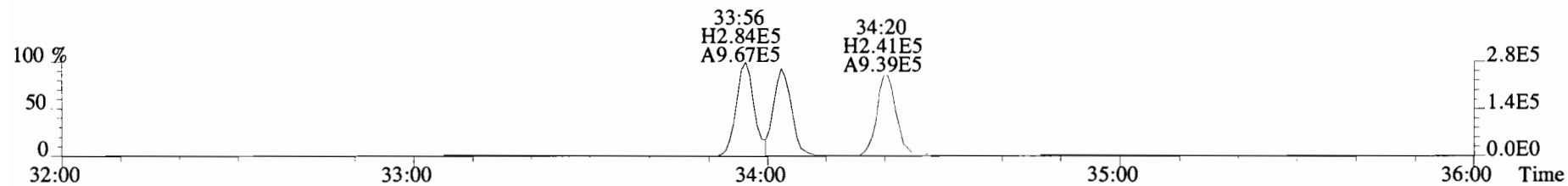
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



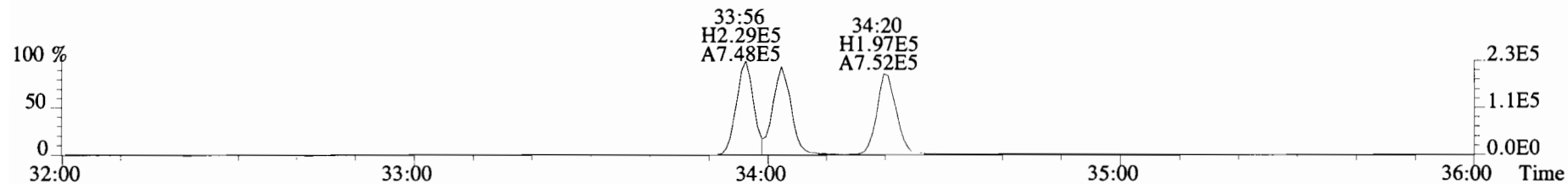
366.9792 S:2 F:2



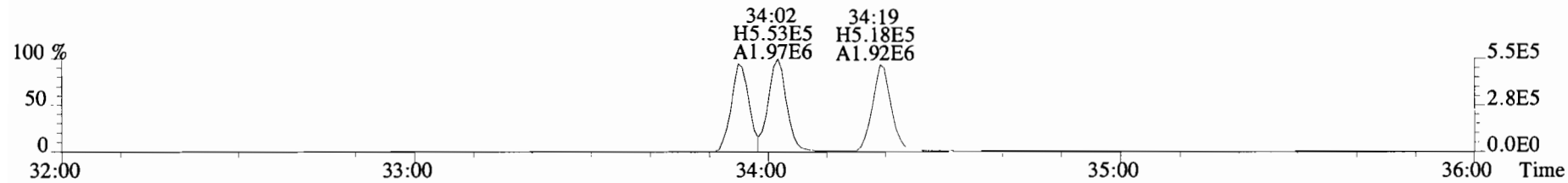
File:191204D1 #1-385 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
 389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



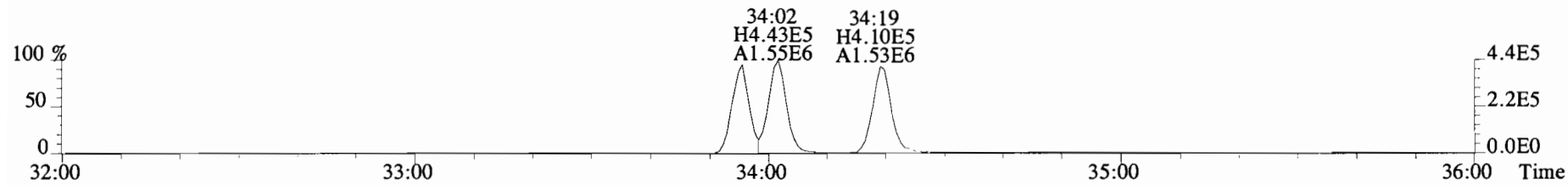
391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



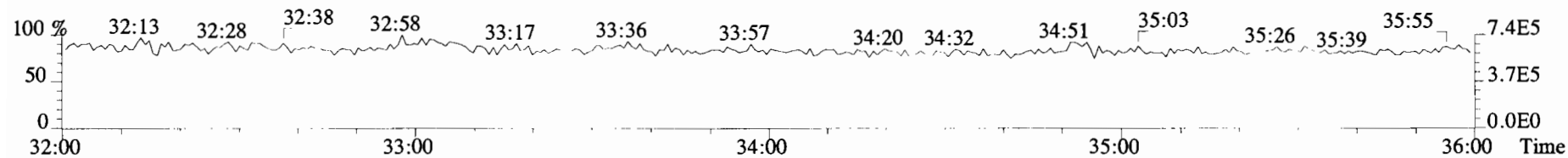
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



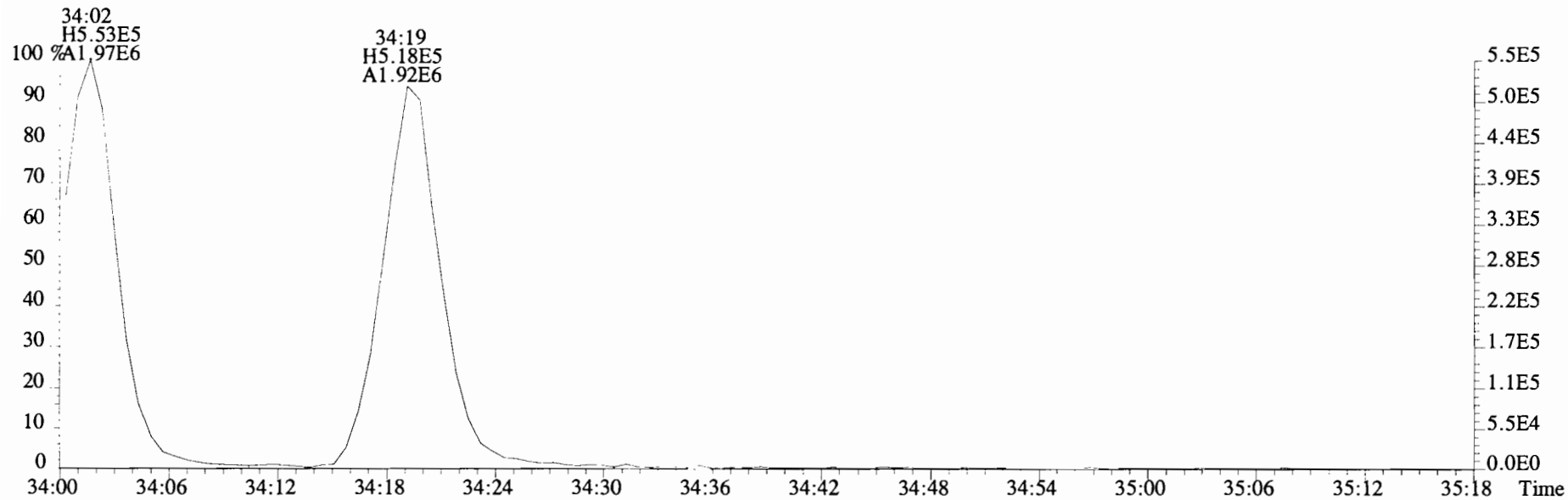
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



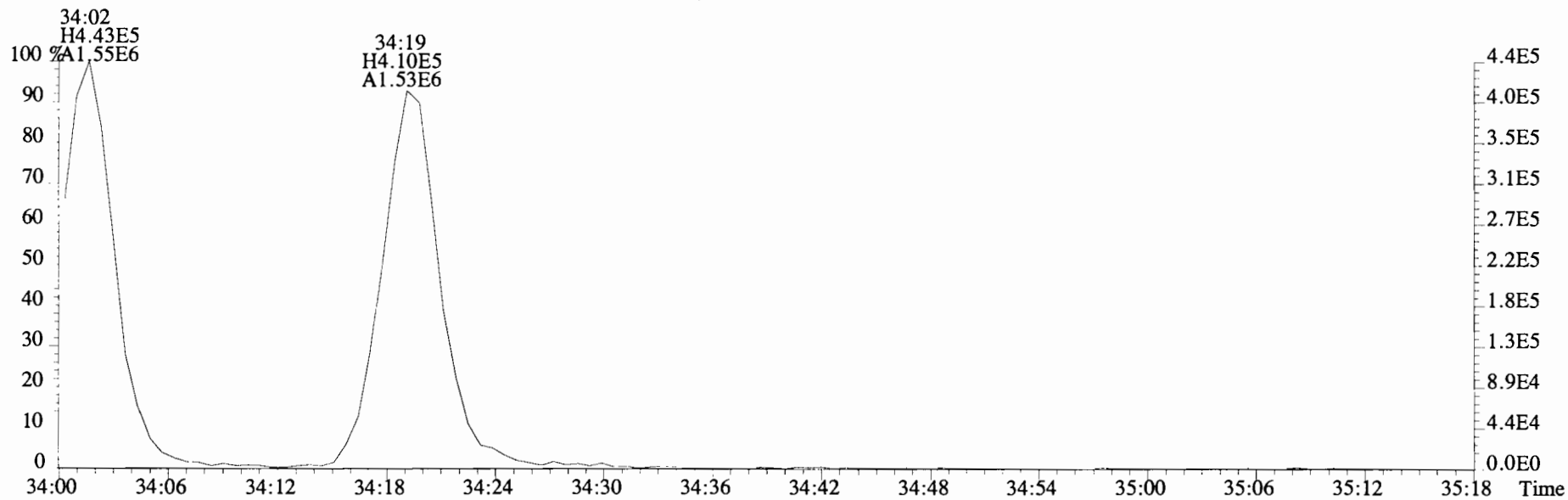
392.9760 S:2 F:3



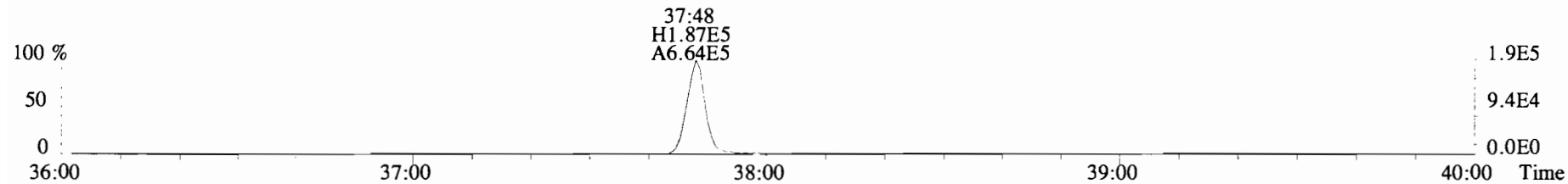
File:191204D1 #1-385 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



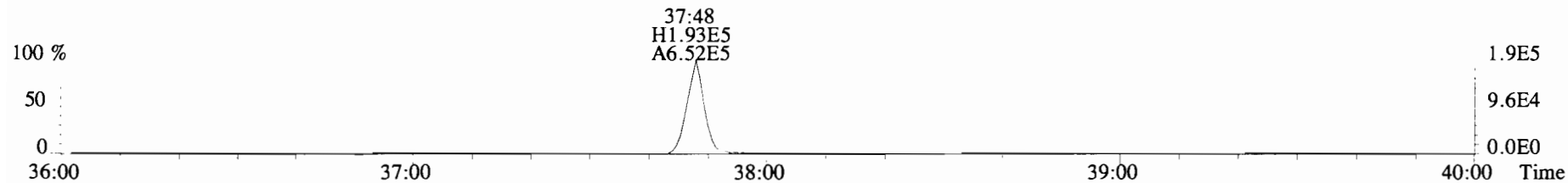
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



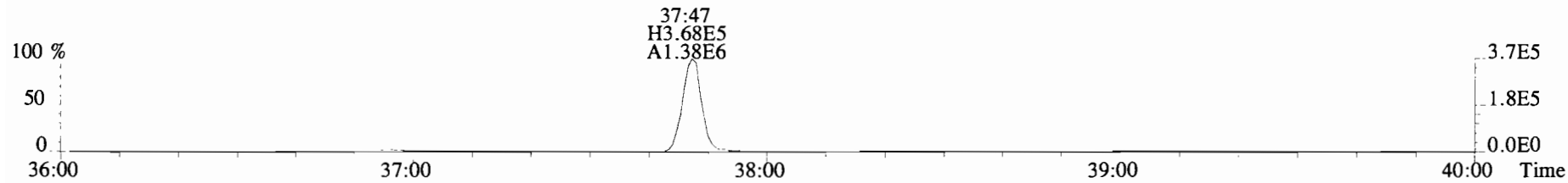
File:191204D1 #1-356 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



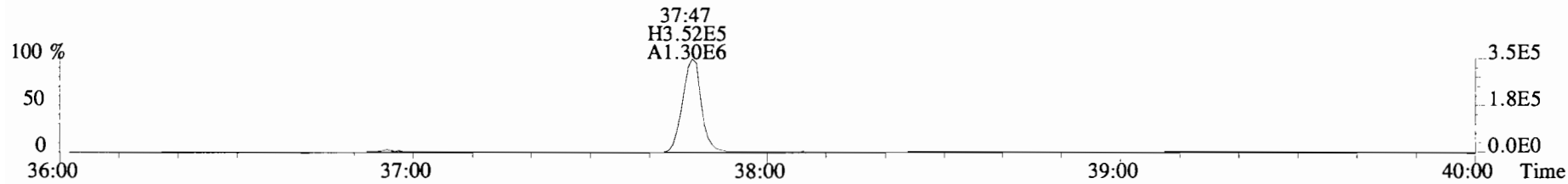
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



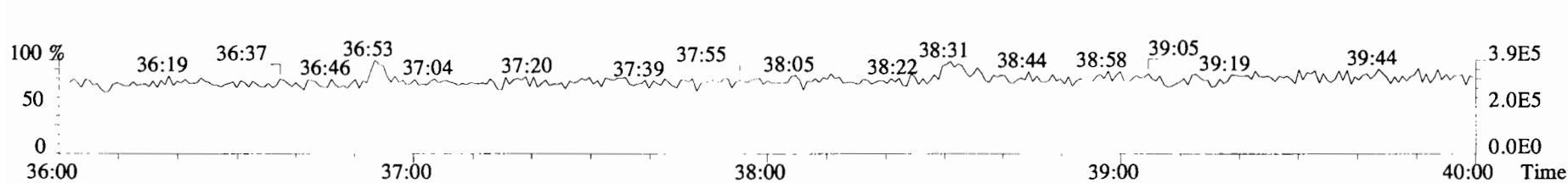
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



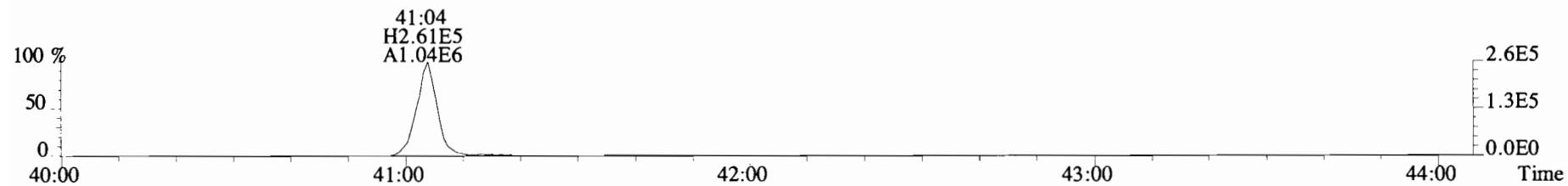
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



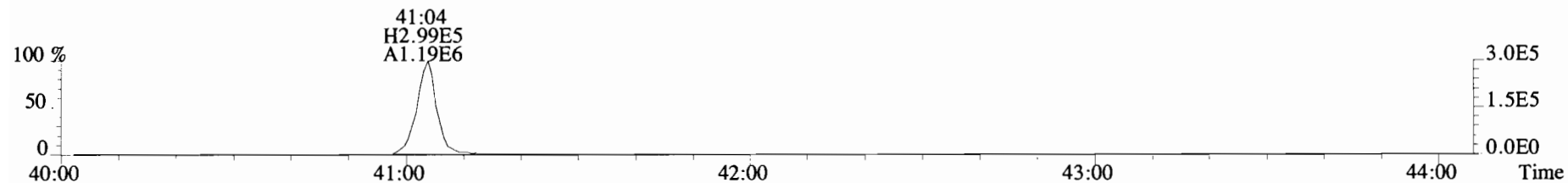
454.9728 S:2 F:4



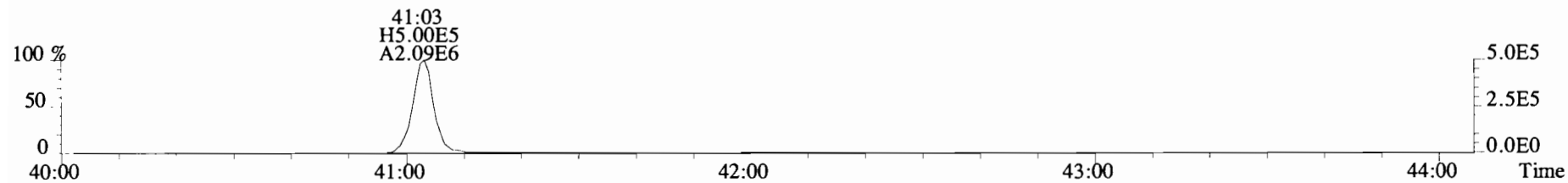
File:191204D1 #1-432 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



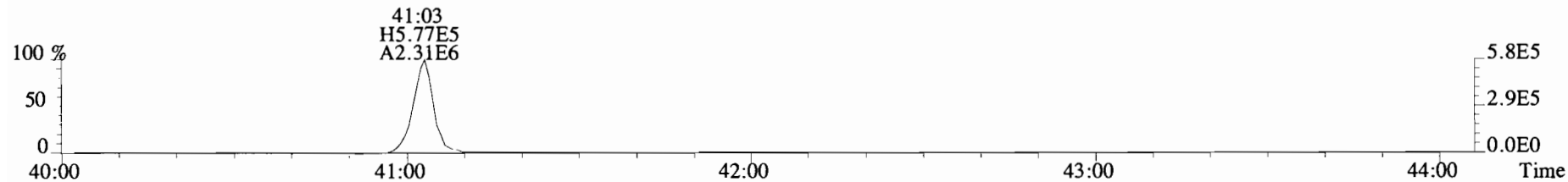
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



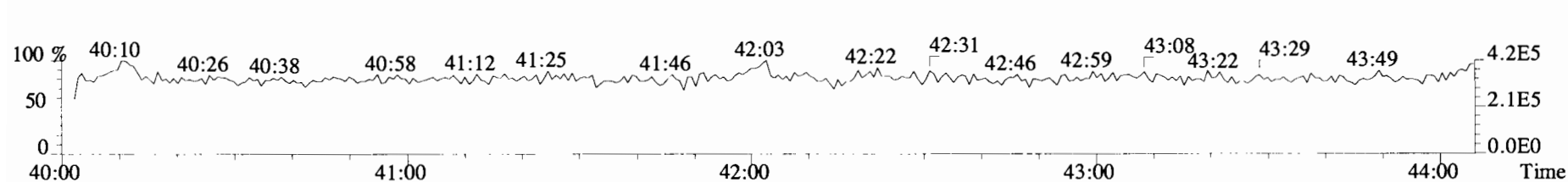
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



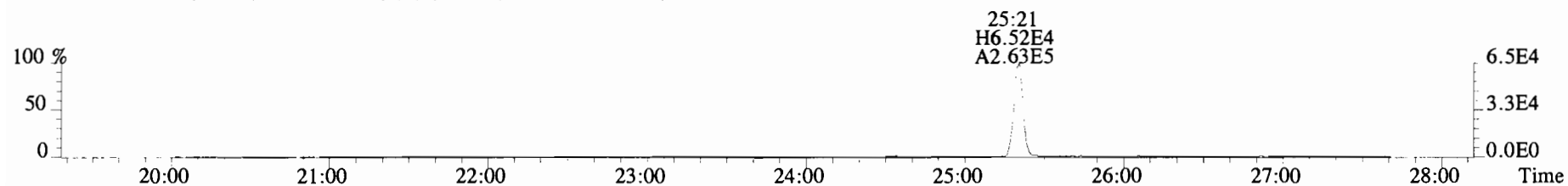
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



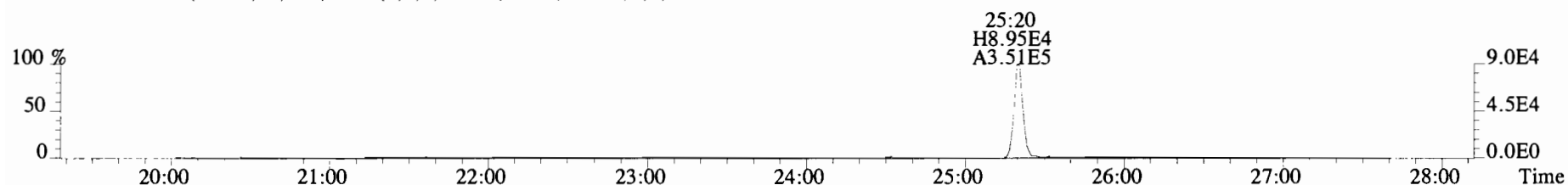
454.9728 S:2 F:5



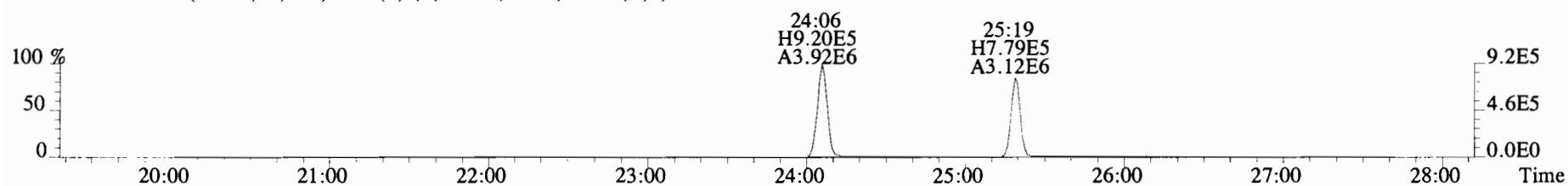
File:191204D1 #1-493 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



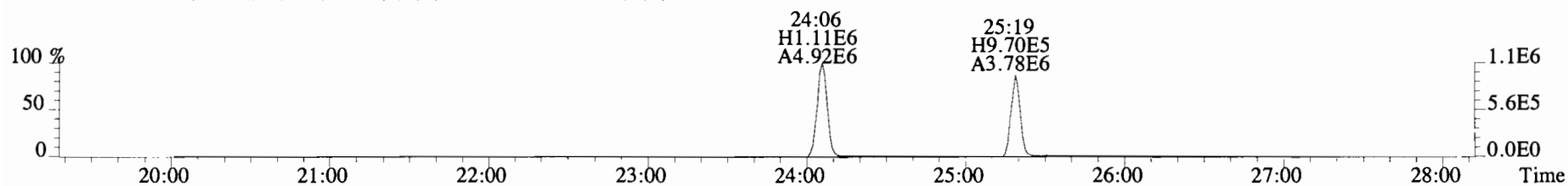
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



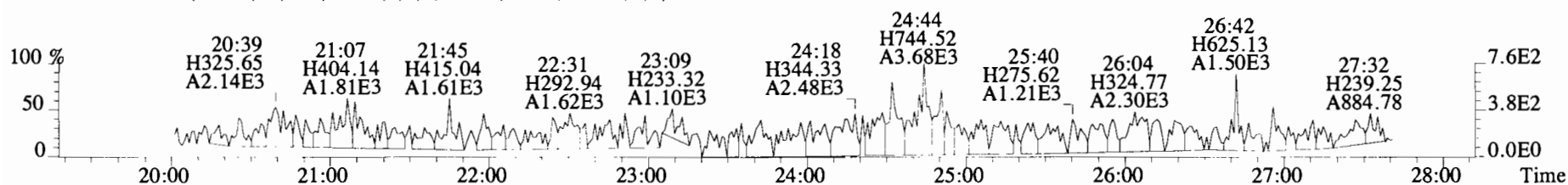
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



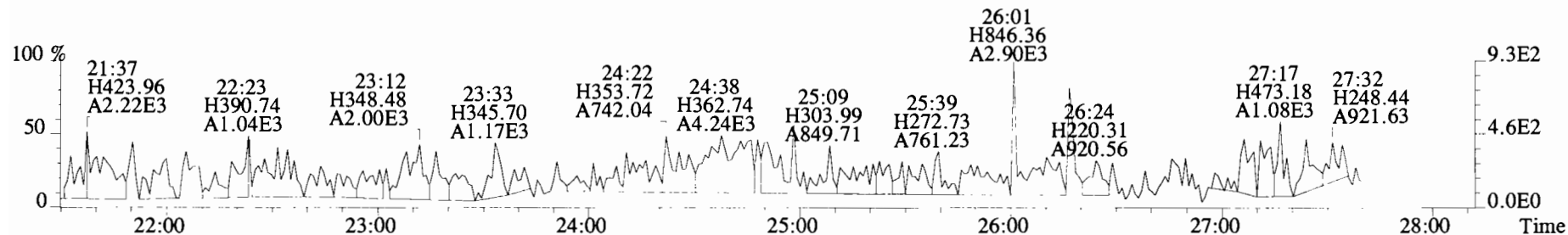
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



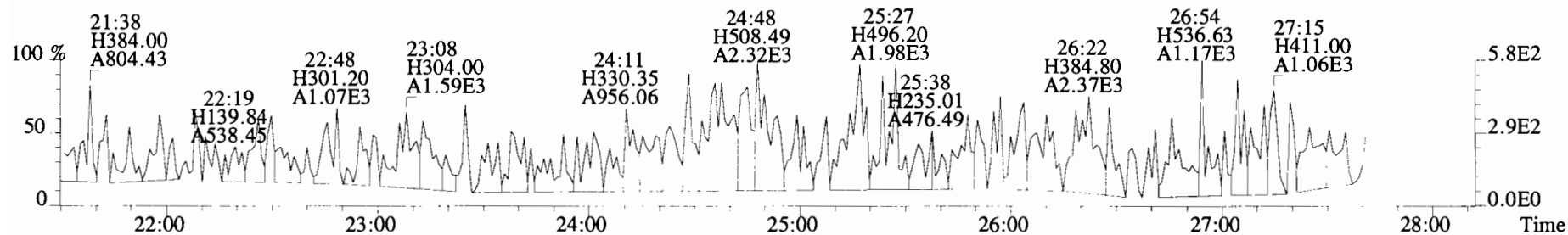
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



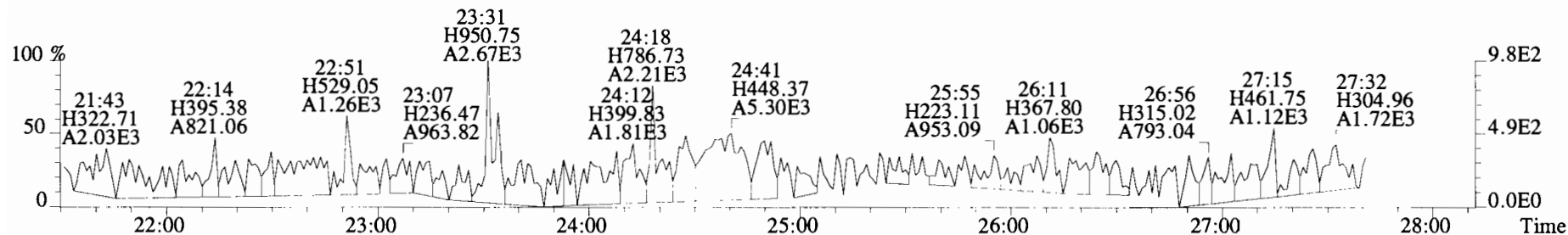
File:191204D1 #1-493 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
 339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



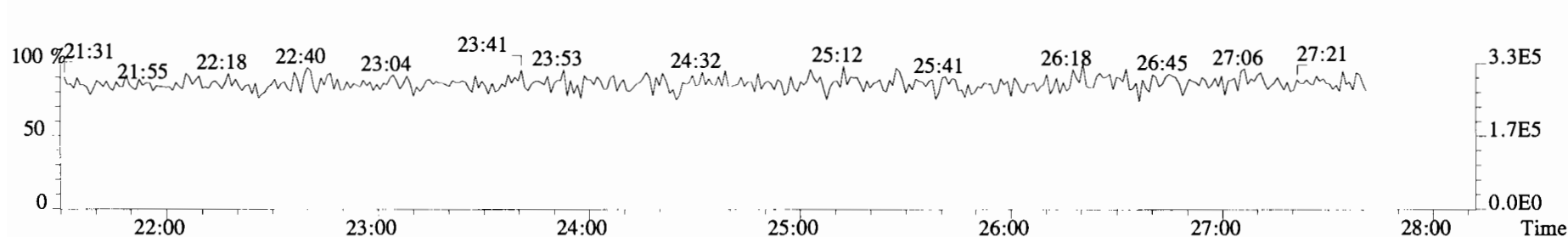
341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



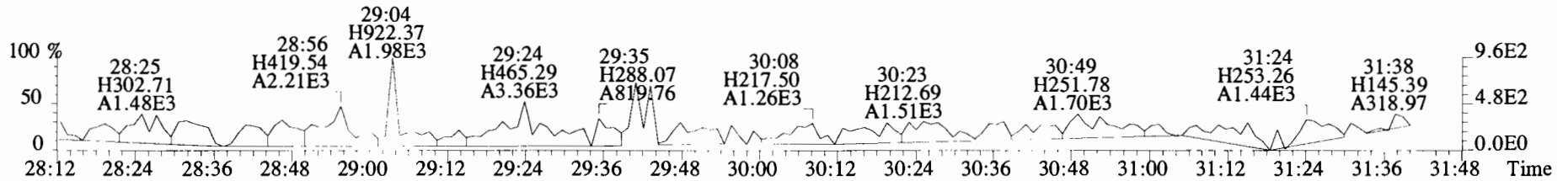
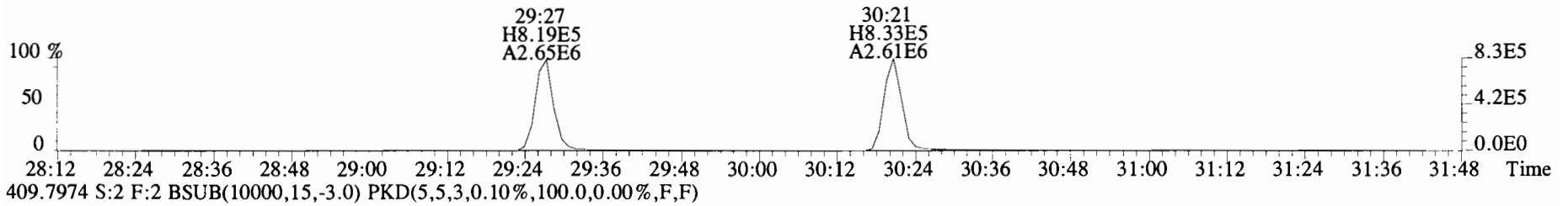
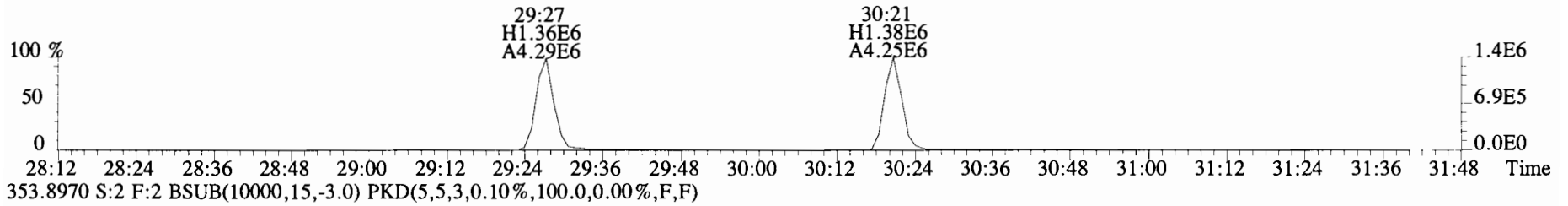
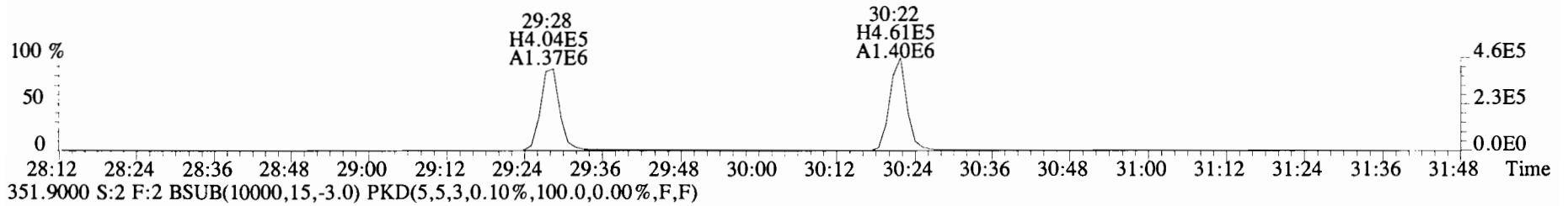
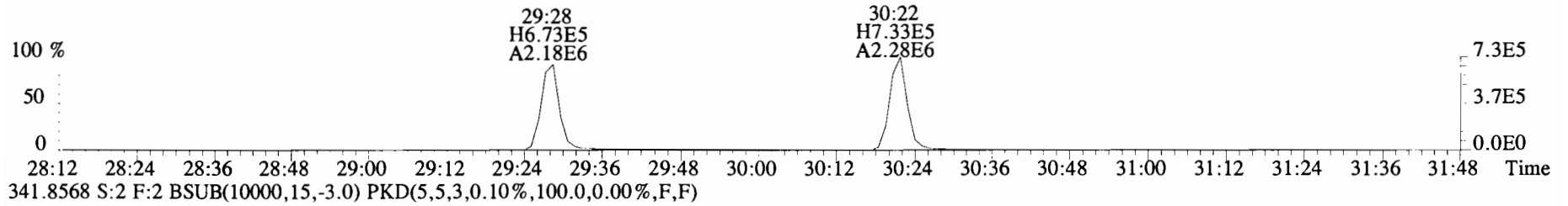
409.7974 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



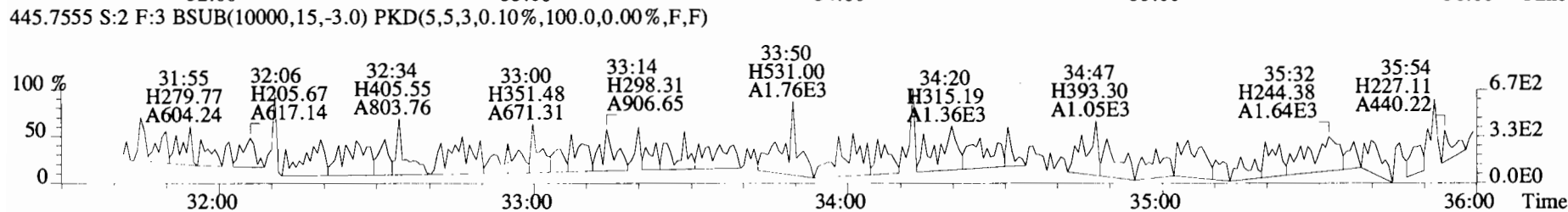
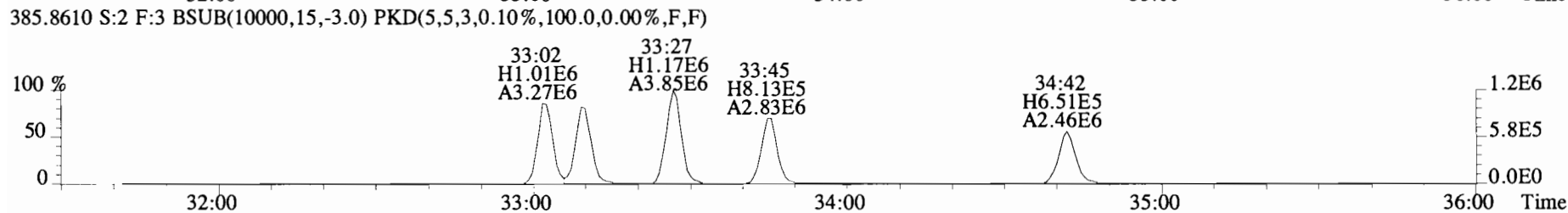
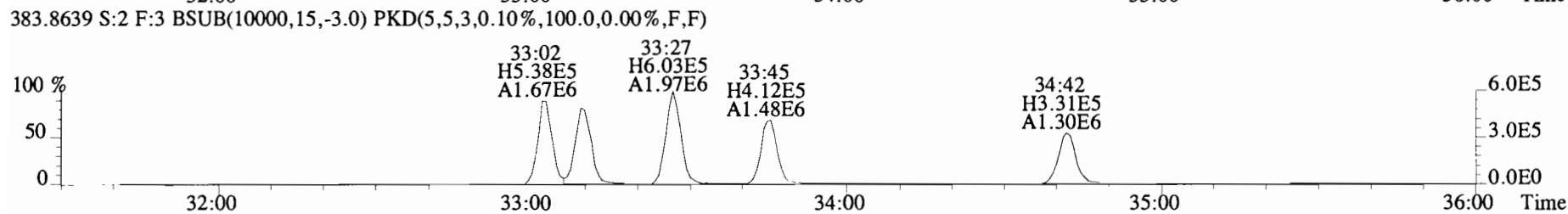
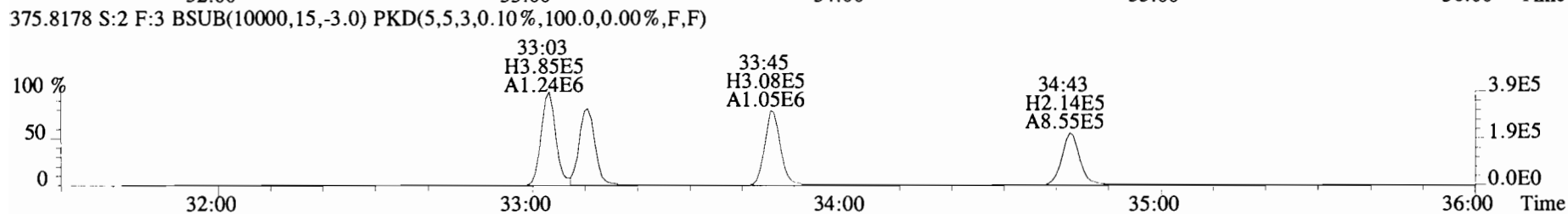
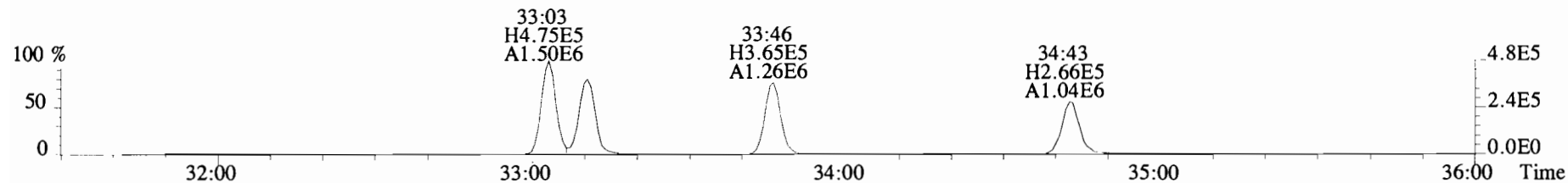
316.9824 S:2



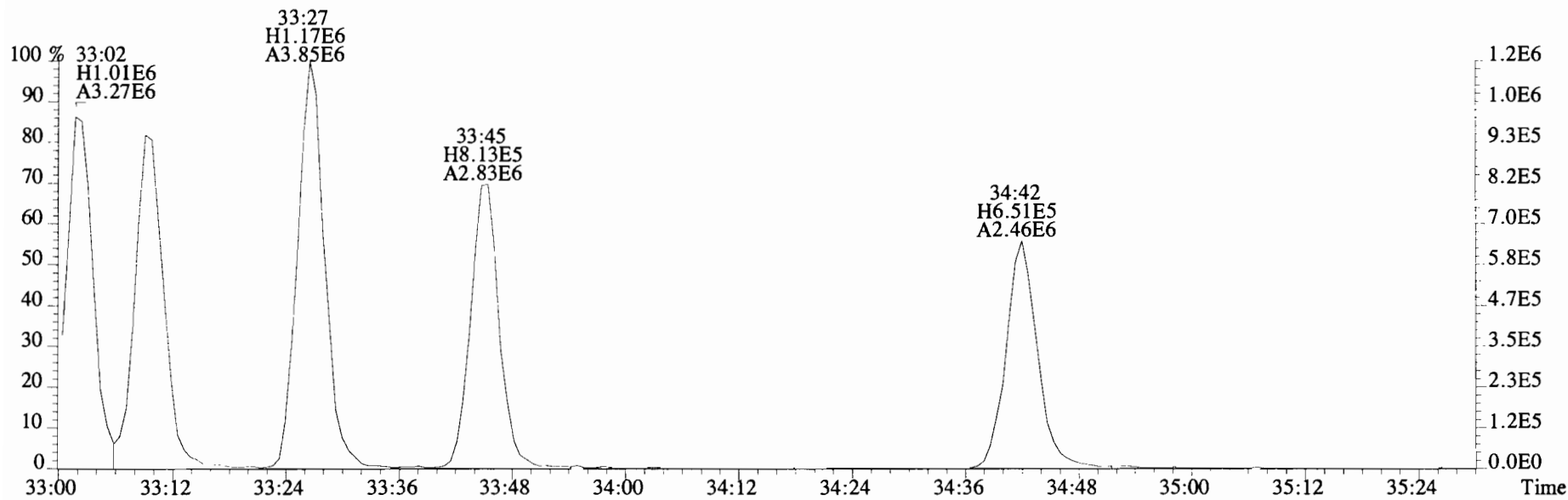
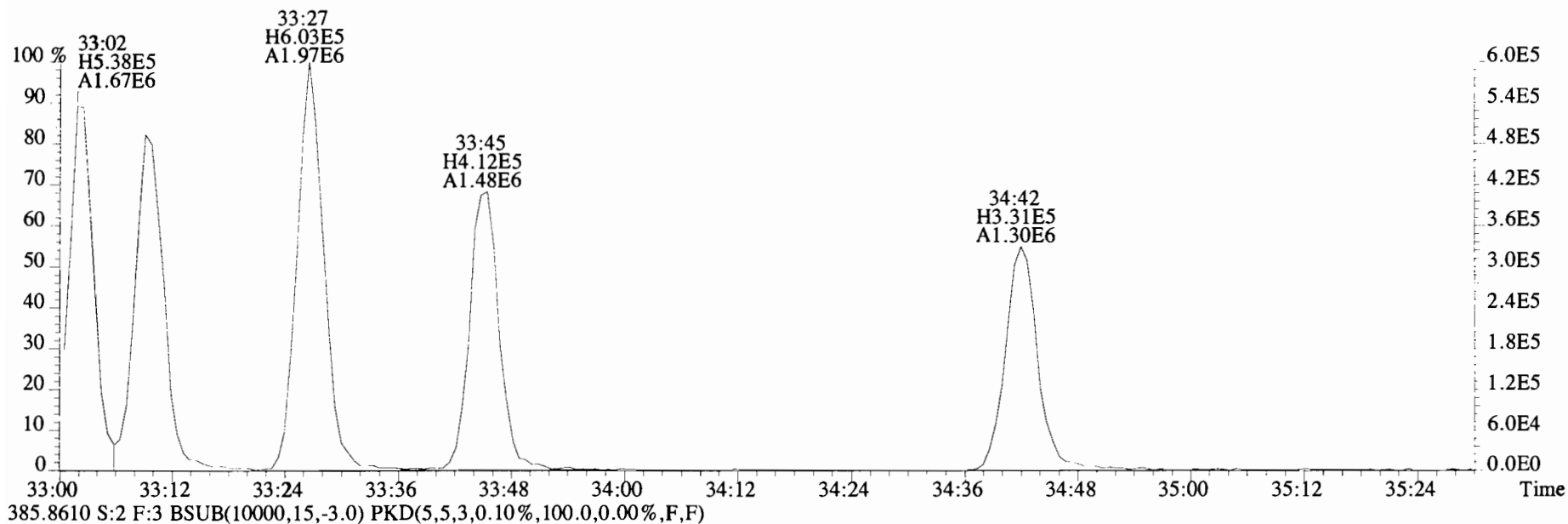
File:191204D1 #1-210 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



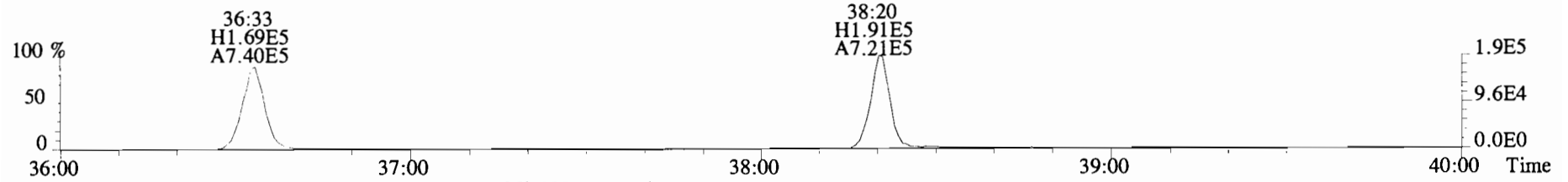
File:191204D1 #1-385 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



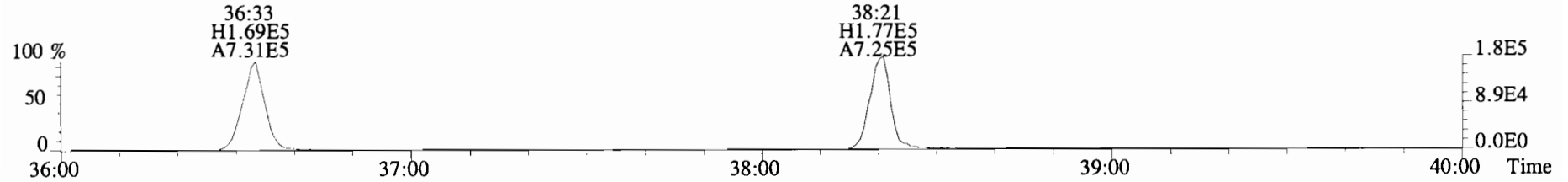
File:191204D1 #1-385 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



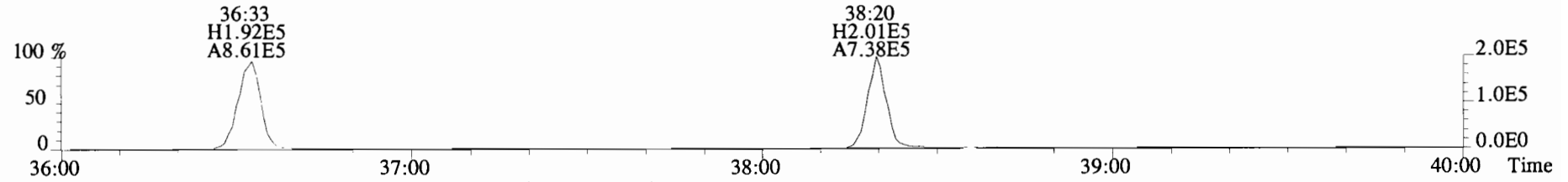
File:191204D1 #1-356 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



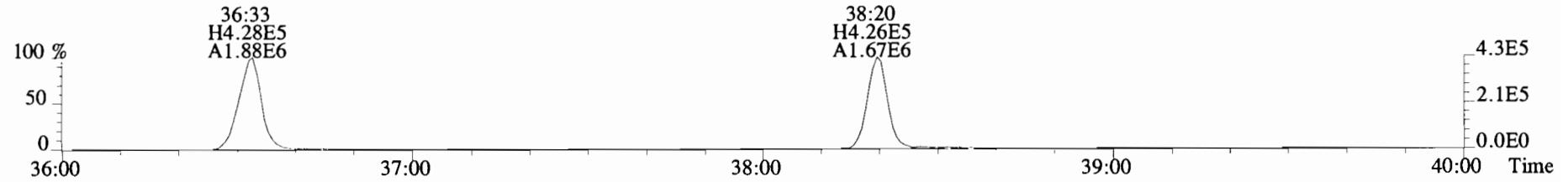
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



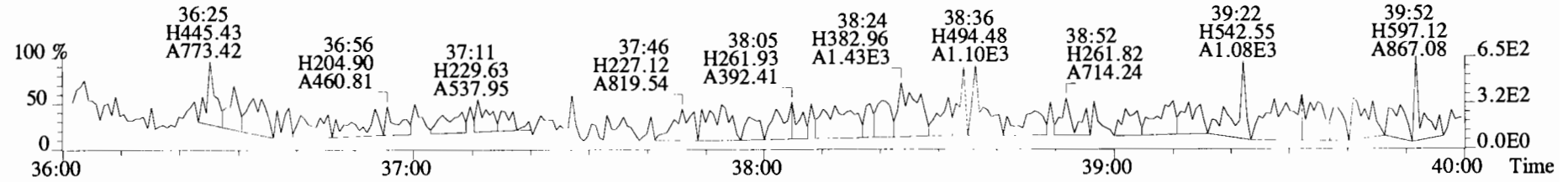
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



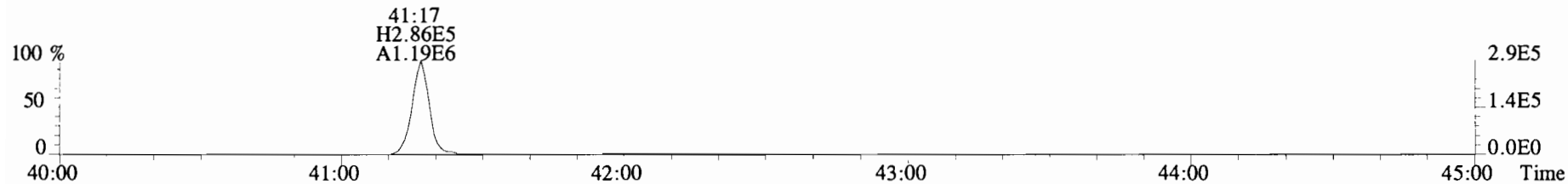
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



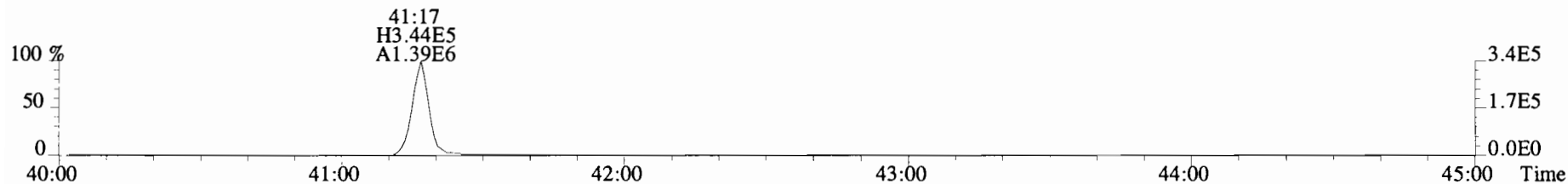
479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



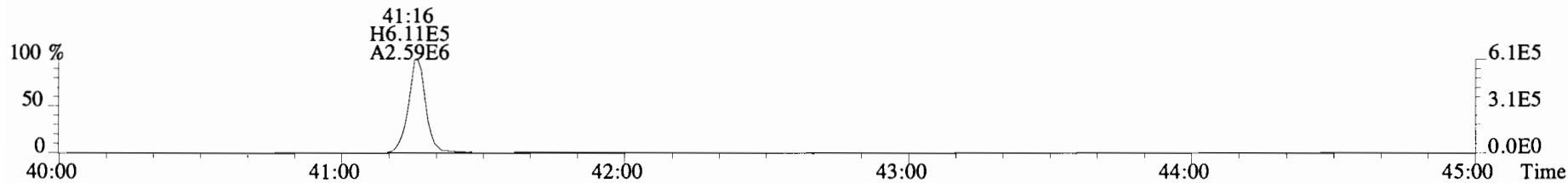
File:191204D1 #1-432 Acq: 4-DEC-2019 18:34:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9K0253-BS1 OPR 1 Exp:OCDD_DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



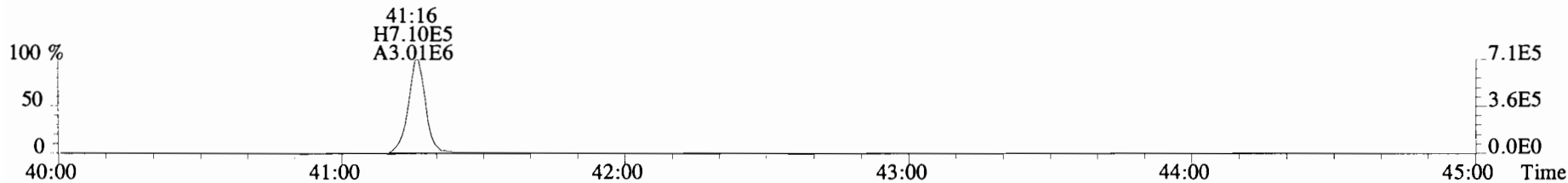
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



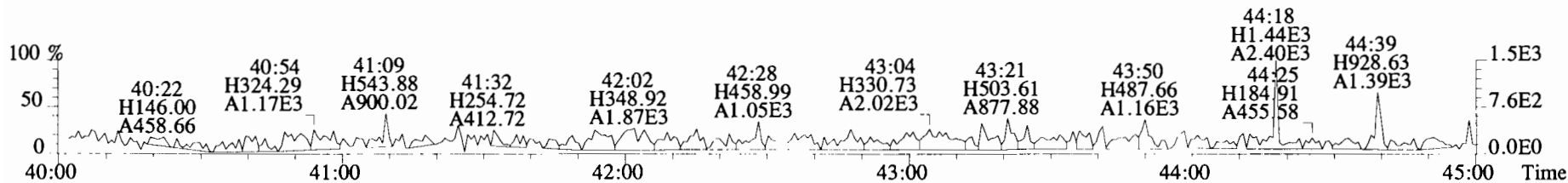
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



Client ID: PDI-FB-1911121146
Lab ID: 1904016-01

Filename: 191204D1 S:7 Acq: 4-DEC-19 22:33:38
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19

wt/vol: 1.041

ConCal: ST191204D1-1
EndCAL: NA

Page 6 of 6

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
2,3,7,8-TCDD	*	* n	0.91	Not F ₇	*		132 2.5	0.584	
1,2,3,7,8-PeCDD	*	* n	0.90	Not F ₇	*		176 2.5	0.828	
1,2,3,4,7,8-HxCDD	*	* n	1.10	Not F ₇	*		102 2.5	0.706	
1,2,3,6,7,8-HxCDD	*	* n	0.94	Not F ₇	*		102 2.5	0.817	
1,2,3,7,8,9-HxCDD	*	* n	0.96	Not F ₇	*		102 2.5	0.772	
1,2,3,4,6,7,8-HpCDD	*	* n	0.98	Not F ₇	*		149 2.5	1.31	
OCDD	*	* n	0.96	Not F ₇	*		125 2.5	1.61	
2,3,7,8-TCDF	*	* n	0.95	Not F ₇	*		226 2.5	0.687	
1,2,3,7,8-PeCDF	*	* n	0.96	Not F ₇	*		233 2.5	0.818	
2,3,4,7,8-PeCDF	*	* n	1.01	Not F ₇	*		233 2.5	0.891	
1,2,3,4,7,8-HxCDF	*	* n	1.18	Not F ₇	*		113 2.5	0.301	
1,2,3,6,7,8-HxCDF	*	* n	1.07	Not F ₇	*		113 2.5	0.364	
2,3,4,6,7,8-HxCDF	*	* n	1.11	Not F ₇	*		113 2.5	0.391	
1,2,3,7,8,9-HxCDF	*	* n	1.06	Not F ₇	*		113 2.5	0.544	
1,2,3,4,6,7,8-HpCDF	*	* n	1.13	Not F ₇	*		127 2.5	0.843	
1,2,3,4,7,8,9-HpCDF	*	* n	1.28	Not F ₇	*		127 2.5	0.667	
OCDF	*	* n	0.95	Not F ₇	*		126 2.5	1.27	

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		132	0.584
Total Penta-Dioxins	*	*		176	0.828
Total Hexa-Dioxins	*	*		102	0.706
Total Hepta-Dioxins	*	*		149	1.31
Total Tetra-Furans	*	*		226	0.687
Total Penta-Furans	0.0000	0.0000		233	0.855
Total Hexa-Furans	*	*		113	0.391
Total Hepta-Furans	*	*		127	0.758

IS	13C-2,3,7,8-TCDD	7.49e+06	0.77 y	1.10	26:06	1734.7
IS	13C-1,2,3,7,8-PeCDD	6.85e+06	0.63 y	0.88	30:38	1971.7
IS	13C-1,2,3,4,7,8-HxCDD	4.98e+06	1.26 y	0.64	33:54	1670.2
IS	13C-1,2,3,6,7,8-HxCDD	5.39e+06	1.29 y	0.86	34:01	1356.1
IS	13C-1,2,3,7,8,9-HxCDD	5.48e+06	1.24 y	0.81	34:18	1462.4
IS	13C-1,2,3,4,6,7,8-HpCDD	4.15e+06	1.07 y	0.65	37:46	1364.2
IS	13C-OCDD	6.38e+06	0.91 y	0.58	41:02	2367.8
IS	13C-2,3,7,8-TCDF	1.15e+07	0.79 y	1.03	25:19	1677.3
IS	13C-1,2,3,7,8-PeCDF	1.09e+07	1.64 y	0.85	29:26	1933.5
IS	13C-2,3,4,7,8-PeCDF	1.06e+07	1.62 y	0.85	30:20	1888.0
IS	13C-1,2,3,4,7,8-HxCDF	7.42e+06	0.50 y	0.83	33:02	1919.2
IS	13C-1,2,3,6,7,8-HxCDF	7.50e+06	0.51 y	1.03	33:09	1559.6
IS	13C-2,3,4,6,7,8-HxCDF	6.76e+06	0.52 y	0.95	33:45	1526.9
IS	13C-1,2,3,7,8,9-HxCDF	5.93e+06	0.51 y	0.83	34:41	1540.8
IS	13C-1,2,3,4,6,7,8-HpCDF	4.29e+06	0.44 y	0.76	36:31	1219.5
IS	13C-1,2,3,4,7,8,9-HpCDF	3.82e+06	0.42 y	0.58	38:18	1414.5
IS	13C-OCDF	8.33e+06	0.90 y	0.69	41:15	2602.6

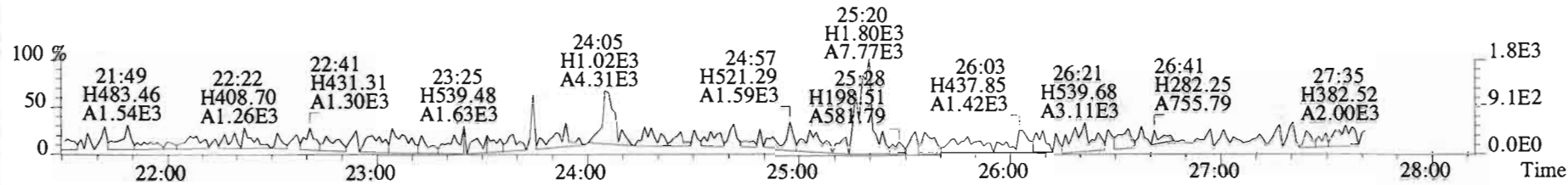
Rec Qual

90.3	
103	
86.9	
70.6	
76.1	
71.0	
61.6	
87.3	
101	
98.2	
99.9	
81.1	
79.4	
80.2	
63.4	
73.6	
67.7	

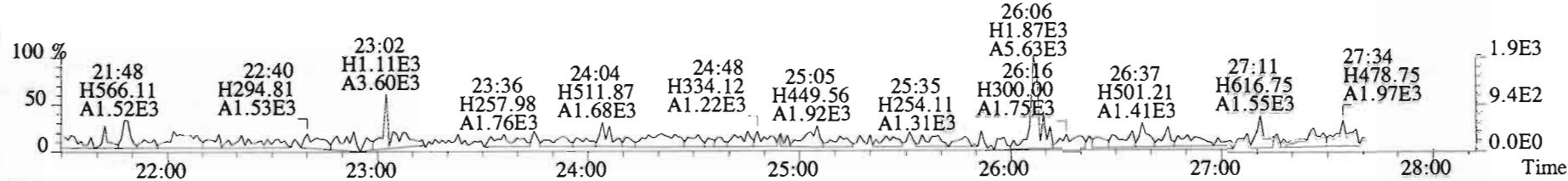
C/Up	37C1-2,3,7,8-TCDD	3.56e+06		1.20	26:07	753.71
RS/RT	13C-1,2,3,4-TCDD	7.57e+06	0.79 y	1.00	25:32	1922.1
RS	13C-1,2,3,4-TCDF	1.27e+07	0.80 y	1.00	24:06	1922.1
RS/RT	13C-1,2,3,4,6,9-HxCDF	8.93e+06	0.51 y	1.00	33:26	1922.1

Integrations Reviewed
by DB by CT
Analyst: DB Analyst: CT
Date: 12/5/19 Date: 12/20/19

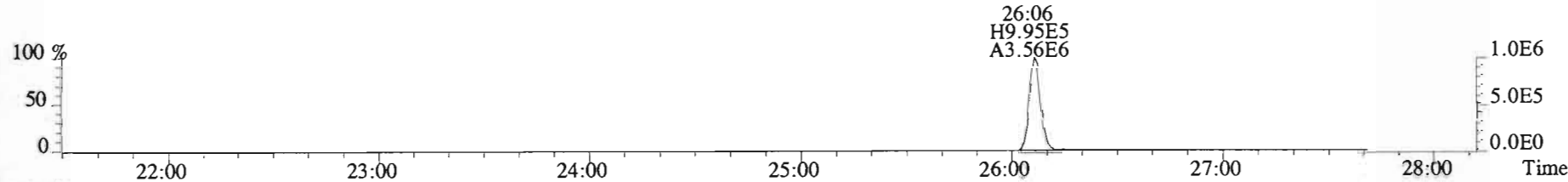
File:191204D1 #1-493 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 Exp:OCDD_DB5
 319.8965 S:7 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



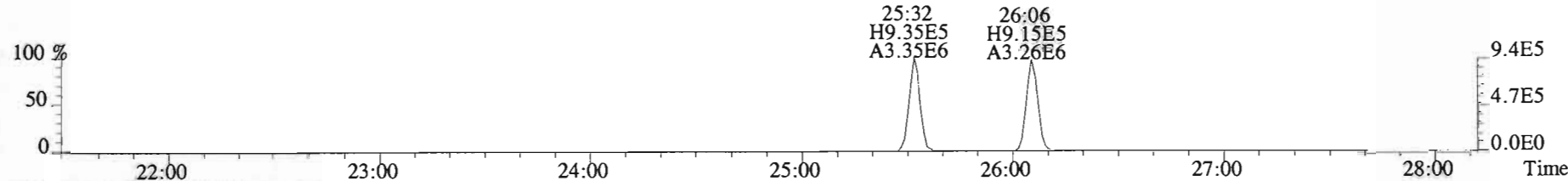
321.8936 S:7 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



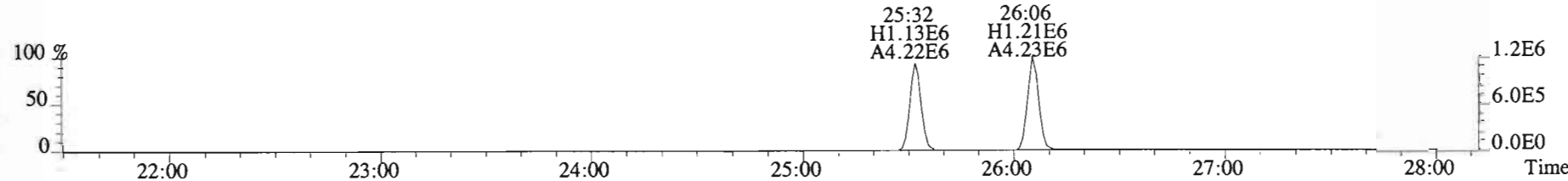
327.8847 S:7 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



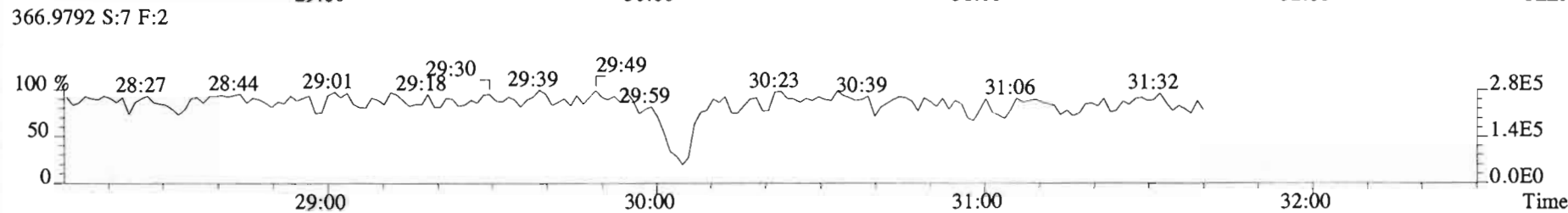
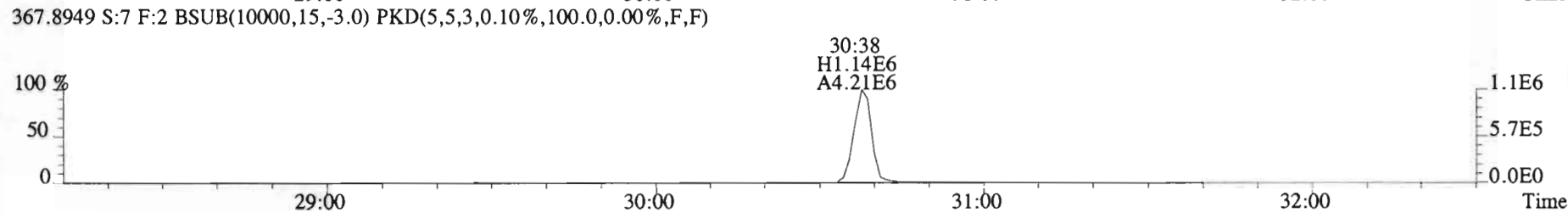
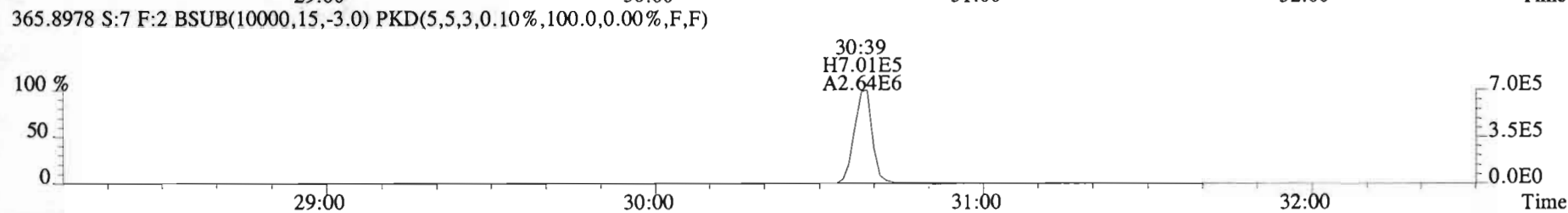
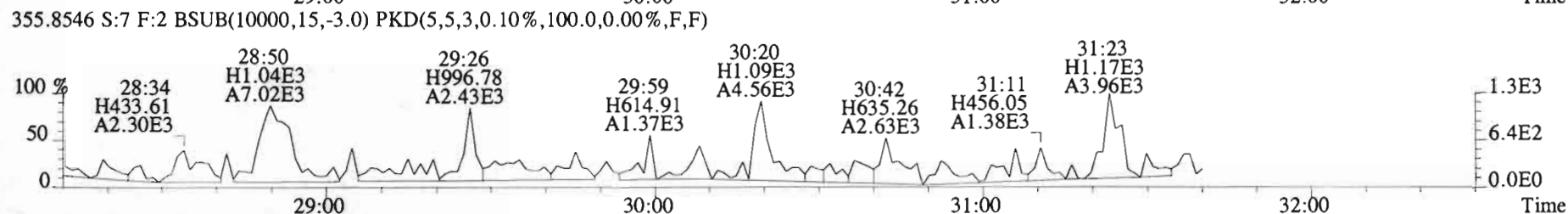
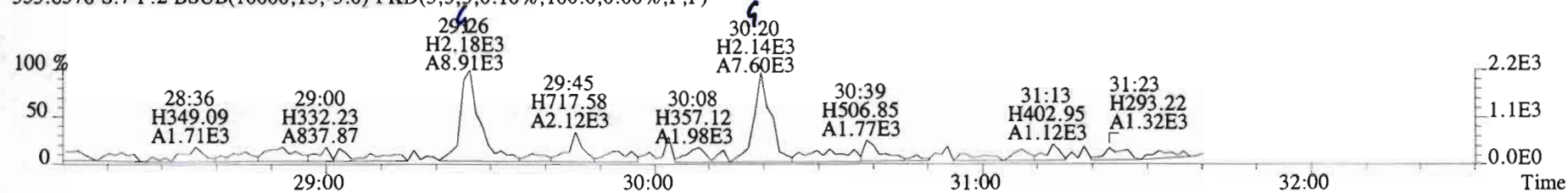
331.9368 S:7 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



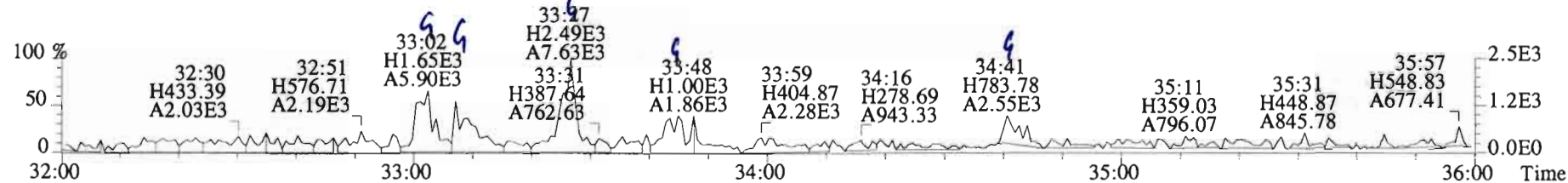
333.9339 S:7 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



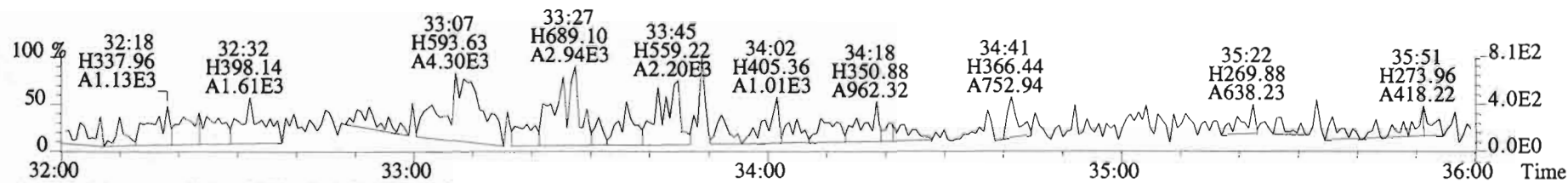
File:191204D1 #1-210 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 Exp:OCDD_DB5
 353.8576 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



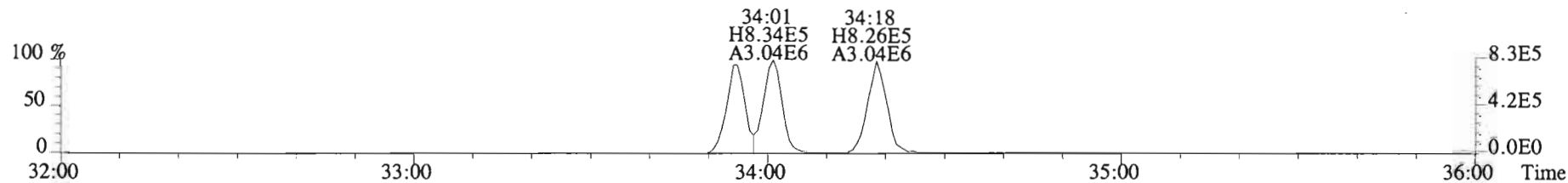
File:191204D1 #1-385 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 Exp:OCDD_DB5
 389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



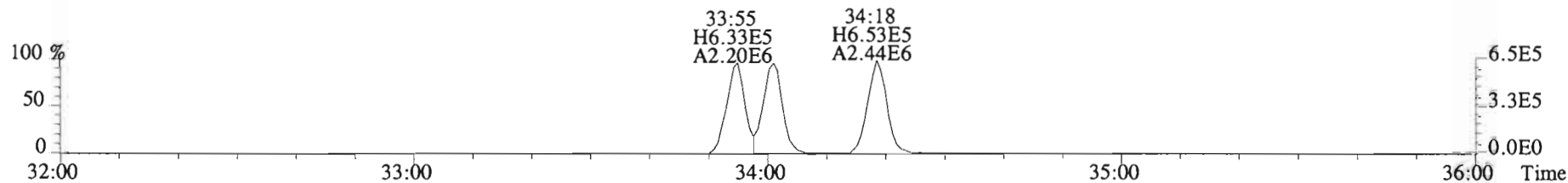
391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



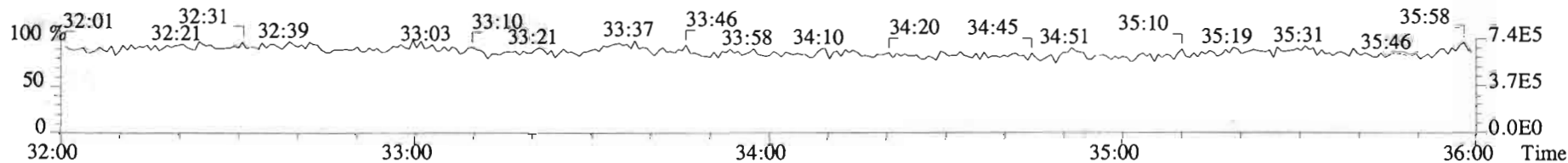
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



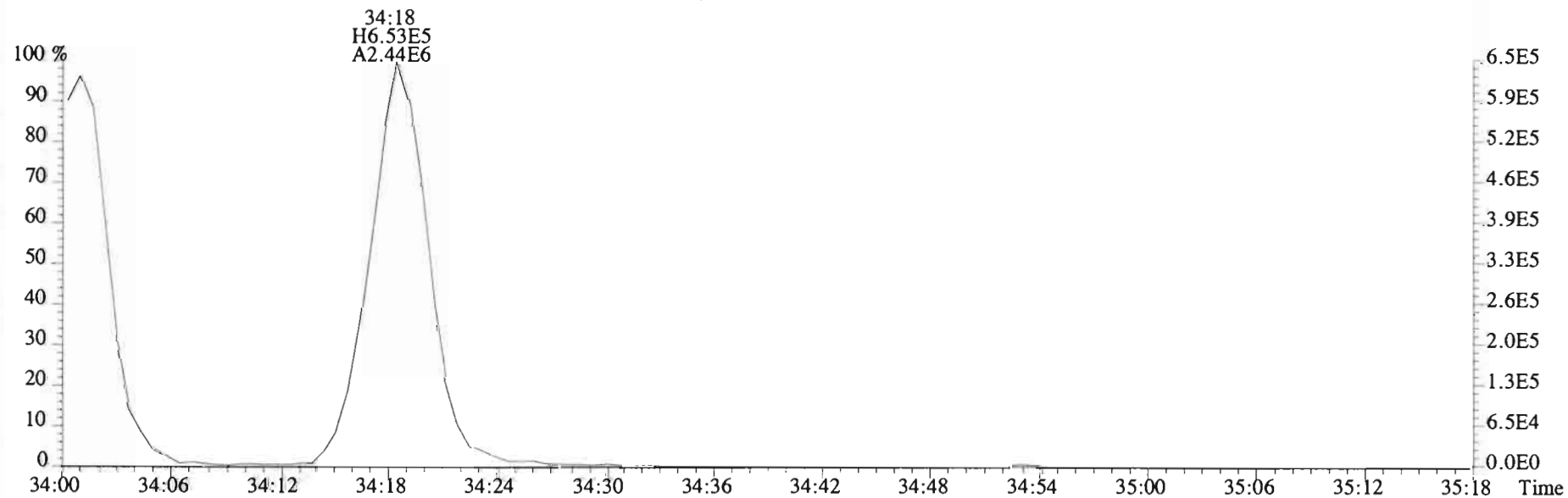
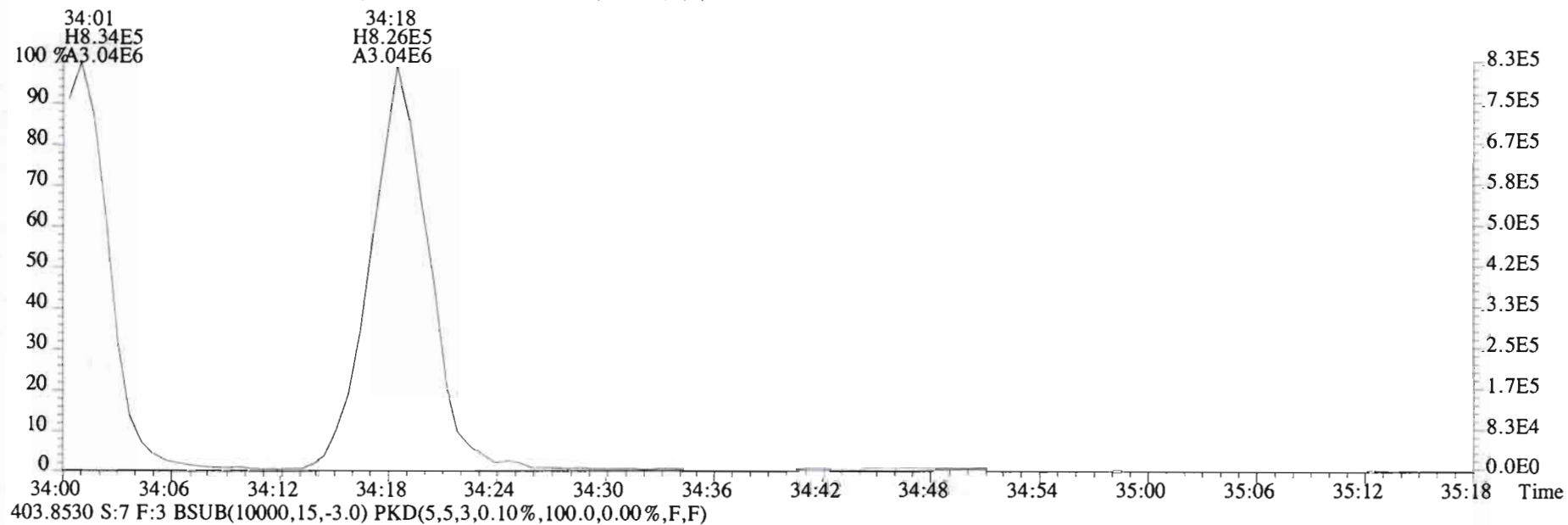
403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



392.9760 S:7 F:3



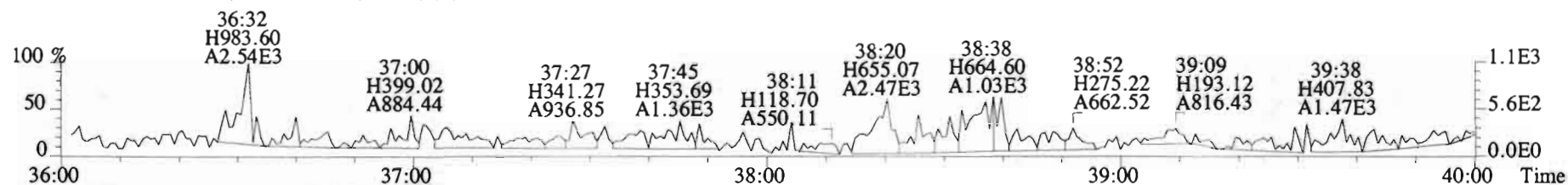
File:191204D1 #1-385 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 Exp:OCDD_DB5
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



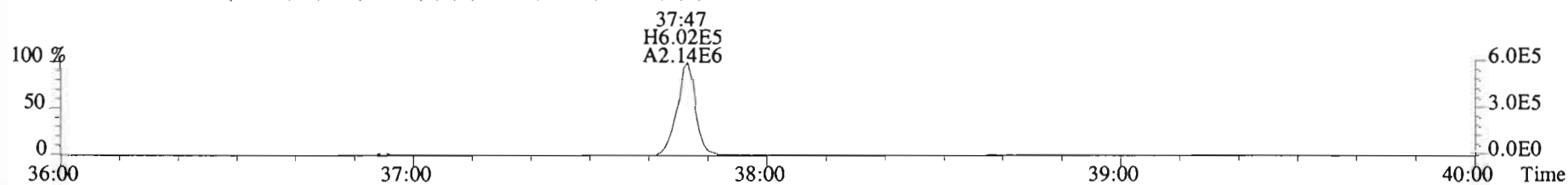
File:191204D1 #1-356 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 Exp:OCDD_DB5
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



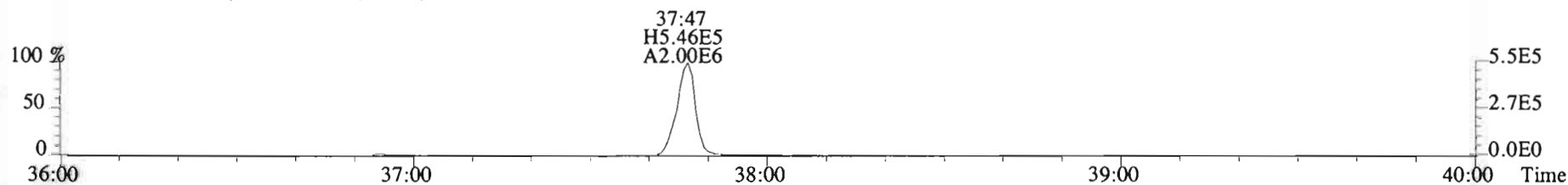
425.7737 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



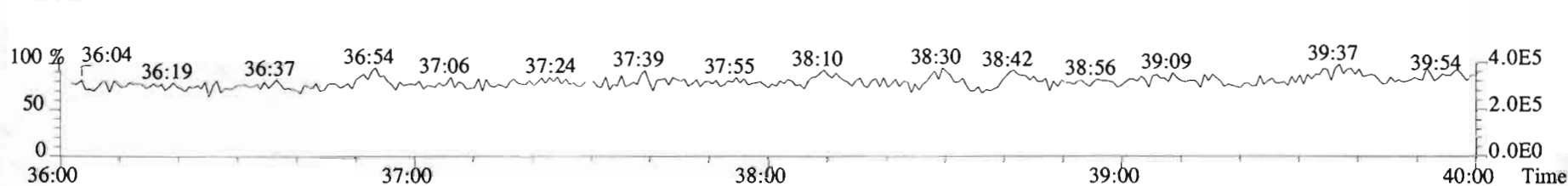
435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



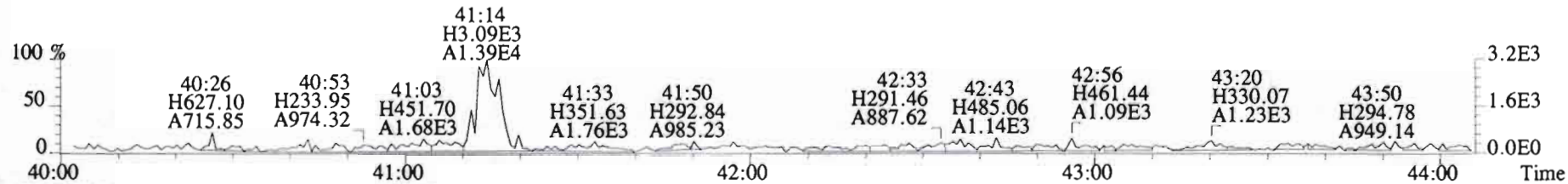
437.8140 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



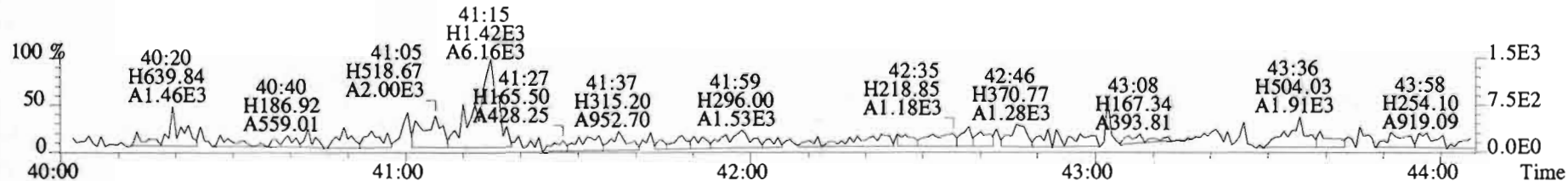
454.9728 S:7 F:4



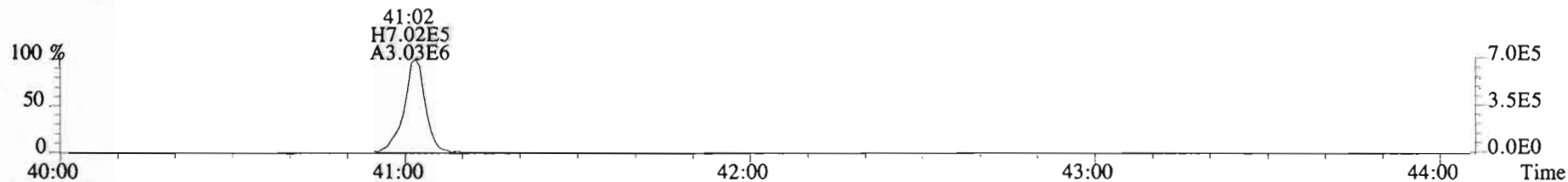
File:191204D1 #1-431 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 Exp:OCDD_DB5
 457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



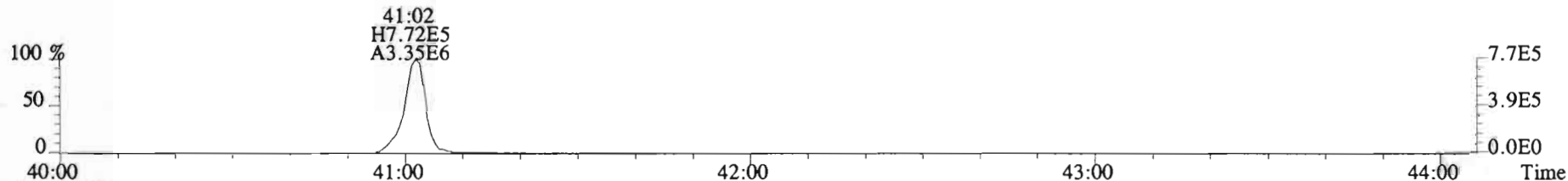
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



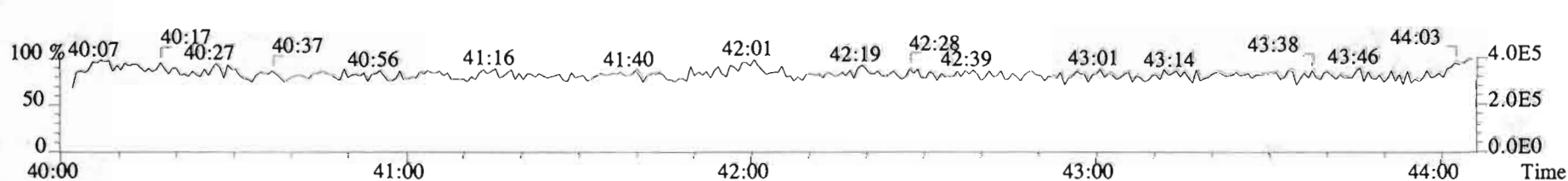
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



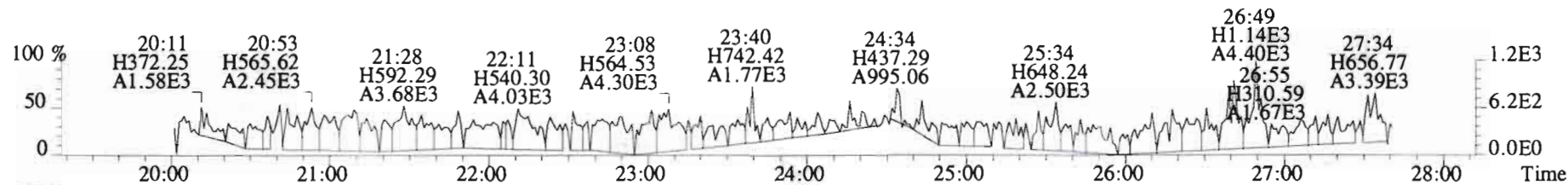
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



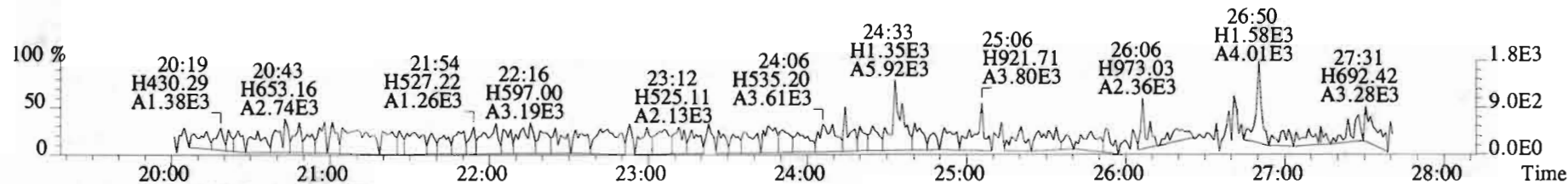
454.9728 S:7 F:5



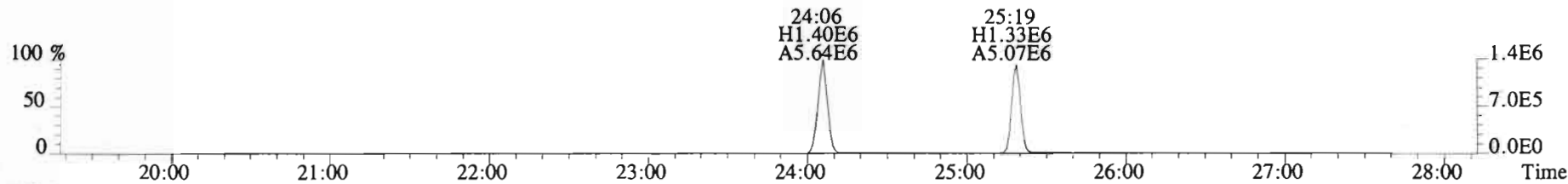
File:191204D1 #1-493 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 Exp:OCDD_DB5
 303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



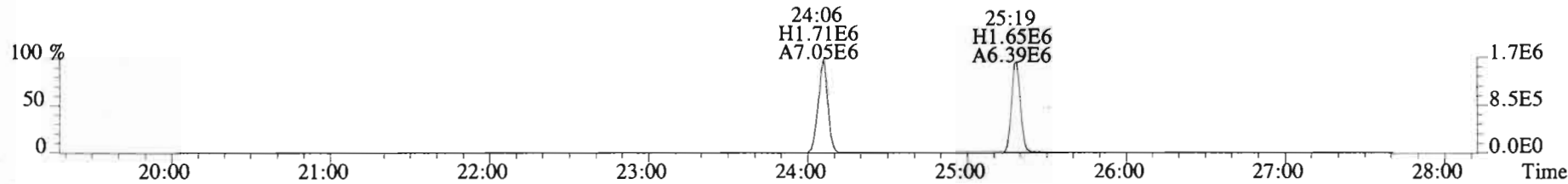
305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



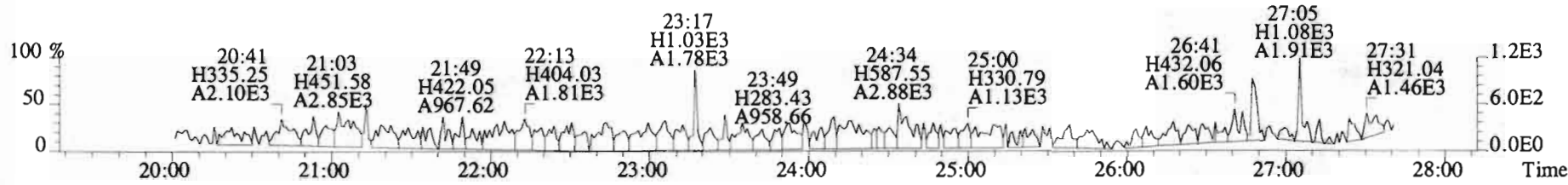
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



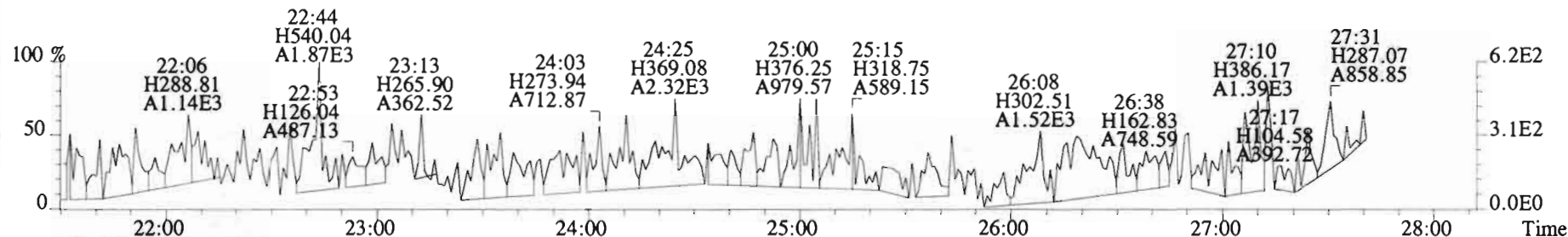
317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



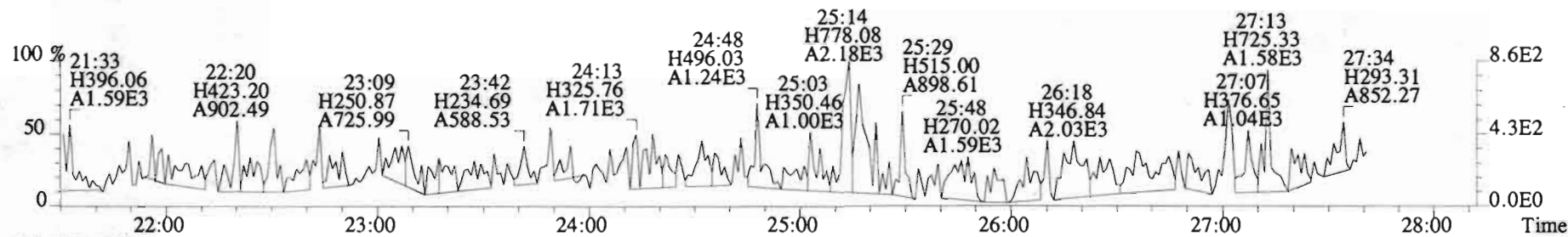
375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



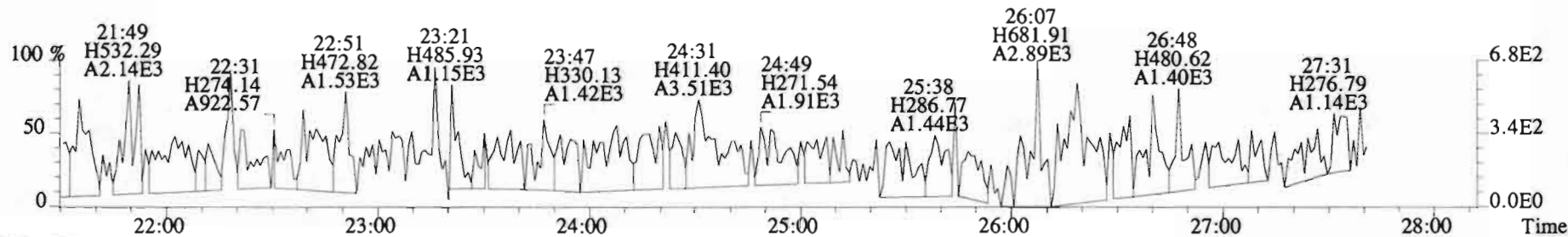
File:191204D1 #1-493 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 Exp:OCDD_DB5
 339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



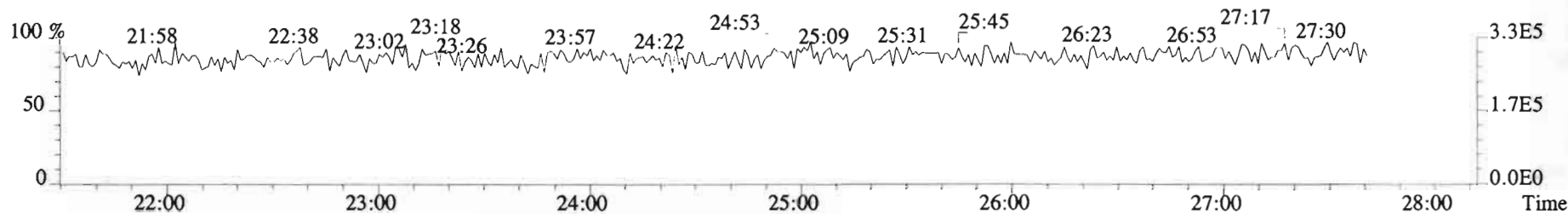
341.8568 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



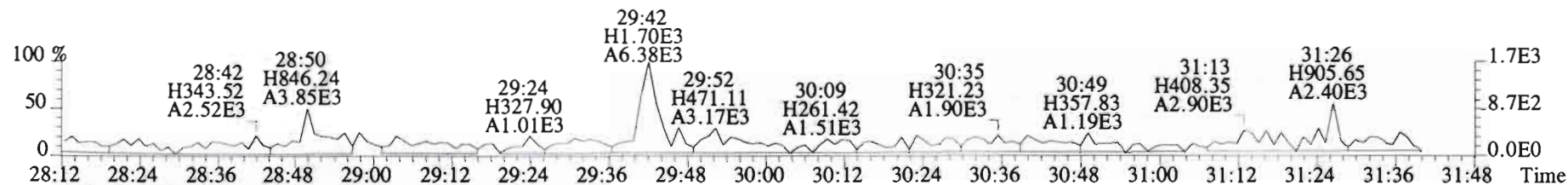
409.7974 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



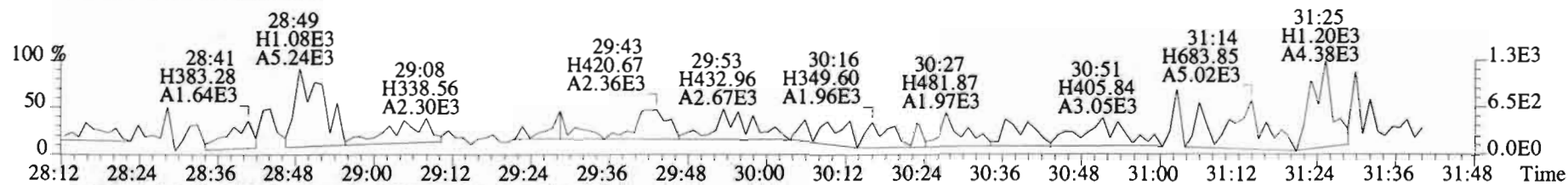
316.9824 S:7



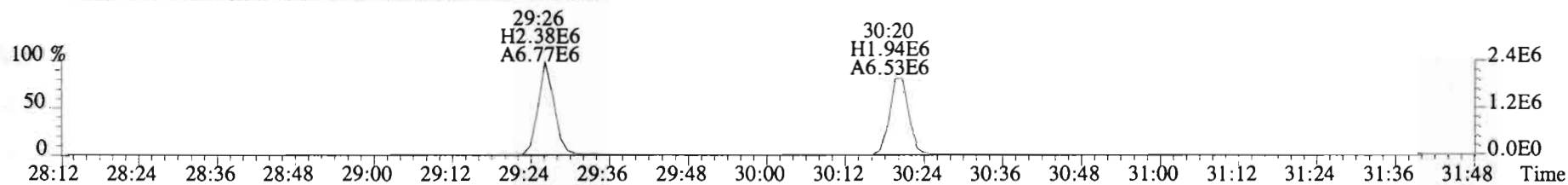
File:191204D1 #1-210 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text: Vista Analytical Laboratory VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 Exp:OCDD_DB5
 339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



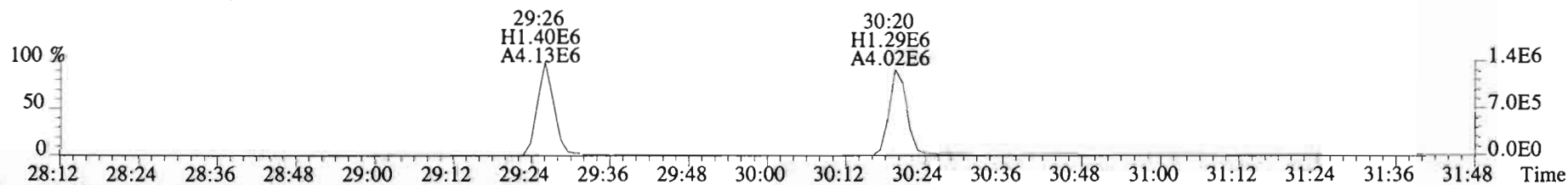
341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



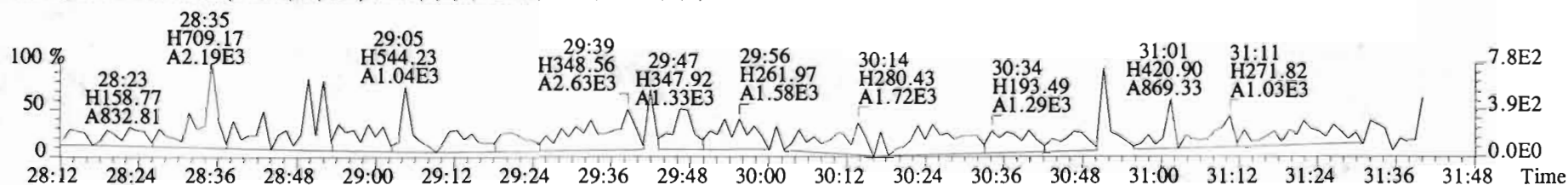
351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



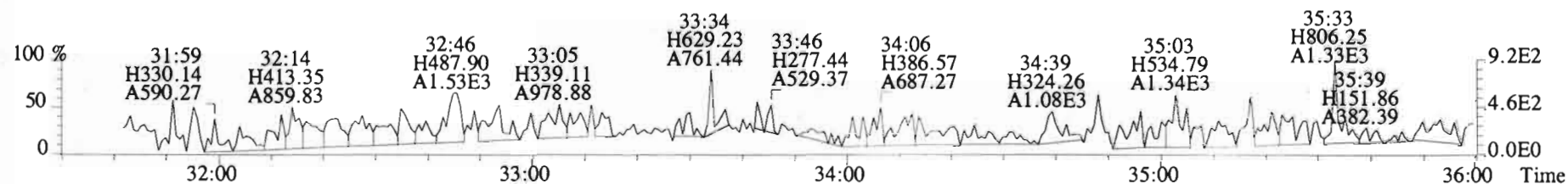
353.8970 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



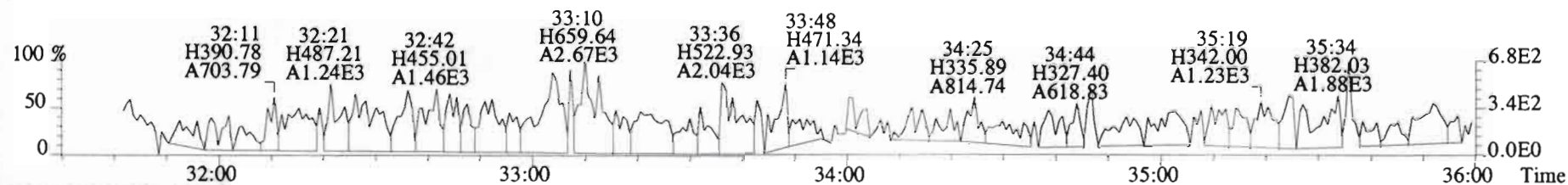
409.7974 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



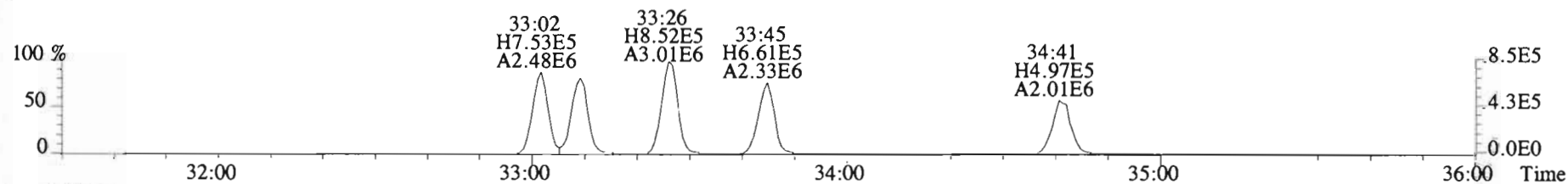
File:191204D1 #1-385 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 Exp:OCDD_DB5
 373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



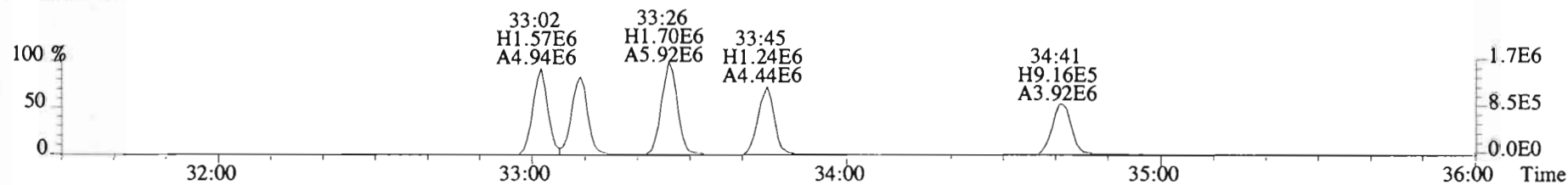
375.8178 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



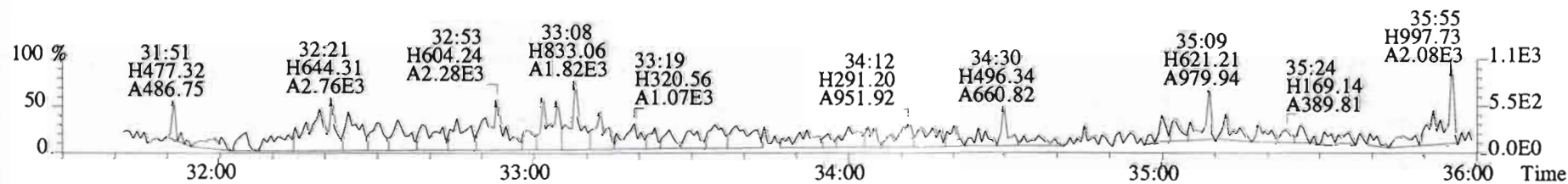
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



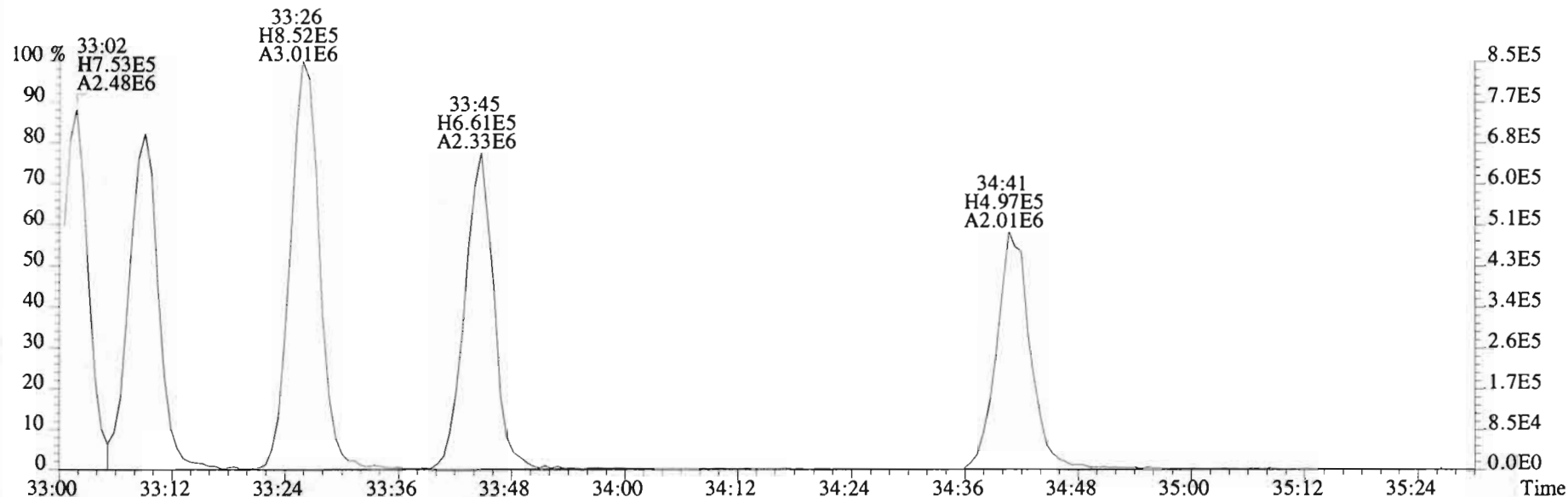
385.8610 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



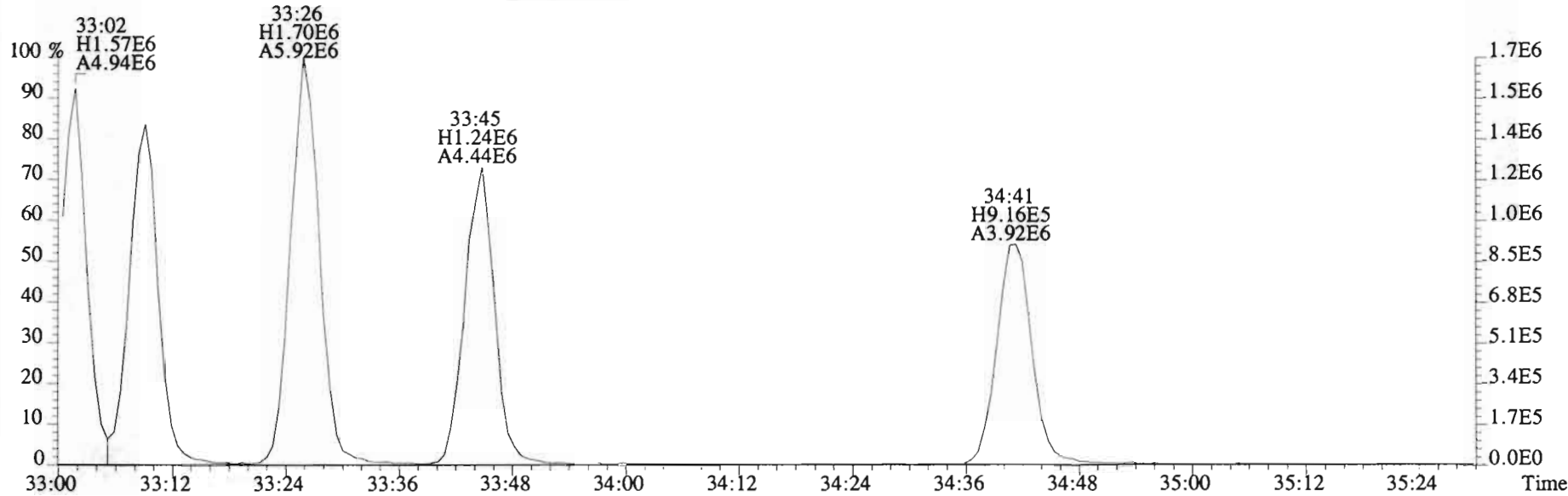
445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



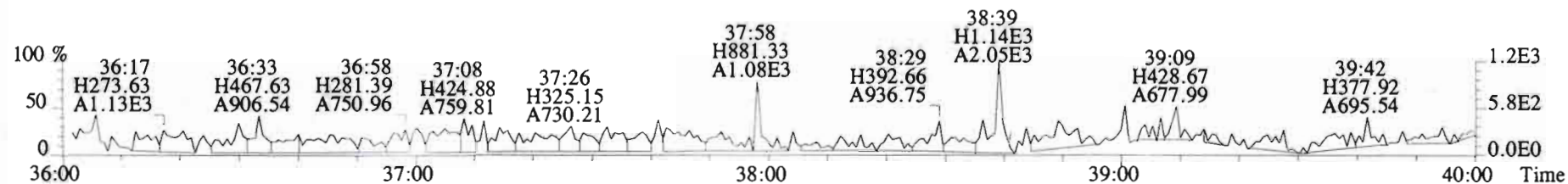
File:191204D1 #1-385 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 Exp:OCDD_DB5
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



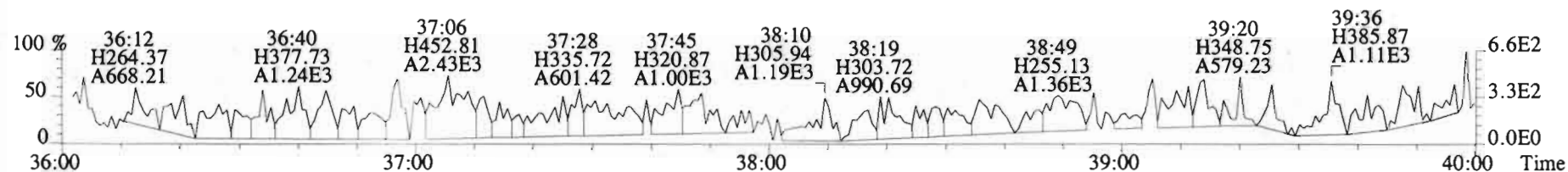
385.8610 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



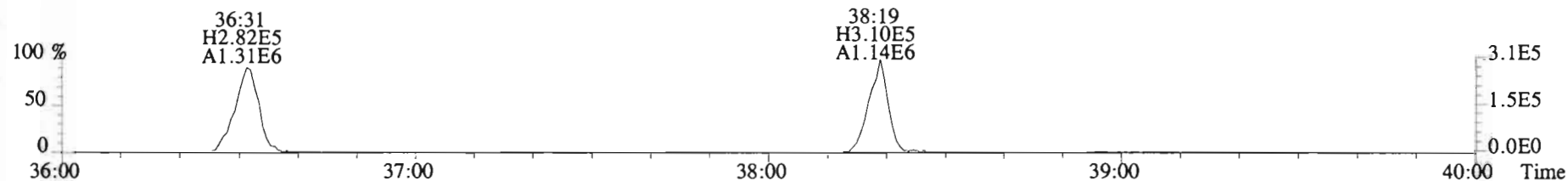
File:191204D1 #1-356 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 Exp:OCDD_DB5
 407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



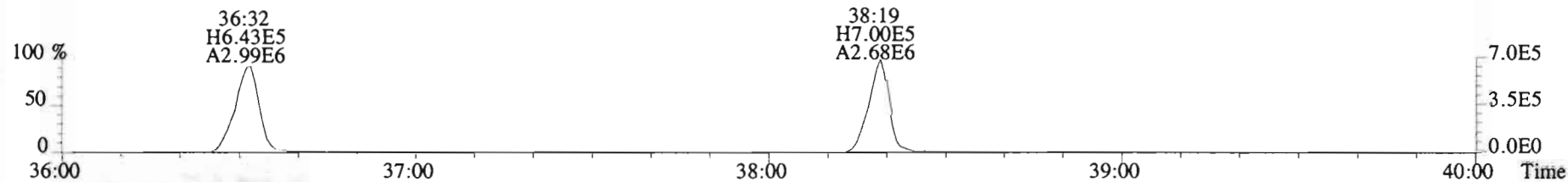
409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



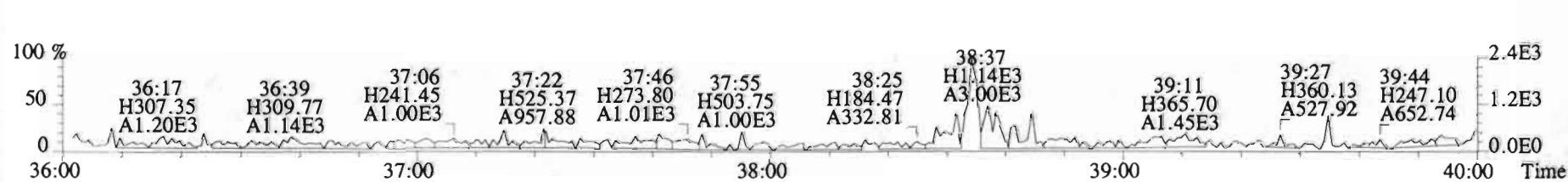
417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



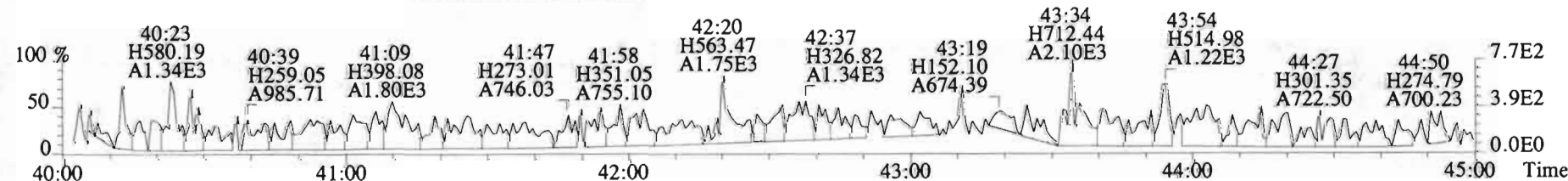
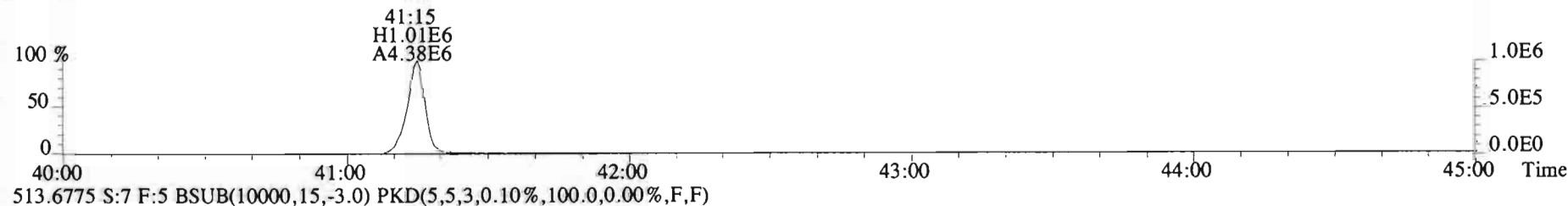
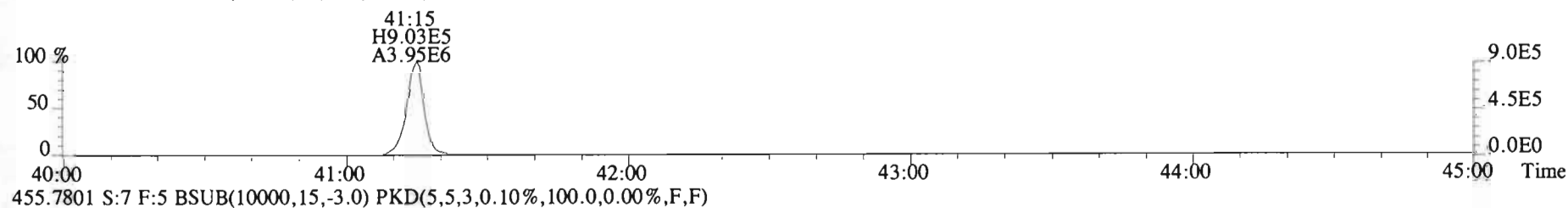
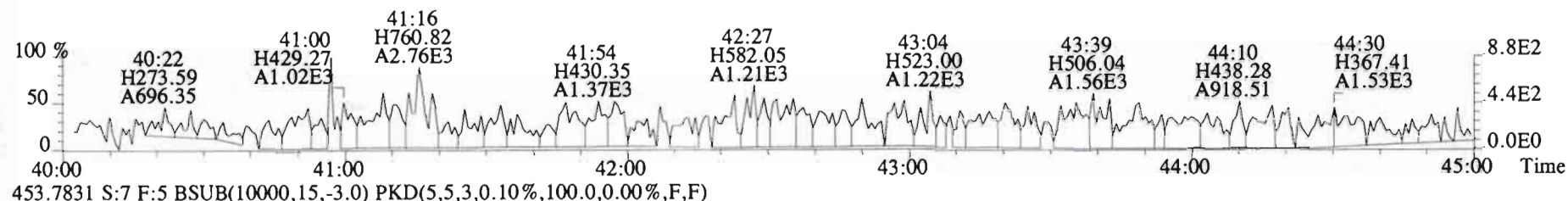
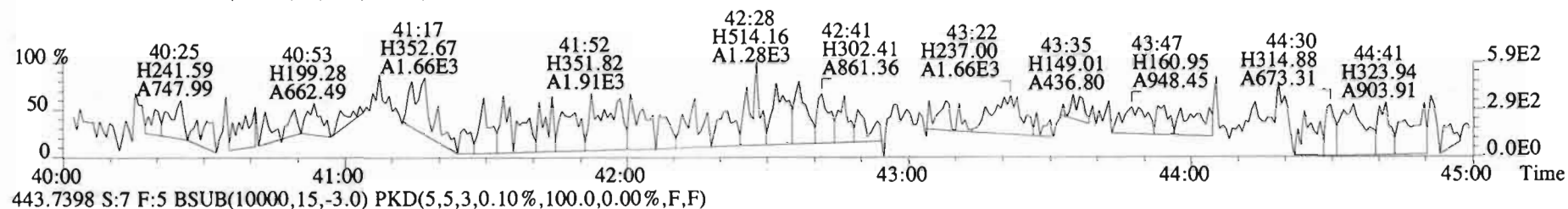
419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191204D1 #1-431 Acq: 4-DEC-2019 22:33:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-01 PDI-FB-1911121146 1.04055 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)



Client ID: PDI-RB-1911120944
Lab ID: 1904016-02

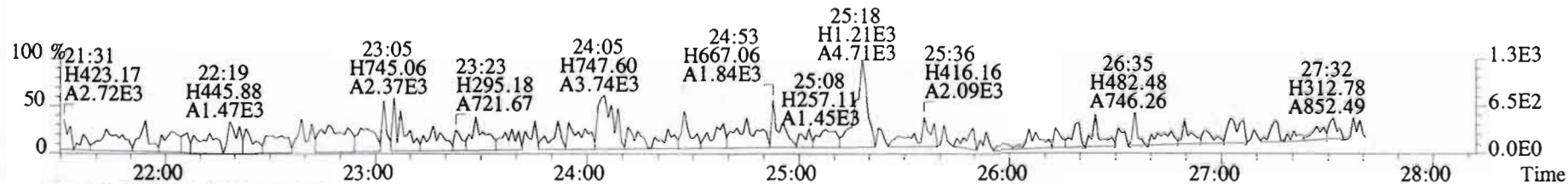
Filename: 191204D1 S:8 Acq: 4-DEC-19 23:21:23
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.026

ConCal: ST191204D1-1
EndCAL: NA

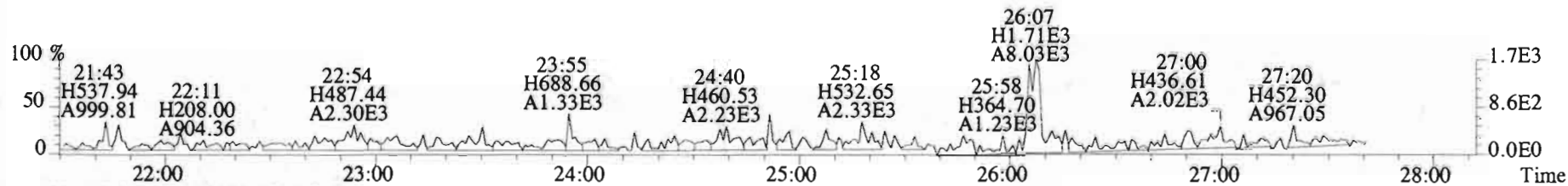
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Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	0.91	NotF η	*		143	2.5	0.646	Total Tetra-Dioxins	*	*		143	0.646
1,2,3,7,8-PeCDD	*	* n	0.90	NotF η	*		203	2.5	0.767	Total Penta-Dioxins	*	*		203	0.767
1,2,3,4,7,8-HxCDD	*	* n	1.10	NotF η	*		114	2.5	0.876	Total Hexa-Dioxins	*	*		114	0.929
1,2,3,6,7,8-HxCDD	*	* n	0.94	NotF η	*		114	2.5	0.931	Total Hepta-Dioxins	*	*		100	1.14
1,2,3,7,8,9-HxCDD	*	* n	0.96	NotF η	*		114	2.5	0.968	Total Tetra-Furans	*	*		165	0.575
1,2,3,4,6,7,8-HpCDD	*	* n	0.98	NotF η	*		100	2.5	1.14	Total Penta-Furans	0.0000	0.0000		181	0.634
OCDD	*	* n	0.96	NotF η	*		150	2.5	2.20	Total Hexa-Furans	*	*		125	0.466
										Total Hepta-Furans	*	*		137	0.988
2,3,7,8-TCDF	*	* n	0.95	NotF η	*		165	2.5	0.575						
1,2,3,7,8-PeCDF	*	* n	0.96	NotF η	*		181	2.5	0.662						
2,3,4,7,8-PeCDF	*	* n	1.01	NotF η	*		181	2.5	0.608						
1,2,3,4,7,8-HxCDF	*	* n	1.18	NotF η	*		125	2.5	0.362						
1,2,3,6,7,8-HxCDF	*	* n	1.07	NotF η	*		125	2.5	0.441						
2,3,4,6,7,8-HxCDF	*	* n	1.11	NotF η	*		125	2.5	0.472						
1,2,3,7,8,9-HxCDF	*	* n	1.06	NotF η	*		125	2.5	0.628						
1,2,3,4,6,7,8-HpCDF	*	* n	1.13	NotF η	*		137	2.5	1.09						
1,2,3,4,7,8,9-HpCDF	*	* n	1.28	NotF η	*		137	2.5	0.876						
OCDF	*	* n	0.95	NotF η	*		140	2.5	1.64						
										Rec	Qual				
IS	13C-2,3,7,8-TCDD	7.45e+06	0.80	y	1.10	26:06	2000.2			103					
IS	13C-1,2,3,7,8-PeCDD	6.94e+06	0.63	y	0.88	30:37	2317.5			119					
IS	13C-1,2,3,4,7,8-HxCDD	4.58e+06	1.27	y	0.64	33:54	1834.0			94.1					
IS	13C-1,2,3,6,7,8-HxCDD	5.10e+06	1.26	y	0.86	34:01	1532.9			78.6					
IS	13C-1,2,3,7,8,9-HxCDD	4.94e+06	1.22	y	0.81	34:19	1574.8			80.8					
IS	13C-1,2,3,4,6,7,8-HpCDD	3.29e+06	1.10	y	0.65	37:46	1291.5			66.2					
IS	13C-OCDD	5.59e+06	0.89	y	0.58	41:02	2478.4			63.6					
IS	13C-2,3,7,8-TCDF	1.03e+07	0.79	y	1.03	25:19	1722.5			88.3					
IS	13C-1,2,3,7,8-PeCDF	1.10e+07	1.57	y	0.85	29:26	2225.1			114					
IS	13C-2,3,4,7,8-PeCDF	1.10e+07	1.64	y	0.85	30:20	2240.8			115					
IS	13C-1,2,3,4,7,8-HxCDF	7.04e+06	0.52	y	0.83	33:02	2173.2			111					
IS	13C-1,2,3,6,7,8-HxCDF	6.83e+06	0.52	y	1.03	33:09	1696.1			87.0					
IS	13C-2,3,4,6,7,8-HxCDF	6.25e+06	0.52	y	0.95	33:45	1683.6			86.3					
IS	13C-1,2,3,7,8,9-HxCDF	5.53e+06	0.52	y	0.83	34:41	1715.3			88.0					
IS	13C-1,2,3,4,6,7,8-HpCDF	3.63e+06	0.44	y	0.76	36:31	1230.5			63.1					
IS	13C-1,2,3,4,7,8,9-HpCDF	3.30e+06	0.43	y	0.58	38:19	1459.1			74.8					
IS	13C-OCDF	7.27e+06	0.89	y	0.69	41:15	2710.3			69.5					
C/Up	37Cl-2,3,7,8-TCDD	3.28e+06			1.20	26:07	804.50			103					
RS/RT	13C-1,2,3,4-TCDD	6.63e+06	0.81	y	1.00	25:32	1949.7				Integrations	Reviewed			
RS	13C-1,2,3,4-TCDF	1.13e+07	0.80	y	1.00	24:06	1949.7				by	by			
RS/RT	13C-1,2,3,4,6,9-HxCDF	7.59e+06	0.53	y	1.00	33:26	1949.7				Analyst: <u>DB</u>	Analyst: <u>CT</u>			
											Date: <u>12/5/19</u>	Date: <u>12/20/19</u>			

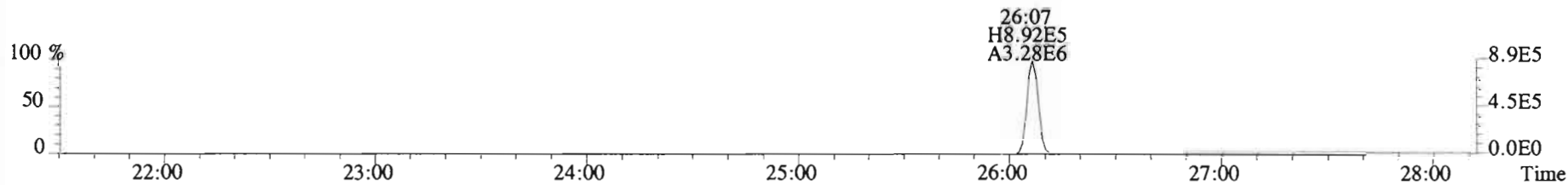
File:191204D1 #1-493 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-02 PDI-RB-1911120944 1.02579 Exp:OCDD_DB5
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



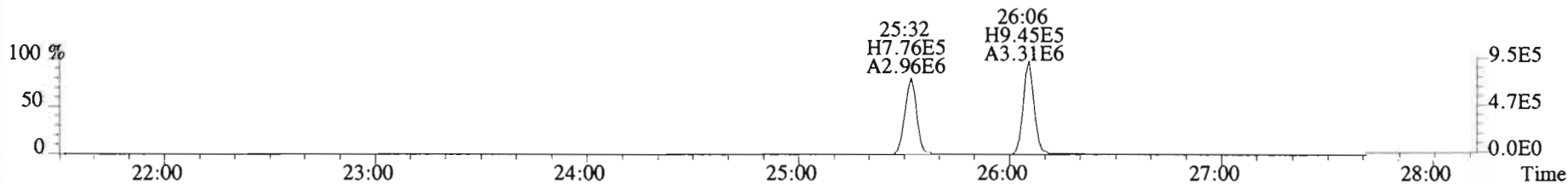
321.8936 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



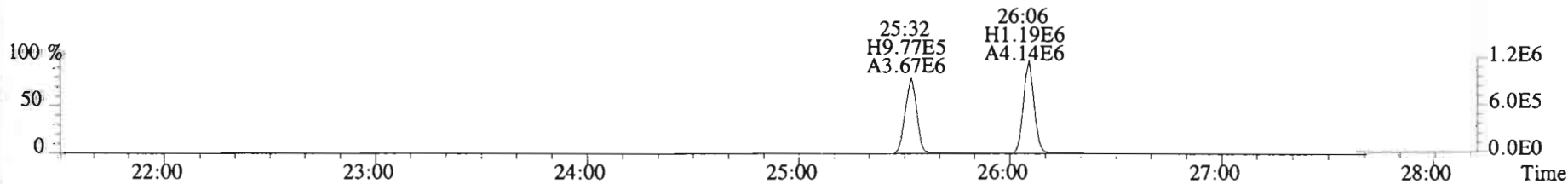
327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



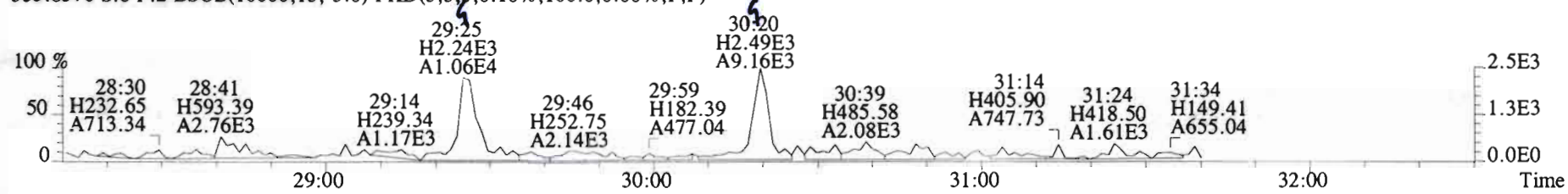
331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



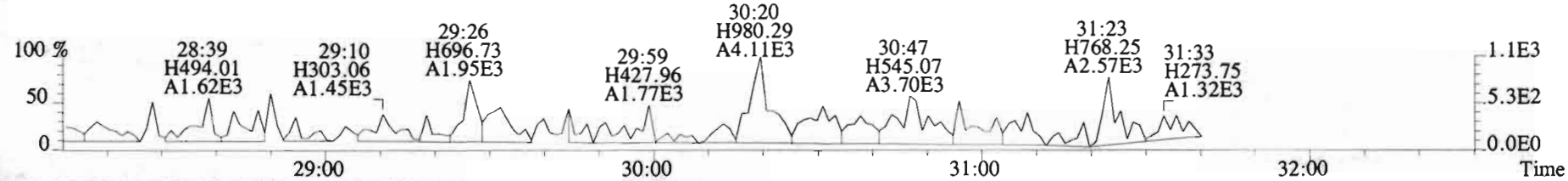
333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



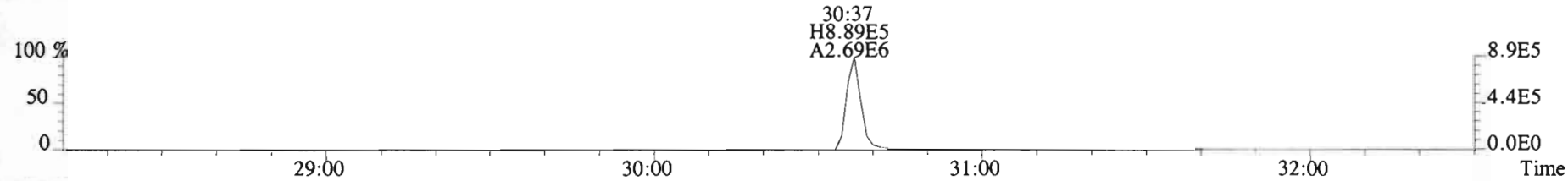
File:191204D1 #1-210 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-02 PDI-RB-1911120944 1.02579 Exp:OCDD_DB5
 353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



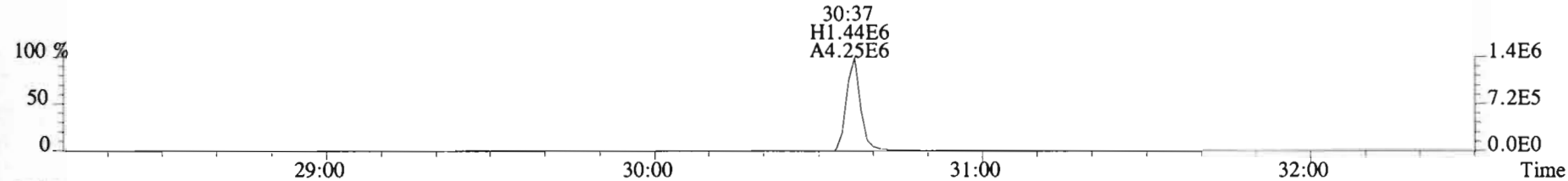
355.8546 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



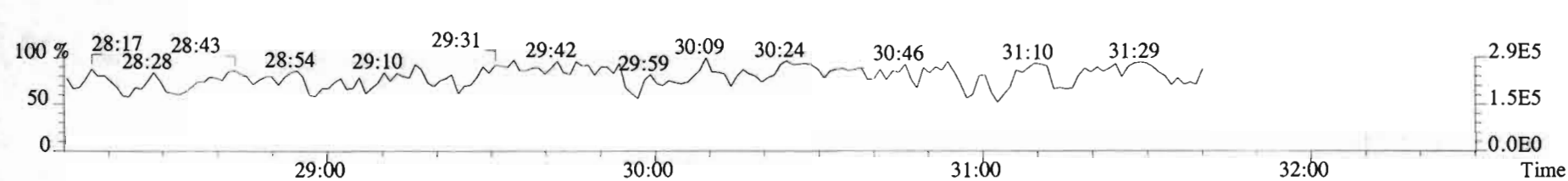
365.8978 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



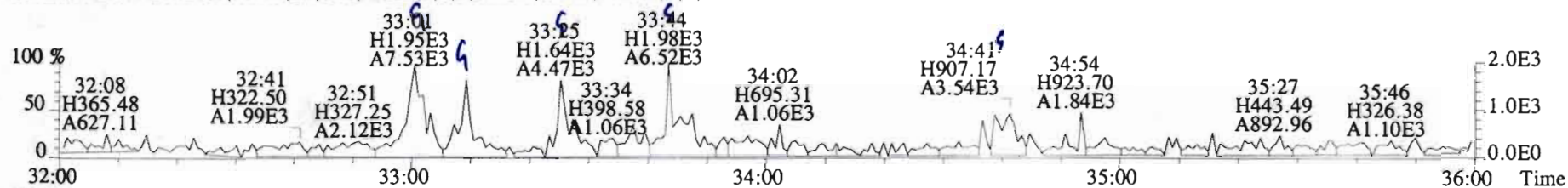
367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



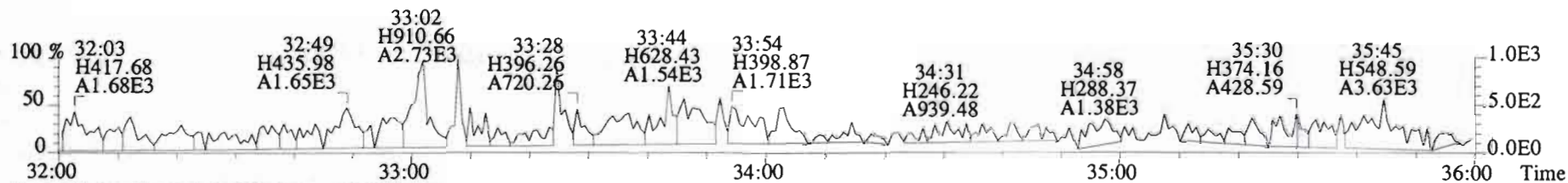
366.9792 S:8 F:2



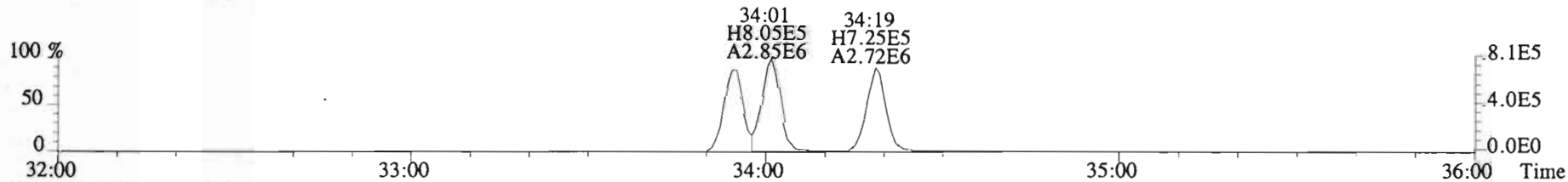
File:191204D1 #1-385 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-02 PDI-RB-1911120944 1.02579 Exp:OCDD_DB5
 389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



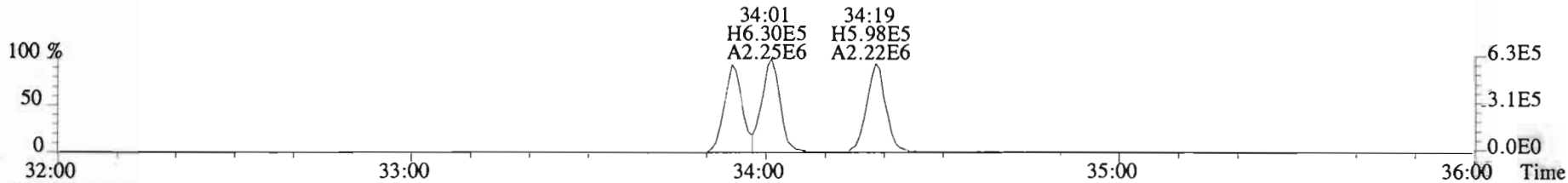
391.8127 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



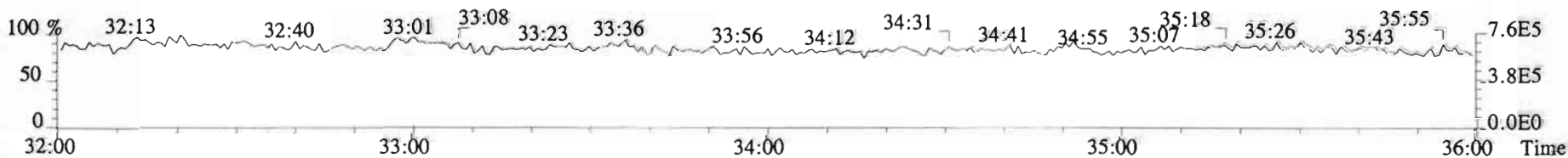
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



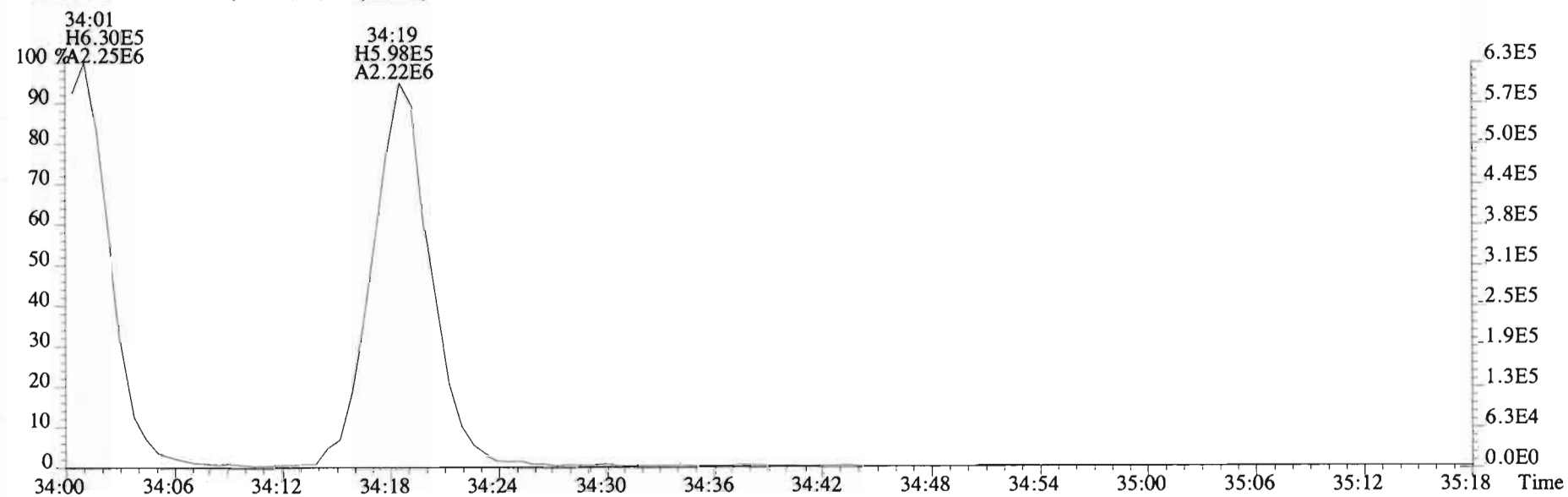
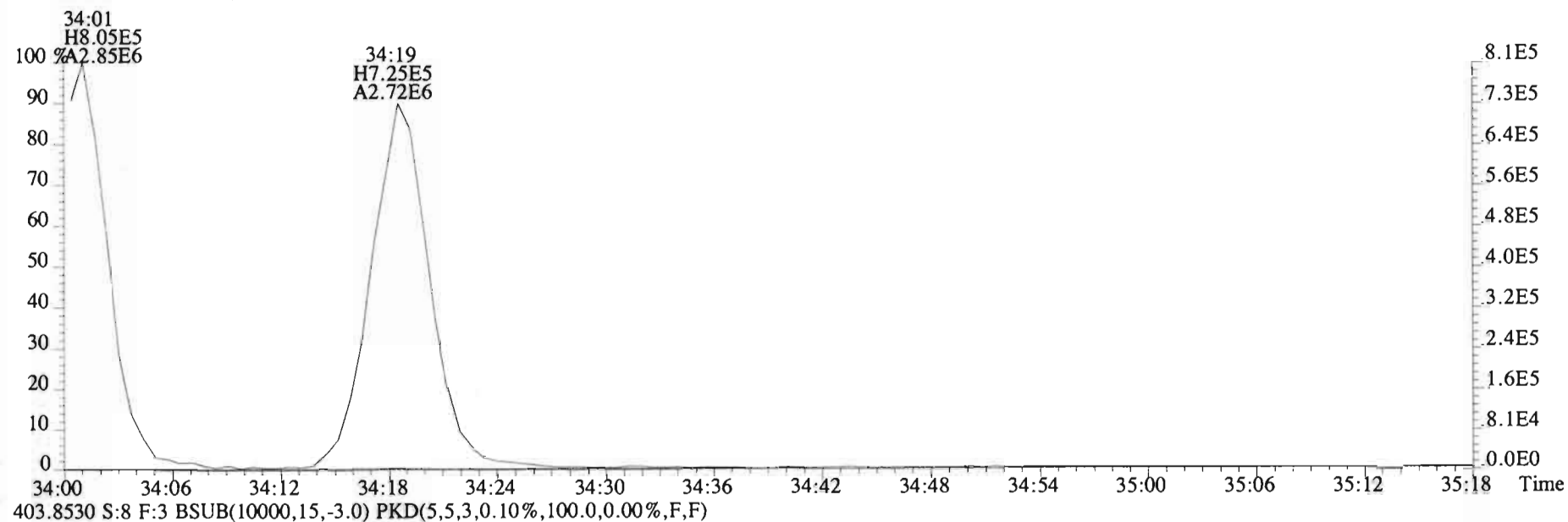
403.8530 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



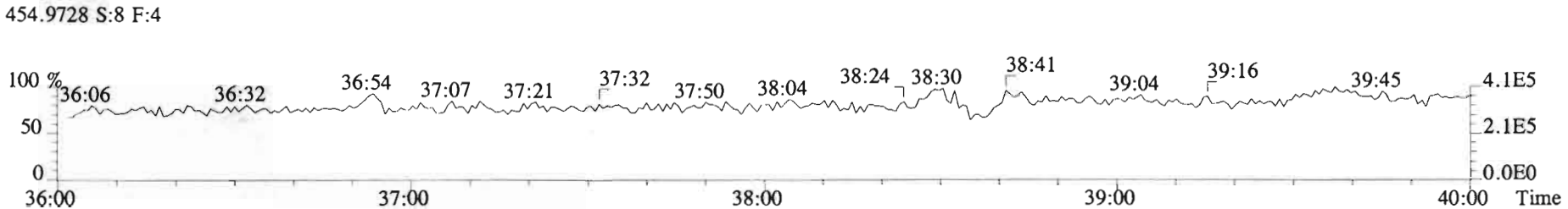
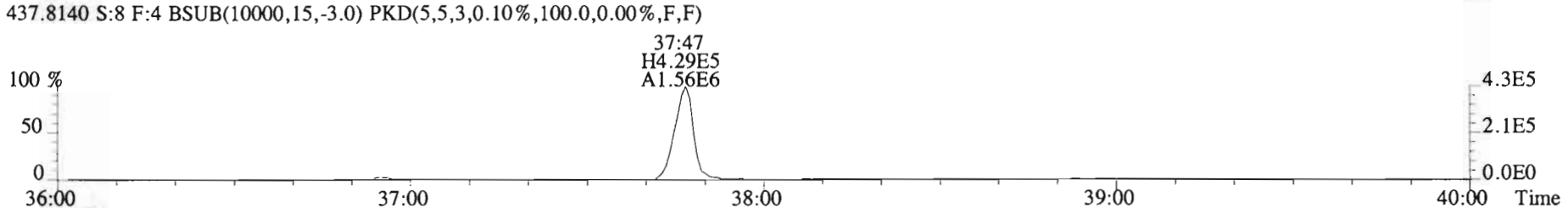
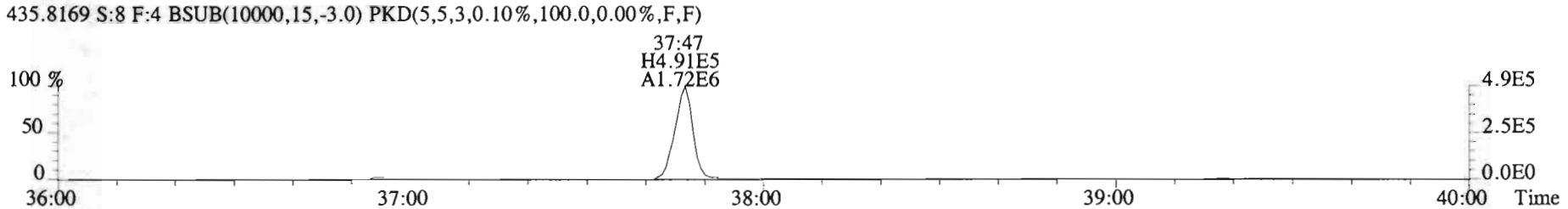
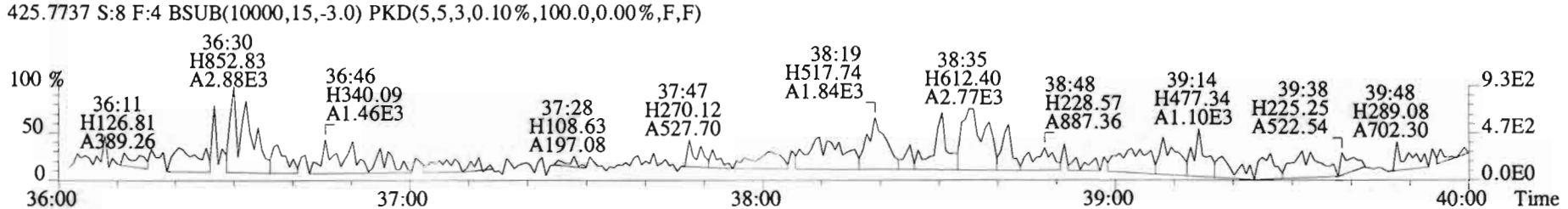
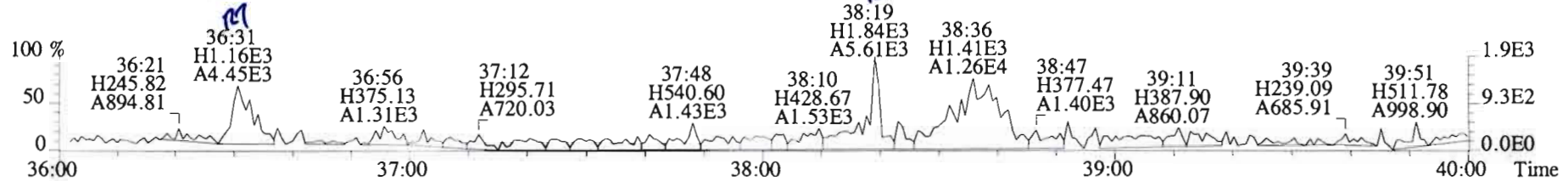
392.9760 S:8 F:3



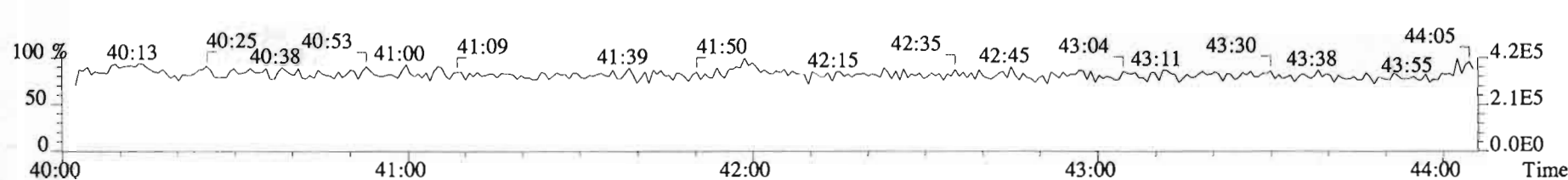
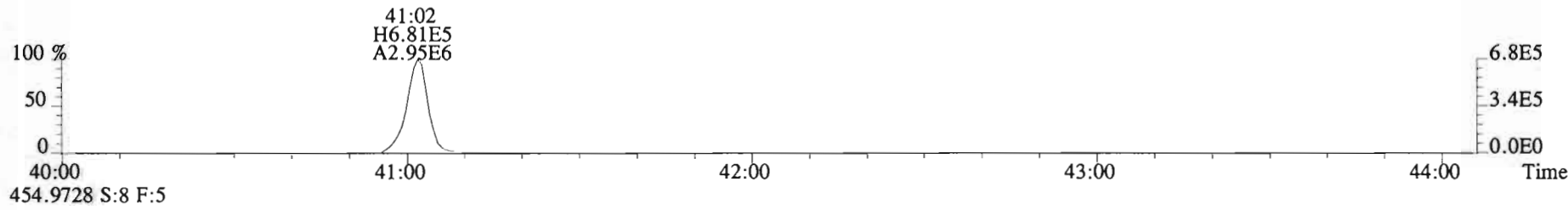
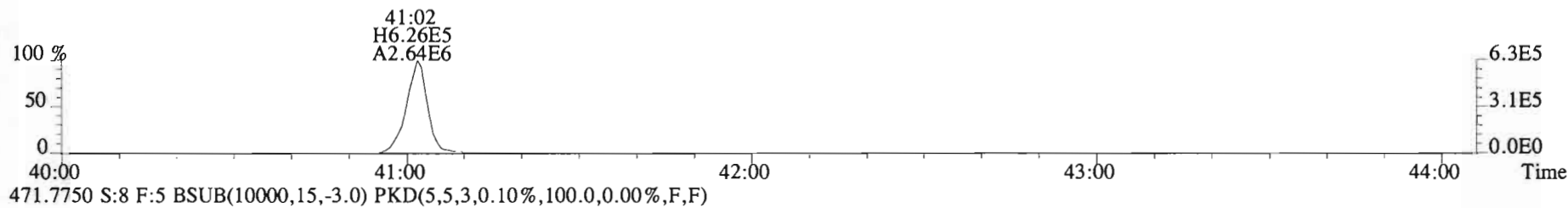
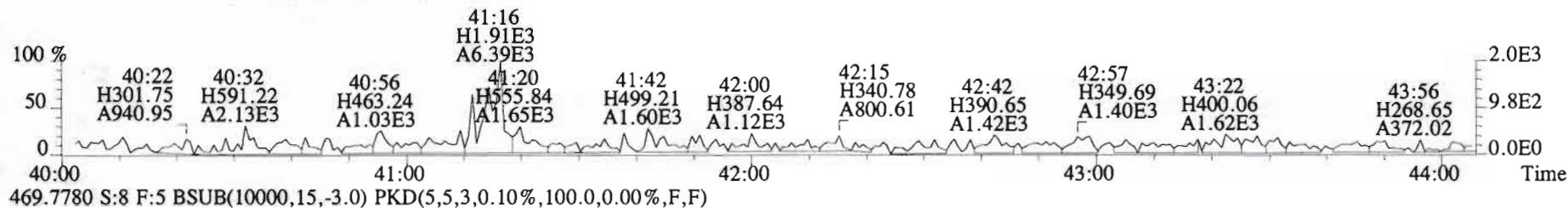
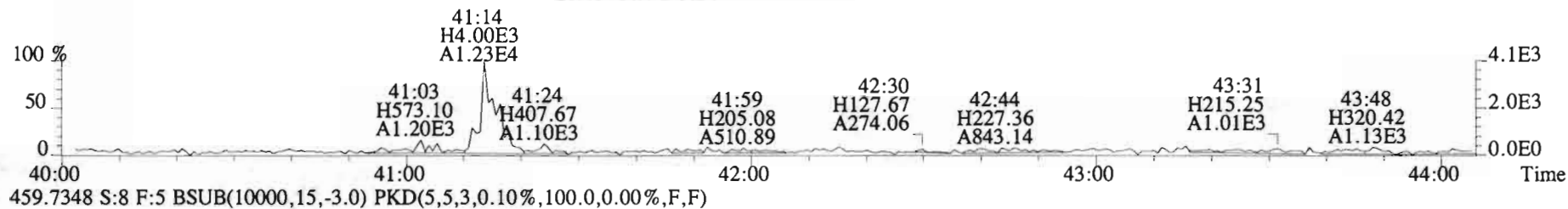
File:191204D1 #1-385 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-02 PDI-RB-1911120944 1.02579 Exp:OCDD_DB5
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



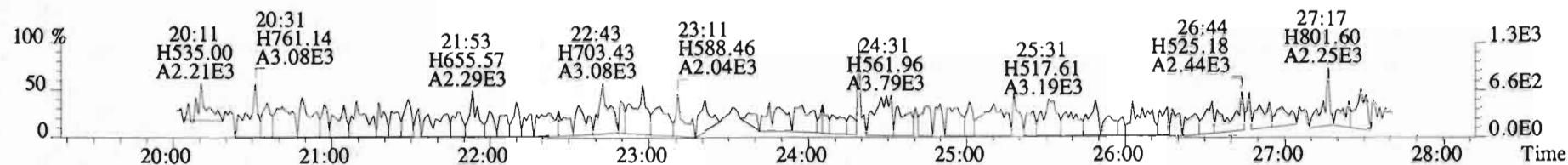
File:191204D1 #1-356 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-02 PDI-RB-1911120944 1.02579 Exp:OCDD_DB5
 423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



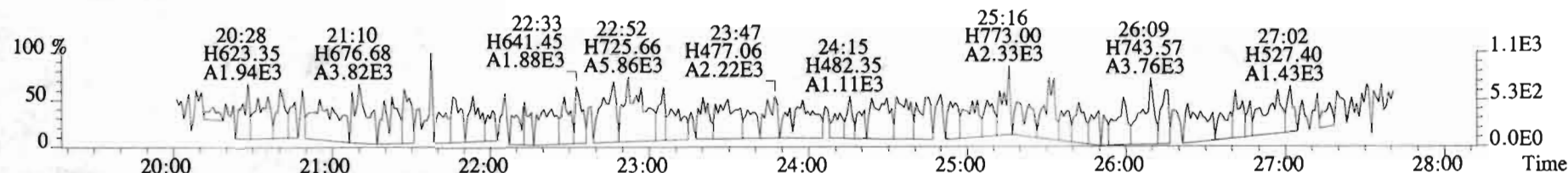
File: 191204D1 #1-431 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista_Analytical_Laboratory_VG7 Text: 1904016-02 PDI-RB-1911120944 1.02579 Exp: OCDD_DB5
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



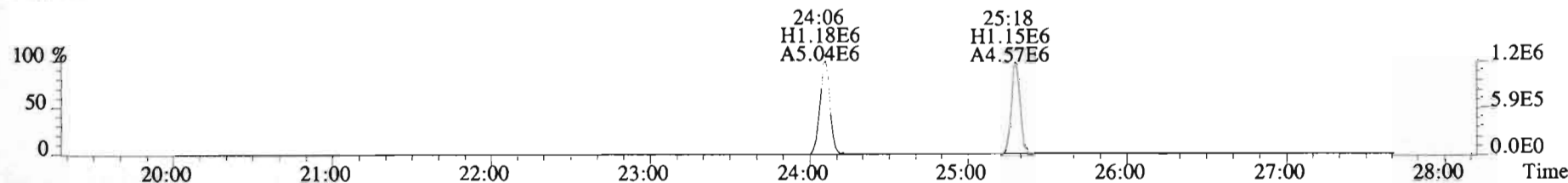
File:191204D1 #1-493 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-02 PDI-RB-1911120944 1.02579 Exp:OCDD_DB5
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



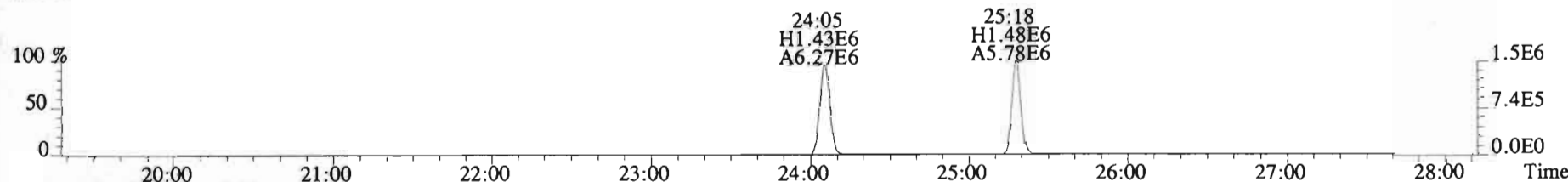
305.8987 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



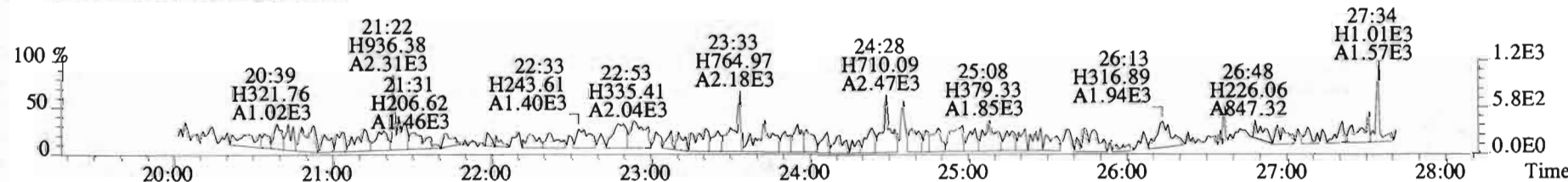
315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



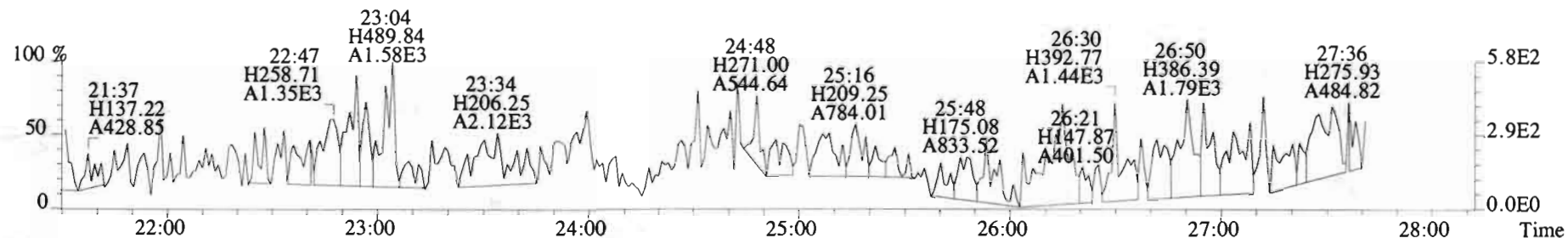
317.9389 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



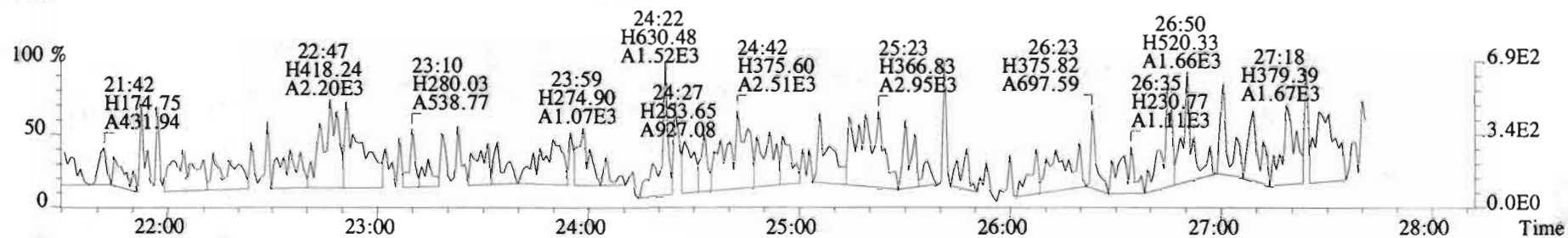
375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



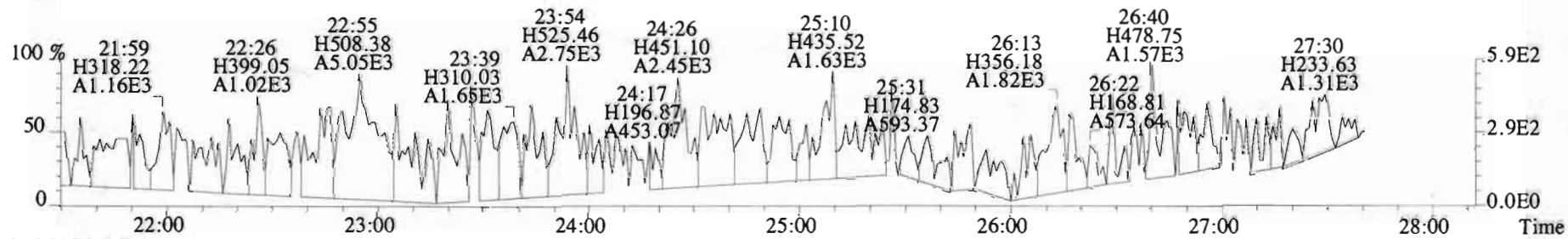
File:191204D1 #1-493 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-02 PDI-RB-1911120944 1.02579 Exp:OCDD_DB5
 339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



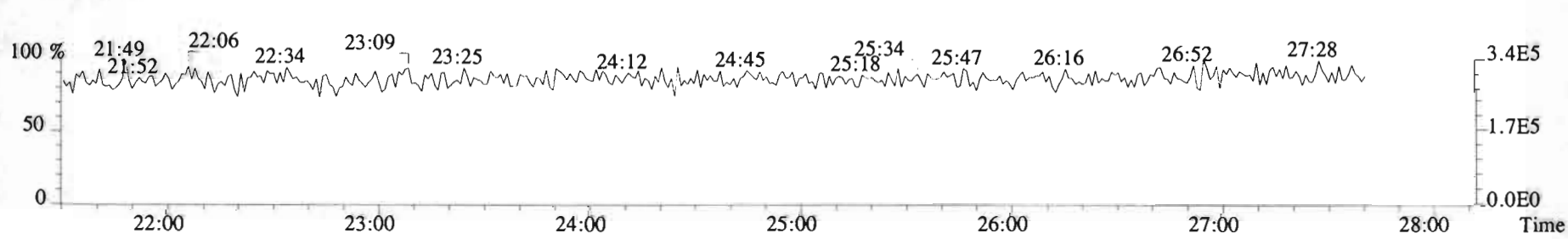
341.8568 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



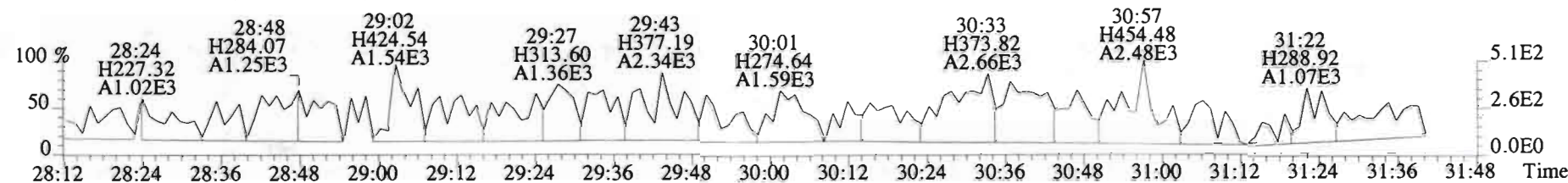
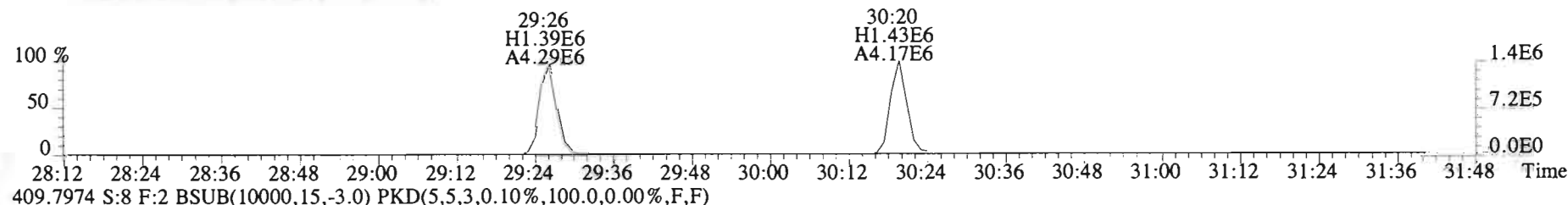
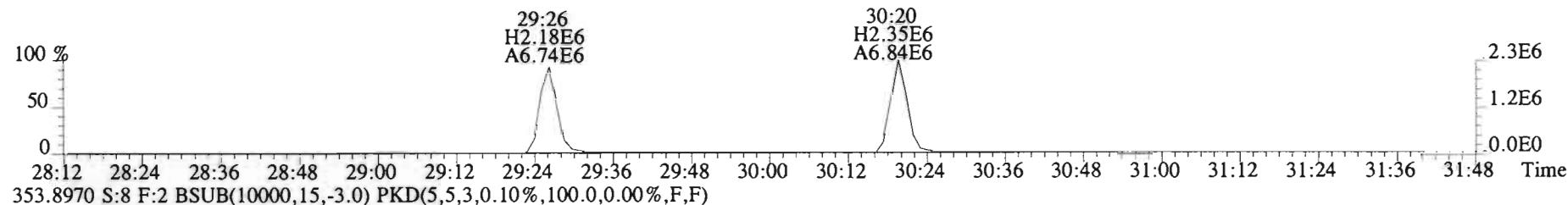
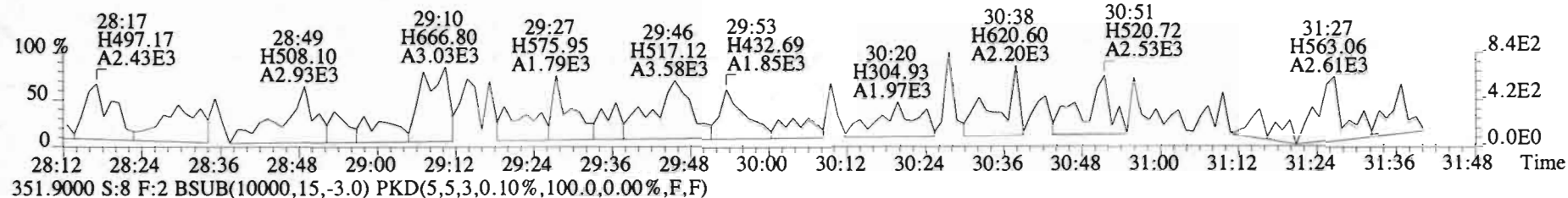
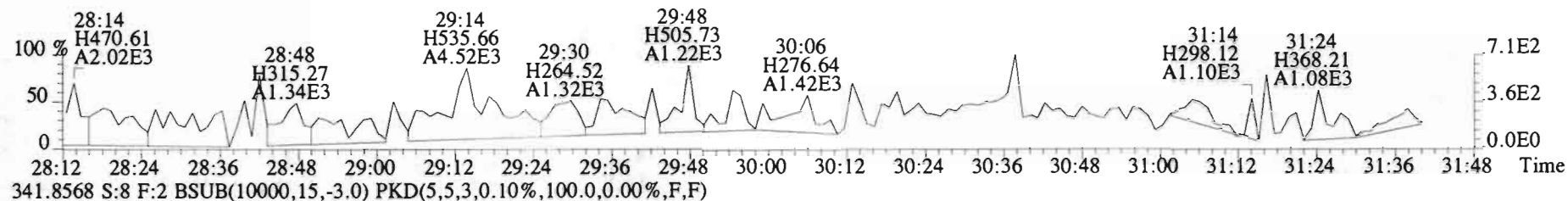
409.7974 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



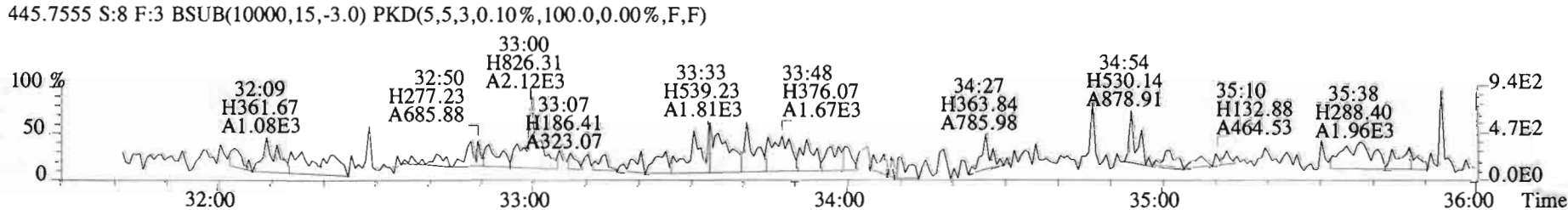
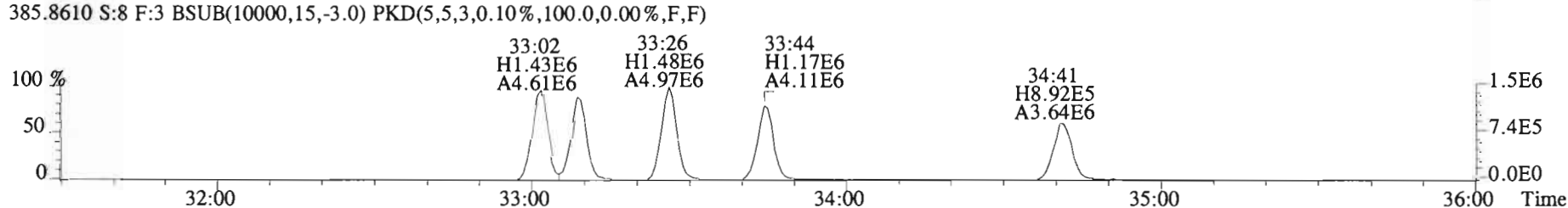
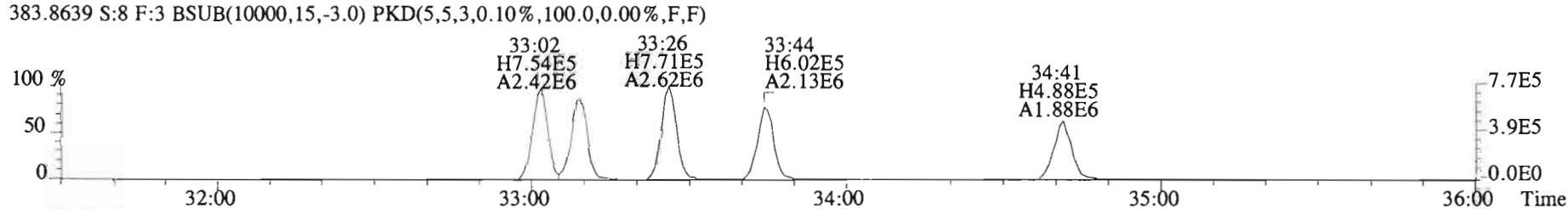
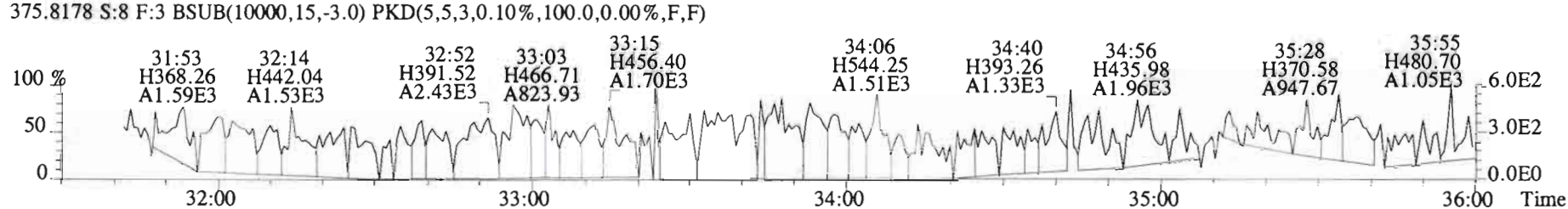
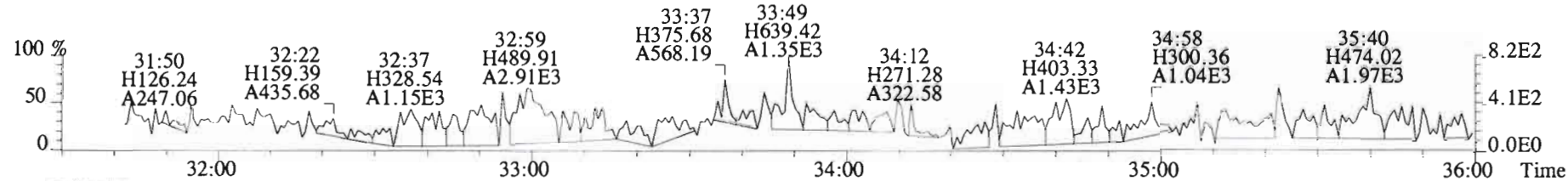
316.9824 S:8



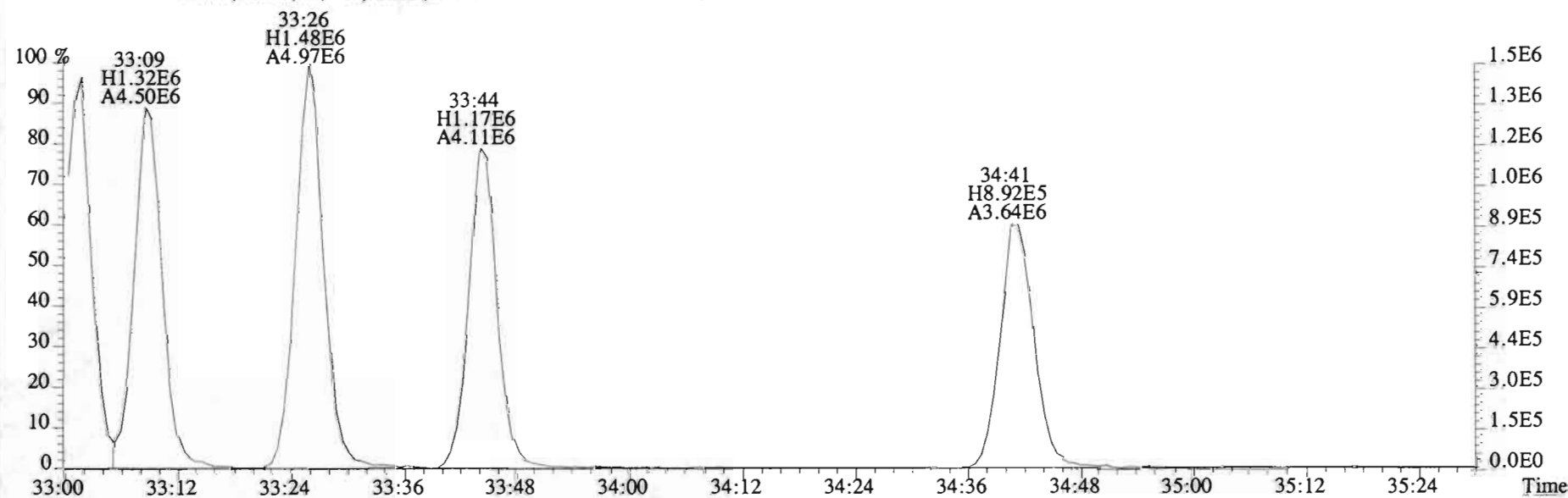
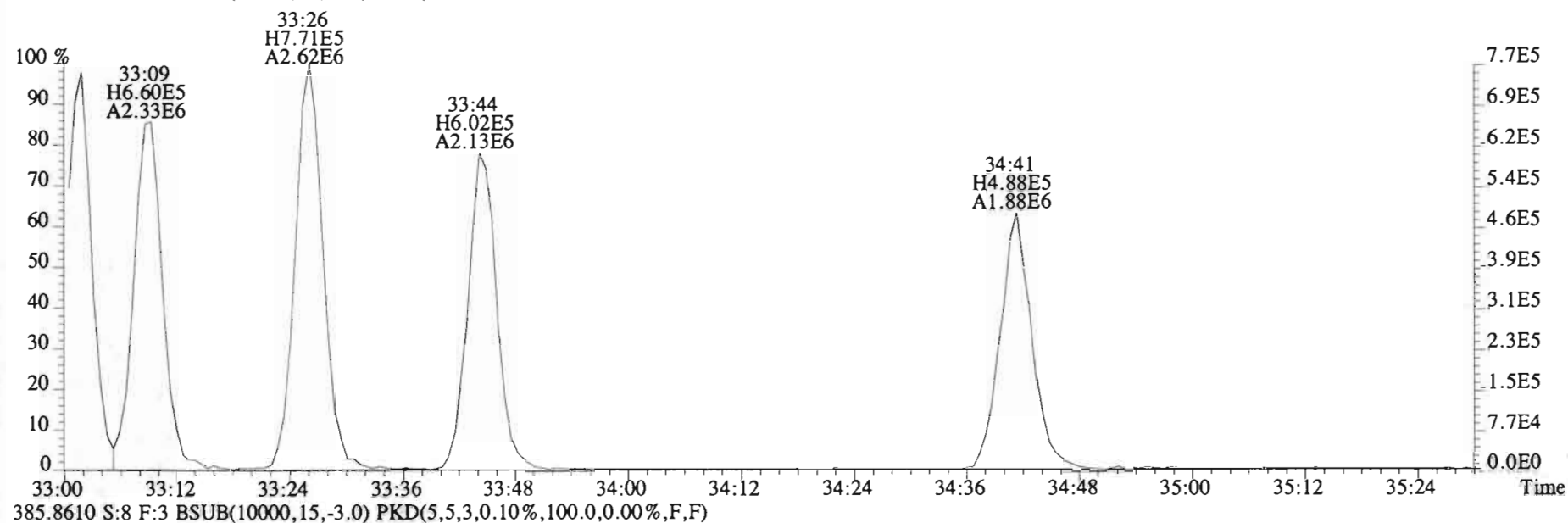
File:191204D1 #1-210 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-02 PDI-RB-1911120944 1.02579 Exp:OCDD_DB5
 339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



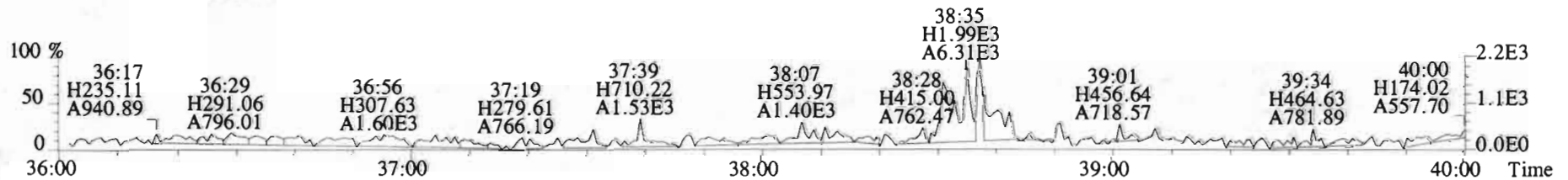
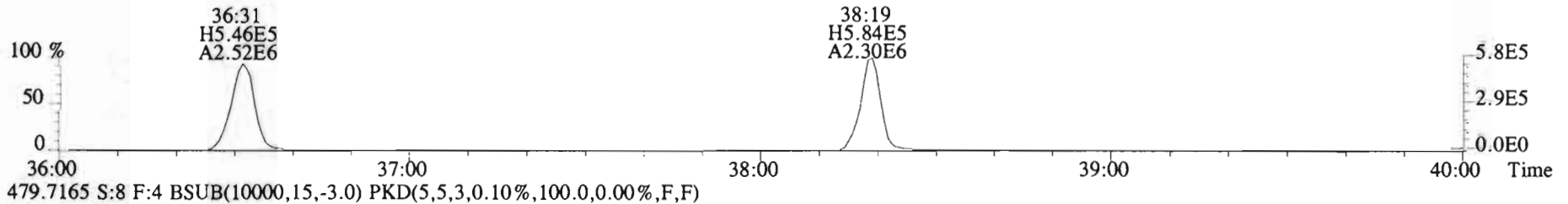
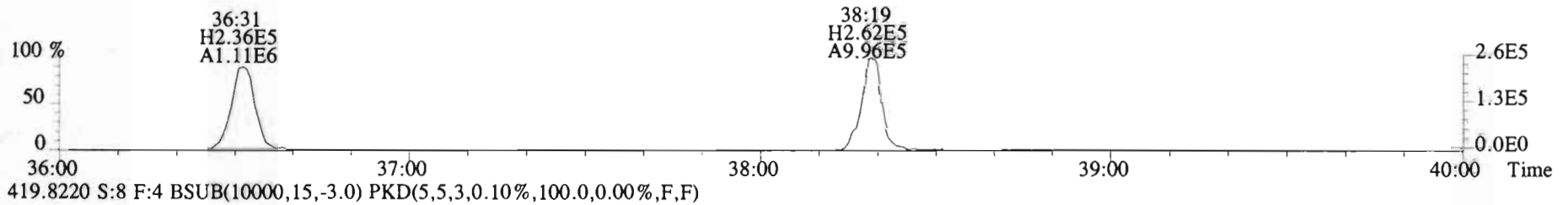
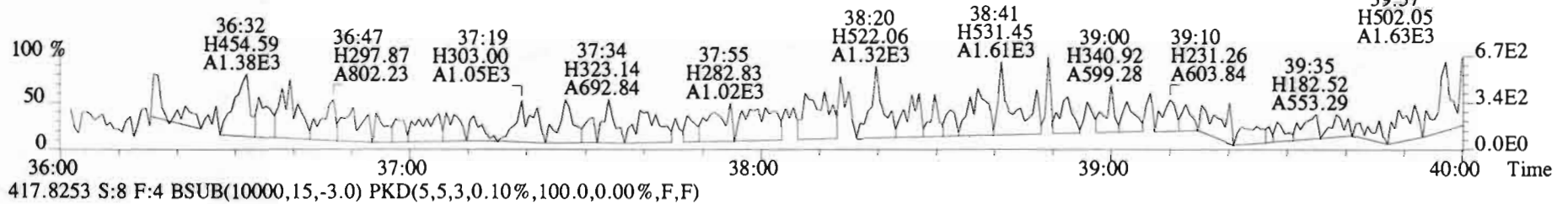
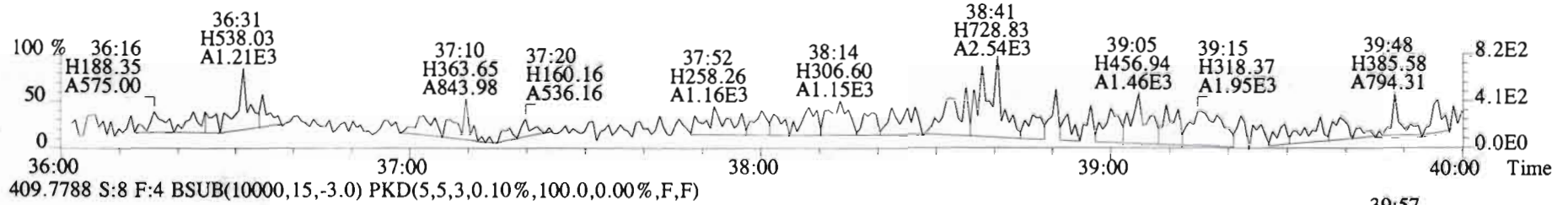
File:191204D1 #1-385 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-02 PDI-RB-1911120944 1.02579 Exp:OCDD_DB5
 373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



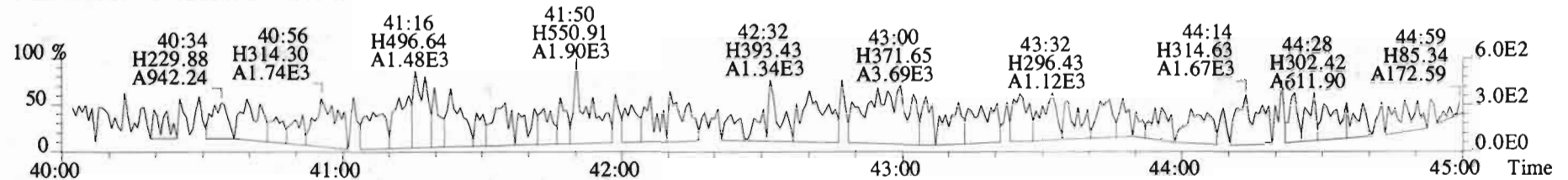
File:191204D1 #1-385 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-02 PDI-RB-1911120944 1.02579 Exp:OCDD_DB5
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



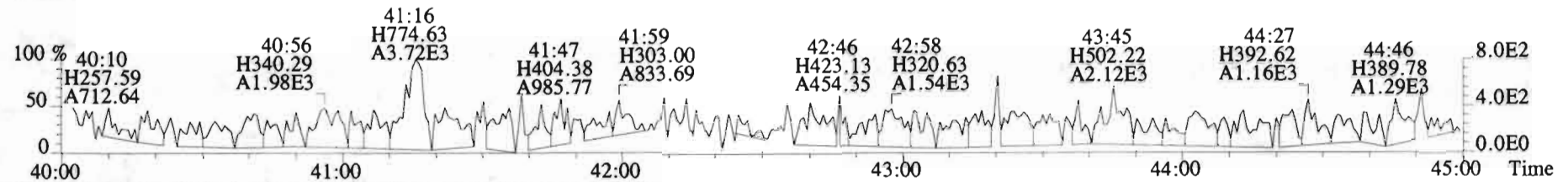
File:191204D1 #1-356 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-02 PDI-RB-1911120944 1.02579 Exp:OCDD_DB5
 407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



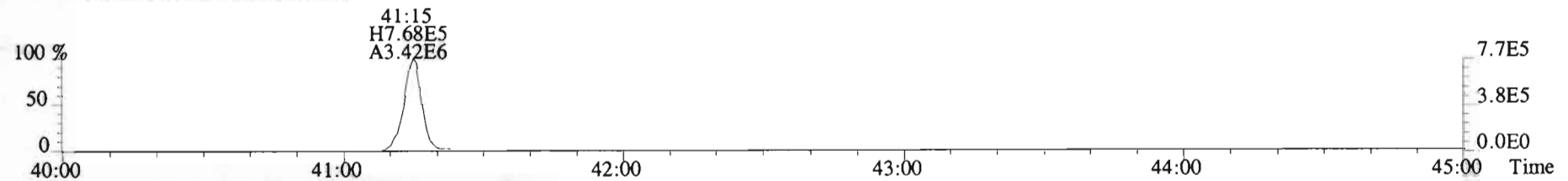
File:191204D1 #1-431 Acq: 4-DEC-2019 23:21:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-02 PDI-RB-1911120944 1.02579 Exp:OCDD_DB5
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



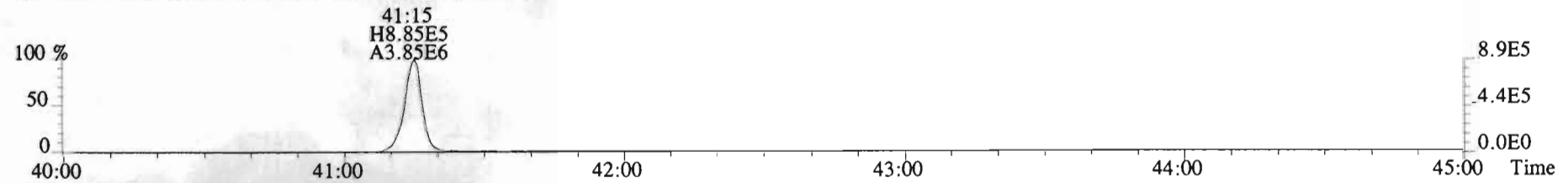
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



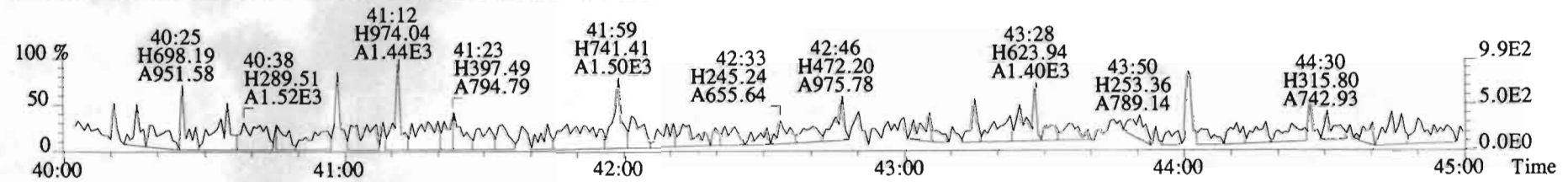
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:8 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\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

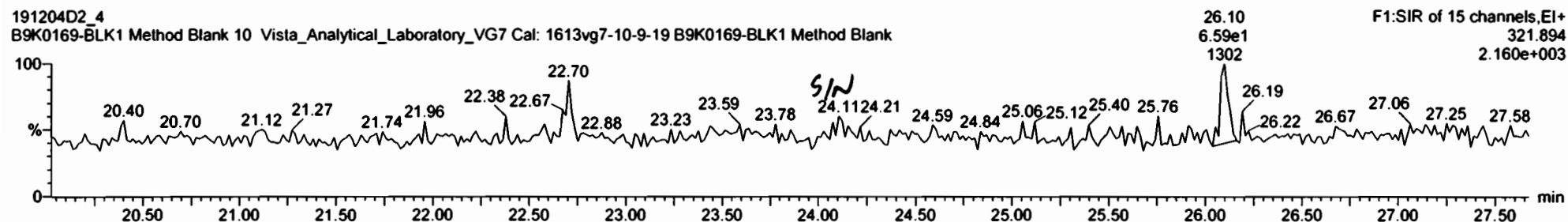
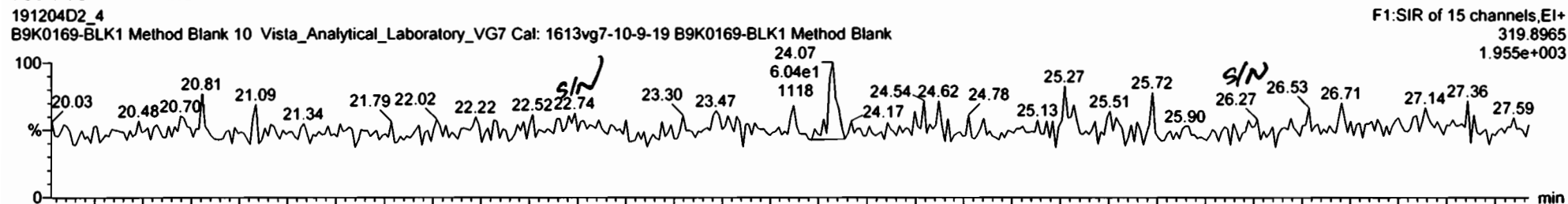
#	Name	N/Y	RT	Area	IS Area	Response Primary Flags	Conc.	EMPC
1								

Hepta-Furans

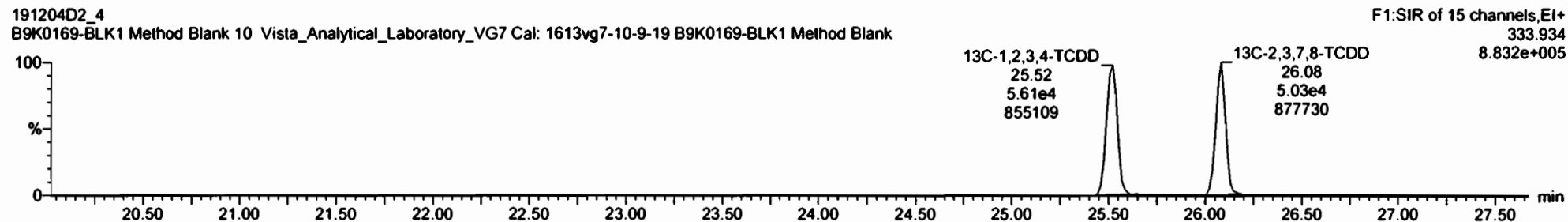
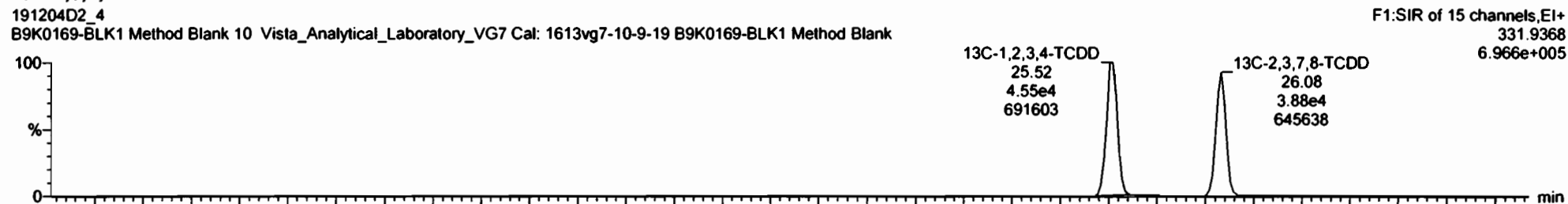
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1								

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

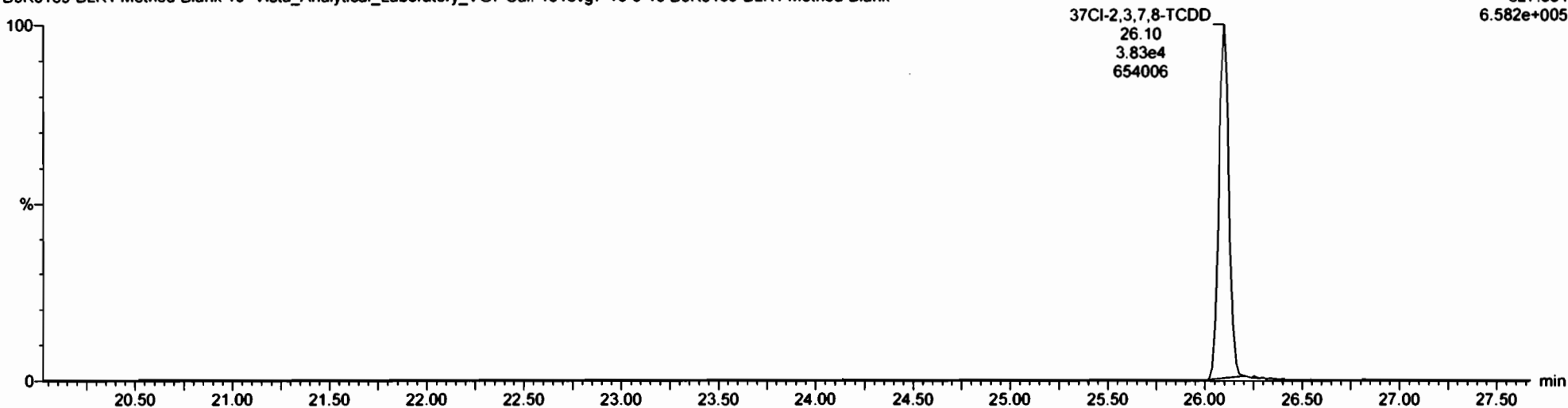


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Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

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

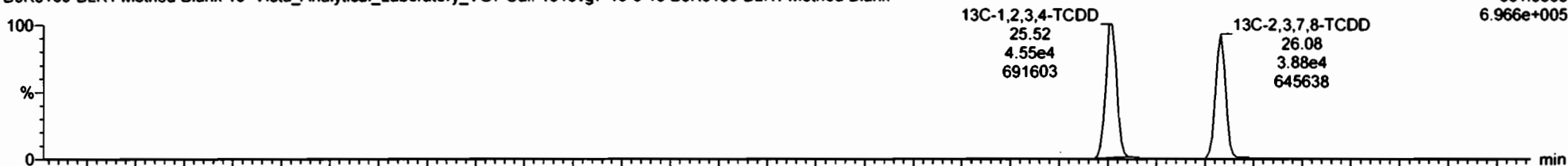
F1:SIR of 15 channels,EI+
327.884
6.582e+005



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

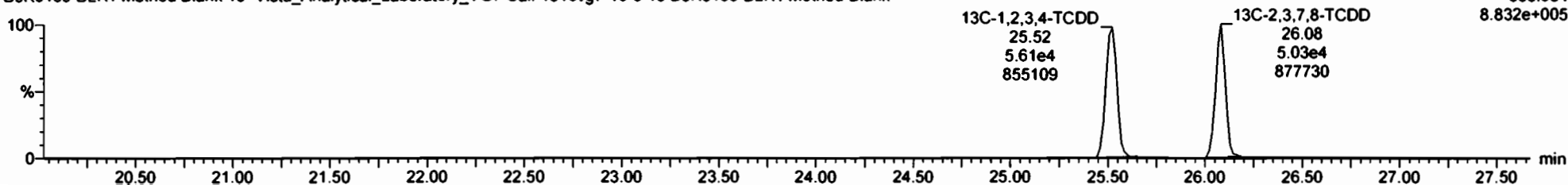
191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

F1:SIR of 15 channels,EI+
331.938
6.966e+005



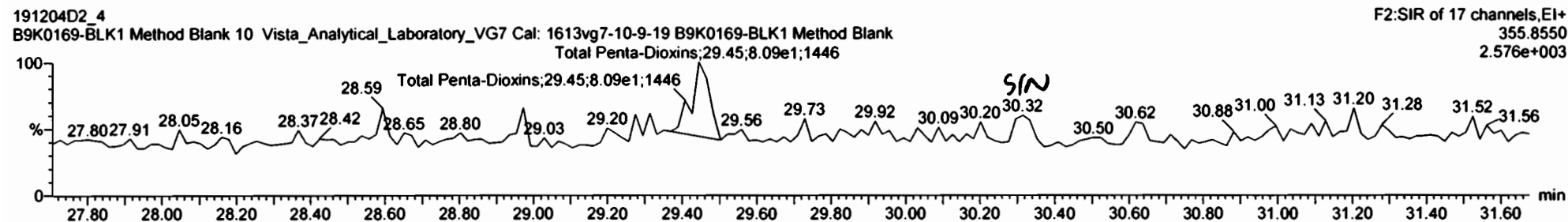
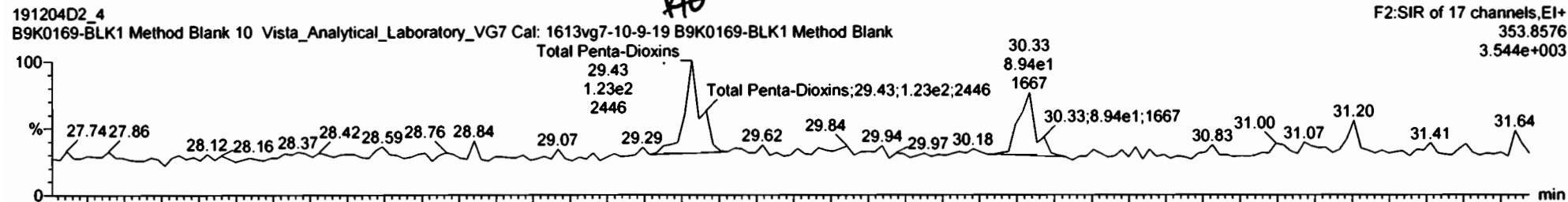
191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

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

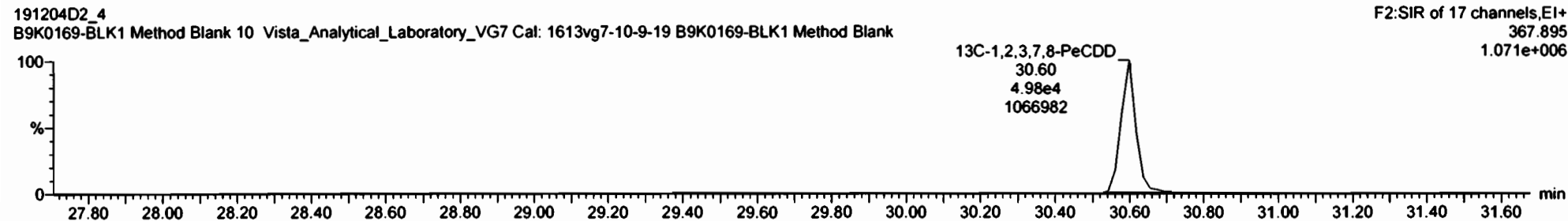
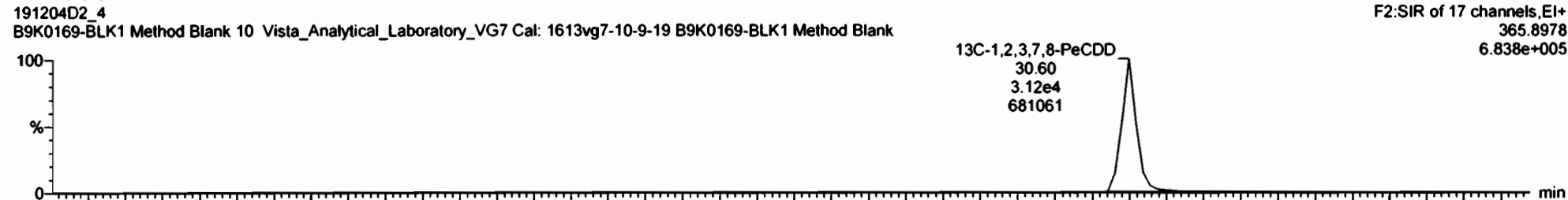


Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Penta-Dioxins

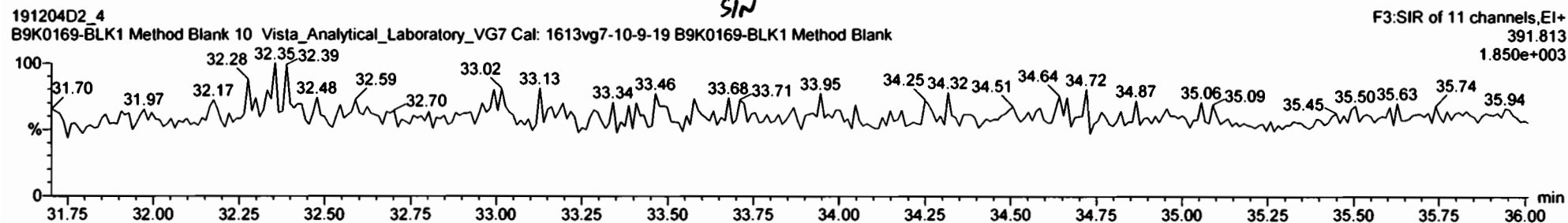
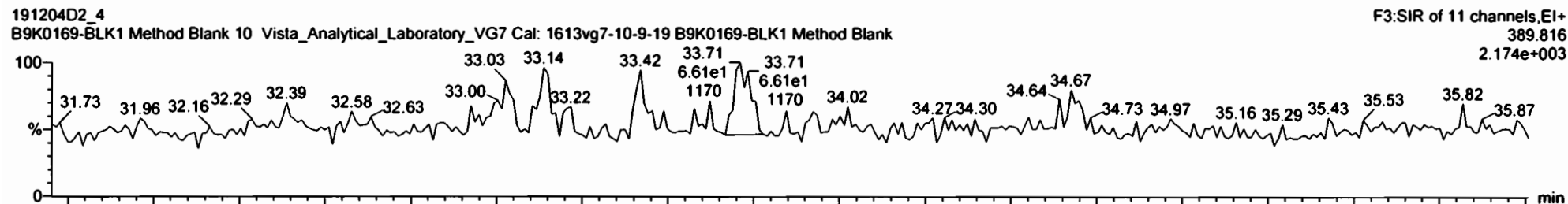


13C-1,2,3,7,8-PeCDD

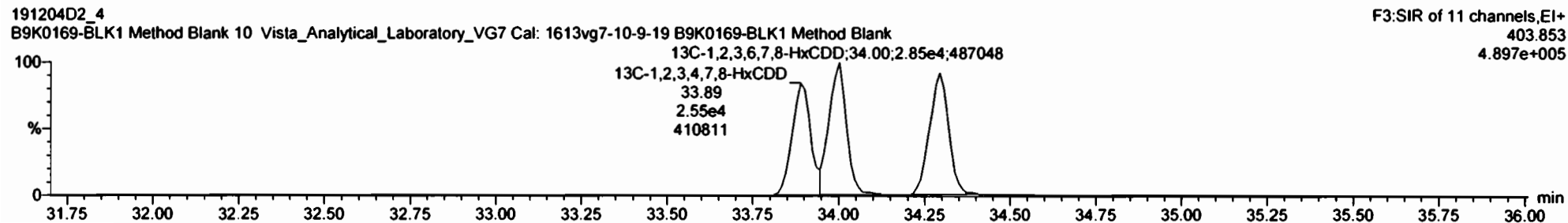
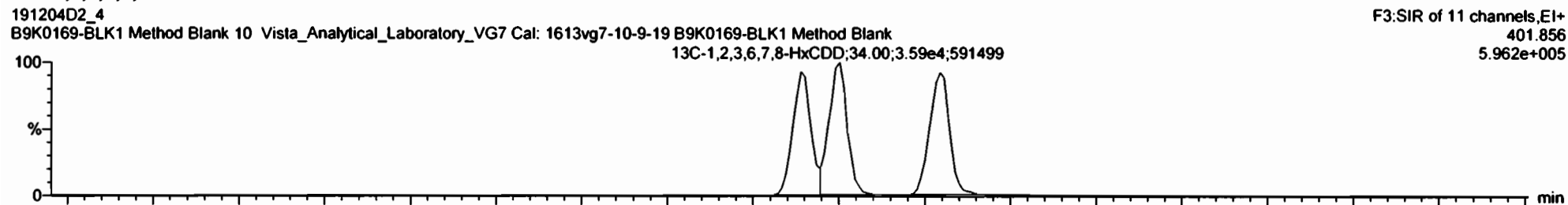


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 Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hexa-Dioxins

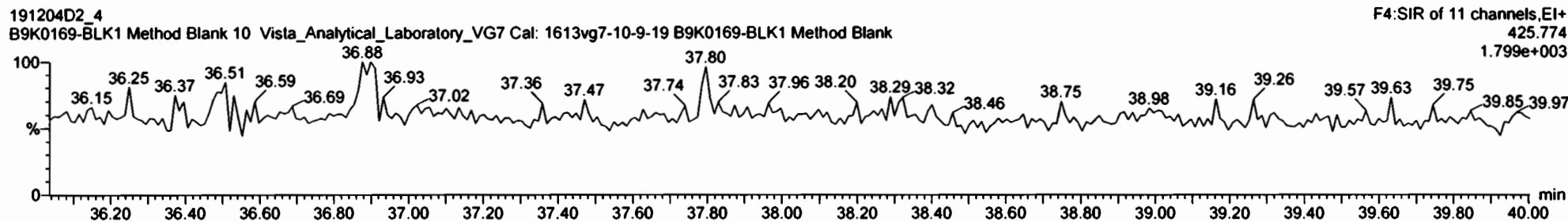
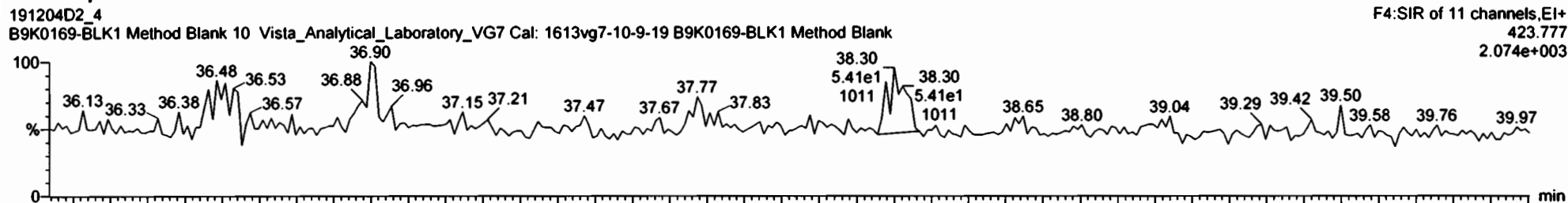


13C-1,2,3,4,7,8-HxCDD

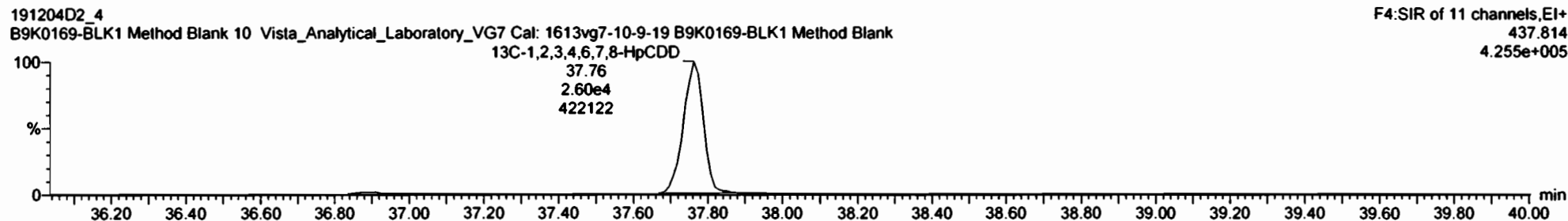
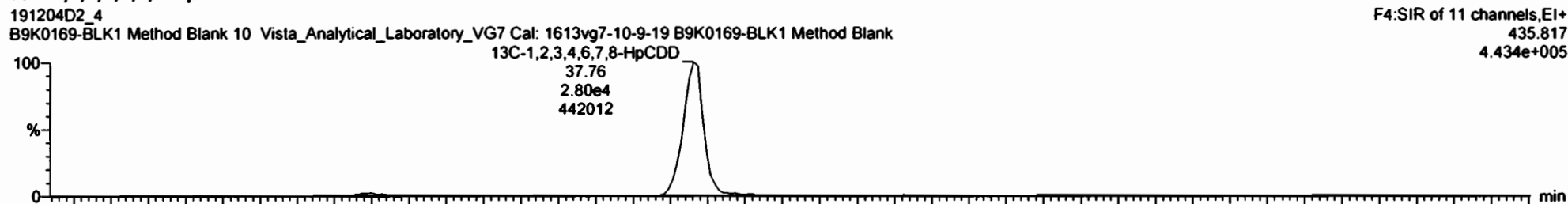


Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hepta-Dioxins



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

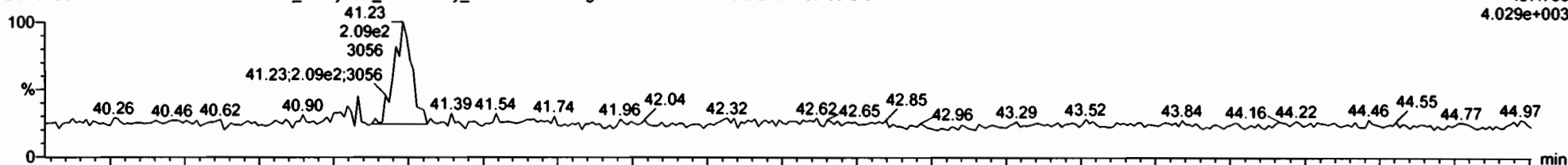


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Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

OCDD

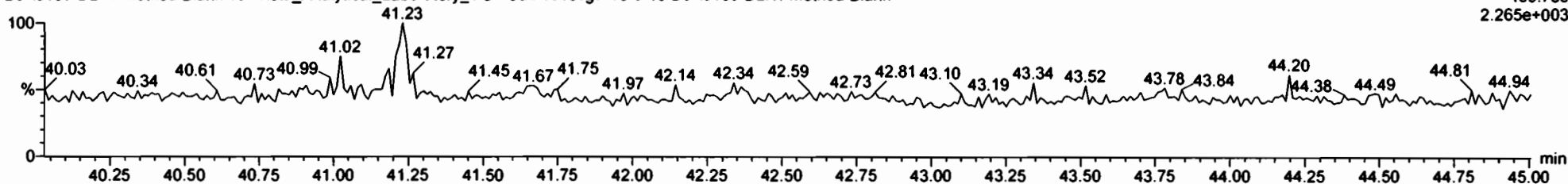
191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

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

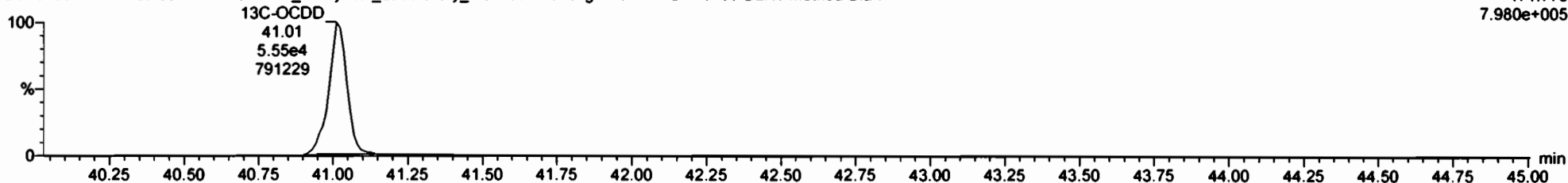
191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

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



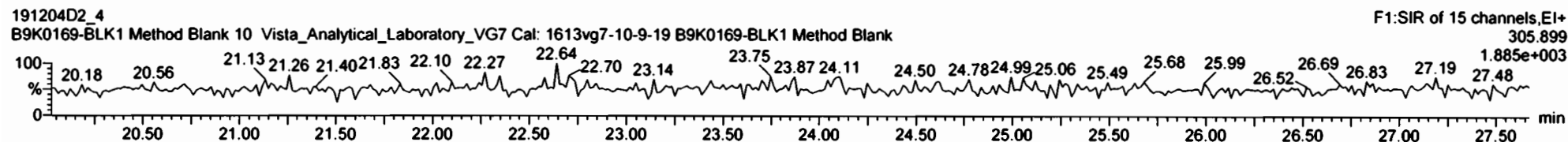
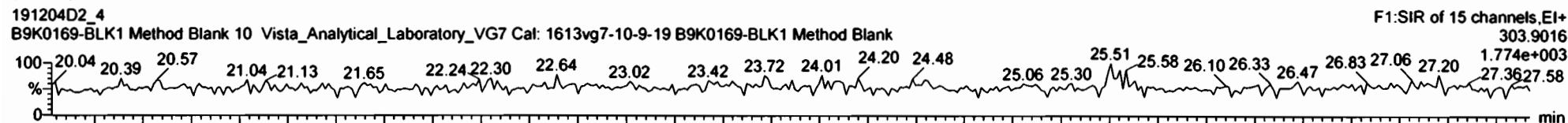
191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

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

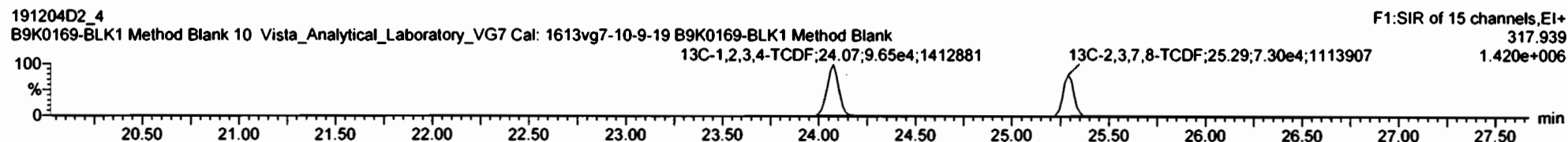
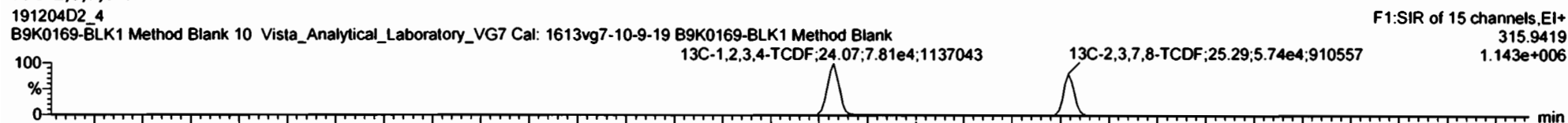


Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

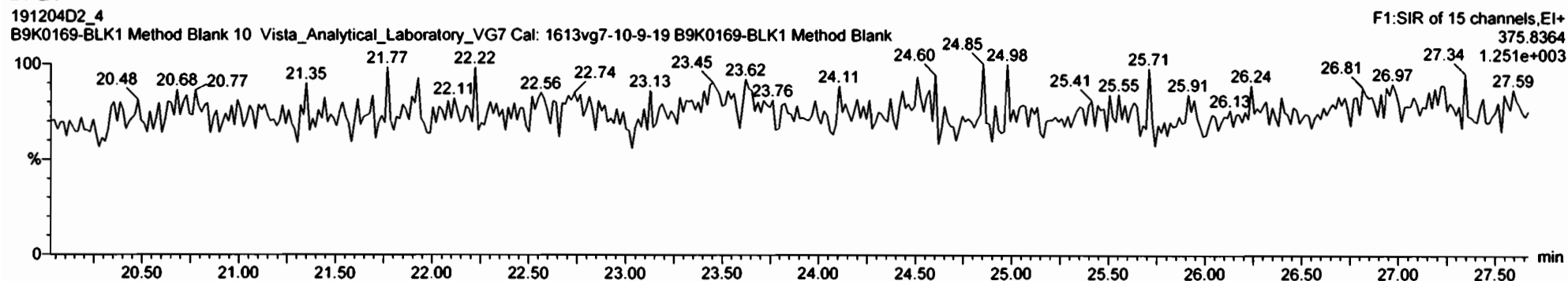
Total Tetra-Furans



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



DPE1



Vista Analytical Laboratory

Dataset: Untitled

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

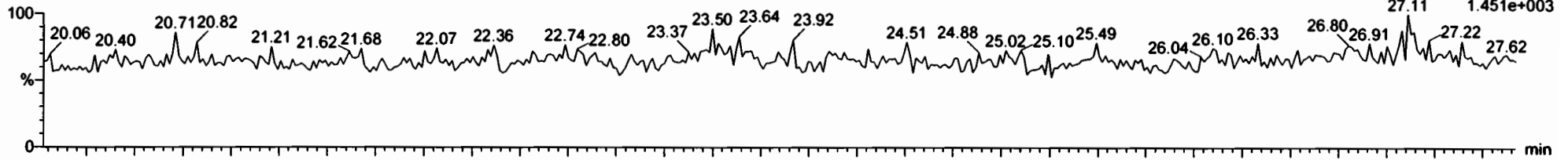
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

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

1st Func. Penta-Furans

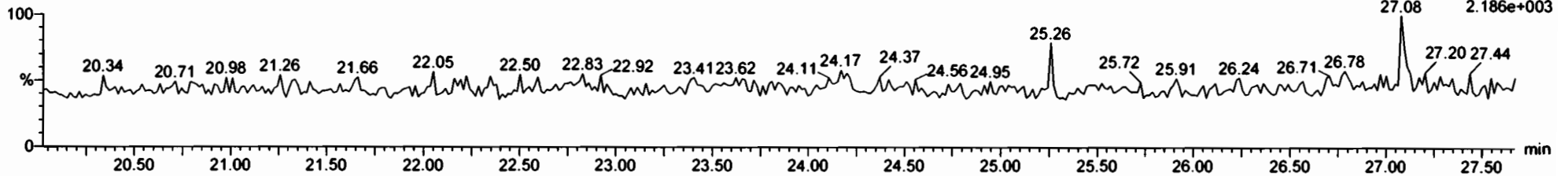
191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

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

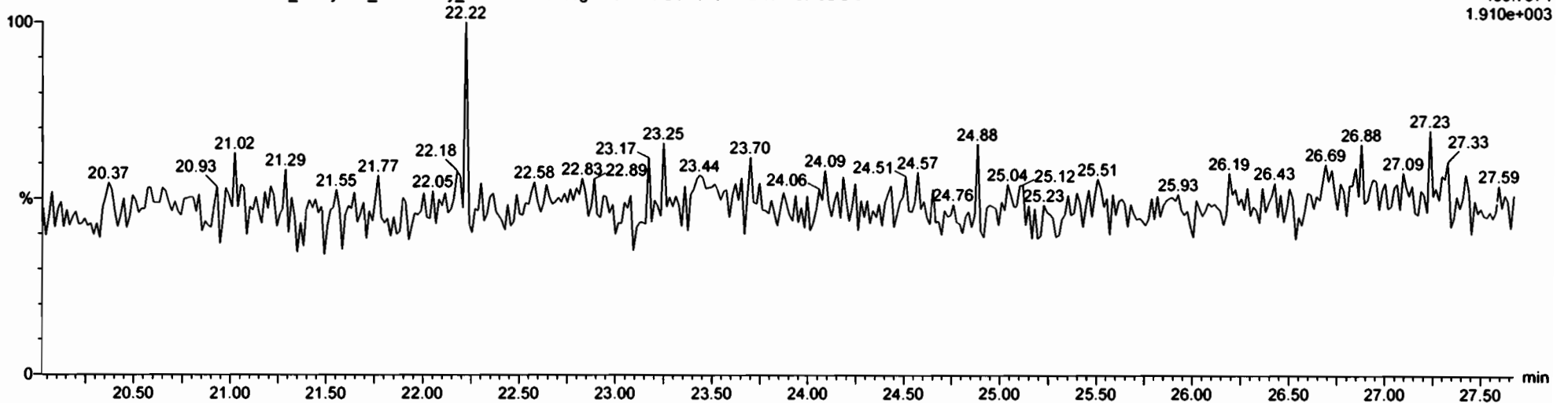
F1:SIR of 15 channels,EI+
341.857
2.186e+003



DPE6

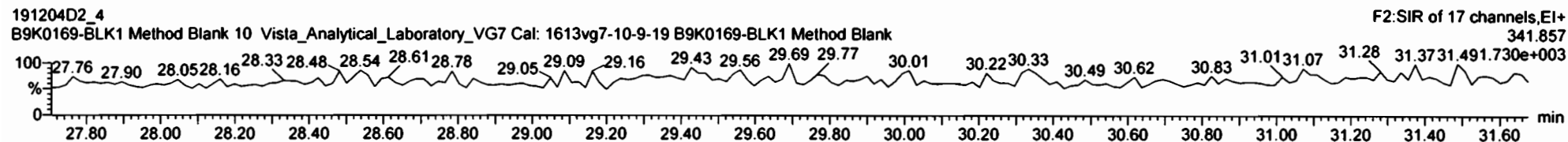
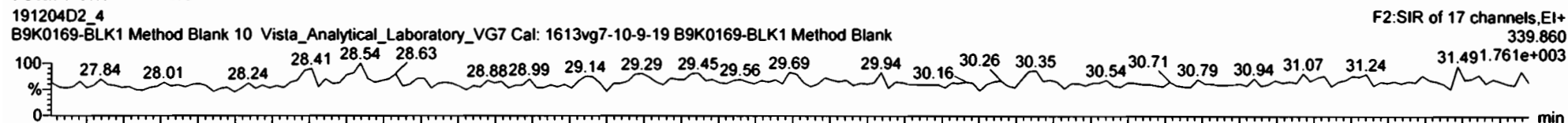
191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

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

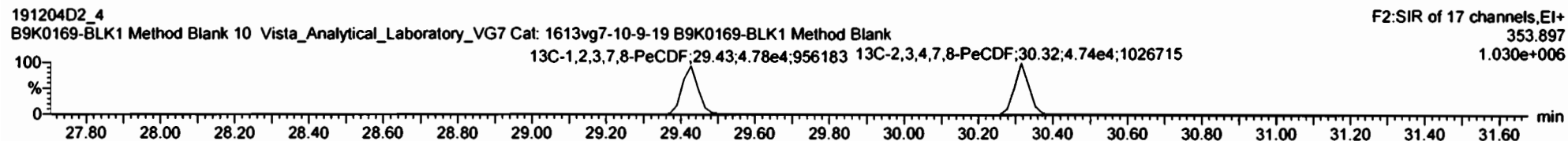
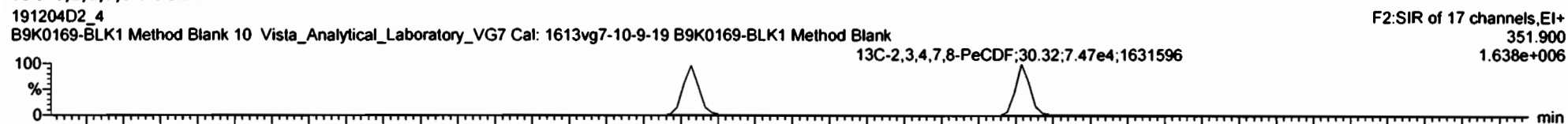


Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

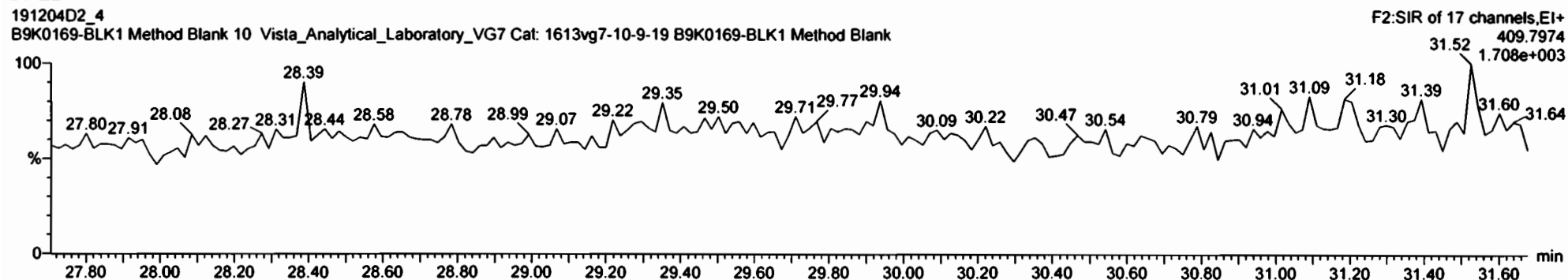
Total Penta-Furans



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



DPE2



Vista Analytical Laboratory

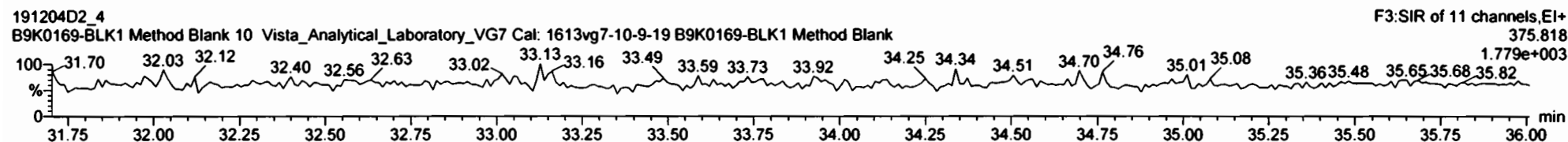
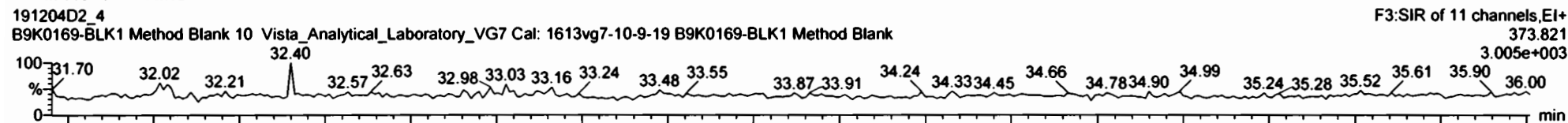
Dataset: Untitled

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

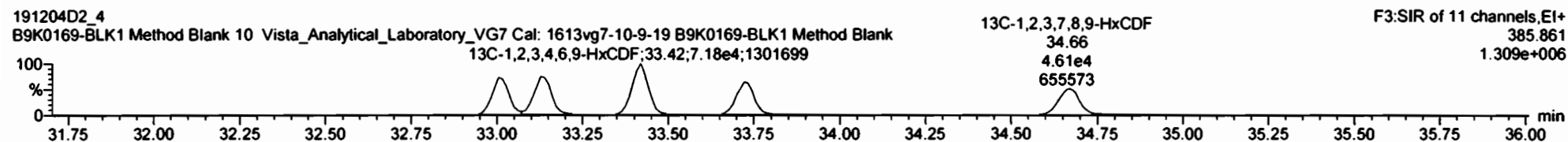
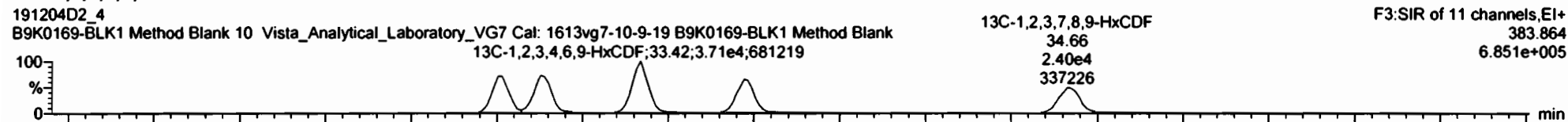
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

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

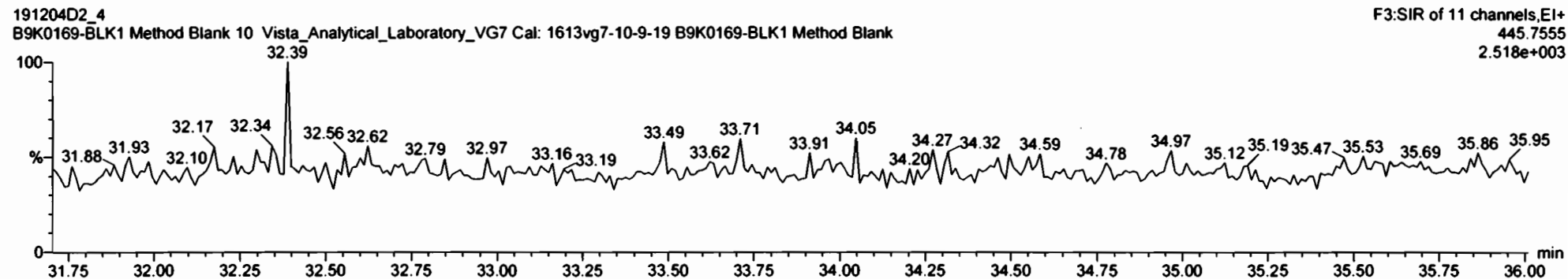
Total Hexa-Furans



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



DPE3



Vista Analytical Laboratory

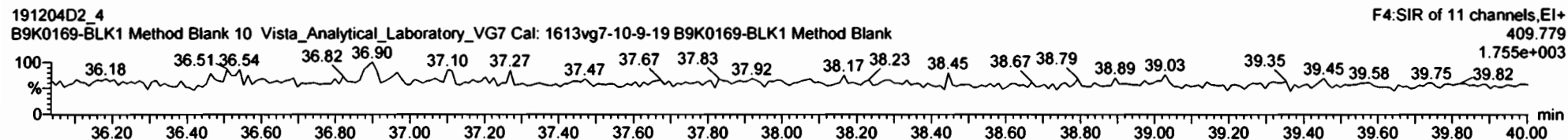
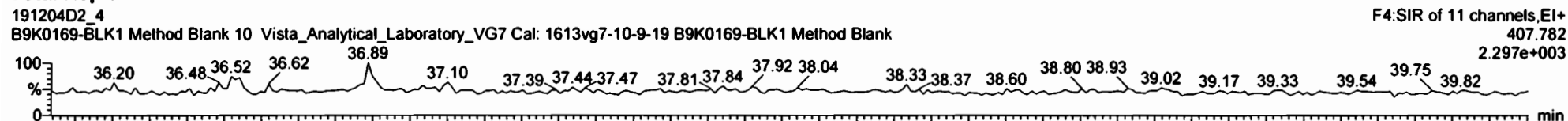
Dataset: Untitled

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

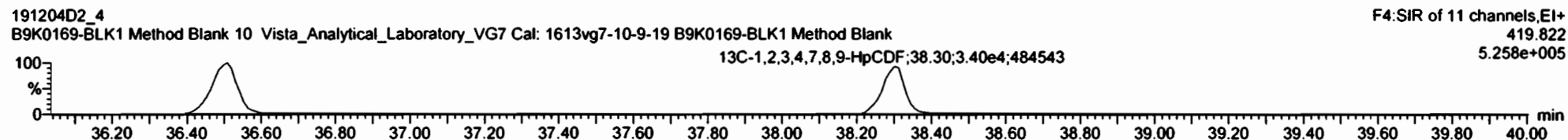
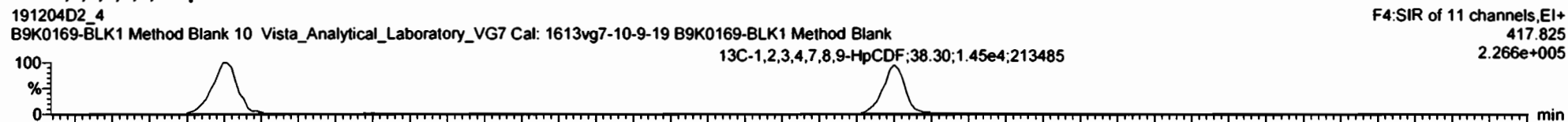
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

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

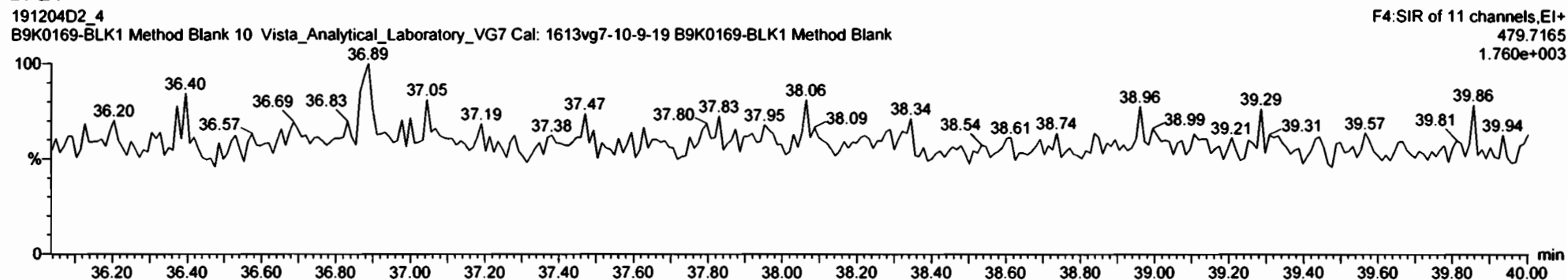
Total Hepta-Furans



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



DPE4



Vista Analytical Laboratory

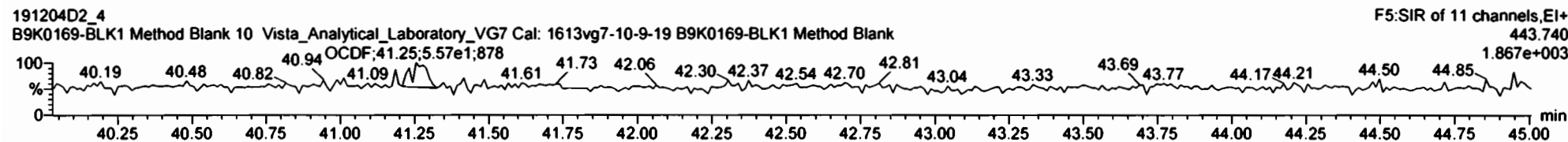
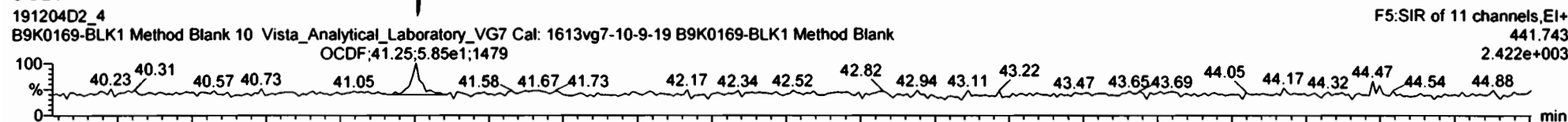
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

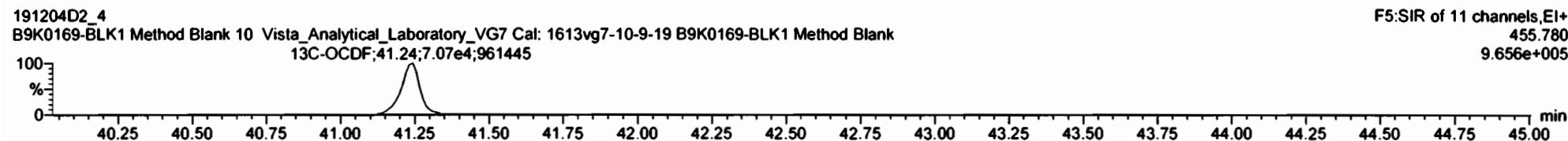
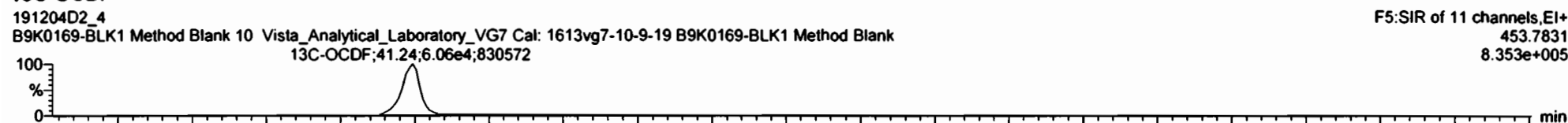
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

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

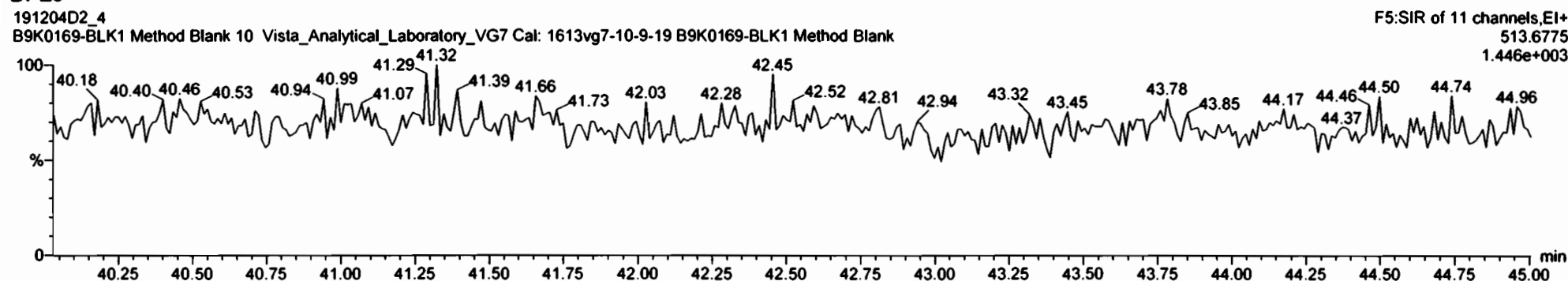
OCDF



13C-OCDF



DPE5

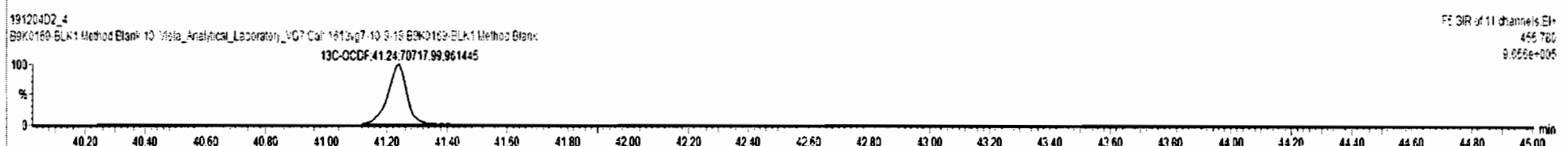
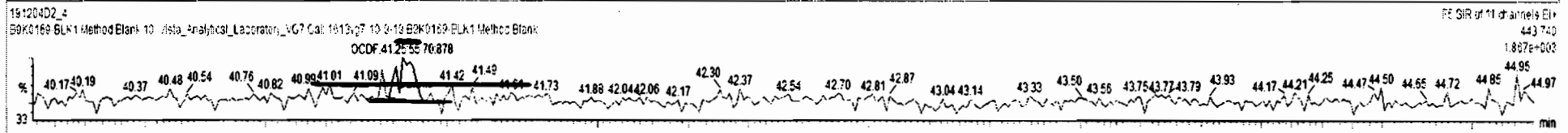
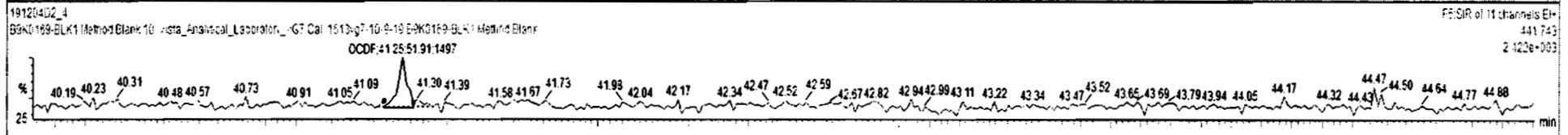




191204D2_4 - B9K0169-BLK1 Method Blank - B9K0169-BLK1 Method Blank 10 - Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

#	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	20.60	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		0.598
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

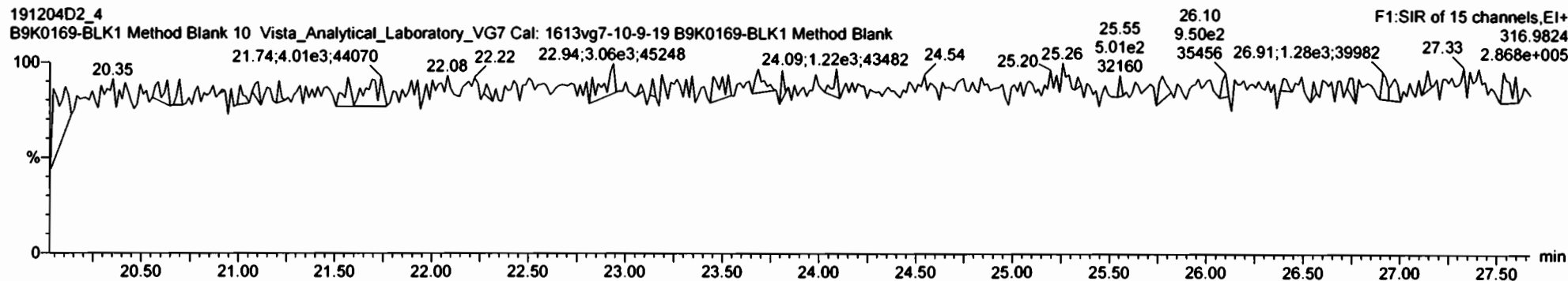
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

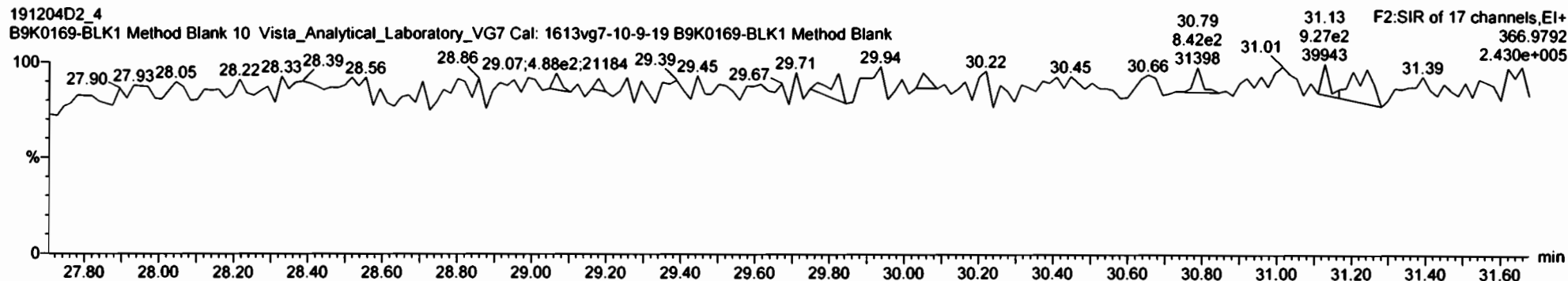
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

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

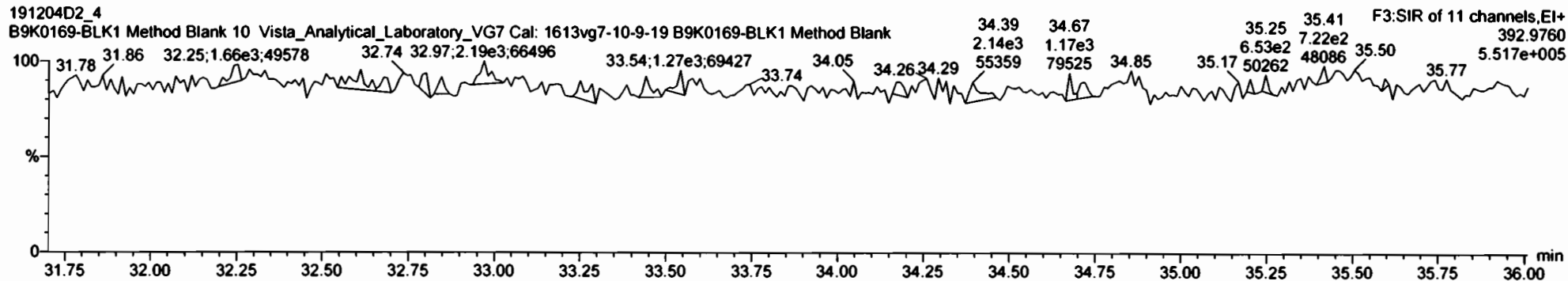
PFK1



PFK2

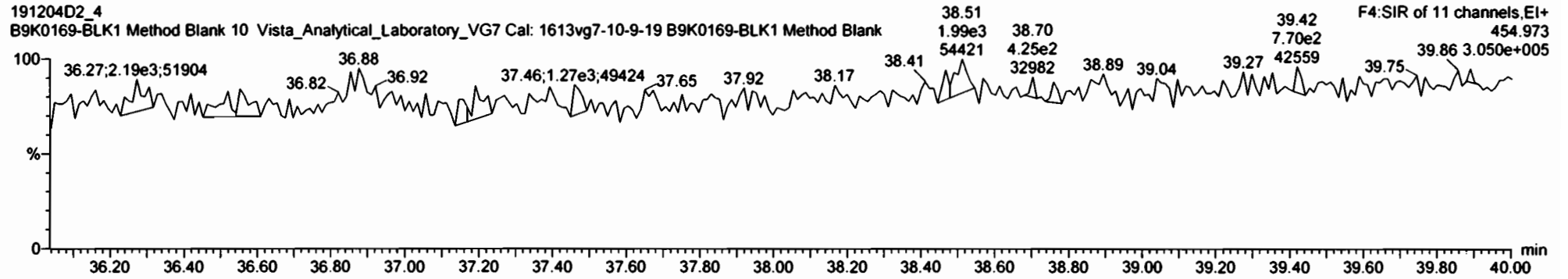


PFK3

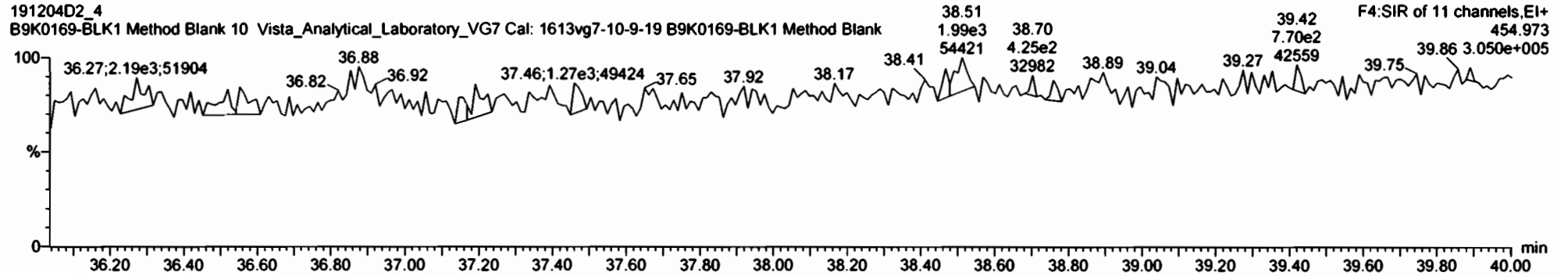


Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

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	Wt/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

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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

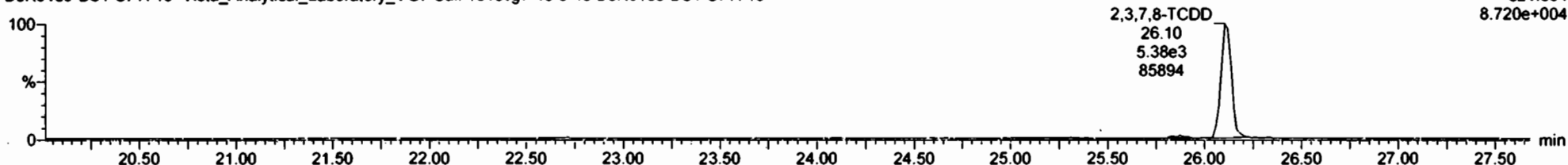
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F1:SIR of 15 channels,EI+
319.8965
6.733e+004



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

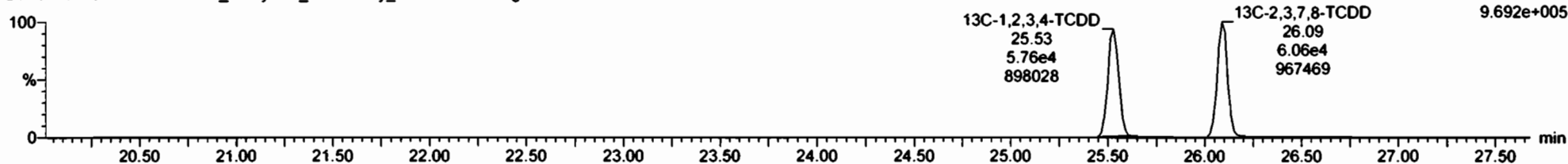
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F1:SIR of 15 channels,EI+
331.9368
7.846e+005



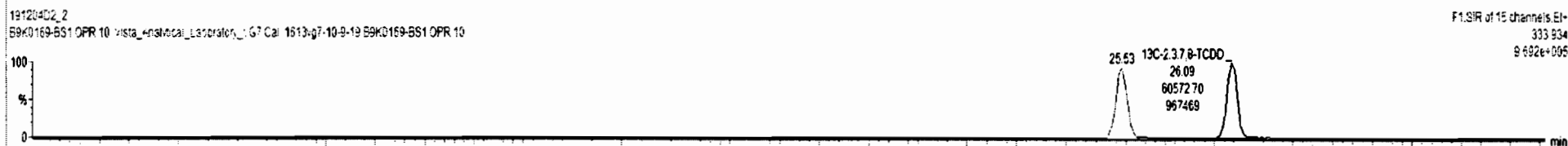
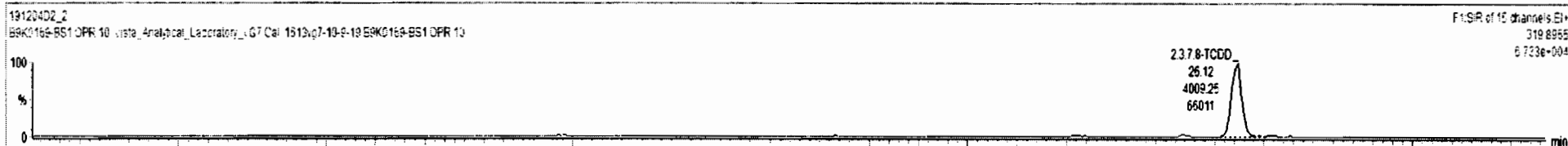
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F1:SIR of 15 channels,EI+
333.934
9.692e+005



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	5.91e4	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	7,8,9,10-HxCDF	4.71e4	1.17	NO		10.000	33.78	1.001	90.4		0.490	90.4

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



Vista Analytical Laboratory

Dataset: Untitled

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

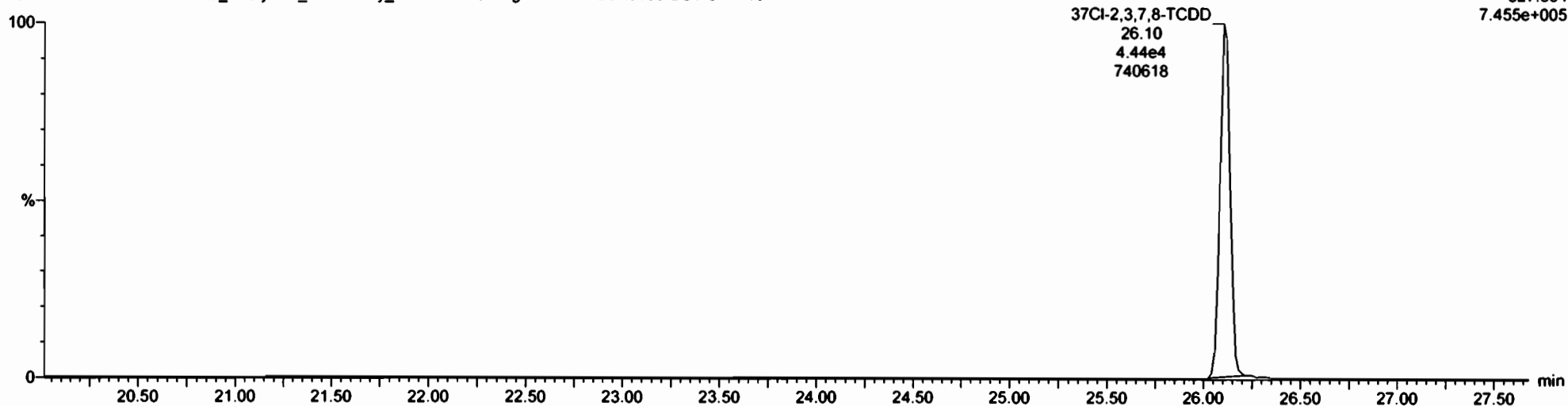
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 Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

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

191204D2_2
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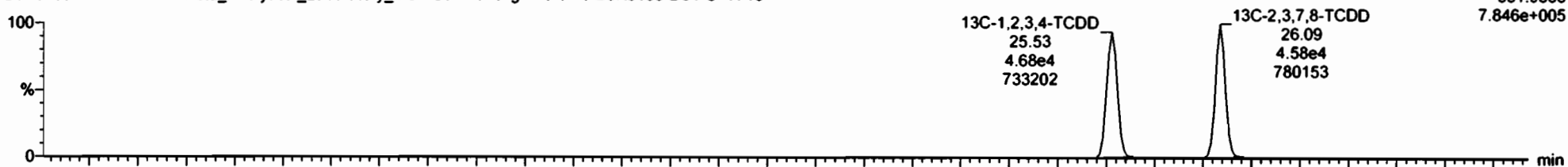
F1:SIR of 15 channels,EI+
 327.884
 7.455e+005



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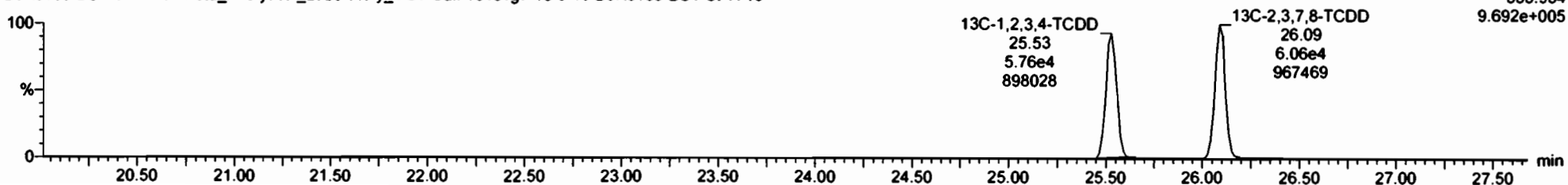
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 B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

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

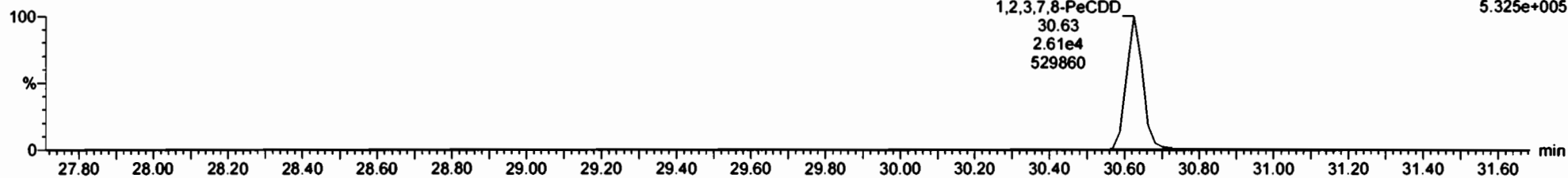
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B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

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

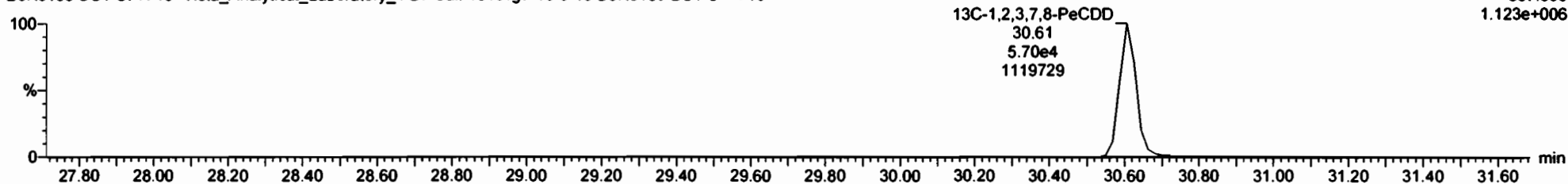
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F2:SIR of 17 channels,EI+
365.8978
7.076e+005



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

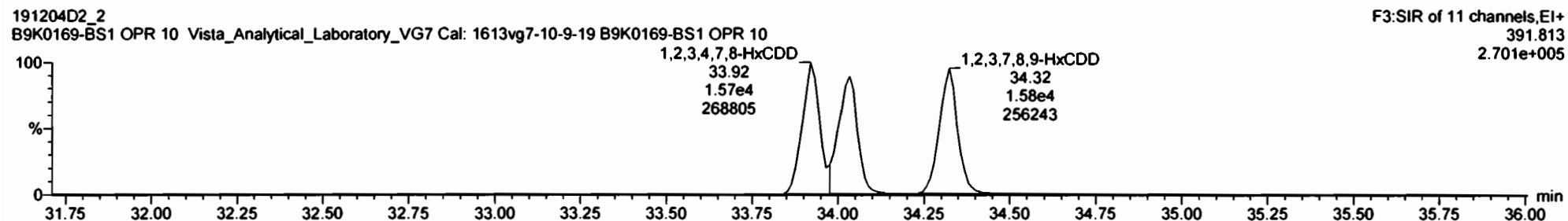
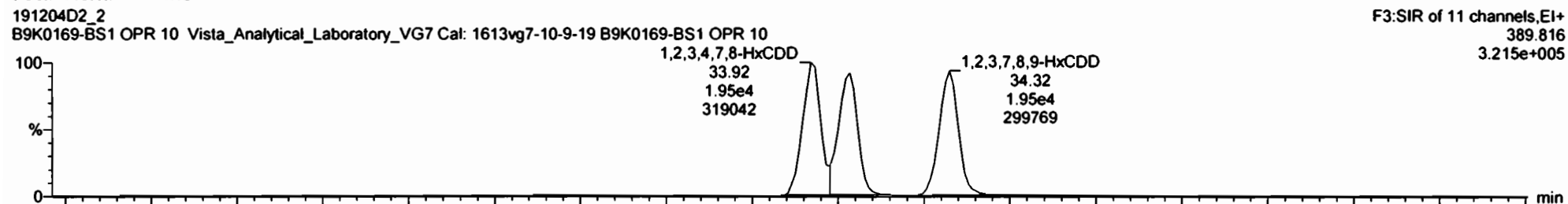
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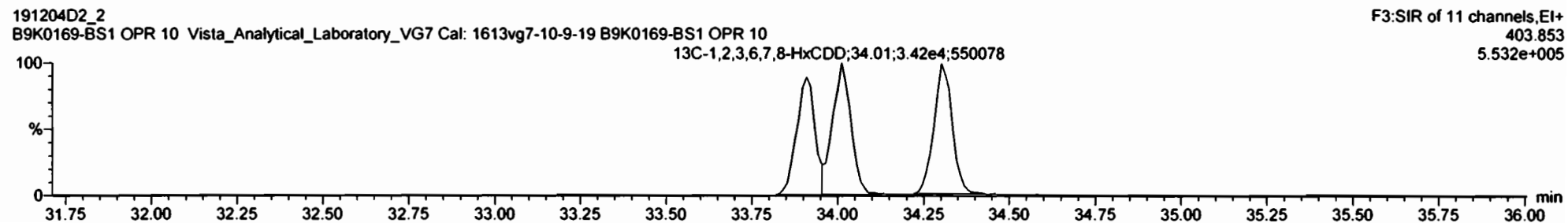
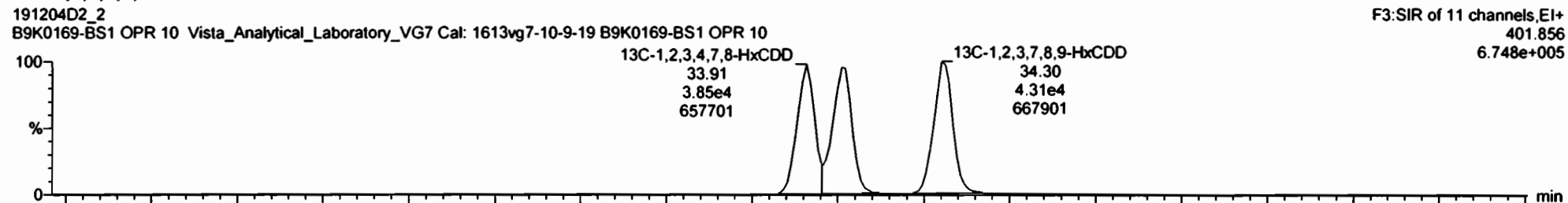
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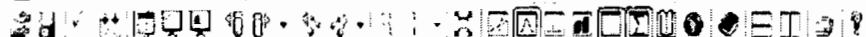
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Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hexa-Dioxins



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

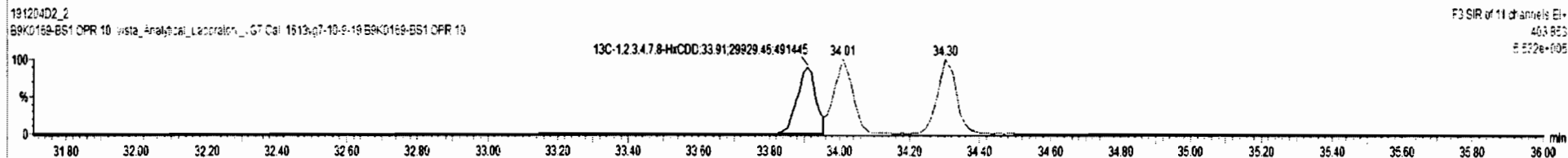
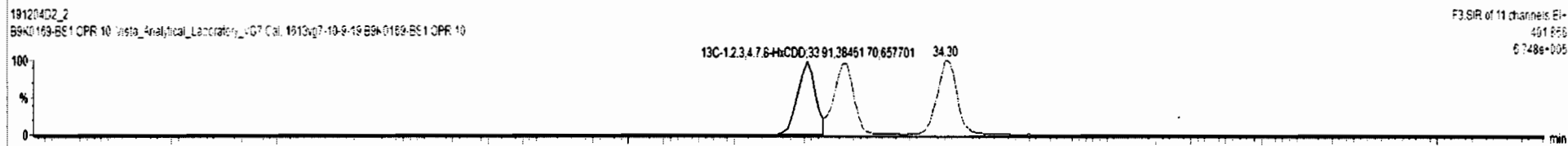
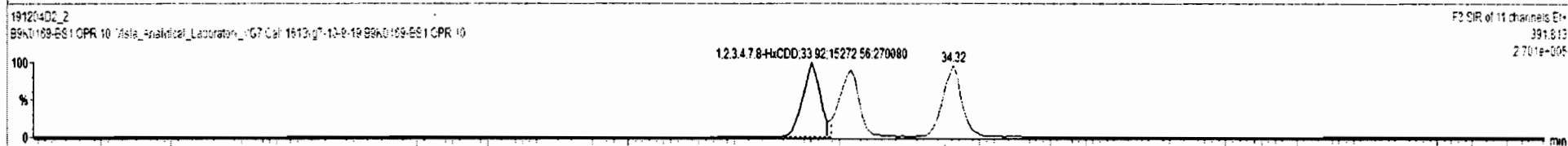
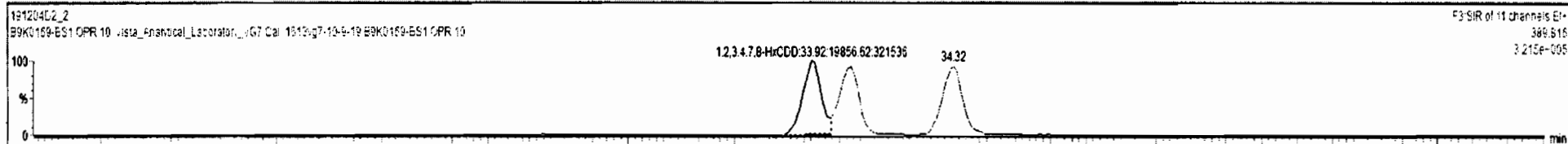




19120402_2 B9K0169-BS1 QPR 10 B9K0169-BS1 QPR 10 Vista Analytical Laboratory_V07 Cal 1613q7-10-9-19

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	37.76	1.001	90.5		0.490	90.5

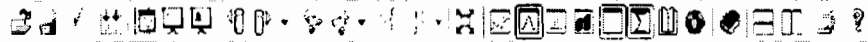
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							



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19120402_2

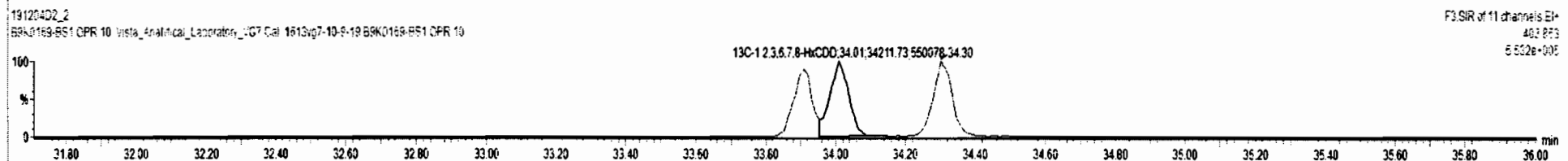
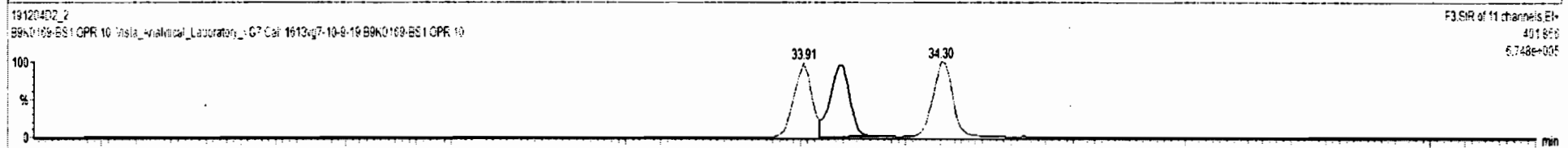
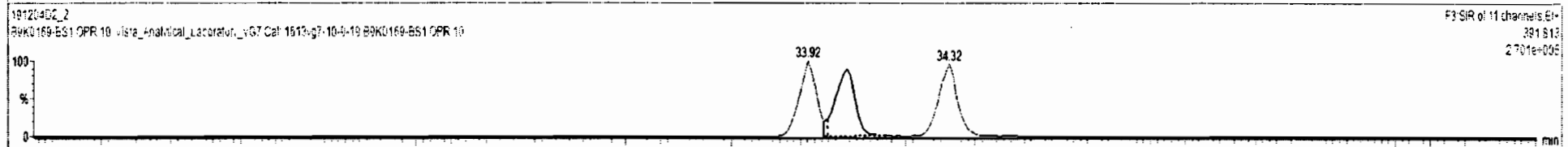
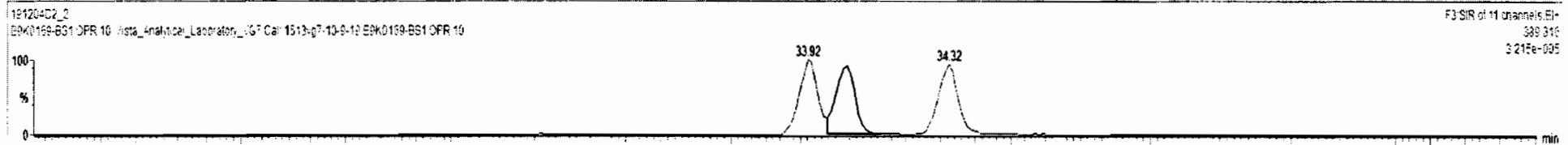
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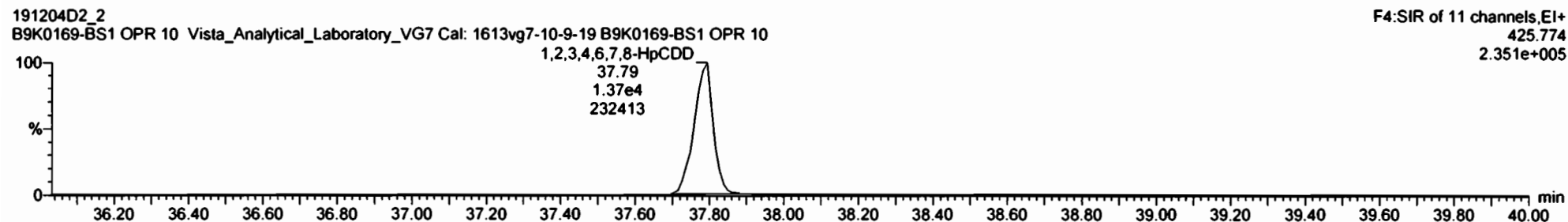
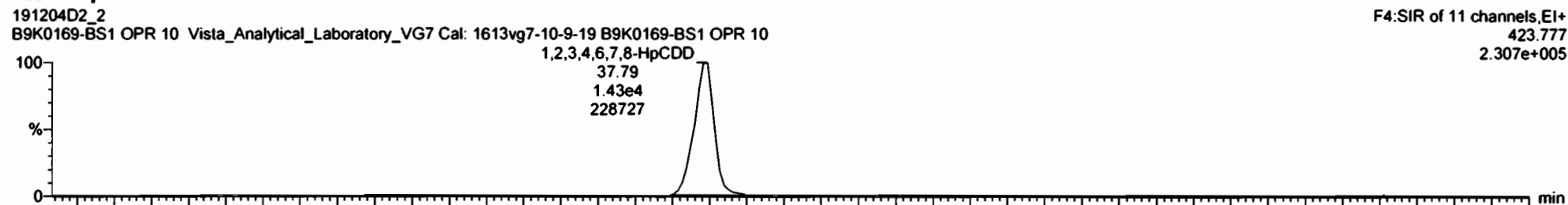
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1	1,2,3,7,8-TCDD	9.56e3	1.96e5	16	0.73	NO	0.605	10.000	26.12	26.12	1.001	1.001	NO	15.73	0.218	15.73	
2	1,2,3,7,8-PeCDD	4.17e4	9.32e4	19	0.60	NO	0.903	10.000	33.63	33.62	1.001	1.001	NO	95.17	0.308	95.17	
3	1,2,3,4,7,8-HxCDD	3.51e4	6.54e4	20	1.30	NO	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										

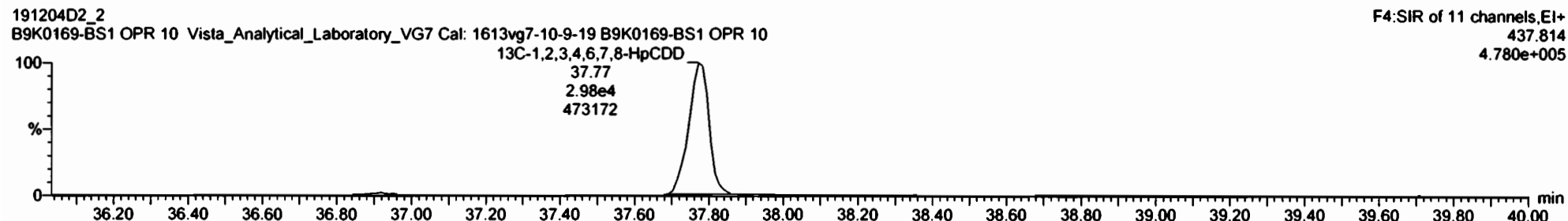
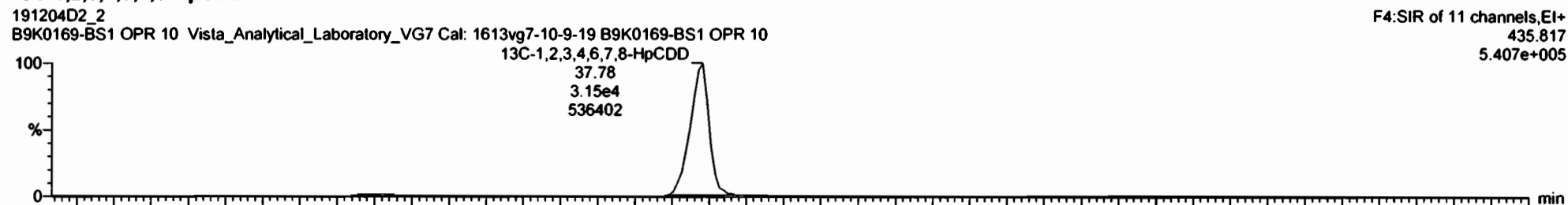


Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10,
Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hepta-Dioxins



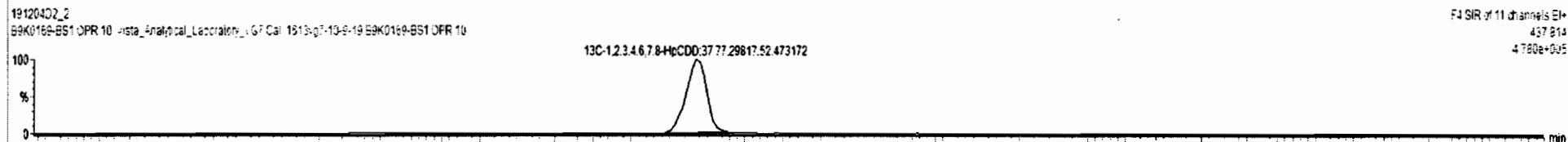
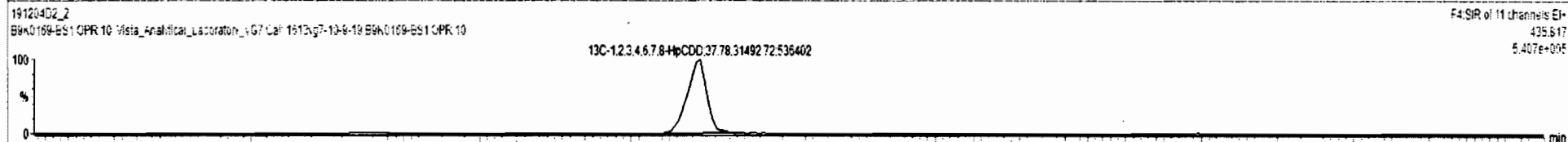
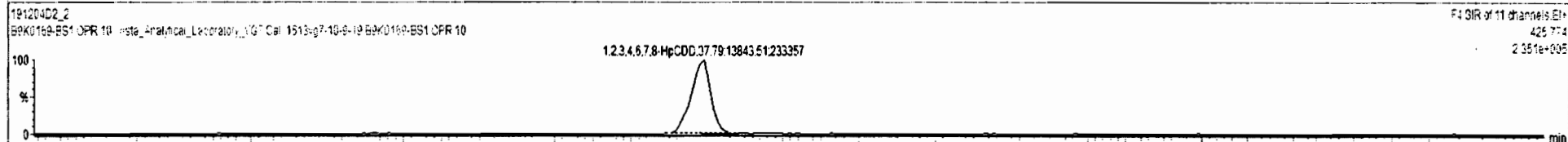
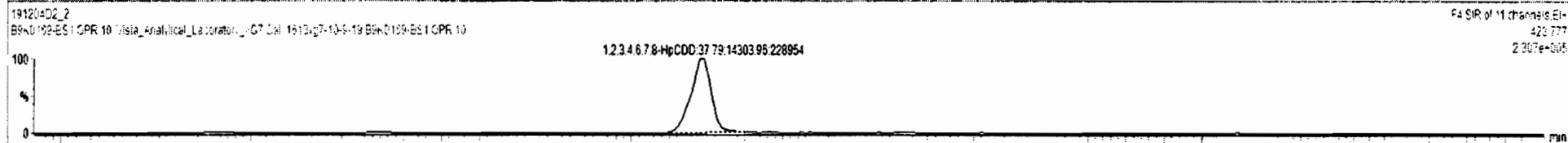
13C-1,2,3,4,6,7,8-HpCDD





#	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	1.080	1.080	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										

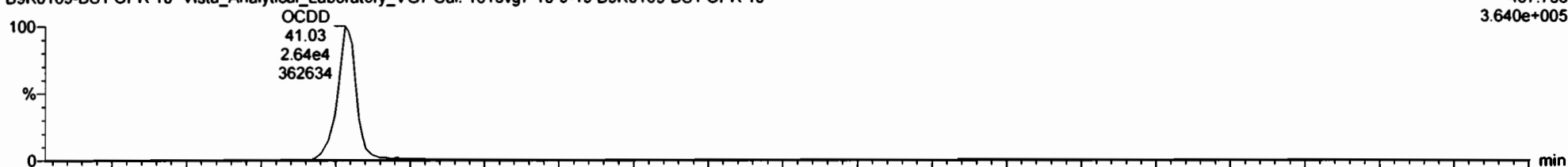


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Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

OCDD

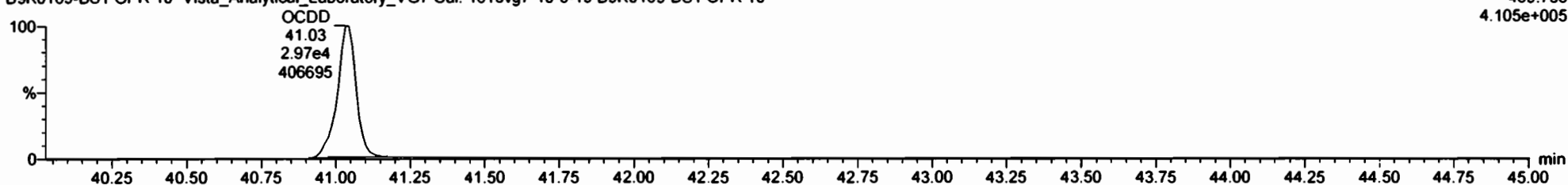
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B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

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

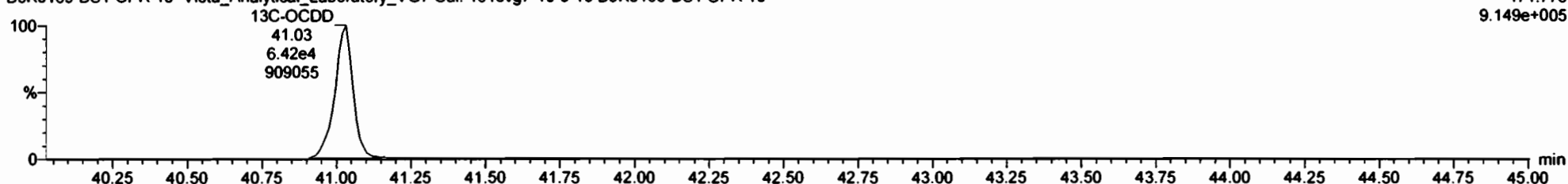
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8.294e+005



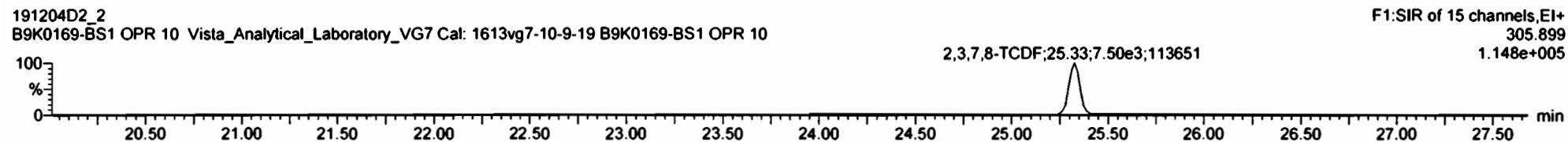
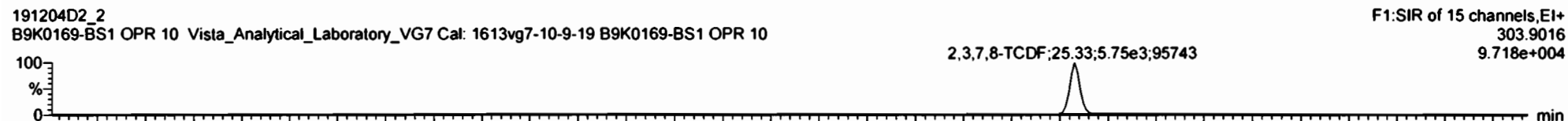
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F5:SIR of 11 channels,EI+
471.775
9.149e+005

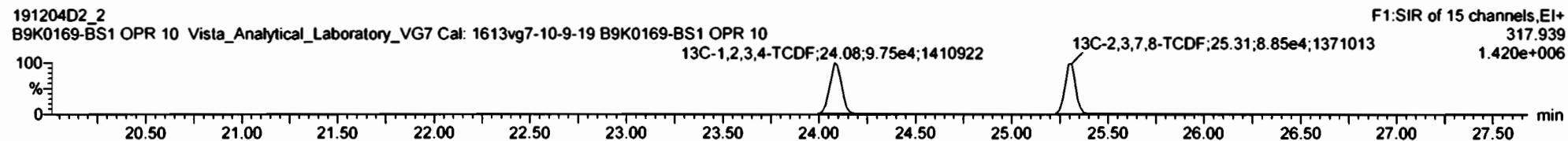
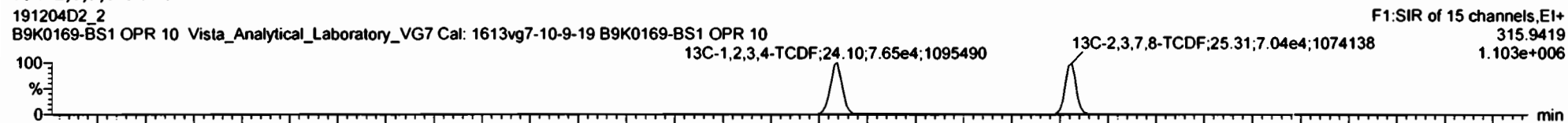


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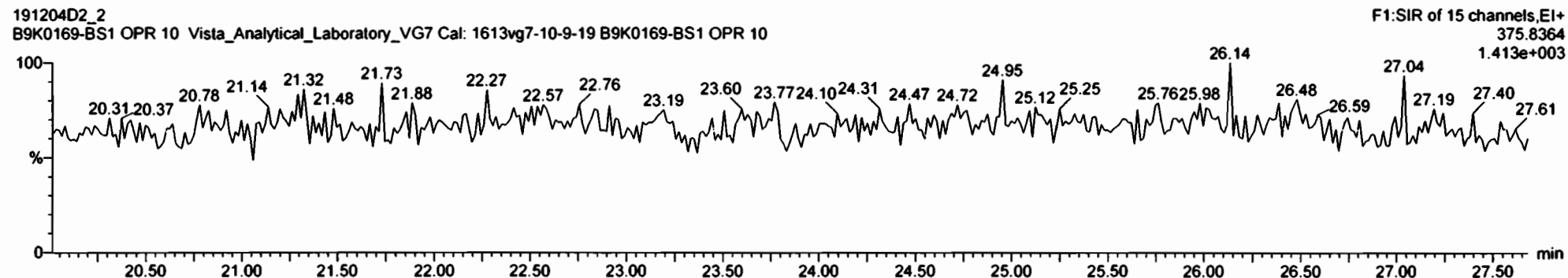
Total Tetra-Furans



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

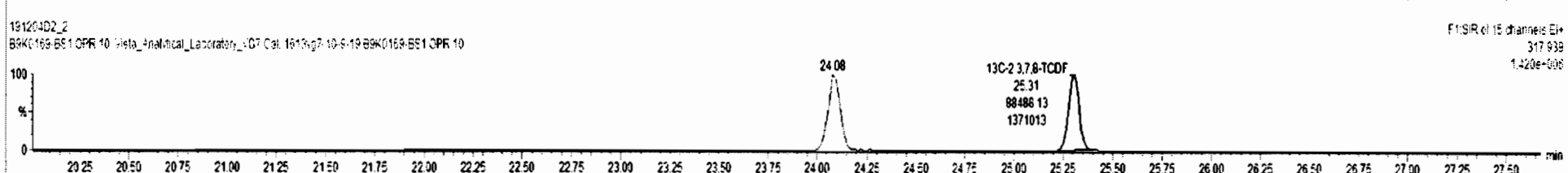
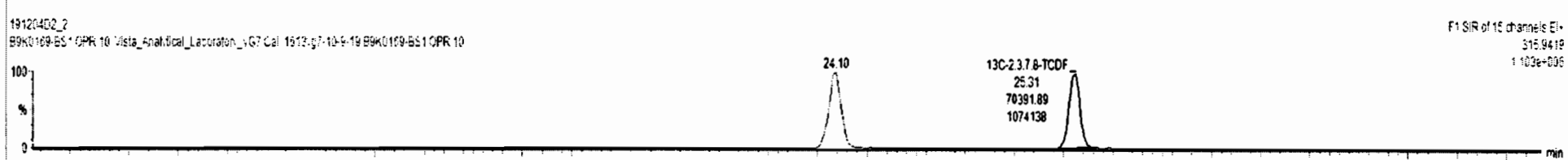
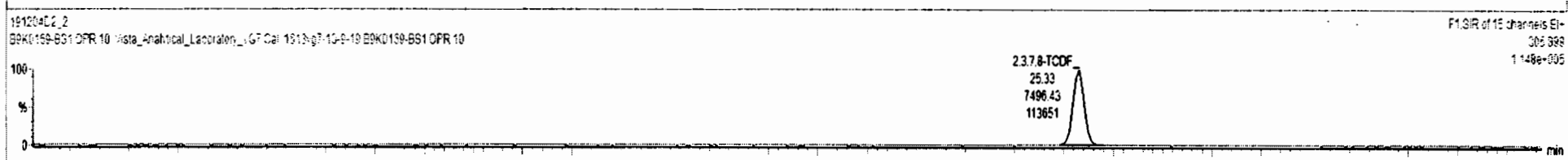
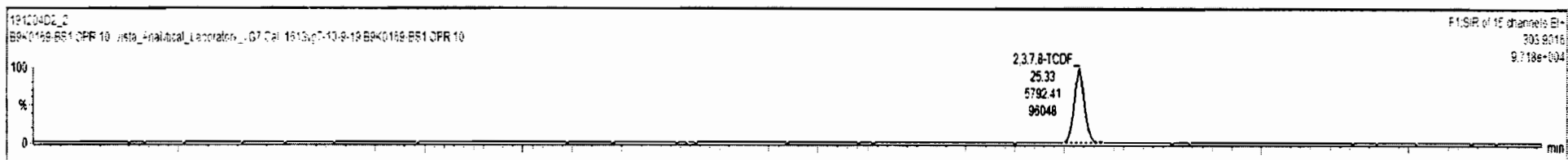


DPE1



#	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	0.60	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-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	33.05	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

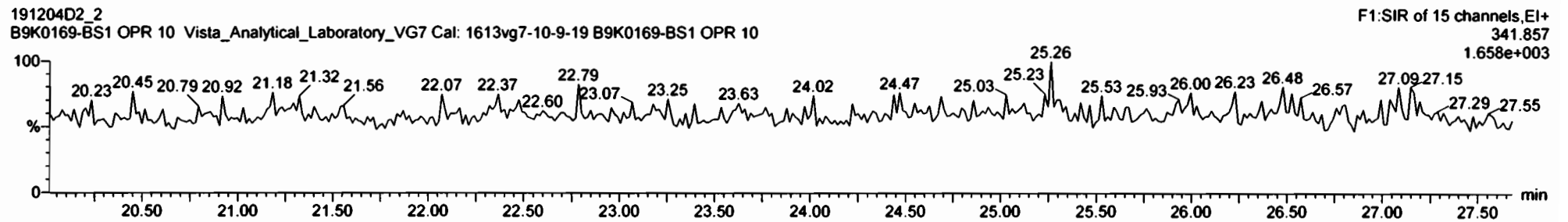
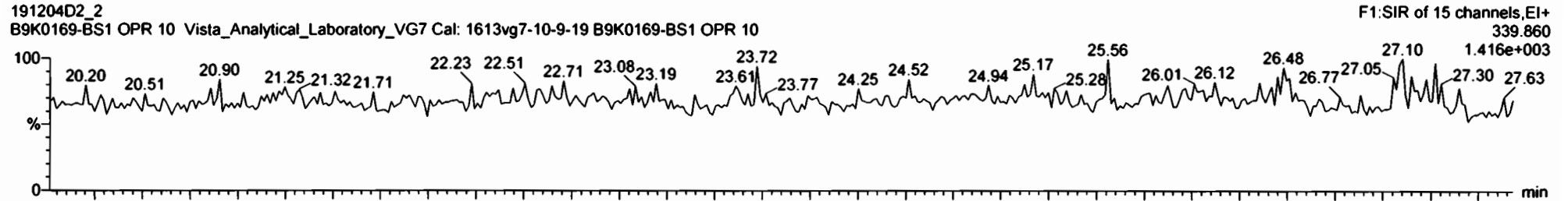
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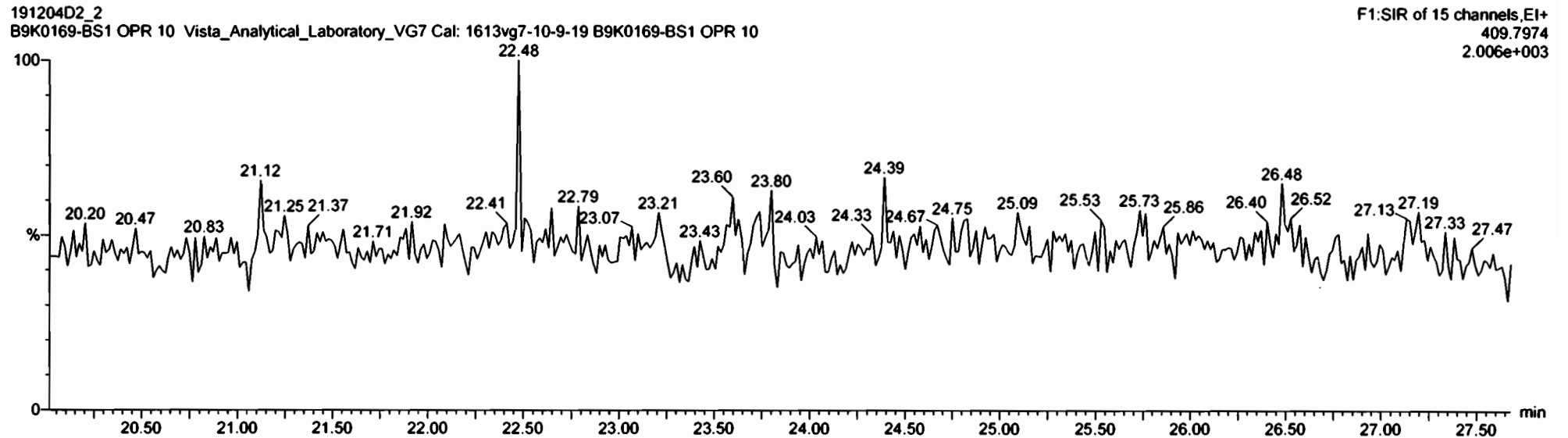
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Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

1st Func. Penta-Furans

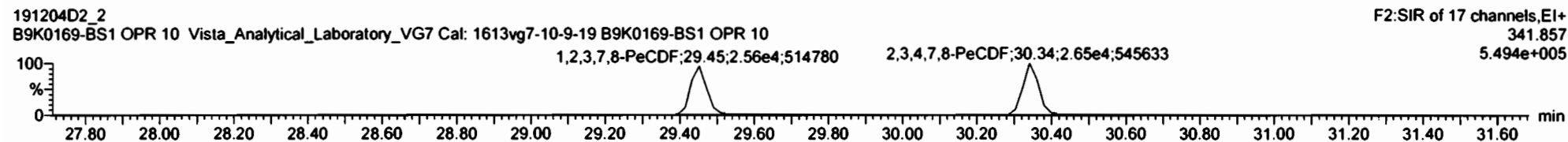
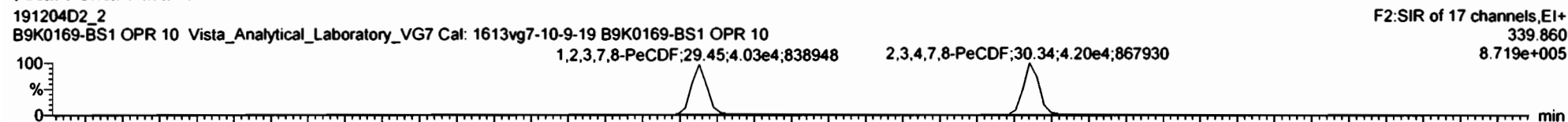


DPE6

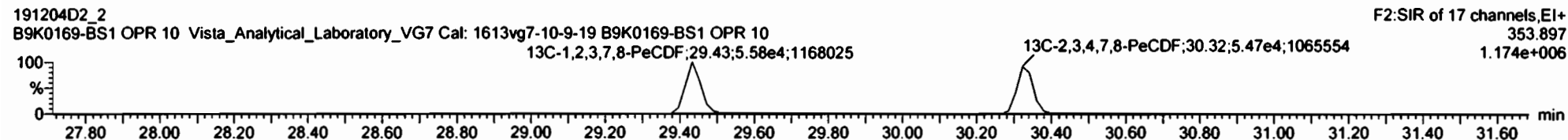
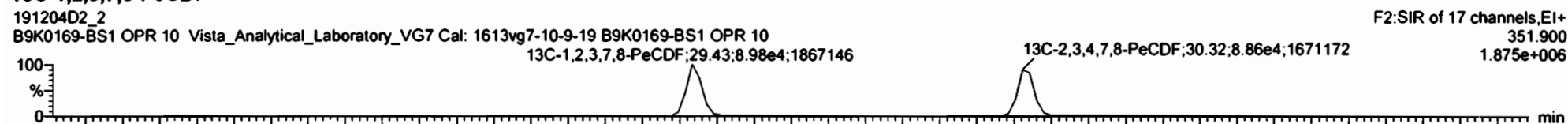


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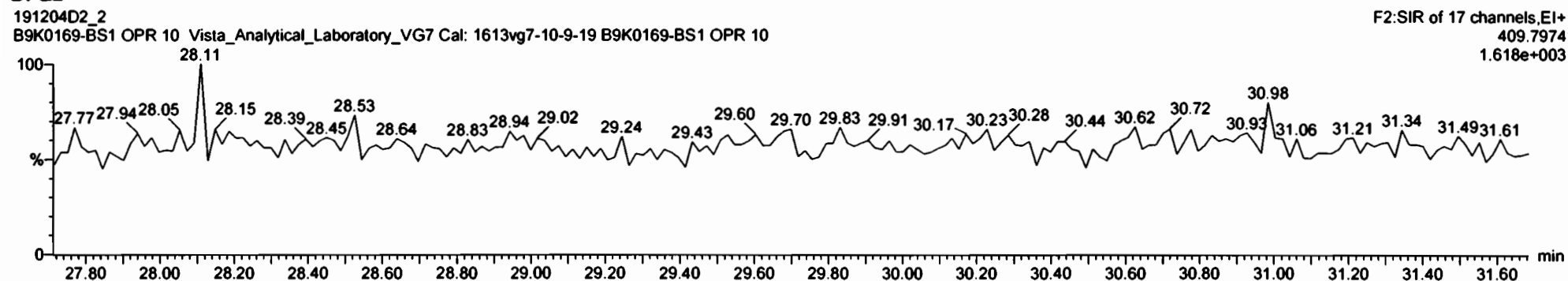
Total Penta-Furans



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

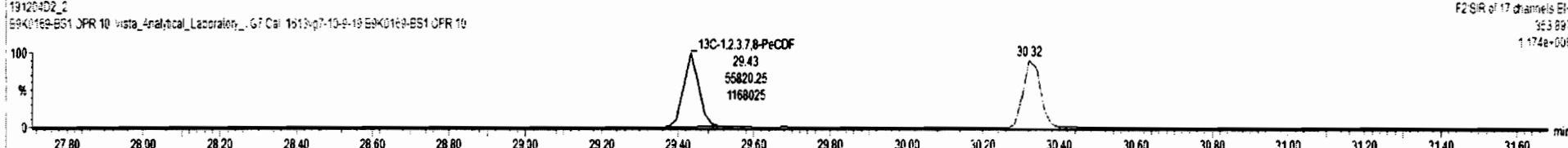
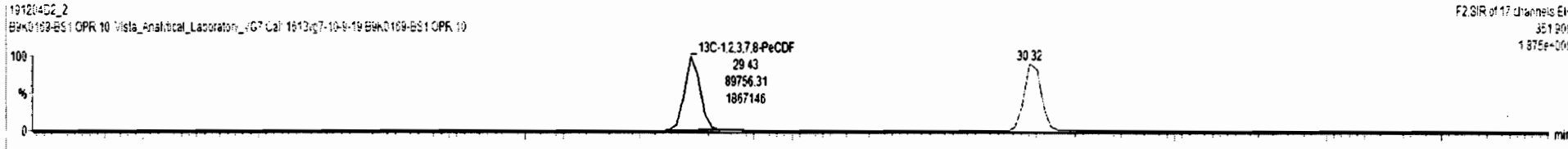
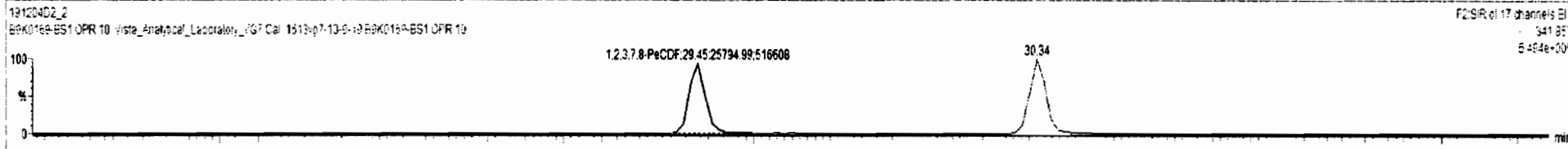
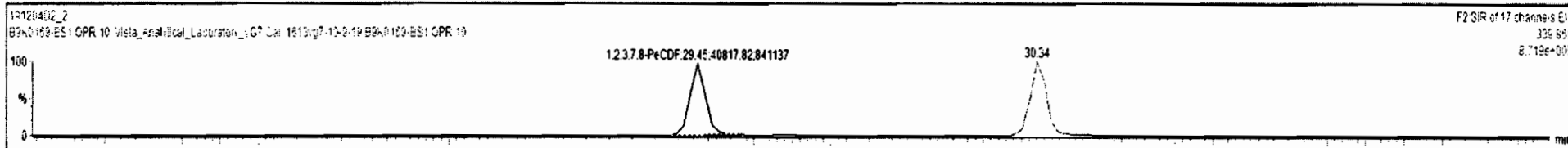


DPE2



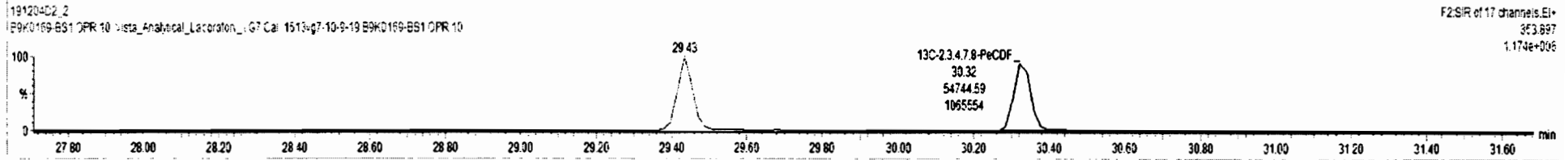
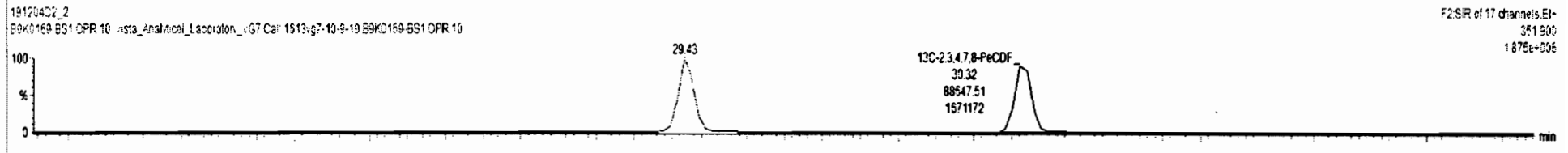
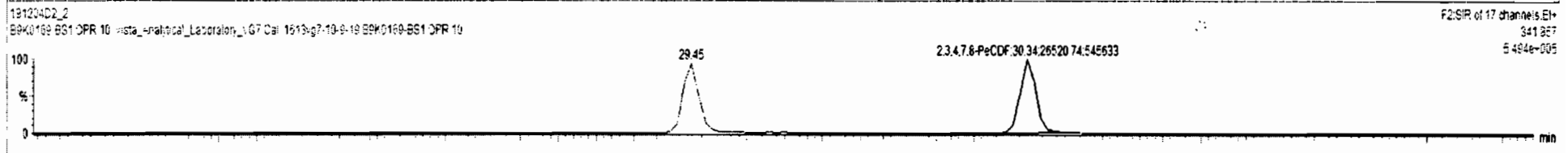
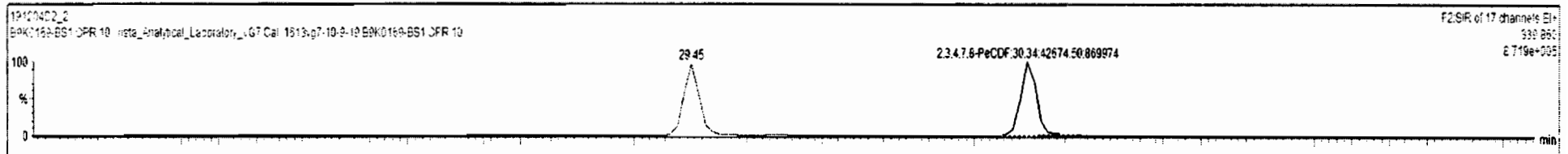
#	Name	Resp	IS Resp	ES	RA	n/y	RUF	w/col	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	9.50e3	1.06e5	16	0.73	NO	0.905	10.000	26.12	26.12	1.001	1.001	NO	19.73		0.218	19.73
2	1,2,3,7,8-PeCDD	4.17e4	9.32e4	19	0.60	NO	0.903	10.000	30.63	30.63	1.001	1.001	NO	99.17		0.308	99.17
3	1,2,3,4,7,8-HxCDD	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	6.05e4	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	4.75e4	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	9.36e4	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										



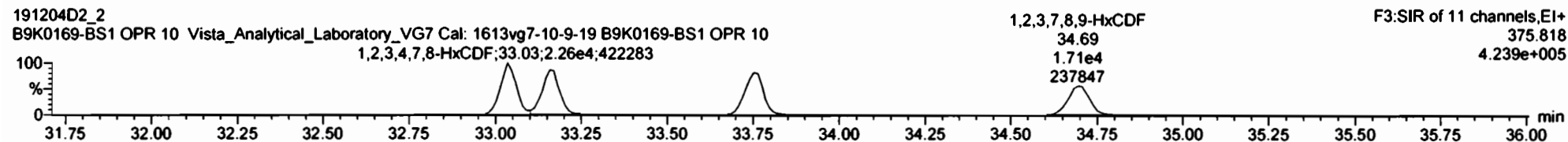
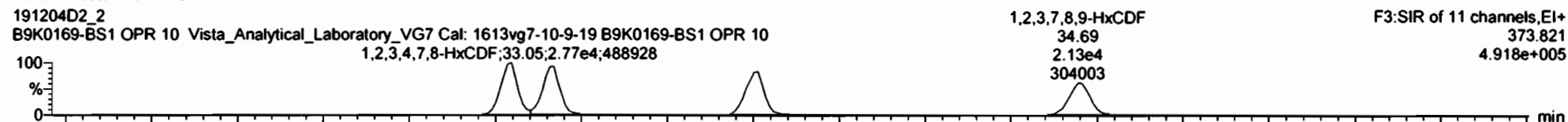
#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wrtvol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD	9.50e3	1.06e4	18	0.73	NO	0.905	10.500	26.12	26.12	1.001	1.001	NO	15.73	0.218	15.73	
2	1,2,3,7,8-PeCDD	4.17e4	9.32e4	19	0.60	NO	0.903	10.500	29.63	30.62	1.001	1.001	NO	99.17	0.398	99.17	
3	1,2,3,4,7,8-HxCDD	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	1,2,3,7,8-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	1.56	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	1,2,3,4,7,8-HpCDF	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										

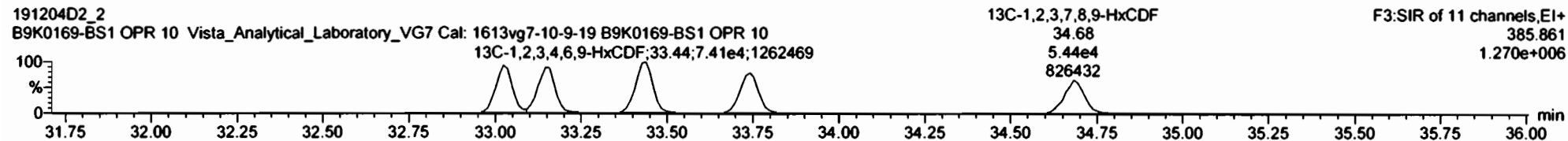
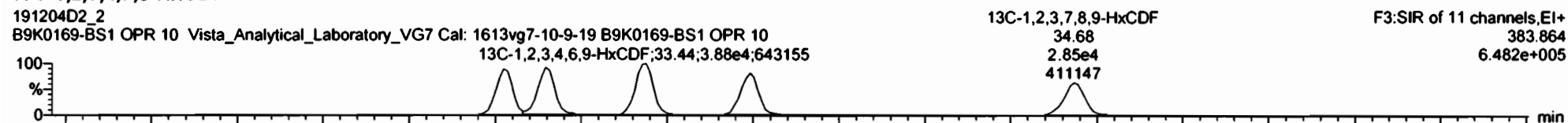


Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10,
 Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

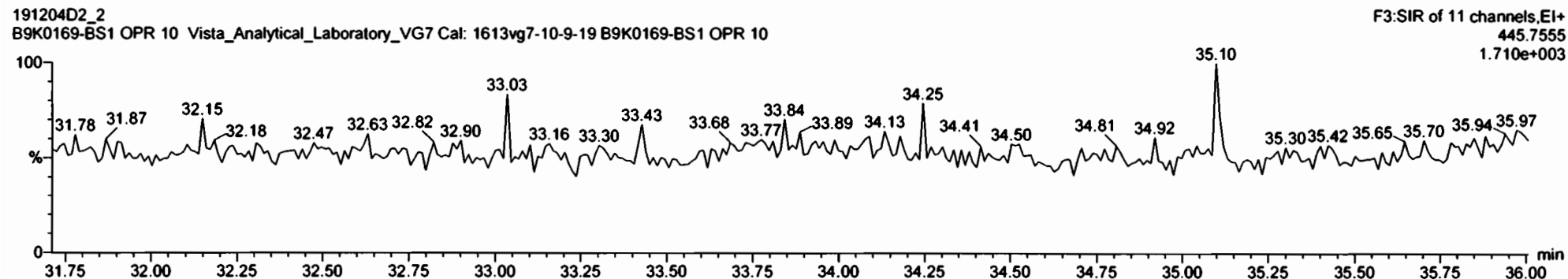
Total Hexa-Furans



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



DPE3



Vista Analytical Laboratory

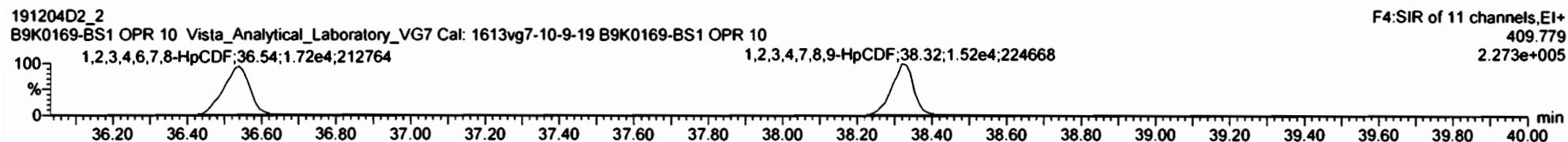
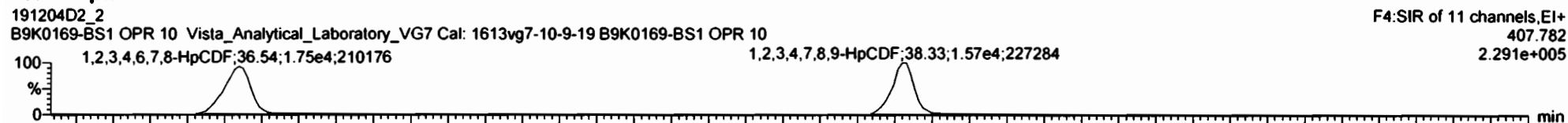
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

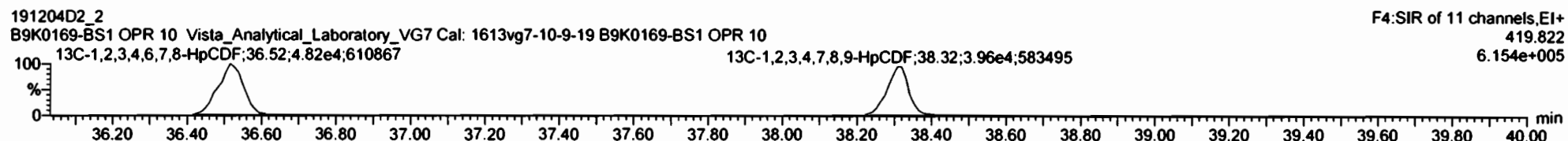
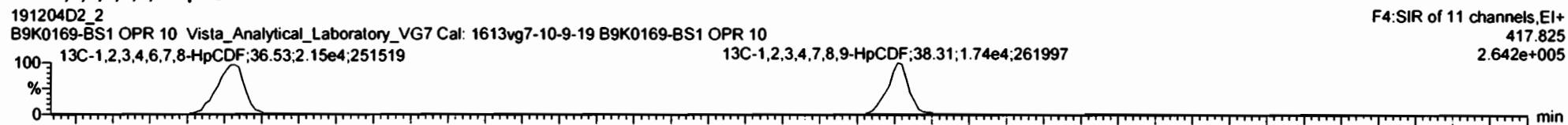
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

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

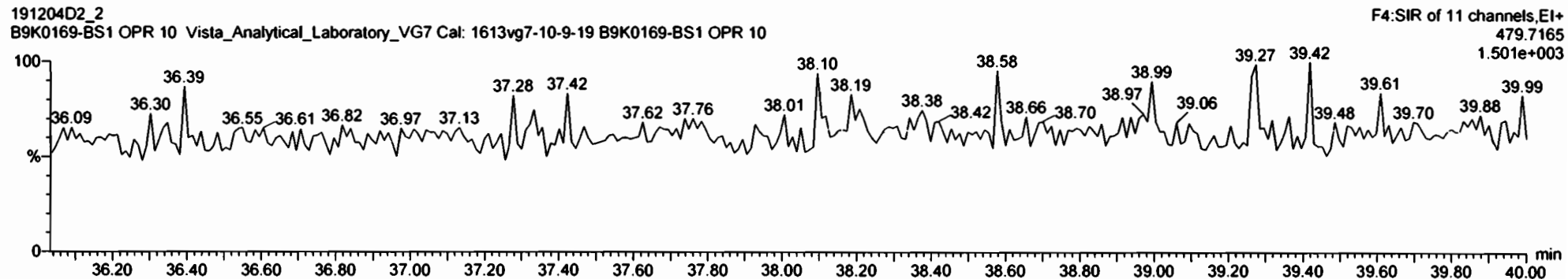
Total Hepta-Furans



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



DPE4



Vista Analytical Laboratory

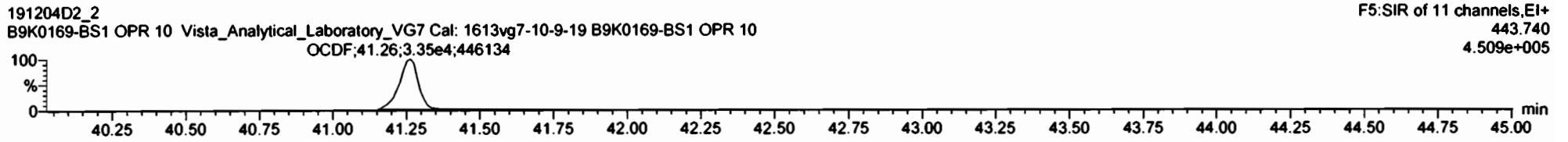
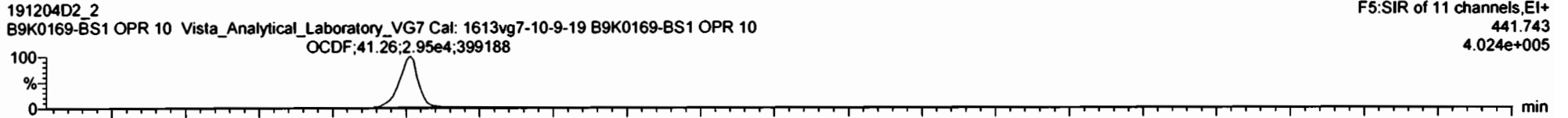
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

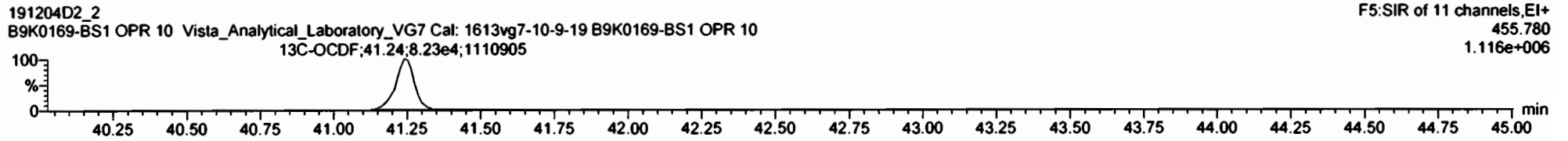
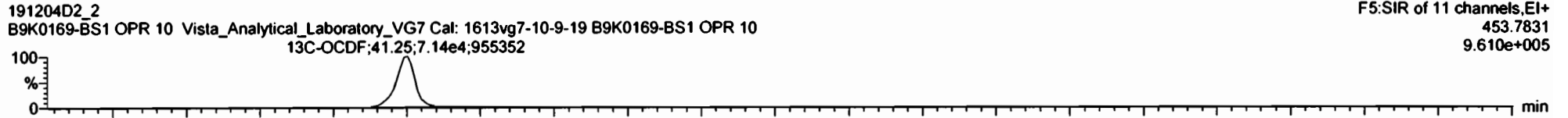
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

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

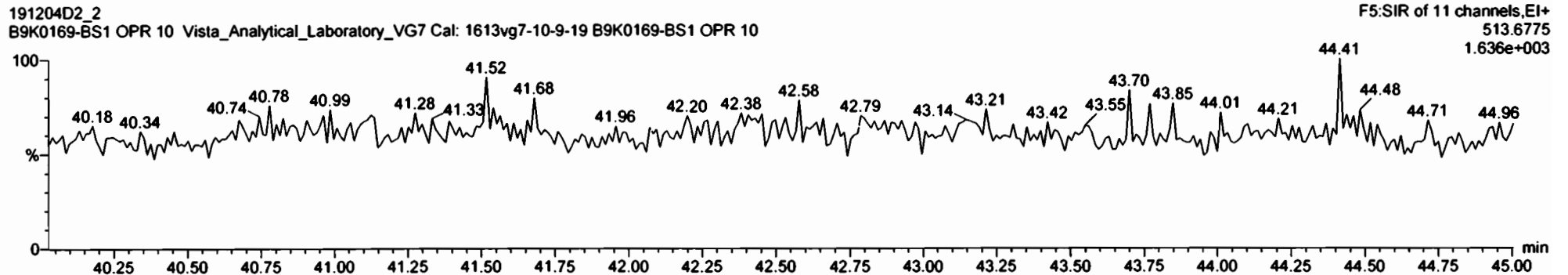
OCDF



13C-OCDF



DPES



Vista Analytical Laboratory

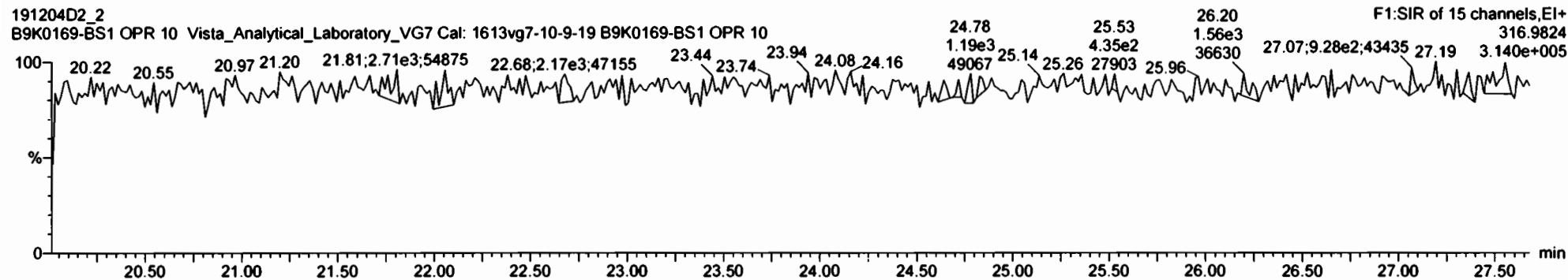
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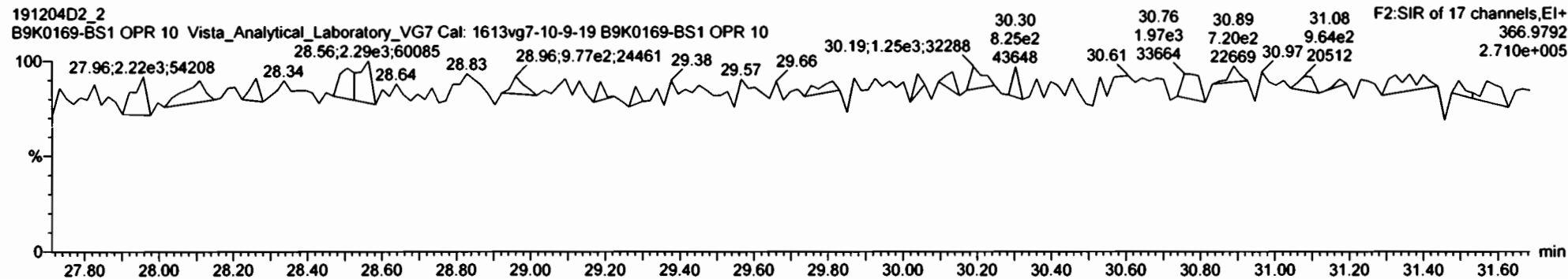
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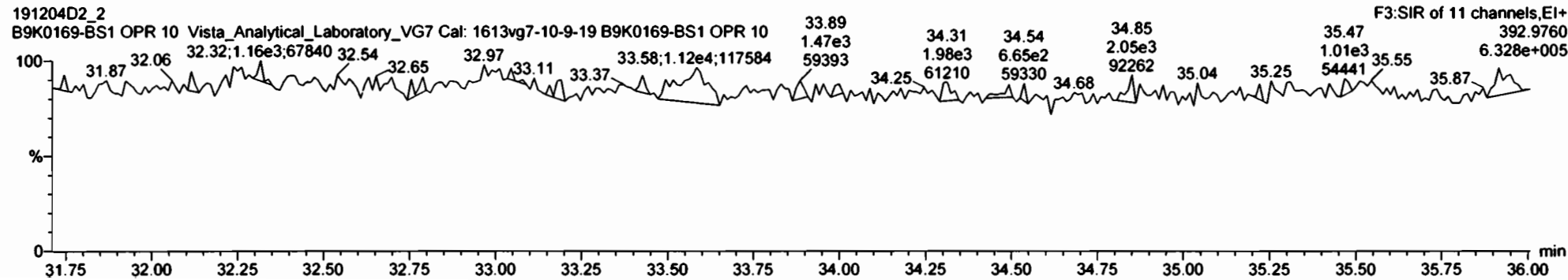
PFK1



PFK2



PFK3



Vista Analytical Laboratory

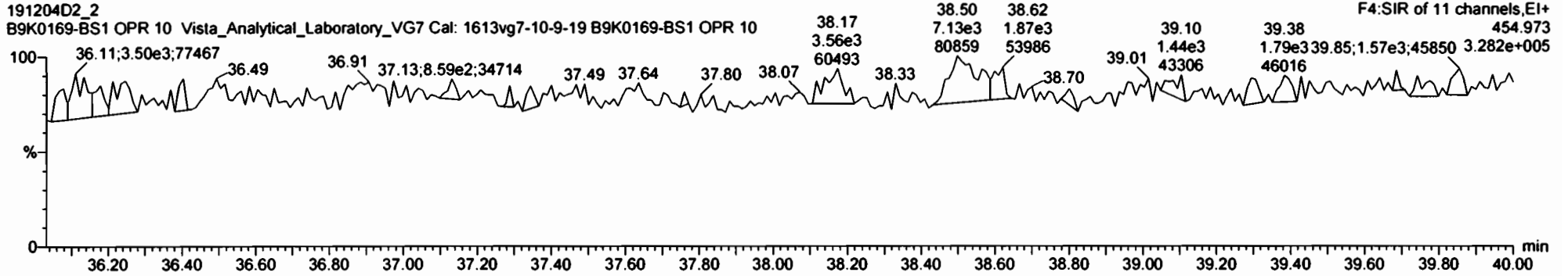
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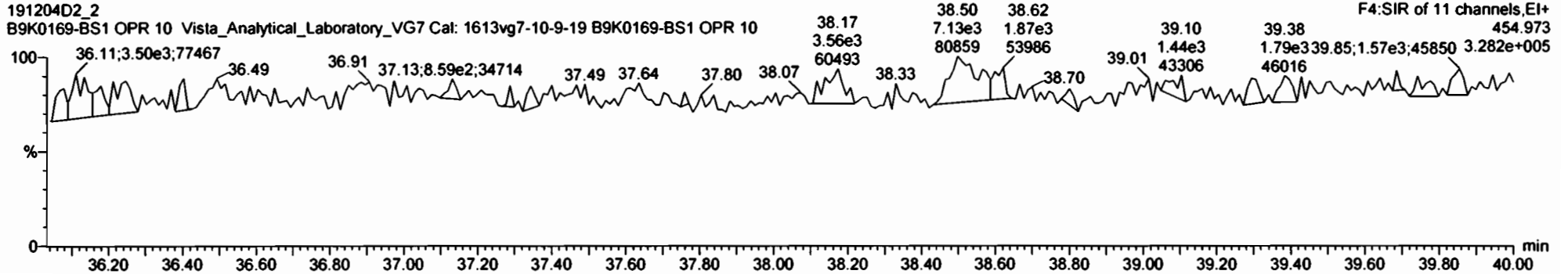
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Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

PFK4



PFK5



Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-5.qld
 Last Altered: Friday, December 06, 2019 15:04:24 Pacific Standard Time
 Printed: Friday, December 06, 2019 15:06:12 Pacific Standard Time

EL 12/6/19

CT 12/12/19

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

Calibration: 06 Dec 2019 12:19:45

Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108,
 Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 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		1.12e5	10.0882	0.905			1.001		26.10					0.208
2	2 1,2,3,7,8-PeCDD		1.03e5	10.0882	0.903			1.001		30.62					0.257
3	3 1,2,3,4,7,8-HxCDD		7.38e4	10.0882	1.101			1.000		33.90					0.332
4	4 1,2,3,6,7,8-HxCDD		8.37e4	10.0882	0.939			1.000		33.99					0.362
5	5 1,2,3,7,8,9-HxCDD		8.48e4	10.0882	0.961			1.001		34.32					0.349
6	6 1,2,3,4,6,7,8-HpCDD	2.79e3	6.90e4	10.0882	0.979	0.991	NO	1.000	1.000	37.77	37.77	8.1894		8.19	0.405
7	7 OCDD	1.75e4	1.36e5	10.0882	0.959	0.865	NO	1.000	1.000	41.02	41.03	53.084		53.1	0.356
8	8 2,3,7,8-TCDF		1.64e5	10.0882	0.950			1.001		25.30					0.222
9	9 1,2,3,7,8-PeCDF		1.70e5	10.0882	0.960			1.001		29.43					0.168
10	10 2,3,4,7,8-PeCDF		1.67e5	10.0882	1.015			1.001		30.35					0.149
11	11 1,2,3,4,7,8-HxCDF		1.10e5	10.0882	1.177			1.000		33.00					0.125
12	12 1,2,3,6,7,8-HxCDF		1.14e5	10.0882	1.069			1.000		33.14					0.131
13	13 2,3,4,6,7,8-HxCDF		1.00e5	10.0882	1.114			1.001		33.76					0.154
14	14 1,2,3,7,8,9-HxCDF		8.74e4	10.0882	1.062			1.000		34.66					0.209
15	15 1,2,3,4,6,7,8-HpCDF	2.65e2	7.16e4	10.0882	1.128	1.036	NO	1.001	1.001	36.53	36.52	0.64915		0.649	0.285
16	16 1,2,3,4,7,8,9-HpCDF		6.07e4	10.0882	1.280			1.000		38.30					0.225
17	17 OCDF	8.66e2	1.72e5	10.0882	0.947	0.793	NO	1.000	1.000	41.23	41.23	2.1112		2.11	0.233
18	18 13C-2,3,7,8-TCDD	1.12e5	9.97e4	10.0882	1.095	0.785	NO	1.021	1.022	26.05	26.07	203.14	102.5		0.485
19	19 13C-1,2,3,7,8-PeCDD	1.03e5	9.97e4	10.0882	0.881	0.622	NO	1.187	1.200	30.27	30.60	232.61	117.3		0.486
20	20 13C-1,2,3,4,7,8-Hx...	7.38e4	1.07e5	10.0882	0.642	1.271	NO	1.014	1.014	33.87	33.89	212.29	107.1		1.09
21	21 13C-1,2,3,6,7,8-Hx...	8.37e4	1.07e5	10.0882	0.856	1.295	NO	1.017	1.017	33.99	33.99	180.66	91.1		0.815
22	22 13C-1,2,3,7,8,9-Hx...	8.48e4	1.07e5	10.0882	0.807	1.309	NO	1.026	1.026	34.29	34.28	194.28	98.0		0.865
23	23 13C-1,2,3,4,6,7,8-H...	6.90e4	1.07e5	10.0882	0.654	1.031	NO	1.126	1.130	37.62	37.76	194.78	98.2		1.24
24	24 13C-OCDD	1.36e5	1.07e5	10.0882	0.580	0.899	NO	1.226	1.228	40.96	41.02	434.72	109.6		0.825
25	25 13C-2,3,7,8-TCDF	1.64e5	1.67e5	10.0882	1.035	0.782	NO	0.992	0.991	25.30	25.27	188.11	94.9		0.516
26	26 13C-1,2,3,7,8-PeCDF	1.70e5	1.67e5	10.0882	0.854	1.569	NO	1.154	1.153	29.43	29.41	236.60	119.3		0.807
27	27 13C-2,3,4,7,8-PeCDF	1.67e5	1.67e5	10.0882	0.847	1.587	NO	1.189	1.188	30.33	30.31	234.07	118.1		0.813
28	28 13C-1,2,3,4,7,8-Hx...	1.10e5	1.07e5	10.0882	0.832	0.518	NO	0.987	0.988	32.98	33.00	243.55	122.9		1.27
29	29 13C-1,2,3,6,7,8-Hx...	1.14e5	1.07e5	10.0882	1.034	0.517	NO	0.991	0.992	33.10	33.13	203.06	102.4		1.02
30	30 13C-2,3,4,6,7,8-Hx...	1.00e5	1.07e5	10.0882	0.953	0.520	NO	1.009	1.009	33.72	33.72	194.65	98.2		1.11
31	31 13C-1,2,3,7,8,9-Hx...	8.74e4	1.07e5	10.0882	0.828	0.511	NO	1.039	1.038	34.70	34.66	195.05	98.4		1.28

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-5.qld

Last Altered: Friday, December 06, 2019 15:04:24 Pacific Standard Time

Printed: Friday, December 06, 2019 15:06:12 Pacific Standard Time

Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108,
 Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 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...	7.16e4	1.07e5	10.0882	0.757	0.430	NO	1.093	1.092	36.51	36.50	174.70	88.1		1.10
33	33 13C-1,2,3,4,7,8,9-H...	6.07e4	1.07e5	10.0882	0.581	0.427	NO	1.143	1.146	38.19	38.30	192.98	97.3		1.44
34	34 13C-OCDF	1.72e5	1.07e5	10.0882	0.689	0.891	NO	1.233	1.234	41.20	41.23	460.50	116.1		0.643
35	35 37Cl-2,3,7,8-TCDD	4.46e4	9.97e4	10.0882	1.198			1.022	1.023	26.07	26.08	74.033	93.4		0.203
36	36 13C-1,2,3,4-TCDD	9.97e4	9.97e4	10.0882	1.000	0.786	NO	1.000	1.000	25.50	25.51	198.25	100.0		0.531
37	37 13C-1,2,3,4-TCDF	1.67e5	1.67e5	10.0882	1.000	0.818	NO	1.000	1.000	24.06	24.06	198.25	100.0		0.534
38	38 13C-1,2,3,4,6,9-Hx...	1.07e5	1.07e5	10.0882	1.000	0.517	NO	1.000	1.000	33.42	33.41	198.25	100.0		1.06
39	39 Total Tetra-Dioxins		1.12e5	10.0882	0.901			0.000		25.50					0.113
40	40 Total Penta-Dioxins		1.03e5	10.0882	0.872			0.000		30.00					0.118
41	41 Total Hexa-Dioxins		0.00e0	10.0882	0.976			0.000		33.90		0.00000		0.732	0.205
42	42 Total Hepta-Dioxins		6.90e4	10.0882	0.989			0.000		37.75		18.665		18.7	0.401
43	43 Total Tetra-Furans		1.64e5	10.0882	0.943			0.000		24.00					0.104
44	44 1st Func. Penta-Fur...		0.00e0	10.0882	0.940			0.000		27.63		0.50079		0.501	0.0475
45	45 Total Penta-Furans		0.00e0	10.0882	0.940			0.000		30.00		0.00000		0.326	0.0782
46	46 Total Hexa-Furans		0.00e0	10.0882	1.078			0.000		33.00		0.49140		0.885	0.155
47	47 Total Hepta-Furans		0.00e0	10.0882	1.135			0.000		37.75		2.0084		2.01	0.270

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-5.qld

Last Altered: Friday, December 06, 2019 15:04:24 Pacific Standard Time

Printed: Friday, December 06, 2019 15:06:12 Pacific Standard Time

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

Calibration: 06 Dec 2019 12:19:45

Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108,
 Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 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	32.39	288.163	45538.331	0.000	bb	0.0000	0.73

Hepta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	42 Total Hepta-Dioxins	NO	36.91	1792.977	35001.457	104.483	MM	10.4754	10.48
2	6 1,2,3,4,6,7,8-HpCDD	NO	37.77	1388.375	35001.457	80.914	MM	8.1894	8.19

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	27.08	248.654	103194.910	4.747	MM	0.5008	0.50

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-5.qld
 Last Altered: Friday, December 06, 2019 15:04:24 Pacific Standard Time
 Printed: Friday, December 06, 2019 15:06:12 Pacific Standard Time

Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108,
 Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 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	28.54	196.969	103194.910	0.000	MM	0.0000	0.33

Hexa-Furans

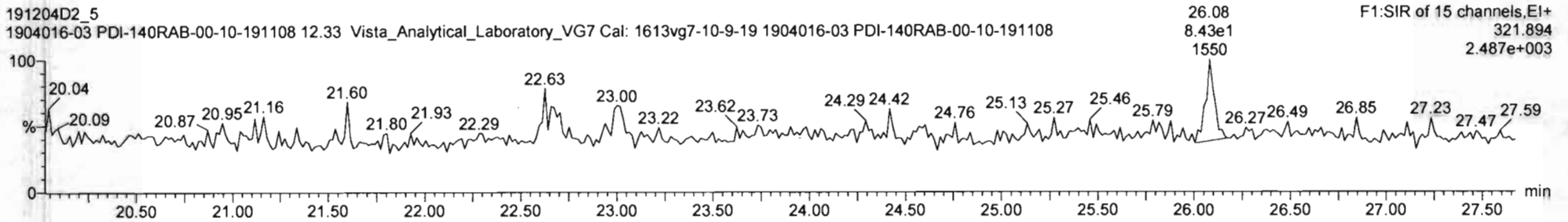
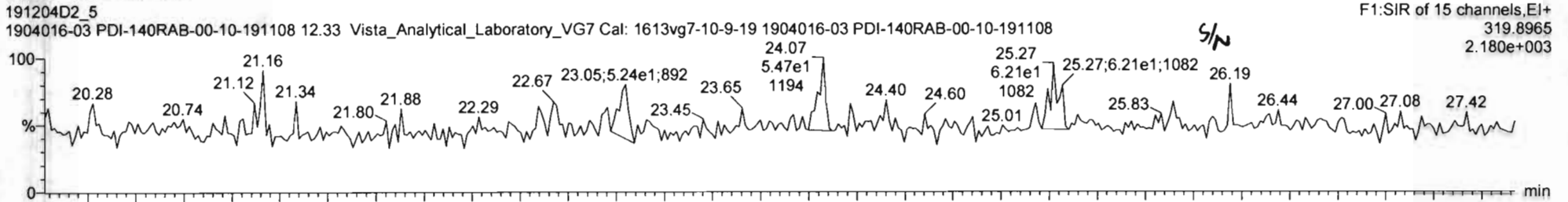
	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	46 Total Hexa-Furans	NO	32.00	154.530	35020.061	5.342	MM	0.4914	0.49
2	46 Total Hexa-Furans	YES	32.56	157.607	35020.061	0.000	MM	0.0000	0.39

Hepta-Furans

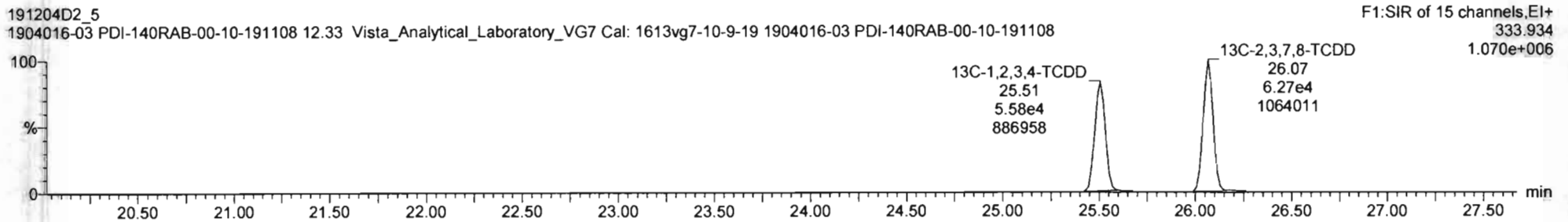
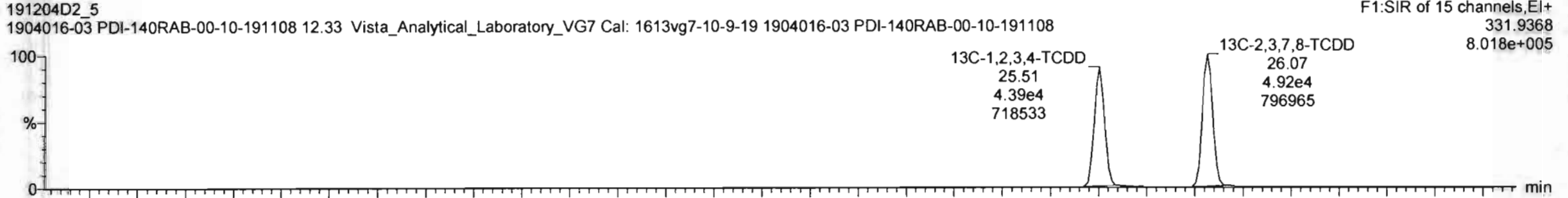
	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	NO	36.52	134.561	21530.951	7.384	MM	0.6492	0.65
2	47 Total Hepta-Furans	NO	37.12	262.313	19843.833	15.559	MM	1.3592	1.36

Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108,
 Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 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: Friday, December 06, 2019 10:31:48 Pacific Standard Time

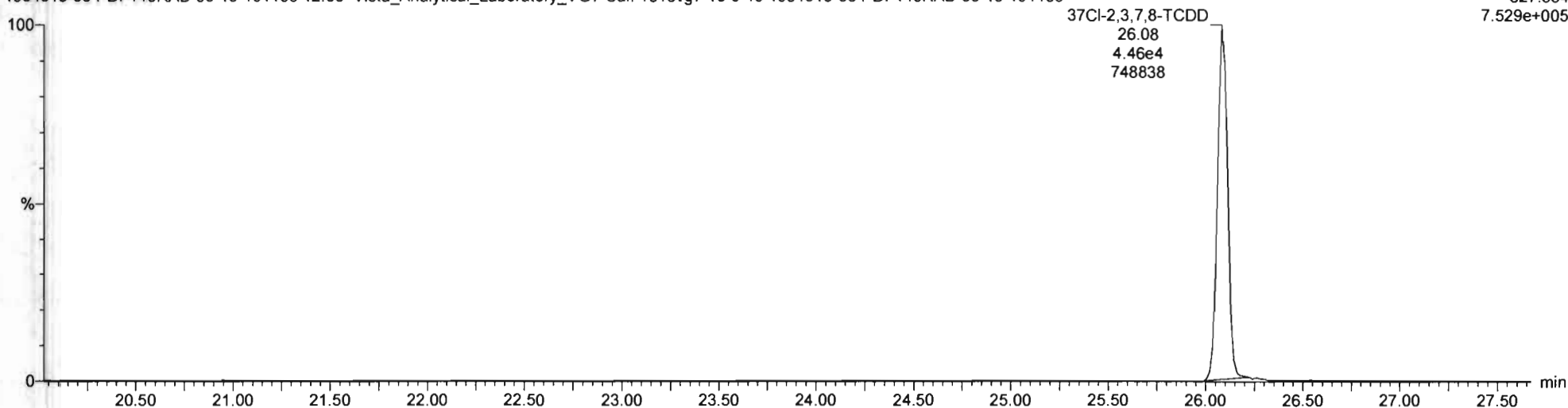
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Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

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

191204D2_5
1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-03 PDI-140RAB-00-10-191108

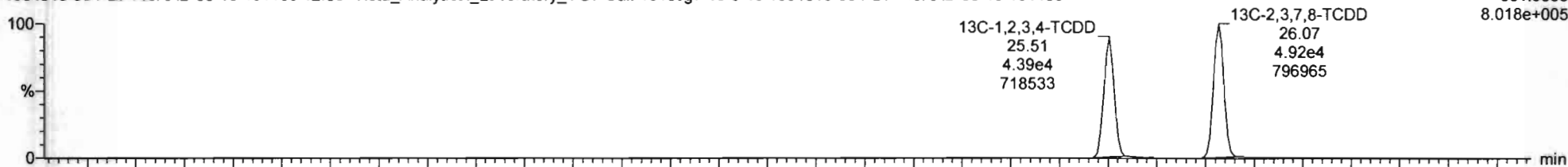
F1:SIR of 15 channels,EI+
327.884
7.529e+005



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

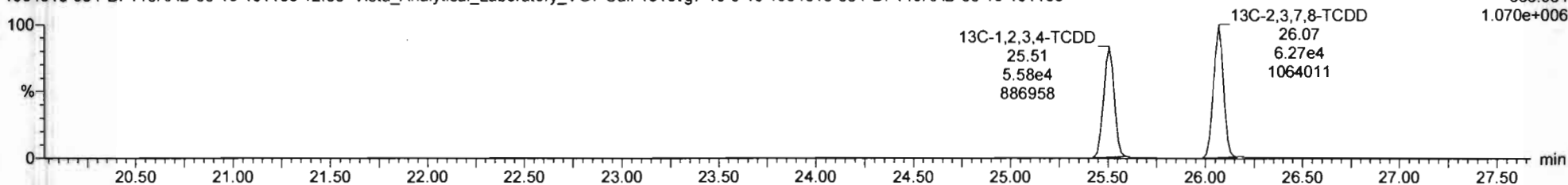
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1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-03 PDI-140RAB-00-10-191108

F1:SIR of 15 channels,EI+
331.9368
8.018e+005



191204D2_5
1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-03 PDI-140RAB-00-10-191108

F1:SIR of 15 channels,EI+
333.934
1.070e+006



Vista Analytical Laboratory

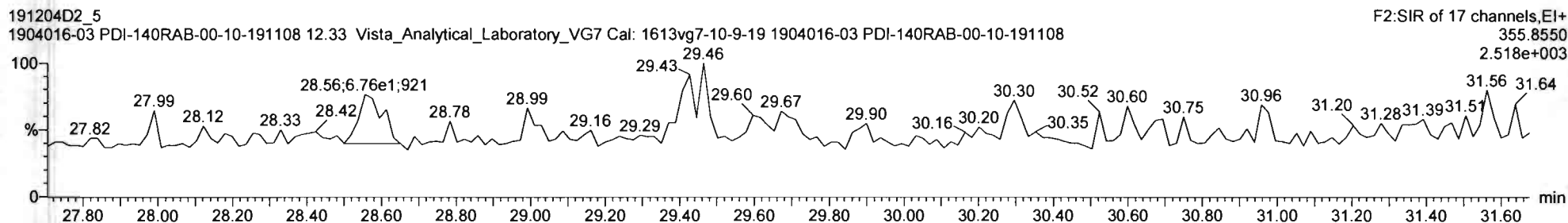
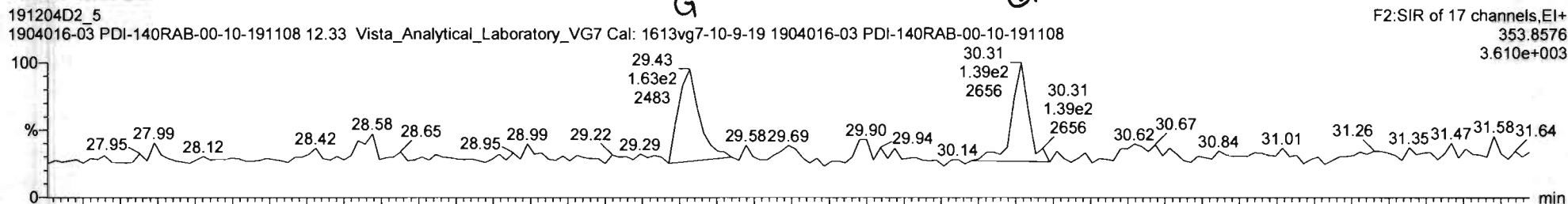
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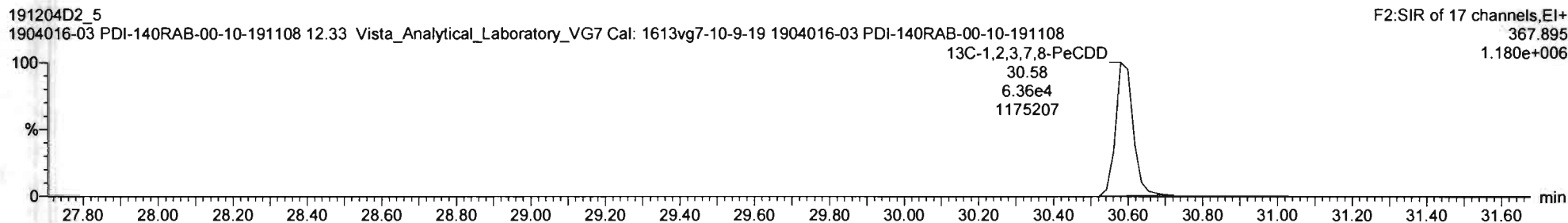
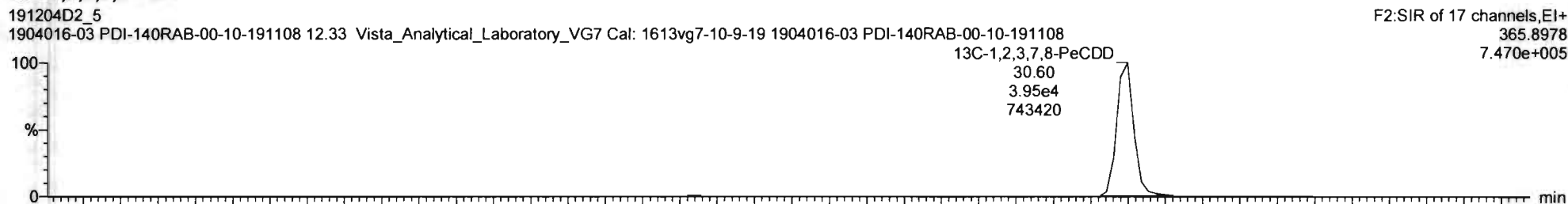
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Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Penta-Dioxins



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



Vista Analytical Laboratory

Dataset: Untitled

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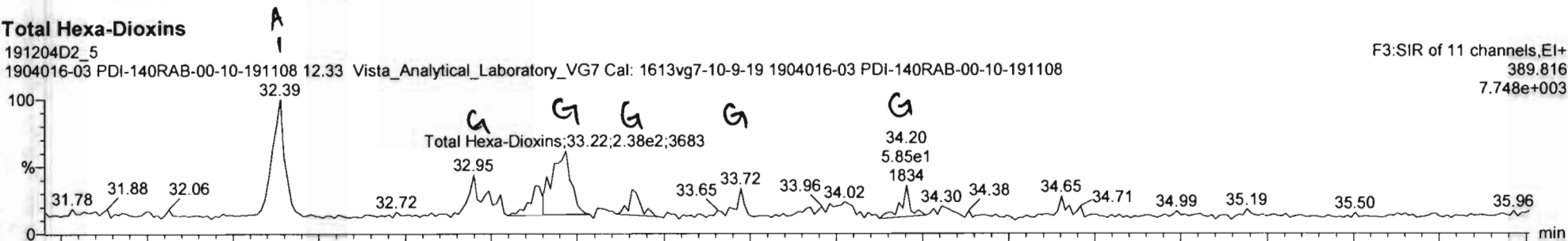
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Total Hexa-Dioxins

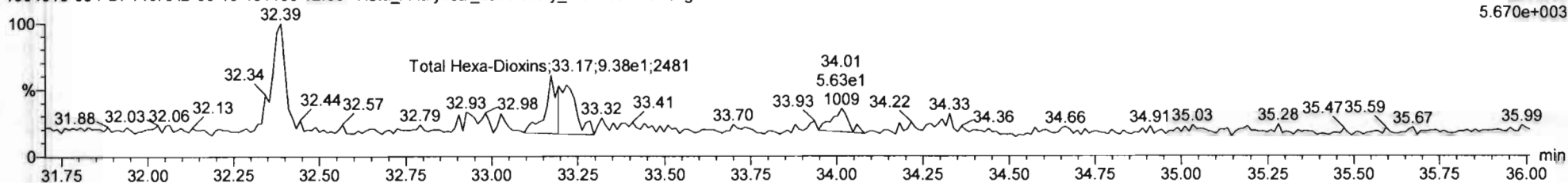
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F3:SIR of 11 channels,EI+ 389.816 7.748e+003



191204D2_5 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-03 PDI-140RAB-00-10-191108

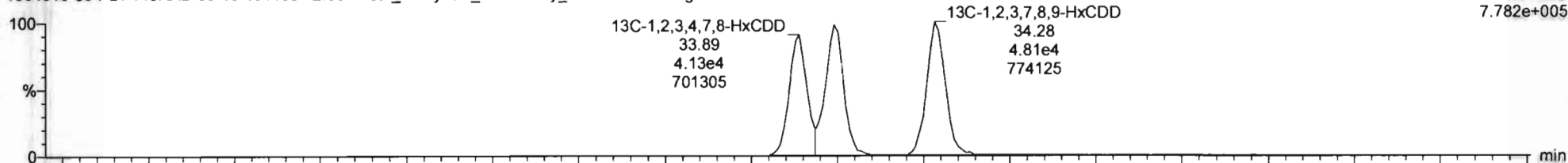
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13C-1,2,3,4,7,8-HxCDD

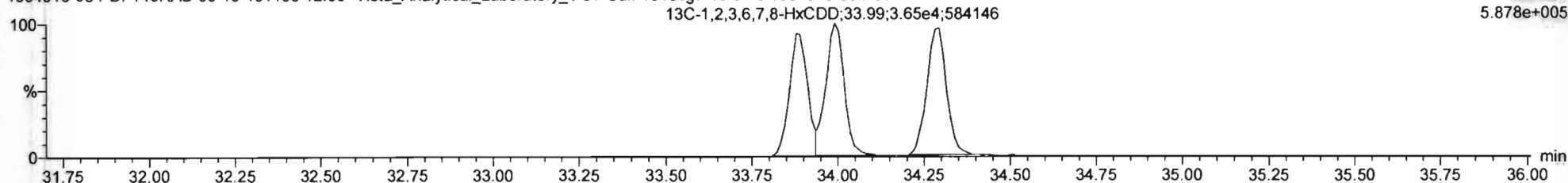
191204D2_5 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-03 PDI-140RAB-00-10-191108

F3:SIR of 11 channels,EI+ 401.856 7.782e+005



191204D2_5 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-03 PDI-140RAB-00-10-191108

F3:SIR of 11 channels,EI+ 403.853 5.878e+005

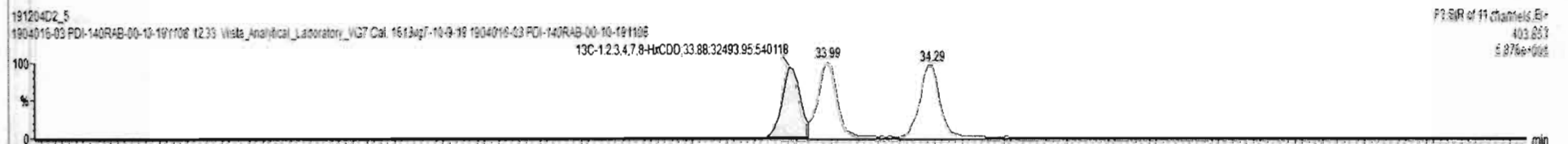
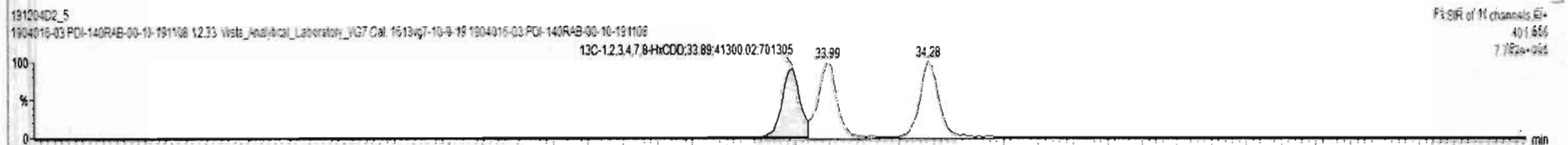
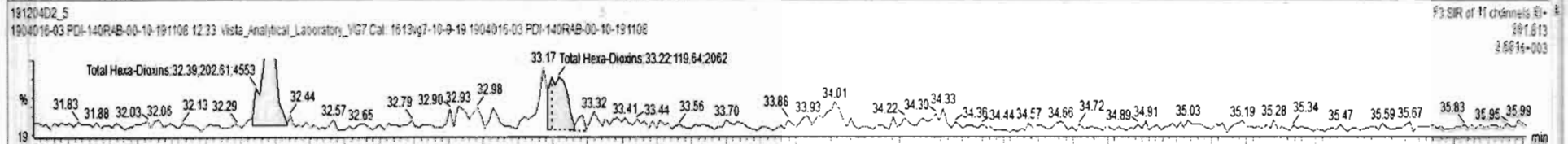
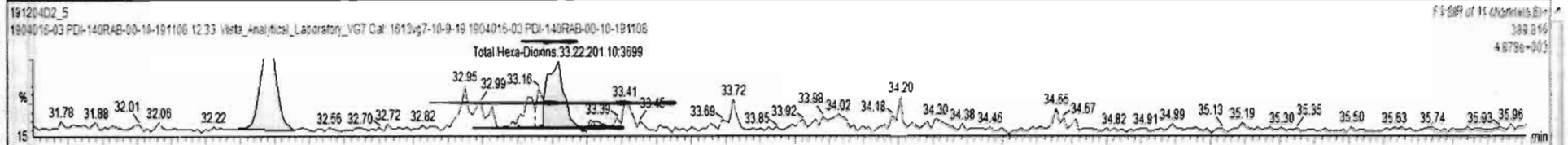




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#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
30	13C-2,3,4,6,7,8-HxCDF	1.00e5	1.07e5	38	0.52	NO	0.953	10.088	33.72	33.72	1.009	1.009	NO	194.6	98.2	1.11	
31	13C-1,2,3,7,8,9-HxCDF	8.74e4	1.07e5	38	0.51	NO	0.828	10.088	34.70	34.66	1.036	1.039	NO	155.0	98.4	1.28	
32	13C-1,2,3,4,6,7,8-HpCDF	7.16e4	1.07e5	38	0.43	NO	0.757	10.088	36.51	36.50	1.092	1.093	NO	174.7	88.1	1.10	
33	13C-1,2,3,4,7,8,9-HpCDF	6.07e4	1.07e5	38	0.43	NO	0.581	10.088	38.19	38.30	1.146	1.143	NO	193.0	97.3	1.44	
34	13C-OCDF	1.72e5	1.07e5	38	0.85	NO	0.689	10.088	41.20	41.23	1.234	1.233	NO	460.5	116	0.643	
35	37Cl-2,3,7,8-TCDD	4.46e4	9.97e4	36			1.198	10.088	26.07	26.08	1.023	1.022	NO	74.03	93.4	0.203	
36	13C-1,2,3,4-TCDD	9.97e4	9.97e4	36	0.79	NO	1.000	10.088	25.50	25.51	1.000	1.000	NO	198.3	100	0.531	
37	13C-1,2,3,4-TCDF	1.67e5	1.67e5	37	0.82	NO	1.000	10.088	24.06	24.06	1.000	1.000	NO	158.3	100	0.534	
38	13C-1,2,3,4,6,9-HxCDF	1.07e5	1.07e5	38	0.52	NO	1.000	10.088	33.42	33.41	1.000	1.000	NO	198.3	100	1.96	
39	Total Tetra-Dioxins						0.901	10.088	25.50			0.900	NO			0.113	
40	Total Penta-Dioxins						0.872	10.088	30.90			0.900	NO			0.118	
41	Total Hexa-Dioxins						0.976	10.088	33.90			0.900	NO	0.8806	0.355	1.908	
42	Total Hepta-Dioxins						0.989	10.088	37.75			0.900	NO	18.57	0.491	16.57	
43	Total Tetra-Furans						0.943	10.088	24.00			0.900	NO	0.6066	0.194	0.4143	
44	1st Func. Penta-Furans						0.940	10.088	27.63			0.900	NO			0.6475	

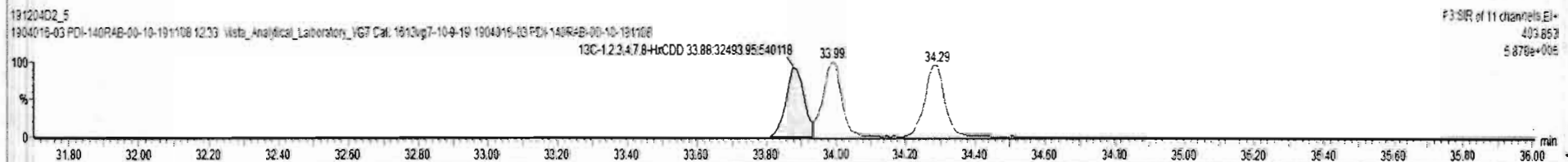
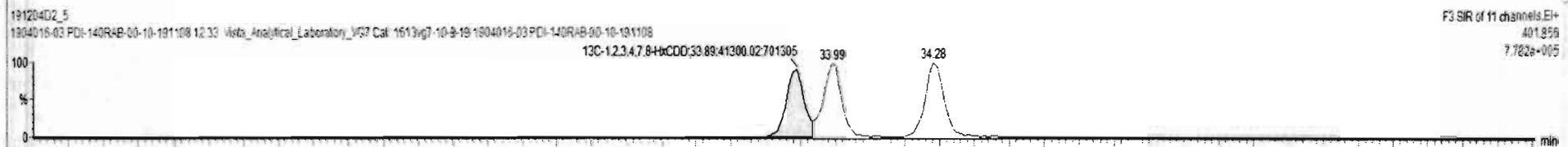
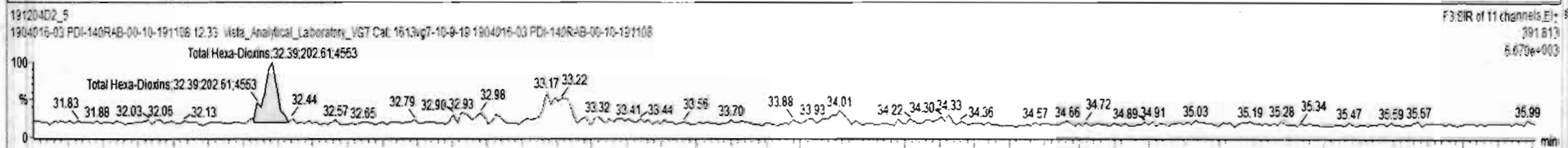
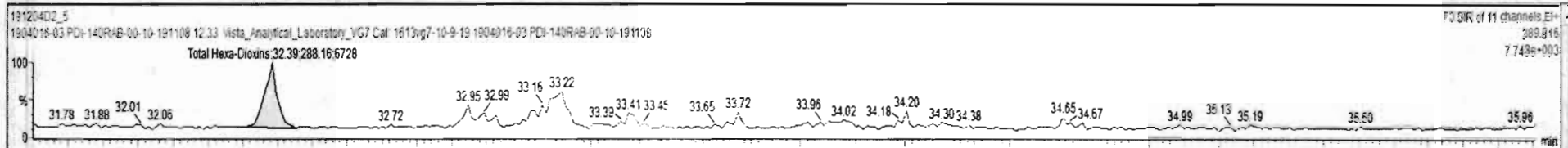
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.90	32.39	2.882e2	2.026e2	1.240	1.42	NO	1.2344	0.00000
2	41 Total Hexa-Dioxins	33.90	33.22	2.011e2	1.196e2	1.240	1.68	YES	0.67405	0.00000



191204D2_5 - 1904016-03 PDI-140RAB-00-10-191108 - 1904016-03 PDI-140RAB-00-10-191108 12 33 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wfvol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
30	13C-2,3,4,6,7,8-HxCDF	1.00e5	1.07e5	38	0.52	NO	0.953	10.088	33.72	33.72	1.009	1.009	NO	194.6	98.2	1.11	
31	13C-1,2,3,7,8,9-HxCDF	8.74e4	1.07e5	38	0.51	NO	0.828	10.088	34.70	34.66	1.038	1.039	NO	195.0	98.4	1.28	
32	13C-1,2,3,4,6,7,8-HpCDF	7.16e4	1.07e5	38	0.43	NO	0.757	10.088	36.51	36.50	1.092	1.093	NO	174.7	66.1	1.10	
33	13C-1,2,3,4,7,8,9-HpCDF	6.07e4	1.07e5	38	0.43	NO	0.581	10.088	38.19	38.30	1.146	1.143	NO	193.0	97.3	1.44	
34	13C-OCDF	1.72e5	1.07e5	38	0.89	NO	0.689	10.088	41.29	41.23	1.234	1.233	NO	480.5	116	0.543	
35	37Cl-2,3,7,8-TCDD	4.46e4	9.97e4	36			1.198	10.088	26.07	26.08	1.023	1.022	NO	74.03	93.4	0.203	
36	13C-1,2,3,4-TCDD	9.97e4	9.97e4	36	0.79	NO	1.000	10.088	25.59	25.51	1.060	1.060	NO	198.3	100	0.531	
37	13C-1,2,3,4-TCDF	1.67e5	1.67e5	37	0.82	NO	1.000	10.088	24.06	24.06	1.000	1.000	NO	198.3	100	0.534	
38	13C-1,2,3,4,6,9-HxCDF	1.07e5	1.07e5	38	0.52	NO	1.000	10.088	33.42	33.41	1.000	1.000	NO	198.3	100	1.06	
39	Total Tetra-Dioxins	1.12e5					0.901	10.088	25.50			0.000	NO			0.113	
40	Total Penta-Dioxins	1.03e5					0.872	10.088	30.00			0.000	NO			0.118	
41	Total Hexa-Dioxins	0.00e0					0.976	10.088	33.90			0.000	NO	0.0000	0.355	1.234	
42	Total Hepta-Dioxins	6.90e4					0.989	10.088	37.75			0.000	NO	18.57	0.401	18.57	
43	Total Tetra-Furans	1.84e5					0.943	10.088	24.00			0.000	NO	0.0000	0.104	0.4142	
44	1st Func. Penta-Furans	0.00e0					0.940	10.088	27.83			0.000	NO			0.0475	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.90	32.39	2.862e2	2.026e2	1.240	1.42	NO	1.2344	0.00000



Custom Reporting: Select reports to generate.

191204D2_5

NUM

Vista Analytical Laboratory

Dataset: Untitled

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

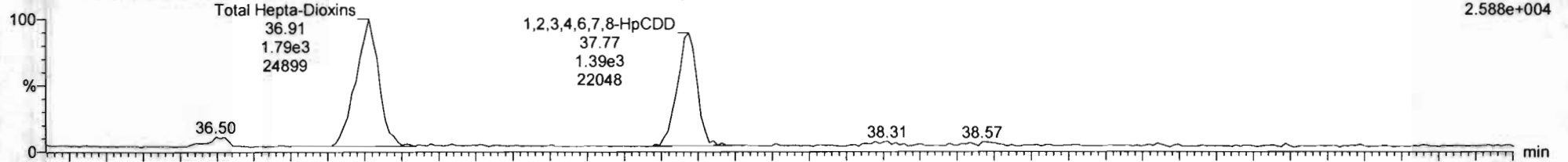
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Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108,
Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hepta-Dioxins

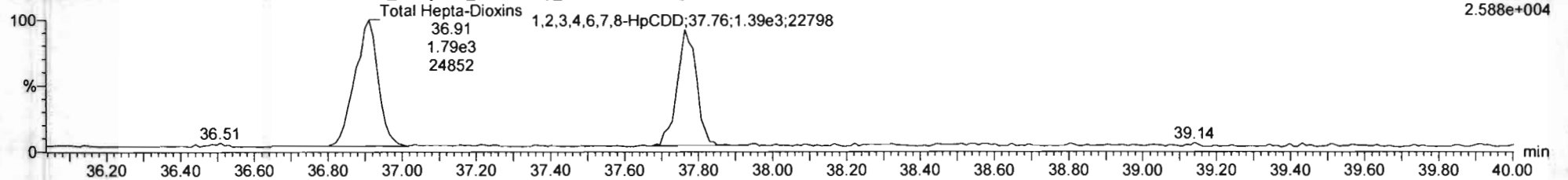
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F4:SIR of 11 channels,EI+
423.777
2.588e+004



191204D2_5
1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-03 PDI-140RAB-00-10-191108

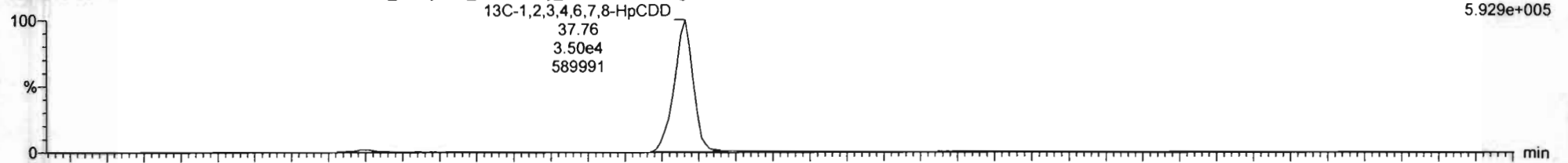
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425.774
2.588e+004



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

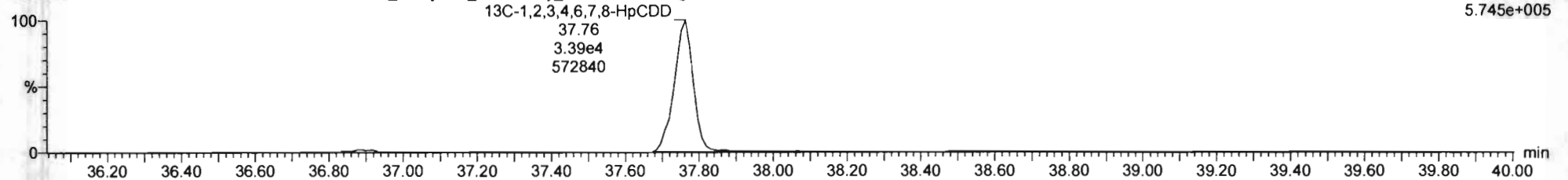
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F4:SIR of 11 channels,EI+
435.817
5.929e+005



191204D2_5
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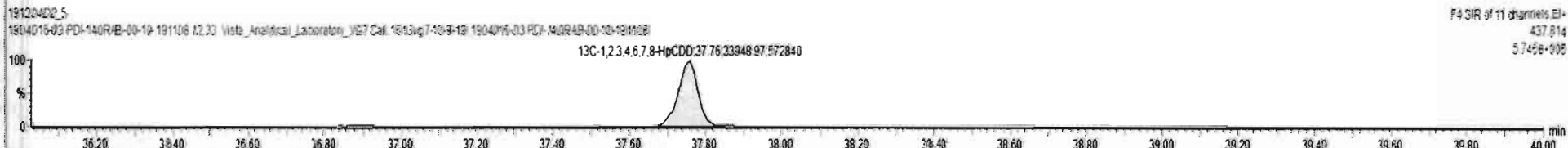
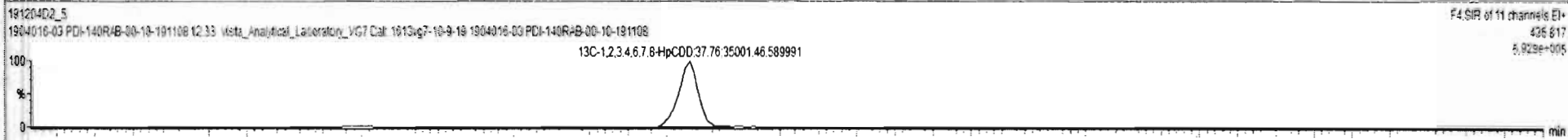
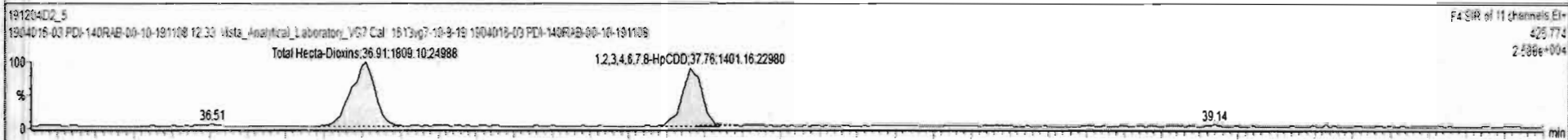
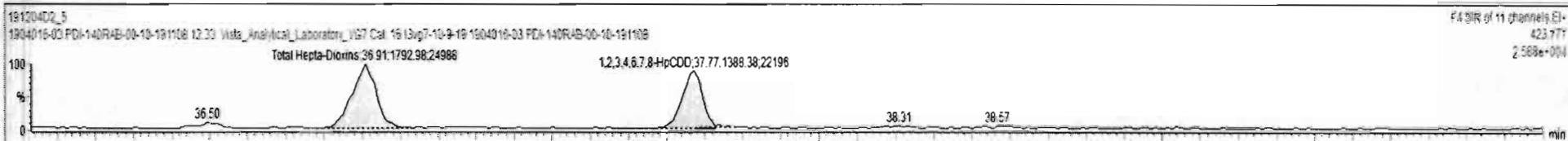
F4:SIR of 11 channels,EI+
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5.745e+005



191204D2_5 - 1904016-03 PDI-140RAB-00-10-191108 - 1904016-03 PDI-140RAB-00-10-191108 12.33 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	1.00e5	1.07e5	38	0.52	NO	0.953	10.088	33.72	33.72	1.009	1.009	NO	194.6	98.2	1.11	
31	13C-1,2,3,7,8,9-HxCDF	8.74e4	1.07e5	38	0.51	NO	0.828	10.088	34.70	34.66	1.038	1.039	NO	195.0	98.4	1.28	
32	13C-1,2,3,4,6,7,8-HpCDF	7.16e4	1.07e5	38	0.43	NO	0.757	10.088	36.51	36.50	1.092	1.093	NO	174.7	88.1	1.10	
33	13C-1,2,3,4,7,8,9-HpCDF	6.07e4	1.07e5	38	0.43	NO	0.581	10.088	38.19	38.30	1.146	1.143	NO	192.0	97.3	1.44	
34	13C-OCDF	1.72e5	1.07e5	38	0.86	NO	0.689	10.088	41.20	41.23	1.234	1.233	NO	460.5	116	0.643	
35	37Cl-2,3,7,8-TCDD	4.46e4	9.97e4	36			1.198	10.088	26.07	26.08	1.023	1.022	NO	74.03	93.4	0.293	
36	13C-1,2,3,4-TCDD	9.97e4	9.97e4	36	0.79	NO	1.000	10.088	25.50	25.51	1.000	1.000	NO	198.3	100	0.531	
37	13C-1,2,3,4-TCDF	1.67e5	1.67e5	37	0.82	NO	1.000	10.088	24.06	24.06	1.000	1.000	NO	198.3	100	0.534	
38	13C-1,2,3,4,6,9-HxCDF	1.07e5	1.07e5	38	0.52	NO	1.000	10.088	33.42	33.41	1.000	1.000	NO	198.3	100	1.06	
39	Total Tetra-Dioxins	1.12e5					0.901	10.088	25.50			0.000	NO			0.113	
40	Total Penta-Dioxins	1.03e5					0.872	10.088	30.00			0.000	NO			0.118	
41	Total Hexa-Dioxins	0.36e0					0.976	10.088	33.90			0.000	NO	0.0000		0.355	1.234
42	Total Hepta-Dioxins	6.90e4					0.988	10.088	37.75			0.000	NO	18.66		0.401	18.66
43	Total Tetra-Furans	1.64e5					0.943	10.088	24.90			0.000	NO	0.0000		0.194	0.4143
44	1st Func. Penta-Furans	0.06e0					0.940	10.088	27.63			0.000	NO			0.0475	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	42 Total Hepta-Dioxins	37.75	36.91	1.793e3	1.809e3	1.040	0.96	NO	10.475	10.475
2	6 1,2,3,4,6,7,8-HpCDD	37.77	37.77	1.388e3	1.401e3	1.040	0.99	NO	8.1894	8.1894



Vista Analytical Laboratory

Dataset: Untitled

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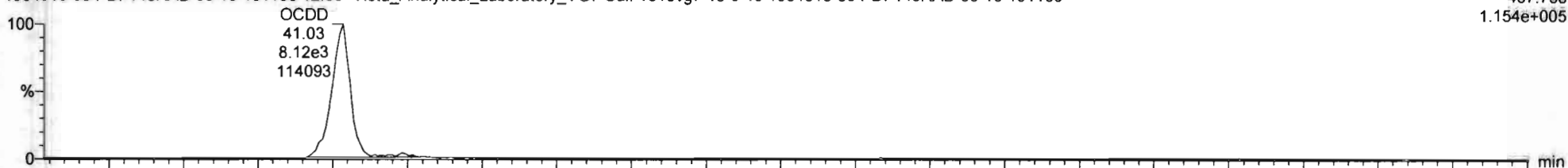
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Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

OCDD

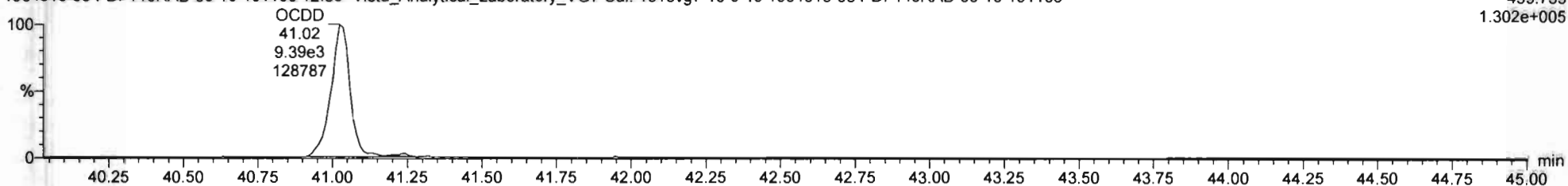
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F5:SIR of 11 channels,EI+
457.738
1.154e+005



191204D2_5
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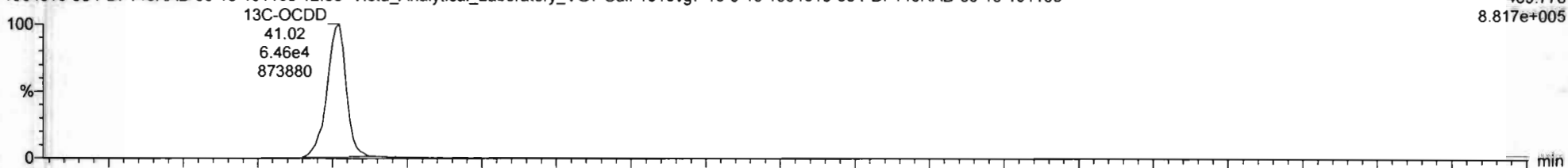
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459.735
1.302e+005



13C-OCDD

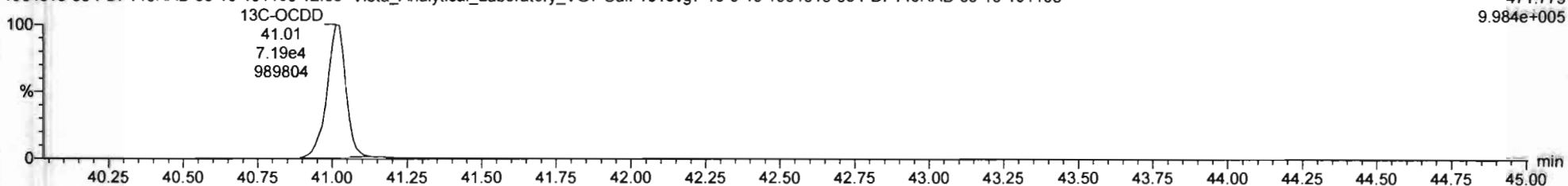
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F5:SIR of 11 channels,EI+
469.778
8.817e+005



191204D2_5
1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-03 PDI-140RAB-00-10-191108

F5:SIR of 11 channels,EI+
471.775
9.984e+005



Vista Analytical Laboratory

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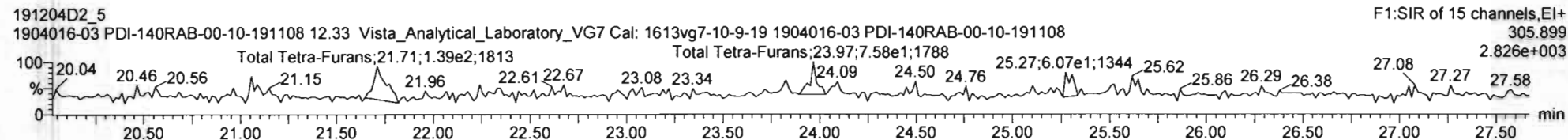
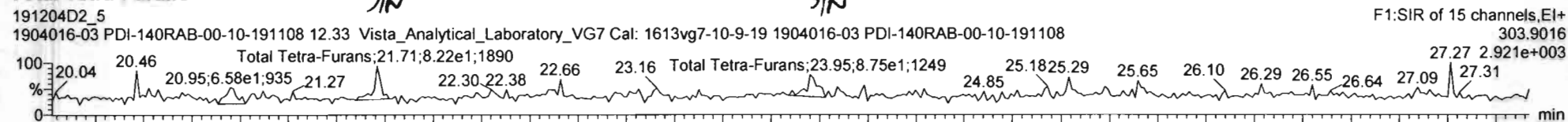
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Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108, Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

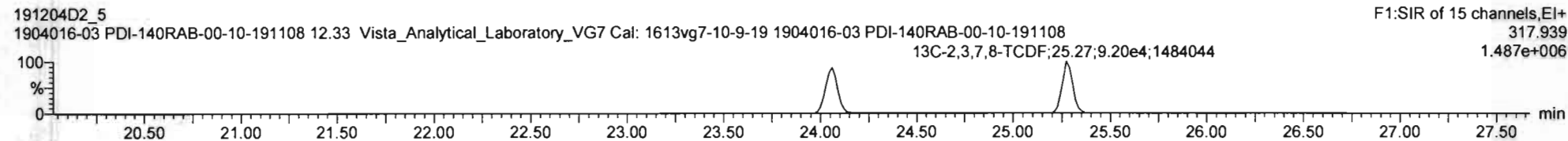
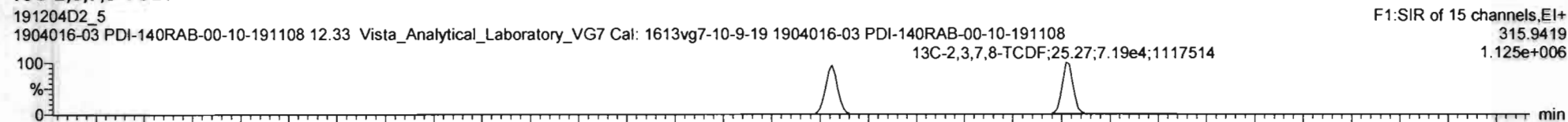
Total Tetra-Furans

SIN

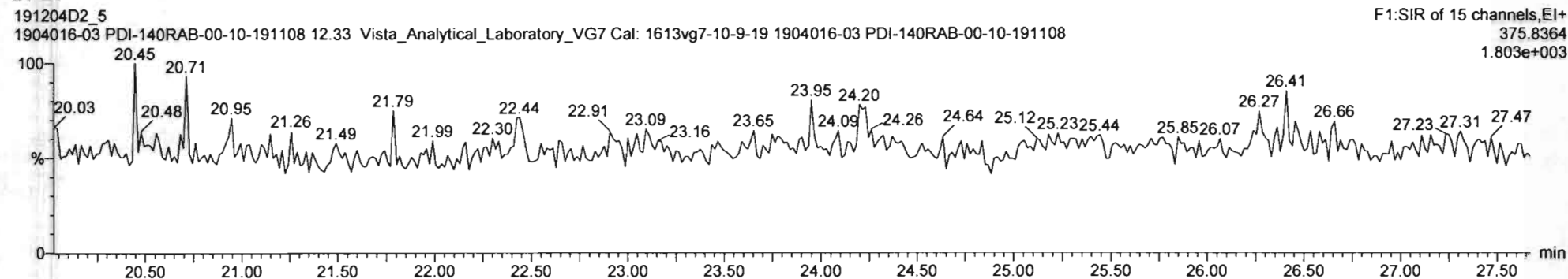
SIN



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



DPE1

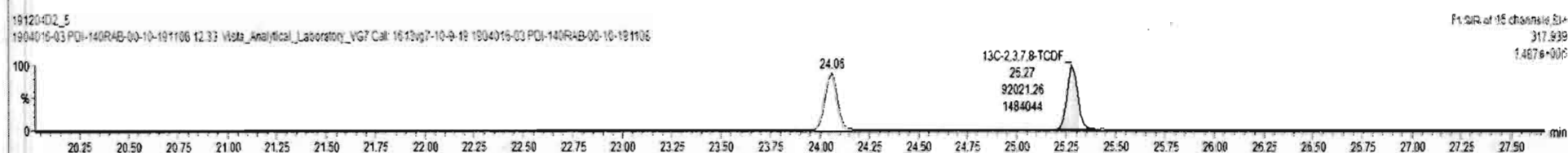
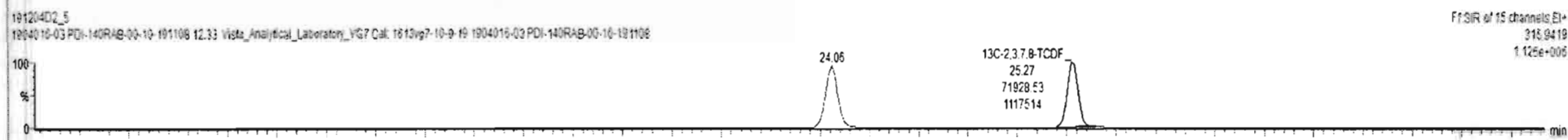
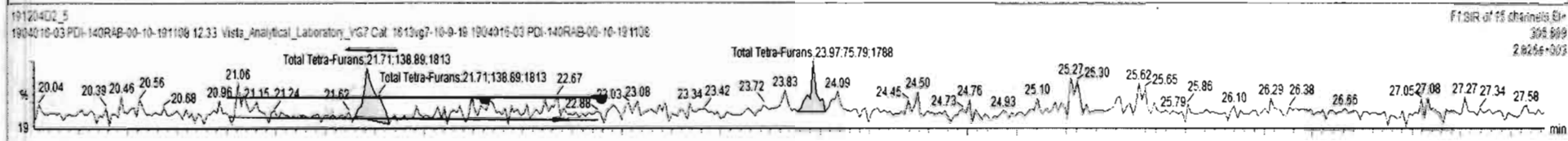
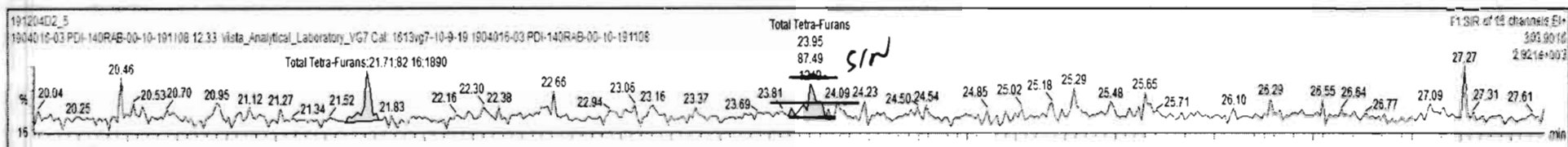


#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/wt	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
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32	13C-1,2,3,4,6,7,8-HpCDF	7.16e4	1.07e5	38	0.43	NO	0.757	10.088	36.51	36.50	1.092	1.093	NO	174.7	88.1	1.10	
33	13C-1,2,3,4,7,8,9-HpCDF	6.07e4	1.07e5	38	0.43	NO	0.581	10.088	38.19	38.30	1.148	1.143	NO	193.0	97.3	1.44	
34	13C-OCDF	1.72e5	1.07e5	38	0.69	NO	0.689	10.088	41.20	41.23	1.234	1.233	NO	460.5	118	0.643	
35	37Cl-2,3,7,8-TCDD	4.46e4	9.97e4	36			1.198	10.088	26.07	26.08	1.023	1.022	NO	74.03	92.4	0.203	
36	13C-1,2,3,4-TCDD	9.97e4	9.97e4	36	0.79	NO	1.000	10.088	25.50	25.51	1.000	1.000	NO	198.3	100	0.531	
37	13C-1,2,3,4-TCDF	1.67e5	1.67e5	37	0.82	NO	1.000	10.088	24.06	24.06	1.000	1.000	NO	198.3	100	0.534	
38	13C-1,2,3,4,6,9-HxCDF	1.07e5	1.07e5	38	0.52	NO	1.000	10.088	33.42	33.41	1.000	1.000	NO	198.3	100	1.06	
39	Total Tetra-Dioxins	1.12e5					0.901	10.088	25.50			0.000	NO			0.113	
40	Total Penta-Dioxins	1.03e5					0.872	10.088	30.00			0.000	NO			0.118	
41	Total Hexa-Dioxins	0.00e0					0.976	10.968	33.90			0.000	NO	0.0000		0.355	1.234
42	Total Hepta-Dioxins	8.50e4					0.969	10.088	37.75			0.000	NO	18.66		0.401	18.66
43	Total Tetra-Furans	1.64e5					0.943	10.088	24.00			0.000	NO	0.0000		0.104	0.4143
44	1st Func. Penta-Furans	0.00e0					0.940	10.088	27.63			0.000	NO			0.0475	
45	Total Penta-Furans	0.00e0					0.940	10.088	30.00			0.000	NO	0.2039		0.167	0.5583
46	Total Hexa-Furans	0.00e0					1.078	10.088	33.00			0.000	NO	0.5263		0.155	0.9241

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
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1	43 Total Tetra-Furans	24.00	21.71	6.215e1	1.389e2	0.770	0.59	YES	0.24224	0.00090
2	43 Total Tetra-Furans	24.00	23.95	8.749e1	7.579e1	0.770	1.15	YES	0.17206	0.00090



Vista Analytical Laboratory

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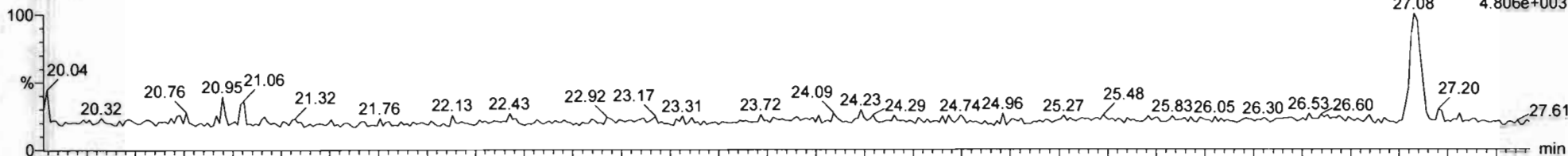
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Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108,
Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

1st Func. Penta-Furans

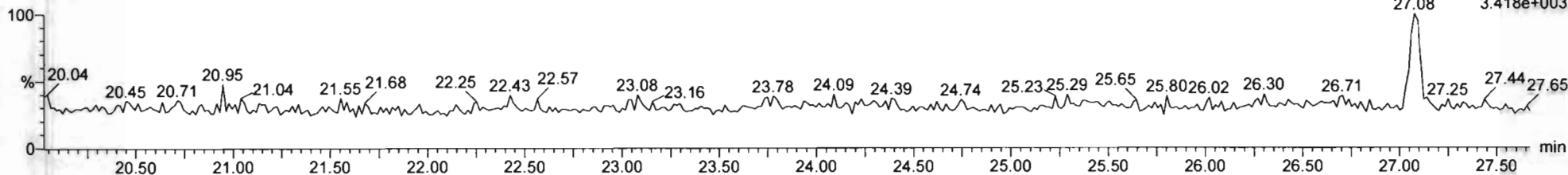
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F1:SIR of 15 channels,EI+
339.860
4.806e+003



191204D2_5
1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-03 PDI-140RAB-00-10-191108

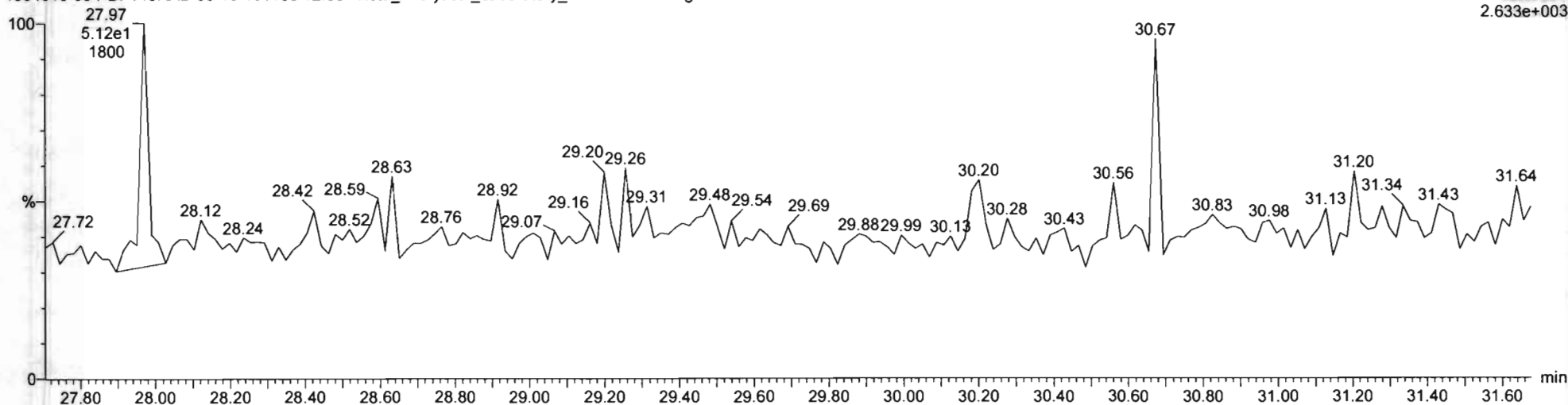
F1:SIR of 15 channels,EI+
341.857
3.418e+003



DPE6

191204D2_5
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F2:SIR of 17 channels,EI+
409.7974
2.633e+003

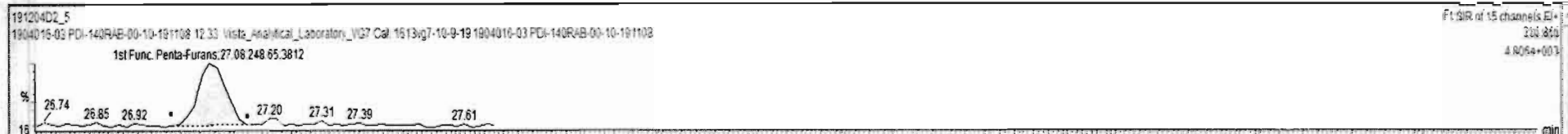




191204D2_5 - 1904016-03 PDI-140RAB-00-10-191108 - 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

#	Name	Resp	IS Resp	ES	RA	n/y	RRF	w/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
38	36 13C-1,2,3,4,6,8-HxCDF	1.07e5	1.07e5	36	0.52	NO	1.000	10.088	33.42	33.41	1.000	1.000	NO	198.3	100	1.06	
39	Total Tetra-Dioxins		1.12e5				0.901	10.088	25.50			0.000	NO			0.113	
40	Total Penta-Dioxins		1.03e5				0.872	10.088	30.00			0.000	NO			0.118	
41	Total Hexa-Dioxins		0.06e0				0.976	10.088	33.90			0.000	NO	0.0000		0.205	0.7321
42	Total Hepta-Dioxins		6.90e4				0.989	10.088	37.75			0.000	NO	16.66		0.401	16.66
43	Total Tetra-Furans		1.64e5				0.943	10.088	24.00			0.000	NO			0.104	
44	1st Func. Penta-Furans		0.00e0				0.940	10.088	27.63			0.000	NO	0.5006		0.0475	0.5006
45	Total Penta-Furans		0.00e0				0.940	10.088	30.00			0.000	NO	0.2038		0.167	0.5583
46	Total Hexa-Furans		0.00e0				1.076	10.088	33.00			0.000	NO	0.5263		0.155	0.9241
47	Total Hepta-Furans		0.00e0				1.135	10.088	37.75			0.000	NO	2.068		0.270	2.068
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	44 1st Func. Penta-Furans	27.63	27.08	2.467e2	1.515e2	1.550	1.64	NO	0.50079	0.50079



Vista Analytical Laboratory

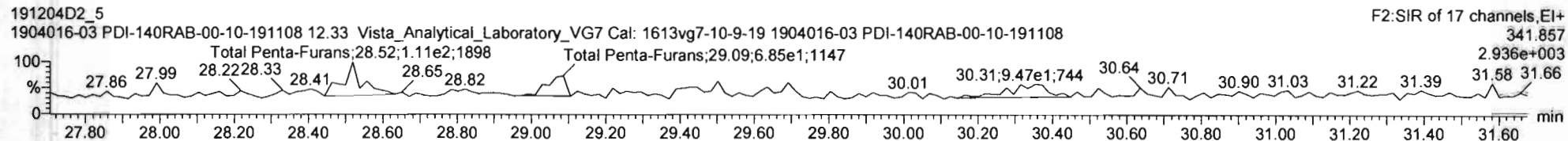
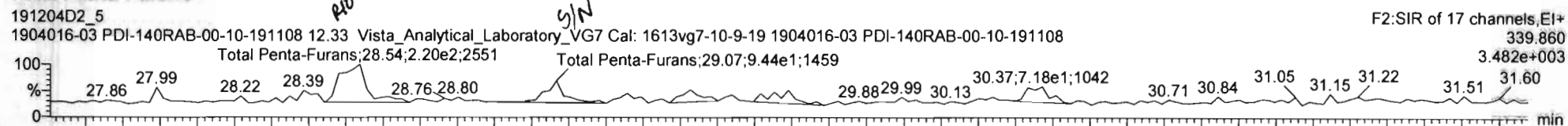
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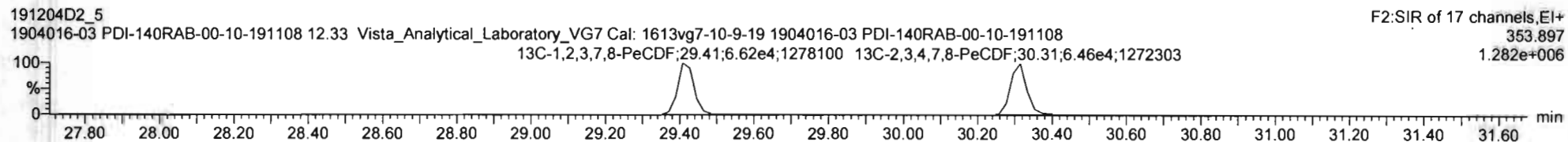
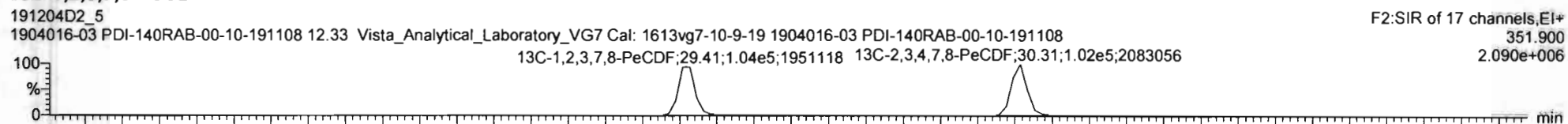
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Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108, Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

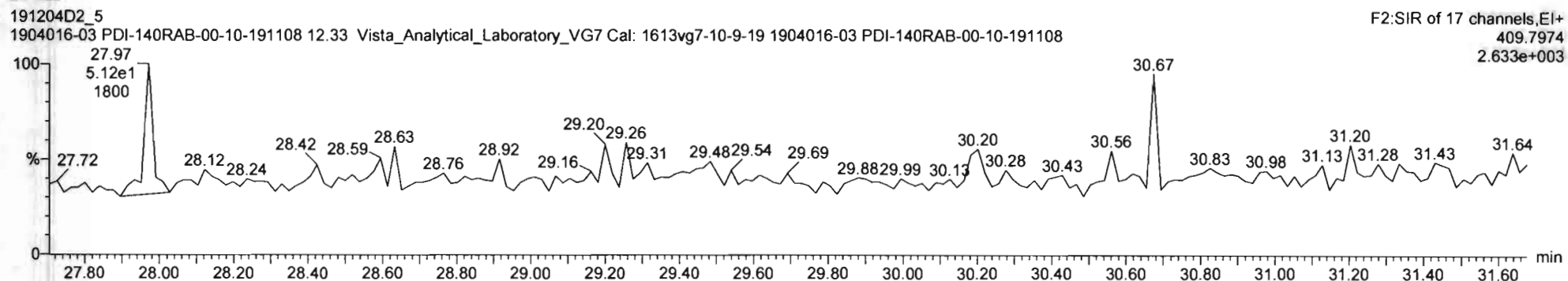
Total Penta-Furans



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

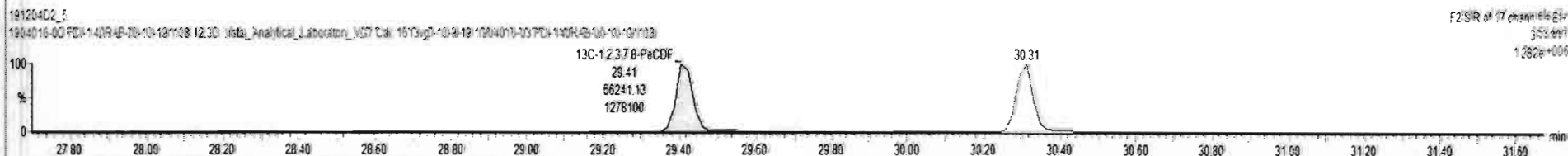
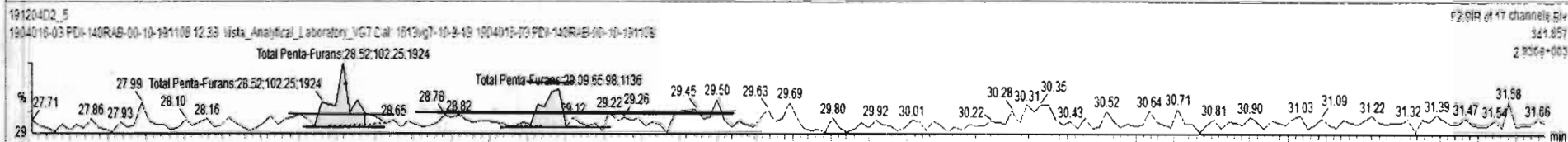
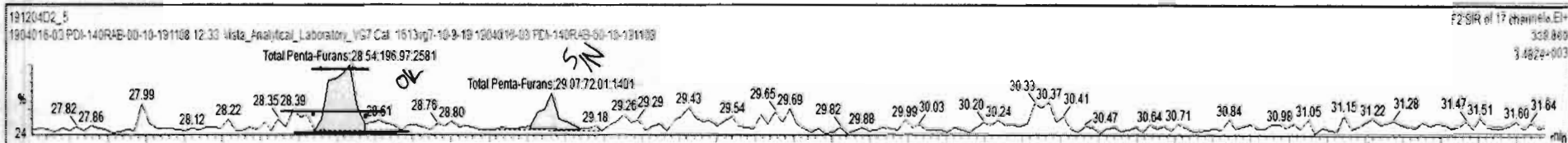


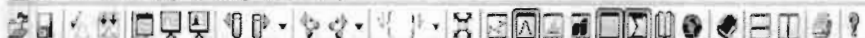
DPE2



#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
38	38 13C-1,2,3,4,6,8-HxCDF	1.07e5	1.07e5	38	0.52	NO	1.000	10.088	33.42	33.41	1.000	1.000	NO	198.3	100		1.06
39	39 Total Tetra-Dioxins		1.12e5				0.901	10.088	25.50			0.000	NO				0.113
40	40 Total Penta-Dioxins		1.03e5				0.872	10.088	30.00			0.000	NO				0.118
41	41 Total Hexa-Dioxins		0.00e0				0.976	10.088	33.90			0.000	NO	0.0000	0.205		0.7321
42	42 Total Hepta-Dioxins		6.90e4				0.989	10.088	37.75			0.000	NO	18.66	0.401		18.66
43	43 Total Tetra-Furans		1.64e5				0.943	10.088	24.00			0.000	NO				0.104
44	44 1st Func. Penta-Furans		0.00e0				0.940	10.088	27.63			0.000	NO	0.5008	0.0475		0.5008
45	45 Total Penta-Furans		0.00e0				0.940	10.088	30.00			0.000	NO	0.0000	0.0782		0.4746
46	46 Total Hexa-Furans		0.00e0				1.078	10.088	33.00			0.000	NO	0.5263	0.155		0.9241
47	47 Total Hepta-Furans		0.00e0				1.135	10.088	37.75			0.000	NO	2.088	0.270		2.088
48	48 PFK1																
49	49 PFK2																
50	50 PFK3																
51	51 PFK4																
52	52 PFK5																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	30.00	28.54	1.970e2	1.022e2	1.550	1.93	YES	0.32631	0.00000
2	45 Total Penta-Furans	30.00	29.07	7.261e1	6.588e1	1.550	1.99	YES	0.14627	0.00000

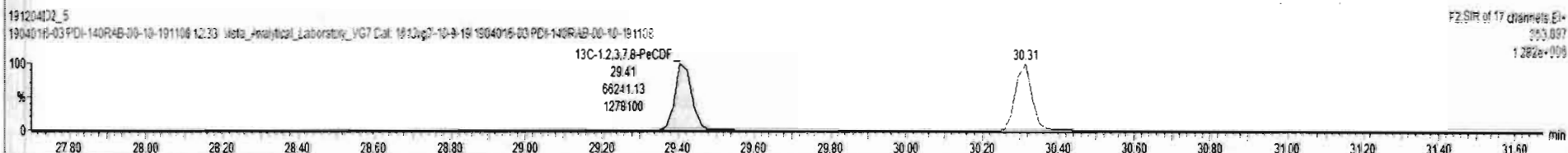
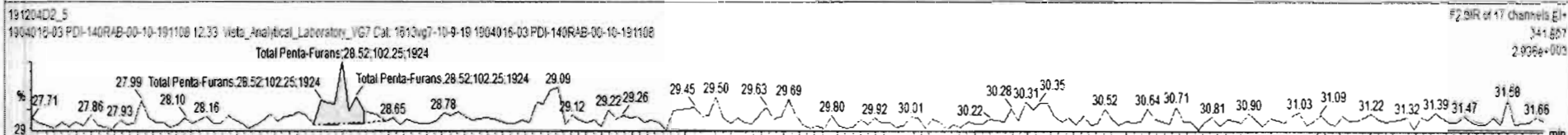
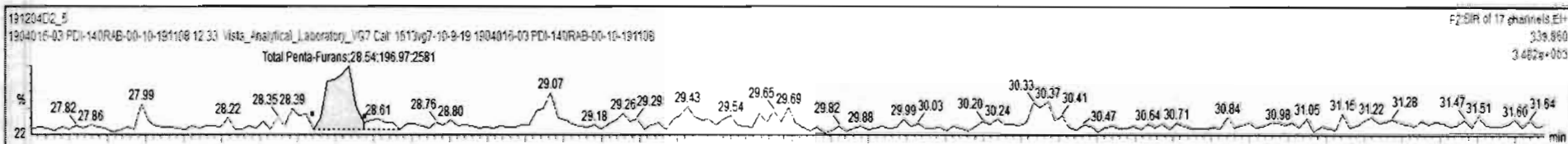




191204D2_5 - 1904016-03 PDI-140RAB-00-10-191108 - 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	1.07e5	1.07e5	38	0.52	NO	1.000	10.068	33.42	33.41	1.000	1.000	NO	198.3	100		1.06
39	Total Tetra-Dioxins		1.12e5				0.901	10.068	25.50			0.000	NO				0.113
40	Total Penta-Dioxins		1.03e5				0.872	10.068	30.00			0.000	NO				0.118
41	Total Hexa-Dioxins		0.00e0				0.976	10.068	33.90			0.000	NO	0.0000			0.7321
42	Total Hepta-Dioxins		6.90e4				0.989	10.068	37.75			0.000	NO	18.66			0.401
43	Total Tetra-Furans		1.64e5				0.943	10.068	24.00			0.000	NO				0.104
44	1st Func. Penta-Furans		0.00e0				0.940	10.068	27.63			0.000	NO	0.5008			0.5008
45	Total Penta-Furans		0.00e0				0.940	10.068	30.00			0.000	NO	0.0000			0.0782
46	Total Hexa-Furans		0.00e0				1.078	10.068	33.00			0.000	NO	0.5263			0.155
47	Total Hepta-Furans		0.00e0				1.135	10.068	37.75			0.000	NO	2.068			0.270
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	45 Total Penta-Furans	30.00	28.54	1.970e2	1.922e2	1.550	1.93	YES	0.32631	0.00000



Vista Analytical Laboratory

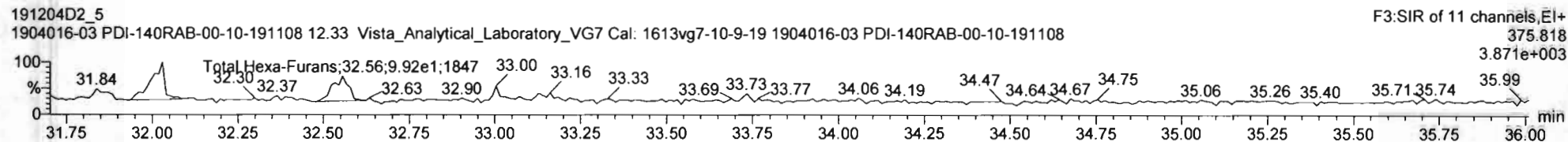
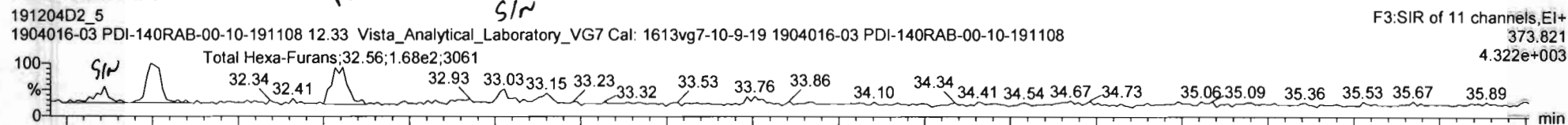
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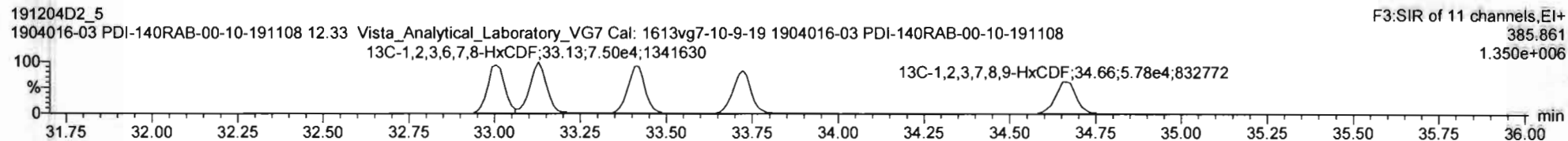
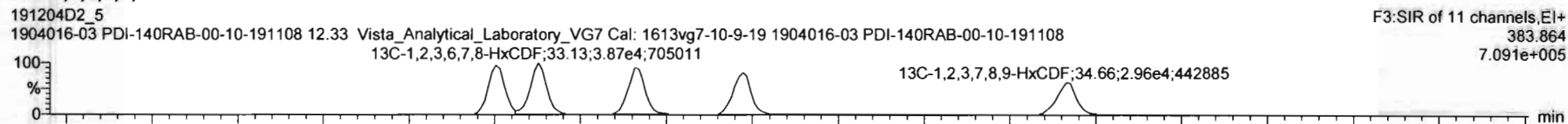
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108, Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

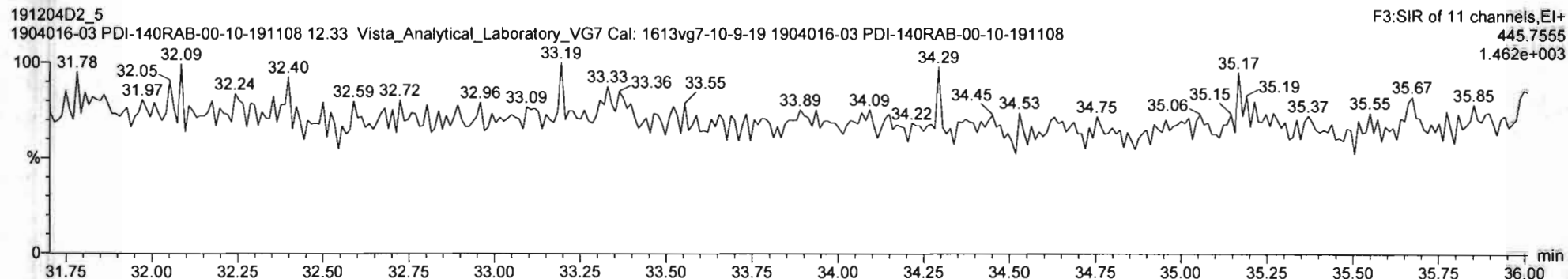
Total Hexa-Furans



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



DPE3

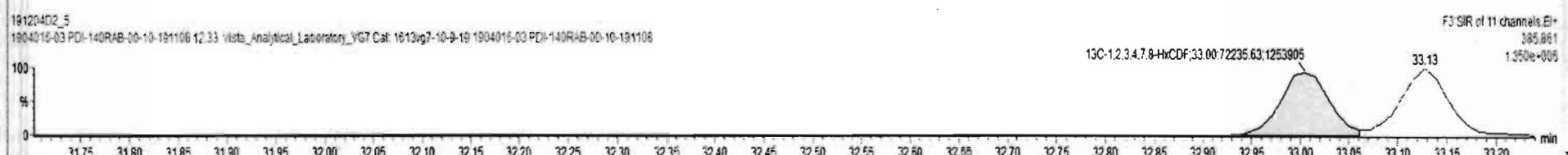
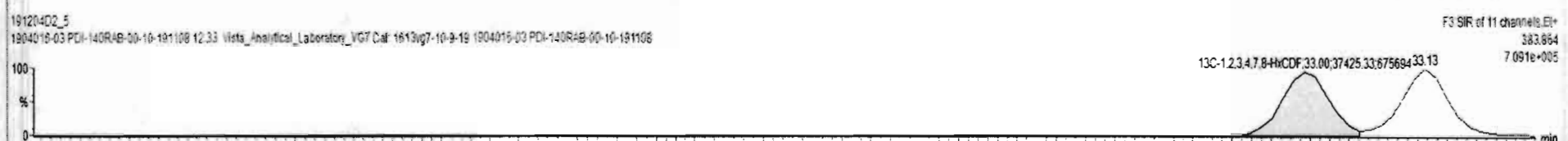
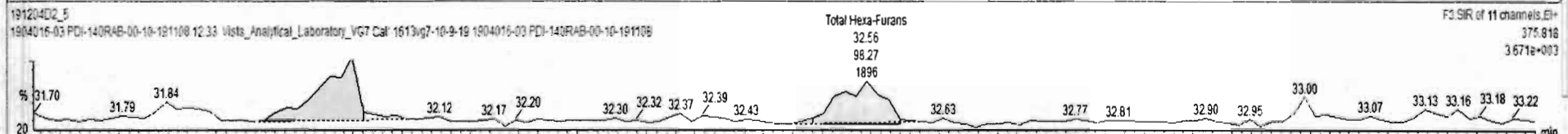
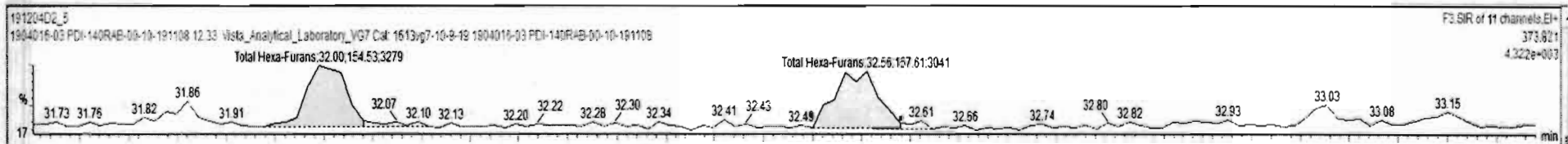




191204D2_5 - 1904016-03 PDI-140RAB-00-10-191108 - 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	1.07e5	1.07e5	38	0.52	NO	1.000	10.088	33.42	33.41	1.000	1.000	NO	198.3	100		1.06
39	Total Tetra-Dioxins		1.12e5				0.901	10.088	25.50			0.000	NO				0.113
40	Total Penta-Dioxins		1.03e5				0.872	10.088	30.00			0.000	NO				0.118
41	Total Hexa-Dioxins		0.00e0				0.976	10.088	33.90			0.000	NO	0.0000			0.265
42	Total Hepta-Dioxins		6.90e4				0.989	10.088	37.75			0.000	NO	18.66			0.401
43	Total Tetra-Furans		1.64e5				0.943	10.088	24.00			0.000	NO				0.194
44	1st Func. Penta-Furans		0.00e0				0.940	10.088	27.63			0.000	NO	0.5068			0.5008
45	Total Penta-Furans		0.00e0				0.940	10.088	30.00			0.000	NO	0.0000			0.3263
46	Total Hexa-Furans		0.00e0				1.078	10.088	33.00			0.000	NO	0.4914			0.8853
47	Total Hepta-Furans		0.00e0				1.135	10.088	37.75			0.000	NO	2.988			2.068
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	46 Total Hexa-Furans	33.00	32.00	1.545e2	1.201e2	1.240	1.29	NO	0.49140	0.49140
2	46 Total Hexa-Furans	33.00	32.56	1.576e2	9.627e1	1.240	1.60	YES	0.39393	0.06000



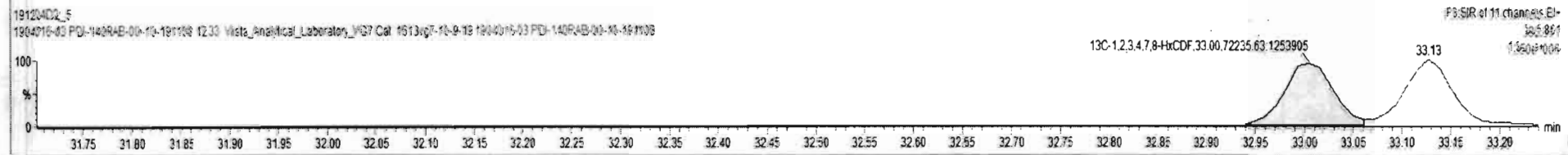
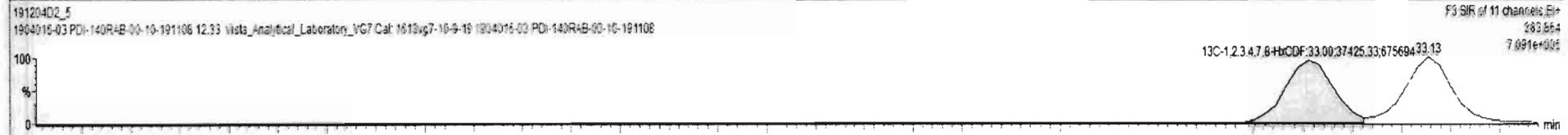
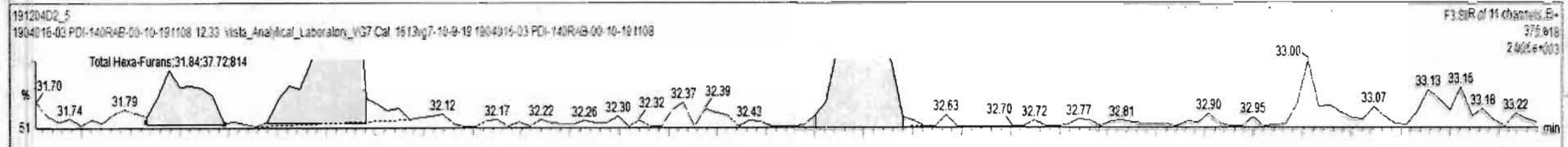
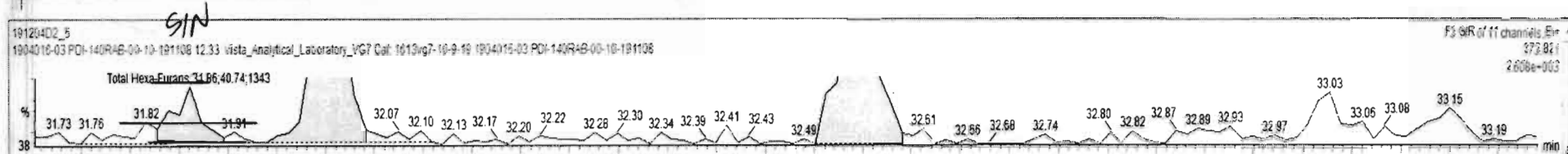
Custom Reporting: Select reports to generate

191204D2_5

NUM

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	1.07e5	1.07e5	38	0.52	NO	1.000	10.068	33.42	33.41	1.000	1.000	NO	198.3	100	1.06	
39	Total Tetra-Dioxins		1.12e5				0.901	10.068	25.50			0.000	NO			0.113	
40	Total Penta-Dioxins		1.02e5				0.872	10.068	30.00			0.000	NO			0.116	
41	Total Hexa-Dioxins		0.00e0				0.978	10.068	33.90			0.000	NO	0.0000		0.205	0.7321
42	Total Hepta-Dioxins		6.90e4				0.989	10.068	37.75			0.000	NO	18.66		0.401	18.66
43	Total Tetra-Furans		1.64e5				0.943	10.068	24.00			0.000	NO			0.104	
44	1st Func. Penta-Furans		0.00e0				0.940	10.068	27.63			0.000	NO	0.5008		0.0475	0.5008
45	Total Penta-Furans		0.00e0				0.940	10.068	30.00			0.000	NO	0.0000		0.0782	0.3263
46	Total Hexa-Furans		0.00e0				1.078	10.068	33.00			0.000	NO	0.6318		0.155	1.026
47	Total Hepta-Furans		0.00e0				1.135	10.068	37.75			0.000	NO	2.068		0.270	2.068
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	46 Total Hexa-Furans	33.00	31.86	4.074e1	3.772e1	1.240	1.06	NO	0.14041	0.14041
2	46 Total Hexa-Furans	33.00	32.00	1.545e2	1.201e2	1.240	1.29	NO	0.49148	0.49148
3	46 Total Hexa-Furans	33.00	32.56	1.578e2	9.827e1	1.240	1.60	YES	0.39393	0.00000



Vista Analytical Laboratory

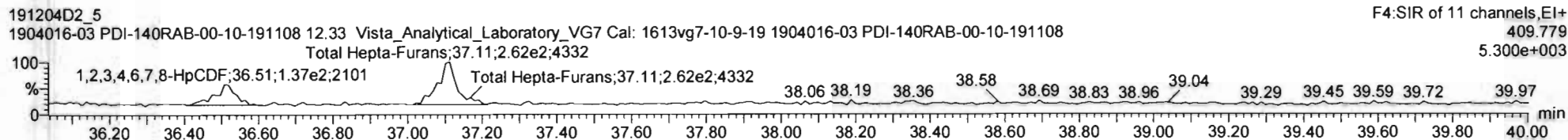
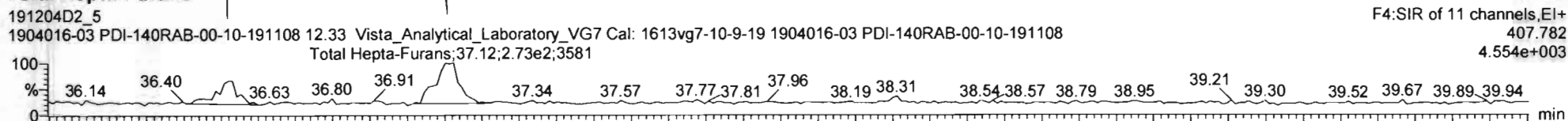
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

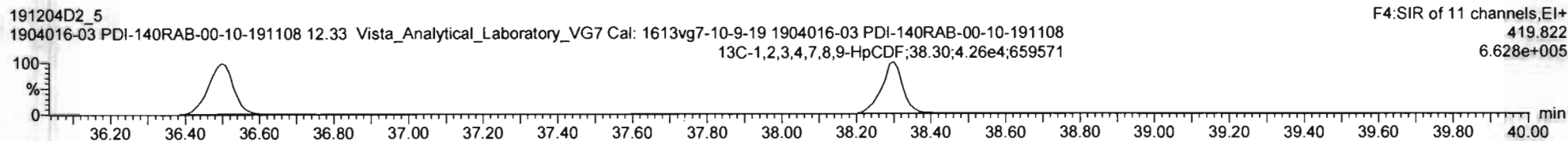
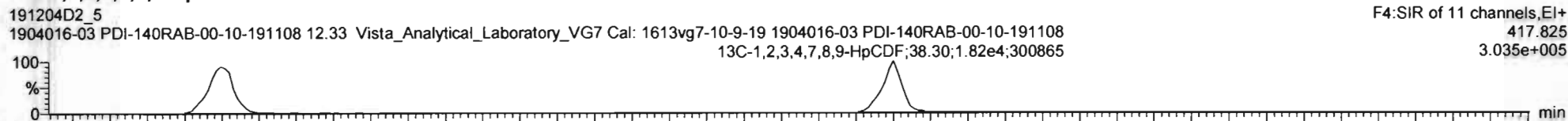
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108, Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

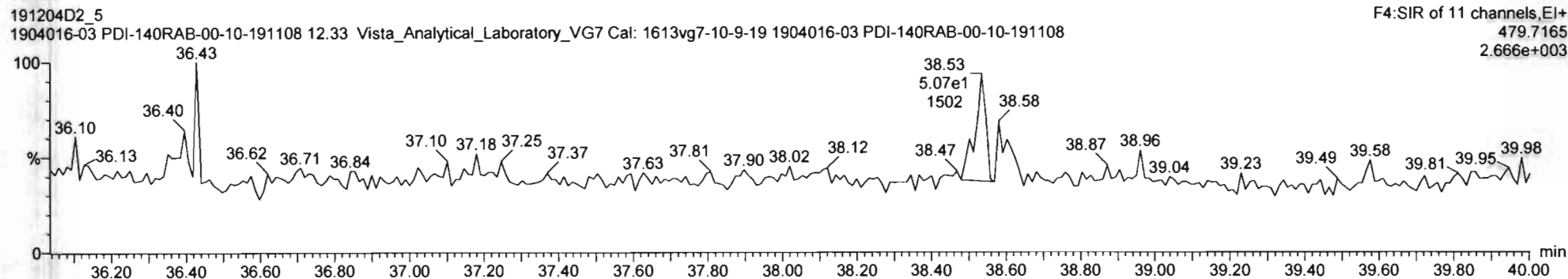
Total Hepta-Furans



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



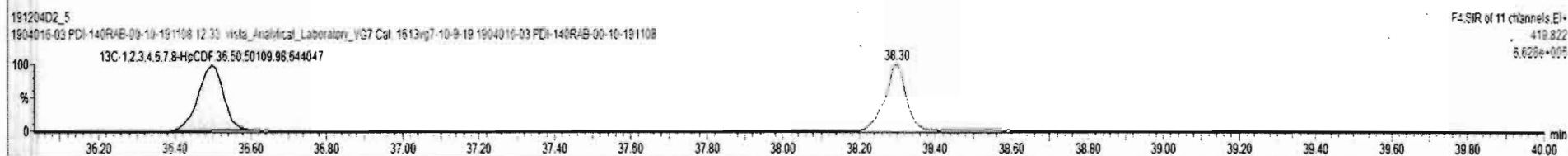
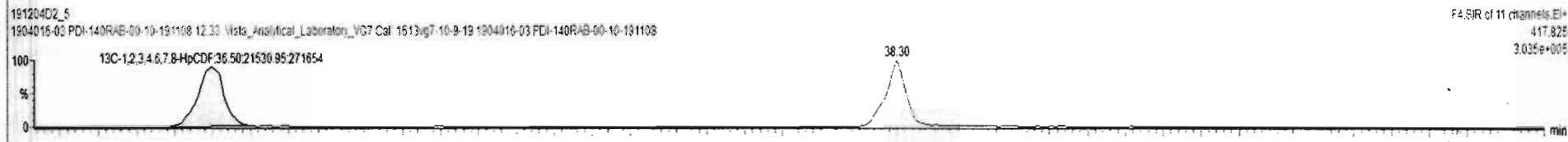
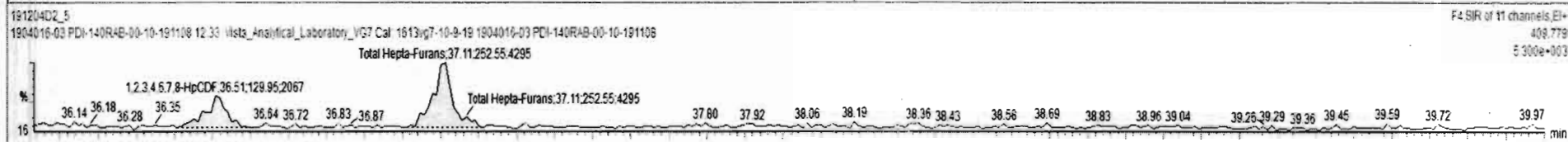
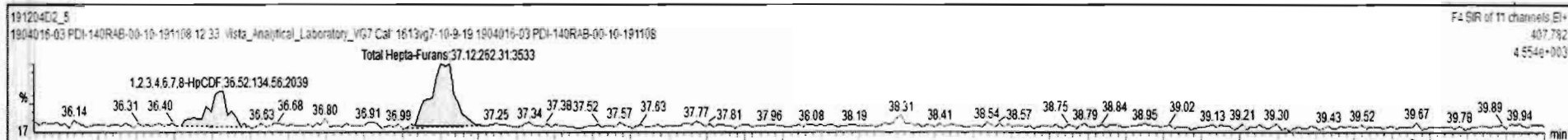
DPE4



191204D2_5 - 1904016-03.PDI-140RAB-00-10-191108 - 1904016-03.PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RPF	wtVol	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HpCDF	1.97e5	1.07e5	38	0.52	NO	1.008	10.088	33.42	33.41	1.000	1.000	NO	198.3	100	1.06	
39	Total Tetra-Dioxins		1.12e5				0.901	10.088	25.50			0.000	NO			0.113	
40	Total Penta-Dioxins		1.03e5				0.872	10.088	30.00			0.000	NO			0.118	
41	Total Hexa-Dioxins		0.00e0				0.978	10.088	33.90			0.000	NO	0.0000		0.205	0.7321
42	Total Hepta-Dioxins		5.90e4				0.989	10.088	37.75			0.000	NO	18.66		0.401	18.66
43	Total Tetra-Furans		1.64e5				0.943	10.088	24.00			0.000	NO			0.104	
44	1st Func. Penta-Furans		0.00e0				0.940	10.088	27.63			0.000	NO	0.5006		0.0475	0.5006
45	Total Penta-Furans		0.00e0				0.940	10.088	30.00			0.000	NO	0.0000		0.0782	0.3263
46	Total Hexa-Furans		0.00e0				1.078	10.088	33.00			0.000	NO	0.4914		0.155	0.6852
47	Total Hepta-Furans		0.00e0				1.135	10.088	37.75			0.000	NO	2.008		0.270	2.008
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	1,2,3,4,6,7,8-HpCDF	36.53	36.52	1.348e2	1.300e2	1.040	1.04	NO	0.64915	0.64915
2	Total Hepta-Furans	37.75	37.12	2.622e2	2.525e2	1.040	1.04	NO	1.3592	1.3592



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Vista Analytical Laboratory

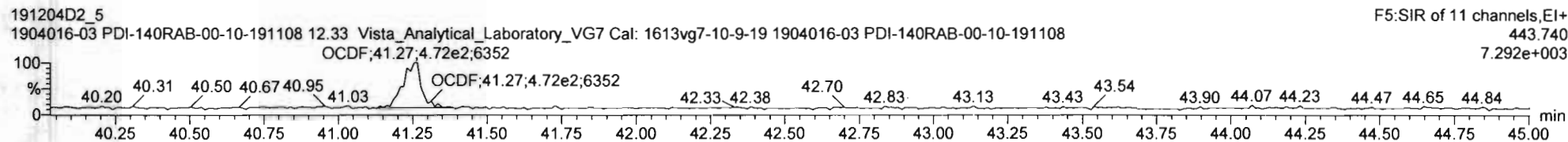
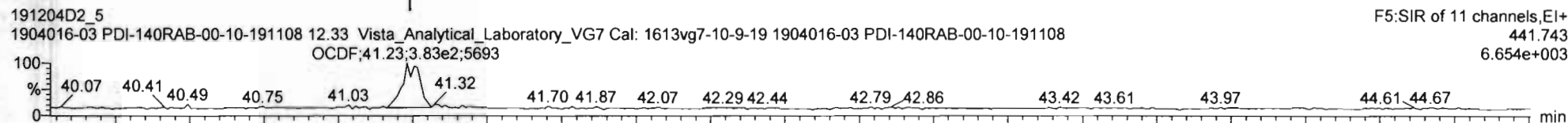
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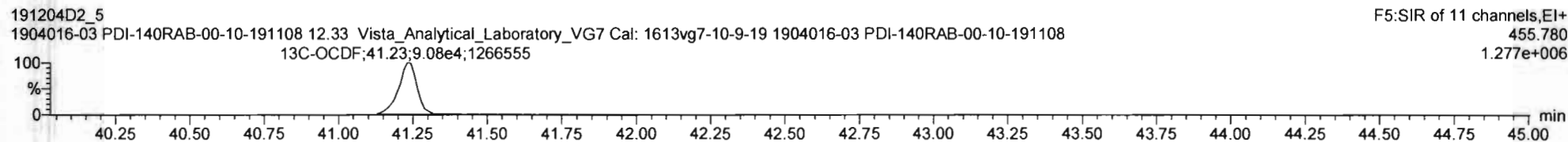
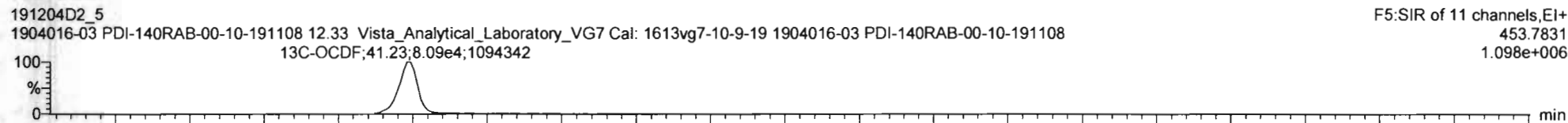
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108, Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

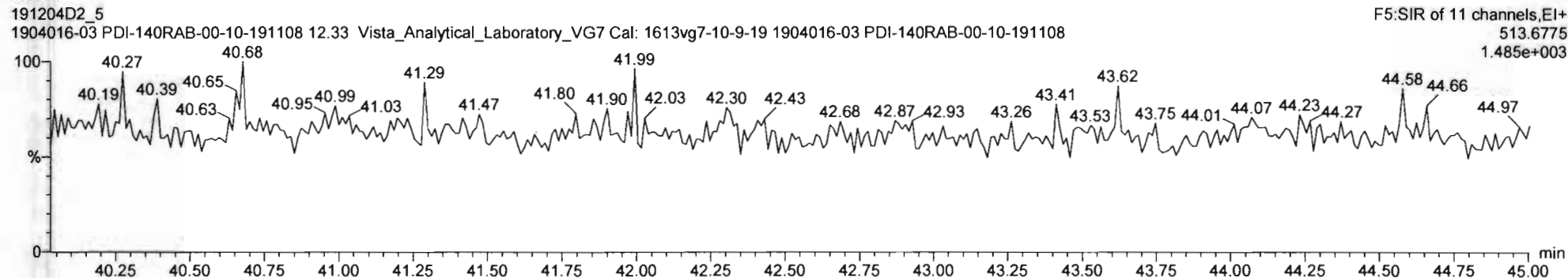
OCDF



13C-OCDF



DPE5

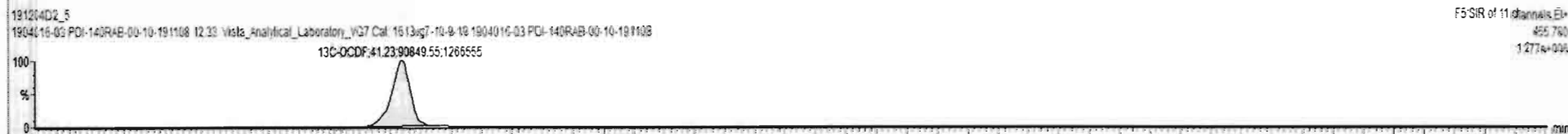
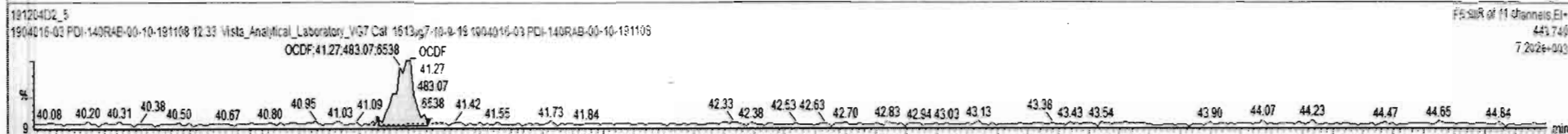
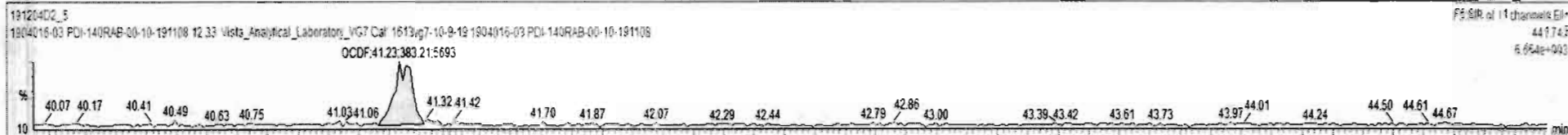




191204D2_5 - 1904016-03 PDI-140RAB-00-10-191108 - 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RPF	w/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
11	1,2,3,4,7,8-HxCDF		1.10e5	28			1.177	10.088	33.00			1.000	NO			0.125	
12	1,2,3,6,7,8-HxCDF		1.14e5	29			1.069	10.088	33.14			1.000	NO			0.131	
13	2,3,4,6,7,8-HxCDF		1.00e5	30			1.114	10.088	33.78			1.001	NO			0.154	
14	1,2,3,7,8,9-HxCDF		8.74e4	31			1.062	10.088	34.66			1.000	NO			0.209	
15	1,2,3,4,6,7,8-HpCDF	2.85e2	7.16e4	32	1.04	NO	1.128	10.088	36.53	36.52	1.001	1.001	NO	0.6452		0.285	0.6492
16	1,2,3,4,7,8,9-HpCDF		6.07e4	33			1.200	10.088	38.30			1.000	NO			0.225	
17	OCDF	8.06e2	1.72e5	34	0.79	NO	0.947	10.088	41.23	41.23	1.000	1.000	NO	2.111		0.233	2.111
18	13C-2,3,7,8-TCDD	1.12e5	9.97e4	36	0.78	NO	1.095	10.088	26.05	26.07	1.022	1.021	NO	203.1	102	0.485	
19	13C-1,2,3,7,8-PeCDD	1.03e5	9.97e4	36	0.62	NO	0.881	10.088	30.27	30.60	1.200	1.167	NO	232.6	117	0.486	
20	13C-1,2,3,4,7,8-HxCDD	7.38e4	1.07e5	38	1.27	NO	0.642	10.088	33.87	33.89	1.014	1.014	NO	212.3	107	1.05	
21	13C-1,2,3,6,7,8-HxCDD	8.37e4	1.07e5	38	1.30	NO	0.856	10.088	33.99	33.99	1.017	1.017	NO	180.7	91.1	0.815	
22	13C-1,2,3,7,8,9-HxCDD	8.48e4	1.07e5	38	1.31	NO	0.807	10.088	34.29	34.28	1.026	1.026	NO	194.3	98.0	0.865	
23	13C-1,2,3,4,6,7,8-HpCDD	6.90e4	1.07e5	38	1.03	NO	0.654	10.088	37.62	37.76	1.130	1.126	NO	194.6	98.2	1.24	
24	13C-OCDD	1.36e5	1.07e5	38	0.90	NO	0.580	10.088	40.96	41.02	1.228	1.226	NO	434.7	110	0.825	
25	13C-2,3,7,8-TCDF	1.64e5	1.67e5	37	0.78	NO	1.035	10.088	25.30	25.27	0.991	0.992	NO	188.1	94.9	0.516	

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



Vista Analytical Laboratory

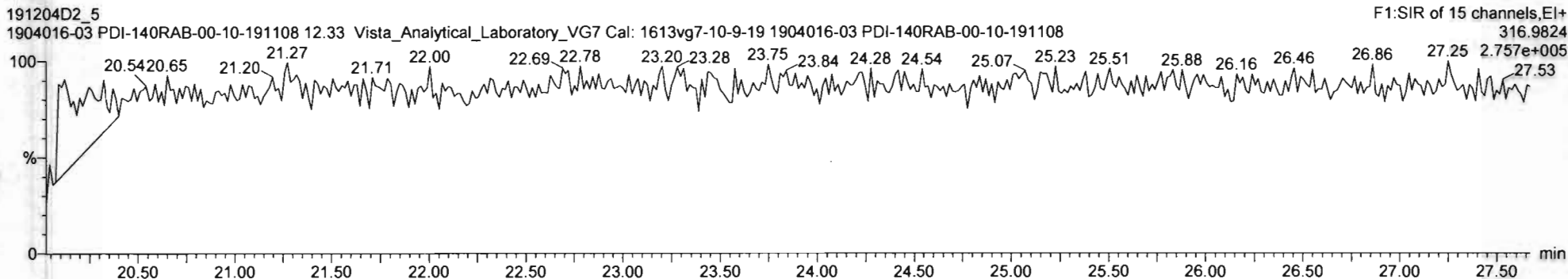
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

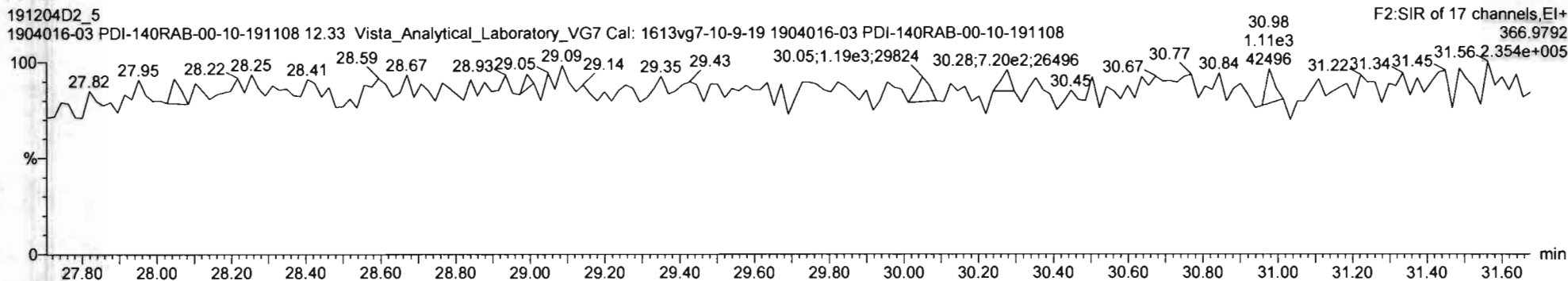
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Name: 191204D2_5, Date: 5-DEC-2019, Time: 10:45:45, ID: 1904016-03 PDI-140RAB-00-10-191108,
Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

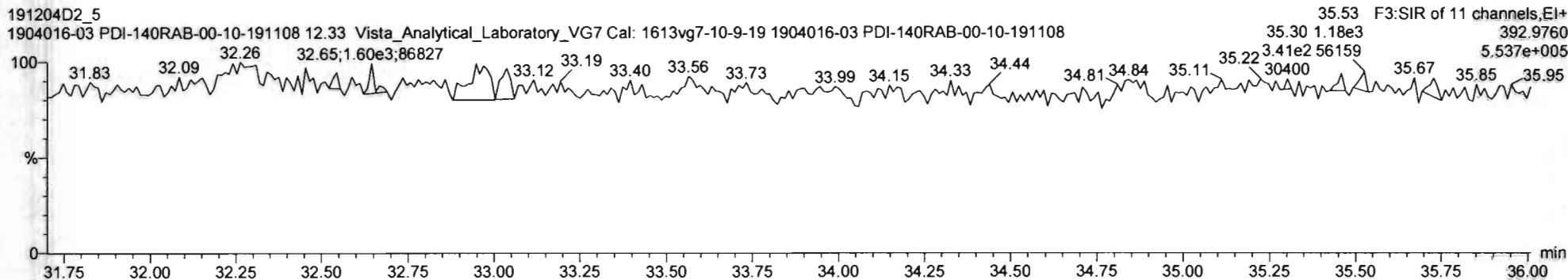
PFK1



PFK2



PFK3



Vista Analytical Laboratory

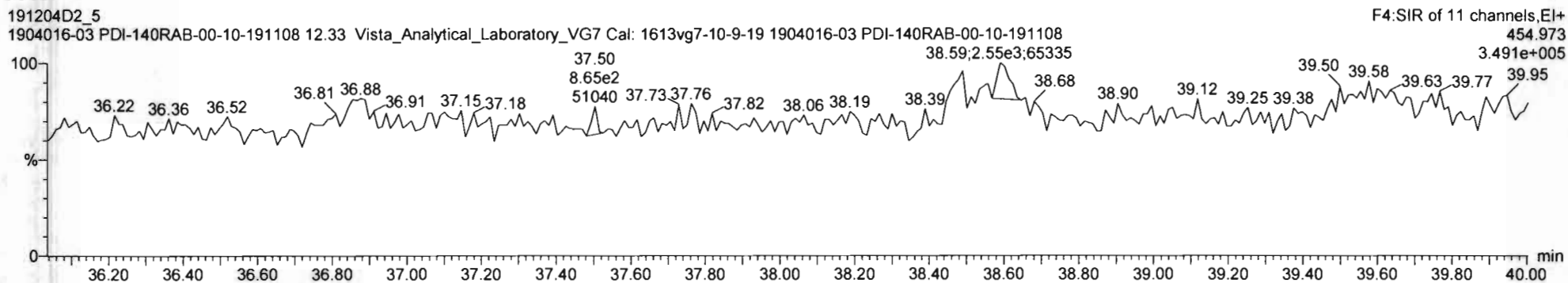
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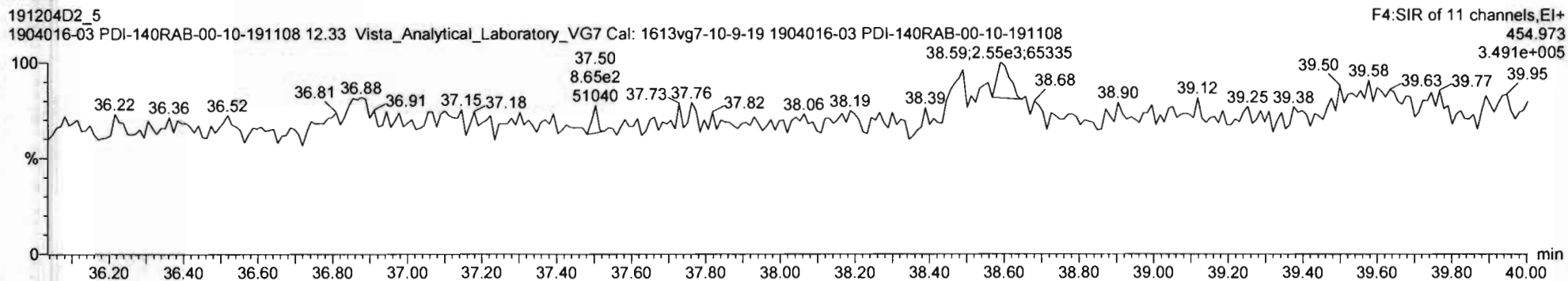
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Description: 1904016-03 PDI-140RAB-00-10-191108 12.33 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

PFK4



PFK5



Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-6.qld

Last Altered: Thursday, December 19, 2019 09:34:01 Pacific Standard Time

Printed: Thursday, December 19, 2019 09:38:38 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 12:20:07

Name: 191204D2_6, Date: 5-DEC-2019, Time: 11:33:42, ID: 1904016-04 PDI-140RAB-10-12.7-191108,

Description: 1904016-04 PDI-140RAB-10-12.7-191108 12.53 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		1.12e5	10.0858	0.905			1.001		26.10					0.244
2	2 1,2,3,7,8-PeCDD		1.01e5	10.0858	0.903			1.001		30.62					0.231
3	3 1,2,3,4,7,8-HxCDD		7.69e4	10.0858	1.101			1.000		33.90					0.342
4	4 1,2,3,6,7,8-HxCDD		8.09e4	10.0858	0.939			1.000		34.00					0.390
5	5 1,2,3,7,8,9-HxCDD		8.42e4	10.0858	0.961			1.001		34.33					0.393
6	6 1,2,3,4,6,7,8-HpCDD	6.46e3	6.62e4	10.0858	0.979	1.050	NO	1.000	1.000	37.77	37.77	19.771		19.8	0.583
7	7 OCDD	4.21e4	1.40e5	10.0858	0.959	0.890	NO	1.000	1.000	41.01	41.02	124.22		124	0.419
8	8 2,3,7,8-TCDF		1.65e5	10.0858	0.950			1.001		25.30					0.201
9	9 1,2,3,7,8-PeCDF	1.24e2	1.71e5	10.0858	0.960	0.967	YES	1.001	1.001	29.43	29.43	0.15026		0.122 ok	0.184
10	10 2,3,4,7,8-PeCDF	1.08e2	1.63e5	10.0858	1.015	1.340	NO	1.001	1.001	30.34	30.33	0.12875		0.129	0.114
11	11 1,2,3,4,7,8-HxCDF		1.09e5	10.0858	1.177			1.000		33.00					0.142
12	12 1,2,3,6,7,8-HxCDF		1.11e5	10.0858	1.069			1.000		33.14					0.151
13	13 2,3,4,6,7,8-HxCDF	1.97e2	9.99e4	10.0858	1.114	1.791	YES	1.001	1.001	33.75	33.74	0.35056		0.281	0.189
14	14 1,2,3,7,8,9-HxCDF		8.92e4	10.0858	1.062			1.000		34.67					0.227
15	15 1,2,3,4,6,7,8-HpCDF	8.19e2	7.65e4	10.0858	1.128	1.017	NO	1.001	1.000	36.54	36.52	1.8805		1.88	0.457
16	16 1,2,3,4,7,8,9-HpCDF		6.22e4	10.0858	1.280			1.000		38.30					0.413
17	17 OCDF	2.05e3	1.73e5	10.0858	0.947	0.941	NO	1.000	1.001	41.23	41.26	4.9563		4.96	0.238
18	18 13C-2,3,7,8-TCDD	1.12e5	1.02e5	10.0858	1.095	0.798	NO	1.021	1.022	26.04	26.07	199.77	100.7		0.577
19	19 13C-1,2,3,7,8-PeCDD	1.01e5	1.02e5	10.0858	0.881	0.623	NO	1.187	1.200	30.27	30.60	224.22	113.1		0.433
20	20 13C-1,2,3,4,7,8-Hx...	7.69e4	1.10e5	10.0858	0.642	1.283	NO	1.014	1.014	33.88	33.89	215.35	108.6		0.883
21	21 13C-1,2,3,6,7,8-Hx...	8.09e4	1.10e5	10.0858	0.856	1.285	NO	1.017	1.017	34.00	34.00	169.98	85.7		0.662
22	22 13C-1,2,3,7,8,9-Hx...	8.42e4	1.10e5	10.0858	0.807	1.277	NO	1.026	1.026	34.30	34.29	187.74	94.7		0.703
23	23 13C-1,2,3,4,6,7,8-H...	6.62e4	1.10e5	10.0858	0.654	1.083	NO	1.126	1.130	37.64	37.76	182.08	91.8		1.07
24	24 13C-OCDD	1.40e5	1.10e5	10.0858	0.580	0.906	NO	1.226	1.227	40.97	41.01	435.48	109.8		0.953
25	25 13C-2,3,7,8-TCDF	1.65e5	1.68e5	10.0858	1.035	0.801	NO	0.992	0.991	25.30	25.27	188.50	95.1		0.597
26	26 13C-1,2,3,7,8-PeCDF	1.71e5	1.68e5	10.0858	0.854	1.643	NO	1.154	1.153	29.43	29.41	236.07	119.0		0.716
27	27 13C-2,3,4,7,8-PeCDF	1.63e5	1.68e5	10.0858	0.847	1.540	NO	1.189	1.188	30.33	30.31	227.62	114.8		0.722
28	28 13C-1,2,3,4,7,8-Hx...	1.09e5	1.10e5	10.0858	0.832	0.512	NO	0.987	0.988	32.99	33.00	234.70	118.4		1.23
29	29 13C-1,2,3,6,7,8-Hx...	1.11e5	1.10e5	10.0858	1.034	0.532	NO	0.991	0.991	33.11	33.13	193.68	97.7		0.987
30	30 13C-2,3,4,6,7,8-Hx...	9.99e4	1.10e5	10.0858	0.953	0.516	NO	1.009	1.009	33.73	33.72	188.51	95.1		1.07
31	31 13C-1,2,3,7,8,9-Hx...	8.92e4	1.10e5	10.0858	0.828	0.524	NO	1.039	1.038	34.71	34.67	193.87	97.8		1.23

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-6.qld

Last Altered: Thursday, December 19, 2019 09:34:01 Pacific Standard Time

Printed: Thursday, December 19, 2019 09:38:38 Pacific Standard Time

Name: 191204D2_6, Date: 5-DEC-2019, Time: 11:33:42, ID: 1904016-04 PDI-140RAB-10-12.7-191108,
 Description: 1904016-04 PDI-140RAB-10-12.7-191108 12.53 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...	7.65e4	1.10e5	10.0858	0.757	0.435	NO	1.093	1.092	36.52	36.51	181.74	91.6		1.09
33	33 13C-1,2,3,4,7,8,9-H...	6.22e4	1.10e5	10.0858	0.581	0.436	NO	1.143	1.146	38.20	38.30	192.58	97.1		1.41
34	34 13C-OCDF	1.73e5	1.10e5	10.0858	0.689	0.907	NO	1.233	1.234	41.21	41.23	451.36	113.8		0.790
35	35 37Cl-2,3,7,8-TCDD	4.69e4	1.02e5	10.0858	1.198			1.022	1.023	26.07	26.08	76.214	96.1		0.159
36	36 13C-1,2,3,4-TCDD	1.02e5	1.02e5	10.0858	1.000	0.779	NO	1.000	1.000	25.50	25.51	198.30	100.0		0.632
37	37 13C-1,2,3,4-TCDF	1.68e5	1.68e5	10.0858	1.000	0.823	NO	1.000	1.000	24.06	24.06	198.30	100.0		0.618
38	38 13C-1,2,3,4,6,9-Hx...	1.10e5	1.10e5	10.0858	1.000	0.514	NO	1.000	1.000	33.42	33.42	198.30	100.0		1.02
39	39 Total Tetra-Dioxins		1.12e5	10.0858	0.901			0.000		25.50					0.141
40	40 Total Penta-Dioxins		1.01e5	10.0858	0.872			0.000		30.00		0.00000		0.440	0.0957
41	41 Total Hexa-Dioxins		0.00e0	10.0858	0.976			0.000		33.80		4.8110		5.23	0.383
42	42 Total Hepta-Dioxins		6.62e4	10.0858	0.989			0.000		37.75		44.596		44.6	0.578
43	43 Total Tetra-Furans		1.65e5	10.0858	0.943			0.000		24.00		0.00000		0.512	0.0890
44	44 1st Func. Penta-Fur...		0.00e0	10.0858	0.940			0.000		27.63		2.5581		2.56	0.0768
45	45 Total Penta-Furans		0.00e0	10.0858	0.940			0.000		30.00		2.3216		3.07	0.130
46	46 Total Hexa-Furans		0.00e0	10.0858	1.078			0.000		33.00		3.5586		4.34	0.171
47	47 Total Hepta-Furans		0.00e0	10.0858	1.135			0.000		37.75		5.7410		5.74	0.459

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-6.qld
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 Printed: Thursday, December 19, 2019 09:38:38 Pacific Standard Time

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 Calibration: 06 Dec 2019 12:20:07

Name: 191204D2_6, Date: 5-DEC-2019, Time: 11:33:42, ID: 1904016-04 PDI-140RAB-10-12.7-191108,
 Description: 1904016-04 PDI-140RAB-10-12.7-191108 12.53 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	YES	28.99	49.746	38954.164	0.000	MM	0.0000	0.19
2	40 Total Penta-Dioxins	YES	28.54	43.889	38954.164	0.000	MM	0.0000	0.25

Hexa-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	41 Total Hexa-Dioxins	NO	33.19	559.838	45304.179	23.690	MM	2.4069	2.41
2	41 Total Hexa-Dioxins	YES	32.96	109.970	45304.179	0.000	MM	0.0000	0.42
3	41 Total Hexa-Dioxins	NO	32.39	543.368	45304.179	23.663	MM	2.4041	2.40

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	3311.159	34416.988	195.296	bb	19.7706	19.77
2	42 Total Hepta-Dioxins	NO	36.92	4118.437	34416.988	247.554	bb	24.8252	24.83

Tetra-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	43 Total Tetra-Furans	YES	21.69	206.135	73468.336	0.000	MM	0.0000	0.51

Penta-Furans function 1

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	44 1st Func. Penta-Furans	NO	27.08	1216.665	102588.031	24.243	bb	2.5581	2.56

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-6.qld

Last Altered: Thursday, December 19, 2019 09:34:01 Pacific Standard Time

Printed: Thursday, December 19, 2019 09:38:38 Pacific Standard Time

Name: 191204D2_6, Date: 5-DEC-2019, Time: 11:33:42, ID: 1904016-04 PDI-140RAB-10-12.7-191108,
 Description: 1904016-04 PDI-140RAB-10-12.7-191108 12.53 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	29.65	80.595	102588.031	0.000	MM	0.0000	0.17
2	9 1,2,3,7,8-PeCDF	YES	29.43	61.116	106165.445	0.000	MM	0.0000	0.12
3	45 Total Penta-Furans	NO	29.05	259.248	102588.031	4.996	MM	0.5272	0.53
4	45 Total Penta-Furans	NO	28.54	797.041	102588.031	15.785	MM	1.6657	1.67
5	10 2,3,4,7,8-PeCDF	NO	30.33	61.622	99010.617	1.318	MM	0.1288	0.13
6	45 Total Penta-Furans	NO	30.37	231.333	102588.031	0.000	MM	0.0000	0.46

Hexa-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	13 2,3,4,6,7,8-HxCDF	YES	33.74	126.232	34034.398	0.000	MM	0.0000	0.28
2	46 Total Hexa-Furans	NO	32.55	591.853	35043.640	20.514	MM	1.8874	1.89
3	46 Total Hexa-Furans	NO	32.01	523.249	35043.640	18.164	MM	1.6712	1.67
4	46 Total Hexa-Furans	YES	31.86	191.922	35043.640	0.000	bd	0.0000	0.50

Hepta-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	47 Total Hepta-Furans	NO	37.11	776.583	21047.006	44.182	MM	3.8605	3.86
2	15 1,2,3,4,6,7,8-HpCDF	NO	36.52	412.764	23206.125	21.386	MM	1.8805	1.88

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-6.qld

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Printed: Friday, December 06, 2019 15:12:00 Pacific Standard Time

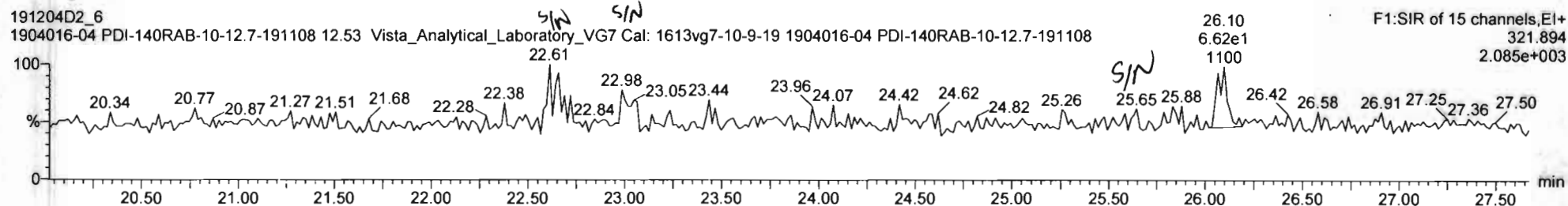
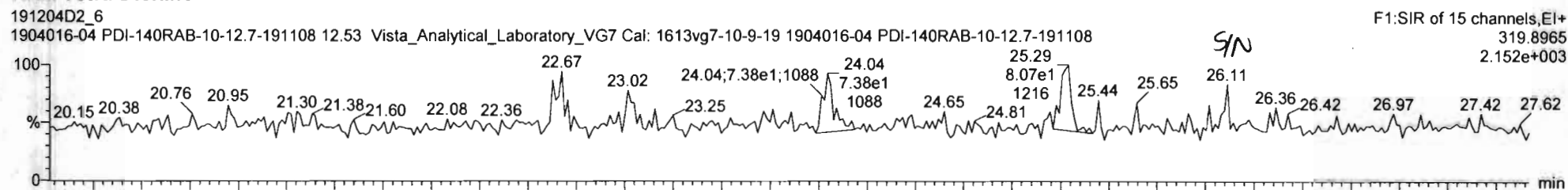
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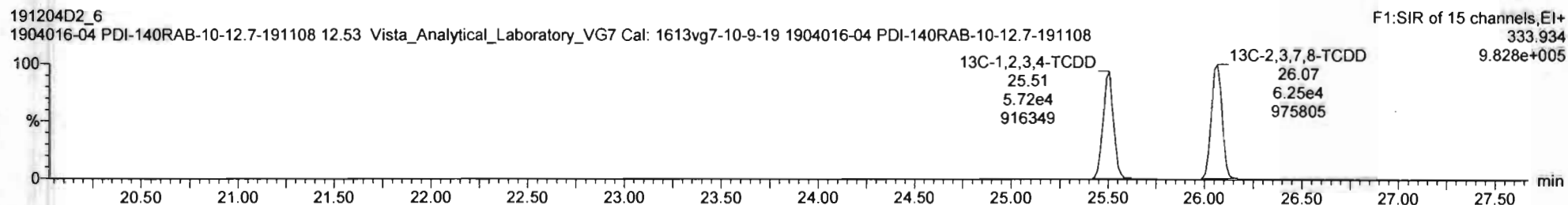
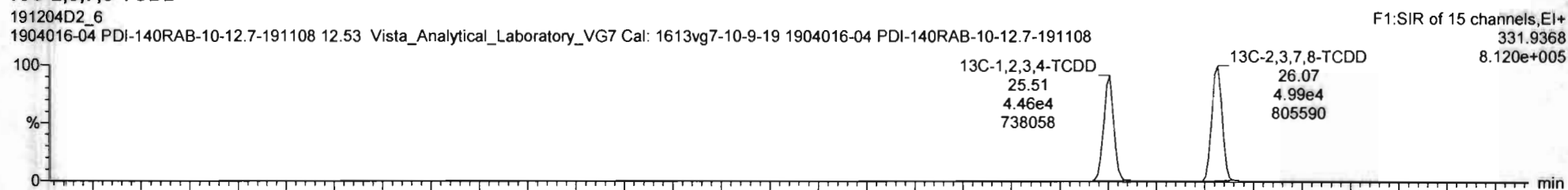
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Description: 1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Tetra-Dioxins



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



Vista Analytical Laboratory

Dataset: Untitled

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

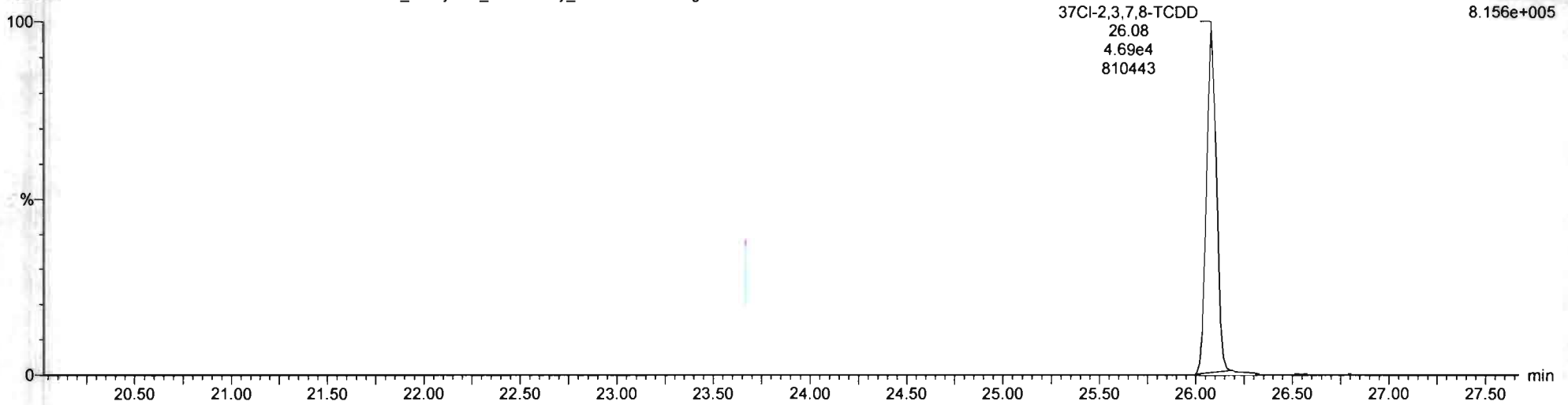
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Description: 1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

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

191204D2_6
1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-04 PDI-140RAB-10-12.7-191108

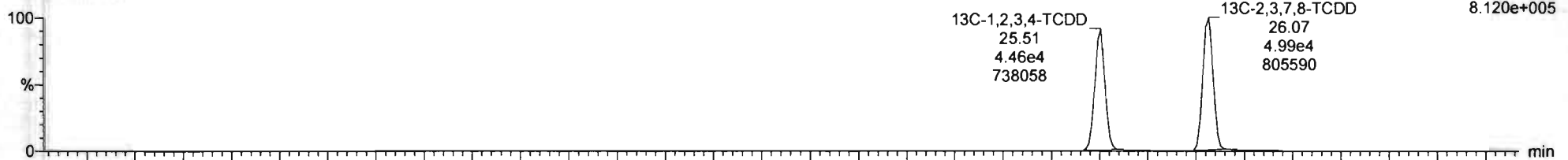
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13C-1,2,3,4-TCDD

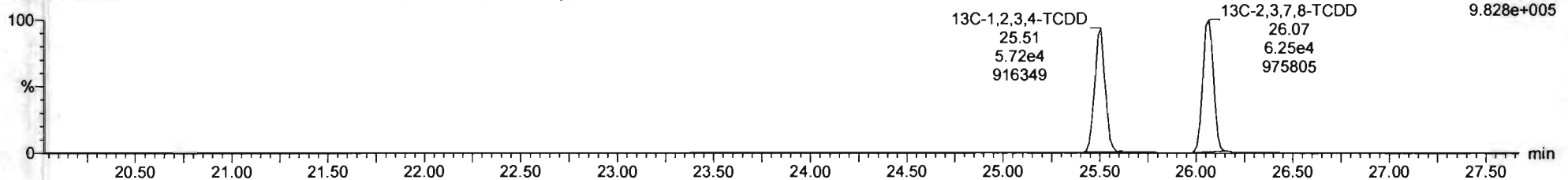
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F1:SIR of 15 channels,EI+
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8.120e+005



191204D2_6
1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-04 PDI-140RAB-10-12.7-191108

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Vista Analytical Laboratory

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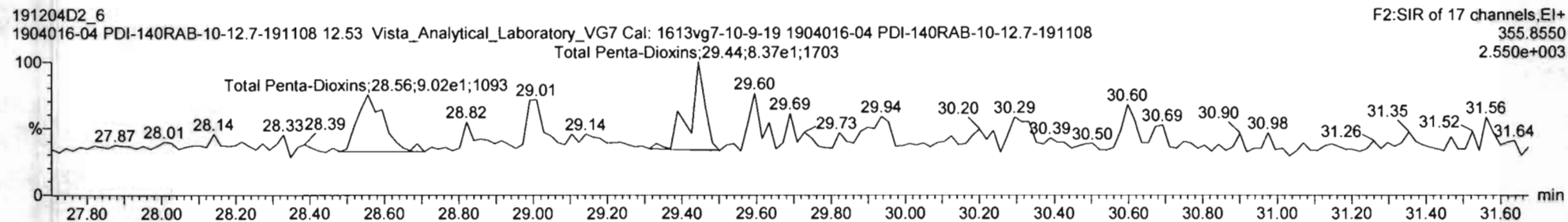
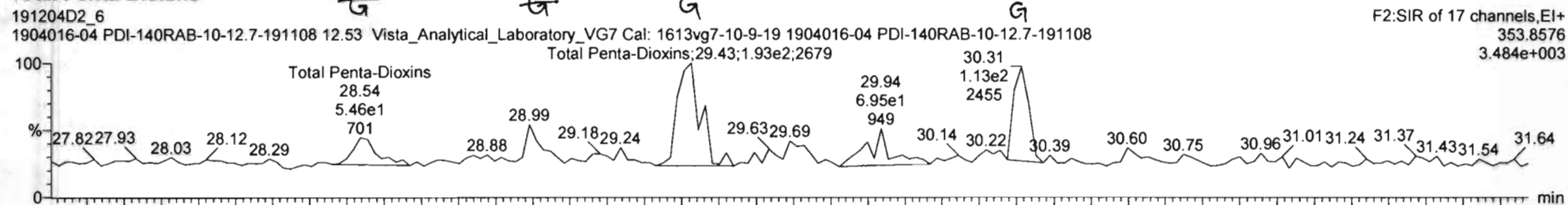
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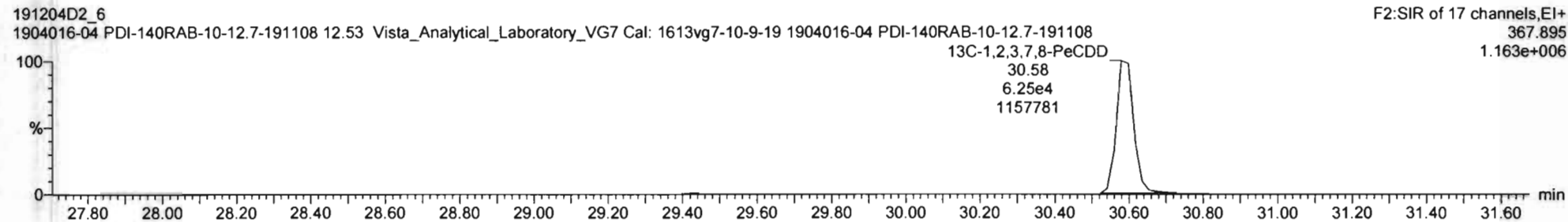
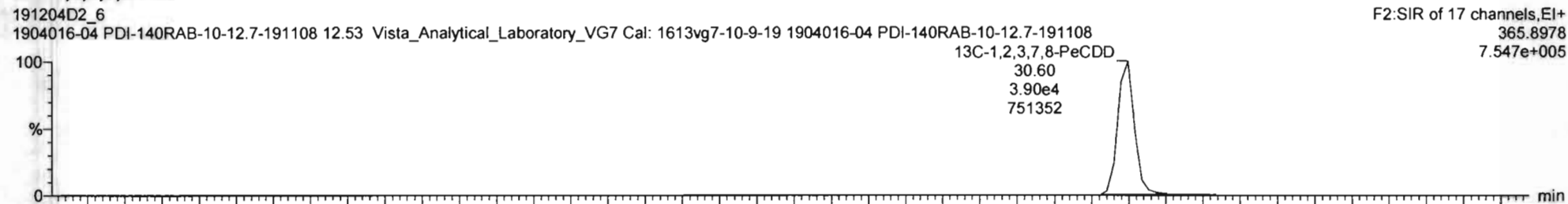
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Total Penta-Dioxins



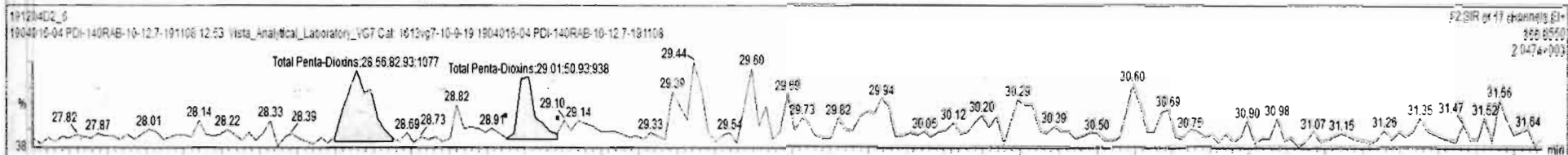
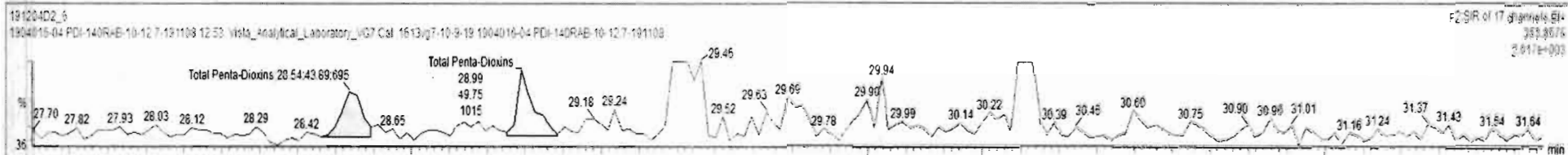
13C-1,2,3,7,8-PeCDD



191204D2_6 - 1904016-04 PDI-140RAB-10-12-7-191108 - 1904016-04 PDI-140RAB-10-12-7-191108 12.53 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
30	13C-2,3,4,6,7,8-HxCDF	9.99e4	1.10e5	38	0.52	NO	0.953	10.086	33.73	33.72	1.006	1.006	NO	182.5	95.1	1.07	
31	13C-1,2,3,7,8,9-HxCDF	8.92e4	1.10e5	38	0.52	NO	0.828	10.086	34.71	34.67	1.038	1.036	NO	193.6	97.8	1.23	
32	13C-1,2,3,4,6,7,8-HpCDF	7.65e4	1.10e5	38	0.44	NO	0.757	10.086	36.52	36.51	1.092	1.093	NO	161.7	91.8	1.89	
33	13C-1,2,3,4,7,8,9-HpCDF	6.22e4	1.10e5	38	0.44	NO	0.581	10.086	38.20	38.30	1.146	1.143	NO	192.6	97.1	1.41	
34	13C-OCDF	1.73e5	1.10e5	38	0.91	NO	0.689	10.086	41.21	41.23	1.234	1.233	NO	451.4	114	0.790	
35	37C-2,3,7,8-TCDD	4.69e4	1.02e5	36			1.196	10.086	26.07	26.08	1.023	1.022	NO	76.21	96.1	0.159	
36	13C-1,2,3,4-TCDD	1.92e5	1.02e5	36	0.78	NO	1.000	10.086	25.50	25.51	1.000	1.000	NO	198.3	100	0.832	
37	13C-1,2,3,4-TCDF	1.69e5	1.88e5	37	0.82	NO	1.000	10.086	24.06	24.06	1.000	1.000	NO	198.3	100	0.818	
38	13C-1,2,3,4,6,8-HxCDF	1.10e5	1.10e5	38	0.51	NO	1.000	10.086	33.42	33.42	1.000	1.000	NO	198.3	100	1.02	
39	Total Tetra-Dioxins		1.12e5				0.901	10.086	25.50			0.000	NO			0.141	
40	Total Penta-Dioxins		1.01e5				0.872	10.086	30.00			0.000	NO	0.0000		0.0957	0.4404
41	Total Hexa-Dioxins		0.00e0				0.976	10.086	33.80			0.000	NO	4.811		0.383	5.234

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	30.00	28.54	4.389e1	8.293e1	0.630	0.53	YES	0.25442	0.00000
2	40 Total Penta-Dioxins	30.60	28.99	4.975e1	5.093e1	0.630	0.96	YES	0.18601	0.00000



Vista Analytical Laboratory

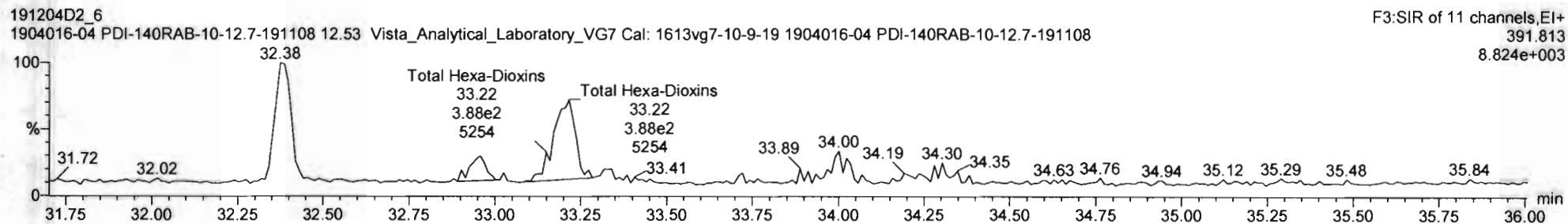
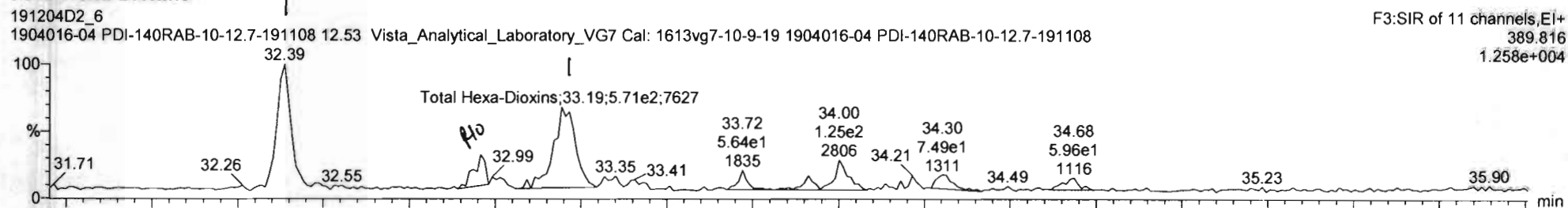
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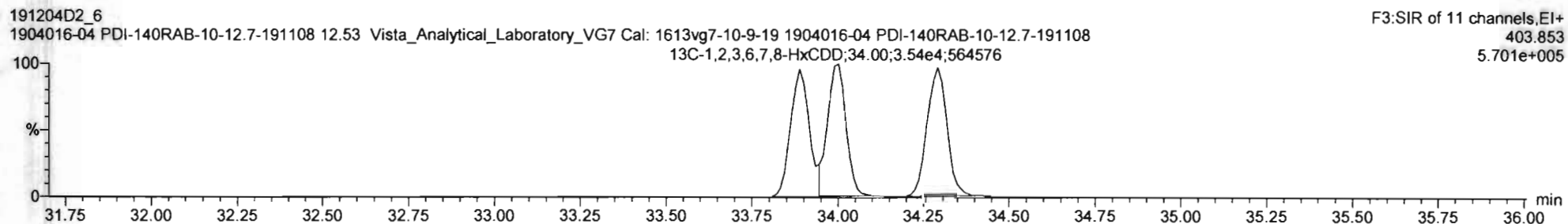
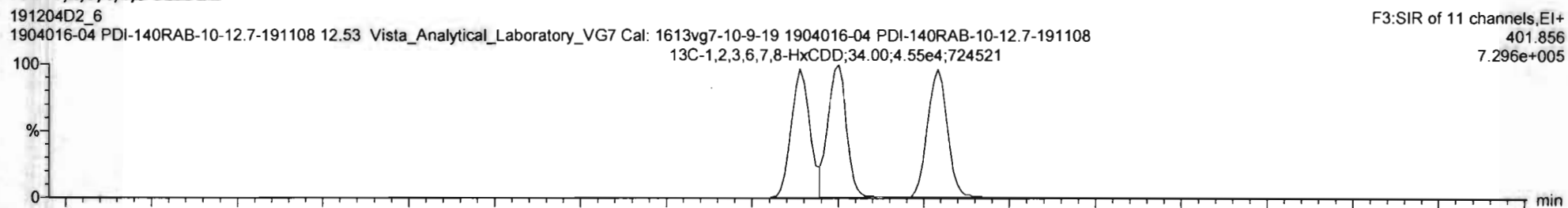
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Name: 191204D2_6, Date: 5-DEC-2019, Time: 11:33:42, ID: 1904016-04 PDI-140RAB-10-12.7-191108,
Description: 1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hexa-Dioxins



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

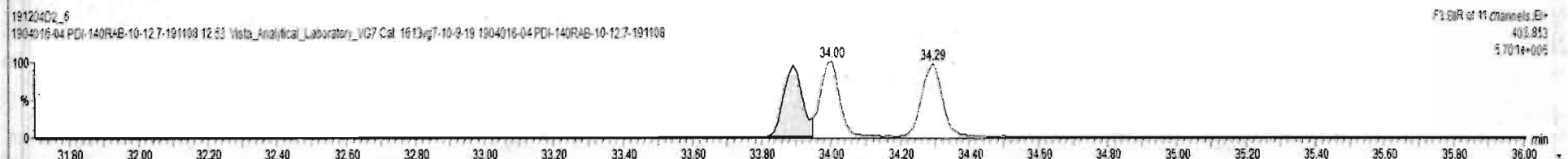
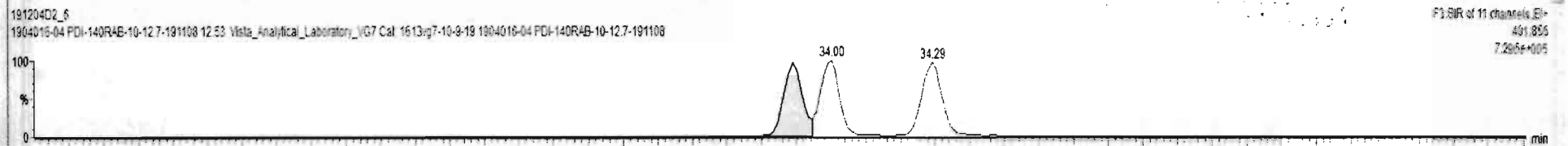
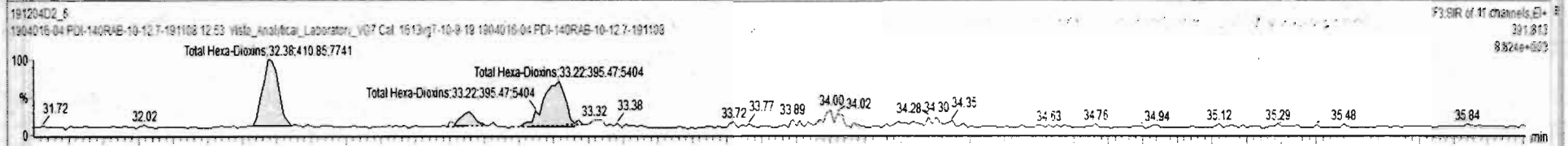
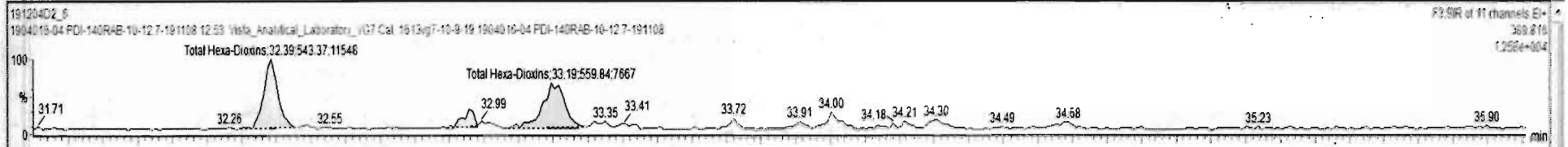




191204D2_6 - 1904016-04 PDI-140RAB-10-12-7-191108 - 1904016-04 PDI-140RAB-10-12-7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

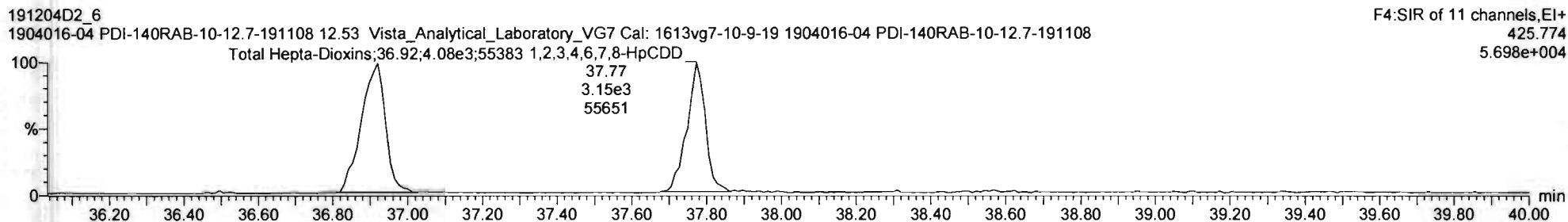
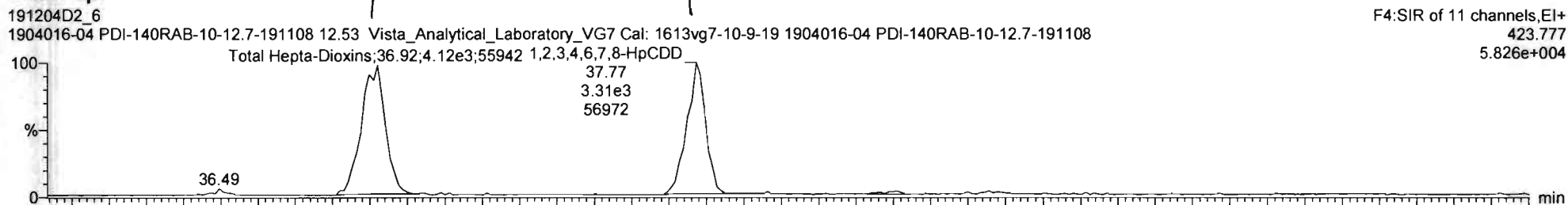
#	Name	Resp	RA	n/y	RRF	wtVal	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	1.02e5	0.78	NO		10.086	25.50	25.51	1.000	1.000	NO	198.3	100	0.632	
37	13C-1,2,3,4-TCDF	1.58e5	0.82	NO		10.086	24.06	24.06	1.000	1.000	NO	198.3	100	0.616	
38	13C-1,2,3,4,6,8-HxCDF	1.10e5	0.51	NO		10.086	33.42	33.42	1.000	1.000	NO	198.3	100	1.02	
39	Total Tetra-Dioxins					10.086	25.50		0.000		NO			0.141	
40	Total Penta-Dioxins					10.086	30.00		0.000		NO			0.0957	
41	Total Hexa-Dioxins					10.086	33.80		0.000		NO	4.611		0.363	5.234
42	Total Hepta-Dioxins					10.086	37.75		0.000		NO	44.60		0.576	44.60
43	Total Tetra-Furans					10.086	24.00		0.000		NO	0.5219		0.293	0.6670
44	Total Penta-Furans					10.086	27.75		0.000		NO			0.0746	

#	Name	Pred. RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.80	32.39	5.424e2	4.108e2	1.240	1.32	NO	2.4041	2.4041
2	41 Total Hexa-Dioxins	33.80	32.96	1.100e2	7.560e1	1.240	1.47	YES	0.42329	0.00000
3	41 Total Hexa-Dioxins	33.80	33.19	5.598e2	3.955e2	1.240	1.42	NO	2.4069	2.4069

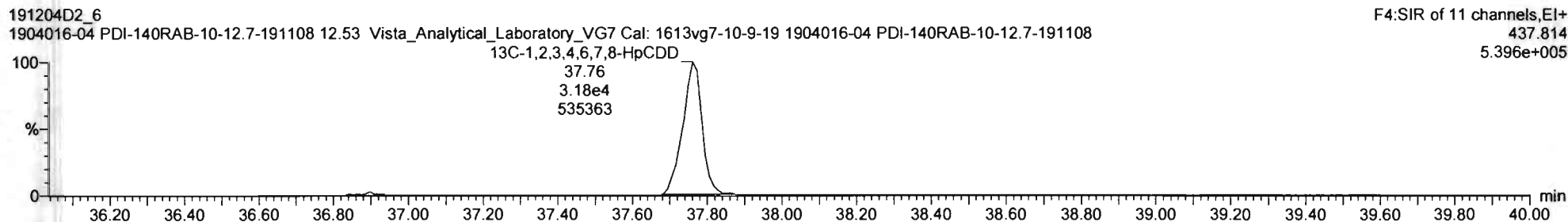
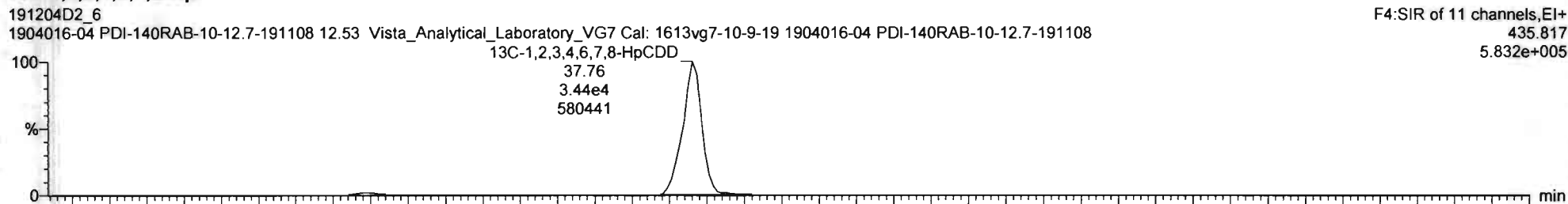


Name: 191204D2_6, Date: 5-DEC-2019, Time: 11:33:42, ID: 1904016-04 PDI-140RAB-10-12.7-191108,
Description: 1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hepta-Dioxins



¹³C-1,2,3,4,6,7,8-HpCDD



Vista Analytical Laboratory

Dataset: Untitled

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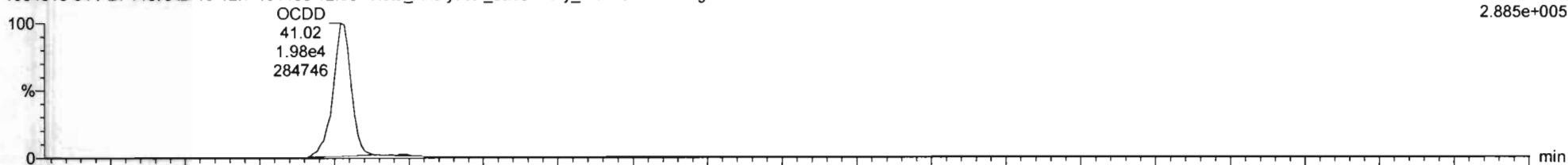
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OCDD

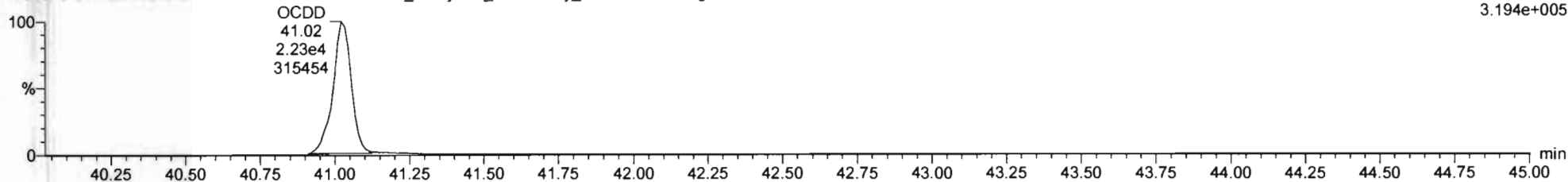
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F5:SIR of 11 channels,EI+ 459.738 2.885e+005



191204D2_6 1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-04 PDI-140RAB-10-12.7-191108

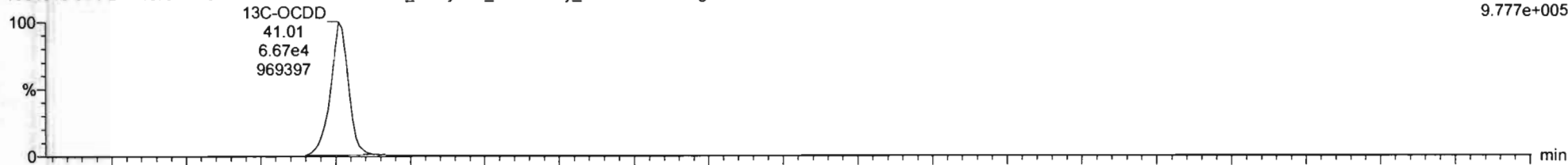
F5:SIR of 11 channels,EI+ 459.735 3.194e+005



13C-OCDD

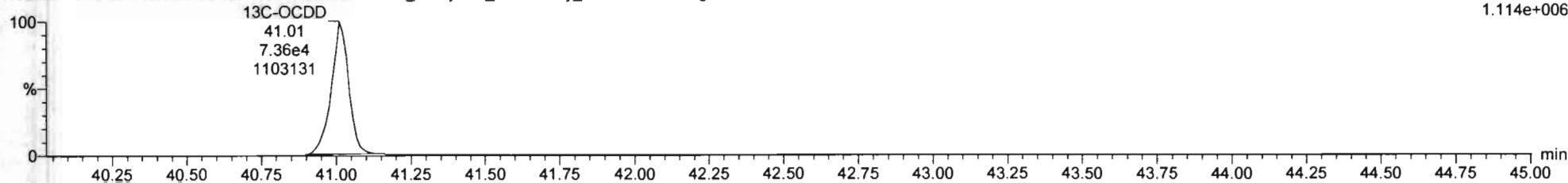
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F5:SIR of 11 channels,EI+ 469.778 9.777e+005



191204D2_6 1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-04 PDI-140RAB-10-12.7-191108

F5:SIR of 11 channels,EI+ 471.775 1.114e+006



Vista Analytical Laboratory

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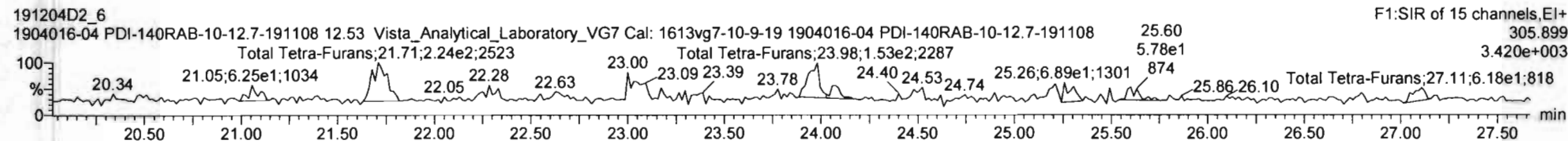
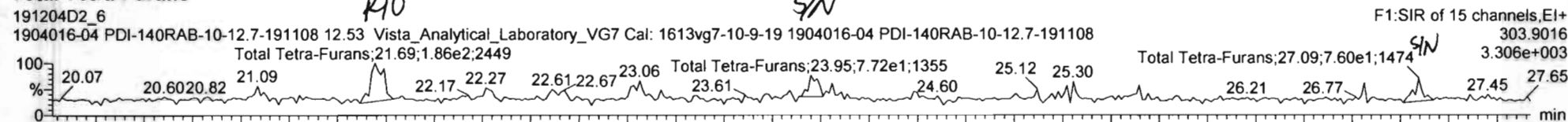
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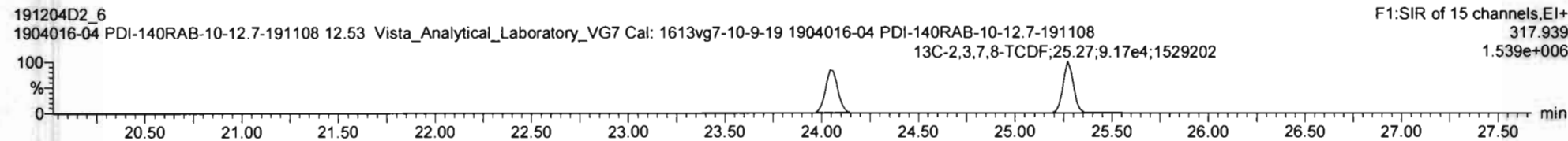
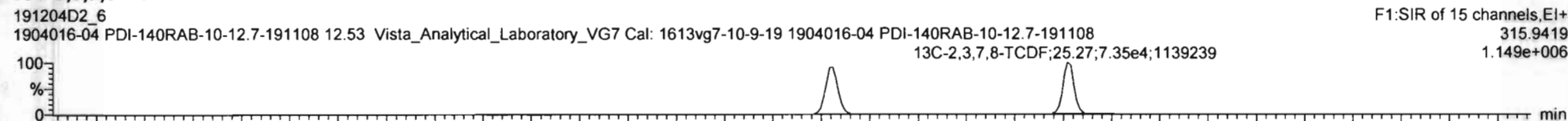
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Description: 1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

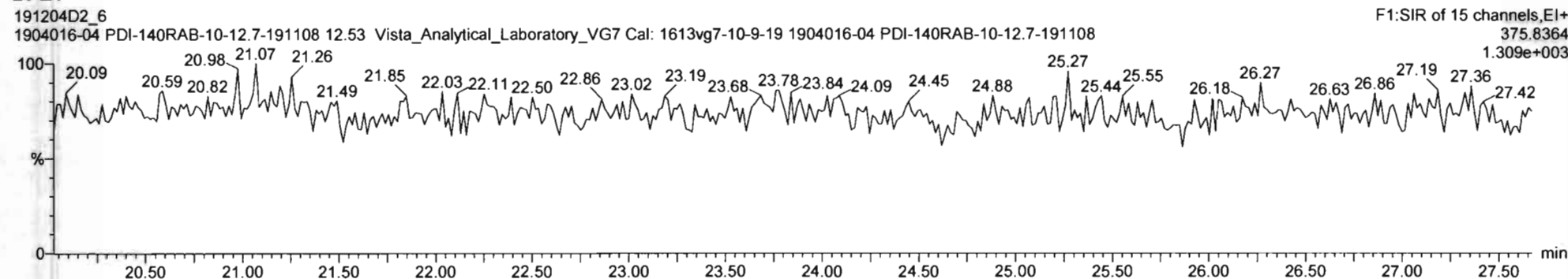
Total Tetra-Furans



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



DPE1

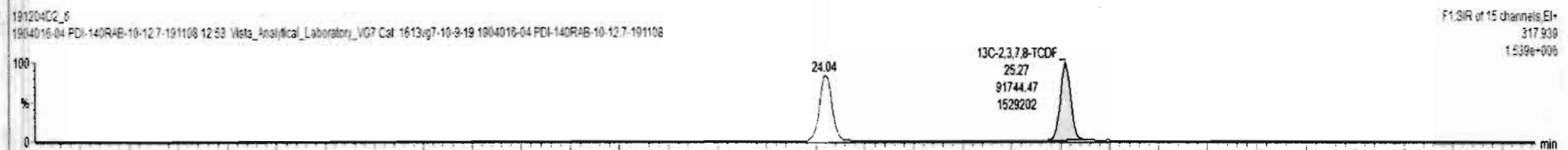
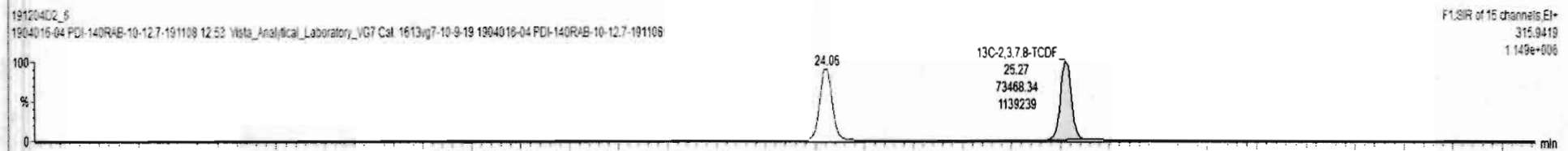
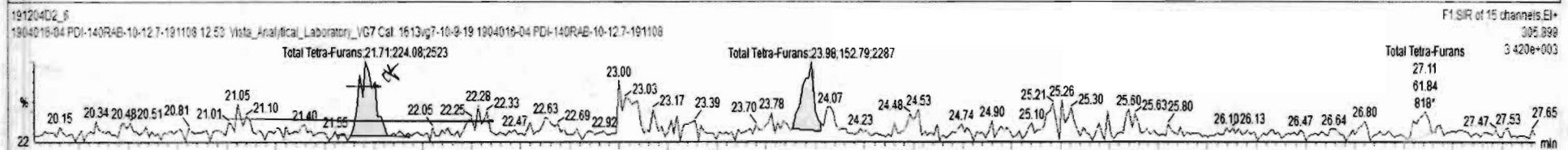
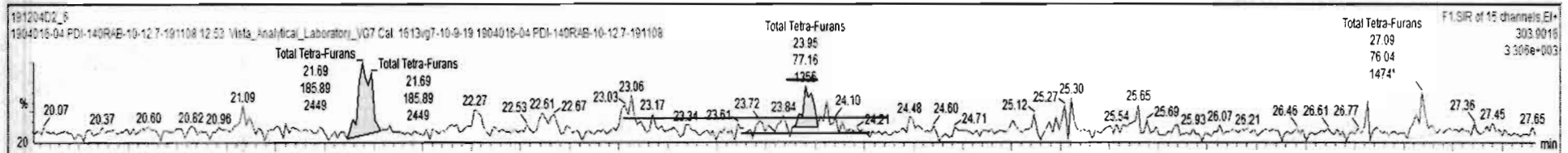




191204D2_6 - 1904016-04 PDI-140RAB-10-12-7-191108 - 1904016-04 PDI-140RAB-10-12-7-191108 12:53 Vista_Analytical_Laboratory_VG7 Cal. 1613vg7-10-9-19

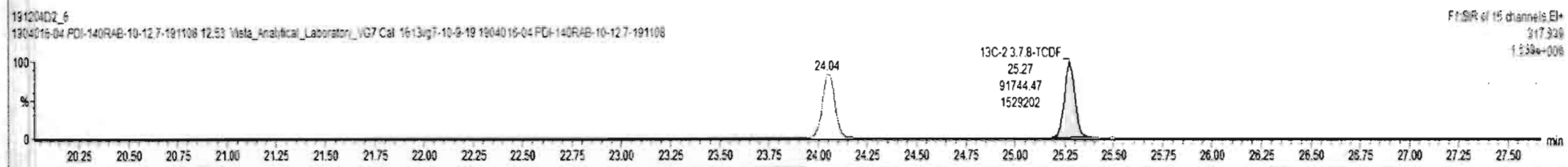
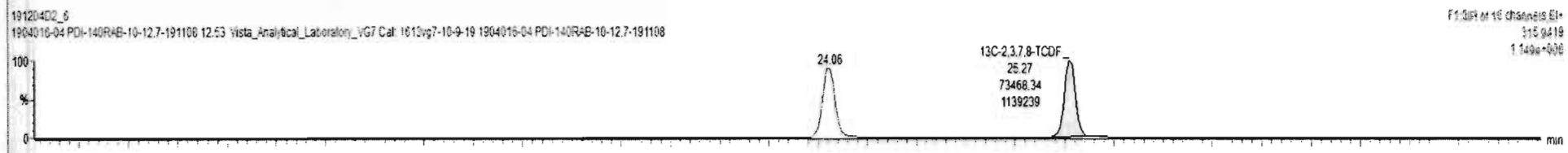
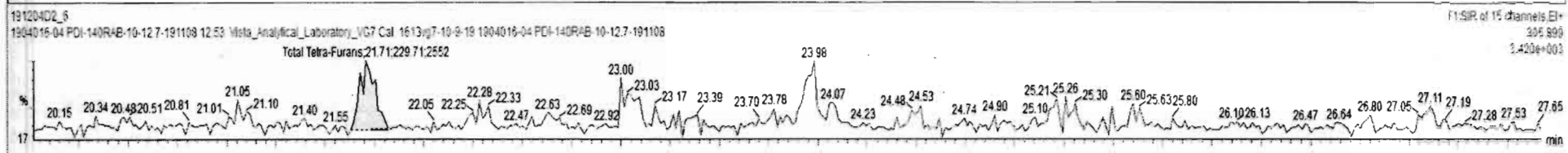
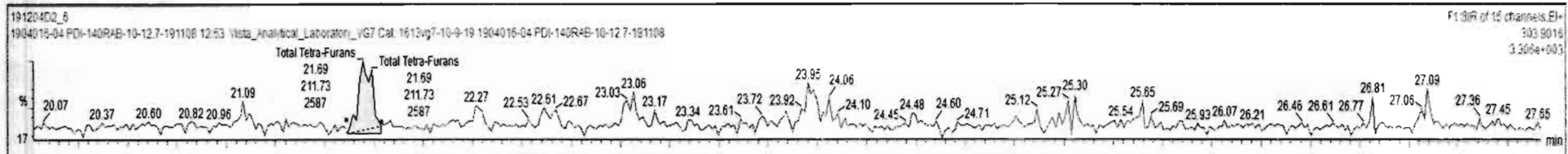
Name	Resp	RA	n/y	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	1.68e5	0.82	NO		10.066	24.06	1.000	196	100	0.619
38	13C-1,2,3,4,6,8-HxCDF	1.10e5	0.51	NO		10.066	33.42	1.000	196	100	1.02
39	Total Tetra-Dioxins					10.066					0.141
40	Total Penta-Dioxins					10.066					0.0957
41	Total Hexa-Dioxins					10.066		4.63	0.293		5.09
42	Total Hepta-Dioxins					10.066		44.6	0.578		44.6
43	Total Tetra-Furans					10.066		0.522	0.293		0.887
44	1st Func. Penta-Furans					10.066					0.0346
45	Total Penta-Furans					10.066		7.81	0.130		1.14

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	21.69	1.859e2	2.241e2	0.83	NO	0.52191
2	Total Tetra-Furans	23.95	7.716e1	1.528e2	0.50	YES	0.22579
3	Total Tetra-Furans	27.06	7.604e1	6.184e1	1.23	YES	0.13934



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
37 13C-1,2,3,4-TCDF	1.66e5	0.82	NO		10.066	24.06	1.000	196	100	0.618	
38 13C-1,2,3,4,6,9-HxCDF	1.10e5	0.51	NO		10.066	33.42	1.000	196	100	1.02	
39 Total Tetra-Dioxins					10.066					0.141	
40 Total Penta-Dioxins					10.066					0.0657	
41 Total Hexa-Dioxins					10.066			4.63		0.383	5.09
42 Total Hepta-Dioxins					10.066			44.6		0.578	44.6
43 Total Tetra-Furans					10.066			0.000		0.0890	0.518
44 1st Func. Penta-Furans					10.066					0.0346	
45 Total Penta-Furans					10.066			2.81		0.110	1.15

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.69	2.117e2	2.297e2	0.92	YES	0.51761	0.00600



Vista Analytical Laboratory

Dataset: Untitled

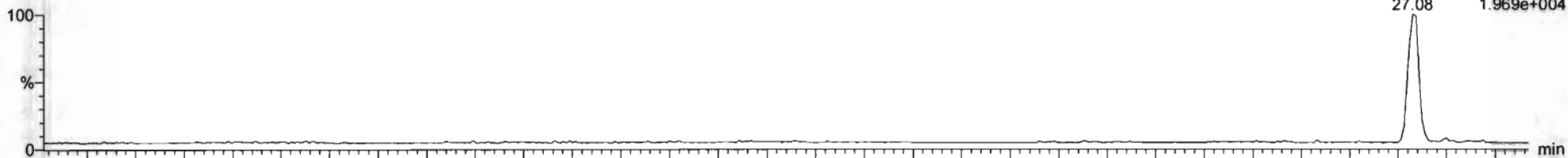
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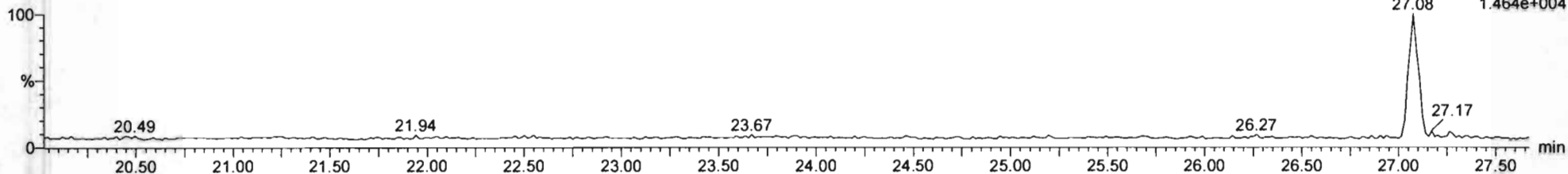
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Description: 1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

1st Func. Penta-Furans

191204D2_6
1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-04 PDI-140RAB-10-12.7-191108

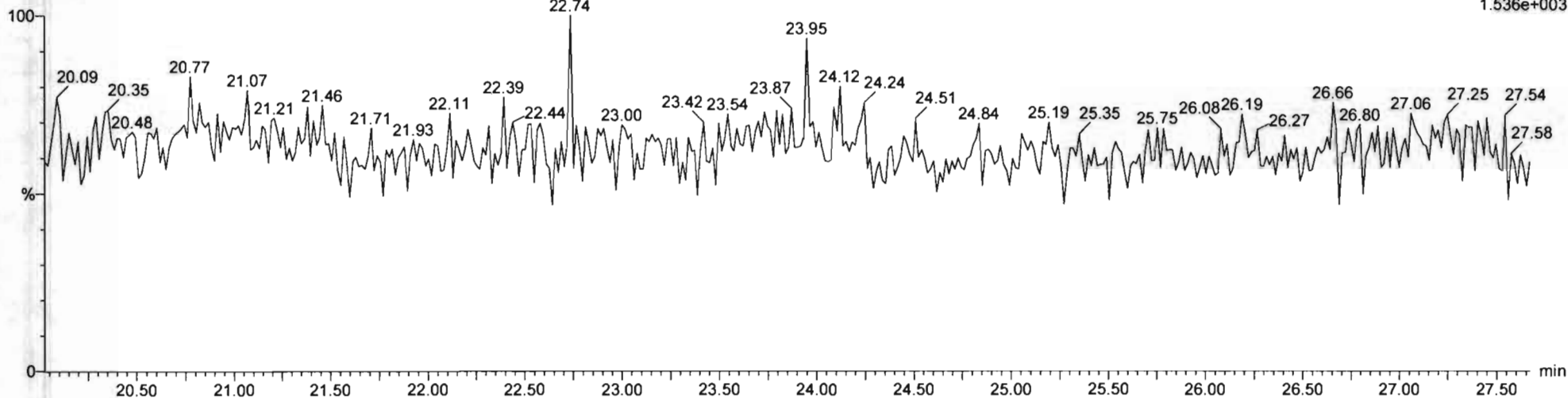


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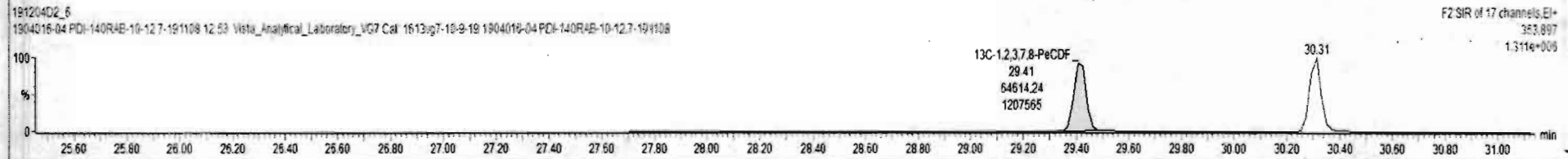
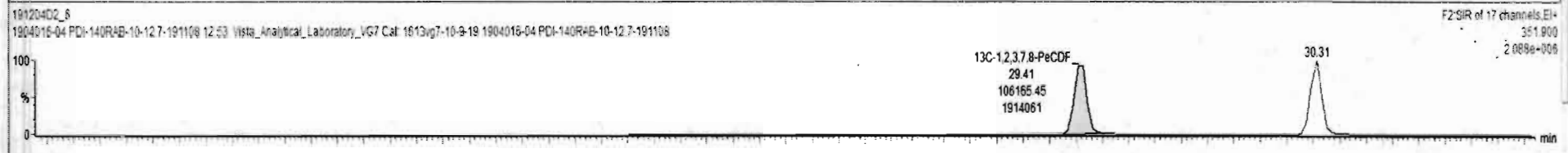
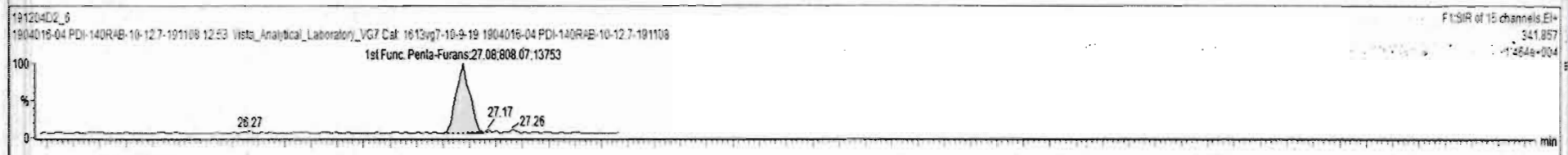
DPE6

191204D2_6
1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-04 PDI-140RAB-10-12.7-191108



#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins					10.086	25.58		0.000		NO			0.141	
40	Total Penta-Dioxins					10.086	30.00		0.000		NO			0.0957	
41	Total Hexa-Dioxins					10.086	33.80		0.000		NO	4.811		0.383	5.234
42	Total Hepta-Dioxins					10.086	37.75		0.000		NO	44.60		0.578	44.60
43	Total Tetra-Furans					10.086	24.00		0.000		NO	0.0000		0.0890	0.5124
44	1st Func. Penta-Furans					10.086	27.63		0.000		NO	2.558		0.0768	2.558
45	Total Penta-Furans					10.086	30.00		0.000		NO	2.830		0.130	3.150
46	Total Hexa-Furans					10.086	33.00		0.000		NO	3.693		0.171	4.584
47	Total Hepta-Furans					10.086	37.24		0.000		NO	1.910		0.458	4.474

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.	
1	44	1st Func. Penta-Furans	27.63	27.08	1.217e3	8.081e2	1.550	1.51	NO	2.5581	2.5581



Vista Analytical Laboratory

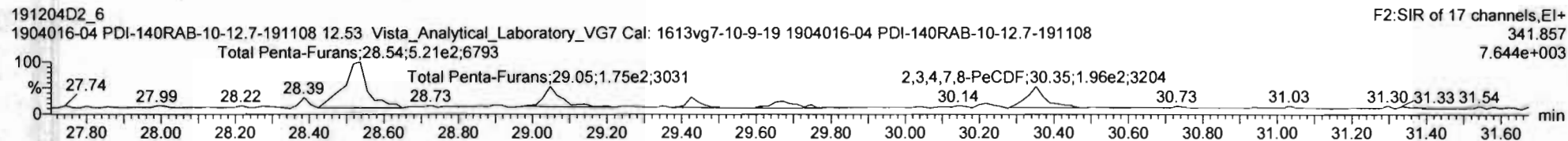
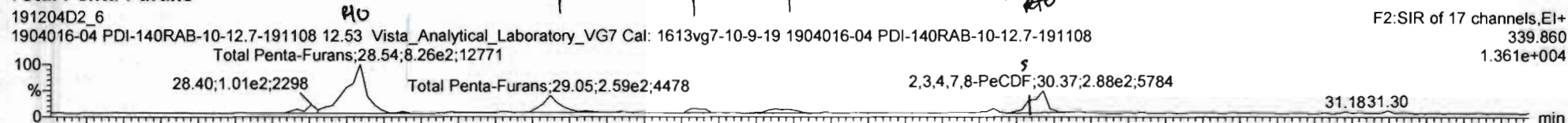
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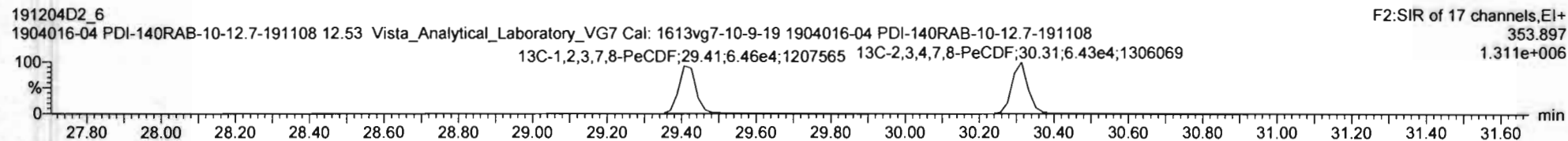
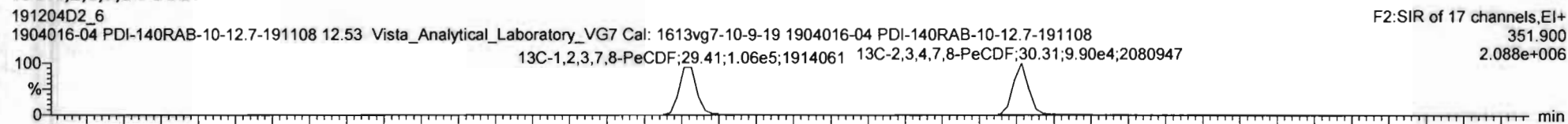
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Name: 191204D2_6, Date: 5-DEC-2019, Time: 11:33:42, ID: 1904016-04 PDI-140RAB-10-12.7-191108, Description: 1904016-04 PDI-140RAB-10-12.7-191108 12.53 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

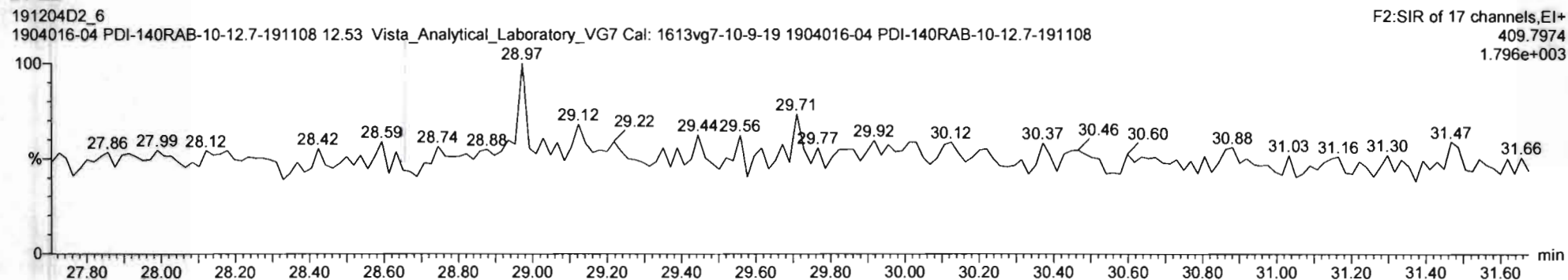
Total Penta-Furans



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



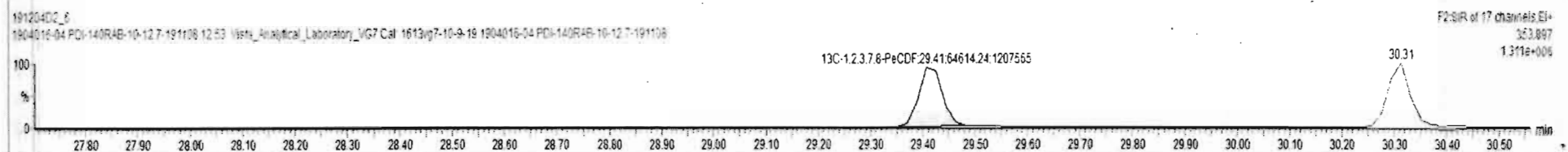
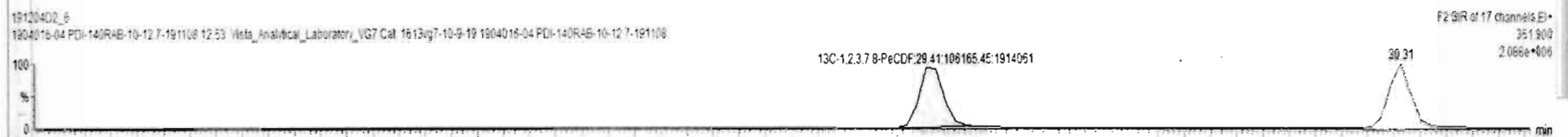
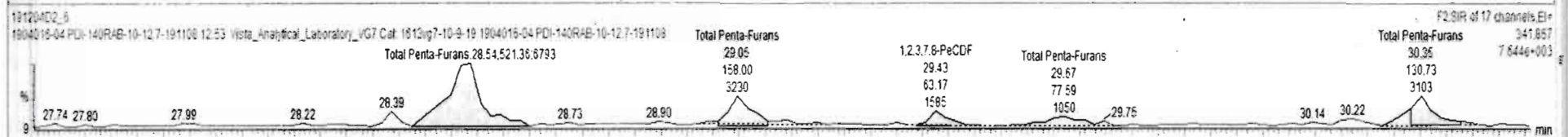
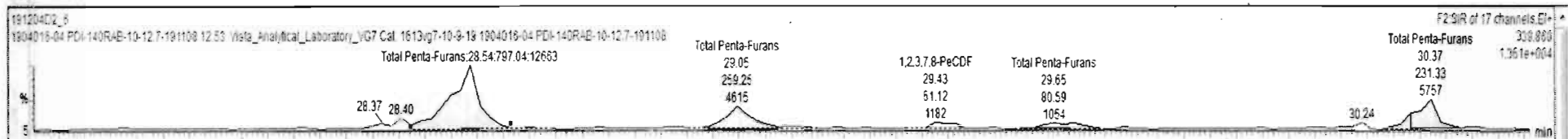
DPE2



191204D2_6 - 1904016-04 PDI-140RAB-10-12-7-191108 - 1904016-04 PDI-140RAB-10-12-7-191108 12:53 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

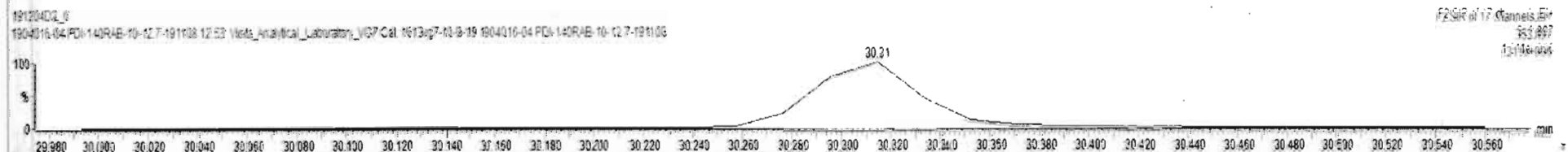
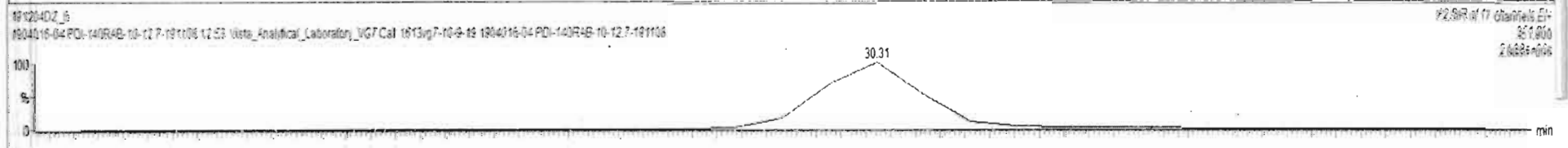
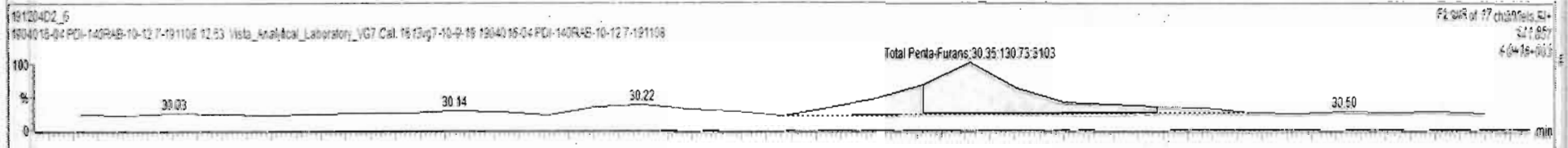
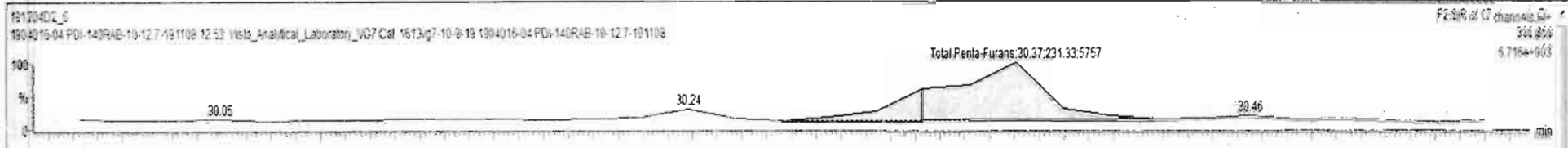
#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	1.02e5	1.02e5	36	0.78	NO	1.000	10.086	25.50	25.51	1.000	1.000	NO	198.3	100	0.632	
37	13C-1,2,3,4-TCDF	1.68e5	1.68e5	37	0.82	NO	1.000	10.086	24.06	24.06	1.000	1.000	NO	198.3	100	0.616	
38	13C-1,2,3,4,6,8-HxCDF	1.10e5	1.10e5	38	0.51	NO	1.000	10.086	33.42	33.42	1.000	1.000	NO	198.3	100	1.02	
39	Total Tetra-Dioxins		1.12e5				0.901	10.086	25.50			0.000	NO			0.141	
40	Total Penta-Dioxins		1.01e5				0.872	10.086	30.00			0.000	NO	0.0000		0.0957	0.4404
41	Total Hexa-Dioxins		0.00e0				0.976	10.086	33.80			0.000	NO	4.811		0.383	5.234
42	Total Hepta-Dioxins		6.62e4				0.989	10.086	37.75			0.000	NO	44.86		0.578	44.60
43	Total Tetra-Furans		1.65e5				0.943	10.086	24.00			0.000	NO	0.0900		0.0890	0.5124
44	1st Func. Penta-Furans		0.00e0				0.940	10.086	27.83			0.000	NO	2.558		0.0758	2.558
45	Total Penta-Furans		0.00e0				0.940	10.086	30.00			0.000	NO	2.322		0.130	3.068
46	Total Hexa-Furans		0.00e0				1.078	10.086	33.00			0.000	NO	3.559		0.171	4.342
47	Total Hepta-Furans		0.00e0				1.135	10.086	37.75			0.000	NO	5.741		0.459	5.741

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	30.00	28.54	7.970e2	5.214e2	1.550	1.53	NO	1.8657	1.8657
2	45 Total Penta-Furans	30.00	29.05	2.582e2	1.588e2	1.550	1.84	NO	0.52717	0.52717
3	9 1,2,3,7,8-PeCDF	29.43	29.43	6.112e1	6.317e1	1.550	0.97	YES	0.12156	0.00000
4	45 Total Penta-Furans	30.00	29.65	8.059e1	7.759e1	1.550	1.04	YES	0.16752	0.00000
5	10 2,3,4,7,8-PeCDF	30.34	30.33	6.162e1	4.598e1	1.550	1.34	NO	0.12875	0.12875
6	45 Total Penta-Furans	30.00	30.37	2.313e2	1.307e2	1.550	1.77	NO	0.45744	0.00000



#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wVol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	1.02e5	1.02e5	36	0.76	NO	1.000	10.066	25.50	25.51	1.000	1.000	NO	198.3	100	0.632	
37	13C-1,2,3,4-TCDF	1.68e5	1.68e5	37	0.82	NO	1.000	10.066	24.06	24.06	1.000	1.000	NO	198.3	100	0.618	
38	13C-1,2,3,4,6,9-HxCDF	1.10e5	1.10e5	38	0.51	NO	1.000	10.066	33.42	33.42	1.000	1.000	NO	198.3	100	1.02	
39	Total Tetra-Dioxins		1.12e5				0.901	10.066	25.50			0.000	NO			0.141	
40	Total Penta-Dioxins		1.01e5				0.872	10.066	30.00			0.000	NO	0.0000		0.0957	0.4454
41	Total Hexa-Dioxins		0.00e0				0.976	10.066	33.80			0.000	NO	4.011		0.383	5.234
42	Total Hepta-Dioxins		6.82e4				0.989	10.066	37.75			0.000	NO	44.60		0.576	44.60
43	Total Tetra-Furans		1.65e5				0.943	10.066	24.00			0.000	NO	0.0000		0.0890	0.5124
44	1st Func. Penta-Furans		0.00e0				0.940	10.066	27.63			0.000	NO	2.555		0.0798	2.555
45	Total Penta-Furans		0.00e0				0.940	10.066	30.00			0.000	NO	2.322		0.130	3.068
46	Total Hexa-Furans		0.00e0				1.078	10.066	33.00			0.000	NO	3.559		0.171	4.342
47	Total Hepta-Furans		0.00e0				1.135	10.066	37.75			0.000	NO	5.741		0.459	5.741

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	30.00	28.54	7.970e2	5.214e2	1.550	1.52	NO	1.6657	1.6657
2	Total Penta-Furans	30.00	29.05	2.592e2	1.580e2	1.550	1.64	NO	0.52717	0.52717
3	1,2,3,7,8-PeCDF	29.43	29.43	6.112e1	6.317e1	1.550	0.97	YES	0.12156	0.00000
4	Total Penta-Furans	30.00	29.65	8.059e1	7.759e1	1.550	1.04	YES	0.16752	0.00000
5	1,2,3,4,7,8-PeCDF	30.34	30.33	6.162e1	4.550e1	1.550	1.34	NO	0.12875	0.12875
6	Total Penta-Furans	30.00	30.37	2.313e2	1.307e2	1.550	1.77	NO	0.45744	0.00000



Vista Analytical Laboratory

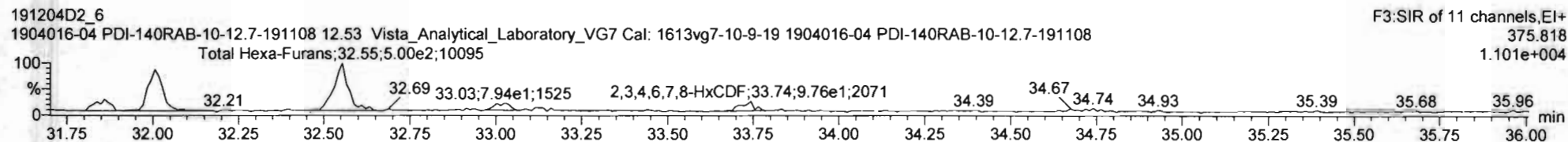
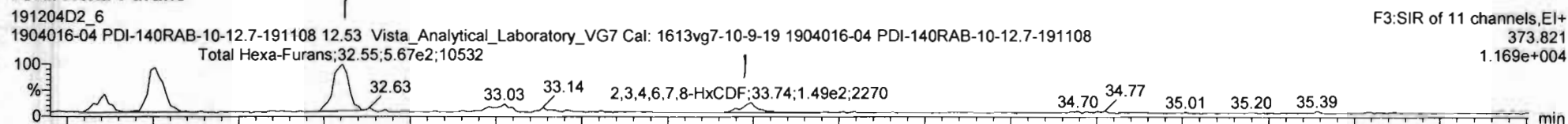
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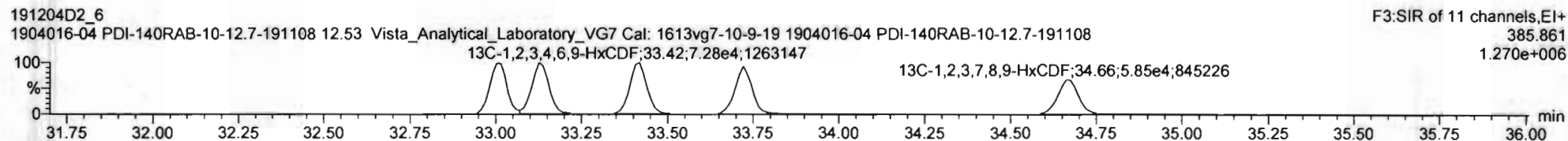
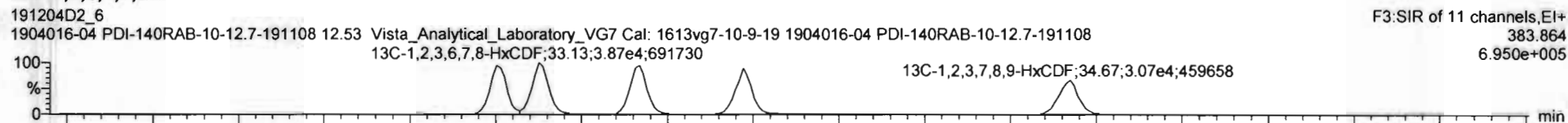
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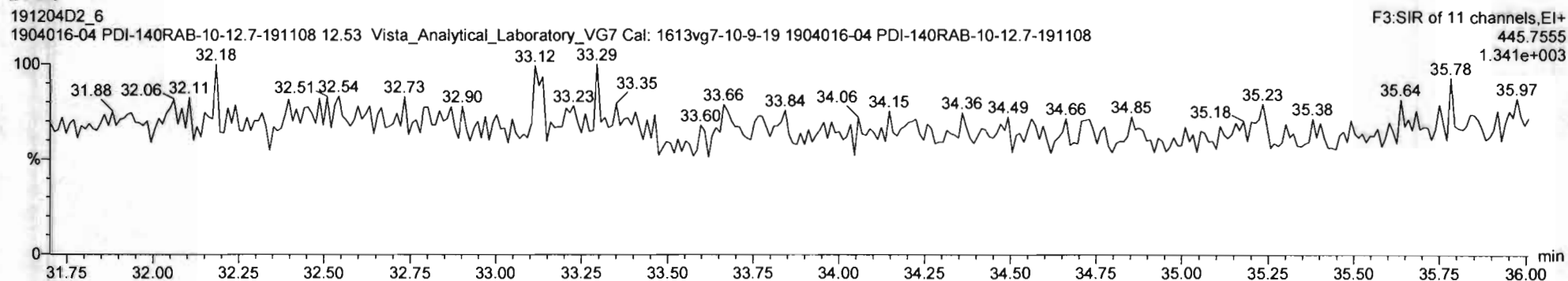
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13C-1,2,3,4,7,8-HxCDF



DPE3

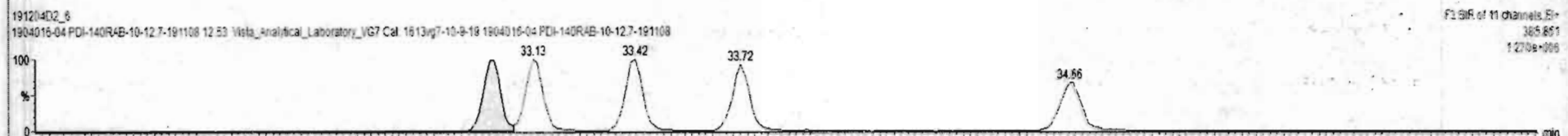
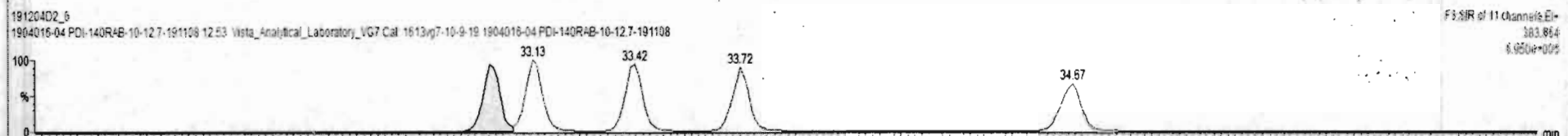
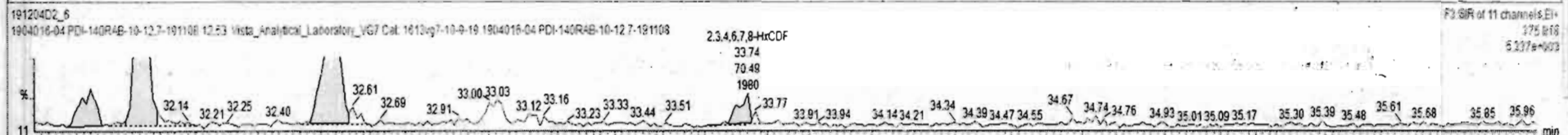
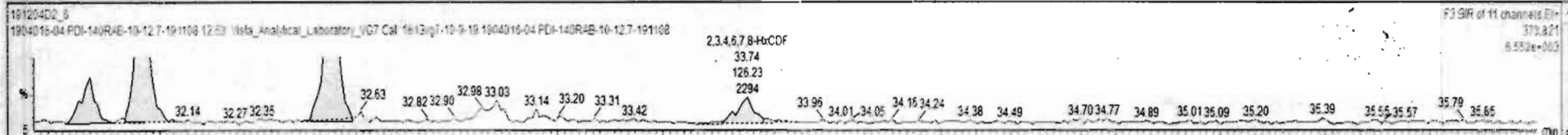




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#	Name	Resp	RA	nly	RRF	wVol	Pred RT	RT	Pred.R.	RRT	RRT fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins					10.086	25.50		0.000		NO			0.141	
40	Total Penta-Dioxins					10.086	30.30		0.000		NO			0.0957	
41	Total Hexa-Dioxins					10.086	33.00		0.000		NO	4.811	0.383	5.234	
42	Total Hepta-Dioxins					10.086	37.75		0.000		NO	44.60	0.578	44.60	
43	Total Tetra-Furans					10.086	24.00		0.000		NO	0.0000	0.0890	0.5124	
44	1st Func. Penta-Furans					10.086	27.63		0.000		NO	2.558	0.0768	2.558	
45	Total Penta-Furans					10.086	30.30		0.000		NO	2.782	0.130	3.071	
46	Total Hexa-Furans					10.086	33.00		0.000		NO	3.559	0.171	4.342	
47	Total Hepta-Furans					10.086	37.75		0.000		NO	1.910	0.456	6.242	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 ^o Ratio (Pred)	RA	nly	EMPC	Conc.
1	2,3,4,6,7,8-HxCDF	33.75	33.74	1.262e2	7.049e1	1.240	1.75	YES	0.28138	0.00000
2	Total Hexa-Furans	33.00	31.66	1.919e2	1.248e2	1.240	1.54	YES	0.50221	0.00000
3	Total Hexa-Furans	33.00	32.01	5.252e2	4.058e2	1.240	1.29	NO	1.6712	1.6712
4	Total Hexa-Furans	33.00	32.55	5.919e2	4.571e2	1.240	1.29	NO	1.8674	1.8674



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191204D2_6 NUM

Vista Analytical Laboratory

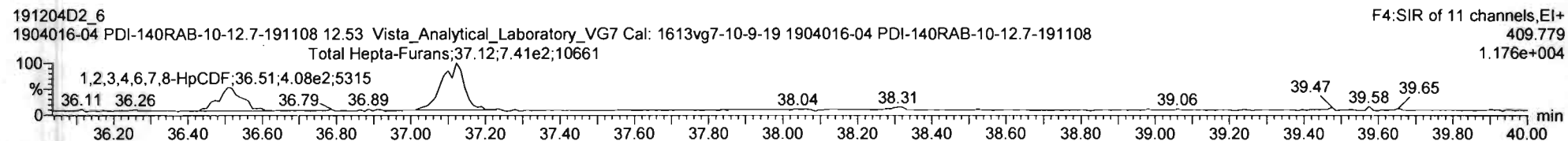
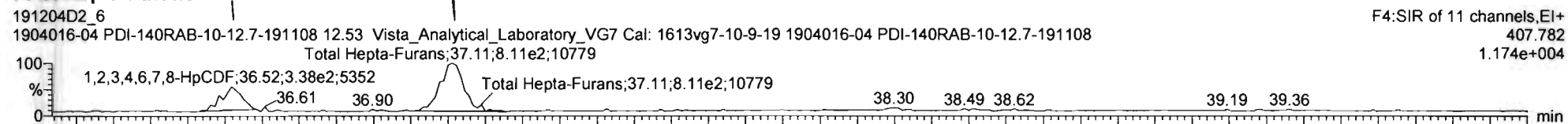
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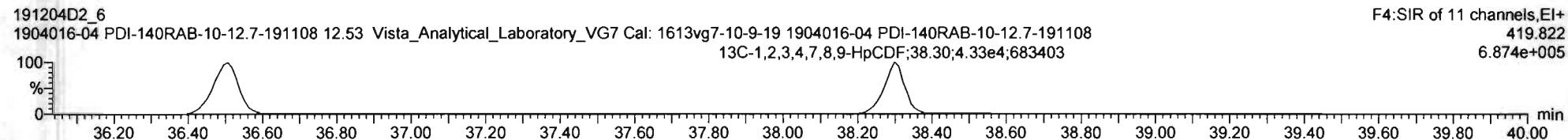
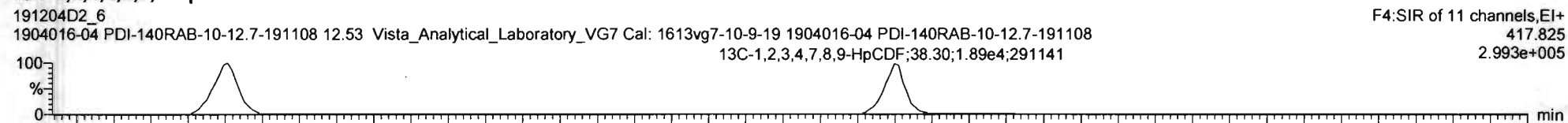
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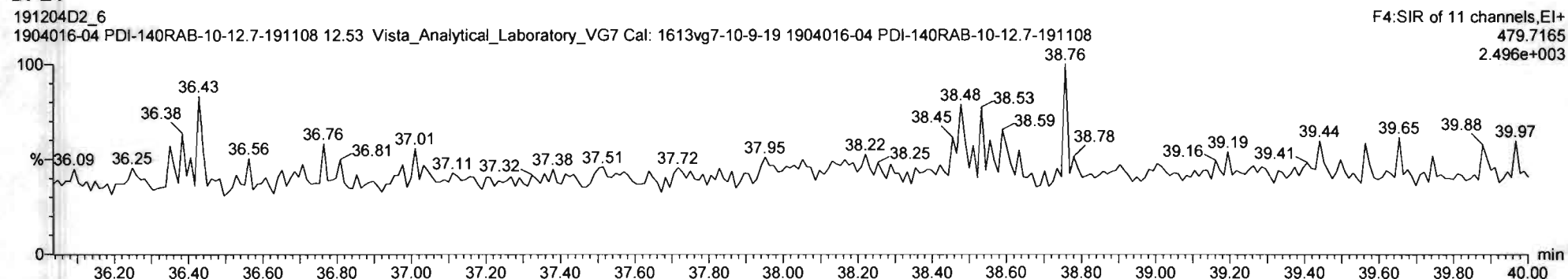
Total Hepta-Furans



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



DPE4

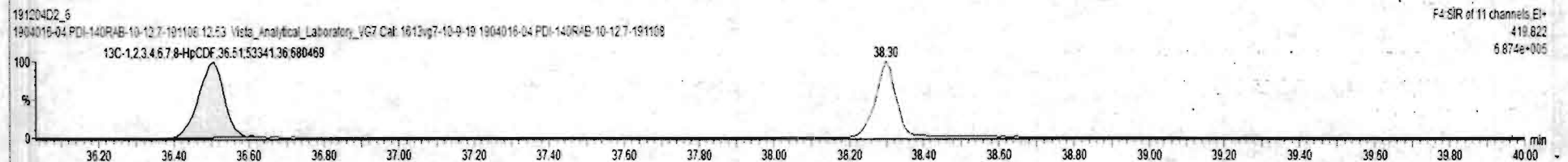
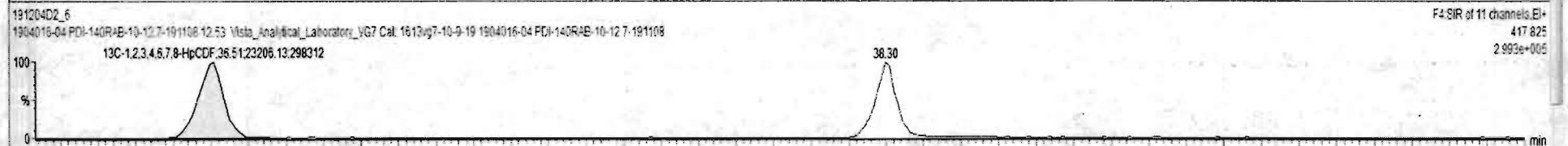
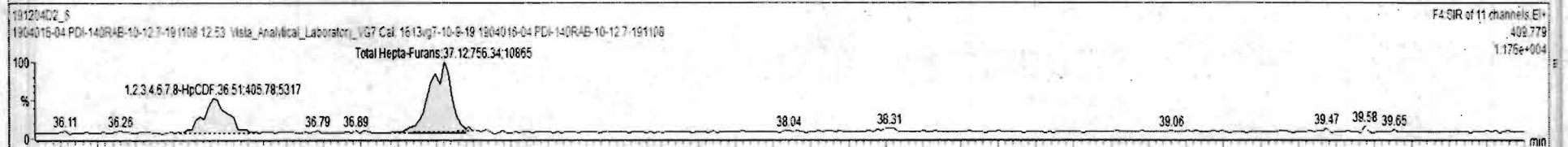
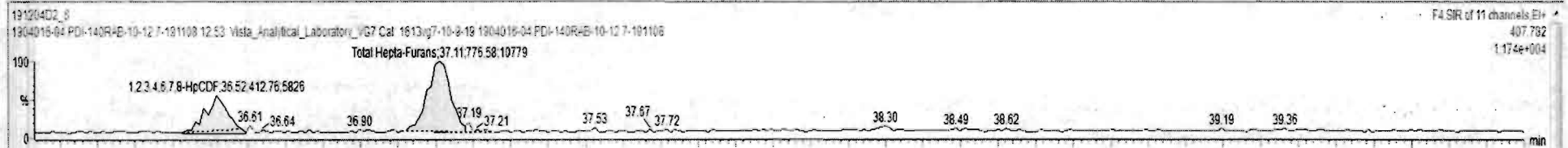




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#	Name	Resp	RA	nly	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins						10.086	25.50	0.000		NO			0.141	
40	Total Penta-Dioxins						10.086	30.00	0.000		NO			0.0857	
41	Total Hexa-Dioxins						10.086	33.80	0.000		NO	4.811		0.383	5.234
42	Total Hepta-Dioxins						10.086	37.75	0.000		NO	44.60		0.578	44.60
43	Total Tetra-Furans						10.086	24.00	0.000		NO	0.0000		0.8890	0.5124
44	1st Func. Penta-Furans						10.086	27.63	0.000		NO	2.558		0.0768	2.558
45	Total Penta-Furans						10.086	30.00	0.000		NO	2.782		0.130	3.071
46	Total Hexa-Furans						10.086	33.00	0.000		NO	3.559		0.171	4.342
47	Total Hepta-Furans						10.086	37.75	0.000		NO	5.741		0.458	5.741

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.54	36.52	4.128e2	4.058e2	1.040	1.02	NO	1.8805	1.8805
2	Total Hepta-Furans	37.75	37.11	7.756e2	7.563e2	1.040	1.03	NO	3.8605	3.8605



Vista Analytical Laboratory

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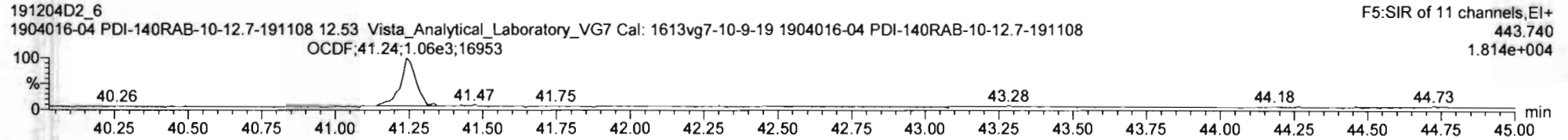
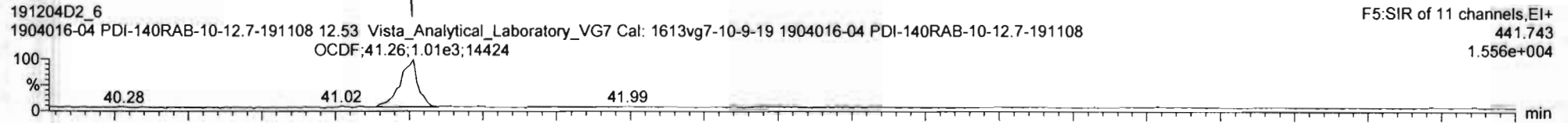
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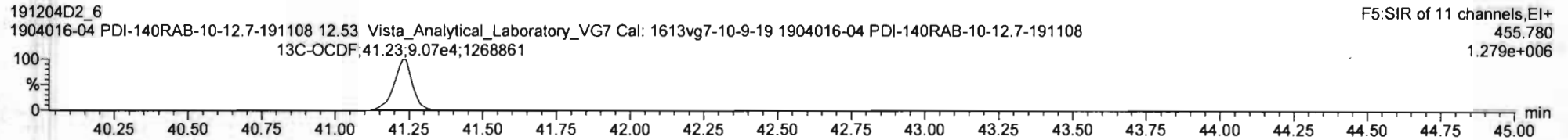
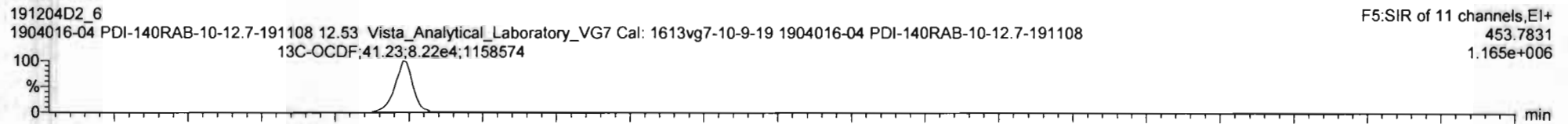
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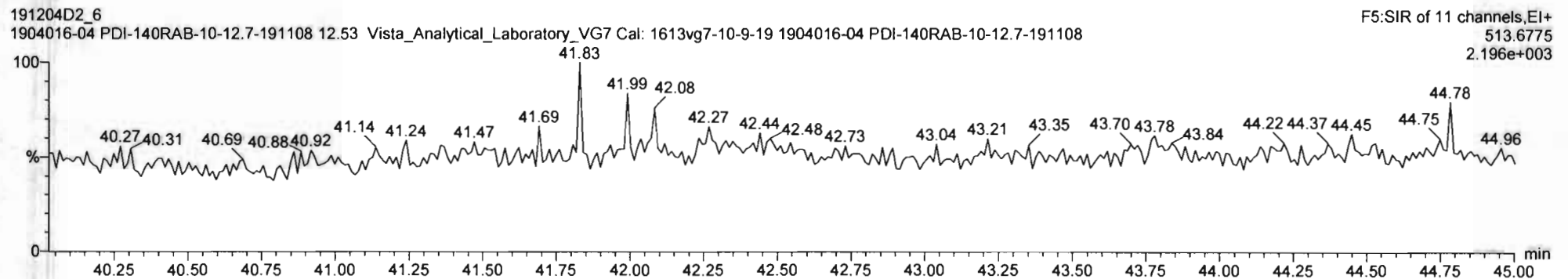
OCDF



13C-OCDF



DPE5

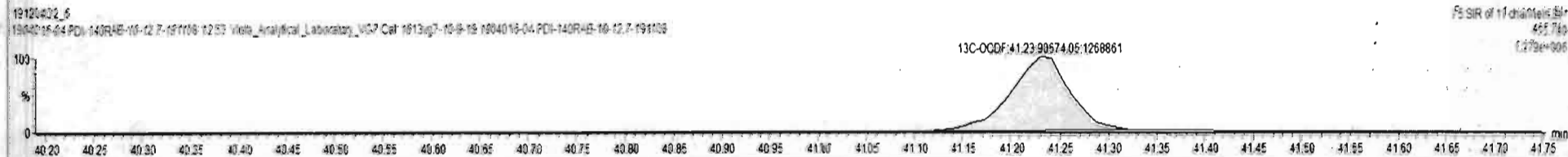
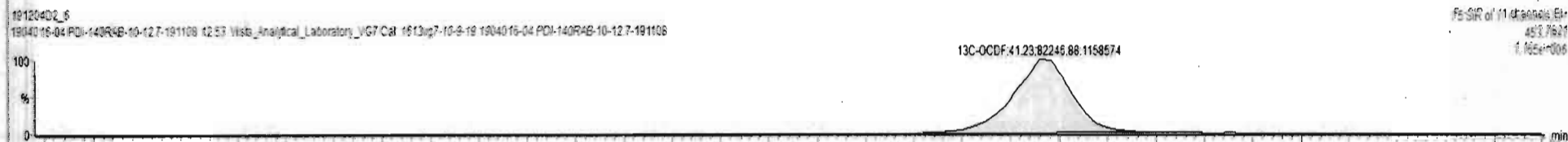
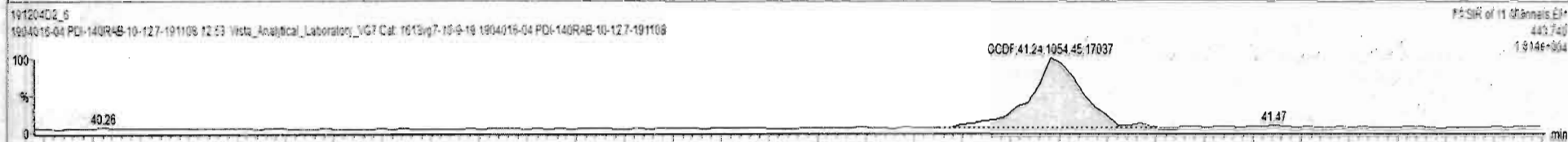
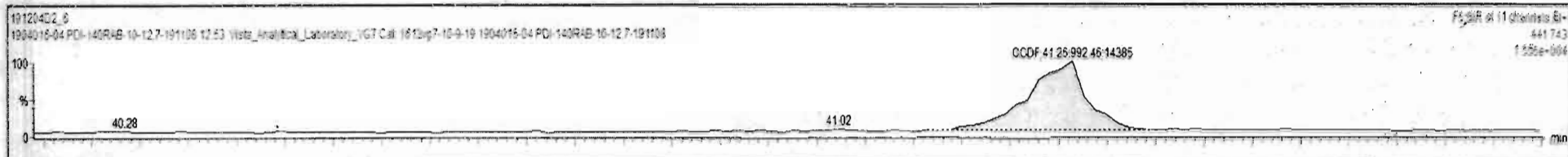




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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R ₁	RRT	RRT Filt	Conc	%Rec	DL	EMPC
13	1,2,3,4,6,7,8-HxCDF	1.97e2	1.79	YES		10.086	33.75	33.74	1.001	1.001	NO	0.3506		0.159	0.2814
14	1,2,3,7,8,9-HxCDF					10.086	34.67		1.000		NO			0.227	
15	1,2,3,4,6,7,8-HxCDF	8.19e2	1.02	NO		10.086	36.54	36.52	1.001	1.000	NO	1.680		0.457	1.880
16	1,2,3,4,7,8,9-HxCDF					10.086	38.30		1.000		NO			0.413	
17	OCDF	2.05e3	0.94	NO		10.086	41.23	41.26	1.000	1.001	NO	4.956		0.238	4.956
18	1,3C-2,3,7,8-TCDD	1.12e5	0.50	NO		10.086	26.04	26.07	1.021	1.022	NO	199.8	101	0.577	
19	1,3C-1,2,3,7,8-PeCDD	1.01e5	0.62	NO		10.086	30.27	30.60	1.187	1.200	NO	224.2	113	0.433	
20	1,3C-1,2,3,4,7,8-HxCDD	7.69e4	1.28	NO		10.086	33.86	33.89	1.014	1.014	NO	215.3	109	0.863	
21	1,3C-1,2,3,6,7,8-HxCDD	8.09e4	1.38	NO		10.086	34.00	34.00	1.017	1.017	NO	170.0	84.7	0.863	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Prec)	RA	n/y	EMPC	Conc
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Vista Analytical Laboratory

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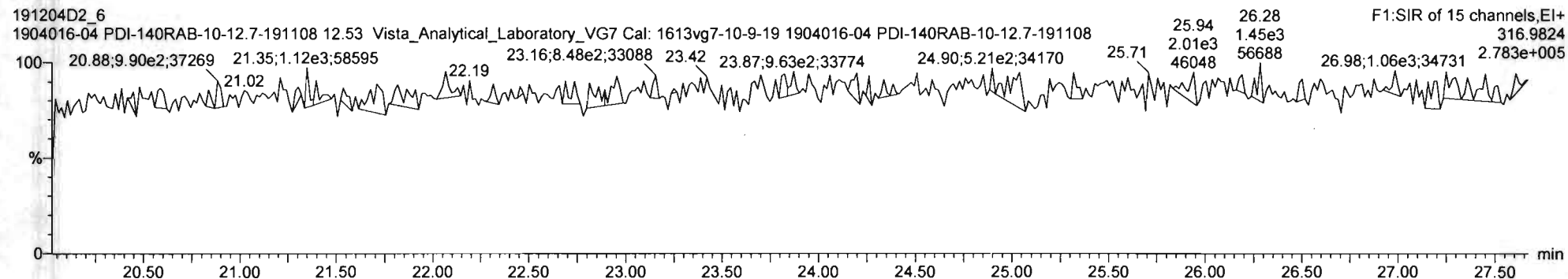
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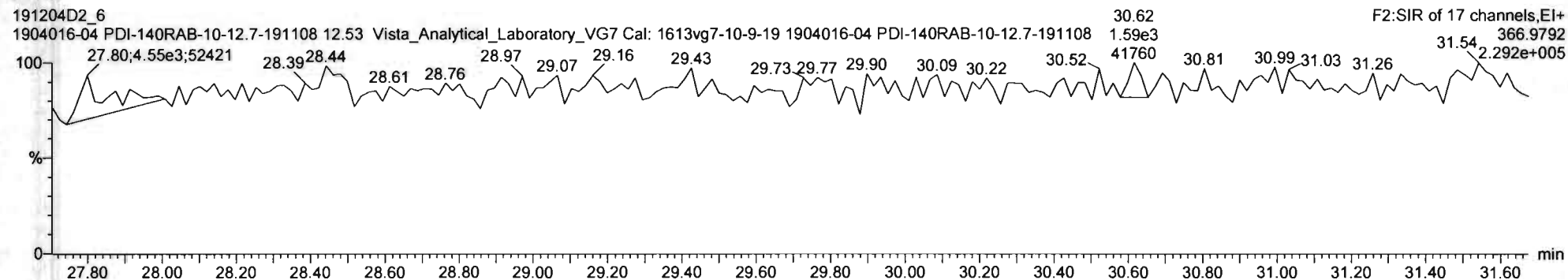
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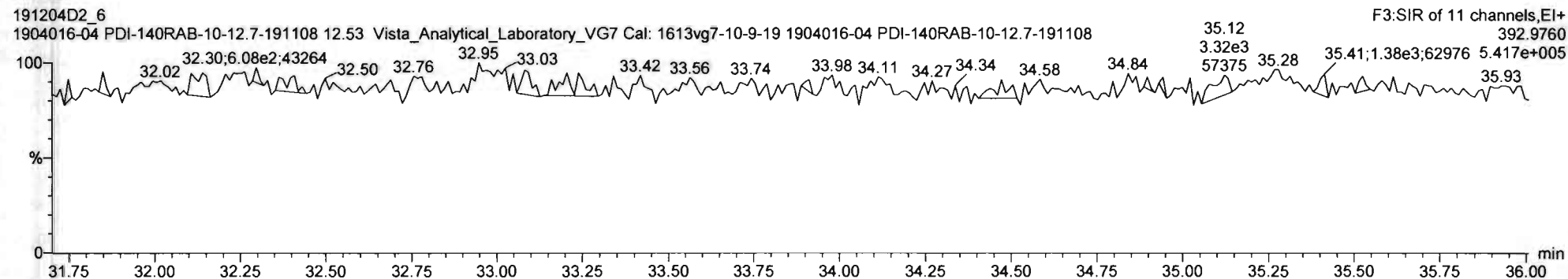
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PFK2



PFK3



Vista Analytical Laboratory

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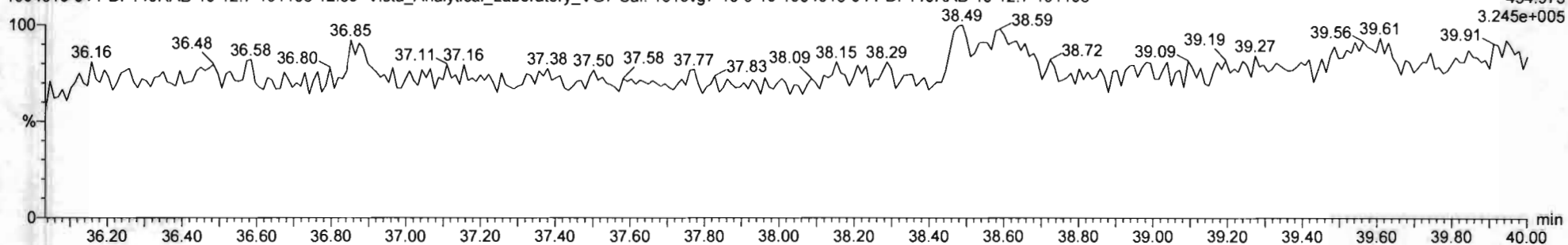
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3.245e+005



PFK5

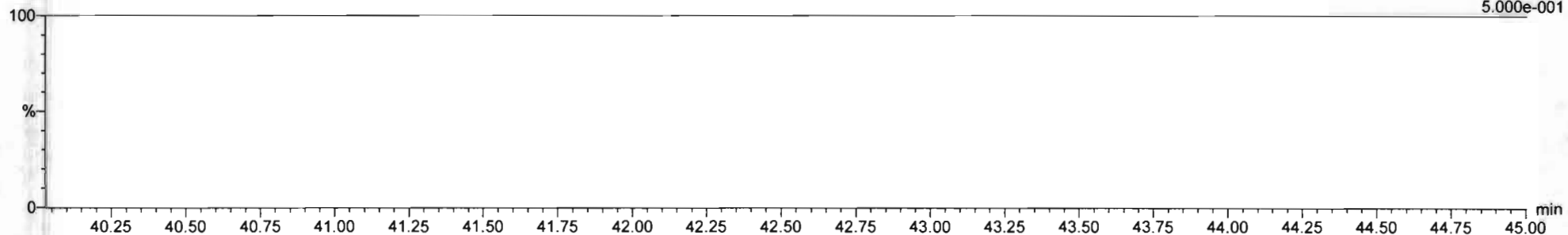
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Vista Analytical Laboratory

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Last Altered: Thursday, December 19, 2019 10:46:42 Pacific Standard Time

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EL 12/19/19

C. 12/20/19

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Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 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		1.00e5	9.9983	0.905			1.001		26.09					0.294
2	2 1,2,3,7,8-PeCDD		9.21e4	9.9983	0.903			1.001		30.61					0.249
3	3 1,2,3,4,7,8-HxCDD		6.60e4	9.9983	1.101			1.000		33.90					0.449
4	4 1,2,3,6,7,8-HxCDD	7.60e2	7.44e4	9.9983	0.939	1.317	NO	1.000	1.000	34.00	34.00	2.1775		2.18	0.494
5	5 1,2,3,7,8,9-HxCDD	3.92e2	7.59e4	9.9983	0.961	1.030	YES	1.001	1.000	34.32	34.30	1.0754		0.986	0.499
6	6 1,2,3,4,6,7,8-HpCDD	1.45e4	6.09e4	9.9983	0.979	0.992	NO	1.000	1.000	37.77	37.77	48.730		48.7	0.868
7	7 OCDD	1.45e5	1.22e5	9.9983	0.959	0.880	NO	1.000	1.000	41.02	41.03	496.70		497	0.728
8	8 2,3,7,8-TCDF		1.46e5	9.9983	0.950			1.001		25.31					0.335
9	9 1,2,3,7,8-PeCDF	6.54e2	1.49e5	9.9983	0.960	1.583	NO	1.001	1.001	29.44	29.43	0.91313		0.913	0.150
10	10 2,3,4,7,8-PeCDF	3.66e2	1.49e5	9.9983	1.015	1.729	NO	1.001	1.001	30.32	30.32	0.48275		0.483	0.140
11	11 1,2,3,4,7,8-HxCDF	1.47e3	9.83e4	9.9983	1.177	1.154	NO	1.000	1.001	33.00	33.02	2.5386		2.54	0.245
12	12 1,2,3,6,7,8-HxCDF	6.32e2	9.89e4	9.9983	1.069	1.026	YES	1.000	1.000	33.13	33.13	1.1962		1.09	0.272
13	13 2,3,4,6,7,8-HxCDF	5.50e2	8.82e4	9.9983	1.114	1.090	NO	1.001	1.001	33.75	33.74	1.1194		1.12	0.322
14	14 1,2,3,7,8,9-HxCDF	1.03e2	7.70e4	9.9983	1.062	1.569	YES	1.000	1.001	34.66	34.69	0.25321		0.221	0.442
15	15 1,2,3,4,6,7,8-HpCDF	3.39e3	6.56e4	9.9983	1.128	0.965	NO	1.001	1.000	36.54	36.51	9.1764		9.18	0.477
16	16 1,2,3,4,7,8,9-HpCDF	3.34e2	5.34e4	9.9983	1.280	1.110	NO	1.000	1.001	38.30	38.32	0.97907		0.979	0.412
17	17 OCDF	5.96e3	1.50e5	9.9983	0.947	0.858	NO	1.000	1.000	41.24	41.25	16.771		16.8	0.311
18	18 13C-2,3,7,8-TCDD	1.00e5	8.76e4	9.9983	1.095	0.753	NO	1.021	1.022	26.04	26.06	209.38	104.7		0.711
19	19 13C-1,2,3,7,8-PeCDD	9.21e4	8.76e4	9.9983	0.881	0.634	NO	1.187	1.200	30.26	30.59	238.45	119.2		0.453
20	20 13C-1,2,3,4,7,8-Hx...	6.60e4	9.52e4	9.9983	0.642	1.306	NO	1.014	1.014	33.88	33.89	215.87	107.9		1.01
21	21 13C-1,2,3,6,7,8-Hx...	7.44e4	9.52e4	9.9983	0.856	1.298	NO	1.017	1.017	34.00	34.00	182.71	91.3		0.755
22	22 13C-1,2,3,7,8,9-Hx...	7.59e4	9.52e4	9.9983	0.807	1.285	NO	1.026	1.026	34.29	34.29	197.54	98.8		0.801
23	23 13C-1,2,3,4,6,7,8-H...	6.09e4	9.52e4	9.9983	0.654	1.031	NO	1.126	1.130	37.63	37.76	195.70	97.8		1.54
24	24 13C-OCDD	1.22e5	9.52e4	9.9983	0.580	0.902	NO	1.226	1.228	40.97	41.02	440.65	110.1		0.832
25	25 13C-2,3,7,8-TCDF	1.46e5	1.46e5	9.9983	1.035	0.795	NO	0.992	0.991	25.29	25.28	193.01	96.5		0.616
26	26 13C-1,2,3,7,8-PeCDF	1.49e5	1.45e5	9.9983	0.854	1.526	NO	1.154	1.154	29.42	29.41	239.47	119.7		0.638
27	27 13C-2,3,4,7,8-PeCDF	1.49e5	1.46e5	9.9983	0.847	1.614	NO	1.189	1.188	30.32	30.30	241.78	120.9		0.644
28	28 13C-1,2,3,4,7,8-Hx...	9.83e4	9.52e4	9.9983	0.832	0.505	NO	0.987	0.988	32.99	33.00	248.37	124.2		1.09
29	29 13C-1,2,3,6,7,8-Hx...	9.89e4	9.52e4	9.9983	1.034	0.519	NO	0.991	0.991	33.11	33.12	200.91	100.4		0.874
30	30 13C-2,3,4,6,7,8-Hx...	8.82e4	9.52e4	9.9983	0.953	0.534	NO	1.009	1.009	33.72	33.72	194.46	97.2		0.948
31	31 13C-1,2,3,7,8,9-Hx...	7.70e4	9.52e4	9.9983	0.828	0.524	NO	1.039	1.037	34.71	34.66	195.30	97.6		1.09

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-7.qld

Last Altered: Thursday, December 19, 2019 10:46:42 Pacific Standard Time

Printed: Thursday, December 19, 2019 10:50:37 Pacific Standard Time

Name: 191204D2_7, Date: 5-DEC-2019, Time: 12:21:33, ID: 1904016-05 PDI-141RAB-00-10-191107,
 Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 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...	6.56e4	9.52e4	9.9983	0.757	0.419	NO	1.093	1.092	36.52	36.50	181.83	90.9		1.17
33	33 13C-1,2,3,4,7,8,9-H...	5.34e4	9.52e4	9.9983	0.581	0.413	NO	1.143	1.146	38.20	38.30	192.83	96.4		1.52
34	34 13C-OCDF	1.50e5	9.52e4	9.9983	0.689	0.871	NO	1.233	1.234	41.21	41.24	457.32	114.3		0.988
35	35 37Cl-2,3,7,8-TCDD	4.15e4	8.76e4	9.9983	1.198			1.022	1.023	26.06	26.09	79.112	98.9		0.247
36	36 13C-1,2,3,4-TCDD	8.76e4	8.76e4	9.9983	1.000	0.798	NO	1.000	1.000	25.50	25.50	200.03	100.0		0.778
37	37 13C-1,2,3,4-TCDF	1.46e5	1.46e5	9.9983	1.000	0.824	NO	1.000	1.000	24.06	24.07	200.03	100.0		0.637
38	38 13C-1,2,3,4,6,9-Hx...	9.52e4	9.52e4	9.9983	1.000	0.509	NO	1.000	1.000	33.42	33.41	200.03	100.0		0.904
39	39 Total Tetra-Dioxins		1.00e5	9.9983	0.901			0.000		25.50		0.00000		1.24	0.151
40	40 Total Penta-Dioxins		9.21e4	9.9983	0.872			0.000		30.00		1.7617		2.49	0.258
41	41 Total Hexa-Dioxins		0.00e0	9.9983	0.976			0.000		33.80		6.6200		14.7	0.491
42	42 Total Hepta-Dioxins		6.09e4	9.9983	0.989			0.000		37.75		107.80		108	0.860
43	43 Total Tetra-Furans		1.46e5	9.9983	0.943			0.000		24.00					0.167
44	44 1st Func. Penta-Fur...		0.00e0	9.9983	0.940			0.000		27.63		5.3292		5.33	0.0965
45	45 Total Penta-Furans		0.00e0	9.9983	0.940			0.000		30.00		9.9999		11.7	0.152
46	46 Total Hexa-Furans		0.00e0	9.9983	1.078			0.000		33.00		20.456		22.0	0.320
47	47 Total Hepta-Furans		0.00e0	9.9983	1.135			0.000		37.75		29.070		29.1	0.470

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-7.qld
 Last Altered: Thursday, December 19, 2019 10:46:42 Pacific Standard Time
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Method: U:\VG7.pro\MethDB\1613VG7-12-4-19.mdb 06 Dec 2019 10:27:59

Calibration: 06 Dec 2019 12:20:35

Name: 191204D2_7, Date: 5-DEC-2019, Time: 12:21:33, ID: 1904016-05 PDI-141RAB-00-10-191107,
 Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Tetra-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	39 Total Tetra-Dioxins	YES	23.06	113.119	43156.172	0.000	MM	0.0000	0.50
2	39 Total Tetra-Dioxins	YES	22.68	187.204	43156.172	0.000	bb	0.0000	0.74

Penta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	40 Total Penta-Dioxins	YES	29.41	168.111	35738.703	0.000	MM	0.0000	0.72
2	40 Total Penta-Dioxins	NO	28.55	168.021	35738.703	9.963	MM	1.1424	1.14
3	40 Total Penta-Dioxins	NO	29.91	103.432	35738.703	5.400	MM	0.6192	0.62

Hexa-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	41 Total Hexa-Dioxins	NO	32.37	855.912	40680.358	43.347	MM	4.4425	4.44
2	5 1,2,3,7,8,9-HxCDD	YES	34.30	198.869	42648.707	0.000	MM	0.0000	0.99
3	4 1,2,3,6,7,8-HxCDD	NO	34.00	432.152	42024.660	20.435	MM	2.1775	2.18
4	41 Total Hexa-Dioxins	YES	33.21	1258.195	40680.358	0.000	MM	0.0000	5.58
5	41 Total Hexa-Dioxins	YES	32.93	348.566	40680.358	0.000	MM	0.0000	1.51

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	7238.903	30919.182	477.179	bb	48.7298	48.73
2	42 Total Hepta-Dioxins	NO	36.90	8866.864	30919.182	583.941	bb	59.0714	59.07

Tetra-Furans

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

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-7.qld

Last Altered: Thursday, December 19, 2019 10:46:42 Pacific Standard Time

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Name: 191204D2_7, Date: 5-DEC-2019, Time: 12:21:33, ID: 1904016-05 PDI-141RAB-00-10-191107,
 Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 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	27.09	2305.756	91167.246	50.065	bb	5.3292	5.33

Penta-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	NO	30.32	231.772	92219.367	4.898	MM	0.4828	0.48
2	45 Total Penta-Furans	YES	30.23	253.272	91167.246	0.000	MM	0.0000	0.37
3	45 Total Penta-Furans	NO	29.68	411.672	91167.246	9.225	db	0.9819	0.98
4	9 1,2,3,7,8-PeCDF	NO	29.43	400.851	90115.125	8.768	MM	0.9131	0.91
5	45 Total Penta-Furans	NO	29.26	134.190	91167.246	3.067	MM	0.3264	0.33
6	45 Total Penta-Furans	NO	29.06	725.429	91167.246	15.469	MM	1.6466	1.65
7	45 Total Penta-Furans	NO	28.53	1861.449	91167.246	39.626	MM	4.2181	4.22
8	45 Total Penta-Furans	NO	28.39	479.233	91167.246	10.384	MM	1.1053	1.11
9	45 Total Penta-Furans	YES	30.34	714.245	91167.246	0.000	MM	0.0000	1.35
10	45 Total Penta-Furans	NO	29.09	136.382	91167.246	3.059	MM	0.3256	0.33

Hexa-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	46 Total Hexa-Furans	NO	32.54	2214.889	30993.712	88.792	MM	8.2411	8.24
2	46 Total Hexa-Furans	NO	32.01	1597.337	30993.712	65.773	MM	6.1047	6.10
3	46 Total Hexa-Furans	NO	31.85	520.533	30993.712	20.658	MM	1.9174	1.92
4	46 Total Hexa-Furans	YES	34.72	88.273	30993.712	0.000	MM	0.0000	0.23
5	13 2,3,4,6,7,8-HxCDF	NO	33.74	286.780	30733.387	12.463	MM	1.1194	1.12
6	12 1,2,3,6,7,8-HxCDF	YES	33.13	320.200	33814.758	0.000	MM	0.0000	1.09
7	11 1,2,3,4,7,8-HxCDF	NO	33.02	786.909	32978.922	29.869	MM	2.5386	2.54
8	46 Total Hexa-Furans	NO	32.92	140.971	30993.712	5.762	MM	0.5348	0.53
9	14 1,2,3,7,8,9-HxCDF	YES	34.69	63.157	26447.781	0.000	MM	0.0000	0.22

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-7.qld

Last Altered: Thursday, December 19, 2019 10:46:42 Pacific Standard Time

Printed: Thursday, December 19, 2019 10:50:37 Pacific Standard Time

Name: 191204D2_7, Date: 5-DEC-2019, Time: 12:21:33, ID: 1904016-05 PDI-141RAB-00-10-191107,
 Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Hepta-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	NO	38.32	175.827	15594.717	12.529	bb	0.9791	0.98
2	47 Total Hepta-Furans	NO	37.11	3194.510	17485.957	214.582	MM	18.9141	18.91
3	15 1,2,3,4,6,7,8-HpCDF	NO	36.51	1665.406	19377.197	103.456	bb	9.1764	9.18

Vista Analytical Laboratory

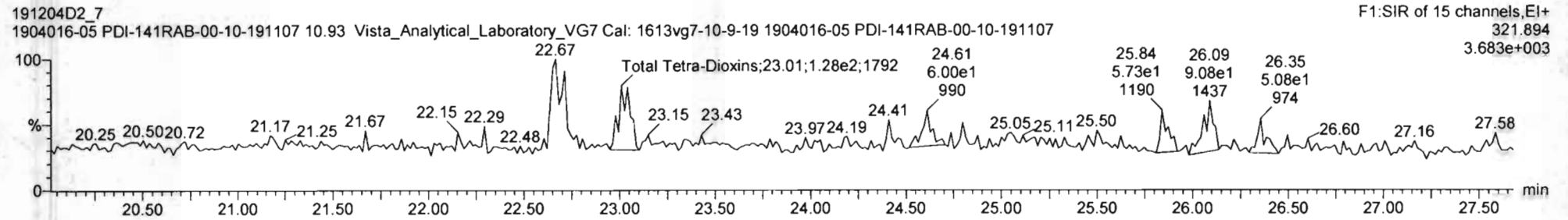
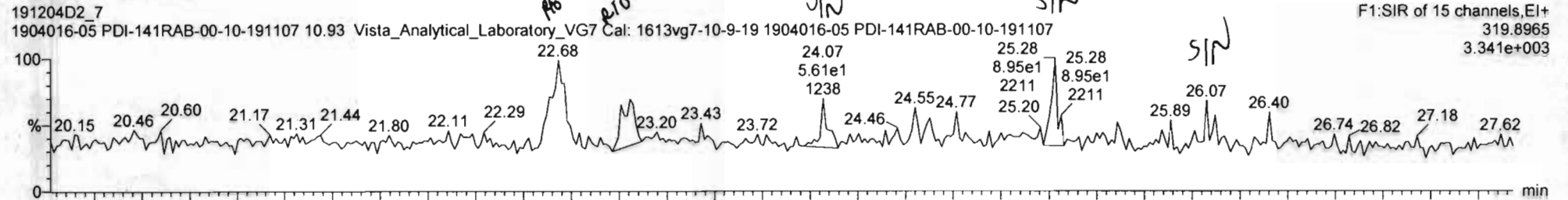
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

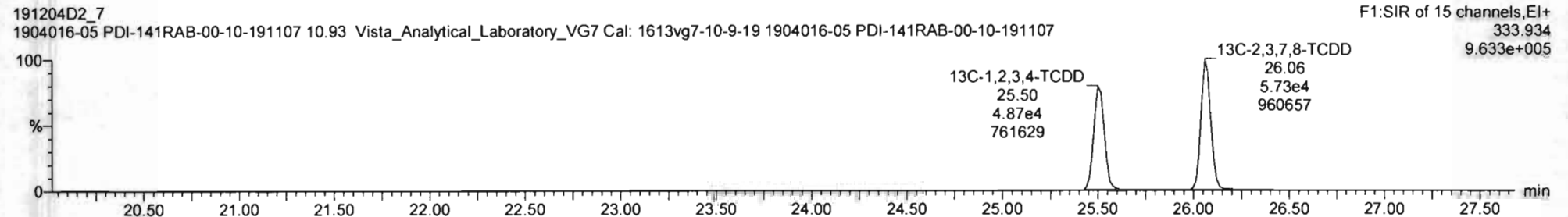
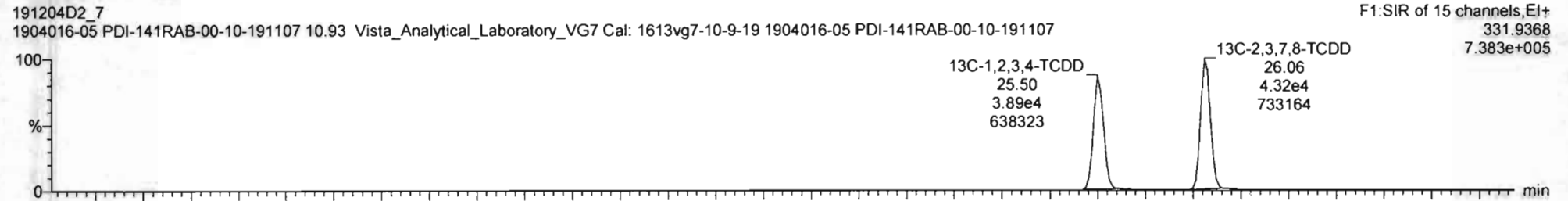
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Total Tetra-Dioxins



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

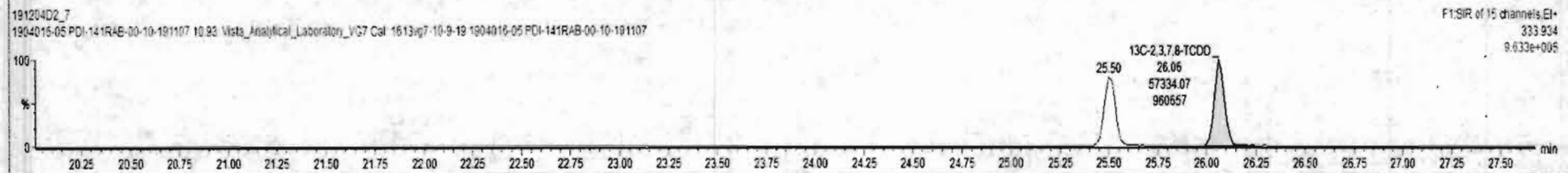
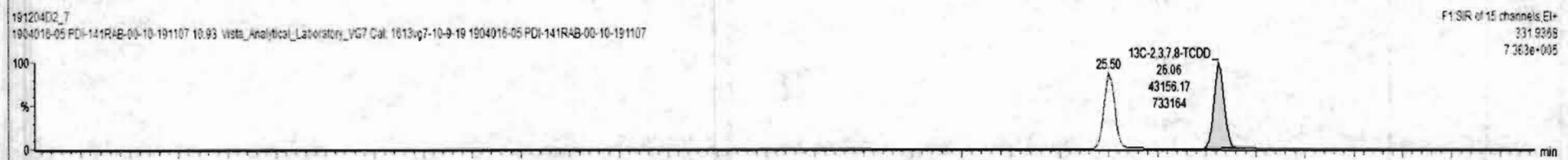
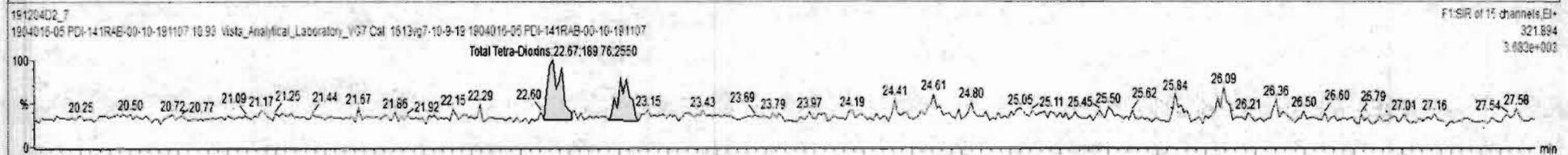
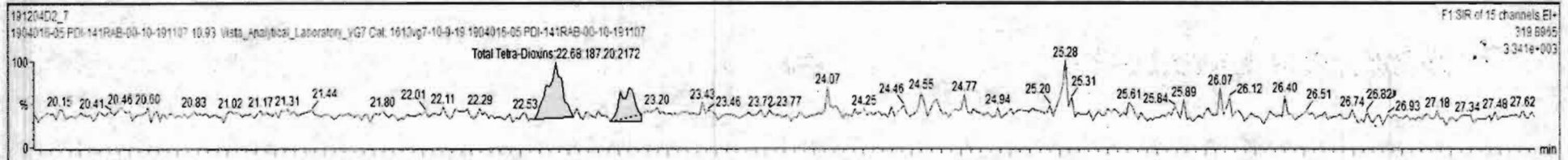




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#	Name	Resp	IS Resp	ES#	RA	n/y	RRF	wtvol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	8.76e4	8.76e4	36	0.80	NO	1.000	9.998	25.50	25.50	1.000	1.000	NO	200.0	100	0.778	
37	13C-1,2,3,4-TCDF	1.46e5	1.46e5	37	0.82	NO	1.000	9.998	24.06	24.07	1.000	1.000	NO	200.0	100	0.637	
38	13C-1,2,3,4,6,8-HxCDF	9.52e4	9.52e4	38	0.51	NO	1.000	9.998	33.42	33.41	1.000	1.000	NO	200.0	100	0.904	
39	Total Tetra-Dioxins	1.00e5					0.901	9.998	25.50			0.000	NO	0.0000		0.151	1.241
40	Total Penta-Dioxins	9.21e4					0.872	9.998	30.00			0.000	NO	1.540		0.258	2.381
41	Total Hexa-Dioxins	0.00e0					0.976	9.998	33.80			0.000	NO	2.182		0.491	11.11

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	25.50	22.68	1.872e2	1.899e2	0.770	0.96	YES	0.74213	0.00000
2	39 Total Tetra-Dioxins	25.50	23.06	1.131e2	1.275e2	0.770	0.88	YES	0.45680	0.00000



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Dataset: Untitled

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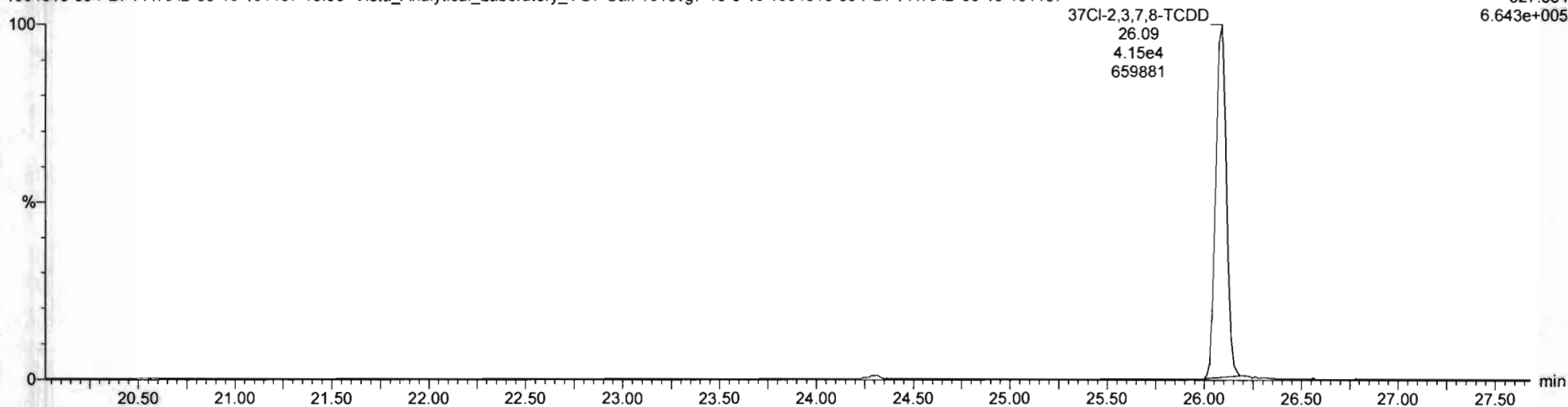
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Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

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

191204D2_7
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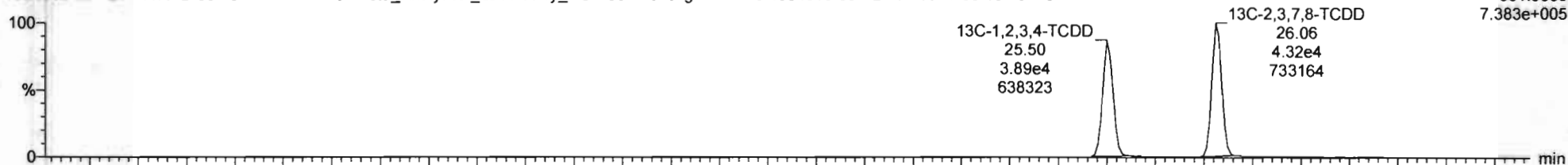
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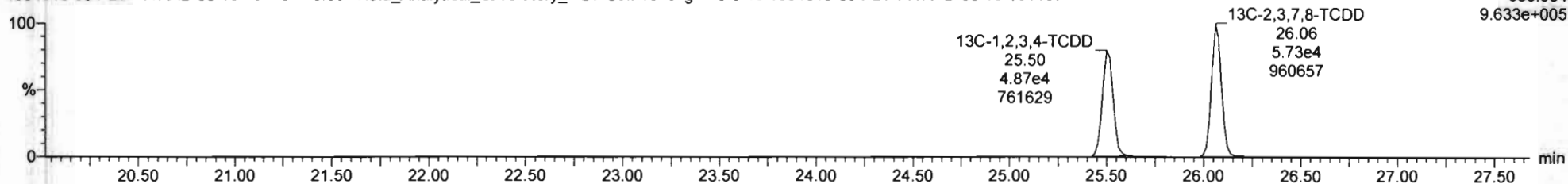
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191204D2_7
1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-05 PDI-141RAB-00-10-191107

F1:SIR of 15 channels,EI+
333.934
9.633e+005



Vista Analytical Laboratory

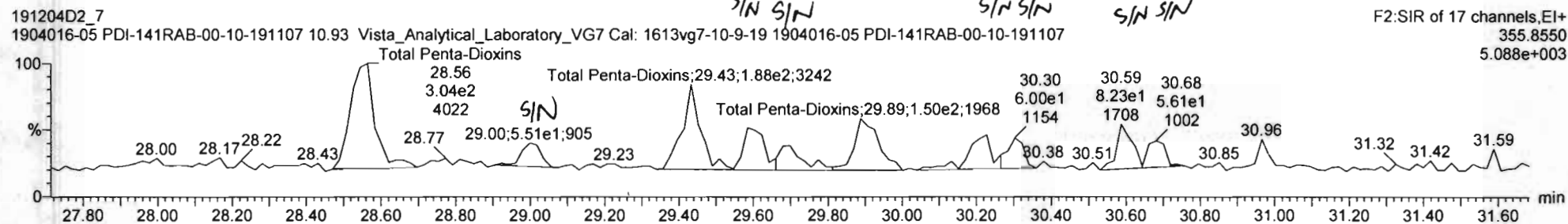
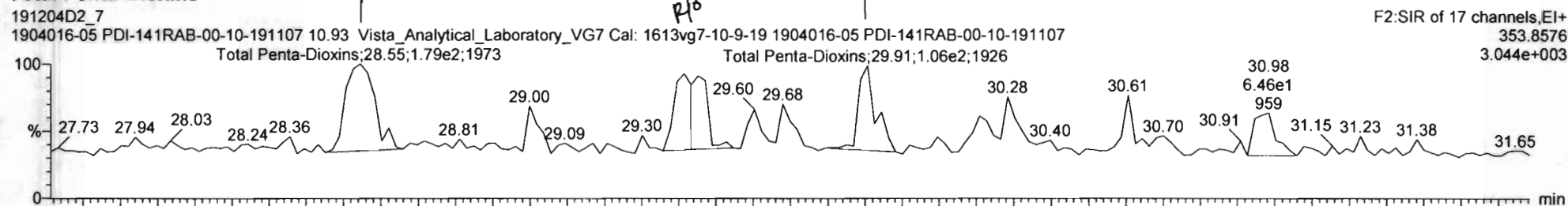
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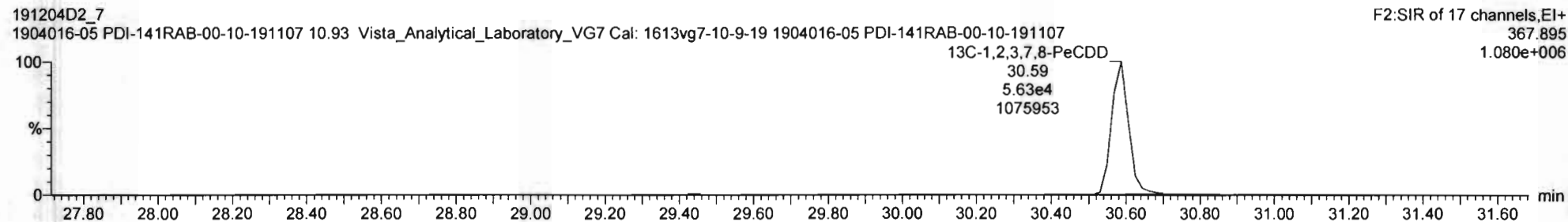
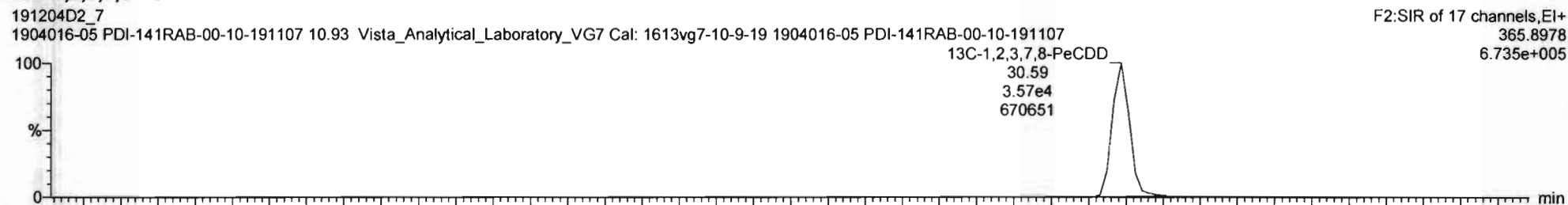
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Total Penta-Dioxins

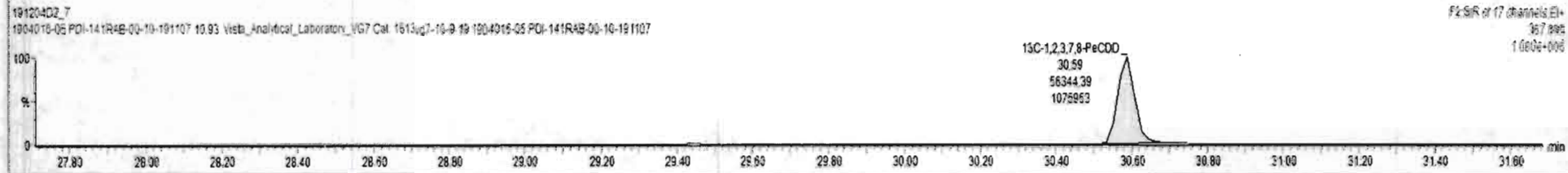
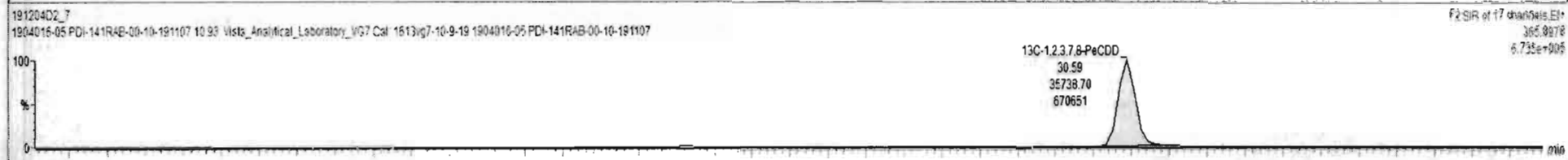
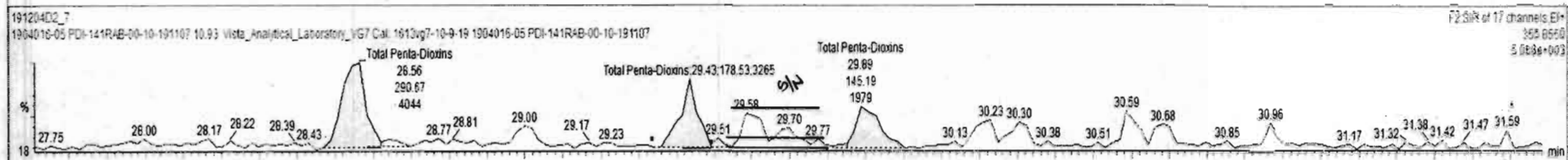
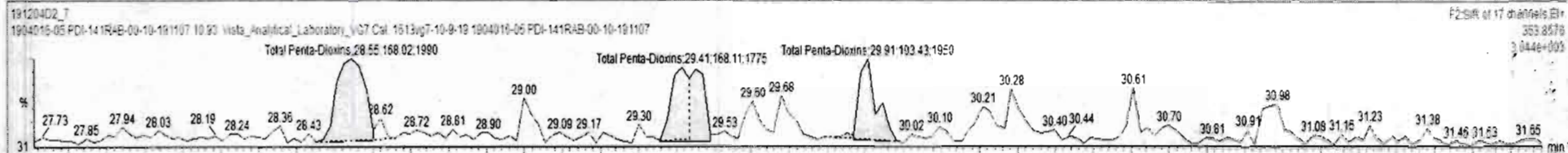


13C-1,2,3,7,8-PeCDD



#	Name	Resp	IS Resp	ISL	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	8.76e4	6.76e4	36	0.80	NO	1.000	9.998	25.50	25.50	1.000	1.000	NO	200.0	100	0.778	
37	13C-1,2,3,4-TCDF	1.48e5	1.48e5	37	0.82	NO	1.000	9.998	24.06	24.07	1.000	1.000	NO	200.0	100	0.637	
38	13C-1,2,3,4,6,9-HxCDF	9.52e4	9.52e4	38	0.51	NO	1.000	9.998	33.42	33.41	1.000	1.000	NO	200.0	100	0.994	
39	Total Tetra-Dioxins	1.00e5					0.901	9.998	25.50			0.000	NO	0.0000		0.151	1.241
40	Total Penta-Dioxins	9.21e4					0.872	9.998	30.00			0.000	NO	1.762		0.258	2.486
41	Total Hexa-Dioxins	0.00e0					0.876	9.998	33.80			0.000	NO	2.182		0.491	11.11

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	30.00	28.55	1.660e2	2.907e2	0.630	0.58	NO	1.1424	1.1424
2	40 Total Penta-Dioxins	30.00	29.41	1.661e2	1.785e2	0.630	0.94	YES	0.72479	0.00000
3	40 Total Penta-Dioxins	30.00	29.91	1.034e2	1.452e2	0.630	0.71	NO	0.61923	0.61923



Vista Analytical Laboratory

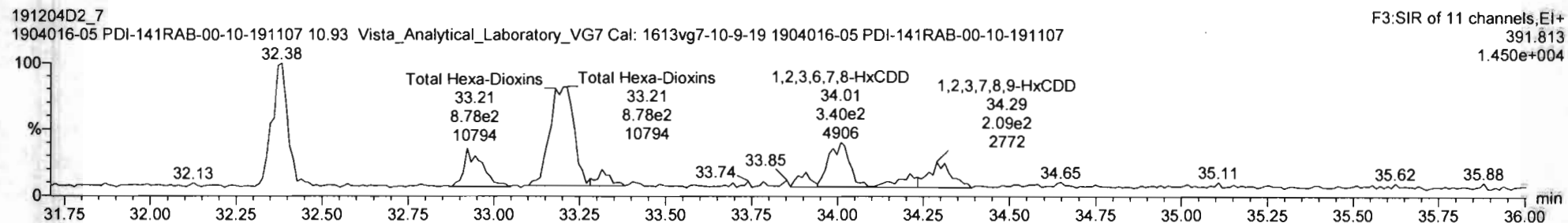
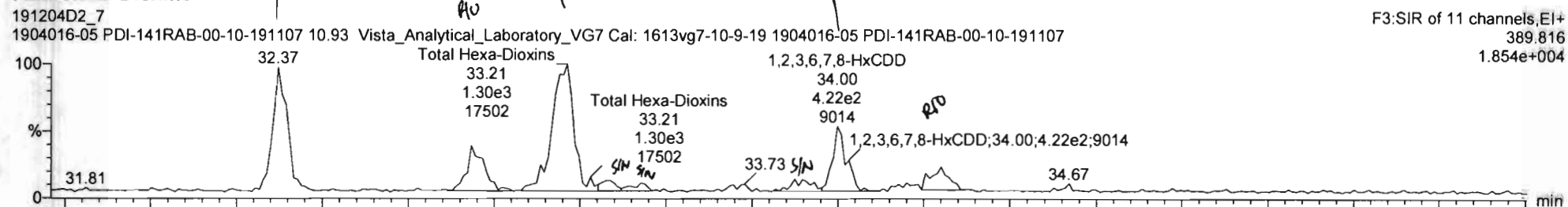
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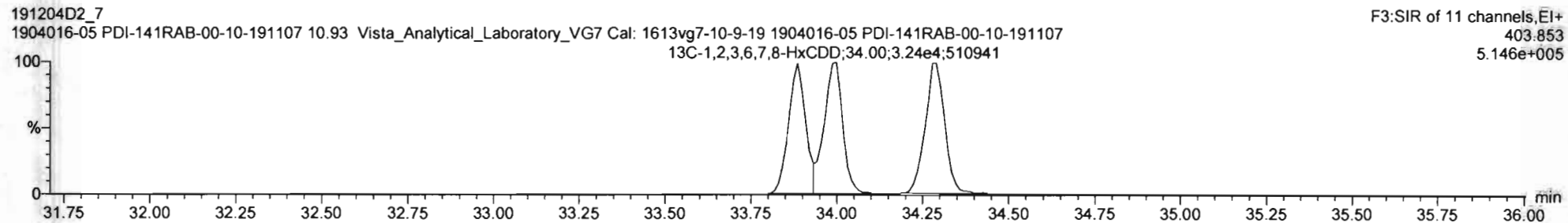
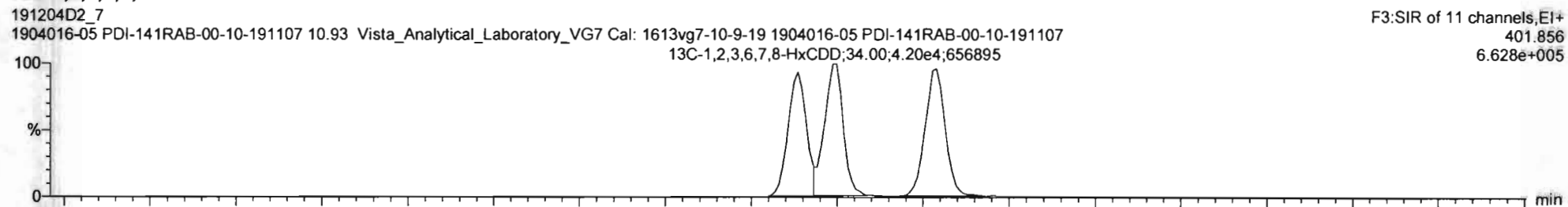
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Name: 191204D2_7, Date: 5-DEC-2019, Time: 12:21:33, ID: 1904016-05 PDI-141RAB-00-10-191107, Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hexa-Dioxins

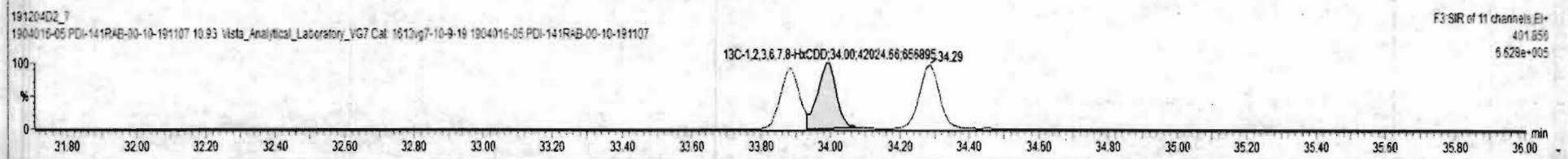
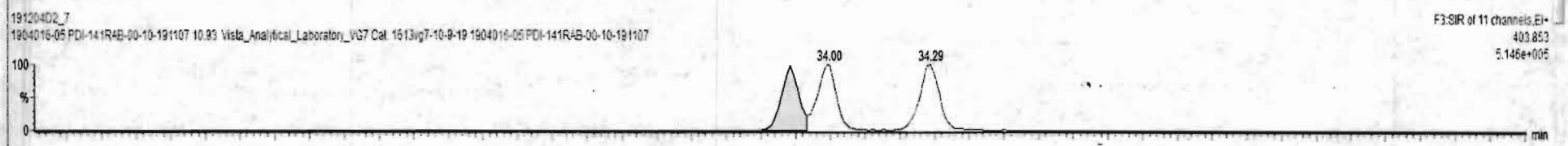
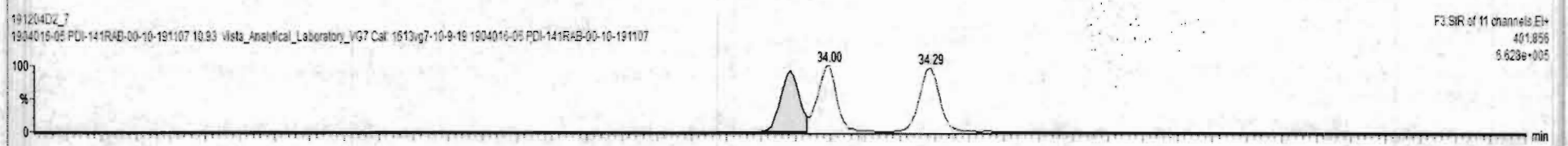
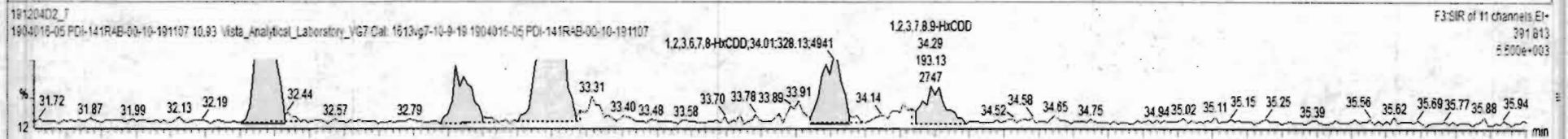
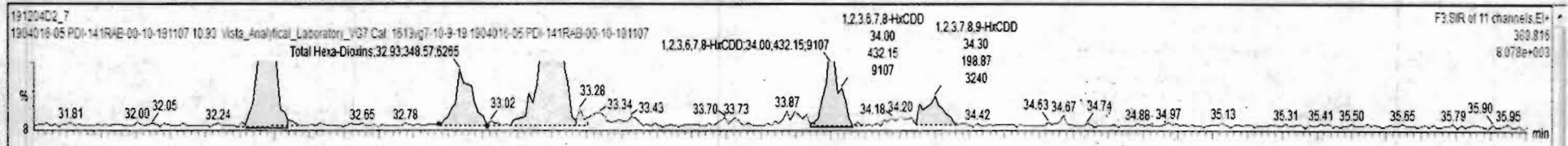


13C-1,2,3,4,7,8-HxCDD



#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtvol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	9.52e4	9.52e4	36	0.51	NO	1.000	9.998	33.42	33.41	1.000	1.000	NO	200.0	100	0.904	
39	Total Tetra-Dioxins		1.00e5				0.901	9.998	25.50			0.000	NO	0.0000		0.151	1.241
40	Total Penta-Dioxins		5.21e4				0.872	9.998	30.00			0.000	NO	1.762		0.258	2.486
41	Total Hexa-Dioxins		0.06e0				0.976	9.998	33.80			0.000	NO	6.620		0.491	14.79
42	Total Hepta-Dioxins		6.08e4				0.989	9.998	37.75			0.000	NO	107.8		0.860	107.8
43	Total Tetra-Furans		1.46e5				0.943	9.998	24.00			0.000	NO	5.527		0.336	6.775

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	33.80	32.37	8.559e2	7.064e2	1.240	1.21	NO	4.4425	4.4425
2	Total Hexa-Dioxins	33.80	32.93	3.488e2	2.378e2	1.240	1.47	YES	1.5149	0.00000
3	Total Hexa-Dioxins	33.60	33.21	1.259e3	6.763e2	1.240	1.44	YES	5.5817	0.00000
4	1,2,3,6,7,8-HxCDD	34.00	34.00	4.322e2	3.281e2	1.240	1.32	NO	2.1775	2.1775
5	1,2,3,7,8,9-HxCDD	34.32	34.30	1.969e2	1.931e2	1.240	1.03	YES	0.96553	0.00000



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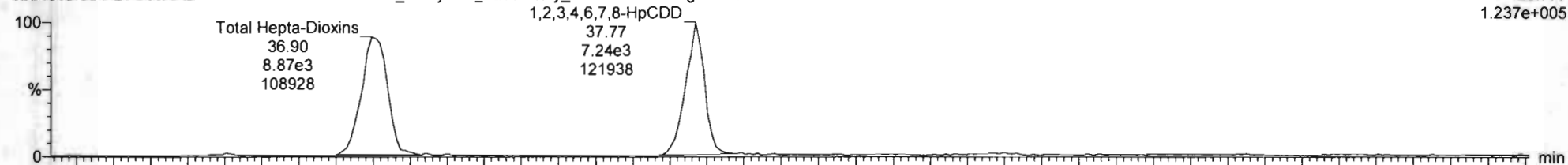
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Name: 191204D2_7, Date: 5-DEC-2019, Time: 12:21:33, ID: 1904016-05 PDI-141RAB-00-10-191107, Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hepta-Dioxins

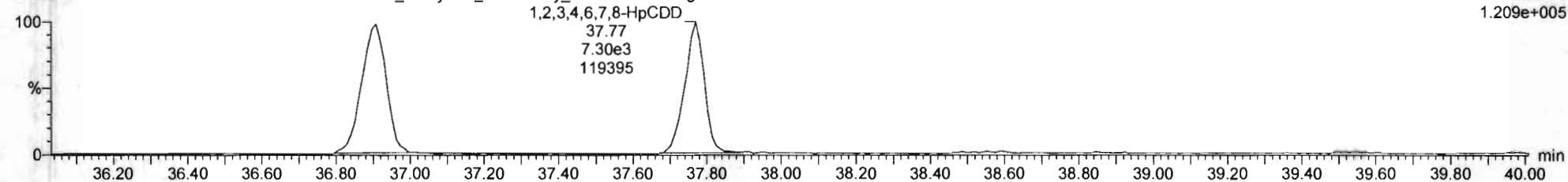
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F4:SIR of 11 channels,EI+
423.777
1.237e+005



191204D2_7
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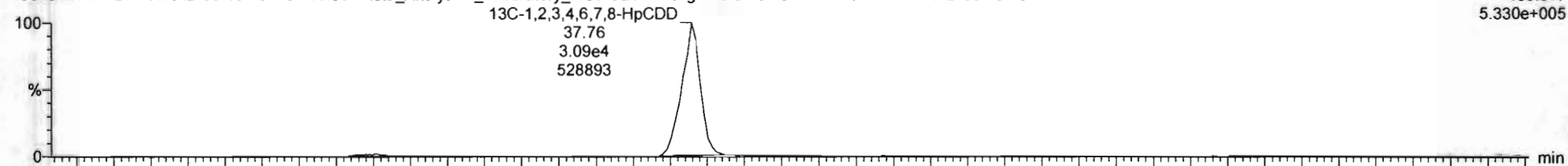
F4:SIR of 11 channels,EI+
425.774
1.209e+005



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

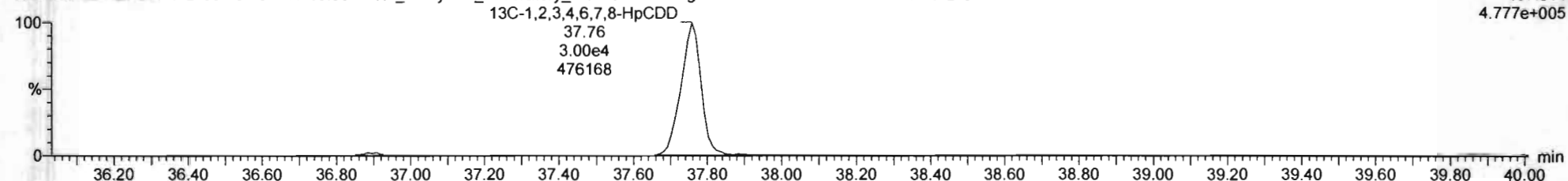
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F4:SIR of 11 channels,EI+
435.817
5.330e+005



191204D2_7
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F4:SIR of 11 channels,EI+
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4.777e+005



Vista Analytical Laboratory

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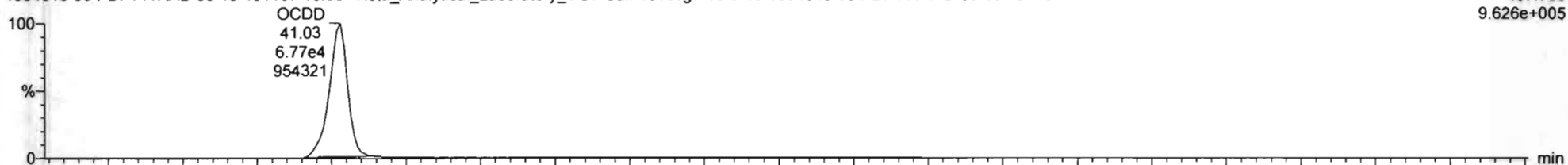
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Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

OCDD

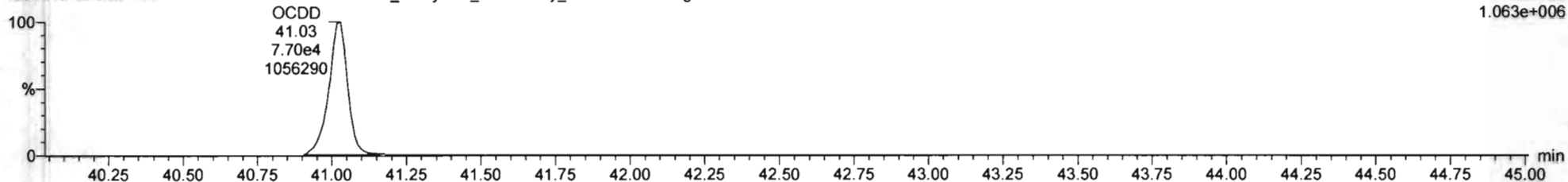
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F5:SIR of 11 channels,EI+
457.738
9.626e+005



191204D2_7
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F5:SIR of 11 channels,EI+
459.735
1.063e+006



13C-OCDD

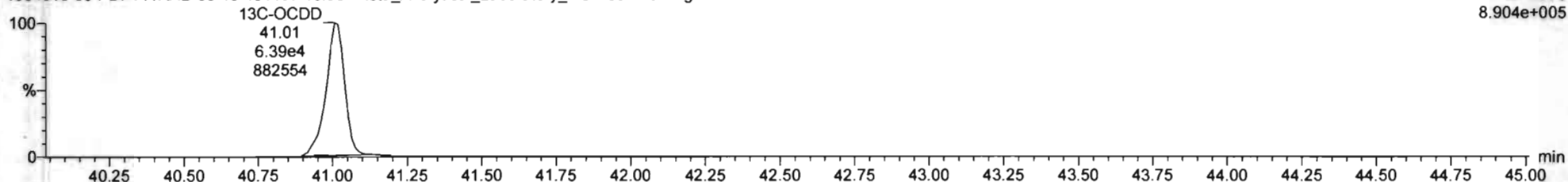
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F5:SIR of 11 channels,EI+
469.778
8.000e+005



191204D2_7
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F5:SIR of 11 channels,EI+
471.775
8.904e+005



Vista Analytical Laboratory

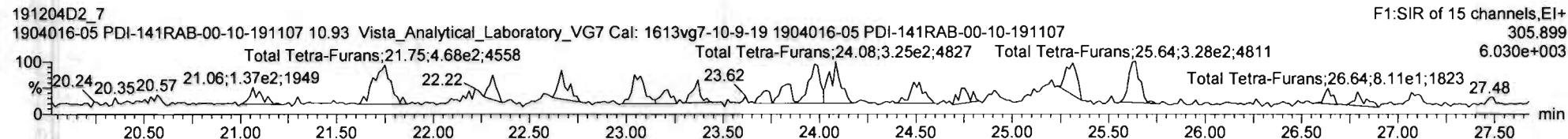
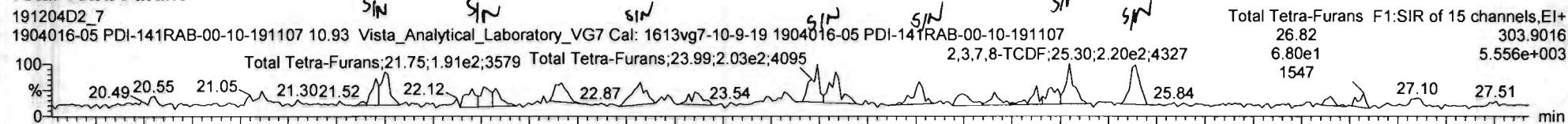
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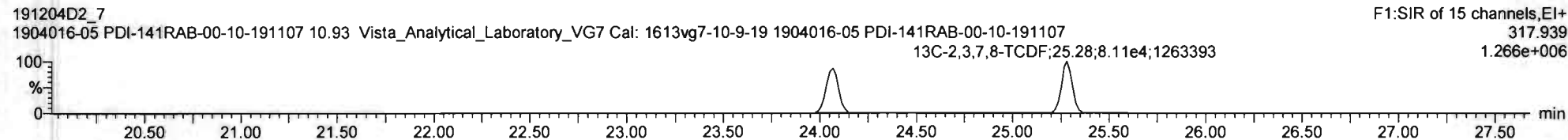
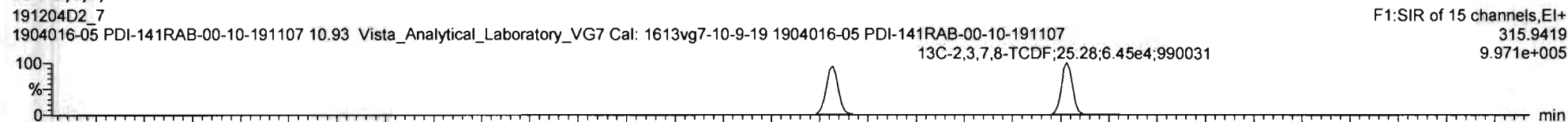
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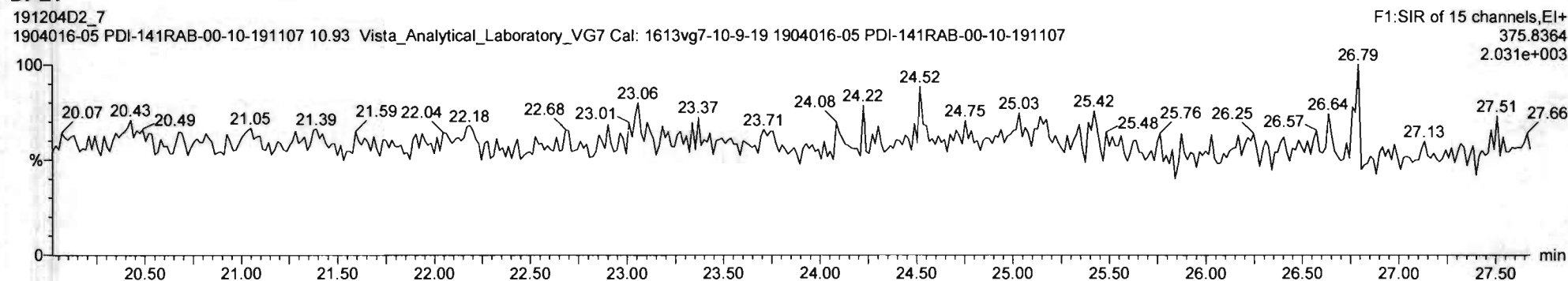
Total Tetra-Furans



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



DPE1

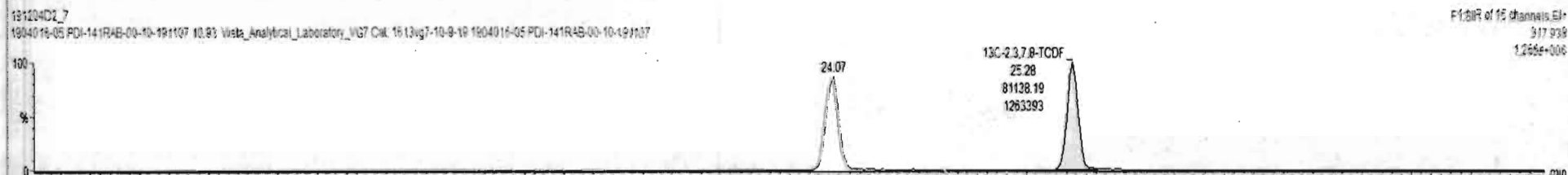
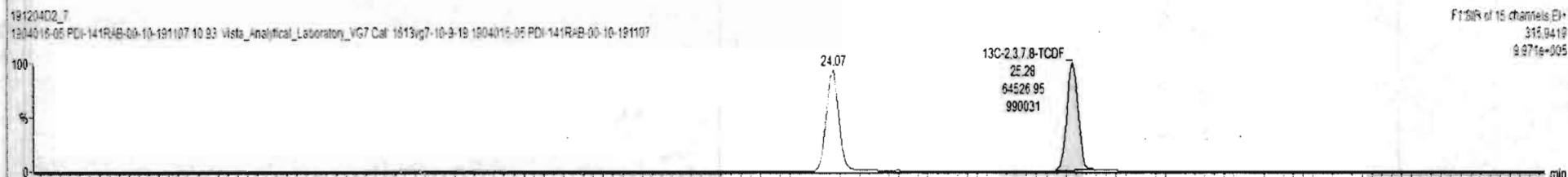
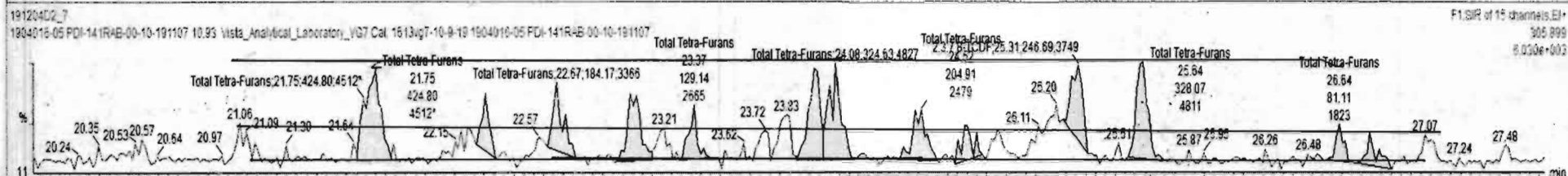
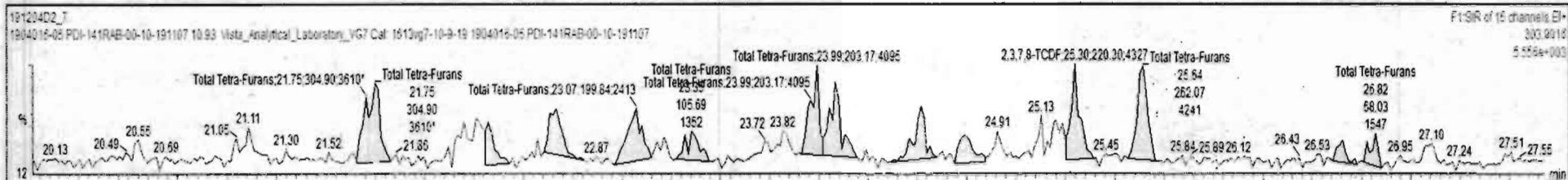




191204D2_7 - 1904016-05 PDI-141RAB-00-10-191107 - 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	w/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	9.52e4		36	0.51	NO	1.000	9.998	33.42	33.41	1.000		NO	200.0	100	0.904	
39	Total Tetra-Dioxins		1.00e5				0.901	9.998	25.50			0.000	NO	0.0000		0.151	1.241
40	Total Penta-Dioxins		9.21e4				0.872	9.998	30.00			0.000	NO	1.762		0.258	2.486
41	Total Hexa-Dioxins		0.00e0				0.978	9.998	33.80			0.000	NO	6.620		0.491	14.70
42	Total Hepta-Dioxins		6.05e4				0.989	9.998	37.75			0.000	NO	107.8		0.860	107.8
43	Total Tetra-Furans		1.46e5				0.943	9.998	24.00			0.000	NO	5.327		0.338	6.775

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	24.00	21.75	1.913e2	4.682e2	0.770	0.41	YES	0.64068	0.00000
2	43 Total Tetra-Furans	24.00	22.32	5.519e1	1.251e2	0.770	0.76	NO	0.32091	0.32091
3	43 Total Tetra-Furans	24.00	22.67	1.595e2	1.842e2	0.770	0.85	NO	0.49615	0.49615
4	43 Total Tetra-Furans	24.00	23.07	1.988e2	2.502e2	0.770	0.80	NO	0.65557	0.65557
5	43 Total Tetra-Furans	24.00	23.35	1.057e2	1.291e2	0.770	0.82	NO	0.34205	0.34205



Vista Analytical Laboratory

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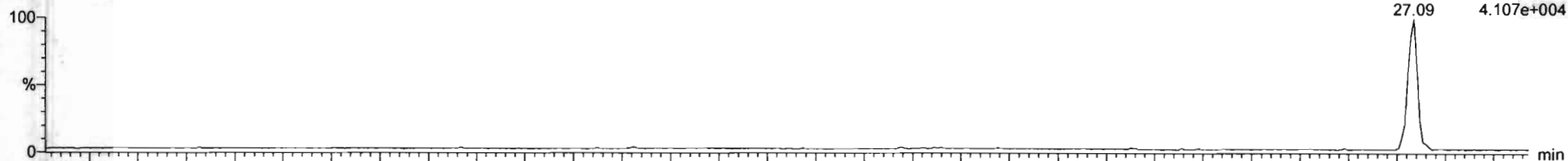
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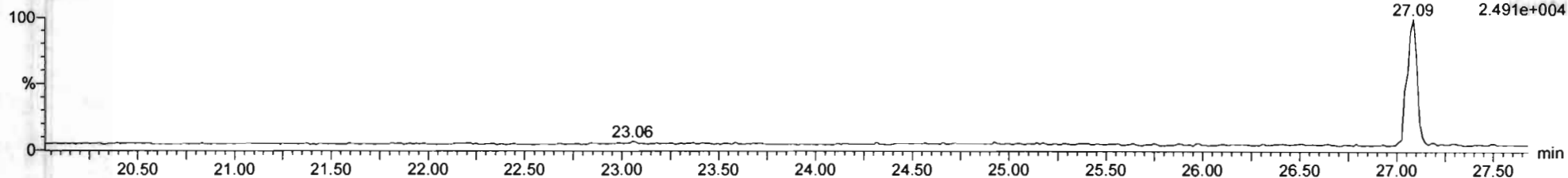
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Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

1st Func. Penta-Furans

191204D2_7
1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-05 PDI-141RAB-00-10-191107

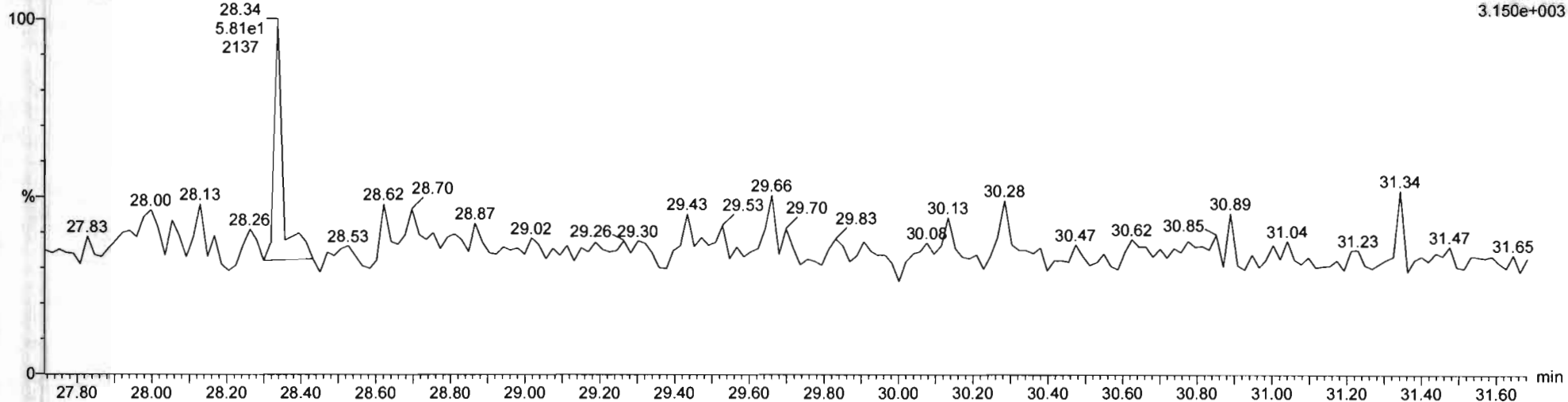


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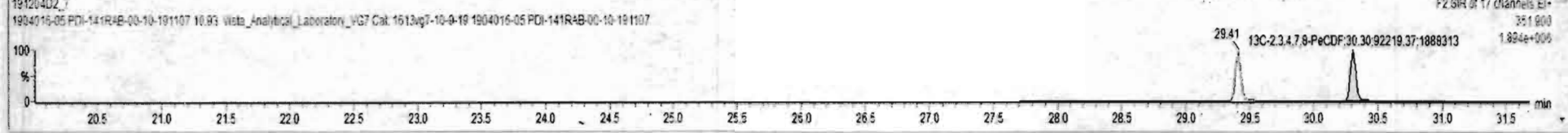
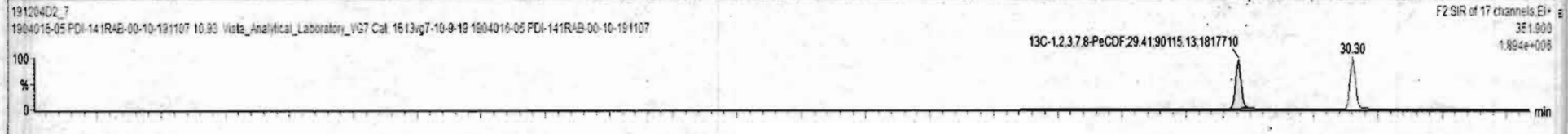
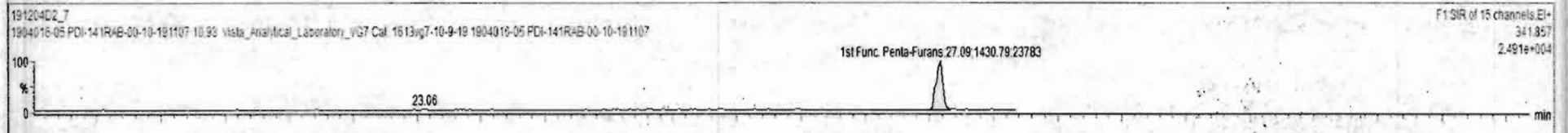
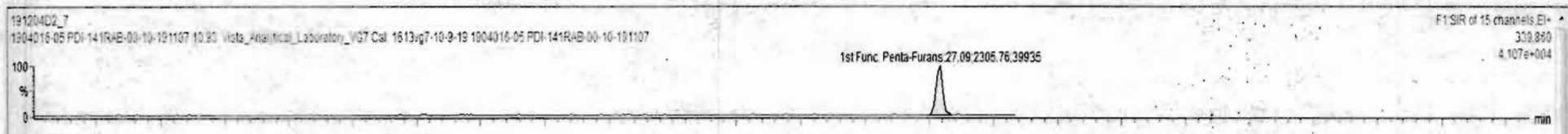
DPE6

191204D2_7
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#	Name	Resp	IS Resp	ES	RA	n/y	RRF	wtvol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
23	13C-1.2.3.4.6.7.8-HpCDD	6.09e4	9.52e4	38	1.03	NO	0.654	9.998	37.63	37.76	1.130	1.126	NO	195.7	97.8	1.54	
24	13C-OCDD	1.22e5	9.52e4	38	0.90	NO	0.580	9.998	40.97	41.02	1.228	1.226	NO	449.7	110	0.832	
25	13C-2.3.7.8-TCDF	1.46e5	1.46e5	37	0.80	NO	1.035	9.998	25.29	25.28	0.991	0.992	NO	193.0	96.5	0.816	
26	13C-1.2.3.7.8-PeCDF	1.46e5	1.46e5	37	1.53	NO	0.854	9.998	29.42	29.41	1.154	1.154	NO	239.5	120	0.838	
27	13C-2.3.4.7.8-PeCDF	1.49e5	1.46e5	37	1.81	NO	0.847	9.998	30.32	30.30	1.188	1.189	NO	241.8	121	0.844	
28	13C-1.2.3.4.7.8-HxCDF	9.83e4	9.52e4	38	0.50	NO	0.832	9.998	32.99	33.00	0.988	0.987	NO	248.4	124	1.09	
29	13C-1.2.3.6.7.8-HxCDF	9.89e4	9.52e4	38	0.52	NO	1.034	9.998	33.11	33.12	0.991	0.991	NO	200.9	100	0.874	
30	13C-2.3.4.6.7.8-HxCDF	8.82e4	9.52e4	38	0.53	NO	0.953	9.998	33.72	33.72	1.009	1.009	NO	194.5	97.2	0.948	
31	13C-1.2.3.7.8.9-HxCDF	7.70e4	9.52e4	38	0.52	NO	0.828	9.998	34.71	34.66	1.037	1.039	NO	195.3	97.6	1.05	
32	13C-1.2.3.4.6.7.8-HpCDF	6.56e4	9.52e4	38	0.42	NO	0.757	9.998	36.52	36.50	1.092	1.093	NO	181.8	90.9	1.17	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	1st Func. Penta-Furans	27.63	27.09	2.306e3	1.431e3	1.550	1.61	NO	5.3292	5.3292



Vista Analytical Laboratory

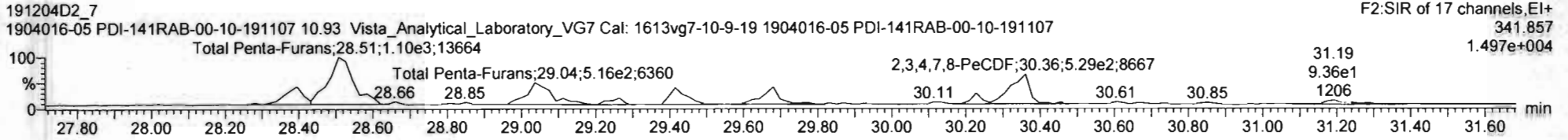
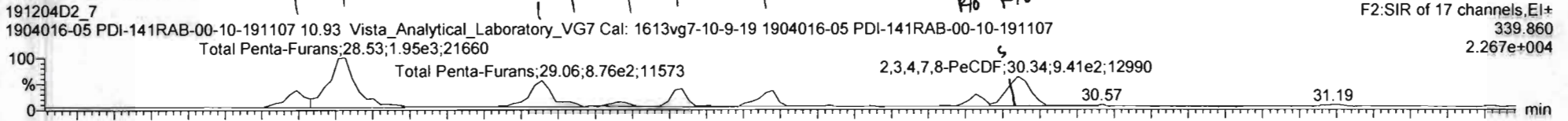
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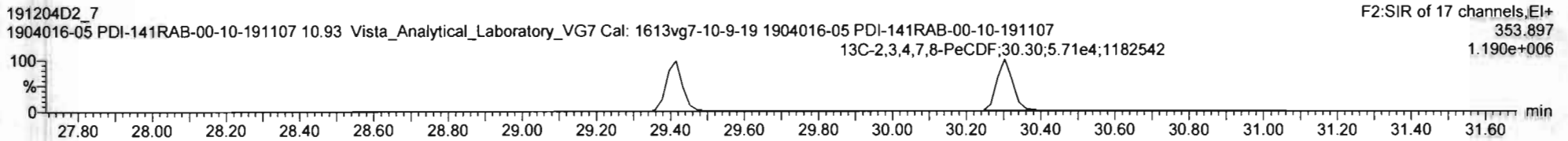
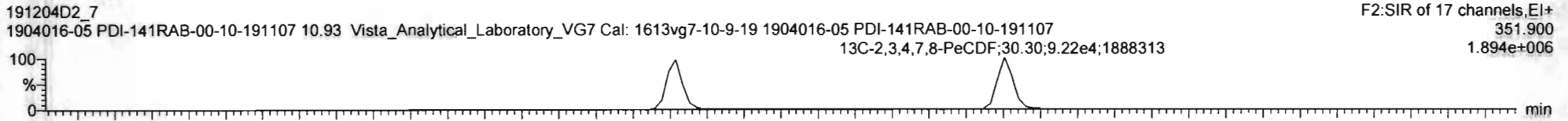
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Name: 191204D2_7, Date: 5-DEC-2019, Time: 12:21:33, ID: 1904016-05 PDI-141RAB-00-10-191107, Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

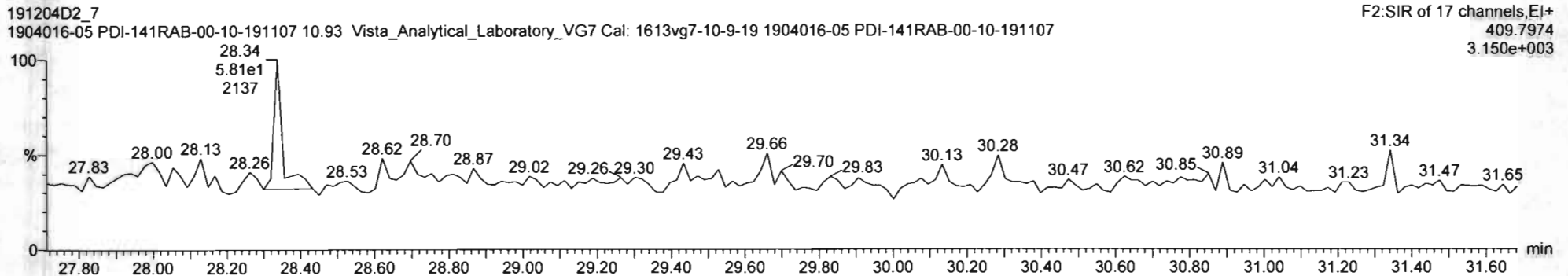
Total Penta-Furans



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



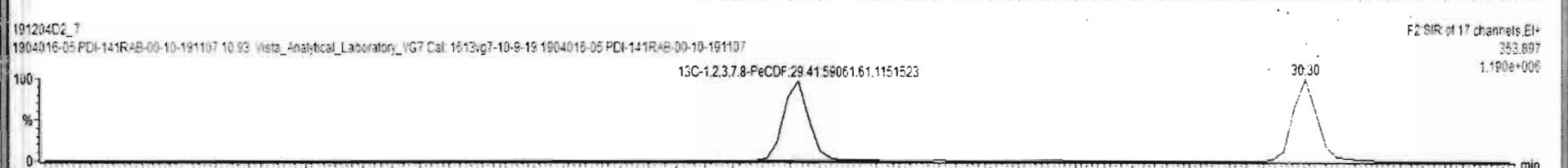
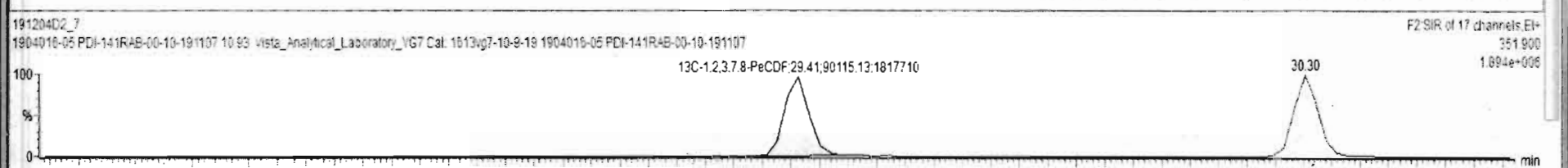
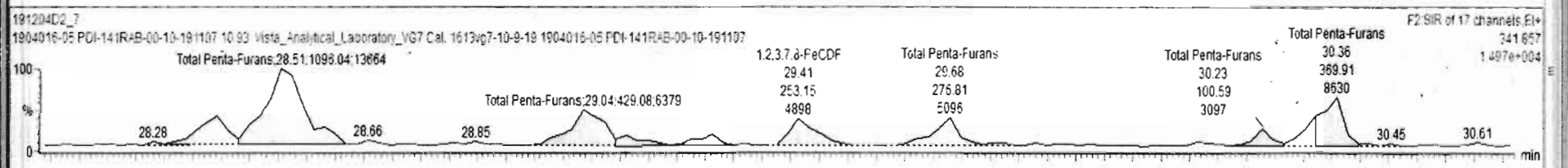
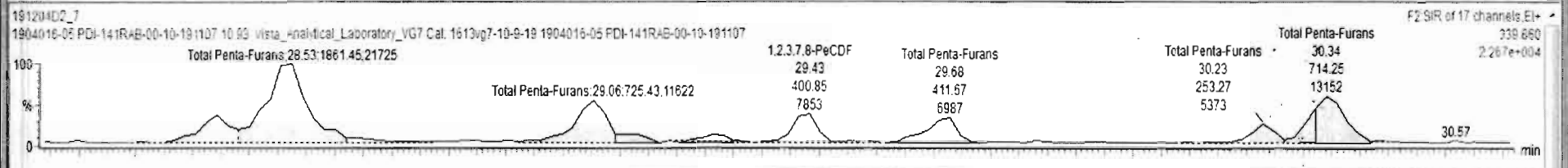
DPE2

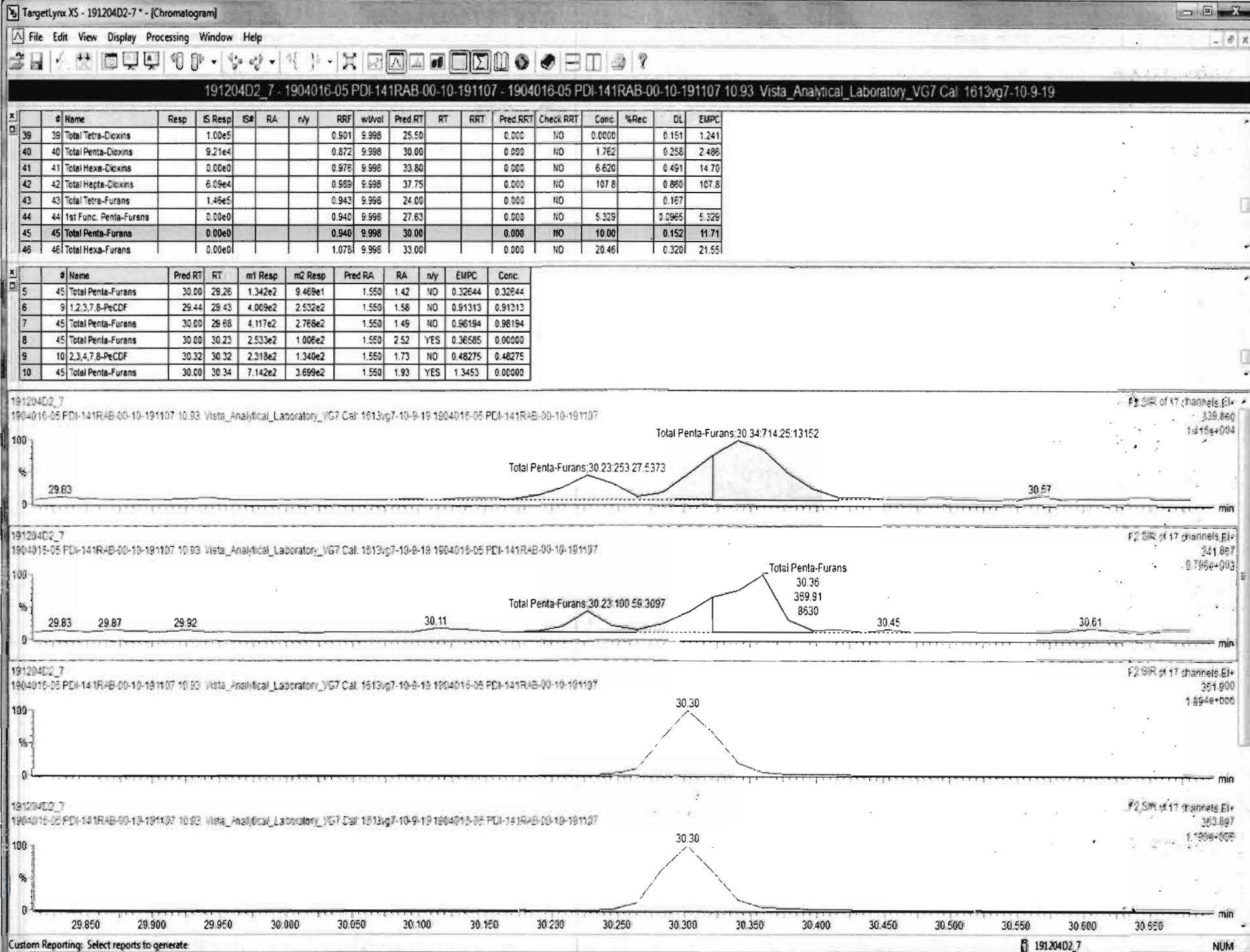


191204D2_7 - 1904016-05 PDI-141RAB-00-10-191107 - 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
39	39 Total Tetra-Dioxins		1.00e5				0.901	9.998	25.50			0.000	NO	0.0000		0.151	1.241
40	40 Total Penta-Dioxins		9.21e4				0.872	9.998	30.00			0.000	NO	1.762		0.258	2.486
41	41 Total Hexa-Dioxins		0.00e0				0.976	9.998	33.80			0.000	NO	6.620		0.491	14.70
42	42 Total Hepta-Dioxins		6.09e4				0.589	9.998	37.75			0.000	NO	107.8		0.860	107.8
43	43 Total Tetra-Furans		1.46e5				0.943	9.998	24.00			0.000	NO			0.167	
44	44 1st Func. Penta-Furans		0.00e0				0.940	9.998	27.63			0.000	NO	5.329		0.0965	5.329
45	45 Total Penta-Furans		0.00e0				0.940	9.998	30.00			0.000	NO	10.00		0.152	11.71
46	46 Total Hexa-Furans		0.00e0				1.078	9.998	33.00			0.000	NO	20.46		0.320	21.55

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
5	45 Total Penta-Furans	30.00	29.28	1.342e2	9.469e1	1.550	1.42	NO	0.32644	0.32644
6	9 1,2,3,7,8-PeCDF	29.44	29.43	4.009e2	2.532e2	1.550	1.58	NO	0.91313	0.91313
7	45 Total Penta-Furans	30.00	29.68	4.117e2	2.788e2	1.550	1.49	NO	0.98194	0.98194
8	45 Total Penta-Furans	30.00	30.23	2.533e2	1.006e2	1.550	2.52	YES	0.36586	0.00000
9	10 2,3,4,7,8-PeCDF	30.32	30.32	2.318e2	1.340e2	1.550	1.73	NO	0.48275	0.48275
10	45 Total Penta-Furans	30.00	30.34	7.142e2	3.699e2	1.550	1.93	YES	1.3453	0.00000





Vista Analytical Laboratory

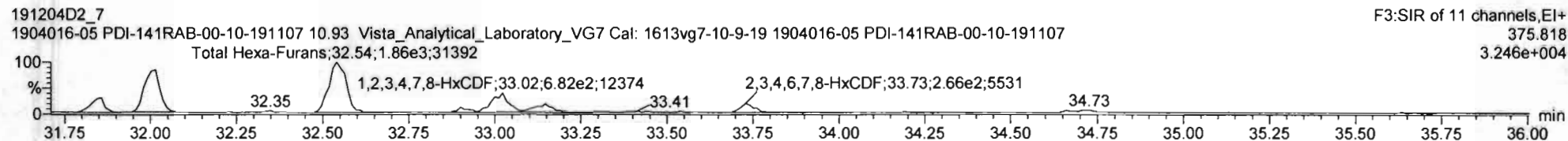
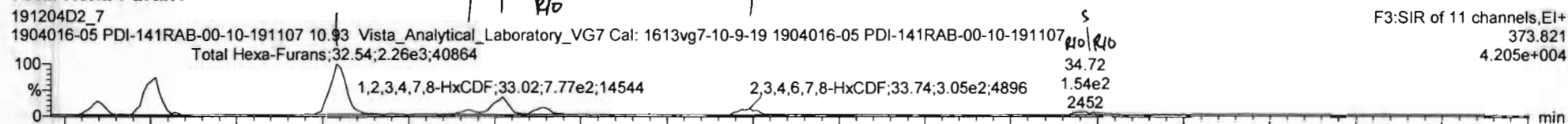
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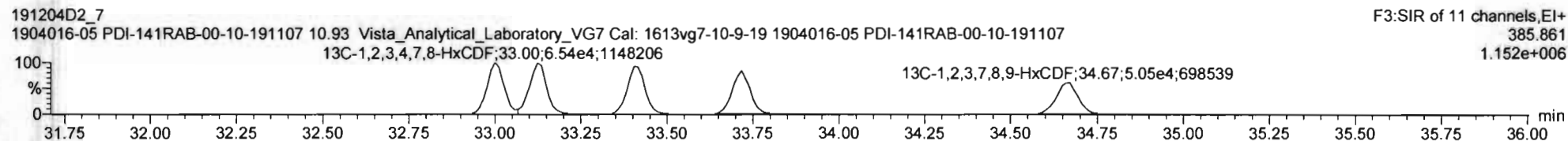
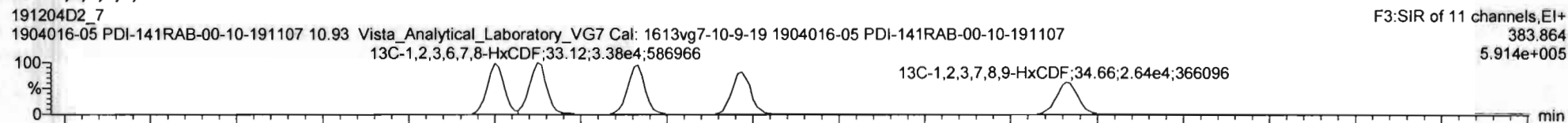
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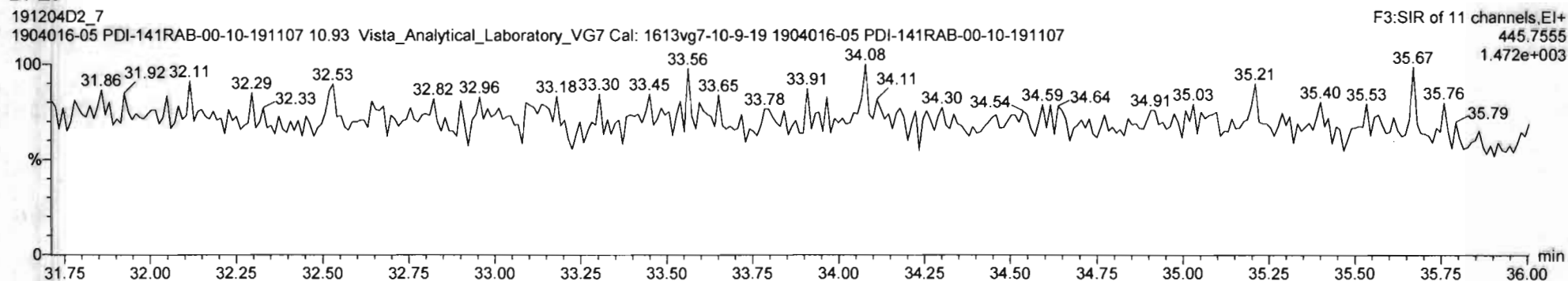
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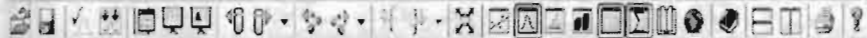


13C-1,2,3,4,7,8-HxCDF



DPE3

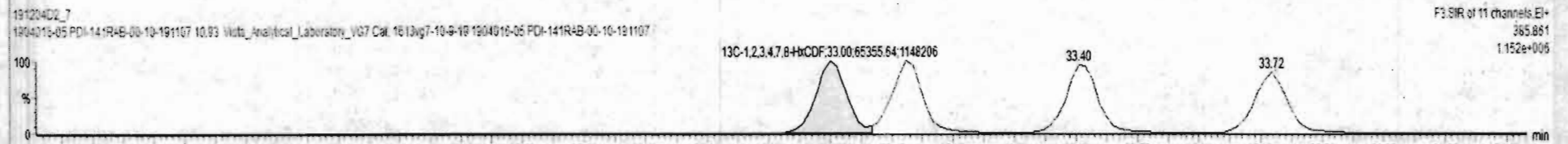
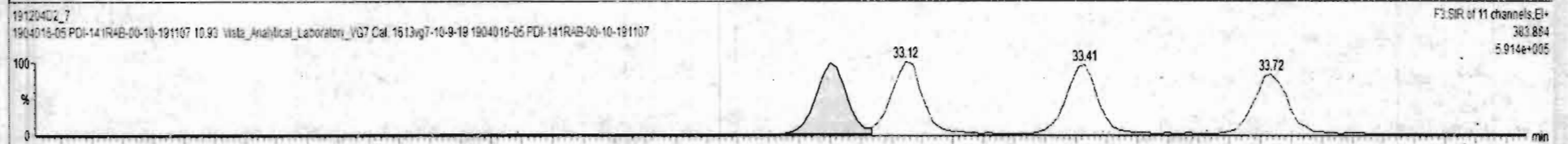
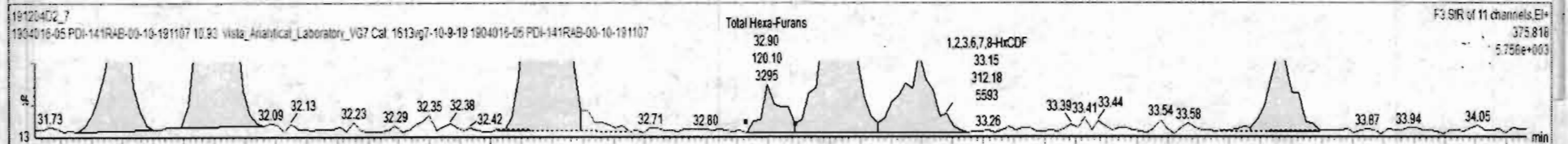
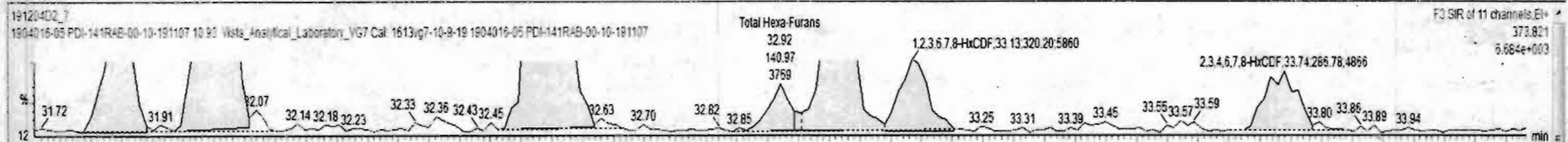




191204D2_7 - 1904016-05 PDI-141RAB-00-10-191107 - 1904016-05 PDI-141RAB-00-10-191107 10 93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RPF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans		0.00e0				0.940	9.998	30.00			0.000	NO	9.517	0.152	11.58	
46	Total Hexa-Furans		0.00e0				1.078	9.998	33.00			0.000	NO	20.46	0.320	21.55	
47	Total Hepta-Furans		0.00e0				1.135	9.998	37.75			0.000	NO	29.10	0.470	26.10	
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																
53	DPE1																
54	DPE2																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.00	31.85	5.205e2	4.155e2	1.240	1.25	NO	1.9174	1.9174
2	46 Total Hexa-Furans	33.00	32.01	1.597e3	1.383e3	1.240	1.16	NO	6.1047	6.1047
3	46 Total Hexa-Furans	33.00	32.54	2.215e3	1.809e3	1.240	1.23	NO	8.2411	8.2411
4	46 Total Hexa-Furans	33.00	32.92	1.410e2	1.201e2	1.240	1.17	NO	0.53479	0.53479
5	11 1,2,3,4,7,8-HxCDF	33.00	33.02	7.869e2	6.817e2	1.240	1.15	NO	2.5386	2.5386
6	12 1,2,3,6,7,8-HxCDF	33.13	33.13	3.202e2	3.122e2	1.240	1.03	YES	1.0941	0.00000
7	13 2,3,4,6,7,8-HxCDF	33.75	33.74	2.869e2	2.632e2	1.240	1.09	NO	1.1194	1.1194

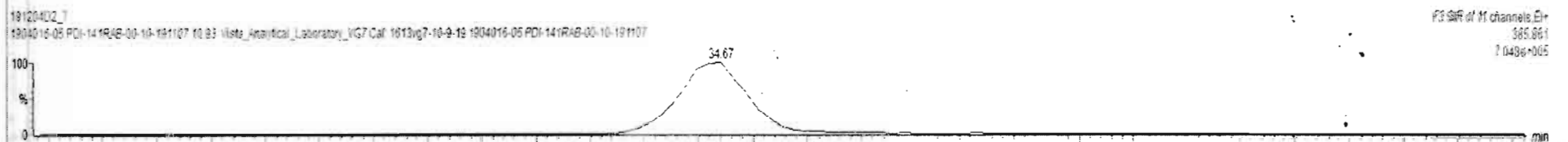
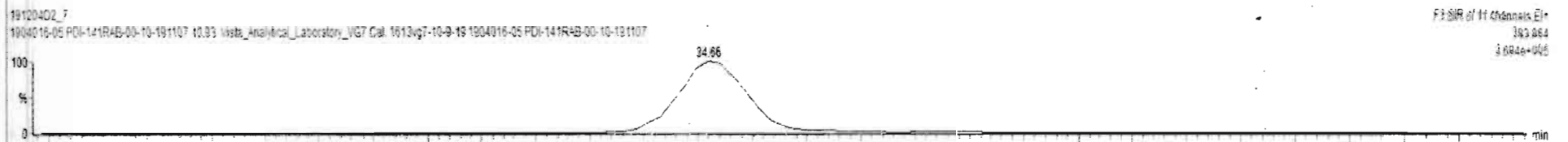
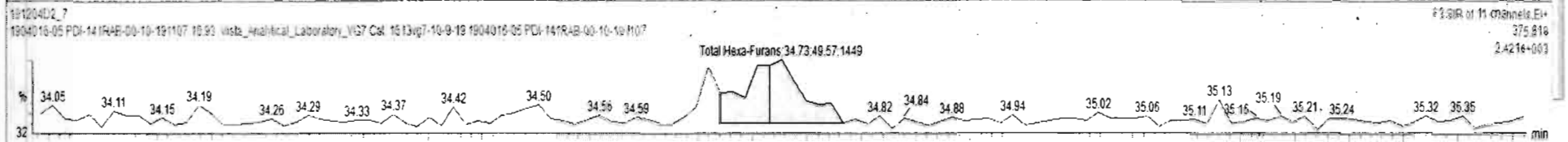
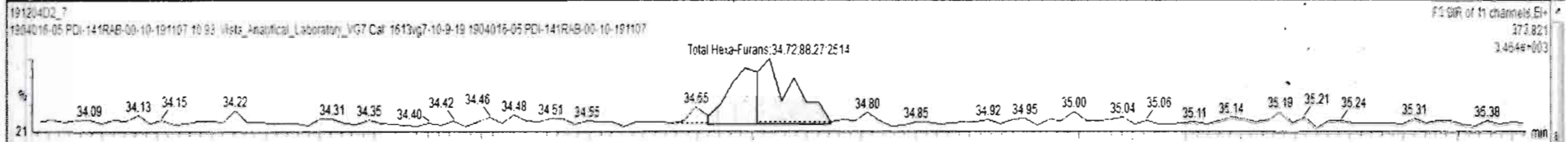




191204D2_7 - 1904016-05 PDI-141RAB-00-10-191107 - 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS	RA	n/y	RRF	w/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
40	Total Penta-Dioxins		9.21e4				0.872	9.998	30.00			0.000	NO	1.762		0.258	2.488
41	Total Hexa-Dioxins		0.00e0				0.978	9.998	33.80			0.000	NO	6.620		0.491	14.70
42	Total Hepta-Dioxins		6.09e4				0.989	9.998	37.75			0.000	NO	107.6		0.860	107.8
43	Total Tetra-Furans		1.46e5				0.943	9.998	24.00			0.000	NO			0.167	
44	1st Func. Penta-Furans		0.00e0				0.940	9.998	27.63			0.000	NO	5.329		0.0965	5.329
45	Total Penta-Furans		0.00e0				0.940	9.998	30.00			0.000	NO	10.00		0.152	11.71
46	Total Hexa-Furans		0.00e0				1.078	9.998	33.00			0.000	NO	20.46		0.320	22.00
47	Total Hepta-Furans		0.00e0				1.135	9.998	37.75			0.000	NO	29.07		0.470	29.07

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.00	31.85	5.205e2	4.155e2	1.240	1.25	NO	1.9174	1.9174
2	46 Total Hexa-Furans	33.00	32.01	1.597e3	1.363e3	1.240	1.16	NO	6.1047	6.1047
3	46 Total Hexa-Furans	33.00	32.54	2.215e3	1.809e3	1.240	1.23	NO	8.2411	8.2411
4	46 Total Hexa-Furans	33.00	32.92	1.410e2	1.201e2	1.240	1.17	NO	0.53479	0.53479
5	11 1,2,3,4,7,8-HxCDF	33.00	33.02	7.869e2	6.817e2	1.240	1.15	NO	2.5306	2.5306
6	12 1,2,3,6,7,8-HxCDF	33.13	33.13	3.202e2	3.122e2	1.240	1.03	YES	1.0941	0.00000
7	13 2,3,4,6,7,8-HxCDF	33.75	33.74	2.868e2	2.632e2	1.240	1.09	NO	1.1194	1.1194
8	14 1,2,3,7,8,9-HxCDF	34.66	34.66	6.316e1	4.025e1	1.240	1.57	YES	0.22078	0.60000
9	46 Total Hexa-Furans	33.00	34.72	8.927e1	4.957e1	1.240	1.78	YES	0.22747	0.00000



Vista Analytical Laboratory

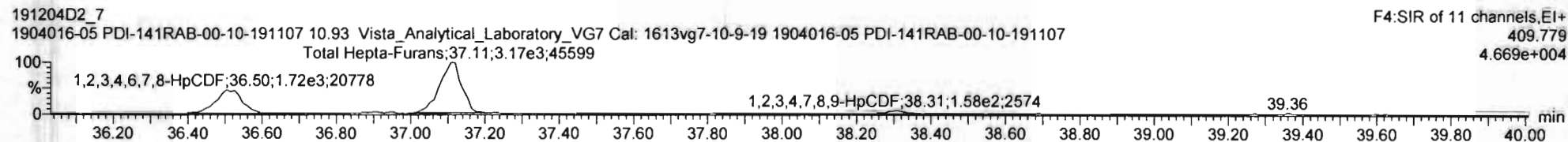
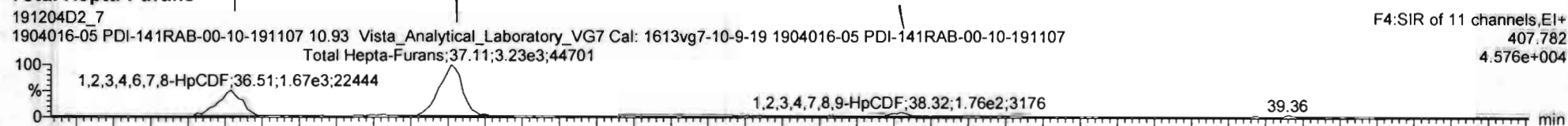
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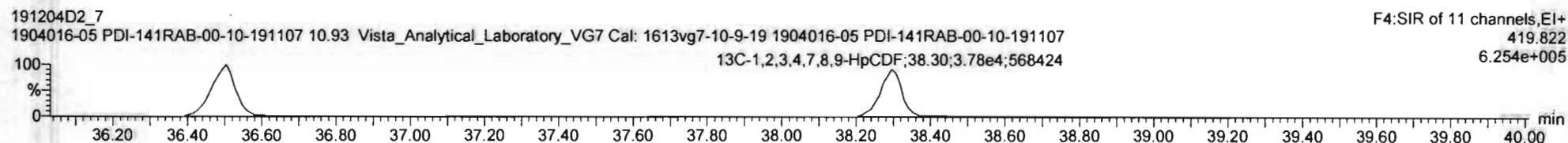
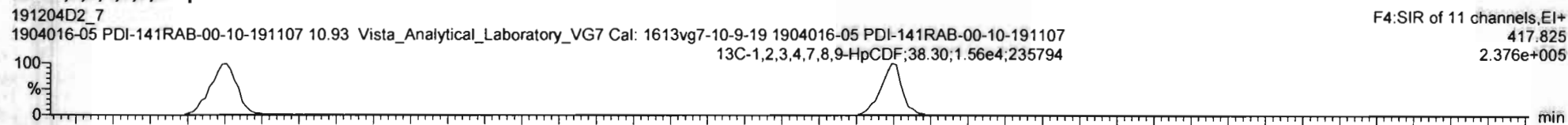
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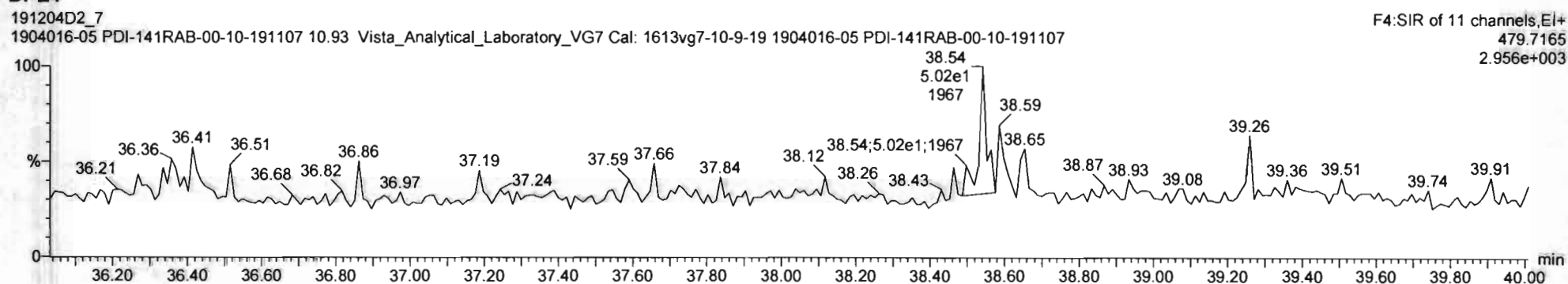
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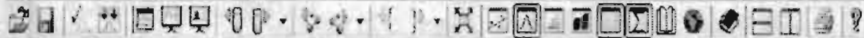


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DPE4

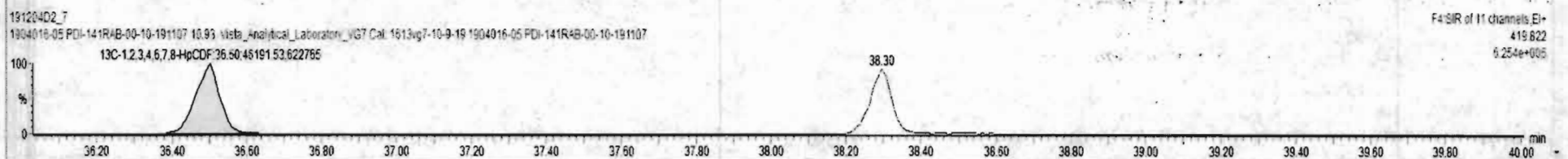
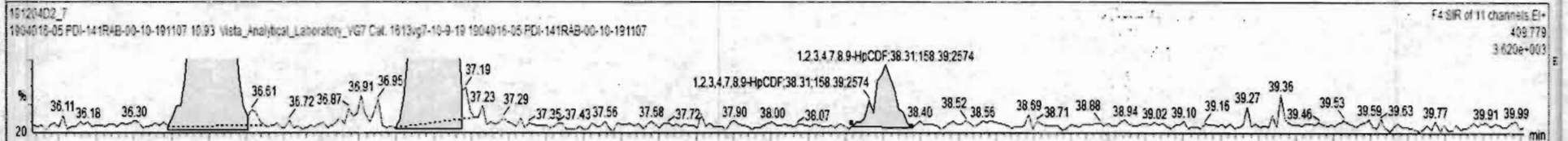
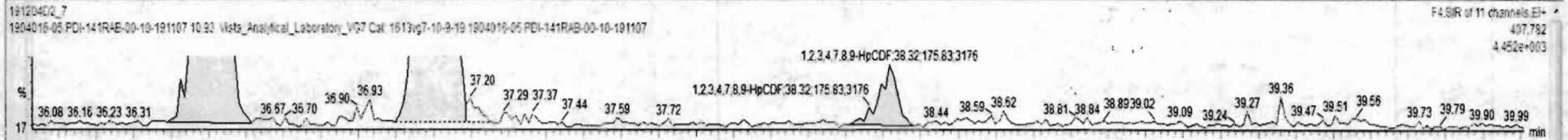




191204D2_7 - 1904016-05 PDI-141RAB-00-10-191107 - 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	w/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans		0.00e0				0.940	9.998	30.00			0.000	NO	9.517	0.152	11.58	
46	Total Hexa-Furans		0.00e0				1.078	9.998	33.00			0.000	NO	20.48	0.320	21.55	
47	Total Hepta-Furans		0.00e0				1.135	9.998	37.75			0.000	NO	29.07	0.470	26.67	
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																
53	DPE1																
54	DPE2																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	36.54	36.51	1.665e3	1.726e3	1.040	0.96	NO	9.176e	9.1764
2	Total Hepta-Furans	37.75	37.11	3.195e3	3.185e3	1.040	1.00	NO	18.914	18.914
3	1,2,3,4,7,8,9-HpCDF	38.30	38.32	1.758e2	1.584e2	1.040	1.11	NO	0.97907	0.97907



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191204D2_7

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Vista Analytical Laboratory

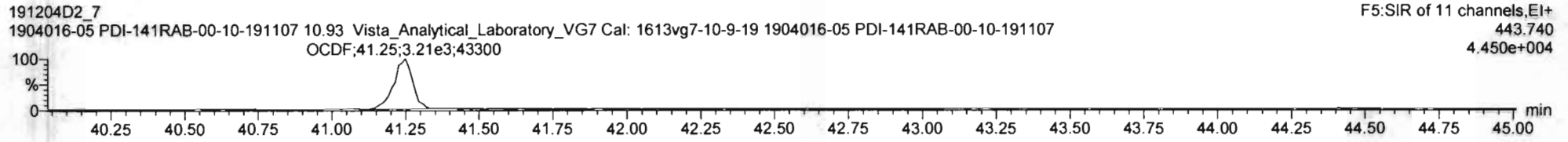
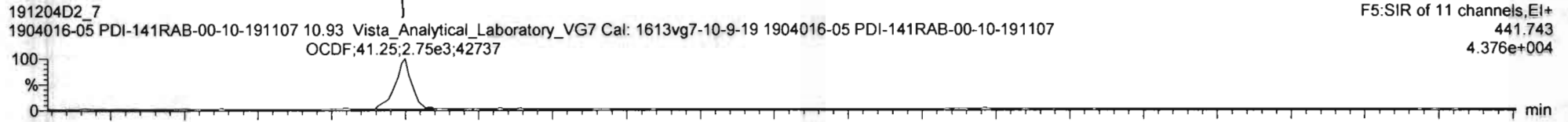
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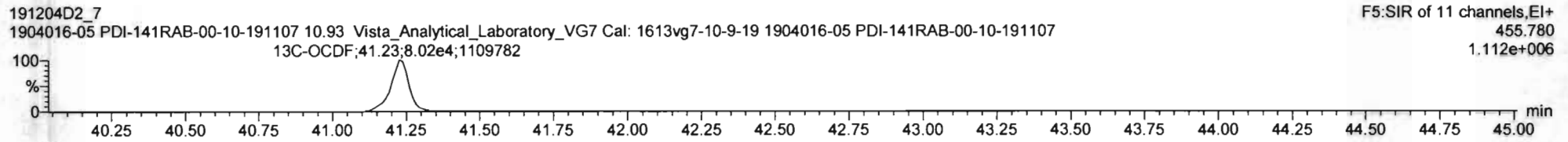
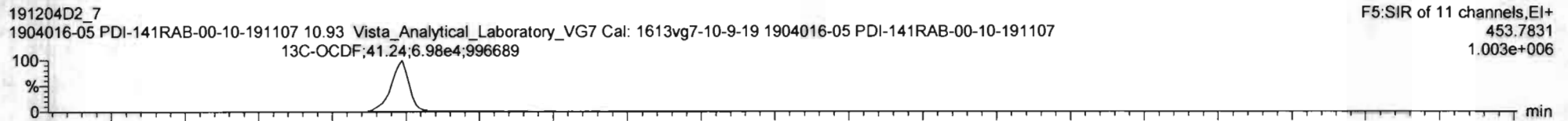
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Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

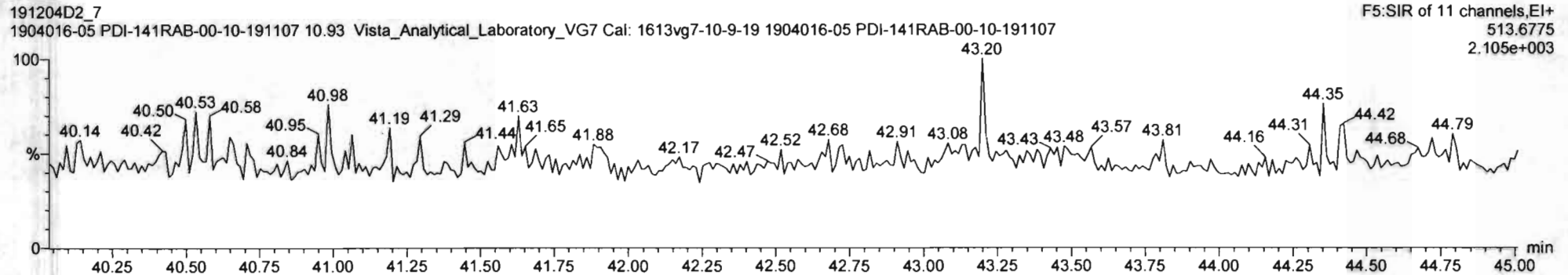
OCDF



13C-OCDF



DPE5



Vista Analytical Laboratory

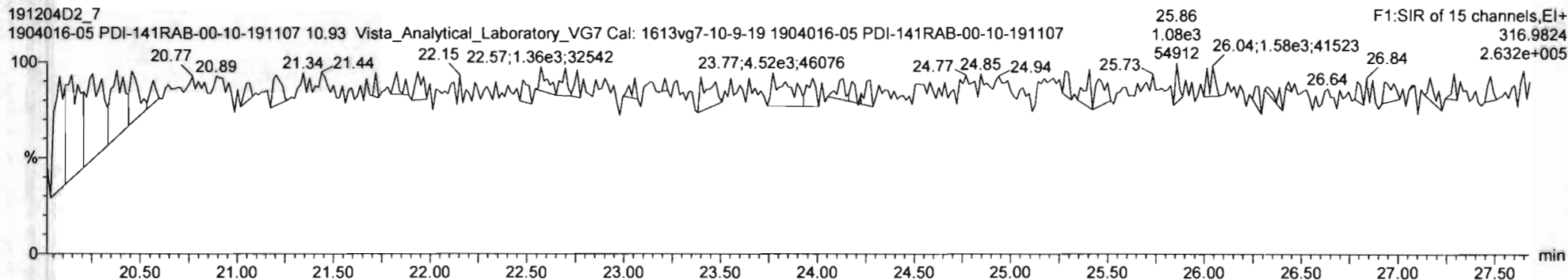
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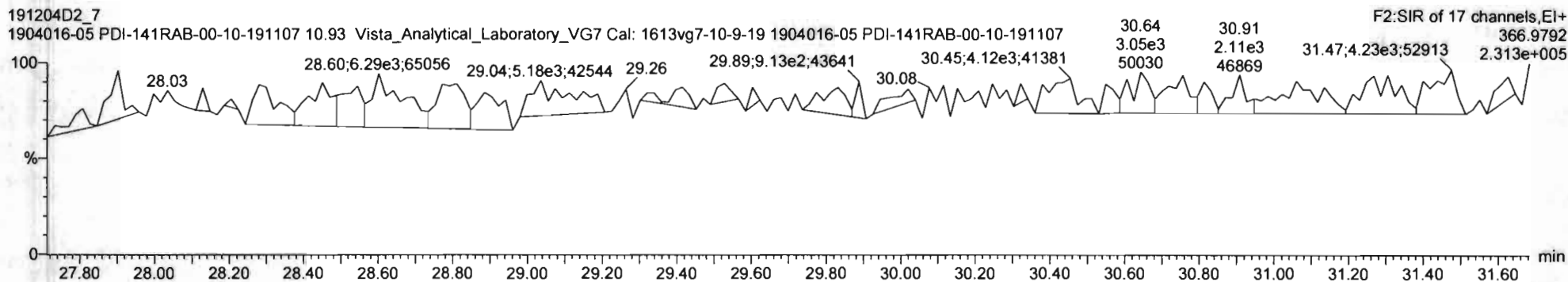
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

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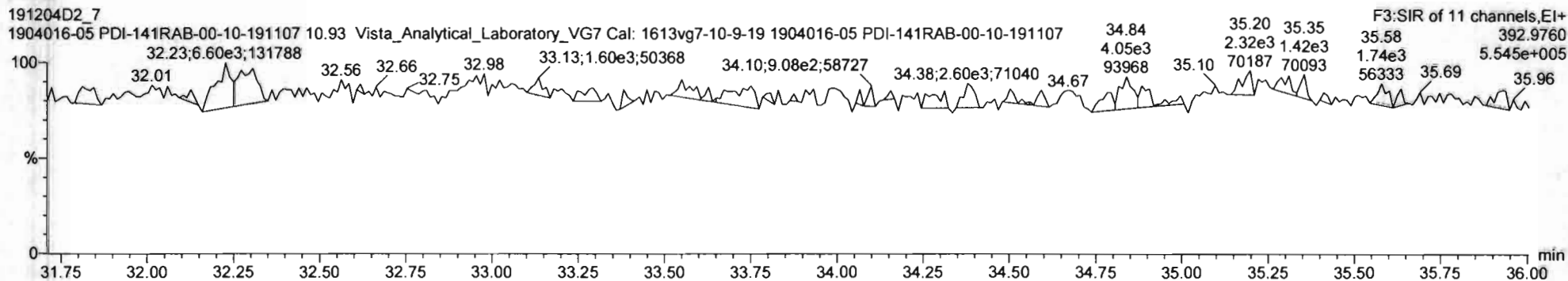
PFK1



PFK2



PFK3



Vista Analytical Laboratory

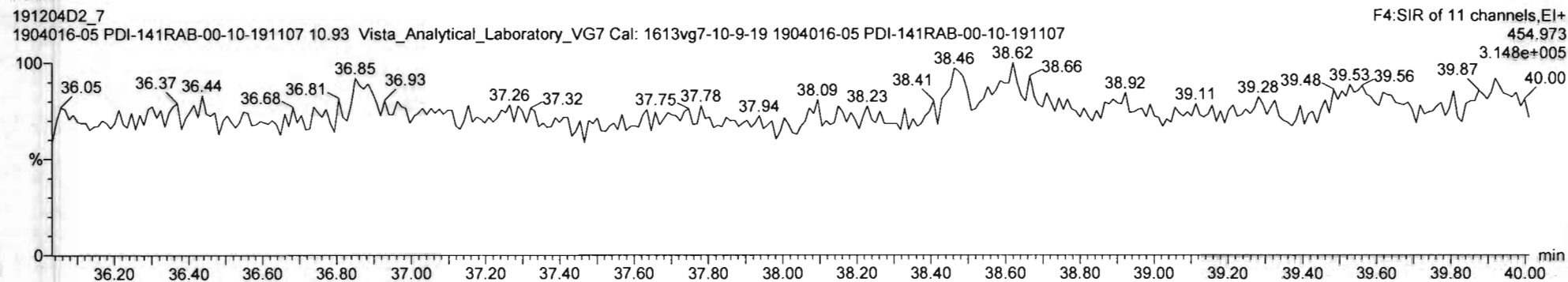
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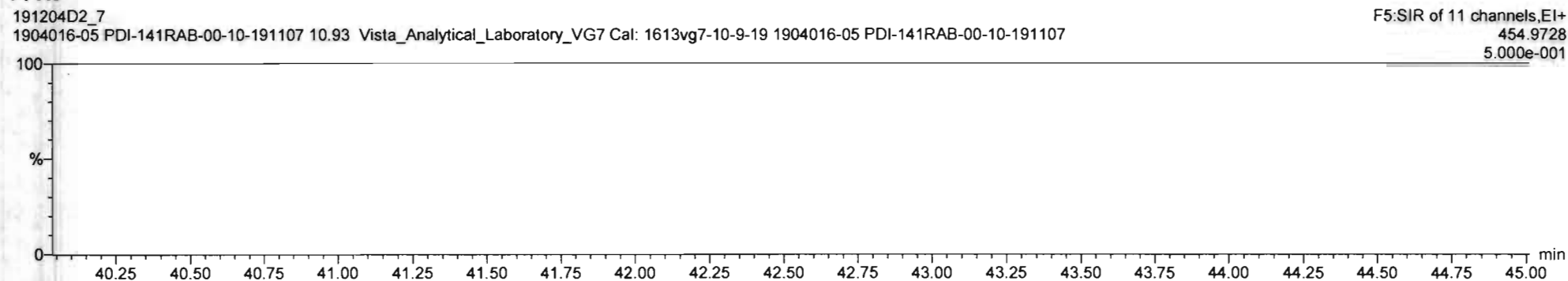
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Description: 1904016-05 PDI-141RAB-00-10-191107 10.93 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

PFK4



PFK5



Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-8.qld
 Last Altered: Thursday, December 19, 2019 10:56:56 Pacific Standard Time
 Printed: Thursday, December 19, 2019 10:58:57 Pacific Standard Time

H 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 12:20:58

Name: 191204D2_8, Date: 5-DEC-2019, Time: 13:09:20, ID: 1904016-06 PDI-141RAB-10-17.7-191107,
 Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 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		8.72e4	10.0310	0.905			1.001		26.11					0.817
2	2 1,2,3,7,8-PeCDD	2.39e2	5.58e4	10.0310	0.903	0.778	YES	1.001	1.000	30.62	30.60	0.9456		0.867	0.896
3	3 1,2,3,4,7,8-HxCDD	6.86e2	4.34e4	10.0310	1.101	1.110	NO	1.000	1.000	33.90	33.90	2.8581		2.86	1.25
4	4 1,2,3,6,7,8-HxCDD	4.36e3	4.80e4	10.0310	0.939	1.289	NO	1.000	1.001	33.99	34.01	19.293		19.3	1.33
5	5 1,2,3,7,8,9-HxCDD	1.22e3	4.53e4	10.0310	0.961	1.355	NO	1.001	1.000	34.33	34.30	5.5909		5.59	1.40
6	6 1,2,3,4,6,7,8-HpCDD	2.18e5	3.38e4	10.0310	0.979	1.000	NO	1.000	1.000	37.76	37.76	1310.0		1310	4.04
7	7 OCDD	1.09e6	5.59e4	10.0310	0.959	0.881	NO	1.000	1.000	41.04	41.05	8083.1E		8080	3.15
8	8 2,3,7,8-TCDF	2.50e3	1.03e5	10.0310	0.950	0.726	NO	1.001	1.001	25.31	25.32	5.0938	(3.73)	5.09	0.701
9	9 1,2,3,7,8-PeCDF	3.08e3	9.45e4	10.0310	0.960	1.449	NO	1.001	1.000	29.47	29.45	6.7782		6.78	0.439
10	10 2,3,4,7,8-PeCDF	1.50e3	8.40e4	10.0310	1.015	1.728	NO	1.001	1.001	30.35	30.33	3.5064		3.51	0.389
11	11 1,2,3,4,7,8-HxCDF	3.41e3	5.76e4	10.0310	1.177	1.256	NO	1.000	1.000	33.00	33.02	10.046		10.0	0.459
12	12 1,2,3,6,7,8-HxCDF	7.74e2	5.94e4	10.0310	1.069	1.143	NO	1.000	1.001	33.14	33.15	2.4300		2.43	0.497
13	13 2,3,4,6,7,8-HxCDF	4.52e2	5.31e4	10.0310	1.114	1.126	NO	1.001	1.001	33.76	33.74	1.5253		1.53	0.552
14	14 1,2,3,7,8,9-HxCDF		4.83e4	10.0310	1.062			1.000		34.66					0.629
15	15 1,2,3,4,6,7,8-HpCDF	7.92e3	3.55e4	10.0310	1.128	1.000	NO	1.001	1.001	36.52	36.51	39.479		39.5	1.03
16	16 1,2,3,4,7,8,9-HpCDF	6.61e2	2.90e4	10.0310	1.280	0.901	NO	1.000	1.001	38.29	38.31	3.5481		3.55	0.973
17	17 OCDF	3.48e4	5.91e4	10.0310	0.947	0.861	NO	1.000	1.000	41.25	41.27	247.91		248	1.18
18	18 13C-2,3,7,8-TCDD	8.72e4	1.40e5	10.0310	1.095	0.779	NO	1.021	1.022	26.06	26.08	113.33	56.8		0.598
19	19 13C-1,2,3,7,8-PeCDD	5.58e4	1.40e5	10.0310	0.881	0.633	NO	1.187	1.199	30.29	30.60	90.168	45.2		0.398
20	20 13C-1,2,3,4,7,8-Hx...	4.34e4	1.34e5	10.0310	0.642	1.257	NO	1.014	1.014	33.88	33.89	100.55	50.4		0.707
21	21 13C-1,2,3,6,7,8-Hx...	4.80e4	1.34e5	10.0310	0.856	1.190	NO	1.017	1.017	34.00	33.99	83.484	41.9		0.531
22	22 13C-1,2,3,7,8,9-Hx...	4.53e4	1.34e5	10.0310	0.807	1.267	NO	1.026	1.026	34.30	34.29	83.400	41.8		0.563
23	23 13C-1,2,3,4,6,7,8-H...	3.38e4	1.34e5	10.0310	0.654	1.032	NO	1.126	1.130	37.64	37.75	76.909	38.6		0.721
24	24 13C-OCDD	5.59e4	1.34e5	10.0310	0.580	0.896	NO	1.226	1.228	40.97	41.04	143.46	36.0		0.553
25	25 13C-2,3,7,8-TCDF	1.03e5	1.97e5	10.0310	1.035	0.790	NO	0.992	0.991	25.31	25.29	100.85	50.6		0.538
26	26 13C-1,2,3,7,8-PeCDF	9.45e4	1.97e5	10.0310	0.854	1.588	NO	1.154	1.154	29.45	29.45	111.83	56.1		0.463
27	27 13C-2,3,4,7,8-PeCDF	8.40e4	1.97e5	10.0310	0.847	1.601	NO	1.189	1.188	30.35	30.31	100.24	50.3		0.467
28	28 13C-1,2,3,4,7,8-Hx...	5.76e4	1.34e5	10.0310	0.832	0.510	NO	0.987	0.988	32.99	33.00	102.87	51.6		0.645
29	29 13C-1,2,3,6,7,8-Hx...	5.94e4	1.34e5	10.0310	1.034	0.519	NO	0.991	0.991	33.11	33.13	85.405	42.8		0.518
30	30 13C-2,3,4,6,7,8-Hx...	5.31e4	1.34e5	10.0310	0.953	0.495	NO	1.009	1.009	33.73	33.72	82.771	41.5		0.562
31	31 13C-1,2,3,7,8,9-Hx...	4.83e4	1.34e5	10.0310	0.828	0.509	NO	1.039	1.037	34.71	34.66	86.655	43.5		0.648

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-8.qld

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Printed: Thursday, December 19, 2019 10:58:57 Pacific Standard Time

Name: 191204D2_8, Date: 5-DEC-2019, Time: 13:09:20, ID: 1904016-06 PDI-141RAB-10-17.7-191107,
 Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 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...	3.55e4	1.34e5	10.0310	0.757	0.417	NO	1.093	1.092	36.52	36.48	69.595	34.9		0.651
33	33 13C-1,2,3,4,7,8,9-H...	2.90e4	1.34e5	10.0310	0.581	0.407	NO	1.143	1.146	38.20	38.29	74.222	37.2		0.849
34	34 13C-OCDF	5.91e4	1.34e5	10.0310	0.689	0.841	NO	1.233	1.234	41.21	41.25	127.46	32.0		0.459
35	35 37Cl-2,3,7,8-TCDD	3.64e4	1.40e5	10.0310	1.198			1.022	1.023	26.08	26.10	43.309	54.3		0.236
36	36 13C-1,2,3,4-TCDD	1.40e5	1.40e5	10.0310	1.000	0.784	NO	1.000	1.000	25.50	25.52	199.38	100.0		0.655
37	37 13C-1,2,3,4-TCDF	1.97e5	1.97e5	10.0310	1.000	0.789	NO	1.000	1.000	24.06	24.08	199.38	100.0		0.557
38	38 13C-1,2,3,4,6,9-Hx...	1.34e5	1.34e5	10.0310	1.000	0.514	NO	1.000	1.000	33.42	33.42	199.38	100.0		0.536
39	39 Total Tetra-Dioxins		8.72e4	10.0310	0.901			0.000		25.50					0.384
40	40 Total Penta-Dioxins		5.58e4	10.0310	0.872			0.000		30.00		20.910		22.1	0.928
41	41 Total Hexa-Dioxins		0.00e0	10.0310	0.976			0.000		33.80		358.12		358	1.35
42	42 Total Hepta-Dioxins		3.38e4	10.0310	0.989			0.000		37.75		3529.0		3530	4.00
43	43 Total Tetra-Furans		1.03e5	10.0310	0.943			0.000		24.00		18.760		23.0	0.707
44	44 1st Func. Penta-Fur...		0.00e0	10.0310	0.940			0.000		27.63		8.4235		8.42	0.686
45	45 Total Penta-Furans		0.00e0	10.0310	0.940			0.000		30.00		22.899		25.9	0.435
46	46 Total Hexa-Furans		0.00e0	10.0310	1.078			0.000		33.00		50.013		51.9	0.542
47	47 Total Hepta-Furans		0.00e0	10.0310	1.135			0.000		37.75		206.16		206	1.06

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-8.qld
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 Printed: Thursday, December 19, 2019 10:58:57 Pacific Standard Time

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Name: 191204D2_8, Date: 5-DEC-2019, Time: 13:09:20, ID: 1904016-06 PDI-141RAB-10-17.7-191107,
 Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 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	28.56	576.508	21657.676	52.201	MM	5.9665	5.97
2	40 Total Penta-Dioxins	NO	29.03	369.868	21657.676	31.871	MM	3.6428	3.64
3	40 Total Penta-Dioxins	YES	29.45	83.898	21657.676	0.000	MM	0.0000	0.35
4	40 Total Penta-Dioxins	NO	29.52	141.763	21657.676	13.052	db	1.4919	1.49
5	40 Total Penta-Dioxins	NO	29.63	143.649	21657.676	14.118	MM	1.6137	1.61
6	40 Total Penta-Dioxins	NO	29.73	123.191	21657.676	10.616	MM	1.2134	1.21
7	40 Total Penta-Dioxins	NO	29.94	508.160	21657.676	44.122	MM	5.0431	5.04
8	2 1,2,3,7,8-PeCDD	YES	30.60	104.605	21657.676	0.000	MM	0.0000	0.87
9	40 Total Penta-Dioxins	NO	30.69	111.11	21657.676	10.483	MM	1.1982	1.20
10	40 Total Penta-Dioxins	NO	30.98	72.519	21657.676	6.479	MM	0.7405	0.74

Hexa-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	41 Total Hexa-Dioxins	NO	32.39	19984.484	25197.952	1561.255	bb	159.4872	159.49
2	41 Total Hexa-Dioxins	NO	32.95	2571.309	25197.952	204.607	MM	20.9012	20.90
3	41 Total Hexa-Dioxins	NO	33.21	14568.367	25197.952	1161.240	bd	118.6243	118.62
4	41 Total Hexa-Dioxins	NO	33.33	2562.002	25197.952	201.676	MM	20.6018	20.60
5	3 1,2,3,4,7,8-HxCDD	NO	33.90	360.733	24190.027	31.574	MM	2.8581	2.86
6	4 1,2,3,6,7,8-HxCDD	NO	34.01	2457.719	26109.572	181.640	MM	19.2925	19.29
7	41 Total Hexa-Dioxins	NO	34.20	1304.104	25197.952	105.381	MM	10.7650	10.77
8	5 1,2,3,7,8,9-HxCDD	NO	34.30	701.816	25294.256	53.911	MM	5.5909	5.59

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-8.qld

Last Altered: Thursday, December 19, 2019 10:56:56 Pacific Standard Time

Printed: Thursday, December 19, 2019 10:58:57 Pacific Standard Time

Name: 191204D2_8, Date: 5-DEC-2019, Time: 13:09:20, ID: 1904016-06 PDI-141RAB-10-17.7-191107,
 Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Hepta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	42 Total Hepta-Dioxins	NO	36.91	186252.359	17179.379	22007.042	bb	2218.9849	2218.98
2	6 1,2,3,4,6,7,8-HpCDD	NO	37.76	108856.570	17179.379	12869.822	bb	1309.9950	1310.00

Tetra-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	43 Total Tetra-Furans	NO	21.18	279.622	45528.934	12.811	MM	1.3546	1.35
2	43 Total Tetra-Furans	NO	21.73	789.662	45528.934	35.769	MM	3.7822	3.78
3	43 Total Tetra-Furans	YES	22.71	746.223	45528.934	0.000	MM	0.0000	2.99
4	43 Total Tetra-Furans	NO	23.08	451.724	45528.934	20.968	MM	2.2172	2.22
5	43 Total Tetra-Furans	NO	24.00	459.141	45528.934	19.069	MM	2.0163	2.02
6	43 Total Tetra-Furans	NO	24.53	953.461	45528.934	40.631	MM	4.2963	4.30
7	43 Total Tetra-Furans	YES	25.21	133.139	45528.934	0.000	MM	0.0000	0.63
8	8 2,3,7,8-TCDF	NO	25.32	1053.693	45528.934	48.546	MM	5.0938	5.09
9	43 Total Tetra-Furans	YES	27.08	168.340	45528.934	0.000	MM	0.0000	0.60

Penta-Furans function 1

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	44 1st Func. Penta-Furans	NO	27.09	2204.045	54817.273	79.392	bb	8.4235	8.42

Penta-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	45 Total Penta-Furans	YES	28.41	131.862	54817.273	0.000	MM	0.0000	0.52
2	45 Total Penta-Furans	NO	28.54	1805.943	54817.273	66.503	MM	7.0559	7.06
3	45 Total Penta-Furans	NO	29.07	597.136	54817.273	22.227	MM	2.3583	2.36
4	45 Total Penta-Furans	YES	29.28	294.989	54817.273	0.000	MM	0.0000	0.92
5	9 1,2,3,7,8-PeCDF	NO	29.45	1824.568	57957.824	65.299	MM	6.7782	6.78
6	45 Total Penta-Furans	NO	29.69	854.611	54817.273	30.162	MM	3.2001	3.20
7	10 2,3,4,7,8-PeCDF	NO	30.33	949.106	51676.723	35.693	MM	3.5064	3.51
8	45 Total Penta-Furans	YES	30.35	412.314	54817.273	0.000	MM	0.0000	1.61

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-8.qld

Last Altered: Thursday, December 19, 2019 10:56:56 Pacific Standard Time

Printed: Thursday, December 19, 2019 10:58:57 Pacific Standard Time

Name: 191204D2_8, Date: 5-DEC-2019, Time: 13:09:20, ID: 1904016-06 PDI-141RAB-10-17.7-191107,
 Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Hexa-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	46 Total Hexa-Furans	YES	31.86	313.173	18394.330	0.000	MM	0.0000	1.92
2	46 Total Hexa-Furans	NO	32.02	1297.700	18394.330	84.679	bb	7.8339	7.83
3	46 Total Hexa-Furans	NO	32.56	4270.140	18394.330	289.105	bb	26.7458	26.75
4	11 1,2,3,4,7,8-HxCDF	NO	33.02	1899.863	19430.027	118.591	MM	10.0463	10.05
5	12 1,2,3,6,7,8-HxCDF	NO	33.15	413.010	20302.004	26.055	db	2.4300	2.43
6	13 2,3,4,6,7,8-HxCDF	NO	33.74	239.491	17569.203	17.039	MM	1.5253	1.53
7	46 Total Hexa-Furans	NO	34.72	227.773	18394.330	15.479	MM	1.4320	1.43

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	36.51	3959.928	10437.671	446.543	MM	39.4789	39.48
2	47 Total Hepta-Furans	NO	37.10	15075.357	9415.442	1856.859	MM	163.1379	163.14
3	16 1,2,3,4,7,8,9-HpCDF	NO	38.31	313.362	8393.212	45.553	MM	3.5481	3.55

Vista Analytical Laboratory

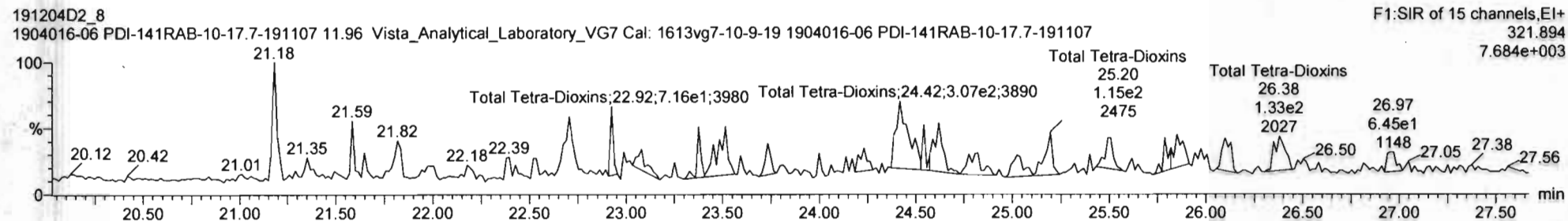
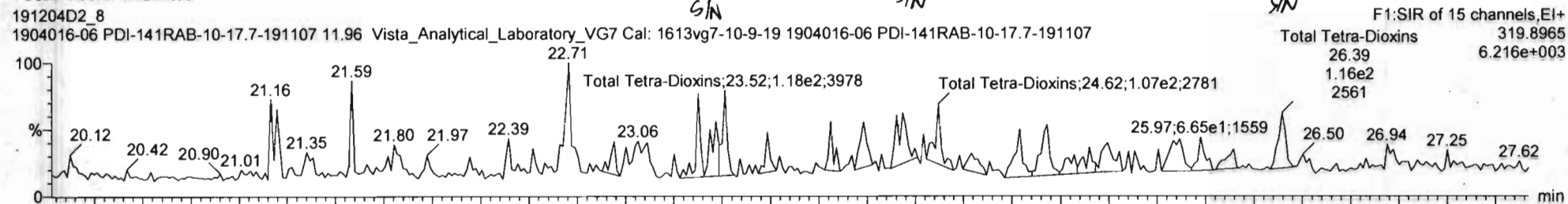
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

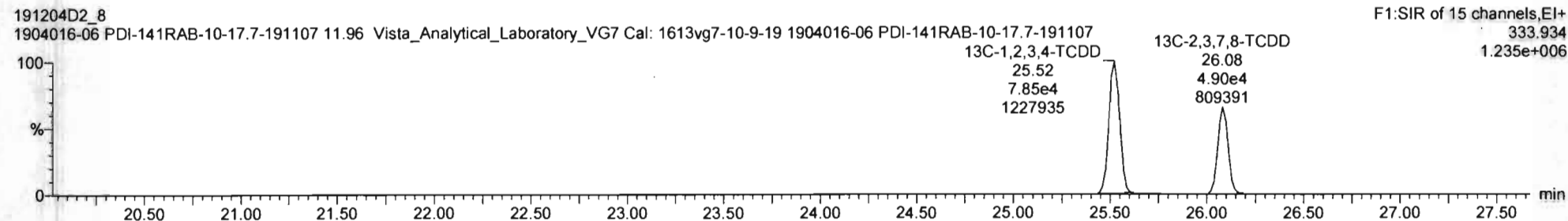
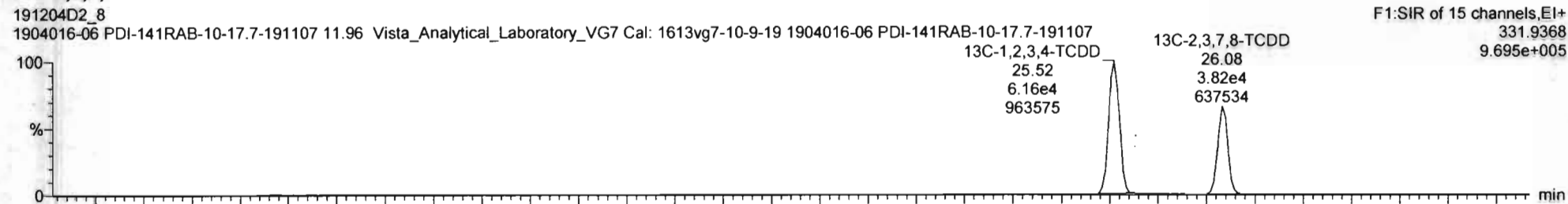
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Name: 191204D2_8, Date: 5-DEC-2019, Time: 13:09:20, ID: 1904016-06 PDI-141RAB-10-17.7-191107, Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Tetra-Dioxins



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

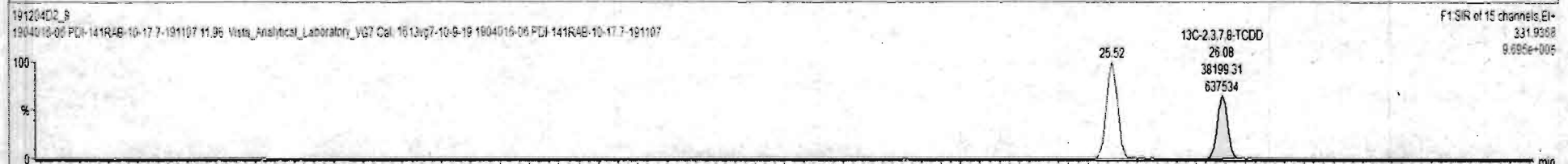
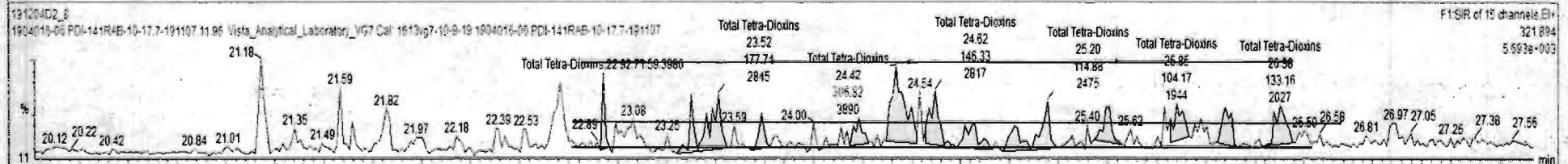
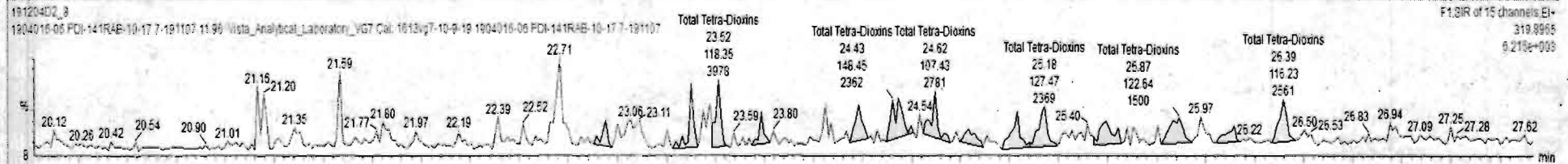




191204D2_8 - 1904016-06 PDI-141RAB-10-17-7-191107 - 1904016-06 PDI-141RAB-10-17-7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10.9.19

#	Name	Resp	IS Resp	ISF	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	2.90e4	1.34e5	38	0.41	NO	0.581	10.031	38.20	38.29	1.148	1.143	NO	74.22	37.2	0.645	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	Total Tetra-Dioxins	25.50	22.94	5.123e1	7.159e1	0.770	0.72	NO	0.31200	0.31161
2	Total Tetra-Dioxins	25.50	23.38	1.982e2	7.579e1	0.770	1.43	YES	0.34000	0.00000
3	Total Tetra-Dioxins	25.50	23.52	1.183e2	1.777e2	0.770	0.67	NO	0.75100	0.75117
4	Total Tetra-Dioxins	25.50	23.73	5.194e1	5.913e1	0.770	0.88	NO	0.28200	0.28178
5	Total Tetra-Dioxins	25.50	24.23	9.285e1	6.367e1	0.770	1.46	YES	0.28600	0.00000
6	Total Tetra-Dioxins	25.50	24.43	1.485e2	3.058e2	0.770	0.48	YES	0.86600	0.00000
7	Total Tetra-Dioxins	25.50	24.62	1.074e2	1.463e2	0.770	0.73	NO	0.84400	0.84378
8	Total Tetra-Dioxins	25.50	24.79	5.721e1	9.552e1	0.770	0.60	YES	0.33400	0.00000
9	Total Tetra-Dioxins	25.50	25.04	1.891e2	8.760e1	0.770	1.25	YES	0.39300	0.00000
10	Total Tetra-Dioxins	25.50	25.18	1.275e2	1.149e2	0.770	1.11	YES	0.51600	0.00000
11	Total Tetra-Dioxins	25.50	25.49	1.958e2	9.256e1	0.770	1.14	YES	0.41600	0.00000



Vista Analytical Laboratory

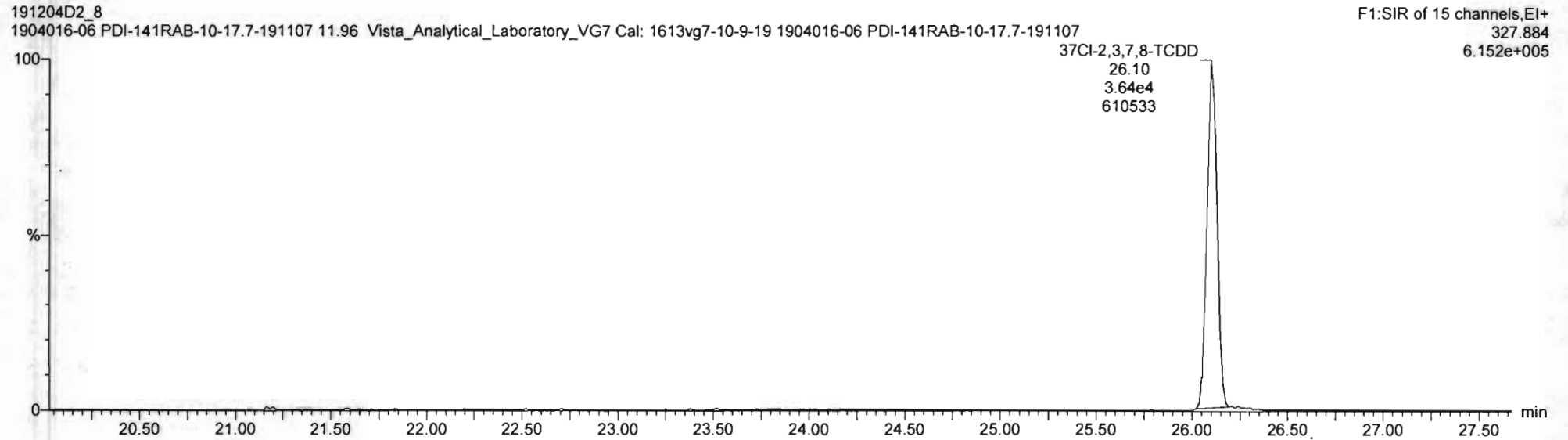
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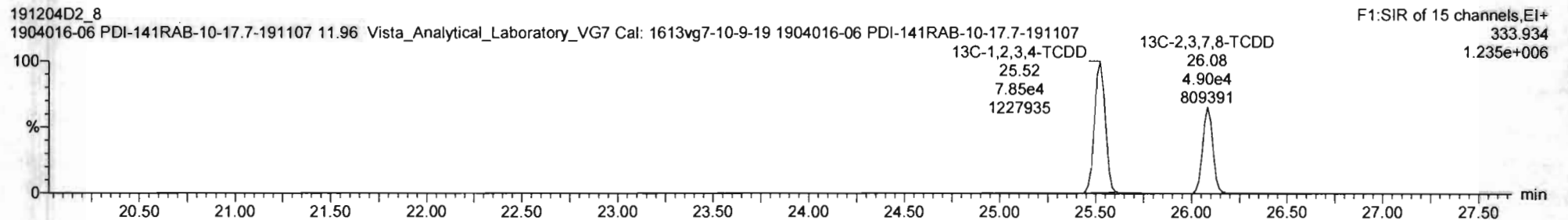
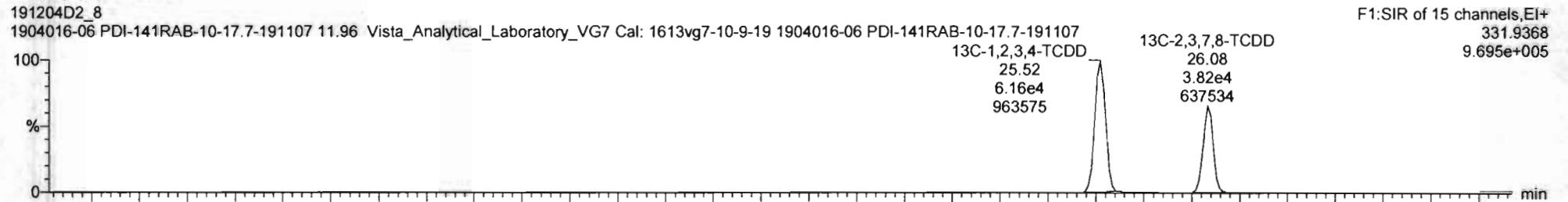
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Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

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



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



Vista Analytical Laboratory

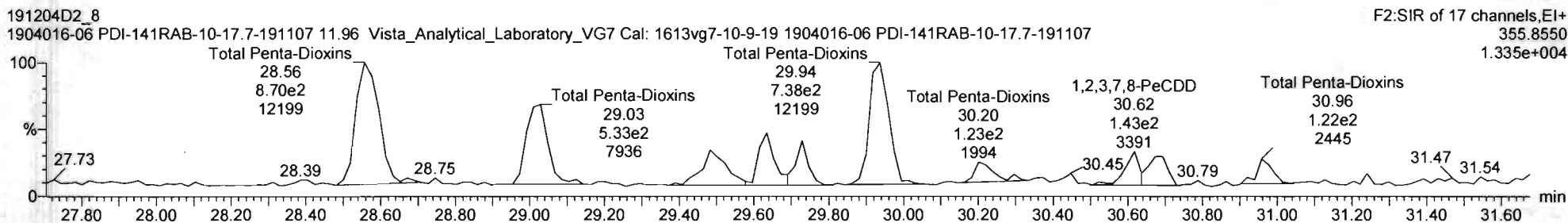
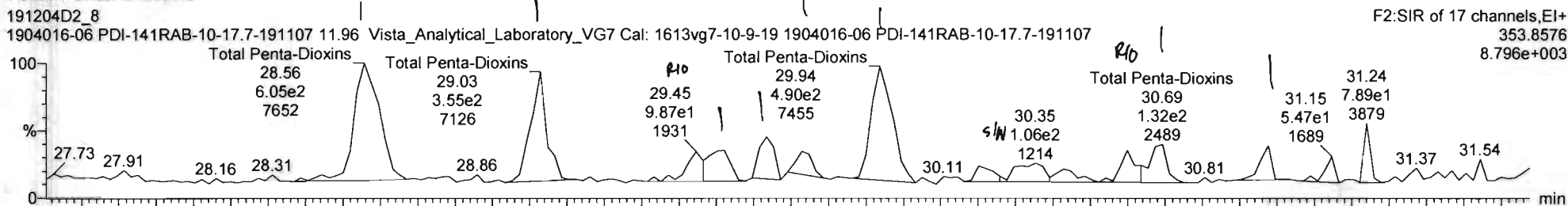
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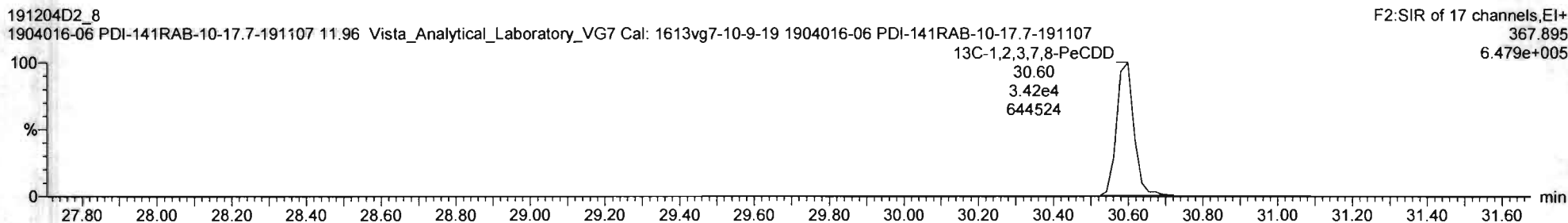
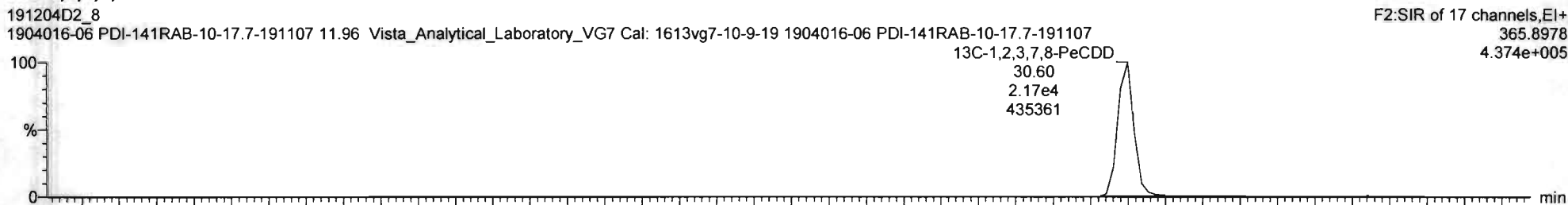
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Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Penta-Dioxins



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

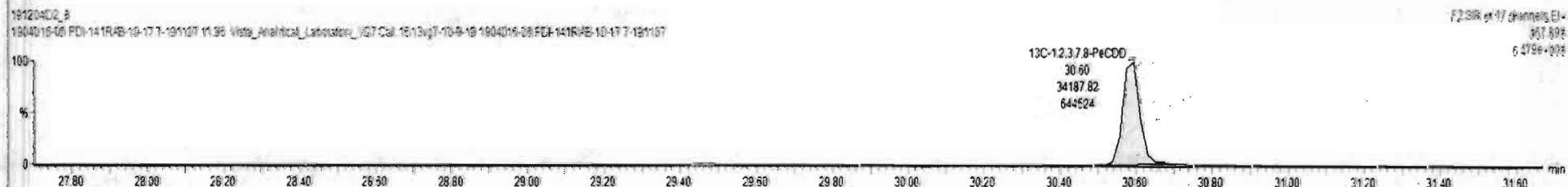
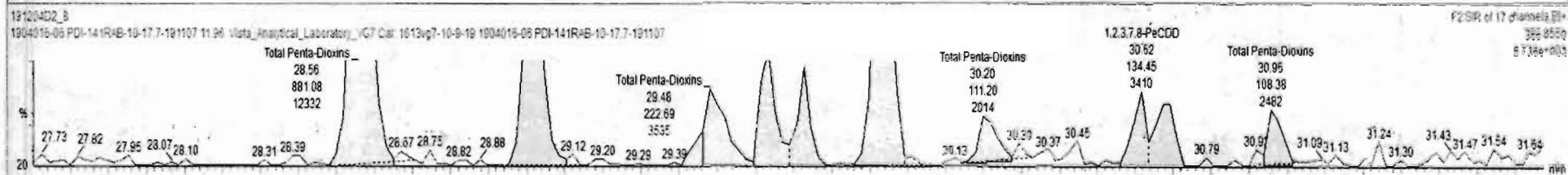
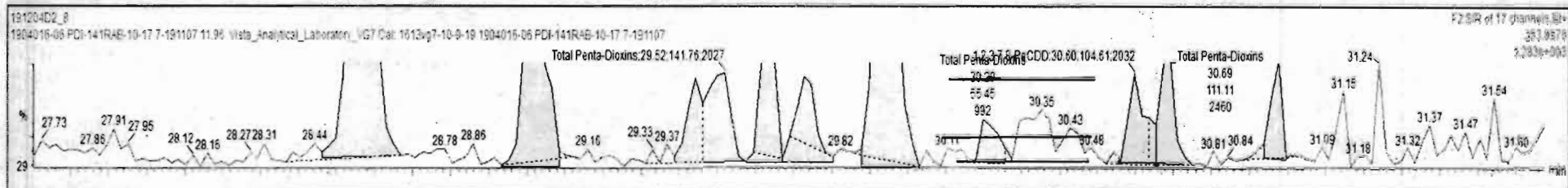




191204D2_8 - 1904016-06 PDI-141RAB-10-17-7-191107 - 1904016-06 PDI-141RAB-10-17-7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS4	RA	nLy	RPF	wVol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
40	Total Penta-Dioxins		5.58e1				0.872	10.031	30.00			0.000	NO	20.91		0.928	22.71

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nLy	EMPC	Conc.
1	40 Total Penta-Dioxins	30.00	28.56	5.755e2	8.611e2	0.630	0.66	NO	5.9685	5.9685
2	40 Total Penta-Dioxins	30.00	29.03	3.689e2	5.201e2	0.630	0.71	NO	3.6428	3.6428
3	40 Total Penta-Dioxins	30.00	29.45	8.390e1	5.179e1	0.630	1.82	YES	0.34557	0.00000
4	40 Total Penta-Dioxins	30.00	29.52	1.418e2	2.227e2	0.630	0.84	NO	1.4919	1.4919
5	40 Total Penta-Dioxins	30.00	29.63	1.436e2	2.506e2	0.630	0.57	NO	1.6137	1.6137
6	40 Total Penta-Dioxins	30.00	29.73	1.232e2	1.732e2	0.630	0.71	NO	1.2134	1.2134
7	40 Total Penta-Dioxins	30.00	29.94	5.082e2	7.238e2	0.630	0.70	NO	5.0431	5.0431
8	40 Total Penta-Dioxins	30.00	30.20	5.545e1	1.112e2	0.630	0.56	YES	0.58725	0.00000
9	2,1,2,3,7,8-PeCDD	30.62	30.60	1.046e2	1.345e2	0.630	0.78	YES	0.86680	0.00000
10	2,1,2,3,7,8-PeCDD	30.62	30.60	1.116e2	1.254e2	0.630	0.81	NO	1.1587	1.1587



Custom Reporting: Select reports to generate

191204D2_8

NUM

Vista Analytical Laboratory

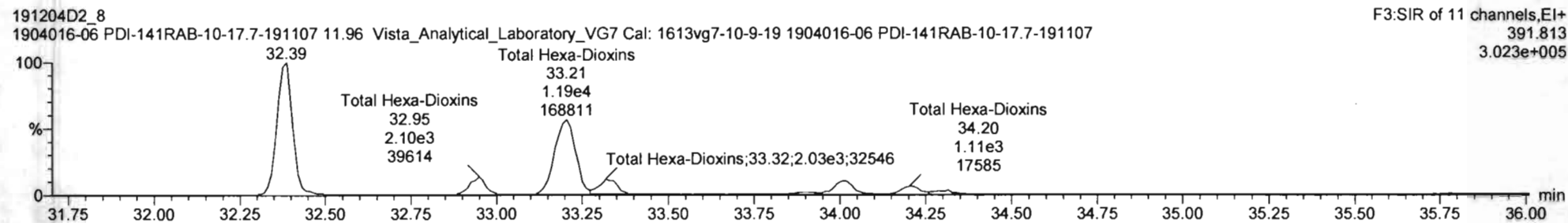
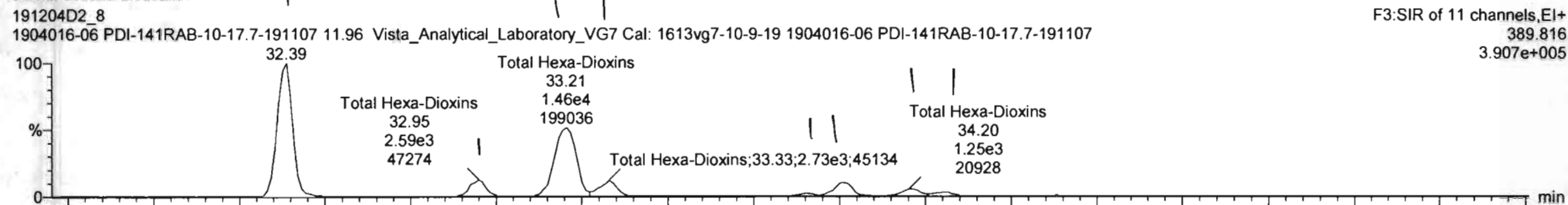
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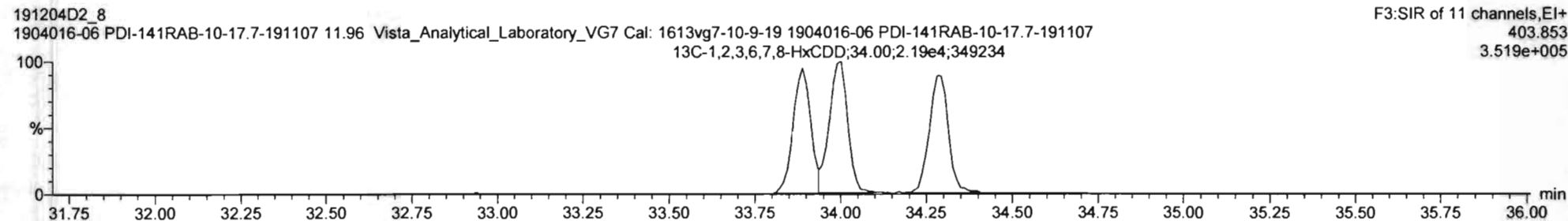
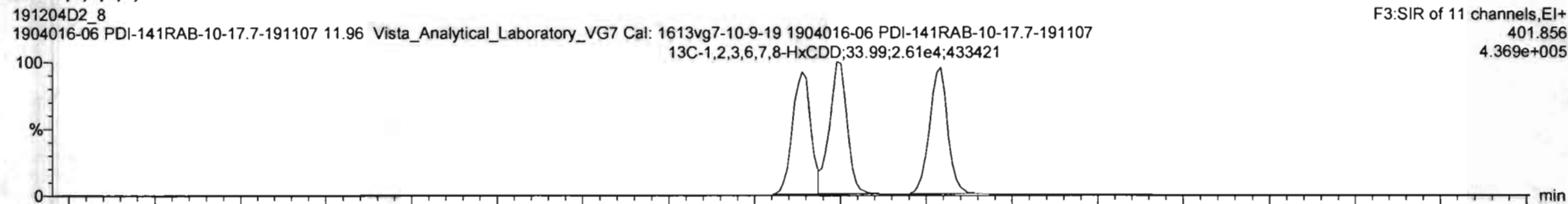
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Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hexa-Dioxins

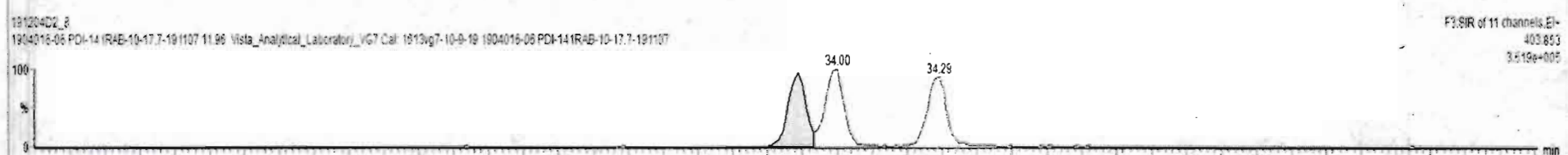
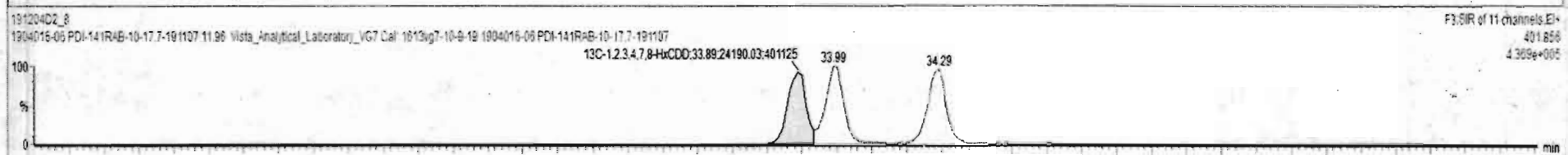
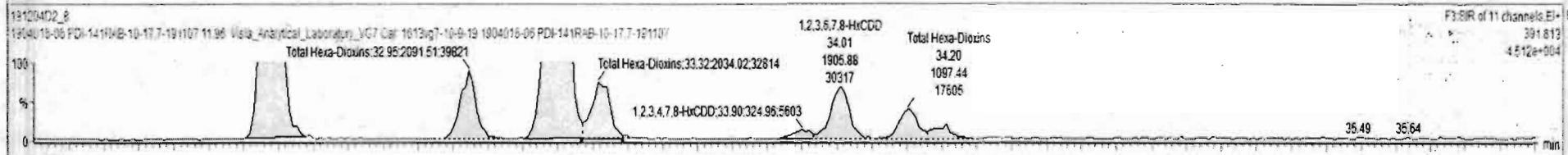
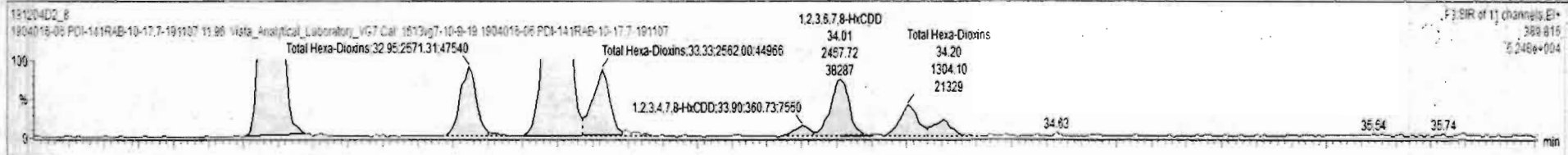


13C-1,2,3,4,7,8-HxCDD



#	Name	Resp	IS Resp	IS4	RA	n/y	RRF	wtdVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	1.97e5	1.97e5	37	0.79	NO	1.000	10.031	24.06	24.08	1.000	1.000	NO	199.4	100	0.557	
38	13C-1,2,3,4,6,9-HxCDF	1.34e5	1.34e5	38	0.51	NO	1.000	10.031	33.42	33.42	1.000	1.000	NO	199.4	100	0.536	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.80	32.39	1.990e4	1.560e4	1.240	1.28	NO	159.49	159.48
2	41 Total Hexa-Dioxins	33.80	32.95	2.571e3	2.092e3	1.240	1.23	NO	20.901	20.961
3	41 Total Hexa-Dioxins	33.80	33.21	1.457e4	1.190e4	1.240	1.22	NO	118.62	118.62
4	41 Total Hexa-Dioxins	33.80	33.33	2.562e3	2.034e3	1.240	1.26	NO	20.602	20.602
5	3 1,2,3,4,7,8-HxCDD	33.90	33.90	3.607e2	3.259e2	1.240	1.11	NO	2.8581	2.8581
6	4 1,2,3,6,7,8-HxCDD	33.99	34.01	2.458e3	1.909e3	1.240	1.29	NO	19.293	19.293
7	41 Total Hexa-Dioxins	33.80	34.20	1.304e3	1.097e3	1.240	1.19	NO	10.765	10.765
6	5 1,2,3,7,8,9-HxCDD	34.33	34.30	7.018e2	5.181e2	1.240	1.35	NO	5.5909	5.5909



Vista Analytical Laboratory

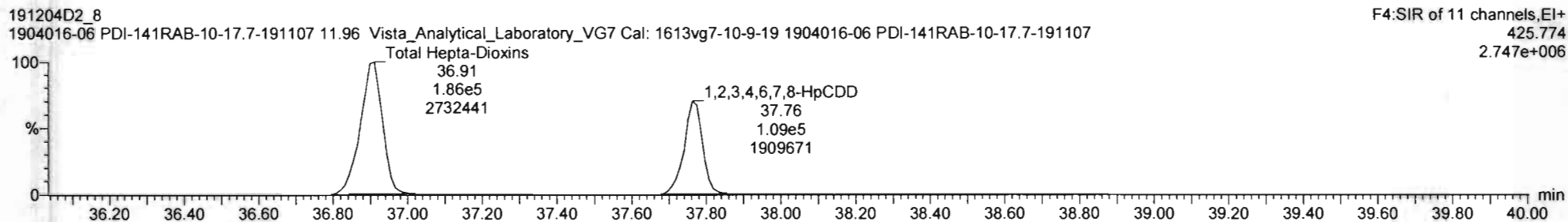
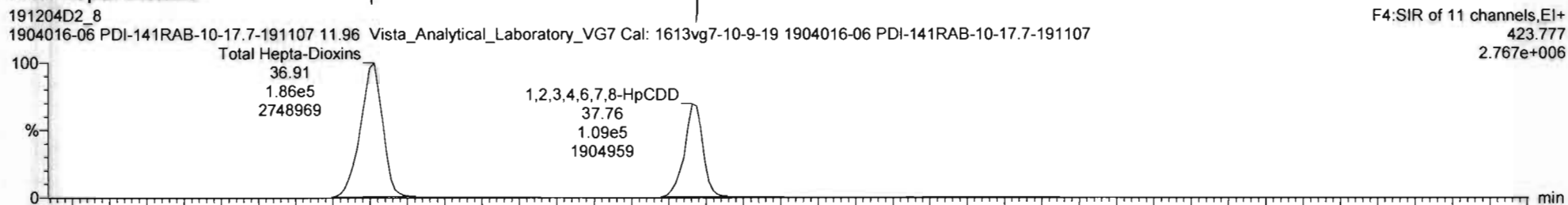
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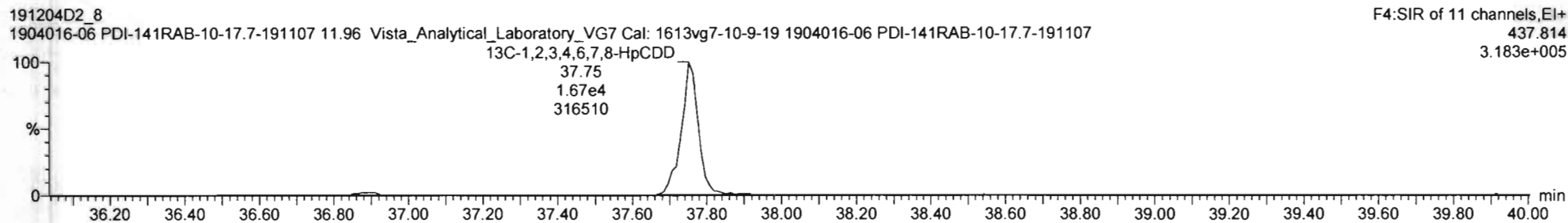
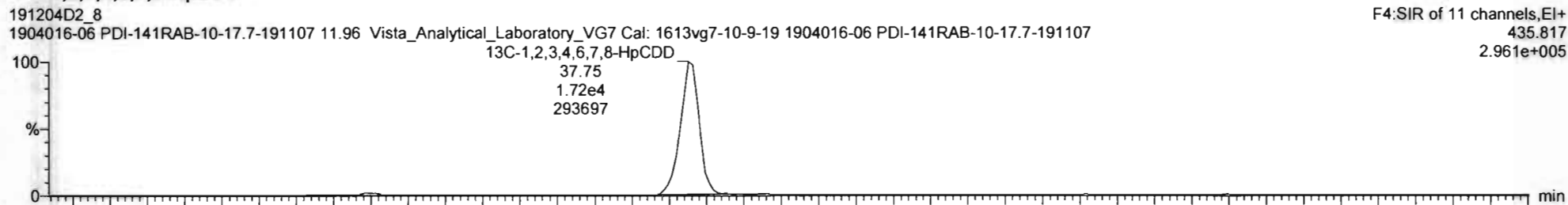
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 Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hepta-Dioxins



¹³C-1,2,3,4,6,7,8-HpCDD



Vista Analytical Laboratory

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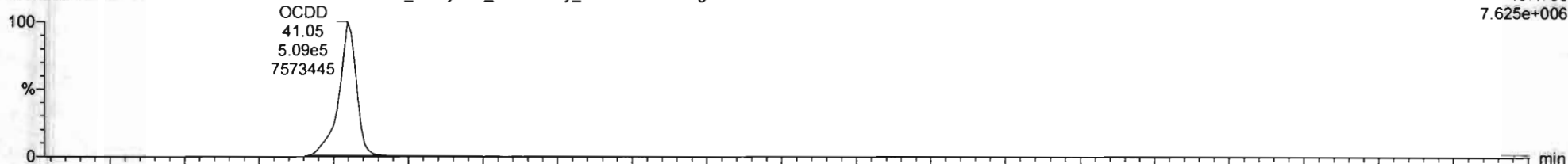
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OCDD

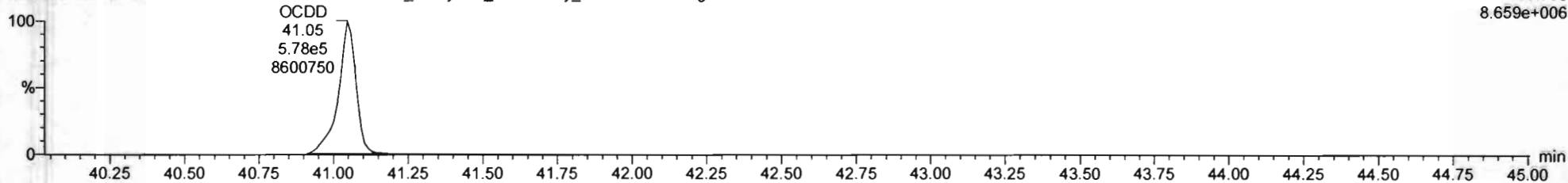
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F5:SIR of 11 channels,EI+
 457.738
 7.625e+006



191204D2_8
 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-06 PDI-141RAB-10-17.7-191107

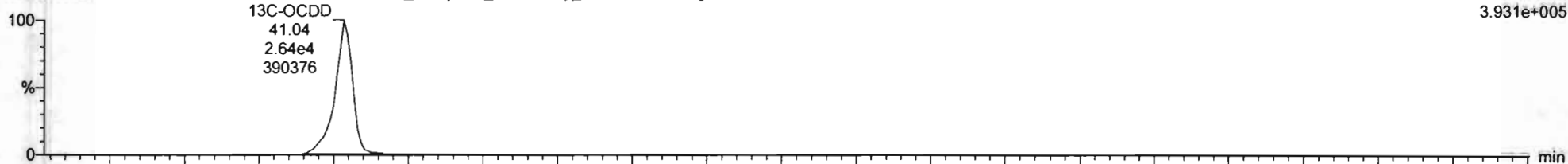
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 8.659e+006



13C-OCDD

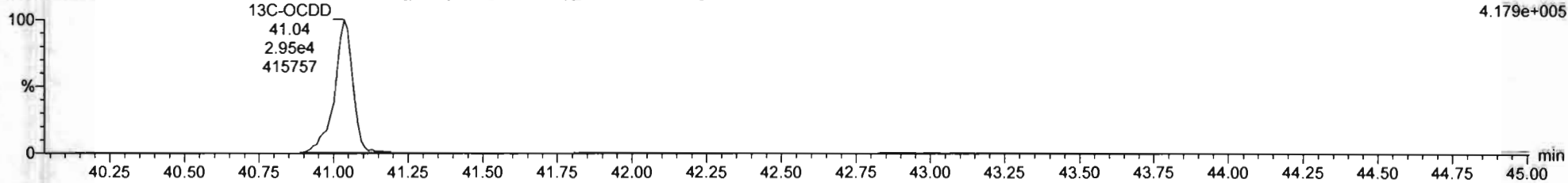
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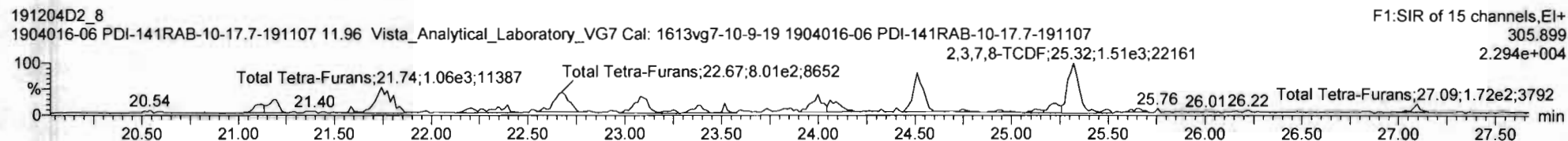
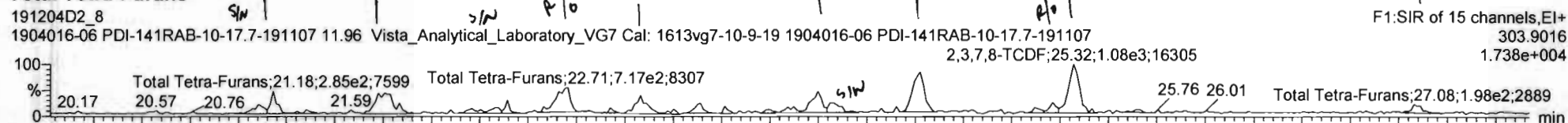
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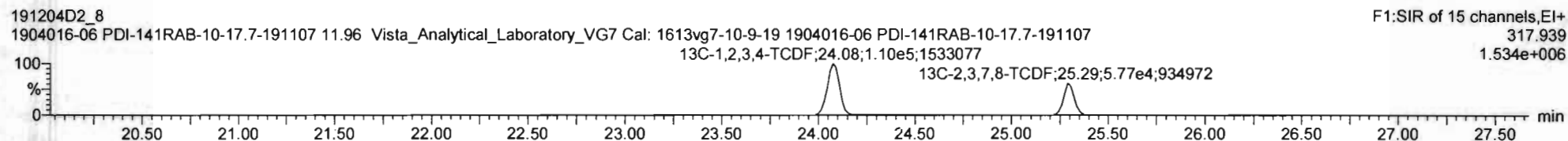
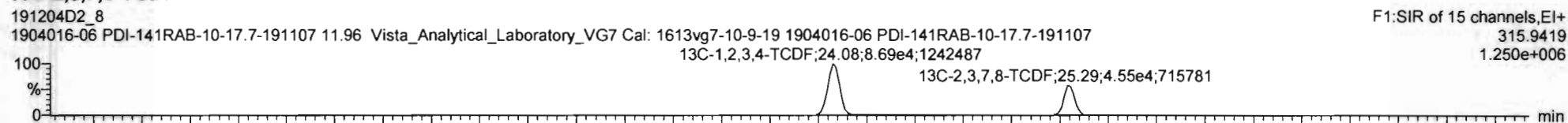


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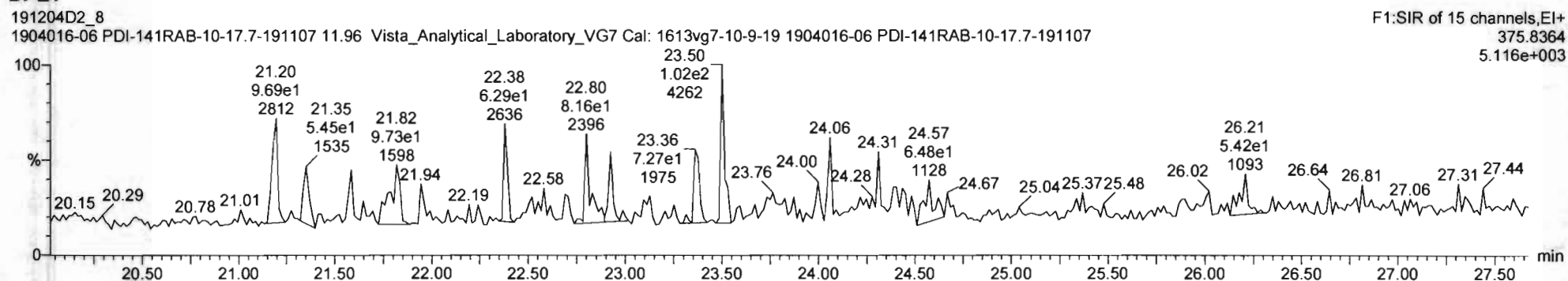
Total Tetra-Furans



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



DPE1

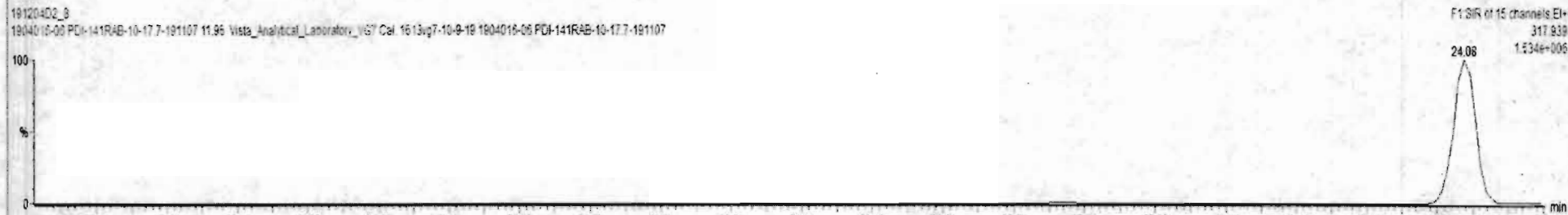
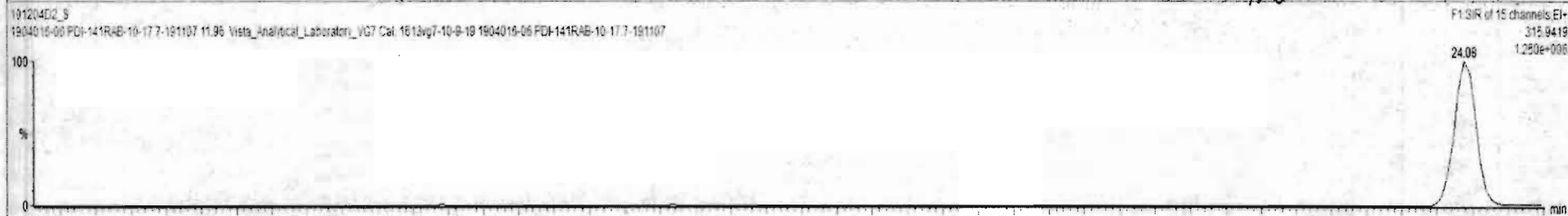
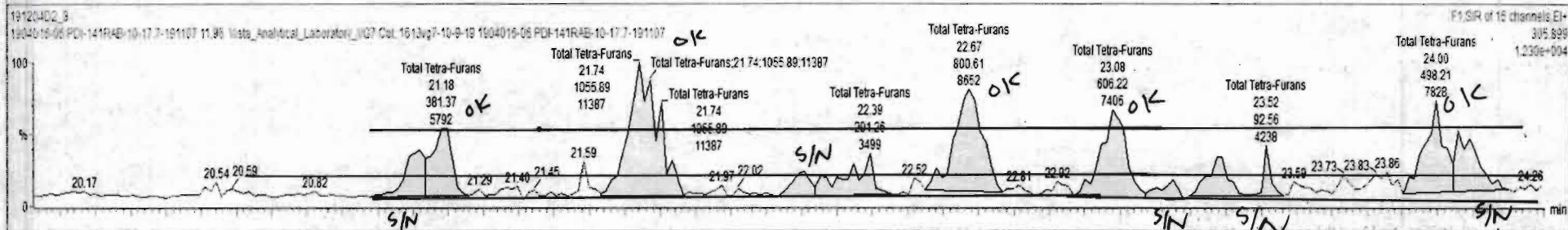
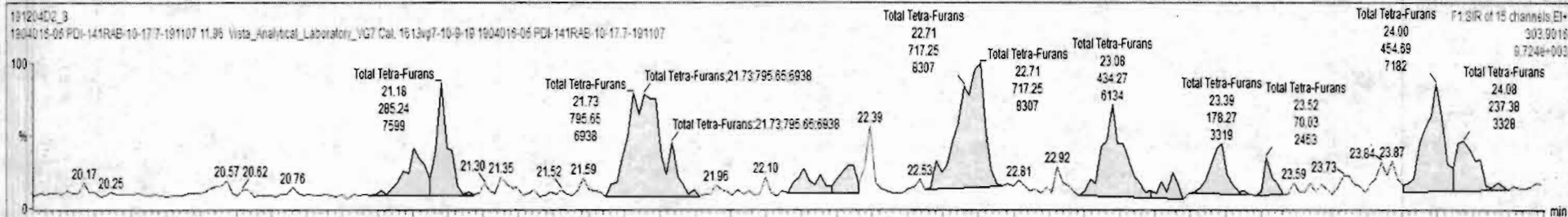




191204D2_8 - 1904016-06 PDI-141RAB-10-17-7-191107 - 1904016-06 PDI-141RAB-10-17-7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS4	RA	n/y	RRF	w/w	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
42	Total Hapta-Dioxins		3.38e4				0.999	10.931	37.75			0.000	NO	35.29		4.00	35.29
43	Total Tetra-Furans		1.03e5				0.943	10.031	24.00			0.000	NO	21.13		0.707	27.67

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	24.00	21.10	2.018e2	2.439e2	0.770	0.83	NO	0.91330	0.91330

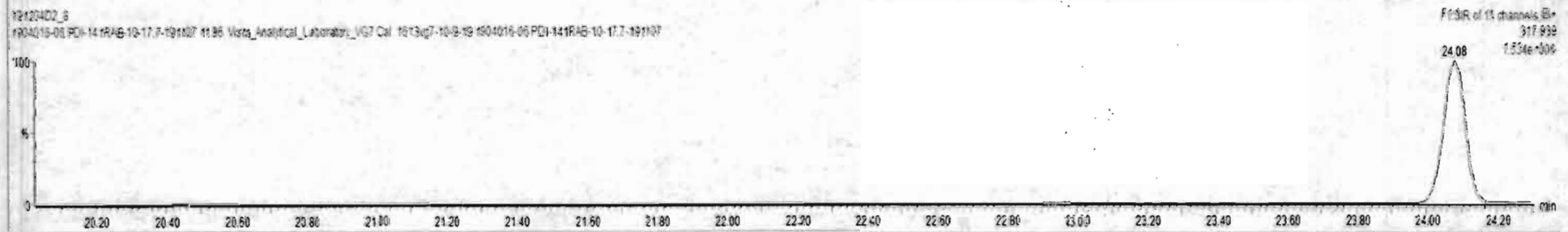
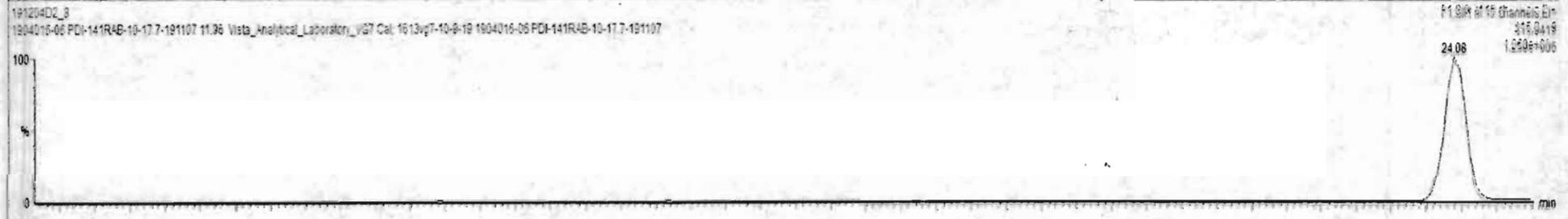
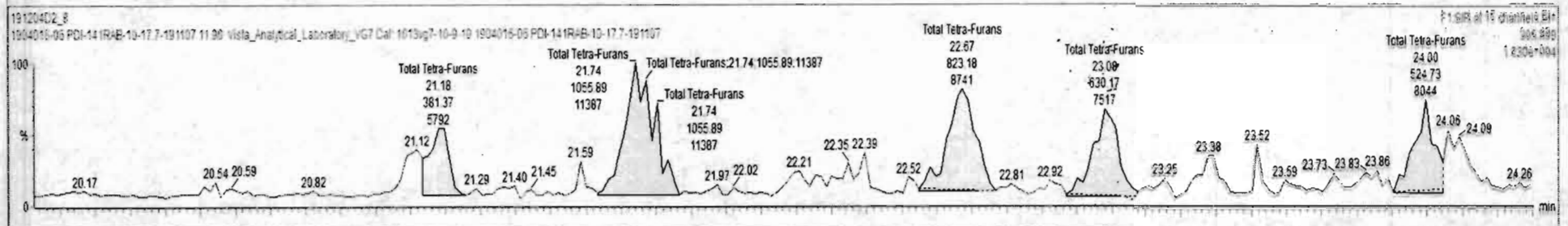
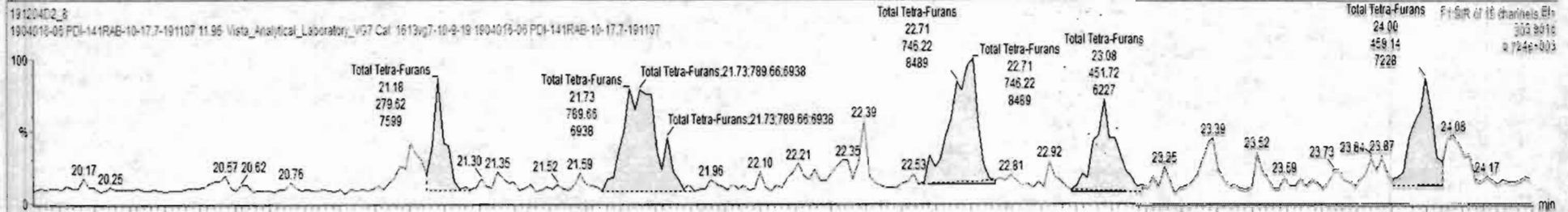




191204D2_8 - 1904016-06 PDI-141RAB-10-17-7-191107 - 1904016-06 PDI-141RAB-10-17-7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

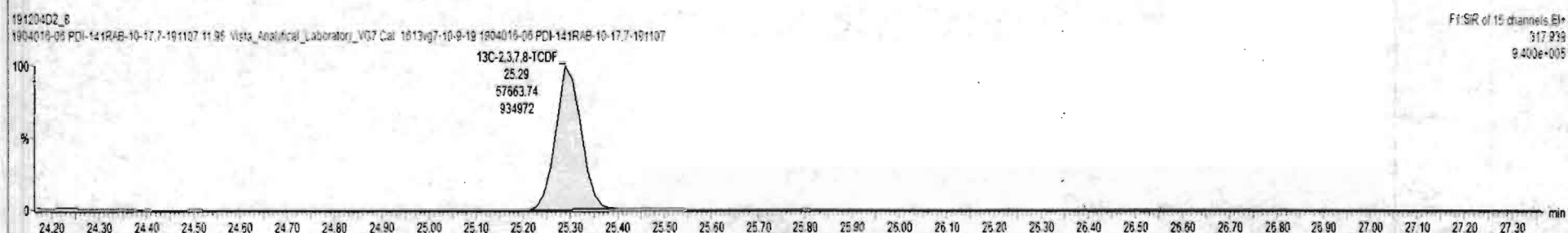
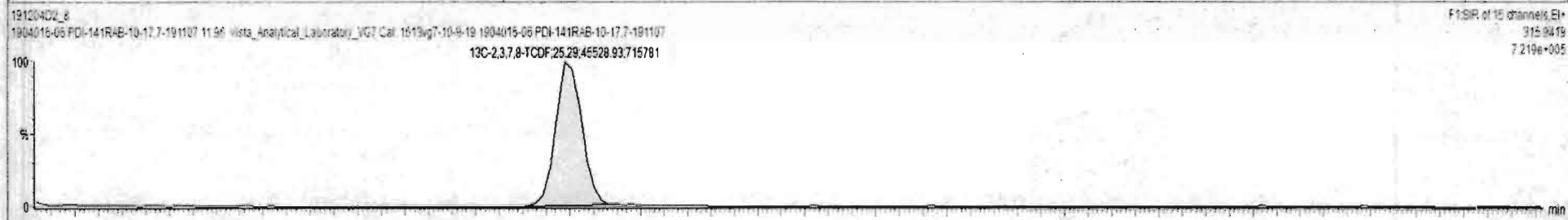
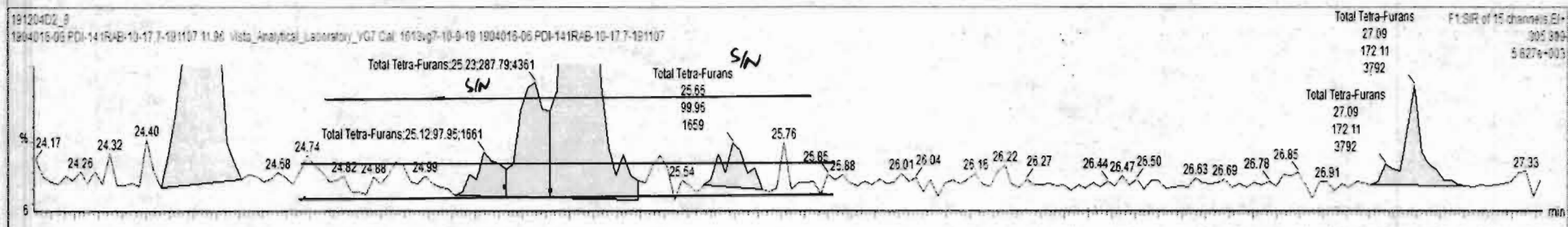
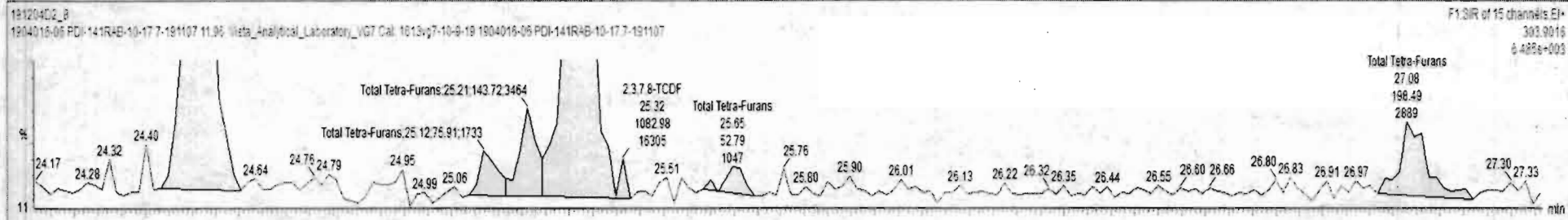
#	Name	Resp	IS Resp	IS#	RA	nly	RRF	w/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
42	Total Hecta-Cloixins		3.36e4				0.989	10.031	37.75			0.000	NO	3529		4.00	3529
43	Total Tetra-Furans		1.03e5				0.943	10.031	24.00			0.000	NO	19.13		0.787	23.86

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.
1	43 Total Tetra-Furans	24.00	21.18	2.795e2	3.814e2	0.770	0.73	NO	1.3546	1.3546



#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wfvol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins		3.38e4				0.989	10.031	37.75			0.000	NO	3529		4.00	3529
43	Total Tetra-Furans		1.03e5				0.943	10.031	24.00			0.000	NO	1913		0.707	23.66

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	24.00	21.18	2.756e2	3.614e2	0.770	0.73	NO	1.3546	1.3546

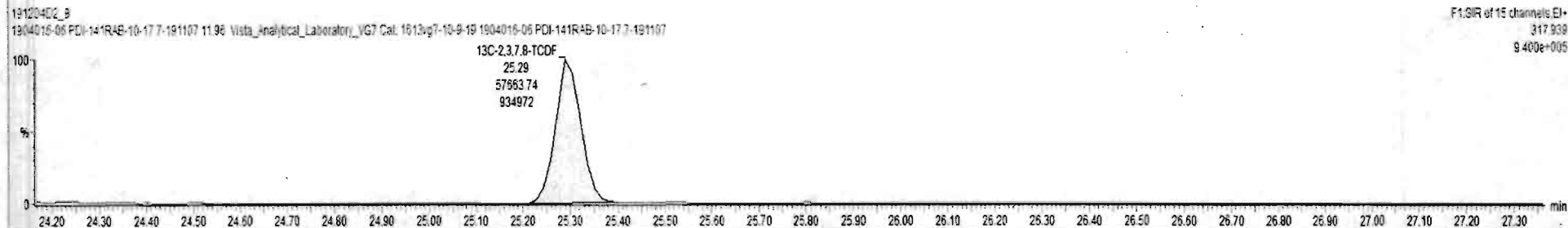
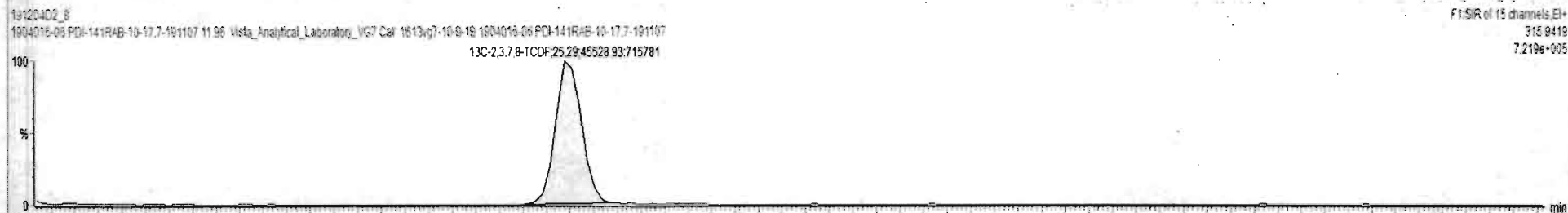
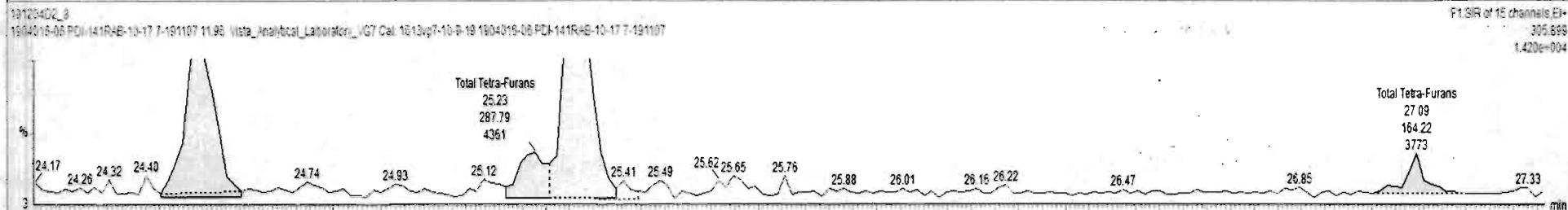
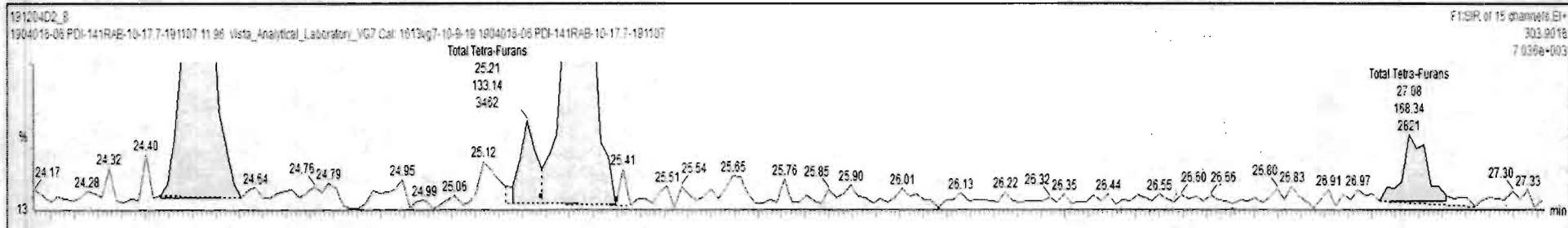




191204D2_8 - 1904016-06 PDI-141RAB-10-17-7-191107 - 1904016-06 PDI-141RAB-10-17-7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Resp	S Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
42	Total Hesta-Dioxins		3.36e4				0.889	10.031	37.75			0.000	NO	3529		4.00	3529
43	Total Tetra-Furans		1.03e5				0.943	10.031	24.00			0.000	NO	18.76		0.707	22.97

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	24.00	21.18	2.756e2	3.814e2	0.770	0.73	NO	1.3546	1.3546



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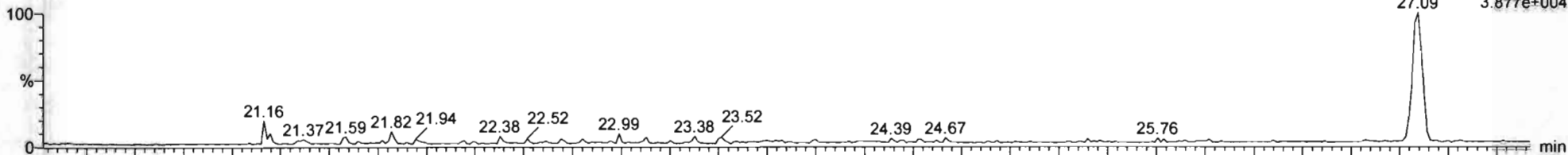
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Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

1st Func. Penta-Furans

191204D2_8

1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-06 PDI-141RAB-10-17.7-191107

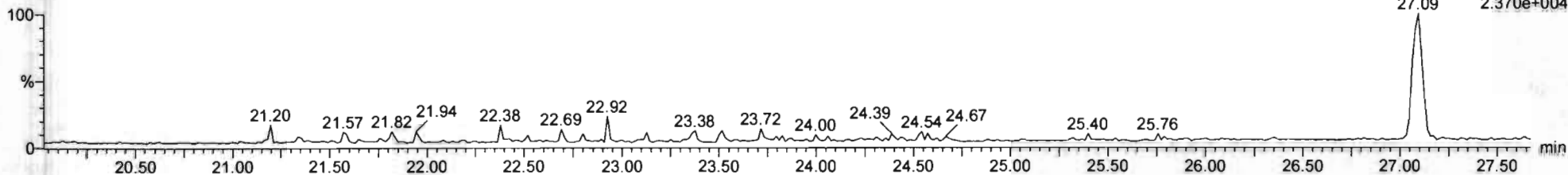
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27.09 3.877e+004



191204D2_8

1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-06 PDI-141RAB-10-17.7-191107

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27.09 2.370e+004

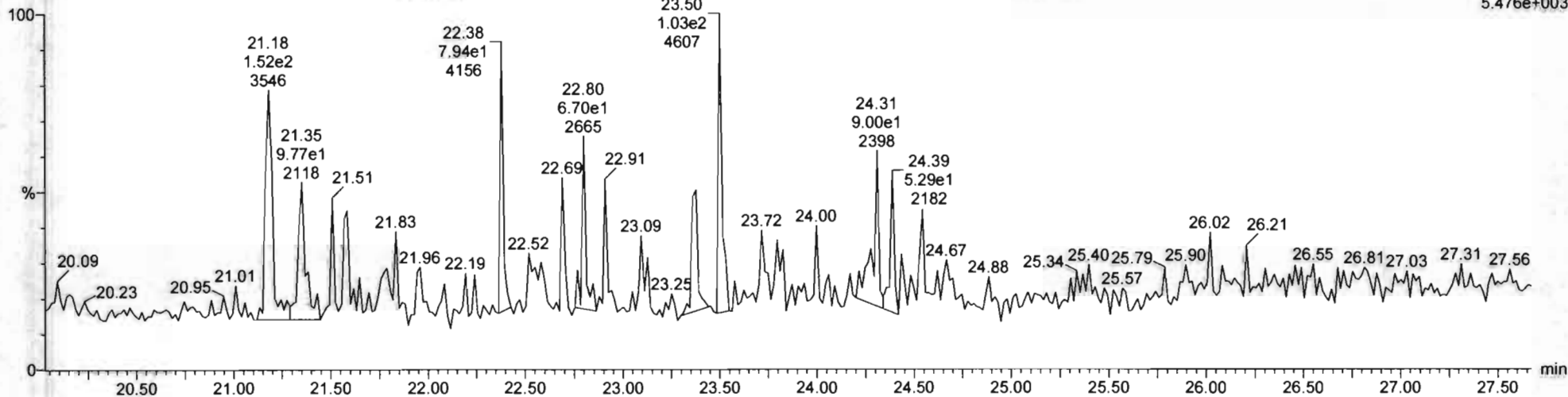


DPE6

191204D2_8

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F1:SIR of 15 channels,EI+
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23.50 5.476e+003



Vista Analytical Laboratory

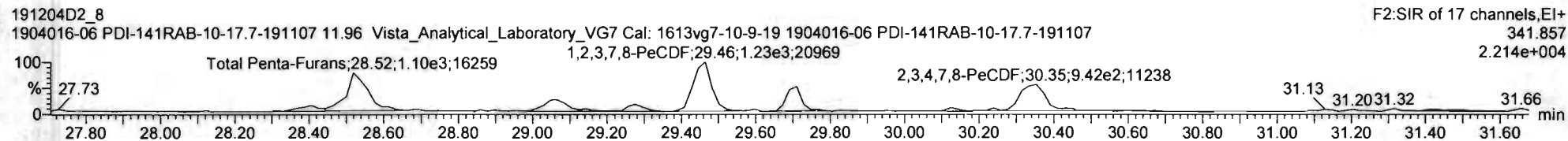
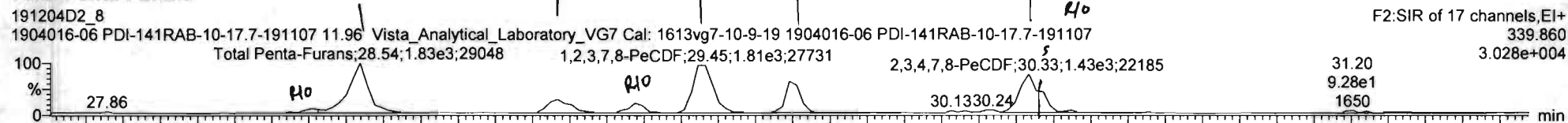
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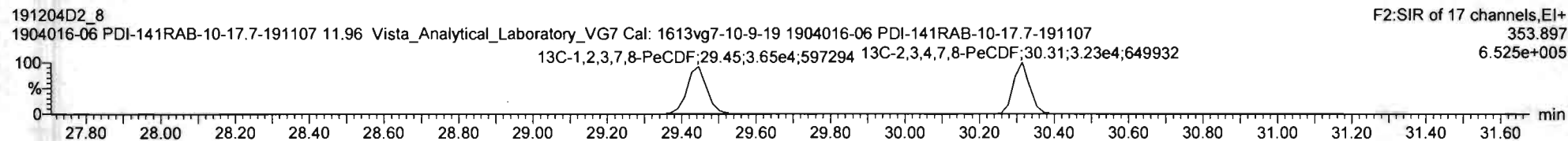
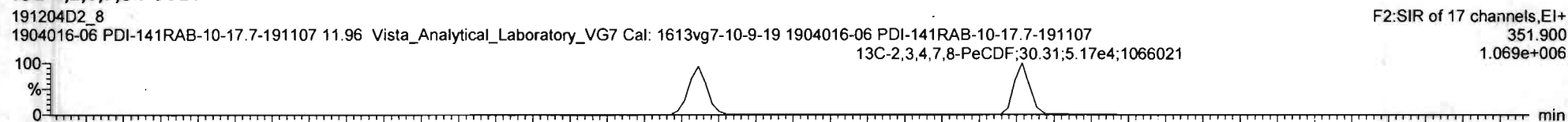
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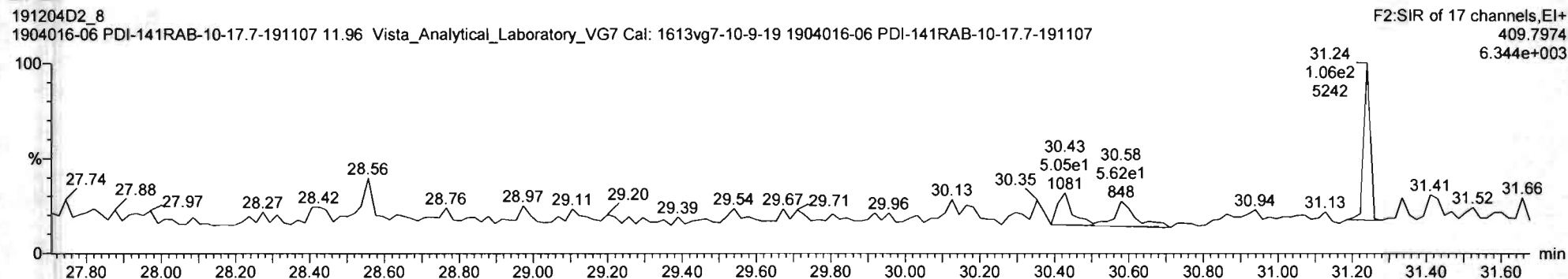
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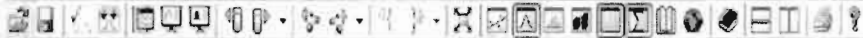


13C-1,2,3,7,8-PeCDF



DPE2

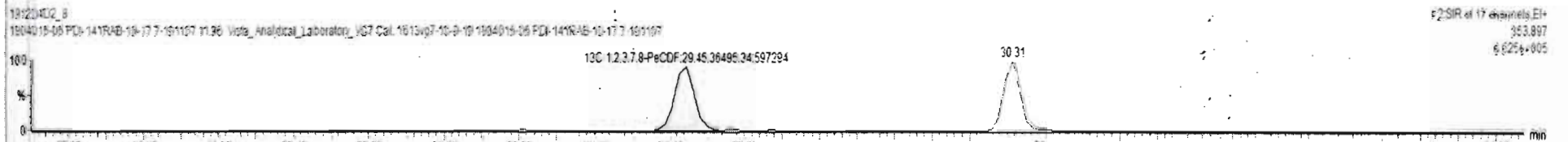
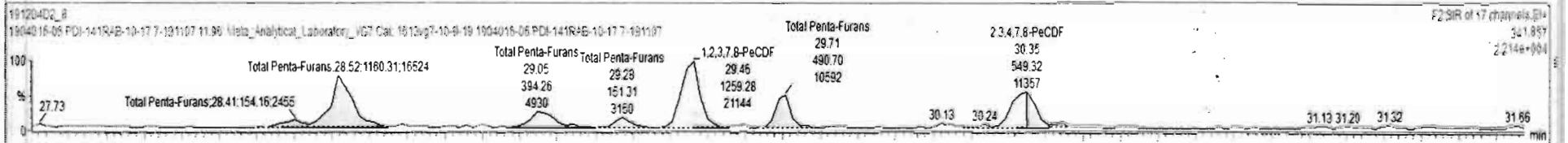
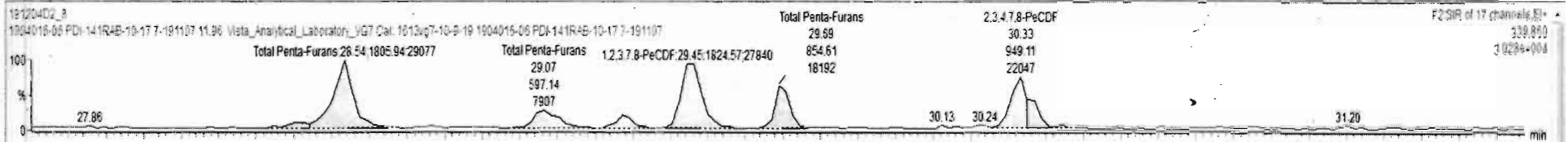




191204D2_8 - 1904016-06 PDI-141RAB-10-17-7-191107 - 1904016-06 PDI-141RAB-10-17-7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Resp	IS Resp	ESF	RA	nly	RRF	wtdvol	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins		8.72e4				0.901	10.031	25.50			0.000	NO			0.384	
40	Total Penta-Dioxins		5.58e4				0.672	10.031	30.00			0.000	NO	20.91		0.928	22.12
41	Total Hexa-Dioxins		0.00e0				0.976	10.031	33.80			0.000	NO	358.1		1.35	358.1
42	Total Hepta-Dioxins		3.38e4				0.569	10.031	37.75			0.000	NO	3529		4.90	3529
43	Total Tetra-Furans		1.03e5				0.943	10.031	24.00			0.000	NO	18.76		0.707	22.97
44	1st Func. Penta-Furans		0.00e0				0.940	10.031	27.63			0.000	NO	8.424		0.686	8.424
45	Total Penta-Furans		0.00e0				0.940	10.031	30.00			0.000	NO	22.90		0.435	25.95
46	Total Hexa-Furans		0.00e0				1.078	10.031	33.00			0.000	NO	50.33		0.542	52.25

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.
1	Total Penta-Furans	30.00	28.41	1.319e2	1.542e2	1.550	0.86	YES	0.51603	0.00000
2	Total Penta-Furans	30.00	28.54	1.806e3	1.160e3	1.550	1.56	NO	7.0559	7.0559
3	Total Penta-Furans	30.00	29.07	5.971e2	3.943e2	1.550	1.51	NO	2.3583	2.3583
4	Total Penta-Furans	30.00	29.28	2.950e2	1.513e2	1.550	1.95	YES	0.91782	0.60000
5	1,2,3,7,8-PeCDF	29.47	29.45	1.625e3	1.259e3	1.550	1.45	NO	6.7782	6.7782
6	Total Penta-Furans	30.00	29.89	8.548e2	4.907e2	1.550	1.74	NO	3.2601	3.2601
7	2,3,4,7,8-PeCDF	30.35	30.33	9.491e2	5.492e2	1.550	1.73	NO	3.5064	3.5064
8	Total Penta-Furans	30.00	30.35	4.123e2	3.167e2	1.550	1.90	YES	1.6135	0.00000



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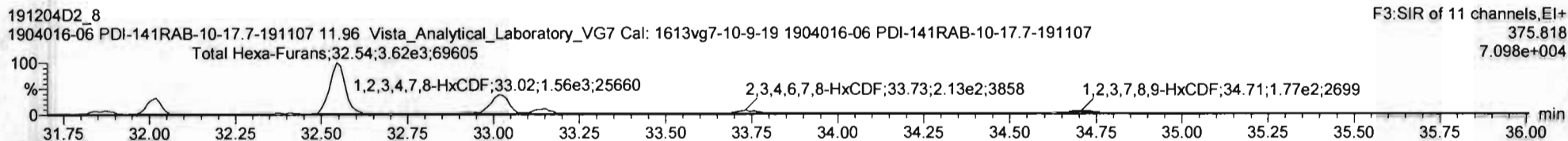
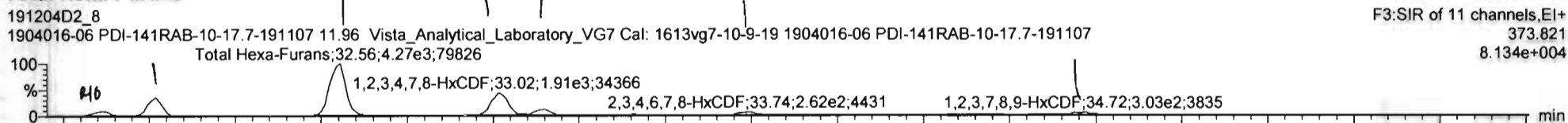
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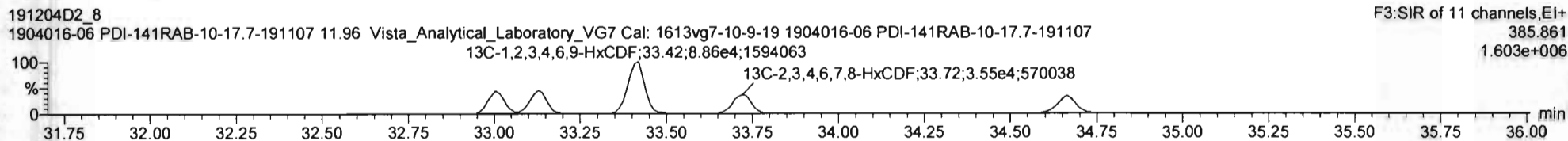
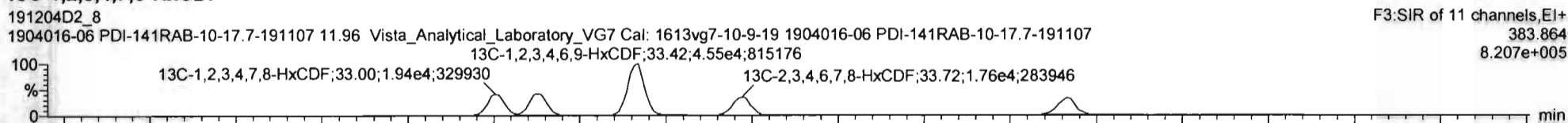
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Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

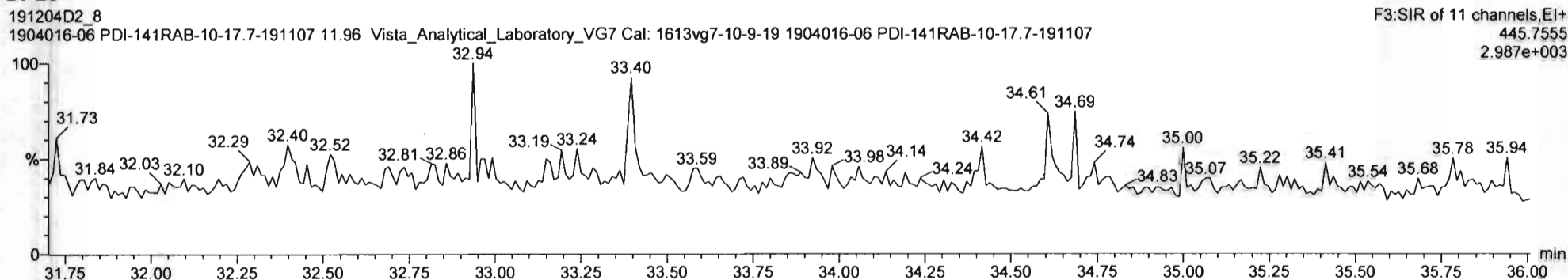
Total Hexa-Furans



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

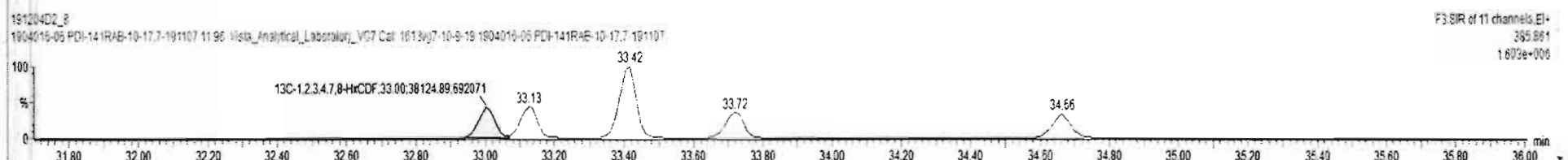
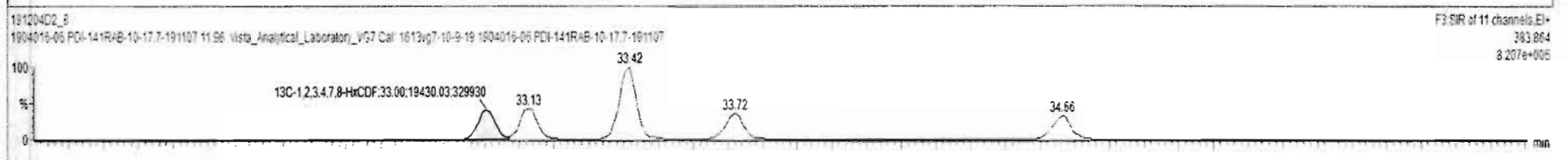
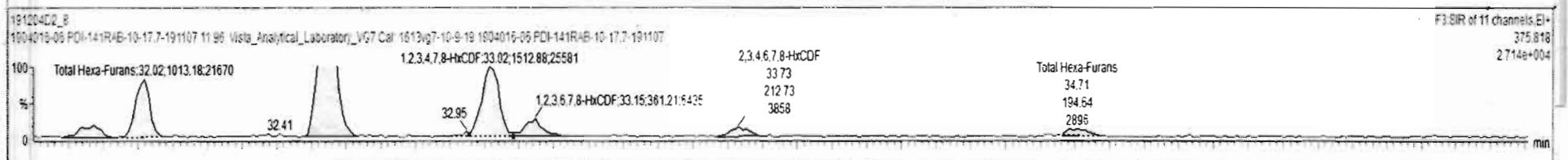
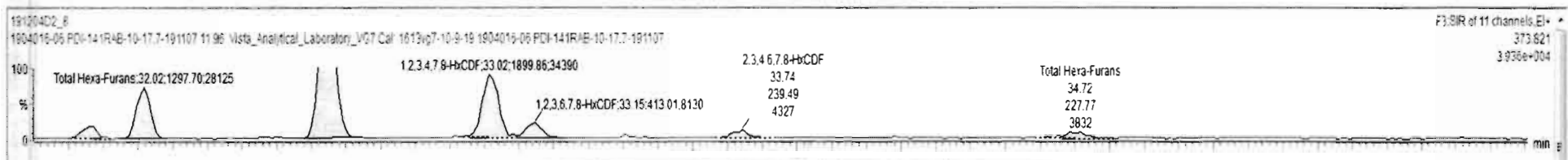


DPE3



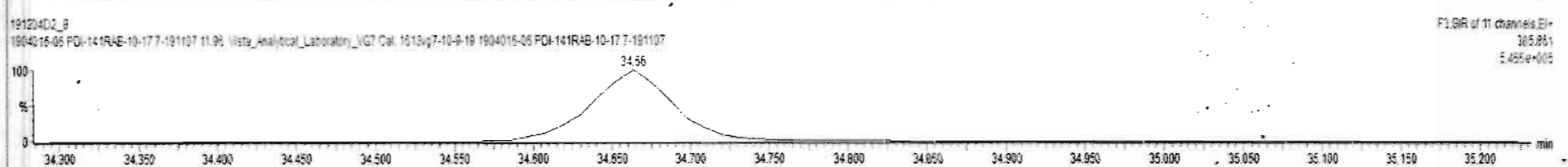
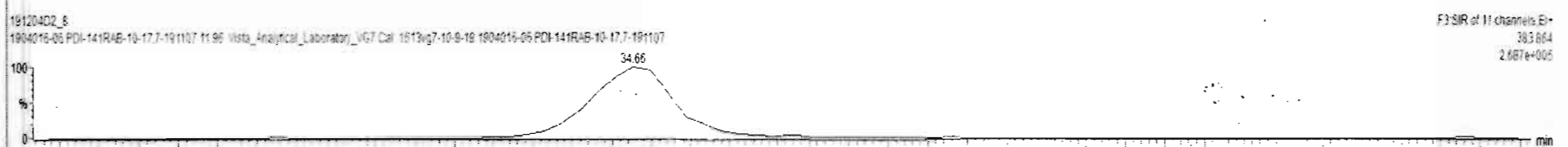
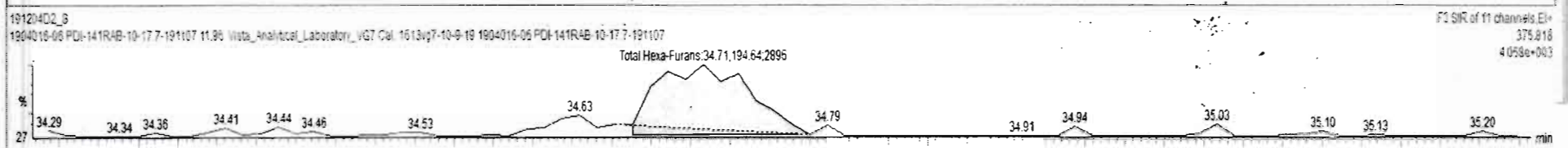
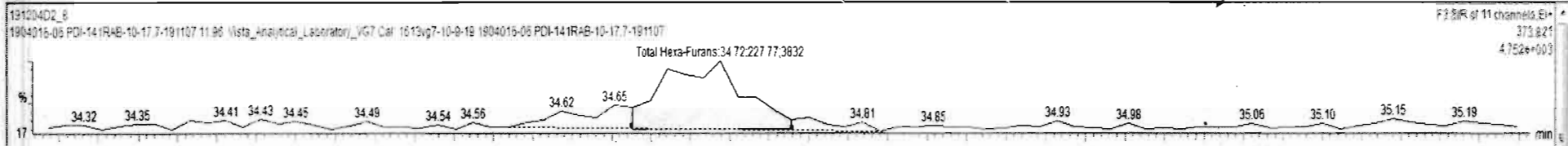
#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
41	41 Total Hexa-Dioxins	0.00e0					0.976	10.031	23.80			0.000	NO	358.1		1.35	358.1
42	42 Total Hepta-Dioxins	3.36e4					0.989	10.031	37.75			0.000	NO	3529		4.00	3529
43	43 Total Tetra-Furans	1.02e5					0.943	10.031	24.00			0.000	NO	18.76		0.707	22.97
44	44 1st Func. Penta-Furans	0.00e0					0.940	10.031	27.63			0.000	NO	8.424		0.686	8.424
45	45 Total Penta-Furans	0.00e0					0.940	10.031	30.00			0.000	NO	22.90		0.435	25.95
46	46 Total Hexa-Furans	0.00e0					1.078	10.031	33.00			0.000	NO	50.01		0.542	51.93
47	47 Total Hepta-Furans	0.00e0					1.135	10.031	37.75			0.000	NO	206.2		1.06	206.2
48	48 PFK1																

#	Name	Pred RT	RT	mt Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.00	31.86	3.132e2	3.079e2	1.240	1.02	YES	1.9178	0.00000
2	Total Hexa-Furans	33.00	32.02	1.298e3	1.013e3	1.240	1.26	NO	7.8339	7.8339
3	46 Total Hexa-Furans	33.00	32.56	4.270e3	3.619e3	1.240	1.16	NO	26.746	26.746
4	11 1,2,3,4,7,8-HxCDF	33.00	33.02	1.900e3	1.513e3	1.240	1.26	NO	10.046	10.046
5	12 1,2,3,6,7,8-HxCDF	33.14	33.15	4.130e2	3.612e2	1.240	1.14	NO	2.4300	2.4300
6	13 2,3,4,6,7,8-HxCDF	33.76	33.74	2.395e2	2.127e2	1.240	1.13	NO	1.5253	1.5253
7	46 Total Hexa-Furans	33.00	34.72	2.278e2	1.946e2	1.240	1.17	NO	1.4320	1.4320



#	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				0.578	10.031	33.80			0.000	NO	358.1		1.35	358.1
42	Total Hepta-Dioxins		3.36e4				0.959	10.031	37.75			0.000	NO	3529		4.90	3529
43	Total Tetra-Furans		1.03e5				0.943	10.031	24.00			0.000	NO	16.76		0.797	22.97
44	1st Func. Penta-Furans		0.00e0				0.940	10.031	27.63			0.000	NO	8.424		0.886	8.424
45	Total Penta-Furans		0.00e0				0.940	10.031	30.00			0.000	NO	22.90		0.435	25.95
46	Total Hexa-Furans		0.00e0				1.078	10.031	33.00			0.000	NO	50.01		0.542	51.93
47	Total Hepta-Furans		0.00e0				1.135	10.031	37.75			0.000	NO	206.2		1.96	206.2
48	PFK1																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	46 Total Hexa-Furans	33.00	31.86	3.132e2	3.079e2	1.240	1.02	YES	1.9178	0.00000
2	46 Total Hexa-Furans	33.00	32.02	1.290e3	1.013e3	1.240	1.26	NO	7.8339	7.8339
3	46 Total Hexa-Furans	33.00	32.58	4.270e3	3.619e3	1.240	1.18	NO	26.748	26.748
4	11 1,2,3,4,7,8-HxCDF	33.00	33.02	1.900e3	1.513e3	1.240	1.26	NO	10.946	10.946
5	12 1,2,3,6,7,8-HxCDF	33.14	33.15	4.130e2	3.612e2	1.240	1.14	NO	2.4300	2.4300
6	13 2,3,4,6,7,8-HxCDF	33.76	33.74	2.395e2	2.127e2	1.240	1.13	NO	1.5253	1.5253
7	46 Total Hexa-Furans	33.00	34.72	2.279e2	1.946e2	1.240	1.17	NO	1.4320	1.4320



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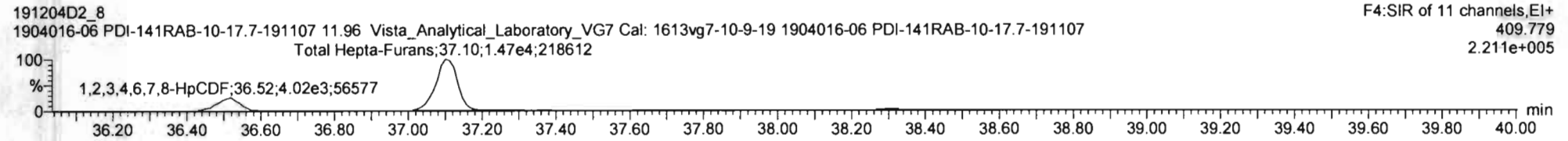
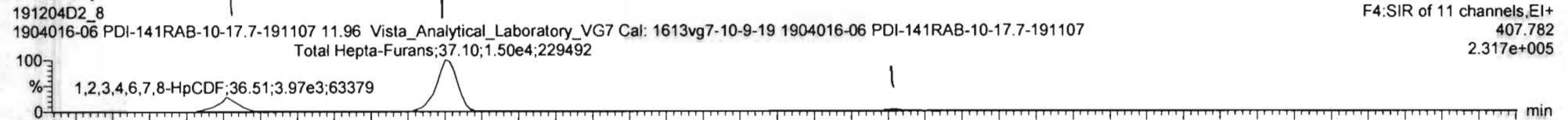
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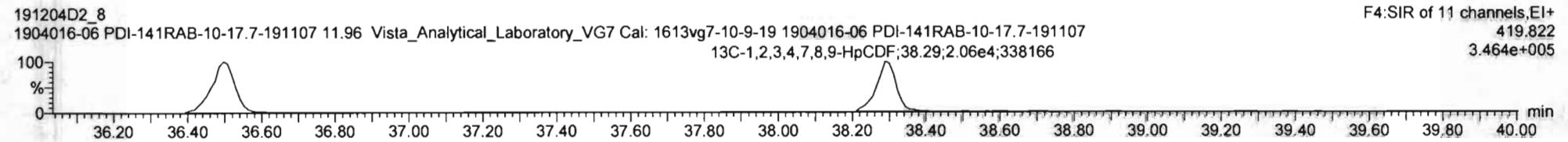
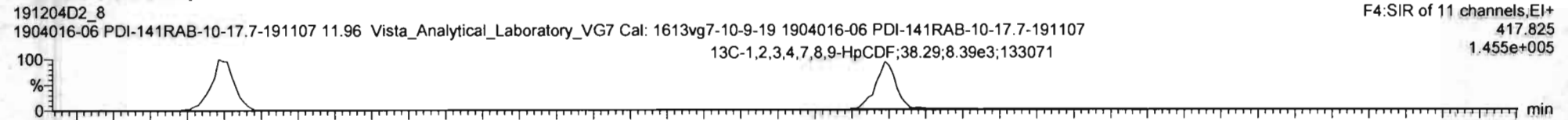
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Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

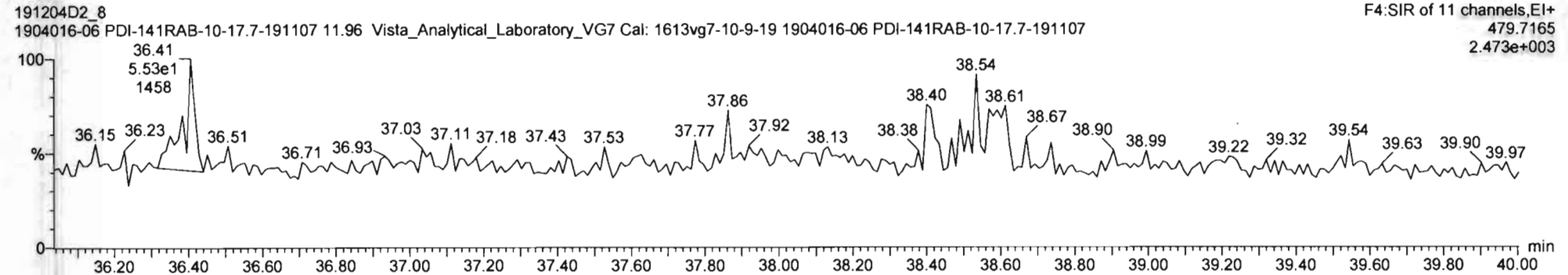
Total Hepta-Furans



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

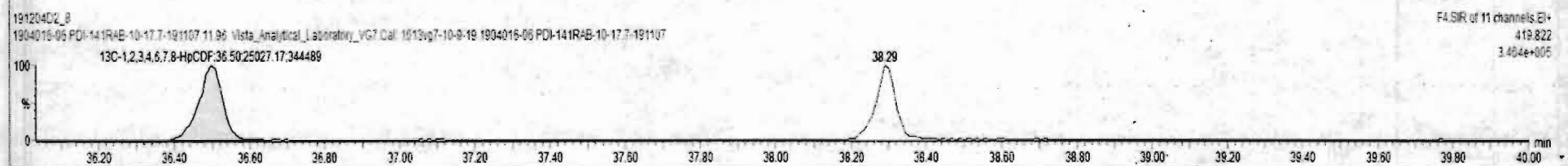
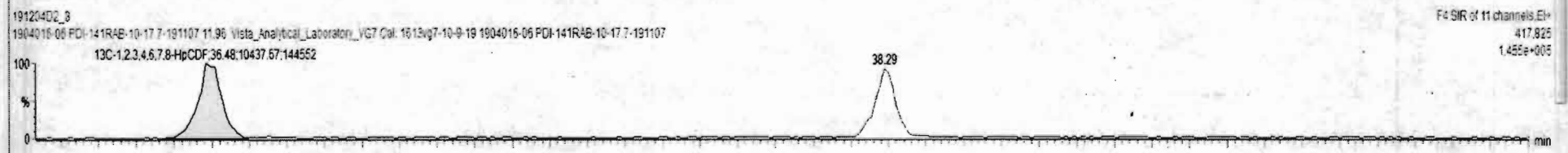
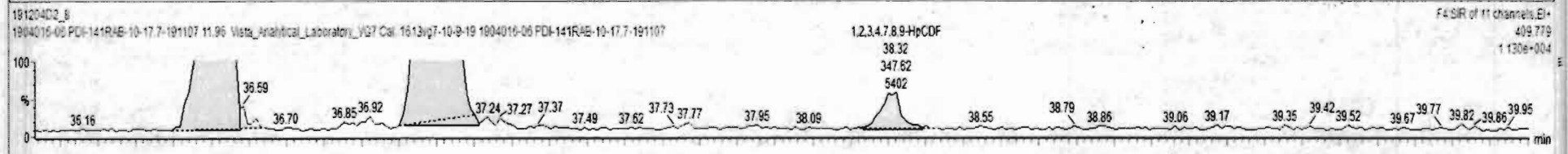
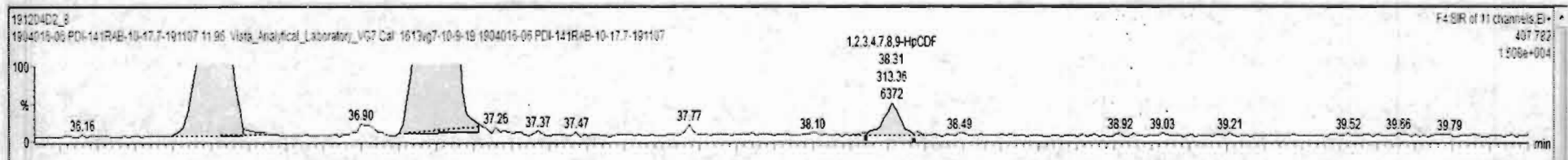


DPE4



#	Name	Resp	IS Resp	IS	RA	n/y	RRF	w/wol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
45	45 Total Penta-Furans		0.00e0				6.940	10.031	30.00				0.000	NO	24.58	0.435	26.02
46	46 Total Hexa-Furans		0.00e0				1.078	10.031	33.00				0.000	NO	50.33	6.542	52.25
47	47 Total Hepta-Furans		0.00e0				1.135	10.031	37.75				0.000	NO	206.2	1.06	206.2
48	48 PFK1																
49	49 PFK2																
50	50 PFK3																
51	51 PFK4																

#	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	36.52	36.51	3.960e3	3.958e3	1.040	1.00	NO	39.479	39.479
2	47 Total Hepta-Furans	37.75	37.10	1.508e4	1.486e4	1.040	1.01	NO	163.14	163.14
3	16 1,2,3,4,7,8,9-HpCDF	38.29	38.31	3.134e2	3.476e2	1.040	0.90	NO	3.5481	3.5481



Vista Analytical Laboratory

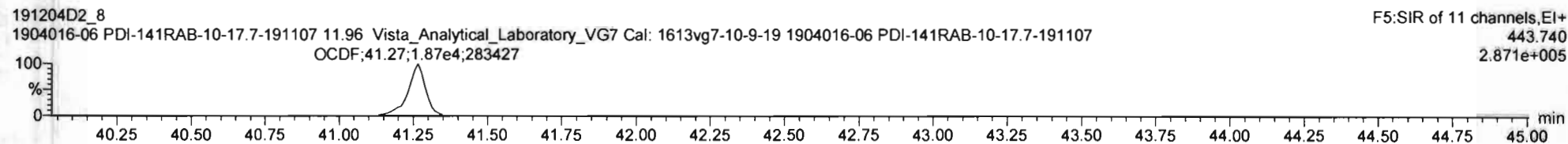
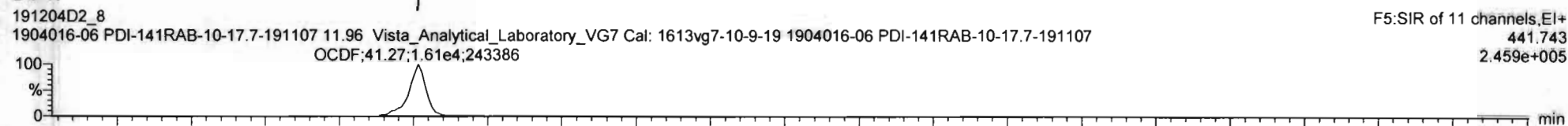
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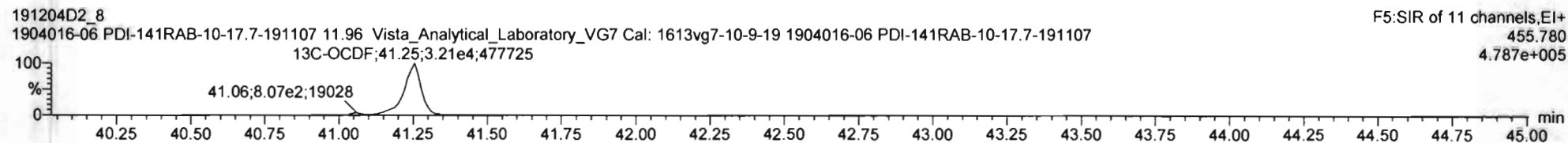
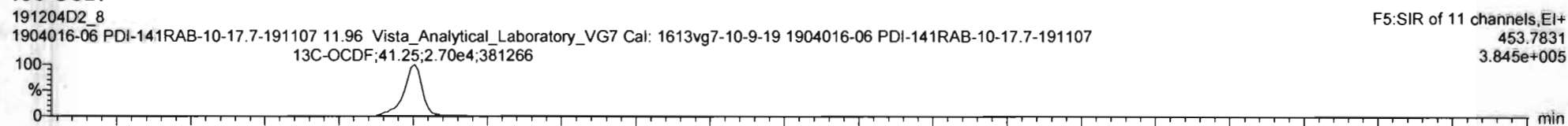
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Name: 191204D2_8, Date: 5-DEC-2019, Time: 13:09:20, ID: 1904016-06 PDI-141RAB-10-17.7-191107,
Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

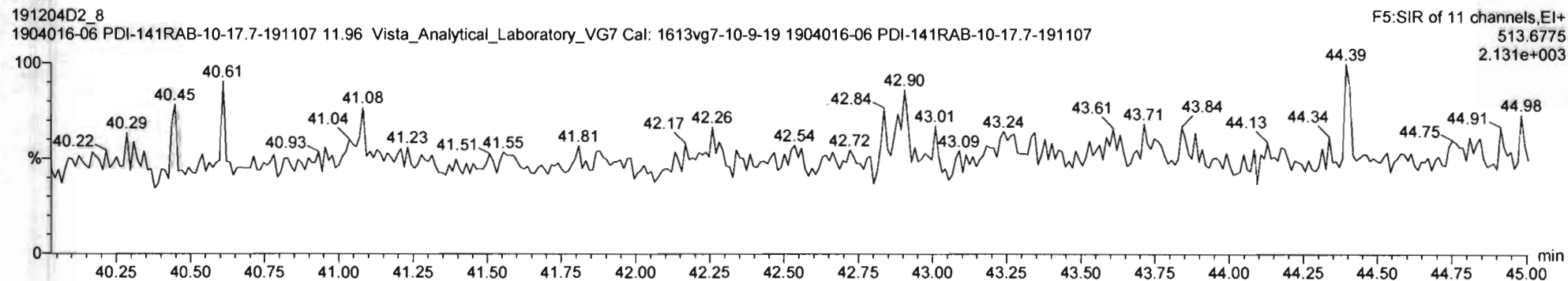
OCDF



13C-OCDF



DPE5



Vista Analytical Laboratory

Dataset: Untitled

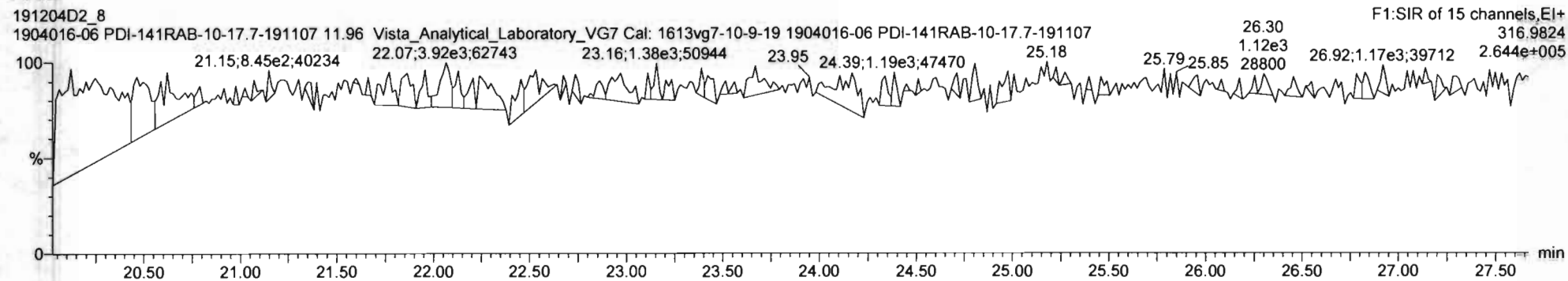
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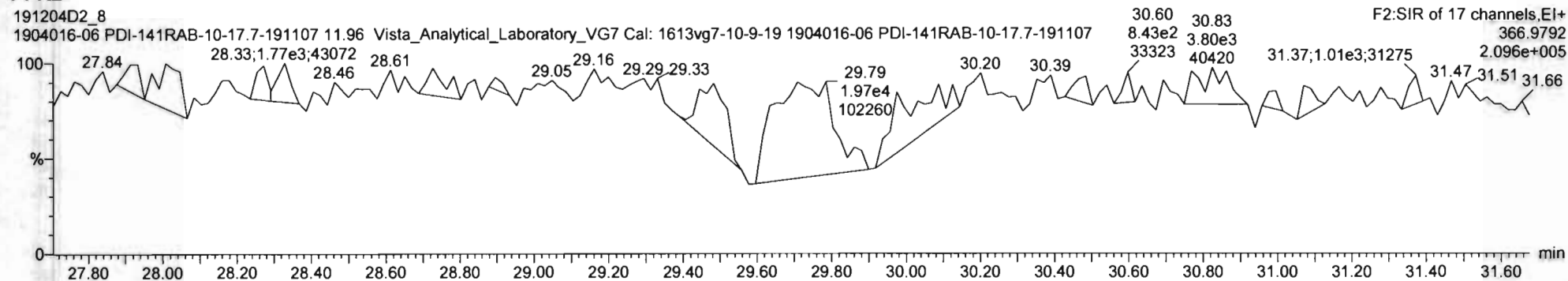
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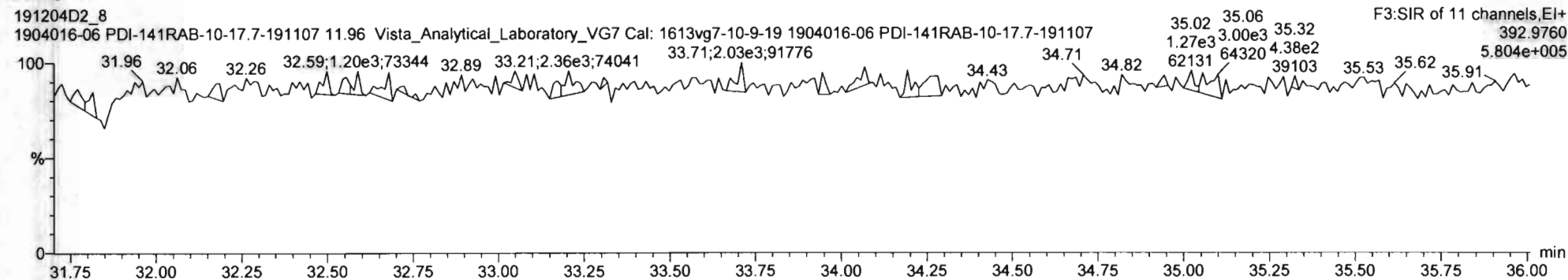
PFK1



PFK2



PFK3



Vista Analytical Laboratory

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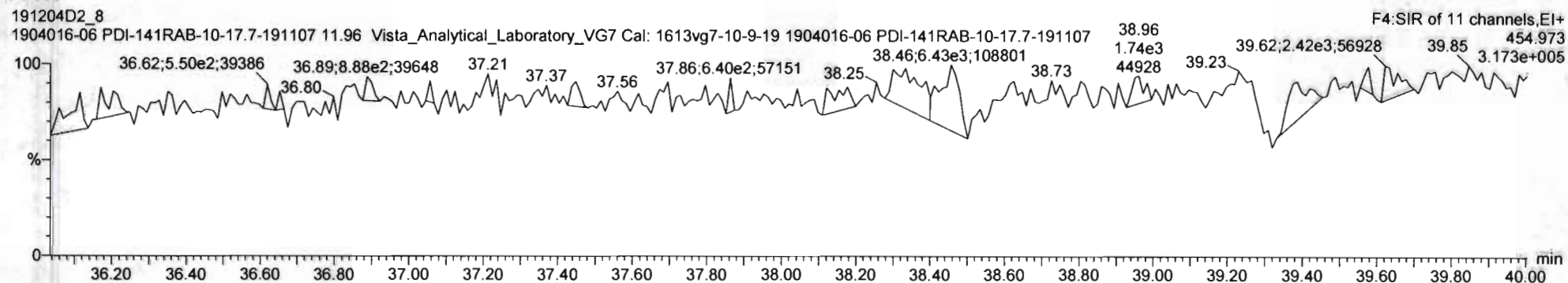
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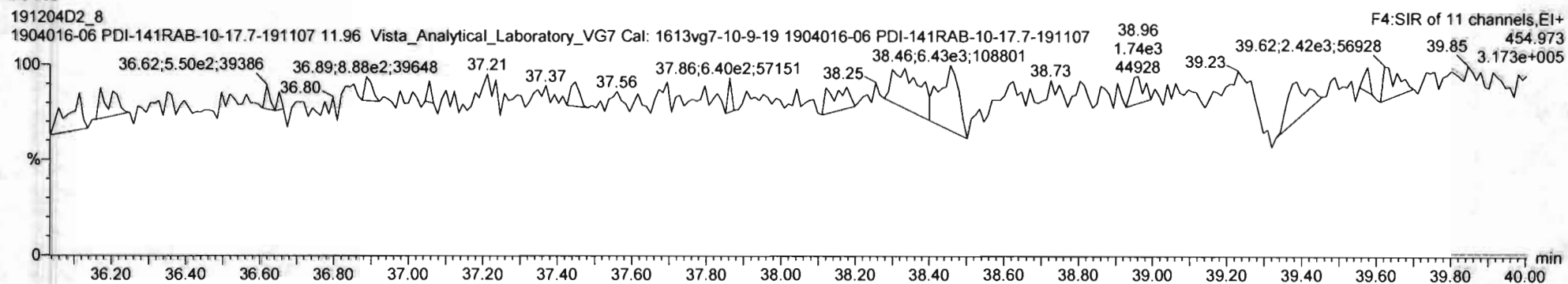
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Description: 1904016-06 PDI-141RAB-10-17.7-191107 11.96 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

PFK4



PFK5



Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
2,3,7,8-TCDD	*	* n	0.91	Not F _η	*		* 2.5	*	
1,2,3,7,8-PeCDD	*	* n	0.90	Not F _η	*		* 2.5	*	
1,2,3,4,7,8-HxCDD	*	* n	1.10	Not F _η	*		* 2.5	*	
1,2,3,6,7,8-HxCDD	*	* n	0.94	Not F _η	*		* 2.5	*	
1,2,3,7,8,9-HxCDD	*	* n	0.96	Not F _η	*		* 2.5	*	
1,2,3,4,6,7,8-HpCDD	*	* n	0.98	Not F _η	*		* 2.5	*	
OCDD	3.60e+07	0.92 y	0.96	41:02	9028.9		* 2.5	*	
2,3,7,8-TCDF	*	* n	0.95	Not F _η	*		* 2.5	*	
1,2,3,7,8-PeCDF	*	* n	0.96	Not F _η	*		* 2.5	*	
2,3,4,7,8-PeCDF	*	* n	1.01	Not F _η	*		* 2.5	*	
1,2,3,4,7,8-HxCDF	*	* n	1.18	Not F _η	*		* 2.5	*	
1,2,3,6,7,8-HxCDF	*	* n	1.07	Not F _η	*		* 2.5	*	
2,3,4,6,7,8-HxCDF	*	* n	1.11	Not F _η	*		* 2.5	*	
1,2,3,7,8,9-HxCDF	*	* n	1.06	Not F _η	*		* 2.5	*	
1,2,3,4,6,7,8-HpCDF	*	* n	1.13	Not F _η	*		* 2.5	*	
1,2,3,4,7,8,9-HpCDF	*	* n	1.28	Not F _η	*		* 2.5	*	
OCDF	*	* n	0.95	Not F _η	*		* 2.5	*	

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*	*	*	*
Total Penta-Dioxins	*	*	*	*	*
Total Hexa-Dioxins	*	*	*	*	*
Total Hepta-Dioxins	*	*	*	*	*
Total Tetra-Furans	*	*	*	*	*
Total Penta-Furans	0.0000	0.0000	*	*	*
Total Hexa-Furans	*	*	*	*	*
Total Hepta-Furans	*	*	*	*	*

IS	13C-2,3,7,8-TCDD	2.63e+06	0.77 y	1.10	26:00	107.96			
IS	13C-1,2,3,7,8-PeCDD	1.87e+06	0.64 y	0.88	30:35	95.268			
IS	13C-1,2,3,4,7,8-HxCDD	1.41e+06	1.37 y	0.64	33:54	84.677			
IS	13C-1,2,3,6,7,8-HxCDD	1.63e+06	1.24 y	0.86	33:60	73.238			
IS	13C-1,2,3,7,8,9-HxCDD	1.54e+06	1.29 y	0.81	34:18	73.280			
IS	13C-1,2,3,4,6,7,8-HpCDD	1.24e+06	1.06 y	0.65	37:46	73.086			
IS	13C-OCDD	1.66e+06	0.90 y	0.58	41:01	110.10			
IS	13C-2,3,7,8-TCDF	3.96e+06	0.78 y	1.03	25:13	108.25			
IS	13C-1,2,3,7,8-PeCDF	3.02e+06	1.58 y	0.85	29:24	100.02			
IS	13C-2,3,4,7,8-PeCDF	2.66e+06	1.66 y	0.85	30:18	88.673			
IS	13C-1,2,3,4,7,8-HxCDF	1.95e+06	0.50 y	0.83	33:00	90.290			
IS	13C-1,2,3,6,7,8-HxCDF	2.25e+06	0.50 y	1.03	33:08	83.513			
IS	13C-2,3,4,6,7,8-HxCDF	1.83e+06	0.51 y	0.95	33:44	73.781			
IS	13C-1,2,3,7,8,9-HxCDF	1.77e+06	0.52 y	0.83	34:41	82.232			
IS	13C-1,2,3,4,6,7,8-HpCDF	1.49e+06	0.45 y	0.76	36:31	75.512			
IS	13C-1,2,3,4,7,8,9-HpCDF	1.14e+06	0.44 y	0.58	38:18	75.557			
IS	13C-OCDF	2.10e+06	0.89 y	0.69	41:14	117.01			
C/Up	37Cl-2,3,7,8-TCDD	1.17e+06		1.20	26:02	43.818			
RS/RT	13C-1,2,3,4-TCDD	4.44e+06	0.83 y	1.00	25:26	199.38			
RS	13C-1,2,3,4-TCDF	7.05e+06	0.81 y	1.00	23:58	199.38			
RS/RT	13C-1,2,3,4,6,9-HxCDF	5.19e+06	0.51 y	1.00	33:25	199.38			

Rec Qual

54.1
47.8
42.5
36.7
36.8
36.7
27.6
54.3
50.2
44.5
45.3
41.9
37.0
41.2
37.9
37.9
29.3

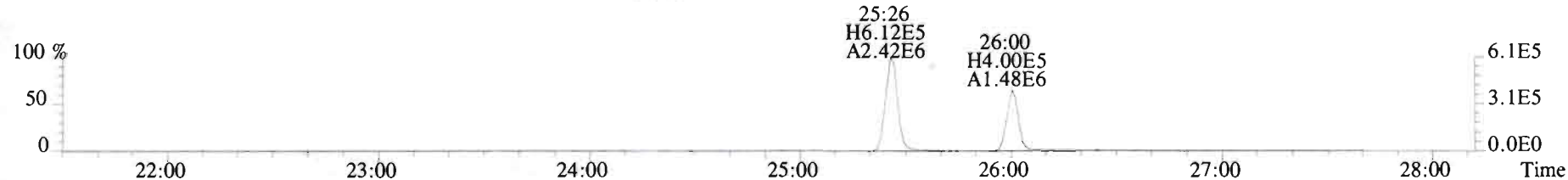
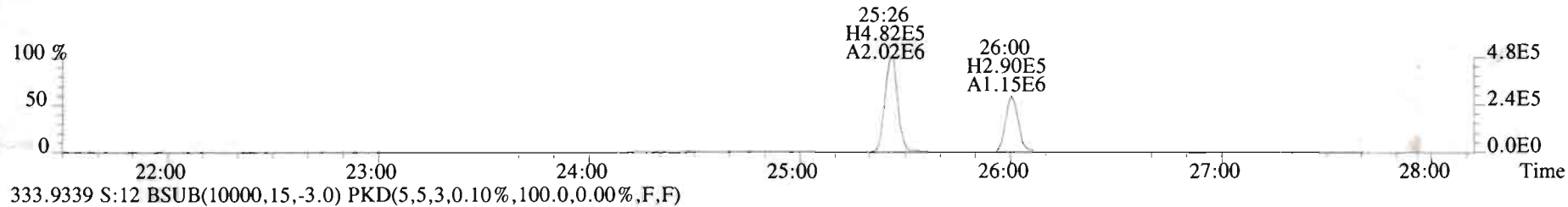
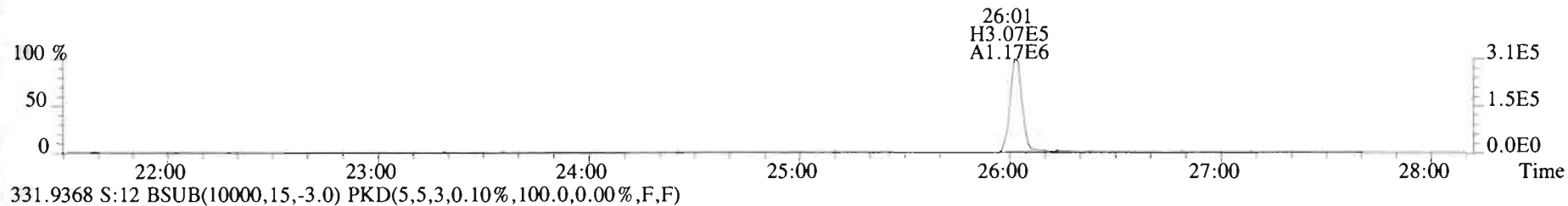
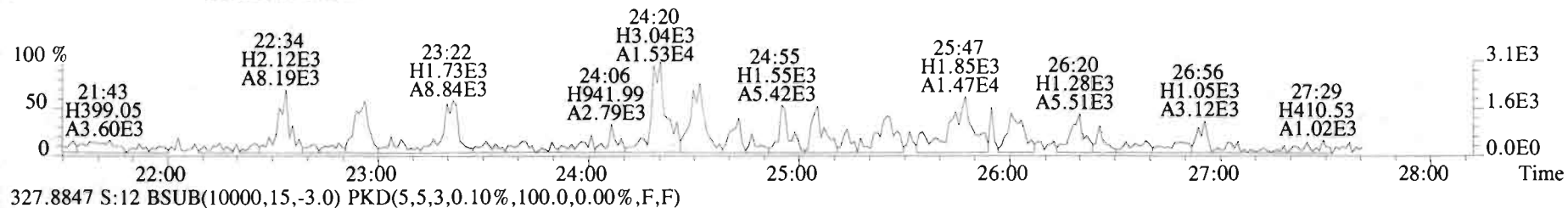
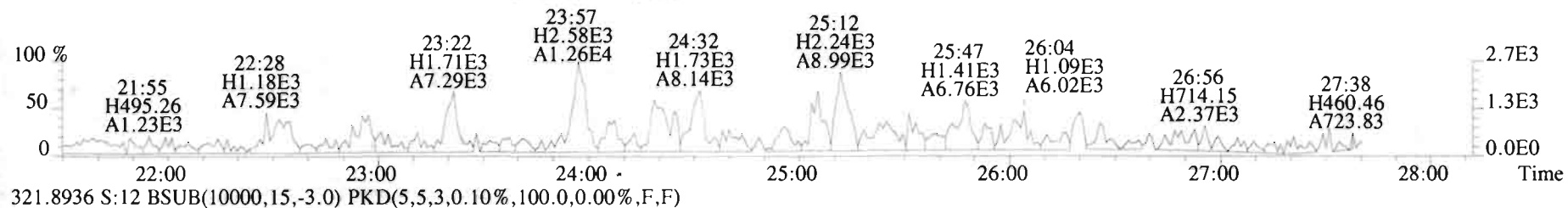
Integrations
by
Analyst: DB

Date: 1/6/20

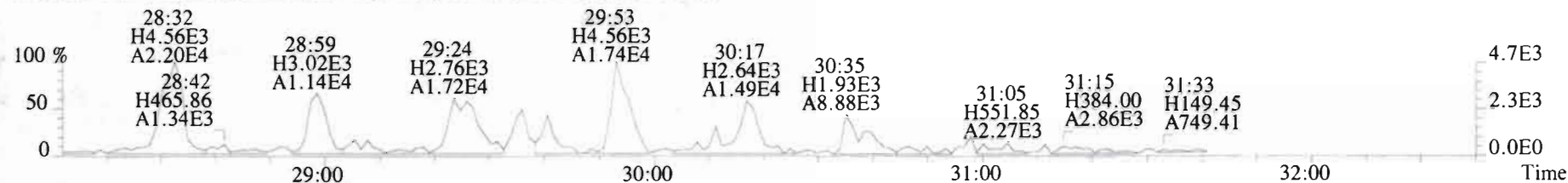
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by
Analyst: JML

Date: 1/6/20

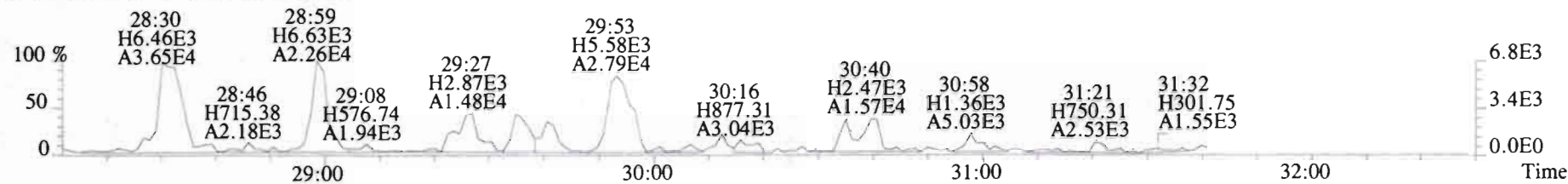
File:200103D2 #1-492 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_£
319.8965 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



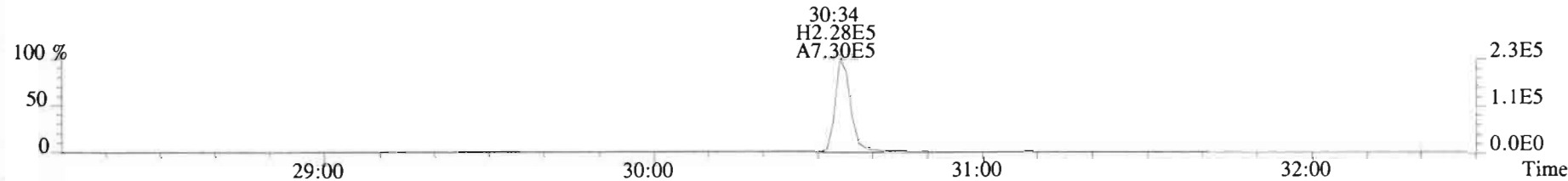
File:200103D2 #1-211 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical_Laboratory_VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_f
353.8576 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



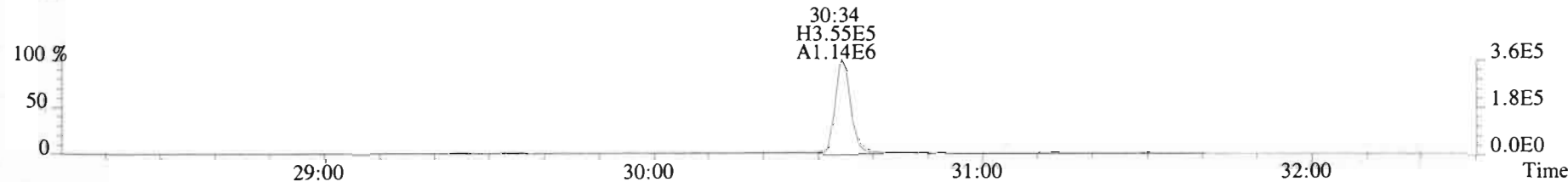
355.8546 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



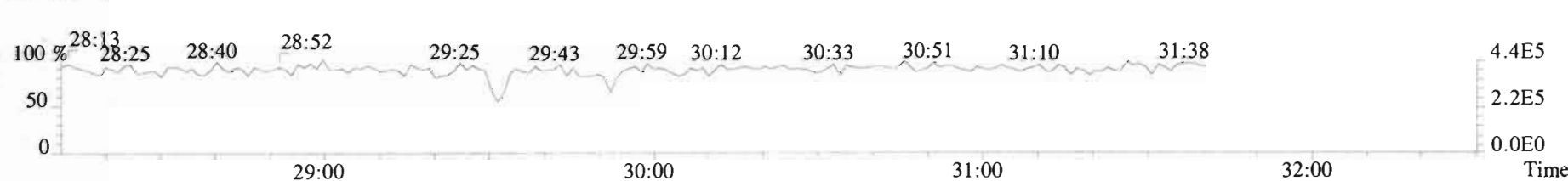
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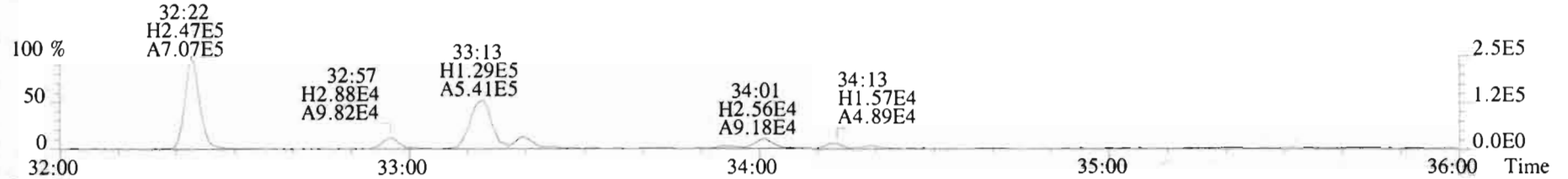
367.8949 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



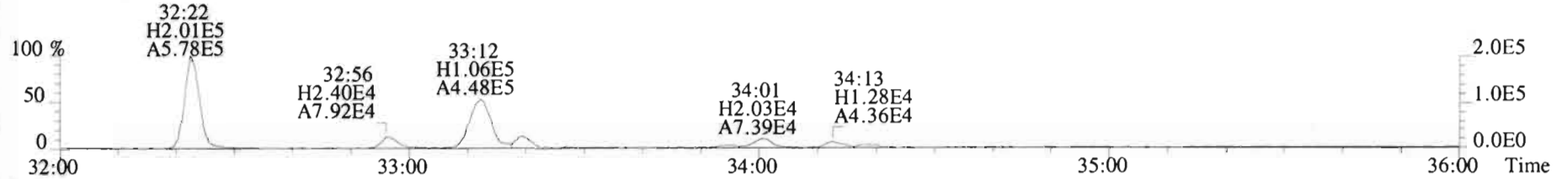
366.9792 S:12 F:2



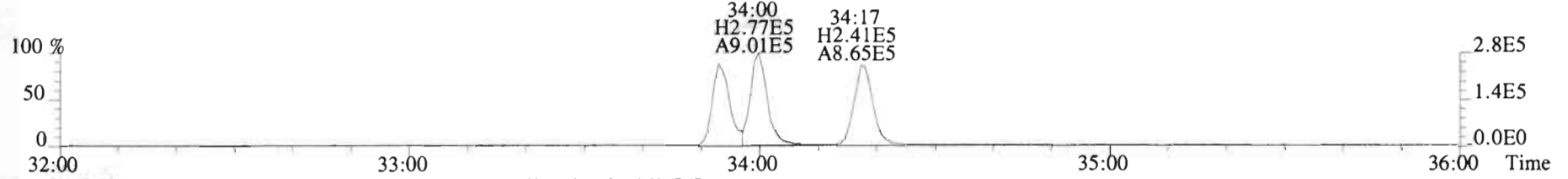
File:200103D2 #1-384 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#12 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_f
 389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F)



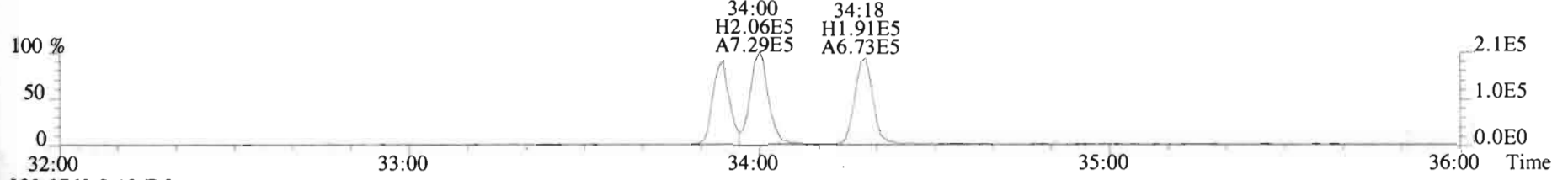
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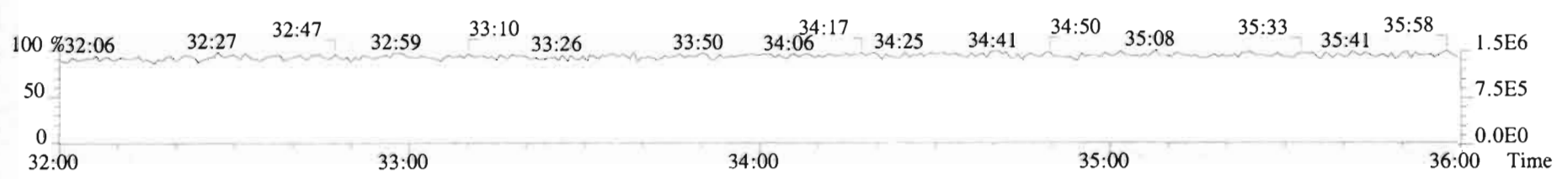
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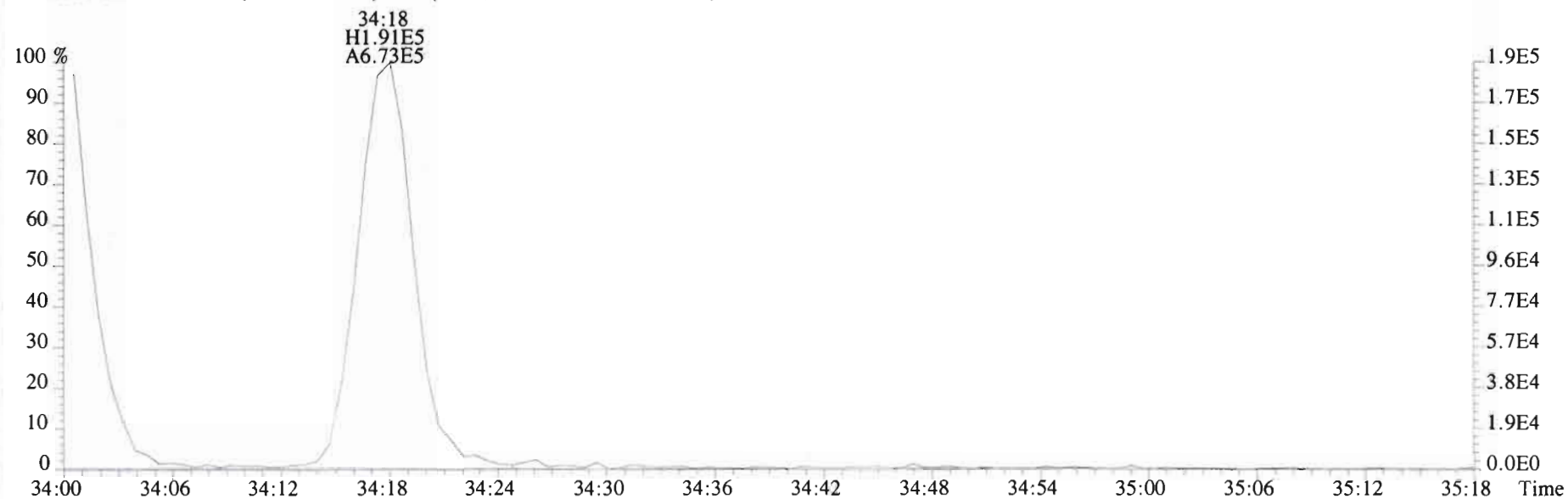
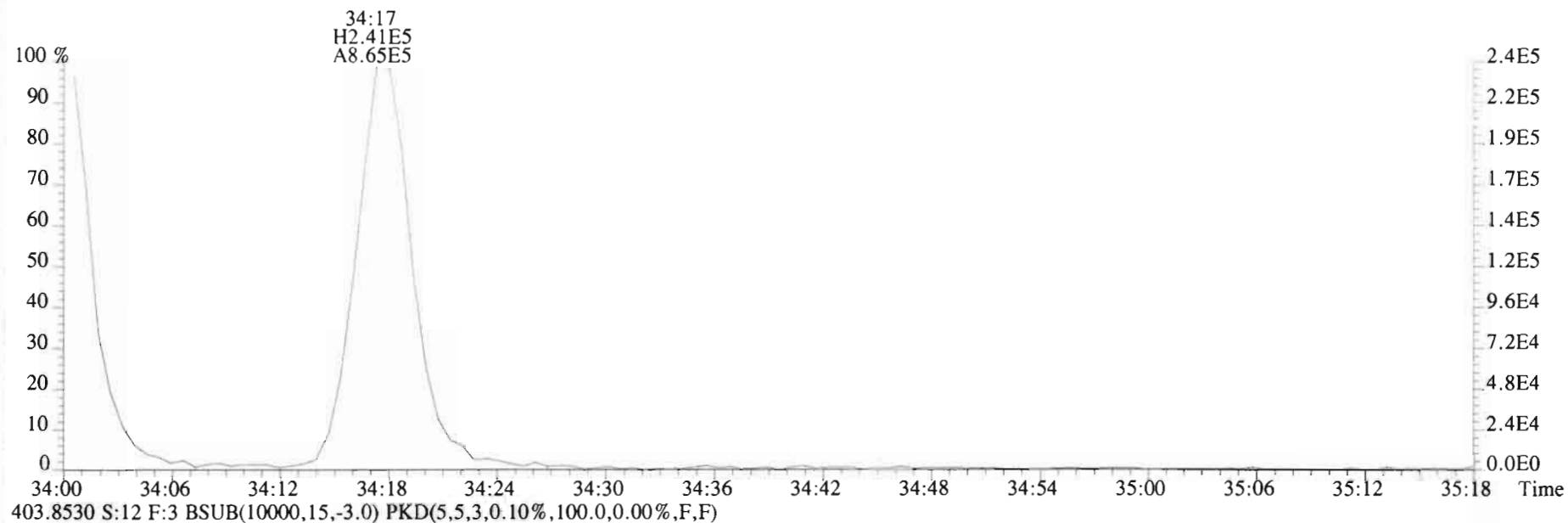
403.8530 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



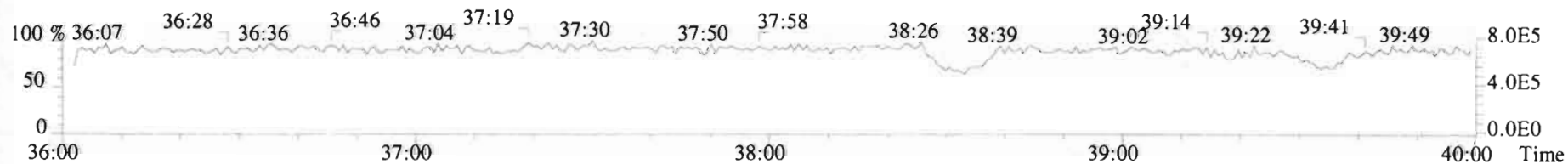
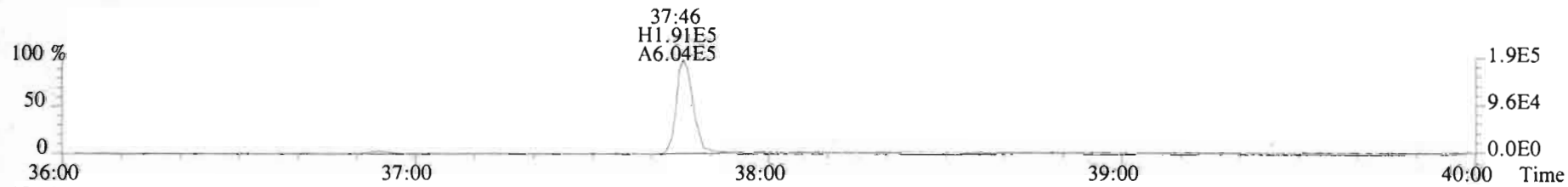
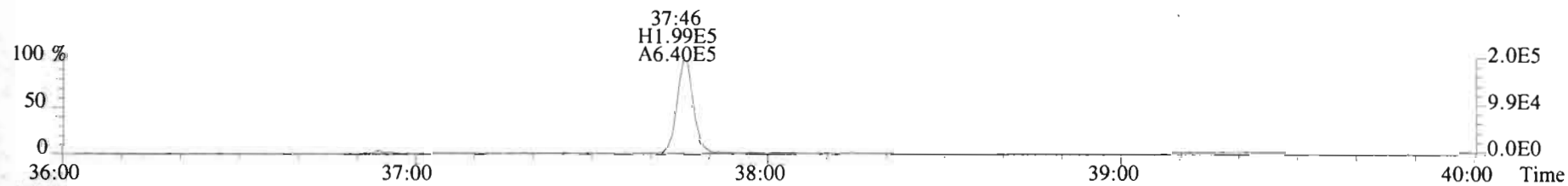
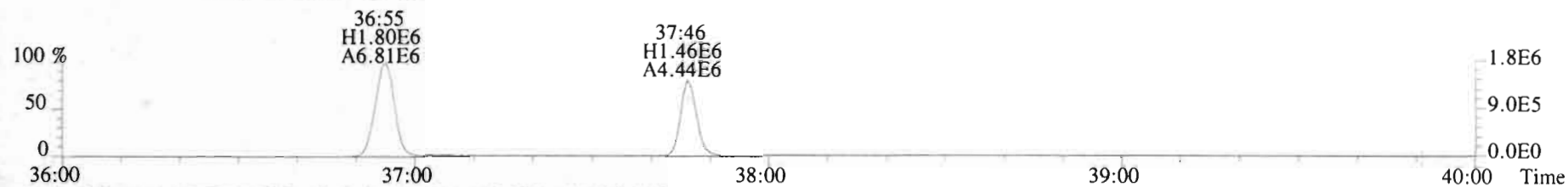
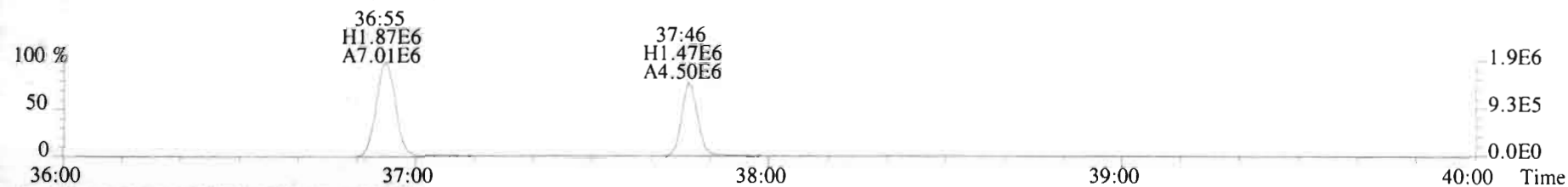
392.9760 S:12 F:3



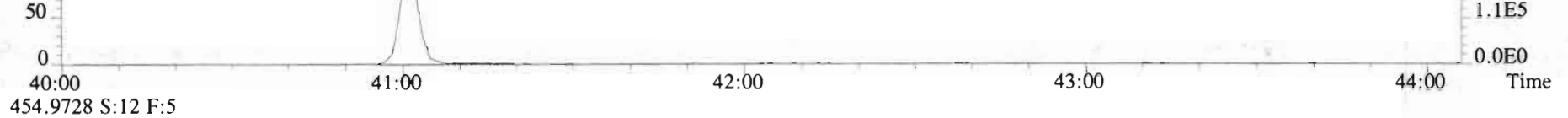
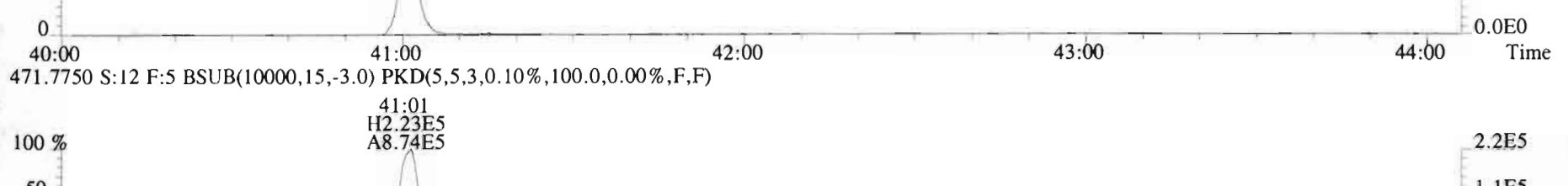
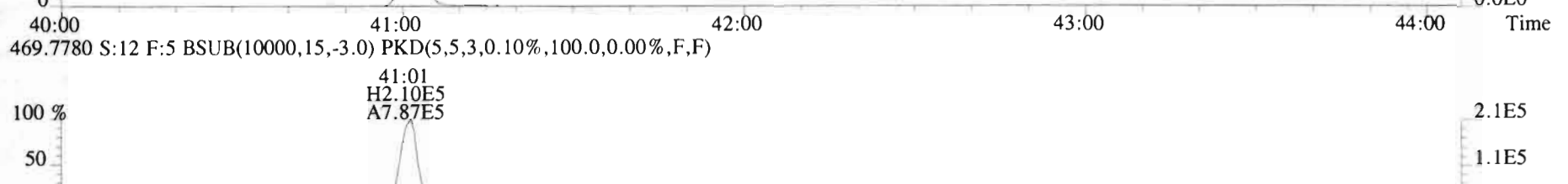
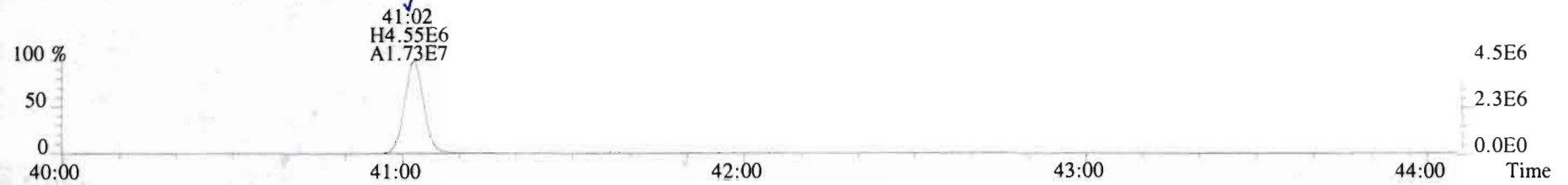
File:200103D2 #1-384 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_£
401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



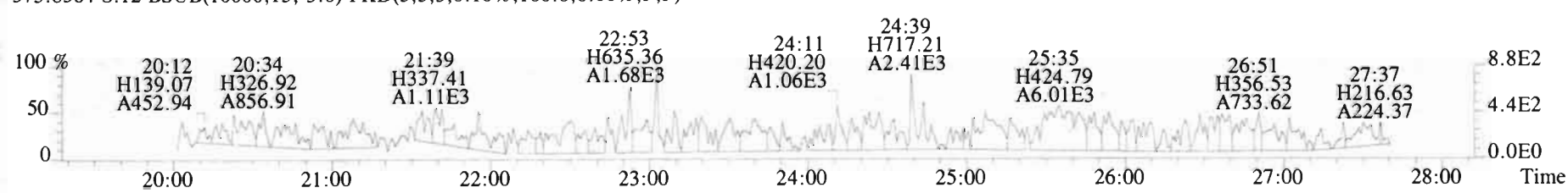
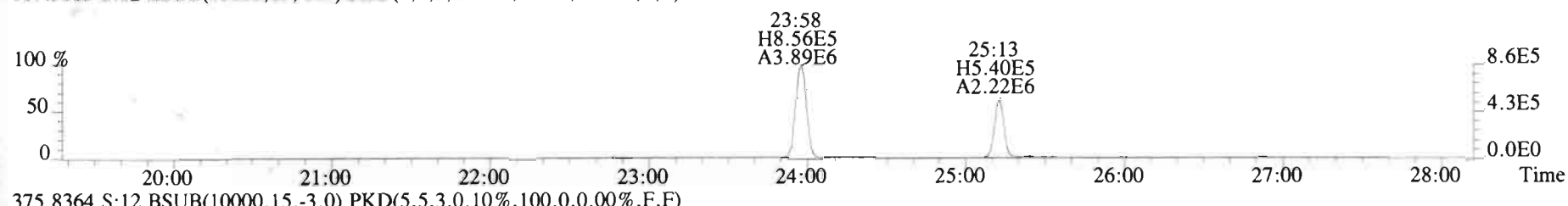
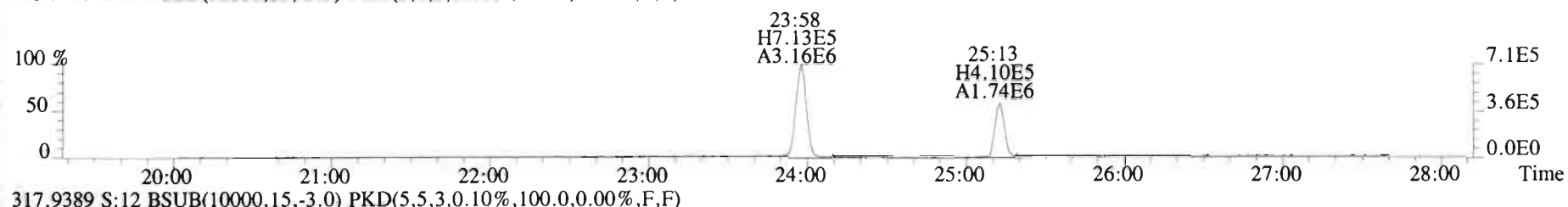
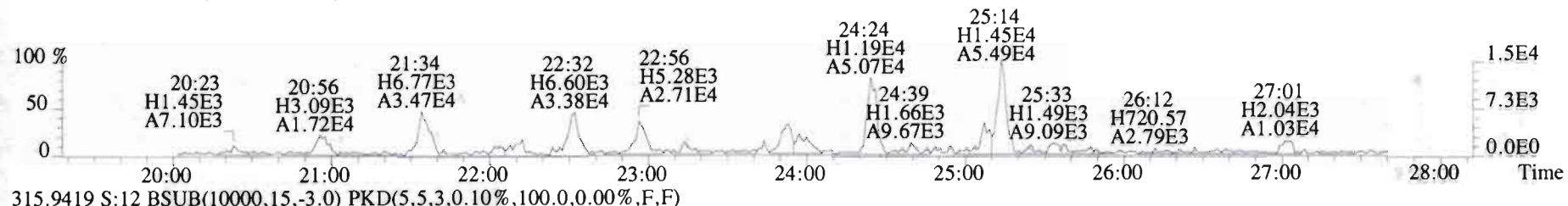
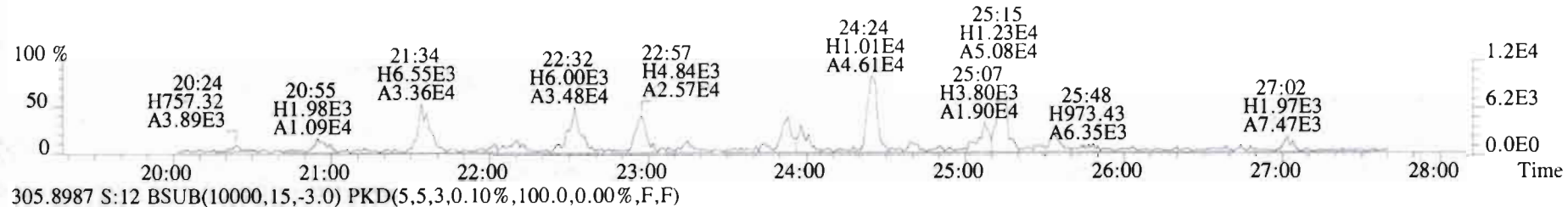
File:200103D2 #1-355 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text: Vista Analytical Laboratory_VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_£
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



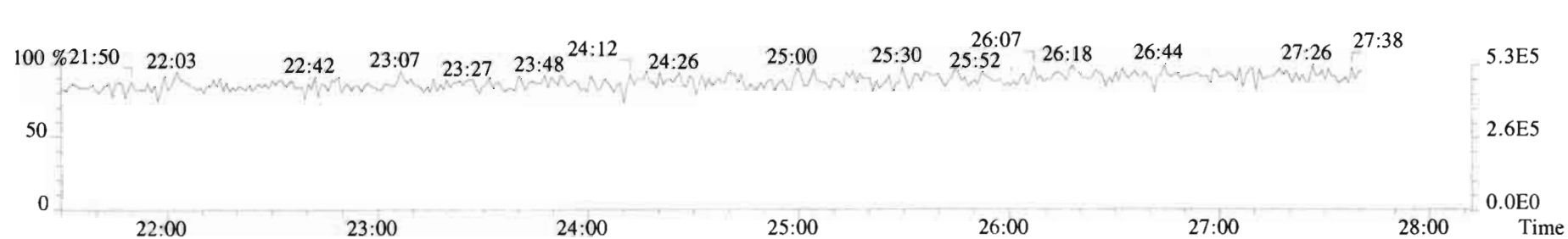
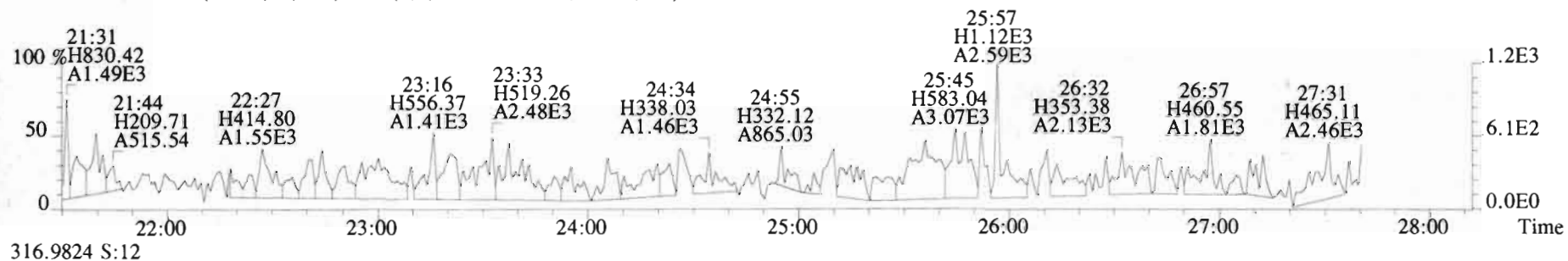
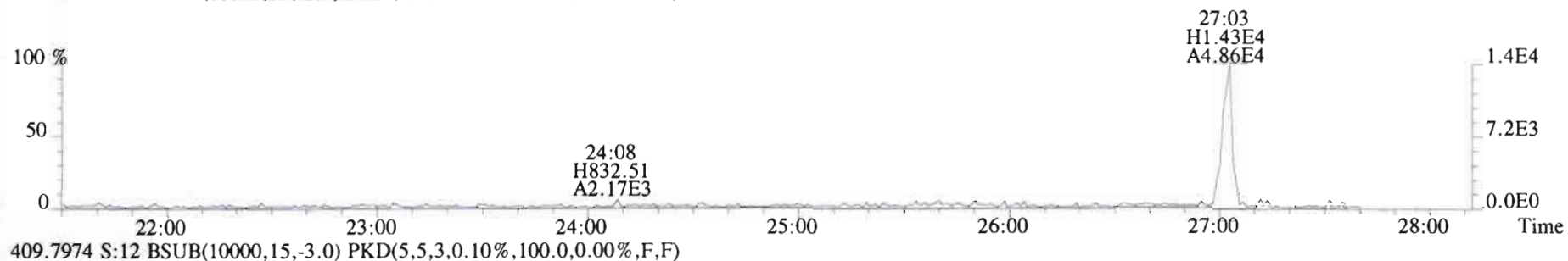
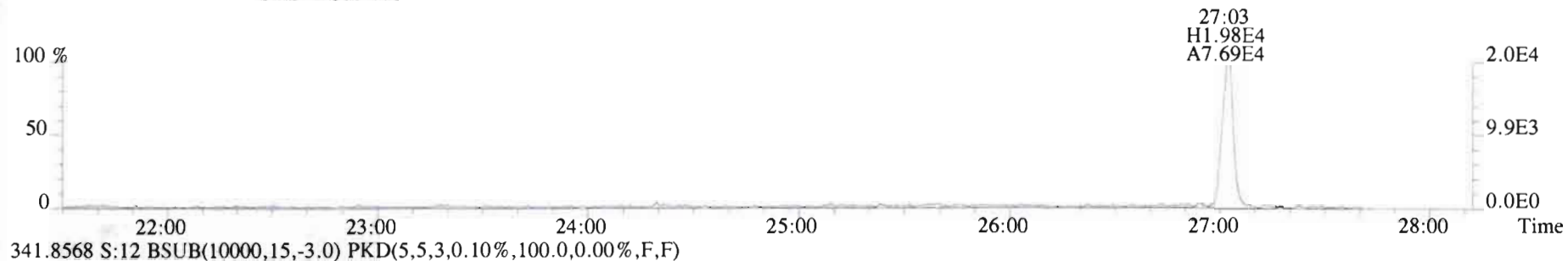
File:200103D2 #1-432 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text: Vista_Analytical_Laboratory_VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_f
457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



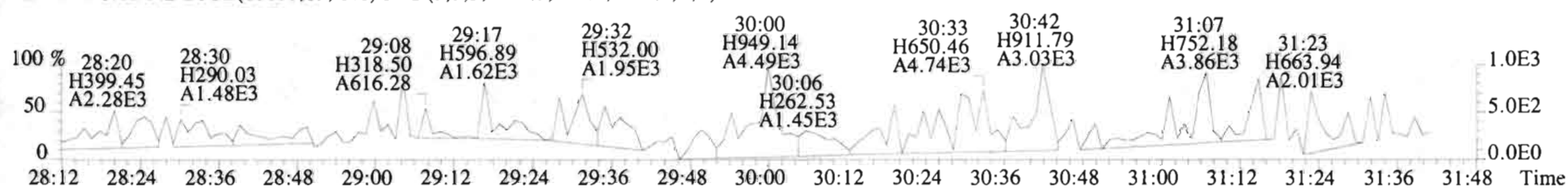
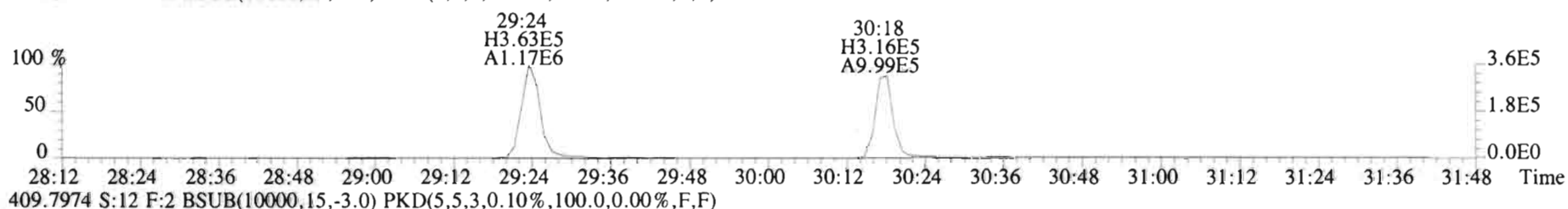
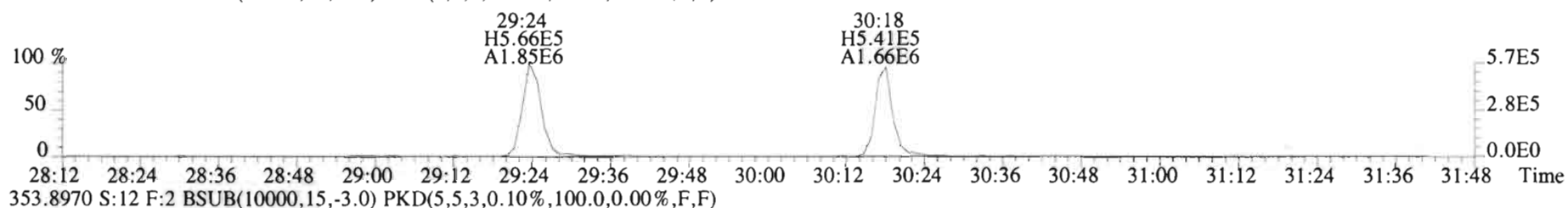
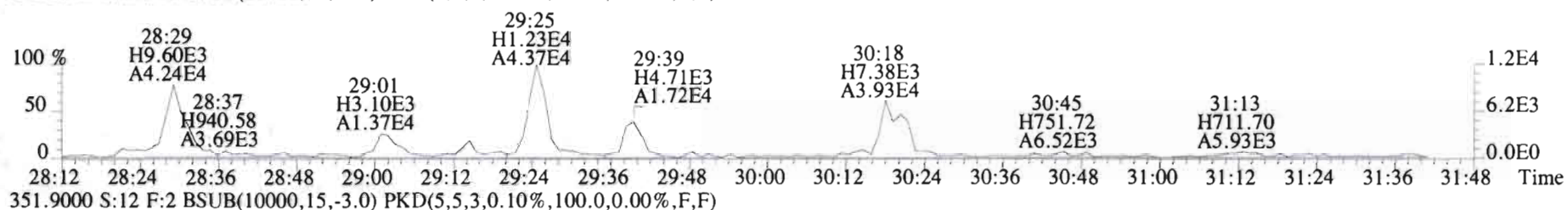
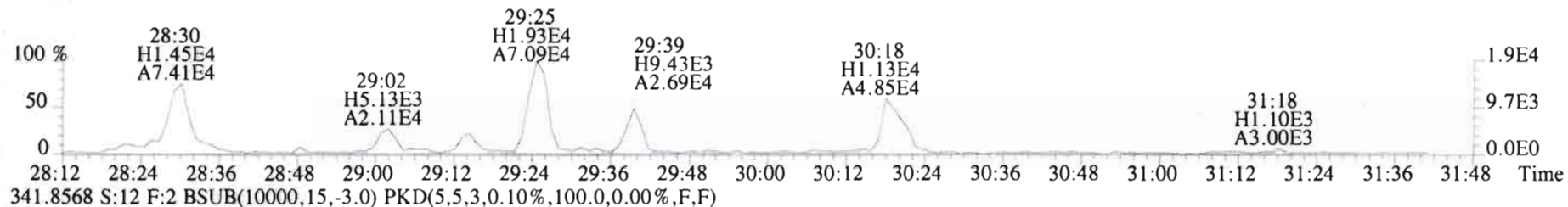
File:200103D2 #1-492 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#12 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_£
 303.9016 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



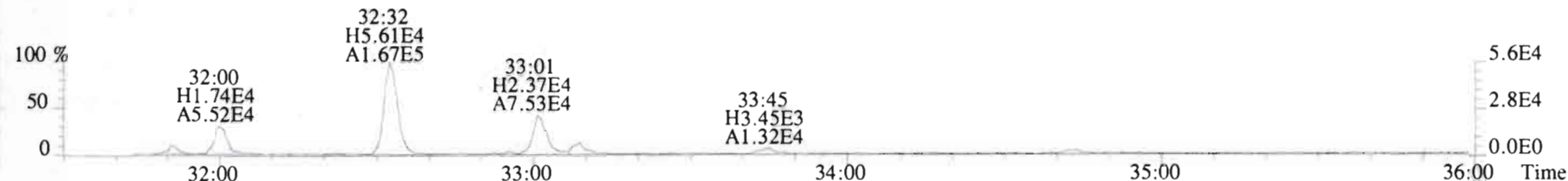
File:200103D2 #1-492 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista Analytical Laboratory VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_£
339.8597 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



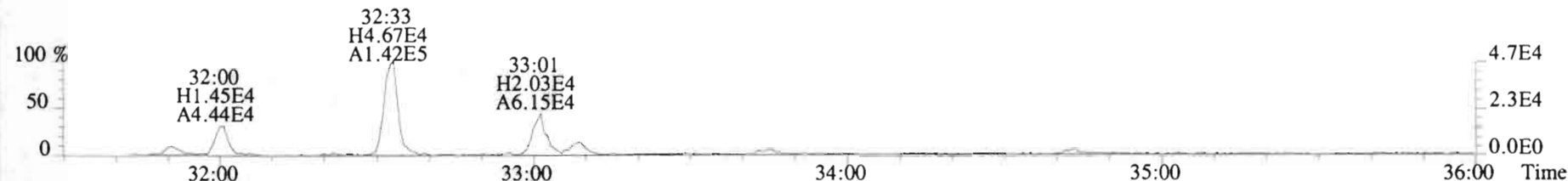
File:200103D2 #1-211 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#12 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_£
 339.8597 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



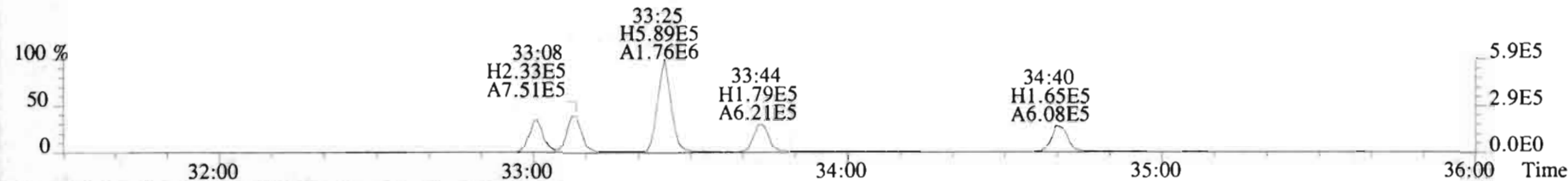
File:200103D2 #1-384 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#12 File Text: Vista_Analytical_Laboratory_VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_£
 373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



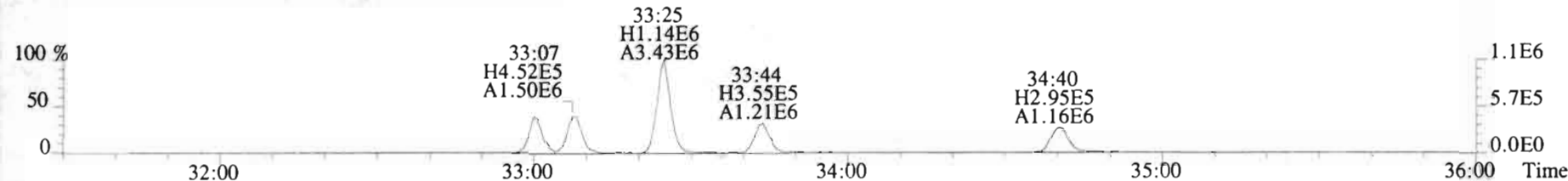
375.8178 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



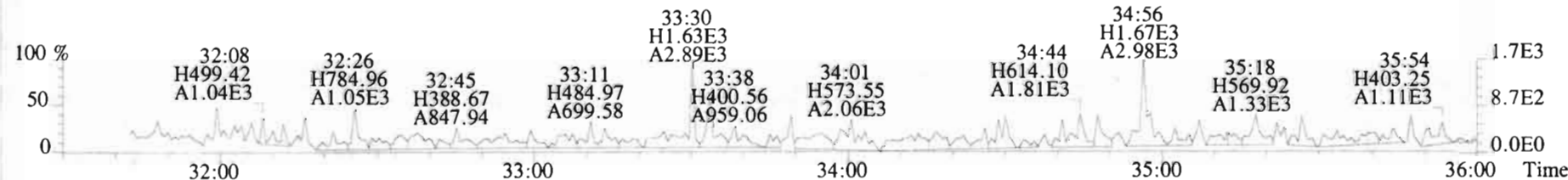
383.8639 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



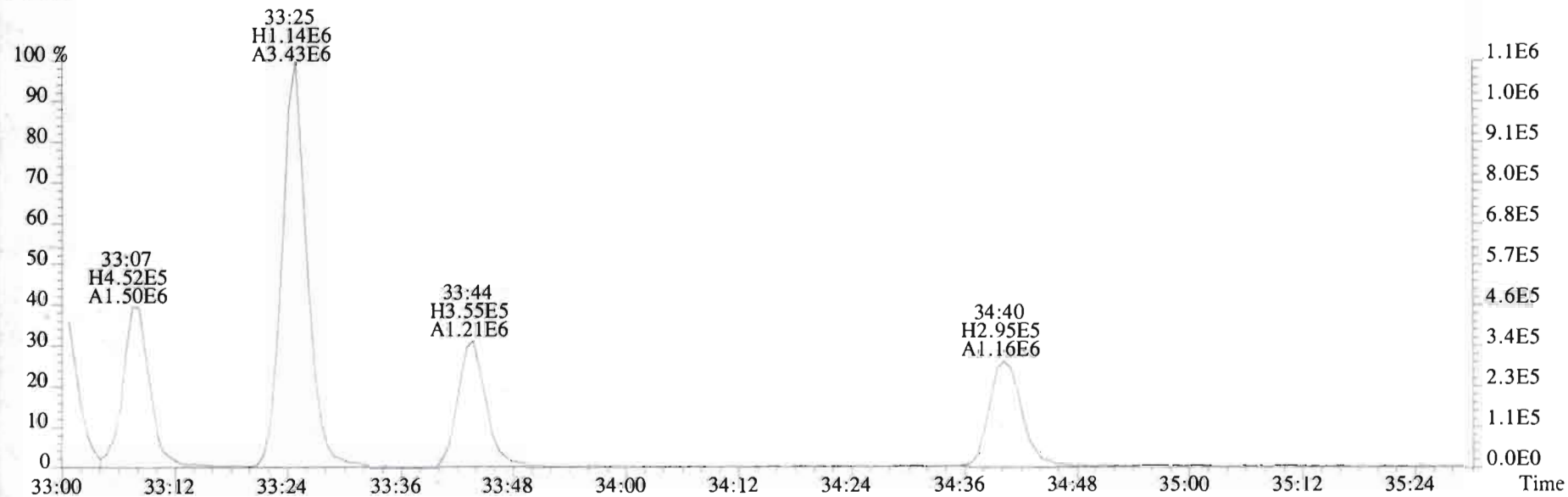
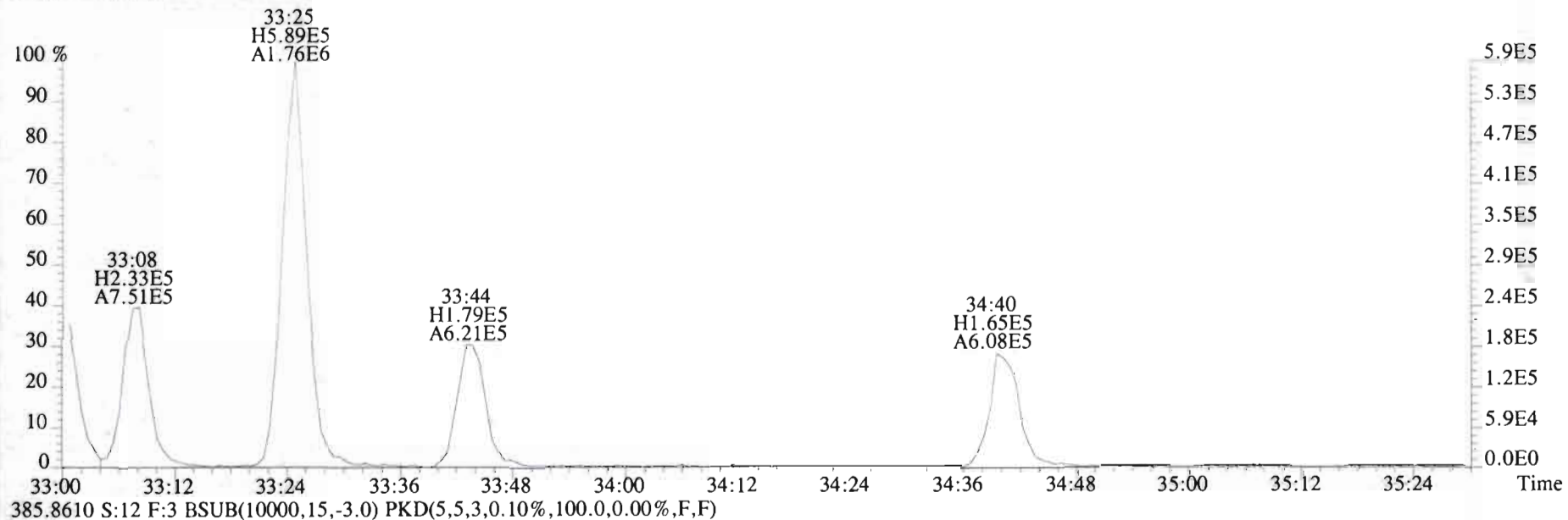
385.8610 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



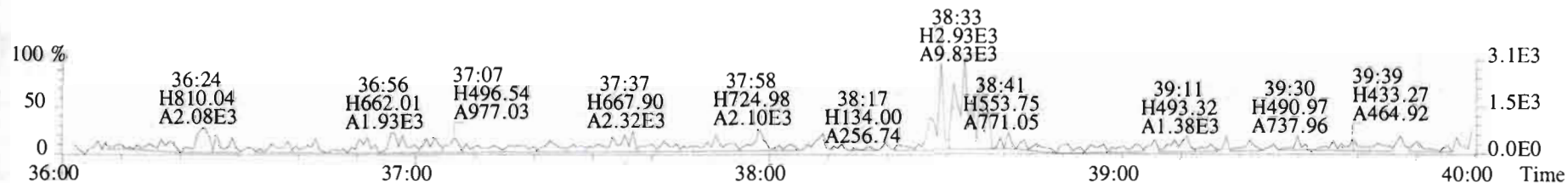
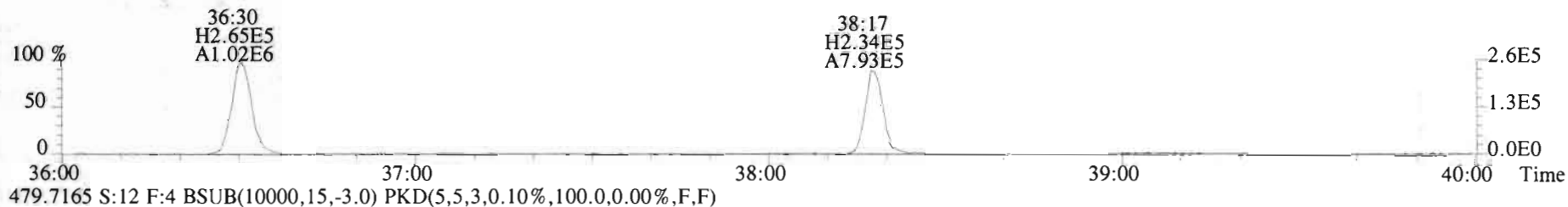
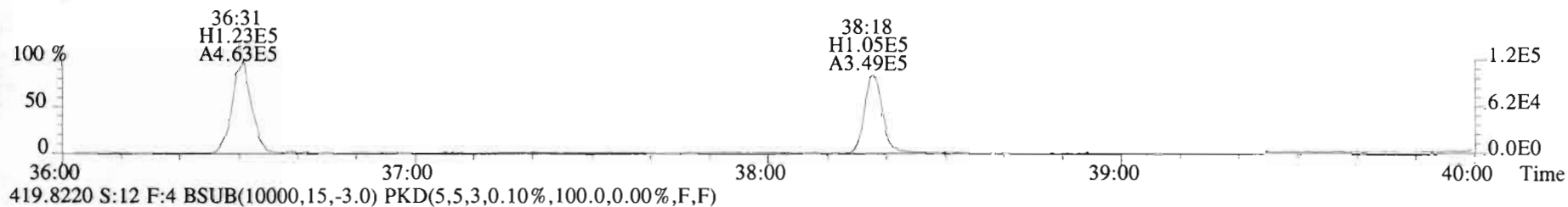
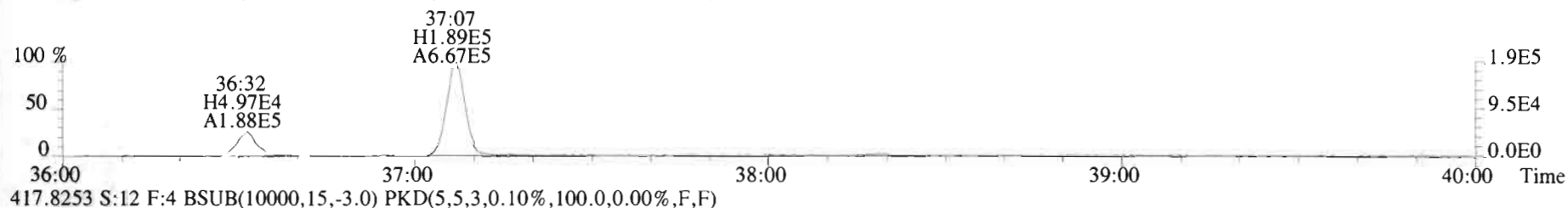
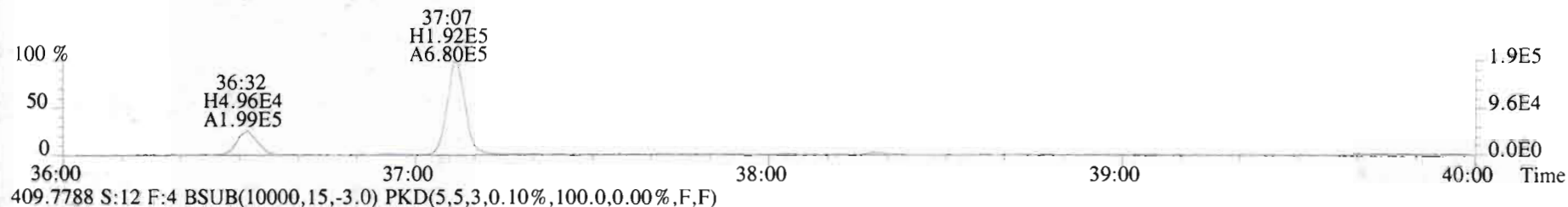
445.7555 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



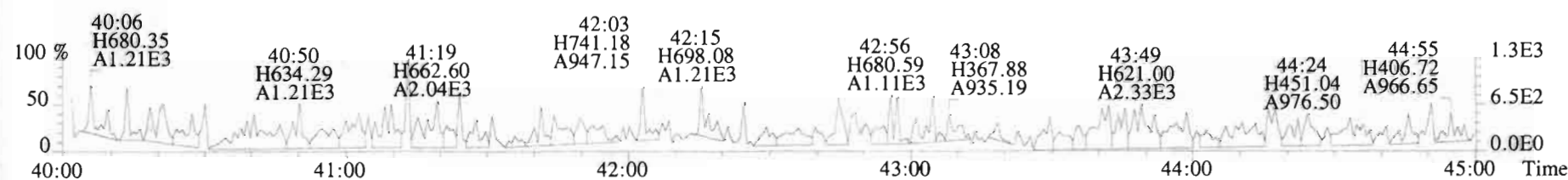
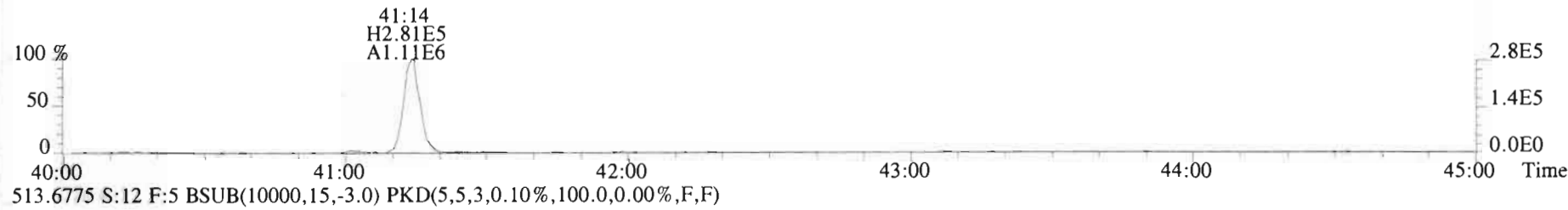
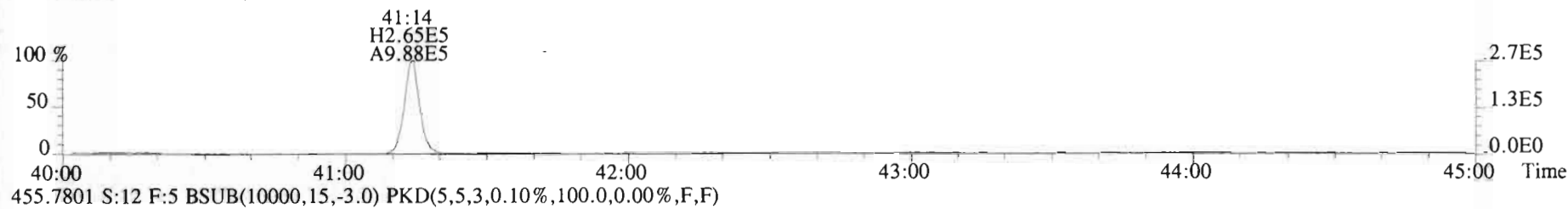
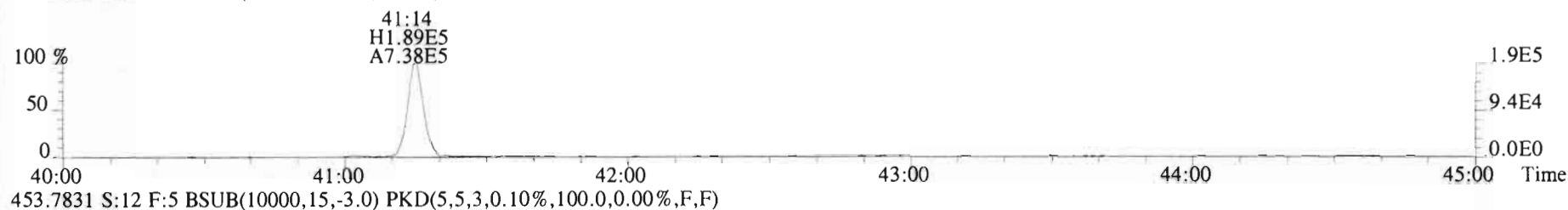
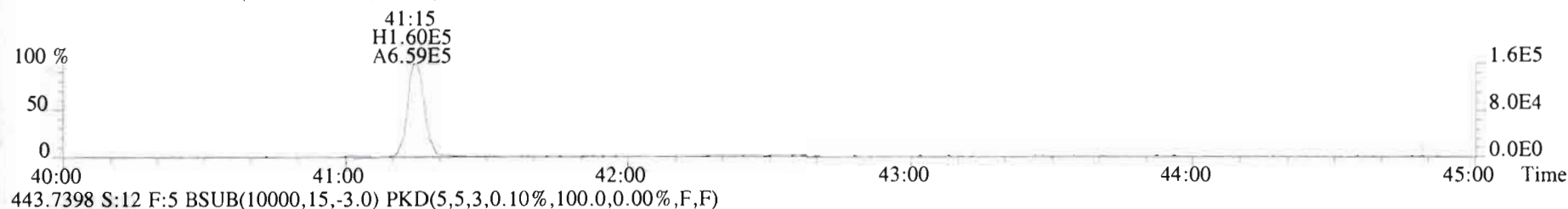
File:200103D2 #1-384 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaF
Sample#12 File Text: Vista Analytical Laboratory VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_f
383.8639 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200103D2 #1-355 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#12 File Text: Vista_Analytical_Laboratory_VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_£
 407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200103D2 #1-432 Acq: 3-JAN-2020 23:37:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-06@3X PDI-141RAB-10-17.7-191107 1:3 10.0310 Exp:OCDD_£
441.7428 S:12 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\191204D2\191204D2-9.qld
 Last Altered: Tuesday, December 10, 2019 09:39:19 Pacific Standard Time
 Printed: Tuesday, December 10, 2019 09:39:55 Pacific Standard Time

EL 12/10/19

CT 12/10/19

Method: U:\VG7.pro\MethDB\1613VG7-12-4-19.mdb 06 Dec 2019 10:27:59
 Calibration: 06 Dec 2019 12:21:27

Name: 191204D2_9, Date: 5-DEC-2019, Time: 13:57:12, ID: 1904016-07 PDI-143RAB-00-10-191111,
 Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 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		9.38e4	10.1260	0.905			1.001		26.11					0.312
2	2 1,2,3,7,8-PeCDD		9.14e4	10.1260	0.903			1.001		30.63					0.217
3	3 1,2,3,4,7,8-HxCDD		6.78e4	10.1260	1.101			1.000		33.91					0.534
4	4 1,2,3,6,7,8-HxCDD		7.28e4	10.1260	0.939			1.000		34.01					0.600
5	5 1,2,3,7,8,9-HxCDD		7.29e4	10.1260	0.961			1.001		34.33					0.588
6	6 1,2,3,4,6,7,8-HpCDD	6.46e2	6.70e4	10.1260	0.979	0.803	YES	1.000	1.000	37.78	37.78	1.9447		1.70	0.592
7	7 OCDD	4.95e3	1.30e5	10.1260	0.959	0.906	NO	1.000	1.000	41.02	41.03	15.681		15.7	1.31
8	8 2,3,7,8-TCDF		1.34e5	10.1260	0.950			1.001		25.32					0.260
9	9 1,2,3,7,8-PeCDF		1.43e5	10.1260	0.960			1.001		29.45					0.195
10	10 2,3,4,7,8-PeCDF		1.35e5	10.1260	1.015			1.001		30.35					0.182
11	11 1,2,3,4,7,8-HxCDF		9.49e4	10.1260	1.177			1.000		33.02					0.266
12	12 1,2,3,6,7,8-HxCDF		9.60e4	10.1260	1.069			1.000		33.14					0.267
13	13 2,3,4,6,7,8-HxCDF		8.61e4	10.1260	1.114			1.001		33.76					0.318
14	14 1,2,3,7,8,9-HxCDF		8.14e4	10.1260	1.062			1.000		34.68					0.388
15	15 1,2,3,4,6,7,8-HpCDF		6.84e4	10.1260	1.128			1.001		36.55					0.391
16	16 1,2,3,4,7,8,9-HpCDF		5.80e4	10.1260	1.280			1.000		38.31					0.322
17	17 OCDF		1.45e5	10.1260	0.947			1.000		41.24					0.433
18	18 13C-2,3,7,8-TCDD	9.38e4	9.39e4	10.1260	1.095	0.798	NO	1.021	1.022	26.05	26.07	180.07	91.2		0.578
19	19 13C-1,2,3,7,8-PeCDD	9.14e4	9.39e4	10.1260	0.881	0.621	NO	1.187	1.200	30.28	30.61	218.03	110.4		0.521
20	20 13C-1,2,3,4,7,8-Hx...	6.78e4	1.06e5	10.1260	0.642	1.303	NO	1.014	1.014	33.89	33.90	196.97	99.7		1.17
21	21 13C-1,2,3,6,7,8-Hx...	7.28e4	1.06e5	10.1260	0.856	1.236	NO	1.017	1.017	34.01	34.01	158.64	80.3		0.880
22	22 13C-1,2,3,7,8,9-Hx...	7.29e4	1.06e5	10.1260	0.807	1.241	NO	1.026	1.026	34.30	34.30	168.42	85.3		0.933
23	23 13C-1,2,3,4,6,7,8-H...	6.70e4	1.06e5	10.1260	0.654	1.064	NO	1.126	1.130	37.64	37.77	190.89	96.6		2.05
24	24 13C-OCDD	1.30e5	1.06e5	10.1260	0.580	0.901	NO	1.226	1.227	40.98	41.02	417.96	105.8		1.19
25	25 13C-2,3,7,8-TCDF	1.34e5	1.54e5	10.1260	1.035	0.792	NO	0.992	0.991	25.31	25.30	165.83	84.0		0.661
26	26 13C-1,2,3,7,8-PeCDF	1.43e5	1.54e5	10.1260	0.854	1.591	NO	1.154	1.154	29.44	29.43	214.74	108.7		0.837
27	27 13C-2,3,4,7,8-PeCDF	1.35e5	1.54e5	10.1260	0.847	1.612	NO	1.189	1.188	30.34	30.32	205.16	103.9		0.844
28	28 13C-1,2,3,4,7,8-Hx...	9.49e4	1.06e5	10.1260	0.832	0.498	NO	0.987	0.988	33.00	33.02	212.72	107.7		1.20
29	29 13C-1,2,3,6,7,8-Hx...	9.60e4	1.06e5	10.1260	1.034	0.529	NO	0.991	0.991	33.12	33.13	172.94	87.6		0.963
30	30 13C-2,3,4,6,7,8-Hx...	8.61e4	1.06e5	10.1260	0.953	0.518	NO	1.009	1.009	33.73	33.73	168.42	85.3		1.04
31	31 13C-1,2,3,7,8,9-Hx...	8.14e4	1.06e5	10.1260	0.828	0.519	NO	1.039	1.038	34.72	34.68	183.27	92.8		1.20

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-9.qld

Last Altered: Tuesday, December 10, 2019 09:39:19 Pacific Standard Time

Printed: Tuesday, December 10, 2019 09:39:55 Pacific Standard Time

Name: 191204D2_9, Date: 5-DEC-2019, Time: 13:57:12, ID: 1904016-07 PDI-143RAB-00-10-191111,
 Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 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...	6.84e4	1.06e5	10.1260	0.757	0.429	NO	1.093	1.092	36.53	36.51	168.34	85.2		1.42
33	33 13C-1,2,3,4,7,8,9-H...	5.80e4	1.06e5	10.1260	0.581	0.444	NO	1.143	1.146	38.21	38.31	186.19	94.3		1.86
34	34 13C-OCDF	1.45e5	1.06e5	10.1260	0.689	0.841	NO	1.233	1.234	41.22	41.24	391.35	99.1		1.37
35	35 37Cl-2,3,7,8-TCDD	4.42e4	9.39e4	10.1260	1.198			1.022	1.023	26.08	26.09	77.574	98.2		0.250
36	36 13C-1,2,3,4-TCDD	9.39e4	9.39e4	10.1260	1.000	0.787	NO	1.000	1.000	25.50	25.51	197.51	100.0		0.633
37	37 13C-1,2,3,4-TCDF	1.54e5	1.54e5	10.1260	1.000	0.801	NO	1.000	1.000	24.06	24.07	197.51	100.0		0.684
38	38 13C-1,2,3,4,6,9-Hx...	1.06e5	1.06e5	10.1260	1.000	0.500	NO	1.000	1.000	33.42	33.43	197.51	100.0		0.996
39	39 Total Tetra-Dioxins		9.38e4	10.1260	0.901			0.000		25.50					0.147
40	40 Total Penta-Dioxins		9.14e4	10.1260	0.872			0.000		30.00					0.110
41	41 Total Hexa-Dioxins		0.00e0	10.1260	0.976			0.000		33.80					0.375
42	42 Total Hepta-Dioxins		6.70e4	10.1260	0.989			0.000		37.75		2.2395		3.94	0.586
43	43 Total Tetra-Furans		1.34e5	10.1260	0.943			0.000		24.00					0.132
44	44 1st Func. Penta-Fur...		0.00e0	10.1260	0.940			0.000		27.63					0.0879
45	45 Total Penta-Furans		0.00e0	10.1260	0.940			0.000		30.00					0.0902
46	46 Total Hexa-Furans		0.00e0	10.1260	1.078			0.000		33.00					0.151
47	47 Total Hepta-Furans		0.00e0	10.1260	1.135			0.000		37.75		2.0350		2.04	0.377

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-9.qld

Last Altered: Tuesday, December 10, 2019 09:39:19 Pacific Standard Time

Printed: Tuesday, December 10, 2019 09:39:55 Pacific Standard Time

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

Calibration: 06 Dec 2019 12:21:27

Name: 191204D2_9, Date: 5-DEC-2019, Time: 13:57:12, ID: 1904016-07 PDI-143RAB-00-10-191111,
 Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 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									

Hepta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	YES	37.78	287.494	34521.320	0.000	bb	0.0000	1.70
2	42 Total Hepta-Dioxins	NO	36.91	370.715	34521.320	22.421	MM	2.2395	2.24

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									

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-9.qld

Last Altered: Tuesday, December 10, 2019 09:39:19 Pacific Standard Time

Printed: Tuesday, December 10, 2019 09:39:55 Pacific Standard Time

Name: 191204D2_9, Date: 5-DEC-2019, Time: 13:57:12, ID: 1904016-07 PDI-143RAB-00-10-191111,
 Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 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									

Hepta-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	47 Total Hepta-Furans	NO	38.96	156.373	19189.852	10.007	MM	0.8710	0.87
2	47 Total Hepta-Furans	NO	38.90	209.692	19189.852	13.375	MM	1.1641	1.16

Vista Analytical Laboratory

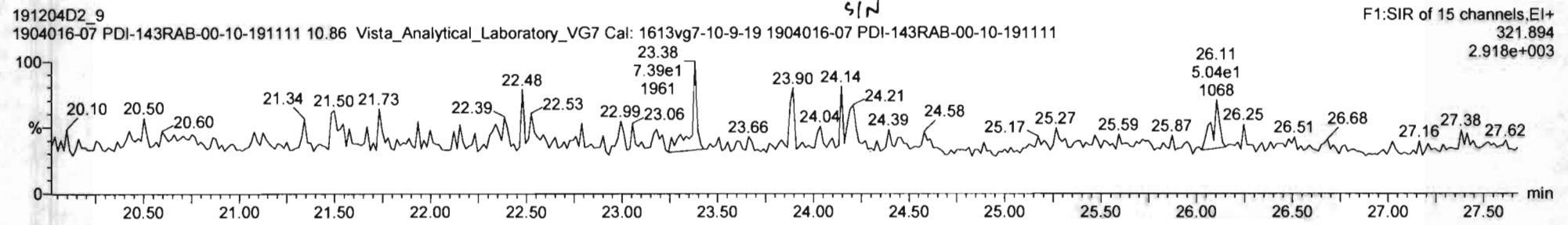
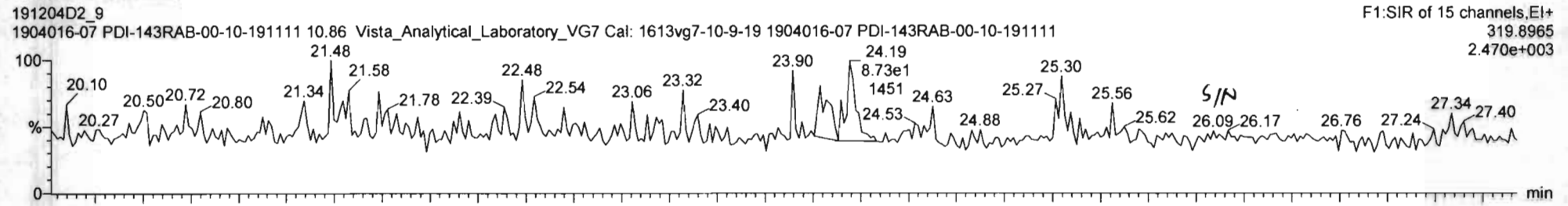
Dataset: Untitled

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

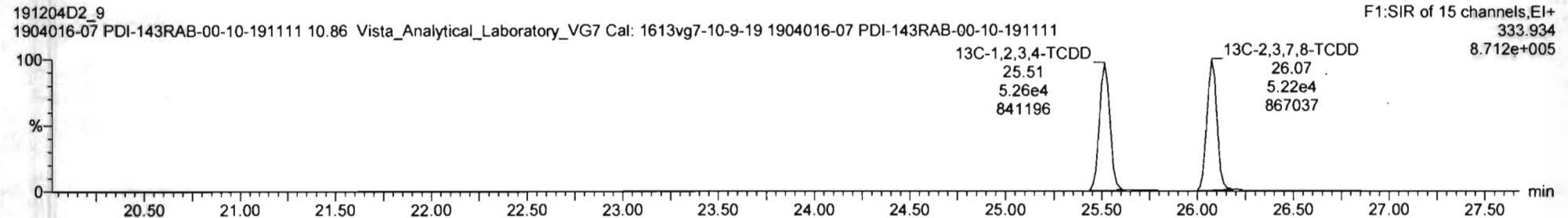
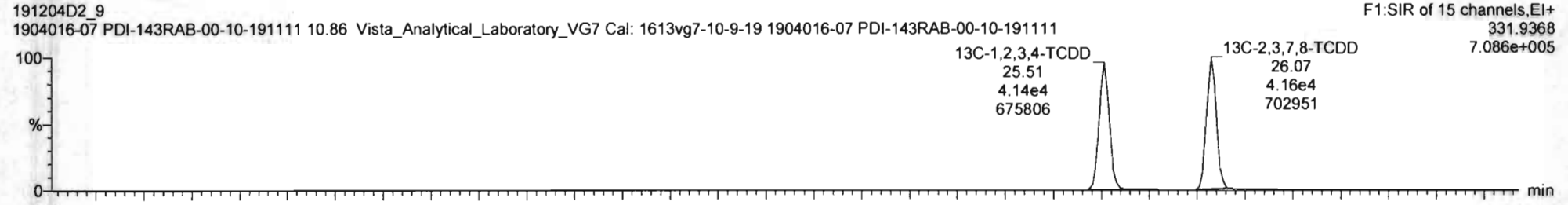
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Name: 191204D2_9, Date: 5-DEC-2019, Time: 13:57:12, ID: 1904016-07 PDI-143RAB-00-10-191111,
Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 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: Friday, December 06, 2019 10:31:48 Pacific Standard Time

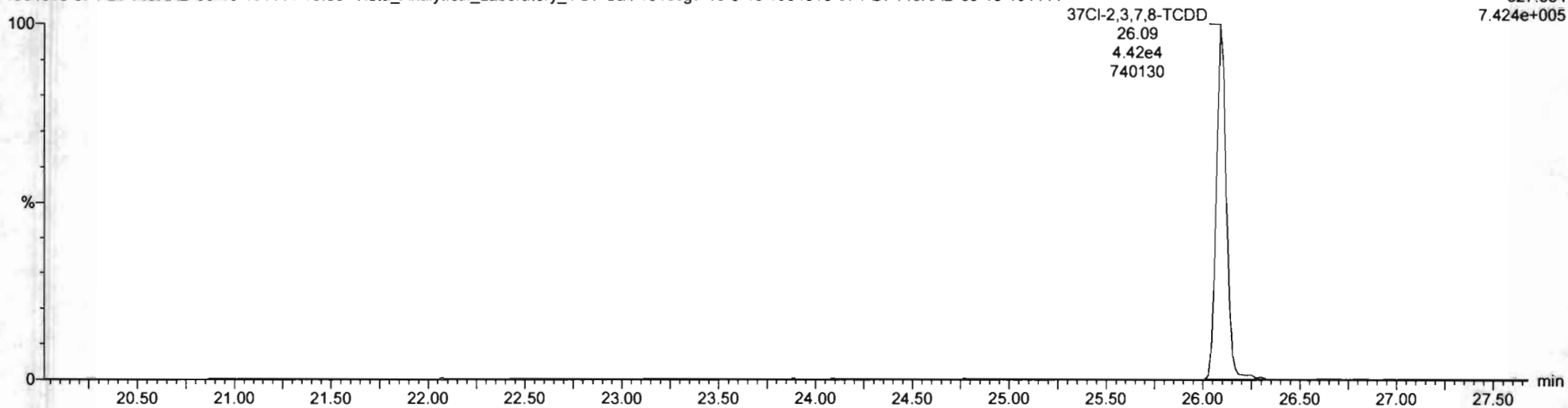
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Name: 191204D2_9, Date: 5-DEC-2019, Time: 13:57:12, ID: 1904016-07 PDI-143RAB-00-10-191111,
 Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

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

191204D2_9
 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-07 PDI-143RAB-00-10-191111

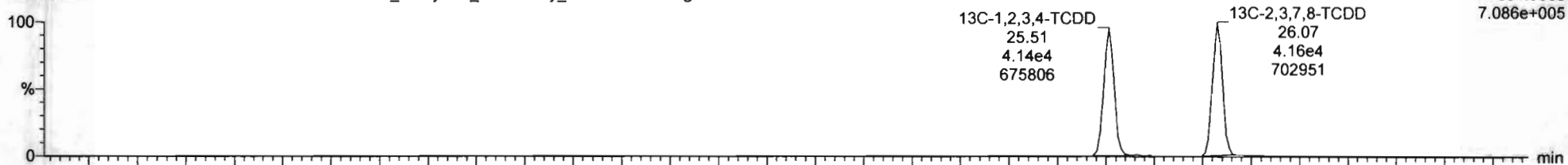
F1:SIR of 15 channels,EI+
 327.884
 7.424e+005



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

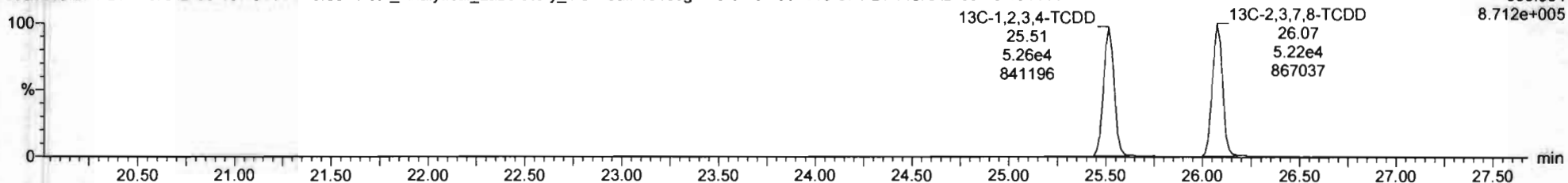
191204D2_9
 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-07 PDI-143RAB-00-10-191111

F1:SIR of 15 channels,EI+
 331.9368
 7.086e+005



191204D2_9
 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-07 PDI-143RAB-00-10-191111

F1:SIR of 15 channels,EI+
 333.934
 8.712e+005



Vista Analytical Laboratory

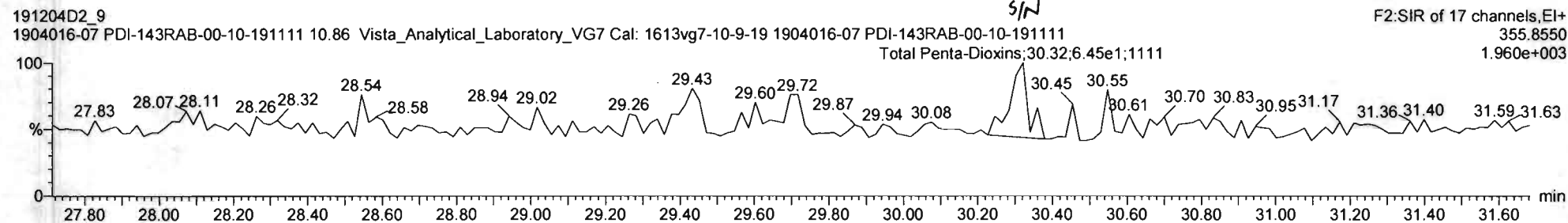
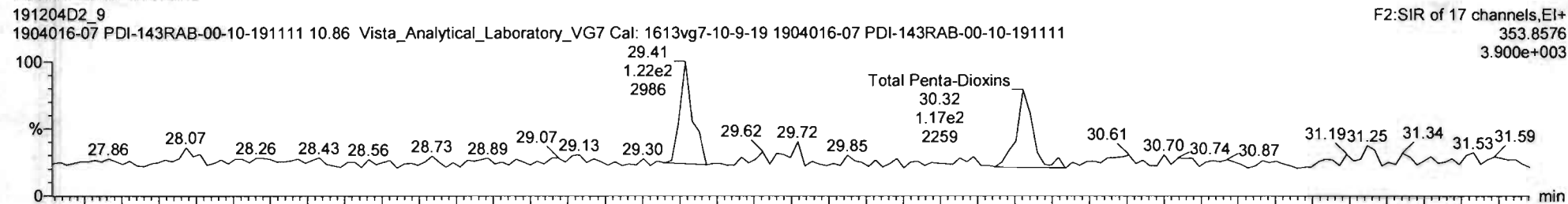
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

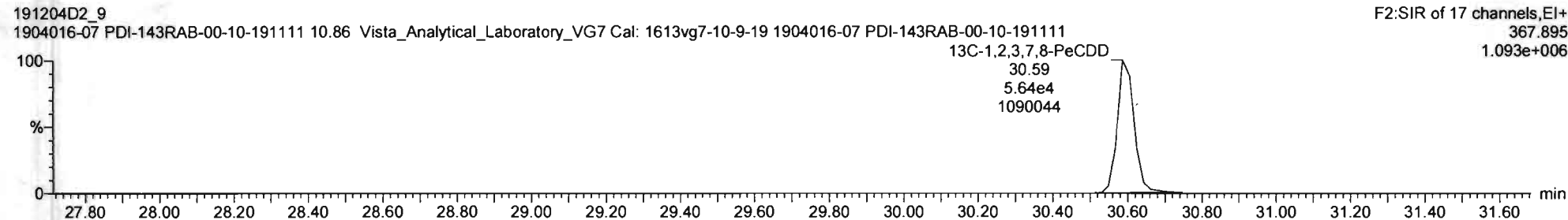
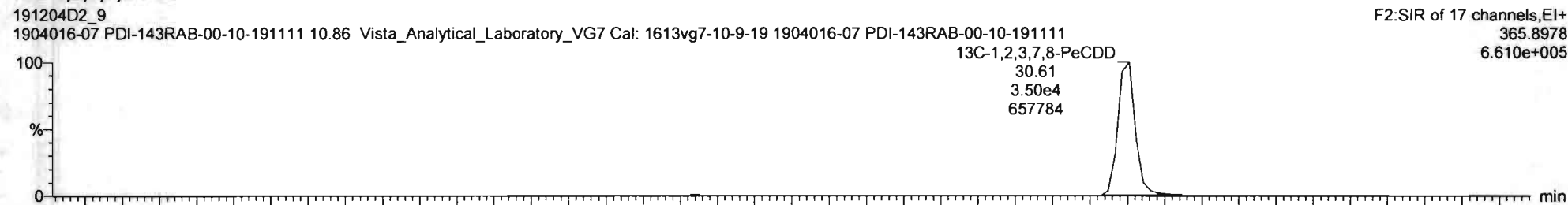
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Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Penta-Dioxins



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



Vista Analytical Laboratory

Dataset: Untitled

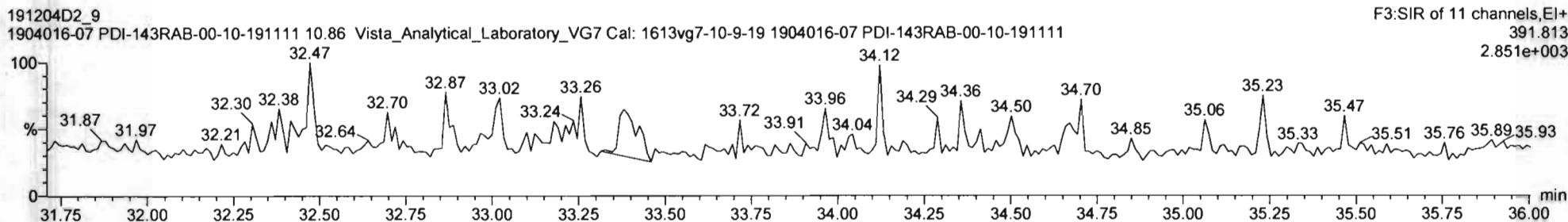
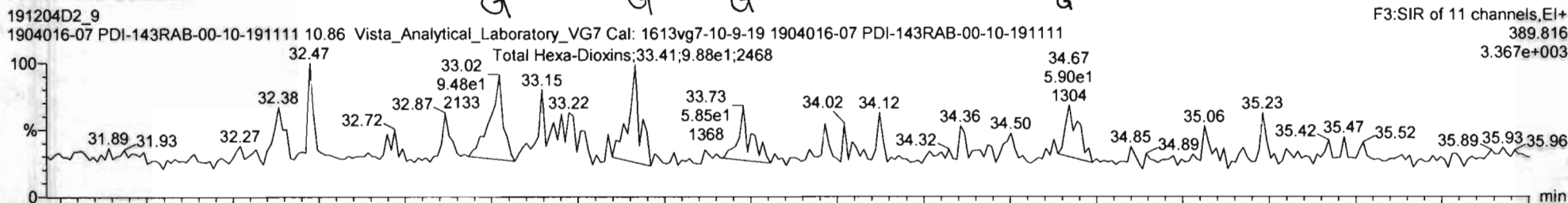
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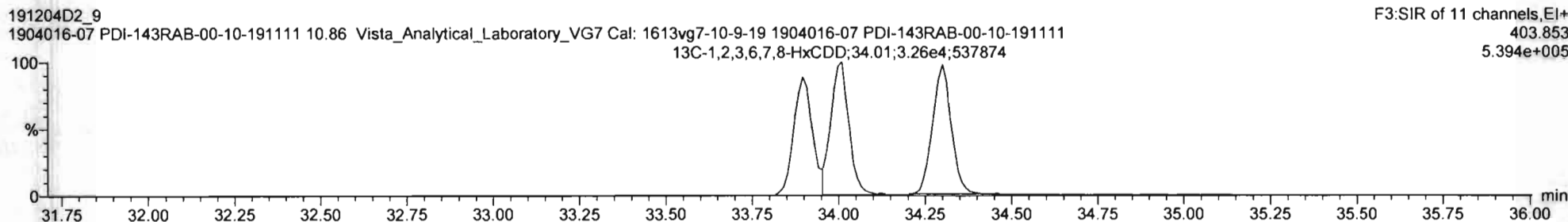
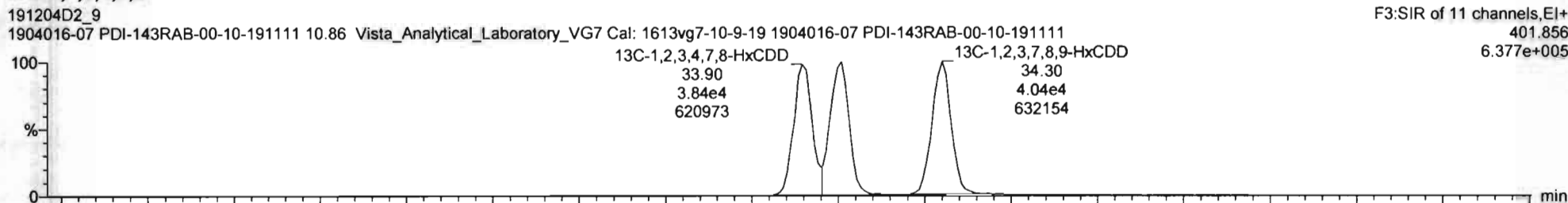
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Total Hexa-Dioxins

G G G G



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



Vista Analytical Laboratory

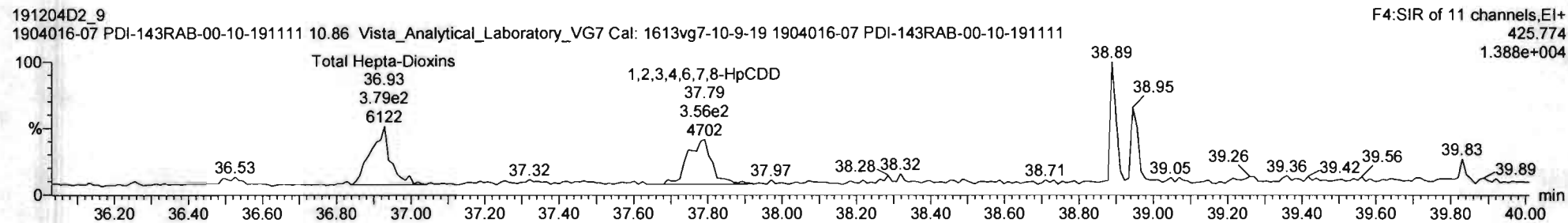
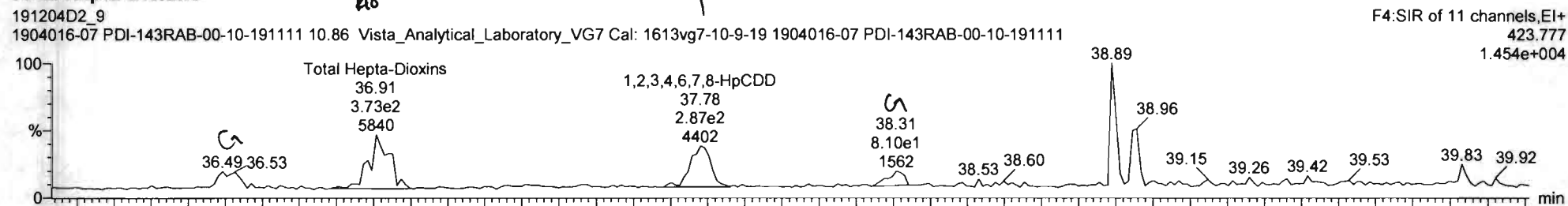
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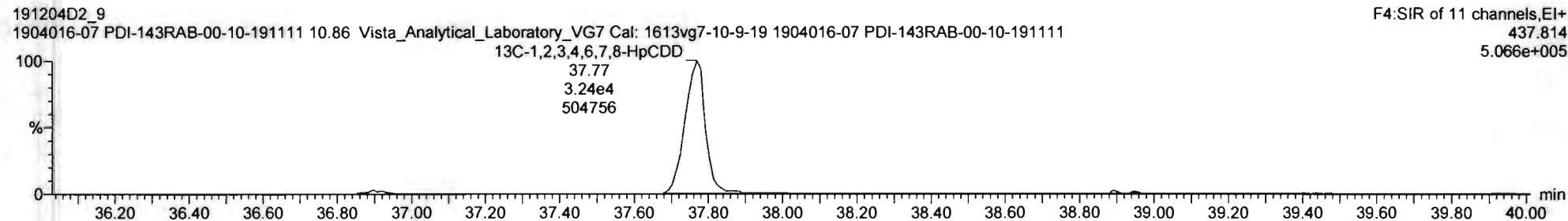
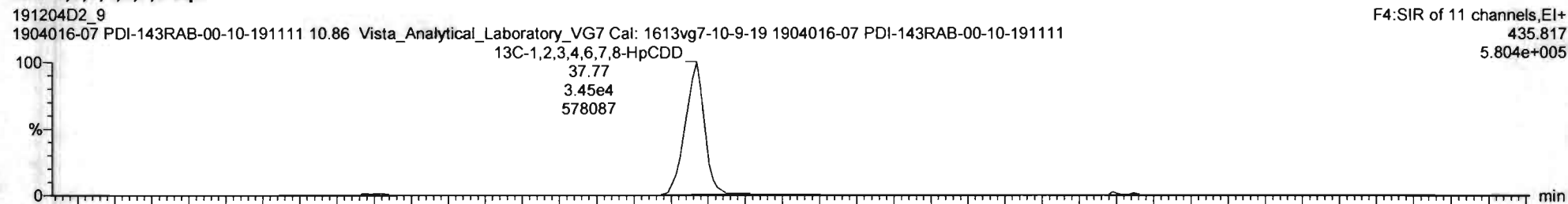
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Total Hepta-Dioxins

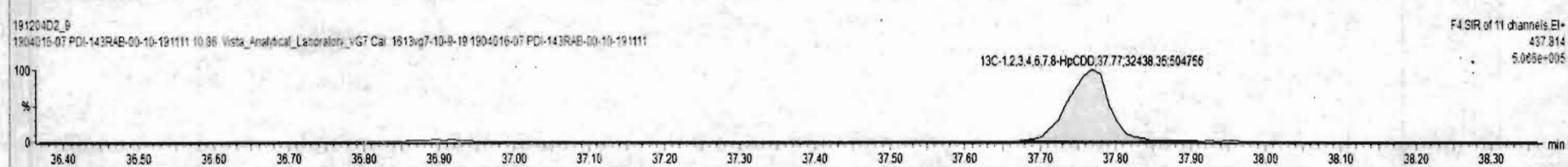
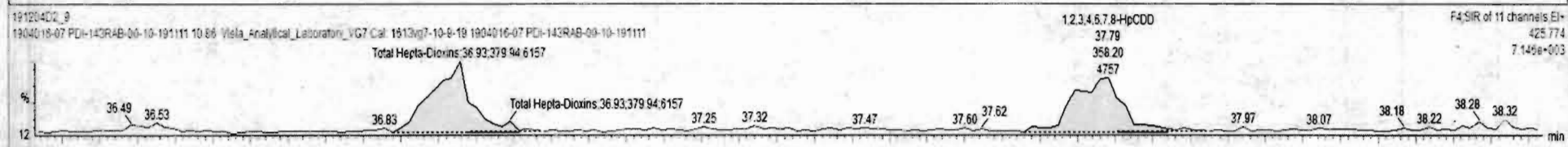
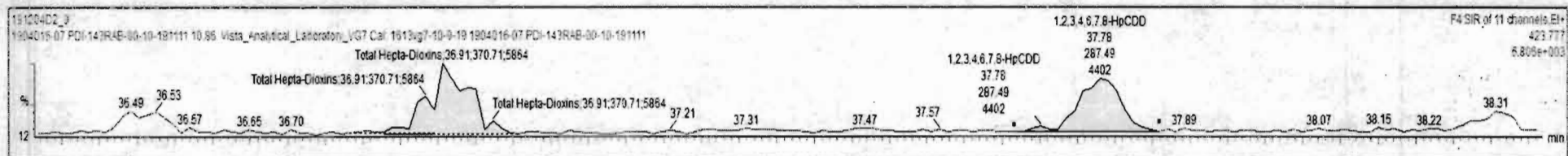


13C-1,2,3,4,6,7,8-HpCDD



Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS1	RA	Y/N	RR1	Acq Date	Acq Time	1 st Chr Noise	D	Sample Text	Factor1	SV1	Cal File
42 Total Hepta-Dioxins	2.23952	0.586		3.93793			42						5-DEC-29	13:57:12		1904016-07	1904016-07 PDI...	0.0	10.1	
43 Total Tetra-Furans	0.221642	0.262		0.221642			43						5-DEC-29	13:57:12		1904016-07	1904016-07 PDI...	0.0	10.1	
44 1st Func. Penta-Furans		0.0879					44						5-DEC-29	13:57:12		1904016-07	1904016-07 PDI...	0.0	10.1	
45 Total Penta-Furans		0.0902					45						5-DEC-29	13:57:12		1904016-07	1904016-07 PDI...	0.0	10.1	
46 Total Hexa-Furans		0.151					46						5-DEC-29	13:57:12		1904016-07	1904016-07 PDI...	0.0	10.1	
47 Total Hepta-Furans	2.12066	0.377		2.12066			47						5-DEC-29	13:57:12		1904016-07	1904016-07 PDI...	0.0	10.1	
48 PPK1							48										1904016-07		1	

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC
1 1,2,3,4,6,7,8-HpCDD	37.78	4.402e3	4.757e3	2.875e2	3.582e2	0.80	YES	6.457e2	0.000	1.70
2 Total Hepta-Dioxins	36.91	5.864e3	6.157e3	3.707e2	3.759e2	0.96	NO	7.507e2	2.24	2.24



Vista Analytical Laboratory

Dataset: Untitled

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

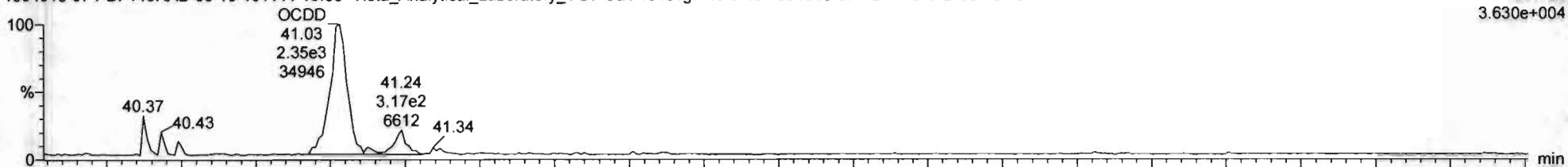
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Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

OCDD

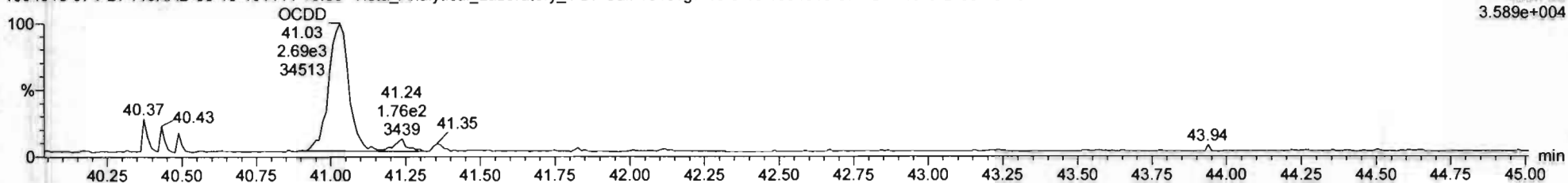
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1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-07 PDI-143RAB-00-10-191111

F5:SIR of 11 channels,EI+
457.738
3.630e+004



191204D2_9
1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-07 PDI-143RAB-00-10-191111

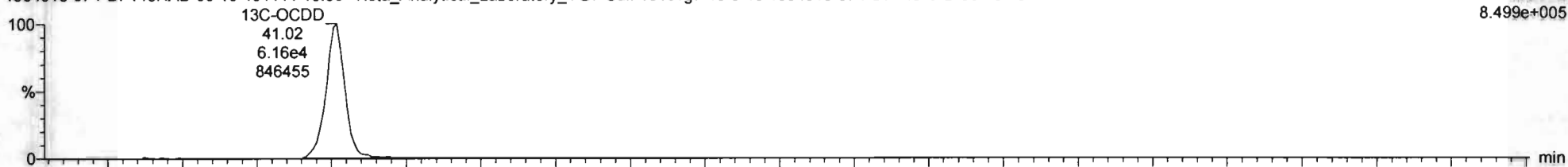
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459.735
3.589e+004



13C-OCDD

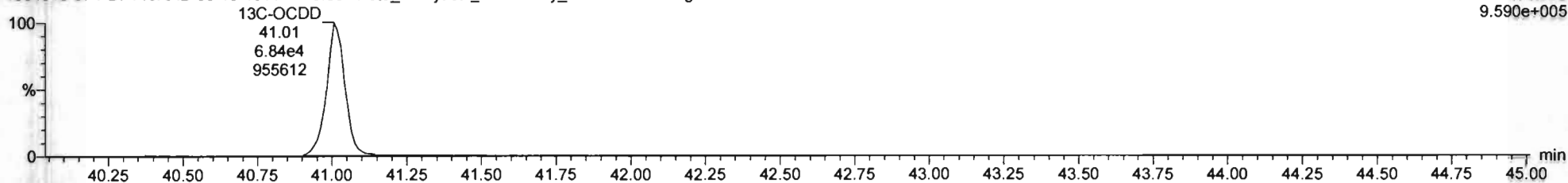
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F5:SIR of 11 channels,EI+
469.778
8.499e+005



191204D2_9
1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-07 PDI-143RAB-00-10-191111

F5:SIR of 11 channels,EI+
471.775
9.590e+005

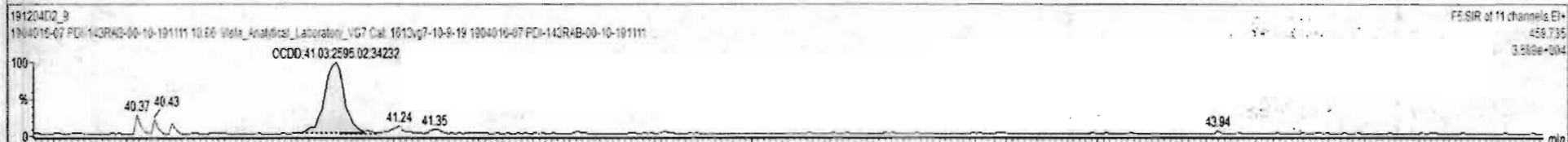
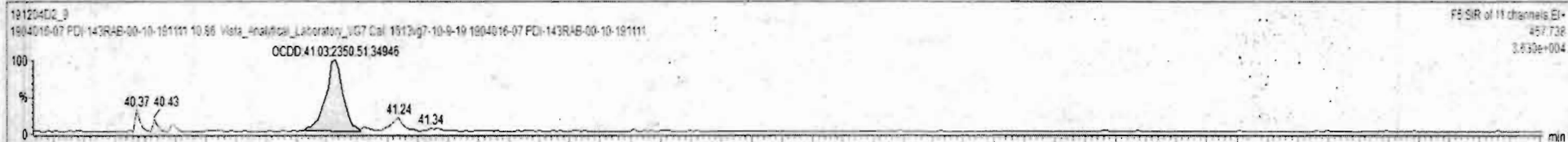




191204D2_9 - 1904016-07 PDI-143RAB-00-10-191111 - 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

#	Name	Conc	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	SI	RA	Y/N	RRT	Acq Date	Acq Time	1 st Chr.Noise	D	Sample Text	Factor1	SWt	Cal File
6	1,2,3,4,6,7,8-HpCDD	1.94466	0.592		1.89841	6.45762		37.78	6	23	0.803	YES	1.000	5-DEC-29	13:57:12	345.911	1904016-07	1904016-07 PDI-143RAB-00-10-191111	0.0	10.1	
7	OCDD	15.6815	1.31		15.6815	4.94663		41.03	7	24	0.906	NO	1.000	5-DEC-29	13:57:12	685.397	1904016-07	1904016-07 PDI-143RAB-00-10-191111	0.0	10.1	
8	2,3,7,8-TCDF		0.260						8	25				5-DEC-29	13:57:12	432.361	1904016-07	1904016-07 PDI-143RAB-00-10-191111	0.0	10.1	
9	1,2,3,7,8-PeCDF		0.195						9	26				5-DEC-29	13:57:12	454.865	1904016-07	1904016-07 PDI-143RAB-00-10-191111	0.0	10.1	
10	2,3,4,7,8-PeCDF		0.162						10	27				5-DEC-29	13:57:12	454.865	1904016-07	1904016-07 PDI-143RAB-00-10-191111	0.0	10.1	
11	1,2,3,4,7,8-HxCDF		0.266						11	28				5-DEC-29	13:57:12	456.630	1904016-07	1904016-07 PDI-143RAB-00-10-191111	0.0	10.1	
12	1,2,3,6,7,8-HxCDF		0.267						12	29				5-DEC-29	13:57:12	456.630	1904016-07	1904016-07 PDI-143RAB-00-10-191111	0.0	10.1	

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



Vista Analytical Laboratory

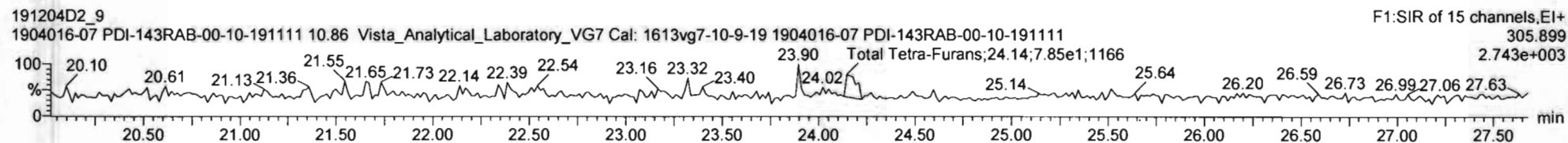
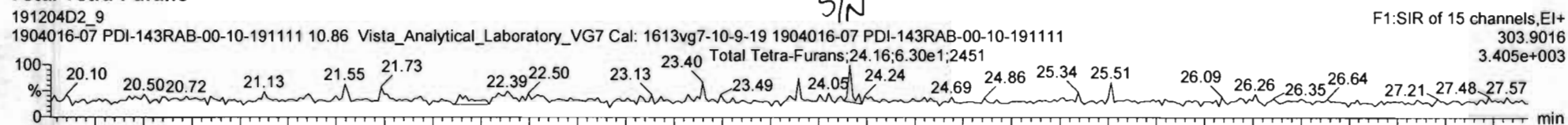
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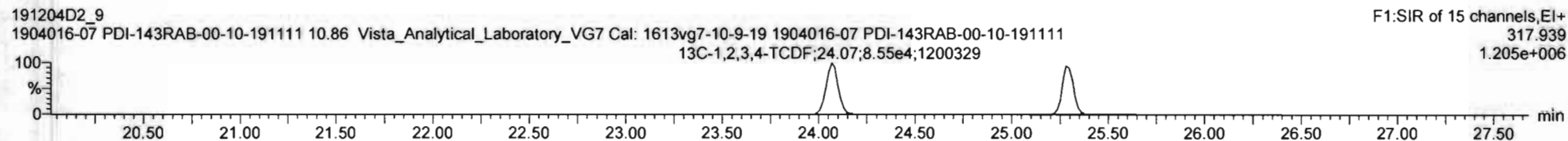
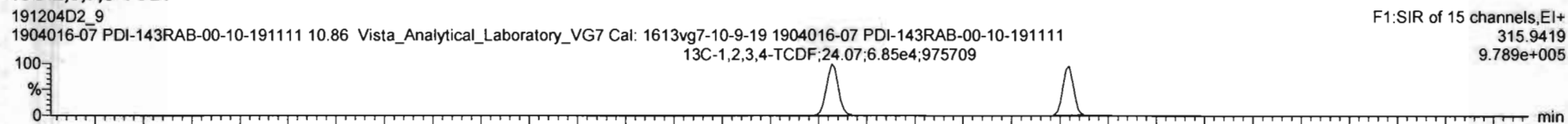
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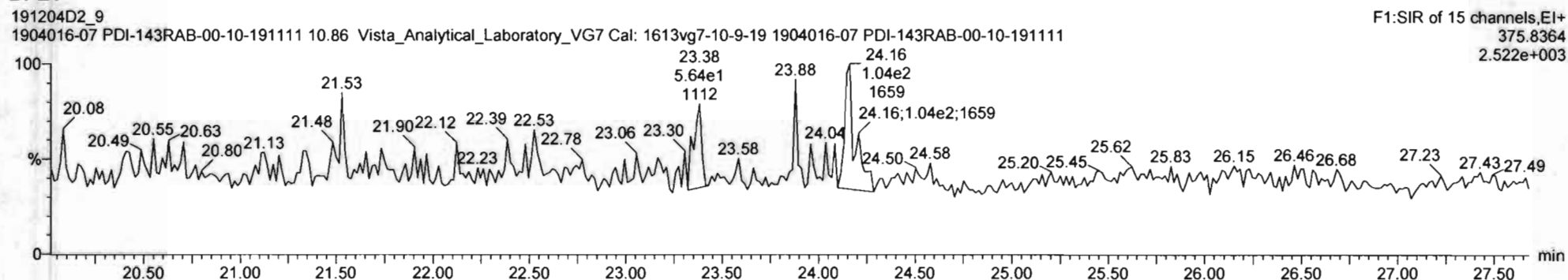
Total Tetra-Furans



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

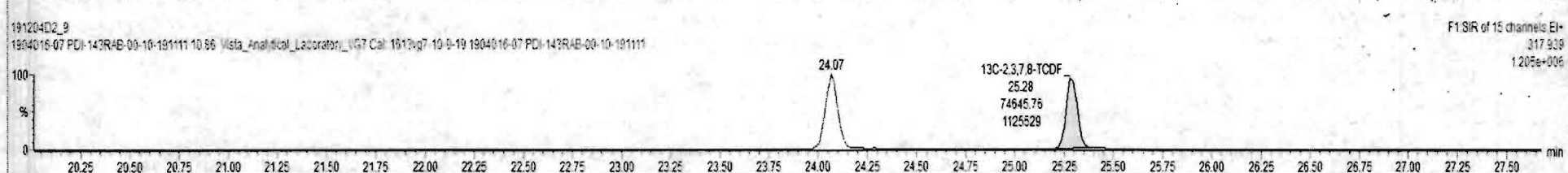
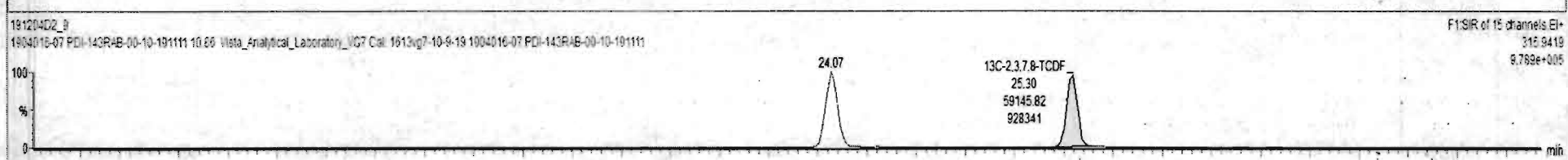
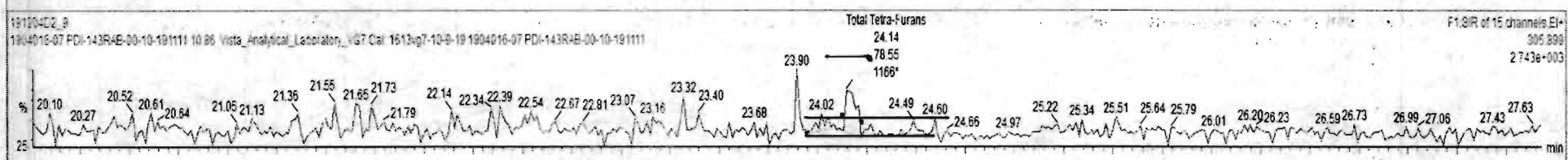
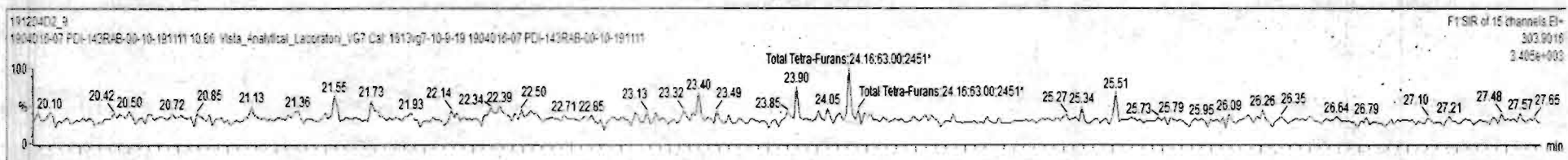


DPE1



#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	w/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins		9.38e4				0.601	10.126	25.50			0.000	NO			0.147	
40	Total Penta-Dioxins		6.14e4				0.672	10.126	30.00			0.000	NO			0.110	
41	Total Hexa-Dioxins		0.00e0				0.676	10.126	33.80			0.000	NO			0.375	
42	Total Hepta-Dioxins		6.70e4				0.989	10.126	37.75			0.000	NO	2.240		0.586	3.938
43	Total Tetra-Furans		1.34e5				0.943	10.126	24.00			0.000	NO	0.2216		0.262	0.2216
44	1st Func. Penta-Furans		0.00e0				0.940	10.126	27.63			0.000	NO			0.0875	
45	Total Penta-Furans		0.00e0				0.940	10.126	30.00			0.000	NO			0.0902	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	24.00	24.16	6.300e1	7.655e1	6.770	0.80	NO	0.22164	0.22164



Vista Analytical Laboratory

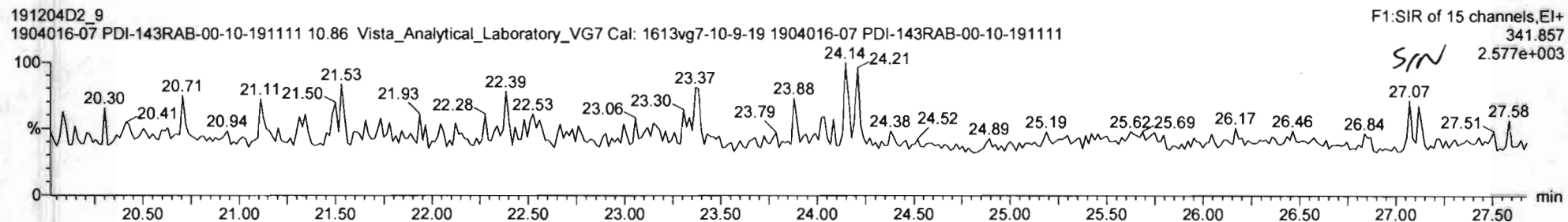
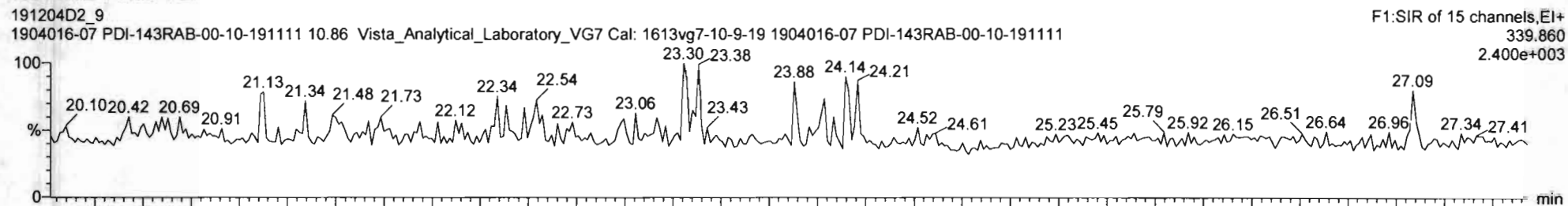
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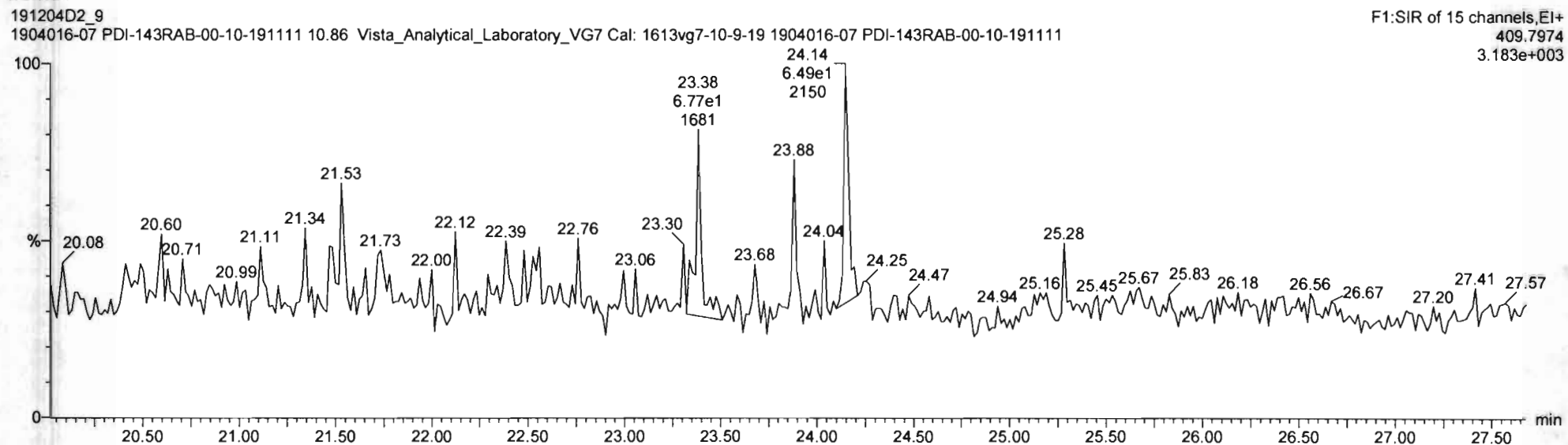
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Name: 191204D2_9, Date: 5-DEC-2019, Time: 13:57:12, ID: 1904016-07 PDI-143RAB-00-10-191111,
Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

1st Func. Penta-Furans

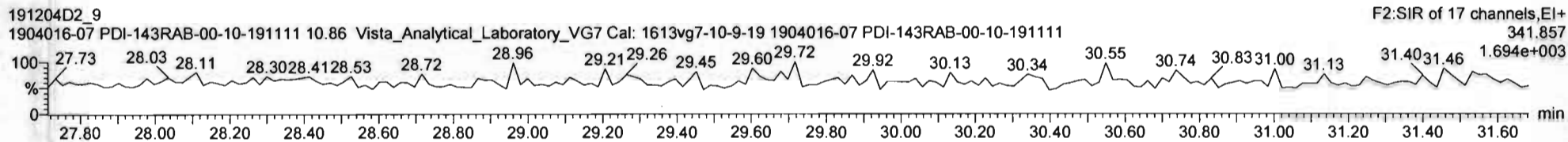
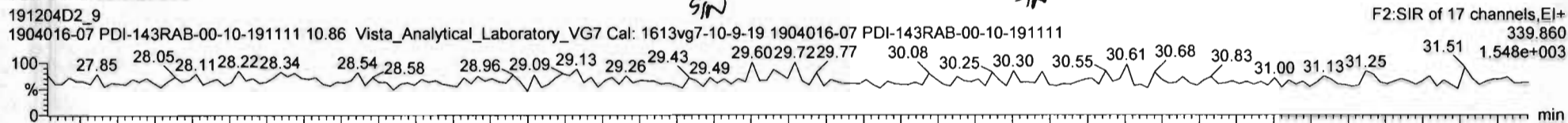


DPE6

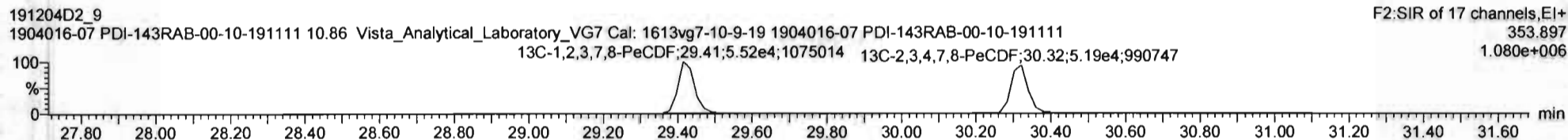
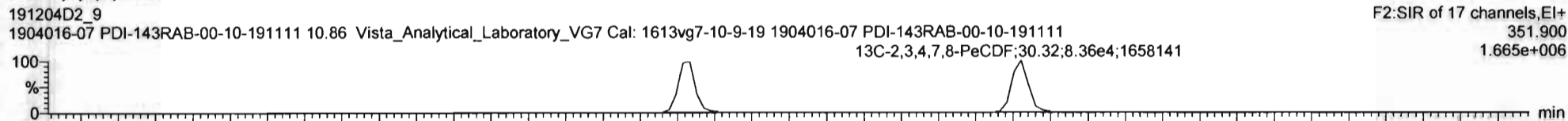


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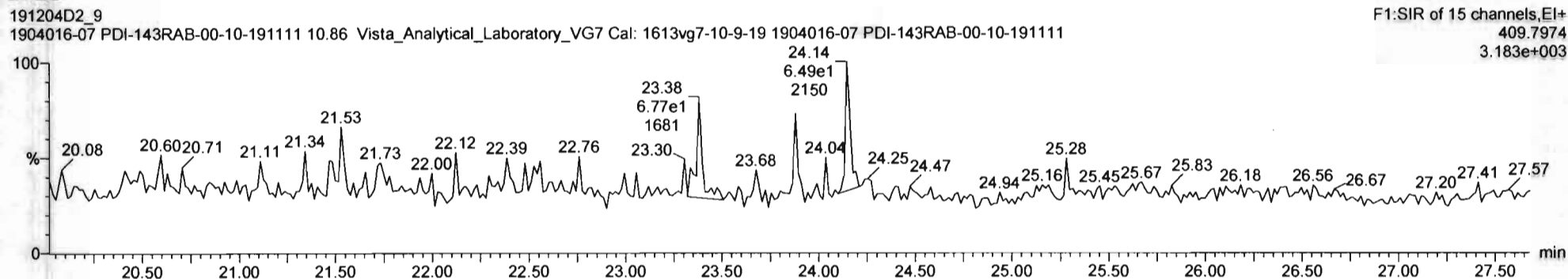
Total Penta-Furans



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

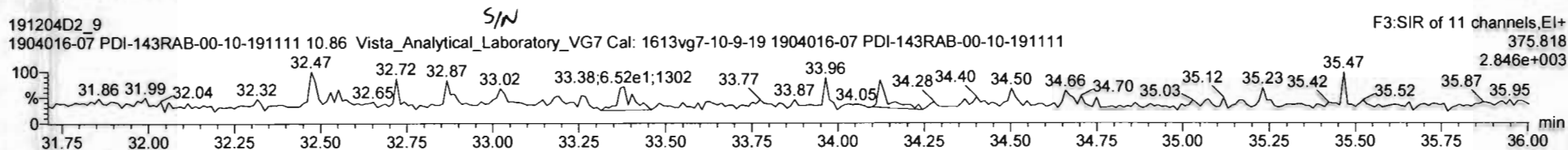
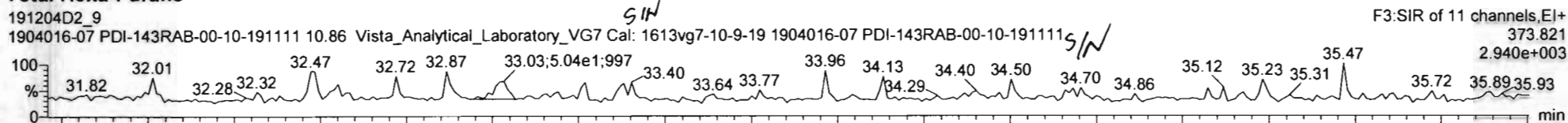


DPE2

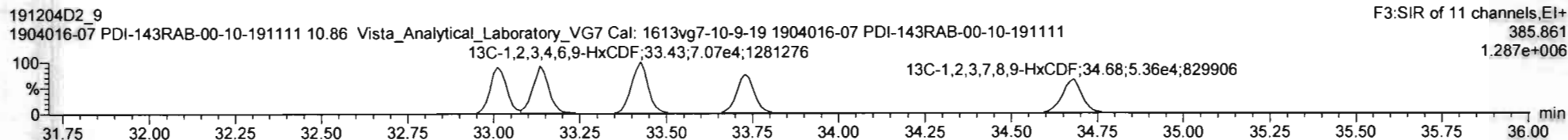
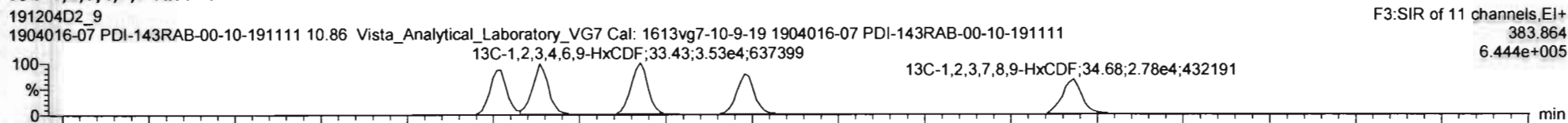


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Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

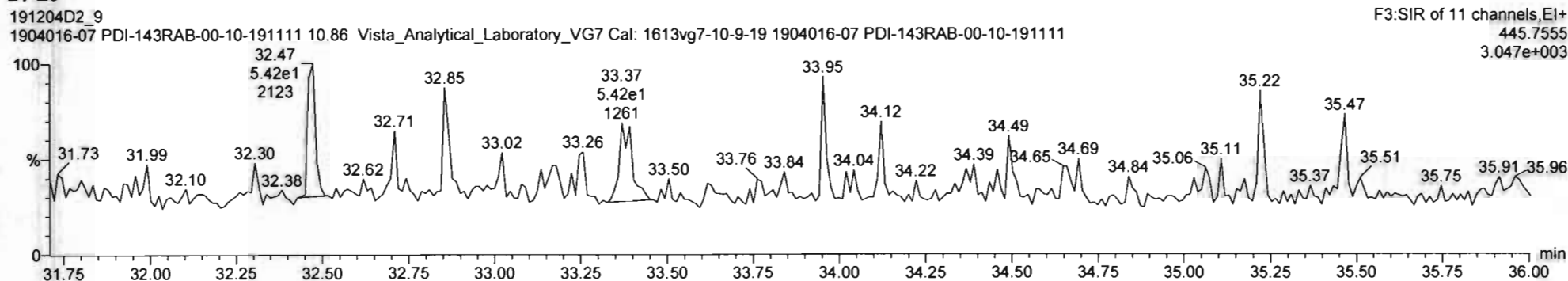
Total Hexa-Furans



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

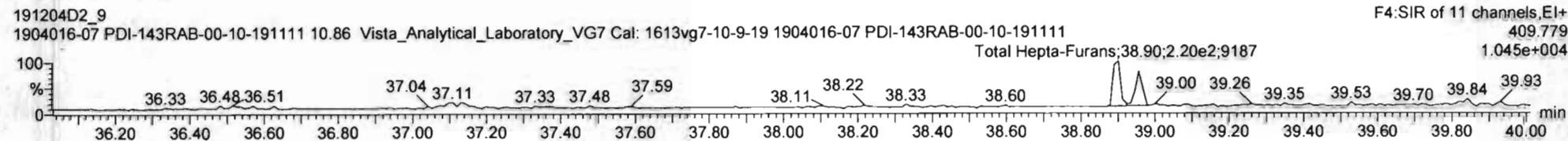
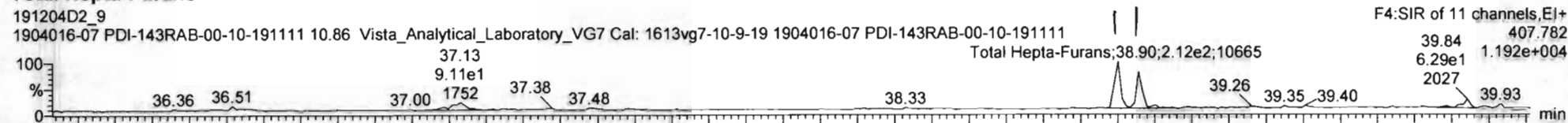


DPE3

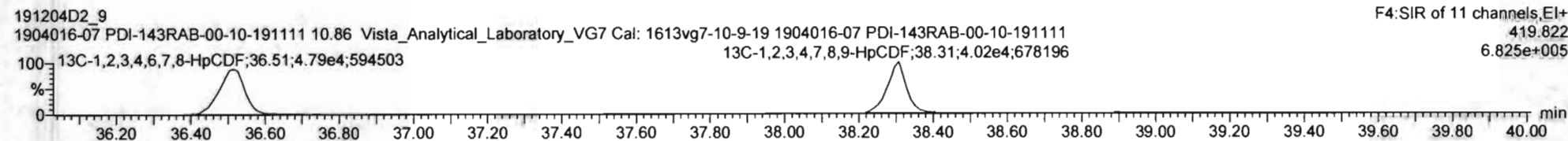
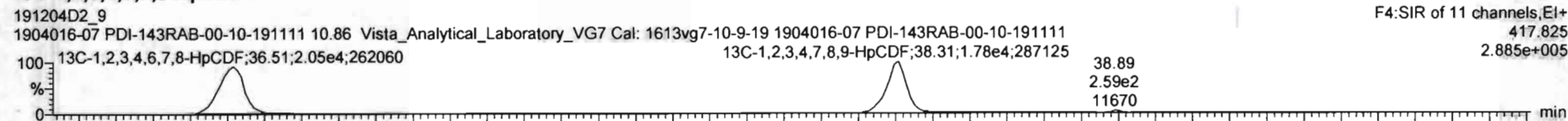


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 Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

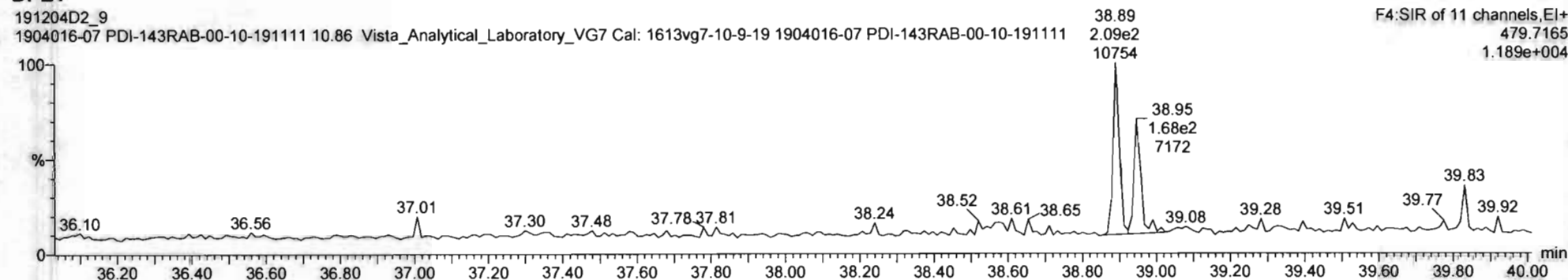
Total Hepta-Furans



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



DPE4

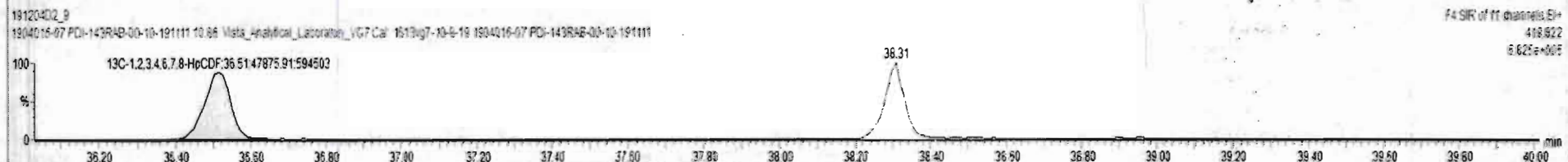
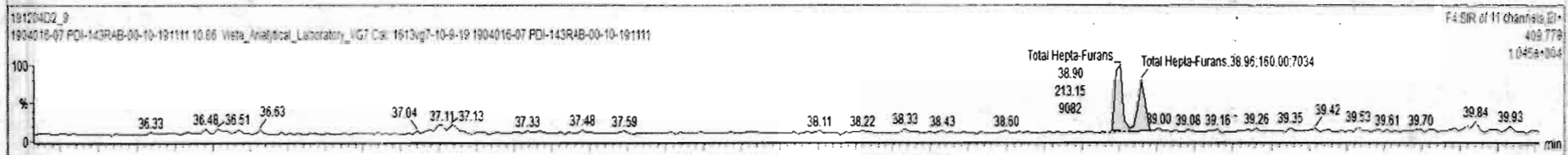




191204D2_9 - 1904016-07 PDI-143RAB-00-10-191111 - 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

#	Name	Resp	IS Resp	ISF	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans	0.00e0					1.078	10.126	33.08			0.000	NO			0.151	
47	Total Hepta-Furans	0.06e0					1.135	10.126	37.75			0.000	NO	2.035		0.377	2.035
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	47 Total Hepta-Furans	37.75	38.90	2.097e2	2.131e2	1.040	0.96	NO	1.1641	1.1641
2	47 Total Hepta-Furans	37.75	38.96	1.564e2	1.600e2	1.040	0.96	NO	0.87096	0.87096



Vista Analytical Laboratory

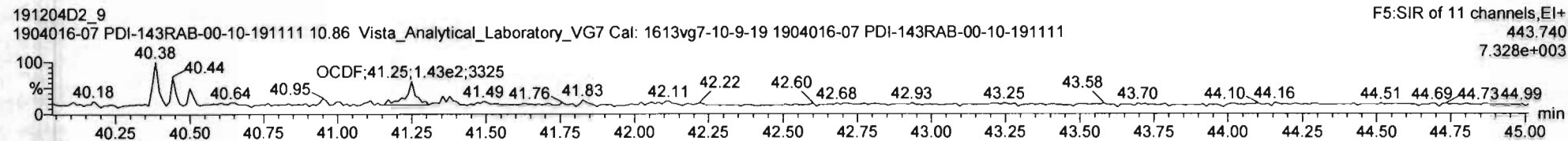
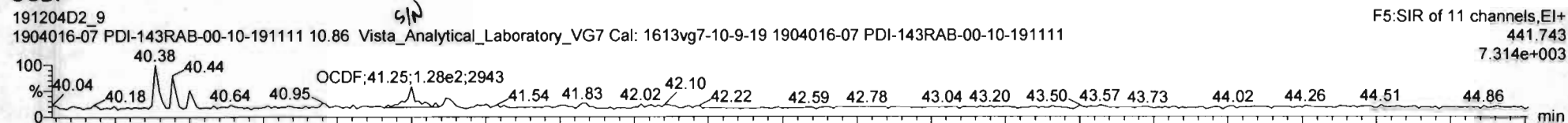
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

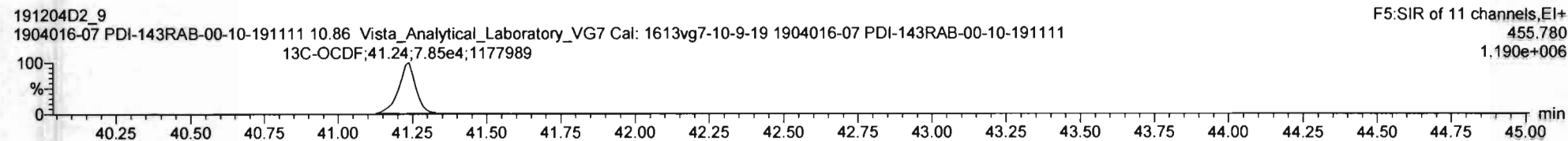
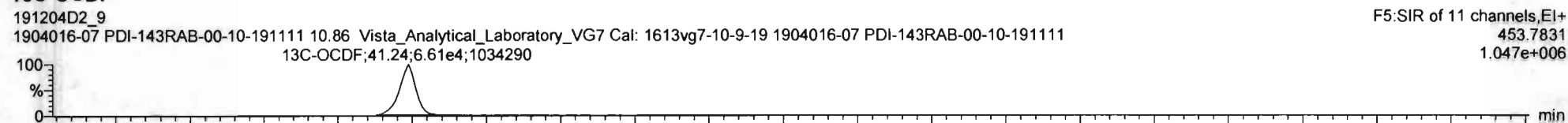
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Name: 191204D2_9, Date: 5-DEC-2019, Time: 13:57:12, ID: 1904016-07 PDI-143RAB-00-10-191111, Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

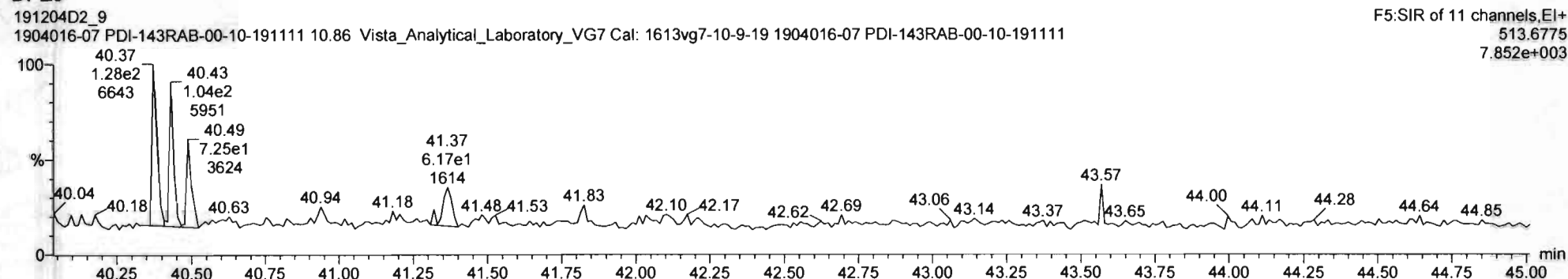
OCDF



13C-OCDF

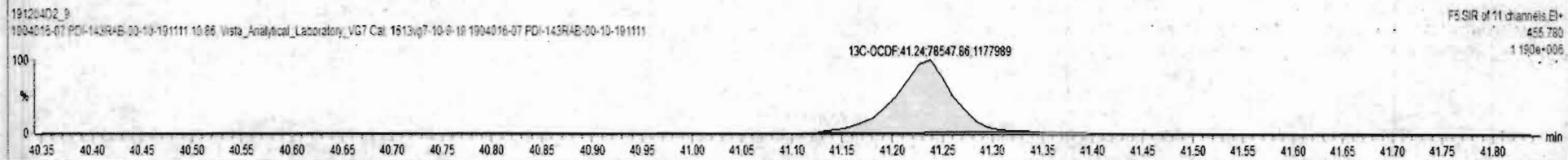
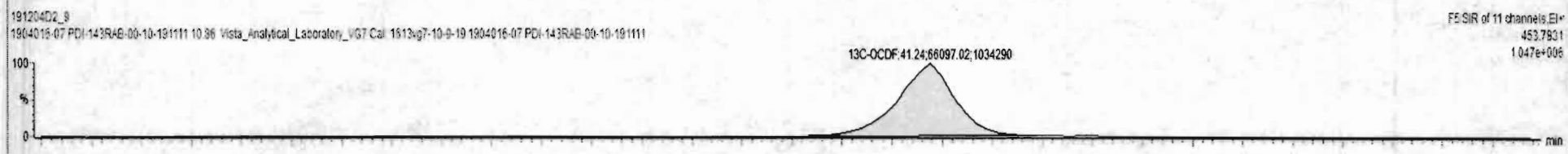
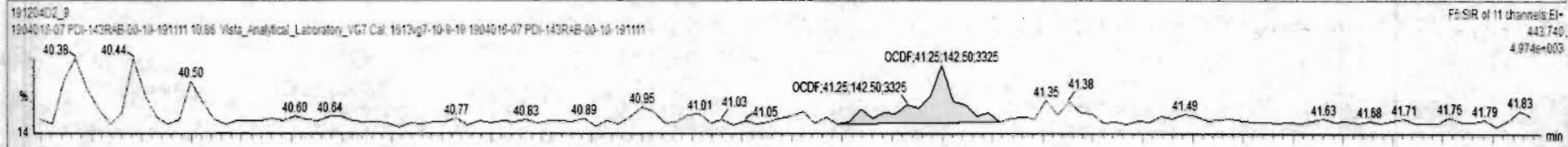
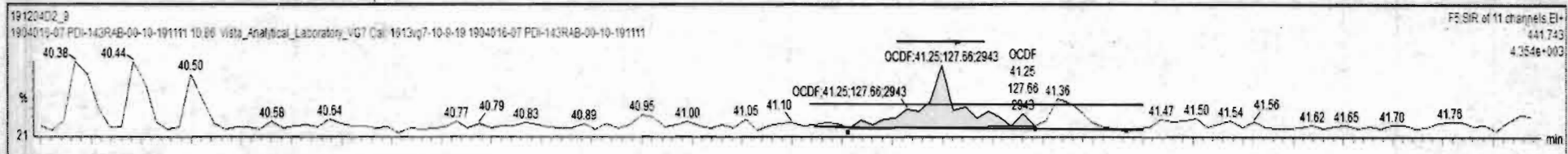


DPE5



#	Name	Resp	IS Resp	ISF	RA	nly	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
15	1,2,3,4,6,7,8-HpCDF		6.84e4	32			1.128	10.126	36.55			1.001	NO				0.391
16	1,2,3,4,7,8,9-HpCDF		5.30e4	33			1.280	10.126	39.31			1.000	NO				0.322
17	OCDF	2.70e2	1.45e5	34	0.90	NO	0.947	10.126	41.24	41.25	1.000	1.000	NO	6.7790		0.433	0.7790
18	13C-2,3,7,8-TCDD	9.38e4	9.39e4	36	0.80	NO	1.095	10.126	26.05	26.07	1.022	1.021	NO	160.1	91.2		0.578
19	13C-1,2,3,7,8-PeCDD	9.14e4	9.39e4	36	0.62	NO	0.881	10.126	30.28	30.61	1.200	1.187	NO	218.0	110		0.521
20	13C-1,2,3,4,7,8-HxCDD	6.76e4	1.06e5	38	1.30	NO	0.642	10.126	33.89	33.90	1.014	1.014	NO	197.0	99.7		1.17
21	13C-1,2,3,6,7,8-HxCDD	7.28e4	1.06e5	38	1.24	NO	0.856	10.126	34.01	34.01	1.017	1.017	NO	158.6	80.3		0.860

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.
1										



Vista Analytical Laboratory

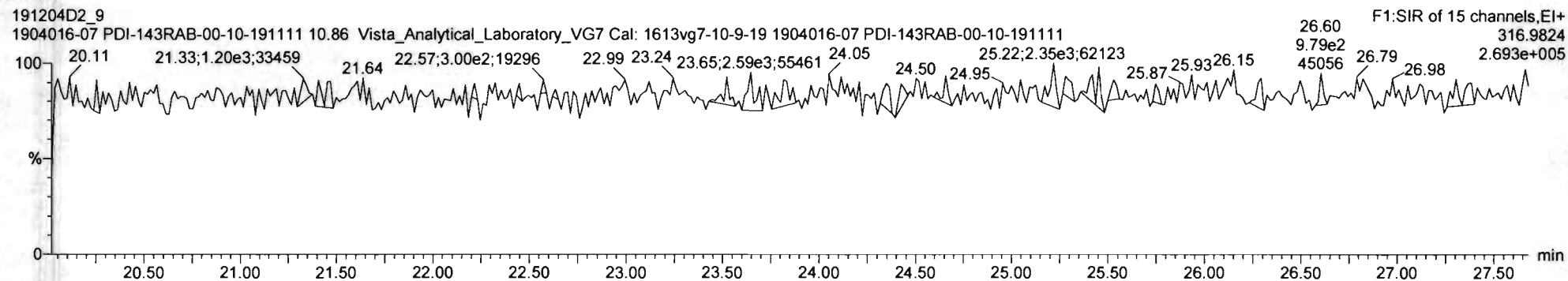
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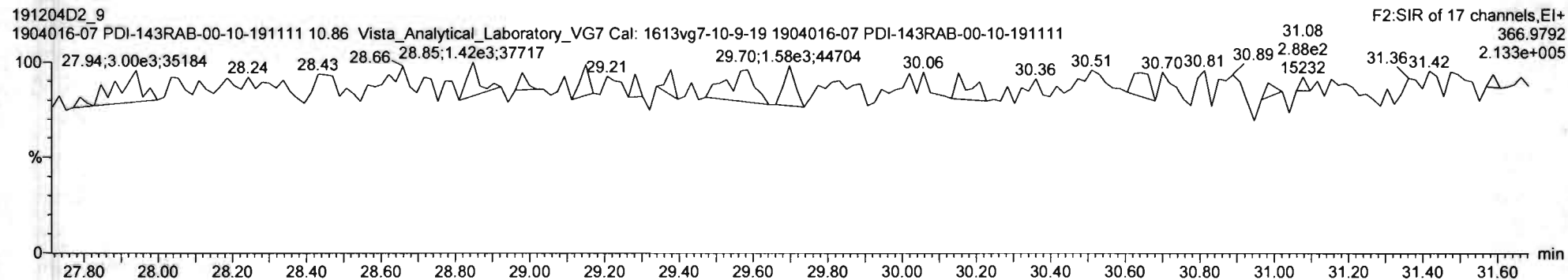
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Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

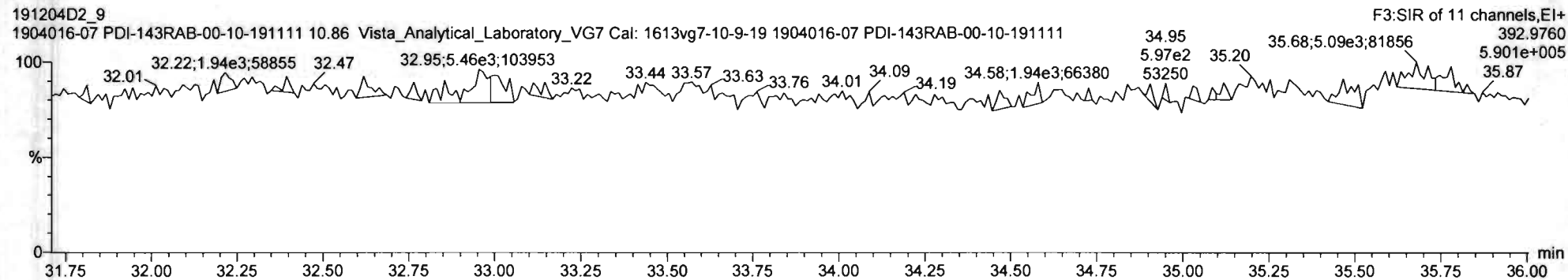
PFK1



PFK2



PFK3



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

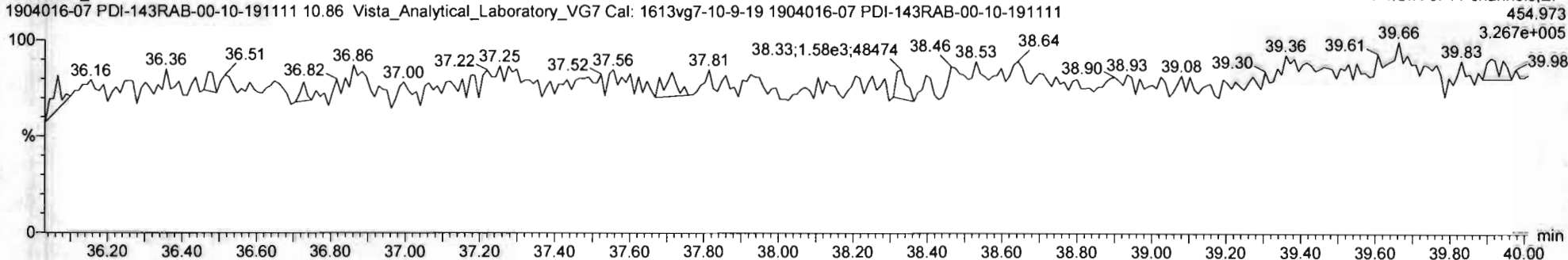
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Description: 1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

PFK4

191204D2_9

1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-07 PDI-143RAB-00-10-191111

F4:SIR of 11 channels,EI+

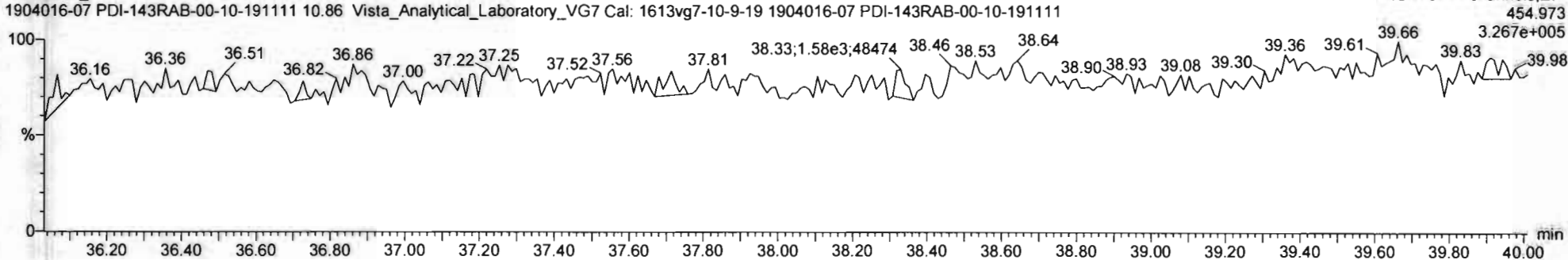


PFK5

191204D2_9

1904016-07 PDI-143RAB-00-10-191111 10.86 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-07 PDI-143RAB-00-10-191111

F4:SIR of 11 channels,EI+



Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
2,3,7,8-TCDD	*	* n	0.91	NotF η	*		94.0	2.5	0.960
1,2,3,7,8-PeCDD	*	* n	0.90	NotF η	*		151	2.5	1.64
1,2,3,4,7,8-HxCDD	*	* n	1.10	NotF η	*		91.0	2.5	1.29
1,2,3,6,7,8-HxCDD	*	* n	0.94	NotF η	*		91.0	2.5	1.54
1,2,3,7,8,9-HxCDD	*	* n	0.96	NotF η	*		91.0	2.5	1.58
1,2,3,4,6,7,8-HpCDD	7.86e+03	0.65 n	0.98	37:47	6.6981		*	2.5	*
OCDD	1.00e+05	0.88 y	0.96	41:02	90.618		*	2.5	*
2,3,7,8-TCDF	*	* n	0.95	NotF η	*		123	2.5	0.758
1,2,3,7,8-PeCDF	*	* n	0.96	NotF η	*		209	2.5	1.92
2,3,4,7,8-PeCDF	*	* n	1.01	NotF η	*		209	2.5	2.11
1,2,3,4,7,8-HxCDF	*	* n	1.18	NotF η	*		152	2.5	1.02
1,2,3,6,7,8-HxCDF	*	* n	1.07	NotF η	*		152	2.5	0.936
2,3,4,6,7,8-HxCDF	*	* n	1.11	NotF η	*		152	2.5	1.06
1,2,3,7,8,9-HxCDF	*	* n	1.06	NotF η	*		152	2.5	1.59
1,2,3,4,6,7,8-HpCDF	*	* n	1.13	NotF η	*		129	2.5	1.42
1,2,3,4,7,8,9-HpCDF	*	* n	1.28	NotF η	*		129	2.5	1.27
OCDF	5.91e+03	1.01 y	0.95	41:14	4.0112		*	2.5	*

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		94.0	0.960
Total Penta-Dioxins	*	*		151	1.64
Total Hexa-Dioxins	*	*		91.0	1.48
Total Hepta-Dioxins	*	12.8		*	*
Total Tetra-Furans	*	*		123	0.758
Total Penta-Furans	0.0000	0.0000		209	2.02
Total Hexa-Furans	*	*		152	1.13
Total Hepta-Furans	*	*		129	1.35

IS	13C-2,3,7,8-TCDD	4.12e+05	0.82 y	1.10	26:03	120.43
IS	13C-1,2,3,7,8-PeCDD	3.10e+05	0.67 y	0.88	30:36	112.72
IS	13C-1,2,3,4,7,8-HxCDD	2.43e+05	1.36 y	0.64	33:54	121.91
IS	13C-1,2,3,6,7,8-HxCDD	3.03e+05	1.33 y	0.86	34:00	114.14
IS	13C-1,2,3,7,8,9-HxCDD	2.83e+05	1.36 y	0.81	34:19	113.13
IS	13C-1,2,3,4,6,7,8-HpCDD	2.39e+05	1.05 y	0.65	37:47	117.83
IS	13C-OCDD	4.60e+05	0.88 y	0.58	41:01	255.76
IS	13C-2,3,7,8-TCDF	6.25e+05	0.75 y	1.03	25:15	115.16
IS	13C-1,2,3,7,8-PeCDF	4.86e+05	1.42 y	0.85	29:25	108.57
IS	13C-2,3,4,7,8-PeCDF	4.70e+05	1.55 y	0.85	30:19	105.87
IS	13C-1,2,3,4,7,8-HxCDF	3.21e+05	0.56 y	0.83	33:01	124.26
IS	13C-1,2,3,6,7,8-HxCDF	3.81e+05	0.48 y	1.03	33:08	118.78
IS	13C-2,3,4,6,7,8-HxCDF	3.32e+05	0.57 y	0.95	33:44	112.27
IS	13C-1,2,3,7,8,9-HxCDF	2.99e+05	0.56 y	0.83	34:42	116.29
IS	13C-1,2,3,4,6,7,8-HpCDF	2.68e+05	0.45 y	0.76	36:31	113.90
IS	13C-1,2,3,4,7,8,9-HpCDF	2.19e+05	0.43 y	0.58	38:19	121.42
IS	13C-OCDF	6.21e+05	0.85 y	0.69	41:14	290.38

Rec Qual

60.3
56.4
61.1
57.2
56.7
59.0
64.0
57.7
54.4
53.0
62.2
59.5
56.2
58.2
57.0
60.8
72.7

C/Up	37C1-2,3,7,8-TCDD	2.87e+05		1.20	26:04	76.687
RS/RT	13C-1,2,3,4-TCDD	6.24e+05	0.80 y	1.00	25:28	199.68
RS	13C-1,2,3,4-TCDF	1.05e+06	0.85 y	1.00	23:60	199.68
RS/RT	13C-1,2,3,4,6,9-HxCDF	6.20e+05	0.54 y	1.00	33:25	199.68

96.0

Integrations
by
Analyst: DB

Reviewed
by
Analyst: CT

Date: 12/12/19

Date: 12/18/19

Totals class: HpCDD EMPC

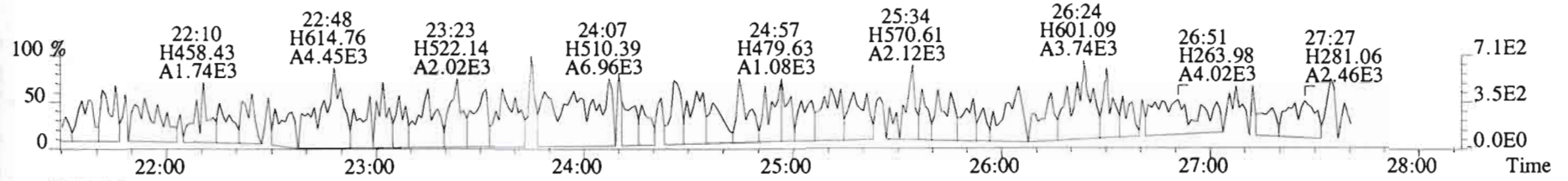
Entry #: 25

Run: 13 File: 191211D2 S: 8 I: 1 F: 4
Acquired: 12-DEC-19 05:56:32 Processed: 12-DEC-19 10:26:41

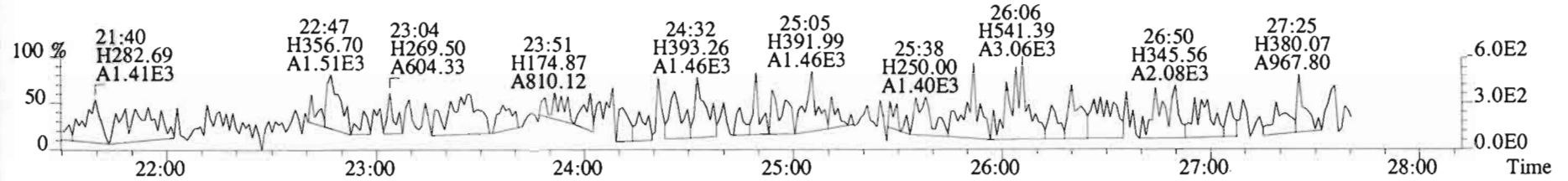
Total Concentration: 12.772 Unnamed Concentration: 6.074

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
36:55	6.164e+03	3.494e+03	1.76	n	7.127e+03	6.0742
37:47	4.007e+03	6.131e+03	0.65	n	7.859e+03	6.6981 1,2,3,4,6,7,8-HpCDD

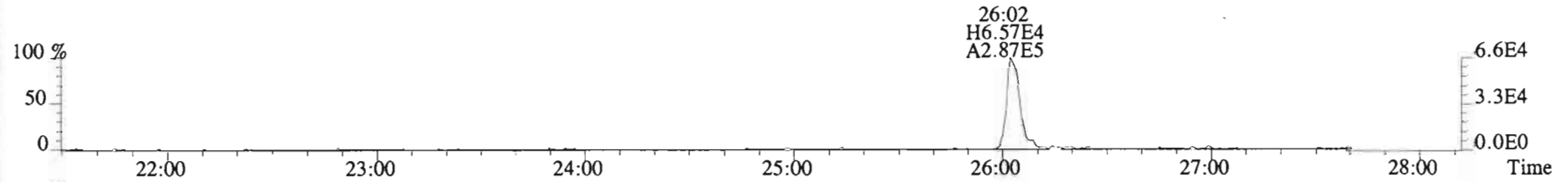
File:191211D2 #1-492 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_DF
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



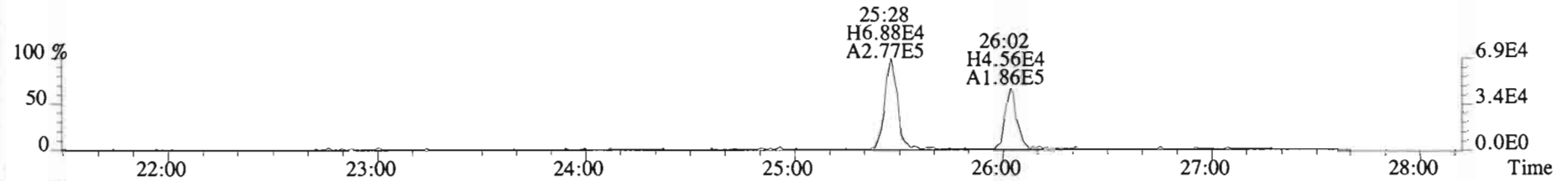
321.8936 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



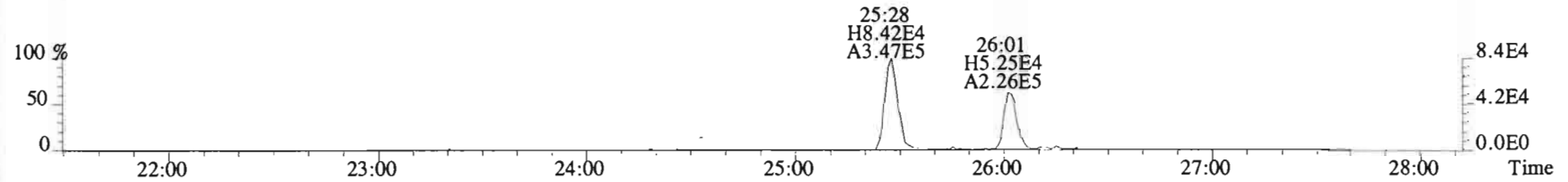
327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



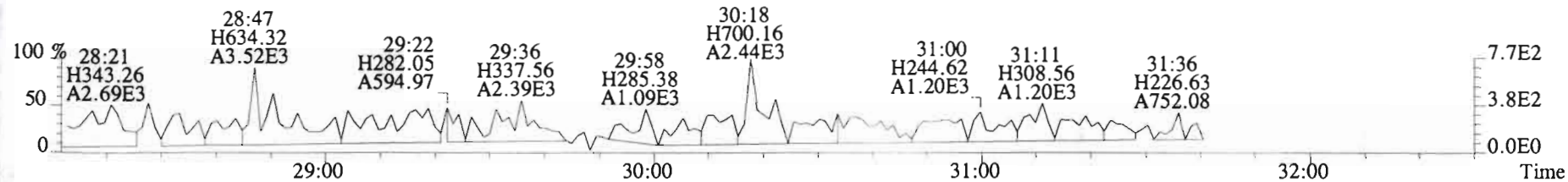
331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



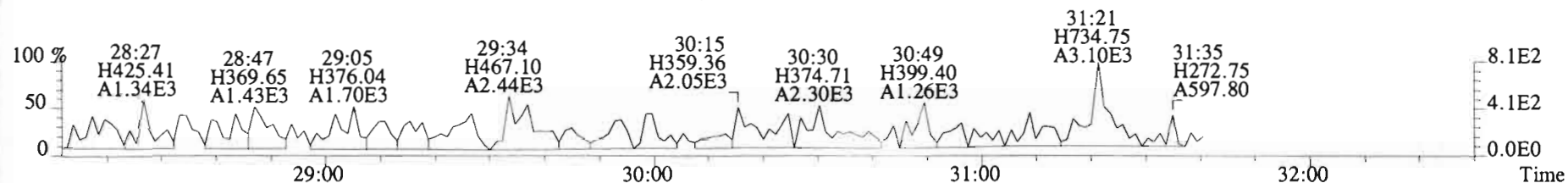
333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



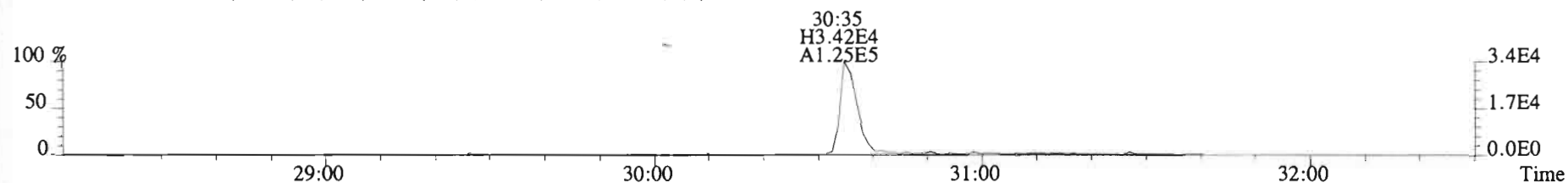
File:191211D2 #1-211 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_D£
353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



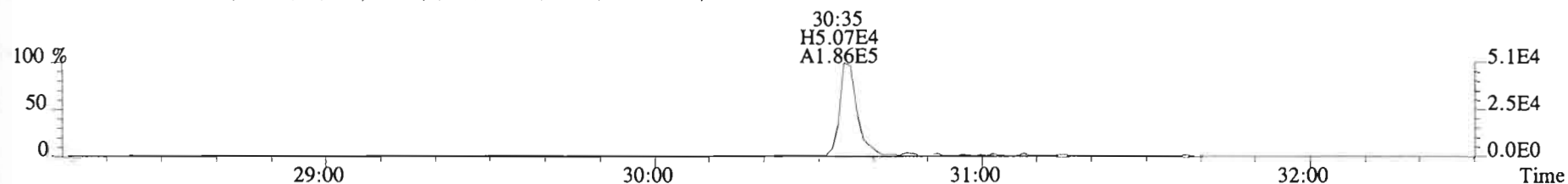
355.8546 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



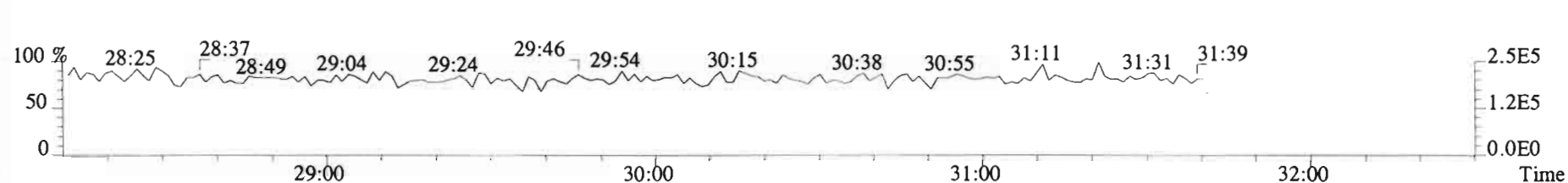
365.8978 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



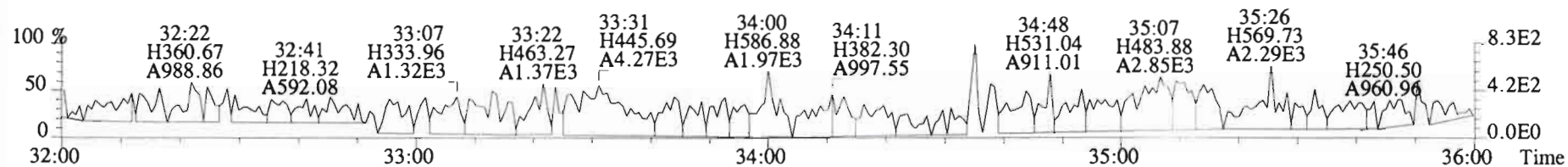
367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



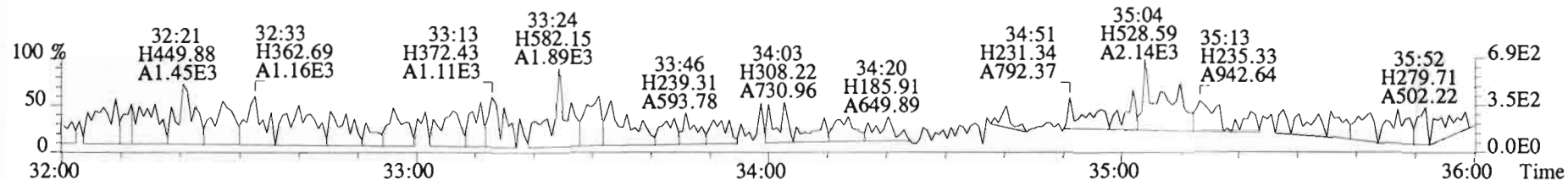
366.9792 S:8 F:2



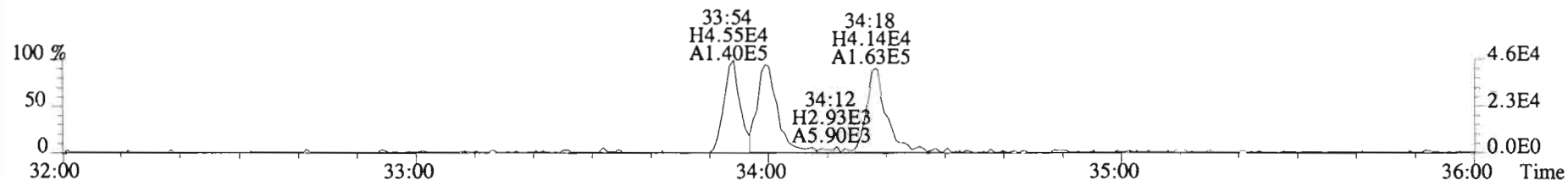
File:191211D2 #1-385 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_Df
 389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



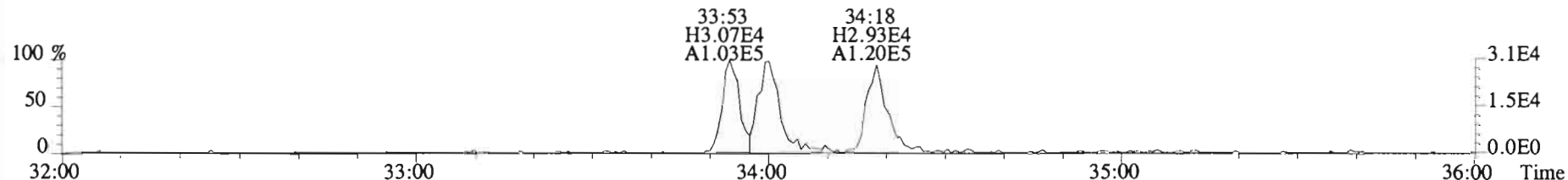
391.8127 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



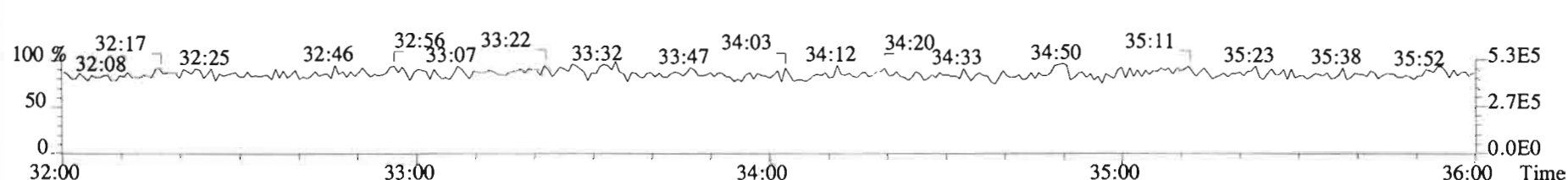
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



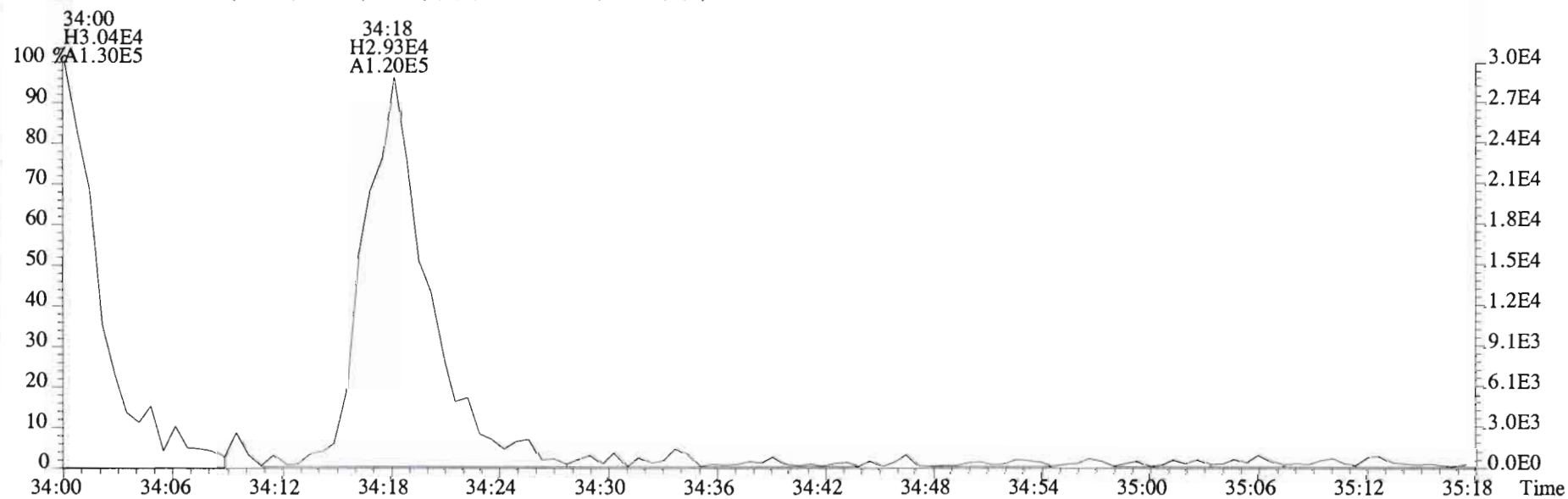
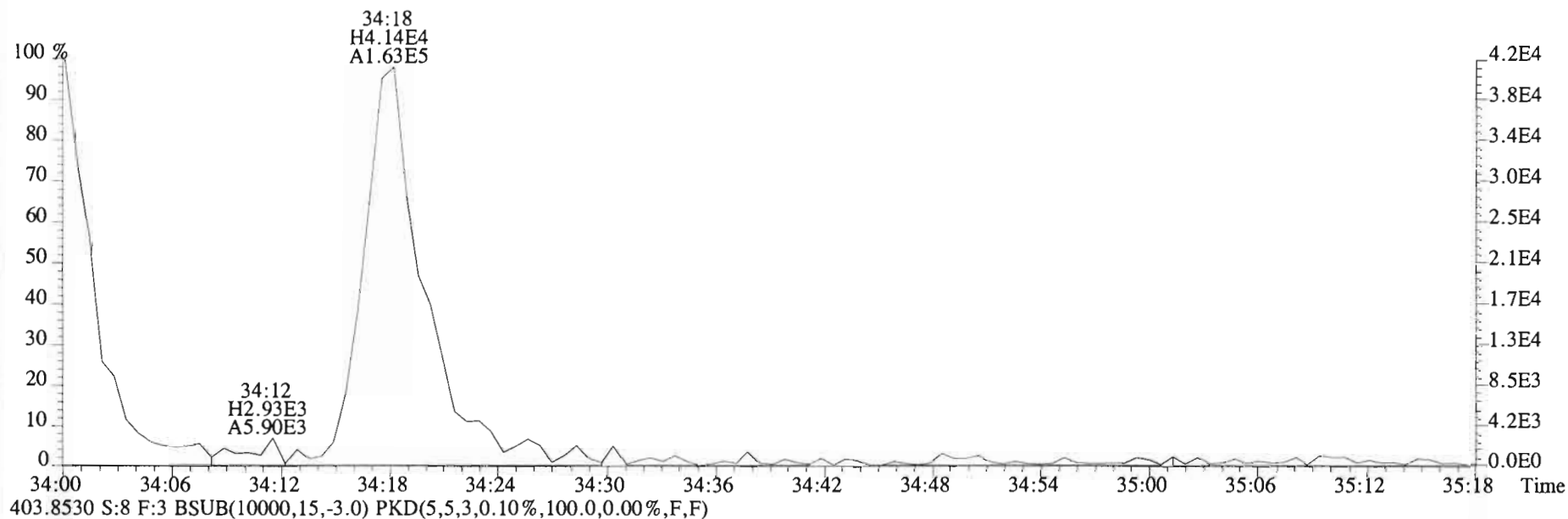
403.8530 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



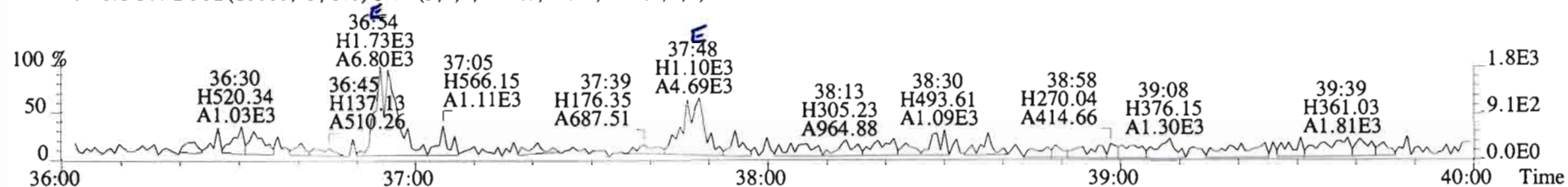
392.9760 S:8 F:3



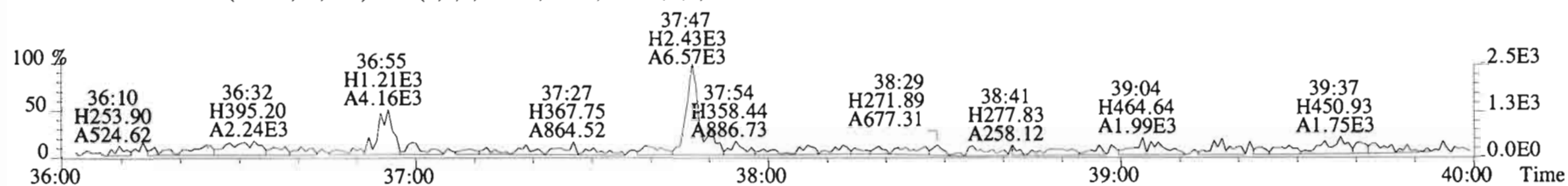
File:191211D2 #1-385 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_Df
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



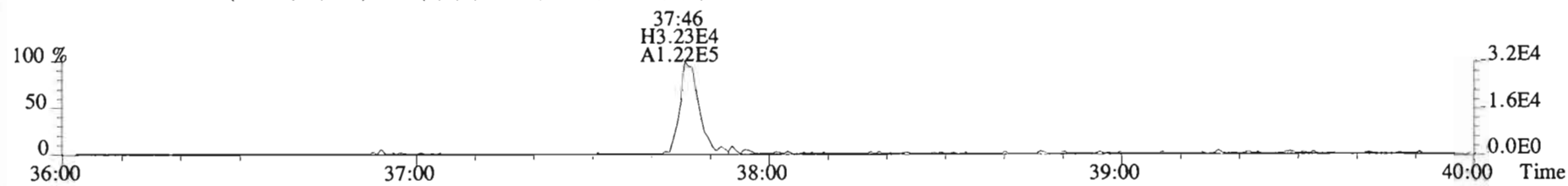
File:191211D2 #1-355 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_DF
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



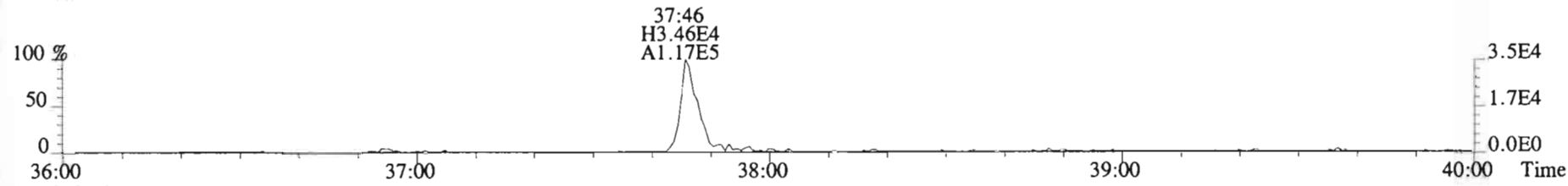
425.7737 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



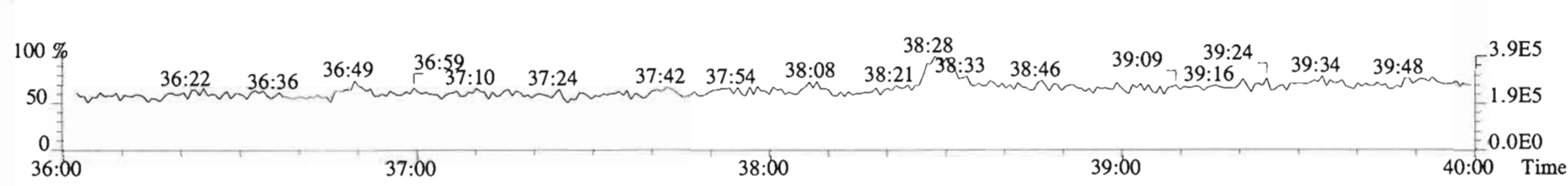
435.8169 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



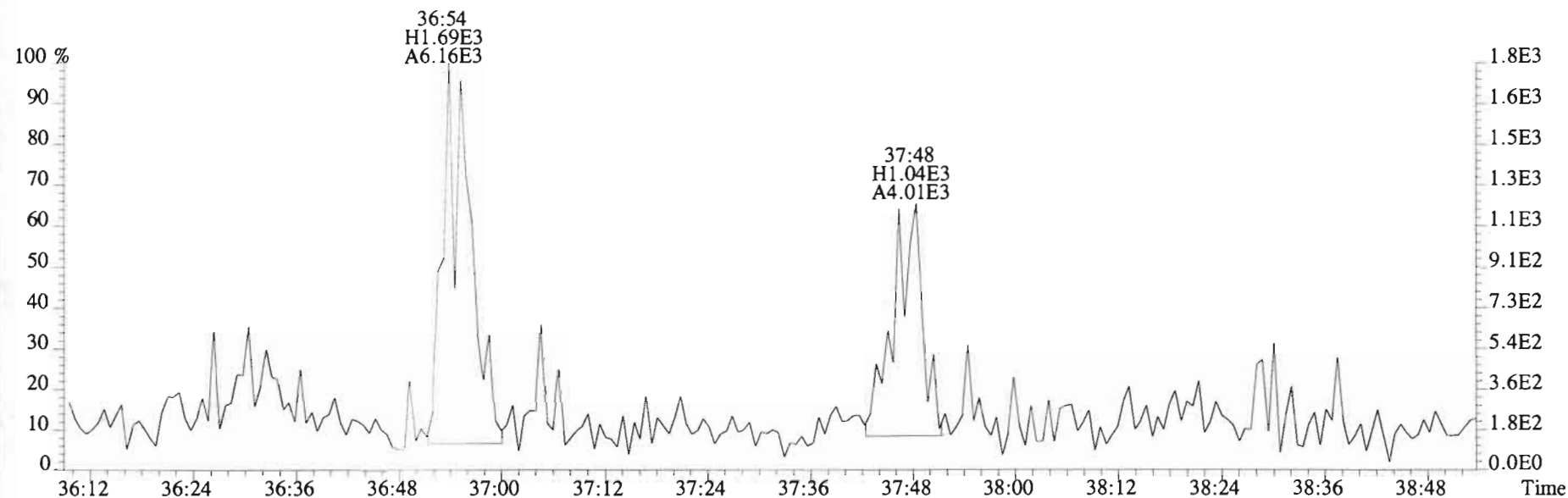
437.8140 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



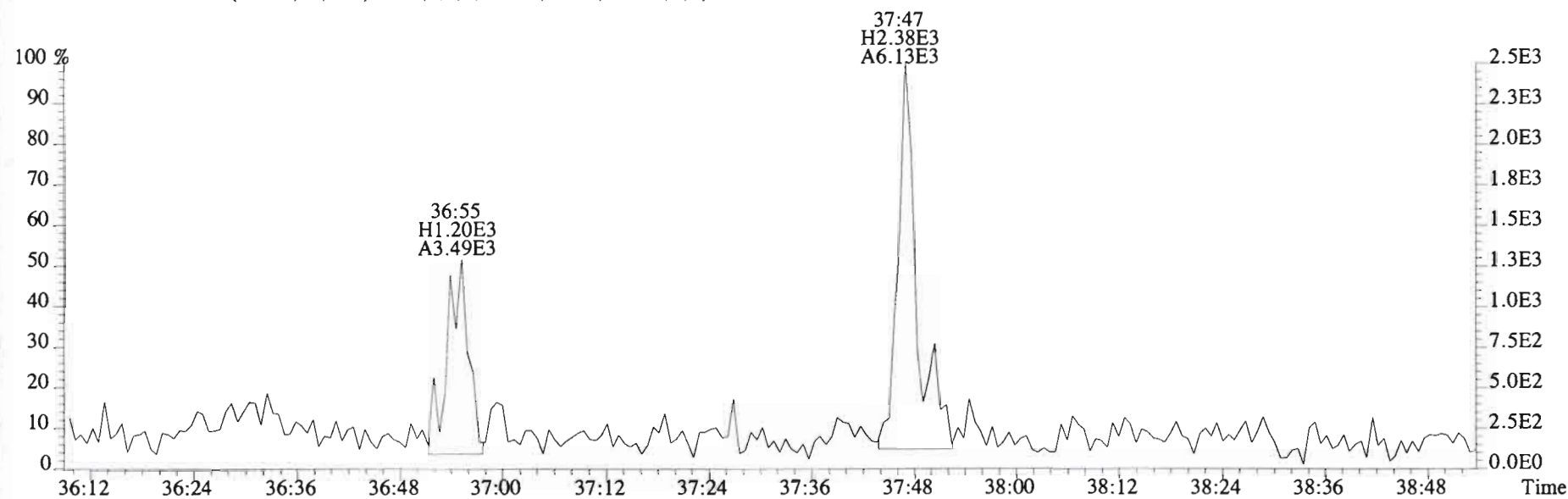
454.9728 S:8 F:4



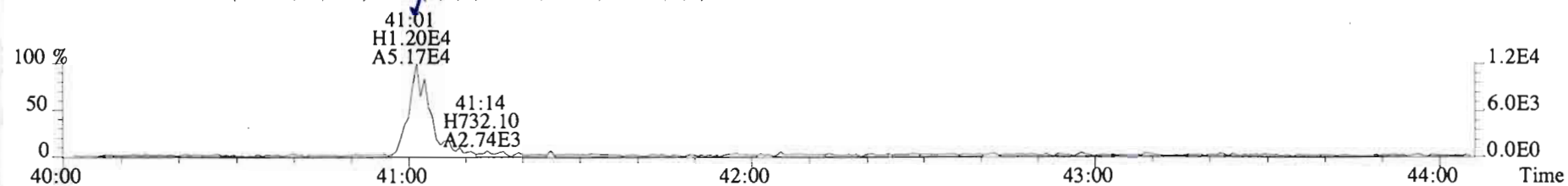
File:191211D2 #1-355 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_Df
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F)



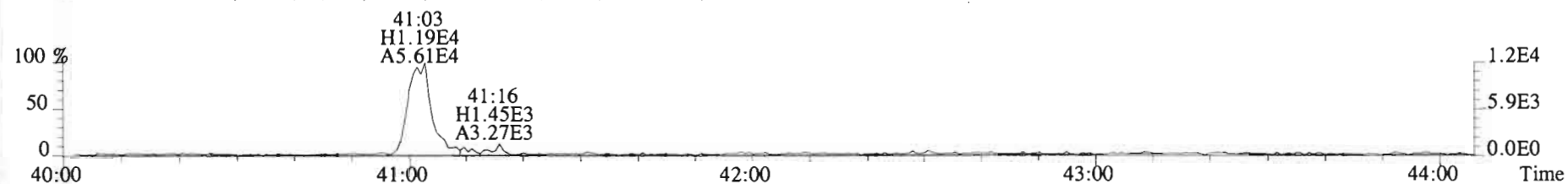
425.7737 S:8 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F)



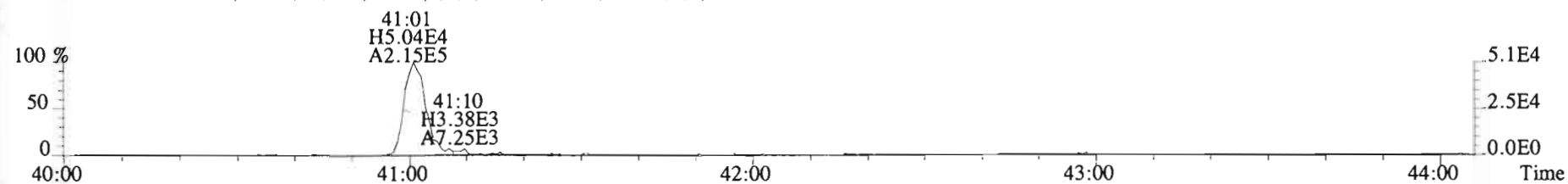
File:191211D2 #1-432 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_DE
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



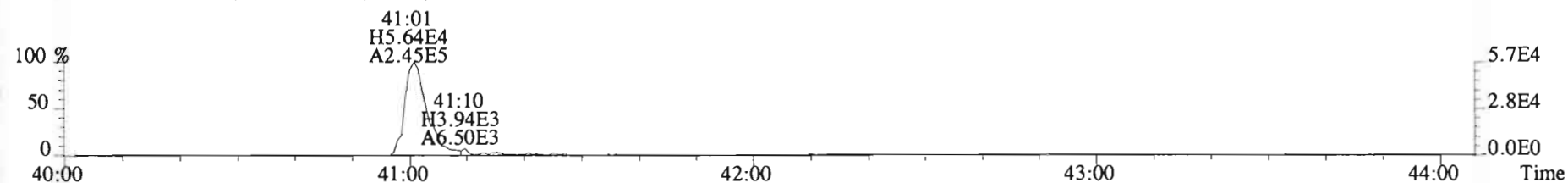
459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



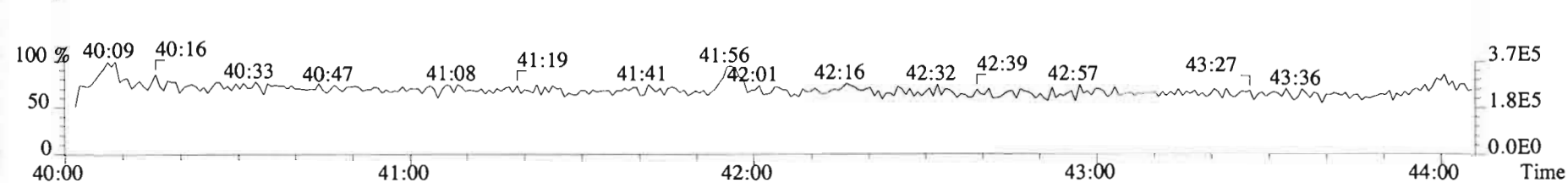
469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



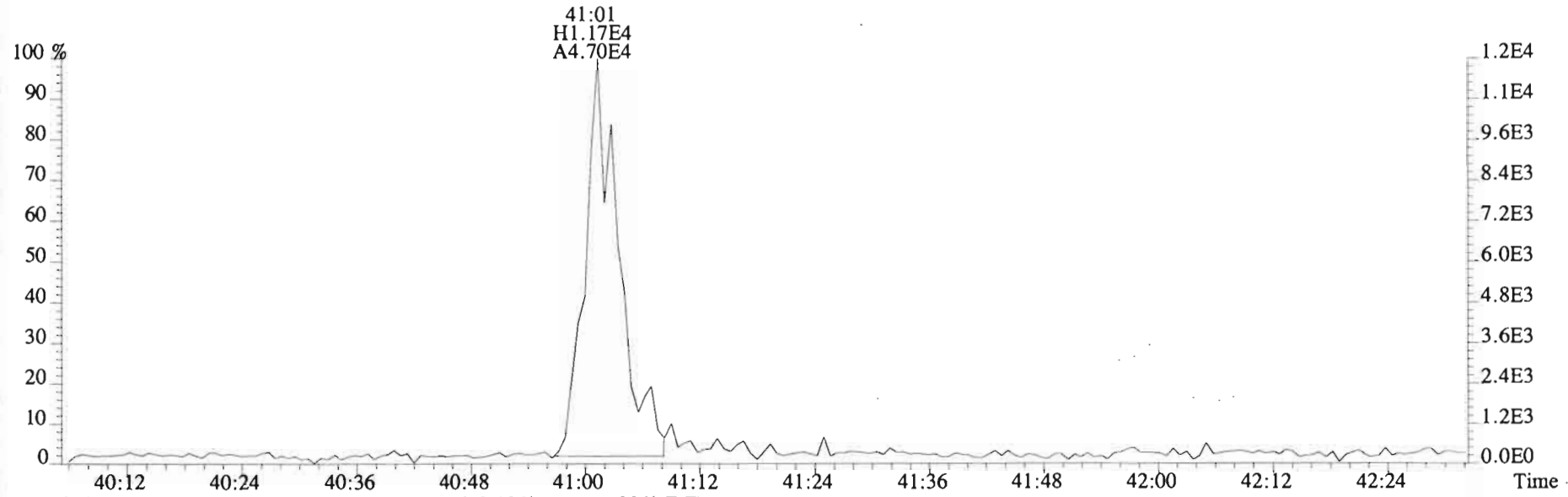
471.7750 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



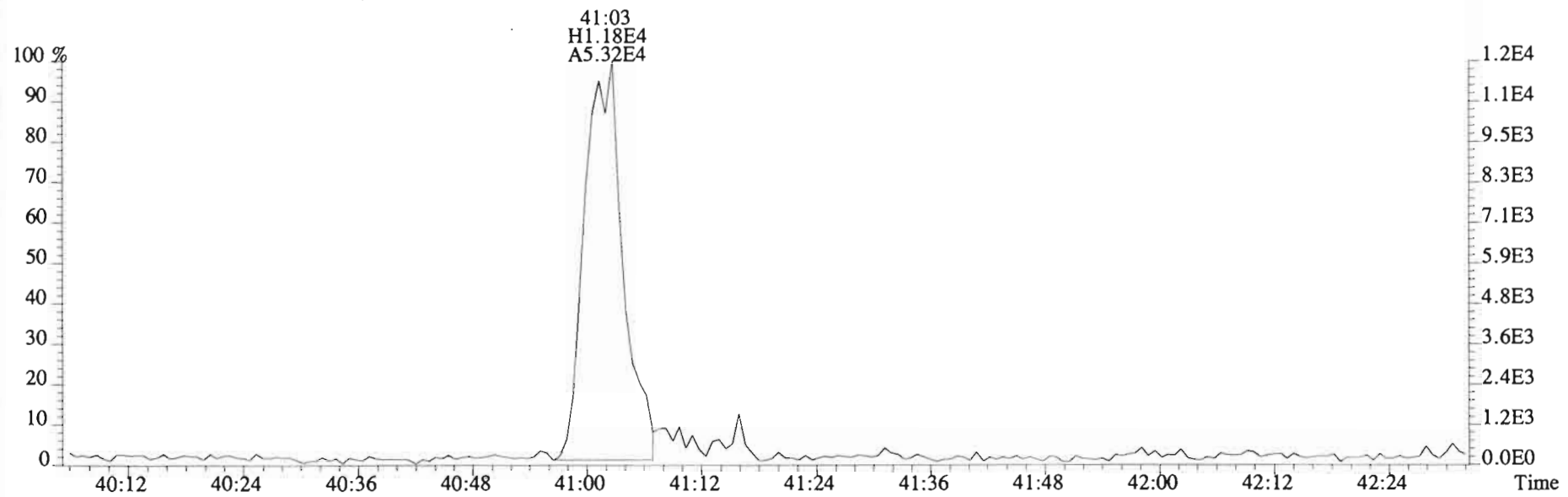
454.9728 S:8 F:5



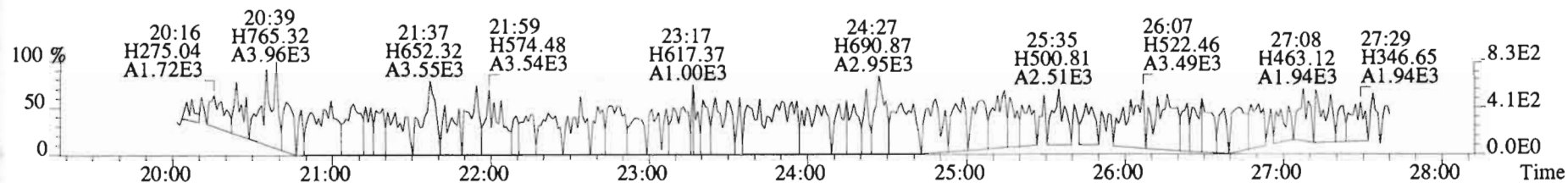
File:191211D2 #1-432 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_Df
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



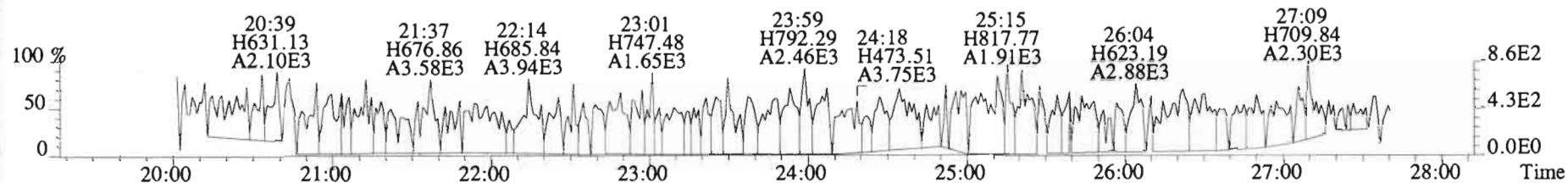
459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



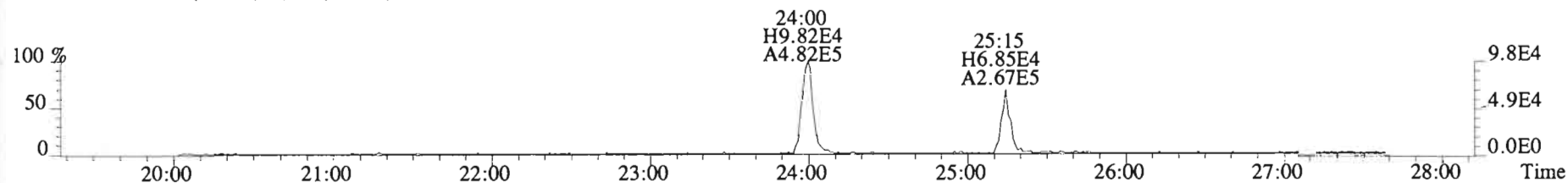
File:191211D2 #1-492 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_Df
 303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



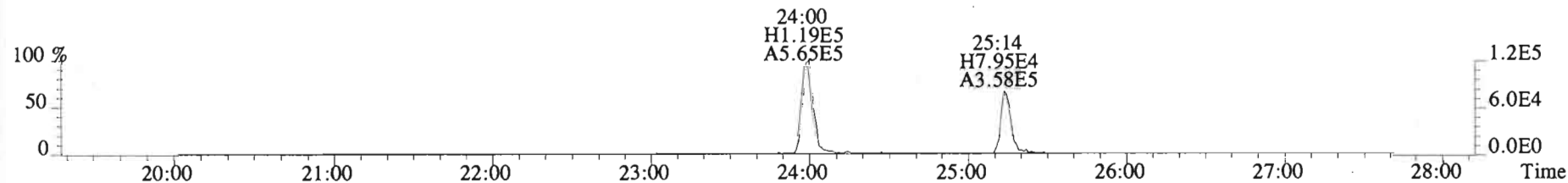
305.8987 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



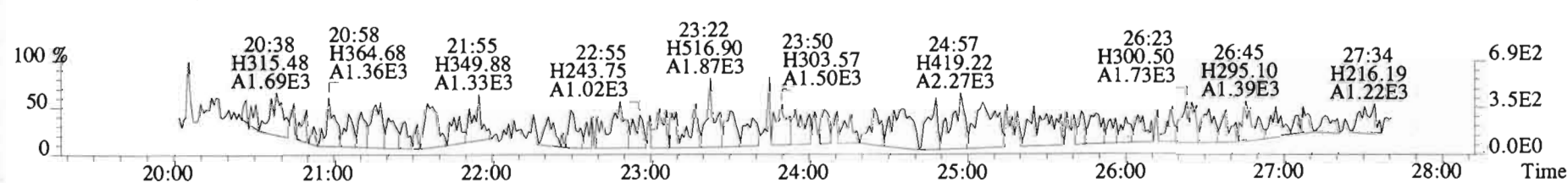
315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



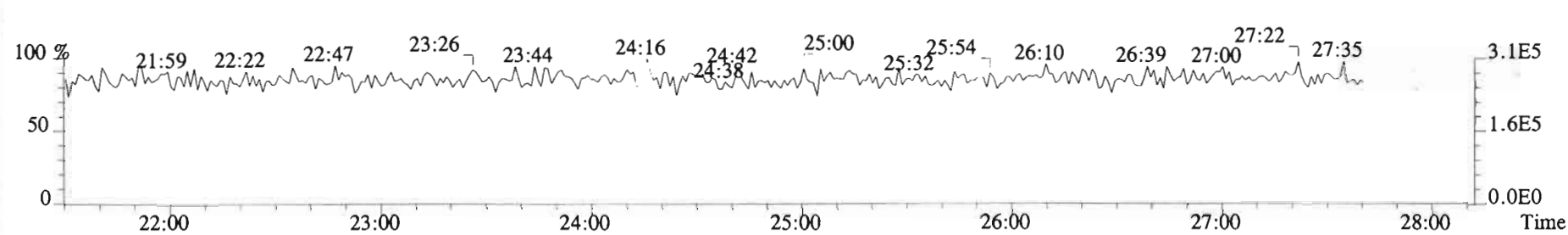
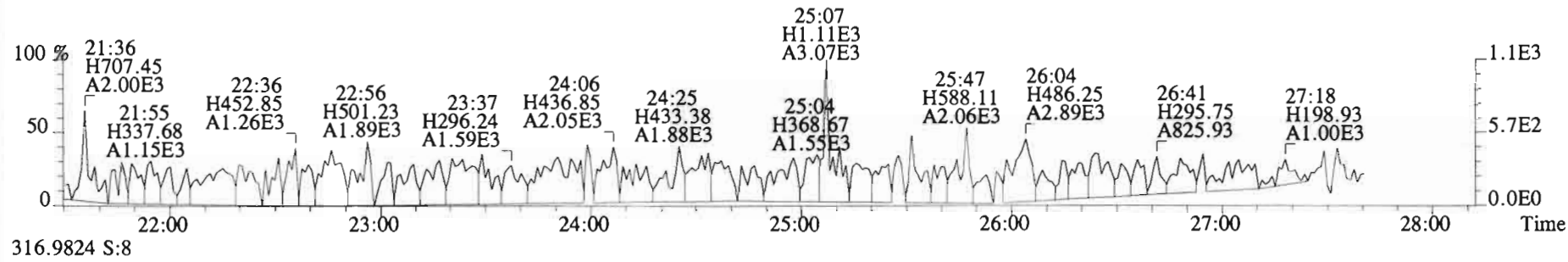
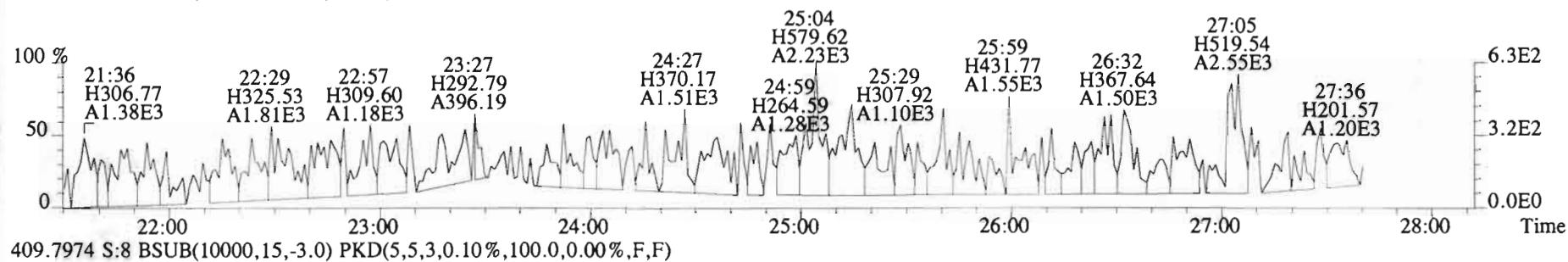
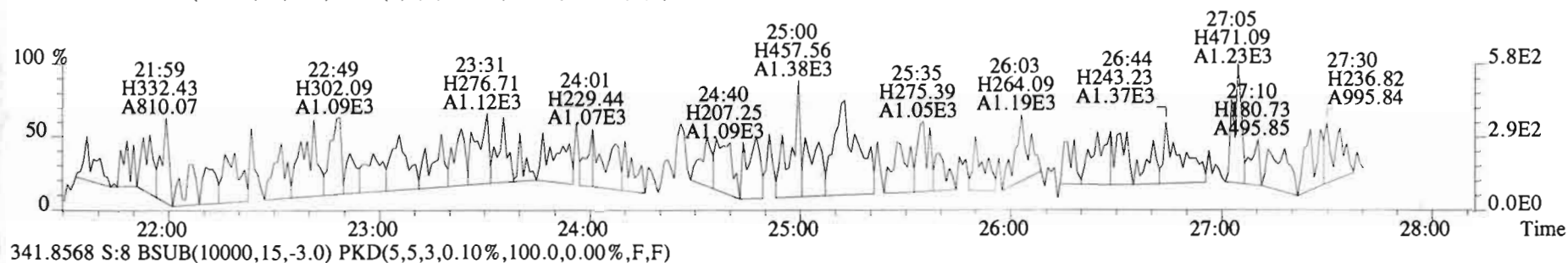
317.9389 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



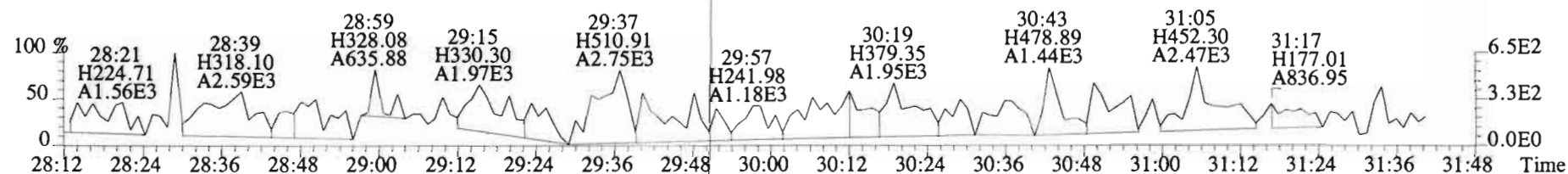
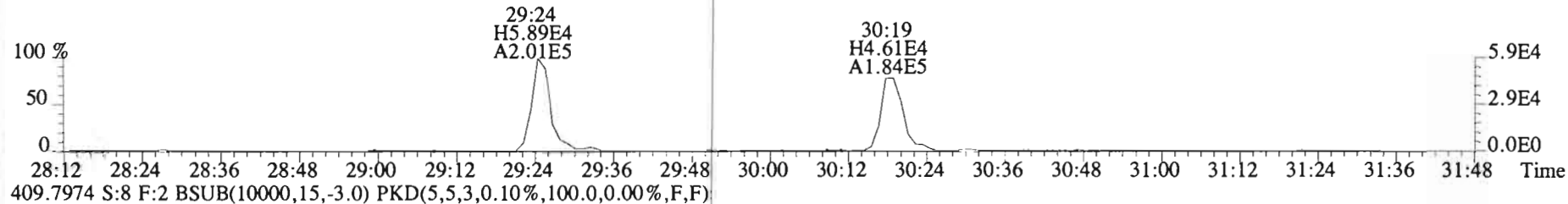
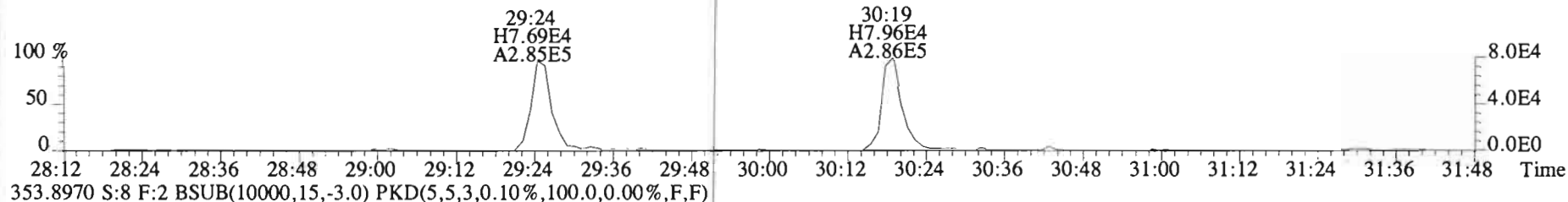
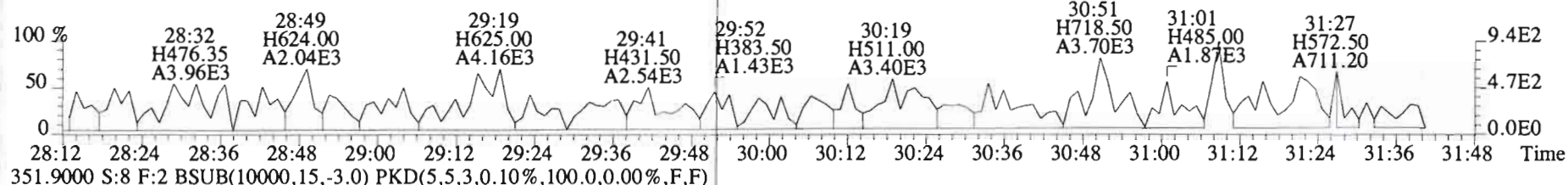
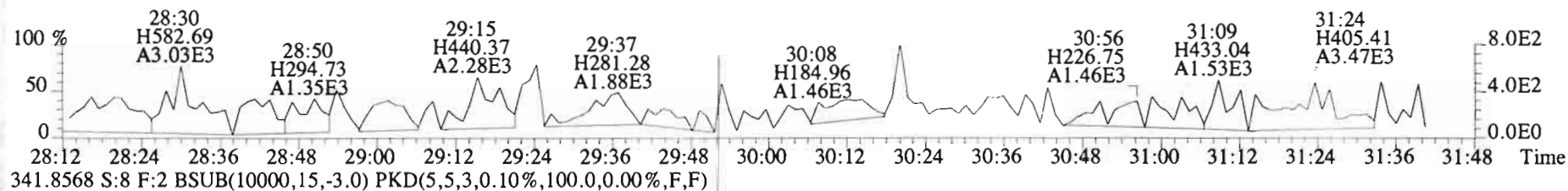
375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



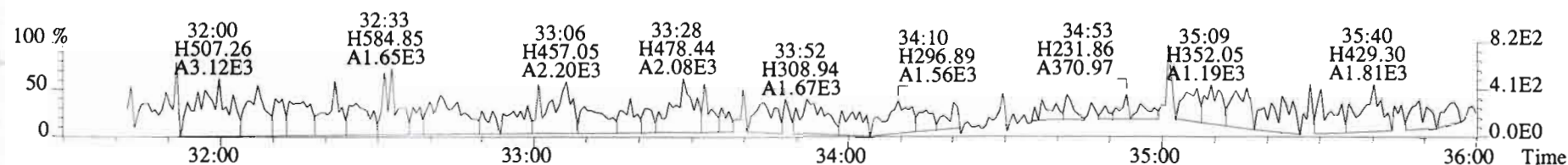
File:191211D2 #1-492 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_Df
 339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



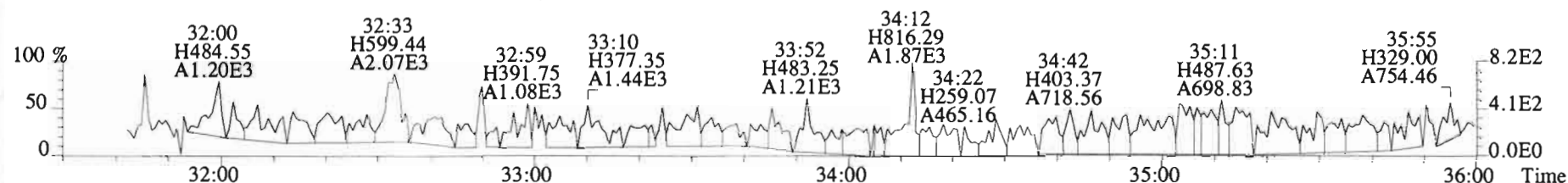
File:191211D2 #1-211 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_Df
 339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



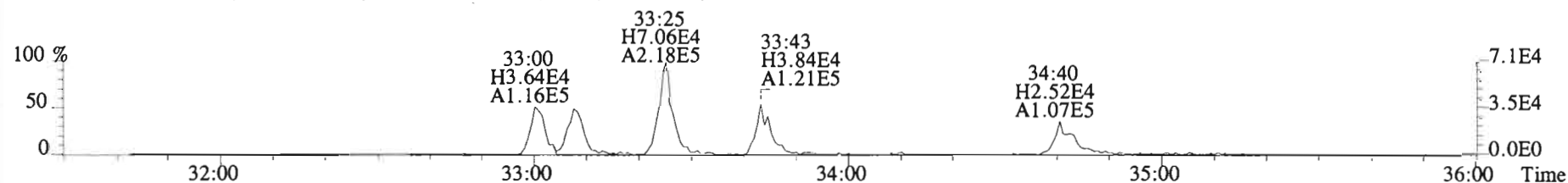
File:191211D2 #1-385 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_Df
 373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



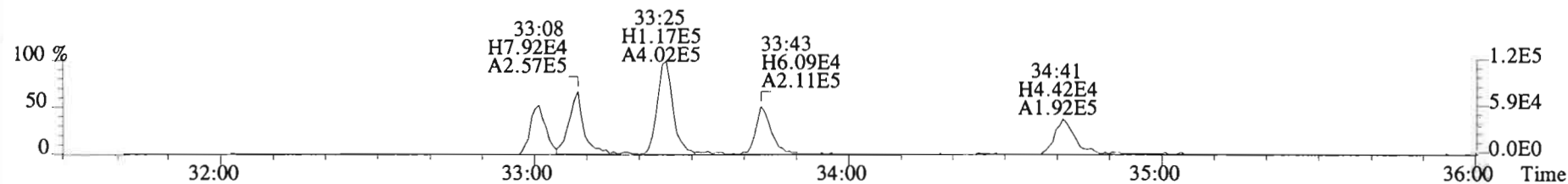
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



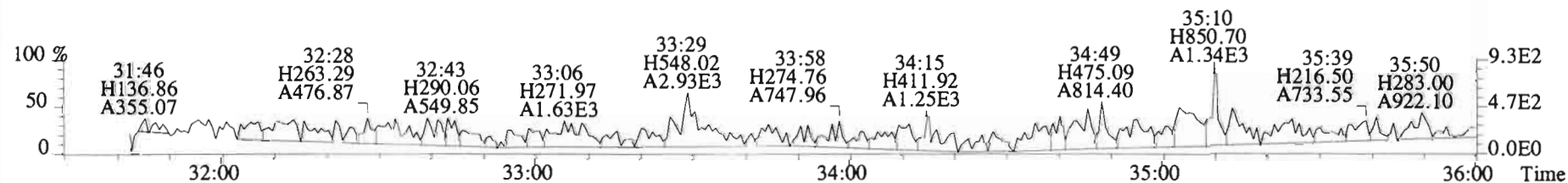
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



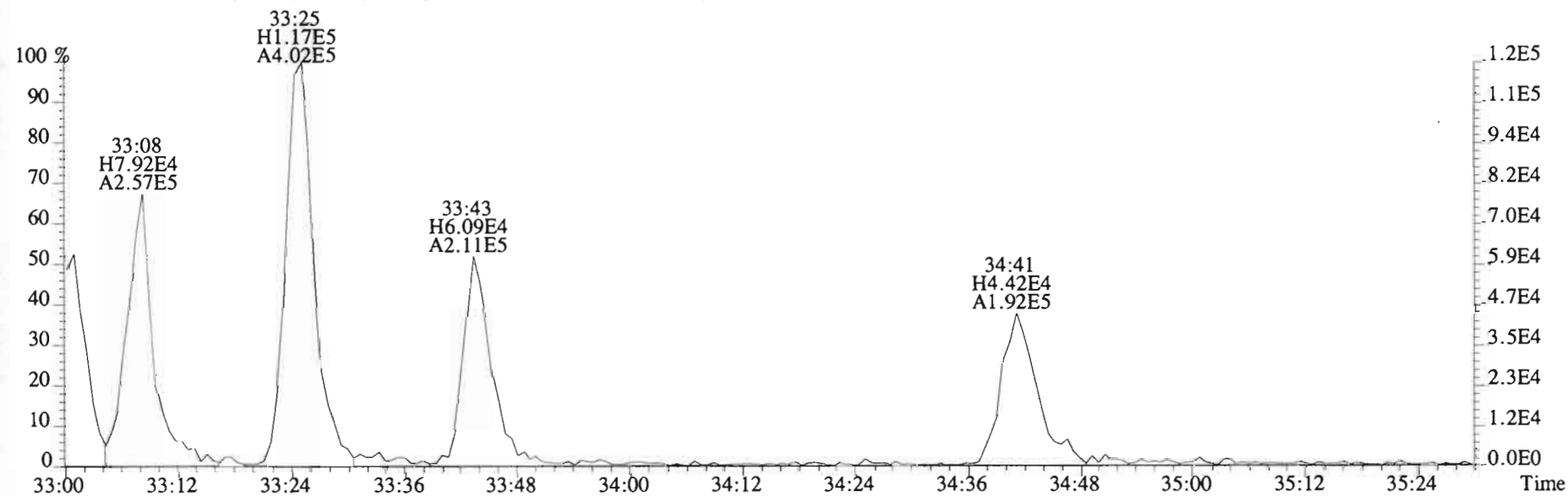
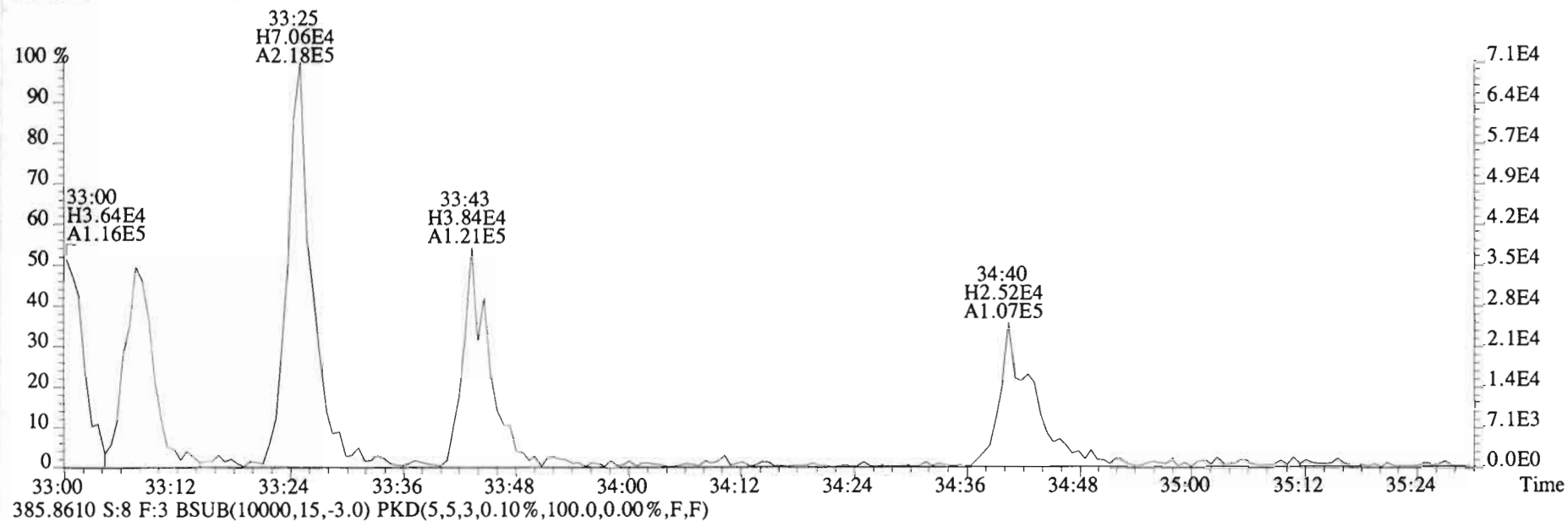
385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



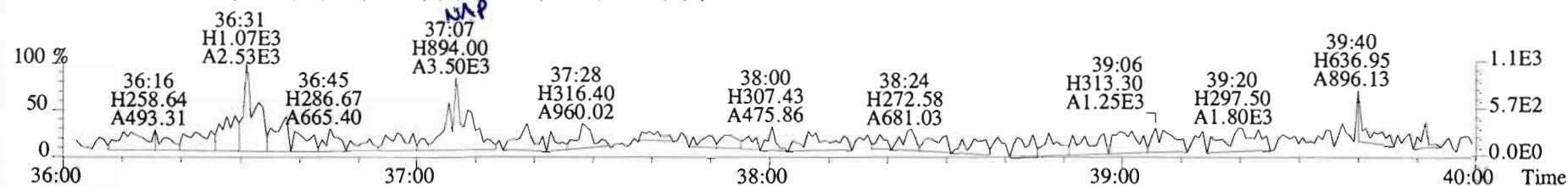
445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



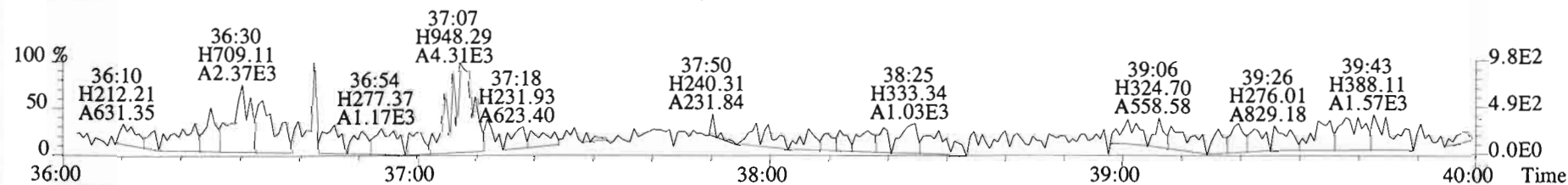
File:191211D2 #1-385 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_Df
383.8639 S:8 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



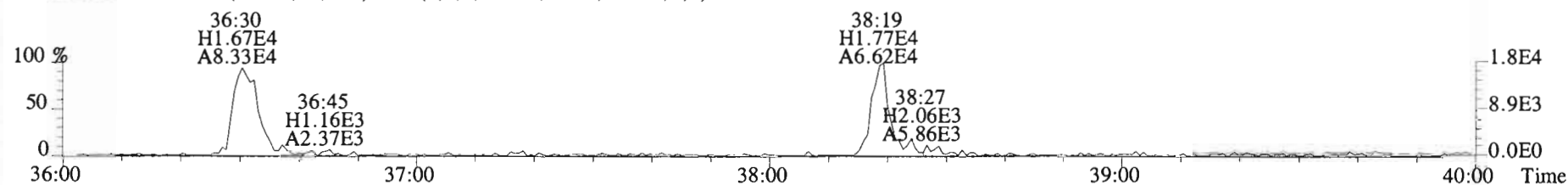
File:191211D2 #1-355 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_De
 407.7818 S:8 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



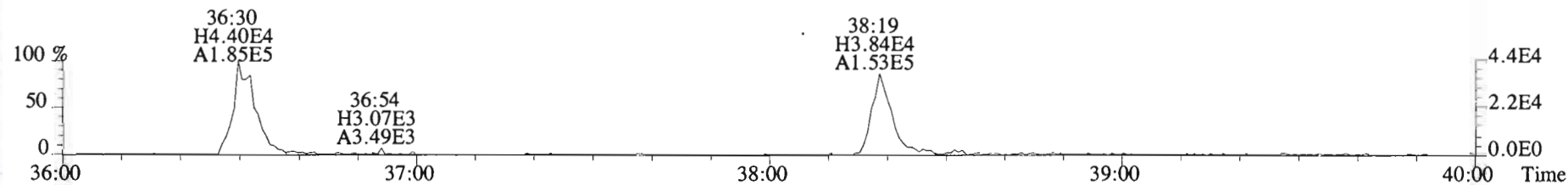
409.7788 S:8 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



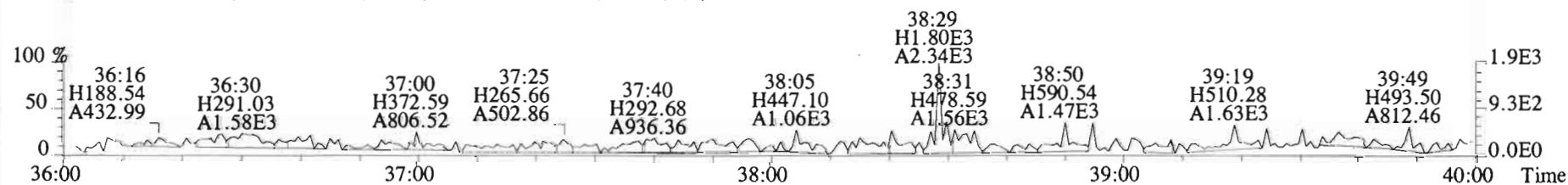
417.8253 S:8 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



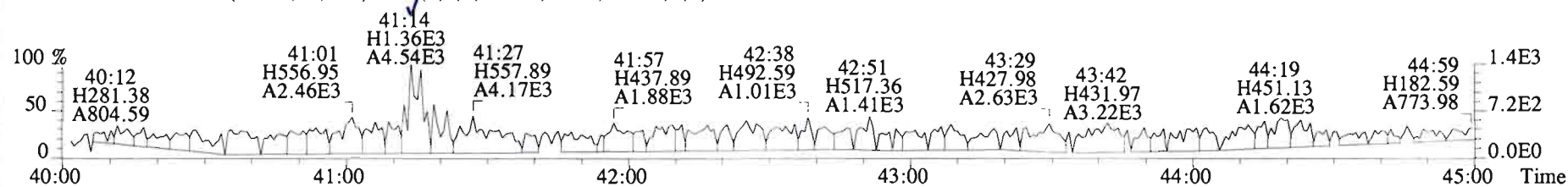
419.8220 S:8 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



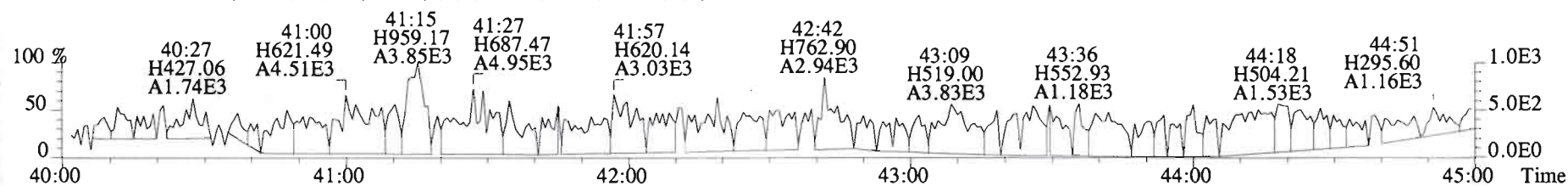
479.7165 S:8 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



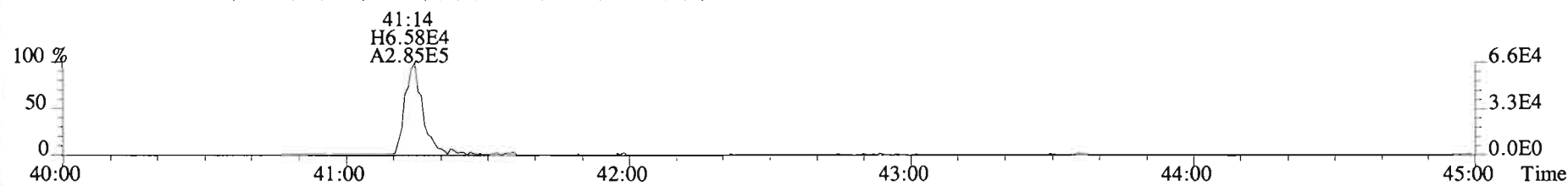
File:191211D2 #1-432 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_Df
 441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



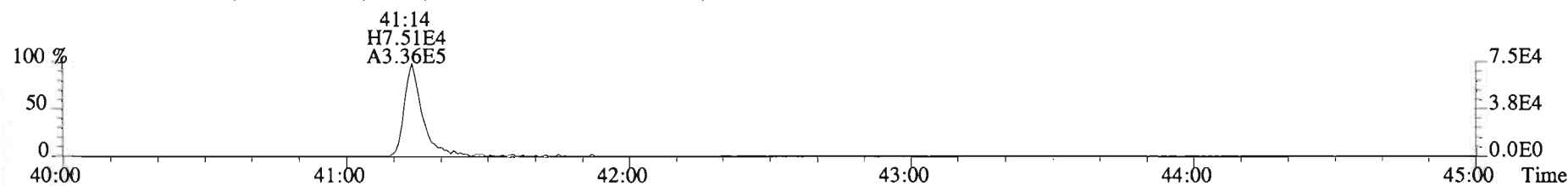
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



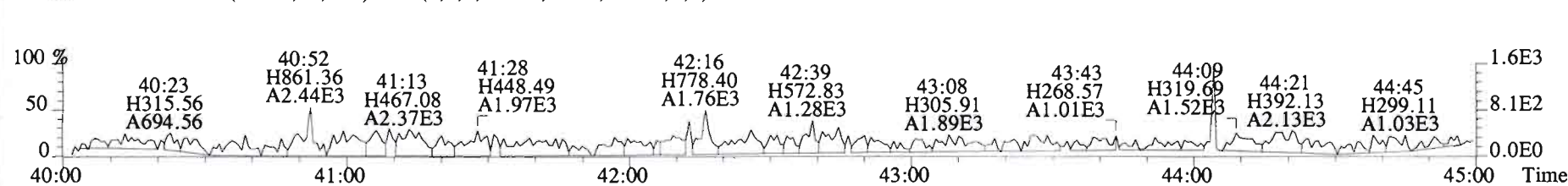
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



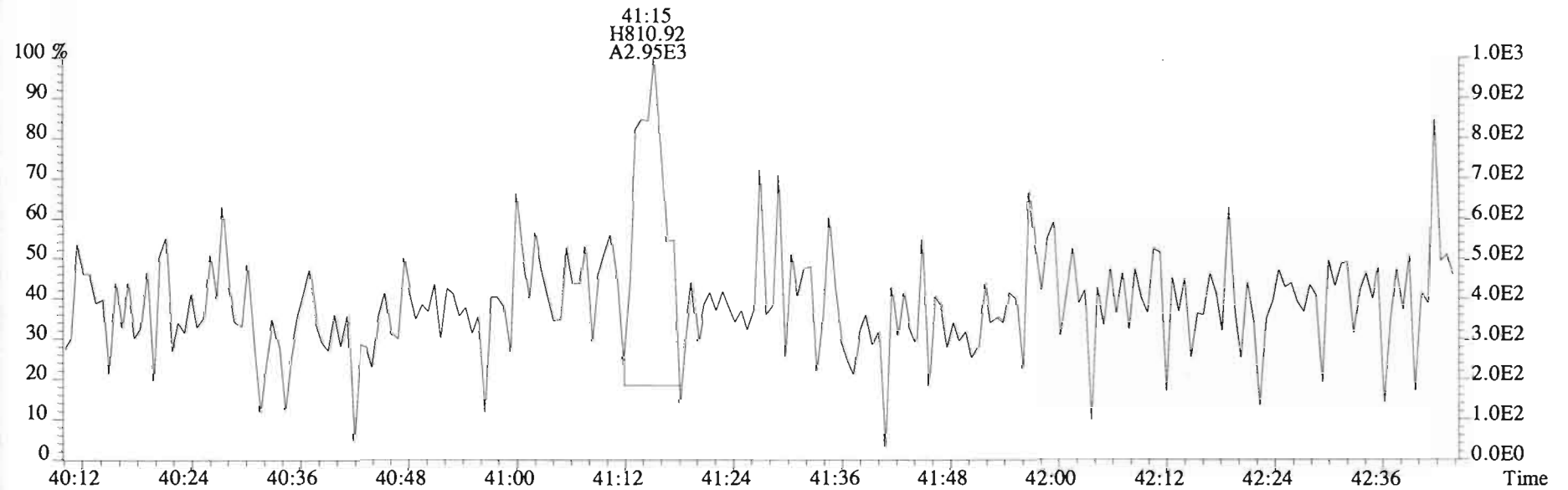
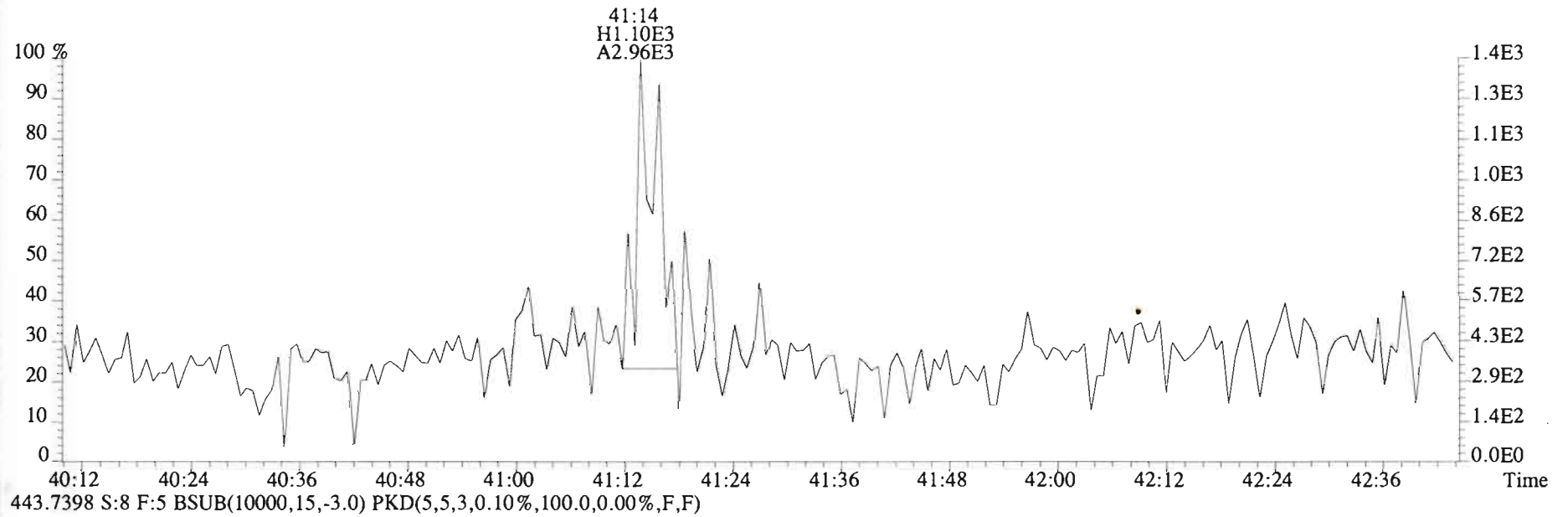
455.7801 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191211D2 #1-432 Acq:12-DEC-2019 05:56:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG7 Text:1904016-08@10X PDI-143RAB-10-20-191111 1:10 10.0162 Exp:OCDD_Df
441.7428 S:8 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\191204D2\191204D2-11.qld
 Last Altered: Thursday, December 19, 2019 11:13:44 Pacific Standard Time
 Printed: Thursday, December 19, 2019 11:16:20 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 12:22:15

Name: 191204D2_11, Date: 5-DEC-2019, Time: 15:33:00, ID: 1904016-09 PDI-143RAB-20-31.1-191111,
 Description: 1904016-09 PDI-143RAB-20-31.1-191111 11.16 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		9.14e4	10.1080	0.905			1.001		26.09					0.263
2	2 1,2,3,7,8-PeCDD		8.15e4	10.1080	0.903			1.001		30.61					0.284
3	3 1,2,3,4,7,8-HxCDD		6.30e4	10.1080	1.101			1.000		33.89					0.461
4	4 1,2,3,6,7,8-HxCDD	2.91e2	7.10e4	10.1080	0.939	0.969	YES	1.000	1.001	33.98	34.01	0.86401		0.768	0.477
5	5 1,2,3,7,8,9-HxCDD		7.09e4	10.1080	0.961			1.001		34.32					0.522
6	6 1,2,3,4,6,7,8-HpCDD	6.02e3	5.55e4	10.1080	0.979	0.945	NO	1.000	1.000	37.77	37.77	21.899		21.9	0.790
7	7 OCDD	4.91e4	1.11e5	10.1080	0.959	0.878	NO	1.000	1.000	41.00	41.01	182.53		183	0.610
8	8 2,3,7,8-TCDF		1.37e5	10.1080	0.950			1.001		25.31					0.381
9	9 1,2,3,7,8-PeCDF	4.77e2	1.41e5	10.1080	0.960	1.366	NO	1.001	1.000	29.43	29.41	0.69747		0.697	0.181
10	10 2,3,4,7,8-PeCDF	3.70e2	1.38e5	10.1080	1.015	1.908	YES	1.001	1.001	30.33	30.32	0.52331		0.459	0.151
11	11 1,2,3,4,7,8-HxCDF	1.21e3	9.23e4	10.1080	1.177	1.180	NO	1.000	1.001	33.00	33.02	2.2110		2.21	0.256
12	12 1,2,3,6,7,8-HxCDF	4.27e2	9.43e4	10.1080	1.069	1.011	YES	1.000	1.000	33.13	33.13	0.83865		0.762	0.289
13	13 2,3,4,6,7,8-HxCDF	2.88e2	7.81e4	10.1080	1.114	1.094	NO	1.001	1.001	33.75	33.74	0.65557		0.656	0.356
14	14 1,2,3,7,8,9-HxCDF		7.48e4	10.1080	1.062			1.000		34.66					0.455
15	15 1,2,3,4,6,7,8-HpCDF	2.08e3	5.97e4	10.1080	1.128	0.970	NO	1.001	1.000	36.54	36.51	6.1012		6.10	0.803
16	16 1,2,3,4,7,8,9-HpCDF		4.88e4	10.1080	1.280			1.000		38.29					0.742
17	17 OCDF	4.00e3	1.30e5	10.1080	0.947	0.918	NO	1.000	1.001	41.22	41.25	12.814		12.8	0.344
18	18 13C-2,3,7,8-TCDD	9.14e4	8.43e4	10.1080	1.095	0.792	NO	1.021	1.022	26.04	26.06	195.71	98.9		0.543
19	19 13C-1,2,3,7,8-PeCDD	8.15e4	8.43e4	10.1080	0.881	0.646	NO	1.187	1.200	30.26	30.58	216.87	109.6		0.463
20	20 13C-1,2,3,4,7,8-Hx...	6.30e4	9.43e4	10.1080	0.642	1.306	NO	1.014	1.014	33.87	33.88	205.68	103.9		1.17
21	21 13C-1,2,3,6,7,8-Hx...	7.10e4	9.43e4	10.1080	0.856	1.258	NO	1.017	1.017	33.98	33.98	174.06	88.0		0.882
22	22 13C-1,2,3,7,8,9-Hx...	7.09e4	9.43e4	10.1080	0.807	1.250	NO	1.026	1.027	34.28	34.29	184.34	93.2		0.935
23	23 13C-1,2,3,4,6,7,8-H...	5.55e4	9.43e4	10.1080	0.654	1.046	NO	1.126	1.130	37.62	37.75	178.03	90.0		1.13
24	24 13C-OCDD	1.11e5	9.43e4	10.1080	0.580	0.905	NO	1.226	1.228	40.95	41.00	401.88	101.6		1.13
25	25 13C-2,3,7,8-TCDF	1.37e5	1.40e5	10.1080	1.035	0.791	NO	0.992	0.991	25.29	25.28	186.95	94.5		0.704
26	26 13C-1,2,3,7,8-PeCDF	1.41e5	1.40e5	10.1080	0.854	1.557	NO	1.154	1.154	29.42	29.41	233.37	117.9		1.07
27	27 13C-2,3,4,7,8-PeCDF	1.38e5	1.40e5	10.1080	0.847	1.612	NO	1.189	1.188	30.32	30.30	230.48	116.5		1.08
28	28 13C-1,2,3,4,7,8-Hx...	9.23e4	9.43e4	10.1080	0.832	0.522	NO	0.987	0.988	32.98	33.00	232.79	117.7		1.36
29	29 13C-1,2,3,6,7,8-Hx...	9.43e4	9.43e4	10.1080	1.034	0.515	NO	0.991	0.992	33.09	33.12	191.11	96.6		1.09
30	30 13C-2,3,4,6,7,8-Hx...	7.81e4	9.43e4	10.1080	0.953	0.514	NO	1.009	1.009	33.71	33.72	171.75	86.8		1.19
31	31 13C-1,2,3,7,8,9-Hx...	7.48e4	9.43e4	10.1080	0.828	0.512	NO	1.039	1.038	34.69	34.66	189.52	95.8		1.37

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-11.qld

Last Altered: Thursday, December 19, 2019 11:13:44 Pacific Standard Time

Printed: Thursday, December 19, 2019 11:16:20 Pacific Standard Time

Name: 191204D2_11, Date: 5-DEC-2019, Time: 15:33:00, ID: 1904016-09 PDI-143RAB-20-31.1-191111,

Description: 1904016-09 PDI-143RAB-20-31.1-191111 11.16 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...	5.97e4	9.43e4	10.1080	0.757	0.434	NO	1.093	1.093	36.50	36.50	165.36	83.6		1.34
33	33 13C-1,2,3,4,7,8,9-H...	4.88e4	9.43e4	10.1080	0.581	0.432	NO	1.143	1.146	38.18	38.29	176.05	89.0		1.74
34	34 13C-OCDF	1.30e5	9.43e4	10.1080	0.689	0.890	NO	1.233	1.234	41.19	41.22	396.54	100.2		0.896
35	35 37Cl-2,3,7,8-TCDD	3.82e4	8.43e4	10.1080	1.198			1.022	1.023	26.06	26.07	74.807	94.5		0.275
36	36 13C-1,2,3,4-TCDD	8.43e4	8.43e4	10.1080	1.000	0.785	NO	1.000	1.000	25.50	25.50	197.86	100.0		0.595
37	37 13C-1,2,3,4-TCDF	1.40e5	1.40e5	10.1080	1.000	0.814	NO	1.000	1.000	24.06	24.05	197.86	100.0		0.729
38	38 13C-1,2,3,4,6,9-Hx...	9.43e4	9.43e4	10.1080	1.000	0.511	NO	1.000	1.000	33.42	33.40	197.86	100.0		1.13
39	39 Total Tetra-Dioxins		9.14e4	10.1080	0.901			0.000		25.50					0.142
40	40 Total Penta-Dioxins		8.15e4	10.1080	0.872			0.000		30.00		0.00000		0.386	0.139
41	41 Total Hexa-Dioxins		0.00e0	10.1080	0.976			0.000		33.80		5.7360		6.50	0.497
42	42 Total Hepta-Dioxins		5.55e4	10.1080	0.989			0.000		37.75		54.692		54.7	0.783
43	43 Total Tetra-Furans		1.37e5	10.1080	0.943			0.000		24.00					0.201
44	44 1st Func. Penta-Fur...		0.00e0	10.1080	0.940			0.000		27.63		3.1314		3.13	0.0982
45	45 Total Penta-Furans		0.00e0	10.1080	0.940			0.000		30.00		3.0429		6.64	0.174
46	46 Total Hexa-Furans		0.00e0	10.1080	1.078			0.000		33.00		9.3049		11.3	0.342
47	47 Total Hepta-Furans		0.00e0	10.1080	1.135			0.000		37.75		6.1012		11.9	0.816

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-11.qld

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

Calibration: 06 Dec 2019 12:22:15

Name: 191204D2_11, Date: 5-DEC-2019, Time: 15:33:00, ID: 1904016-09 PDI-143RAB-20-31.1-191111,

Description: 1904016-09 PDI-143RAB-20-31.1-191111 11.16 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	YES	28.54	69.301	31964.318	0.000	MM	0.0000	0.39

Hexa-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	4 1,2,3,6,7,8-HxCDD	YES	34.01	143.182	39556.500	0.000	MM	0.0000	0.77
2	41 Total Hexa-Dioxins	NO	33.19	502.332	38204.193	26.431	MM	2.6795	2.68
3	41 Total Hexa-Dioxins	NO	32.93	158.137	38204.193	7.984	MM	0.8093	0.81
4	41 Total Hexa-Dioxins	NO	32.38	437.546	38204.193	22.168	bb	2.2472	2.25

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	2923.900	28381.879	216.801	bb	21.8995	21.90
2	42 Total Hepta-Dioxins	NO	36.90	4497.148	28381.879	327.725	bb	32.7928	32.79

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	27.07	1295.430	85398.317	29.740	bb	3.1314	3.13

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-11.qld

Last Altered: Thursday, December 19, 2019 11:13:44 Pacific Standard Time

Printed: Thursday, December 19, 2019 11:16:20 Pacific Standard Time

Name: 191204D2_11, Date: 5-DEC-2019, Time: 15:33:00, ID: 1904016-09 PDI-143RAB-20-31.1-191111,
 Description: 1904016-09 PDI-143RAB-20-31.1-191111 11.16 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	30.23	115.163	85398.317	2.870	bd	0.3022	0.30
2	45 Total Penta-Furans	NO	29.66	240.435	85398.317	5.549	bb	0.5842	0.58
3	9 1,2,3,7,8-PeCDF	NO	29.41	275.130	85707.766	6.771	bb	0.6975	0.70
4	45 Total Penta-Furans	NO	29.24	110.971	85398.317	2.626	bb	0.2765	0.28
5	45 Total Penta-Furans	NO	29.03	330.726	85398.317	0.000	MM	0.0000	0.82
6	45 Total Penta-Furans	YES	28.52	1006.995	85398.317	0.000	MM	0.0000	2.07
7	45 Total Penta-Furans	NO	28.39	348.978	85398.317	8.328	bd	0.8769	0.88
8	10 2,3,4,7,8-PeCDF	YES	30.32	242.786	85088.867	0.000	MM	0.0000	0.46
9	45 Total Penta-Furans	NO	30.34	125.734	85398.317	2.903	MM	0.3057	0.31
10	45 Total Penta-Furans	YES	28.58	97.655	85398.317	0.000	MM	0.0000	0.24

Hexa-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	46 Total Hexa-Furans	NO	32.54	551.670	28892.887	23.668	MM	2.1729	2.17
2	46 Total Hexa-Furans	NO	32.00	1035.698	28892.887	46.460	MM	4.2654	4.27
3	46 Total Hexa-Furans	YES	31.84	220.968	28892.887	0.000	MM	0.0000	0.86
4	13 2,3,4,6,7,8-HxCDF	NO	33.74	150.489	26503.656	7.379	MM	0.6556	0.66
5	12 1,2,3,6,7,8-HxCDF	YES	33.13	214.680	32056.117	0.000	MM	0.0000	0.76
6	11 1,2,3,4,7,8-HxCDF	NO	33.02	657.225	31681.113	26.300	dd	2.2110	2.21
7	46 Total Hexa-Furans	YES	32.92	85.722	28892.887	0.000	bd	0.0000	0.34

Hepta-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	47 Total Hepta-Furans	YES	37.12	926.233	16403.161	0.000	MM	0.0000	5.84
2	15 1,2,3,4,6,7,8-HpCDF	NO	36.51	1022.514	18088.082	69.540	MM	6.1012	6.10

Vista Analytical Laboratory

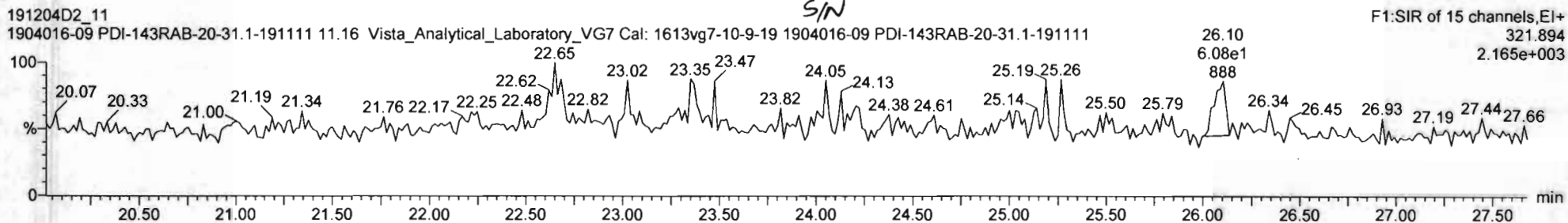
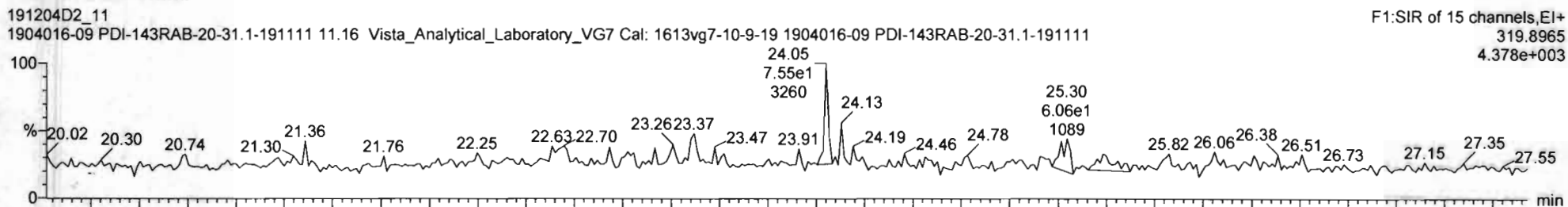
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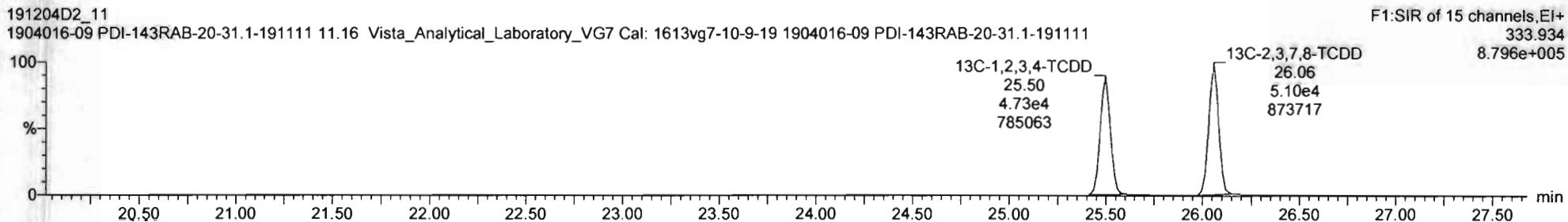
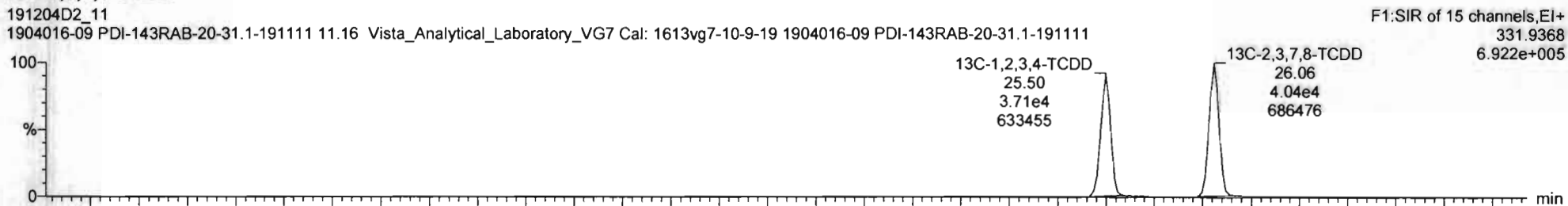
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Description: 1904016-09 PDI-143RAB-20-31.1-191111 11.16 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Tetra-Dioxins



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



Vista Analytical Laboratory

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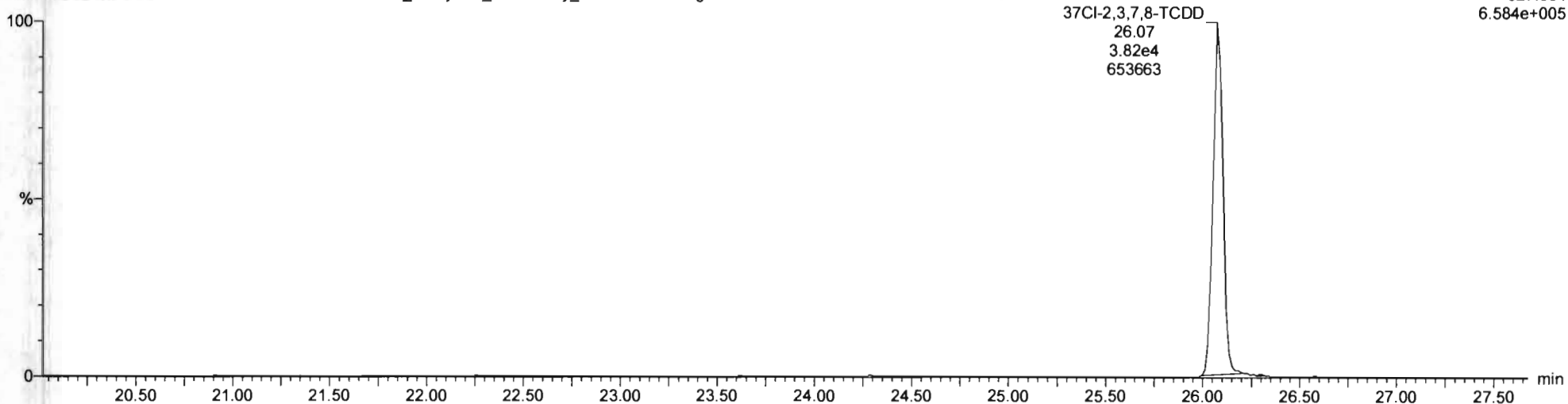
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37Cl-2,3,7,8-TCDD

191204D2_11

1904016-09 PDI-143RAB-20-31.1-191111 11.16 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-09 PDI-143RAB-20-31.1-191111

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6.584e+005

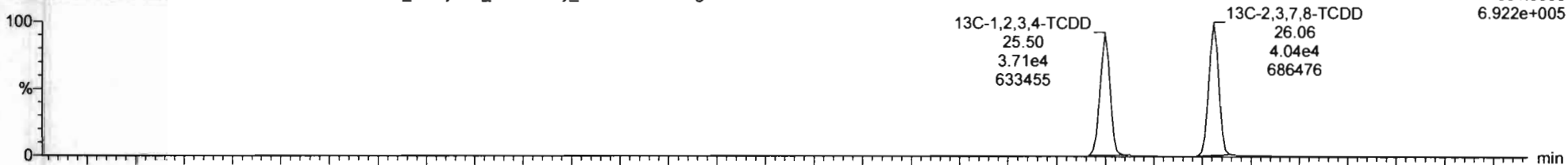


13C-1,2,3,4-TCDD

191204D2_11

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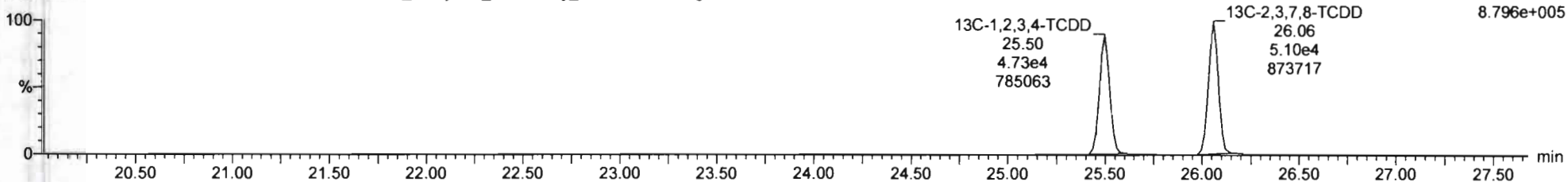
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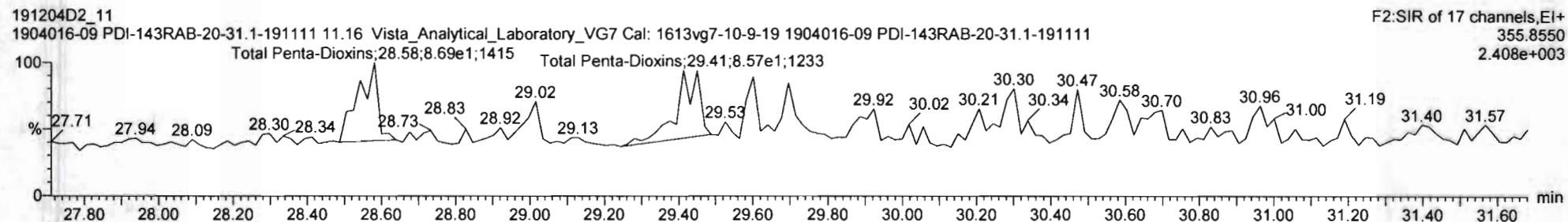
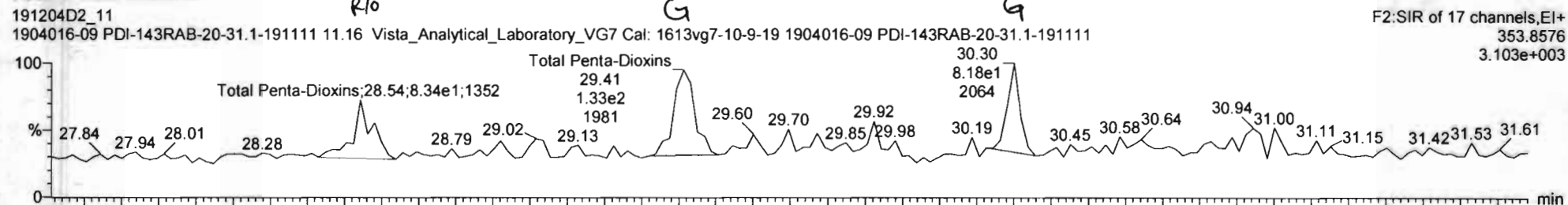
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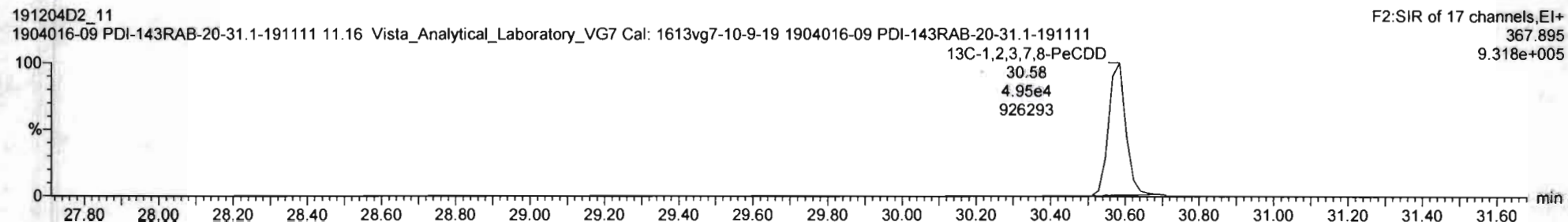
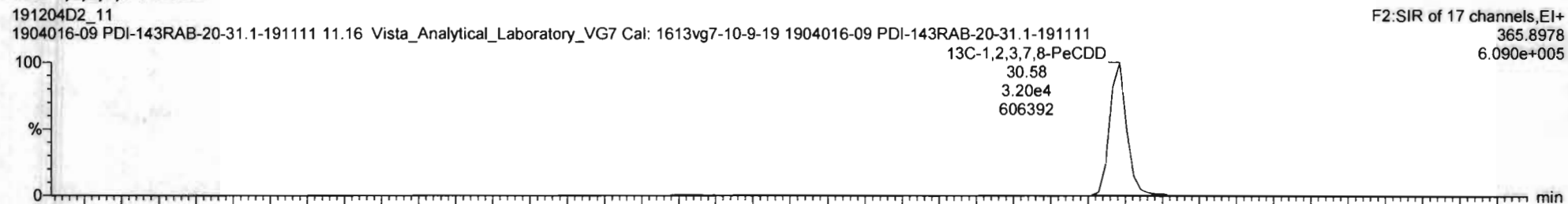


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 Description: 1904016-09 PDI-143RAB-20-31.1-191111 11.16 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Penta-Dioxins



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

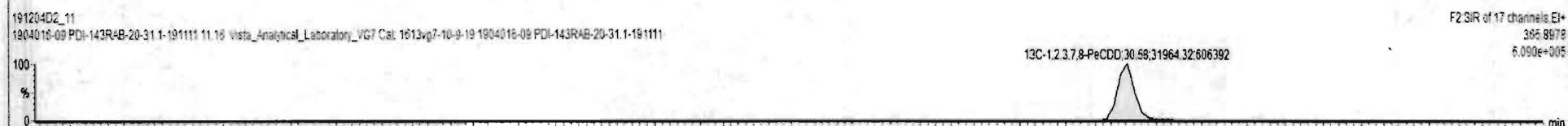
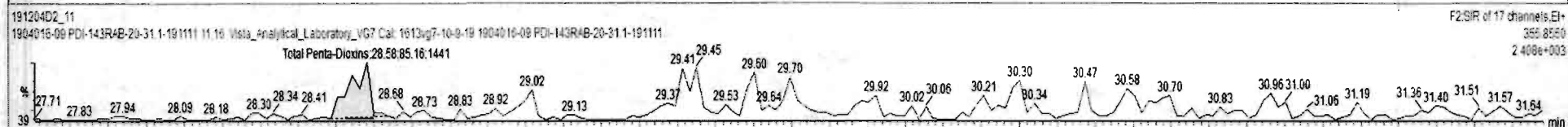
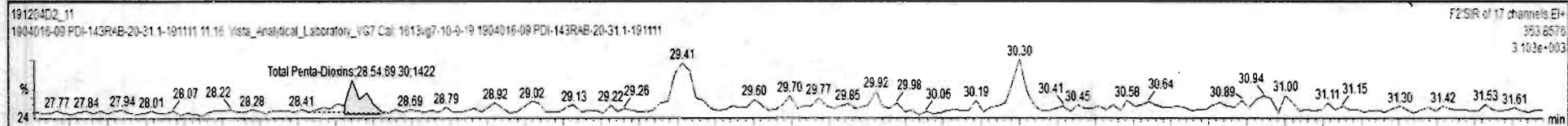




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#	Name	Resp	IS Resp	ES	RA	n/y	RPF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	9.43e4	9.43e4	36	0.51	NO	1.000	10.106	33.42	33.40	1.000	1.000	NO	197.9	100	1.13	
39	Total Tetra-Dioxins		9.14e4				0.901	10.106	25.50			0.000	NO			0.142	
40	Total Penta-Dioxins		8.15e4				0.872	10.106	30.00			0.000	NO	0.0000		0.139	0.3865
41	Total Hexa-Dioxins		0.00e0				0.978	10.106	33.60			0.000	NO	2.788		0.497	4.171
42	Total Hepta-Dioxins		5.55e4				0.889	10.106	37.75			0.000	NO	54.69		0.783	54.69
43	Total Tetra-Furans		1.37e5				0.943	10.106	24.00			0.000	NO	1.861		0.384	2.685
44	1st Func. Penta-Furans		0.00e0				0.940	10.106	27.63			0.000	NO			0.0512	
45	Total Penta-Furans		0.00e0				0.940	10.106	30.00			0.000	NO	2.490		0.174	6.552
46	Total Hexa-Furans		0.00e0				1.078	10.106	33.00			0.000	NO	9.806		0.342	10.58
47	Total Hepta-Furans		0.00e0				1.135	10.106	37.75			0.000	NO	13.42		0.616	13.42
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																
53	DPE1																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	30.00	28.54	6.930e1	8.516e1	0.630	0.81	YES	0.36648	0.60000



Vista Analytical Laboratory

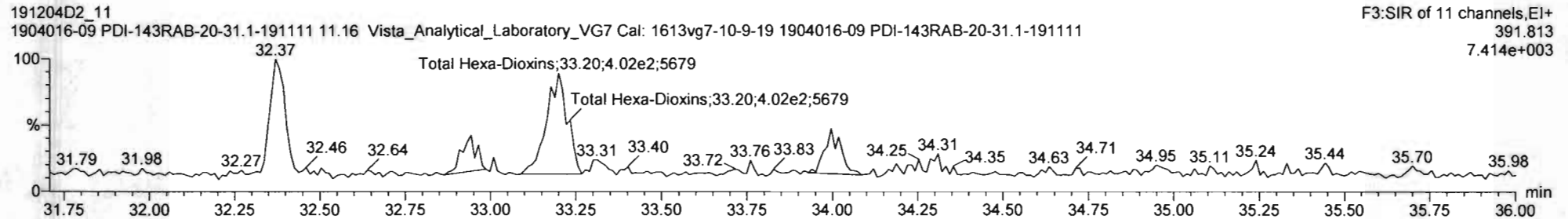
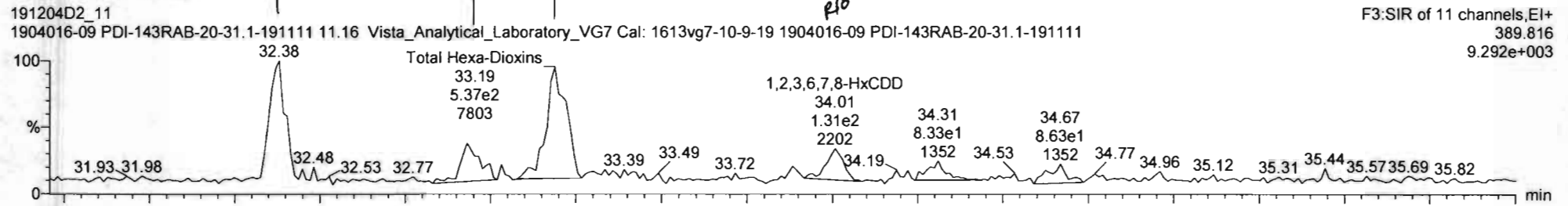
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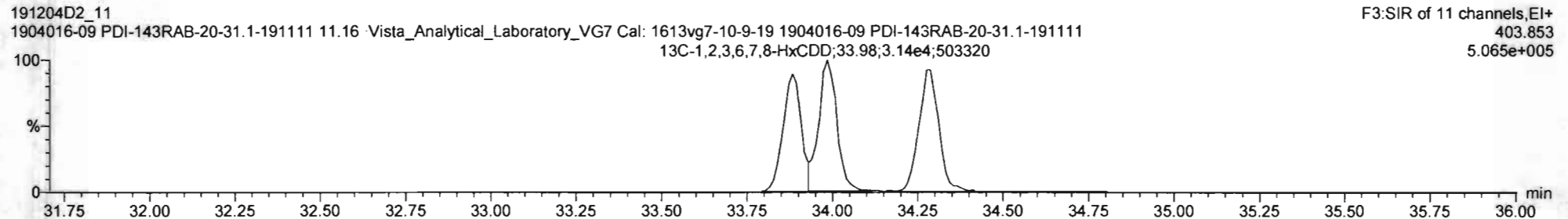
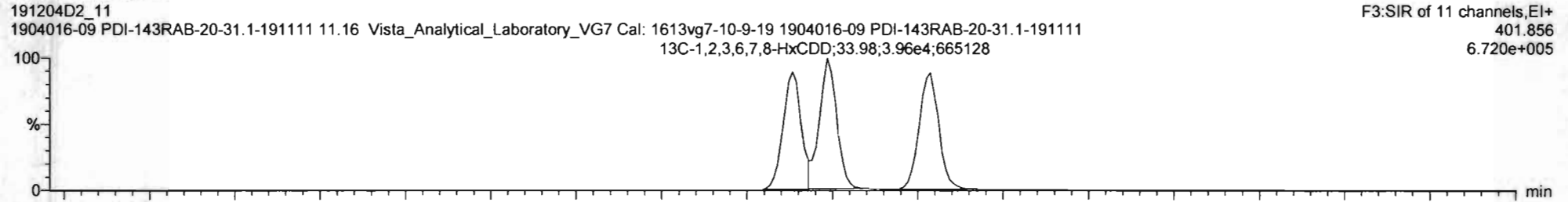
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Total Hexa-Dioxins



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

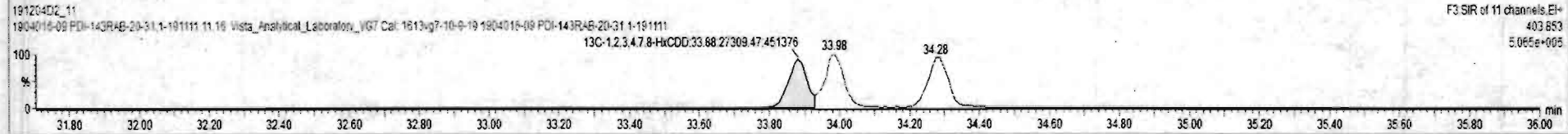
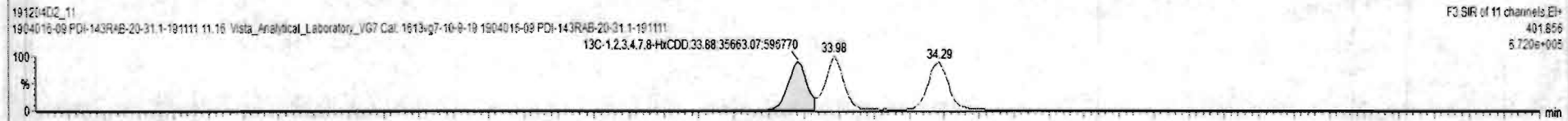
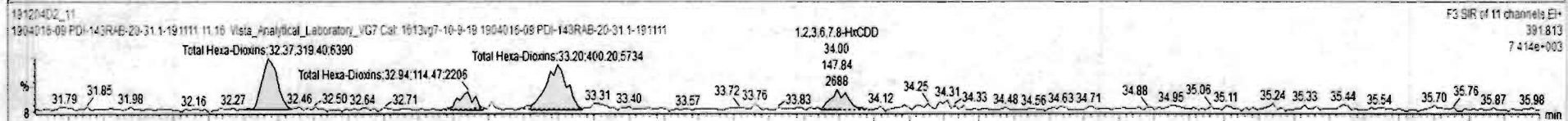
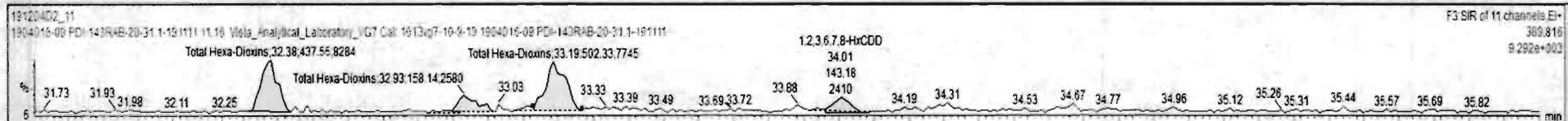




191204D2_11 - 1904016-09 PDI-143RAB-20-31 1-191111 - 1904016-09 PDI-143RAB-20-31 1-191111 11 16 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	8.43e4	8.43e4	36	0.78	NO	1.000	10.108	25.50	25.50	1.000	1.000	NO	197.9	100	0.596	
37	13C-1,2,3,4-TCDF	1.40e5	1.40e5	37	0.81	NO	1.000	10.108	24.08	24.05	1.000	1.000	NO	197.9	100	0.729	
38	13C-1,2,3,4,6,8-HxCDF	9.43e4	9.43e4	38	0.51	NO	1.000	10.108	33.42	33.40	1.000	1.000	NO	197.9	100	1.13	
39	Total Tetra-Dioxins	9.14e4					0.901	10.108	25.50			0.900	NO			0.142	
40	Total Penta-Dioxins	8.15e4					0.672	10.108	30.00			0.669	NO	0.8900		0.139	0.3865
41	Total Hexa-Dioxins	0.00e0					0.976	10.108	33.80			0.976	NO	5.736		0.497	6.504
42	Total Hepta-Dioxins	5.55e4					0.989	10.108	37.75			0.989	NO	54.69		0.793	54.69
43	Total Tetra-Furans	1.37e5					0.943	10.108	24.00			0.943	NO	1.961		0.394	2.985
44	1st Func. Penta-Furans	0.00e0					0.940	10.108	27.63			0.940	NO			0.0512	
45	Total Penta-Furans	0.00e0					0.940	10.108	30.00			0.940	NO	2.490		0.174	6.582
46	Total Hexa-Furans	0.00e0					1.078	10.108	33.00			0.950	NO	9.806		0.342	10.96
47	Total Hepta-Furans	0.00e0					1.135	10.108	37.75			0.950	NO	13.42		0.816	13.42
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.80	32.38	4.375e2	3.194e2	1.240	1.37	NO	2.2472	2.2472
2	41 Total Hexa-Dioxins	33.80	32.93	1.561e2	1.145e2	1.240	1.38	NO	0.89932	0.89932
3	41 Total Hexa-Dioxins	33.80	33.19	5.023e2	4.002e2	1.240	1.26	NO	2.6795	2.6795
4	4 1,2,3,6,7,8-HxCDD	33.68	34.01	1.432e2	1.478e2	1.240	0.97	YES	0.76790	0.00000



Custom Reporting: Select reports to generate

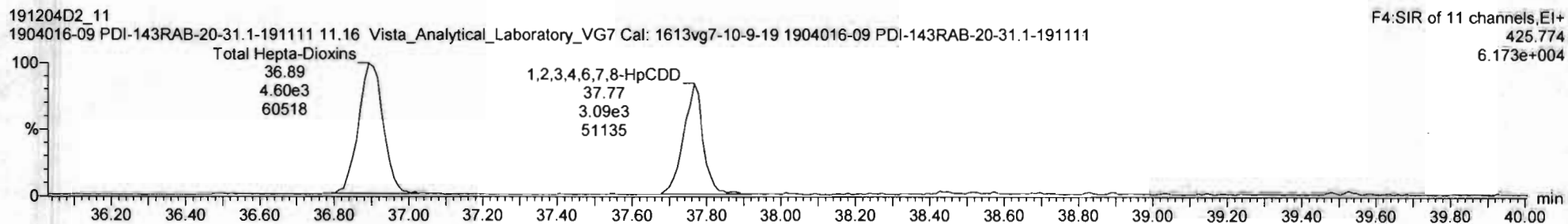
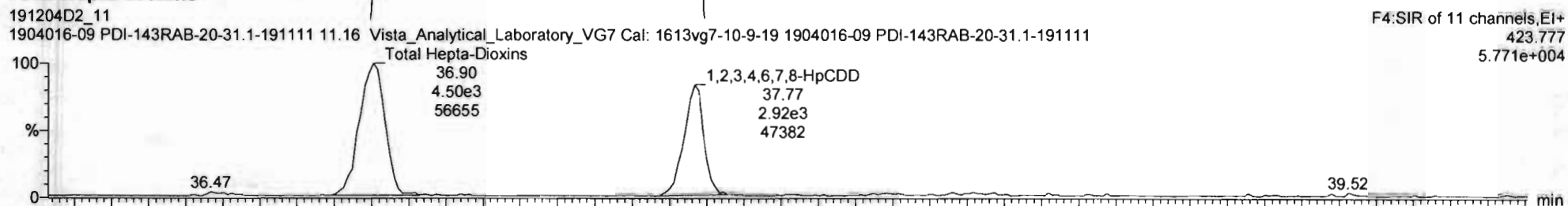
191204D2_11

NUM

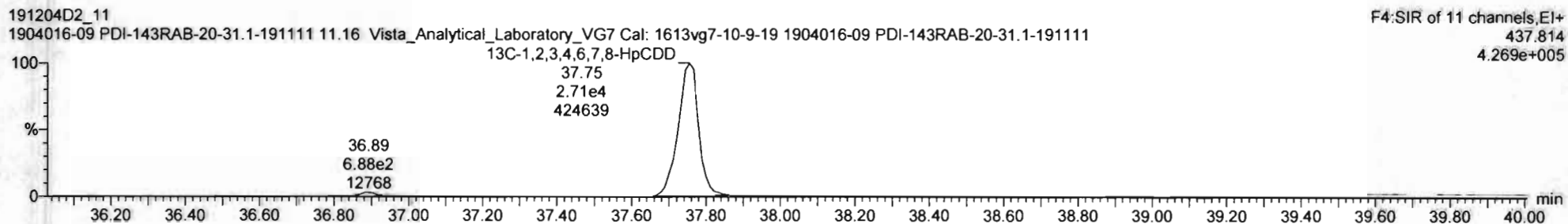
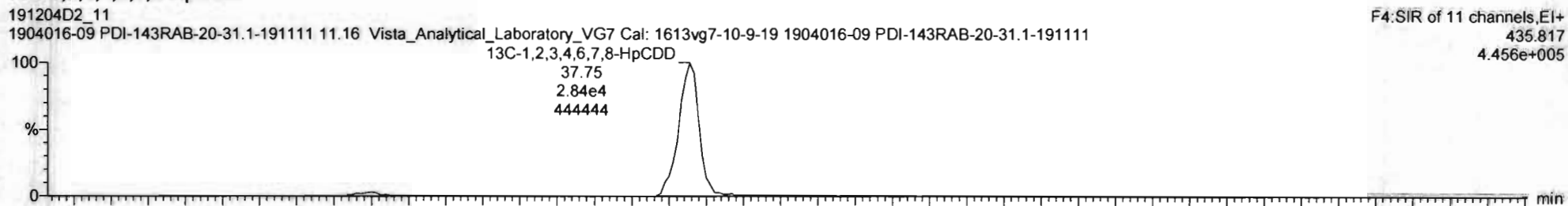


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 Description: 1904016-09 PDI-143RAB-20-31.1-191111 11.16 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hepta-Dioxins



¹³C-1,2,3,4,6,7,8-HpCDD



Vista Analytical Laboratory

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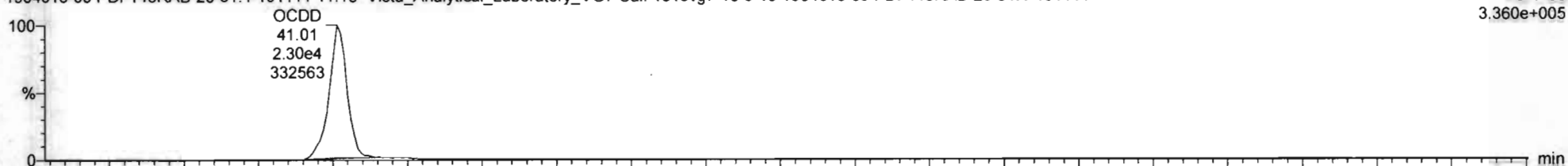
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OCDD

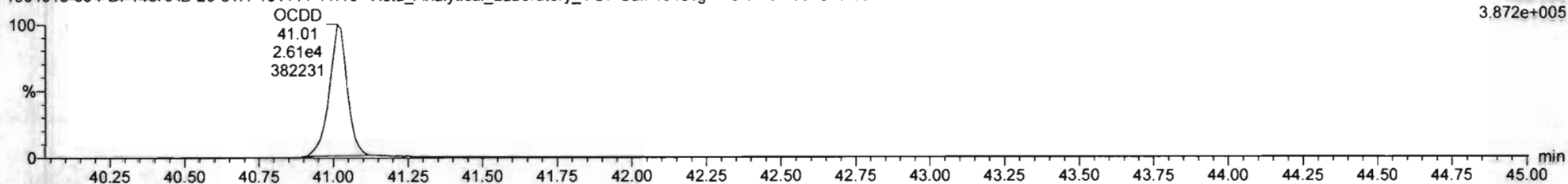
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F5:SIR of 11 channels, EI+
457.738
3.360e+005



191204D2_11
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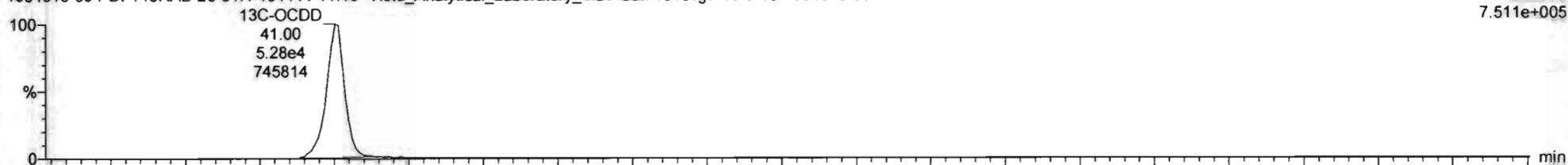
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13C-OCDD

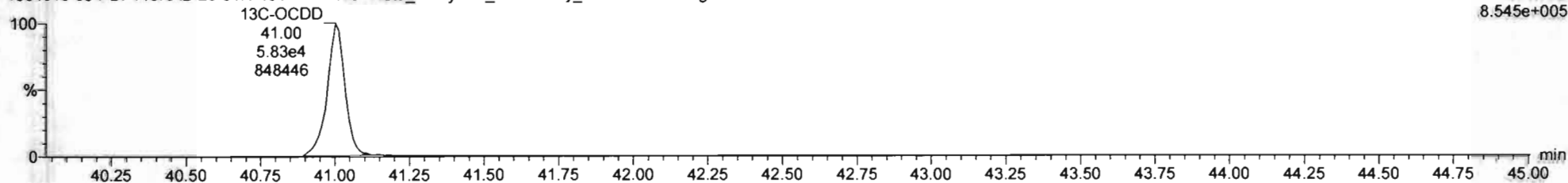
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F5:SIR of 11 channels, EI+
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7.511e+005



191204D2_11
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F5:SIR of 11 channels, EI+
471.775
8.545e+005



Vista Analytical Laboratory

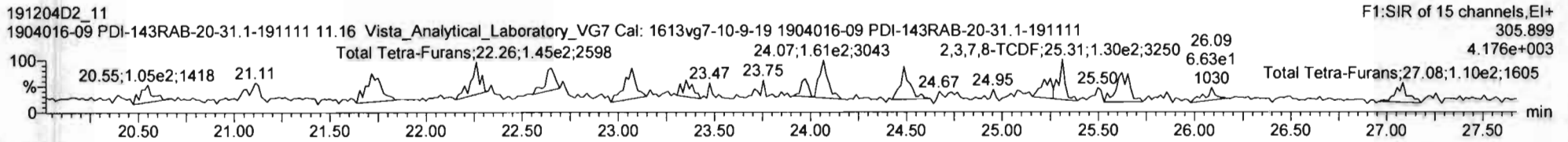
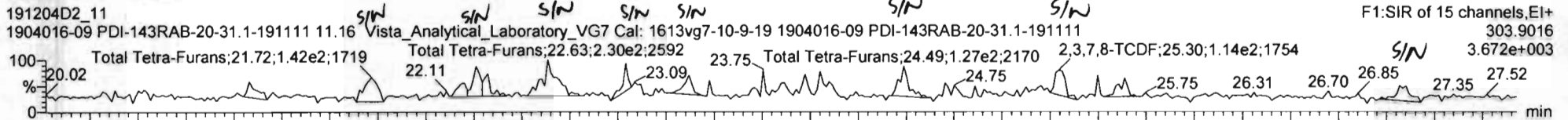
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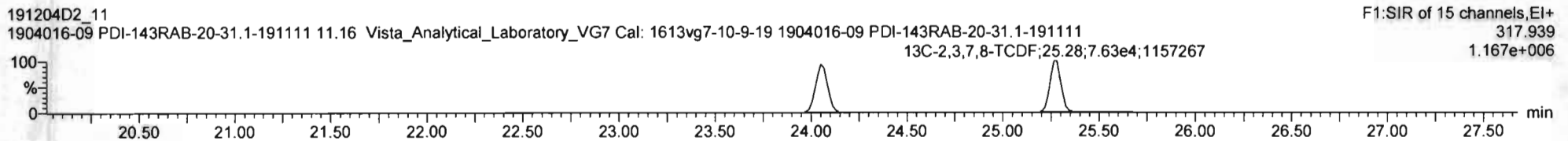
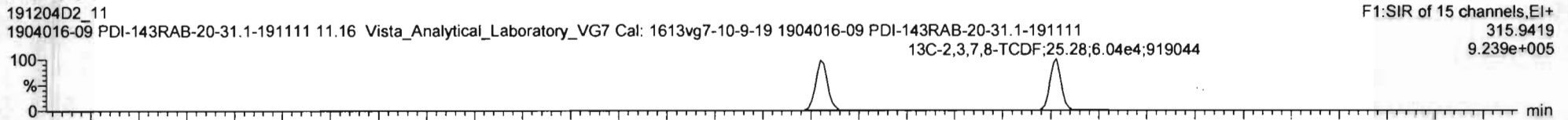
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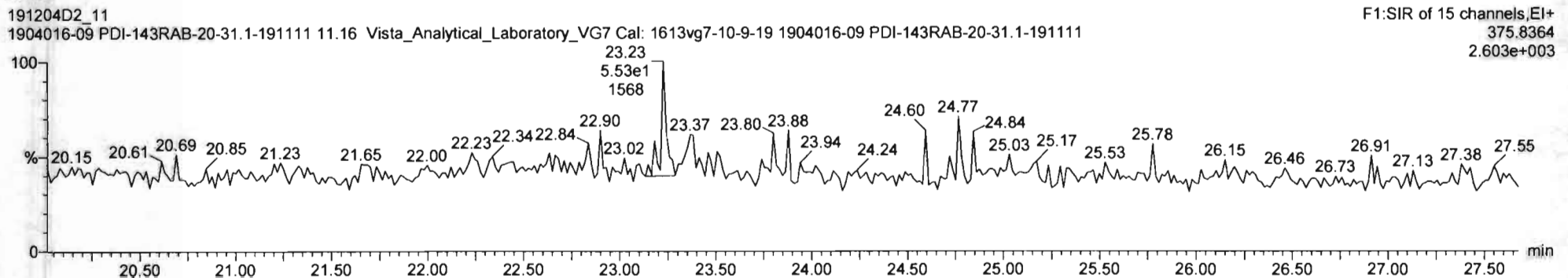
Total Tetra-Furans



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

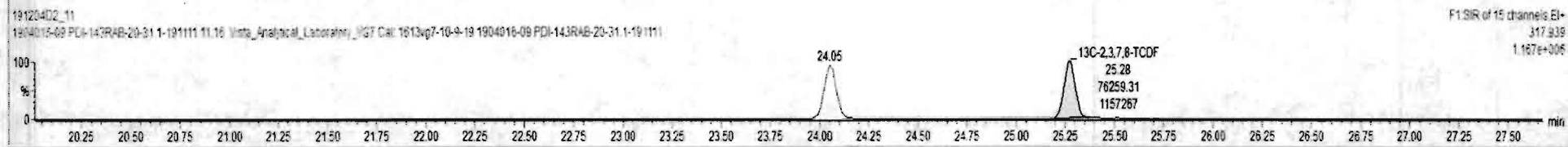
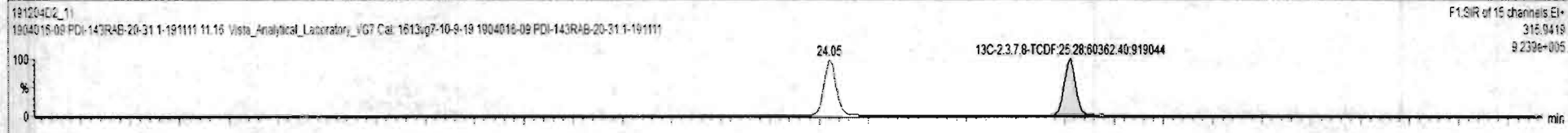
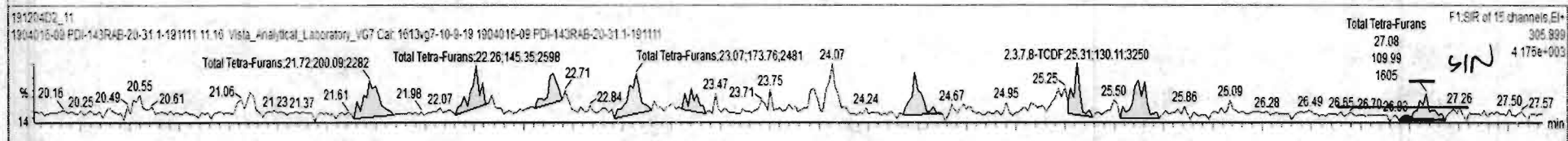
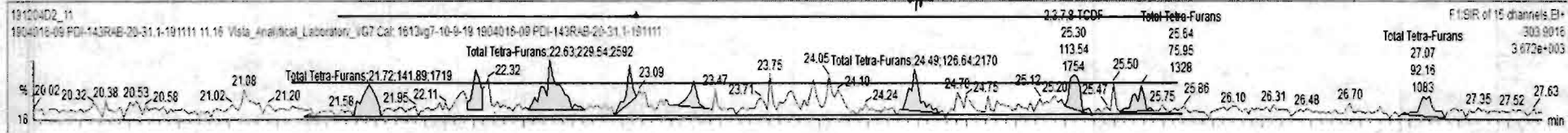


DPE1



#	Name	Resp	IS Resp	IS#	RA	n/y	RF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Chem RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins		9.14e4				0.901	10.108	25.50			0.000	NO			0.142	
40	Total Penta-Dioxins		8.15e4				0.672	10.108	30.00			0.000	NO	0.0000		0.139	0.3869
41	Total Hexa-Dioxins		0.00e0				0.976	10.108	33.80			0.000	NO	5.736		0.497	6.504
42	Total Hepta-Dioxins		5.55e4				0.989	10.108	37.75			0.000	NO	54.69		0.783	54.69
43	Total Tetra-Furans		1.37e5				0.943	10.108	24.00			0.000	NO	1.861		0.384	2.985
44	1st Func. Penta-Furans		0.00e0				0.940	10.108	27.63			0.000	NO			0.0512	
45	Total Penta-Furans		0.00e0				0.940	10.108	30.00			0.000	NO	2.490		0.174	6.562
46	Total Hexa-Furans		0.00e0				1.078	10.108	33.00			0.000	NO	9.806		0.342	10.98
47	Total Hepta-Furans		0.00e0				1.135	10.108	37.75			0.000	NO	13.42		0.816	13.42
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																
53	DPE1																
54	DPE2																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	24.00	21.72	1.419e2	2.001e2	0.770	0.71	NO	0.52531	0.52531
2	Total Tetra-Furans	24.00	22.28	9.404e1	1.453e2	0.770	0.65	YES	0.33205	0.00000
3	Total Tetra-Furans	24.00	22.83	2.295e2	1.069e2	0.770	2.15	YES	0.29077	0.00000
4	Total Tetra-Furans	24.00	23.04	6.615e1	1.735e2	0.770	0.38	YES	0.23368	0.00000



Vista Analytical Laboratory

Dataset: Untitled

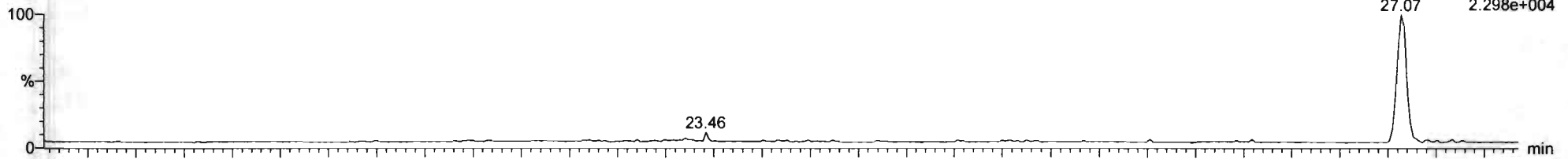
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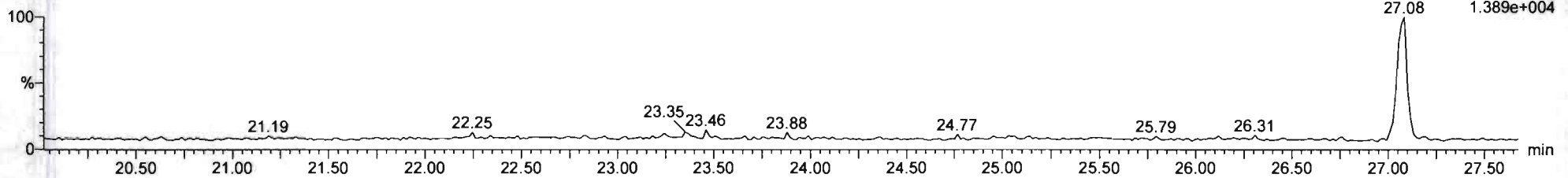
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Description: 1904016-09 PDI-143RAB-20-31.1-191111 11.16 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

1st Func. Penta-Furans

191204D2_11
1904016-09 PDI-143RAB-20-31.1-191111 11.16 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 1904016-09 PDI-143RAB-20-31.1-191111

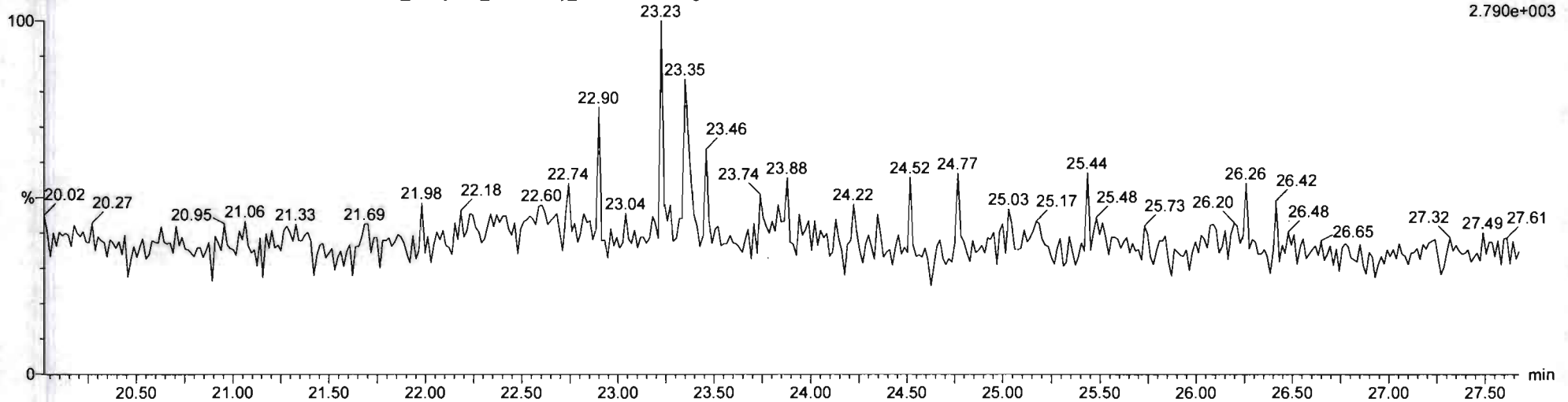


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DPE6

191204D2_11
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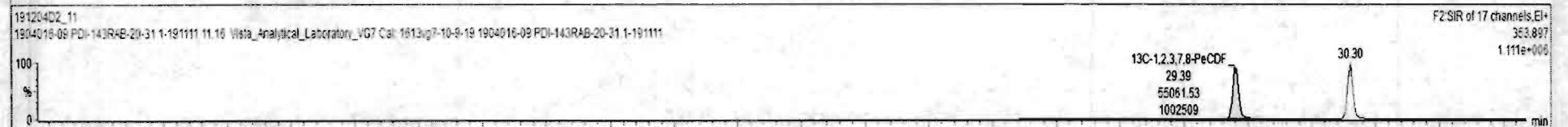
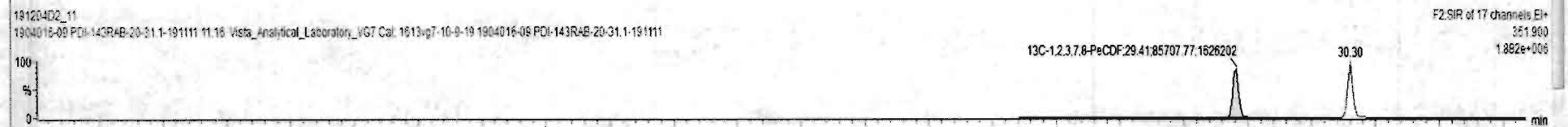
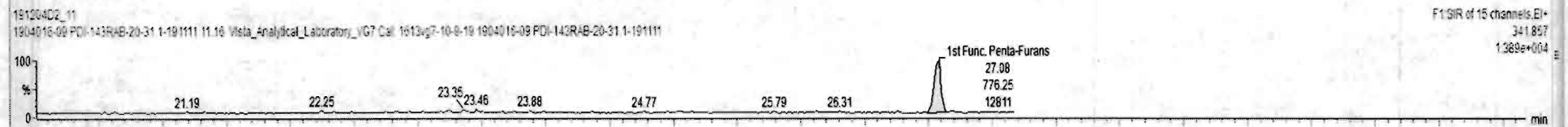
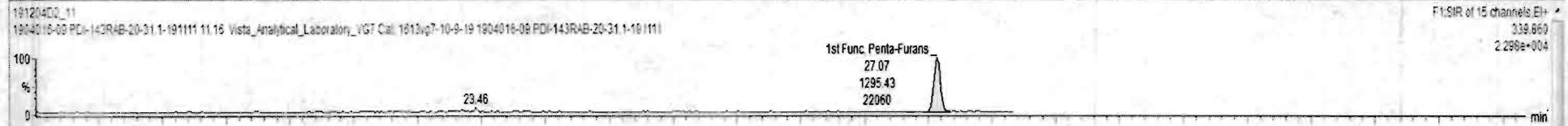




191204D2_11 - 1904016-09 PDI-143RAB-20-31 1-191111 - 1904016-09 PDI-143RAB-20-31 1-191111 11.16 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Resp	IS Resp	IS	RA	nly	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
35	37Cl-2,3,7,8-TCDD	3.82e4	8.43e4	36			1.198	10.108	26.06	26.07	1.023	1.022	NO				
36	13C-1,2,3,4-TCDD	8.43e4	8.43e4	36	0.78	NO	1.000	10.108	25.50	25.50	1.000	1.000	NO				
37	13C-1,2,3,4-TCDF	1.40e5	1.40e5	37	0.81	NO	1.000	10.108	24.06	24.05	1.000	1.000	NO				
38	13C-1,2,3,4,6,8-HxCDF	9.43e4	9.43e4	38	0.51	NO	1.000	10.108	33.42	33.40	1.000	1.000	NO				
39	Total Tetra-Dioxins		9.14e4				0.901	10.108	25.50			0.000	NO				
40	Total Penta-Dioxins		8.15e4				0.872	10.108	30.00			0.000	NO				
41	Total Hexa-Dioxins		0.90e0				0.976	10.108	33.80			0.000	NO				
42	Total Hepta-Dioxins		5.55e4				0.989	10.108	37.75			0.000	NO				
43	Total Tetra-Furans		1.37e5				0.943	10.108	24.00			0.000	NO				
44	1st Func. Penta-Furans		0.00e0				0.940	10.108	27.63			0.000	NO				
45	Total Penta-Furans		0.00e0				0.940	10.108	30.00			0.000	NO				
46	Total Hexa-Furans		0.00e0				1.078	10.108	33.00			0.000	NO				
47	Total Hepta-Furans		0.00e0				1.135	10.108	37.75			0.000	NO				
48	PFK1																
49	PFK2																
50	PFK3																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.
1	44 1st Func. Penta-Furans	27.63	27.07	1.295e3	7.783e2	1.550	1.87	NO		



Vista Analytical Laboratory

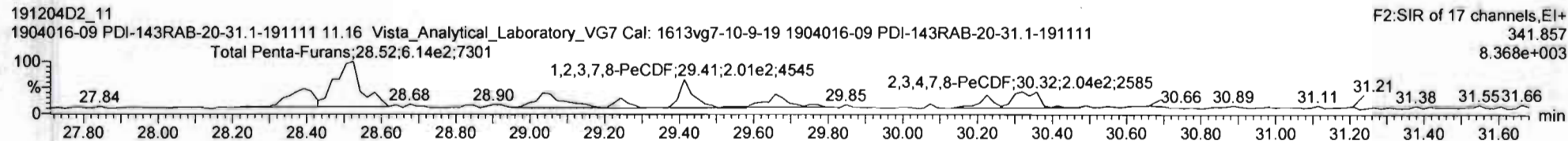
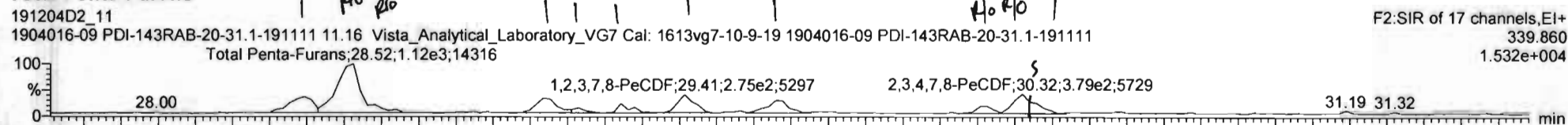
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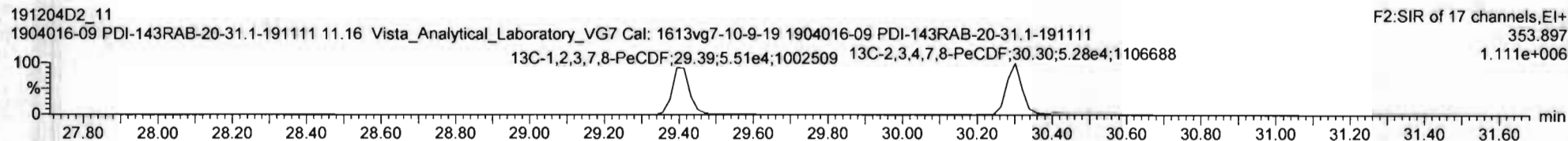
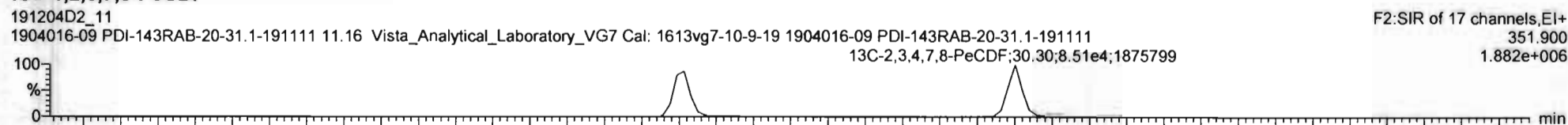
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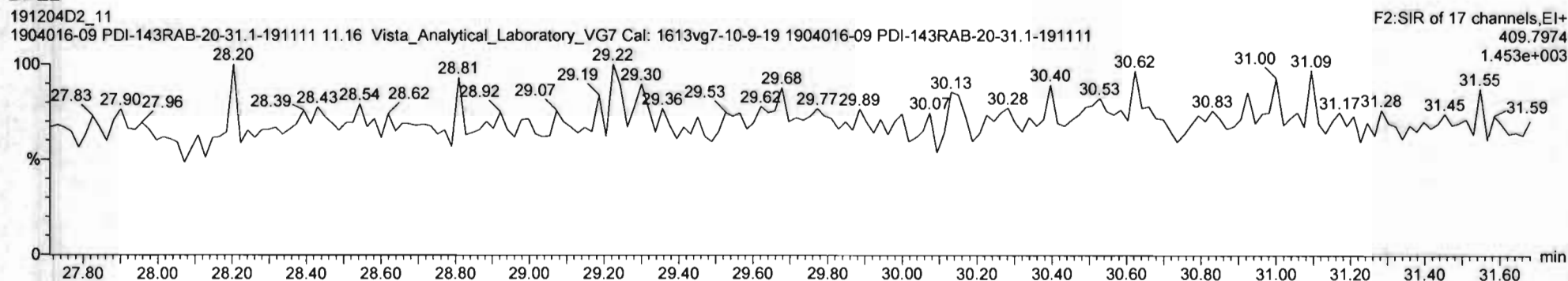
Total Penta-Furans

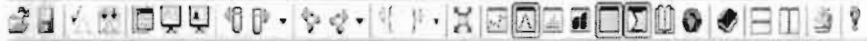


13C-1,2,3,7,8-PeCDF



DPE2

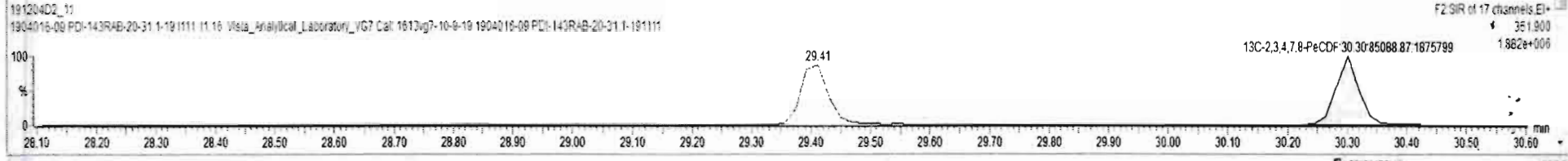
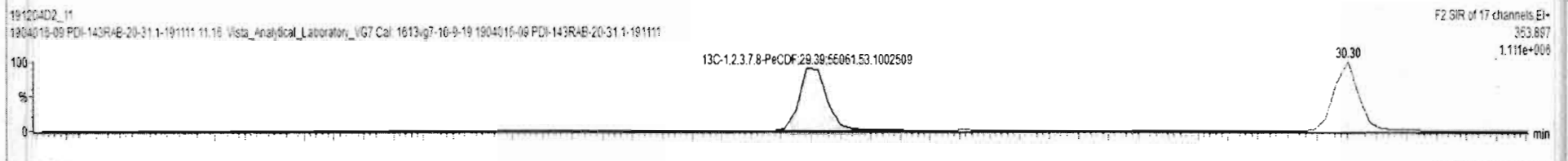
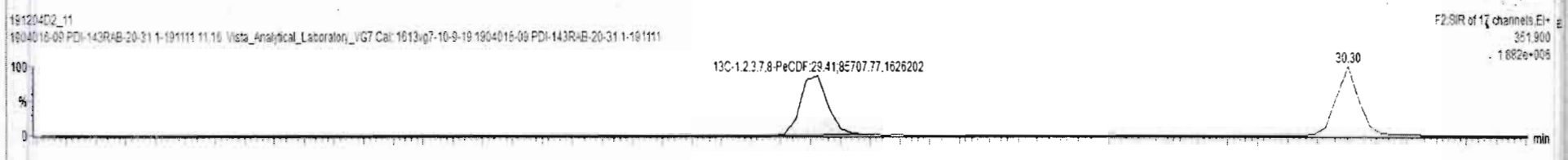
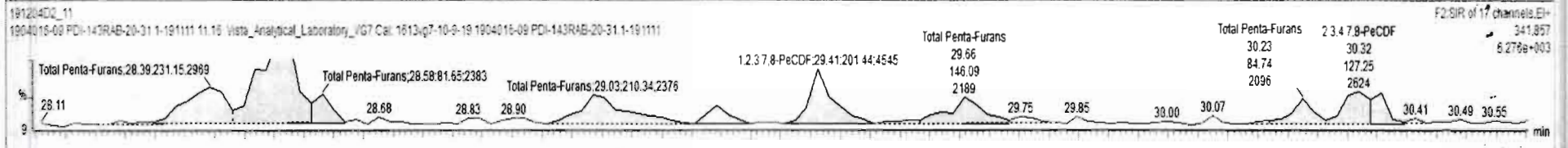
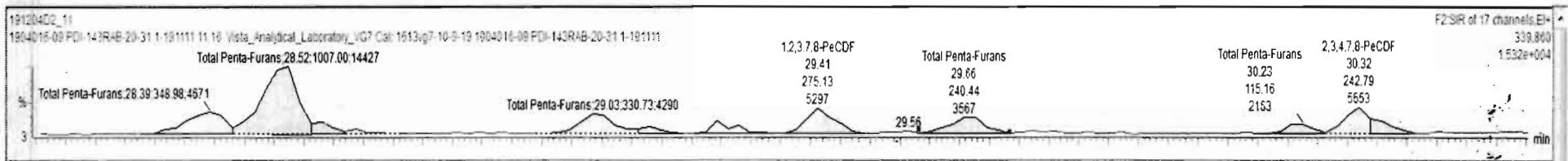




191204D2_11 - 1904016-09 PDI-143RAB-20-31 1-191111 - 1904016-09 PDI-143RAB-20-31 1-191111 11.16 Vista_Analytical_Laboratory_VG7 Cal 1613vg7-10-9-19

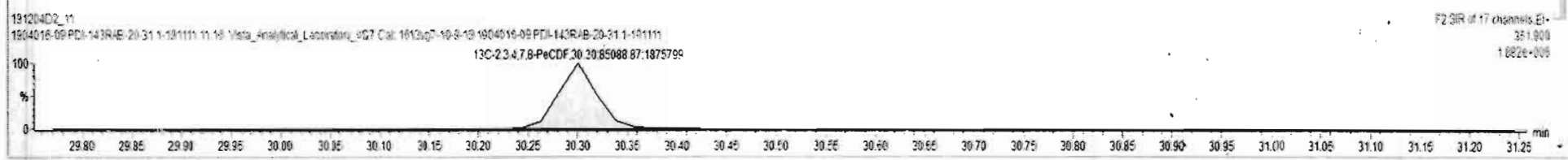
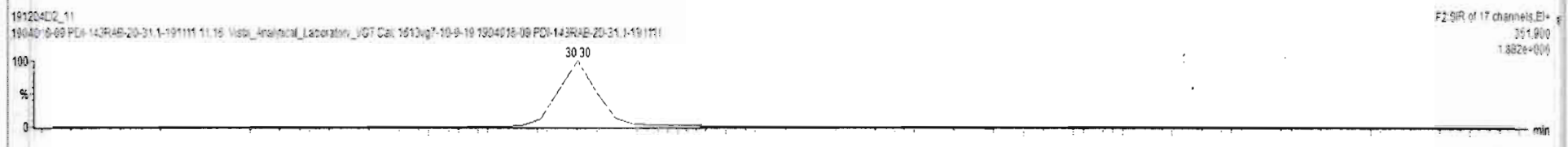
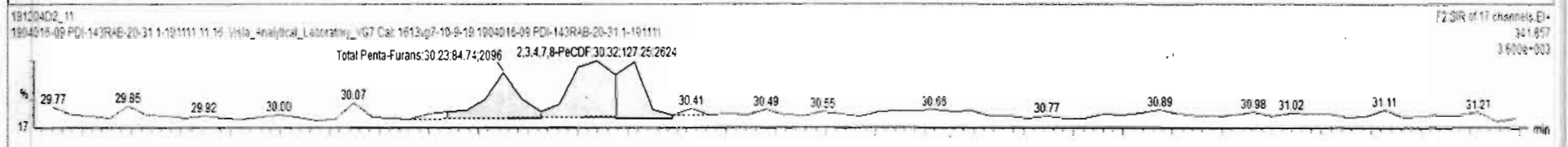
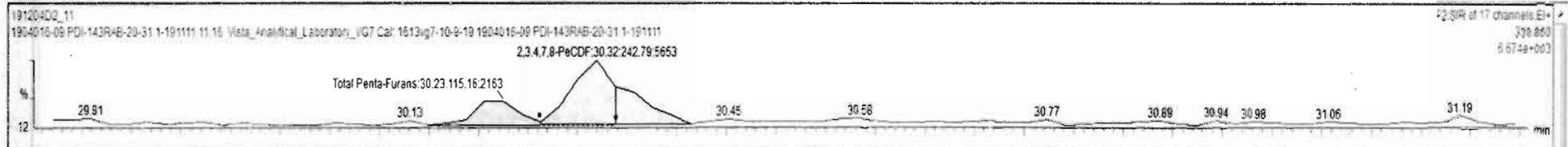
#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	w/vol	Pred RT	RT	RRT	Pred.RRT	Check.RRT	Conc	%Res	DL	EMPC
33	13C-1,2,3,4,7,8-HpCDF	4.88e4	9.43e4	36	0.43	NO	0.581	10.108	38.18	38.29	1.146	1.143	NO	178.0	88.0	1.74	
34	13C-OCDF	1.30e5	9.43e4	36	0.89	NO	0.689	10.108	41.19	41.22	1.234	1.233	NO	396.5	100	0.896	
35	13C-2,3,7,8-TCDD	3.82e4	8.43e4	36			1.198	10.108	26.06	26.07	1.023	1.022	NO	74.81	94.5	0.275	
36	13C-1,2,3,4-TCDD	8.43e4	8.43e4	36	0.78	NO	1.000	10.108	25.50	25.50	1.000	1.000	NO	197.9	100	0.595	
37	13C-1,2,3,4-TCDF	1.40e5	1.40e5	37	0.81	NO	1.000	10.108	24.06	24.05	1.000	1.000	NO	197.9	100	0.729	
38	13C-1,2,3,4,6,8-HxCDF	9.43e4	9.43e4	36	0.51	NO	1.000	10.108	33.42	33.48	1.000	1.000	NO	197.9	100	1.13	
39	Total Tetra-Coxina		9.14e4				0.901	10.108	25.50			0.000	NO			0.142	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	30.00	28.39	3.450e2	2.311e2	1.550	1.51	NO	0.87686	0.87686
2	Total Penta-Furans	30.00	28.52	1.007e3	5.379e2	1.550	1.87	YES	2.0733	0.00000
3	Total Penta-Furans	30.00	28.58	9.766e1	8.165e1	1.550	1.20	YES	0.24284	0.00000
4	Total Penta-Furans	30.00	29.03	3.107e2	2.103e2	1.550	1.37	NO	0.81782	0.00000



#	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	4.88e4	9.43e4	38	0.43	NO	0.581	10.108	38.18	38.29	1.146	1.143	NO	178.0	65.0	1.74	
34	13C-OCDF	1.30e5	9.43e4	38	0.89	NO	0.689	10.108	41.19	41.22	1.234	1.233	NO	356.5	100	0.896	
35	17C-2,3,7,8-TCDD	3.02e4	8.43e4	36			1.198	10.108	26.06	26.07	1.023	1.022	NO	74.61	94.5	0.275	
36	13C-1,2,3,4-TCDD	8.43e4	8.43e4	36	0.78	NO	1.000	10.108	25.50	25.50	1.000	1.000	NO	157.9	100	0.595	
37	13C-1,2,3,4-TCDF	1.40e5	1.40e5	37	0.81	NO	1.000	10.108	24.06	24.05	1.000	1.000	NO	157.9	100	0.729	
38	13C-1,2,3,4,6,8-HxCDF	9.43e4	9.43e4	38	0.51	NO	1.000	10.108	33.42	33.40	1.000	1.000	NO	157.9	100	1.13	
39	Total Tetra-Dioxins		9.14e4				0.901	10.108	25.50				NO			0.142	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	Total Penta-Furans	30.00	28.39	3.450e2	2.311e2	1.550	1.51	NO	0.87686	0.87686
2	Total Penta-Furans	30.00	28.52	1.007e3	5.379e2	1.550	1.87	YES	2.8733	0.00000
3	Total Penta-Furans	30.00	28.58	9.756e1	8.165e1	1.550	1.20	YES	0.24284	0.00000
4	Total Penta-Furans	30.00	29.03	3.107e2	2.107e2	1.550	1.47	NO	0.81282	0.00000



Vista Analytical Laboratory

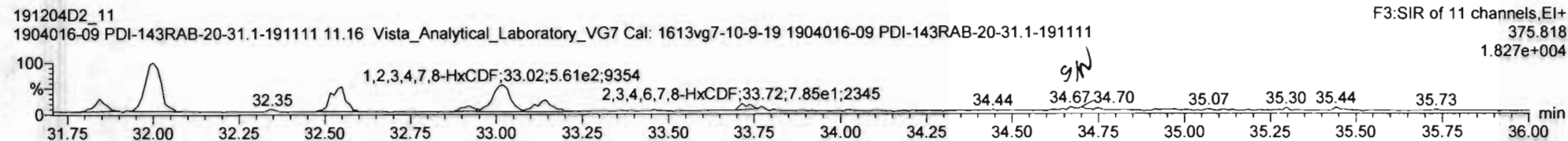
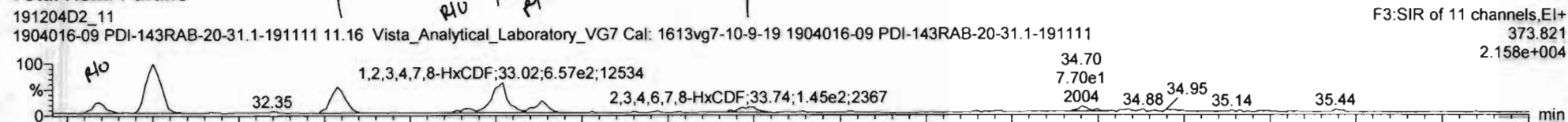
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

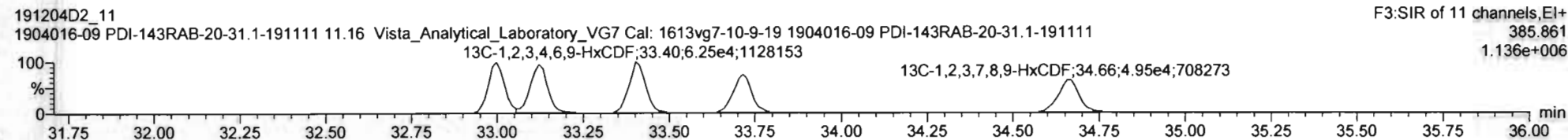
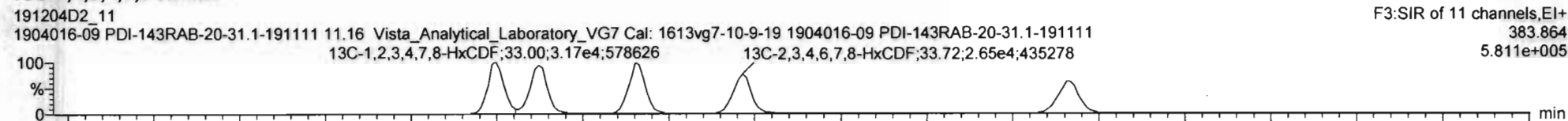
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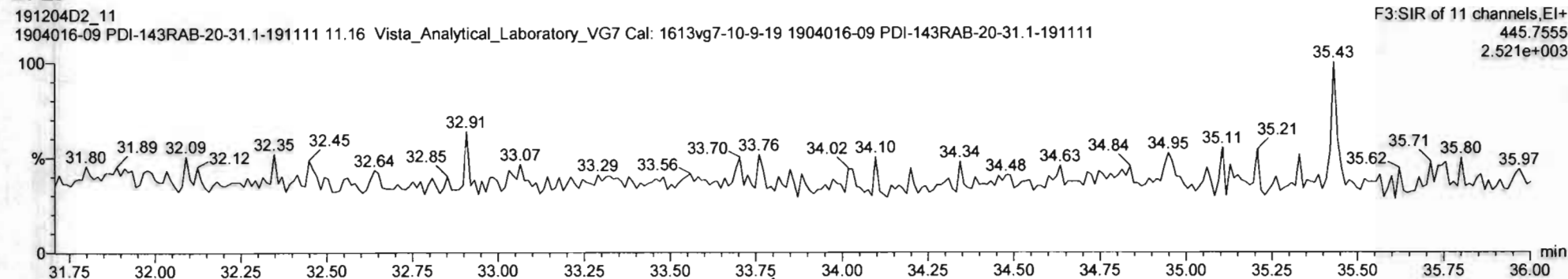
Total Hexa-Furans



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



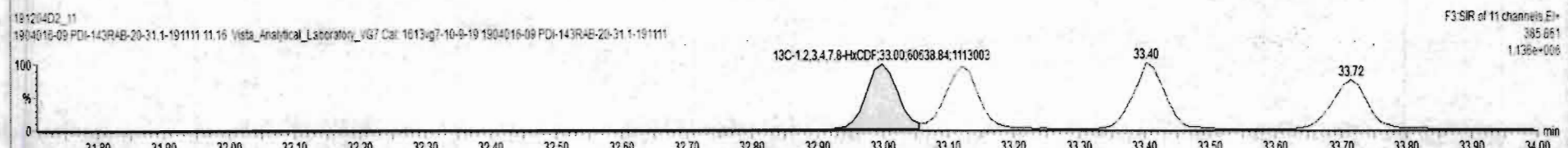
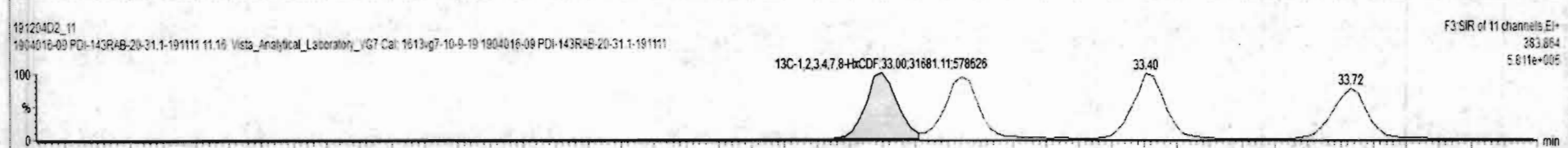
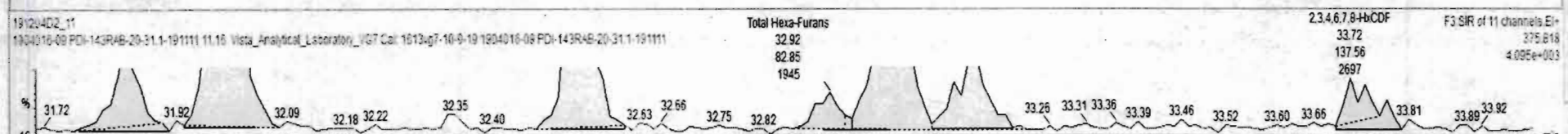
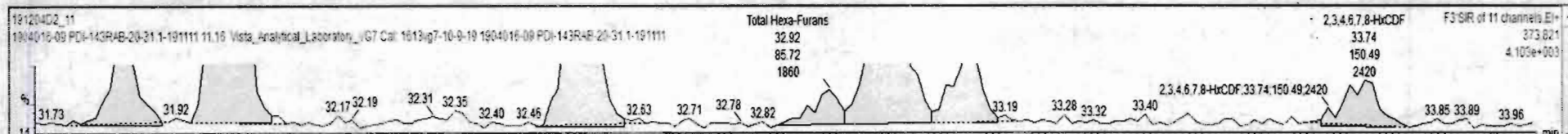
DPE3



191204D2_11 - 1904016-09 PDI-143RAB-20-31.1-191111 - 1904016-09 PDI-143RAB-20-31.1-191111 11.16 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
46	Total Hexa-Furans		0.00e0				1.078	10.168	33.00			0.000	NC	9.305		0.342	11.27
47	Total Hepta-Furans		0.00e0				1.135	10.108	37.75			0.000	NC	13.42		0.816	13.42
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																
49	PFK1																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	46 Total Hexa-Furans	33.00	31.84	2.210e2	2.102e2	1.240	1.05	YES	0.86366	0.00000
2	46 Total Hexa-Furans	33.00	32.00	1.036e3	9.357e2	1.240	1.11	NO	4.2654	4.2654
3	46 Total Hexa-Furans	33.00	32.54	5.517e2	4.526e2	1.240	1.22	NO	2.1729	2.1729
4	46 Total Hexa-Furans	33.00	32.52	8.572e1	8.265e1	1.240	1.03	YES	0.33595	0.00000
5	11 1,2,3,4,7,8-HxCDF	33.00	33.02	6.572e2	5.568e2	1.240	1.18	NO	2.2110	2.2110
6	12 1,2,3,6,7,8-HxCDF	33.13	33.13	2.147e2	2.124e2	1.240	1.01	YES	0.76155	0.00000
7	13 2,3,4,6,7,8-HxCDF	33.75	33.74	1.505e2	1.376e2	1.240	1.06	NO	0.65557	0.65557



Vista Analytical Laboratory

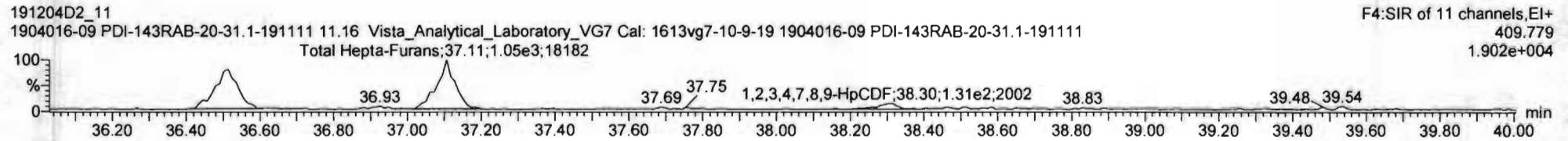
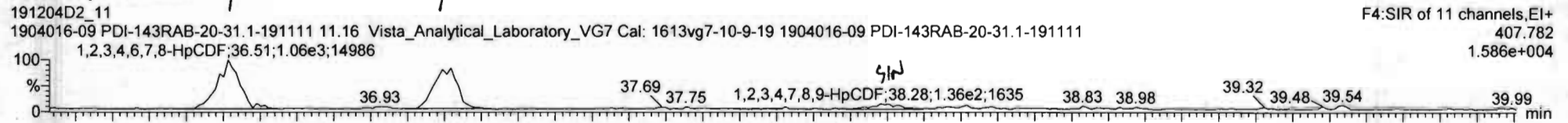
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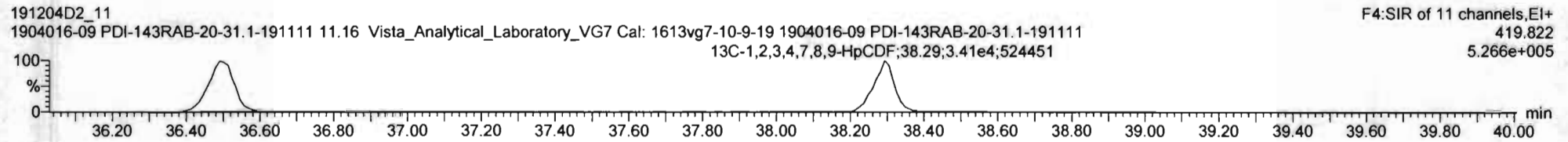
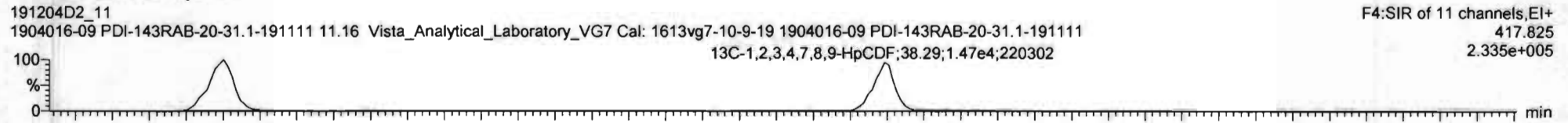
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Name: 191204D2_11, Date: 5-DEC-2019, Time: 15:33:00, ID: 1904016-09 PDI-143RAB-20-31.1-191111, Description: 1904016-09 PDI-143RAB-20-31.1-191111 11.16 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

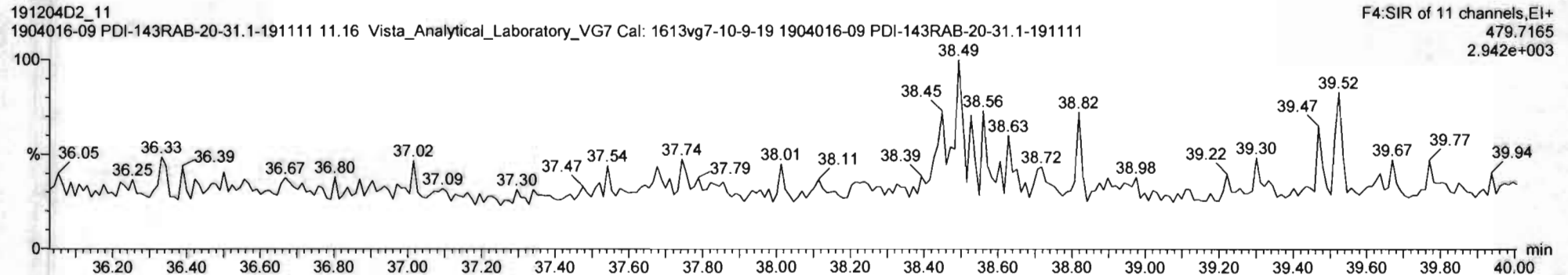
Total Hepta-Furans



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



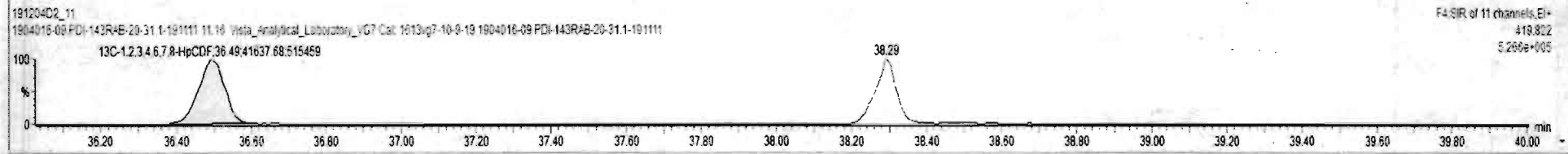
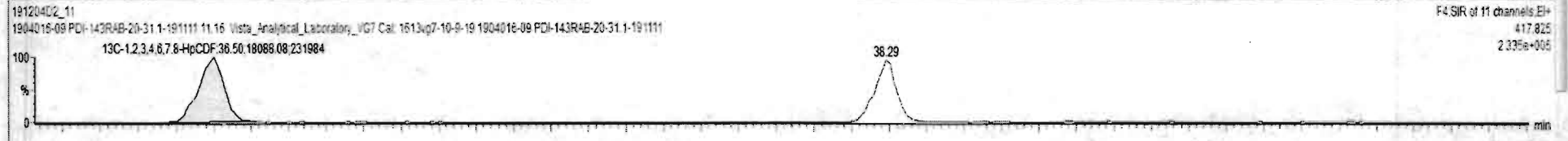
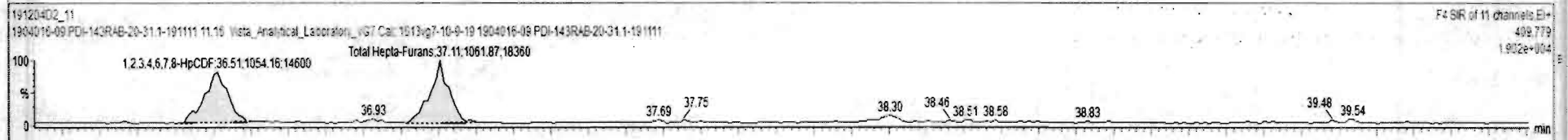
DPE4



191204D2_11 - 1904016-09 PDI-143RAB-20-31 1-191111 - 1904016-09 PDI-143RAB-20-31 1-191111 11.16 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
46	Total Hexa-Furans		0.00e0				1.078	10.108	33.00				0.000	NO	9.305	0.342	11.27
47	Total Hepta-Furans		0.00e0				1.135	10.108	37.75				0.000	NO	6.101	0.816	11.94
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	1,2,3,4,6,7,8-HpCDF	36.54	36.51	1.022e3	1.054e3	1.040	0.97	NO	6.1012	6.1012
2	Total Hepta-Furans	37.75	37.12	9.262e2	1.062e3	1.040	0.87	YES	5.8391	0.00000



Vista Analytical Laboratory

Dataset: Untitled

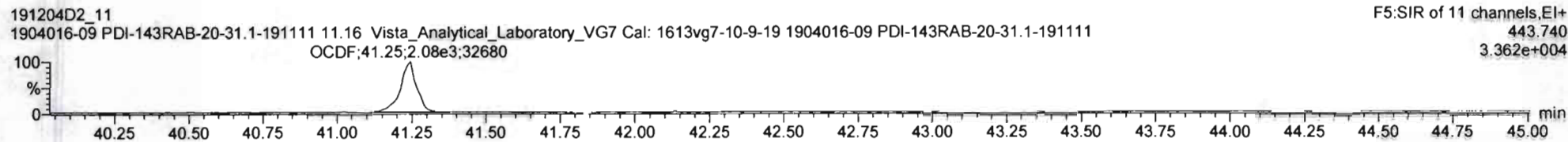
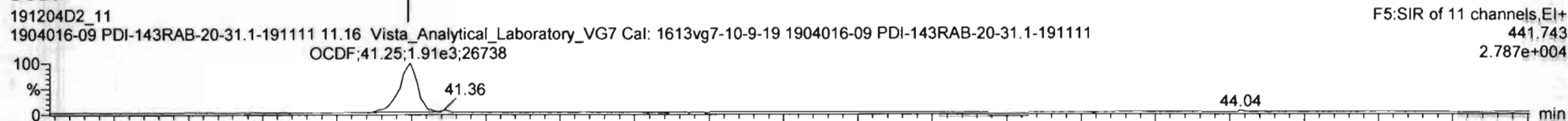
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Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

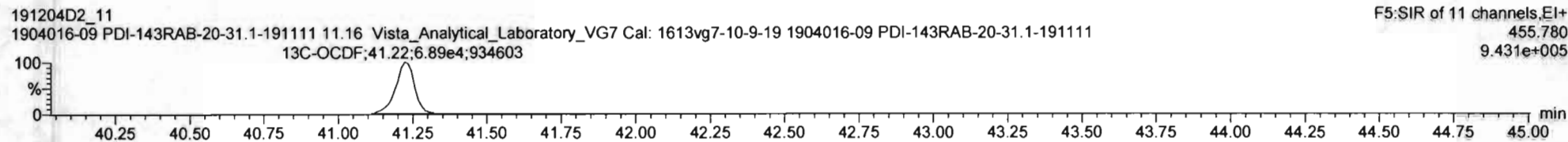
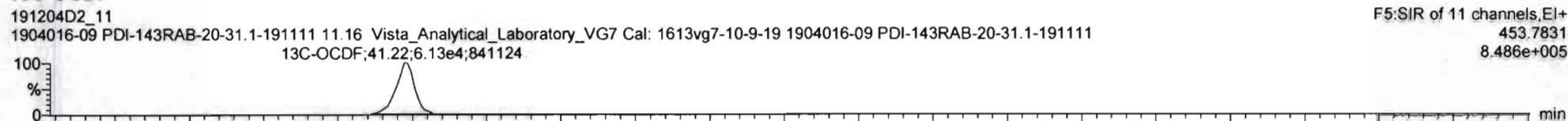
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Description: 1904016-09 PDI-143RAB-20-31.1-191111 11.16 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

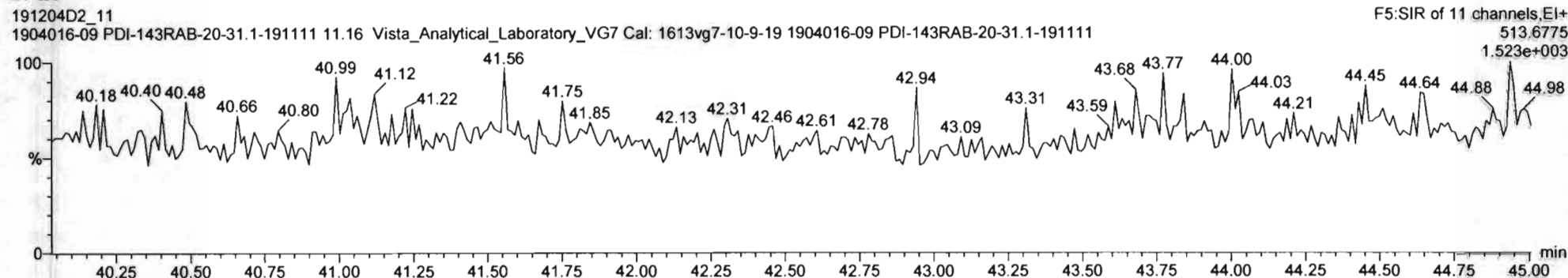
OCDF



13C-OCDF



DPE5



Vista Analytical Laboratory

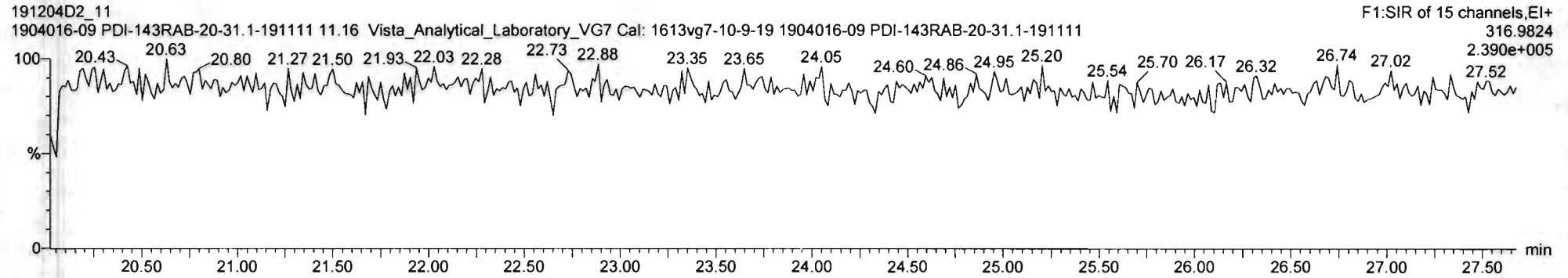
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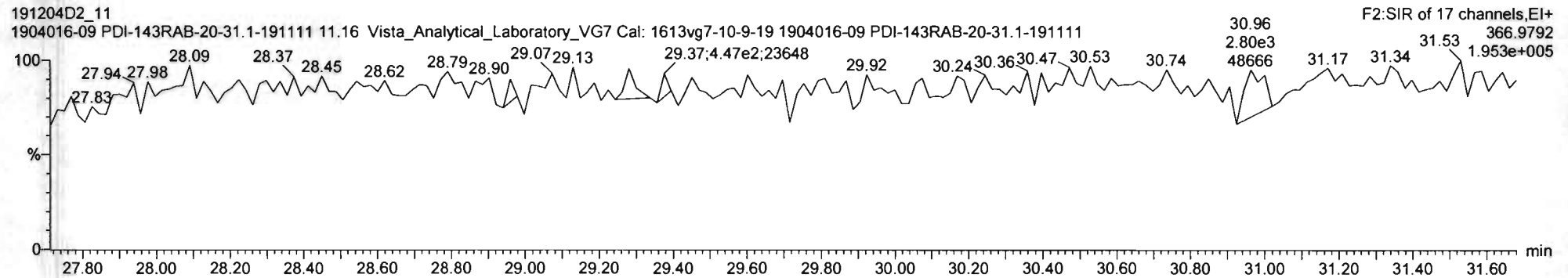
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Description: 1904016-09 PDI-143RAB-20-31.1-191111 11.16 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

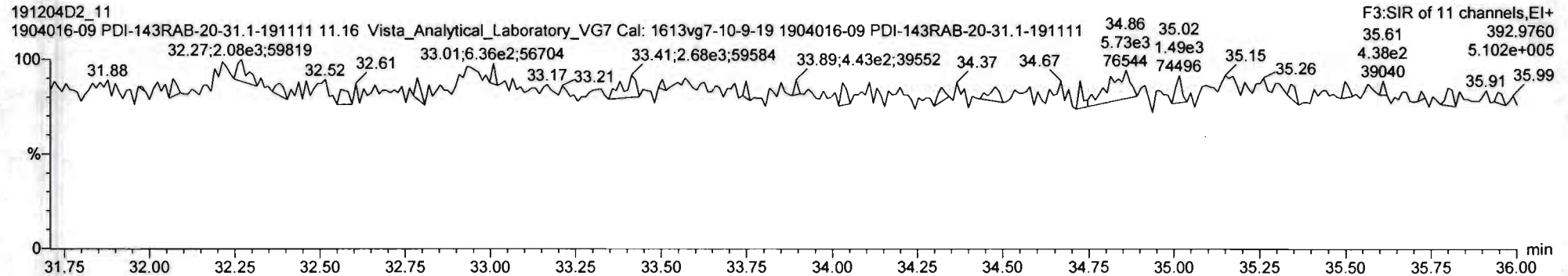
PFK1



PFK2

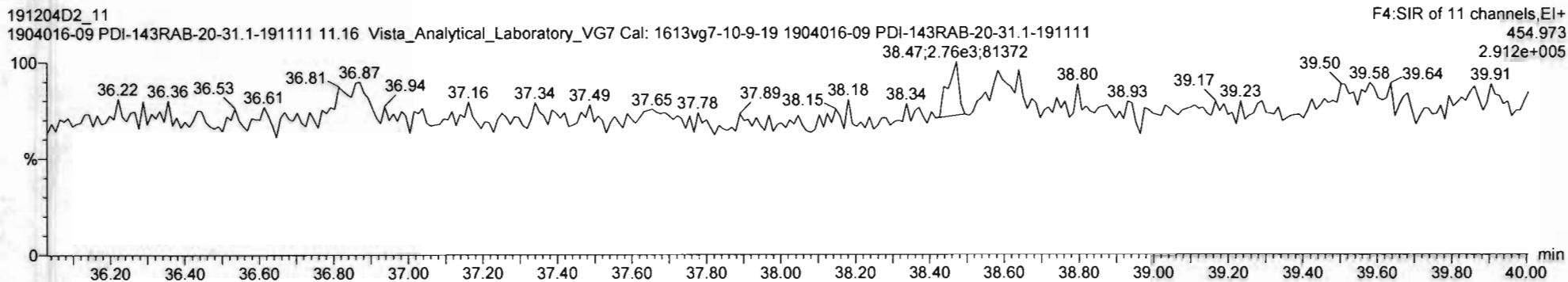


PFK3

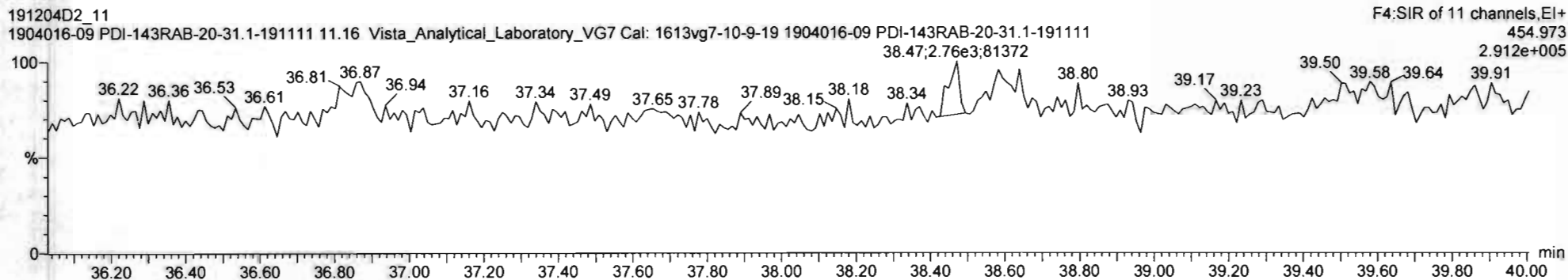


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Description: 1904016-09 PDI-143RAB-20-31.1-191111 11.16 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

PFK4



PFK5



CONFIRMATION

Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	1.37e+07	0.78 y	15:36	1.00	199.4	-
13C-2,3,7,8-TCDF	7.54e+06	0.77 y	17:43	1.02	107.2	53.8
2,3,7,8-TCDF	1.34e+05	0.83 y	17:43	0.95	3.731	

Integrations

by
Analyst: DB

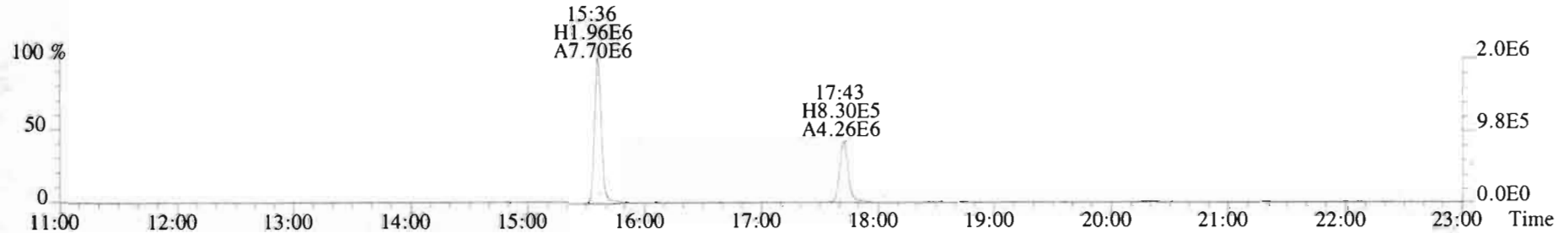
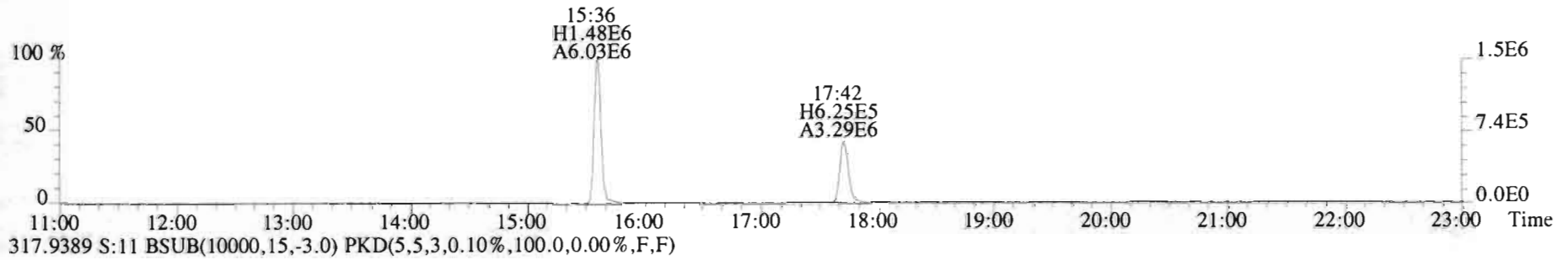
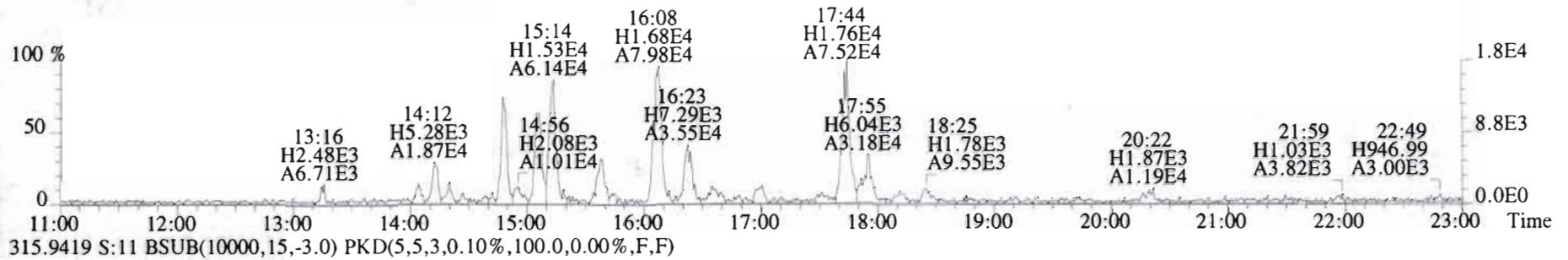
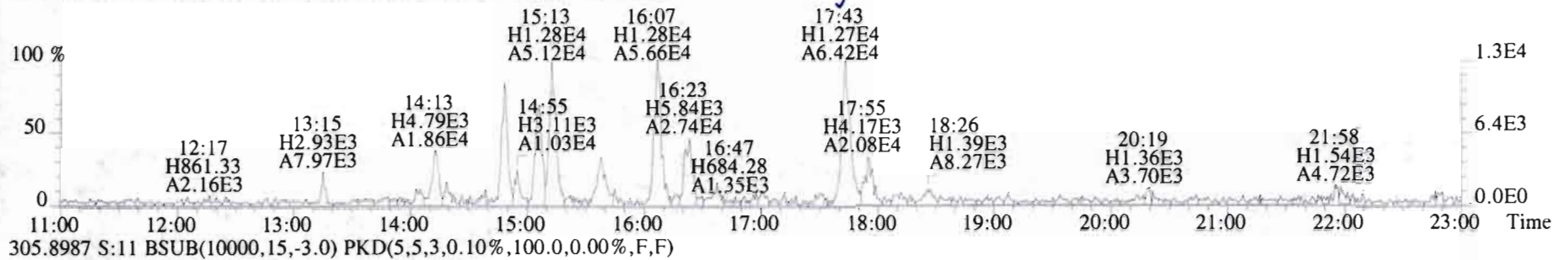
Date: 1/6/20

Reviewed

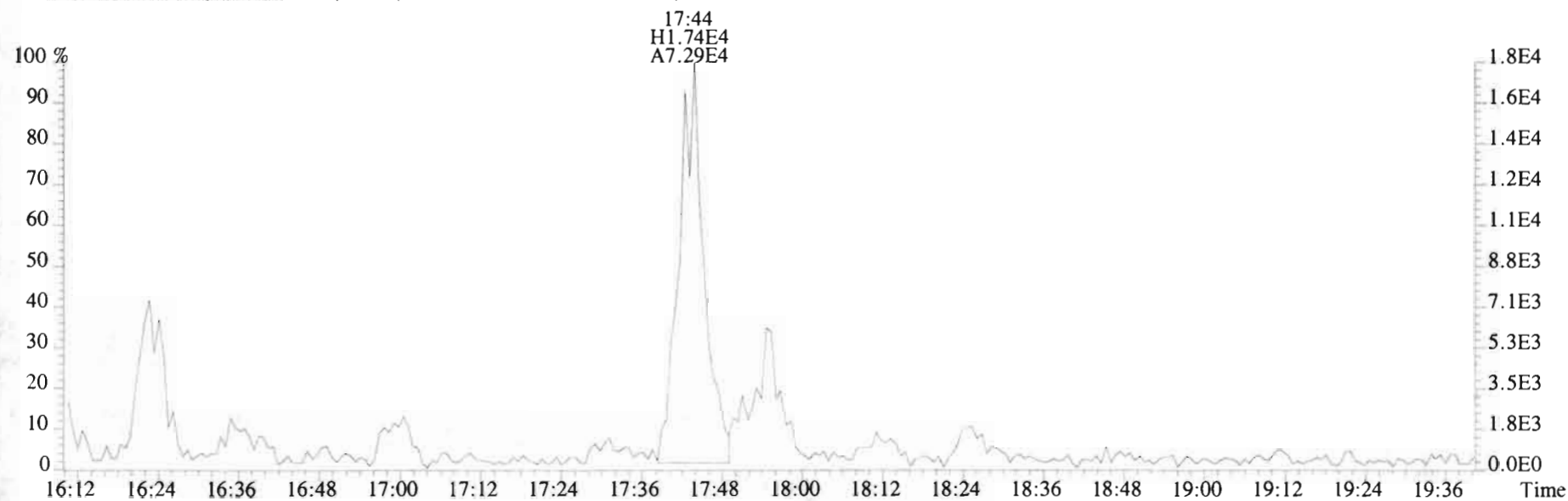
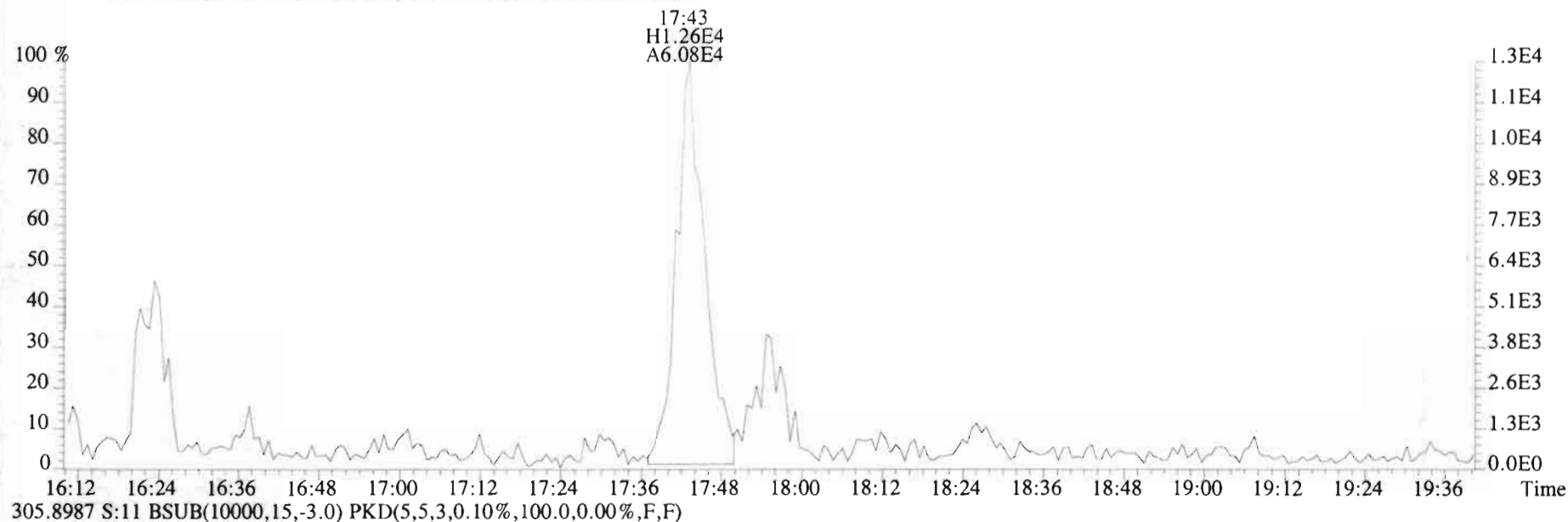
by
Analyst: MLK

Date: 1/6/20

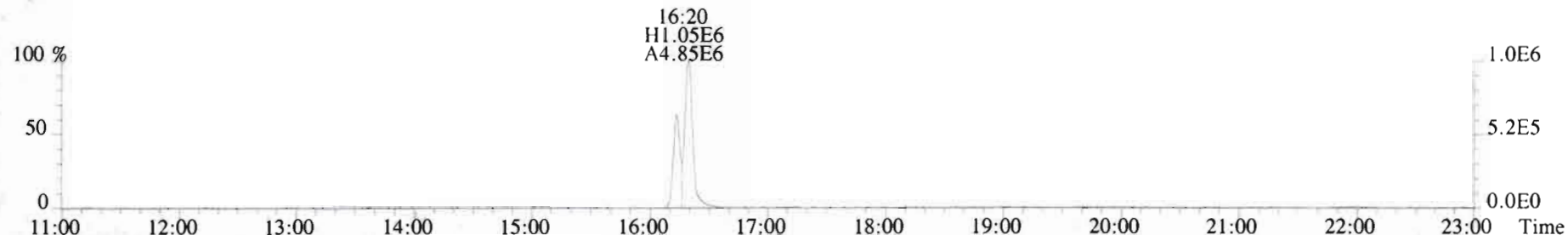
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Sample#11 File Text: Vista Analytical Laboratory VG7 Text:1904016-06RE1 PDI-141RAB-10-17.7-191107 11.96 Exp:TCDF_DB225
303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



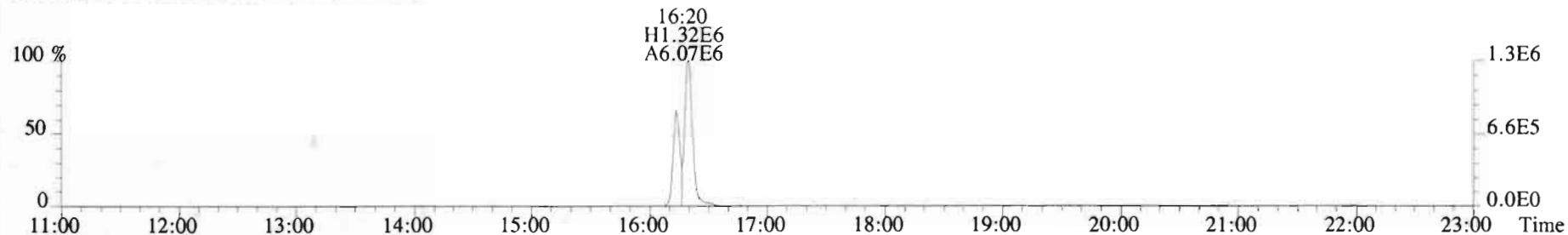
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Sample#11 File Text:Vista Analytical Laboratory VG7 Text:1904016-06REI PDI-141RAB-10-17.7-191107 11.96 Exp:TCDF_DB225
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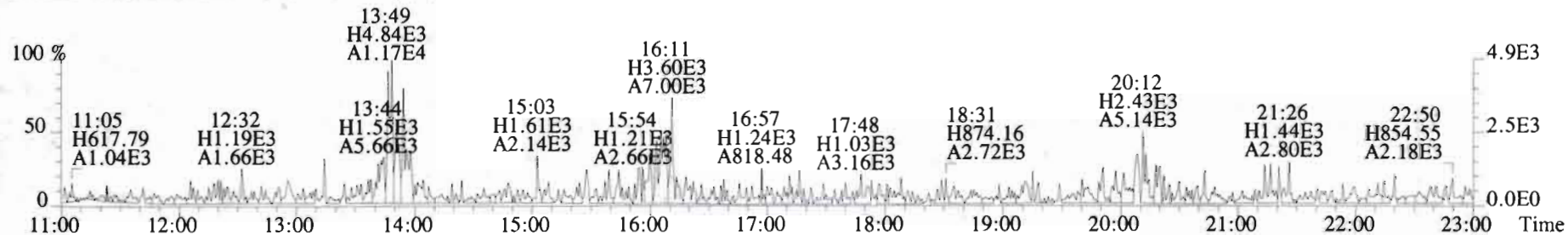
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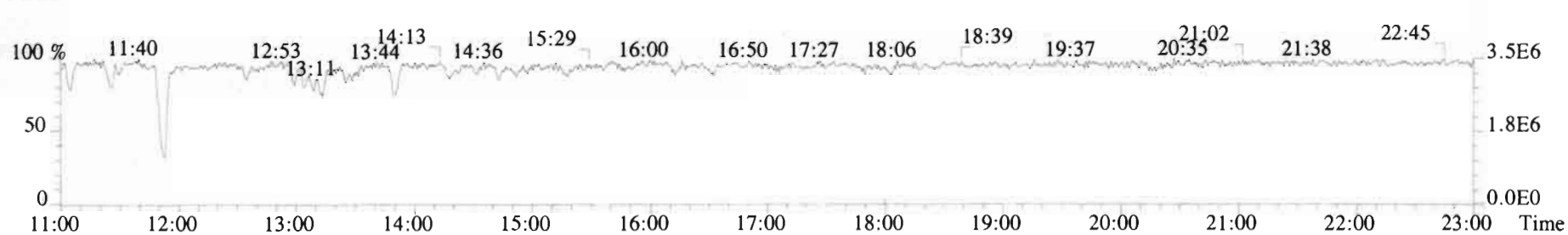
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375.8364 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



330.9792 S:11



SAMPLE DATA – EPA METHOD 1699

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-12.qld

Last Altered: Tuesday, November 26, 2019 10:29:39 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:30:17 Pacific Standard Time

GRD 11/26/19

CT 11/26/19

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_12, Date: 23-Nov-2019, Time: 01:03:46, ID: B9K0146-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	3.76e3	4.69e5	1.18	NO	0.874	1.000	22.83	22.83	1.001	1.001	NO	9.16		0.233	9.16
2	3 Alpha-BHC		2.72e5		NO	0.760	1.000	23.40			1.002	YES			2.92	
3	4 Lindane (gamma-BHC)		2.09e5		NO	0.744	1.000	26.65			1.001	YES			4.68	
4	5 Beta-BHC		1.66e5		NO	0.896	1.000	28.71			1.000	YES			3.93	
5	6 Delta-BHC		4.98e5		NO	0.837	1.000	30.41			1.001	YES			3.45	
6	7 Heptachlor		9.92e4		NO	0.968	1.000	28.86			1.001	YES			0.831	
7	9 Aldrin		1.42e5		NO	1.02	1.000	30.99			1.001	YES			2.33	
8	10 Oxychlordane		3.43e4		NO	0.992	1.000	33.59			1.001	YES			8.33	
9	11 cis-Heptachlor Epoxide		4.56e4		NO	1.00	1.000	34.38			1.001	YES			6.06	
10	12 trans-Heptachlor Epox...		4.56e4		NO	0.255	1.000	34.87			1.015	YES			23.8	
11	13 trans-Chlordane (gam...		3.31e4		NO	1.08	1.000	35.30			1.001	YES			8.36	
12	14 trans-Nonachlor		3.76e4		NO	1.00	1.000	35.49			1.001	YES			8.02	
13	15 cis-Chlordane		3.76e4		NO	0.981	1.000	35.97			1.014	YES			8.20	
14	16 Endosulfan I (alpha)		2.46e4		NO	1.11	1.000	36.07			1.001	YES			9.08	
15	18 2,4'-DDE		8.20e5		NO	0.854	1.000	35.96			1.000	YES			2.53	
16	19 4,4'-DDE		6.65e5		NO	0.873	1.000	37.05			1.000	NO			2.89	
17	20 Dieldrin		8.96e4		NO	0.957	1.000	37.53			1.000	YES			2.85	
18	21 Endrin		5.10e4		NO	0.933	1.000	38.91			1.000	YES			5.26	
19	22 cis-Nonachlor		4.57e4		NO	0.956	1.000	39.22			1.000	YES			5.45	
20	23 Endosulfan II (beta)	4.80e2	1.26e4	3.87	YES	1.06	1.000	39.93	39.93	1.000	1.000	NO	35.7		17.9	18.8
21	24 2,4'-DDD		8.44e5		NO	0.915	1.000	38.17			1.000	YES			2.80	
22	25 2,4'-DDT		5.13e5		NO	0.921	1.000	39.31			1.000	YES			4.39	
23	26 4,4'-DDD		7.05e5		NO	1.00	1.000	39.43			1.000	YES			2.97	
24	27 4,4'-DDT		4.11e5		NO	0.986	1.000	40.50			1.000	NO			4.99	
25	28 Endosulfan Sulfate		1.87e4		NO	0.928	1.000	41.67			1.000	YES			15.0	
26	29 4,4'-Methoxychlor		3.36e6		NO	1.14	1.000	43.53			1.000	NO			4.13	
27	30 Mirex		1.61e5		NO	0.932	1.000	44.10			1.000	YES			3.02	
28	31 Endrin Aldehyde		3.25e5		NO	0.887	1.000	41.09			1.000	YES			9.75	
29	32 Endrin Ketone		2.63e5		NO	0.911	1.000	44.22			1.000	YES			11.6	
30	34 13C6-Hexachlorobenz...	4.69e5	1.33e6	1.29	NO	0.691	1.000	22.82	22.81	0.873	0.874	NO	510	51.0	0.146	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-12.qld

Last Altered: Tuesday, November 26, 2019 10:29:39 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:30:17 Pacific Standard Time

Name: 191122K3_12, Date: 23-Nov-2019, Time: 01:03:46, ID: B9K0146-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	2.72e5	1.33e6	0.77	NO	0.246	1.000	23.37	23.35	0.894	0.895	NO	830	83.0	3.64	
32	36 13C6-Lindane (gamma)	2.09e5	1.33e6	0.78	NO	0.189	1.000	26.63	26.62	1.019	1.020	NO	830	83.0	4.74	
33	37 13C6-Beta-BHC	1.66e5	1.33e6	0.79	NO	0.141	1.000	28.68	28.70	1.099	1.098	NO	886	88.6	6.37	
34	38 13C6-Delta-BHC	1.98e5	1.33e6	0.79	NO	0.164	1.000	30.38	30.39	1.164	1.163	NO	902	90.2	5.45	
35	39 13C10-Heptachlor	9.92e4	1.33e6	1.31	NO	0.0770	1.000	28.81	28.83	1.104	1.103	NO	967	96.7	1.98	
36	40 13C12-Aldrin	1.42e5	1.33e6	1.65	NO	0.122	1.000	30.93	30.96	1.185	1.184	NO	875	87.5	3.56	
37	41 13C10-Oxychlorane	3.43e4	1.33e6	1.63	NO	0.0283	1.000	33.53	33.57	1.285	1.284	NO	910	91.0	15.3	
38	42 13C10-cis-Heptachlor ...	4.56e4	1.33e6	1.69	NO	0.0366	1.000	34.32	34.36	1.315	1.314	NO	935	93.5	11.8	
39	43 13C10-trans-Chlordan...	3.31e4	1.33e6	1.63	NO	0.0292	1.000	35.23	35.28	1.351	1.349	NO	852	85.2	14.9	
40	44 13C10-trans-Nonachlor	3.76e4	1.33e6	1.58	NO	0.0333	1.000	35.42	35.47	1.358	1.356	NO	845	84.5	13.0	
41	45 13C9-Endosulfan I (al...	2.46e4	1.33e6	1.56	NO	0.0212	1.000	36.00	36.05	1.380	1.378	NO	869	86.9	20.4	
42	46 13C12-2,4'-DDE	8.20e5	1.33e6	1.58	NO	0.763	1.000	35.95	35.95	0.996	0.996	NO	806	80.6	4.13	
43	47 13C12-4,4'-DDE	6.65e5	1.33e6	1.59	NO	0.552	1.000	37.01	37.03	1.026	1.026	NO	903	90.3	5.71	
44	48 13C12-Dieldrin	8.96e4	1.33e6	1.54	NO	0.0749	1.000	37.51	37.51	1.039	1.039	NO	897	89.7	6.80	
45	49 13C12-Endrin	5.10e4	1.33e6	1.62	NO	0.0351	1.000	38.92	38.91	1.078	1.078	NO	1090	109	14.5	
46	50 13C10-cis-Nonachlor	4.57e4	1.33e6	1.66	NO	0.0389	1.000	39.20	39.20	1.086	1.086	NO	880	88.0	13.1	
47	51 13C9-Endosulfan II	1.26e4	1.33e6	1.56	NO	0.0112	1.000	39.93	39.93	1.106	1.106	NO	848	84.8	45.6	
48	52 13C12-2,4'-DDD	8.44e5	1.33e6	1.59	NO	0.588	1.000	38.10	38.17	1.461	1.459	NO	1080	108	3.81	
49	53 13C12-2,4'-DDT	5.13e5	1.33e6	1.61	NO	0.370	1.000	39.23	39.29	1.504	1.502	NO	1040	104	6.06	
50	54 13C12-4,4'-DDD	7.05e5	1.33e6	1.60	NO	0.473	1.000	39.35	39.41	1.509	1.507	NO	1120	112	4.74	
51	55 13C12-4,4'-DDT	4.11e5	1.33e6	1.58	NO	0.280	1.000	40.41	40.48	1.550	1.547	NO	1100	110	8.01	
52	56 13C9-Endosulfan Sulf...	1.87e4	1.33e6	1.55	NO	0.0173	1.000	41.66	41.67	1.154	1.154	NO	812	81.2	26.6	
53	57 13C12-Methoxychlor	3.36e6	1.33e6	21.49	NO	0.257	1.000	43.53	43.52	1.206	1.206	NO	9810	98.1	15.9	
54	58 13C10-Mirex	1.61e5	1.33e6	1.54	NO	0.164	1.000	44.08	44.07	1.221	1.221	NO	734	73.4	5.83	
55	59 13C12-Endrin Aldehyde	3.25e5	1.33e6	0.49	NO	0.0345	1.000	41.06	41.07	1.138	1.138	NO	7070	70.7	30.8	
56	60 13C12-Endrin Ketone	2.63e5	1.33e6	0.50	NO	0.0222	1.000	44.22	44.22	1.225	1.225	NO	8870	88.7	47.9	
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	1.36	

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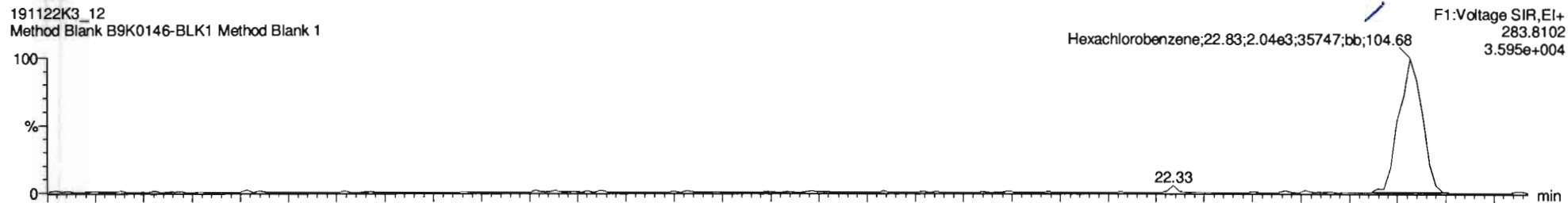
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Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

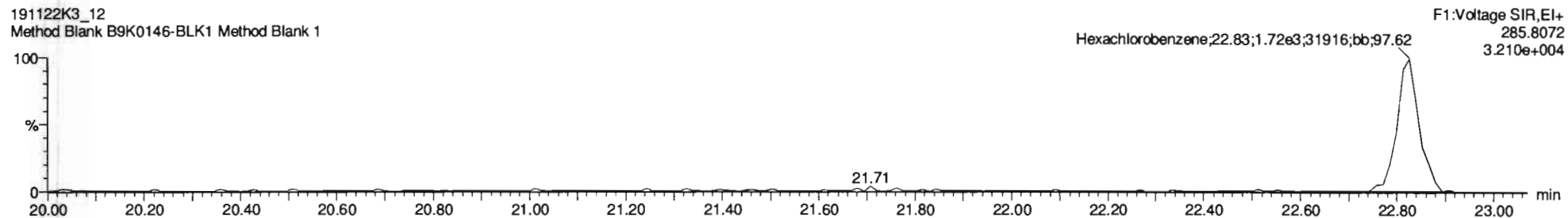
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Hexachlorobenzene

191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

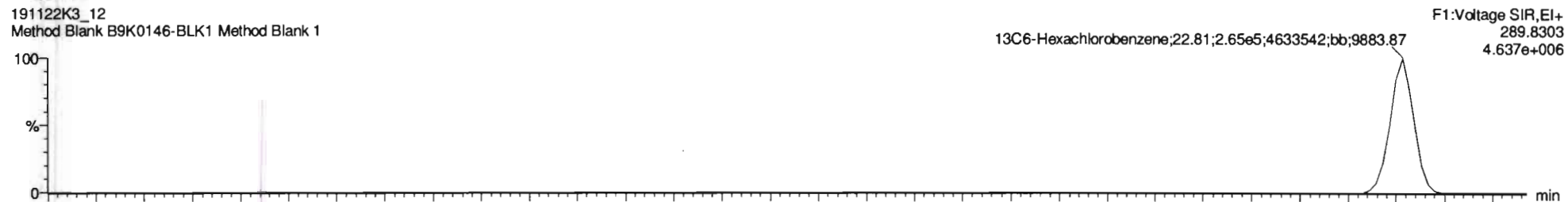


191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

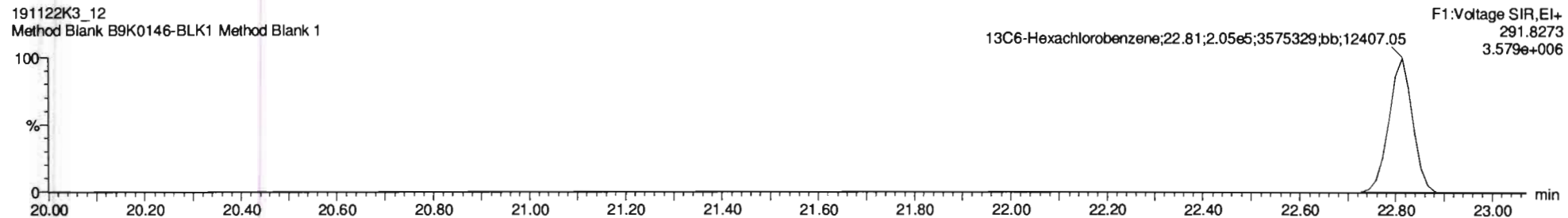


13C6-Hexachlorobenzene

191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1



Dataset: Untitled

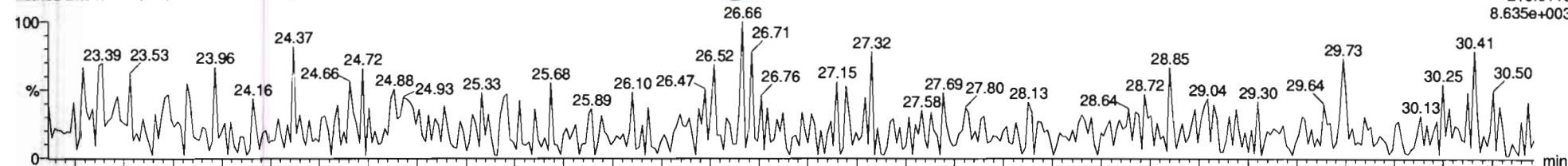
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Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_12, Date: 23-Nov-2019, Time: 01:03:46, ID: B9K0146-BLK1 Method Blank 1, Description: Method Blank

BHC Totals

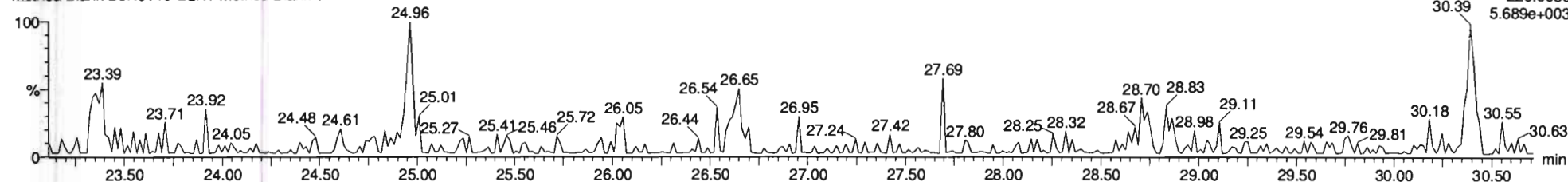
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F2:Voltage SIR,EI+
218.9116
8.635e+003



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

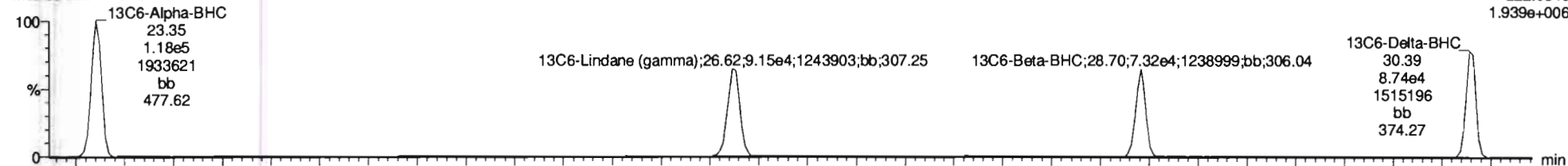
F2:Voltage SIR,EI+
220.9086
5.689e+003



BHC-isotopes

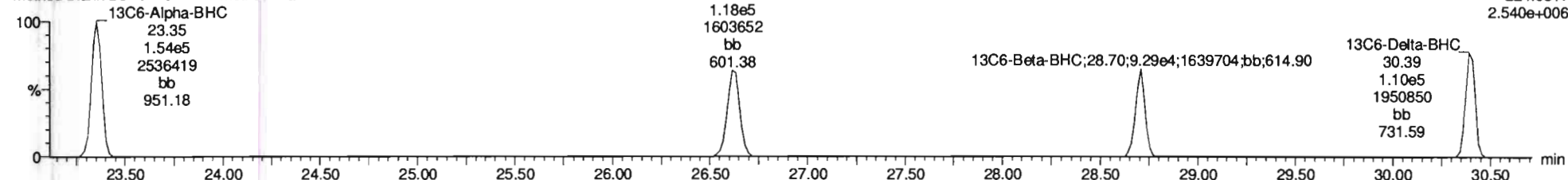
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F2:Voltage SIR,EI+
222.9346
1.939e+006



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F2:Voltage SIR,EI+
224.9317
2.540e+006



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

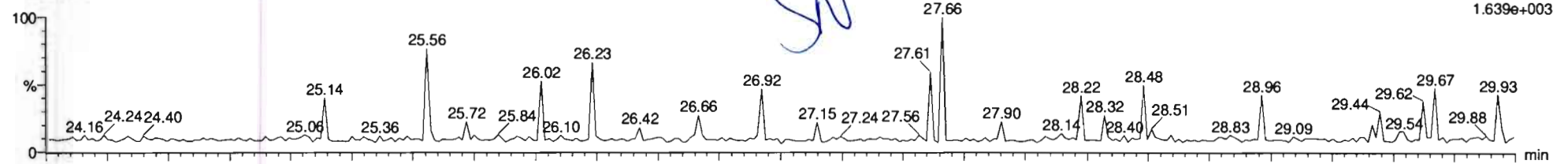
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Heptachlor

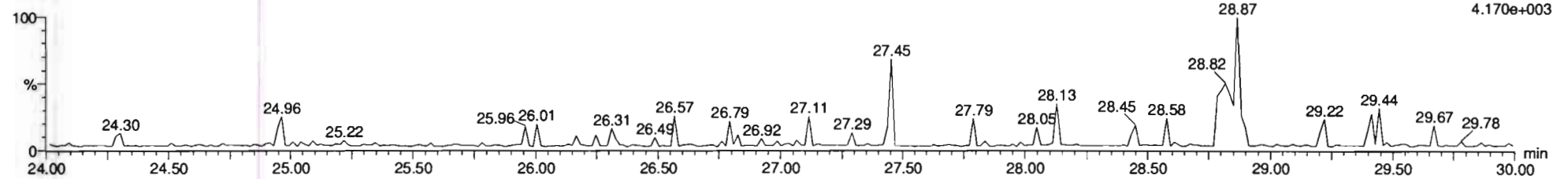
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F2:Voltage SIR,EI+
271.8102
1.639e+003



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

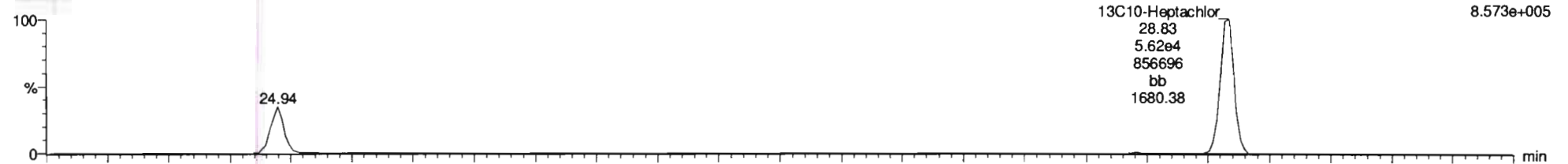
F2:Voltage SIR,EI+
273.8072
4.170e+003



13C10-Heptachlor

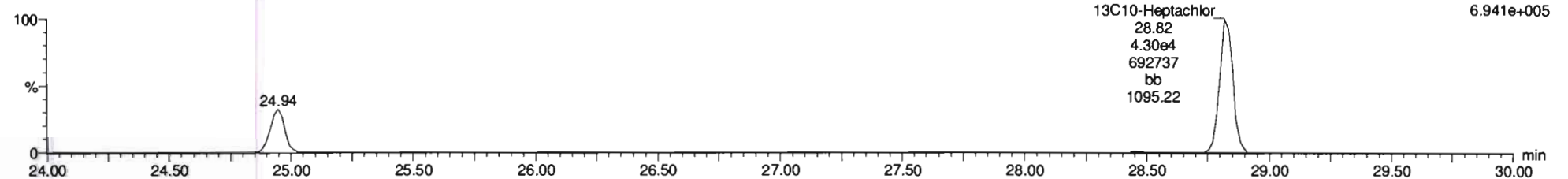
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F2:Voltage SIR,EI+
276.8269
8.573e+005



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F2:Voltage SIR,EI+
278.8240
6.941e+005



Dataset: Untitled

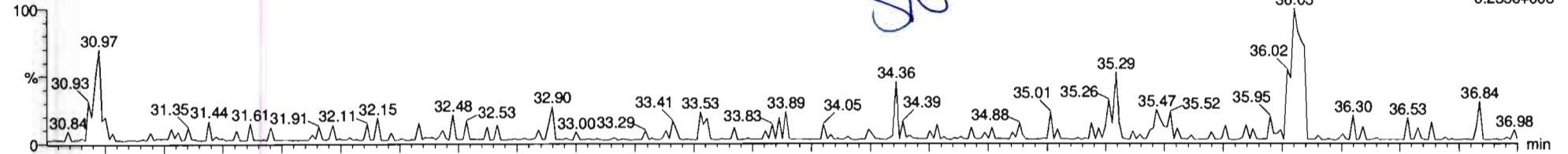
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Aldrin-EI

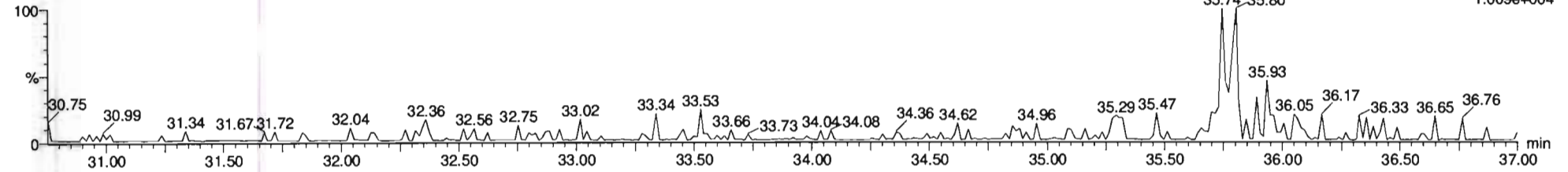
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F3:Voltage SIR,EI+
262.8569
6.255e+003



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

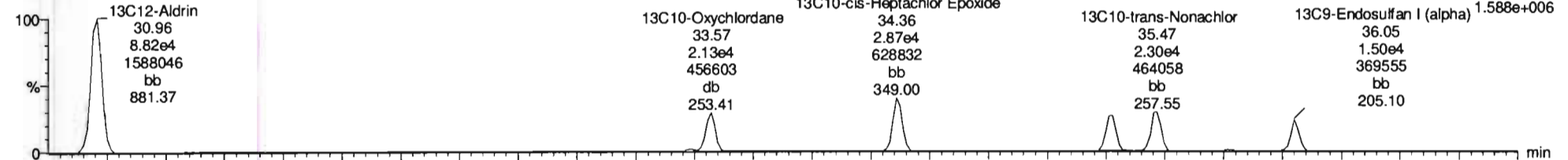
F3:Voltage SIR,EI+
264.8550
1.009e+004



Aldrin-EI-isotopes

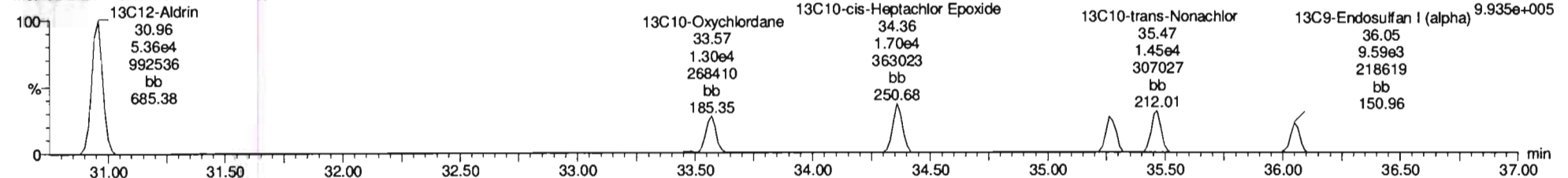
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F3:Voltage SIR,EI+
269.8804
1.588e+006



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F3:Voltage SIR,EI+
271.8775
9.935e+005



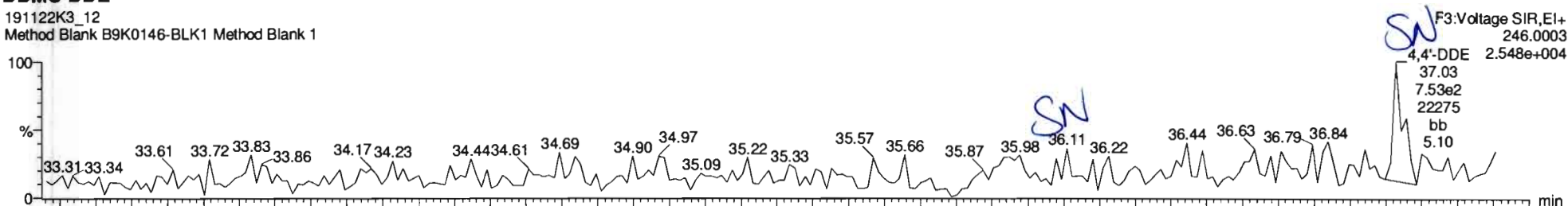
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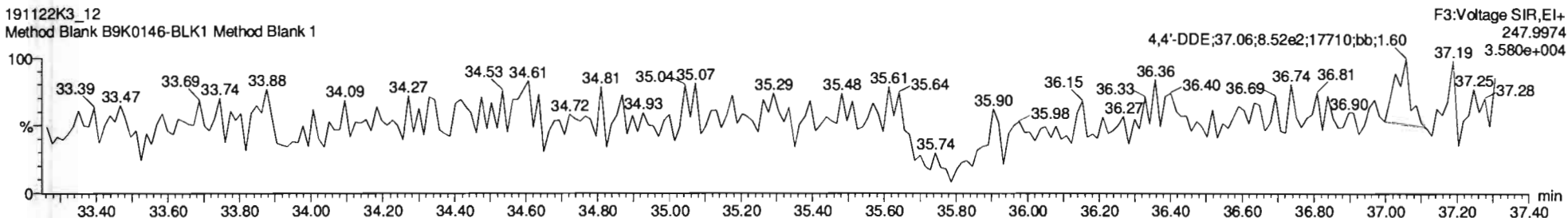
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DDMU-DDE

191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

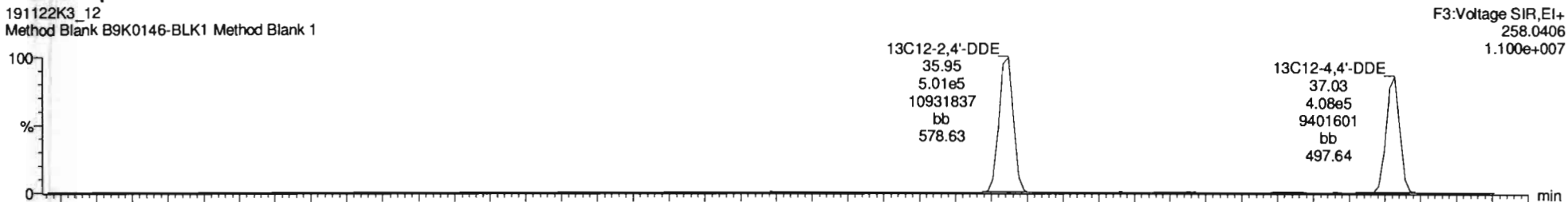


191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

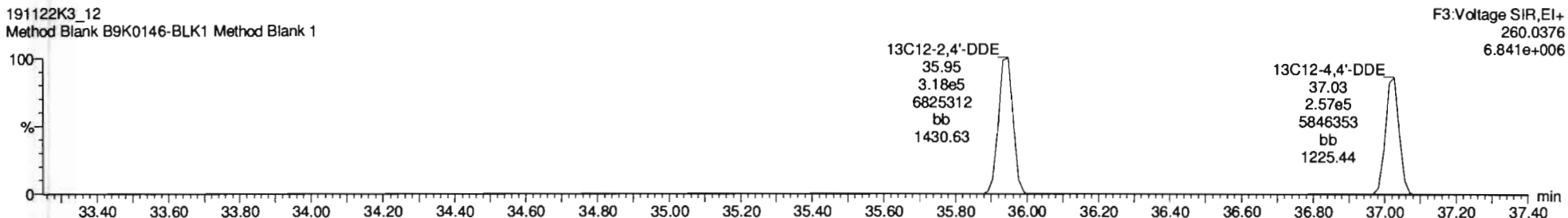


DDE-isotopes

191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1



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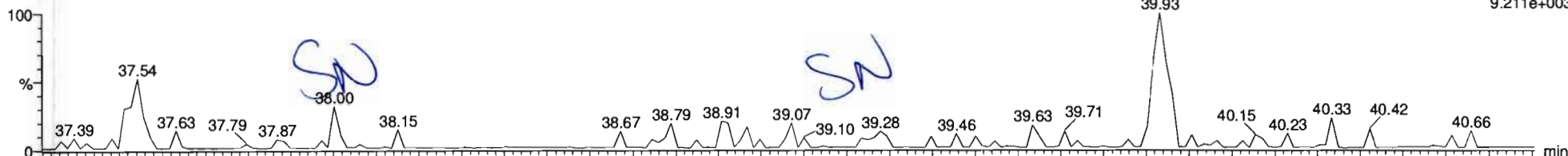
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Dieldrin-EI1

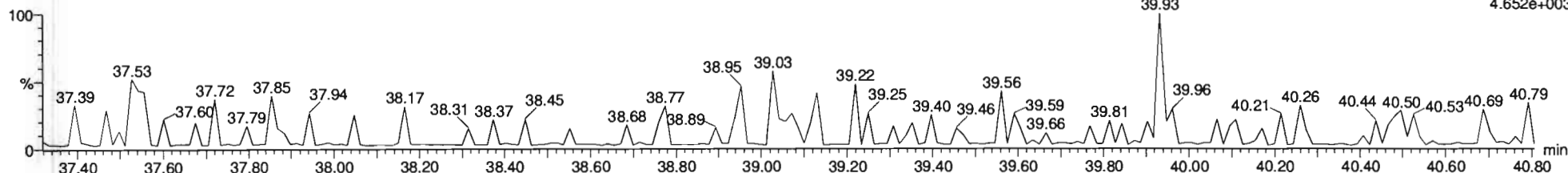
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F4:Voltage SIR,EI+
262.8569
9.211e+003



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

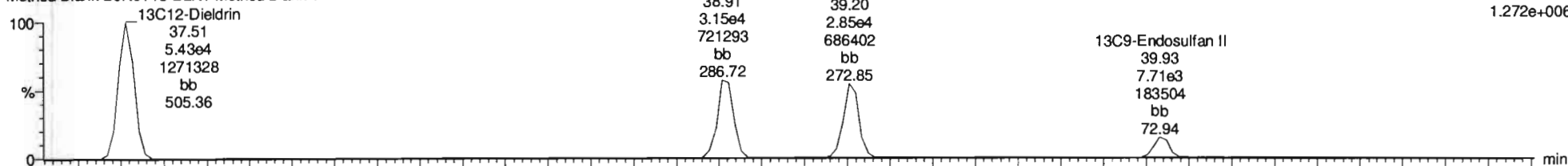
F4:Voltage SIR,EI+
264.8550
4.652e+003



Dieldrin-EI1-isotopes

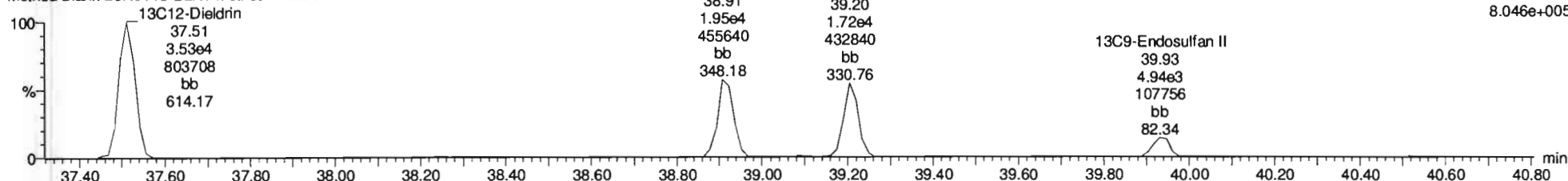
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F4:Voltage SIR,EI+
269.8804
1.272e+006



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F4:Voltage SIR,EI+
271.8775
8.046e+005



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

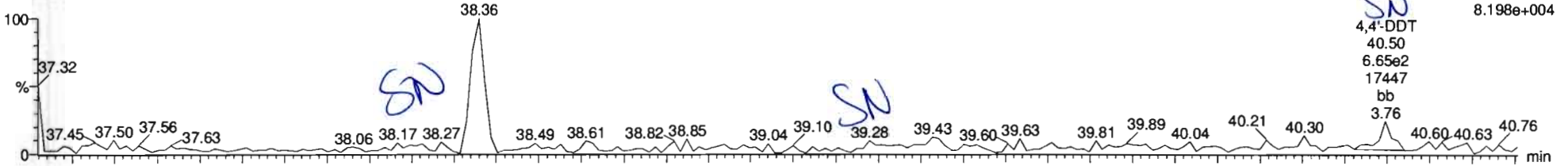
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DDD-DDT

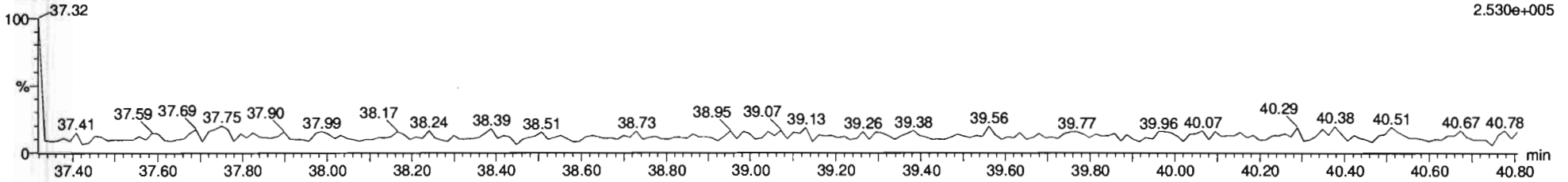
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F4:Voltage SIR,EI+
235.0081
8.198e+004



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

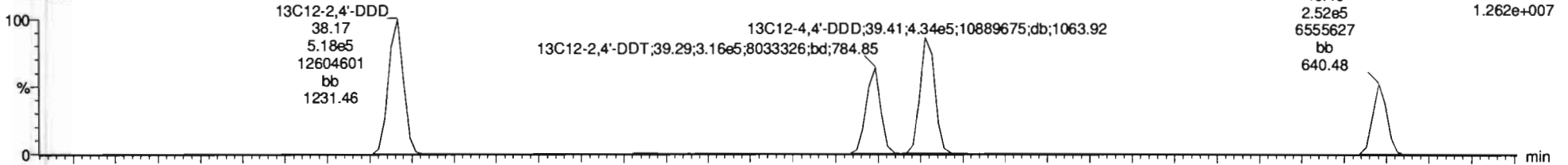
F4:Voltage SIR,EI+
237.0052
2.530e+005



DDD-DDT-isotopes

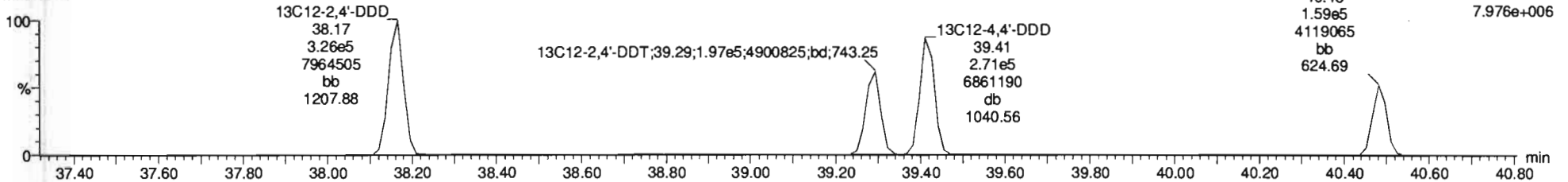
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

13C12-4,4'-DDT F4:Voltage SIR,EI+
40.48 247.0484
2.52e5 1.262e+007
6555627
bb
640.48



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

13C12-4,4'-DDT F4:Voltage SIR,EI+
40.48 249.0454
1.59e5 7.976e+006
4119065
bb
624.69



Dataset: Untitled

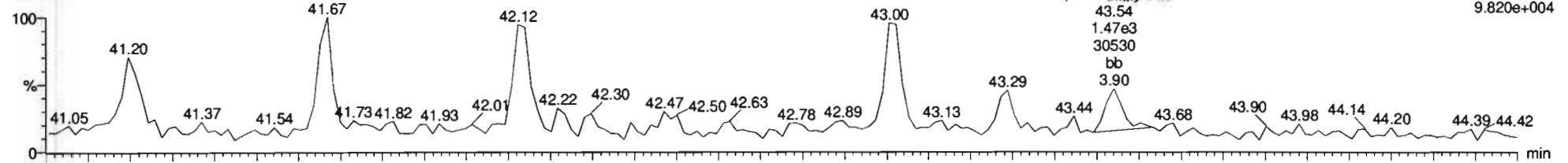
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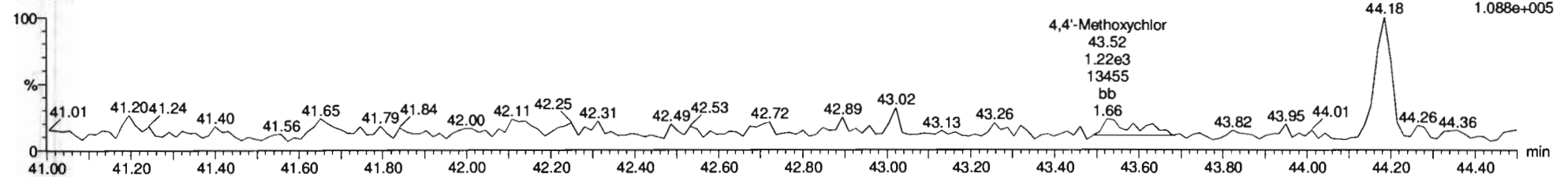
4,4'-Methoxychlor

191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1



F5:Voltage SIR,EI+
227.1072
9.820e+004

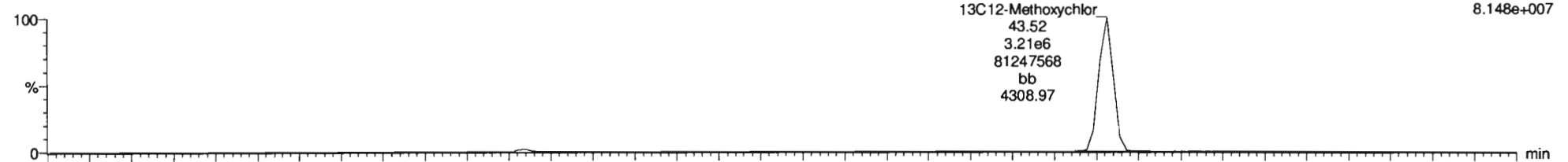
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1



F5:Voltage SIR,EI+
228.1106
1.088e+005

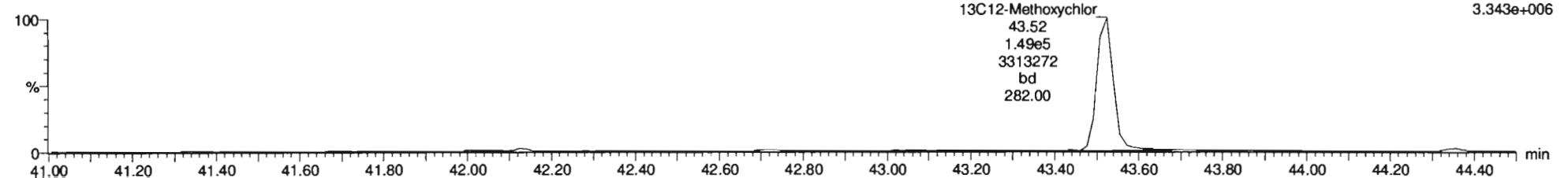
13C12-Methoxychlor

191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1



F5:Voltage SIR,EI+
239.1475
8.148e+007

191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1



F5:Voltage SIR,EI+
240.1508
3.343e+006

Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

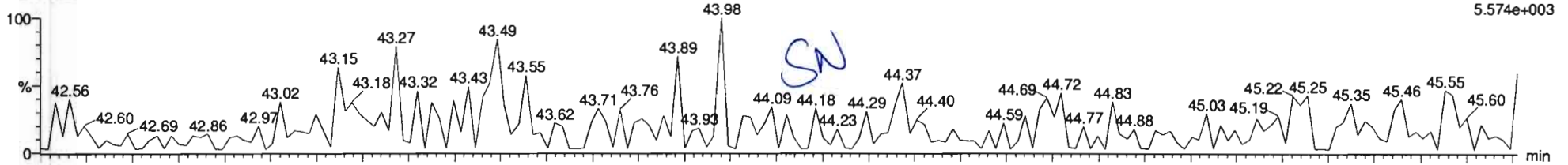
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Mirex

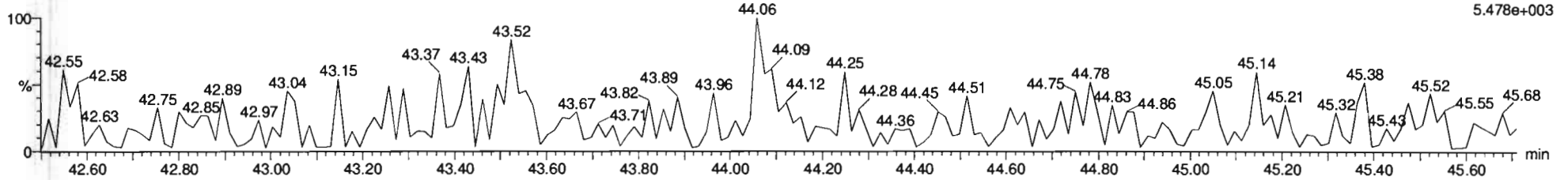
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F5:Voltage SIR,EI+
236.8413
5.574e+003



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

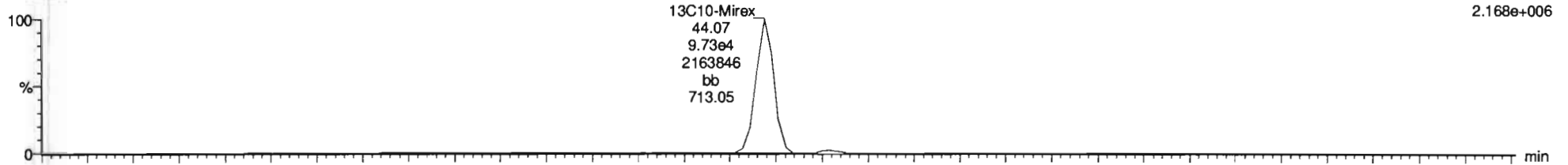
F5:Voltage SIR,EI+
238.8384
5.478e+003



13C10-Mirex

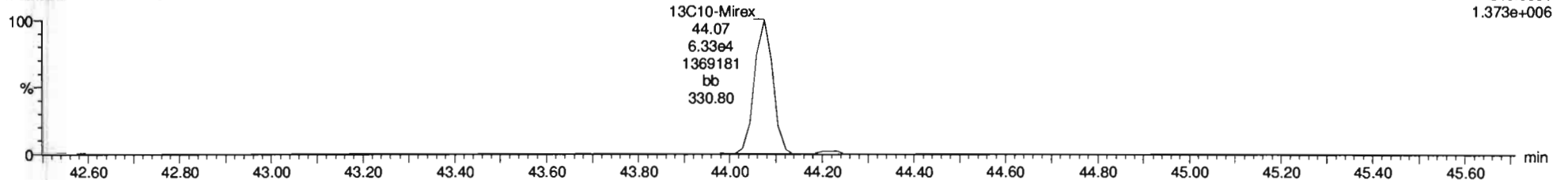
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F5:Voltage SIR,EI+
241.8581
2.168e+006



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F5:Voltage SIR,EI+
243.8551
1.373e+006



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

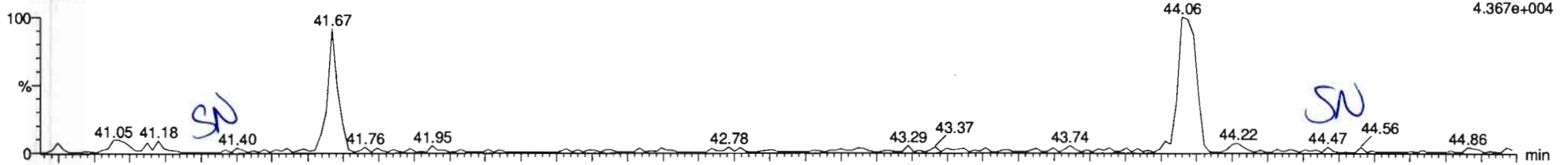
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EA-EK

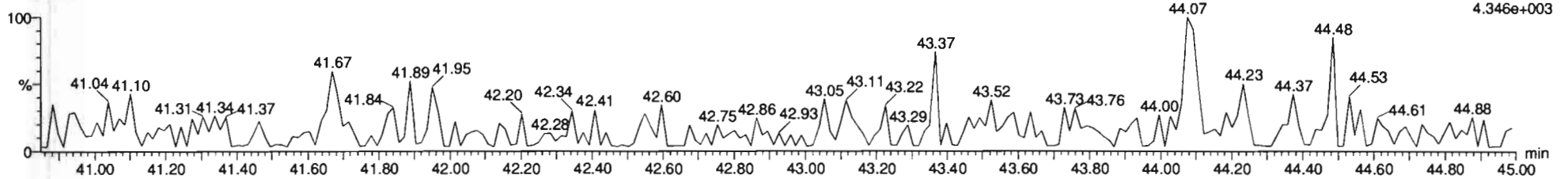
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F5:Voltage SIR,EI+
247.8521
4.367e+004



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

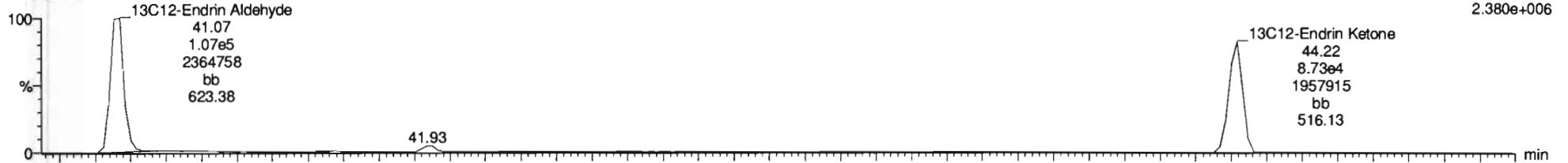
F5:Voltage SIR,EI+
249.8491
4.346e+003



EA-EK-isotopes

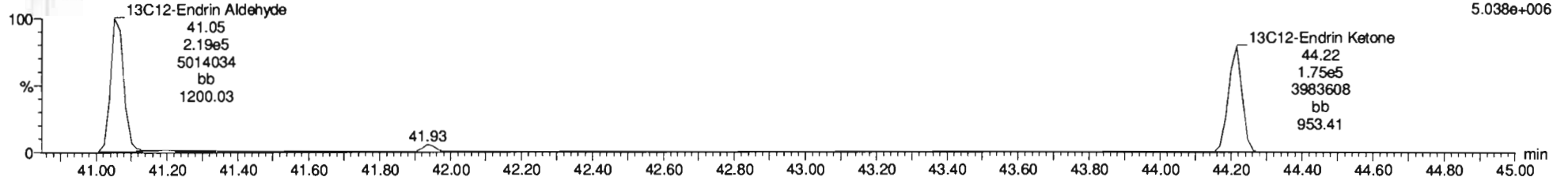
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F5:Voltage SIR,EI+
253.8722
2.380e+006



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F5:Voltage SIR,EI+
255.8693
5.038e+006



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

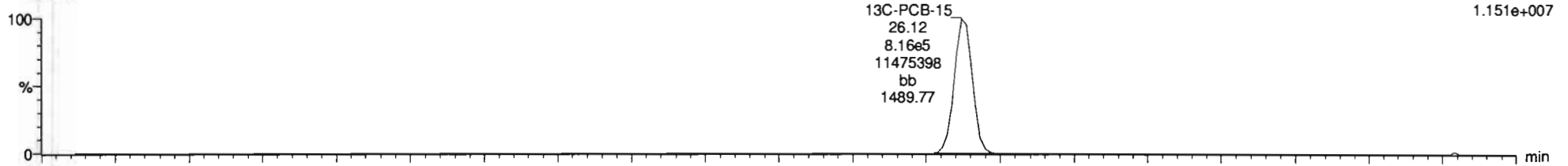
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Name: 191122K3_12, Date: 23-Nov-2019, Time: 01:03:46, ID: B9K0146-BLK1 Method Blank 1, Description: Method Blank

13C-PCB-15

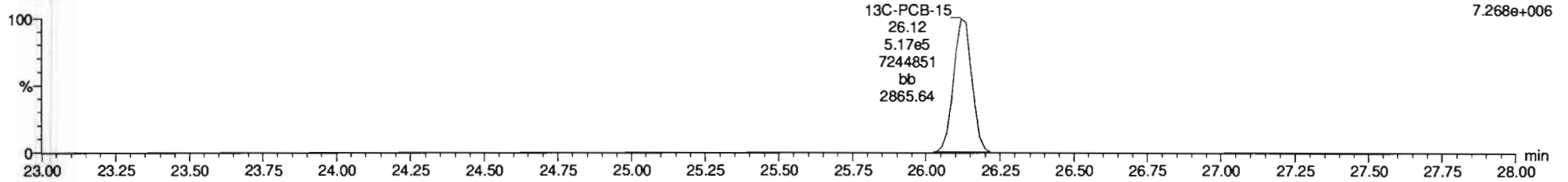
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F2:Voltage SIR,EI+
234.0406
1.151e+007



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

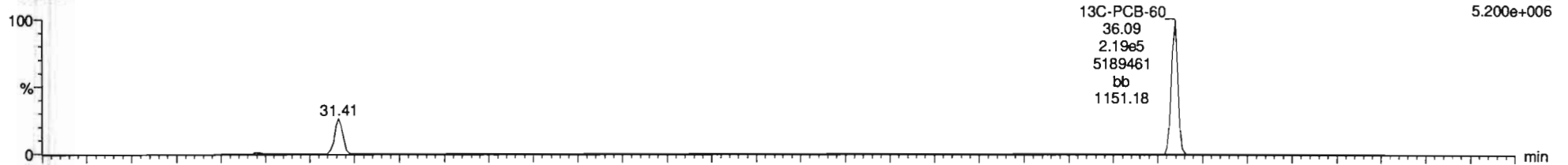
F2:Voltage SIR,EI+
236.0376
7.268e+006



13C-PCB-60

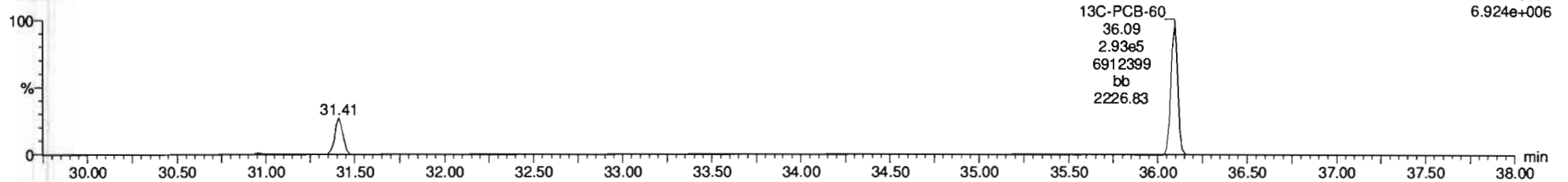
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F3:Voltage SIR,EI+
301.9626
5.200e+006



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F3:Voltage SIR,EI+
303.9597
6.924e+006



Dataset: Untitled

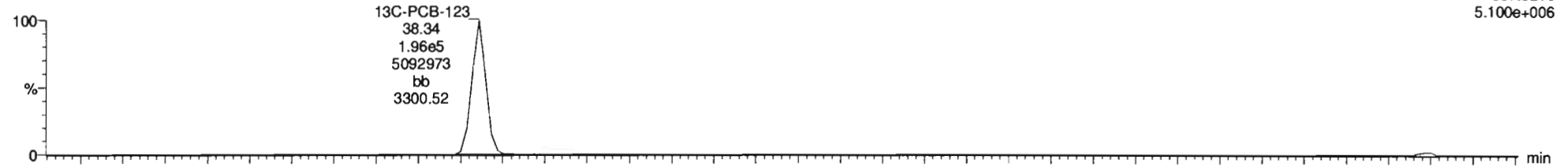
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Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_12, Date: 23-Nov-2019, Time: 01:03:46, ID: B9K0146-BLK1 Method Blank 1, Description: Method Blank

13C-PCB-123

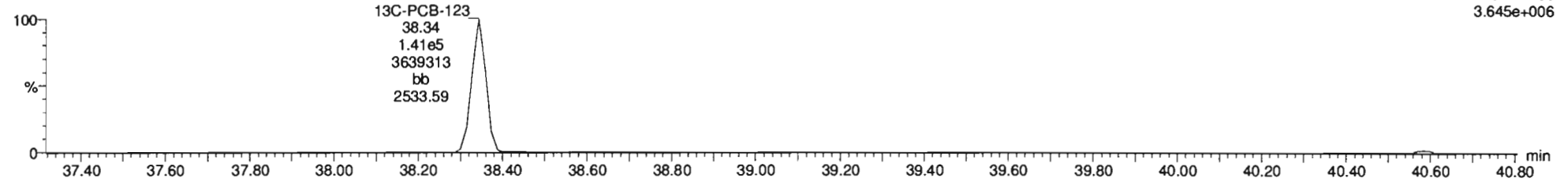
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F4:Voltage SIR,EI+
337.9210
5.100e+006



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

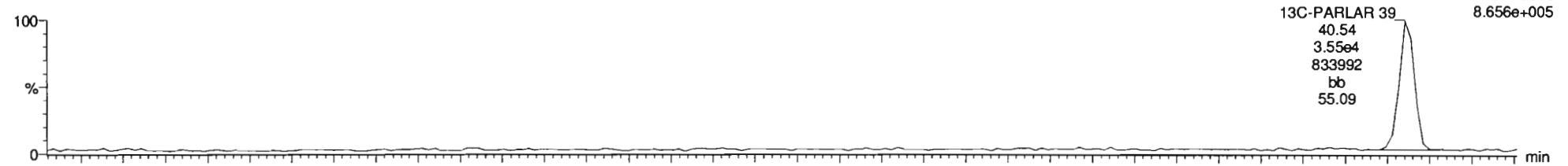
F4:Voltage SIR,EI+
339.9180
3.645e+006



13C-PARLAR 39

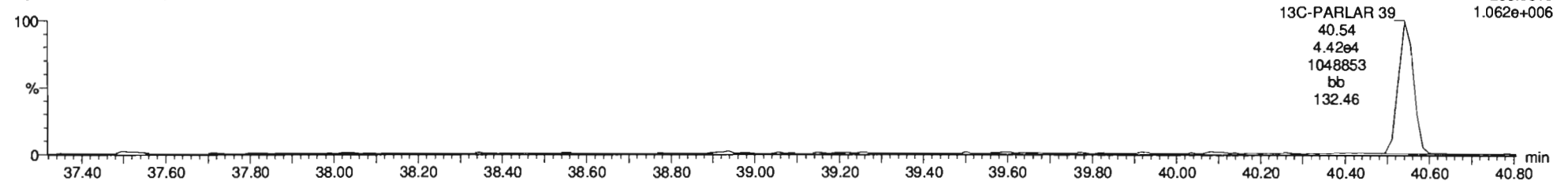
191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F4:Voltage SIR,EI+
251.9648
8.656e+005



191122K3_12
Method Blank B9K0146-BLK1 Method Blank 1

F4:Voltage SIR,EI+
253.9619
1.062e+006



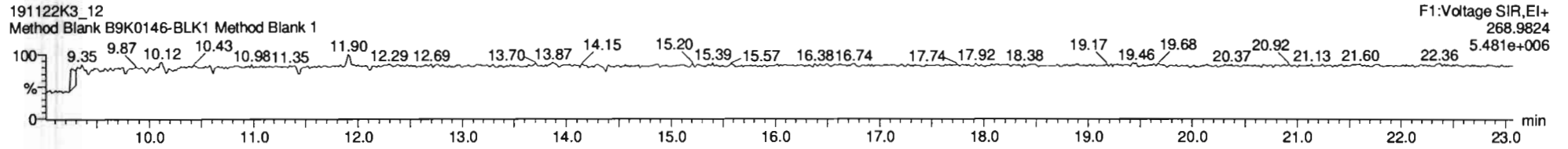
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Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

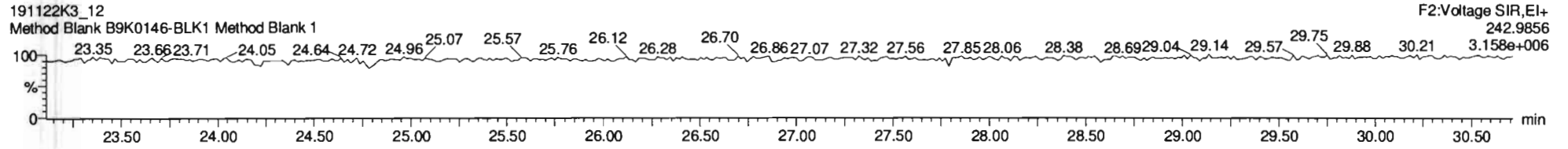
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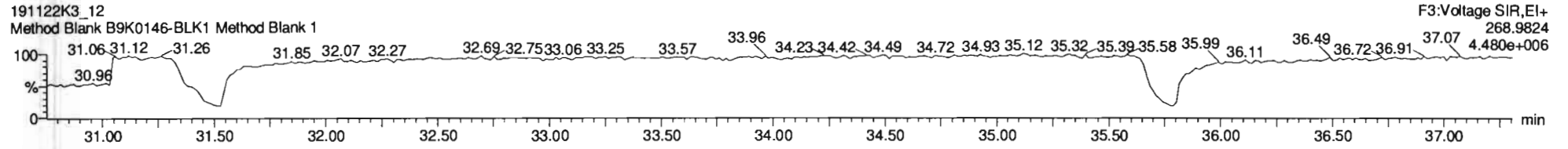
PFK1



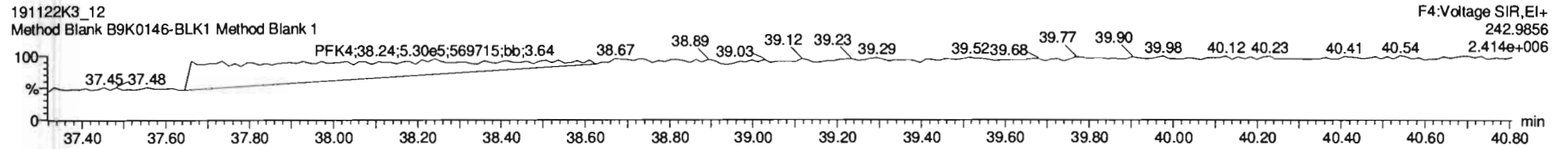
PFK2



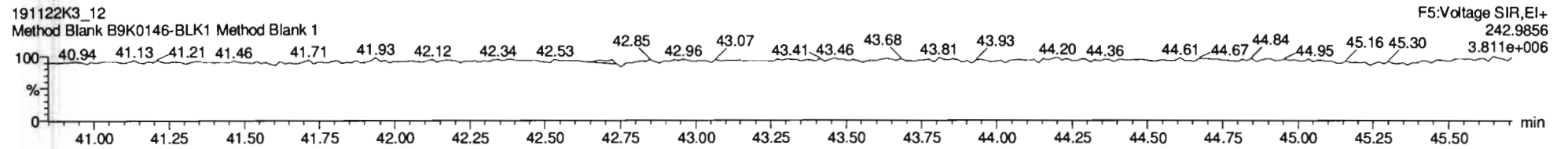
PFK3



PFK4



PFK5



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-9.qld

Last Altered: Tuesday, November 26, 2019 10:33:36 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:33:55 Pacific Standard Time

GRB 11/26/19

Ci 11/26/19

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_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-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	3.59e5	3.61e5	1.22	NO	0.874	1.000	22.83	22.83	1.001	1.001	NO	1140		0.333	1140
2	3 Alpha-BHC	2.01e5	2.36e5	2.18	NO	0.760	1.000	23.40	23.39	1.001	1.002	NO	1120		3.72	1120
3	4 Lindane (gamma-BHC)	1.60e5	1.87e5	2.13	NO	0.744	1.000	26.65	26.65	1.001	1.001	NO	1150		6.24	1150
4	5 Beta-BHC	1.44e5	1.44e5	2.13	NO	0.896	1.000	28.71	28.74	1.001	1.000	NO	1120		5.35	1120
5	6 Delta-BHC	1.60e5	1.70e5	2.18	NO	0.837	1.000	30.41	30.42	1.001	1.001	NO	1130		4.76	1130
6	7 Heptachlor	9.51e4	8.94e4	1.10	NO	0.968	1.000	28.86	28.86	1.001	1.001	NO	1100		2.40	1100
7	9 Aldrin	1.30e5	1.12e5	1.67	NO	1.02	1.000	30.99	30.99	1.001	1.001	NO	1130		2.42	1130
8	10 Oxychlorane	3.62e4	3.10e4	1.64	NO	0.992	1.000	33.59	33.60	1.001	1.001	NO	1170		7.73	1170
9	11 cis-Heptachlor Epoxide	4.66e4	4.18e4	1.65	NO	1.00	1.000	34.38	34.39	1.001	1.001	NO	1110		5.66	1110
10	12 trans-Heptachlor Epox...	1.14e4	4.18e4	1.60	NO	0.255	1.000	34.87	34.88	1.015	1.015	NO	1070		22.2	1070
11	13 trans-Chlordane (gam...	3.60e4	3.17e4	1.62	NO	1.08	1.000	35.30	35.29	1.000	1.001	NO	1050		6.64	1050
12	14 trans-Nonachlor	3.81e4	3.49e4	1.57	NO	1.00	1.000	35.49	35.48	1.000	1.001	NO	1090		6.66	1090
13	15 cis-Chlordane	3.31e4	3.49e4	1.58	NO	0.981	1.000	35.97	35.98	1.014	1.014	NO	968		6.80	968
14	16 Endosulfan I (alpha)	2.62e4	2.23e4	1.59	NO	1.11	1.000	36.07	36.08	1.001	1.001	NO	1060		8.11	1060
15	18 2,4'-DDE	7.04e5	7.26e5	1.33	NO	0.854	1.000	35.94	35.96	1.001	1.000	NO	1130		2.89	1130
16	19 4,4'-DDE	5.76e5	6.00e5	1.37	NO	0.873	1.000	37.03	37.04	1.001	1.000	NO	1100		3.42	1100
17	20 Dieldrin	8.46e4	7.98e4	1.52	NO	0.957	1.000	37.53	37.53	1.000	1.000	NO	1110		4.54	1110
18	21 Endrin	5.19e4	5.20e4	1.60	NO	0.933	1.000	38.92	38.94	1.000	1.000	NO	1070		7.60	1070
19	22 cis-Nonachlor	4.45e4	4.33e4	1.50	NO	0.956	1.000	39.22	39.22	1.000	1.000	NO	1080		9.10	1080
20	23 Endosulfan II (beta)	1.46e4	1.34e4	1.64	NO	1.06	1.000	39.93	39.95	1.000	1.000	NO	1020		23.5	1020
21	24 2,4'-DDD	7.51e5	7.46e5	1.60	NO	0.915	1.000	38.17	38.18	1.000	1.000	NO	1100		3.90	1100
22	25 2,4'-DDT	5.09e5	4.84e5	1.62	NO	0.921	1.000	39.31	39.31	1.000	1.000	NO	1140		5.69	1140
23	26 4,4'-DDD	7.03e5	6.52e5	1.59	NO	1.00	1.000	39.43	39.43	1.000	1.000	NO	1070		3.61	1070
24	27 4,4'-DDT	4.35e5	4.12e5	1.63	NO	0.986	1.000	40.50	40.50	1.000	1.000	NO	1070		5.73	1070
25	28 Endosulfan Sulfate	1.65e4	1.62e4	1.73	NO	0.928	1.000	41.67	41.68	1.000	1.000	NO	1090		20.1	1090
26	29 4,4'-Methoxychlor	4.28e5	3.24e6	5.96	NO	1.14	1.000	43.53	43.54	1.000	1.000	NO	1160		6.39	1160
27	30 Mirex	1.58e5	1.55e5	1.60	NO	0.932	1.000	44.10	44.09	1.000	1.000	NO	1100		5.25	1100
28	31 Endrin Aldehyde	2.91e4	2.84e5	0.62	NO	0.887	1.000	41.07	41.09	1.001	1.000	NO	1160		18.4	1160
29	32 Endrin Ketone	2.15e4	2.36e5	0.61	NO	0.911	1.000	44.22	44.23	1.000	1.000	NO	1000		22.7	1000
30	34 13C6-Hexachlorobenz...	3.61e5	1.26e6	1.28	NO	0.691	1.000	22.82	22.81	0.873	0.874	NO	414	41.4	0.154	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-9.qld

Last Altered: Tuesday, November 26, 2019 10:33:36 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:33:55 Pacific Standard Time

Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-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	2.36e5	1.26e6	0.79	NO	0.246	1.000	23.37	23.35	0.894	0.895	NO	760	76.0	4.54	
32	36 13C6-Lindane (gamma)	1.87e5	1.26e6	0.78	NO	0.189	1.000	26.63	26.62	1.019	1.020	NO	784	78.4	5.90	
33	37 13C6-Beta-BHC	1.44e5	1.26e6	0.75	NO	0.141	1.000	28.68	28.70	1.099	1.098	NO	811	81.1	7.93	
34	38 13C6-Delta-BHC	1.70e5	1.26e6	0.80	NO	0.164	1.000	30.38	30.39	1.164	1.163	NO	819	81.9	6.79	
35	39 13C10-Heptachlor	8.94e4	1.26e6	1.35	NO	0.0770	1.000	28.81	28.83	1.104	1.103	NO	921	92.1	2.38	
36	40 13C12-Aldrin	1.12e5	1.26e6	1.71	NO	0.122	1.000	30.93	30.96	1.185	1.184	NO	732	73.2	4.22	
37	41 13C10-Oxychlorane	3.10e4	1.26e6	1.78	NO	0.0283	1.000	33.53	33.57	1.285	1.284	NO	870	87.0	18.1	
38	42 13C10-cis-Heptachlor ...	4.18e4	1.26e6	1.61	NO	0.0366	1.000	34.32	34.36	1.315	1.314	NO	906	90.6	14.0	
39	43 13C10-trans-Chlordan...	3.17e4	1.26e6	1.54	NO	0.0292	1.000	35.23	35.28	1.351	1.349	NO	863	86.3	17.6	
40	44 13C10-trans-Nonachlor	3.49e4	1.26e6	1.56	NO	0.0333	1.000	35.42	35.47	1.358	1.356	NO	829	82.9	15.4	
41	45 13C9-Endosulfan I (al...	2.23e4	1.26e6	1.55	NO	0.0212	1.000	36.00	36.05	1.380	1.378	NO	836	83.6	24.2	
42	46 13C12-2,4'-DDE	7.26e5	1.26e6	1.60	NO	0.763	1.000	35.95	35.93	0.996	0.996	NO	755	75.5	4.99	
43	47 13C12-4,4'-DDE	6.00e5	1.26e6	1.60	NO	0.552	1.000	37.01	37.01	1.025	1.026	NO	862	86.2	6.90	
44	48 13C12-Dieldrin	7.98e4	1.26e6	1.59	NO	0.0749	1.000	37.51	37.51	1.039	1.039	NO	845	84.5	6.63	
45	49 13C12-Endrin	5.20e4	1.26e6	1.60	NO	0.0351	1.000	38.92	38.92	1.078	1.078	NO	1170	117	14.2	
46	50 13C10-cis-Nonachlor	4.33e4	1.26e6	1.67	NO	0.0389	1.000	39.20	39.20	1.086	1.086	NO	881	88.1	12.8	
47	51 13C9-Endosulfan II	1.34e4	1.26e6	1.72	NO	0.0112	1.000	39.93	39.93	1.106	1.106	NO	953	95.3	44.4	
48	52 13C12-2,4'-DDD	7.46e5	1.26e6	1.57	NO	0.588	1.000	38.10	38.17	1.461	1.459	NO	1010	101	4.37	
49	53 13C12-2,4'-DDT	4.84e5	1.26e6	1.59	NO	0.370	1.000	39.23	39.29	1.504	1.502	NO	1040	104	6.94	
50	54 13C12-4,4'-DDD	6.52e5	1.26e6	1.60	NO	0.473	1.000	39.35	39.41	1.509	1.507	NO	1090	109	5.43	
51	55 13C12-4,4'-DDT	4.12e5	1.26e6	1.60	NO	0.280	1.000	40.41	40.48	1.550	1.547	NO	1170	117	9.17	
52	56 13C9-Endosulfan Sulf...	1.62e4	1.26e6	1.44	NO	0.0173	1.000	41.66	41.67	1.154	1.154	NO	745	74.5	34.7	
53	57 13C12-Methoxychlor	3.24e6	1.26e6	22.37	NO	0.257	1.000	43.53	43.52	1.206	1.206	NO	10000	100	22.3	
54	58 13C10-Mirex	1.55e5	1.26e6	1.48	NO	0.164	1.000	44.08	44.07	1.221	1.221	NO	748	74.8	5.88	
55	59 13C12-Endrin Aldehyde	2.84e5	1.26e6	0.47	NO	0.0345	1.000	41.06	41.05	1.137	1.138	NO	6530	65.3	38.8	
56	60 13C12-Endrin Ketone	2.36e5	1.26e6	0.48	NO	0.0222	1.000	44.22	44.22	1.225	1.225	NO	8410	84.1	60.3	
57	62 13C-PCB-15	1.26e6	1.26e6	1.56	NO	1.00	1.000	26.18	26.12	1.000	1.000	NO	1000	100	0.888	

Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

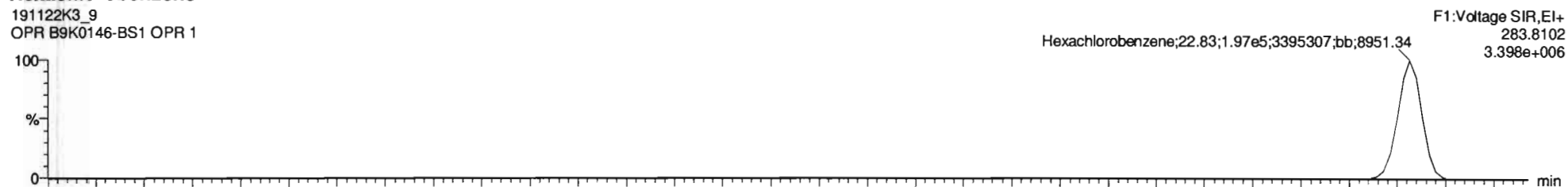
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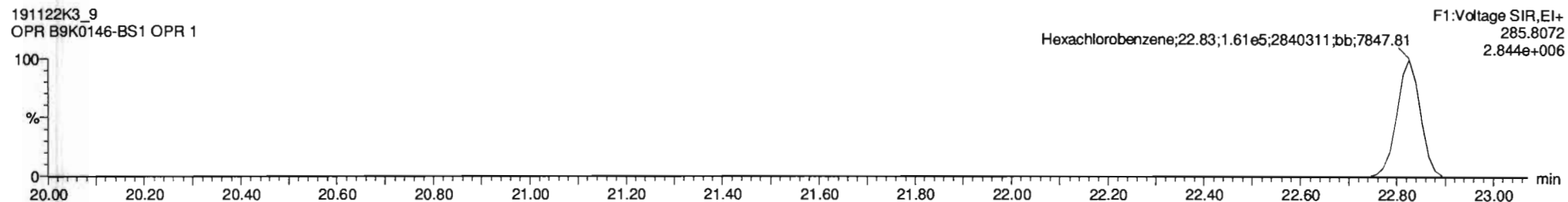
Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

Hexachlorobenzene

191122K3_9
OPR B9K0146-BS1 OPR 1

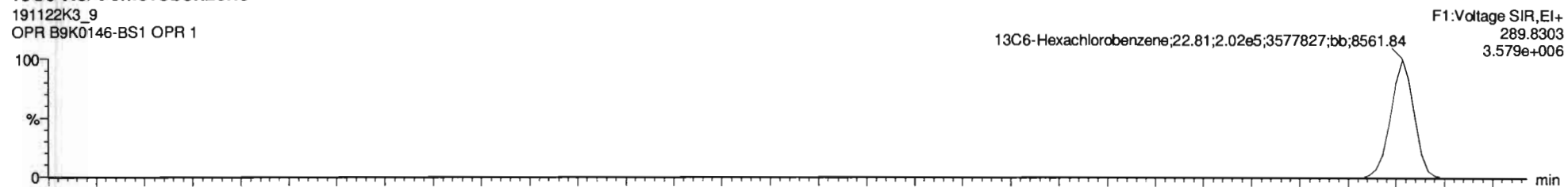


191122K3_9
OPR B9K0146-BS1 OPR 1

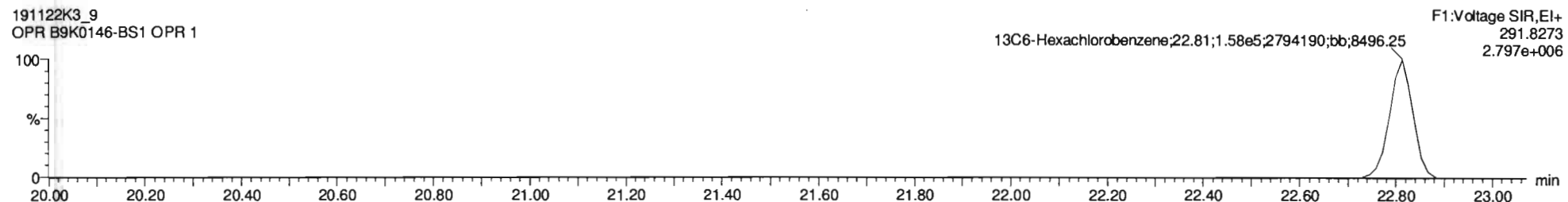


13C6-Hexachlorobenzene

191122K3_9
OPR B9K0146-BS1 OPR 1



191122K3_9
OPR B9K0146-BS1 OPR 1

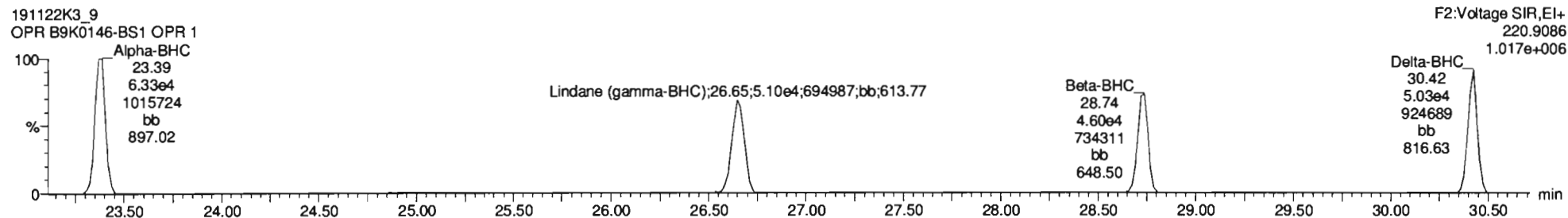
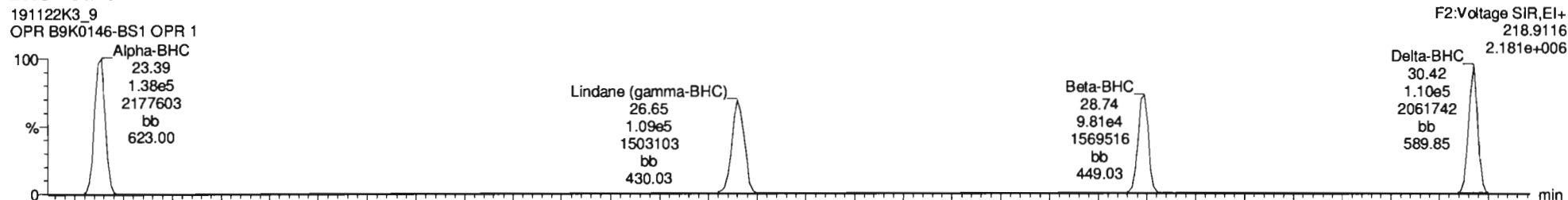


Dataset: Untitled

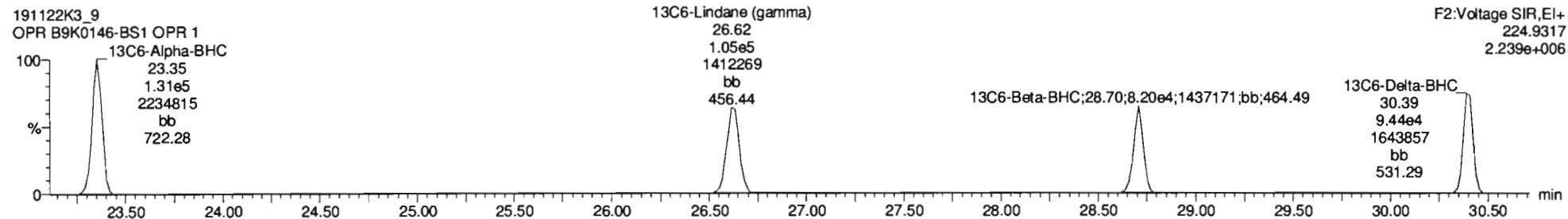
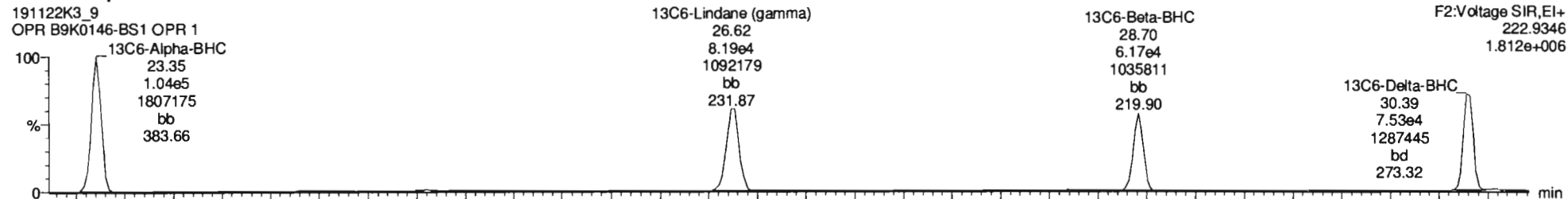
Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time
Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

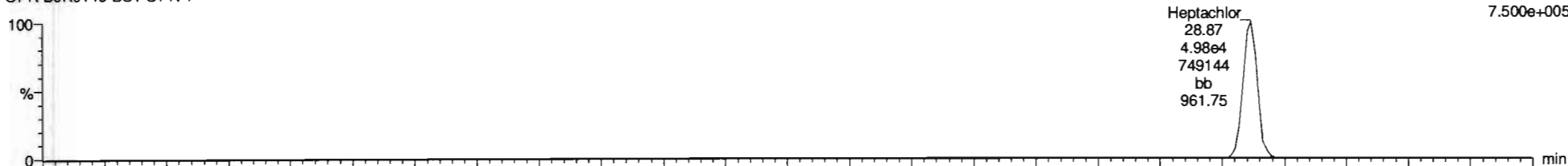
Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

Heptachlor

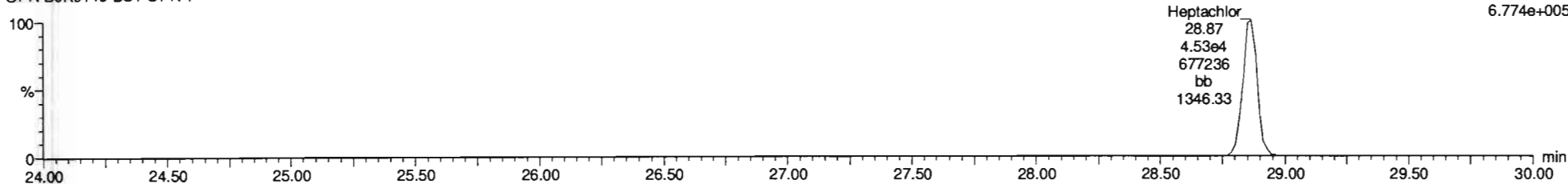
191122K3_9
OPR B9K0146-BS1 OPR 1

F2:Voltage SIR,EI+
271.8102
7.500e+005



191122K3_9
OPR B9K0146-BS1 OPR 1

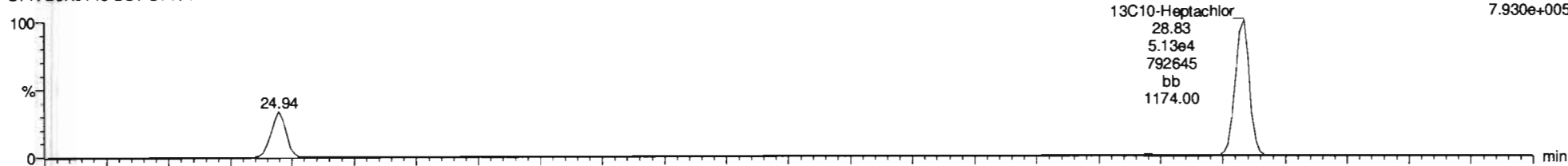
F2:Voltage SIR,EI+
273.8072
6.774e+005



13C10-Heptachlor

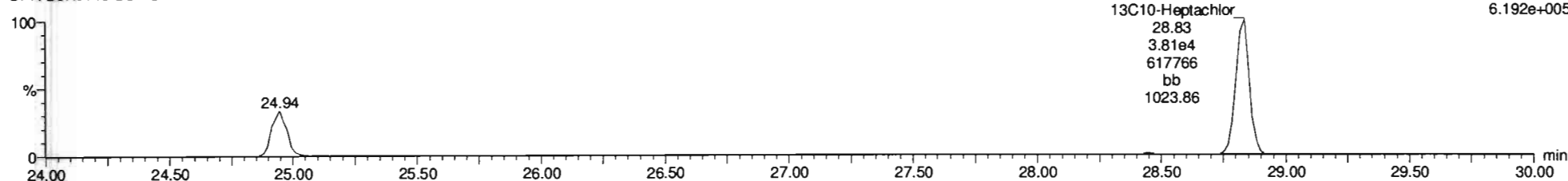
191122K3_9
OPR B9K0146-BS1 OPR 1

F2:Voltage SIR,EI+
276.8269
7.930e+005



191122K3_9
OPR B9K0146-BS1 OPR 1

F2:Voltage SIR,EI+
278.8240
6.192e+005



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

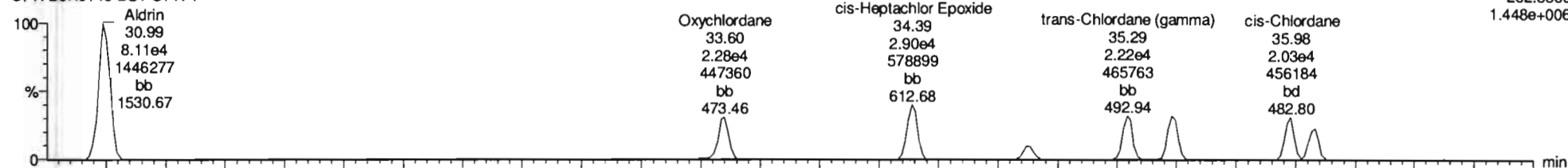
Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

Aldrin-EI

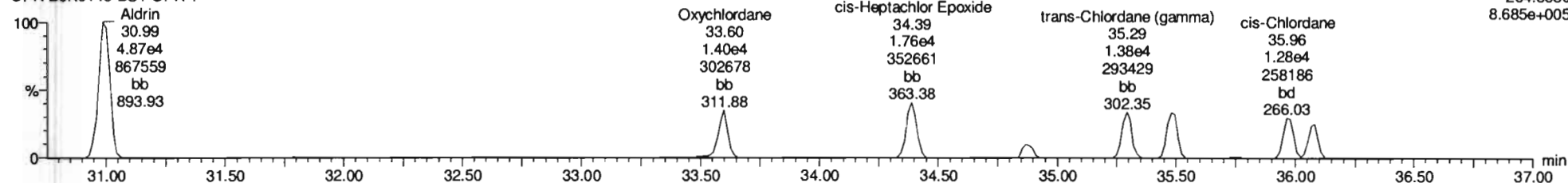
191122K3_9
OPR B9K0146-BS1 OPR 1

F3:Voltage SIR,EI+
262.8569
1.448e+006



191122K3_9
OPR B9K0146-BS1 OPR 1

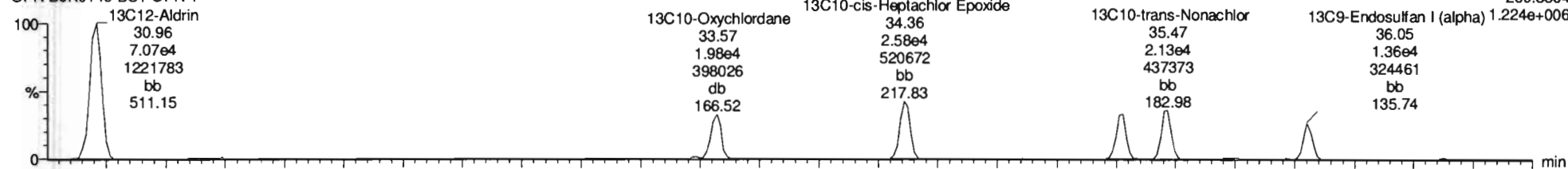
F3:Voltage SIR,EI+
264.8550
8.685e+005



Aldrin-EI-isotopes

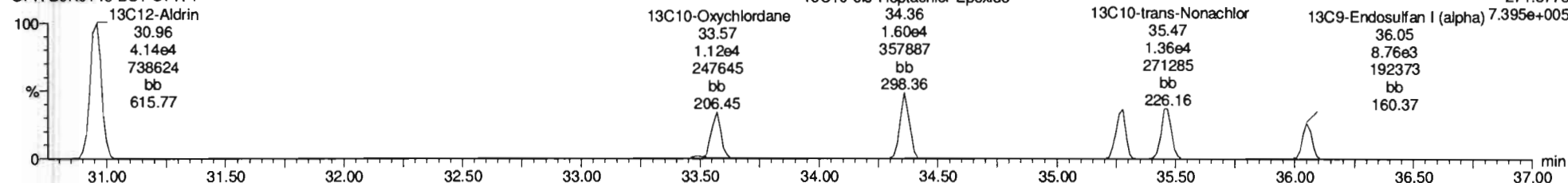
191122K3_9
OPR B9K0146-BS1 OPR 1

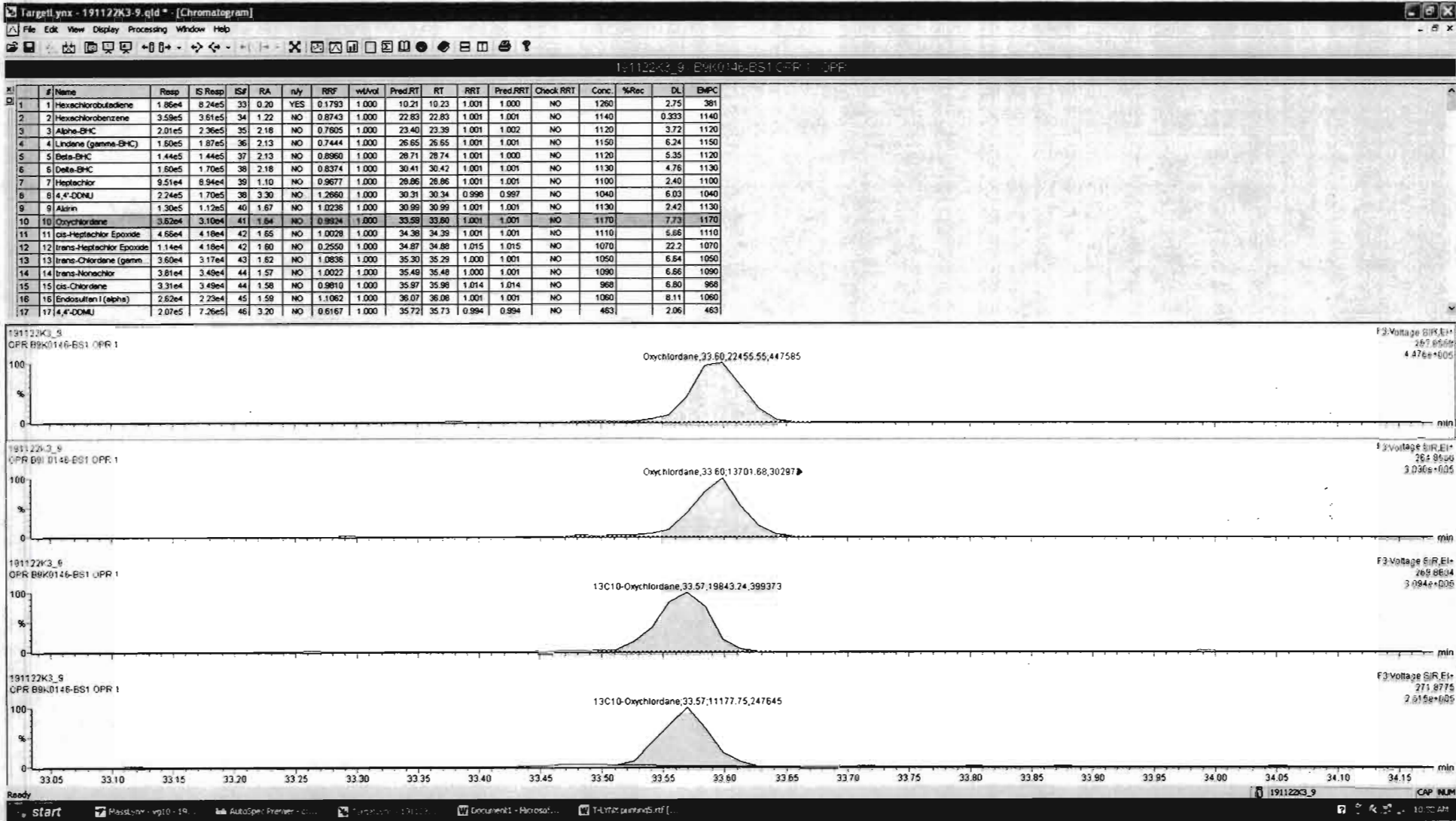
F3:Voltage SIR,EI+
269.8804
1.224e+006



191122K3_9
OPR B9K0146-BS1 OPR 1

F3:Voltage SIR,EI+
271.8775
7.395e+005





Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

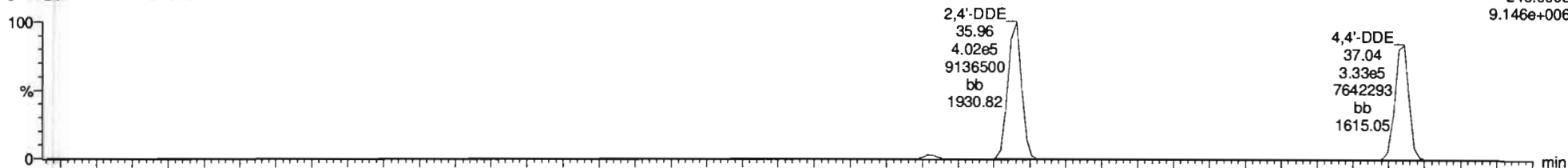
Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

DDMU-DDE

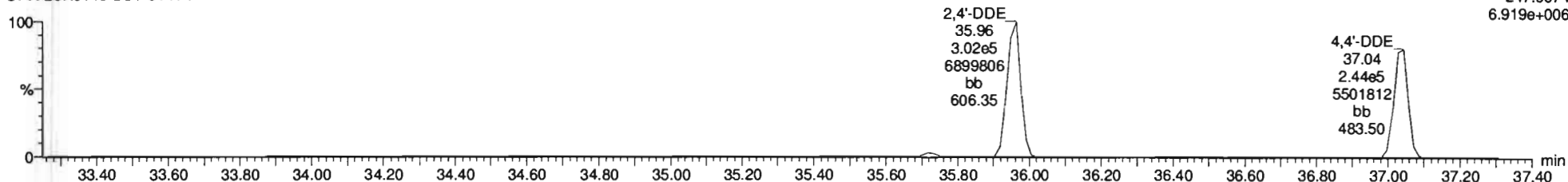
191122K3_9
OPR B9K0146-BS1 OPR 1

F3:Voltage SIR,EI+
246.0003
9.146e+006



191122K3_9
OPR B9K0146-BS1 OPR 1

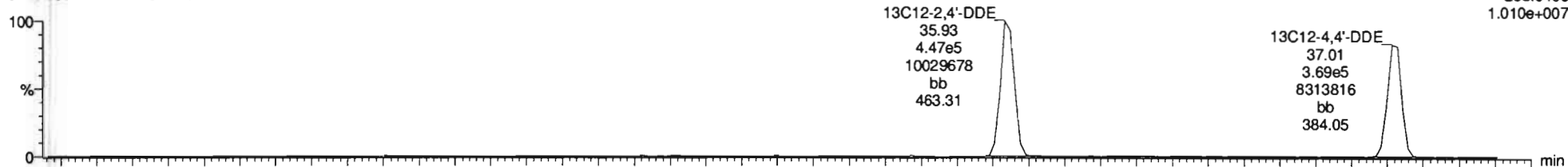
F3:Voltage SIR,EI+
247.9974
6.919e+006



DDE-isotopes

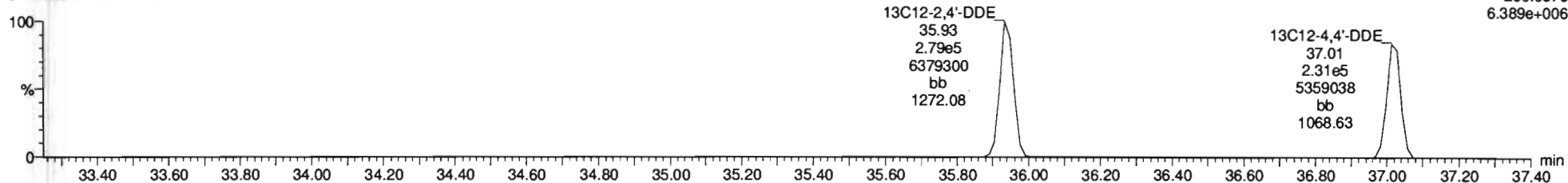
191122K3_9
OPR B9K0146-BS1 OPR 1

F3:Voltage SIR,EI+
258.0406
1.010e+007



191122K3_9
OPR B9K0146-BS1 OPR 1

F3:Voltage SIR,EI+
260.0376
6.389e+006



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

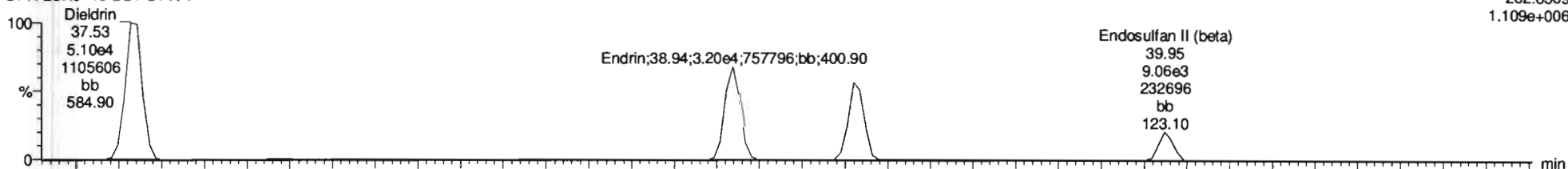
Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

Dieldrin-EII

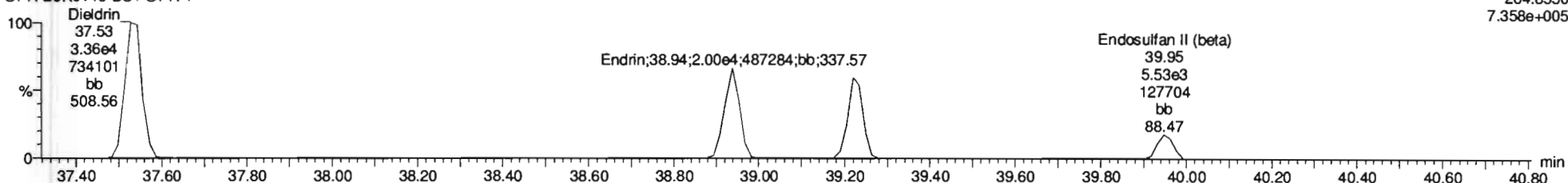
191122K3_9
OPR B9K0146-BS1 OPR 1

F4:Voltage SIR,EI+
262.8569
1.109e+006



191122K3_9
OPR B9K0146-BS1 OPR 1

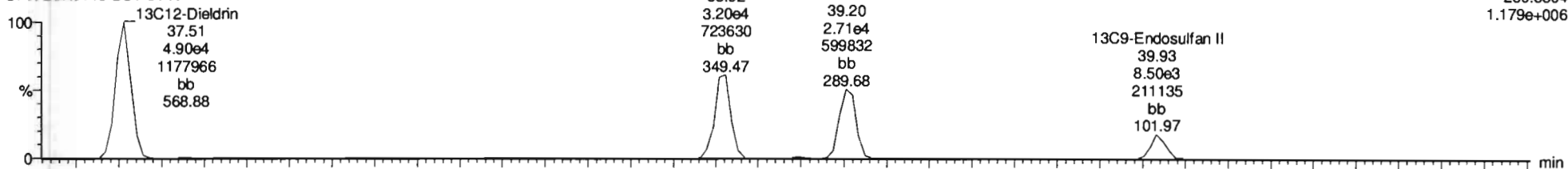
F4:Voltage SIR,EI+
264.8550
7.358e+005



Dieldrin-EII-isotopes

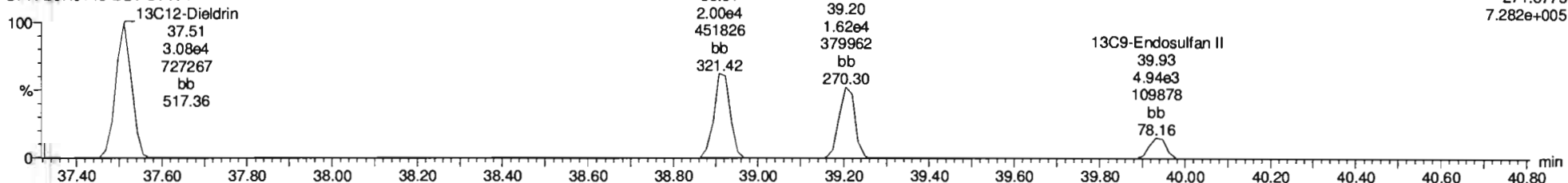
191122K3_9
OPR B9K0146-BS1 OPR 1

F4:Voltage SIR,EI+
269.8804
1.179e+006



191122K3_9
OPR B9K0146-BS1 OPR 1

F4:Voltage SIR,EI+
271.8775
7.282e+005



Dataset: Untitled

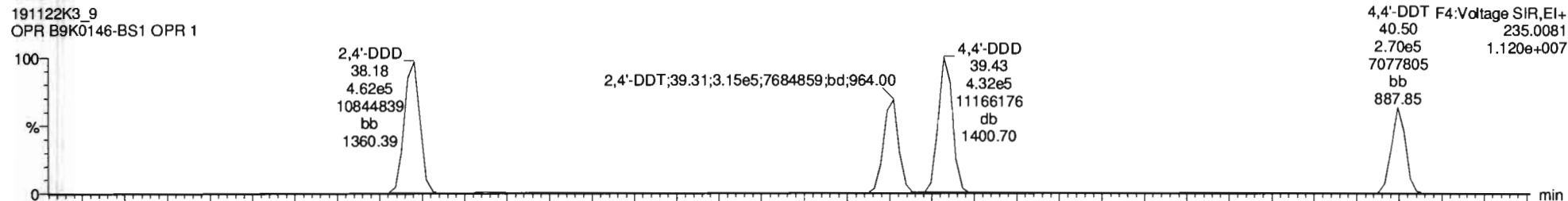
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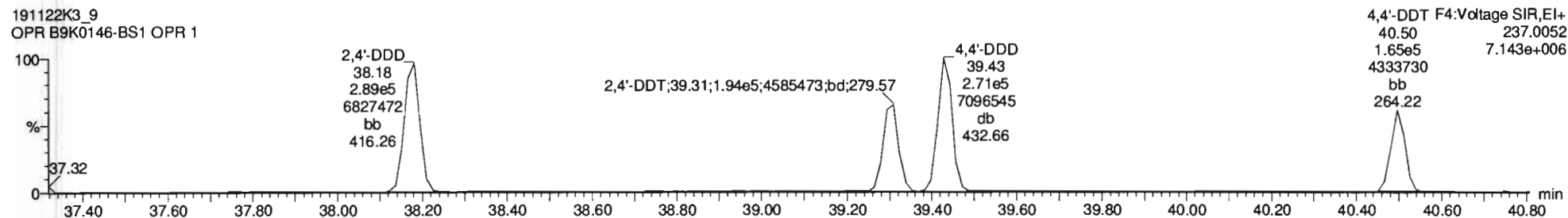
Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

DDD-DDT

191122K3_9
OPR B9K0146-BS1 OPR 1

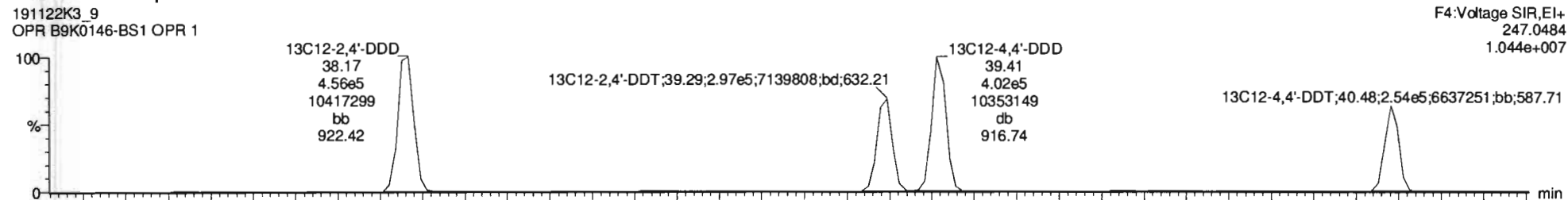


191122K3_9
OPR B9K0146-BS1 OPR 1

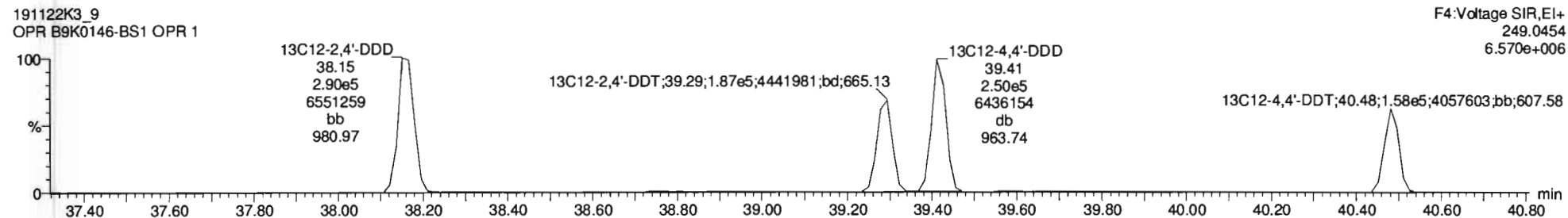


DDD-DDT-isotopes

191122K3_9
OPR B9K0146-BS1 OPR 1



191122K3_9
OPR B9K0146-BS1 OPR 1



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

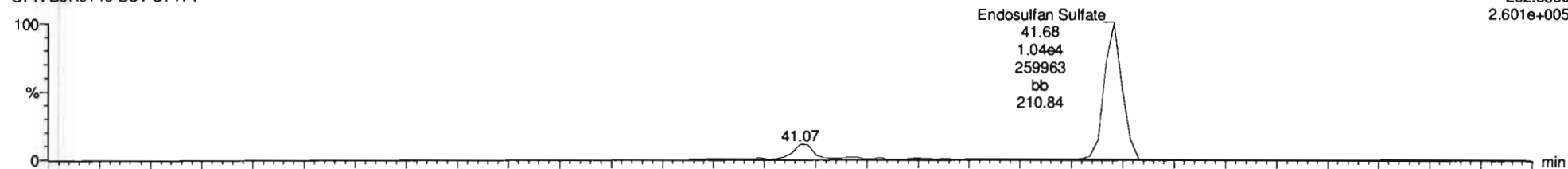
Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

Endosulfan Sulfate

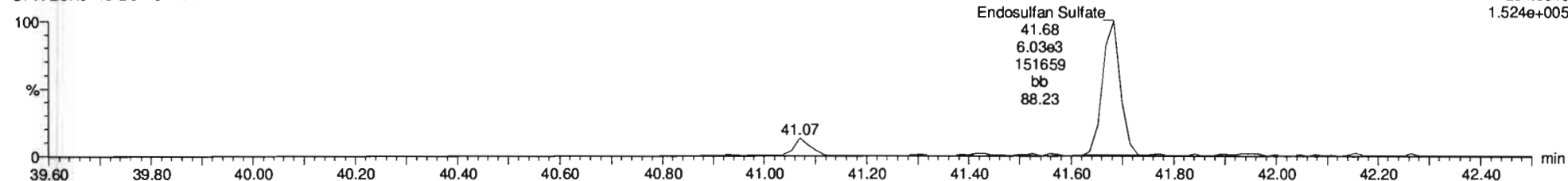
191122K3_9
OPR B9K0146-BS1 OPR 1

F5:Voltage SIR,EI+
262.8569
2.601e+005



191122K3_9
OPR B9K0146-BS1 OPR 1

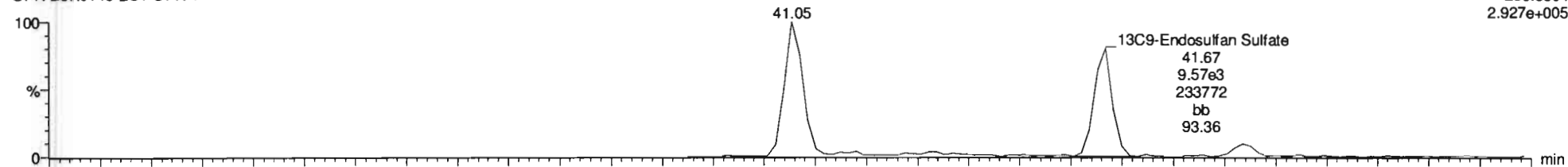
F5:Voltage SIR,EI+
264.8540
1.524e+005



13C9-Endosulfan Sulfate

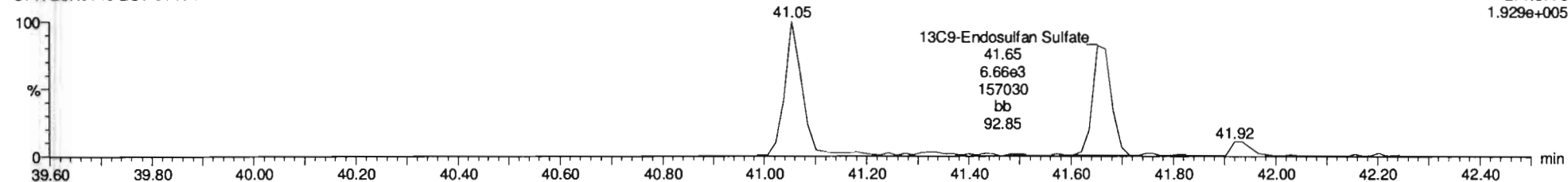
191122K3_9
OPR B9K0146-BS1 OPR 1

F5:Voltage SIR,EI+
269.8804
2.927e+005



191122K3_9
OPR B9K0146-BS1 OPR 1

F5:Voltage SIR,EI+
271.8775
1.929e+005



Dataset: Untitled

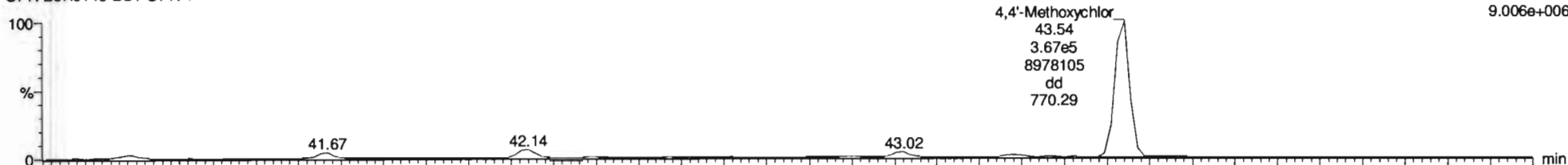
Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time
Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

4,4'-Methoxychlor

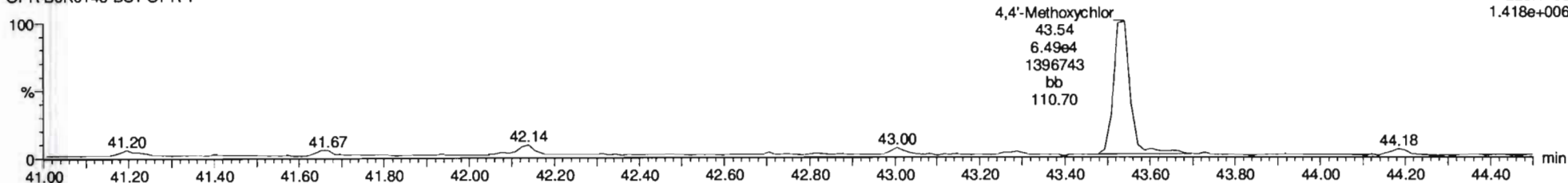
191122K3_9
OPR B9K0146-BS1 OPR 1

F5:Voltage SIR,El+
227.1072
9.006e+006



191122K3_9
OPR B9K0146-BS1 OPR 1

F5:Voltage SIR,El+
228.1106
1.418e+006



13C12-Methoxychlor

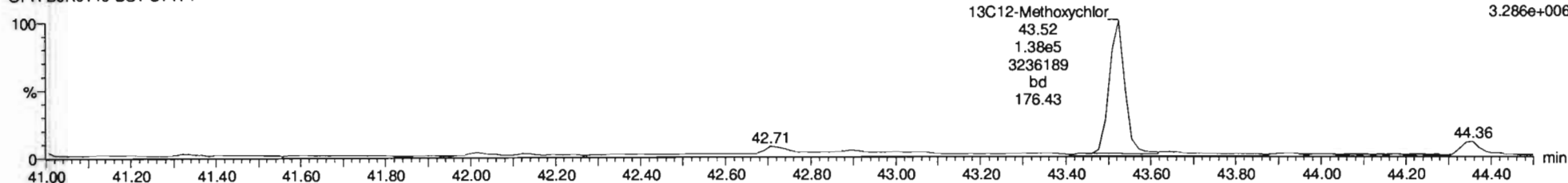
191122K3_9
OPR B9K0146-BS1 OPR 1

F5:Voltage SIR,El+
239.1475
8.022e+007

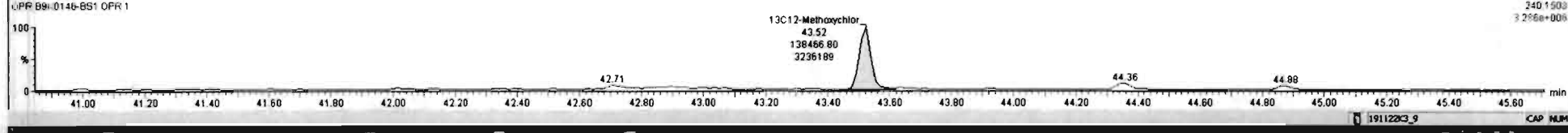
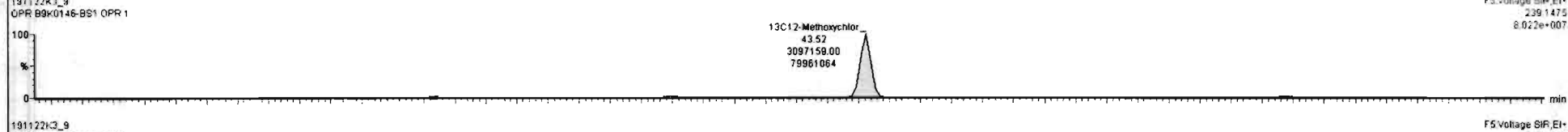
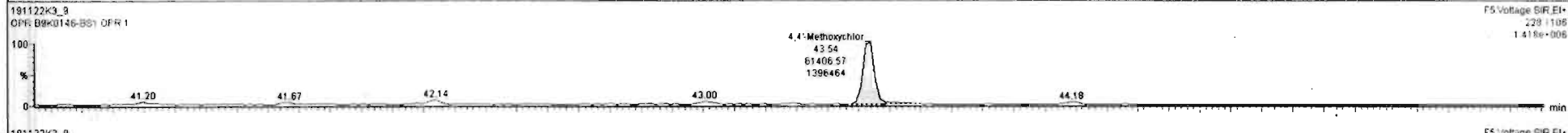
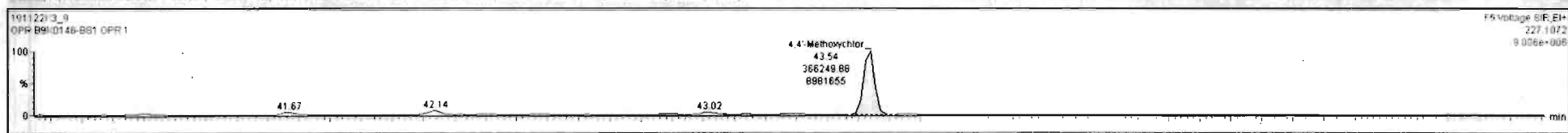


191122K3_9
OPR B9K0146-BS1 OPR 1

F5:Voltage SIR,El+
240.1508
3.286e+006



#	Name	Resp	IS Resp	IS#	RA	nly	RF#	wtVol	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
18	2,4'-DDE	7.04e5	7.26e5	46	1.33	NO	0.8542	1.000	35.94	35.96	1.001	1.000	NO	1130		2.89	1130
19	4,4'-DDE	5.76e5	6.00e5	47	1.37	NO	0.8728	1.000	37.03	37.04	1.001	1.000	NO	1100		3.42	1100
20	Dieldrin	8.46e4	7.98e4	48	1.52	NO	0.9570	1.000	37.53	37.53	1.000	1.000	NO	1110		4.54	1110
21	Endrin	5.19e4	5.20e4	49	1.60	NO	0.9326	1.000	38.92	38.94	1.000	1.000	NO	1070		7.60	1070
22	cis-Nonachlor	4.45e4	4.33e4	50	1.50	NO	0.9556	1.000	39.22	39.22	1.000	1.000	NO	1080		9.10	1080
23	Endosulfan II (beta)	1.46e4	1.34e4	51	1.64	NO	1.0639	1.000	39.93	39.95	1.000	1.000	NO	1020		23.5	1020
24	2,4'-DDD	7.51e5	7.45e5	52	1.60	NO	0.9153	1.000	38.17	38.18	1.000	1.000	NO	1100		3.90	1100
25	2,4'-DDT	5.09e5	4.84e5	53	1.62	NO	0.9205	1.000	39.31	39.31	1.000	1.000	NO	1140		5.69	1140
26	4,4'-DDD	7.03e5	6.52e5	54	1.59	NO	1.0039	1.000	39.43	39.43	1.000	1.000	NO	1070		3.61	1070
27	4,4'-DDT	4.35e5	4.12e5	55	1.63	NO	0.9865	1.000	40.50	40.50	1.000	1.000	NO	1070		5.73	1070
28	Endosulfan Sulfate	1.65e4	1.62e4	56	1.73	NO	0.9279	1.000	41.67	41.68	1.000	1.000	NO	1090		20.1	1090
29	4,4'-Methoxychlor	4.28e5	3.24e5	57	5.96	NO	1.1362	1.000	43.53	43.54	1.000	1.000	NO	1180		6.35	1180
30	Mirex	1.58e5	1.55e5	58	1.60	NO	0.9323	1.000	44.10	44.09	1.000	1.000	NO	1100		5.25	1100
31	Endrin Aldehyde	3.00e4	2.85e5	59	0.62	NO	0.8867	1.000	41.07	41.08	1.001	1.000	NO	1190		18.6	1190
32	Endrin Ketone	2.15e4	2.36e5	60	0.61	NO	0.9108	1.000	44.22	44.23	1.000	1.000	NO	1000		22.7	1000
33	13C4-Hexachlorobutadi	8.24e5	1.26e6	62	1.28	NO	0.1362	1.000	10.19	10.21	0.391	0.390	NO	4730	47.3	0.907	
34	13C6-Hexachlorobenz	3.61e5	1.26e6	62	1.28	NO	0.6911	1.000	22.82	22.81	0.873	0.874	NO	414	41.4	0.154	



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

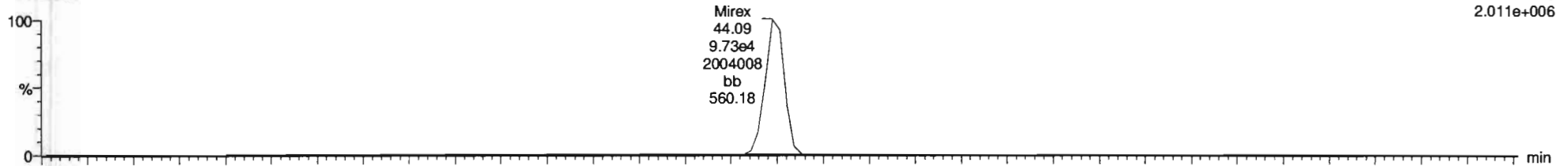
Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

Mirex

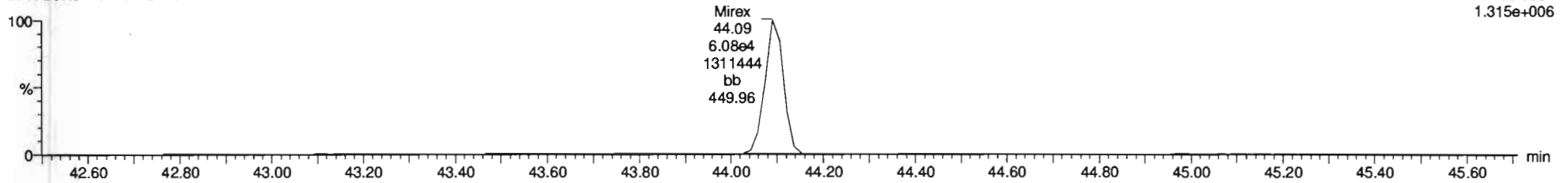
191122K3_9
OPR B9K0146-BS1 OPR 1

F5:Voltage SIR,EI+
236.8413
2.011e+006



191122K3_9
OPR B9K0146-BS1 OPR 1

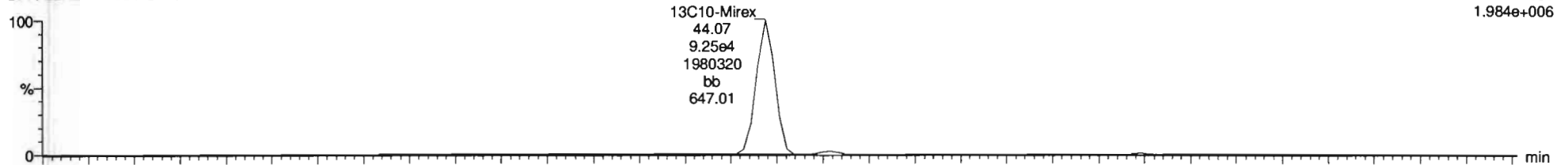
F5:Voltage SIR,EI+
238.8384
1.315e+006



13C10-Mirex

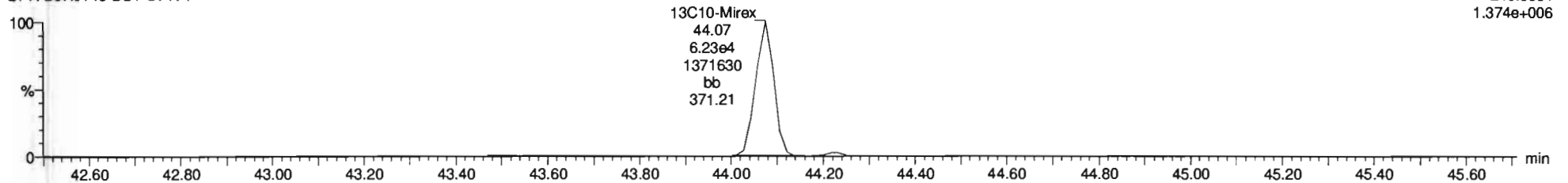
191122K3_9
OPR B9K0146-BS1 OPR 1

F5:Voltage SIR,EI+
241.8581
1.984e+006



191122K3_9
OPR B9K0146-BS1 OPR 1

F5:Voltage SIR,EI+
243.8551
1.374e+006



Dataset: Untitled

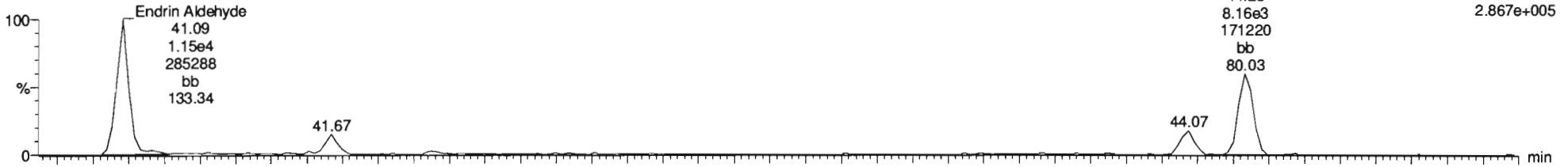
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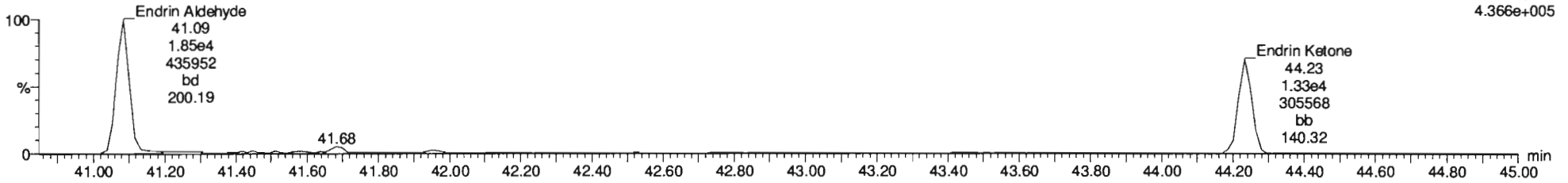
Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

EA-EK

191122K3_9
OPR B9K0146-BS1 OPR 1

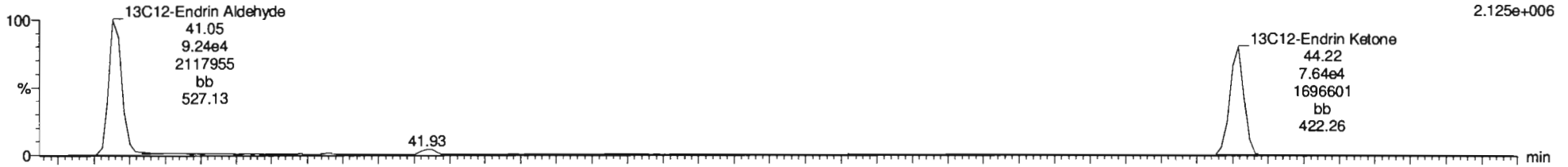


191122K3_9
OPR B9K0146-BS1 OPR 1

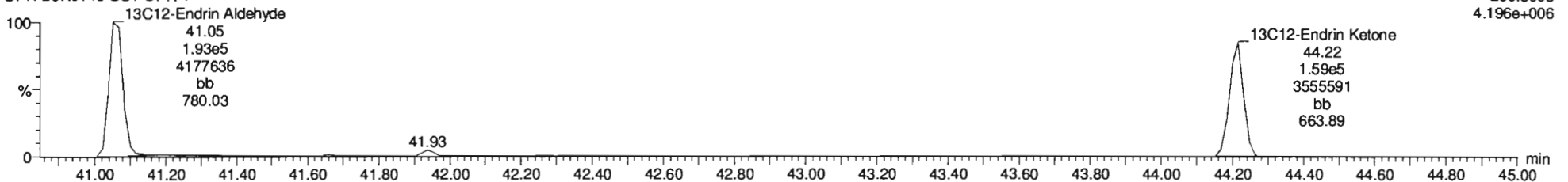


EA-EK-isotopes

191122K3_9
OPR B9K0146-BS1 OPR 1



191122K3_9
OPR B9K0146-BS1 OPR 1



#	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	7.04e5	7.26e5	46	1.33	NO	0.8542	1.000	35.94	35.96	1.001	1.000	NO	1130	2.89	1130	
19	4,4'-DDE	5.76e5	6.00e5	47	1.37	NO	0.8728	1.000	37.03	37.04	1.001	1.000	NO	1100	3.42	1100	
20	Dieldrin	8.46e4	7.98e4	48	1.52	NO	0.9570	1.000	37.53	37.53	1.000	1.000	NO	1110	4.54	1110	
21	Endrin	5.19e4	5.20e4	49	1.60	NO	0.9326	1.000	38.92	38.94	1.000	1.000	NO	1070	7.60	1070	
22	cis-Nonachlor	4.45e4	4.33e4	50	1.50	NO	0.9556	1.000	39.22	39.22	1.000	1.000	NO	1080	9.10	1080	
23	Endosulfan I (beta)	1.46e4	1.34e4	51	1.64	NO	1.0639	1.000	39.93	39.95	1.000	1.000	NO	1020	23.5	1020	
24	2,4'-DDD	7.51e5	7.46e5	52	1.80	NO	0.9153	1.000	38.17	38.18	1.000	1.000	NO	1100	3.90	1100	
25	2,4'-DDT	5.09e5	4.84e5	53	1.62	NO	0.9205	1.000	39.31	39.31	1.000	1.000	NO	1140	5.69	1140	
26	4,4'-DDD	7.03e5	6.52e5	54	1.59	NO	1.0039	1.000	39.43	39.43	1.000	1.000	NO	1070	3.61	1070	
27	4,4'-DDT	4.35e5	4.12e5	55	1.63	NO	0.9865	1.000	40.50	40.50	1.000	1.000	NO	1070	5.73	1070	
28	Endosulfan Sulfate	1.85e4	1.62e4	56	1.73	NO	0.9279	1.000	41.67	41.68	1.000	1.000	NO	1090	20.1	1090	
29	4,4'-Methoxychlor	4.28e5	3.24e6	57	5.96	NO	1.1362	1.000	43.53	43.54	1.000	1.000	NO	1160	6.39	1160	
30	Mirex	1.59e5	1.55e5	58	1.60	NO	0.9323	1.000	44.10	44.09	1.000	1.000	NO	1100	5.25	1100	
31	Endrin Aldehyde	2.91e4	2.89e5	59	0.62	NO	0.8967	1.000	41.07	41.09	1.001	1.000	NO	1160	18.4	1160	
32	Endrin Ketone	2.15e4	2.36e5	60	0.81	NO	0.9100	1.000	44.22	44.23	1.000	1.000	NO	1000	22.7	1000	
33	13C4-Hexachlorobutadi...	8.24e5	1.26e6	62	1.28	NO	0.1362	1.000	10.19	10.21	0.391	0.390	NO	4730	47.3	0.907	
34	13C6-Hexachlorobenz...	3.81e5	1.26e6	62	1.28	NO	0.6911	1.000	22.82	22.81	0.873	0.874	NO	414	41.4	0.154	



Dataset: Untitled

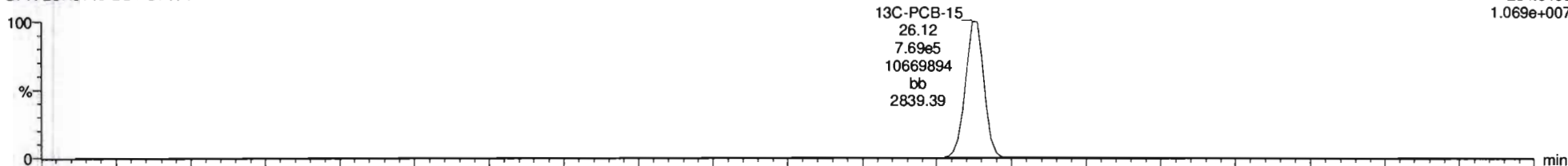
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Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

13C-PCB-15

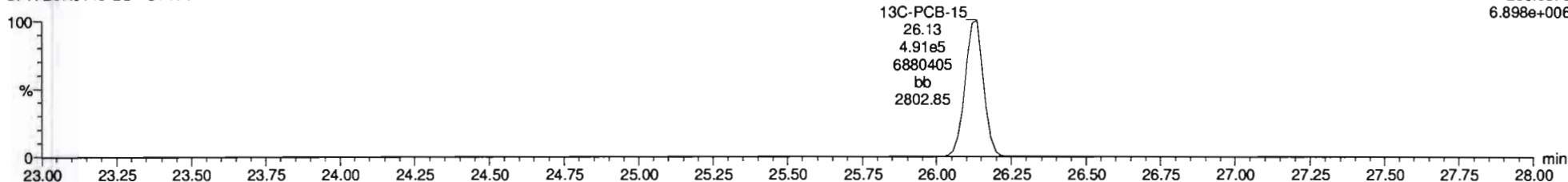
191122K3_9
OPR B9K0146-BS1 OPR 1

F2:Voltage SIR,EI+
234.0406
1.069e+007



191122K3_9
OPR B9K0146-BS1 OPR 1

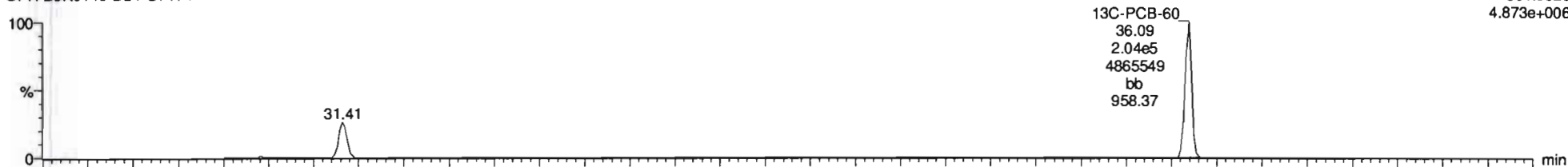
F2:Voltage SIR,EI+
236.0376
6.898e+006



13C-PCB-60

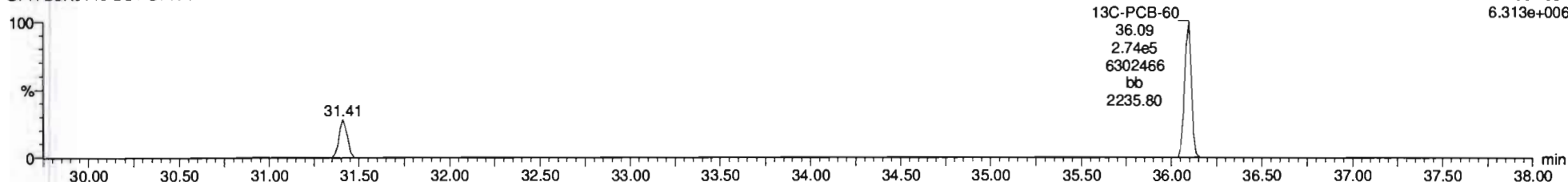
191122K3_9
OPR B9K0146-BS1 OPR 1

F3:Voltage SIR,EI+
301.9626
4.873e+006



191122K3_9
OPR B9K0146-BS1 OPR 1

F3:Voltage SIR,EI+
303.9597
6.313e+006



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time

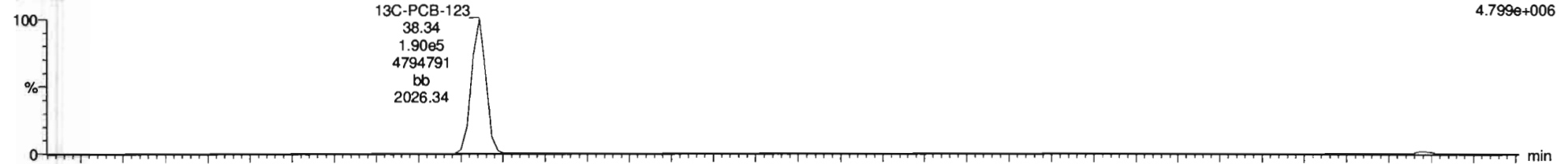
Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

13C-PCB-123

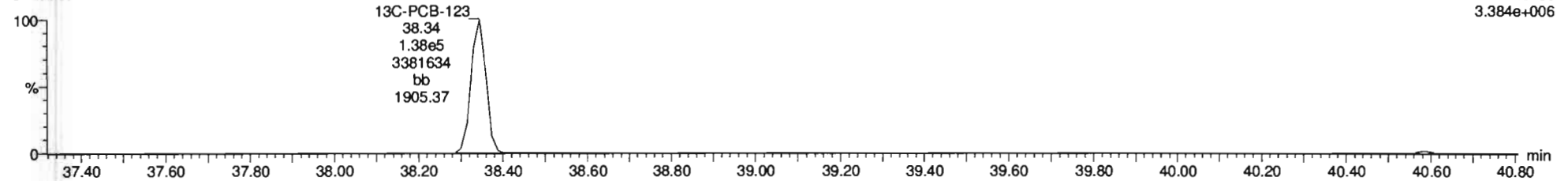
191122K3_9
OPR B9K0146-BS1 OPR 1

F4:Voltage SIR,EI+
337.9210
4.799e+006



191122K3_9
OPR B9K0146-BS1 OPR 1

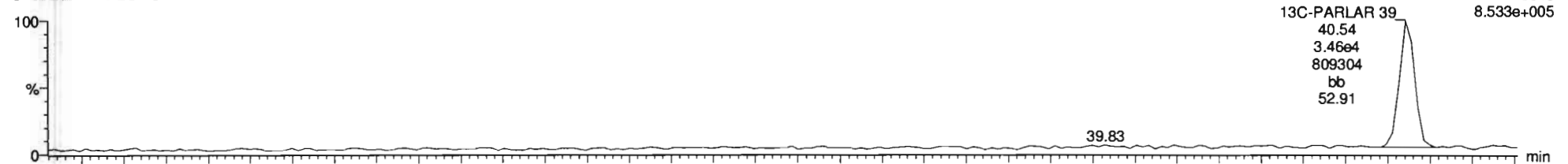
F4:Voltage SIR,EI+
339.9180
3.384e+006



13C-PARLAR 39

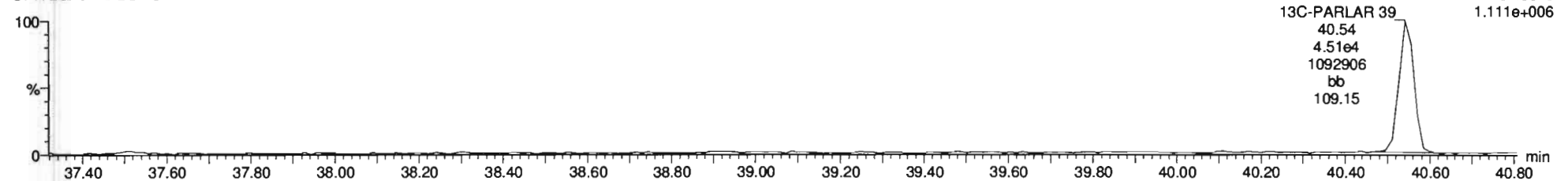
191122K3_9
OPR B9K0146-BS1 OPR 1

F4:Voltage SIR,EI+
251.9648
8.533e+005



191122K3_9
OPR B9K0146-BS1 OPR 1

F4:Voltage SIR,EI+
253.9619
1.111e+006



Dataset: Untitled

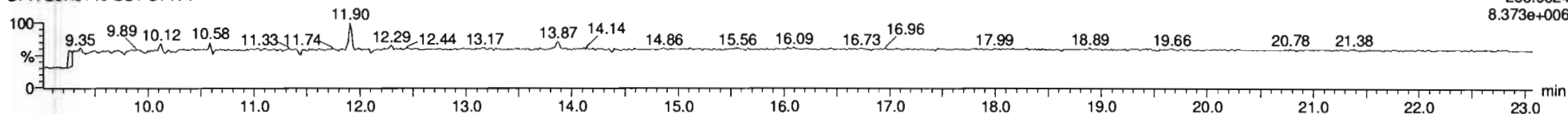
Last Altered: Sunday, November 24, 2019 15:53:55 Pacific Standard Time
Printed: Sunday, November 24, 2019 15:54:47 Pacific Standard Time

Name: 191122K3_9, Date: 22-Nov-2019, Time: 22:36:26, ID: B9K0146-BS1 OPR 1, Description: OPR

PFK1

191122K3_9
OPR B9K0146-BS1 OPR 1

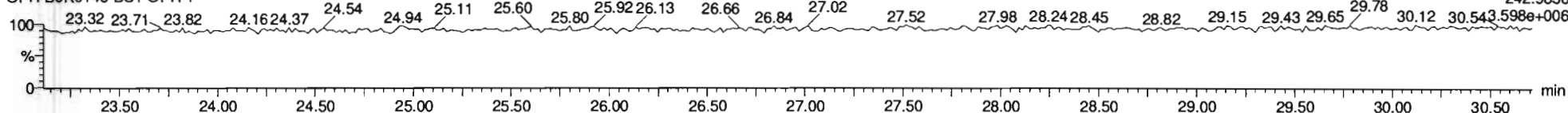
F1:Voltage SIR,EI+
268.9824
8.373e+006



PFK2

191122K3_9
OPR B9K0146-BS1 OPR 1

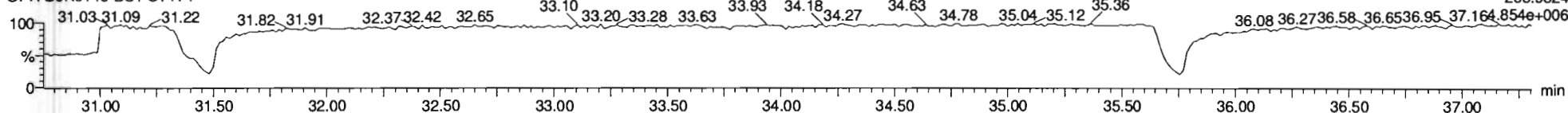
F2:Voltage SIR,EI+
242.9856
5.98e+006



PFK3

191122K3_9
OPR B9K0146-BS1 OPR 1

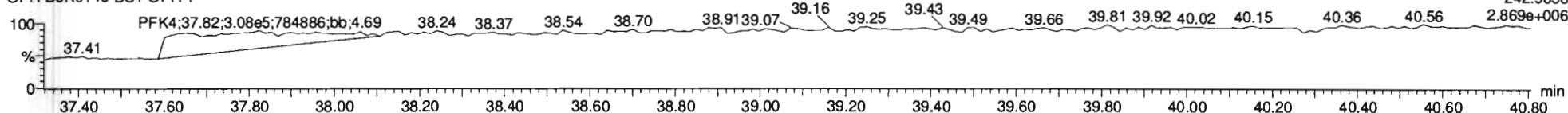
F3:Voltage SIR,EI+
268.9824
5.98e+006



PFK4

191122K3_9
OPR B9K0146-BS1 OPR 1

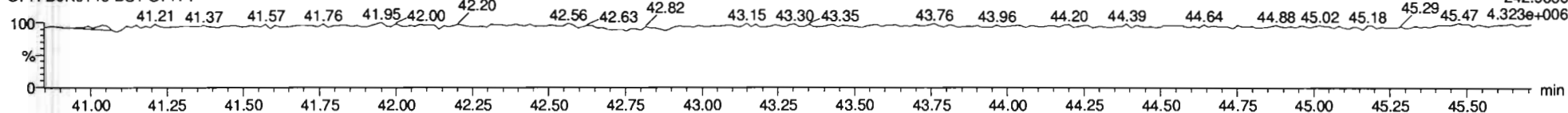
F4:Voltage SIR,EI+
242.9856
2.869e+006



PFK5

191122K3_9
OPR B9K0146-BS1 OPR 1

F5:Voltage SIR,EI+
242.9856
4.323e+006



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-14.qld

Last Altered: Tuesday, November 26, 2019 10:40:33 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:40:44 Pacific Standard Time

GRB 11/26/19

CT 11/26/19

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_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

	# 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	3.08e3	3.63e5	1.36	NO	0.874	0.992	22.83	22.83	1.001	1.001	NO	9.78		0.331	9.78
2	3 Alpha-BHC		2.24e5		NO	0.760	0.992	23.40			1.002	YES			3.12	
3	4 Lindane (gamma-BHC)		1.70e5		NO	0.744	0.992	26.66			1.001	YES			5.03	
4	5 Beta-BHC		1.33e5		NO	0.896	0.992	28.71			1.000	YES			4.43	
5	6 Delta-BHC		1.54e5		NO	0.837	0.992	30.43			1.001	YES			3.71	
6	7 Heptachlor		8.32e4		NO	0.968	0.992	28.86			1.001	YES			2.17	
7	9 Aldrin		1.11e5		NO	1.02	0.992	30.99			1.001	YES			2.06	
8	10 Oxychlorane		2.91e4		NO	0.992	0.992	33.59			1.001	YES			7.37	
9	11 cis-Heptachlor Epoxide		3.82e4		NO	1.00	0.992	34.39			1.001	YES			4.86	
10	12 trans-Heptachlor Epox...		3.82e4		NO	0.255	0.992	34.88			1.015	YES			19.1	
11	13 trans-Chlordane (gam...		2.69e4		NO	1.08	0.992	35.30			1.001	YES			6.82	
12	14 trans-Nonachlor		3.01e4		NO	1.00	0.992	35.49			1.001	YES			6.33	
13	15 cis-Chlordane		3.01e4		NO	0.981	0.992	35.97			1.014	YES			6.47	
14	16 Endosulfan I (alpha)		1.93e4		NO	1.11	0.992	36.07			1.001	YES			9.42	
15	18 2,4'-DDE		6.99e5		NO	0.854	0.992	35.96			1.000	YES			2.15	
16	19 4,4'-DDE		5.42e5		NO	0.873	0.992	37.05			1.000	YES			2.67	
17	20 Dieldrin		7.25e4		NO	0.957	0.992	37.53			1.000	YES			3.37	
18	21 Endrin		4.42e4		NO	0.933	0.992	38.92			1.000	YES			5.60	
19	22 cis-Nonachlor		3.49e4		NO	0.956	0.992	39.23			1.000	YES			6.92	
20	23 Endosulfan II (beta)		1.03e4		NO	1.06	0.992	39.93			1.000	YES			22.3	
21	24 2,4'-DDD		6.87e5		NO	0.915	0.992	38.17			1.000	YES			3.30	
22	25 2,4'-DDT		4.18e5		NO	0.921	0.992	39.31			1.000	YES			5.51	
23	26 4,4'-DDD		5.67e5		NO	1.00	0.992	39.45			1.000	YES			3.63	
24	27 4,4'-DDT		3.36e5		NO	0.986	0.992	40.50			1.000	YES			6.83	
25	28 Endosulfan Sulfate		1.58e4		NO	0.928	0.992	41.67			1.000	YES			13.8	
26	29 4,4'-Methoxychlor		2.72e6		NO	1.14	0.992	43.53			1.000	NO			5.06	
27	30 Mirex		1.26e5		NO	0.932	0.992	44.10			1.000	YES			2.87	
28	31 Endrin Aldehyde		2.69e5		NO	0.887	0.992	41.09			1.000	YES			8.31	
29	32 Endrin Ketone		2.07e5		NO	0.911	0.992	44.22			1.000	YES			12.1	
30	34 13C6-Hexachlorobenz...	3.63e5	1.16e6	1.28	NO	0.691	0.992	22.83	22.81	0.873	0.874	NO	458	45.5	0.195	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-14.qld

Last Altered: Tuesday, November 26, 2019 10:40:33 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:40:44 Pacific Standard Time

Name: 191122K3_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

	# 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	2.24e5	1.16e6	0.78	NO	0.246	0.992	23.38	23.35	0.894	0.895	NO	793	78.7	3.59	
32	36 13C6-Lindane (gamma)	1.70e5	1.16e6	0.79	NO	0.189	0.992	26.64	26.63	1.019	1.020	NO	785	77.9	4.66	
33	37 13C6-Beta-BHC	1.33e5	1.16e6	0.80	NO	0.141	0.992	28.70	28.70	1.098	1.098	NO	825	81.8	6.27	
34	38 13C6-Delta-BHC	1.54e5	1.16e6	0.77	NO	0.164	0.992	30.40	30.41	1.164	1.163	NO	816	81.0	5.36	
35	39 13C10-Heptachlor	8.32e4	1.16e6	1.30	NO	0.0770	0.992	28.83	28.83	1.103	1.103	NO	943	93.6	2.52	
36	40 13C12-Aldrin	1.11e5	1.16e6	1.67	NO	0.122	0.992	30.95	30.96	1.185	1.184	NO	798	79.2	3.79	
37	41 13C10-Oxychlorane	2.91e4	1.16e6	1.75	NO	0.0283	0.992	33.55	33.57	1.285	1.284	NO	896	88.9	16.3	
38	42 13C10-cis-Heptachlor ...	3.82e4	1.16e6	1.64	NO	0.0366	0.992	34.34	34.37	1.315	1.314	NO	909	90.2	12.6	
39	43 13C10-trans-Chlordan...	2.69e4	1.16e6	1.63	NO	0.0292	0.992	35.25	35.28	1.350	1.349	NO	804	79.8	15.8	
40	44 13C10-trans-Nonachlor	3.01e4	1.16e6	1.60	NO	0.0333	0.992	35.44	35.47	1.357	1.356	NO	787	78.1	13.8	
41	45 13C9-Endosulfan I (al...	1.93e4	1.16e6	1.63	NO	0.0212	0.992	36.03	36.05	1.379	1.378	NO	795	78.9	21.7	
42	46 13C12-2,4'-DDE	6.99e5	1.16e6	1.59	NO	0.763	0.992	35.95	35.95	0.996	0.996	NO	798	79.2	4.65	
43	47 13C12-4,4'-DDE	5.42e5	1.16e6	1.59	NO	0.552	0.992	37.01	37.03	1.026	1.026	NO	856	85.0	6.42	
44	48 13C12-Dieldrin	7.25e4	1.16e6	1.55	NO	0.0749	0.992	37.51	37.51	1.039	1.039	NO	844	83.8	6.17	
45	49 13C12-Endrin	4.42e4	1.16e6	1.62	NO	0.0351	0.992	38.92	38.92	1.078	1.078	NO	1100	109	13.2	
46	50 13C10-cis-Nonachlor	3.49e4	1.16e6	1.63	NO	0.0389	0.992	39.20	39.22	1.087	1.086	NO	781	77.5	11.9	
47	51 13C9-Endosulfan II	1.03e4	1.16e6	1.52	NO	0.0112	0.992	39.93	39.93	1.106	1.106	NO	805	79.8	41.3	
48	52 13C12-2,4'-DDD	6.87e5	1.16e6	1.58	NO	0.588	0.992	38.12	38.17	1.460	1.459	NO	1020	101	3.48	
49	53 13C12-2,4'-DDT	4.18e5	1.16e6	1.62	NO	0.370	0.992	39.25	39.29	1.504	1.502	NO	985	97.7	5.52	
50	54 13C12-4,4'-DDD	5.67e5	1.16e6	1.57	NO	0.473	0.992	39.37	39.43	1.509	1.507	NO	1050	104	4.32	
51	55 13C12-4,4'-DDT	3.36e5	1.16e6	1.57	NO	0.280	0.992	40.44	40.48	1.549	1.547	NO	1050	104	7.30	
52	56 13C9-Endosulfan Sulf...	1.58e4	1.16e6	1.40	NO	0.0173	0.992	41.66	41.67	1.154	1.154	NO	796	79.0	32.2	
53	57 13C12-Methoxychlor	2.72e6	1.16e6	21.81	NO	0.257	0.992	43.53	43.52	1.206	1.206	NO	9220	91.5	17.1	
54	58 13C10-Mirex	1.26e5	1.16e6	1.66	NO	0.164	0.992	44.08	44.07	1.221	1.221	NO	668	66.3	5.33	
55	59 13C12-Endrin Aldehyde	2.69e5	1.16e6	0.52	NO	0.0345	0.992	41.06	41.07	1.138	1.138	NO	6800	67.4	34.9	
56	60 13C12-Endrin Ketone	2.07e5	1.16e6	0.51	NO	0.0222	0.992	44.22	44.22	1.225	1.225	NO	8150	80.9	54.2	
57	62 13C-PCB-15	1.16e6	1.16e6	1.56	NO	1.00	0.992	26.18	26.13	1.000	1.000	NO	1010	100	3.81	

Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

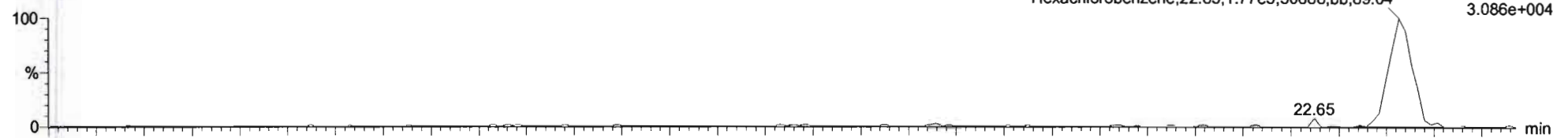
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Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

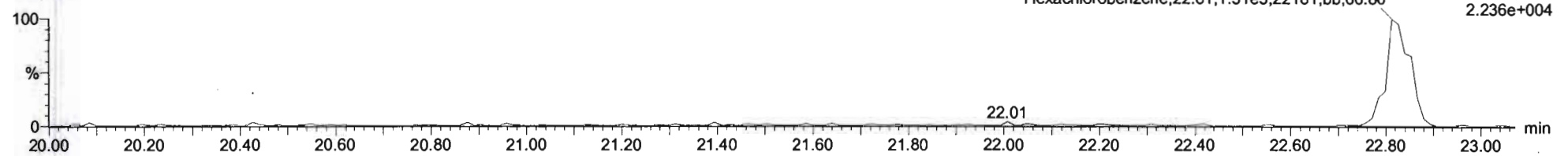
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Hexachlorobenzene

191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

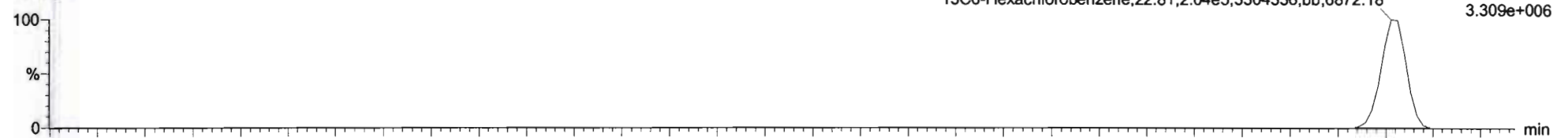


191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

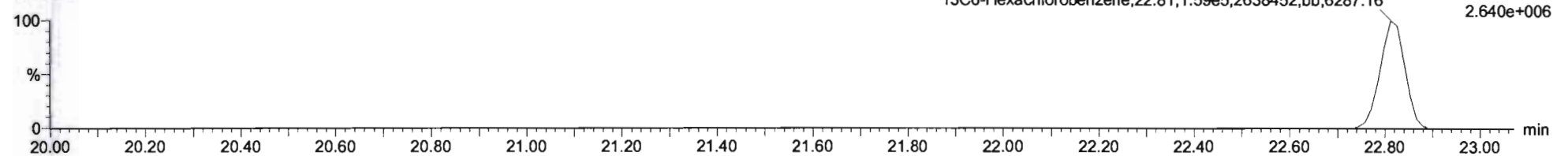


13C6-Hexachlorobenzene

191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

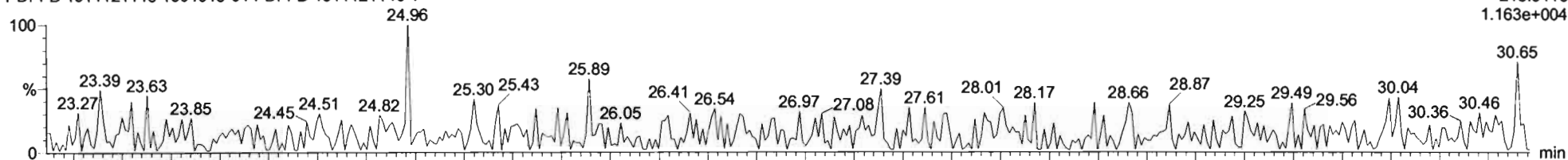
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BHC Totals

191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

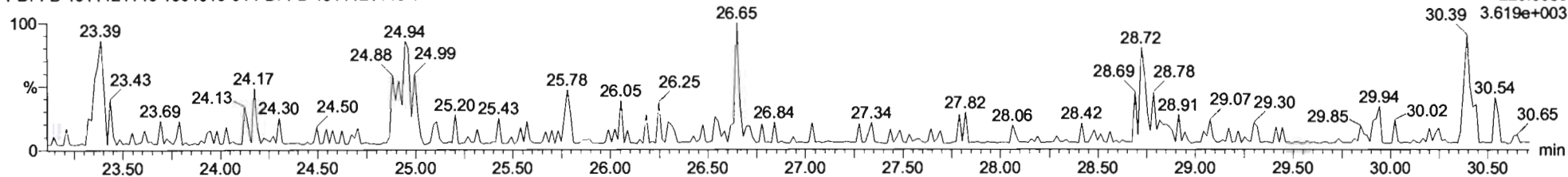
SN

F2:Voltage SIR,EI+
218.9116
1.163e+004



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

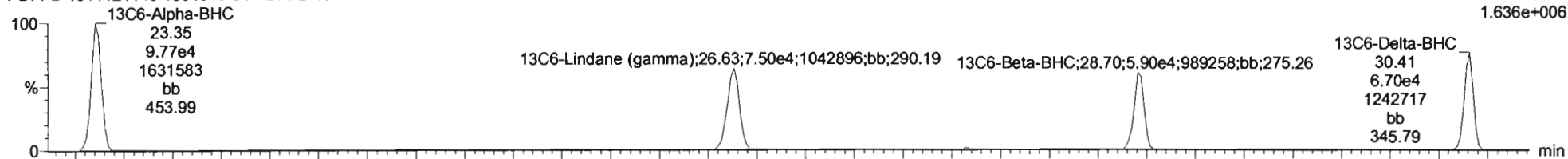
F2:Voltage SIR,EI+
220.9086
3.619e+003



BHC-isotopes

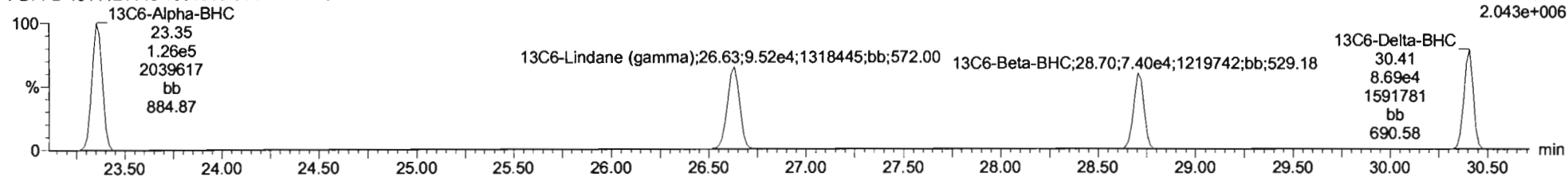
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F2:Voltage SIR,EI+
222.9346
1.636e+006



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F2:Voltage SIR,EI+
224.9317
2.043e+006



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

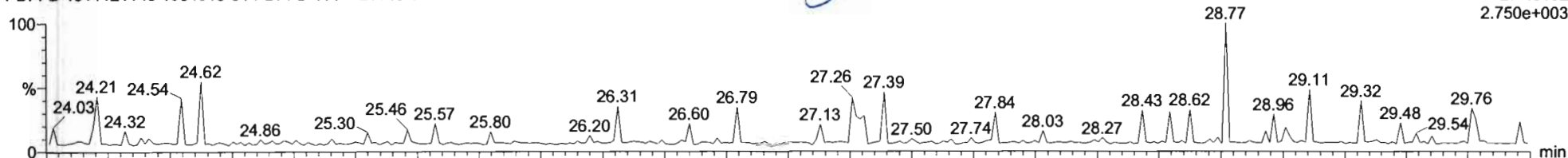
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Heptachlor

191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

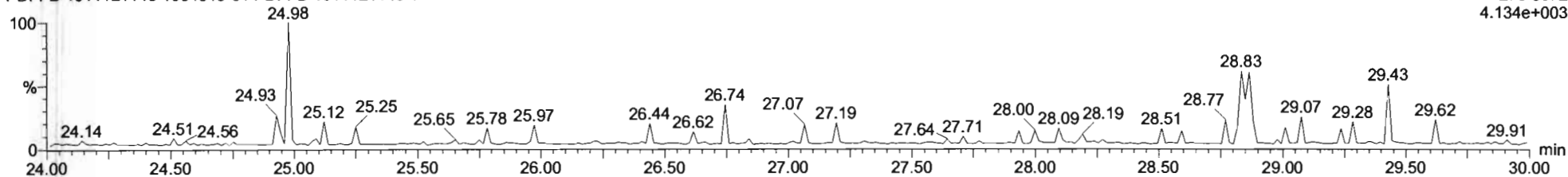
SN

F2:Voltage SIR,EI+
271.8102
2.750e+003



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

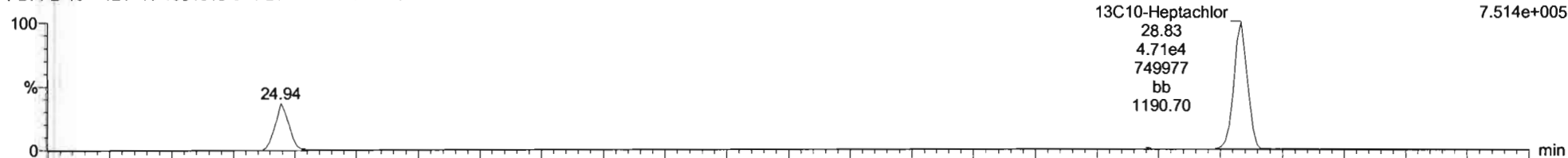
F2:Voltage SIR,EI+
273.8072
4.134e+003



13C10-Heptachlor

191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

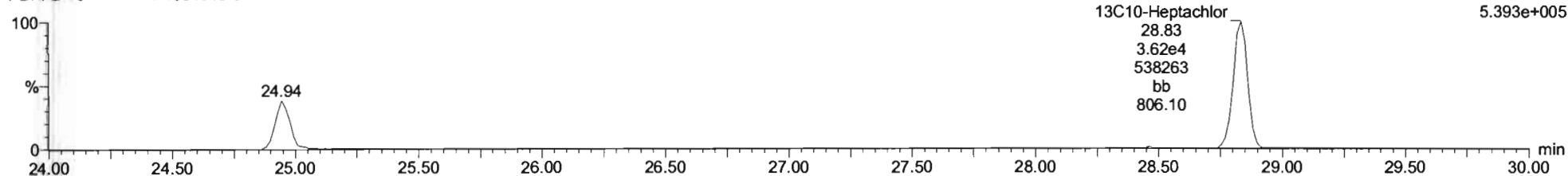
F2:Voltage SIR,EI+
276.8269
7.514e+005



13C10-Heptachlor
28.83
4.71e4
749977
bb
1190.70

191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F2:Voltage SIR,EI+
278.8240
5.393e+005



13C10-Heptachlor
28.83
3.62e4
538263
bb
806.10

Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

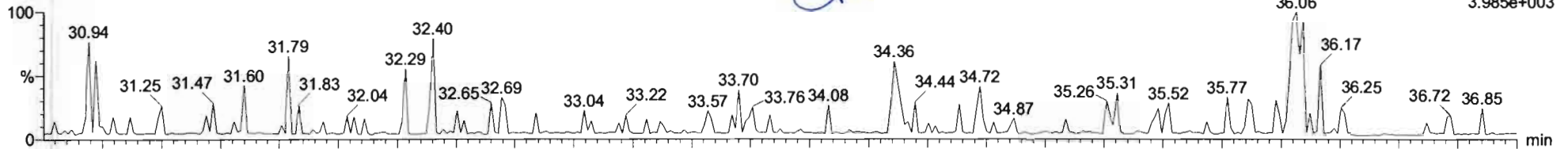
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

Aldrin-EI

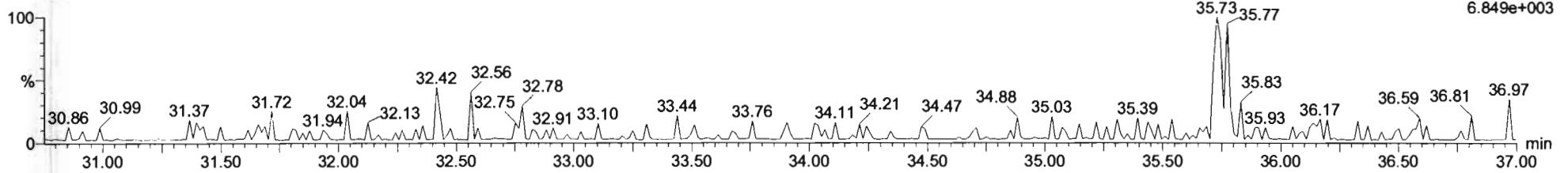
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F3:Voltage SIR,EI+
262.8569
3.985e+003



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

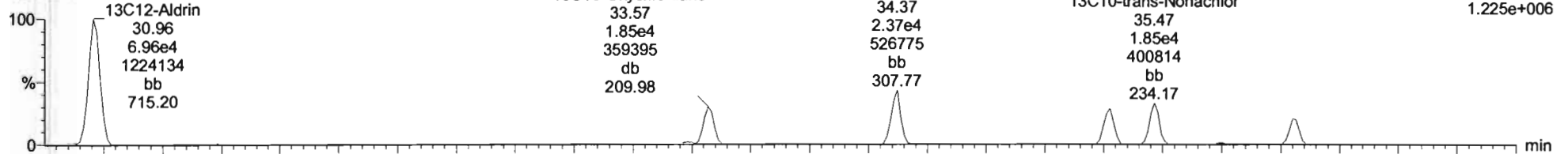
F3:Voltage SIR,EI+
264.8550
6.849e+003



Aldrin-EI-isotopes

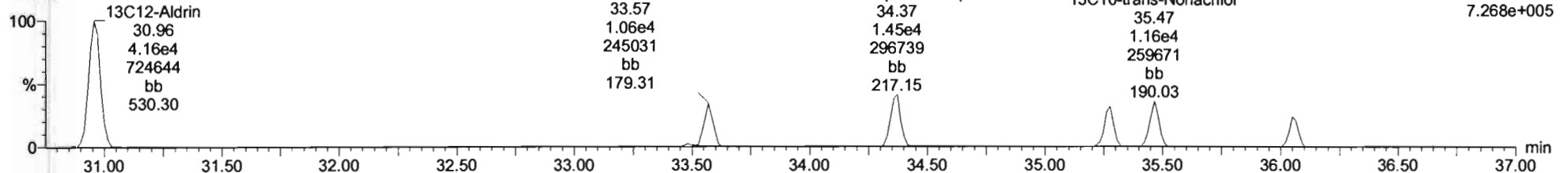
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F3:Voltage SIR,EI+
269.8804
1.225e+006



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F3:Voltage SIR,EI+
271.8775
7.268e+005



Dataset: Untitled

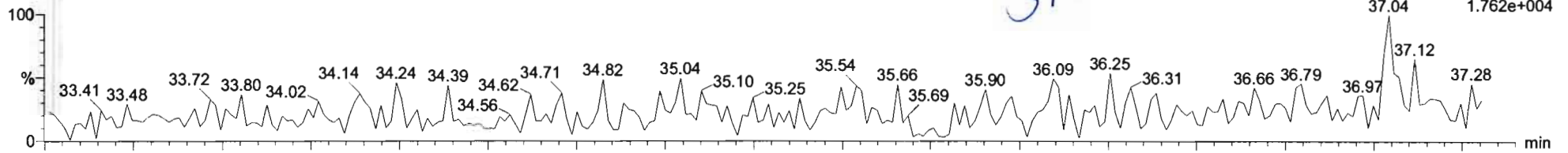
Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

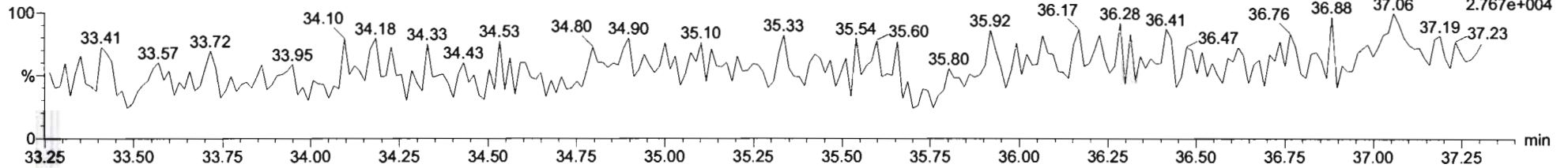
Name: 191122K3_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

DDMU-DDE

191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

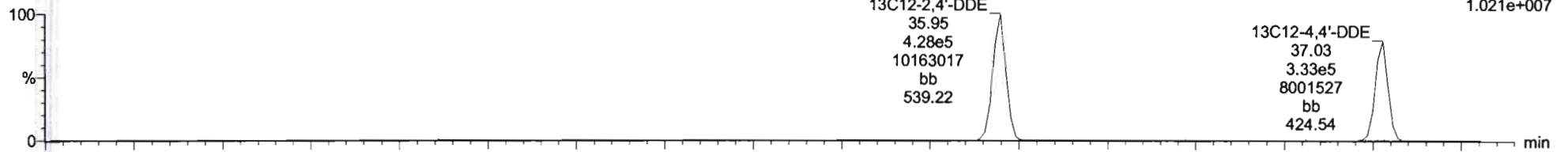


191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

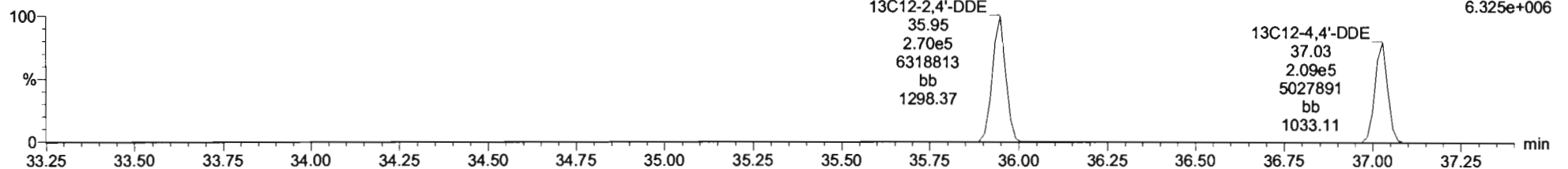


DDE-isotopes

191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

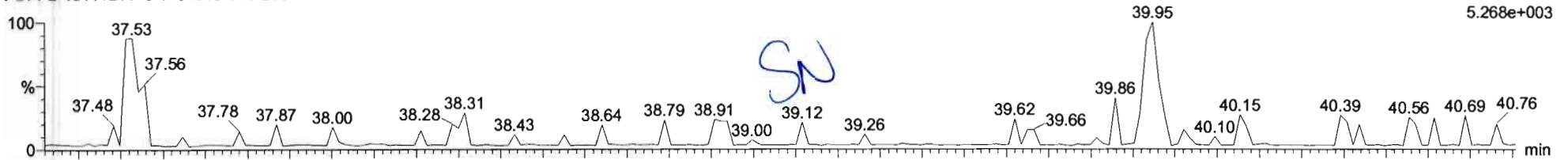
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

Dieldrin-EII

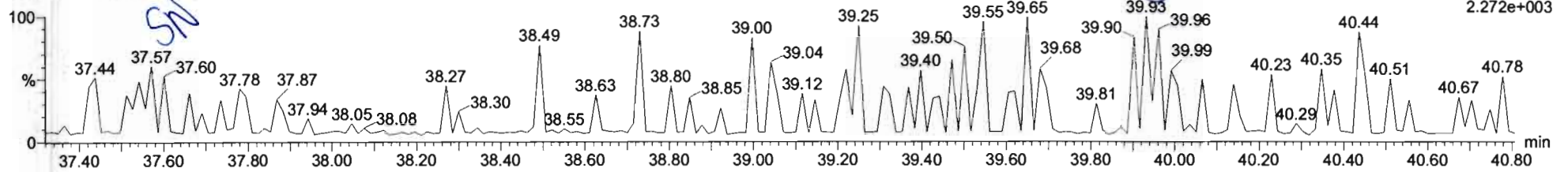
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F4:Voltage SIR,EI+
262.8569
5.268e+003



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

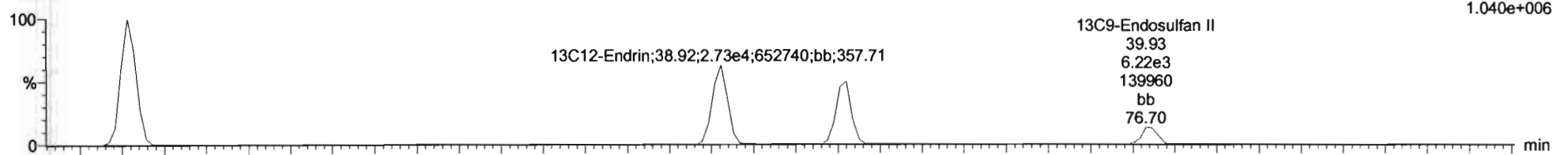
F4:Voltage SIR,EI+
264.8550
2.272e+003



Dieldrin-EII-isotopes

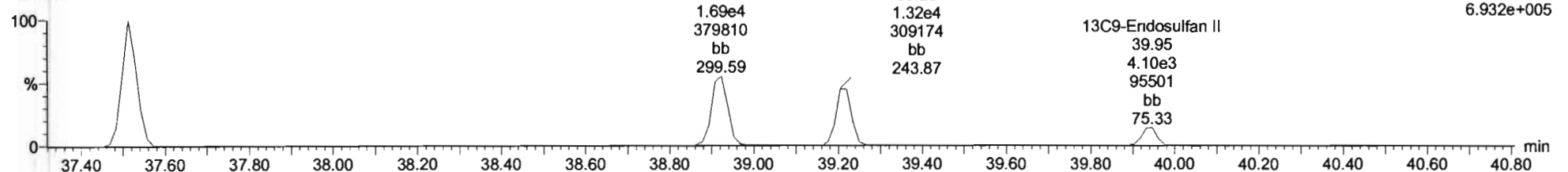
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F4:Voltage SIR,EI+
269.8804
1.040e+006



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F4:Voltage SIR,EI+
271.8775
6.932e+005



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

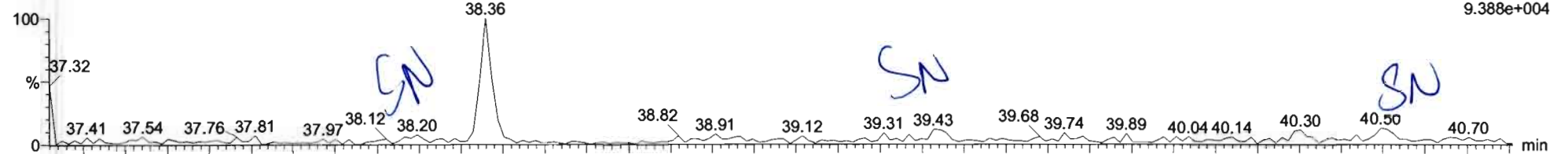
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

DDD-DDT

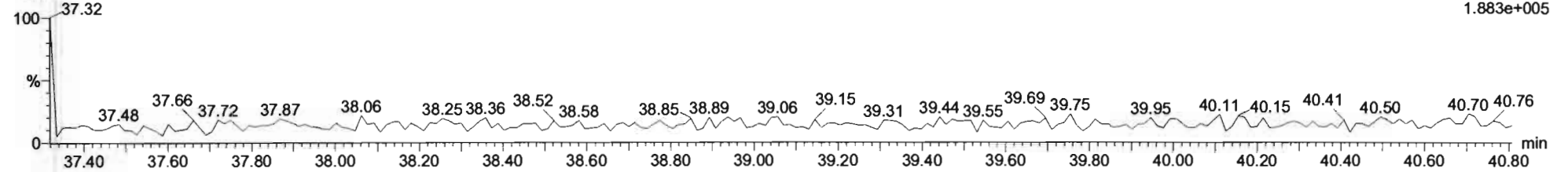
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F4:Voltage SIR,EI+
235.0081
9.388e+004



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

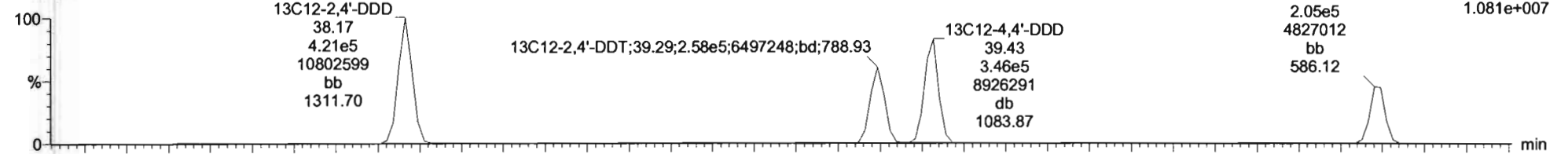
F4:Voltage SIR,EI+
237.0052
1.883e+005



DDD-DDT-isotopes

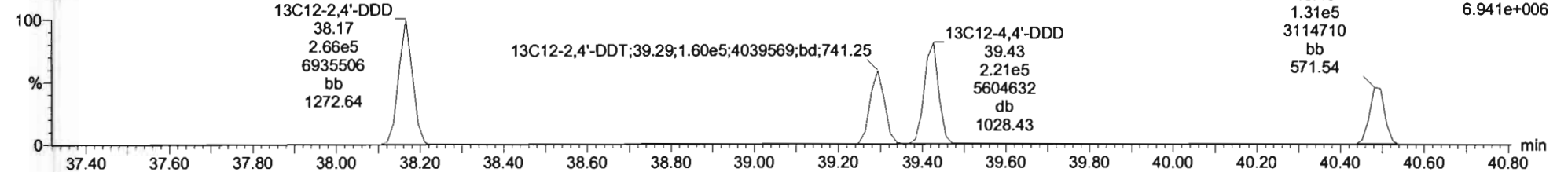
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

13C12-4,4'-DDT F4:Voltage SIR,EI+
40.48 247.0484
2.05e5 1.081e+007
4827012
bb 586.12



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

13C12-4,4'-DDT F4:Voltage SIR,EI+
40.48 249.0454
1.31e5 6.941e+006
3114710
bb 571.54



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

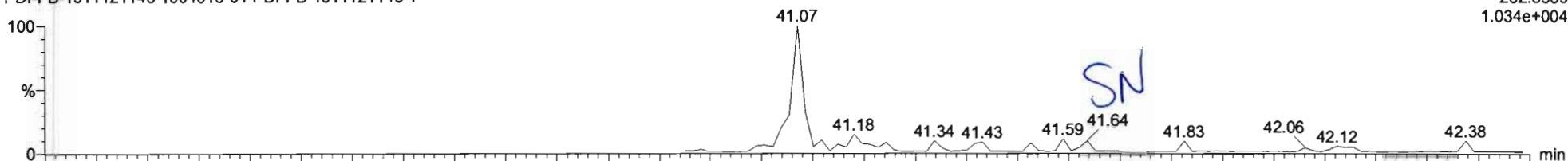
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

Endosulfan Sulfate

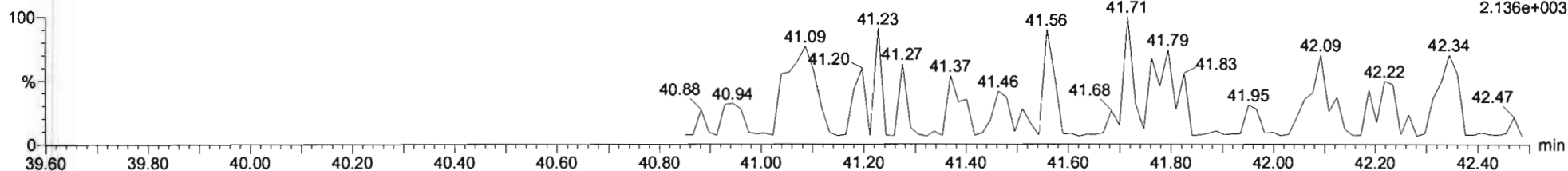
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F5:Voltage SIR,EI+
262.8569
1.034e+004



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

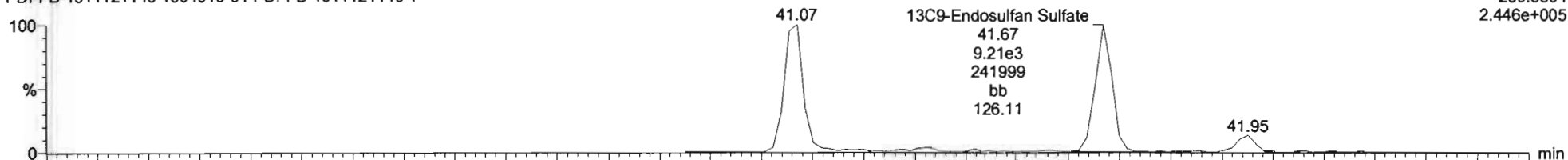
F5:Voltage SIR,EI+
264.8540
2.136e+003



13C9-Endosulfan Sulfate

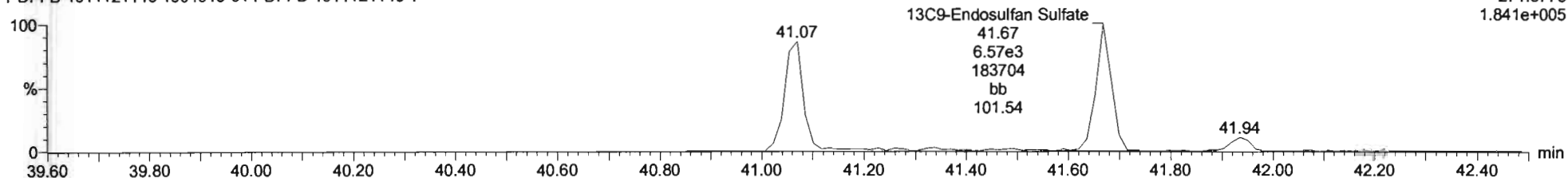
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F5:Voltage SIR,EI+
269.8804
2.446e+005



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F5:Voltage SIR,EI+
271.8775
1.841e+005



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

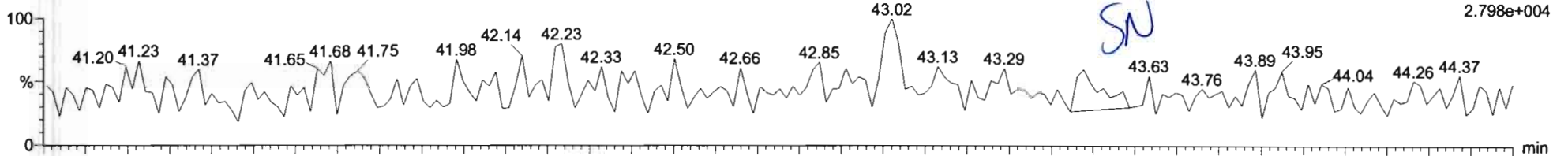
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

4,4'-Methoxychlor

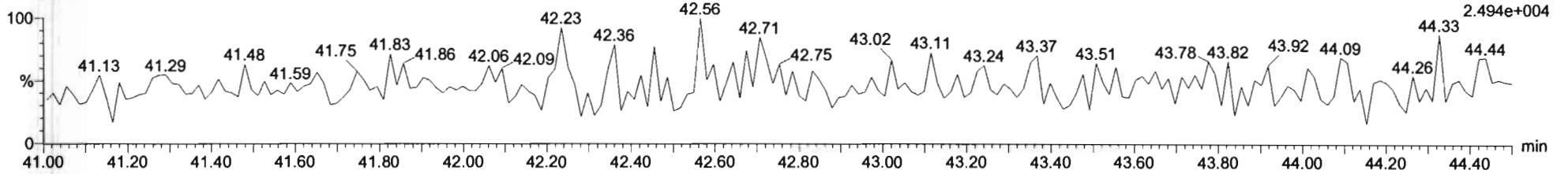
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F5:Voltage SIR,EI+
227.1072
2.798e+004



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

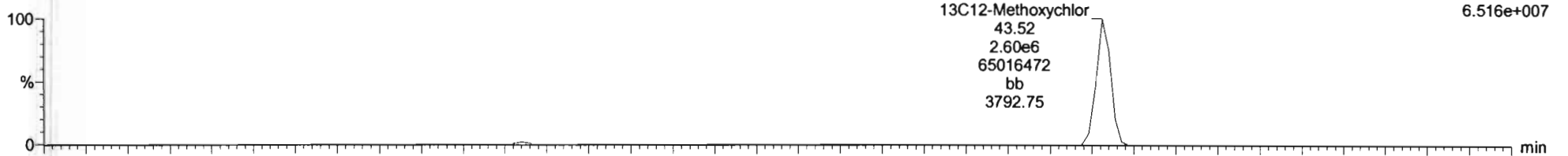
F5:Voltage SIR,EI+
228.1106
2.494e+004



13C12-Methoxychlor

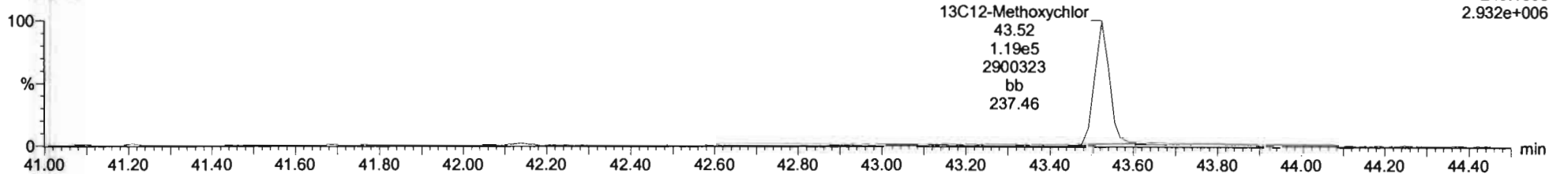
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F5:Voltage SIR,EI+
239.1475
6.516e+007



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F5:Voltage SIR,EI+
240.1508
2.932e+006



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

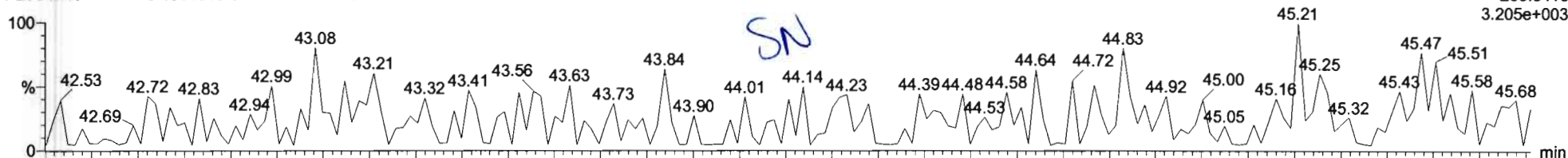
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

Mirex

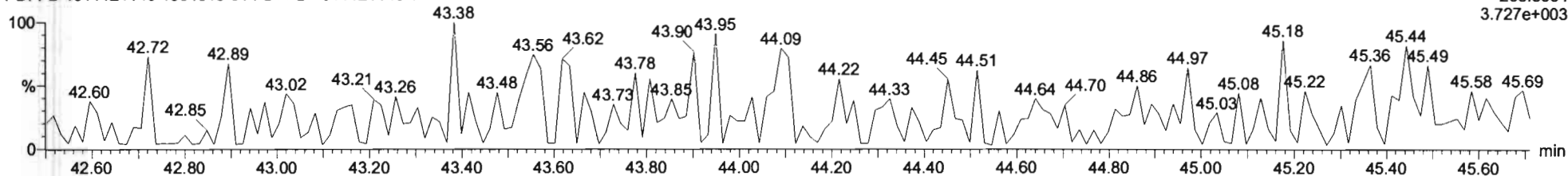
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F5:Voltage SIR,EI+
236.8413
3.205e+003



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

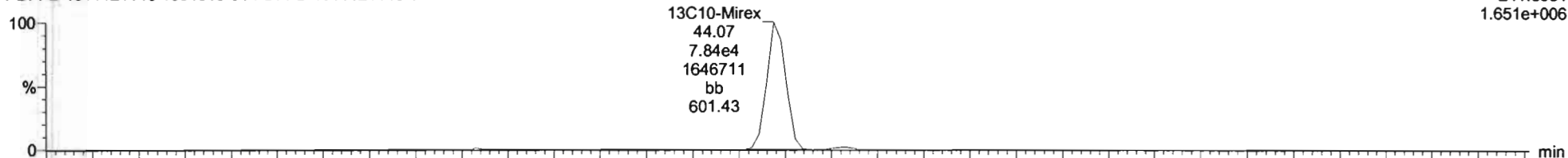
F5:Voltage SIR,EI+
238.8384
3.727e+003



13C10-Mirex

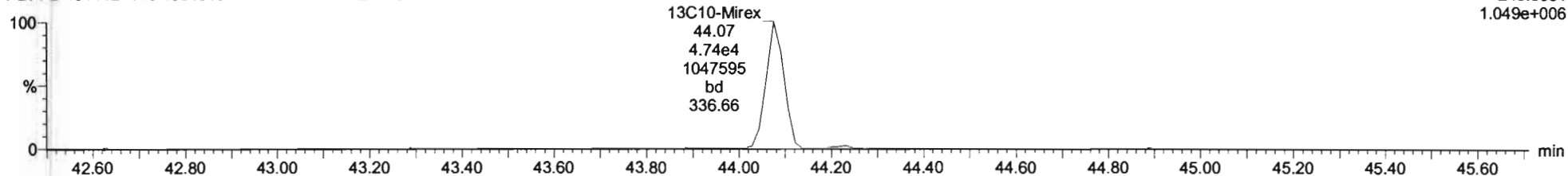
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F5:Voltage SIR,EI+
241.8581
1.651e+006



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F5:Voltage SIR,EI+
243.8551
1.049e+006



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

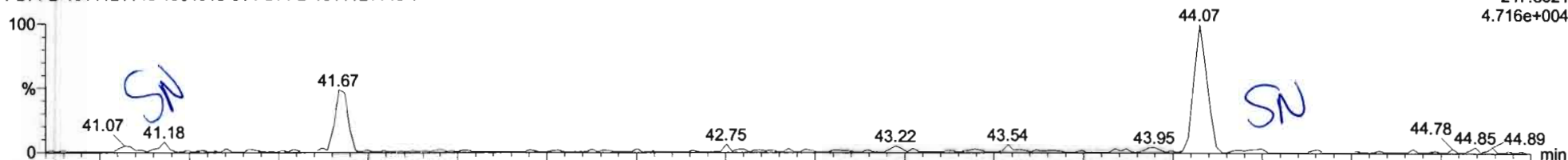
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

EA-EK

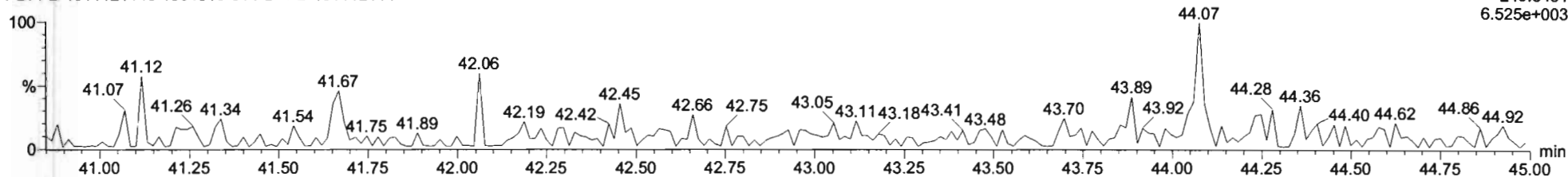
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F5:Voltage SIR,EI+
247.8521
4.716e+004



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

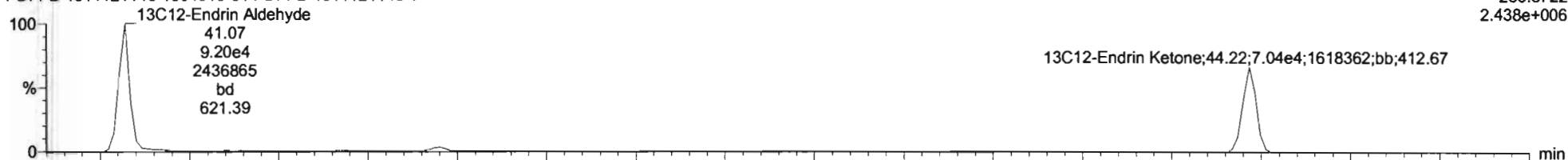
F5:Voltage SIR,EI+
249.8491
6.525e+003



EA-EK-isotopes

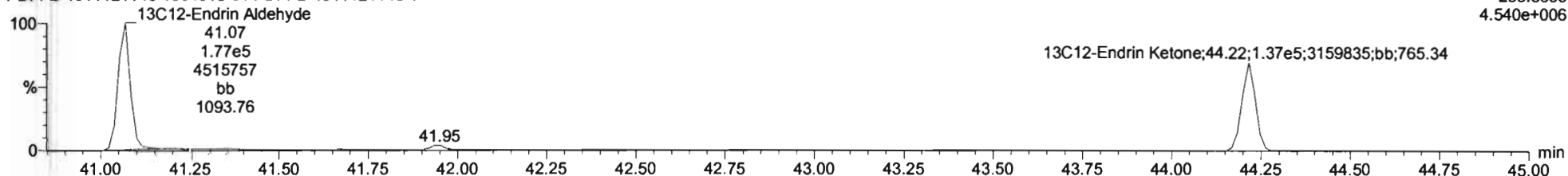
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F5:Voltage SIR,EI+
253.8722
2.438e+006



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F5:Voltage SIR,EI+
255.8693
4.540e+006



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

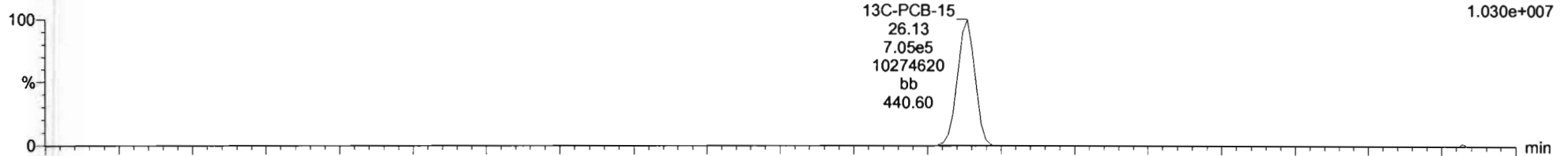
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

13C-PCB-15

191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

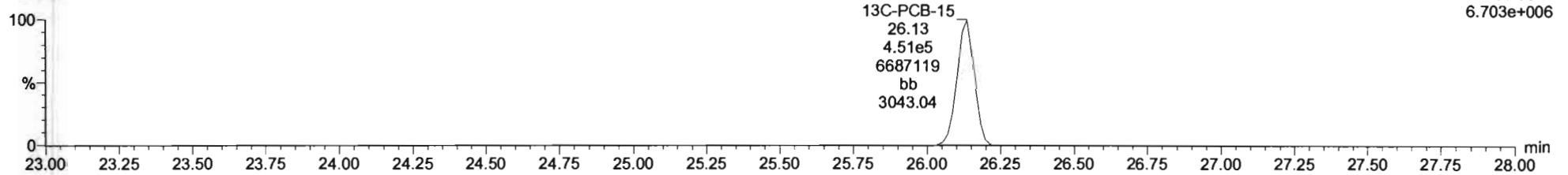
F2:Voltage SIR,EI+
234.0406
1.030e+007



191122K3_14

PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

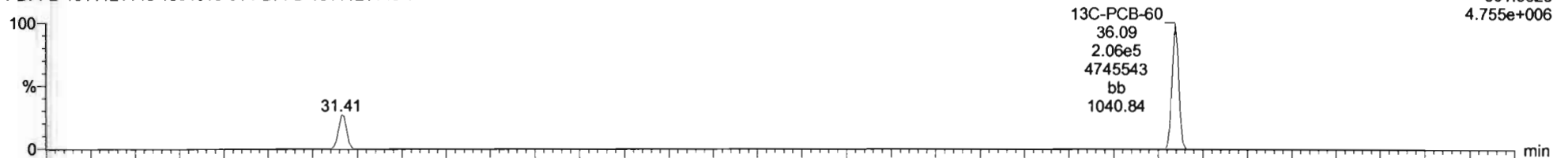
F2:Voltage SIR,EI+
236.0376
6.703e+006



13C-PCB-60

191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

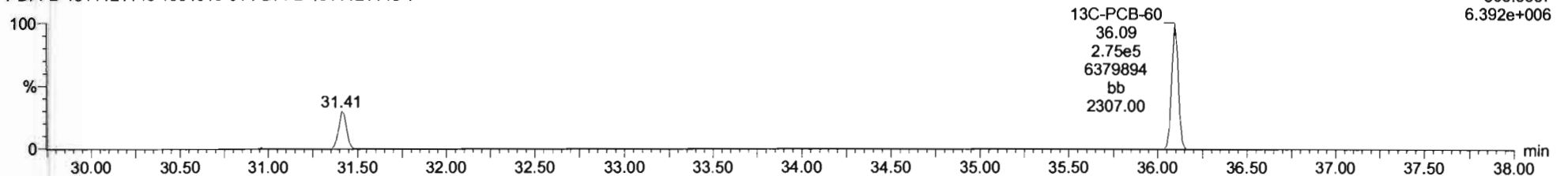
F3:Voltage SIR,EI+
301.9626
4.755e+006



191122K3_14

PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F3:Voltage SIR,EI+
303.9597
6.392e+006



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

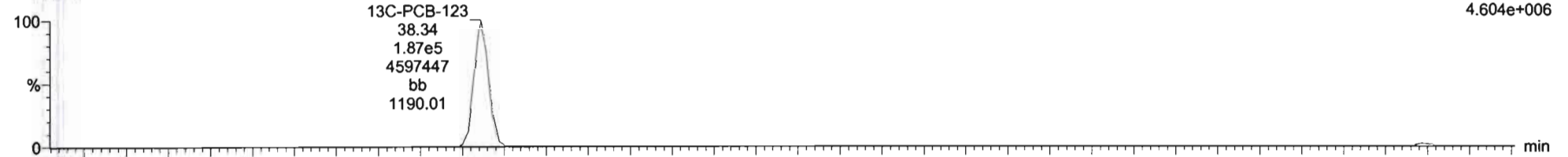
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

13C-PCB-123

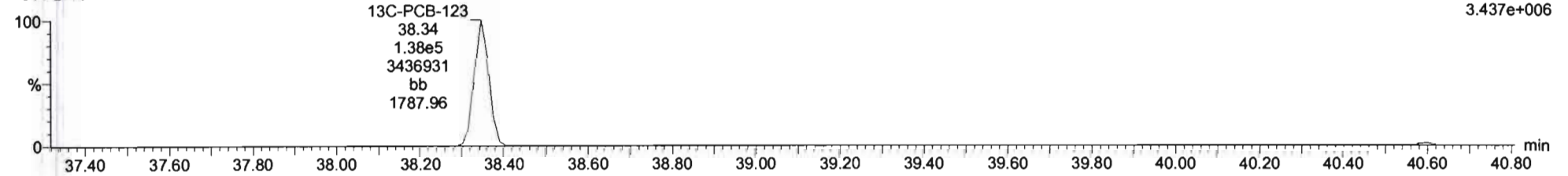
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F4:Voltage SIR,EI+
337.9210
4.604e+006



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

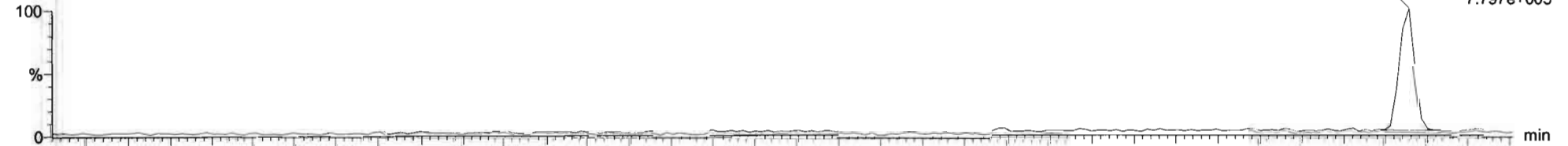
F4:Voltage SIR,EI+
339.9180
3.437e+006



13C-PARLAR 39

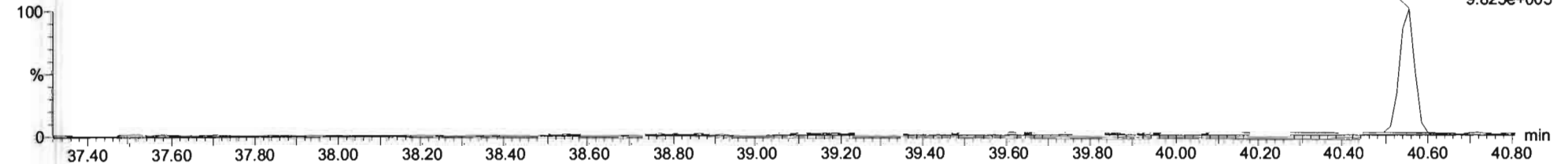
191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F4:Voltage SIR,EI+
251.9648
7.797e+005
13C-PARLAR 39;40.56;3.16e4;752528;bb;56.79



191122K3_14
PDI-FB-1911121146 1904016-01 PDI-FB-1911121146 1

F4:Voltage SIR,EI+
253.9619
9.825e+005
13C-PARLAR 39;40.56;4.03e4;970198;bb;131.46



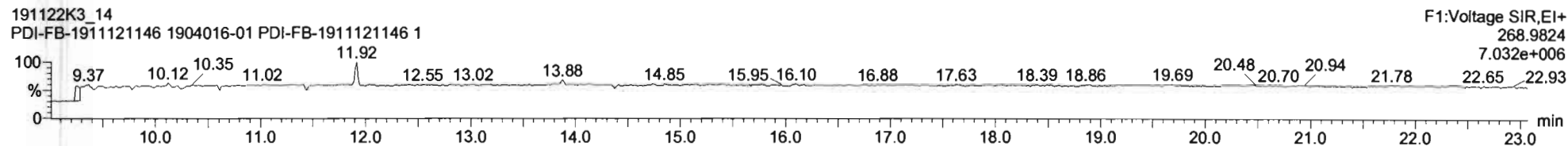
Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

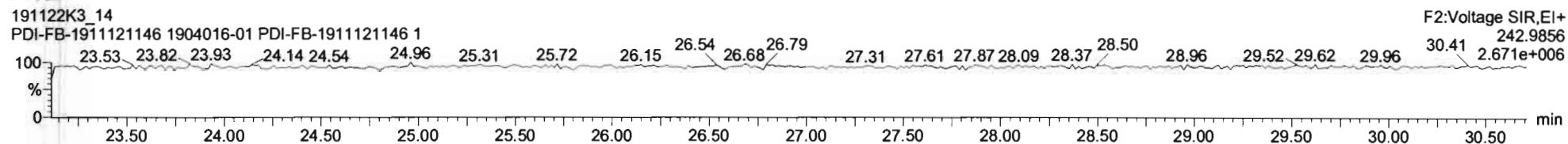
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_14, Date: 23-Nov-2019, Time: 02:43:38, ID: 1904016-01 PDI-FB-1911121146 1, Description: PDI-FB-1911121146

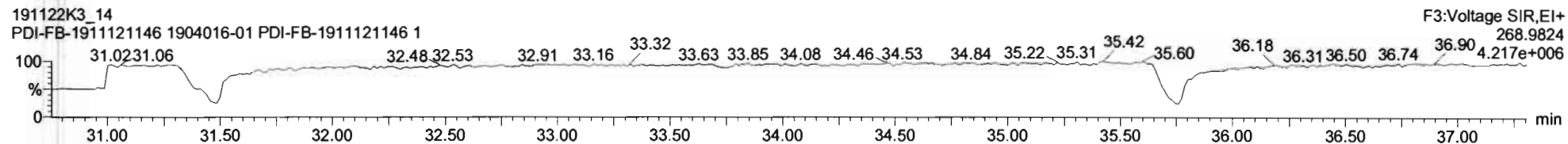
PFK1



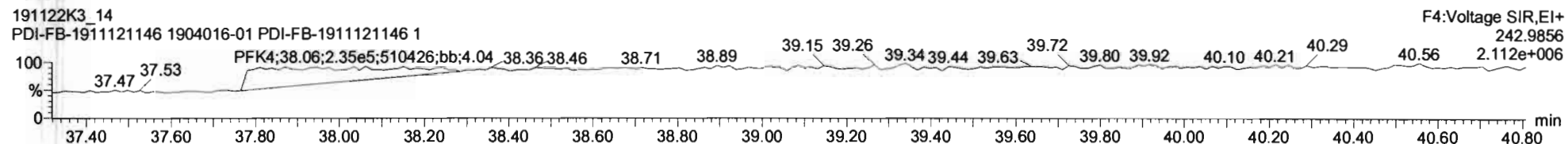
PFK2



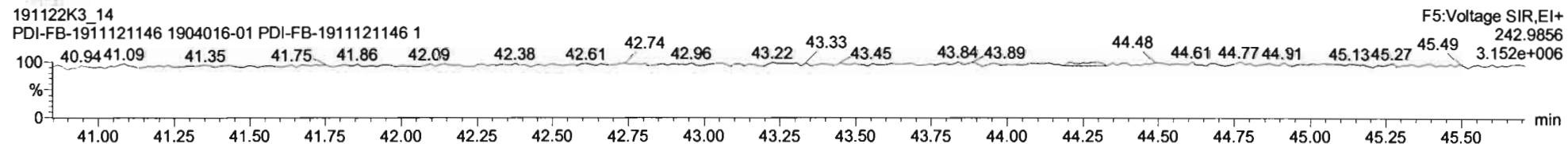
PFK3



PFK4



PFK5



Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-15.qld

Last Altered: Tuesday, November 26, 2019 10:36:30 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:36:44 Pacific Standard Time

GPO 11/26/19

Ci 11/26/19

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_15, Date: 23-Nov-2019, Time: 03:32:14, ID: 1904016-02 PDI-RB-1911120944 1, Description: PDI-RB-1911120944

#	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	5.13e3	3.72e5	1.21	NO	0.874	0.989	22.83	22.83	1.001	1.001	NO	15.9		0.259	15.9
2	3 Alpha-BHC		1.73e5		NO	0.760	0.989	23.40			1.002	YES			4.16	
3	4 Lindane (gamma-BHC)		1.33e5		NO	0.744	0.989	26.65			1.001	YES			6.55	
4	5 Beta-BHC		1.09e5		NO	0.896	0.989	28.71			1.000	YES			5.63	
5	6 Delta-BHC		1.23e5		NO	0.837	0.989	30.41			1.001	YES			4.94	
6	7 Heptachlor		6.14e4		NO	0.968	0.989	28.85			1.001	YES			1.51	
7	9 Aldrin		8.23e4		NO	1.02	0.989	30.99			1.001	YES			2.85	
8	10 Oxychlordane		2.07e4		NO	0.992	0.989	33.58			1.001	YES			11.9	
9	11 cis-Heptachlor Epoxide		2.86e4		NO	1.00	0.989	34.38			1.001	YES			7.44	
10	12 trans-Heptachlor Epox...		2.86e4		NO	0.255	0.989	34.87			1.015	YES			29.2	
11	13 trans-Chlordane (gam...		2.13e4		NO	1.08	0.989	35.28			1.001	YES			9.26	
12	14 trans-Nonachlor		2.43e4		NO	1.00	0.989	35.47			1.001	YES			8.23	
13	15 cis-Chlordane		2.43e4		NO	0.981	0.989	35.96			1.014	YES			8.40	
14	16 Endosulfan I (alpha)		1.53e4		NO	1.11	0.989	36.07			1.001	YES			10.7	
15	18 2,4'-DDE		5.84e5		NO	0.854	0.989	35.94			1.000	YES			2.50	
16	19 4,4'-DDE		4.35e5		NO	0.873	0.989	37.03			1.000	NO			3.20	
17	20 Dieldrin	3.12e2	5.87e4	0.90	YES	0.957	0.989	37.53	37.53	1.000	1.000	NO	5.02		4.55	4.37
18	21 Endrin		3.27e4		NO	0.933	0.989	38.91			1.000	YES			7.67	
19	22 cis-Nonachlor		2.76e4		NO	0.956	0.989	39.22			1.000	YES			8.94	
20	23 Endosulfan II (beta)		8.83e3		NO	1.06	0.989	39.93			1.000	YES			25.9	
21	24 2,4'-DDD		5.72e5		NO	0.915	0.989	38.15			1.000	NO			3.39	
22	25 2,4'-DDT		3.38e5		NO	0.921	0.989	39.30			1.000	NO			5.82	
23	26 4,4'-DDD		4.60e5		NO	1.00	0.989	39.43			1.000	NO			3.58	
24	27 4,4'-DDT		2.73e5		NO	0.986	0.989	40.50			1.000	YES			5.94	
25	28 Endosulfan Sulfate		1.17e4		NO	0.928	0.989	41.65			1.000	YES			20.8	
26	29 4,4'-Methoxychlor		2.28e6		NO	1.14	0.989	43.53			1.000	YES			6.50	
27	30 Mirex		1.06e5		NO	0.932	0.989	44.10			1.000	YES			3.82	
28	31 Endrin Aldehyde		1.72e5		NO	0.887	0.989	41.07			1.000	YES			15.5	
29	32 Endrin Ketone		1.75e5		NO	0.911	0.989	44.20			1.000	YES			17.5	
30	34 13C6-Hexachlorobenz...	3.72e5	9.23e5	1.28	NO	0.691	0.989	22.82	22.81	0.873	0.874	NO	589	58.3	0.195	

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Last Altered: Tuesday, November 26, 2019 10:36:30 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:36:44 Pacific Standard Time

Name: 191122K3_15, Date: 23-Nov-2019, Time: 03:32:14, ID: 1904016-02 PDI-RB-1911120944 1, Description: PDI-RB-1911120944

	# 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	1.73e5	9.23e5	0.78	NO	0.246	0.989	23.37	23.35	0.894	0.895	NO	771	76.3	4.11	
32	36 13C6-Lindane (gamma)	1.33e5	9.23e5	0.79	NO	0.189	0.989	26.63	26.62	1.019	1.020	NO	773	76.4	5.34	
33	37 13C6-Beta-BHC	1.09e5	9.23e5	0.77	NO	0.141	0.989	28.68	28.70	1.099	1.098	NO	845	83.6	7.18	
34	38 13C6-Delta-BHC	1.23e5	9.23e5	0.79	NO	0.164	0.989	30.38	30.39	1.164	1.163	NO	817	80.9	6.14	
35	39 13C10-Heptachlor	6.14e4	9.23e5	1.26	NO	0.0770	0.989	28.81	28.82	1.103	1.103	NO	873	86.4	2.70	
36	40 13C12-Aldrin	8.23e4	9.23e5	1.70	NO	0.122	0.989	30.93	30.96	1.185	1.184	NO	741	73.3	4.65	
37	41 13C10-Oxychlorane	2.07e4	9.23e5	1.76	NO	0.0283	0.989	33.53	33.56	1.285	1.284	NO	800	79.1	20.0	
38	42 13C10-cis-Heptachlor ...	2.86e4	9.23e5	1.51	NO	0.0366	0.989	34.32	34.36	1.315	1.314	NO	853	84.4	15.4	
39	43 13C10-trans-Chlordan...	2.13e4	9.23e5	1.68	NO	0.0292	0.989	35.23	35.26	1.350	1.349	NO	798	78.9	19.4	
40	44 13C10-trans-Nonachlor	2.43e4	9.23e5	1.61	NO	0.0333	0.989	35.42	35.45	1.357	1.356	NO	797	78.9	16.9	
41	45 13C9-Endosulfan I (al...	1.53e4	9.23e5	1.62	NO	0.0212	0.989	36.00	36.05	1.380	1.378	NO	792	78.3	26.6	
42	46 13C12-2,4'-DDE	5.84e5	9.23e5	1.62	NO	0.763	0.989	35.95	35.93	0.996	0.996	NO	837	82.8	5.19	
43	47 13C12-4,4'-DDE	4.35e5	9.23e5	1.60	NO	0.552	0.989	37.01	37.01	1.025	1.026	NO	863	85.4	7.18	
44	48 13C12-Dieldrin	5.87e4	9.23e5	1.63	NO	0.0749	0.989	37.51	37.51	1.039	1.039	NO	857	84.8	7.89	
45	49 13C12-Endrin	3.27e4	9.23e5	1.56	NO	0.0351	0.989	38.92	38.91	1.078	1.078	NO	1020	101	16.8	
46	50 13C10-cis-Nonachlor	2.76e4	9.23e5	1.65	NO	0.0389	0.989	39.20	39.21	1.086	1.086	NO	777	76.8	15.2	
47	51 13C9-Endosulfan II	8.83e3	9.23e5	1.37	NO	0.0112	0.989	39.93	39.93	1.106	1.106	NO	863	85.4	52.8	
48	52 13C12-2,4'-DDD	5.72e5	9.23e5	1.59	NO	0.588	0.989	38.10	38.15	1.461	1.459	NO	1060	105	3.99	
49	53 13C12-2,4'-DDT	3.38e5	9.23e5	1.61	NO	0.370	0.989	39.23	39.28	1.504	1.502	NO	999	98.8	6.34	
50	54 13C12-4,4'-DDD	4.60e5	9.23e5	1.60	NO	0.473	0.989	39.35	39.41	1.509	1.507	NO	1060	105	4.97	
51	55 13C12-4,4'-DDT	2.73e5	9.23e5	1.62	NO	0.280	0.989	40.41	40.48	1.550	1.547	NO	1060	105	8.38	
52	56 13C9-Endosulfan Sulf...	1.17e4	9.23e5	1.49	NO	0.0173	0.989	41.66	41.65	1.154	1.154	NO	738	73.0	38.5	
53	57 13C12-Methoxychlor	2.28e6	9.23e5	21.54	NO	0.257	0.989	43.53	43.52	1.206	1.206	NO	9710	96.0	24.9	
54	58 13C10-Mirex	1.06e5	9.23e5	1.64	NO	0.164	0.989	44.08	44.07	1.221	1.221	NO	708	70.1	6.40	
55	59 13C12-Endrin Aldehyde	1.72e5	9.23e5	0.48	NO	0.0345	0.989	41.06	41.05	1.137	1.138	NO	5460	54.0	36.6	
56	60 13C12-Endrin Ketone	1.75e5	9.23e5	0.53	NO	0.0222	0.989	44.22	44.20	1.225	1.225	NO	8630	85.4	56.9	
57	62 13C-PCB-15	9.23e5	9.23e5	1.58	NO	1.00	0.989	26.18	26.12	1.000	1.000	NO	1010	100	0.998	

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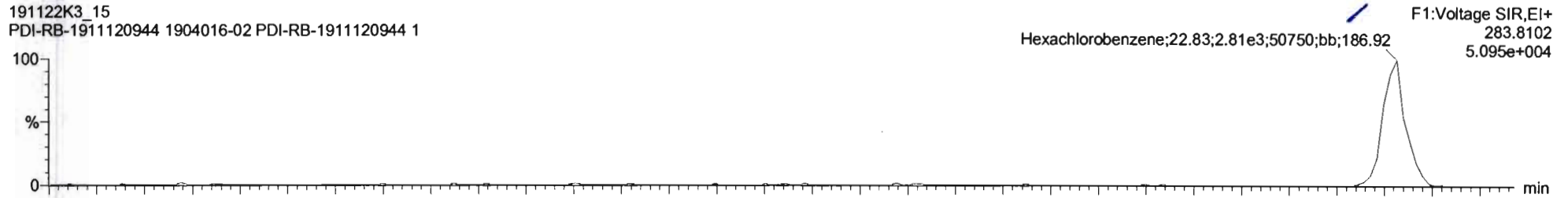
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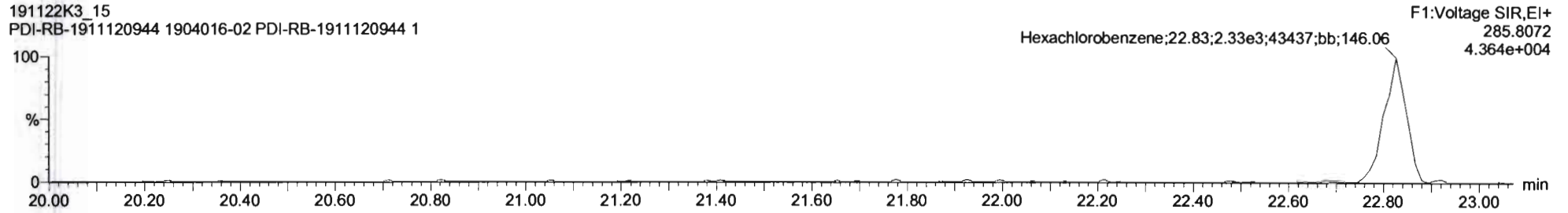
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Hexachlorobenzene

191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

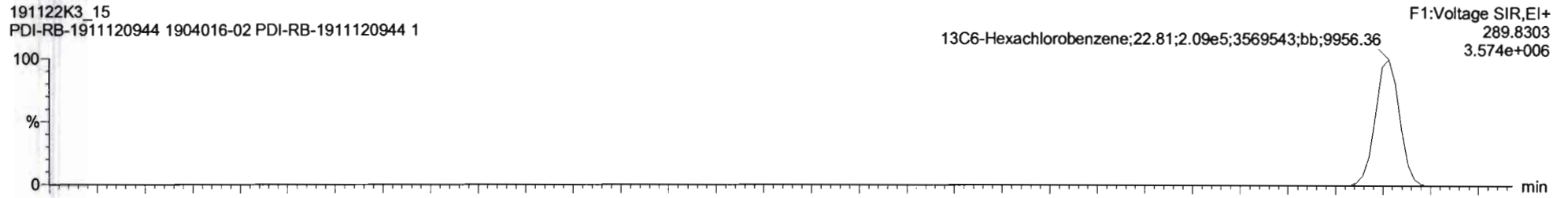


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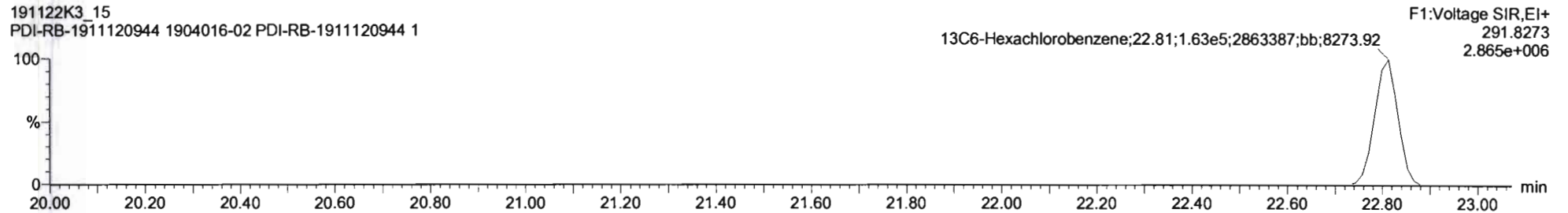


13C6-Hexachlorobenzene

191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1



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Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

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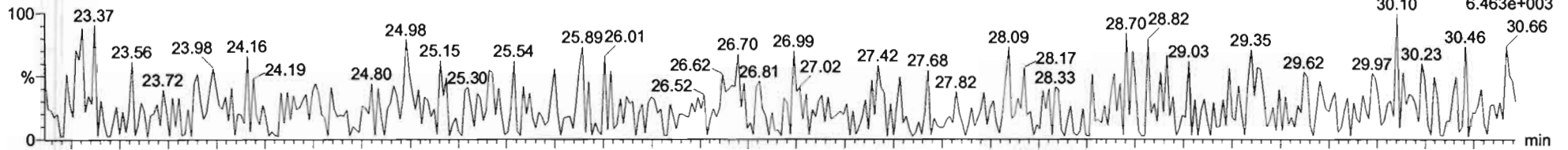
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BHC Totals

191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

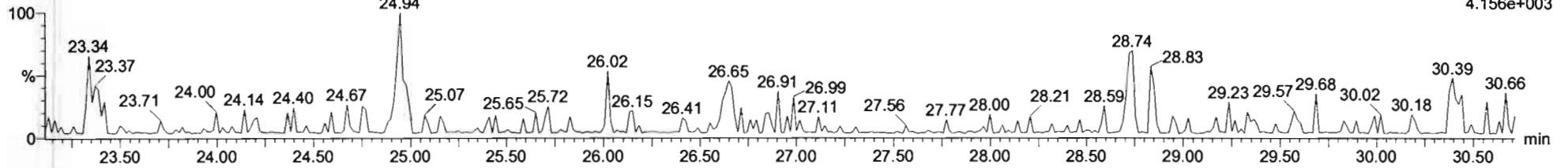
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F2:Voltage SIR,EI+
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6.463e+003



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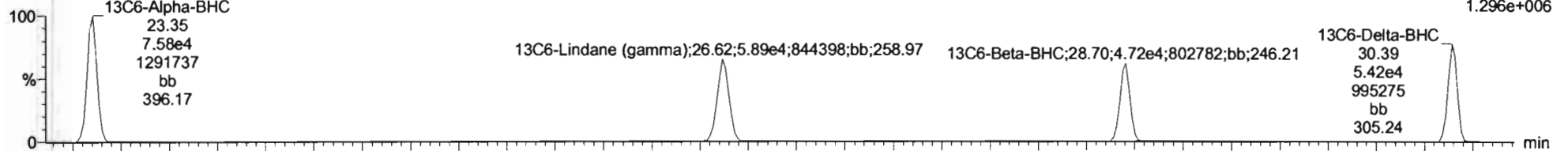
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4.156e+003



BHC-isotopes

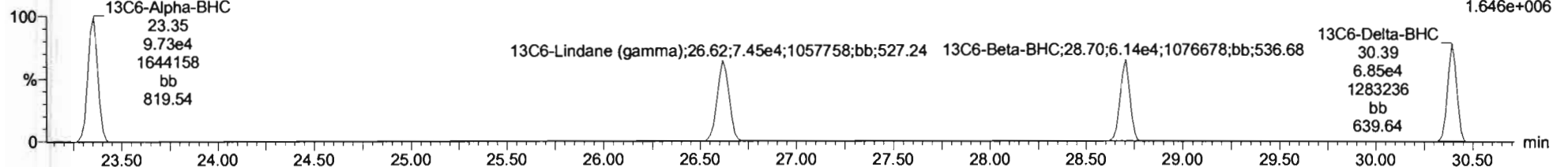
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PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F2:Voltage SIR,EI+
222.9346
1.296e+006



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F2:Voltage SIR,EI+
224.9317
1.646e+006



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

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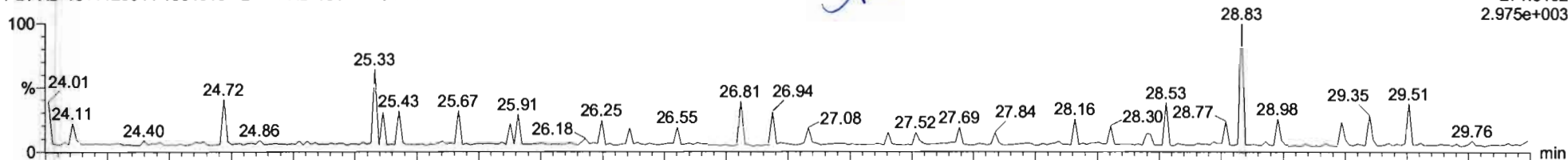
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Heptachlor

191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

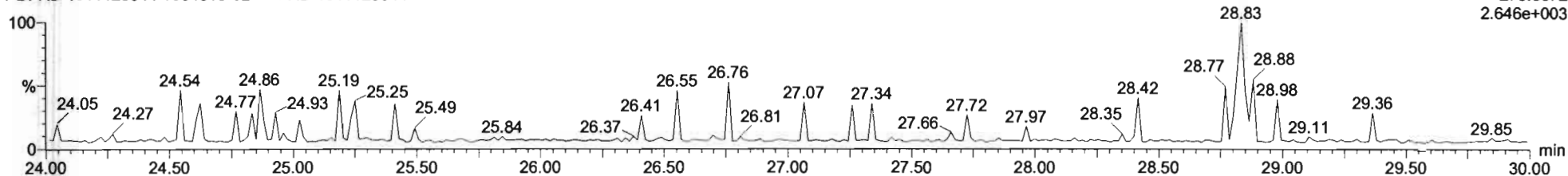
SU

F2:Voltage SIR,EI+
271.8102
2.975e+003



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

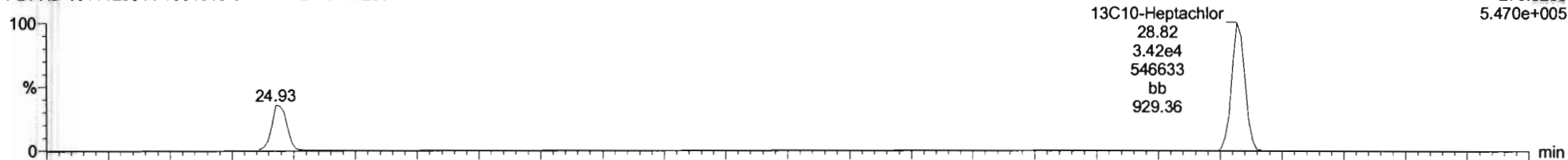
F2:Voltage SIR,EI+
273.8072
2.646e+003



13C10-Heptachlor

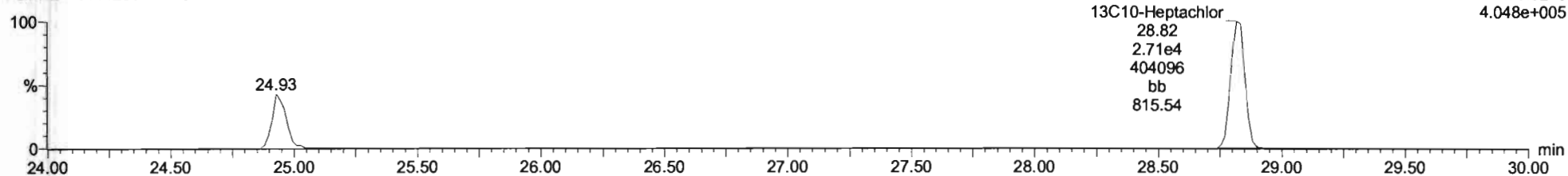
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F2:Voltage SIR,EI+
276.8269
5.470e+005



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F2:Voltage SIR,EI+
278.8240
4.048e+005



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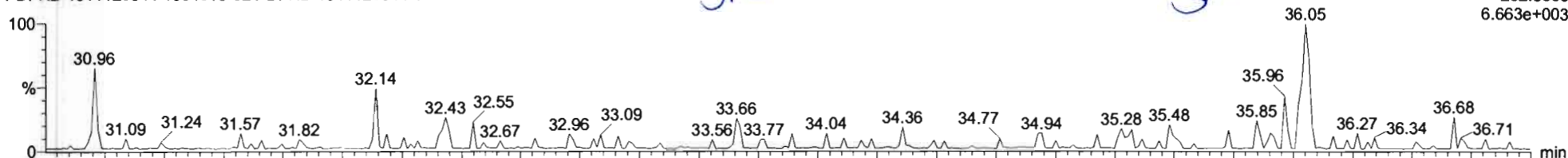
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Aldrin-EI

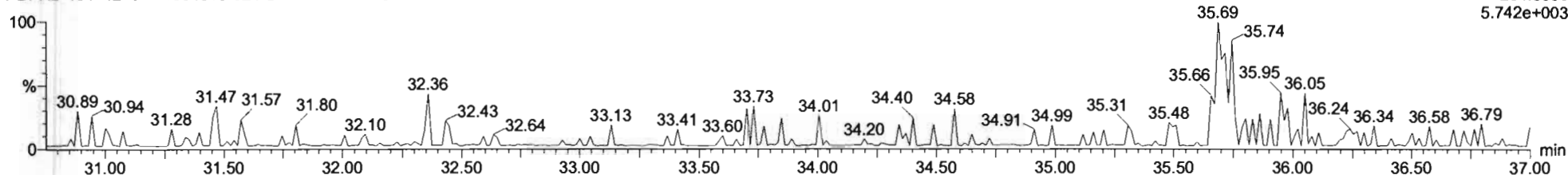
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PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F3:Voltage SIR,EI+
262.8569
6.663e+003



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

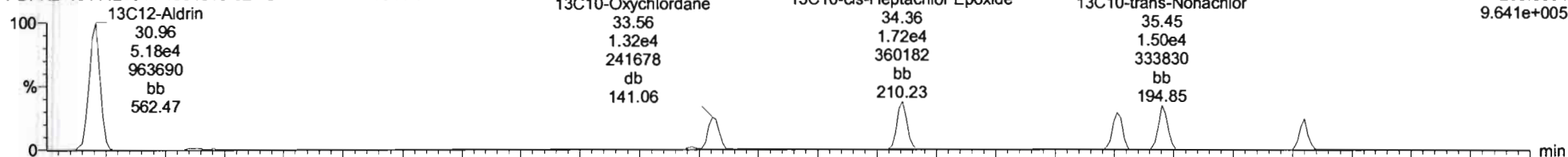
F3:Voltage SIR,EI+
264.8550
5.742e+003



Aldrin-EI-isotopes

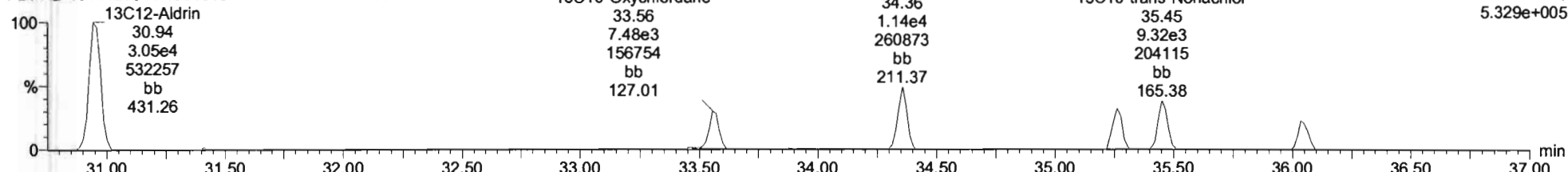
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F3:Voltage SIR,EI+
269.8804
9.641e+005



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F3:Voltage SIR,EI+
271.8775
5.329e+005



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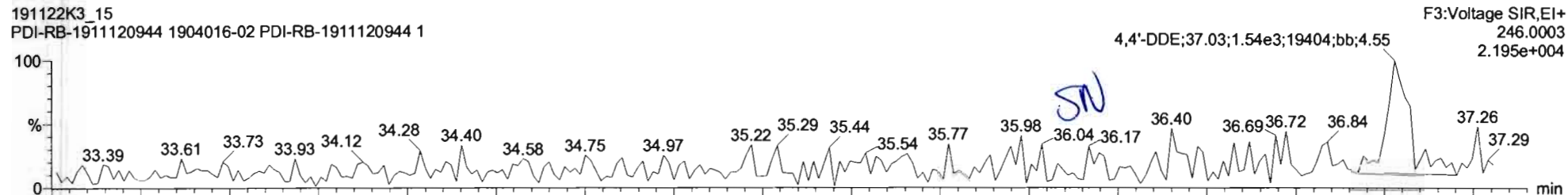
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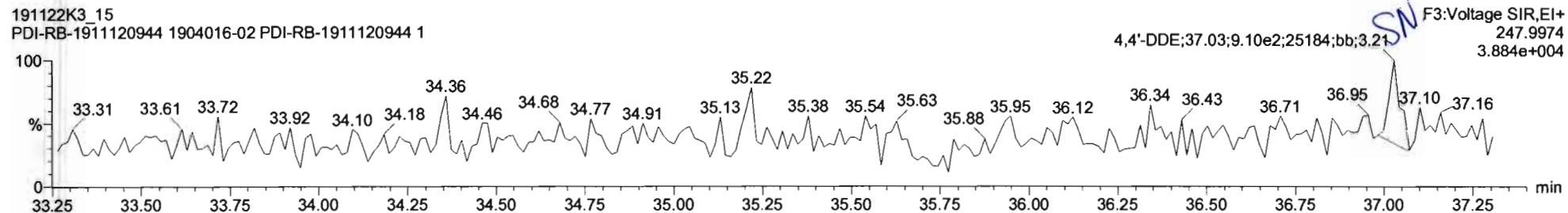
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DDMU-DDE

191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

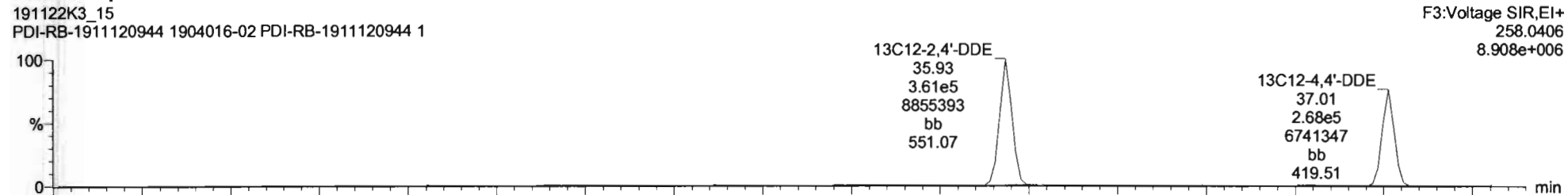


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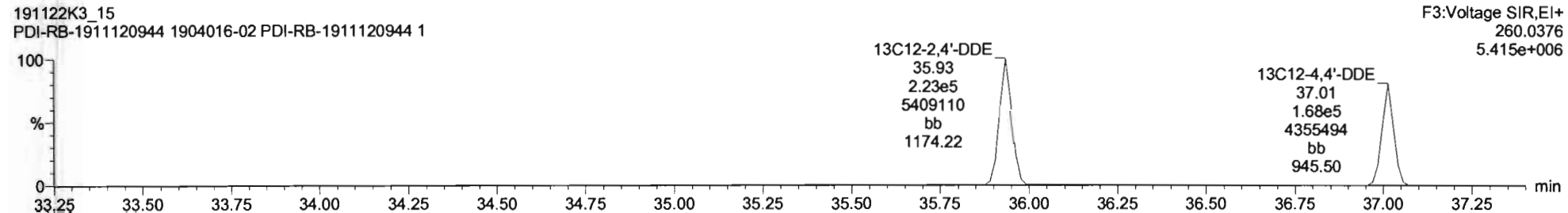


DDE-isotopes

191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

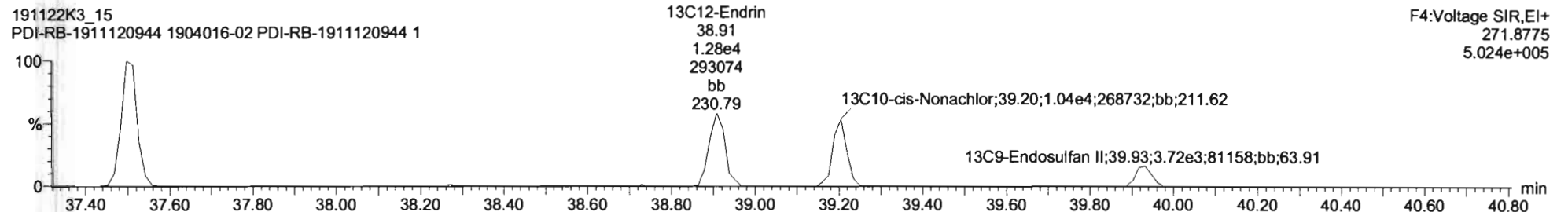
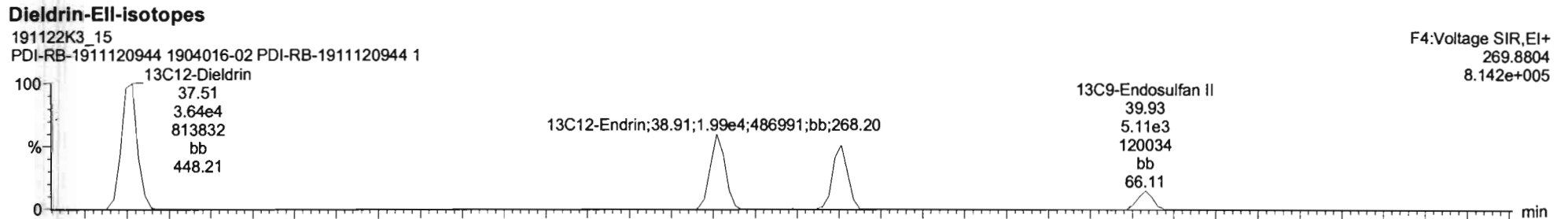
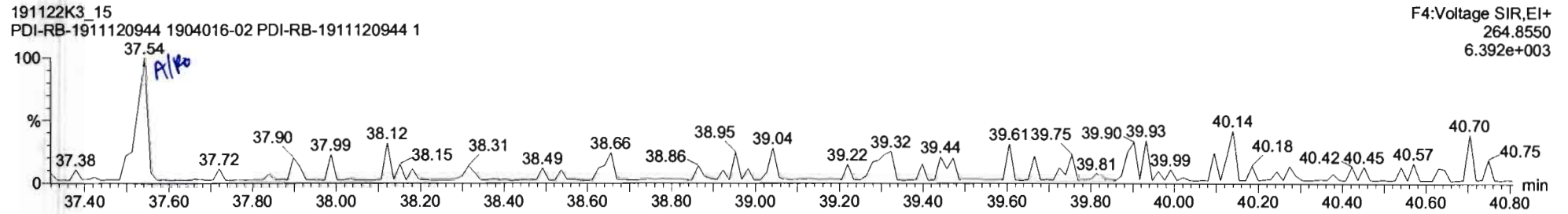
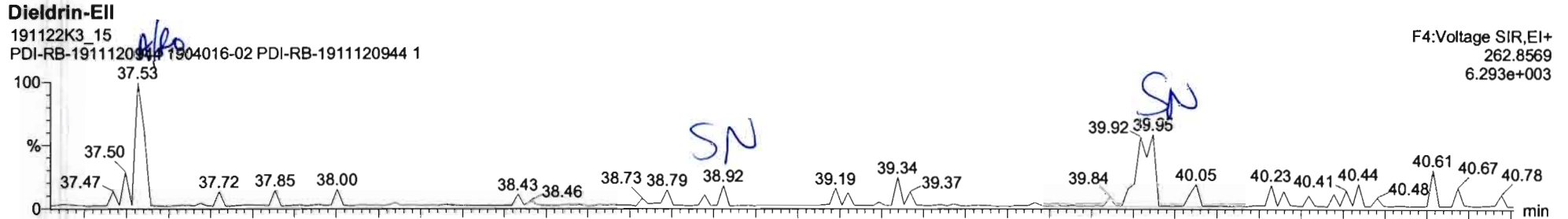


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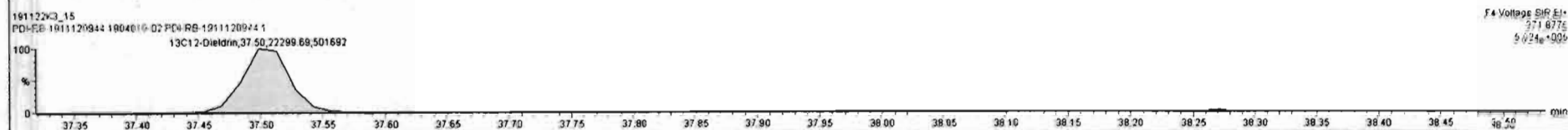
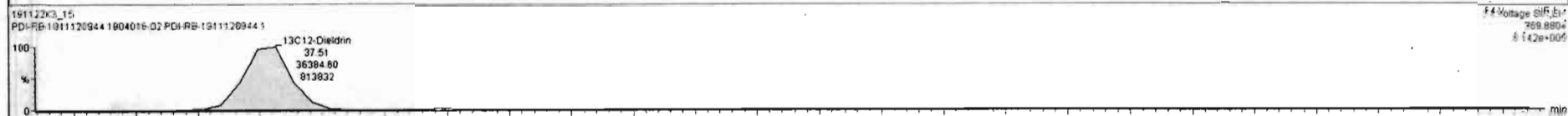
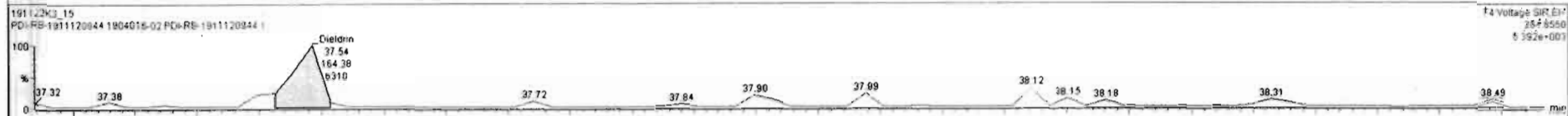
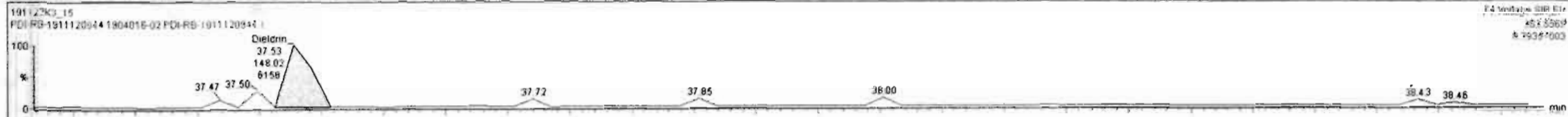
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Name: 191122K3_15, Date: 23-Nov-2019, Time: 03:32:14, ID: 1904016-02 PDI-RB-1911120944 1, Description: PDI-RB-1911120944



#	Name	Resp	IS Resp	ISf	RA	inj	RRF	wtAnd	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EWPC
16	2,4'-DOE		5.84e5	46		NO	0.8542	0.989	35.94			1.000	YES			2.50	
18	4,4'-DOE		4.35e5	47		NO	0.8728	0.999	37.03			1.000	NO			3.20	
20	Dieldrin	3.12e2	5.87e4	48	0.90	YES	0.8570	0.989	37.53	37.53	1.000	1.000	NO	5.82		4.45	4.37
21	Endrin		3.27e4	49		NO	0.9326	0.989	38.91			1.000	YES			7.67	
22	cis-Nonachlor		2.76e4	50		NO	0.9556	0.989	38.22			1.000	YES			8.94	
23	Endosulfan II (beta)		8.83e3	51		NO	1.0639	0.989	39.93			1.000	YES			25.9	
24	2,4'-DDD	2.24e3	5.72e5	52	0.54	YES	0.9153	0.989	38.15	38.17	1.000	1.000	NO	4.32		3.39	2.48
25	2,4'-DDT	5.23e2	3.38e5	53		NO	0.9205	0.989	38.30	38.26	1.000	1.000	NO	1.70		5.82	0.000
26	4,4'-DDD	2.84e3	4.60e5	54	1.27	NO	1.0039	0.989	39.43	39.43	1.000	1.000	NO	5.78		3.58	5.78
27	4,4'-DDT		2.73e5	55		NO	0.9865	0.989	40.50			1.000	YES			5.94	
28	Endosulfan Sulfate		1.17e4	56		NO	0.9279	0.989	41.65			1.000	YES			20.8	
29	4,4'-Methoxychlor		2.28e6	57		NO	1.1362	0.989	43.53			1.000	YES			6.50	
30	Mirex		1.06e5	58		NO	0.9323	0.989	44.10			1.000	YES			3.82	
31	Endrin Aldehyde		1.72e5	59		NO	0.8867	0.989	41.07			1.000	YES			15.5	
32	Endrin Ketone		1.75e5	60		NO	0.9108	0.989	44.20			1.000	YES			17.5	
33	13C6-Hexachlorobutadi.	4.68e5	9.23e5	62	1.27	NO	0.1362	0.989	10.19	10.20	0.391	0.390	NO	3710	36.7	0.953	
34	13C6-Hexachlorobenz.	3.72e5	9.23e5	62	1.26	NO	0.6911	0.989	22.82	22.81	0.873	0.874	NO	589	58.3	0.195	



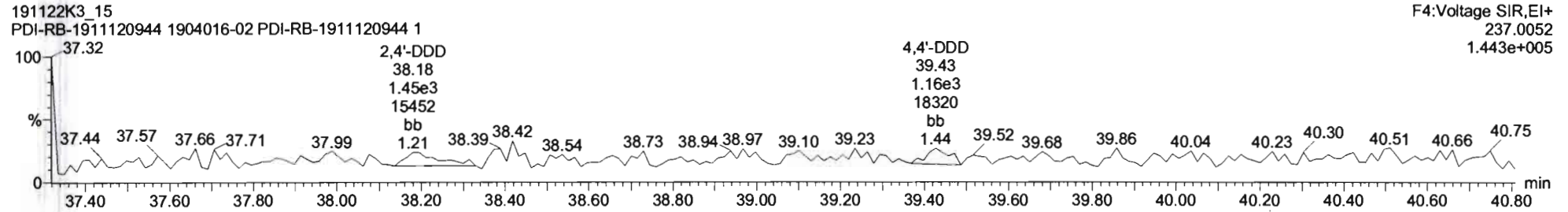
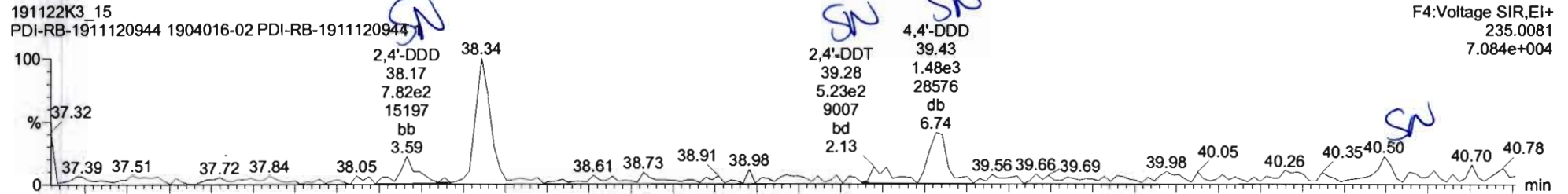
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Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

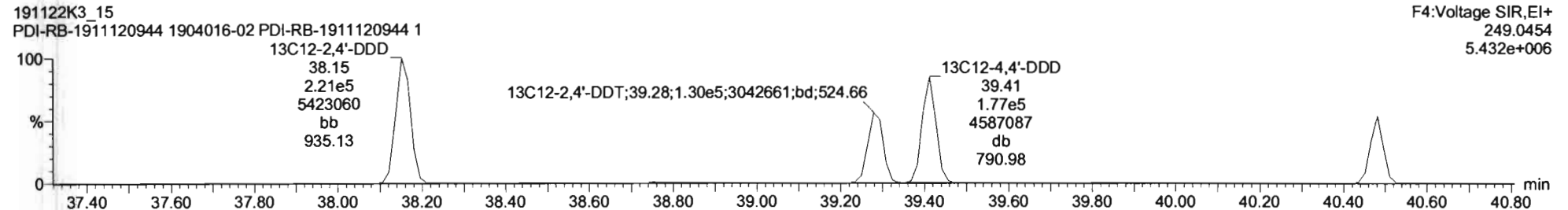
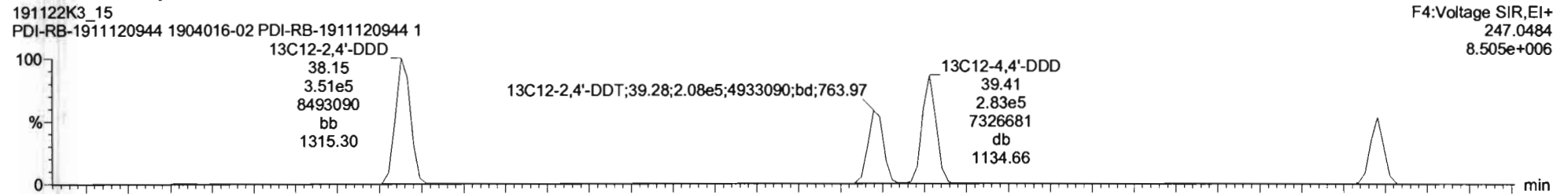
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_15, Date: 23-Nov-2019, Time: 03:32:14, ID: 1904016-02 PDI-RB-1911120944 1, Description: PDI-RB-1911120944

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

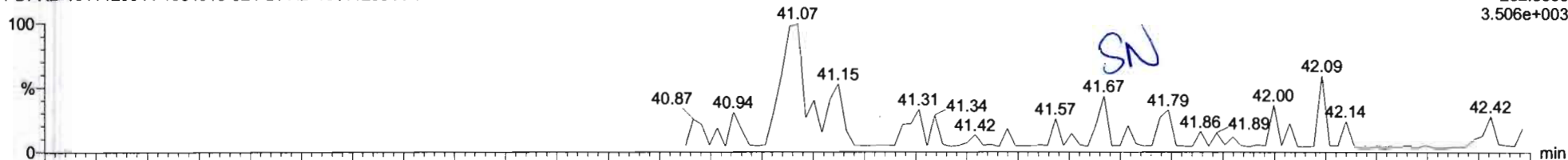
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_15, Date: 23-Nov-2019, Time: 03:32:14, ID: 1904016-02 PDI-RB-1911120944 1, Description: PDI-RB-1911120944

Endosulfan Sulfate

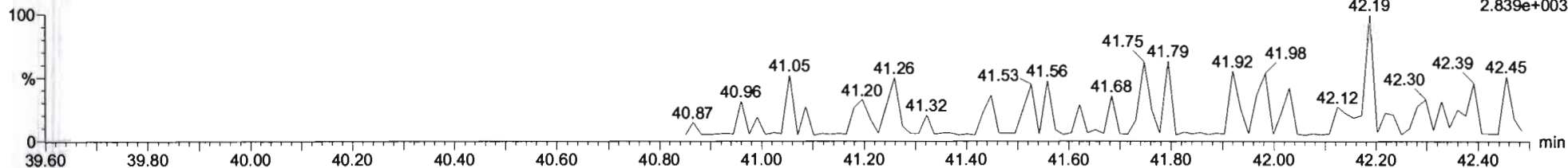
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F5:Voltage SIR,EI+
262.8569
3.506e+003



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

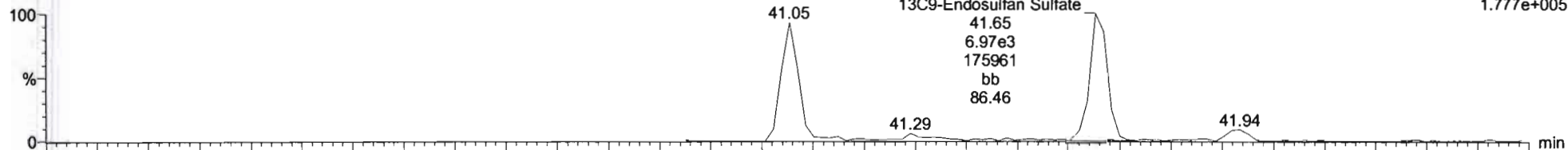
F5:Voltage SIR,EI+
264.8540
2.839e+003



13C9-Endosulfan Sulfate

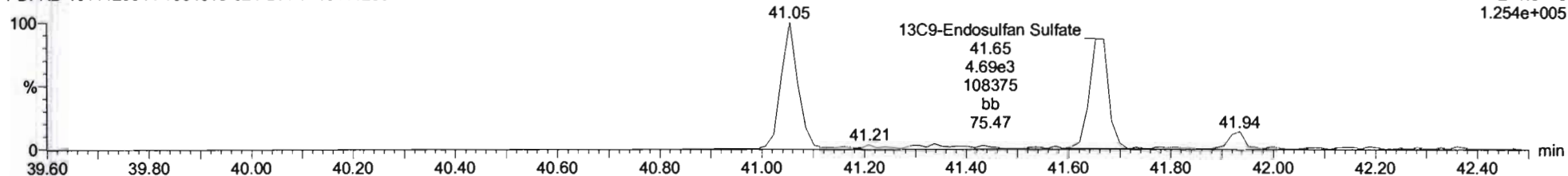
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F5:Voltage SIR,EI+
269.8804
1.777e+005



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F5:Voltage SIR,EI+
271.8775
1.254e+005



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

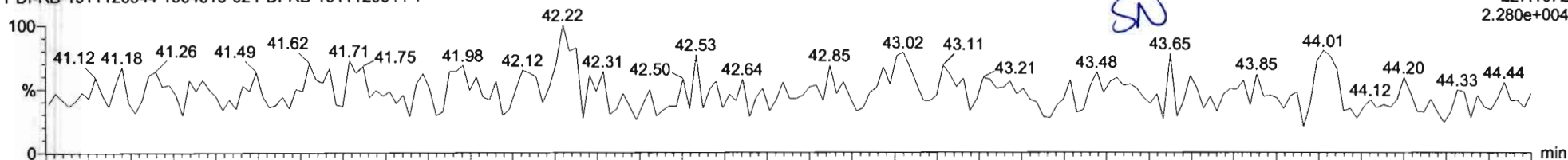
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_15, Date: 23-Nov-2019, Time: 03:32:14, ID: 1904016-02 PDI-RB-1911120944 1, Description: PDI-RB-1911120944

4,4'-Methoxychlor

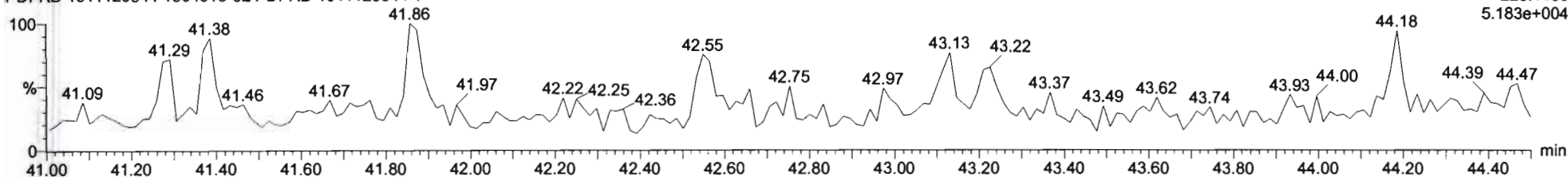
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F5:Voltage SIR,EI+
227.1072
2.280e+004



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

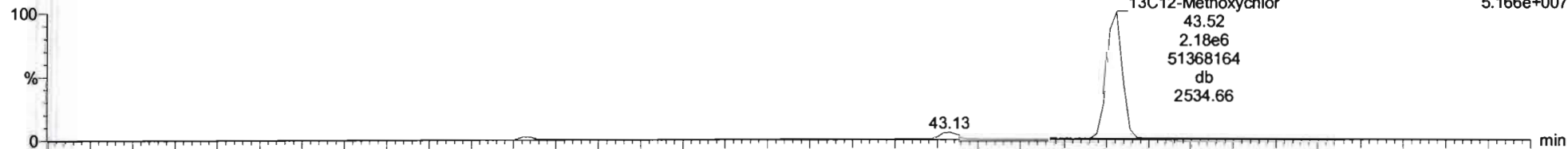
F5:Voltage SIR,EI+
228.1106
5.183e+004



13C12-Methoxychlor

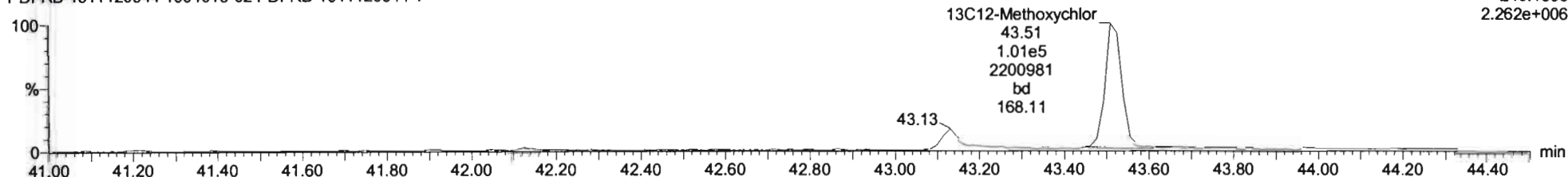
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F5:Voltage SIR,EI+
239.1475
5.166e+007



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F5:Voltage SIR,EI+
240.1508
2.262e+006



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

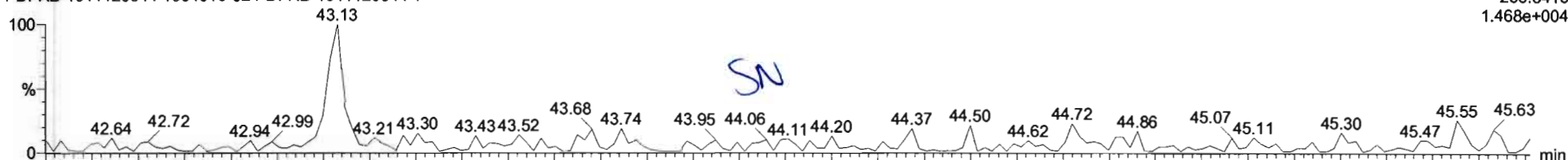
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_15, Date: 23-Nov-2019, Time: 03:32:14, ID: 1904016-02 PDI-RB-1911120944 1, Description: PDI-RB-1911120944

Mirex

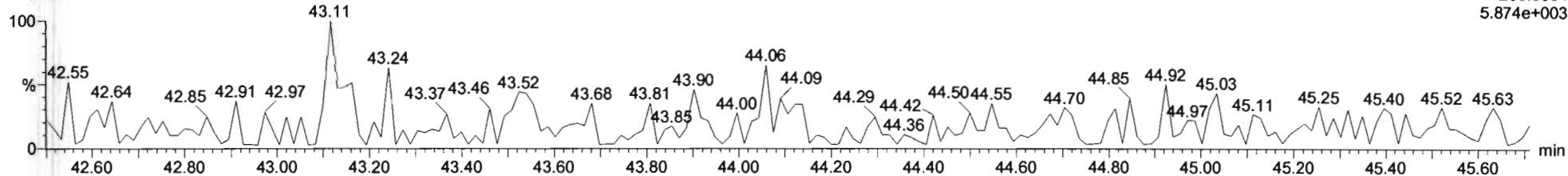
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F5:Voltage SIR,EI+
236.8413
1.468e+004



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

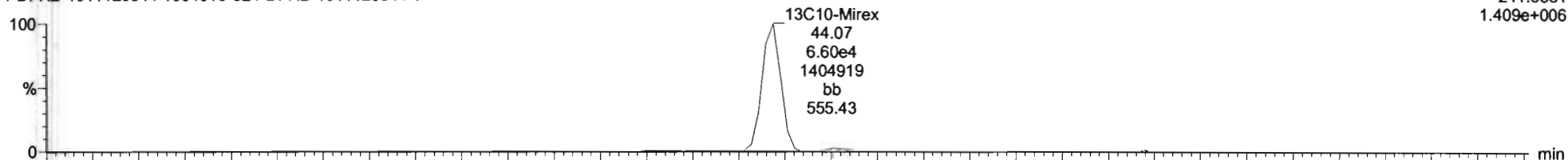
F5:Voltage SIR,EI+
238.8384
5.874e+003



13C10-Mirex

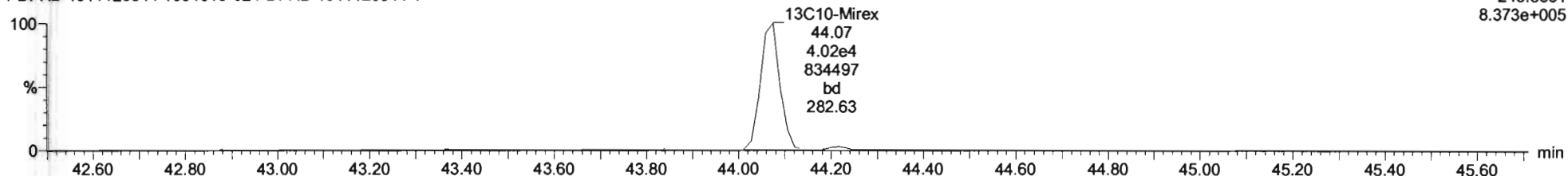
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F5:Voltage SIR,EI+
241.8581
1.409e+006



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F5:Voltage SIR,EI+
243.8551
8.373e+005



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

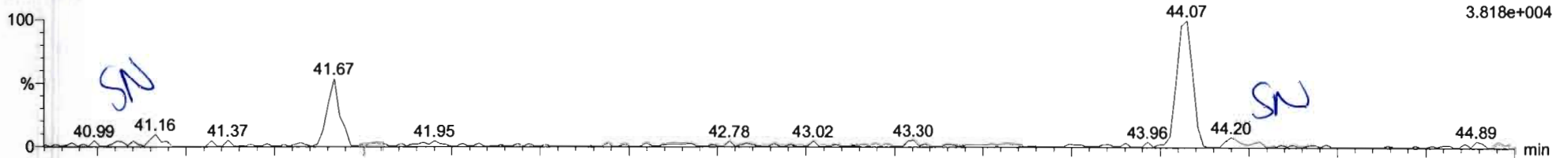
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_15, Date: 23-Nov-2019, Time: 03:32:14, ID: 1904016-02 PDI-RB-1911120944 1, Description: PDI-RB-1911120944

EA-EK

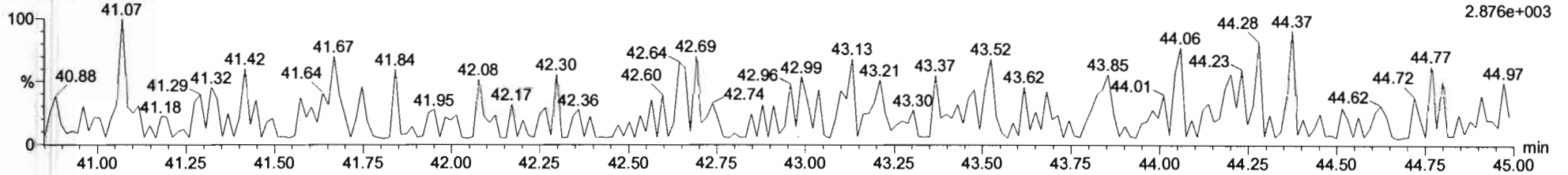
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F5:Voltage SIR,EI+
247.8521
3.818e+004



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

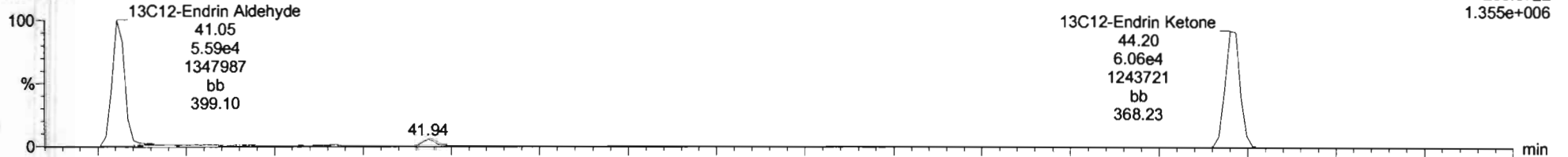
F5:Voltage SIR,EI+
249.8491
2.876e+003



EA-EK-isotopes

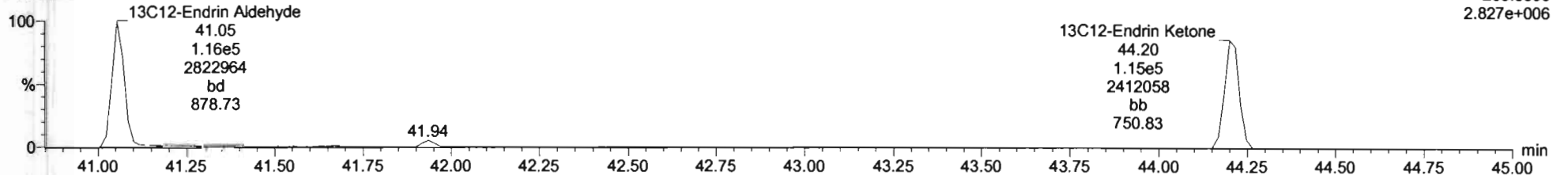
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F5:Voltage SIR,EI+
253.8722
1.355e+006



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F5:Voltage SIR,EI+
255.8693
2.827e+006



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

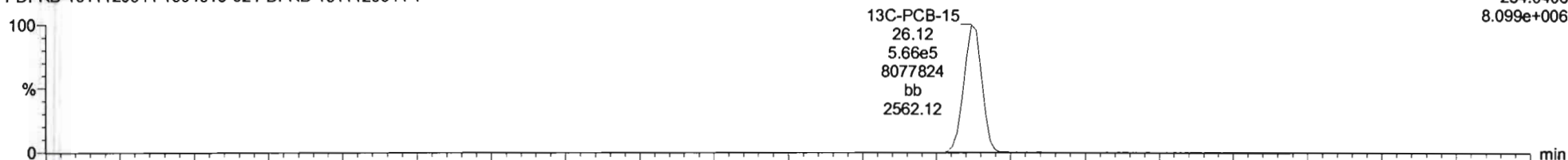
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_15, Date: 23-Nov-2019, Time: 03:32:14, ID: 1904016-02 PDI-RB-1911120944 1, Description: PDI-RB-1911120944

13C-PCB-15

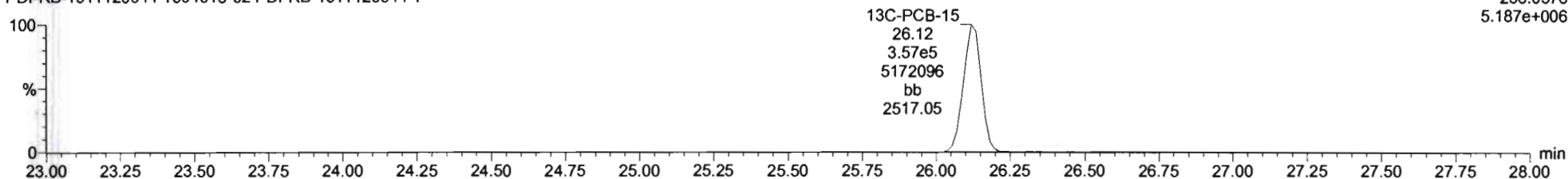
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F2:Voltage SIR,EI+
234.0406
8.099e+006



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

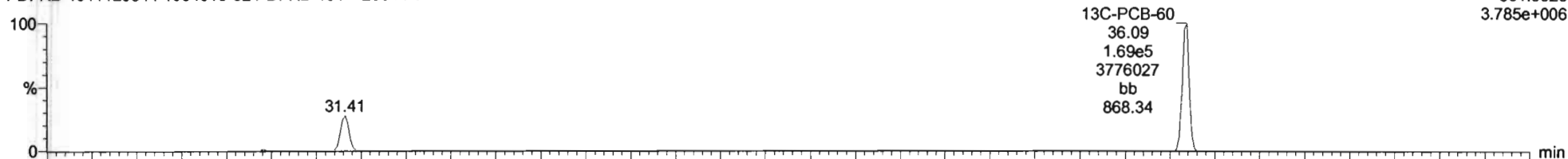
F2:Voltage SIR,EI+
236.0376
5.187e+006



13C-PCB-60

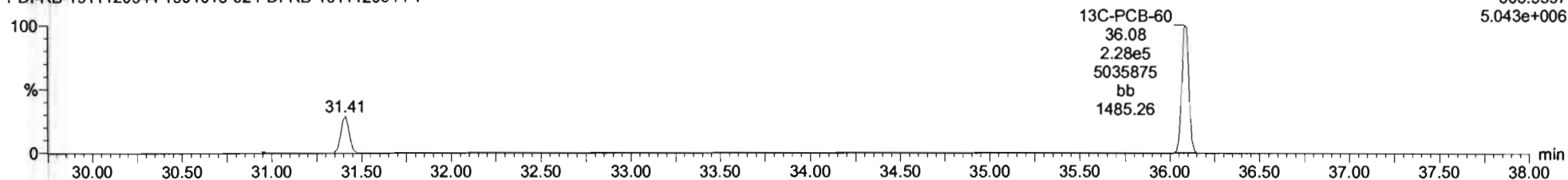
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F3:Voltage SIR,EI+
301.9626
3.785e+006



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F3:Voltage SIR,EI+
303.9597
5.043e+006



Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

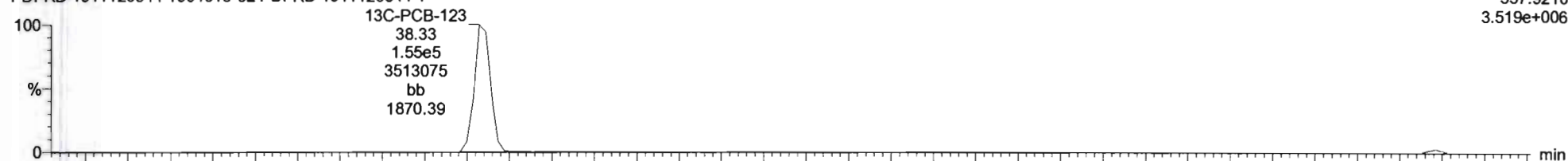
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_15, Date: 23-Nov-2019, Time: 03:32:14, ID: 1904016-02 PDI-RB-1911120944 1, Description: PDI-RB-1911120944

13C-PCB-123

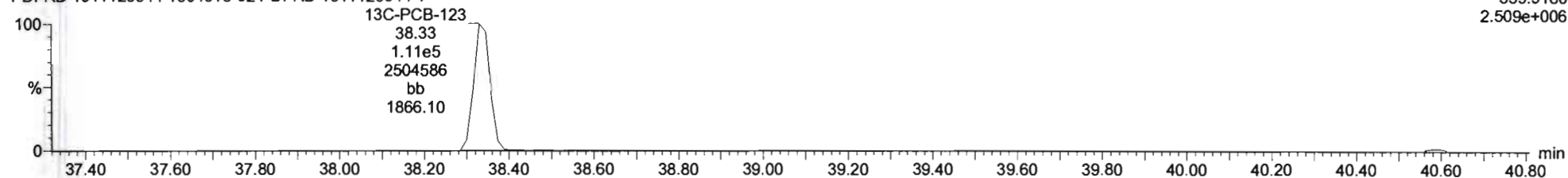
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F4:Voltage SIR,EI+
337.9210
3.519e+006



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

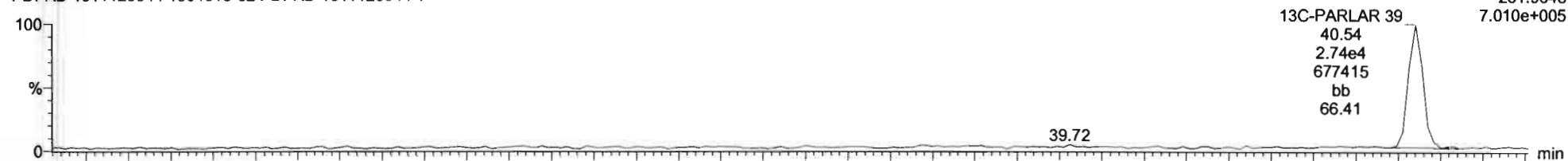
F4:Voltage SIR,EI+
339.9180
2.509e+006



13C-PARLAR 39

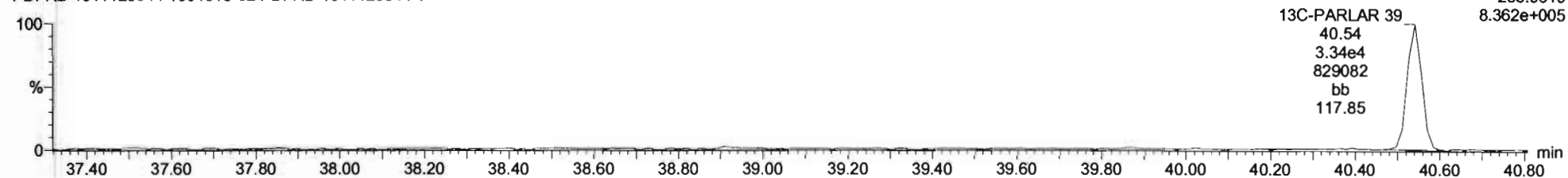
191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F4:Voltage SIR,EI+
251.9648
7.010e+005



191122K3_15
PDI-RB-1911120944 1904016-02 PDI-RB-1911120944 1

F4:Voltage SIR,EI+
253.9619
8.362e+005



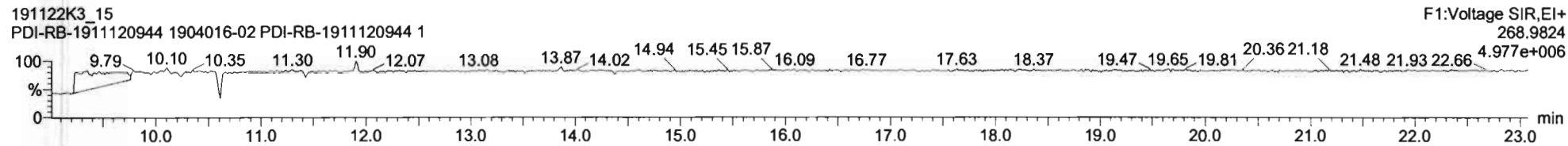
Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:29:43 Pacific Standard Time

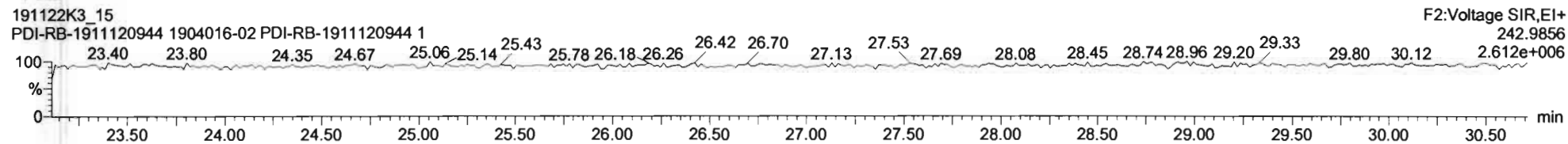
Printed: Monday, November 25, 2019 11:30:53 Pacific Standard Time

Name: 191122K3_15, Date: 23-Nov-2019, Time: 03:32:14, ID: 1904016-02 PDI-RB-1911120944 1, Description: PDI-RB-1911120944

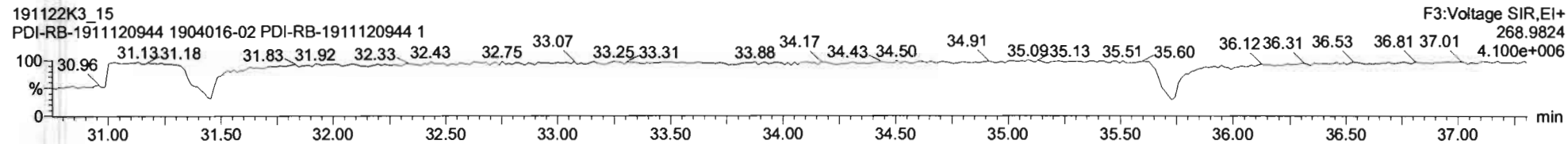
PFK1



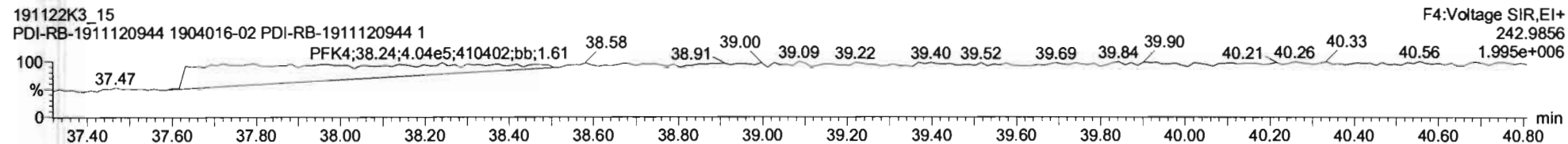
PFK2



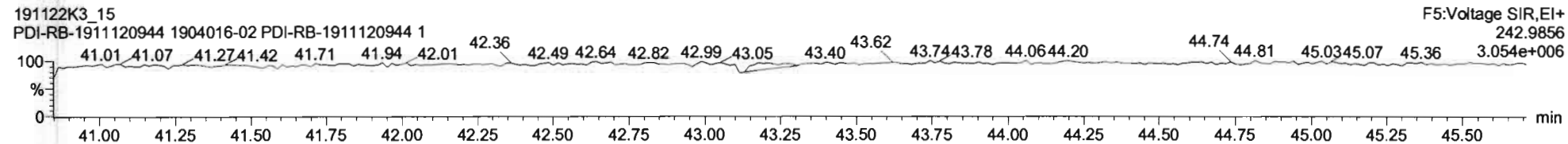
PFK3



PFK4



PFK5



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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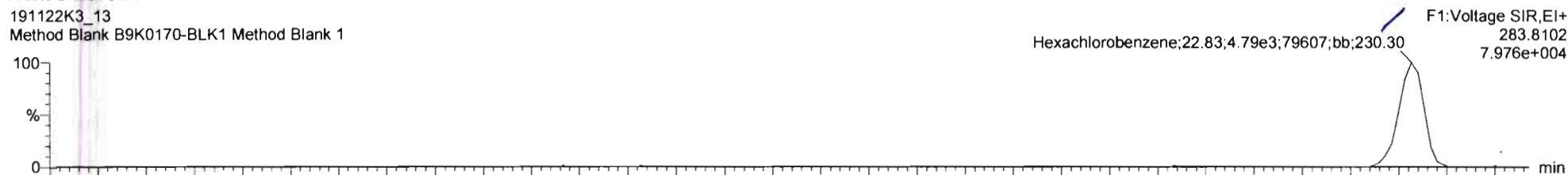
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Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

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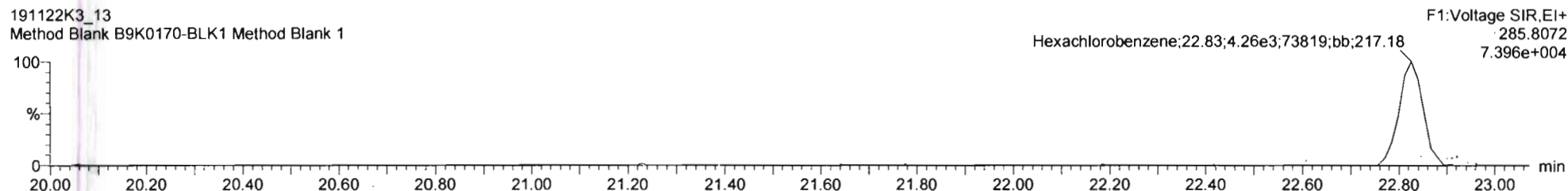
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Hexachlorobenzene

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

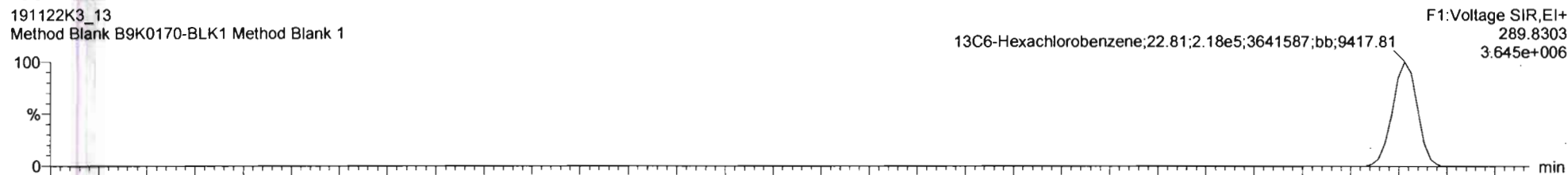


191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

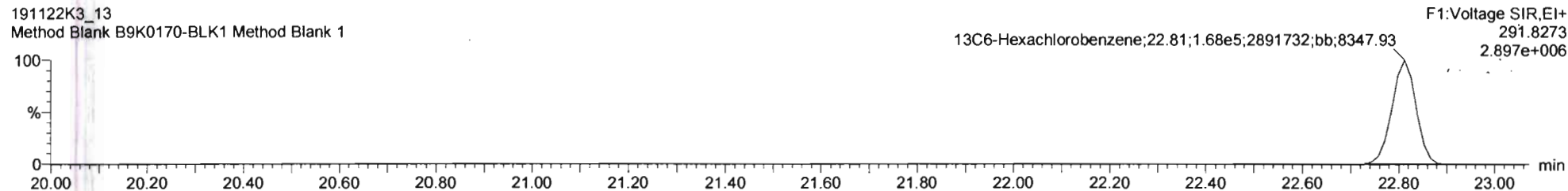


13C6-Hexachlorobenzene

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

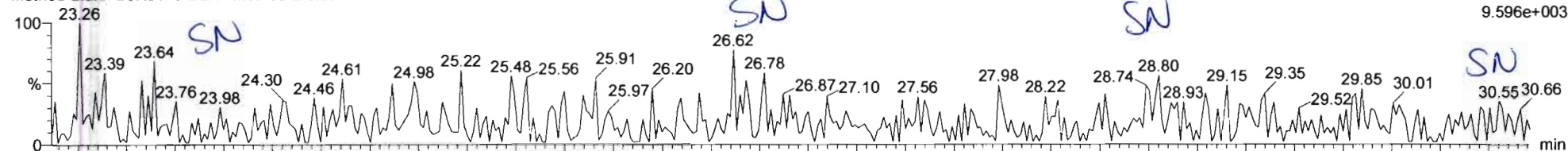
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Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

BHC Totals

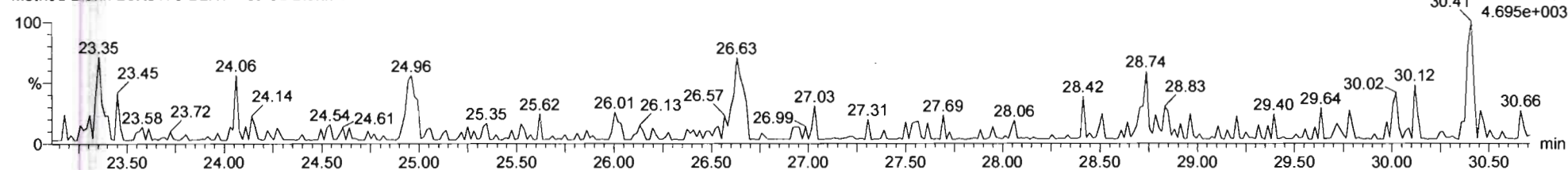
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F2:Voltage SIR,EI+
218.9116
9.596e+003



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

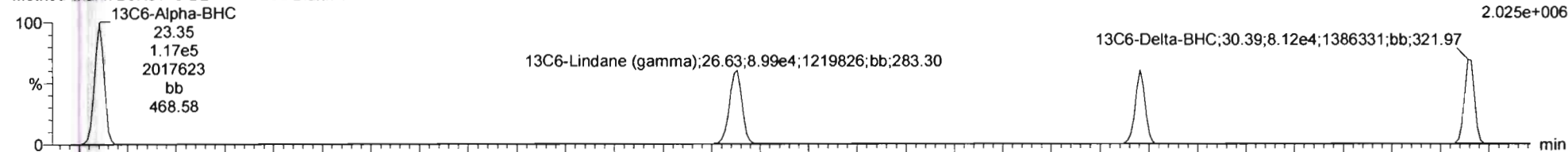
F2:Voltage SIR,EI+
220.9086
4.695e+003



BHC-isotopes

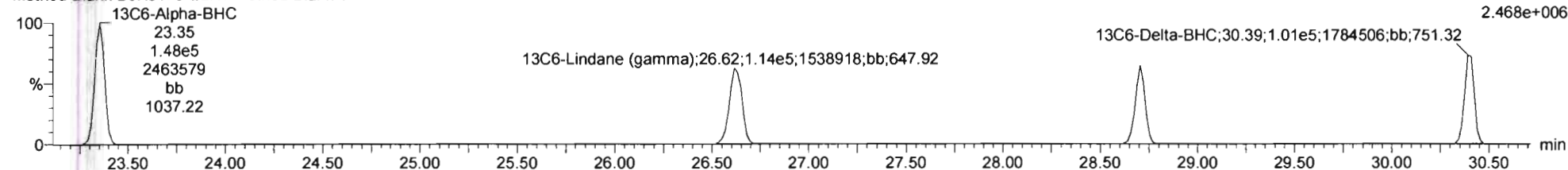
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

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

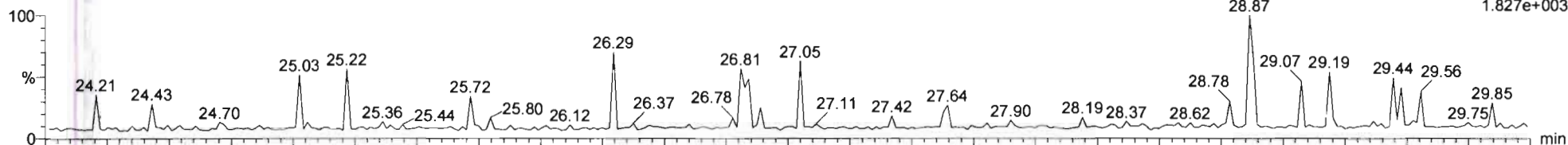
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Heptachlor

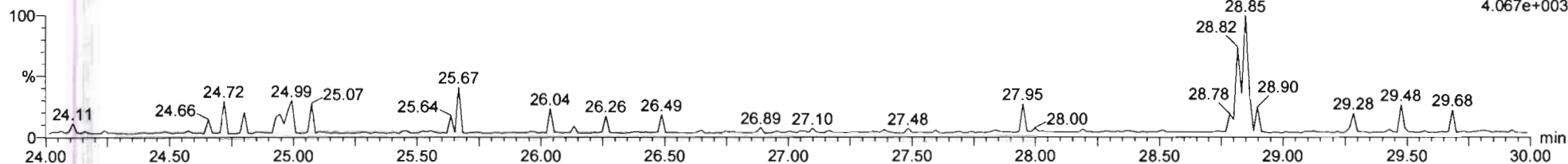
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F2:Voltage SIR,EI+
271.8102
1.827e+003



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

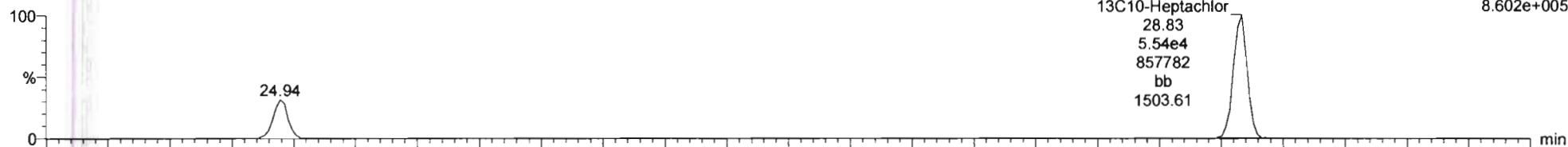
F2:Voltage SIR,EI+
273.8072
4.067e+003



13C10-Heptachlor

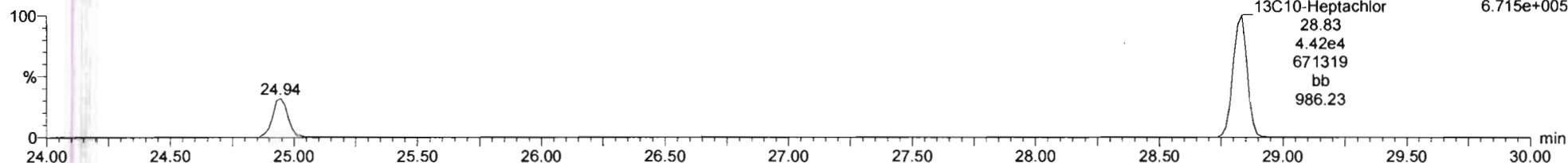
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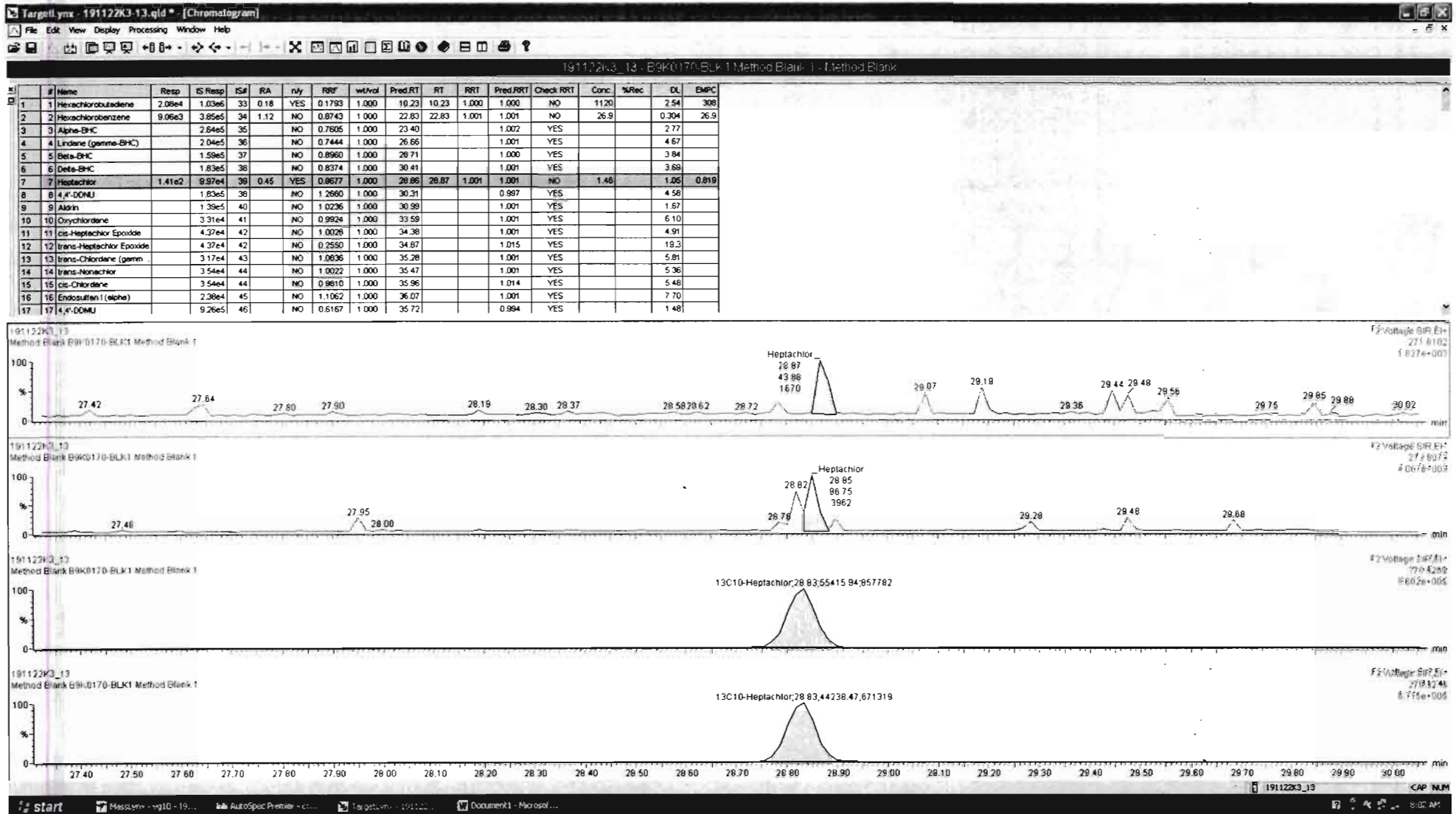
F2:Voltage SIR,EI+
276.8269
8.602e+005



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

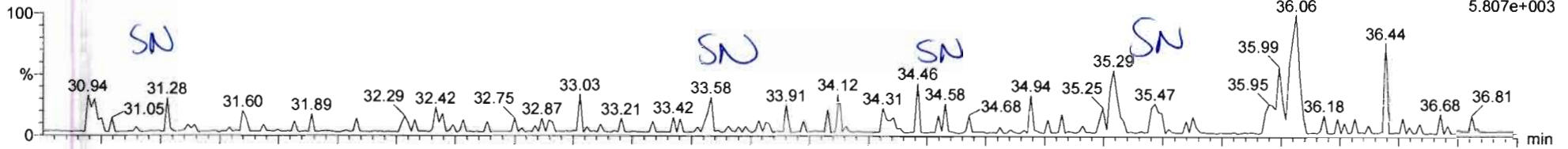
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Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

Aldrin-EI

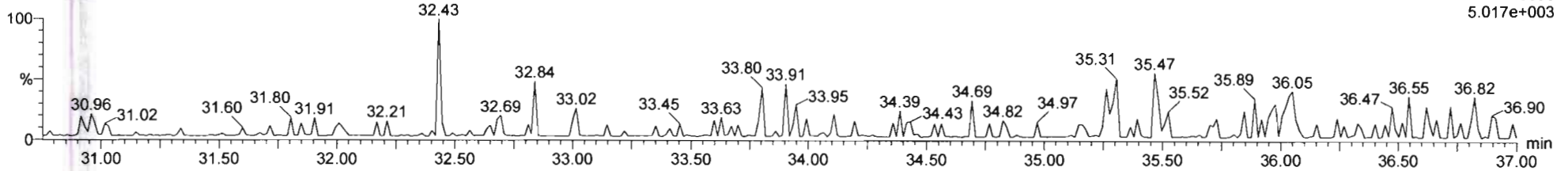
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F3:Voltage SIR,EI+
262.8569
5.807e+003



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

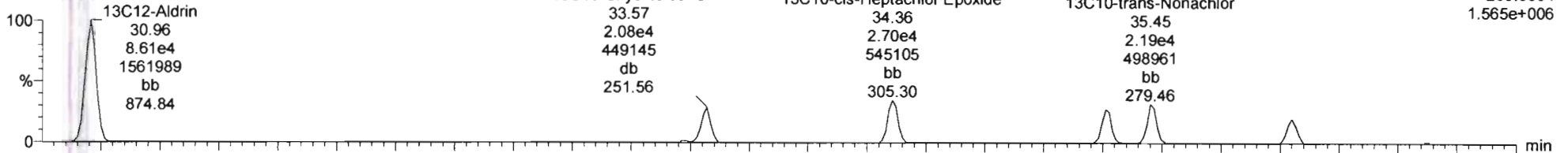
F3:Voltage SIR,EI+
264.8550
5.017e+003



Aldrin-EI-isotopes

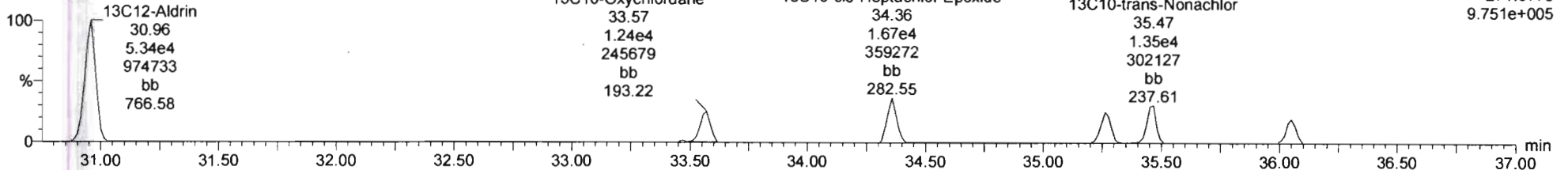
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

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



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

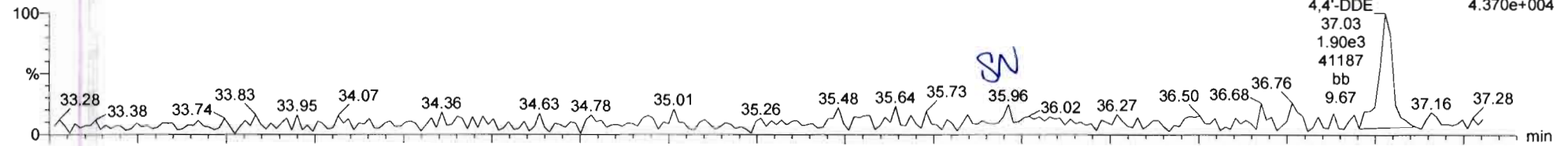
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DDMU-DDE

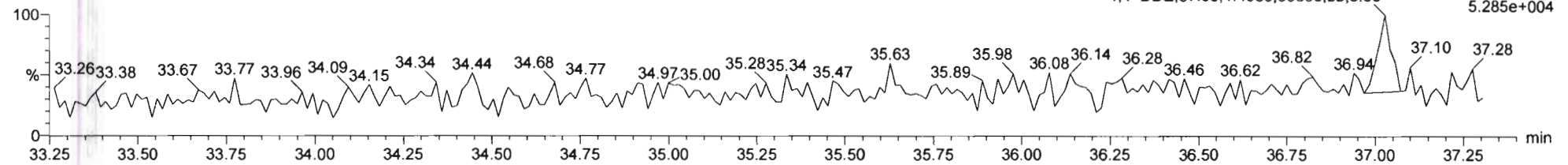
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F3:Voltage SIR,EI+
246.0003
4.370e+004



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

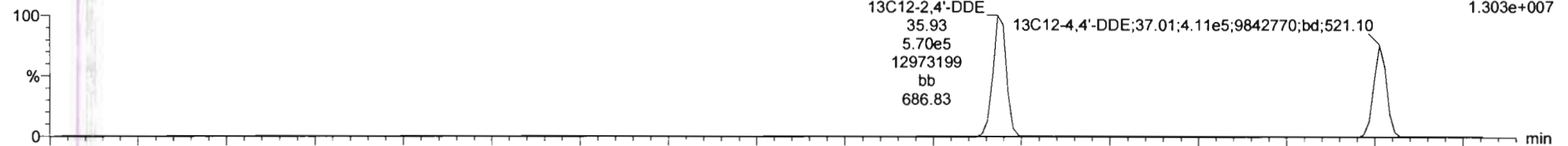
F3:Voltage SIR,EI+
247.9974
5.285e+004



DDE-isotopes

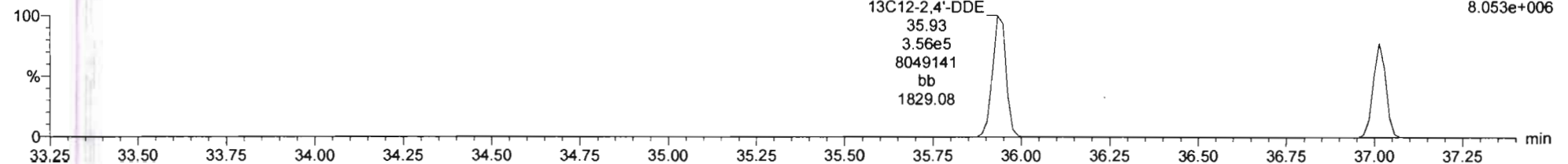
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F3:Voltage SIR,EI+
258.0406
1.303e+007

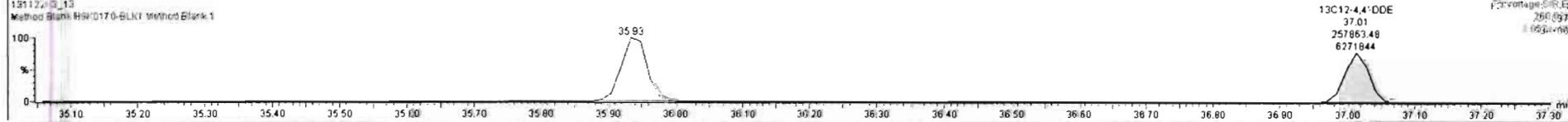
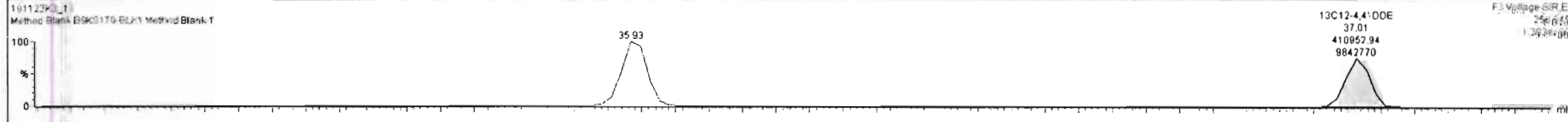
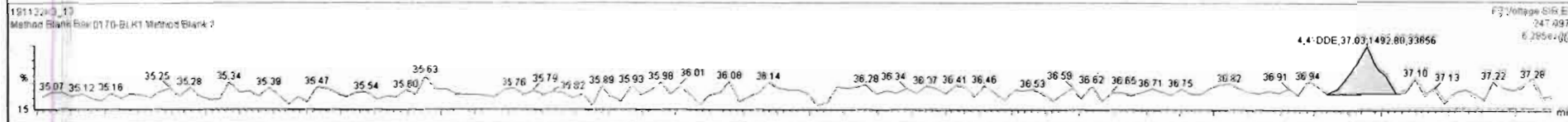
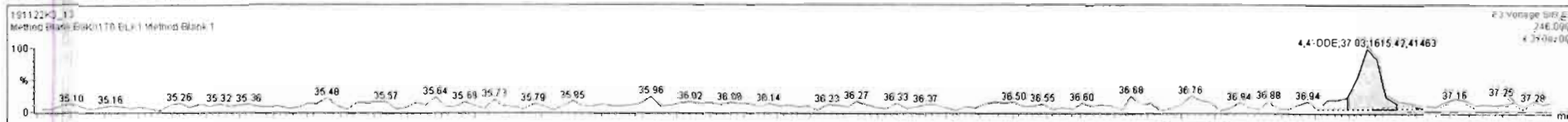


191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F3:Voltage SIR,EI+
260.0376
8.053e+006



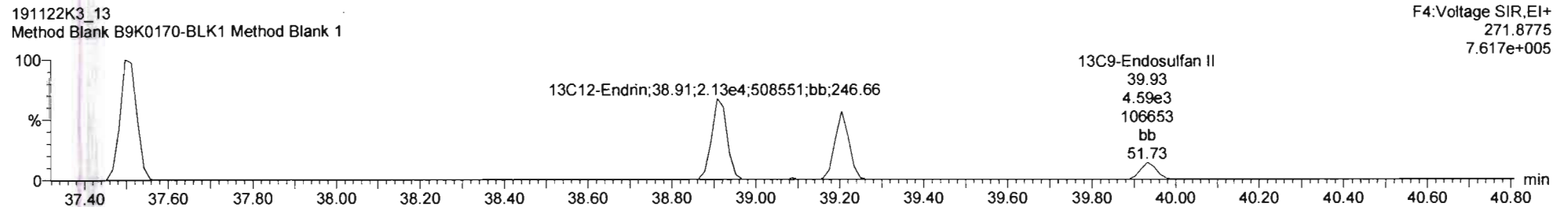
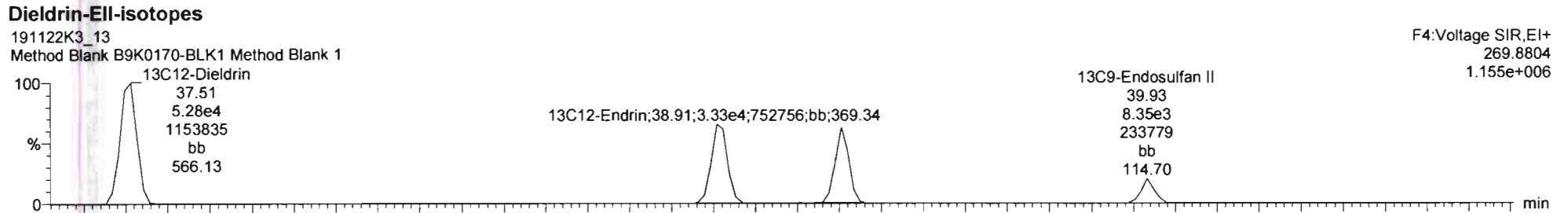
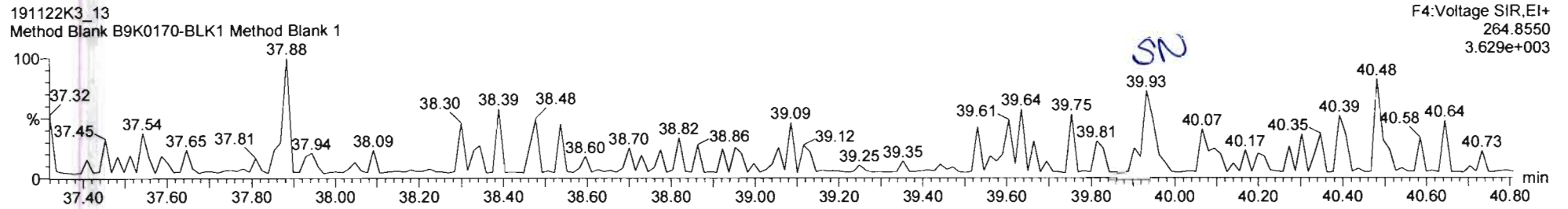
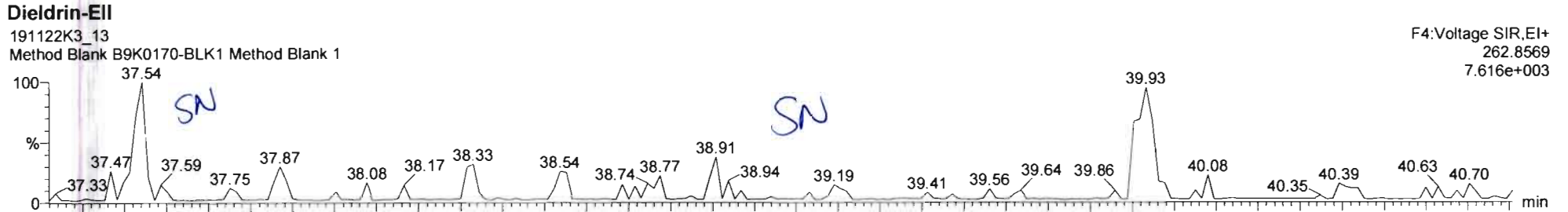
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18	2,4'-DDE		9.26e5	46		NO	0.8542	1.000	35.94			1.000	YES			1.86	
19	4,4'-DDE	3.11e3	6.68e5	47	1.08	YES	0.8728	1.000	37.03	37.03	1.000	1.000	NO	5.32		2.40	4.54
20	Dieldrin		8.75e4	48		NO	0.9570	1.000	37.53			1.000	YES			2.73	
21	Endrin		5.47e4	49		NO	0.9326	1.000	38.91			1.000	YES			4.35	
22	cis-Nonachlor		4.36e4	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

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



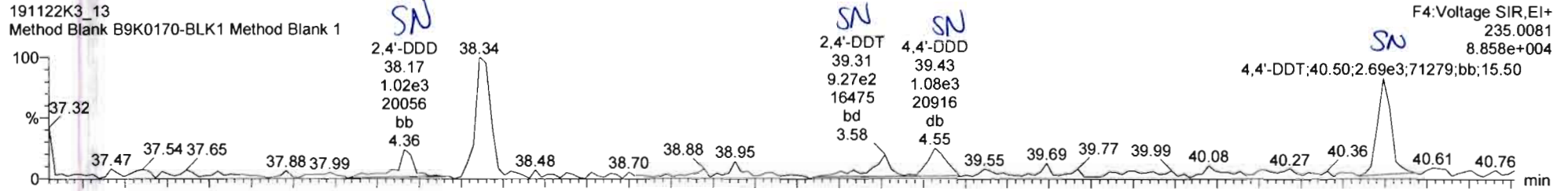
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Last Altered: Monday, November 25, 2019 11:36:28 Pacific Standard Time
Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

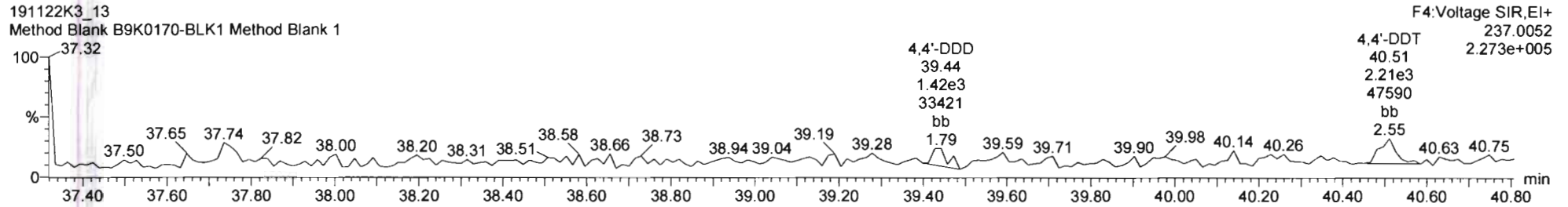
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DDD-DDT

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

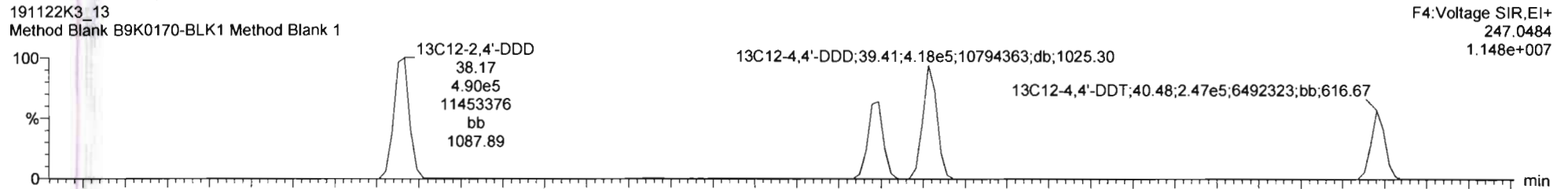


191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

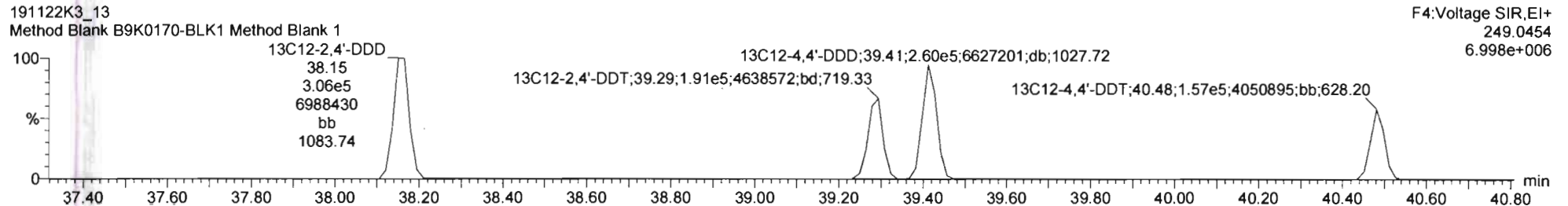


DDD-DDT-isotopes

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1



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Last Altered: Monday, November 25, 2019 11:36:28 Pacific Standard Time

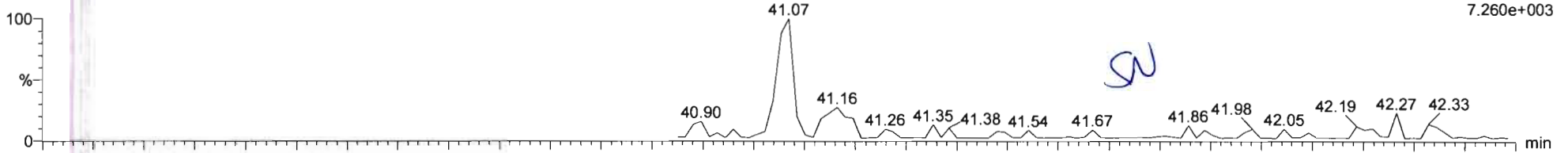
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Endosulfan Sulfate

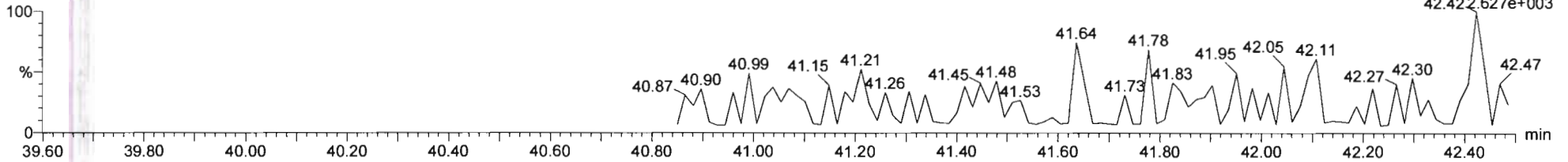
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
262.8569
7.260e+003



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

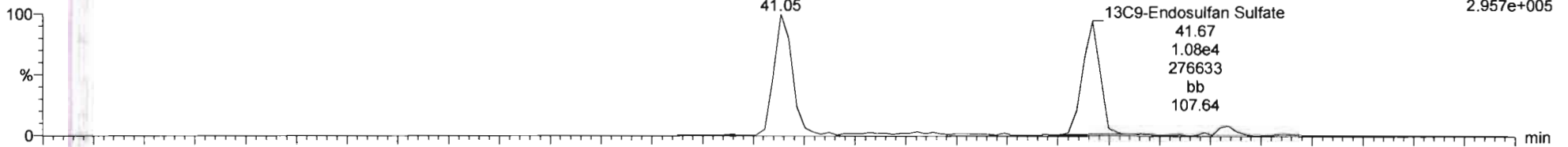
F5:Voltage SIR,EI+
264.8540
42.422627e+003



13C9-Endosulfan Sulfate

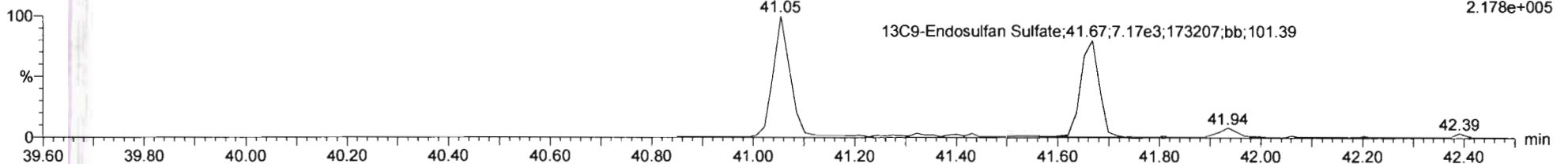
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

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

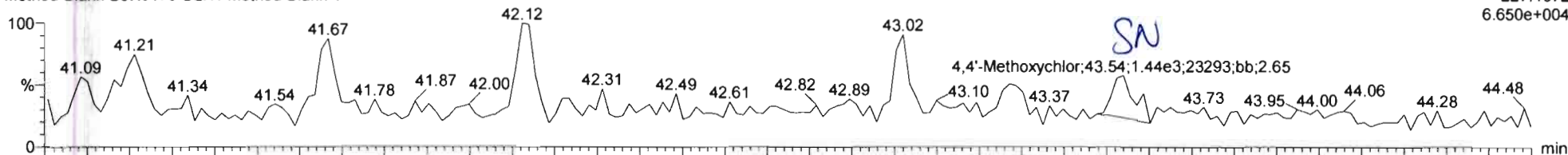
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Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

4,4'-Methoxychlor

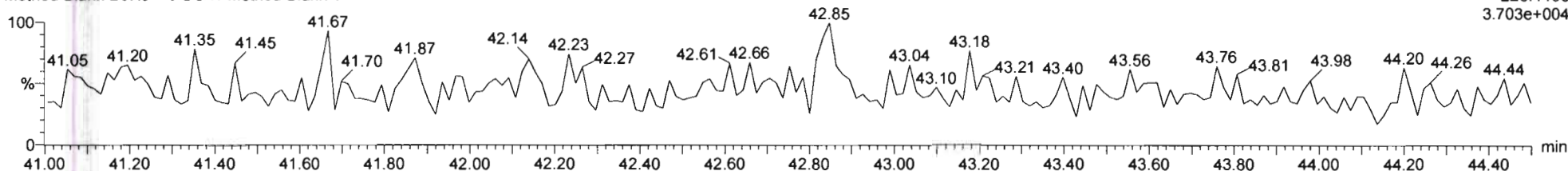
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
227.1072
6.650e+004



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

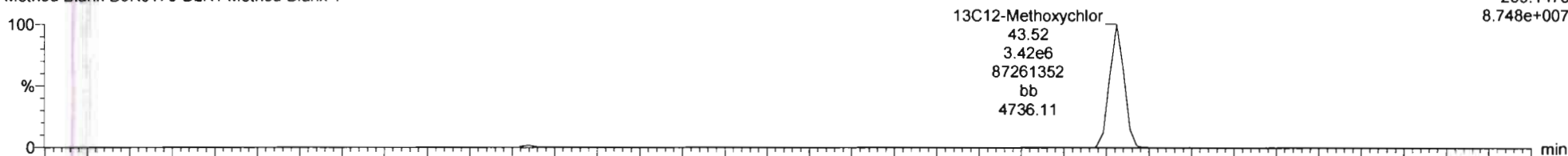
F5:Voltage SIR,EI+
228.1106
3.703e+004



13C12-Methoxychlor

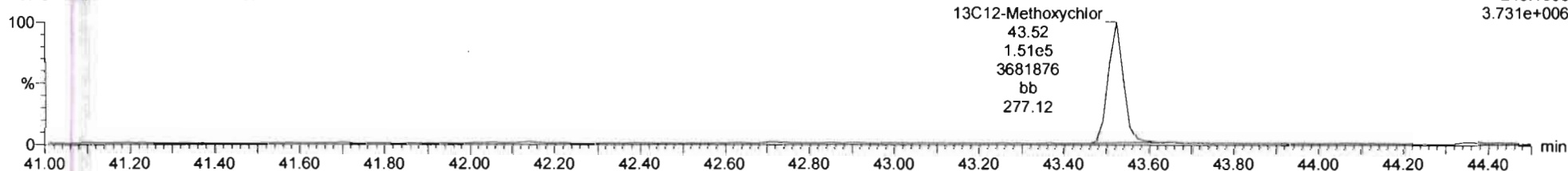
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

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

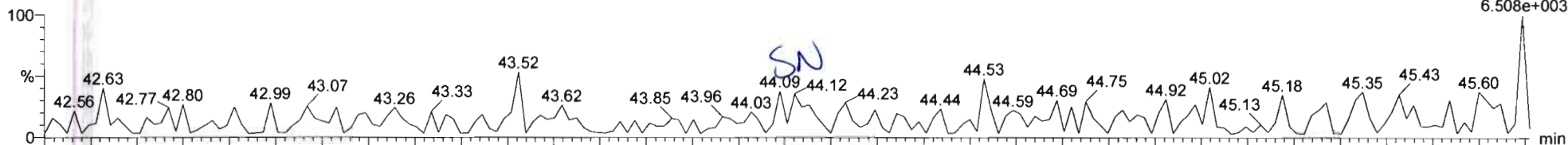
Last Altered: Monday, November 25, 2019 11:36:28 Pacific Standard Time
Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

Mirex

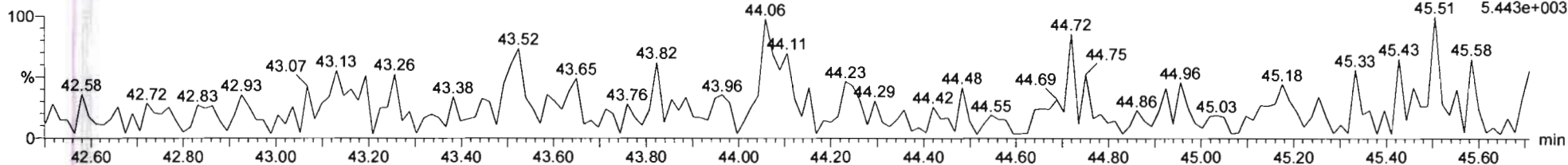
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
236.8413
6.508e+003



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

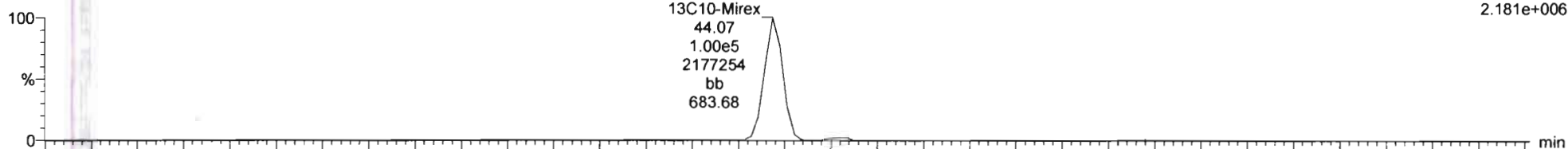
F5:Voltage SIR,EI+
238.8384
5.443e+003



13C10-Mirex

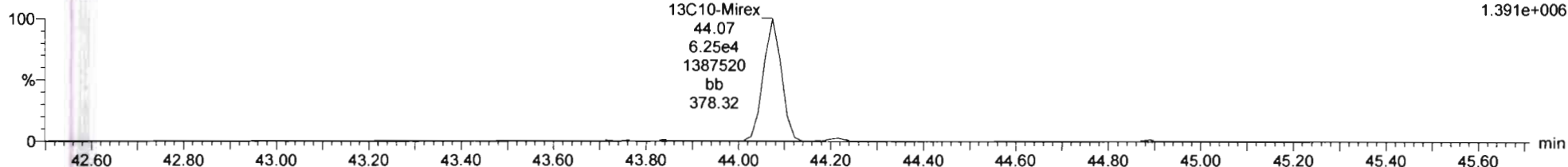
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

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

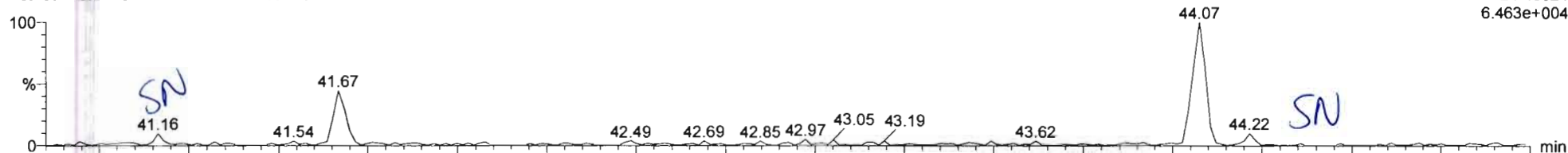
Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

EA-EK

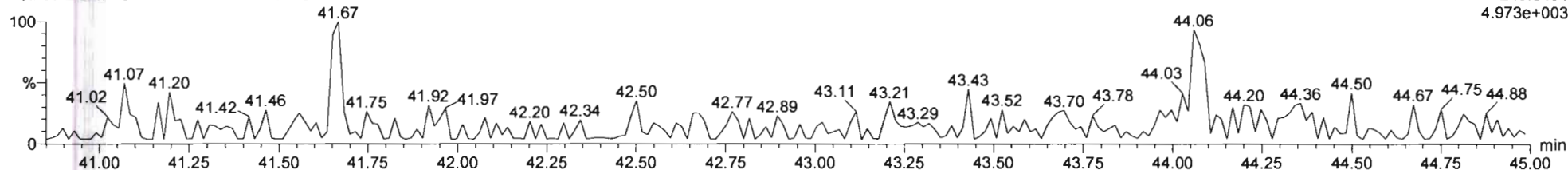
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
247.8521
6.463e+004



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

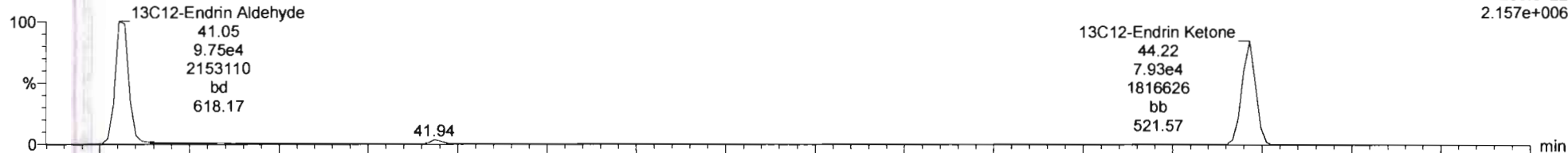
F5:Voltage SIR,EI+
249.8491
4.973e+003



EA-EK-isotopes

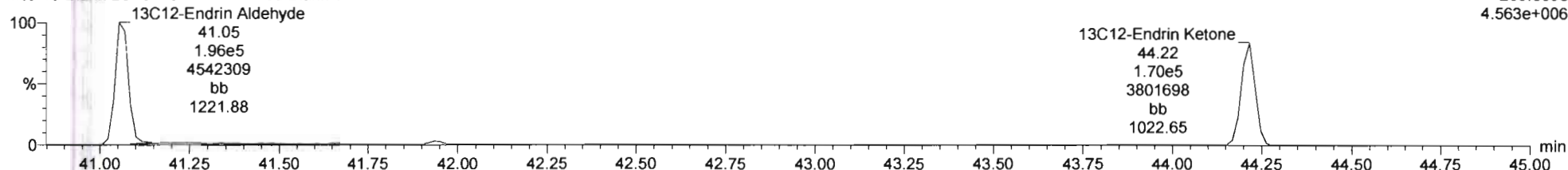
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

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

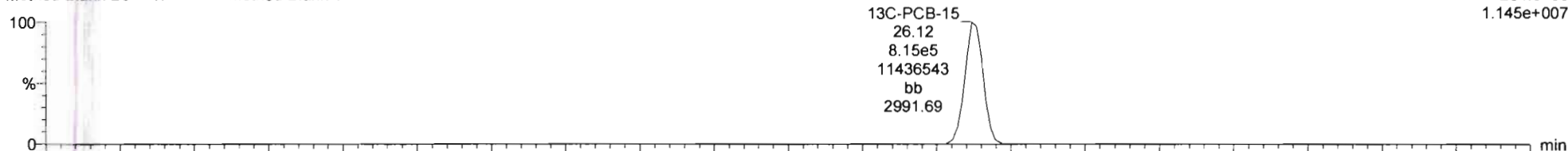
Last Altered: Monday, November 25, 2019 11:36:28 Pacific Standard Time
Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

13C-PCB-15

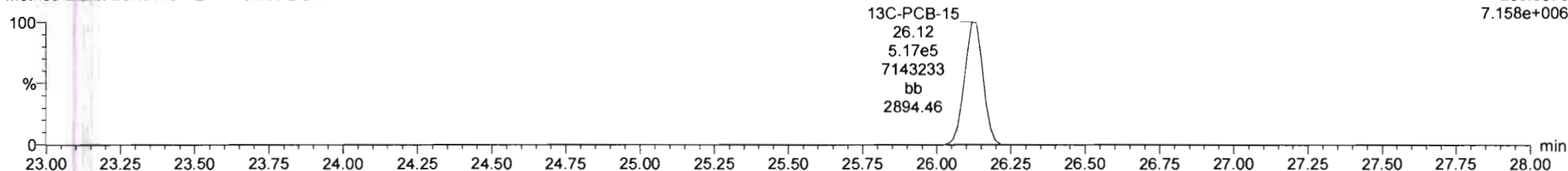
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F2:Voltage SIR,EI+
234.0406
1.145e+007



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

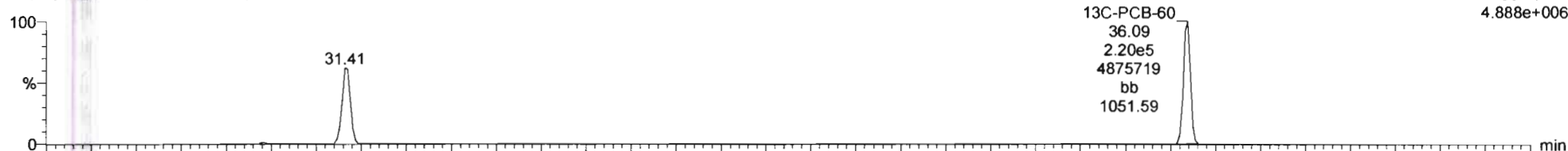
F2:Voltage SIR,EI+
236.0376
7.158e+006



13C-PCB-60

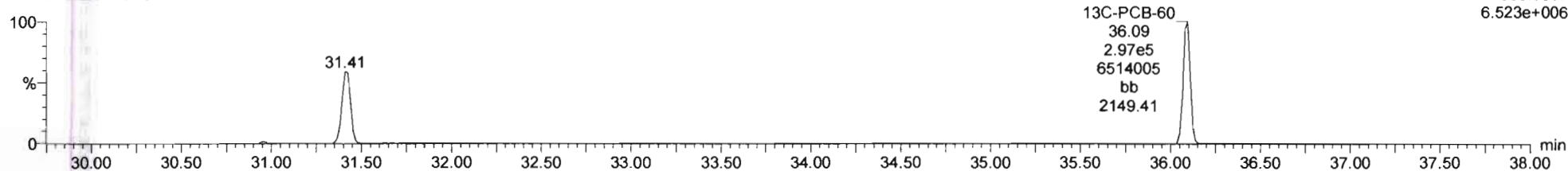
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

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

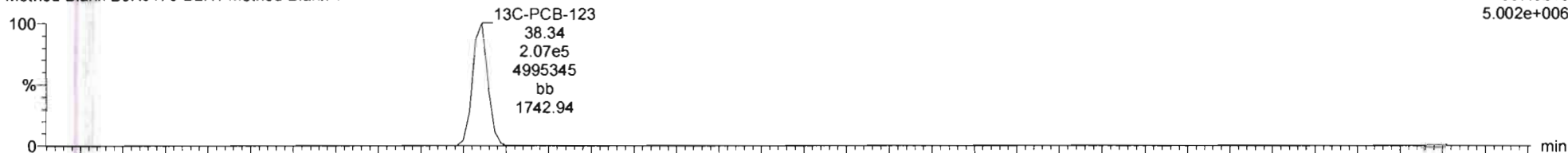
Last Altered: Monday, November 25, 2019 11:36:28 Pacific Standard Time
Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

13C-PCB-123

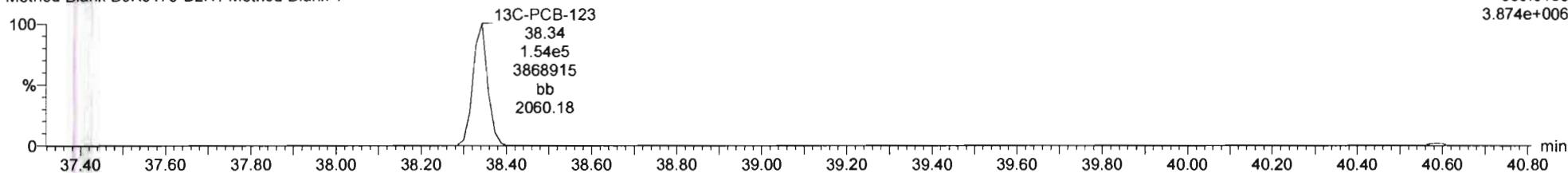
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F4:Voltage SIR,EI+
337.9210
5.002e+006



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

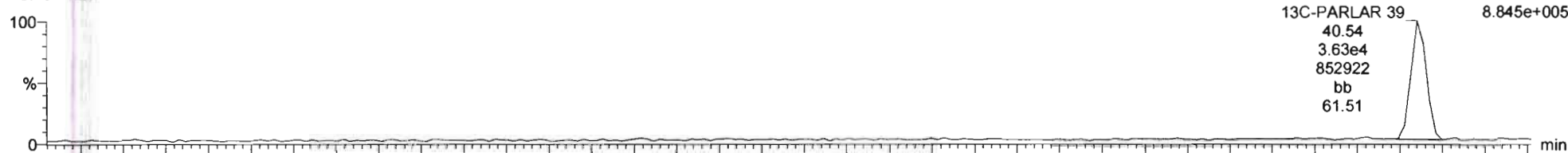
F4:Voltage SIR,EI+
339.9180
3.874e+006



13C-PARLAR 39

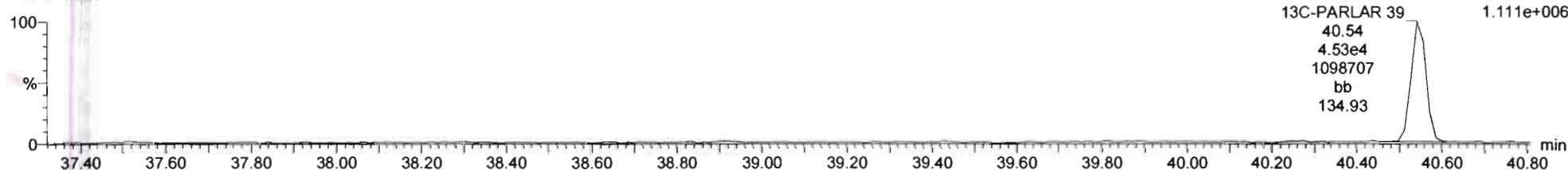
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

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

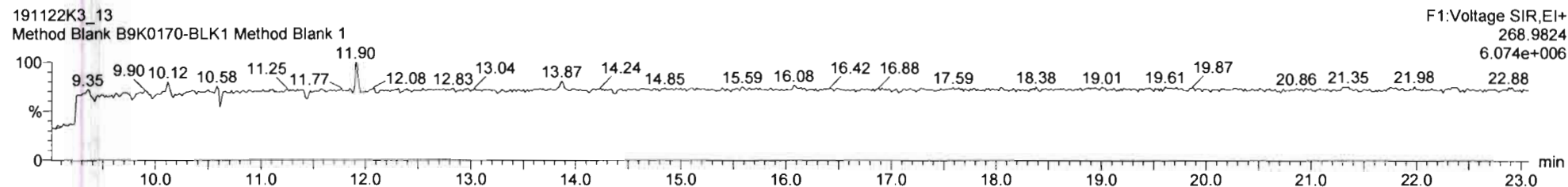


Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

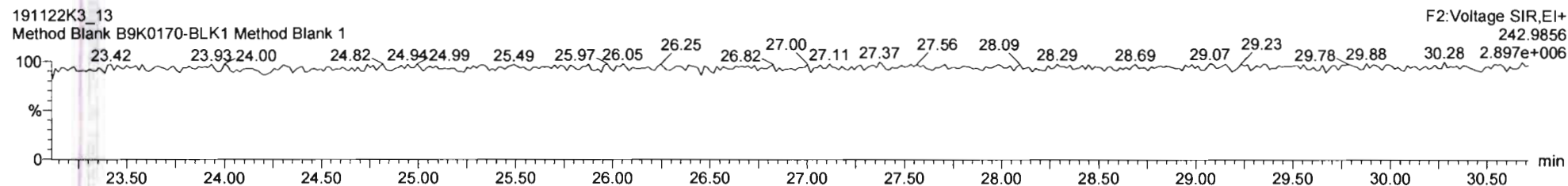
Last Altered: Monday, November 25, 2019 11:36:28 Pacific Standard Time
Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

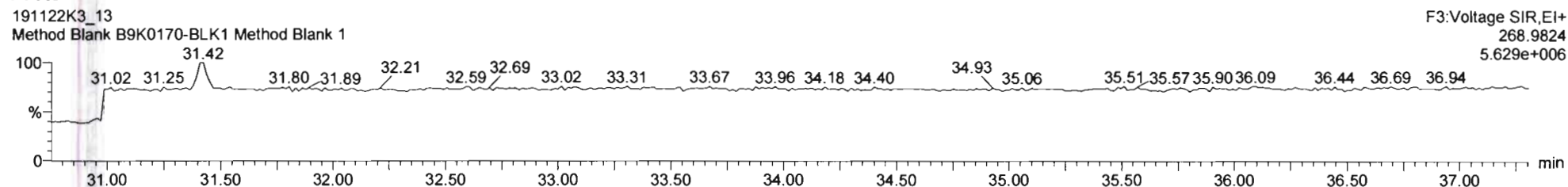
PFK1



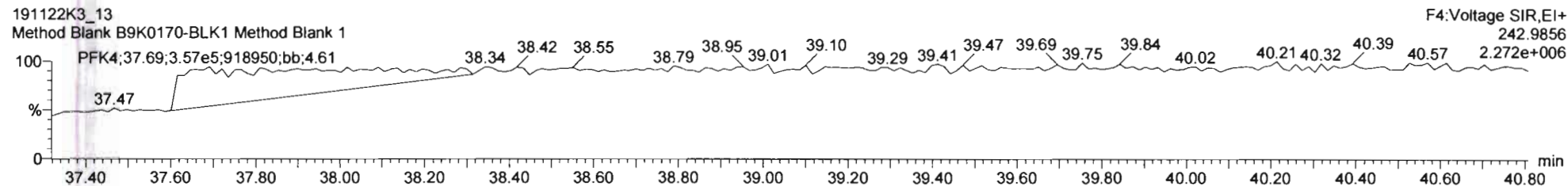
PFK2



PFK3



PFK4



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

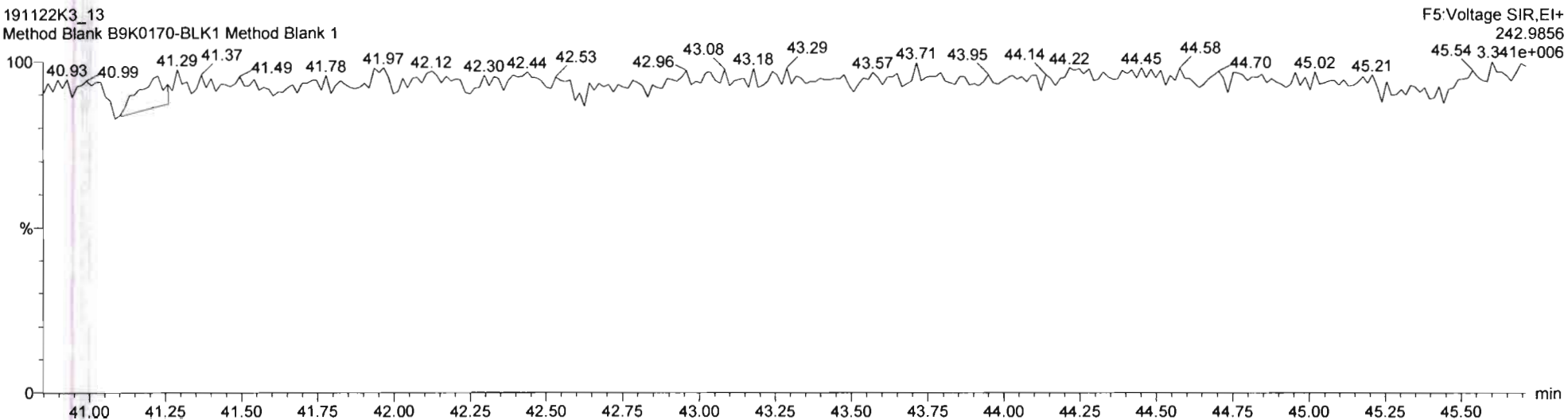
Last Altered: Monday, November 25, 2019 11:36:28 Pacific Standard Time

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

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	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

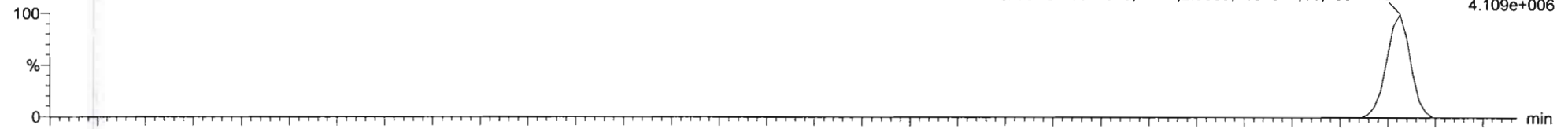
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Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

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

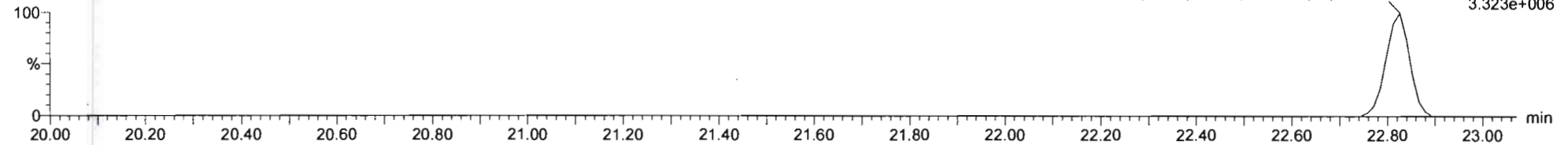
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Hexachlorobenzene

191122K3_10
OPR B9K0170-BS1 OPR 1

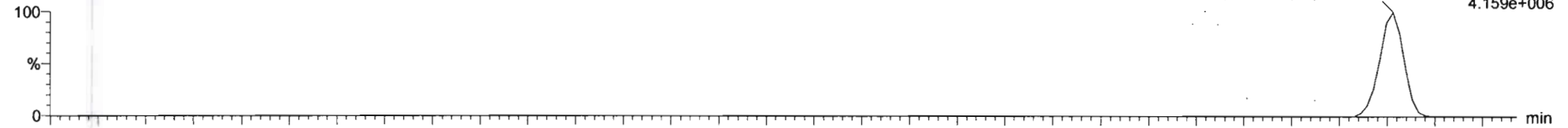


191122K3_10
OPR B9K0170-BS1 OPR 1

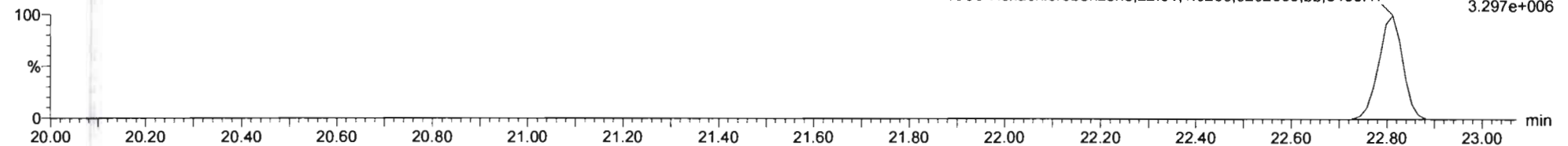


13C6-Hexachlorobenzene

191122K3_10
OPR B9K0170-BS1 OPR 1



191122K3_10
OPR B9K0170-BS1 OPR 1



Dataset: U:\WG11.PRO\Results\191122K3\191122K3-10.qld

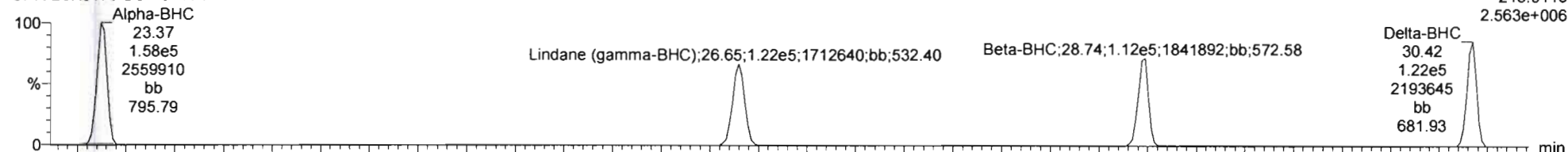
Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time

Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

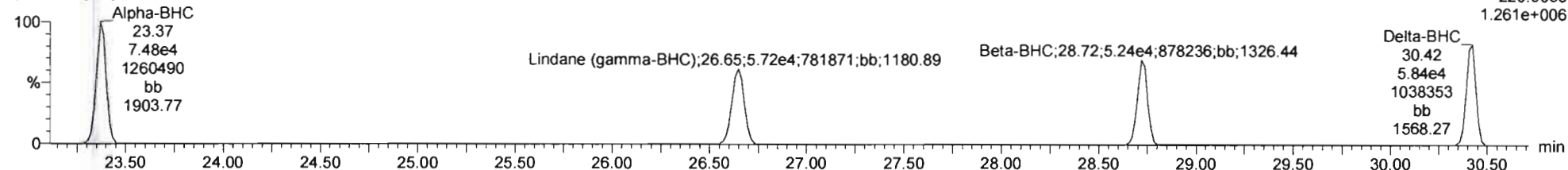
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BHC Totals

191122K3_10
OPR B9K0170-BS1 OPR 1

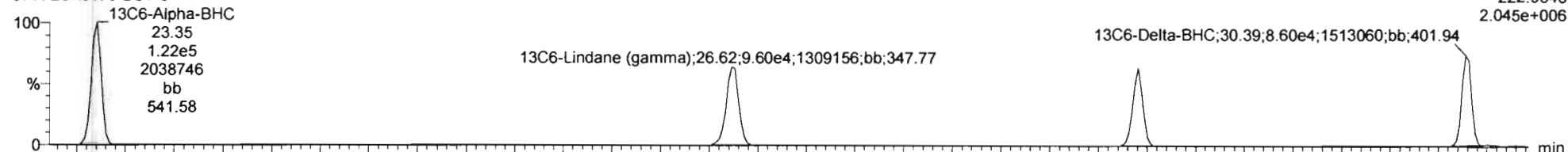


191122K3_10
OPR B9K0170-BS1 OPR 1

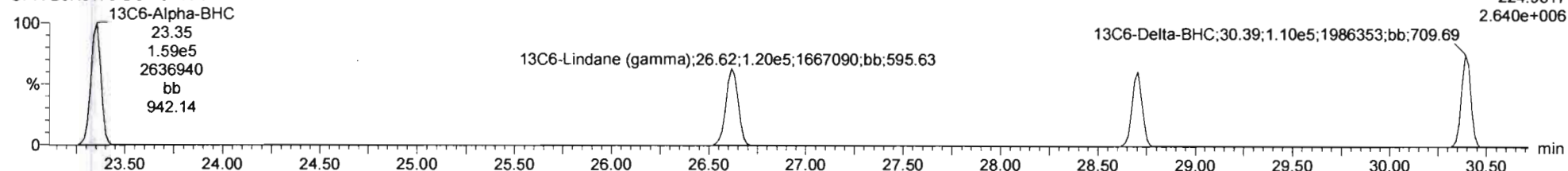


BHC-isotopes

191122K3_10
OPR B9K0170-BS1 OPR 1



191122K3_10
OPR B9K0170-BS1 OPR 1



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

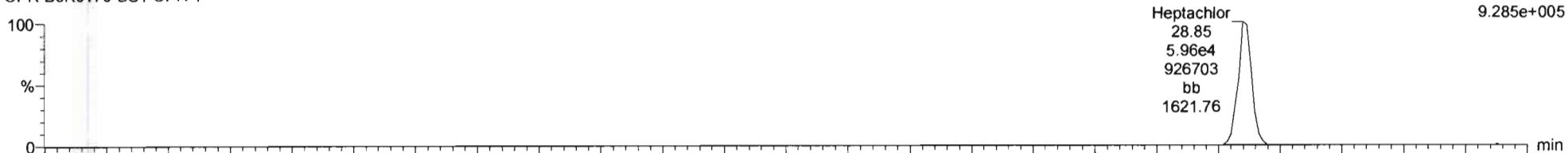
Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

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Heptachlor

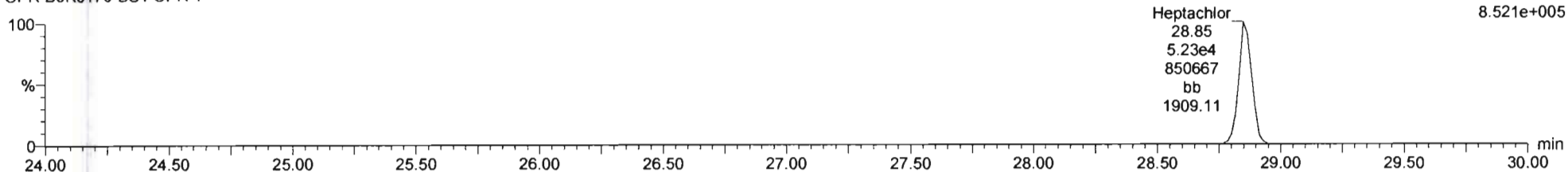
191122K3_10
OPR B9K0170-BS1 OPR 1

F2:Voltage SIR,EI+
271.8102
9.285e+005



191122K3_10
OPR B9K0170-BS1 OPR 1

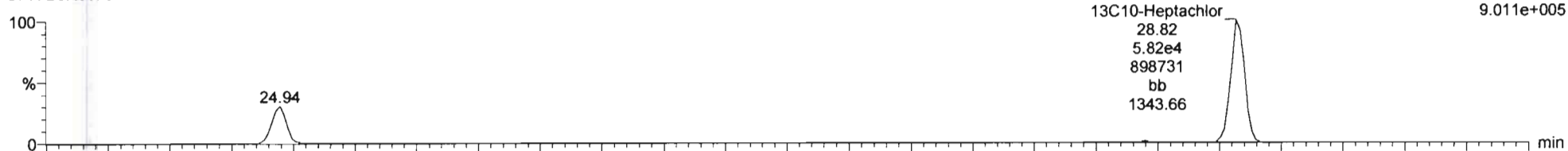
F2:Voltage SIR,EI+
273.8072
8.521e+005



13C10-Heptachlor

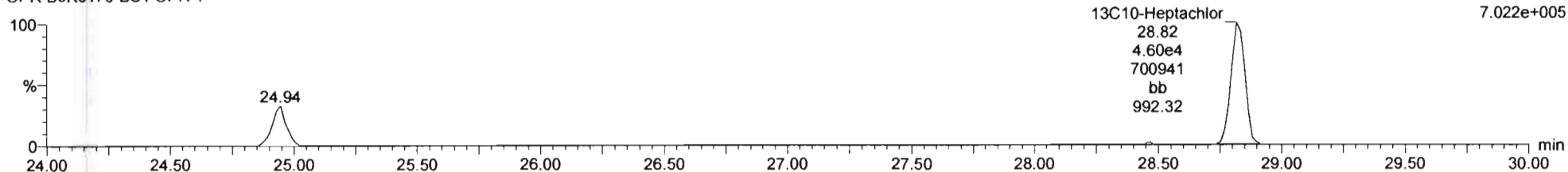
191122K3_10
OPR B9K0170-BS1 OPR 1

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



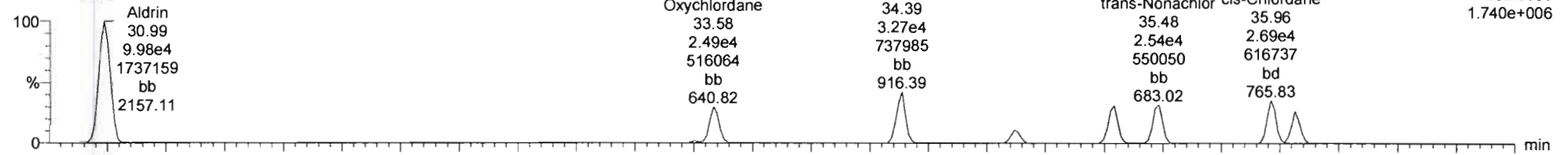
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Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

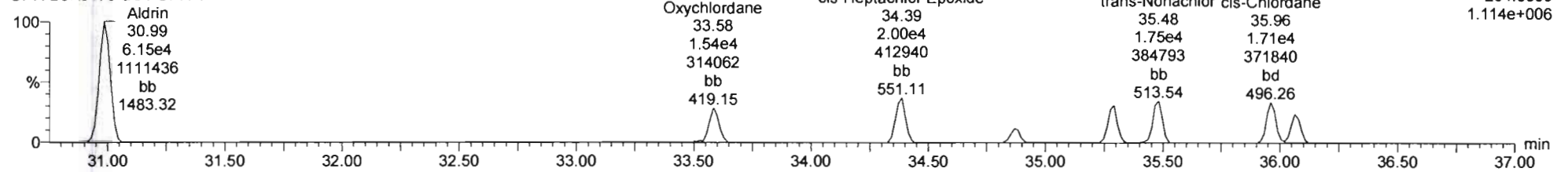
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Aldrin-EI

191122K3_10
OPR B9K0170-BS1 OPR 1

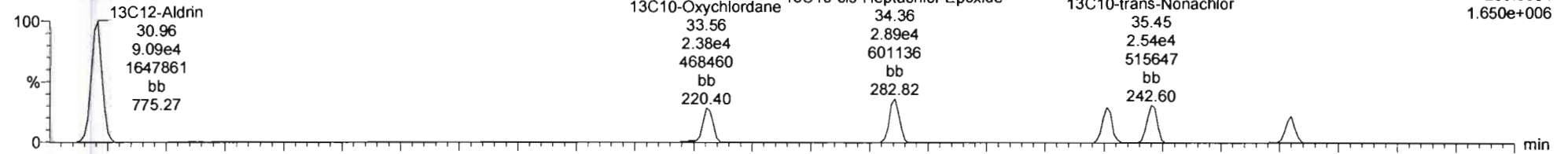


191122K3_10
OPR B9K0170-BS1 OPR 1

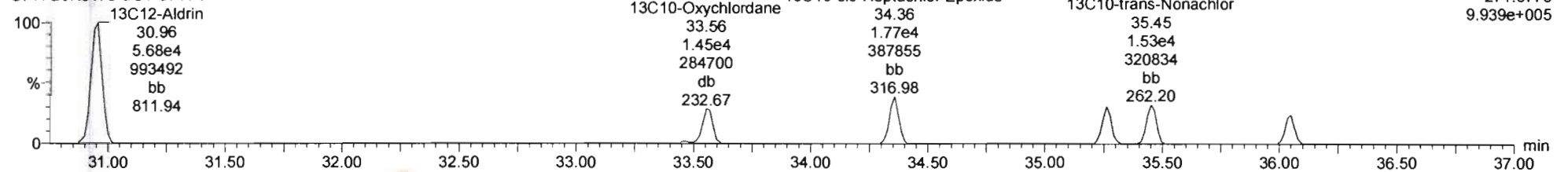


Aldrin-EI-isotopes

191122K3_10
OPR B9K0170-BS1 OPR 1



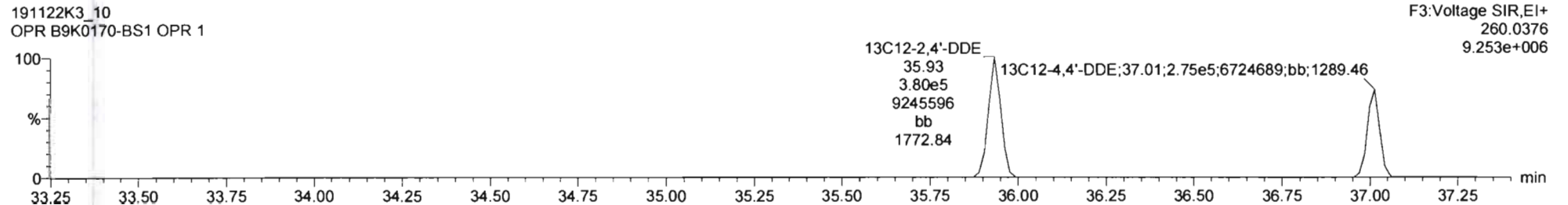
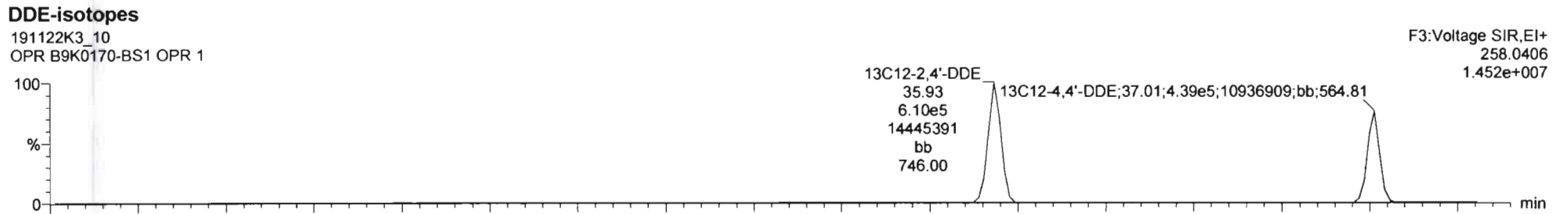
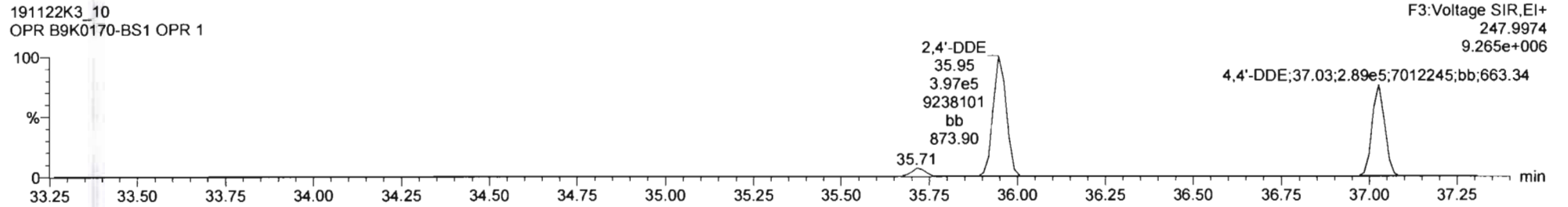
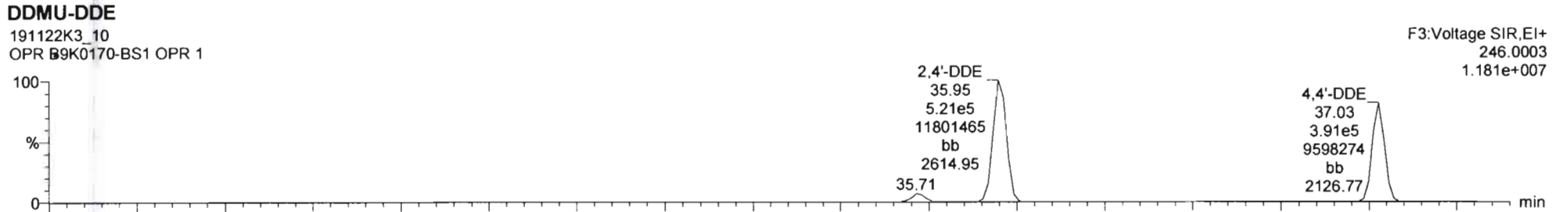
191122K3_10
OPR B9K0170-BS1 OPR 1



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

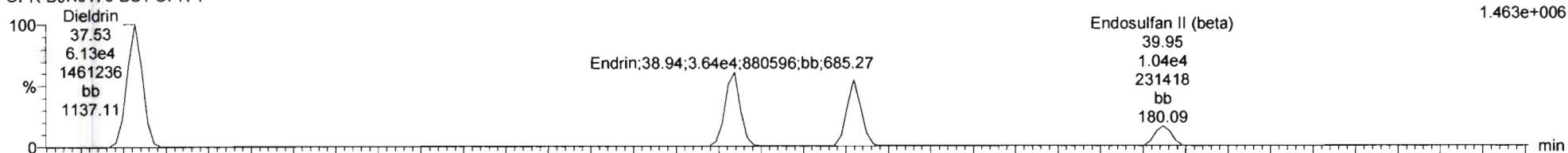
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Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

Dieldrin-EII

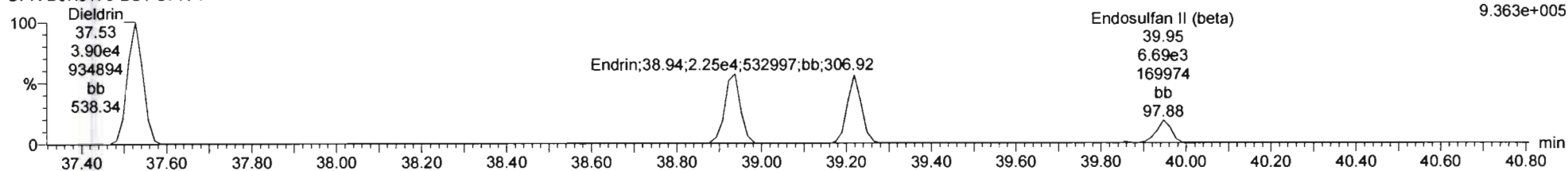
191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
262.8569
1.463e+006



191122K3_10
OPR B9K0170-BS1 OPR 1

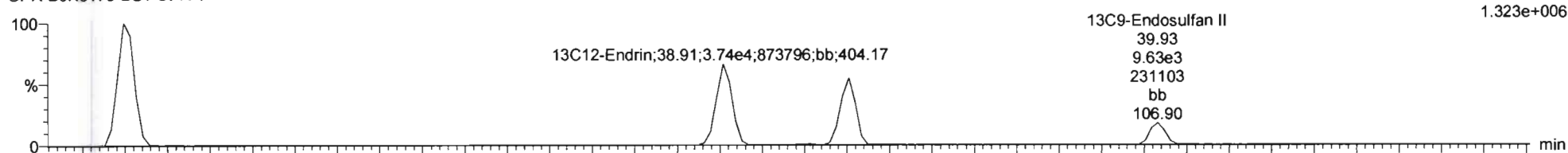
F4:Voltage SIR,EI+
264.8550
9.363e+005



Dieldrin-EII-isotopes

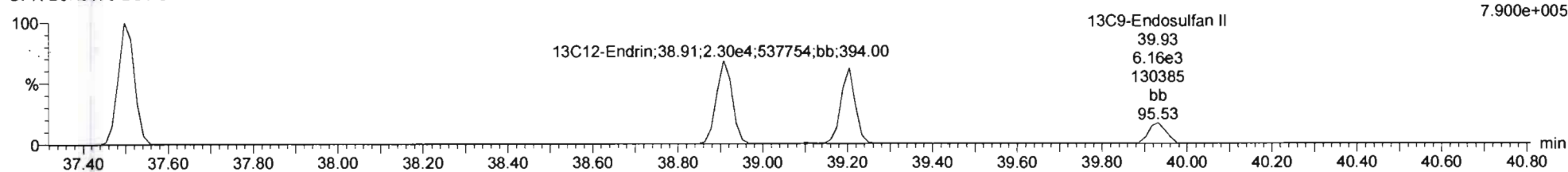
191122K3_10
OPR B9K0170-BS1 OPR 1

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

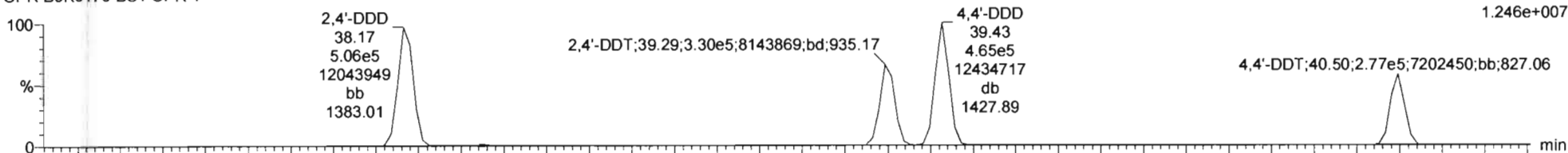
Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

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DDD-DDT

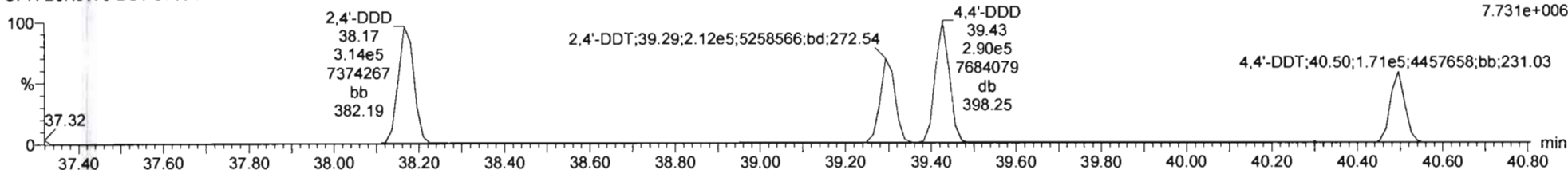
191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
235.0081
1.246e+007



191122K3_10
OPR B9K0170-BS1 OPR 1

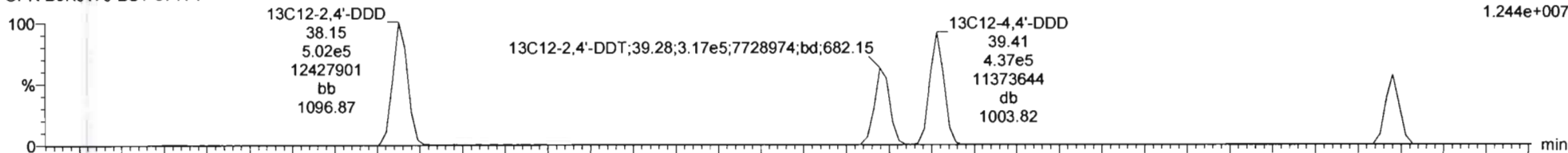
F4:Voltage SIR,EI+
237.0052
7.731e+006



DDD-DDT-isotopes

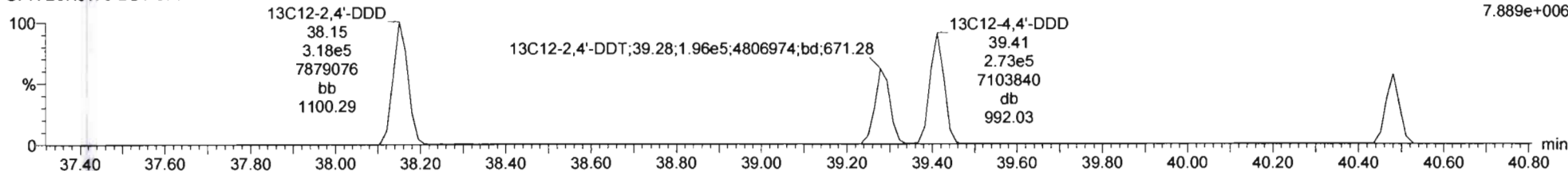
191122K3_10
OPR B9K0170-BS1 OPR 1

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

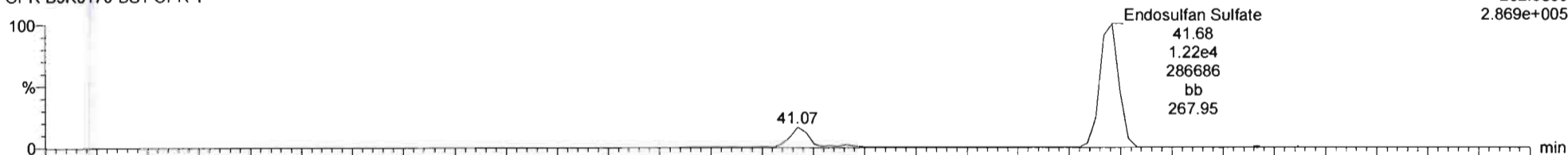
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Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

Endosulfan Sulfate

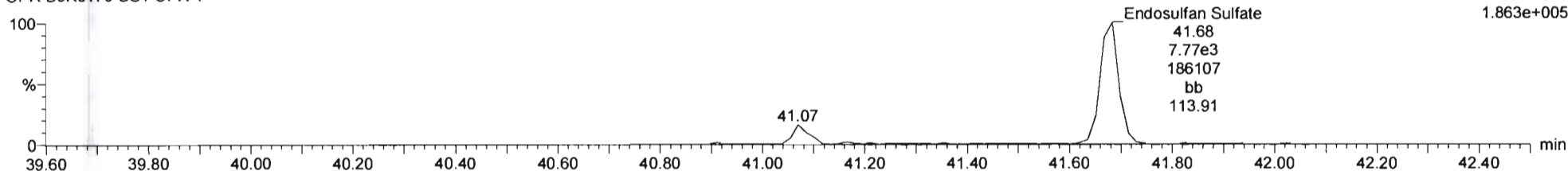
191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
262.8569
2.869e+005



191122K3_10
OPR B9K0170-BS1 OPR 1

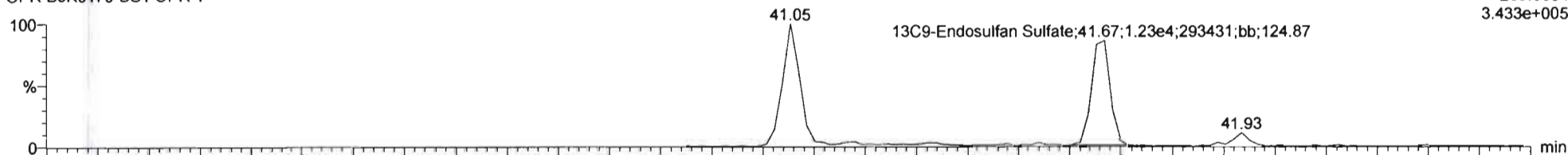
F5:Voltage SIR,EI+
264.8540
1.863e+005



13C9-Endosulfan Sulfate

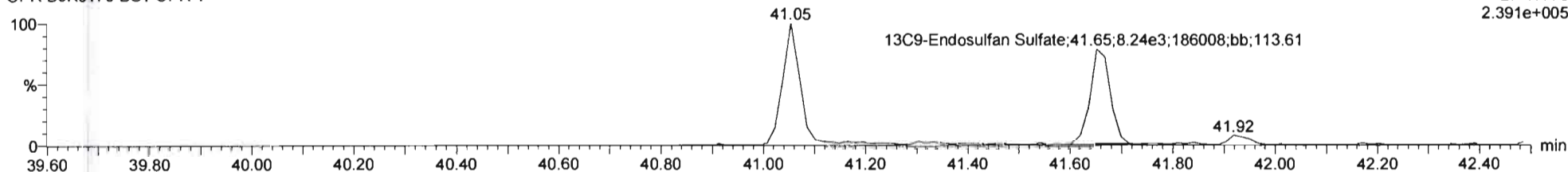
191122K3_10
OPR B9K0170-BS1 OPR 1

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

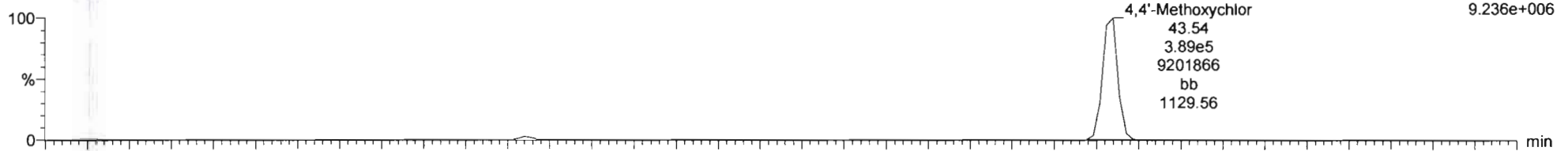
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Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

4,4'-Methoxychlor

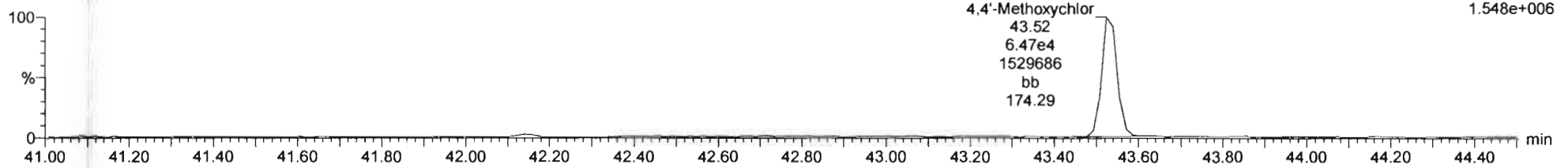
191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
227.1072
9.236e+006



191122K3_10
OPR B9K0170-BS1 OPR 1

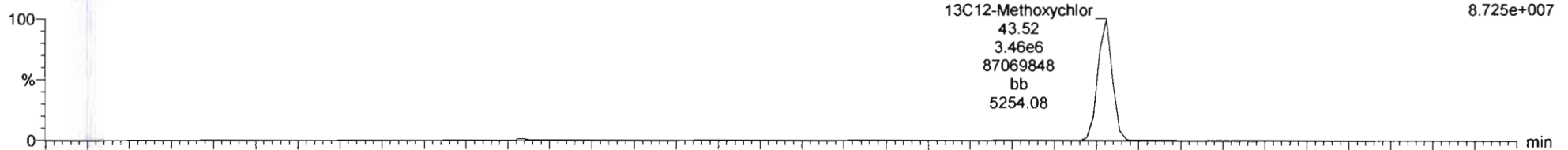
F5:Voltage SIR,EI+
228.1106
1.548e+006



13C12-Methoxychlor

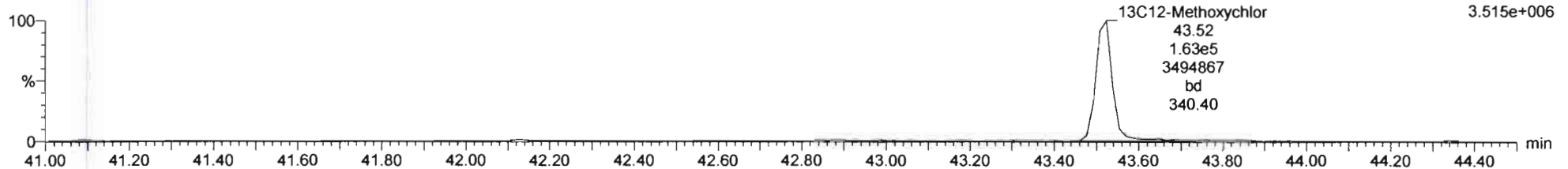
191122K3_10
OPR B9K0170-BS1 OPR 1

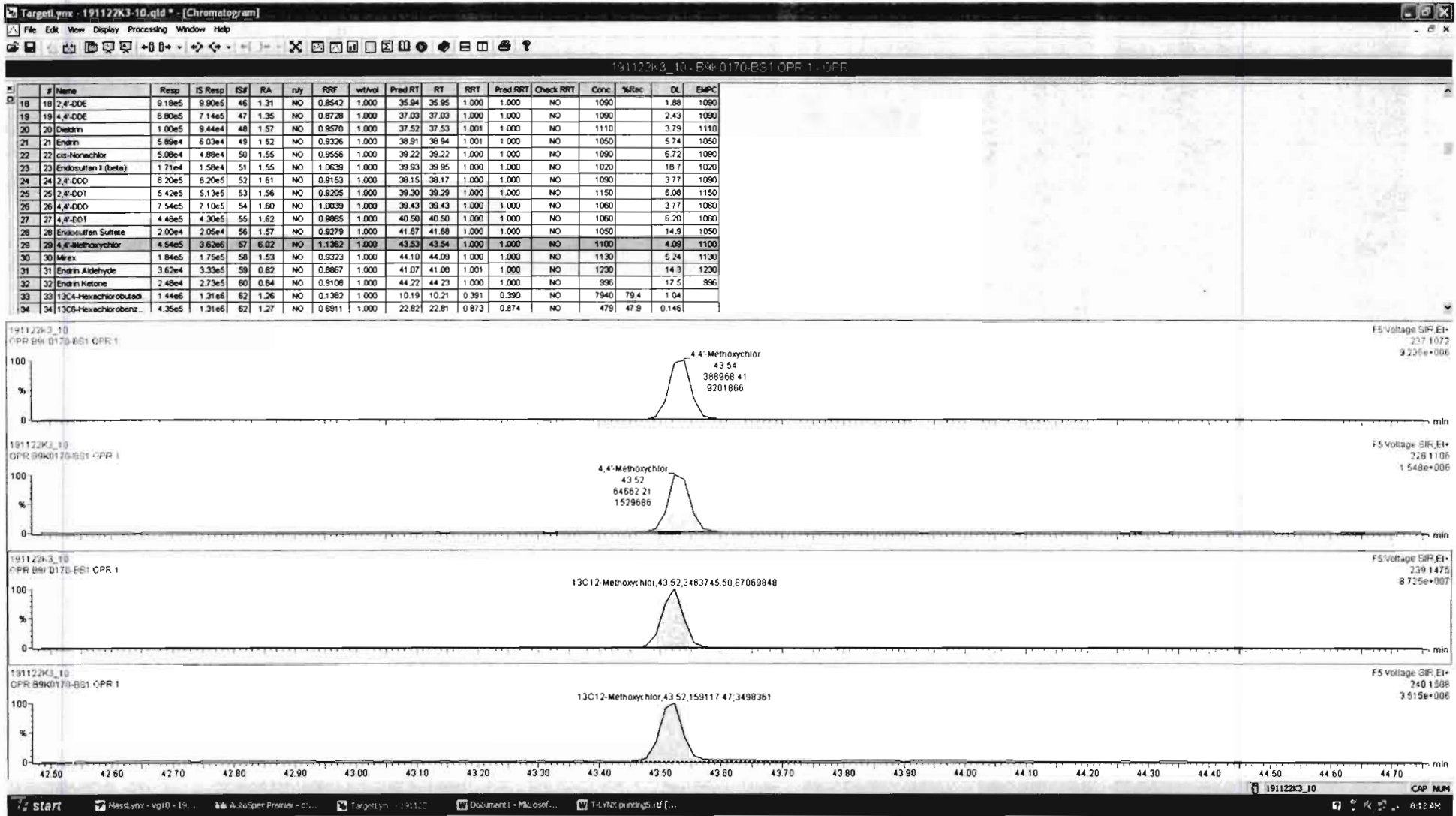
F5:Voltage SIR,EI+
239.1475
8.725e+007



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

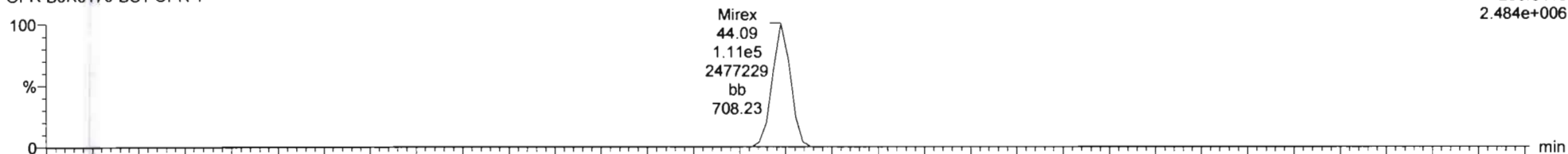
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

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Mirex

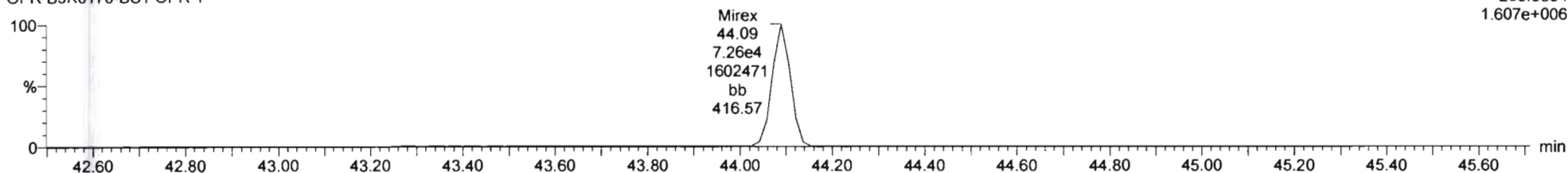
191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
236.8413
2.484e+006



191122K3_10
OPR B9K0170-BS1 OPR 1

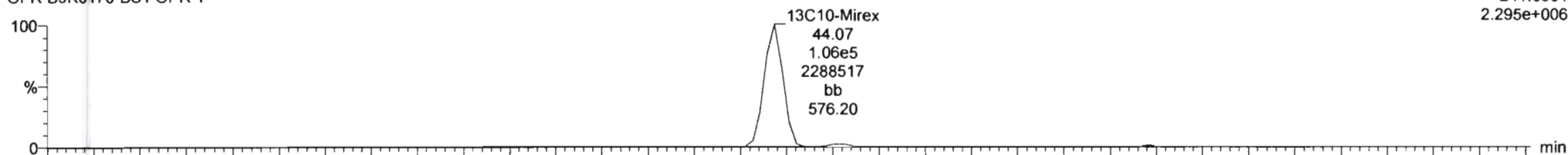
F5:Voltage SIR,EI+
238.8384
1.607e+006



13C10-Mirex

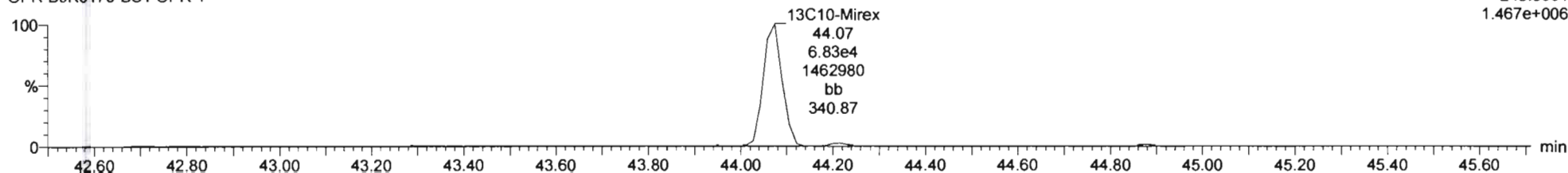
191122K3_10
OPR B9K0170-BS1 OPR 1

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

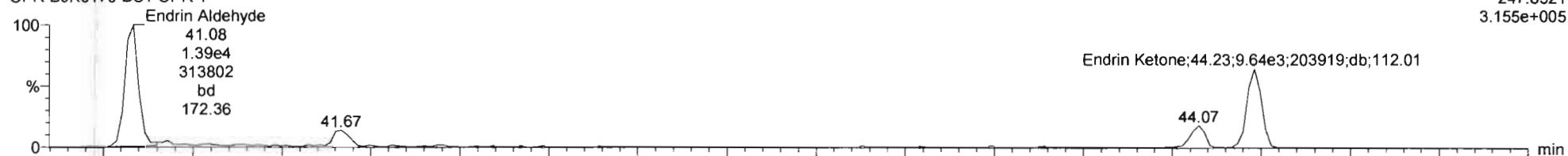
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Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

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EA-EK

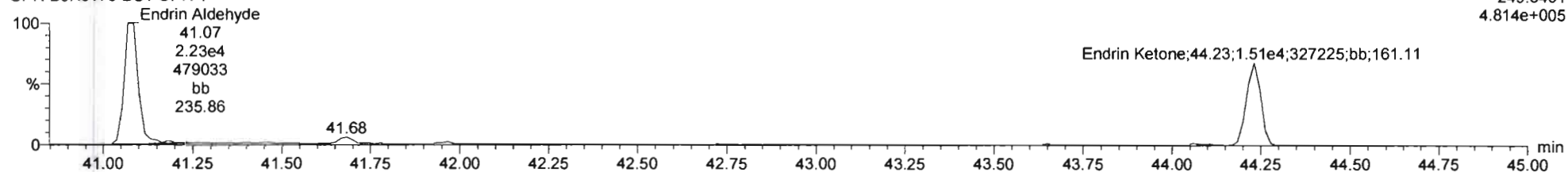
191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
247.8521
3.155e+005



191122K3_10
OPR B9K0170-BS1 OPR 1

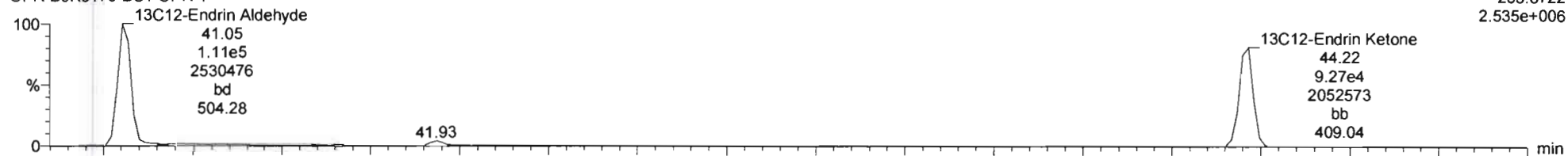
F5:Voltage SIR,EI+
249.8491
4.814e+005



EA-EK-isotopes

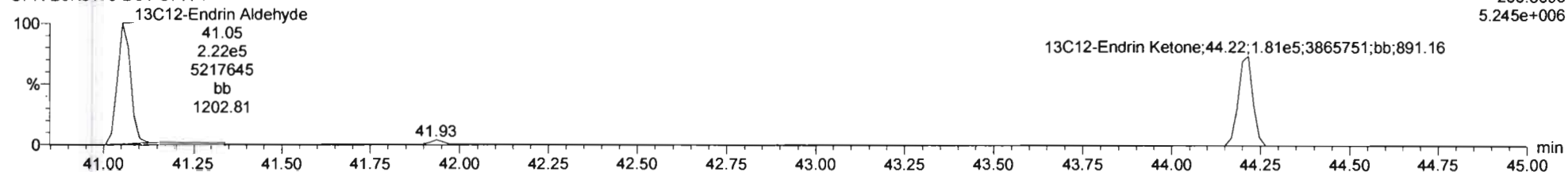
191122K3_10
OPR B9K0170-BS1 OPR 1

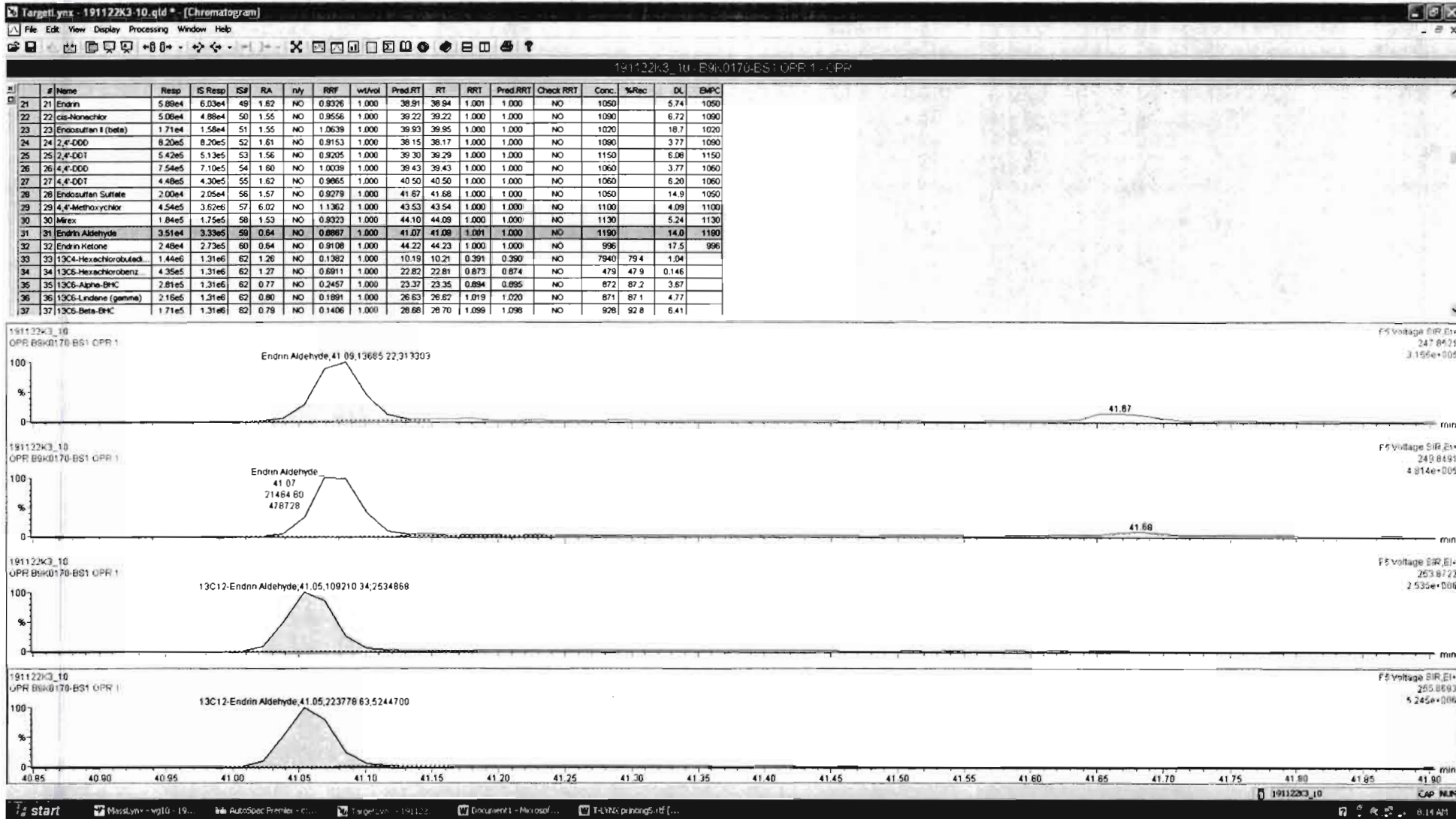
F5:Voltage SIR,EI+
253.8722
2.535e+006



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

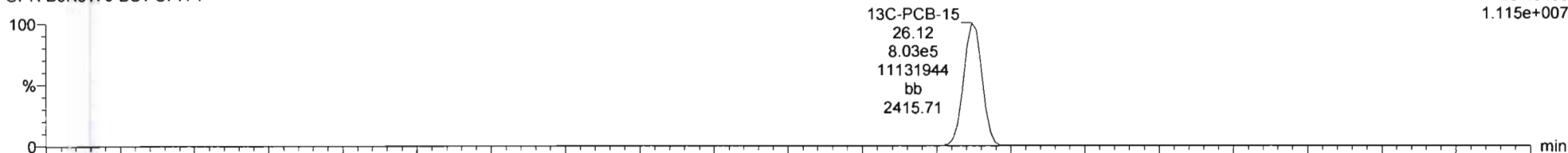
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

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13C-PCB-15

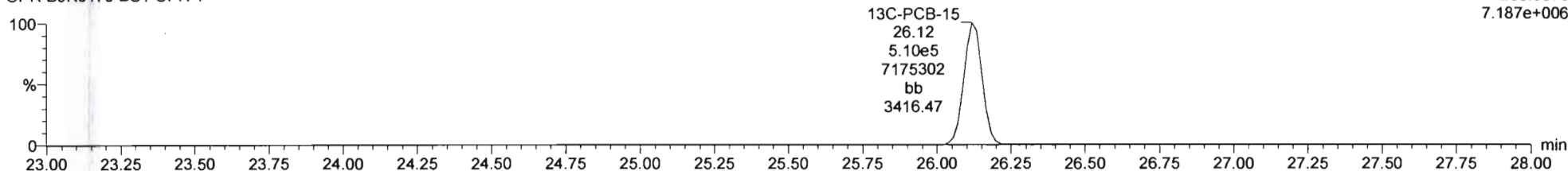
191122K3_10
OPR B9K0170-BS1 OPR 1

F2:Voltage SIR,EI+
234.0406
1.115e+007



191122K3_10
OPR B9K0170-BS1 OPR 1

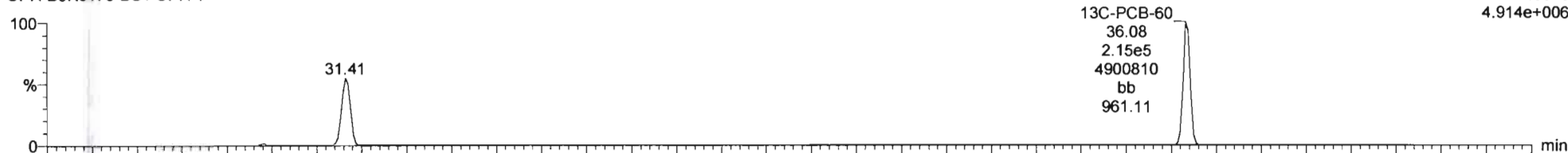
F2:Voltage SIR,EI+
236.0376
7.187e+006



13C-PCB-60

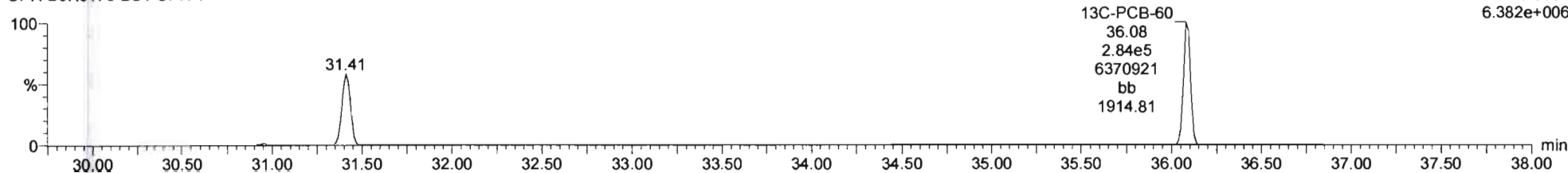
191122K3_10
OPR B9K0170-BS1 OPR 1

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

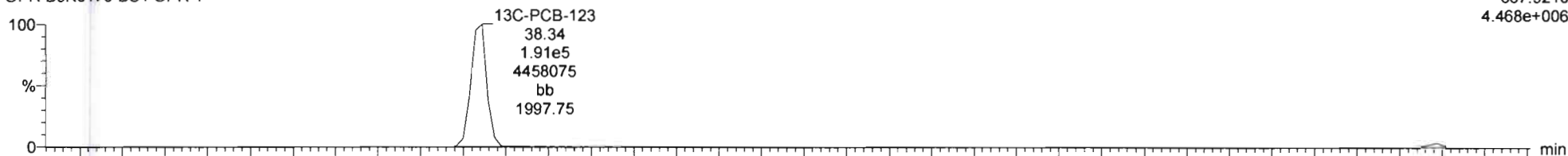
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

13C-PCB-123

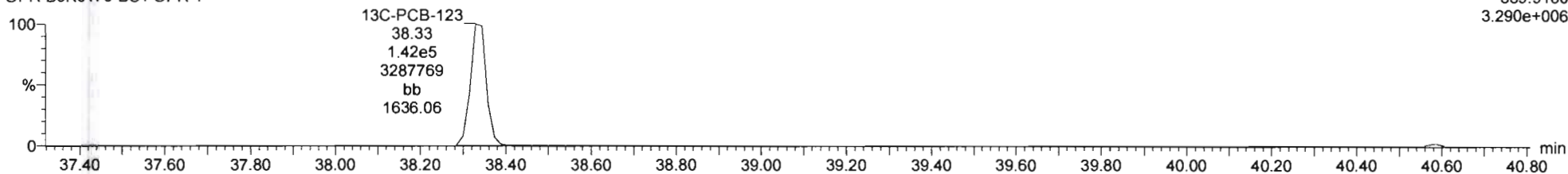
191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
337.9210
4.468e+006



191122K3_10
OPR B9K0170-BS1 OPR 1

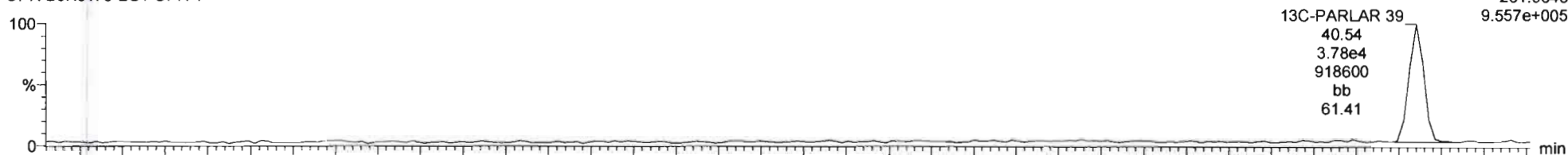
F4:Voltage SIR,EI+
339.9180
3.290e+006



13C-PARLAR 39

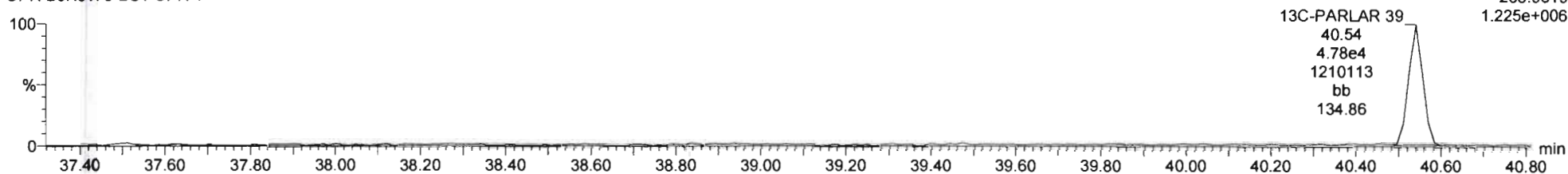
191122K3_10
OPR B9K0170-BS1 OPR 1

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

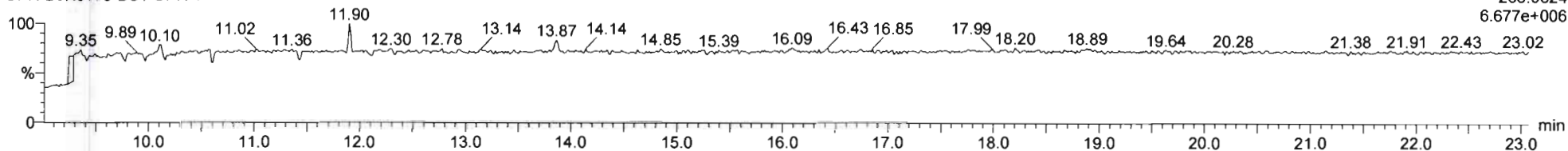
Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

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

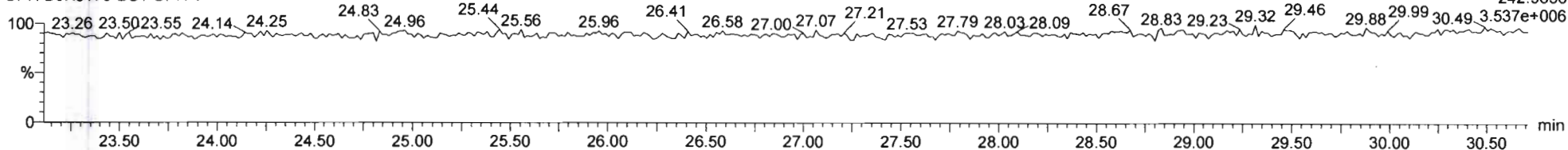
F1:Voltage SIR,EI+
268.9824
6.677e+006



PFK2

191122K3_10
OPR B9K0170-BS1 OPR 1

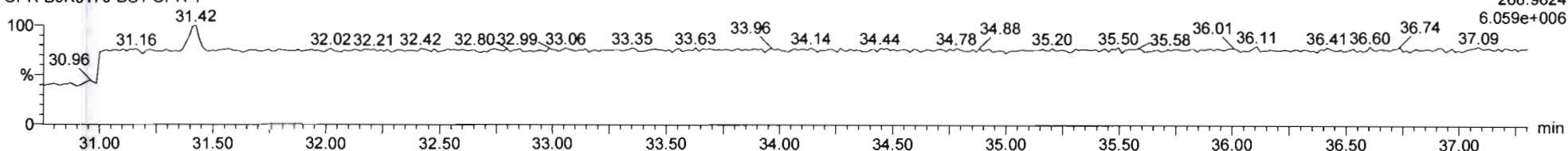
F2:Voltage SIR,EI+
242.9856
3.537e+006



PFK3

191122K3_10
OPR B9K0170-BS1 OPR 1

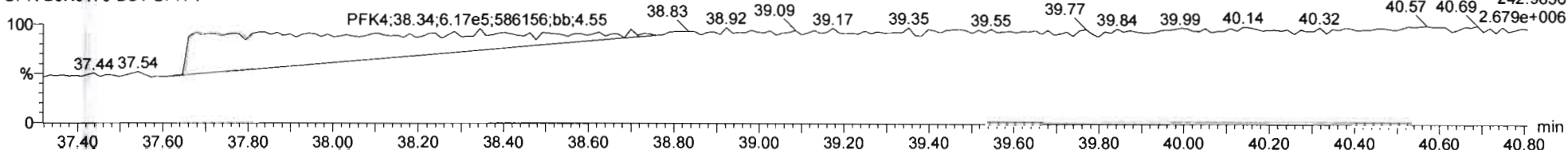
F3:Voltage SIR,EI+
268.9824
6.059e+006



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

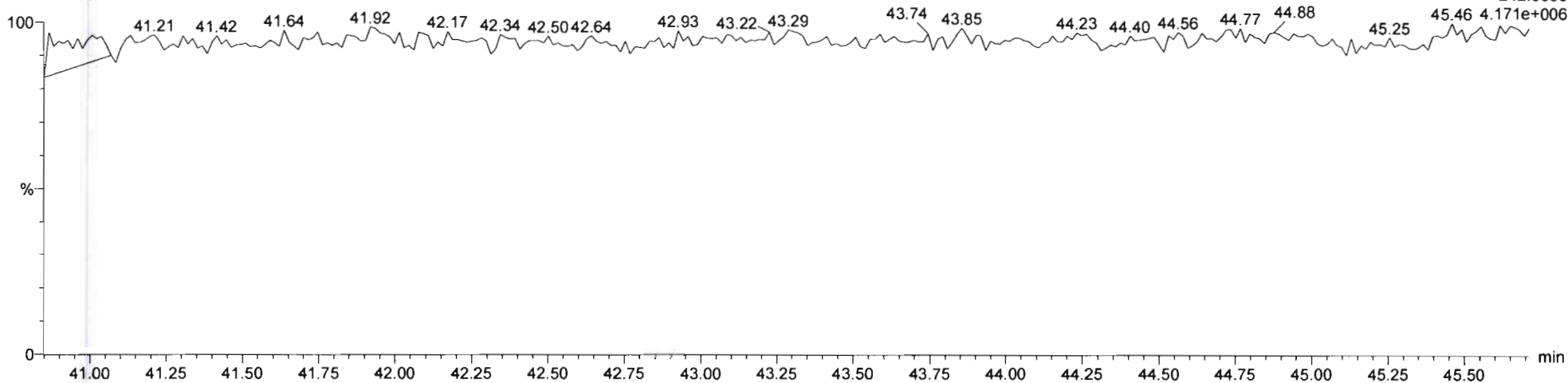
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

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	

Dataset: Untitled

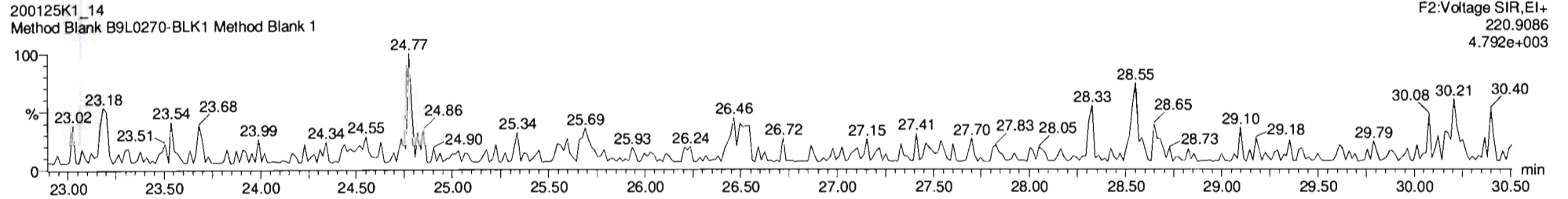
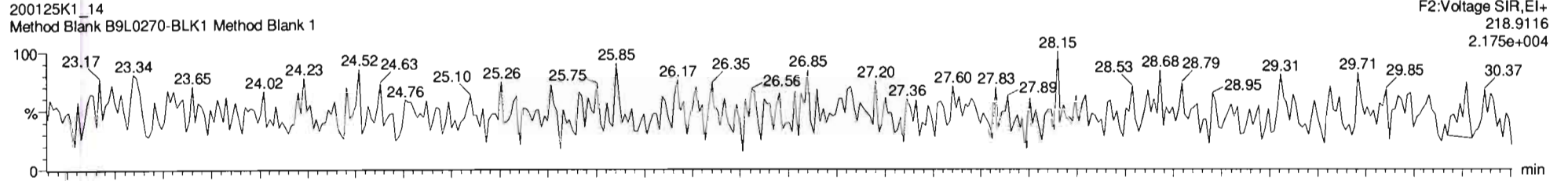
Last Altered: Monday, January 27, 2020 11:02:20 Pacific Standard Time

Printed: Monday, January 27, 2020 11:03:04 Pacific Standard Time

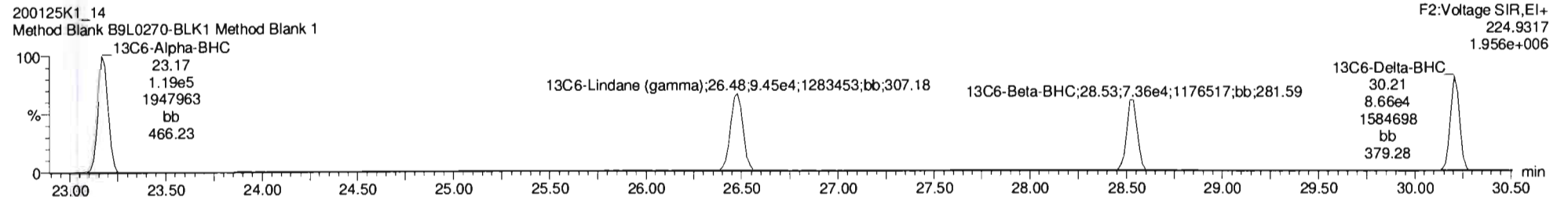
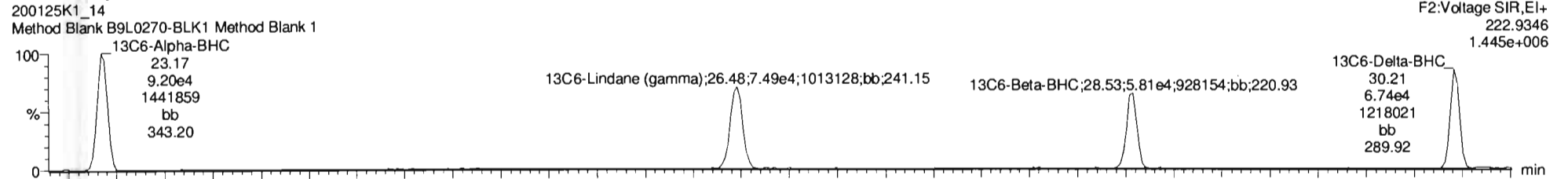
Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

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

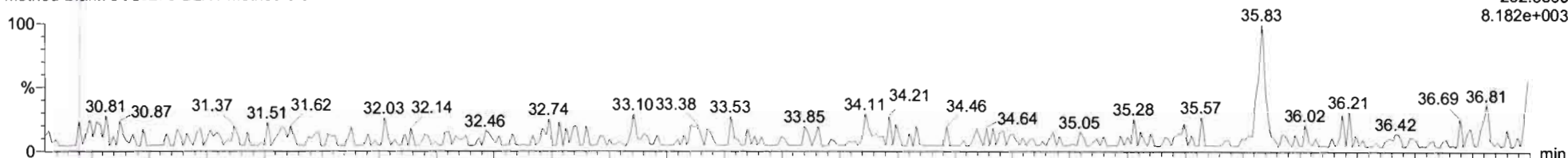
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

Aldrin-EI

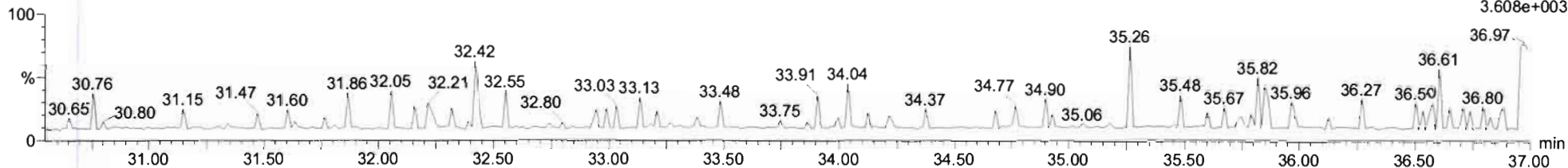
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F3:Voltage SIR,EI+
262.8569
8.182e+003



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

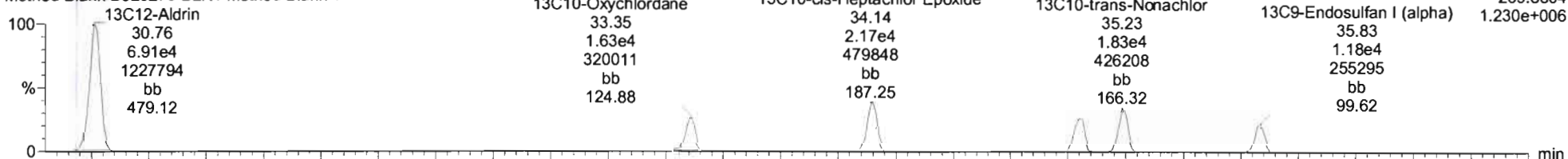
F3:Voltage SIR,EI+
264.8550
3.608e+003



Aldrin-EI-isotopes

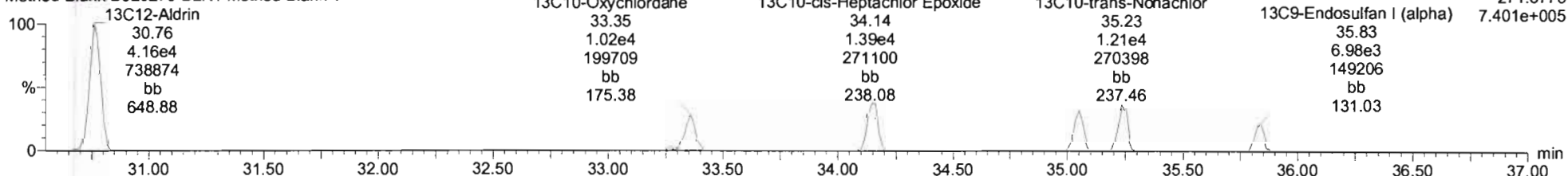
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

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

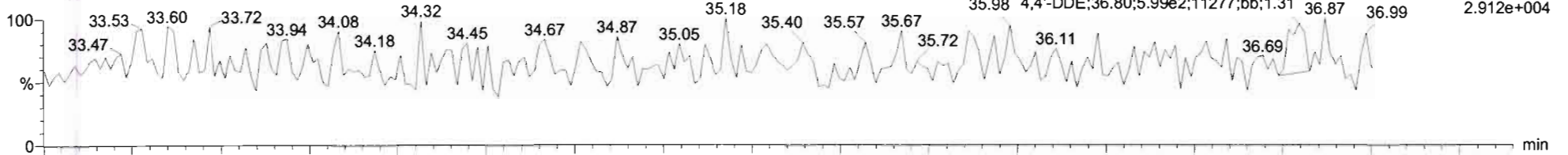
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

DDMU-DDE

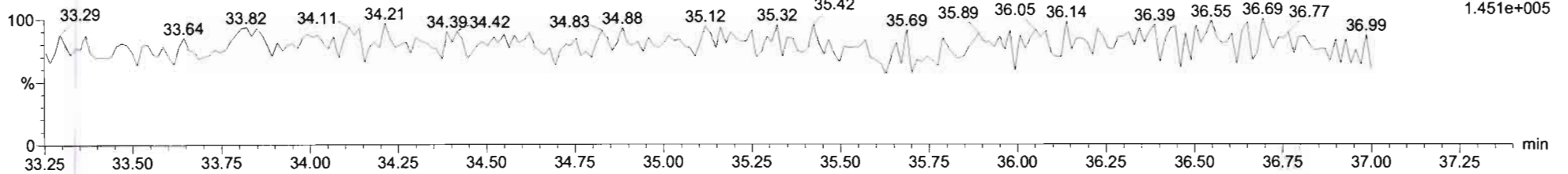
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F3:Voltage SIR,EI+
246.0003
2.912e+004



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

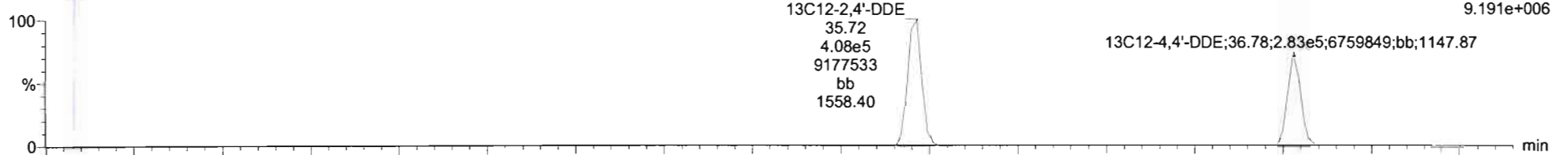
F3:Voltage SIR,EI+
247.9974
1.451e+005



DDE-isotopes

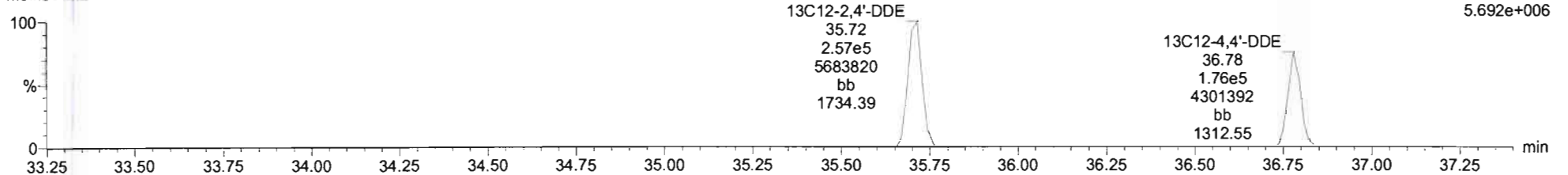
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

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

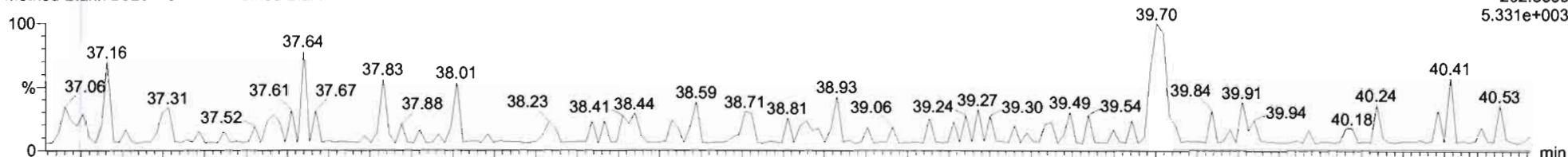
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

Dieldrin-Ell

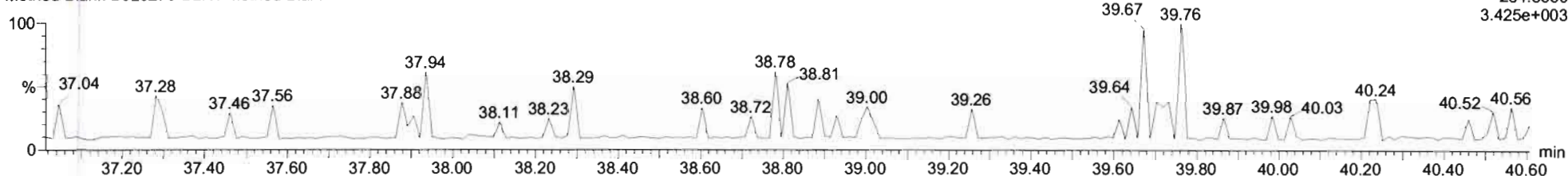
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

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

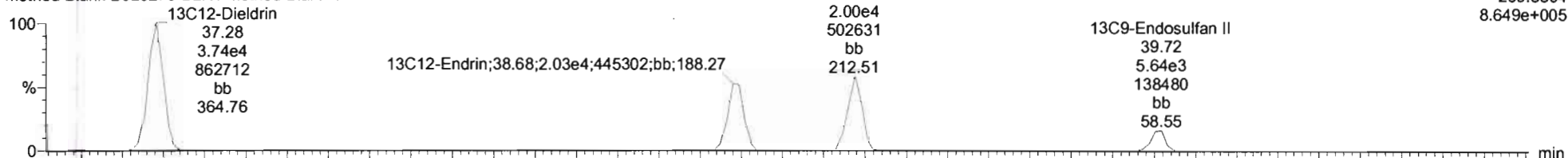


Dieldrin-Ell-isotopes

200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

13C10-cis-Nonachlor

F4:Voltage SIR,EI+
269.8804
8.649e+005

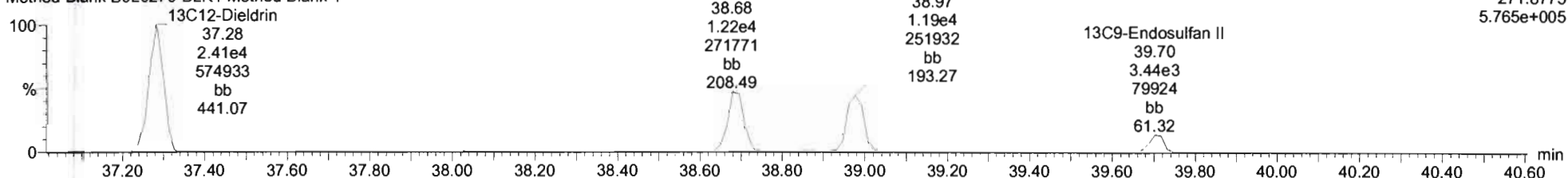


200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

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

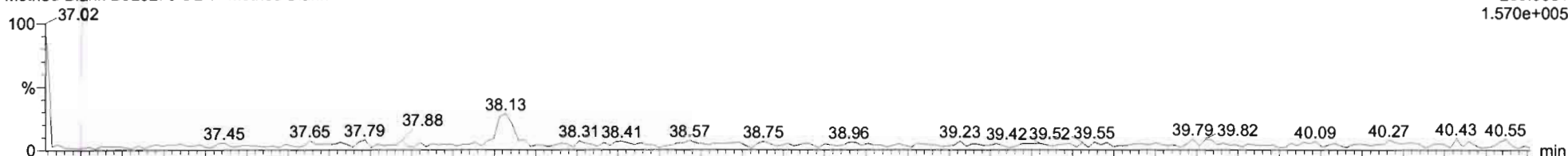
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

DDD-DDT

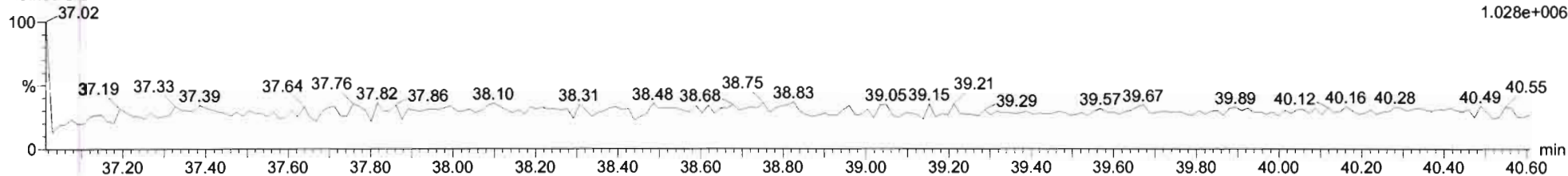
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F4:Voltage SIR,EI+
235.0081
1.570e+005



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

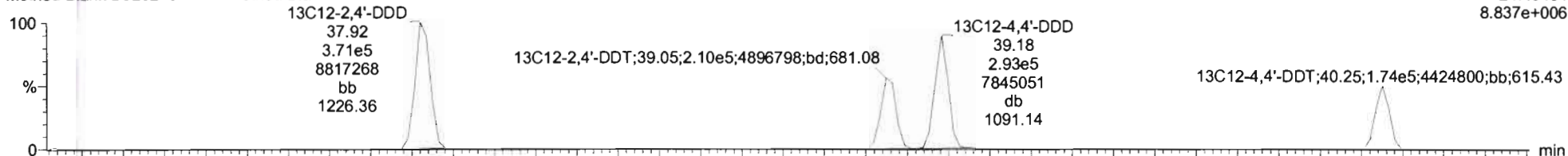
F4:Voltage SIR,EI+
237.0052
1.028e+006



DDD-DDT-isotopes

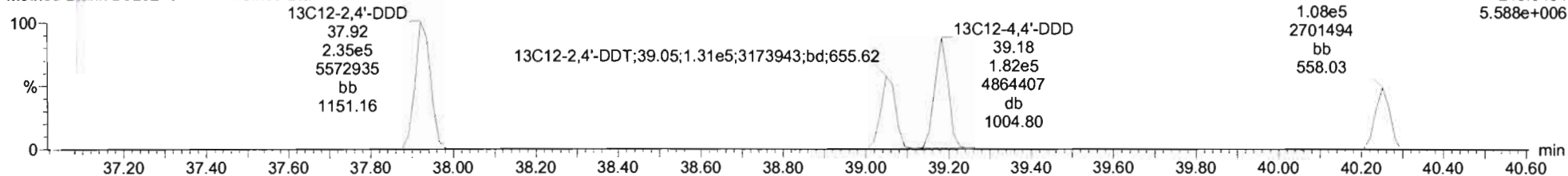
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

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

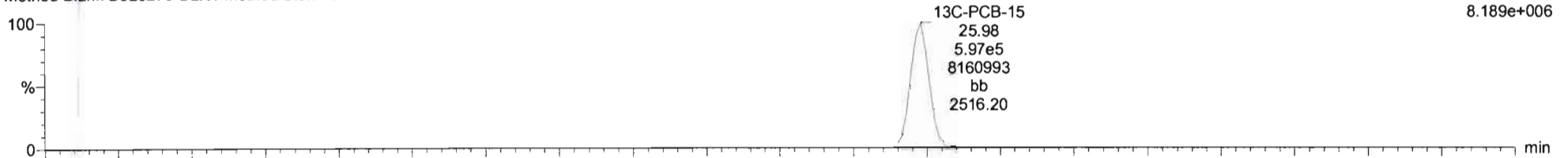
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

13C-PCB-15

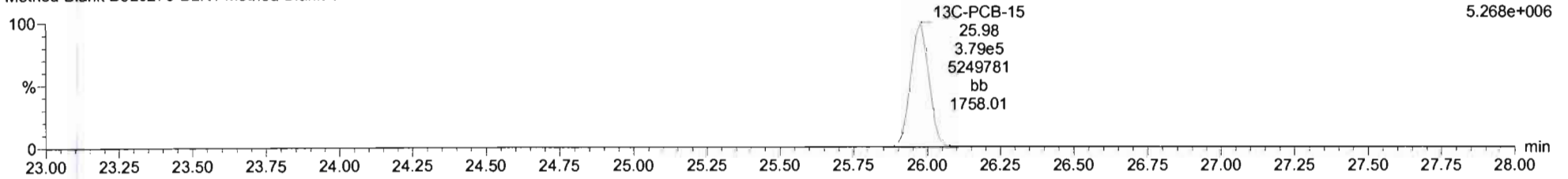
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F2:Voltage SIR,EI+
234.0406
8.189e+006



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

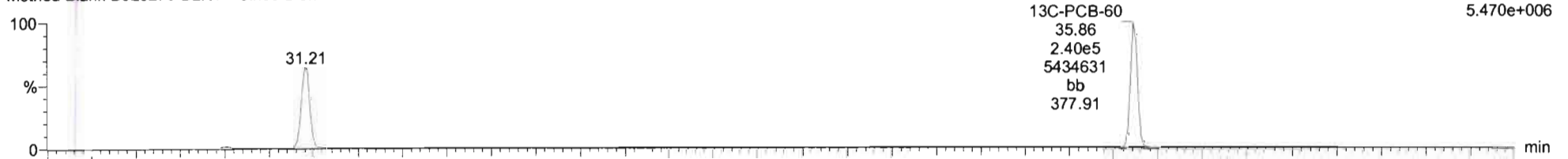
F2:Voltage SIR,EI+
236.0376
5.268e+006



13C-PCB-60

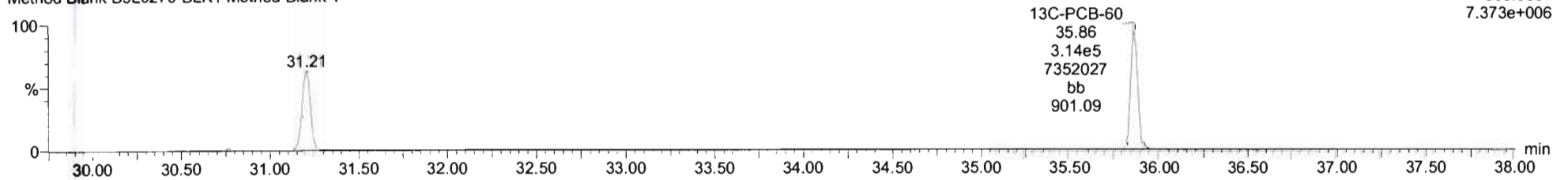
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

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

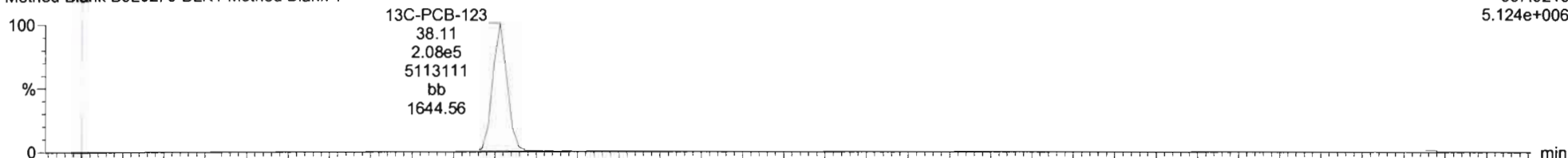
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

13C-PCB-123

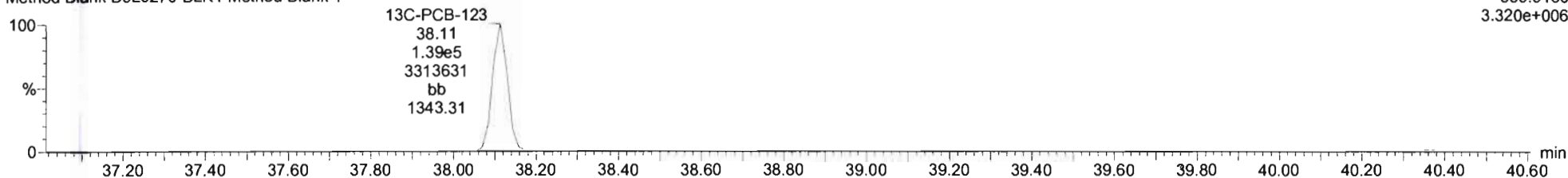
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F4:Voltage SIR,EI+
337.9210
5.124e+006



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

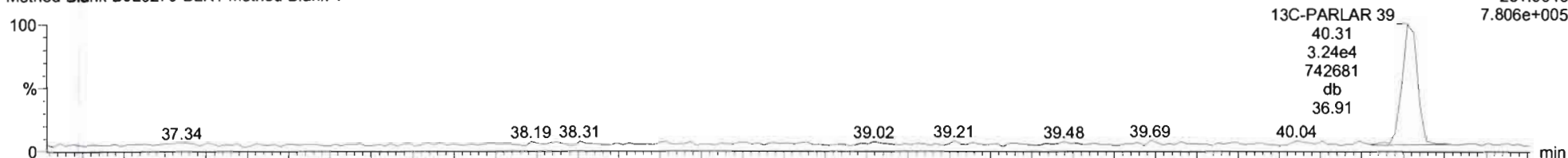
F4:Voltage SIR,EI+
339.9180
3.320e+006



13C-PARLAR 39

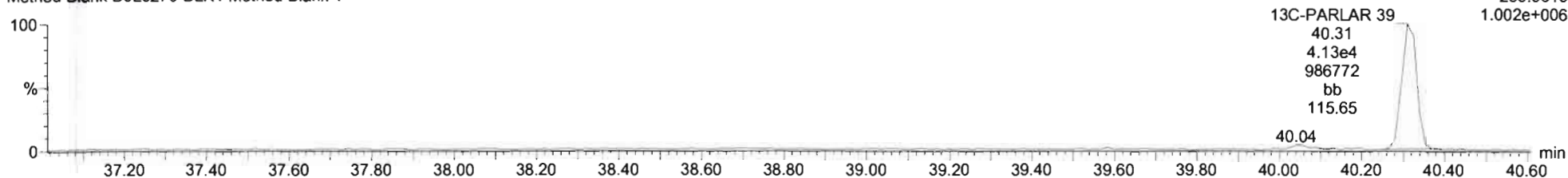
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

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

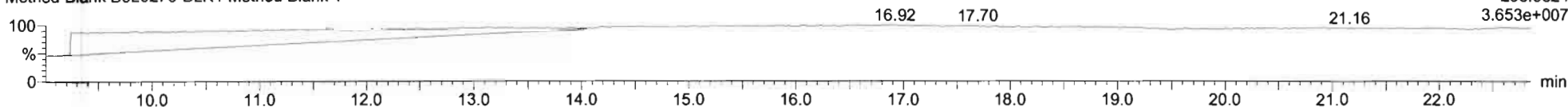
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

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

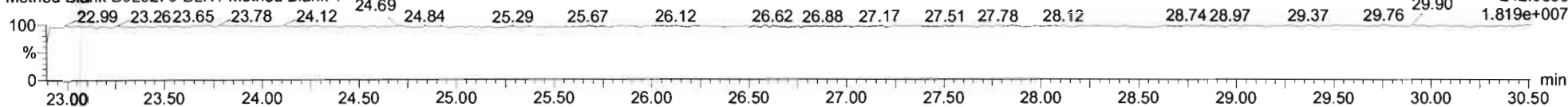
F1:Voltage SIR,EI+
268.9824
3.653e+007



PFK2

200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

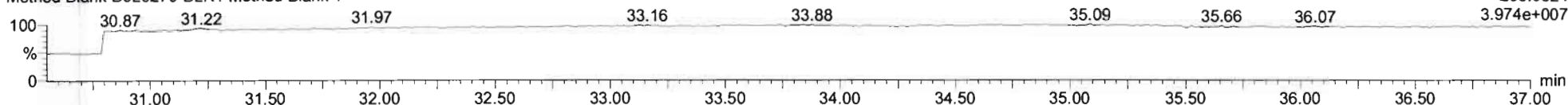
F2:Voltage SIR,EI+
242.9856
1.819e+007



PFK3

200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

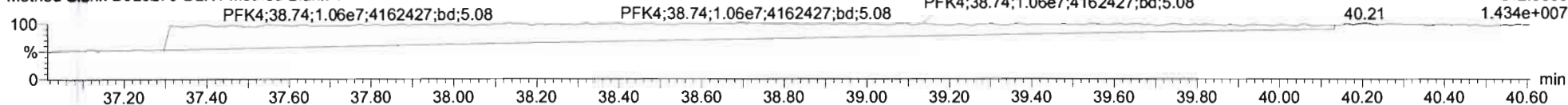
F3:Voltage SIR,EI+
268.9824
3.974e+007



PFK4

200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

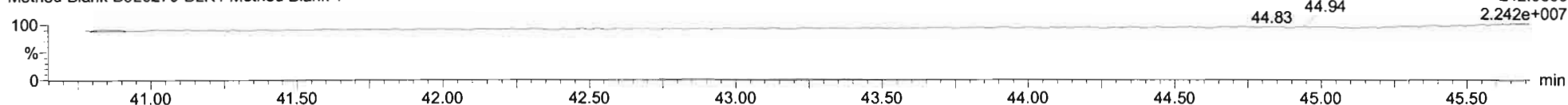
F4:Voltage SIR,EI+
242.9856
1.434e+007



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 Oxychlordane	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

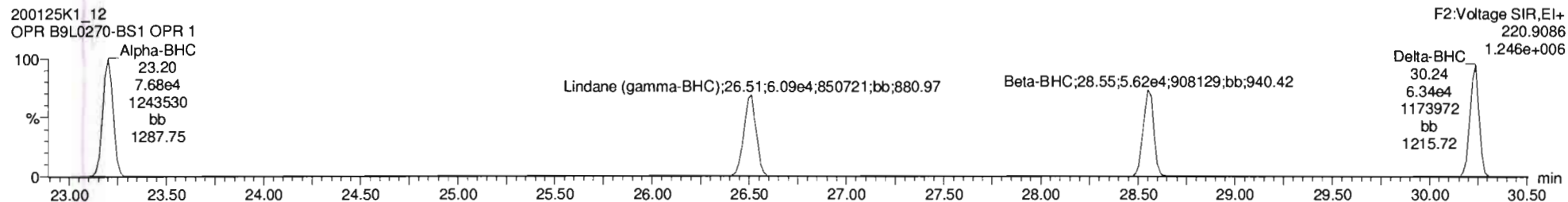
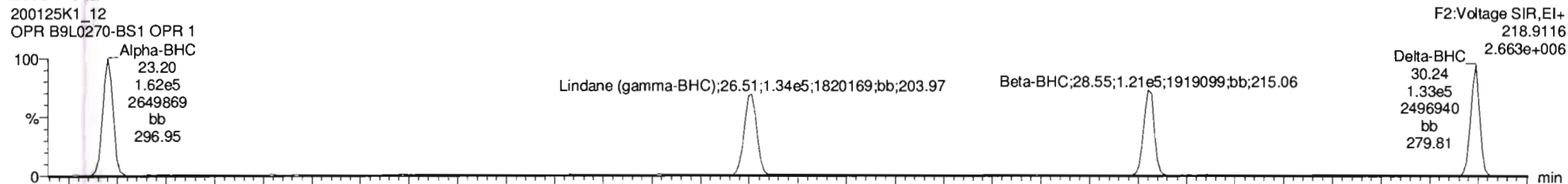
Printed: Monday, January 27, 2020 11:00:44 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

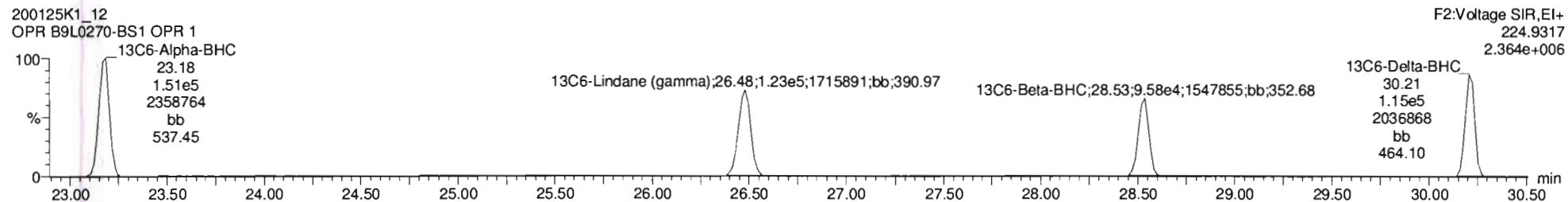
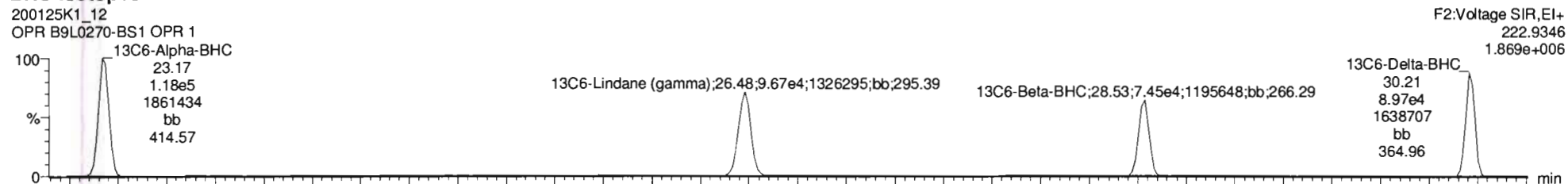
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200125K1_12, Date: 25-Jan-2020, Time: 22:09:02, ID: B9L0270-BS1 OPR 1, Description: OPR

BHC Totals



BHC-isotopes



Dataset: Untitled

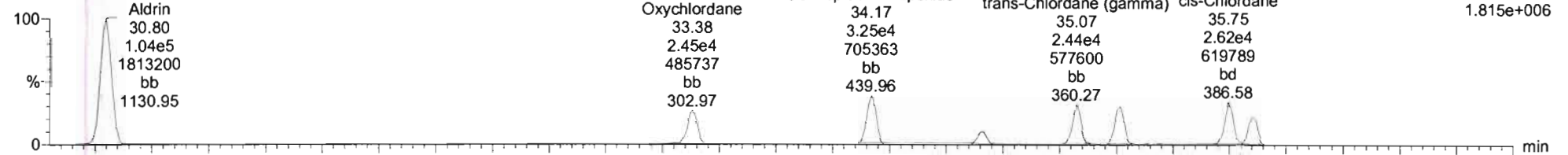
Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

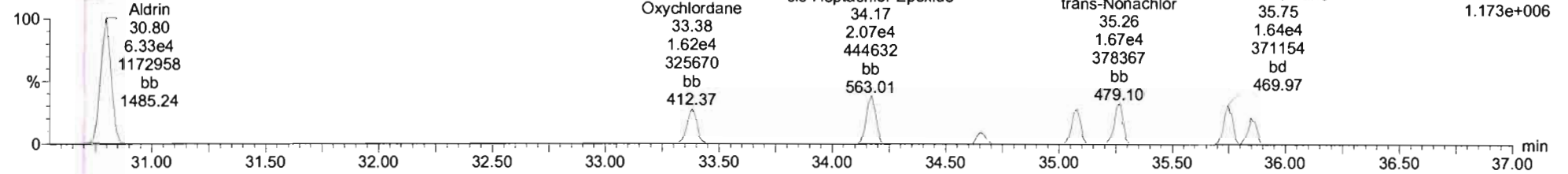
Name: 200125K1_12, Date: 25-Jan-2020, Time: 22:09:02, ID: B9L0270-BS1 OPR 1, Description: OPR

Aldrin-EI

200125K1_12
OPR B9L0270-BS1 OPR 1

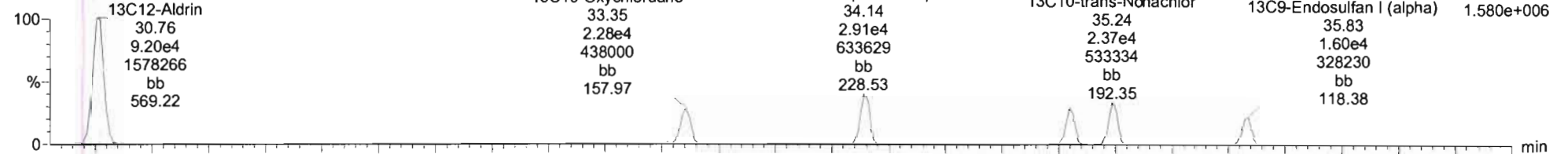


200125K1_12
OPR B9L0270-BS1 OPR 1

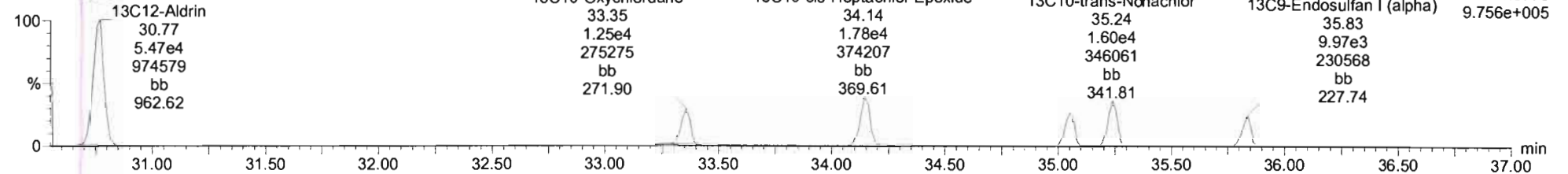


Aldrin-EI-isotopes

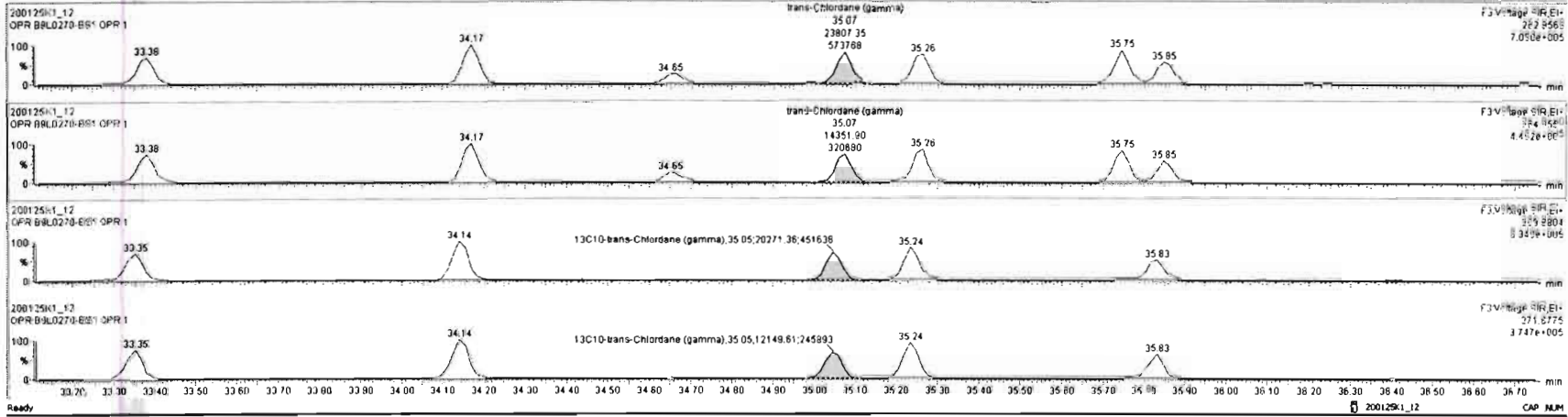
200125K1_12
OPR B9L0270-BS1 OPR 1



200125K1_12
OPR B9L0270-BS1 OPR 1



#	Name	Resp	IS Resp	IS#	RA	ny	RRF	wtWgt	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
1	Hexachlorobenzene	2.03e4	1.35e6	33	0.09	YES	0.0039	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	36.80	36.80	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	trans-Chlordane	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



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

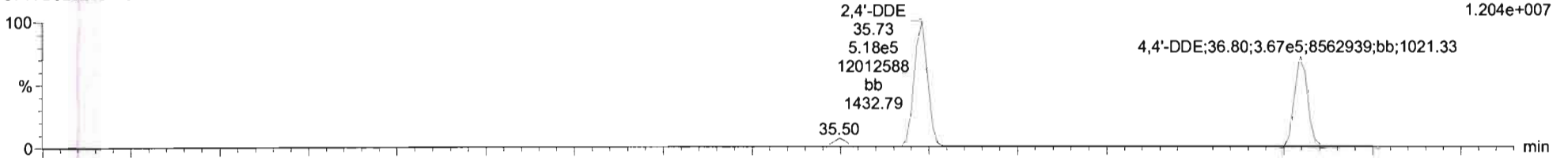
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_12, Date: 25-Jan-2020, Time: 22:09:02, ID: B9L0270-BS1 OPR 1, Description: OPR

DDMU-DDE

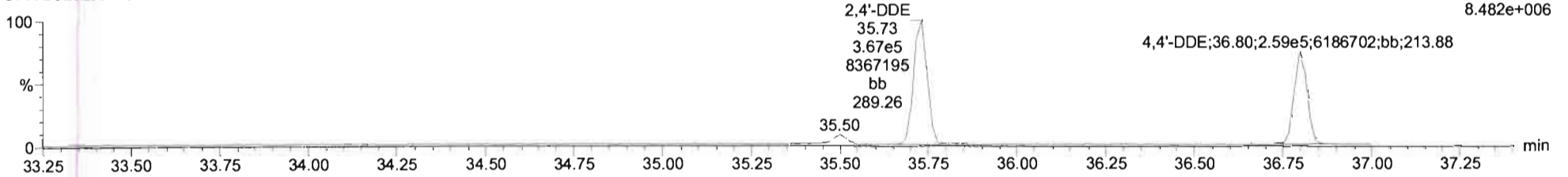
200125K1_12
OPR B9L0270-BS1 OPR 1

F3:Voltage SIR,EI+
246.0003
1.204e+007



200125K1_12
OPR B9L0270-BS1 OPR 1

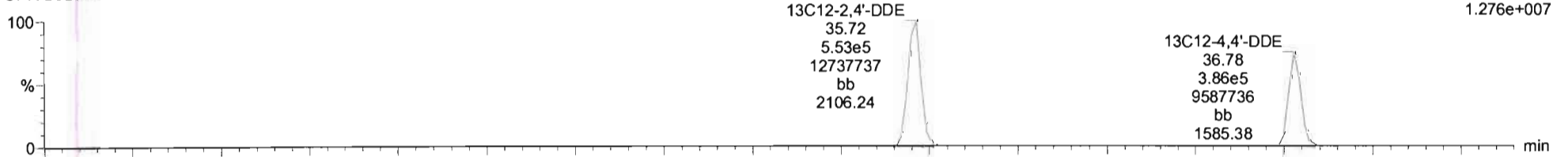
F3:Voltage SIR,EI+
247.9974
8.482e+006



DDE-isotopes

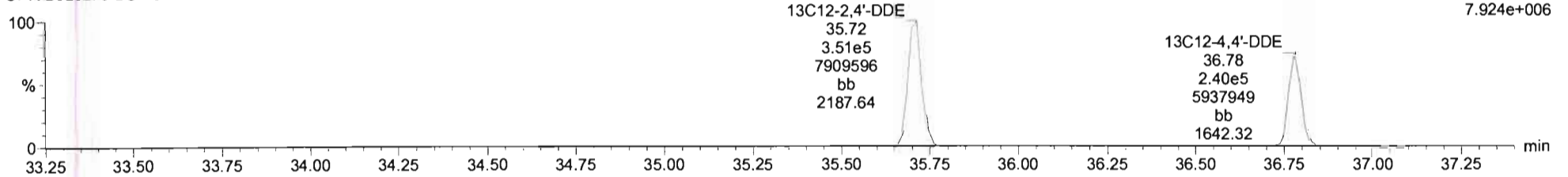
200125K1_12
OPR B9L0270-BS1 OPR 1

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

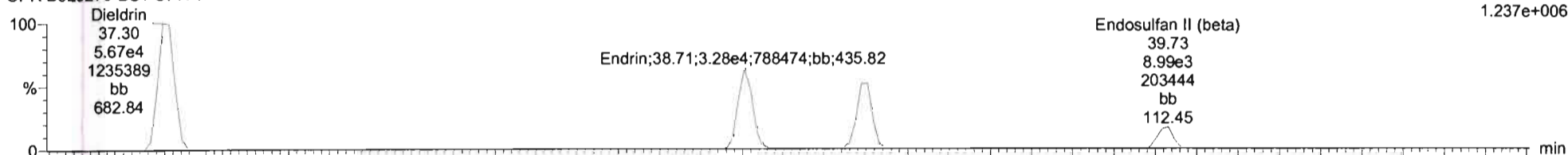
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_12, Date: 25-Jan-2020, Time: 22:09:02, ID: B9L0270-BS1 OPR 1, Description: OPR

Dieldrin-EI1

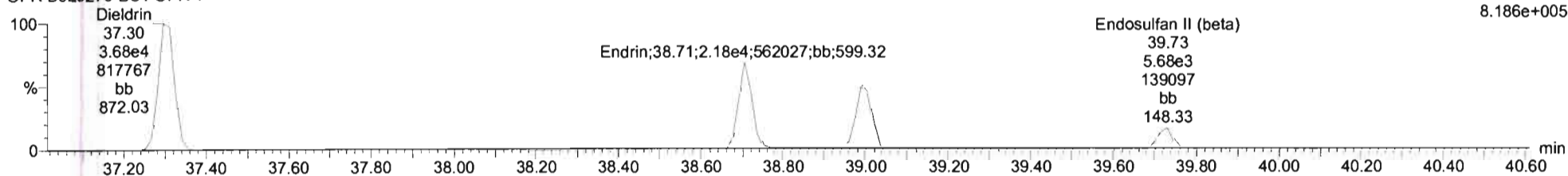
200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
262.8569
1.237e+006



200125K1_12
OPR B9L0270-BS1 OPR 1

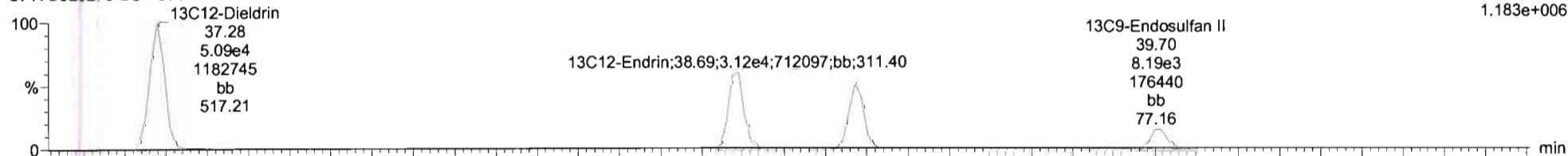
F4:Voltage SIR,EI+
264.8550
8.186e+005



Dieldrin-EI1-isotopes

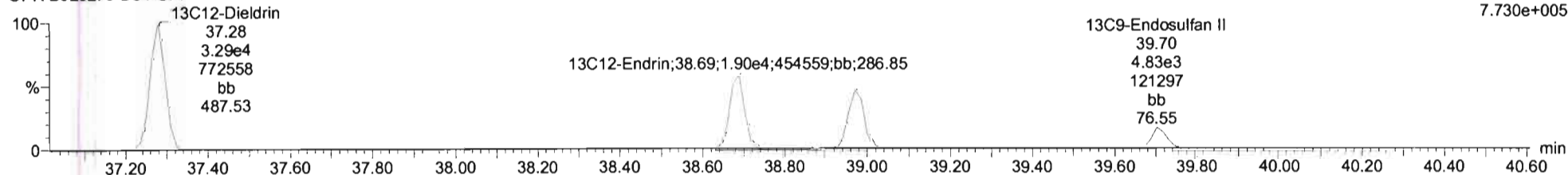
200125K1_12
OPR B9L0270-BS1 OPR 1

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

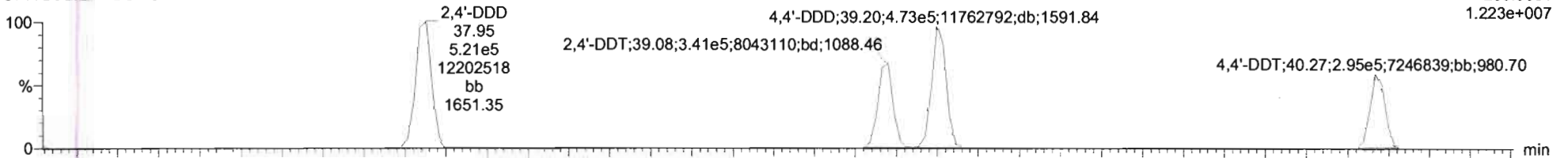
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_12, Date: 25-Jan-2020, Time: 22:09:02, ID: B9L0270-BS1 OPR 1, Description: OPR

DDD-DDT

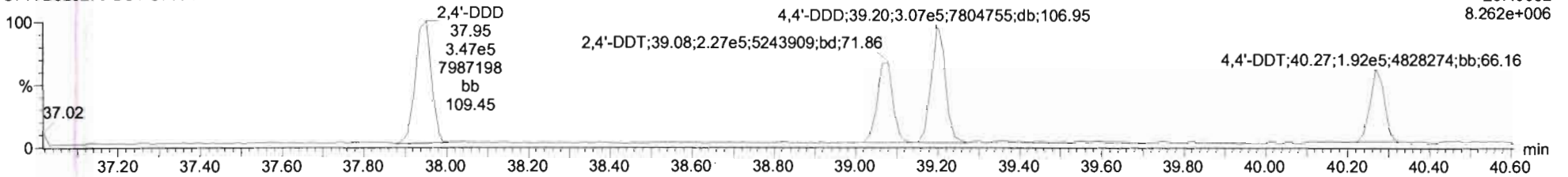
200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
235.0081
1.223e+007



200125K1_12
OPR B9L0270-BS1 OPR 1

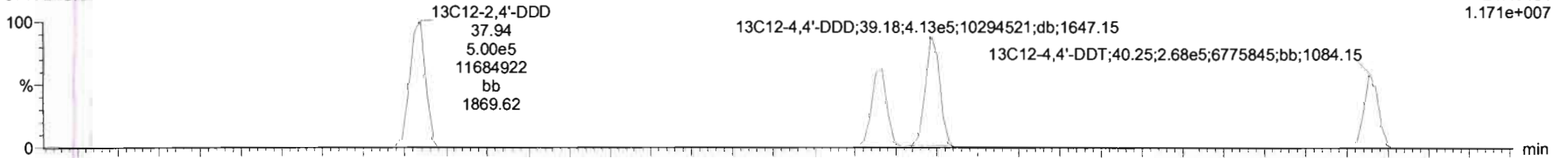
F4:Voltage SIR,EI+
237.0052
8.262e+006



DDD-DDT-isotopes

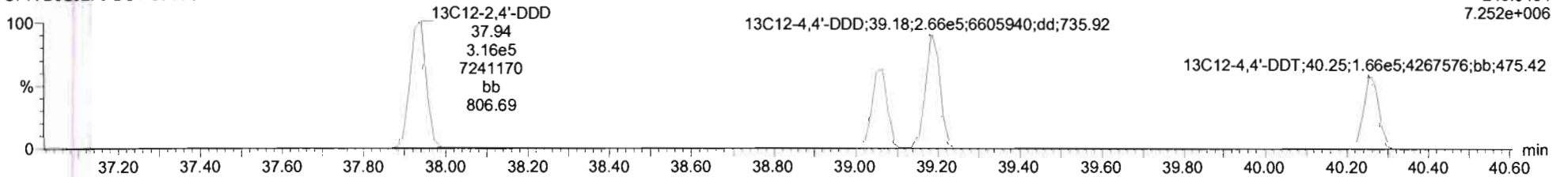
200125K1_12
OPR B9L0270-BS1 OPR 1

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

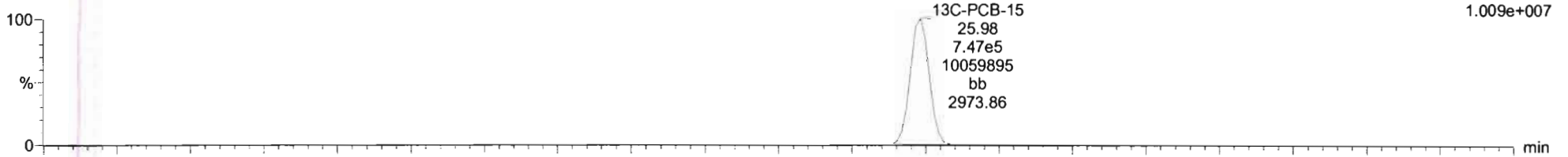
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

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13C-PCB-15

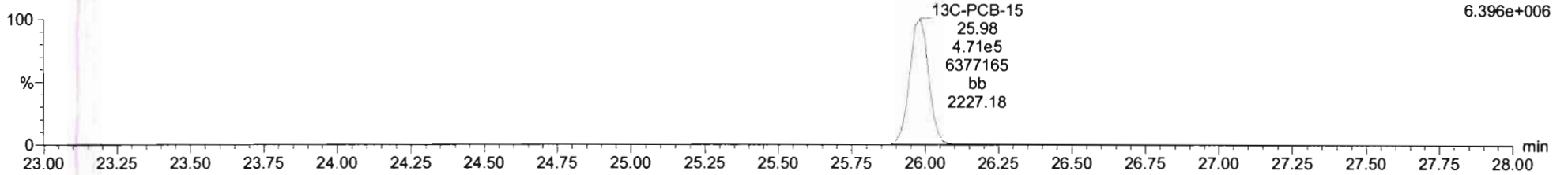
200125K1_12
OPR B9L0270-BS1 OPR 1

F2:Voltage SIR,EI+
234.0406
1.009e+007



200125K1_12
OPR B9L0270-BS1 OPR 1

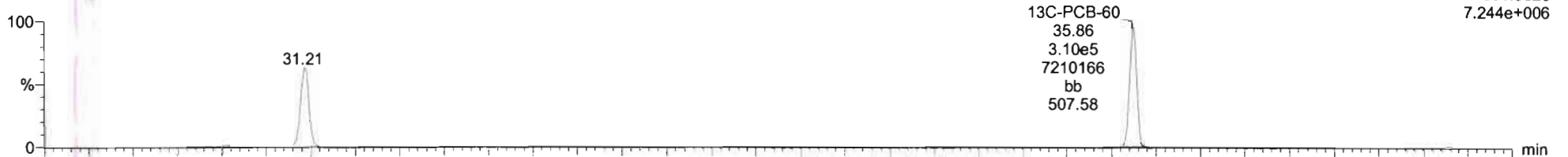
F2:Voltage SIR,EI+
236.0376
6.396e+006



13C-PCB-60

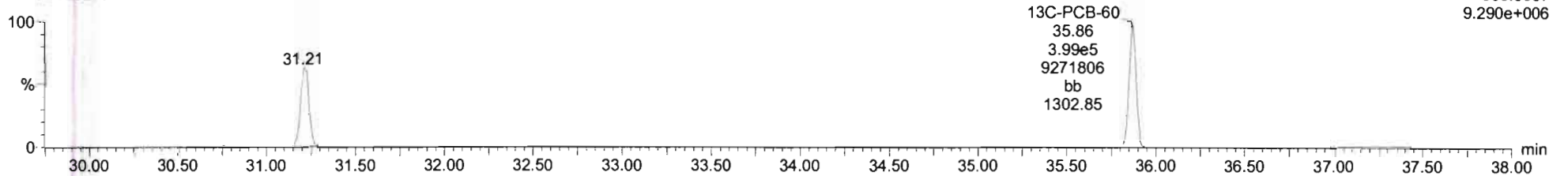
200125K1_12
OPR B9L0270-BS1 OPR 1

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

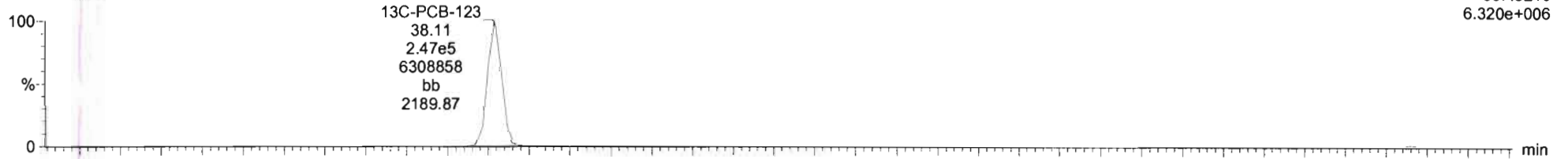
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_12, Date: 25-Jan-2020, Time: 22:09:02, ID: B9L0270-BS1 OPR 1, Description: OPR

13C-PCB-123

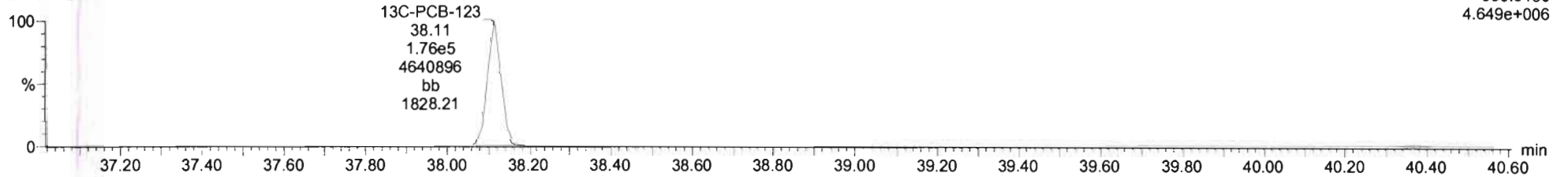
200125K1_12
OPR B9L0270-BS1 OPR 1

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

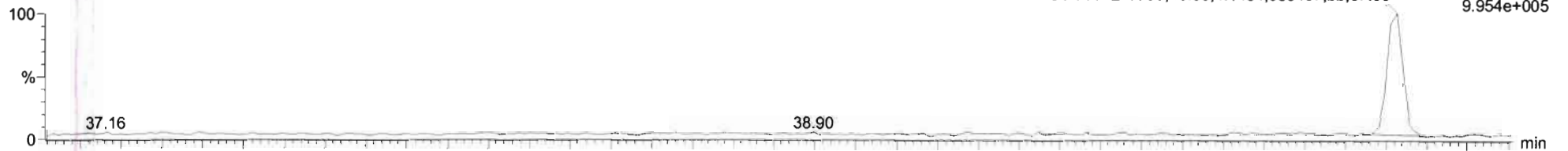


13C-PARLAR 39

200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
251.9648
9.954e+005

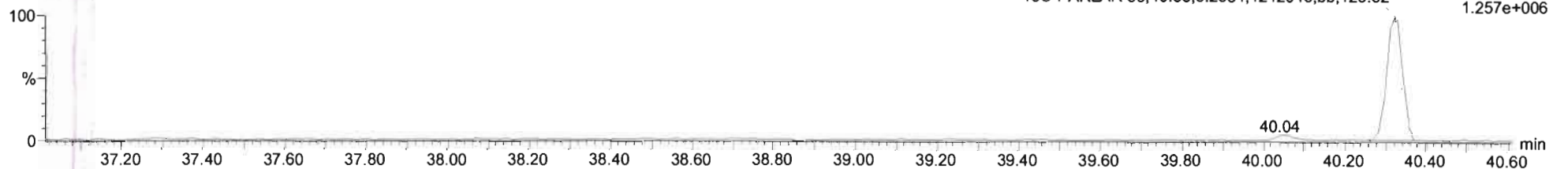
13C-PARLAR 39;40.33;4.14e4;953487;bb;57.33



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

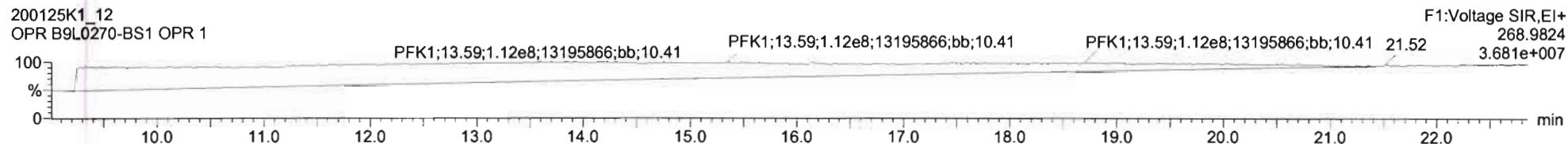
Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

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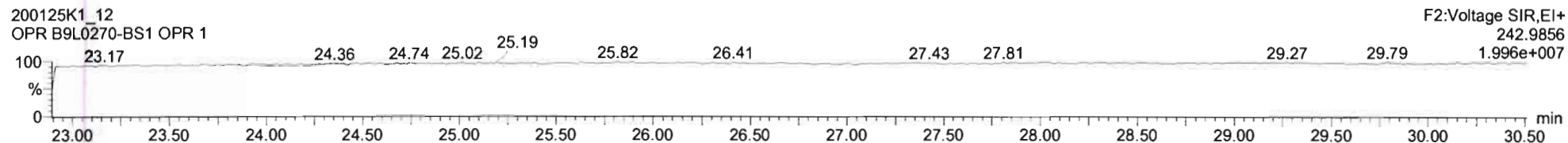
PFK1

200125K1_12
OPR B9L0270-BS1 OPR 1



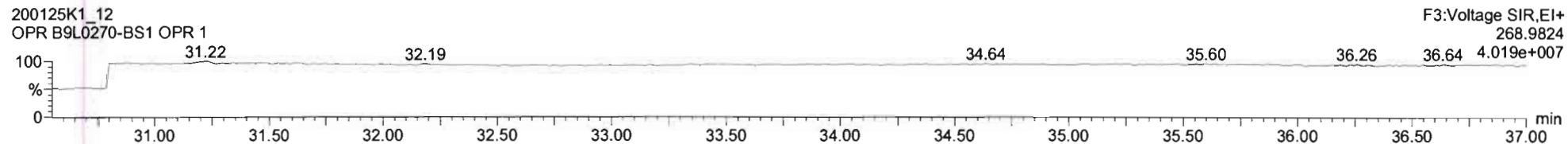
PFK2

200125K1_12
OPR B9L0270-BS1 OPR 1



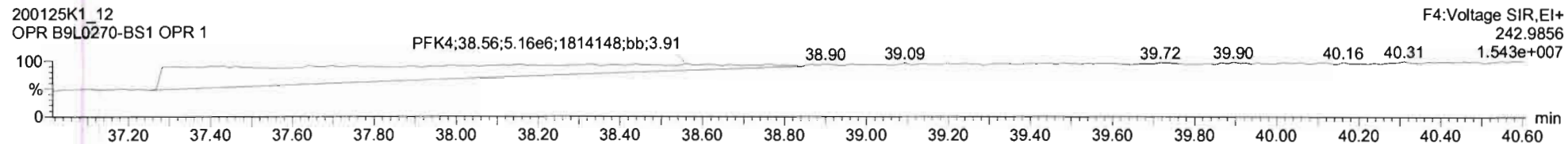
PFK3

200125K1_12
OPR B9L0270-BS1 OPR 1



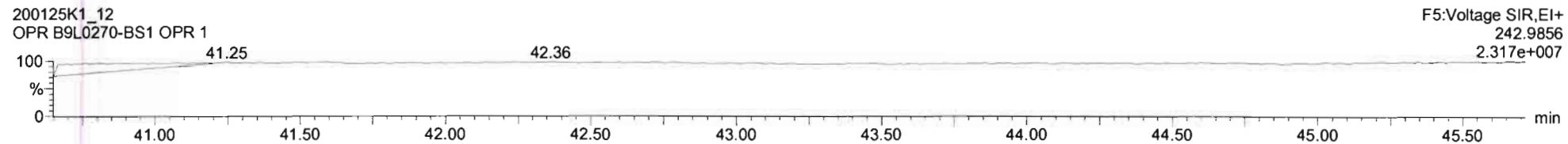
PFK4

200125K1_12
OPR B9L0270-BS1 OPR 1



PFK5

200125K1_12
OPR B9L0270-BS1 OPR 1



Dataset: U:\VG11.PRO\Results\191122K4\191122K4-5.qld

Last Altered: Tuesday, November 26, 2019 15:31:18 Pacific Standard Time

Printed: Tuesday, November 26, 2019 15:32:05 Pacific Standard Time

2/5/20

GRB 11/26/19

C7 02/07/2020

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: 191122K4_5, Date: 23-Nov-2019, Time: 11:52:49, ID: 1904016-03 PDI-140RAB-00-10-191108 1, Description: PDI-140RAB-00-10-191108

#	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)		1.67e5		NO	0.744	1.006	26.65			1.001	YES			5.81	
2	9 Aldrin		1.03e5		NO	1.02	1.006	30.97			1.001	YES			3.54	
3	10 Oxychlorane		2.50e4		NO	0.992	1.006	33.58			1.001	YES			12.5	
4	13 trans-Chlordane (gam...		2.62e4		NO	1.08	1.006	35.28			1.001	YES			9.85	
5	14 trans-Nonachlor		2.97e4		NO	1.00	1.006	35.47			1.001	YES			9.81	
6	15 cis-Chlordane		2.97e4		NO	0.981	1.006	35.96			1.014	YES			10.0	
7	18 2,4'-DDE	4.06e3	7.14e5	0.83	YES	0.854	1.006	35.94	35.95	1.000	1.000	NO	6.61		2.46	4.92
8	19 4,4'-DDE	2.04e5	5.19e5	1.35	NO	0.873	1.006	37.03	37.03	1.000	1.000	NO	448		3.20	448
9	20 Dieldrin	8.08e2	6.86e4	1.39	NO	0.957	1.006	37.52	37.53	1.001	1.000	NO	12.2		5.21	12.2
10	22 cis-Nonachlor		3.60e4		NO	0.956	1.006	39.22			1.000	YES			9.21	

Dataset: U:\VG11.PRO\Results\191122K4\191122K4-5.qld

Last Altered: Tuesday, November 26, 2019 15:31:18 Pacific Standard Time

Printed: Tuesday, November 26, 2019 15:32:12 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\ldb_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K4_5, Date: 23-Nov-2019, Time: 11:52:49, ID: 1904016-03 PDI-140RAB-00-10-191108 1, Description: PDI-140RAB-00-10-191108

	# 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	1.93e4	6.03e5	1.55	NO	0.915	1.006	38.15	38.17	1.000	1.000	NO	34.8		4.38	34.8
2	25 2,4'-DDT	2.98e4	3.78e5	1.44	NO	0.921	1.006	39.30	39.29	1.000	1.000	NO	85.0		6.96	85.0
3	26 4,4'-DDD	7.08e4	5.33e5	1.54	NO	1.00	1.006	39.43	39.43	1.000	1.000	NO	132		4.24	132
4	27 4,4'-DDT	3.54e5	3.12e5	1.60	NO	0.986	1.006	40.50	40.50	1.000	1.000	NO	1140		7.65	1140
5	36 13C6-Lindane (gamma)	1.67e5	1.27e6	0.78	NO	0.189	1.006	26.63	26.62	1.019	1.020	NO	689	69.3	4.69	
6	40 13C12-Aldrin	1.03e5	1.27e6	1.66	NO	0.122	1.006	30.93	30.94	1.185	1.184	NO	664	66.8	3.69	
7	41 13C10-Oxychlorane	2.50e4	1.27e6	1.69	NO	0.0283	1.006	33.53	33.56	1.285	1.284	NO	690	69.4	15.8	
8	43 13C10-trans-Chlordan...	2.62e4	1.27e6	1.55	NO	0.0292	1.006	35.23	35.26	1.350	1.349	NO	703	70.7	15.4	
9	44 13C10-trans-Nonachlor	2.97e4	1.27e6	1.58	NO	0.0333	1.006	35.42	35.45	1.357	1.356	NO	695	69.9	13.4	

Dataset: U:\VG11.PRO\Results\191122K4\191122K4-5.qld

Last Altered: Tuesday, November 26, 2019 15:31:18 Pacific Standard Time

Printed: Tuesday, November 26, 2019 15:32:19 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: 191122K4_5, Date: 23-Nov-2019, Time: 11:52:49, ID: 1904016-03 PDI-140RAB-00-10-191108 1, Description: PDI-140RAB-00-10-191108

	# 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	7.14e5	1.27e6	1.61	NO	0.763	1.006	35.94	35.93	0.996	0.996	NO	731	73.6	4.47	
2	47 13C12-4,4'-DDE	5.19e5	1.27e6	1.58	NO	0.552	1.006	37.00	37.01	1.026	1.026	NO	734	73.8	6.18	
3	48 13C12-Dieldrin	6.86e4	1.27e6	1.52	NO	0.0749	1.006	37.50	37.50	1.039	1.039	NO	715	72.0	7.18	
4	50 13C10-cis-Nonachlor	3.60e4	1.27e6	1.53	NO	0.0389	1.006	39.19	39.21	1.087	1.086	NO	722	72.7	13.8	
5	52 13C12-2,4'-DDD	6.03e5	1.27e6	1.59	NO	0.588	1.006	38.10	38.15	1.461	1.459	NO	800	80.5	5.01	
6	53 13C12-2,4'-DDT	3.78e5	1.27e6	1.64	NO	0.370	1.006	39.23	39.28	1.504	1.502	NO	797	80.2	7.95	
7	54 13C12-4,4'-DDD	5.33e5	1.27e6	1.60	NO	0.473	1.006	39.35	39.41	1.509	1.507	NO	879	88.5	6.22	
8	55 13C12-4,4'-DDT	3.12e5	1.27e6	1.59	NO	0.280	1.006	40.41	40.48	1.550	1.547	NO	870	87.6	10.5	
9	62 13C-PCB-15	1.27e6	1.27e6	1.57	NO	1.00	1.006	26.18	26.12	1.000	1.000	NO	994	100	0.964	

Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:28:29 Pacific Standard Time

Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

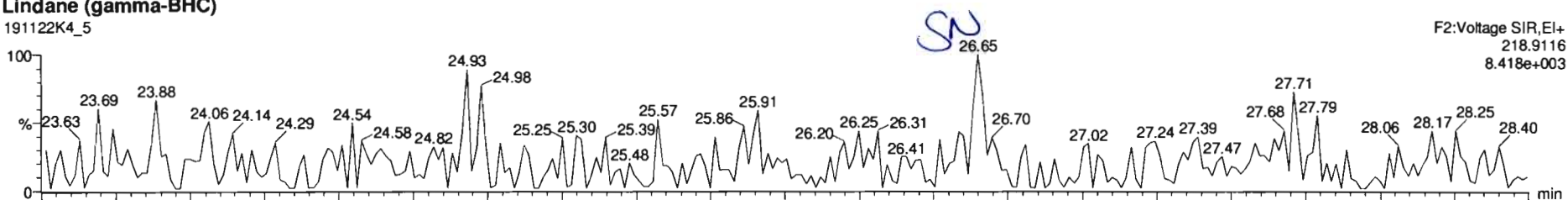
Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K4_5, Date: 23-Nov-2019, Time: 11:52:49, ID: 1904016-03 PDI-140RAB-00-10-191108 1, Description: PDI-140RAB-00-10-191108

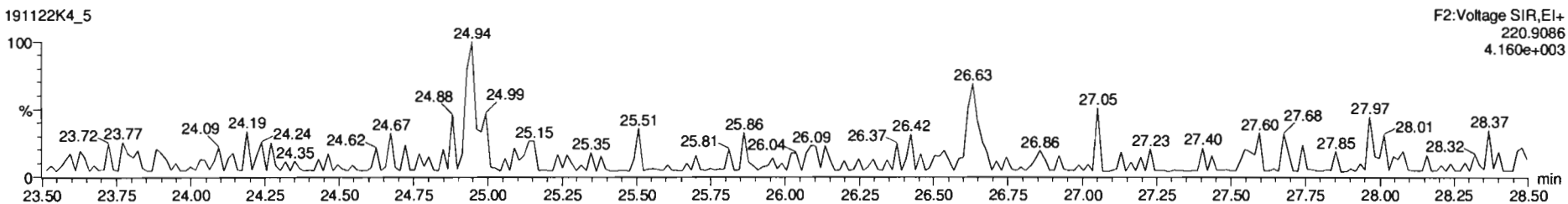
Lindane (gamma-BHC)

191122K4_5



F2:Voltage SIR,EI+
218.9116
8.418e+003

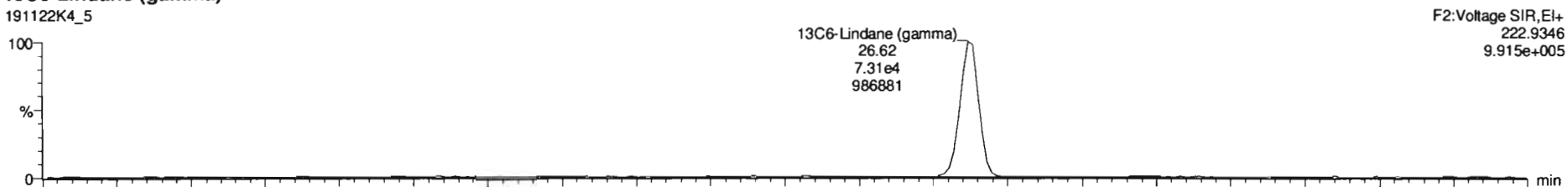
191122K4_5



F2:Voltage SIR,EI+
220.9086
4.160e+003

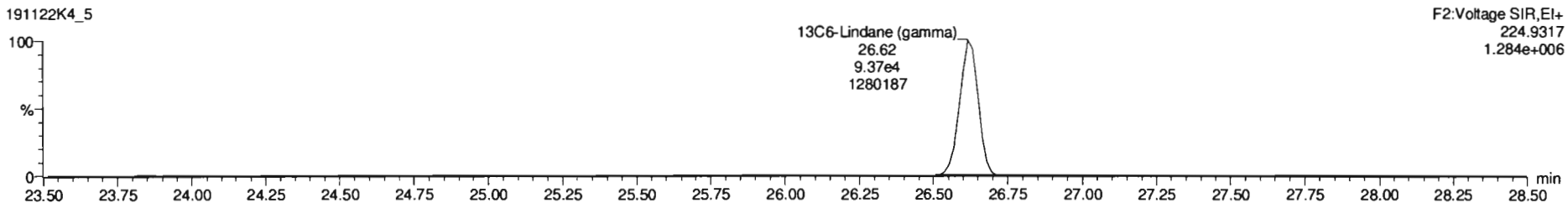
13C6-Lindane (gamma)

191122K4_5



F2:Voltage SIR,EI+
222.9346
9.915e+005

191122K4_5



F2:Voltage SIR,EI+
224.9317
1.284e+006

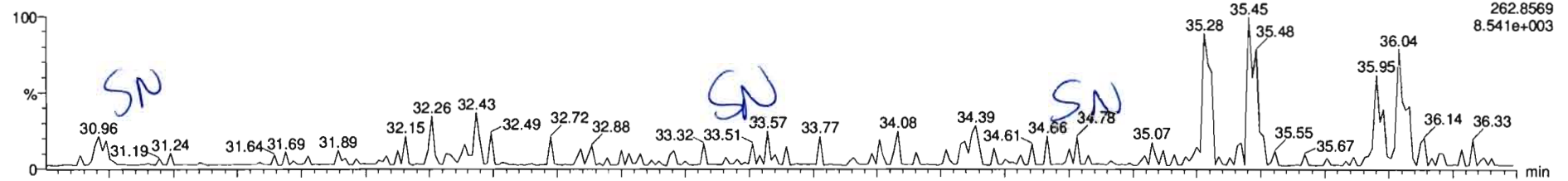
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Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

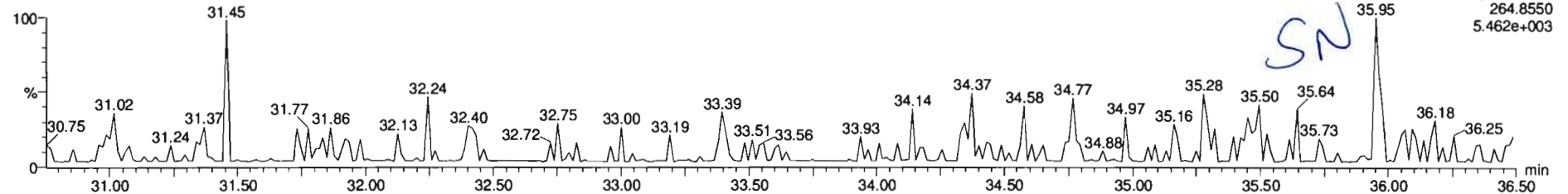
Name: 191122K4_5, Date: 23-Nov-2019, Time: 11:52:49, ID: 1904016-03 PDI-140RAB-00-10-191108 1, Description: PDI-140RAB-00-10-191108

Aldrin-EI

191122K4_5

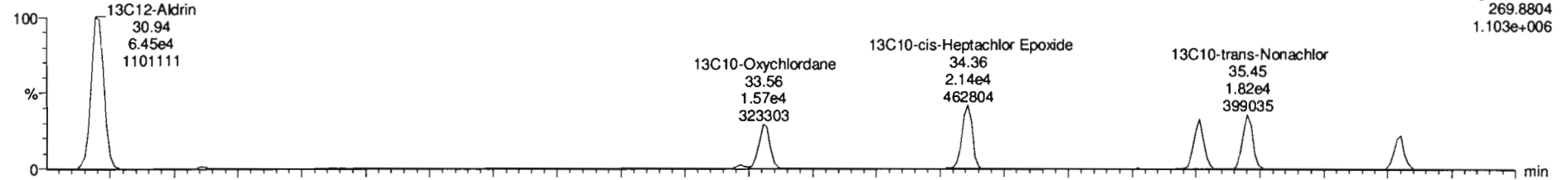


191122K4_5

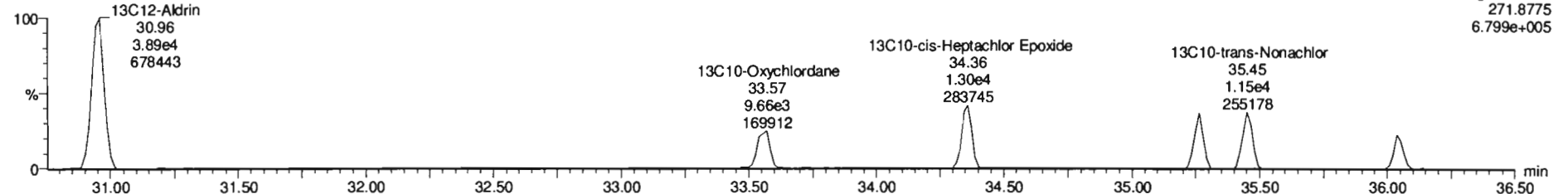


Aldrin-EI-isotopes

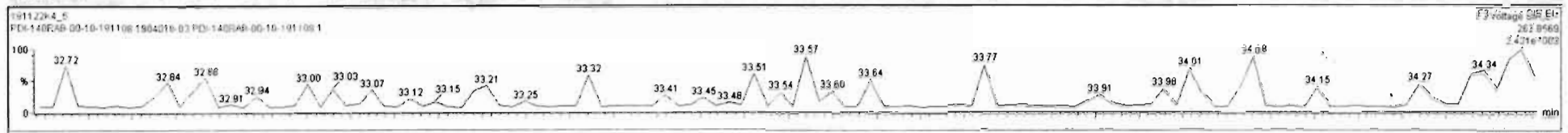
191122K4_5



191122K4_5



Name	Conc	DL	%Rec	EMPC	Abs Resp	RF	RT	#	ISF	RA	YM	RRT	Acq Date	Acq Time	1* Chr Noise D	Sample Text	Factor1	SPM	Cal File	
1 Hexachlorobutadiene	1135.12	3.18		320.961	1.883e4	0.179	10.23	1	33	0.186	YES	1.001	23-Nov-19	11:52:49	354.891	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
2 Hexachlorobenzene	17.9903	0.189		17.9903	9.444e3	0.874	22.83	2	34	1.232	NO	1.001	23-Nov-19	11:52:49	376.599	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
3 Alpha-BHC		3.66				0.760		3	35		NO		23-Nov-19	11:52:49	1027.117	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
4 Lindene (gamma-BHC)		5.81				0.744		4	36		NO		23-Nov-19	11:52:49	1027.117	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
5 Beta-BHC		5.23				0.896		5	37		NO		23-Nov-19	11:52:49	1027.117	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
6 Delta-BHC		4.46				0.837		6	38		NO		23-Nov-19	11:52:49	1027.117	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
7 Heptachlor		2.55				0.968		7	39		NO		23-Nov-19	11:52:49	842.411	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
8 4,4'-DDMU	3.84926	6.86		0.000000	7.275e2	1.266	30.42	8	38		NO	1.001	23-Nov-19	11:52:49	4777.509	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
9 Aldrin		3.54				1.024		9	40		NO		23-Nov-19	11:52:49	1105.022	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
10 Oxychlordane		12.5				0.992		10	41		NO		23-Nov-19	11:52:49	1105.022	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
11 cis-Heptachlor Epoxide		6.58				1.003		11	42		NO		23-Nov-19	11:52:49	1105.022	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
12 trans-Heptachlor Epoxide		33.7				0.255		12	42		NO		23-Nov-19	11:52:49	1105.022	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
13 trans-Chlordane (gamma)		9.85				1.084		13	43		NO		23-Nov-19	11:52:49	1105.022	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
14 trans-Nonachlor		9.81				1.002		14	44		NO		23-Nov-19	11:52:49	1105.022	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
15 cis-Chlordane		10.0				0.981		15	44		NO		23-Nov-19	11:52:49	1105.022	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
16 Endosulfan I (alpha)		14.8				1.106		16	45		NO		23-Nov-19	11:52:49	1105.022	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...
17 4,4'-DDMU	16.0233	2.90		16.0233	7.104e3	0.617	35.72	17	46	2.581	NO	0.994	23-Nov-19	11:52:49	4025.825	1904016-03	PDI-140RAB-00-10-191108-1	1.0	1.01	db_50...



Dataset: Untitled

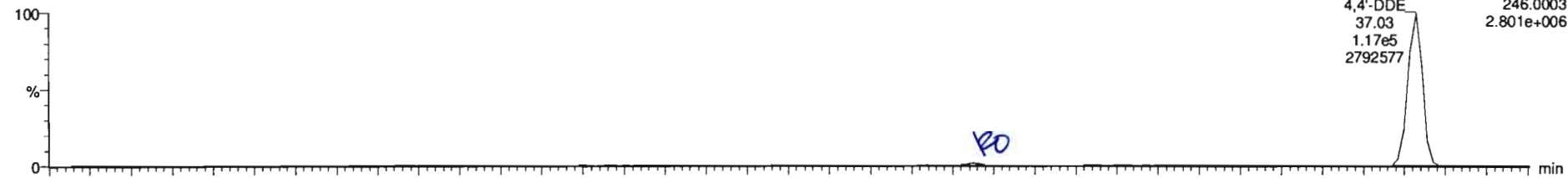
Last Altered: Monday, November 25, 2019 11:28:29 Pacific Standard Time

Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

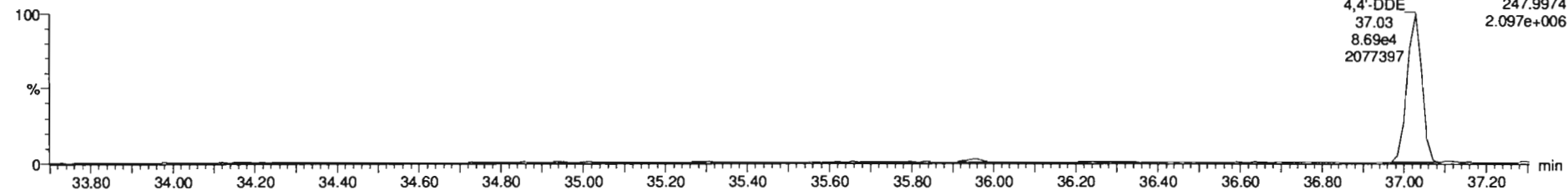
Name: 191122K4_5, Date: 23-Nov-2019, Time: 11:52:49, ID: 1904016-03 PDI-140RAB-00-10-191108 1, Description: PDI-140RAB-00-10-191108

DDMU-DDE

191122K4_5

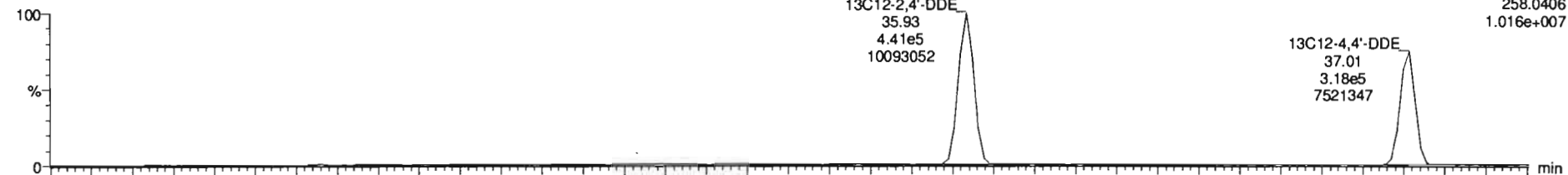


191122K4_5

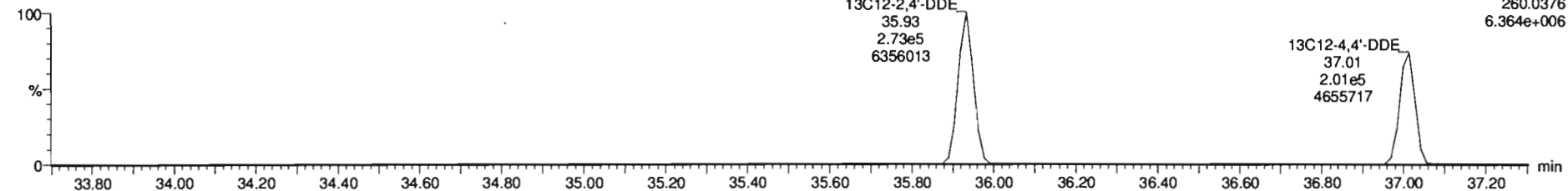


DDE-isotopes

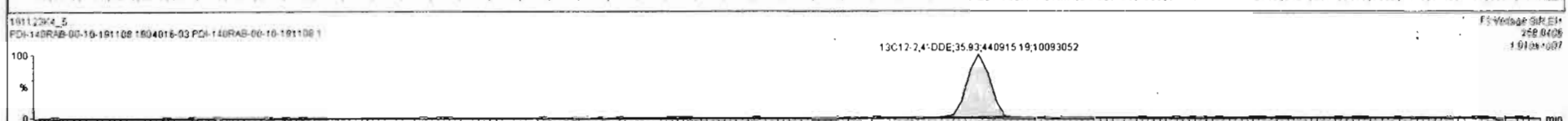
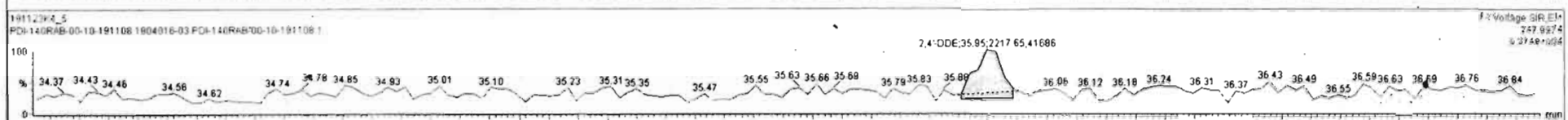
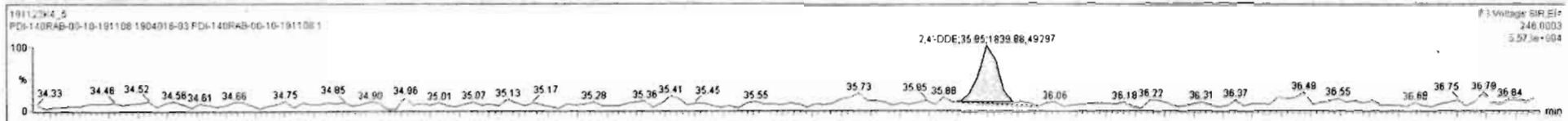
191122K4_5



191122K4_5



#	Name	Resp	IS Resp	ISF	RA	nly	RRF	wtAvol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
10	Oryzchloridene	2.50e4	41			NO	0.9924	1.006	33.58			1.001	YES			17.5	
11	cis-Heptachlor Epoxide	3.43e4	42			NO	1.0028	1.006	34.38			1.001	YES			8.58	
12	trans-Heptachlor Epoxide	3.43e4	42			NO	0.2550	1.006	34.87			1.015	YES			33.7	
13	trans-Chlordane (gamn)	2.62e4	43			NO	1.0836	1.006	35.28			1.001	YES			9.85	
14	trans-Nonachlor	2.97e4	44			NO	1.0022	1.006	35.47			1.001	YES			9.81	
15	cis-Chlordane	2.97e4	44			NO	0.9810	1.006	35.96			1.014	YES			10.0	
16	Endosulfan I (alpha)	1.77e4	45			NO	1.1062	1.006	36.07			1.001	YES			14.8	
17	4,4'-DDMJ	7.10e3	7.14e5	46	2.56	NO	0.6167	1.006	35.72	35.72	0.994	0.994	NO	16.0		2.90	16.0
18	2,4'-DDE	4.06e3	7.14e5	46	0.83	YES	0.8542	1.006	35.94	35.95	1.000	1.000	NO	6.61		2.46	4.92
19	4,4'-DDE	2.04e5	5.19e5	47	1.35	NO	0.8728	1.006	37.03	37.03	1.000	1.000	NO	448		3.20	446
20	Dieldrin	6.86e4	48			NO	0.9570	1.006	37.52			1.000	YES			5.21	
21	Endrin	4.19e4	49			NO	0.9326	1.006	38.91			1.000	YES			8.14	
22	cis-Nonachlor	3.60e4	50			NO	0.9556	1.006	39.22			1.000	YES			9.21	
23	Endosulfan I (beta)	9.92e3	51			NO	1.0639	1.006	39.93			1.000	YES			32.4	
24	2,4'-DDD	1.93e4	6.03e5	52	1.55	NO	0.9153	1.006	38.15	38.17	1.000	1.000	NO	34.8		4.38	34.8
25	2,4'-DDT	2.98e4	3.78e5	53	1.44	NO	0.9205	1.006	39.30	39.29	1.000	1.000	NO	85.0		6.86	85.0
26	4,4'-DDD	7.08e4	5.33e5	54	1.54	NO	1.0039	1.006	39.43	39.43	1.000	1.000	NO	132		4.24	132

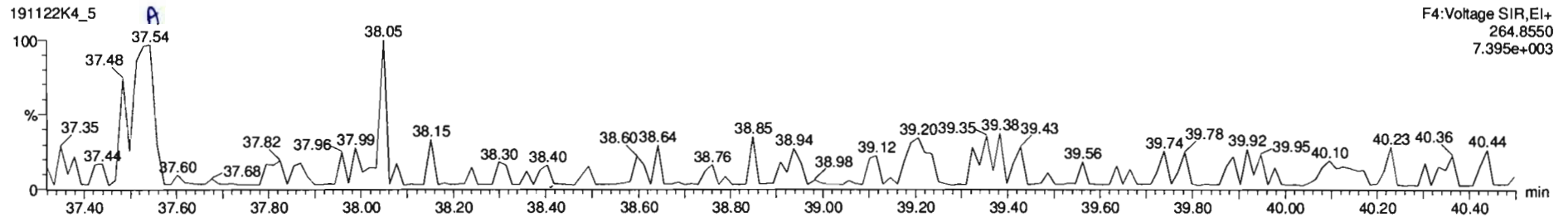
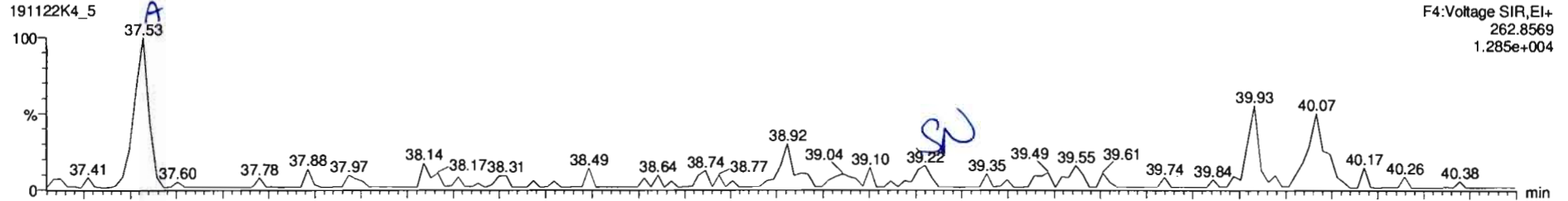


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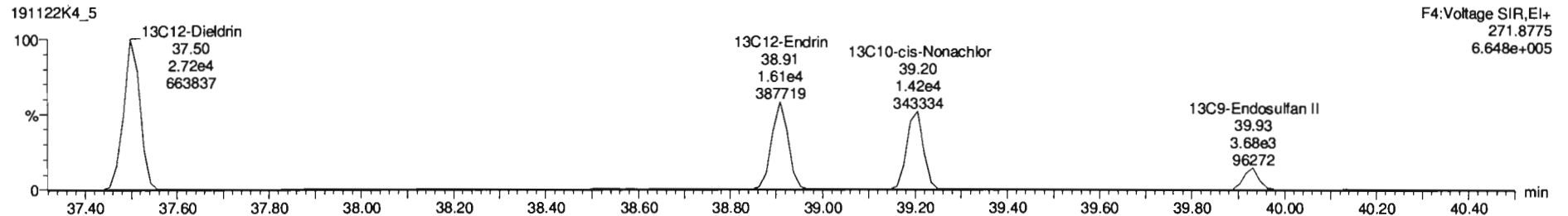
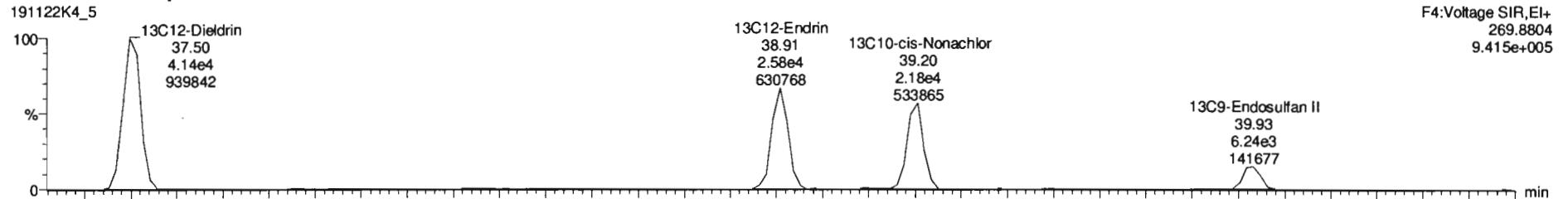
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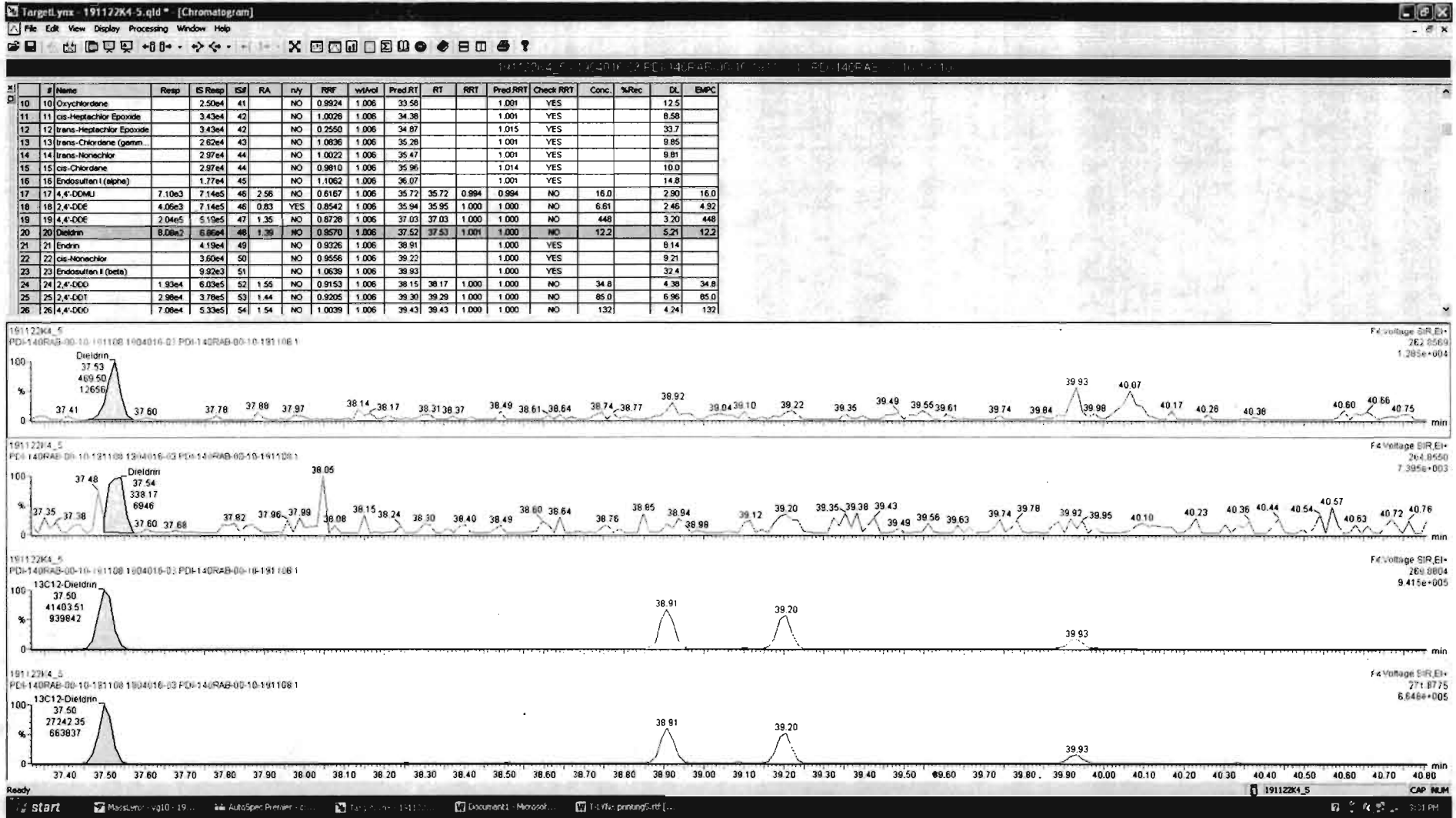
Name: 191122K4_5, Date: 23-Nov-2019, Time: 11:52:49, ID: 1904016-03 PDI-140RAB-00-10-191108 1, Description: PDI-140RAB-00-10-191108

Dieldrin-EII



Dieldrin-EII-isotopes





Dataset: Untitled

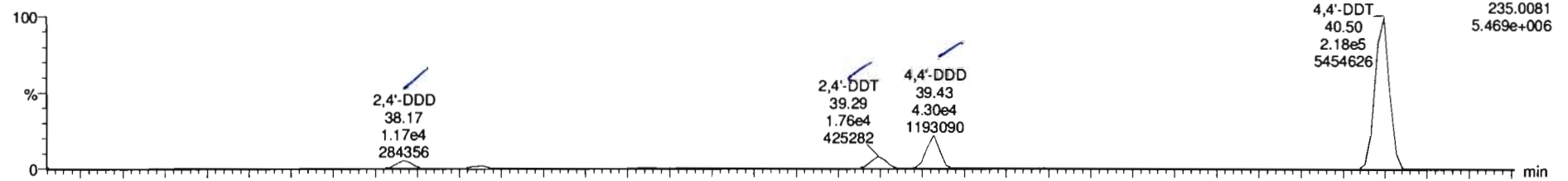
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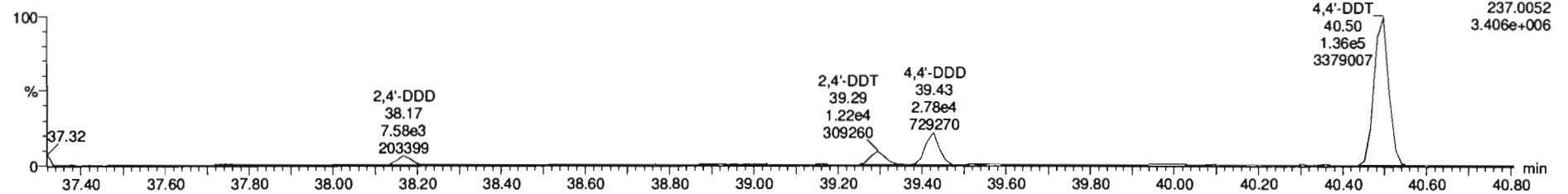
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DDD-DDT

191122K4_5

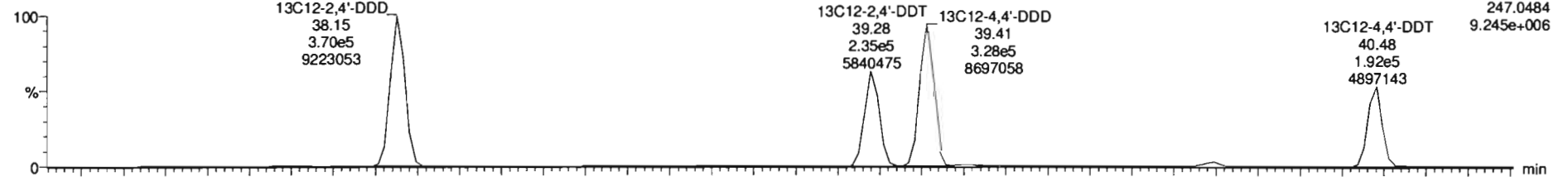


191122K4_5

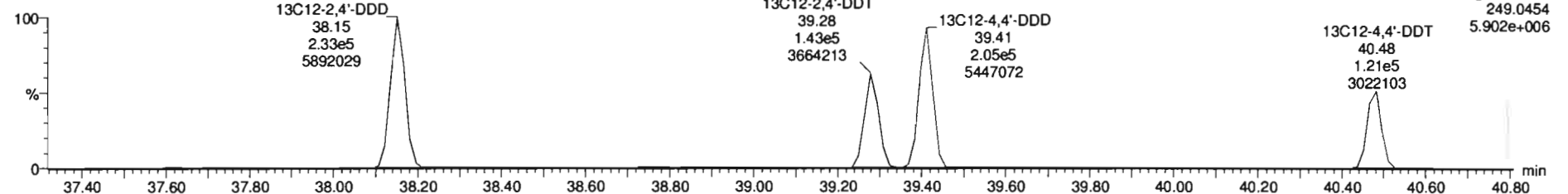


DDD-DDT-isotopes

191122K4_5



191122K4_5



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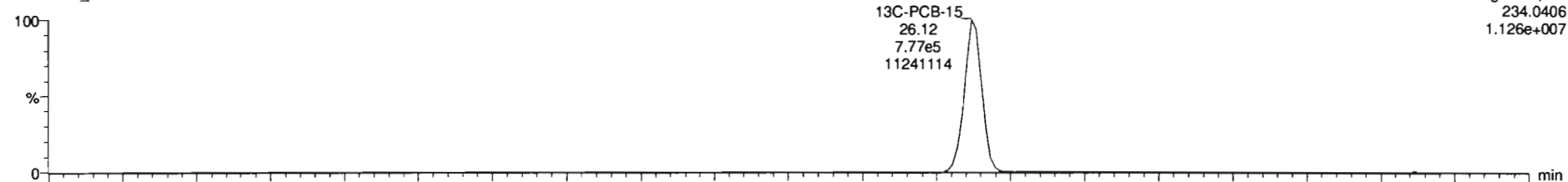
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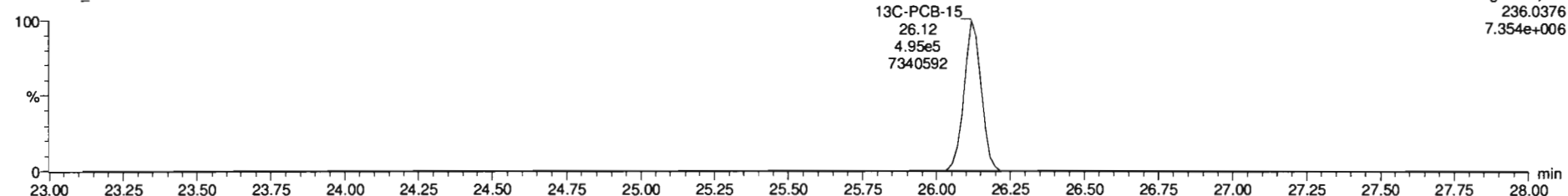
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13C-PCB-15

191122K4_5

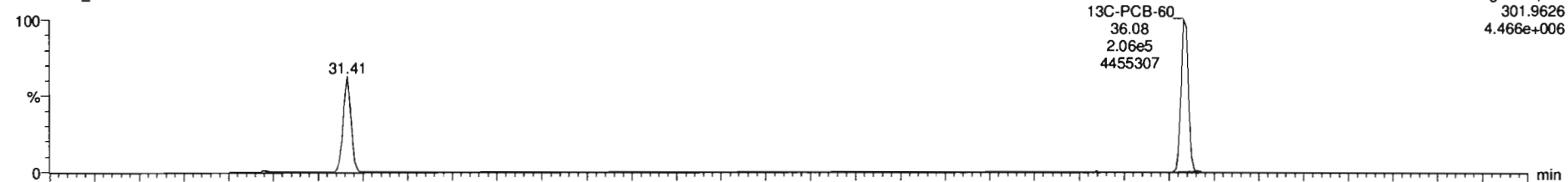


191122K4_5

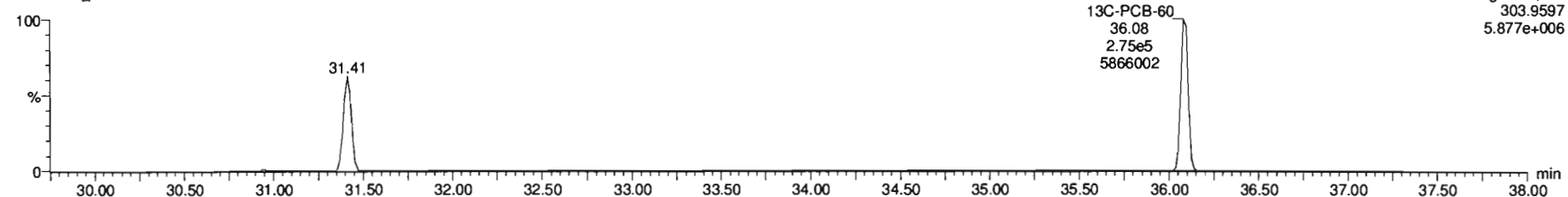


13C-PCB-60

191122K4_5



191122K4_5



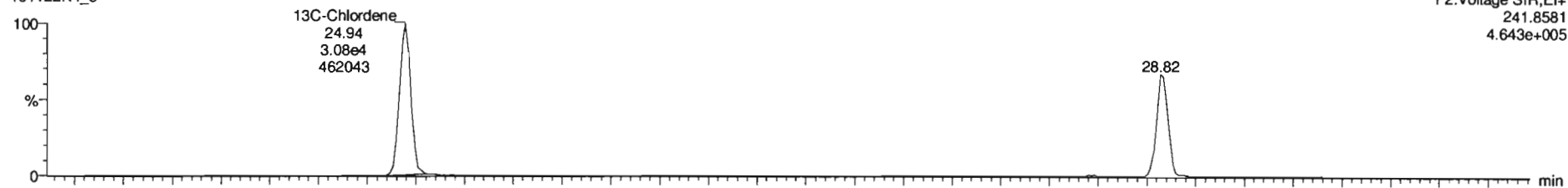
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Last Altered: Monday, November 25, 2019 11:28:29 Pacific Standard Time
Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

Name: 191122K4_5, Date: 23-Nov-2019, Time: 11:52:49, ID: 1904016-03 PDI-140RAB-00-10-191108 1, Description: PDI-140RAB-00-10-191108

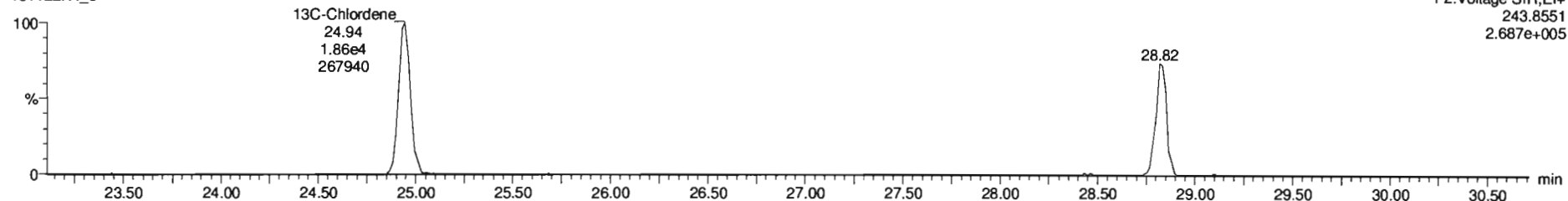
13C-Chlordene

191122K4_5



F2:Voltage SIR,EI+
241.8581
4.643e+005

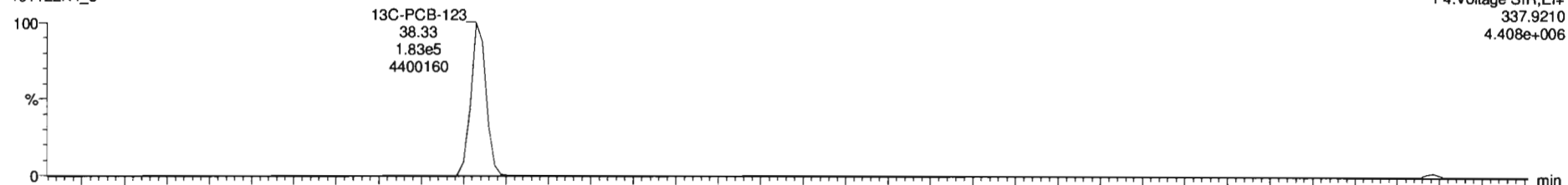
191122K4_5



F2:Voltage SIR,EI+
243.8551
2.687e+005

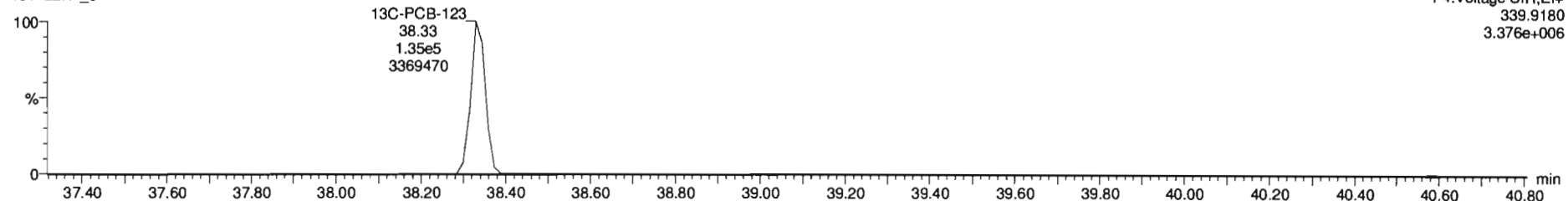
13C-PCB-123

191122K4_5



F4:Voltage SIR,EI+
337.9210
4.408e+006

191122K4_5

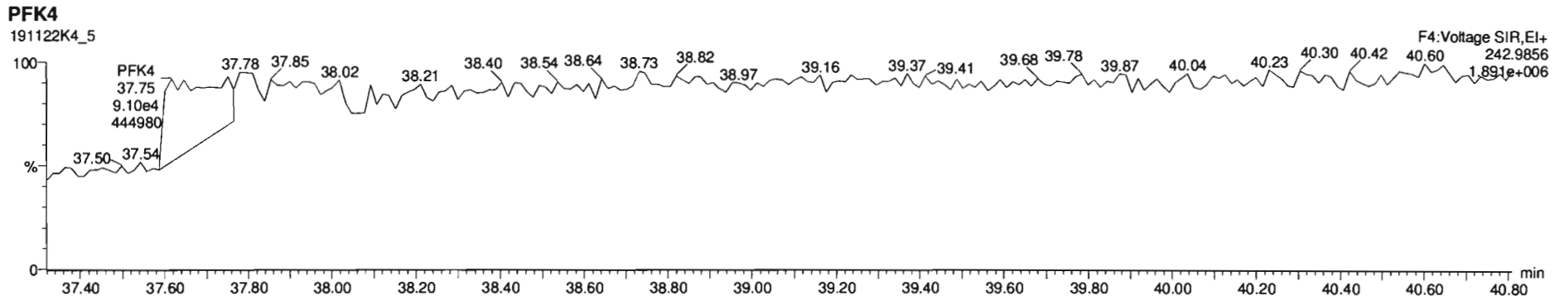
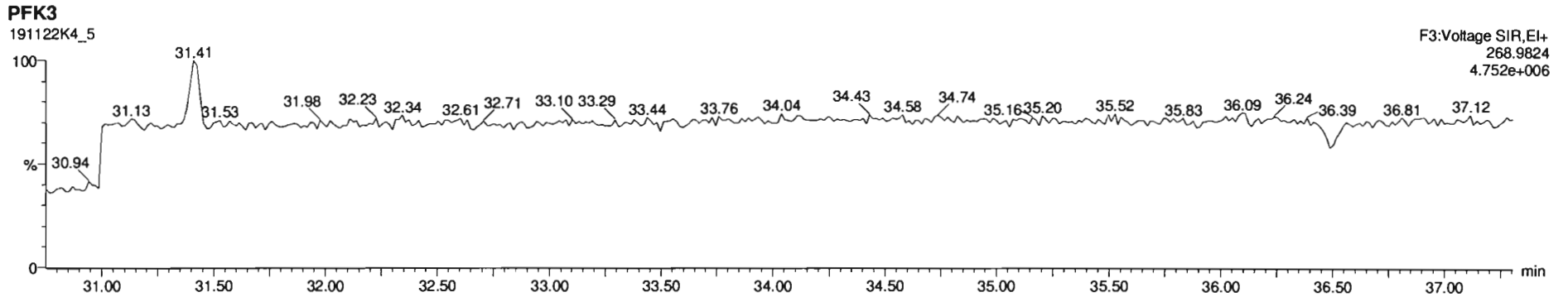
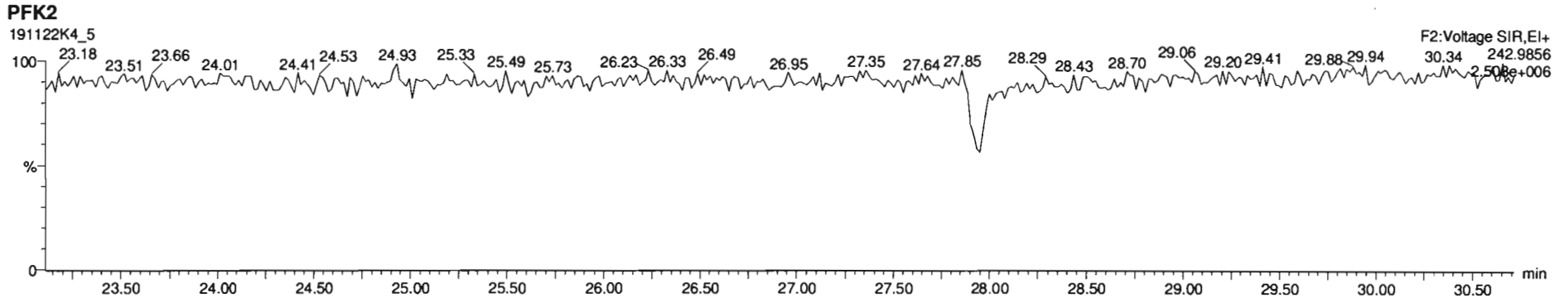


F4:Voltage SIR,EI+
339.9180
3.376e+006

Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:28:29 Pacific Standard Time
Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

Name: 191122K4_5, Date: 23-Nov-2019, Time: 11:52:49, ID: 1904016-03 PDI-140RAB-00-10-191108 1, Description: PDI-140RAB-00-10-191108



Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191122K4\191122K4-6.qld

Last Altered: Tuesday, November 26, 2019 15:37:15 Pacific Standard Time

Printed: Tuesday, November 26, 2019 15:37:53 Pacific Standard Time

GRB 11/26/19 2/6/20

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

LT 02/07/2020

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K4_6, Date: 23-Nov-2019, Time: 12:42:23, ID: 1904016-04 PDI-140RAB-10-12.7-191108 1, Description: PDI-140RAB-10-12.7-191108

#	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)		3.09e5		NO	0.744	1.014	26.66			1.001	YES			3.22	
2	9 Aldrin		1.87e5		NO	1.02	1.014	30.99			1.001	YES			2.00	
3	10 Oxychlordan		4.52e4		NO	0.992	1.014	33.59			1.001	YES			6.96	
4	13 trans-Chlordane (gam...	9.26e2	4.48e4	1.15	YES	1.08	1.014	35.30	35.31	1.001	1.001	NO	18.8		5.87	16.5
5	14 trans-Nonachlor	9.19e2	4.95e4	1.54	NO	1.00	1.014	35.49	35.49	1.001	1.001	NO	18.3		5.81	18.3
6	15 cis-Chlordane	1.05e3	4.95e4	1.28	NO	0.981	1.014	35.97	35.98	1.014	1.014	NO	21.4		5.93	21.4
7	18 2,4'-DDE	6.95e3	1.19e6	1.18	NO	0.854	1.014	35.96	35.96	1.000	1.000	NO	6.74		1.74	6.74
8	19 4,4'-DDE	1.99e5	8.77e5	1.33	NO	0.873	1.014	37.03	37.04	1.001	1.000	NO	257		2.29	257
9	20 Dieldrin	1.81e3	1.20e5	1.31	NO	0.957	1.014	37.53	37.54	1.001	1.000	NO	15.5		3.85	15.5
10	22 cis-Nonachlor		6.35e4		NO	0.956	1.014	39.22			1.000	YES			8.24	

Dataset: U:\VG11.PRO\Results\191122K4\191122K4-6.qld

Last Altered: Tuesday, November 26, 2019 15:37:15 Pacific Standard Time

Printed: Tuesday, November 26, 2019 15:37:47 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: 191122K4_6, Date: 23-Nov-2019, Time: 12:42:23, ID: 1904016-04 PDI-140RAB-10-12.7-191108 1, Description: PDI-140RAB-10-12.7-191108

	# 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	3.91e4	1.16e6	1.59	NO	0.915	1.014	38.17	38.18	1.000	1.000	NO	36.3		2.42	36.3
2	25 2,4'-DDT	5.75e4	7.24e5	1.64	NO	0.921	1.014	39.31	39.31	1.000	1.000	NO	85.1		3.75	85.1
3	26 4,4'-DDD	1.30e5	9.90e5	1.61	NO	1.00	1.014	39.43	39.44	1.001	1.000	NO	129		2.65	129
4	27 4,4'-DDT	5.16e5	6.08e5	1.59	NO	0.986	1.014	40.52	40.49	1.000	1.000	NO	848		4.47	848
5	36 13C6-Lindane (gamma)	3.09e5	1.86e6	0.78	NO	0.189	1.014	26.64	26.63	1.019	1.020	NO	865	87.8	3.53	
6	40 13C12-Aldrin	1.87e5	1.86e6	1.71	NO	0.122	1.014	30.95	30.96	1.185	1.184	NO	816	82.7	2.45	
7	41 13C10-Oxychlorane	4.52e4	1.86e6	1.57	NO	0.0283	1.014	33.55	33.57	1.284	1.284	NO	845	85.7	10.5	
8	43 13C10-trans-Chlordan...	4.48e4	1.86e6	1.61	NO	0.0292	1.014	35.25	35.28	1.350	1.349	NO	812	82.4	10.2	
9	44 13C10-trans-Nonachlor	4.95e4	1.86e6	1.56	NO	0.0333	1.014	35.44	35.47	1.357	1.356	NO	784	79.5	8.92	

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191122K4\191122K4-6.qld

Last Altered: Tuesday, November 26, 2019 15:37:15 Pacific Standard Time

Printed: Tuesday, November 26, 2019 15:37:41 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: 191122K4_6, Date: 23-Nov-2019, Time: 12:42:23, ID: 1904016-04 PDI-140RAB-10-12.7-191108 1, Description: PDI-140RAB-10-12.7-191108

	# 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	1.19e6	1.86e6	1.60	NO	0.763	1.014	35.95	35.95	0.996	0.996	NO	825	83.6	3.44	
2	47 13C12-4,4'-DDE	8.77e5	1.86e6	1.57	NO	0.552	1.014	37.01	37.01	1.025	1.026	NO	840	85.2	4.76	
3	48 13C12-Dieldrin	1.20e5	1.86e6	1.57	NO	0.0749	1.014	37.51	37.51	1.039	1.039	NO	849	86.1	6.51	
4	50 13C10-cis-Nonachlor	6.35e4	1.86e6	1.62	NO	0.0389	1.014	39.20	39.20	1.086	1.086	NO	863	87.5	12.5	
5	52 13C12-2,4'-DDD	1.16e6	1.86e6	1.60	NO	0.588	1.014	38.12	38.17	1.460	1.459	NO	1040	106	4.09	
6	53 13C12-2,4'-DDT	7.24e5	1.86e6	1.62	NO	0.370	1.014	39.25	39.29	1.504	1.502	NO	1030	105	6.50	
7	54 13C12-4,4'-DDD	9.90e5	1.86e6	1.63	NO	0.473	1.014	39.37	39.41	1.508	1.507	NO	1110	112	5.09	
8	55 13C12-4,4'-DDT	6.08e5	1.86e6	1.60	NO	0.280	1.014	40.44	40.49	1.550	1.547	NO	1150	116	8.59	
9	62 13C-PCB-15	1.86e6	1.86e6	1.59	NO	1.00	1.014	26.18	26.13	1.000	1.000	NO	986	100	0.753	

Dataset: Untitled

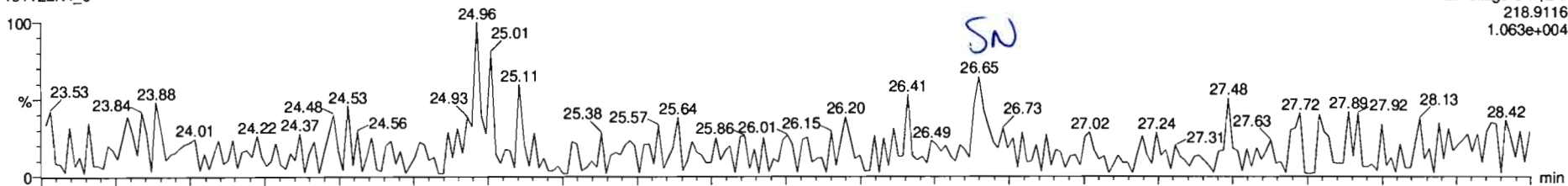
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Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

Name: 191122K4_6, Date: 23-Nov-2019, Time: 12:42:23, ID: 1904016-04 PDI-140RAB-10-12.7-191108 1, Description: PDI-140RAB-10-12.7-191108

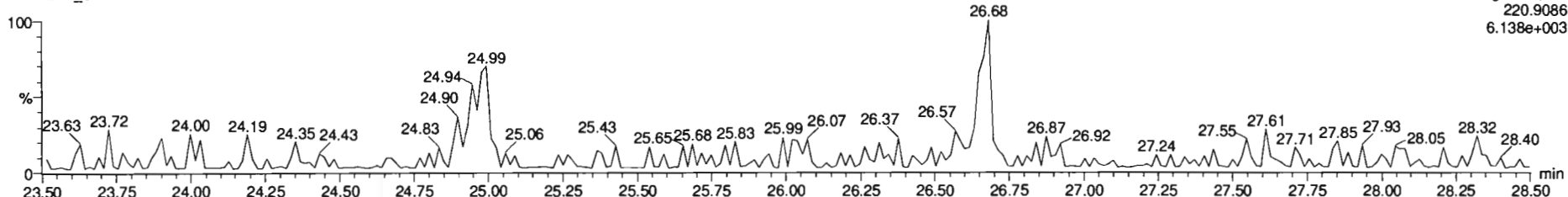
Lindane (gamma-BHC)

191122K4_6



F2:Voltage SIR,EI+
218.9116
1.063e+004

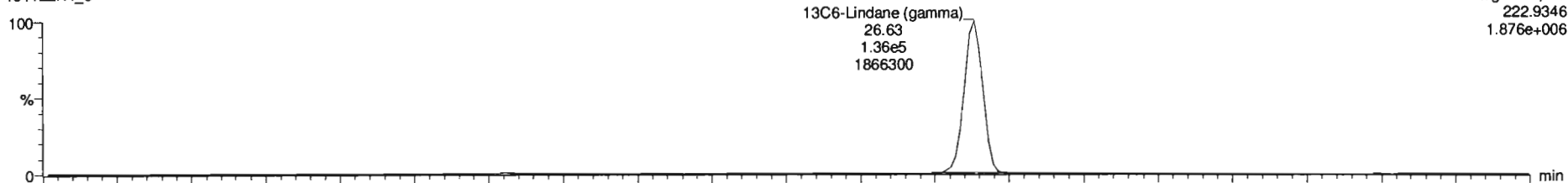
191122K4_6



F2:Voltage SIR,EI+
220.9086
6.138e+003

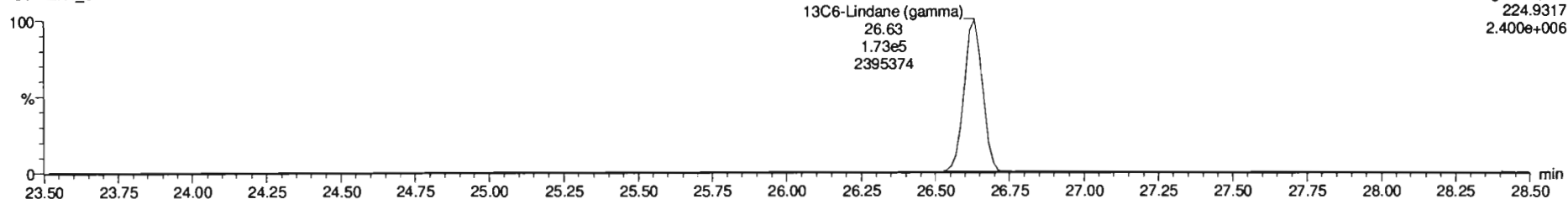
13C6-Lindane (gamma)

191122K4_6



F2:Voltage SIR,EI+
222.9346
1.876e+006

191122K4_6



F2:Voltage SIR,EI+
224.9317
2.400e+006

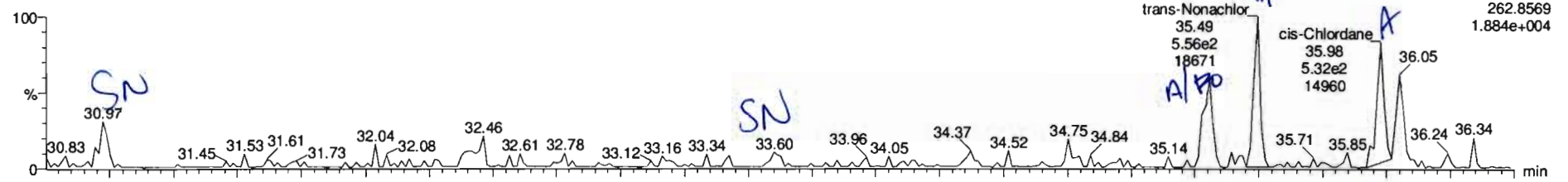
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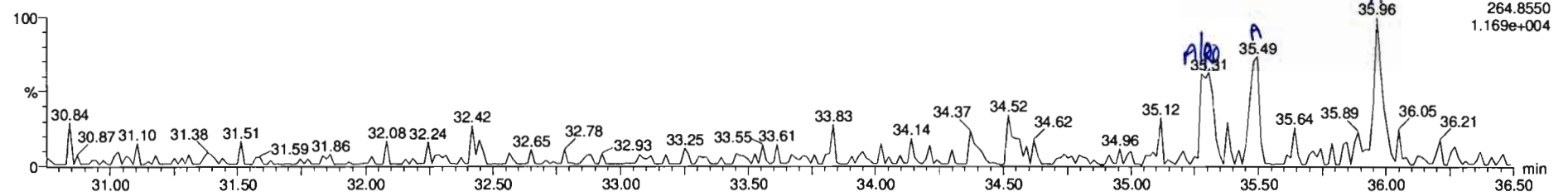
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Aldrin-EI

191122K4_6

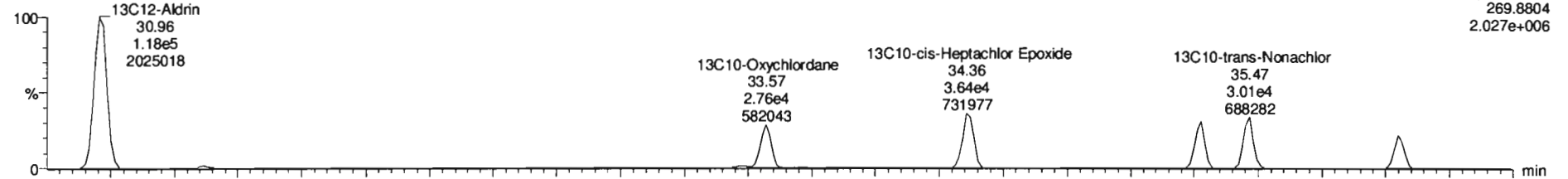


191122K4_6

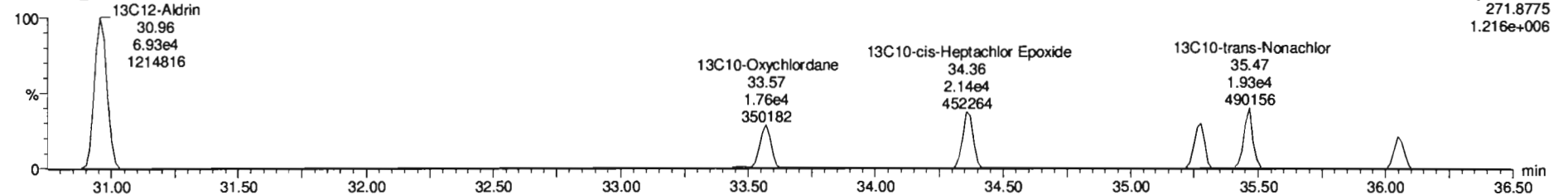


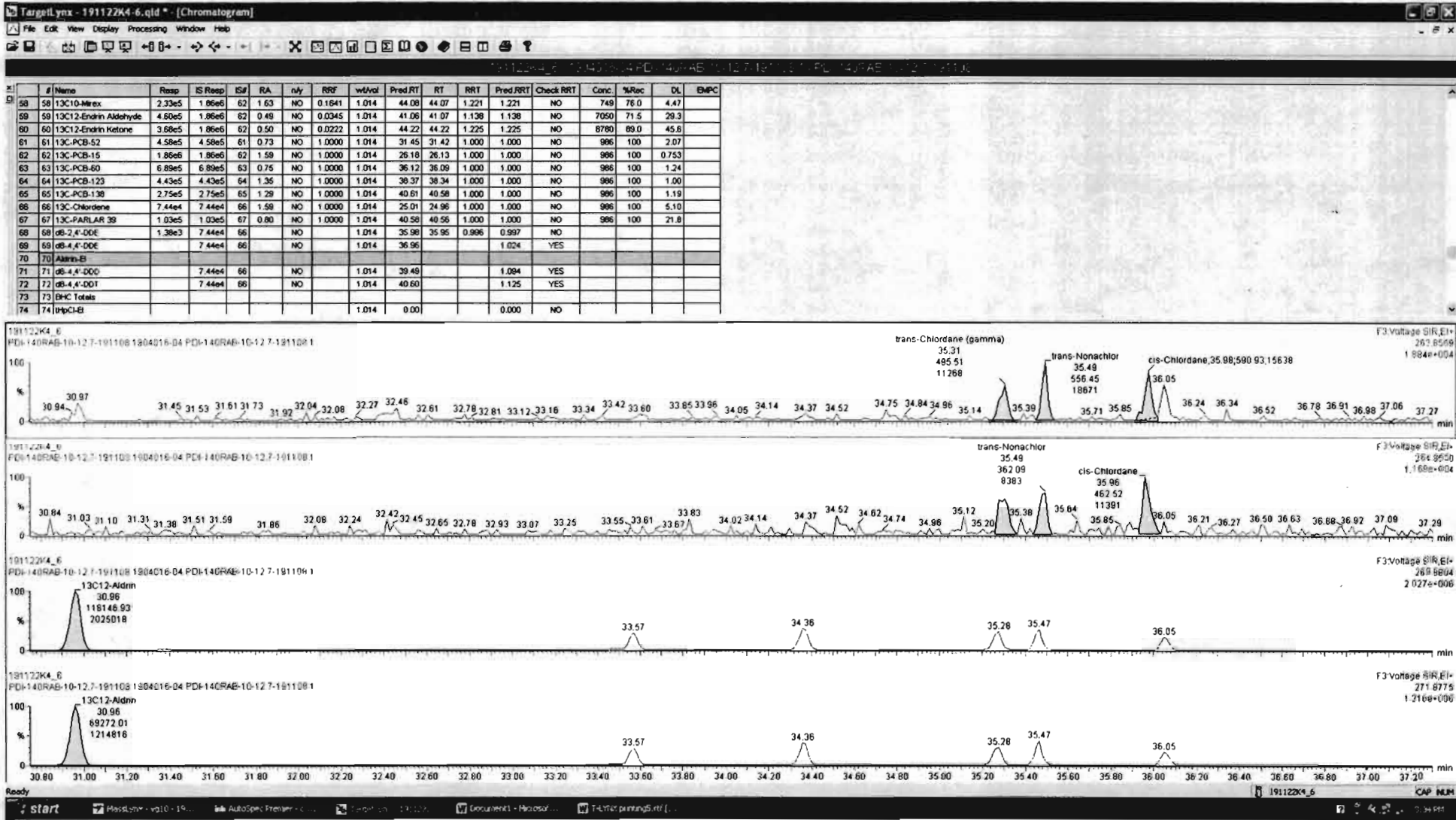
Aldrin-EI-isotopes

191122K4_6



191122K4_6





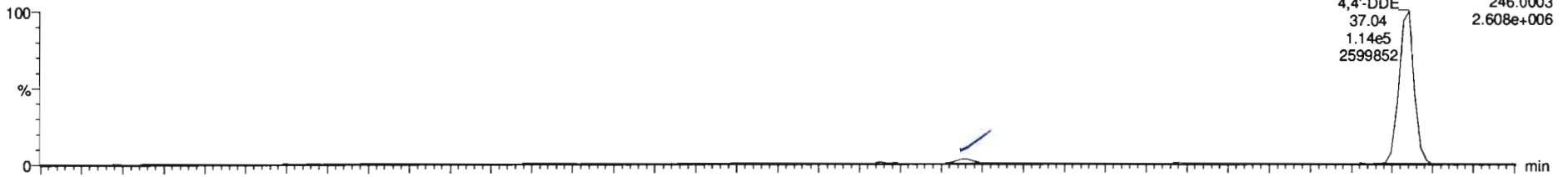
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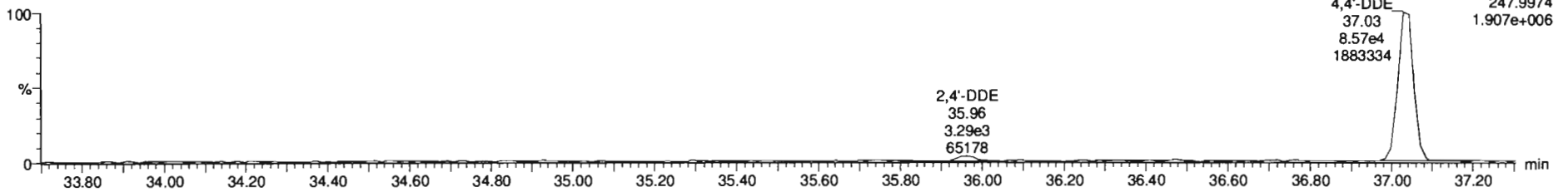
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DDMU-DDE

191122K4_6

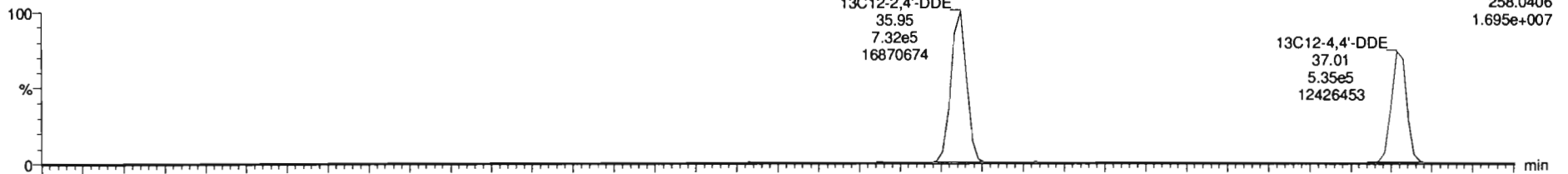


191122K4_6

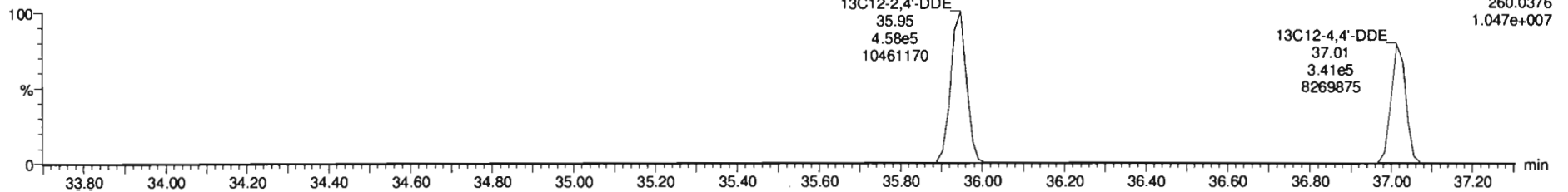


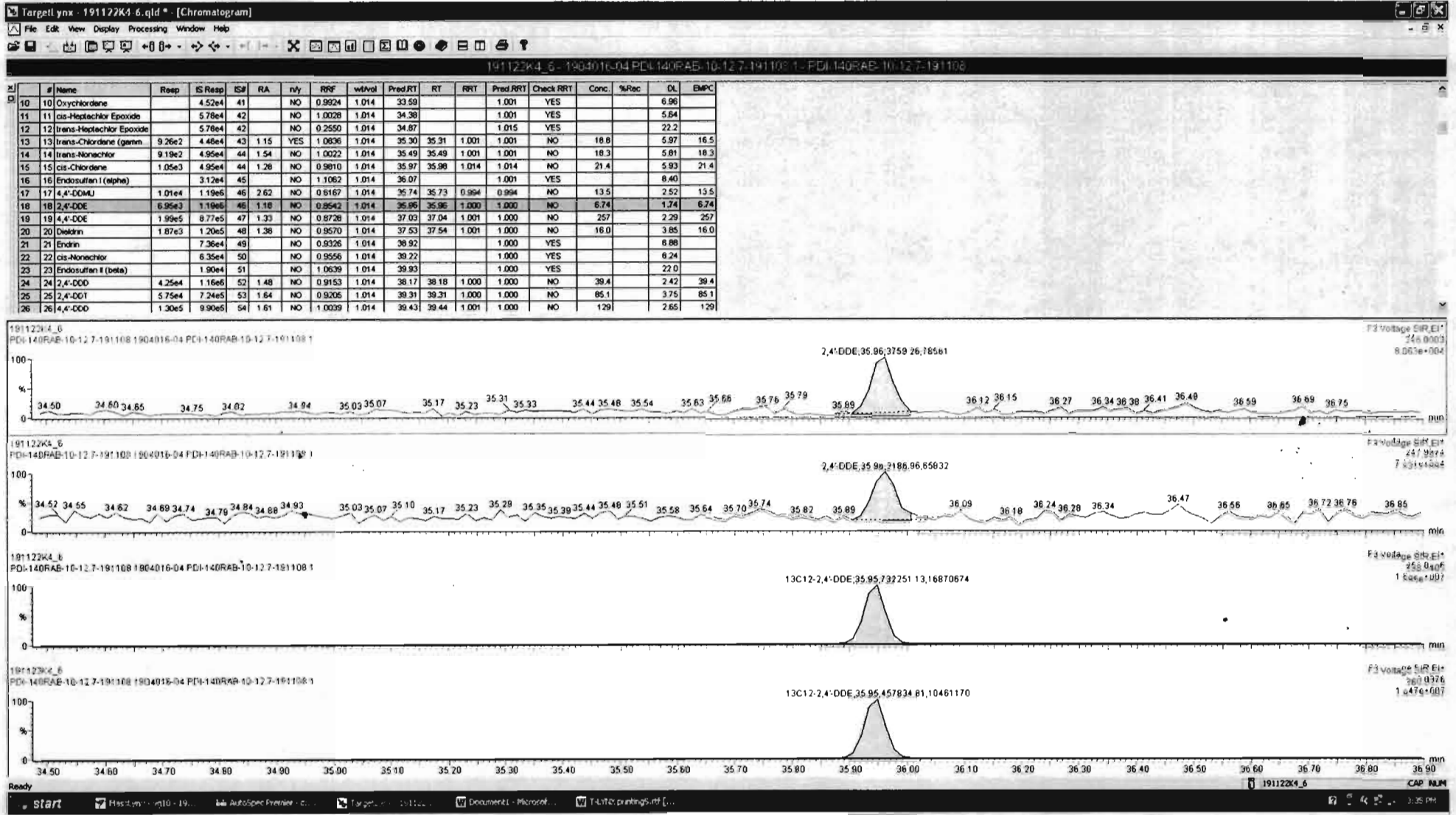
DDE-isotopes

191122K4_6



191122K4_6



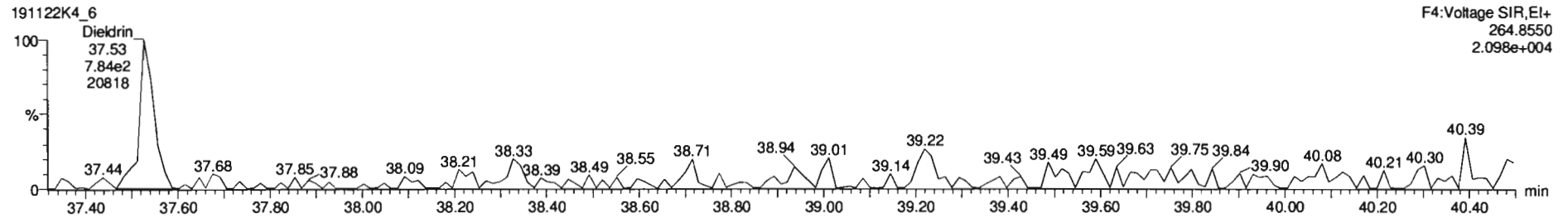
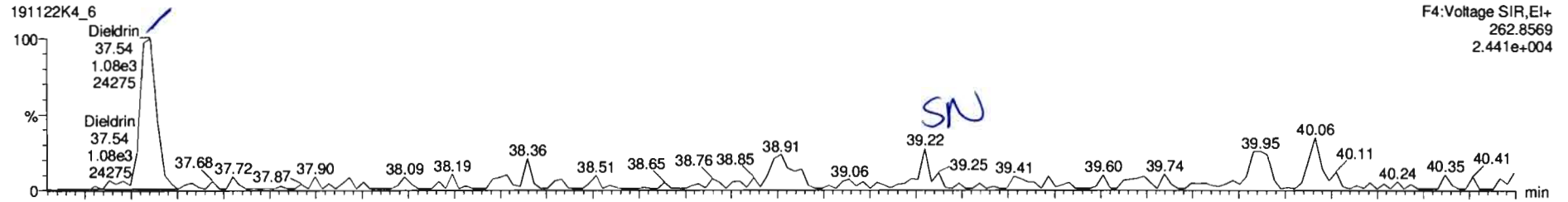


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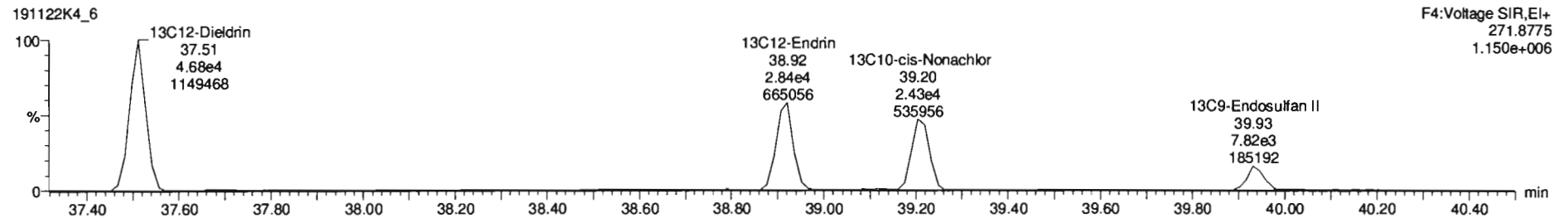
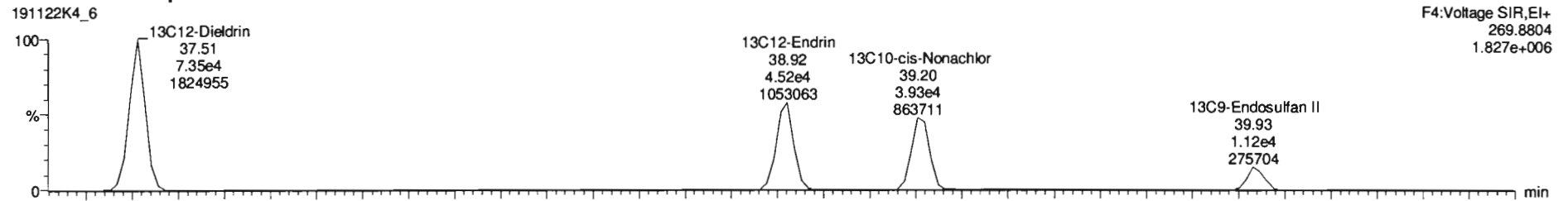
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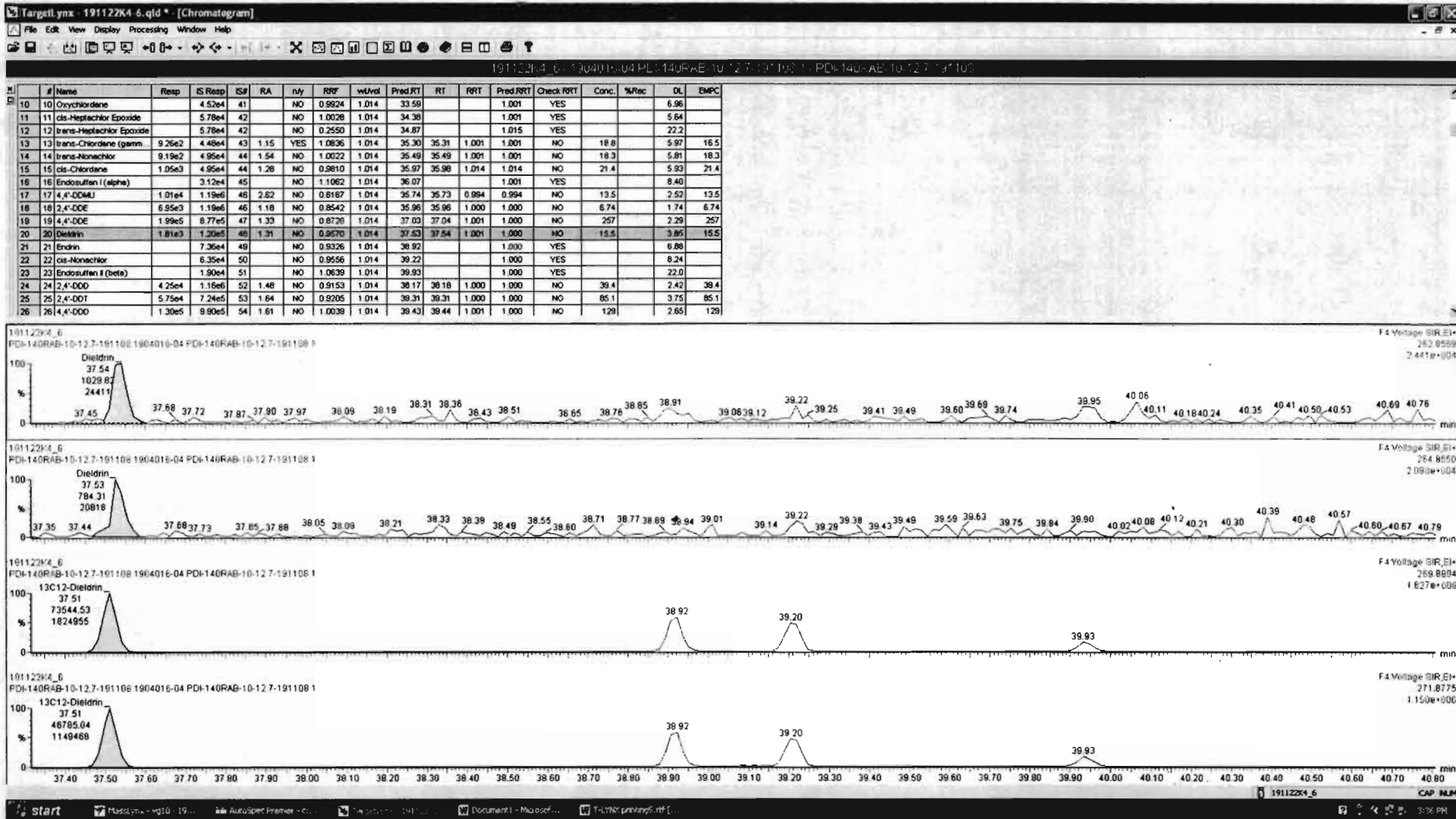
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Dieldrin-EII



Dieldrin-EII-isotopes





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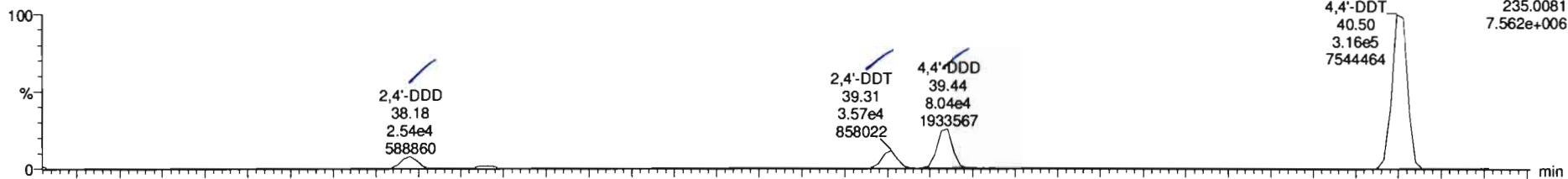
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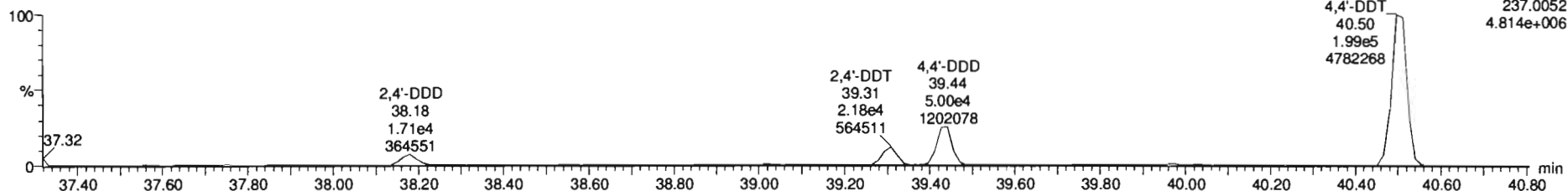
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DDD-DDT

191122K4_6

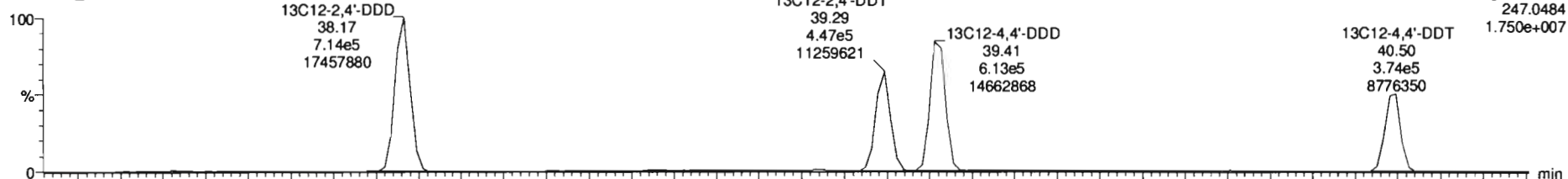


191122K4_6

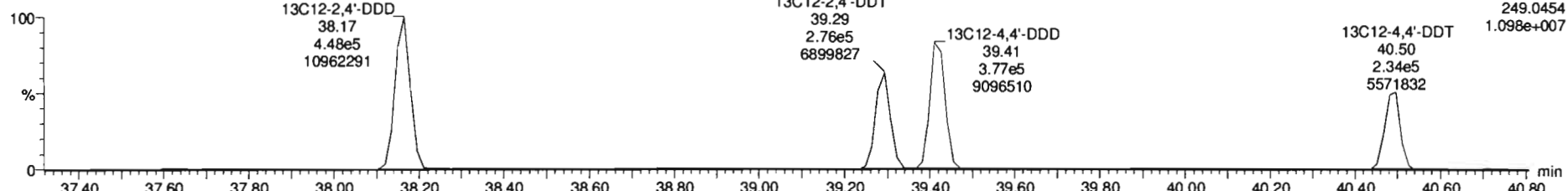


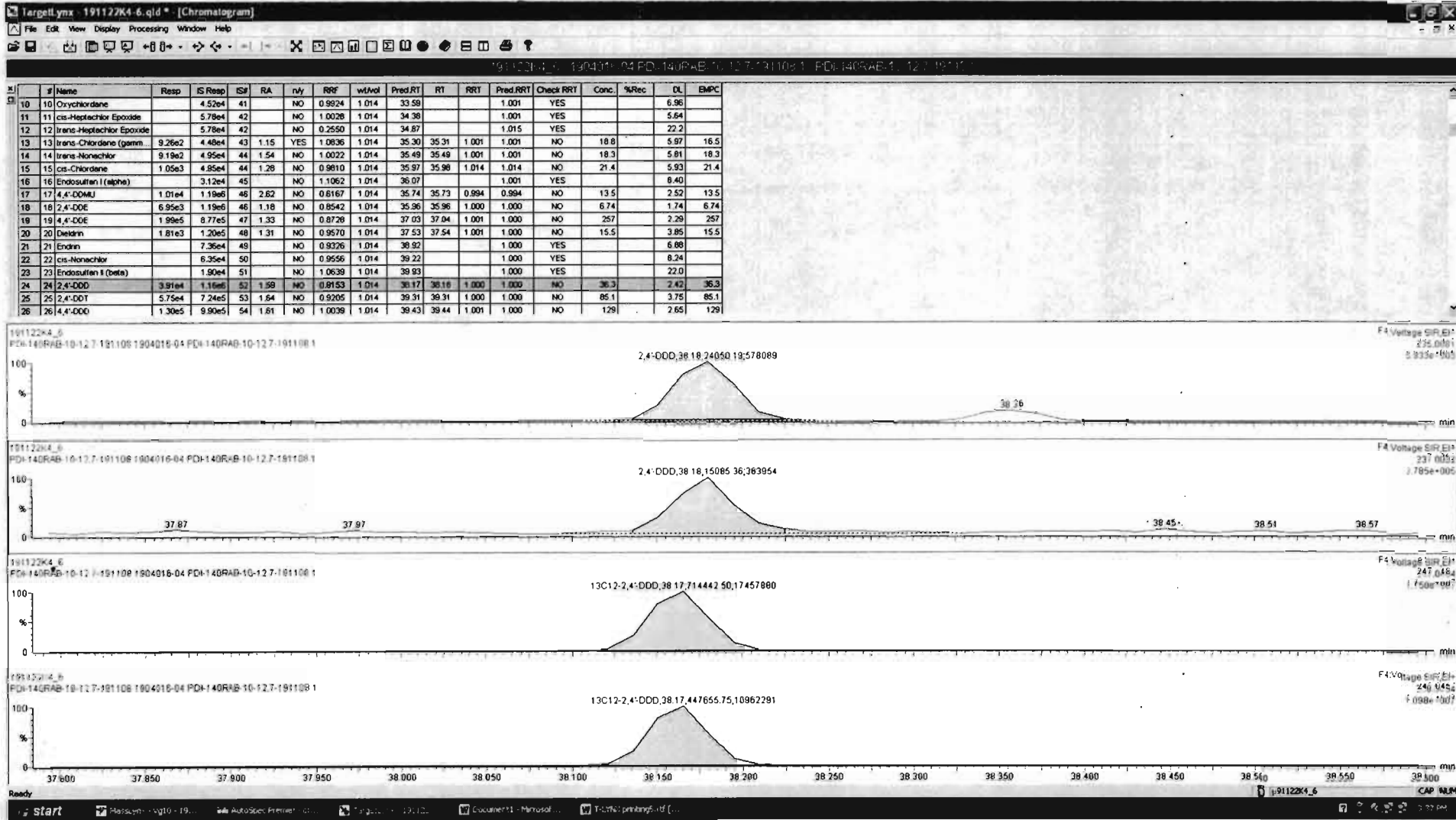
DDD-DDT-isotopes

191122K4_6



191122K4_6





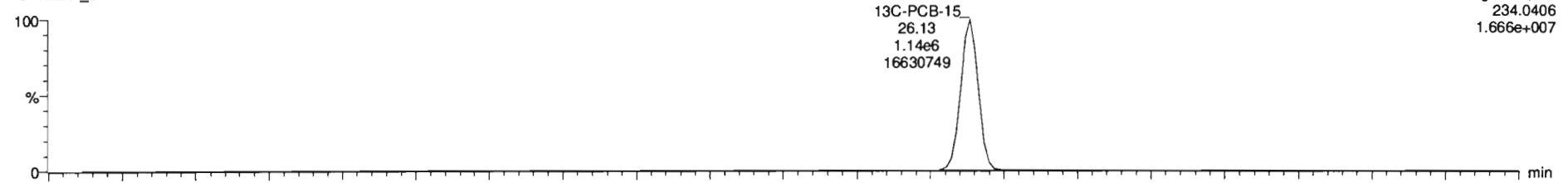
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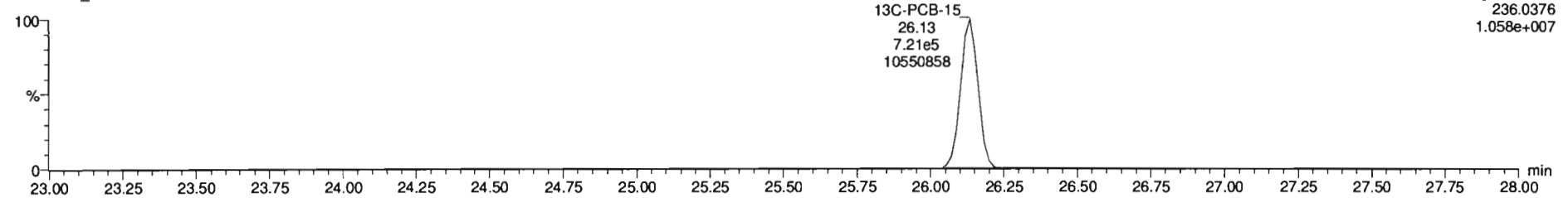
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13C-PCB-15

191122K4_6

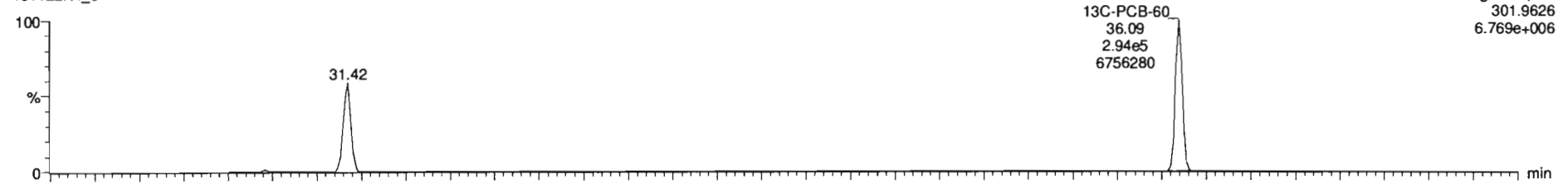


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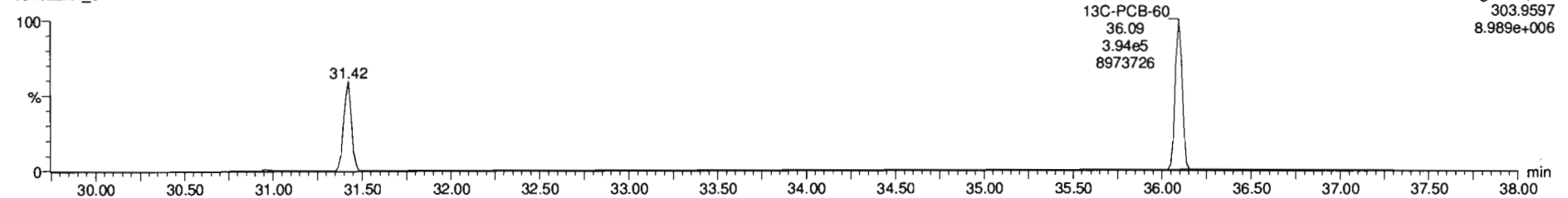


13C-PCB-60

191122K4_6



191122K4_6



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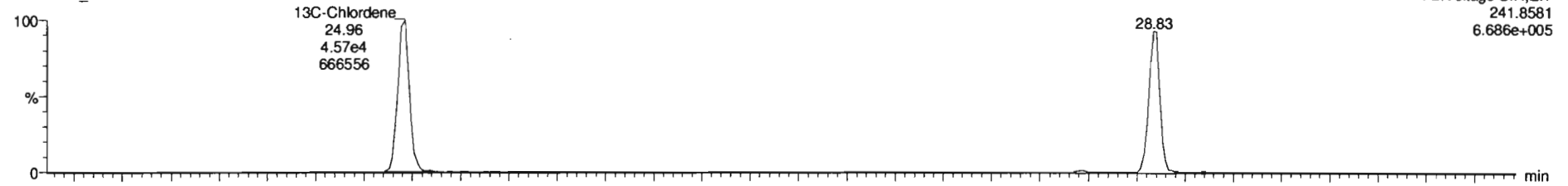
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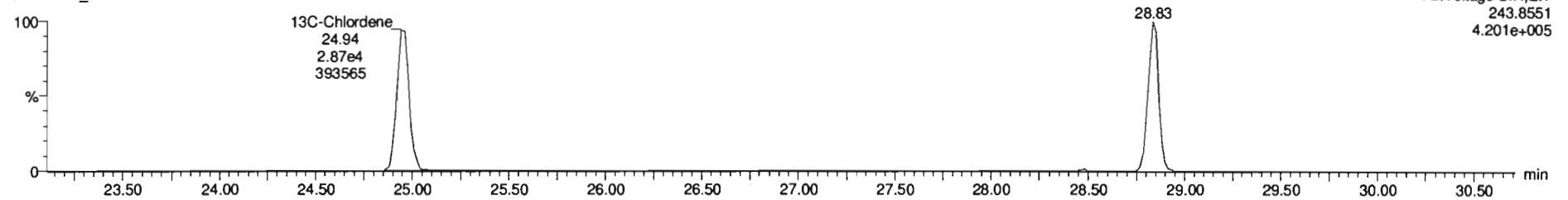
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13C-Chlordene

191122K4_6

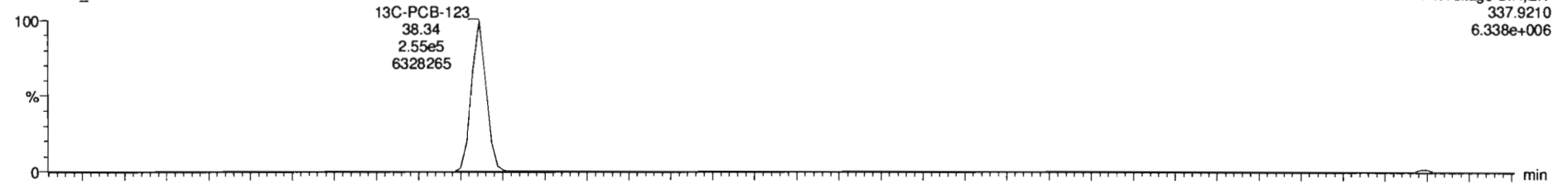


191122K4_6

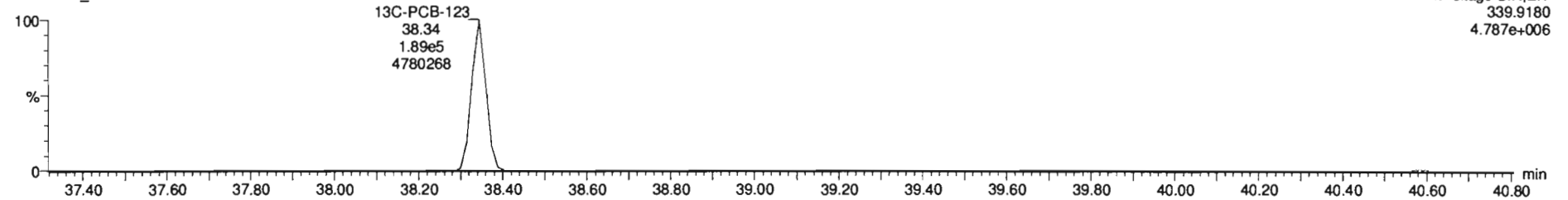


13C-PCB-123

191122K4_6



191122K4_6



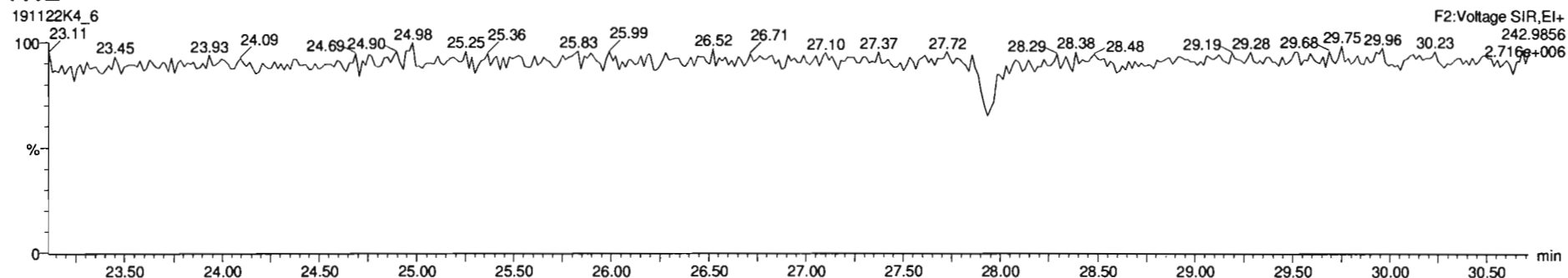
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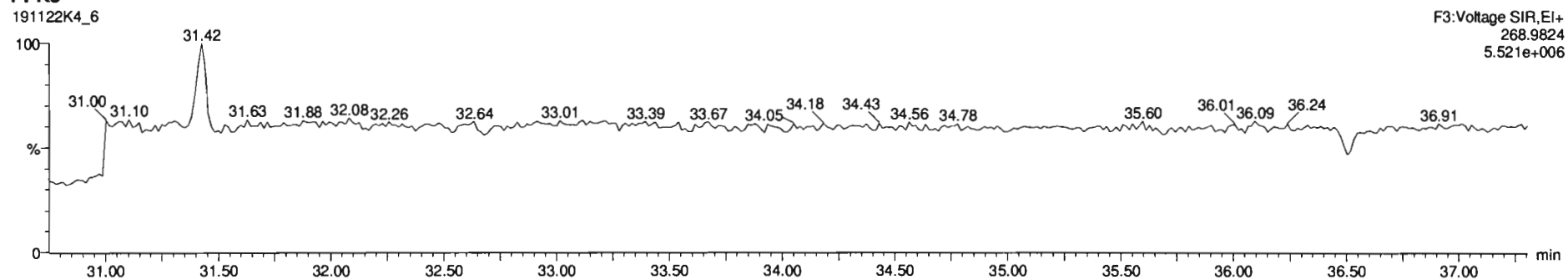
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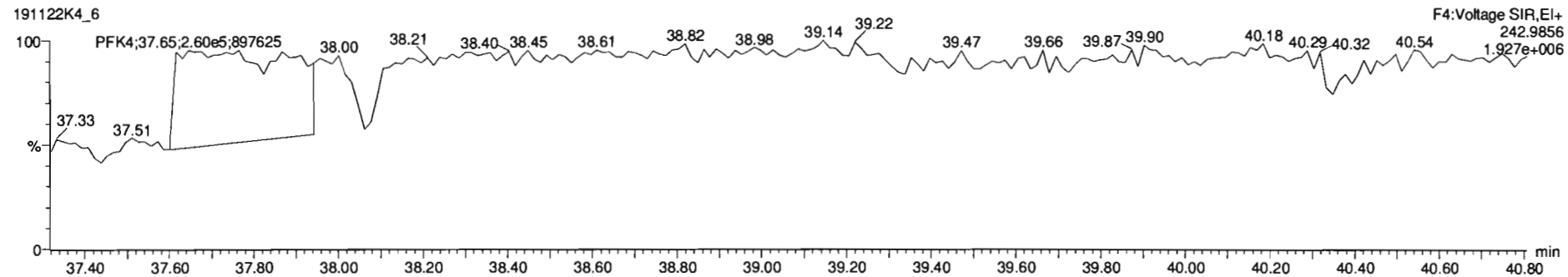
PFK2



PFK3



PFK4



Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\2019\191122K4\191122K4-7B.qld

Last Altered: Friday, February 07, 2020 10:26:24 Pacific Standard Time

Printed: Friday, February 07, 2020 10:28:51 Pacific Standard Time

M 2/7/20
GEB 02/07/2020

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

02/07/2020

Name: 191122K4_7, Date: 23-Nov-2019, Time: 13:31:51, ID: 1904016-05 PDI-141RAB-00-10-191107 1, Description: PDI-141RAB-00-10-191107

#	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)	3.70e3	2.85e5	1.74	NO	0.744	1.015	26.66	26.66	1.001	1.001	NO	17.2		3.61	17.2
2	9 Aldrin	1.75e3	1.44e5	1.83	NO	1.02	1.015	30.99	31.00	1.001	1.001	NO	11.7		3.46	11.7
3	10 Oxychlorane	5.70e2	3.61e4	1.35	NO	0.992	1.015	33.59	33.60	1.001	1.001	NO	15.7		12.4	15.7
4	13 trans-Chlordane (gam...	1.63e4	3.62e4	1.36	NO	1.08	1.015	35.28	35.29	1.001	1.001	NO	408		11.3	408
5	14 trans-Nonachlor	7.75e3	4.25e4	1.45	NO	1.00	1.015	35.49	35.49	1.001	1.001	NO	179		9.18	179
6	15 cis-Chlordane	1.29e4	4.25e4	1.59	NO	0.981	1.015	35.97	35.98	1.014	1.014	NO	304		9.38	304
7	18 2,4'-DDE	2.14e4	1.00e6	1.26	NO	0.854	1.015	35.96	35.96	1.000	1.000	NO	24.7		1.85	24.7
8	19 4,4'-DDE	1.94e5	7.25e5	1.35	NO	0.873	1.015	37.03	37.04	1.001	1.000	NO	302		2.48	302
9	20 Dieldrin	3.08e4	9.61e4	1.67	NO	0.957	1.015	37.53	37.54	1.001	1.000	NO	329		6.57	329
10	22 cis-Nonachlor	2.68e3	4.89e4	1.23	NO	0.956	1.015	39.22	39.23	1.001	1.000	NO	56.6		13.8	56.6

Dataset: U:\VG11.PRO\Results\2019\191122K4\191122K4-7B.qld

Last Altered: Friday, February 07, 2020 10:26:24 Pacific Standard Time

Printed: Friday, February 07, 2020 10:29:00 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: 191122K4_7, Date: 23-Nov-2019, Time: 13:31:51, ID: 1904016-05 PDI-141RAB-00-10-191107 1, Description: PDI-141RAB-00-10-191107

	#.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	2.64e5	8.95e5	1.56	NO	0.915	1.015	38.17	38.18	1.000	1.000	NO	317		3.00	317
2	25 2,4'-DDT	1.70e5	5.59e5	1.65	NO	0.921	1.015	39.31	39.31	1.000	1.000	NO	325		4.86	325
3	26 4,4'-DDD	9.20e5	7.94e5	1.56	NO	1.00	1.015	39.45	39.44	1.000	1.000	NO	1140		3.18	1140
4	27 4,4'-DDT	9.61e5	4.51e5	1.61	NO	0.986	1.015	40.50	40.49	1.000	1.000	NO	2130		5.65	2130
5	36 13C6-Lindane (gamma)	2.85e5	1.71e6	0.80	NO	0.189	1.015	26.64	26.63	1.019	1.020	NO	869	88.2	4.31	
6	40 13C12-Aldrin	1.44e5	1.71e6	1.62	NO	0.122	1.015	30.95	30.96	1.185	1.184	NO	680	69.0	3.94	
7	41 13C10-Oxychlorane	3.61e4	1.71e6	1.52	NO	0.0283	1.015	33.55	33.57	1.284	1.284	NO	734	74.6	16.9	

Dataset: U:\VG11.PRO\Results\2019\191122K4\191122K4-7B.qld

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Printed: Friday, February 07, 2020 10:29:07 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: 191122K4_7, Date: 23-Nov-2019, Time: 13:31:51, ID: 1904016-05 PDI-141RAB-00-10-191107 1, Description: PDI-141RAB-00-10-191107

	#.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...	3.62e4	1.71e6	1.56	NO	0.0292	1.015	35.25	35.26	1.349	1.349	NO	715	72.6	16.4	
2	44 13C10-trans-Nonachlor	4.25e4	1.71e6	1.81	NO	0.0333	1.015	35.44	35.47	1.357	1.356	NO	734	74.6	14.4	
3	46 13C12-2,4'-DDE	1.00e6	1.71e6	1.57	NO	0.763	1.015	35.95	35.95	0.996	0.996	NO	756	76.8	3.74	
4	47 13C12-4,4'-DDE	7.25e5	1.71e6	1.60	NO	0.552	1.015	37.01	37.01	1.025	1.026	NO	755	76.7	5.17	
5	48 13C12-Dieldrin	9.61e4	1.71e6	1.55	NO	0.0749	1.015	37.51	37.51	1.039	1.039	NO	739	75.0	9.46	
6	50 13C10-cis-Nonachlor	4.89e4	1.71e6	1.53	NO	0.0389	1.015	39.20	39.20	1.086	1.086	NO	723	73.4	18.2	
7	52 13C12-2,4'-DDD	8.95e5	1.71e6	1.59	NO	0.588	1.015	38.12	38.17	1.460	1.459	NO	876	88.9	5.29	
8	53 13C12-2,4'-DDT	5.59e5	1.71e6	1.63	NO	0.370	1.015	39.25	39.29	1.504	1.502	NO	870	88.3	8.40	
9	54 13C12-4,4'-DDD	7.94e5	1.71e6	1.62	NO	0.473	1.015	39.37	39.43	1.509	1.507	NO	966	98.1	6.57	
10	55 13C12-4,4'-DDT	4.51e5	1.71e6	1.59	NO	0.280	1.015	40.44	40.48	1.549	1.547	NO	926	94.0	11.1	
11	62 13C-PCB-15	1.71e6	1.71e6	1.58	NO	1.00	1.015	26.18	26.13	1.000	1.000	NO	985	100	0.845	

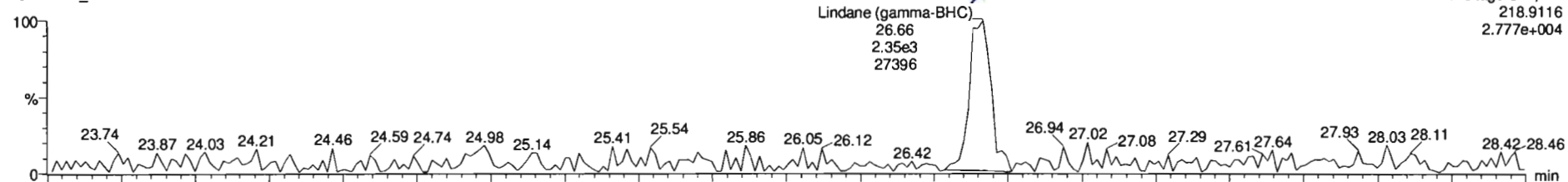
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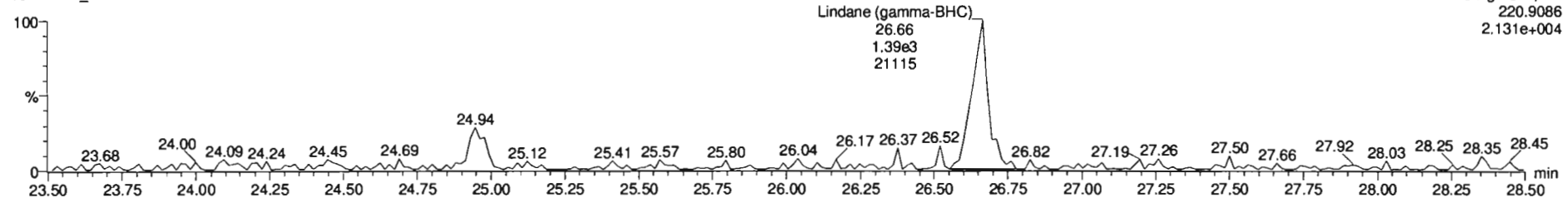
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Lindane (gamma-BHC)

191122K4_7

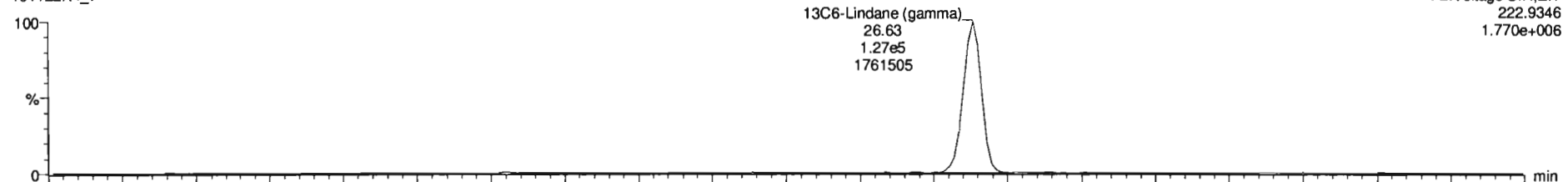


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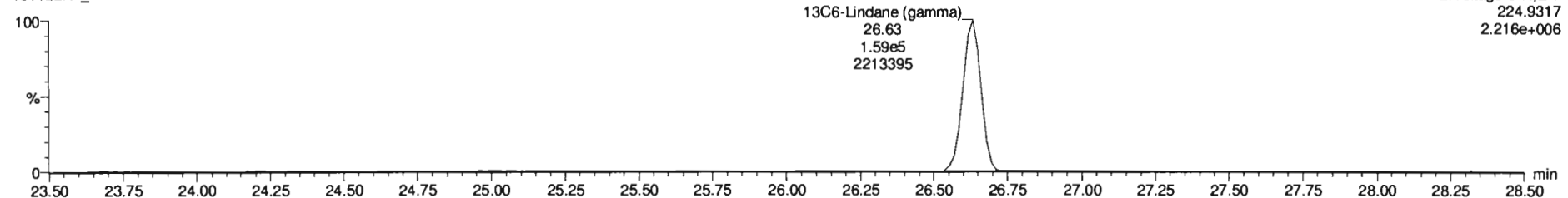


13C6-Lindane (gamma)

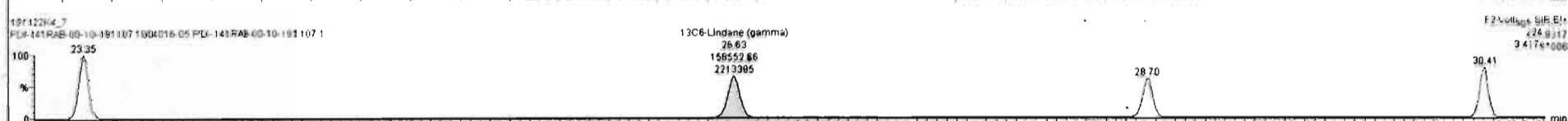
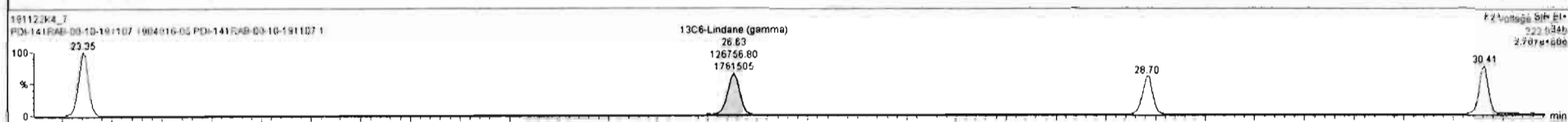
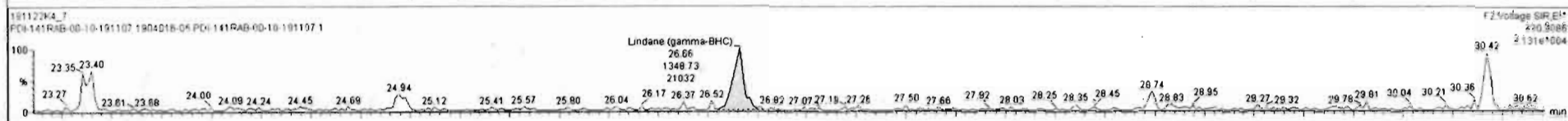
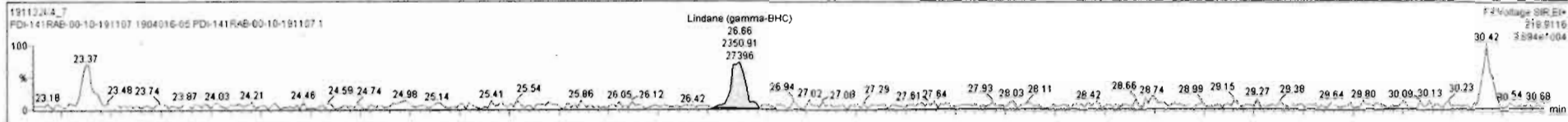
191122K4_7



191122K4_7



#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtAdj	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	3.56e4	1.62e6	33	0.24	YES	0.1790	1.015	10.23	10.23	1.000	1.000	NO	1210	2.97	422	
2	Hexachlorobenzene	1.09e5	9.88e5	34	1.24	NO	0.8743	1.015	22.83	22.83	1.001	1.001	NO	127	0.147	127	
3	Alpha-BHC	2.85e3	3.59e5	35	2.28	NO	0.7805	1.015	23.40	23.37	1.001	1.002	NO	10.3	2.29	10.3	
4	Lindane (gamma-BHC)	3.70e3	2.85e5	36	1.74	NO	0.7444	1.015	26.86	26.86	1.001	1.001	NO	17.2	3.61	17.2	
5	Beta-BHC	2.23e5	37	NO	0.8960	1.015	28.71				1.000	YES			3.26		
6	Delta-BHC	3.08e3	2.57e5	38	2.29	NO	0.8374	1.015	30.43	30.42	1.001	1.001	NO	14.1	2.73	14.1	
7	Heptachlor	1.17e5	39	NO	0.9677	1.015	28.86				1.001	YES			2.14		
8	4,4'-DDMU	1.07e3	2.57e5	38	NO	1.2660	1.015	30.33	30.34	0.998	0.997	NO	3.25	4.54	0.000		
9	Alkin	1.90e3	1.44e5	40	1.94	NO	1.0236	1.015	30.99	31.00	1.001	1.001	NO	12.7	3.46	12.7	
10	Oxychloridene	3.71e4	41	NO	0.9924	1.015	33.59				1.001	YES			12.6		
11	cis-Heptachlor Epoxide	4.85e4	42	NO	1.0028	1.015	34.38				1.001	YES			9.05		
12	trans-Heptachlor Epoxide	4.85e4	42	NO	0.2550	1.015	34.87				1.015	YES			35.6		
13	trans-Chlordane (gamma)	1.63e4	3.62e4	43	1.36	NO	1.0836	1.015	35.28	35.29	1.001	1.001	NO	408	11.3	408	
14	trans-Nonachlor	7.75e3	4.25e4	44	1.45	NO	1.0022	1.015	35.49	35.49	1.001	1.001	NO	179	9.18	179	
15	cis-Chlordane	1.29e4	4.25e4	44	1.59	NO	0.9810	1.015	35.97	35.98	1.014	1.014	NO	304	9.38	304	
16	Endosulfan I (alpha)	2.45e4	45	NO	1.062	1.015	36.07				1.001	YES			16.0		
17	4,4'-DDMU	4.91e4	1.00e6	46	3.08	NO	0.6167	1.015	35.74	35.73	0.994	0.994	NO	78.2	2.35	78.2	



Dataset: Untitled

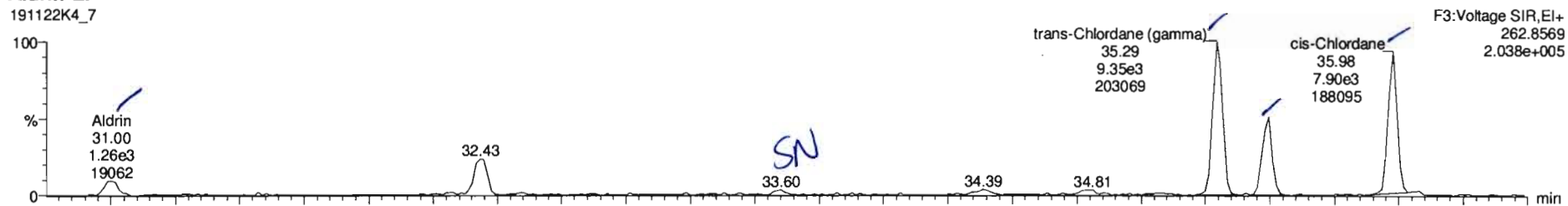
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Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

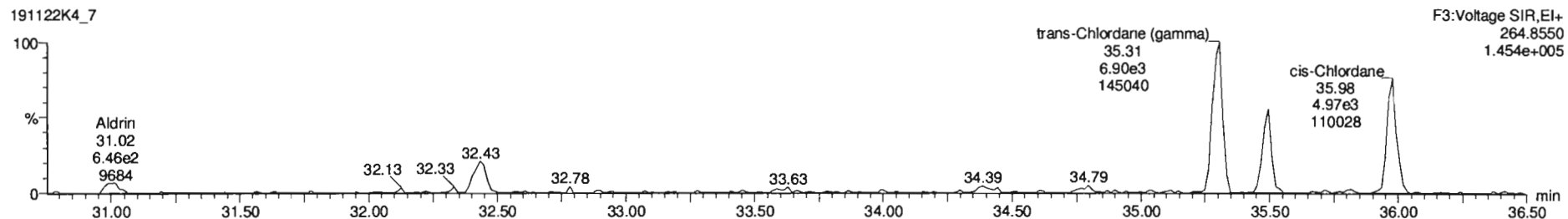
Name: 191122K4_7, Date: 23-Nov-2019, Time: 13:31:51, ID: 1904016-05 PDI-141RAB-00-10-191107 1, Description: PDI-141RAB-00-10-191107

Aldrin-EI

191122K4_7

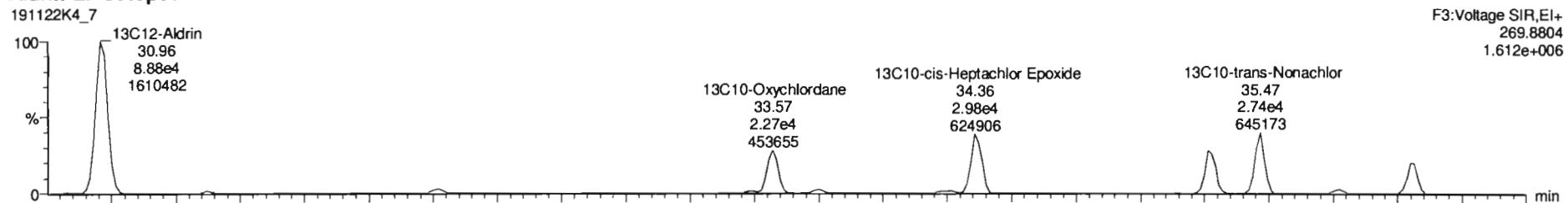


191122K4_7

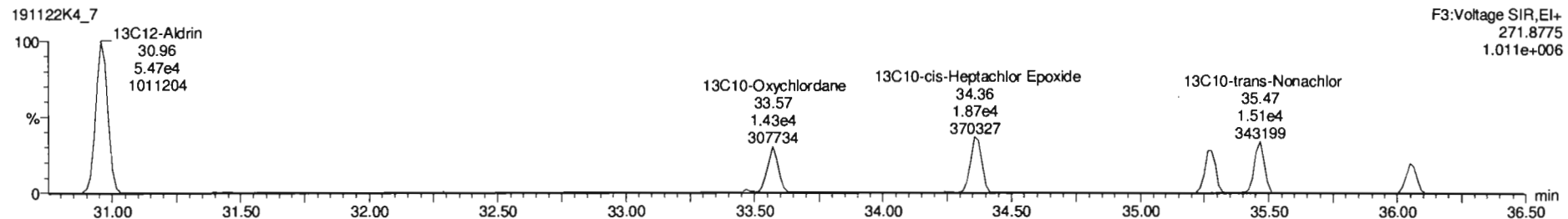


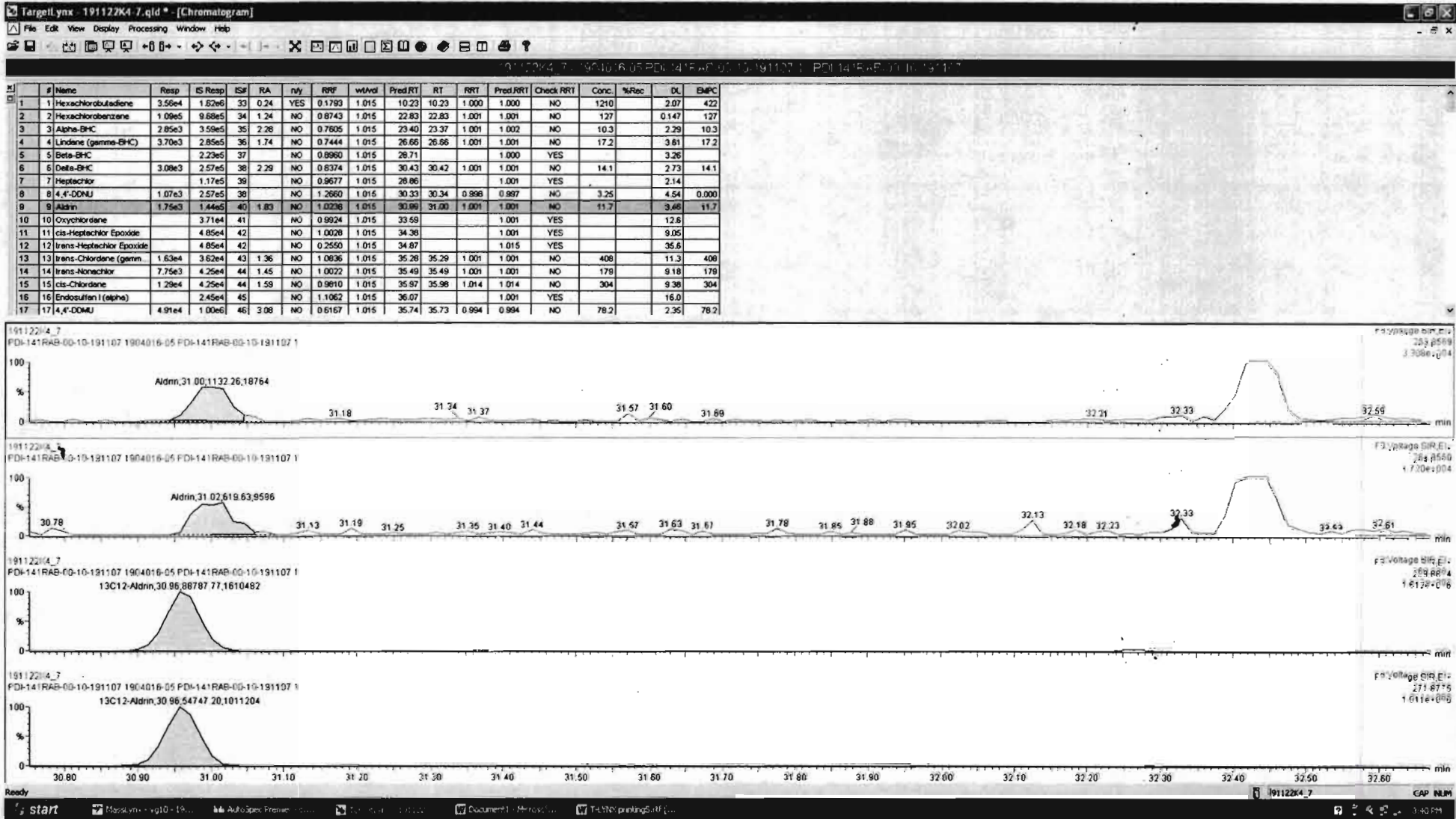
Aldrin-EI-isotopes

191122K4_7

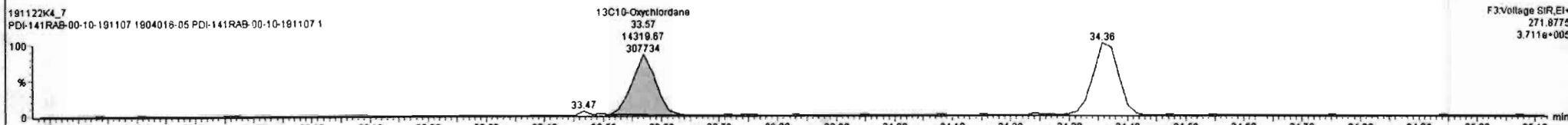
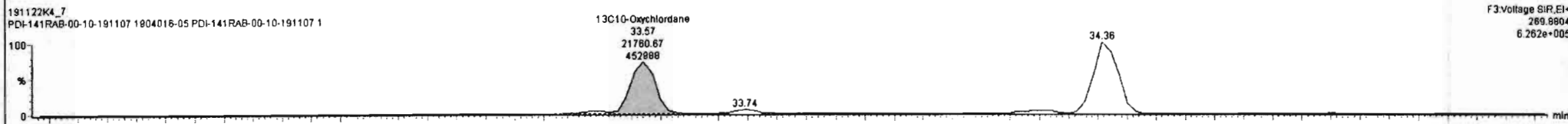
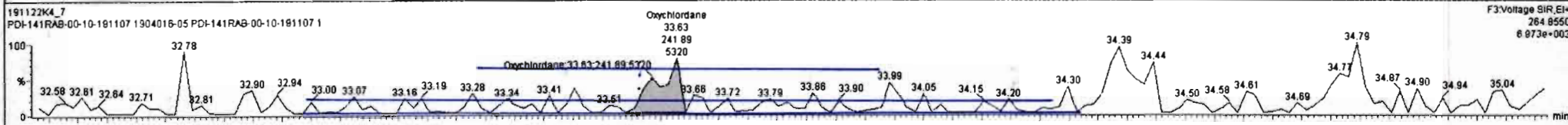
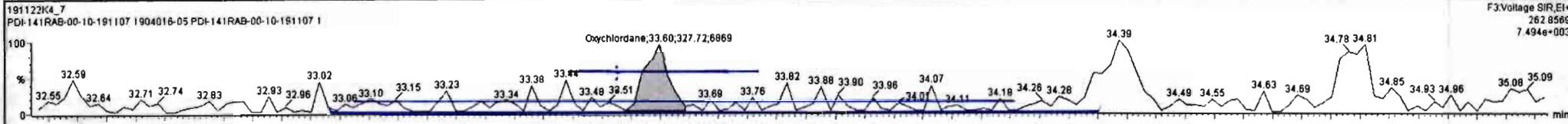


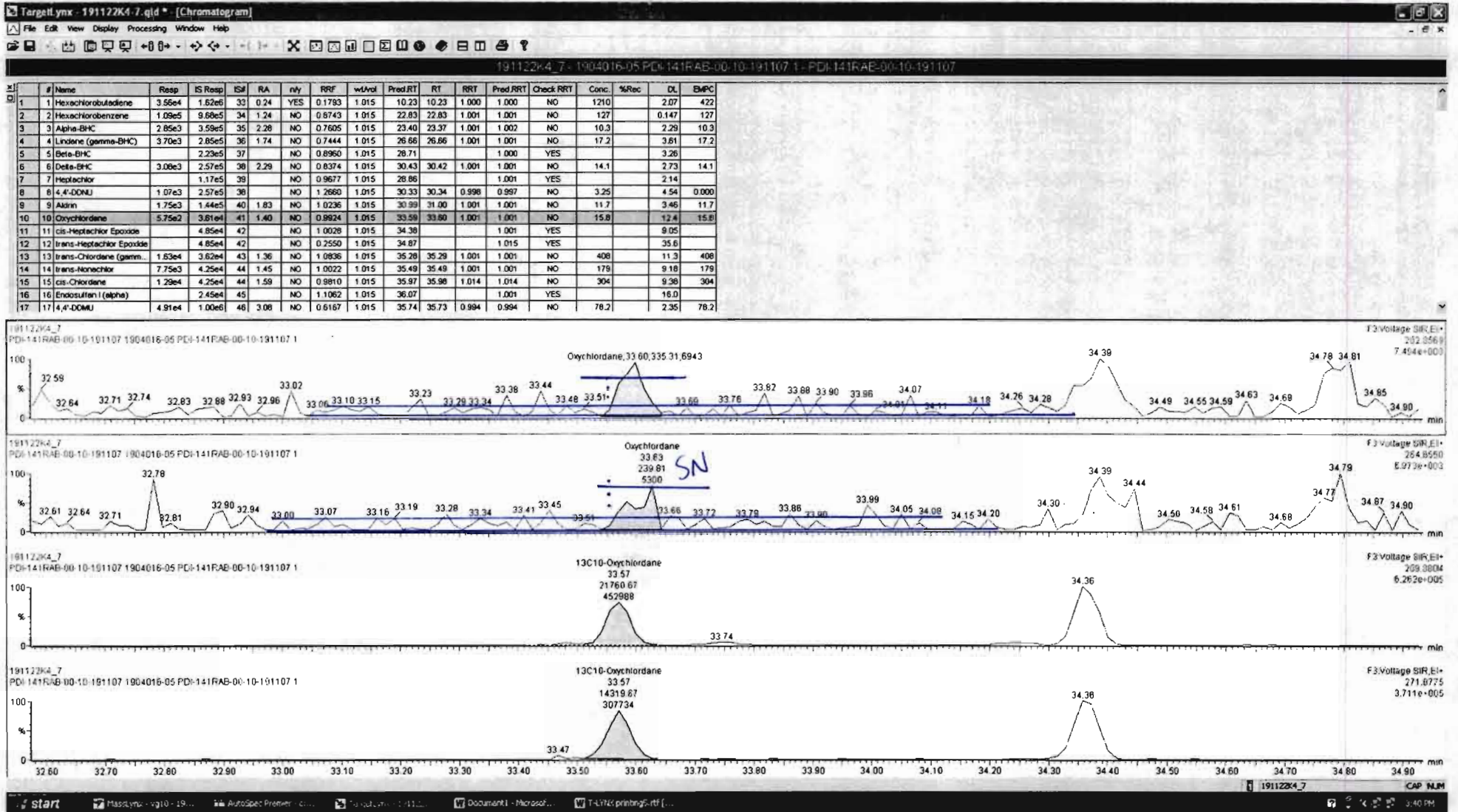
191122K4_7





#	Name	Resp	IS Resp	IS#	RA	n/y	R#	wt/Vol	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	3.56e4	1.52e6	33	0.24	YES	0.1793	1.015	10.23	10.23	1.000	1.000	NO	1210		2.07	422
2	Hexachlorobenzene	1.09e5	9.89e5	34	1.24	NO	0.8743	1.015	22.83	22.83	1.001	1.001	NO	127		0.147	127
3	Alpha-BHC	2.85e3	3.59e5	35	2.28	NO	0.7605	1.015	23.40	23.37	1.001	1.002	NO	10.3		2.29	10.3
4	Lindane (gamma-BHC)	3.70e3	2.85e5	36	1.74	NO	0.7444	1.015	26.66	26.68	1.001	1.001	NO	17.2		3.61	17.2
5	Beta-BHC		2.23e5	37		NO	0.8960	1.015	28.71				YES			3.26	
6	Delta-BHC	3.06e3	2.57e5	38	2.29	NO	0.8374	1.015	30.43	30.42	1.001	1.001	NO	14.1		2.73	14.1
7	Heptachlor		1.17e5	39		NO	0.9677	1.015	28.86				YES			2.14	
8	4,4'-DDE	1.07e3	2.57e5	38		NO	1.2680	1.015	30.33	30.34	0.998	0.997	NO	3.25		4.54	0.000
9	Aldrin	1.75e3	1.44e5	40	1.83	NO	1.0236	1.045	30.99	31.00	1.001	1.001	NO	11.7		3.46	11.7
10	Oxychlorane	5.70e2	3.81e4	41	1.35	NO	0.9924	1.015	33.59	33.60	1.001	1.001	NO	15.7		12.4	15.7
11	cis-Heptachlor Epoxide		4.85e4	42		NO	1.0028	1.015	34.38				YES			9.05	
12	trans-Heptachlor Epoxide		4.85e4	42		NO	0.2550	1.015	34.87				YES			35.6	
13	trans-Chlordane (gamma)	1.63e4	3.62e4	43	1.36	NO	1.0836	1.015	35.28	35.28	1.001	1.001	NO	408		11.3	408
14	trans-Nonachlor	7.75e3	4.25e4	44	1.45	NO	1.0022	1.015	35.49	35.49	1.001	1.001	NO	179		9.18	179





Dataset: Untitled

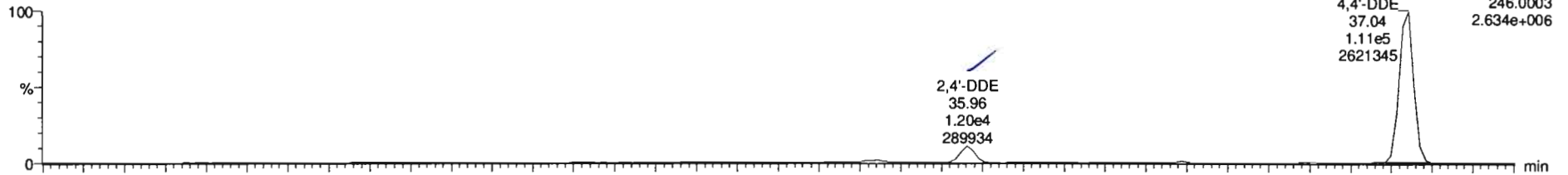
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Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

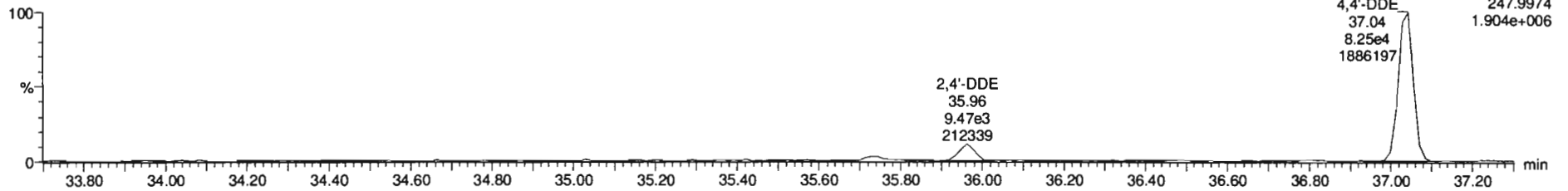
Name: 191122K4_7, Date: 23-Nov-2019, Time: 13:31:51, ID: 1904016-05 PDI-141RAB-00-10-191107 1, Description: PDI-141RAB-00-10-191107

DDMU-DDE

191122K4_7

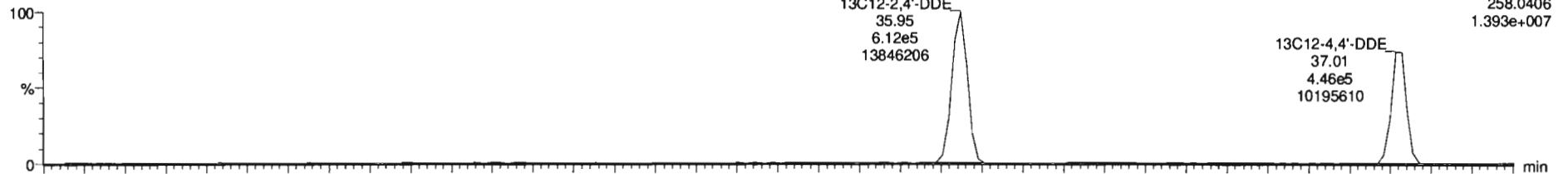


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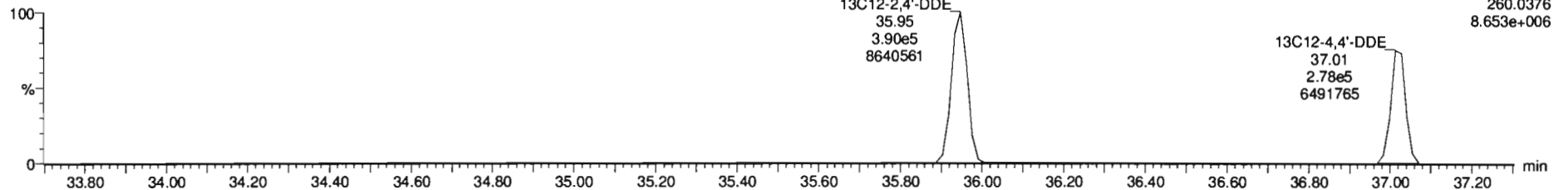


DDE-isotopes

191122K4_7



191122K4_7



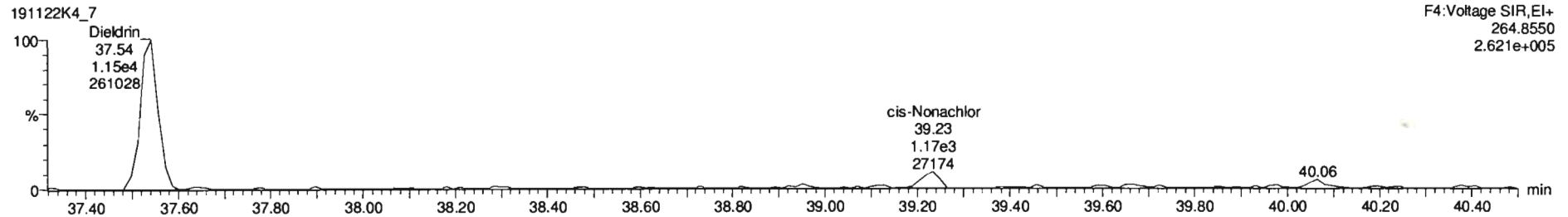
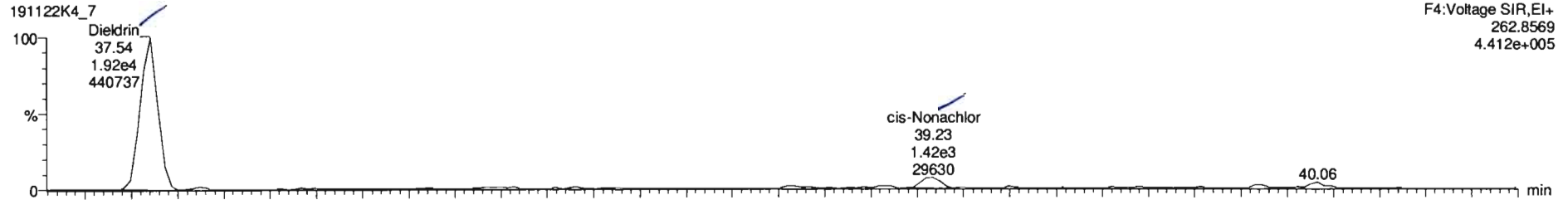
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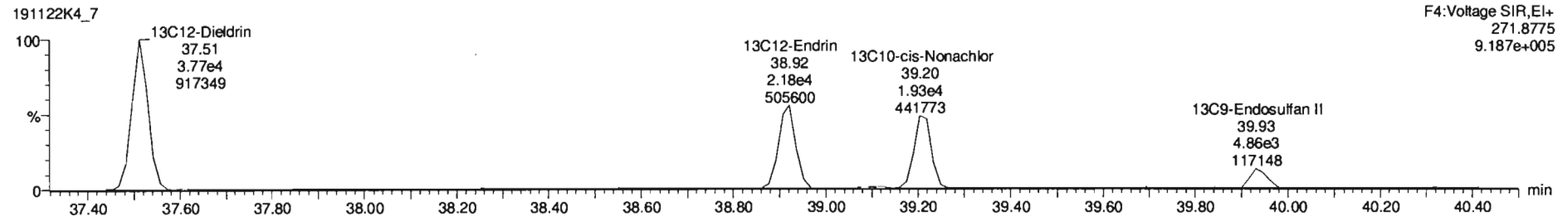
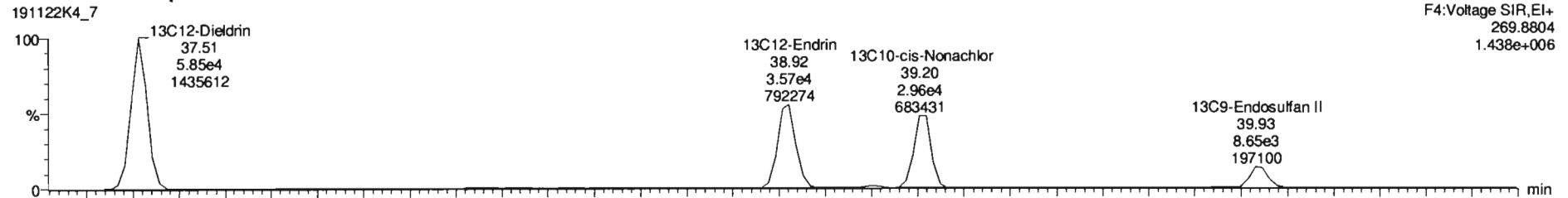
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Name: 191122K4_7, Date: 23-Nov-2019, Time: 13:31:51, ID: 1904016-05 PDI-141RAB-00-10-191107 1, Description: PDI-141RAB-00-10-191107

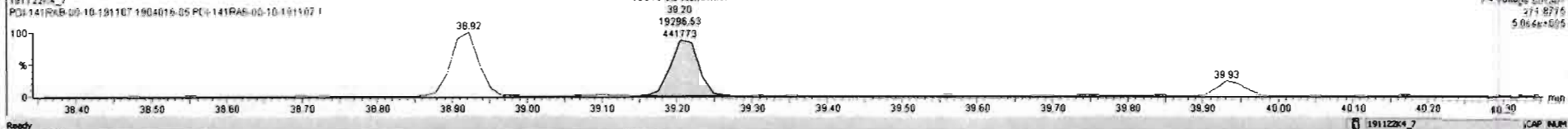
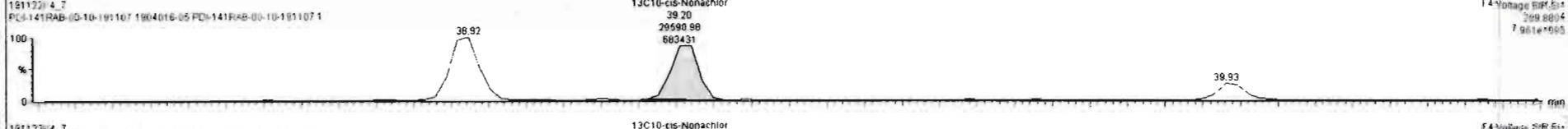
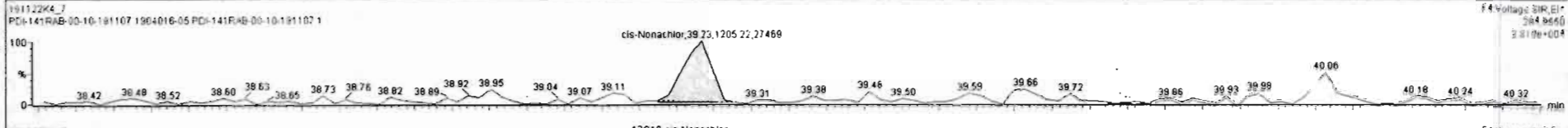
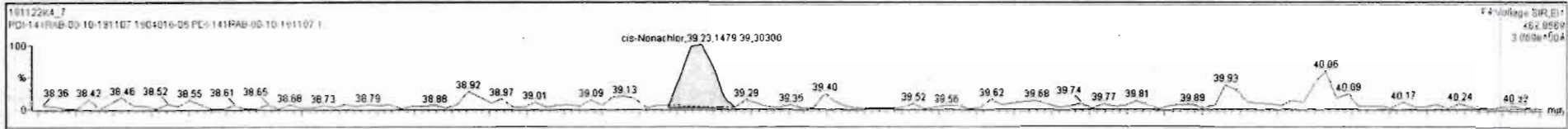
Dieldrin-EII



Dieldrin-EII-isotopes



#	Name	Resp	S Resp	ISF	RA	nly	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
18	2,4-DDE	2.14e4	1.00e6	46	1.26	NO	0.8542	1.015	35.96	35.96	1.000	1.000	NO	24.7		1.85	24.7
19	4,4'-DDE	1.94e5	7.25e5	47	1.35	NO	0.8726	1.015	37.03	37.04	1.001	1.000	NO	302		2.48	302
20	Dieldrin	3.08e4	9.61e4	48	1.67	NO	0.9570	1.015	37.53	37.54	1.001	1.000	NO	329		6.57	329
21	Endrin	5.75e4	49			NO	0.9326	1.015	38.92			1.000	YES			12.5	
22	cis-Nonachlor	2.68e3	4.88e4	50	1.23	NO	0.9556	1.015	38.22	38.23	1.001	1.000	NO	58.6		13.8	58.6
23	Endosulfan I (beta)	1.35e4	51			NO	1.0638	1.015	38.93			1.000	YES			45.3	
24	2,4'-DDD	2.64e5	8.95e5	52	1.56	NO	0.9153	1.015	38.17	38.18	1.000	1.000	NO	317		3.00	317
25	2,4'-DDT	1.70e5	5.59e5	53	1.65	NO	0.9205	1.015	39.31	39.31	1.000	1.000	NO	325		4.86	325
26	4,4'-DDD	9.20e5	7.94e5	54	1.56	NO	1.0039	1.015	39.45	39.44	1.000	1.000	NO	1140		3.18	1140
27	4,4'-DDT	9.61e5	4.51e5	55	1.61	NO	0.9865	1.015	40.50	40.49	1.000	1.000	NO	2130		5.65	2130
28	Endosulfan Sulfate	1.89e4	56			NO	0.9279	1.015	41.67			1.000	YES			29.9	
29	4,4'-Methoxychlor	1.13e4	3.41e6	57	1.47	NO	1.1362	1.015	43.53	43.54	1.000	1.000	NO	28.8		12.1	28.8
30	lindex	1.40e4	1.72e5	58	1.39	NO	0.9323	1.015	44.10	44.09	1.000	1.000	NO	85.9		4.87	85.9
31	Endrin Aldehyde	3.61e5	59			NO	0.8967	1.015	41.09			1.000	YES			19.0	
32	Endrin Ketone	2.88e5	60			NO	0.9108	1.015	44.22			1.000	YES			25.6	
33	13C4-Hexachlorobutadi...	1.62e6	1.71e6	62	1.27	NO	0.1362	1.015	10.19	10.23	0.391	0.390	NO	6740	68.5	0.821	
34	13C6-Hexachlorobenz...	9.88e5	1.71e6	62	1.28	NO	0.6811	1.015	22.83	22.81	0.873	0.874	NO	806	81.9	0.135	



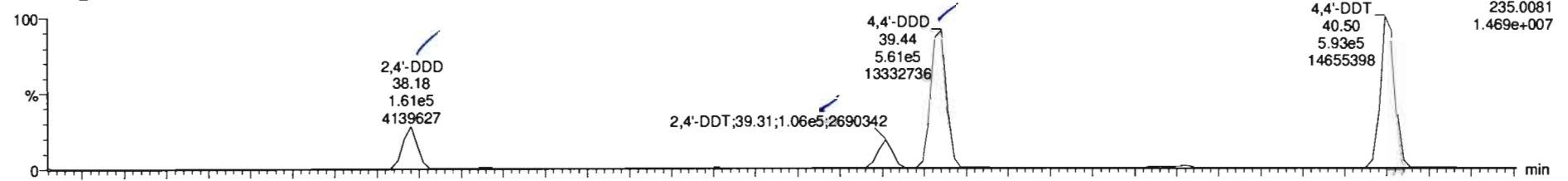
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Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

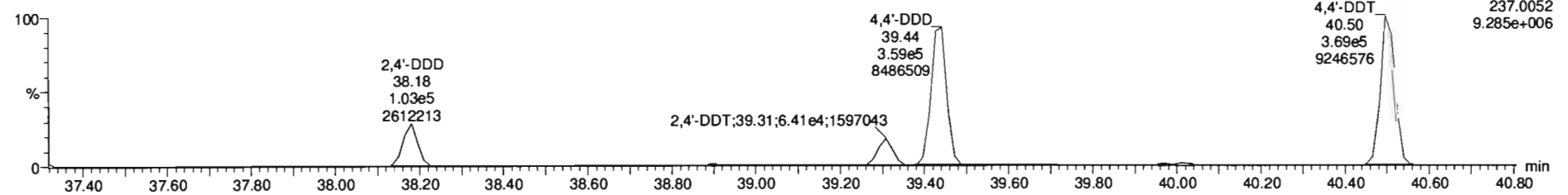
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DDD-DDT

191122K4_7

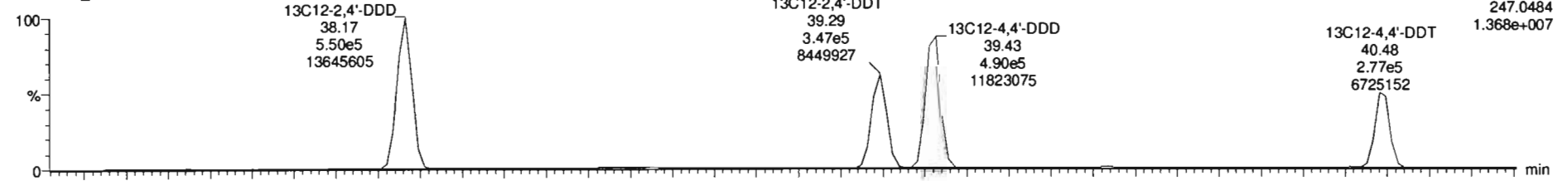


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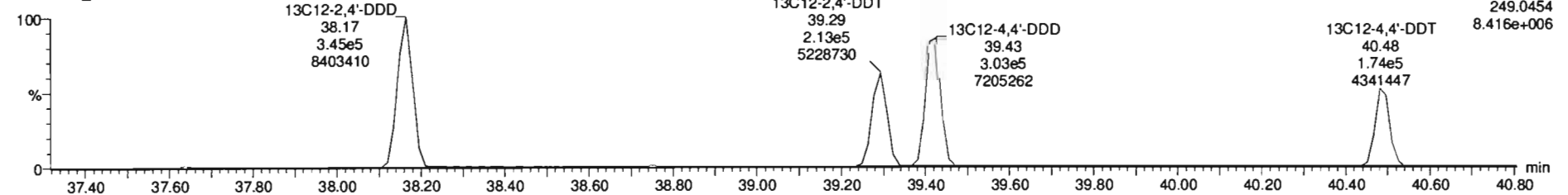


DDD-DDT-isotopes

191122K4_7



191122K4_7



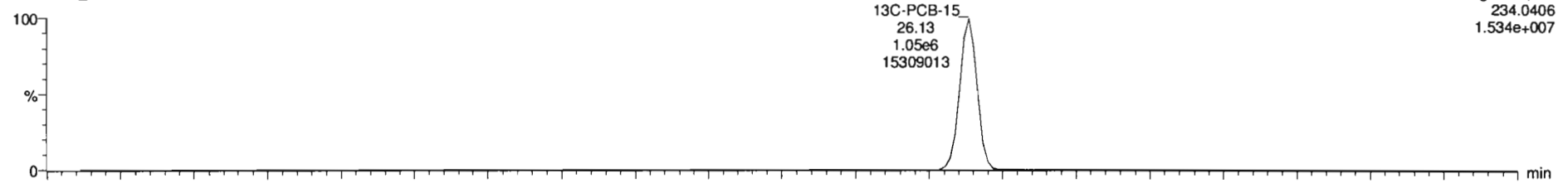
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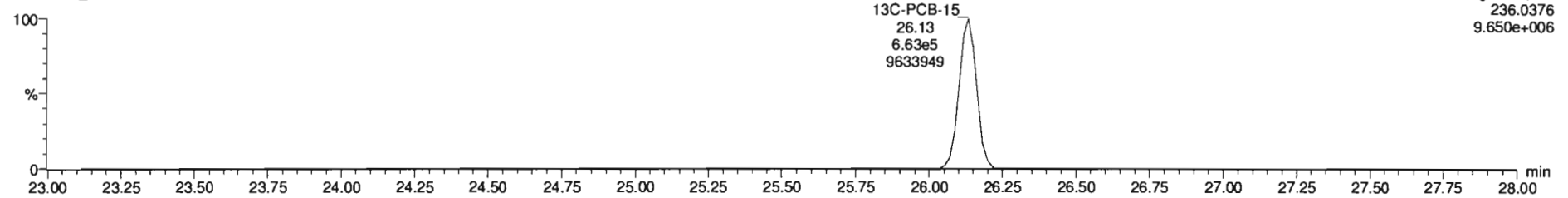
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13C-PCB-15

191122K4_7

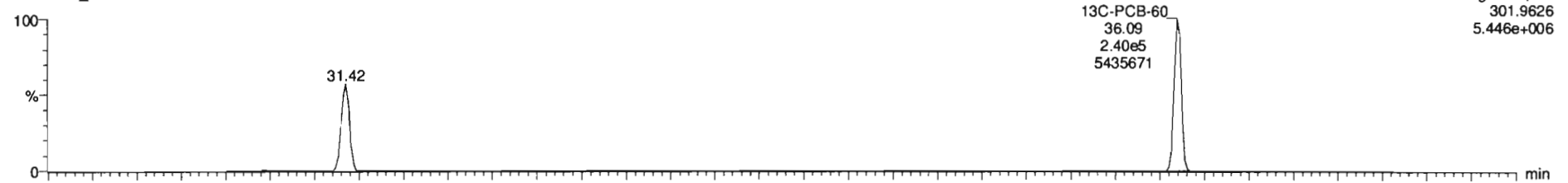


191122K4_7

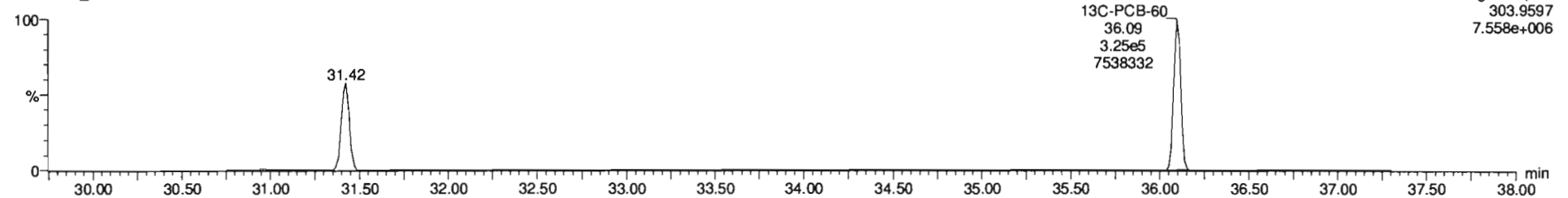


13C-PCB-60

191122K4_7



191122K4_7



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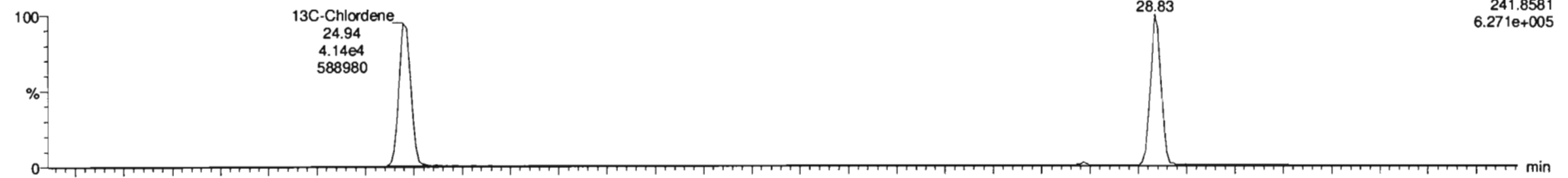
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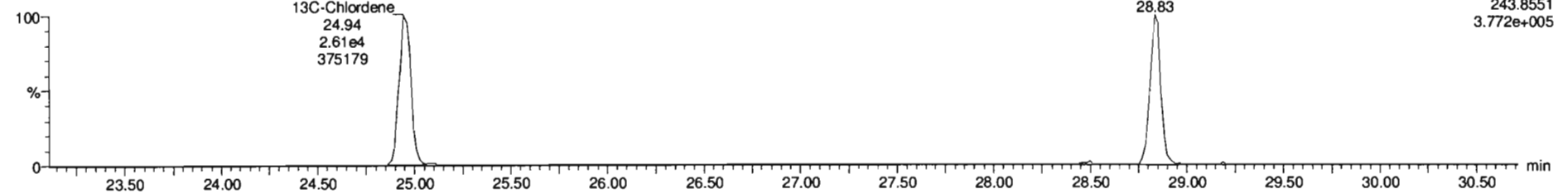
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13C-Chlordene

191122K4_7

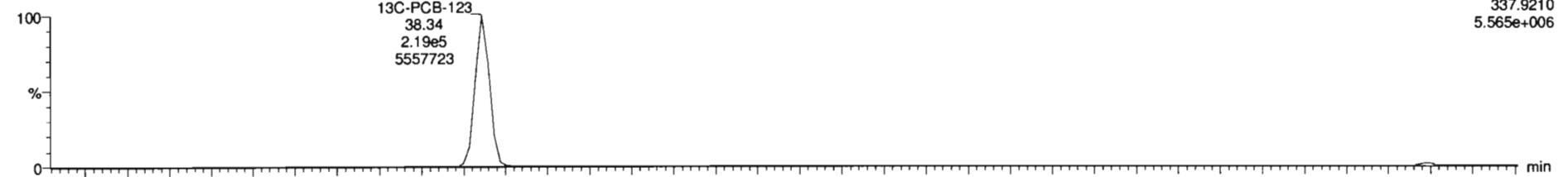


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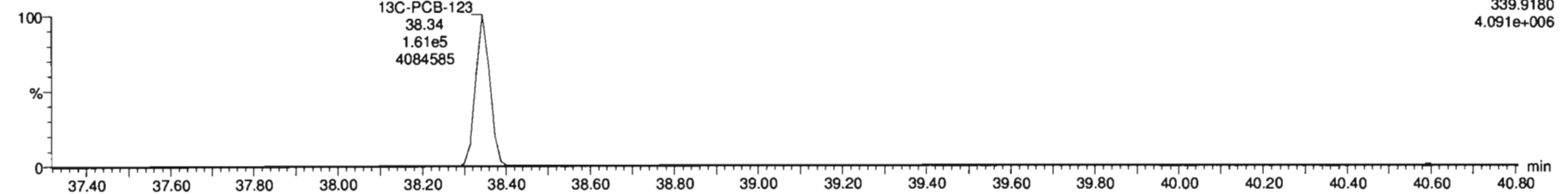


13C-PCB-123

191122K4_7



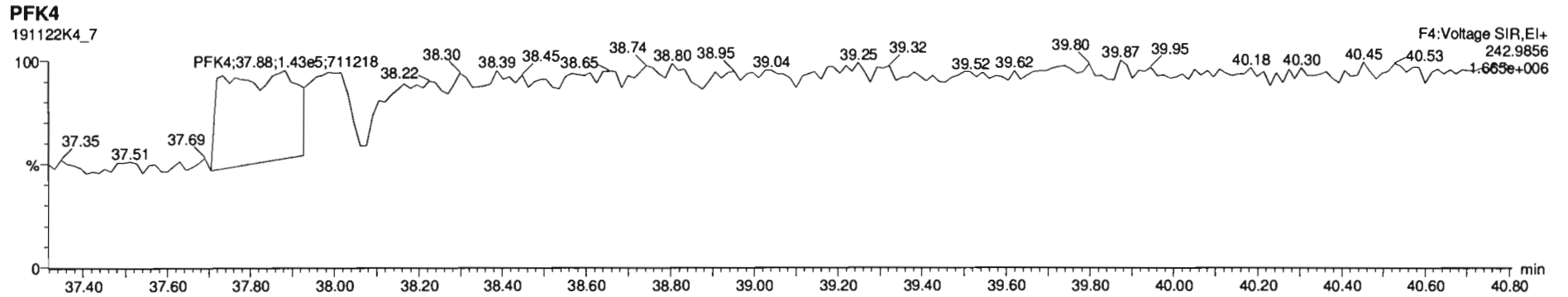
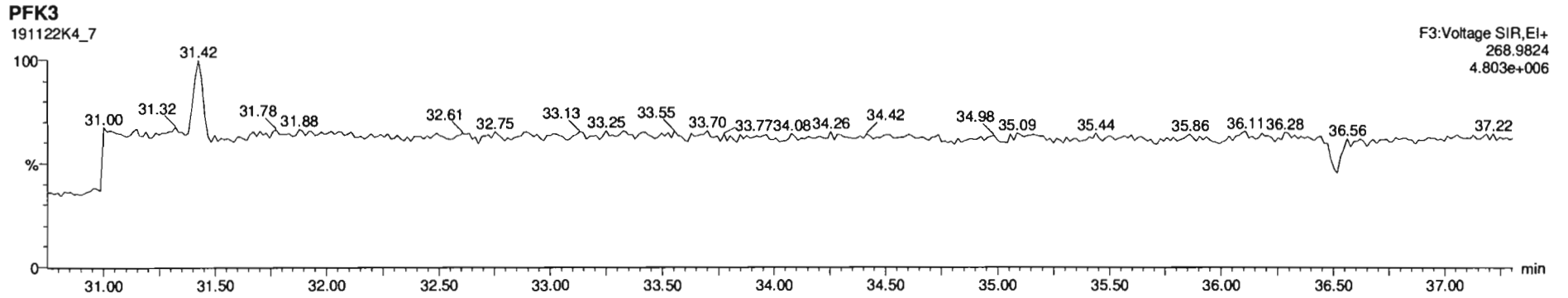
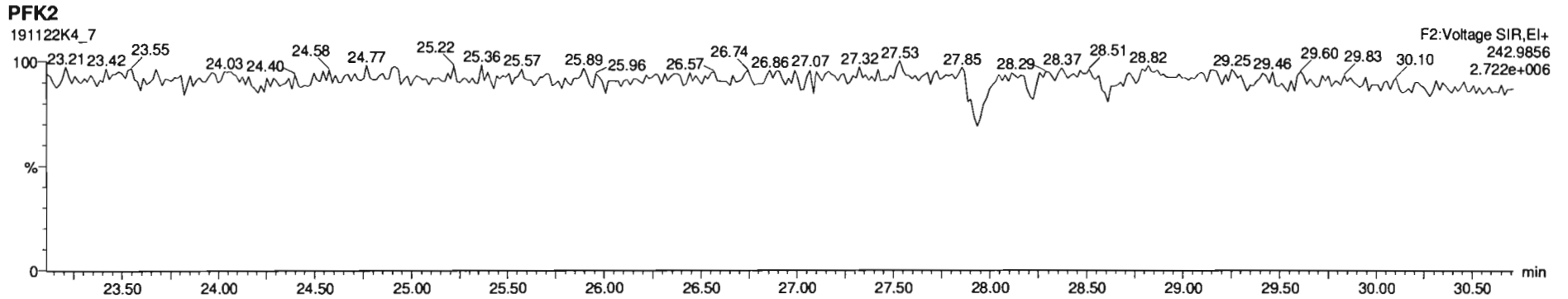
191122K4_7



Dataset: Untitled

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Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

Name: 191122K4_7, Date: 23-Nov-2019, Time: 13:31:51, ID: 1904016-05 PDI-141RAB-00-10-191107 1, Description: PDI-141RAB-00-10-191107



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-6.qld

Last Altered: Monday, February 03, 2020 11:12:24 Pacific Standard Time

Printed: Monday, February 03, 2020 11:16:39 Pacific Standard Time

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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_6, Date: 01-Feb-2020, Time: 17:59:16, ID: 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19, Description: PDI-141RAB-10-17.7-191107

#	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)	4.89e4			NO	0.869	0.998 ✓	26.56			1.001	YES			353	
2	9 Aldrin	3.06e4			NO	1.11	0.998	30.79			1.001	YES			70.6	
3	10 Oxychlordan	5.36e3			NO	1.09	0.998	33.37			1.001	YES			483	
4	13 trans-Chlordane (gam...	6.10e3			NO	1.18	0.998	35.08			1.001	YES			323	
5	14 trans-Nonachlor	7.58e3			NO	1.08	0.998	35.27			1.001	YES			273	
6	15 cis-Chlordane	7.58e3			NO	1.11	0.998	35.75			1.014	YES			265	
7	18 2,4'-DDE	3.44e4	1.78e5	1.29	NO	0.984	0.998	35.79	35.79	1.000	1.000	NO	987		107	987
8	19 4,4'-DDE	1.02e5	1.29e5	1.38	NO	0.996	0.998	36.86	36.85	1.000	1.000	NO	3960		143	3960
9	20 Dieldrin	6.21e2	1.63e4	1.01	YES	1.09	0.998	37.30	37.33	1.001	1.000	NO	175		289	144
10	22 cis-Nonachlor	7.97e3			NO	1.08	0.998	38.99			1.000	YES			400	

Dataset: U:\VG11.PRO\Results\200201K2\200201K2-6.qld

Last Altered: Monday, February 03, 2020 11:12:24 Pacific Standard Time

Printed: Monday, February 03, 2020 11:16:45 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_6, Date: 01-Feb-2020, Time: 17:59:16, ID: 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19, Description: PDI-141RAB-10-17.7-191107

	#-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	1.57e5	4.21e4	1.55	NO	1.05	0.998	37.94	37.95	1.000	1.000	NO	17800		760	17800
2	25 2,4'-DDT	4.44e4	1.12e5	1.48	NO	1.03	0.998	39.08	39.08	1.000	1.000	NO	1930		293	1930
3	26 4,4'-DDD	1.05e6	8.84e4	1.56	NO	1.12	0.998	39.20	39.20	1.000	1.000	NO	53000		290	53000
4	27 4,4'-DDT	1.55e5	8.71e4	1.54	NO	1.13	0.998	40.26	40.25	1.000	1.000	NO	7880		325	7880
5	36 13C6-Lindane (gamma)	4.89e4	2.52e5	0.92	NO	0.201	0.998	26.50	26.53	1.019	1.018	NO	4840	96.5	246	
6	40 13C12-Aldrin	3.06e4	2.52e5	1.62	NO	0.130	0.998	30.84	30.76	1.182	1.185	NO	4660	92.9	161	
7	41 13C10-Oxychlorane	5.36e3	2.52e5	1.43	NO	0.0314	0.998	33.44	33.35	1.281	1.285	NO	3390	67.6	670	

Dataset: U:\VG11.PRO\Results\200201K2\200201K2-6.qld

Last Altered: Monday, February 03, 2020 11:12:24 Pacific Standard Time

Printed: Monday, February 03, 2020 11:16:52 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_6, Date: 01-Feb-2020, Time: 17:59:16, ID: 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19, Description: PDI-141RAB-10-17.7-191107

	#-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...	6.10e3	2.52e5	1.61	NO	0.0281	0.998	35.14	35.06	1.347	1.350	NO	4310	86.0	748	
2	44 13C10-trans-Nonachlor	7.58e3	2.52e5	1.51	NO	0.0330	0.998	35.33	35.25	1.354	1.357	NO	4560	91.1	637	
3	46 13C12-2,4'-DDE	1.78e5	2.52e5	1.62	NO	0.765	0.998	35.78	35.77	0.995	0.995	NO	4610	92.0	165	
4	47 13C12-4,4'-DDE	1.29e5	2.52e5	1.90	NO	0.556	0.998	36.86	36.84	1.025	1.025	NO	4600	91.9	227	
5	48 13C12-Dieldrin	1.63e4	2.52e5	1.86	NO	0.0759	0.998	37.37	37.28	1.037	1.040	NO	4260	85.1	318	
6	50 13C10-cis-Nonachlor	7.97e3	2.52e5	1.62	NO	0.0389	0.998	39.07	38.97	1.084	1.087	NO	4070	81.2	621	
7	52 13C12-2,4'-DDD	4.21e4	2.52e5	1.82	NO	0.754	0.998	37.94	37.94	1.457	1.457	NO	1110	22.1	126	
8	53 13C12-2,4'-DDT	1.12e5	2.52e5	1.85	NO	0.519	0.998	39.06	39.06	1.501	1.501	NO	4270	85.2	183	
9	54 13C12-4,4'-DDD	8.84e4	2.52e5	1.66	NO	0.662	0.998	39.18	39.18	1.505	1.505	NO	2650	52.9	143	
10	55 13C12-4,4'-DDT	8.71e4	2.52e5	1.77	NO	0.419	0.998	40.25	40.24	1.546	1.546	NO	4120	82.3	226	
11	62 13C-PCB-15	2.52e5	2.52e5	1.59	NO	1.00	0.998	25.96	26.03	1.000	1.000	NO	5010	100	73.4	

Dataset: U:\VG11.PRO\Results\200201K2\200201K2-6.qld

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Printed: Monday, February 03, 2020 10:51:03 Pacific Standard Time

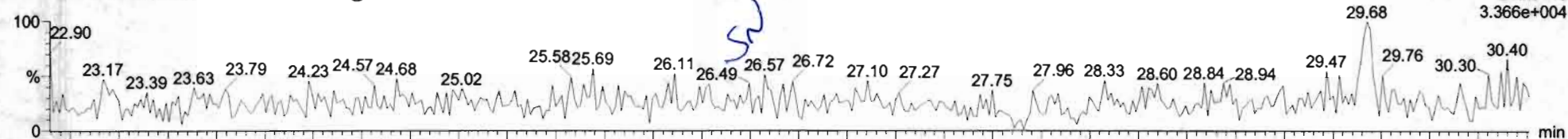
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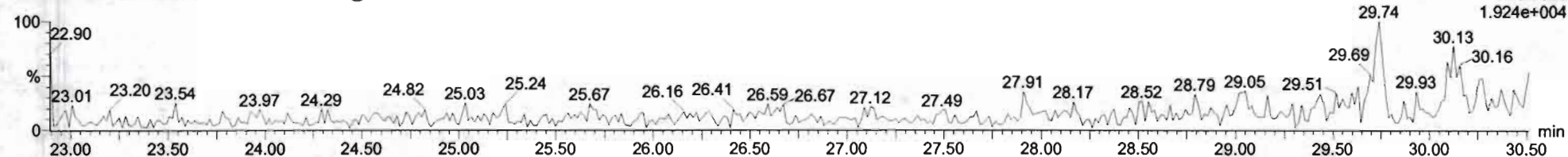
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BHC Totals

200201K2_6
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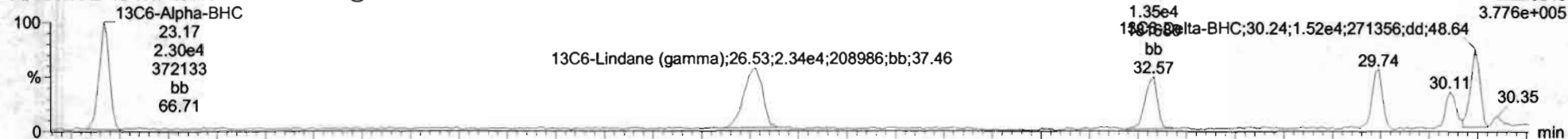


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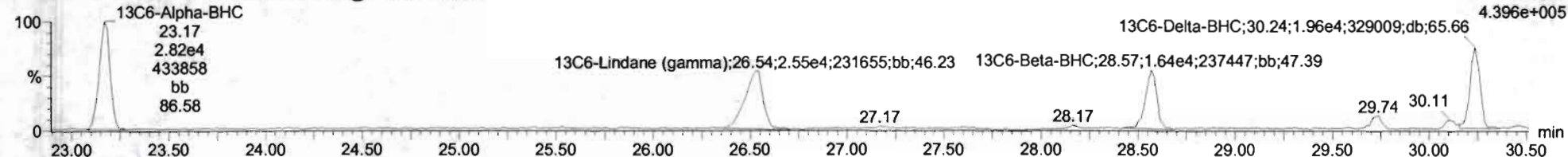


BHC-isotopes

200201K2_6
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200201K2_6
PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-6.qld

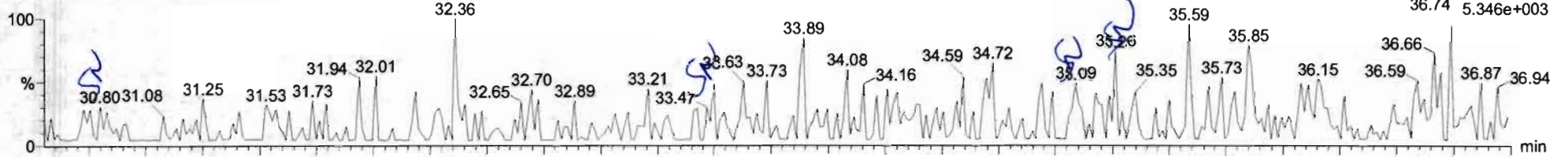
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Aldrin-EI

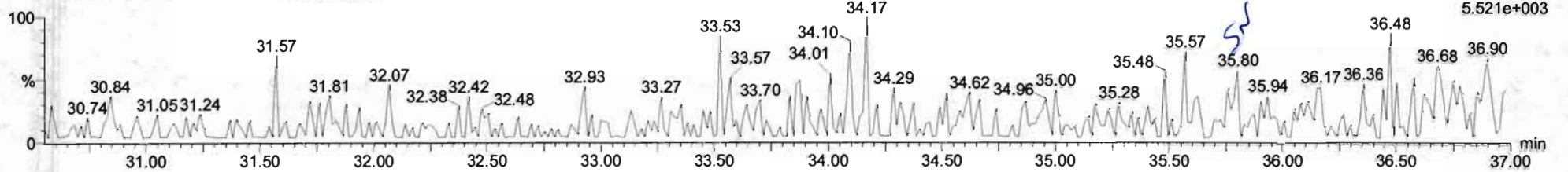
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F3:Voltage SIR,EI+
262.8569
36.74 5.346e+003



200201K2_6
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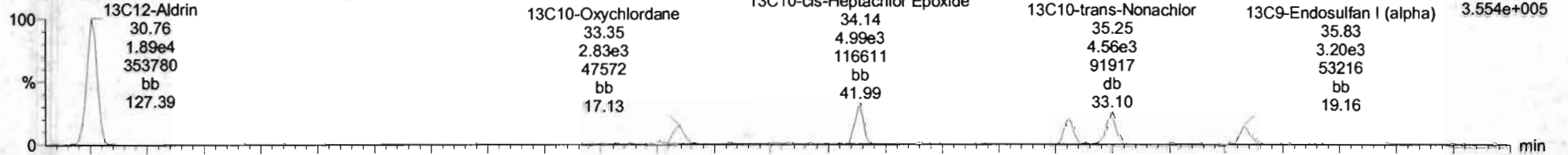
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5.521e+003



Aldrin-EI-isotopes

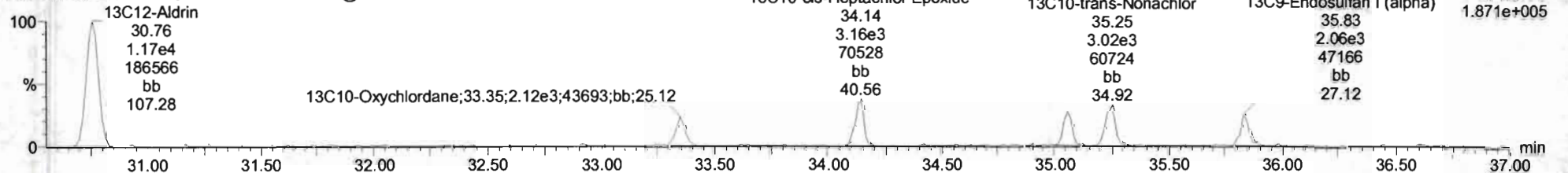
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F3:Voltage SIR,EI+
269.8804
3.554e+005

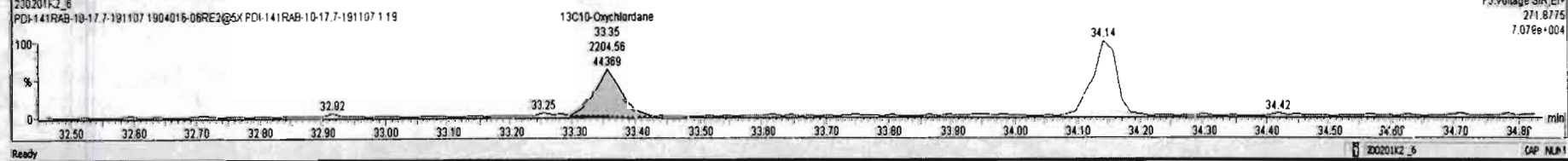
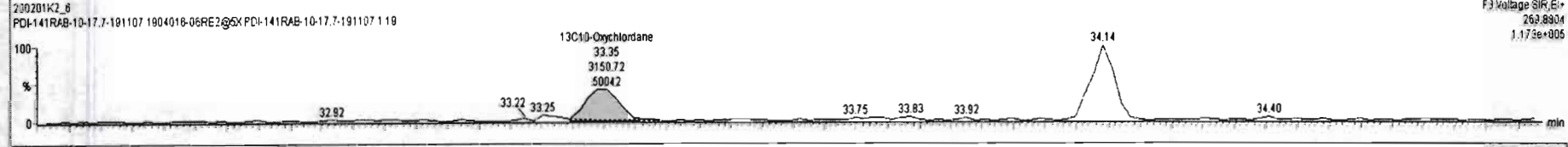
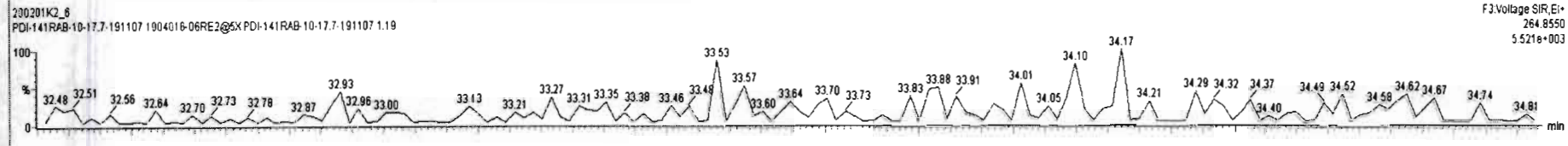
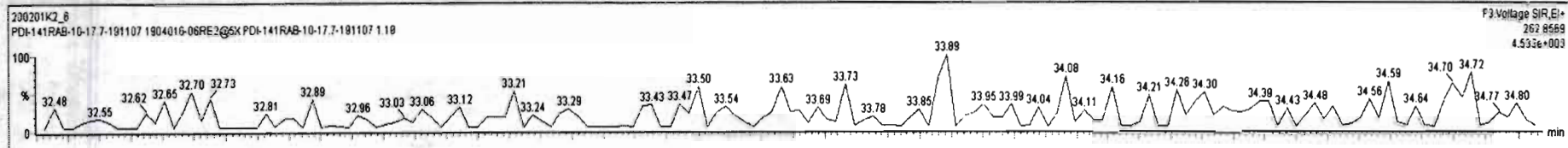


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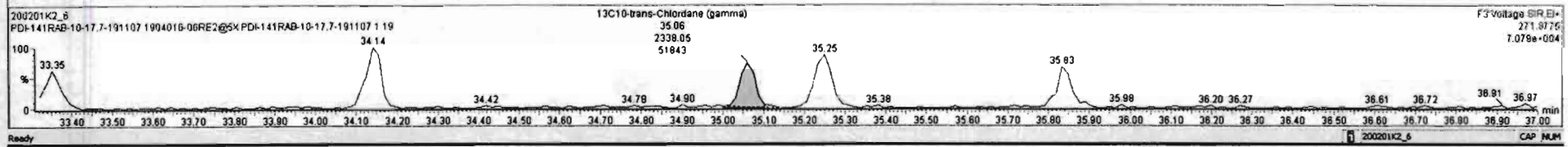
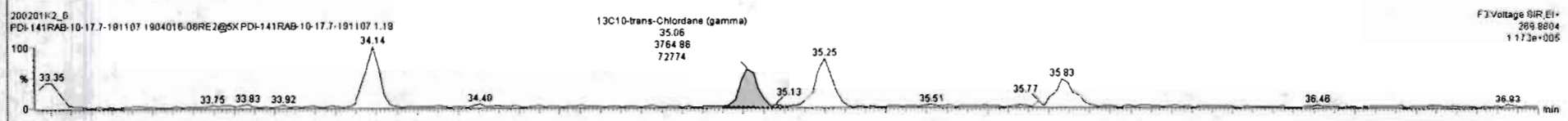
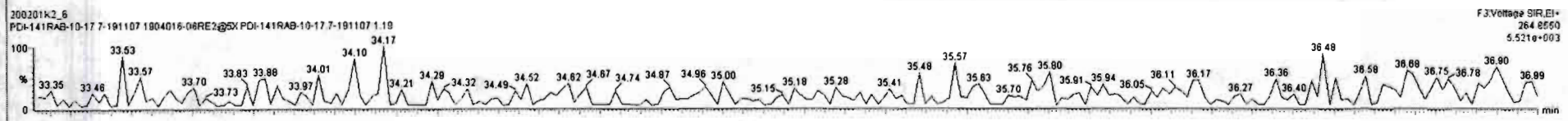
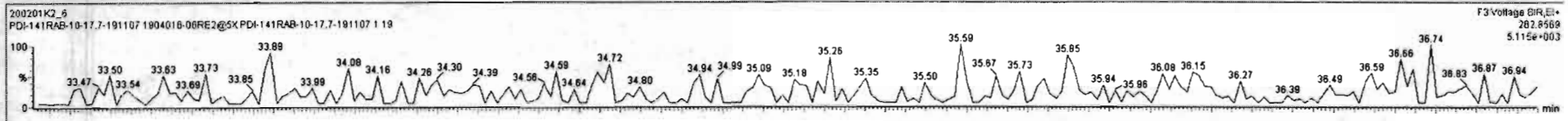
F3:Voltage SIR,EI+
271.8775
1.871e+005



#	Name	Resp	IS Resp	ISF	RA	ivY	RRF	wtVcl	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	2.64e3	2.46e5	33	0.30	YES	0.0339	0.999	9.98	10.00	1.001	1.000	NO	15900		379	6510
2	Hexachlorobenzene	4.17e3	1.38e5	34	1.25	NO	0.9969	0.998	22.88	22.68	1.001	1.001	NO	152		5.56	152
3	Alpha-BHC		5.12e4	35		NO	0.8617	0.999	23.21			1.002	YES				187
4	Lindane (gamma-BHC)		4.89e4	36		NO	0.8690	0.998	26.58			1.001	YES				353
5	Beta-BHC		2.99e4	37		NO	1.0173	0.998	26.59			1.000	YES				328
6	Delta-BHC		3.48e4	38		NO	0.9521	0.999	30.26			1.001	YES				226
7	Heptachlor		2.58e4	39		NO	1.0787	0.999	26.68			1.001	YES				48.9
8	4,4'-DDMU	3.58e3	3.48e4	38		NO	1.2843	0.998	30.16	30.14	0.997	0.997	NO	409		246	0.000
9	Aldrin		3.06e4	40		NO	1.1111	0.998	30.79			1.001	YES				70.6
10	Chrychlorane		5.39e3	41		NO	1.0938	0.999	33.37			1.001	YES				463
11	cis-Heptachlor Epoxide		8.15e3	42		NO	1.1318	0.999	34.16			1.001	YES				209
12	trans-Heptachlor Epoxide		8.15e3	42		NO	0.2603	0.998	34.65			1.015	YES				907
13	trans-Chlordane (gamm...		6.03e3	43		NO	1.1780	0.998	35.08			1.001	YES				330
14	trans-Nonachlor		7.58e3	44		NO	1.0766	0.998	35.27			1.001	YES				273
15	cis-Chlordane		7.58e3	44		NO	1.1090	0.998	35.75			1.014	YES				265
16	Endosulfen I (alpha)		5.27e3	45		NO	1.1552	0.998	35.85			1.001	YES				445
17	4,4'-DDMU	8.95e4	1.78e5	46	3.02	NO	0.6758	0.998	35.57	35.56	0.994	0.994	NO	3730		328	3730



#	Name	Resp	IS Resp	ISL	RA	nHy	RRF	wtAvt	PredRT	RT	RRT	PredRRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 Hexachlorobutadiene	2.84e3	2.46e5	33	0.30	YES	0.0338	0.998	9.98	10.00	1.001	1.000	NO	15900		379	6510
2	2 Hexachlorobenzene	4.17e3	1.38e5	34	1.25	NO	0.9969	0.998	22.68	22.68	1.001	1.001	NO	152		5.56	152
3	3 Alpha-BHC		5.12e4	35		NO	0.8617	0.998	23.21			1.002	YES				187
4	4 Lindane (gamma-BHC)		4.89e4	36		NO	0.8690	0.998	26.56			1.001	YES				353
5	5 Beta-BHC		2.99e4	37		NO	1.0173	0.998	28.59			1.000	YES				328
6	6 Delta-BHC		3.48e4	38		NO	0.9521	0.998	30.26			1.001	YES				226
7	7 Heptachlor		2.59e4	39		NO	1.0787	0.998	28.88			1.001	YES				48.9
8	8 4,4'-DDNU	3.59e3	3.48e4	38		NO	1.2643	0.998	30.16	30.14	0.997	0.997	NO	408		246	0.000
9	9 Aldrin		3.06e4	40		NO	1.1111	0.998	30.79			1.001	YES				70.8
10	10 Chrychlorane		5.36e3	41		NO	1.0839	0.998	33.37			1.001	YES				483
11	11 cis-Heptachlor Epoxide		8.15e3	42		NO	1.1318	0.998	34.16			1.001	YES				209
12	12 trans-Heptachlor Epoxide		8.15e3	42		NO	0.2603	0.998	34.65			1.015	YES				907
13	13 trans-Chlordane (gamma)		8.10e3	43		NO	1.1790	0.998	35.08			1.001	YES				323
14	14 trans-Nonachlor		7.58e3	44		NO	1.0756	0.998	35.27			1.001	YES				273
15	15 cis-Chlordane		7.58e3	44		NO	1.1080	0.998	35.75			1.014	YES				265
16	16 Endosulfen I (alpha)		5.27e3	45		NO	1.1552	0.998	35.85			1.001	YES				445
17	17 4,4'-DDMU	8.95e4	1.78e5	46	3.02	NO	0.6758	0.998	35.57	35.56	0.994	0.994	NO	3730		328	3730



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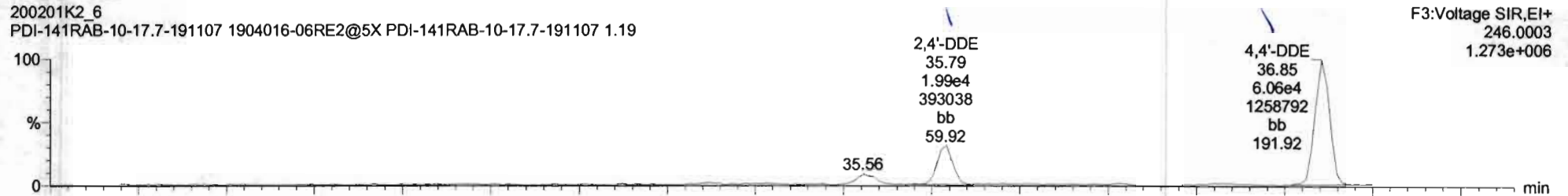
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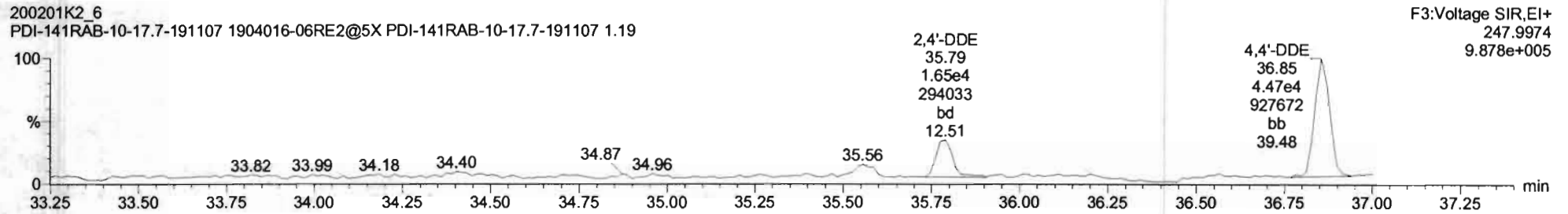
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DDMU-DDE

200201K2_6
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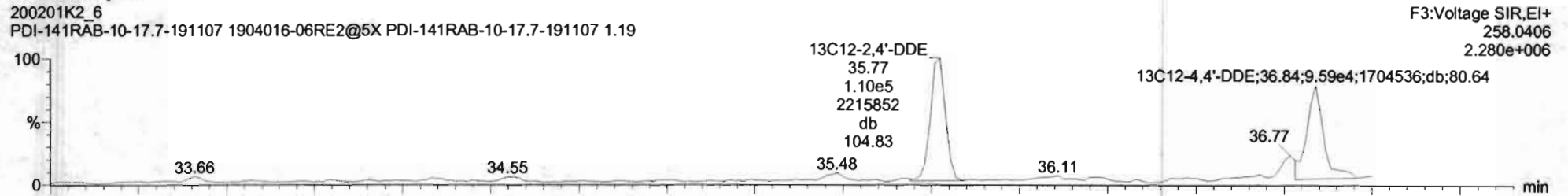


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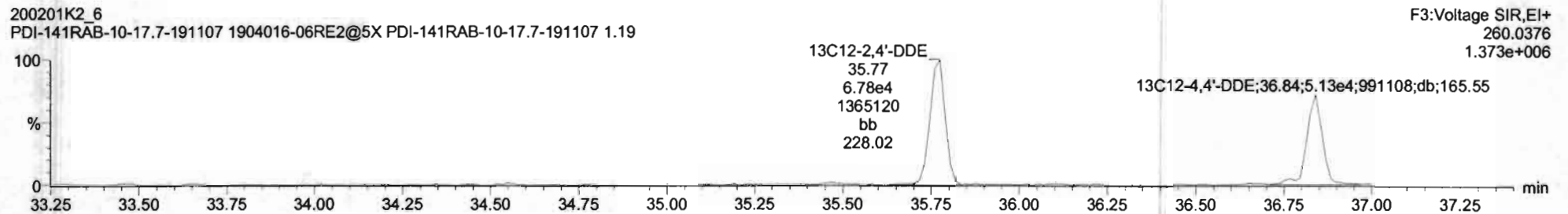


DDE-isotopes

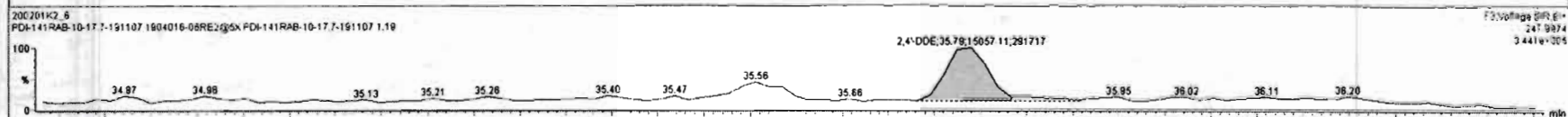
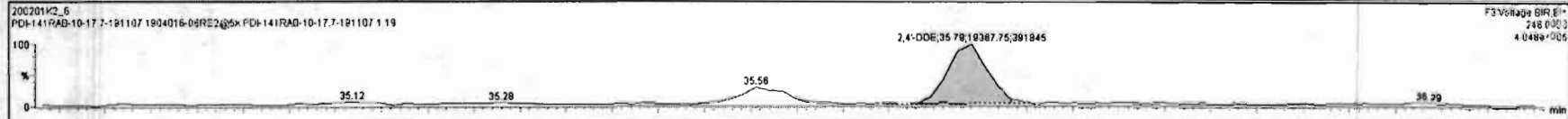
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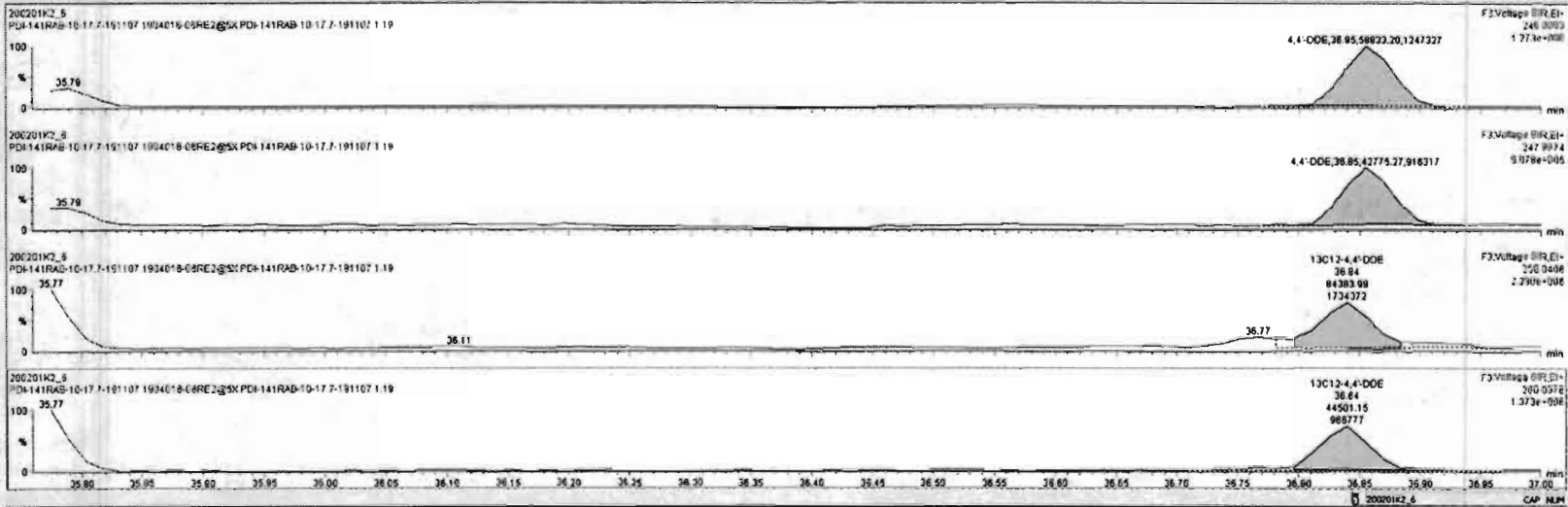
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PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19



#	Name	Resp	IS Resp	ISF	RA	nV	RPF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Cont.	%Rec	DL	BMP
18	2,4'-DOE	3.44e4	1.78e5	46	1.28	NO	0.9841	0.998	35.79	35.79	1.000	1.000	NO			107	887
19	4,4'-DOE	1.05e5	1.47e5	47	1.35	NO	0.9981	0.998	36.86	36.85	1.000	1.000	NO	3600		144	3600
20	Endrin		1.83e4	48		NO	1.0834	0.998	37.30			1.000	YES				299
21	Endrin		1.23e4	49		NO	1.0566	0.998	38.69			1.000	YES				288
22	cis-Nonachlor		7.87e3	50		NO	1.0772	0.998	38.99			1.000	YES				400
23	Endosulfan I (beta)		2.84e3	51		NO	1.1102	0.998	39.72			1.000	YES				1170
24	2,4'-DDE	1.57e5	4.21e4	52	1.55	NO	1.0482	0.998	37.84	37.95	1.000	1.000	NO	17800		760	17800
25	2,4'-DDE	4.87e4	1.12e5	53	1.87	NO	1.0290	0.998	39.00	39.00	1.000	1.000	NO	2120		293	2120
26	2,4'-DDE	1.05e5	8.84e4	54	1.56	NO	1.1242	0.998	39.20	39.20	1.000	1.000	NO	53000		290	53000
27	2,4'-DDE	1.80e5	9.13e4	55	1.48	NO	1.1336	0.998	40.28	40.25	1.000	1.000	NO	7780		332	7780
28	Endosulfan Sulfate	1.15e3	3.44e3	56	1.25	NO	0.9871	0.998	41.44	41.36	0.998	1.000	NO	1700		2330	1700
29	4,4'-Methoxychlor	2.17e5	8.50e5	57	0.81	NO	1.2669	0.998	43.30	43.37	1.002	1.000	NO	10100		6980	10100
30	Heptachlor	1.41e4	3.49e4	58	0.98	YES	1.0435	0.998	43.86	43.91	1.001	1.000	NO	1950		777	1580
31	Endrin Aldehyde		4.59e4	59		NO	1.0582	0.998	40.84			1.000	YES				1970
32	Endrin Ketone	6.01e4	1.31e5	60	0.85	NO	0.9741	0.998	44.19	44.13	0.999	1.000	NO	22600		750	22600
33	13C4-Hexachlorobutadiene	2.46e5	2.52e5	62	1.28	NO	0.1287	0.998	8.98	8.98	0.383	0.383	NO	38800	77.1	45.4	
34	13C6-Hexachlorobenzene	1.38e5	2.52e5	62	1.31	NO	0.6741	0.998	22.70	22.88	0.871	0.872	NO	4050	80.8	7.48	



#	Name	Resp	IS Resp	ISF	RA	ISV	RPF	stdDev	Pred RT	RT	Pred PRT	Check PRT	Conc.	%Rec	DL	EMPC
32	Enran-Ketone	8.01e4	1.31e5	80	0.85	NO	0.9741	0.998	44.19	44.13	0.998	1.000	NO	23600	750	23600
33	13C4-Hevachlorobutadi	2.46e5	2.52e5	62	1.28	NO	0.1267	0.998	9.98	9.98	0.383	0.383	NO	38600	77.1	46.4
34	13C6-Hevachlorobenz.	1.36e5	2.52e5	62	1.31	NO	0.8741	0.998	22.70	22.66	0.871	0.872	NO	4050	80.9	7.48
35	13C8-Alpha-BHC	5.17e4	2.52e5	62	0.81	NO	0.2548	0.998	23.23	23.17	0.890	0.892	NO	3990	79.6	194
36	13C8-Lindane (gamma)	4.88e4	2.52e5	62	0.82	NO	0.2007	0.998	26.50	26.53	1.019	1.018	NO	4840	96.5	246
37	13C6-Beta-BHC	2.99e4	2.52e5	62	0.83	NO	0.1546	0.998	26.58	26.58	1.098	1.099	NO	3030	76.5	319
38	13C8-Delta-BHC	3.48e4	2.52e5	62	0.77	NO	0.1835	0.998	30.29	30.34	1.162	1.164	NO	3770	75.3	289
39	13C10-Heptachlor	2.95e4	2.52e5	62	1.31	NO	0.1027	0.998	28.72	28.85	1.101	1.104	NO	4360	87.1	78.8
40	13C12-Albin	3.05e4	2.52e5	62	1.62	NO	0.1303	0.998	30.84	30.78	1.182	1.185	NO	4850	92.9	181
41	13C10-Orychardene	5.36e4	2.52e5	62	1.43	NO	0.0314	0.998	33.44	33.35	1.281	1.286	NO	3380	87.6	670
42	13C10-cis-Heptachlor	8.15e4	2.52e5	62	1.58	NO	0.0404	0.998	34.23	34.14	1.312	1.315	NO	4000	79.8	520
43	13C10-trans-Chlordane	6.10e4	2.52e5	62	1.61	NO	0.0281	0.998	35.14	35.06	1.347	1.350	NO	4310	86.0	748
44	13C10-trans-Norachlor	7.59e4	2.52e5	62	1.51	NO	0.0330	0.998	35.33	35.25	1.354	1.367	NO	4580	91.1	637
45	13C8-Endosulfen I (ep	5.27e4	2.52e5	62	1.55	NO	0.0219	0.998	35.81	35.83	1.377	1.380	NO	4770	95.2	959
46	13C12-4'-DOE	1.78e5	2.52e5	62	1.82	NO	0.7653	0.998	35.78	35.77	0.995	0.995	NO	4610	92.0	185
47	13C12-4'-DOE	1.29e5	2.52e5	62	1.80	NO	0.6588	0.998	36.86	36.84	1.025	1.025	NO	4600	91.8	227
48	13C12-Osalin	1.85e4	2.52e5	62	1.88	NO	0.0758	0.998	37.37	37.28	1.037	1.040	NO	4280	85.1	318



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-6.qld

Last Altered: Monday, February 03, 2020 10:49:32 Pacific Standard Time

Printed: Monday, February 03, 2020 10:51:03 Pacific Standard Time

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Dieldrin-Ell

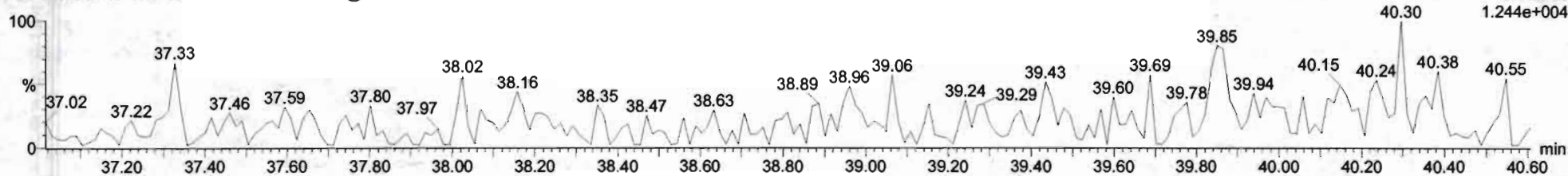
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PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19

F4:Voltage SIR,EI+
262.8569
1.705e+005



200201K2_6
PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19

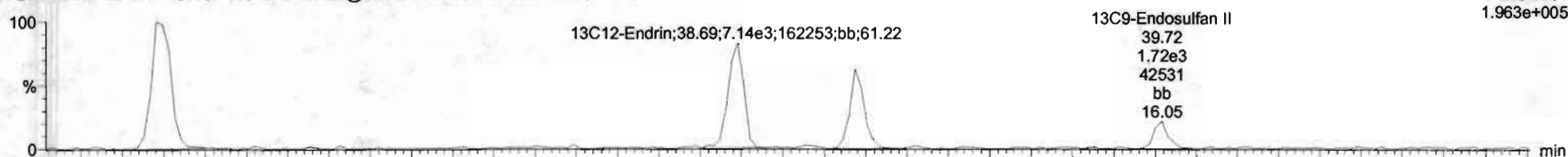
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264.8550
1.244e+004



Dieldrin-Ell-isotopes

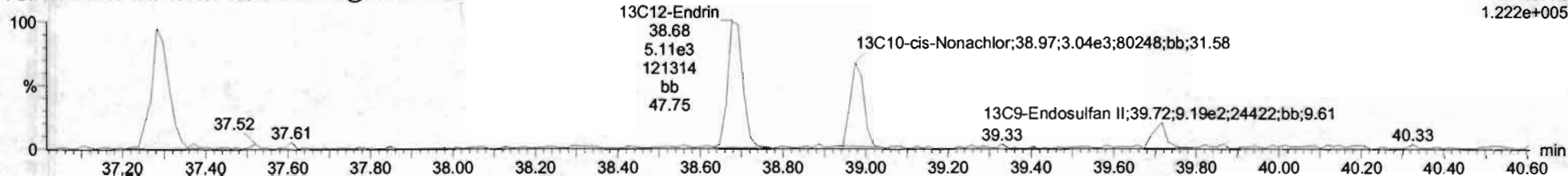
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F4:Voltage SIR,EI+
269.8804
1.963e+005



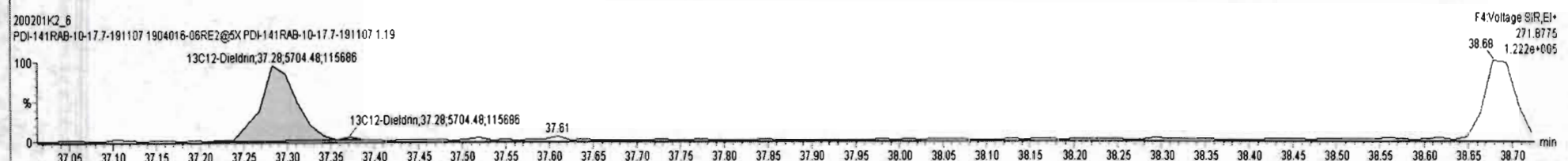
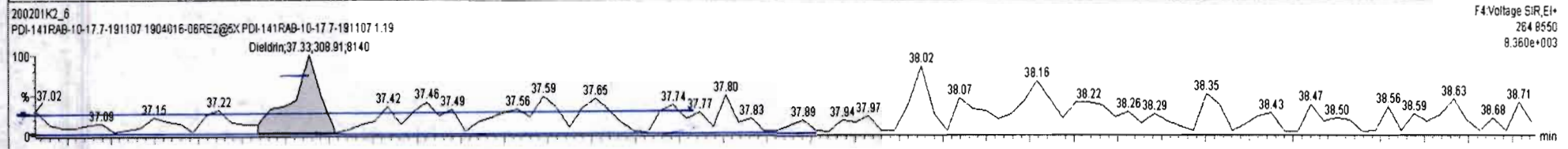
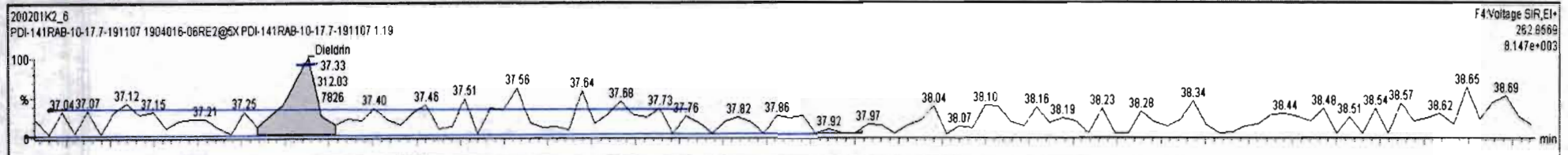
200201K2_6
PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19

F4:Voltage SIR,EI+
271.8775
1.222e+005

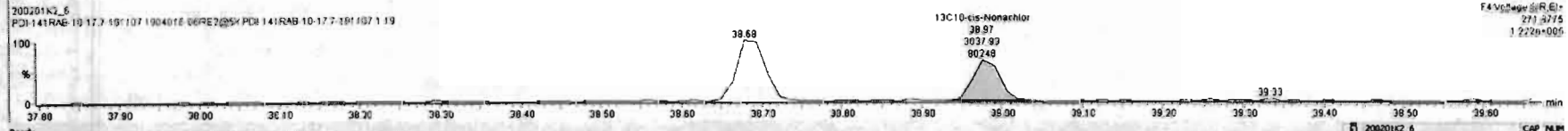
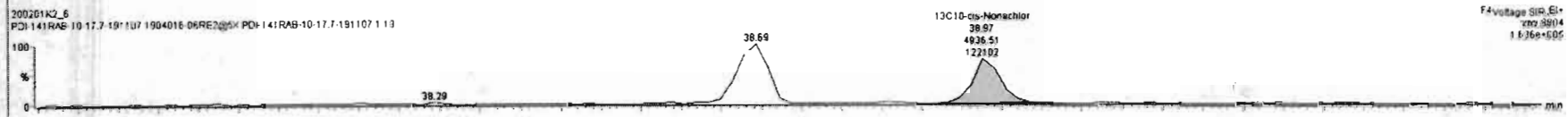
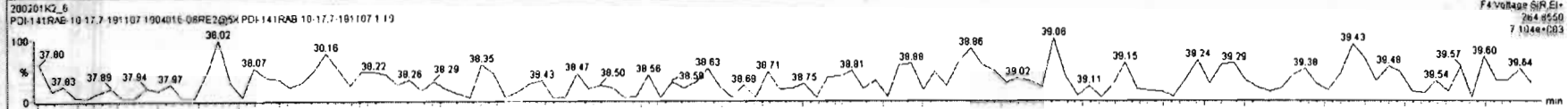
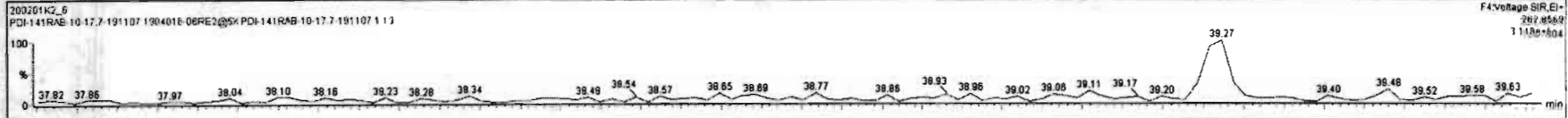


#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wtVol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	BMP
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20	Dieldrin	6.21e2	1.63e4	48	1.01	YES	1.0934	0.998	37.30	37.33	1.001	1.000	NO	175		259	144
21	Endrin		1.23e4	49		NO	1.0566	0.998	38.69			1.000	YES				269
22	cis-Nonachlor		7.97e3	50		NO	1.0772	0.998	38.99			1.000	YES				400
23	Endosulfan II (beta)		2.64e3	51		NO	1.1102	0.998	39.72			1.000	YES				1170
24	2,4'-DDD	1.57e5	4.21e4	52	1.55	NO	1.0482	0.998	37.94	37.95	1.000	1.000	NO	17800		760	17800
25	2,4'-DDT	4.87e4	1.12e5	53	1.67	NO	1.0290	0.998	38.08	38.08	1.000	1.000	NO	2120		293	2120
26	4,4'-DDD	1.05e6	8.84e4	54	1.56	NO	1.1242	0.998	39.20	39.20	1.000	1.000	NO	53000		290	53000
27	4,4'-DDT	1.60e5	9.13e4	55	1.49	NO	1.1336	0.998	40.26	40.25	1.000	1.000	NO	7760		322	7760
28	Endosulfan Sulfate	1.15e3	3.44e3	56	1.25	NO	0.9871	0.998	41.44	41.36	0.998	1.000	NO	1700		2320	1700
29	4,4'-Methoxychlor	2.17e5	8.50e5	57	0.61	NO	1.2688	0.998	43.30	43.37	1.002	1.000	NO	10100		6390	10100
30	Mirex	1.41e4	3.48e4	58	0.98	YES	1.0435	0.998	43.86	43.91	1.001	1.000	NO	1950		777	1580
31	Endrin Aldehyde		4.59e4	59		NO	1.0582	0.998	40.84			1.000	YES				1970
32	Endrin Ketone	6.01e4	1.31e5	60	0.85	NO	0.9741	0.998	44.19	44.13	0.999	1.000	NO	23600		750	23600
33	13C4-Hexachlorobutadi...	2.46e5	2.52e5	62	1.28	NO	0.1267	0.998	9.96	9.98	0.383	0.383	NO	39600	77.1	46.4	
34	13C6-Hexachlorobenz...	1.38e5	2.52e5	62	1.31	NO	0.6741	0.998	22.70	22.66	0.871	0.872	NO	4050	80.9	7.49	
35	13C6-Alpha-BHC	5.12e4	2.52e5	62	0.81	NO	0.2548	0.998	23.23	23.17	0.890	0.892	NO	3990	79.6	194	
36	13C6-Lindane (gamma)	4.89e4	2.52e5	62	0.92	NO	0.2007	0.998	26.50	26.53	1.019	1.018	NO	4840	96.5	246	



#	Name	Resp	IS Resp	ISF	RA	nly	RRF	wtAvr	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
20	Dieldrin	6.21e2	1.63e4	48	1.01	YES	1.0934	0.998	37.30	37.33	1.001	1.000	NO	175	259	144	
21	Endrin	1.23e4	49		NO		1.0566	0.998	38.69			1.000	YES			289	
22	cis-Nonachlor	7.87e3	30		NO		1.0772	0.998	38.98			1.000	YES			450	
23	Endosulfan K (beta)	2.64e3	51		NO		1.1102	0.998	39.72			1.000	YES			1170	
24	2,4'-DDO	1.57e5	4.21e4	52	1.55	NO	1.0482	0.998	37.94	37.95	1.000	1.000	NO	17800	780	17800	
25	2,4'-DDE	4.87e4	1.12e5	33	1.87	NO	1.0290	0.998	38.08	38.08	1.000	1.000	NO	2120	283	2120	
26	4,4'-DDO	1.05e6	8.84e4	34	1.28	NO	1.1242	0.998	39.20	39.20	1.000	1.000	NO	53000	280	53000	
27	4,4'-DDE	1.00e5	8.13e4	55	1.49	NO	1.1338	0.998	40.28	40.25	1.000	1.000	NO	7780	322	7780	
28	Endosulfan Sulfate	1.15e3	3.44e3	58	1.25	NO	0.9871	0.999	41.44	41.36	0.998	1.000	NO	1700	2320	1700	
29	4'-Methoxychlor	2.17e5	8.50e5	57	0.81	NO	1.2659	0.999	43.30	43.37	1.002	1.000	NO	10100	6390	10100	
30	Mirex	1.41e4	3.48e4	59	0.90	YES	1.0435	0.999	43.06	43.91	1.001	1.000	NO	1950	777	1560	
31	Endrin Alderhyde	4.59e4	59		NO		1.0592	0.998	40.84			1.000	YES			1970	
32	Endrin Ketone	6.01e4	1.31e5	60	0.85	NO	0.9741	0.998	44.19	44.13	0.999	1.000	NO	23600	750	23600	
33	13C4-Hexachlorobutadiene	2.46e5	2.52e6	62	1.28	NO	0.1267	0.998	8.96	9.98	0.982	0.983	NO	39800	77.1	46.4	
34	13C6-Hexachlorobenzene	1.38e5	2.52e6	62	1.31	NO	0.6741	0.998	22.70	22.66	0.871	0.872	NO	4050	80.9	7.49	
35	13C5-Alpha-BHC	5.12e4	2.52e6	62	0.81	NO	0.2548	0.998	23.23	23.17	0.980	0.982	NO	3990	79.6	194	
36	13C6-Lindane (gamma)	4.89e4	2.52e6	62	0.82	NO	0.2007	0.998	26.50	26.53	1.019	1.018	NO	4840	96.5	246	



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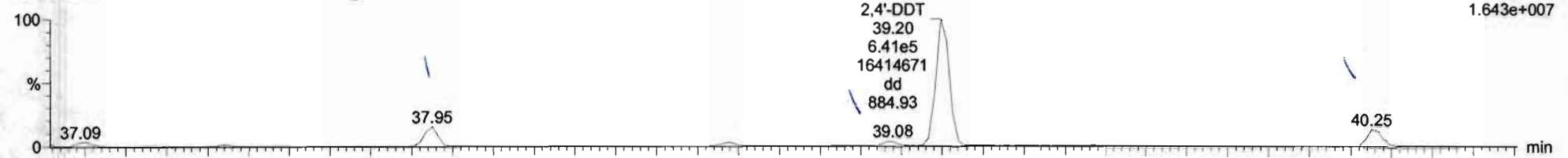
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DDD-DDT

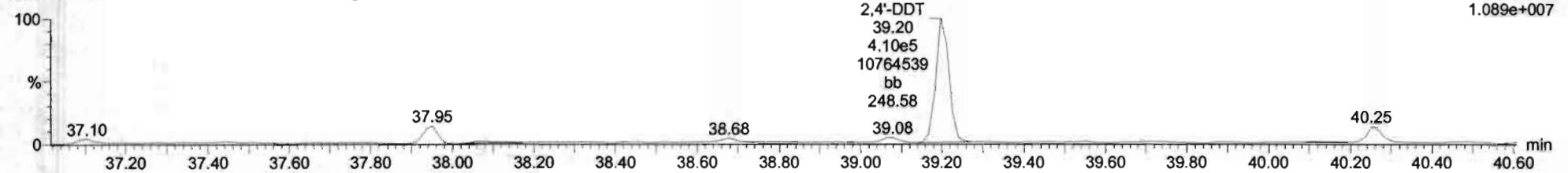
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PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19

F4:Voltage SIR,EI+
235.0081
1.643e+007



200201K2_6
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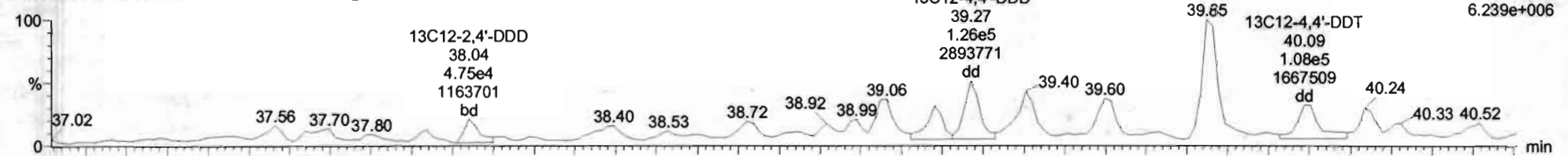
F4:Voltage SIR,EI+
237.0052
1.089e+007



DDD-DDT-isotopes

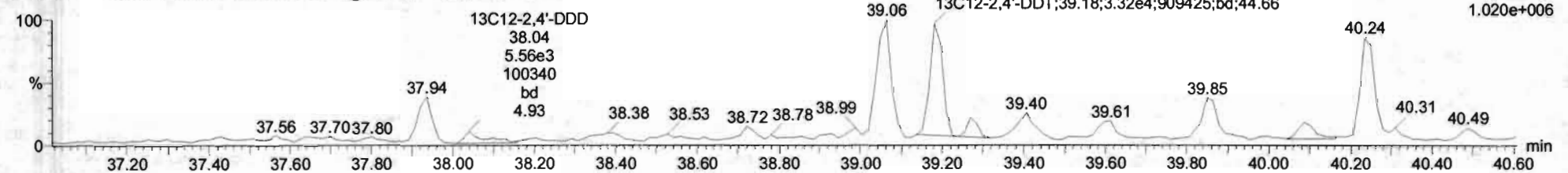
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F4:Voltage SIR,EI+
247.0484
6.239e+006

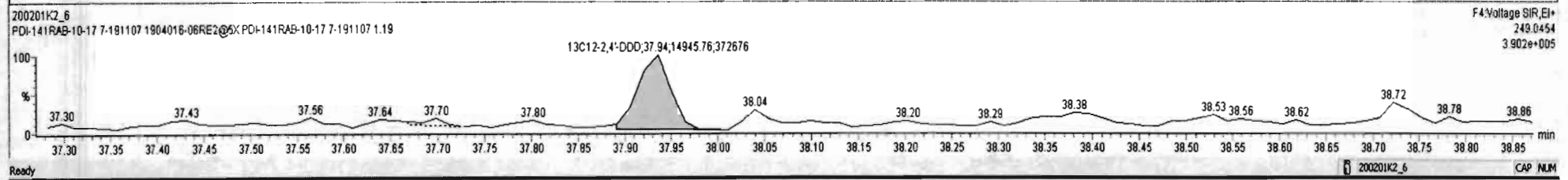
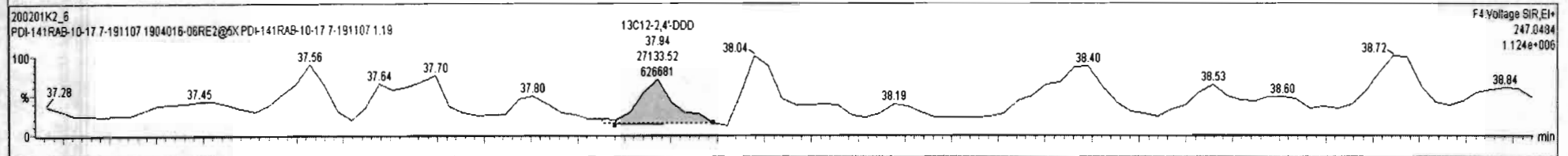
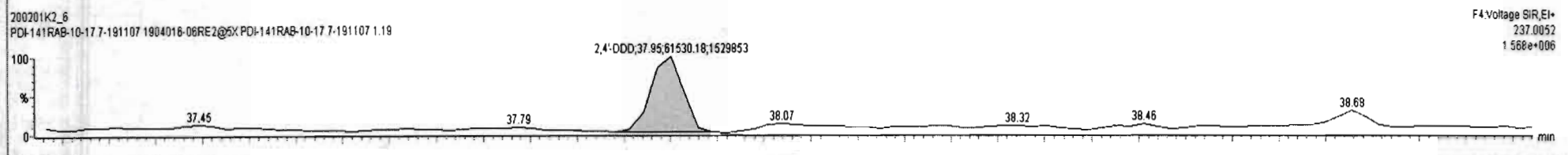
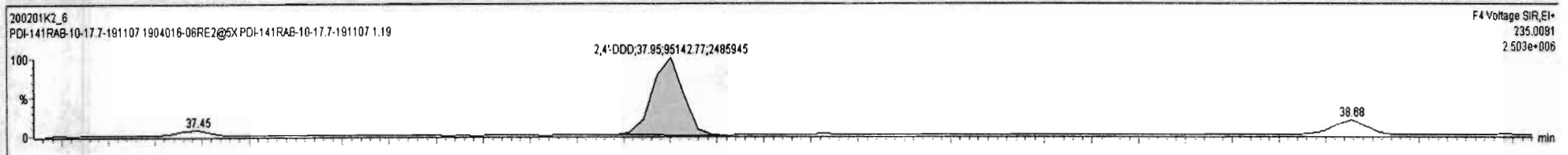


200201K2_6
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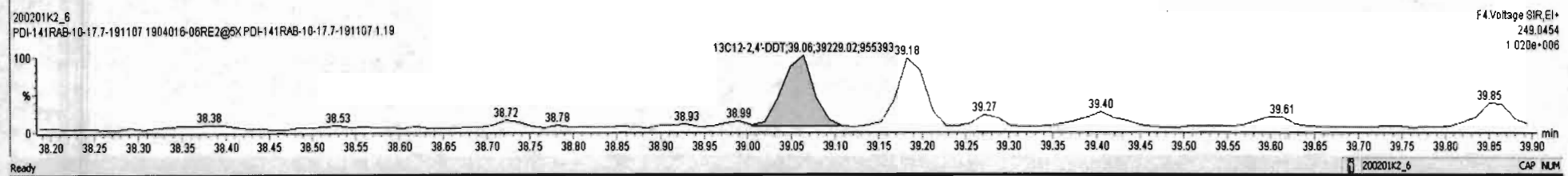
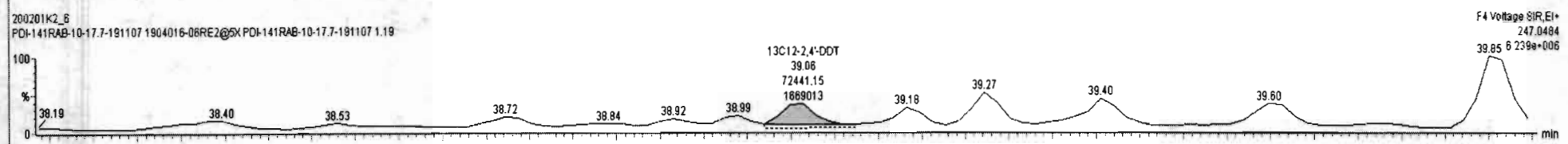
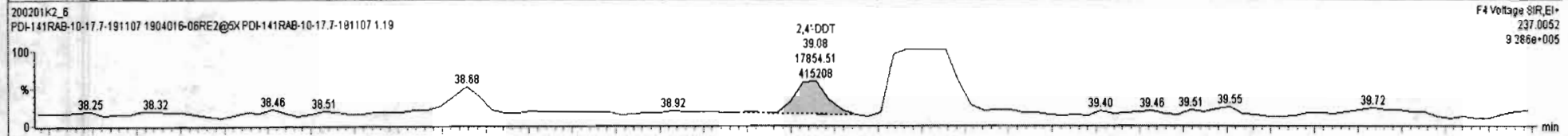
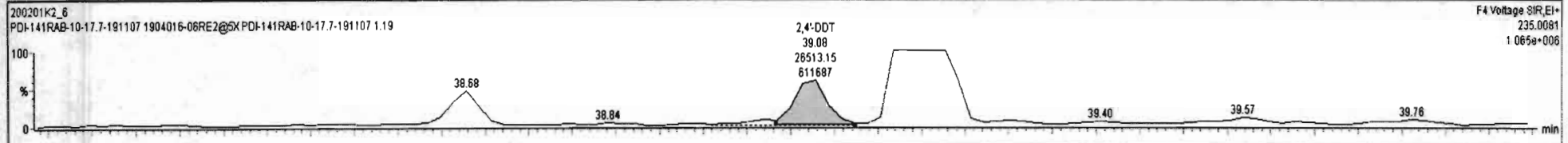
F4:Voltage SIR,EI+
249.0454
1.020e+006



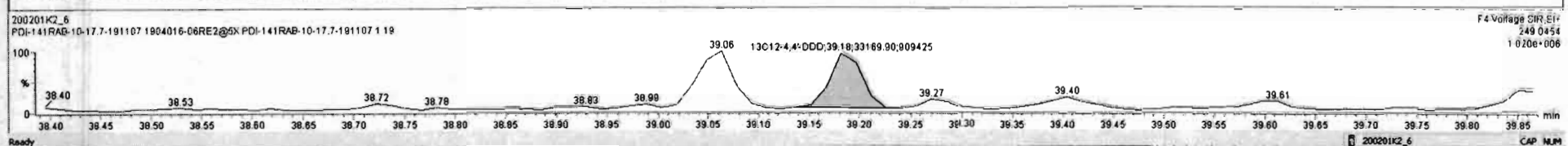
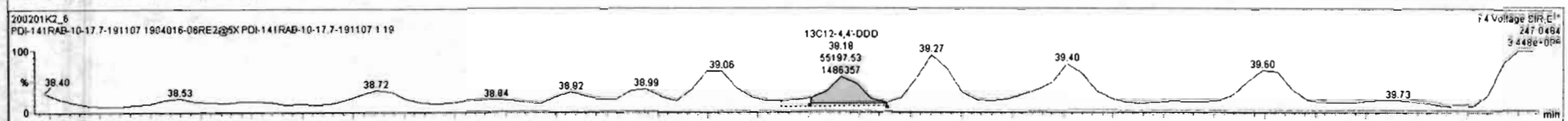
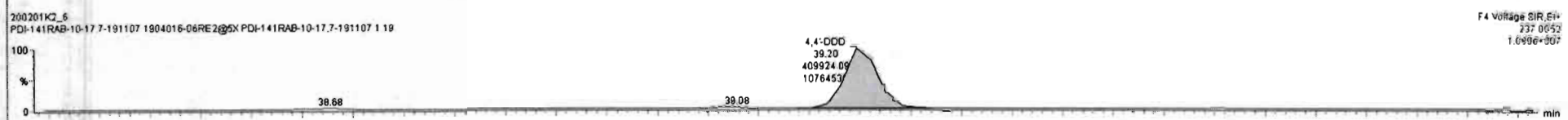
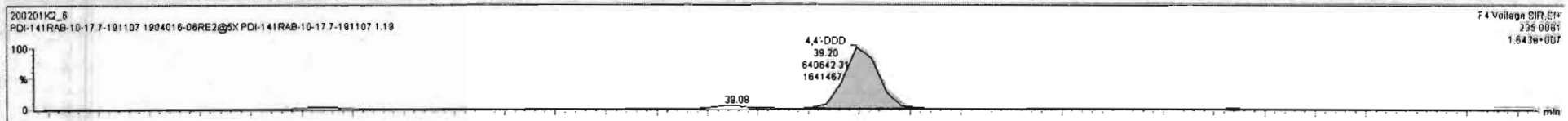
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20	Dieldrin	6.21e2	1.63e4	48	1.01	YES	1.0934	0.998	37.30	37.33	1.001	1.000	NO	175		258	144
21	Endrin		1.23e4	49		NO	1.0566	0.998	38.69			1.000	YES				289
22	cis-Nonachlor		7.97e3	50		NO	1.0772	0.998	38.99			1.000	YES				400
23	Endosulfan I (beta)		2.64e3	51		NO	1.1102	0.998	39.72			1.000	YES				1170
24	2,4-DDD	1.57e5	4.21e4	52	1.55	NO	1.0482	0.998	37.94	37.95	1.000	1.000	NO	17800		780	17800
25	2,4-DDT	4.87e4	1.12e5	53	1.67	NO	1.0290	0.998	39.08	39.08	1.000	1.000	NO	2120		293	2120
26	4,4'-DDD	1.05e6	8.84e4	54	1.56	NO	1.1242	0.998	39.20	39.20	1.000	1.000	NO	53000		290	53000
27	4,4'-DDT	1.80e5	9.13e4	55	1.49	NO	1.1336	0.998	40.26	40.25	1.000	1.000	NO	7760		322	7760
28	Endosulfan Sulfate	1.15e3	3.44e3	56	1.25	NO	0.9871	0.998	41.44	41.36	0.998	1.000	NO	1700		2320	1700
29	4,4'-Methoxychlor	2.17e5	8.50e5	57	0.81	NO	1.2688	0.998	43.30	43.37	1.002	1.000	NO	10100		6390	10100
30	Mirex	1.41e4	3.48e4	58	0.98	YES	1.0435	0.998	43.86	43.81	1.001	1.000	NO	1950		777	1590
31	Endrin Aldichide		4.59e4	59		NO	1.0582	0.998	40.84			1.000	YES				1970
32	Endrin Ketone	8.01e4	1.31e5	60	0.85	NO	0.9741	0.998	44.19	44.13	0.999	1.000	NO	23600		750	23600
33	13C4-Hexachlorobutadi...	2.46e5	2.52e5	62	1.28	NO	0.1267	0.998	9.96	9.98	0.383	0.383	NO	38600	77.1	46.4	
34	13C6-Hexachlorobenz...	1.38e5	2.52e5	62	1.31	NO	0.6741	0.998	22.70	22.86	0.871	0.872	NO	4050	80.9	7.48	
35	13C6-Alpha-BHC	5.12e4	2.52e5	62	0.81	NO	0.2548	0.998	23.23	23.17	0.890	0.892	NO	3990	79.6	194	
36	13C6-Lindane (gamma)	4.89e4	2.52e5	62	0.92	NO	0.2007	0.998	26.50	26.53	1.019	1.018	NO	4840	96.5	246	

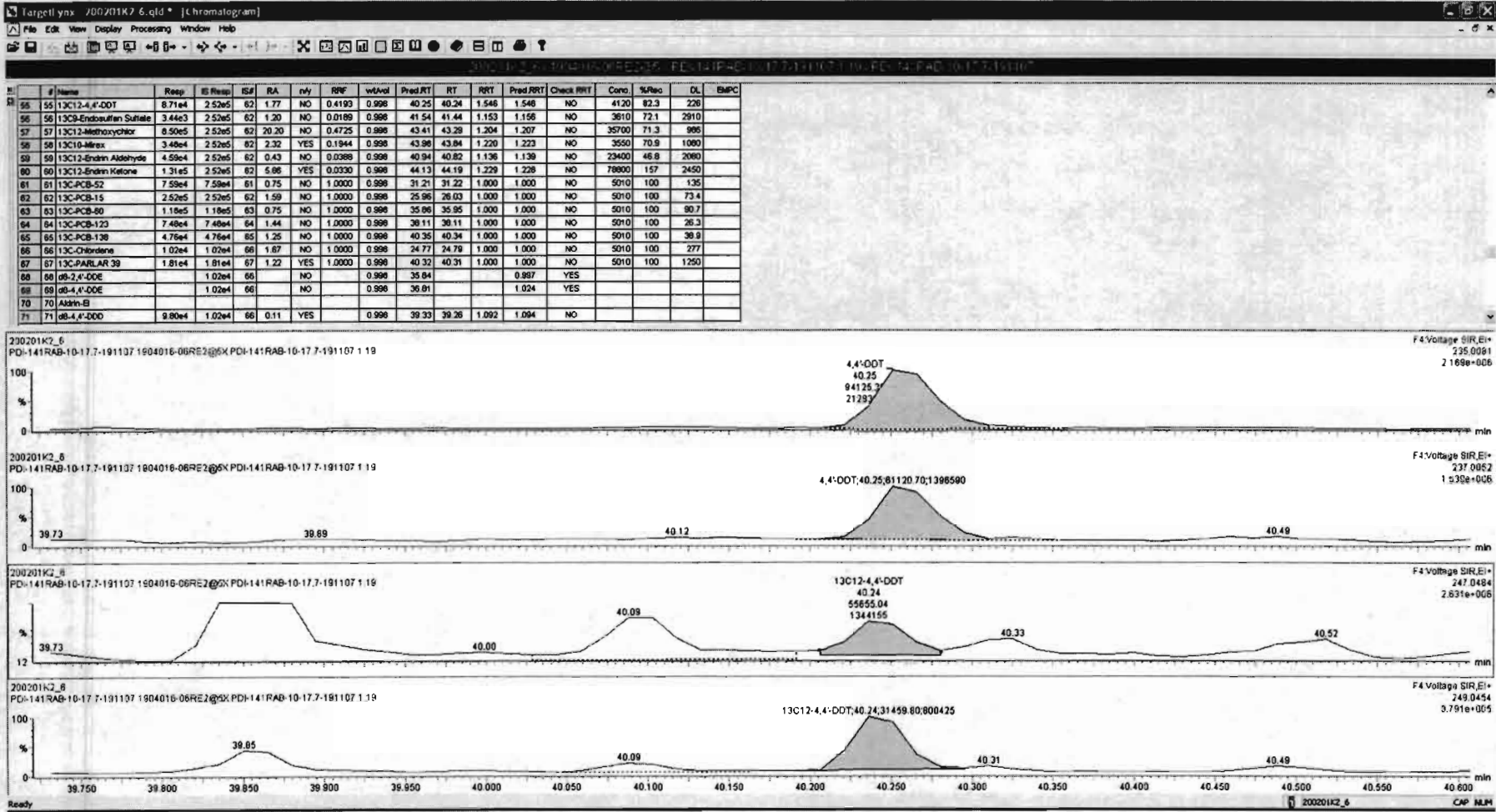


#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
20	Dieldrin	6.21e2	1.83e4	48	1.01	YES	1.0934	0.998	37.30	37.33	1.001	1.000	NO	175		259	144
21	Endrin		1.23e4	49		NO	1.0566	0.998	38.69			1.000	YES				289
22	cis-Nonachlor		7.97e3	50		NO	1.0772	0.998	38.99			1.000	YES				400
23	Endosulfan II (beta)		2.84e3	51		NO	1.1102	0.998	39.72			1.000	YES				1170
24	2,4'-DDD	1.57e5	4.21e4	52	1.55	NO	1.0482	0.998	37.94	37.95	1.000	1.000	NO	17800		760	17800
25	2,4'-DDT	4.44e4	1.12e5	53	1.48	NO	1.0290	0.998	39.06	39.08	1.000	1.000	NO	1930		293	1930
26	4,4'-DDD	1.05e6	8.84e4	54	1.56	NO	1.1242	0.998	39.20	39.20	1.000	1.000	NO	53000		280	53000
27	4,4'-DDT	1.60e5	9.13e4	55	1.49	NO	1.1336	0.998	40.26	40.25	1.000	1.000	NO	7760		322	7760
28	Endosulfan Sulfate	1.15e3	3.44e3	56	1.25	NO	0.9871	0.998	41.44	41.36	0.998	1.000	NO	1700		2320	1700
29	4,4'-Methoxychlor	2.17e5	8.50e5	57	0.81	NO	1.2668	0.998	43.30	43.37	1.002	1.000	NO	10100		6380	10100
30	Mirex	1.41e4	3.48e4	58	0.98	YES	1.0435	0.998	43.86	43.91	1.001	1.000	NO	1950		777	1580
31	Endrin Aldehyde		4.58e4	59		NO	1.0562	0.998	40.84			1.000	YES				1970
32	Endrin Ketone	6.01e4	1.31e5	60	0.65	NO	0.9741	0.998	44.19	44.13	0.999	1.000	NO	23600		750	23600
33	13C4-Hexachlorobutadi...	2.46e5	2.52e5	62	1.28	NO	0.1267	0.998	9.96	9.98	0.383	0.383	NO	38600	77.1		46.4
34	13C6-Hexachlorobenz...	1.30e5	2.52e5	62	1.31	NO	0.6741	0.998	22.70	22.66	0.871	0.872	NO	4050	80.9		7.49
35	13C6-Alpha-BHC	5.12e4	2.52e5	62	0.81	NO	0.2548	0.998	23.23	23.17	0.880	0.882	NO	3990	79.6		194
36	13C6-Lindane (gamma)	4.89e4	2.52e5	62	0.92	NO	0.2007	0.998	26.50	26.53	1.019	1.018	NO	4840	96.5		246



#	Name	Resp	IS Resp	IS#	RA	n/y	RF#	w/Out	Pred RT	RT	RPT	Pred RRT	Check RRT	Conc.	%Rec	DL	ExpC
20	Dieldrin	6.21e2	1.63e4	48	1.01	YES	1.0934	0.998	37.30	37.33	1.001	1.000	NO	175		259	144
21	Endrin		1.23e4	49		NO	1.0566	0.998	38.69			1.000	YES			289	
22	cis-Nonachlor		7.97e3	50		NO	1.0772	0.998	38.99			1.000	YES			400	
23	Endosulfan II (beta)		2.64e3	51		NO	1.1102	0.998	39.72			1.000	YES			1170	
24	2,4'-DDD	1.57e5	4.21e4	52	1.55	NO	1.0482	0.998	37.94	37.95	1.000	1.000	NO	17800		780	17800
25	2,4'-DDT	4.44e4	1.12e5	53	1.48	NO	1.0280	0.998	39.08	39.08	1.000	1.000	NO	1930		293	1930
26	4,4'-DDD	1.05e6	8.84e4	54	1.98	NO	1.1242	0.998	39.20	39.20	1.000	1.000	NO	53000		290	53000
27	4,4'-DDT	1.60e5	9.13e4	55	1.49	NO	1.1336	0.998	40.26	40.25	1.000	1.000	NO	7760		522	7760
28	Endosulfan Sulfate	1.15e3	3.44e3	56	1.25	NO	0.9871	0.998	41.44	41.36	0.998	1.000	NO	1700		2320	1700
29	4,4'-Methoxychlor	2.17e5	8.50e5	57	0.81	NO	1.2668	0.998	43.30	43.37	1.002	1.000	NO	10100		6390	10100
30	Mirex	1.41e4	3.48e4	58	0.98	YES	1.0435	0.998	43.86	43.91	1.001	1.000	NO	1950		777	1580
31	Endrin Aldehyde		4.59e4	59		NO	1.0582	0.998	40.84			1.000	YES			1970	
32	Endrin Ketone	6.01e4	1.31e5	60	0.85	NO	0.9741	0.998	44.19	44.13	0.999	1.000	NO	23600		750	23600
33	13C4-Hexachlorobenz.	2.46e5	2.52e5	62	1.28	NO	0.1267	0.998	9.98	9.98	0.983	0.983	NO	38600	77.1	48.4	
34	13C8-Hexachlorobenz.	1.38e5	2.52e5	62	1.31	NO	0.6741	0.998	22.70	22.66	0.871	0.872	NO	4050	80.8	7.49	
35	13C8-Alpha-BHC	5.12e4	2.52e5	62	0.81	NO	0.2548	0.998	23.23	23.17	0.890	0.892	NO	3990	79.6	194	
36	13C8-Lindane (gamma)	4.89e4	2.52e5	62	0.92	NO	0.2007	0.998	26.50	26.53	1.019	1.018	NO	4840	96.5	246	





Dataset: U:\VG11.PRO\Results\200201K2\200201K2-6.qld

Last Altered: Monday, February 03, 2020 10:49:32 Pacific Standard Time

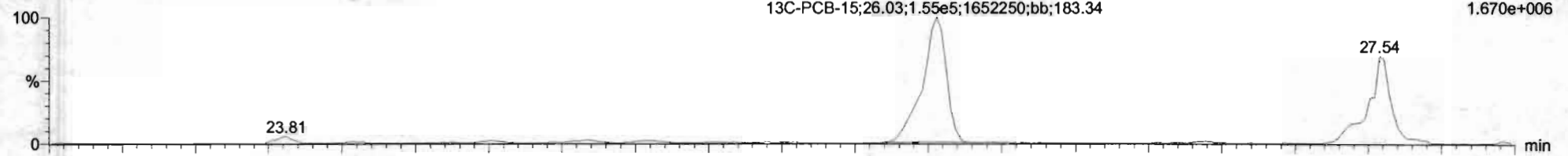
Printed: Monday, February 03, 2020 10:51:03 Pacific Standard Time

Name: 200201K2_6, Date: 01-Feb-2020, Time: 17:59:16, ID: 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19, Description: PDI-141RAB-10-17.7-191107

13C-PCB-15

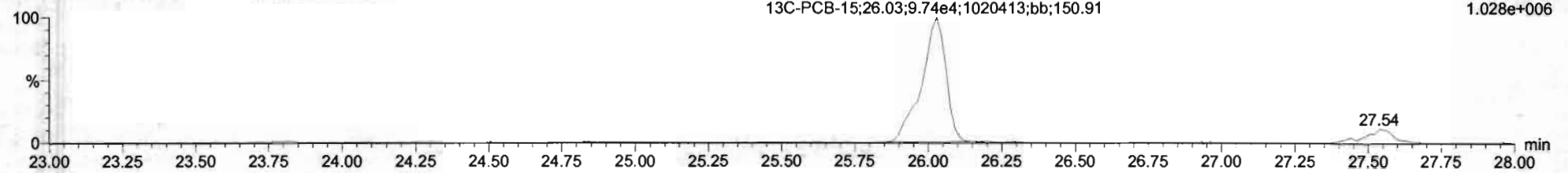
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PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19

F2:Voltage SIR,EI+
234.0406
1.670e+006



200201K2_6
PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19

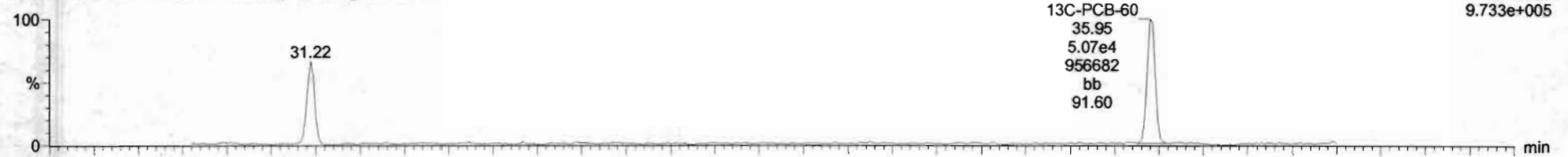
F2:Voltage SIR,EI+
236.0376
1.028e+006



13C-PCB-60

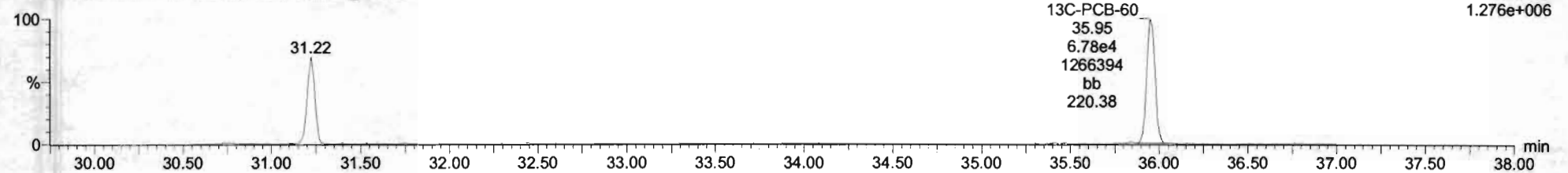
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PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19

F3:Voltage SIR,EI+
301.9626
9.733e+005



200201K2_6
PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19

F3:Voltage SIR,EI+
303.9597
1.276e+006



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-6.qld

Last Altered: Monday, February 03, 2020 10:49:32 Pacific Standard Time

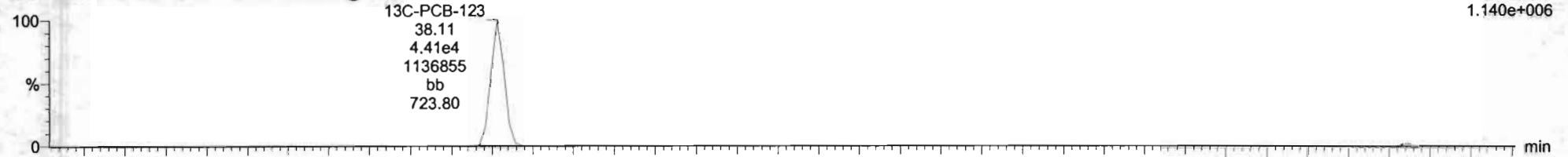
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13C-PCB-123

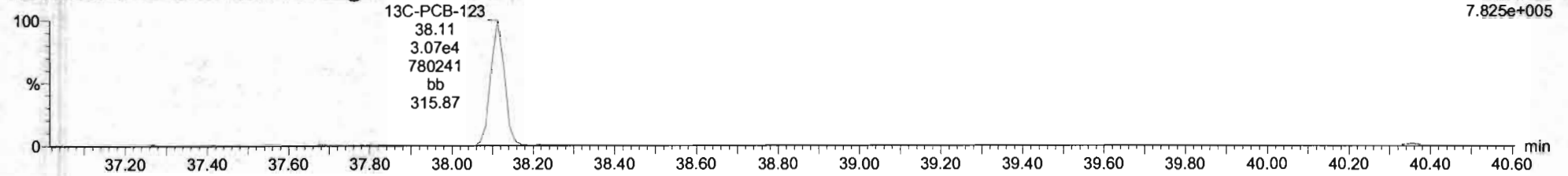
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PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19

F4:Voltage SIR,EI+
337.9210
1.140e+006



200201K2_6
PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19

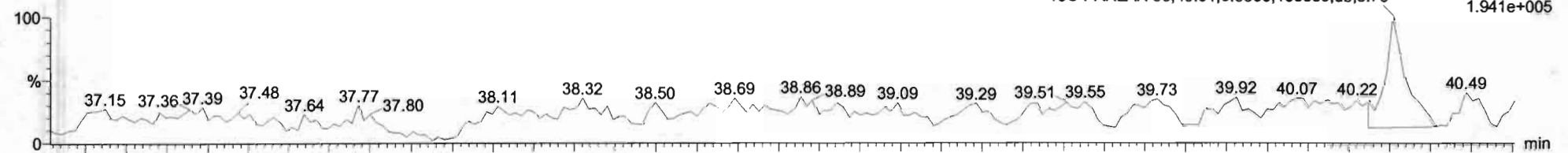
F4:Voltage SIR,EI+
339.9180
7.825e+005



13C-PARLAR 39

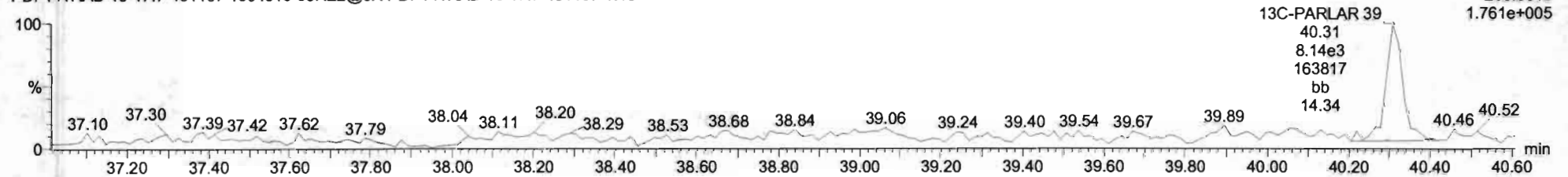
200201K2_6
PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19

F4:Voltage SIR,EI+
251.9648
1.941e+005
13C-PARLAR 39;40.31;9.96e3;168889;db;8.76



200201K2_6
PDI-141RAB-10-17.7-191107 1904016-06RE2@5X PDI-141RAB-10-17.7-191107 1.19

F4:Voltage SIR,EI+
253.9619
1.761e+005

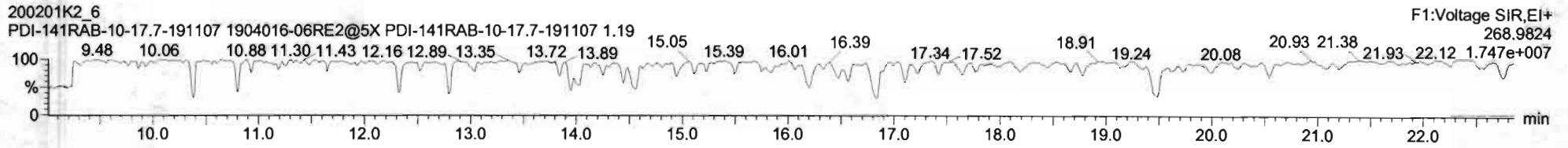


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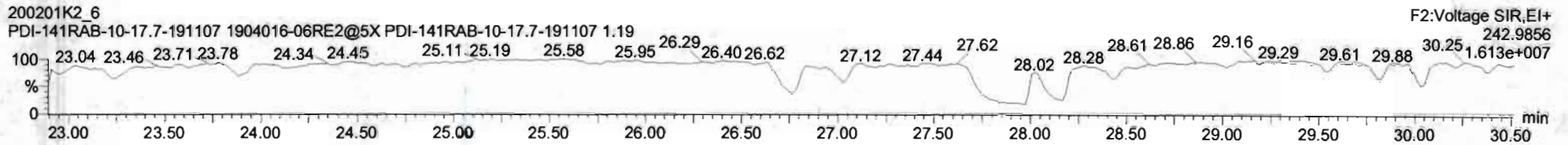
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Printed: Monday, February 03, 2020 10:51:03 Pacific Standard Time

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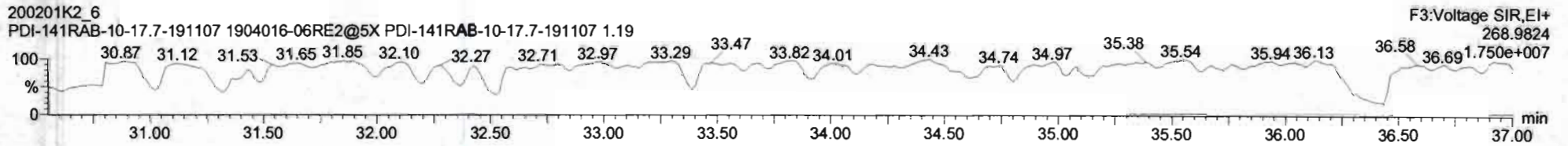
PFK1



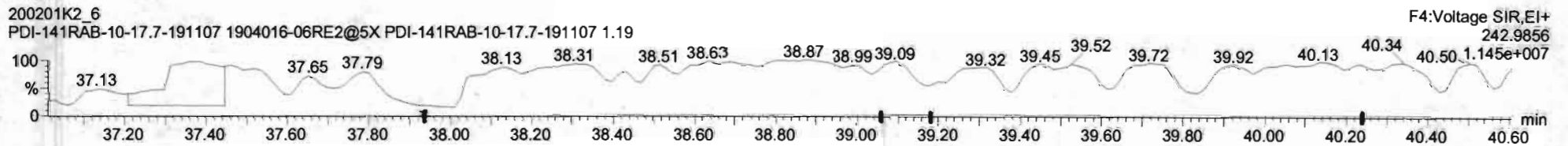
PFK2



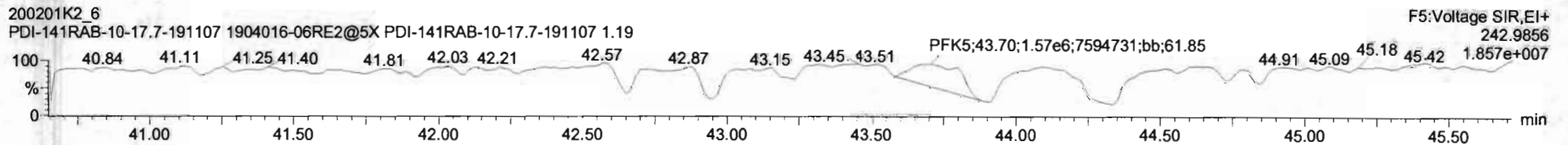
PFK3



PFK4



PFK5



Dataset: U:\VG11.PRO\Results\191122K4\191122K4-8.qld

Last Altered: Tuesday, November 26, 2019 15:47:00 Pacific Standard Time

Printed: Tuesday, November 26, 2019 15:47:51 Pacific Standard Time

2/6/20

GRB 11/26/19

CT 02/07/2020

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: 191122K4_8, Date: 23-Nov-2019, Time: 14:21:20, ID: 1904016-07 PDI-143RAB-00-10-191111 1, Description: PDI-143RAB-00-10-191111

	# 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)		2.15e5		NO	0.744	1.007	✓ 26.65				1.001	YES		4.47	
2	9 Aldrin		1.26e5		NO	1.02	1.007	30.99				1.001	YES		3.53	
3	10 Oxychlordane		3.42e4		NO	0.992	1.007	33.58				1.001	YES		11.5	
4	13 trans-Chlordane (gam...		3.50e4		NO	1.08	1.007	35.28				1.001	YES		9.67	
5	14 trans-Nonachlor		3.78e4		NO	1.00	1.007	35.47				1.001	YES		9.45	
6	15 cis-Chlordane		3.78e4		NO	0.981	1.007	35.96				1.014	YES		9.65	
7	18 2,4'-DDE		8.65e5		NO	0.854	1.007	35.94				1.000	YES		2.47	
8	19 4,4'-DDE	8.38e3	6.48e5	1.54	NO	0.873	1.007	37.03	37.03	1.000	1.000	NO	14.7		3.31	14.7
9	20 Dieldrin		8.86e4		NO	0.957	1.007	37.52				1.000	YES		5.07	
10	22 cis-Nonachlor		4.49e4		NO	0.956	1.007	39.22				1.000	YES		9.69	

Dataset: U:\VG11.PRO\Results\191122K4\191122K4-8.qld

Last Altered: Tuesday, November 26, 2019 15:47:00 Pacific Standard Time

Printed: Tuesday, November 26, 2019 15:47:44 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: 191122K4_8, Date: 23-Nov-2019, Time: 14:21:20, ID: 1904016-07 PDI-143RAB-00-10-191111 1, Description: PDI-143RAB-00-10-191111

	# 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	1.54e4	7.91e5	1.63	NO	0.915	1.007	38.15	38.17	1.000	1.000	NO	21.1		3.19	21.1
2	25 2,4'-DDT	5.18e3	4.65e5	1.43	NO	0.921	1.007	39.30	39.29	1.000	1.000	NO	12.0		5.19	12.0
3	26 4,4'-DDD	3.97e4	6.74e5	1.49	NO	1.00	1.007	39.43	39.43	1.000	1.000	NO	58.3		3.28	58.3
4	27 4,4'-DDT	3.46e4	3.79e5	1.41	NO	0.986	1.007	40.50	40.50	1.000	1.000	NO	91.8		6.08	91.8
5	36 13C6-Lindane (gamma)	2.15e5	1.35e6	0.81	NO	0.189	1.007	26.63	26.62	1.019	1.020	NO	836	84.2	5.74	
6	40 13C12-Aldrin	1.26e5	1.35e6	1.64	NO	0.122	1.007	30.93	30.96	1.185	1.184	NO	760	76.5	4.23	
7	41 13C10-Oxychlordan	3.42e4	1.35e6	1.68	NO	0.0283	1.007	33.53	33.56	1.285	1.284	NO	889	89.5	18.2	
8	43 13C10-trans-Chlordan...	3.50e4	1.35e6	1.60	NO	0.0292	1.007	35.23	35.26	1.350	1.349	NO	881	88.7	17.6	
9	44 13C10-trans-Nonachlor	3.78e4	1.35e6	1.59	NO	0.0333	1.007	35.42	35.45	1.357	1.356	NO	832	83.8	15.4	

Dataset: U:\VG11.PRO\Results\191122K4\191122K4-8.qld

Last Altered: Tuesday, November 26, 2019 15:47:00 Pacific Standard Time

Printed: Tuesday, November 26, 2019 15:47:37 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: 191122K4_8, Date: 23-Nov-2019, Time: 14:21:20, ID: 1904016-07 PDI-143RAB-00-10-191111 1, Description: PDI-143RAB-00-10-191111

	# 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	8.65e5	1.35e6	1.60	NO	0.763	1.007	35.94	35.93	0.996	0.996	NO	833	83.9	5.31	
2	47 13C12-4,4'-DDE	6.48e5	1.35e6	1.64	NO	0.552	1.007	37.00	37.01	1.026	1.026	NO	862	86.8	7.34	
3	48 13C12-Dieldrin	8.86e4	1.35e6	1.64	NO	0.0749	1.007	37.50	37.50	1.039	1.039	NO	868	87.4	7.18	
4	50 13C10-cis-Nonachlor	4.49e4	1.35e6	1.50	NO	0.0389	1.007	39.19	39.21	1.087	1.086	NO	847	85.3	13.8	
5	52 13C12-2,4'-DDD	7.91e5	1.35e6	1.56	NO	0.588	1.007	38.10	38.15	1.461	1.459	NO	988	99.4	5.67	
6	53 13C12-2,4'-DDT	4.65e5	1.35e6	1.60	NO	0.370	1.007	39.23	39.28	1.504	1.502	NO	924	93.0	9.01	
7	54 13C12-4,4'-DDD	6.74e5	1.35e6	1.59	NO	0.473	1.007	39.35	39.41	1.509	1.507	NO	1050	105	7.05	
8	55 13C12-4,4'-DDT	3.79e5	1.35e6	1.60	NO	0.280	1.007	40.41	40.48	1.550	1.547	NO	994	100	11.9	
9	62 13C-PCB-15	1.35e6	1.35e6	1.58	NO	1.00	1.007	26.18	26.12	1.000	1.000	NO	993	100	1.21	

Dataset: Untitled

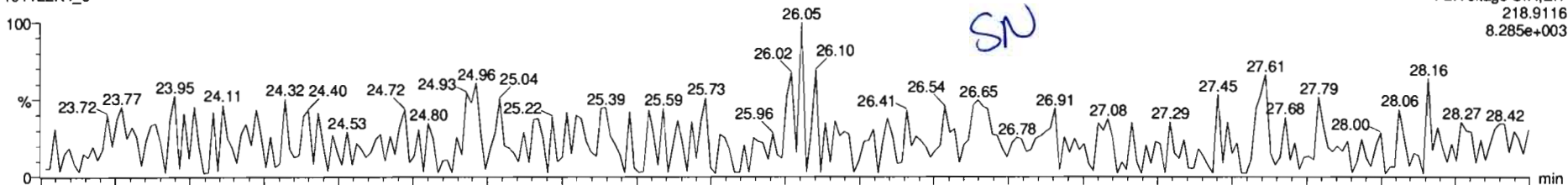
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Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

Name: 191122K4_8, Date: 23-Nov-2019, Time: 14:21:20, ID: 1904016-07 PDI-143RAB-00-10-191111 1, Description: PDI-143RAB-00-10-191111

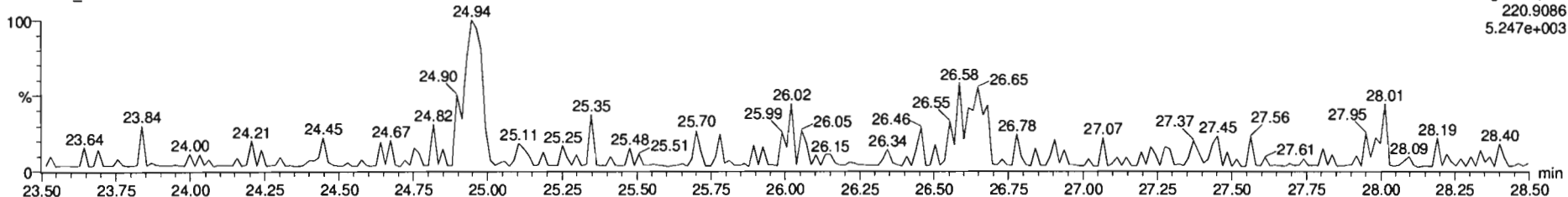
Lindane (gamma-BHC)

191122K4_8



F2:Voltage SIR,EI+
218.9116
8.285e+003

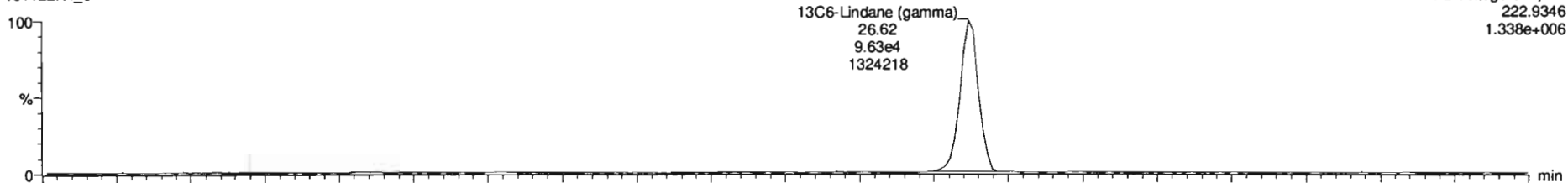
191122K4_8



F2:Voltage SIR,EI+
220.9086
5.247e+003

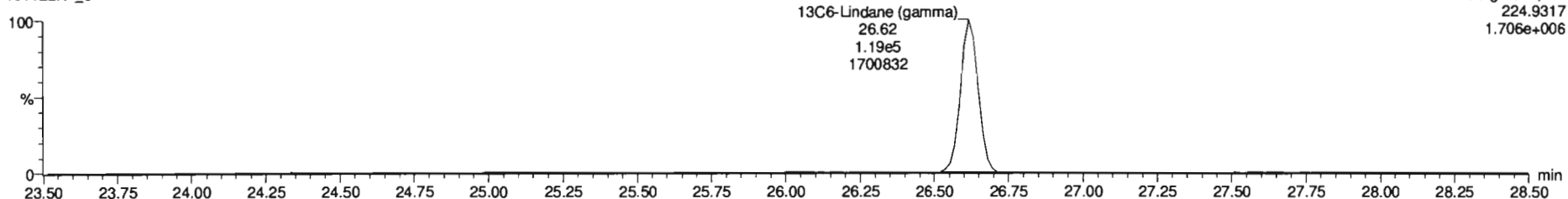
¹³C6-Lindane (gamma)

191122K4_8



F2:Voltage SIR,EI+
222.9346
1.338e+006

191122K4_8



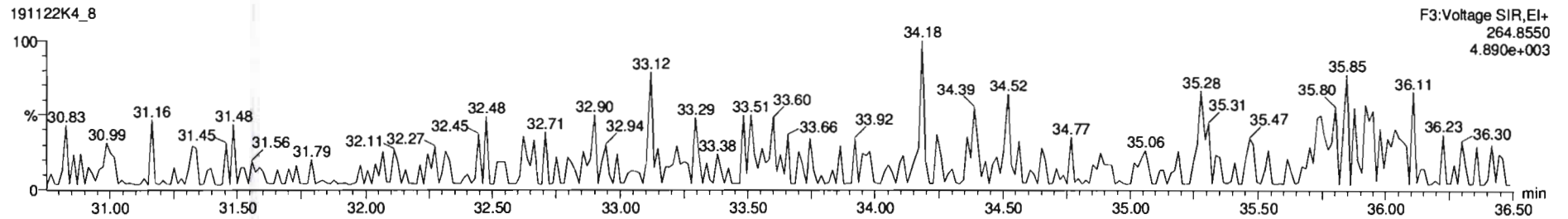
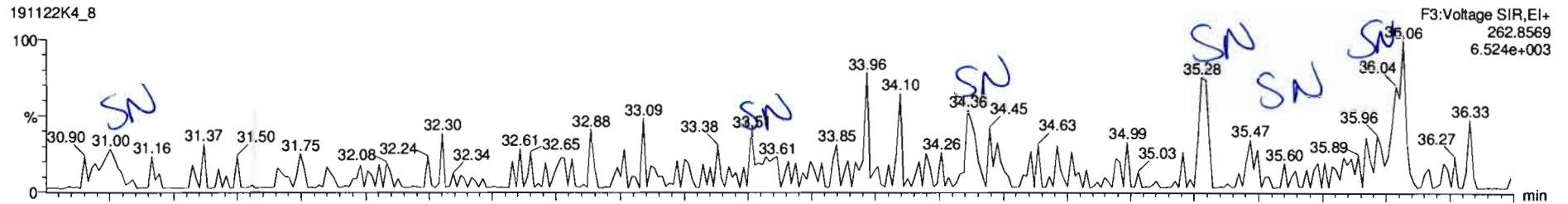
F2:Voltage SIR,EI+
224.9317
1.706e+006

Dataset: Untitled

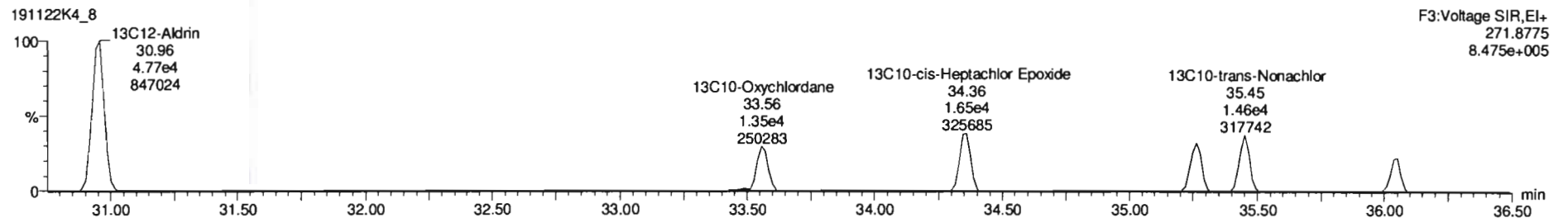
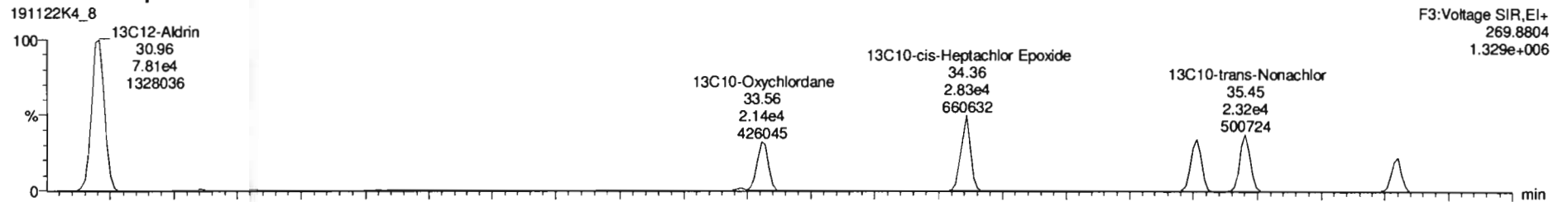
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Name: 191122K4_8, Date: 23-Nov-2019, Time: 14:21:20, ID: 1904016-07 PDI-143RAB-00-10-191111 1, Description: PDI-143RAB-00-10-191111

Aldrin-EI



Aldrin-EI-isotopes



Dataset: Untitled

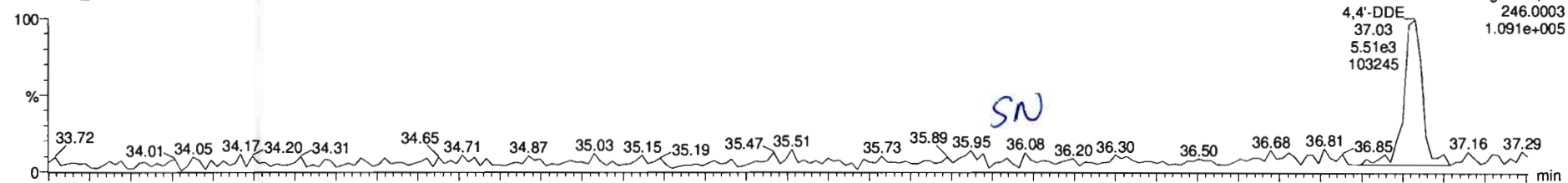
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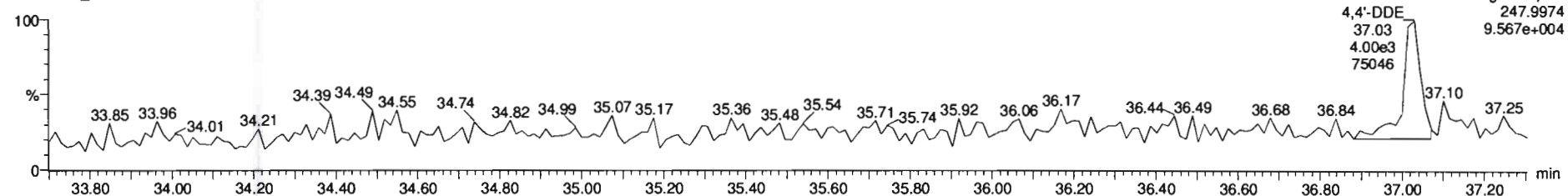
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DDMU-DDE

191122K4_8

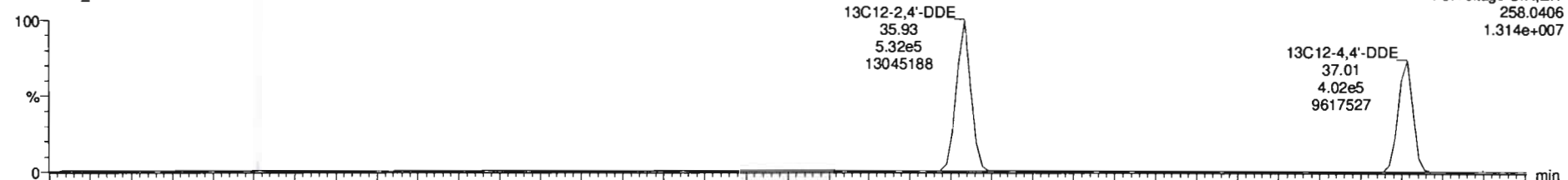


191122K4_8

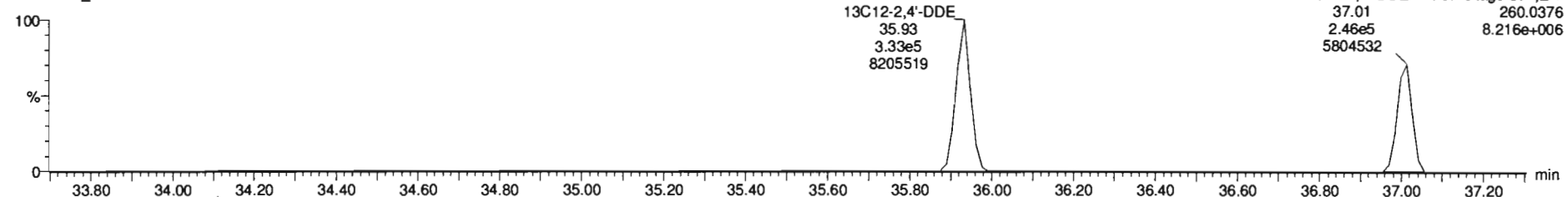


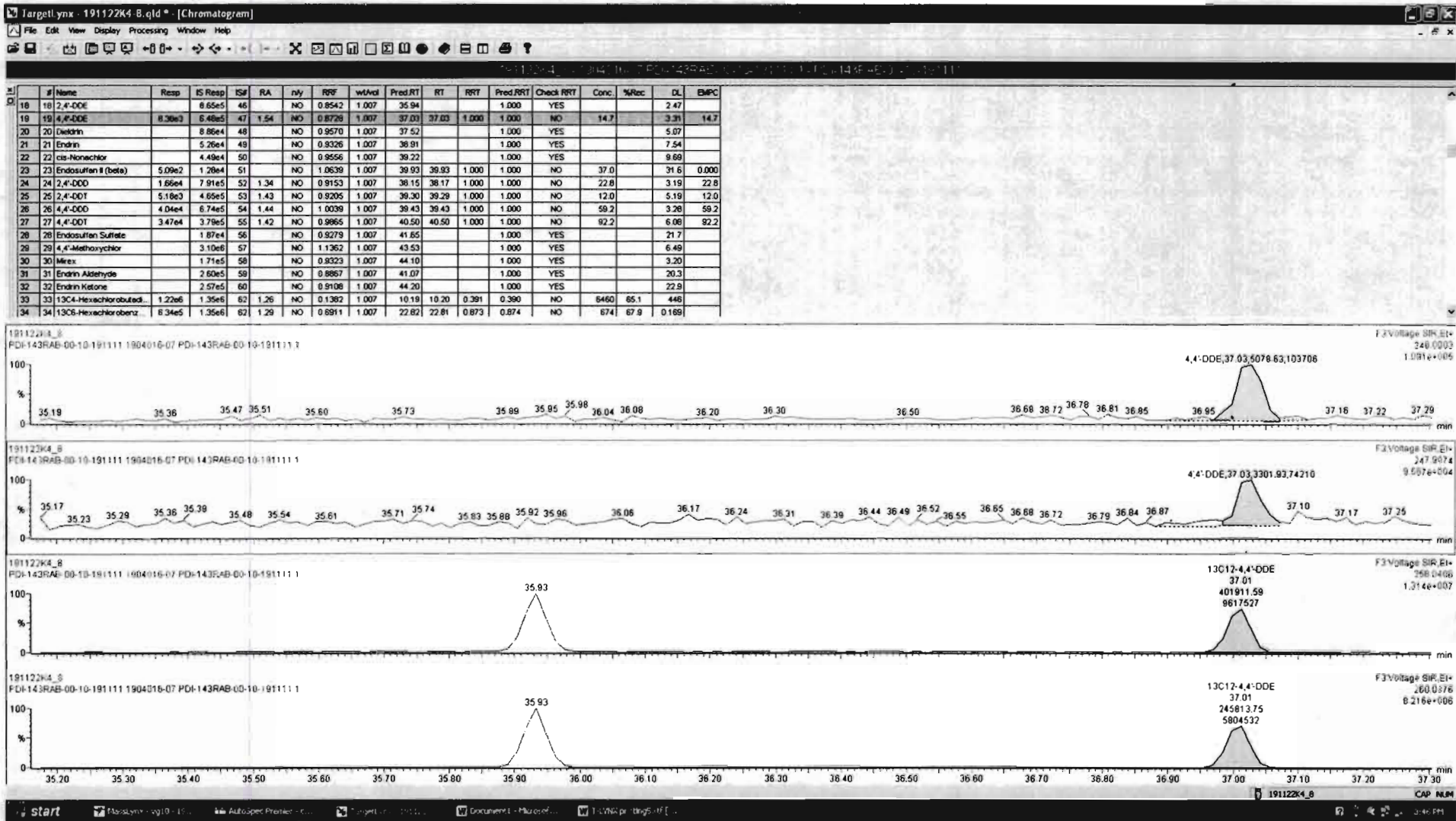
DDE-isotopes

191122K4_8



191122K4_8





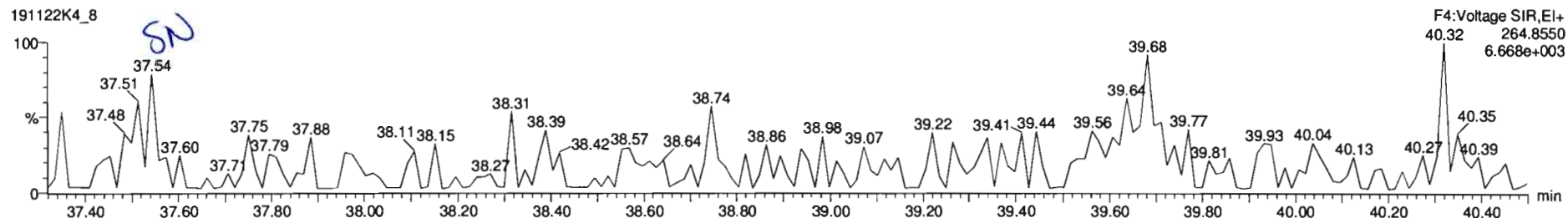
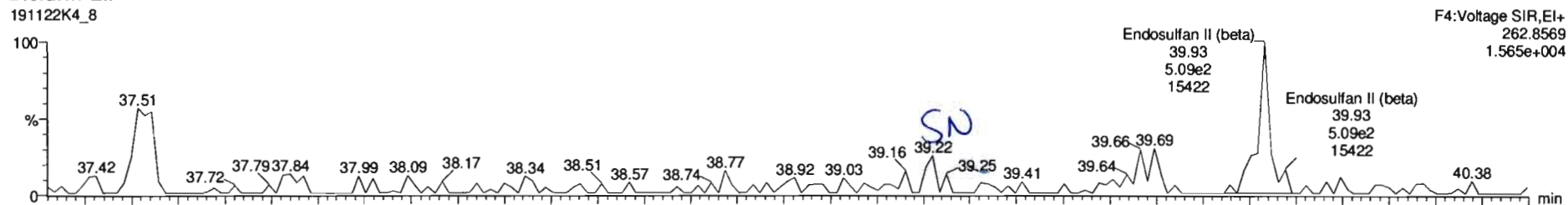
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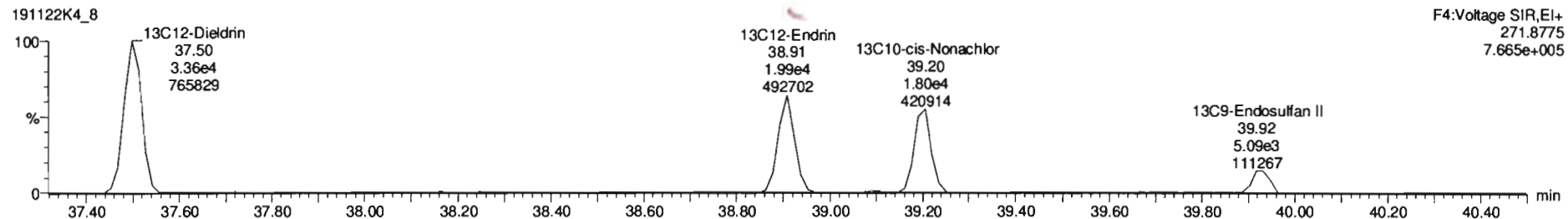
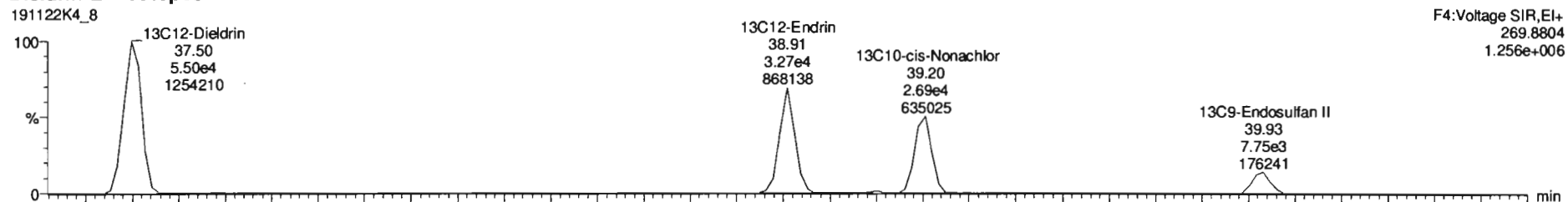
Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

Name: 191122K4_8, Date: 23-Nov-2019, Time: 14:21:20, ID: 1904016-07 PDI-143RAB-00-10-191111 1, Description: PDI-143RAB-00-10-191111

Dieldrin-EII



Dieldrin-EII-isotopes



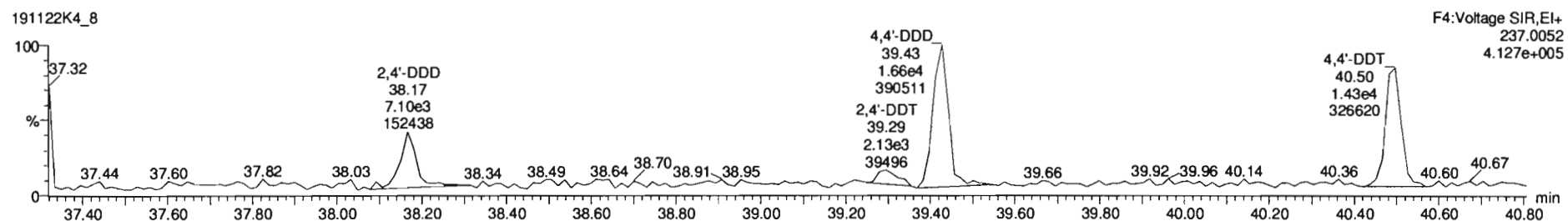
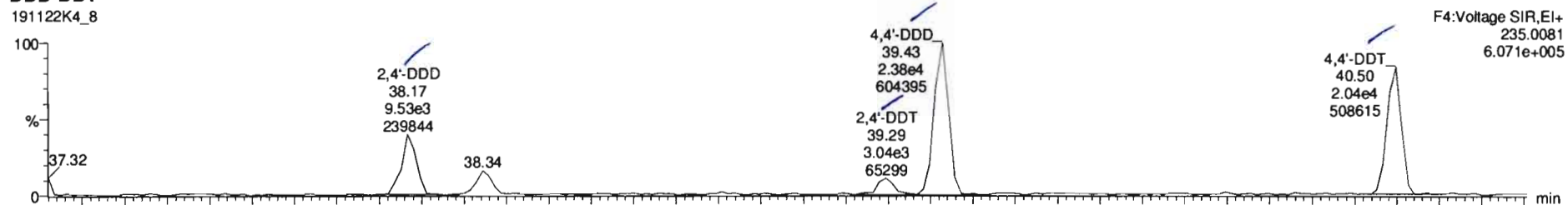
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Last Altered: Monday, November 25, 2019 11:28:29 Pacific Standard Time

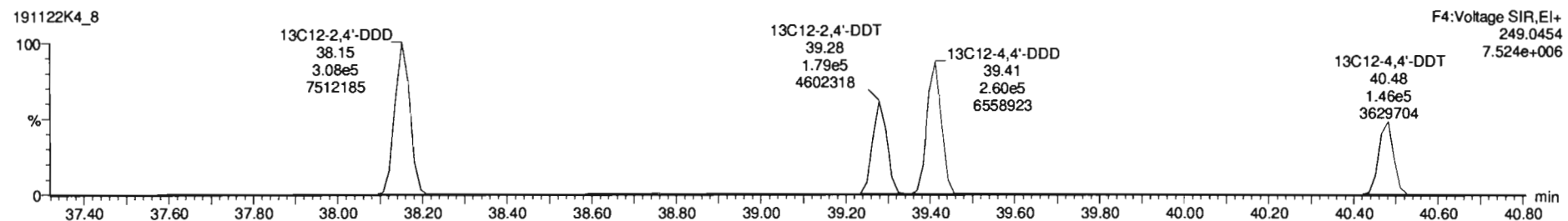
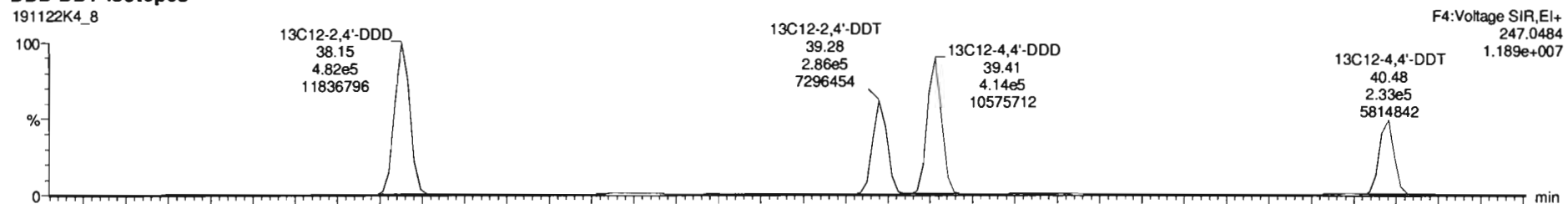
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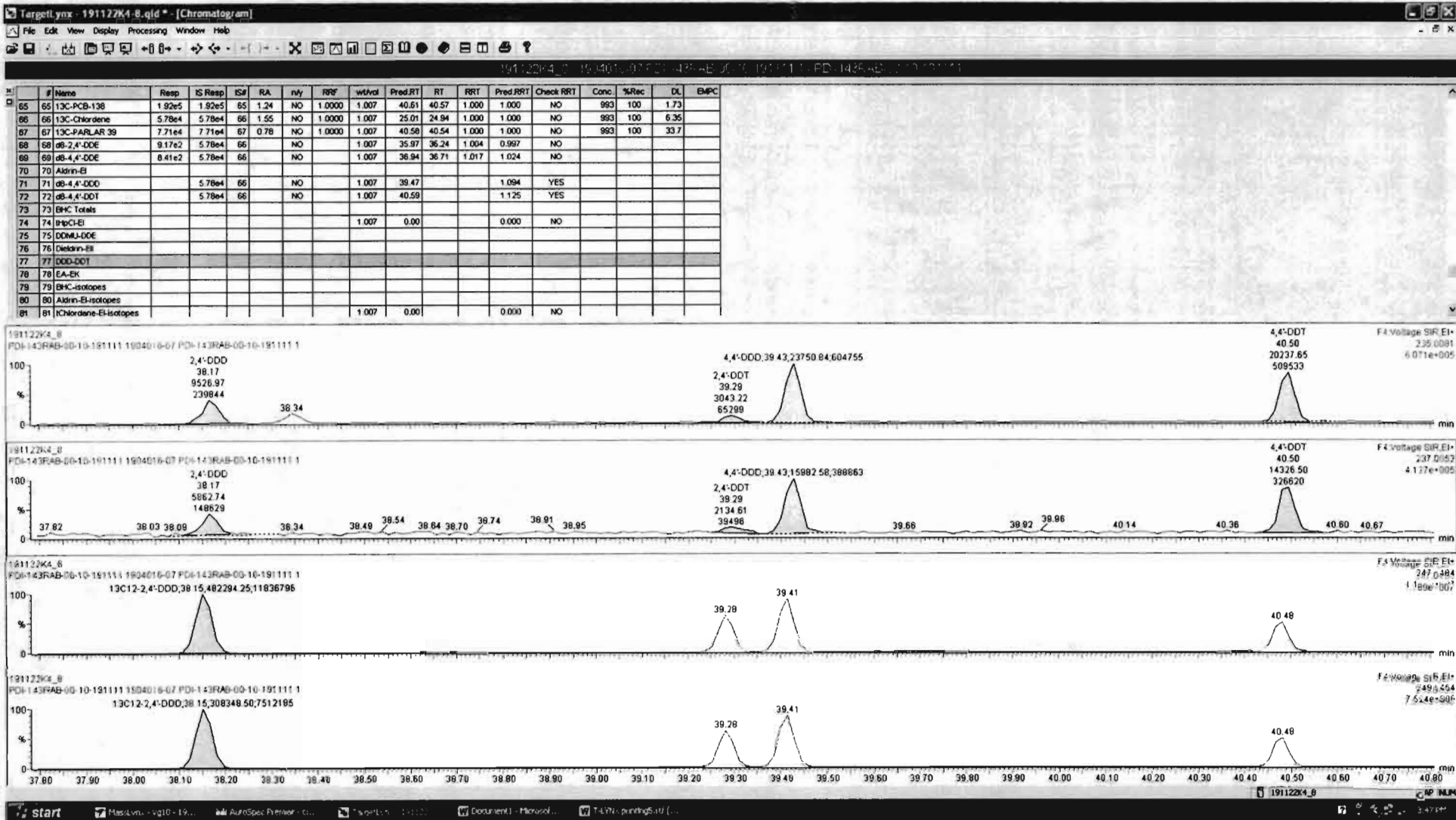
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DDD-DDT



DDD-DDT-isotopes





Dataset: Untitled

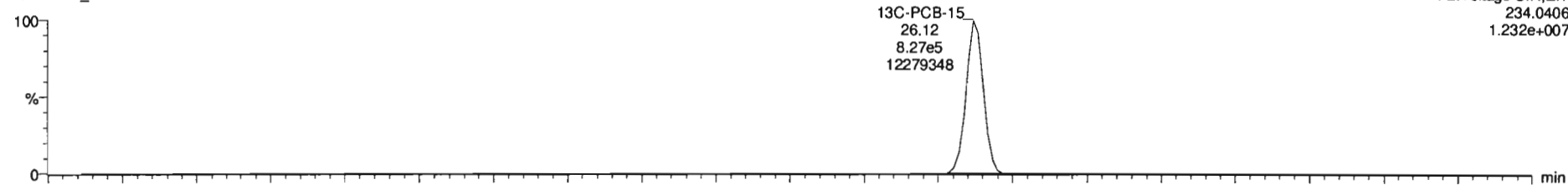
Last Altered: Monday, November 25, 2019 11:28:29 Pacific Standard Time

Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

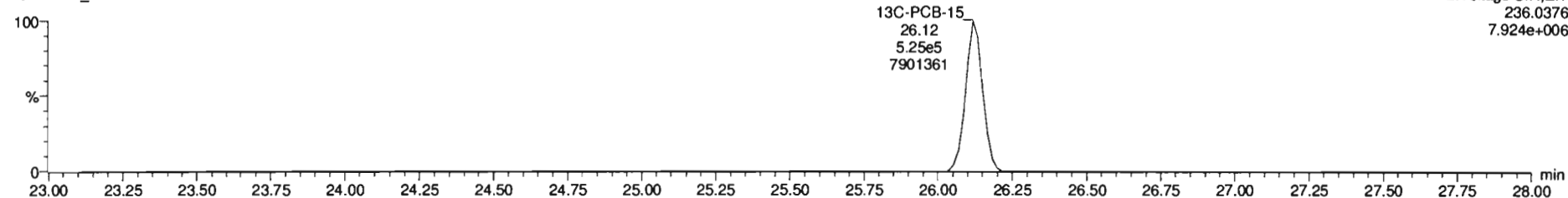
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13C-PCB-15

191122K4_8

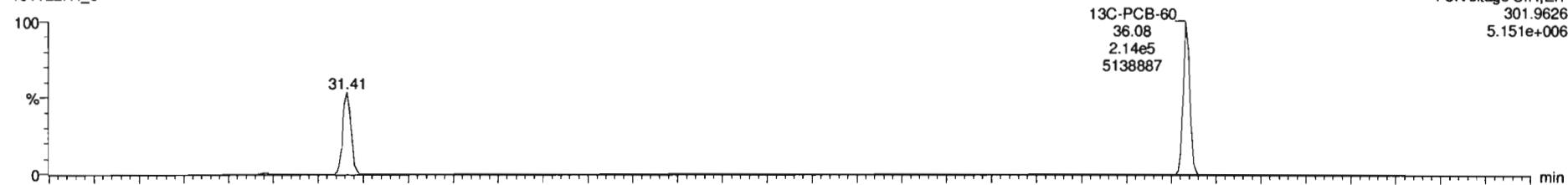


191122K4_8

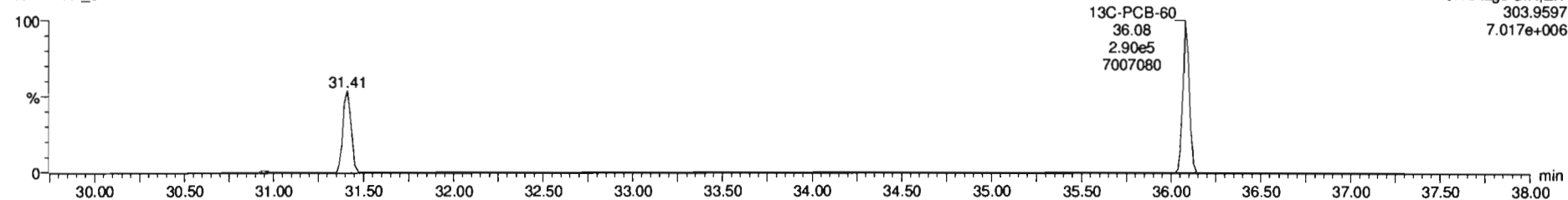


13C-PCB-60

191122K4_8



191122K4_8



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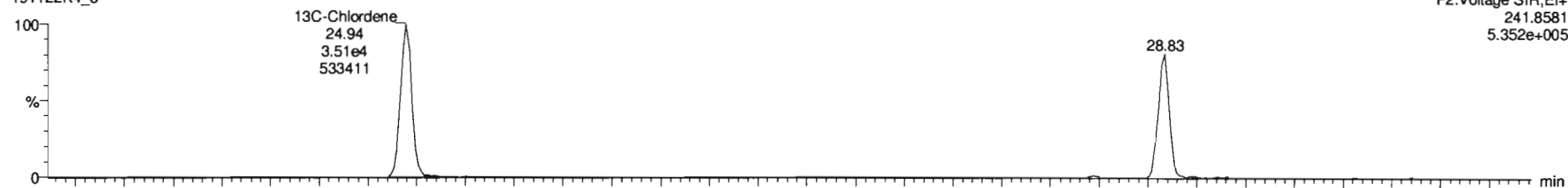
Last Altered: Monday, November 25, 2019 11:28:29 Pacific Standard Time

Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

Name: 191122K4_8, Date: 23-Nov-2019, Time: 14:21:20, ID: 1904016-07 PDI-143RAB-00-10-191111 1, Description: PDI-143RAB-00-10-191111

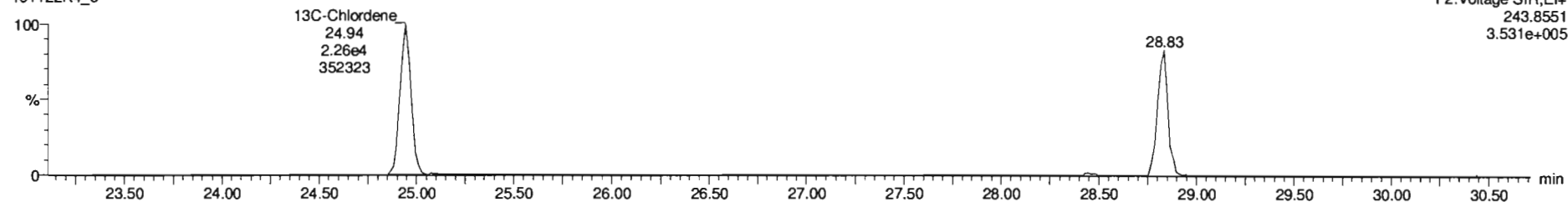
13C-Chlordene

191122K4_8



F2:Voltage SIR,EI+
241.8581
5.352e+005

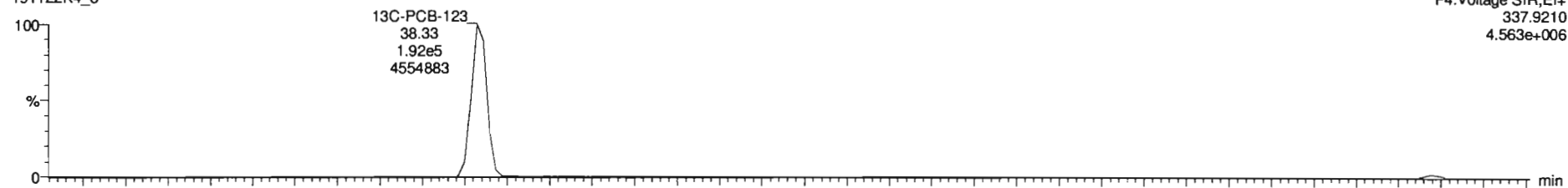
191122K4_8



F2:Voltage SIR,EI+
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3.531e+005

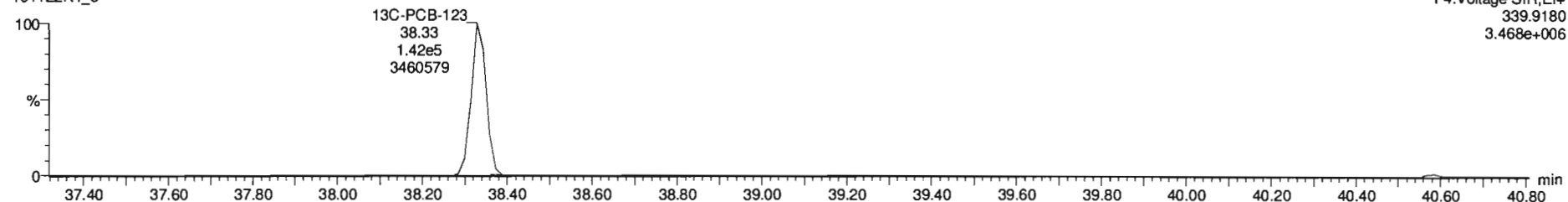
13C-PCB-123

191122K4_8



F4:Voltage SIR,EI+
337.9210
4.563e+006

191122K4_8



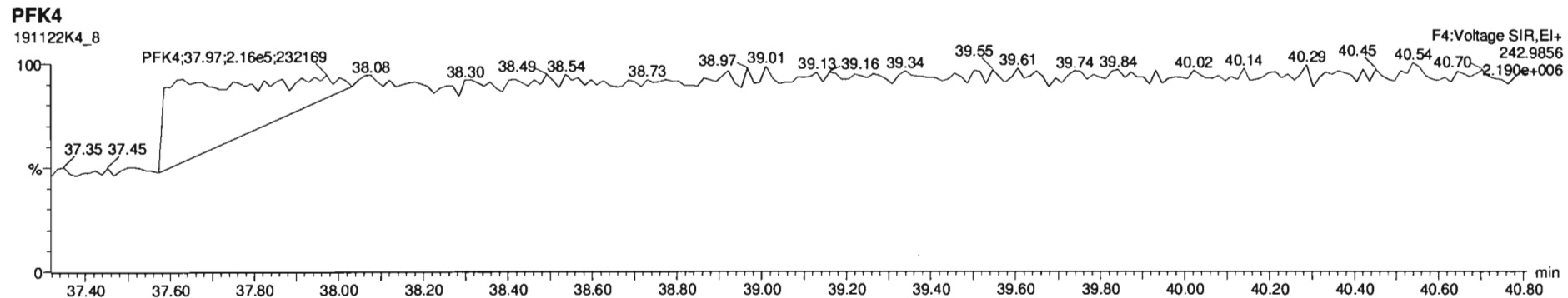
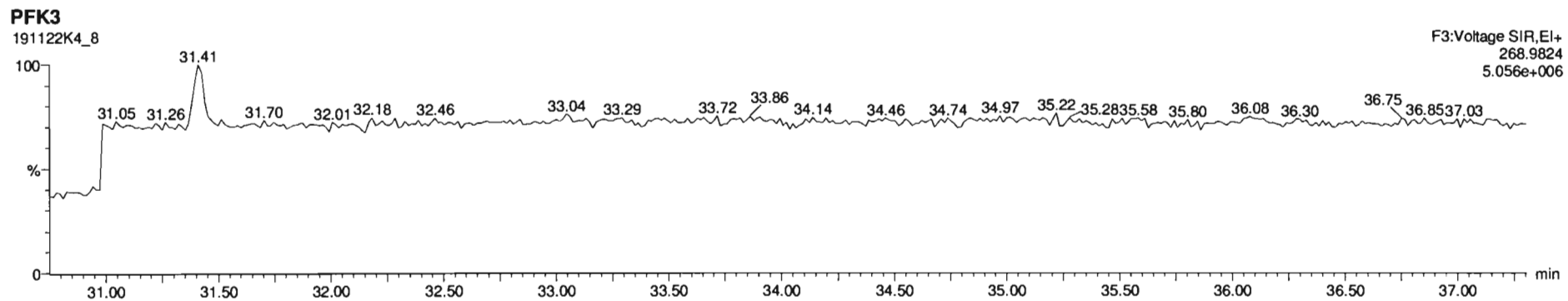
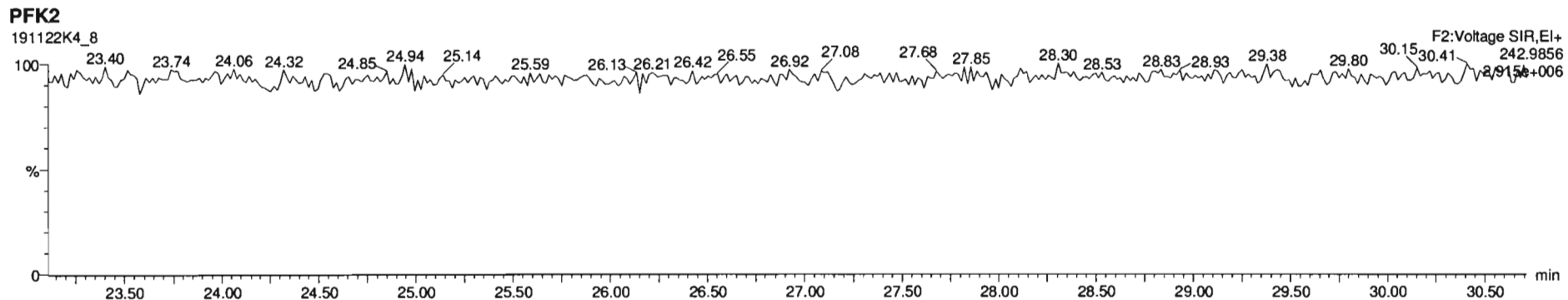
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3.468e+006

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Last Altered: Monday, November 25, 2019 11:28:29 Pacific Standard Time

Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

Name: 191122K4_8, Date: 23-Nov-2019, Time: 14:21:20, ID: 1904016-07 PDI-143RAB-00-10-191111 1, Description: PDI-143RAB-00-10-191111



Dataset: U:\VG11.PRO\Results\191122K4\191122K4-9.qld

Last Altered: Tuesday, November 26, 2019 15:51:37 Pacific Standard Time

Printed: Tuesday, November 26, 2019 15:53:01 Pacific Standard Time

d 2/6/20
GRB 11/26/19

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

CT 02/01/2020

Name: 191122K4_9, Date: 23-Nov-2019, Time: 15:10:53, ID: 1904016-08 PDI-143RAB-10-20-191111 1, Description: PDI-143RAB-10-20-191111

#	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)		2.11e5		NO	0.744	1.026	26.66			1.001	YES			4.19	
2	9 Aldrin		1.31e5		NO	1.02	1.026	30.99			1.001	YES			2.18	
3	10 Oxychlordane		3.52e4		NO	0.992	1.026	33.59			1.001	YES			7.67	
4	13 trans-Chlordane (gam...	1.28e3	3.46e4	1.52	NO	1.08	1.026	35.28	35.29	1.001	1.001	NO	33.2		6.30	33.2
5	14 trans-Nonachlor	4.55e2	3.85e4	1.92	NO	1.00	1.026	35.47	35.50	1.001	1.001	NO	11.5		6.17	11.5
6	15 cis-Chlordane	1.18e3	3.85e4	1.42	NO	0.981	1.026	35.96	35.96	1.014	1.014	NO	30.4		6.31	30.4
7	18 2,4'-DDE	3.64e3	8.84e5	1.10	YES	0.854	1.026	35.94	35.96	1.001	1.000	NO	4.70		2.57	4.04
8	19 4,4'-DDE	4.59e4	6.67e5	1.30	NO	0.873	1.026	37.03	37.03	1.000	1.000	NO	76.9		2.89	76.9
9	20 Dieldrin	2.02e3	8.90e4	1.80	NO	0.957	1.026	37.52	37.53	1.001	1.000	NO	23.1		4.43	23.1
10	22 cis-Nonachlor		4.54e4		NO	0.956	1.026	39.22			1.000	YES			8.27	

Dataset: U:\VG11.PRO\Results\191122K4\191122K4-9.qld

Last Altered: Tuesday, November 26, 2019 15:51:37 Pacific Standard Time

Printed: Tuesday, November 26, 2019 15:53:07 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: 191122K4_9, Date: 23-Nov-2019, Time: 15:10:53, ID: 1904016-08 PDI-143RAB-10-20-191111 1, Description: PDI-143RAB-10-20-191111

	# 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	7.12e4	7.85e5	1.59	NO	0.915	1.026	38.15	38.18	1.001	1.000	NO	96.5		3.98	96.5
2	25 2,4'-DDT	2.55e4	4.61e5	1.56	NO	0.921	1.026	39.30	39.29	1.000	1.000	NO	58.6		6.80	58.6
3	26 4,4'-DDD	1.90e5	6.52e5	1.57	NO	1.00	1.026	39.43	39.43	1.000	1.000	NO	283		3.95	283
4	27 4,4'-DDT	1.54e5	3.62e5	1.56	NO	0.986	1.026	40.50	40.50	1.000	1.000	NO	420		7.29	420
5	36 13C6-Lindane (gamma)	2.11e5	1.39e6	0.78	NO	0.189	1.026	26.64	26.63	1.019	1.020	NO	783	80.3	6.14	
6	40 13C12-Aldrin	1.31e5	1.39e6	1.66	NO	0.122	1.026	30.95	30.96	1.185	1.184	NO	757	77.7	3.27	
7	41 13C10-Oxychlorane	3.52e4	1.39e6	1.62	NO	0.0283	1.026	33.55	33.57	1.285	1.284	NO	875	89.8	14.0	
8	43 13C10-trans-Chlordan...	3.46e4	1.39e6	1.66	NO	0.0292	1.026	35.25	35.26	1.349	1.349	NO	833	85.5	13.6	
9	44 13C10-trans-Nonachlor	3.85e4	1.39e6	1.66	NO	0.0333	1.026	35.44	35.45	1.357	1.356	NO	811	83.2	11.9	

Dataset: U:\VG11.PRO\Results\191122K4\191122K4-9.qld

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Printed: Tuesday, November 26, 2019 15:53:12 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: 191122K4_9, Date: 23-Nov-2019, Time: 15:10:53, ID: 1904016-08 PDI-143RAB-10-20-191111 1, Description: PDI-143RAB-10-20-191111

	# 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	8.84e5	1.39e6	1.57	NO	0.763	1.026	35.95	35.93	0.996	0.996	NO	813	83.5	4.69	
2	47 13C12-4,4'-DDE	6.67e5	1.39e6	1.58	NO	0.552	1.026	37.01	37.01	1.025	1.026	NO	848	87.0	6.48	
3	48 13C12-Dieldrin	8.90e4	1.39e6	1.58	NO	0.0749	1.026	37.51	37.50	1.039	1.039	NO	834	85.6	7.39	
4	50 13C10-cis-Nonachlor	4.54e4	1.39e6	1.46	NO	0.0389	1.026	39.20	39.21	1.086	1.086	NO	818	84.0	14.2	
5	52 13C12-2,4'-DDD	7.85e5	1.39e6	1.60	NO	0.588	1.026	38.12	38.15	1.460	1.459	NO	937	96.2	4.50	
6	53 13C12-2,4'-DDT	4.61e5	1.39e6	1.59	NO	0.370	1.026	39.25	39.28	1.503	1.502	NO	874	89.7	7.15	
7	54 13C12-4,4'-DDD	6.52e5	1.39e6	1.60	NO	0.473	1.026	39.37	39.41	1.508	1.507	NO	968	99.3	5.59	
8	55 13C12-4,4'-DDT	3.62e5	1.39e6	1.60	NO	0.280	1.026	40.44	40.48	1.549	1.547	NO	908	93.2	9.44	
9	62 13C-PCB-15	1.39e6	1.39e6	1.57	NO	1.00	1.026	26.18	26.13	1.000	1.000	NO	974	100	1.05	

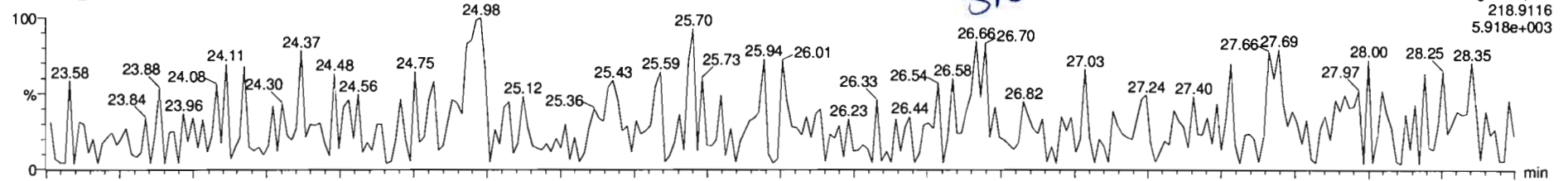
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Last Altered: Monday, November 25, 2019 11:28:29 Pacific Standard Time
Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

Name: 191122K4_9, Date: 23-Nov-2019, Time: 15:10:53, ID: 1904016-08 PDI-143RAB-10-20-191111 1, Description: PDI-143RAB-10-20-191111

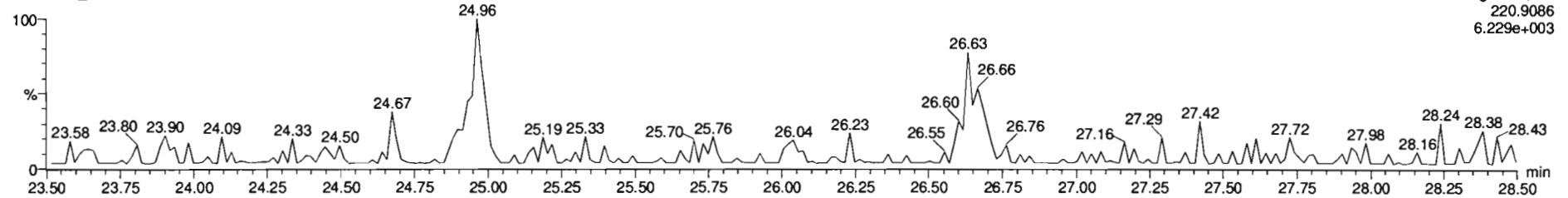
Lindane (gamma-BHC)

191122K4_9



F2:Voltage SIR,EI+
218.9116
5.918e+003

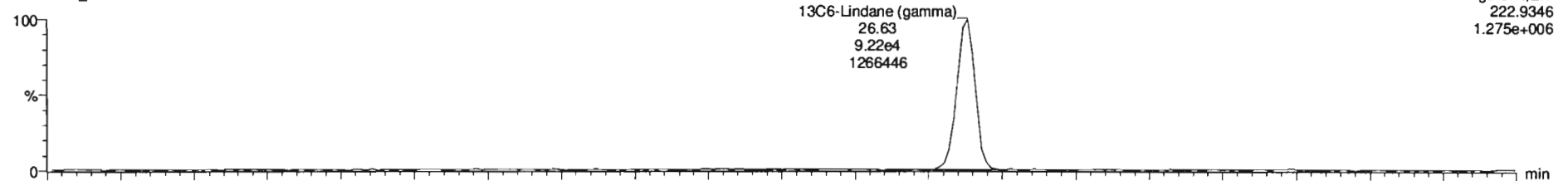
191122K4_9



F2:Voltage SIR,EI+
220.9086
6.229e+003

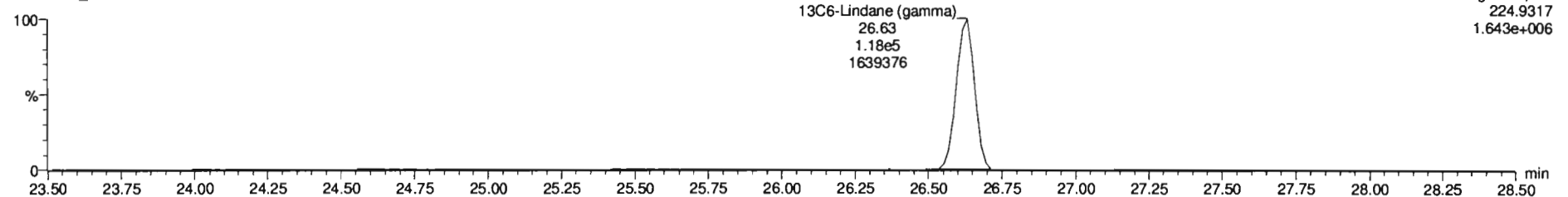
13C6-Lindane (gamma)

191122K4_9



F2:Voltage SIR,EI+
222.9346
1.275e+006

191122K4_9



F2:Voltage SIR,EI+
224.9317
1.643e+006

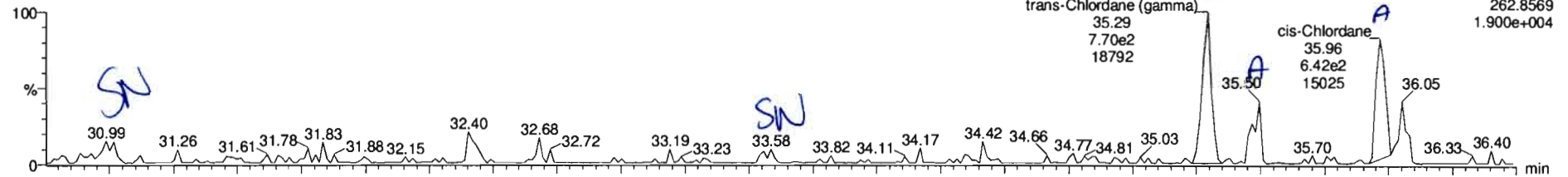
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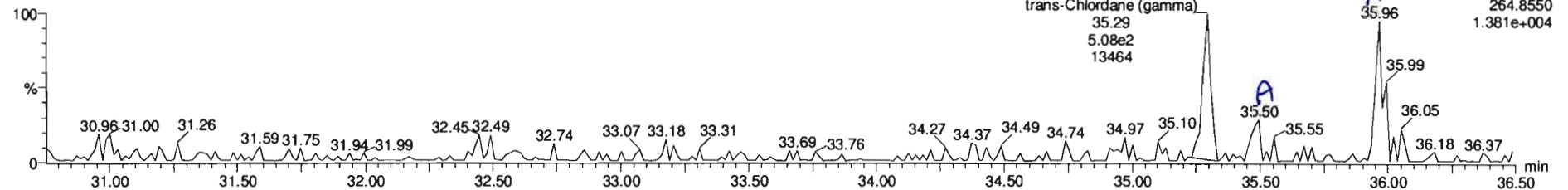
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Aldrin-EI

191122K4_9

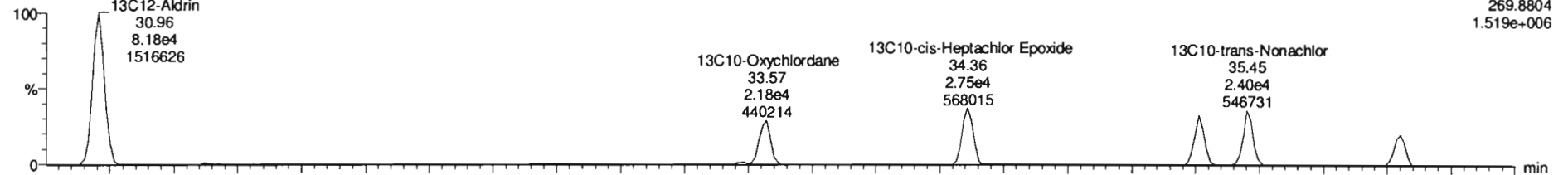


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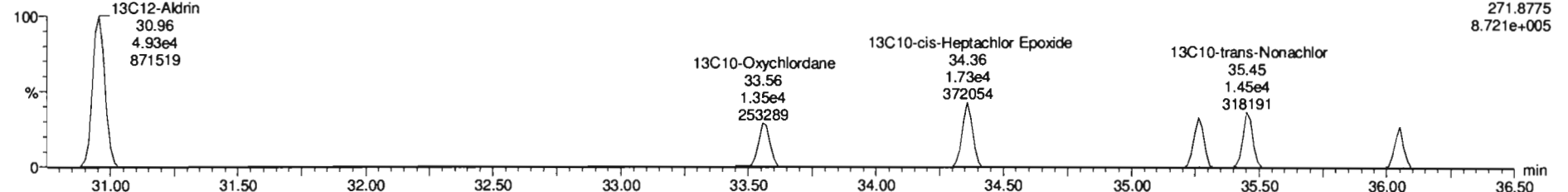


Aldrin-EI-isotopes

191122K4_9



191122K4_9



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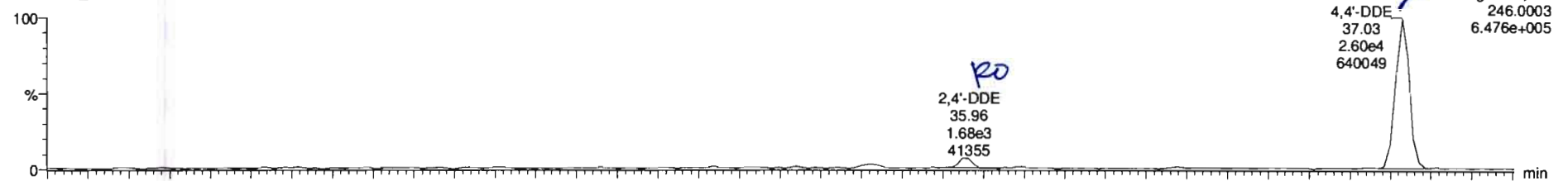
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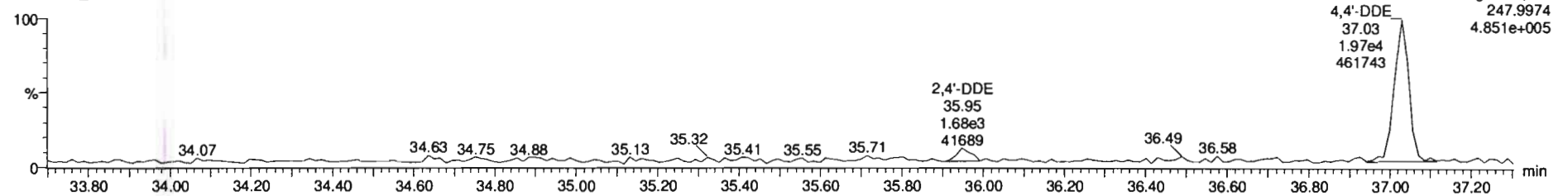
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DDMU-DDE

191122K4_9

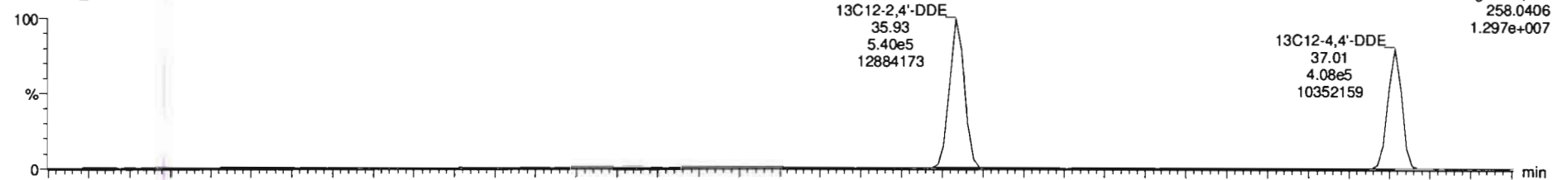


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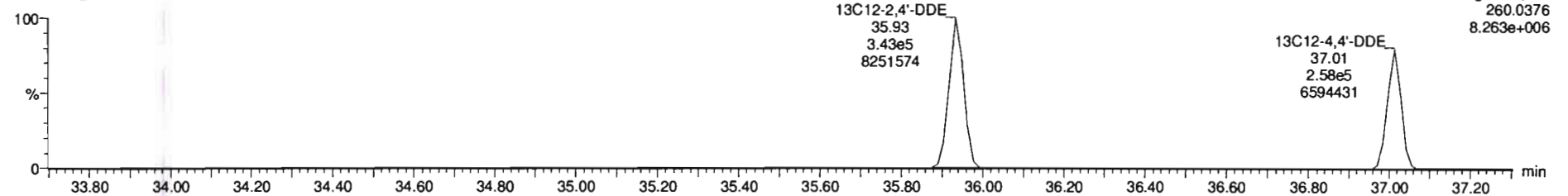


DDE-isotopes

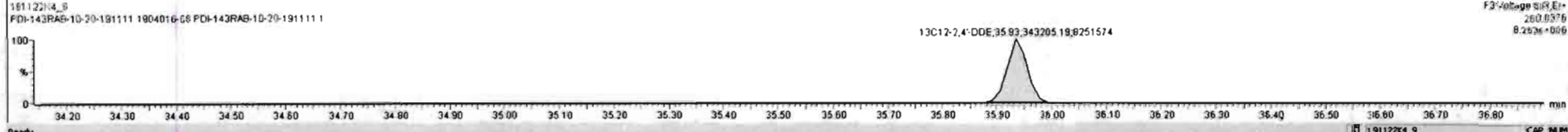
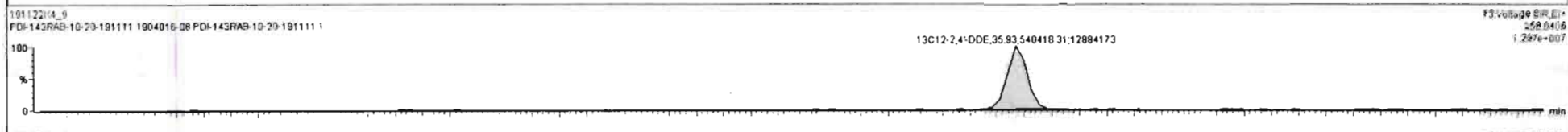
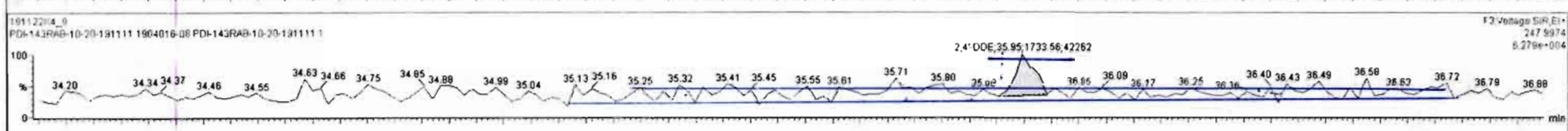
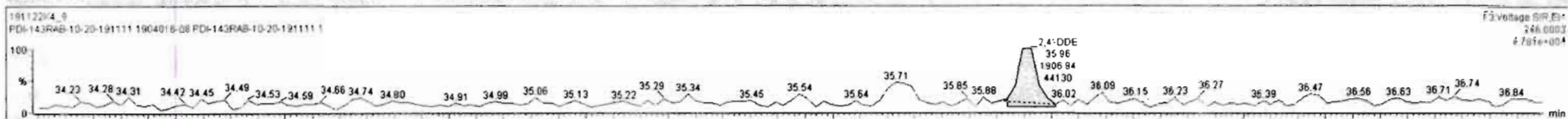
191122K4_9

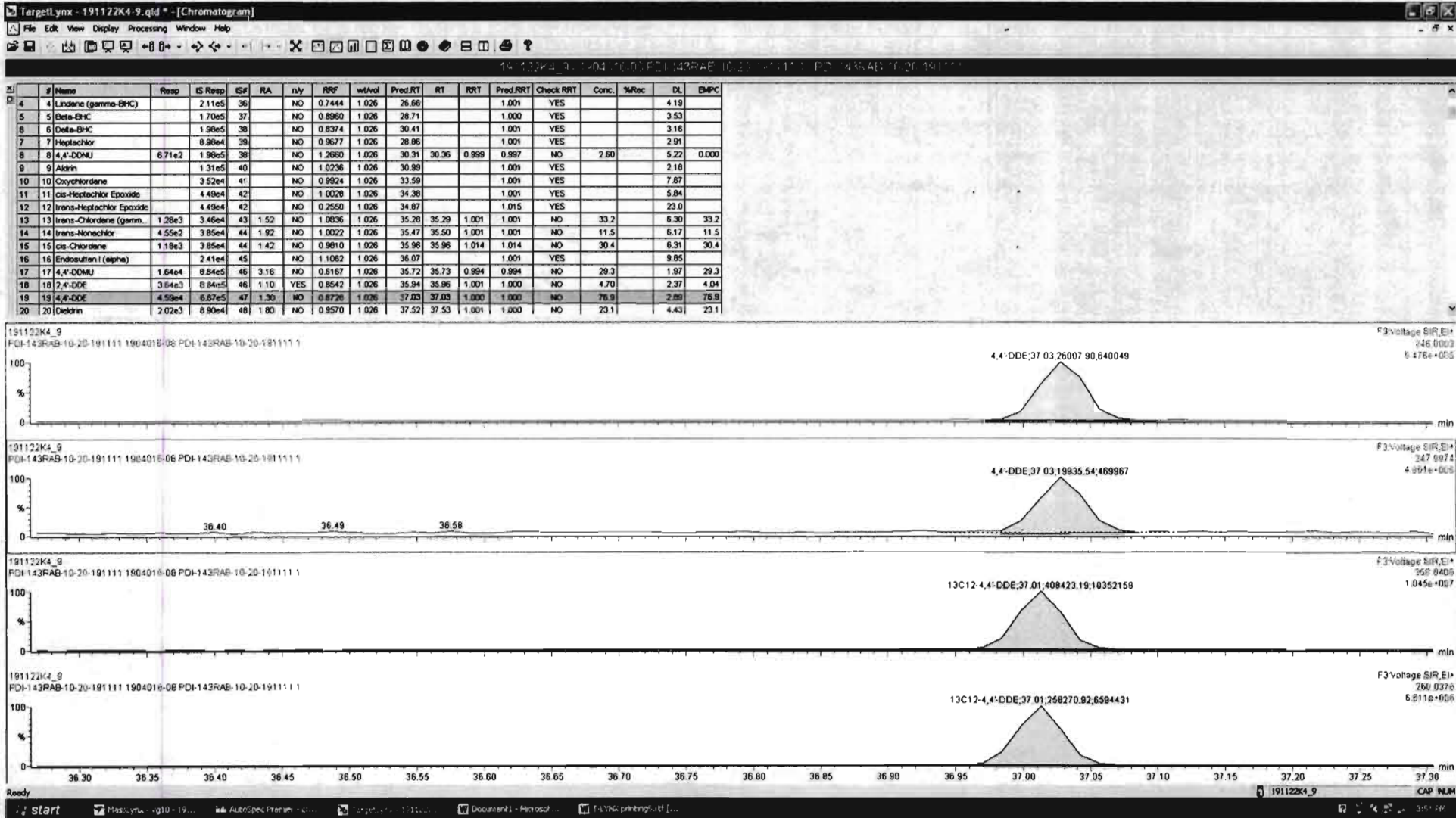


191122K4_9



#	Name	Resp	IS Resp	IS#	RA	nly	RR'	wAval	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
4	Lindane (gamma-BHC)		2.11e5	36		NO	0.7444	1.026	26.66			1.001	YES			4.19	
5	Beta-BHC		1.70e5	37		NO	0.8960	1.026	26.71			1.000	YES			3.53	
6	Delta-BHC		1.98e5	38		NO	0.8374	1.026	30.41			1.001	YES			3.16	
7	Heptachlor		8.98e4	39		NO	0.9677	1.026	26.86			1.001	YES			2.91	
8	4,4'-DDNU	8.71e2	1.98e5	38		NO	1.2660	1.026	30.31	30.36	0.999	0.997	NO	2.60		5.22	0.000
9	Aldrin		1.31e5	40		NO	1.0236	1.026	30.99			1.001	YES			2.18	
10	Oxychlorane		3.52e4	41		NO	0.9924	1.026	33.59			1.001	YES			7.67	
11	cis-Heptachlor Epoxide		4.49e4	42		NO	1.0028	1.026	34.38			1.001	YES			5.84	
12	trans-Heptachlor Epoxide		4.49e4	42		NO	0.2550	1.026	34.87			1.015	YES			23.0	
13	trans-Chlordane (gamma)	1.28e3	3.46e4	43	1.52	NO	1.0836	1.026	35.26	35.29	1.001	1.001	NO	33.2		6.30	33.2
14	trans-Nonachlor	4.55e2	3.85e4	44	1.92	NO	1.0022	1.026	35.47	35.50	1.001	1.001	NO	11.5		6.17	11.5
15	cis-Chlordane	1.18e3	3.85e4	44	1.42	NO	0.9610	1.026	35.96	35.96	1.014	1.014	NO	30.4		6.31	30.4
16	Endosulfan I (alpha)		2.41e4	45		NO	1.1062	1.026	36.07			1.001	YES			9.85	
17	4,4'-DDM	1.64e4	8.84e5	46	3.16	NO	0.6167	1.026	35.72	35.73	0.994	0.994	NO	29.3		1.97	29.3
18	2,4'-DDE	3.64e3	8.84e5	46	1.10	YES	0.9542	1.026	35.94	35.96	1.001	1.000	NO	4.70		2.37	4.04
19	4,4'-DDE	4.57e4	6.67e5	47	1.32	NO	0.8728	1.026	37.03	37.03	1.000	1.000	NO	76.4		2.89	76.5
20	Dieldrin	2.02e3	8.80e4	48	1.80	NO	0.9570	1.026	37.52	37.53	1.001	1.000	NO	23.1		4.43	23.1



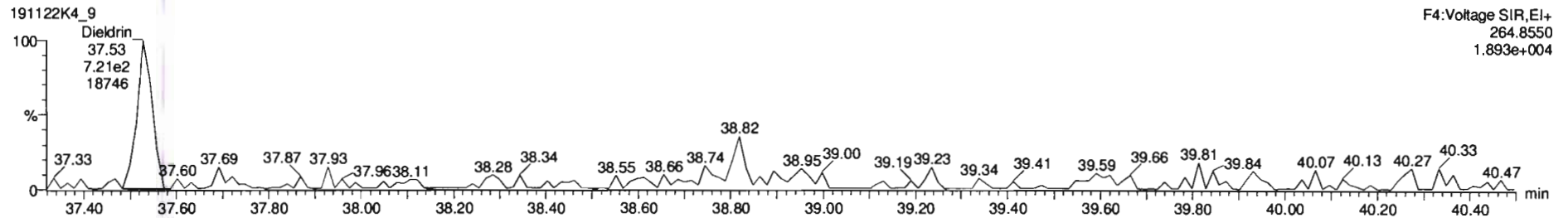
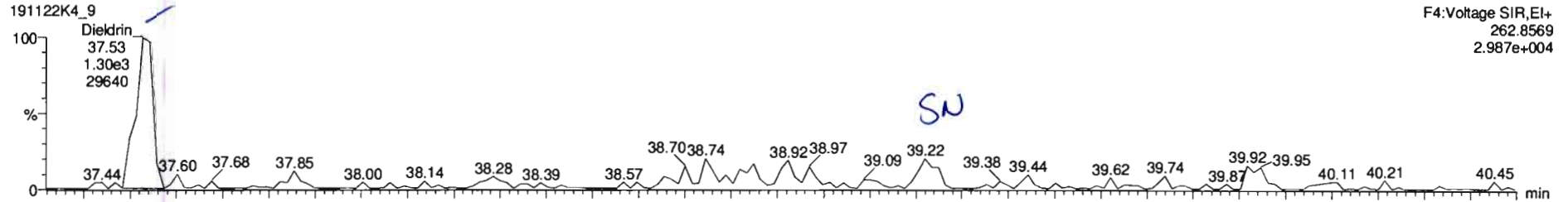


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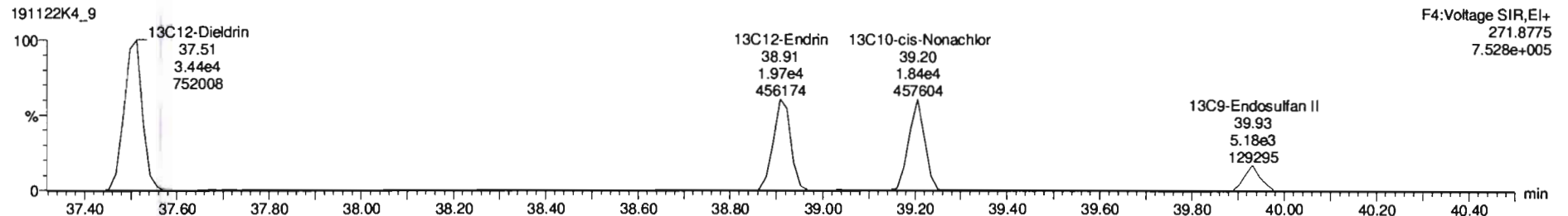
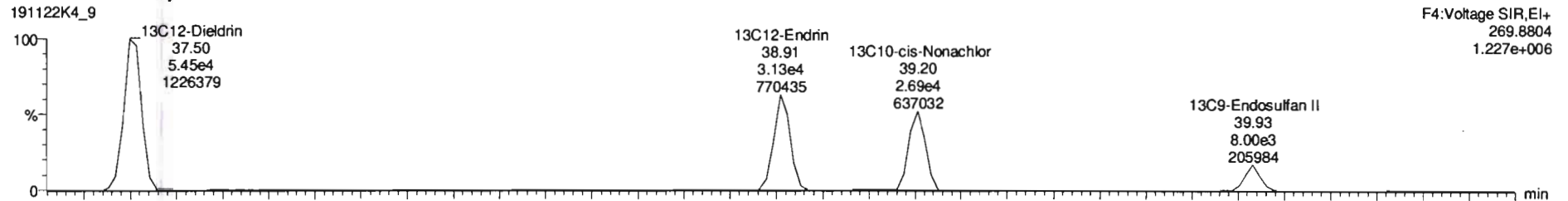
Last Altered: Monday, November 25, 2019 11:28:29 Pacific Standard Time
Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

Name: 191122K4_9, Date: 23-Nov-2019, Time: 15:10:53, ID: 1904016-08 PDI-143RAB-10-20-191111 1, Description: PDI-143RAB-10-20-191111

Dieldrin-EII



Dieldrin-EII-isotopes



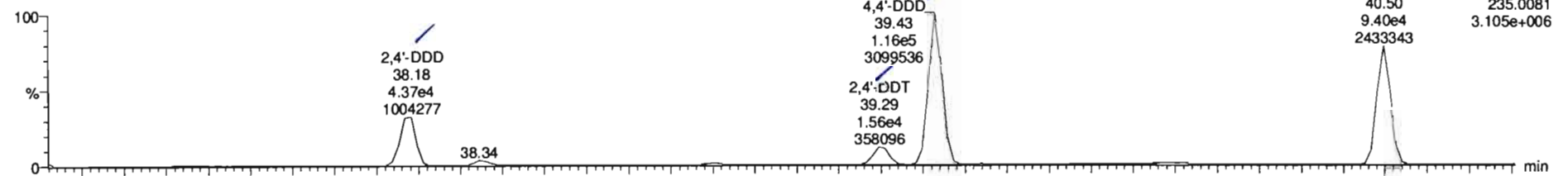
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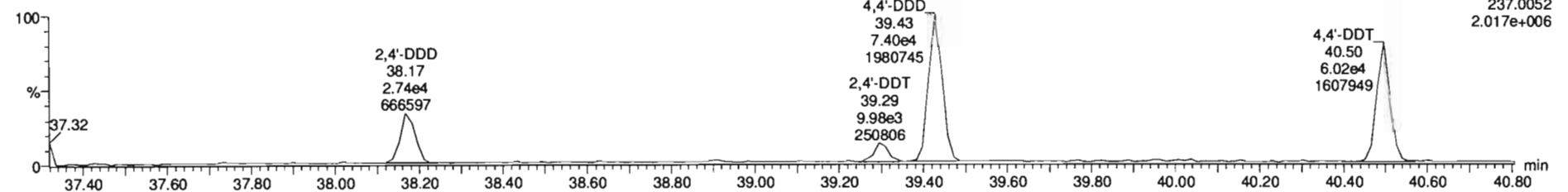
Name: 191122K4_9, Date: 23-Nov-2019, Time: 15:10:53, ID: 1904016-08 PDI-143RAB-10-20-191111 1, Description: PDI-143RAB-10-20-191111

DDD-DDT

191122K4_9

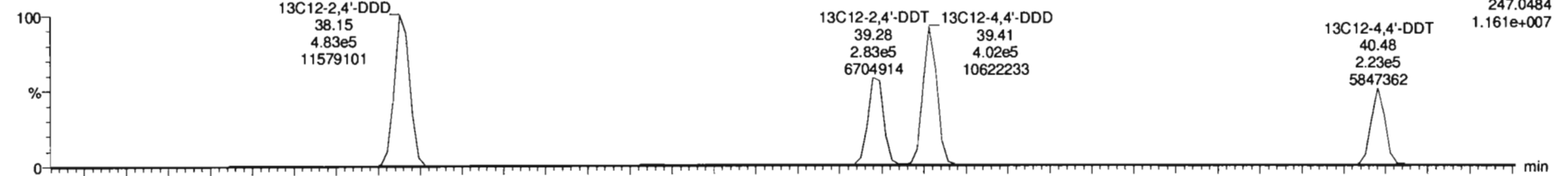


191122K4_9

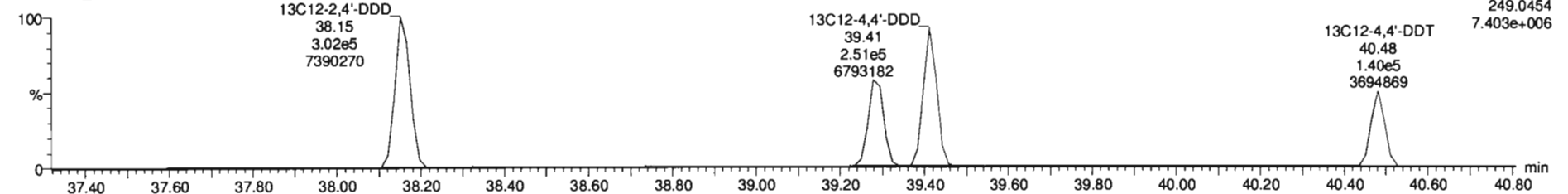


DDD-DDT-isotopes

191122K4_9



191122K4_9



Dataset: Untitled

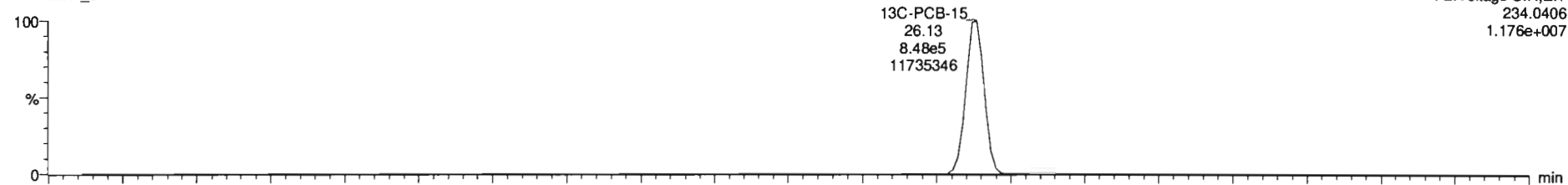
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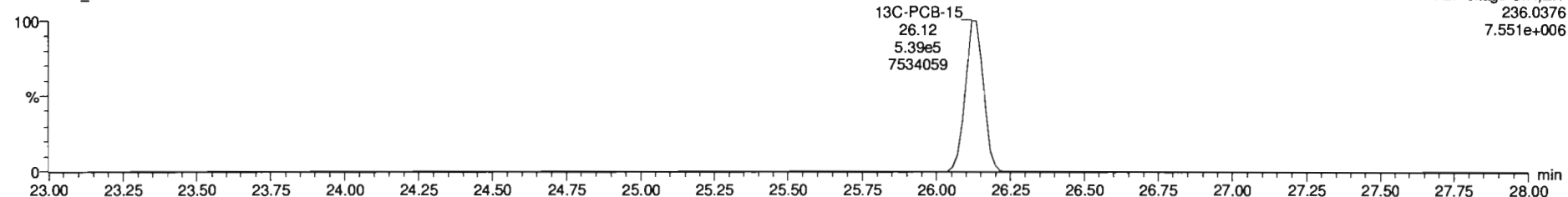
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13C-PCB-15

191122K4_9

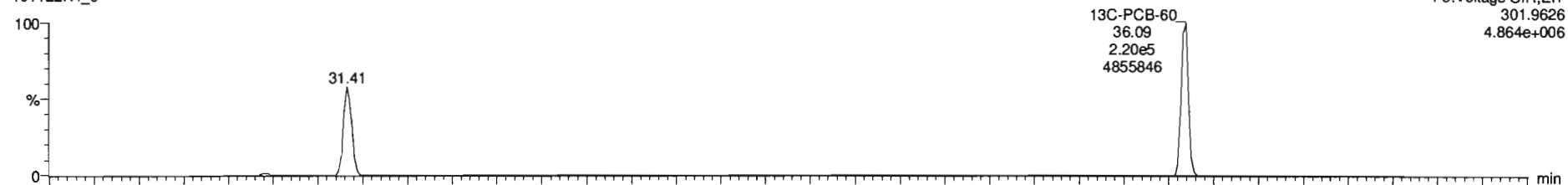


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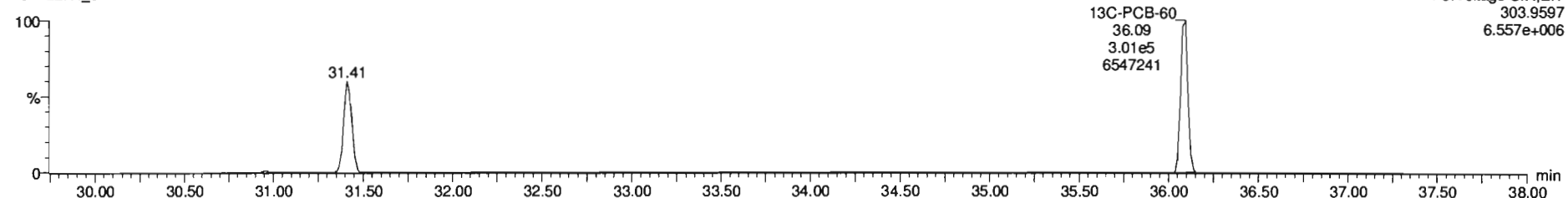


13C-PCB-60

191122K4_9



191122K4_9



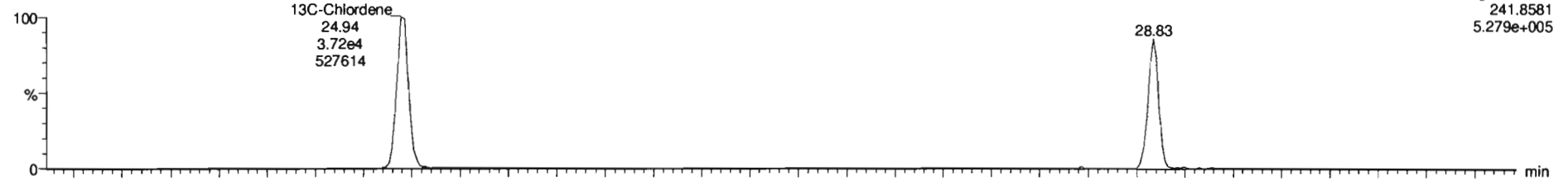
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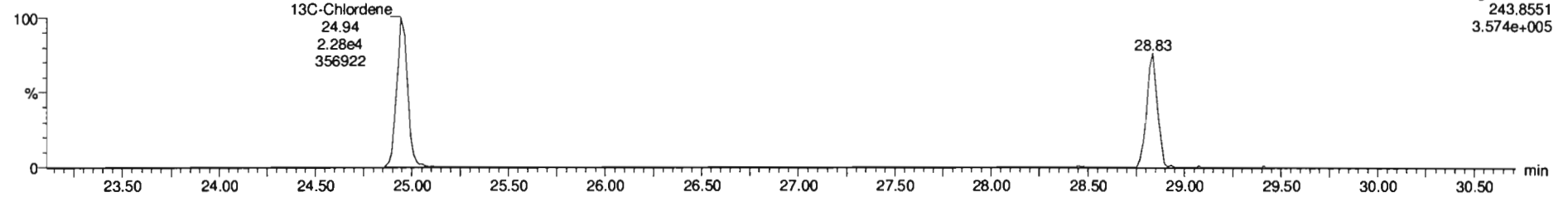
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13C-Chlordene

191122K4_9

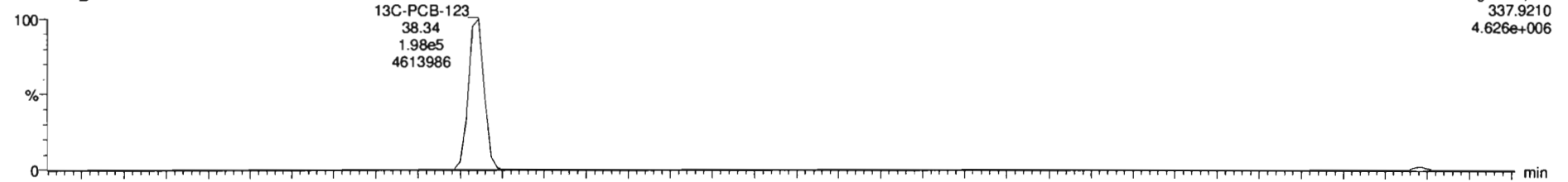


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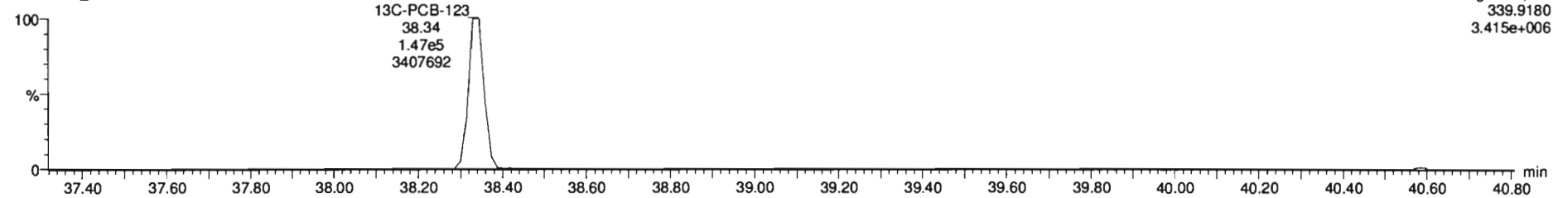


13C-PCB-123

191122K4_9



191122K4_9



Dataset: U:\VG11.PRO\Results\2019\191122K4\191122K4-10B.qld

N 2/7/20

Last Altered: Friday, February 07, 2020 10:38:31 Pacific Standard Time

Printed: Friday, February 07, 2020 10:39:01 Pacific Standard Time

GRB 02/07/2020

C: 02/07/2020

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: 191122K4_10, Date: 23-Nov-2019, Time: 16:00:21, ID: 1904016-09 PDI-143RAB-20-31.1-191111 1, Description: PDI-143RAB-20-31.1-191111

#	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)		2.50e5		NO	0.744	1.005	26.66			1.001	NO			4.81	
2	9 Aldrin	2.54e3	1.27e5	1.66	NO	1.02	1.005	30.99	31.02	1.002	1.001	NO	19.5		3.61	19.5
3	10 Oxychlorane		3.30e4		NO	0.992	1.005	33.59			1.001	YES			12.4	
4	13 trans-Chlordane (gam...	4.73e3	3.42e4	1.66	NO	1.08	1.005	35.30	35.29	1.000	1.001	NO	127		9.95	127
5	14 trans-Nonachlor	2.24e3	3.93e4	1.60	NO	1.00	1.005	35.49	35.49	1.001	1.001	NO	56.5		9.92	56.5
6	15 cis-Chlordane	4.87e3	3.93e4	1.63	NO	0.981	1.005	35.97	35.98	1.014	1.014	NO	126		10.1	126
7	18 2,4'-DDE	4.20e4	9.45e5	1.29	NO	0.854	1.005	35.96	35.96	1.000	1.000	NO	51.8		2.41	51.8
8	19 4,4'-DDE	3.67e5	6.84e5	1.34	NO	0.873	1.005	37.05	37.04	1.000	1.000	NO	611		3.37	611
9	20 Dieldrin	1.66e4	9.13e4	1.59	NO	0.957	1.005	37.53	37.54	1.001	1.000	NO	189		6.36	189
10	22 cis-Nonachlor		4.77e4		NO	0.956	1.005	39.22			1.000	YES			12.2	

Dataset: U:\VG11.PRO\Results\2019\191122K4\191122K4-10B.qld

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Printed: Friday, February 07, 2020 10:39:11 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: 191122K4_10, Date: 23-Nov-2019, Time: 16:00:21, ID: 1904016-09 PDI-143RAB-20-31.1-191111 1, Description: PDI-143RAB-20-31.1-191111

	# 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	6.95e5	7.87e5	1.62	NO	0.915	1.005	38.17	38.18	1.000	1.000	NO	960		4.75	960
2	25 2,4'-DDT	8.80e4	4.50e5	1.65	NO	0.921	1.005	39.31	39.31	1.000	1.000	NO	211		7.77	211
3	26 4,4'-DDD	1.91e6	6.79e5	1.56	NO	1.00	1.005	39.43	39.43	1.000	1.000	NO	2790		5.04	2790
4	27 4,4'-DDT	3.82e5	3.52e5	1.55	NO	0.986	1.005	40.50	40.50	1.000	1.000	NO	1090		9.58	1090
5	36 13C6-Lindane (gamma)	2.50e5	1.66e6	0.78	NO	0.189	1.005	26.64	26.63	1.019	1.020	NO	790	79.5	5.21	
6	40 13C12-Aldrin	1.27e5	1.66e6	1.66	NO	0.122	1.005	30.95	30.96	1.185	1.184	NO	623	62.6	3.45	
7	41 13C10-Oxychlordan	3.30e4	1.66e6	1.68	NO	0.0283	1.005	33.55	33.57	1.285	1.284	NO	697	70.1	14.8	
8	43 13C10-trans-Chlordan...	3.42e4	1.66e6	1.66	NO	0.0292	1.005	35.25	35.28	1.350	1.349	NO	702	70.5	14.4	
9	44 13C10-trans-Nonachlor	3.93e4	1.66e6	1.70	NO	0.0333	1.005	35.44	35.47	1.357	1.356	NO	704	70.8	12.6	

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Printed: Friday, February 07, 2020 10:39:21 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: 191122K4_10, Date: 23-Nov-2019, Time: 16:00:21, ID: 1904016-09 PDI-143RAB-20-31.1-191111 1, Description: PDI-143RAB-20-31.1-191111

	# 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	9.45e5	1.66e6	1.61	NO	0.763	1.005	35.95	35.95	0.996	0.996	NO	740	74.4	4.10	
2	47 13C12-4,4'-DDE	6.84e5	1.66e6	1.61	NO	0.552	1.005	37.01	37.03	1.026	1.026	NO	740	74.4	5.67	
3	48 13C12-Dieldrin	9.13e4	1.66e6	1.66	NO	0.0749	1.005	37.51	37.51	1.039	1.039	NO	728	73.2	11.1	
4	50 13C10-cis-Nonachlor	4.77e4	1.66e6	1.55	NO	0.0389	1.005	39.20	39.20	1.086	1.086	NO	732	73.6	21.3	
5	52 13C12-2,4'-DDD	7.87e5	1.66e6	1.61	NO	0.588	1.005	38.12	38.17	1.460	1.459	NO	800	80.4	10.5	
6	53 13C12-2,4'-DDT	4.50e5	1.66e6	1.63	NO	0.370	1.005	39.25	39.29	1.504	1.502	NO	726	73.0	16.7	
7	54 13C12-4,4'-DDD	6.79e5	1.66e6	1.59	NO	0.473	1.005	39.37	39.41	1.508	1.507	NO	857	86.2	13.0	
8	55 13C12-4,4'-DDT	3.52e5	1.66e6	1.59	NO	0.280	1.005	40.44	40.48	1.549	1.547	NO	750	75.4	22.0	
9	62 13C-PCB-15	1.66e6	1.66e6	1.58	NO	1.00	1.005	26.18	26.13	1.000	1.000	NO	995	100	0.988	

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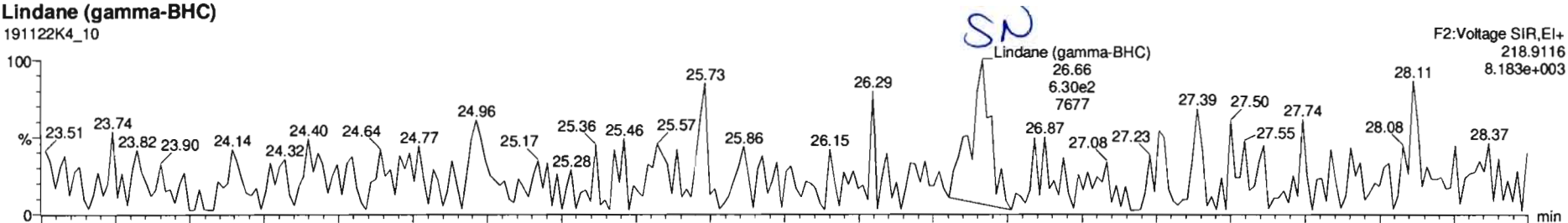
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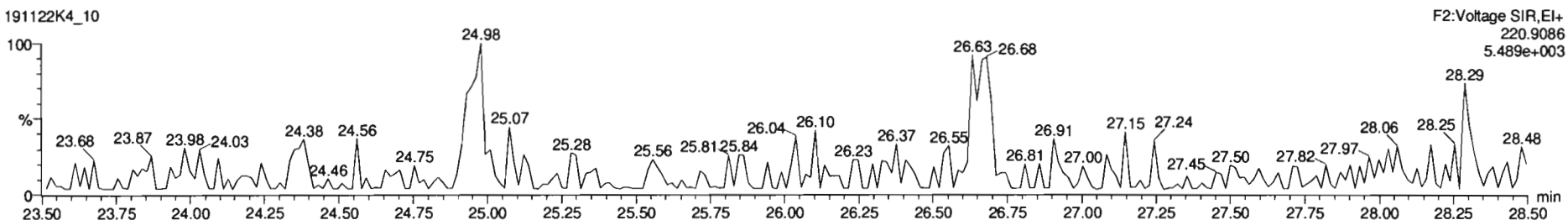
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Lindane (gamma-BHC)

191122K4_10

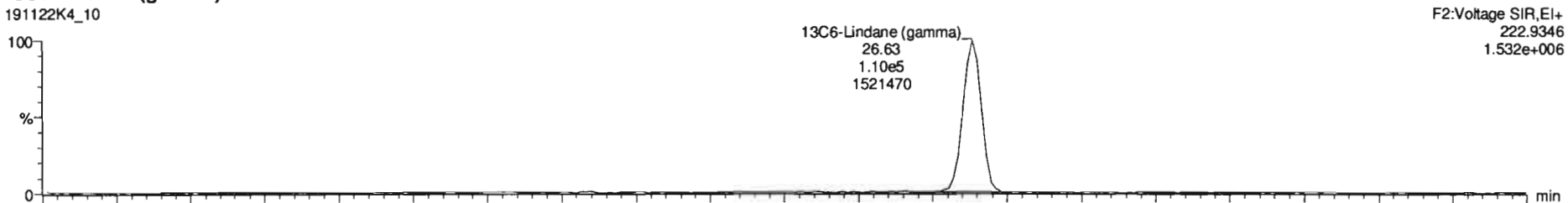


191122K4_10

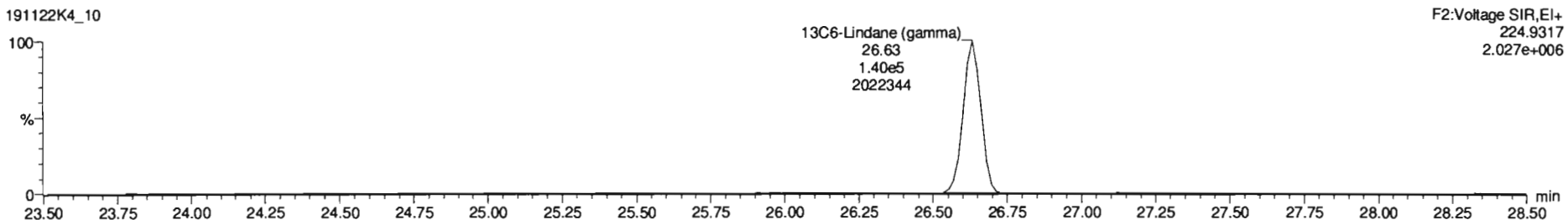


13C6-Lindane (gamma)

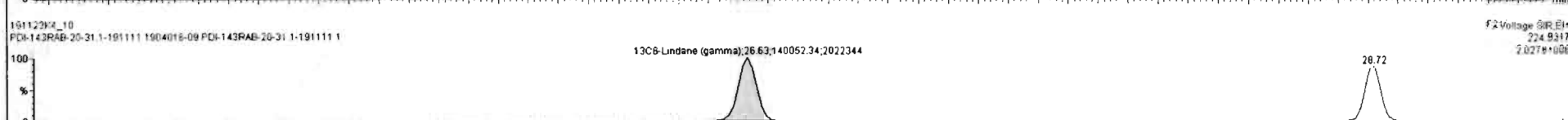
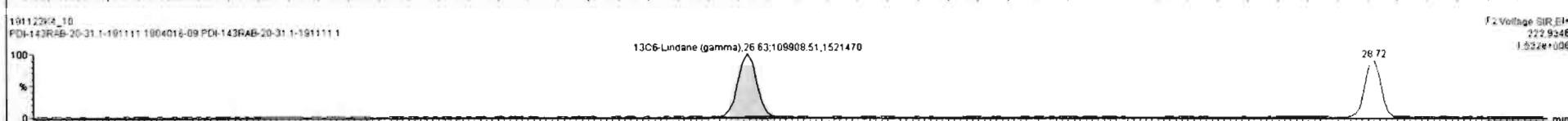
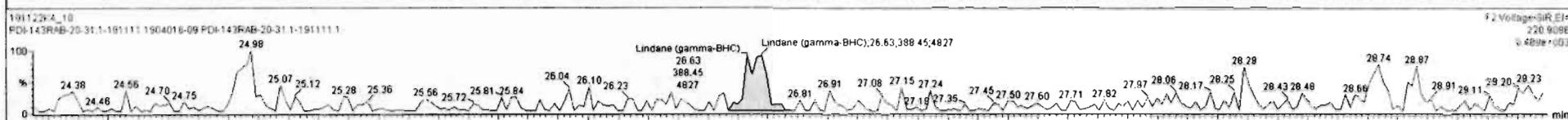
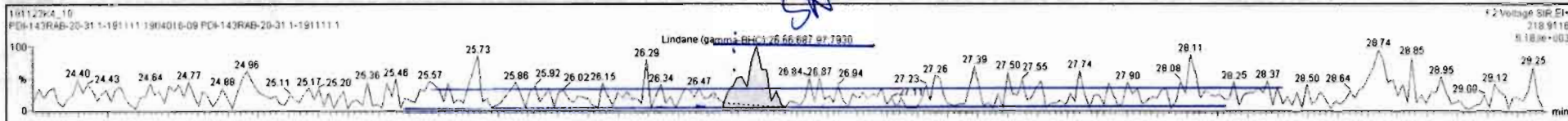
191122K4_10



191122K4_10



#	Name	Resp	IS Resp	ISF	RA	inV	RRF	wtVol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	2.45e4	1.24e6	33	0.25	YES	0.1793	1.005	10.23	10.23	1.000	1.000	NO	1100		3.05	394
2	Hexachlorobenzene	6.09e4	8.39e5	34	1.25	NO	0.8743	1.005	22.85	22.84	1.001	1.001	NO	82.5		0.152	82.5
3	Alpha-BHC	5.39e2	3.12e5	35		NO	0.7805	1.005	23.40	23.39	1.001	1.002	NO	2.25		3.09	0.000
4	Lindane (gamma-BHC)	1.00e3	2.50e5	36	1.77	NO	0.7444	1.005	26.66	26.66	1.001	1.001	NO	5.75		4.81	5.75
5	Beta-BHC		1.90e5	37		NO	0.8960	1.005	28.73			1.000	YES				4.45
6	Delta-BHC		2.18e5	38		NO	0.8374	1.005	30.43			1.001	YES				3.74
7	Heptachlor		1.03e5	39		NO	0.9677	1.005	28.86			1.001	YES				3.58
8	4,4'-DDMU	3.76e3	2.18e5	38		NO	1.2660	1.005	30.33	30.34	0.998	0.997	NO	13.6			6.14
9	Aldrin	2.54e3	1.27e5	40	1.66	NO	1.0236	1.005	30.98	31.02	1.002	1.001	NO	19.5			3.61
10	Orychlorane		3.30e4	41		NO	0.9824	1.005	33.59			1.001	YES				12.4
11	cis-Heptachlor Epoxide		4.68e4	42		NO	1.0028	1.005	34.39			1.001	YES				8.83
12	trans-Heptachlor Epoxide		4.68e4	42		NO	0.2550	1.005	34.88			1.015	YES				34.7
13	trans-Chlordane (gamma)	4.88e3	3.42e4	43	1.65	NO	1.0836	1.005	35.30	35.29	1.000	1.001	NO	131			9.95
14	trans-Nonachlor	2.23e3	3.93e4	44	1.78	NO	1.0022	1.005	35.49	35.49	1.001	1.001	NO	56.3			9.92
15	cis-Chlordane	5.01e3	3.93e4	44	1.38	NO	0.9810	1.005	35.97	35.98	1.014	1.014	NO	129			10.1
16	Endosulfan I (alpha)	2.49e4		45		NO	1.1052	1.005	36.08			1.001	YES				15.0
17	4,4'-DDMU	9.37e4	9.45e5	46	3.22	NO	0.6167	1.005	35.74	35.73	0.994	0.994	NO	160			7.11

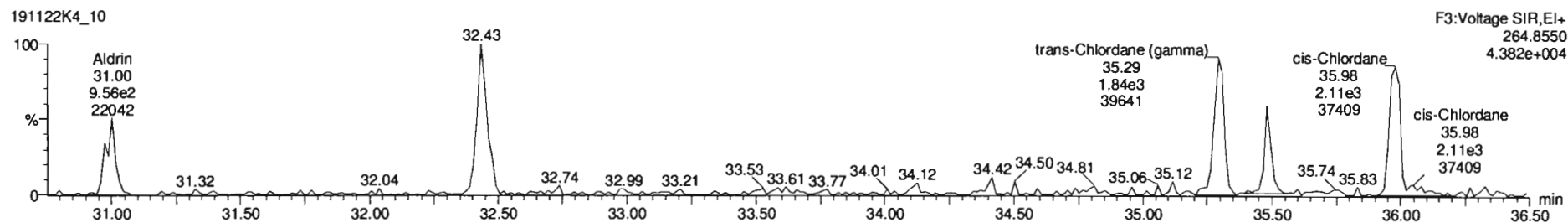
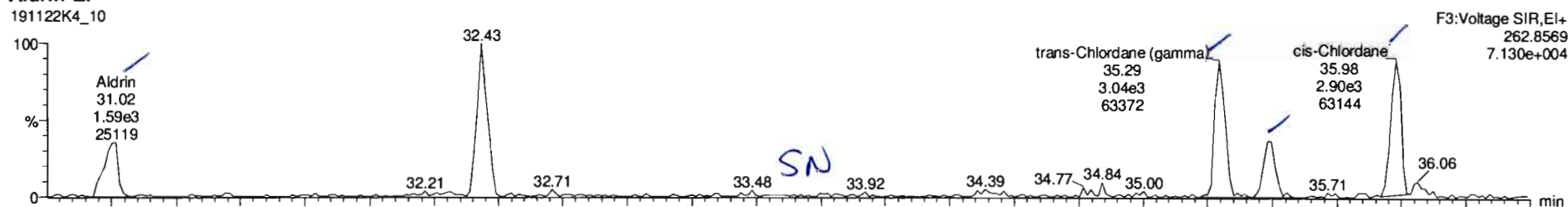


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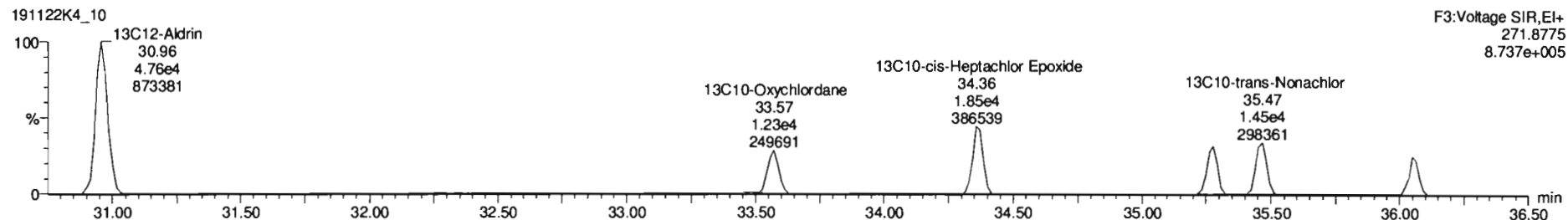
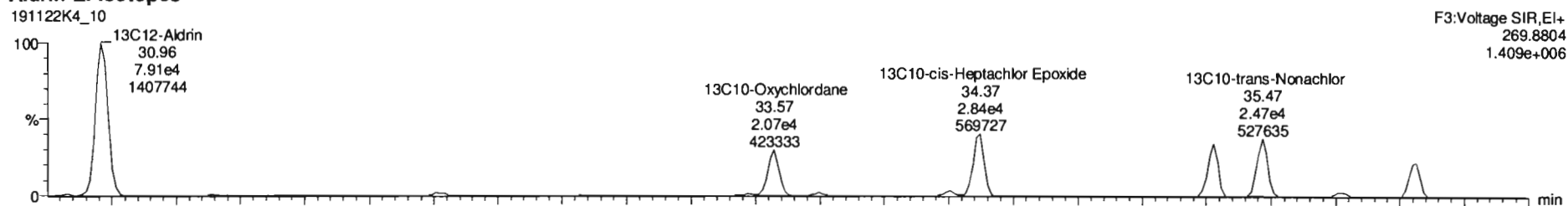
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Name: 191122K4_10, Date: 23-Nov-2019, Time: 16:00:21, ID: 1904016-09 PDI-143RAB-20-31.1-191111 1, Description: PDI-143RAB-20-31.1-191111

Aldrin-EI



Aldrin-EI-isotopes



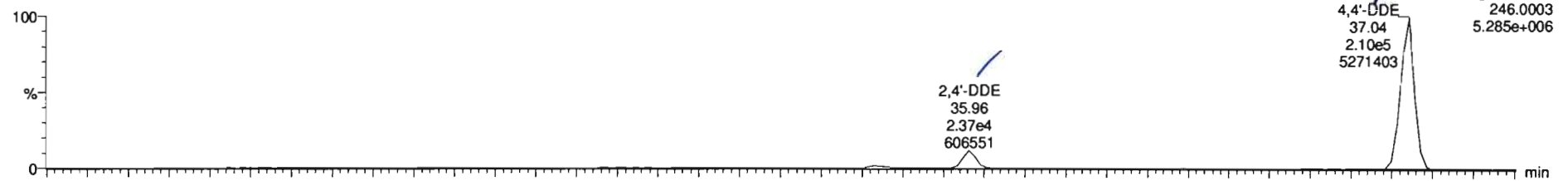
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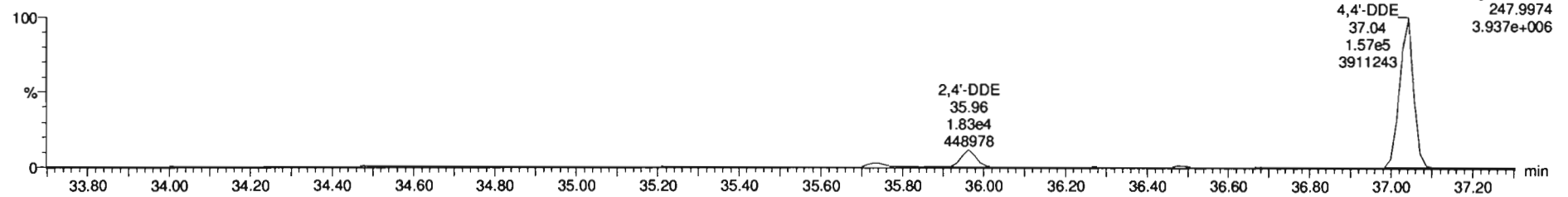
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DDMU-DDE

191122K4_10

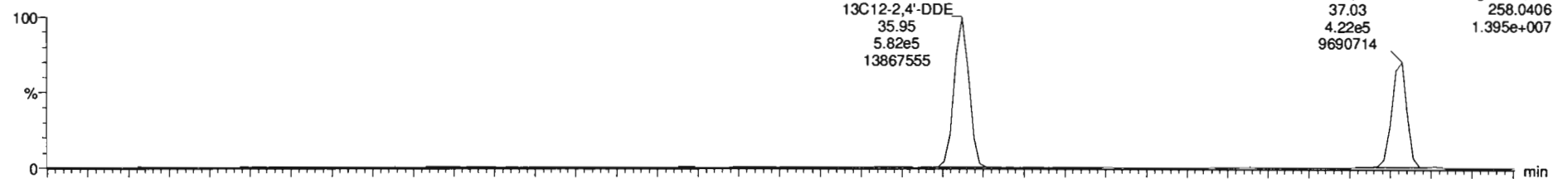


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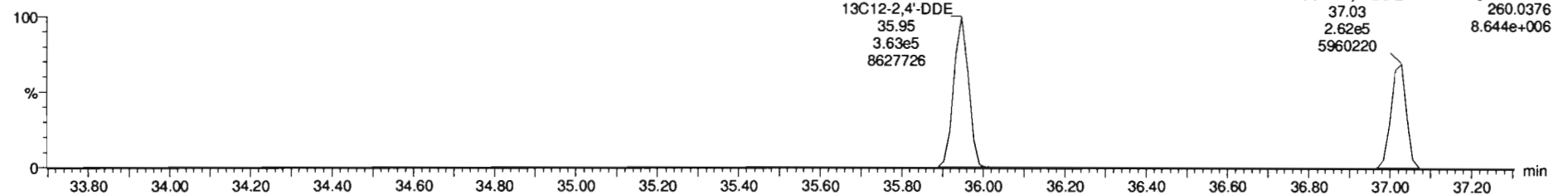


DDE-isotopes

191122K4_10



191122K4_10



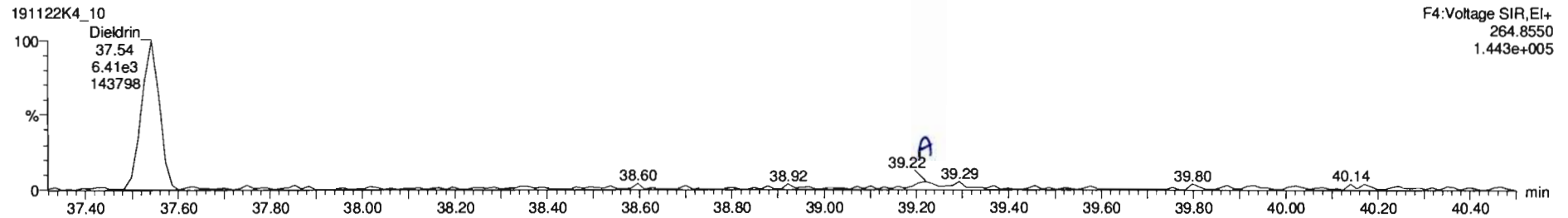
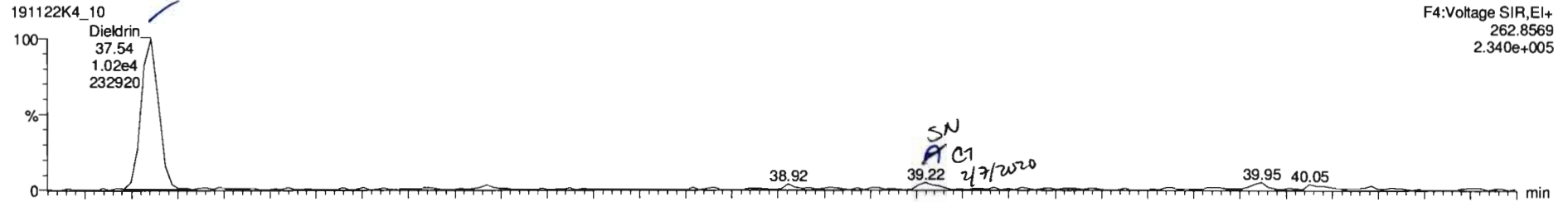
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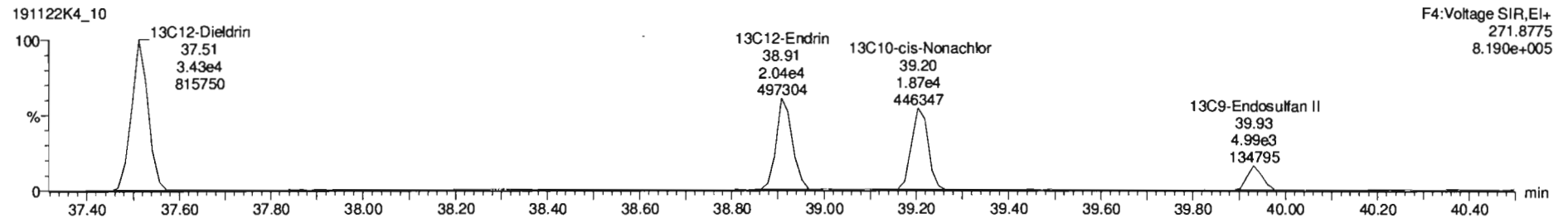
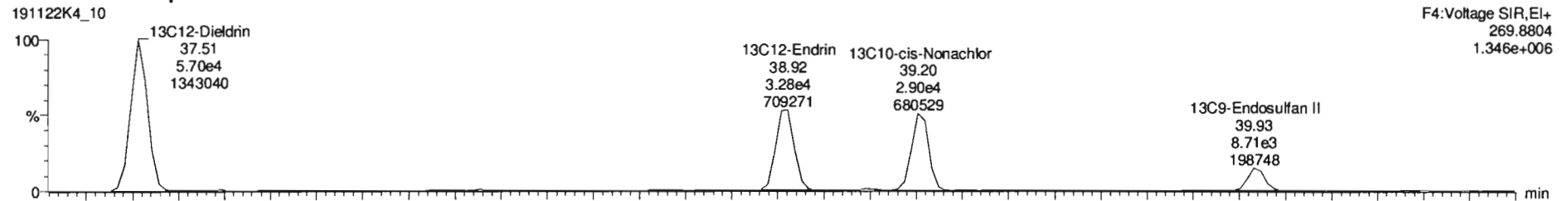
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Dieldrin-EII

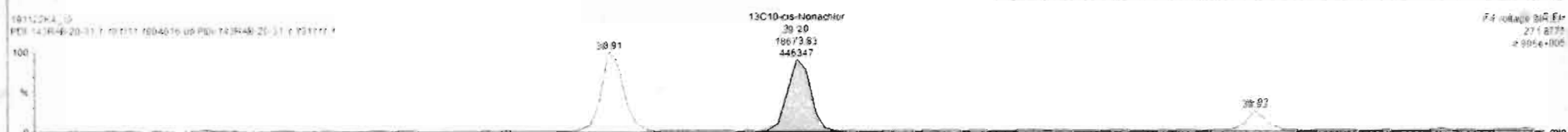
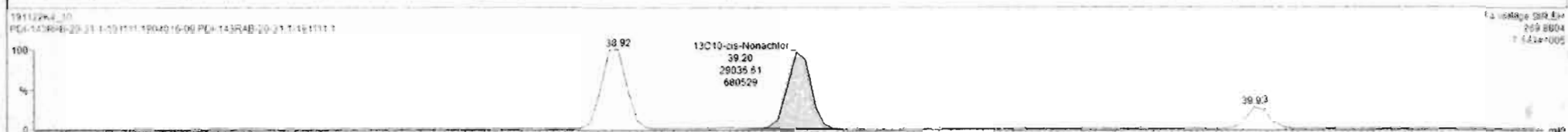
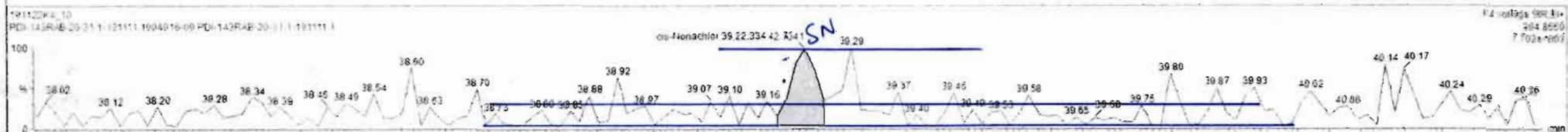
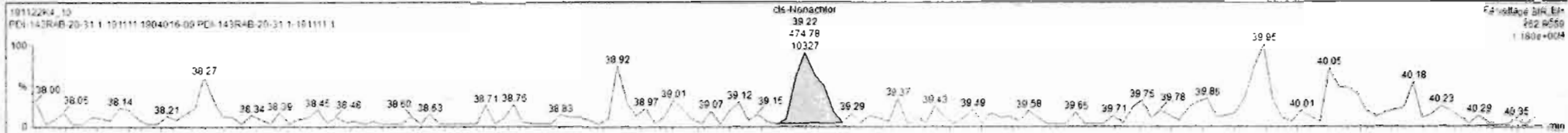


Dieldrin-EII-isotopes



191122K4_10 - 1904016-09 PDI-143RAB-20-31 1-191111 1 - PDI-143RAB-20-31 1-191111

#	Name	Resp	IS Resp	ISL	RA	nly	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Cheer RRT	Conc	%Rec	DL	EMPC
12	trans-Heptachlor Epoxide	4.69e4	42	1.66	NO	0.2550	1.005	34.88				1.015	YES			34.7	
13	trans-Chlordane (gamma)	4.75e3	3.42e4	43	1.66	NO	1.0838	1.005	35.30	35.29	1.000	1.001	NO	127		9.95	127
14	trans-Nonachlor	2.24e3	3.93e4	44	1.60	NO	1.0022	1.005	35.49	35.49	1.001	1.001	NO	56.5		9.92	56.5
15	cis-Chlordane	4.87e3	3.92e4	44	1.63	NO	0.9810	1.005	35.97	35.98	1.014	1.014	NO	126		10.1	126
16	Endosulfan I (alpha)		2.49e4	45	NO	1.1062	1.005	36.09				1.001	YES			15.0	
17	4,4'-DDMU	9.37e4	9.45e4	46	2.22	NO	0.6167	1.005	35.74	35.72	0.994	0.994	NO	160		7.11	160
18	2,4'-DDE	4.20e4	9.45e4	46	1.29	NO	0.6542	1.005	35.96	35.96	1.000	1.000	NO	51.8		2.41	51.8
19	4,4'-DDE	3.67e5	8.64e4	47	1.34	NO	0.9728	1.005	37.05	37.04	1.000	1.000	NO	611		3.37	611
20	Dieldrin	1.06e4	9.13e4	48	1.59	NO	0.9570	1.005	37.53	37.54	1.001	1.000	NO	189		6.30	189
21	Endrin		5.32e4	49	NO	0.9326	1.005	38.92				1.000	YES			12.2	
22	cis-Nonachlor	8.09e2	4.77e4	50	1.42	NO	0.9556	1.005	38.22	38.22	1.000	1.000	NO	17.7		12.2	17.7
23	Endosulfan I (beta)		1.37e4	51	NO	1.0639	1.005	39.93				1.500	YES			39.4	



Dataset: Untitled

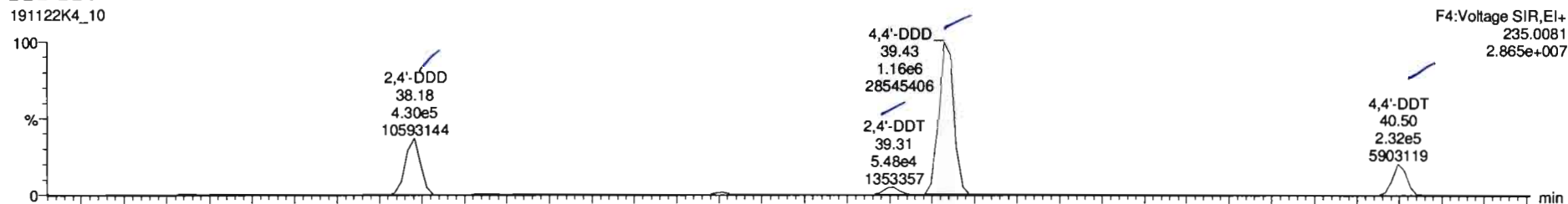
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Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

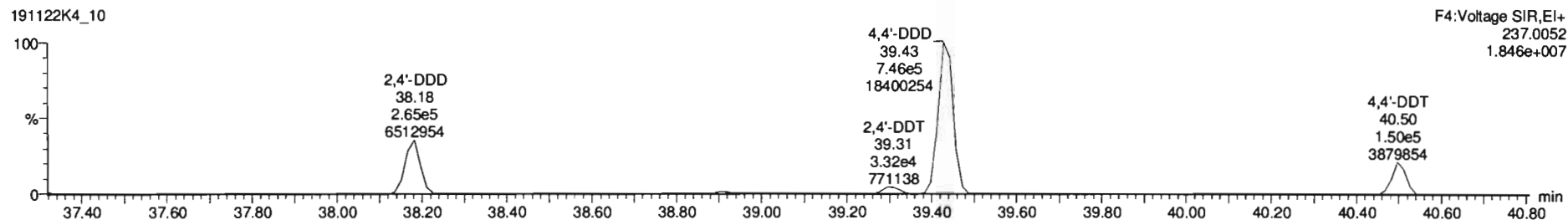
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DDD-DDT

191122K4_10

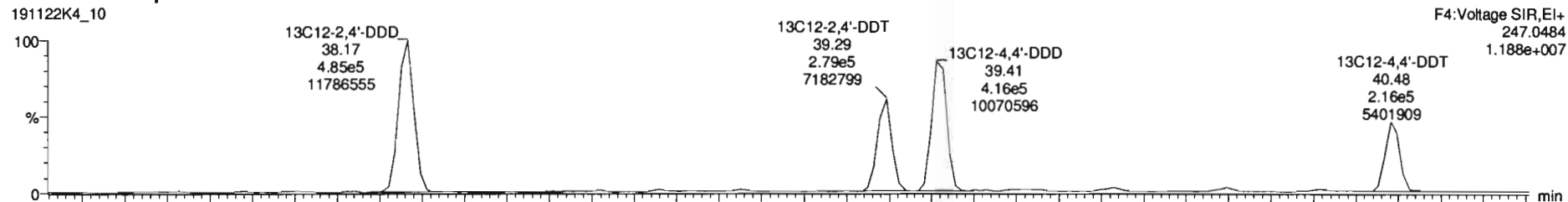


191122K4_10

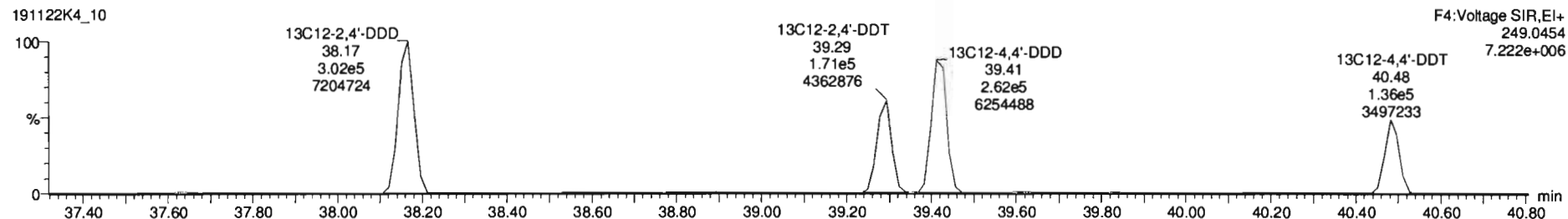


DDD-DDT-isotopes

191122K4_10



191122K4_10



Dataset: Untitled

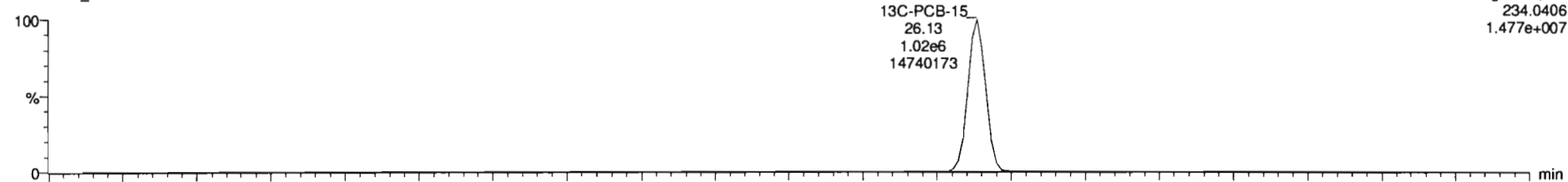
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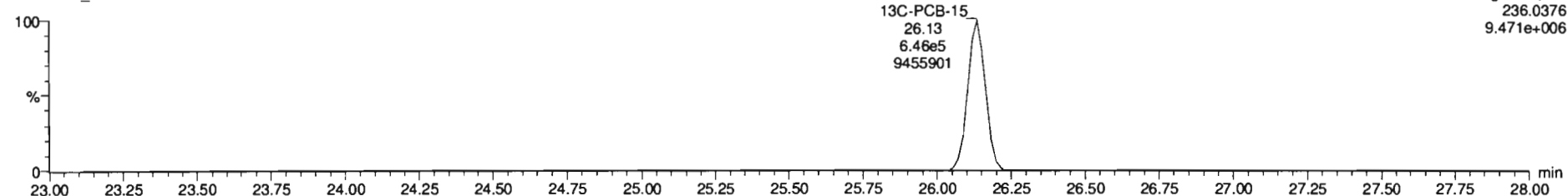
Name: 191122K4_10, Date: 23-Nov-2019, Time: 16:00:21, ID: 1904016-09 PDI-143RAB-20-31.1-191111 1, Description: PDI-143RAB-20-31.1-191111

13C-PCB-15

191122K4_10

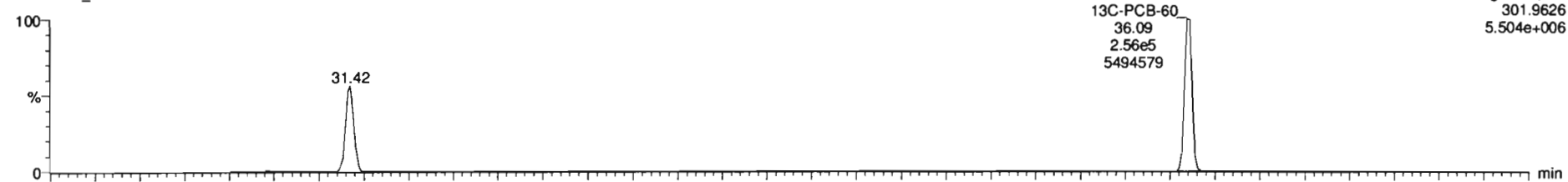


191122K4_10

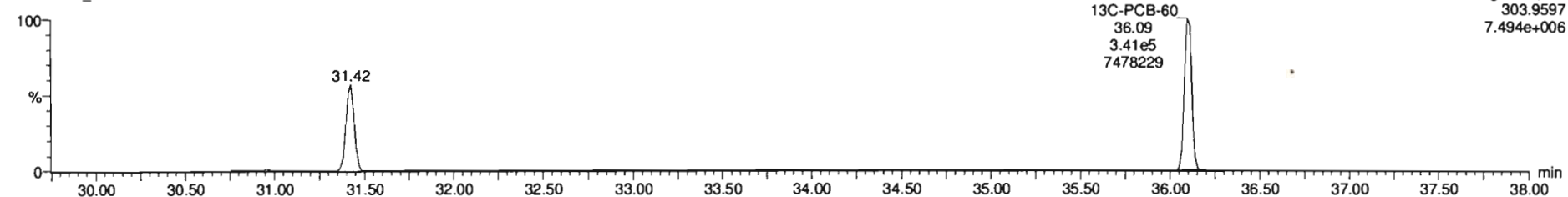


13C-PCB-60

191122K4_10



191122K4_10



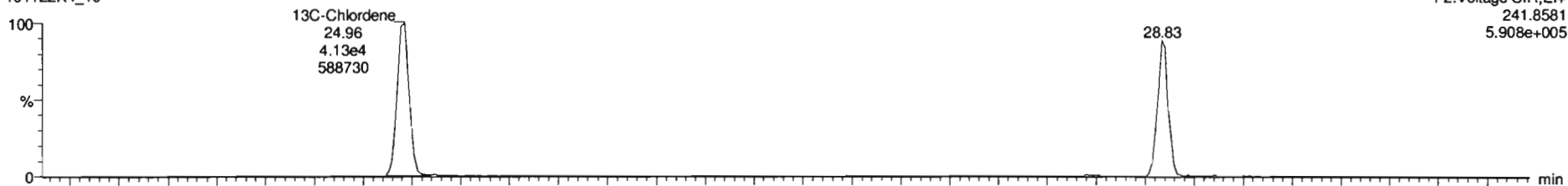
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Last Altered: Monday, November 25, 2019 11:28:29 Pacific Standard Time
Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

Name: 191122K4_10, Date: 23-Nov-2019, Time: 16:00:21, ID: 1904016-09 PDI-143RAB-20-31.1-191111 1, Description: PDI-143RAB-20-31.1-191111

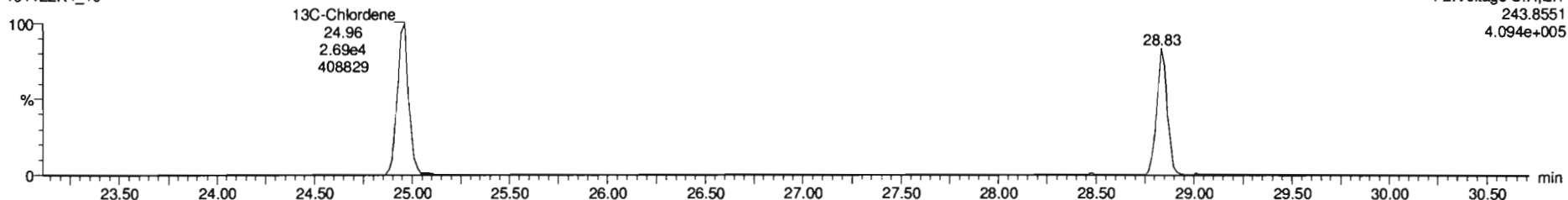
13C-Chlordene

191122K4_10



F2:Voltage SIR,EI+
241.8581
5.908e+005

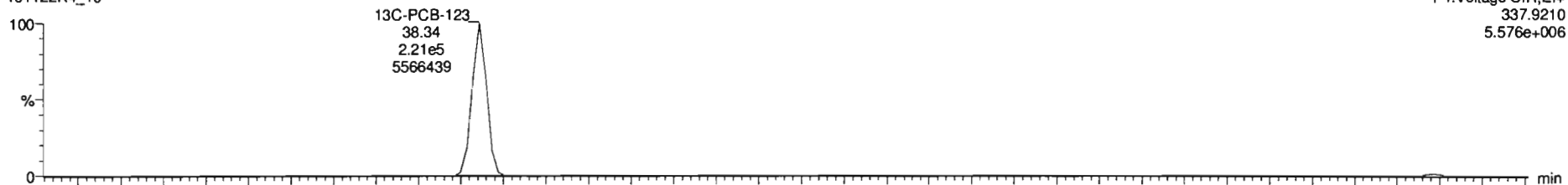
191122K4_10



F2:Voltage SIR,EI+
243.8551
4.094e+005

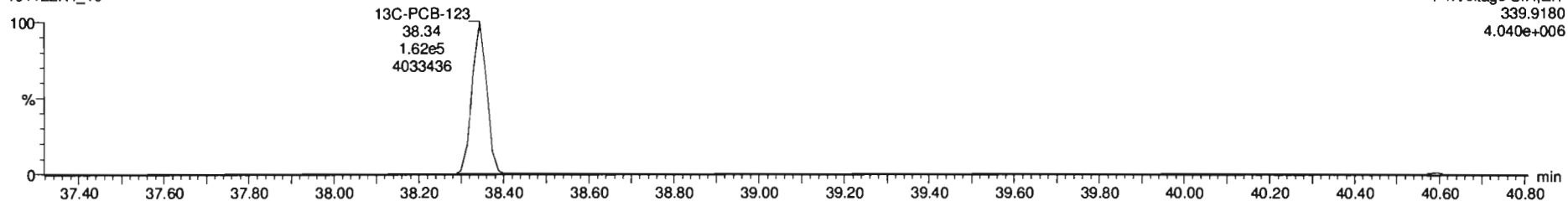
13C-PCB-123

191122K4_10



F4:Voltage SIR,EI+
337.9210
5.576e+006

191122K4_10

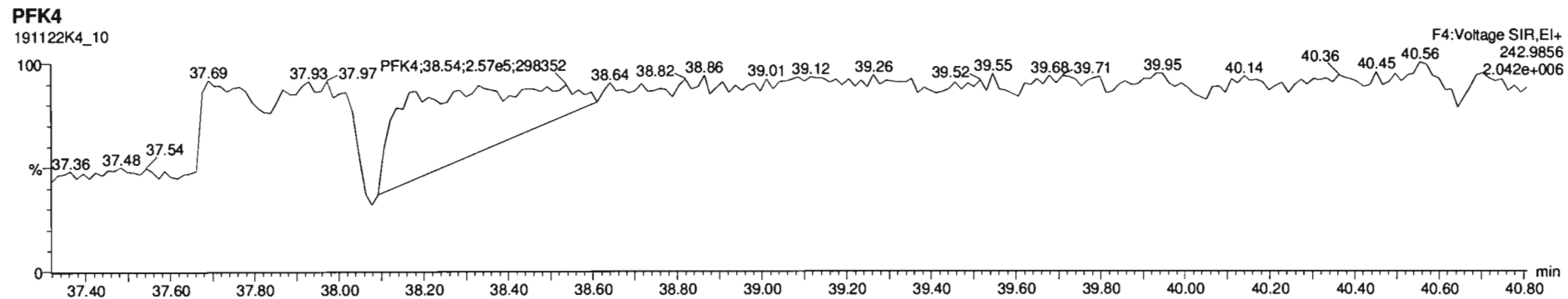
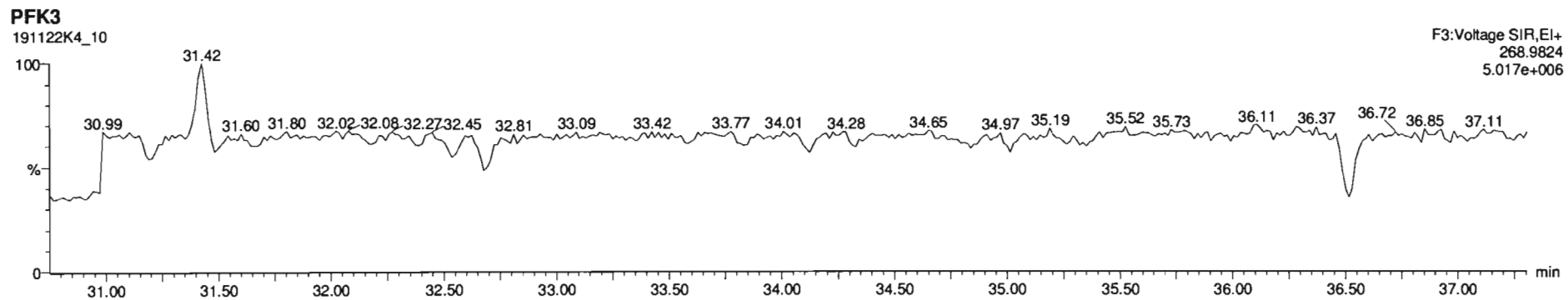
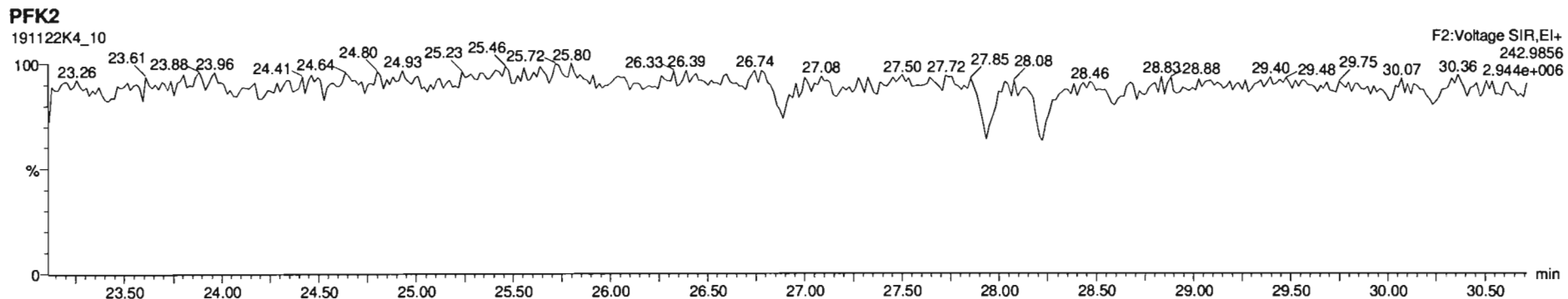


F4:Voltage SIR,EI+
339.9180
4.040e+006

Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:28:29 Pacific Standard Time
Printed: Monday, November 25, 2019 11:28:34 Pacific Standard Time

Name: 191122K4_10, Date: 23-Nov-2019, Time: 16:00:21, ID: 1904016-09 PDI-143RAB-20-31.1-191111 1, Description: PDI-143RAB-20-31.1-191111



CONTINUING CALIBRATION

HKMS CALIBRATION STANDARDS REVIEW CHECKLIST

Begin Calibration ID: ST191204D1-1

Reviewed By: EL 12/6/19

Initials & Date

End Calibration ID: ST191204D2-1

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

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GC Break <20%		<input type="checkbox"/> <u>NA</u>
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> <u>NA</u>

Comments:
(A) see ST191204D1-1 CCAL checklist. EL 12/6/19

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

CCAL ID: ST191204D1-1

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191204D1 S#1 Analysis Date: 4-DEC-19 Time: 17:47:03

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	0.79	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	0.63	0.54-0.72	y	48.1	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	48.0	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	50.0	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.21	1.05-1.43	y	49.5	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.01	0.88-1.20	y	47.2	43.0 - 58.0
OCDD	M+2/M+4	0.88	0.76-1.02	y	99.2	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.74	0.65-0.89	y	9.12	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.67	1.32-1.78	y	48.9	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.64	1.32-1.78	y	47.9	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	45.0	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	45.4	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	47.3	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	46.2	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.00	0.88-1.20	y	45.2	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88-1.20	y	45.3	43.0 - 58.0
OCDF	M+2/M+4	0.87	0.76-1.02	y	91.6	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: JBDate: 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: 191204D1 S#1 Analysis Date: 4-DEC-19 Time: 17:47:03

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	105	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	113	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.33	1.05-1.43	y	113	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	94.5	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	102	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	112	72.0 - 138.0
13C-OCDD	M/M+2	0.89	0.76-1.02	y	253	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.80	0.65-0.89	y	99.7	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	117	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	114	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	119	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	102	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	99.5	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	106	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.44	0.37-0.51	y	97.1	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.43	0.37-0.51	y	112	77.0 - 129.0
13C-OCDF	M+2/M+4	0.87	0.76-1.02	y	249	96.0 - 415.0
CLEANUP STANDARD (3) 37C1-2,3,7,8-TCDD					9.72	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: ST191204D1-1

Contract No.:

SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191204D1 S#1 Analysis Date: 4-DEC-19 Time: 17:47:03

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC.	CONC.
	FORMING	ABUND.	LIMITS		FOUND	RANGE
	RATIO	RATIO				(ng/mL)
2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	10.6	8.00 - 12.0
1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	48.1	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	48.0	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	50.0	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.21	1.05-1.43	y	49.5	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.01	0.88-1.20	y	47.2	40.0 - 60.0
OCDD	M+2/M+4	0.88	0.76-1.02	y	99.2	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.74	0.65-0.89	y	9.12	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.67	1.32-1.78	y	48.9	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.64	1.32-1.78	y	47.9	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	45.0	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	45.4	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	47.3	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	46.2	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.00	0.88-1.20	y	45.2	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88-1.20	y	45.3	40.0 - 60.0
OCDF	M+2/M+4	0.87	0.76-1.02	y	91.6	80.0 - 120

Analyst: JBDate: 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: 191204D1 S#1 Analysis Date: 4-DEC-19 Time: 17:47:03

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	105	70.0 - 130
13C-1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	113	70.0 - 130
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.33	1.05-1.43	y	113	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	94.5	70.0 - 130
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	102	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	112	70.0 - 130
13C-OCDD	M+2/M+4	0.89	0.76-1.02	y	253	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	99.7	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	117	70.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	114	70.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	119	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	102	70.0 - 130
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	99.5	70.0 - 130
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	106	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.37-0.51	y	97.1	70.0 - 130
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.43	0.37-0.51	y	112	70.0 - 130
13C-OCDF	M+2/M+4	0.87	0.76-1.02	y	249	140 - 260
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD					9.72	7.00 - 13.0

Analyst: JBDate: 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: 191204D1 S#1 Analysis Date: 4-DEC-19 Time: 17:47:03

ZB-5MS IS Data Filename: 191204D1 S#1 Analysis Date: 4-DEC-19 Time: 17:47:03

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)	22:42	1,3,6,8-TCDF (F)	20:34
1,2,8,9-TCDD (L)	26:58	1,2,8,9-TCDF (L)	27:06
1,2,4,7,9-PeCDD (F)	28:34	1,3,4,6,8-PeCDF (F)	27:04
1,2,3,8,9-PeCDD (L)	30:59	1,2,3,8,9-PeCDF (L)	31:13
1,2,4,6,7,9-HxCDD (F)	32:24	1,2,3,4,6,8-HxCDF (F)	31:52
1,2,3,7,8,9-HxCDD (L)	34:19	1,2,3,7,8,9-HxCDF (L)	34:42
1,2,3,4,6,7,9-HpCDD (F)	36:56	1,2,3,4,6,7,8-HpCDF (F)	36:32
1,2,3,4,6,7,8-HpCDD (L)	37:47	1,2,3,4,7,8,9-HpCDF (L)	38:20

(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: 191204D1 S#1 Analysis Date: 4-DEC-19 Time: 17:47:03

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME		RRT	RRT
	REFERENCE	RRT	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	1.001	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	1.199	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	1.188	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: 191204D1 S#1 Analysis Date: 4-DEC-19 Time: 17:47:03

NATIVE ANALYTES	RETENTION TIME		RRT	RRT
	REFERENCE	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	1.000	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	1.092	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: 12/5/19

Client ID: 1613 CS3 19C2204
Lab ID: ST191204D1-1

Filename: 191204D1 S:1 Acq: 4-DEC-19 17:47:03
GC Column ID: ZB-5MS ICAL: 1613VG7-10-9-19 wt/vol: 1.000

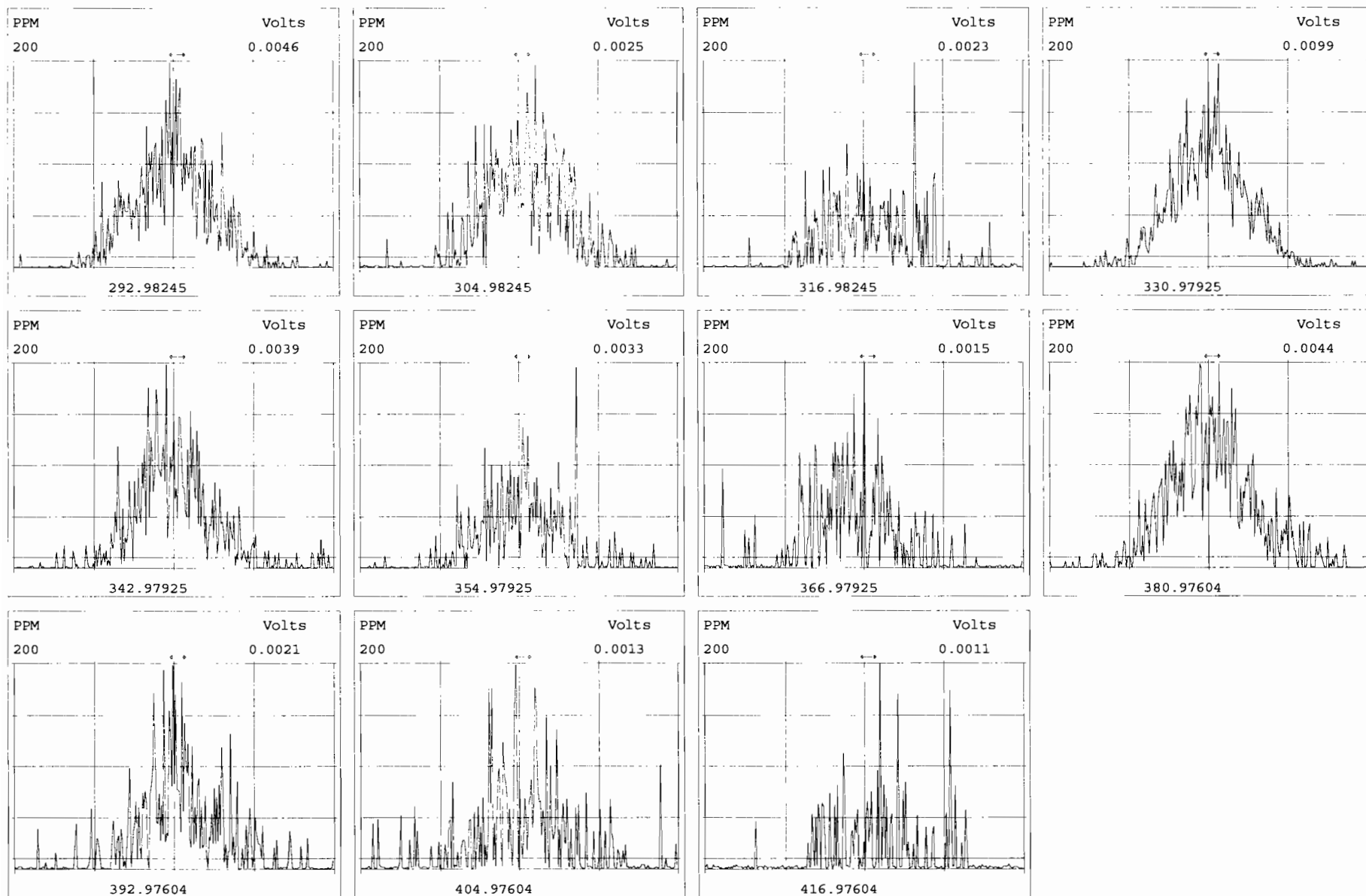
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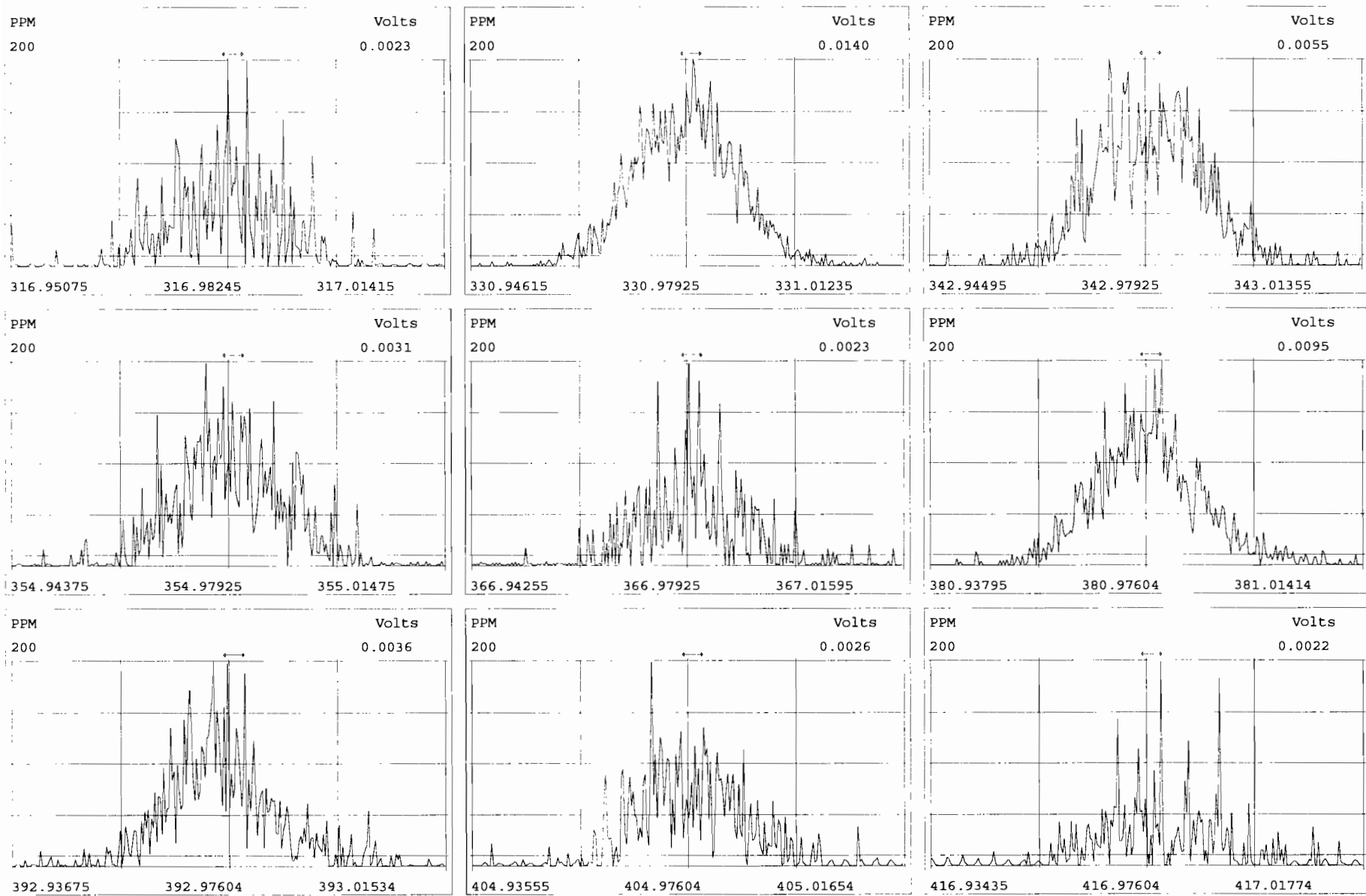
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	7.41e+05	0.79 y	0.91	26:07	10.584		*	2.5	*	Total Tetra-Dioxins	76.6	79.6		*	*
1,2,3,7,8-PeCDD	2.91e+06	0.63 y	0.90	30:37	48.052		*	2.5	*	Total Penta-Dioxins	192	192		*	*
1,2,3,4,7,8-HxCDD	2.88e+06	1.23 y	1.10	33:55	48.008		*	2.5	*	Total Hexa-Dioxins	216	218		*	*
1,2,3,6,7,8-HxCDD	2.86e+06	1.25 y	0.94	34:02	49.967		*	2.5	*	Total Hepta-Dioxins	110	111		*	*
1,2,3,7,8,9-HxCDD	2.96e+06	1.21 y	0.96	34:19	49.531		*	2.5	*	Total Tetra-Furans	35.9	38.5		*	*
1,2,3,4,6,7,8-HpCDD	2.55e+06	1.01 y	0.98	37:47	47.186		*	2.5	*	Total Penta-Furans	213.18	214.56		*	*
OCDD	5.25e+06	0.88 y	0.96	41:03	99.215		*	2.5	*	Total Hexa-Furans	243	244		*	*
										Total Hepta-Furans	90.8	92.0		*	*
2,3,7,8-TCDF	9.53e+05	0.74 y	0.95	25:19	9.1176		*	2.5	*						
1,2,3,7,8-PeCDF	5.01e+06	1.67 y	0.96	29:27	48.935		*	2.5	*						
2,3,4,7,8-PeCDF	5.03e+06	1.64 y	1.01	30:20	47.948		*	2.5	*						
1,2,3,4,7,8-HxCDF	3.97e+06	1.22 y	1.18	33:02	45.014		*	2.5	*						
1,2,3,6,7,8-HxCDF	3.87e+06	1.21 y	1.07	33:09	45.433		*	2.5	*						
2,3,4,6,7,8-HxCDF	3.76e+06	1.24 y	1.11	33:45	47.254		*	2.5	*						
1,2,3,7,8,9-HxCDF	3.24e+06	1.24 y	1.06	34:42	46.241		*	2.5	*						
1,2,3,4,6,7,8-HpCDF	2.83e+06	1.00 y	1.13	36:32	45.245		*	2.5	*						
1,2,3,4,7,8,9-HpCDF	2.84e+06	1.04 y	1.28	38:20	45.274		*	2.5	*						
OCDF	5.61e+06	0.87 y	0.95	41:16	91.602		*	2.5	*						
IS	13C-2,3,7,8-TCDD	7.73e+06	0.79 y	1.10	26:05	105.29				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	6.70e+06	0.64 y	0.88	30:36	113.43				105					
IS	13C-1,2,3,4,7,8-HxCDD	5.45e+06	1.33 y	0.64	33:54	112.65				113					
IS	13C-1,2,3,6,7,8-HxCDD	6.09e+06	1.23 y	0.86	34:01	94.465				113					
IS	13C-1,2,3,7,8,9-HxCDD	6.22e+06	1.24 y	0.81	34:19	102.27				94.5					
IS	13C-1,2,3,4,6,7,8-HpCDD	5.52e+06	1.07 y	0.65	37:47	112.06				102					
IS	13C-OCDD	1.10e+07	0.89 y	0.58	41:02	252.79				112					
IS	13C-2,3,7,8-TCDF	1.10e+07	0.80 y	1.03	25:18	99.661				126					
IS	13C-1,2,3,7,8-PeCDF	1.07e+07	1.61 y	0.85	29:26	116.94				99.7					
IS	13C-2,3,4,7,8-PeCDF	1.03e+07	1.61 y	0.85	30:20	114.28				117					
IS	13C-1,2,3,4,7,8-HxCDF	7.49e+06	0.49 y	0.83	33:01	119.47				114					
IS	13C-1,2,3,6,7,8-HxCDF	7.97e+06	0.51 y	1.03	33:09	102.14				119					
IS	13C-2,3,4,6,7,8-HxCDF	7.15e+06	0.50 y	0.95	33:44	99.460				102					
IS	13C-1,2,3,7,8,9-HxCDF	6.59e+06	0.51 y	0.83	34:41	105.68				99.5					
IS	13C-1,2,3,4,6,7,8-HpCDF	5.54e+06	0.44 y	0.76	36:31	97.080				106					
IS	13C-1,2,3,4,7,8,9-HpCDF	4.90e+06	0.43 y	0.58	38:19	111.86				97.1					
IS	13C-OCDF	1.29e+07	0.87 y	0.69	41:15	249.01				112					
C/Up	37Cl-2,3,7,8-TCDD	7.80e+05		1.20	26:07	9.7166				125					
RS/RT	13C-1,2,3,4-TCDD	6.71e+06	0.82 y	1.00	25:32	100.00				97.2					
RS	13C-1,2,3,4-TCDF	1.07e+07	0.79 y	1.00	24:05	100.00									
RS/RT	13C-1,2,3,4,6,9-HxCDF	7.54e+06	0.51 y	1.00	33:26	100.00									

Integrations
by DB
Analyst: DB
Reviewed
by EL
Analyst: EL
Date: 12/5/19
Date: 12/6/19

Vista Analytical Laboratory - Injection Log Run file: 191204D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

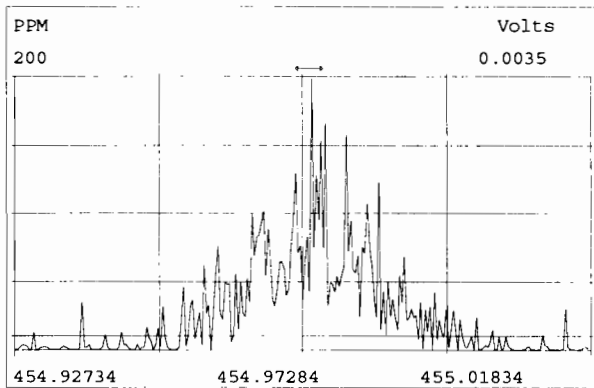
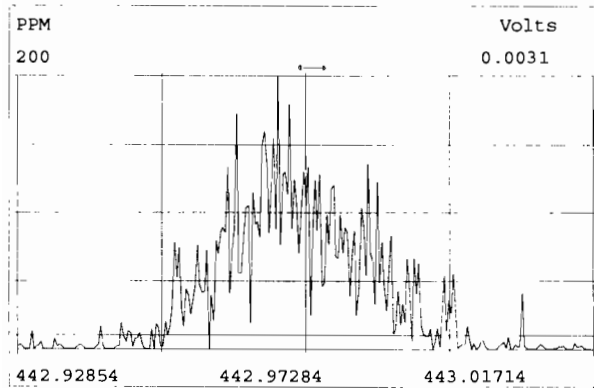
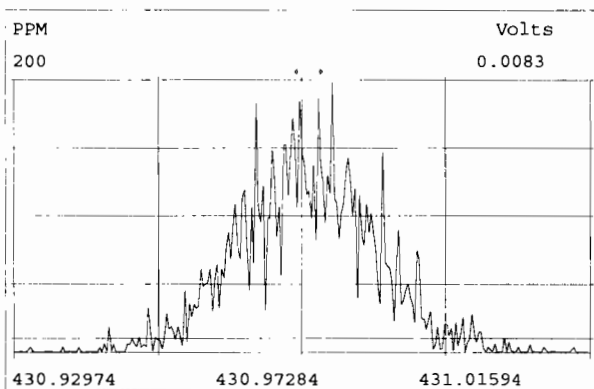
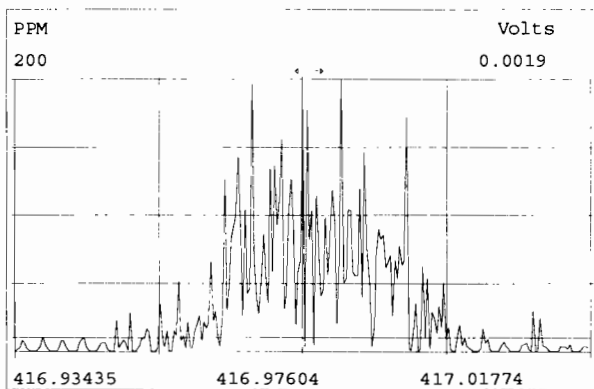
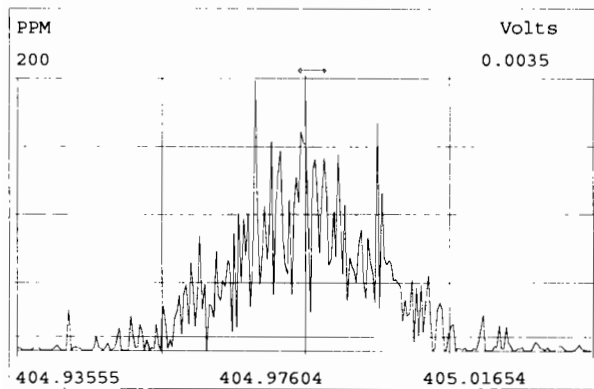
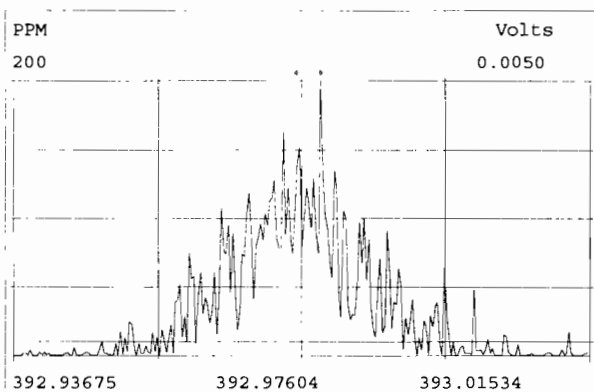
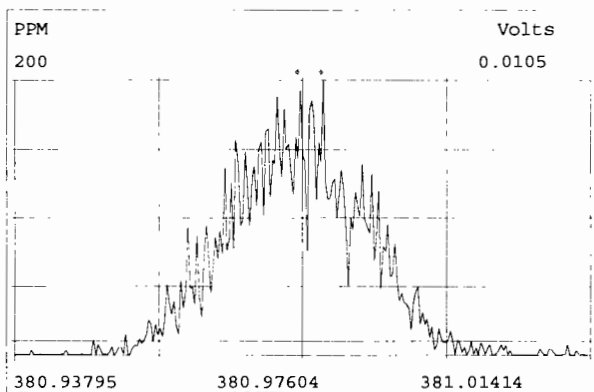
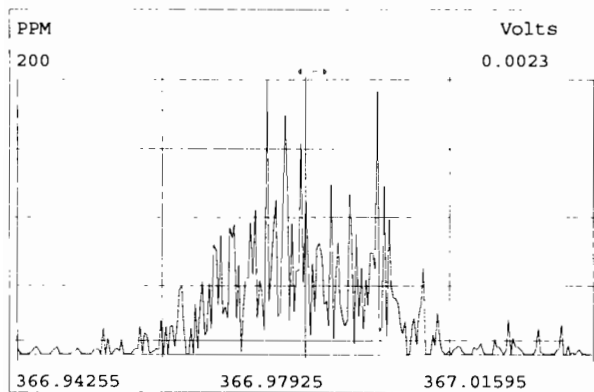
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191204D1	2	B9K0253-BS1	DB	4-DEC-19	18:34:47	ST191204D1-1	ST191204D2-1
191204D1	3	B9K0253-MS1	DB	4-DEC-19	19:22:38	ST191204D1-1	ST191204D2-1
191204D1	4	B9K0253-MSD1	DB	4-DEC-19	20:10:23	ST191204D1-1	ST191204D2-1
191204D1	5	SOLVENT BLANK	DB	4-DEC-19	20:58:08	NA	NA
191204D1	6	B9K0253-BLK1	DB	4-DEC-19	21:45:53	ST191204D1-1	ST191204D2-1
191204D1	7	1904016-01	DB	4-DEC-19	22:33:38	ST191204D1-1	NA
191204D1	8	1904016-02	DB	4-DEC-19	23:21:23	ST191204D1-1	NA
191204D1	9	1903908-01	DB	5-DEC-19	00:09:07	ST191204D1-1	ST191204D2-1
191204D1	10	1903921-01	DB	5-DEC-19	00:56:51	ST191204D1-1	NA
191204D1	11	1903905-01	DB	5-DEC-19	01:44:46	ST191204D1-1	ST191204D2-1
191204D1	12	1903905-02	DB	5-DEC-19	02:32:30	ST191204D1-1	ST191204D2-1
191204D1	13	1903905-03	DB	5-DEC-19	03:20:24	ST191204D1-1	ST191204D2-1
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191204D1	15	1903905-05	DB	5-DEC-19	04:56:14	ST191204D1-1	ST191204D2-1
191204D1	16	SOLVENT BLANK	DB	5-DEC-19	05:44:03	NA	NA
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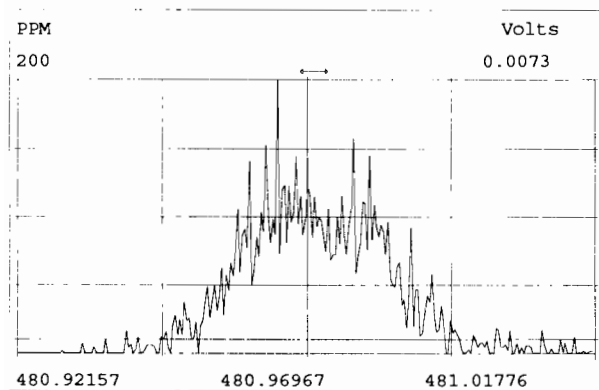
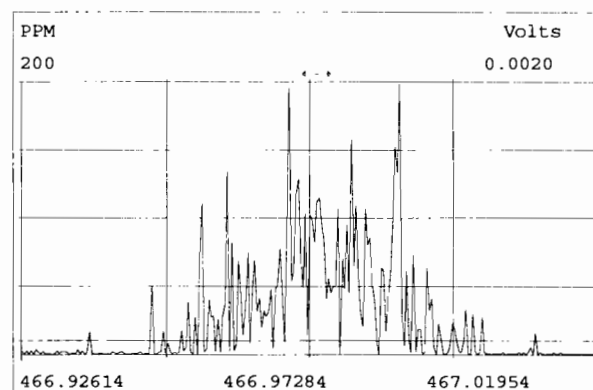
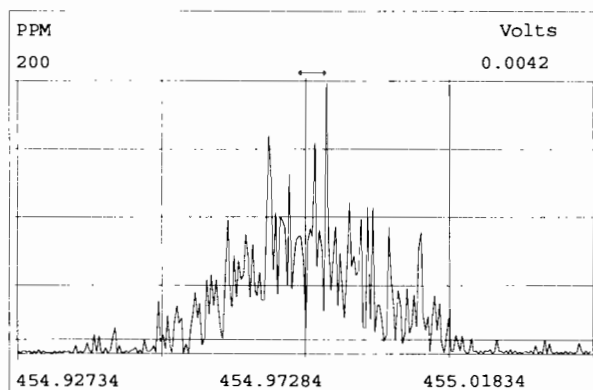
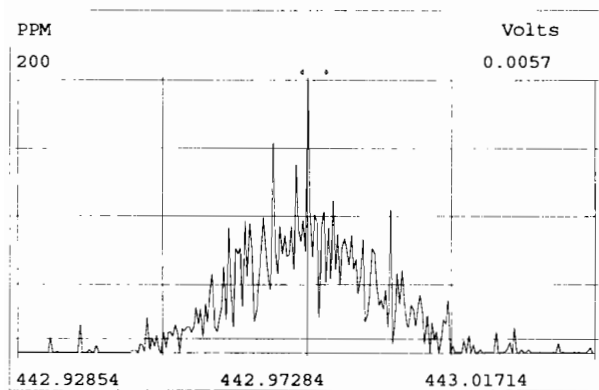
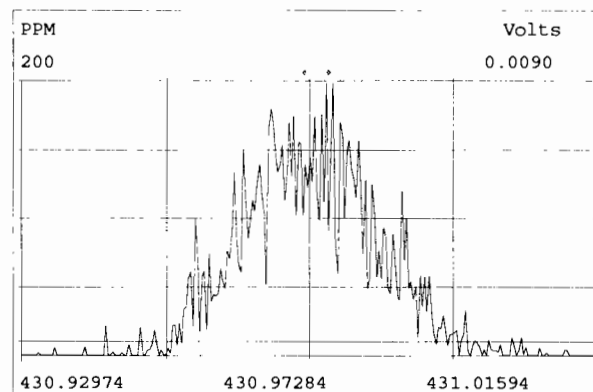
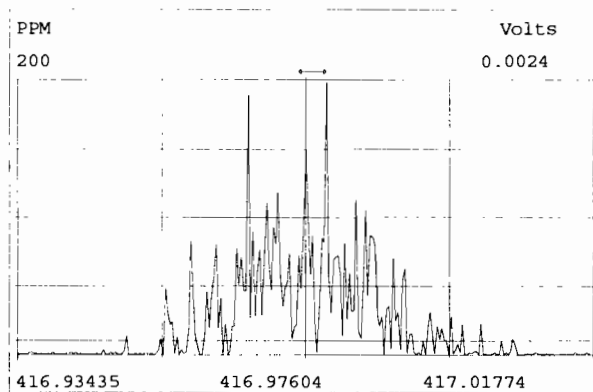
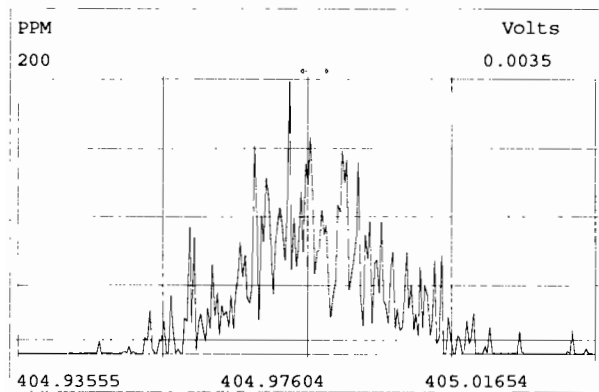
Peak Locate Examination: 4-DEC-2019:17:45 File:191204D1

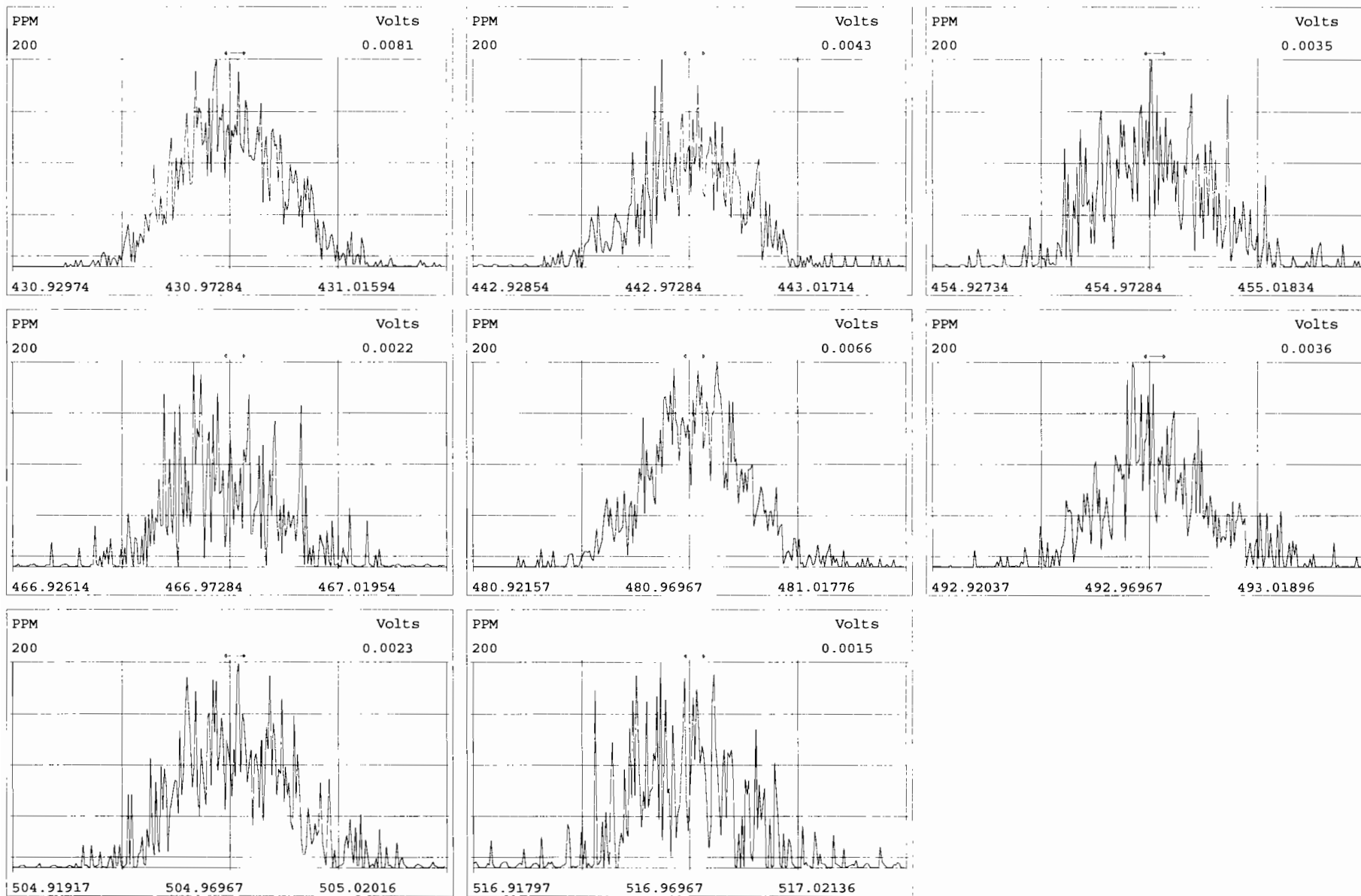
Experiment:OCDD_DB5 Function:3 Reference:PFK



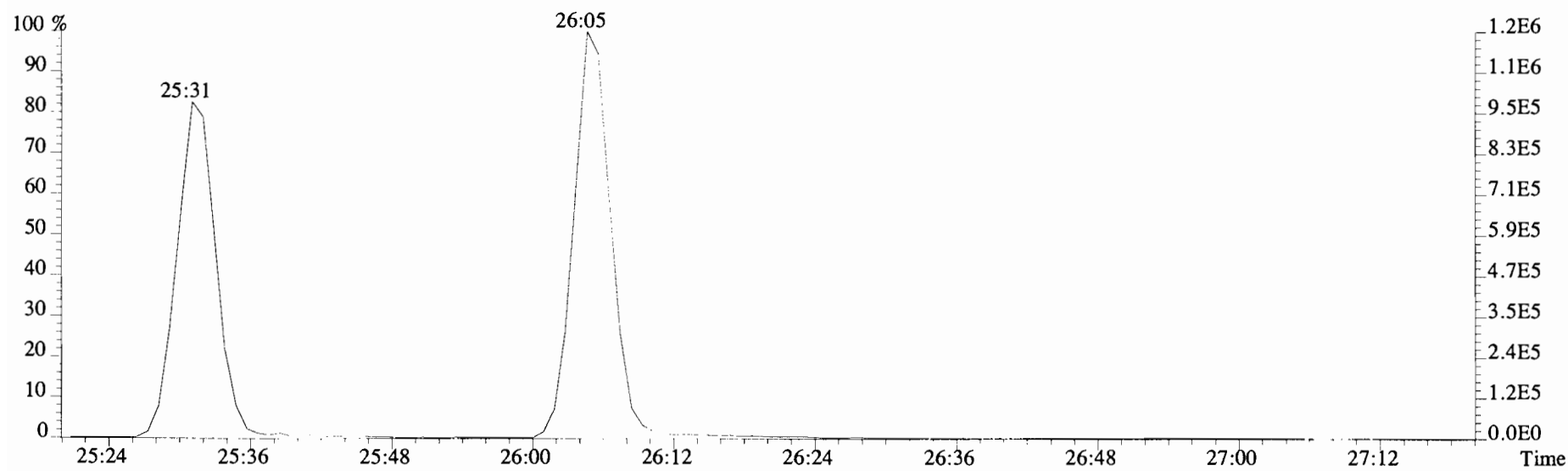
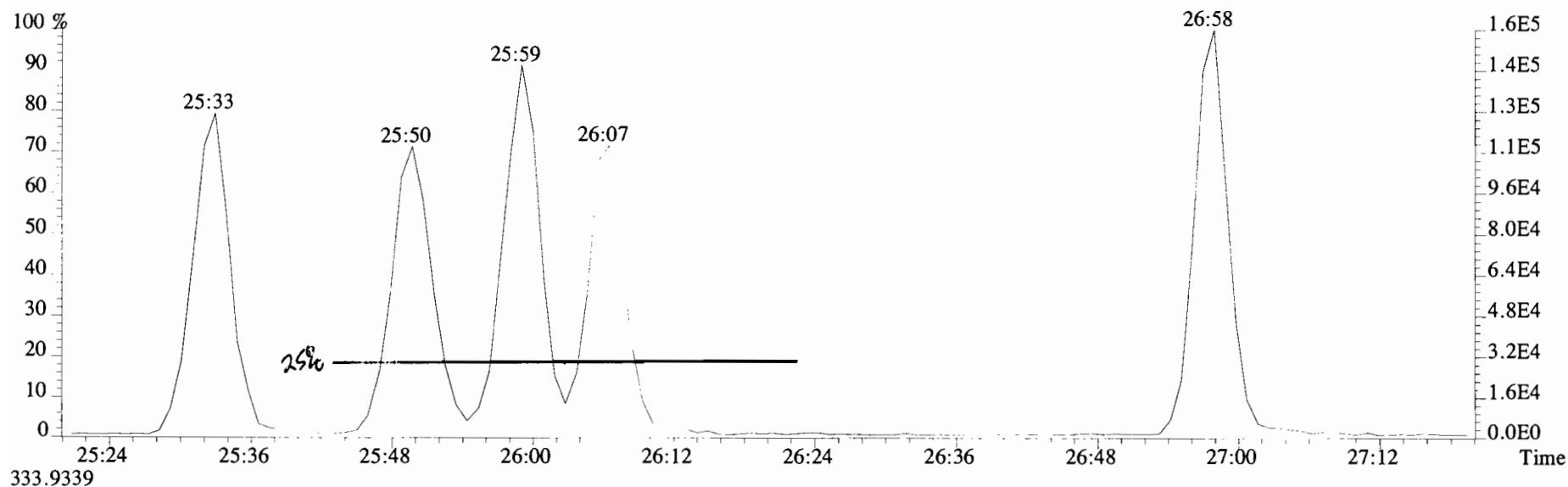
Peak Locate Examination: 4-DEC-2019:17:45 File:191204D1

Experiment:OCDD_DB5 Function:4 Reference:PFK

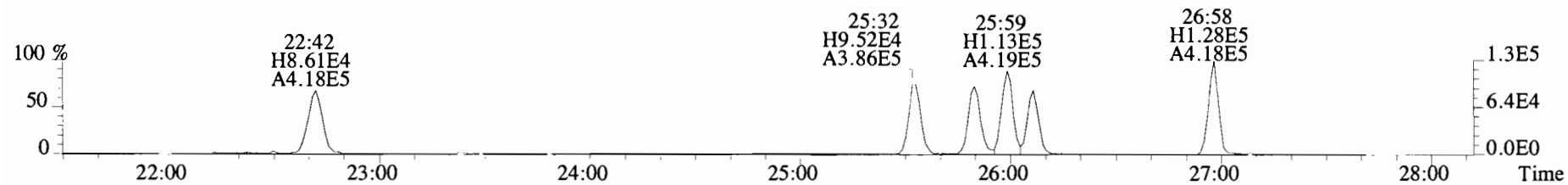




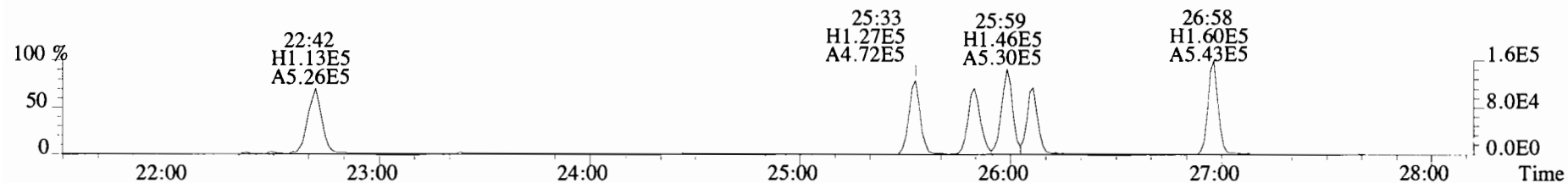
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Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
321.8936



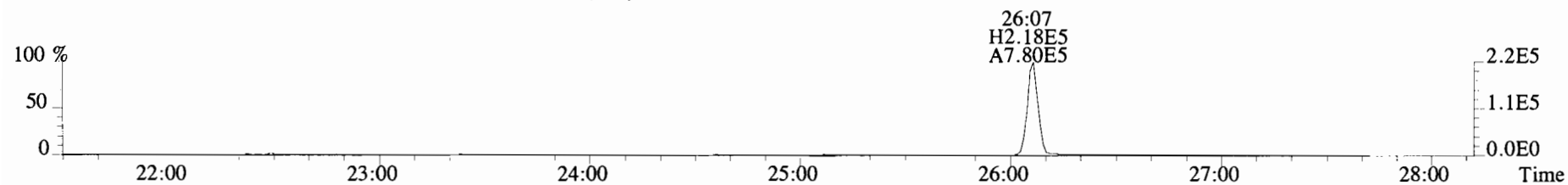
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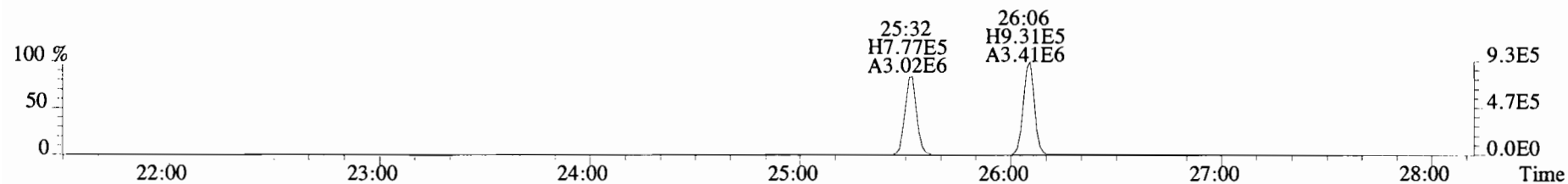
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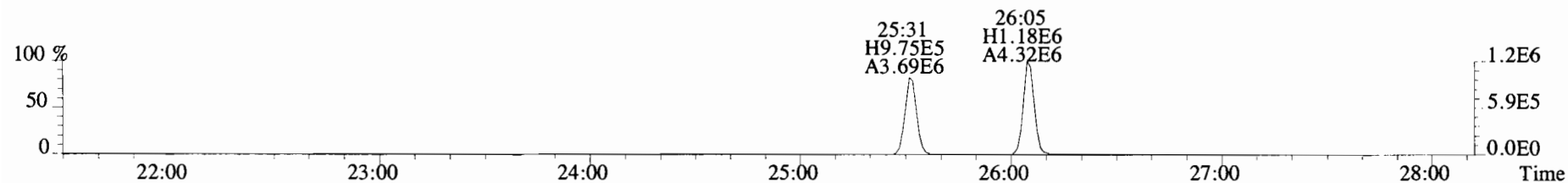
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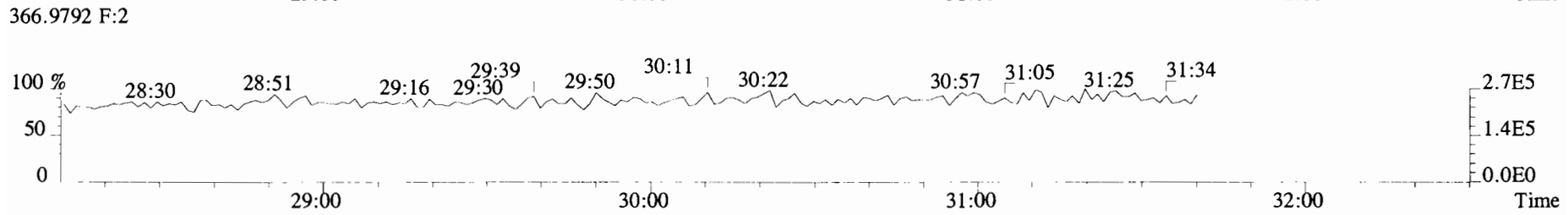
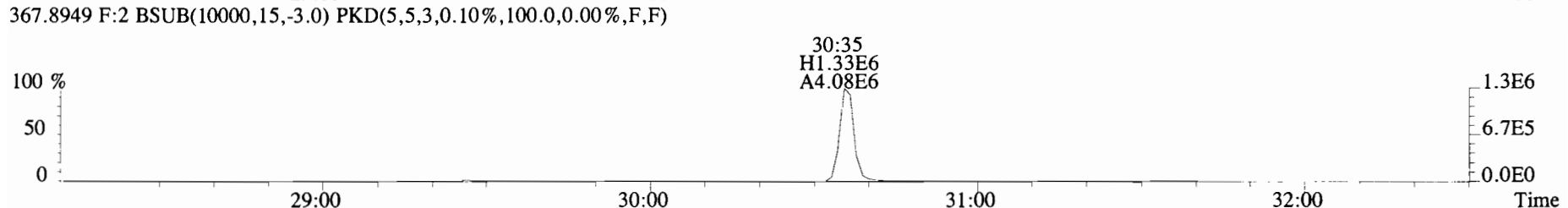
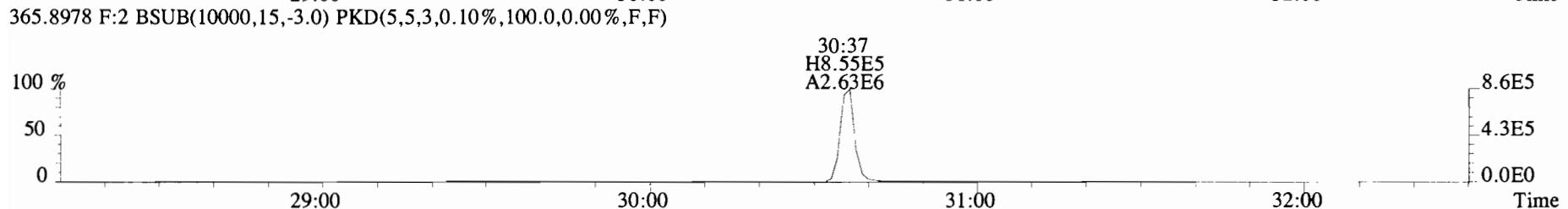
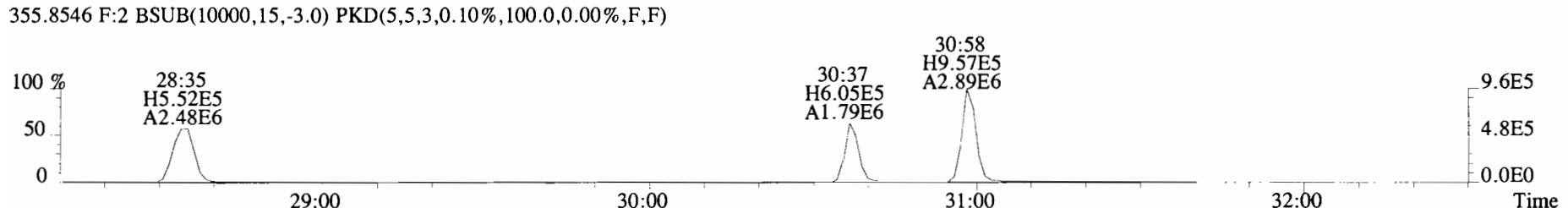
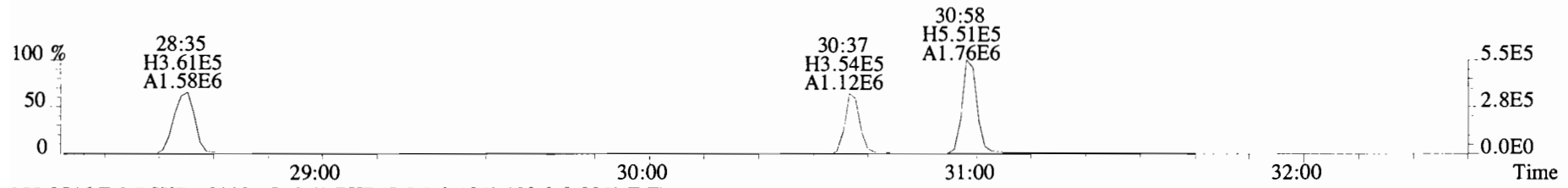
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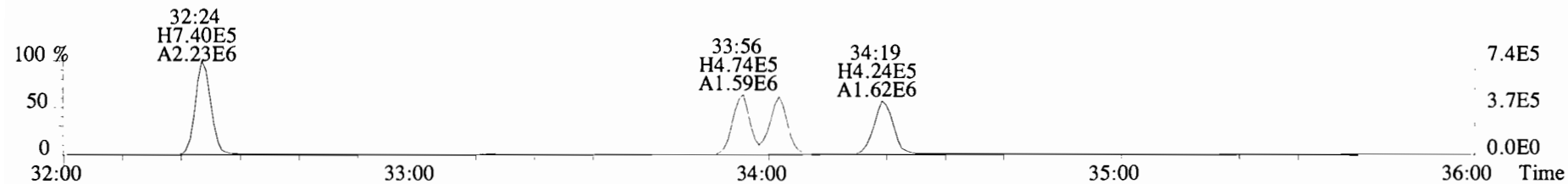
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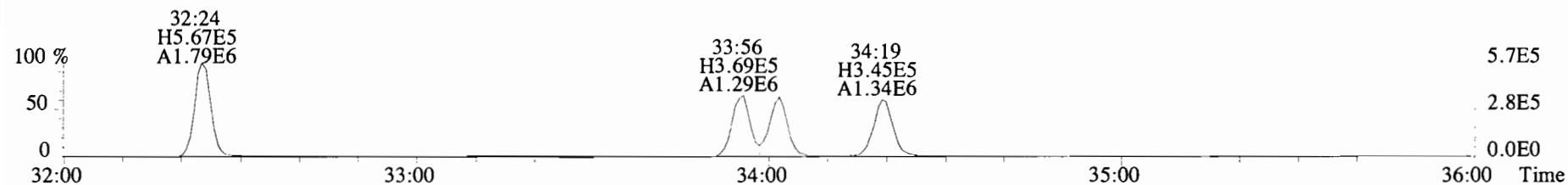
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 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
 353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



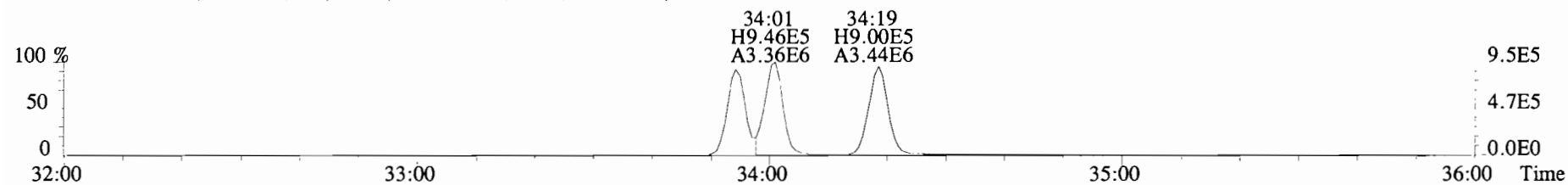
File:191204D1 #1-385 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



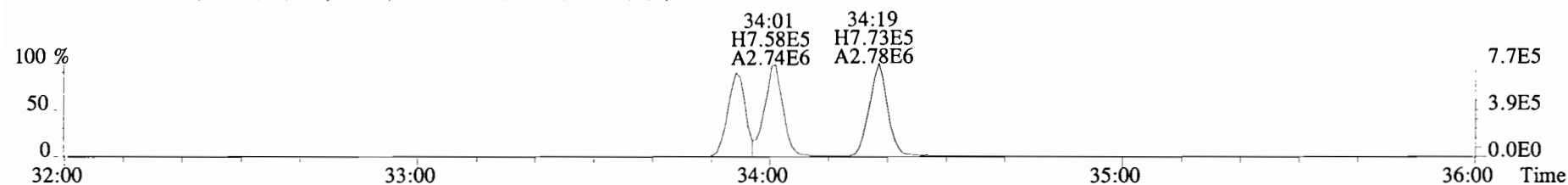
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



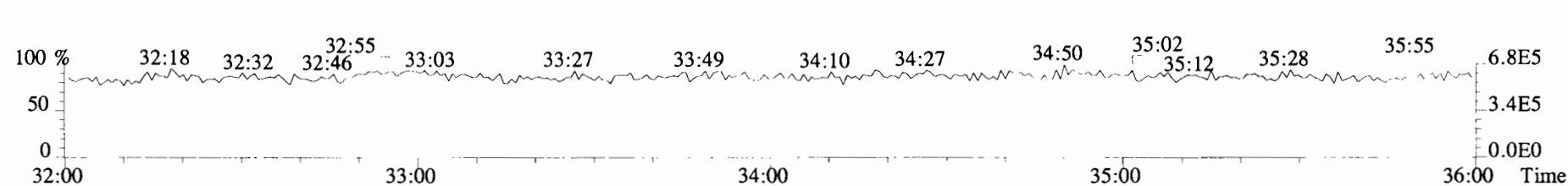
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



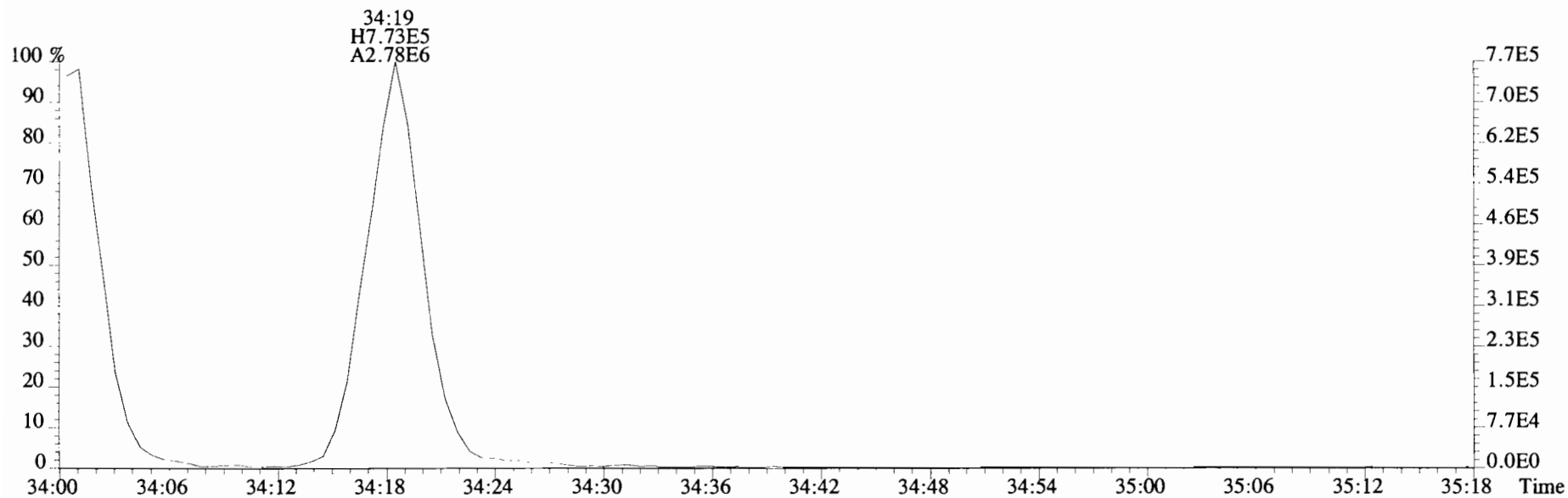
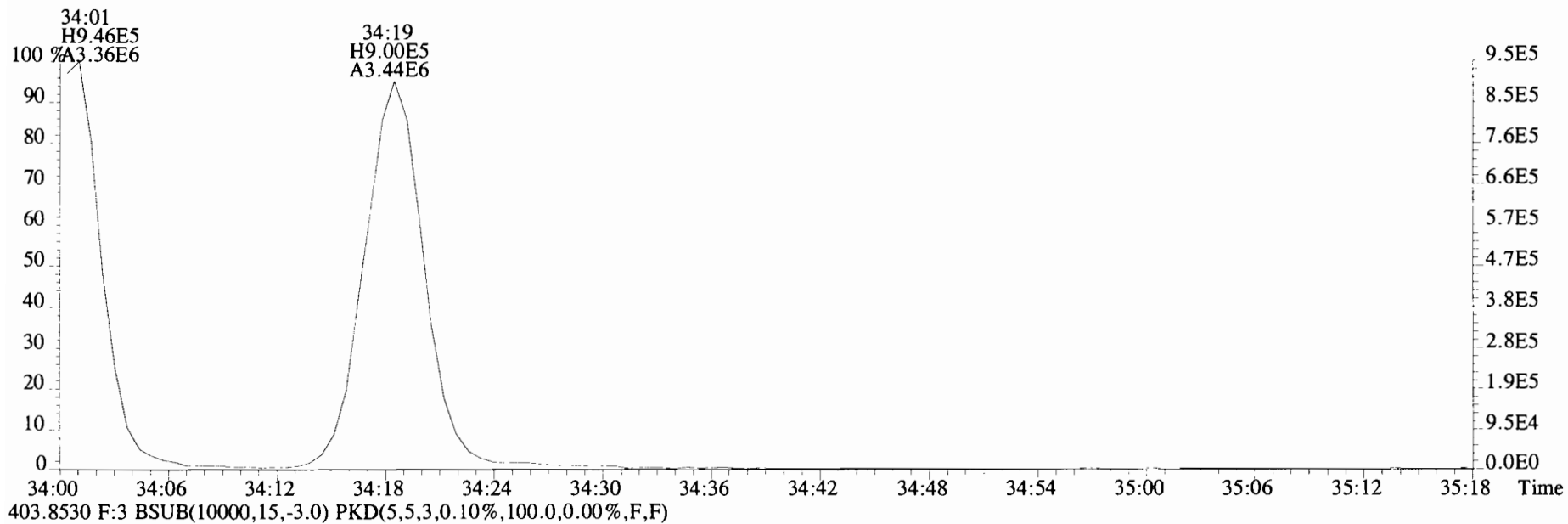
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



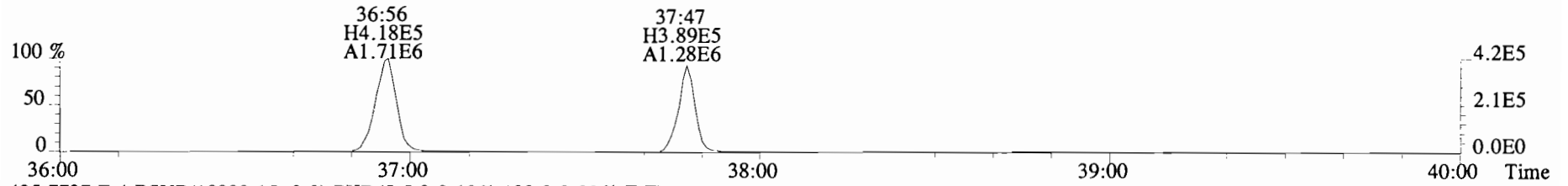
392.9760 F:3



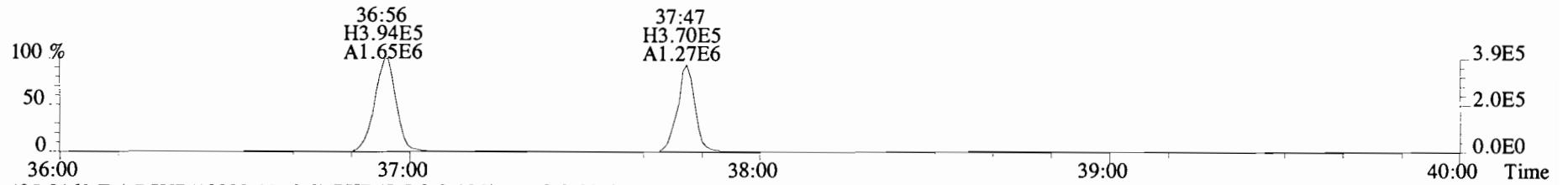
File:191204D1 #1-385 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



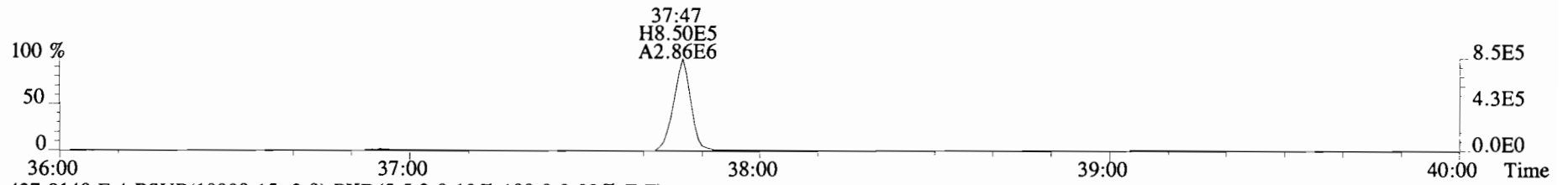
File:191204D1 #1-356 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



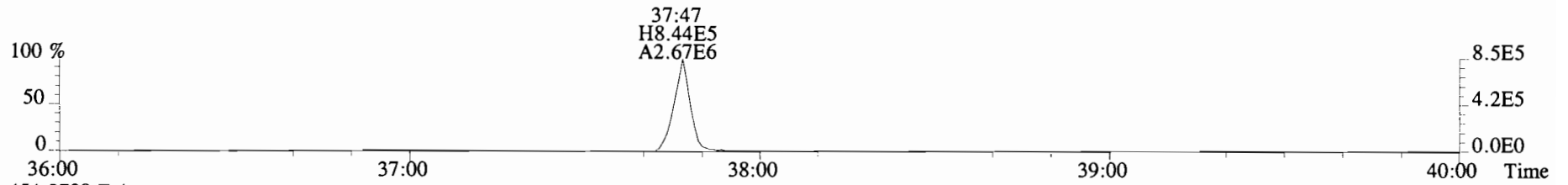
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



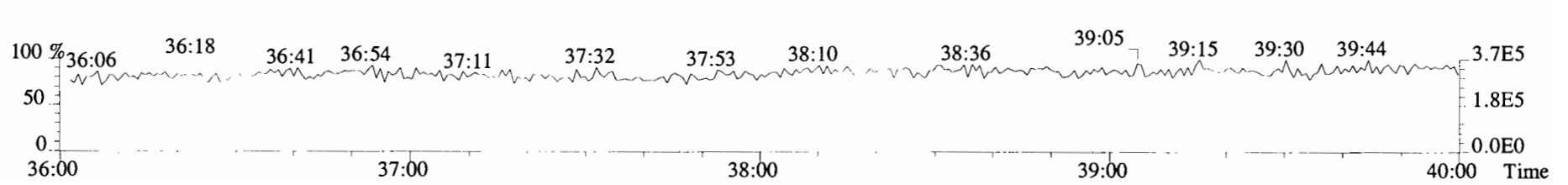
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



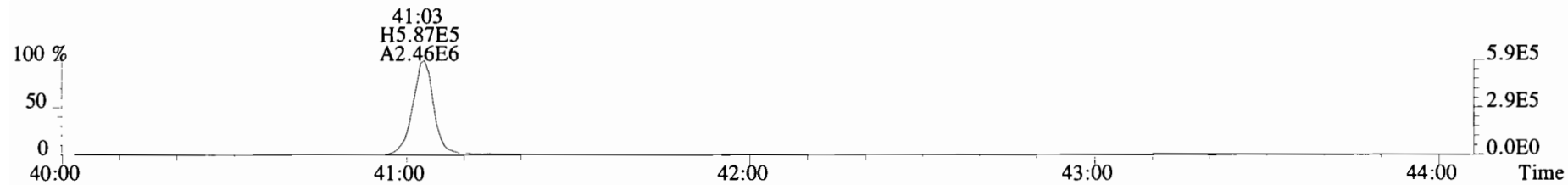
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



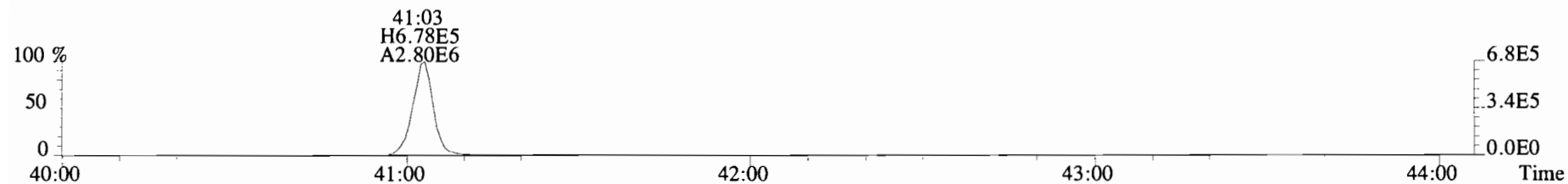
454.9728 F:4



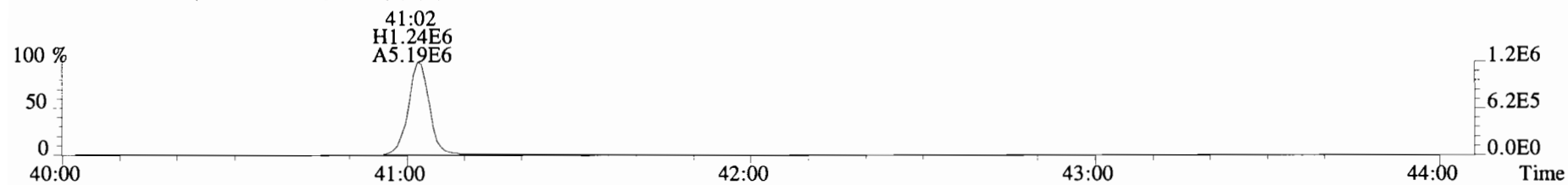
File:191204D1 #1-431 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



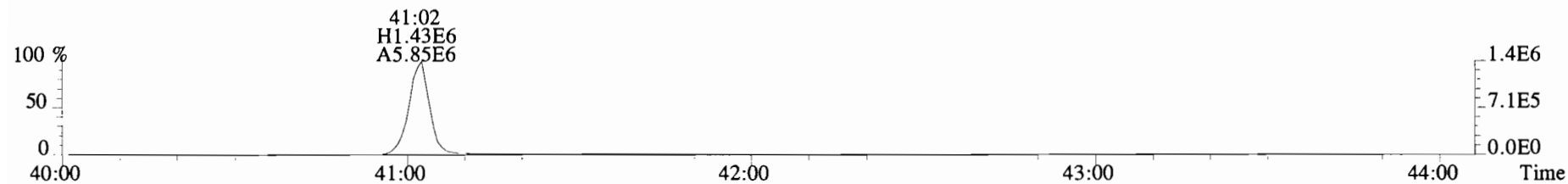
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



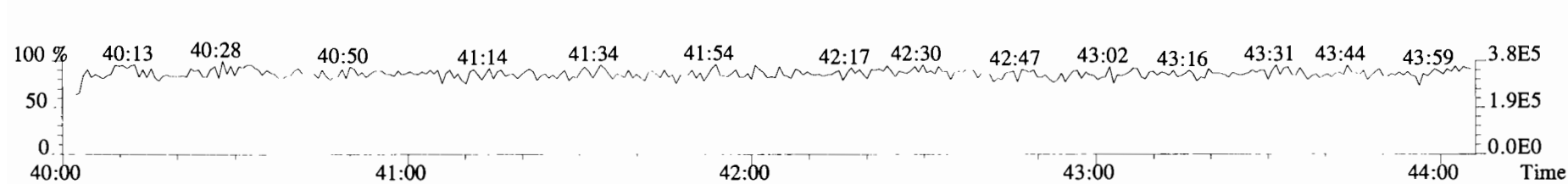
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



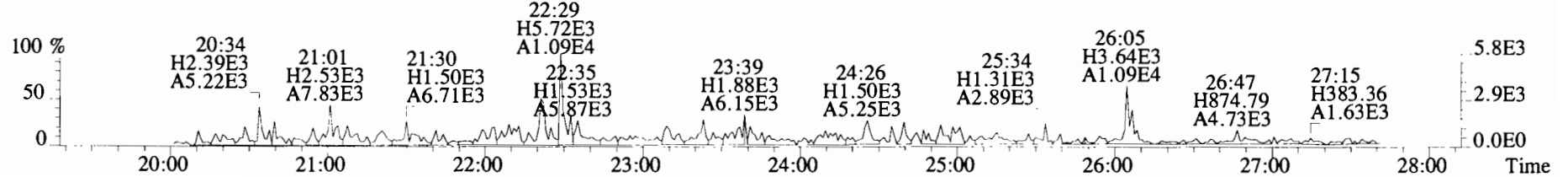
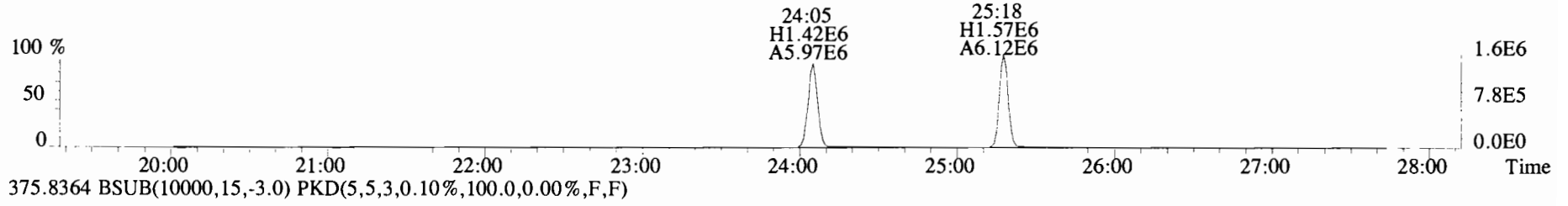
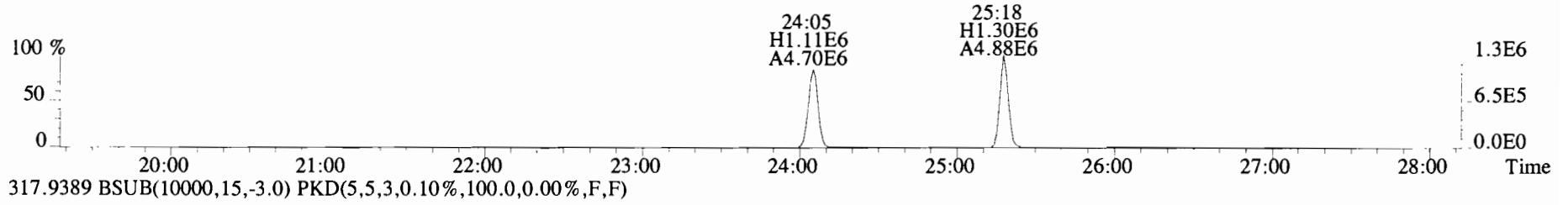
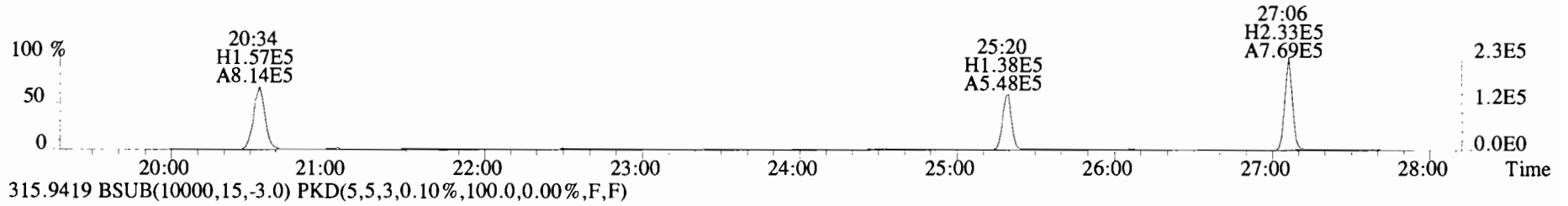
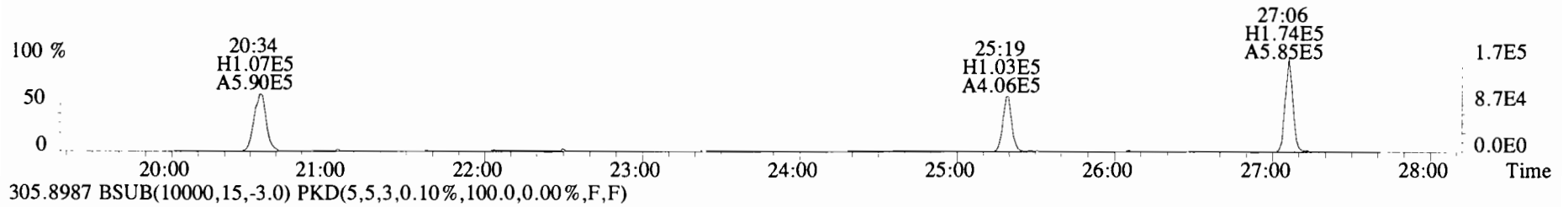
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



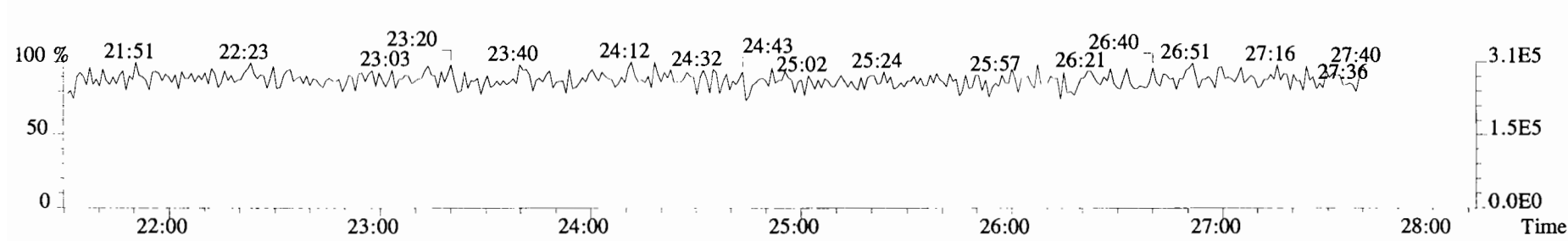
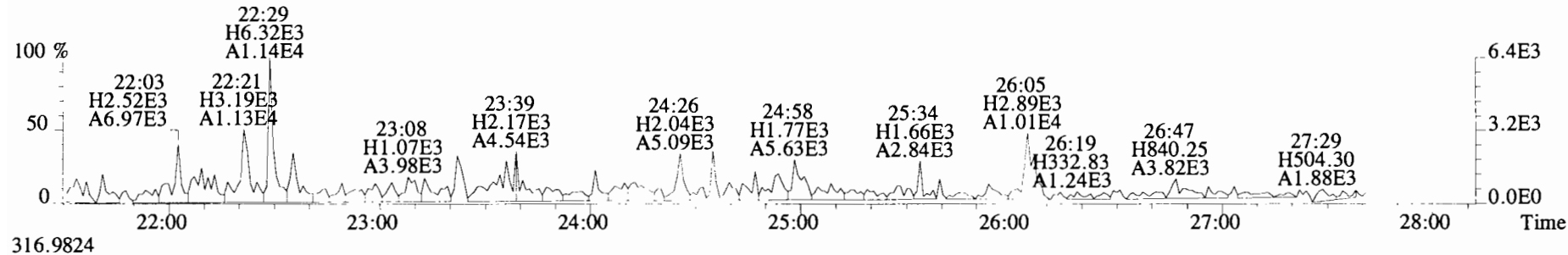
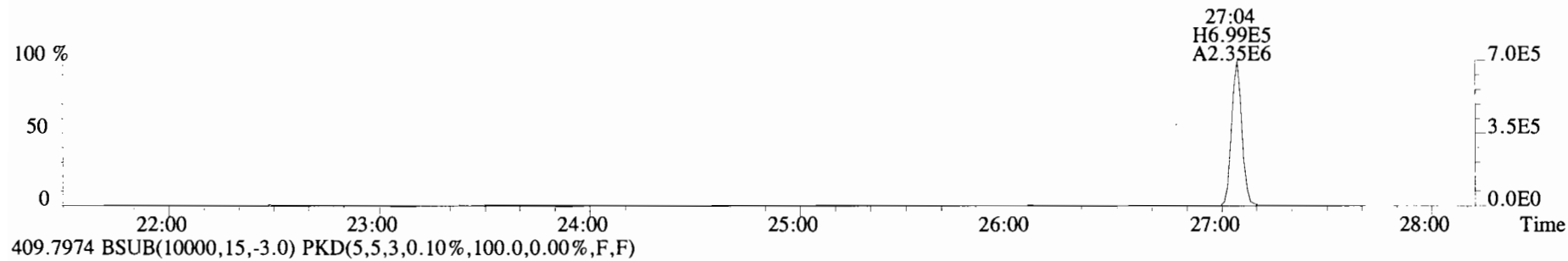
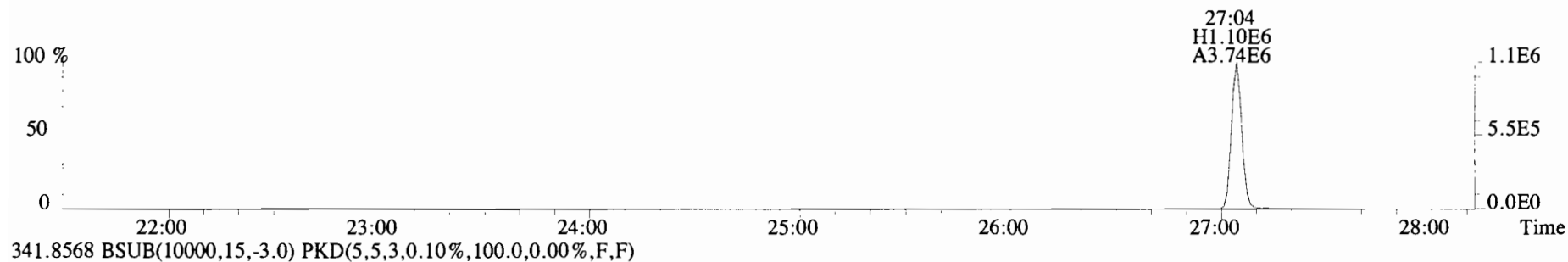
454.9728 F:5



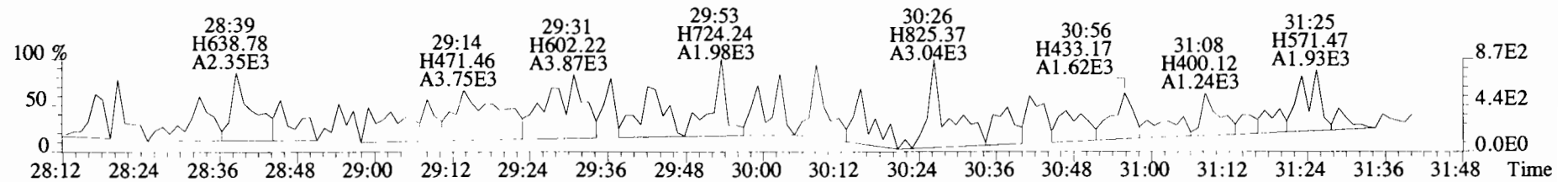
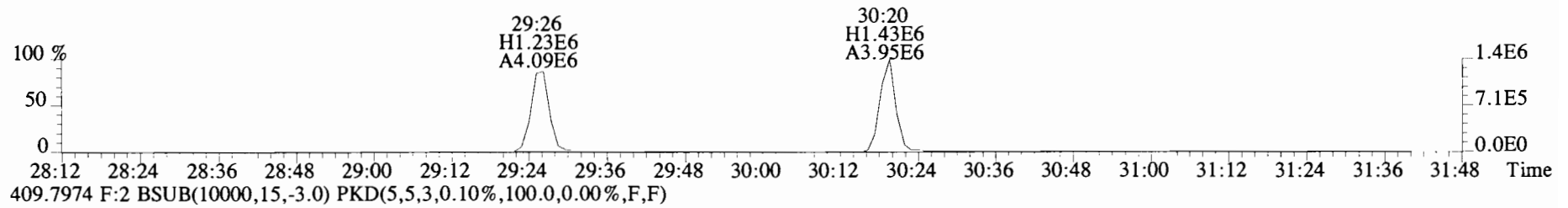
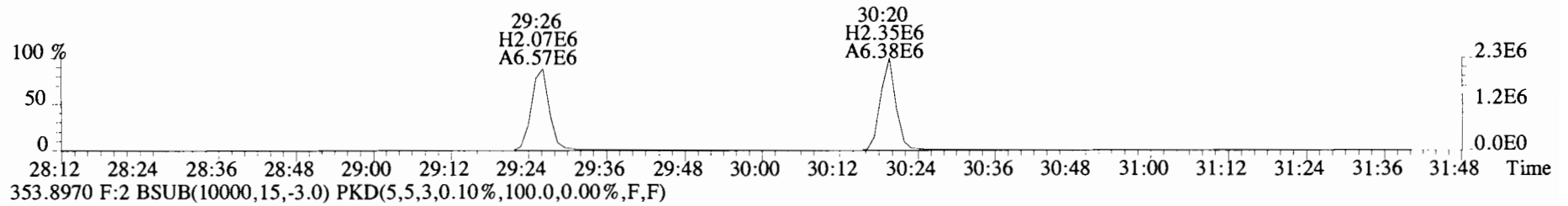
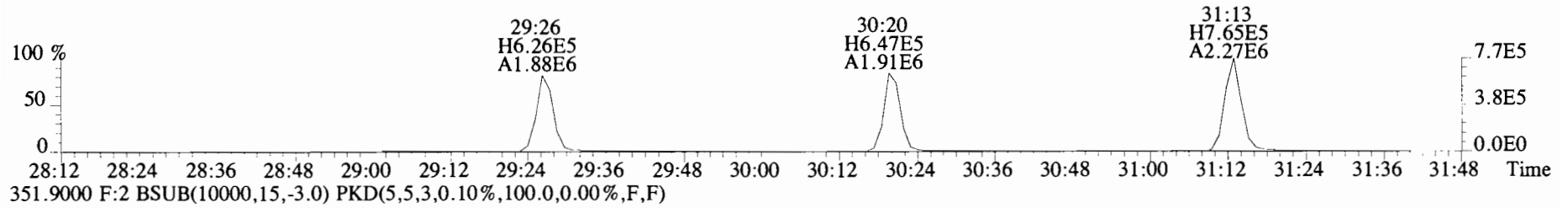
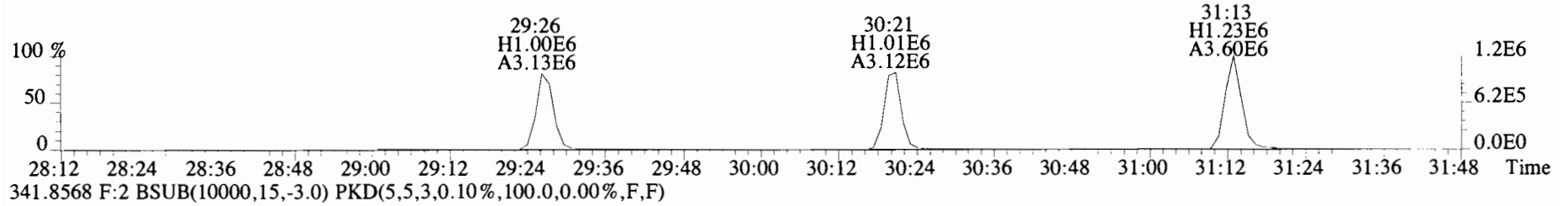
File:191204D1 #1-493 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



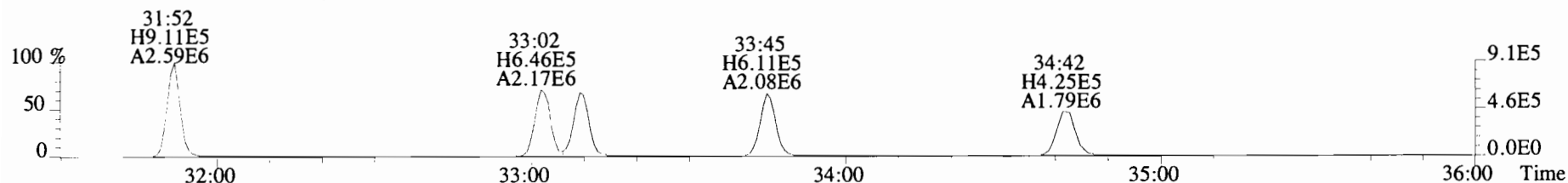
File:191204D1 #1-493 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



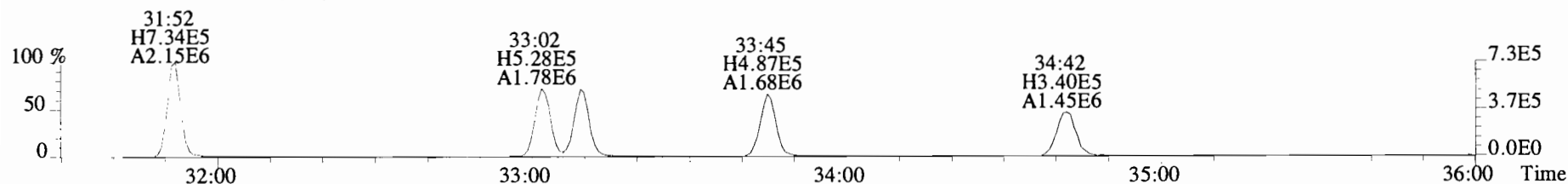
File:191204D1 #1-210 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
 339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



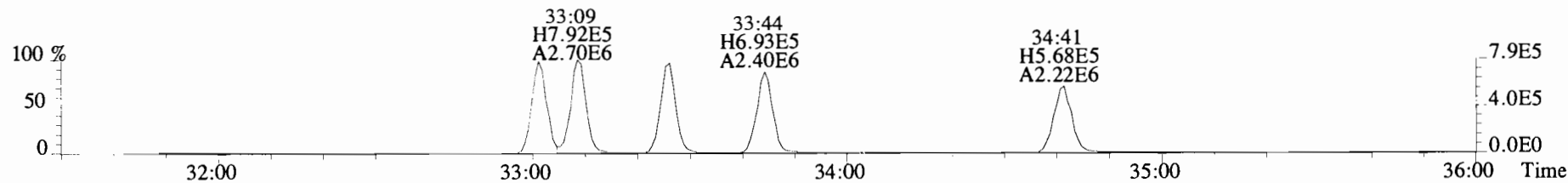
File:191204D1 #1-385 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



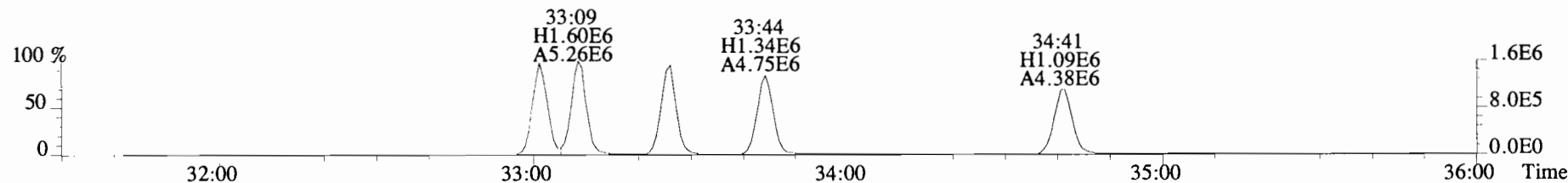
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



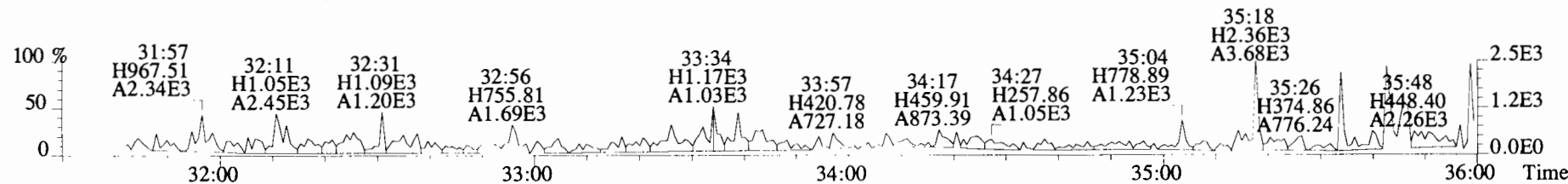
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



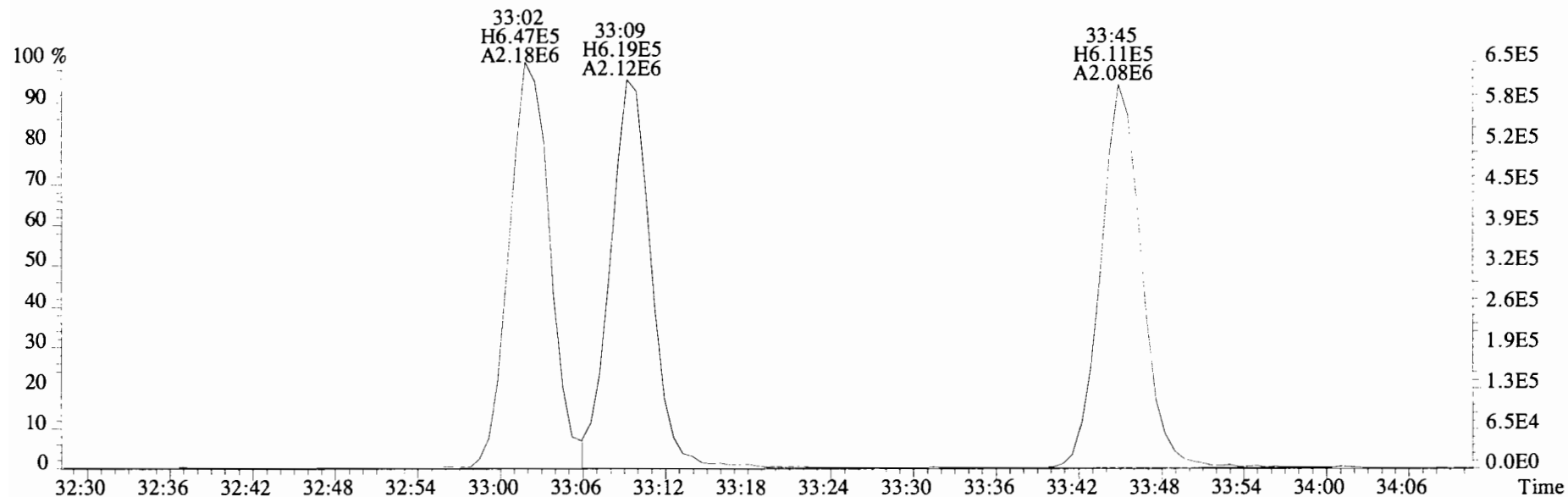
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



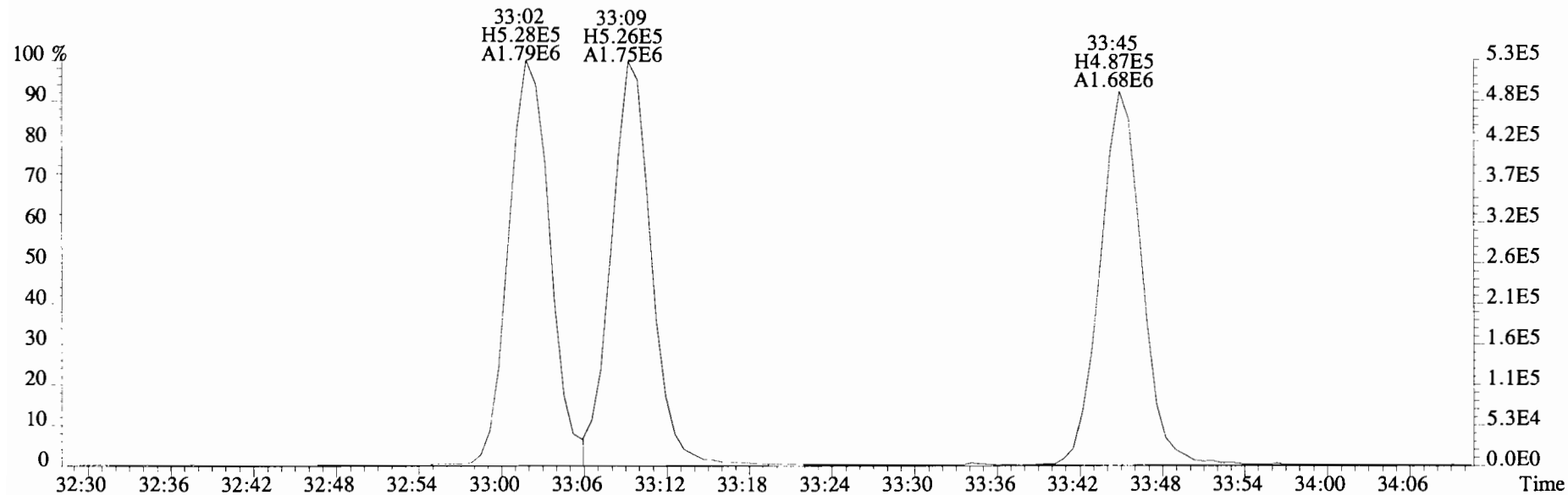
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



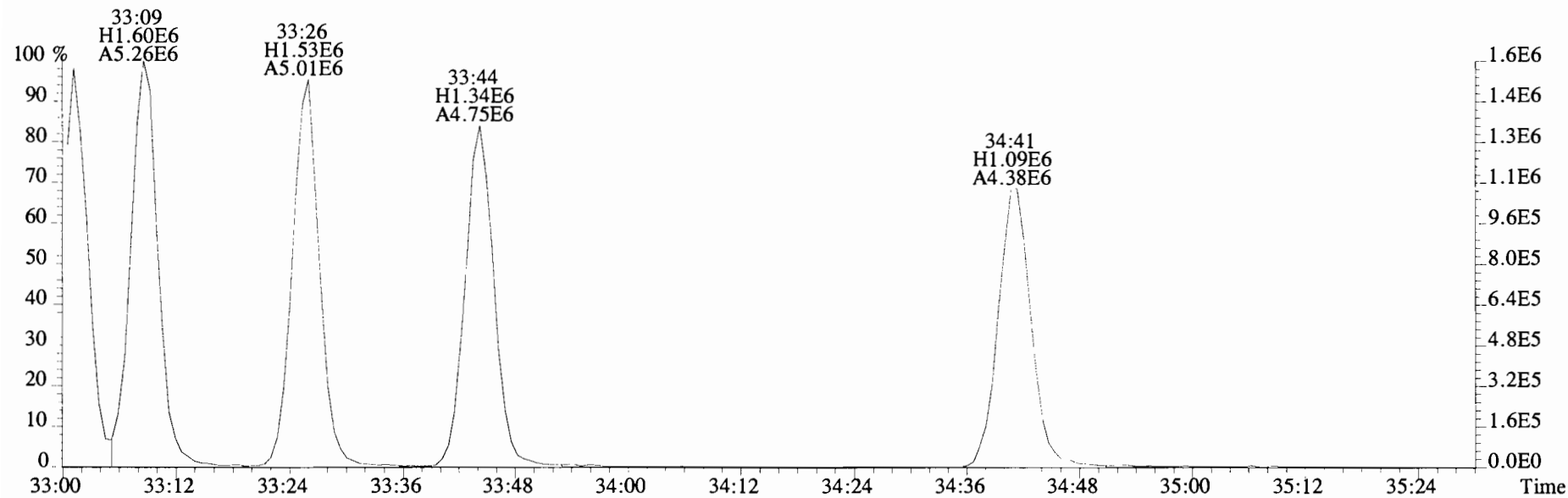
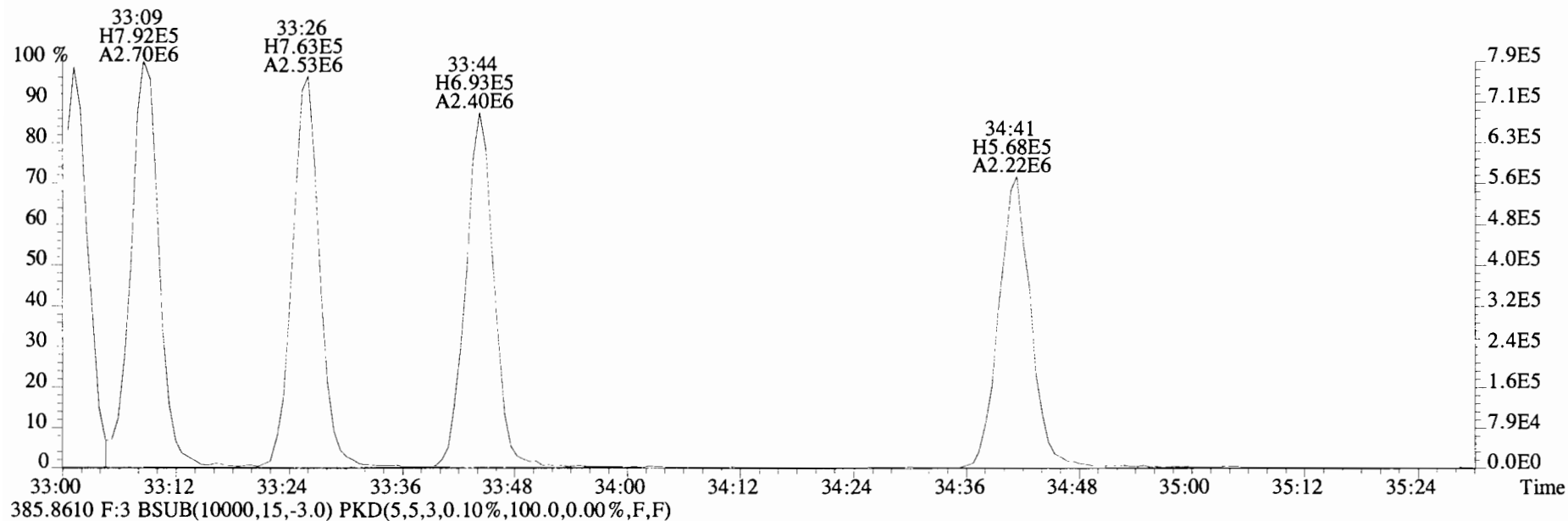
File:191204D1 #1-385 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



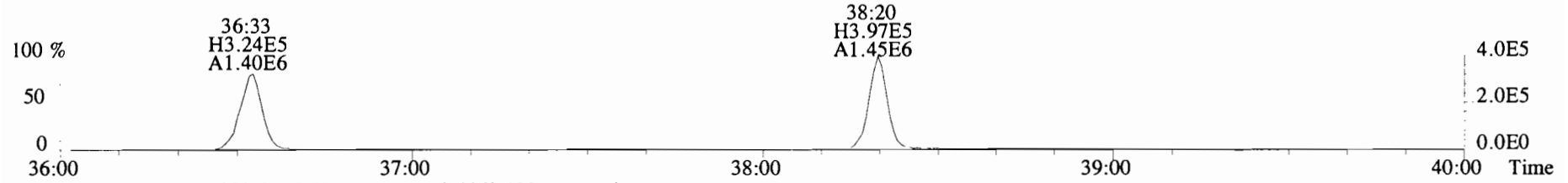
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



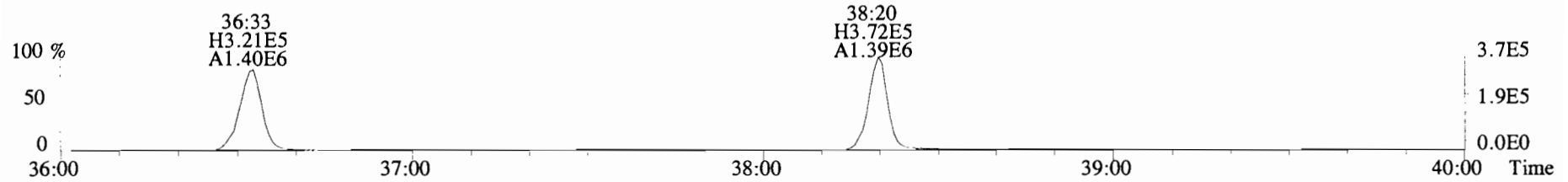
File:191204D1 #1-385 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



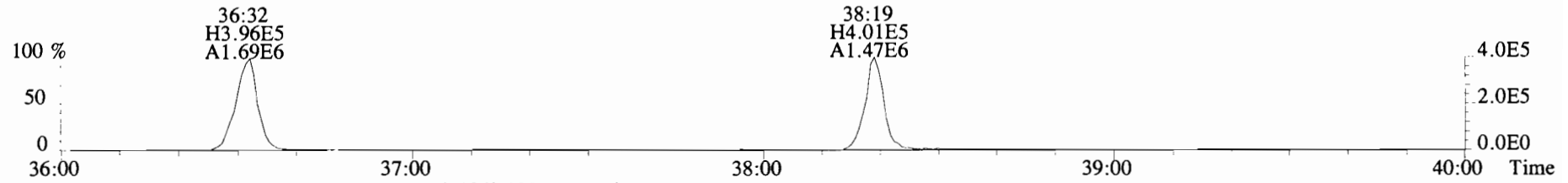
File:191204D1 #1-356 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
 407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



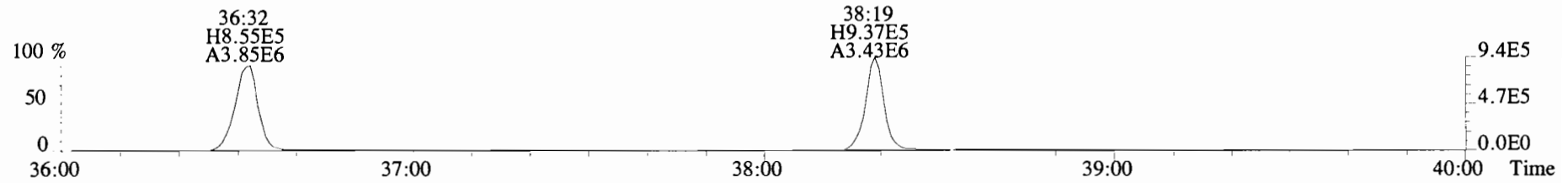
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



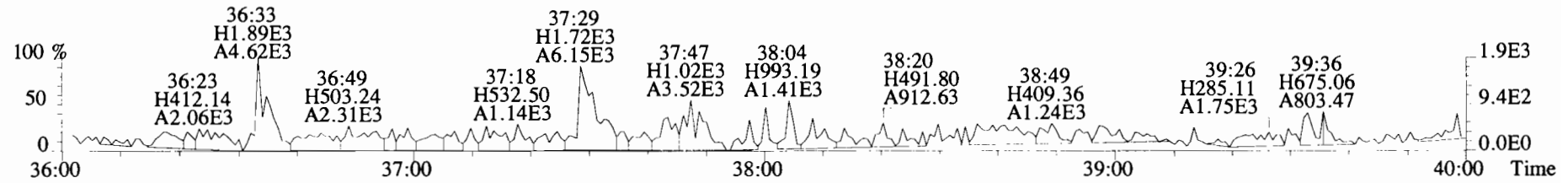
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



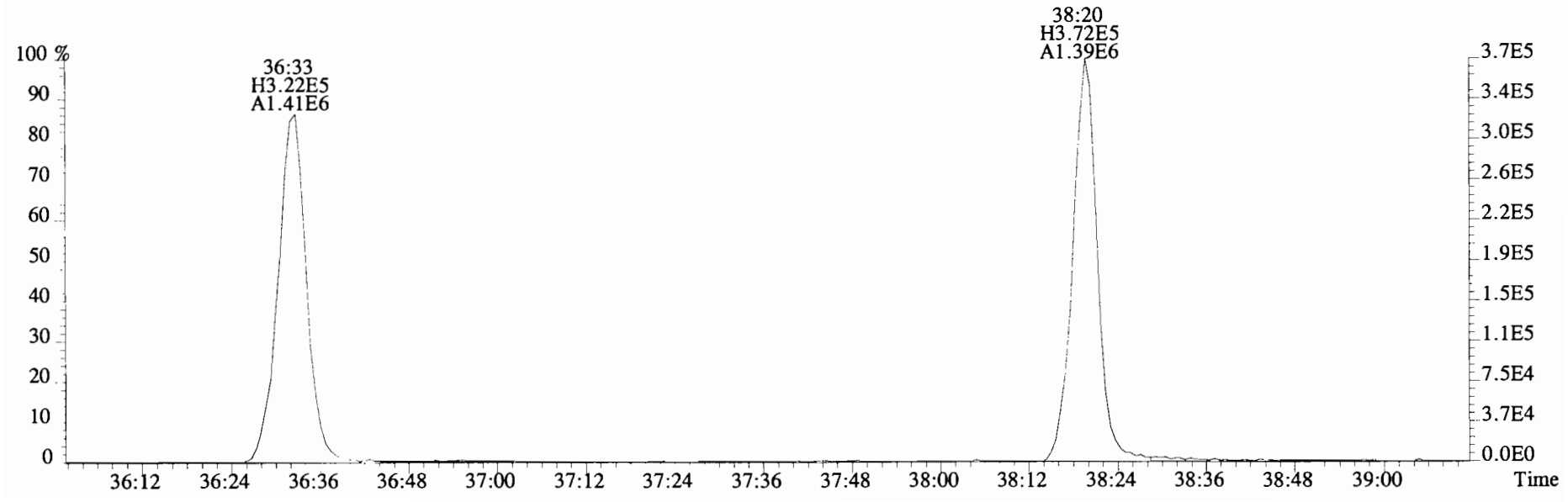
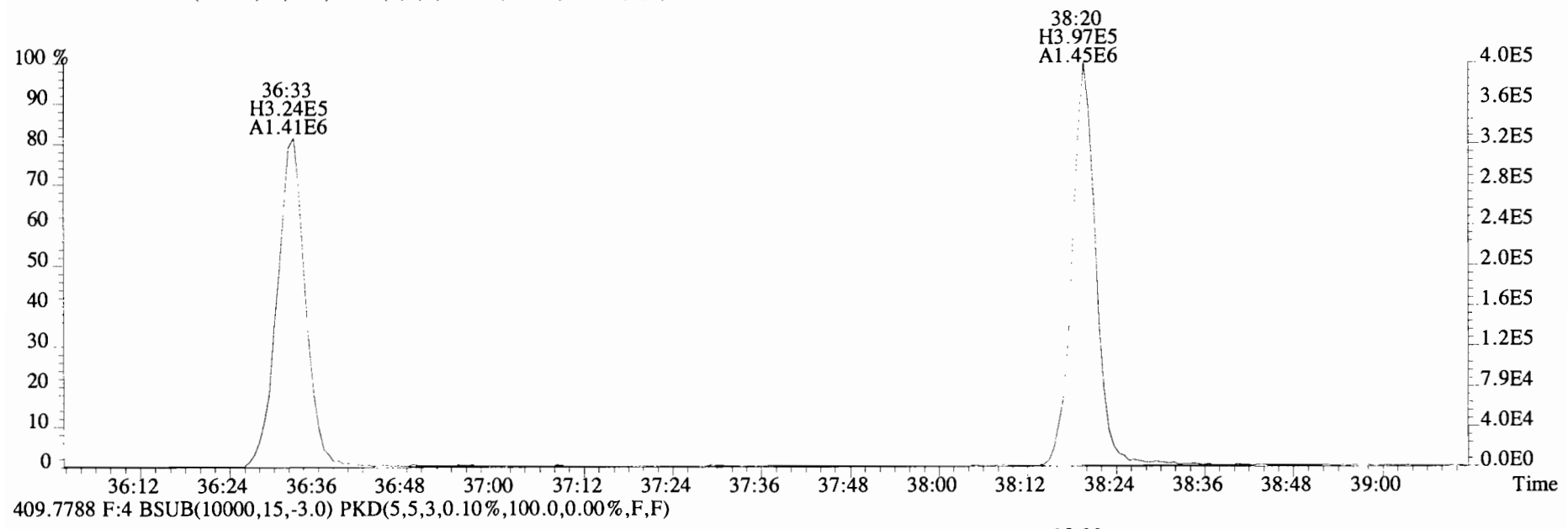
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



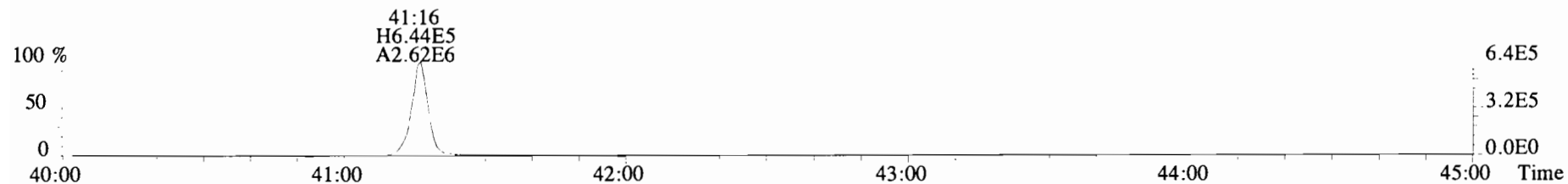
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



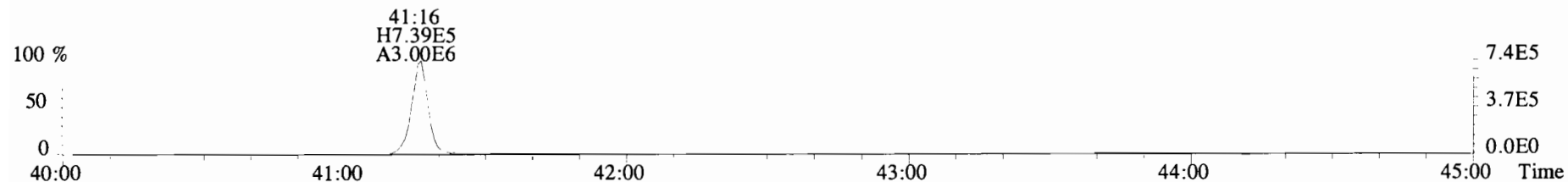
File:191204D1 #1-356 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



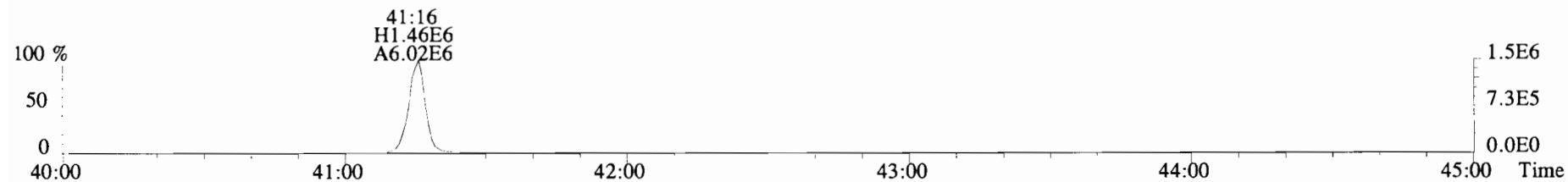
File:191204D1 #1-431 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



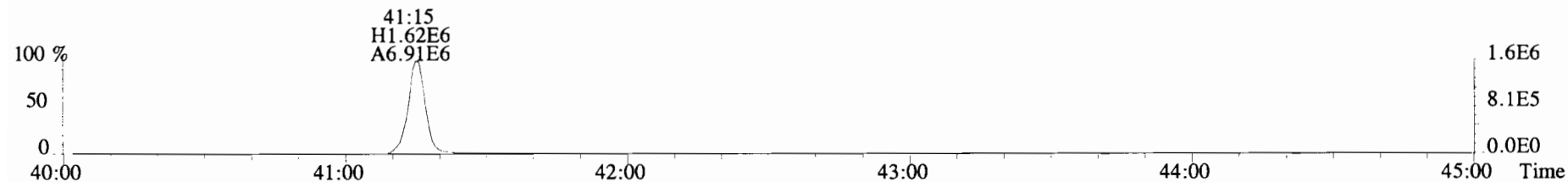
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



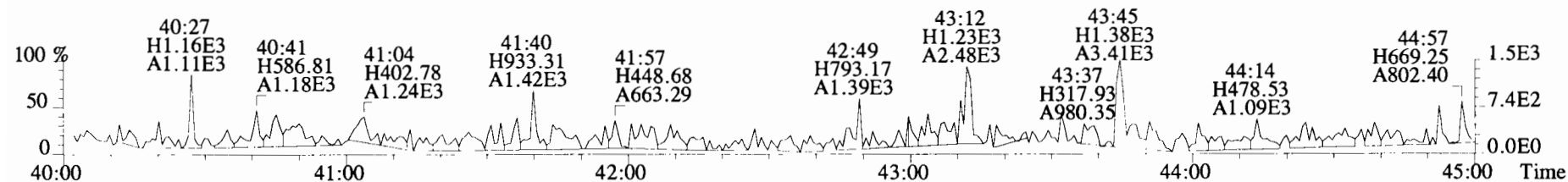
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

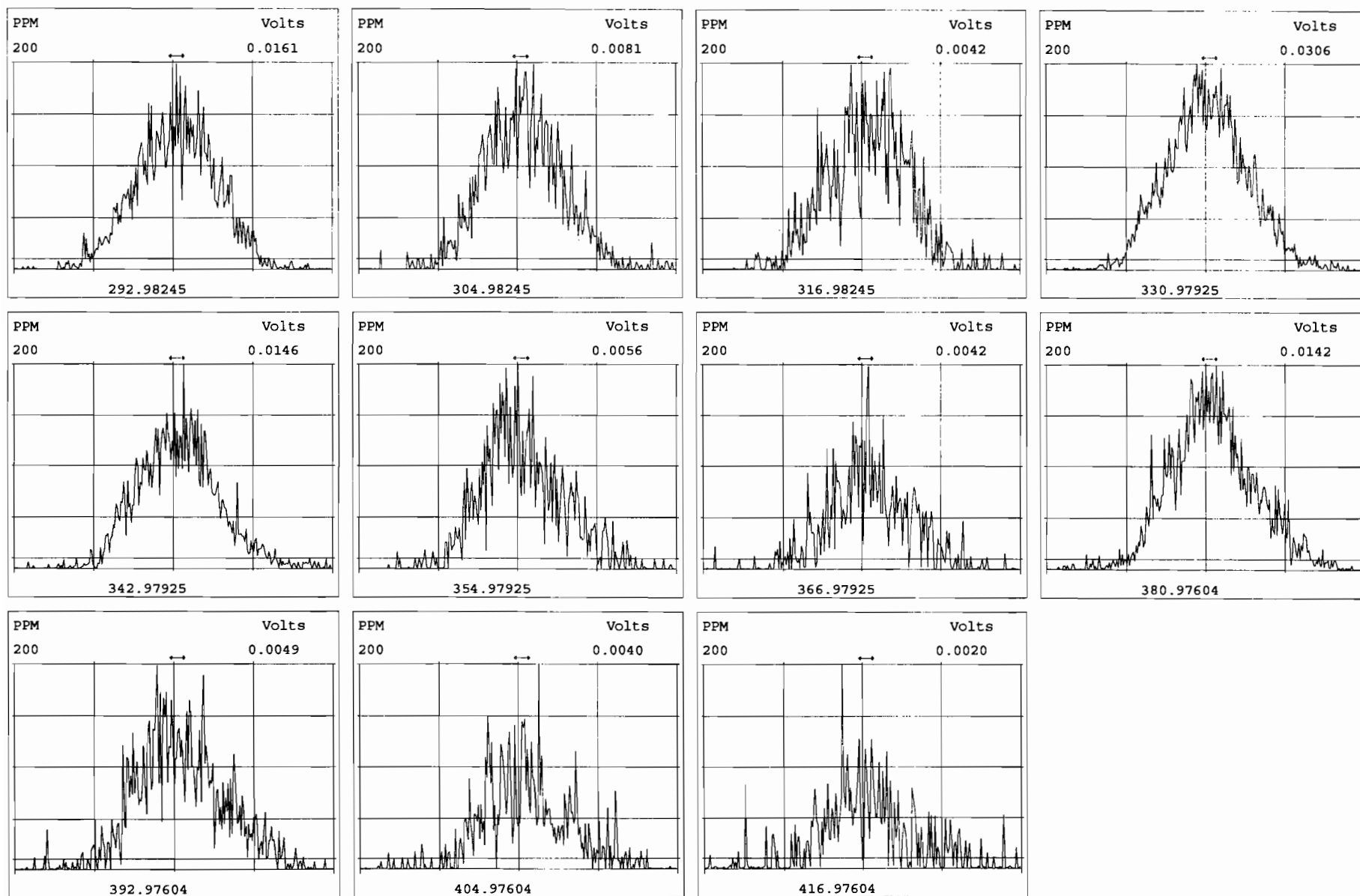


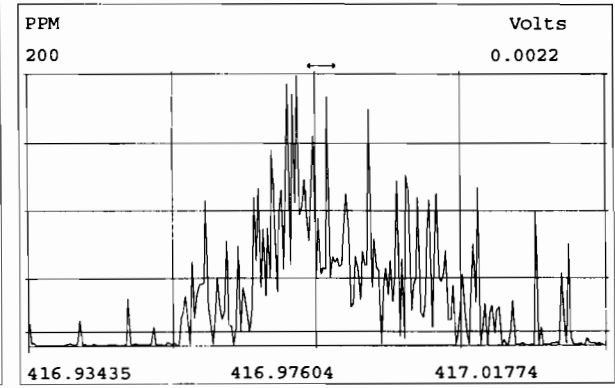
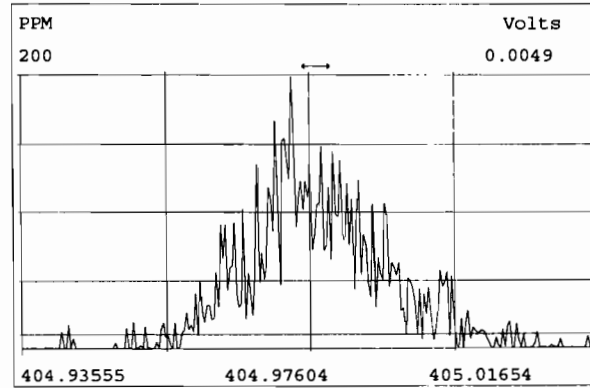
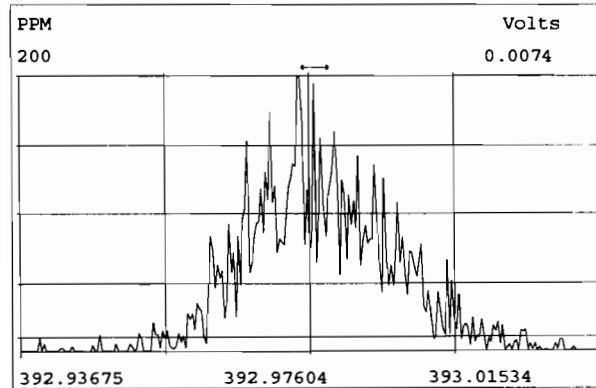
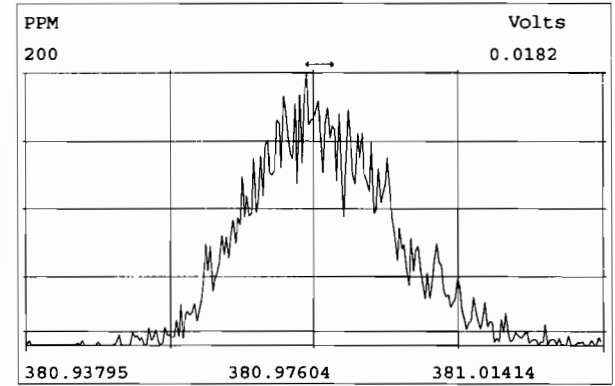
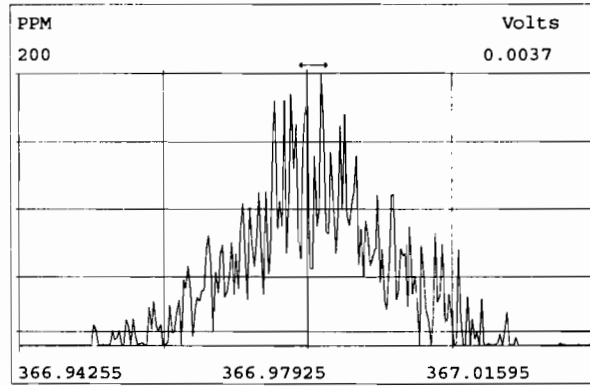
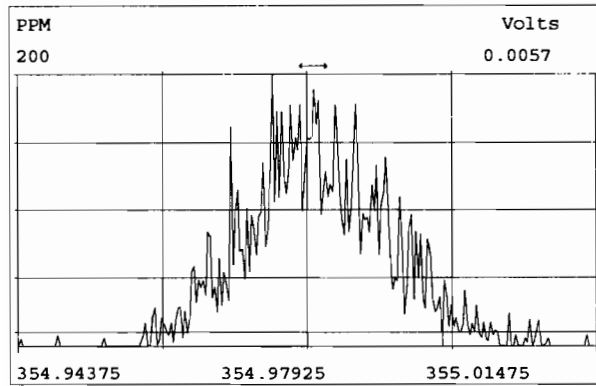
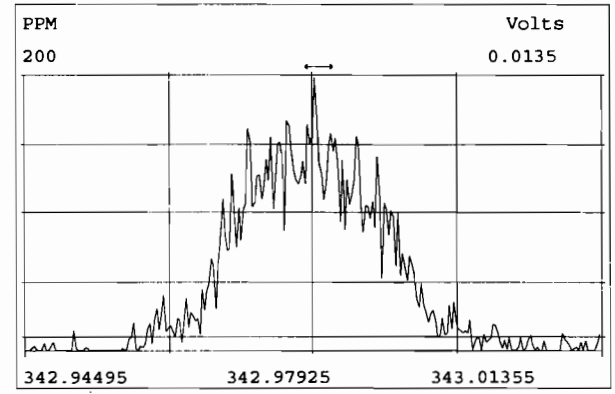
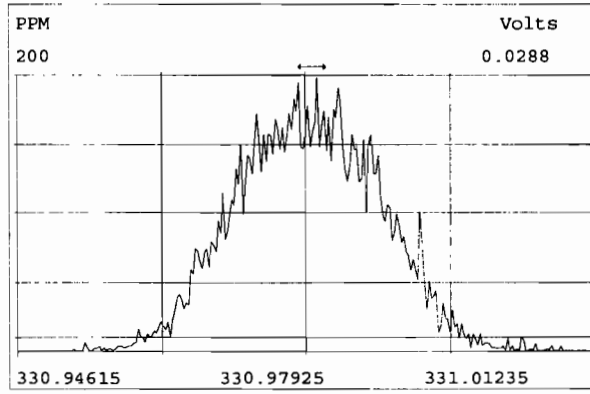
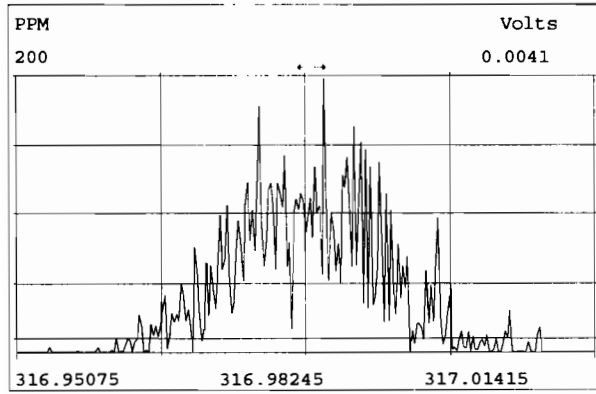
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

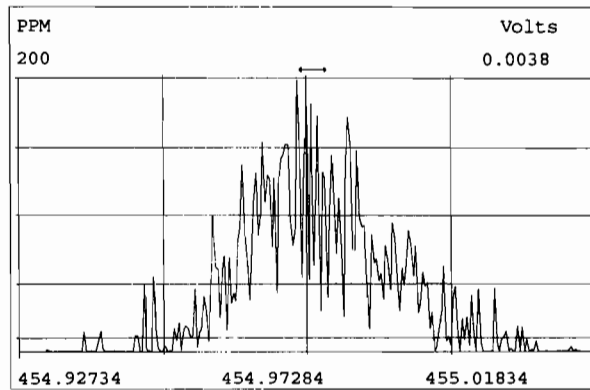
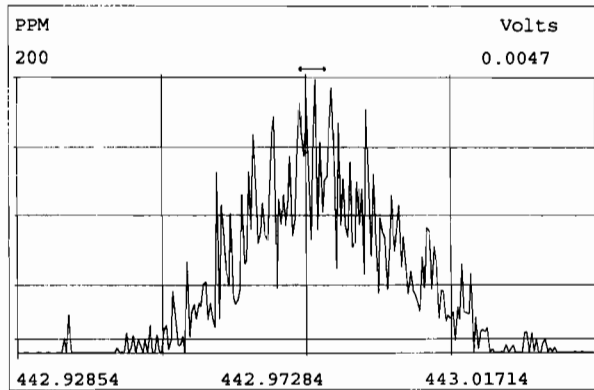
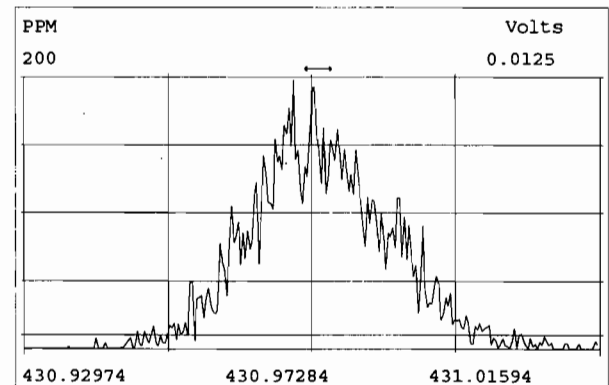
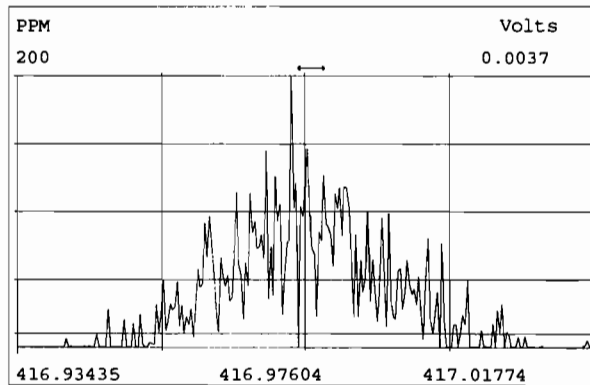
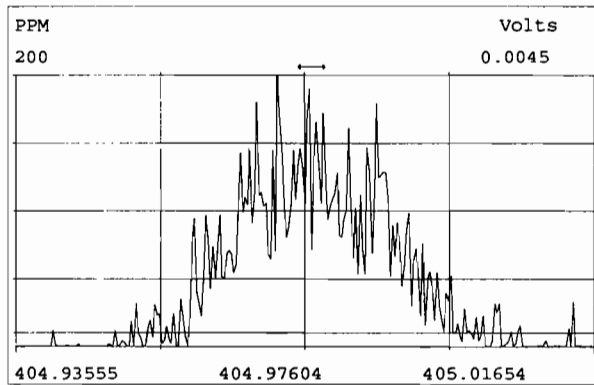
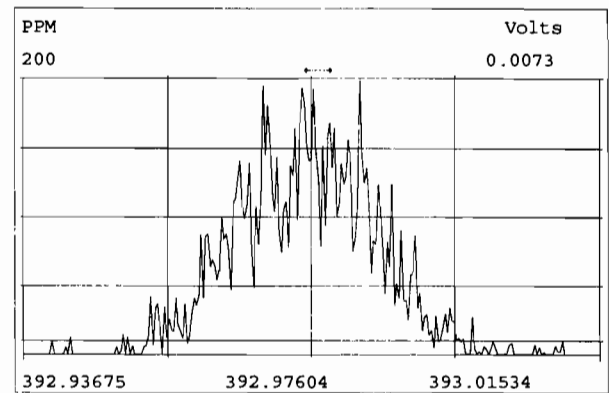
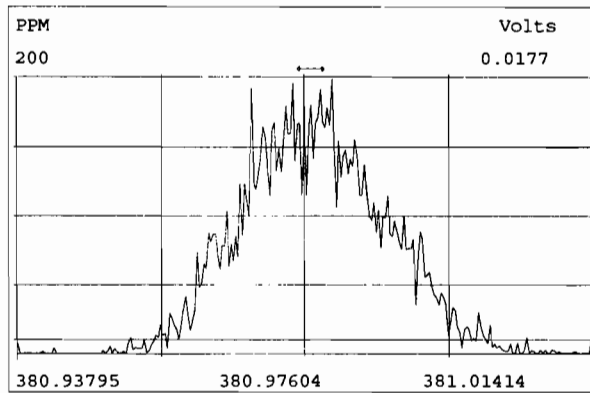
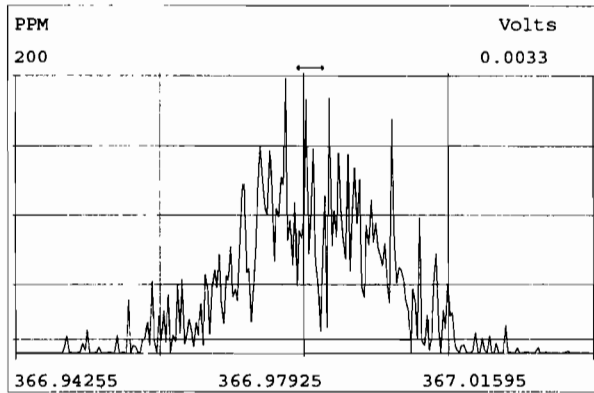


Peak Locate Examination: 5-DEC-2019:07:29 File:RES_CHECK

Experiment:OCDD_DB5 Function:1 Reference:PFK

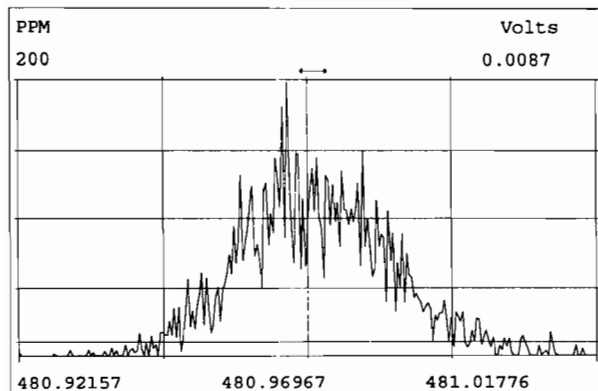
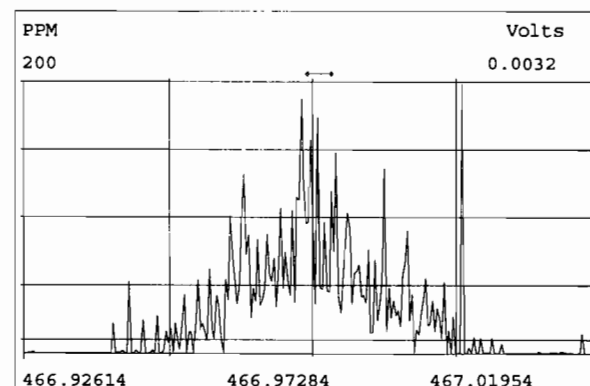
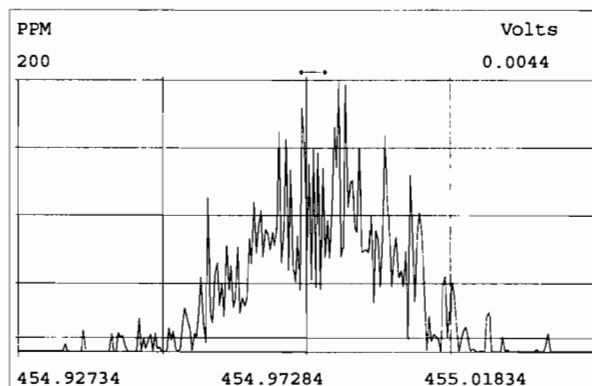
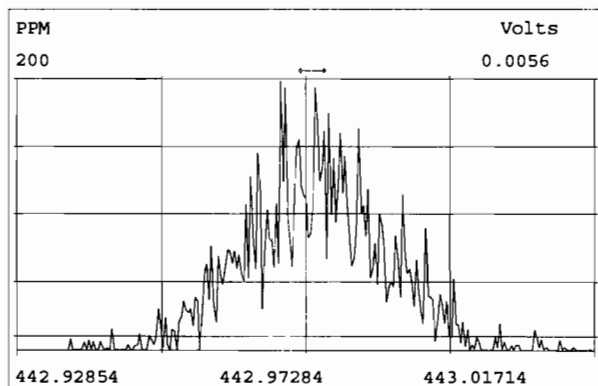
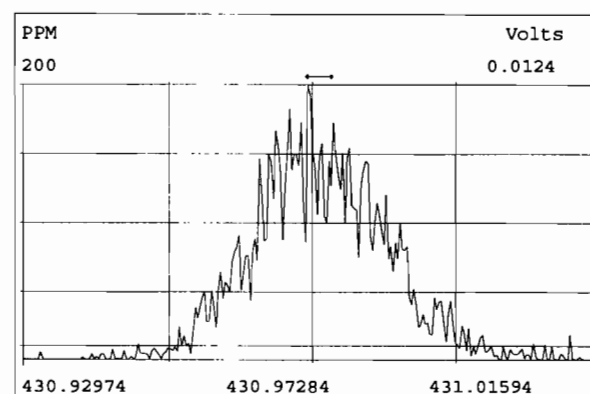
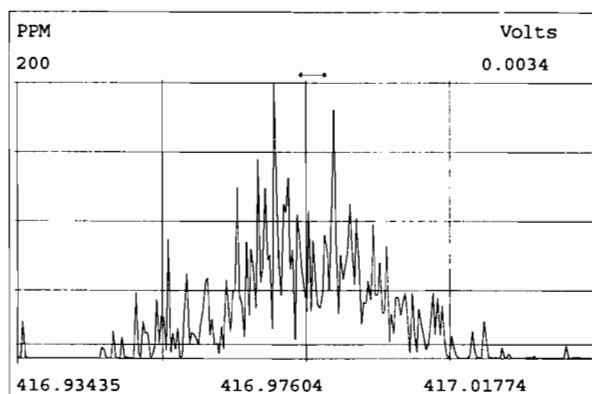
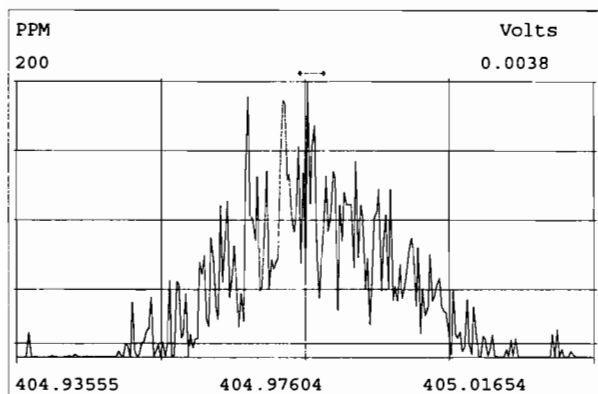


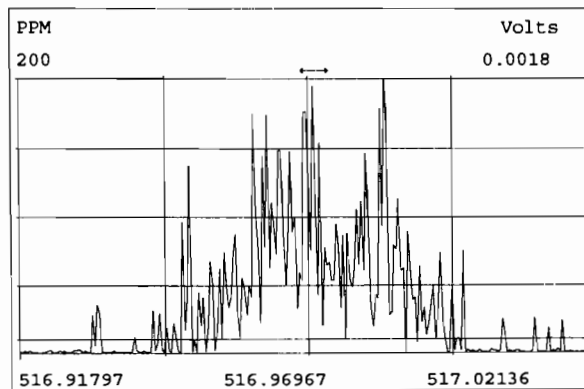
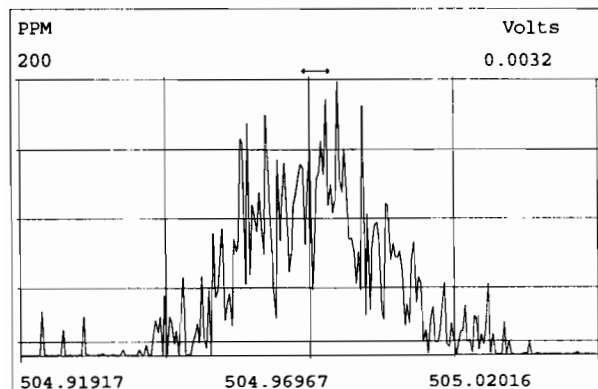
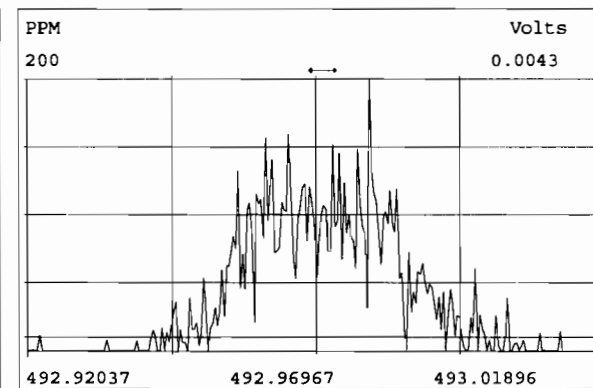
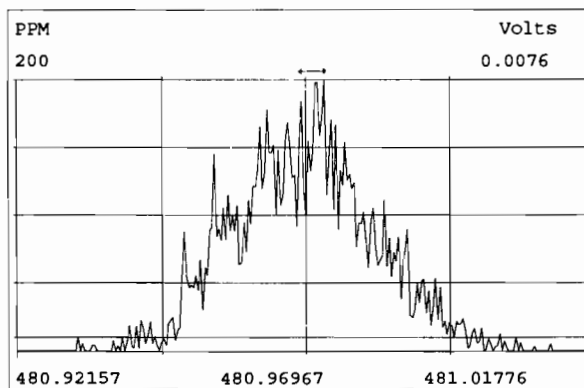
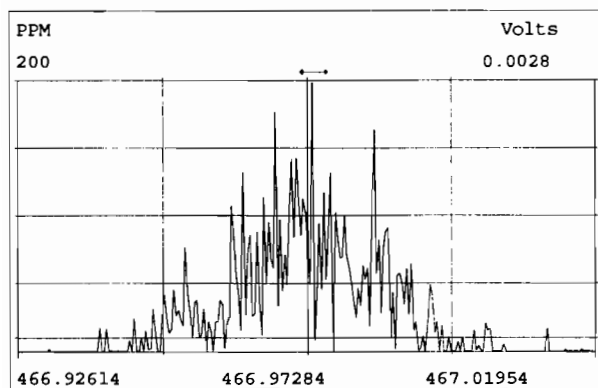
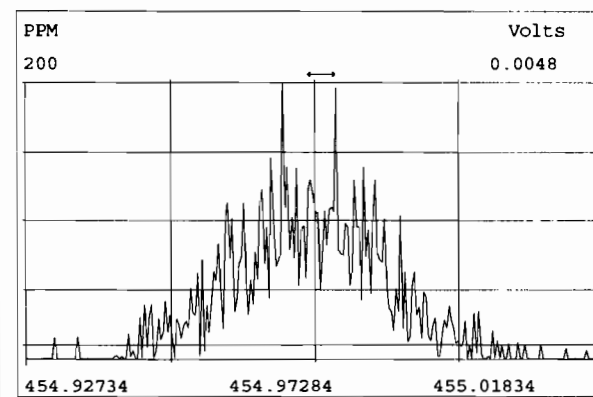
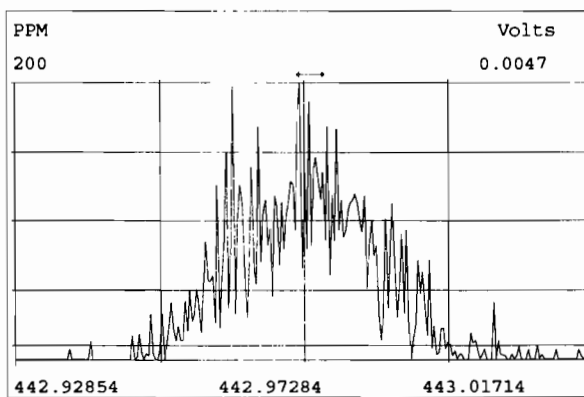
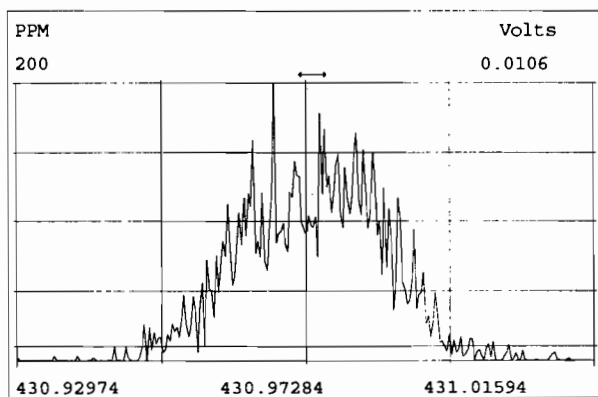




Peak Locate Examination: 5-DEC-2019:07:32 File:RES_CHECK

Experiment:OCDD_DB5 Function:4 Reference:PFK





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?	DB	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	Y	N
- Bottle position verified?	DB	<input type="checkbox"/>

	<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		
Integrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
GC Break <20%		<input type="checkbox"/> NA
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA

Comments:

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 FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (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	QC LIMITS (1)
	REFERENCE	RET	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

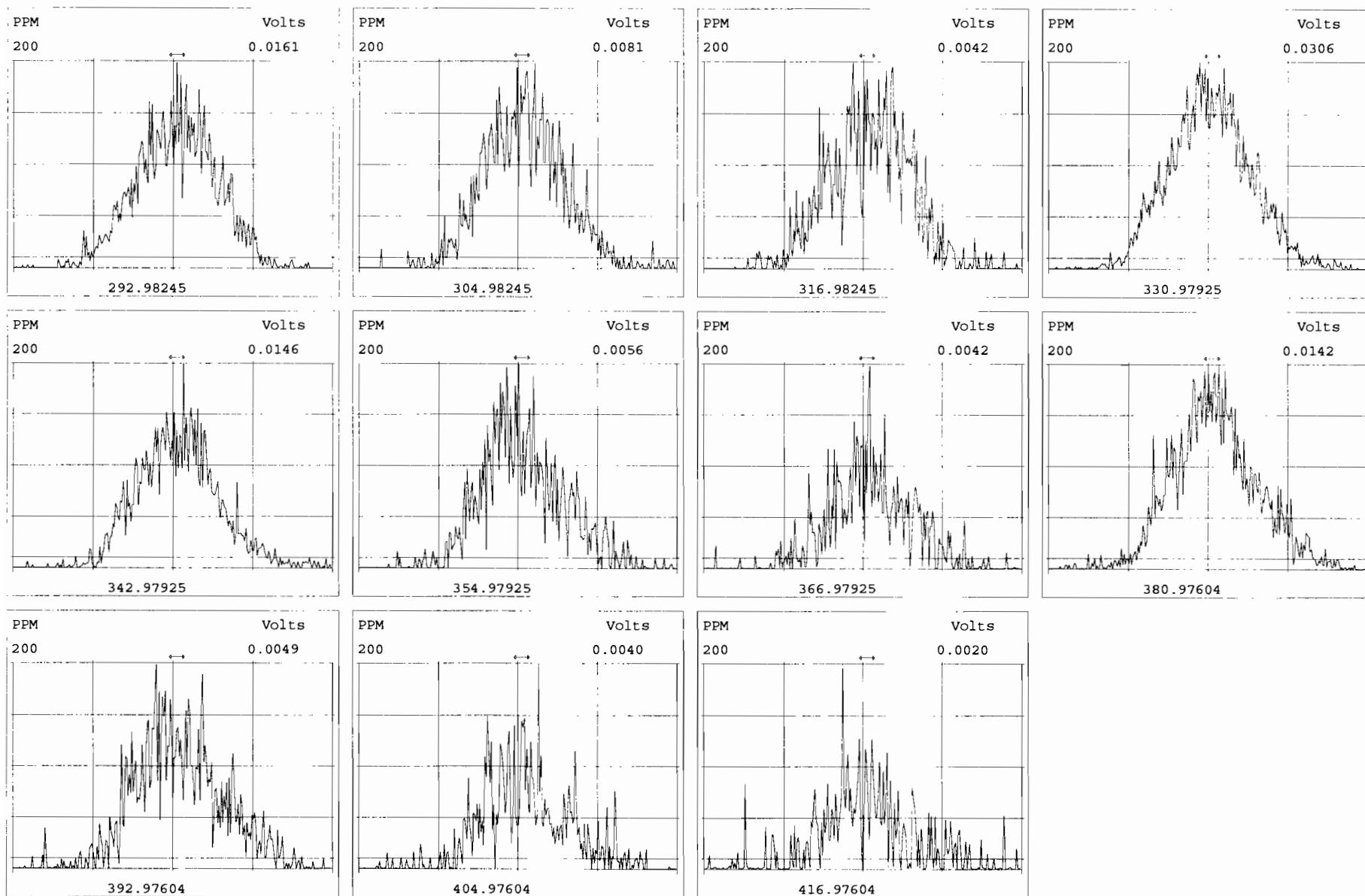
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GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

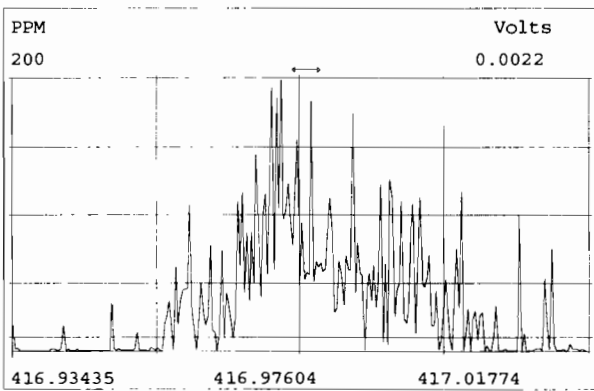
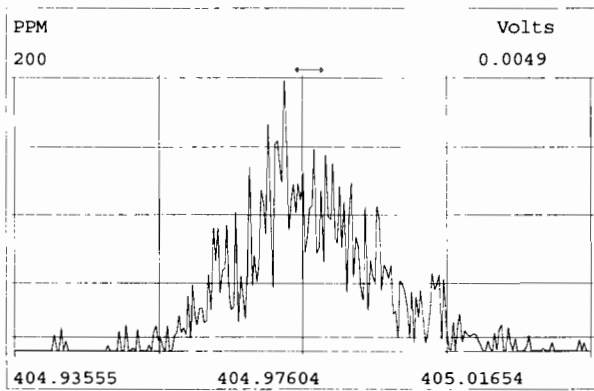
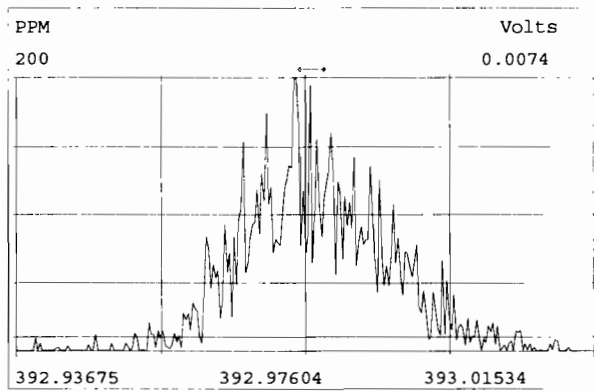
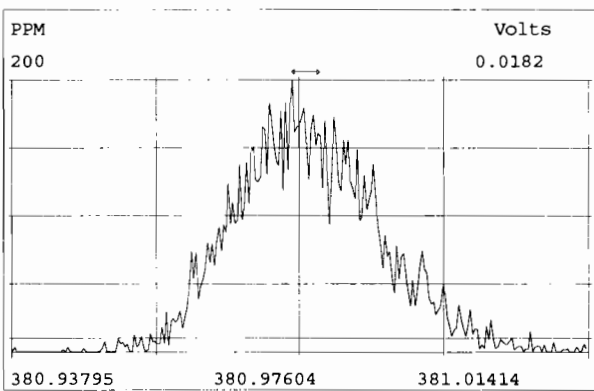
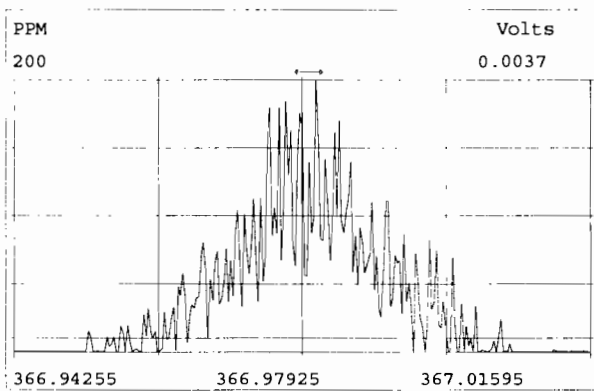
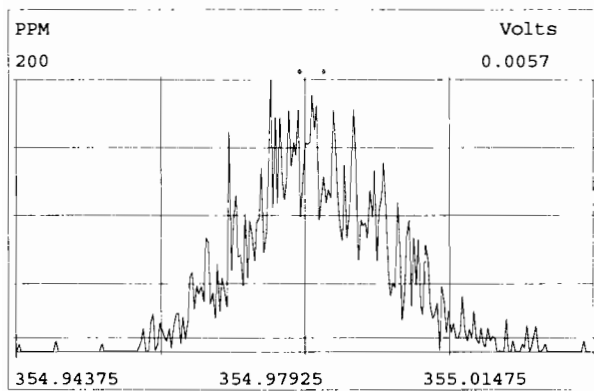
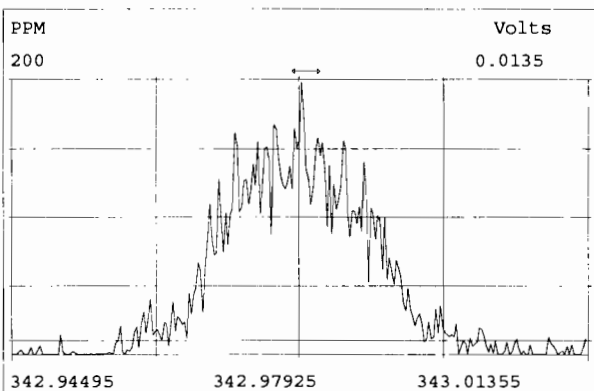
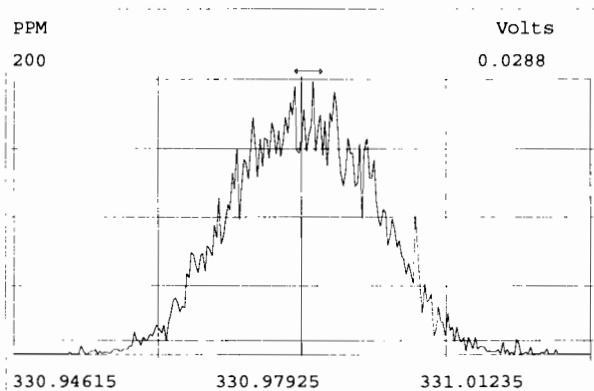
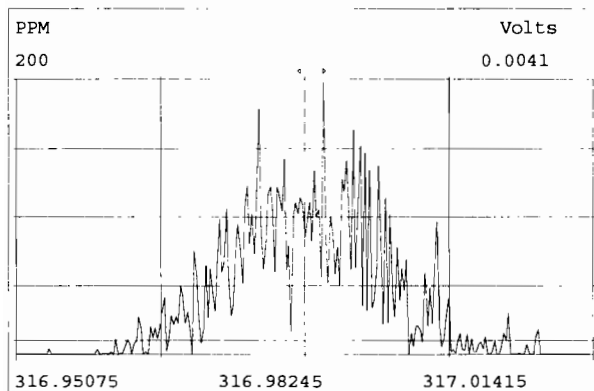
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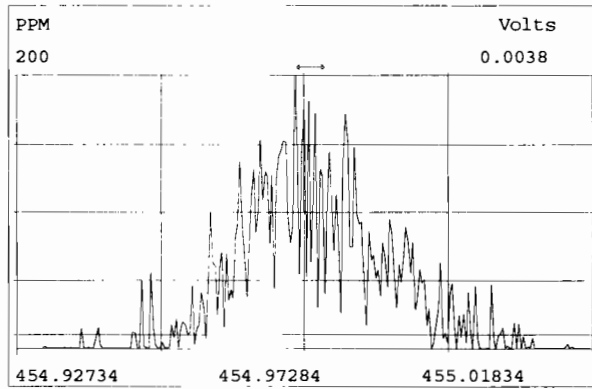
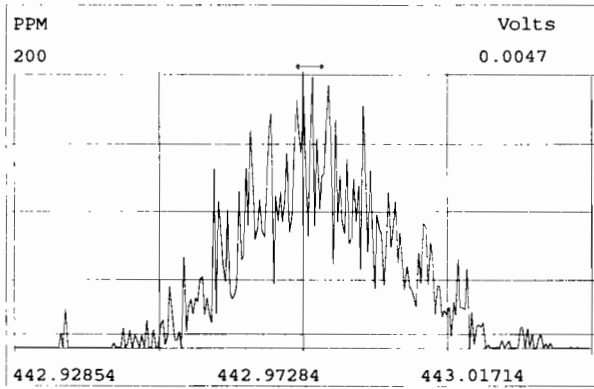
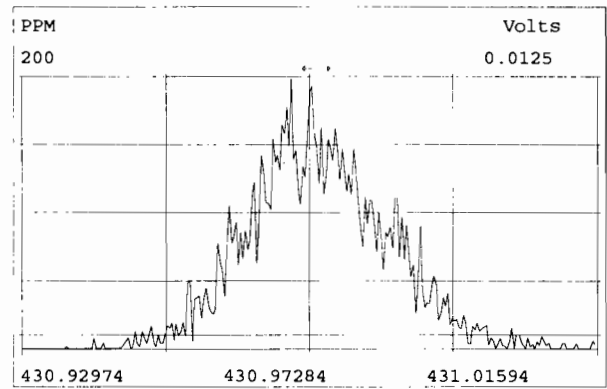
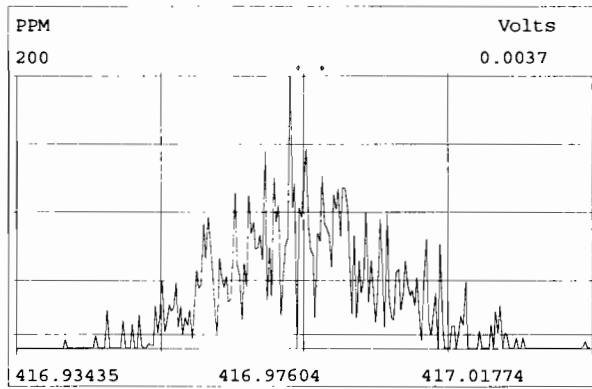
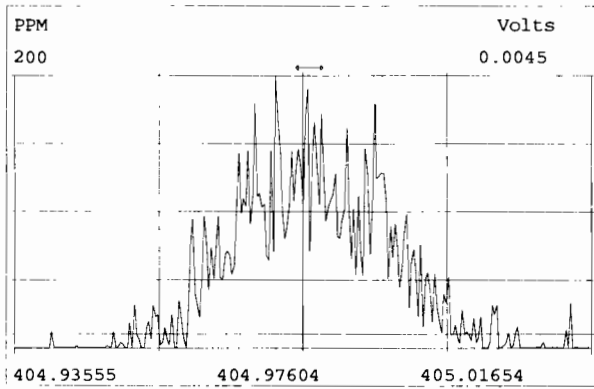
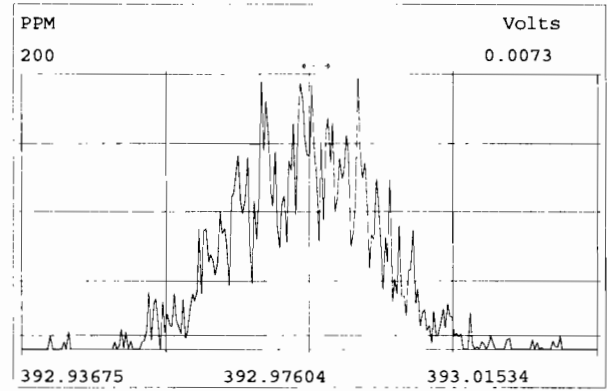
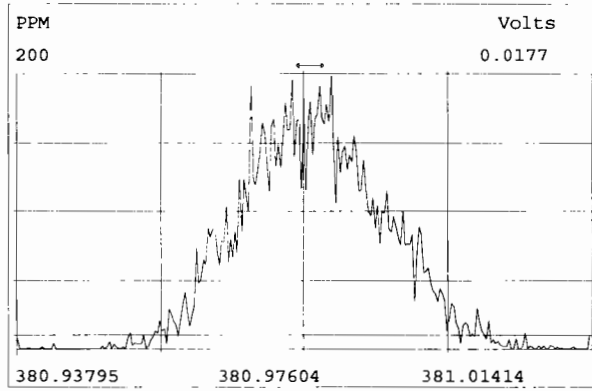
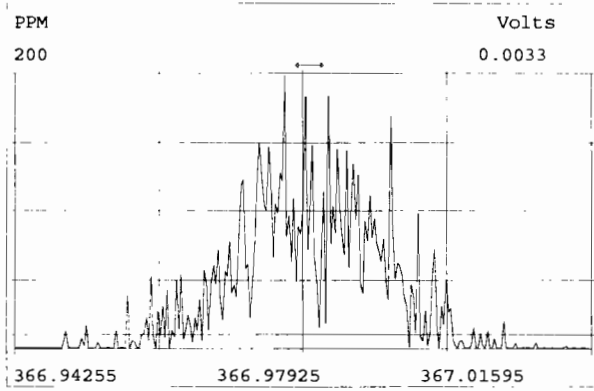
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	7.22e+05	0.79 y	0.91	26:05	10.336		* 2.5		*	Total Tetra-Dioxins	74.0	75.1		*	*
1,2,3,7,8-PeCDD	2.81e+06	0.65 y	0.90	30:37	50.623		* 2.5		*	Total Penta-Dioxins	203	204		*	*
1,2,3,4,7,8-HxCDD	2.55e+06	1.24 y	1.10	33:54	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
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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
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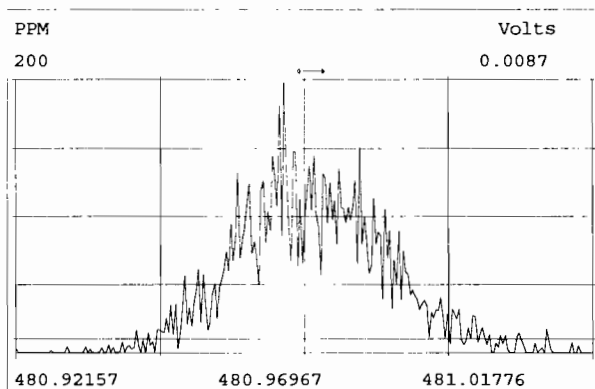
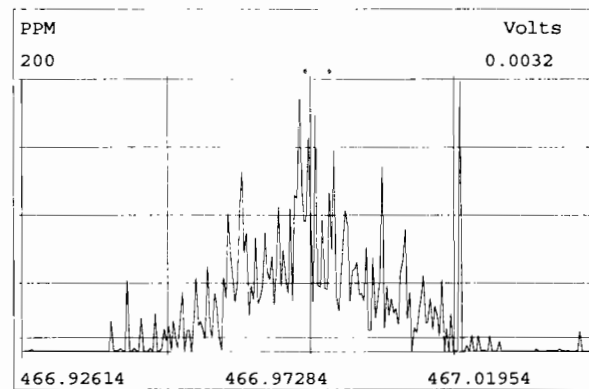
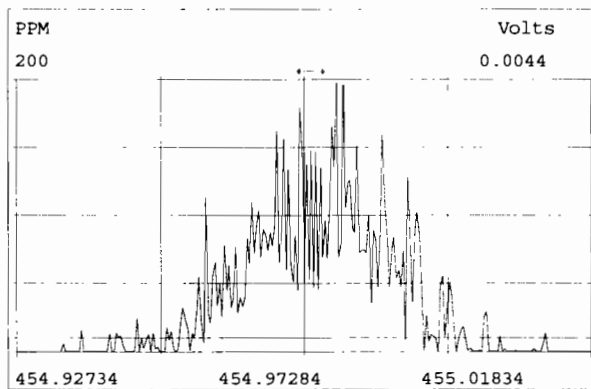
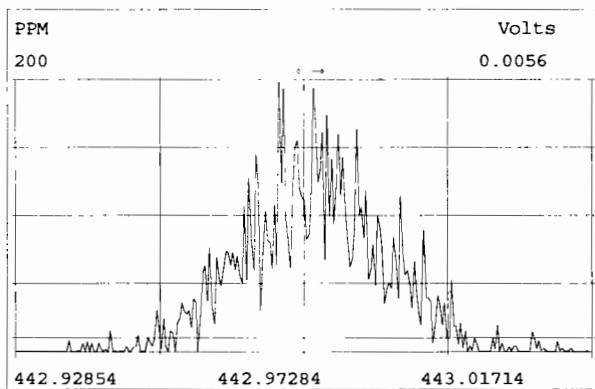
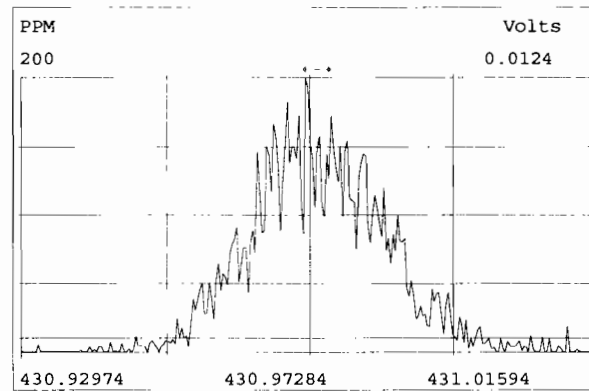
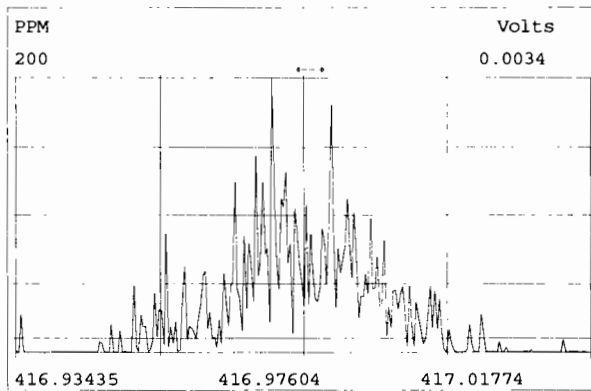
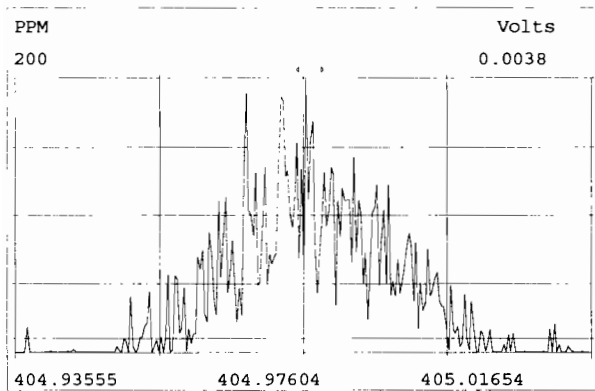


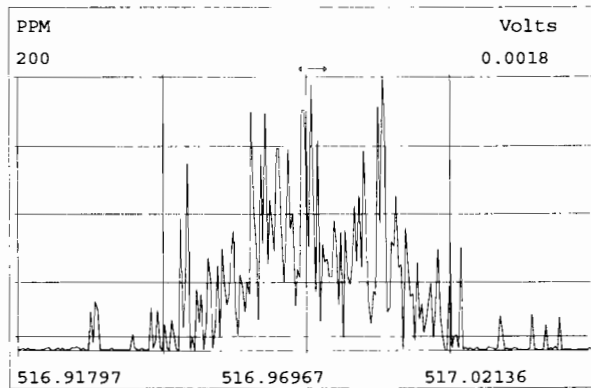
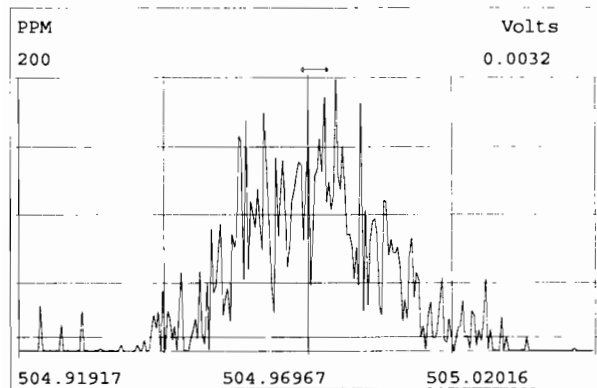
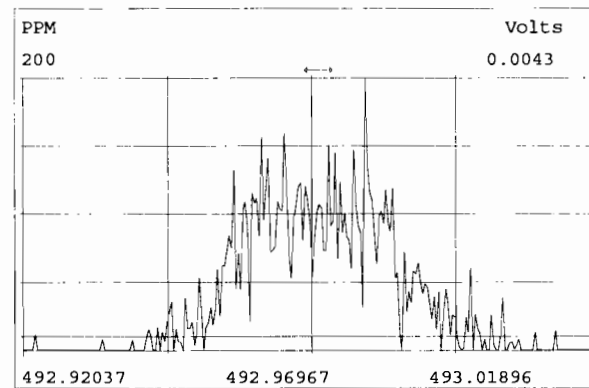
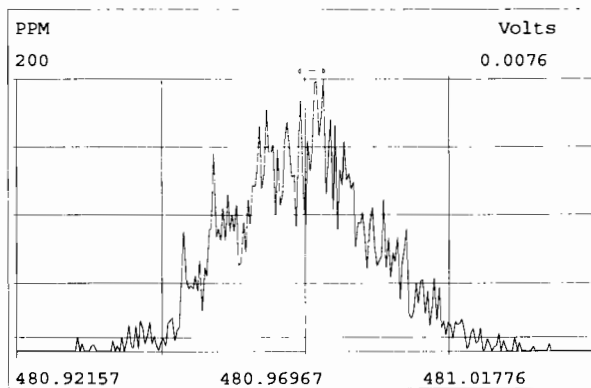
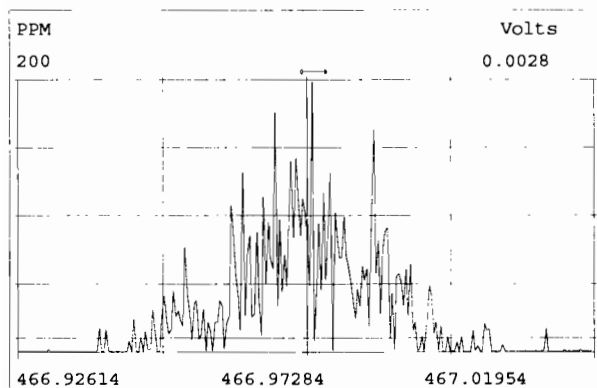
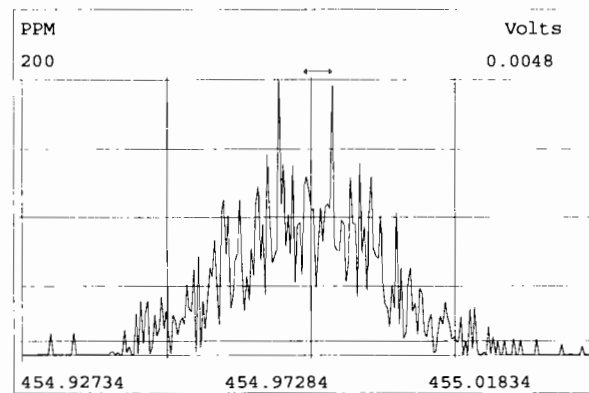
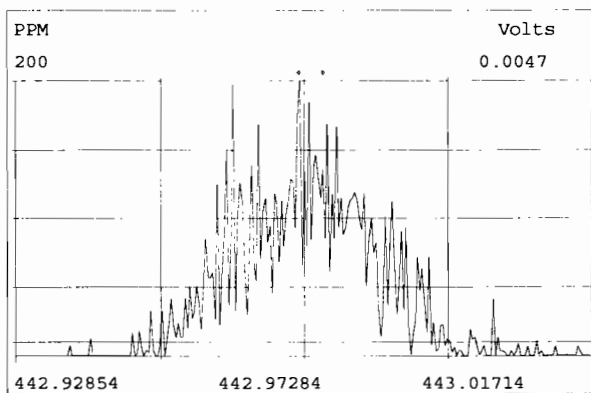
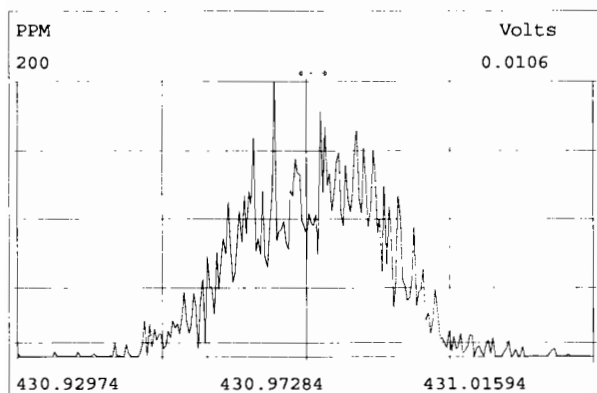




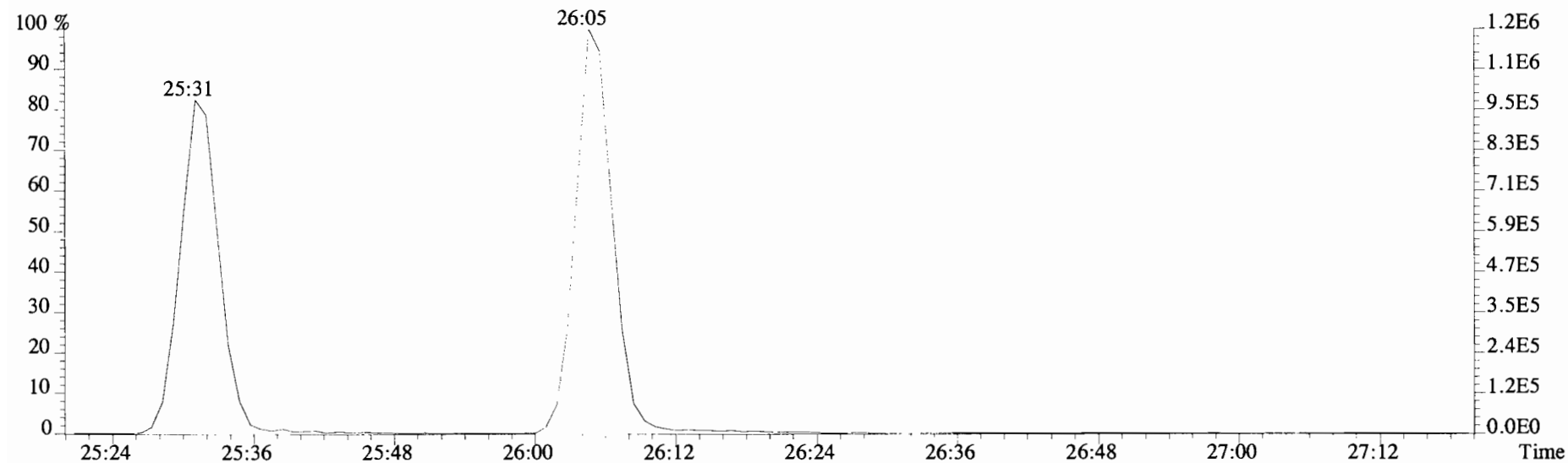
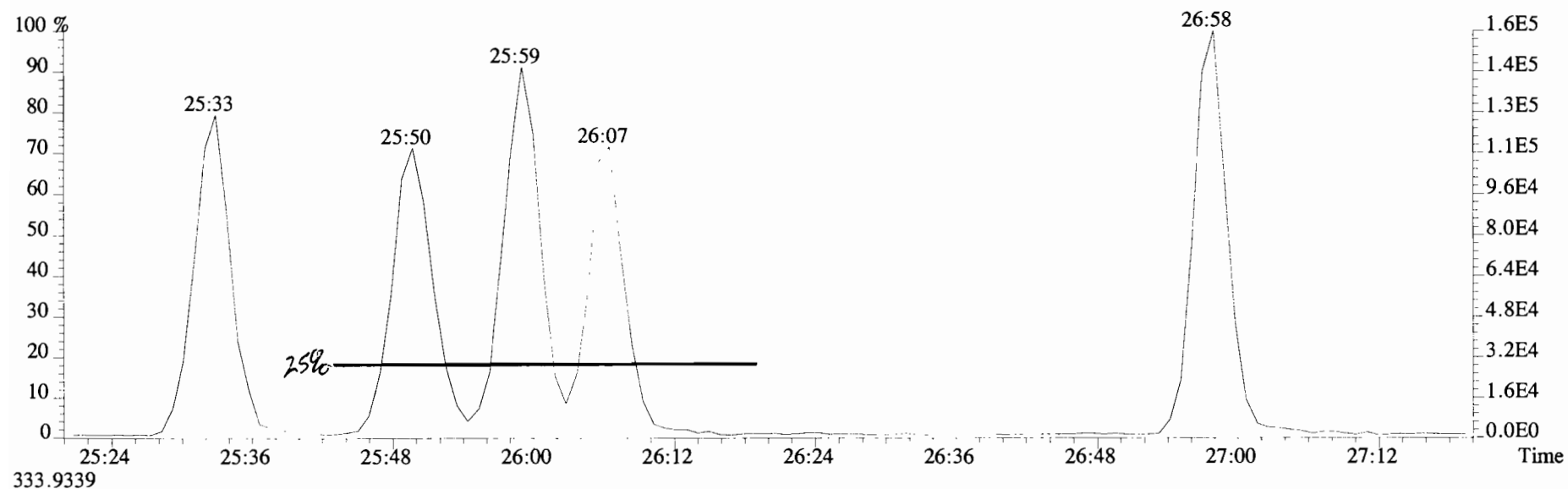
Peak Locate Examination: 5-DEC-2019:07:32 File:RES_CHECK

Experiment:OCDD_DB5 Function:4 Reference:PFK

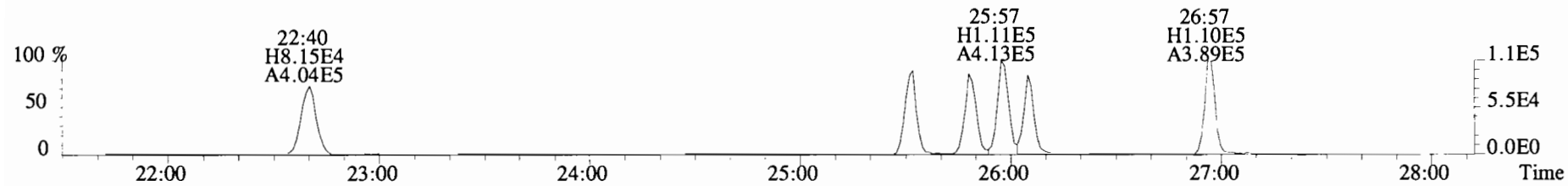




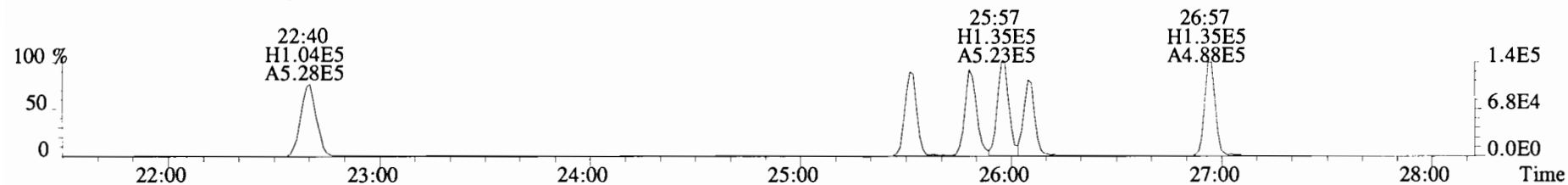
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Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
321.8936



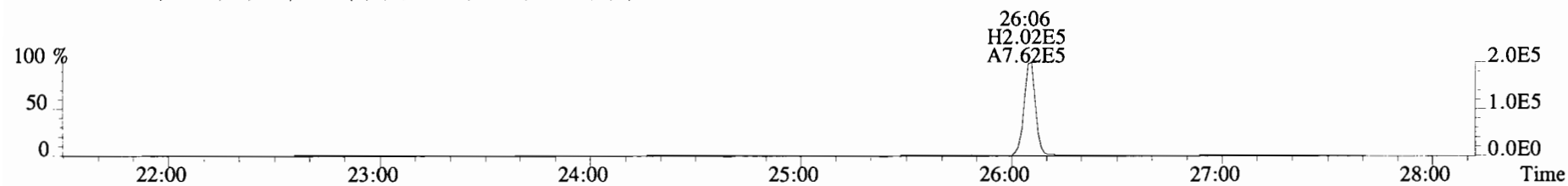
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Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
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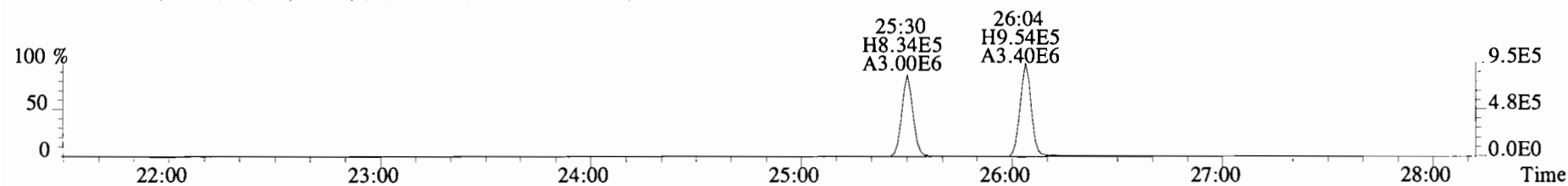
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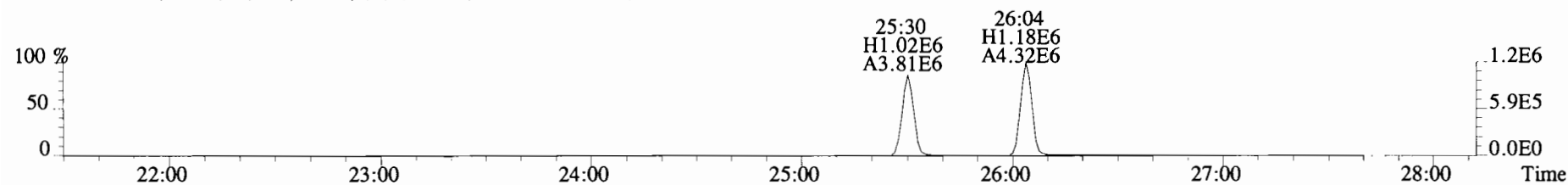
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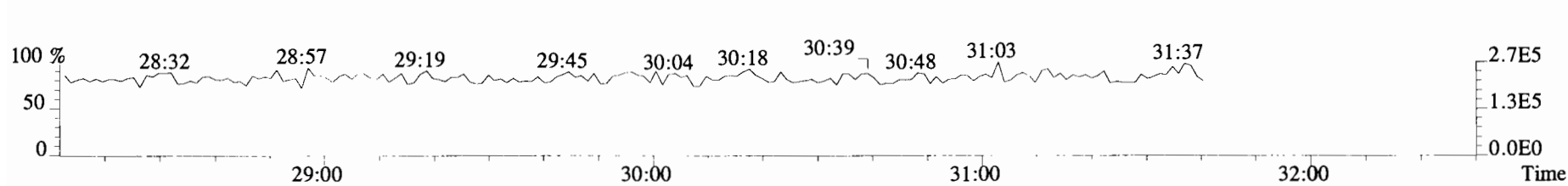
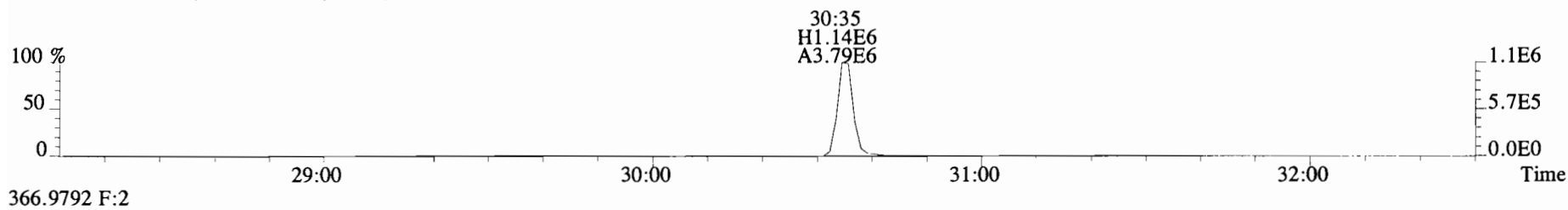
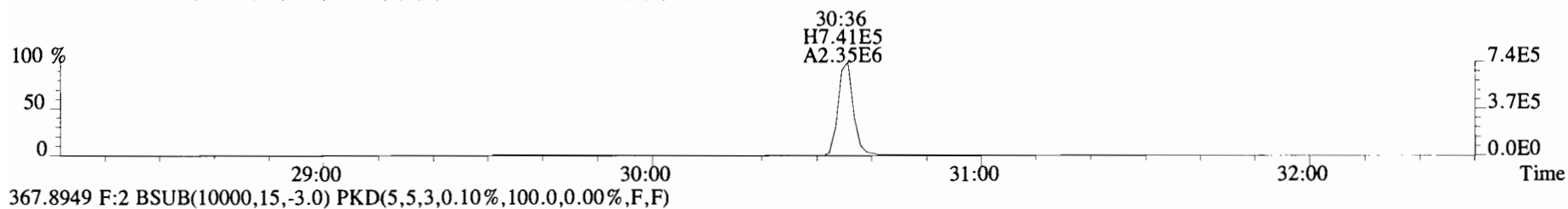
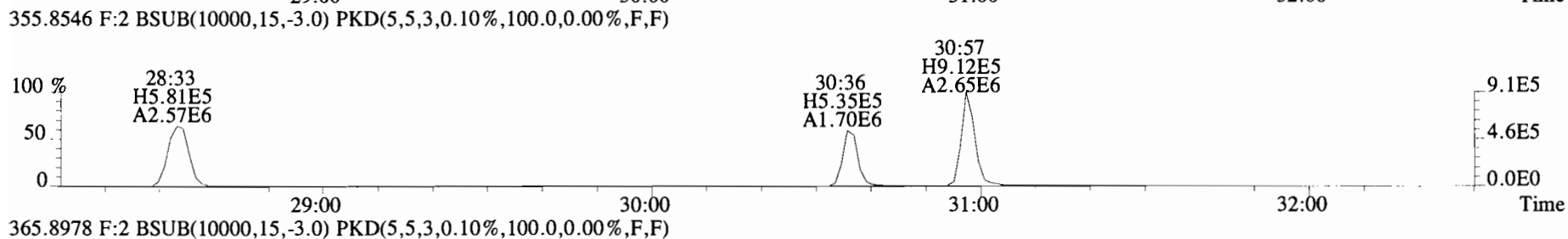
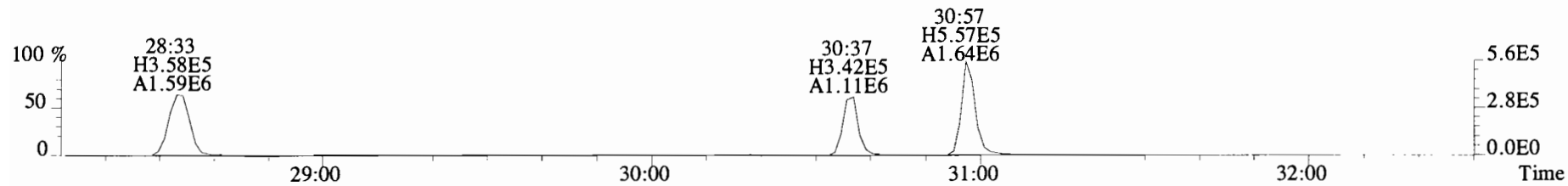
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



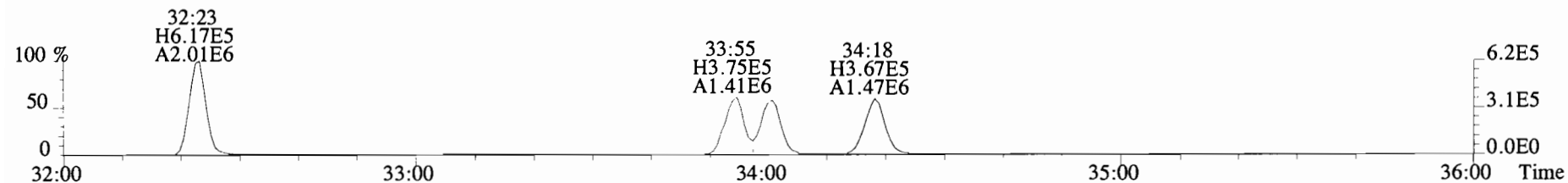
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



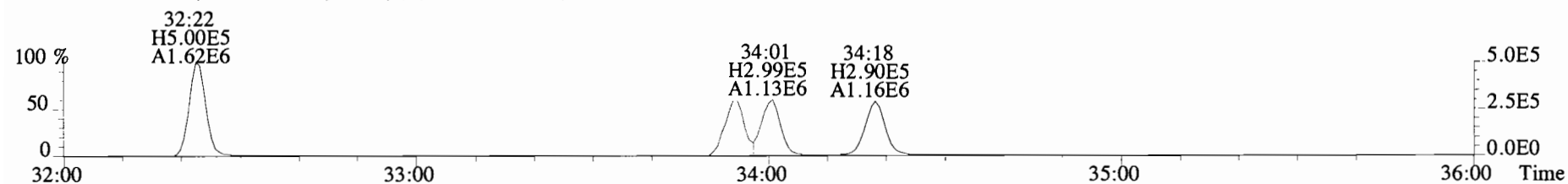
File:191204D2 #1-211 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



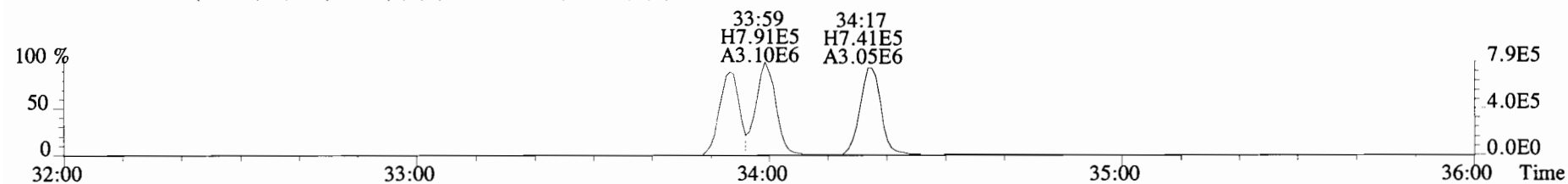
File:191204D2 #1-385 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



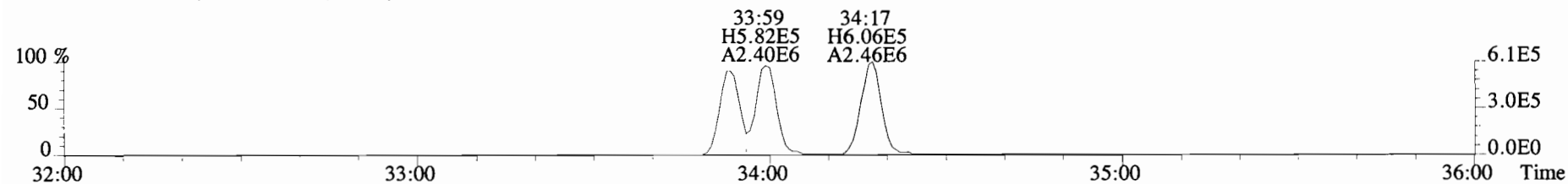
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



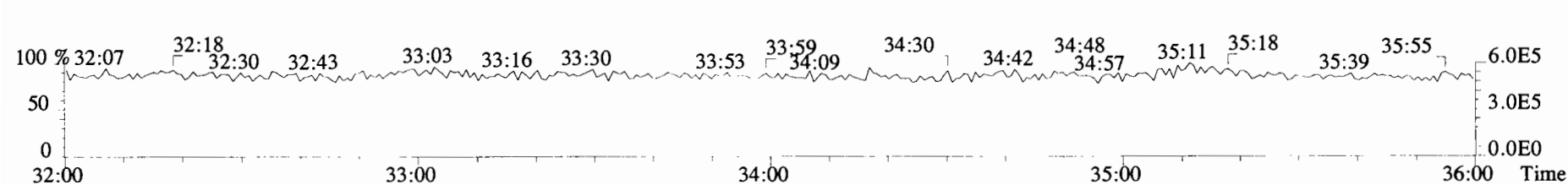
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



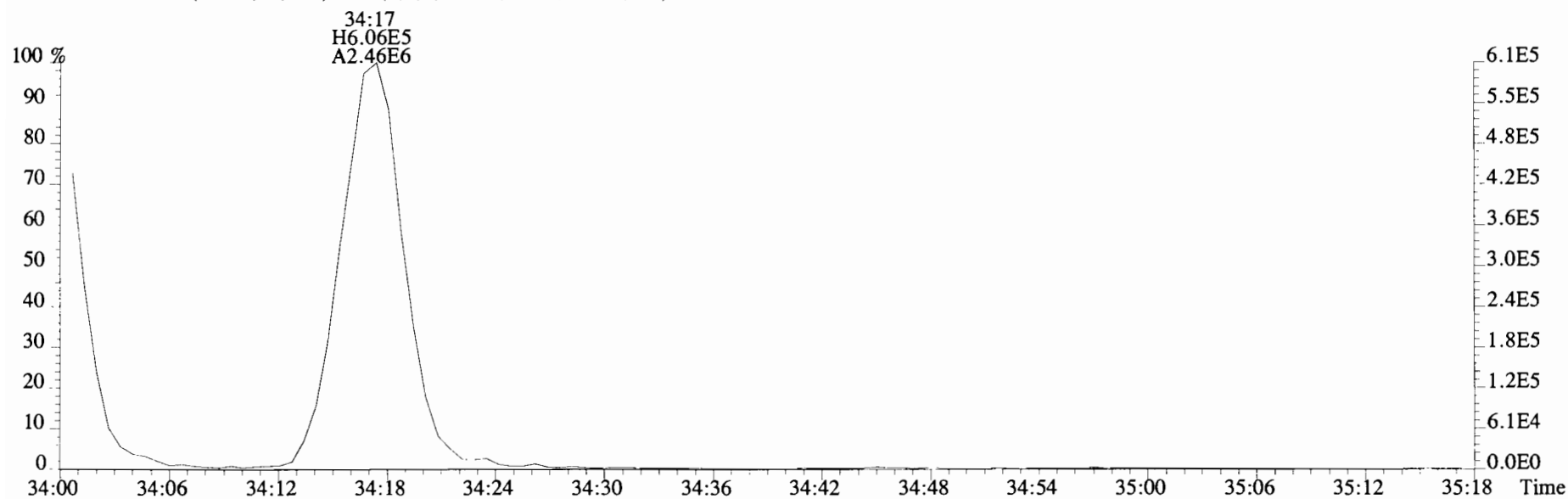
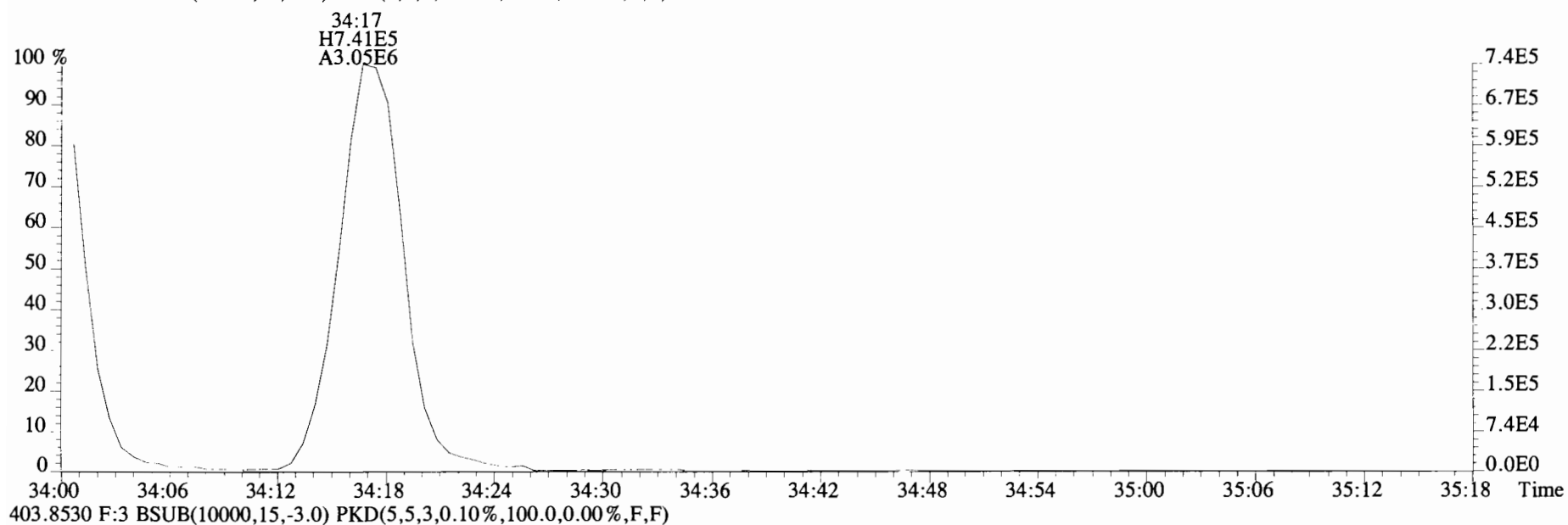
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



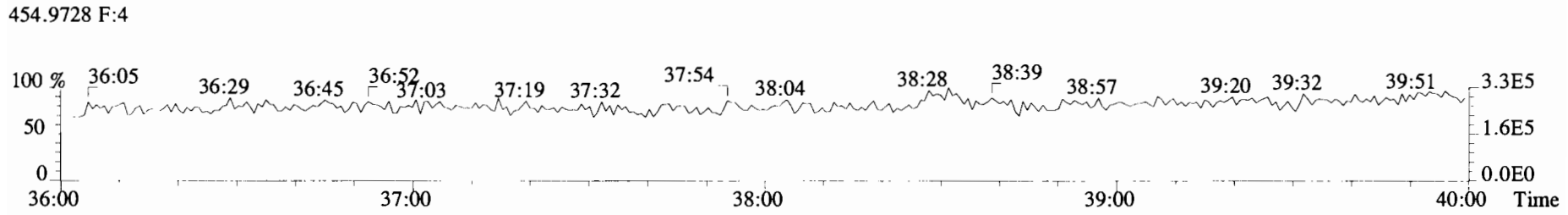
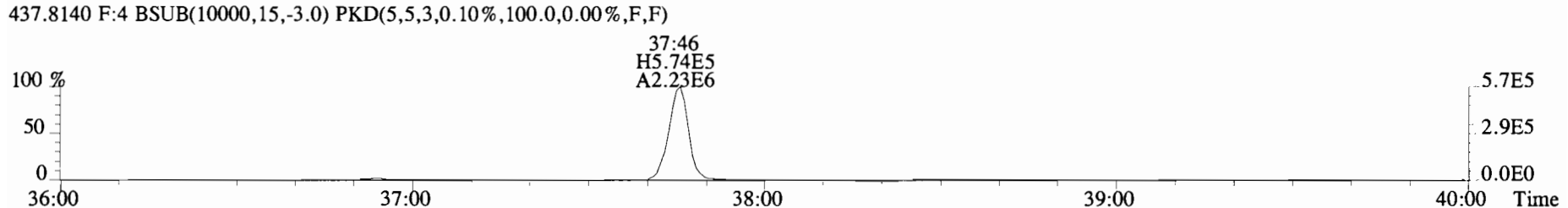
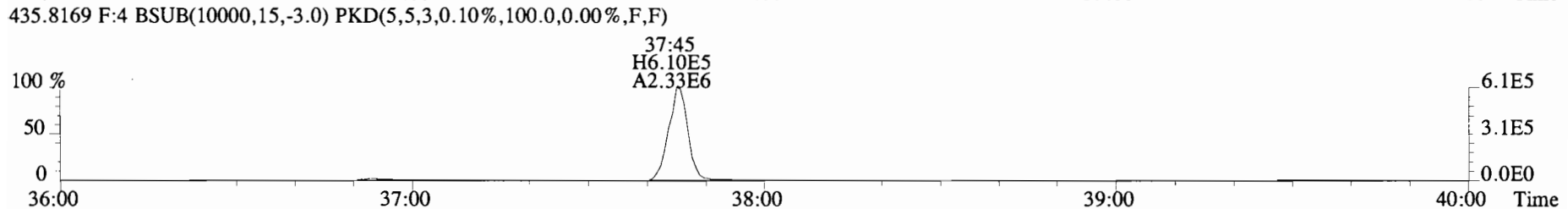
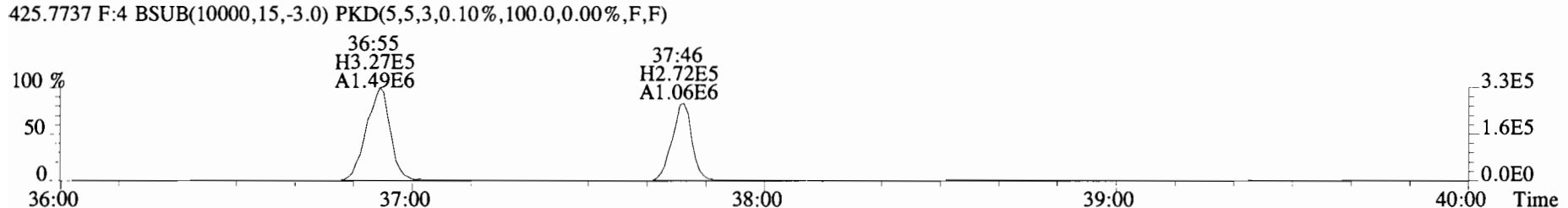
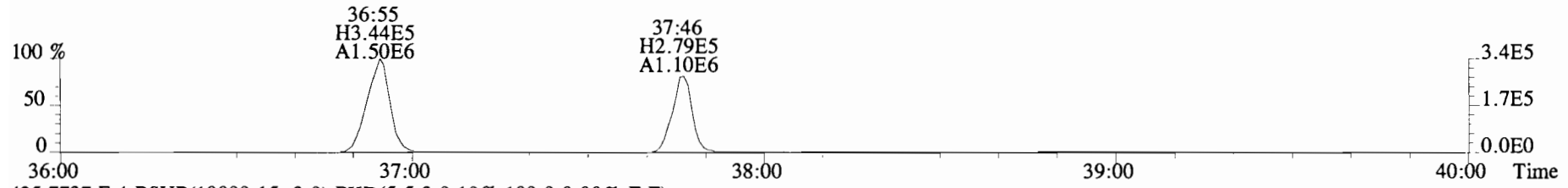
392.9760 F:3



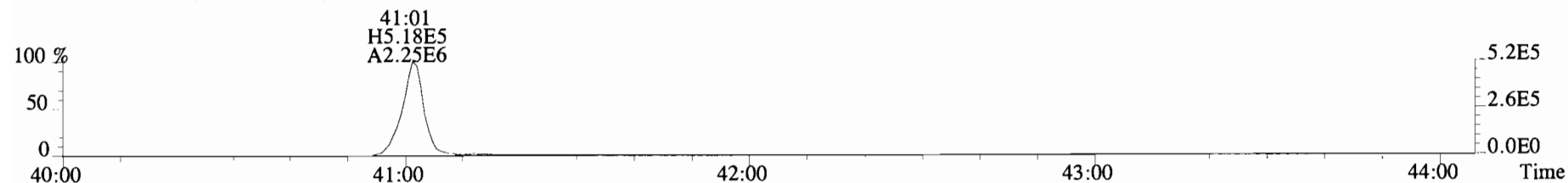
File:191204D2 #1-385 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



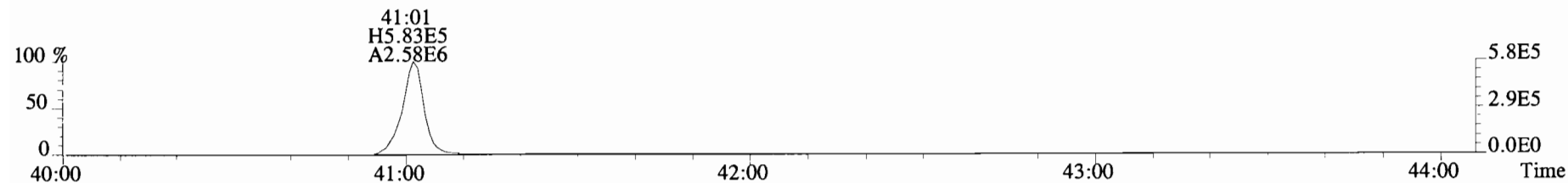
File:191204D2 #1-355 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



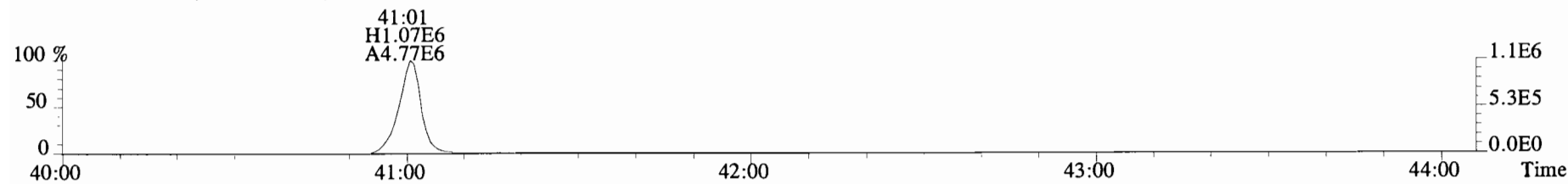
File:191204D2 #1-432 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



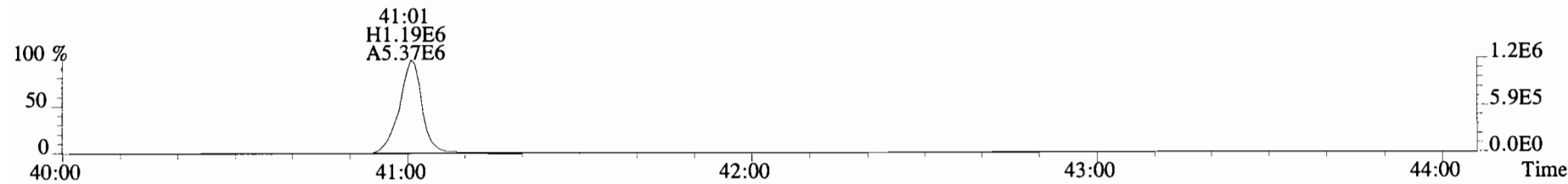
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



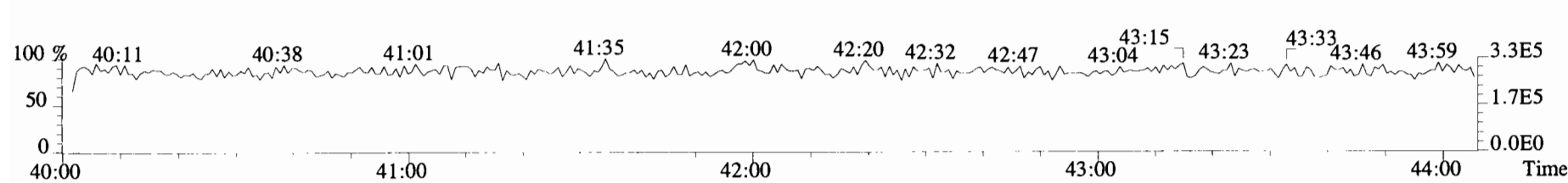
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



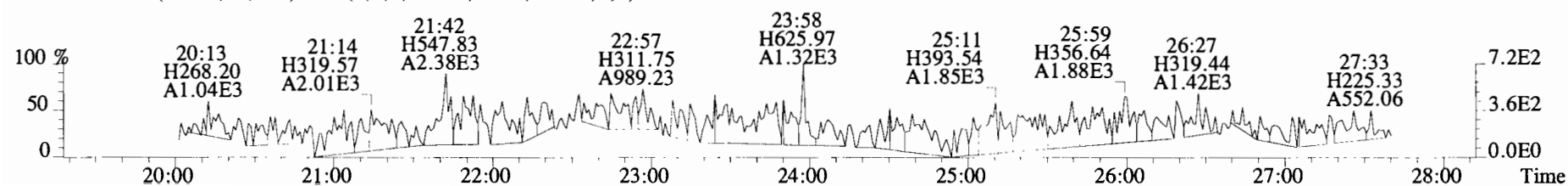
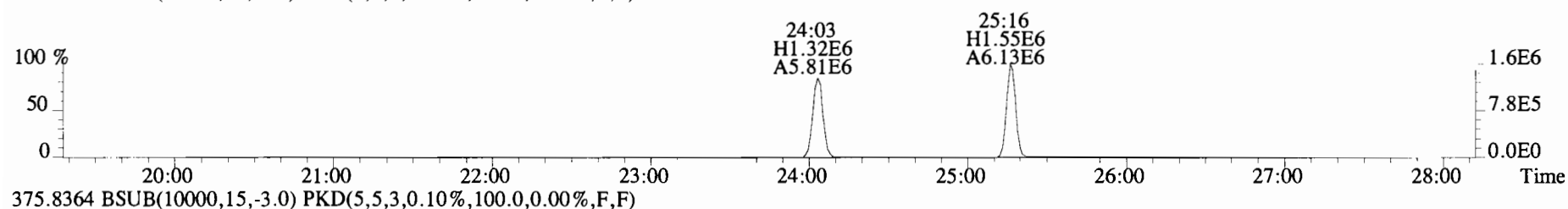
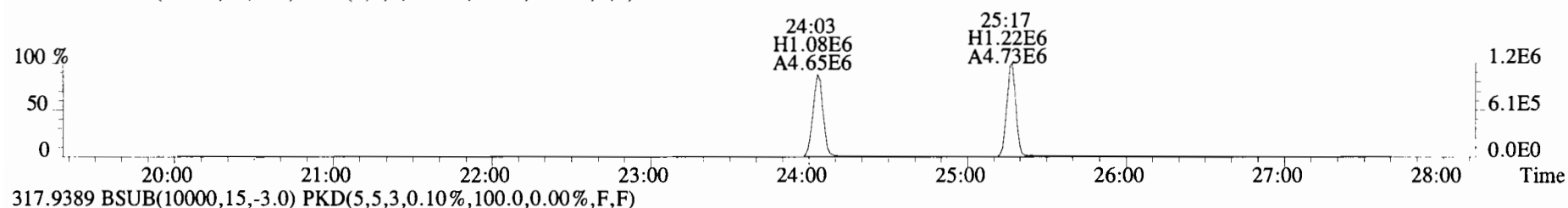
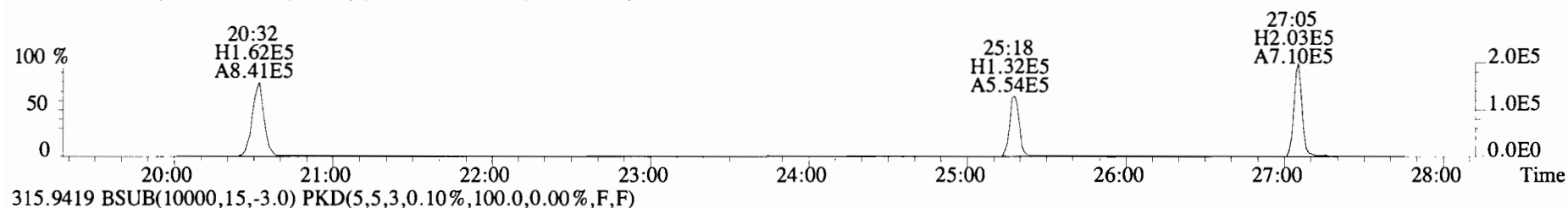
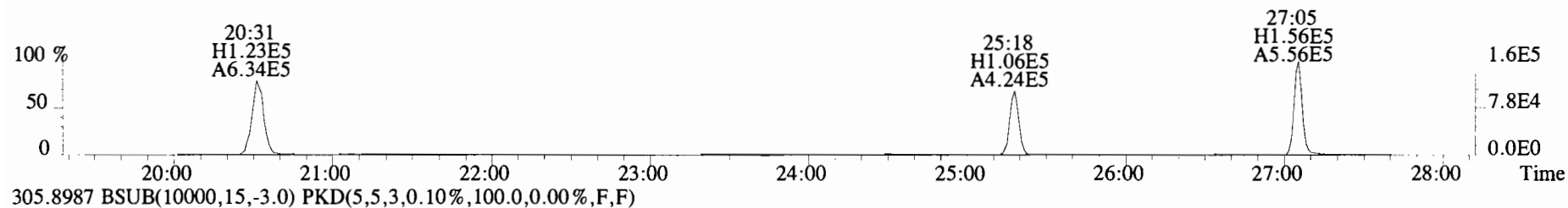
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



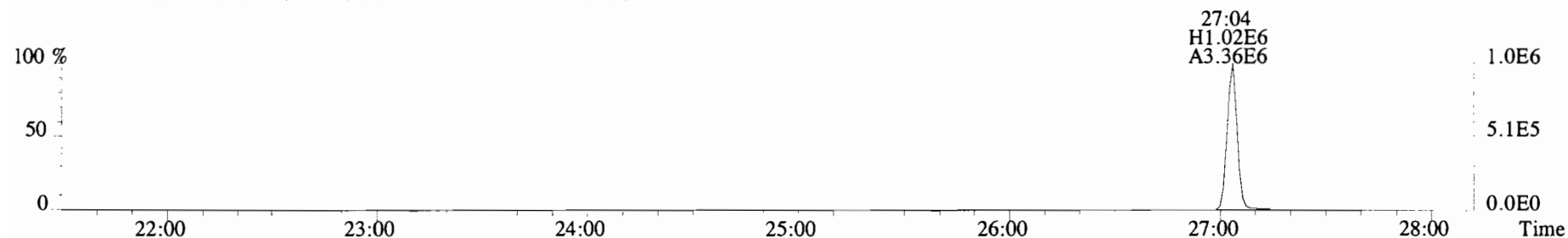
454.9728 F:5



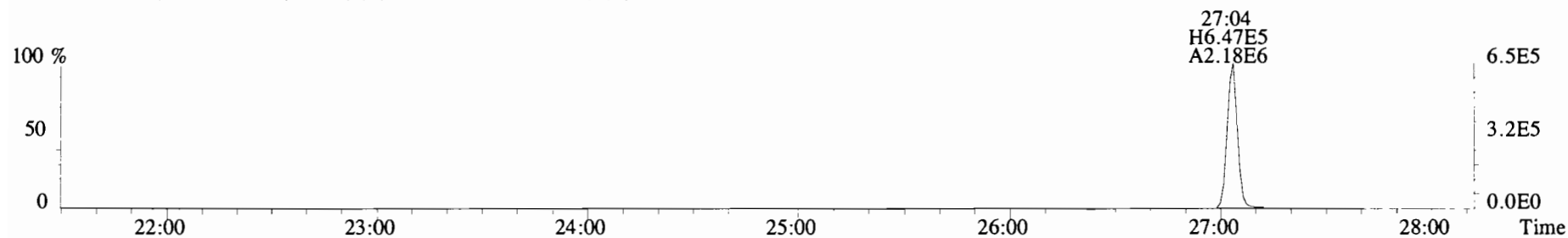
File:191204D2 #1-492 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



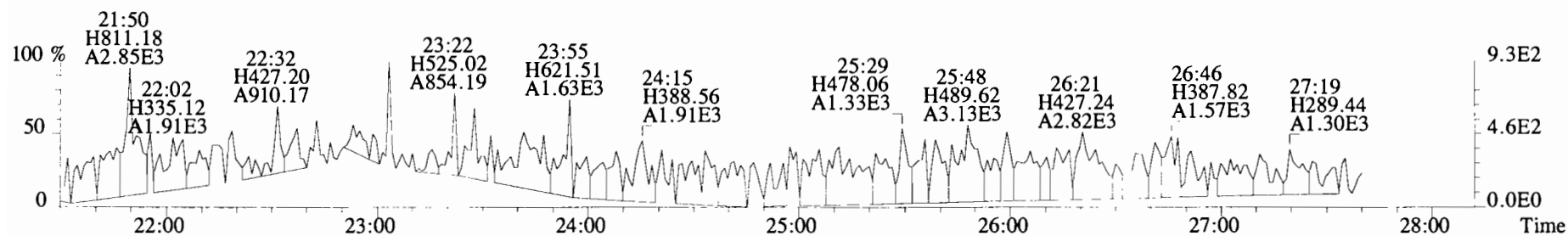
File:191204D2 #1-492 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



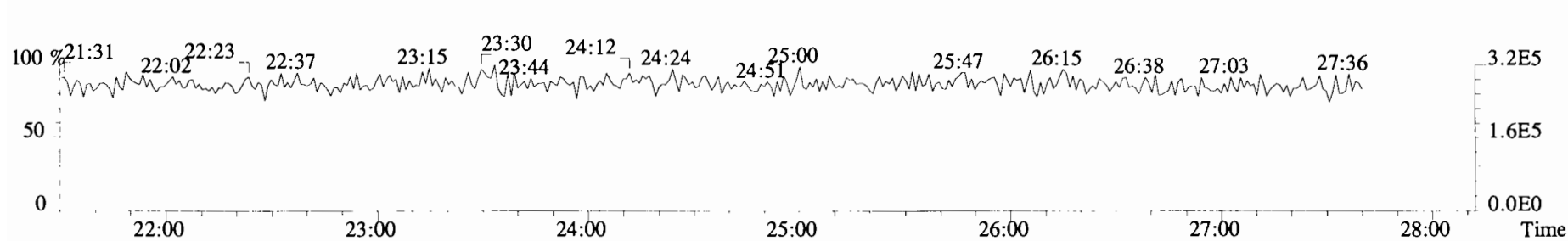
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



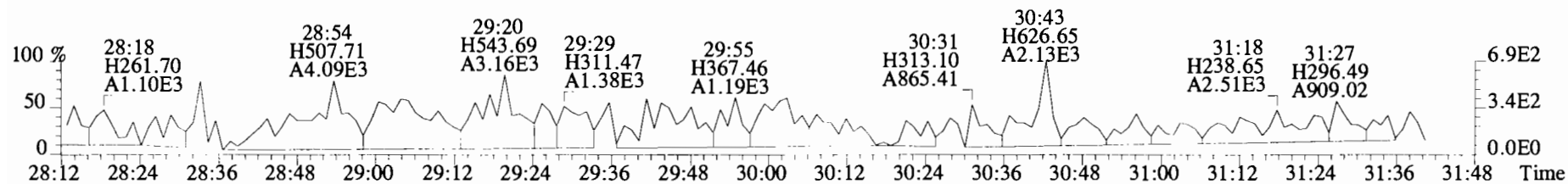
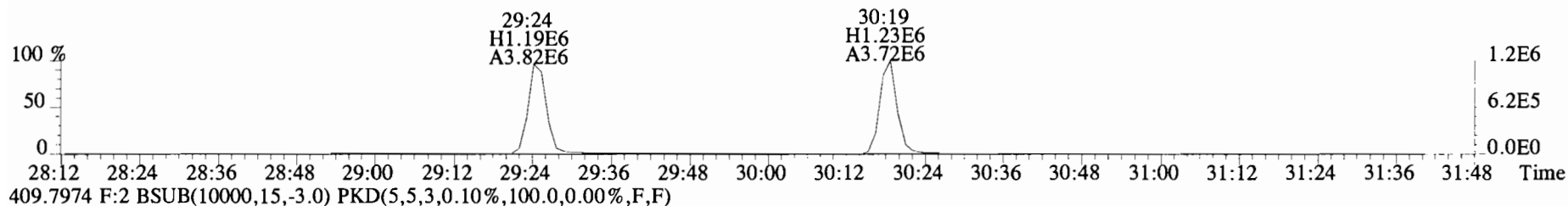
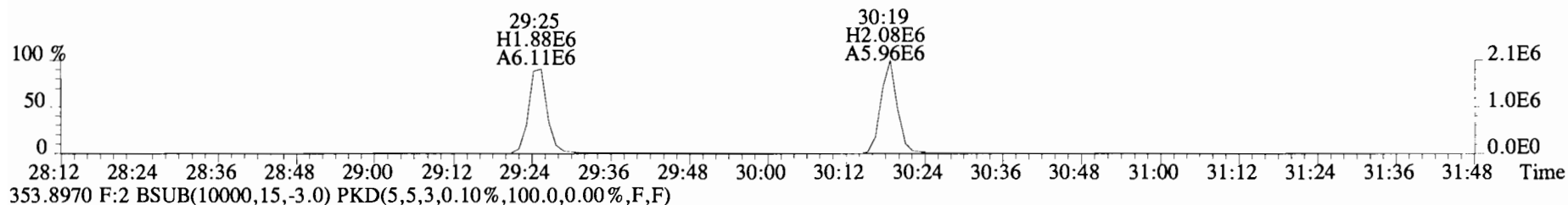
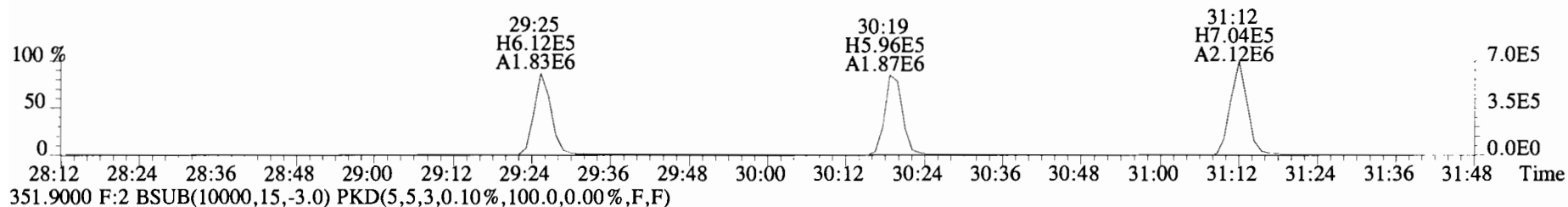
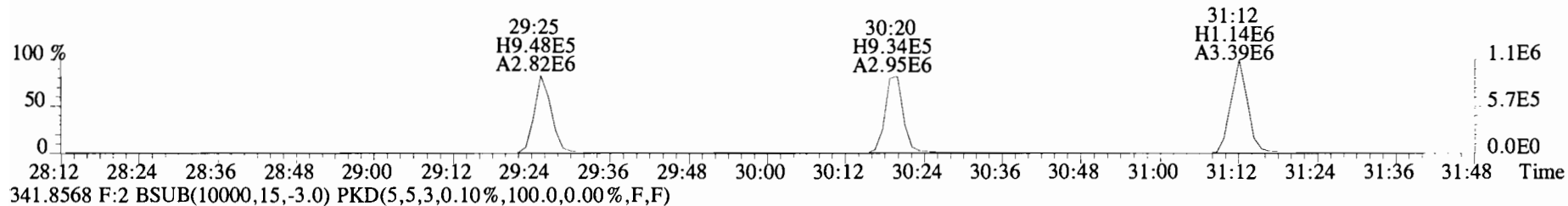
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



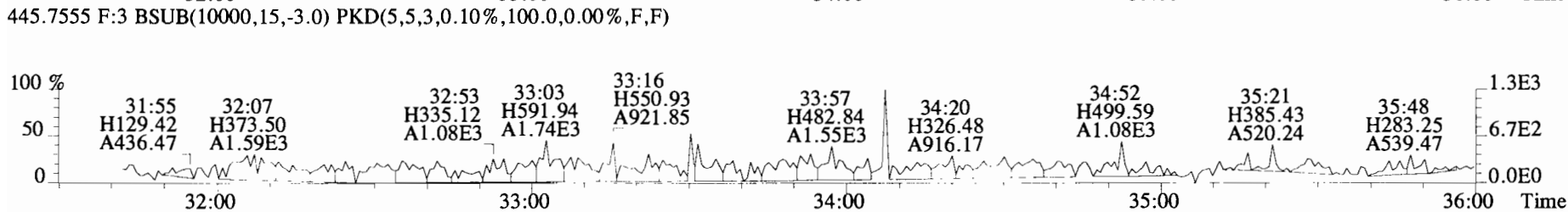
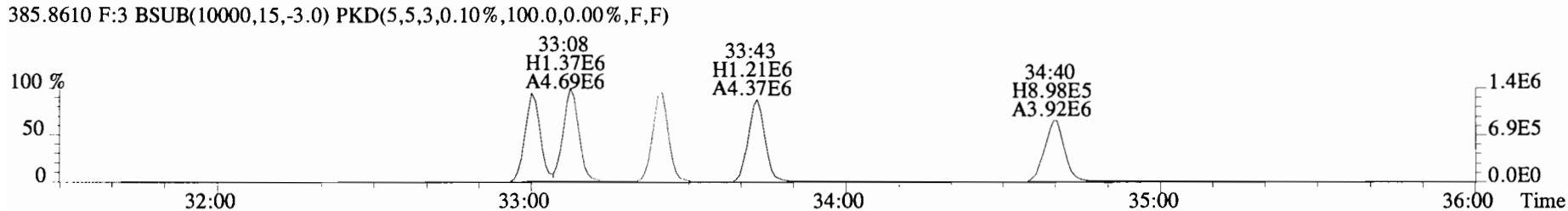
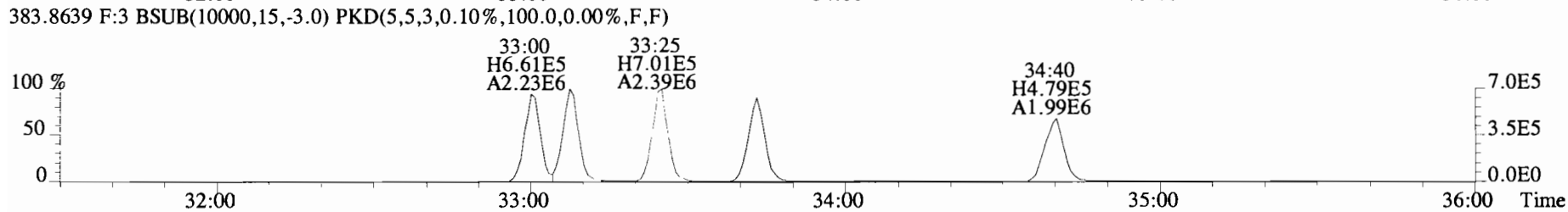
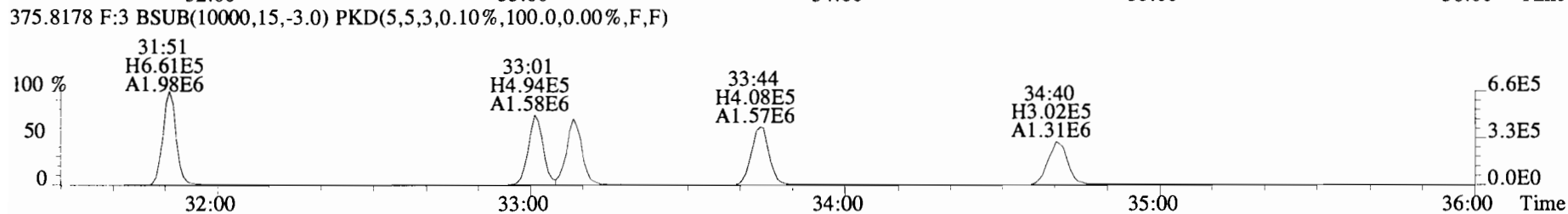
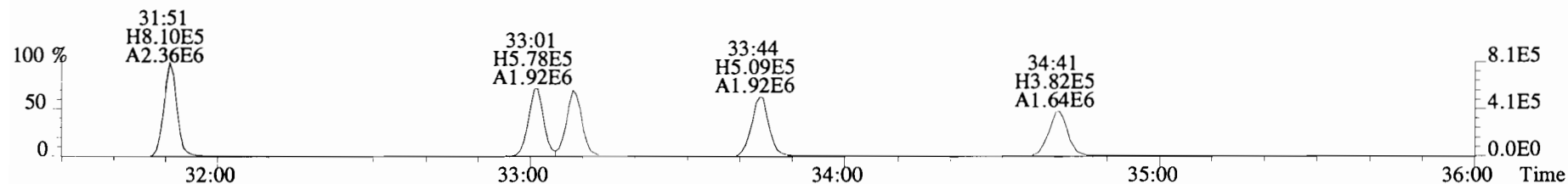
316.9824



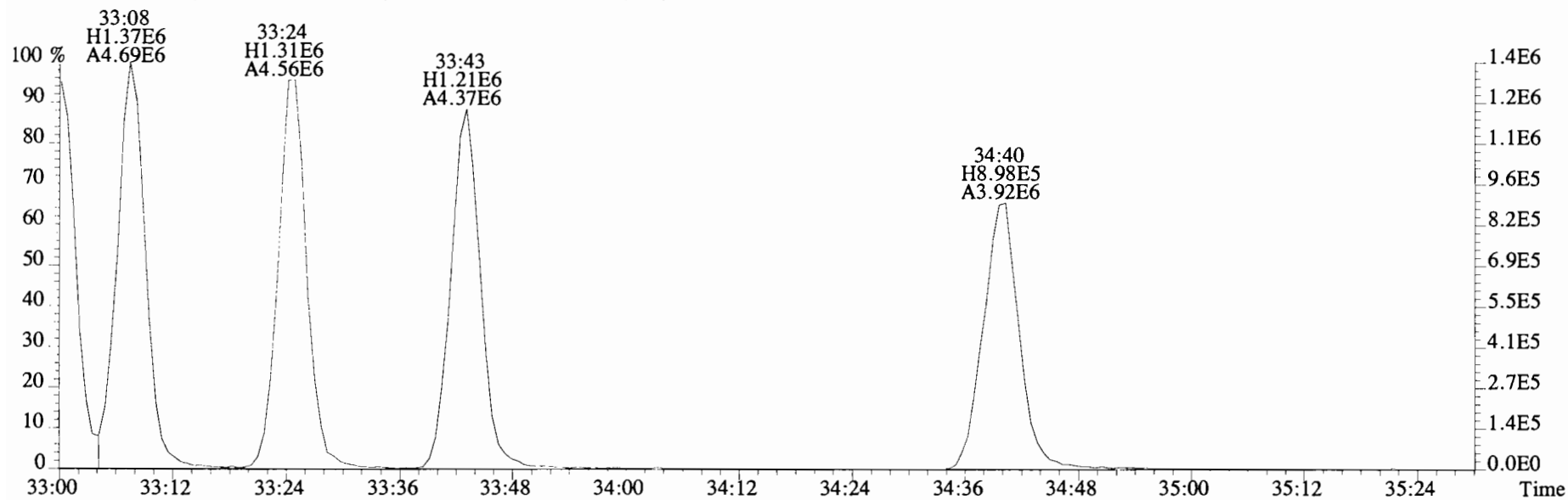
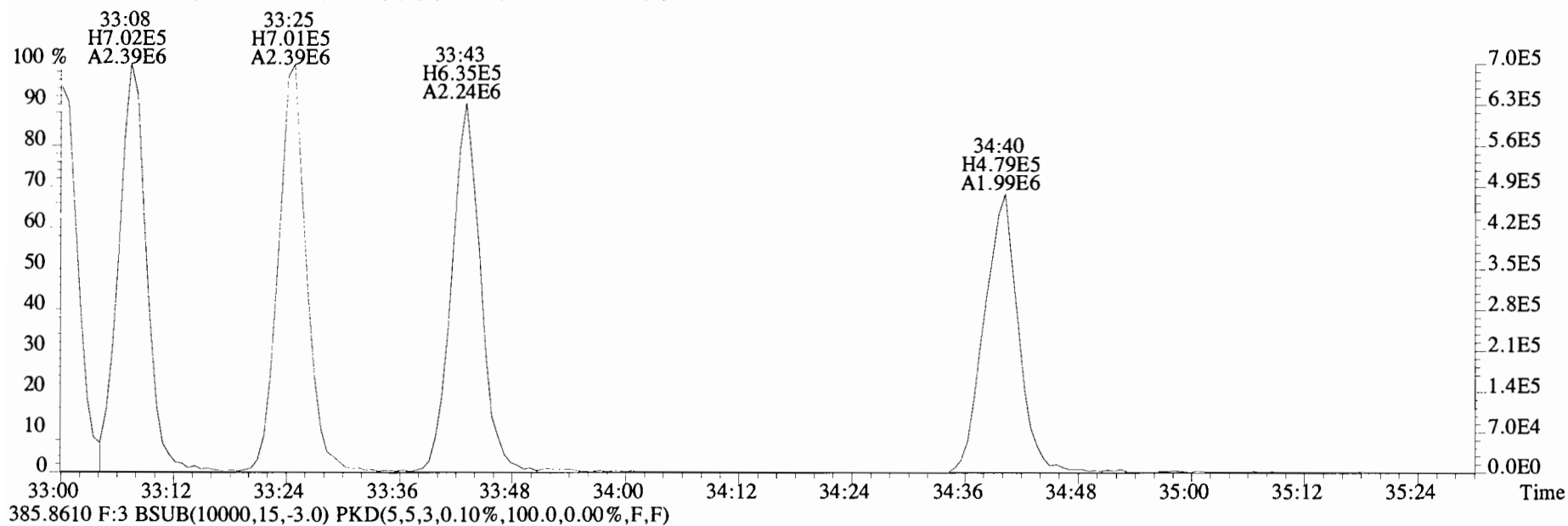
File:191204D2 #1-211 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



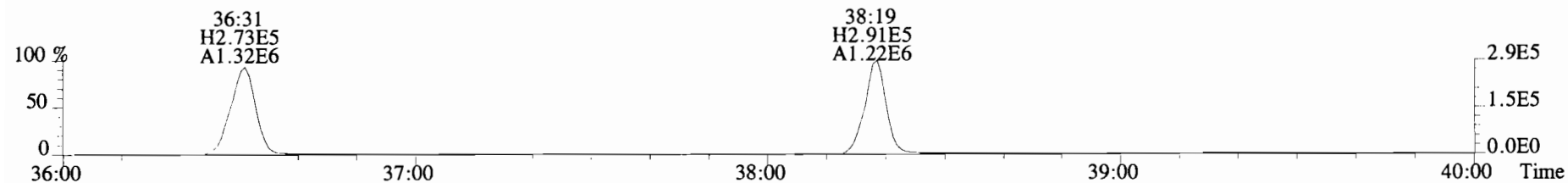
File:191204D2 #1-385 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



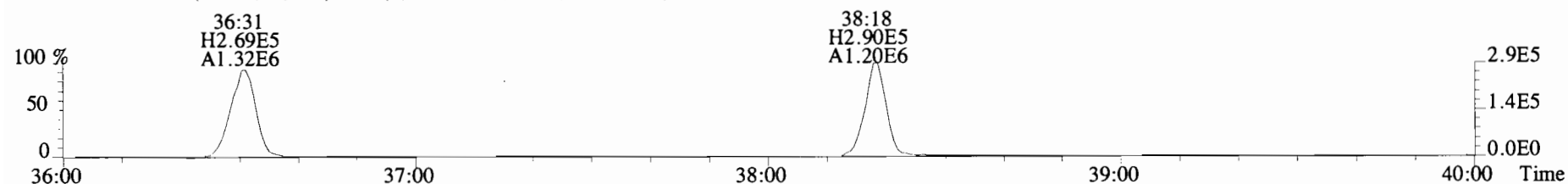
File:191204D2 #1-385 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



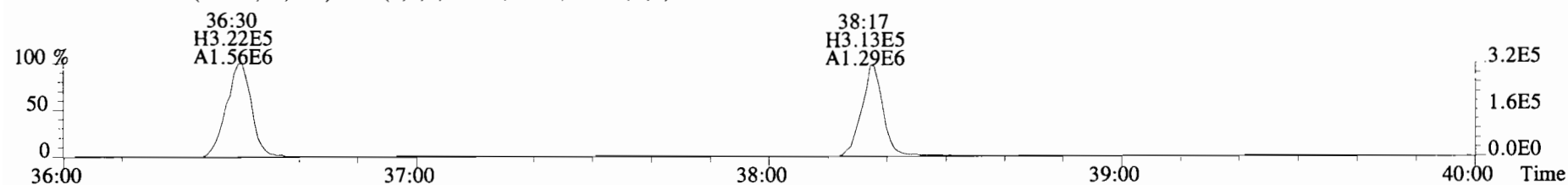
File:191204D2 #1-355 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text: Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



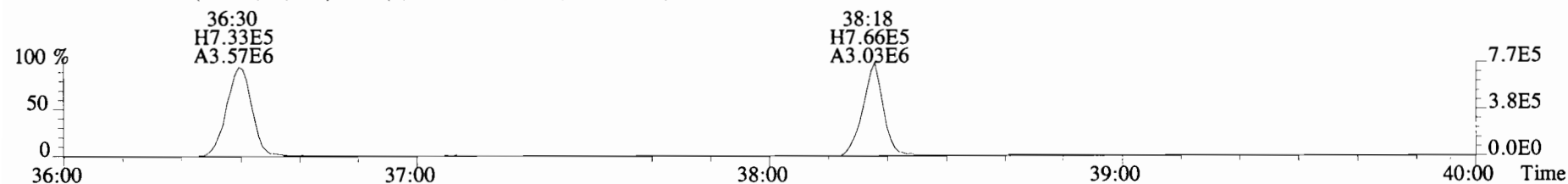
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



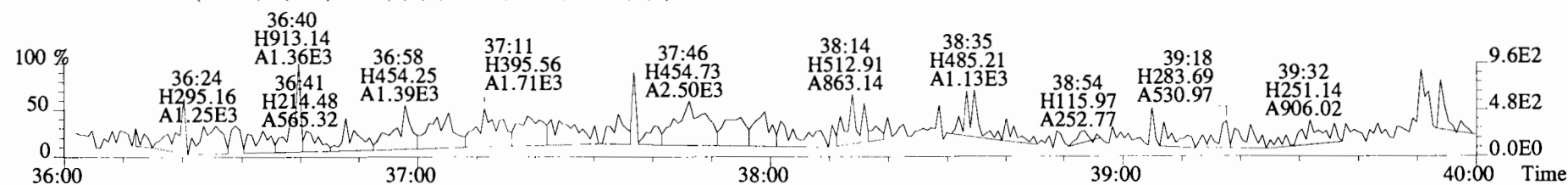
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



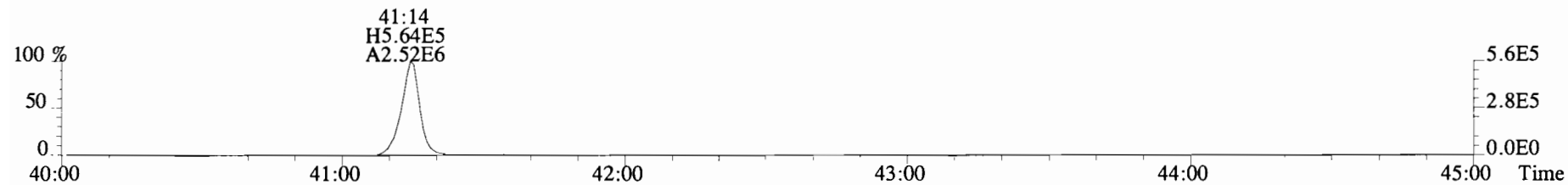
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



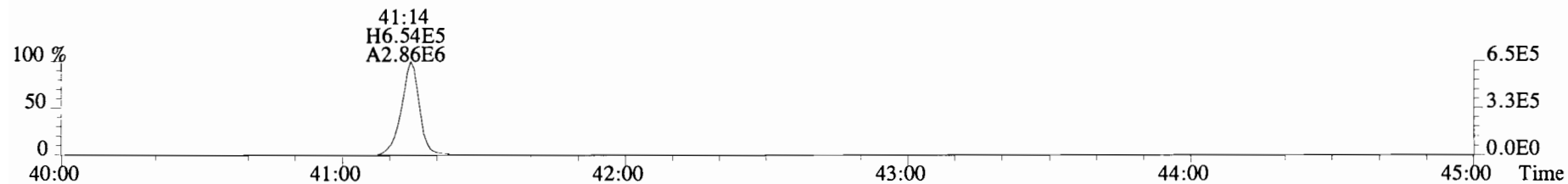
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



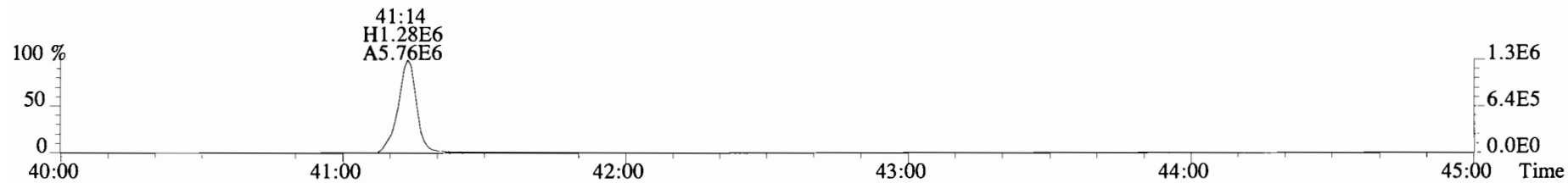
File:191204D2 #1-432 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



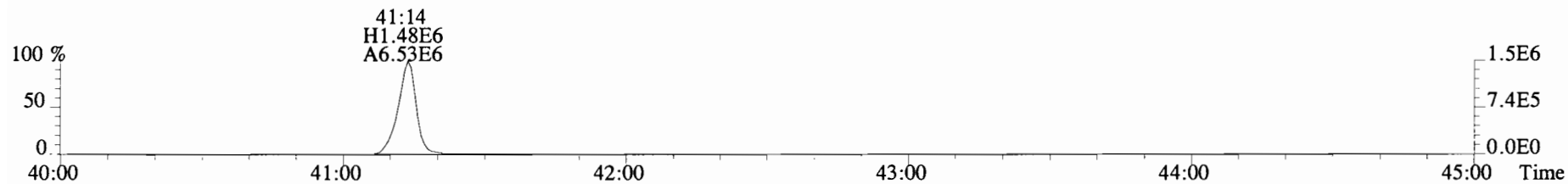
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



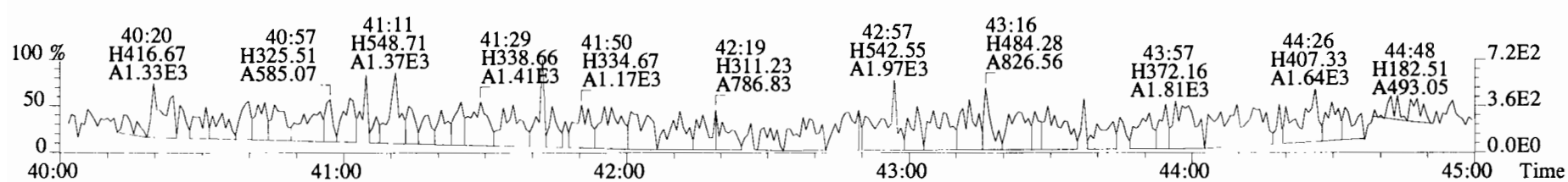
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

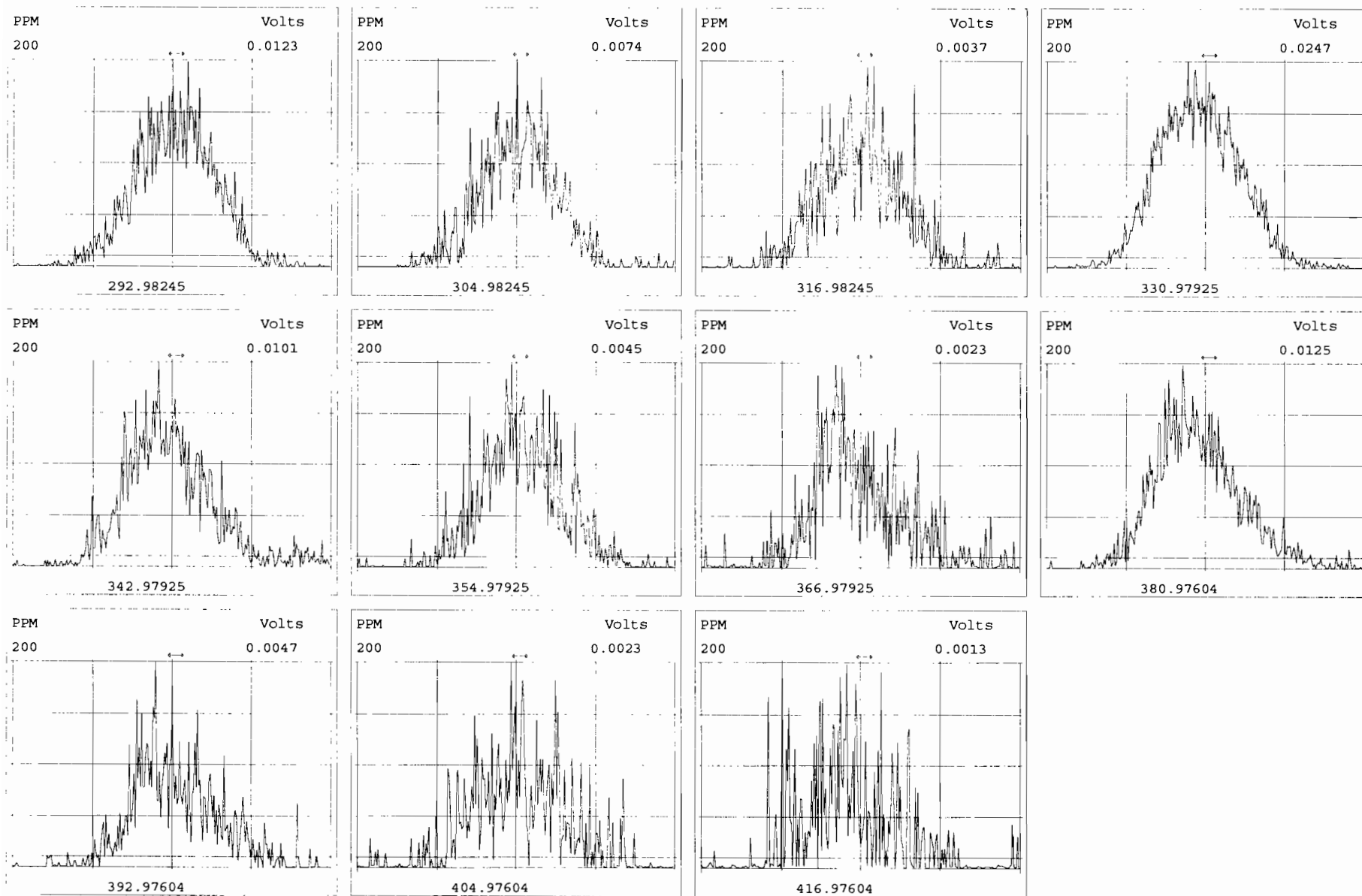


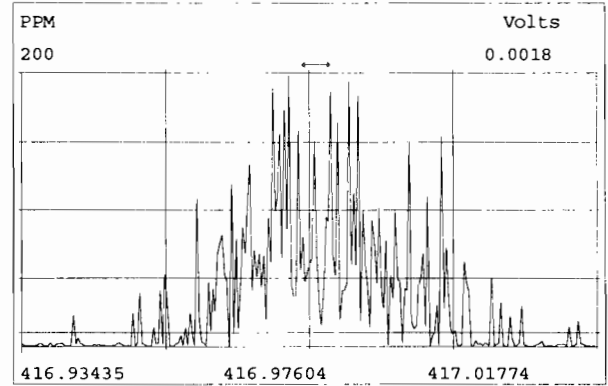
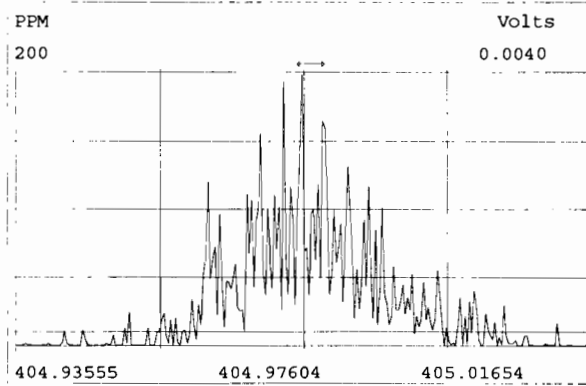
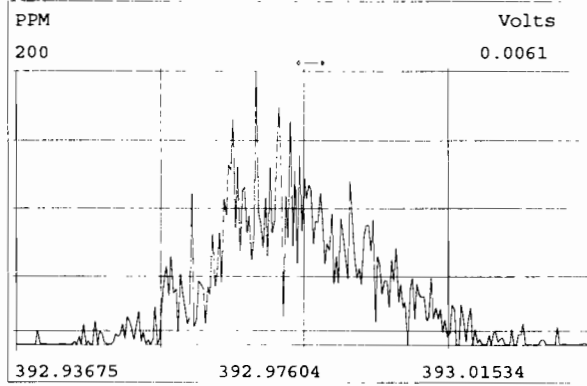
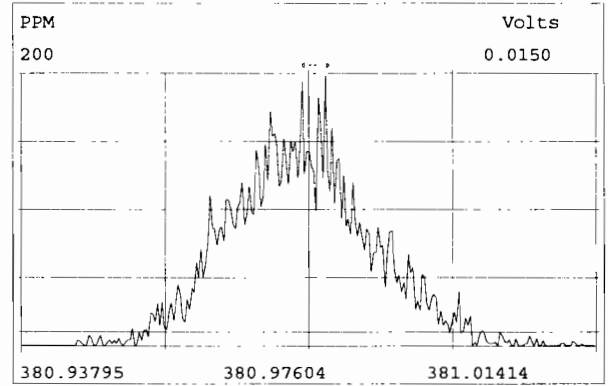
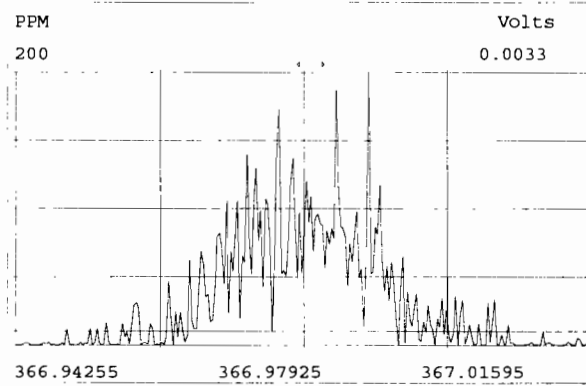
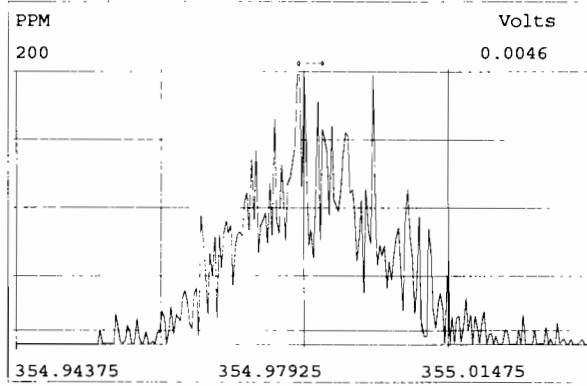
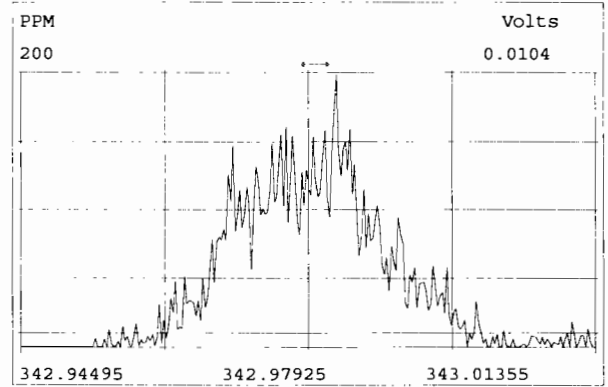
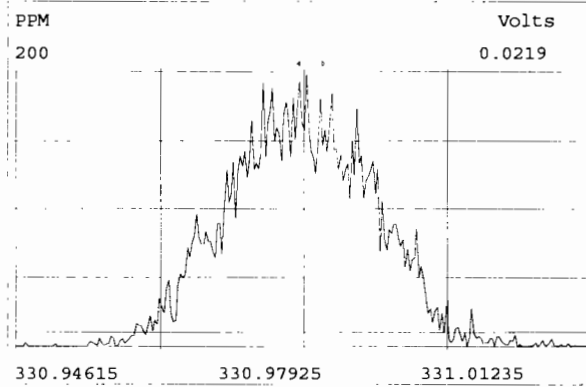
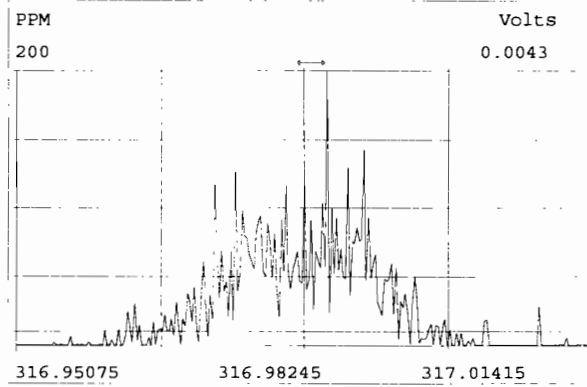
455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

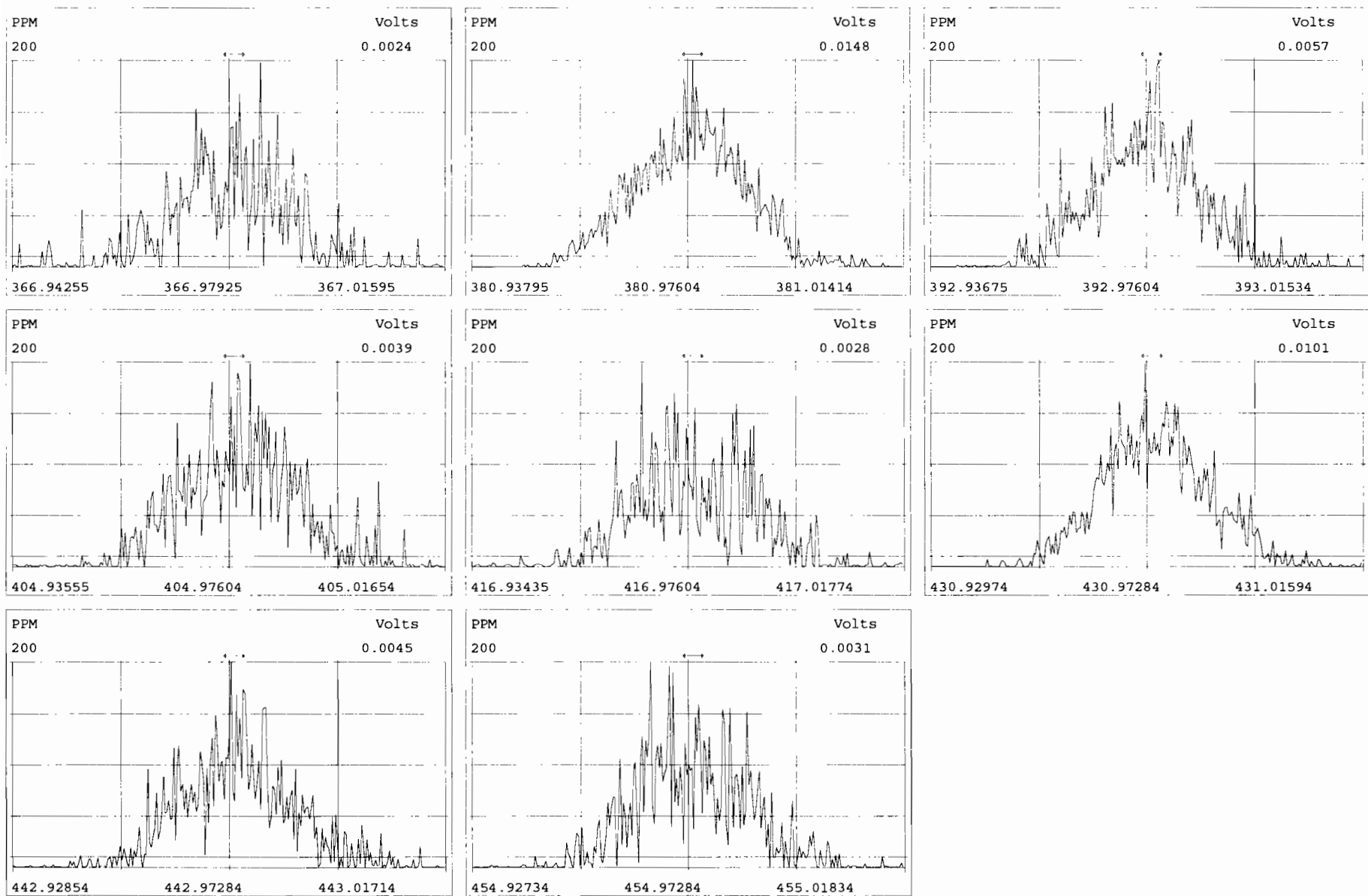






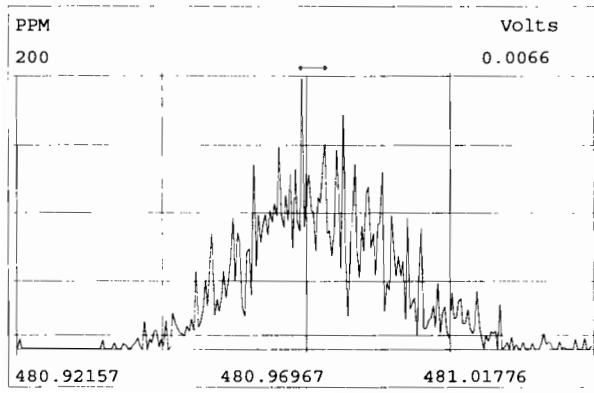
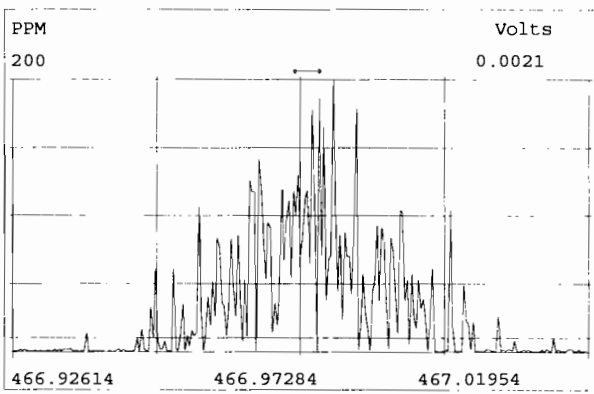
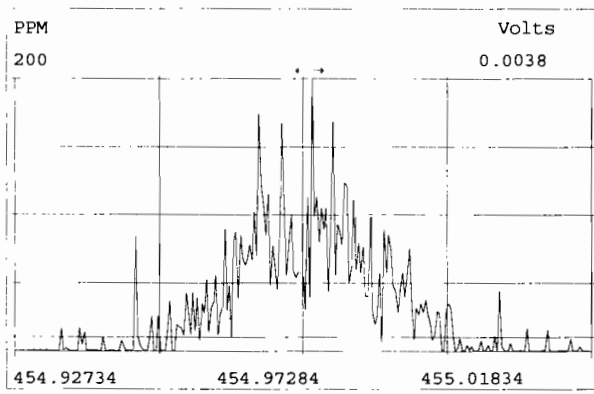
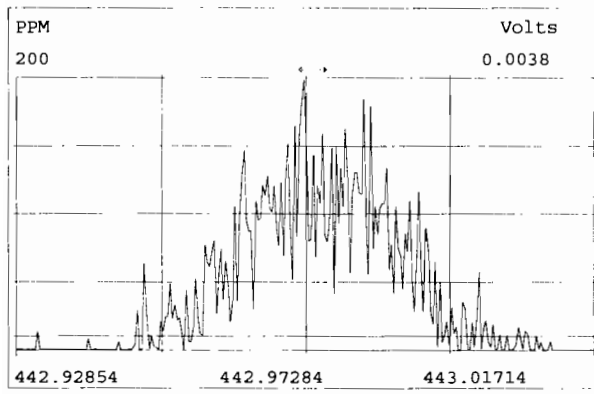
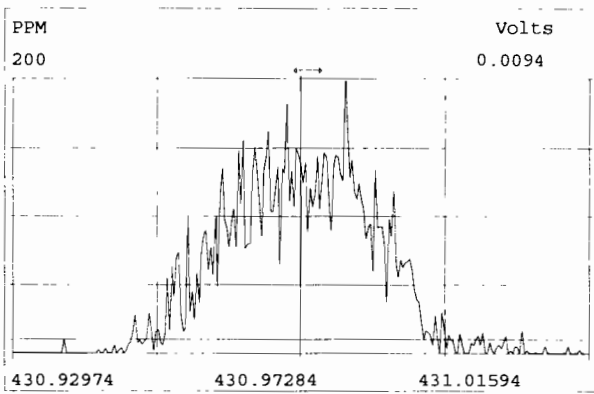
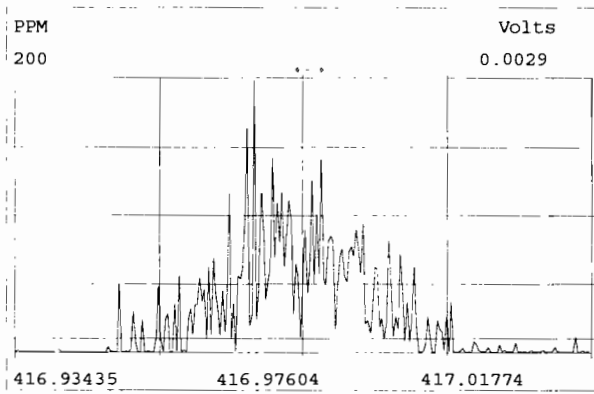
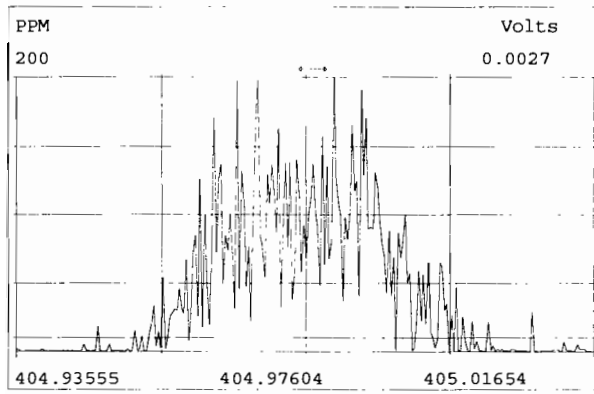
Peak Locate Examination: 5-DEC-2019:16:23 File:RES_CHECK

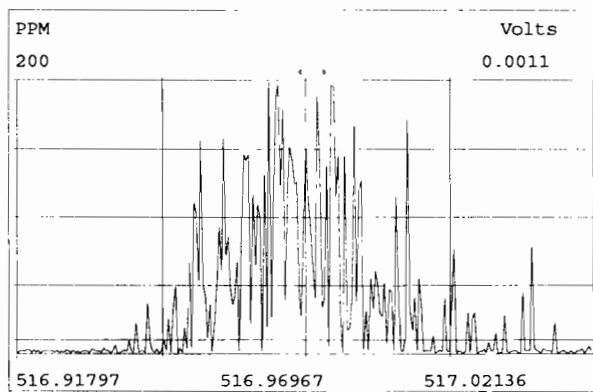
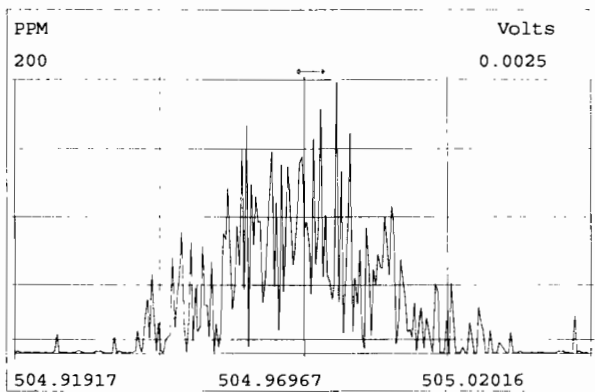
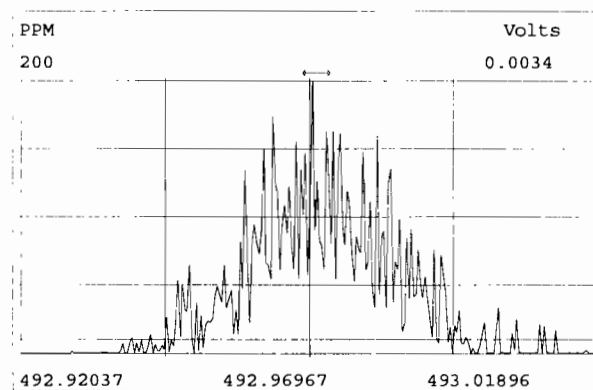
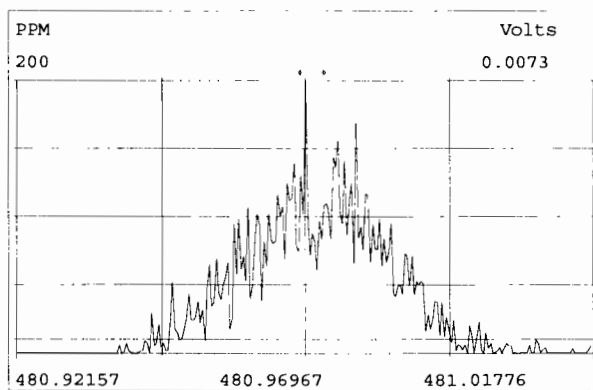
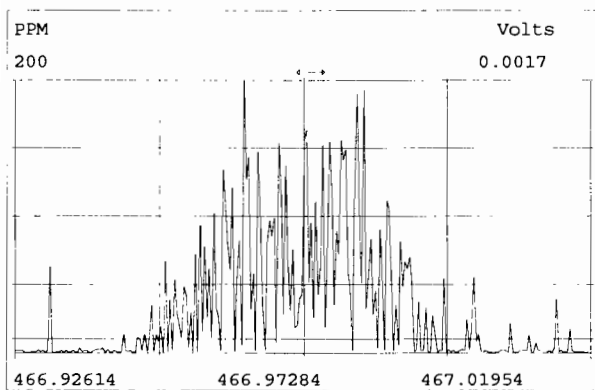
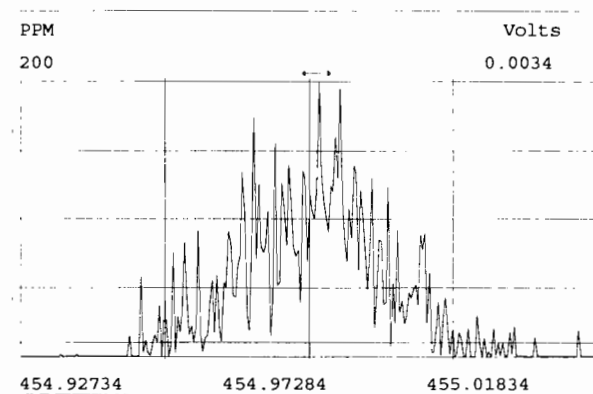
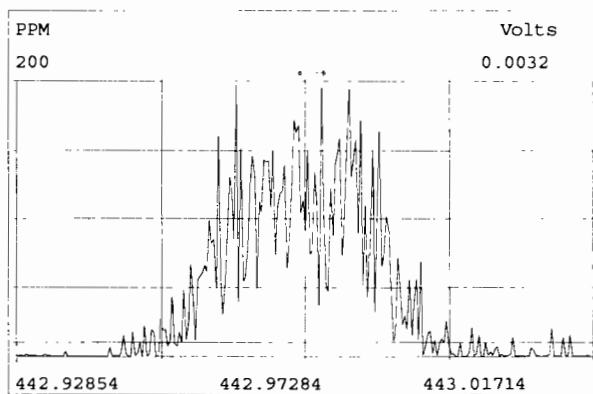
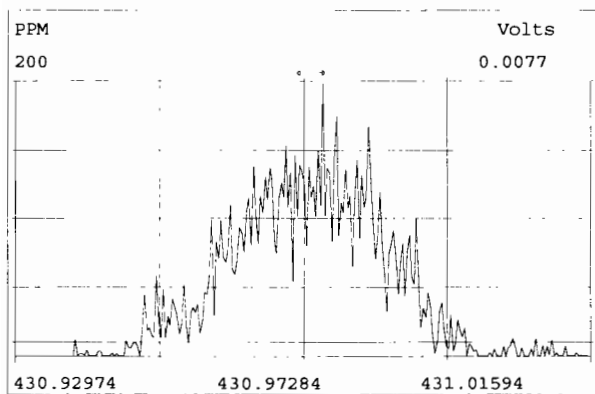
Experiment:OCDD_DB5 Function:3 Reference:PFK



Peak Locate Examination: 5-DEC-2019:16:23 File:RES_CHECK

Experiment:OCDD_DB5 Function:4 Reference:PFK





FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

CCAL ID: ST191211D2-1

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191211D2 S#1 Analysis Date: 12-DEC-19 Time: 00:21:22

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	0.76	0.65-0.89	y	10.4	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	52.9	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	47.0	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	51.2	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.22	1.05-1.43	y	50.2	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.00	0.88-1.20	y	48.7	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	97.4	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.29	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	48.3	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	48.9	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	45.0	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	45.2	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	46.4	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	45.1	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.02	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	43.2	43.0 - 58.0
OCDF	M+2/M+4	0.89	0.76-1.02	y	88.2	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: 12/12/19

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: 191211D2 S#1 Analysis Date: 12-DEC-19 Time: 00:21:22

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	0.78	0.65-0.89	y	103	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	104	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	106	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	87.7	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	95.9	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	97.5	72.0 - 138.0
13C-OCDD	M/M+2	0.91	0.76-1.02	y	236	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.80	0.65-0.89	y	102	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	118	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	116	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	111	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	100	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	96.8	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	99.6	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.43	0.37-0.51	y	90.3	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.42	0.37-0.51	y	103	77.0 - 129.0
13C-OCDF	M+2/M+4	0.87	0.76-1.02	y	235	96.0 - 415.0
CLEANUP STANDARD (3) 37C1-2,3,7,8-TCDD					9.84	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: 12/12/19

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: 191211D2 S#1 Analysis Date: 12-DEC-19 Time: 00:21:22

ZB-5MS IS Data Filename: 191211D2 S#1 Analysis Date: 12-DEC-19 Time: 00:21:22

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)	22:38	1,3,6,8-TCDF (F)	20:30
1,2,8,9-TCDD (L)	26:55	1,2,8,9-TCDF (L)	27:04
1,2,4,7,9-PeCDD (F)	28:33	1,3,4,6,8-PeCDF (F)	27:02
1,2,3,8,9-PeCDD (L)	30:57	1,2,3,8,9-PeCDF (L)	31:12
1,2,4,6,7,9-HxCDD (F)	32:22	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)	36:30
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: 12/12/19

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: 191211D2 S#1 Analysis Date: 12-DEC-19 Time: 00:21:22

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	1.001	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: 12/12/19

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: 191211D2 S#1 Analysis Date: 12-DEC-19 Time: 00:21:22

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	1.000	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	1.000	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	0.992	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	1.092	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: 12/12/19

Client ID: 1613 CS3 19C2204
Lab ID: ST191211D2-1

Filename: 191211D2 S:1 Acq:12-DEC-19 00:21:22
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

ConCal: ST191211D2-1
EndCAL: NA

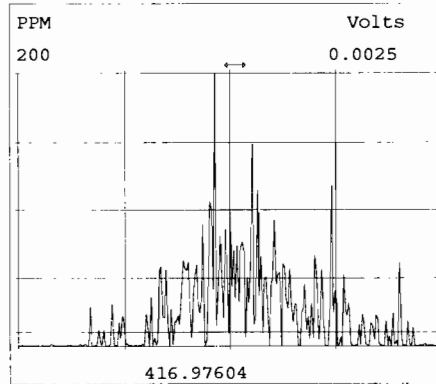
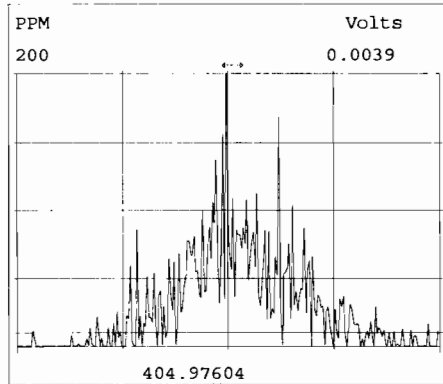
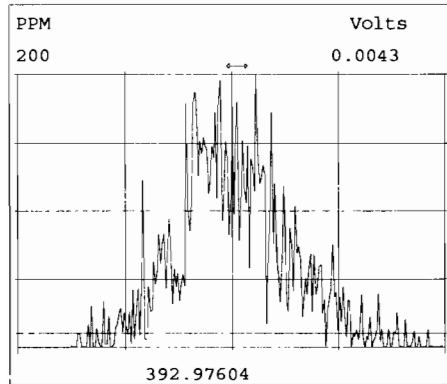
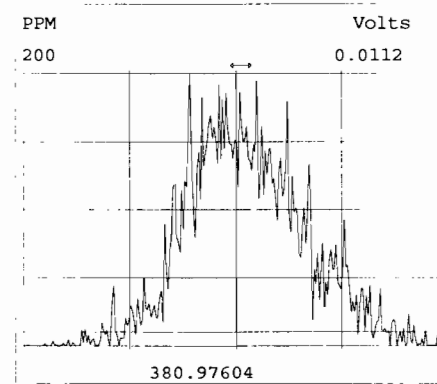
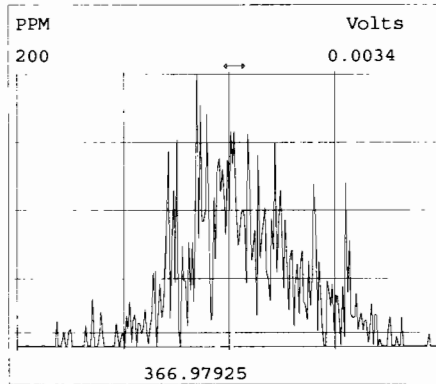
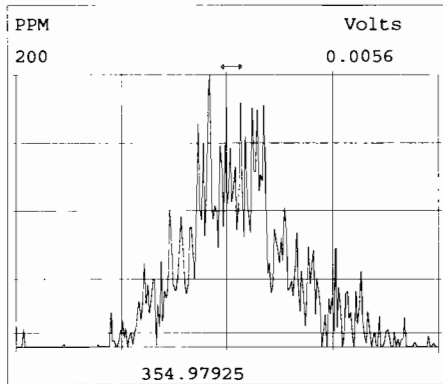
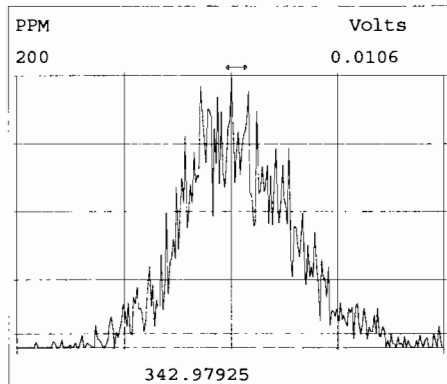
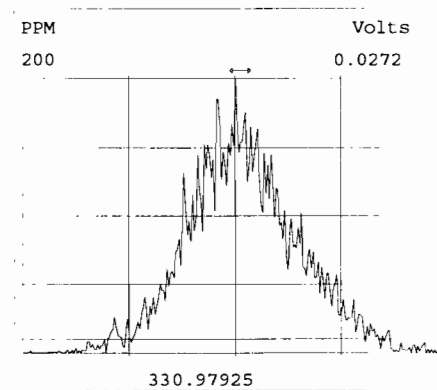
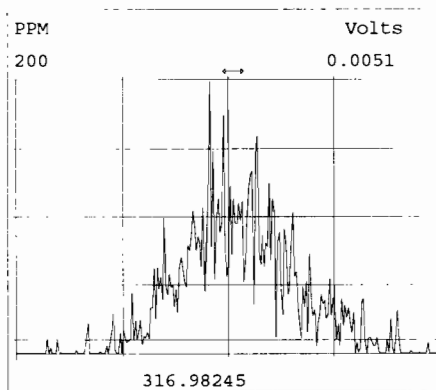
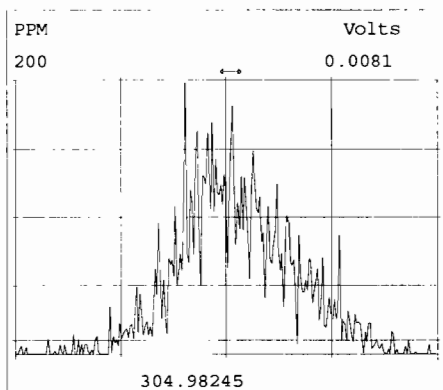
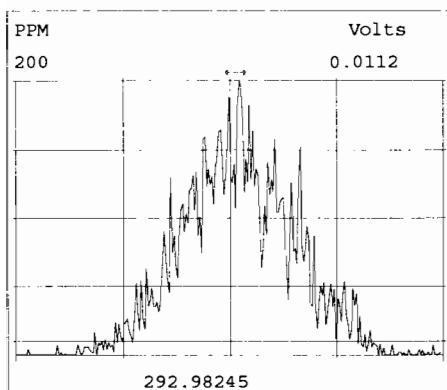
Page 1 of 1

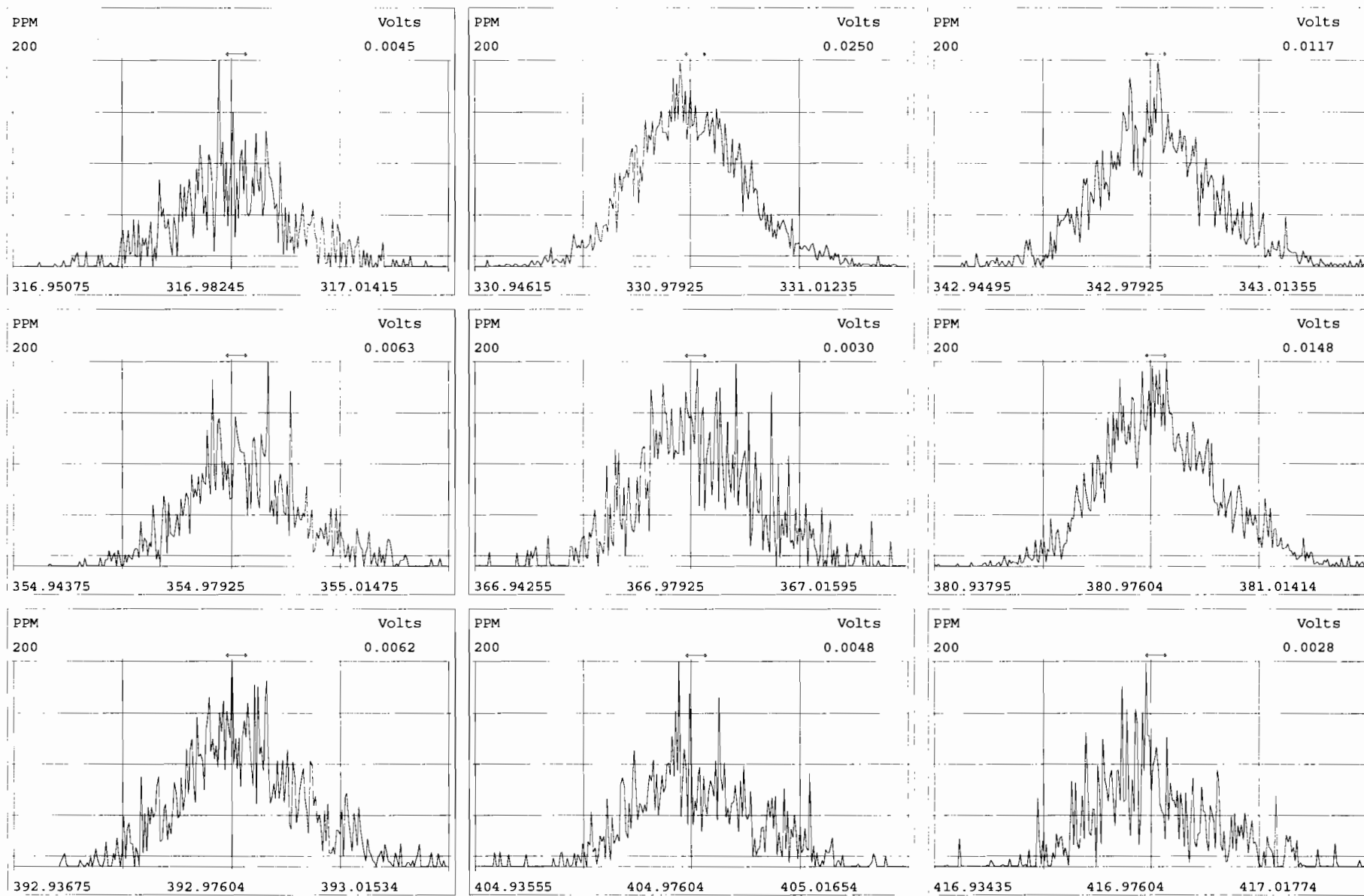
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	6.99e+05	0.76 y	0.91	26:04	10.439		* 2.5	*	*	Total Tetra-Dioxins	74.6	75.3	*	*	*
1,2,3,7,8-PeCDD	2.85e+06	0.63 y	0.90	30:36	52.853		* 2.5	*	*	Total Penta-Dioxins	207	208	*	*	*
1,2,3,4,7,8-HxCDD	2.63e+06	1.22 y	1.10	33:54	47.046		* 2.5	*	*	Total Hexa-Dioxins	217	219	*	*	*
1,2,3,6,7,8-HxCDD	2.70e+06	1.21 y	0.94	33:60	51.222		* 2.5	*	*	Total Hepta-Dioxins	112	113	*	*	*
1,2,3,7,8,9-HxCDD	2.79e+06	1.22 y	0.96	34:18	50.190		* 2.5	*	*	Total Tetra-Furans	35.9	36.6	*	*	*
1,2,3,4,6,7,8-HpCDD	2.27e+06	1.00 y	0.98	37:46	48.716		* 2.5	*	*	Total Penta-Furans	213.55	214.56	*	*	*
OCDD	4.77e+06	0.89 y	0.96	41:01	97.409		* 2.5	*	*	Total Hexa-Furans	239	240	*	*	*
										Total Hepta-Furans	88.7	90.0	*	*	*
2,3,7,8-TCDF	9.41e+05	0.76 y	0.95	25:17	9.2866		* 2.5	*	*						
1,2,3,7,8-PeCDF	4.73e+06	1.57 y	0.96	29:25	48.322		* 2.5	*	*						
2,3,4,7,8-PeCDF	4.95e+06	1.62 y	1.01	30:19	48.894		* 2.5	*	*						
1,2,3,4,7,8-HxCDF	3.65e+06	1.23 y	1.18	33:00	45.043		* 2.5	*	*						
1,2,3,6,7,8-HxCDF	3.76e+06	1.21 y	1.07	33:08	45.197		* 2.5	*	*						
2,3,4,6,7,8-HxCDF	3.57e+06	1.21 y	1.11	33:43	46.427		* 2.5	*	*						
1,2,3,7,8,9-HxCDF	2.95e+06	1.24 y	1.06	34:40	45.058		* 2.5	*	*						
1,2,3,4,6,7,8-HpCDF	2.60e+06	1.02 y	1.13	36:30	45.037		* 2.5	*	*						
1,2,3,4,7,8,9-HpCDF	2.48e+06	0.99 y	1.28	38:18	43.246		* 2.5	*	*						
OCDF	5.05e+06	0.89 y	0.95	41:14	88.166		* 2.5	*	*						
IS	13C-2,3,7,8-TCDD	7.39e+06	0.78 y	1.10	26:03	103.30				Rec			Qual		
IS	13C-1,2,3,7,8-PeCDD	5.98e+06	0.63 y	0.88	30:35	103.75				103					
IS	13C-1,2,3,4,7,8-HxCDD	5.07e+06	1.28 y	0.64	33:53	105.63				104					
IS	13C-1,2,3,6,7,8-HxCDD	5.61e+06	1.25 y	0.86	33:59	87.706				106					
IS	13C-1,2,3,7,8,9-HxCDD	5.79e+06	1.27 y	0.81	34:17	95.923				87.7					
IS	13C-1,2,3,4,6,7,8-HpCDD	4.77e+06	1.06 y	0.65	37:45	97.466				95.9					
IS	13C-OCDD	1.02e+07	0.91 y	0.58	40:60	235.64				97.5					
IS	13C-2,3,7,8-TCDF	1.07e+07	0.80 y	1.03	25:16	101.68				118					
IS	13C-1,2,3,7,8-PeCDF	1.02e+07	1.62 y	0.85	29:24	117.72				102					
IS	13C-2,3,4,7,8-PeCDF	9.98e+06	1.60 y	0.85	30:18	116.22				118					
IS	13C-1,2,3,4,7,8-HxCDF	6.89e+06	0.50 y	0.83	32:60	110.71				116					
IS	13C-1,2,3,6,7,8-HxCDF	7.77e+06	0.51 y	1.03	33:07	100.48				111					
IS	13C-2,3,4,6,7,8-HxCDF	6.90e+06	0.50 y	0.95	33:43	96.812				100					
IS	13C-1,2,3,7,8,9-HxCDF	6.17e+06	0.51 y	0.83	34:40	99.641				96.8					
IS	13C-1,2,3,4,6,7,8-HpCDF	5.11e+06	0.43 y	0.76	36:29	90.294				99.6					
IS	13C-1,2,3,4,7,8,9-HpCDF	4.48e+06	0.42 y	0.58	38:17	102.98				90.3					
IS	13C-OCDF	1.21e+07	0.87 y	0.69	41:13	234.68				103					
C/Up	37C1-2,3,7,8-TCDD	7.70e+05		1.20	26:03	9.8444				117					
RS/RT	13C-1,2,3,4-TCDD	6.53e+06	0.81 y	1.00	25:29	100.00				98.4					
RS	13C-1,2,3,4-TCDF	1.01e+07	0.79 y	1.00	24:02	100.00									
RS/RT	13C-1,2,3,4,6,9-HxCDF	7.48e+06	0.52 y	1.00	33:24	100.00									

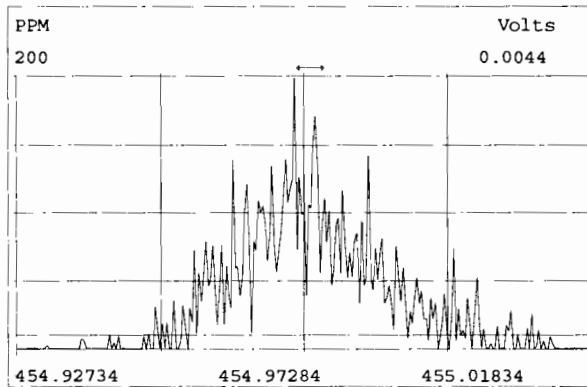
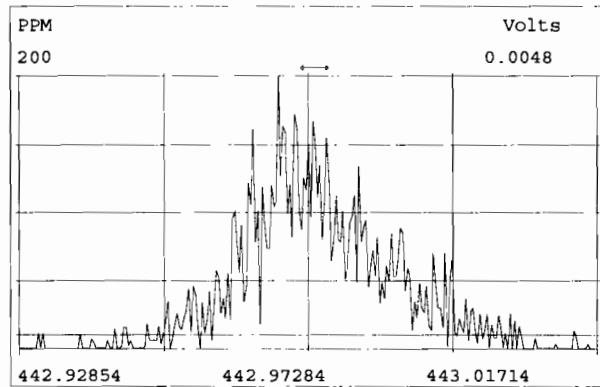
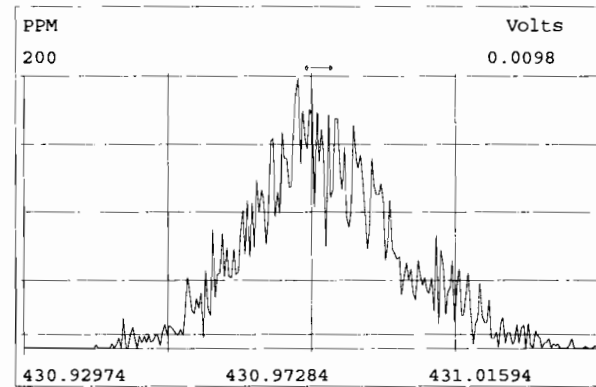
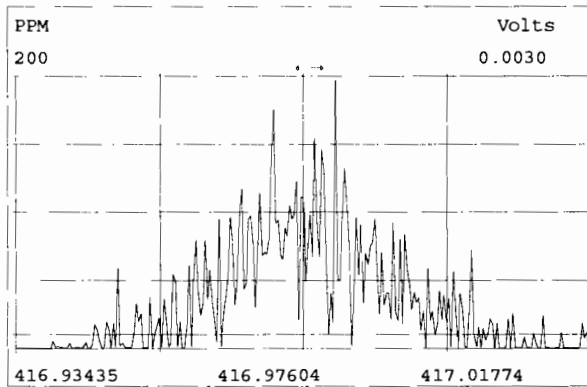
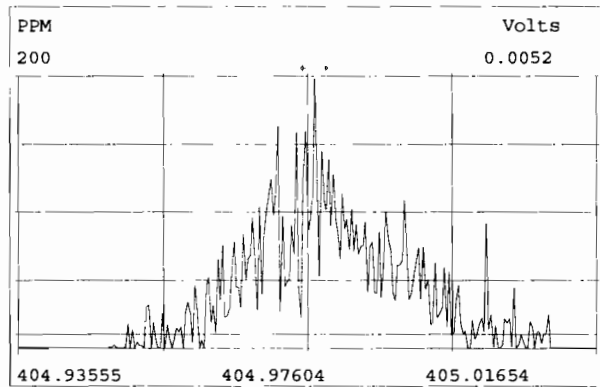
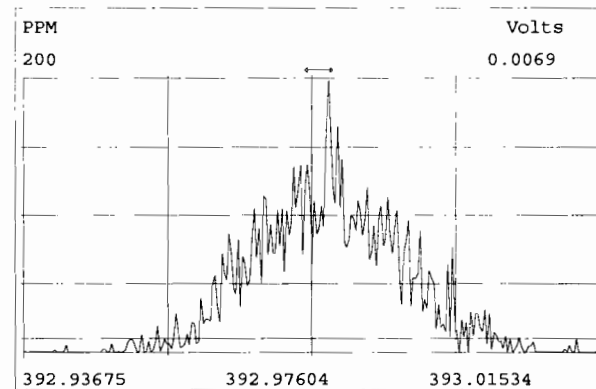
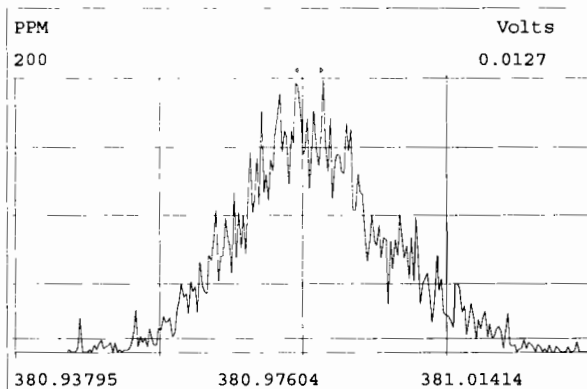
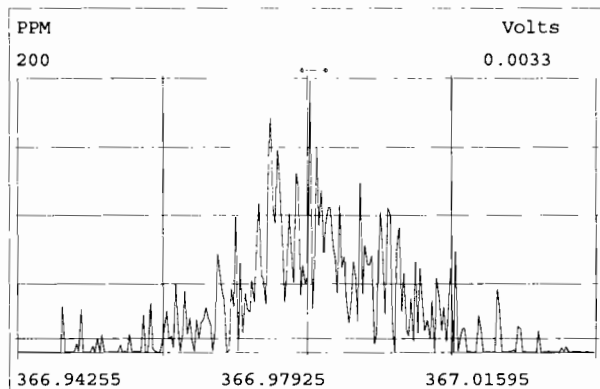
Integrations
by DB
Analyst: DB
Reviewed
by CT
Analyst: CT
Date: 12/12/19
Date: 12/12/19

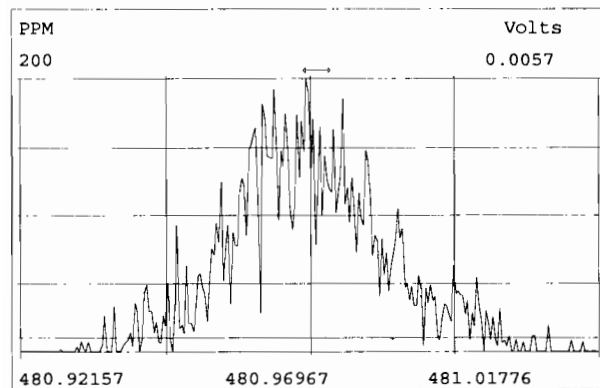
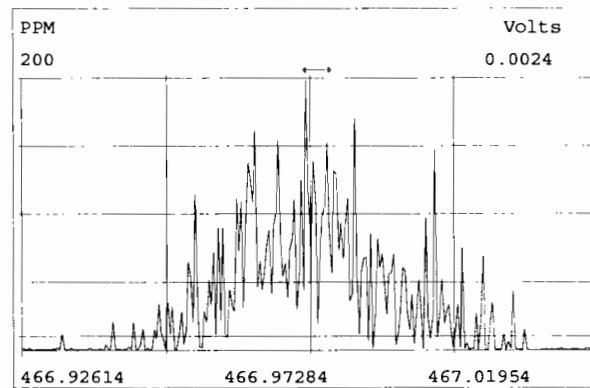
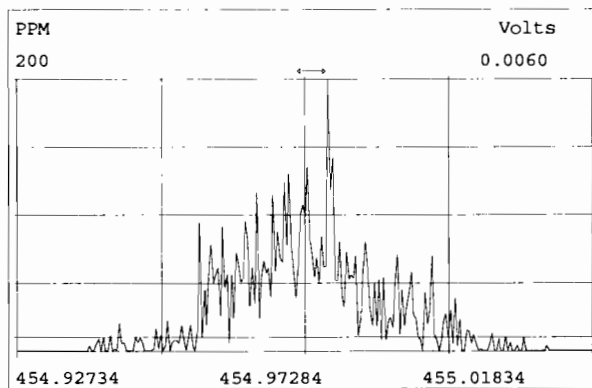
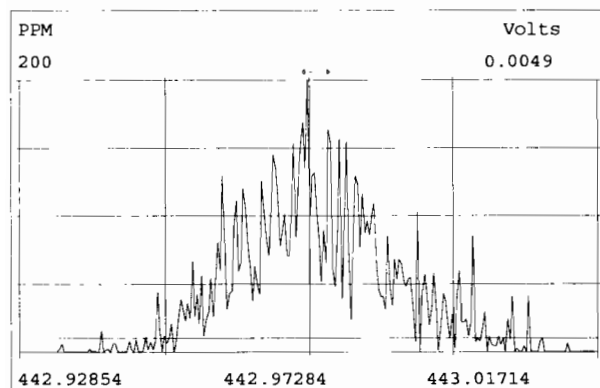
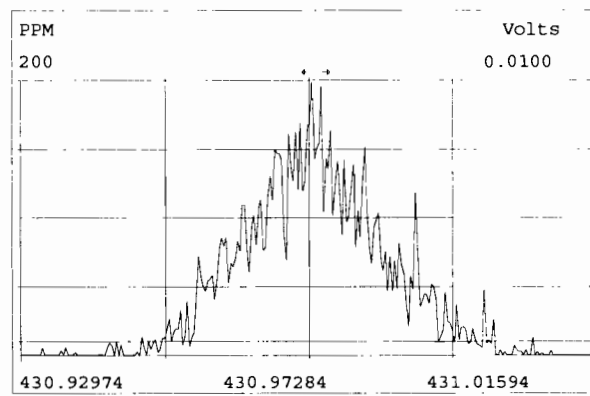
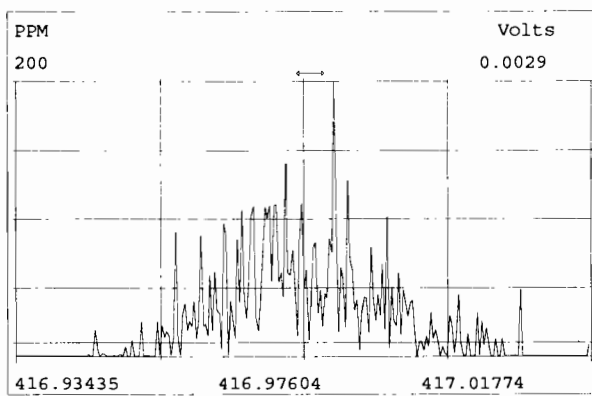
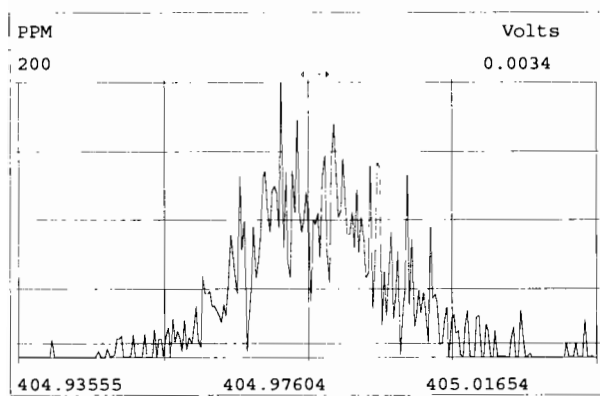
Vista Analytical Laboratory - Injection Log Run file: 191211D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

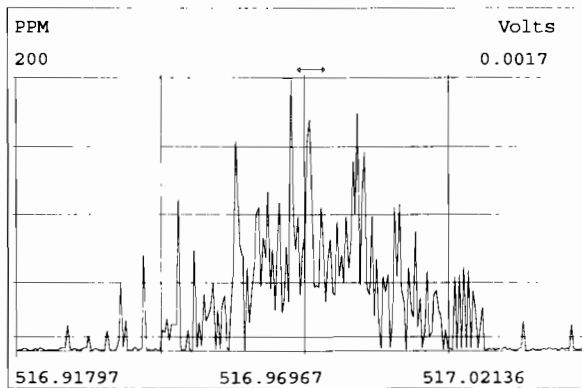
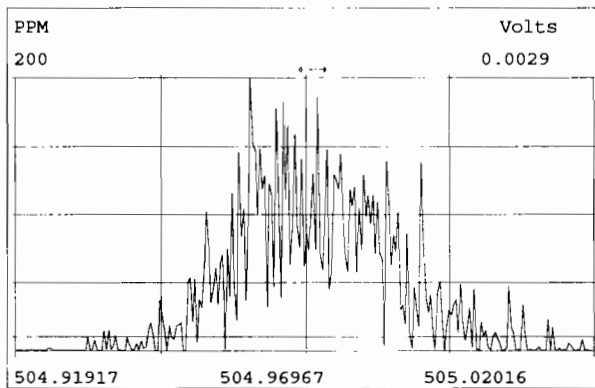
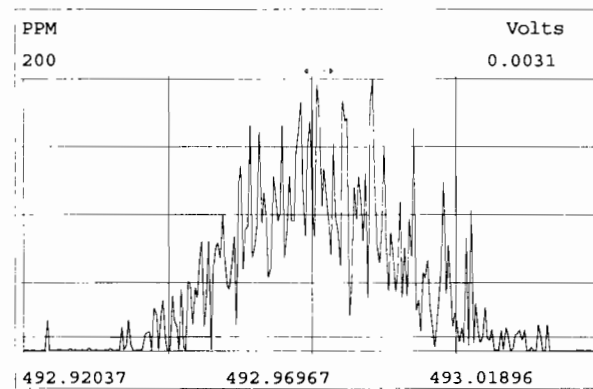
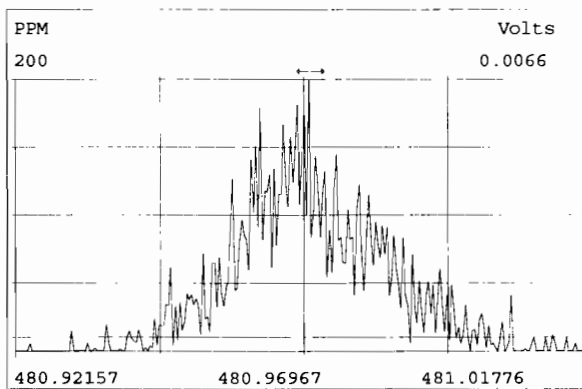
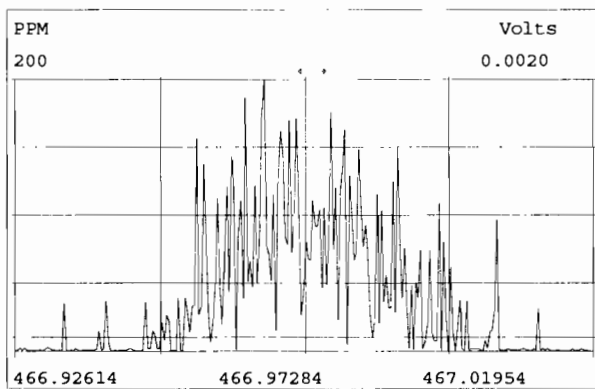
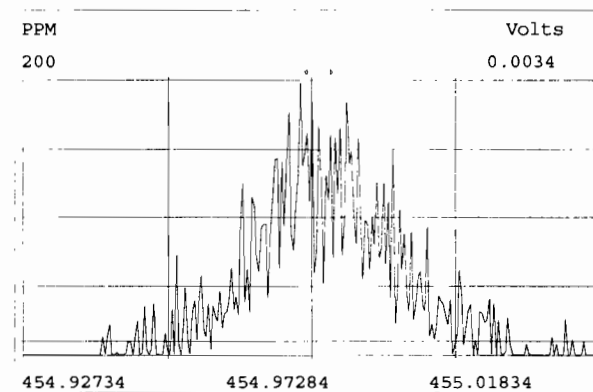
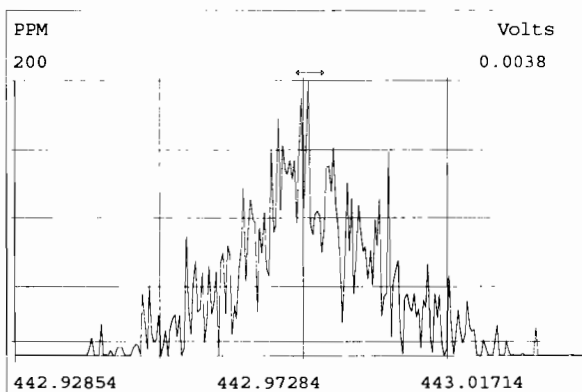
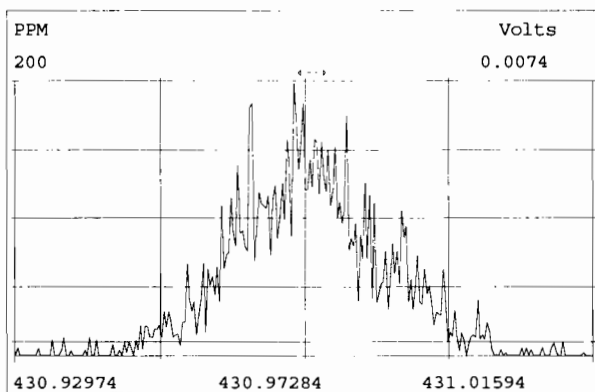
Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
191211D2	1	ST191211D2-1	DB	12-DEC-19	00:21:22	ST191211D2-1	NA
191211D2	2	B9L0050-BS1	DB	12-DEC-19	01:09:07	ST191211D2-1	NA
191211D2	3	B9K0223-BS1	DB	12-DEC-19	01:57:05	ST191211D2-1	NA
191211D2	4	SOLVENT BLANK	DB	12-DEC-19	02:44:55	ST191211D2-1	NA
191211D2	5	B9L0050-BLK1	DB	12-DEC-19	03:32:42	ST191211D2-1	NA
191211D2	6	B9K0223-BLK1	DB	12-DEC-19	04:20:39	ST191211D2-1	NA
191211D2	7	1904222-01	DB	12-DEC-19	05:08:35	ST191211D2-1	NA
191211D2	8	1904016-08@10X	DB	12-DEC-19	05:56:32	ST191211D2-1	NA
191211D2	9	1904047-03	DB	12-DEC-19	06:44:29	ST191211D2-1	NA
191211D2	10	1904047-04	DB	12-DEC-19	07:32:24	ST191211D2-1	NA
191211D2	11	1904047-01	DB	12-DEC-19	08:20:20	ST191211D2-1	NA
191211D2	12	1904047-02	DB	12-DEC-19	09:08:16	ST191211D2-1	NA



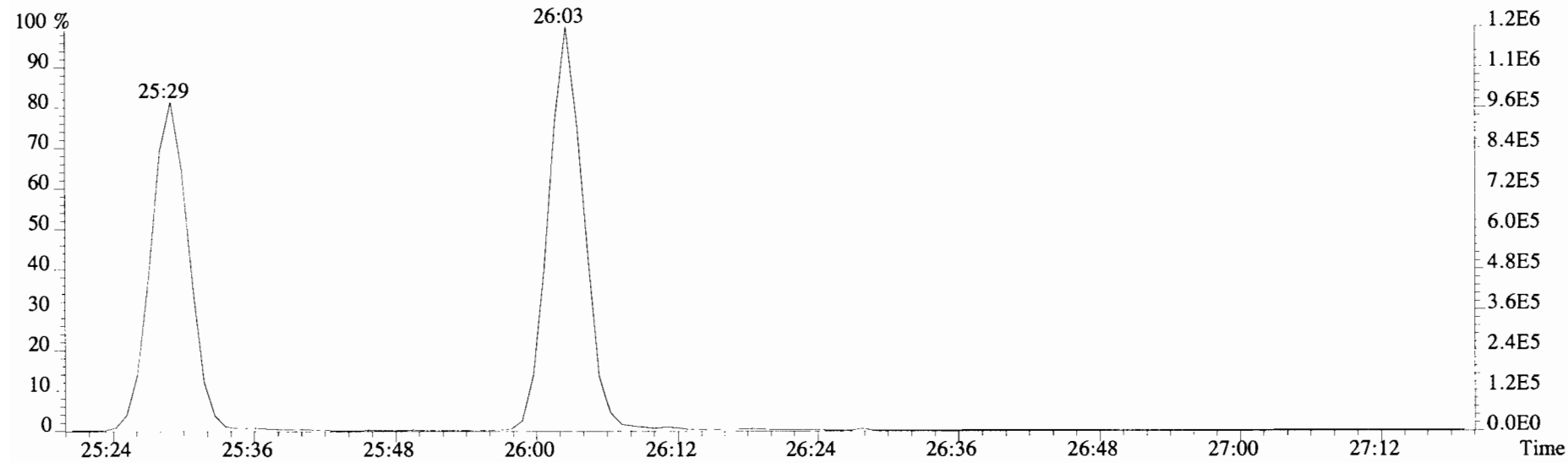
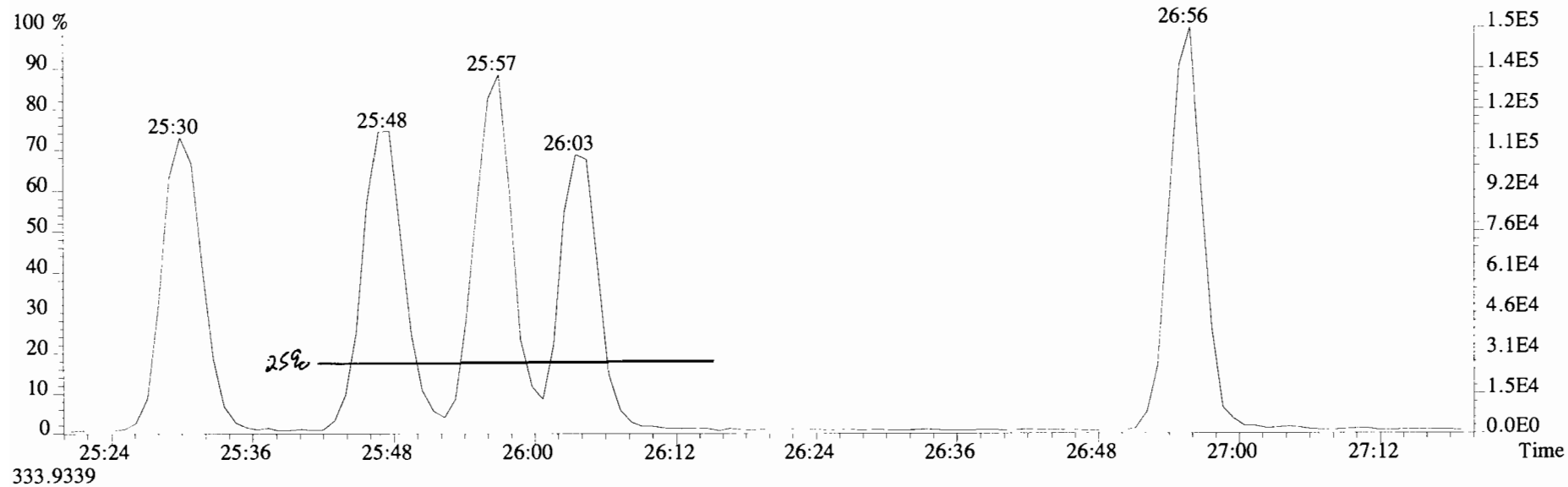




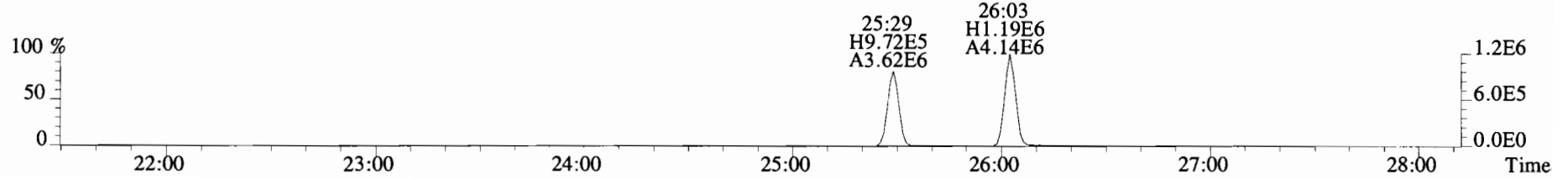
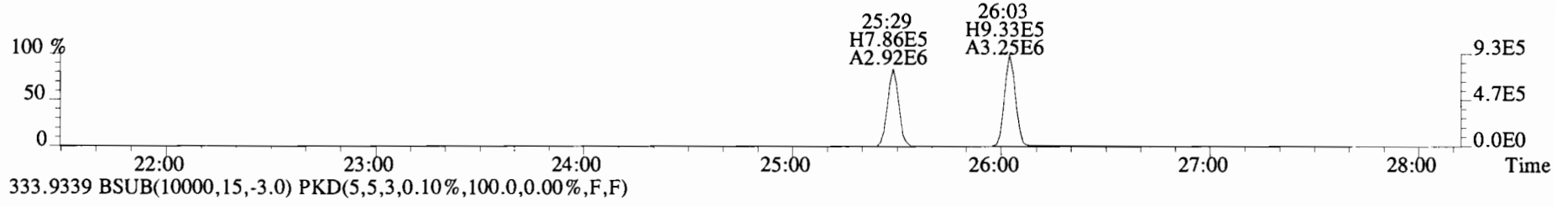
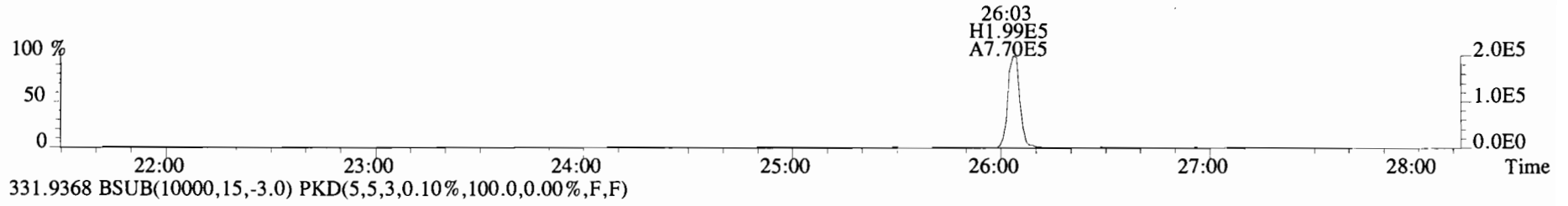
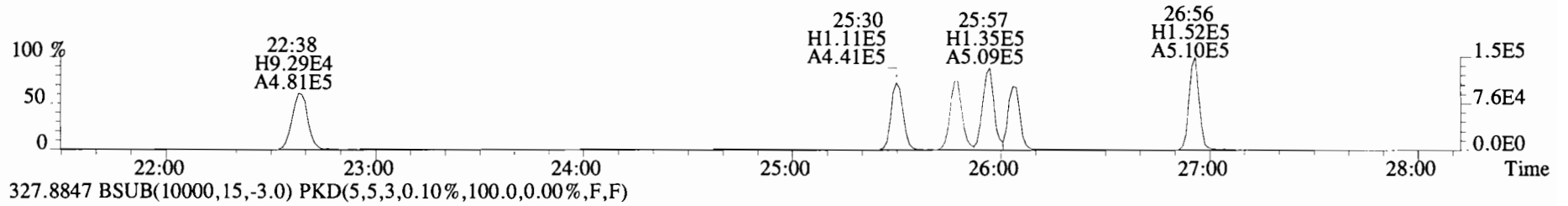
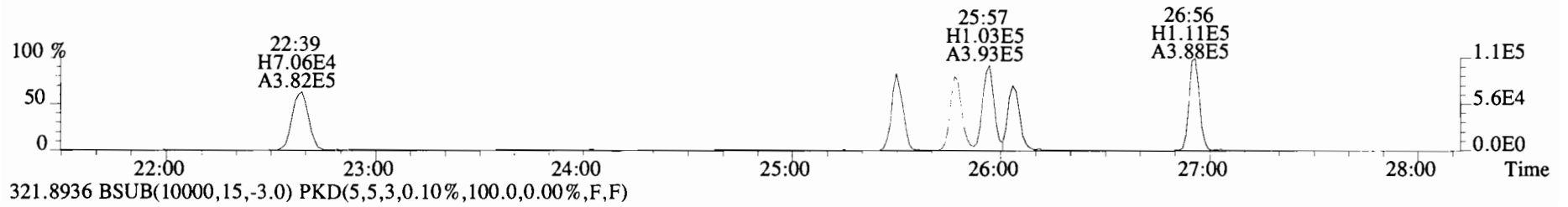




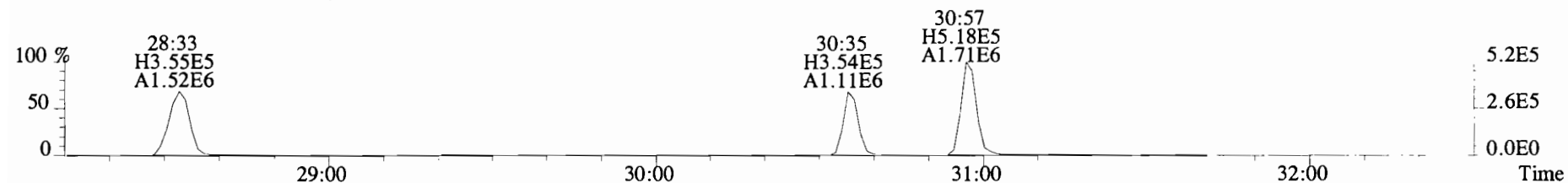
File:191211D2 #1-493 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
321.8936



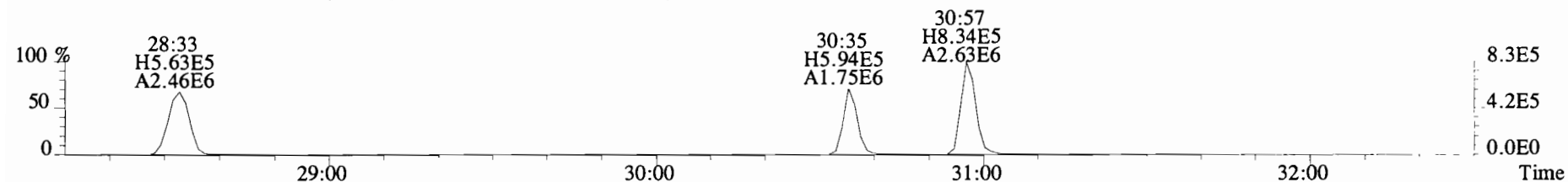
File:191211D2 #1-493 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical_Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



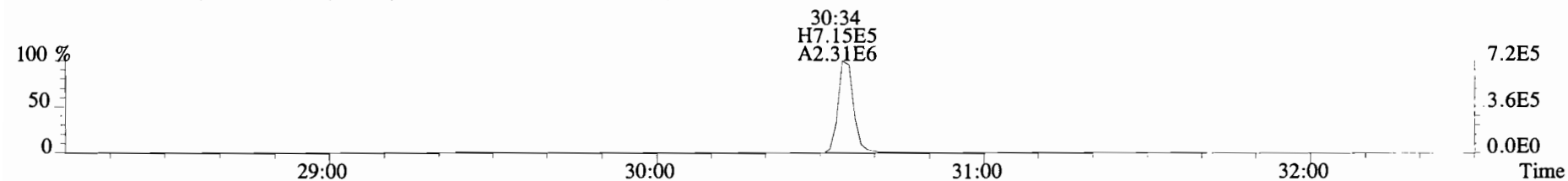
File:191211D2 #1-211 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



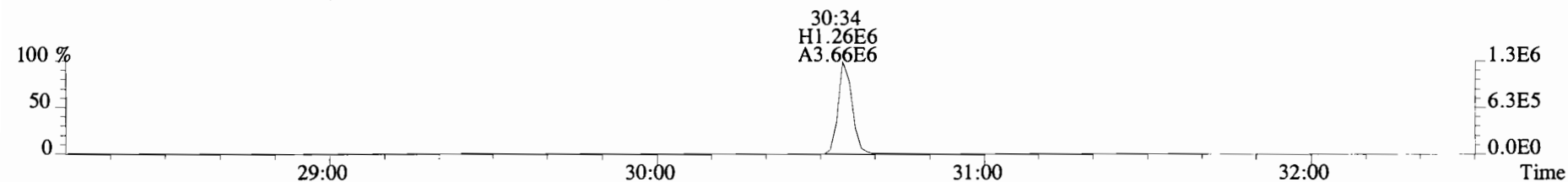
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



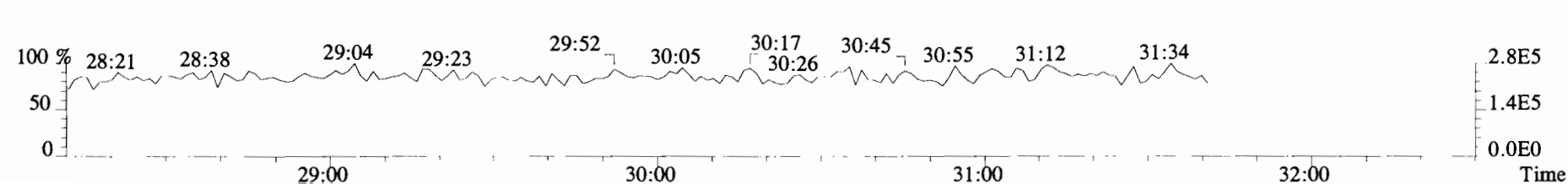
365.8978 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



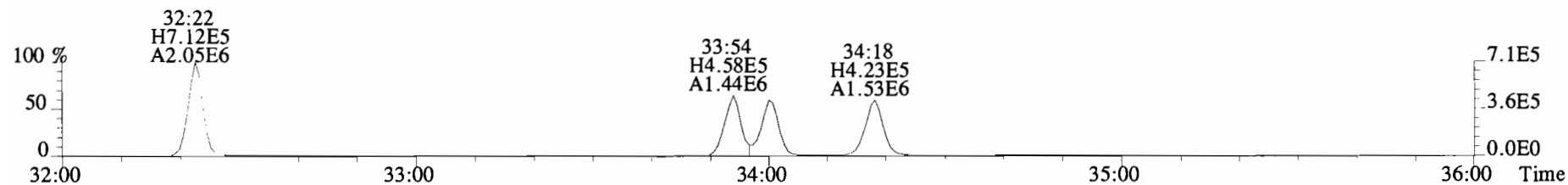
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



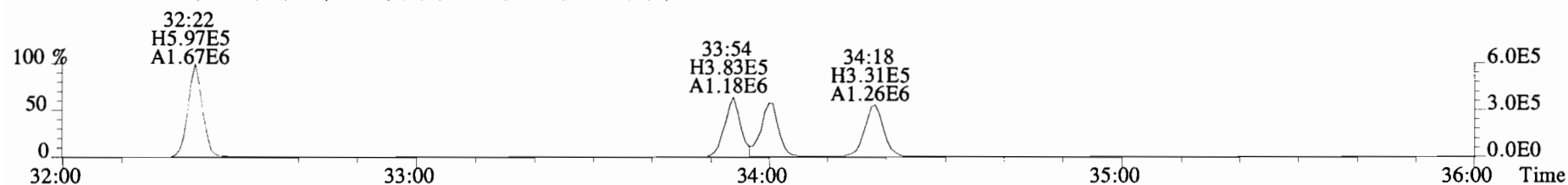
366.9792 F:2



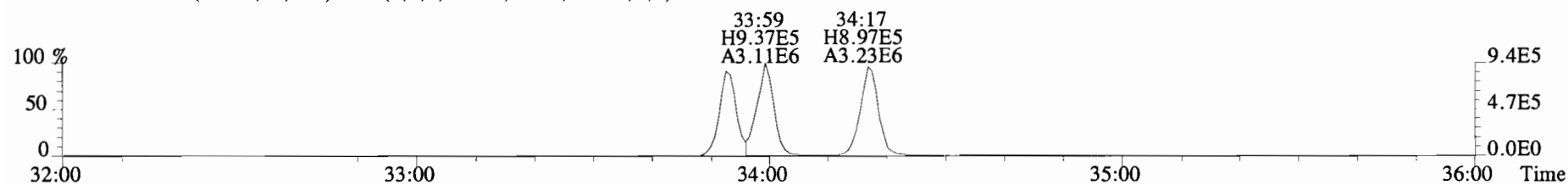
File:191211D2 #1-384 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



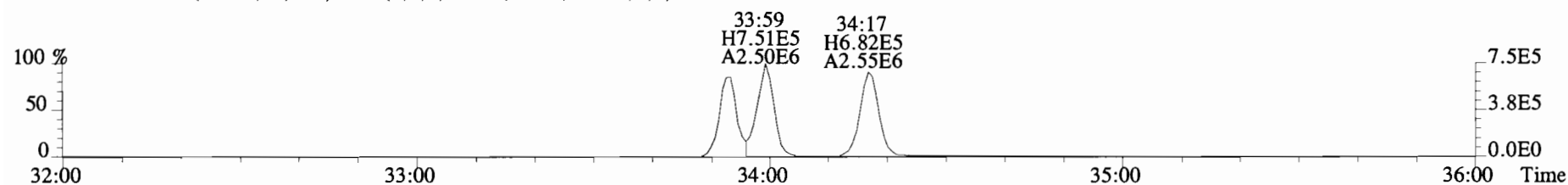
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



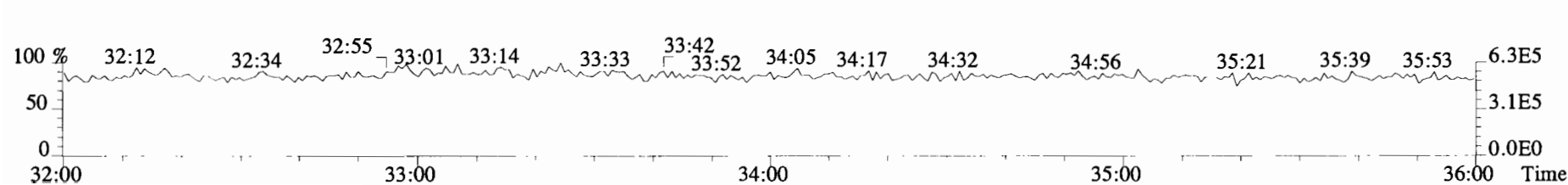
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



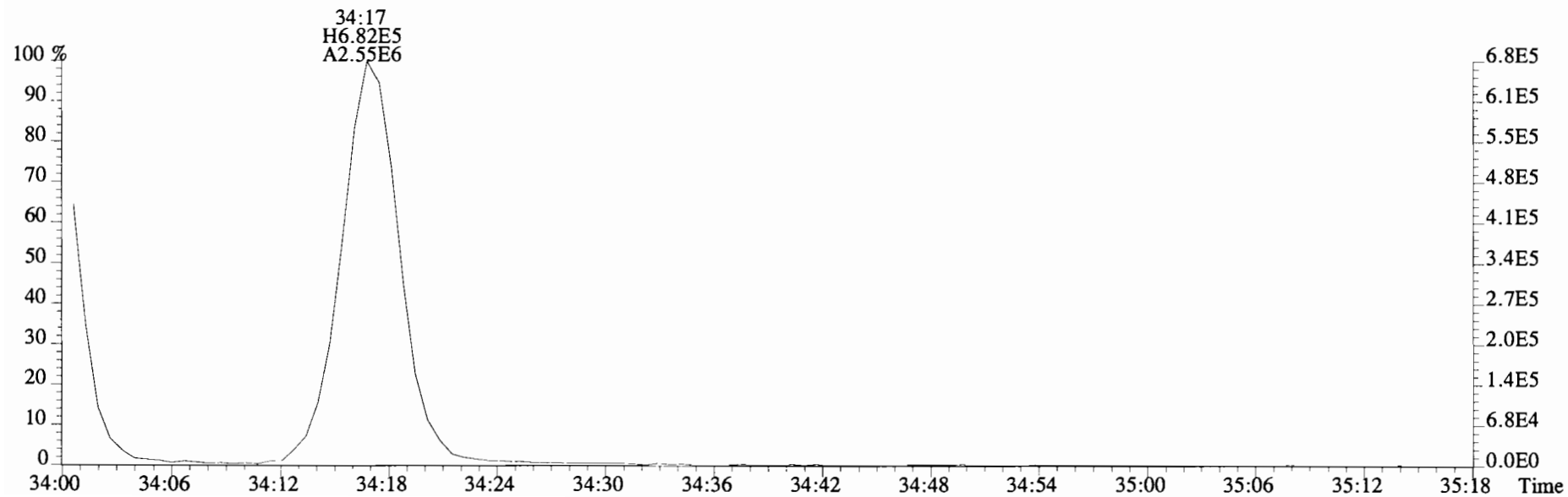
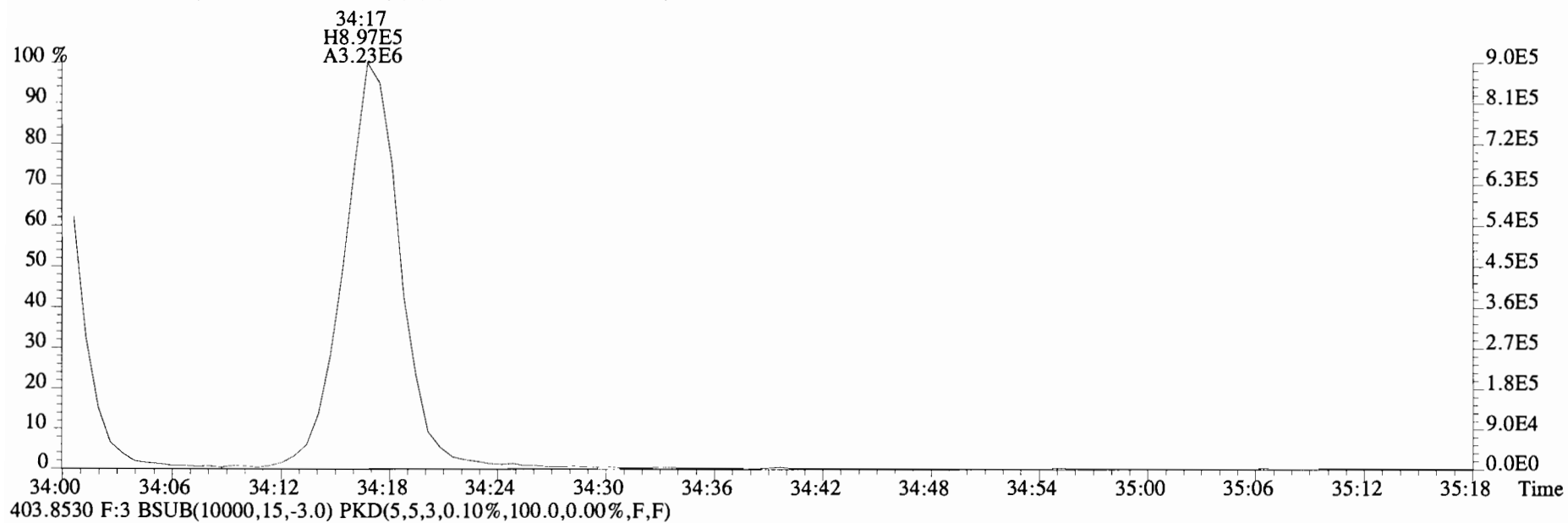
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



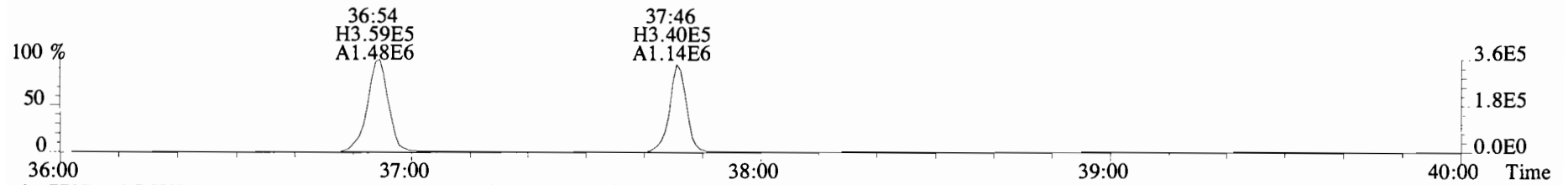
392.9760 F:3



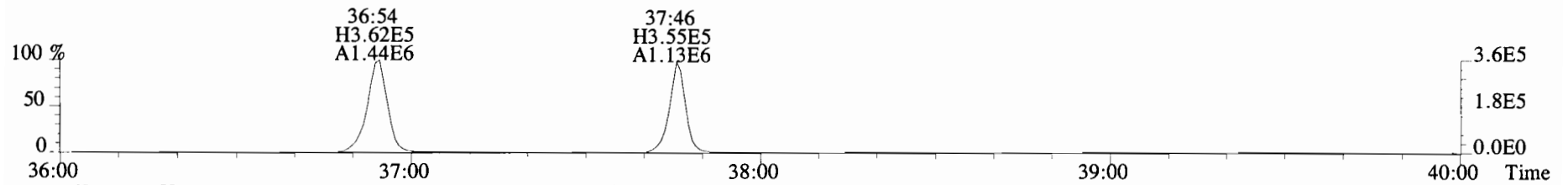
File:191211D2 #1-384 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



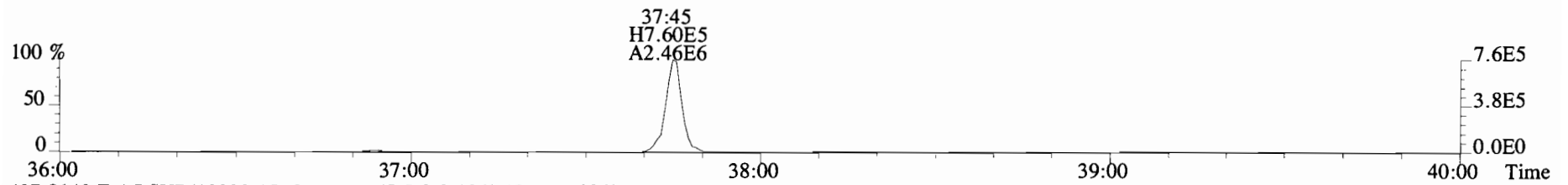
File:191211D2 #1-355 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



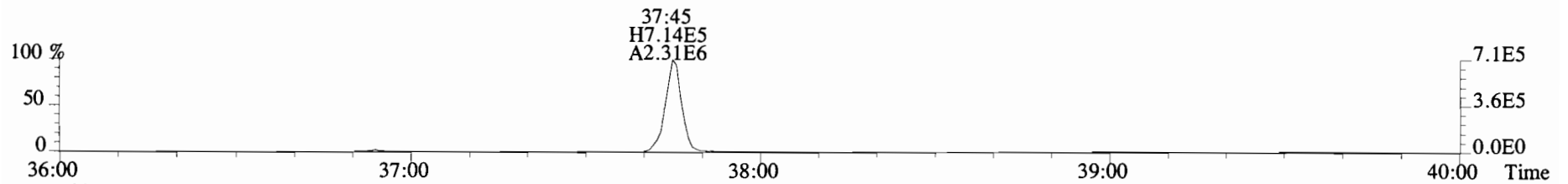
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



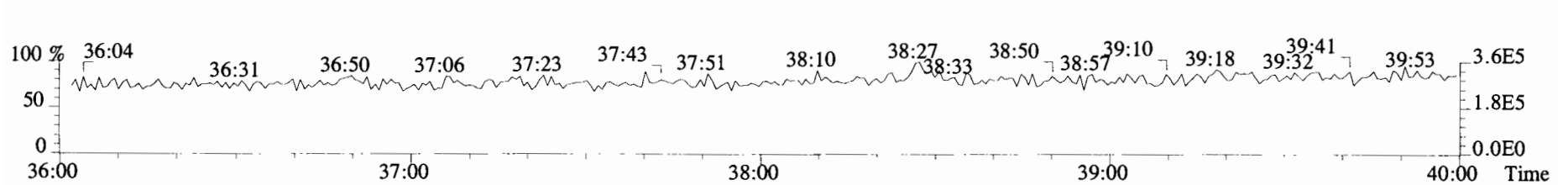
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



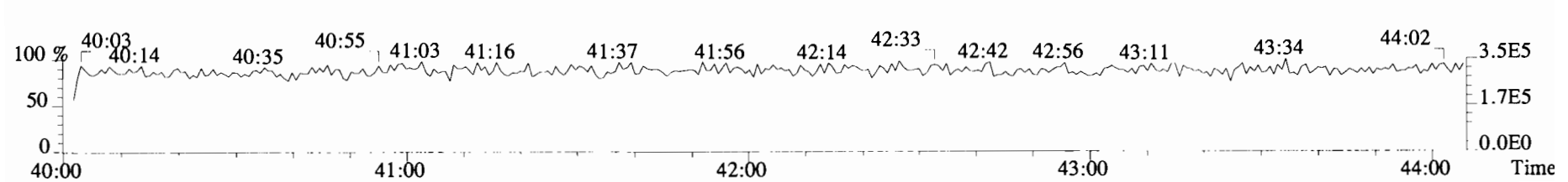
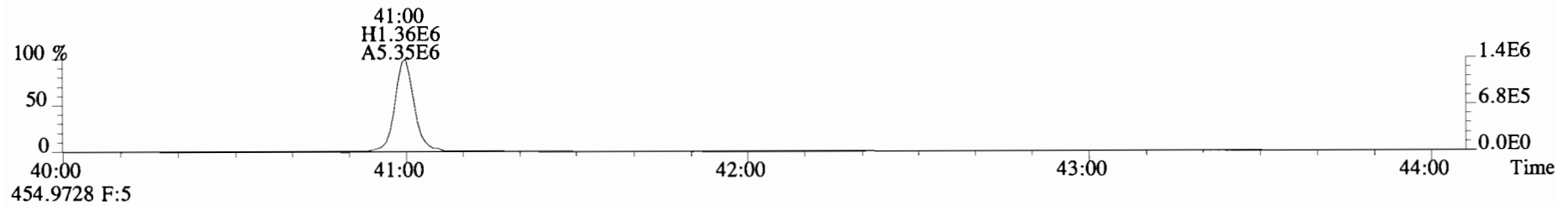
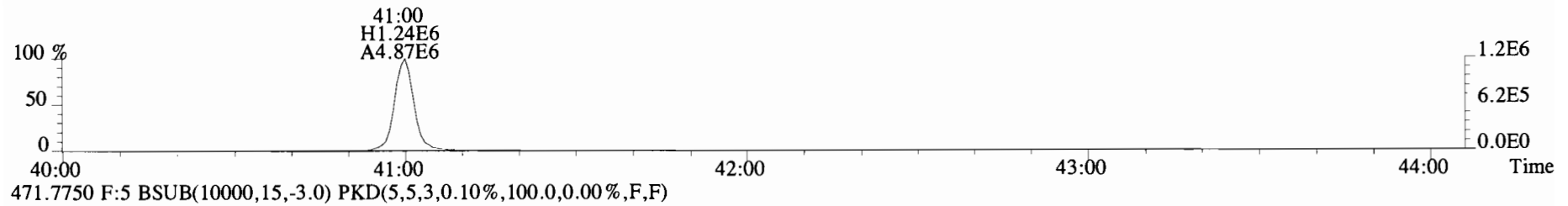
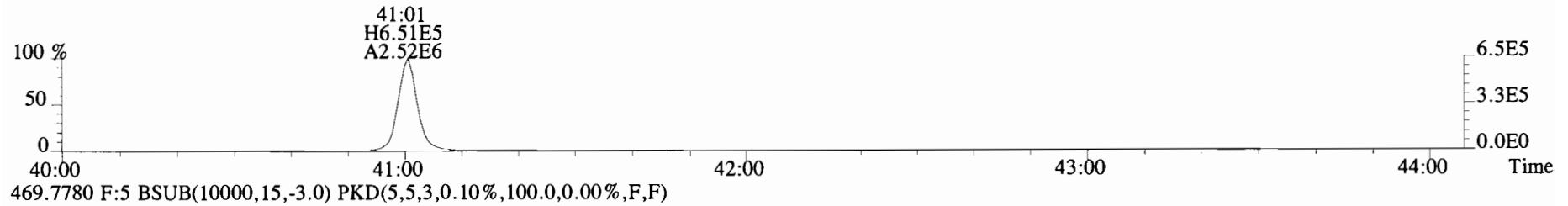
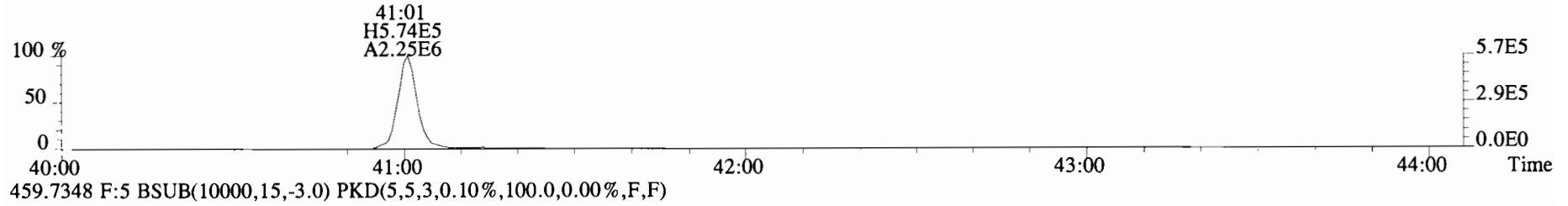
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



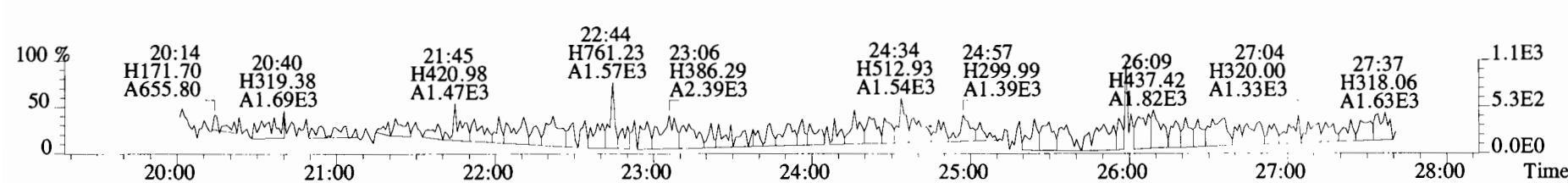
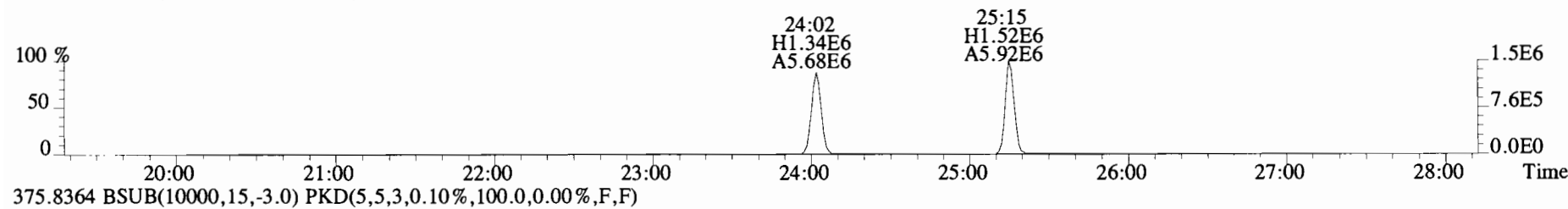
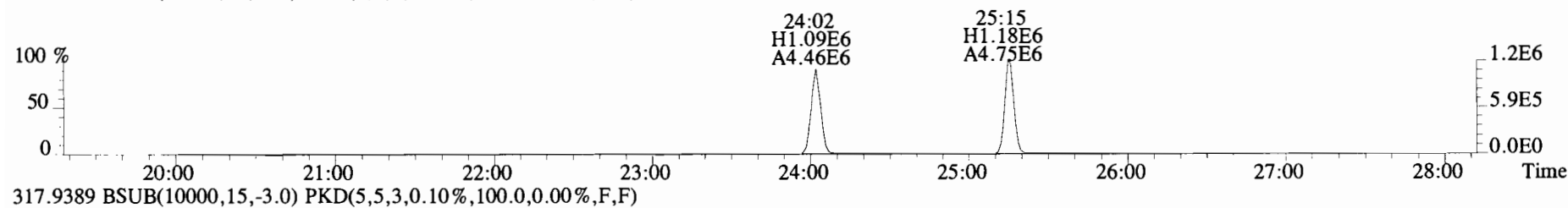
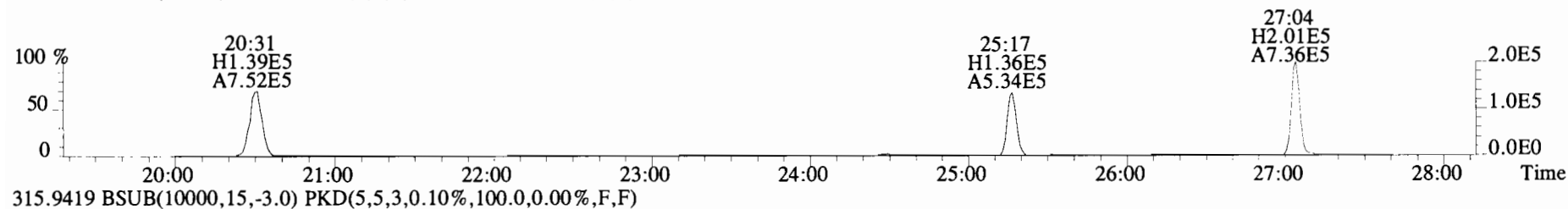
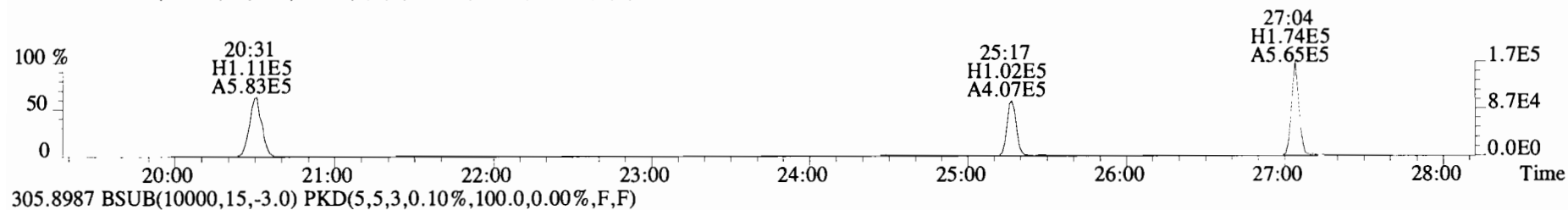
454.9728 F:4



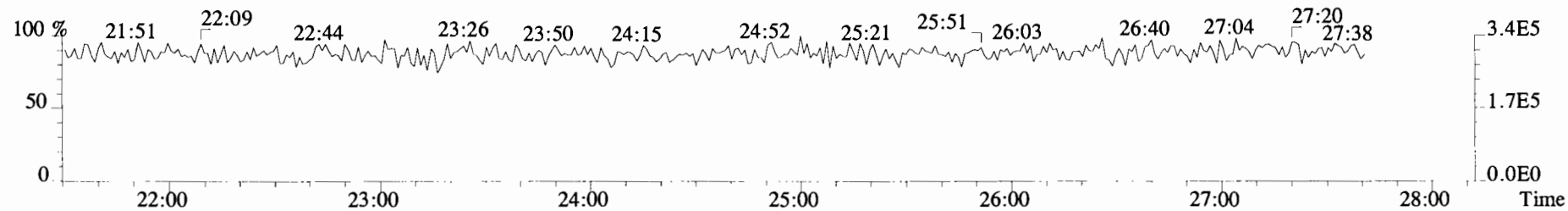
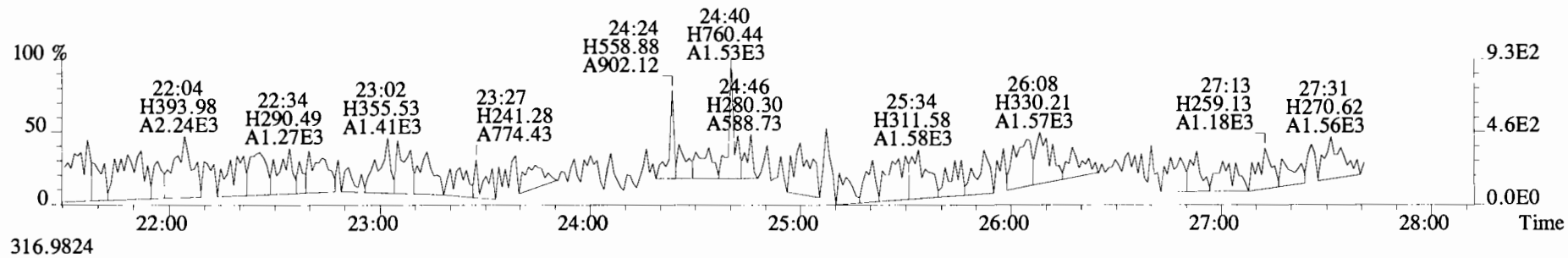
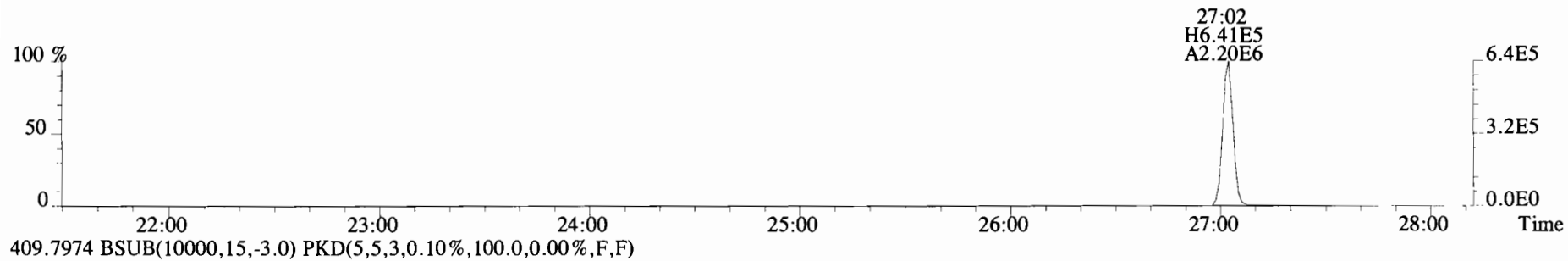
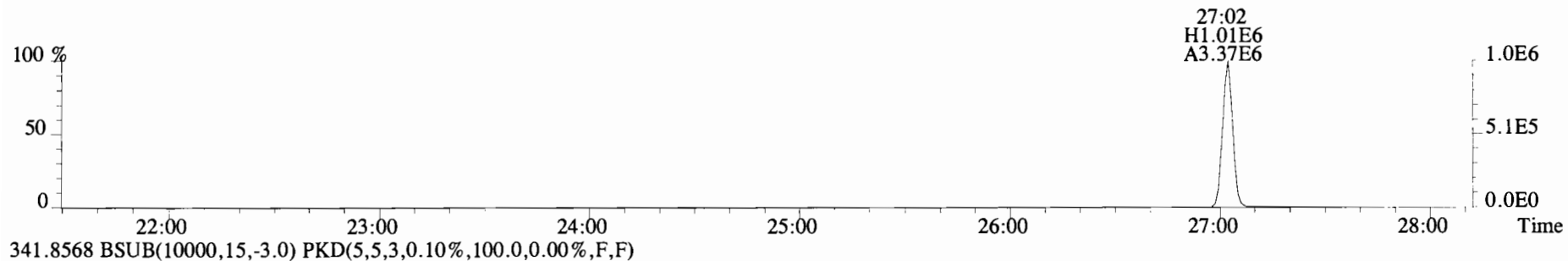
File:191211D2 #1-432 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



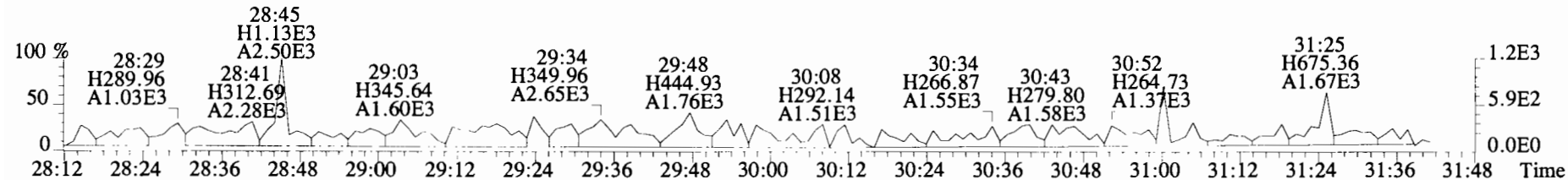
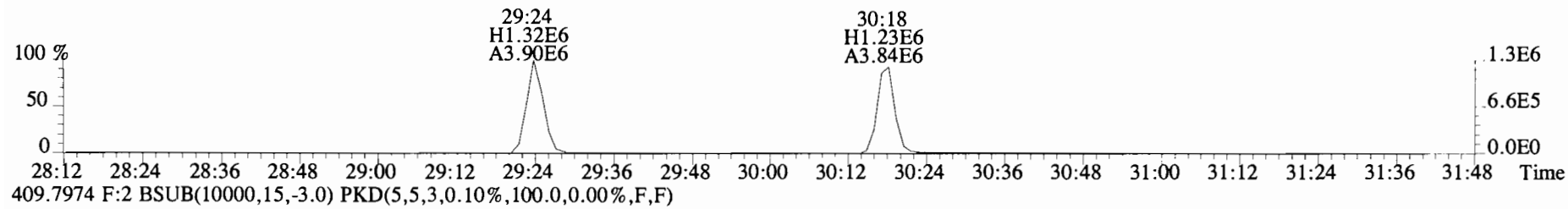
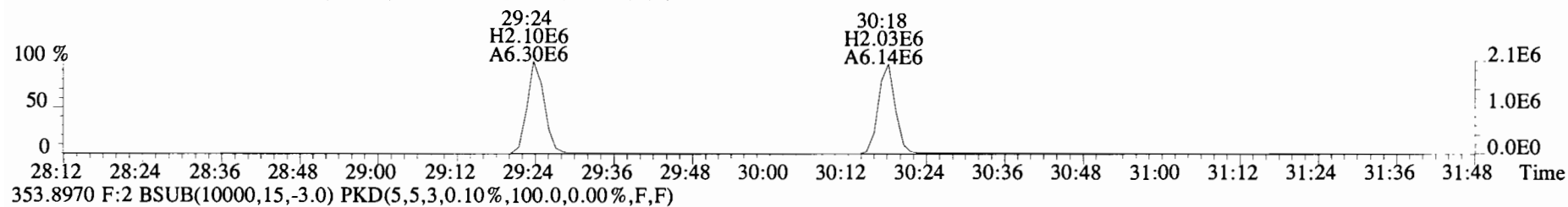
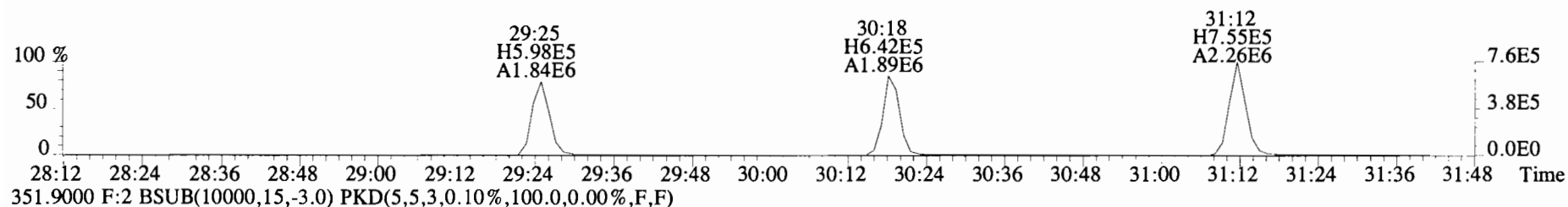
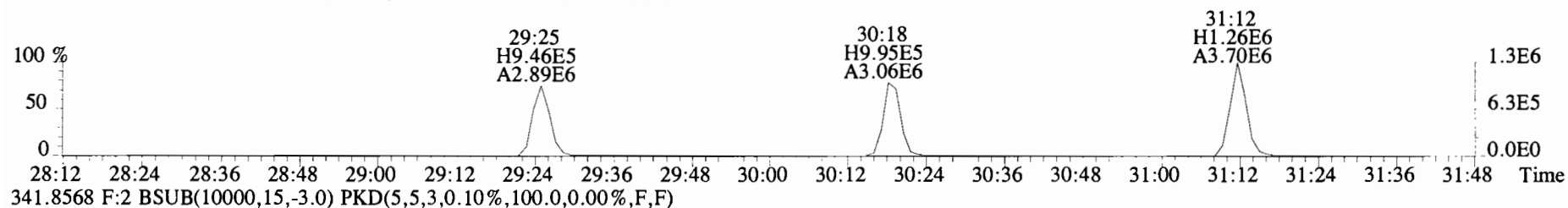
File:191211D2 #1-493 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



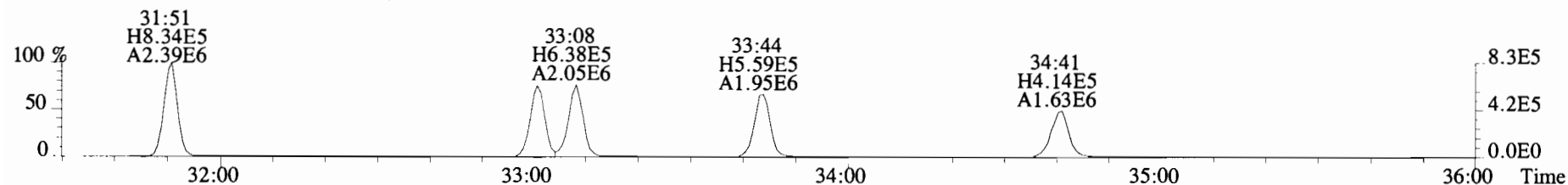
File:191211D2 #1-493 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



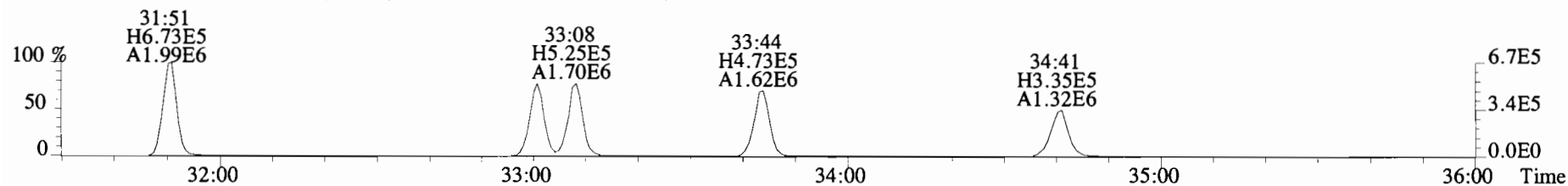
File:191211D2 #1-211 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



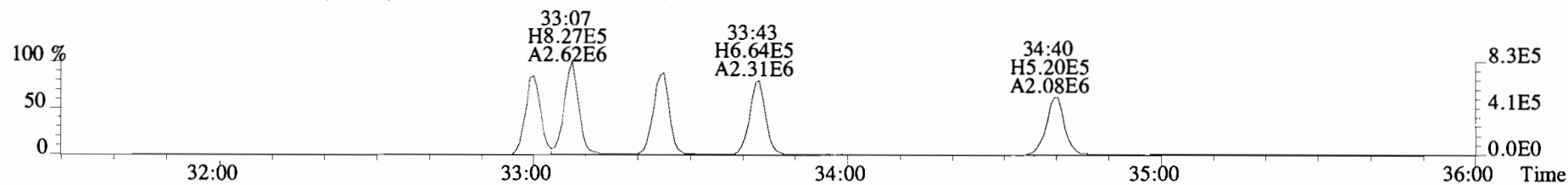
File:191211D2 #1-384 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



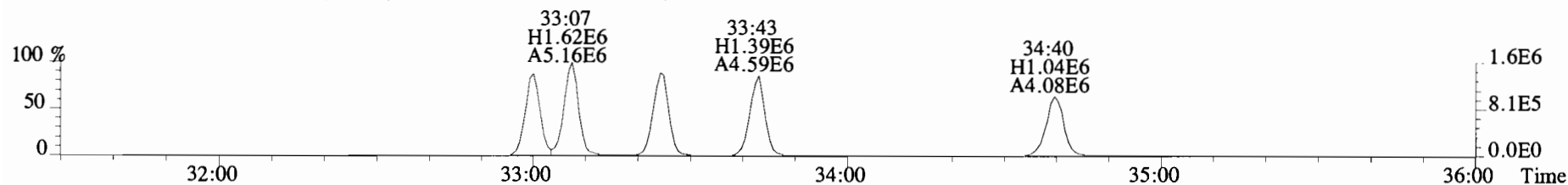
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



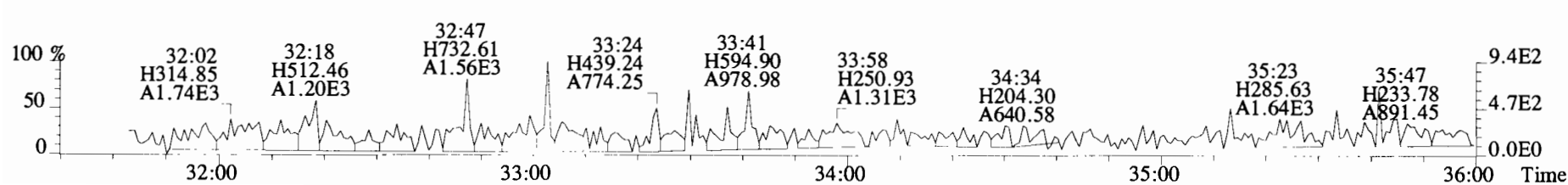
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



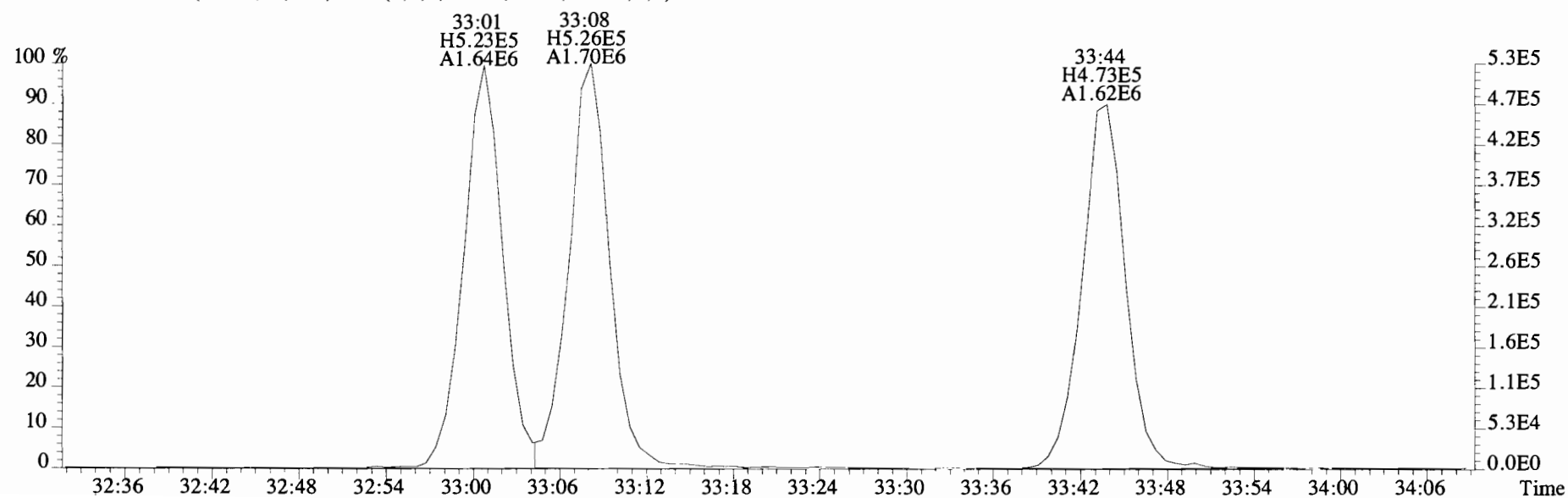
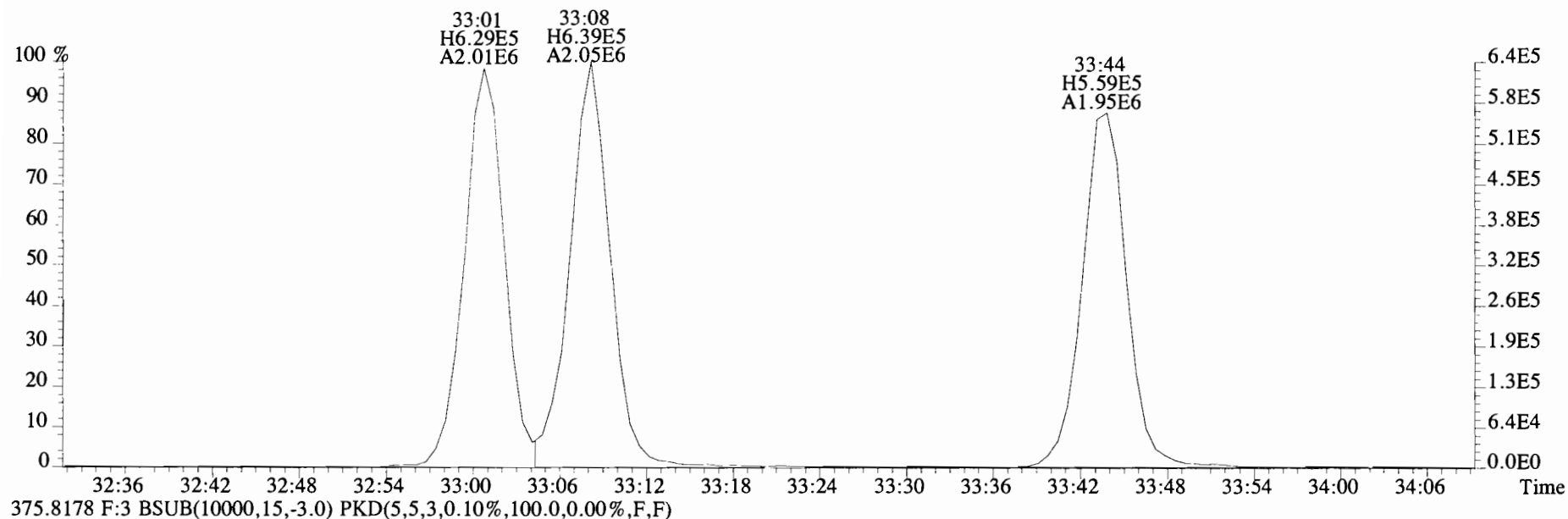
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



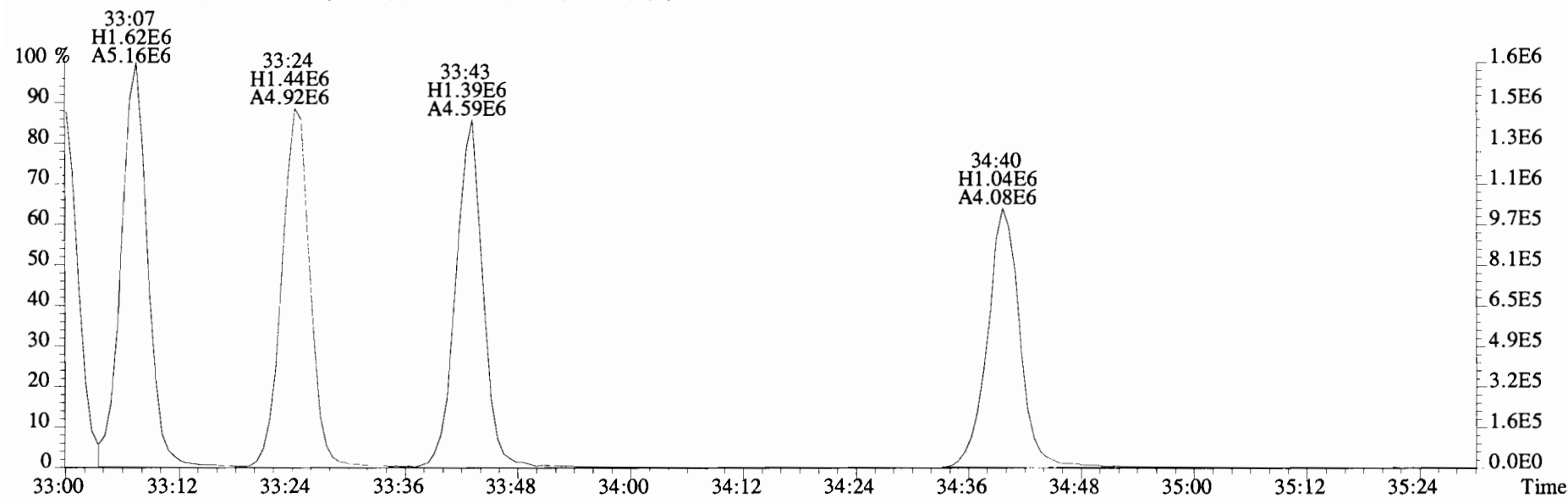
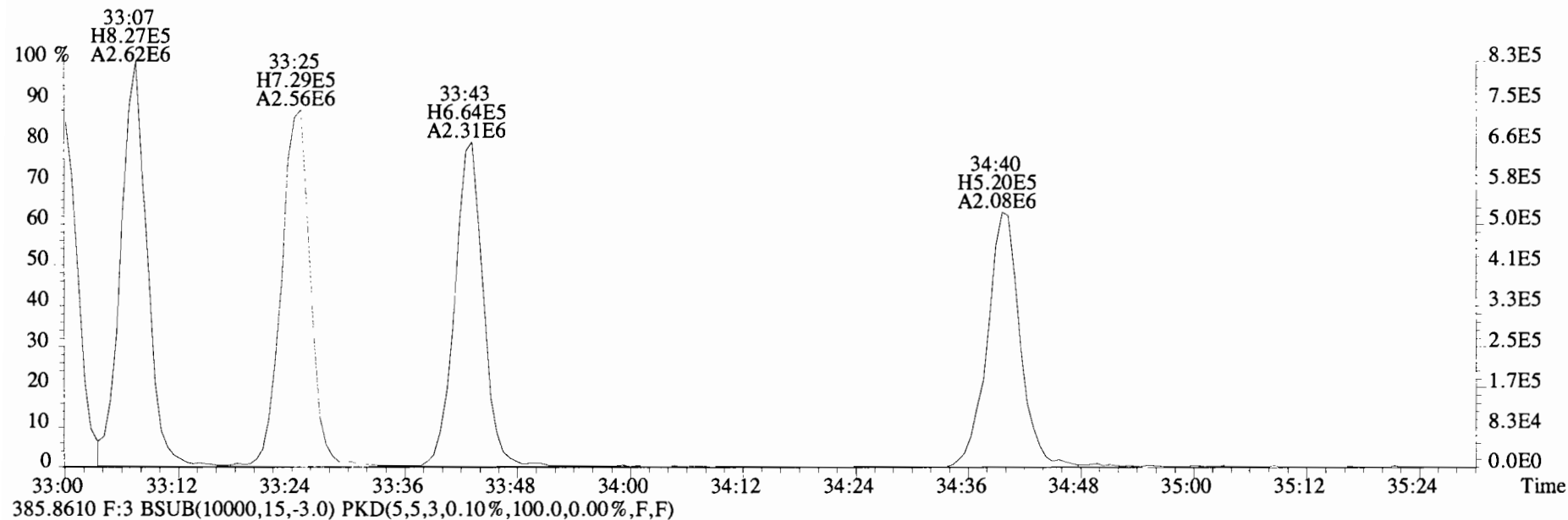
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



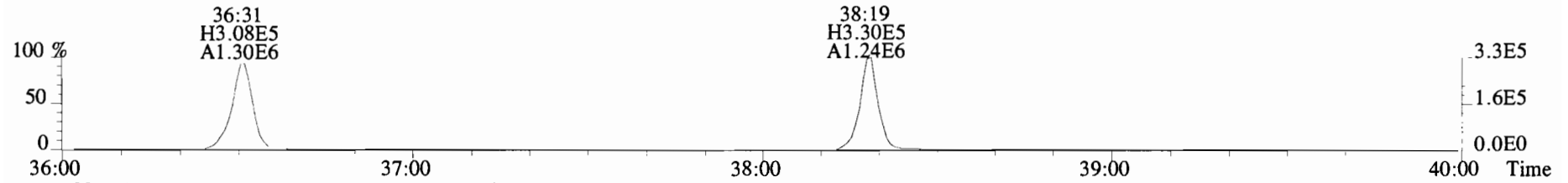
File:191211D2 #1-384 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



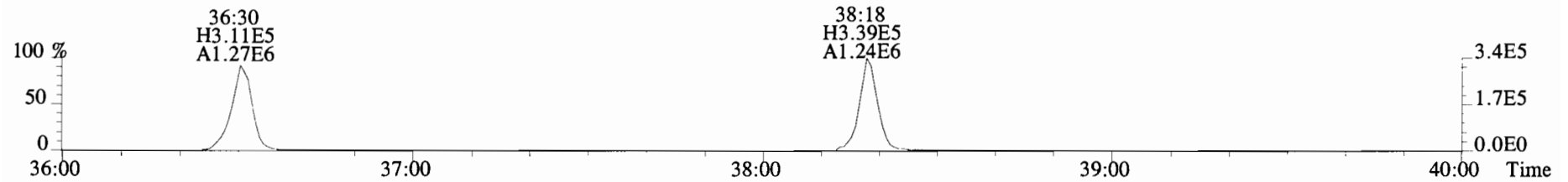
File:191211D2 #1-384 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



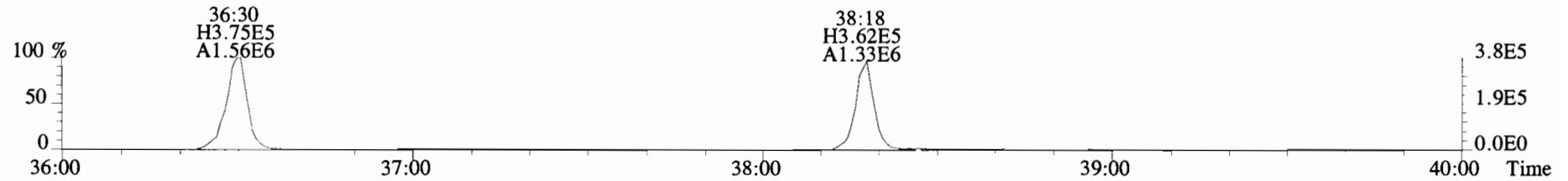
File:191211D2 #1-355 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



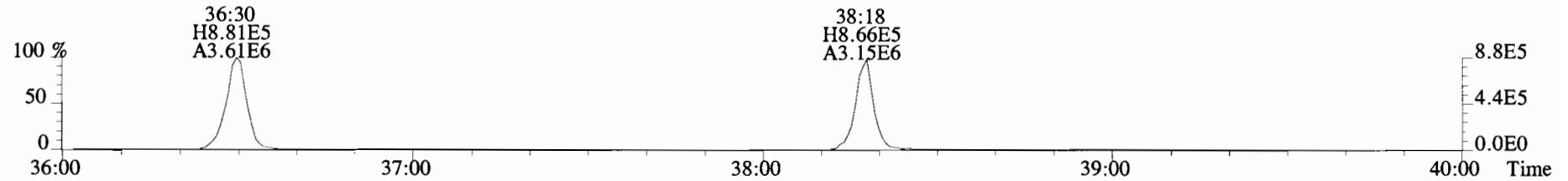
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



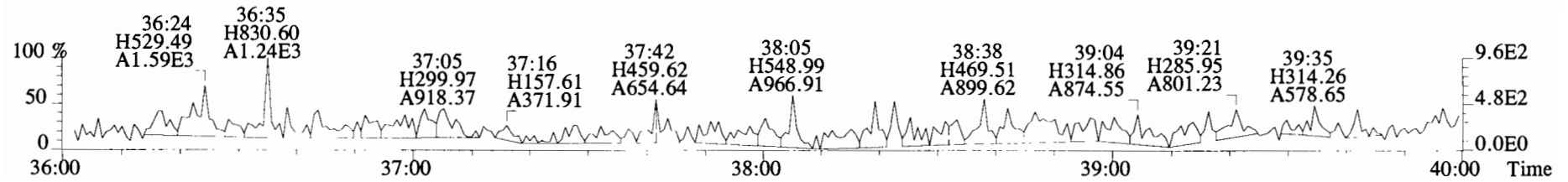
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



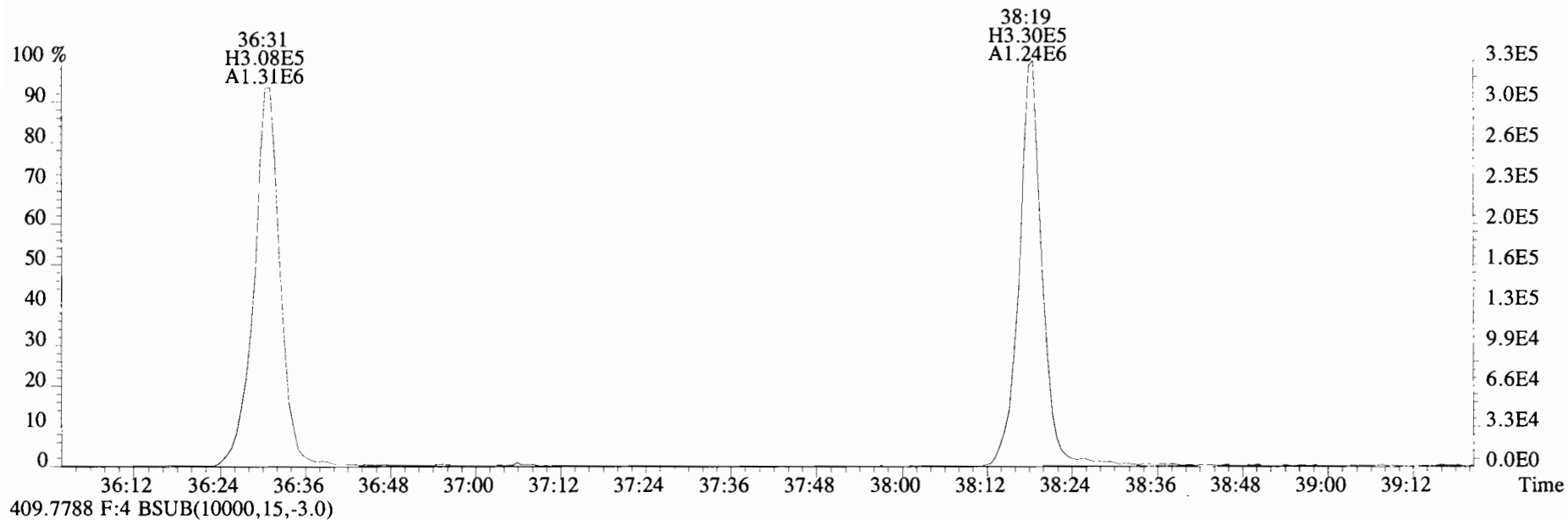
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



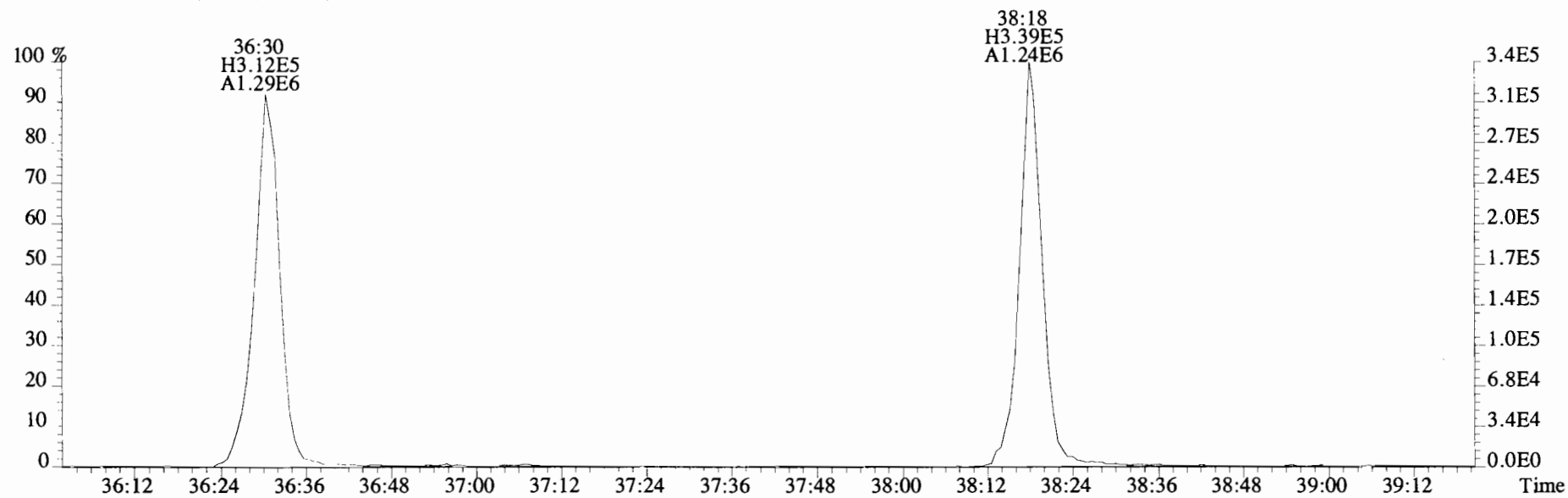
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



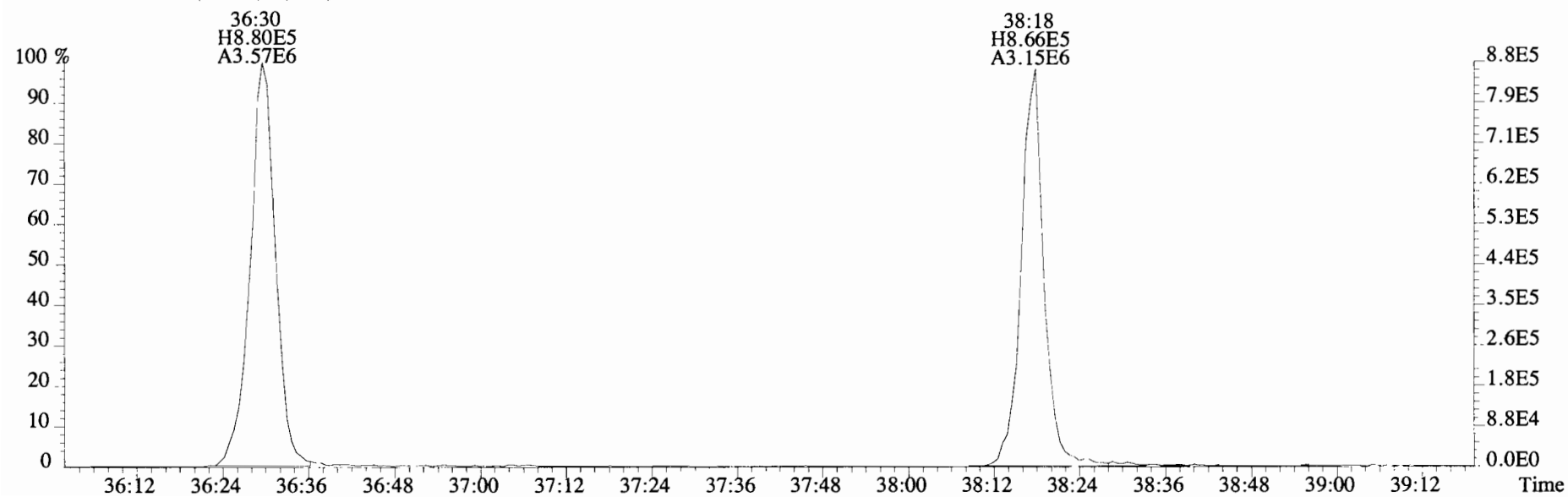
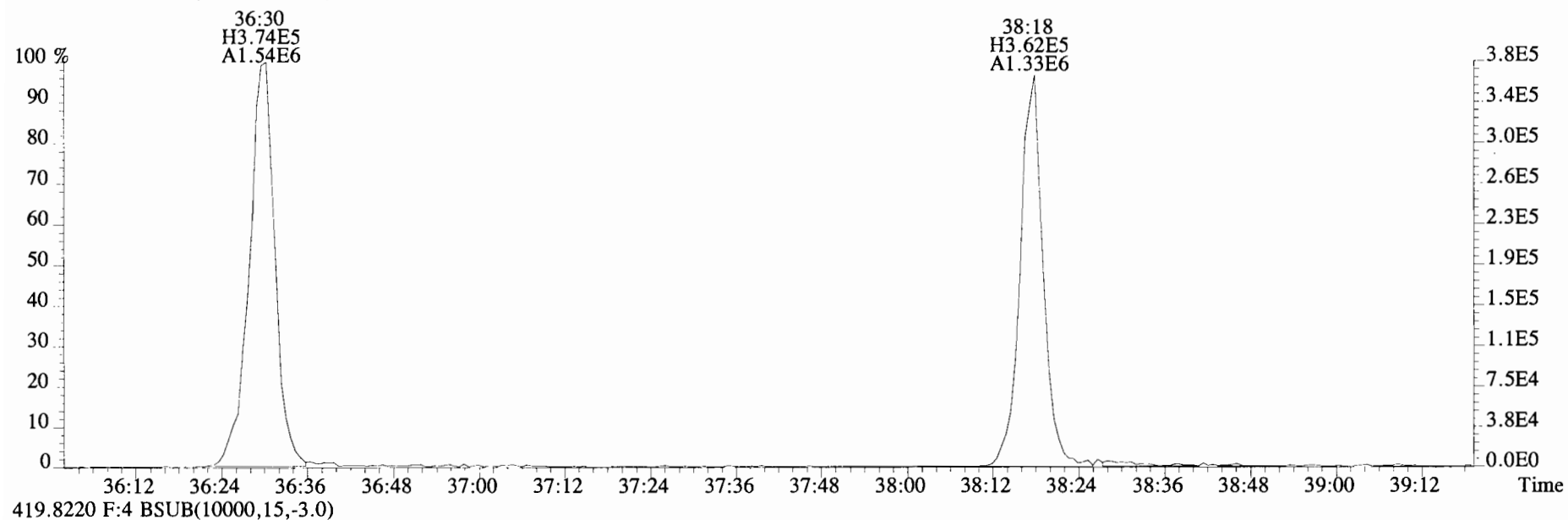
File:191211D2 #1-355 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
407.7818 F:4 BSUB(10000,15,-3.0)



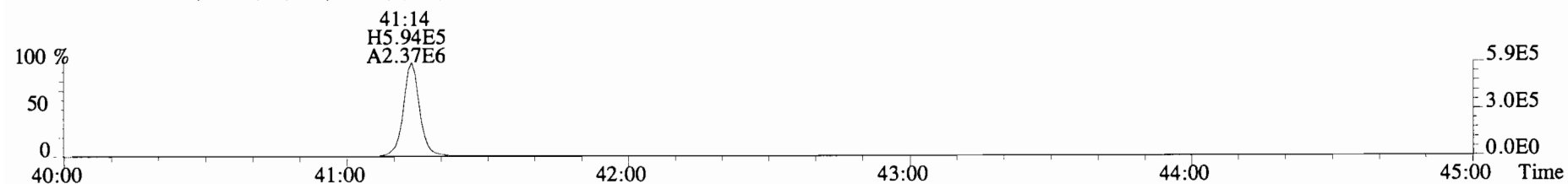
409.7788 F:4 BSUB(10000,15,-3.0)



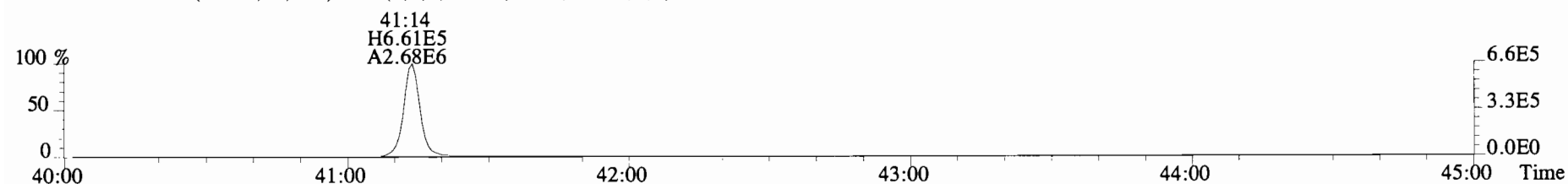
File:191211D2 #1-355 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
417.8253 F:4 BSUB(10000,15,-3.0)



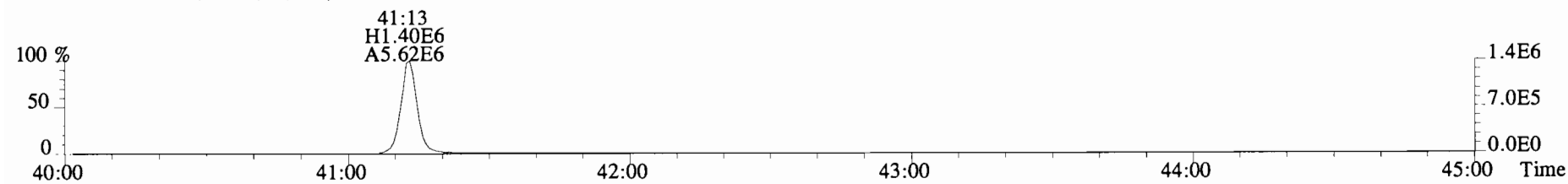
File:191211D2 #1-432 Acq:12-DEC-2019 00:21:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191211D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



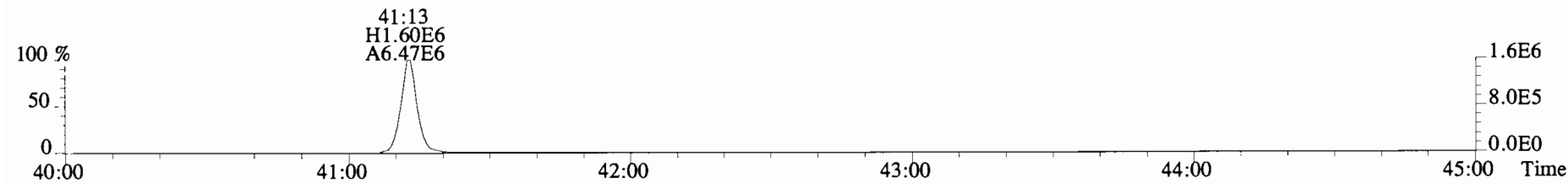
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



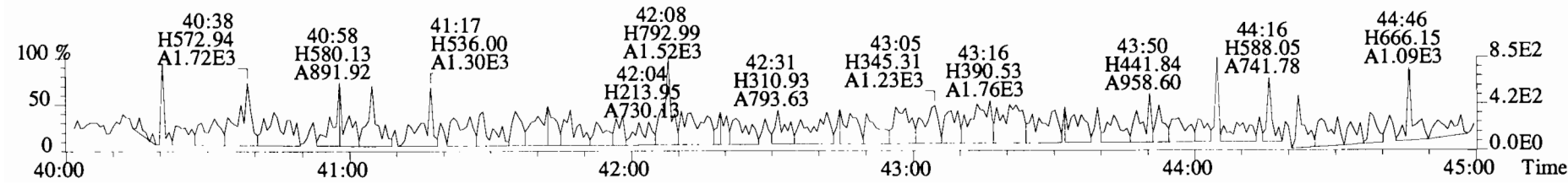
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

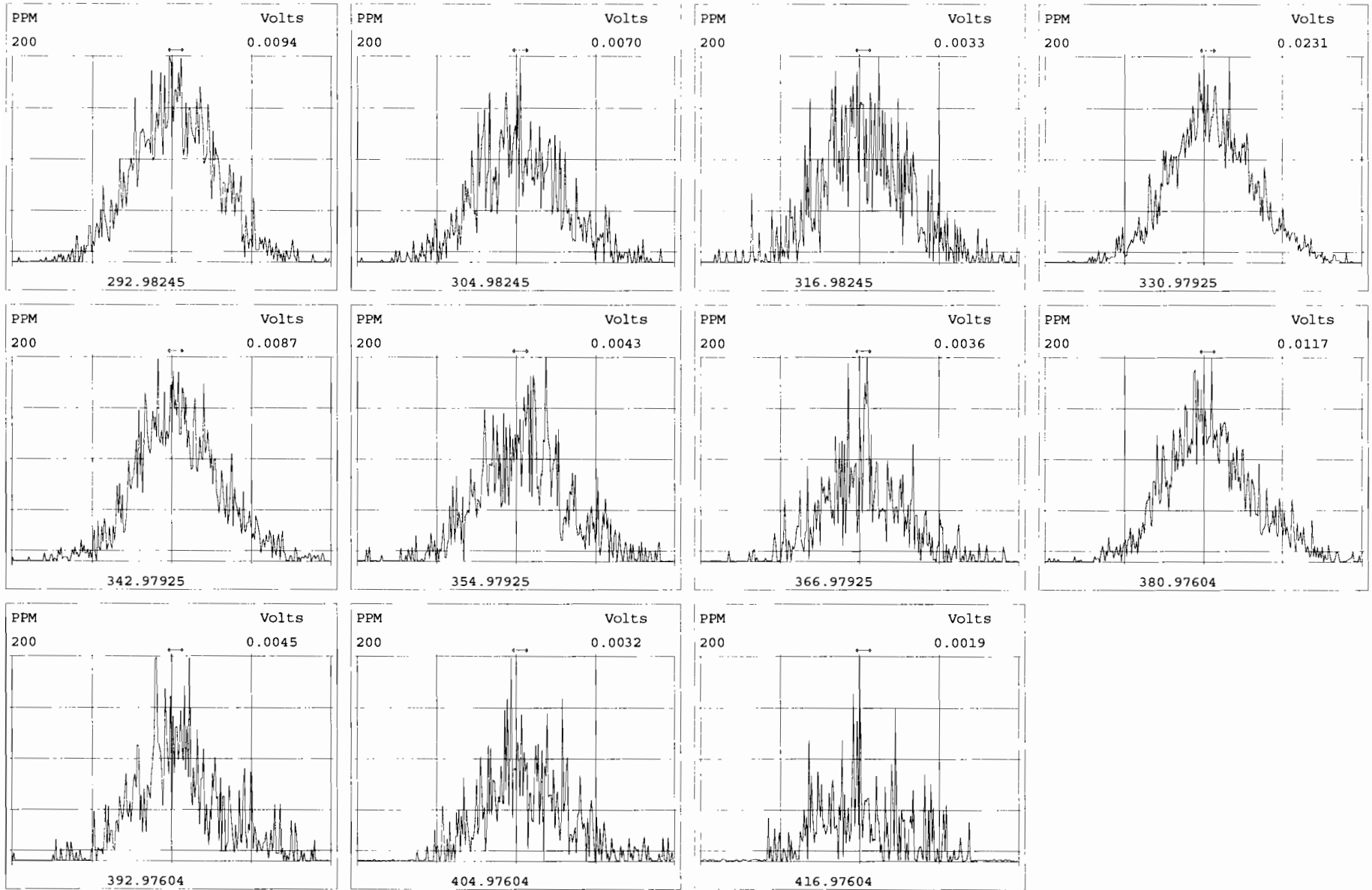


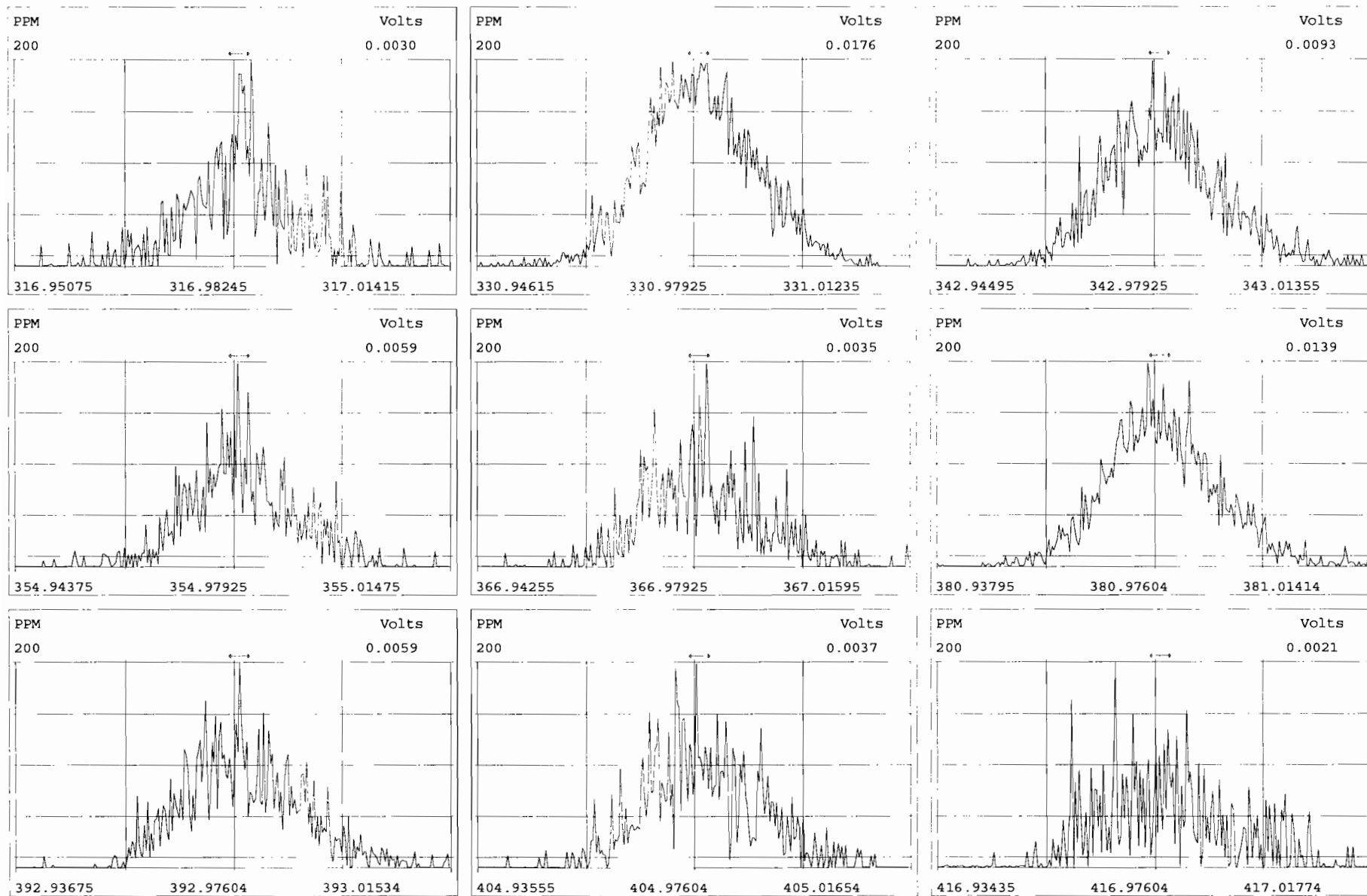
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

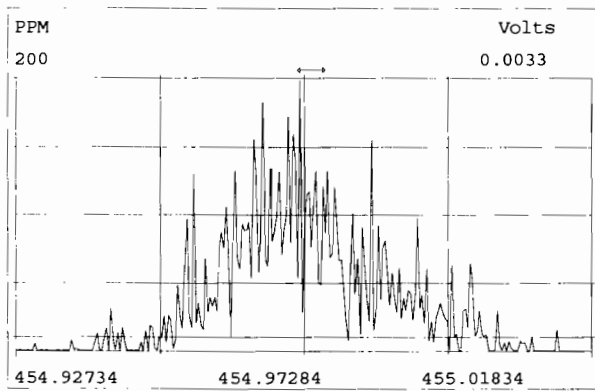
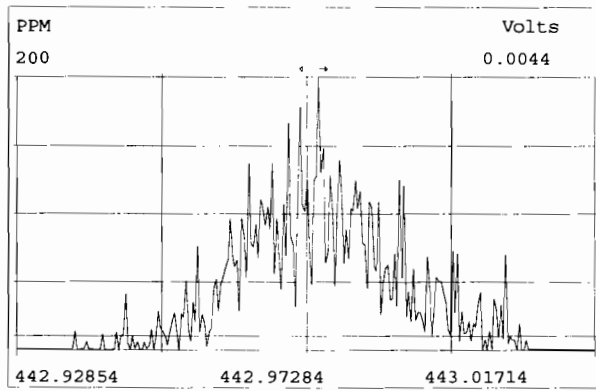
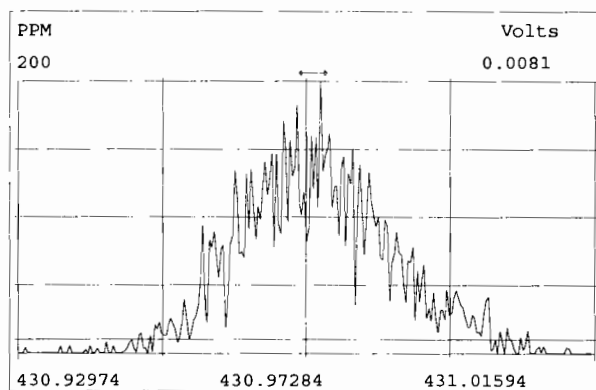
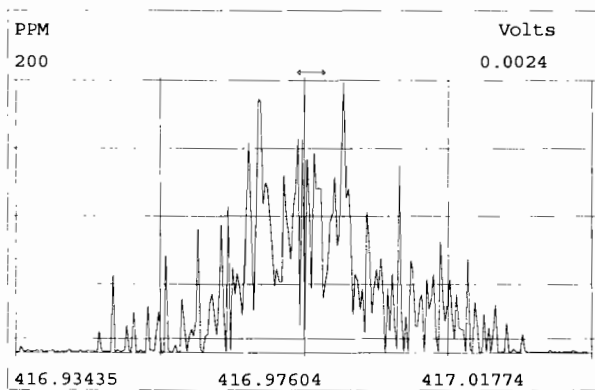
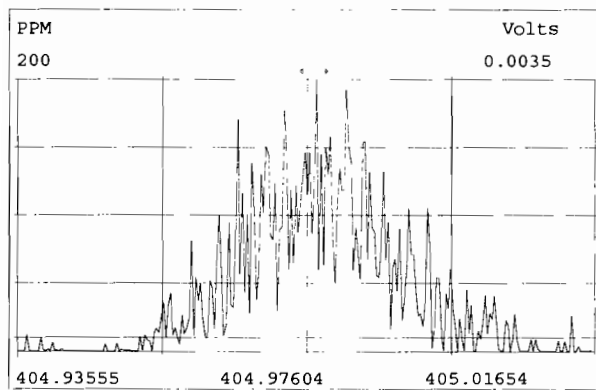
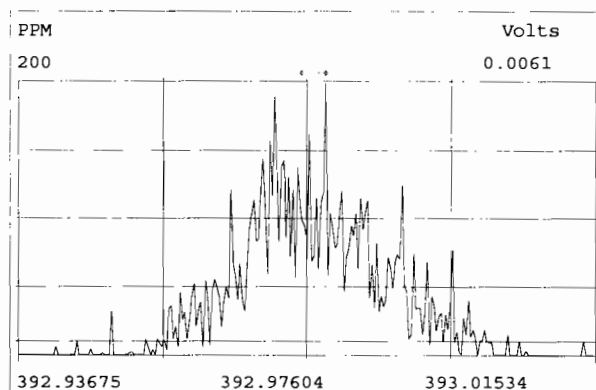
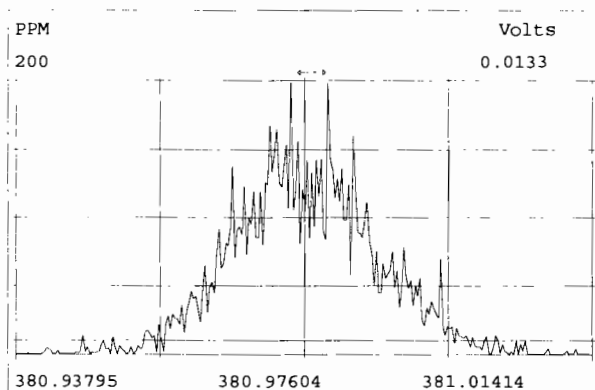
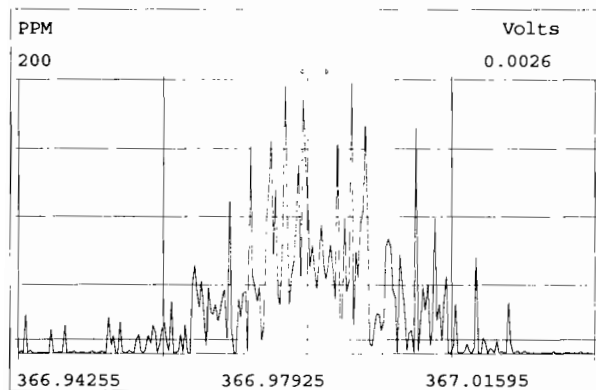


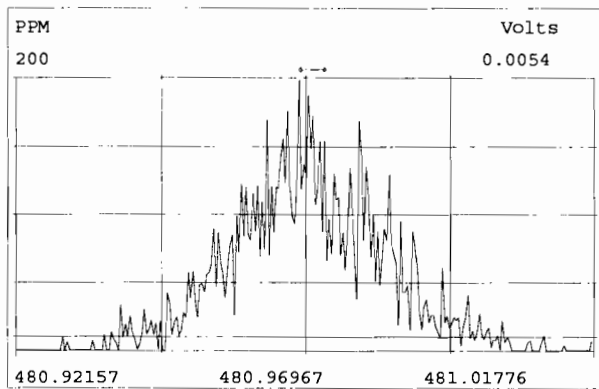
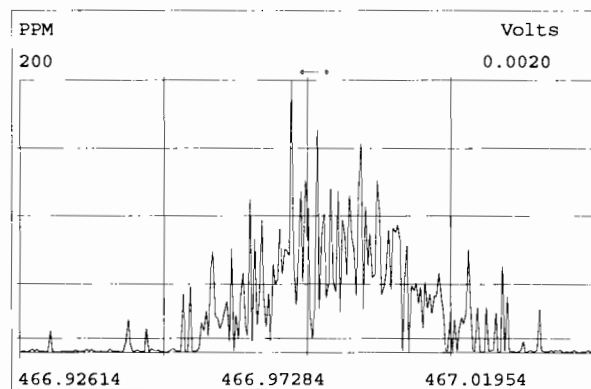
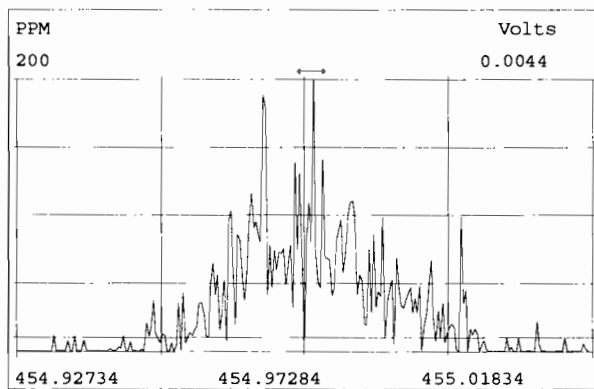
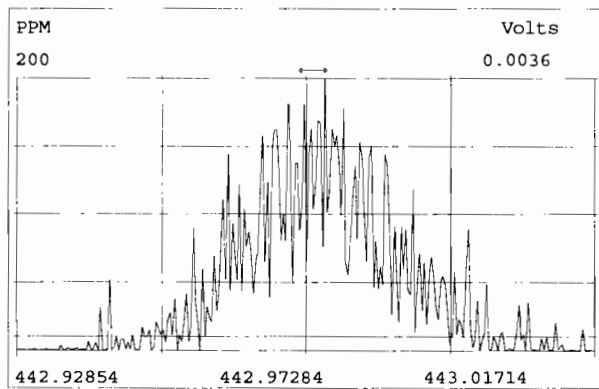
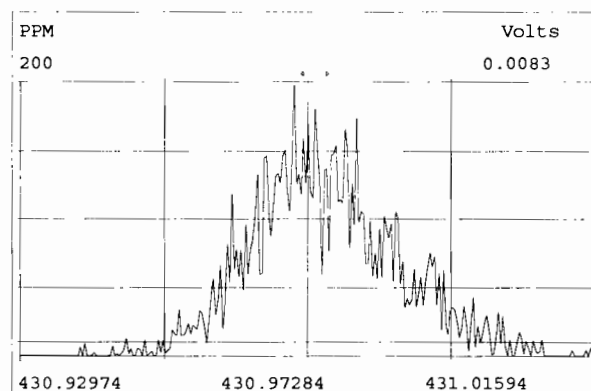
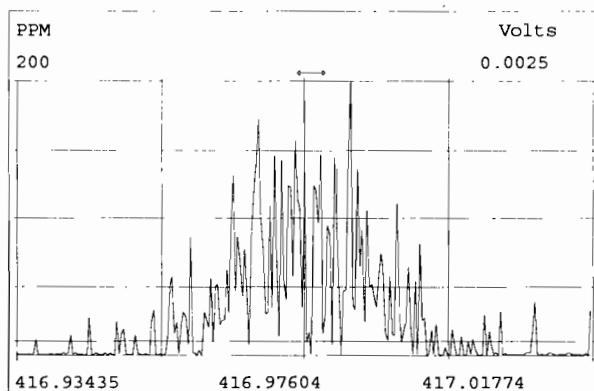
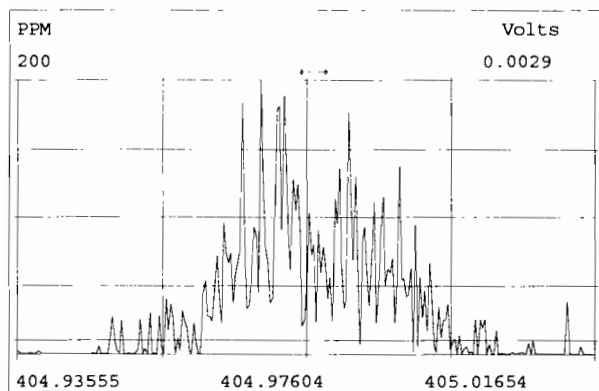
Peak Locate Examination:12-DEC-2019:10:05 File:RES_CHECK

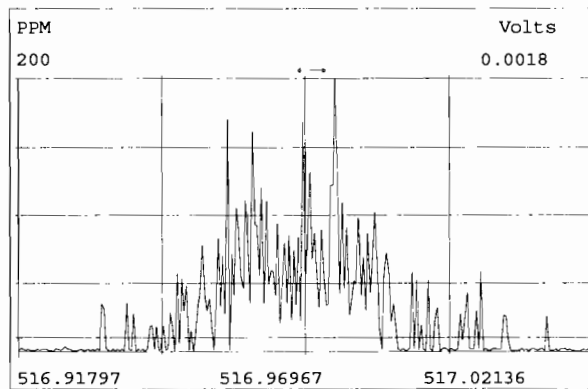
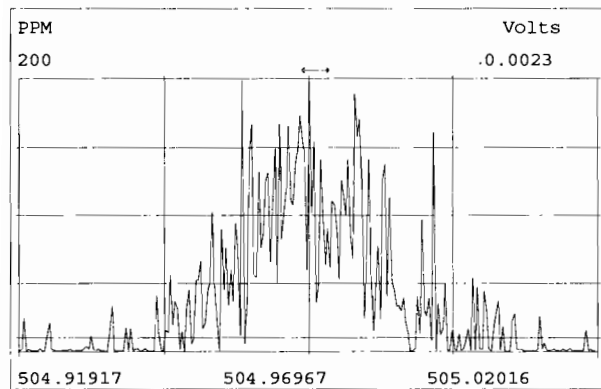
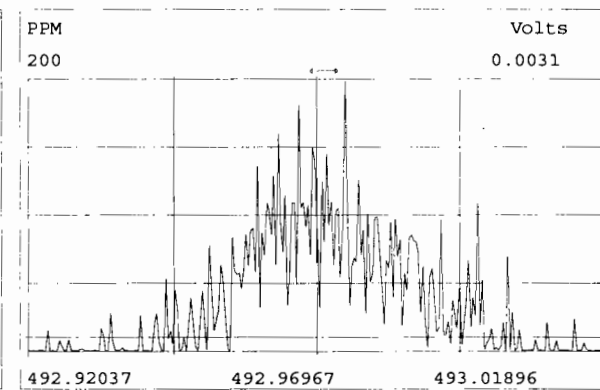
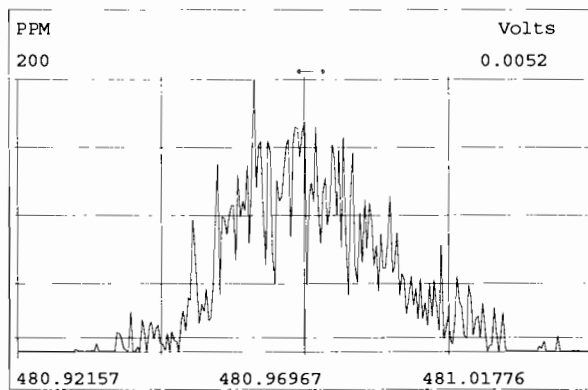
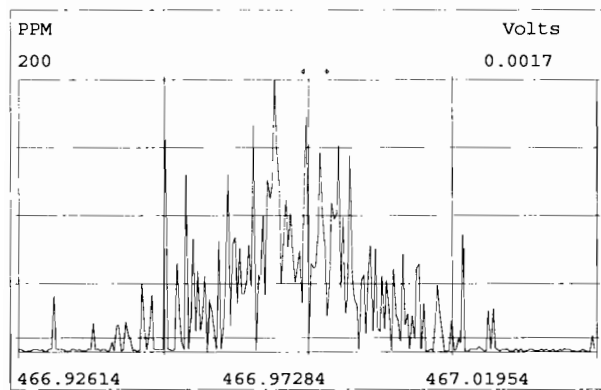
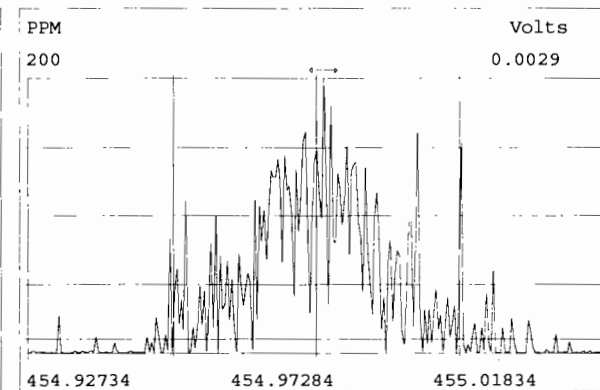
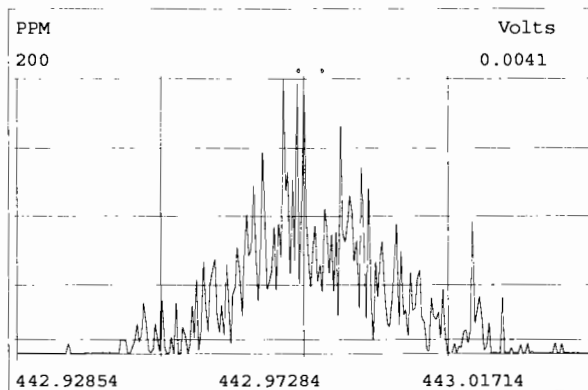
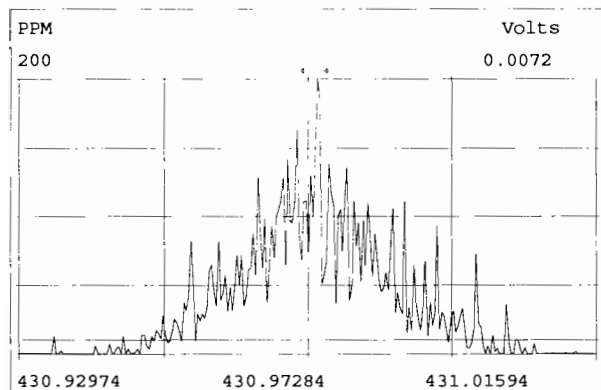
Experiment:OCDD_DB5 Function:1 Reference:PFK











HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200103D2-1

Reviewed By: CT 01/07/20
Initials & Date

End Calibration ID: ST200103D2-2

Ion abundance within QC limits? Beg. End

Concentrations within criteria? Beg. End

TCDD/TCDF Valleys <25% Beg. End

First and last eluters present? Beg. End

Retention Times within criteria? Beg. End

Verification Std. named correctly? Beg. End
 (ST-Year-Month-Day-VG ID)

Forms signed and dated? Beg. End

Correct ICAL referenced? DB DB

Run Log:

- Correct Instrument listed? Beg. End

- Samples within 12 hour clock? Y N

- Bottle position verified? DB

Mass resolution \geq Beg. End

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

Intergrated peaks display correctly? Beg. End

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: ST200103D2-1

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: 2B-5MS

VER Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC.	CONC.
	FORMING	ABUND.	LIMITS		FOUND	RANGE (3)
	RATIO (1)	RATIO	(2)			(ng/mL)
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	11.8	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	53.5	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	52.0	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	52.6	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.19	1.05-1.43	y	53.2	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	51.1	43.0 - 58.0
OCDD	M+2/M+4	0.92	0.76-1.02	y	107	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.81	0.65-0.89	y	9.38	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	55.0	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.63	1.32-1.78	y	50.8	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	47.5	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.18	1.05-1.43	y	47.5	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.20	1.05-1.43	y	49.1	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.23	1.05-1.43	y	48.0	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.00	0.88-1.20	y	47.1	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	46.4	43.0 - 58.0
OCDF	M+2/M+4	0.89	0.76-1.02	y	94.2	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: 1/3/20

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: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

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	0.82	0.65-0.89	y	106	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	97.7	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	100	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	91.2	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	94.0	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	102	72.0 - 138.0
13C-OCDD	M/M+2	0.90	0.76-1.02	y	188	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.76	0.65-0.89	y	99.4	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.63	1.32-1.78	y	96.2	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	94.7	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	107	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	101	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	100	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.50	0.43-0.59	y	104	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	0.41	0.37-0.51	y	105	77.0 - 129.0
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	206	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					9.94	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: 1/3/20

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: ST200103D2-1

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-SMS

VER Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
NATIVE ANALYTES					
2,3,7,8-TCDD	M/M+2	0.77 0.65-0.89	y	11.8	8.00 - 12.0
1,2,3,7,8-PeCDD	M/M+2	0.63 0.54-0.72	y	53.5	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25 1.05-1.43	y	52.0	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.21 1.05-1.43	y	52.6	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.19 1.05-1.43	y	53.2	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02 0.88-1.20	y	51.1	40.0 - 60.0
OCDD	M+2/M+4	0.92 0.76-1.02	y	107	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.81 0.65-0.89	y	9.38	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.60 1.32-1.78	y	55.0	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.63 1.32-1.78	y	50.8	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23 1.05-1.43	y	47.5	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.18 1.05-1.43	y	47.5	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.20 1.05-1.43	y	49.1	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.23 1.05-1.43	y	48.0	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.00 0.88-1.20	y	47.1	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02 0.88-1.20	y	46.4	40.0 - 60.0
OCDF	M+2/M+4	0.89 0.76-1.02	y	94.2	80.0 - 120

Analyst: DB

Date: 1/3/20

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-SMS

VER Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

LABELLED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.82	0.65-0.89	y	106	70.0 - 130
13C-1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	97.7	70.0 - 130
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	100	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	91.2	70.0 - 130
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	94.0	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	102	70.0 - 130
13C-OCDD	M+2/M+4	0.90	0.76-1.02	y	188	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	99.4	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.63	1.32-1.78	y	96.2	70.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	94.7	70.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	107	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	101	70.0 - 130
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	100	70.0 - 130
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.50	0.43-0.59	y	104	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.37-0.51	y	101	70.0 - 130
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.41	0.37-0.51	y	105	70.0 - 130
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	206	140 - 260
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD					9.94	7.00 - 13.0

Analyst: DBDate: 1/3/20

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: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

ZB-5MS IS Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

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)	22:33	1,3,6,8-TCDF (F)	20:24
1,2,8,9-TCDD (L)	26:53	1,2,8,9-TCDF (L)	27:02
1,2,4,7,9-PeCDD (F)	28:31	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)	31:50
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)	36:54	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: 1/3/20

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: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME		RRT	QC LIMITS (1)
	REFERENCE	RT		
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	1.001	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	1.023	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: 1/3/20

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-SMS

VER Data Filename: 200103D2 S#1 Analysis Date: 3-JAN-20 Time: 14:51:42

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	1.001	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	1.001	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	0.992	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	1.018	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	1.147	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: 1/3/20

Client ID: 1613 CS3 19C2204
 Lab ID: ST200103D2-1

Filename: 200103D2 S:1 Acq: 3-JAN-20 14:51:42
 GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

ConCal: ST200103D2-1
 EndCAL: ST200103D2-2

	Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
	2,3,7,8-TCDD	1.66e+06	0.77 y	0.91	26:01	11.829		* 2.5		*
	1,2,3,7,8-PeCDD	5.57e+06	0.63 y	0.90	30:35	53.508		* 2.5		*
	1,2,3,4,7,8-HxCDD	5.67e+06	1.25 y	1.10	33:53	51.983		* 2.5		*
	1,2,3,6,7,8-HxCDD	5.95e+06	1.21 y	0.94	33:60	52.647		* 2.5		*
	1,2,3,7,8,9-HxCDD	5.98e+06	1.19 y	0.96	34:17	53.209		* 2.5		*
	1,2,3,4,6,7,8-HpCDD	5.13e+06	1.02 y	0.98	37:46	51.077		* 2.5		*
	OCDD	8.58e+06	0.92 y	0.96	41:02	106.65		* 2.5		*
	2,3,7,8-TCDF	2.11e+06	0.81 y	0.95	25:13	9.3820		* 2.5		*
	1,2,3,7,8-PeCDF	1.00e+07	1.60 y	0.96	29:24	54.988		* 2.5		*
	2,3,4,7,8-PeCDF	9.52e+06	1.63 y	1.01	30:17	50.761		* 2.5		*
	1,2,3,4,7,8-HxCDF	7.64e+06	1.23 y	1.18	32:60	47.549		* 2.5		*
	1,2,3,6,7,8-HxCDF	8.14e+06	1.18 y	1.07	33:07	47.464		* 2.5		*
	2,3,4,6,7,8-HxCDF	8.06e+06	1.20 y	1.11	33:43	49.126		* 2.5		*
	1,2,3,7,8,9-HxCDF	6.75e+06	1.23 y	1.06	34:40	48.005		* 2.5		*
	1,2,3,4,6,7,8-HpCDF	6.28e+06	1.00 y	1.13	36:30	47.091		* 2.5		*
	1,2,3,4,7,8,9-HpCDF	5.57e+06	1.02 y	1.28	38:18	46.446		* 2.5		*
	OCDF	9.78e+06	0.89 y	0.95	41:15	94.243		* 2.5		*
IS	13C-2,3,7,8-TCDD	1.55e+07	0.82 y	1.10	25:60	105.73				
IS	13C-1,2,3,7,8-PeCDD	1.15e+07	0.64 y	0.88	30:34	97.736				
IS	13C-1,2,3,4,7,8-HxCDD	9.90e+06	1.29 y	0.64	33:52	100.07				
IS	13C-1,2,3,6,7,8-HxCDD	1.20e+07	1.28 y	0.86	33:59	91.240				
IS	13C-1,2,3,7,8,9-HxCDD	1.17e+07	1.24 y	0.81	34:16	94.017				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.03e+07	1.07 y	0.65	37:45	101.79				
IS	13C-OCDD	1.68e+07	0.90 y	0.58	41:01	187.86				
IS	13C-2,3,7,8-TCDF	2.37e+07	0.76 y	1.03	25:12	99.390				
IS	13C-1,2,3,7,8-PeCDF	1.89e+07	1.63 y	0.85	29:22	96.211				
IS	13C-2,3,4,7,8-PeCDF	1.85e+07	1.58 y	0.85	30:17	94.679				
IS	13C-1,2,3,4,7,8-HxCDF	1.37e+07	0.50 y	0.83	32:59	106.51				
IS	13C-1,2,3,6,7,8-HxCDF	1.60e+07	0.50 y	1.03	33:07	100.60				
IS	13C-2,3,4,6,7,8-HxCDF	1.47e+07	0.50 y	0.95	33:42	100.29				
IS	13C-1,2,3,7,8,9-HxCDF	1.33e+07	0.50 y	0.83	34:39	103.87				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.18e+07	0.43 y	0.76	36:29	101.27				
IS	13C-1,2,3,4,7,8,9-HpCDF	9.37e+06	0.41 y	0.58	38:17	104.58				
IS	13C-OCDF	2.19e+07	0.90 y	0.69	41:14	206.41				
C/Up	37C1-2,3,7,8-TCDD	1.59e+06		1.20	26:01	9.9392				
RS/RT	13C-1,2,3,4-TCDD	1.34e+07	0.84 y	1.00	25:25	100.00				
RS	13C-1,2,3,4-TCDF	2.30e+07	0.81 y	1.00	23:58	100.00				
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.54e+07	0.51 y	1.00	33:23	100.00				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	82.0	82.4		*	*
Total Penta-Dioxins	210	210		*	*
Total Hexa-Dioxins	235	236		*	*
Total Hepta-Dioxins	118	119		*	*
Total Tetra-Furans	37.4	37.9		*	*
Total Penta-Furans	231.24	232.21		*	*
Total Hexa-Furans	256	257		*	*
Total Hepta-Furans	94.3	95.5		*	*

Rec Qual

106
 97.7
 100
 91.2
 94.0
 102
 93.9
 99.4
 96.2
 94.7
 107
 101
 100
 104
 101
 105
 103

99.4

Integrations
 by
 Analyst: DB

Reviewed
 by
 Analyst: _____

Date: 1/3/20

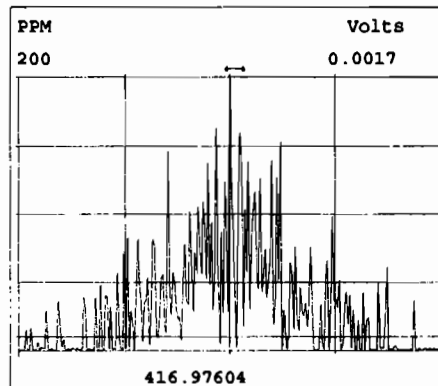
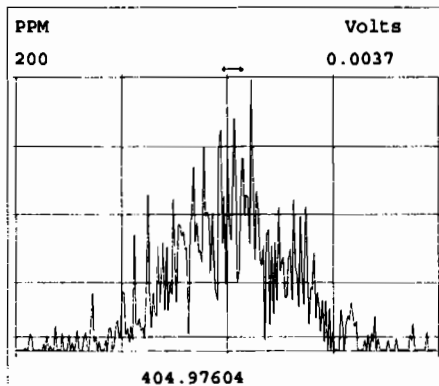
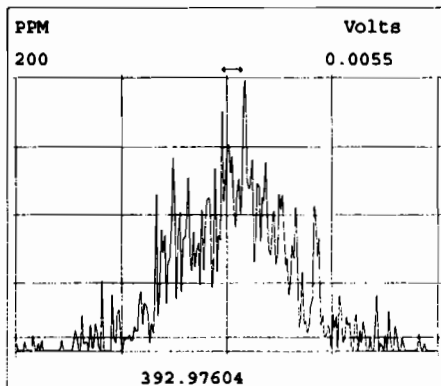
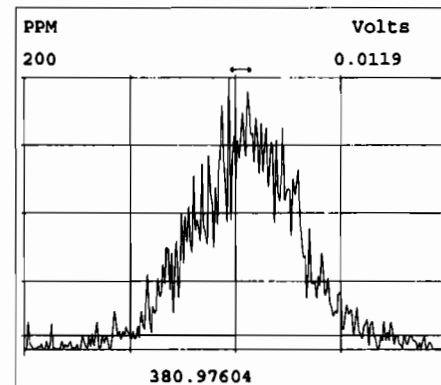
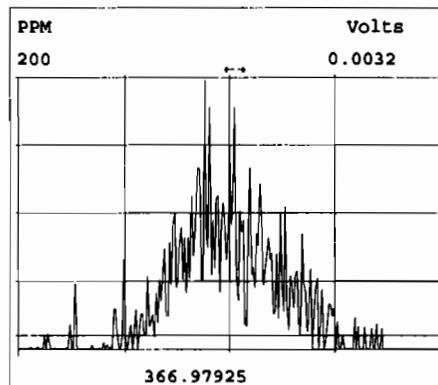
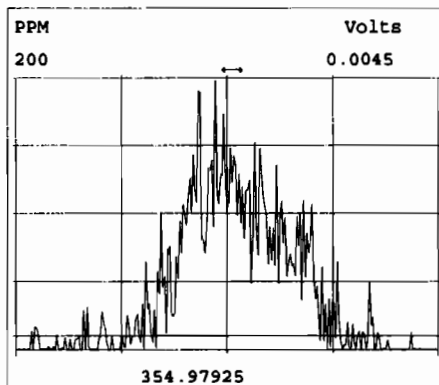
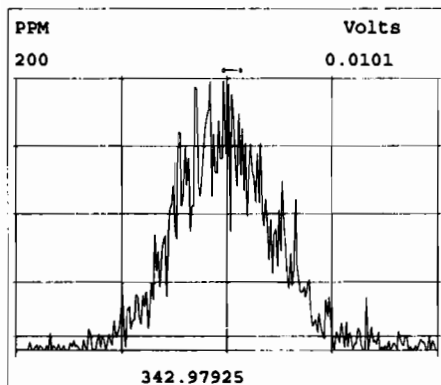
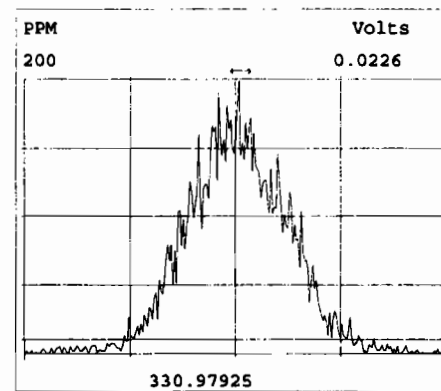
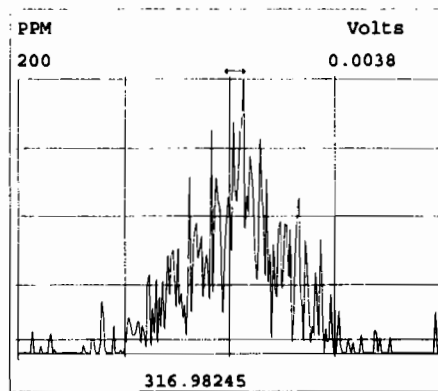
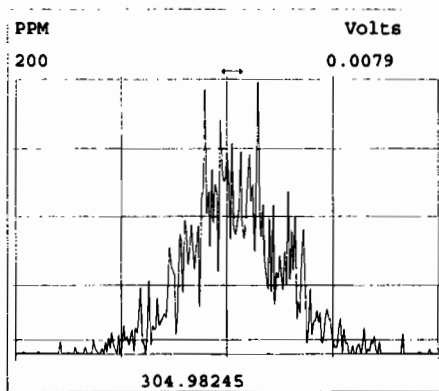
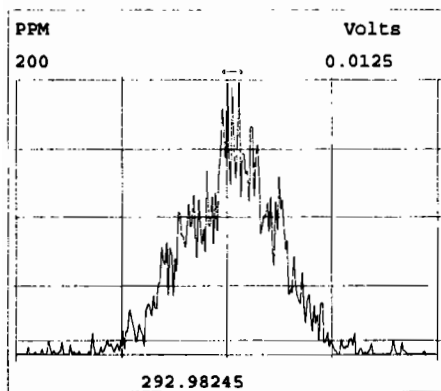
Date: _____

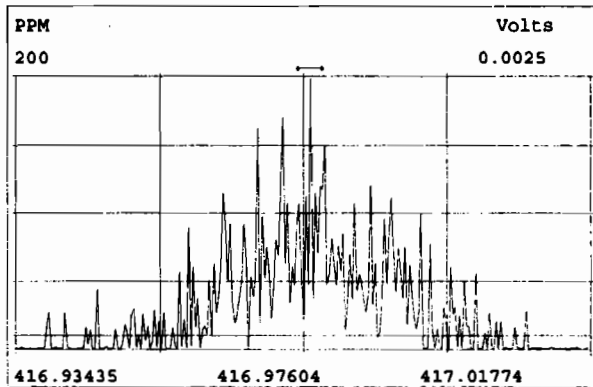
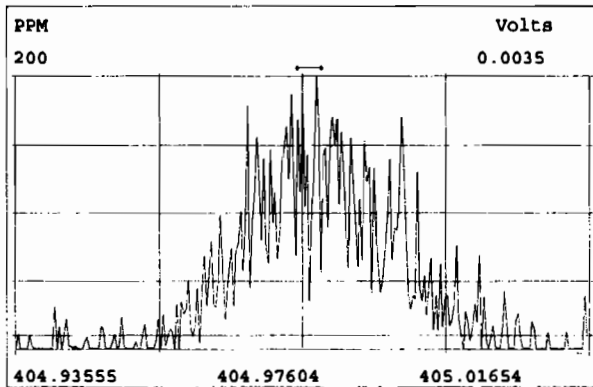
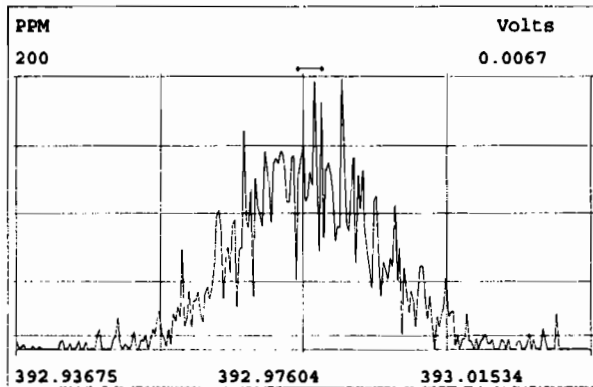
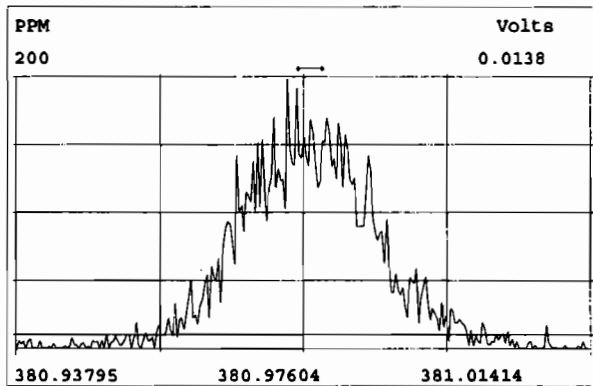
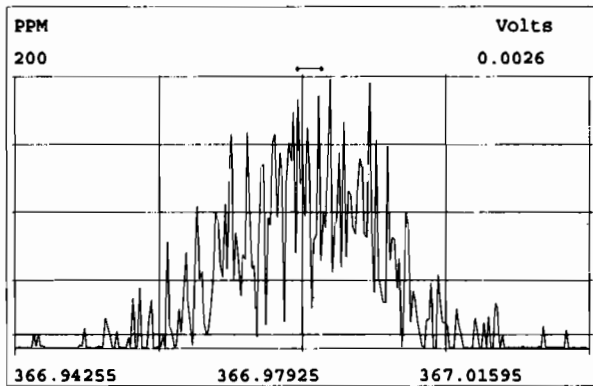
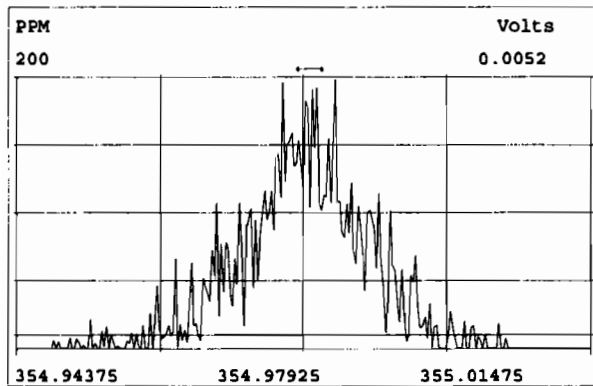
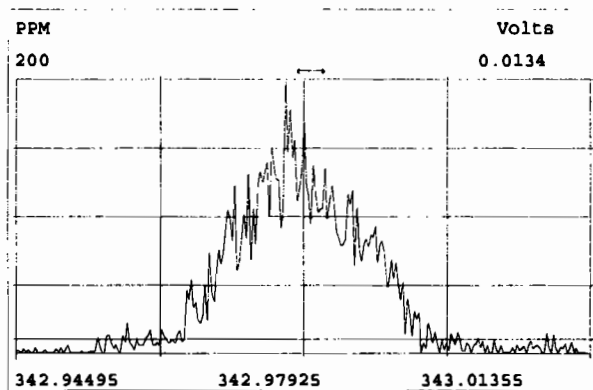
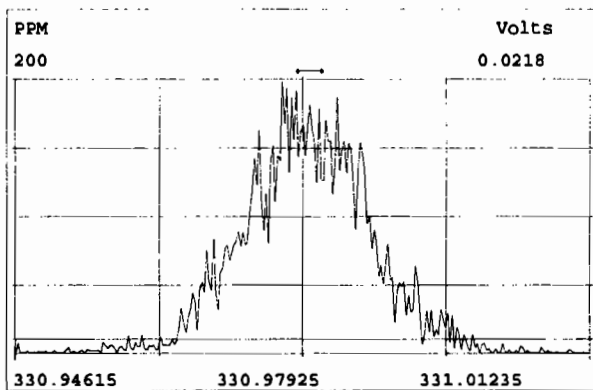
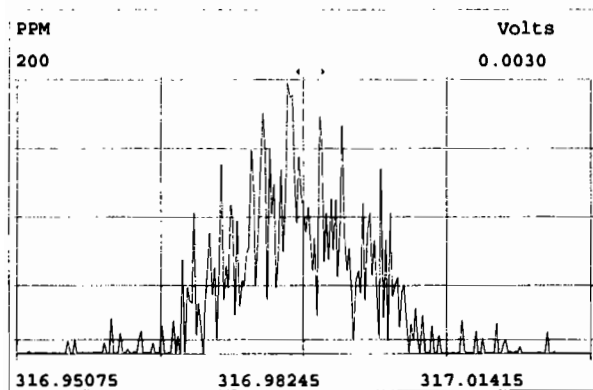
Vista Analytical Laboratory - Injection Log Run file: 200103D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

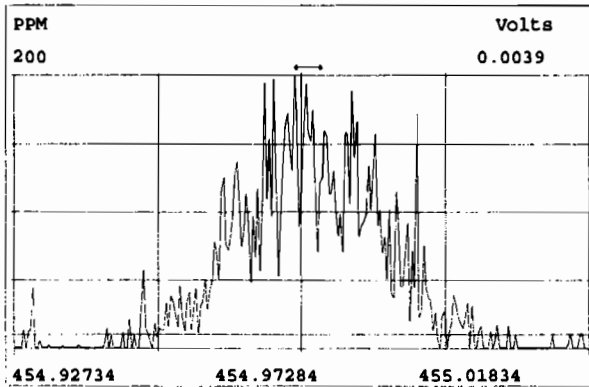
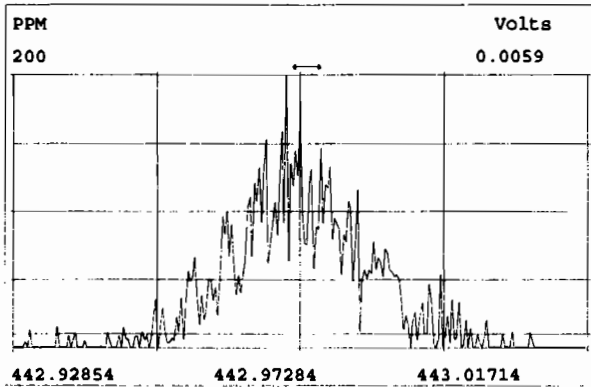
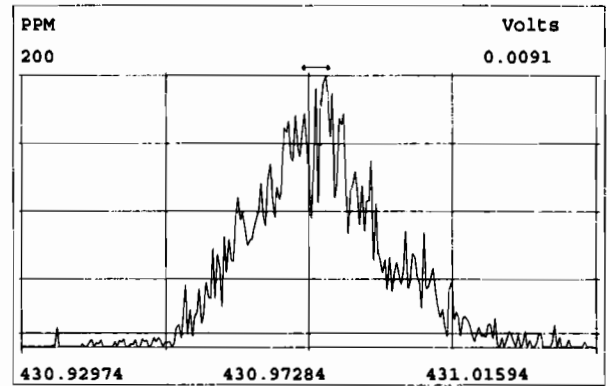
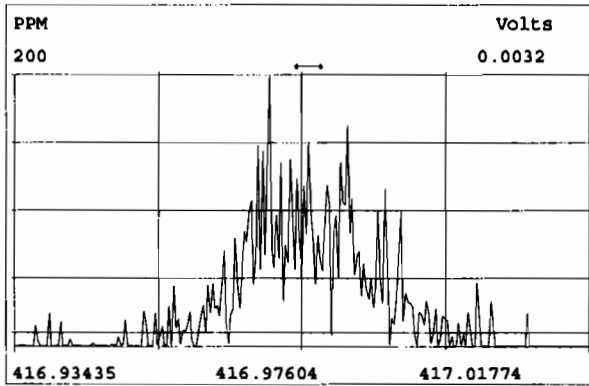
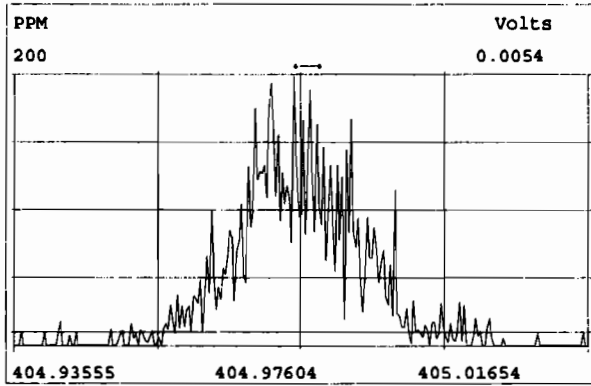
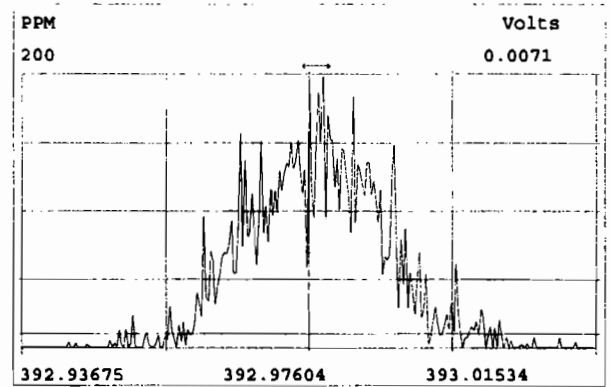
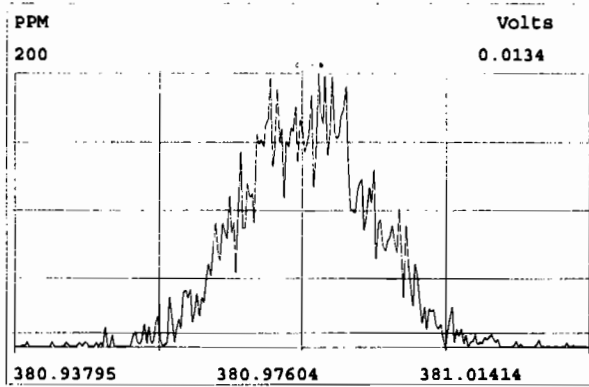
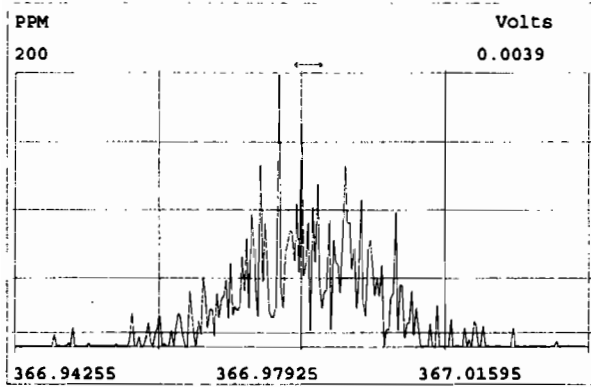
Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
200103D2	1	ST200103D2-1	DB	3-JAN-20	14:51:42	ST200103D2-1	ST200103D2-2
200103D2	2	B9L0055-BS1	DB	3-JAN-20	15:39:42	ST200103D2-1	NA
200103D2	3	B9L0221-BS1	DB	3-JAN-20	16:27:27	ST200103D2-1	NA
200103D2	4	SOLVENT BLANK	DB	3-JAN-20	17:15:23	NA	NA
200103D2	5	B9L0055-BLK1	DB	3-JAN-20	18:03:08	ST200103D2-1	NA
200103D2	6	B9L0221-BLK1	DB	3-JAN-20	18:50:54	ST200103D2-1	NA
200103D2	7	1903995-08	DB	3-JAN-20	19:38:39	ST200103D2-1	ST200103D2-2
200103D2	8	1903995-09	DB	3-JAN-20	20:26:24	ST200103D2-1	ST200103D2-2
200103D2	9	1903995-10	DB	3-JAN-20	21:14:09	ST200103D2-1	ST200103D2-2
200103D2	10	1903995-11	DB	3-JAN-20	22:01:57	ST200103D2-1	ST200103D2-2
200103D2	11	1904049-01	DB	3-JAN-20	22:49:52	ST200103D2-1	NA
200103D2	12	1904016-06@3X	DB	3-JAN-20	23:37:36	ST200103D2-1	NA
200103D2	13	1903655-06@10X	DB	4-JAN-20	00:25:25	ST200103D2-1	NA
200103D2	14	1904271-01	DB	4-JAN-20	01:12:33	ST200103D2-1	NA
200103D2	15	SOLVENT BLANK	DB	4-JAN-20	02:00:18	NA	NA
200103D2	16	ST200103D2-2	DB	4-JAN-20	02:47:28	ST200103D2-1	ST200103D2-2

Peak Locate Examination: 3-JAN-2020:14:45 File:200103D2

Experiment:OCDD_DB5 Function:1 Reference:PFK

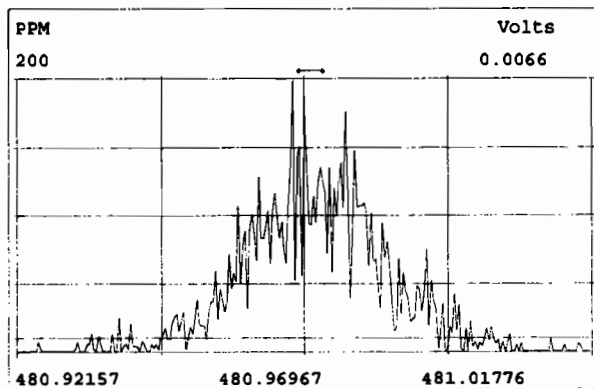
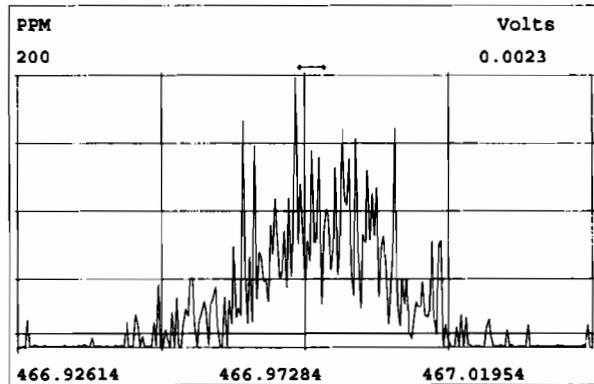
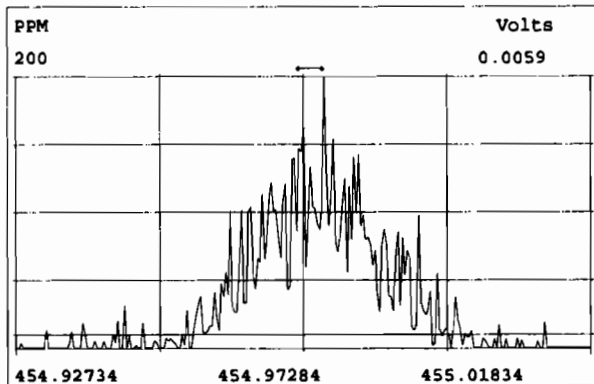
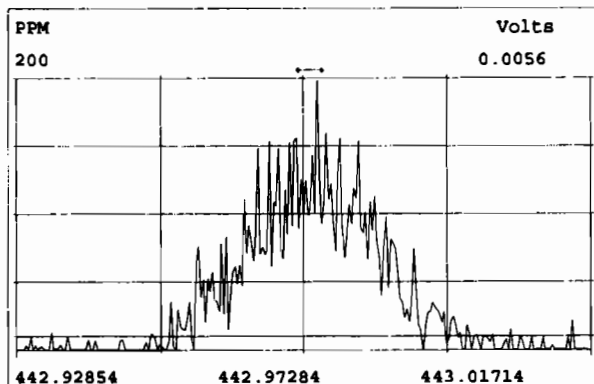
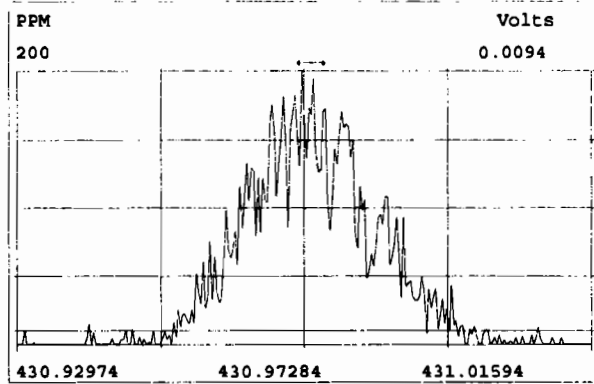
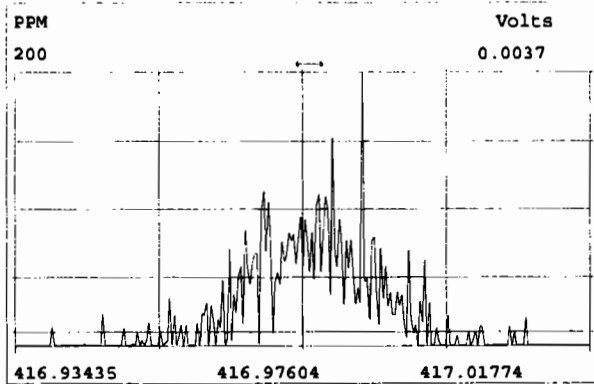
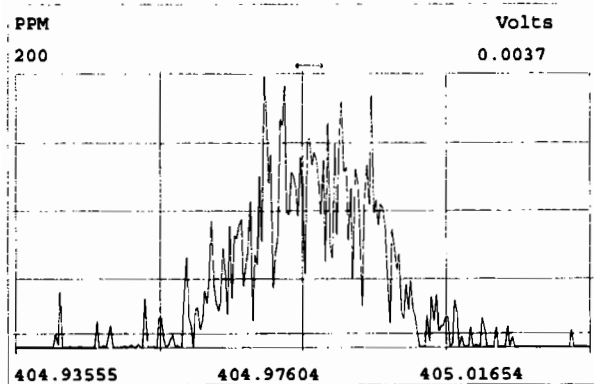






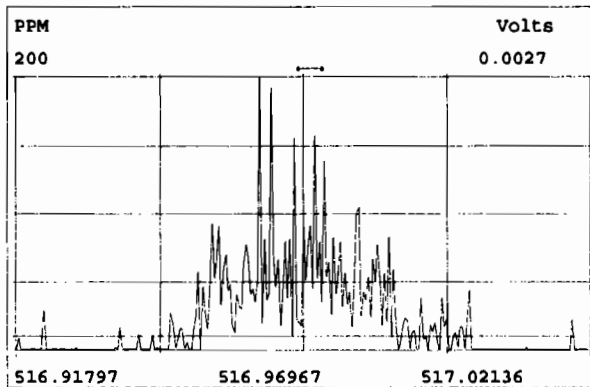
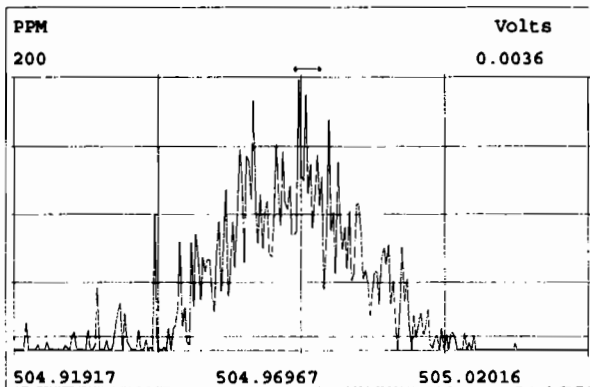
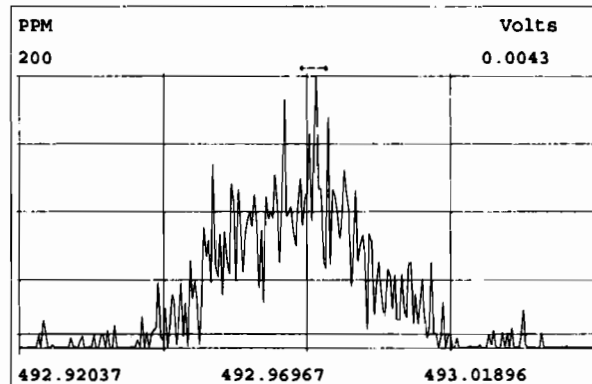
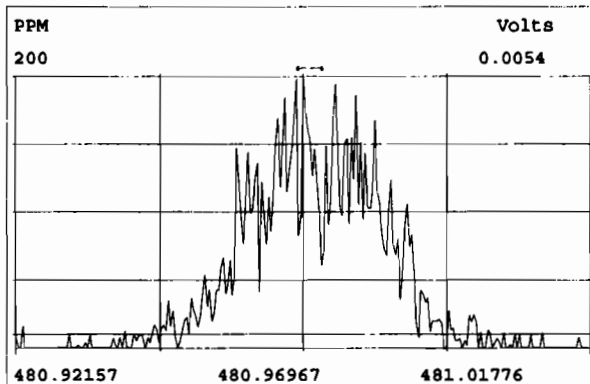
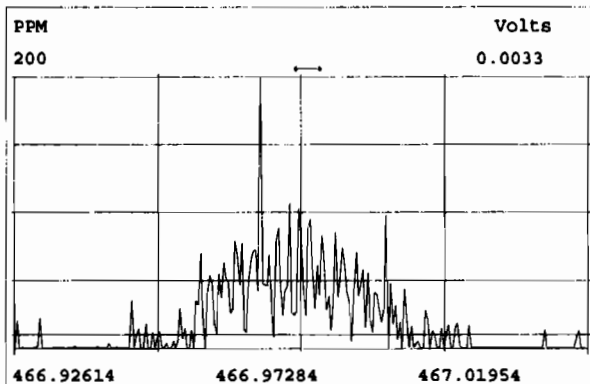
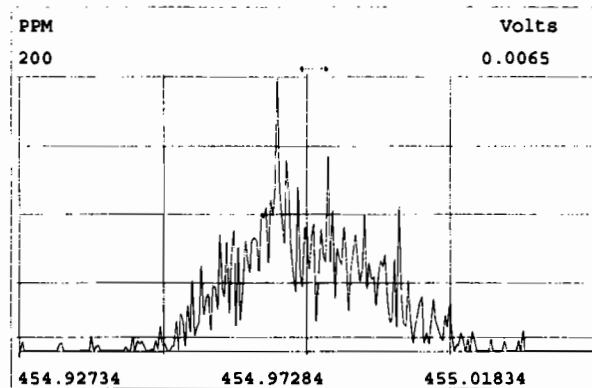
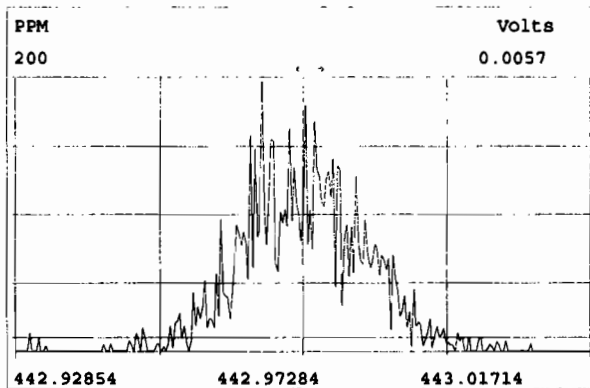
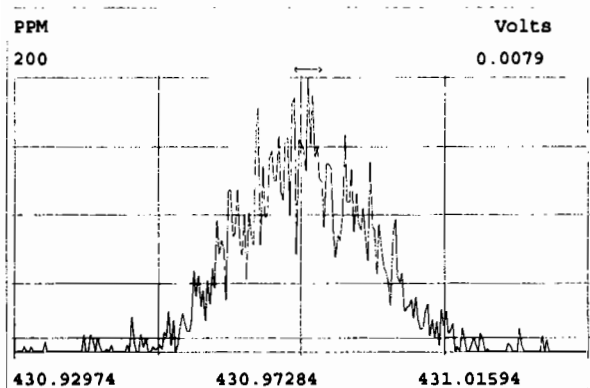
Peak Locate Examination: 3-JAN-2020:14:49 File:200103D2

Experiment:OCDD_DB5 Function:4 Reference:PFK

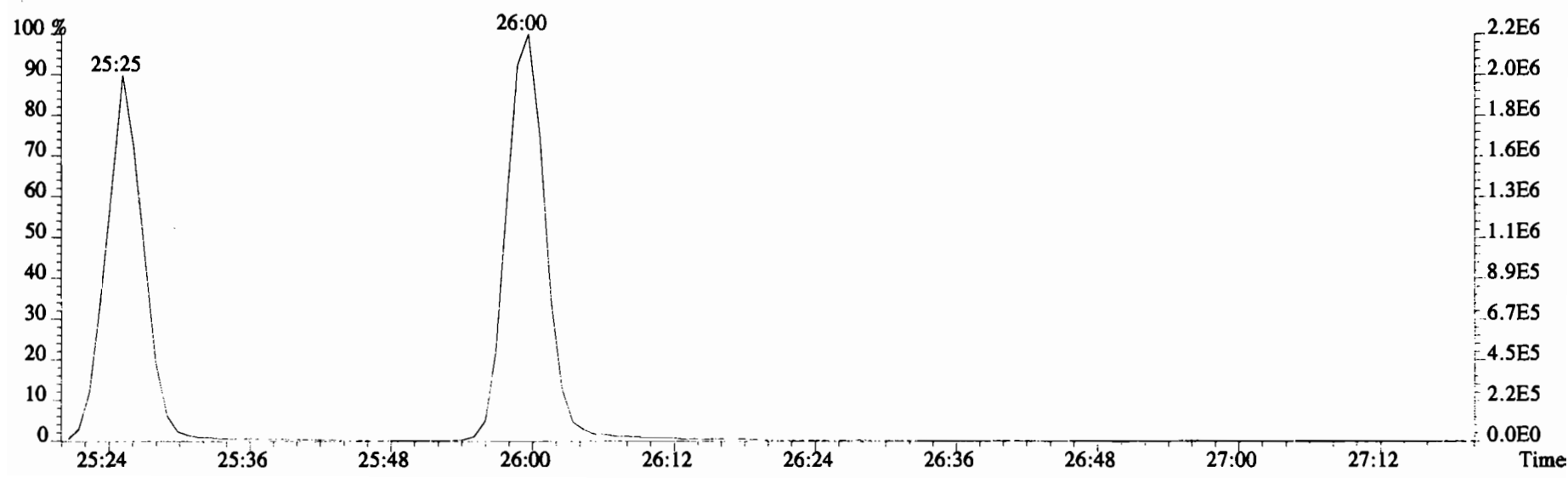
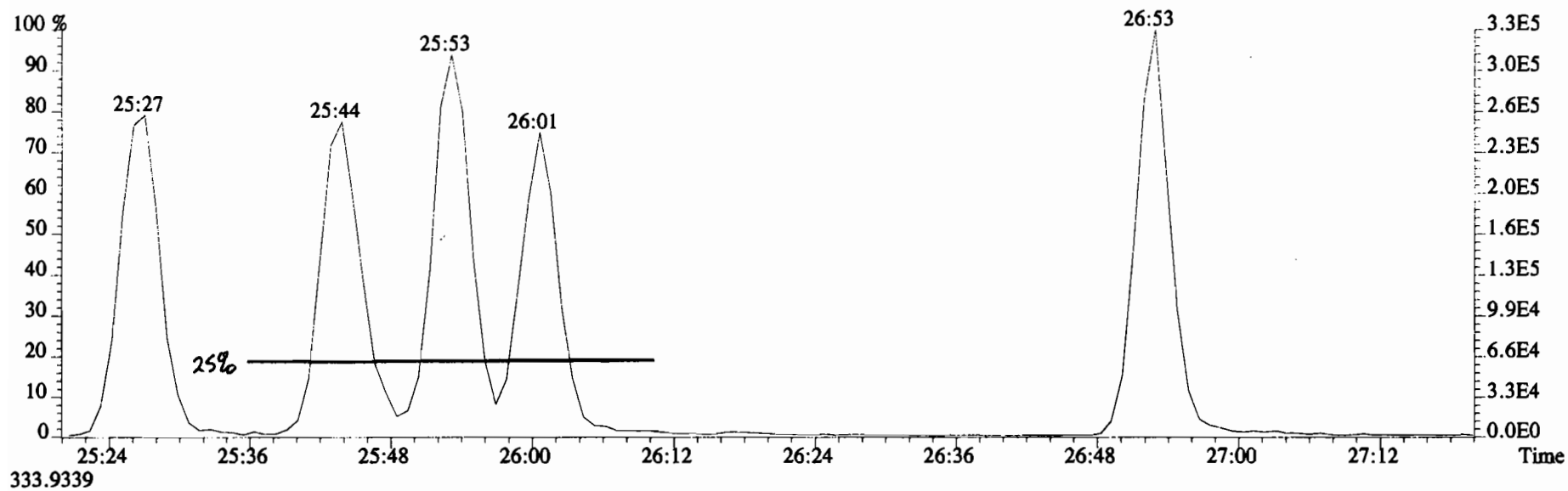


Peak Locate Examination: 3-JAN-2020:14:50 File:200103D2

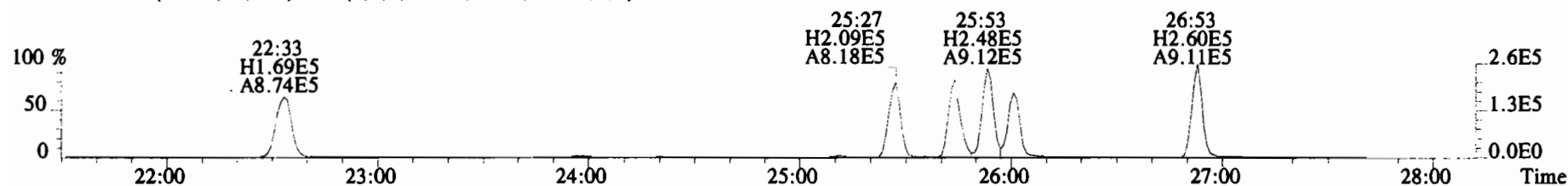
Experiment:OCDD_DB5 Function:5 Reference:PFK



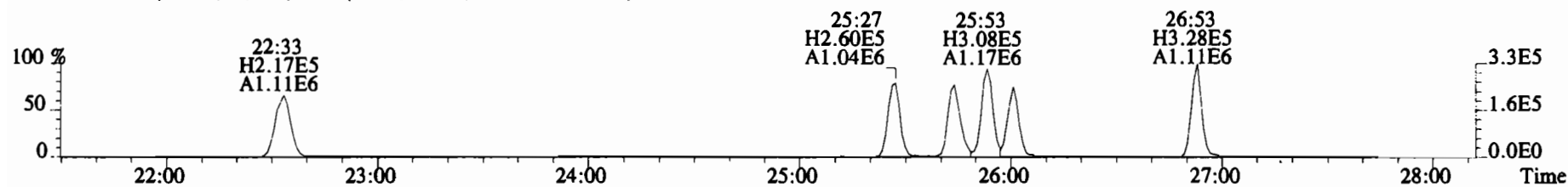
File:200103D2 #1-493 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
321.8936



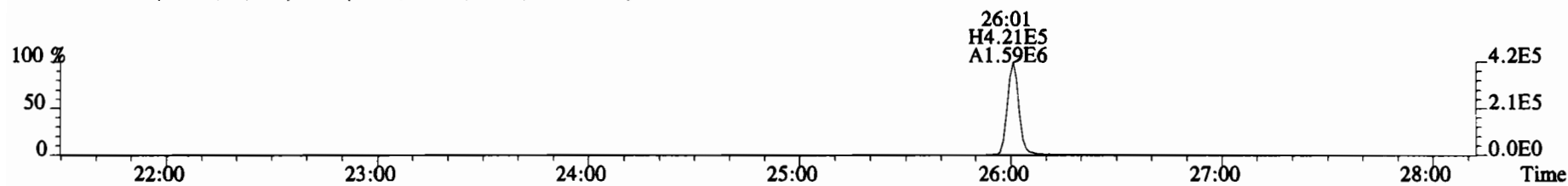
File:200103D2 #1-493 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



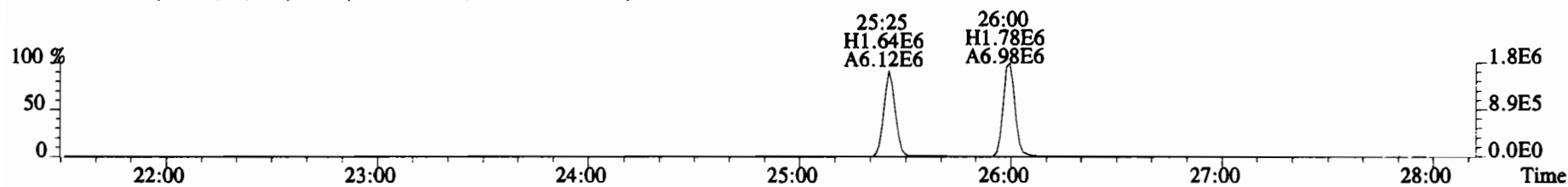
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



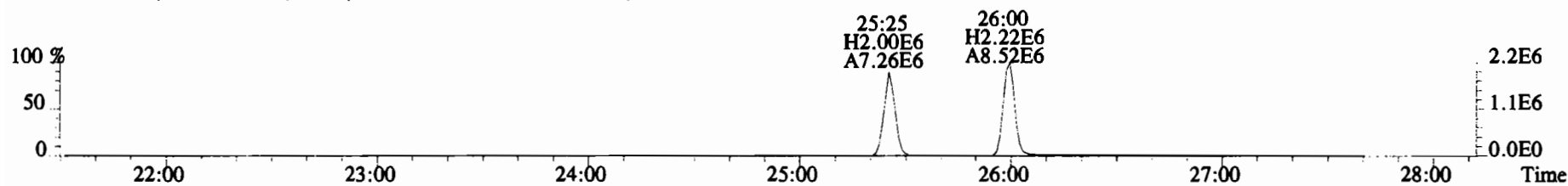
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



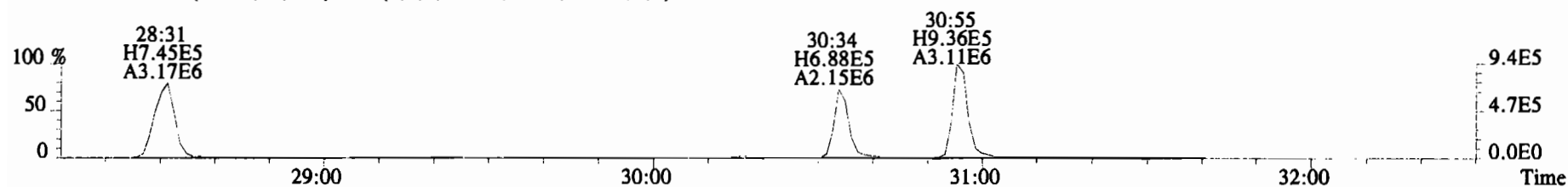
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



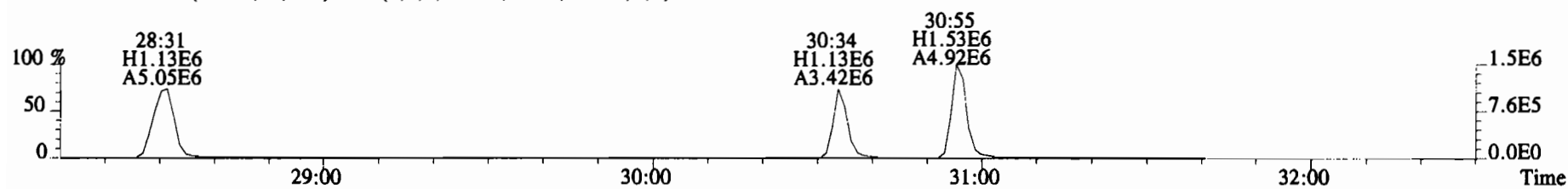
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



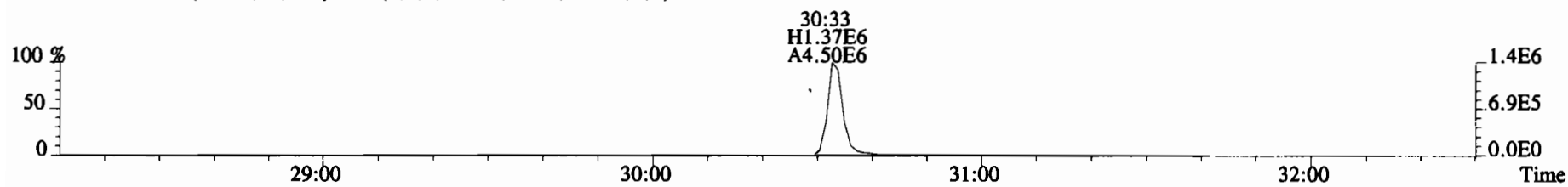
File:200103D2 #1-211 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



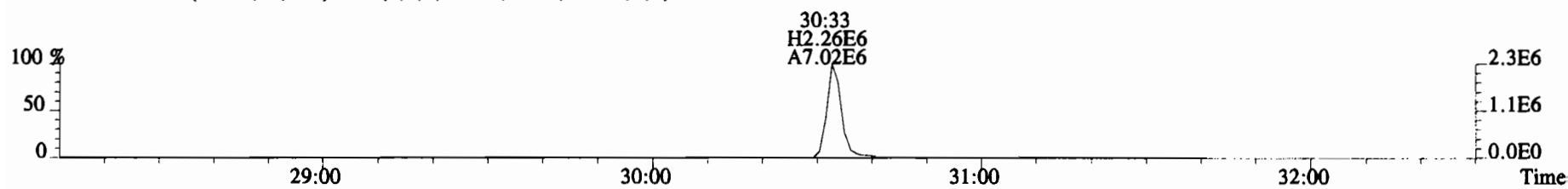
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



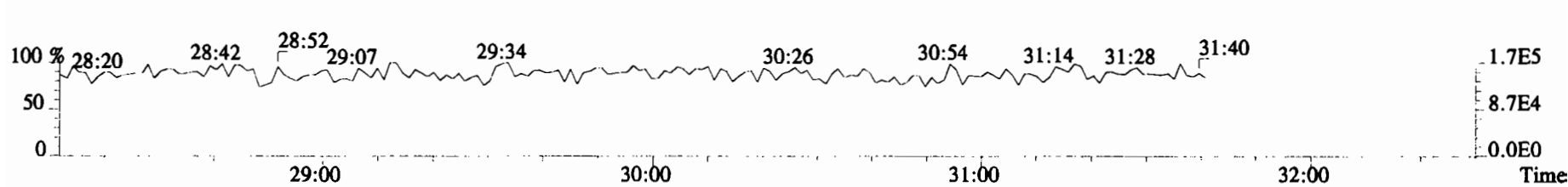
365.8978 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



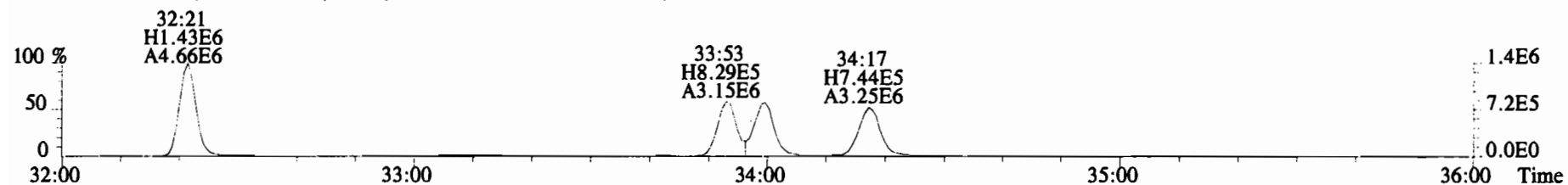
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



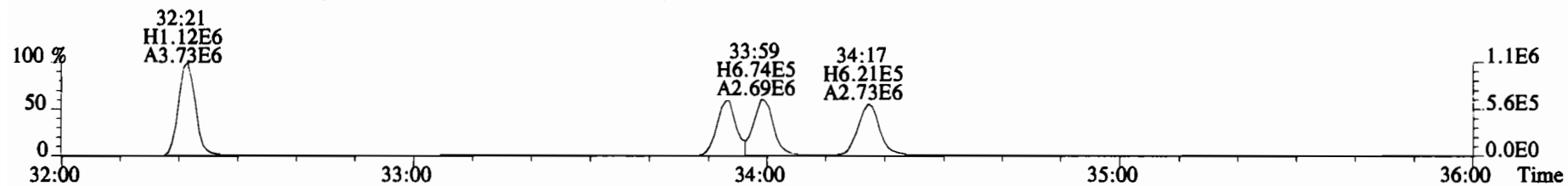
366.9792 F:2



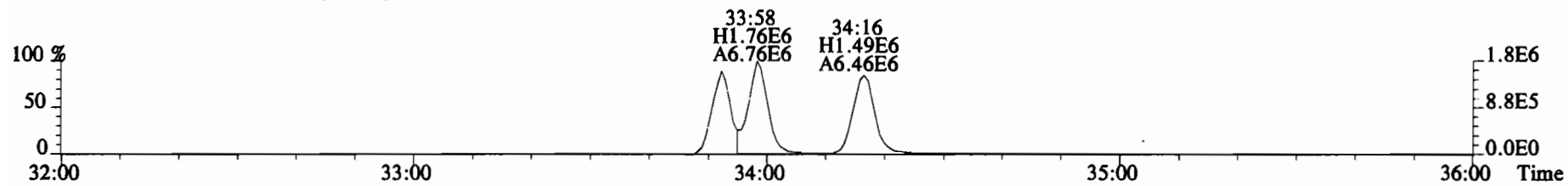
File:200103D2 #1-384 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text: Vista Analytical Laboratory_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



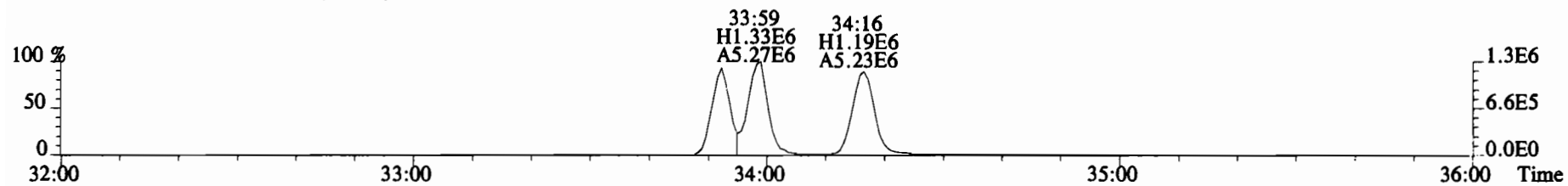
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



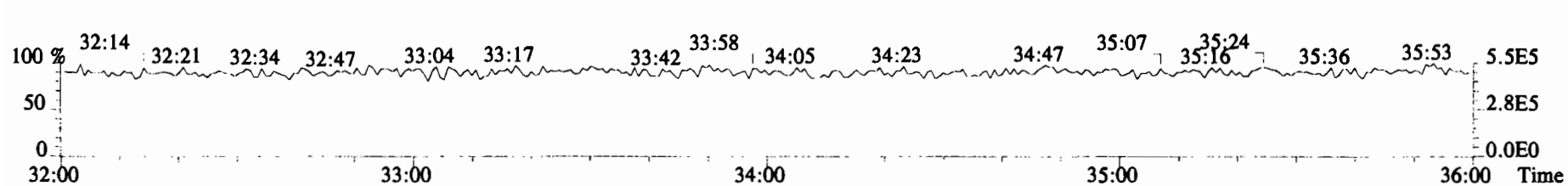
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



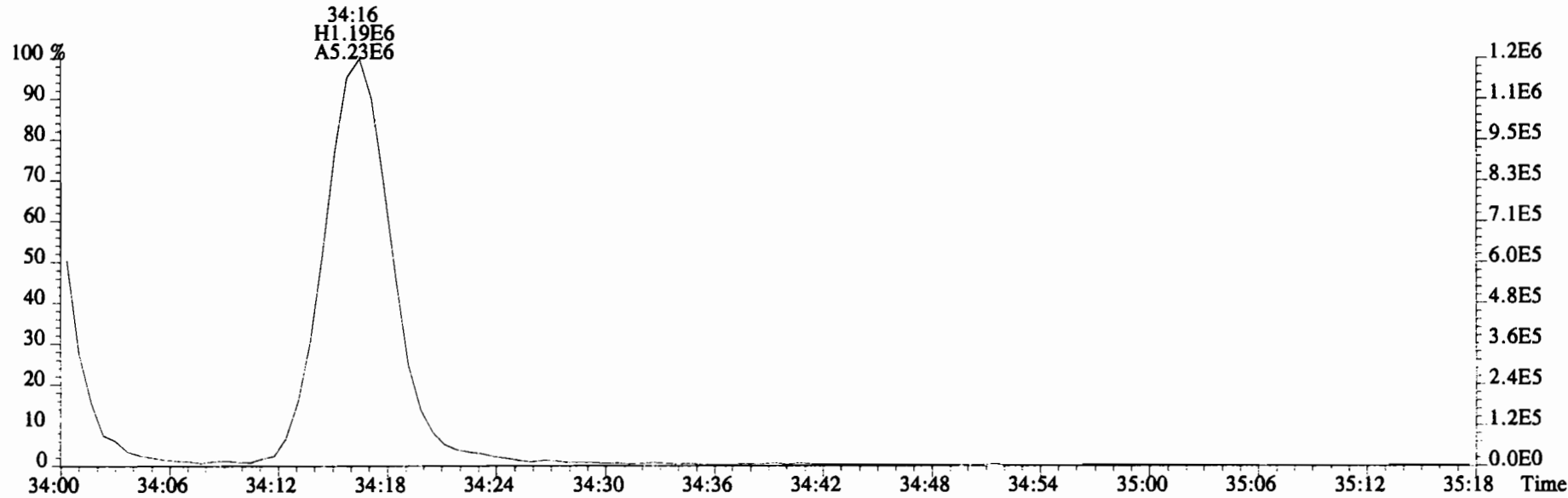
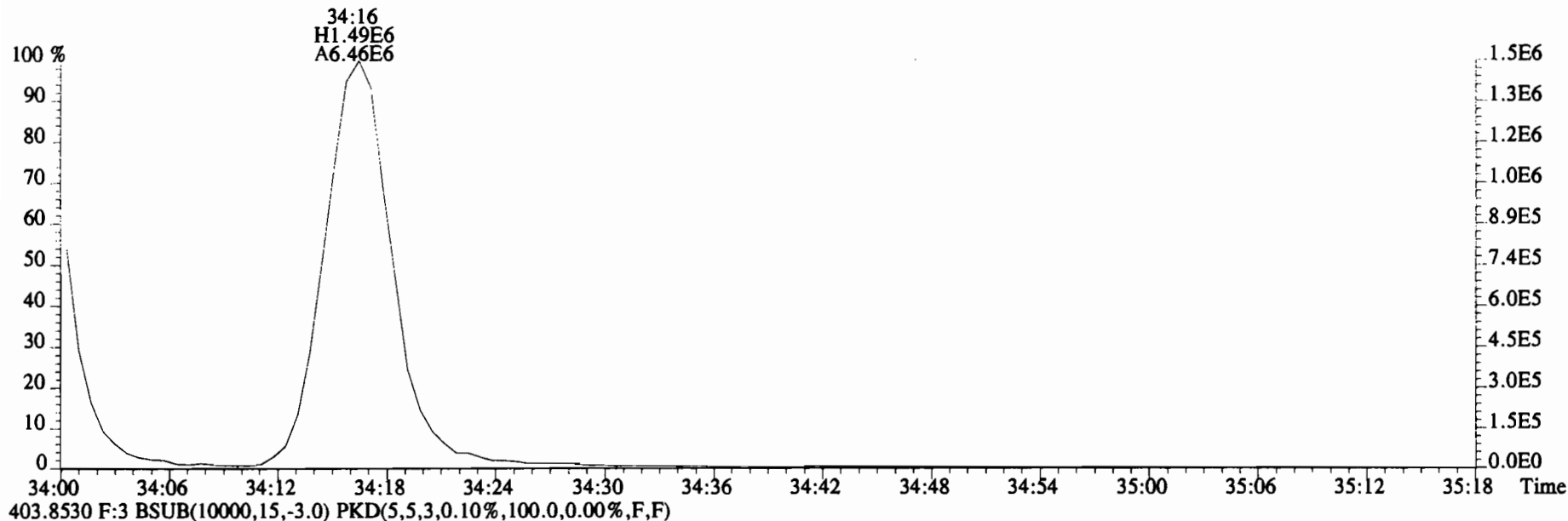
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



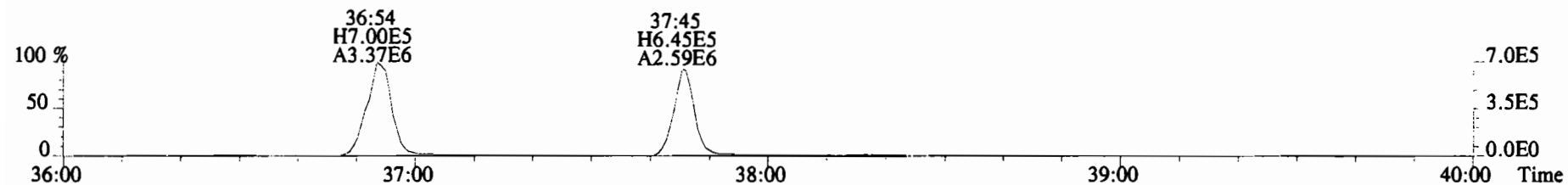
392.9760 F:3



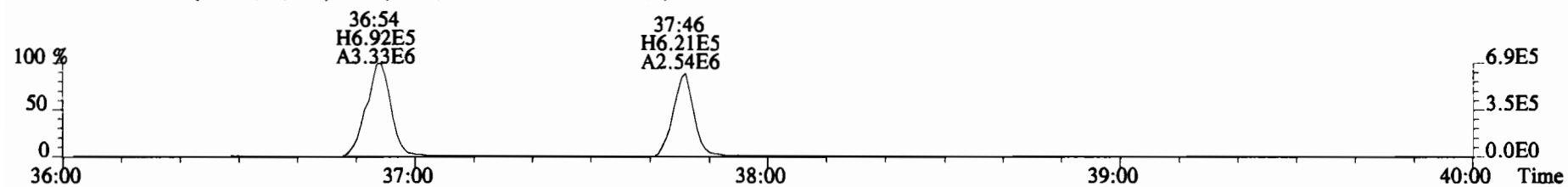
File:200103D2 #1-384 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



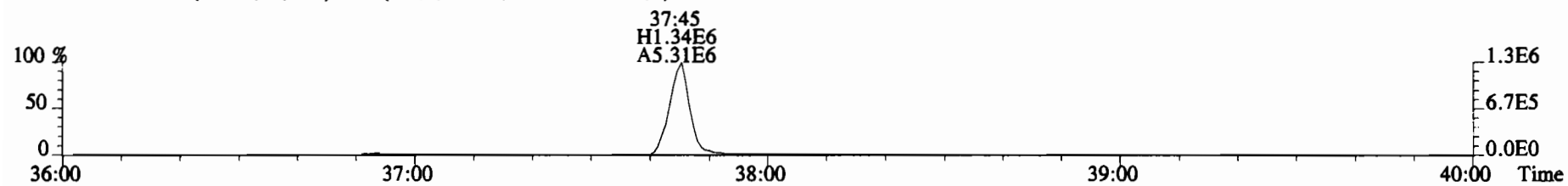
File:200103D2 #1-356 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



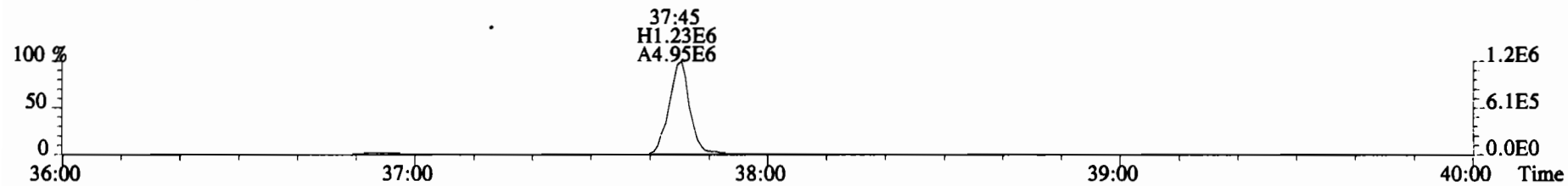
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



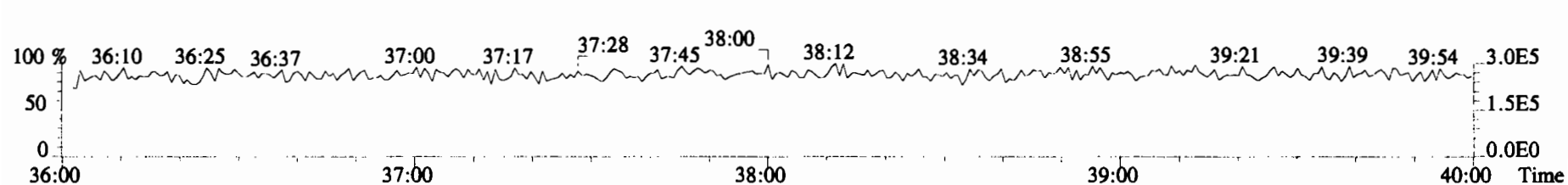
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



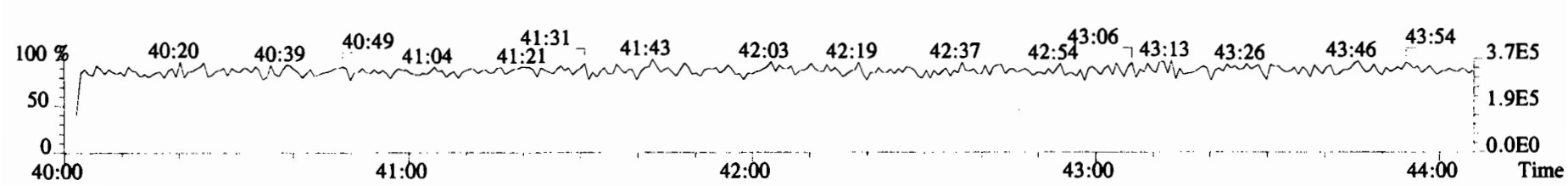
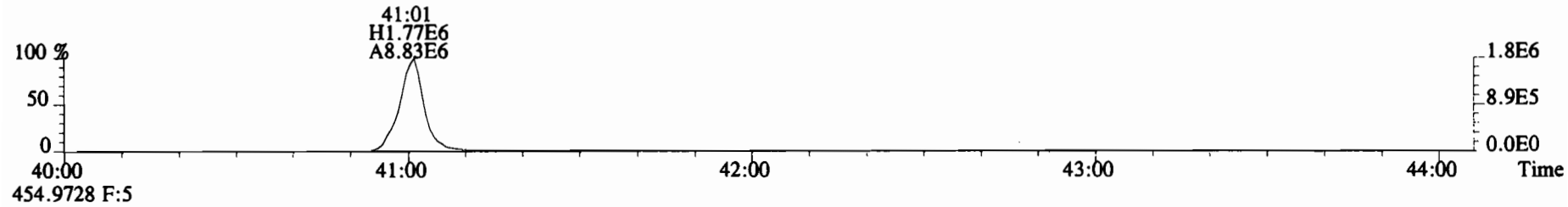
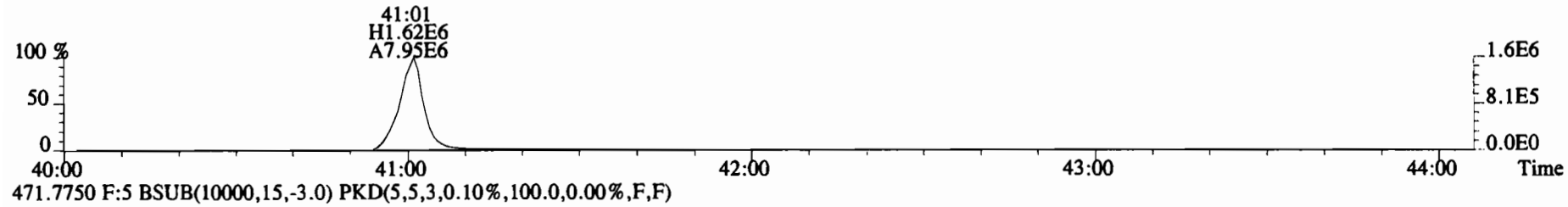
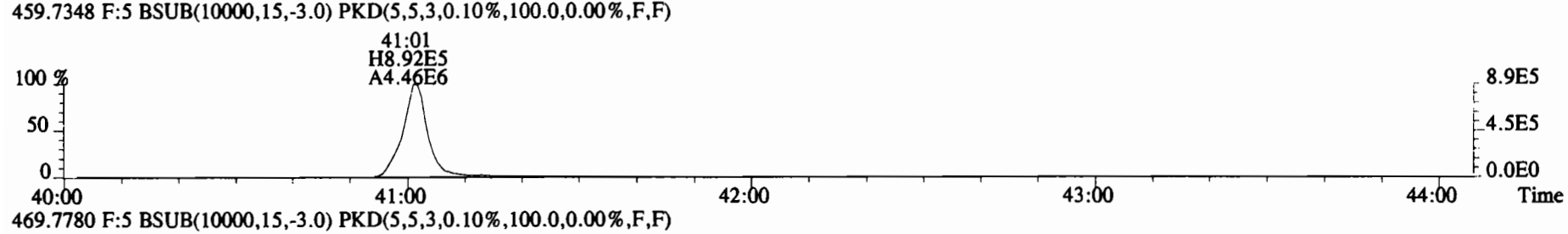
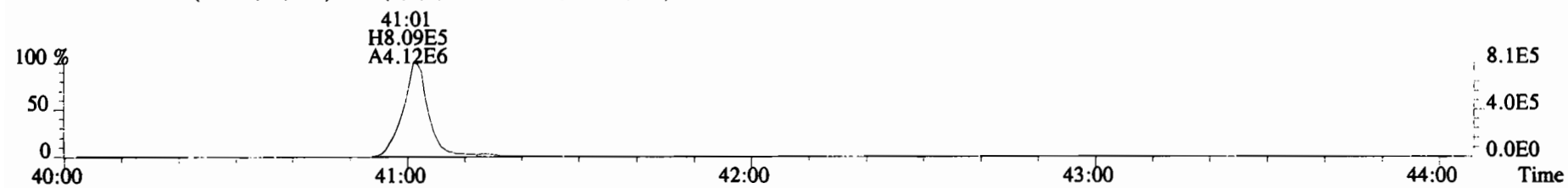
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



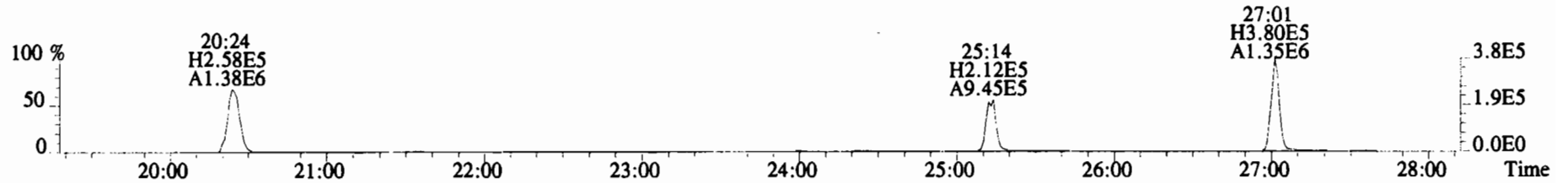
454.9728 F:4



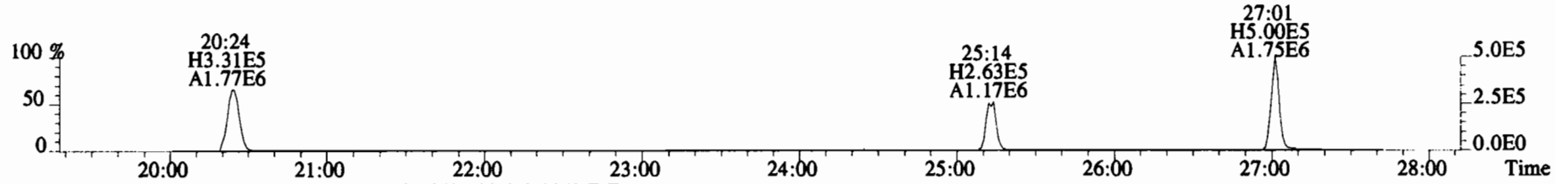
File:200103D2 #1-432 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



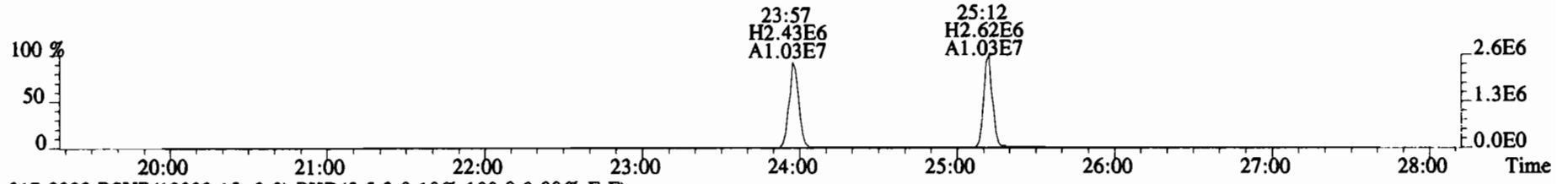
File:200103D2 #1-493 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



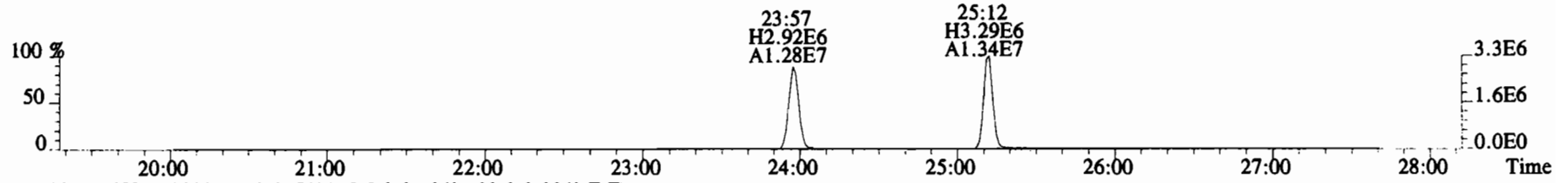
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



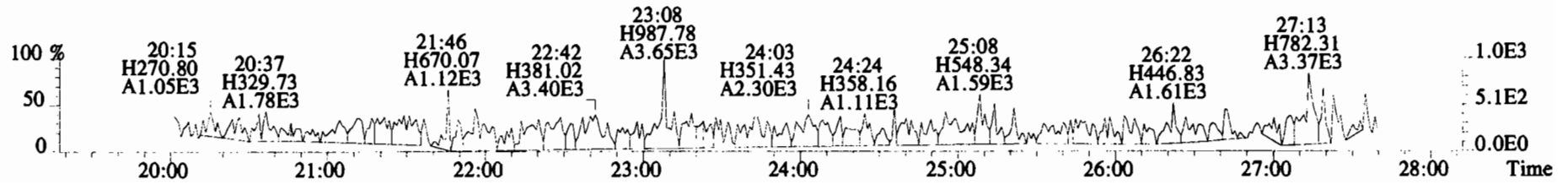
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



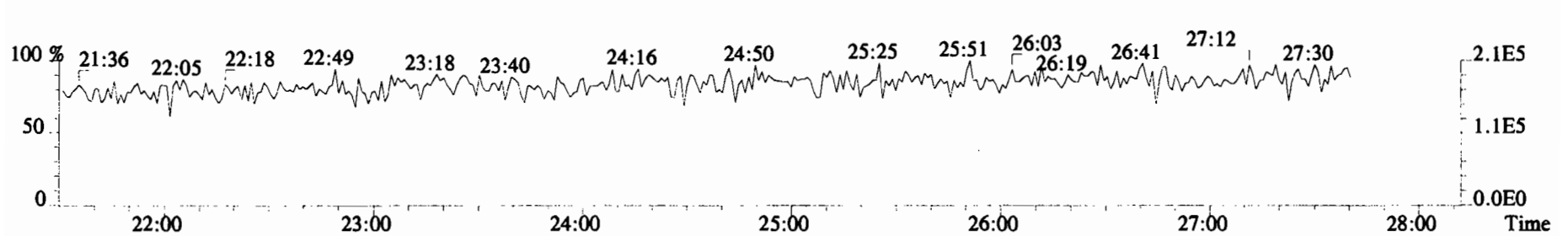
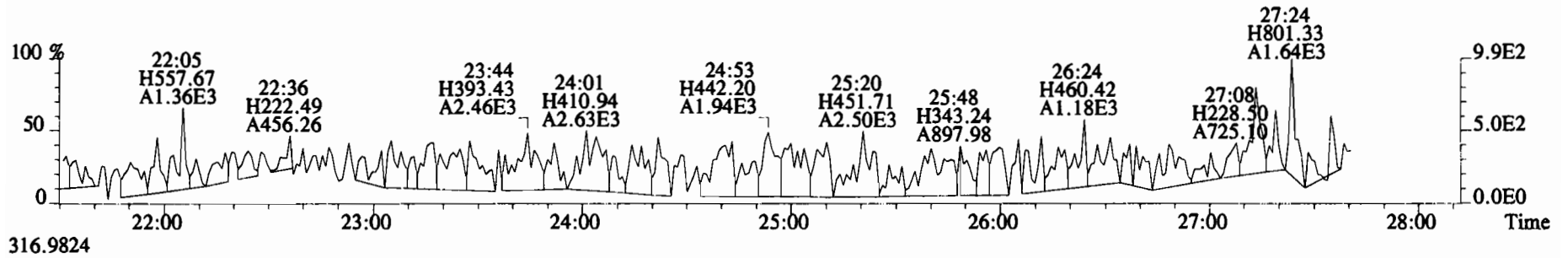
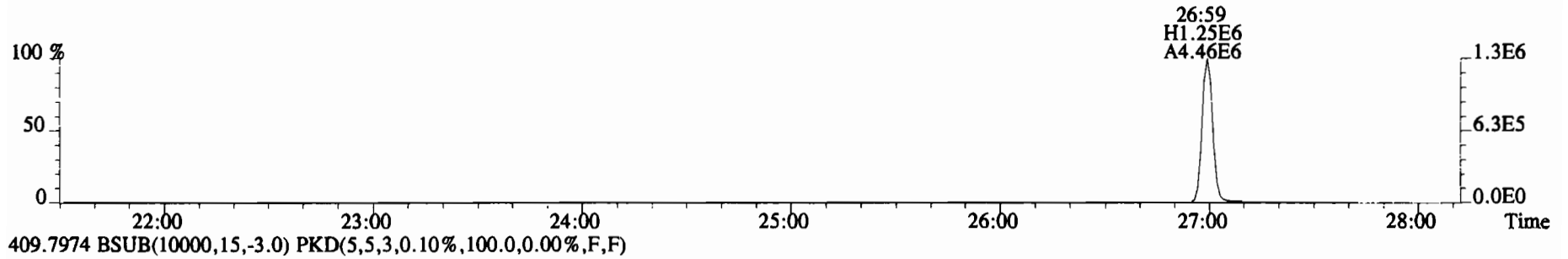
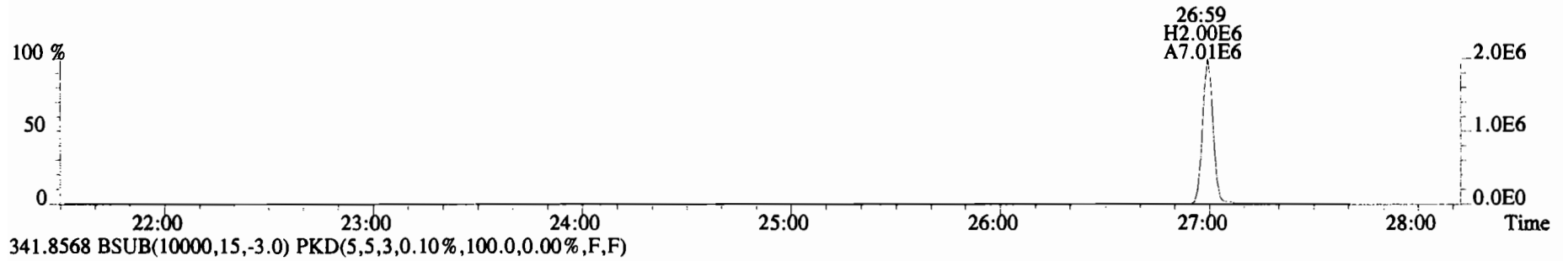
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



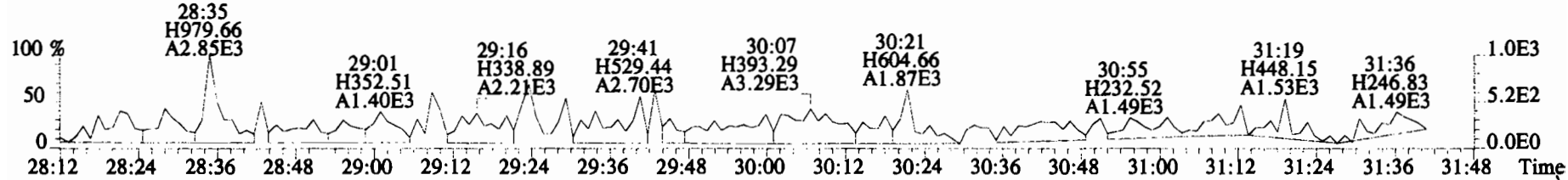
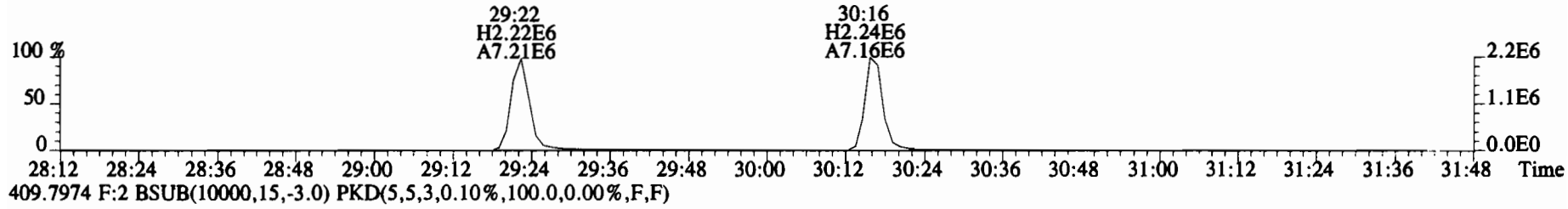
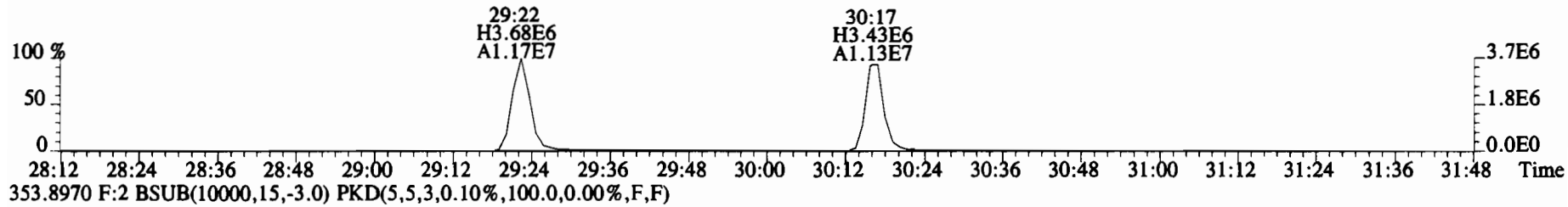
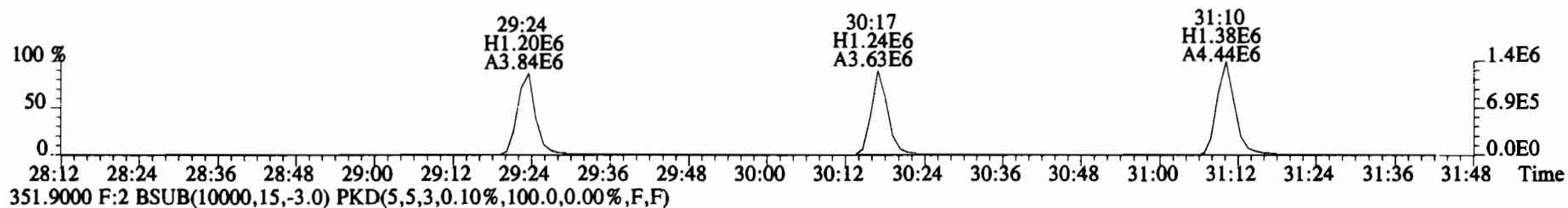
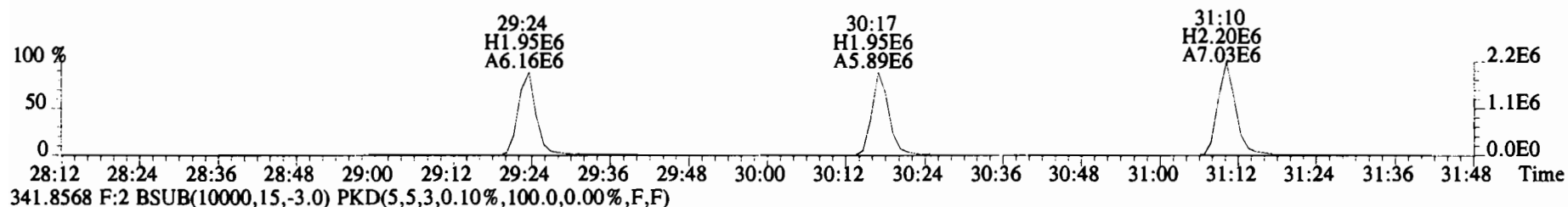
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



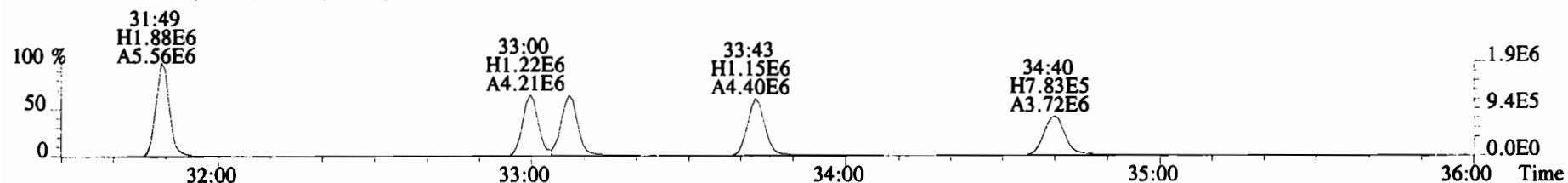
File:200103D2 #1-493 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



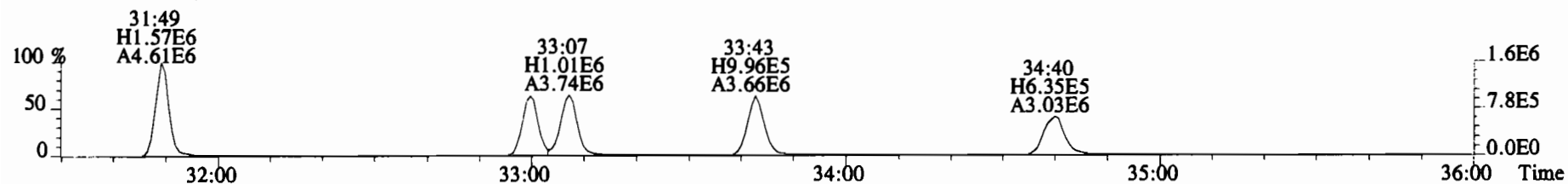
File:200103D2 #1-211 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



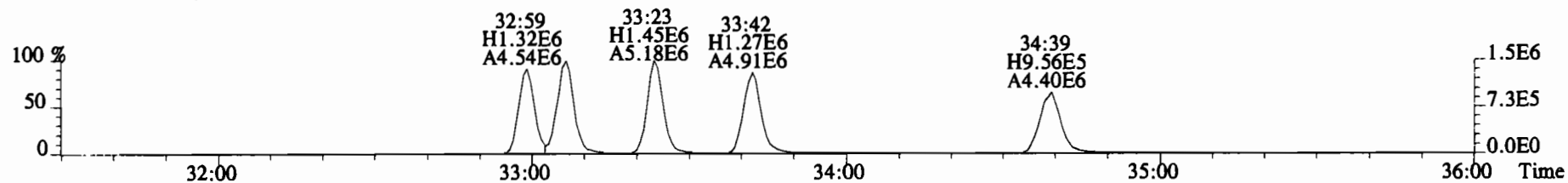
File:200103D2 #1-384 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



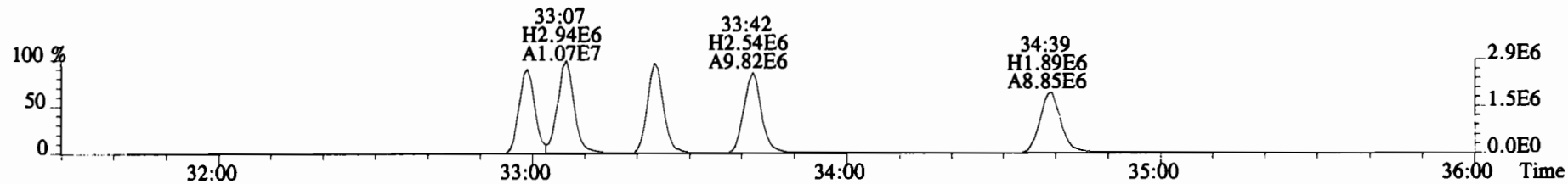
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



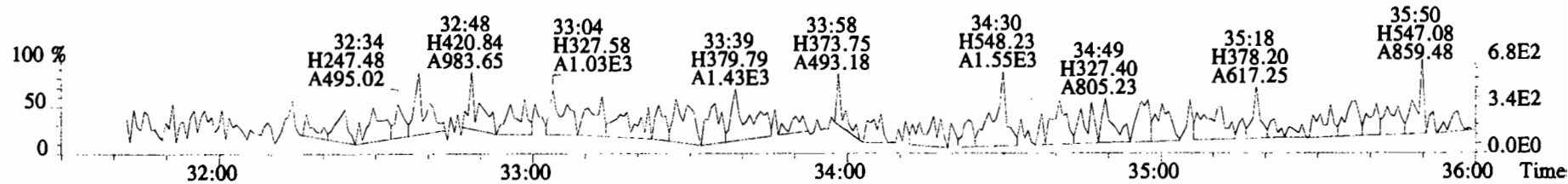
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



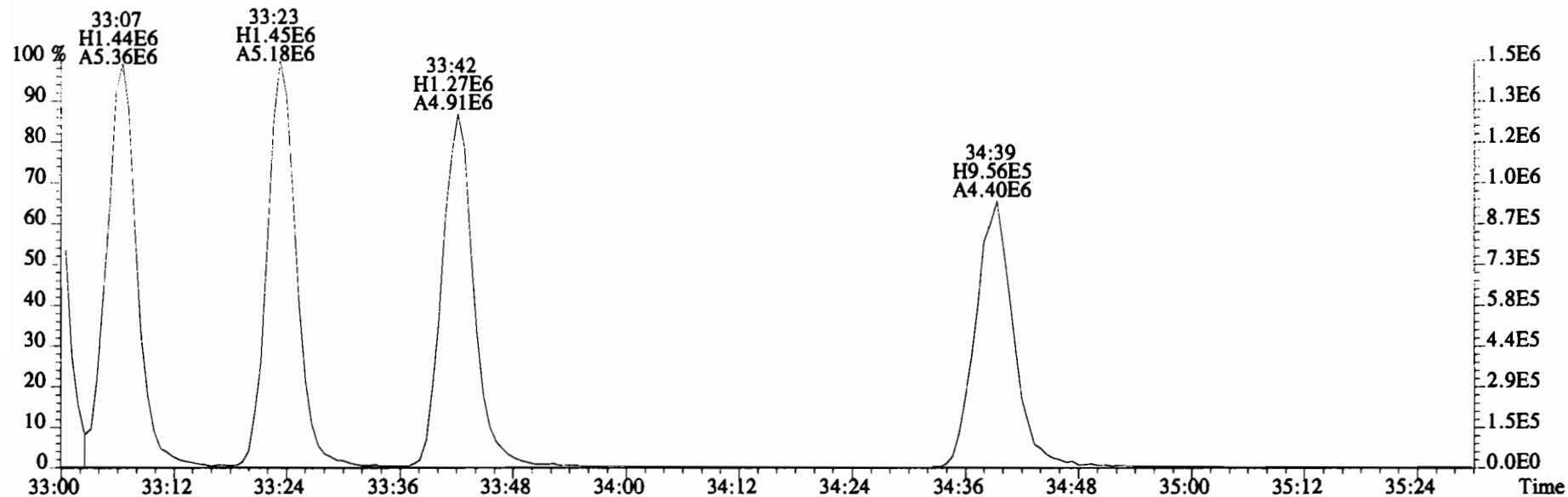
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



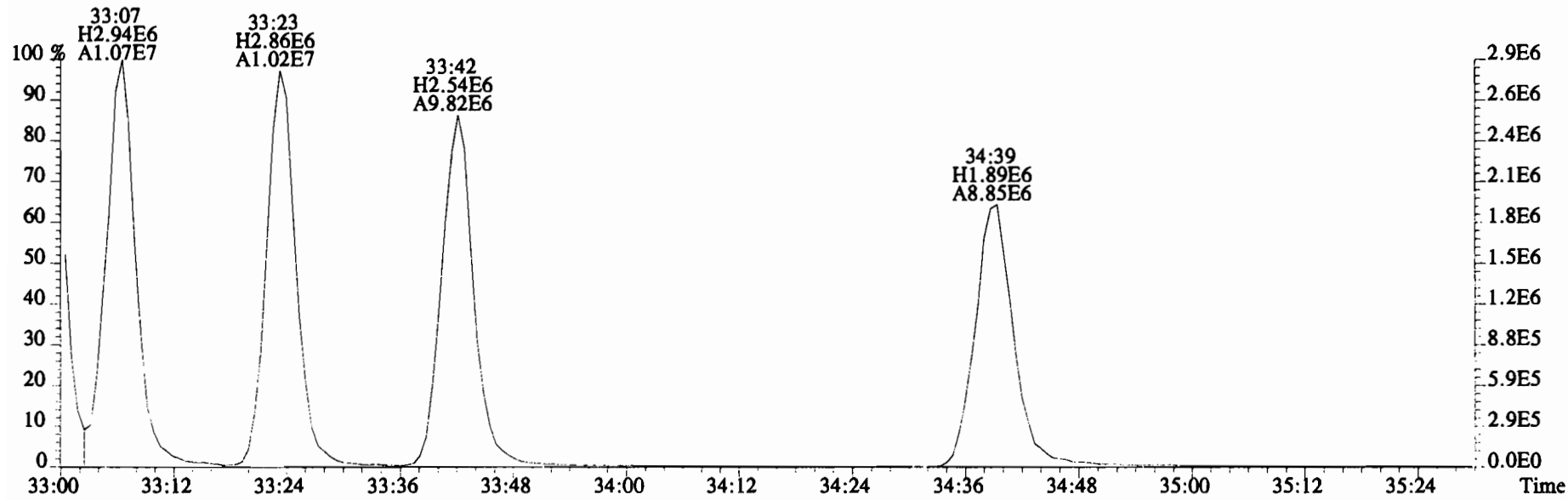
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



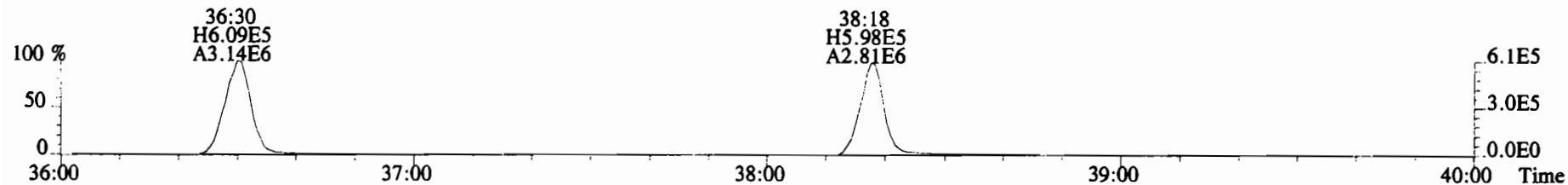
File:200103D2 #1-384 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



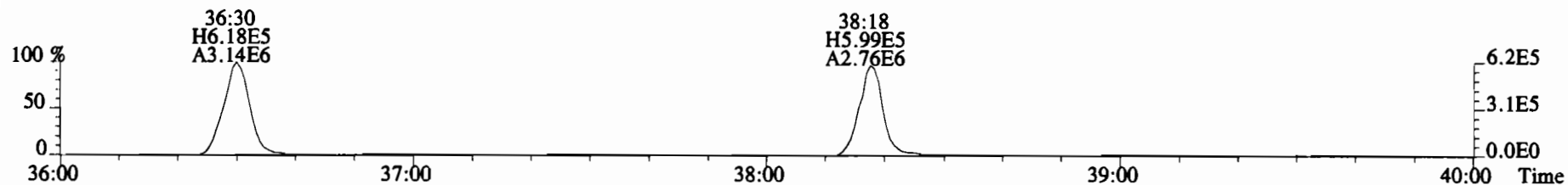
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



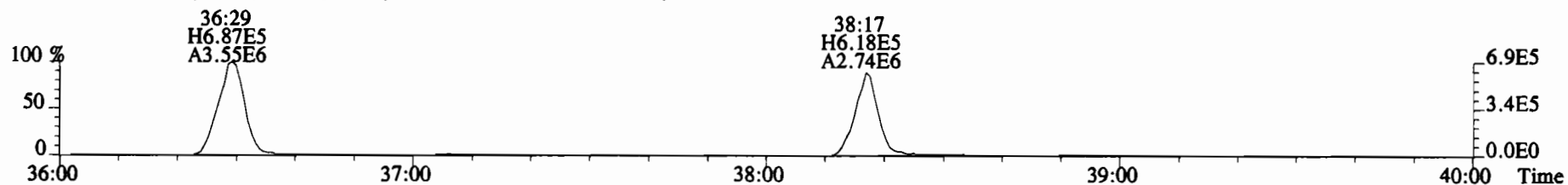
File:200103D2 #1-356 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



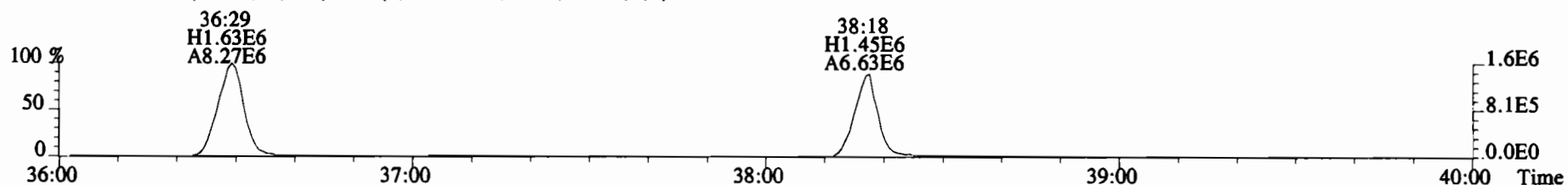
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



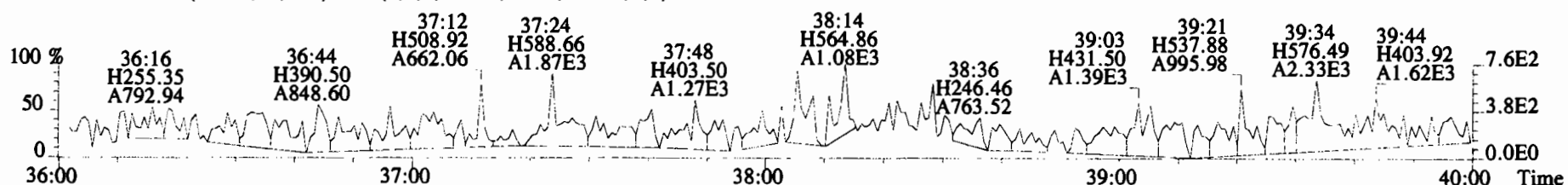
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



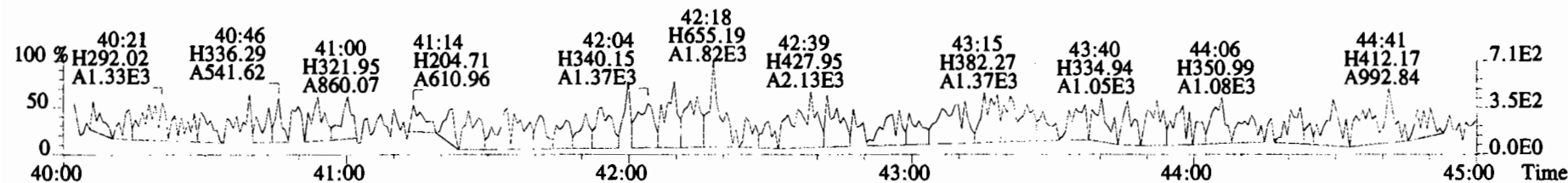
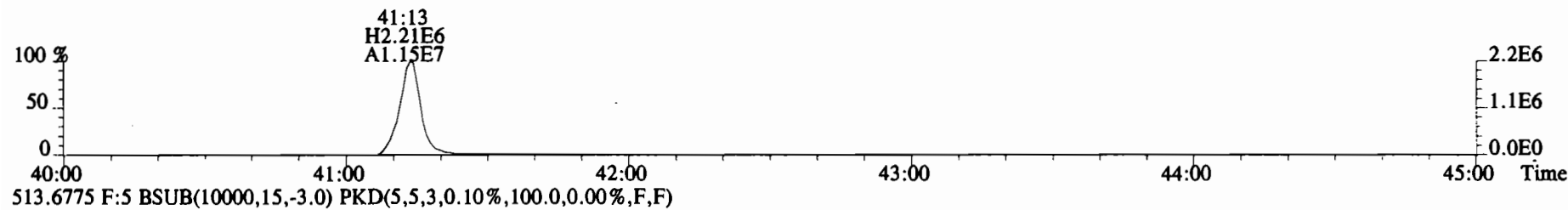
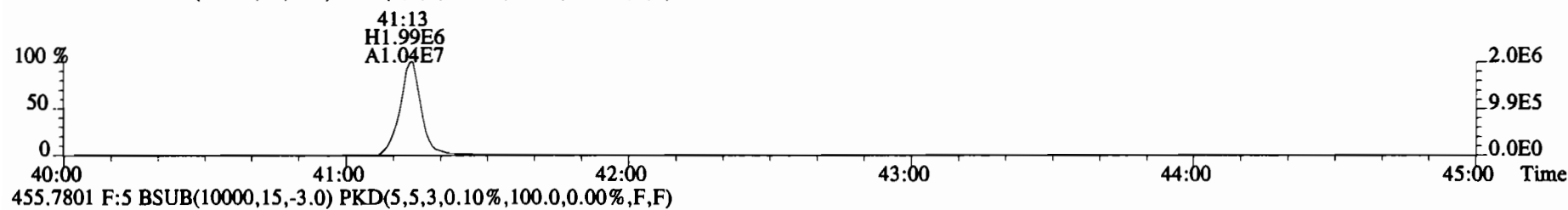
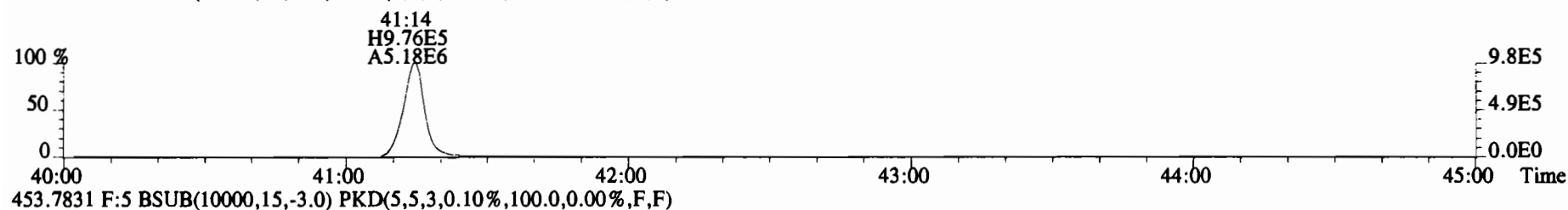
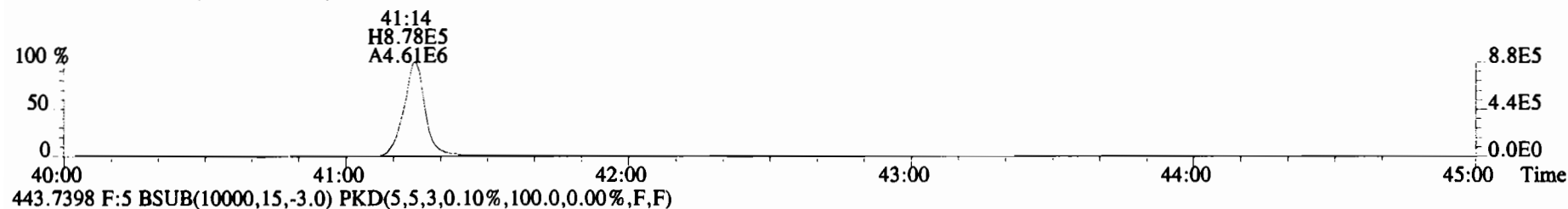
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

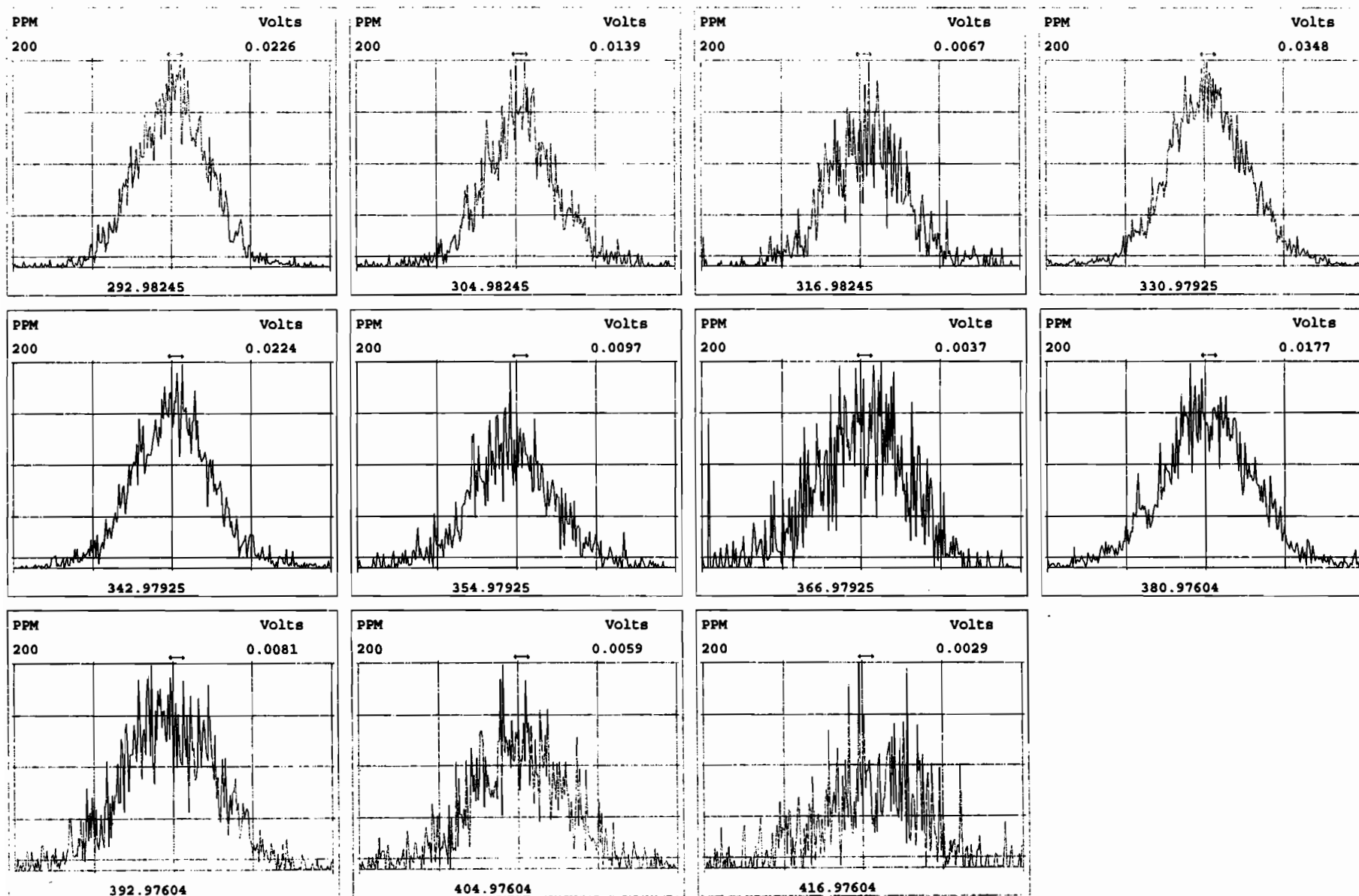


File:200103D2 #1-432 Acq: 3-JAN-2020 14:51:42 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST200103D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



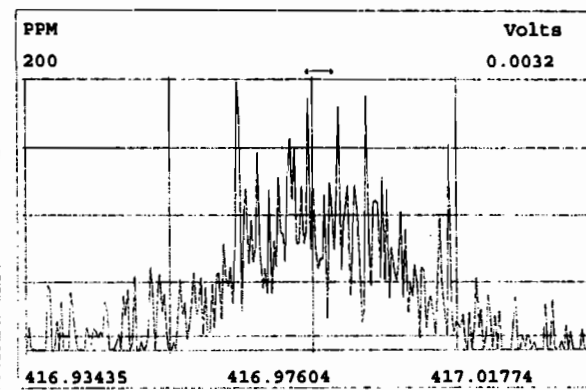
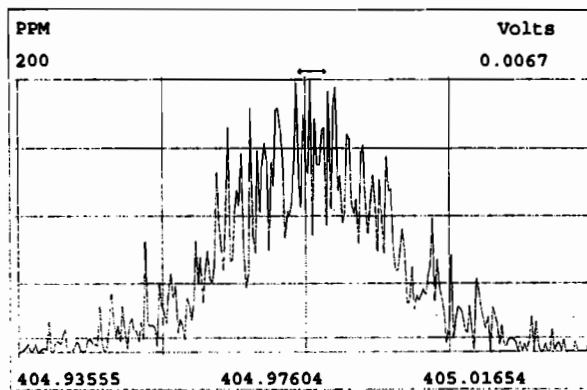
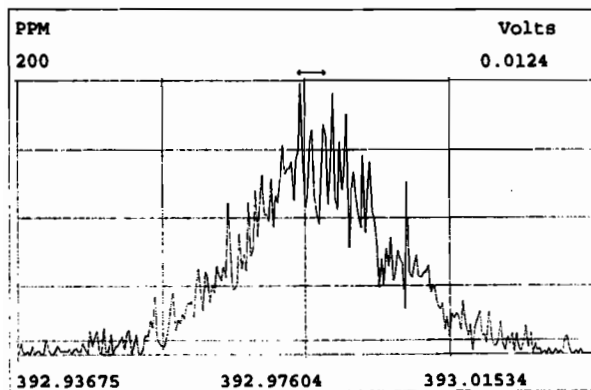
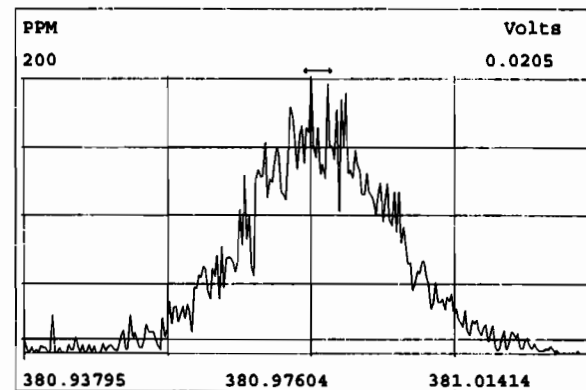
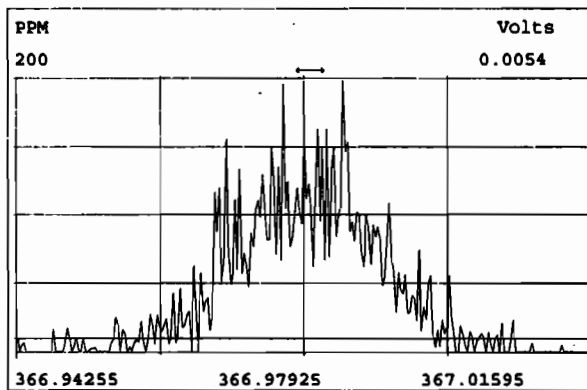
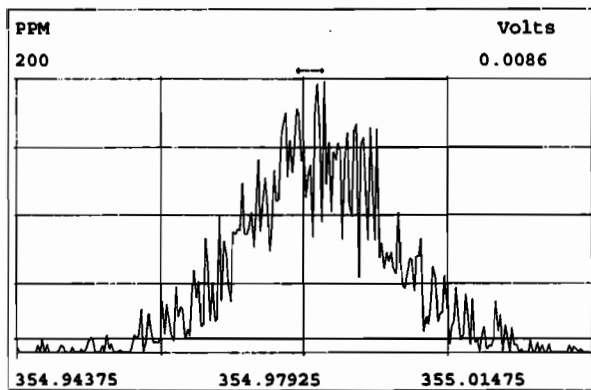
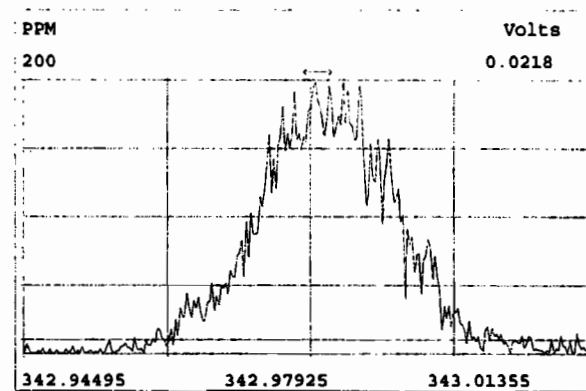
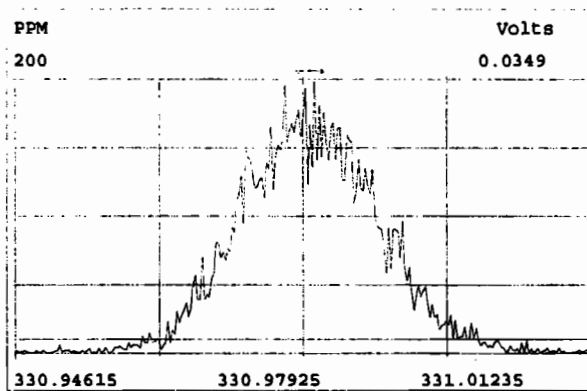
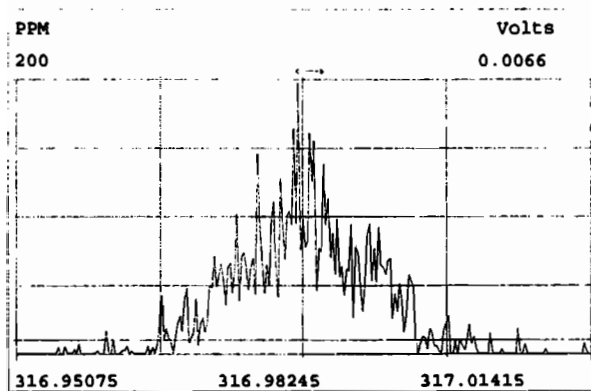
Peak Locate Examination: 4-JAN-2020:03:45 File:RES_CHECK

Experiment:OCDD_DB5 Function:1 Reference:PFK



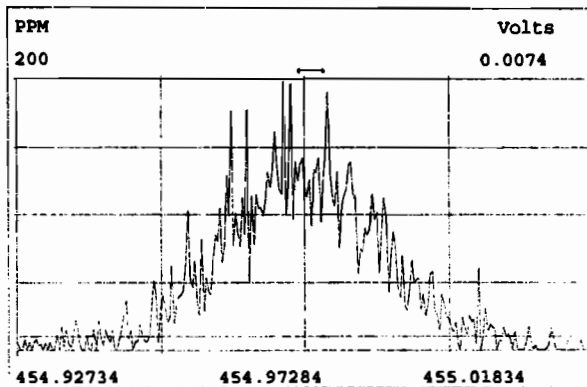
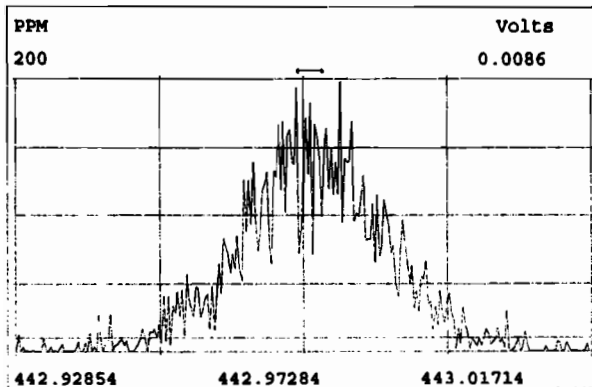
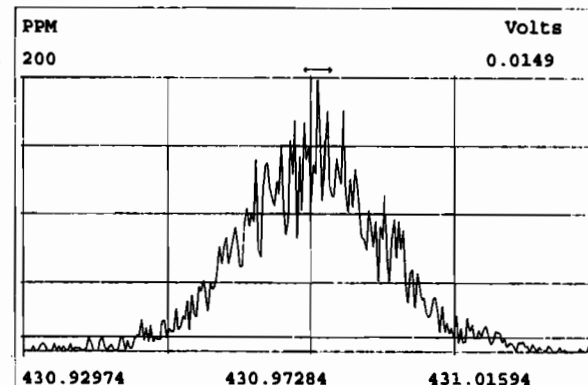
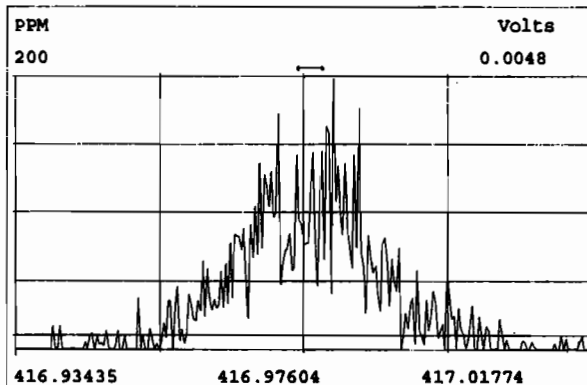
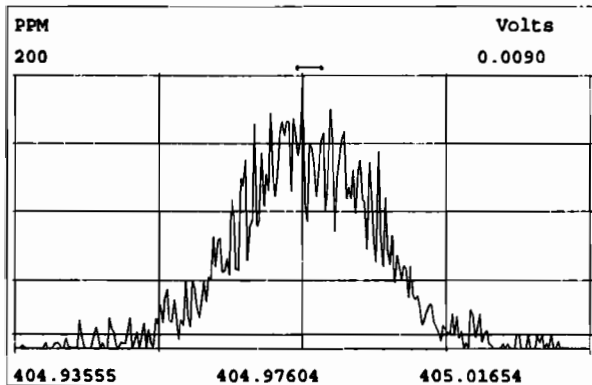
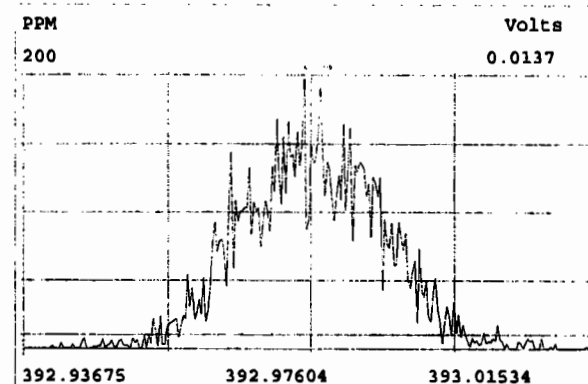
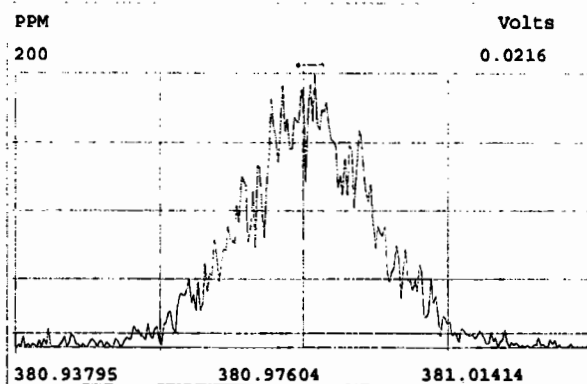
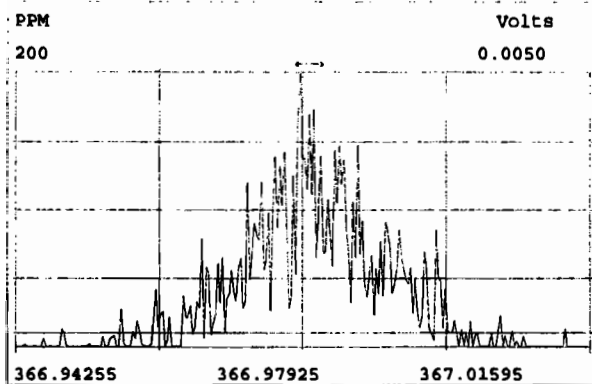
Peak Locate Examination: 4-JAN-2020:03:45 File:RES_CHECK

Experiment:OCDD_DB5 Function:2 Reference:PFK



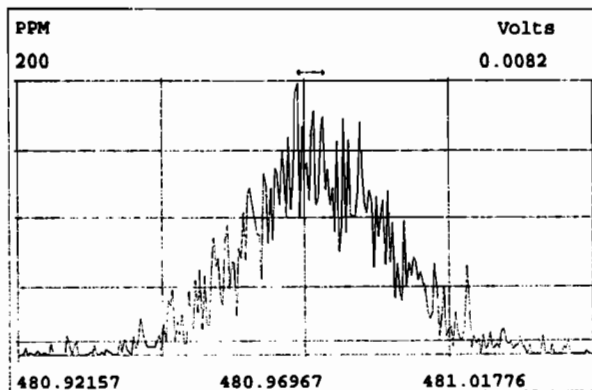
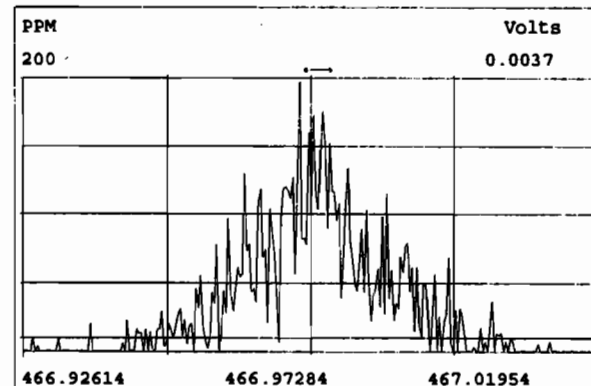
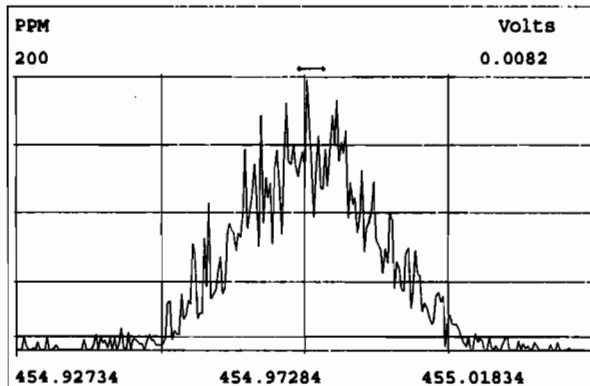
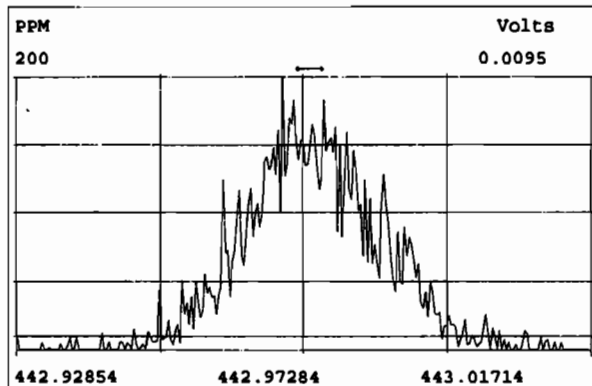
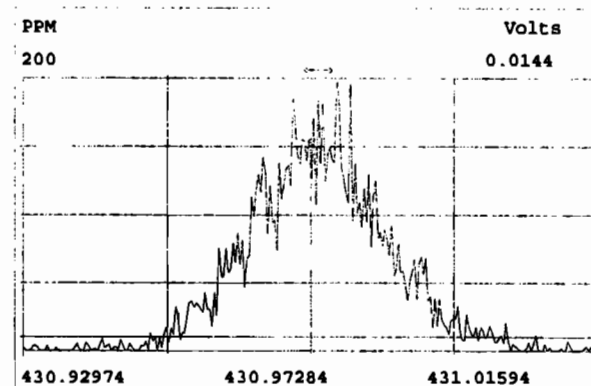
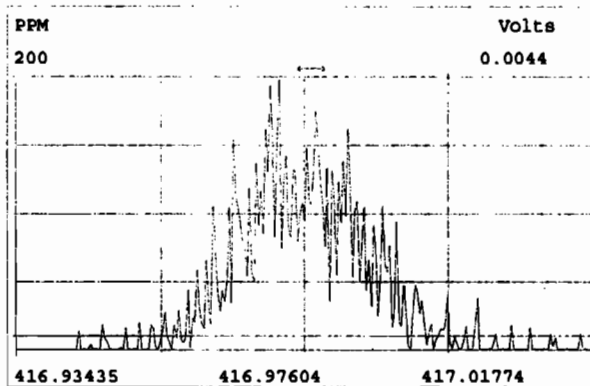
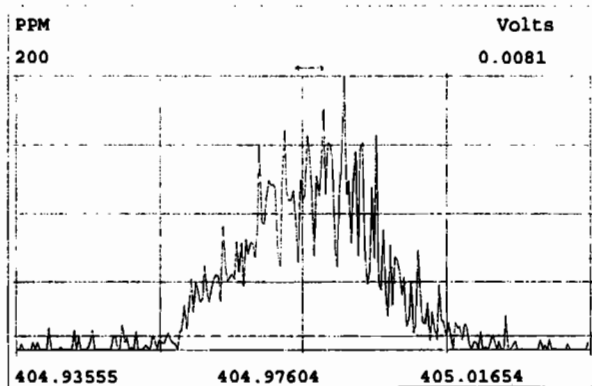
Peak Locate Examination: 4-JAN-2020:03:46 File:RES_CHECK

Experiment:OCDD_DB5 Function:3 Reference:PPK



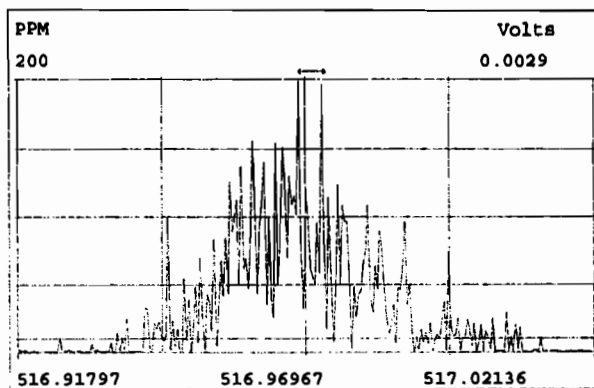
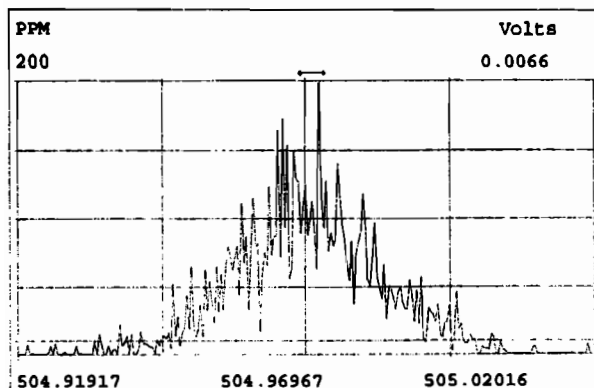
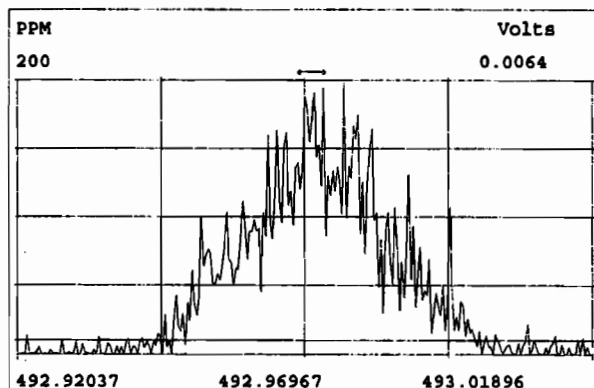
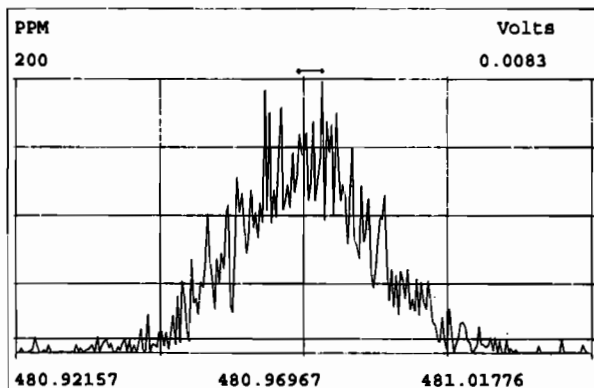
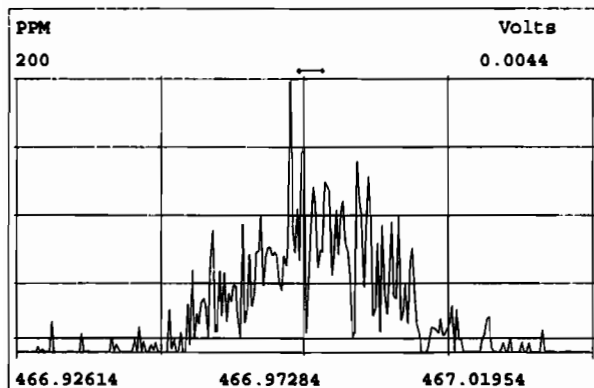
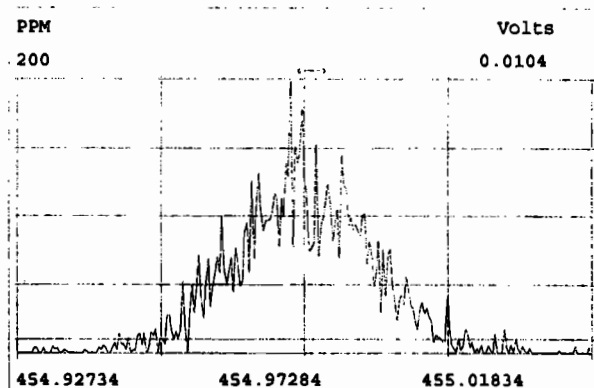
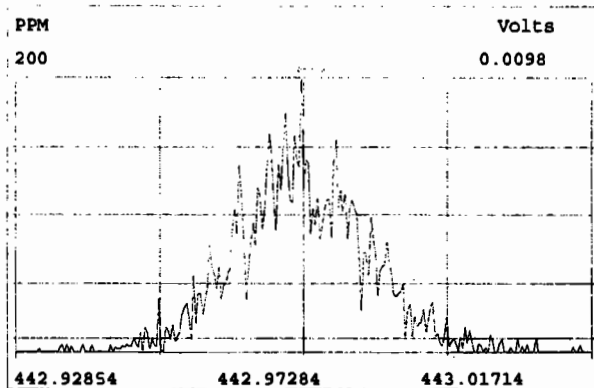
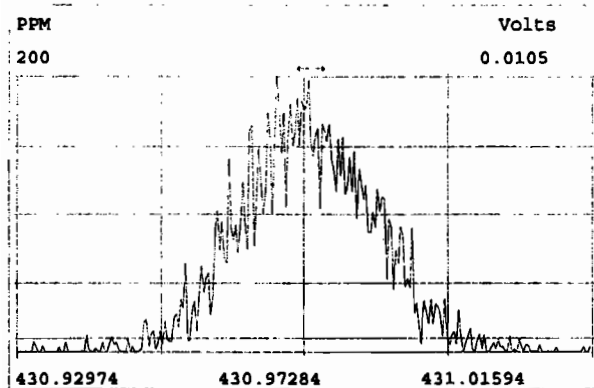
Peak Locate Examination: 4-JAN-2020:03:47 File:RES_CHECK

Experiment:OCDD_DB5 Function:4 Reference:PFK



Peak Locate Examination: 4-JAN-2020:03:48 File:RES_CHECK

Experiment:OCDD_DB5 Function:5 Reference:PPK



HKMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST191122 K4-1

Reviewed By: GRB 11/25/19
Initials & Date

End Calibration ID: N/A

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> N/A
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input type="checkbox"/> N/A	<input type="checkbox"/>
First and last eluters present?	<input type="checkbox"/> N/A	<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>EL</u>	<u>EL</u>
Run Log:		
- 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>EL</u>	

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input checked="" type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> N/A
GC Break <20%	<input checked="" type="checkbox"/>	
8280 CS1 End Standard:		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> N/A

Comments:

Dataset: U:\VG11.PRO\Results\191122K4\191122K4-2.qld

Last Altered: Monday, November 25, 2019 08:21:29 Pacific Standard Time

Printed: Monday, November 25, 2019 08:22:38 Pacific Standard Time

EL 11/25/19
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: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	2 Hexachlorobenzene	1.22e6	1.23	NO	0.874	1.000	22.82	22.81	1.001	1.001	NO	53.73	107 75-125%	0.00435	53.73
2	3 Alpha-BHC	3.65e5	2.18	NO	0.760	1.000	23.39	23.37	1.002	1.001	NO	54.66	109	0.0840	54.66
3	4 Lindane (gamma-BHC)	2.55e5	2.14	NO	0.744	1.000	26.63	26.63	1.001	1.001	NO	54.80	110	0.151	54.80
4	5 Beta-BHC	2.23e5	2.14	NO	0.896	1.000	28.70	28.72	1.000	1.001	NO	54.10	108	0.134	54.10
5	6 Delta-BHC	2.41e5	2.11	NO	0.837	1.000	30.41	30.41	1.001	1.001	NO	54.21	108	0.123	54.21
6	7 Heptachlor	1.35e5	1.14	NO	0.968	1.000	28.85	28.85	1.001	1.001	NO	51.94	104	0.0636	51.94
7	9 Aldrin	2.27e5	1.62	NO	1.02	1.000	30.97	30.97	1.001	1.001	NO	52.78	106	0.0546	52.78
8	10 Oxychlordan	4.70e4	1.60	NO	0.992	1.000	33.58	33.58	1.001	1.001	NO	51.72	103	0.245	51.72
9	11 cis-Heptachlor Epoxide	5.87e4	1.57	NO	1.00	1.000	34.36	34.37	1.001	1.001	NO	53.68	107	0.183	53.68
10	12 trans-Heptachlor Epoxide	1.66e4	1.50	NO	0.255	1.000	34.85	34.85	1.015	1.015	NO	59.61	119	0.721	59.61
11	13 trans-Chlordane (gamma)	4.87e4	1.47	NO	1.08	1.000	35.27	35.28	1.001	1.001	NO	53.24	106	0.220	53.24
12	14 trans-Nonachlor	4.90e4	1.63	NO	1.00	1.000	35.46	35.47	1.001	1.001	NO	52.31	105	0.217	52.31
13	15 cis-Chlordane	5.20e4	1.63	NO	0.981	1.000	35.94	35.95	1.014	1.014	NO	56.68	113	0.222	56.68
14	16 Endosulfan I (alpha)	3.66e4	1.59	NO	1.11	1.000	36.06	36.06	1.001	1.001	NO	49.20	98.4	0.256	49.20
15	18 2,4'-DDE	1.13e6	1.33	NO	0.854	1.000	35.93	35.95	1.000	1.001	NO	53.19	106	0.0642	53.19
16	19 4,4'-DDE	7.83e5	1.36	NO	0.873	1.000	37.02	37.01	1.000	1.000	NO	53.38	107	0.0857	53.38
17	20 Dieldrin	1.27e5	1.57	NO	0.957	1.000	37.52	37.51	1.000	1.000	NO	53.51	107	0.122	53.51
18	21 Endrin	5.66e4	1.55	NO	0.933	1.000	38.89	38.92	1.000	1.001	NO	52.60	105	0.274	52.60
19	22 cis-Nonachlor	5.85e4	1.63	NO	0.956	1.000	39.20	39.20	1.000	1.000	NO	53.50	107	0.259	53.50
20	23 Endosulfan II (beta)	1.93e4	1.58	NO	1.06	1.000	39.92	39.93	1.000	1.000	NO	54.65	109	0.815	54.65
21	24 2,4'-DDD	9.96e5	1.61	NO	0.915	1.000	38.15	38.17	1.000	1.000	NO	55.09	110	0.135	55.09
22	25 2,4'-DDT	5.65e5	1.62	NO	0.921	1.000	39.30	39.29	1.000	1.000	NO	52.72	105	0.237	52.72
23	26 4,4'-DDD	8.63e5	1.60	NO	1.00	1.000	39.42	39.41	1.000	1.000	NO	54.63	109	0.148	54.63
24	27 4,4'-DDT	4.27e5	1.64	NO	0.986	1.000	40.49	40.48	1.000	1.000	NO	54.10	108	0.267	54.10
25	28 Endosulfan Sulfate	2.80e4	1.59	NO	0.928	1.000	41.65	41.67	1.000	1.000	NO	52.35	105	0.441	52.35
26	29 4,4'-Methoxychlor	4.10e5	6.12	NO	1.14	1.000	43.52	43.52	1.000	1.000	NO	52.48	105	0.142	52.48
27	30 Mirex	2.47e5	1.50	NO	0.932	1.000	44.08	44.07	1.000	1.000	NO	51.49	103	0.142	51.49
28	31 Endrin Aldehyde	5.45e4	0.63	NO	0.887	1.000	41.07	41.07	1.000	1.000	NO	54.60	109	0.465	54.60
29	32 Endrin Ketone	3.76e4	0.62	NO	0.911	1.000	44.20	44.22	1.000	1.000	NO	51.67	103	0.657	51.67
30	34 13C6-Hexachlorobenzene	1.29e6	1.29	NO	0.691	1.000	22.80	22.80	0.874	0.873	NO	52.12	104 90-150%	0.00505	
31	35 13C6-Alpha-BHC	4.39e5	0.79	NO	0.246	1.000	23.35	23.34	0.895	0.894	NO	49.68	99.4	0.107	

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Printed: Monday, November 25, 2019 08:22:38 Pacific Standard Time

Name: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

#	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)	3.13e5	0.79	NO	0.189	1.000	26.61	26.60	1.020	1.019	NO	46.04	92.1	0.139	
33	37 13C6-Beta-BHC	2.30e5	0.78	NO	0.141	1.000	28.66	28.69	1.098	1.099	NO	45.46	90.9	0.187	
34	38 13C6-Delta-BHC	2.65e5	0.79	NO	0.164	1.000	30.36	30.39	1.163	1.164	NO	44.86	89.7	0.160	
35	39 13C10-Heptachlor	1.34e5	1.30	NO	0.0770	1.000	28.79	28.82	1.103	1.104	NO	48.62	97.2	0.0818	
36	40 13C12-Aldrin	2.10e5	1.63	NO	0.122	1.000	30.91	30.94	1.184	1.185	NO	48.20	96.4	0.110	
37	41 13C10-Oxychlordane	4.58e4	1.67	NO	0.0283	1.000	33.51	33.56	1.284	1.286	NO	45.08	90.2	0.473	
38	42 13C10-cis-Heptachlor Ep...	5.46e4	1.59	NO	0.0366	1.000	34.30	34.34	1.314	1.316	NO	41.47	82.9	0.366	
39	43 13C10-trans-Chlordane (...)	4.22e4	1.67	NO	0.0292	1.000	35.20	35.25	1.349	1.350	NO	40.28	80.6	0.459	
40	44 13C10-trans-Nonachlor	4.67e4	1.61	NO	0.0333	1.000	35.39	35.44	1.356	1.358	NO	39.02	78.0	0.402	
41	45 13C9-Endosulfan I (alpha)	3.36e4	1.64	NO	0.0212	1.000	35.98	36.04	1.378	1.381	NO	44.11	88.2	0.632	
42	46 13C12-2,4'-DDE	1.24e6	1.58	NO	0.763	1.000	35.94	35.92	0.996	0.996	NO	45.39	90.8	0.119	
43	47 13C12-4,4'-DDE	8.40e5	1.57	NO	0.552	1.000	37.00	37.00	1.026	1.025	NO	42.36	84.7	0.164	
44	48 13C12-Dieldrin	1.24e5	1.60	NO	0.0749	1.000	37.50	37.50	1.039	1.039	NO	46.21	92.4	0.238	
45	49 13C12-Endrin	5.77e4	1.60	NO	0.0351	1.000	38.90	38.89	1.078	1.078	NO	45.75	91.5	0.509	
46	50 13C10-cis-Nonachlor	5.72e4	1.72	NO	0.0389	1.000	39.19	39.19	1.086	1.086	NO	40.90	81.8	0.459	
47	51 13C9-Endosulfan II	1.66e4	1.70	NO	0.0112	1.000	39.91	39.92	1.106	1.106	NO	41.37	82.7	1.60	
48	52 13C12-2,4'-DDD	9.88e5	1.59	NO	0.588	1.000	38.07	38.15	1.459	1.462	NO	46.74	93.5	0.111	
49	53 13C12-2,4'-DDT	5.82e5	1.84	NO	0.370	1.000	39.20	39.28	1.502	1.505	NO	43.79	87.6	0.177	
50	54 13C12-4,4'-DDD	7.87e5	1.59	NO	0.473	1.000	39.32	39.40	1.507	1.509	NO	46.28	92.6	0.138	
51	55 13C12-4,4'-DDT	4.00e5	1.58	NO	0.280	1.000	40.39	40.47	1.547	1.550	NO	39.77	79.5	0.233	
52	56 13C9-Endosulfan Sulfate	2.88e4	1.62	NO	0.0173	1.000	41.64	41.65	1.154	1.154	NO	46.38	92.8	1.54	
53	57 13C12-Methoxychlor	3.43e6	19.27	NO	0.257	1.000	43.51	43.51	1.206	1.206	NO	372.3	74.5	0.360	
54	58 13C10-Mirex	2.58e5	1.52	NO	0.164	1.000	44.06	44.06	1.221	1.221	NO	43.71	87.4	0.185	
55	59 13C12-Endrin Aldehyde	5.63e5	0.50	NO	0.0345	1.000	41.04	41.05	1.138	1.138	NO	453.7	90.7	1.92	
56	60 13C12-Endrin Ketone	4.00e5	0.50	NO	0.0222	1.000	44.20	44.20	1.225	1.225	NO	501.1	100	2.98	
57	62 13C-PCB-15	1.80e6	1.57	NO	1.00	1.000	26.18	26.10	1.000	1.000	NO	50.00	100	0.0277	

Vista Analytical Laboratory VG-11

Dataset: Untitled

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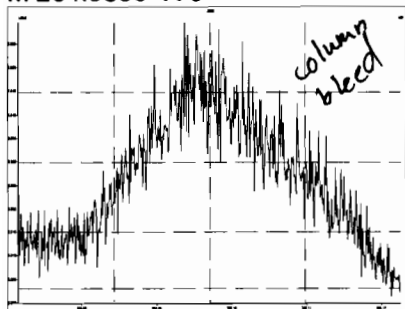
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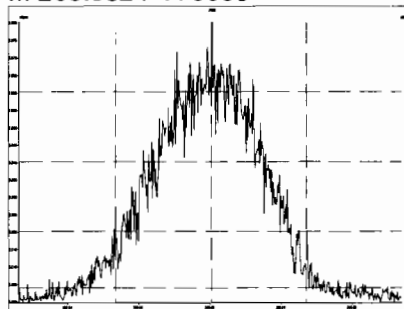
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3	191122K4_3	GC191122K3-1 GC BREAK	23-Nov-19	10:13:54
4	191122K4_4	SOLVENT BLANK	23-Nov-19	11:03:21
5	191122K4_5	1904016-03 PDI-140RAB-00-10-191108 1	23-Nov-19	11:52:49
6	191122K4_6	1904016-04 PDI-140RAB-10-12.7-191108 1	23-Nov-19	12:42:23
7	191122K4_7	1904016-05 PDI-141RAB-00-10-191107 1	23-Nov-19	13:31:51
8	191122K4_8	1904016-07 PDI-143RAB-00-10-191111 1	23-Nov-19	14:21:20
9	191122K4_9	1904016-08 PDI-143RAB-10-20-191111 1	23-Nov-19	15:10:53
10	191122K4_10	1904016-09 PDI-143RAB-20-31.1-191111 1	23-Nov-19	16:00:21
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12	191122K4_12	1904021-01@10X PDI-1142RAB-20-30.4-191...	23-Nov-19	17:39:25
13	191122K4_13	1904021-04@10X PDI-142RAB-20-30.4-191...	23-Nov-19	18:30:03
14	191122K4_14	1904016-06 PDI-141RAB-10-17.7-191107 1	23-Nov-19	19:19:18
15	191122K4_15	1904021-01 PDI-1142RAB-20-30.4-191112 1	23-Nov-19	20:07:58
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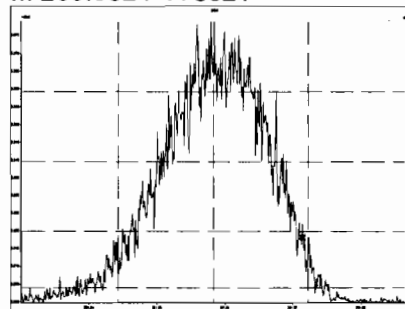
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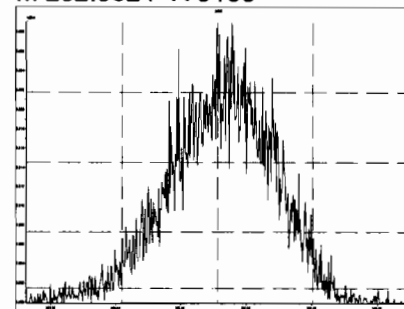
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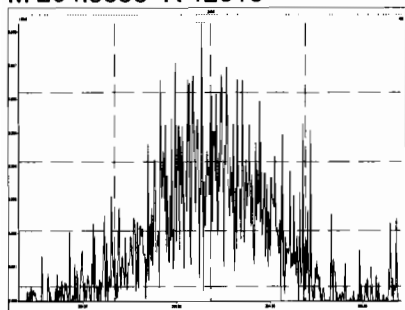
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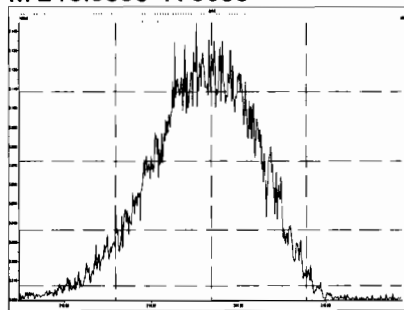
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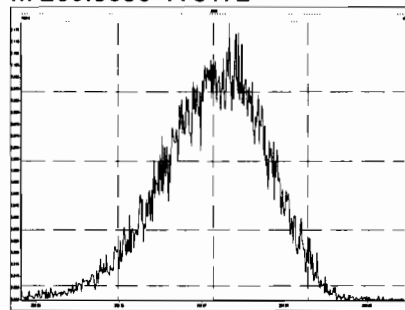
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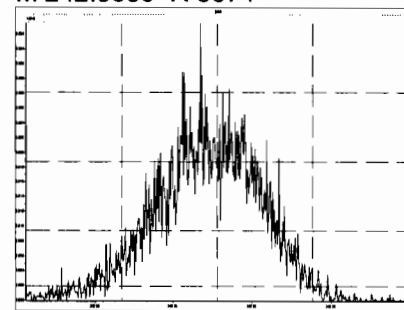
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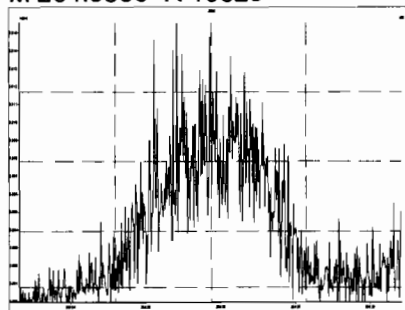
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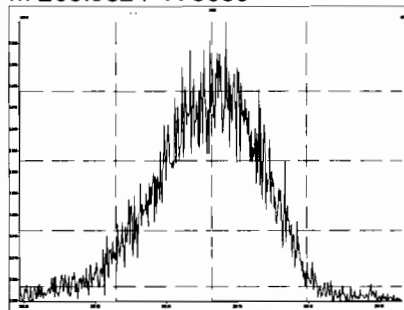
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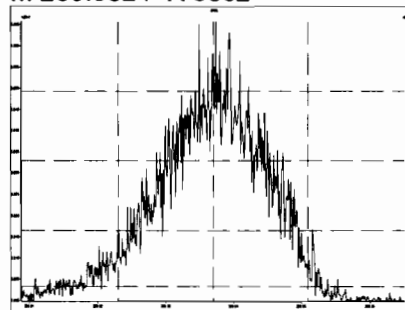
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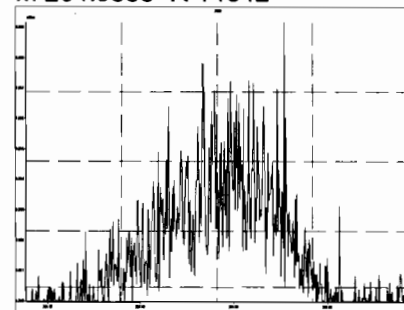
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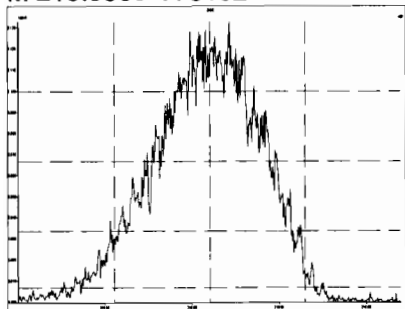
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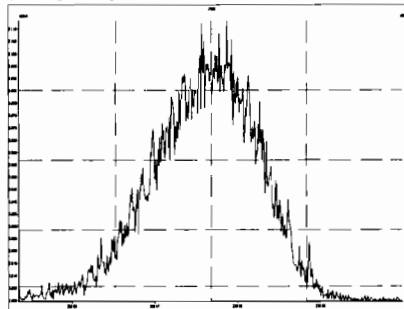
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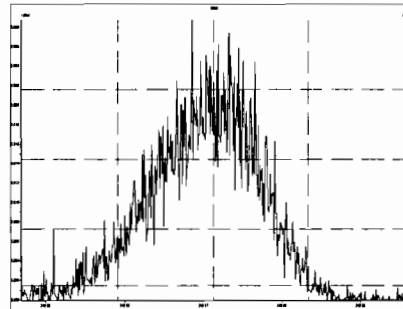
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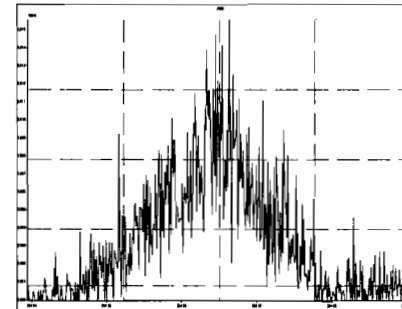
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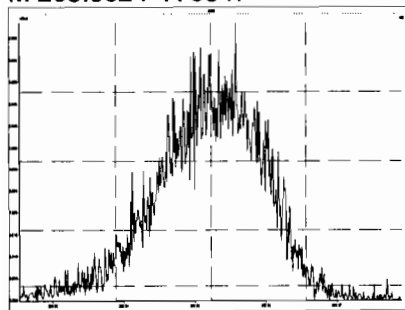
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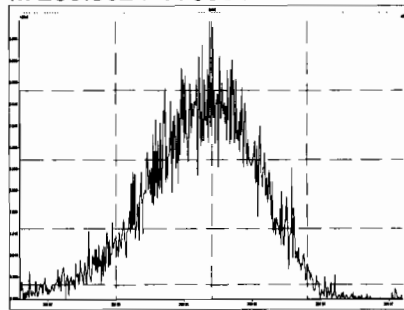
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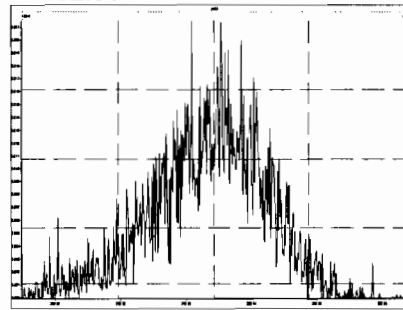
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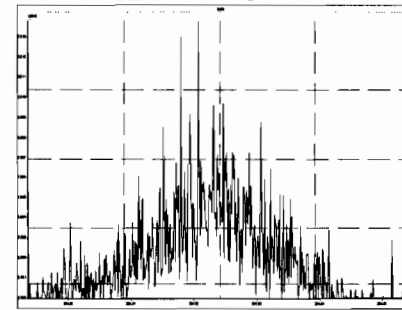
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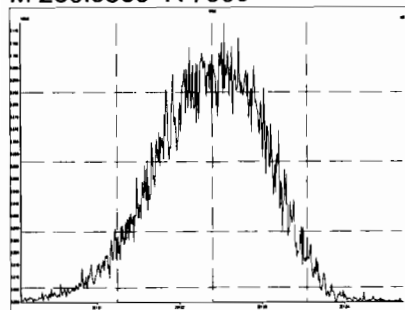
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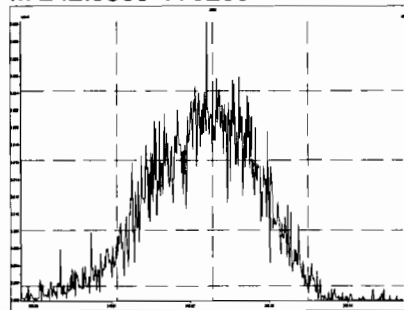
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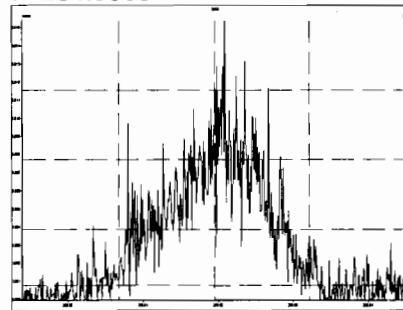
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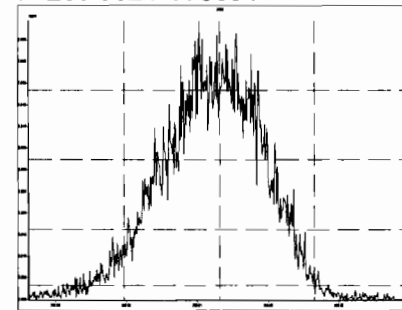
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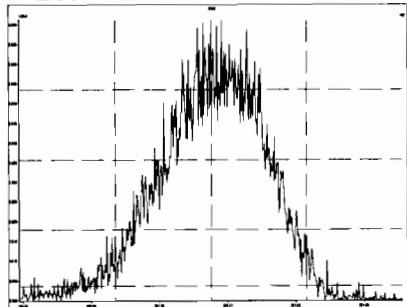
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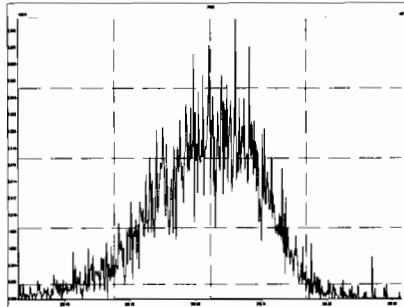
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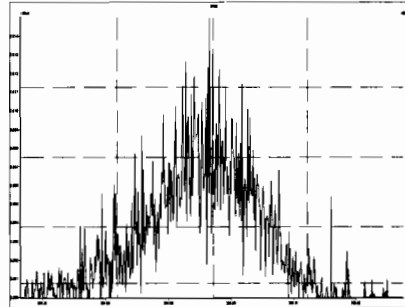
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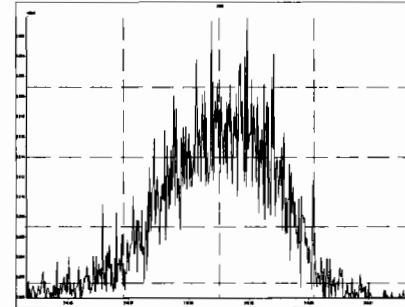
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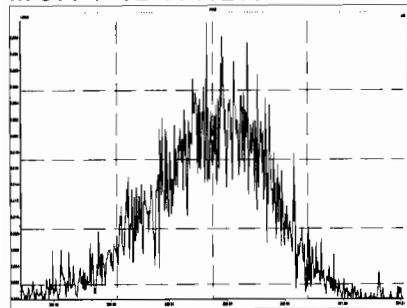
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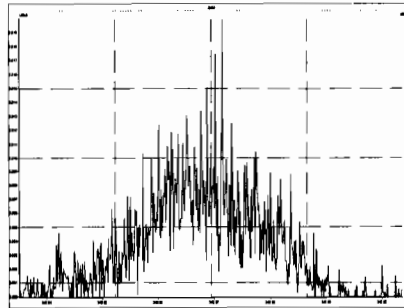
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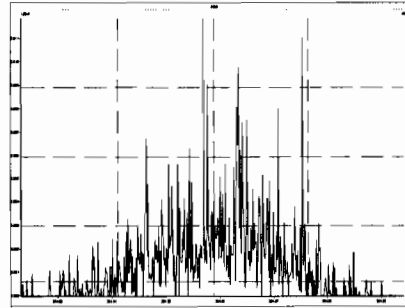
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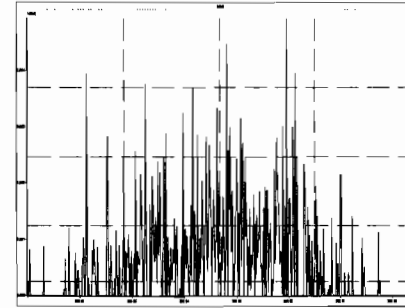
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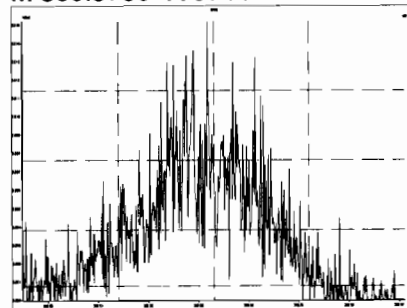
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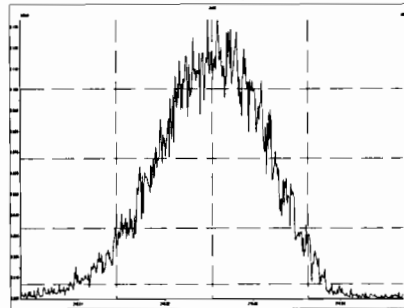
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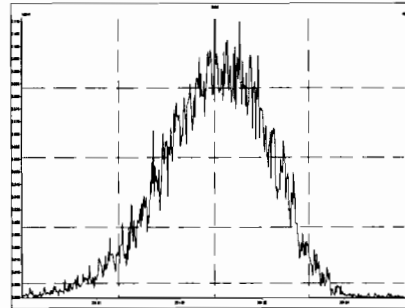
M 380.9760 R 9711



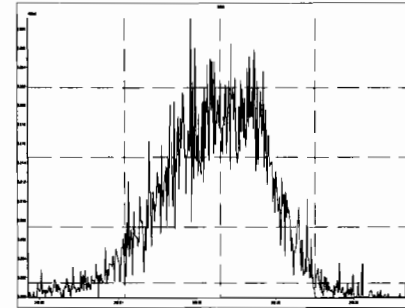
M 218.9856 R 8116



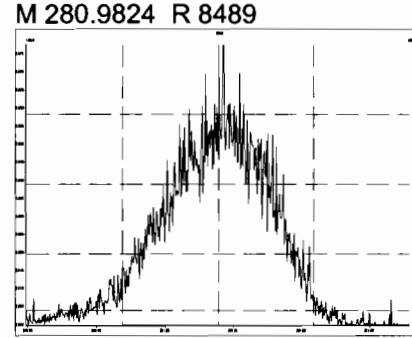
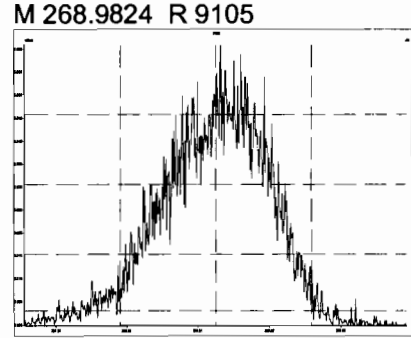
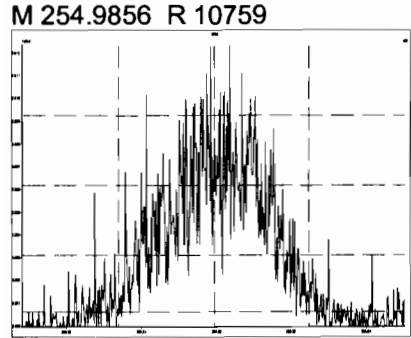
M 230.9856 R 8225



M 242.9856 R 8880



Printed: Saturday, November 23, 2019 08:37:31 Pacific Standard Time



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Last Altered: Sunday, November 24, 2019 15:25:47 Pacific Standard Time

Printed: Sunday, November 24, 2019 15:26:42 Pacific Standard Time

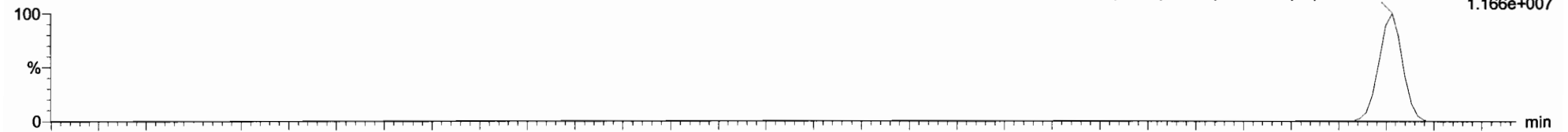
Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

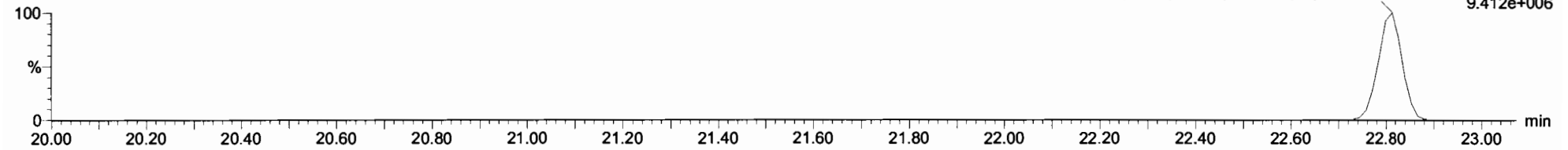
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Hexachlorobenzene

191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

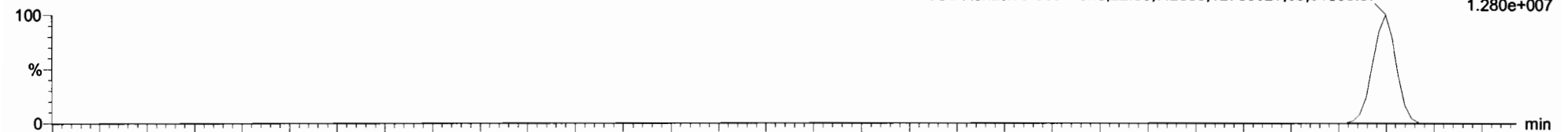


191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

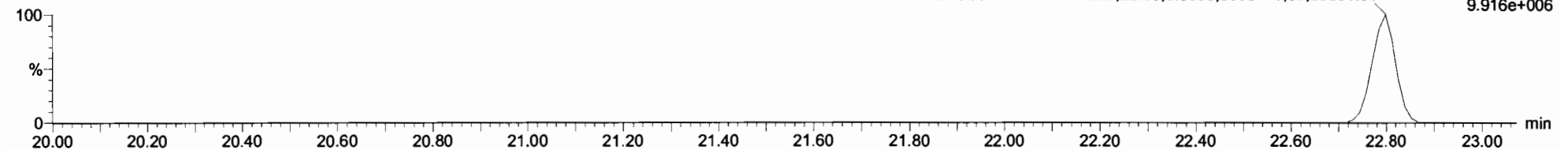


13C6-Hexachlorobenzene

191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204



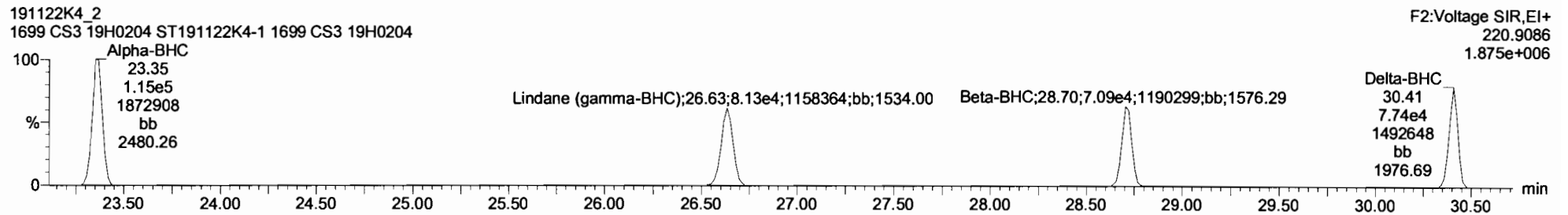
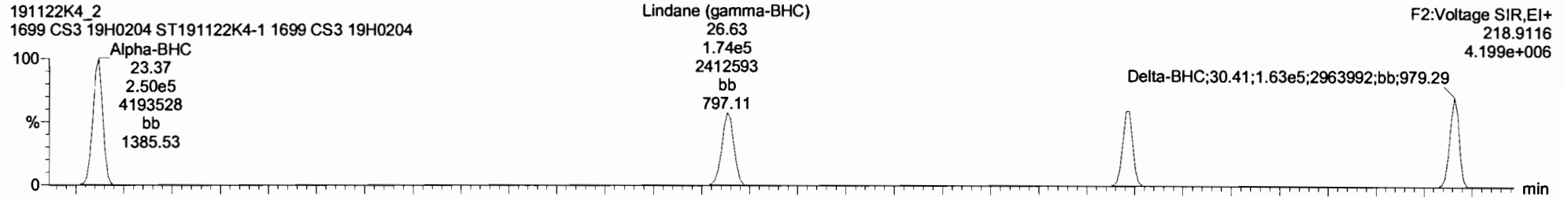
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Last Altered: Sunday, November 24, 2019 15:25:47 Pacific Standard Time

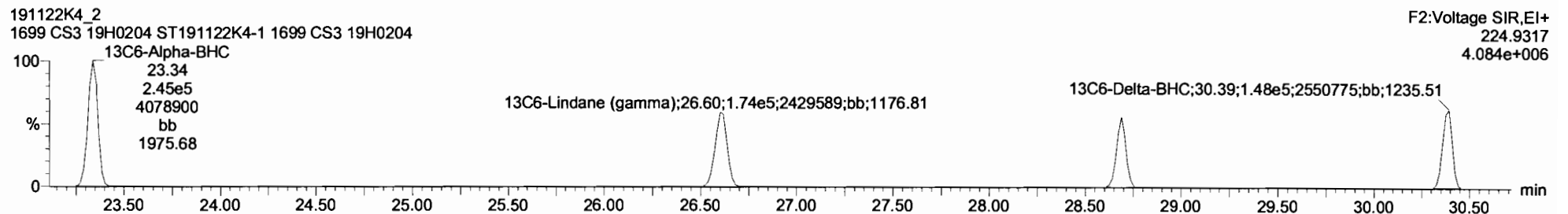
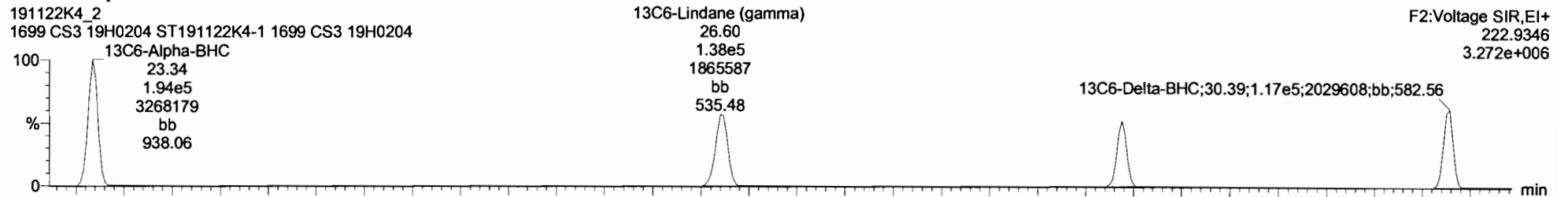
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Name: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:25:47 Pacific Standard Time

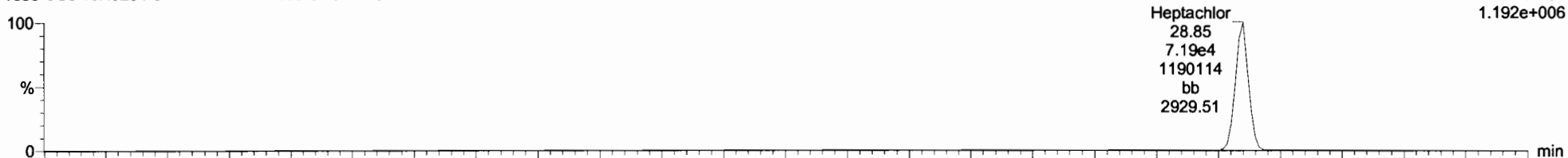
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Name: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Heptachlor

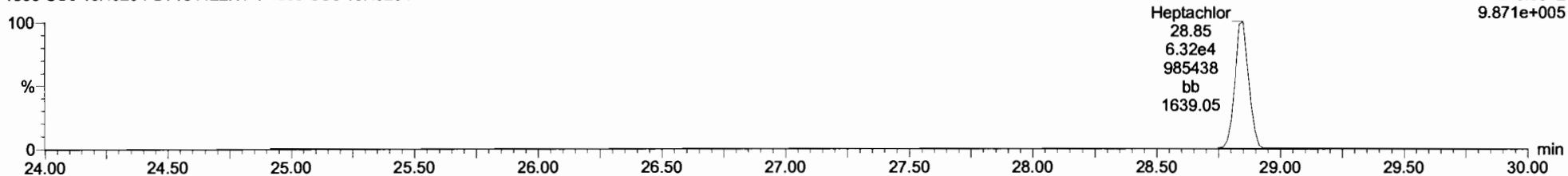
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F2:Voltage SIR,EI+
271.8102
1.192e+006



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

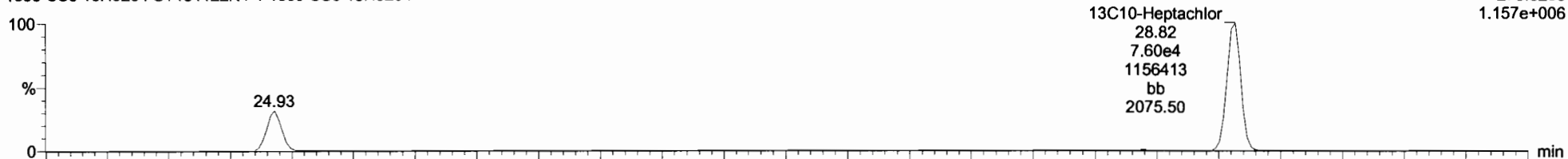
F2:Voltage SIR,EI+
273.8072
9.871e+005



13C10-Heptachlor

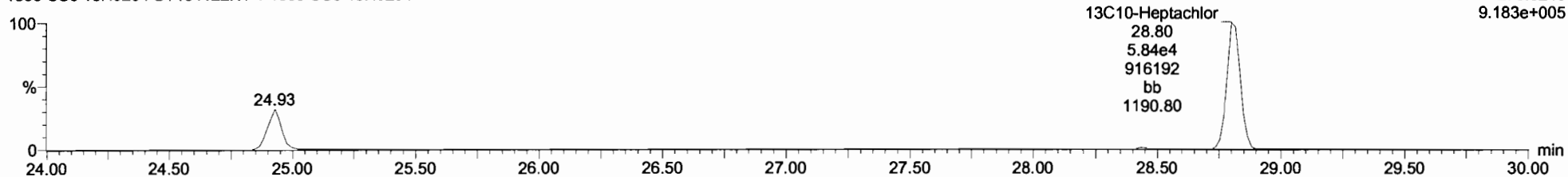
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F2:Voltage SIR,EI+
276.8269
1.157e+006



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F2:Voltage SIR,EI+
278.8240
9.183e+005



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:25:47 Pacific Standard Time

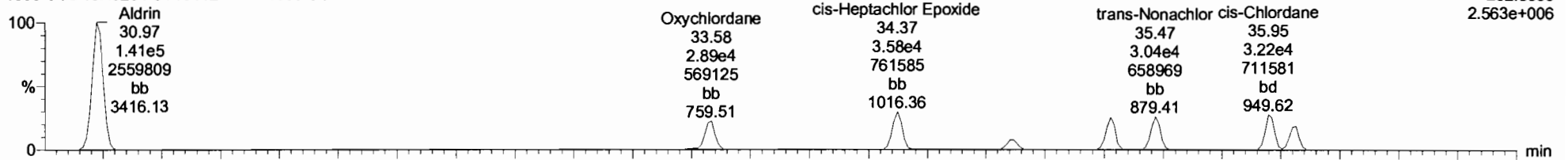
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Name: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Aldrin-EI

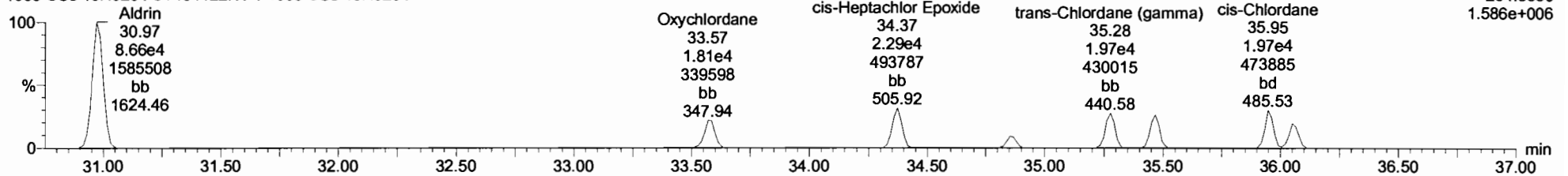
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F3:Voltage SIR,EI+
262.8569
2.563e+006



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

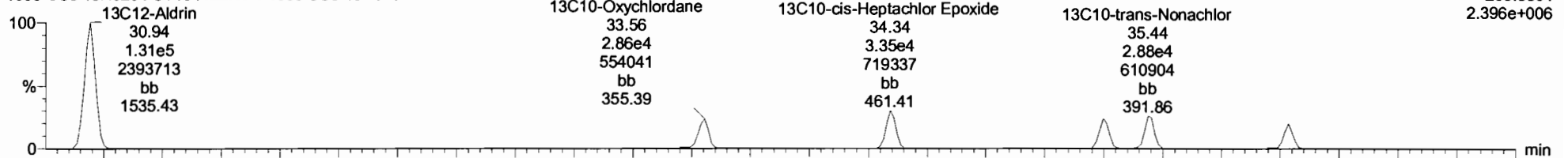
F3:Voltage SIR,EI+
264.8550
1.586e+006



Aldrin-EI-isotopes

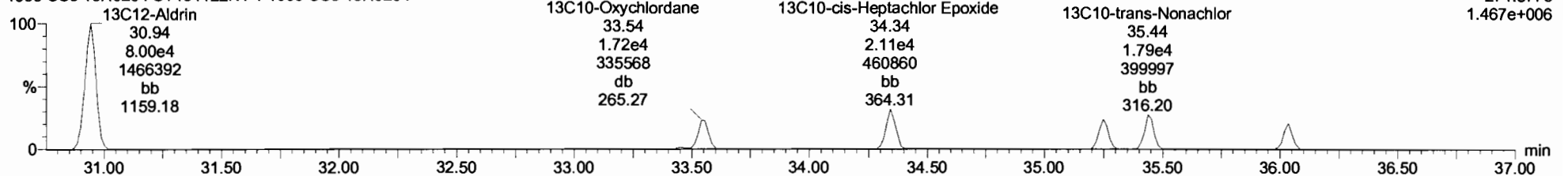
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F3:Voltage SIR,EI+
269.8804
2.396e+006



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F3:Voltage SIR,EI+
271.8775
1.467e+006



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:25:47 Pacific Standard Time

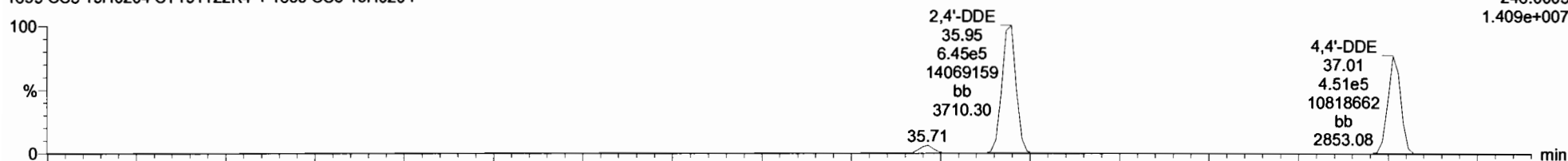
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Name: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

DDMU-DDE

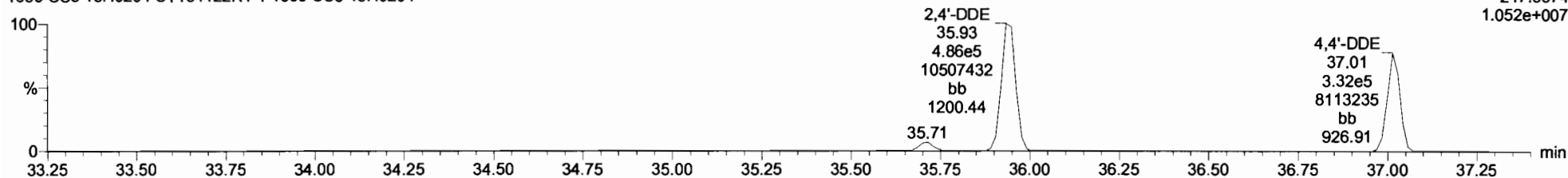
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F3:Voltage SIR,EI+
246.0003
1.409e+007



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

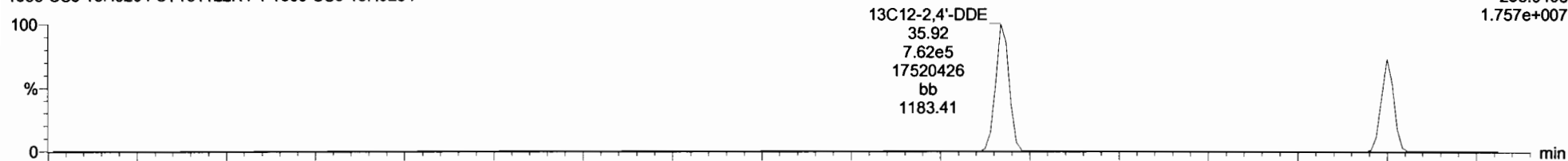
F3:Voltage SIR,EI+
247.9974
1.052e+007



DDE-isotopes

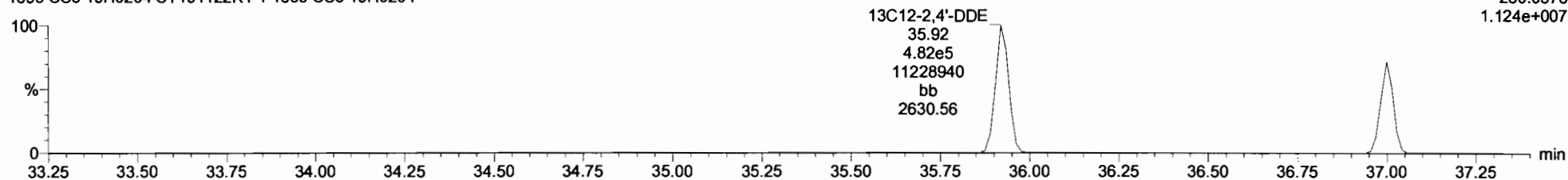
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F3:Voltage SIR,EI+
258.0406
1.757e+007



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F3:Voltage SIR,EI+
260.0376
1.124e+007



Dataset: Untitled

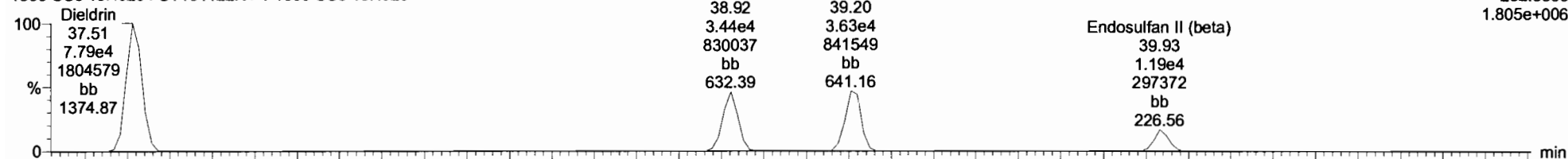
Last Altered: Sunday, November 24, 2019 15:25:47 Pacific Standard Time

Printed: Sunday, November 24, 2019 15:26:42 Pacific Standard Time

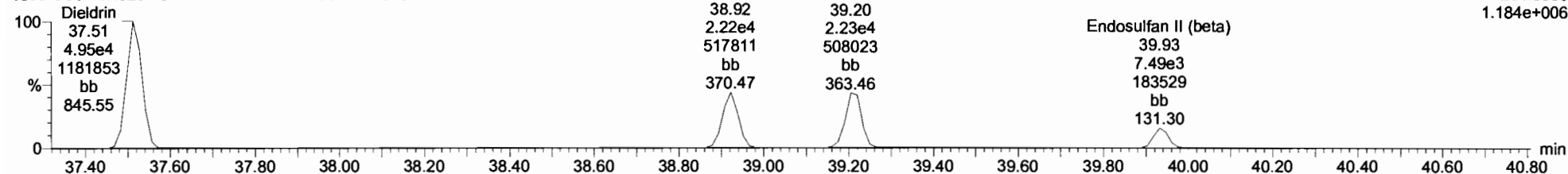
Name: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Dieldrin-EI1

191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

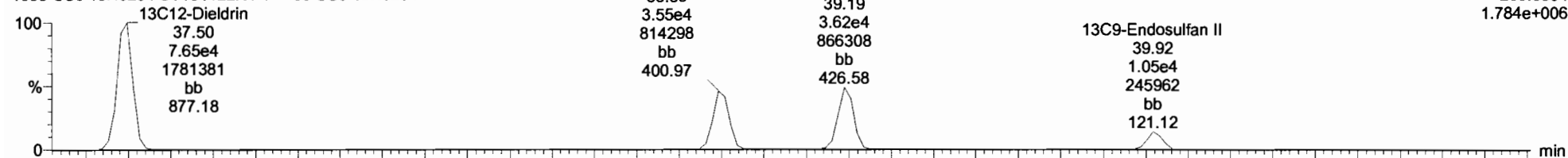


191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

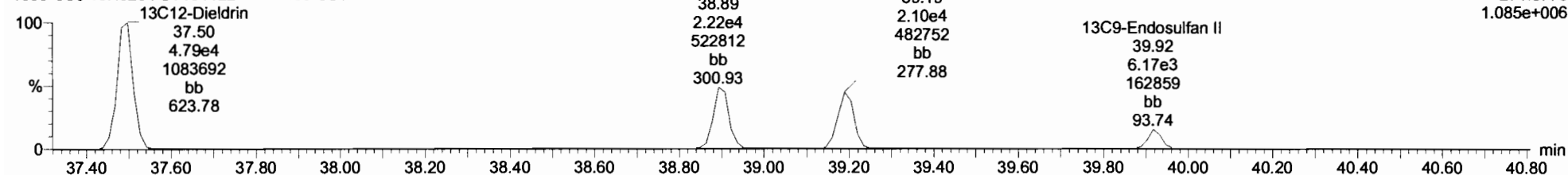


Dieldrin-EI1-isotopes

191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204



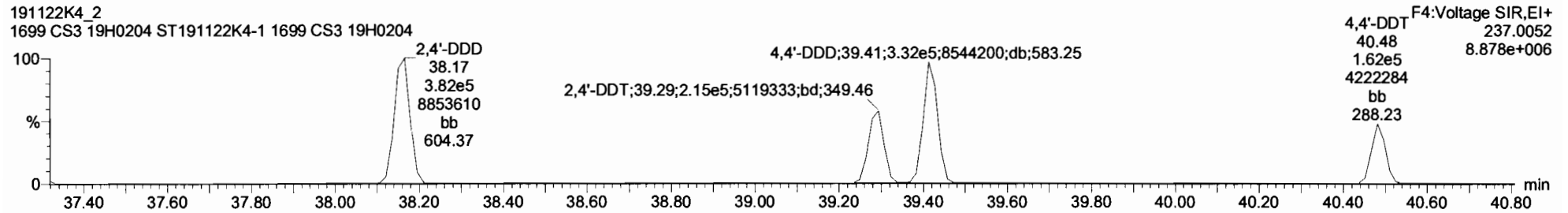
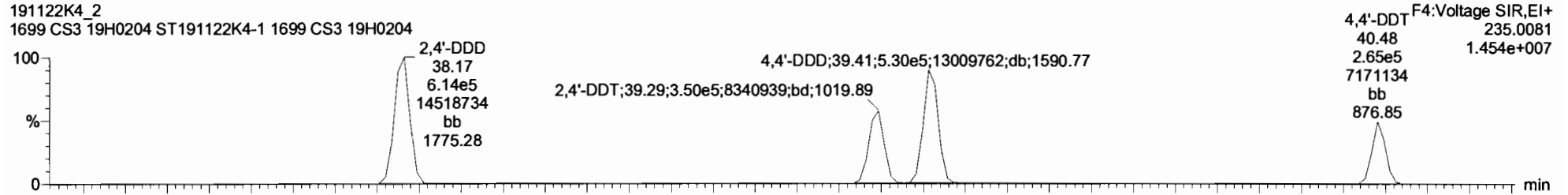
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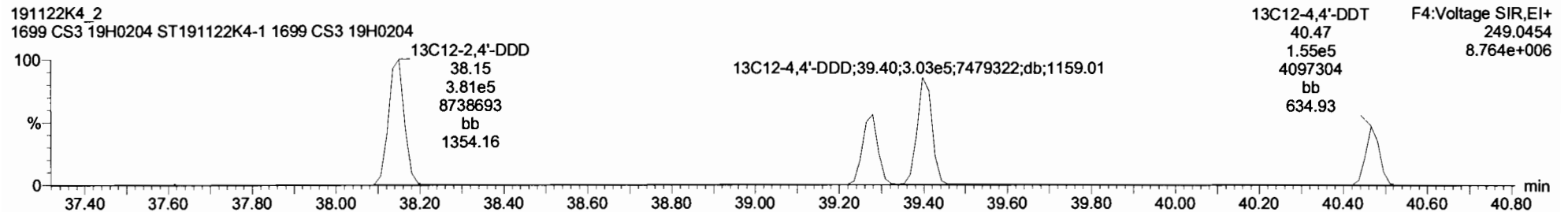
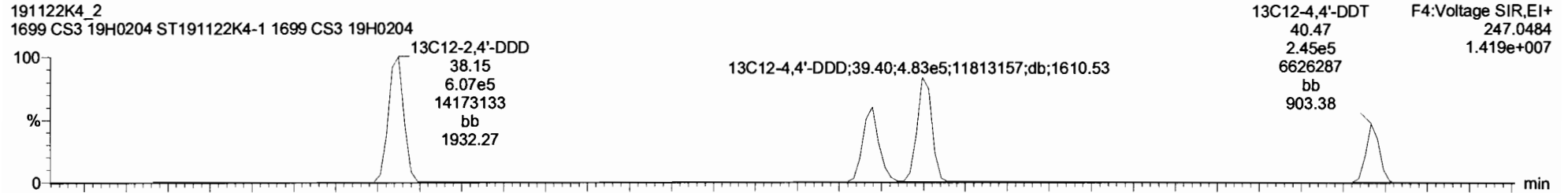
Printed: Sunday, November 24, 2019 15:26:42 Pacific Standard Time

Name: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

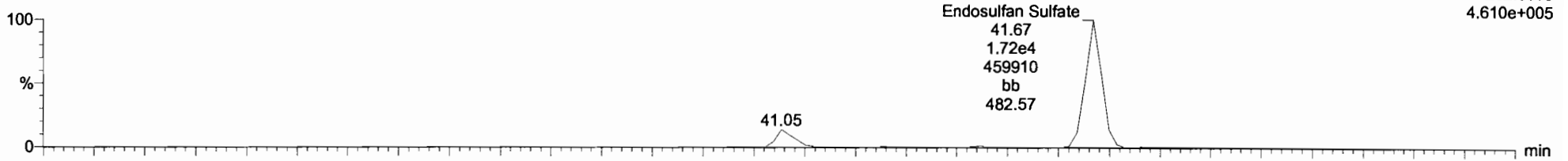
Last Altered: Sunday, November 24, 2019 15:25:47 Pacific Standard Time
Printed: Sunday, November 24, 2019 15:26:42 Pacific Standard Time

Name: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Endosulfan Sulfate

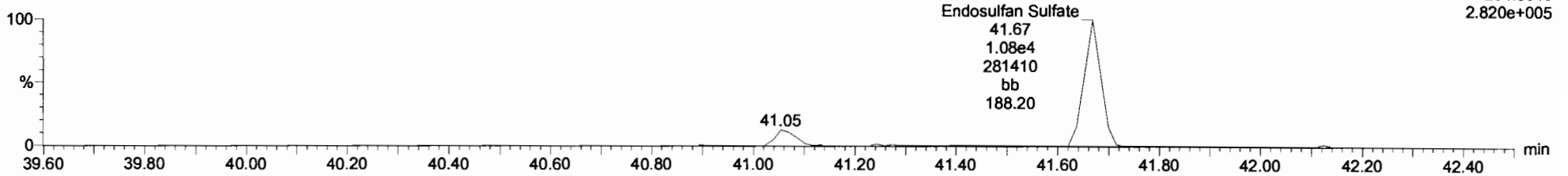
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F5:Voltage SIR,EI+
262.8569
4.610e+005



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

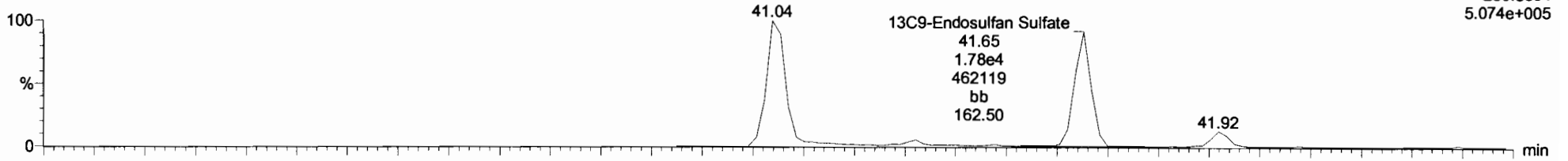
F5:Voltage SIR,EI+
264.8540
2.820e+005



13C9-Endosulfan Sulfate

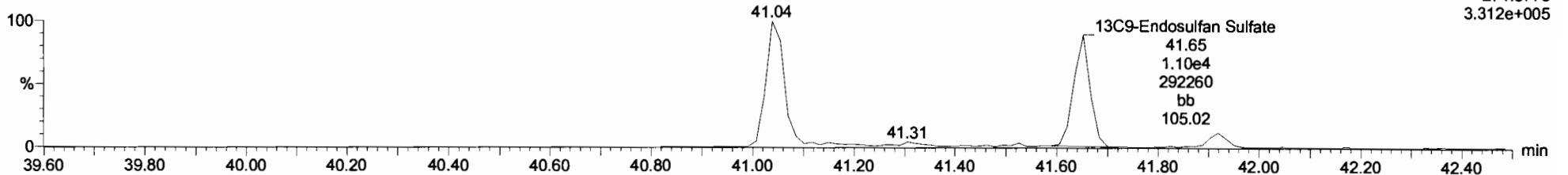
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F5:Voltage SIR,EI+
269.8804
5.074e+005



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F5:Voltage SIR,EI+
271.8775
3.312e+005



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:25:47 Pacific Standard Time

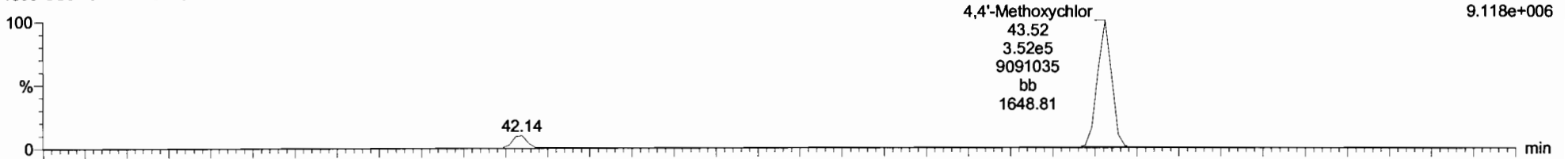
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Name: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

4,4'-Methoxychlor

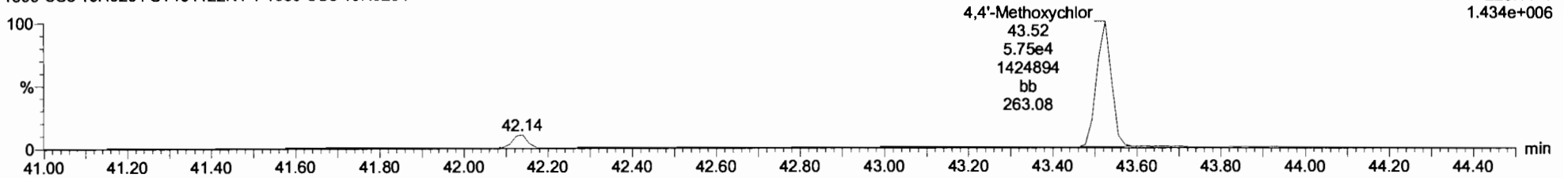
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F5:Voltage SIR,EI+
227.1072
9.118e+006



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

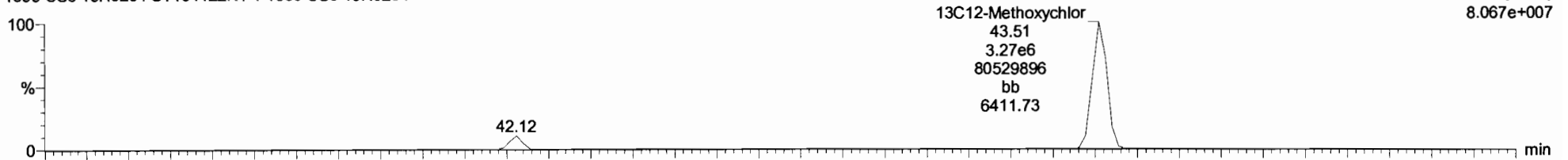
F5:Voltage SIR,EI+
228.1106
1.434e+006



13C12-Methoxychlor

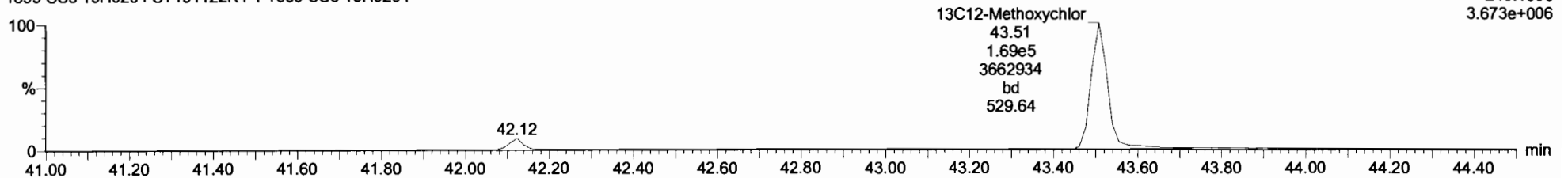
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F5:Voltage SIR,EI+
239.1475
8.067e+007



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F5:Voltage SIR,EI+
240.1508
3.673e+006



Dataset: Untitled

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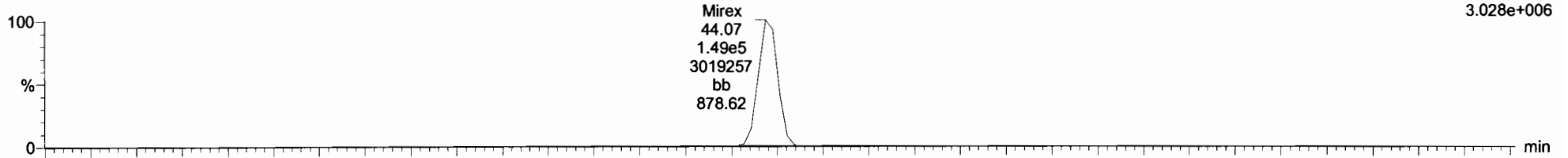
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Mirex

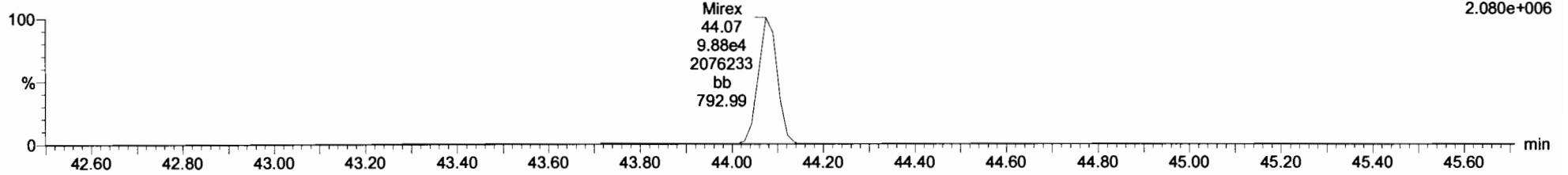
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F5:Voltage SIR,EI+
236.8413
3.028e+006



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

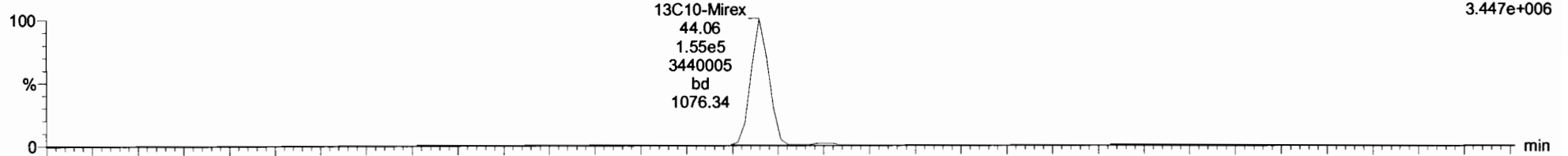
F5:Voltage SIR,EI+
238.8384
2.080e+006



13C10-Mirex

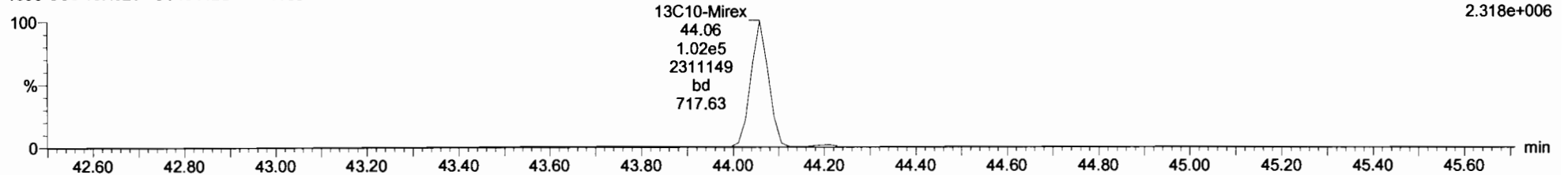
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F5:Voltage SIR,EI+
241.8581
3.447e+006



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F5:Voltage SIR,EI+
243.8551
2.318e+006



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:25:47 Pacific Standard Time

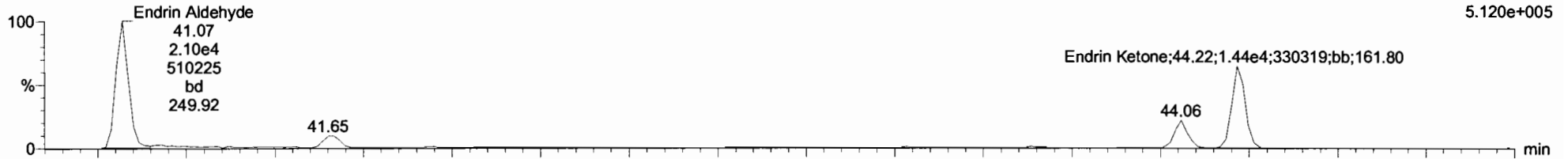
Printed: Sunday, November 24, 2019 15:26:42 Pacific Standard Time

Name: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

EA-EK

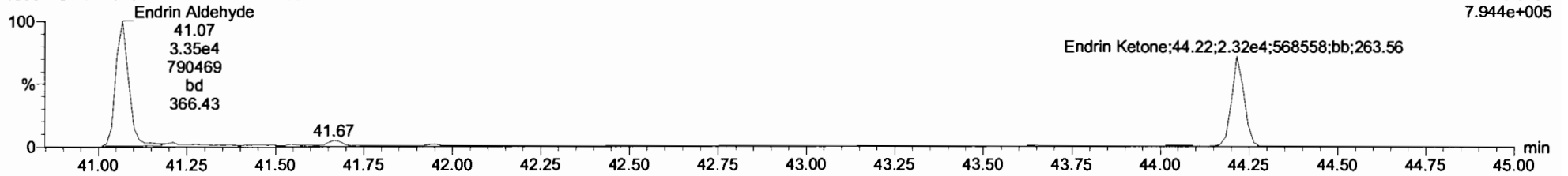
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F5:Voltage SIR,EI+
247.8521
5.120e+005



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

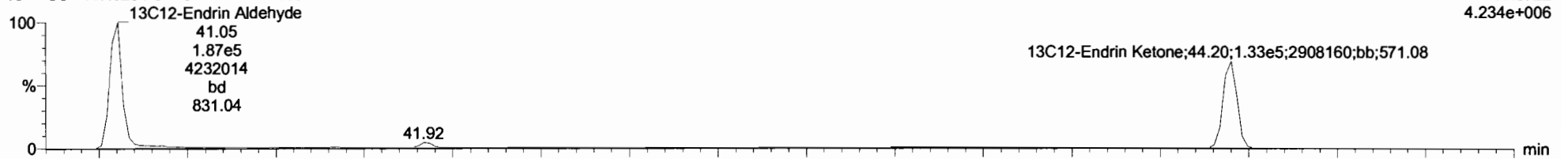
F5:Voltage SIR,EI+
249.8491
7.944e+005



EA-EK-isotopes

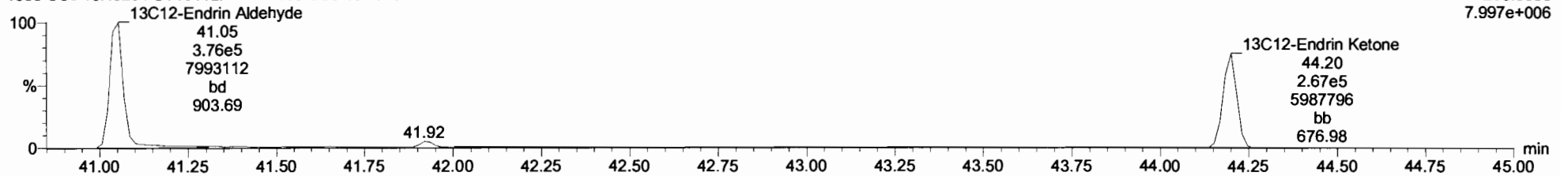
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F5:Voltage SIR,EI+
253.8722
4.234e+006



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F5:Voltage SIR,EI+
255.8693
7.997e+006



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:25:47 Pacific Standard Time

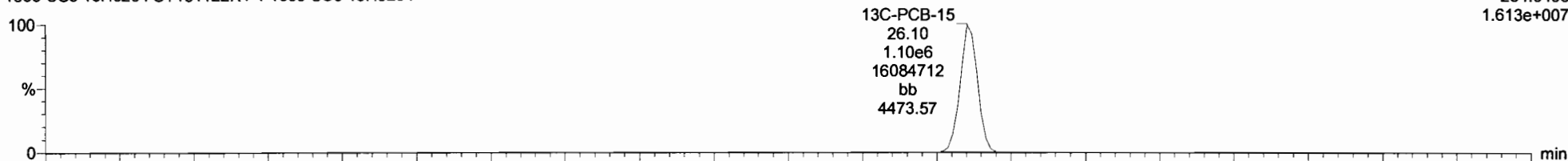
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Name: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

13C-PCB-15

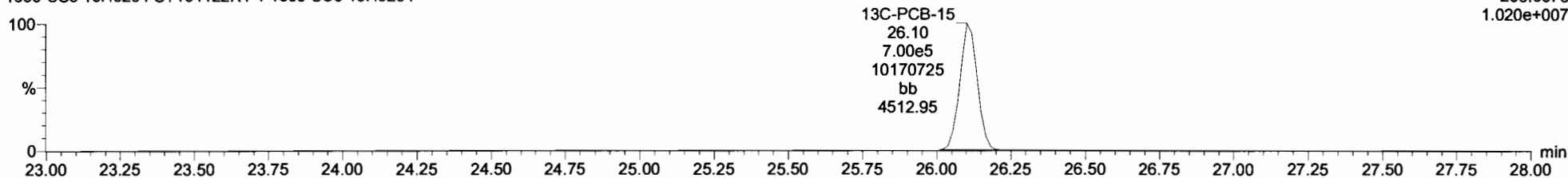
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F2:Voltage SIR,EI+
234.0406
1.613e+007



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

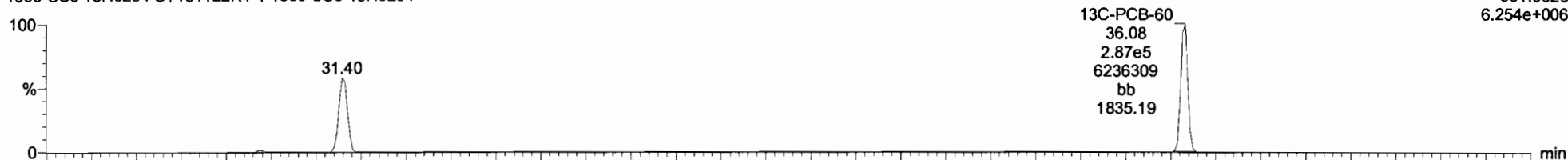
F2:Voltage SIR,EI+
236.0376
1.020e+007



13C-PCB-60

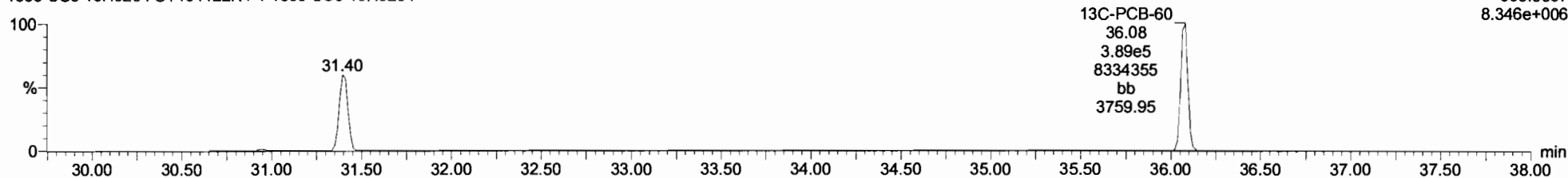
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F3:Voltage SIR,EI+
301.9626
6.254e+006



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F3:Voltage SIR,EI+
303.9597
8.346e+006



Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:25:47 Pacific Standard Time

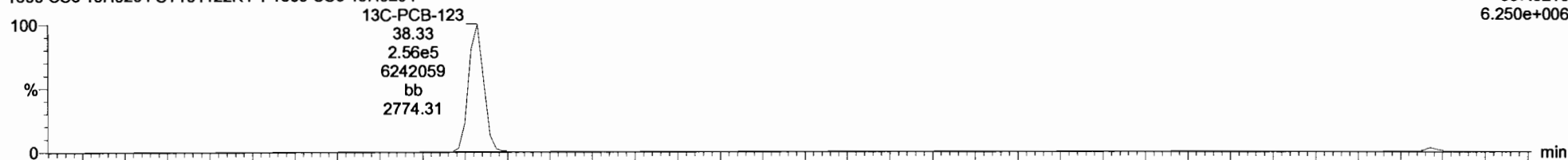
Printed: Sunday, November 24, 2019 15:26:42 Pacific Standard Time

Name: 191122K4_2, Date: 23-Nov-2019, Time: 09:24:25, ID: ST191122K4-1 1699 CS3 19H0204, Description: 1699 CS3 19H0204

13C-PCB-123

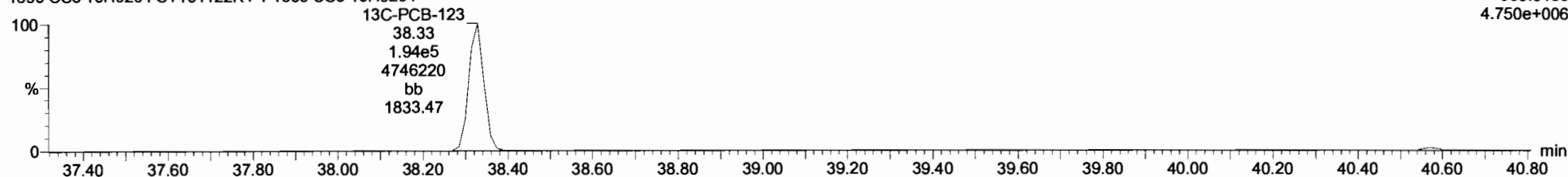
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F4:Voltage SIR,EI+
337.9210
6.250e+006



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

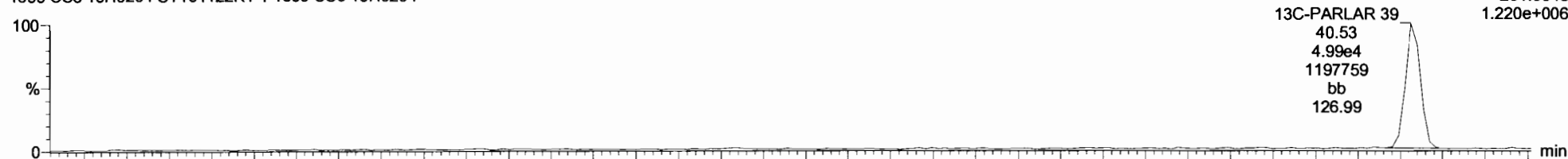
F4:Voltage SIR,EI+
339.9180
4.750e+006



13C-PARLAR 39

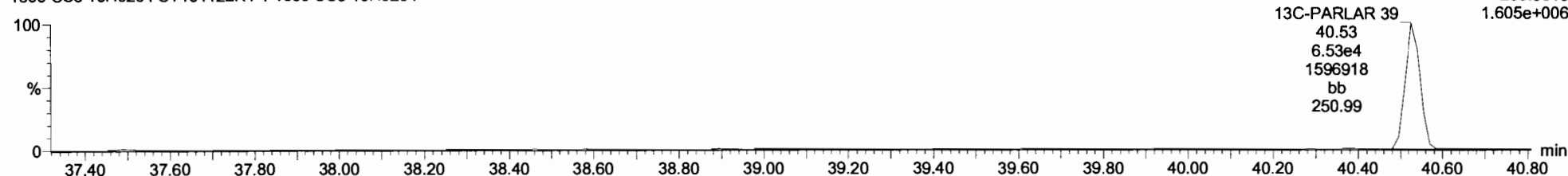
191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F4:Voltage SIR,EI+
251.9648
1.220e+006



191122K4_2
1699 CS3 19H0204 ST191122K4-1 1699 CS3 19H0204

F4:Voltage SIR,EI+
253.9619
1.605e+006



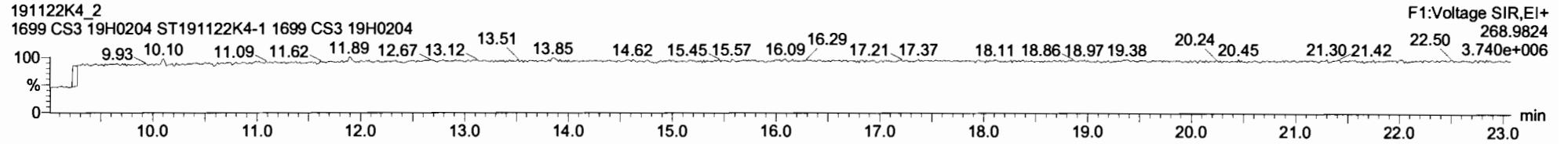
Dataset: Untitled

Last Altered: Sunday, November 24, 2019 15:25:47 Pacific Standard Time

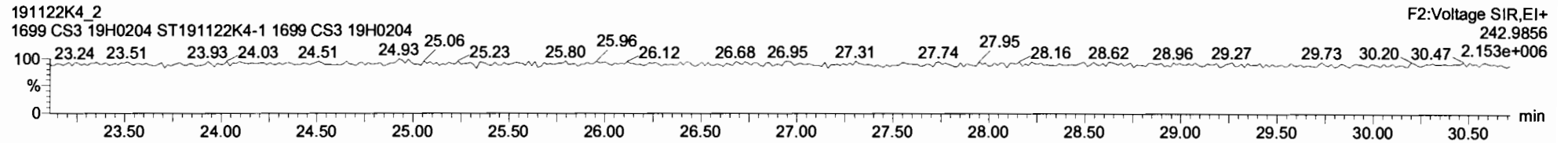
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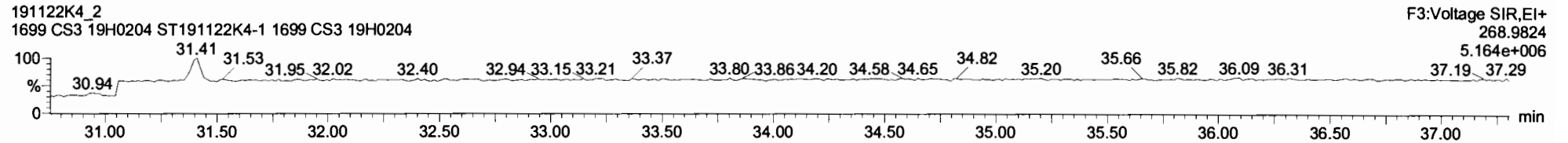
PFK1



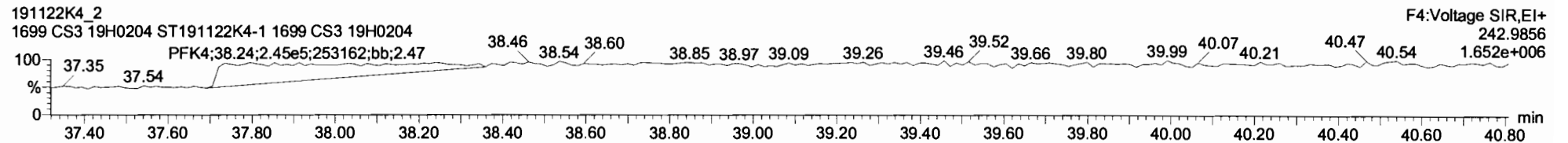
PFK2



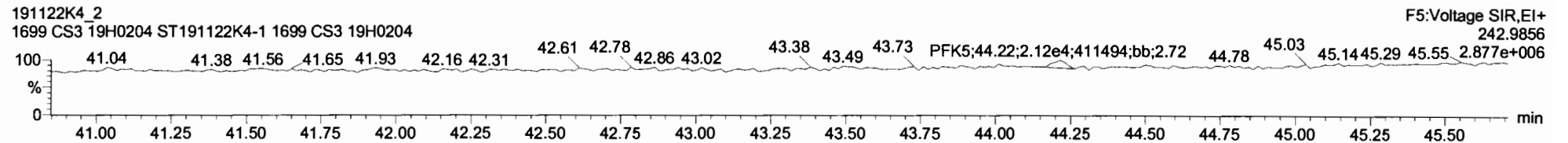
PFK3



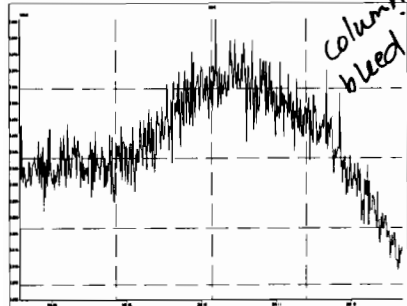
PFK4



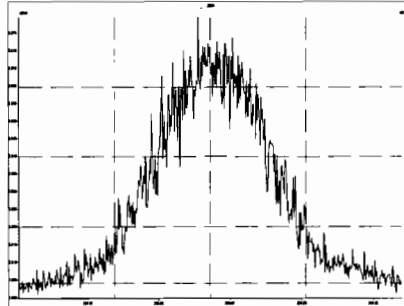
PFK5



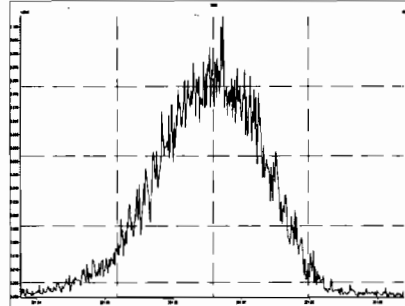
M 254.9856 R 0



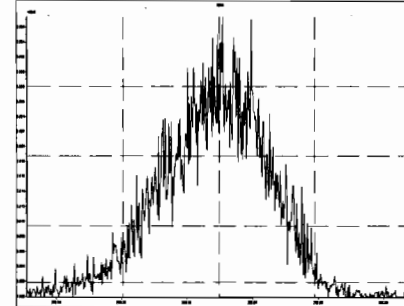
M 268.9824 R 6545



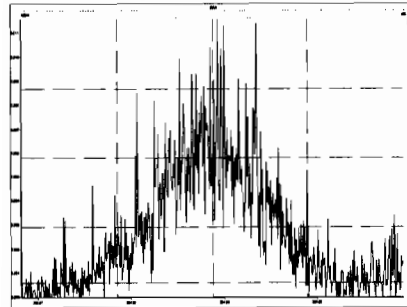
M 280.9824 R 8065



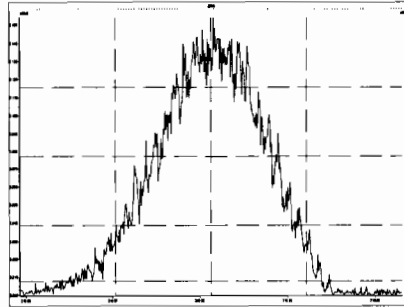
M 292.9824 R 9106



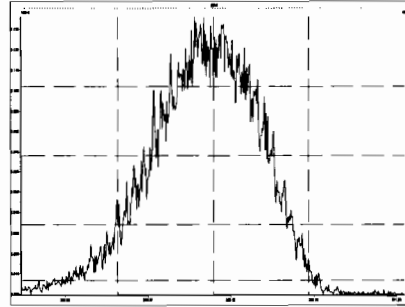
M 204.9888 R 9177



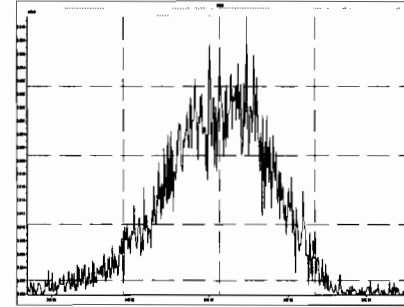
M 218.9856 R 7873



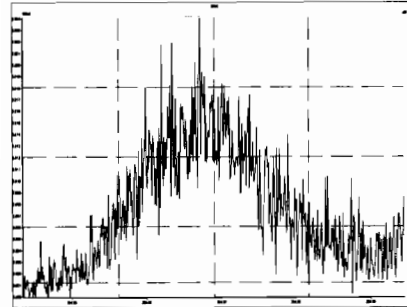
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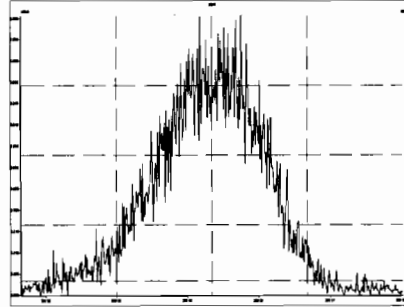
M 242.9856 R 8564



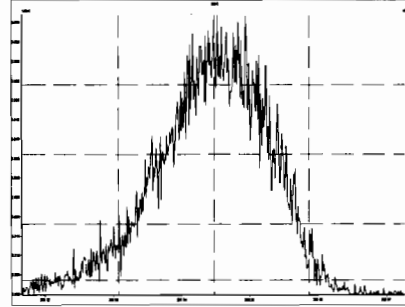
M 254.9856 R 7336



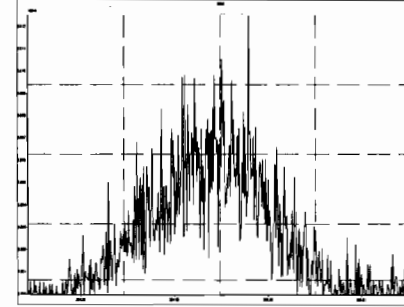
M 268.9824 R 7784



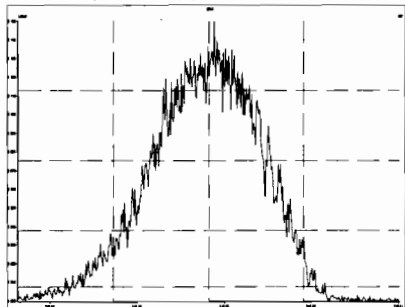
M 280.9824 R 8107



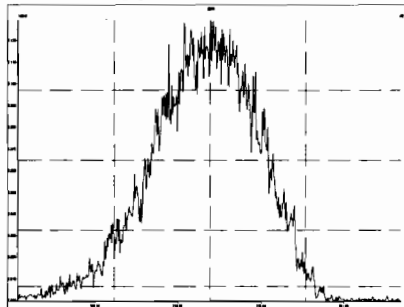
M 204.9888 R 10353



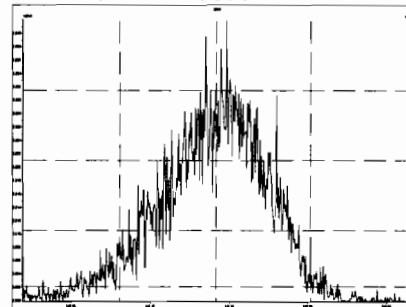
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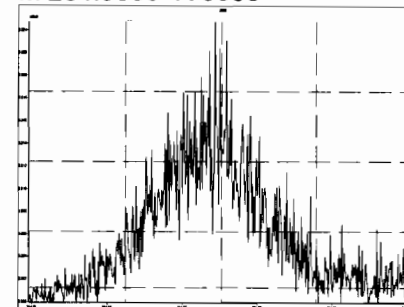
M 230.9856 R 8421



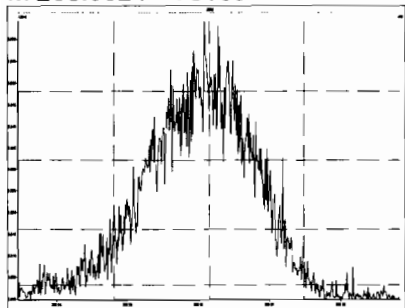
M 242.9856 R 9077



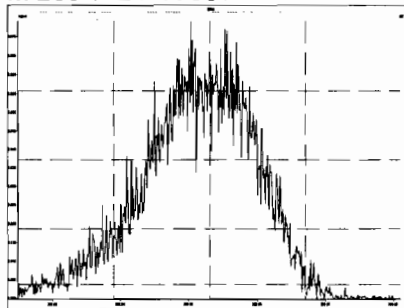
M 254.9856 R 9568



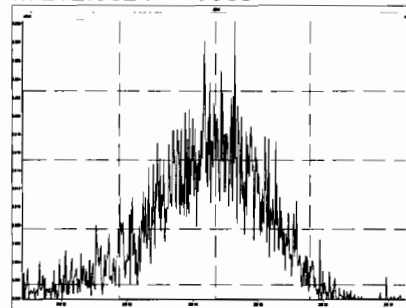
M 268.9824 R 8169



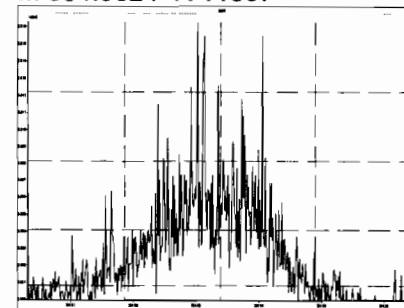
M 280.9824 R 8091



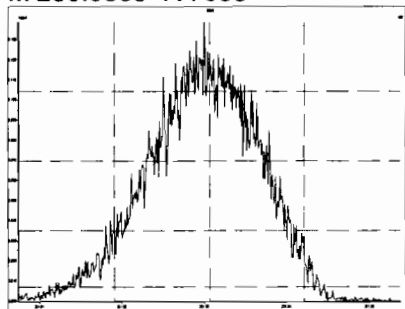
M 292.9824 R 9988



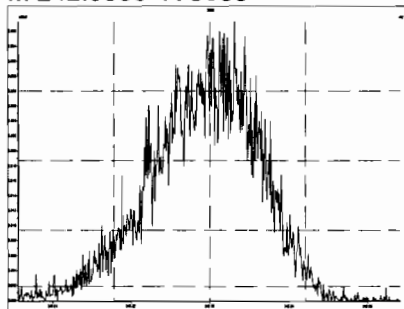
M 304.9824 R 11357



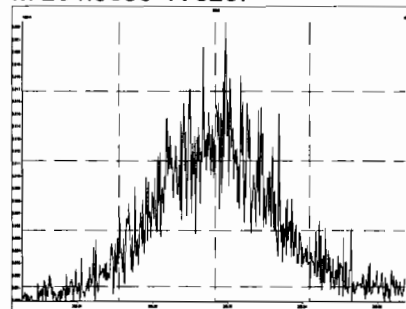
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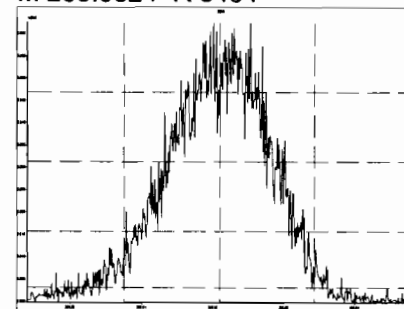
M 242.9856 R 8855



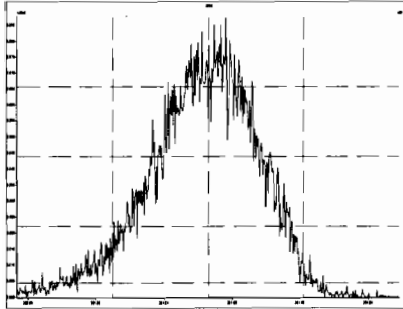
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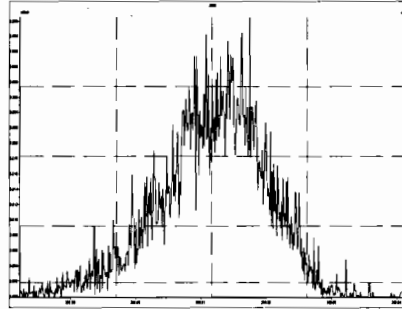
M 268.9824 R 8464



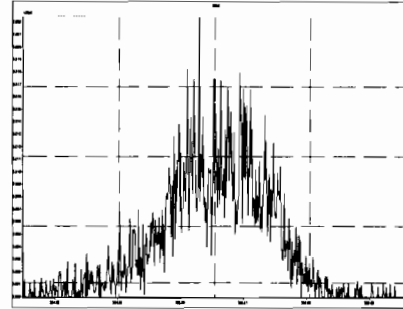
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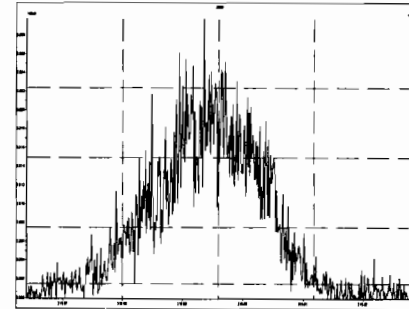
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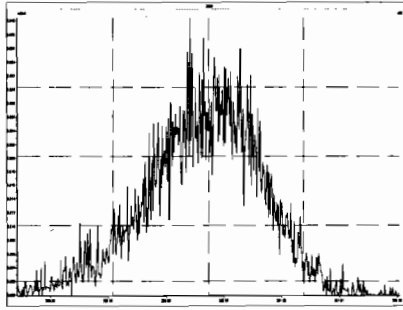
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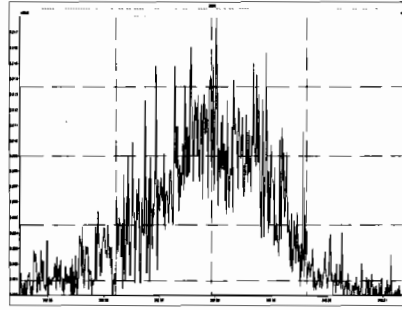
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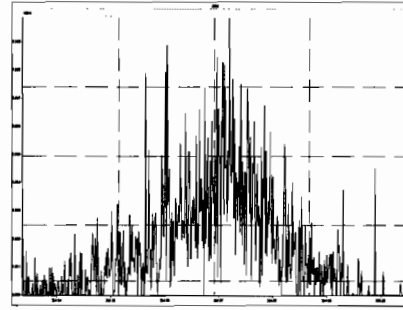
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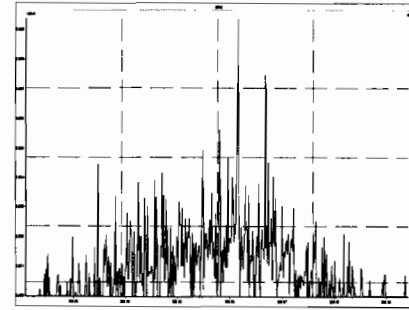
M 342.9792 R 10800



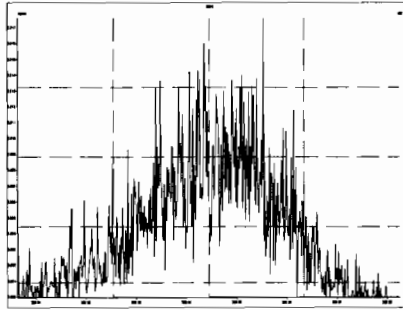
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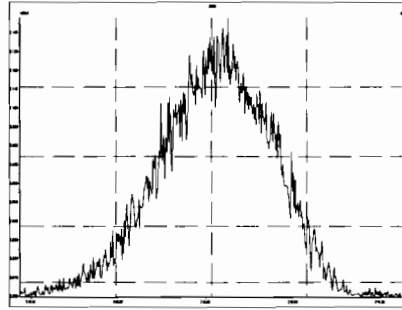
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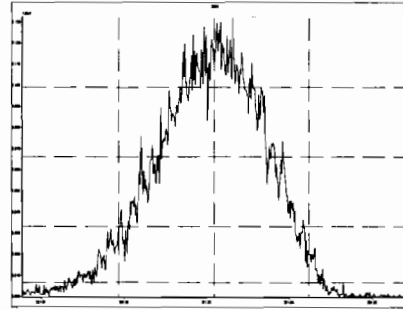
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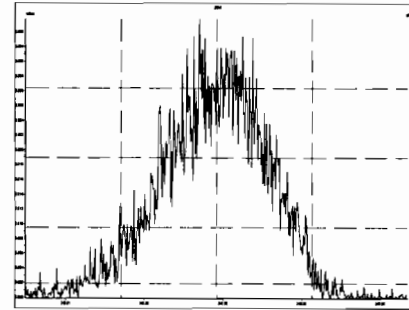
M 218.9856 R 7816



M 230.9856 R 8040

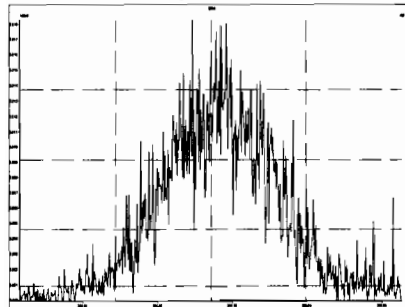


M 242.9856 R 8983

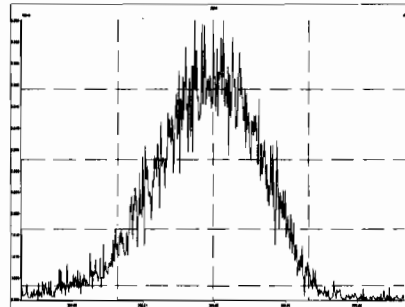


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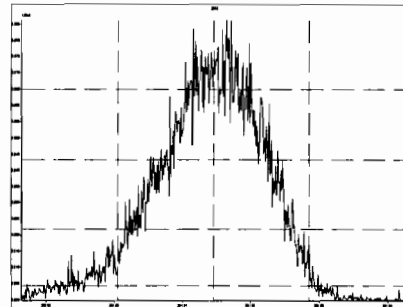
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M 268.9824 R 8667



M 280.9824 R 8278



Dataset: U:\VG11.PRO\Results\191122K4\191122K4-3.qld

Last Altered: Monday, November 25, 2019 08:32:51 Pacific Standard Time

Printed: Monday, November 25, 2019 08:34:44 Pacific Standard Time

EL 11/25/19

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 13:11:31

Name: 191122K4_3, Date: 23-Nov-2019, Time: 10:13:54, ID: GC191122K3-1 GC BREAK, Description: GC BREAK

#	Name	Resp	RA	n/y	RT
1	1 Endrin Aldehyde	9.93e3	0.58	NO	41.07
2	2 Endrin Ketone	1.37e4	0.62	NO	44.23
3	3 Endrin	3.30e5	1.56	NO	38.92
4	4 4,4'-DDE	3.46e3	1.25	NO	37.01
5	5 4,4'-DDD	6.79e5	1.57	NO	39.43
6	6 4,4'-DDT	4.75e6	1.59	NO	40.48
7	7 PFK4				
8	8 PFK5				

$$\left(\frac{EA + EK}{\text{Endrin}} \right) \times 100\% = 7.16\%$$

$$\left(\frac{4,4'\text{-DDE} + 4,4'\text{-DDD}}{4,4'\text{-DDT}} \right) \times 100\% = 14.4\%$$

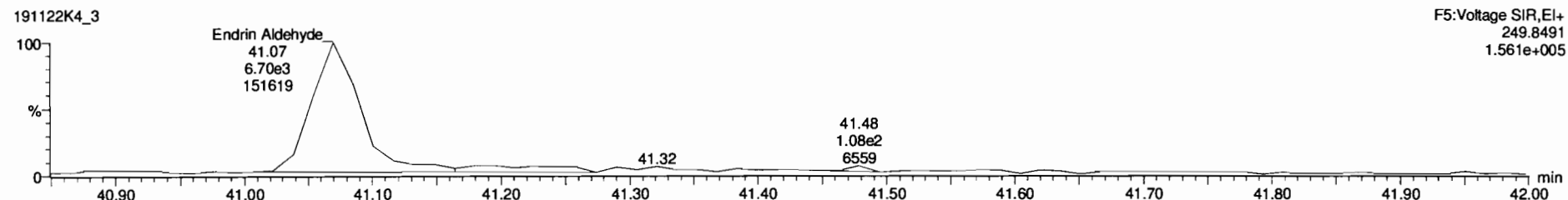
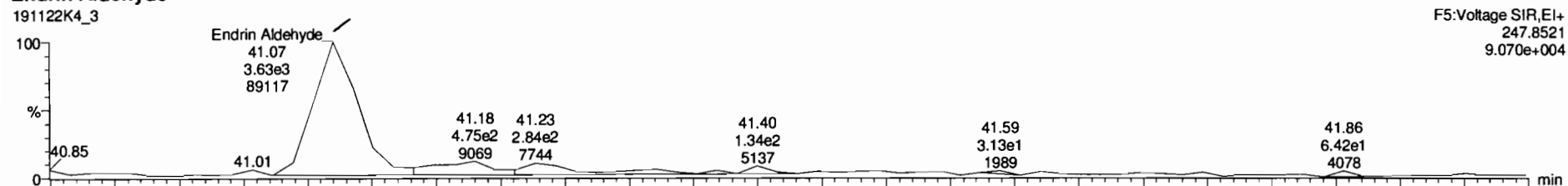
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Last Altered: Sunday, November 24, 2019 15:29:53 Pacific Standard Time
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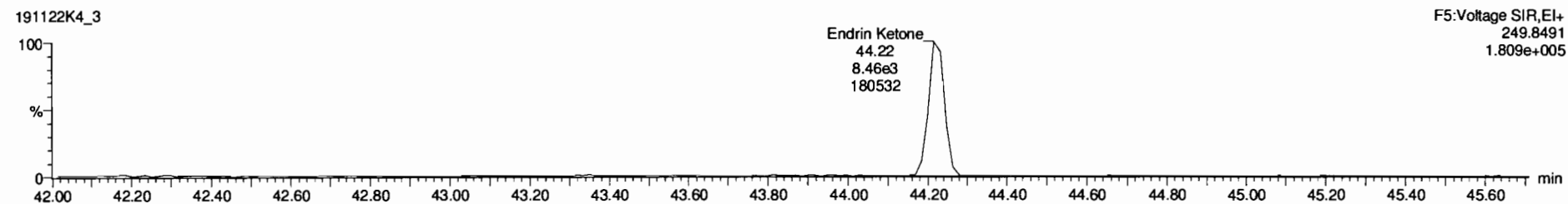
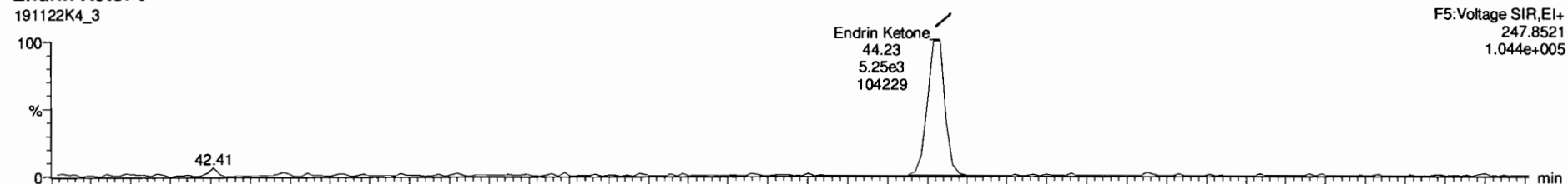
Method: U:\VG11.PRO\MethDB\1699_GC-break.mdb 22 Nov 2019 15:38:12
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

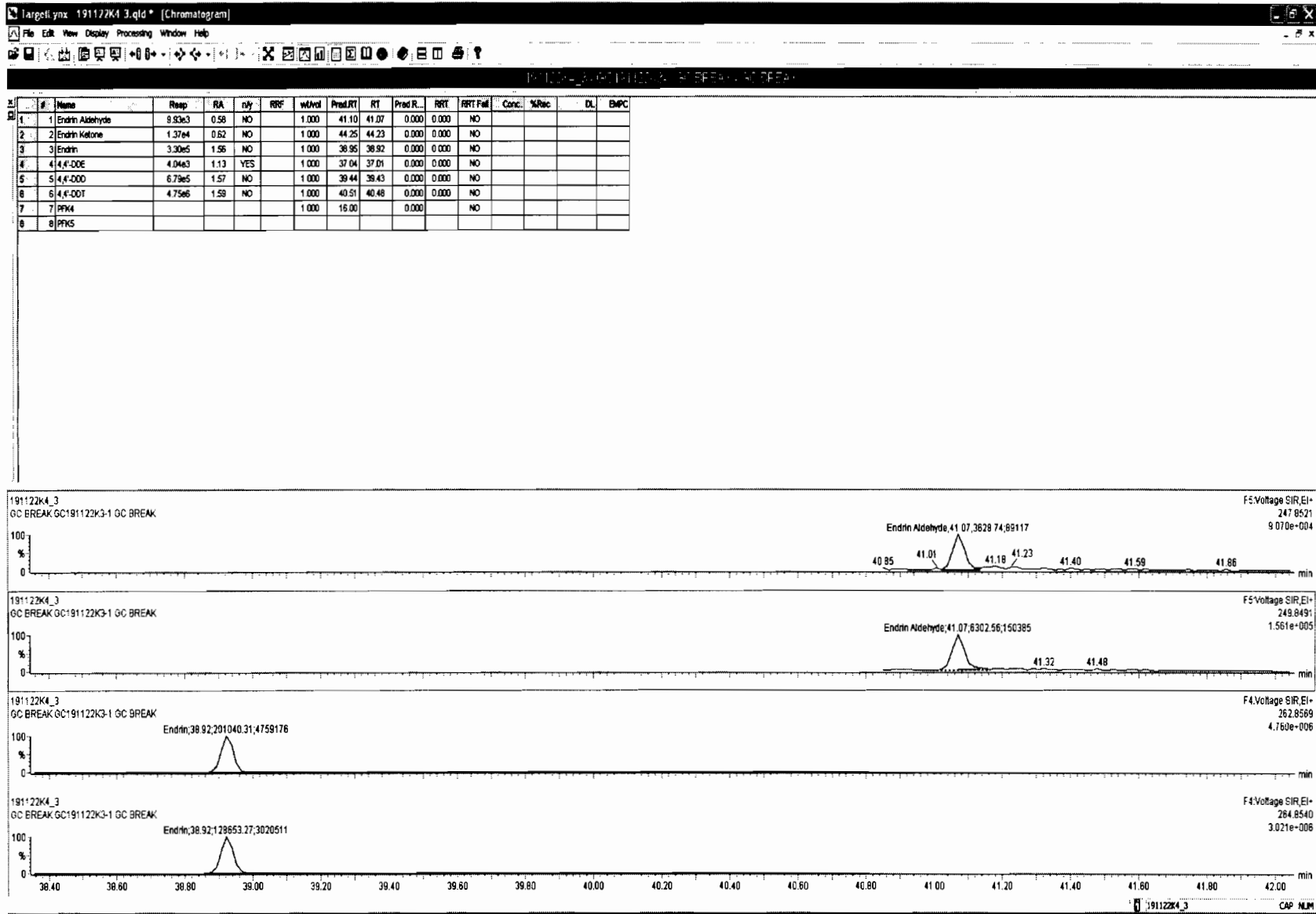
Name: 191122K4_3, Date: 23-Nov-2019, Time: 10:13:54, ID: GC191122K3-1 GC BREAK, Description: GC BREAK

Endrin Aldehyde



Endrin Ketone





Dataset: Untitled

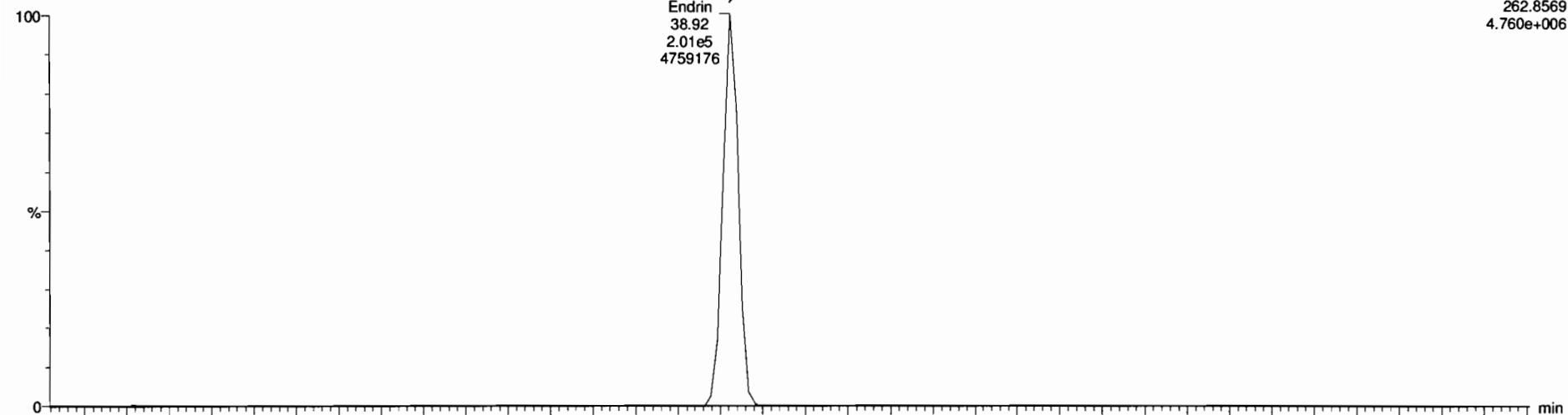
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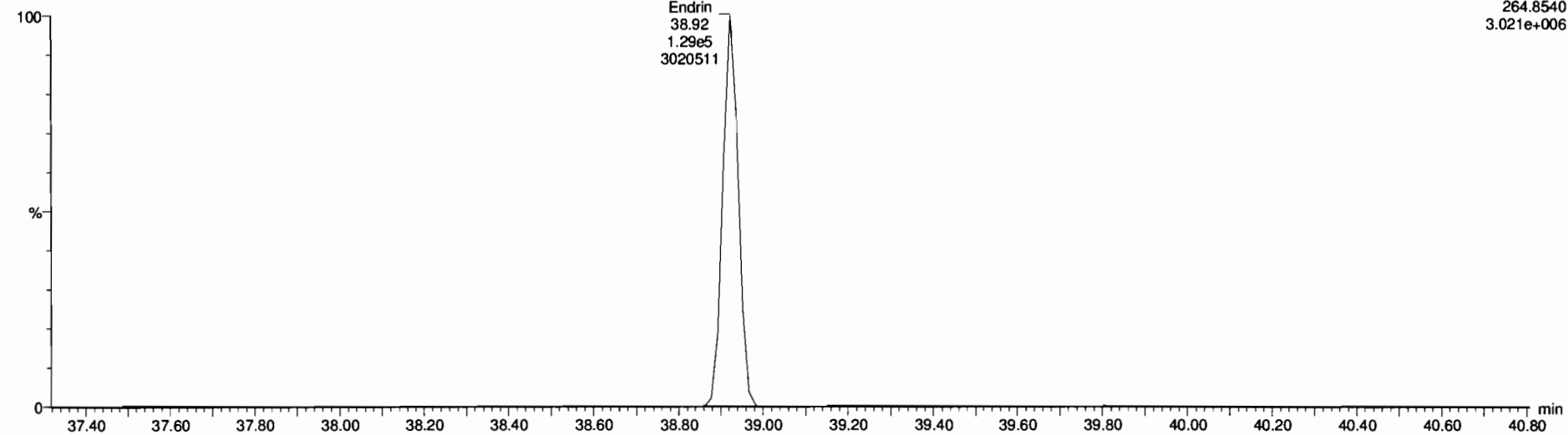
Name: 191122K4_3, Date: 23-Nov-2019, Time: 10:13:54, ID: GC191122K3-1 GC BREAK, Description: GC BREAK

Endrin

191122K4_3



191122K4_3



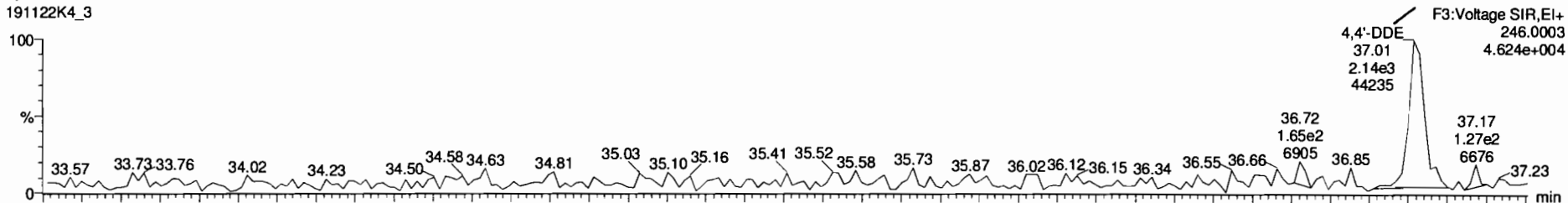
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Printed: Sunday, November 24, 2019 15:30:21 Pacific Standard Time

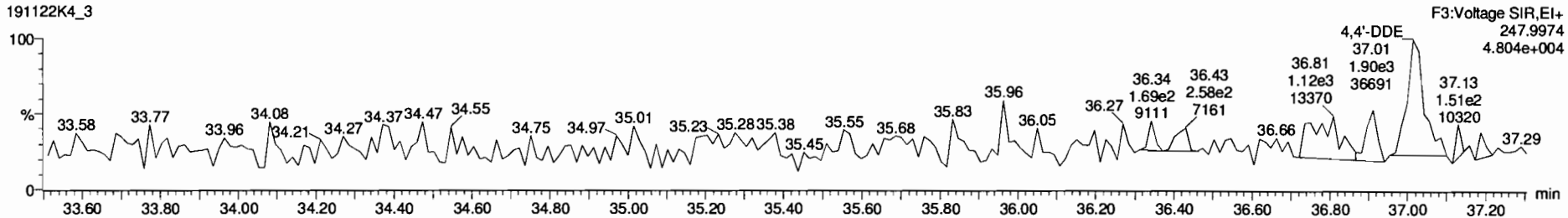
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4,4'-DDE

191122K4_3

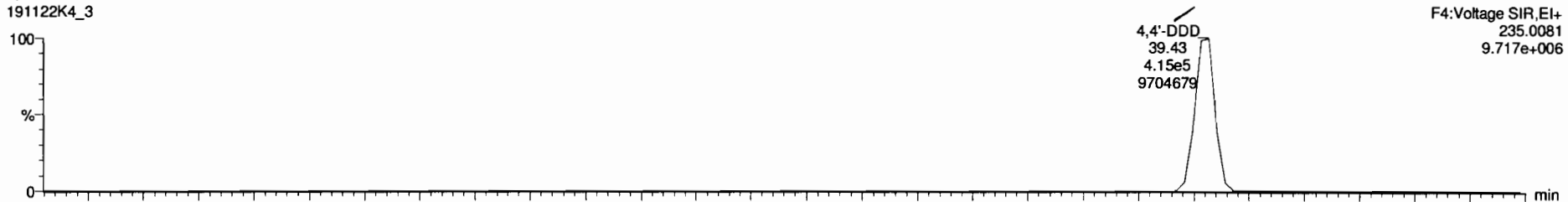


191122K4_3

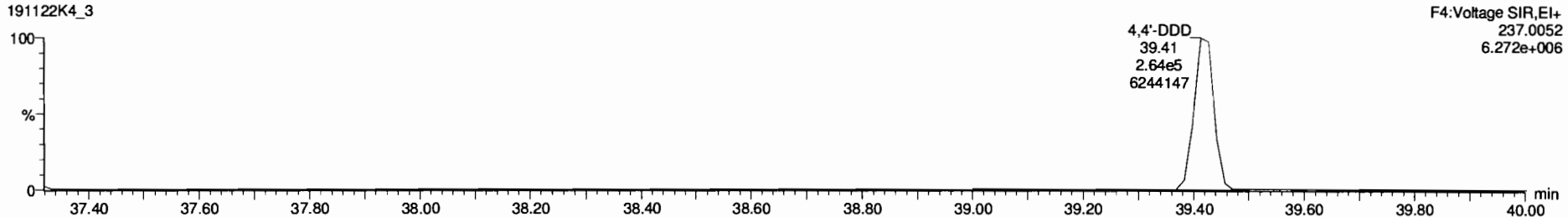


4,4'-DDD

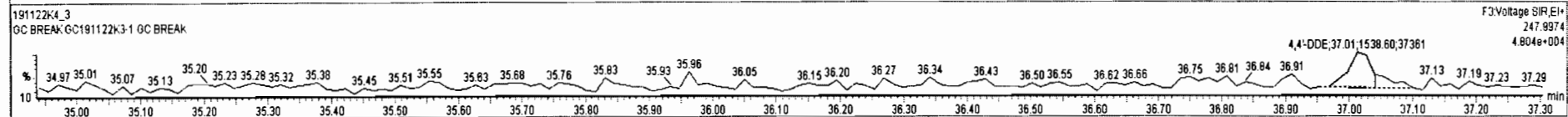
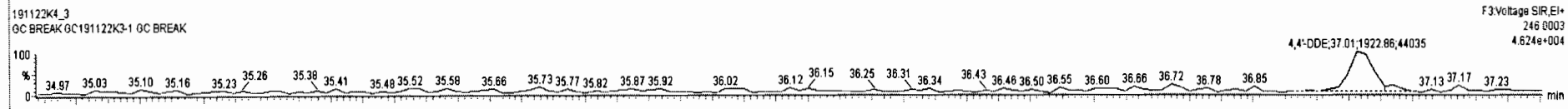
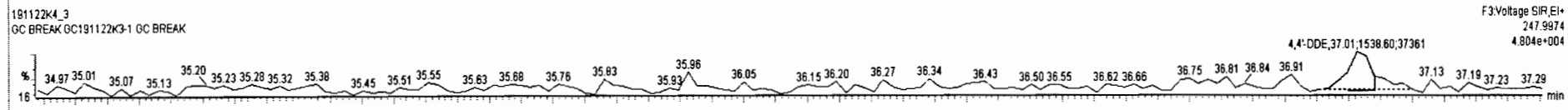
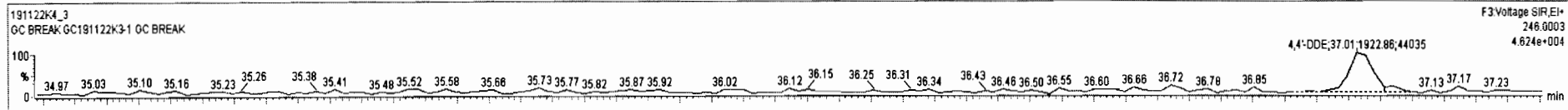
191122K4_3



191122K4_3



#	Name	Resp	RA	n/y	R/F	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fall	Conc.	%Rec	DL	EMPC
1	Endrin Aldehyde	9.93e3	0.58	NO		1.000	41.10	41.07	0.000	0.000	NO				
2	Endrin Ketone	1.37e4	0.62	NO		1.000	44.25	44.23	0.000	0.000	NO				
3	Endrin	3.30e5	1.56	NO		1.000	38.95	38.92	0.000	0.000	NO				
4	4,4'-DDE	3.48e3	1.26	NO		1.000	37.04	37.01	0.000	0.000	NO				
5	4,4'-DDD	6.79e5	1.57	NO		1.000	39.44	39.43	0.000	0.000	NO				
6	4,4'-DDT	4.75e6	1.59	NO		1.000	40.51	40.48	0.000	0.000	NO				
7	PFK4					1.000	16.00		0.000		NO				
8	PFK5														



Dataset: Untitled

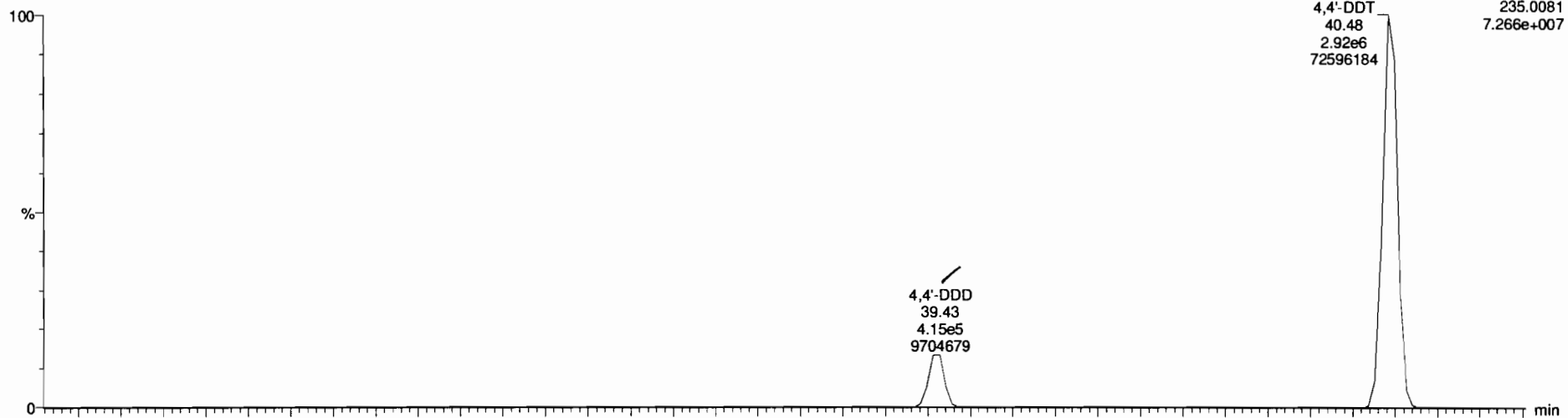
Last Altered: Sunday, November 24, 2019 15:29:53 Pacific Standard Time

Printed: Sunday, November 24, 2019 15:30:21 Pacific Standard Time

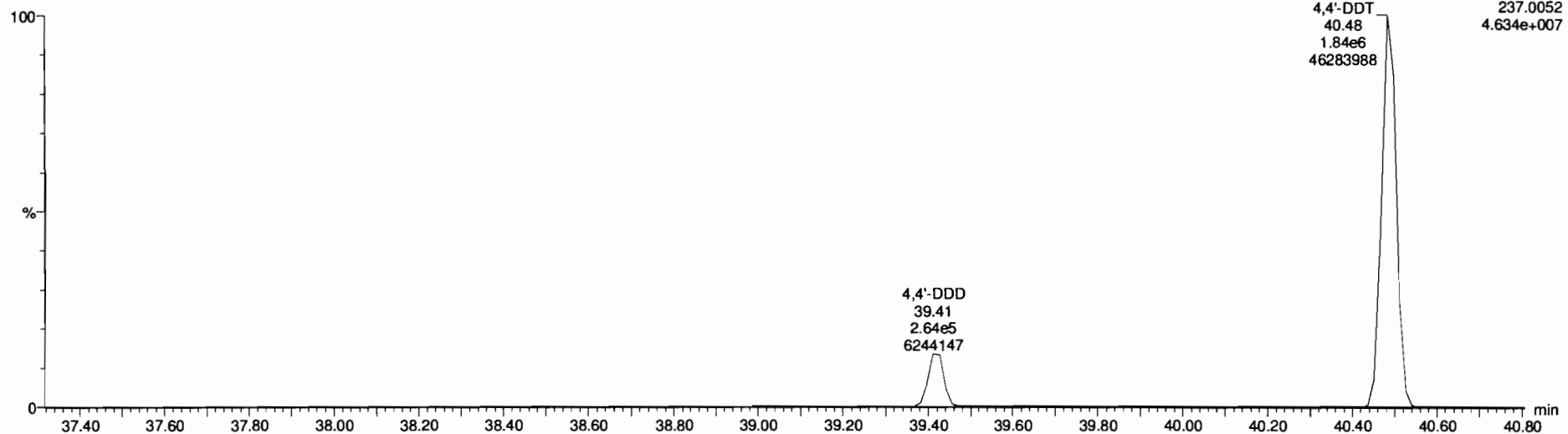
Name: 191122K4_3, Date: 23-Nov-2019, Time: 10:13:54, ID: GC191122K3-1 GC BREAK, Description: GC BREAK

4,4'-DDT

191122K4_3



191122K4_3



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"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" 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"/>	<input checked="" type="checkbox"/>
- Bottle position verified?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Mass resolution ≥

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

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

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

Comments:

Ⓐ 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

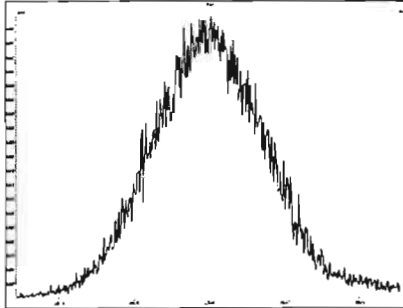
Compound name: Hexachlorobutadiene

	Name	ID	Acq.Date	Acq.Time
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

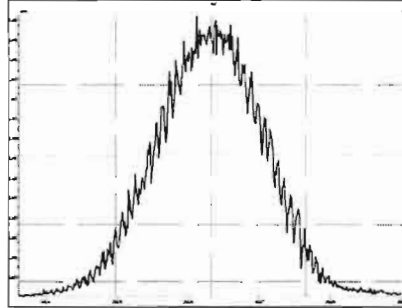
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Printed: Saturday, February 01, 2020 13:50:57 Pacific Standard Time

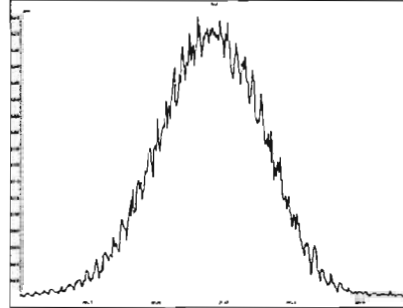
M 254.9856 R 7141



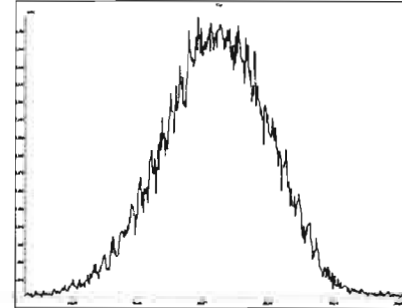
M 268.9824 R 8278



M 280.9824 R 7835



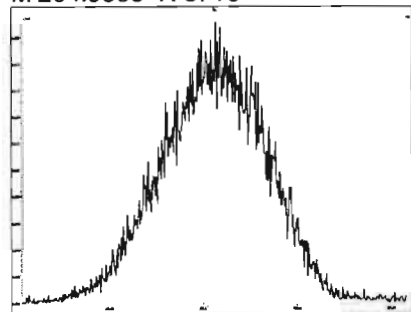
M 292.9824 R 7737



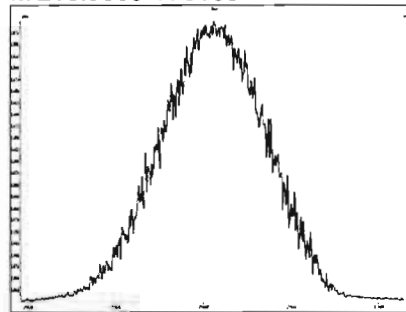
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Printed: Saturday, February 01, 2020 13:51:34 Pacific Standard Time

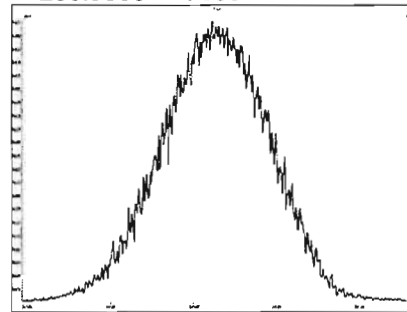
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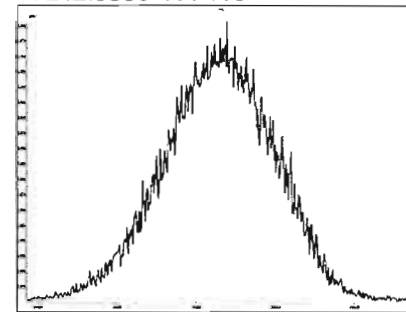
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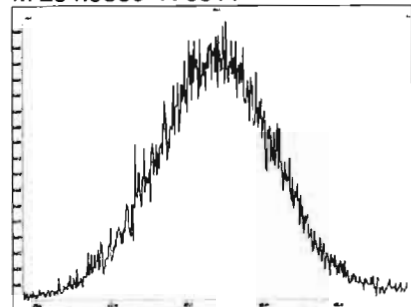
M 230.9856 R 7860



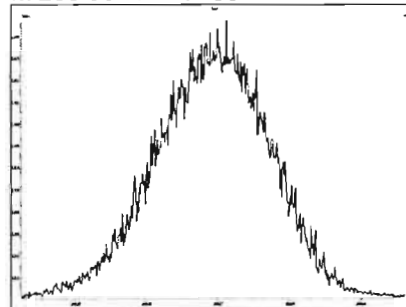
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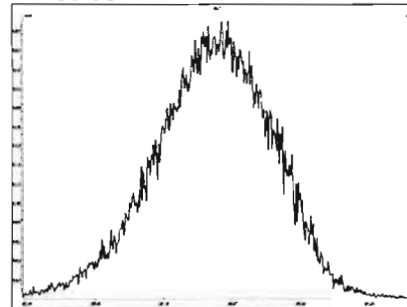
M 254.9856 R 6511



M 268.9824 R 7185



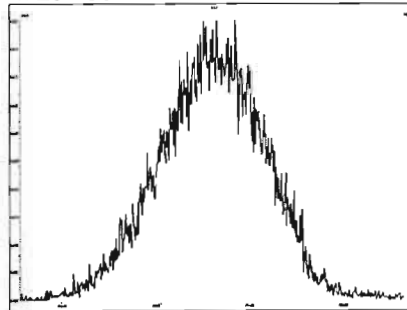
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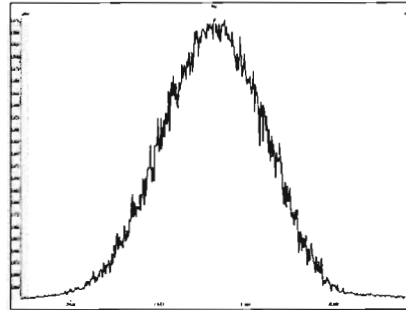
File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, February 01, 2020 13:52:22 Pacific Standard Time

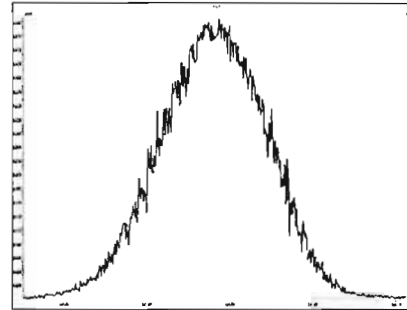
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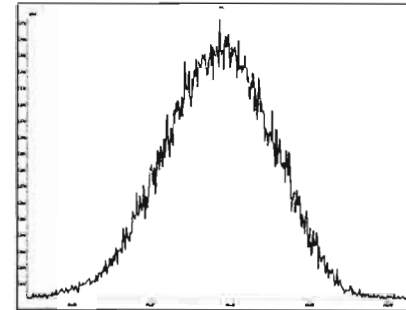
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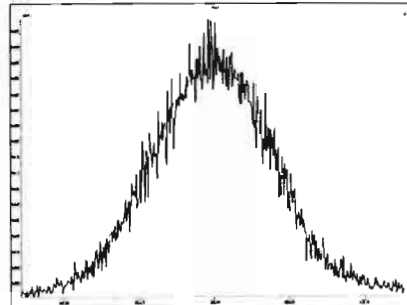
M 230.9856 R 7739



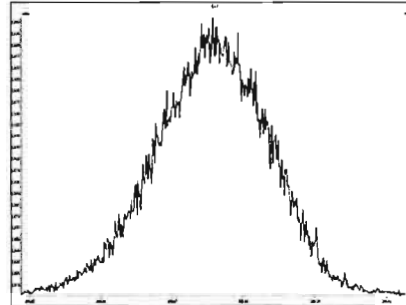
M 242.9856 R 7310



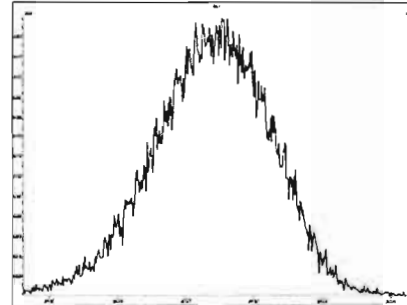
M 254.9856 R 6494



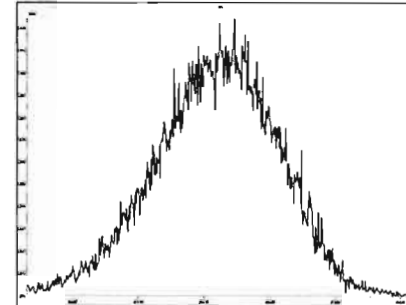
M 268.9824 R 7024



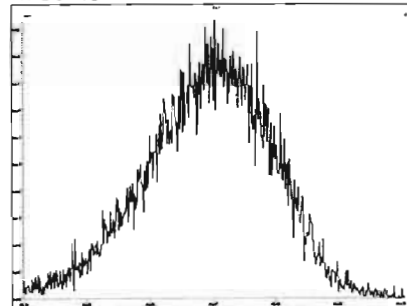
M 280.9824 R 7204



M 292.9824 R 6814



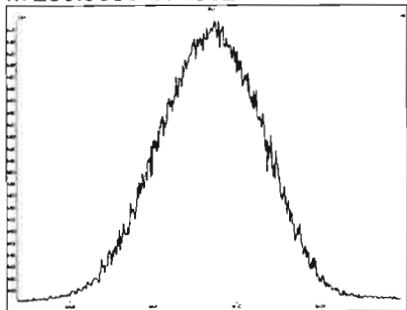
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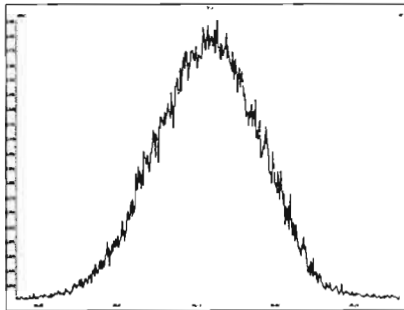
File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, February 01, 2020 13:53:46 Pacific Standard Time

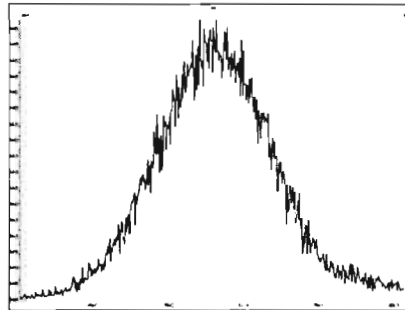
M 230.9856 R 7862



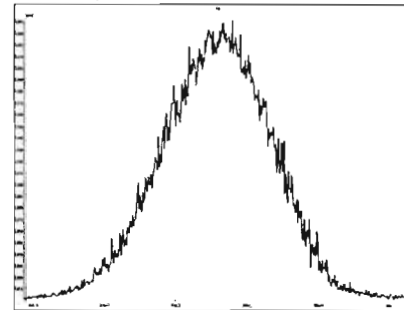
M 242.9856 R 7960



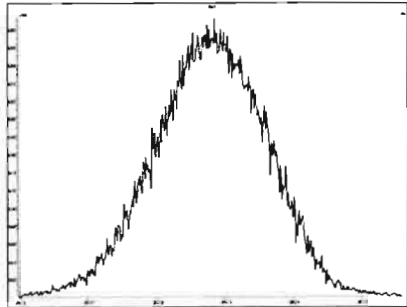
M 254.9856 R 6686



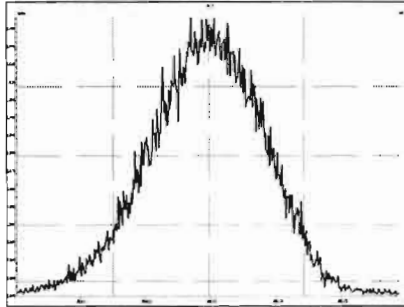
M 268.9824 R 7574



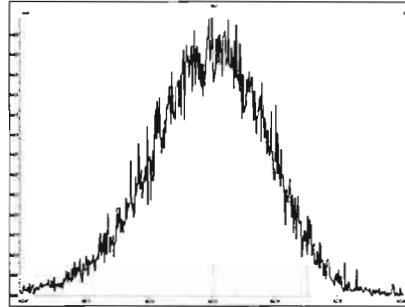
M 280.9824 R 8061



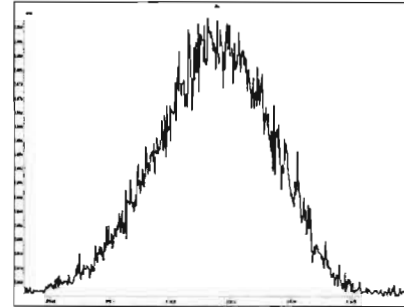
M 292.9824 R 7440



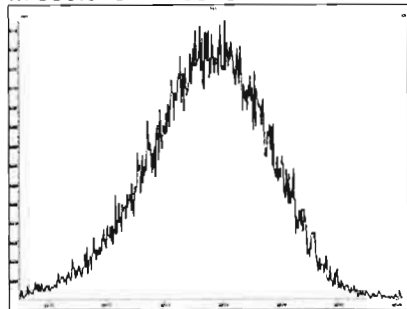
M 304.9824 R 7644



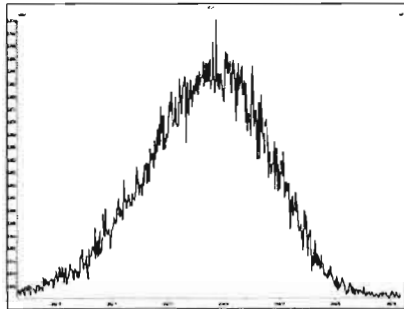
M 318.9792 R 7332



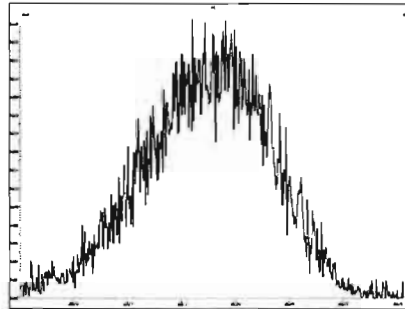
M 330.9792 R 6576



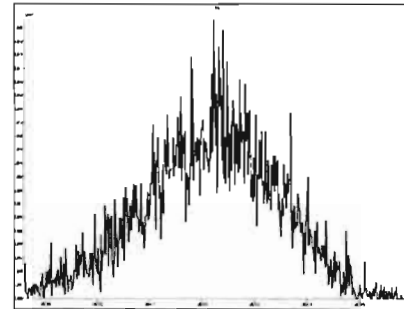
M 342.9792 R 6795



M 354.9792 R 6408



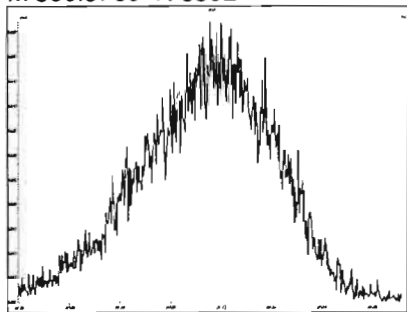
M 366.9792 R 8305



File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, February 01, 2020 13:53:46 Pacific Standard Time

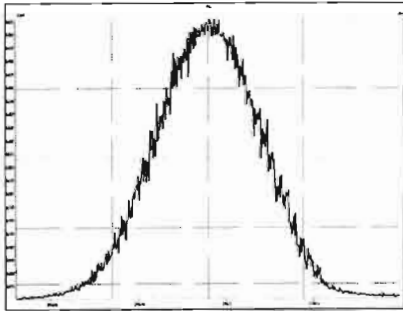
M 380.9760 R 6392



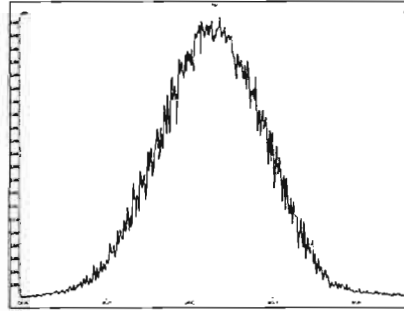
File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, February 01, 2020 13:54:33 Pacific Standard Time

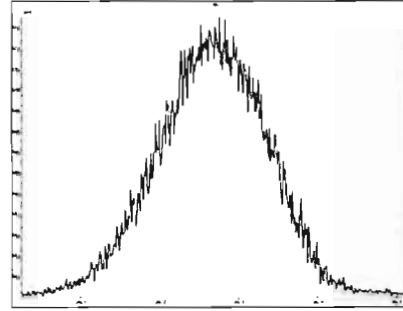
M 218.9856 R 7961



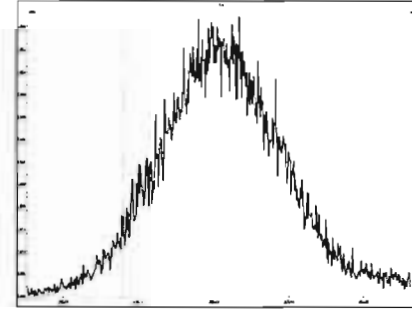
M 230.9856 R 7985



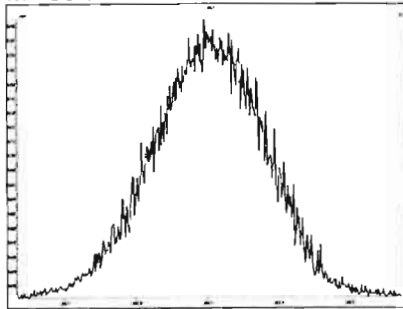
M 242.9856 R 8012



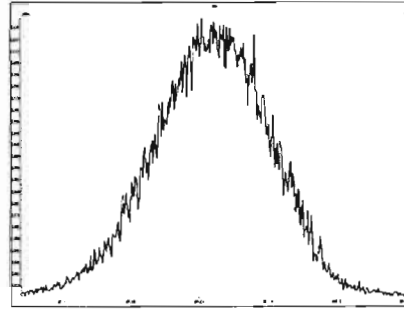
M 254.9856 R 6394



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

GPB 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

$$\frac{EA + EK}{E} \times 100\% = \underline{1.39\%}$$

$$\frac{DDE + DDD}{DDT} \times 100\% = \underline{0.19\%}$$

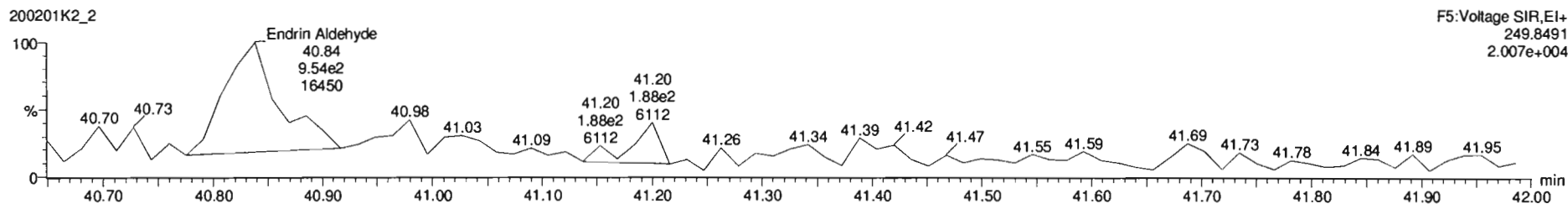
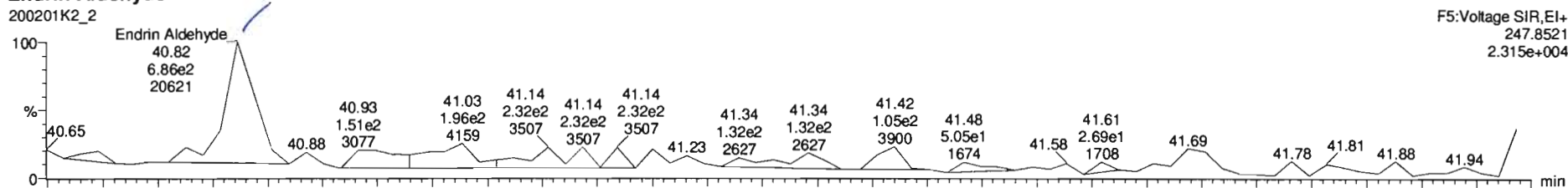
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:20:24 Pacific Standard Time
Printed: Sunday, February 02, 2020 12:21:08 Pacific Standard Time

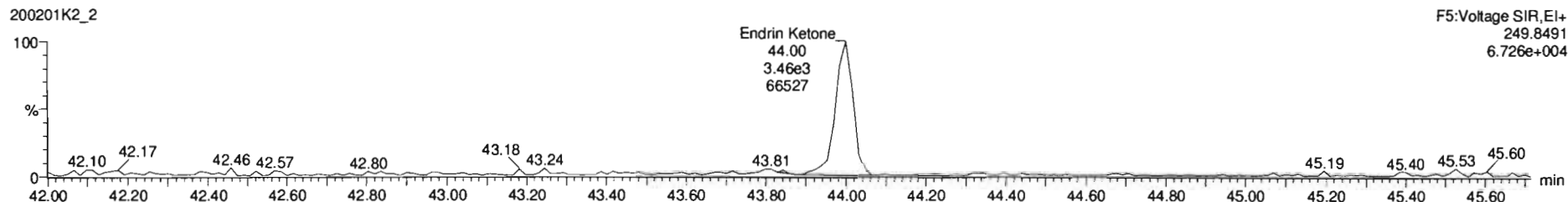
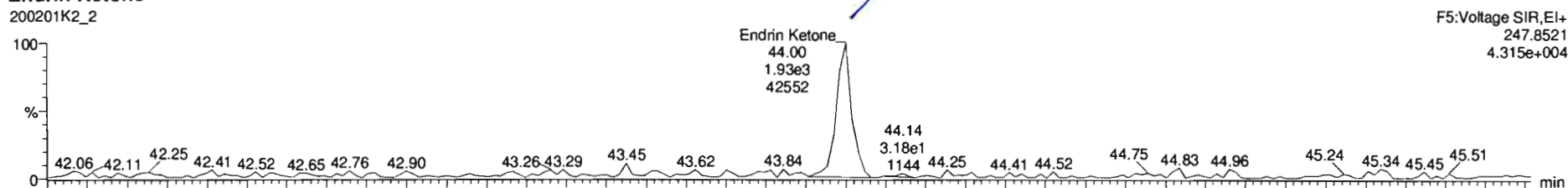
Method: U:\VG11.PRO\MethDB\1699_GC-break.mdb 26 Jan 2020 09:58:44
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_2, Date: 01-Feb-2020, Time: 14:43:33, ID: GC200201K2-1 GC BREAK, Description: GC BREAK

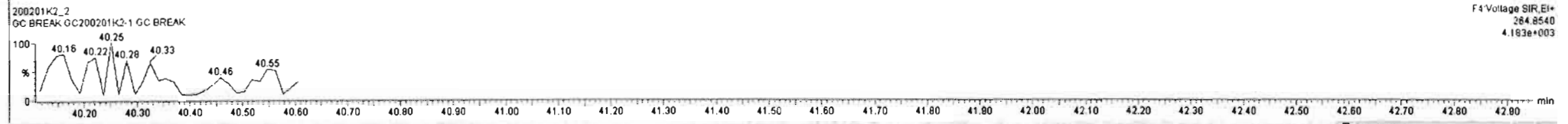
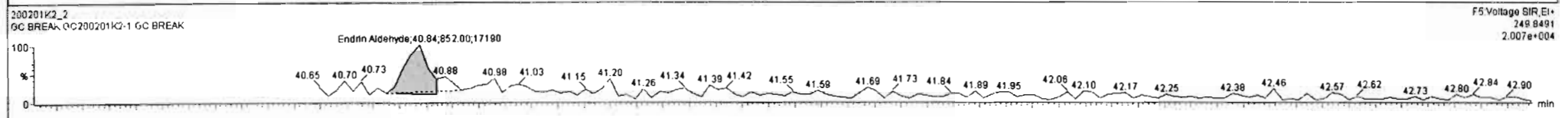
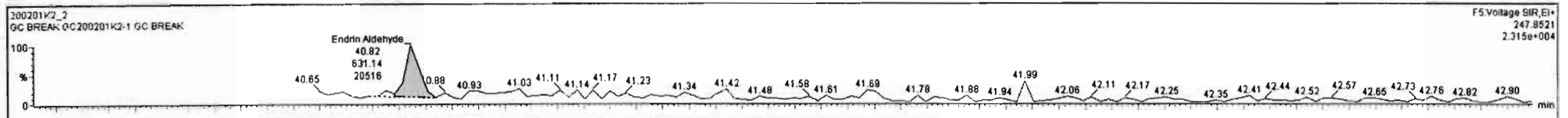
Endrin Aldehyde



Endrin Ketone



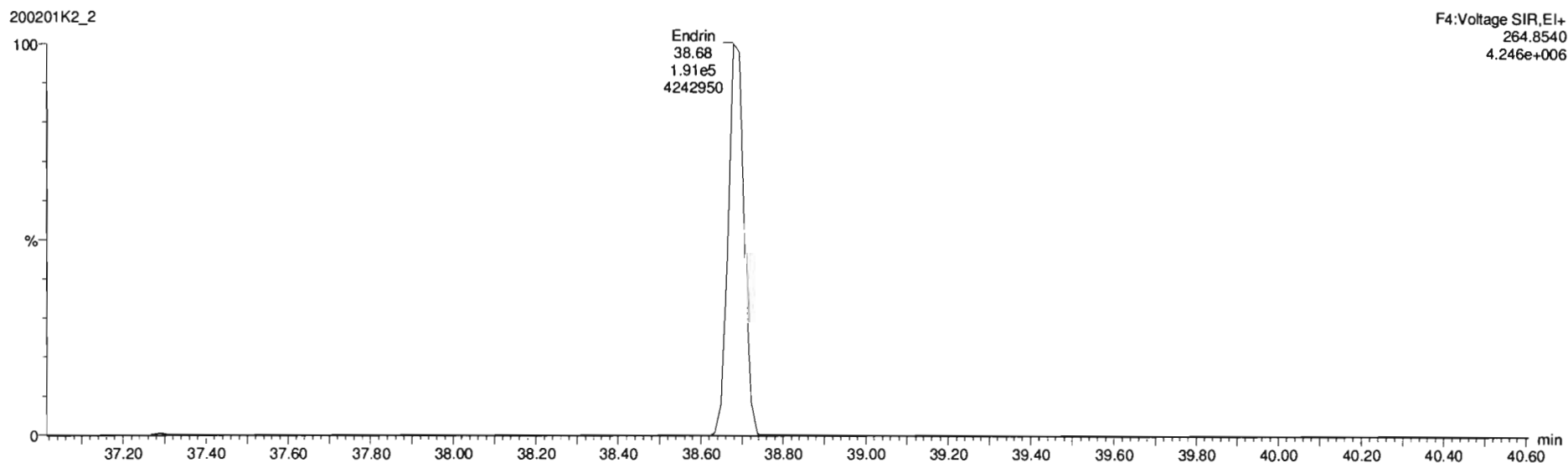
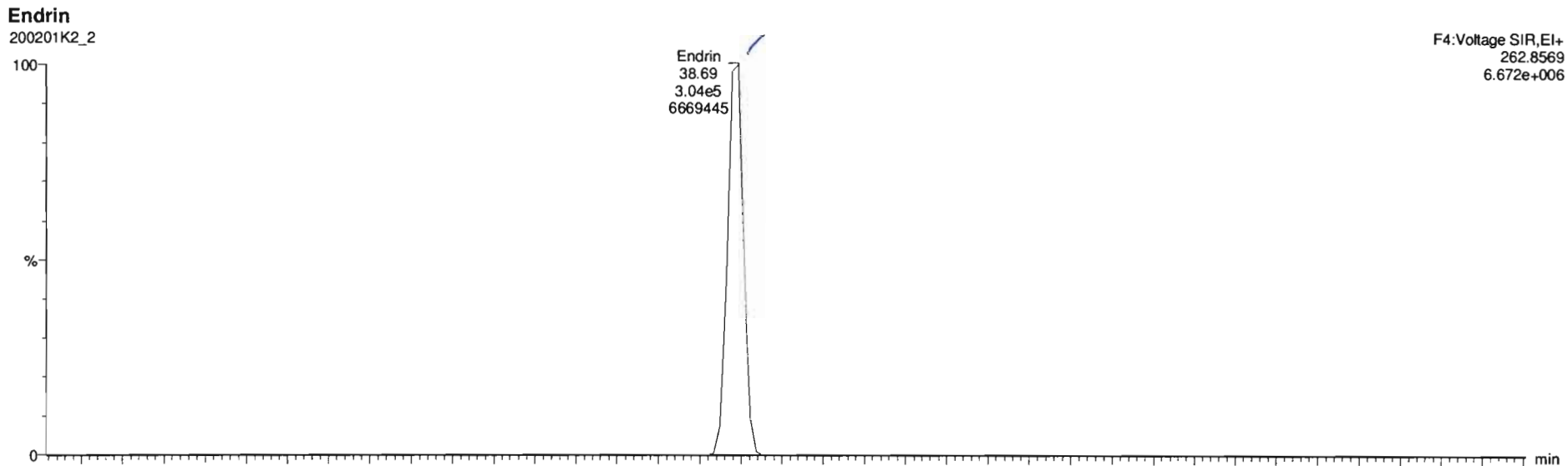
Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 Endrin Aldehyde	1.48e3	0.74	NO		1.000	40.82	0.000				
2 Endrin Ketone	5.39e3	0.58	NO		1.000	44.00	0.000				
3 Endrin	4.95e5	1.59	NO		1.000	38.69	0.000				
4 4,4'-DDE			NO		1.000						
5 4,4'-DDD	1.71e4	1.55	NO		1.000	39.18	0.000				
6 4,4'-DDT	9.25e6	1.57	NO		1.000	40.24	0.000				
7 PFK4					1.000						
8 PFK5											



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



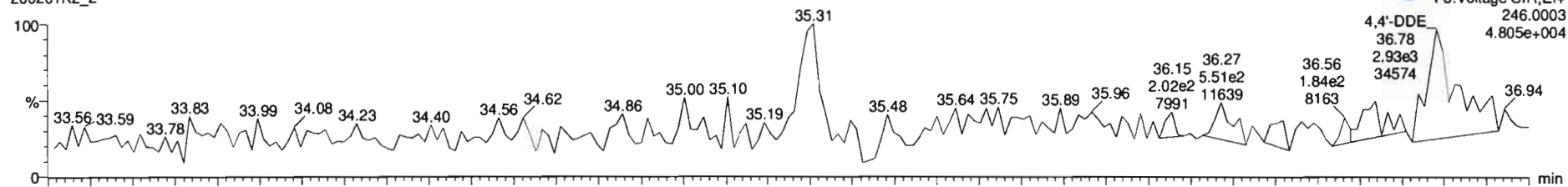
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:20:24 Pacific Standard Time
Printed: Sunday, February 02, 2020 12:21:08 Pacific Standard Time

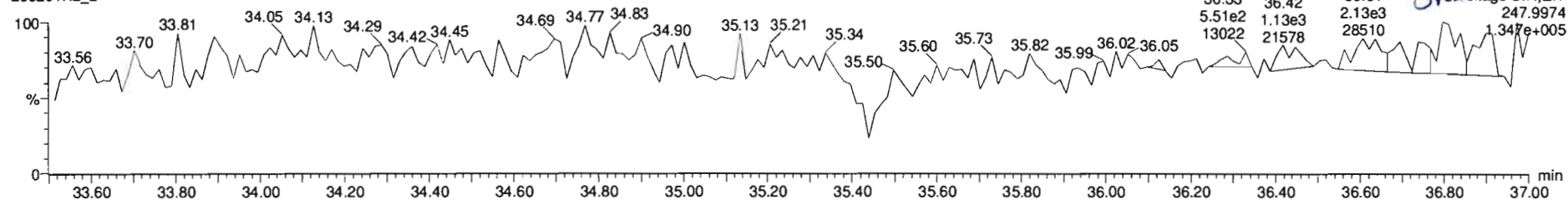
Name: 200201K2_2, Date: 01-Feb-2020, Time: 14:43:33, ID: GC200201K2-1 GC BREAK, Description: GC BREAK

4,4'-DDE

200201K2_2

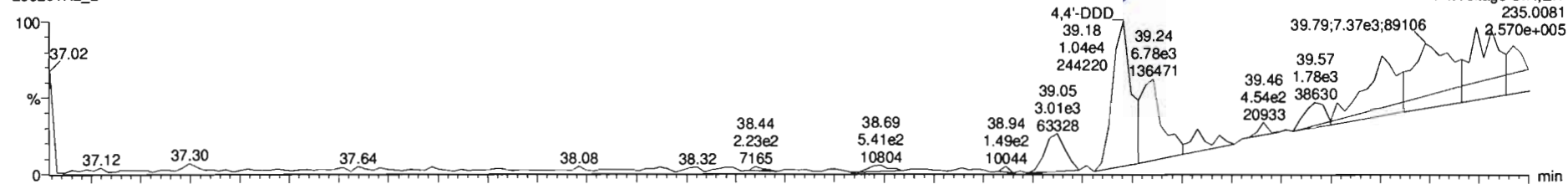


200201K2_2

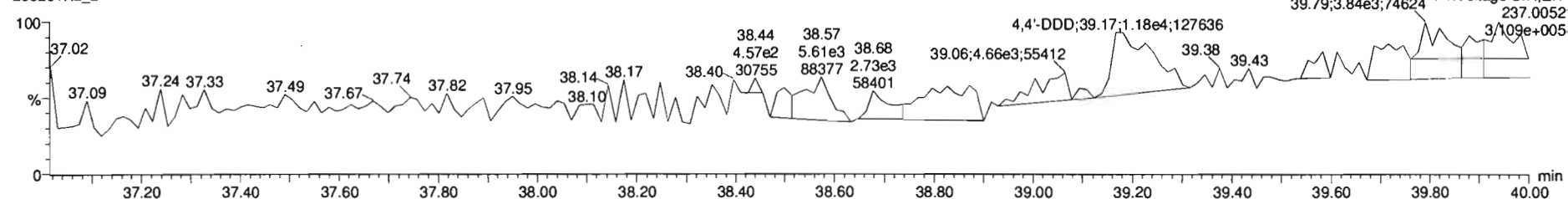


4,4'-DDD

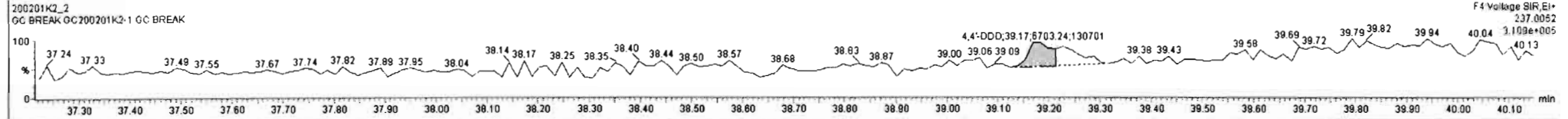
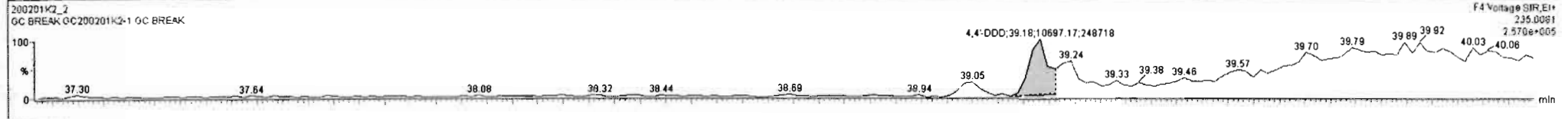
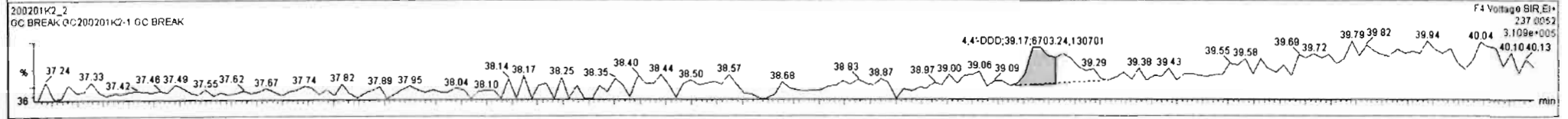
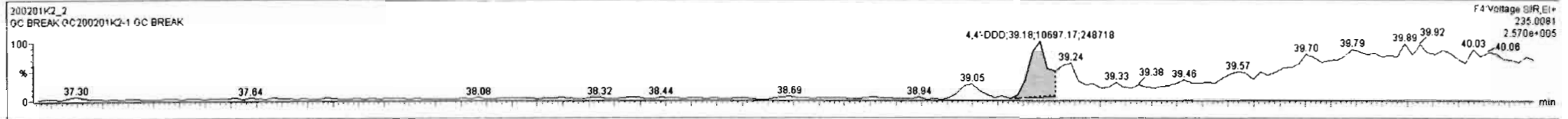
200201K2_2



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											

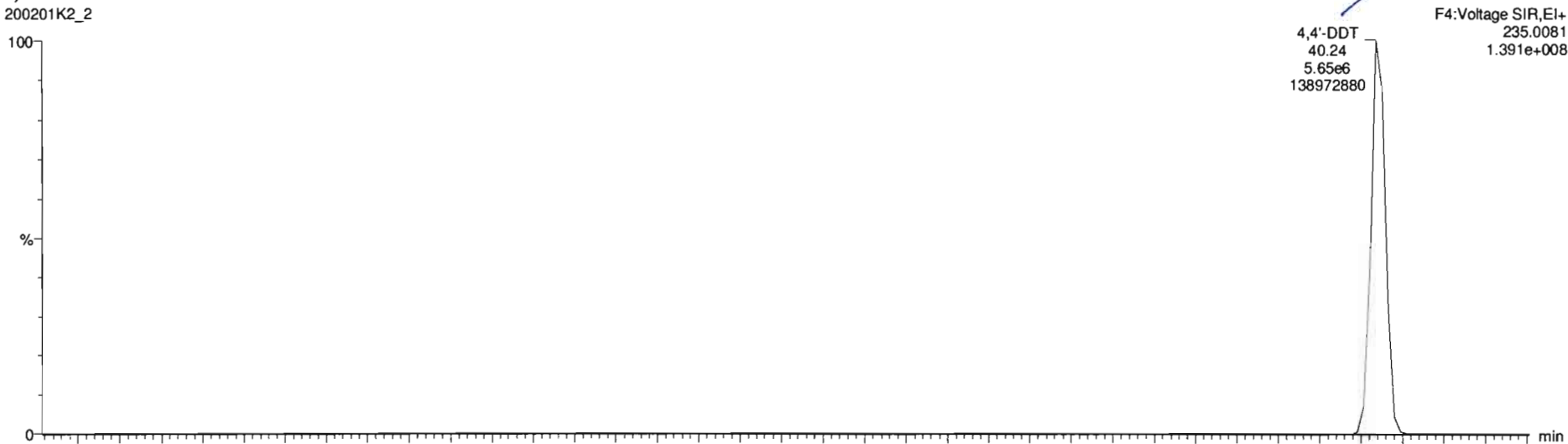


Dataset: Untitled

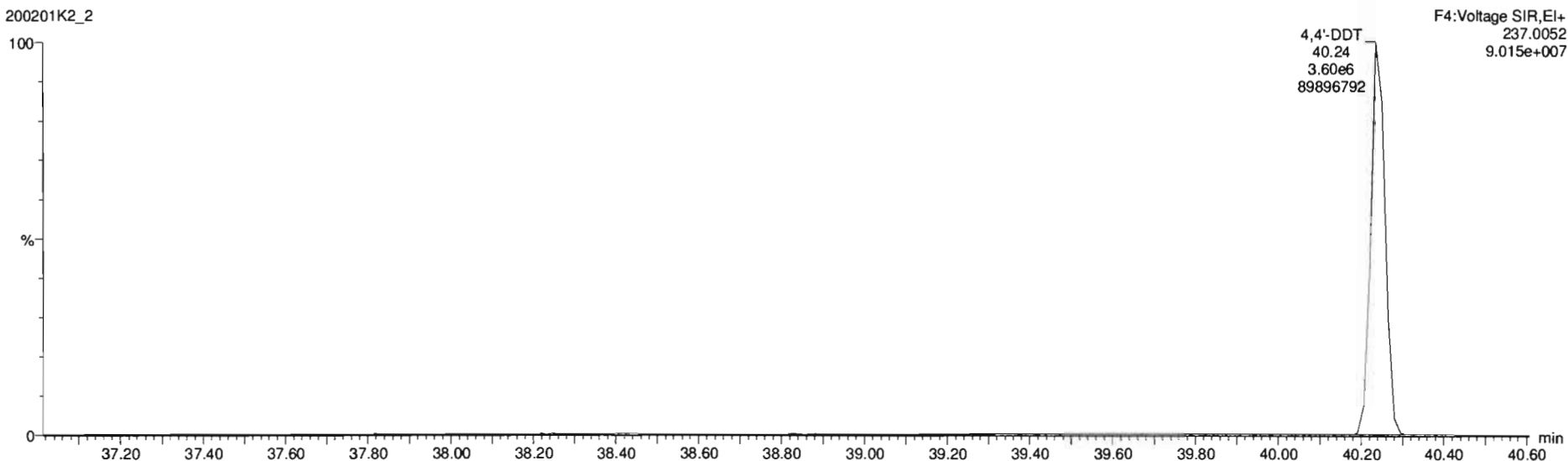
Last Altered: Sunday, February 02, 2020 12:20:24 Pacific Standard Time
Printed: Sunday, February 02, 2020 12:21:08 Pacific Standard Time

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

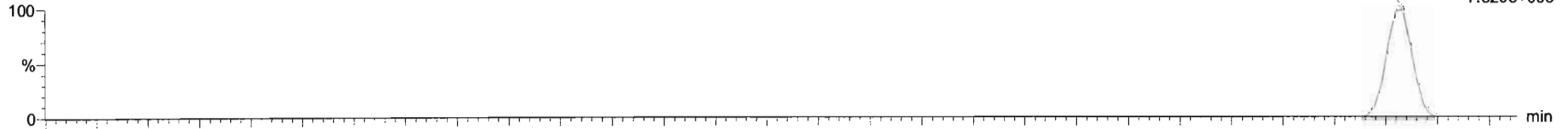
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Hexachlorobenzene

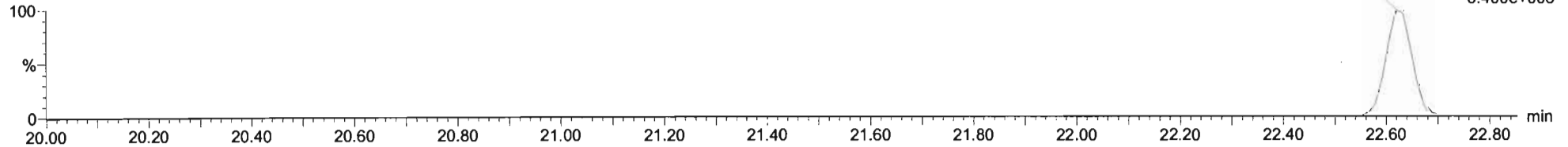
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

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

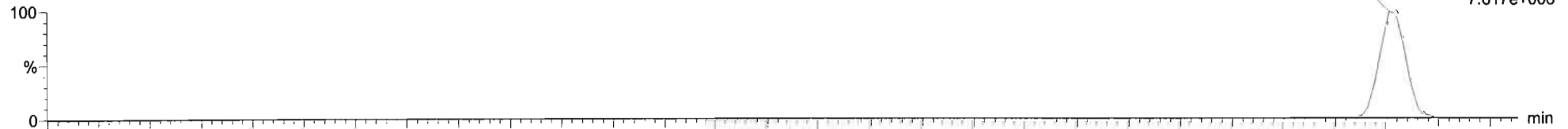
F1:Voltage SIR,EI+
Hexachlorobenzene;22.62;3.79e5;6391543;bb;9710.80
285.8072
6.400e+006



13C6-Hexachlorobenzene

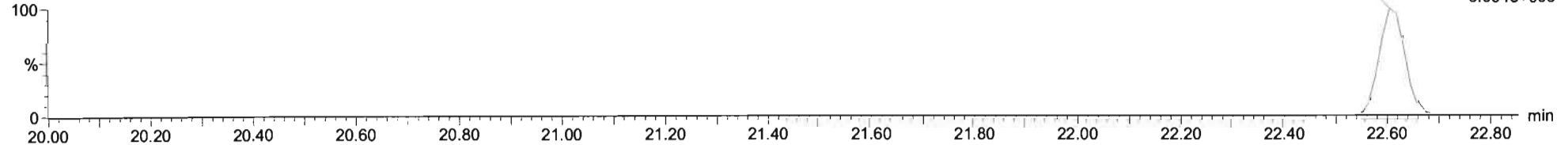
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

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



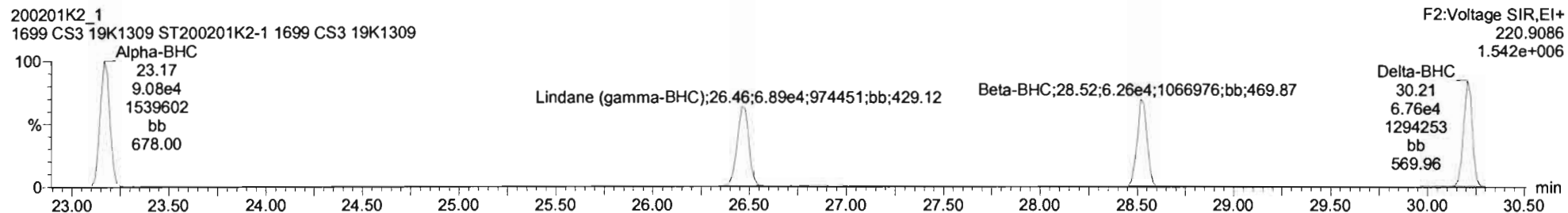
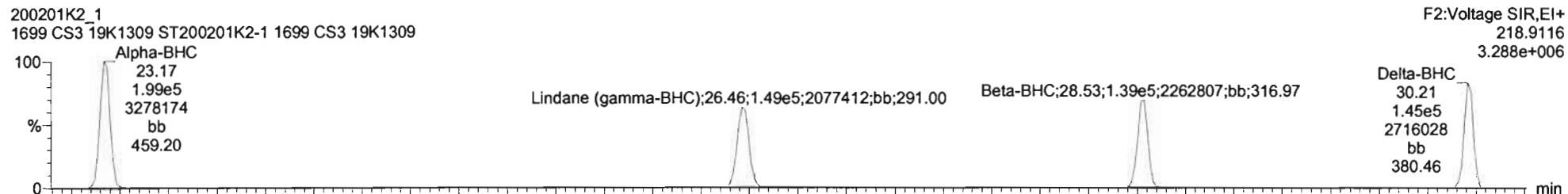
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

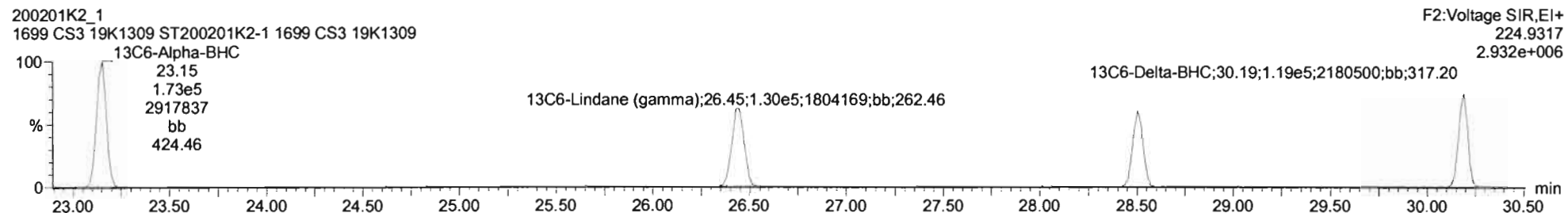
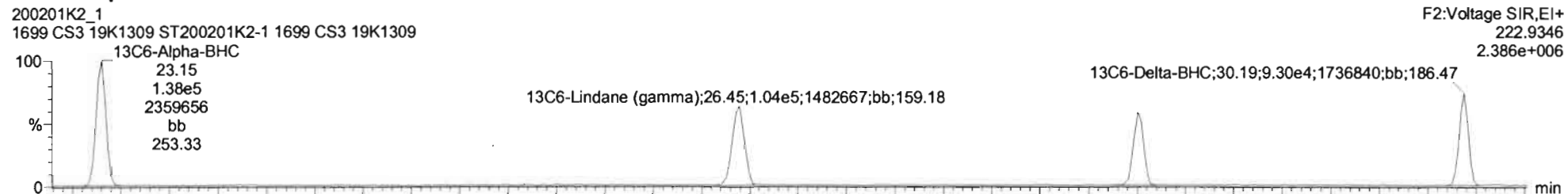
Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

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

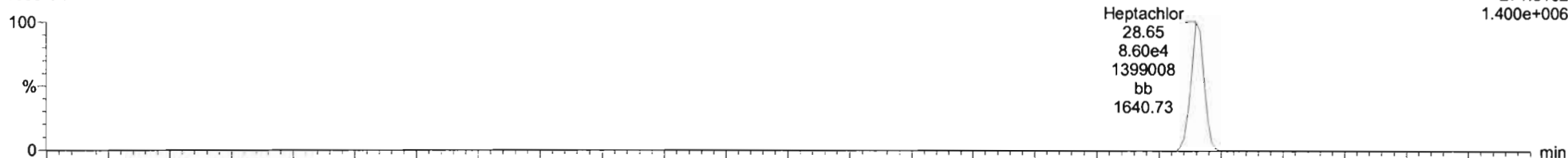
Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Heptachlor

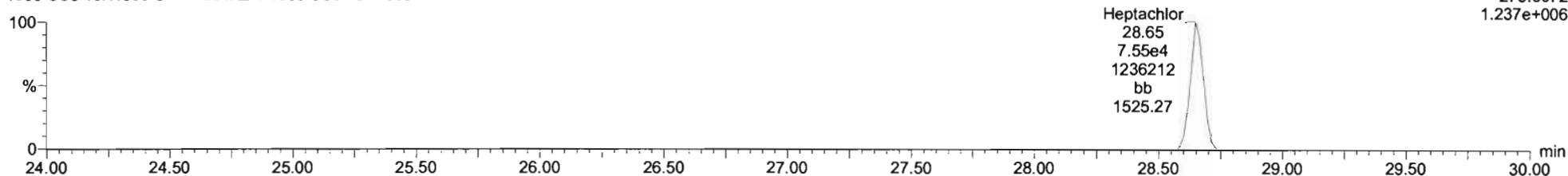
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F2:Voltage SIR,EI+
271.8102
1.400e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

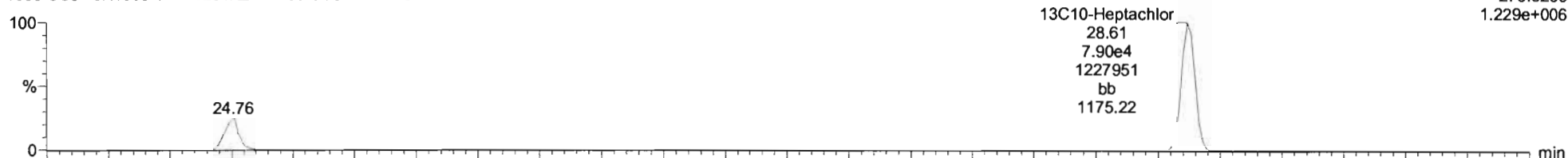
F2:Voltage SIR,EI+
273.8072
1.237e+006



13C10-Heptachlor

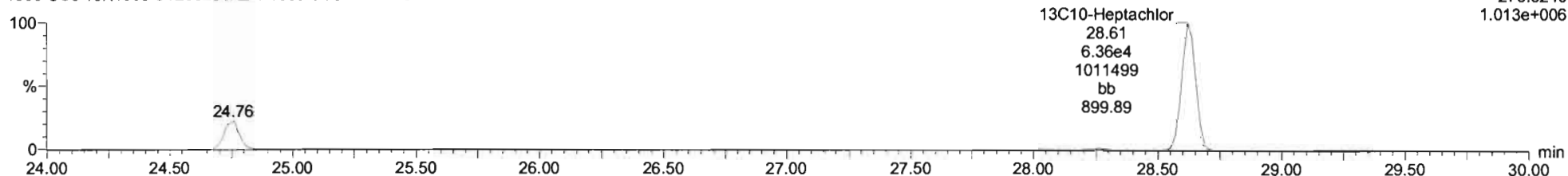
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

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

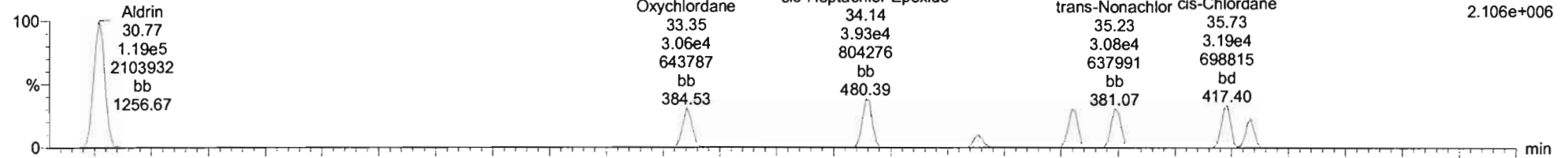
Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Aldrin-EI

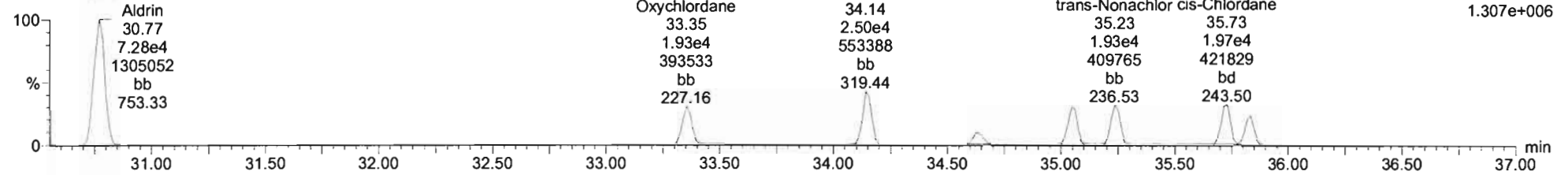
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F3:Voltage SIR,EI+
262.8569
2.106e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

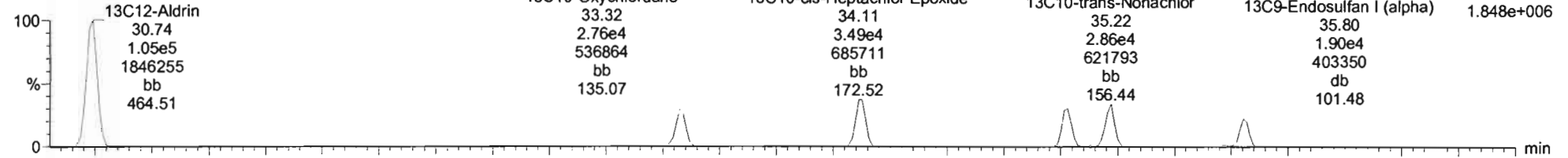
F3:Voltage SIR,EI+
264.8550
1.307e+006



Aldrin-EI-isotopes

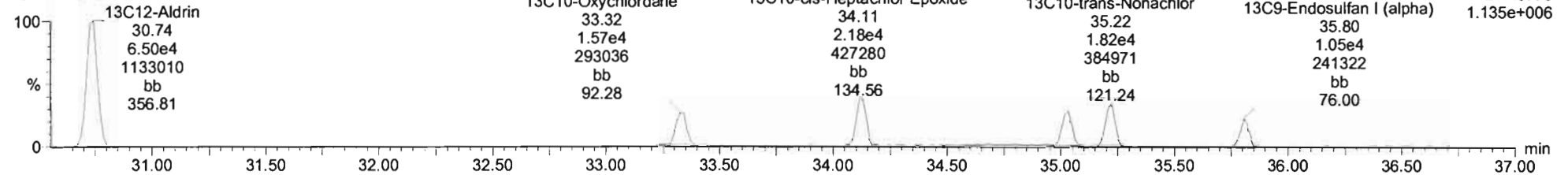
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F3:Voltage SIR,EI+
269.8804
1.848e+006

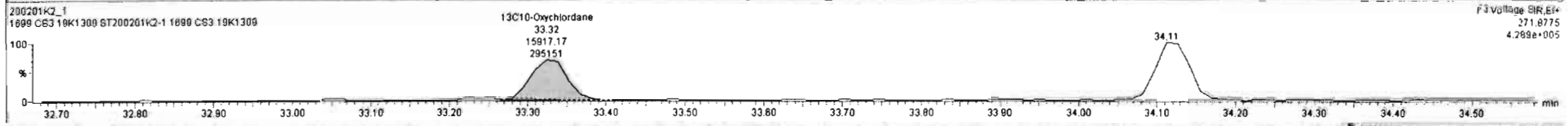
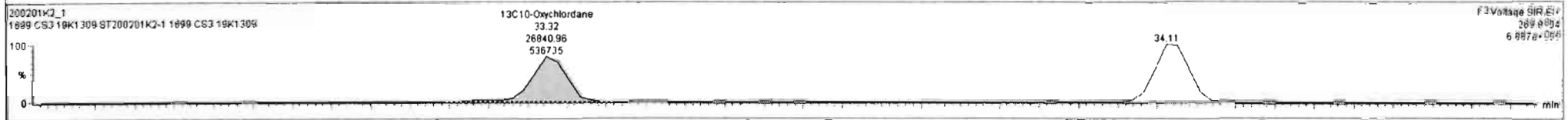
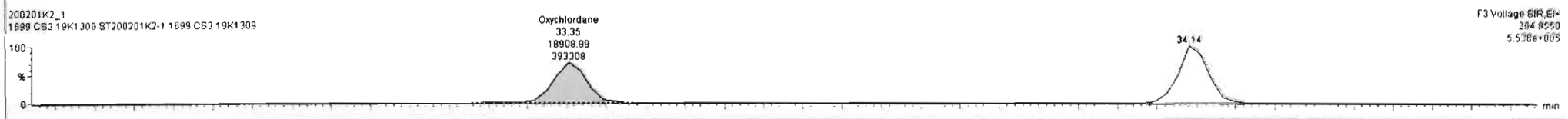
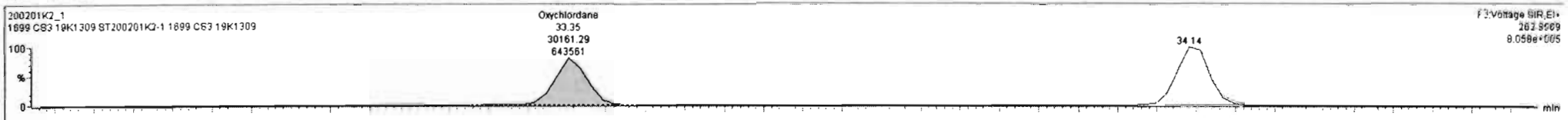


200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

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

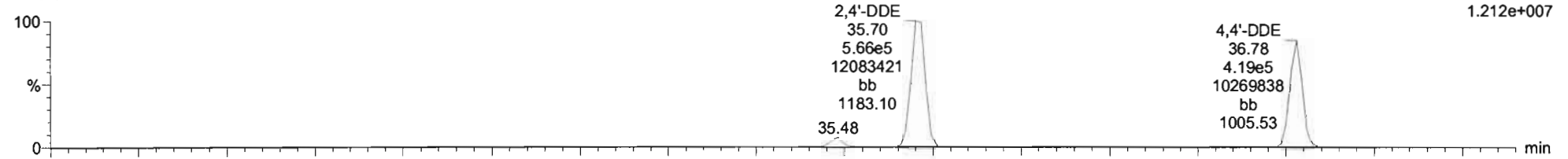
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Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

DDMU-DDE

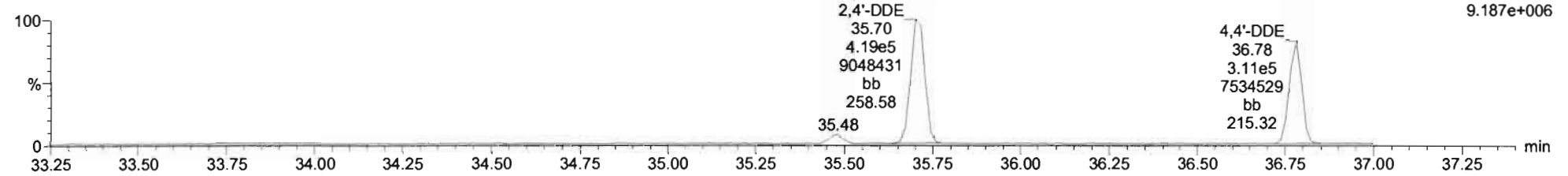
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F3:Voltage SIR,EI+
246.0003
1.212e+007



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

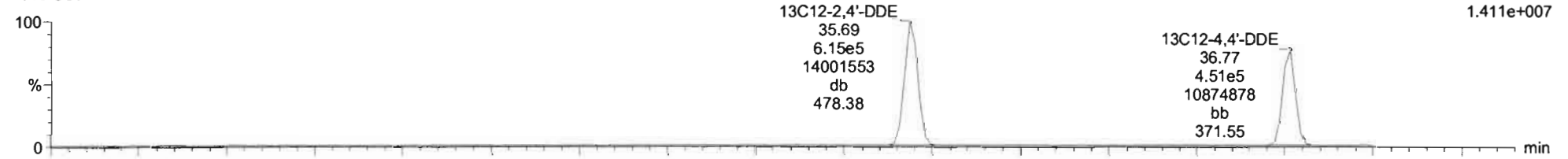
F3:Voltage SIR,EI+
247.9974
9.187e+006



DDE-isotopes

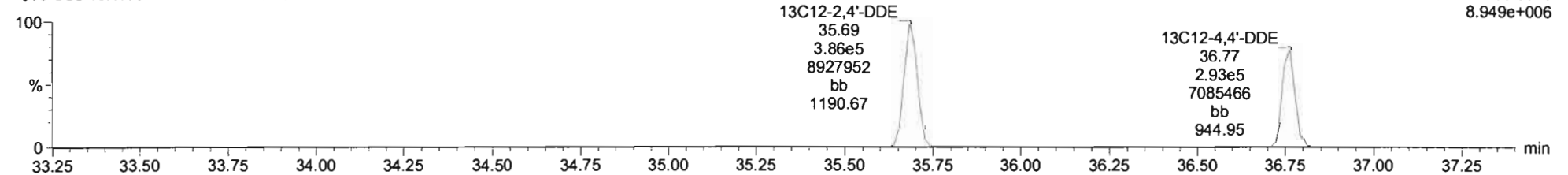
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

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

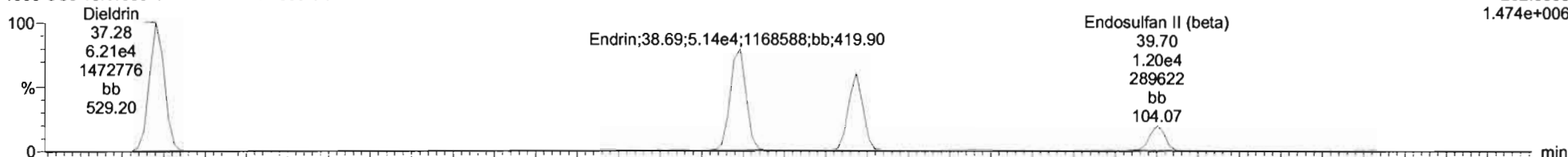
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Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Dieldrin-EII

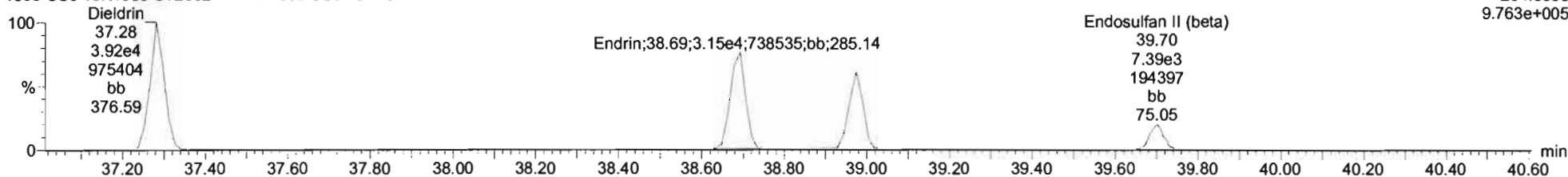
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F4:Voltage SIR,EI+
262.8569
1.474e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

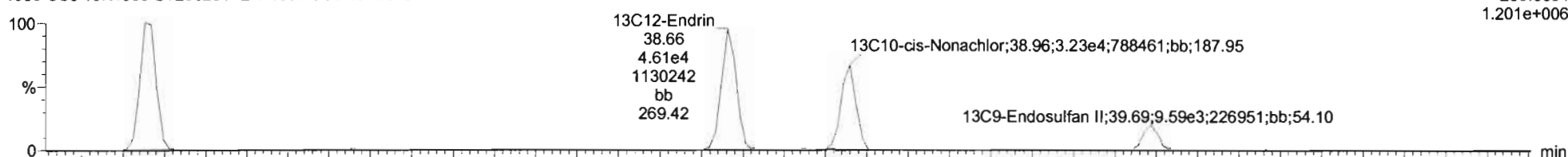
F4:Voltage SIR,EI+
264.8550
9.763e+005



Dieldrin-EII-isotopes

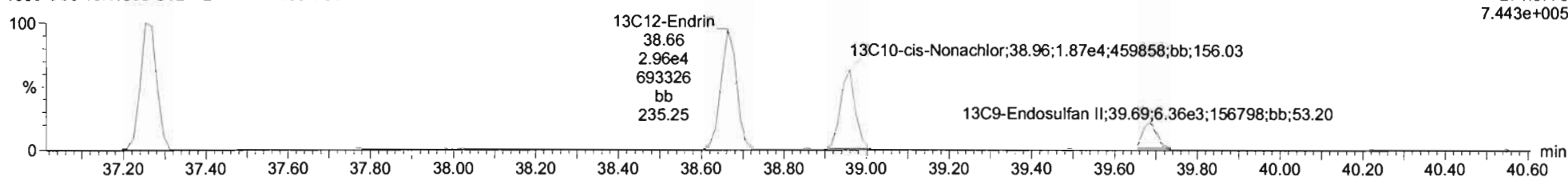
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

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



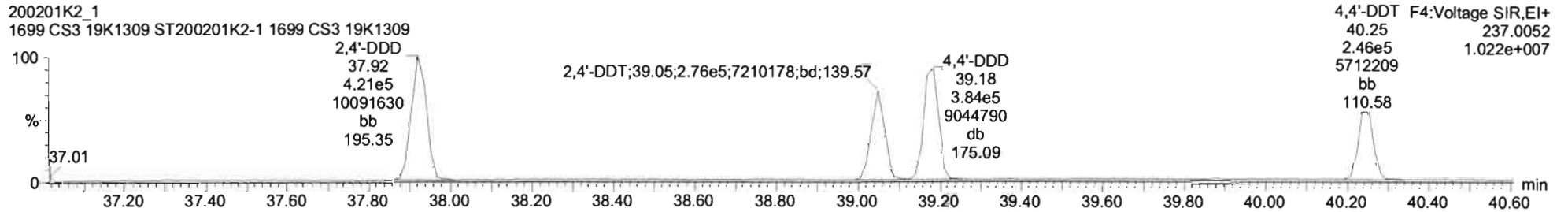
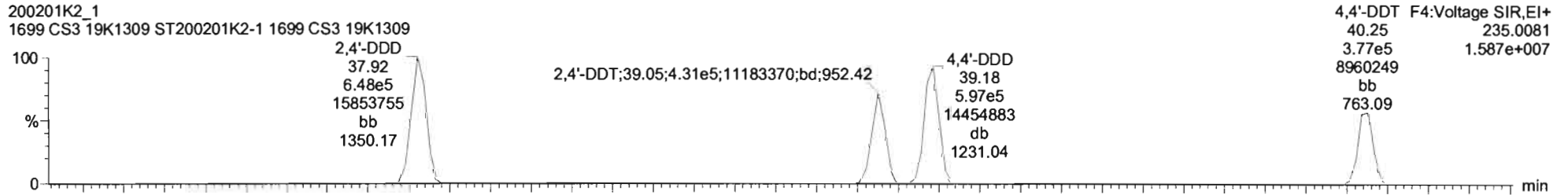
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Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

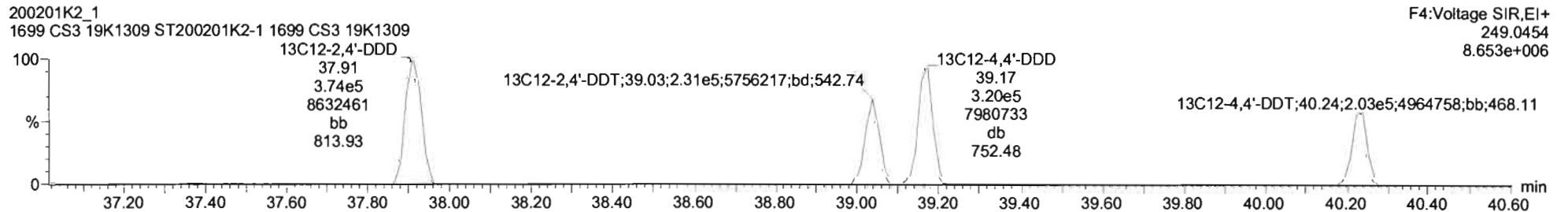
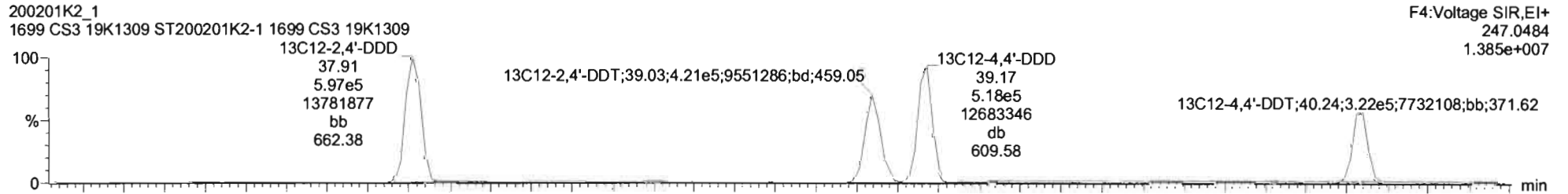
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Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

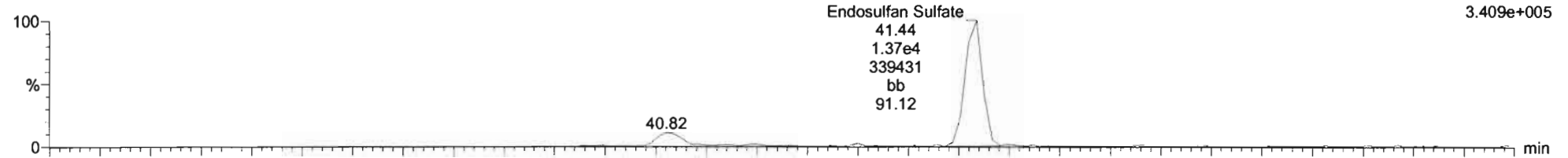
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Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Endosulfan Sulfate

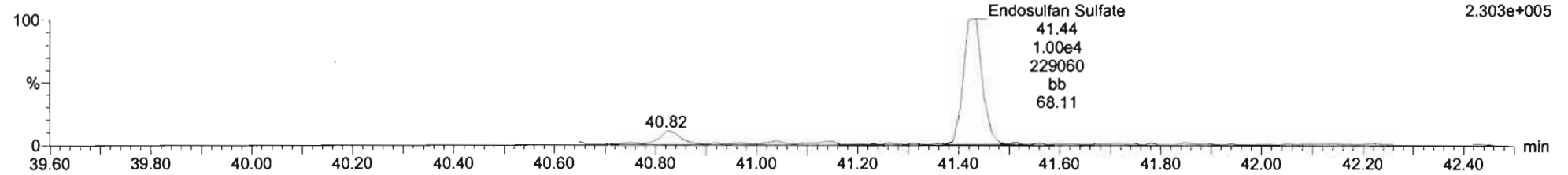
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
262.8569
3.409e+005



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

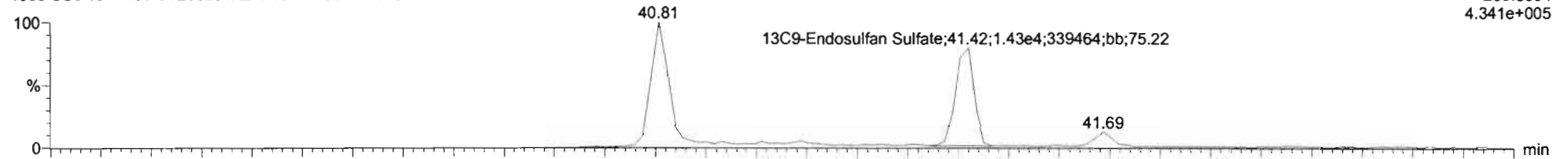
F5:Voltage SIR,EI+
264.8540
2.303e+005



13C9-Endosulfan Sulfate

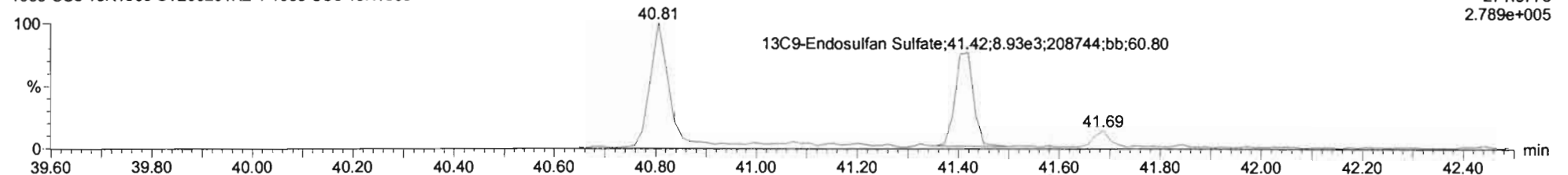
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

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

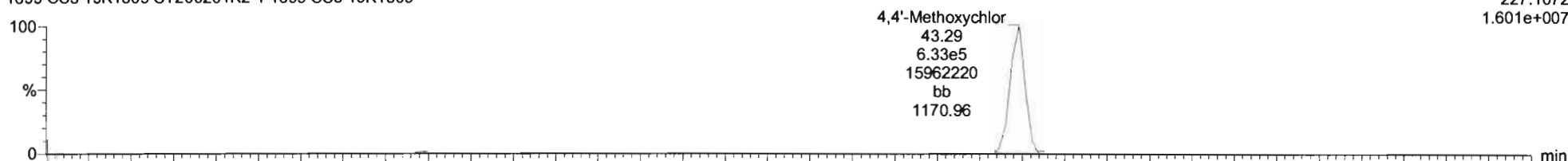
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Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

4,4'-Methoxychlor

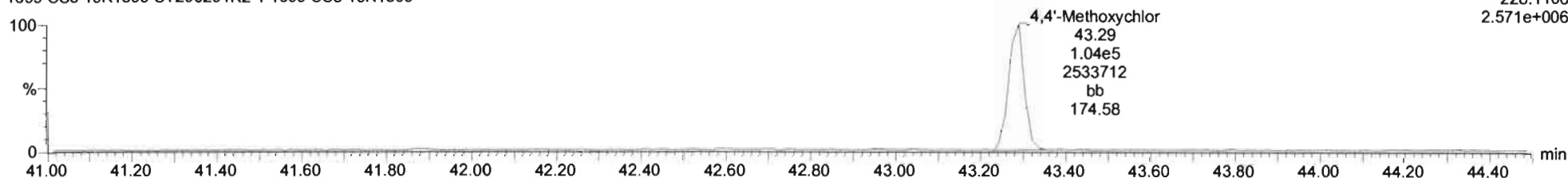
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
227.1072
1.601e+007



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

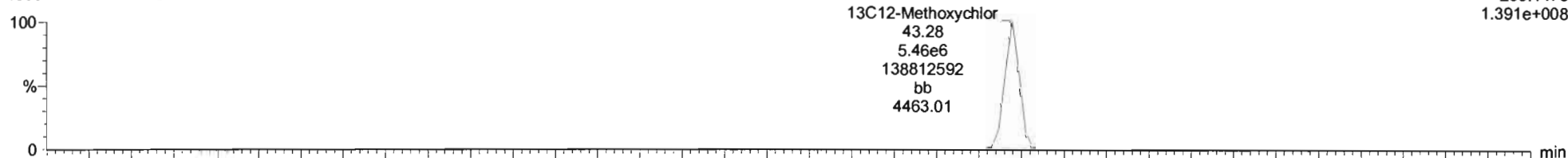
F5:Voltage SIR,EI+
228.1106
2.571e+006



13C12-Methoxychlor

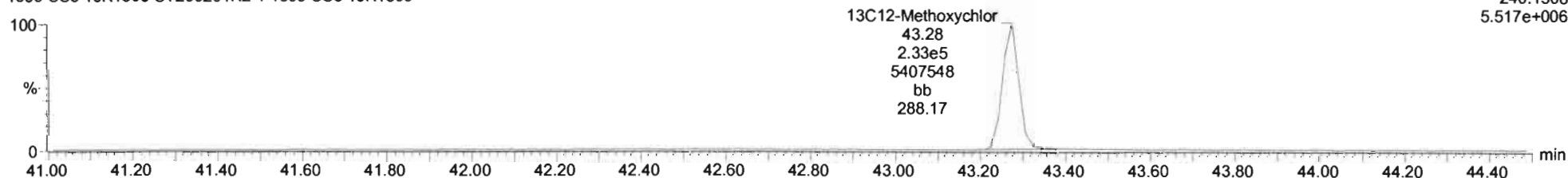
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

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

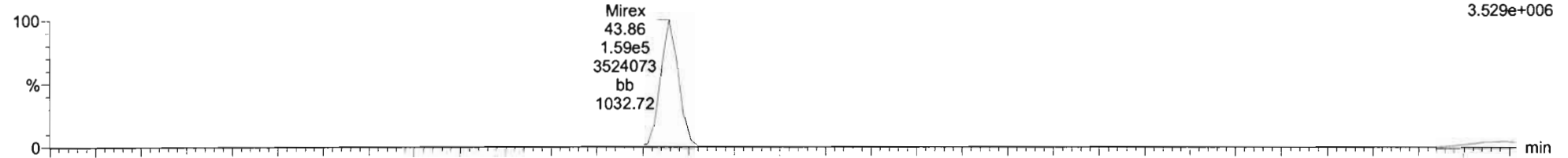
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Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Mirex

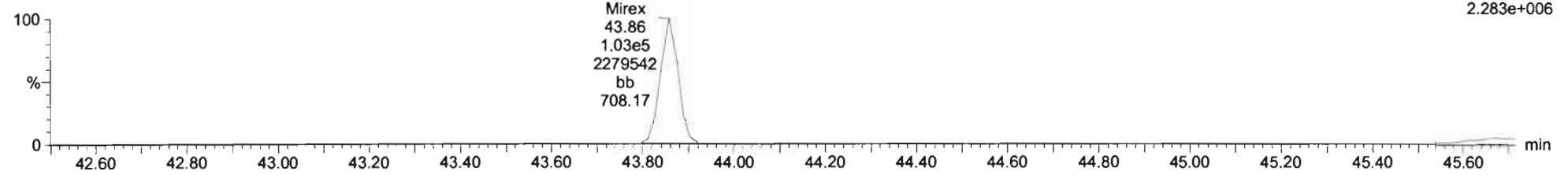
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

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

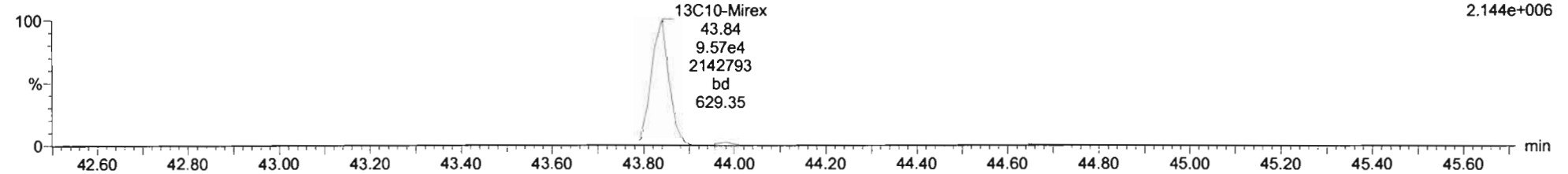
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

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

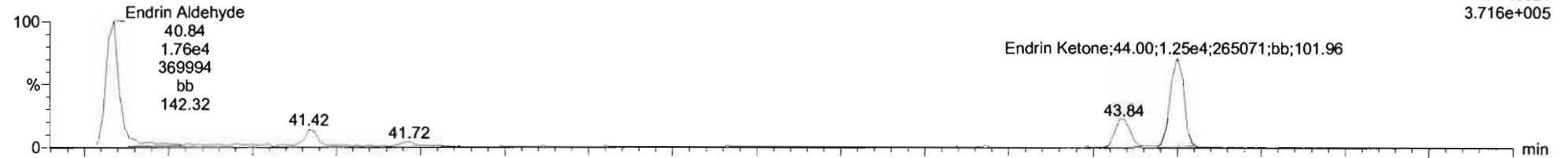
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EA-EK

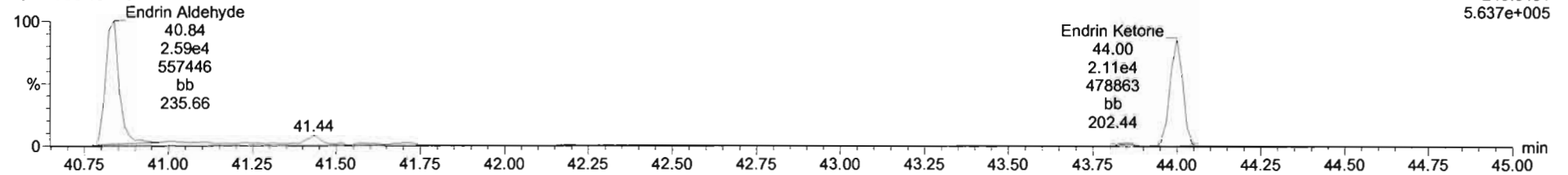
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
247.8521
3.716e+005



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

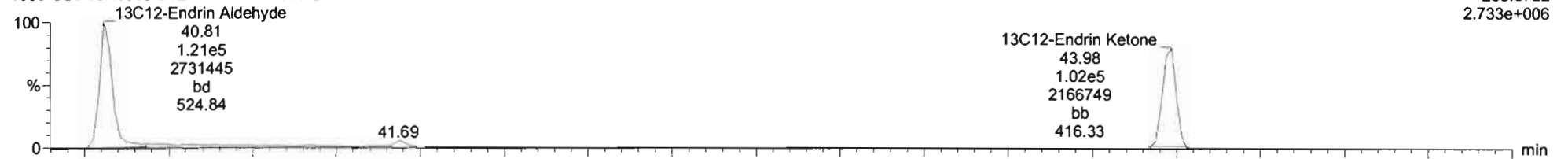
F5:Voltage SIR,EI+
249.8491
5.637e+005



EA-EK-isotopes

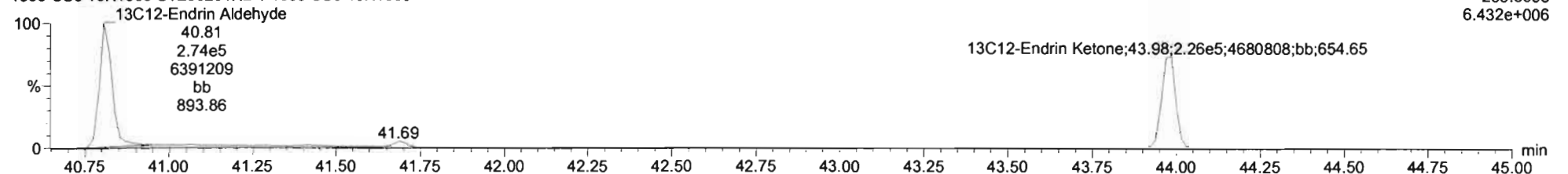
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
253.8722
2.733e+006

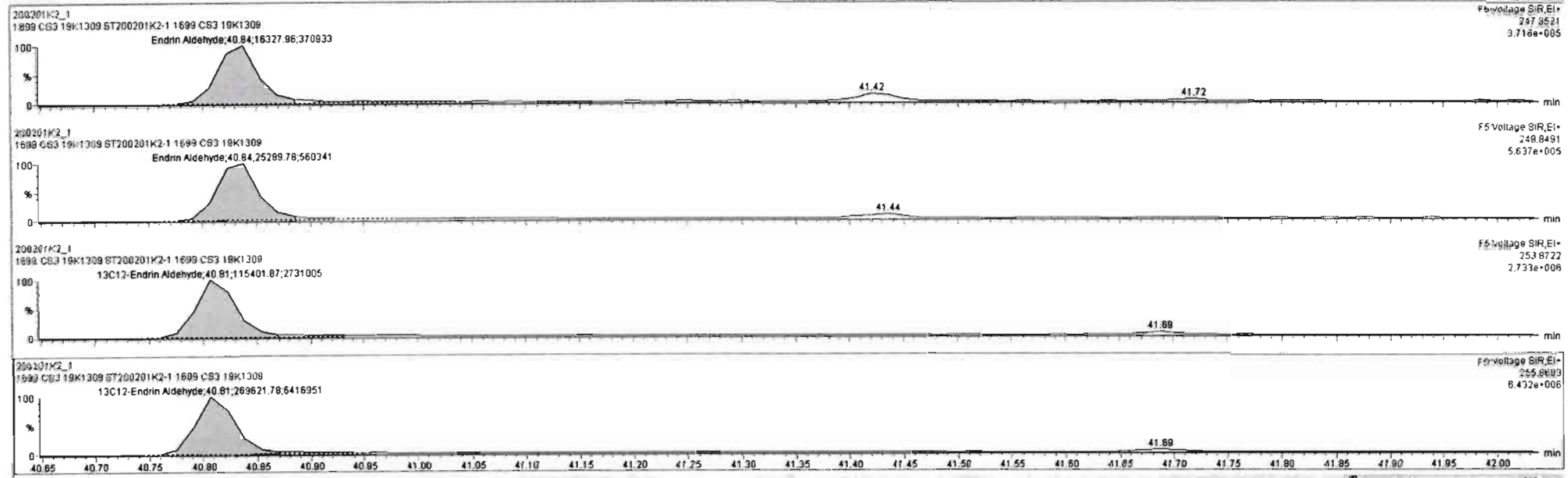


200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

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

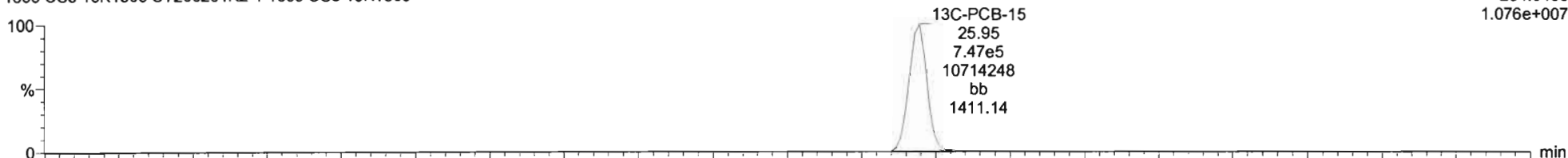
Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

13C-PCB-15

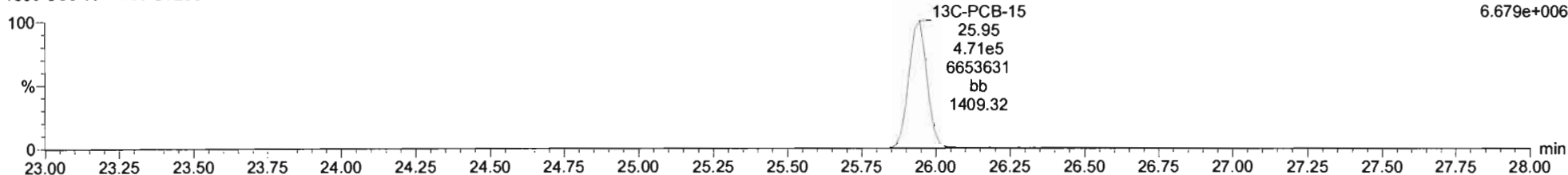
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F2:Voltage SIR,EI+
234.0406
1.076e+007



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

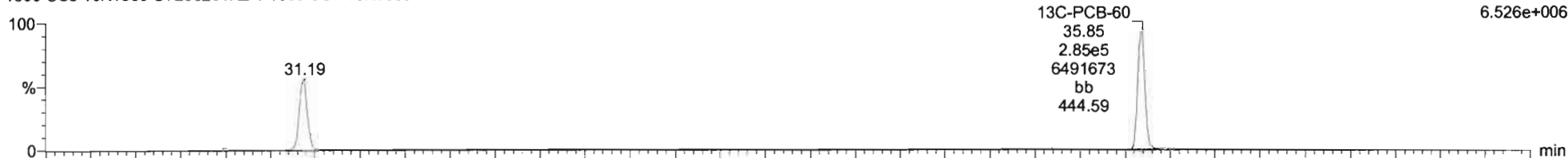
F2:Voltage SIR,EI+
236.0376
6.679e+006



13C-PCB-60

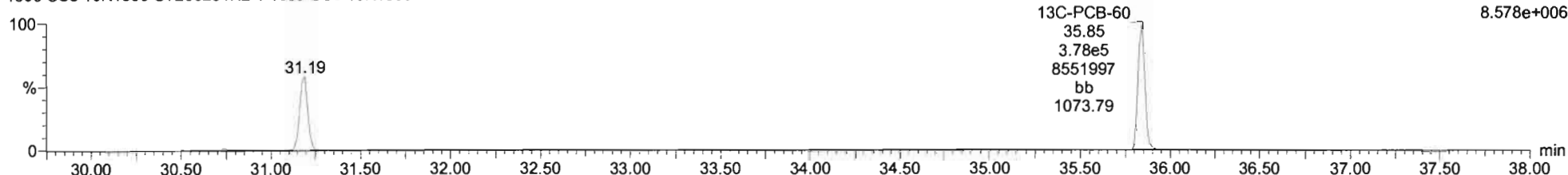
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

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

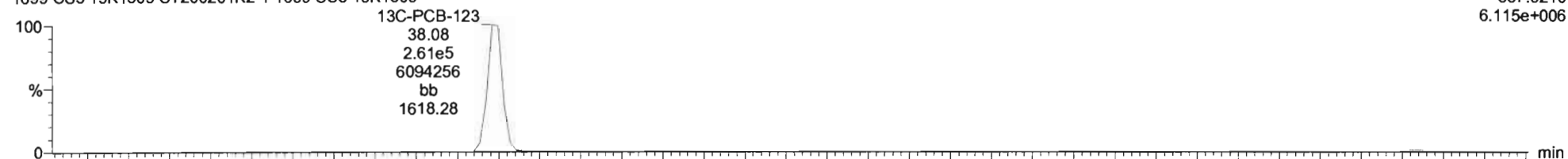
Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

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13C-PCB-123

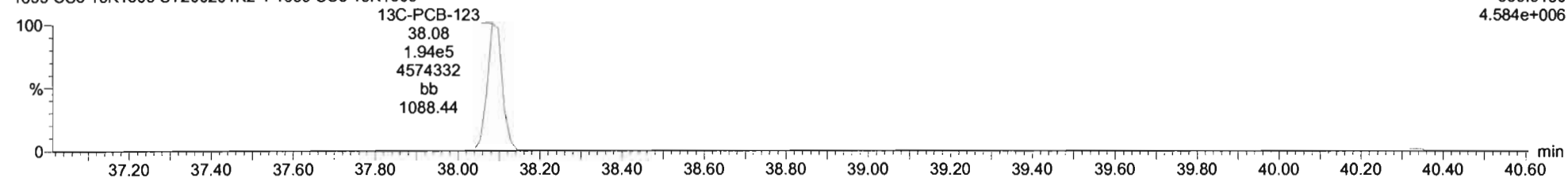
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F4:Voltage SIR,EI+
337.9210
6.115e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

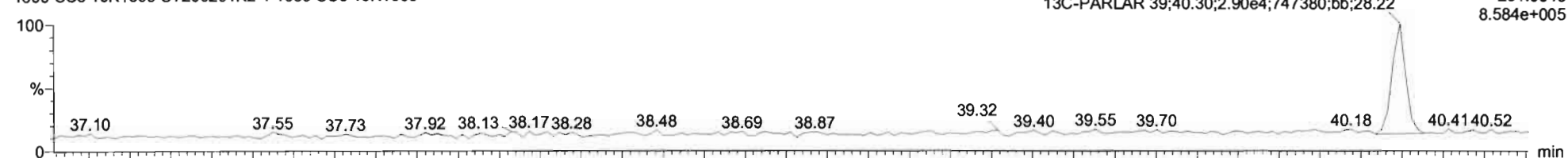
F4:Voltage SIR,EI+
339.9180
4.584e+006



13C-PARLAR 39

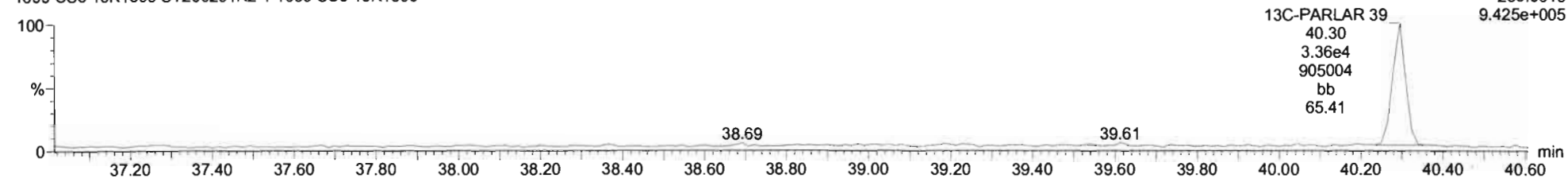
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F4:Voltage SIR,EI+
251.9648
8.584e+005



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F4:Voltage SIR,EI+
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9.425e+005



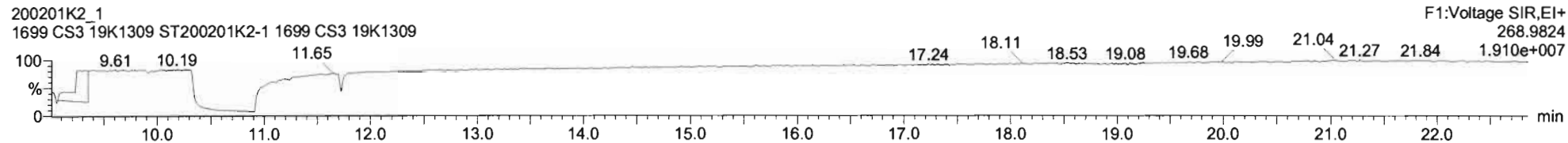
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Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

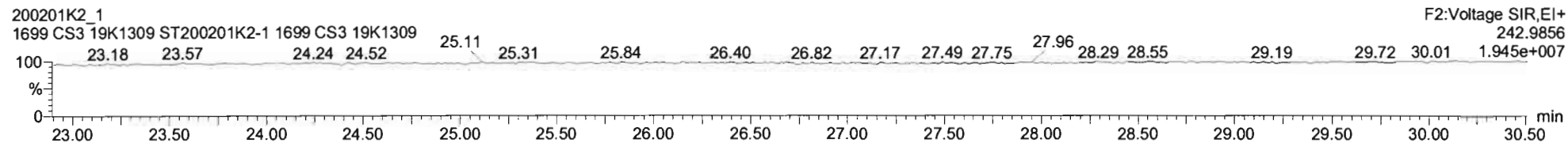
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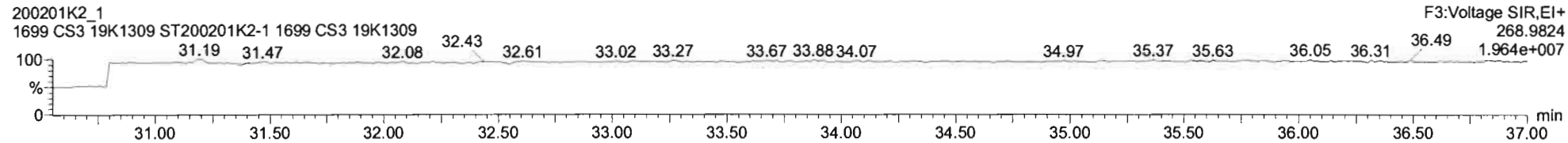
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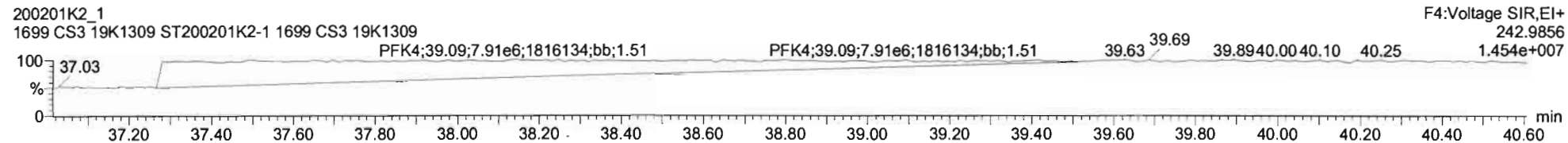
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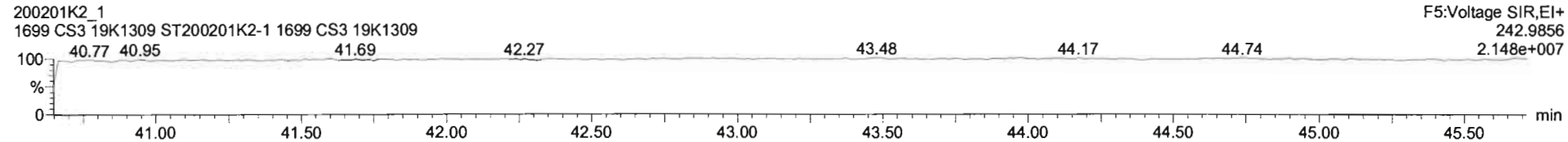
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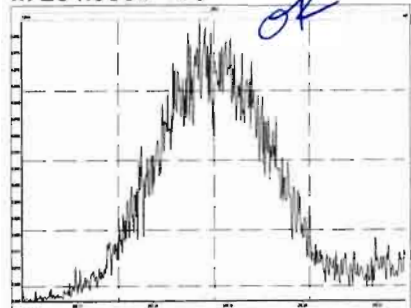
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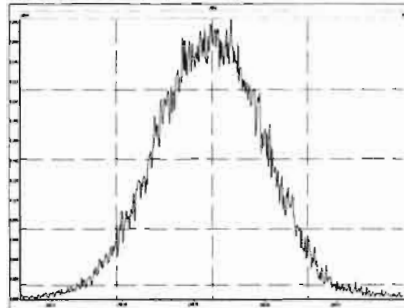
PFK5



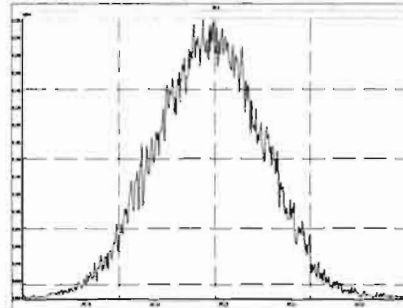
M 254.9856 R 0



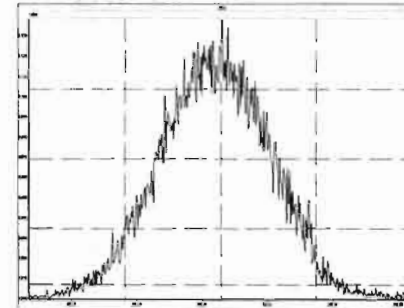
M 268.9824 R 7776



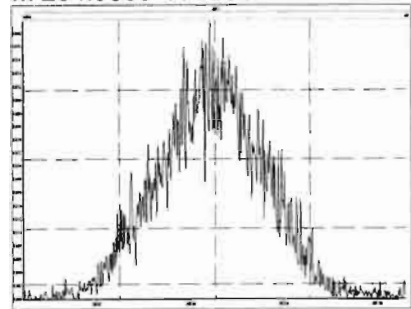
M 280.9824 R 7849



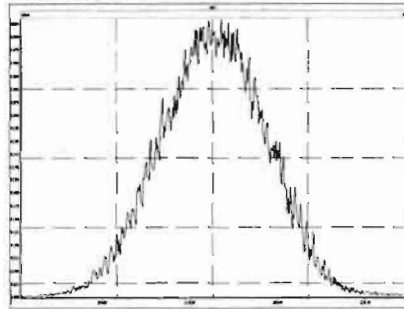
M 292.9824 R 7731



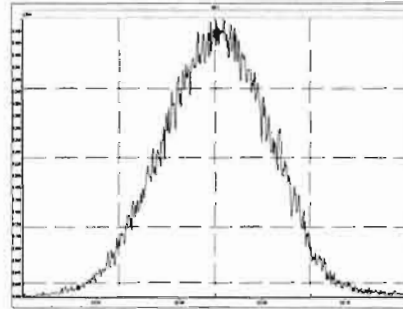
M 204.9888 R 8681



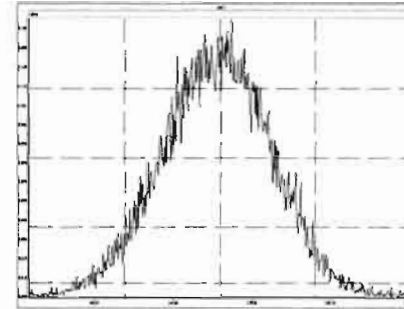
M 218.9856 R 7911



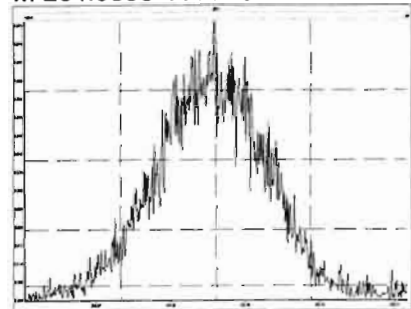
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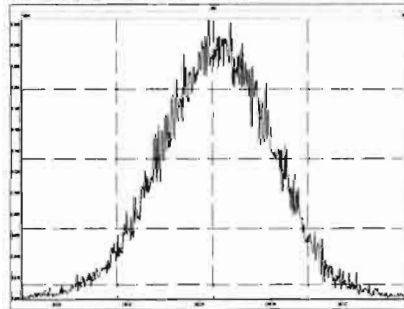
M 242.9856 R 7962



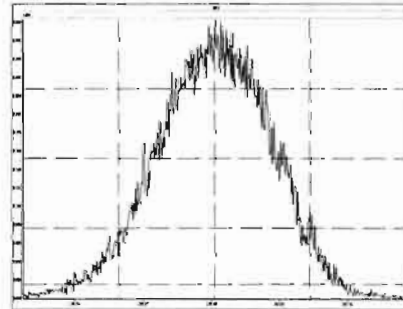
M 254.9856 R 7740



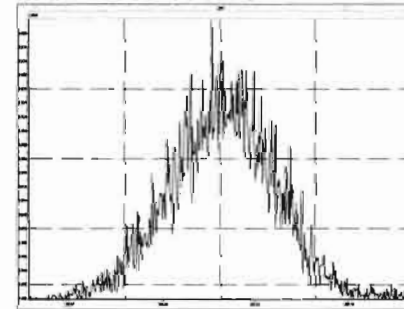
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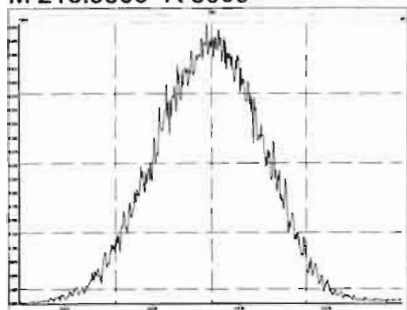
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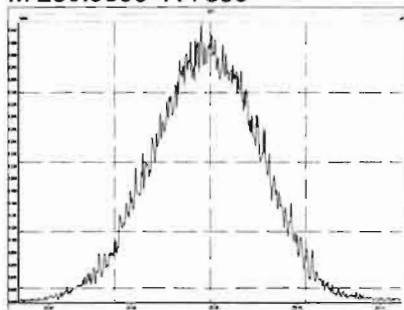
M 204.9888 R 8778



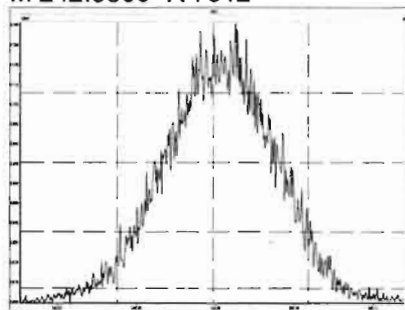
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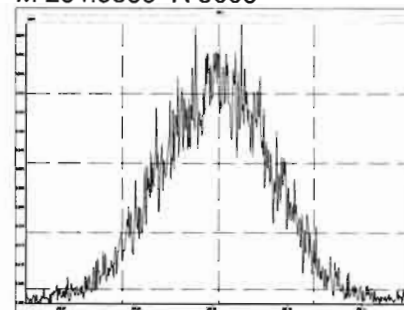
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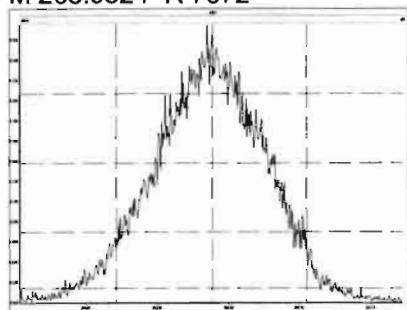
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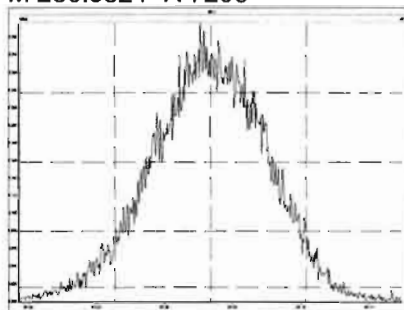
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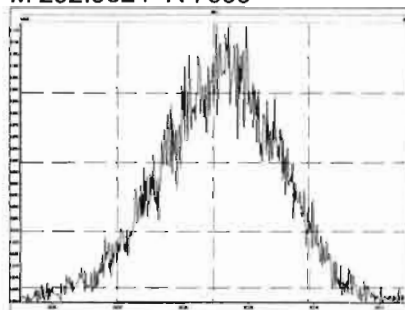
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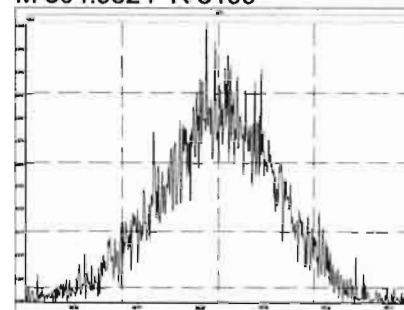
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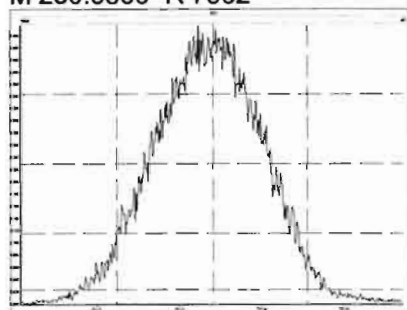
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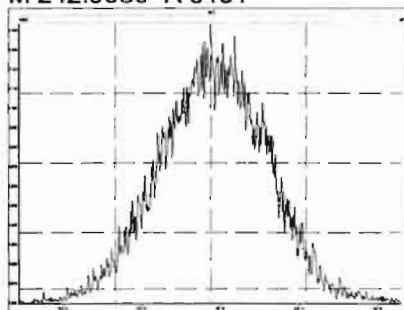
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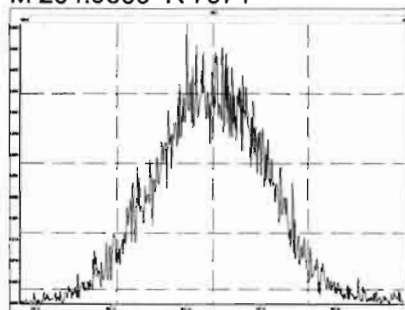
M 230.9856 R 7962



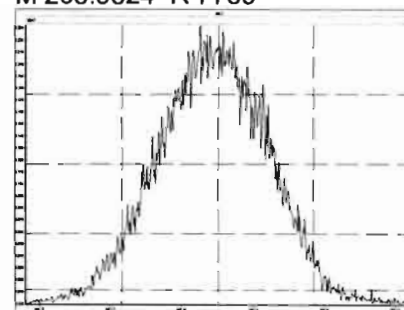
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M 254.9856 R 7974

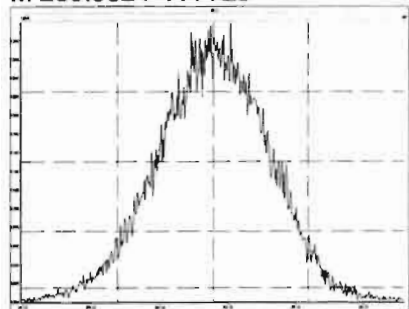


M 268.9824 R 7789

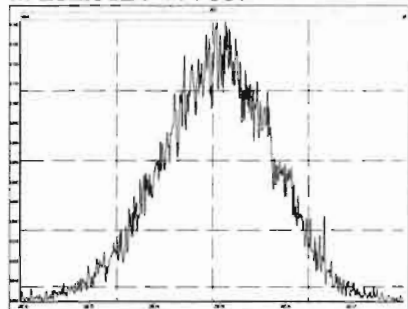


Printed: Sunday, February 02, 2020 00:40:51 Pacific Standard Time

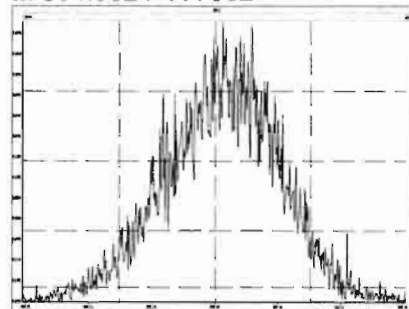
M 280.9824 R 7728



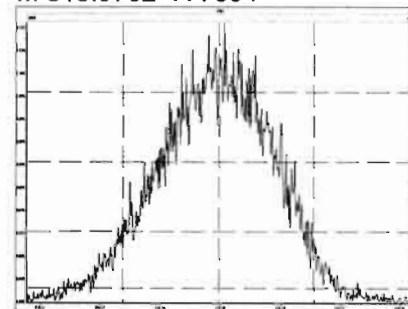
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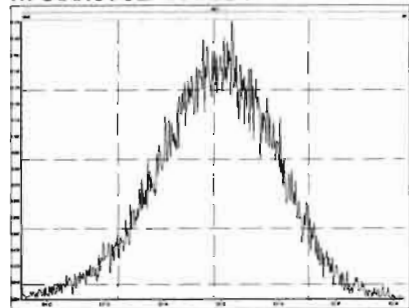
M 304.9824 R 7932



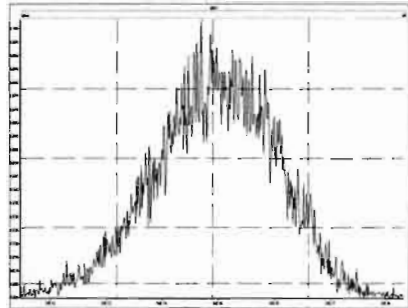
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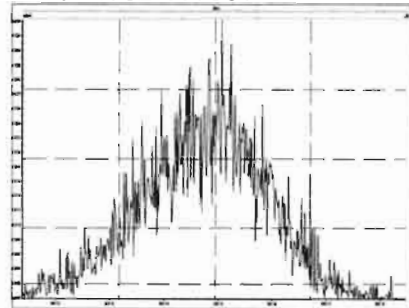
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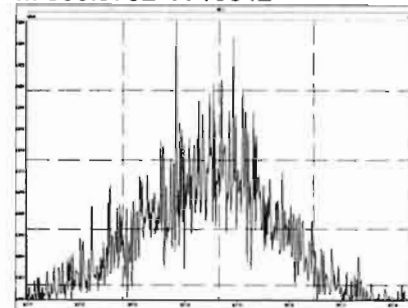
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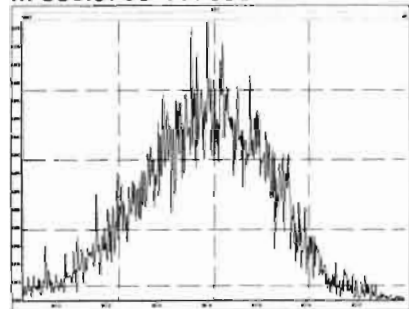
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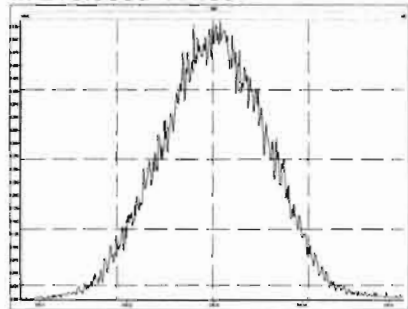
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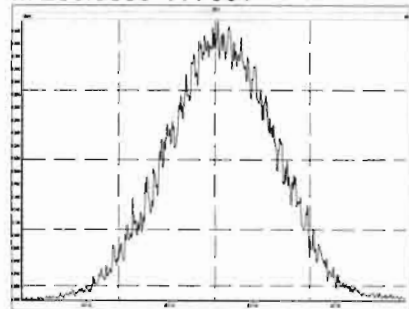
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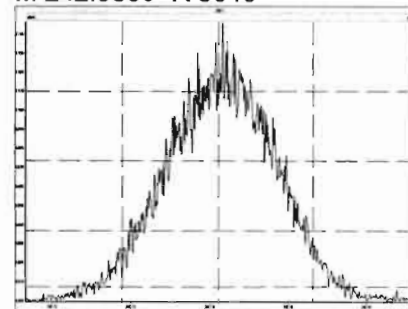
M 218.9856 R 8001



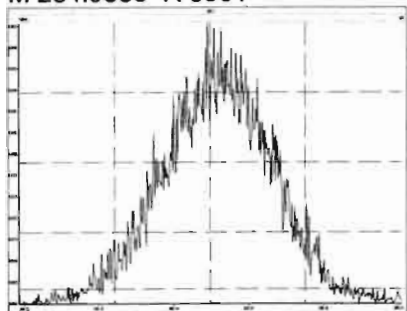
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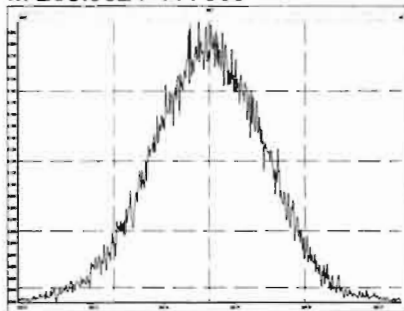
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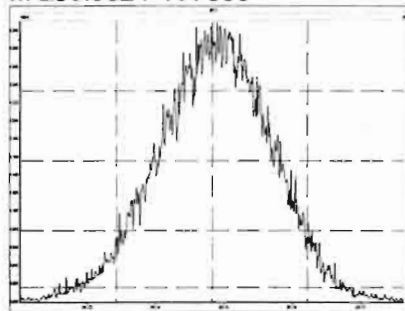
M 254.9856 R 8361



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

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
	RRT Limits						
Name	Lower Upper	RRT#1	RRT#2	RRT#3	RRT#4	RRT#5	RRT#6
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

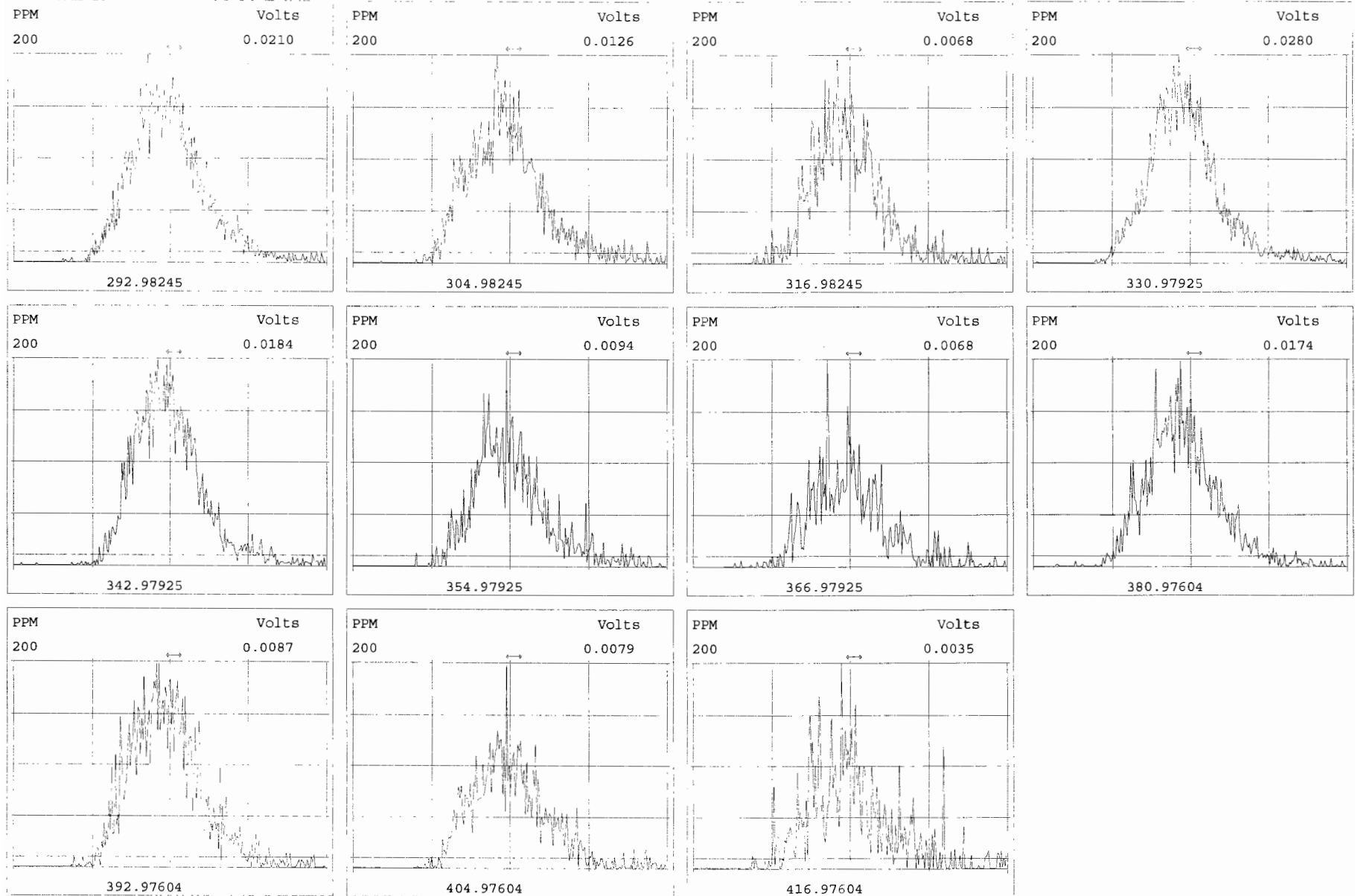
% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

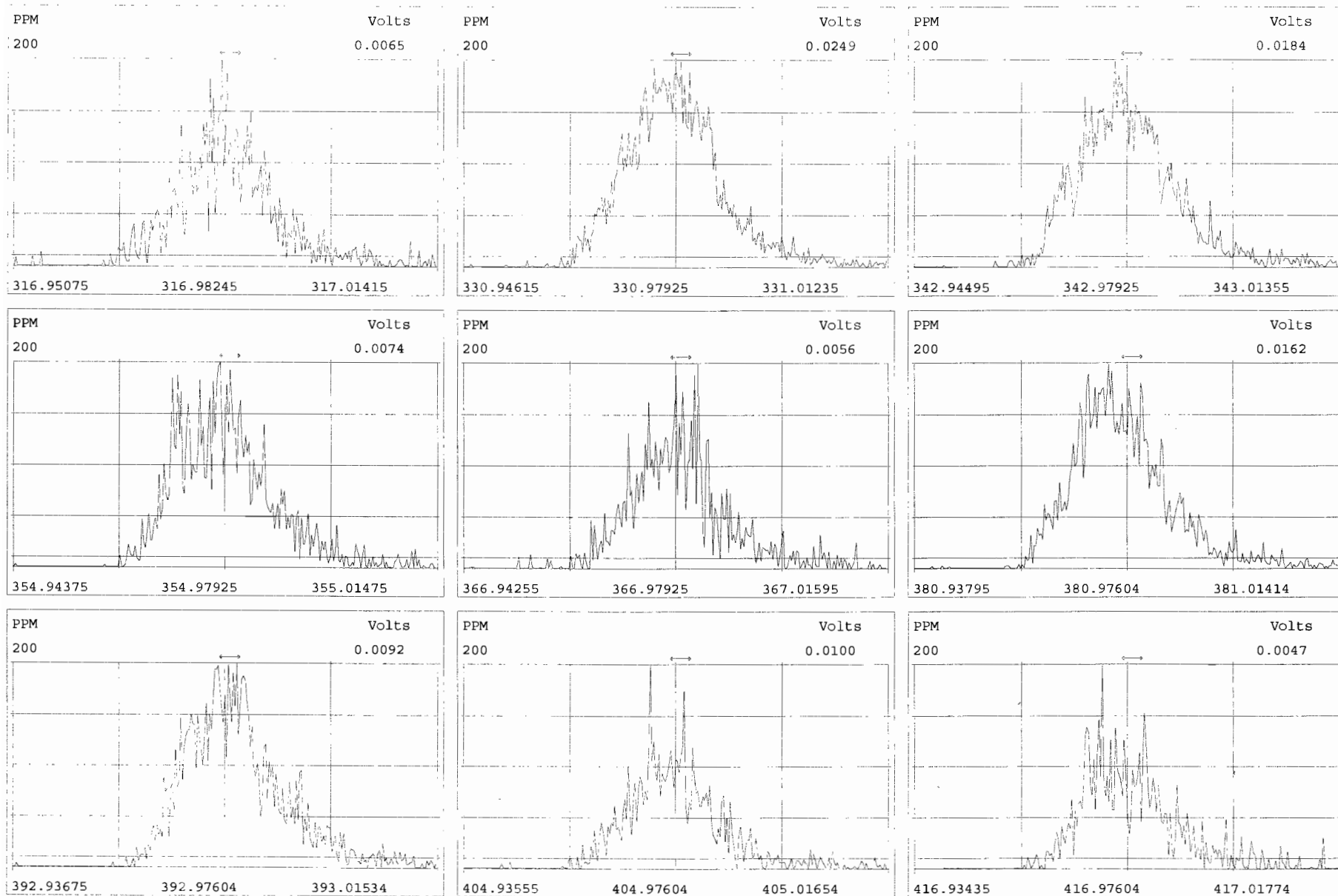
Analyst: DB

Date: 10/10/19



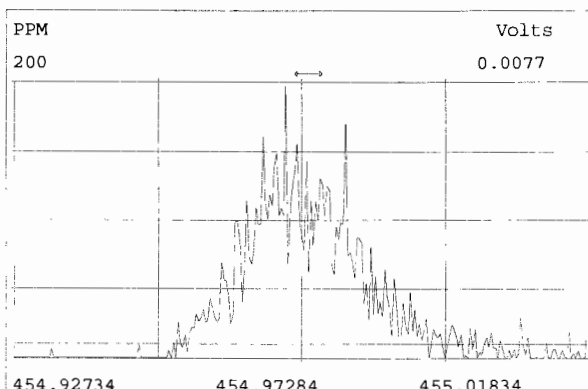
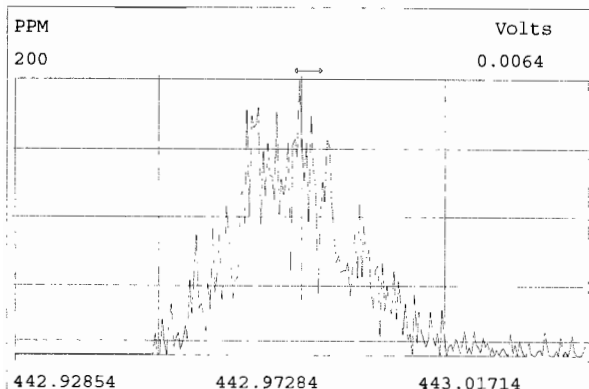
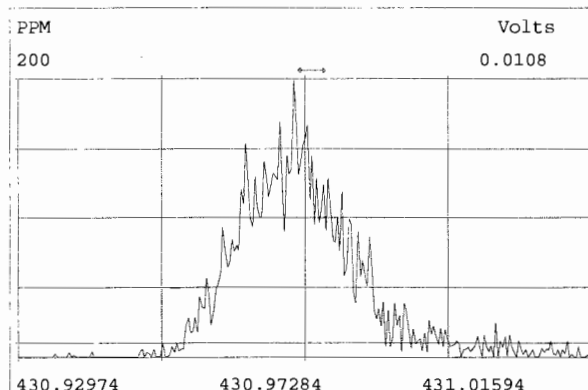
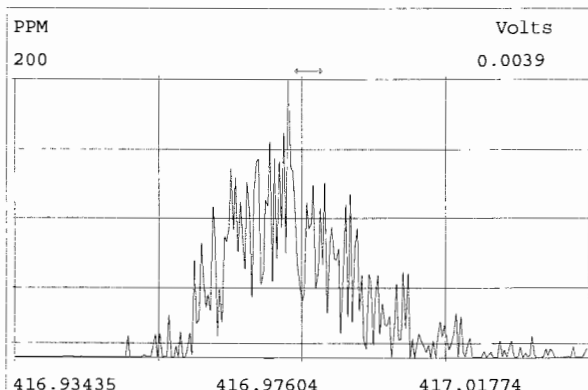
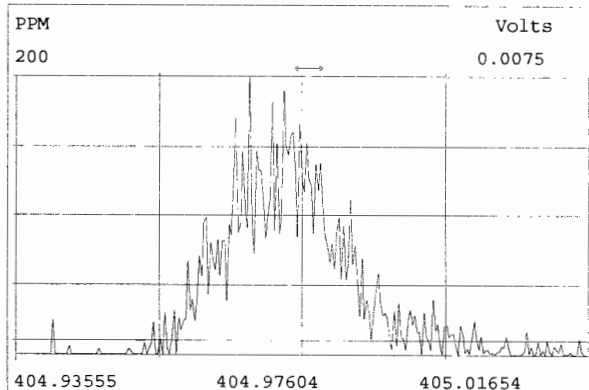
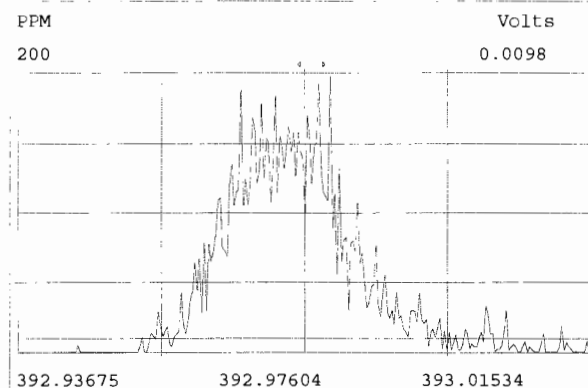
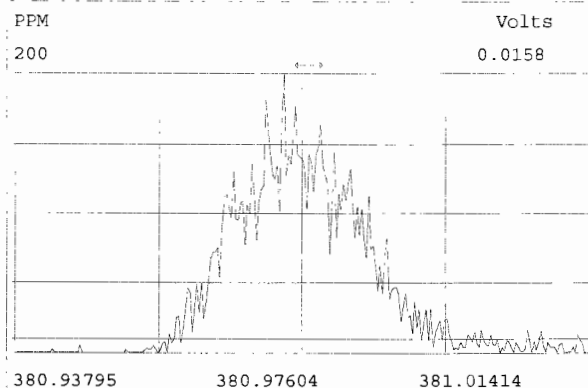
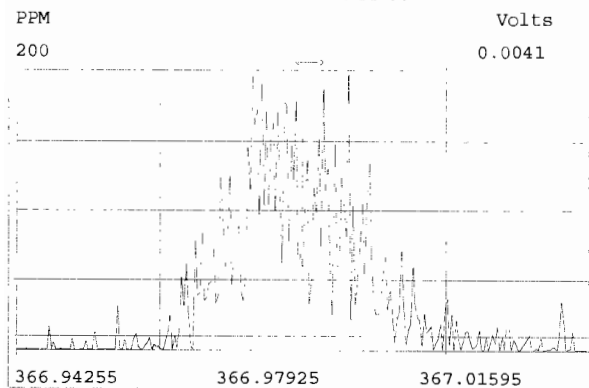
Peak Locate Examination: 9-OCT-2019:16:10 File:191009D1

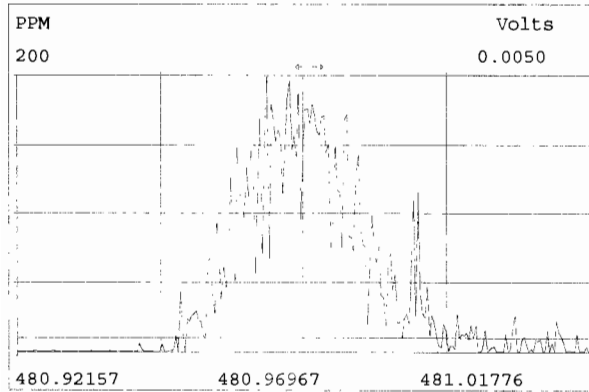
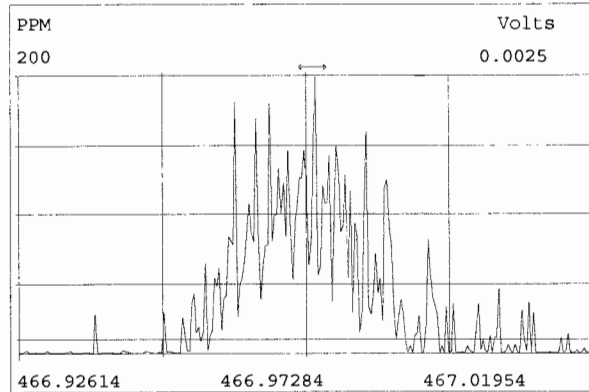
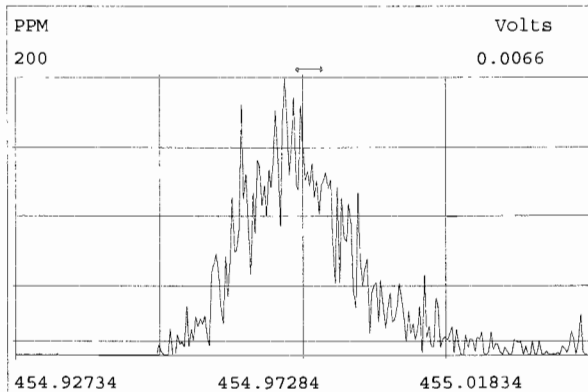
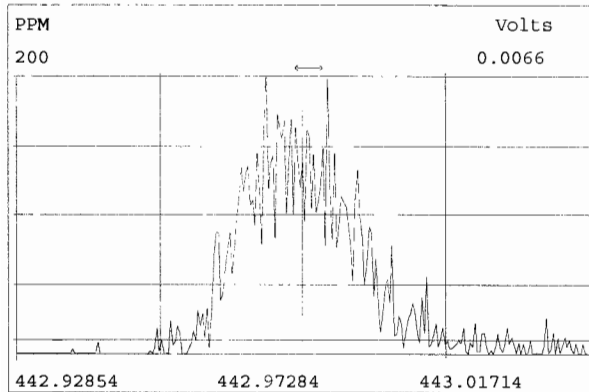
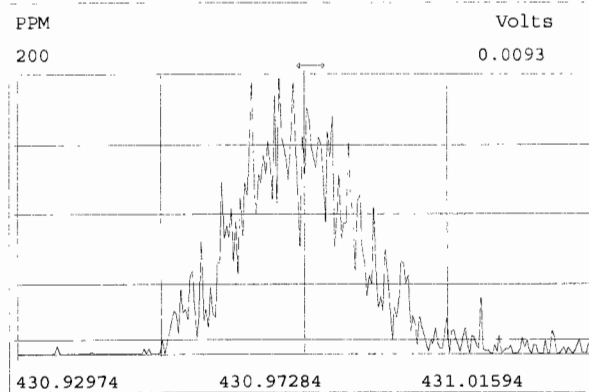
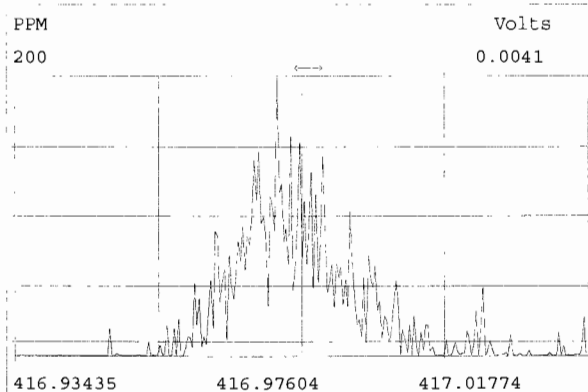
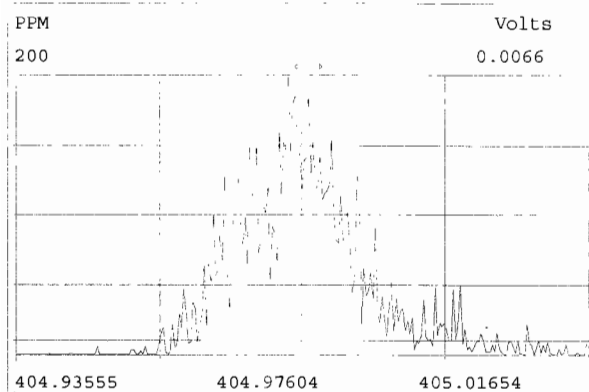
Experiment:OCDD_DB5 Function:2 Reference:PFK

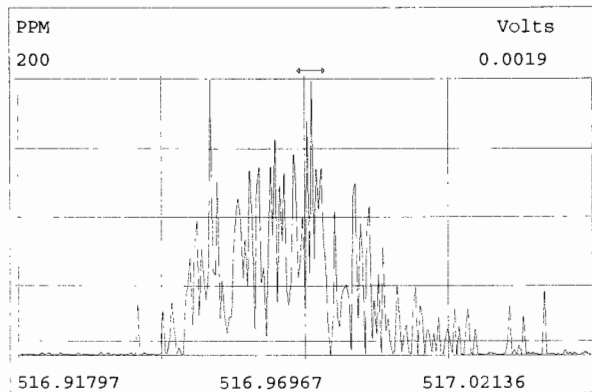
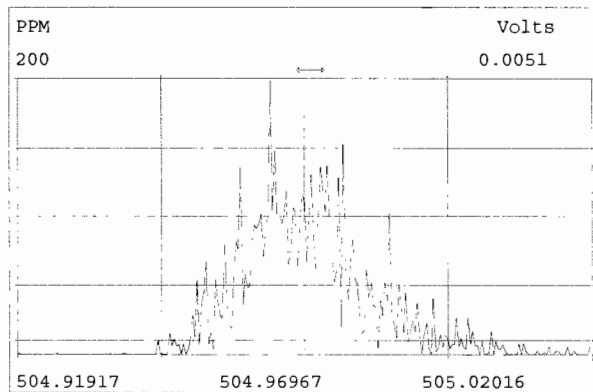
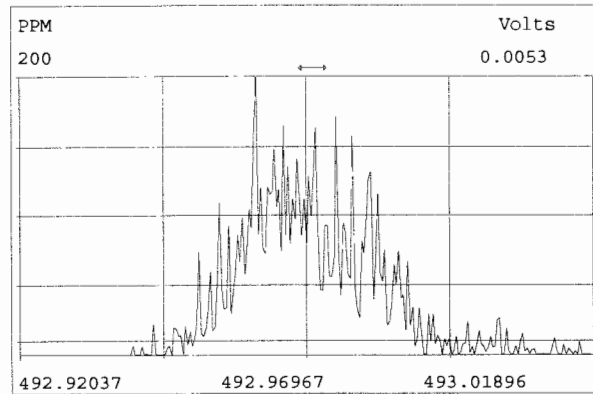
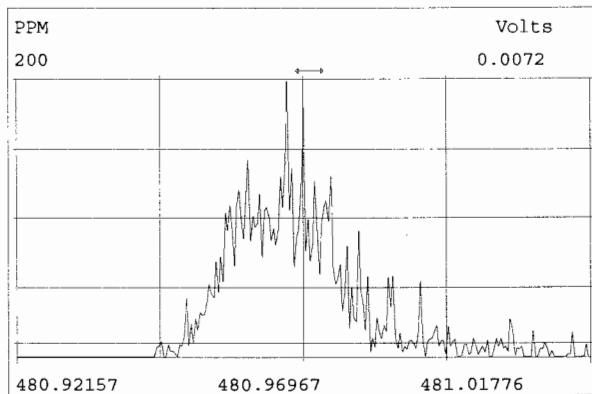
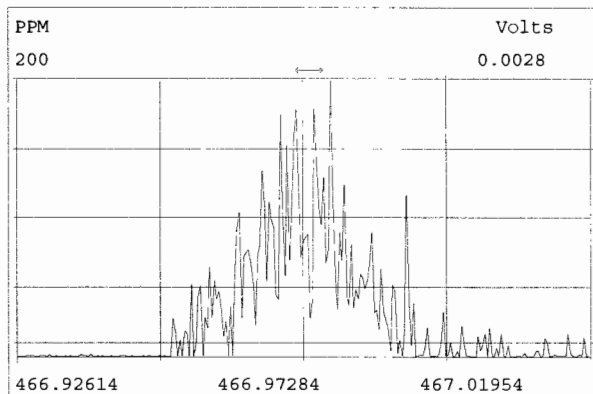
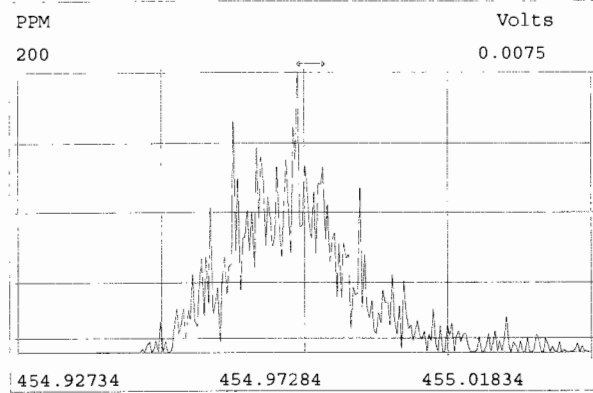
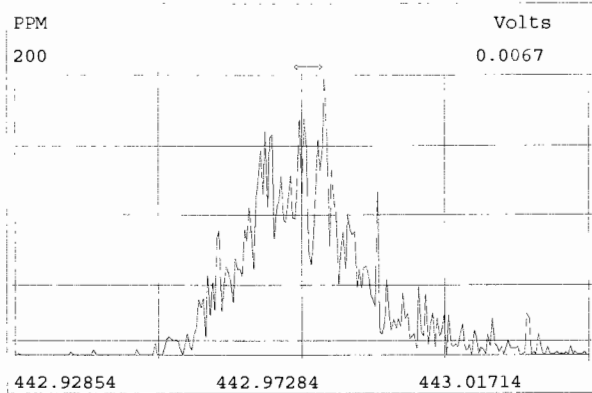
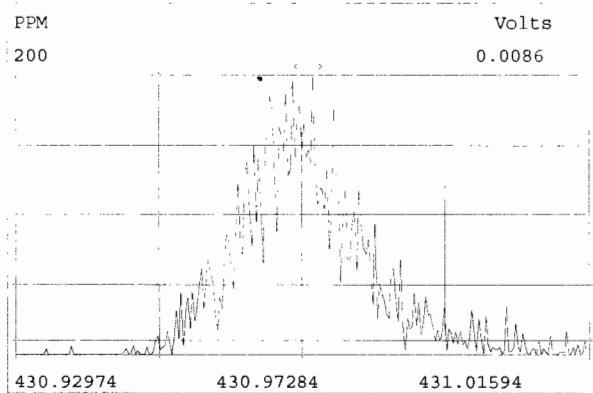


Peak Locate Examination: 9-OCT-2019:16:11 File:191009D1

Experiment:OCDD_DB5 Function:3 Reference:PFK



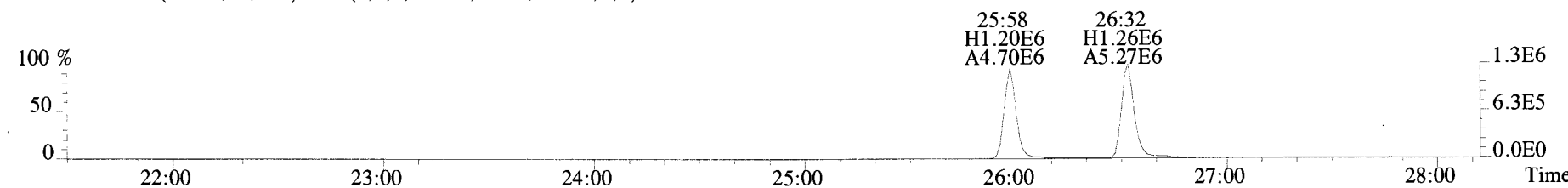
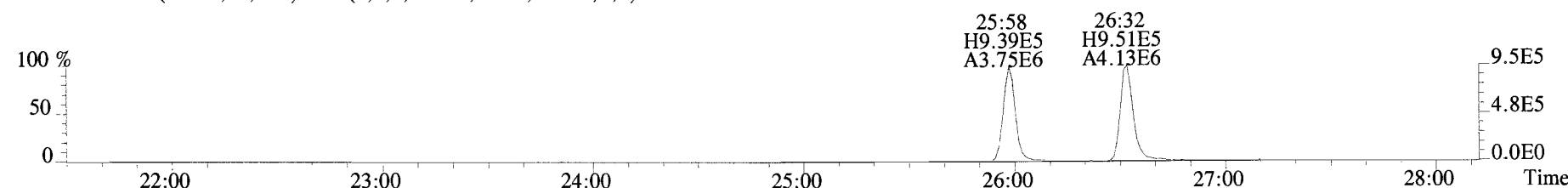
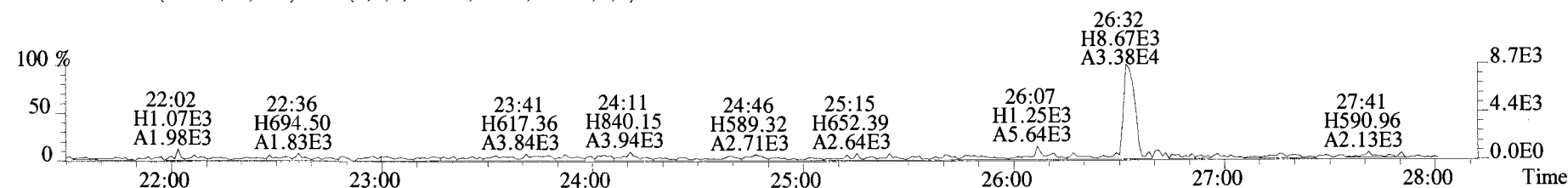
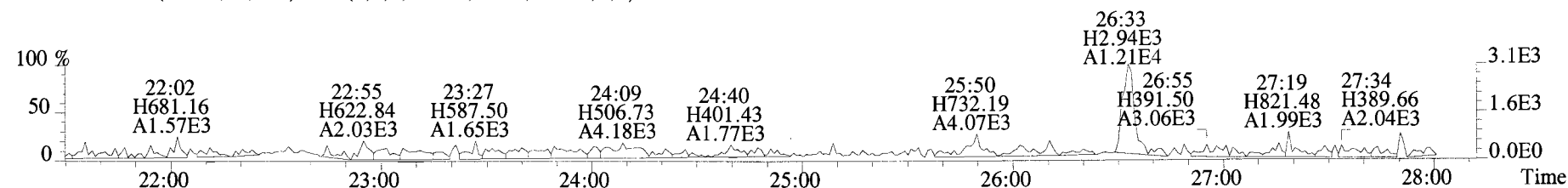
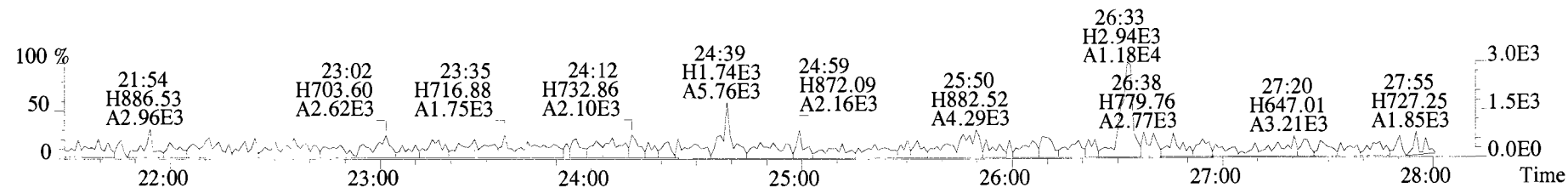




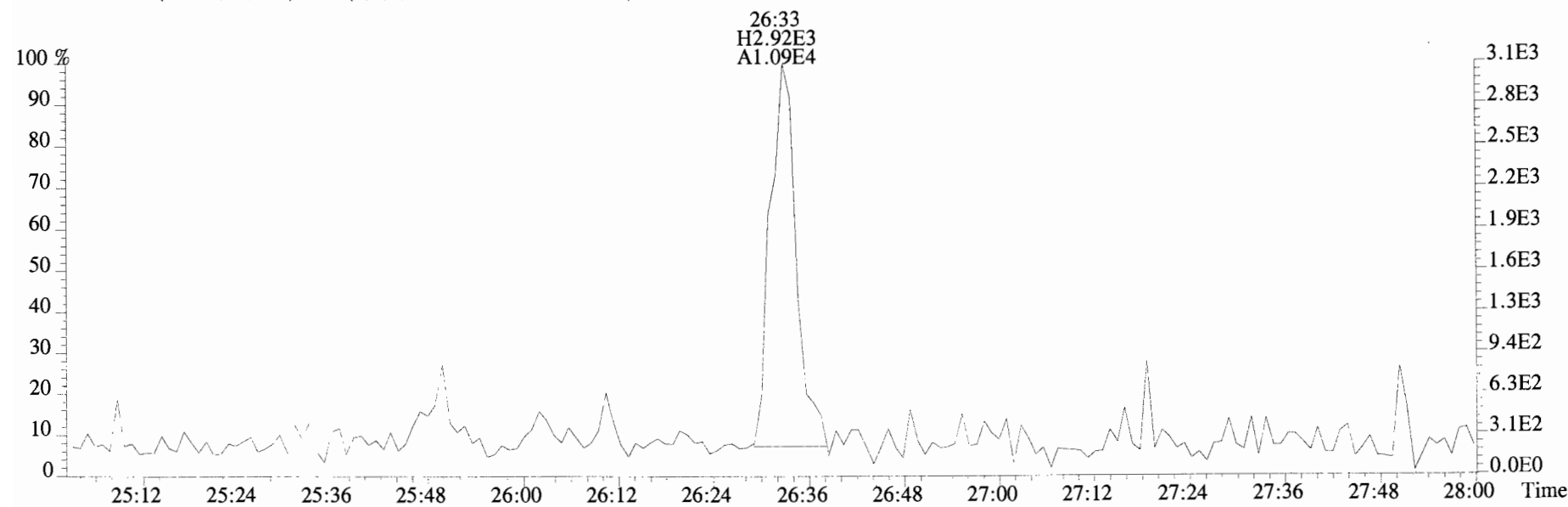
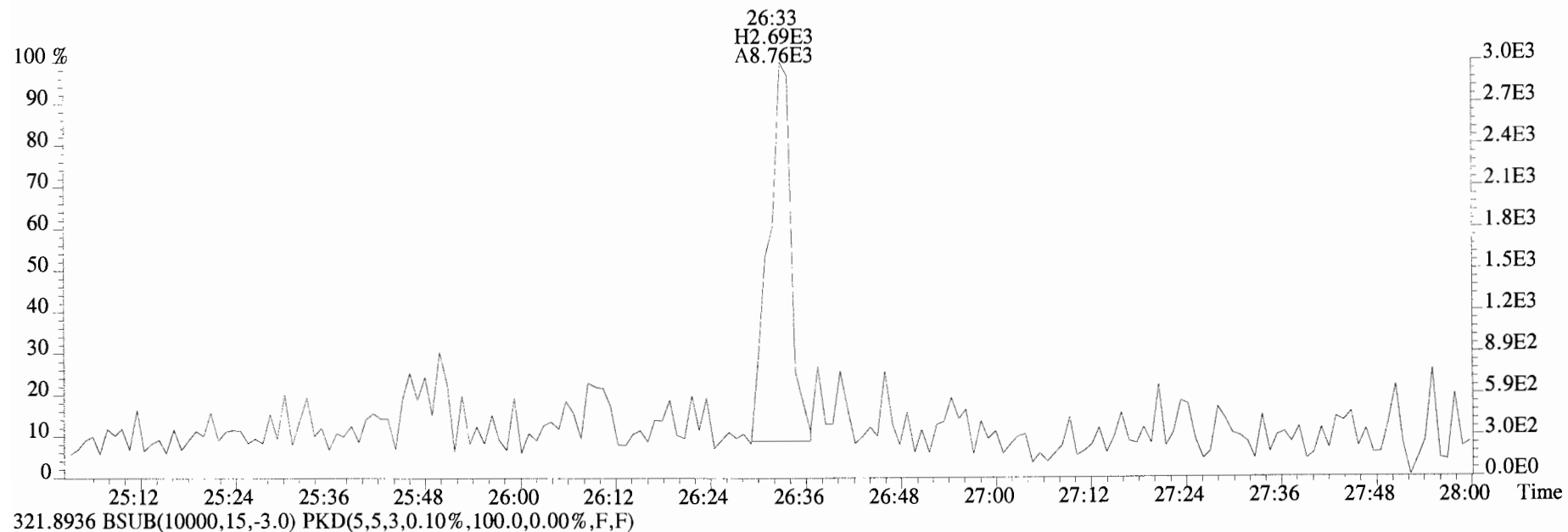
Vista Analytical Laboratory - Injection Log Run file: 191009D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

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

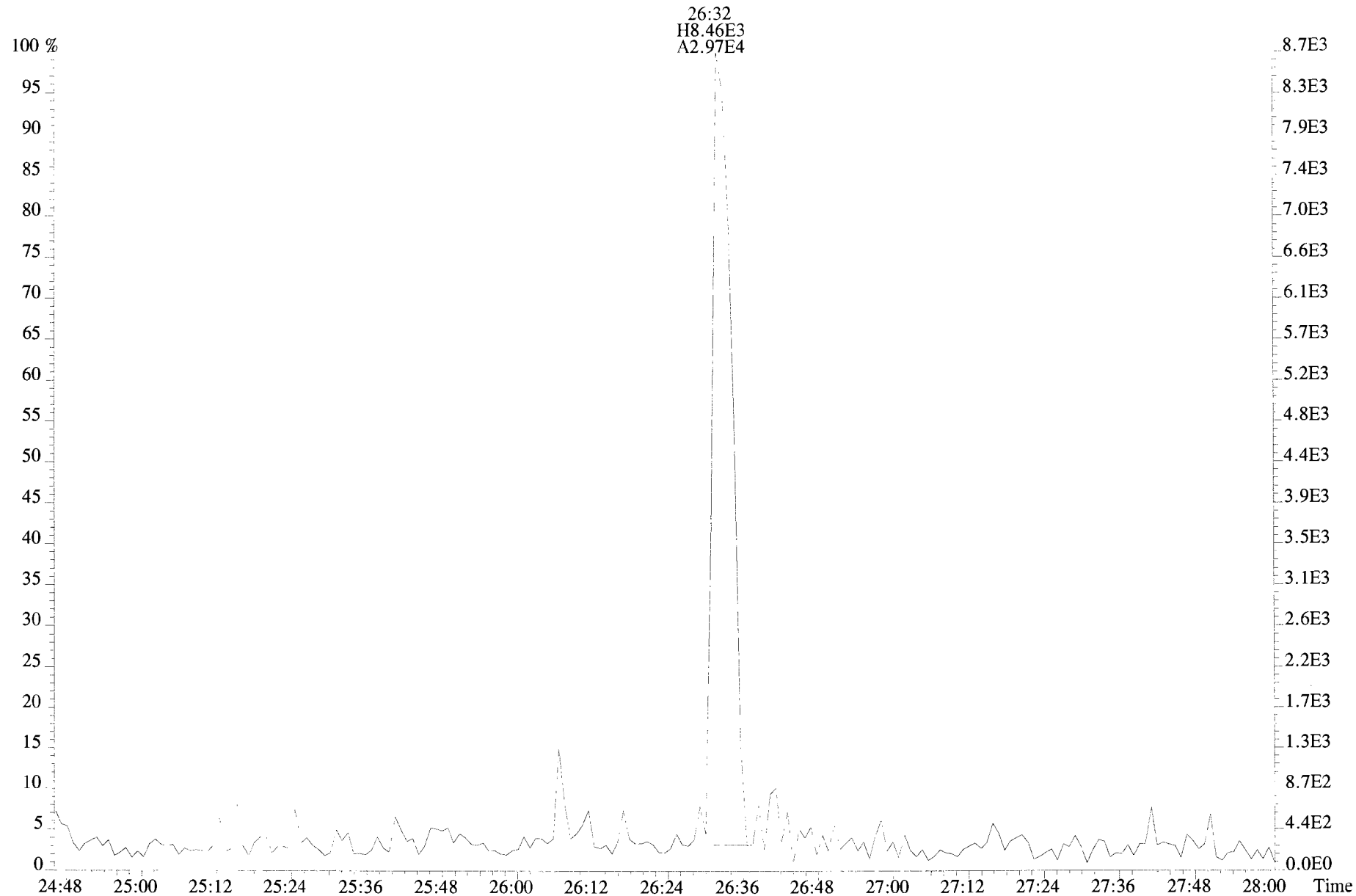
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



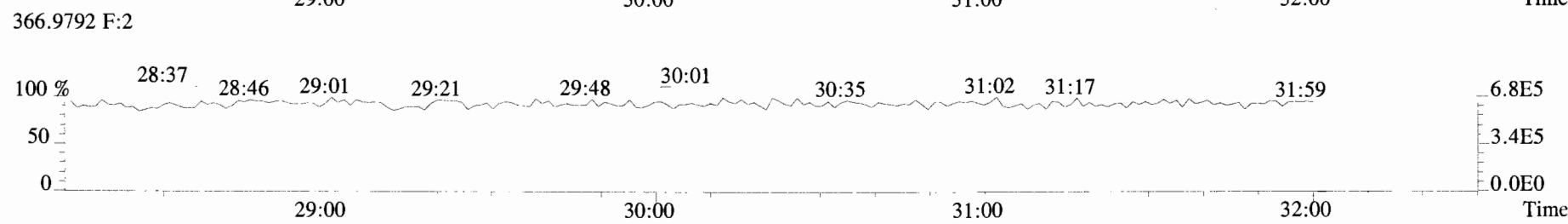
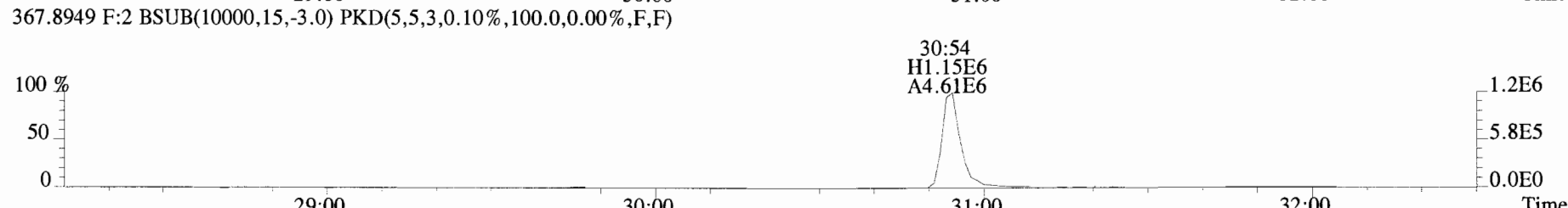
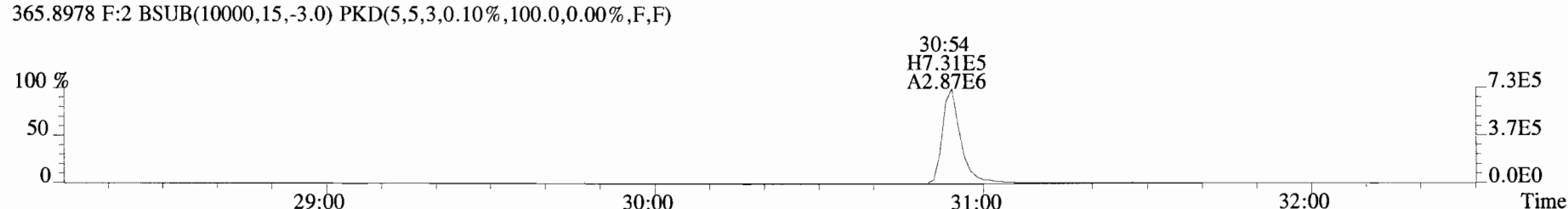
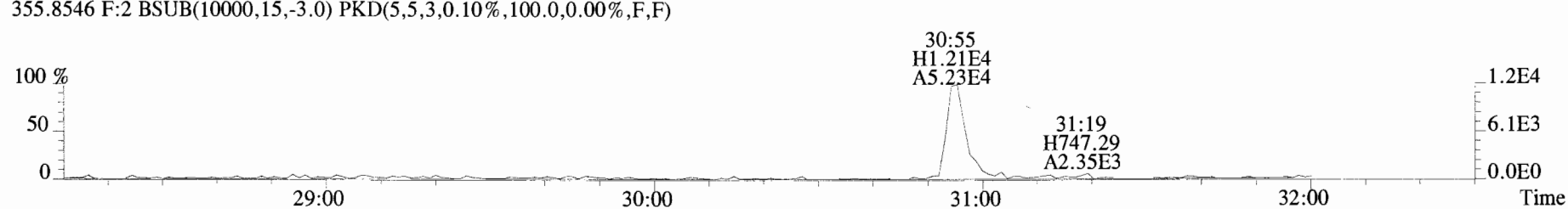
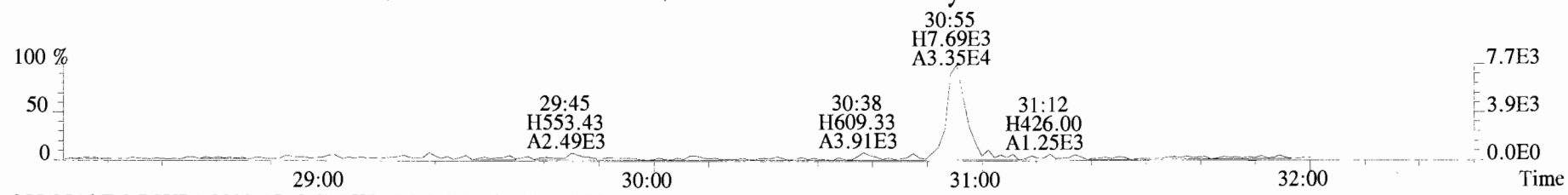
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



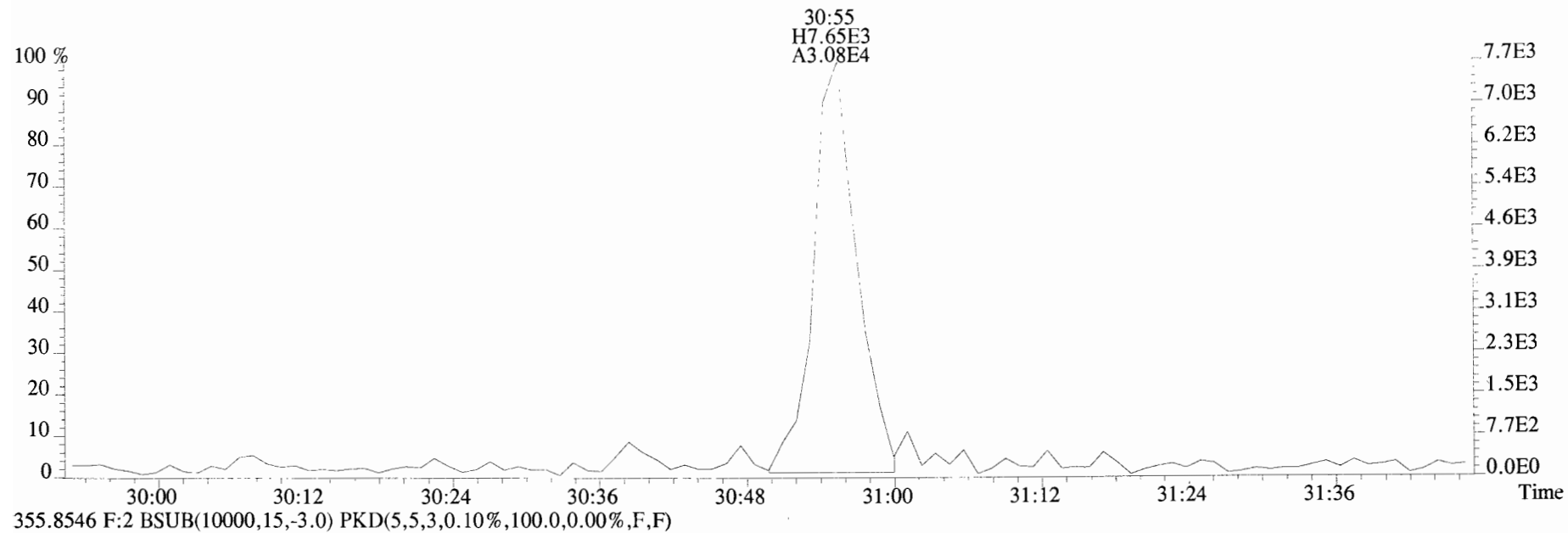
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
327.8847 BSUB(10000,15,-3.0)



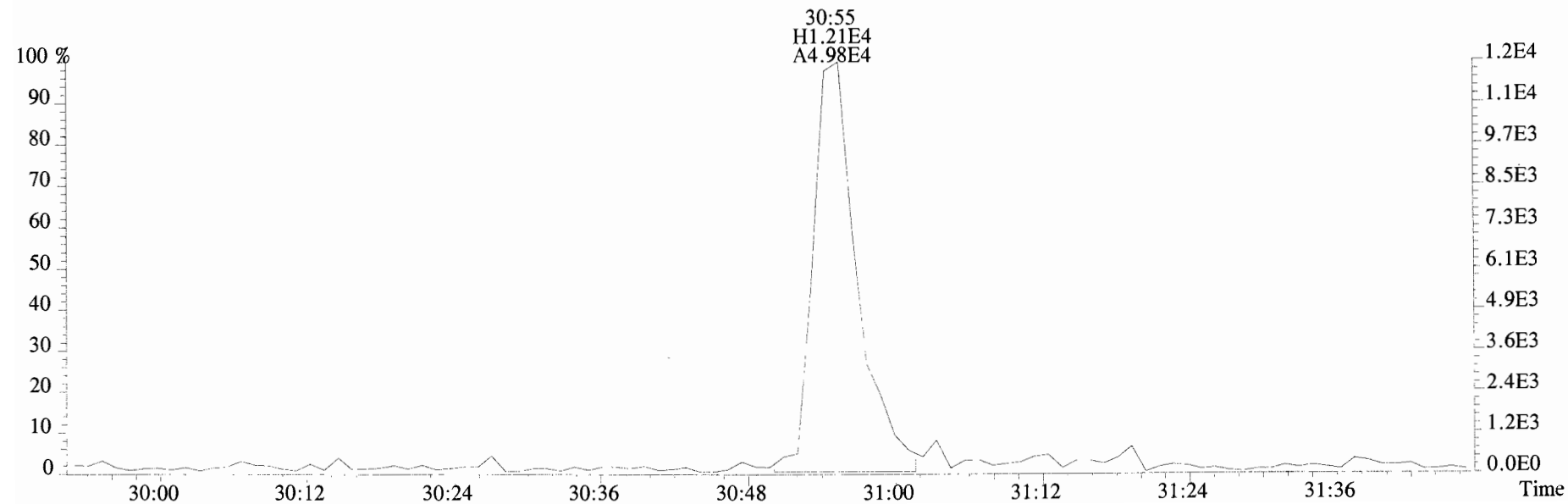
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



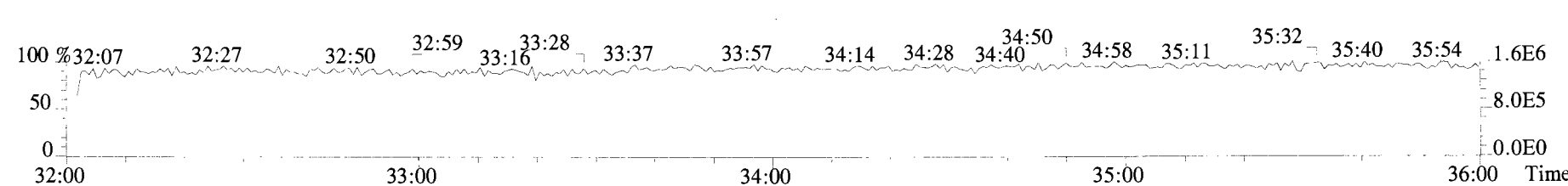
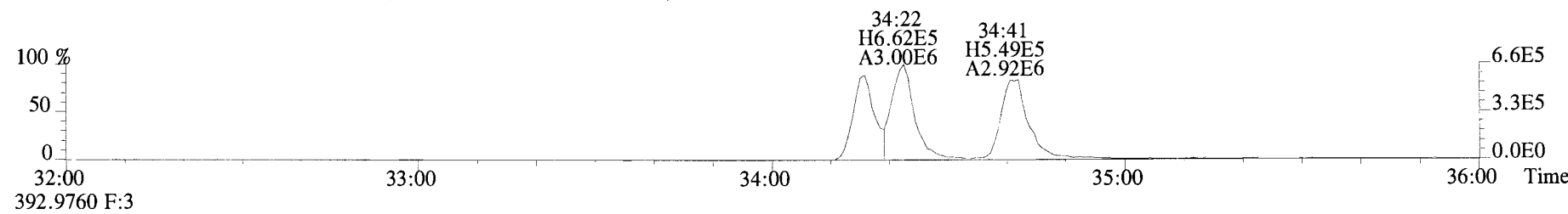
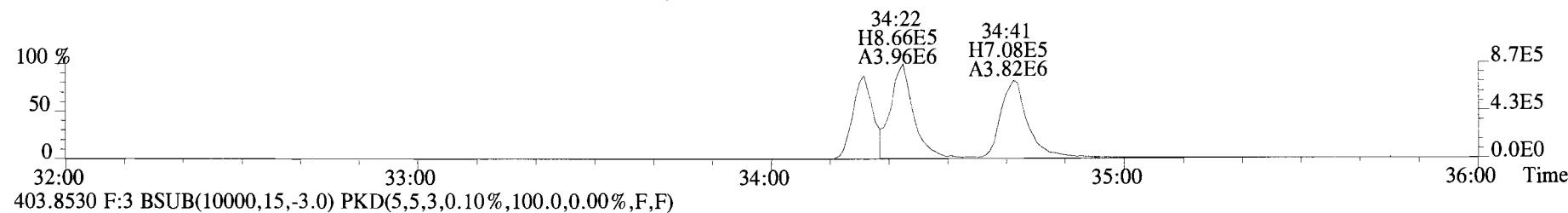
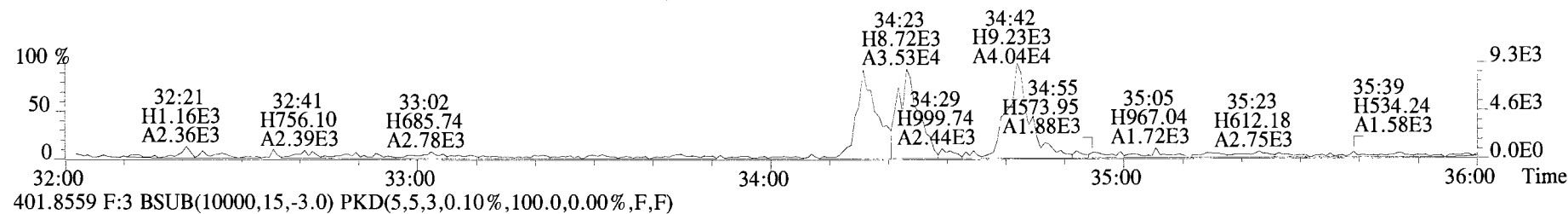
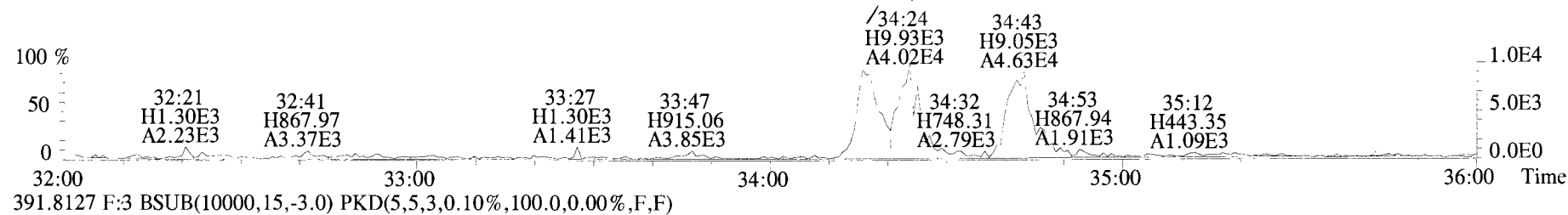
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



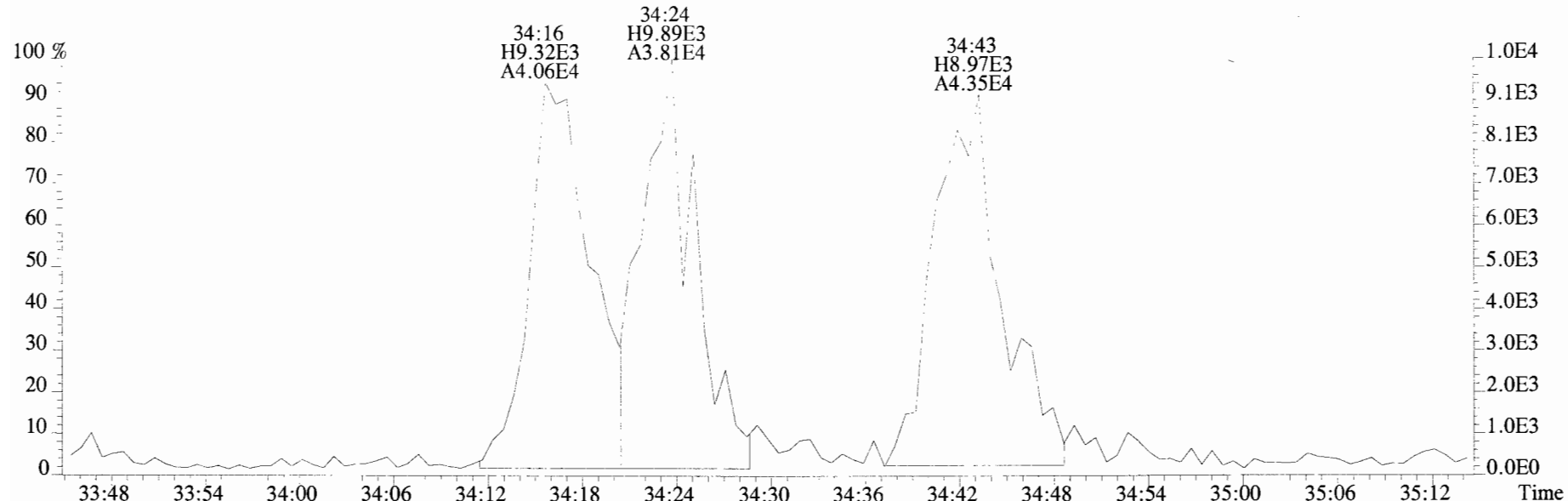
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



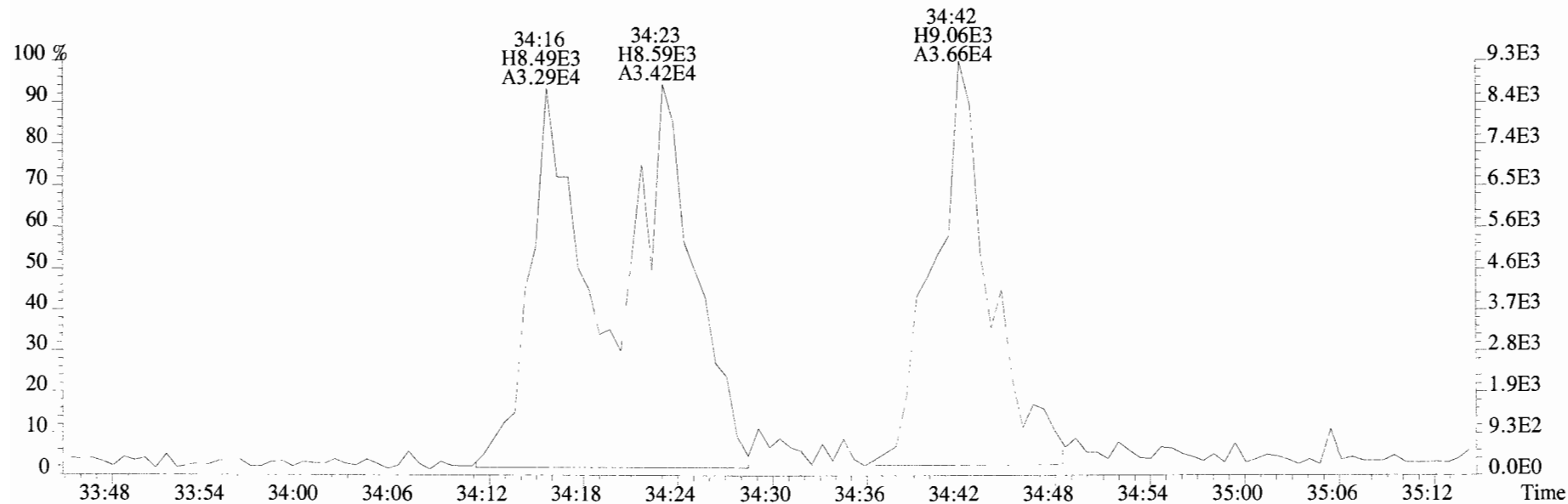
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
 389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



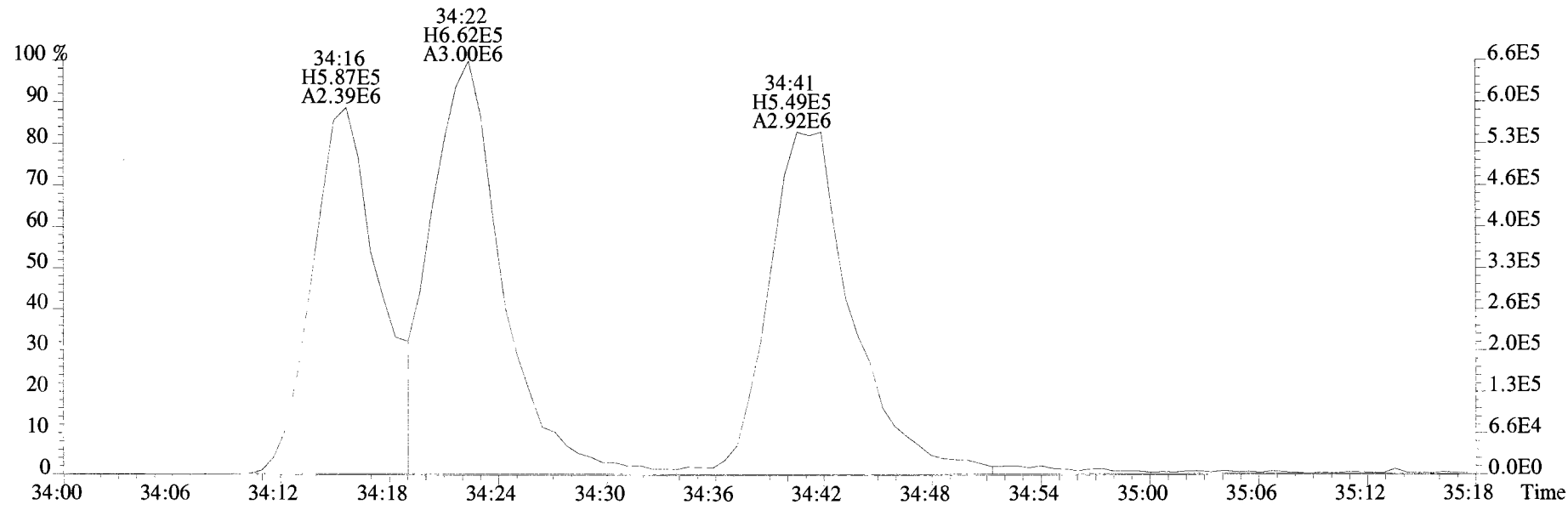
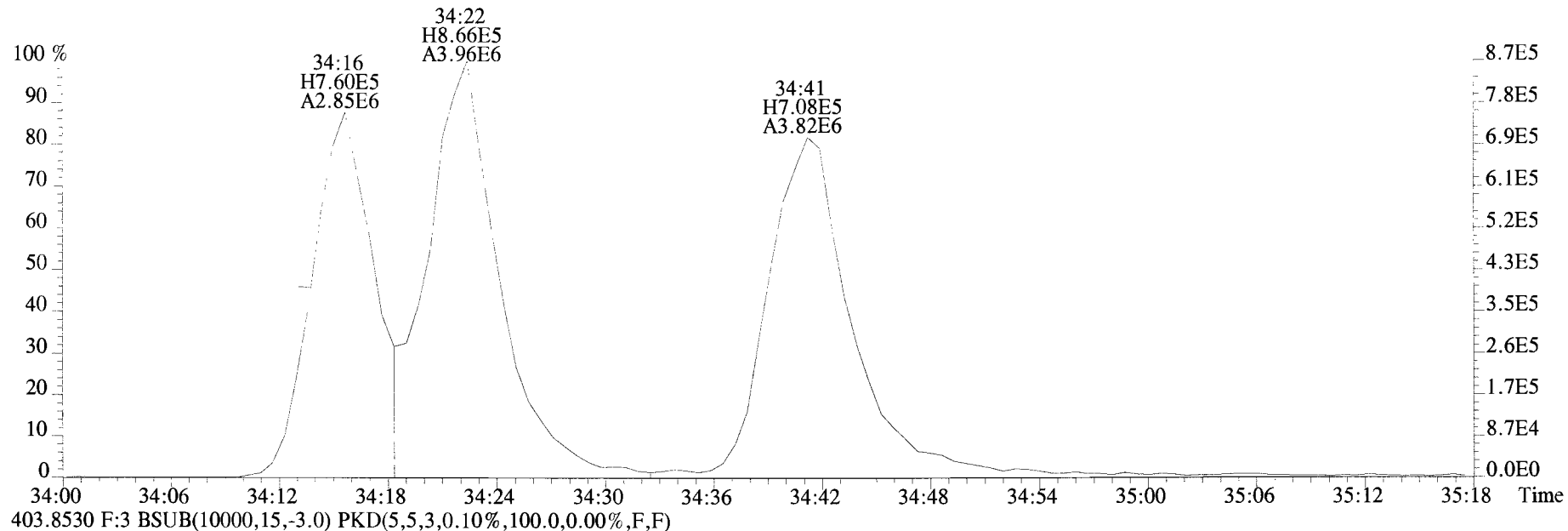
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



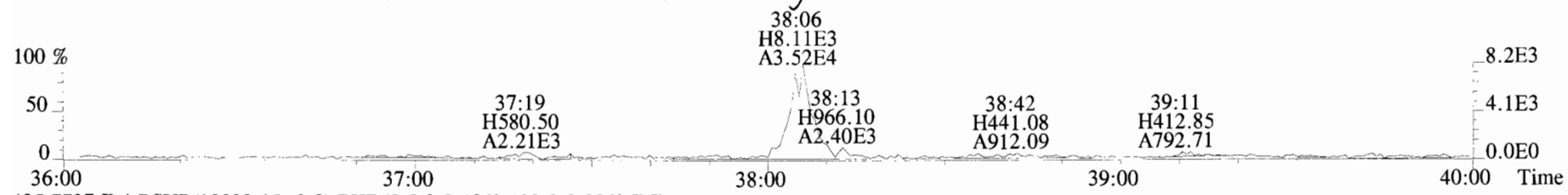
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



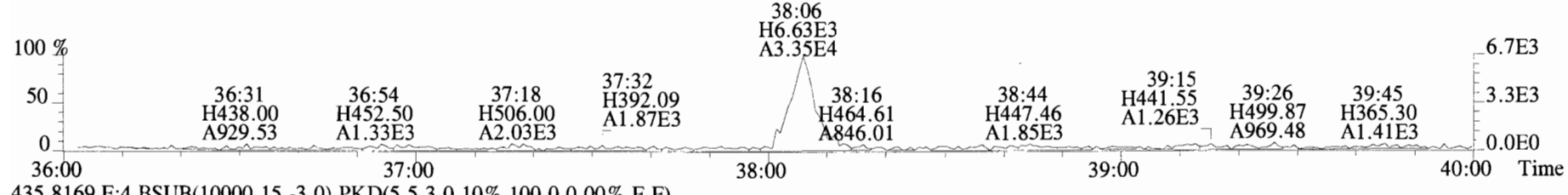
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



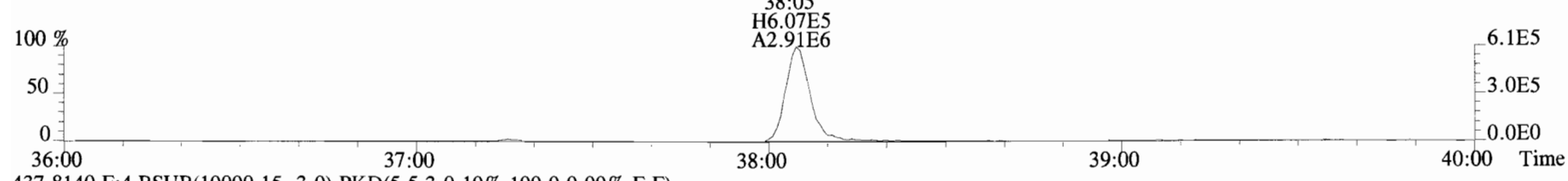
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



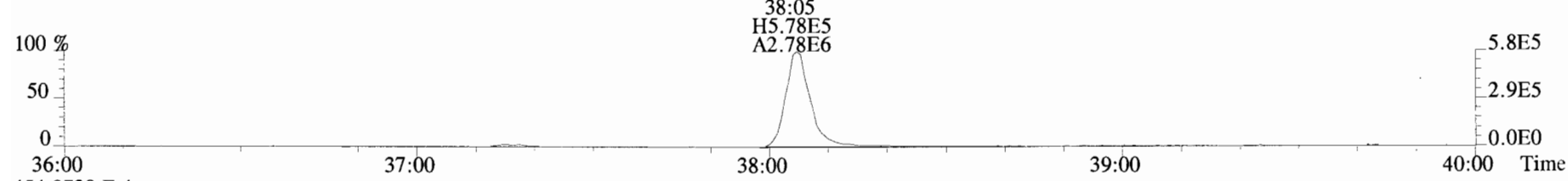
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



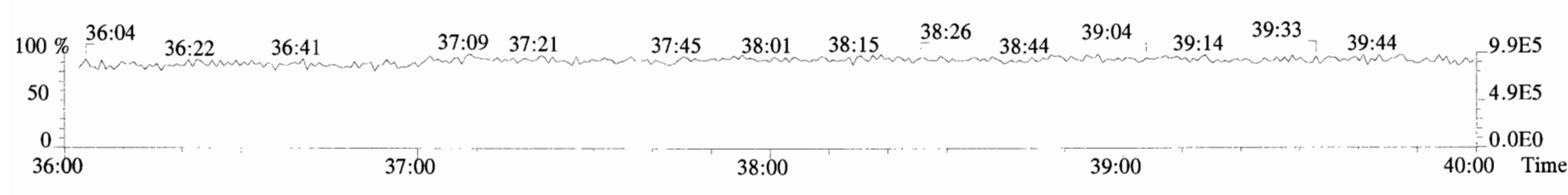
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



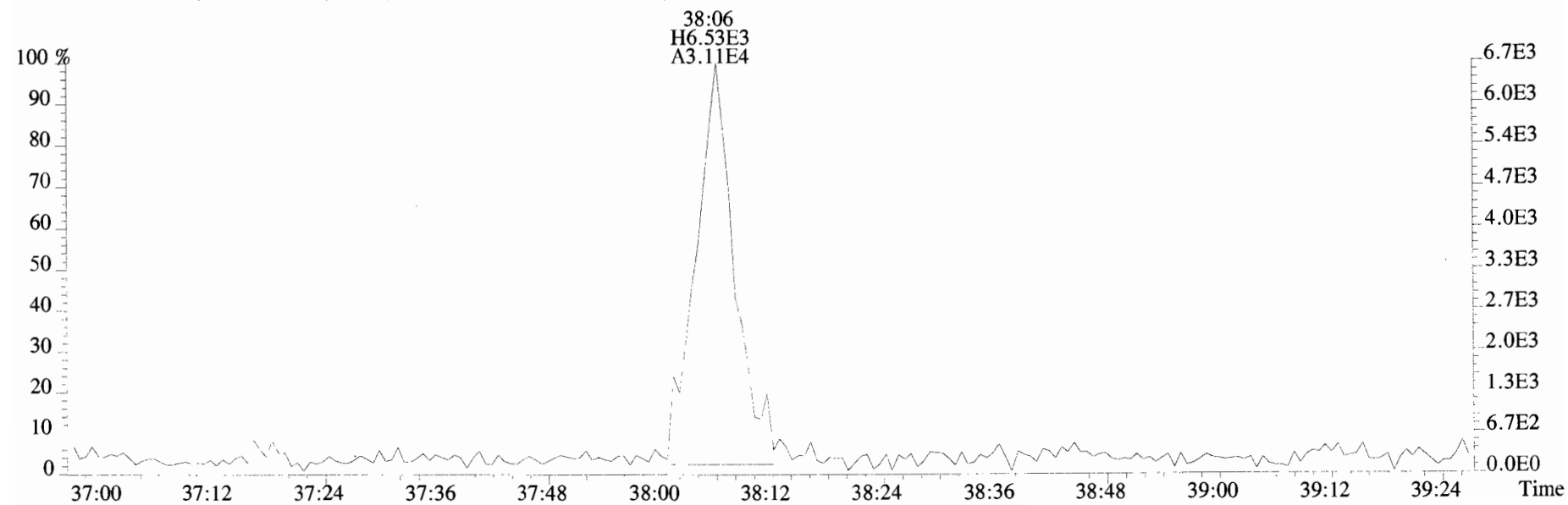
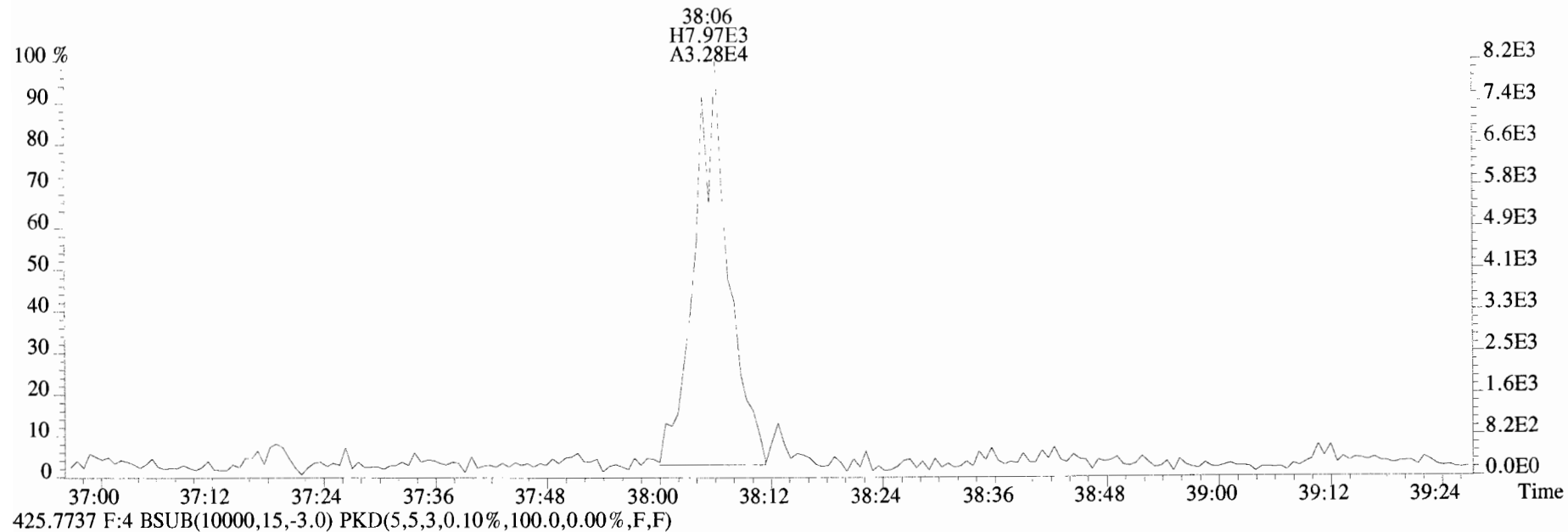
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



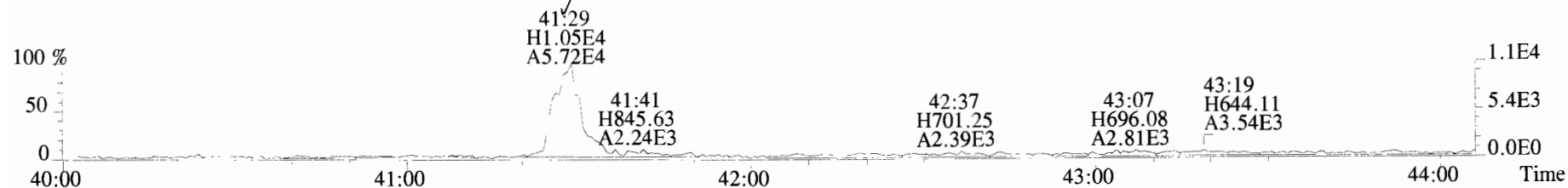
454.9728 F:4



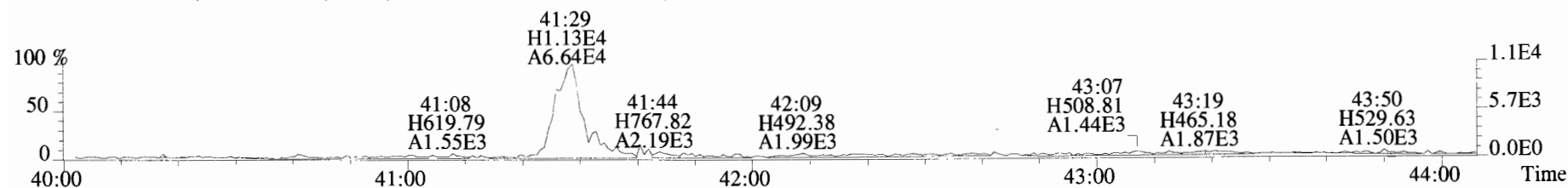
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



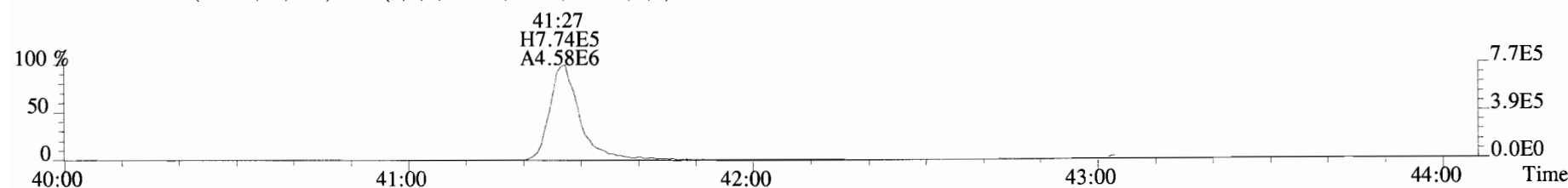
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
457.7377 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



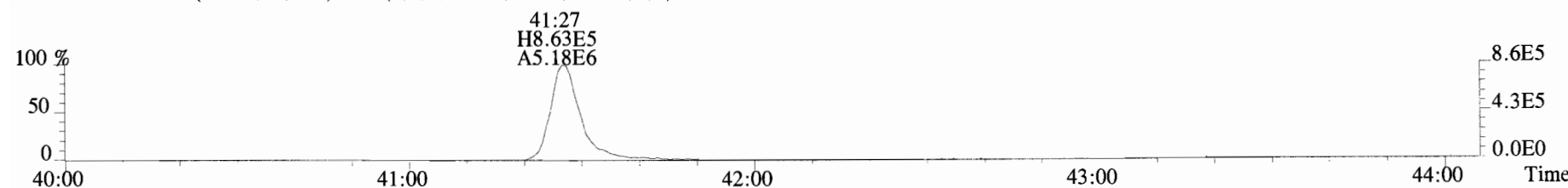
459.7348 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



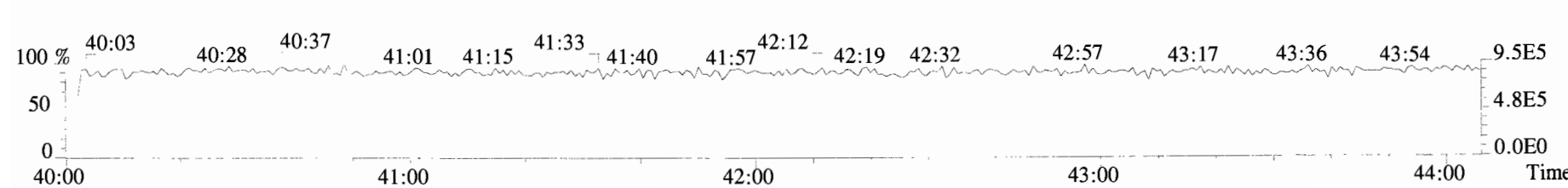
469.7780 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



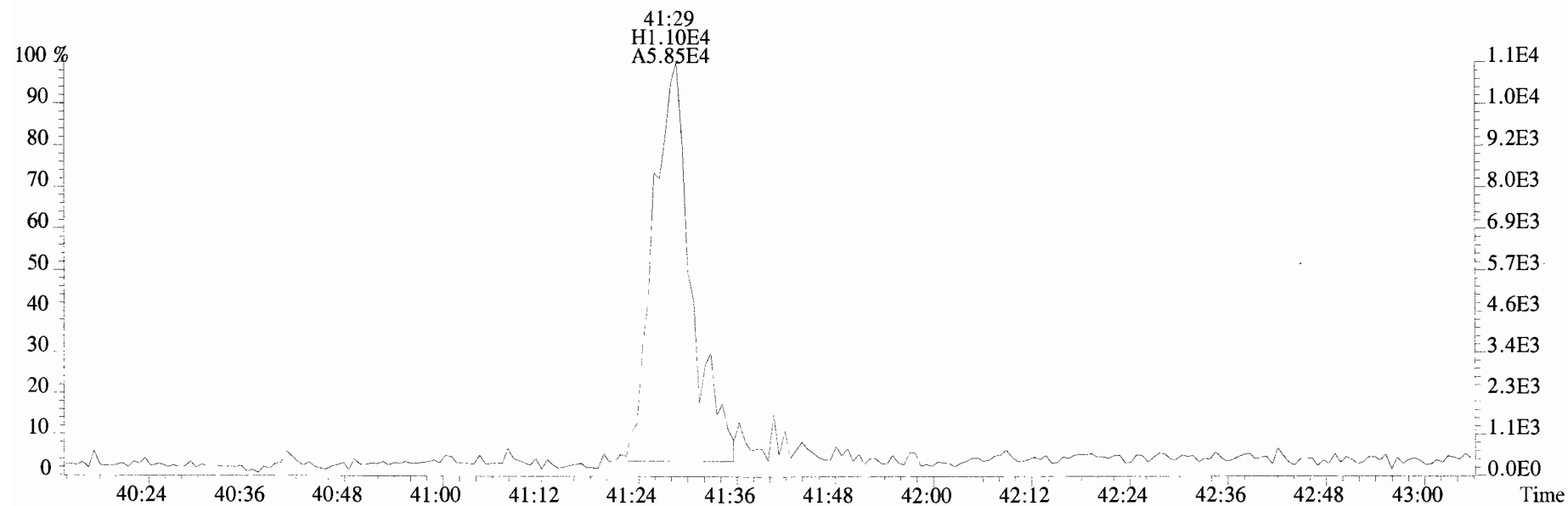
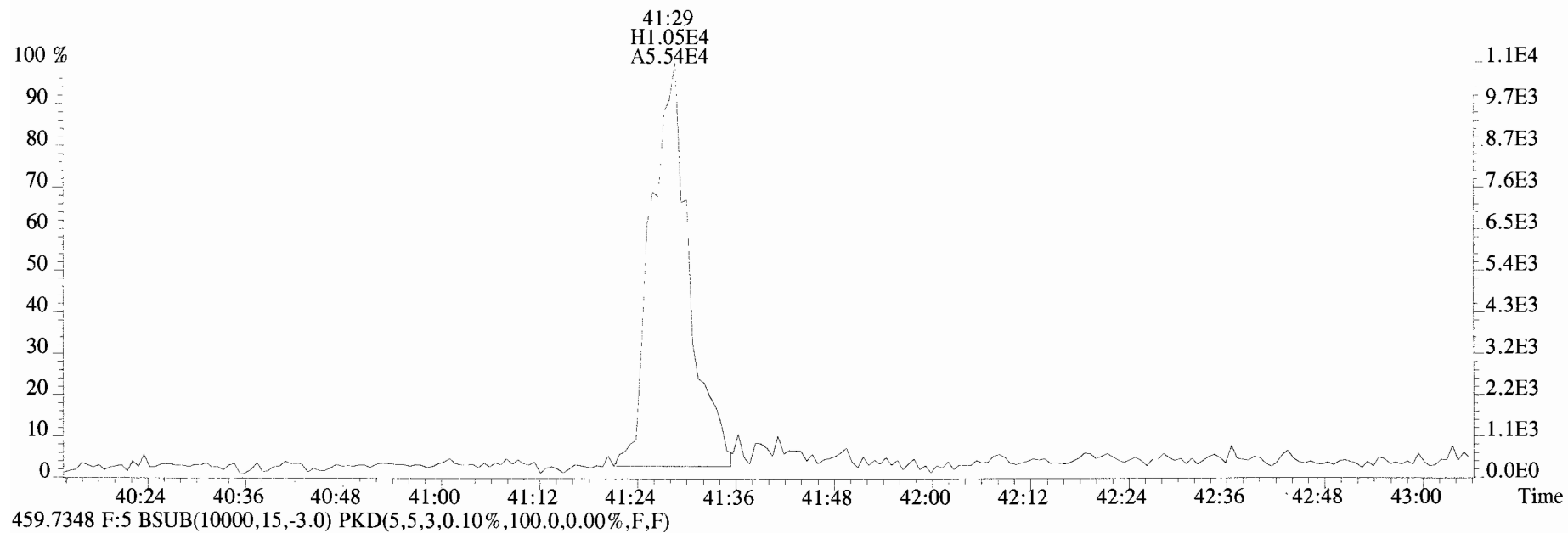
471.7750 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



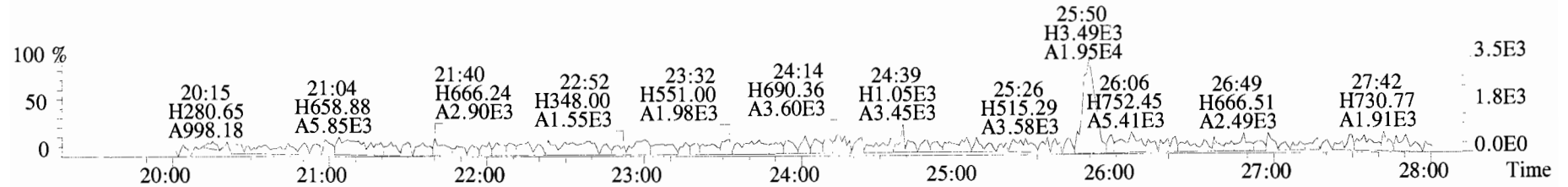
454.9728 F:5



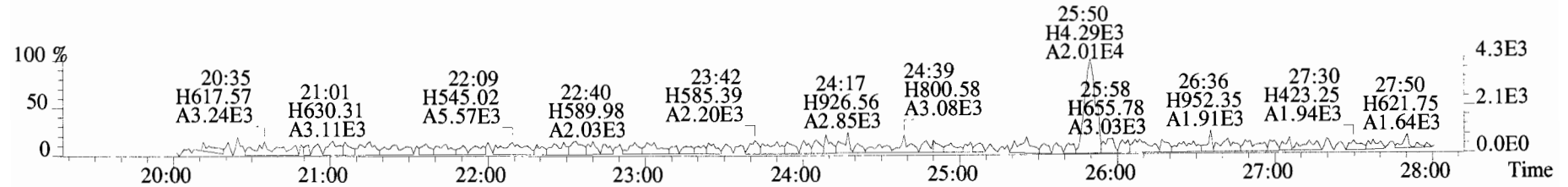
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



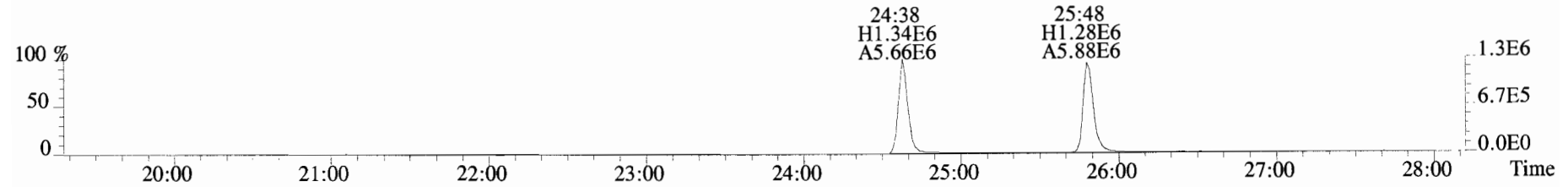
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



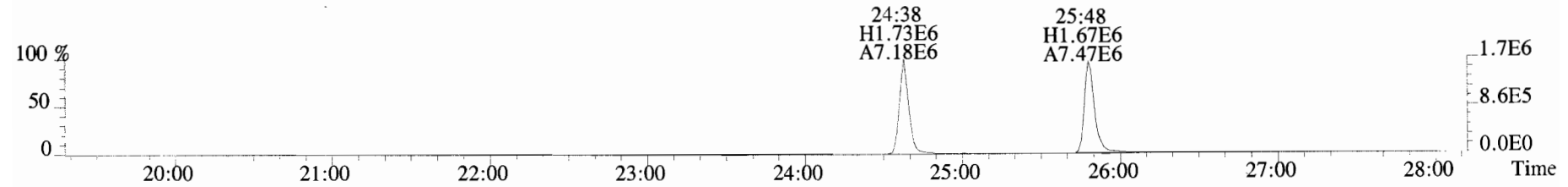
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



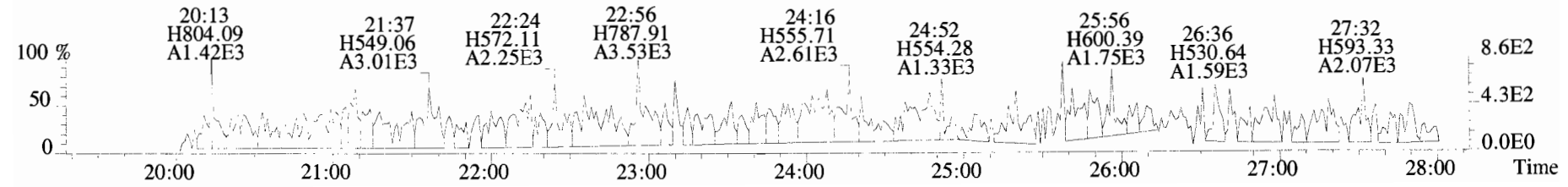
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



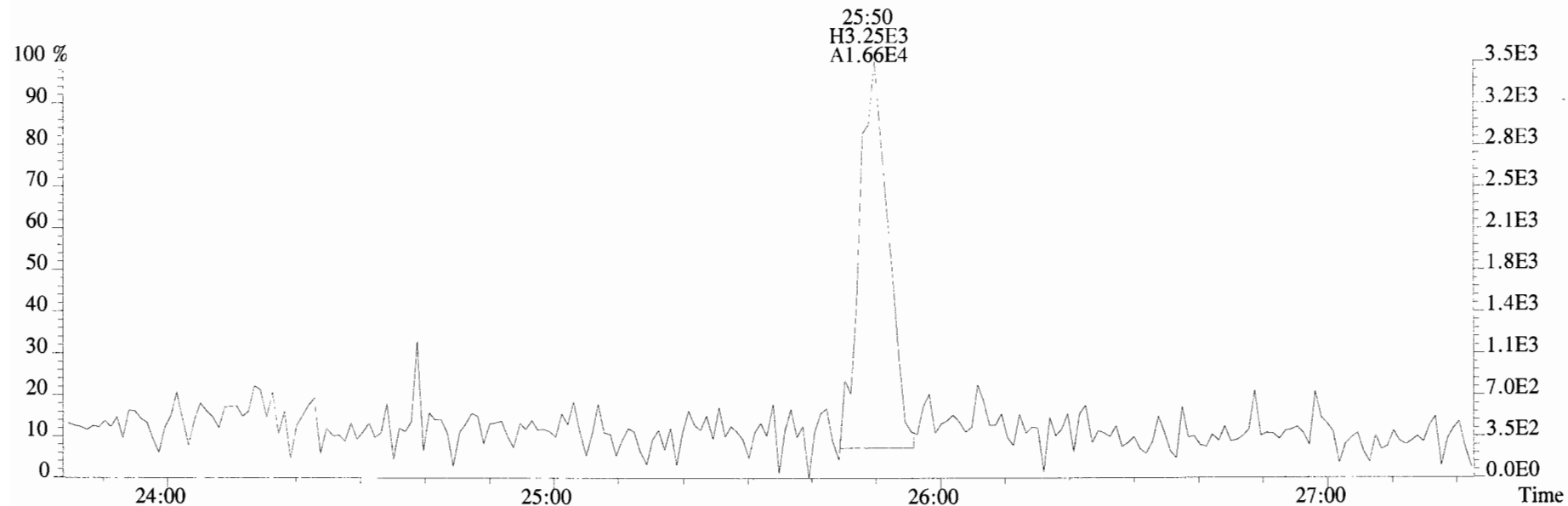
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



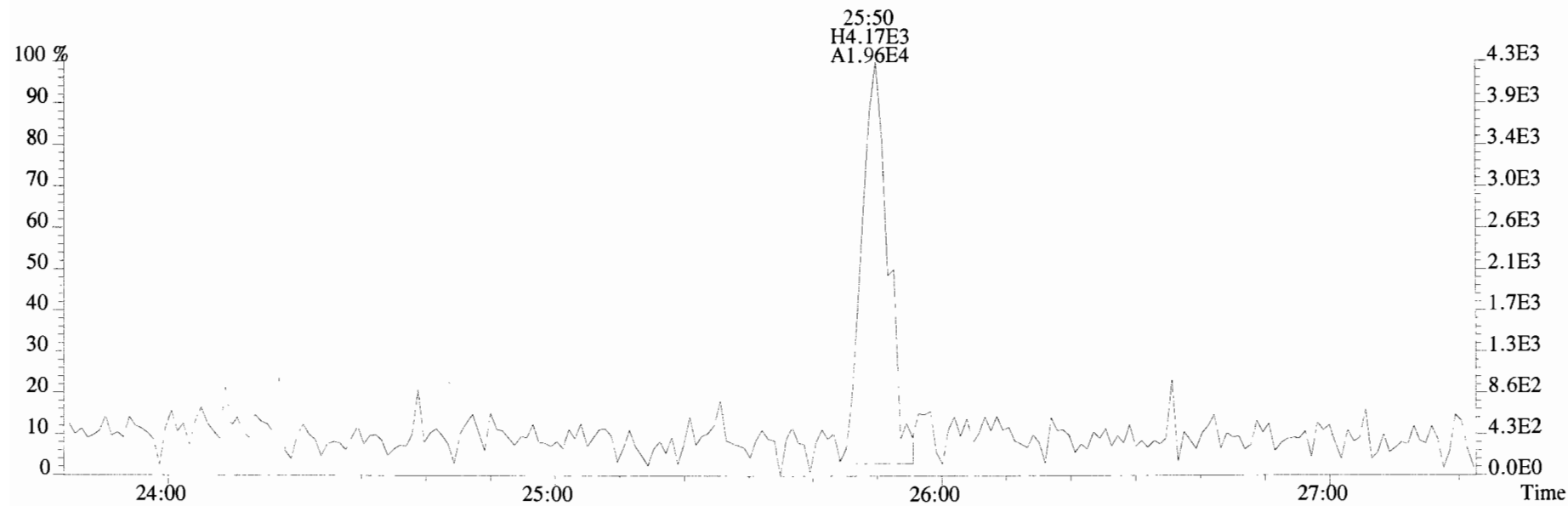
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



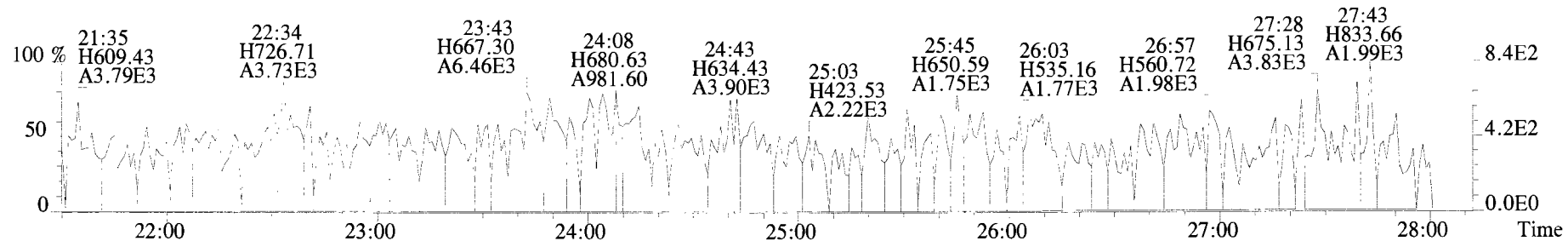
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



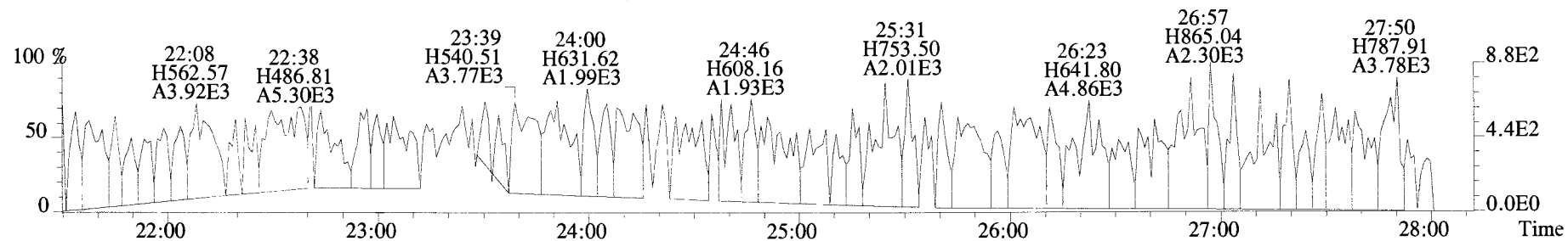
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



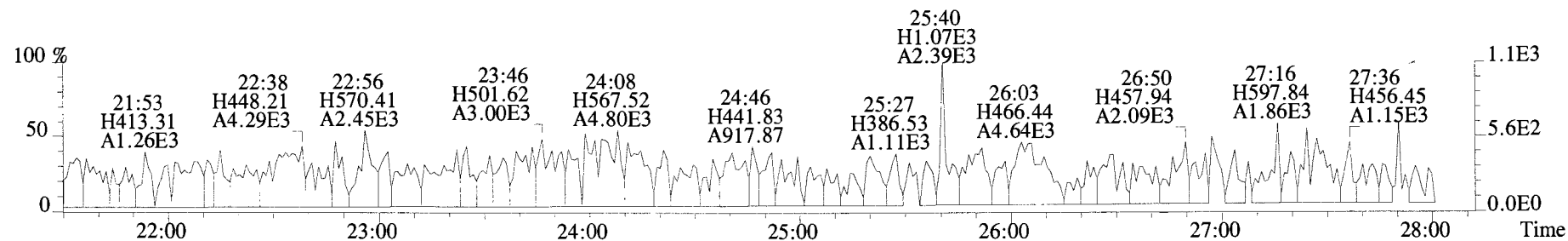
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



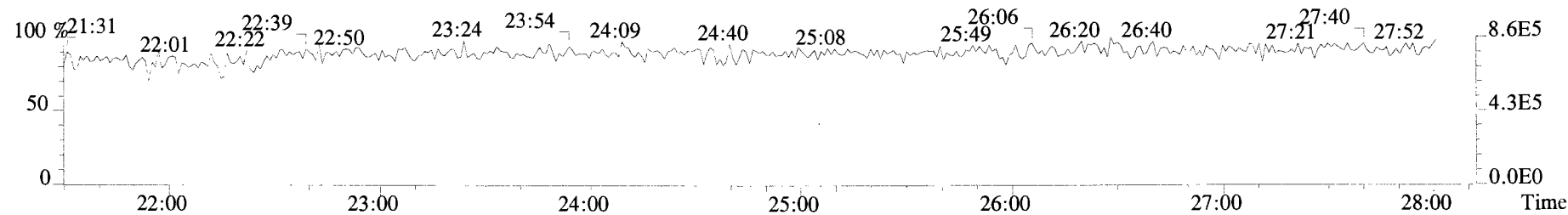
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



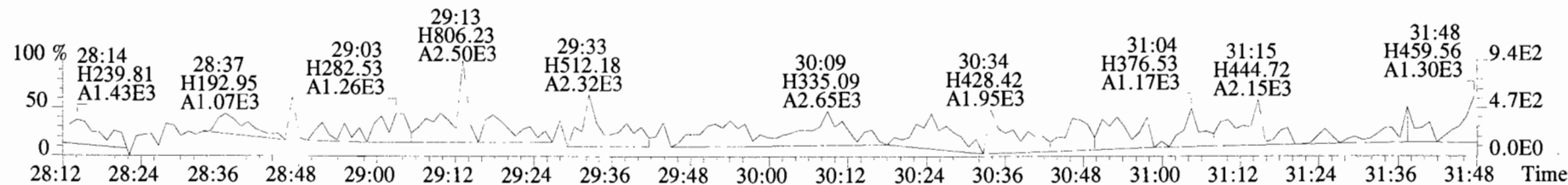
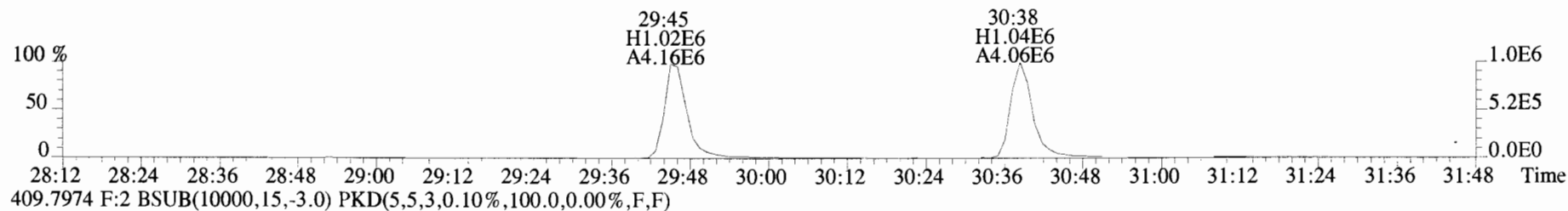
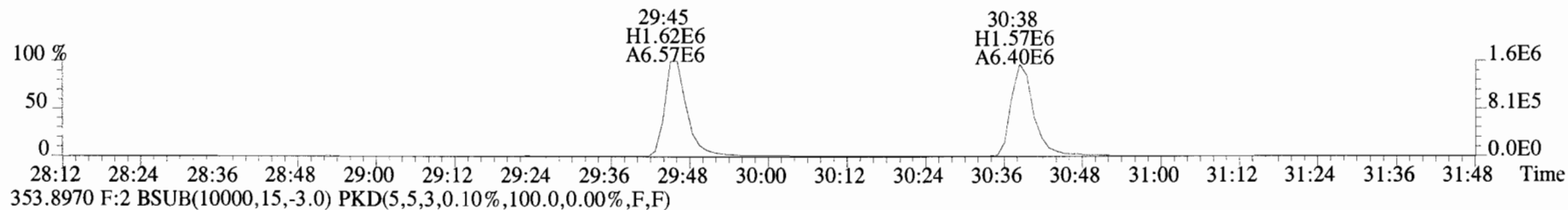
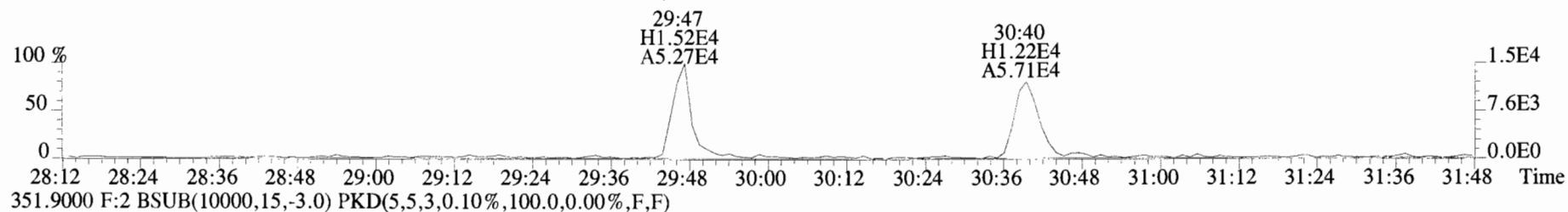
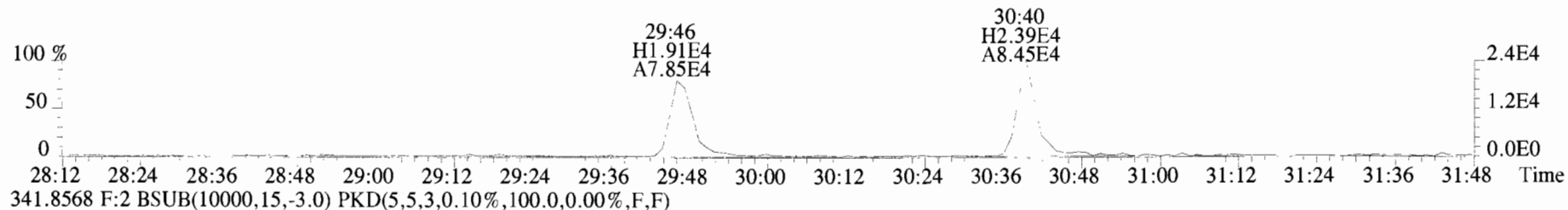
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



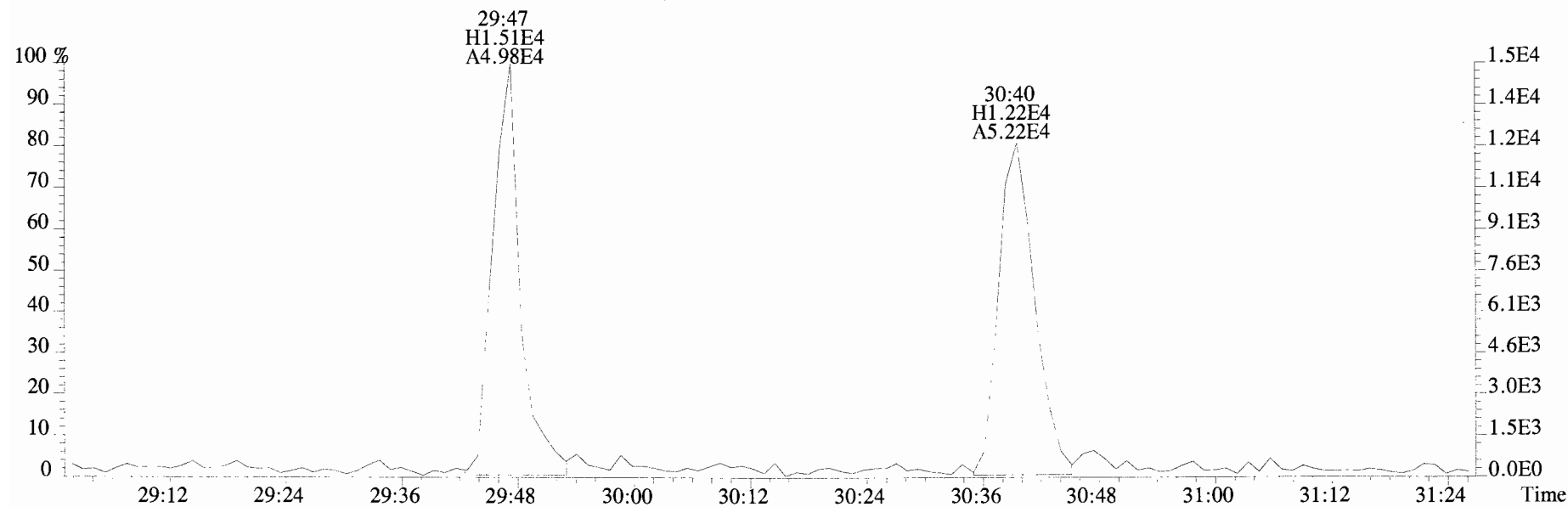
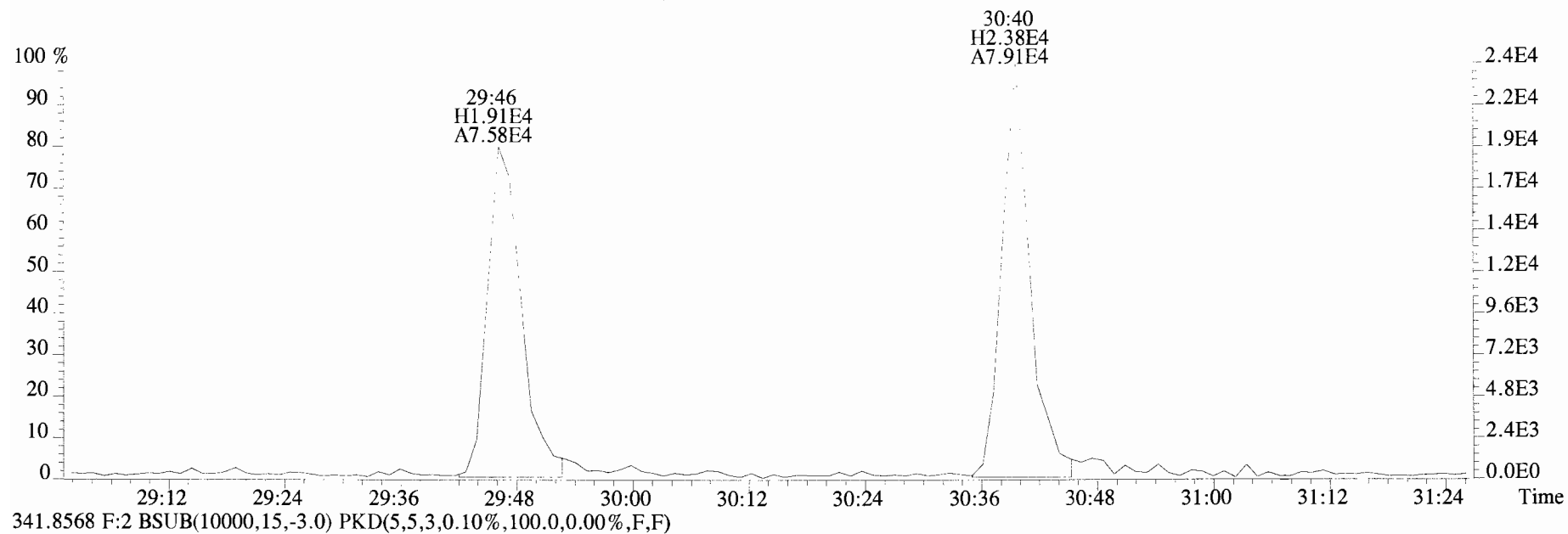
316.9824



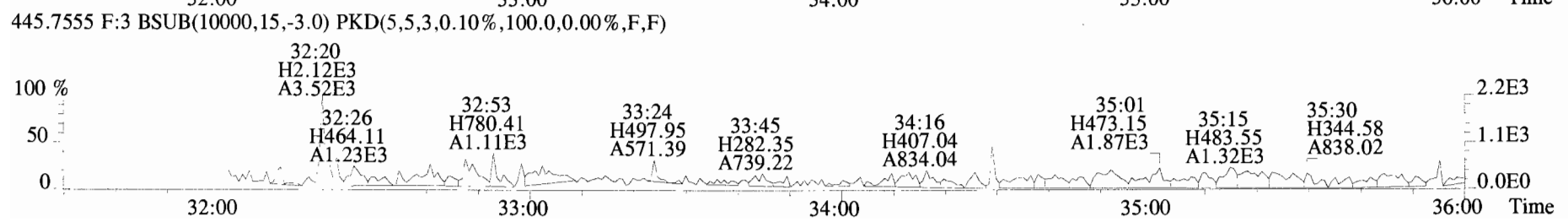
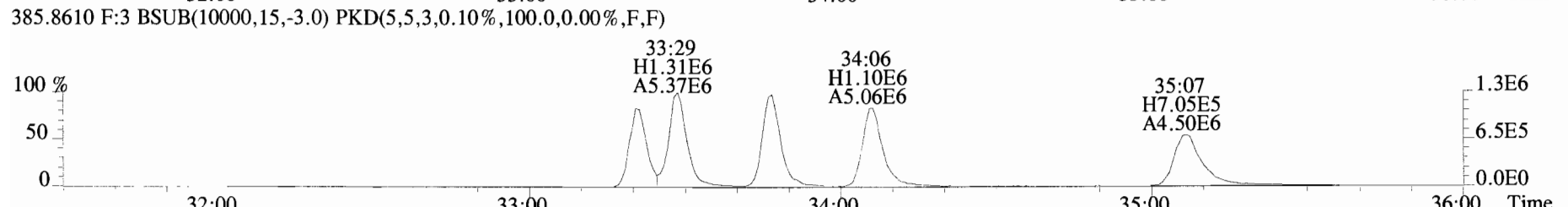
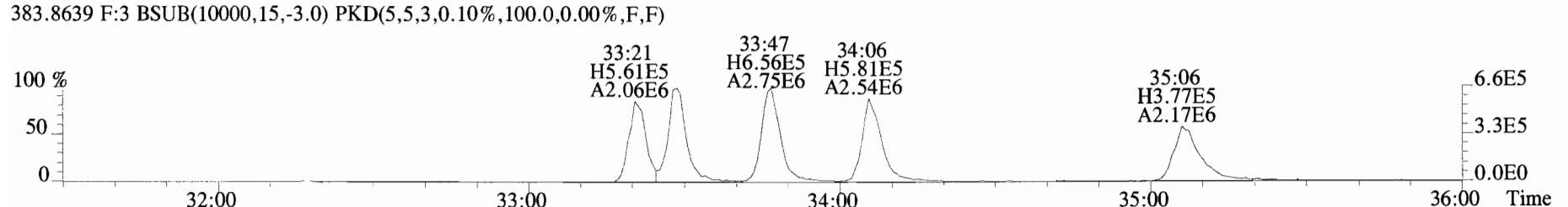
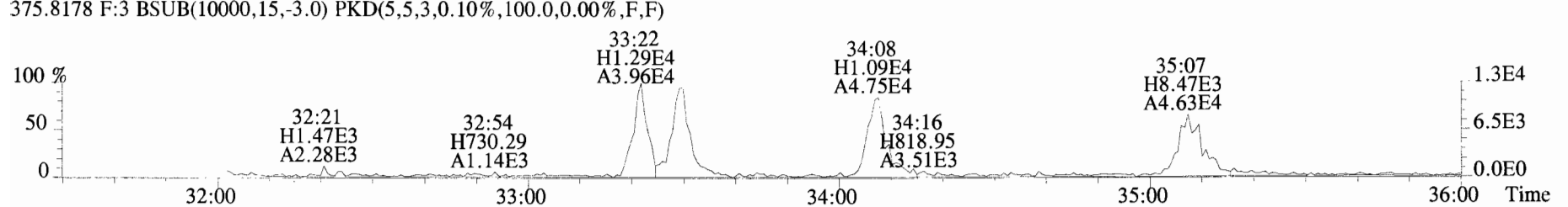
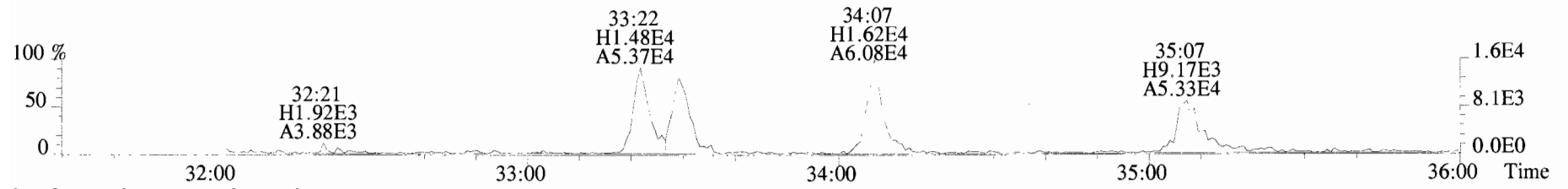
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



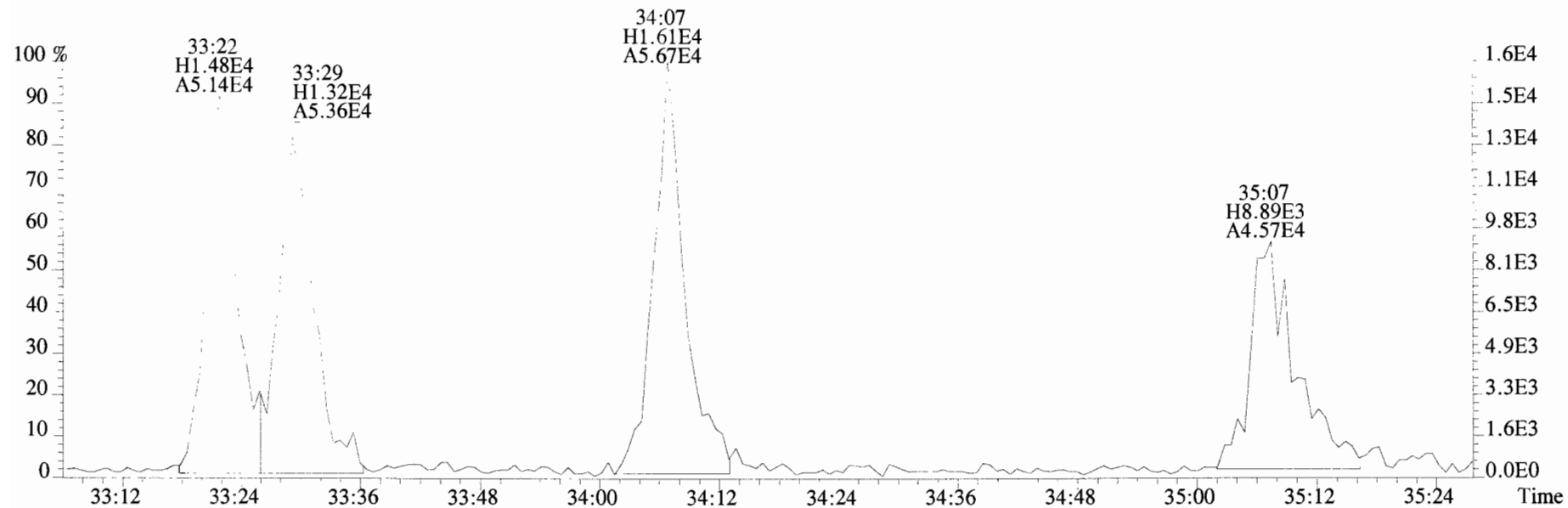
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



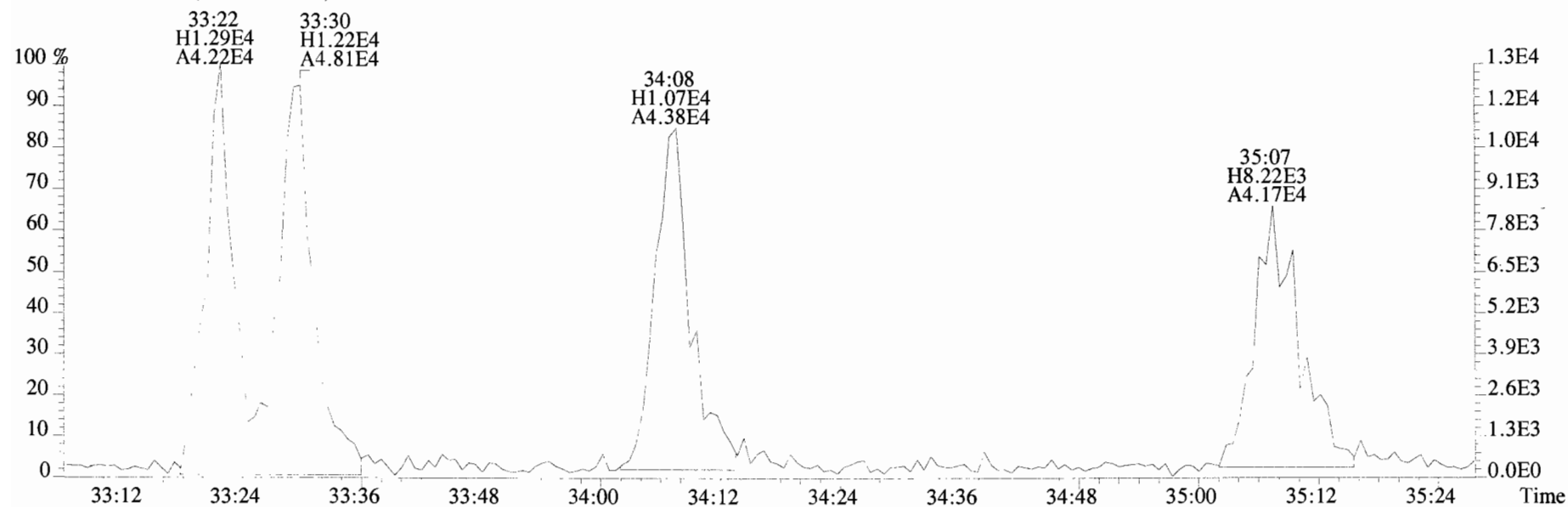
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



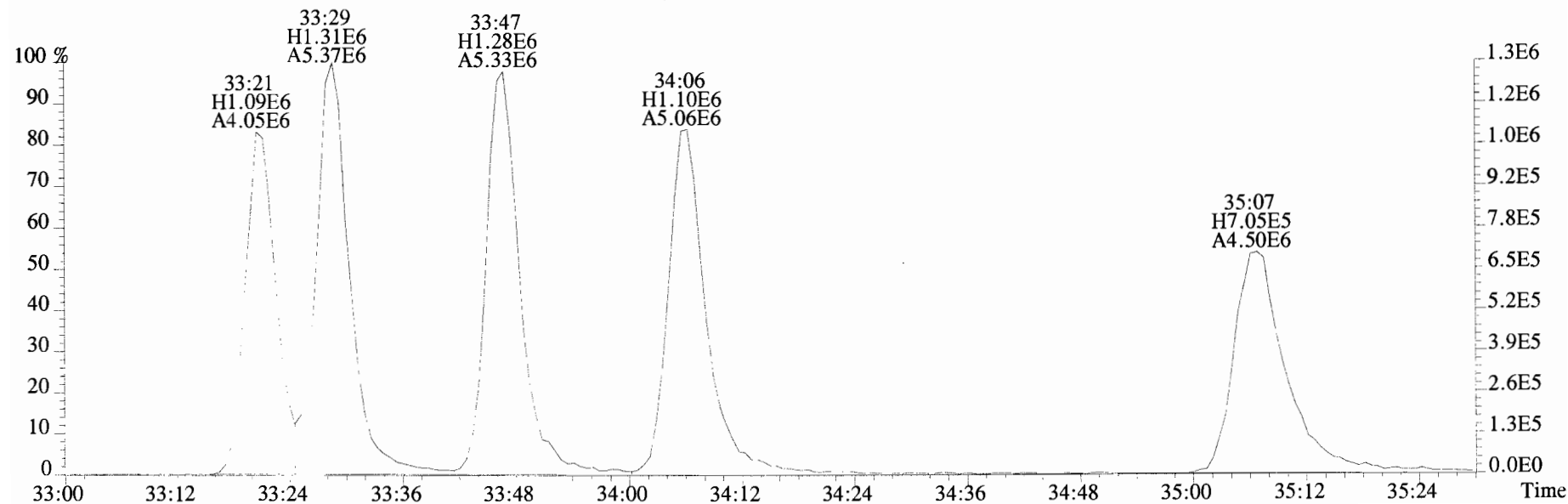
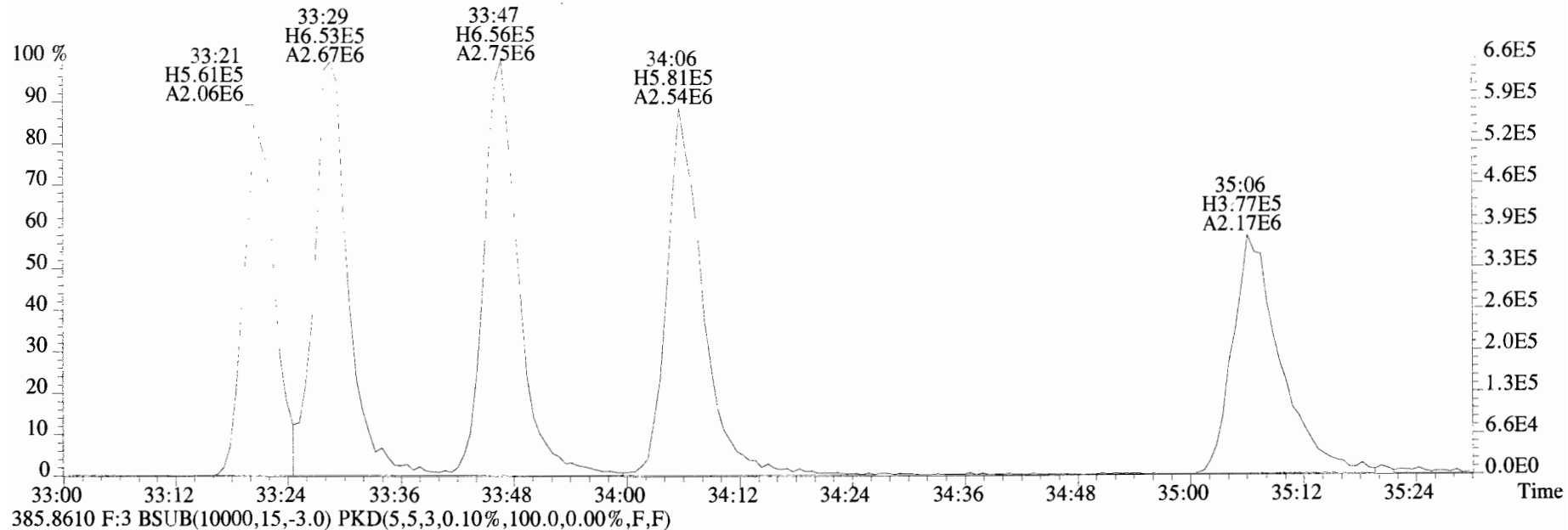
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
373.8207 F:3 BSUB(10000,15,-3.0)



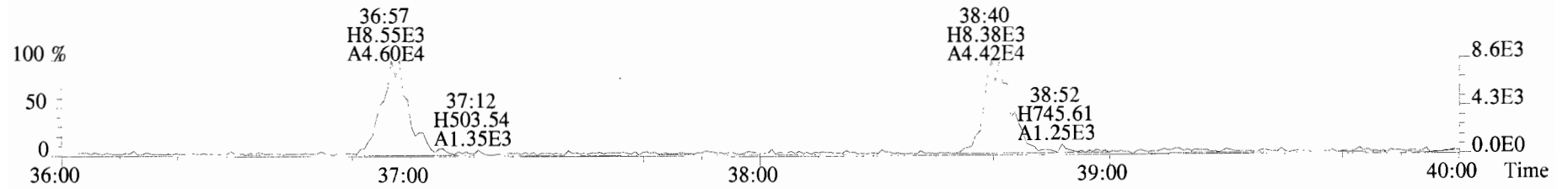
375.8178 F:3 BSUB(10000,15,-3.0)



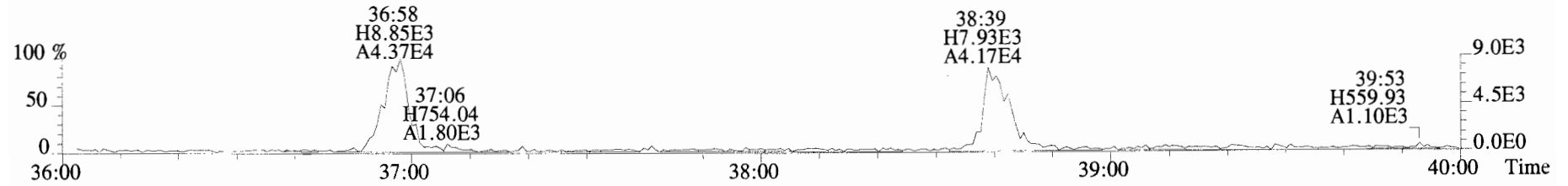
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



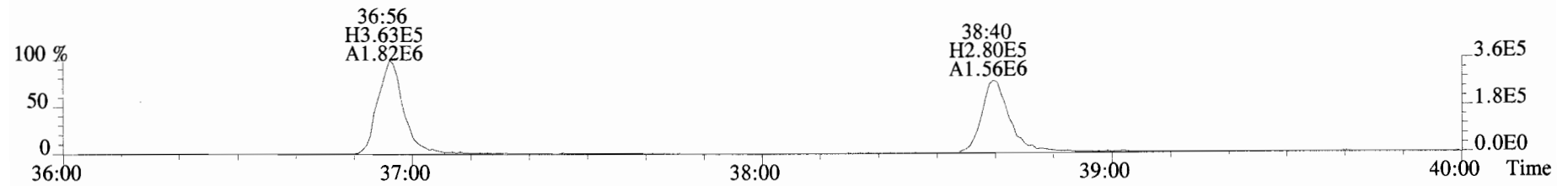
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



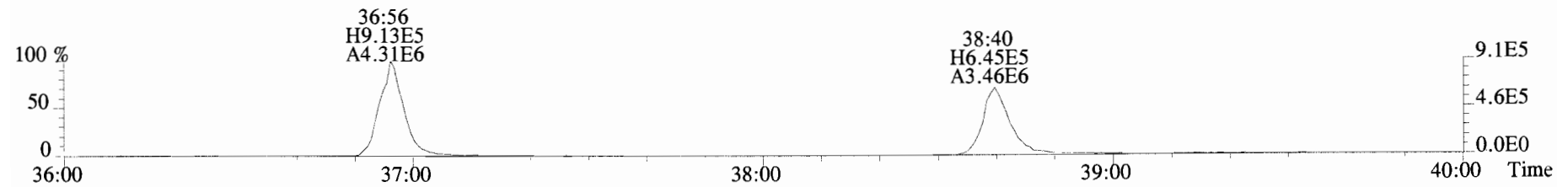
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



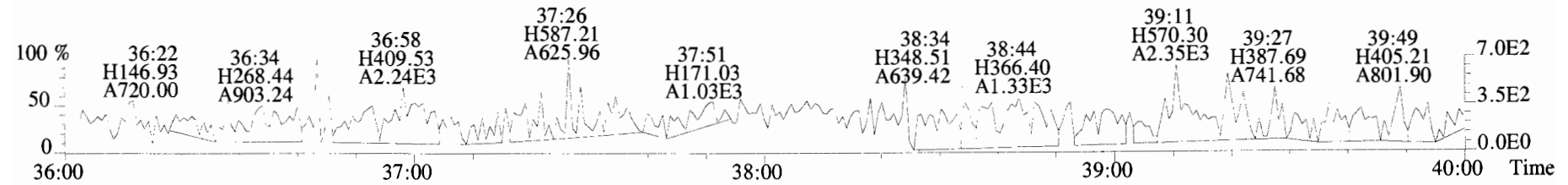
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



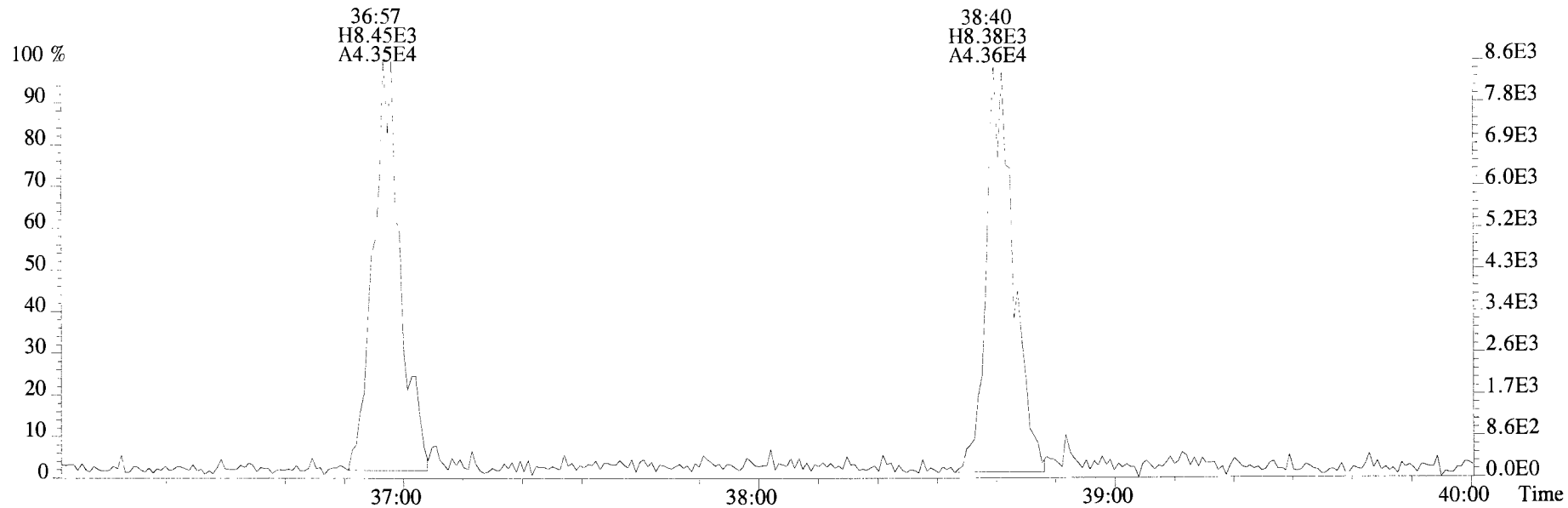
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



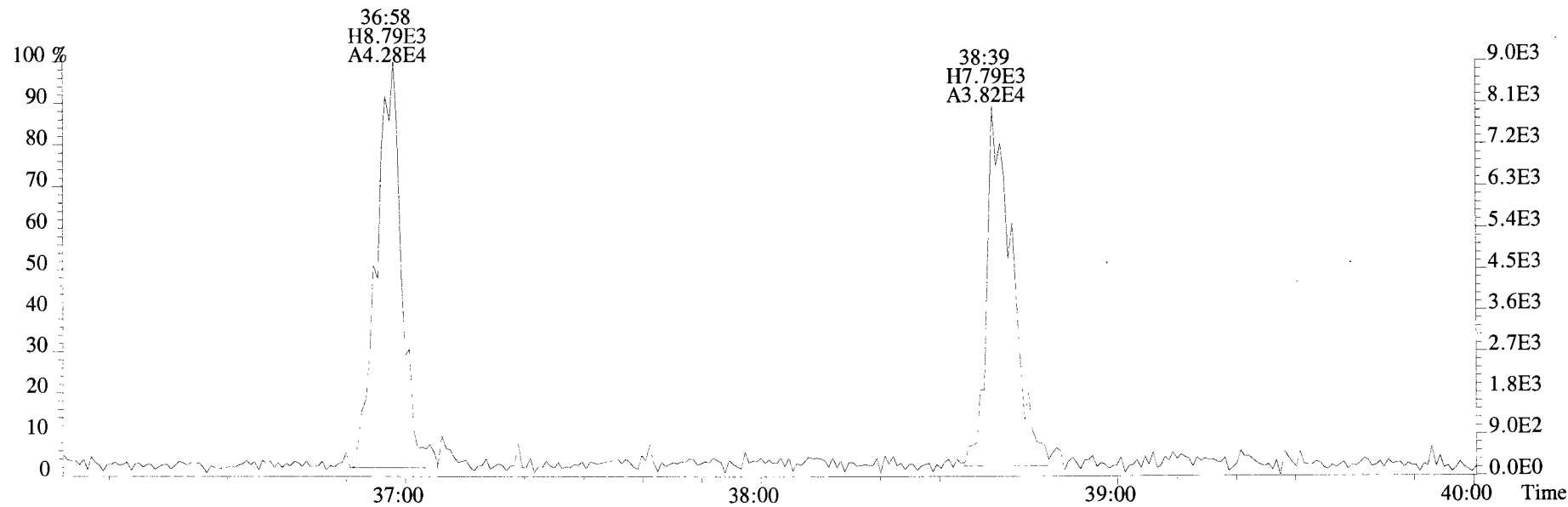
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



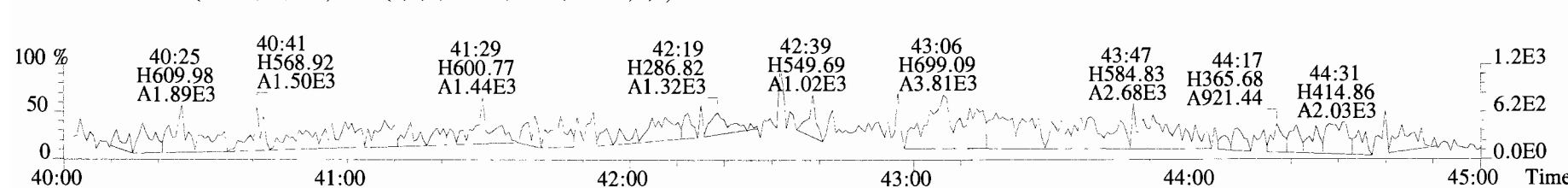
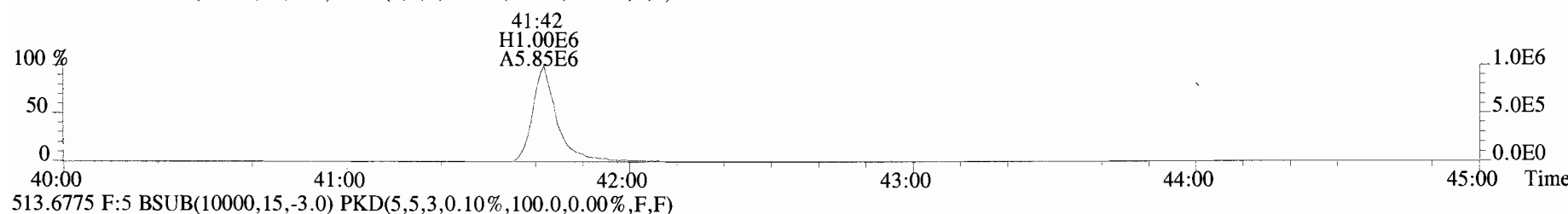
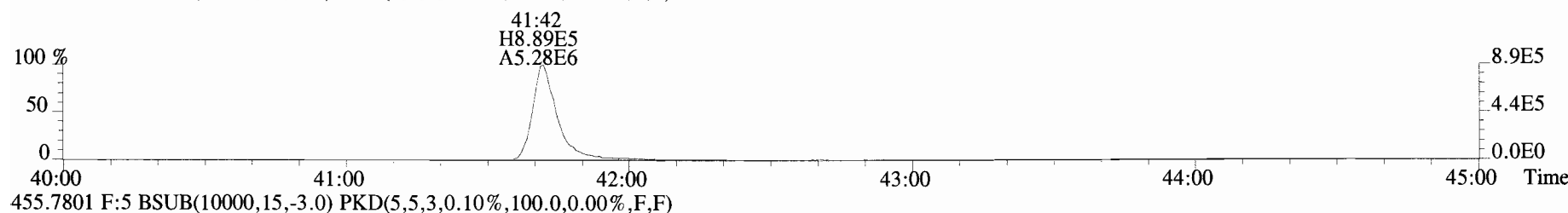
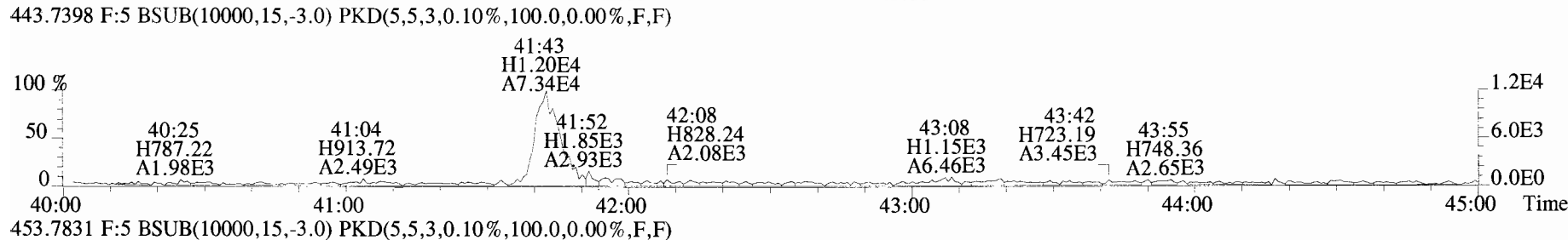
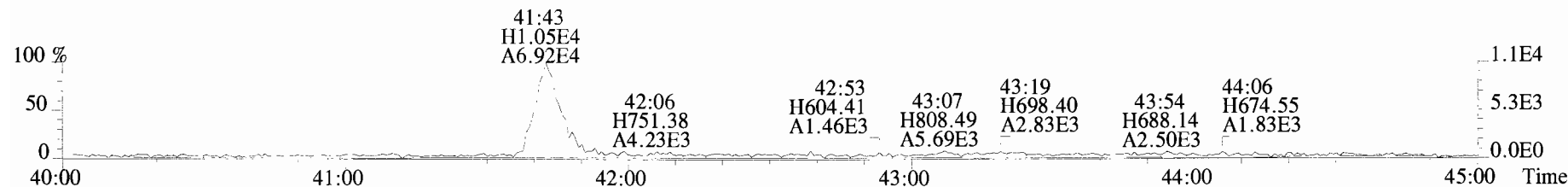
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



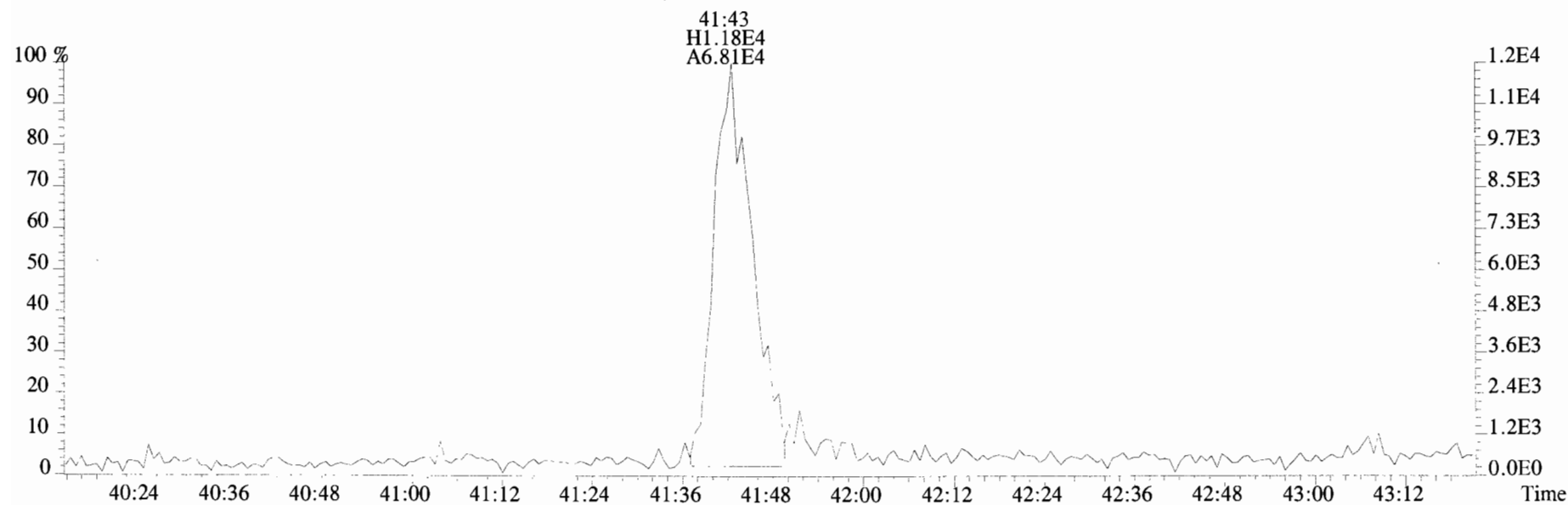
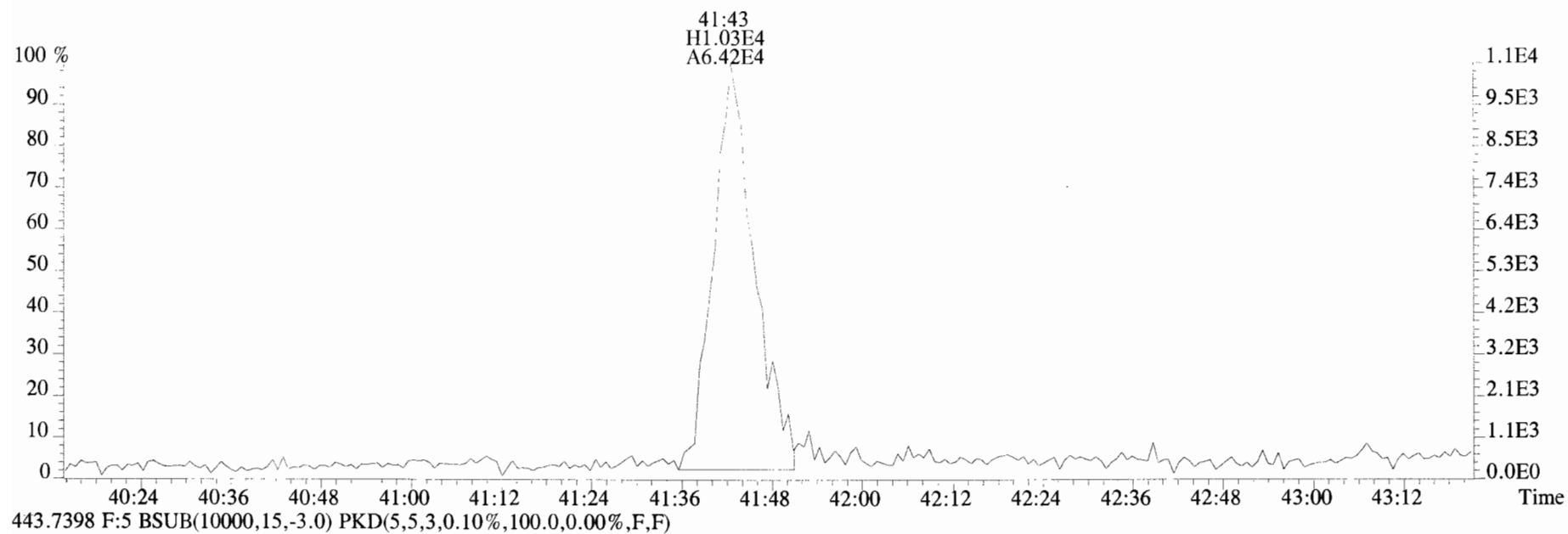
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



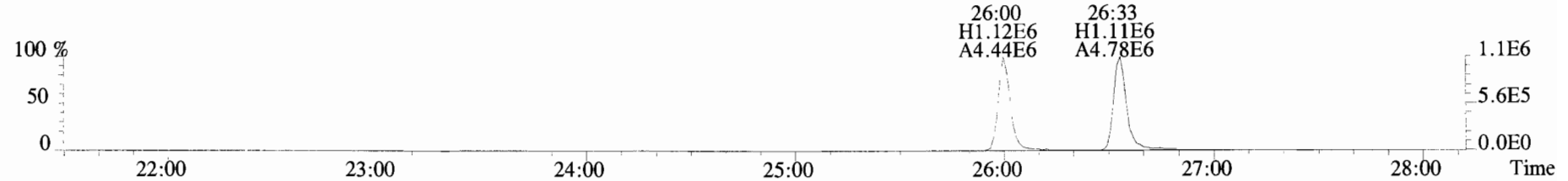
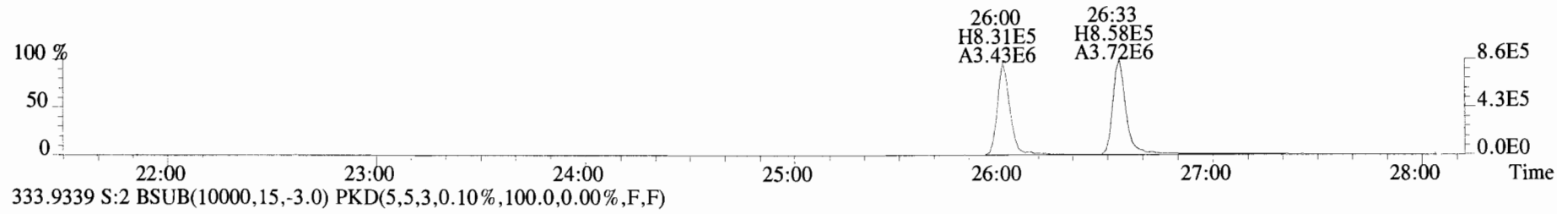
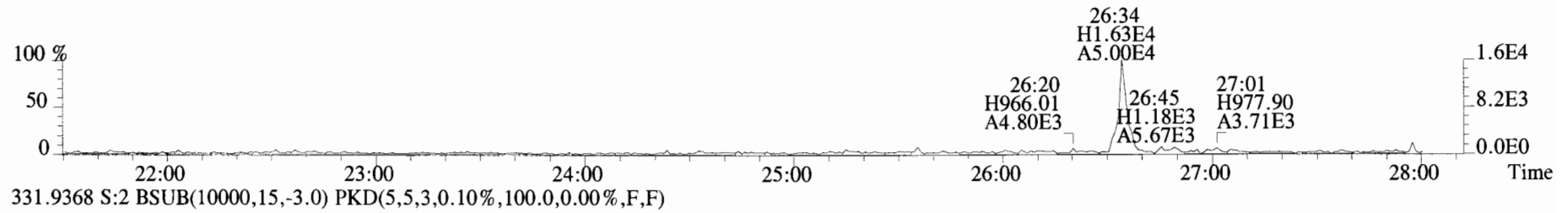
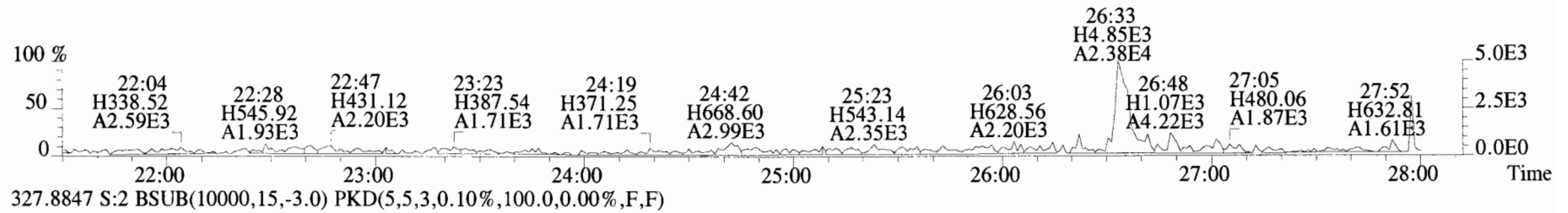
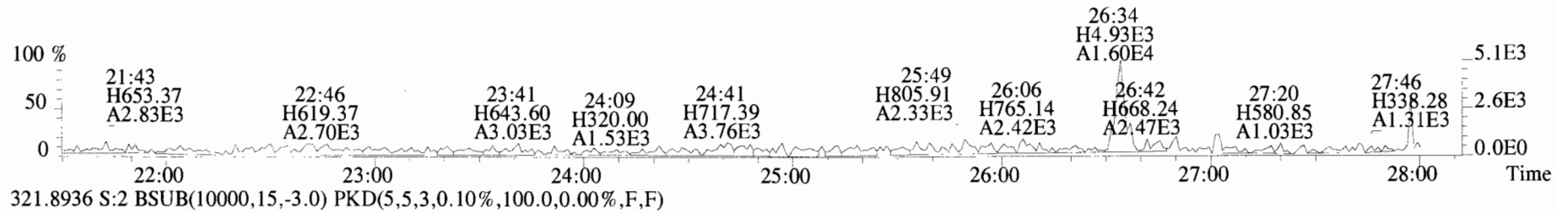
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



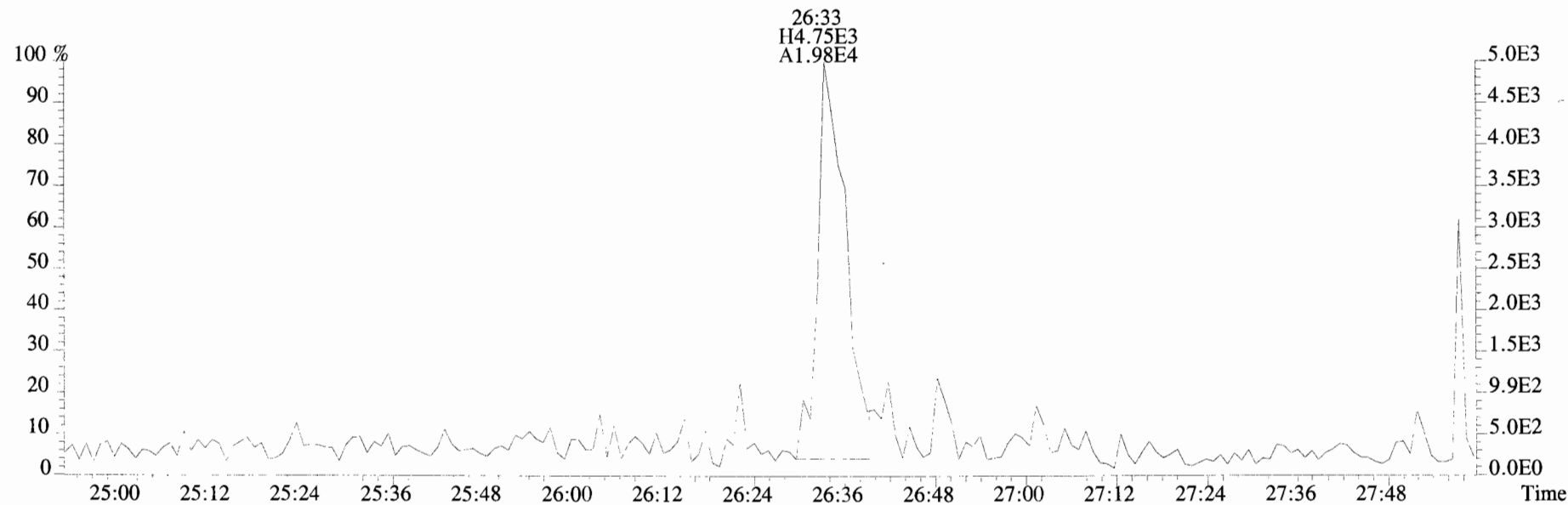
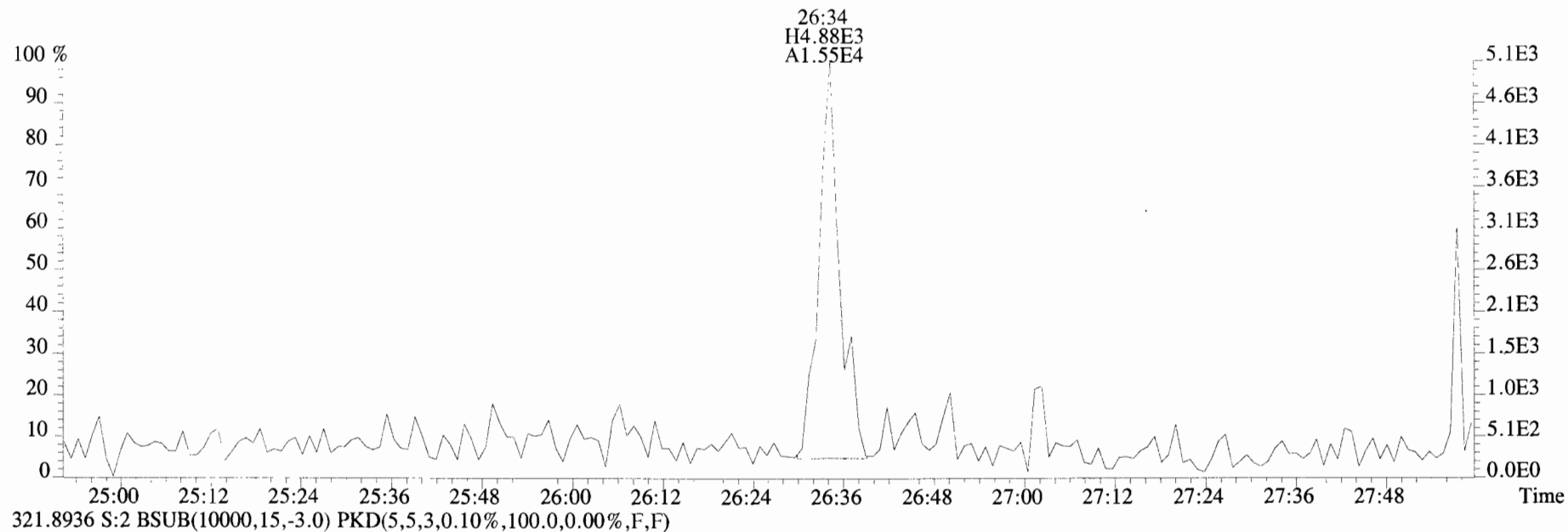
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



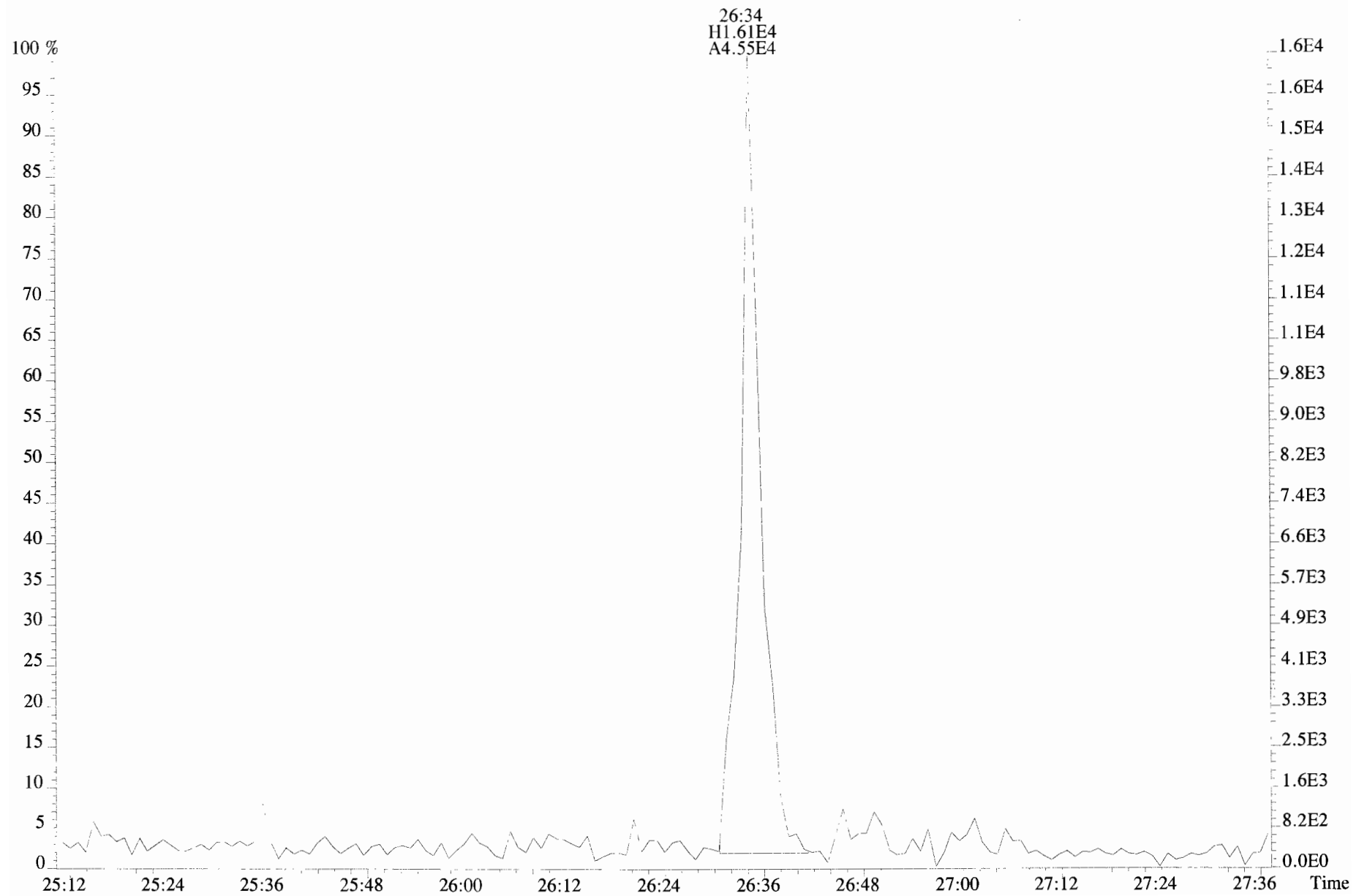
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



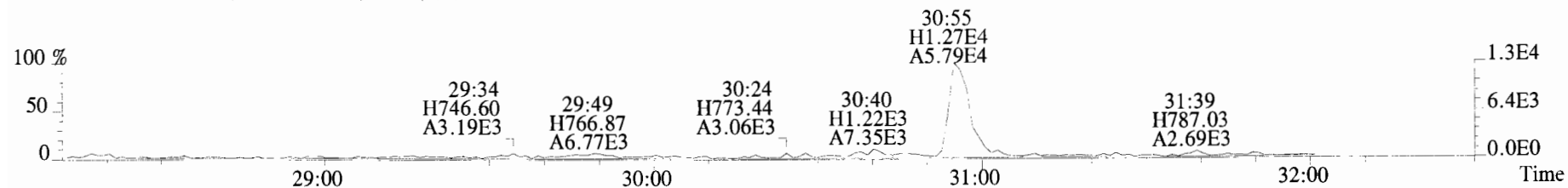
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



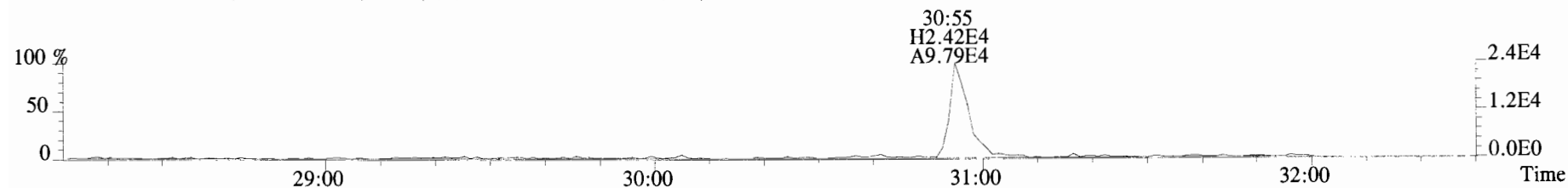
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



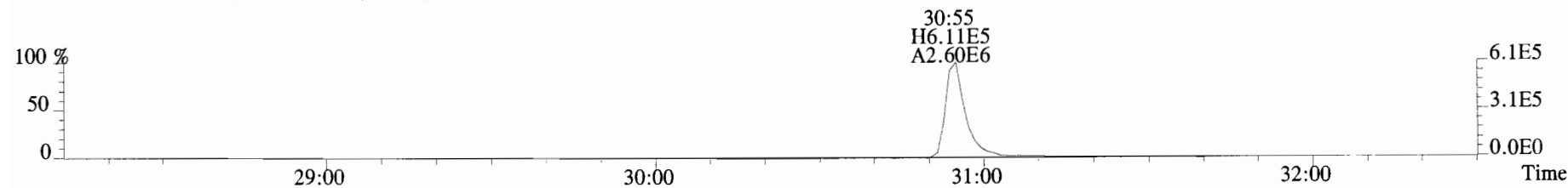
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



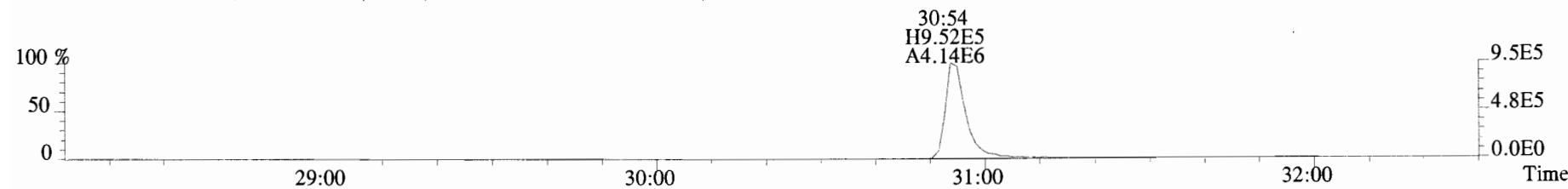
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



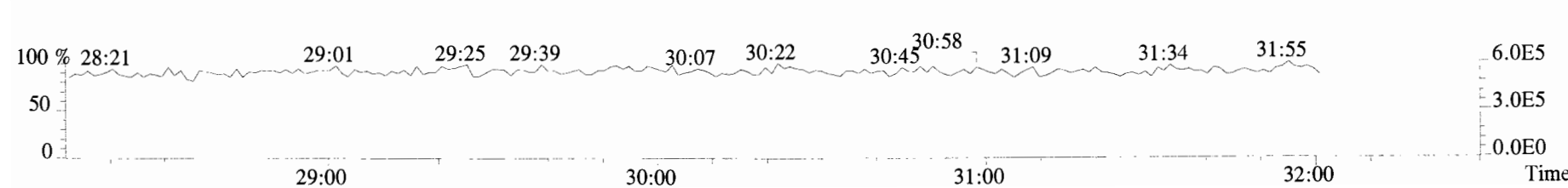
365.8978 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



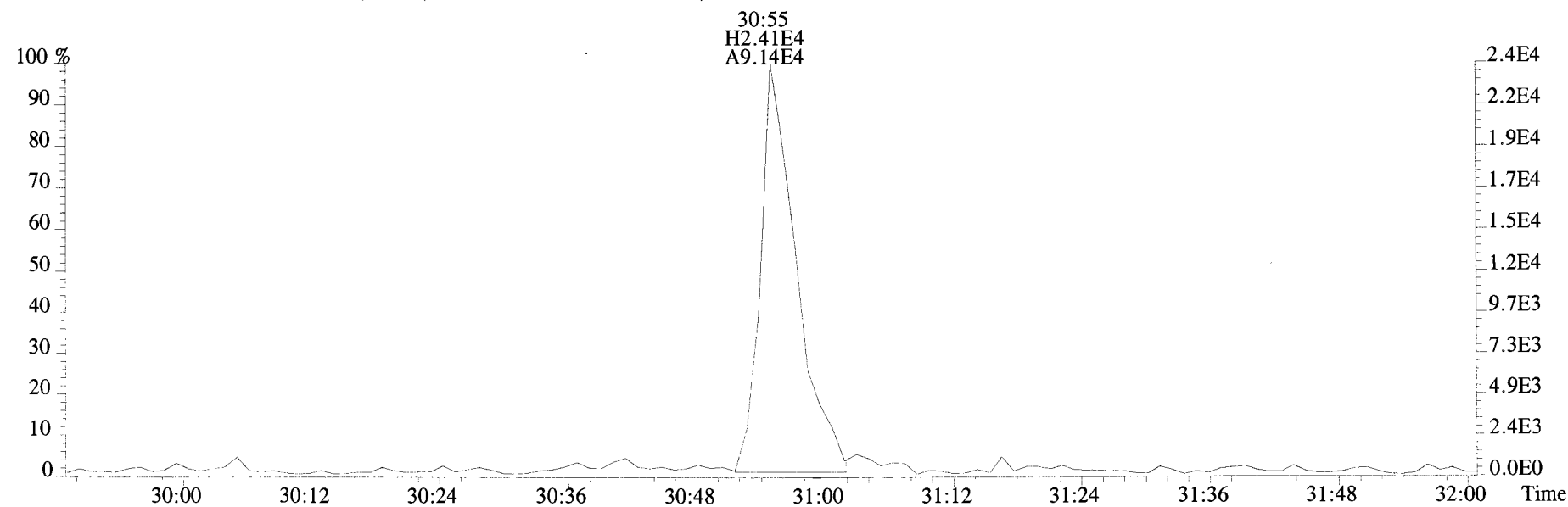
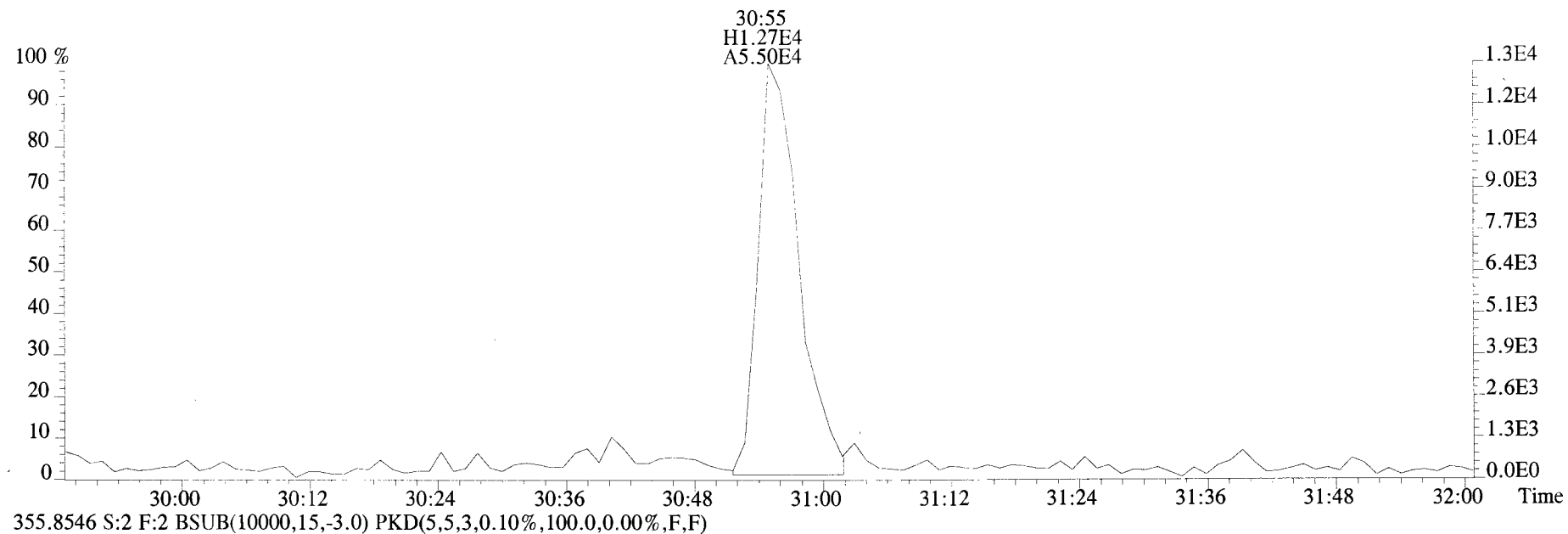
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



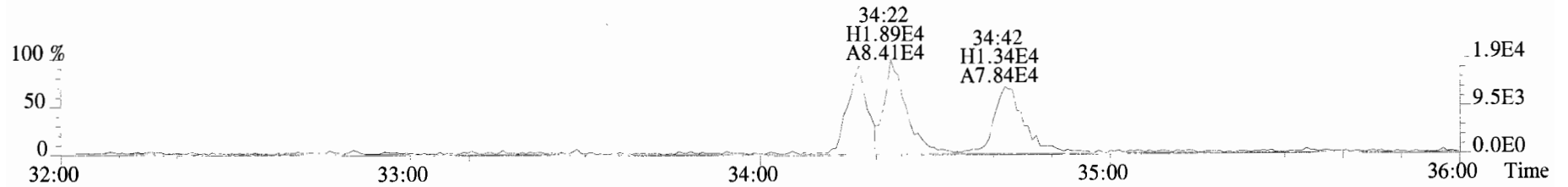
366.9792 S:2 F:2



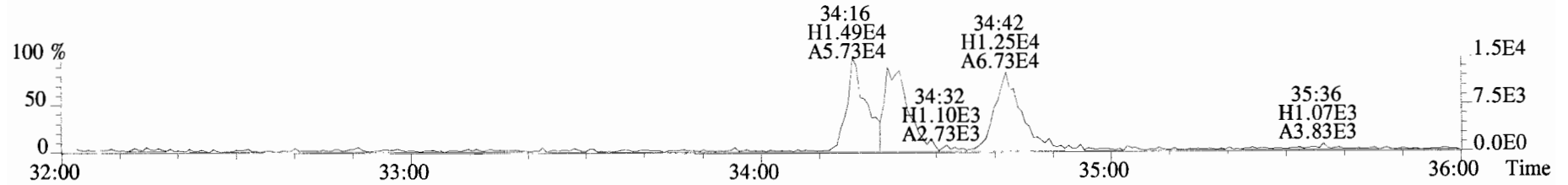
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



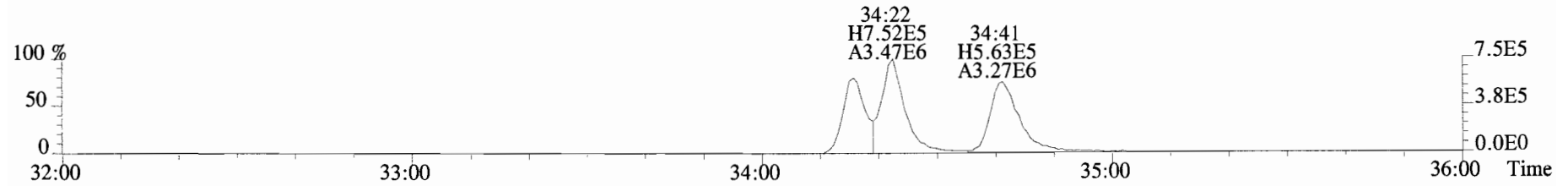
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



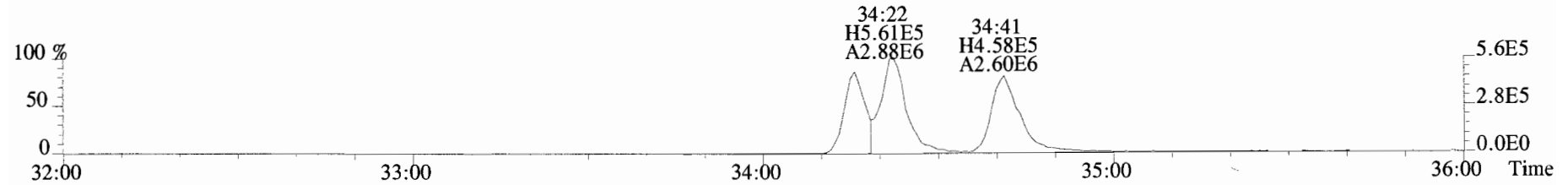
391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



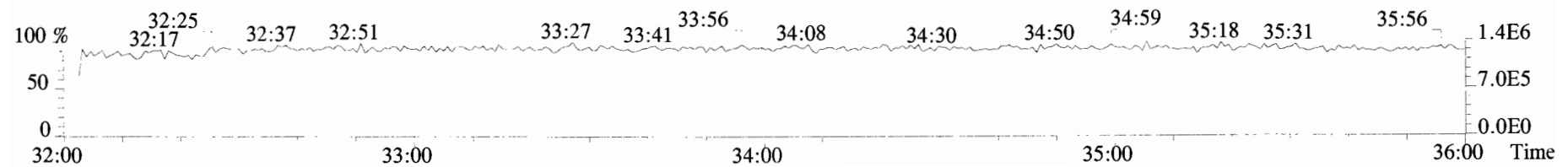
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



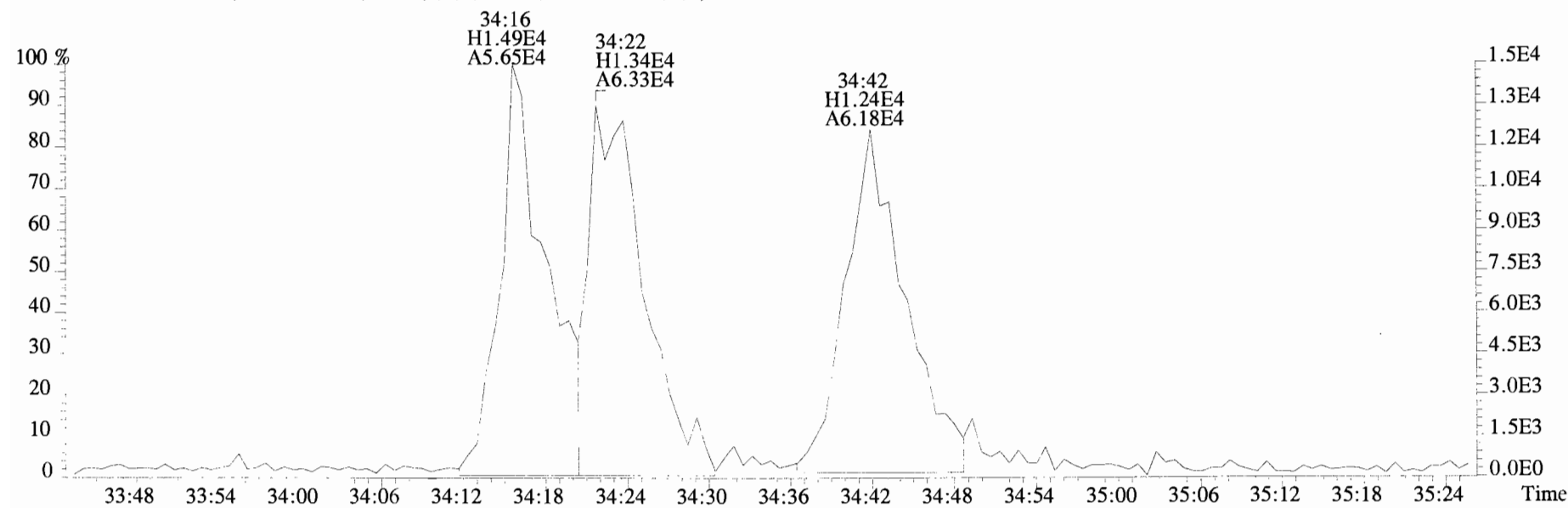
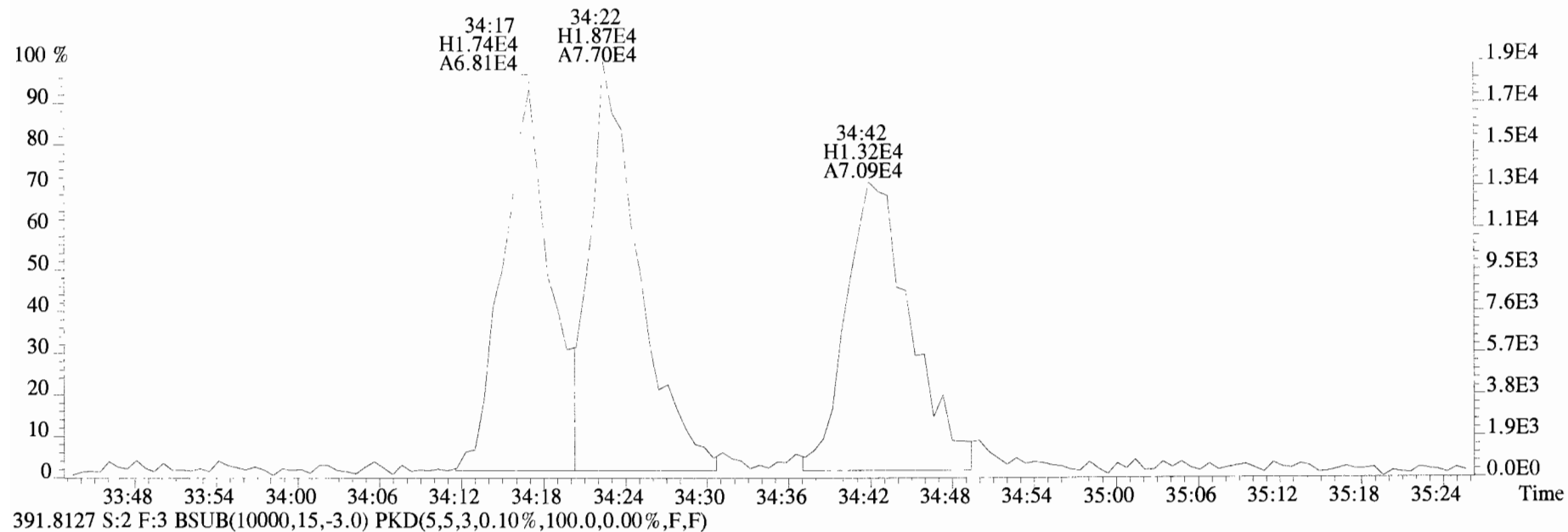
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



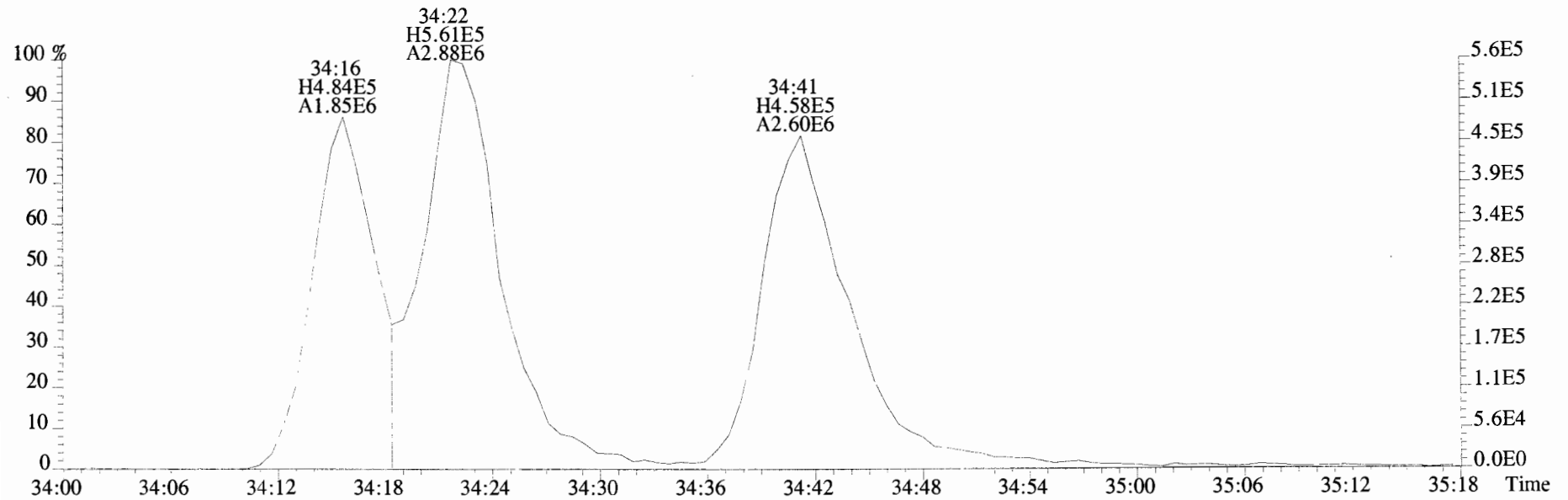
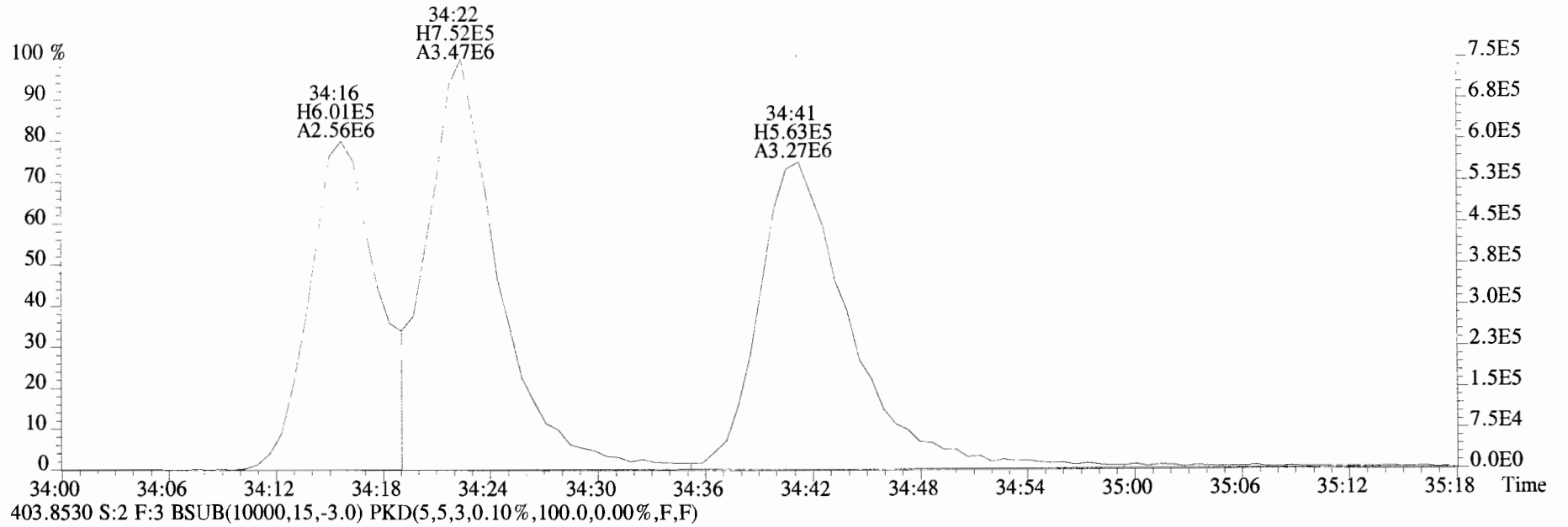
392.9760 S:2 F:3



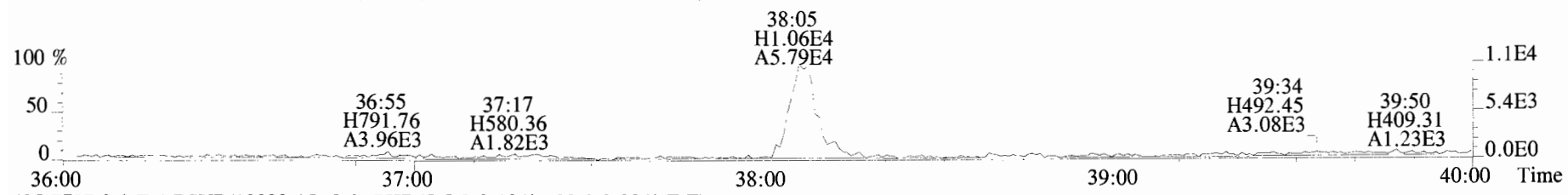
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



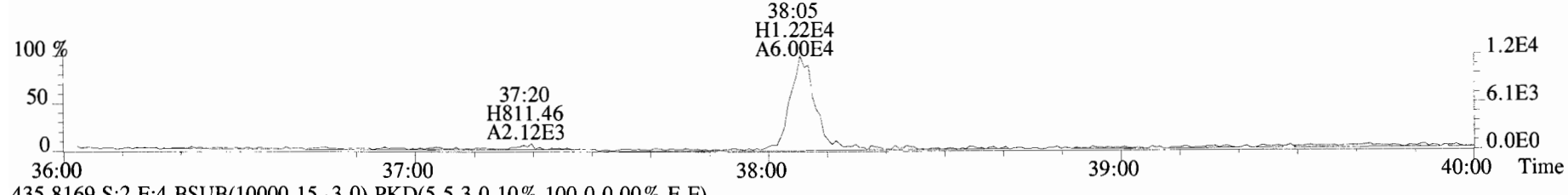
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



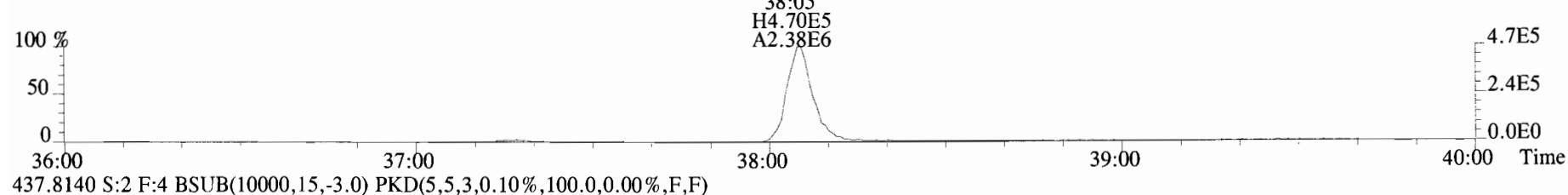
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
 423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



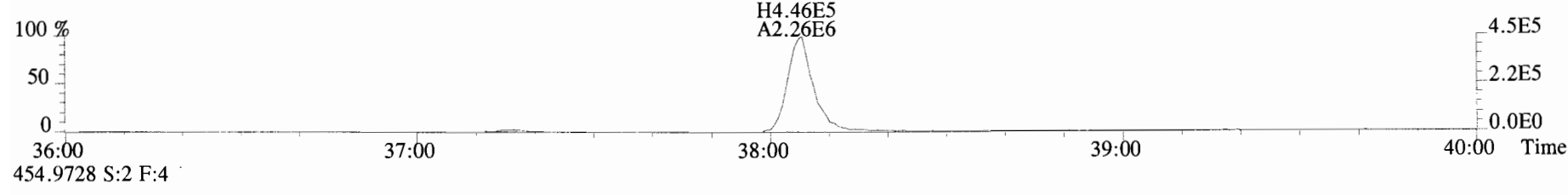
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



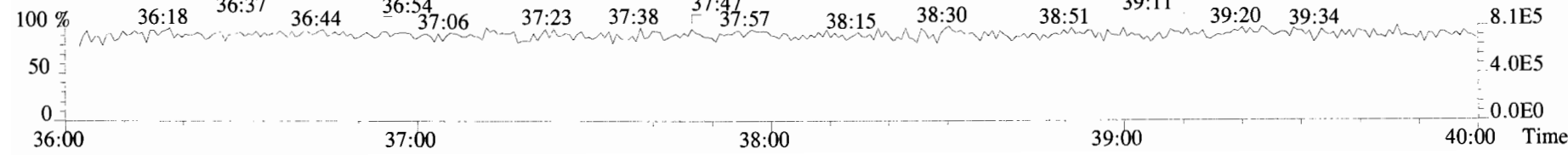
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



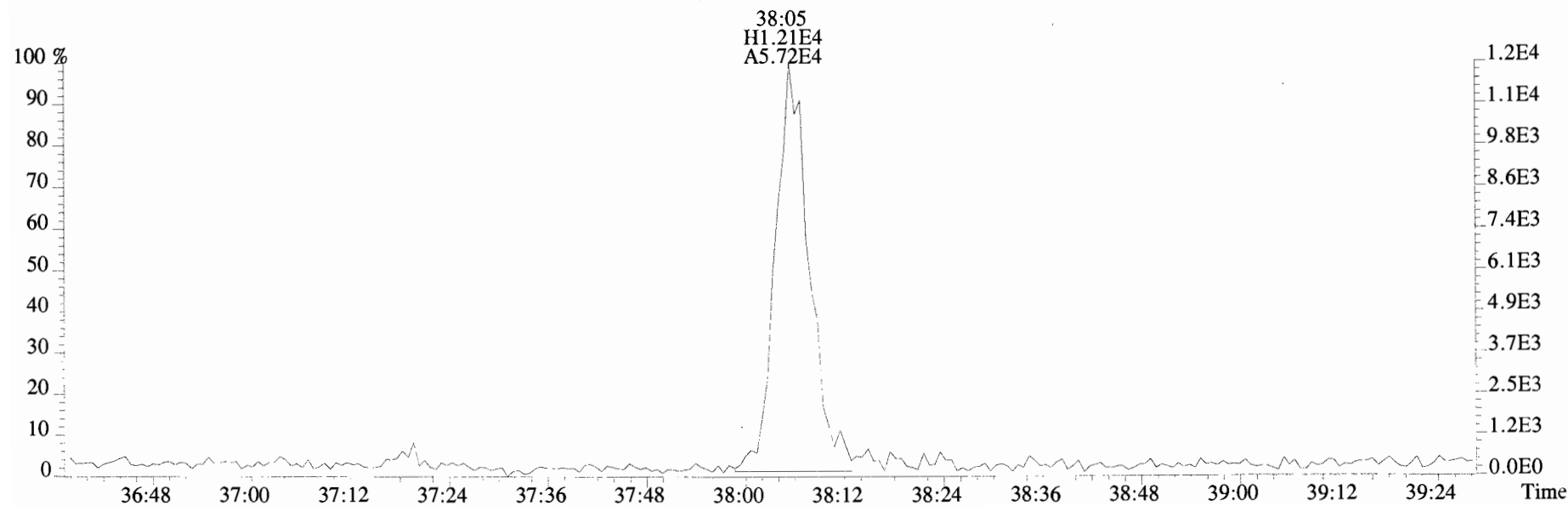
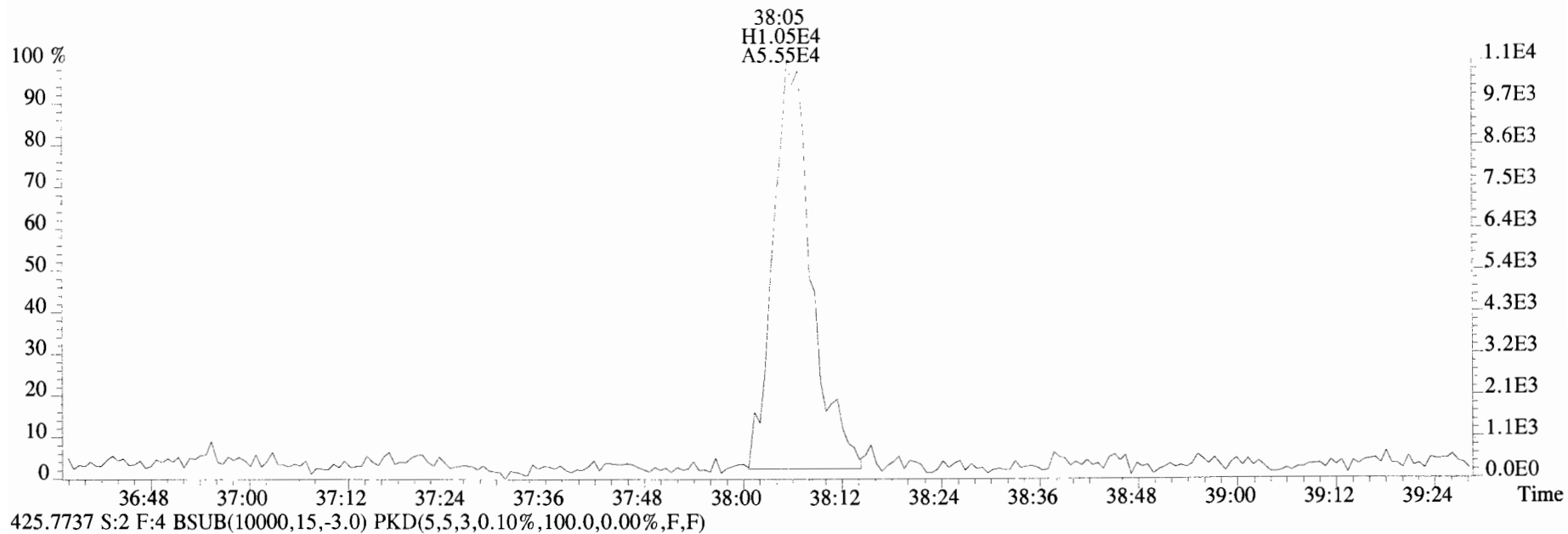
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



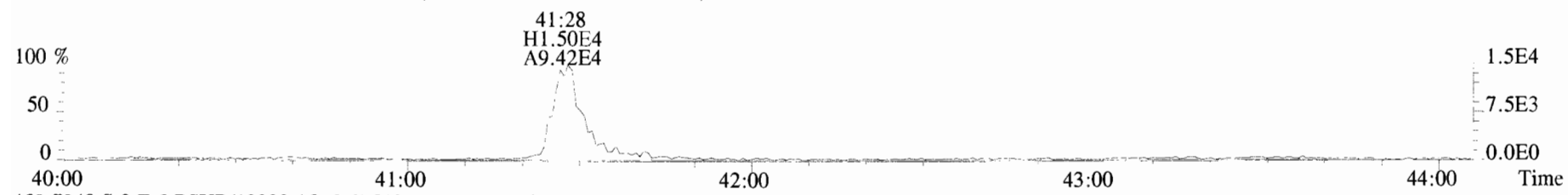
454.9728 S:2 F:4



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)



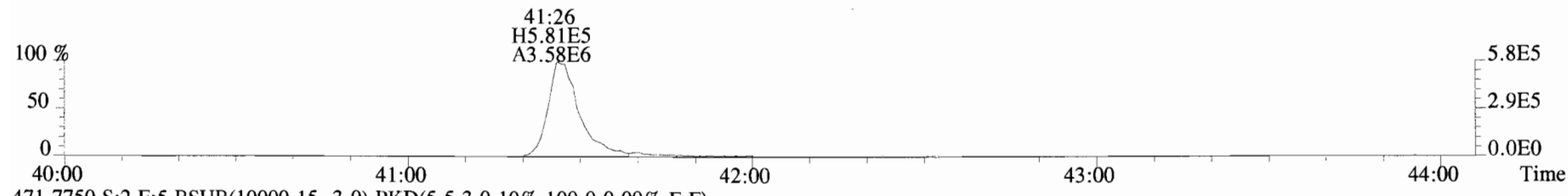
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



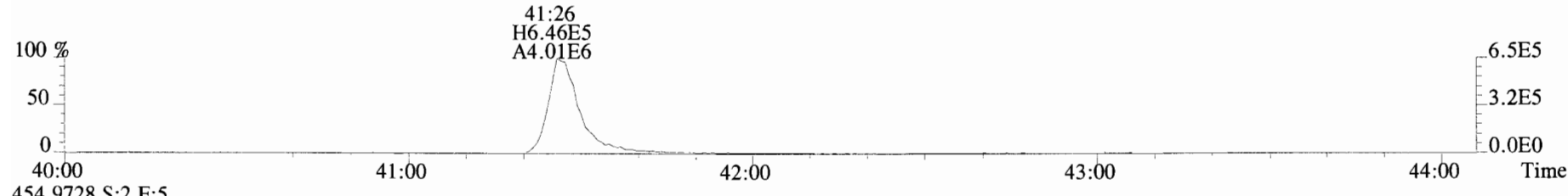
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



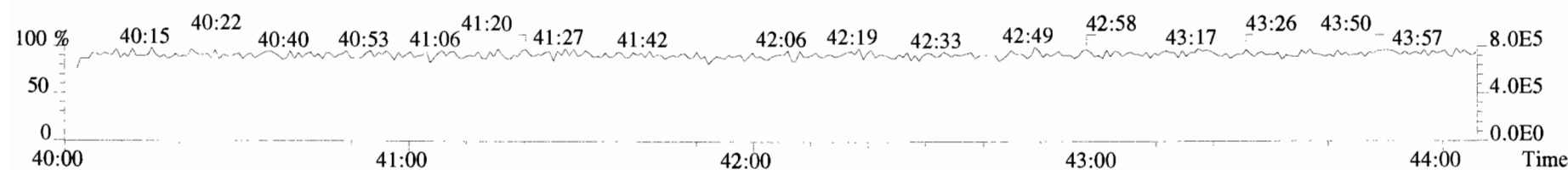
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



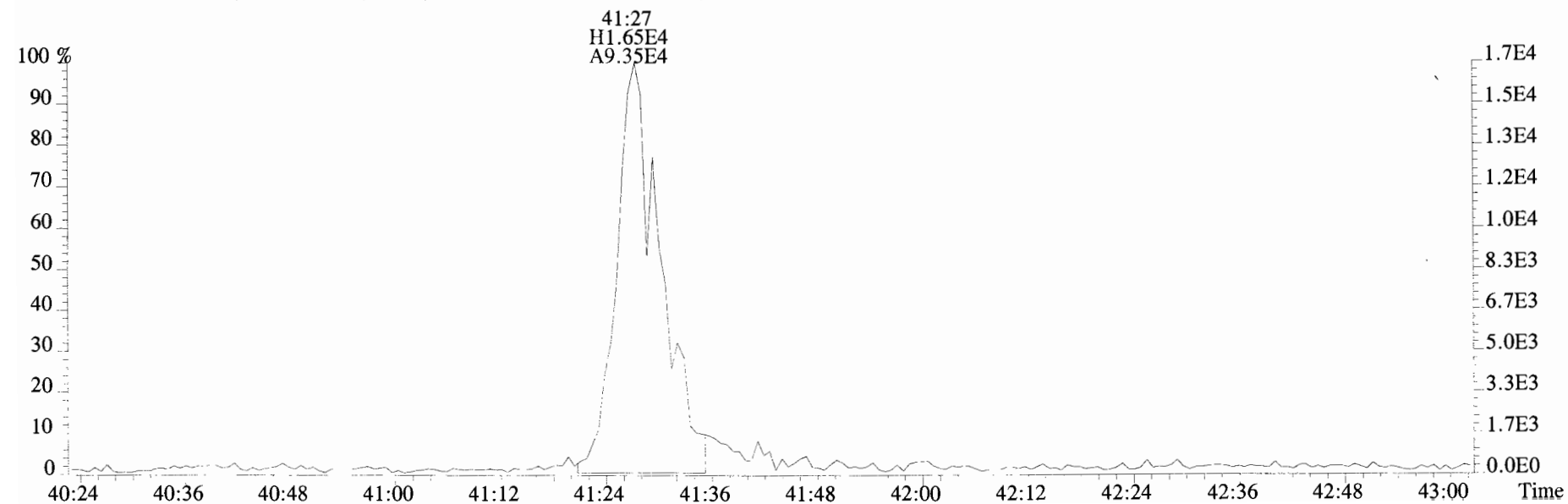
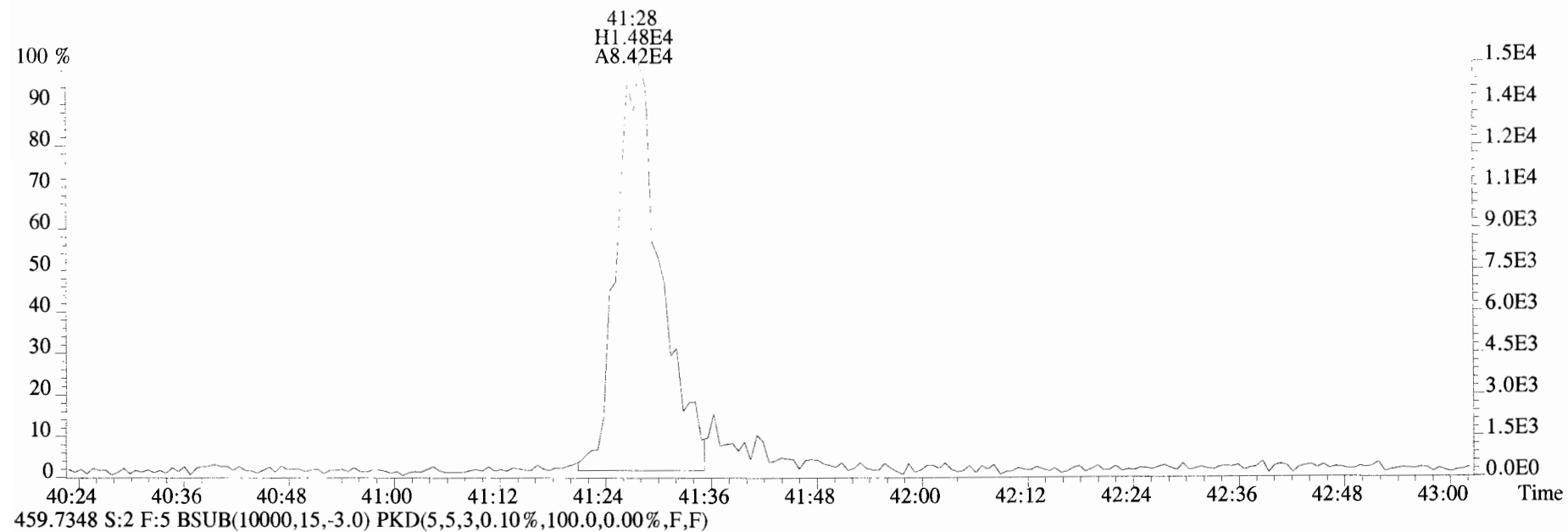
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



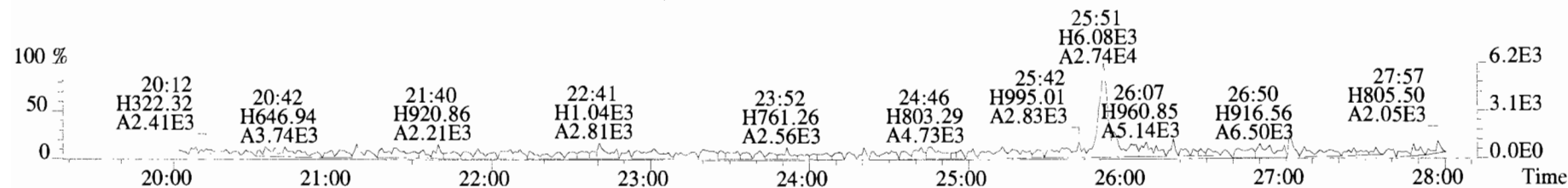
454.9728 S:2 F:5



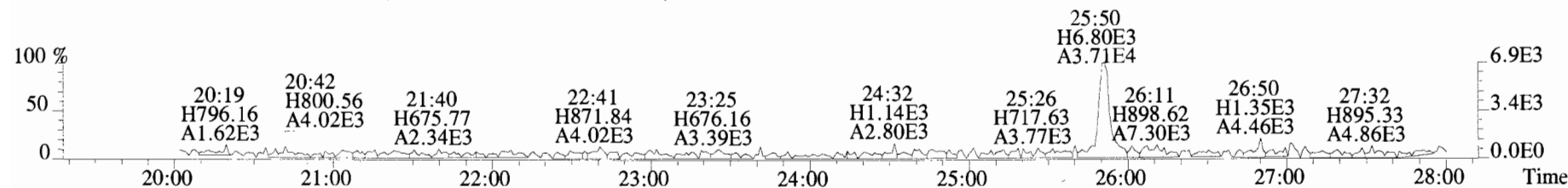
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



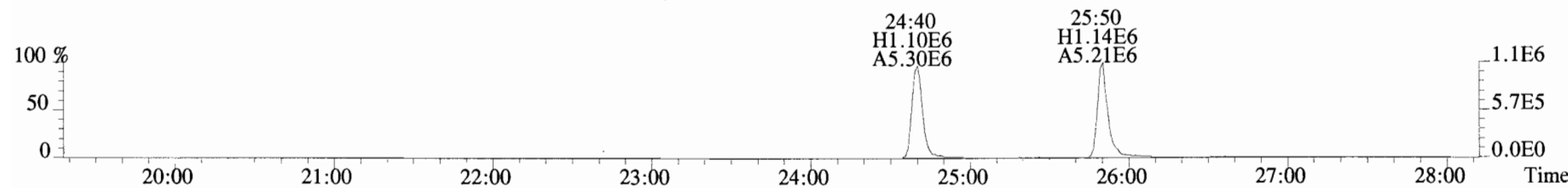
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
 303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



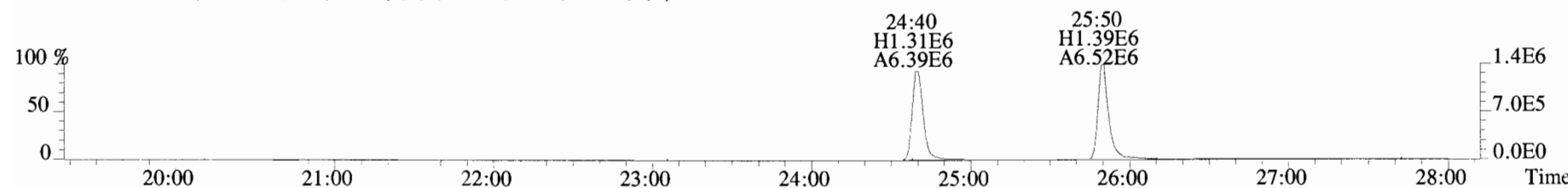
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



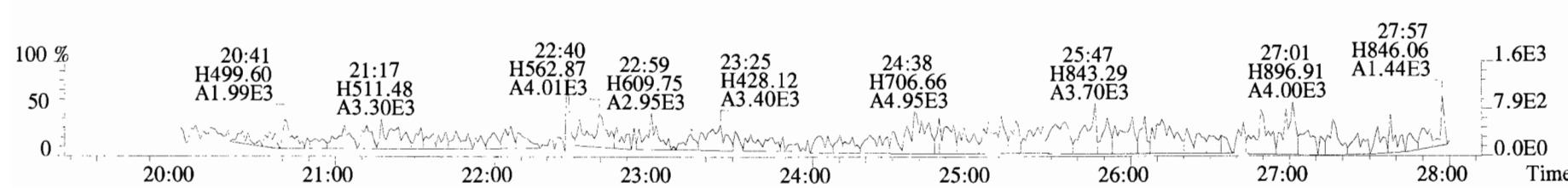
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



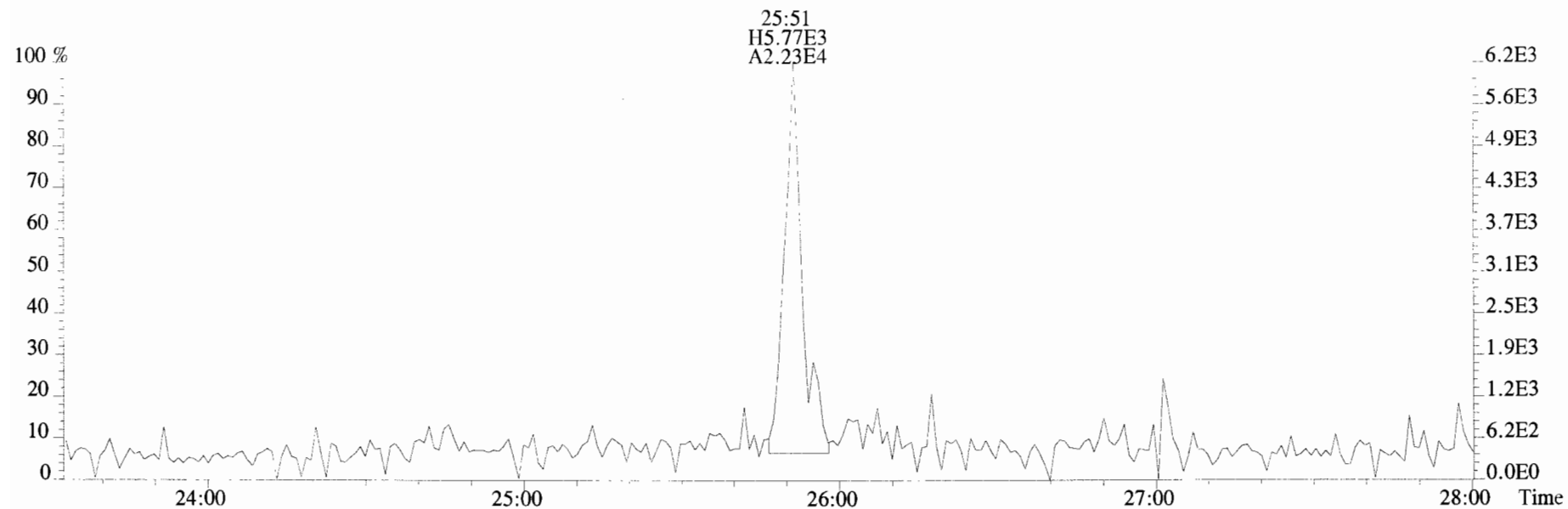
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



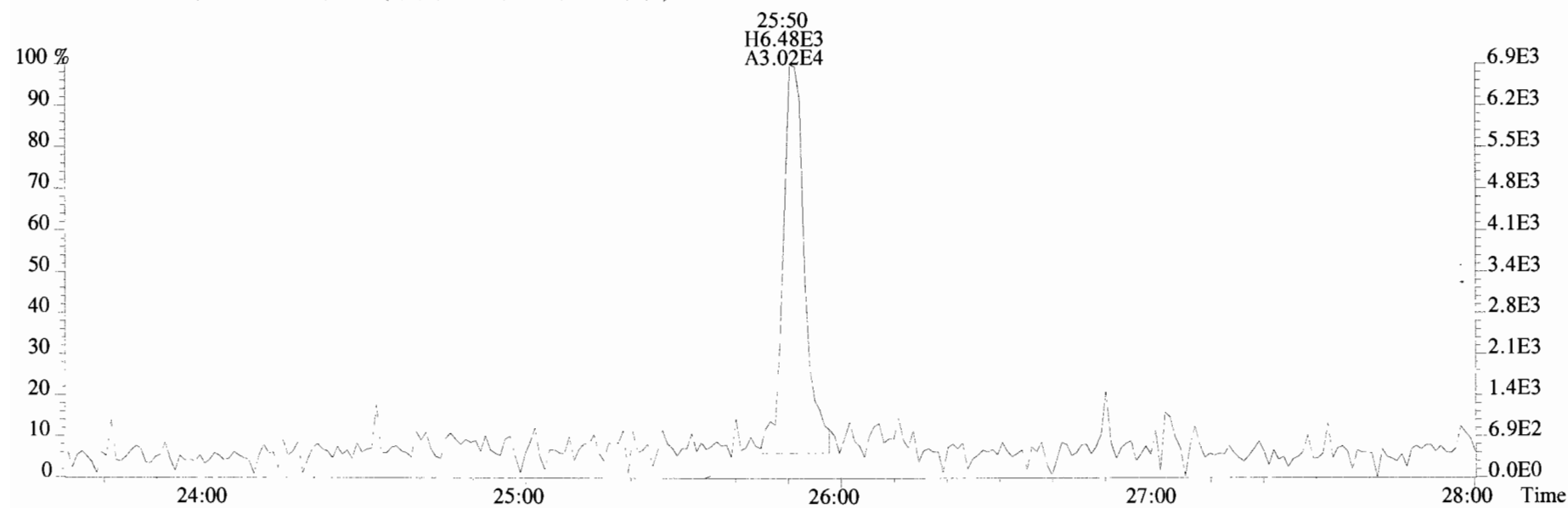
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



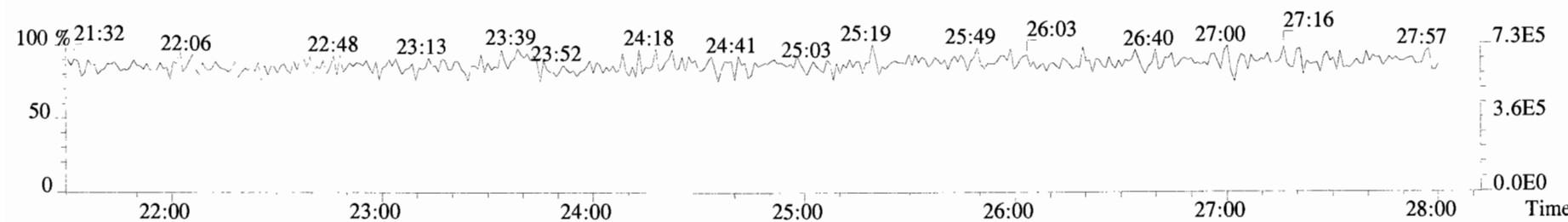
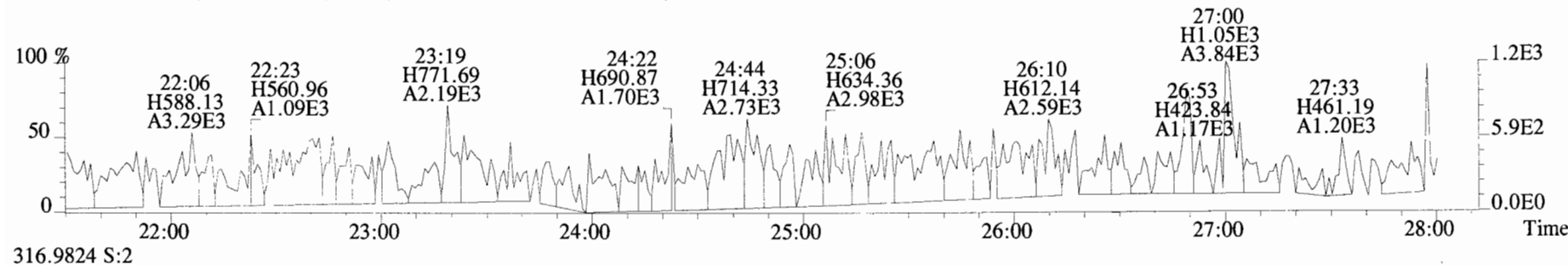
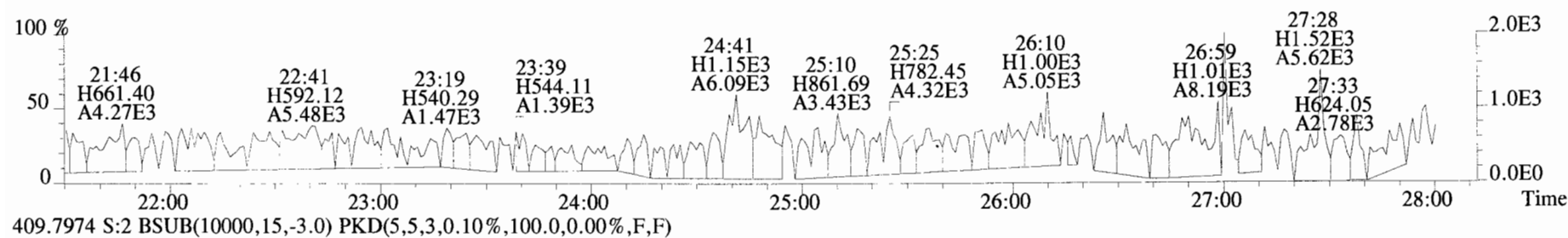
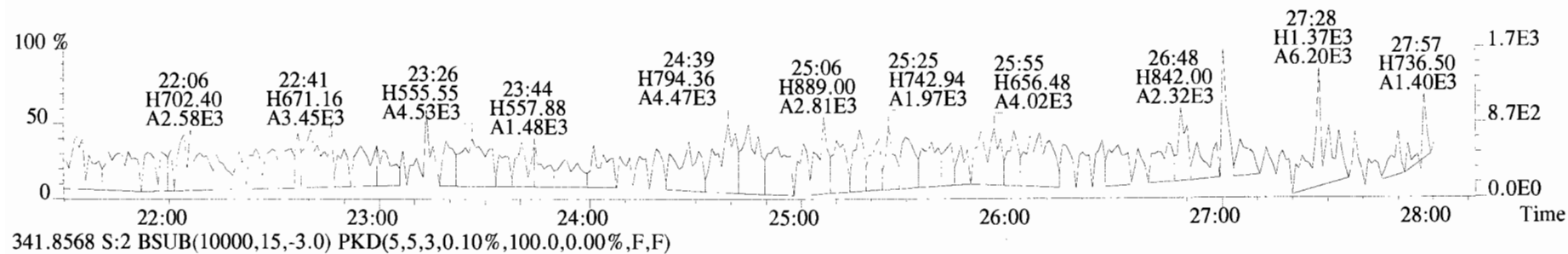
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



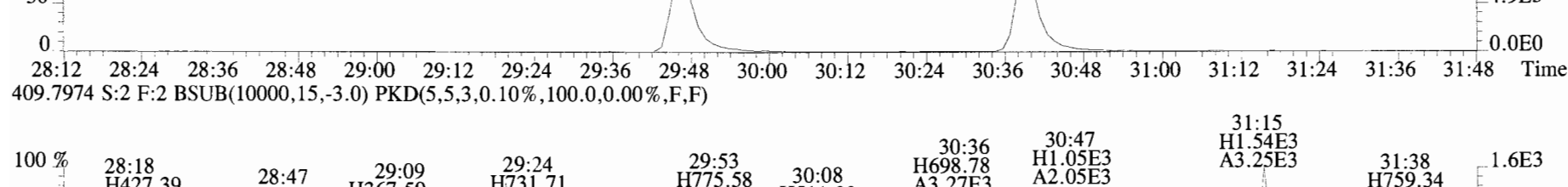
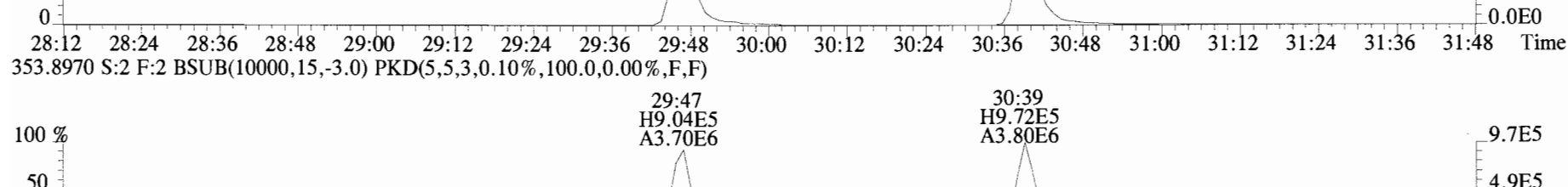
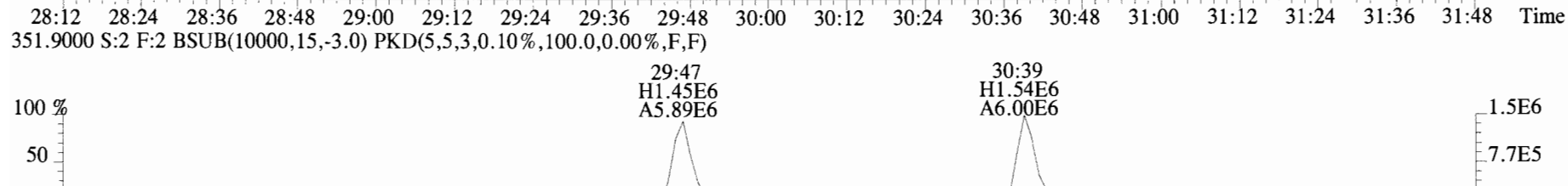
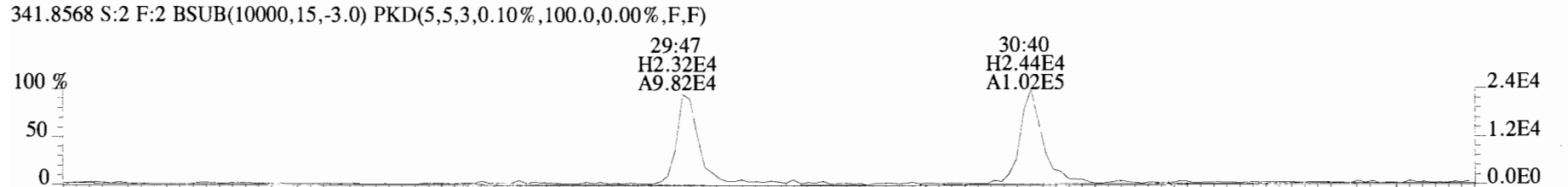
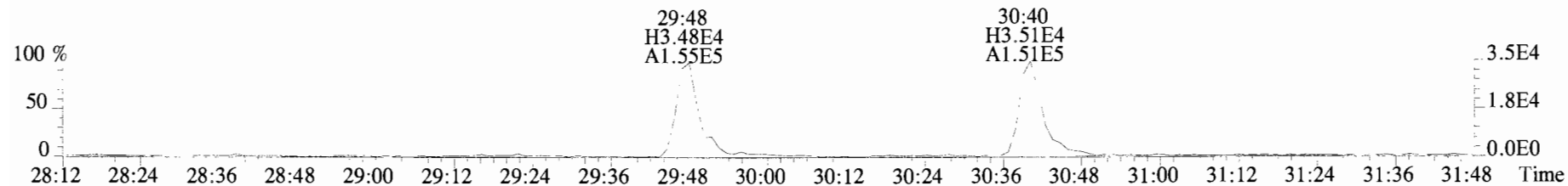
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



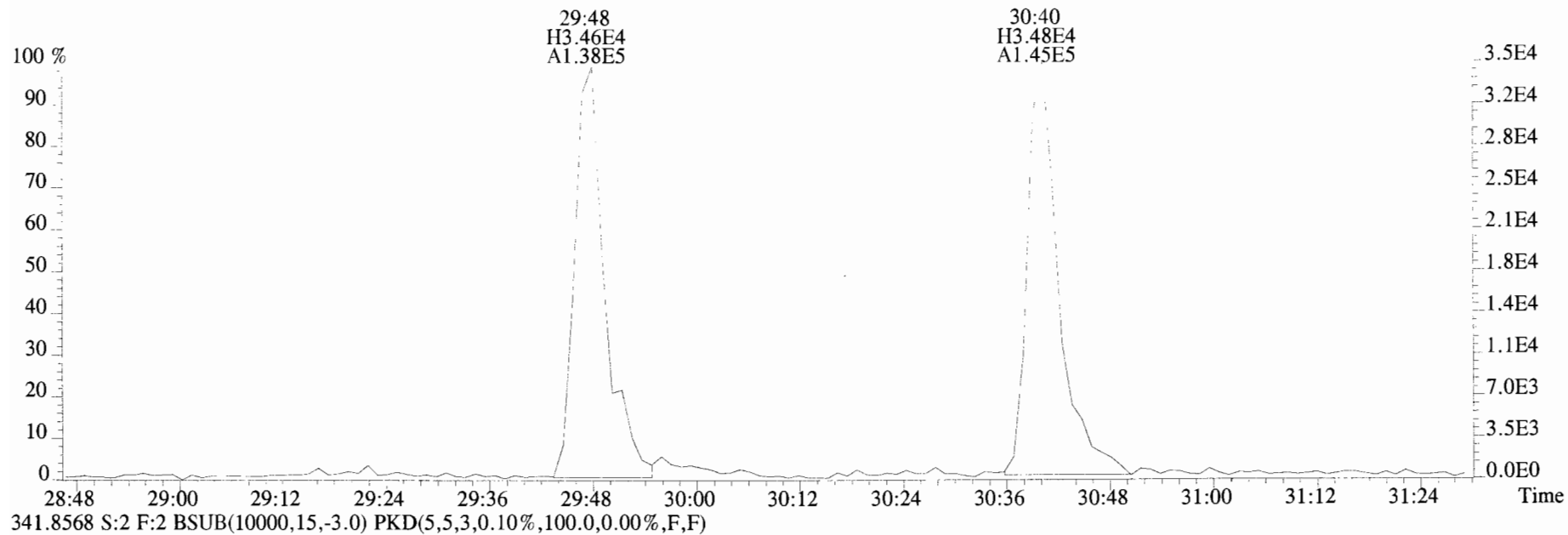
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
 339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



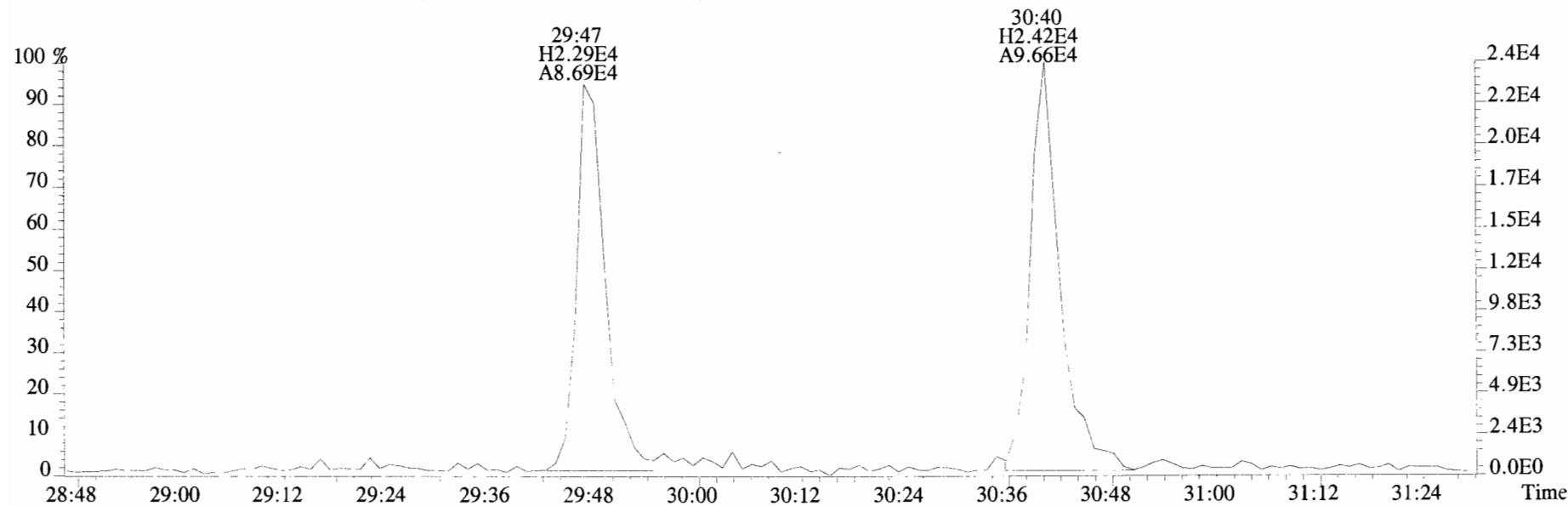
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



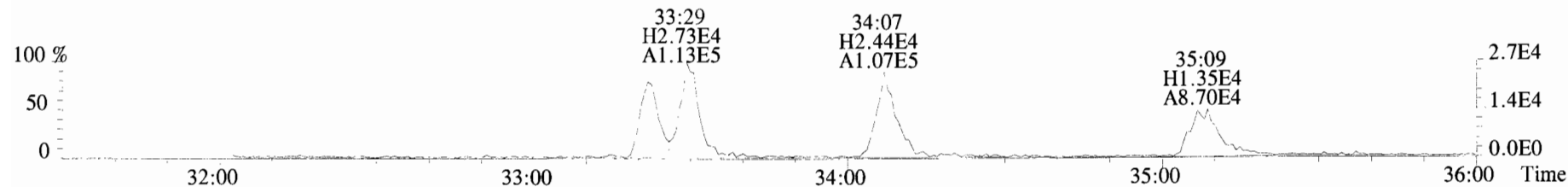
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



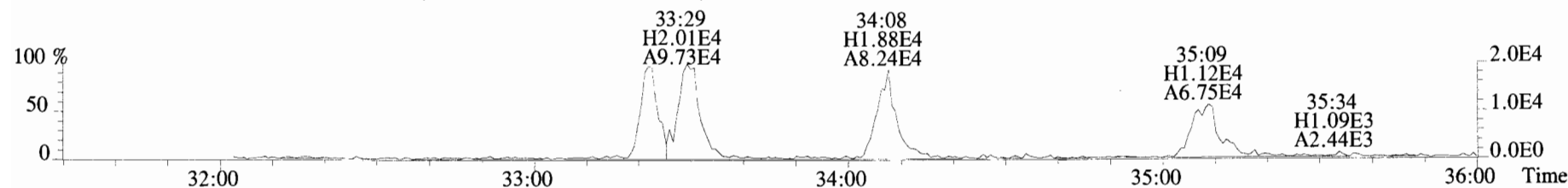
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



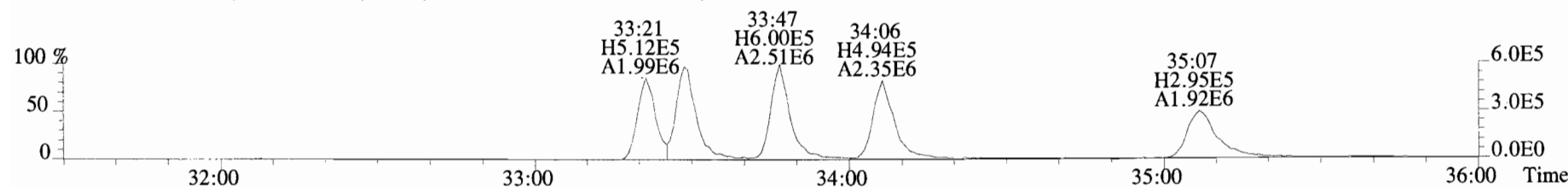
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



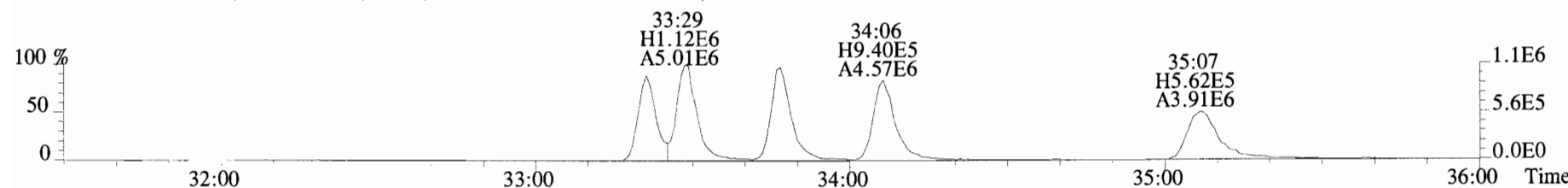
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



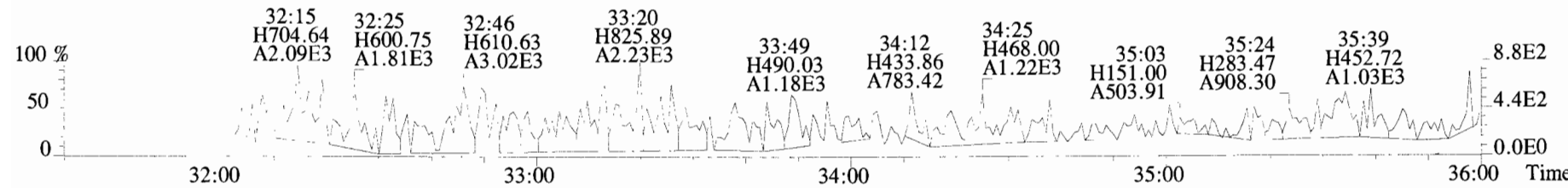
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



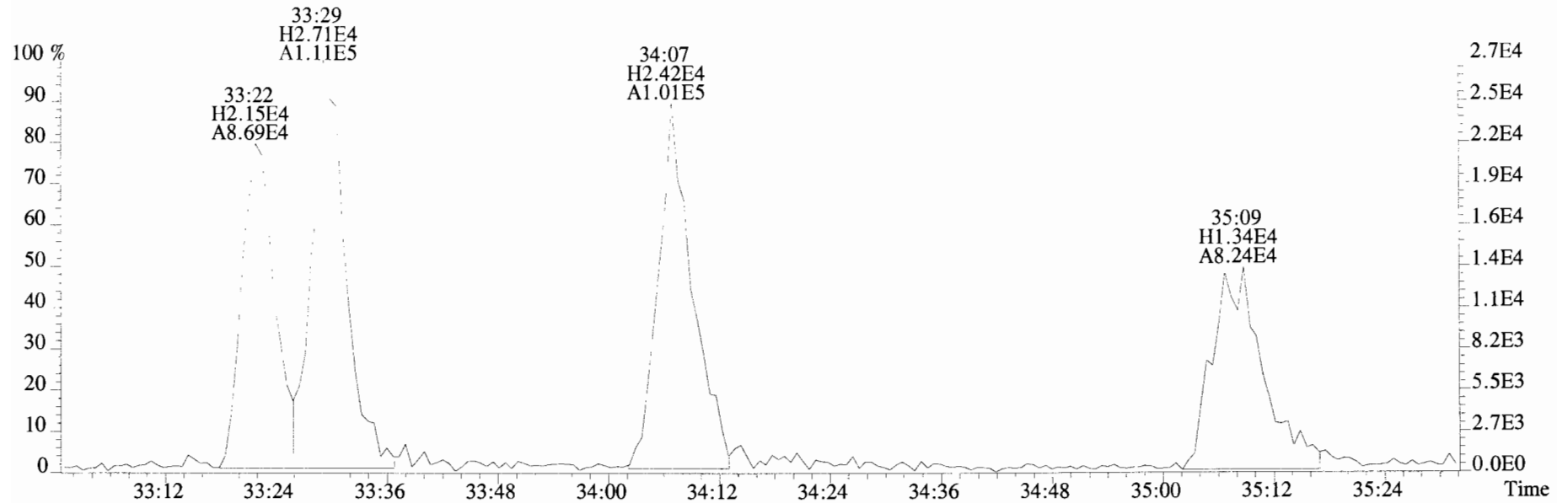
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



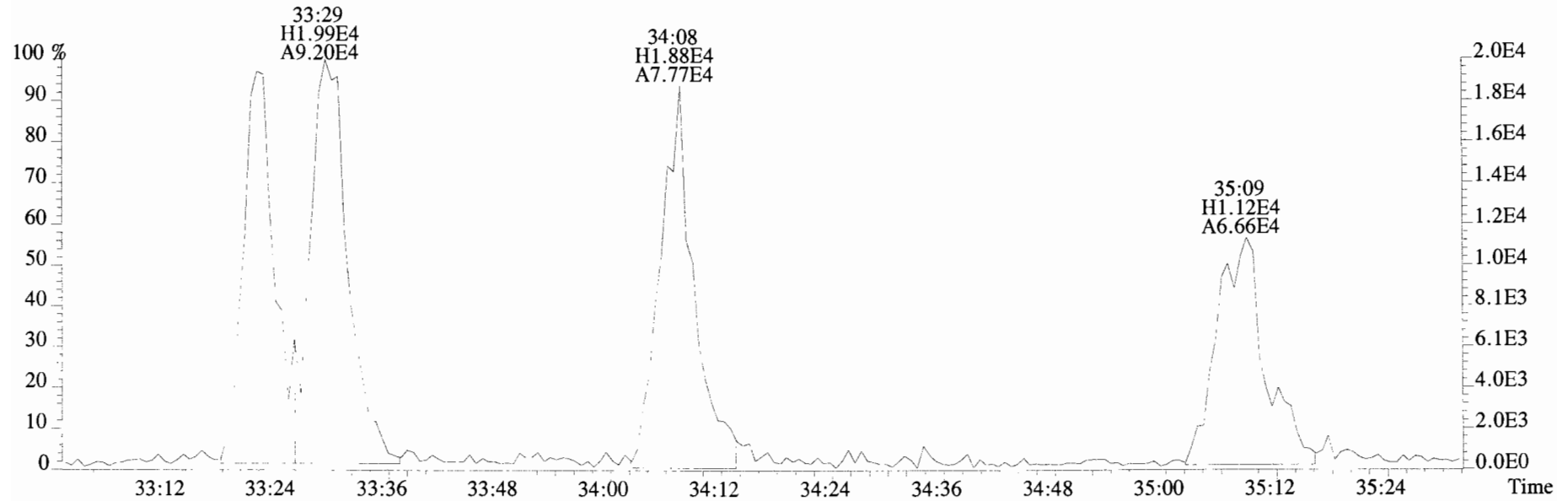
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



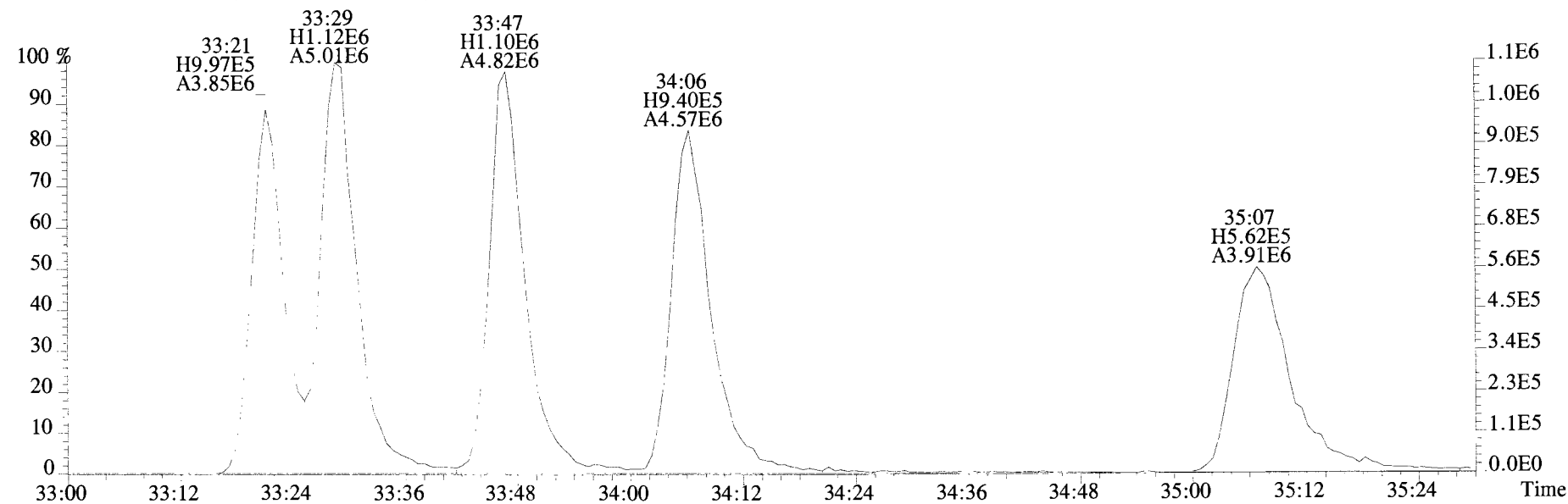
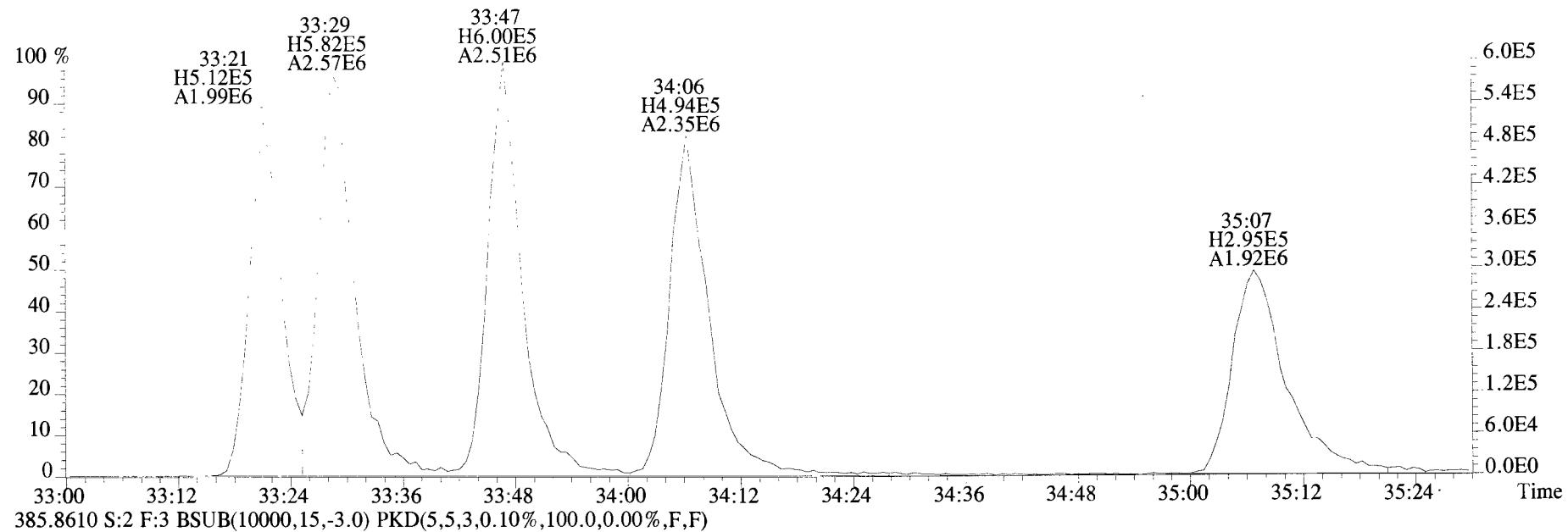
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



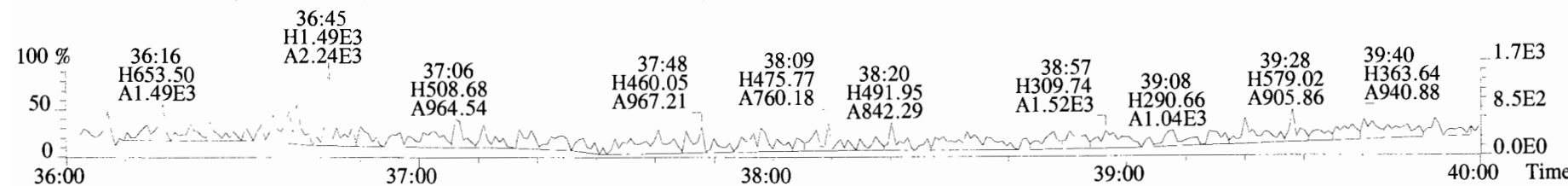
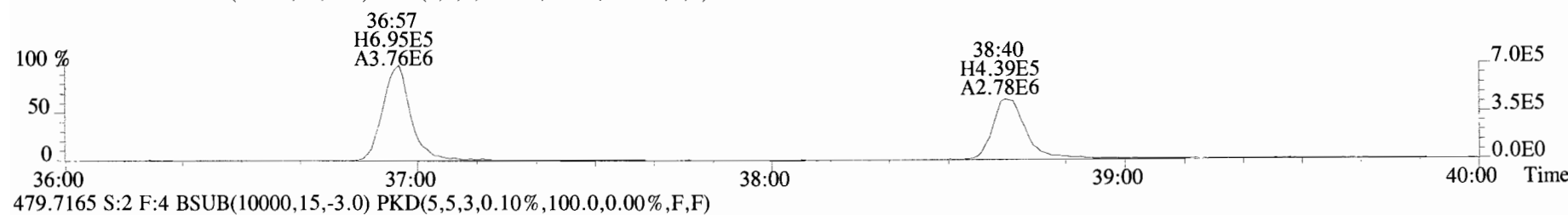
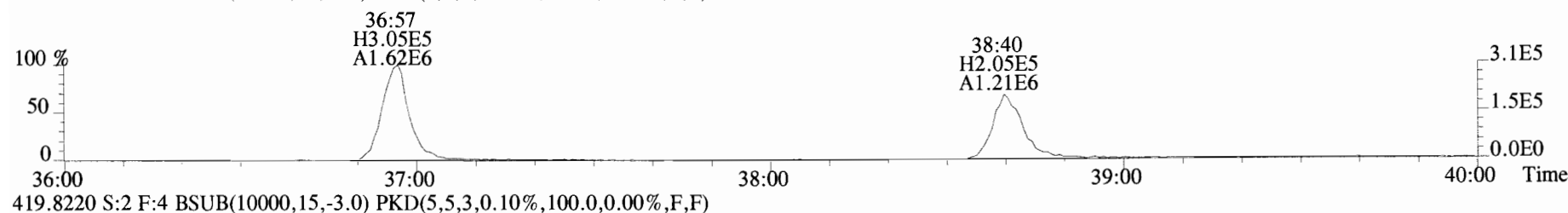
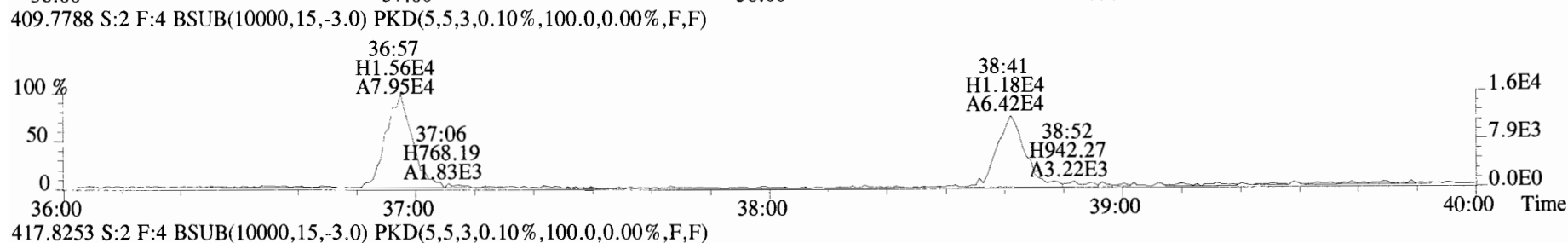
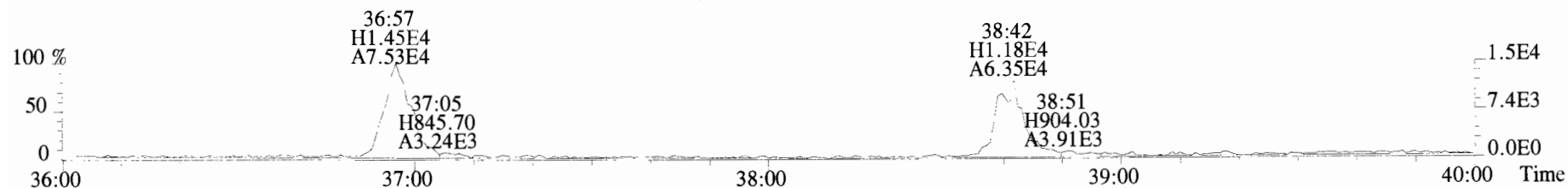
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



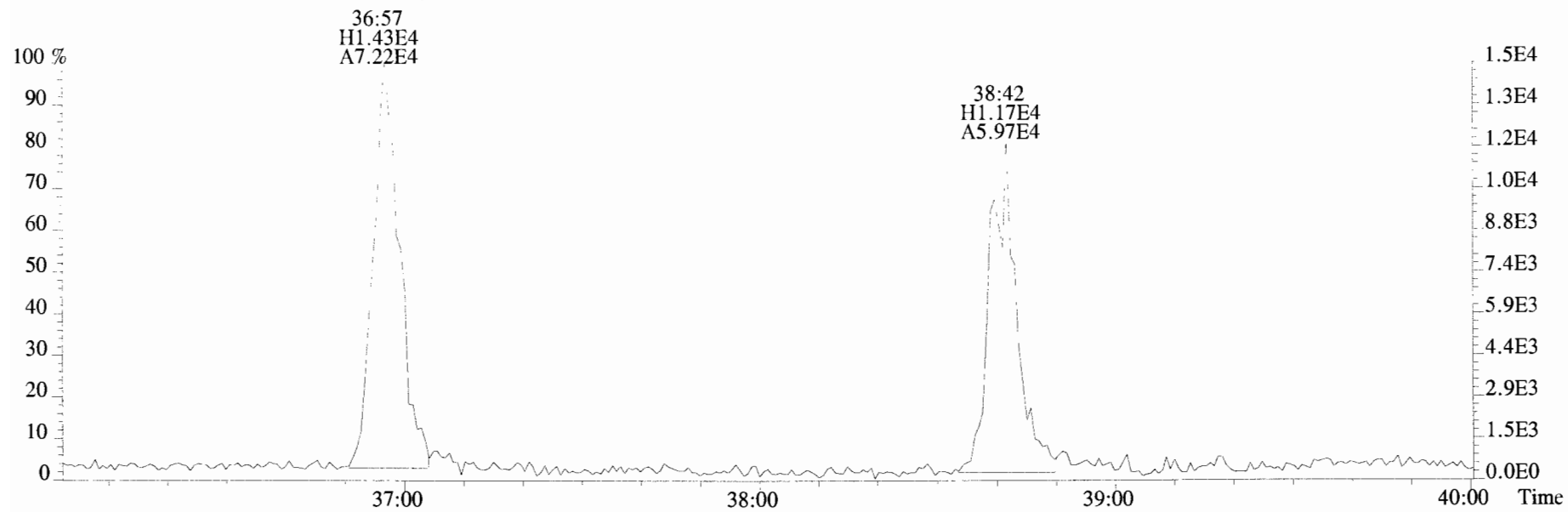
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



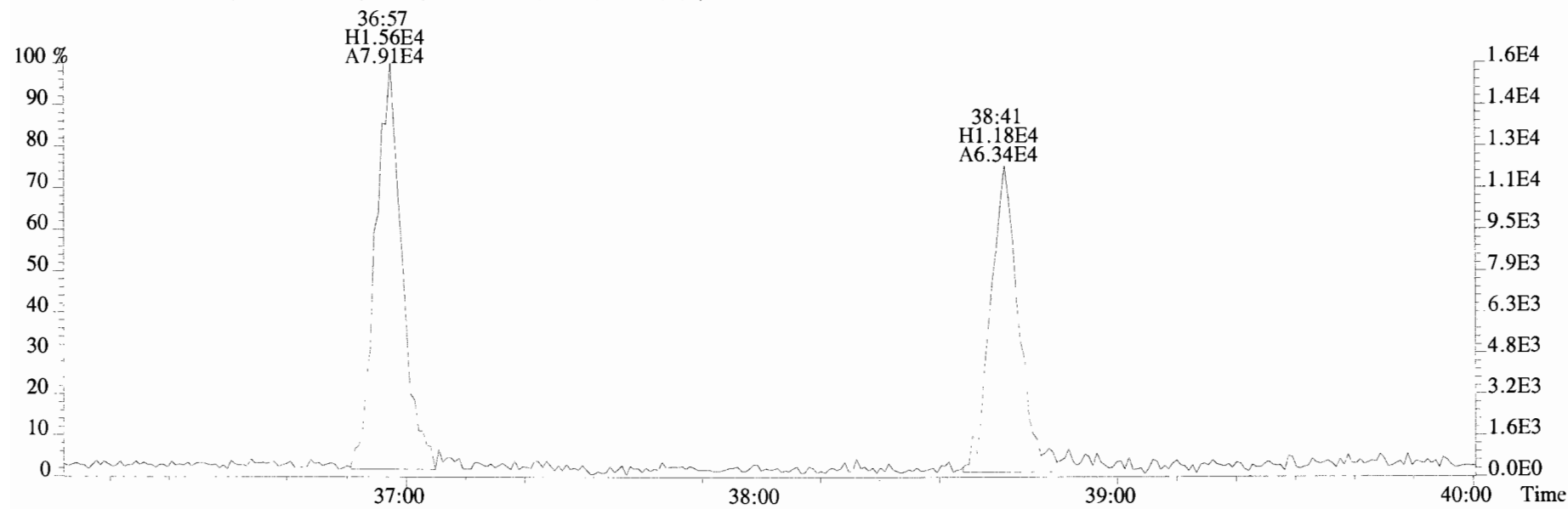
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text: Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
 407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



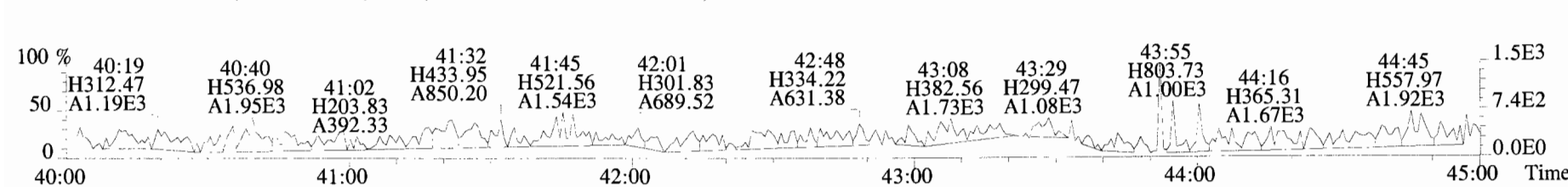
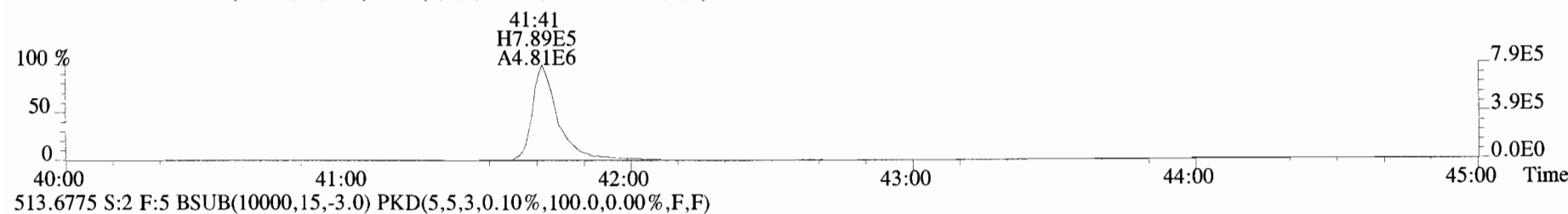
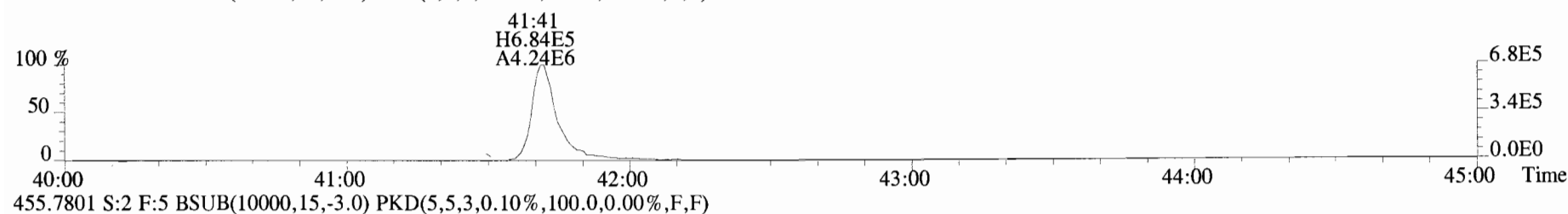
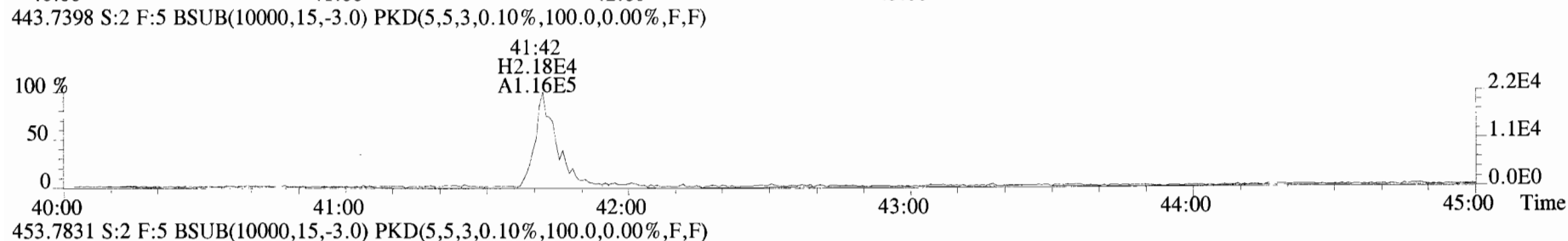
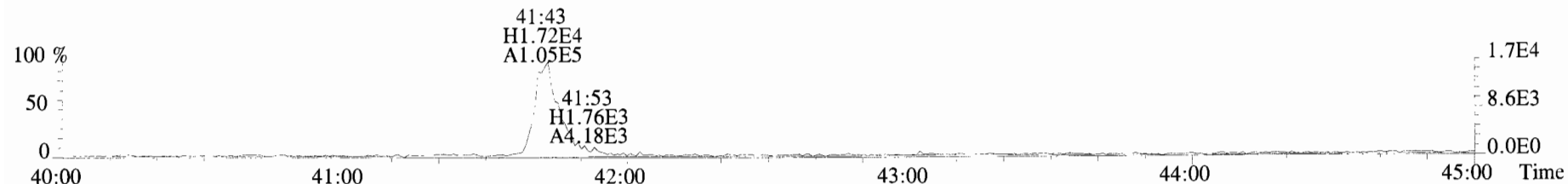
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



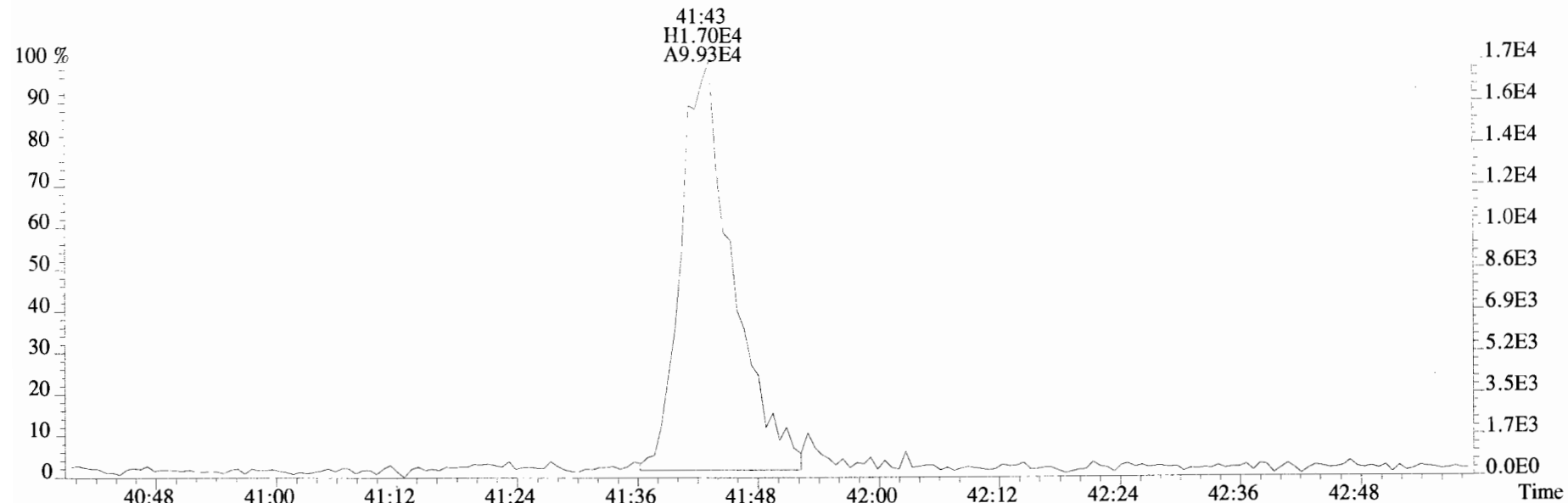
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



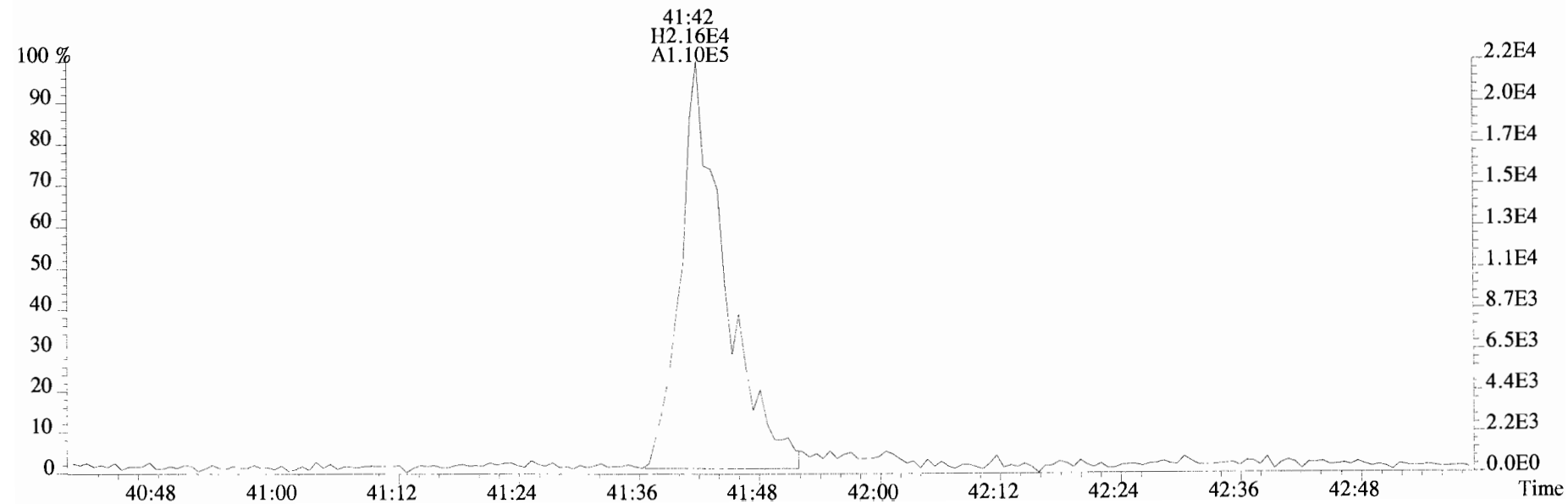
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



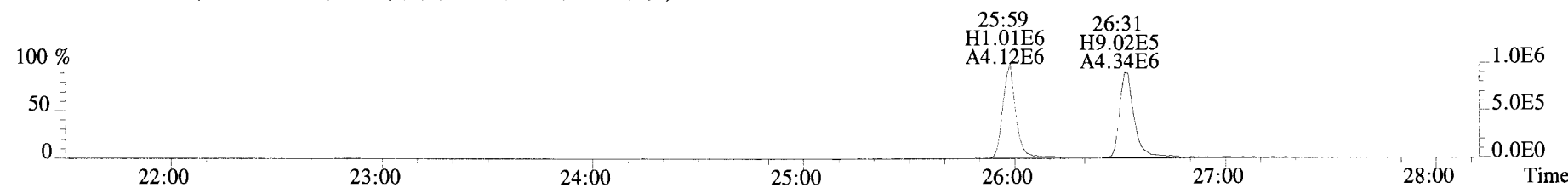
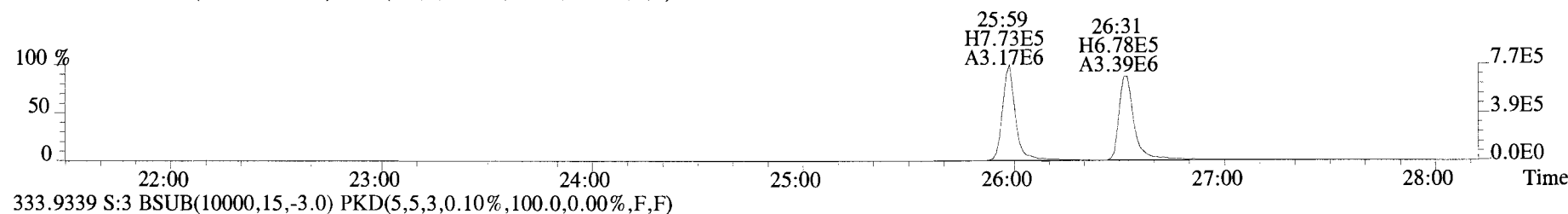
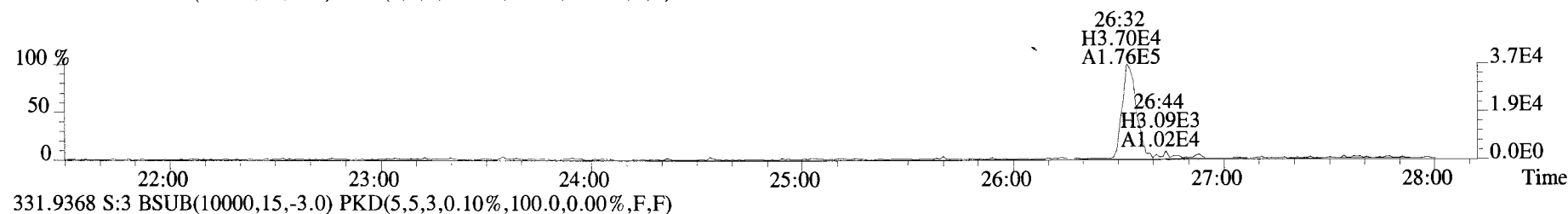
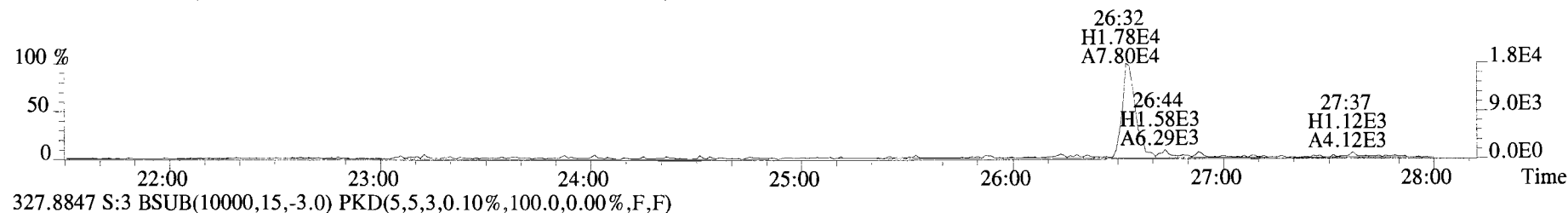
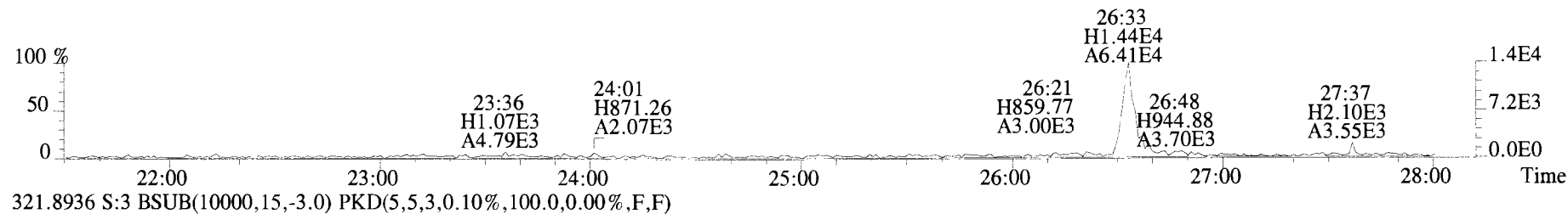
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



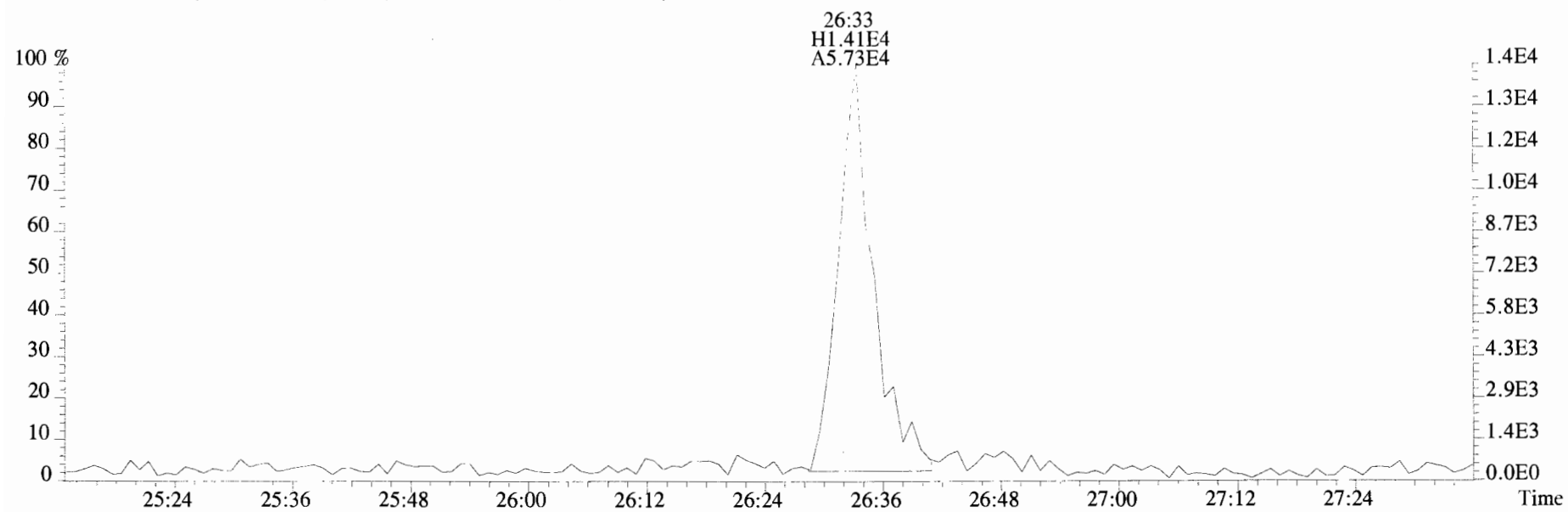
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



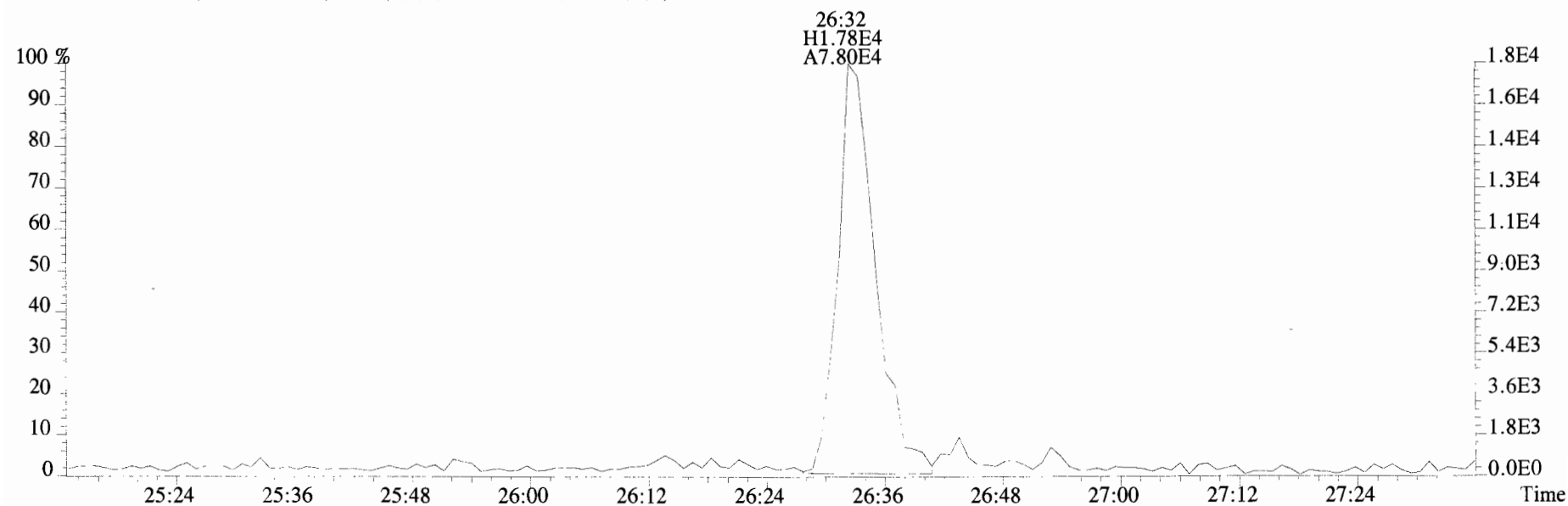
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



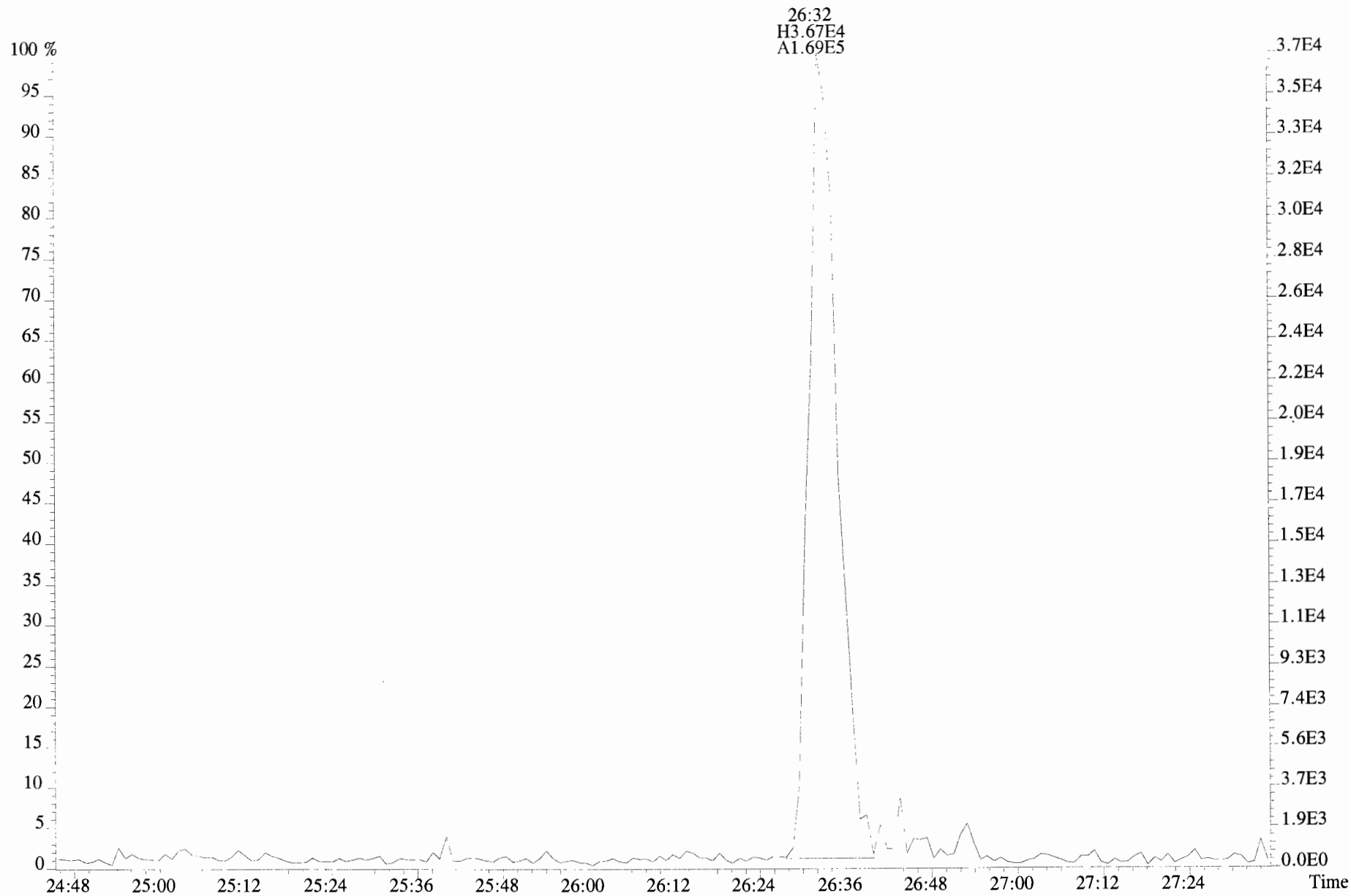
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



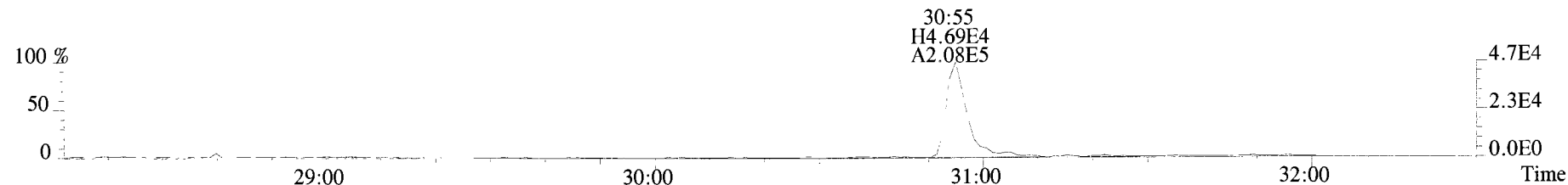
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



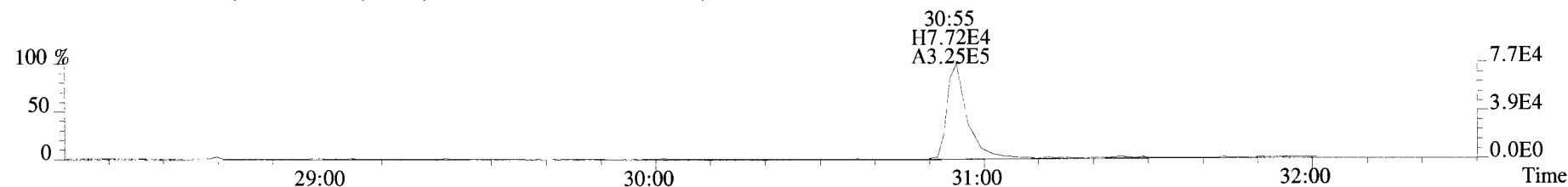
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
327.8847 S:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



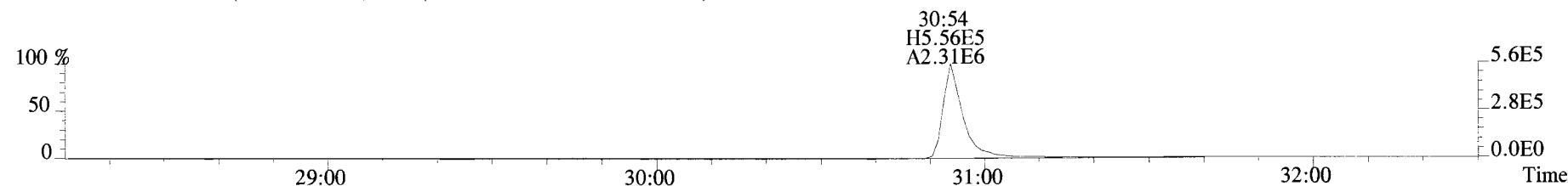
File:191009D1 #1-211 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
353.8576 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



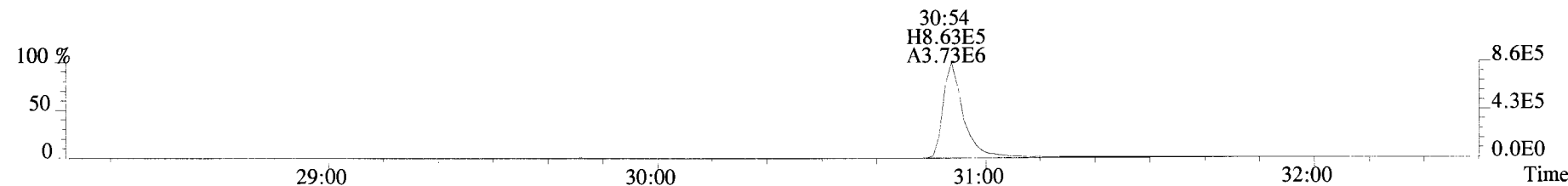
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



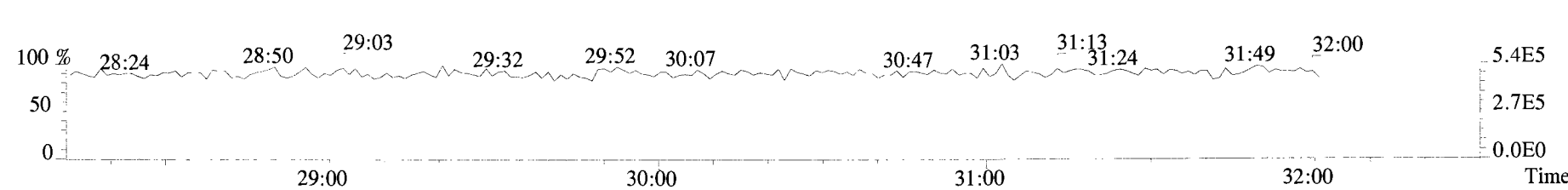
365.8978 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



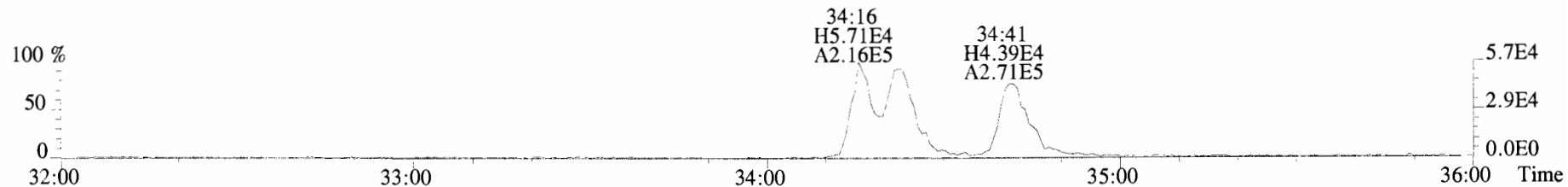
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



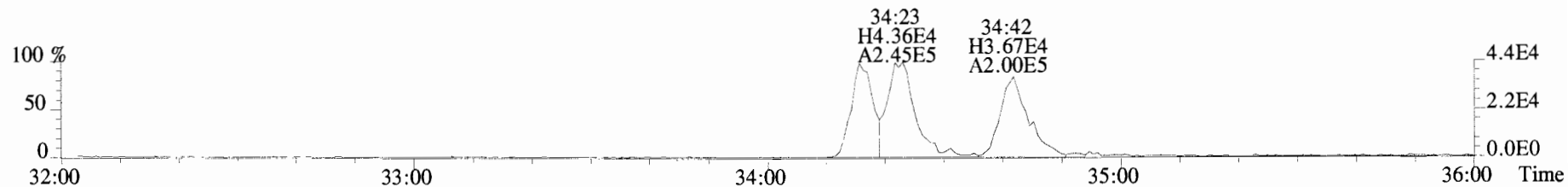
366.9792 S:3 F:2



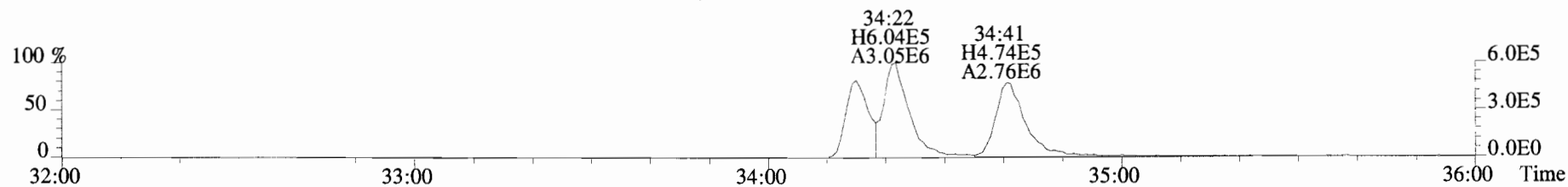
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



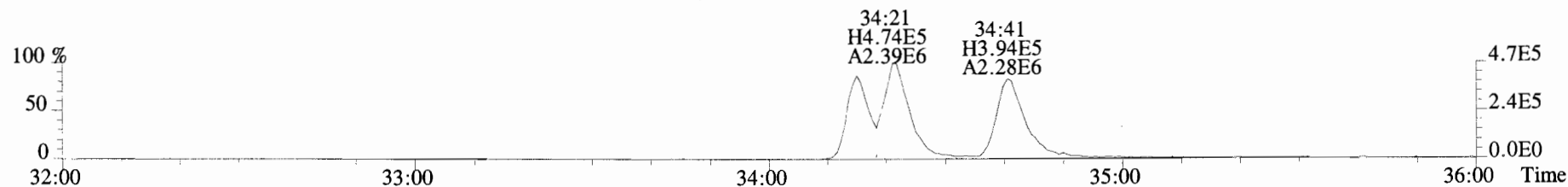
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



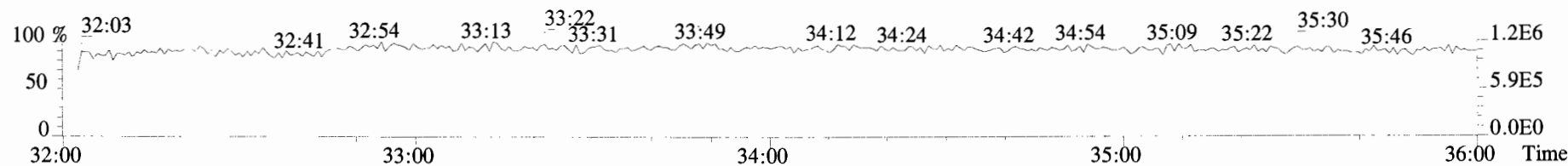
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



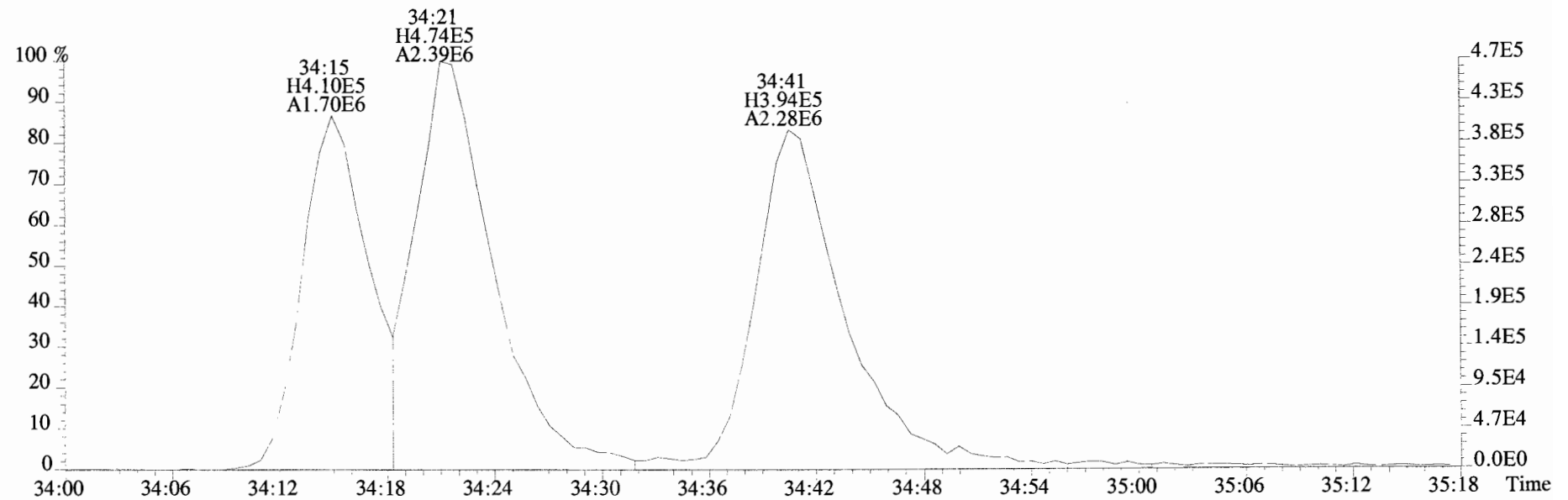
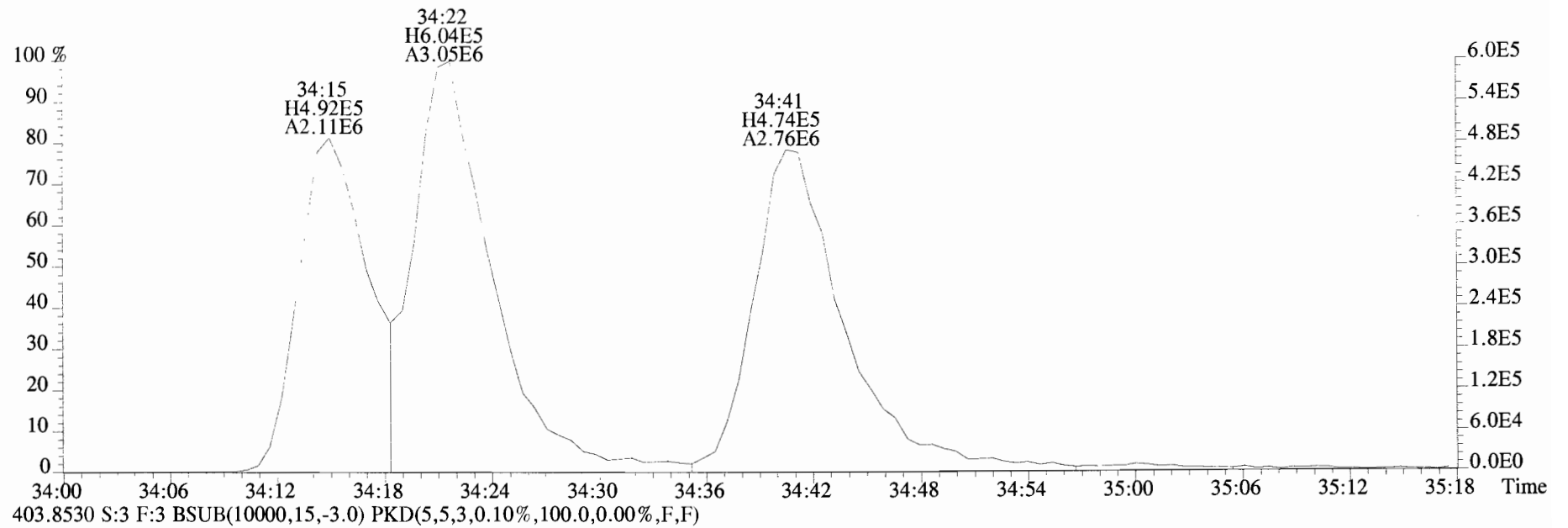
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



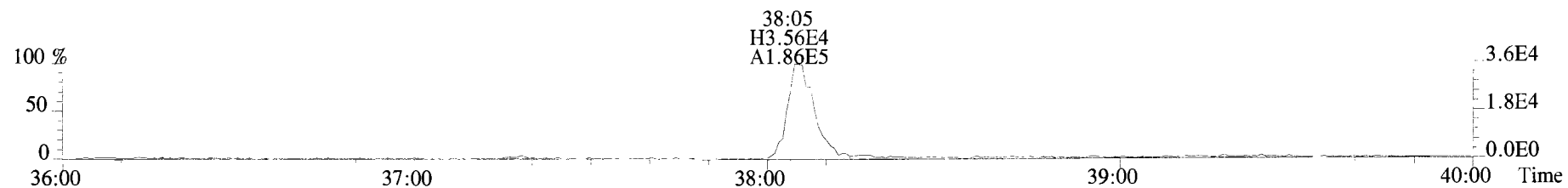
392.9760 S:3 F:3



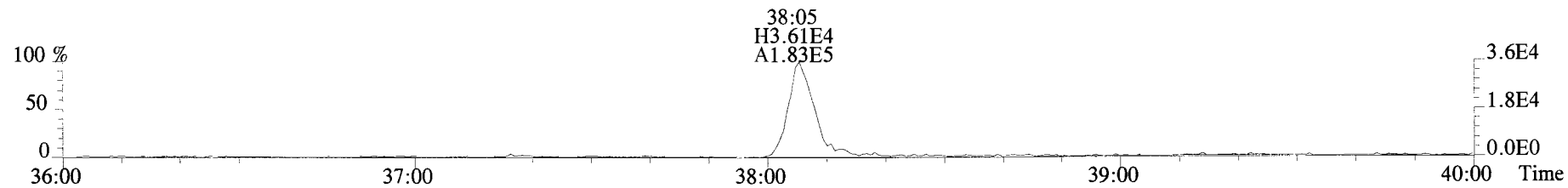
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text: Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



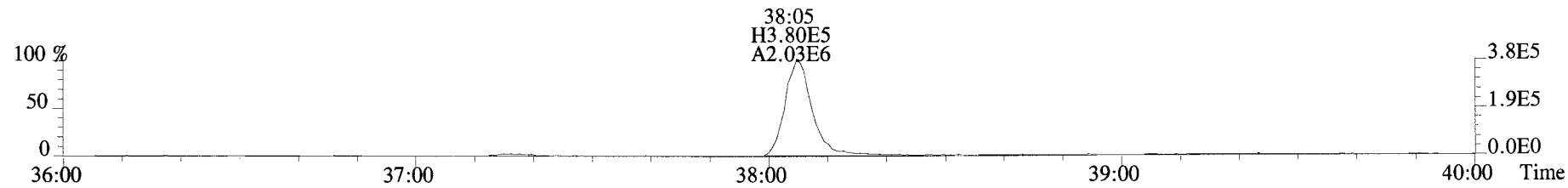
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



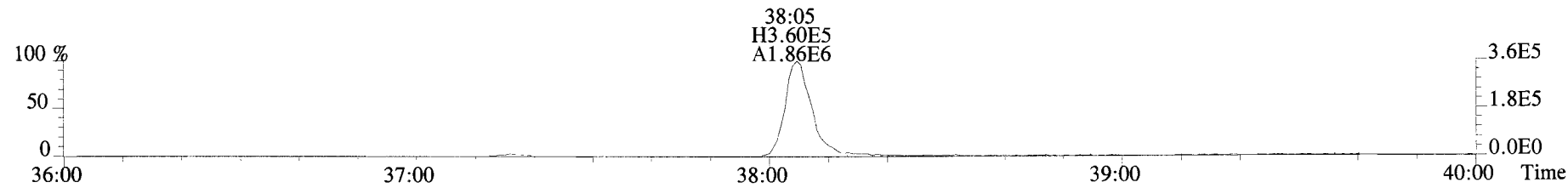
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



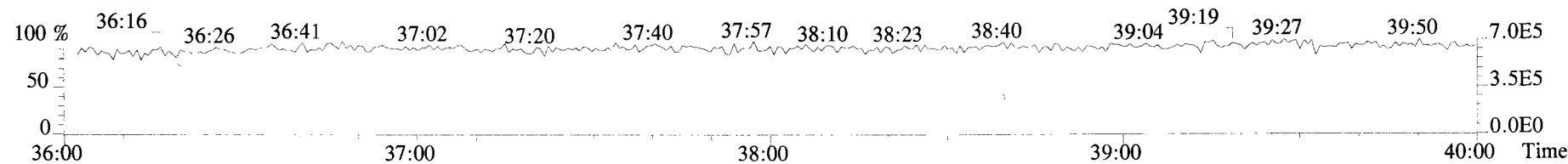
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



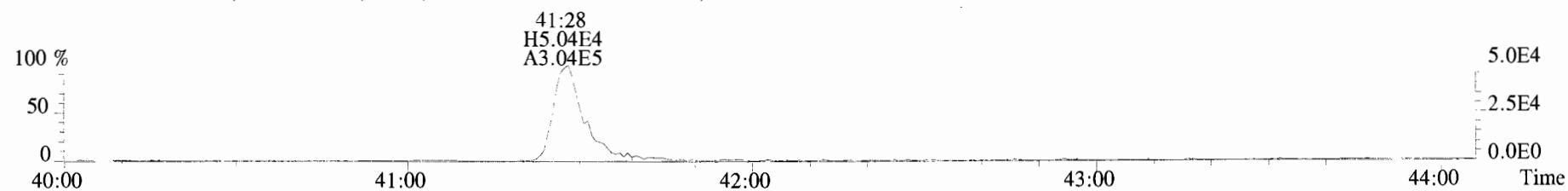
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



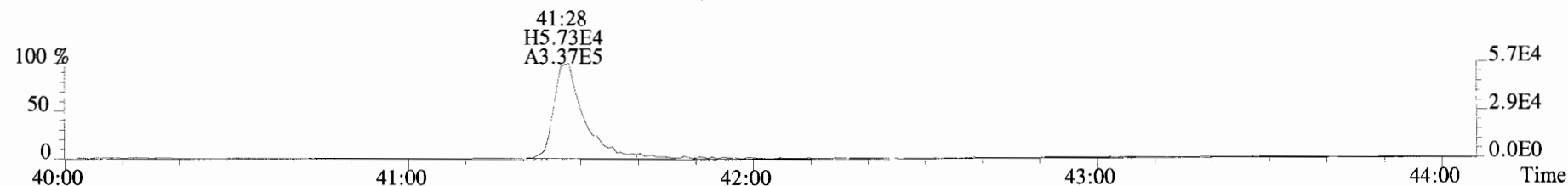
454.9728 S:3 F:4



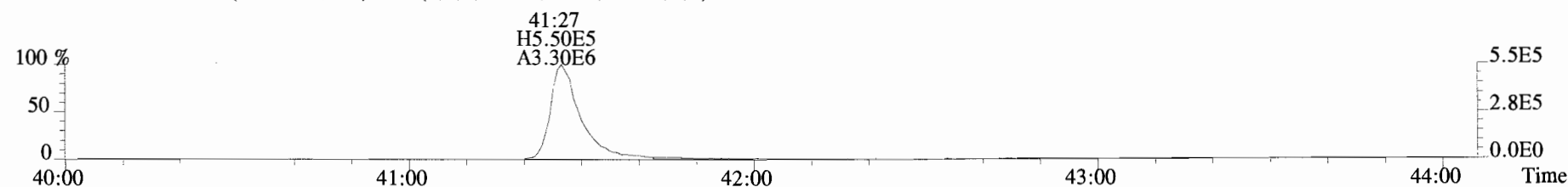
File:191009D1 #1-432 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



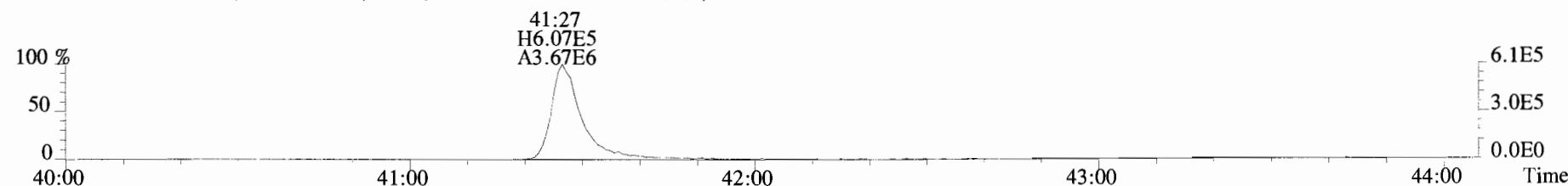
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



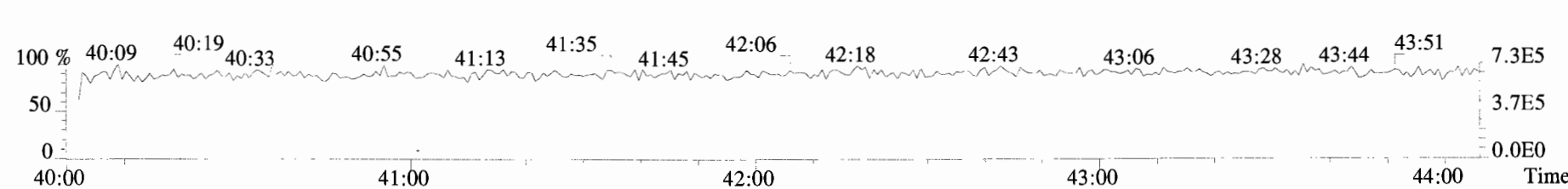
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



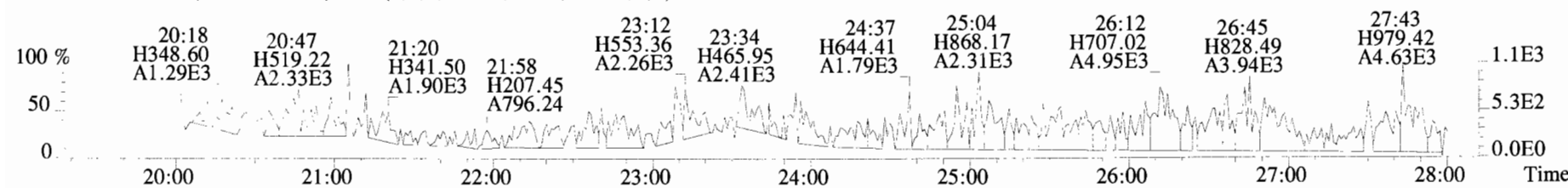
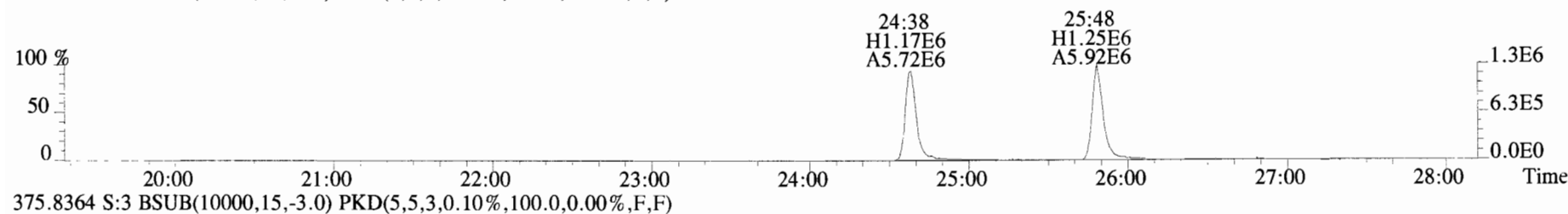
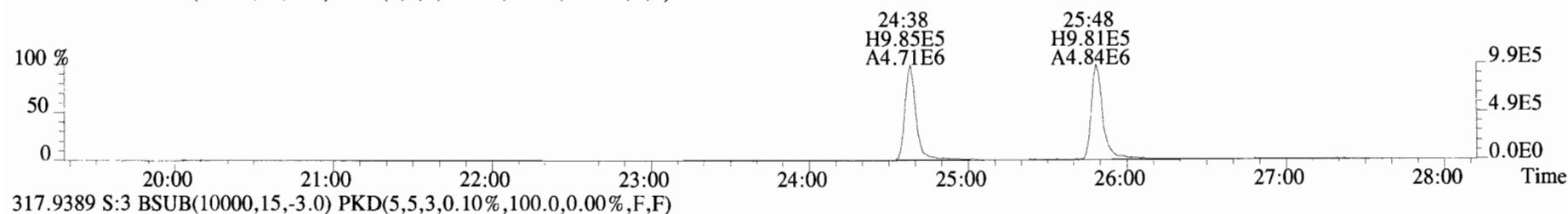
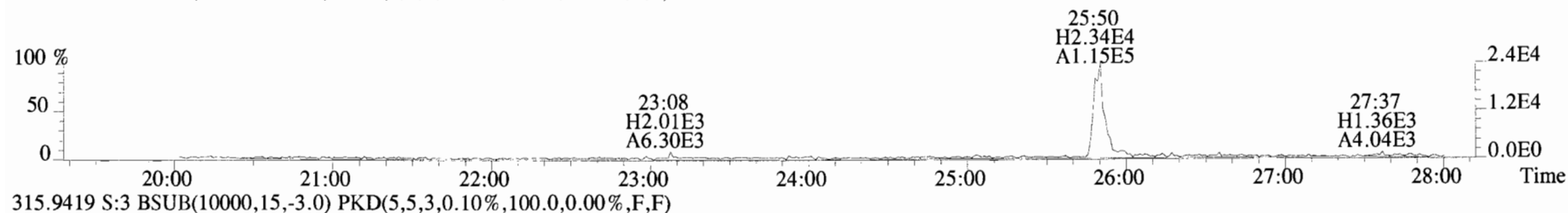
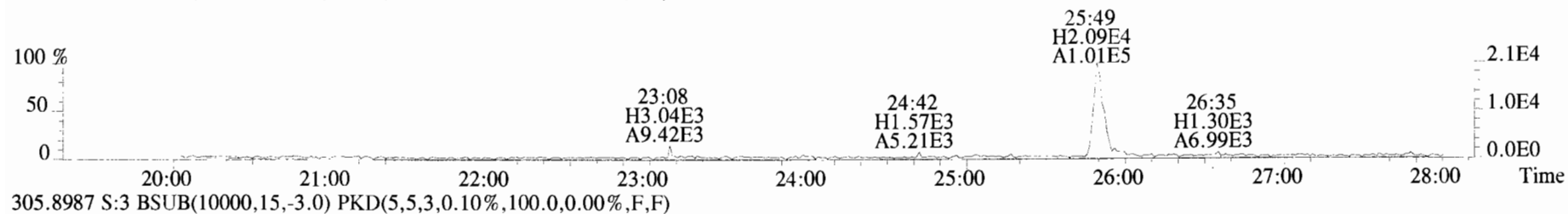
471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



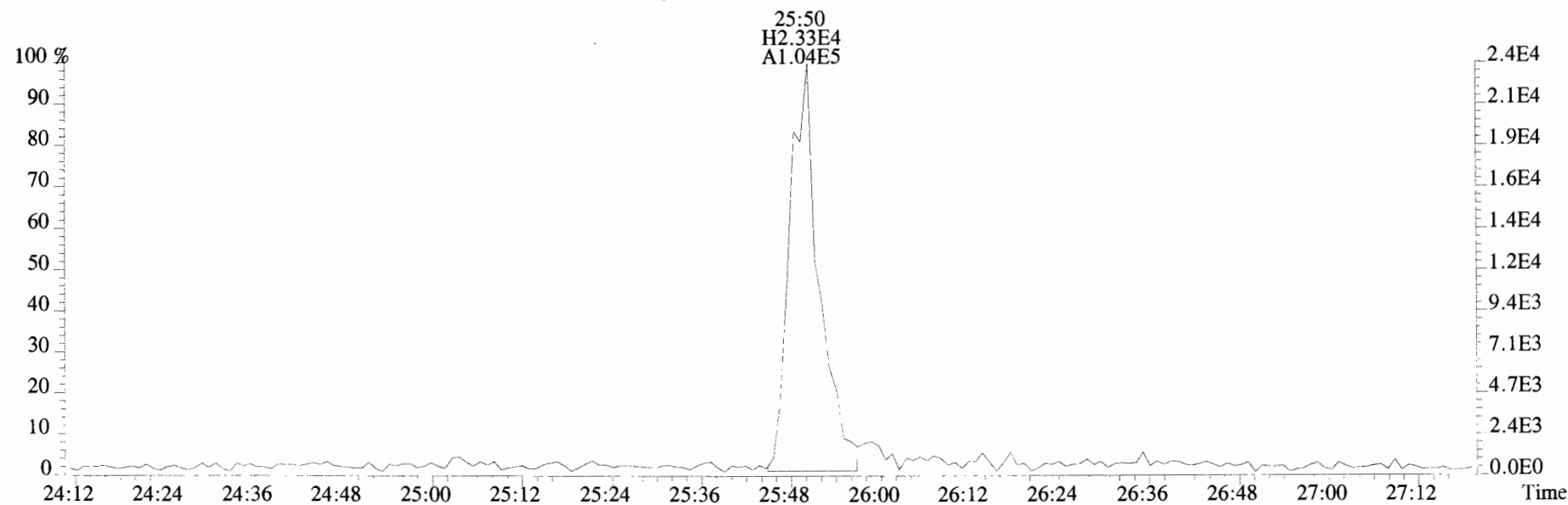
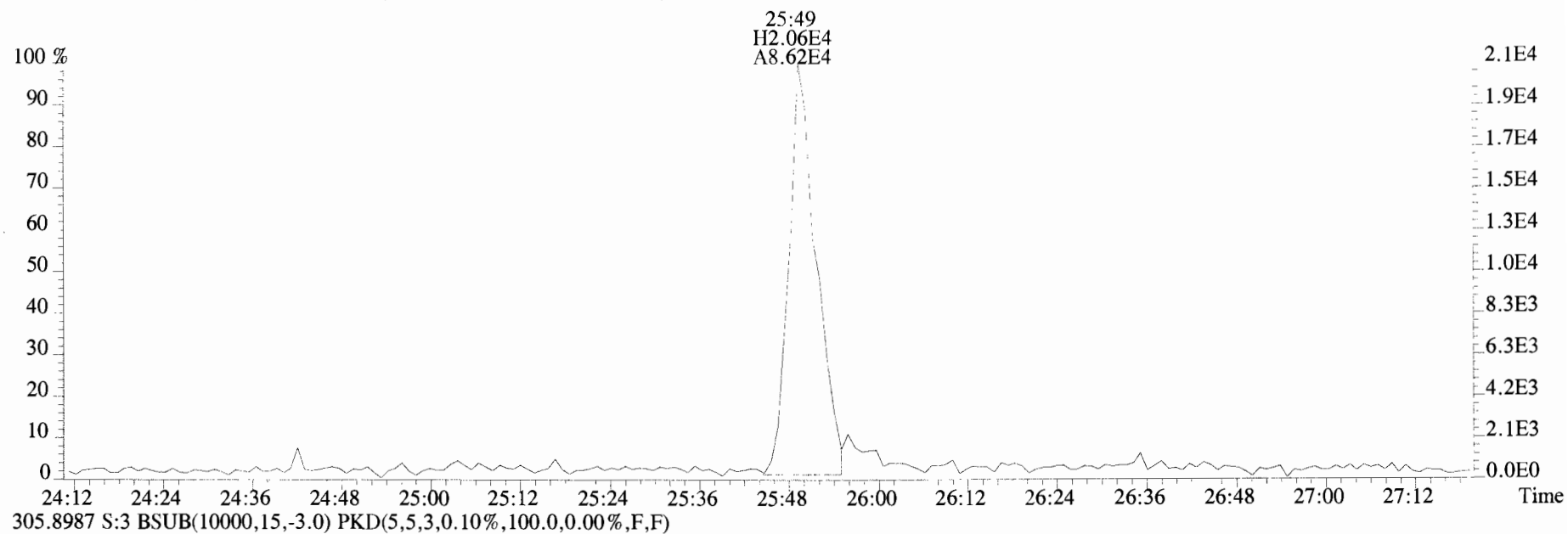
454.9728 S:3 F:5



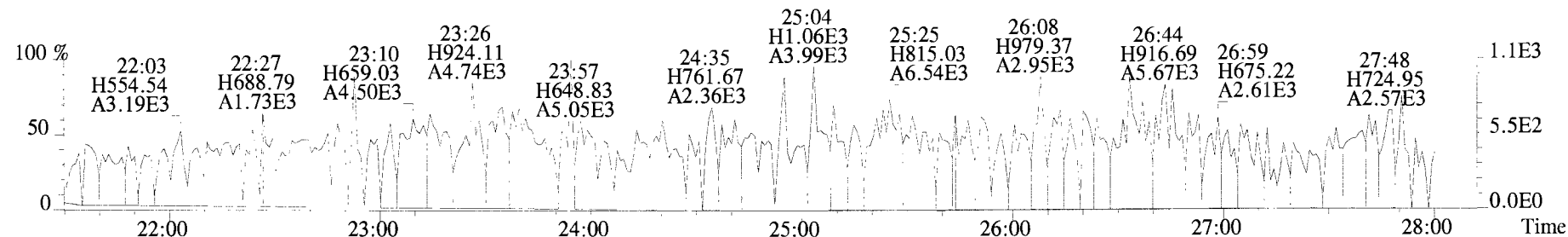
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



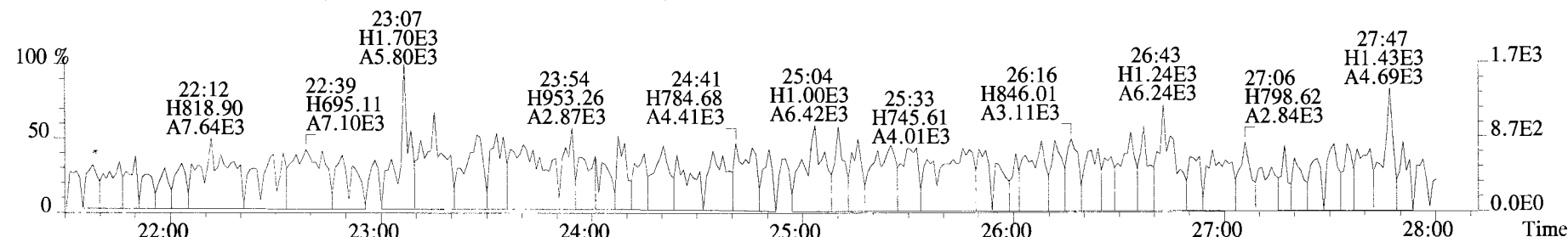
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



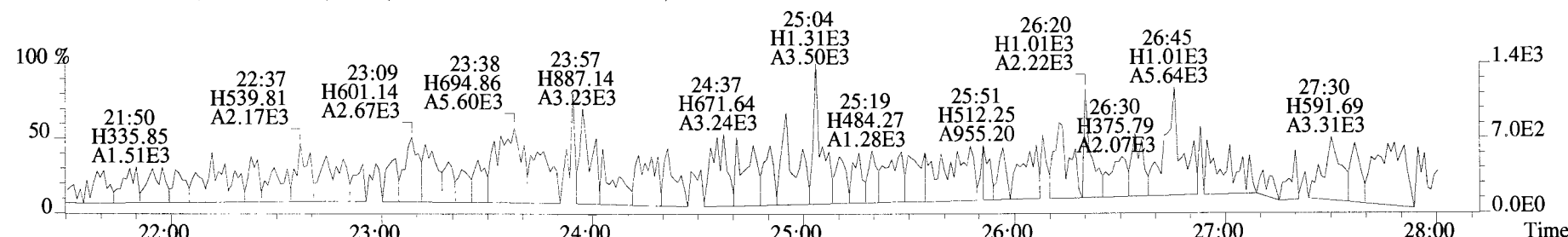
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
 339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



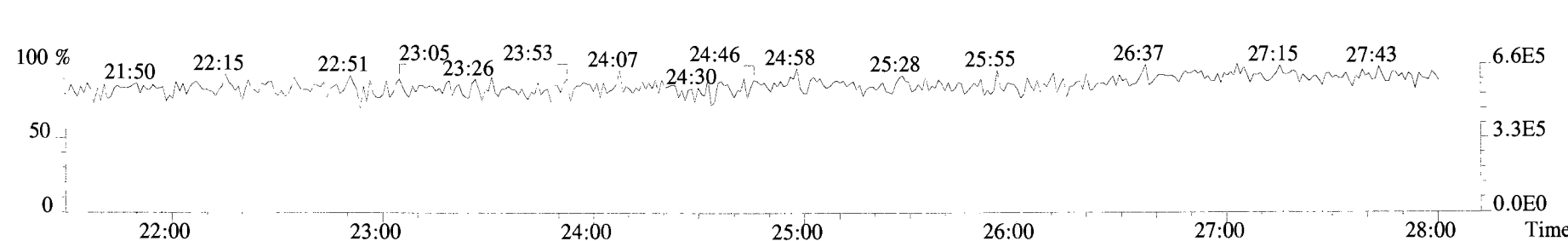
341.8568 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



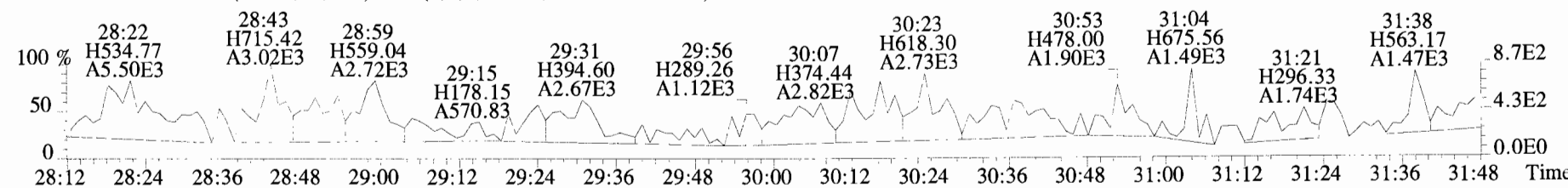
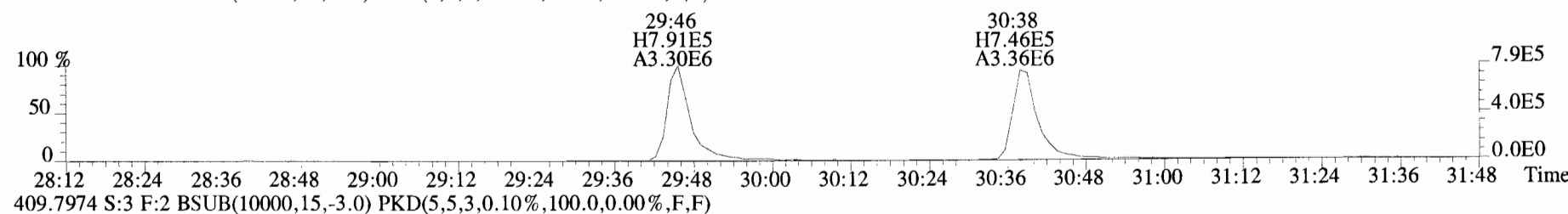
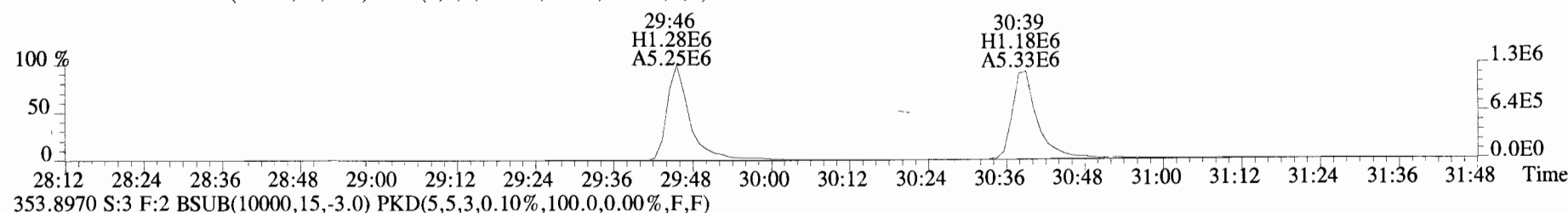
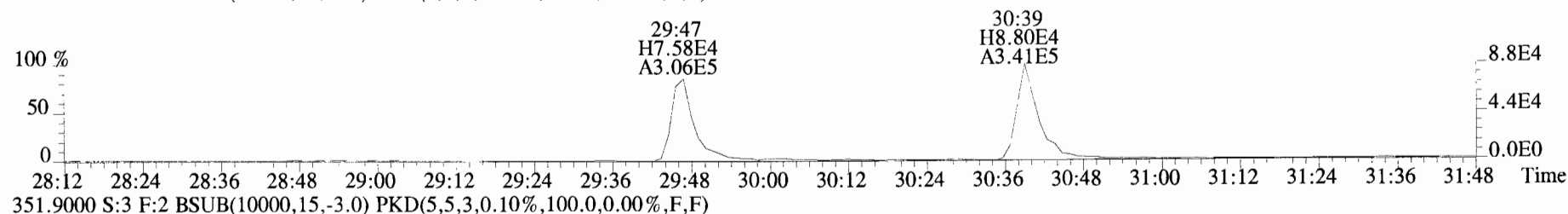
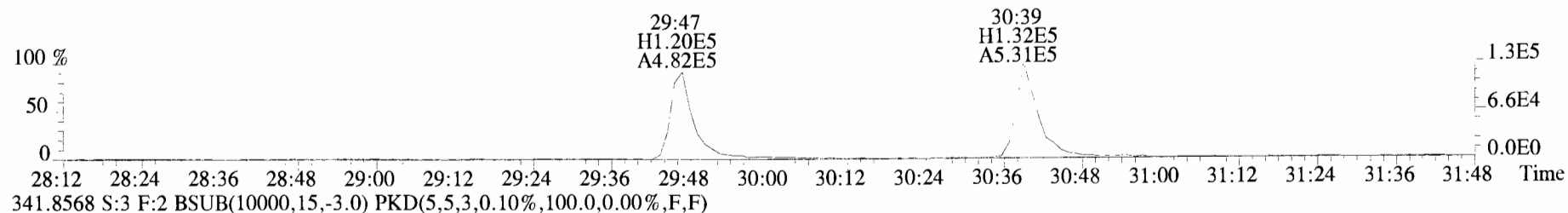
409.7974 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



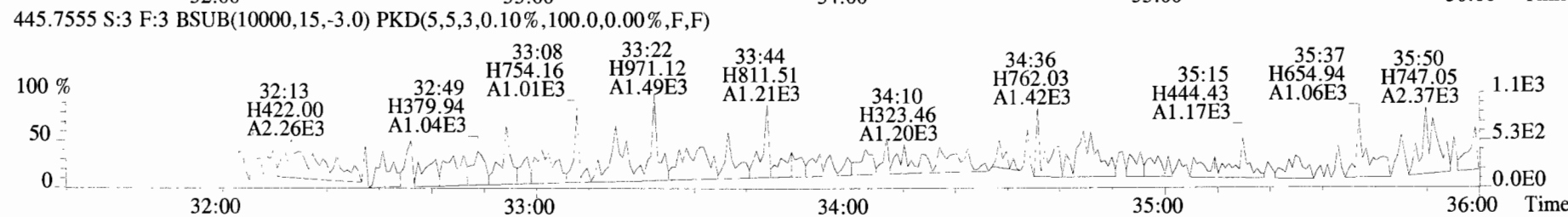
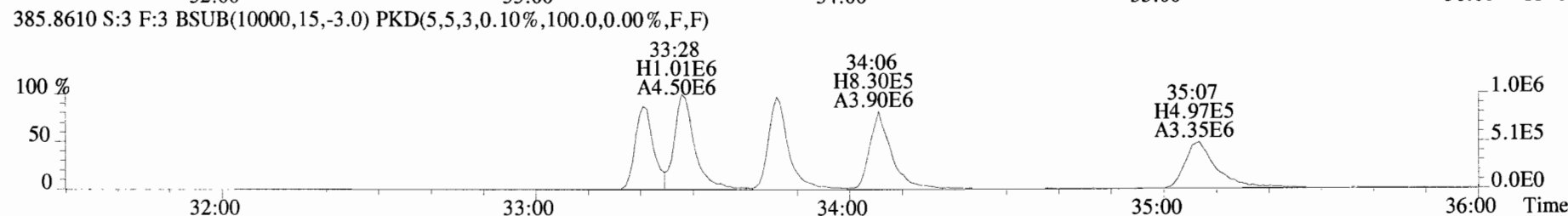
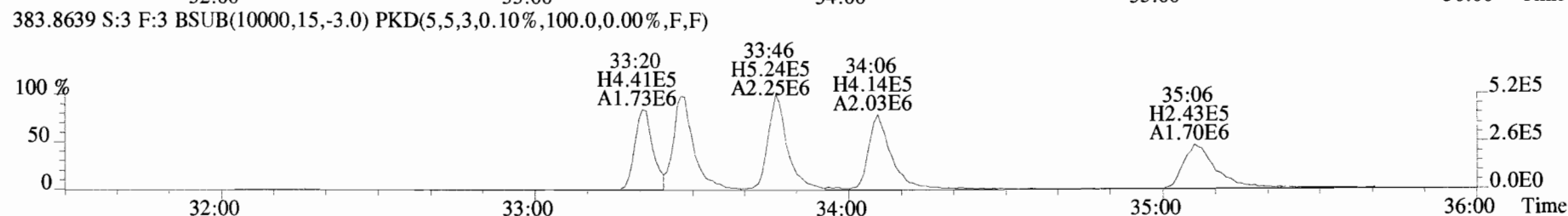
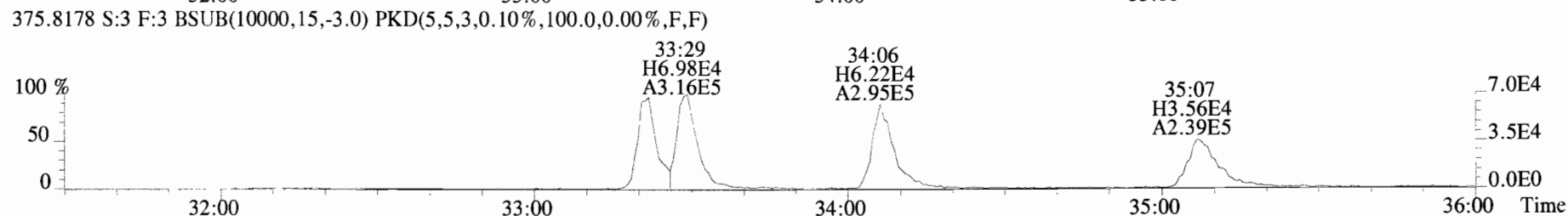
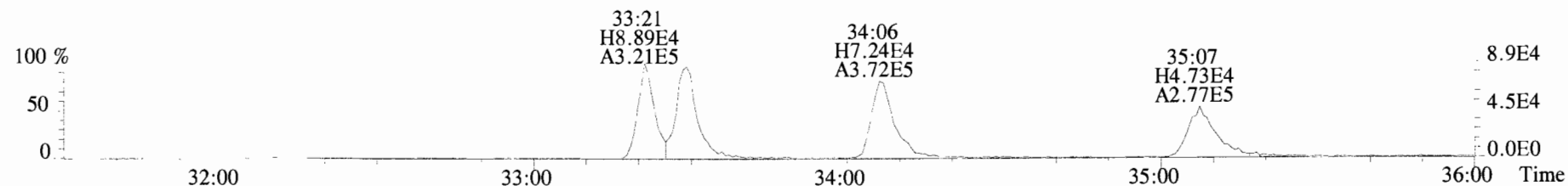
316.9824 S:3



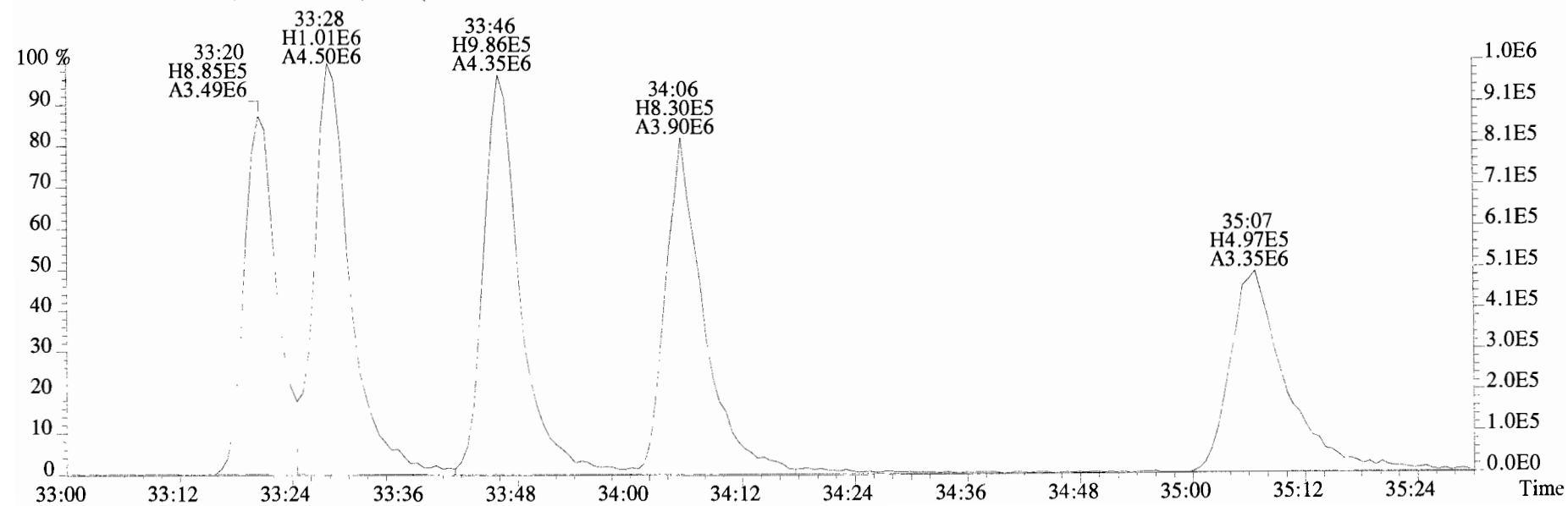
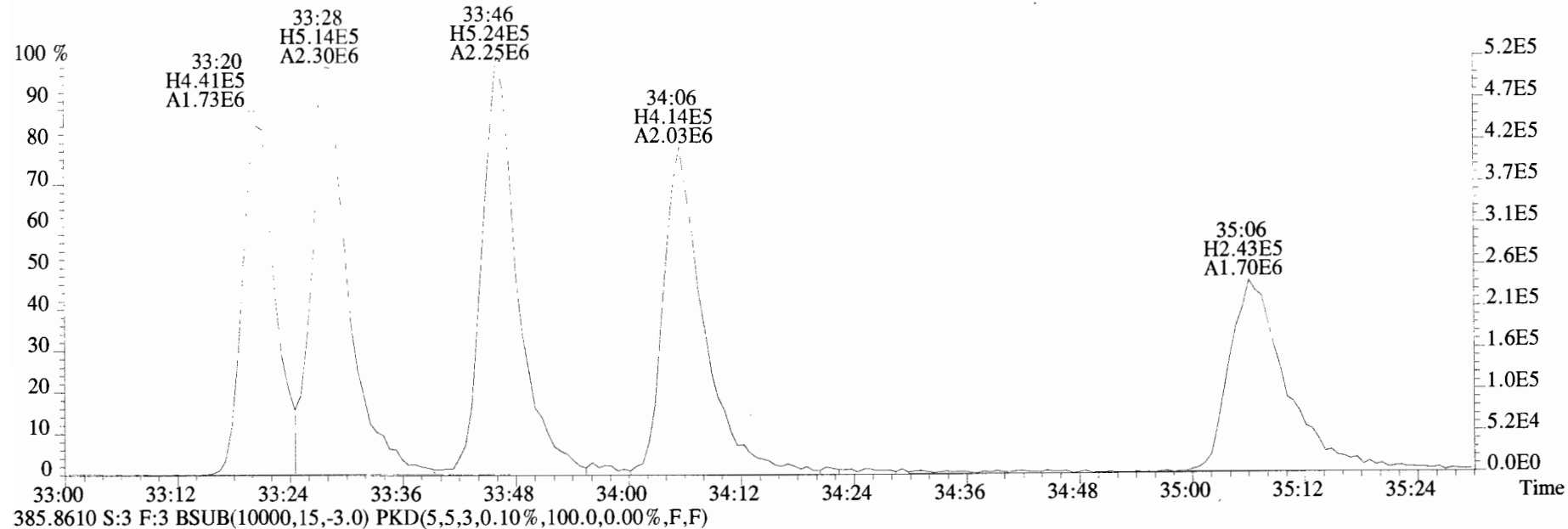
File:191009D1 #1-211 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



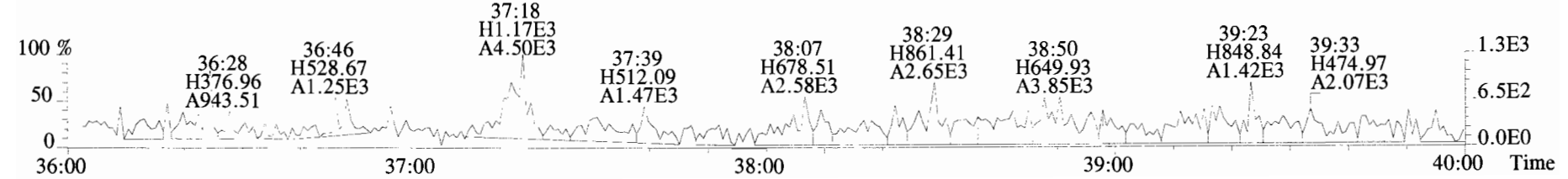
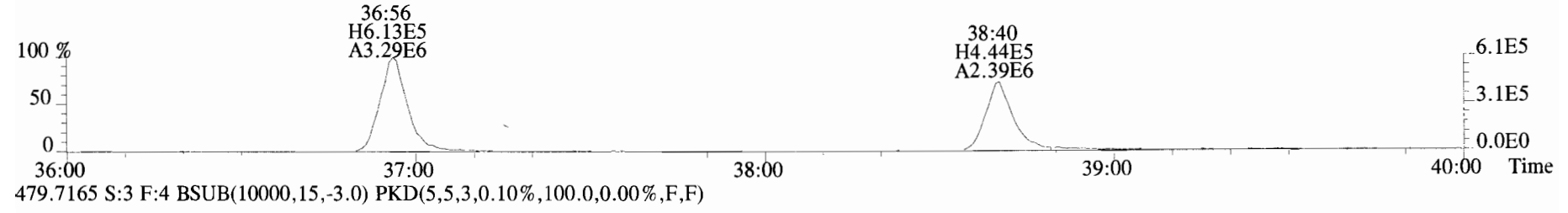
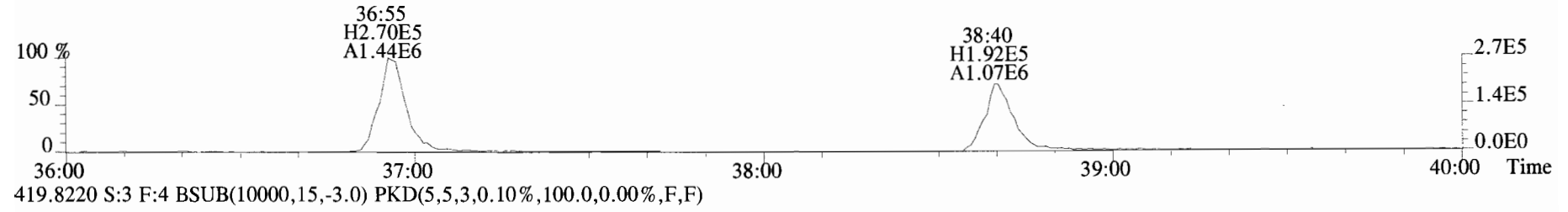
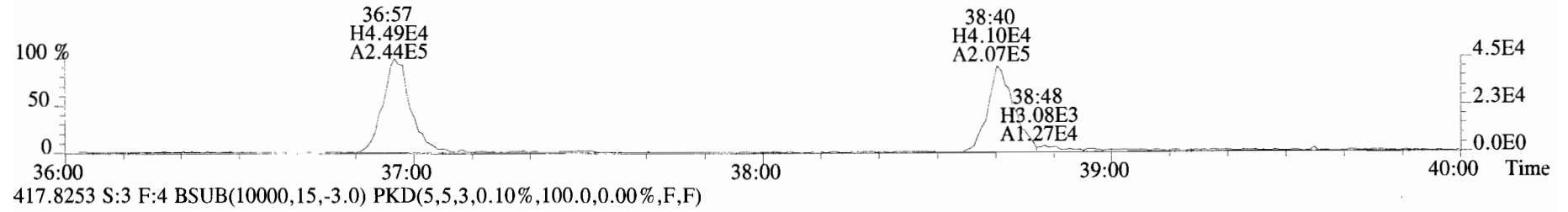
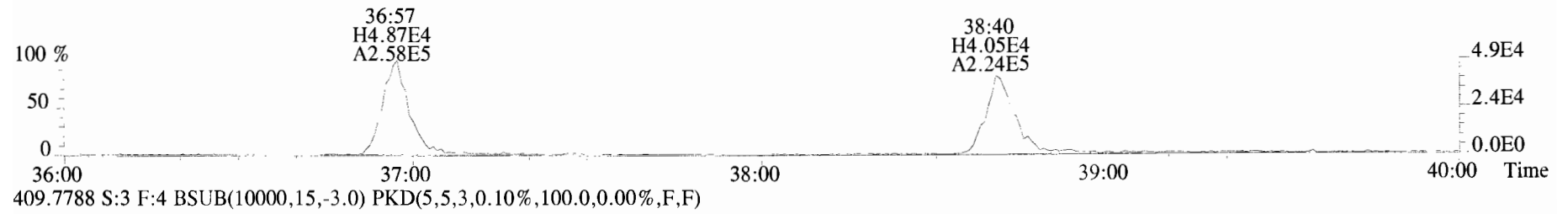
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
 373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



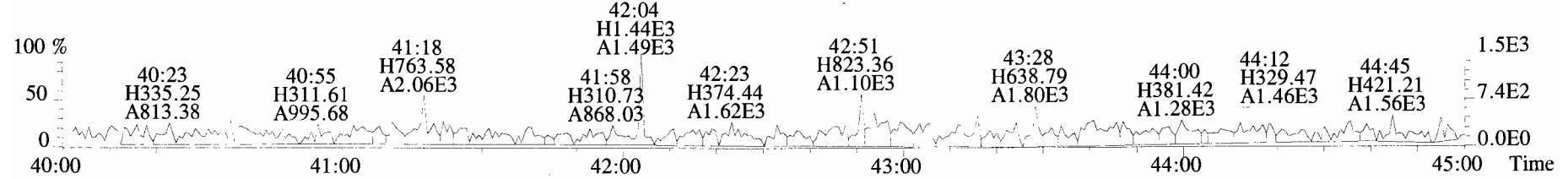
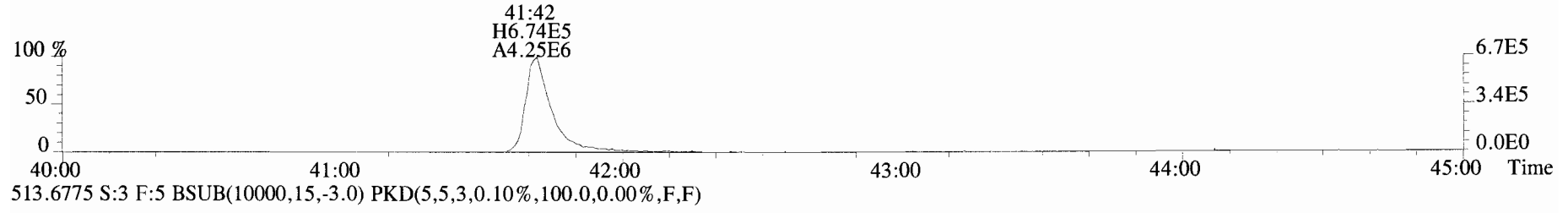
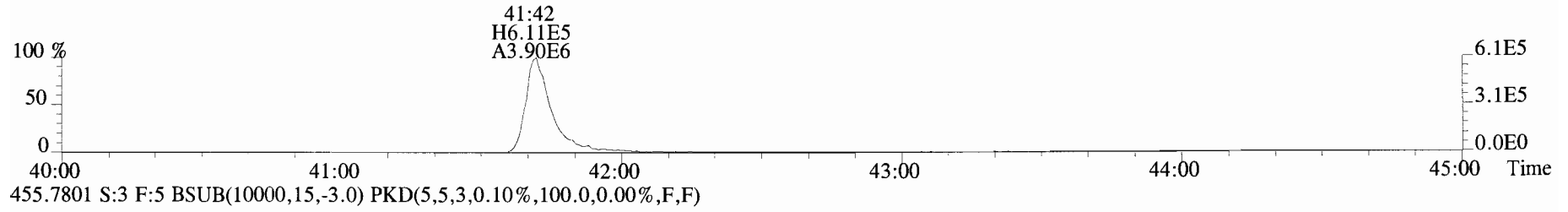
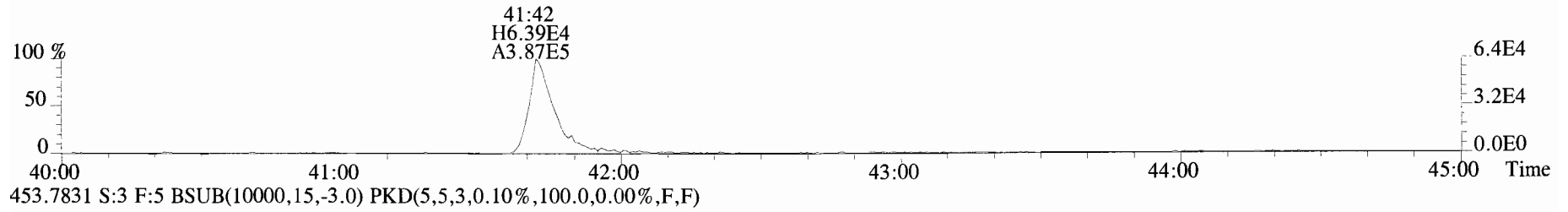
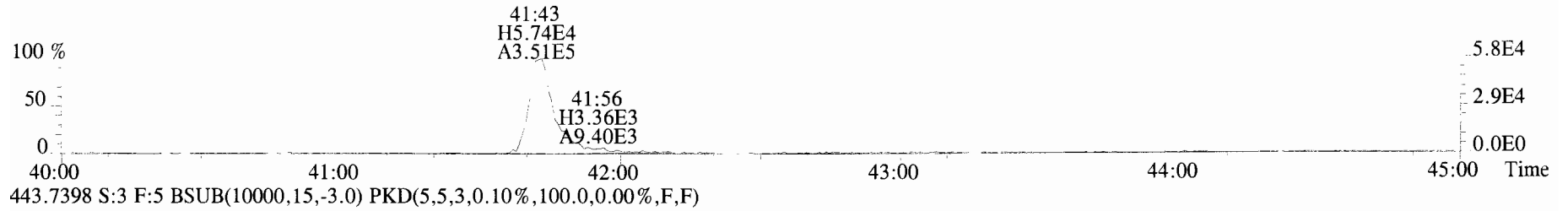
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



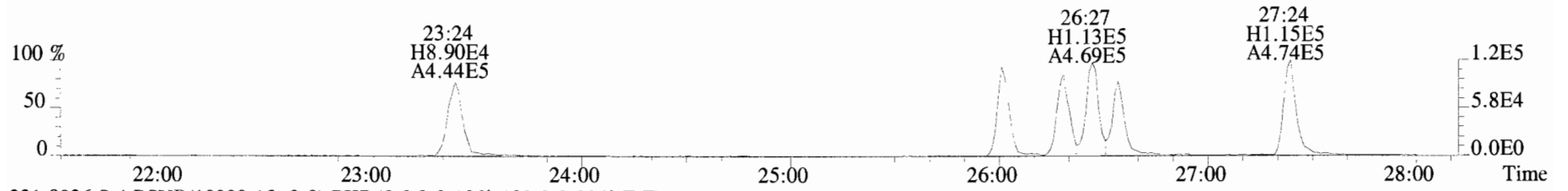
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



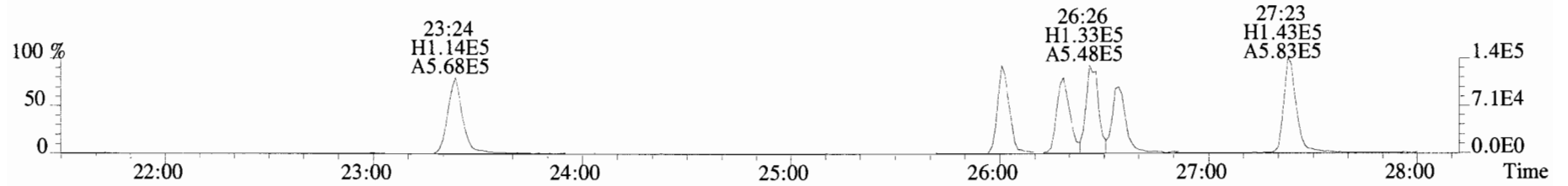
File:191009D1 #1-432 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



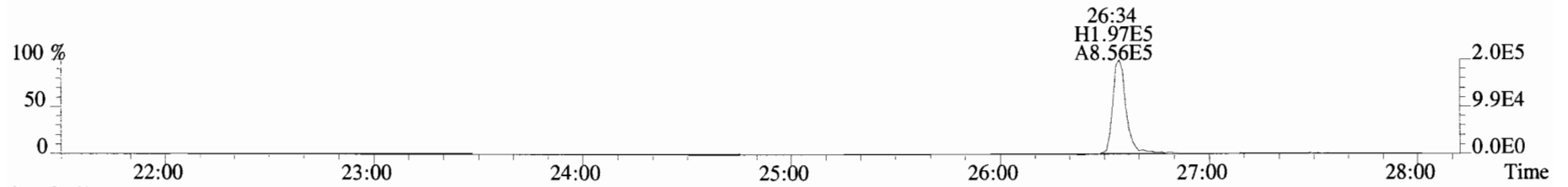
File:191009D1 #1-513 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
319.8965 S:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



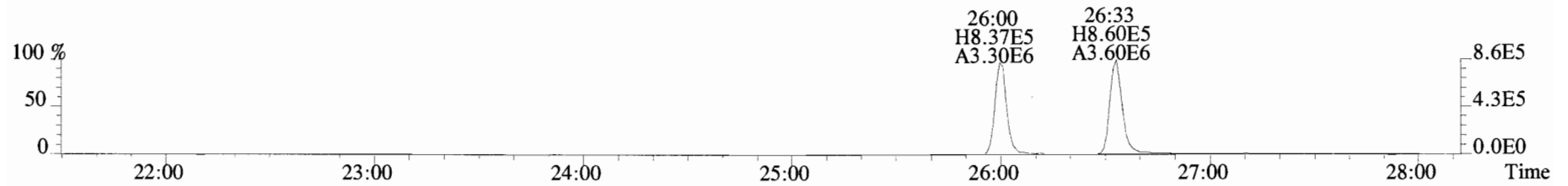
321.8936 S:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



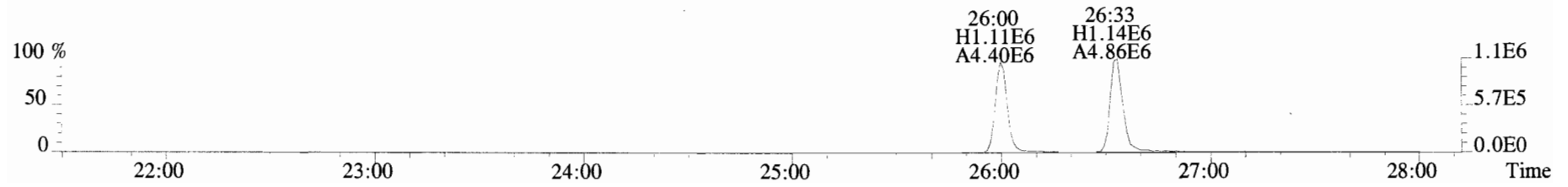
327.8847 S:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



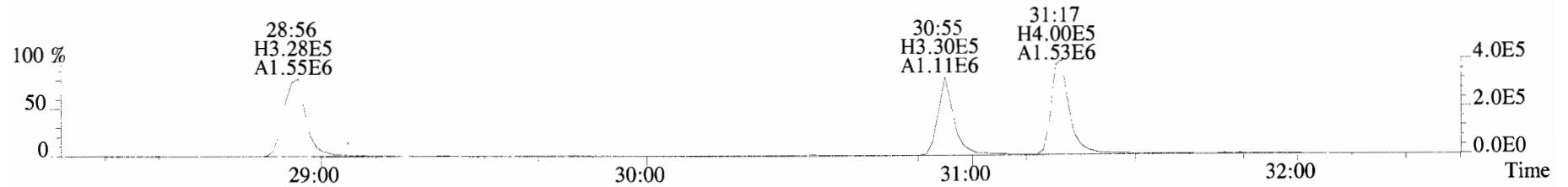
331.9368 S:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



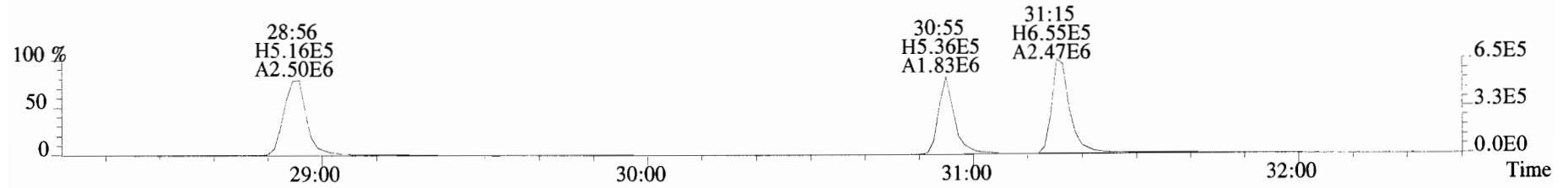
333.9339 S:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



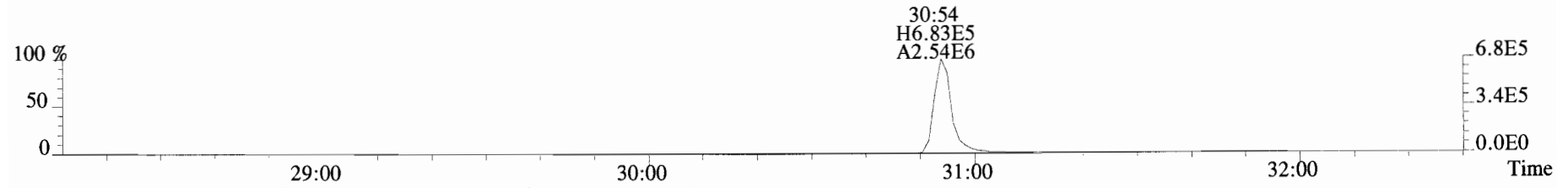
File:191009D1 #1-211 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical_Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



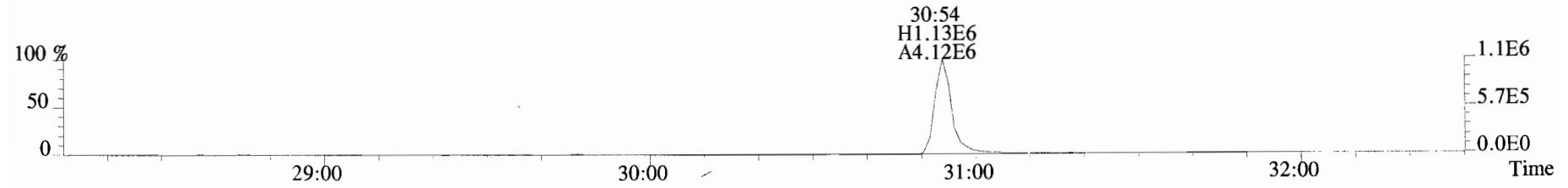
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



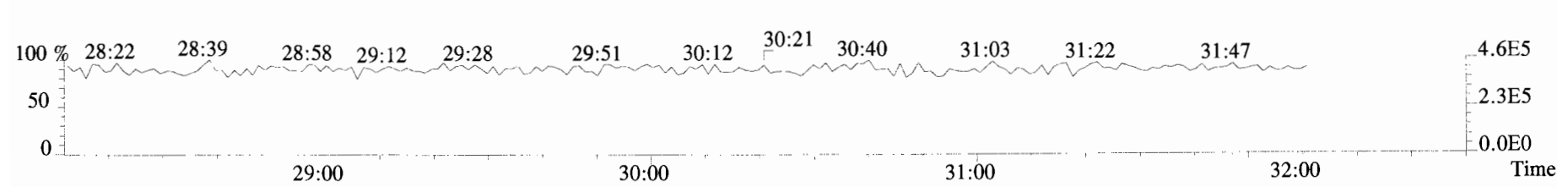
365.8978 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



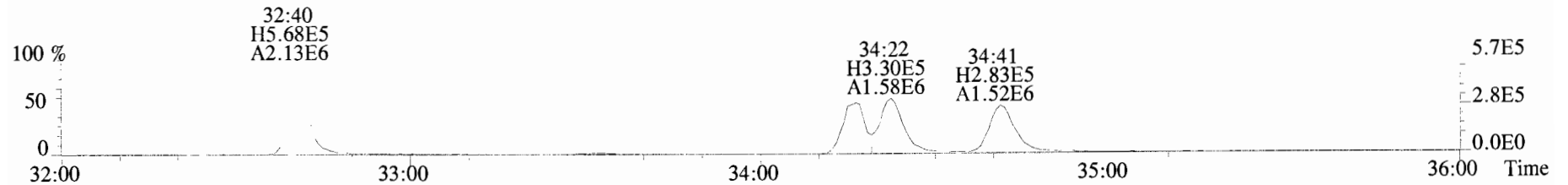
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



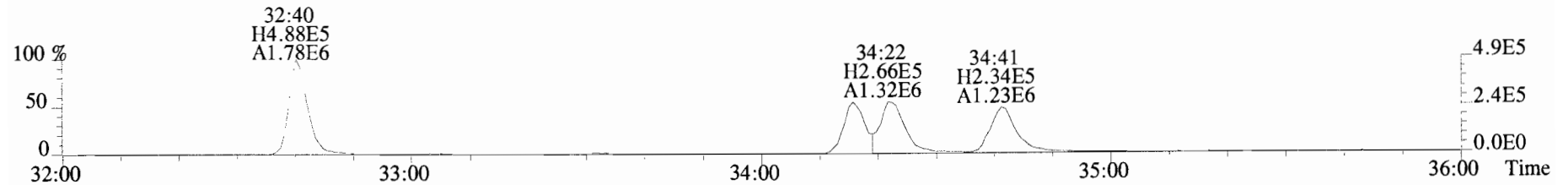
366.9792 S:4 F:2



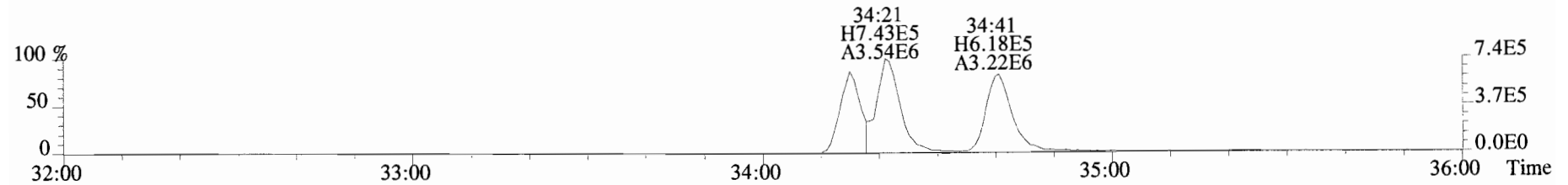
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



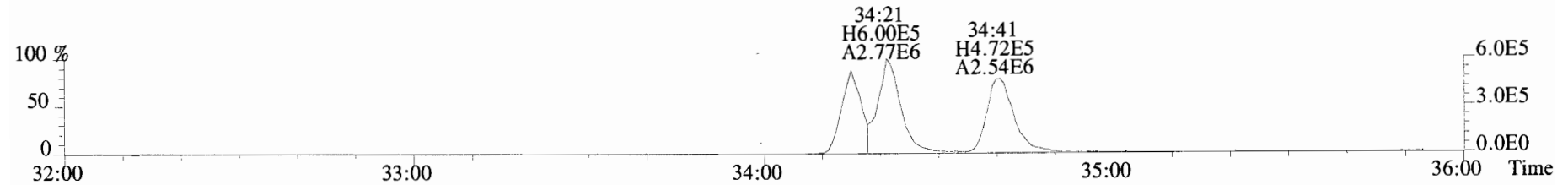
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



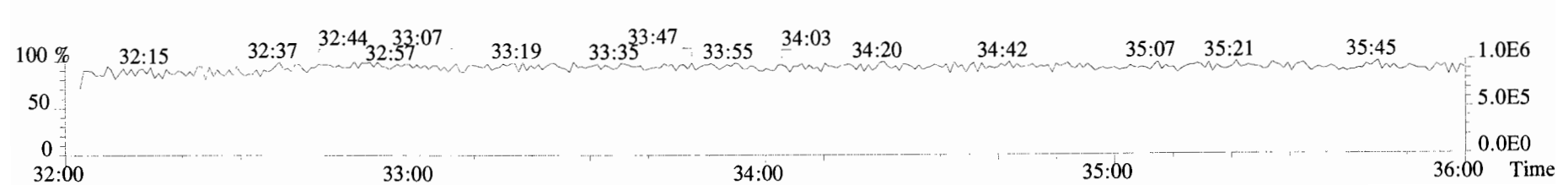
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



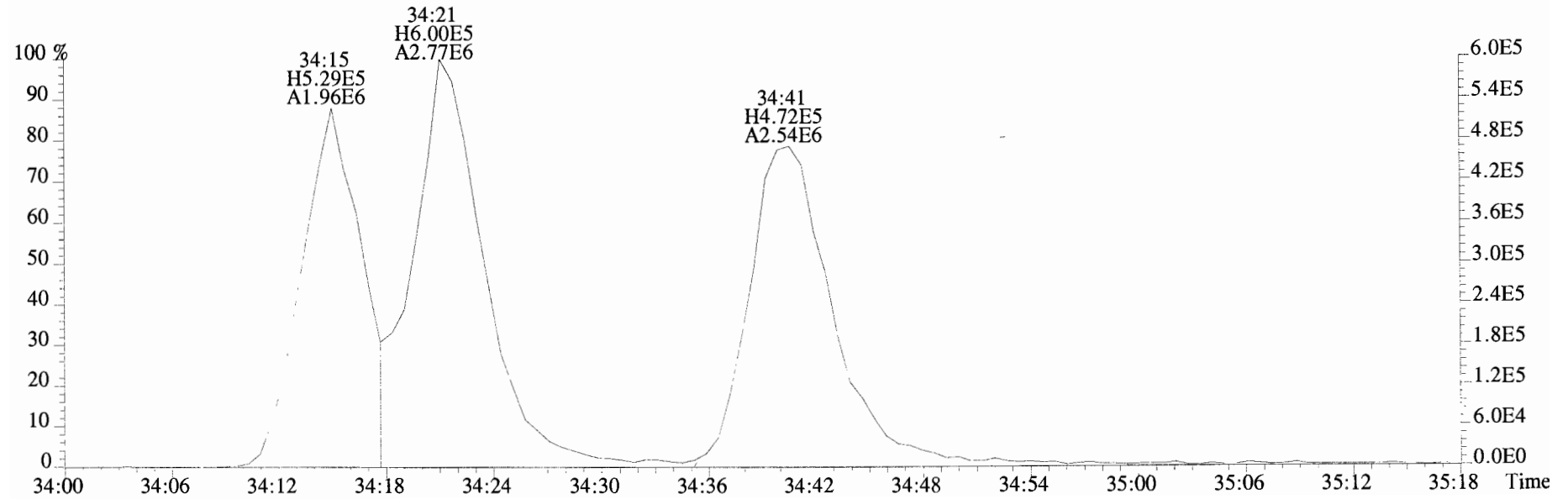
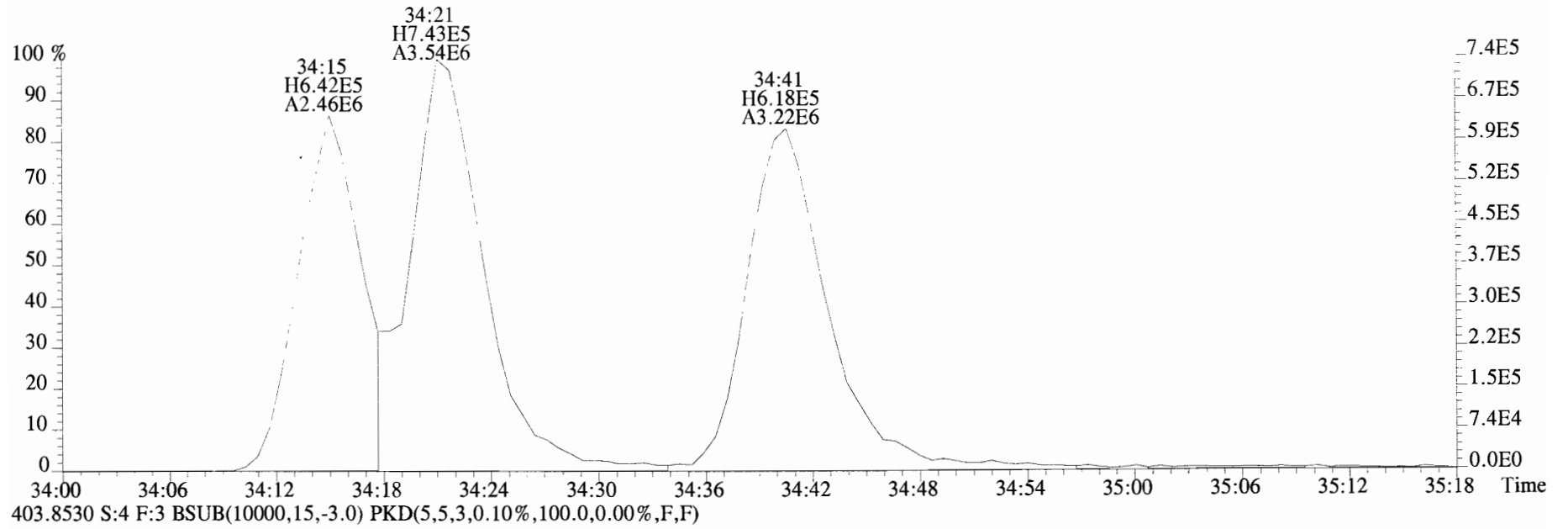
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



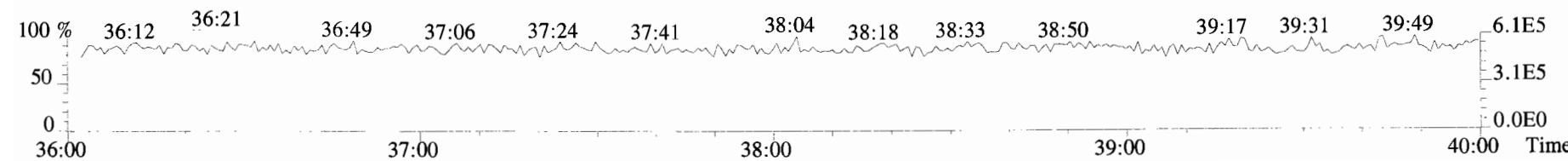
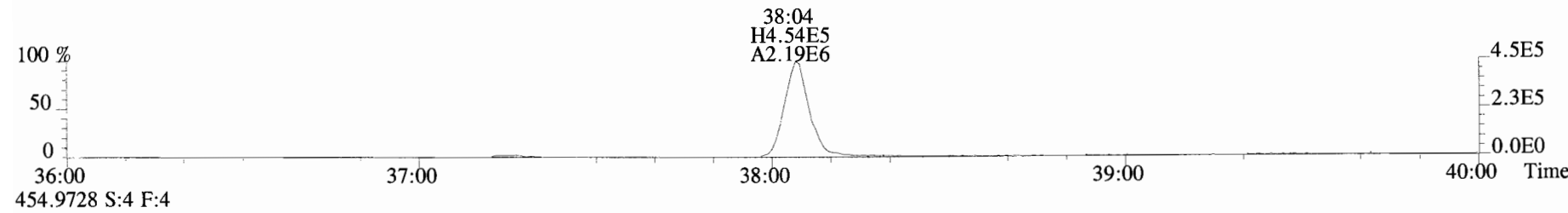
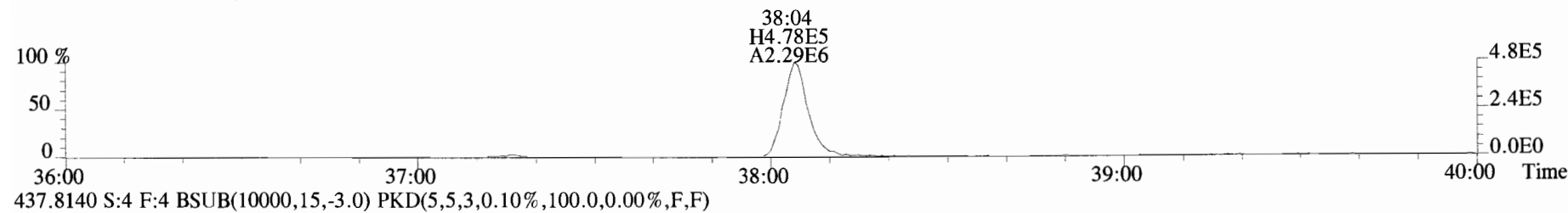
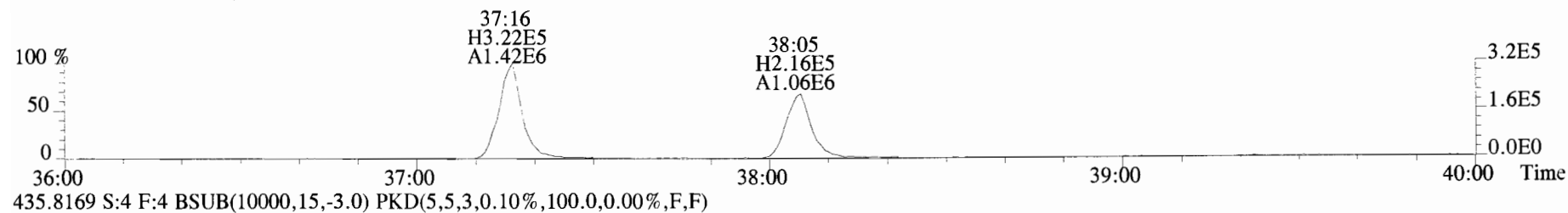
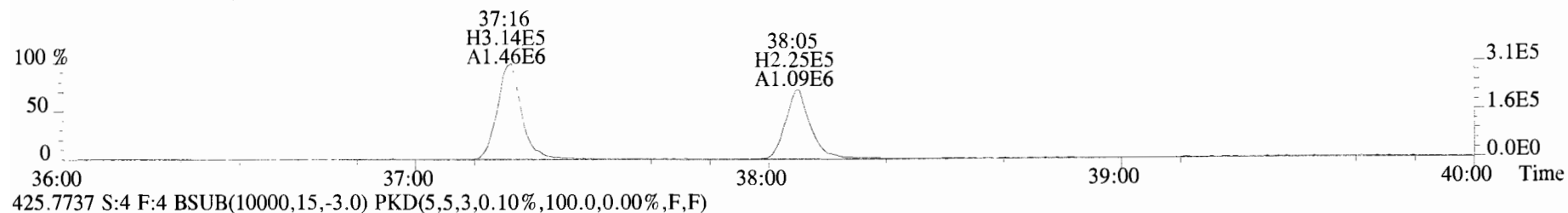
392.9760 S:4 F:3



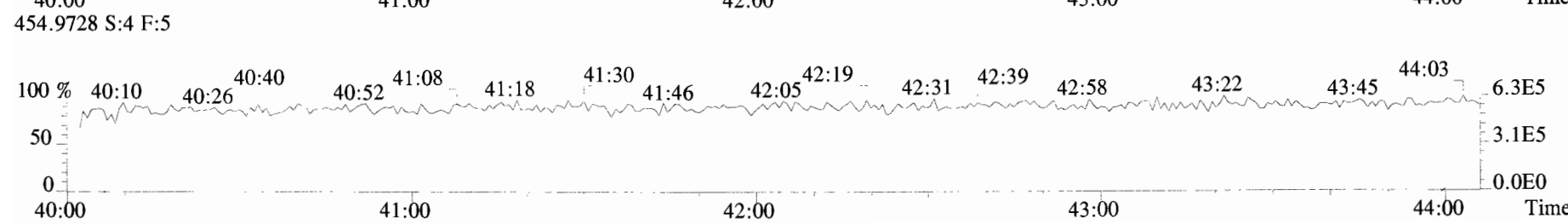
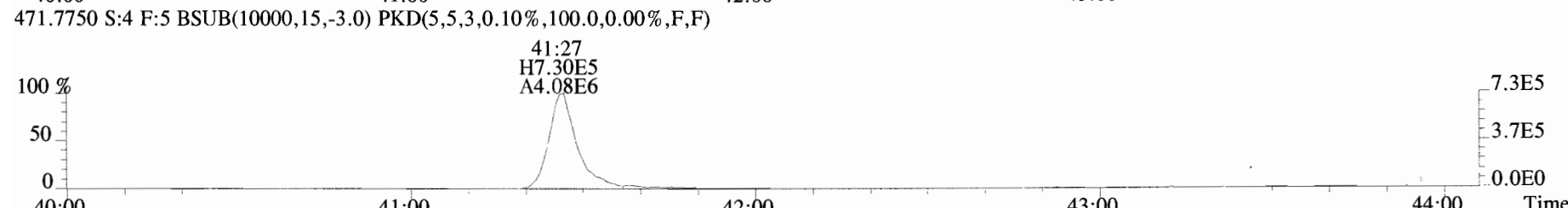
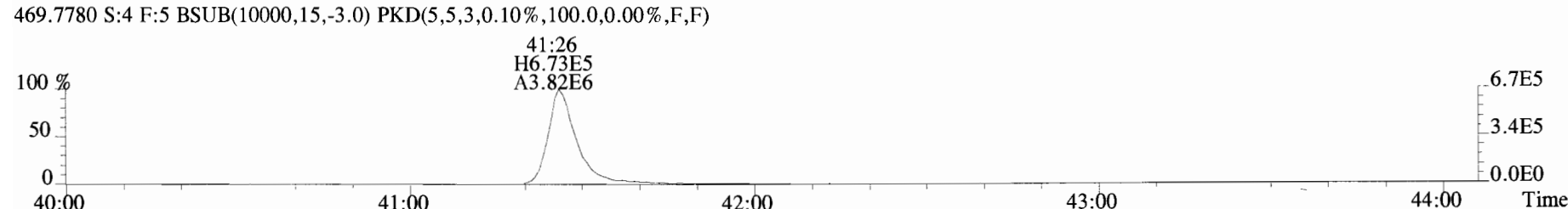
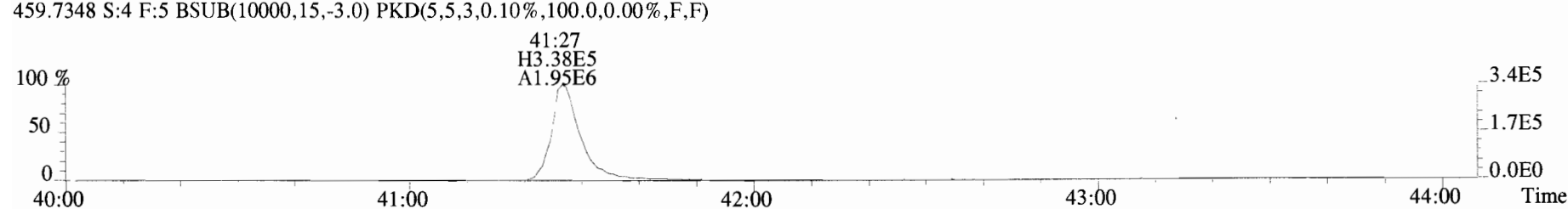
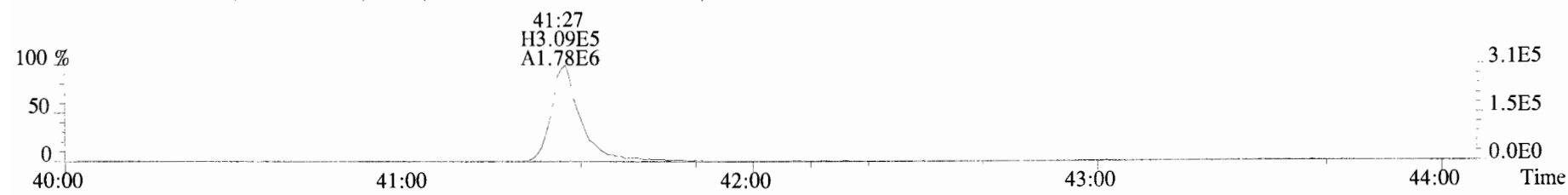
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



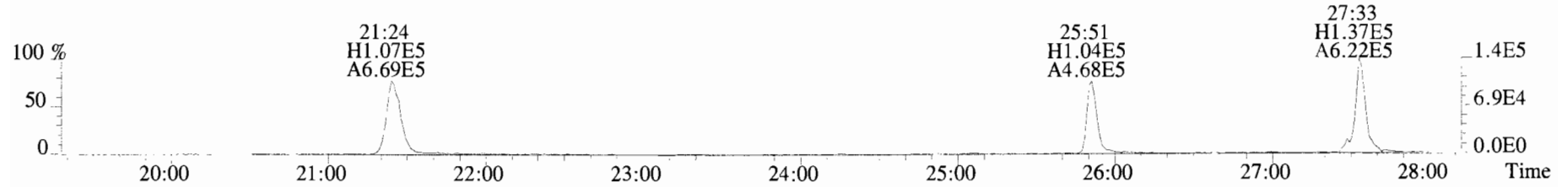
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



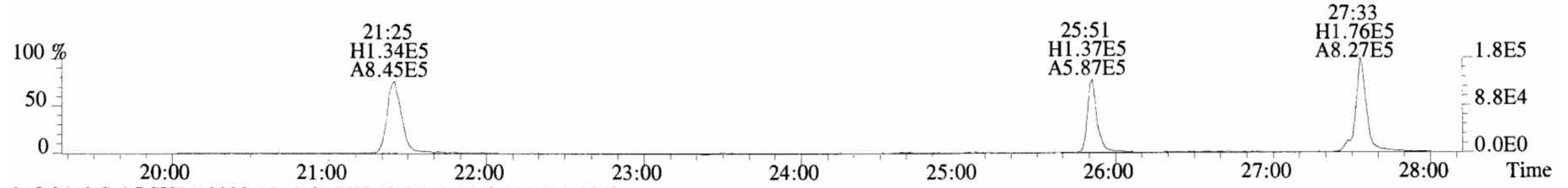
File:191009D1 #1-432 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



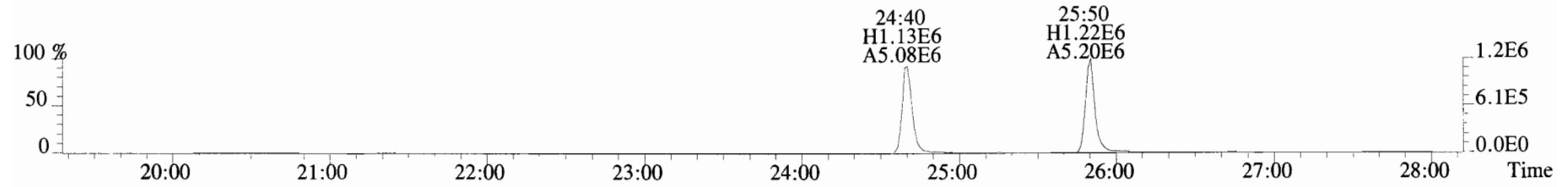
File:191009D1 #1-513 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



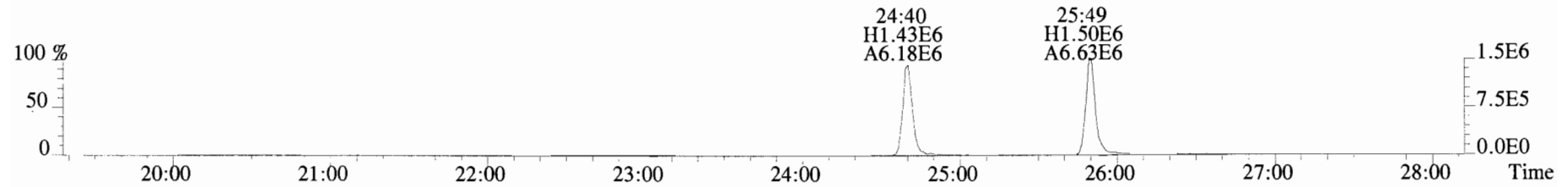
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



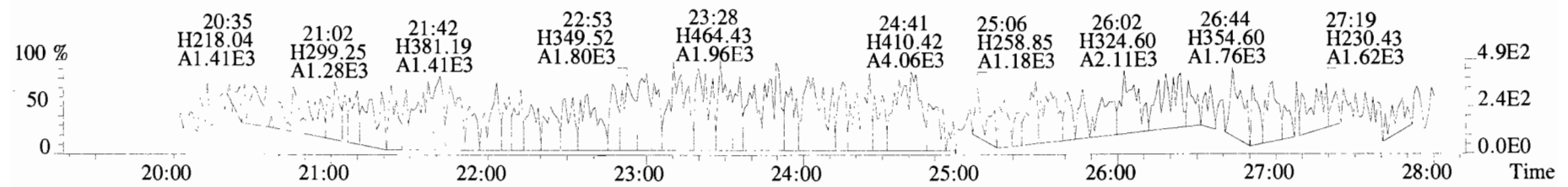
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



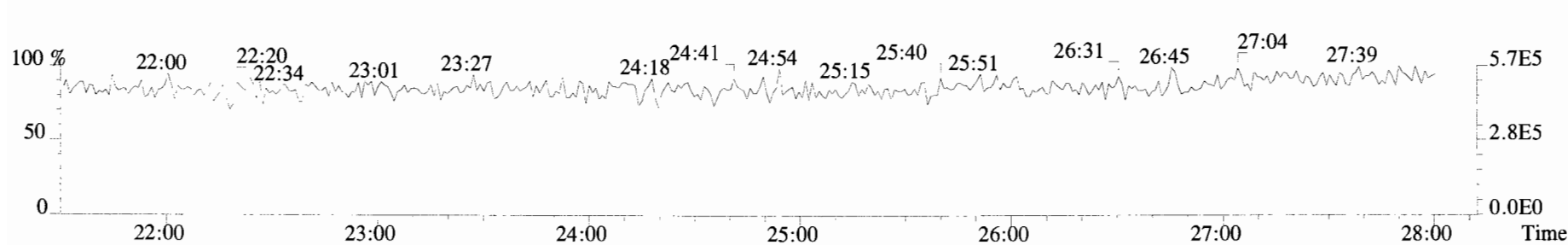
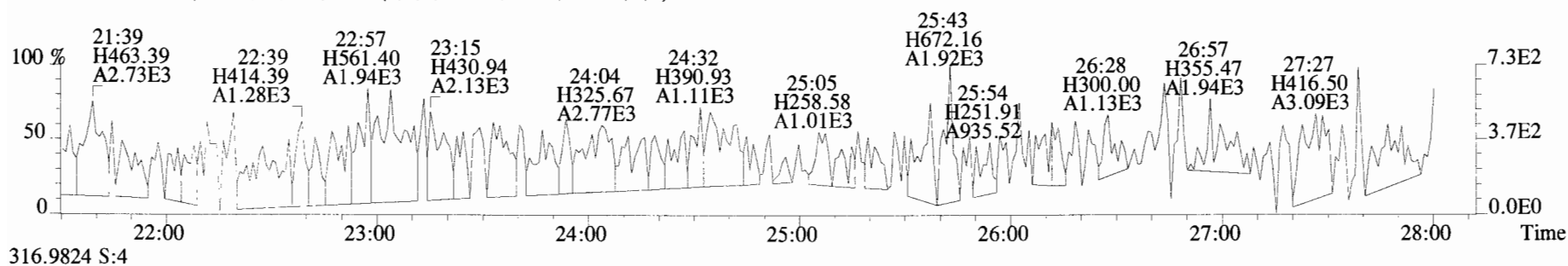
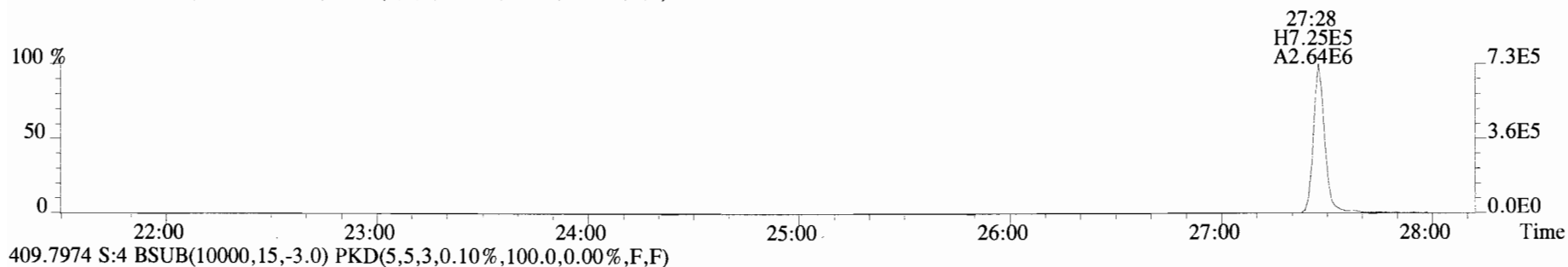
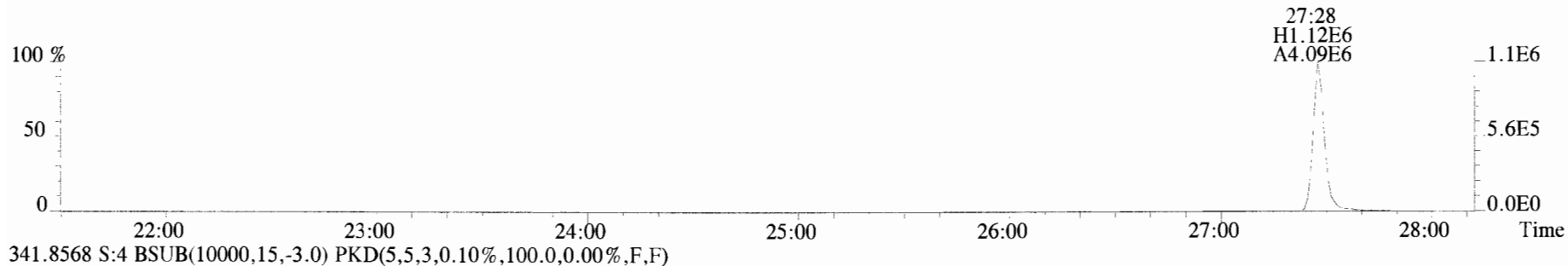
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



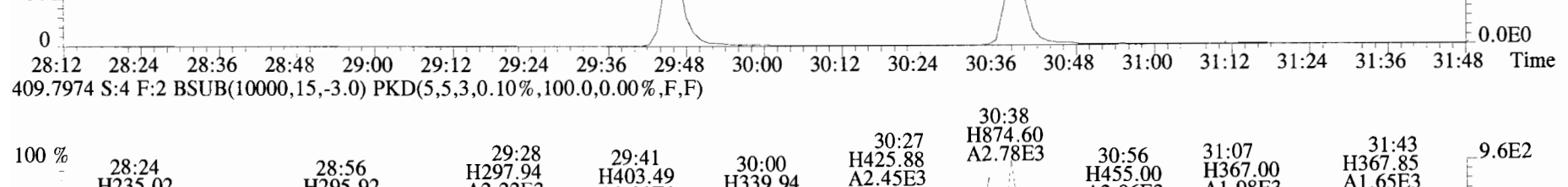
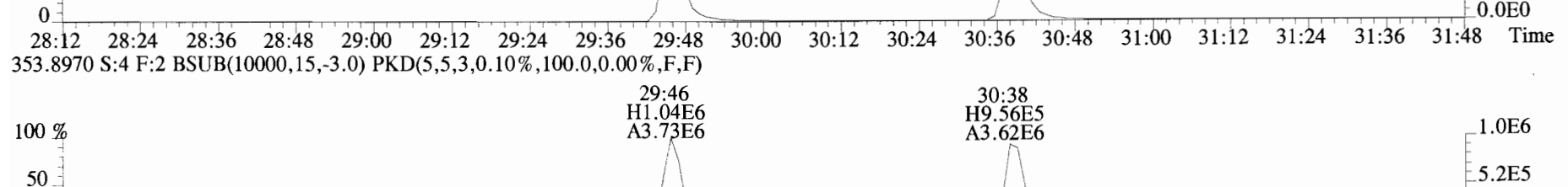
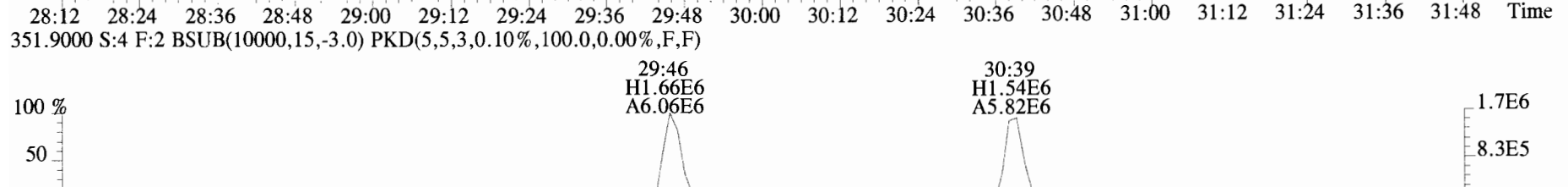
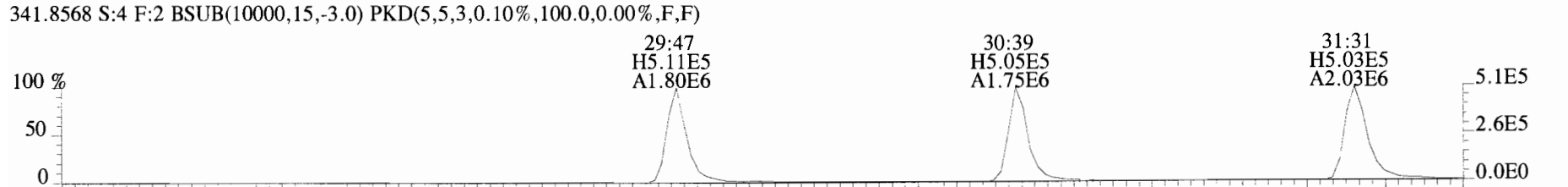
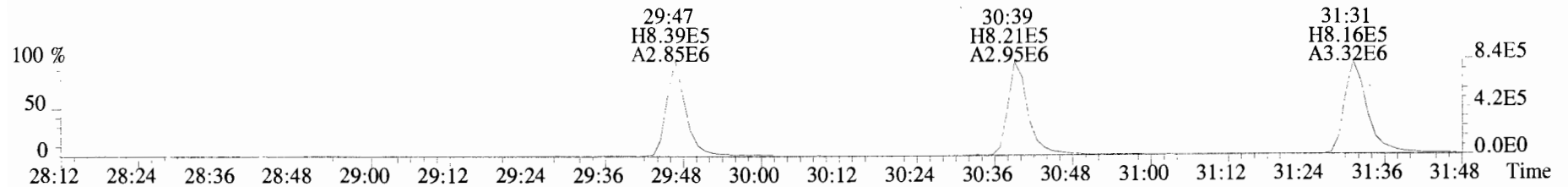
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



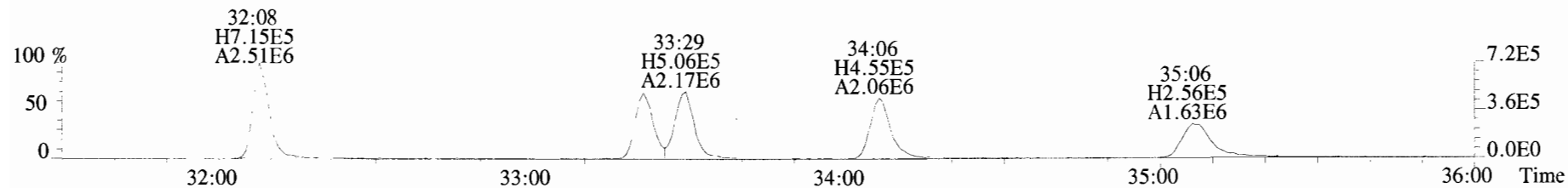
File:191009D1 #1-513 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



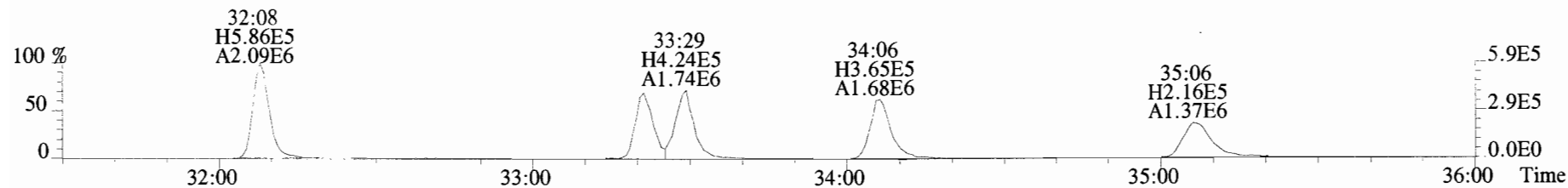
File:191009D1 #1-211 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



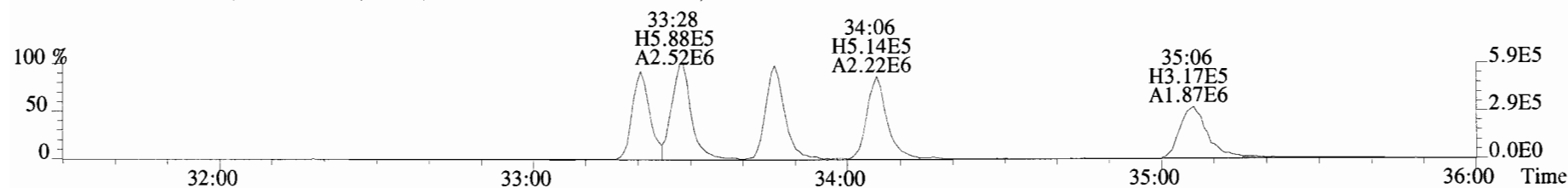
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
 373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



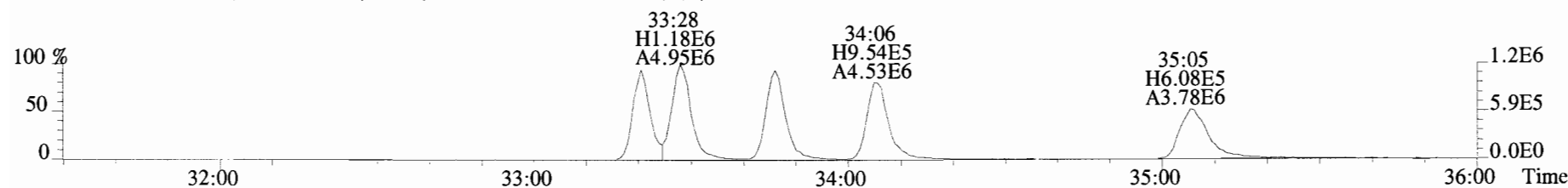
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



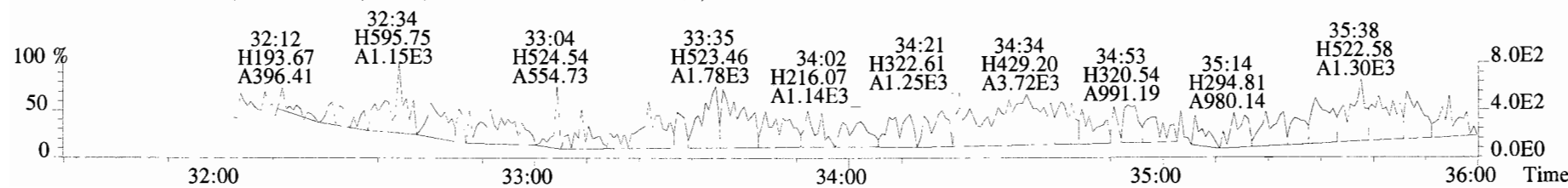
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



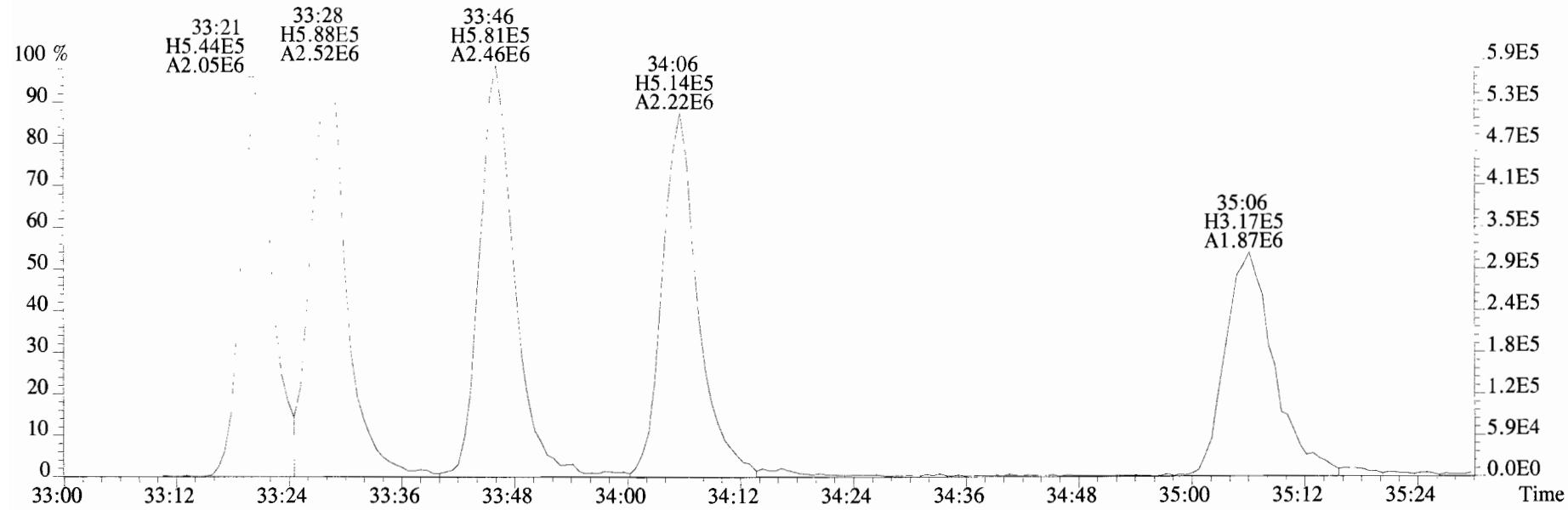
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



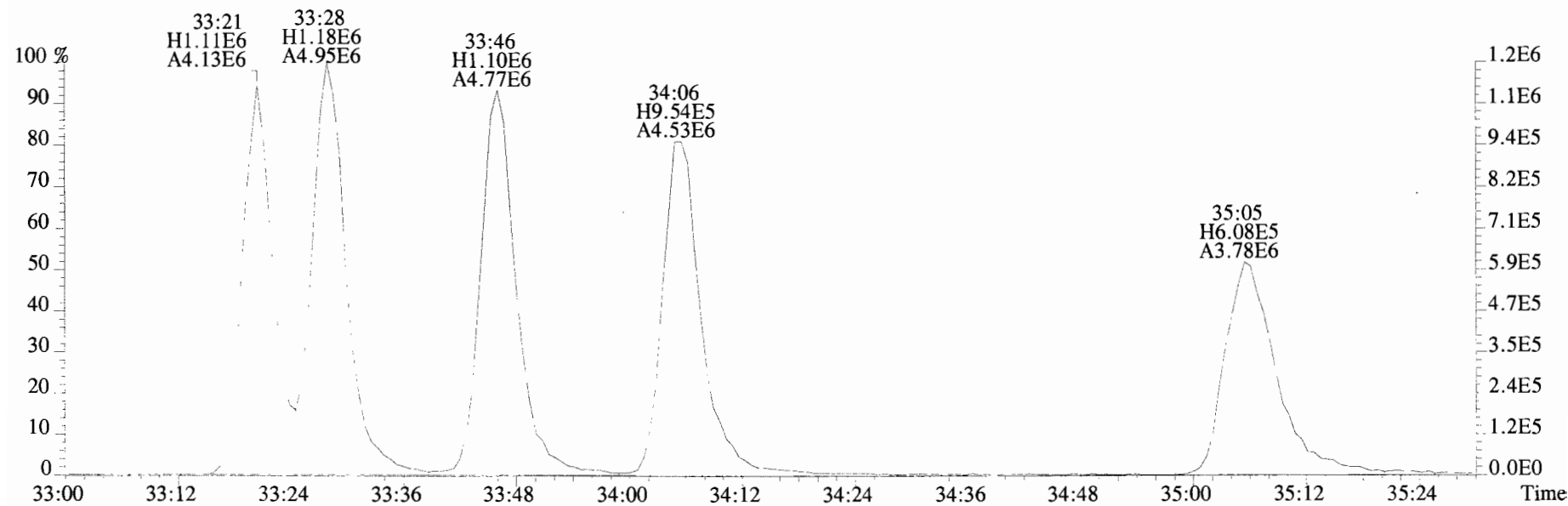
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



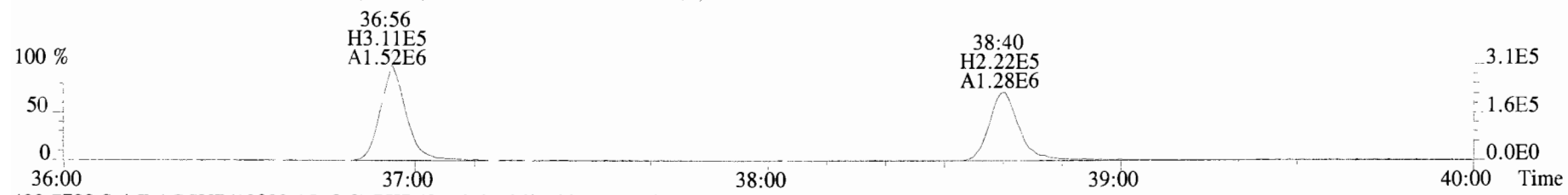
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
 383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



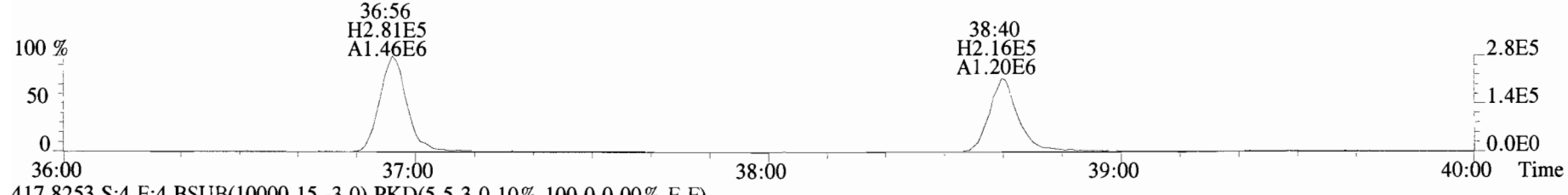
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



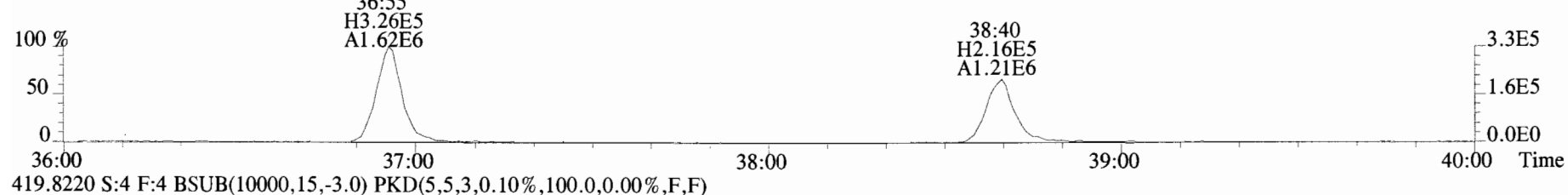
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
 407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



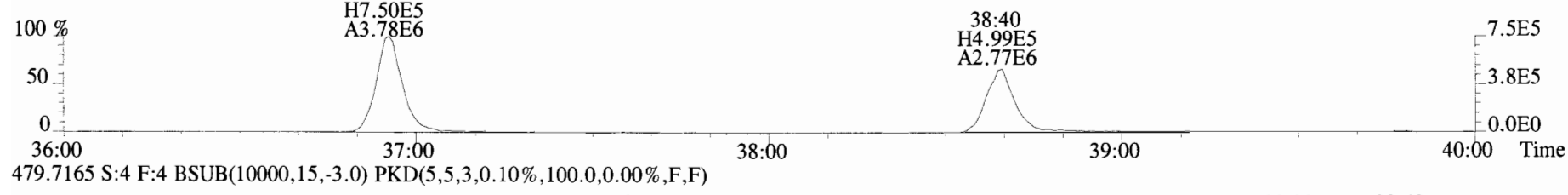
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



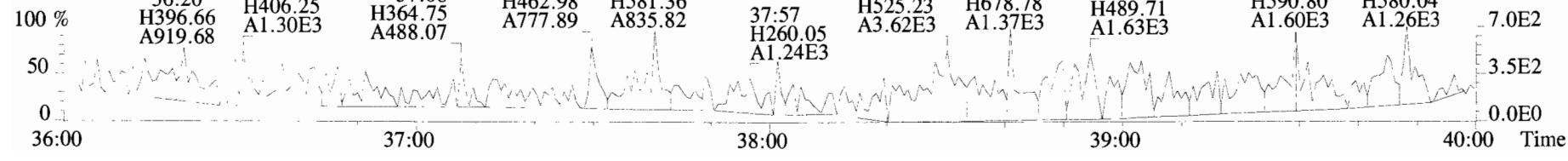
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



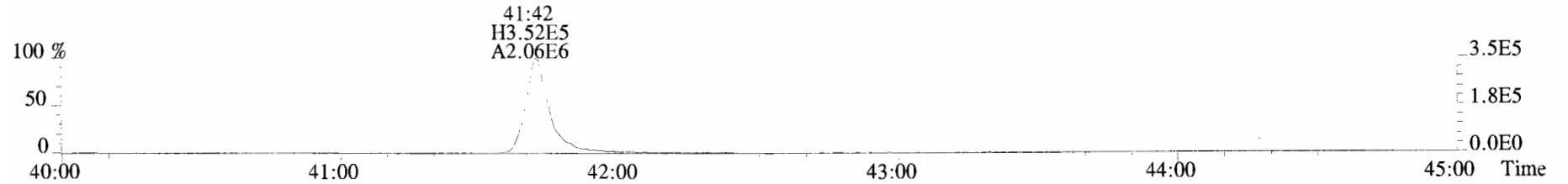
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



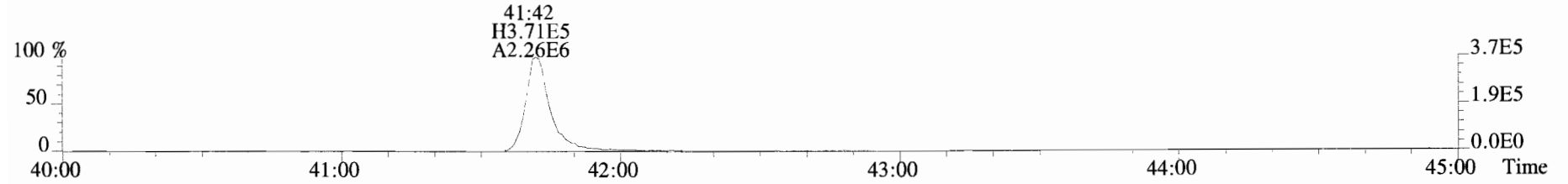
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



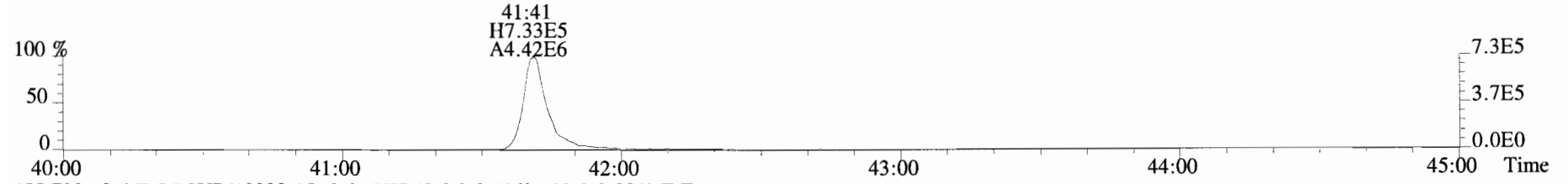
File:191009D1 #1-432 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical_Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



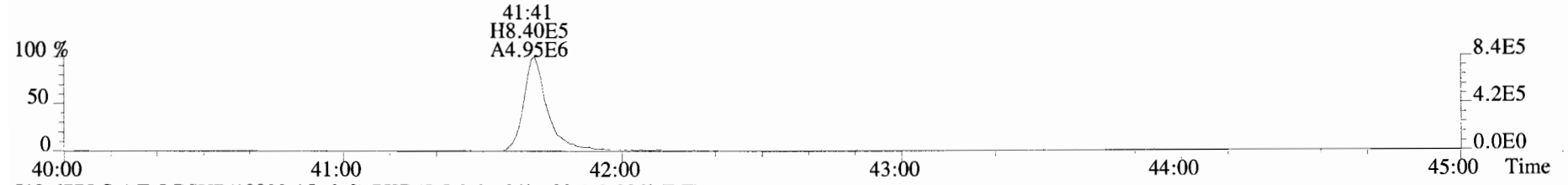
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



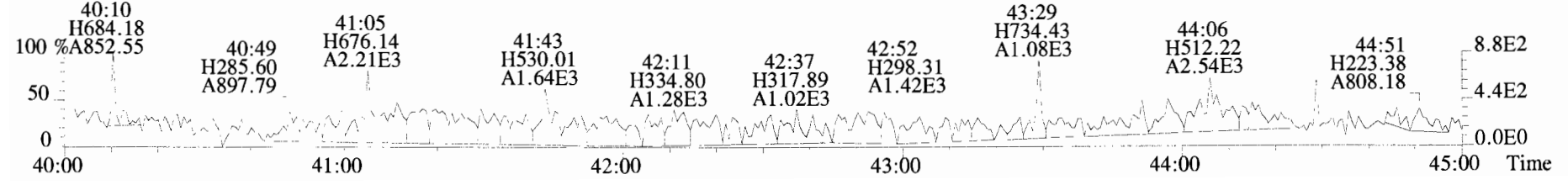
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



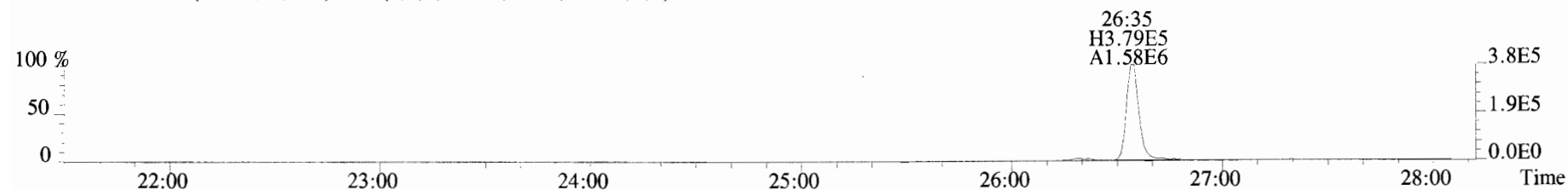
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



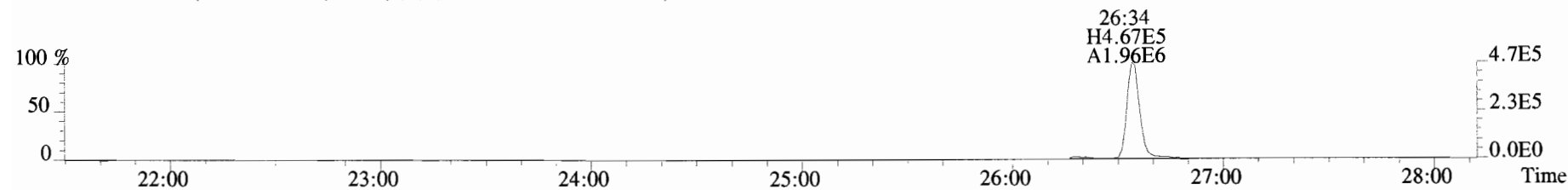
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



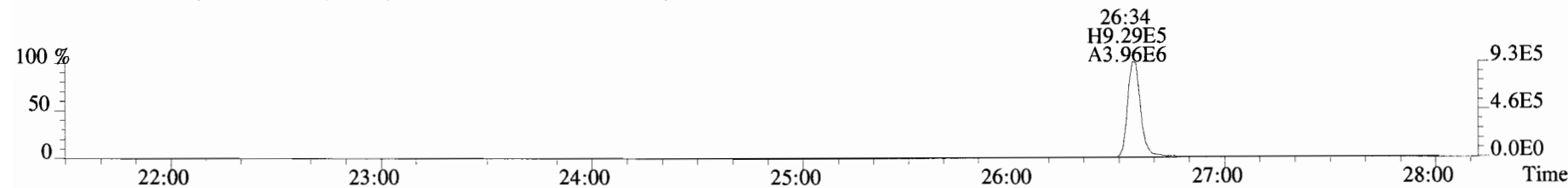
File:191009D1 #1-514 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



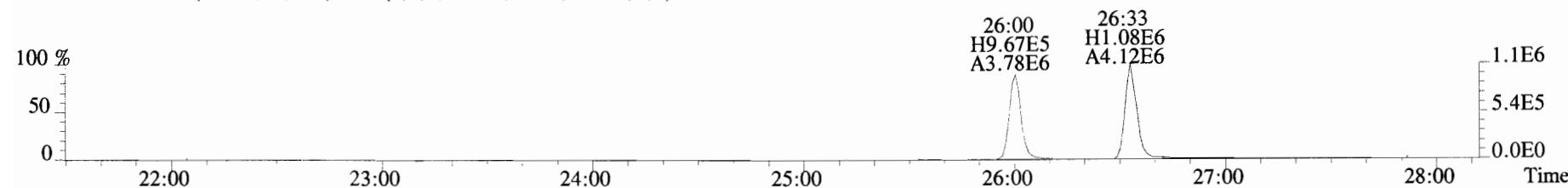
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



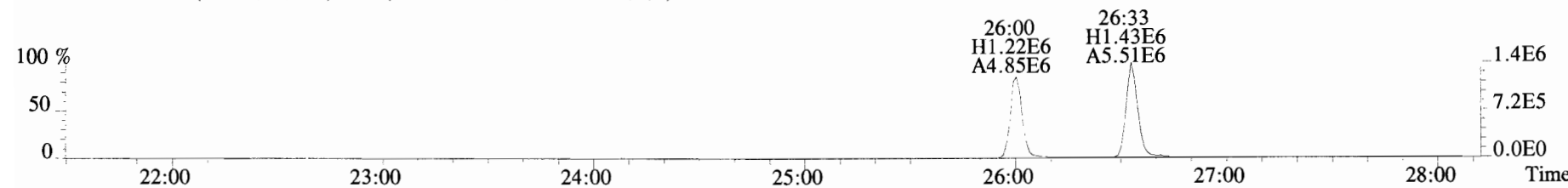
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



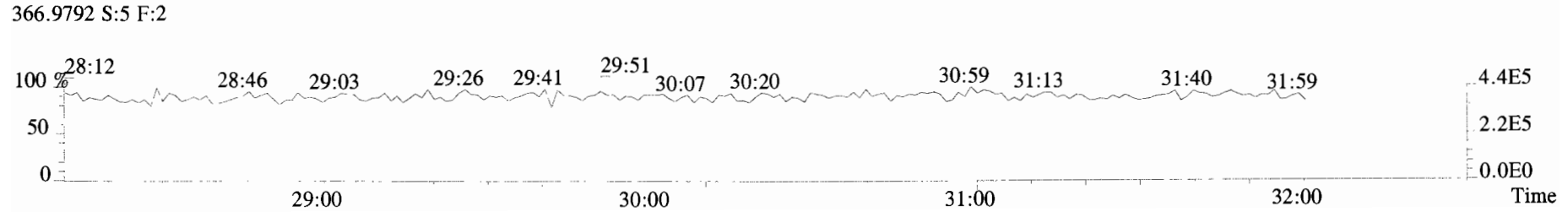
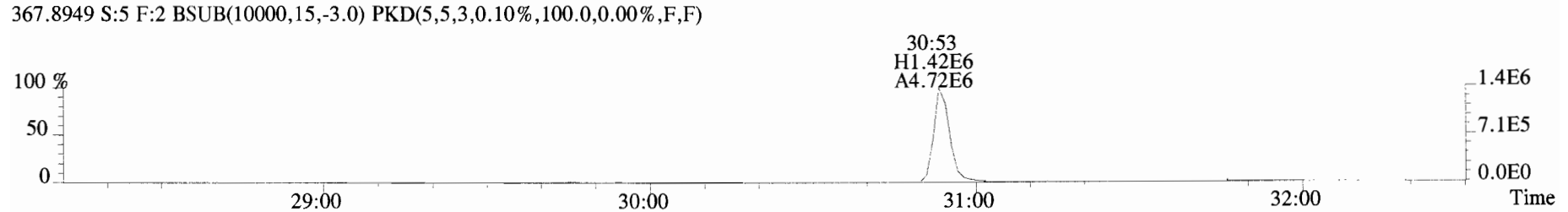
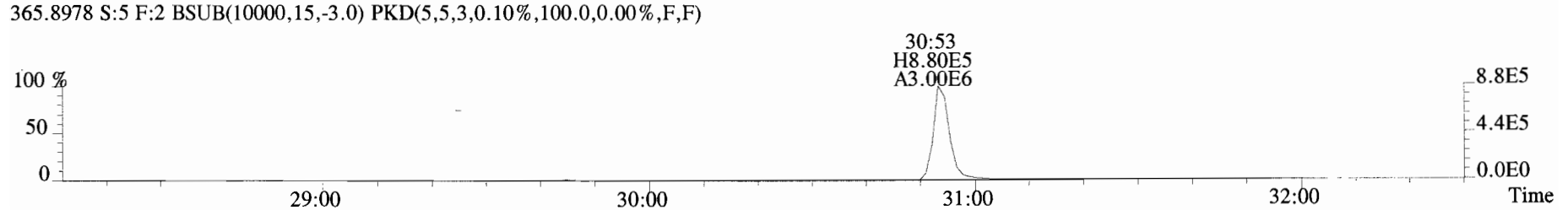
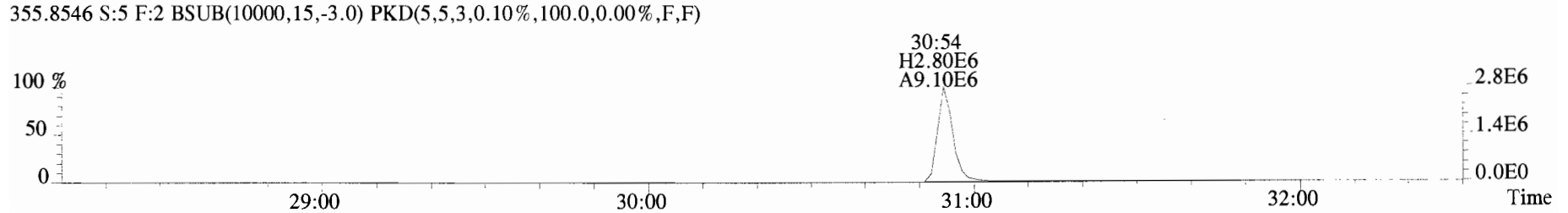
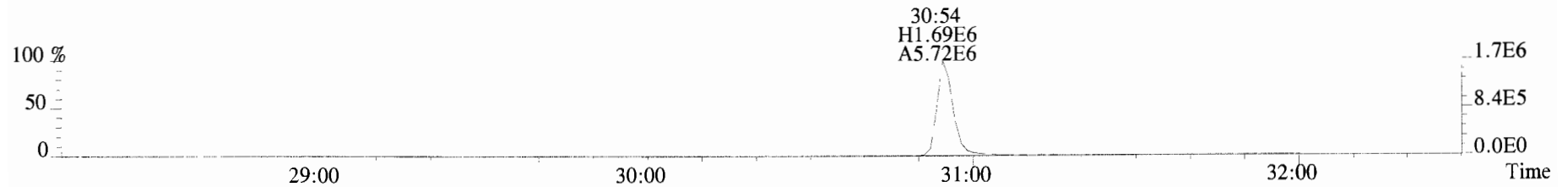
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



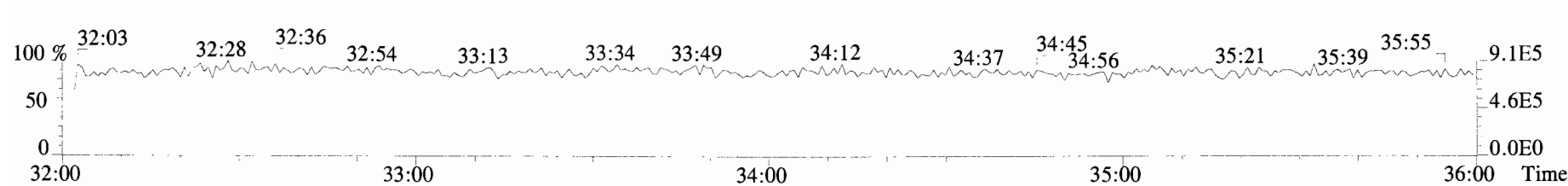
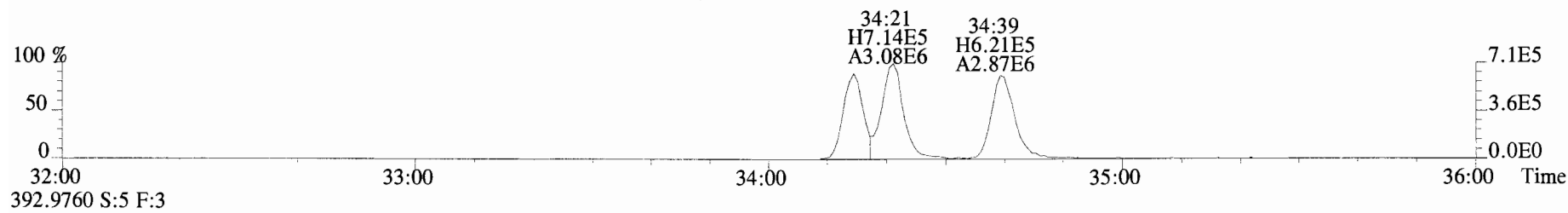
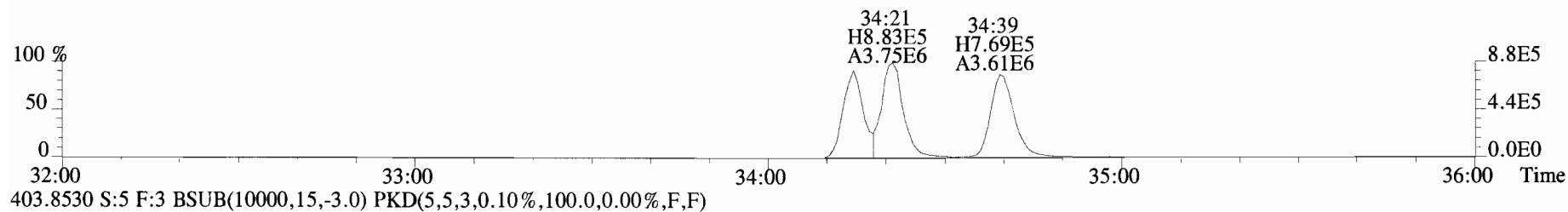
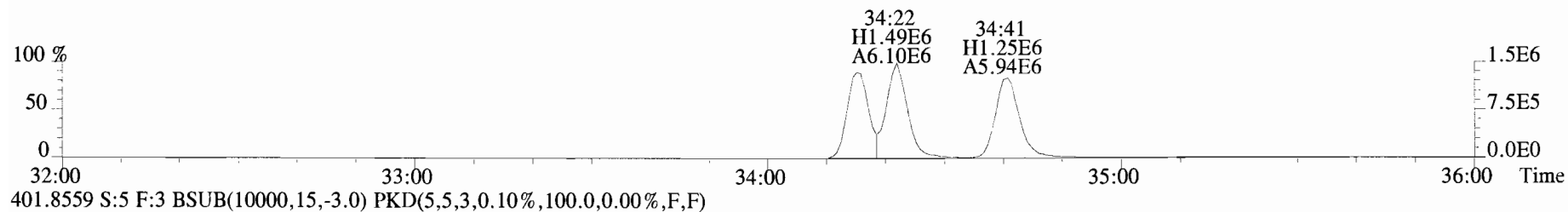
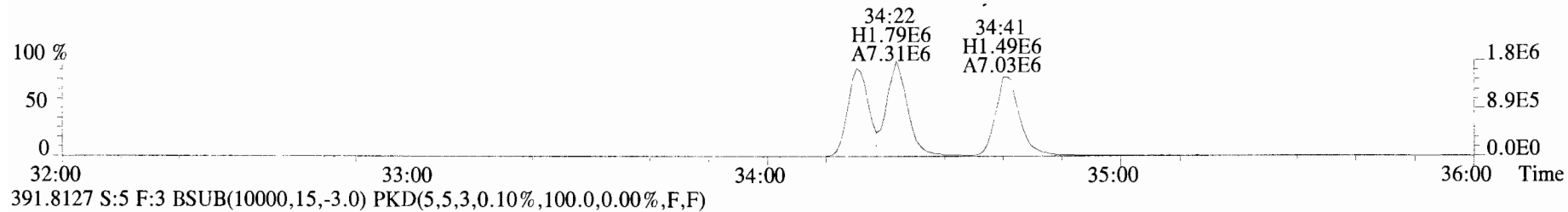
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



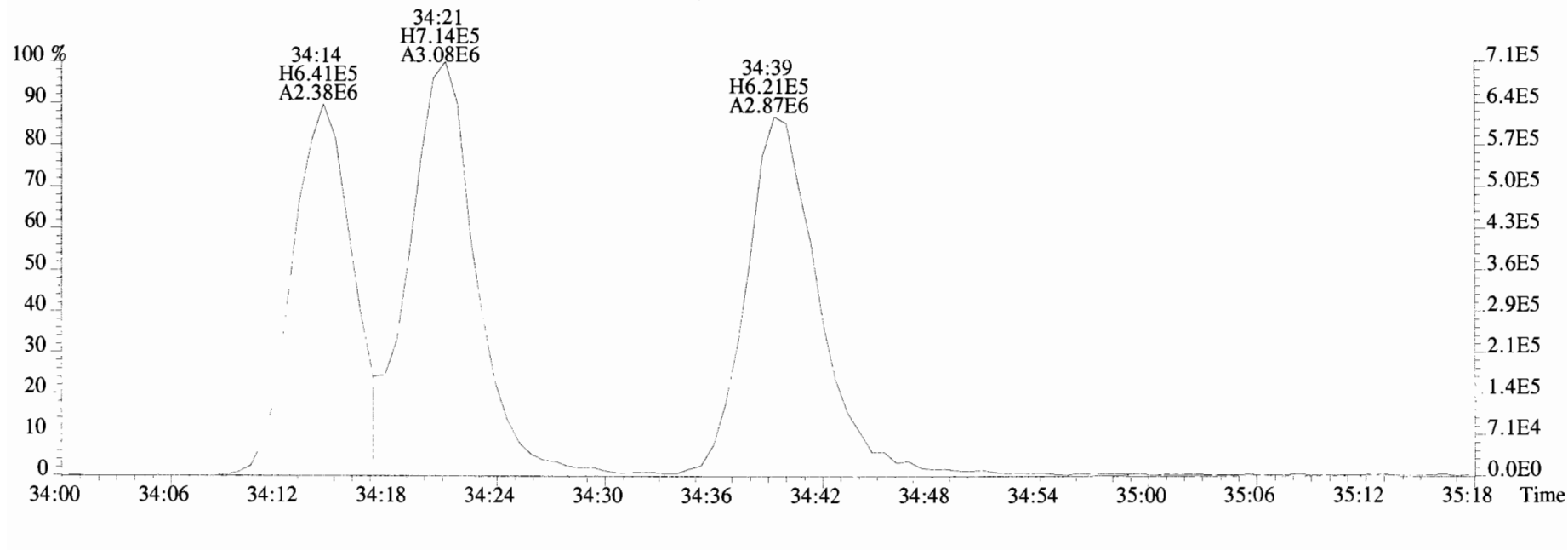
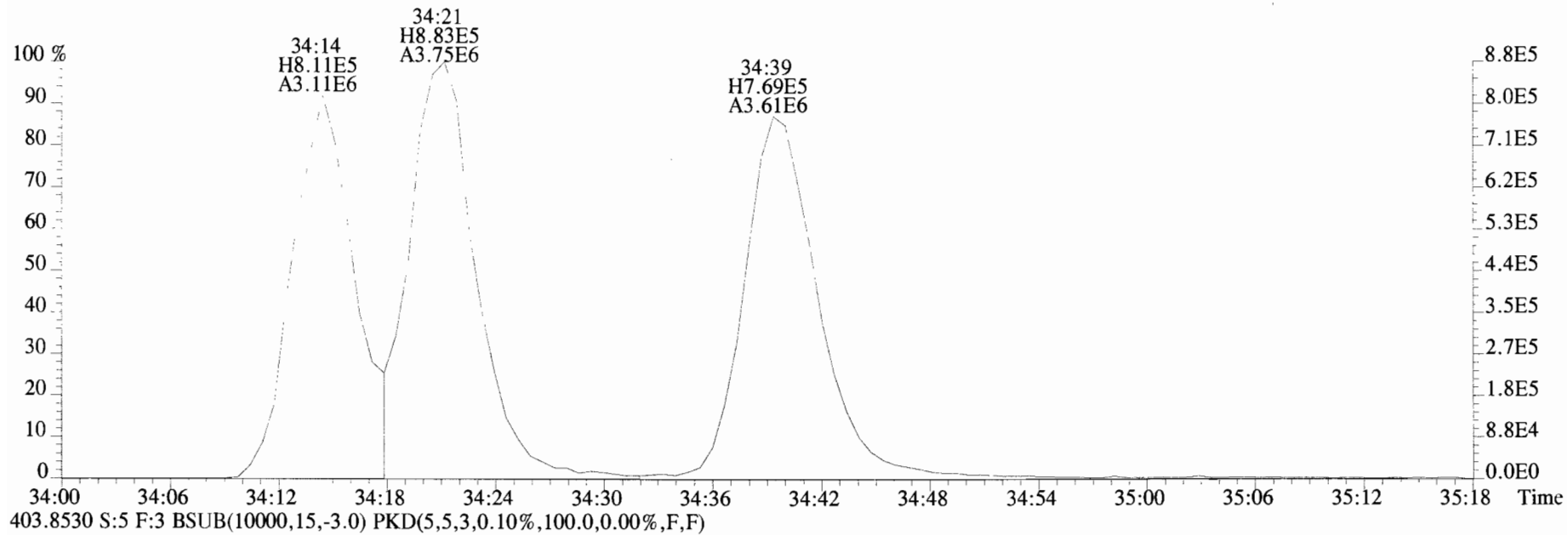
File:191009D1 #1-210 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



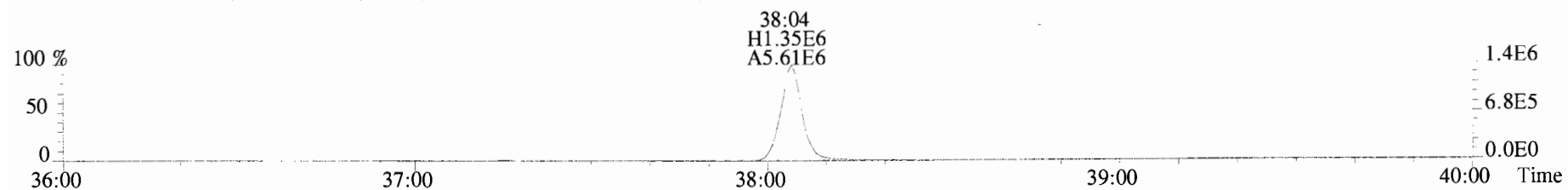
File:191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



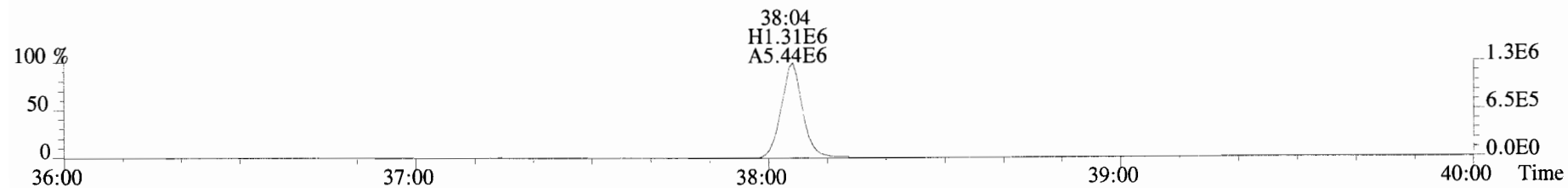
File:191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



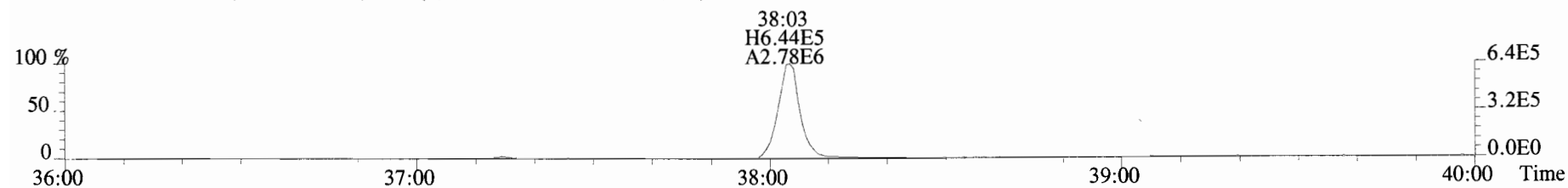
File:191009D1 #1-356 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



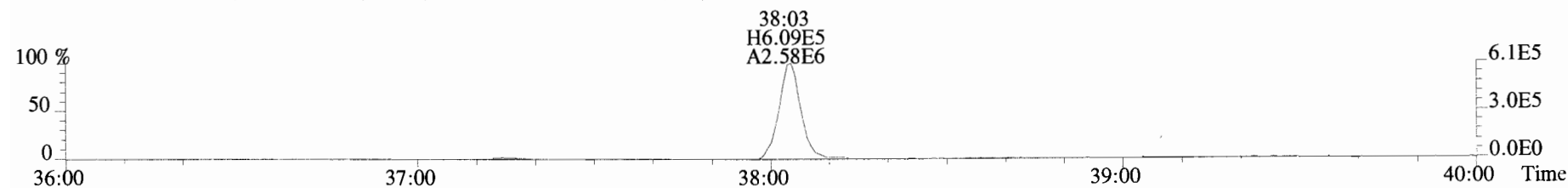
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



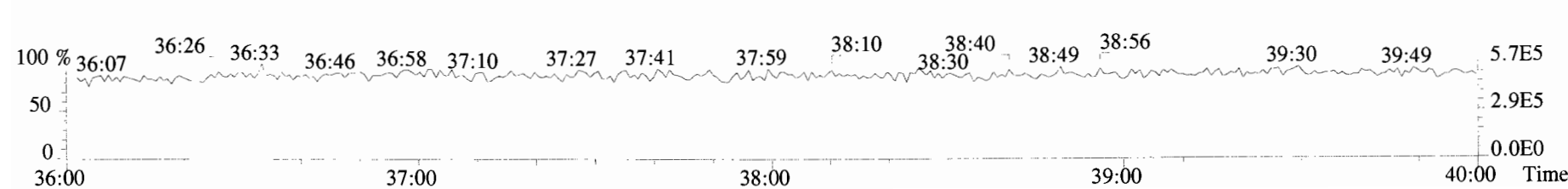
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



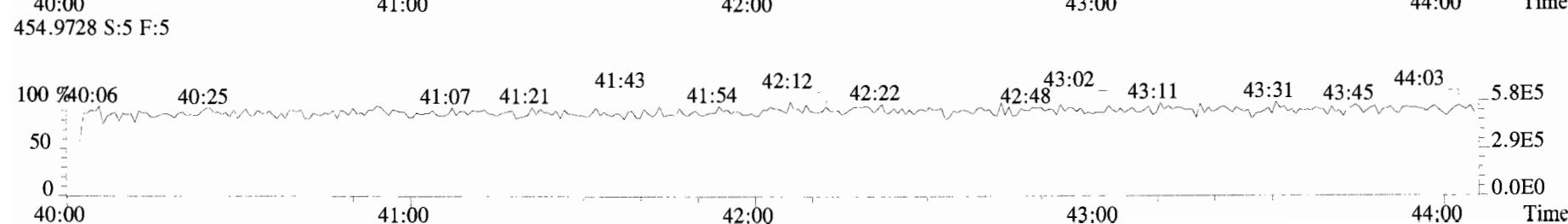
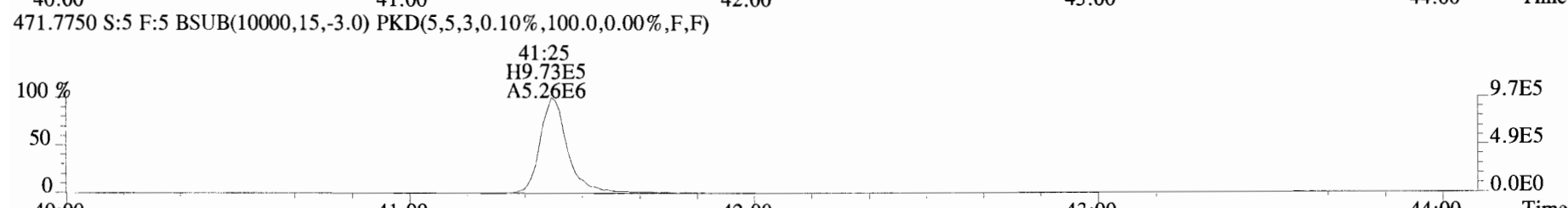
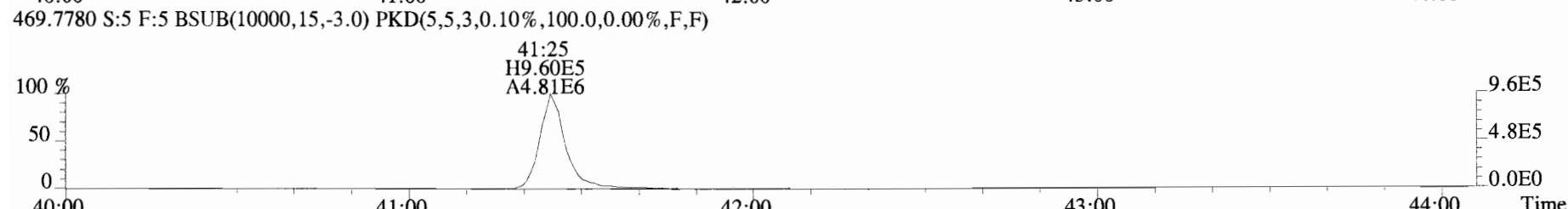
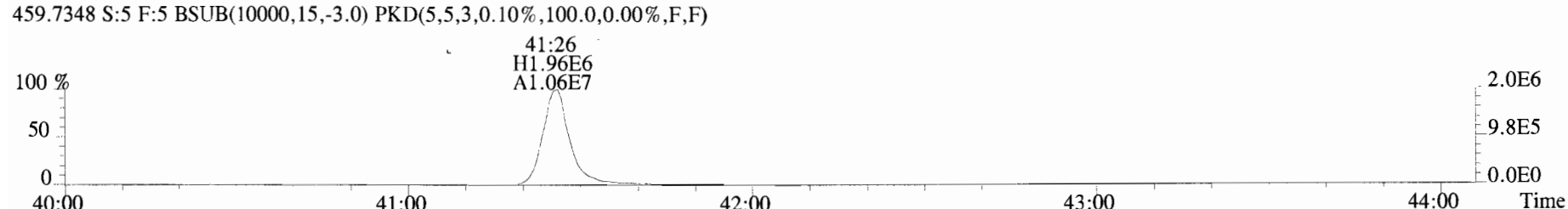
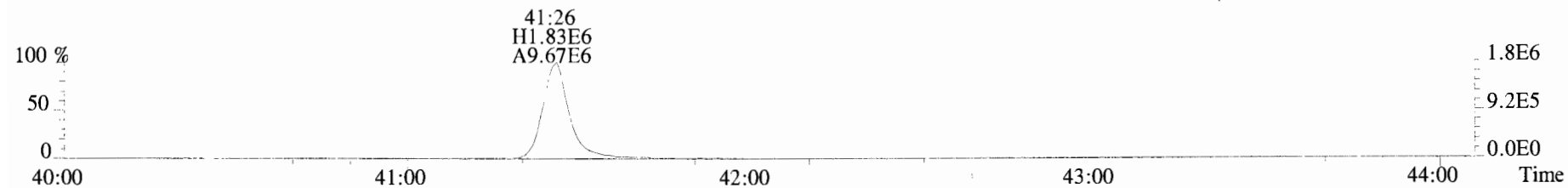
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



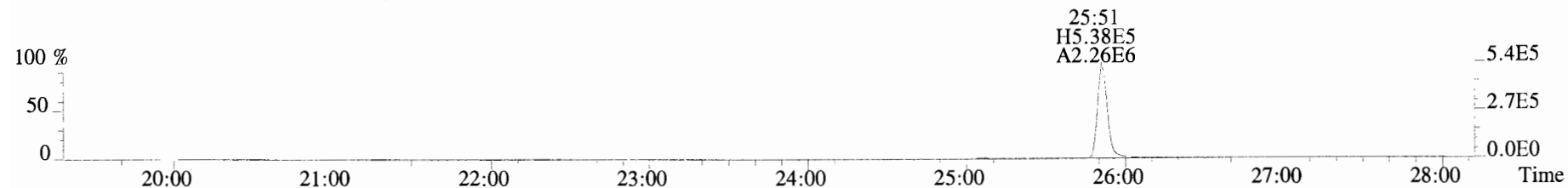
454.9728 S:5 F:4



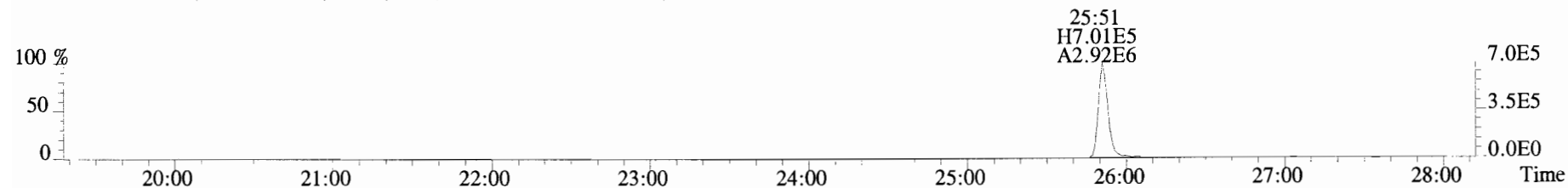
File:191009D1 #1-431 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



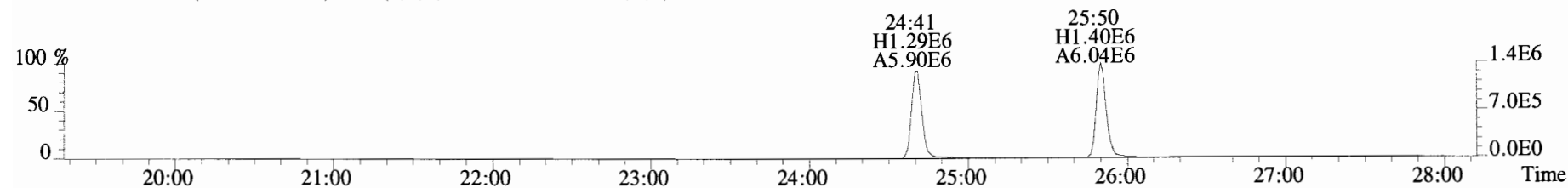
File:191009D1 #1-514 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



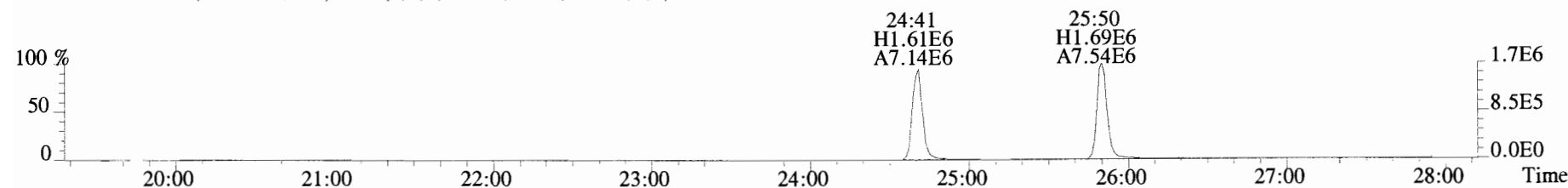
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



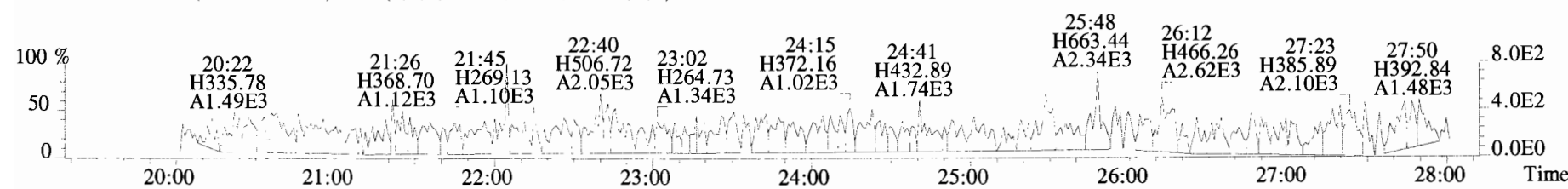
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



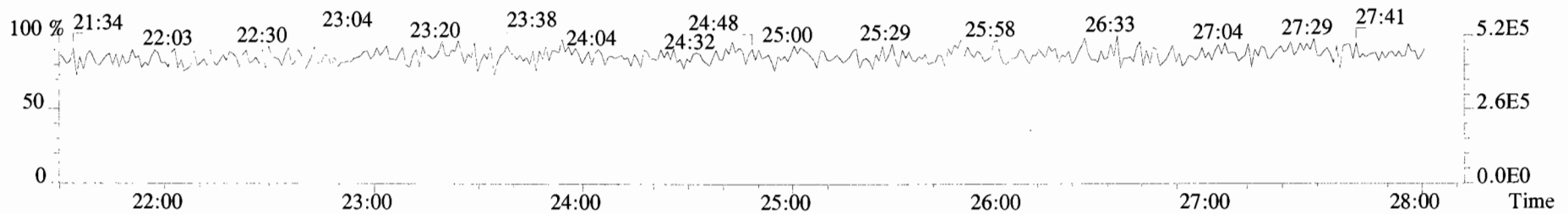
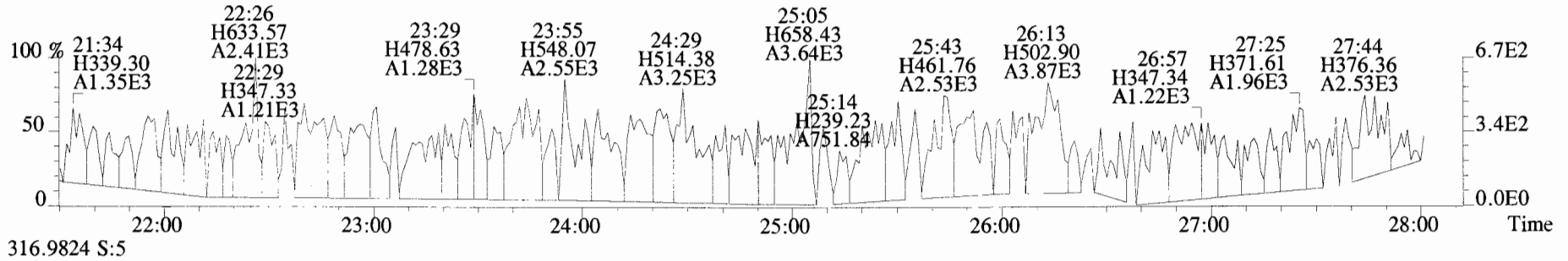
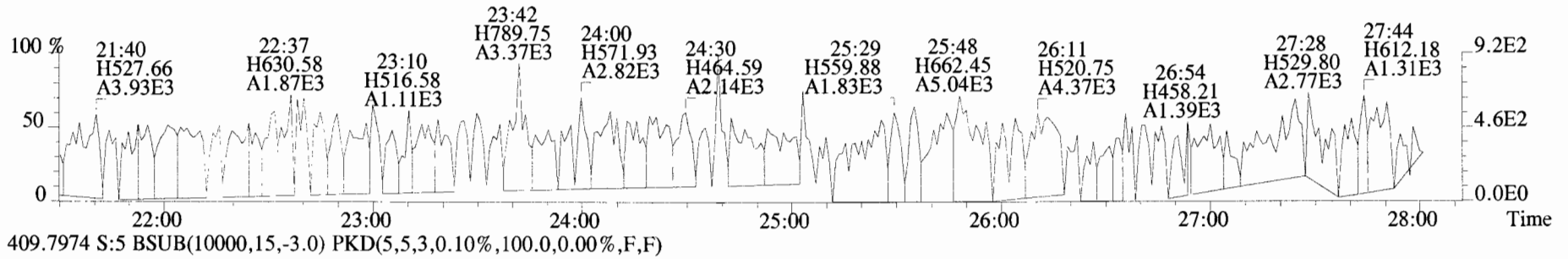
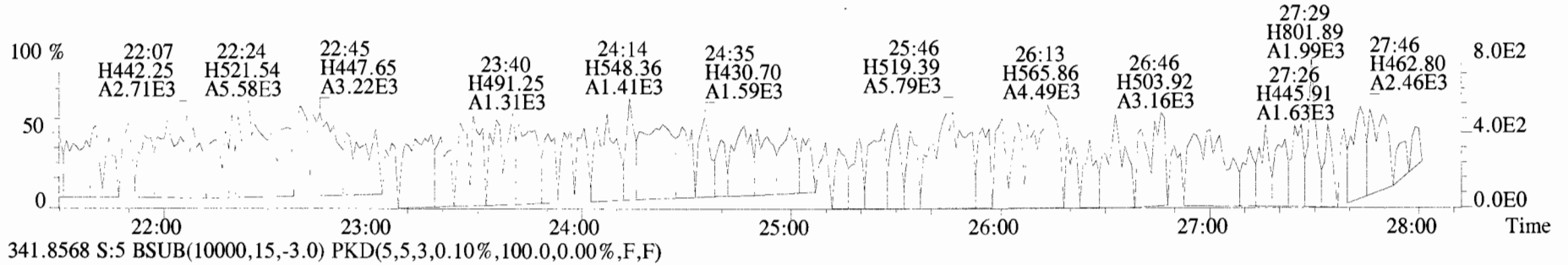
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



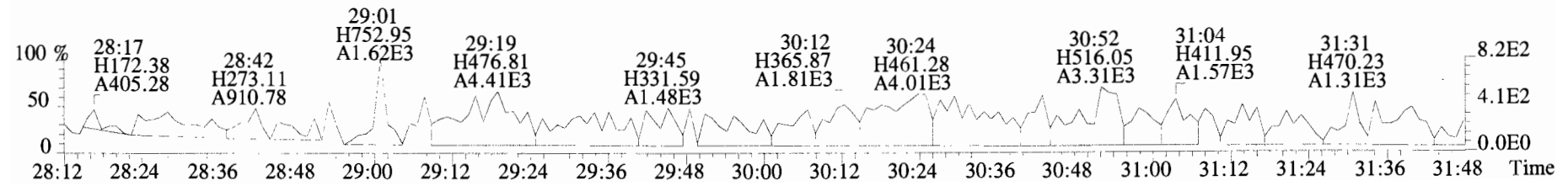
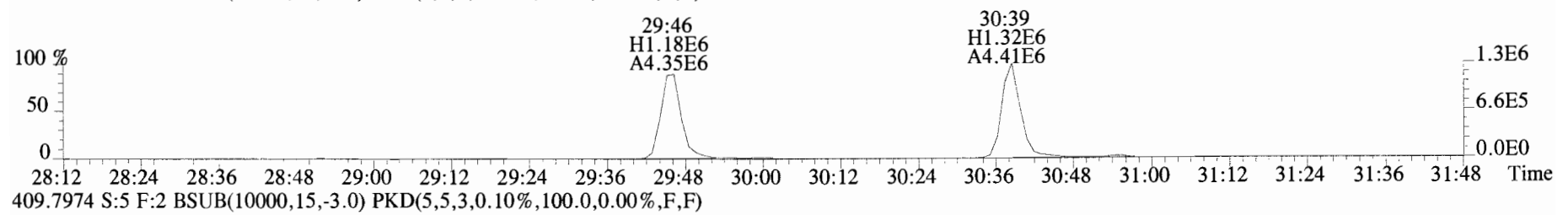
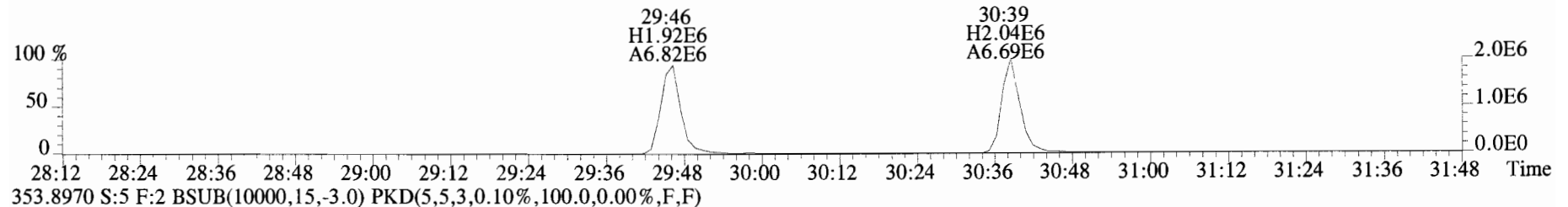
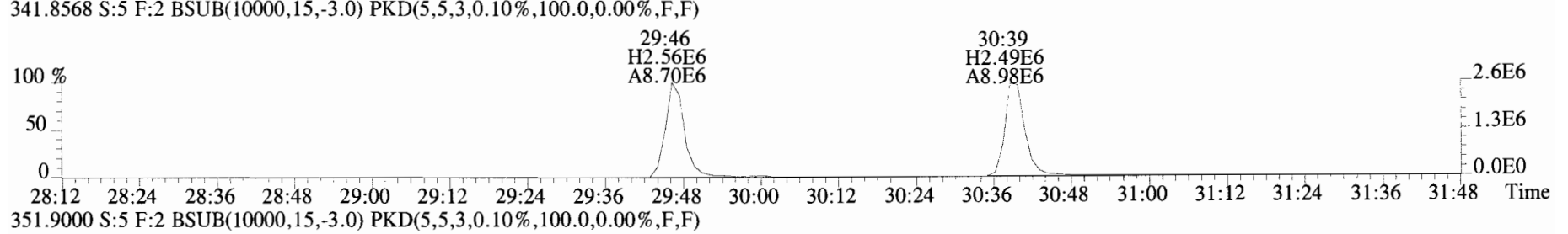
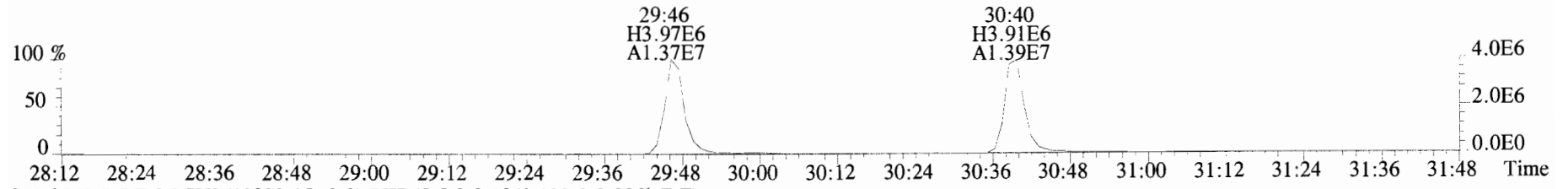
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



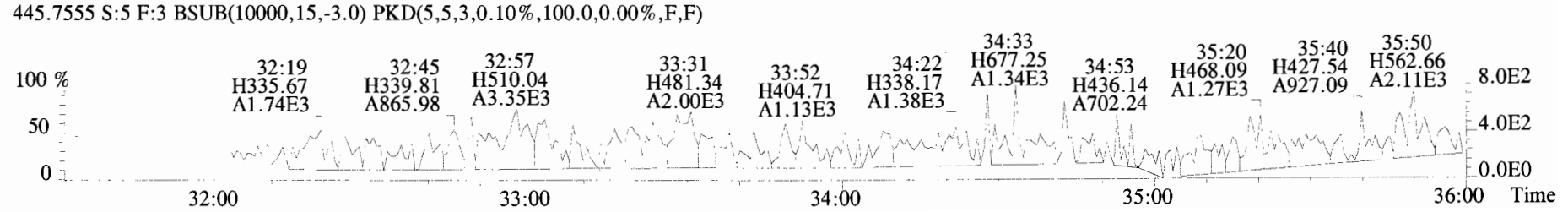
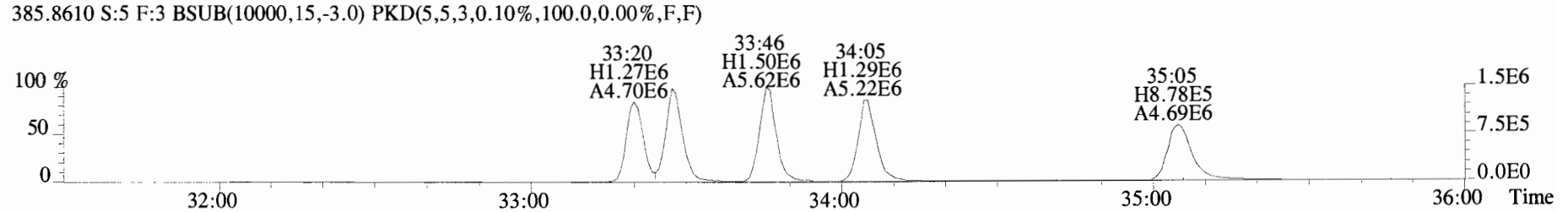
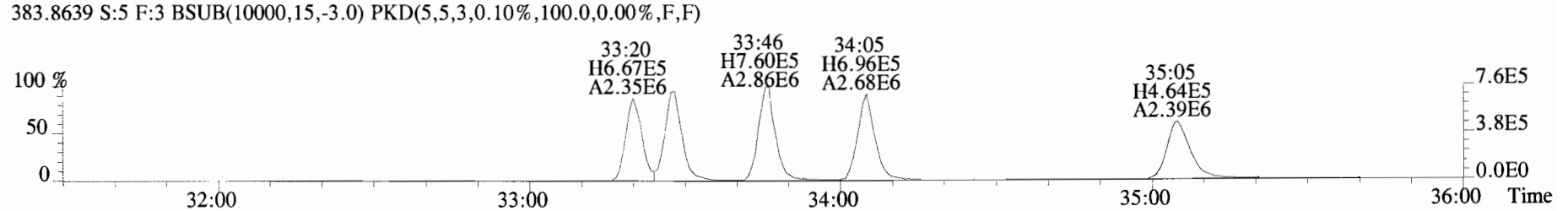
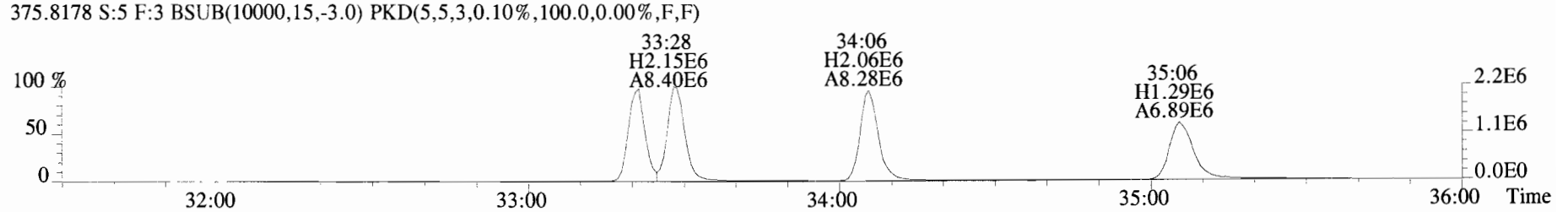
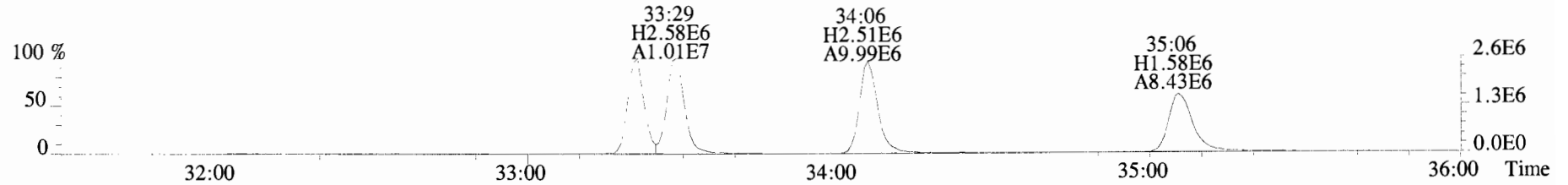
File:191009D1 #1-514 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



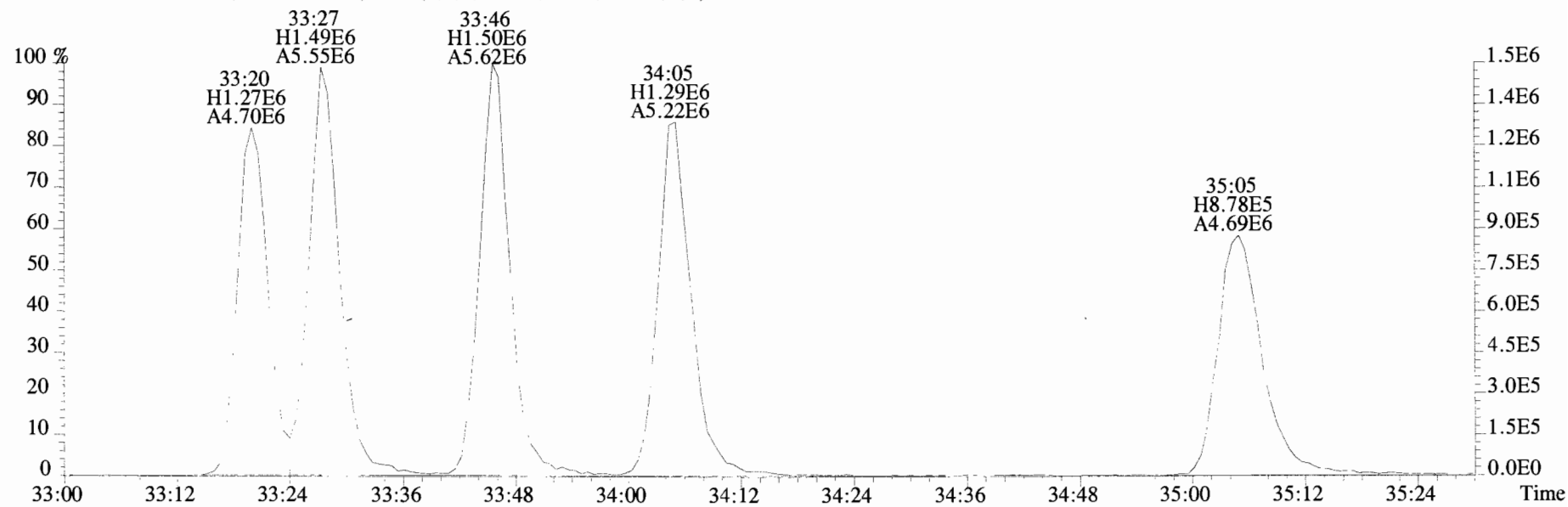
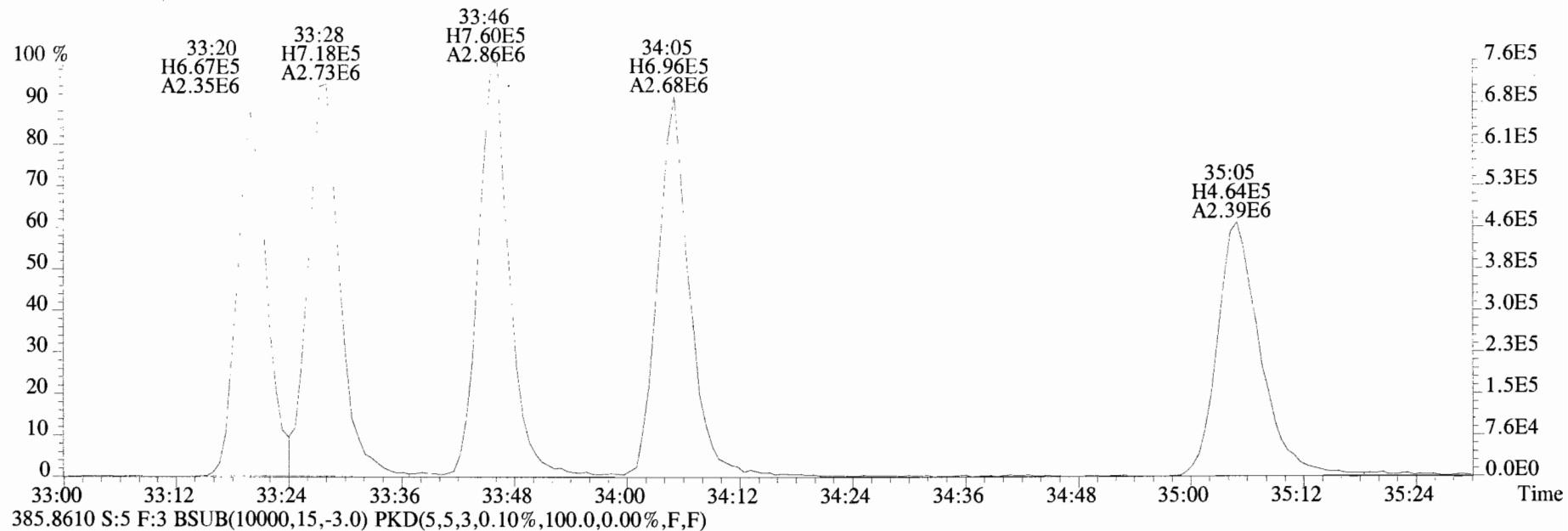
File:191009D1 #1-210 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



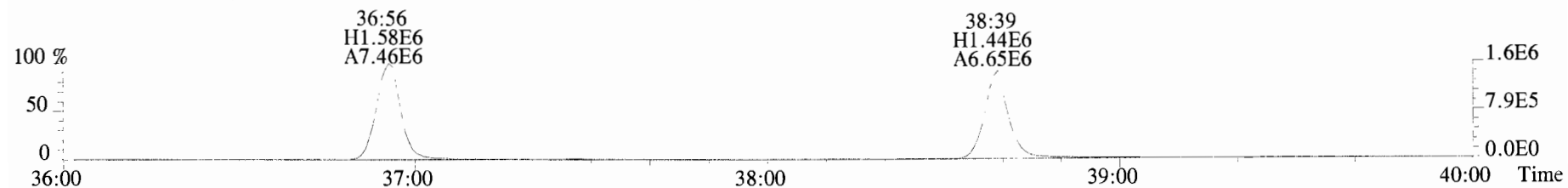
File:191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



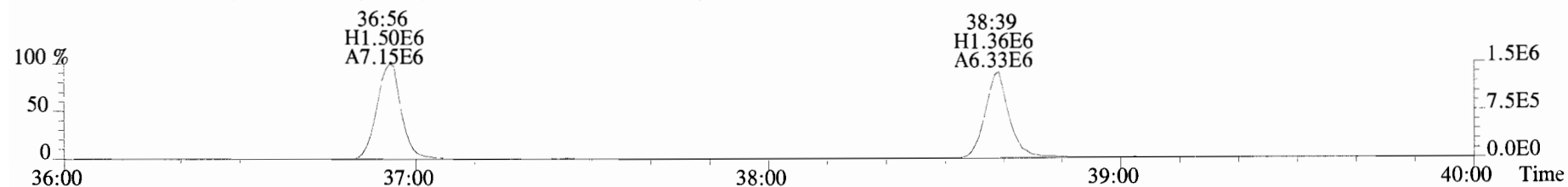
File: 191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory VG7 Text: ST191009D1-5 1613 CS4 19C2205 Exp: OCDD_DB5
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



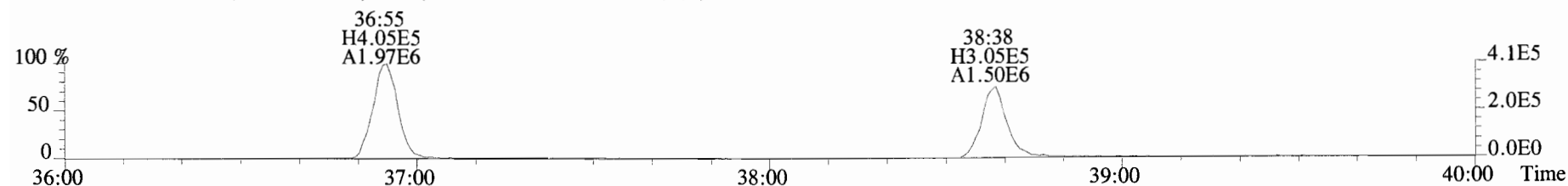
File:191009D1 #1-356 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



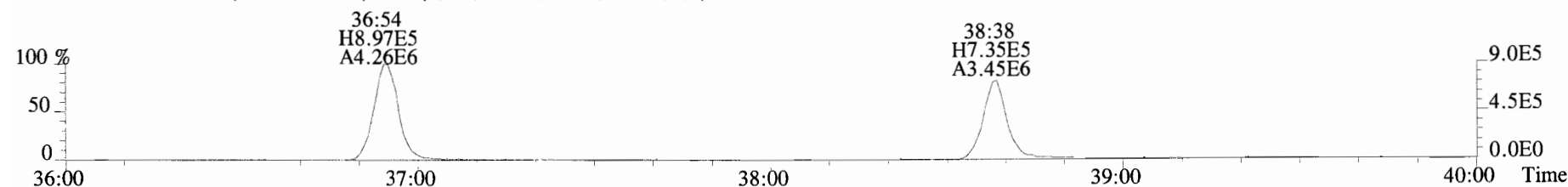
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



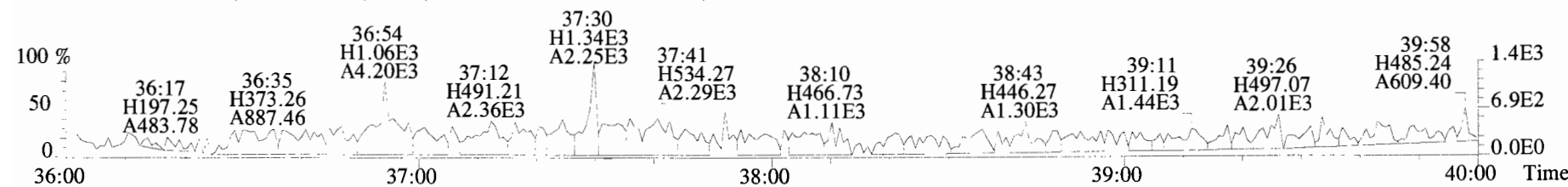
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



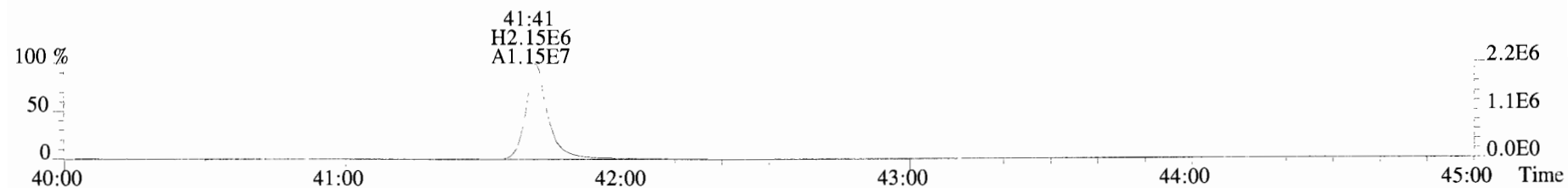
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



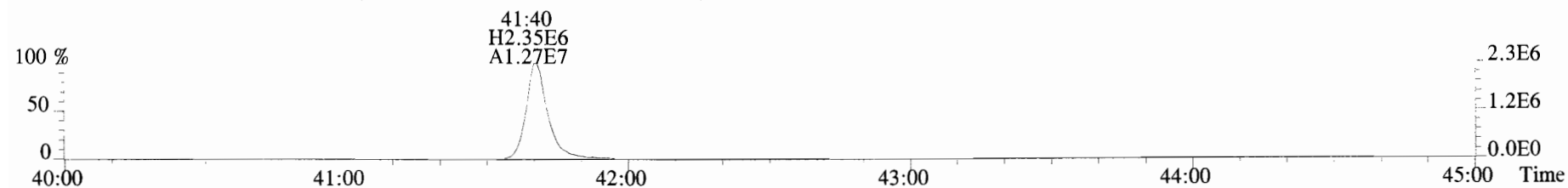
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



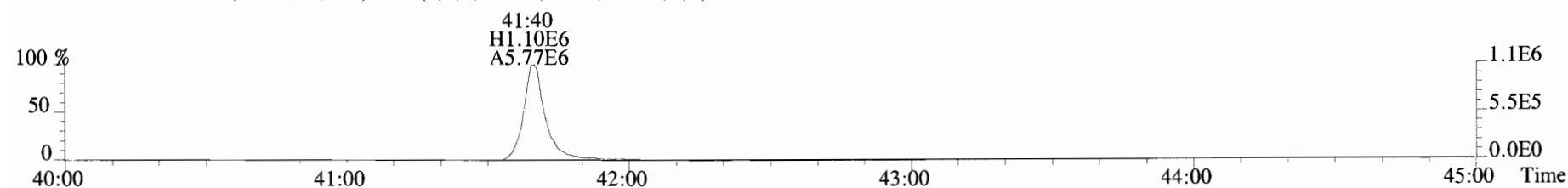
File:191009D1 #1-431 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
 441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



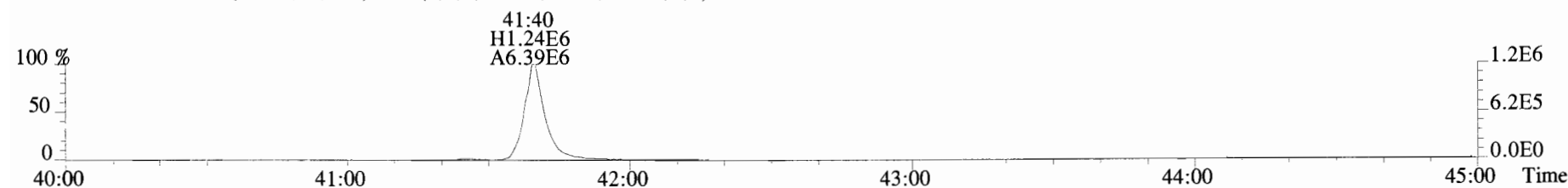
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



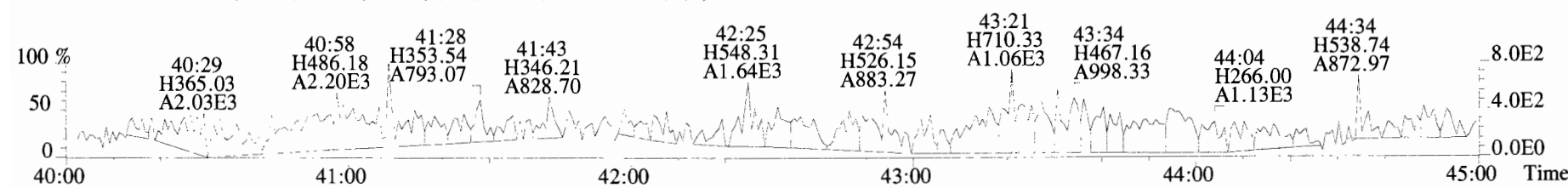
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



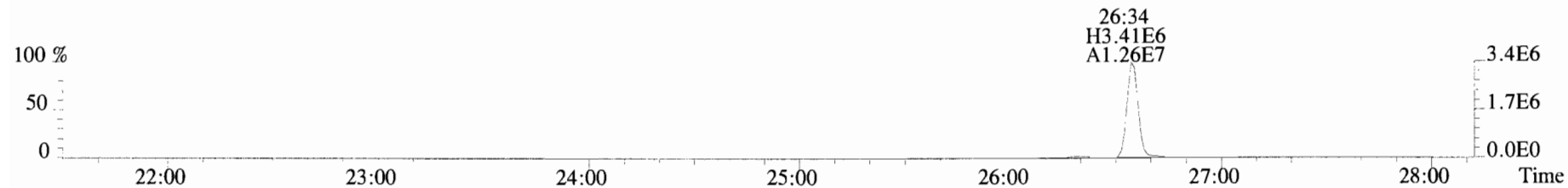
455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



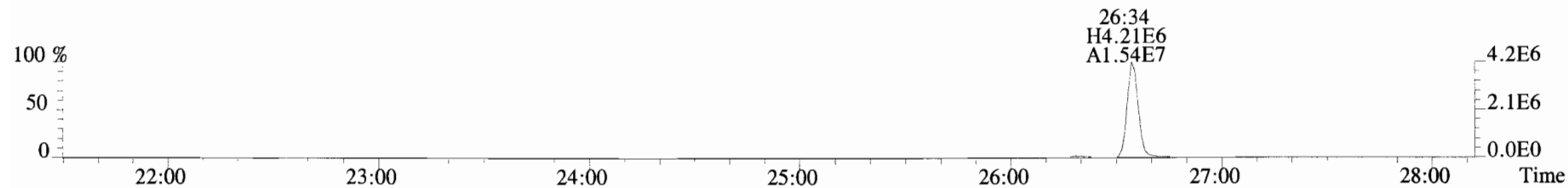
513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



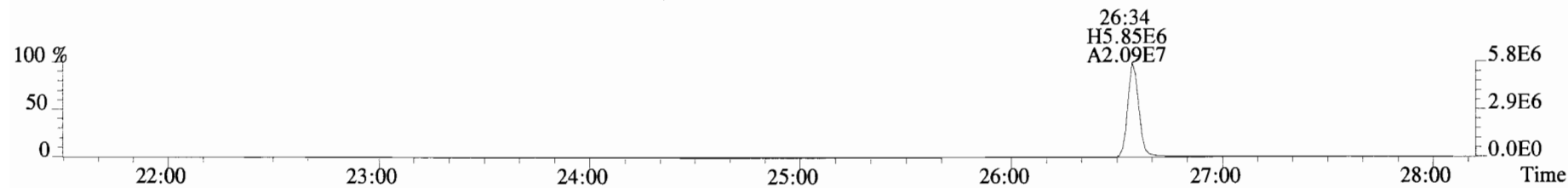
File:191009D1 #1-513 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



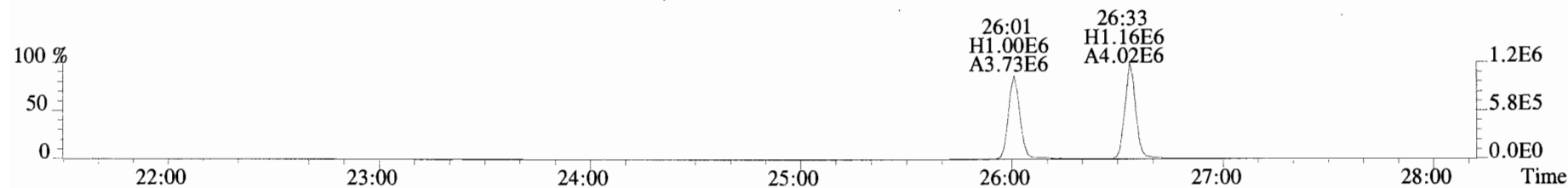
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



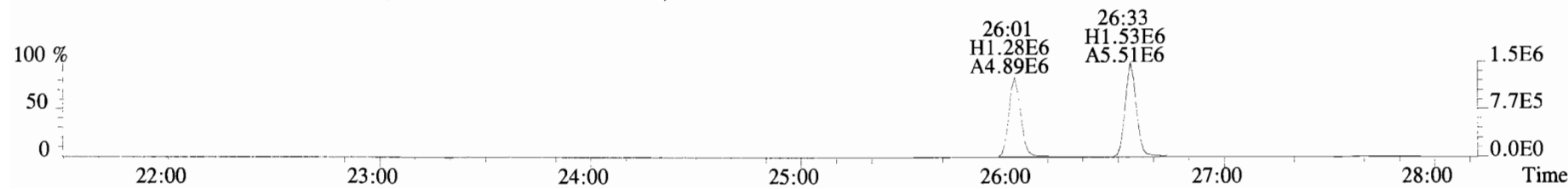
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



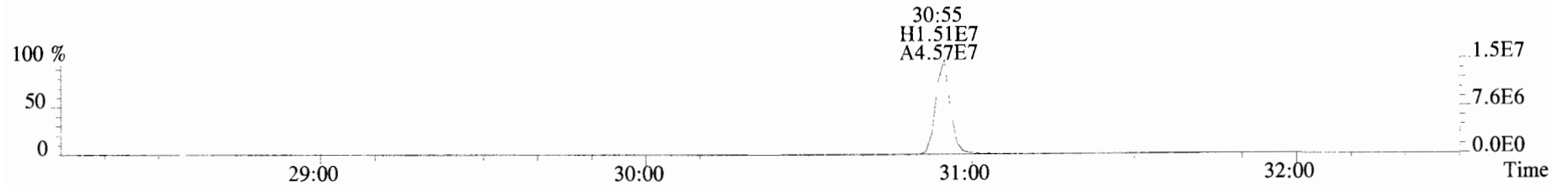
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



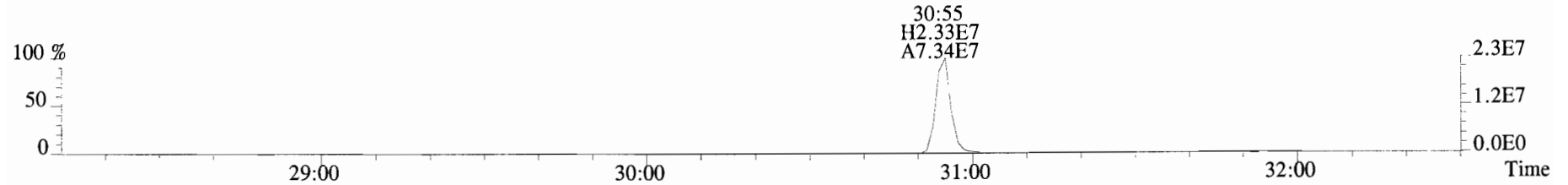
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



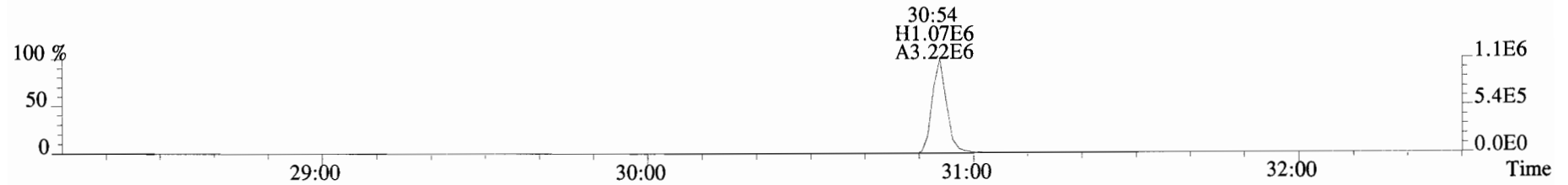
File:191009D1 #1-211 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



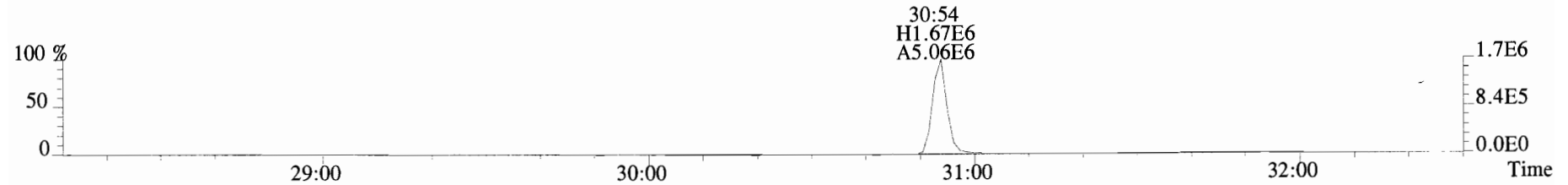
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



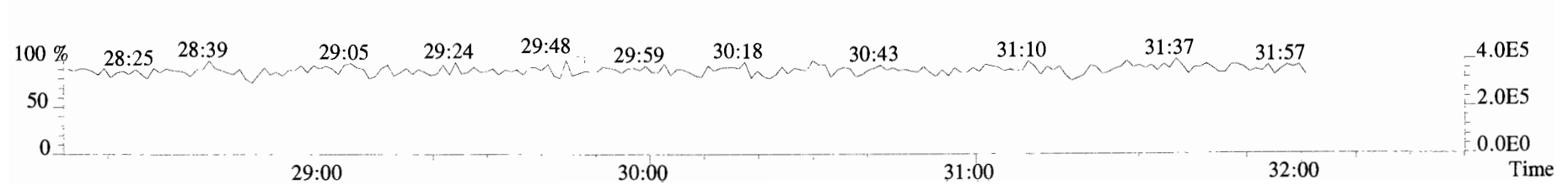
365.8978 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



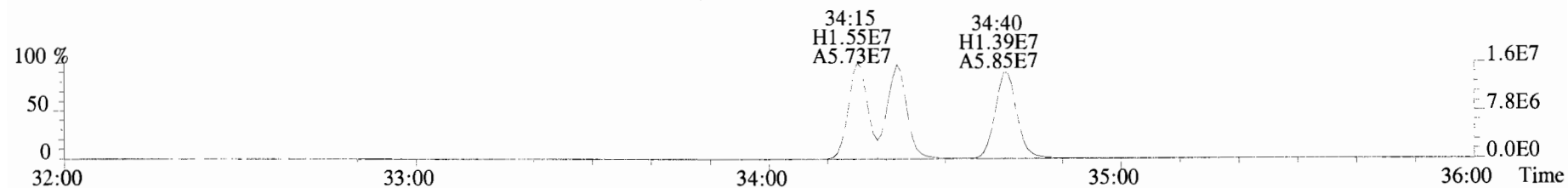
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



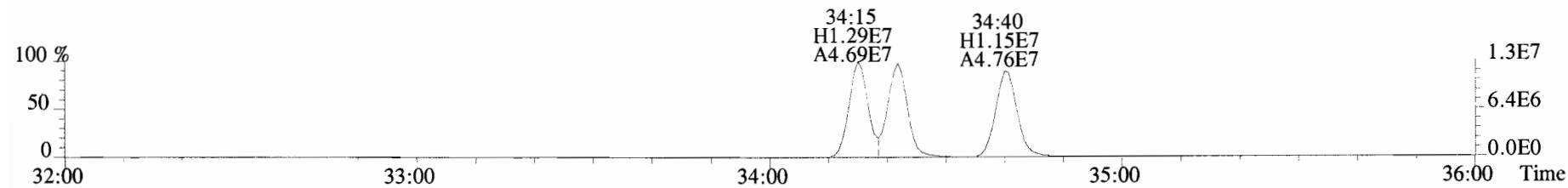
366.9792 S:6 F:2



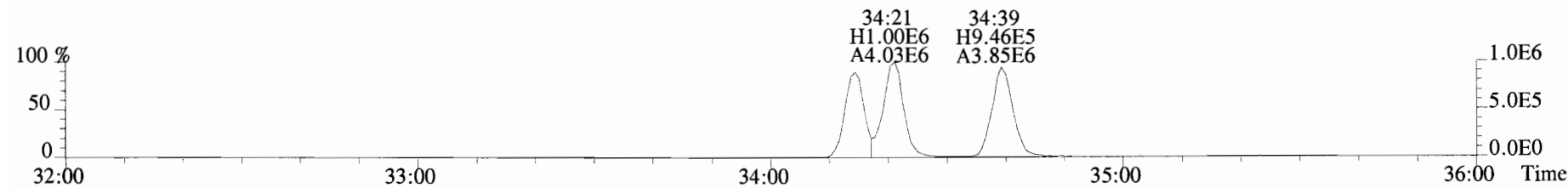
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



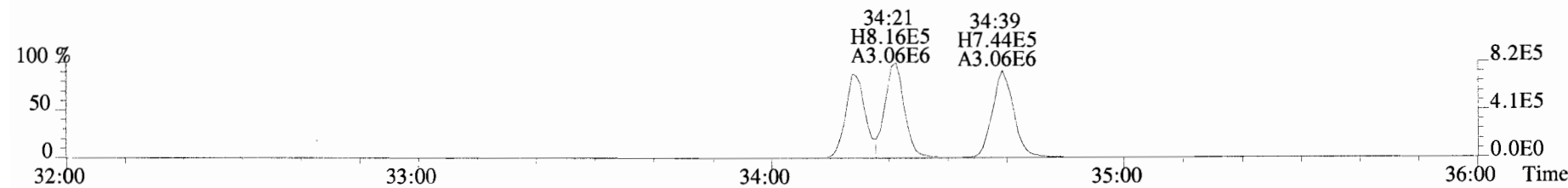
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



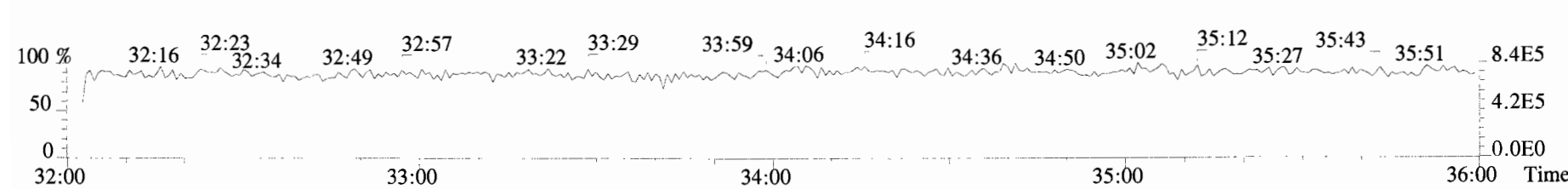
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



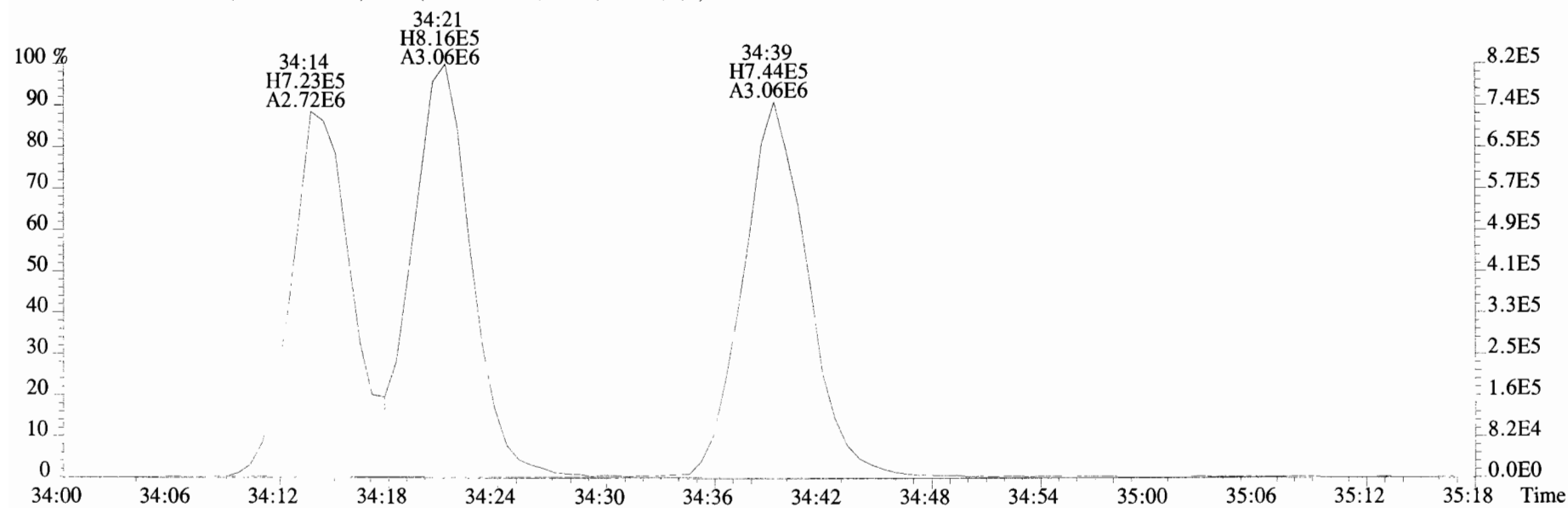
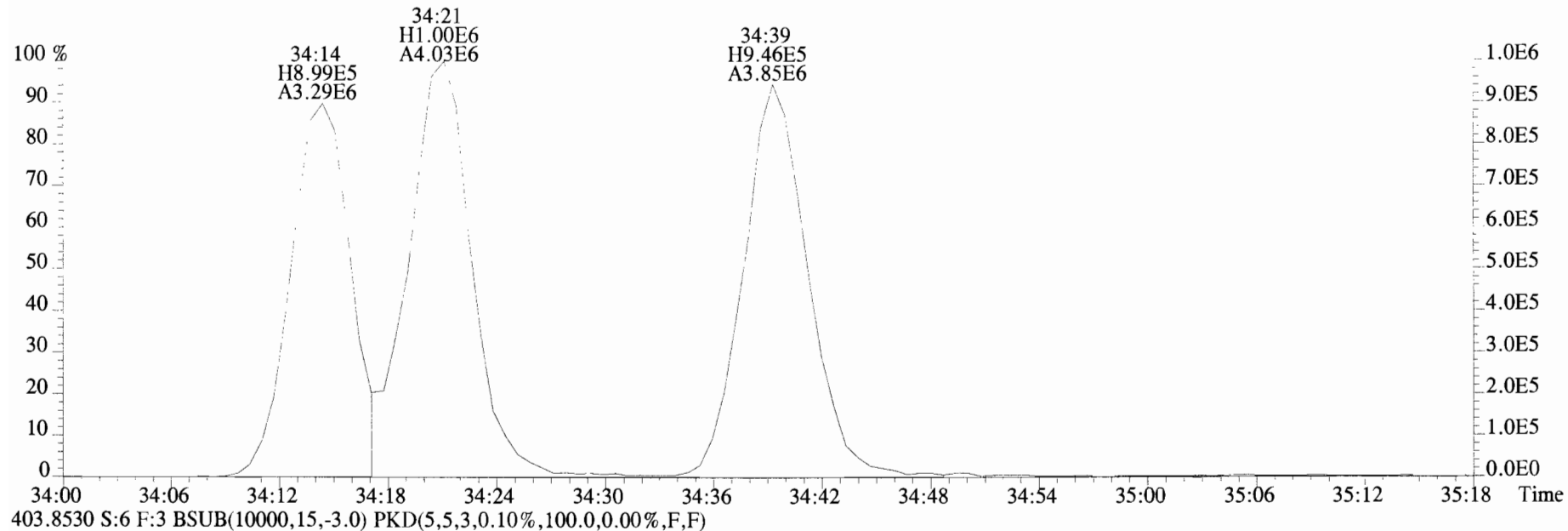
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



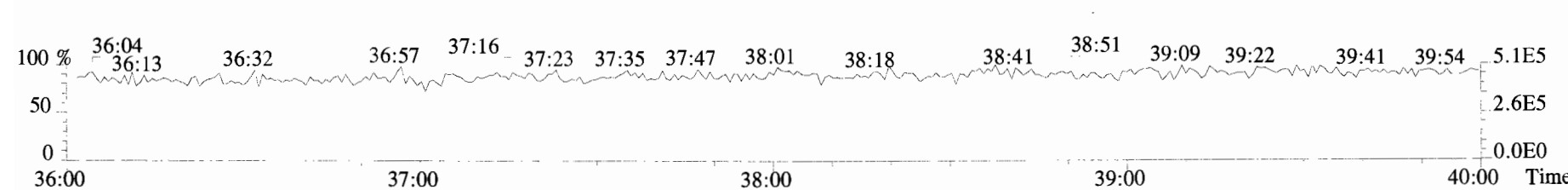
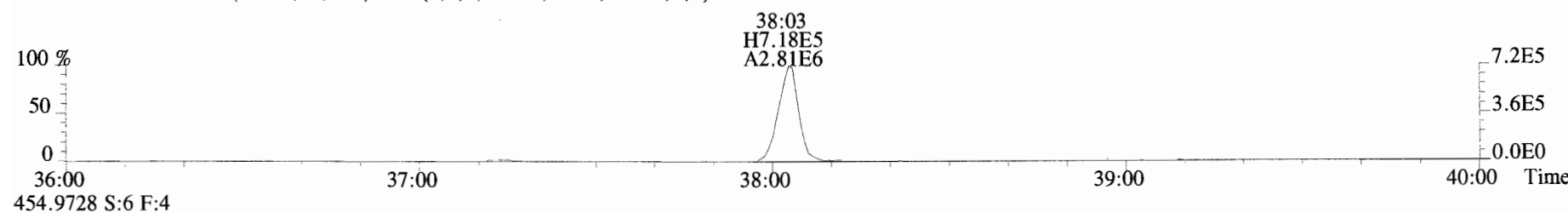
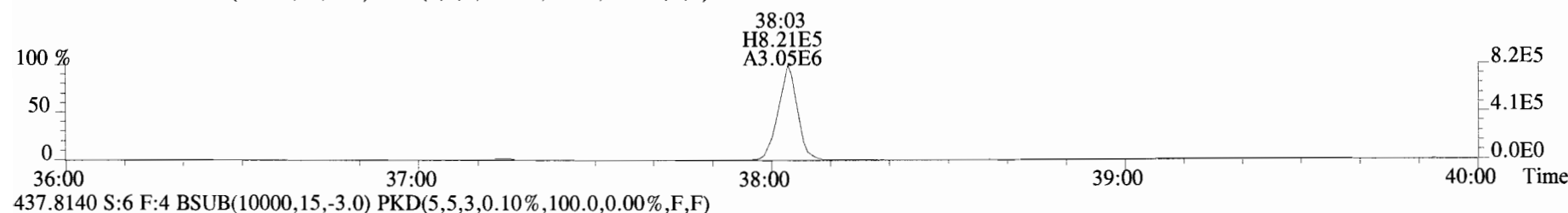
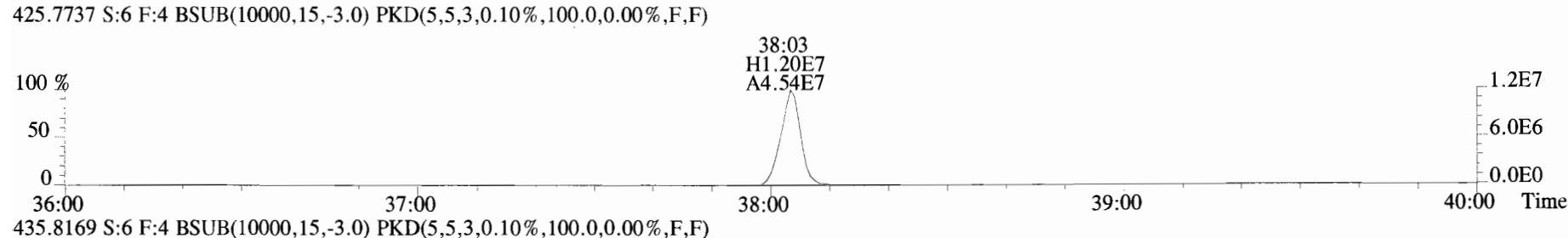
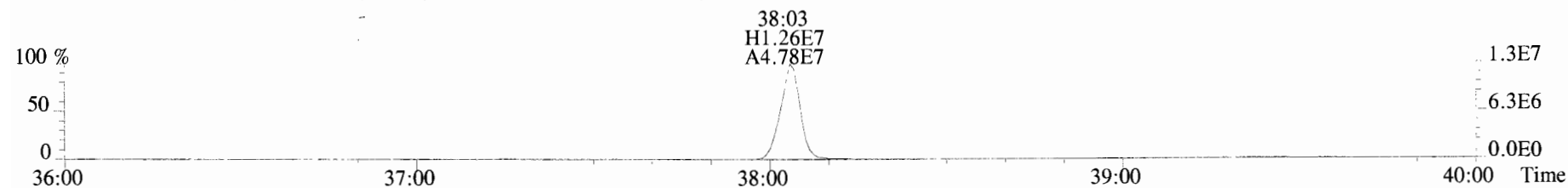
392.9760 S:6 F:3



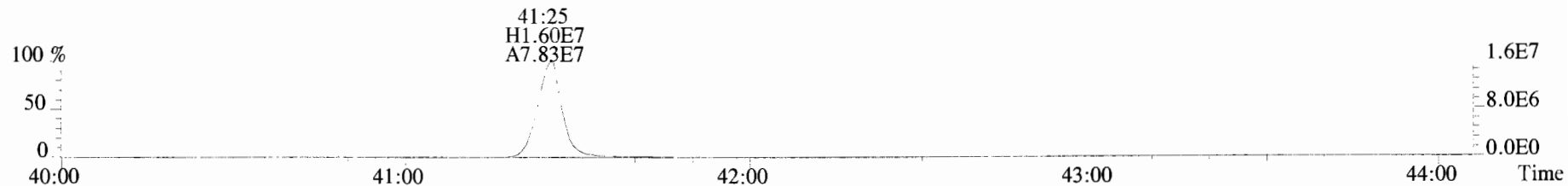
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



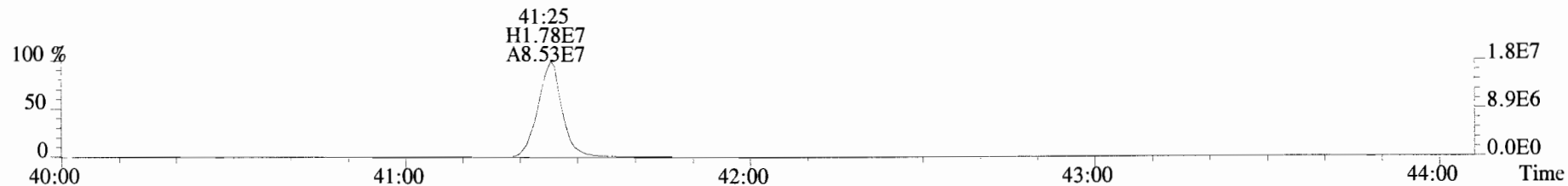
File:191009D1 #1-356 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



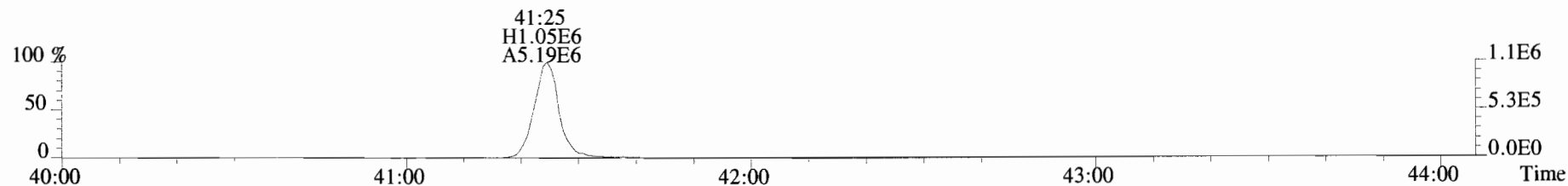
File:191009D1 #1-431 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



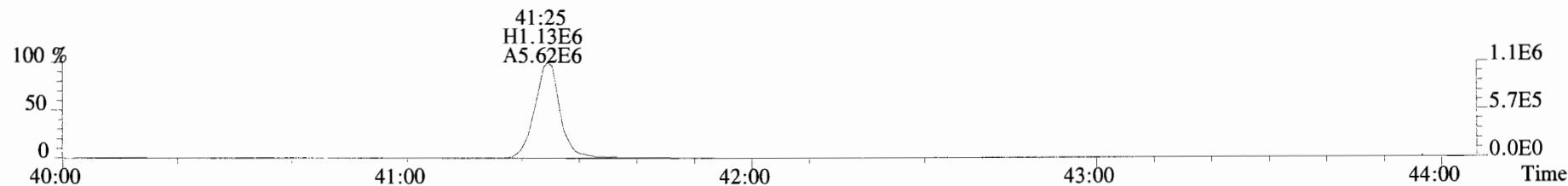
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



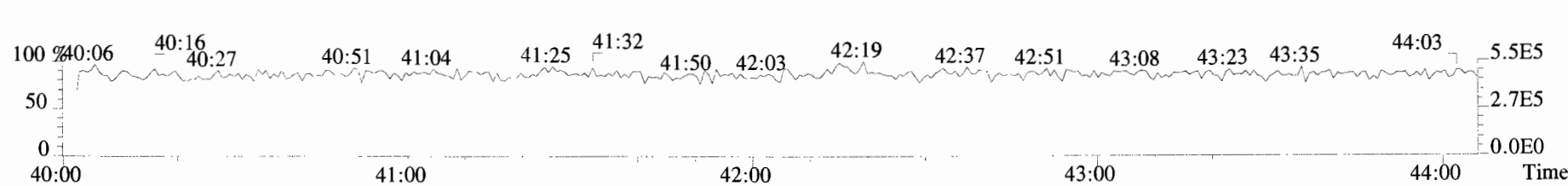
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



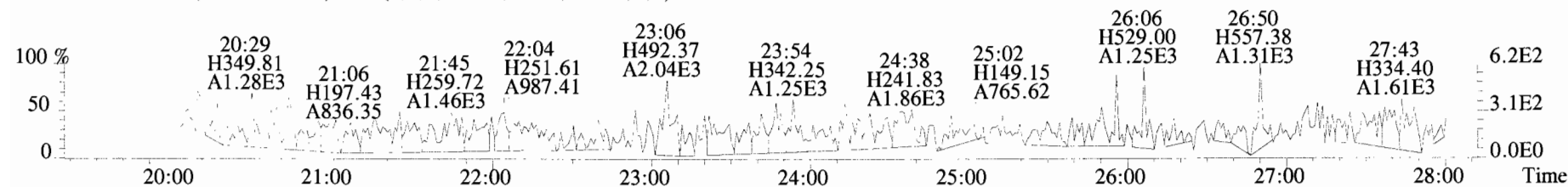
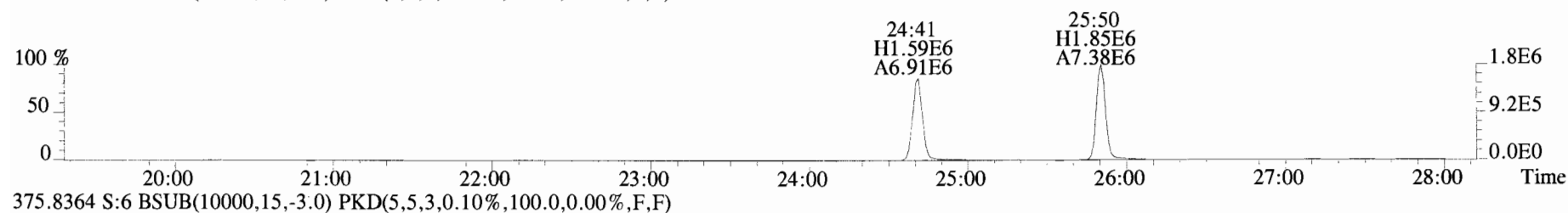
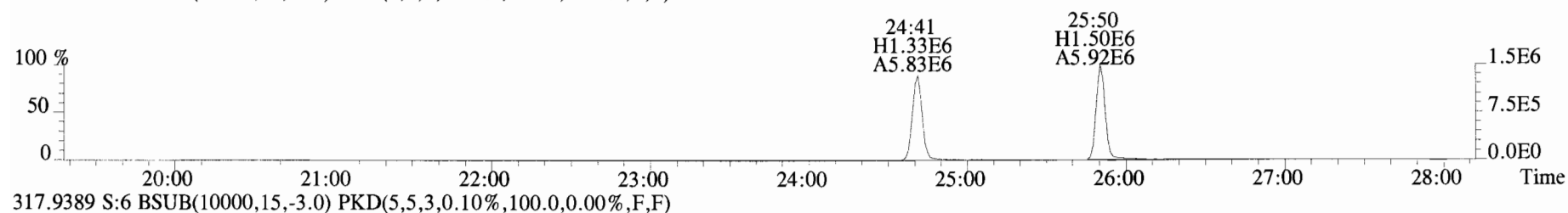
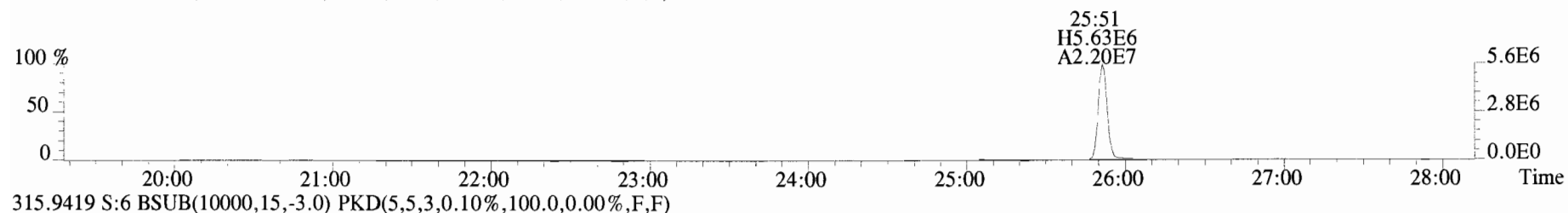
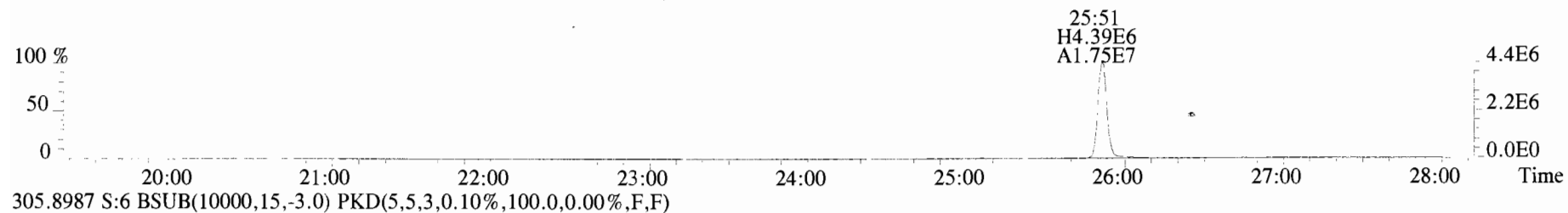
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



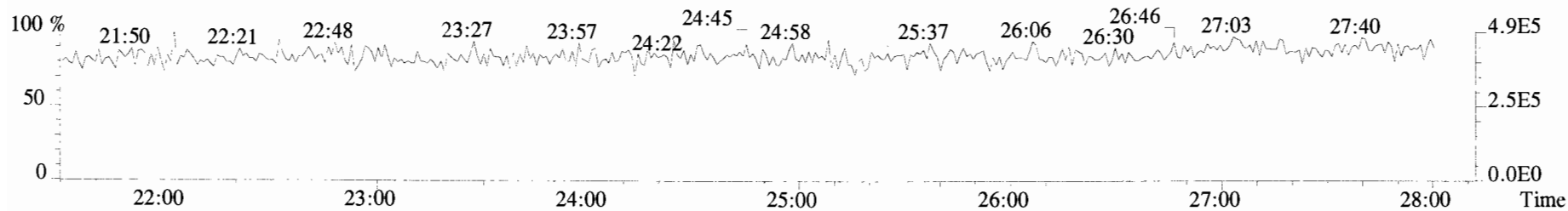
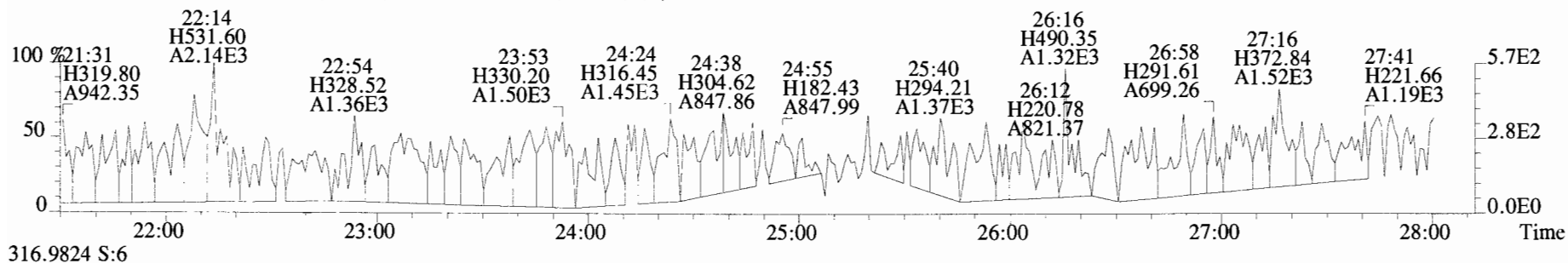
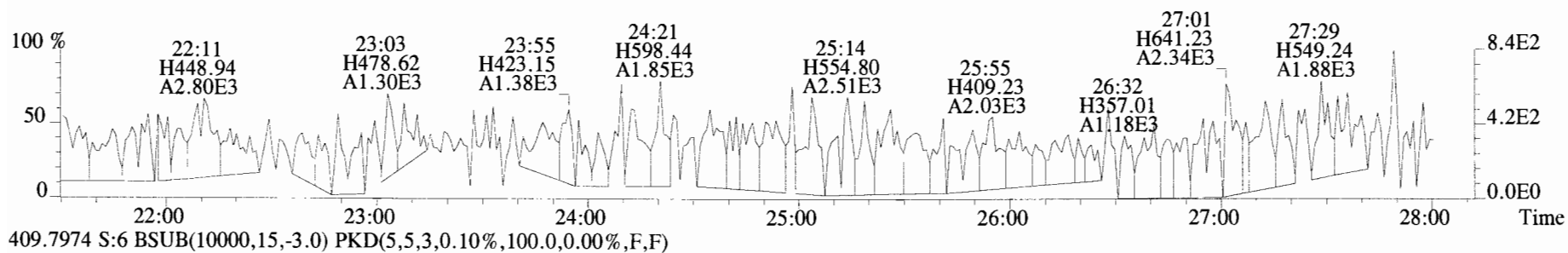
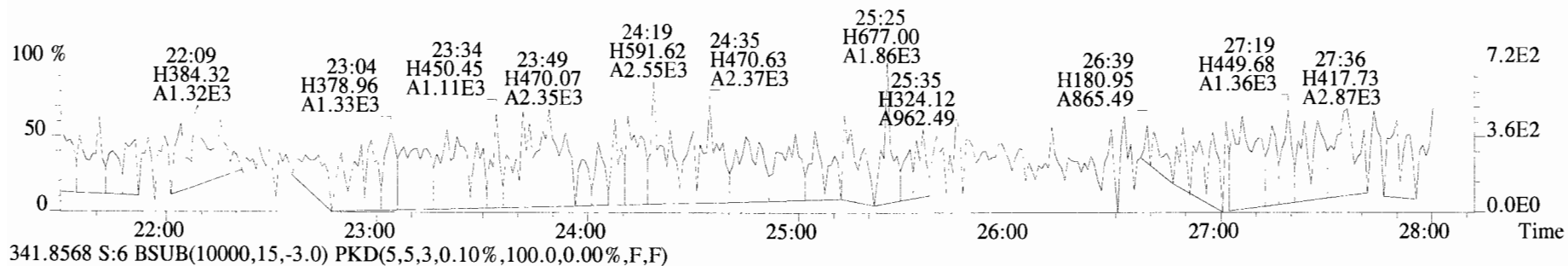
454.9728 S:6 F:5



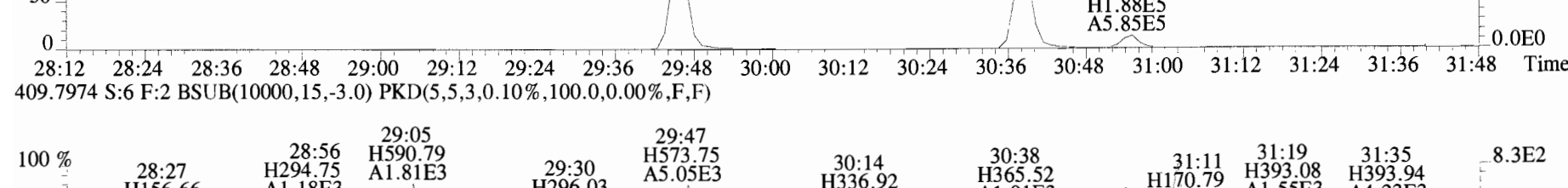
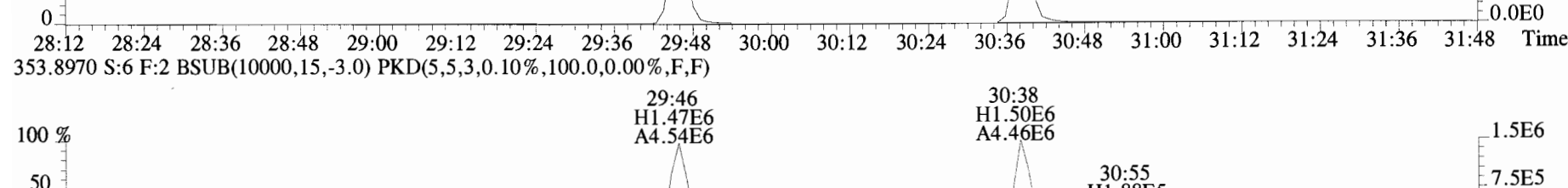
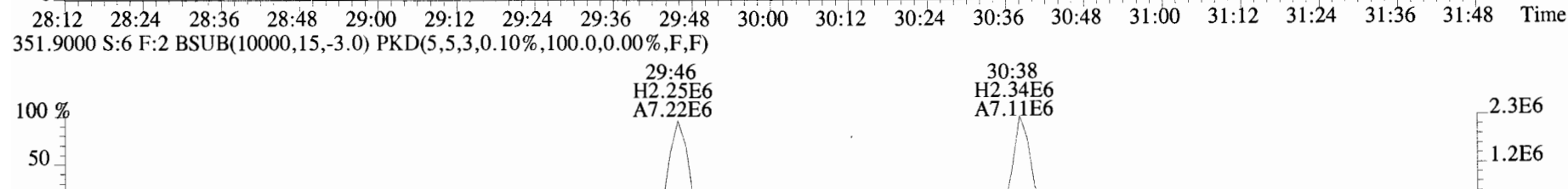
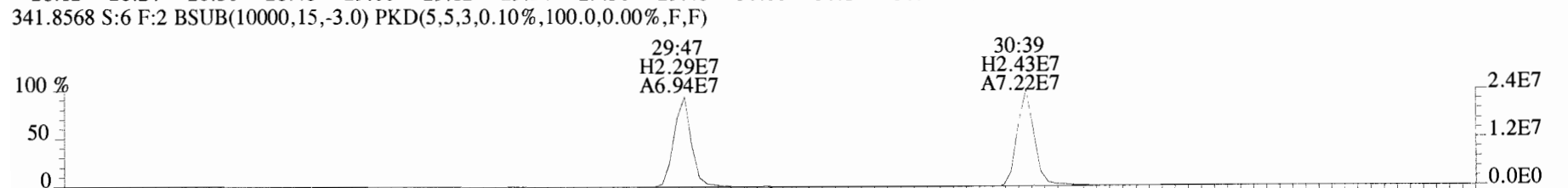
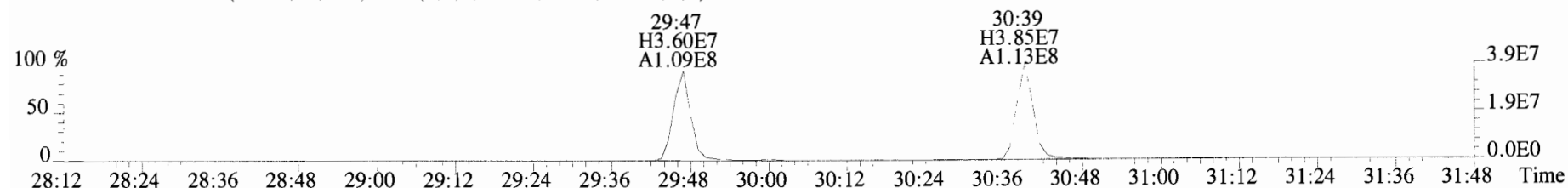
File:191009D1 #1-513 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



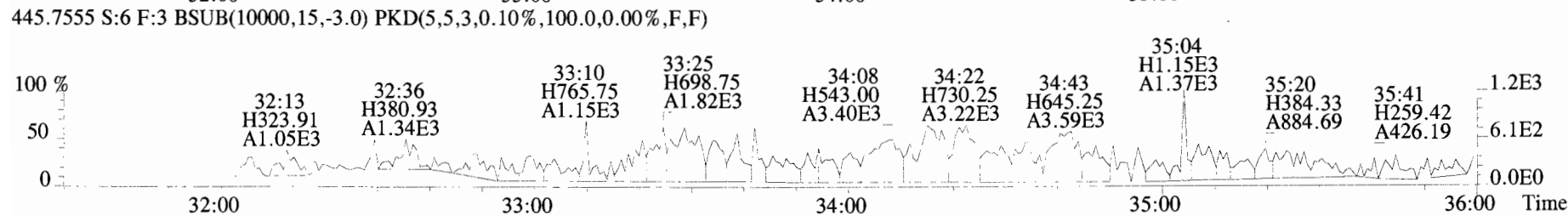
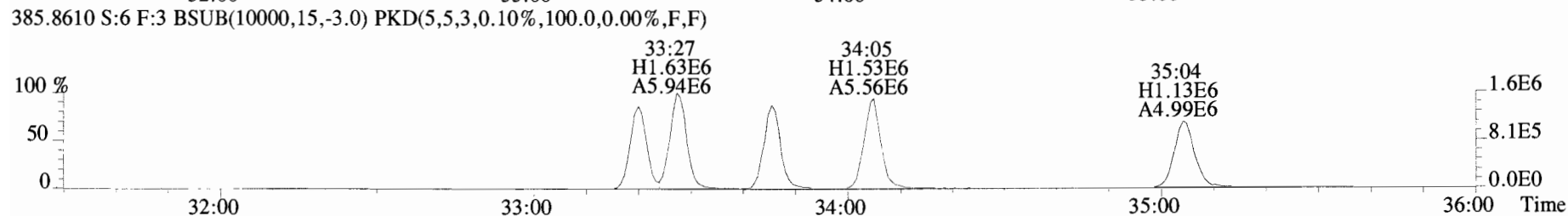
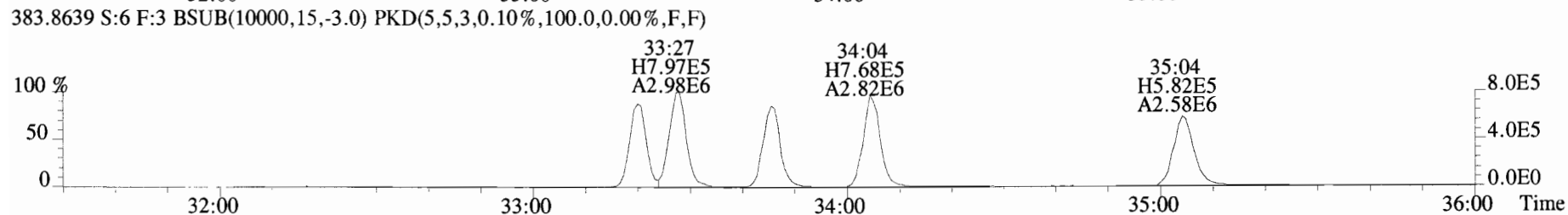
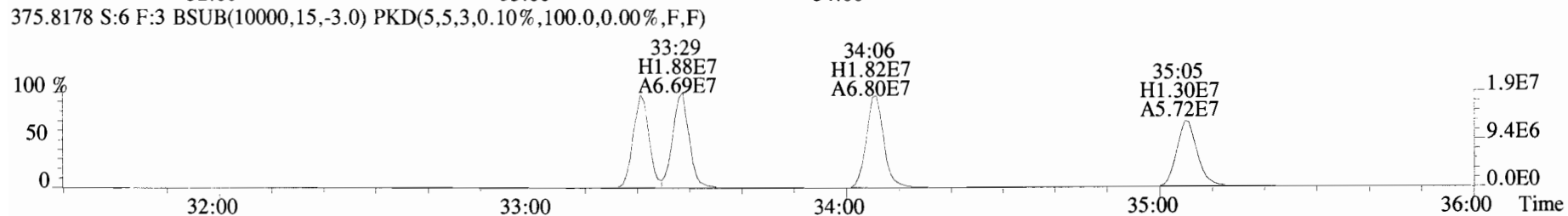
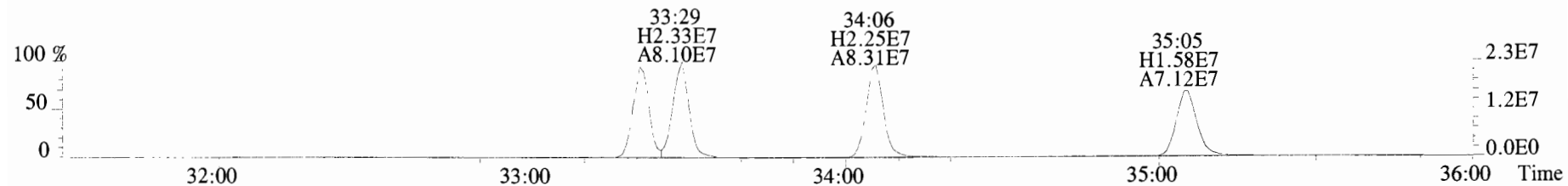
File:191009D1 #1-513 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
 339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



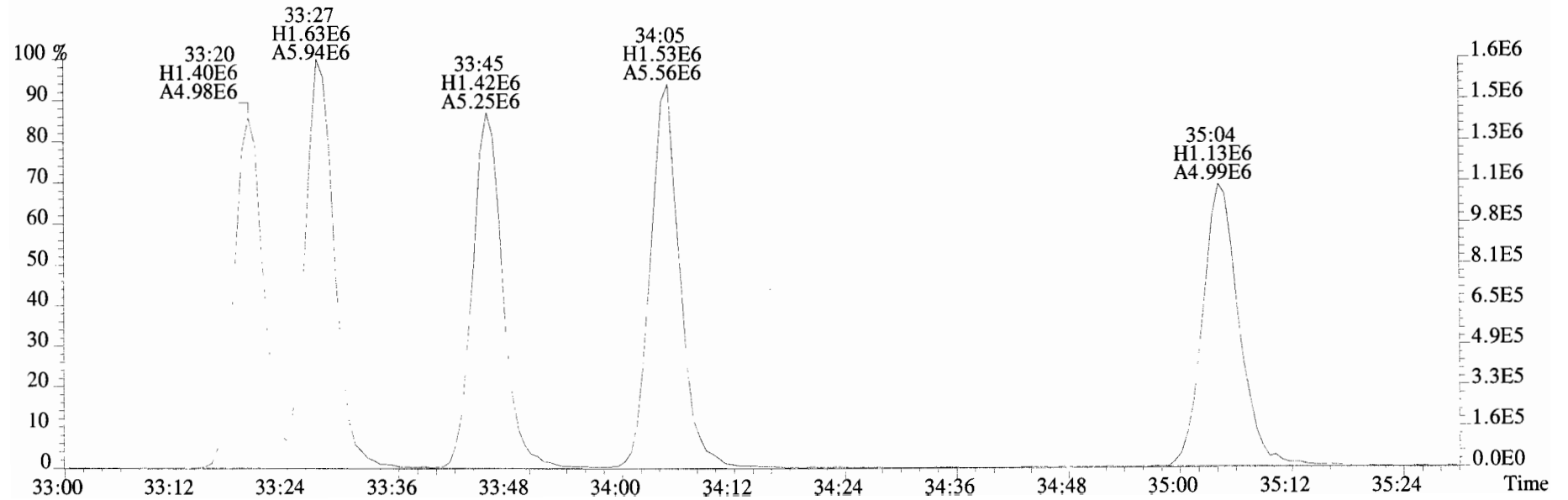
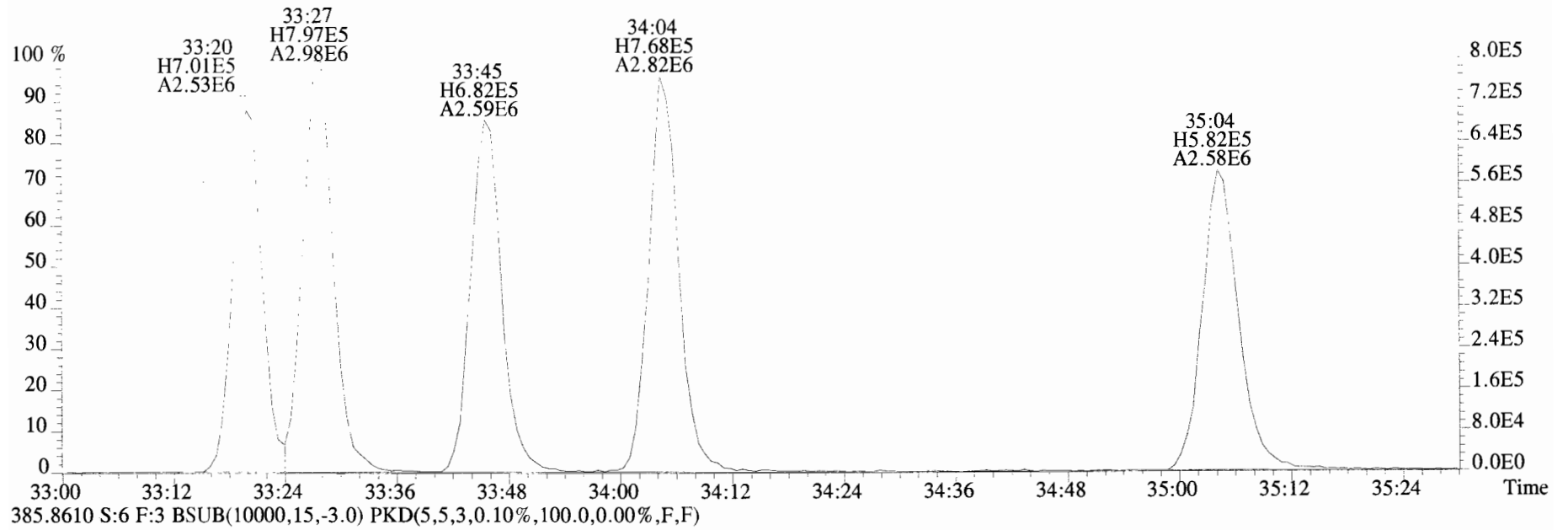
File:191009D1 #1-211 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



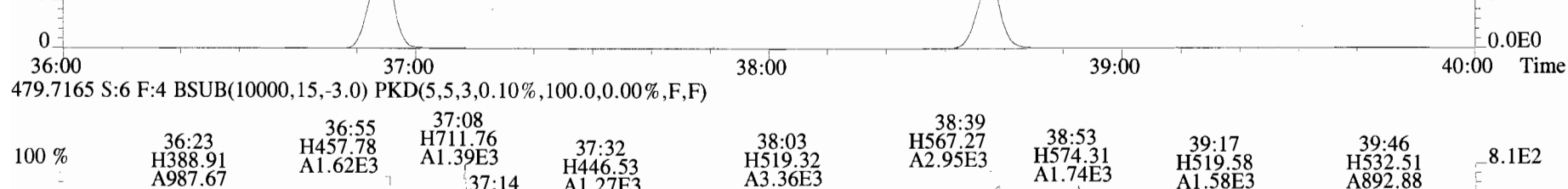
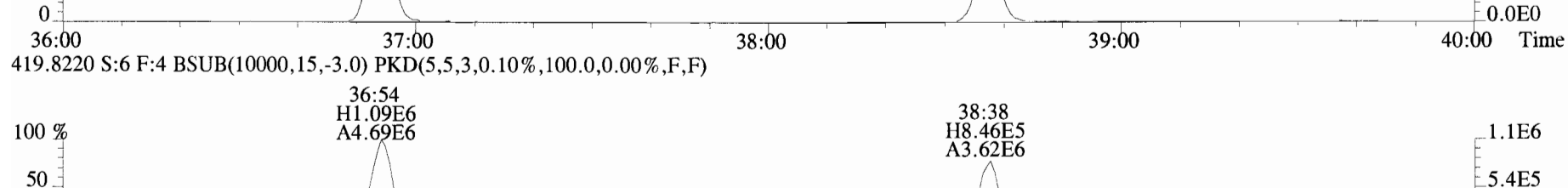
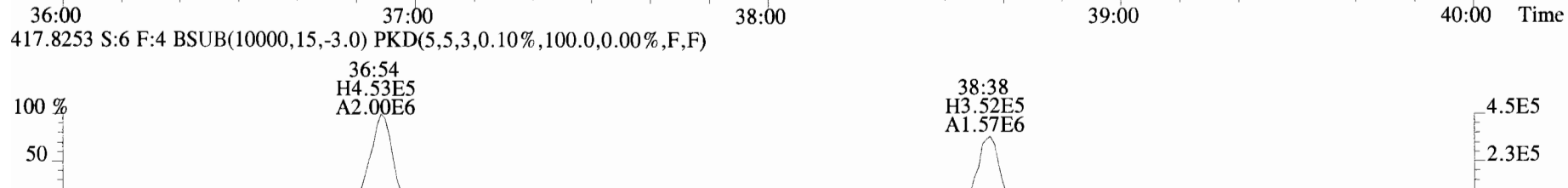
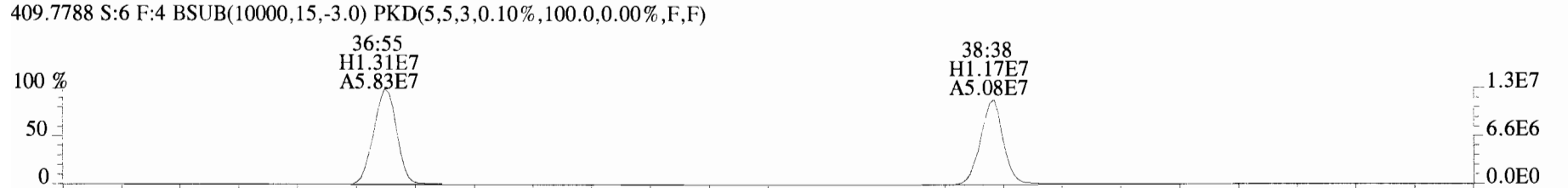
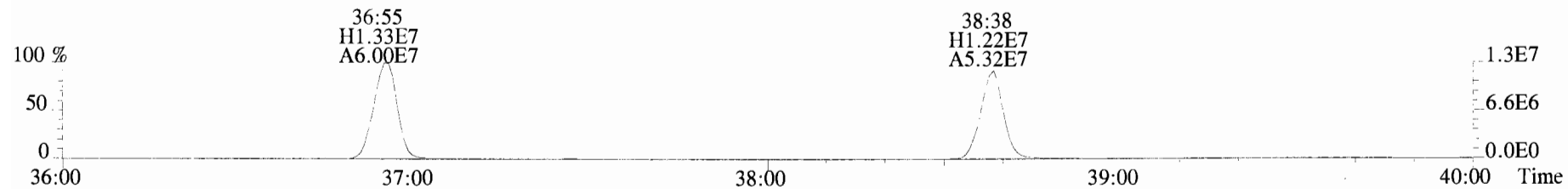
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



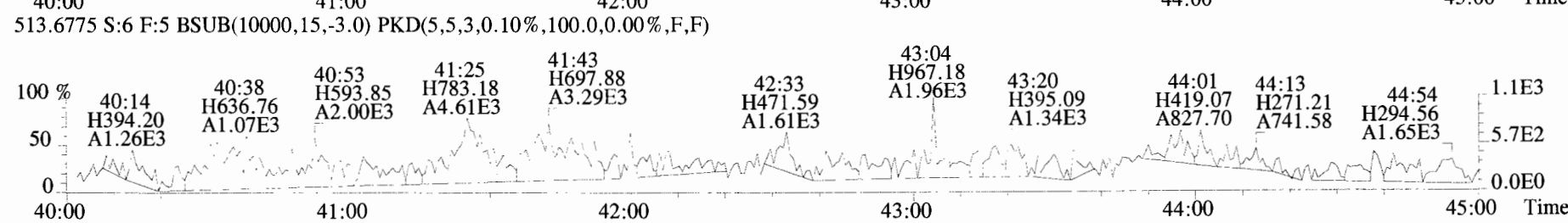
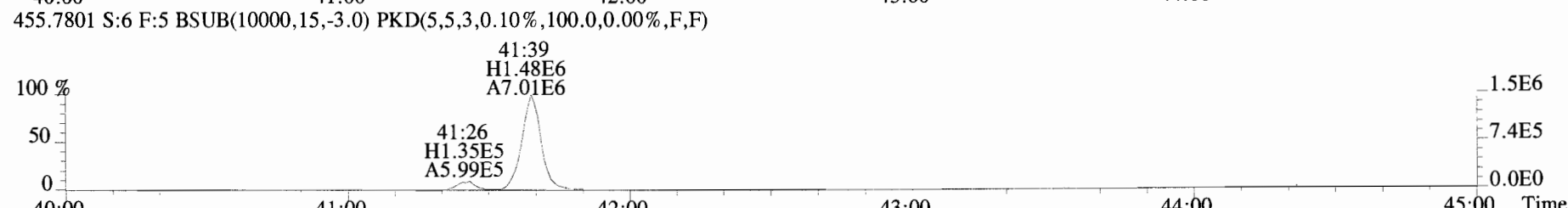
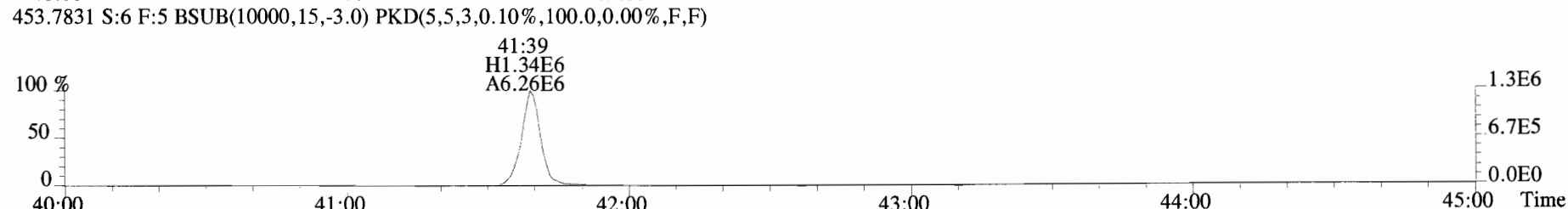
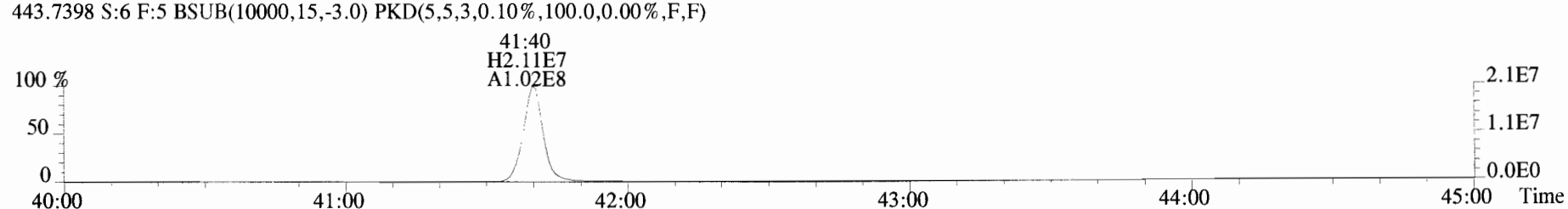
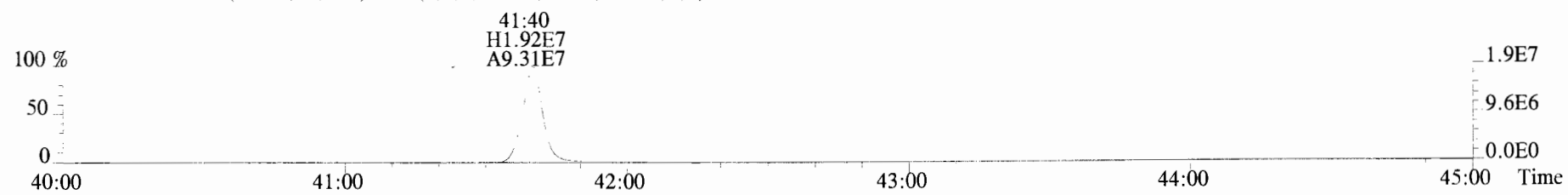
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)

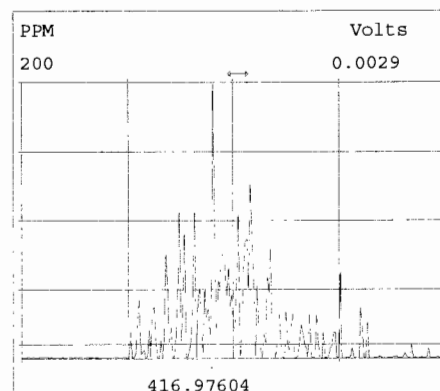
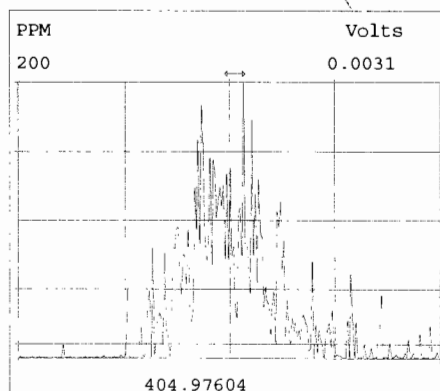
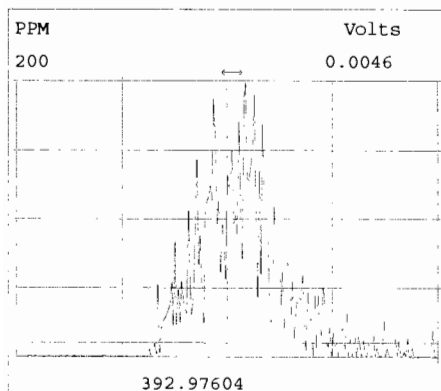
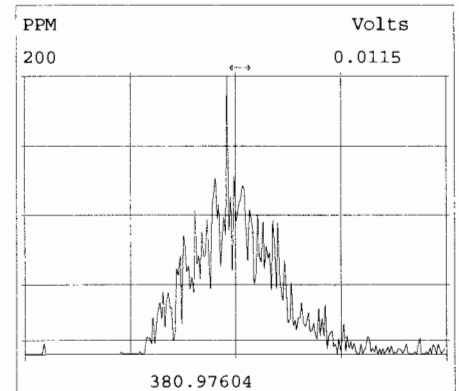
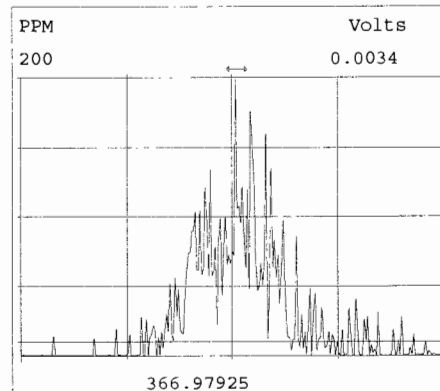
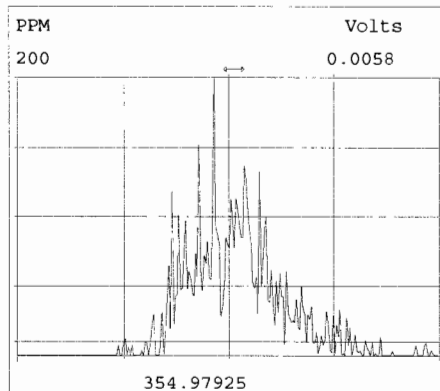
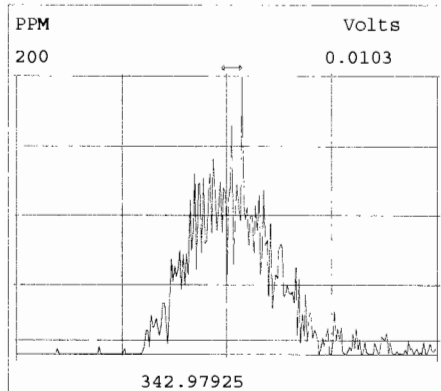
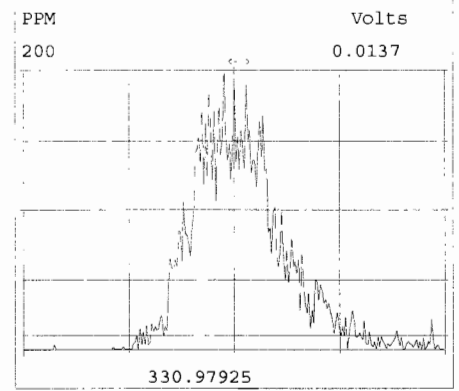
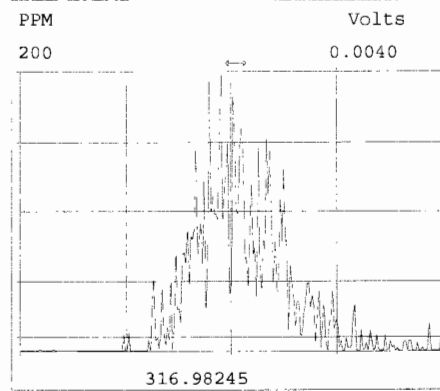
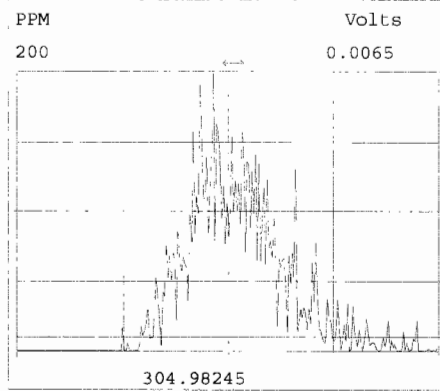
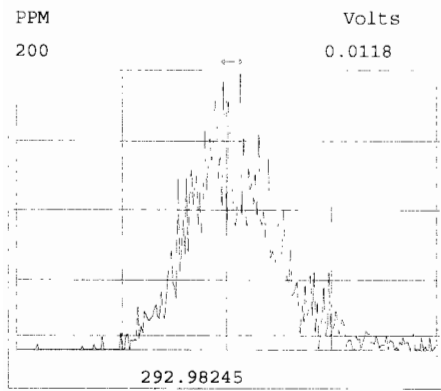


File:191009D1 #1-431 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



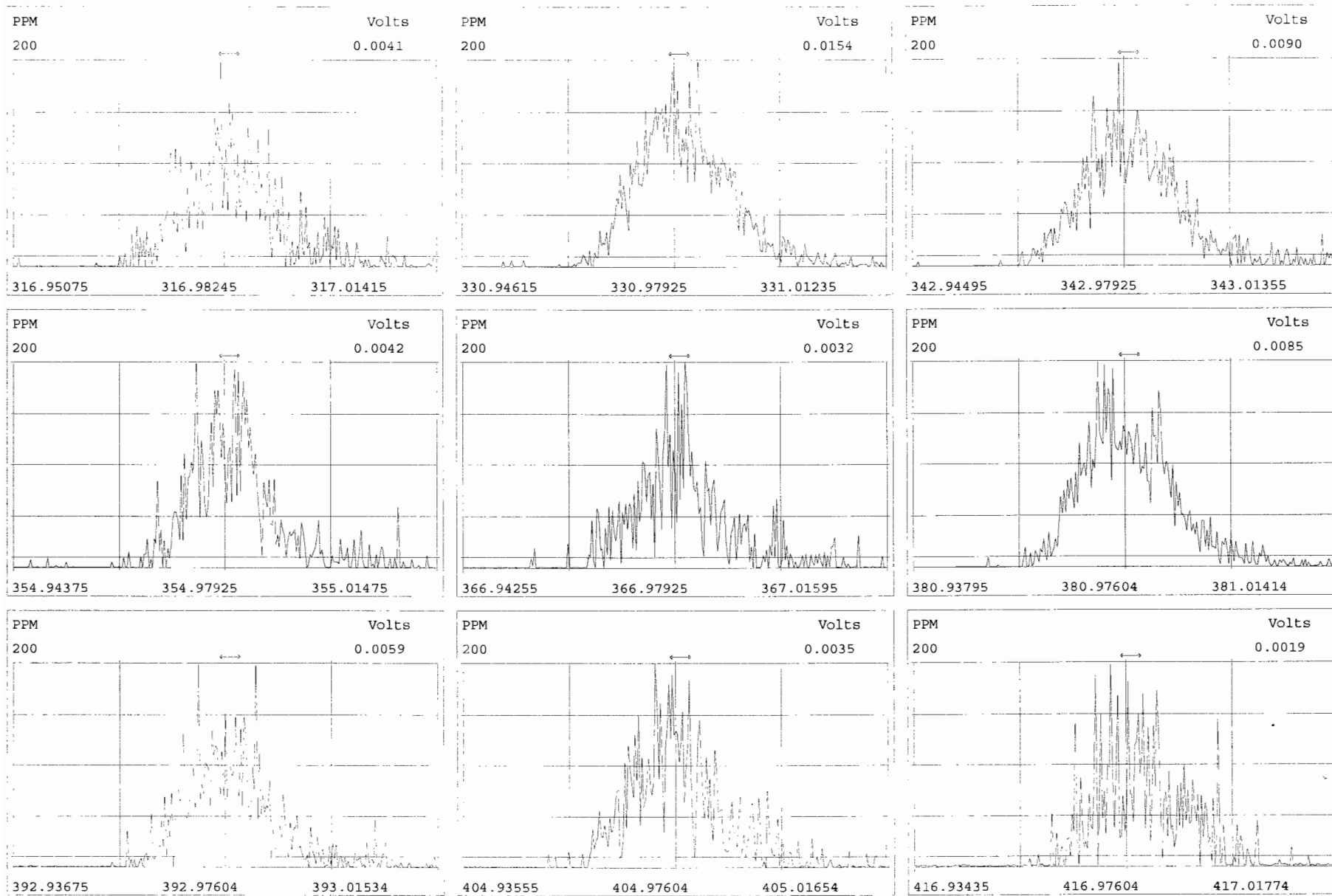
Peak Locate Examination:10-OCT-2019:06:40 File:RES_CHECK

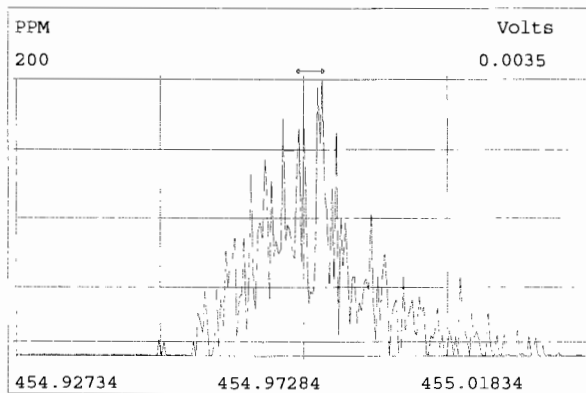
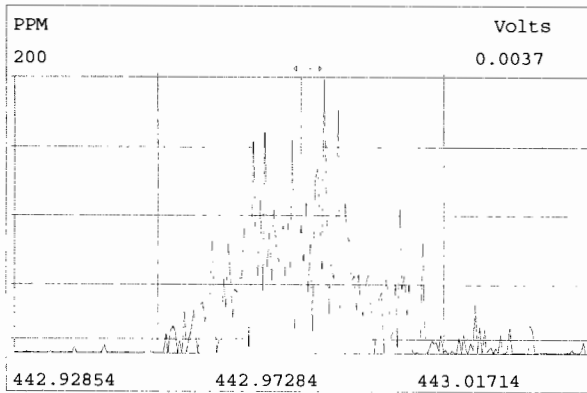
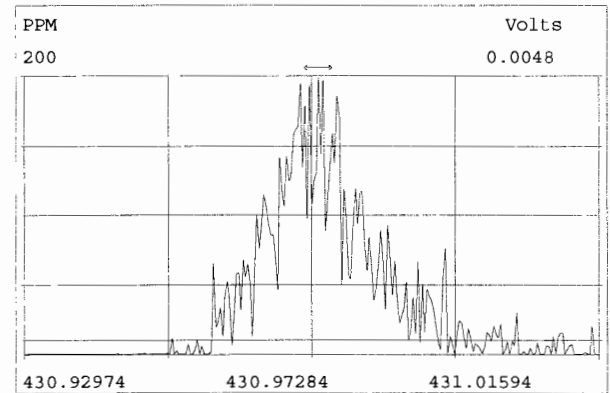
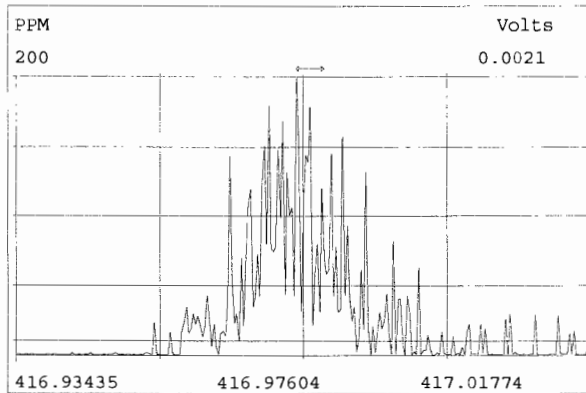
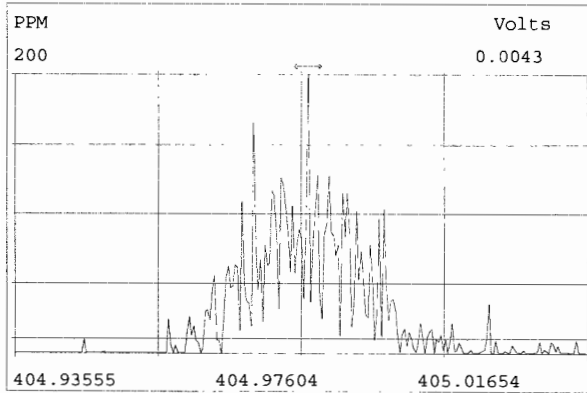
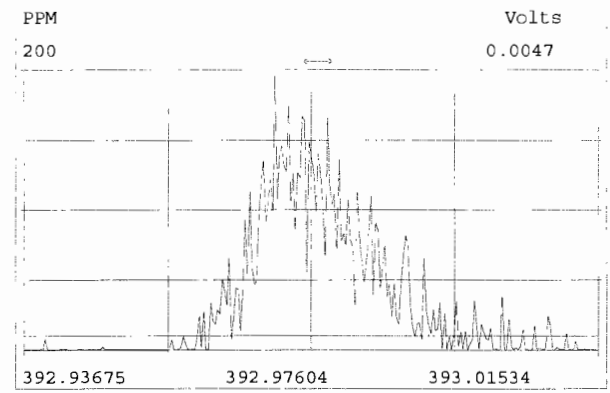
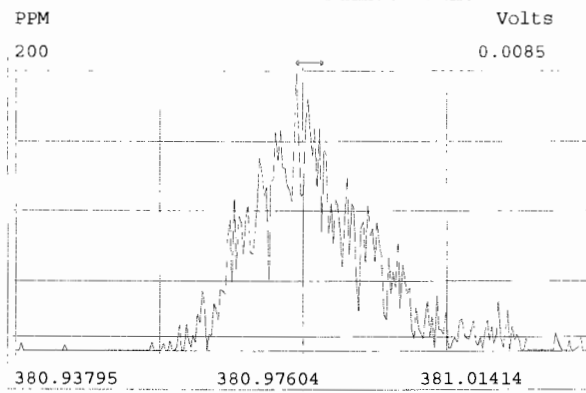
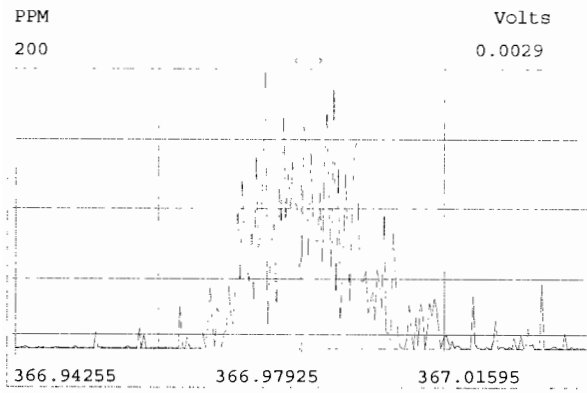
Experiment:OCDD_DB5 Function:1 Reference:PFK

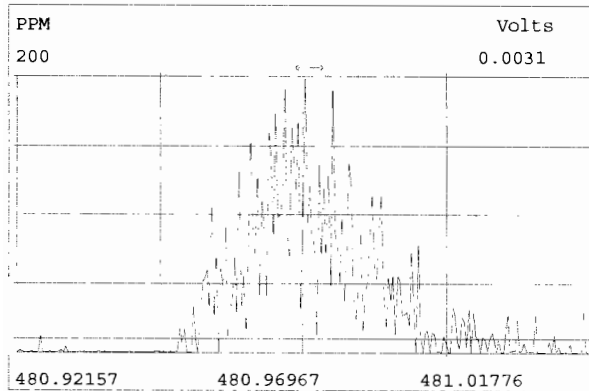
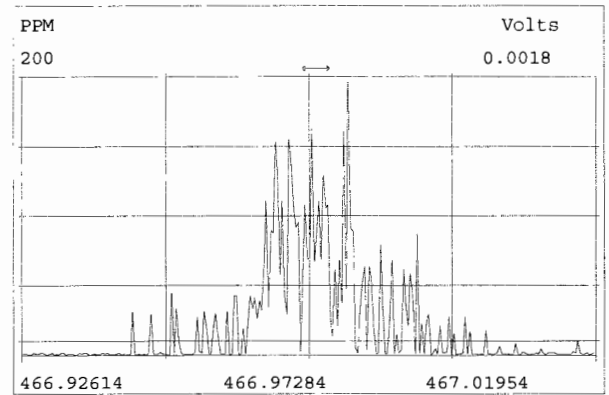
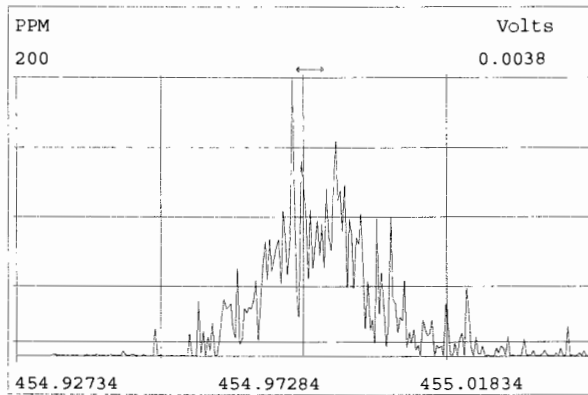
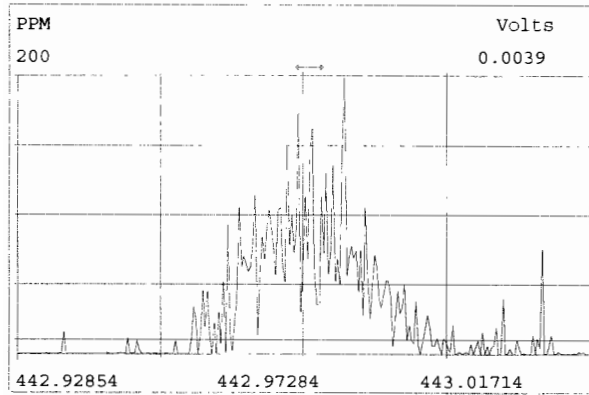
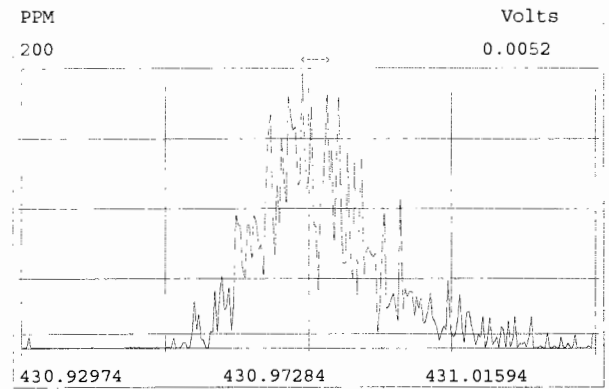
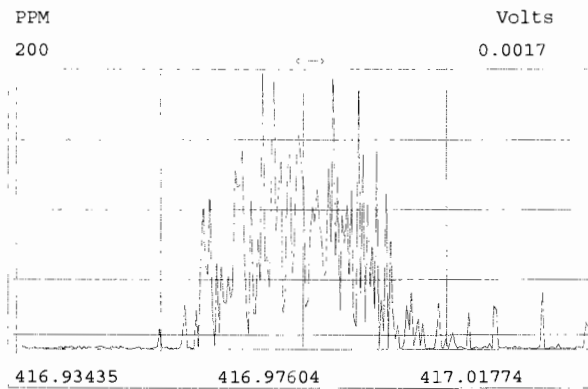
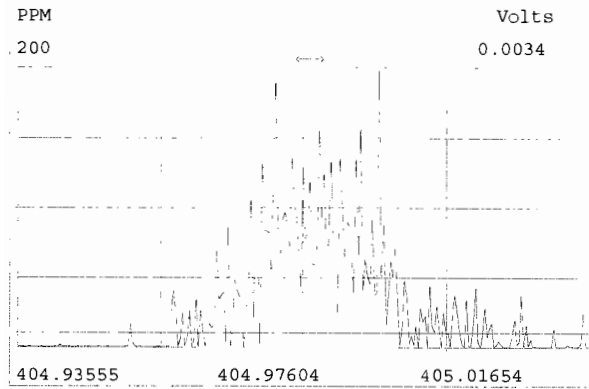


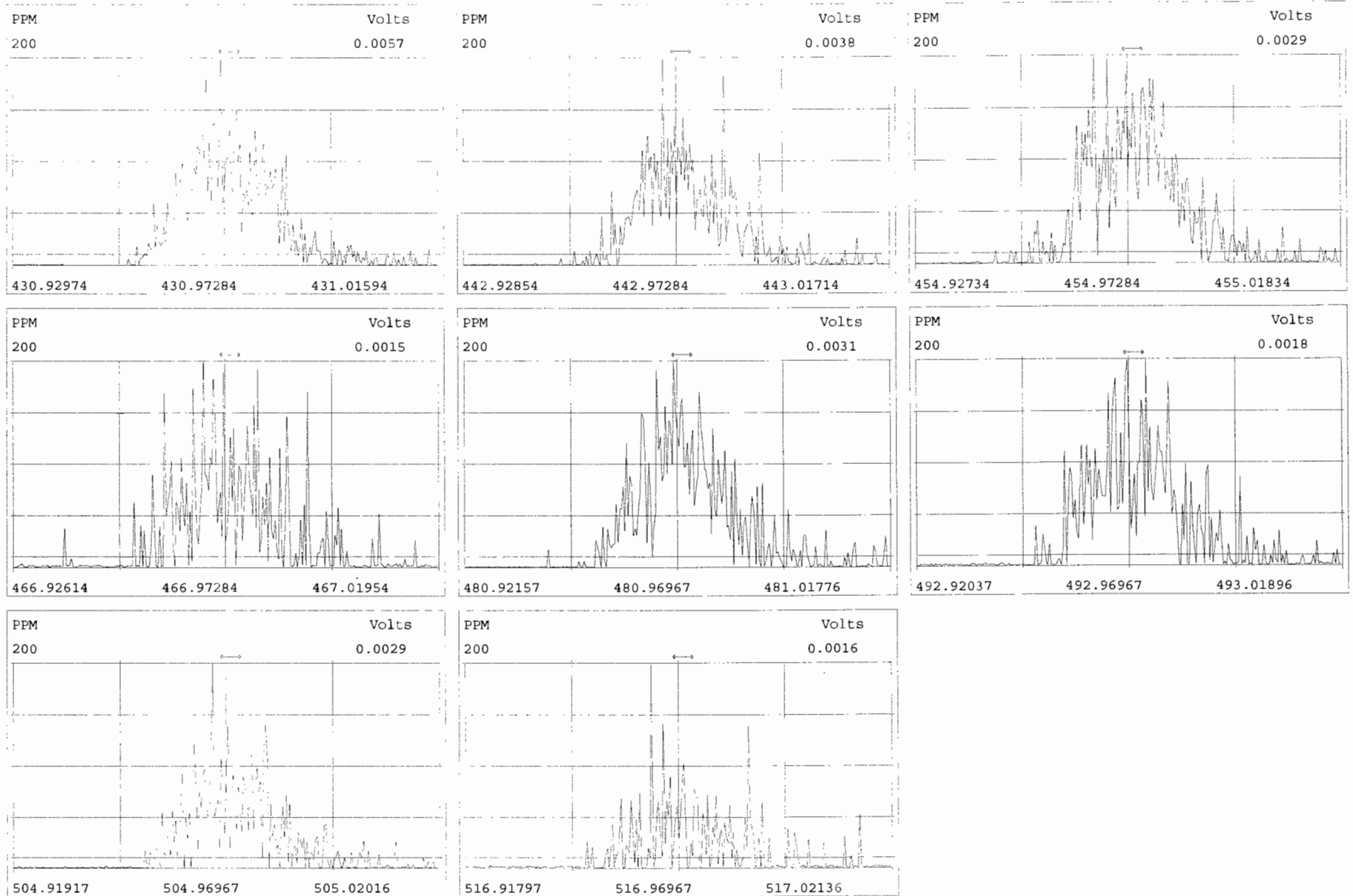
Peak Locate Examination:10-OCT-2019:06:41 File:RES_CHECK

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

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	0.72	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

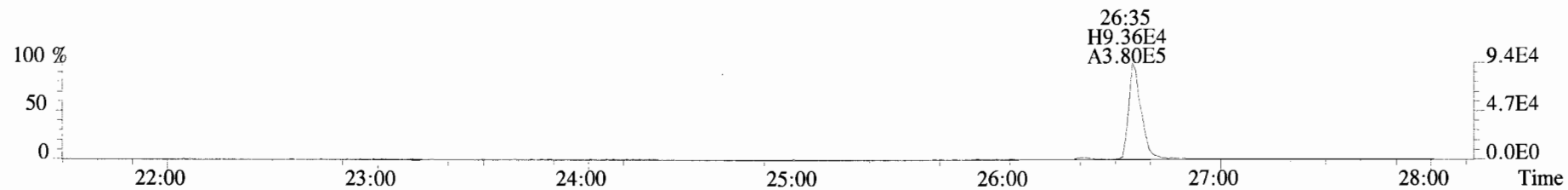
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ConCal: ST191009D1-4
EndCAL: NA

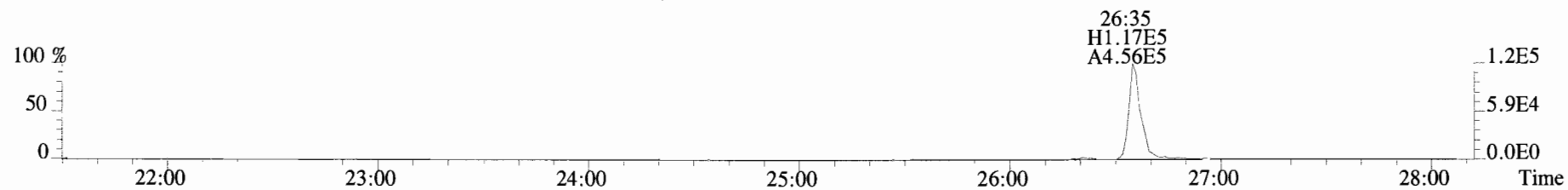
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	8.36e+05	0.83 y	0.91	26:36	10.234		* 2.5		*	Total Tetra-Dioxins	10.4	11.4		*	*
1,2,3,7,8-PeCDD	3.38e+06	0.63 y	0.90	30:57	51.323		* 2.5		*	Total Penta-Dioxins	51.4	51.7		*	*
1,2,3,4,7,8-HxCDD	2.55e+06	1.31 y	1.10	34:18	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
by DB
Analyst: DB
Reviewed
by CT
Analyst: CT
Date: 10/10/19
Date: 10/10/19

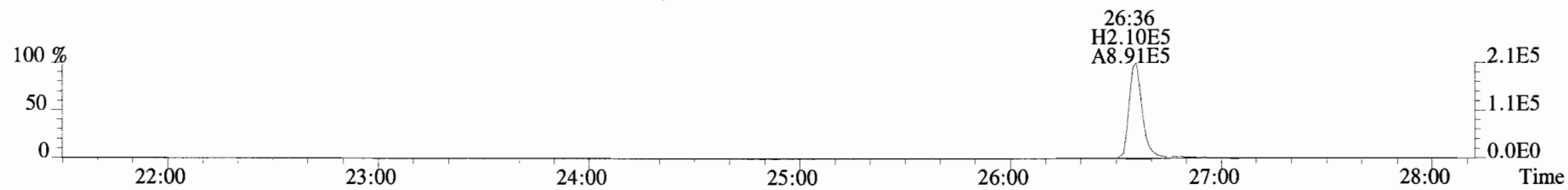
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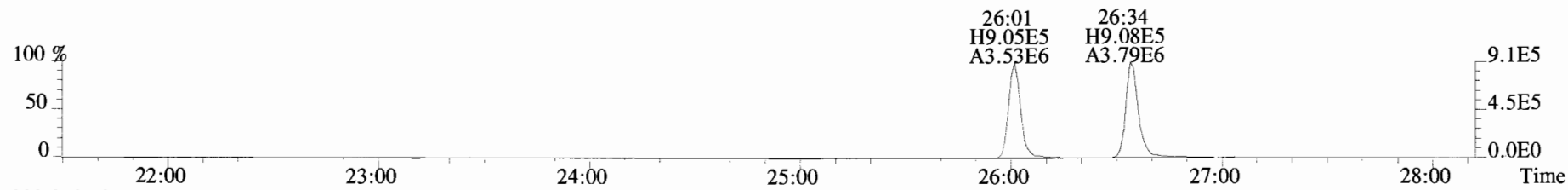
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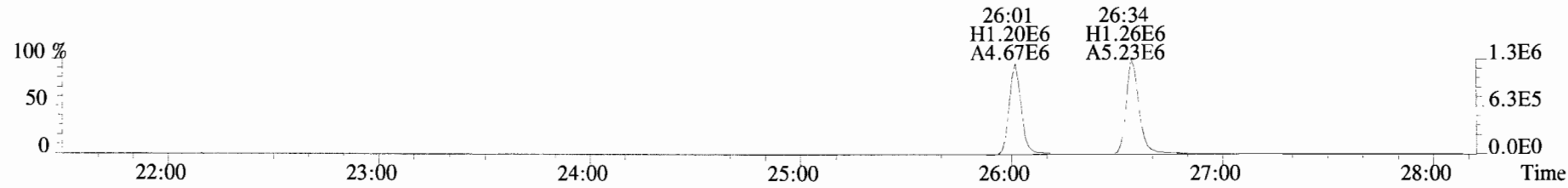
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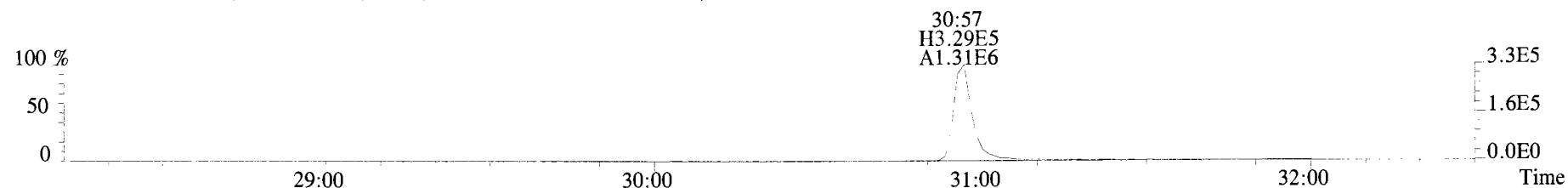
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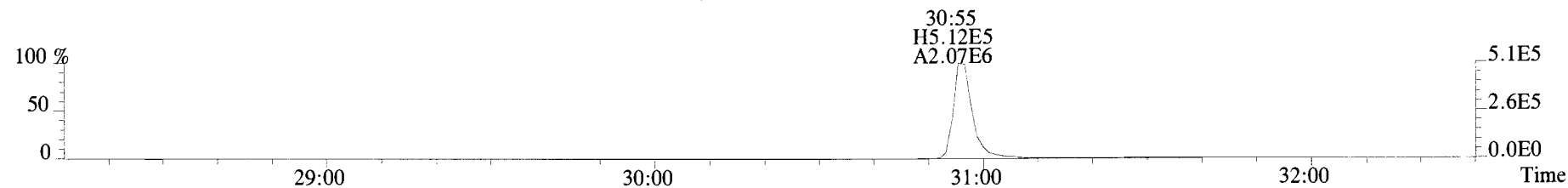
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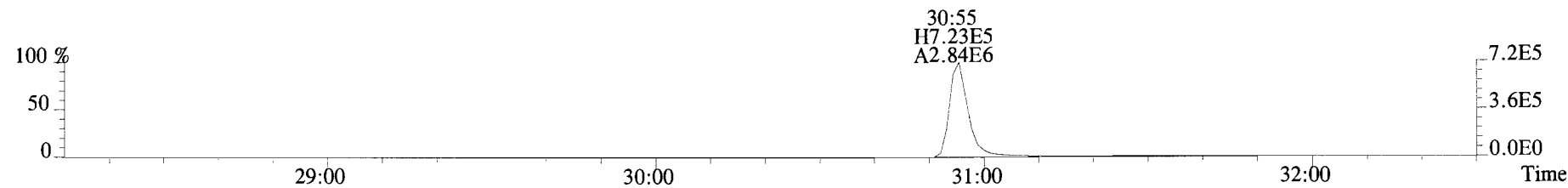
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353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



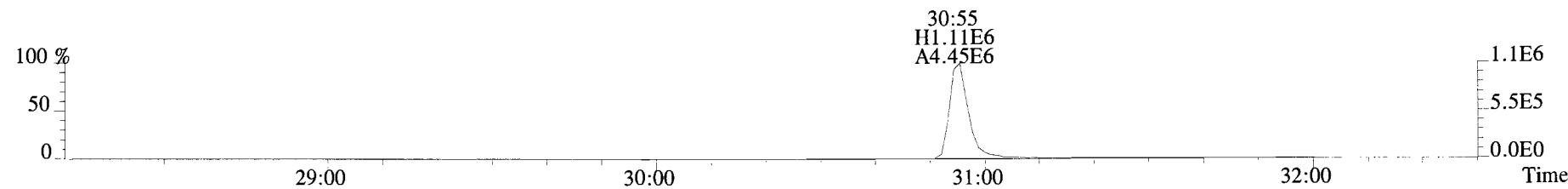
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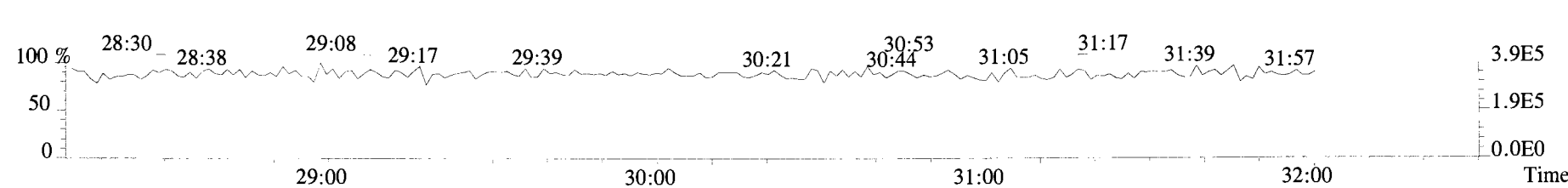
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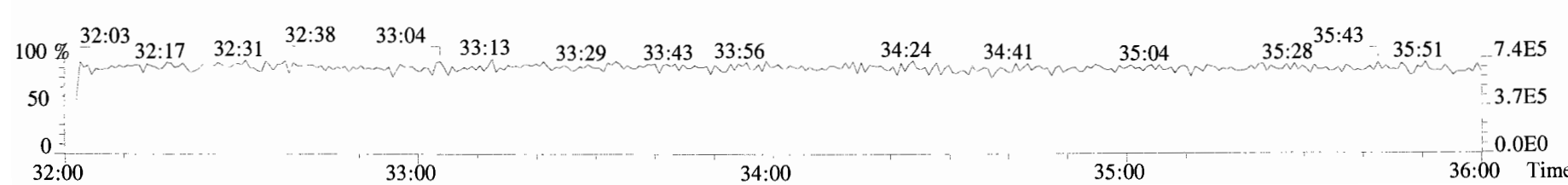
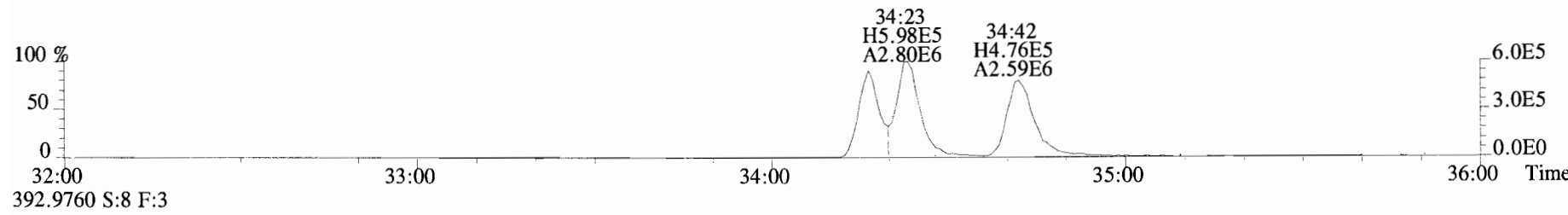
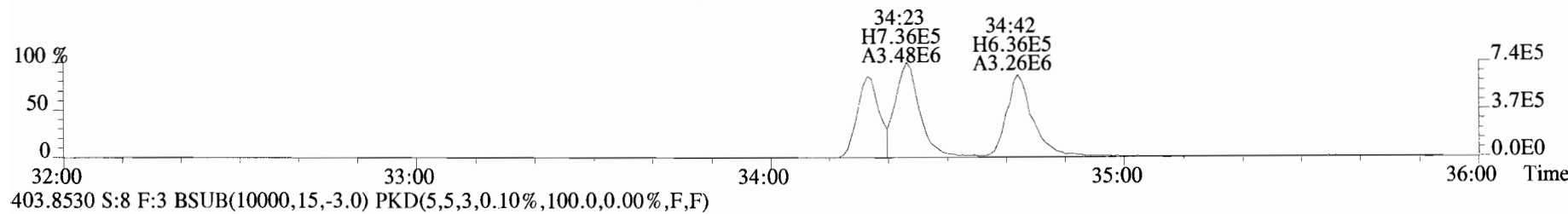
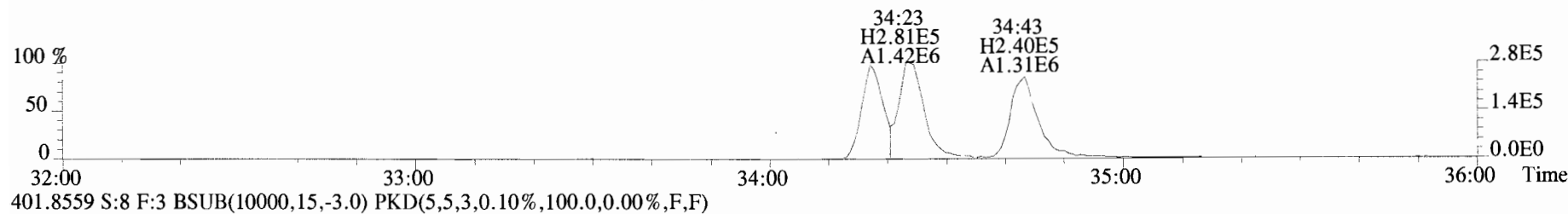
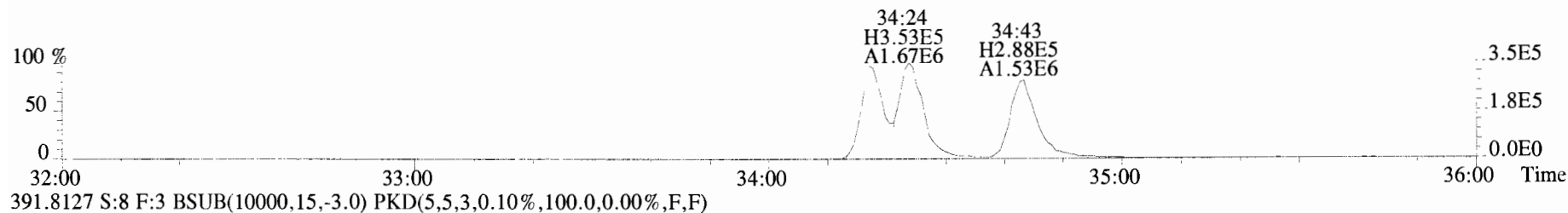
367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



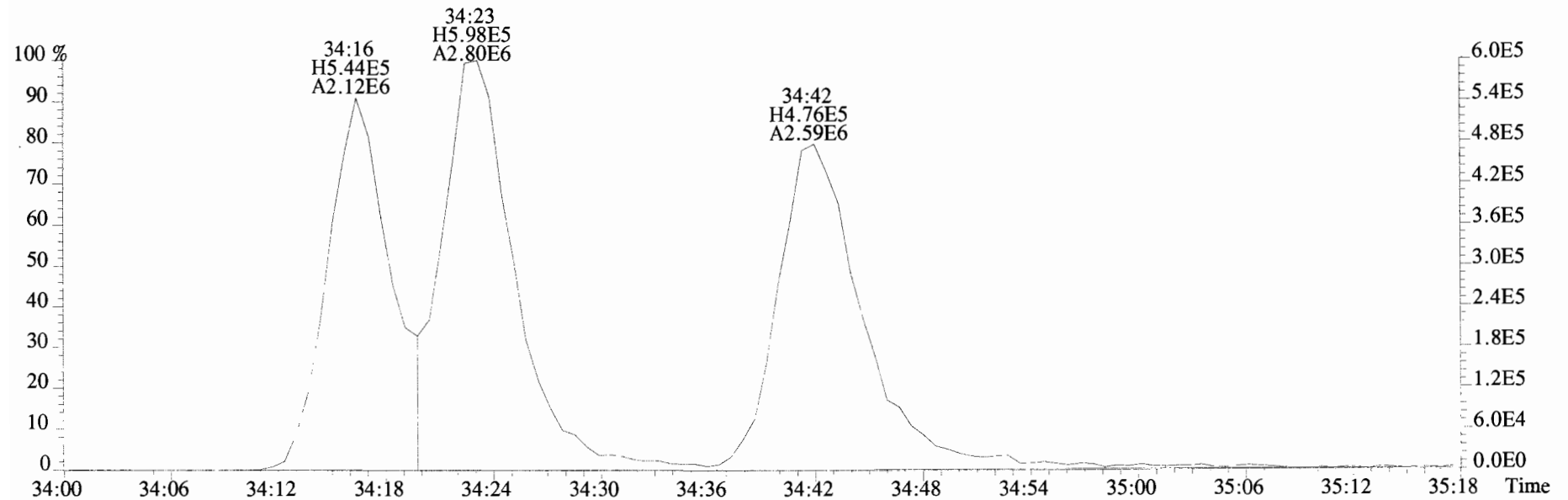
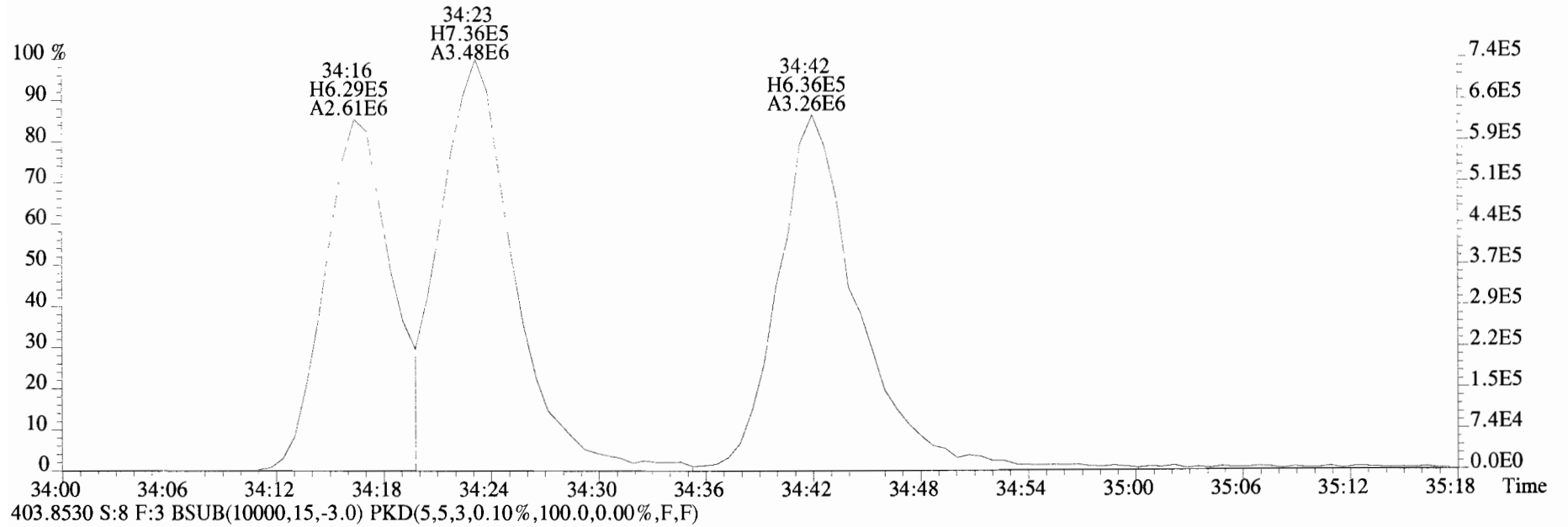
366.9792 S:8 F:2



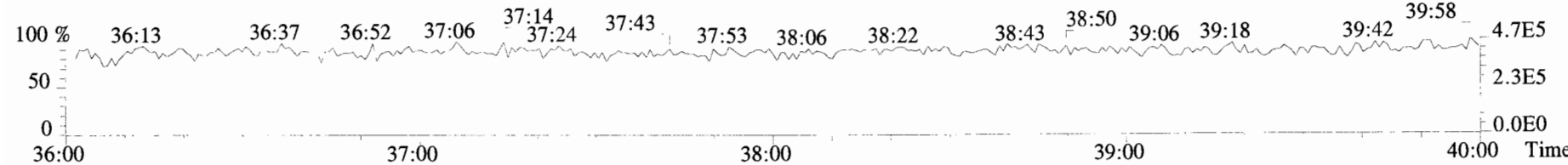
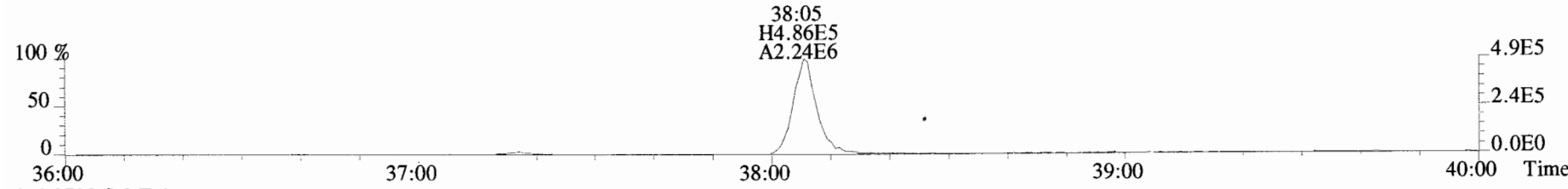
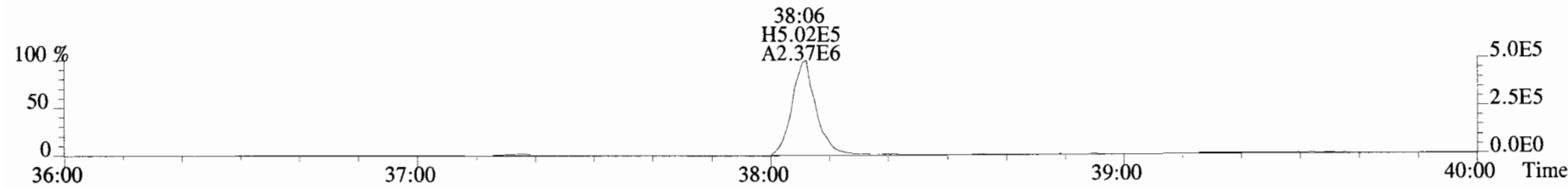
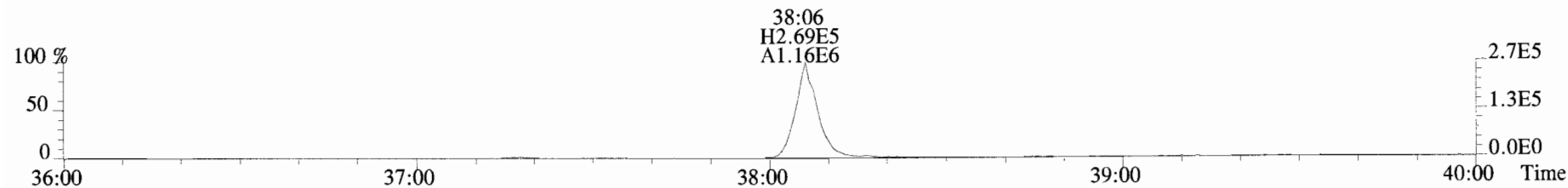
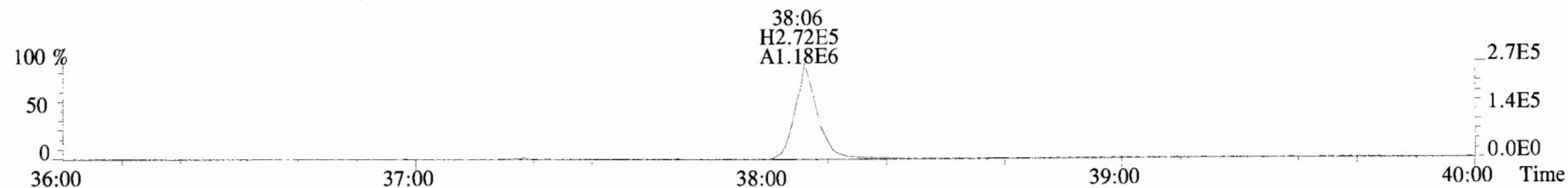
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



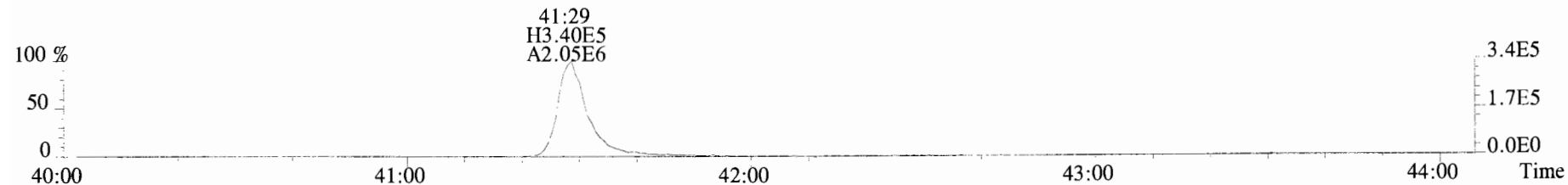
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



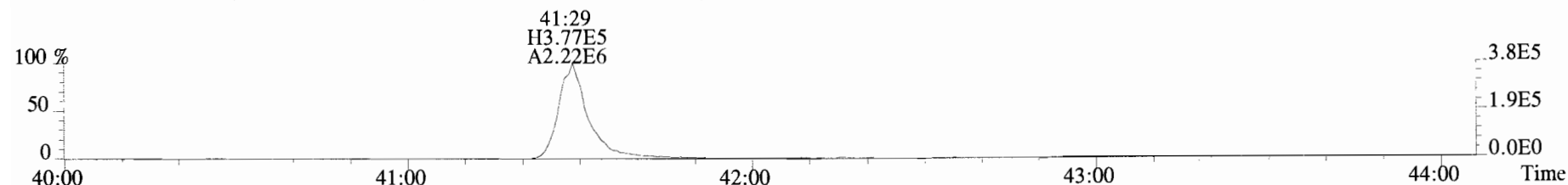
File:191009D1 #1-356 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



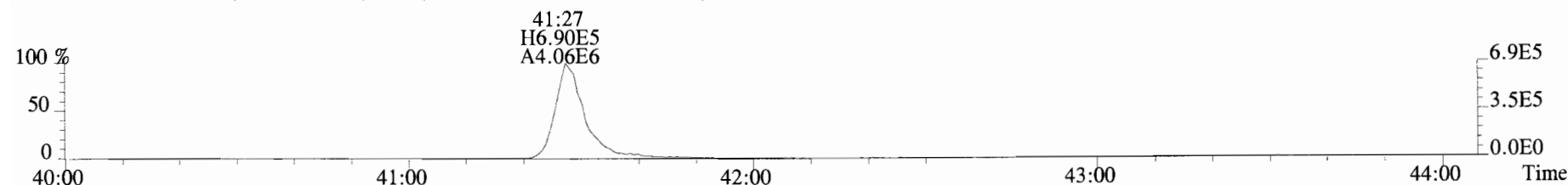
File:191009D1 #1-431 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



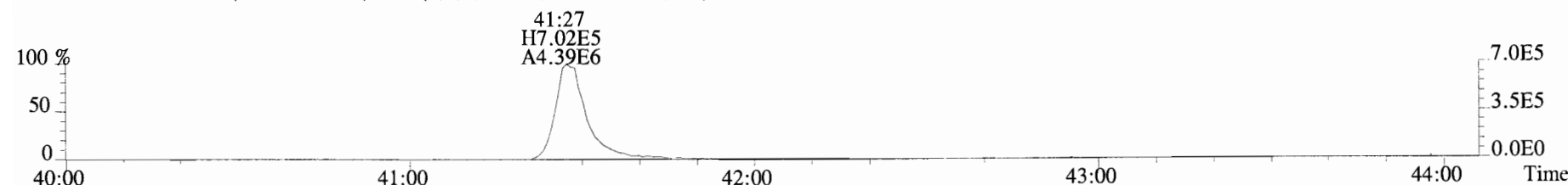
459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



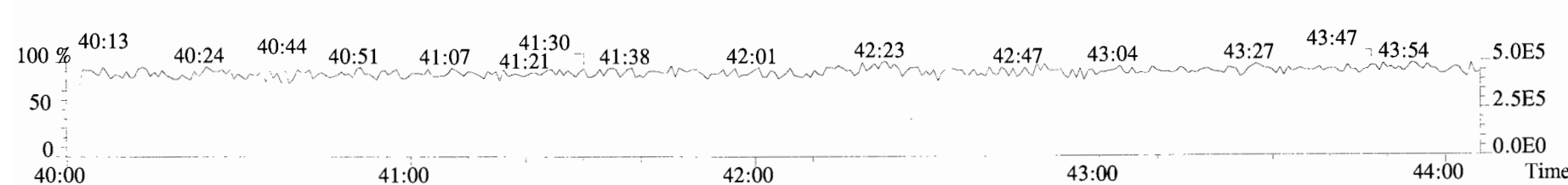
469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



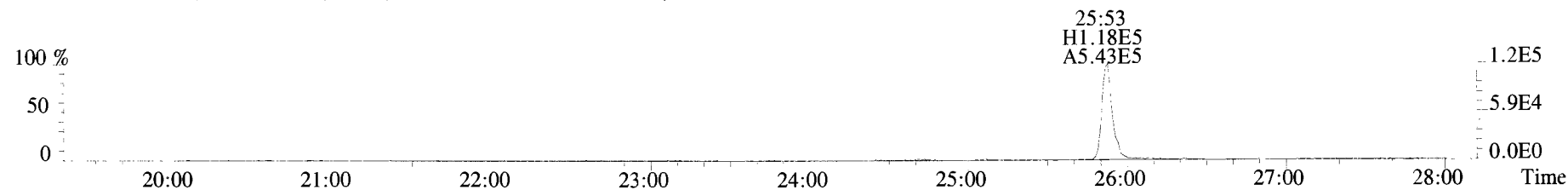
471.7750 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



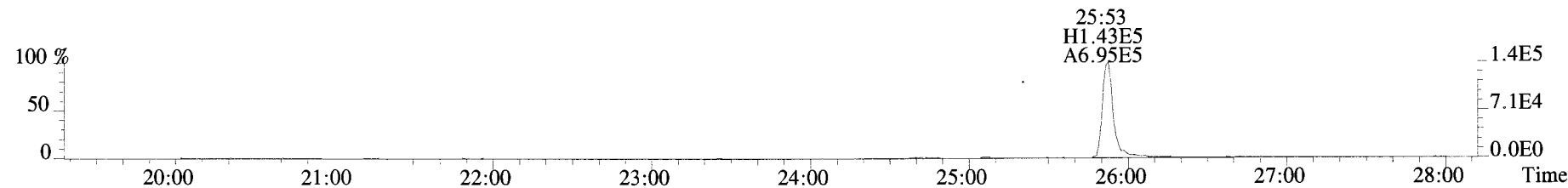
454.9728 S:8 F:5



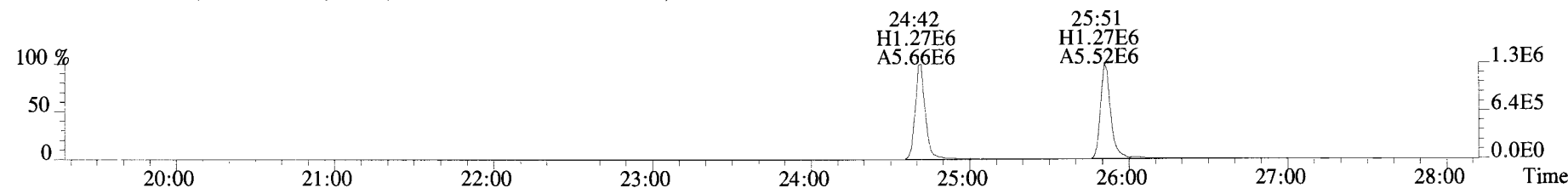
File:191009D1 #1-514 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



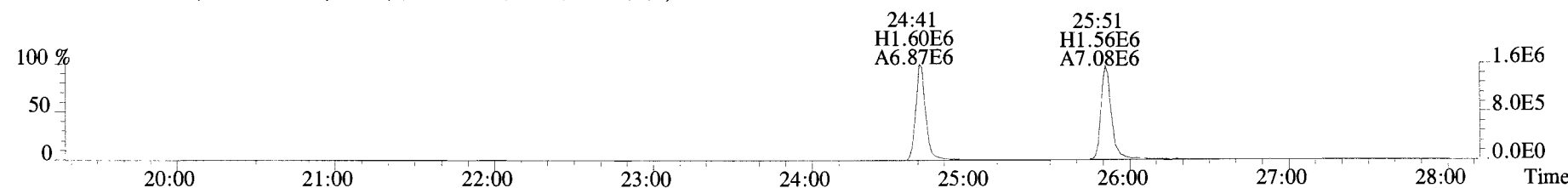
305.8987 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



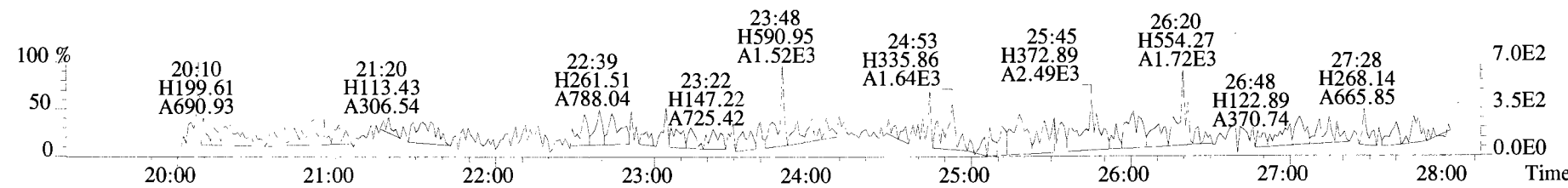
315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



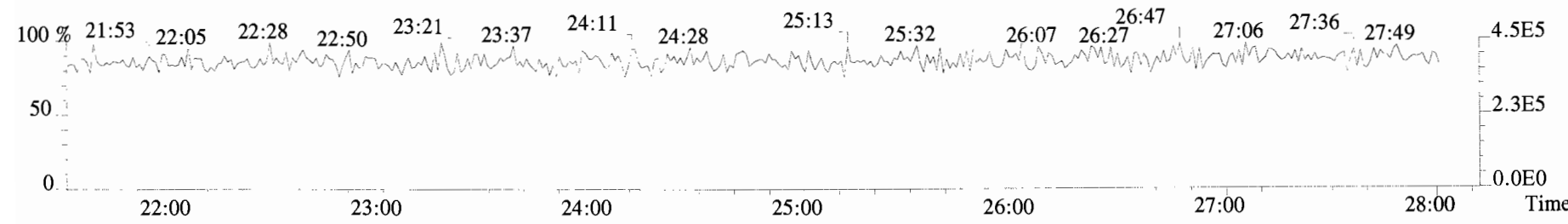
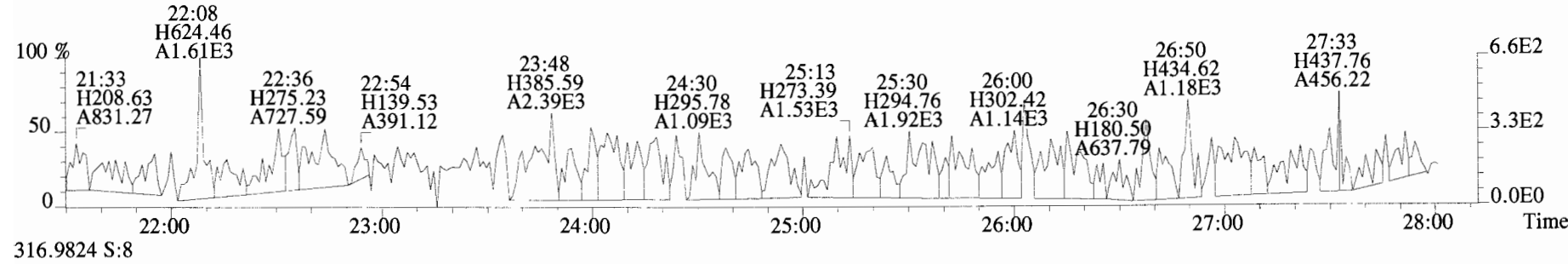
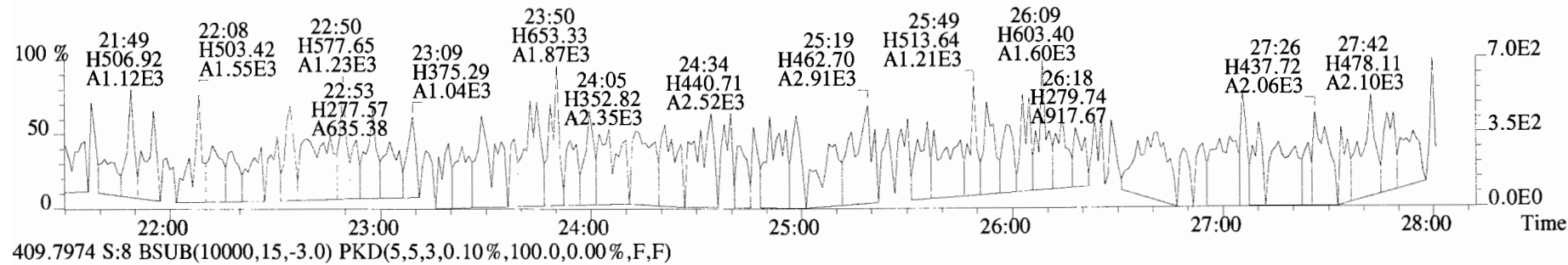
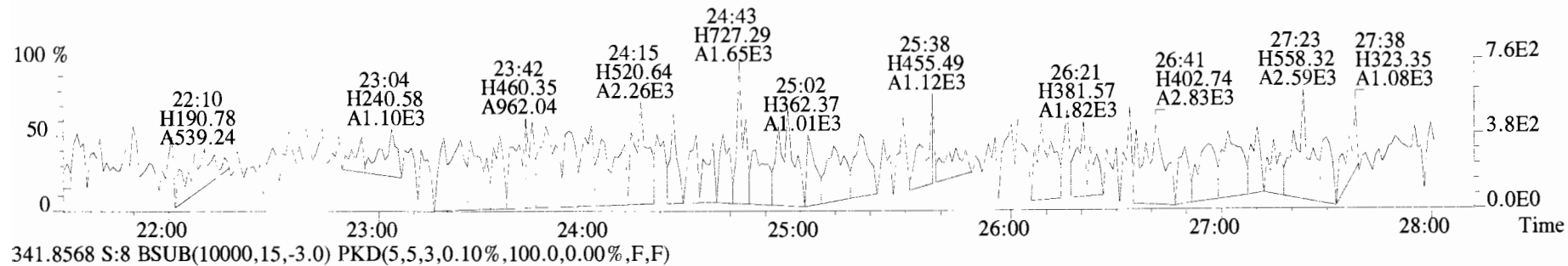
317.9389 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



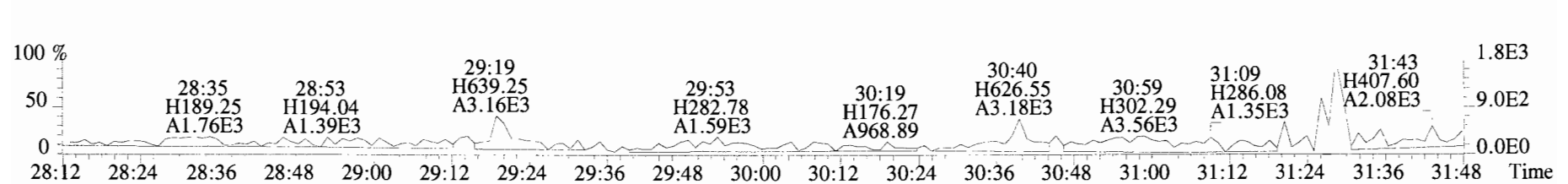
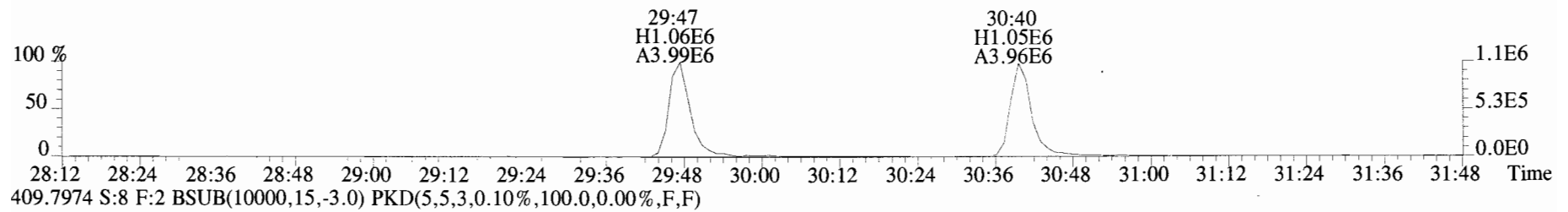
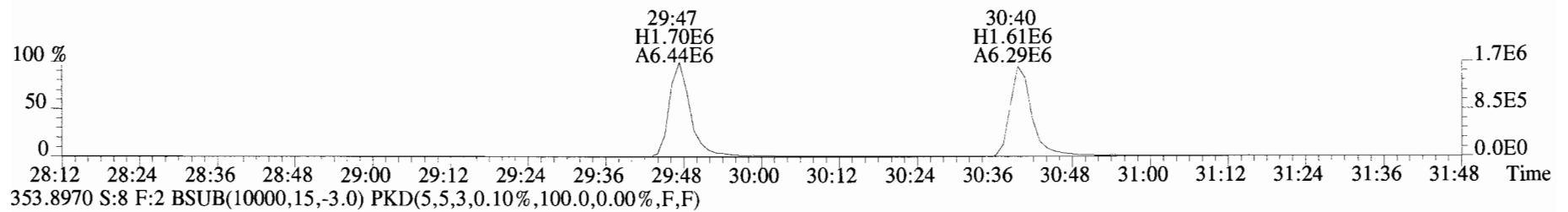
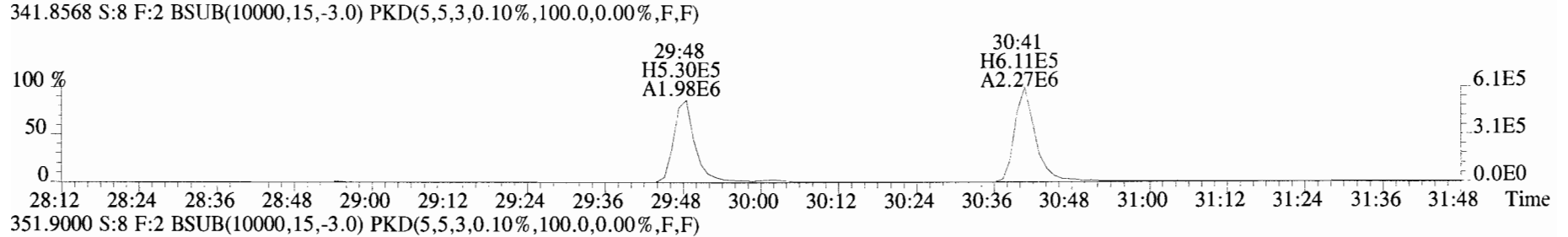
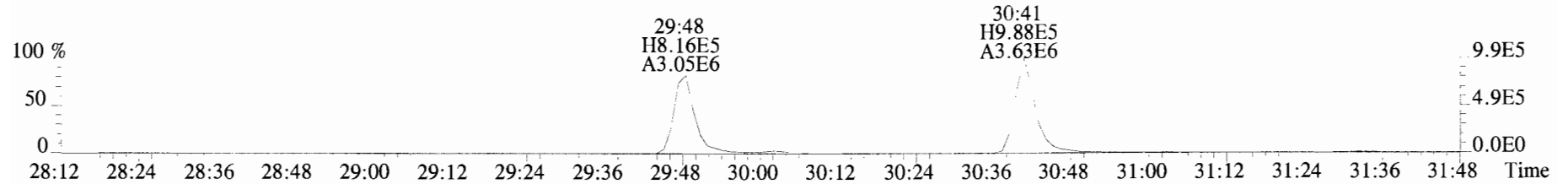
375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



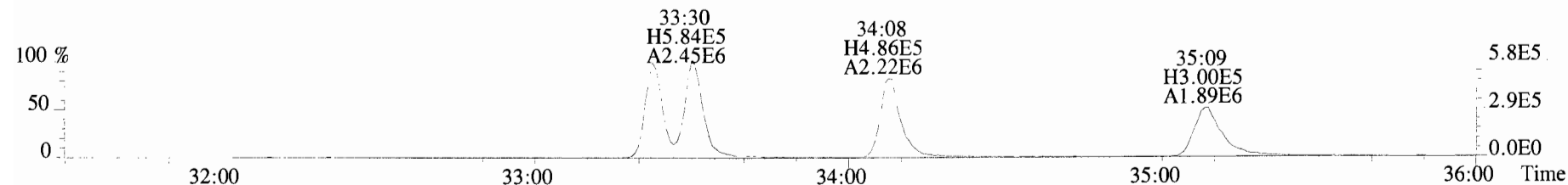
File:191009D1 #1-514 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
 339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



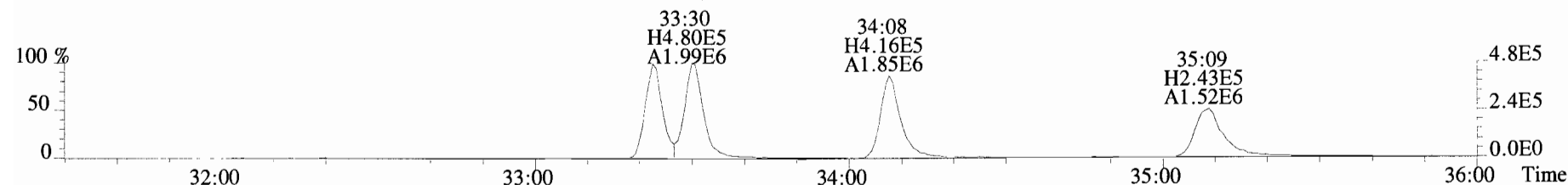
File:191009D1 #1-210 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
 339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



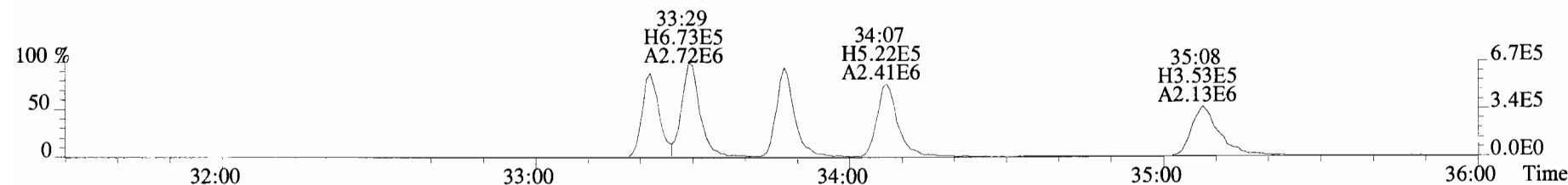
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
 373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



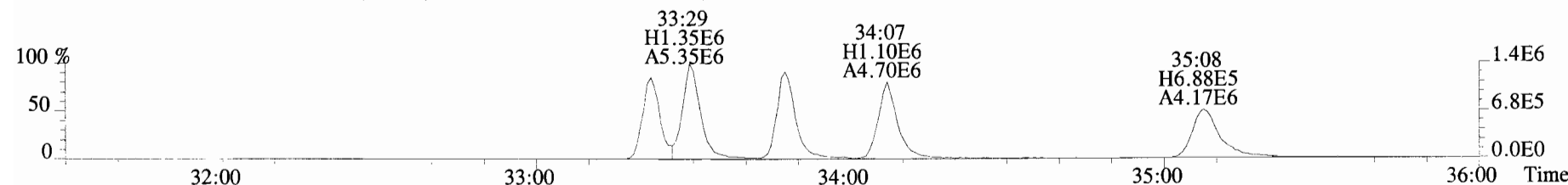
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



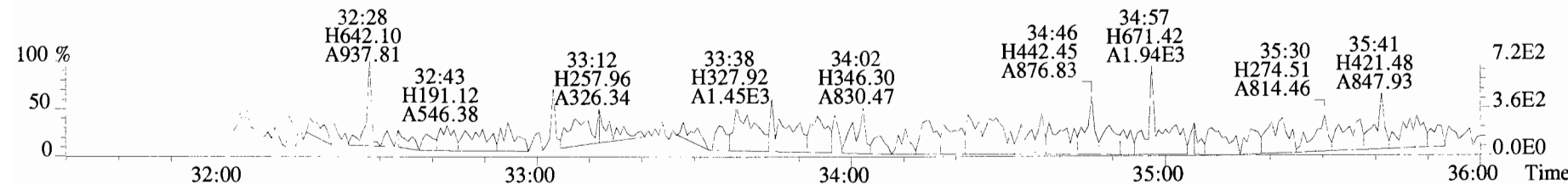
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



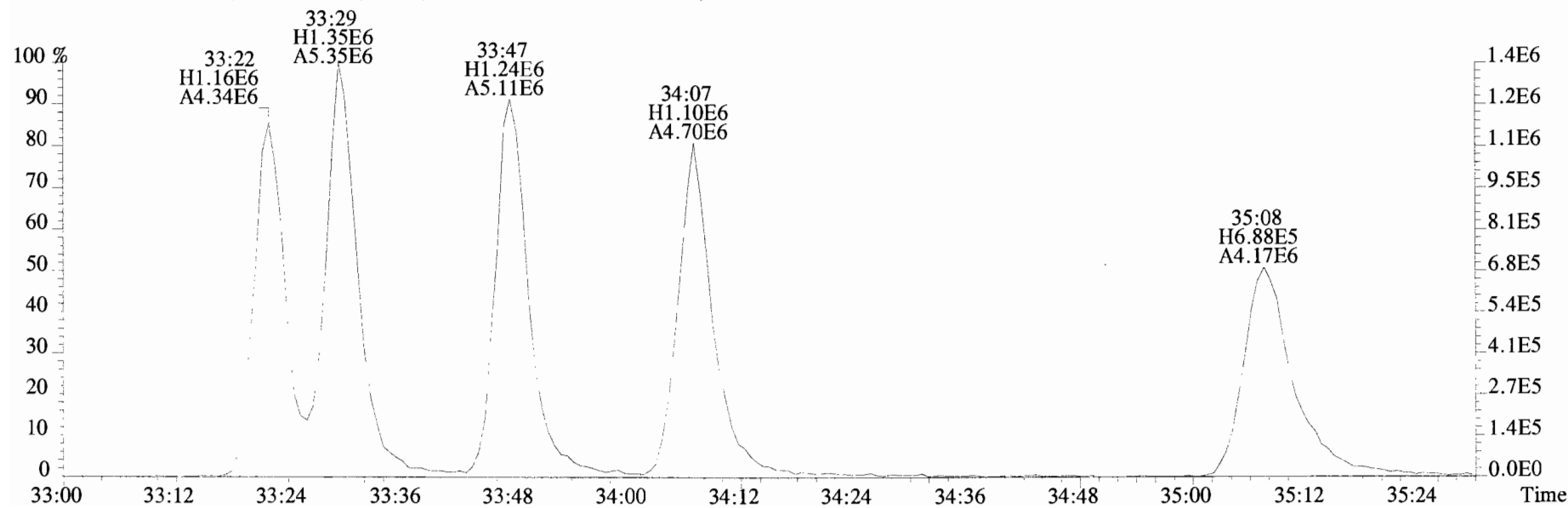
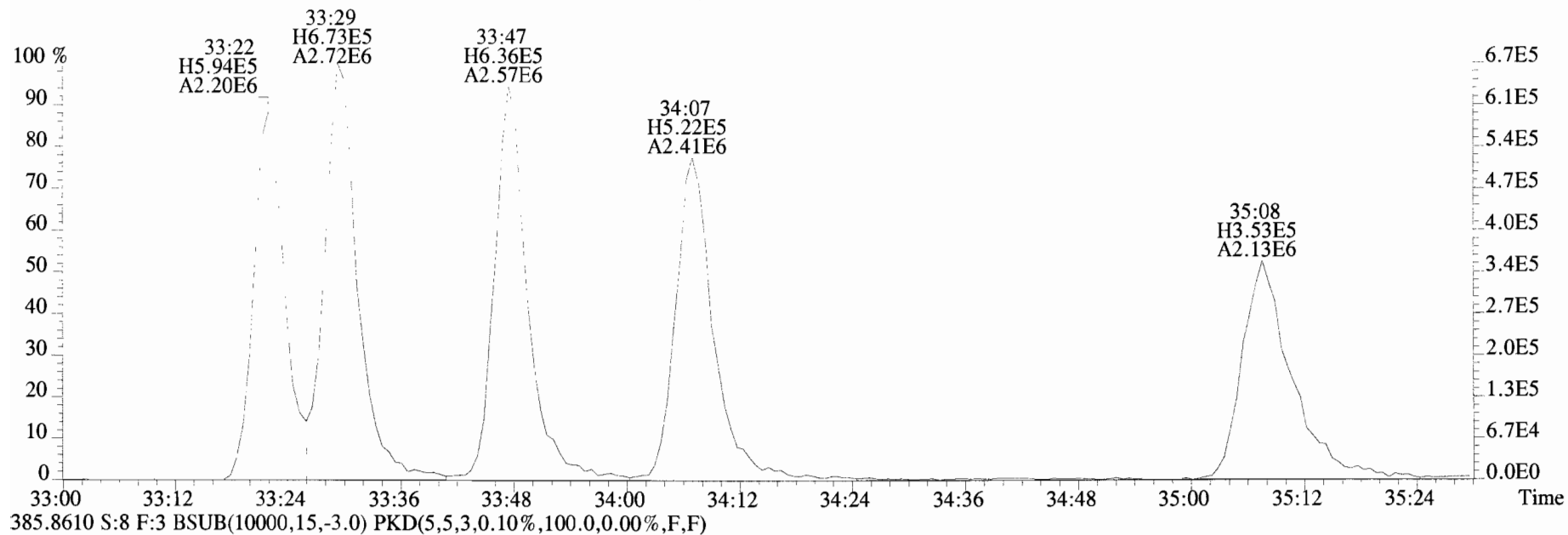
385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



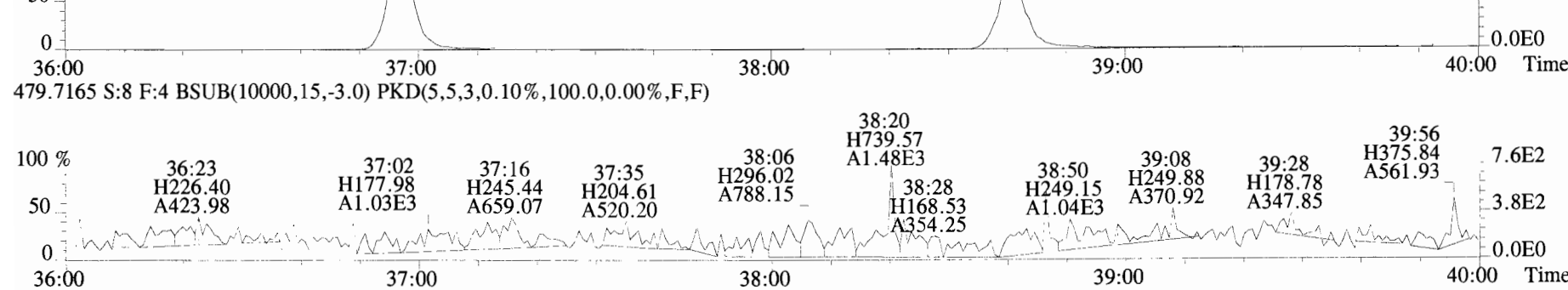
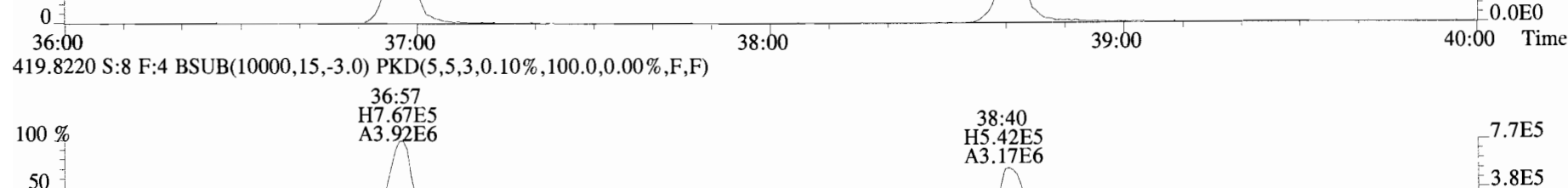
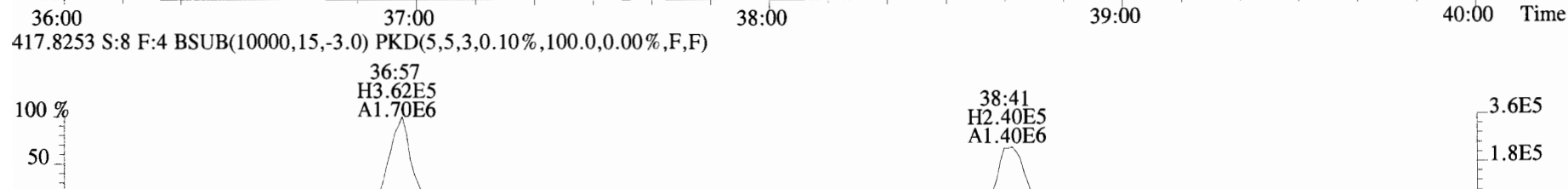
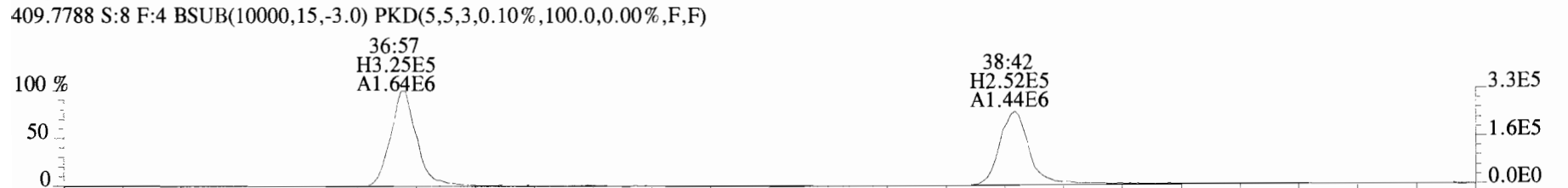
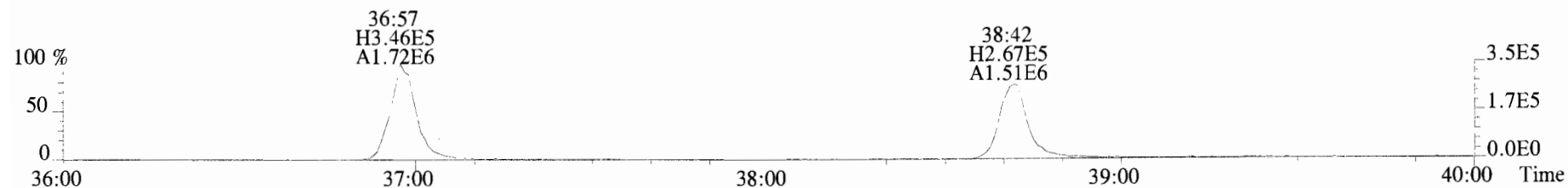
445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



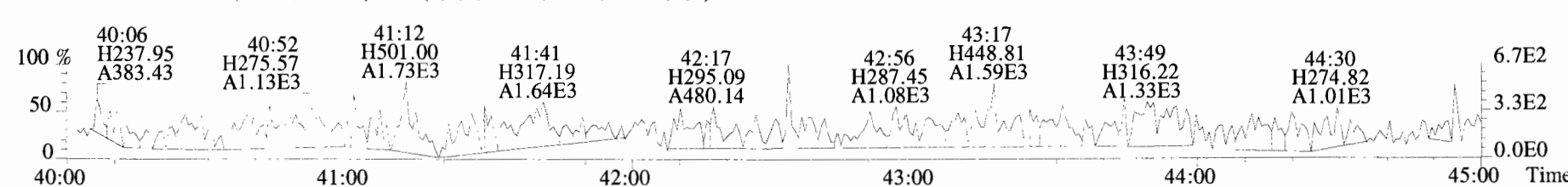
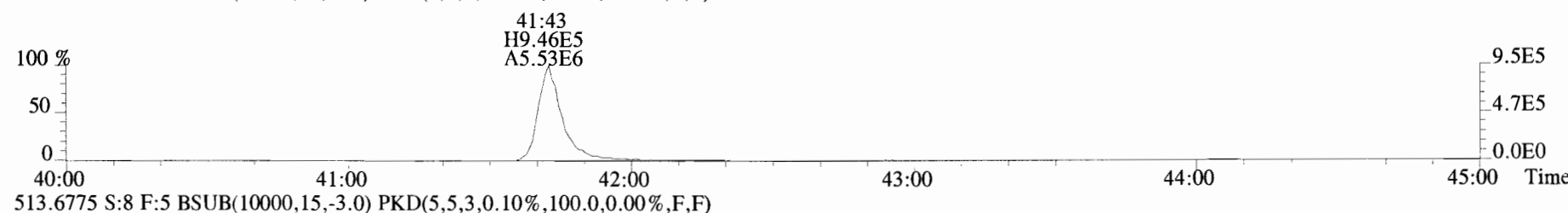
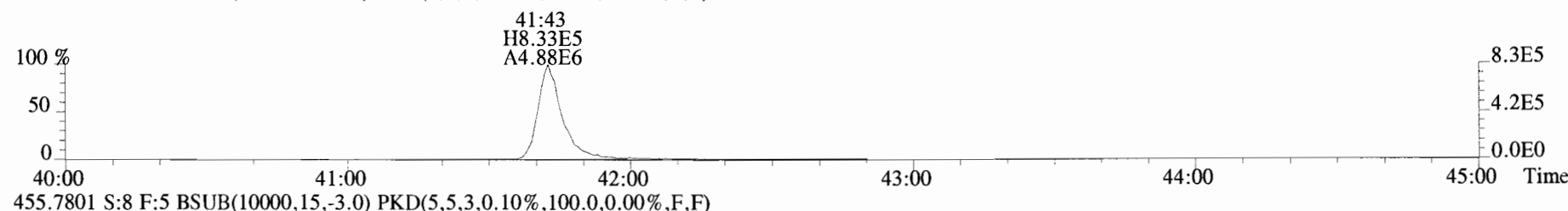
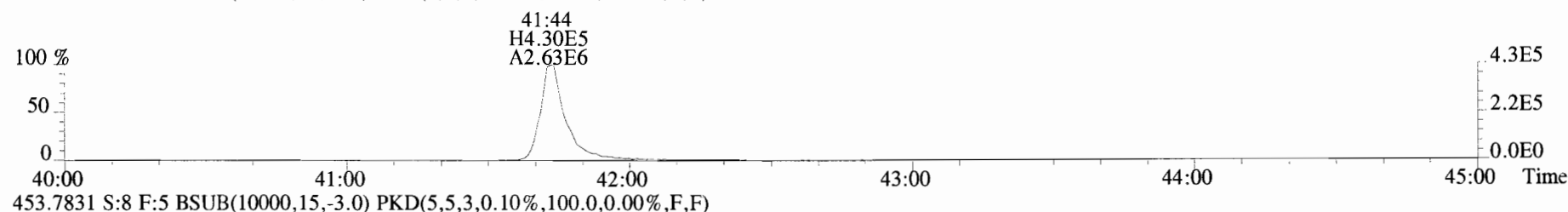
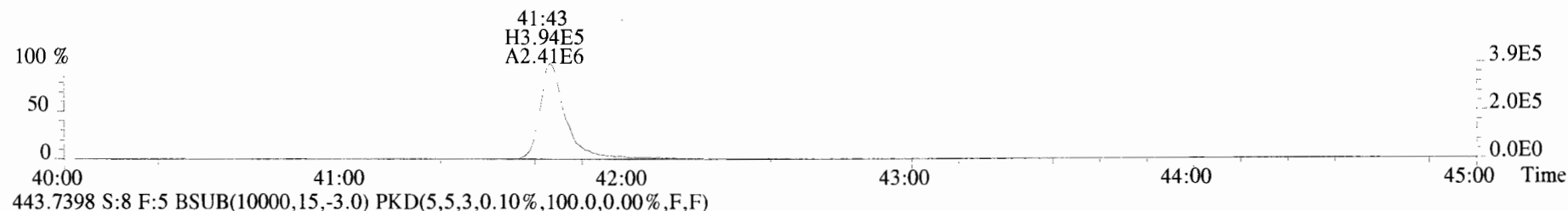
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

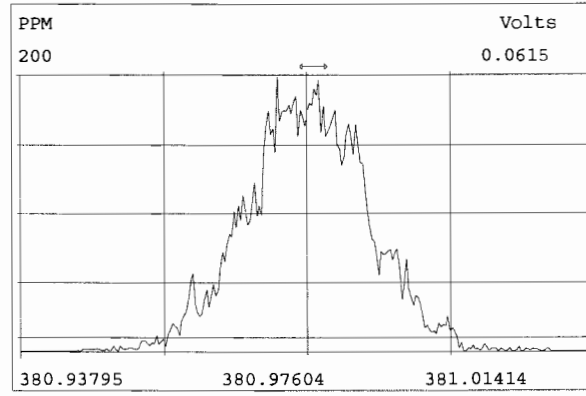
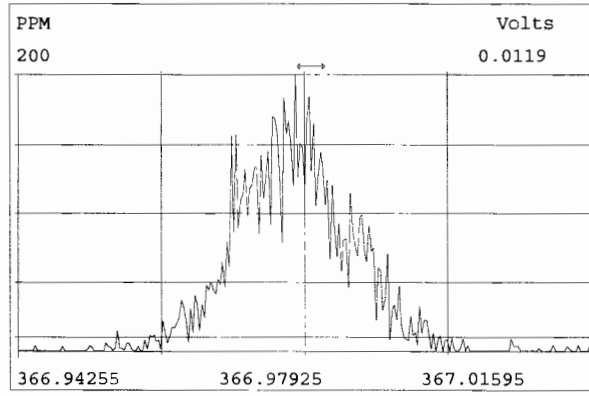
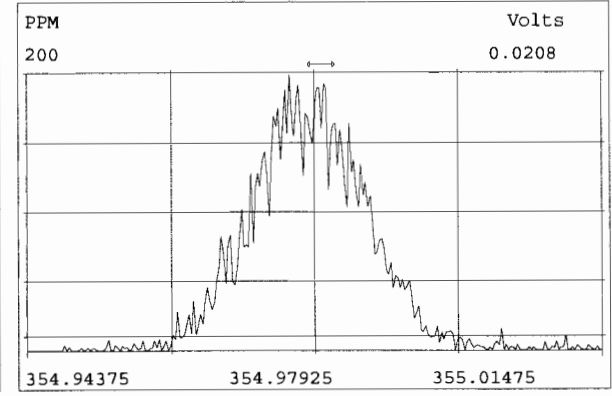
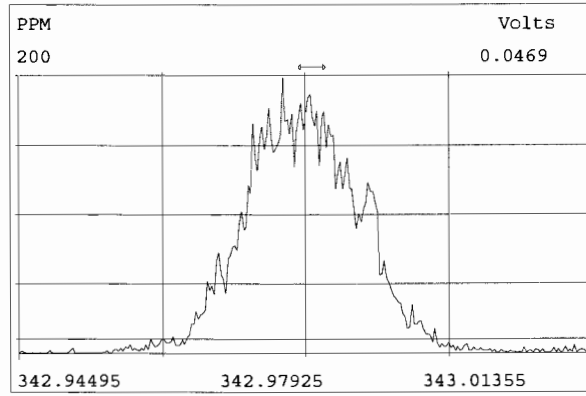
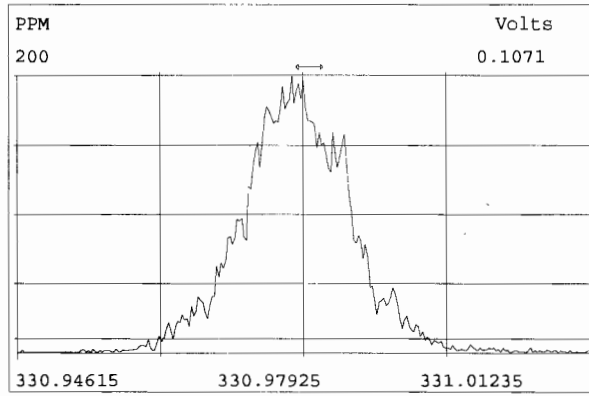
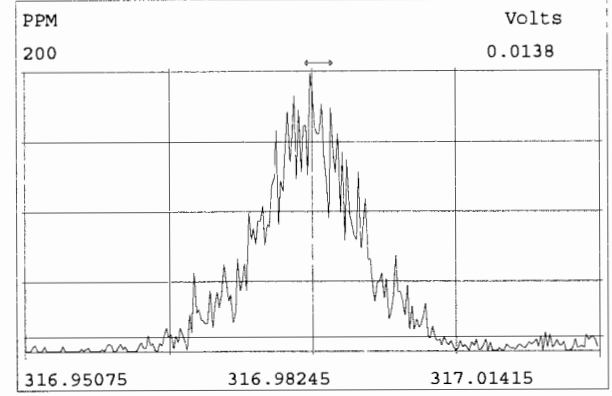
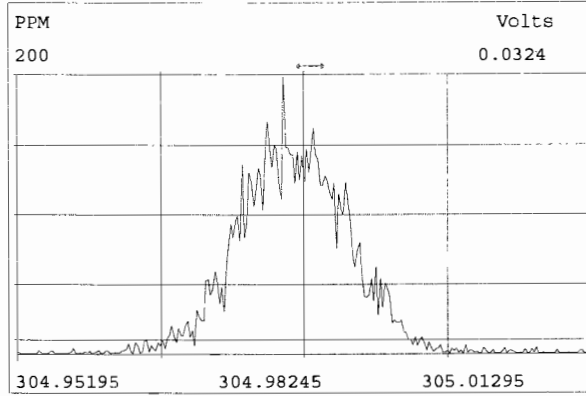
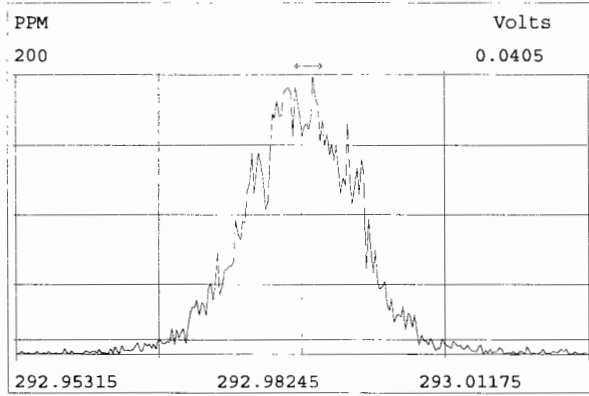
Filename: 190530D1 S: 8 Acquired: 30-MAY-19 14:44:52
Run: Analyte: TCDF Cal: 1613TCDFVG7-5-30-19Results:
Sample text: ST190530D1-6 1613 CS5 19C2206

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

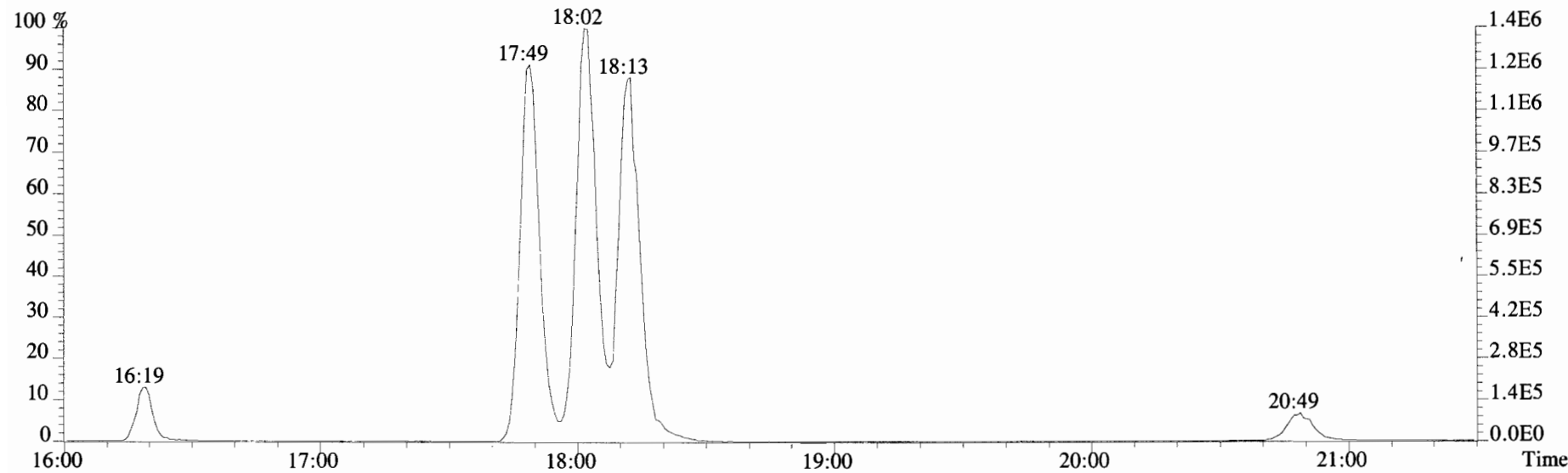
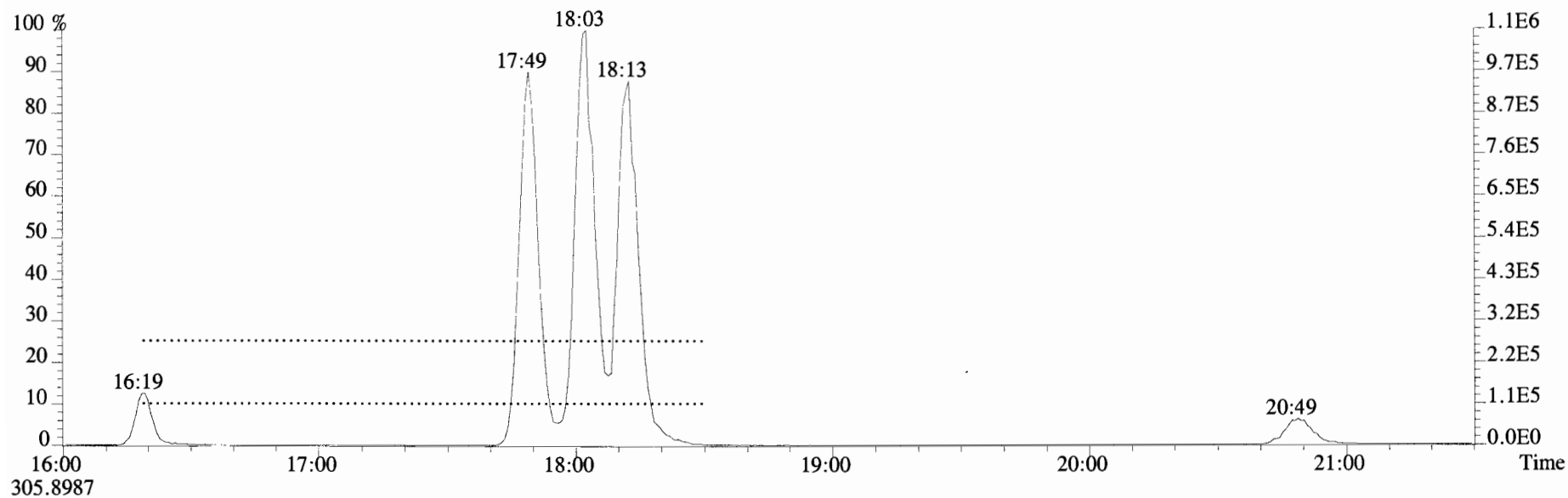
DB
5/30/19

Vista Analytical Laboratory - Injection Log Run file: 190530D1 Instrument ID: VG-7 GC Column ID: DB-225

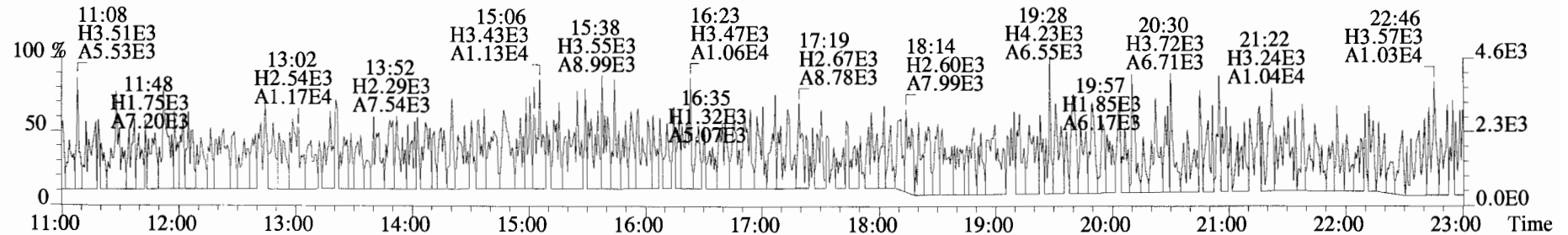
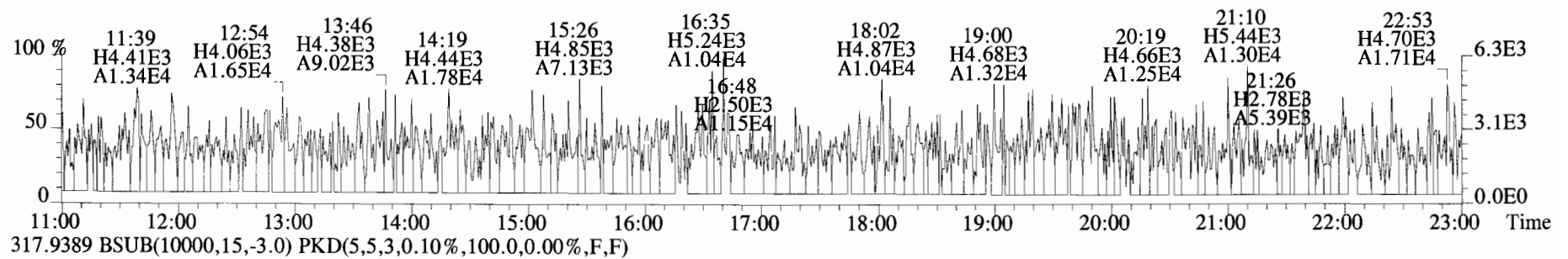
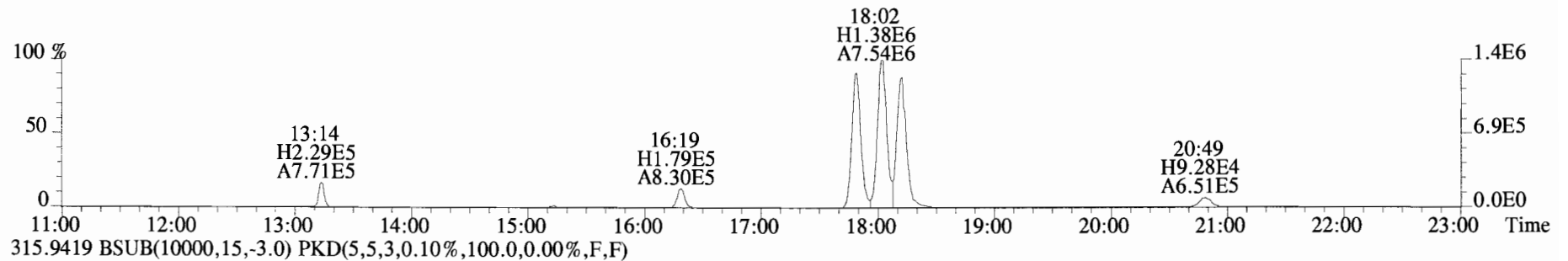
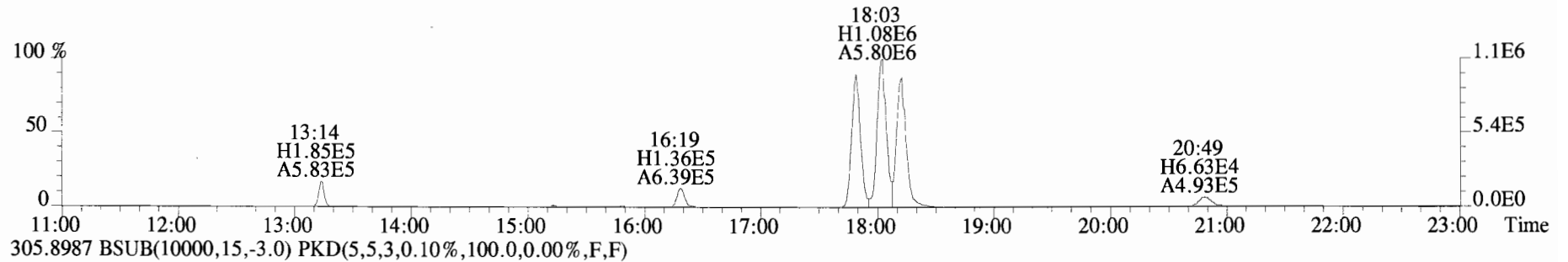
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190530D1	2	SOLVENT BLANK	DB	30-MAY-19	11:33:52	ST190530D1-4	NA
190530D1	3	ST190530D1-1	DB	30-MAY-19	12:05:38	ST190530D1-4	NA
190530D1	4	ST190530D1-2	DB	30-MAY-19	12:37:29	ST190530D1-4	NA
190530D1	5	ST190530D1-3	DB	30-MAY-19	13:09:20	ST190530D1-4	NA
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
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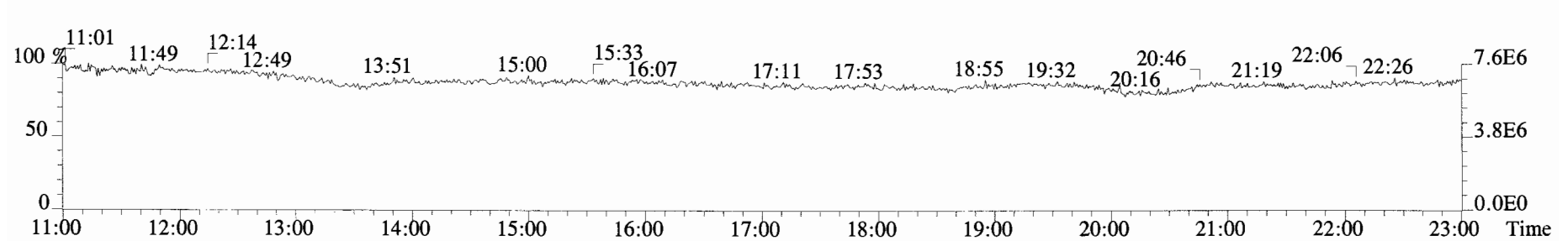
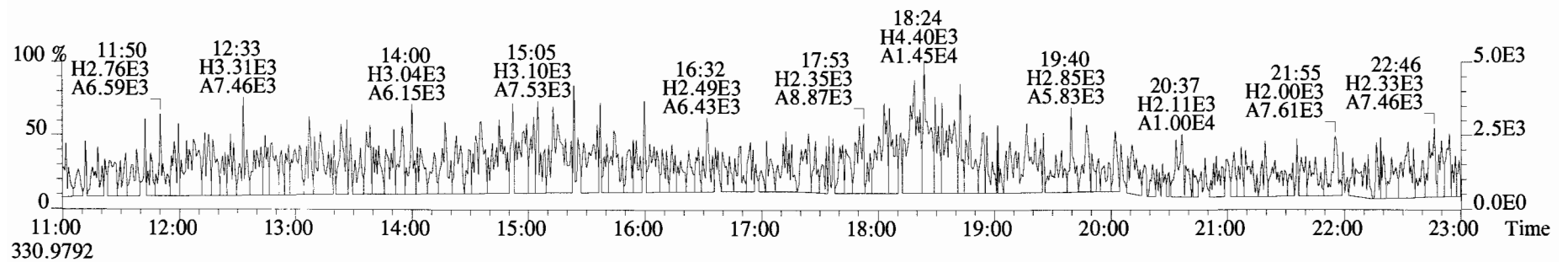
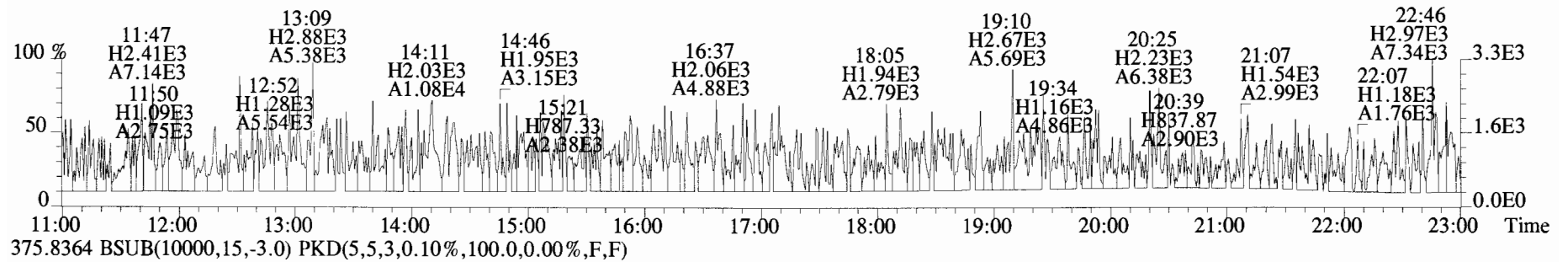
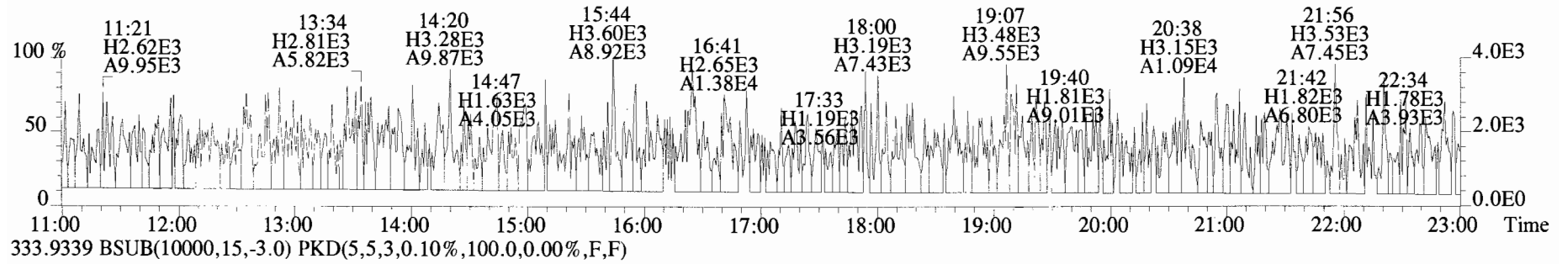
File:190530D1 #1-1559 Acq:30-MAY-2019 11:02:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:CP190530D1-1 DB225 CPSM Exp:TCDF_DB225
303.9016



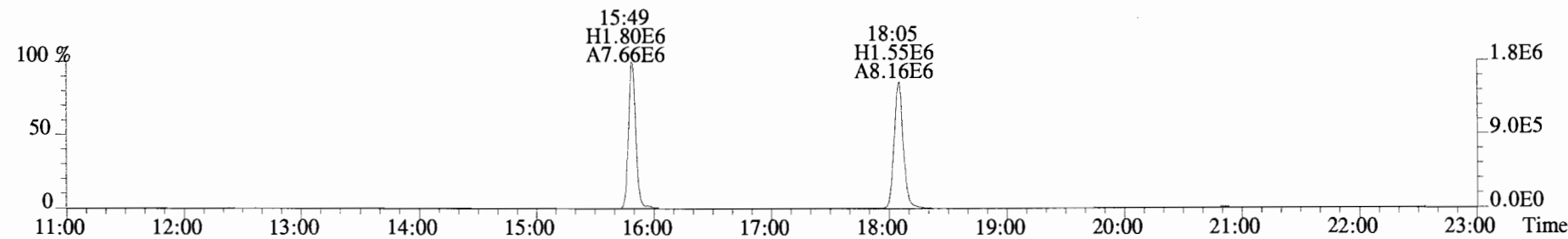
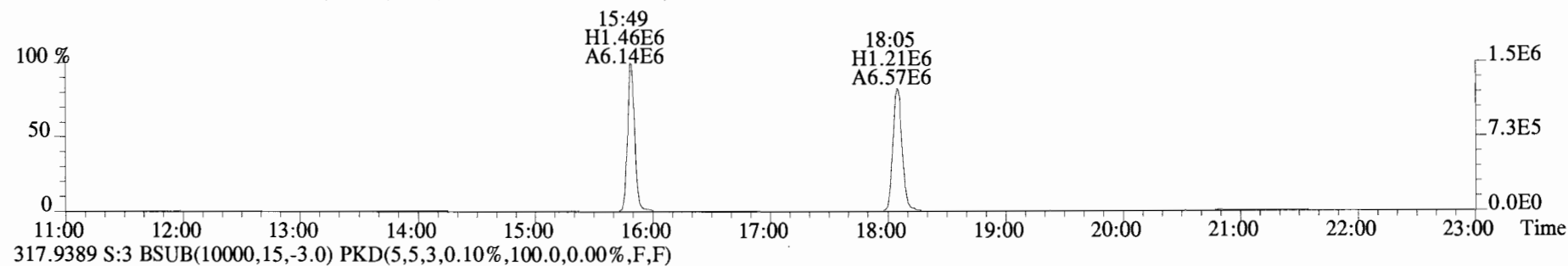
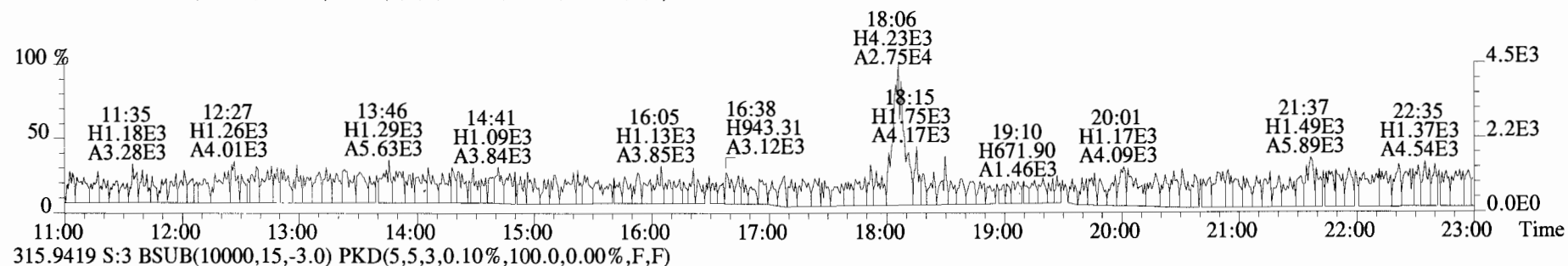
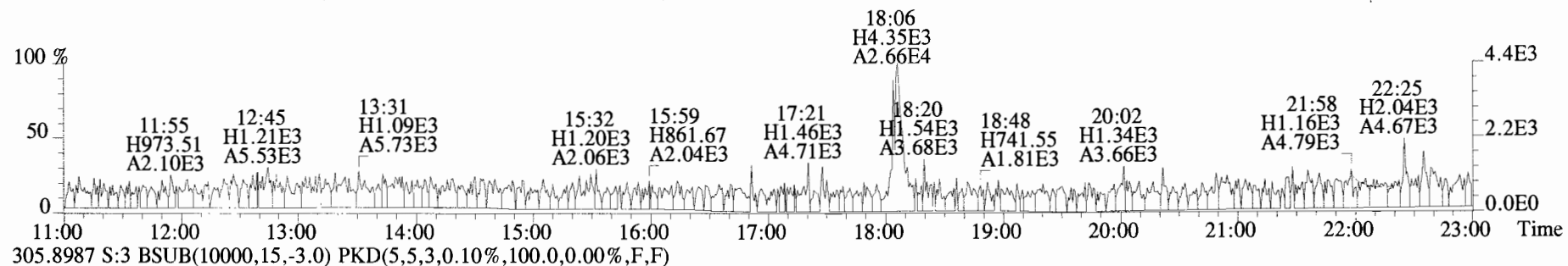
File:190530D1 #1-1682 Acq:30-MAY-2019 11:02:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:CP190530D1-1 DB225 CPSM Exp:TCDF_DB225
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



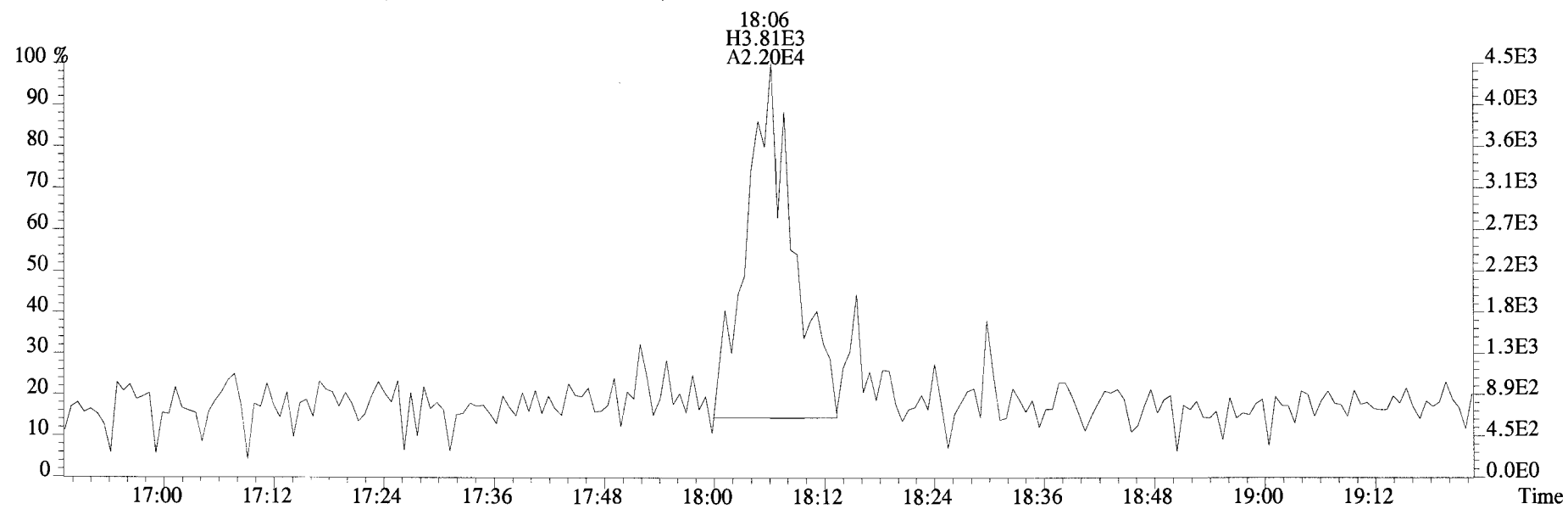
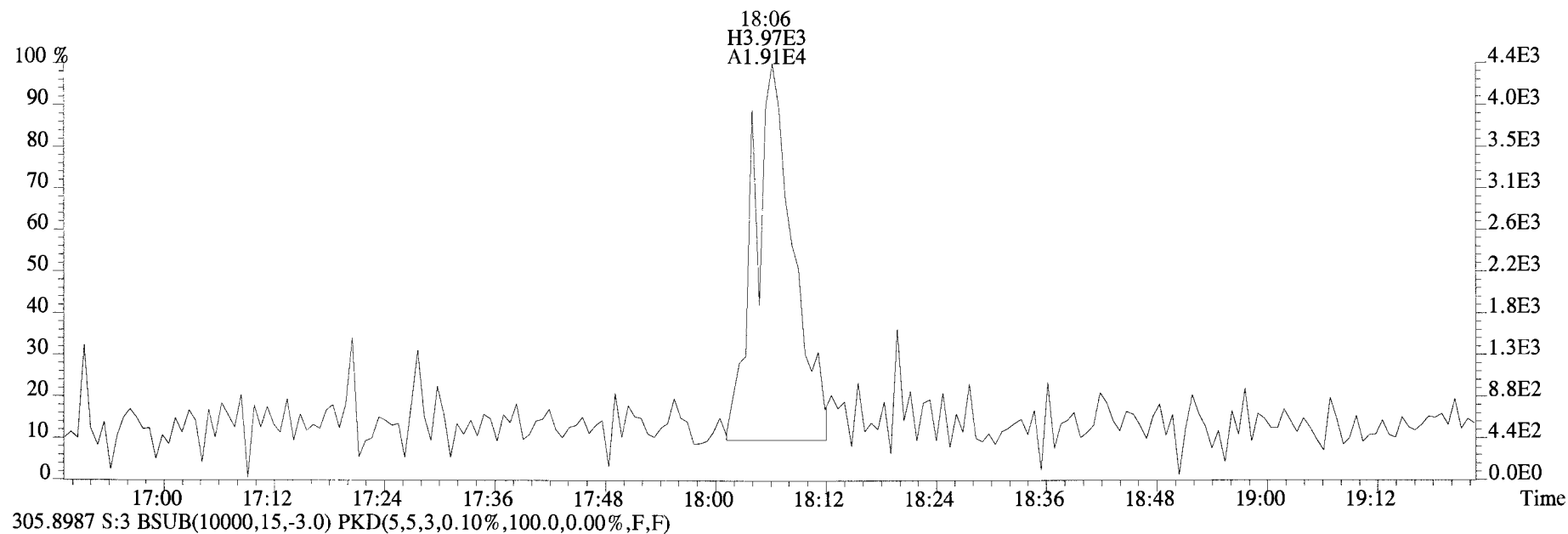
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Sample#1 File Text:Vista Analytical Laboratory VG7 Text:CP190530D1-1 DB225 CPSM Exp:TCDF_DB225
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



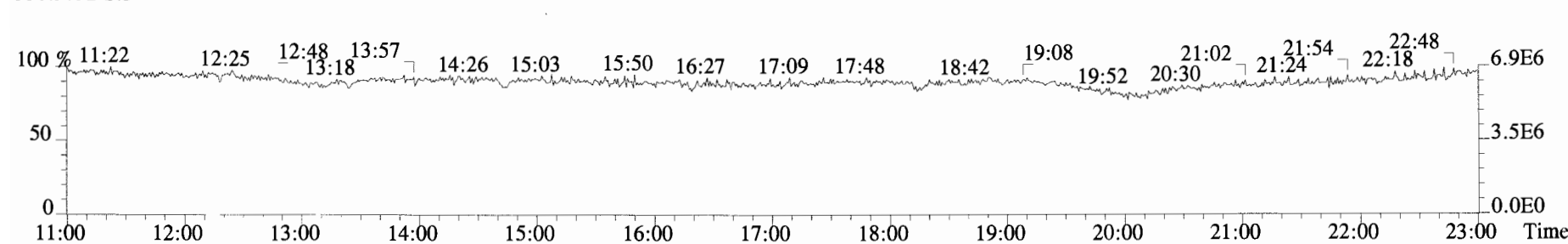
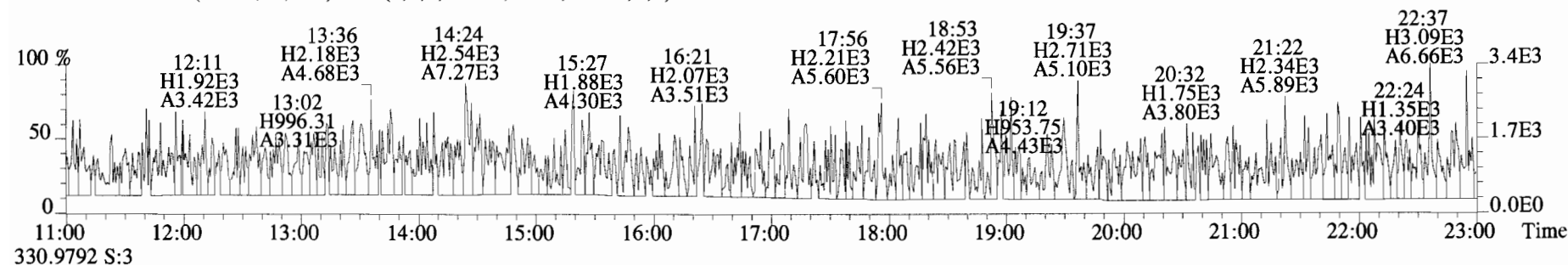
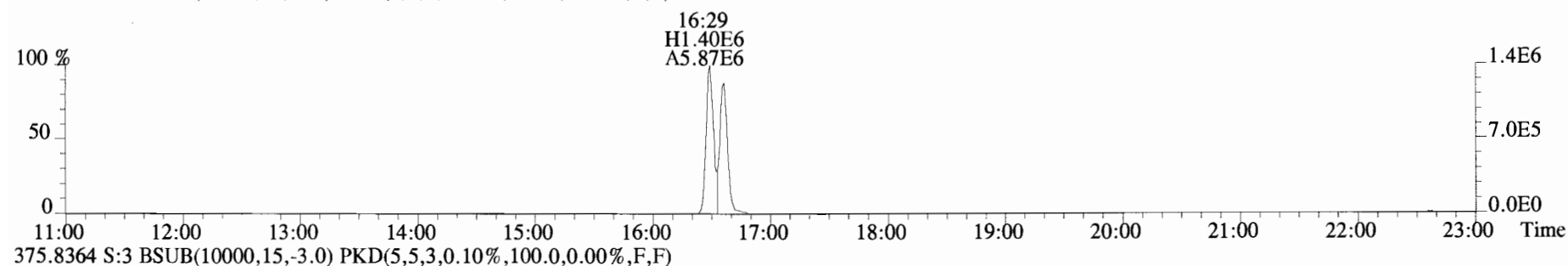
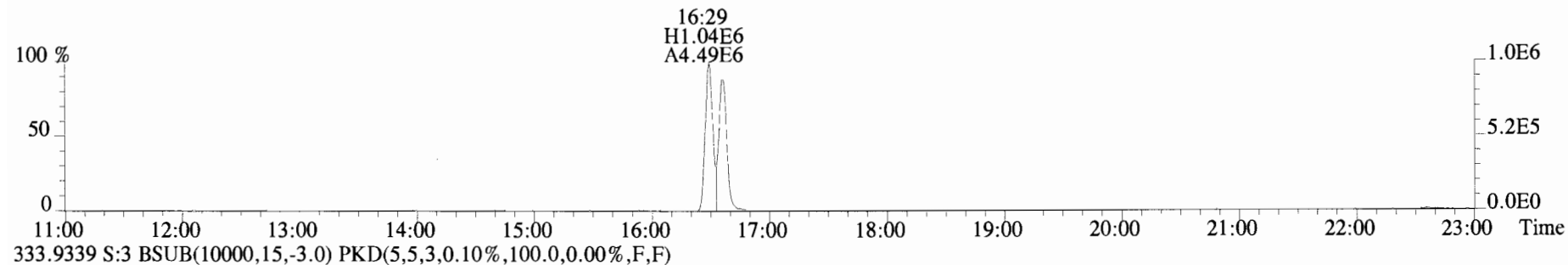
File:190530D1 #1-1682 Acq:30-MAY-2019 12:05:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-1 1613 CS0 19C2201 Exp:TCDF_DB225
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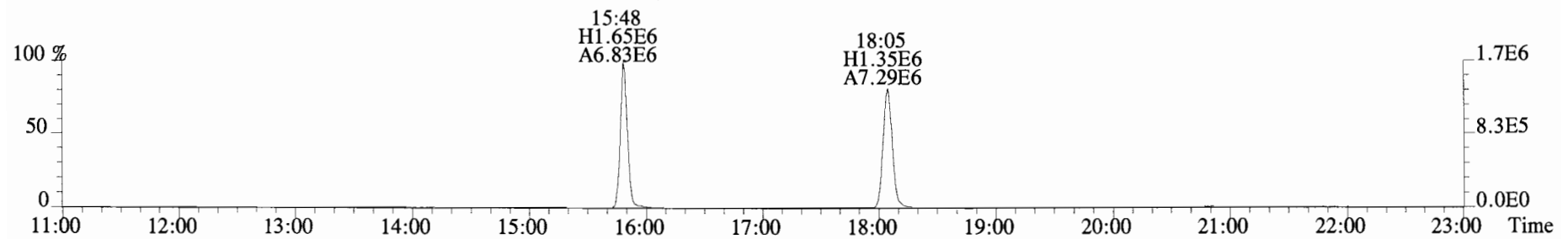
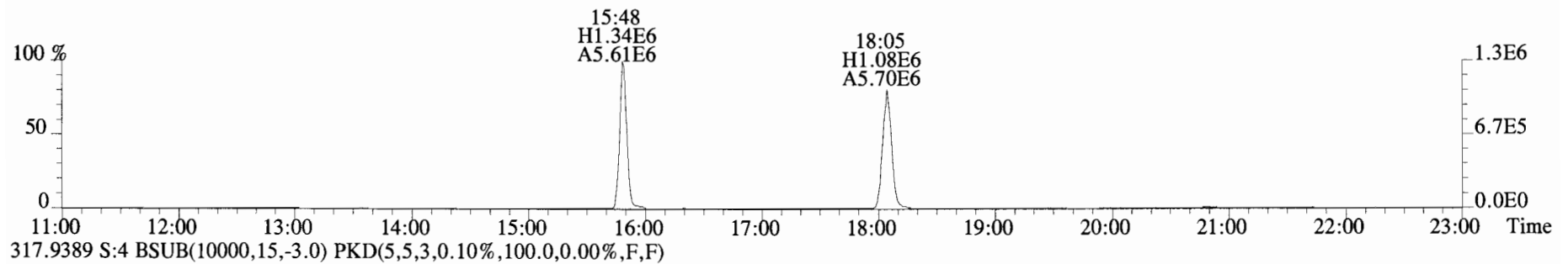
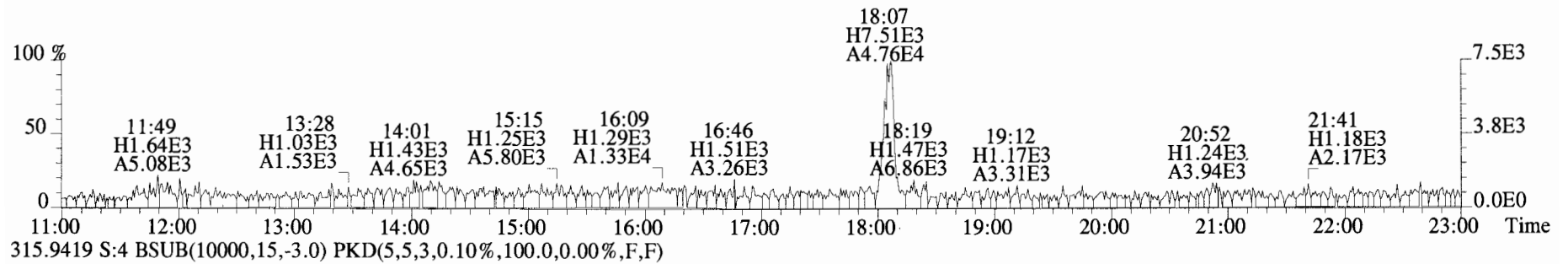
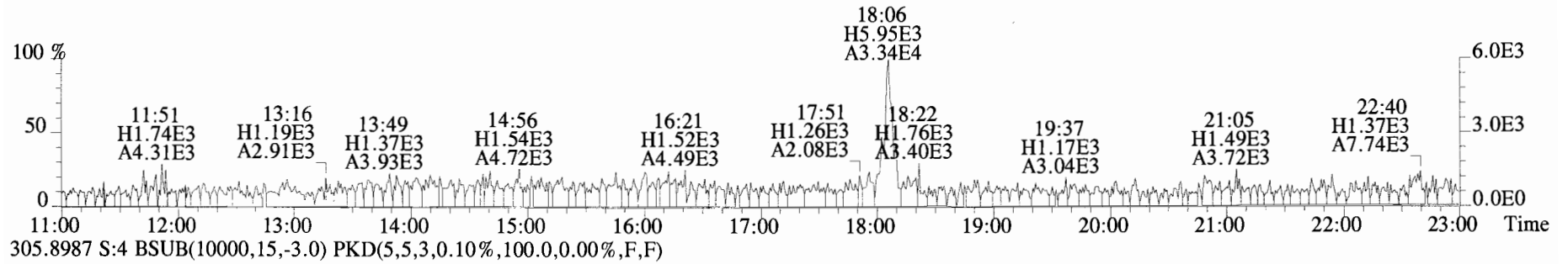
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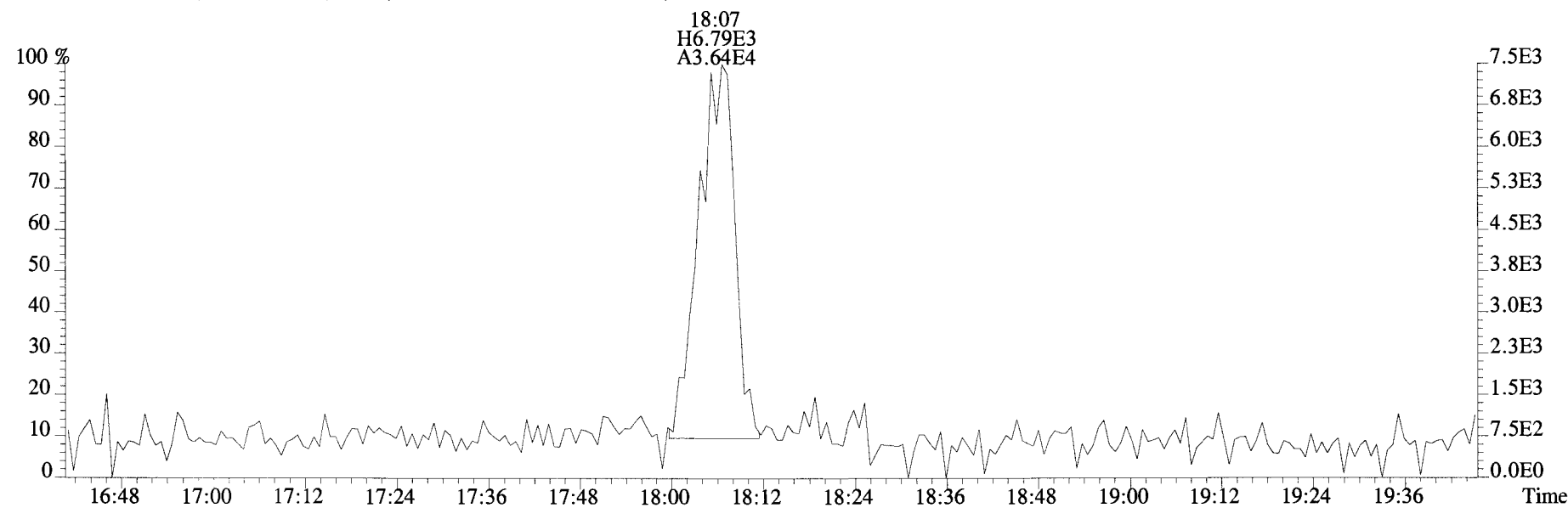
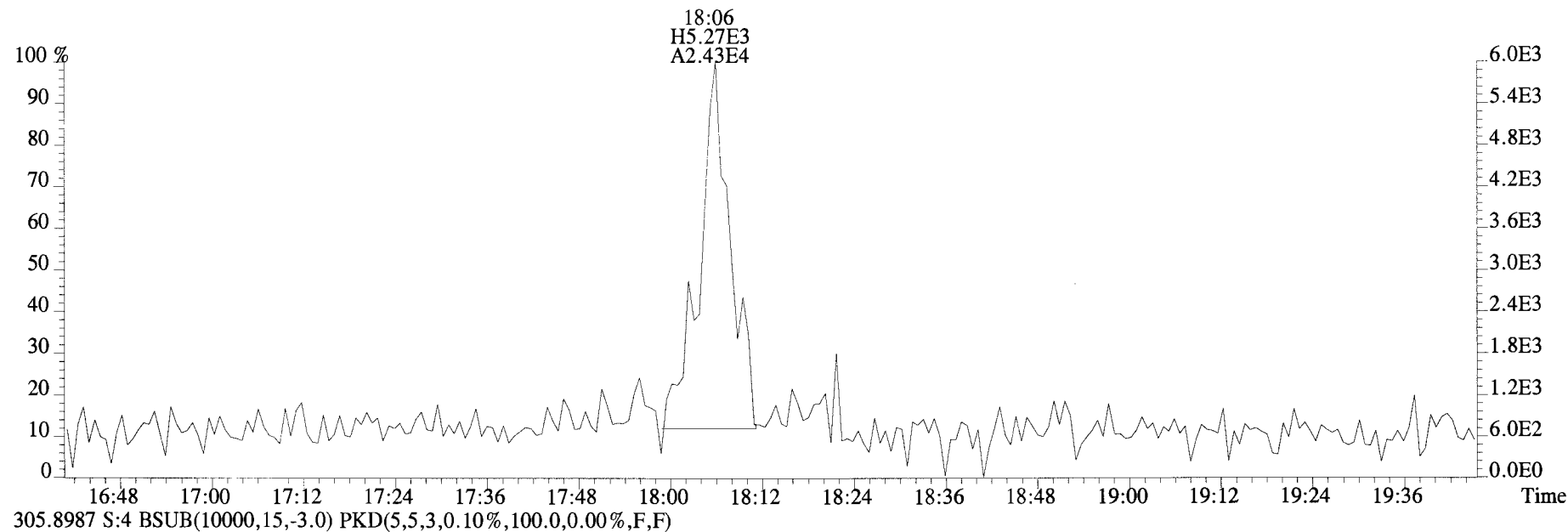
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Sample#3 File Text:Vista Analytical Laboratory_VG7 Text:ST190530D1-1 1613 CS0 19C2201 Exp:TCDF_DB225
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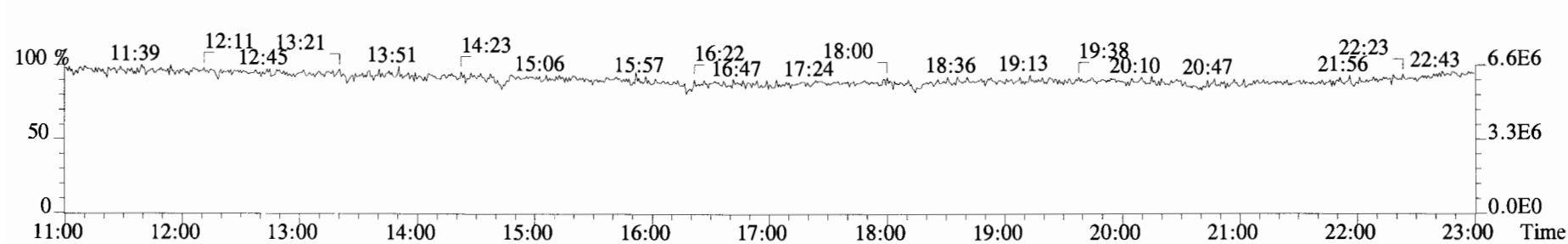
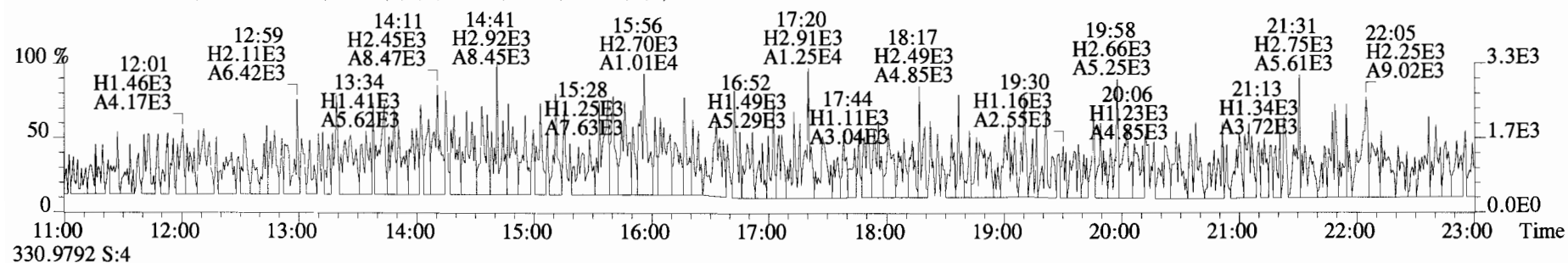
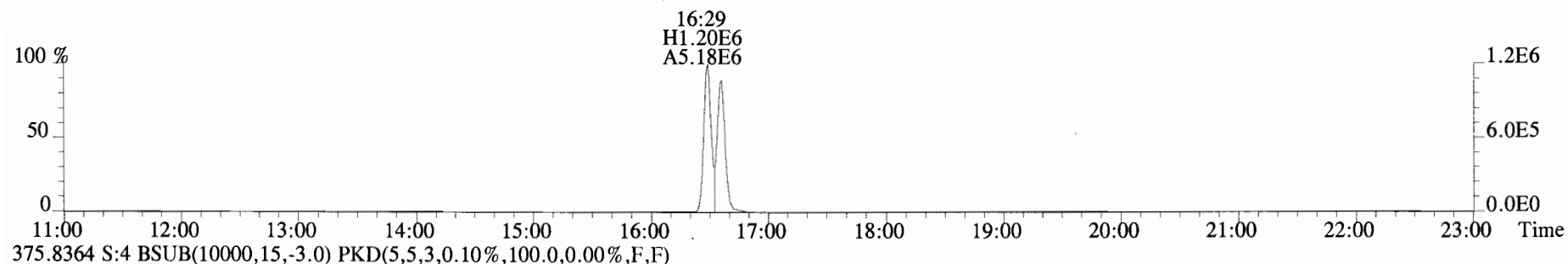
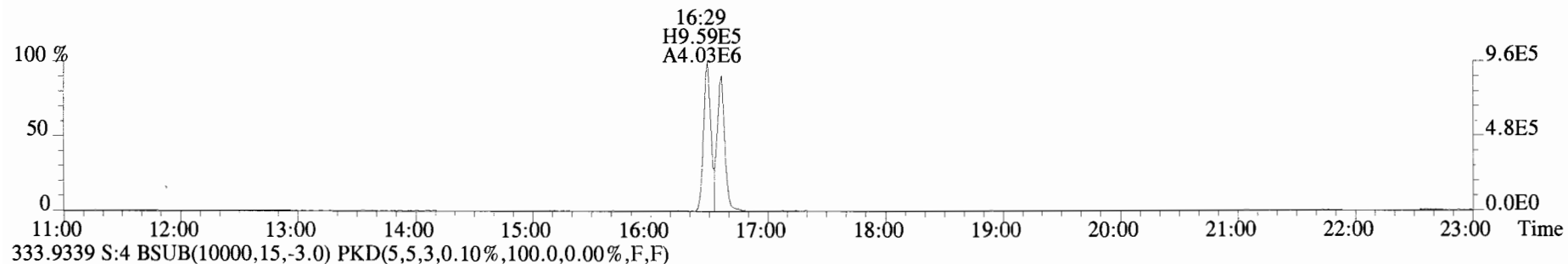
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Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-2 1613 CS1 19C2202 Exp:TCDF_DB225
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



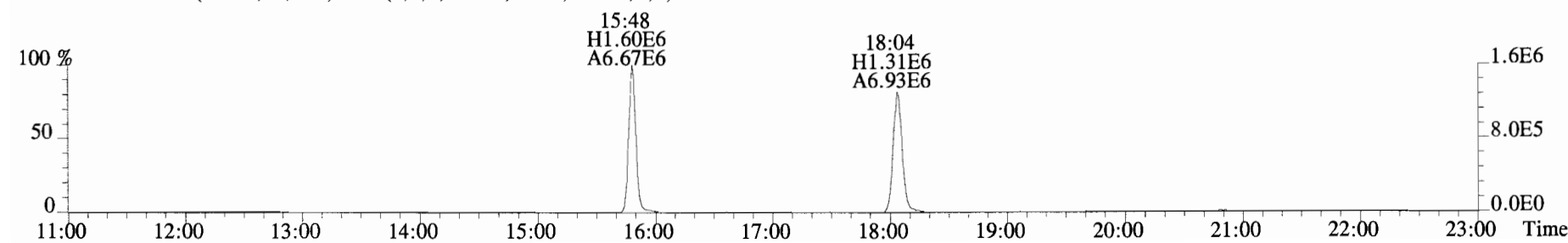
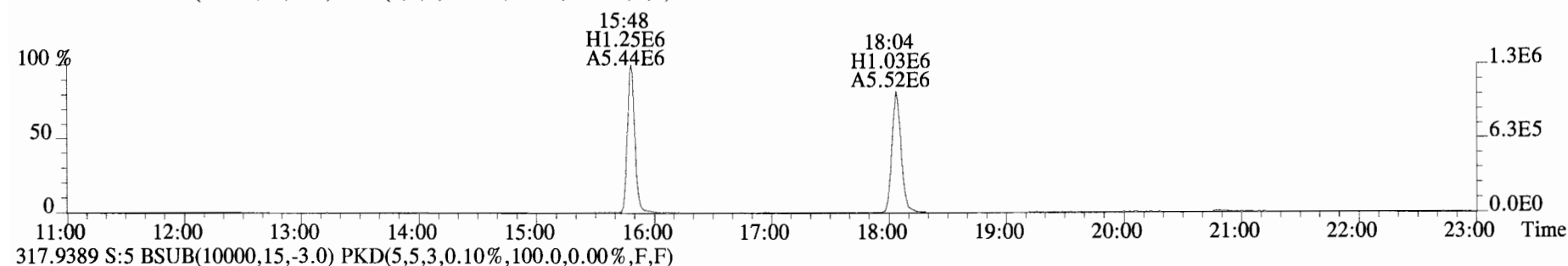
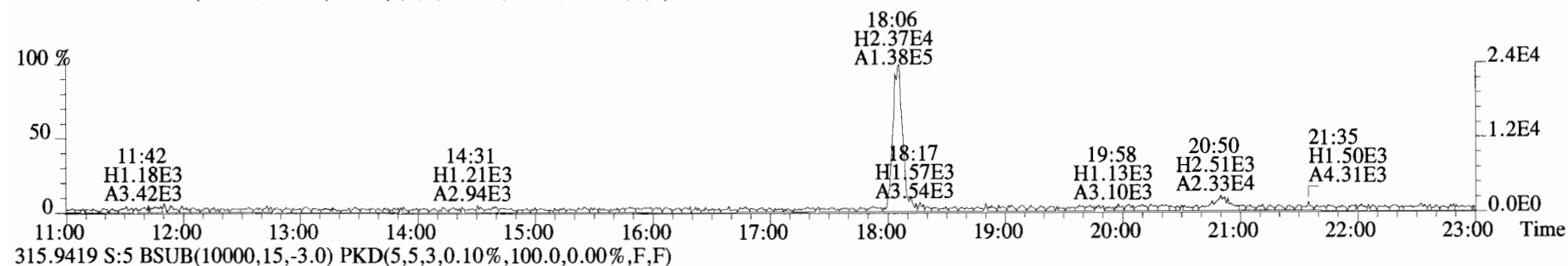
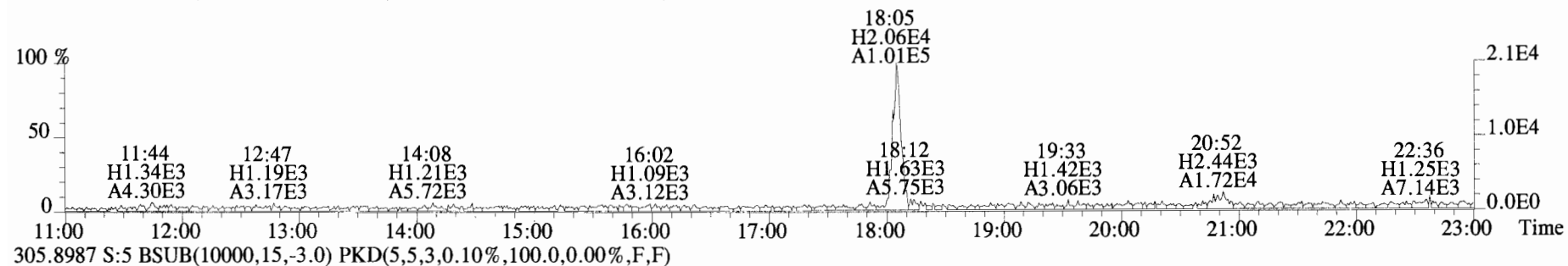
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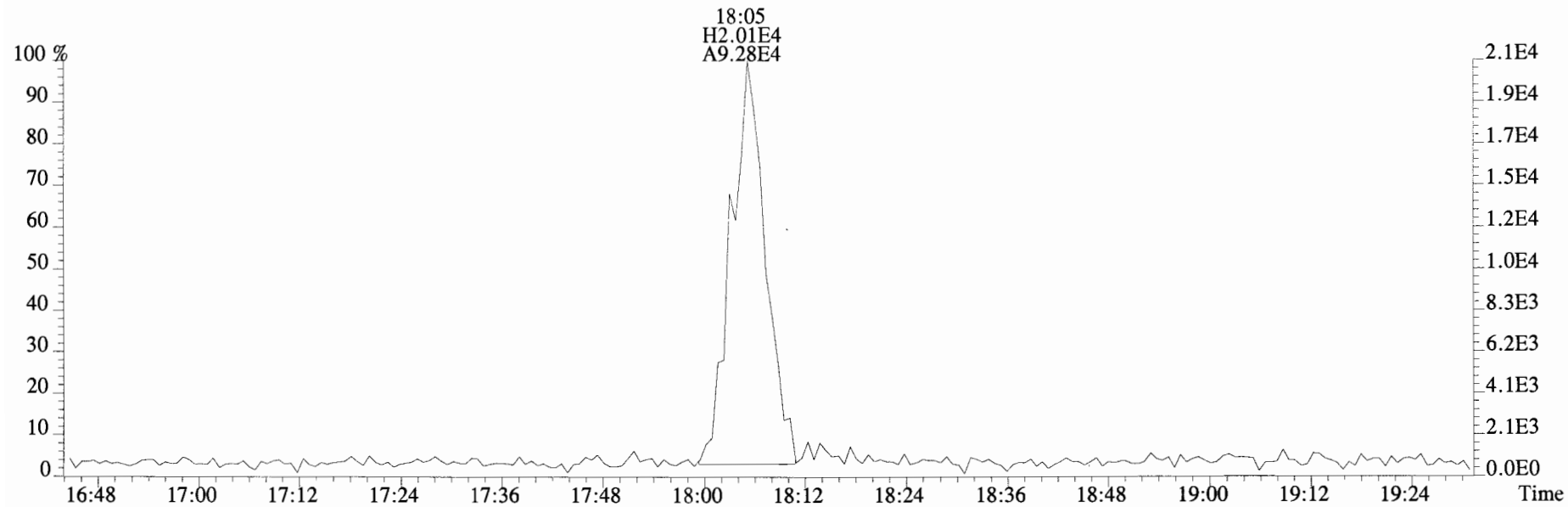
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Sample#4 File Text:Vista Analytical Laboratory_VG7 Text:ST190530D1-2 1613 CS1 19C2202 Exp:TCDF_DB225
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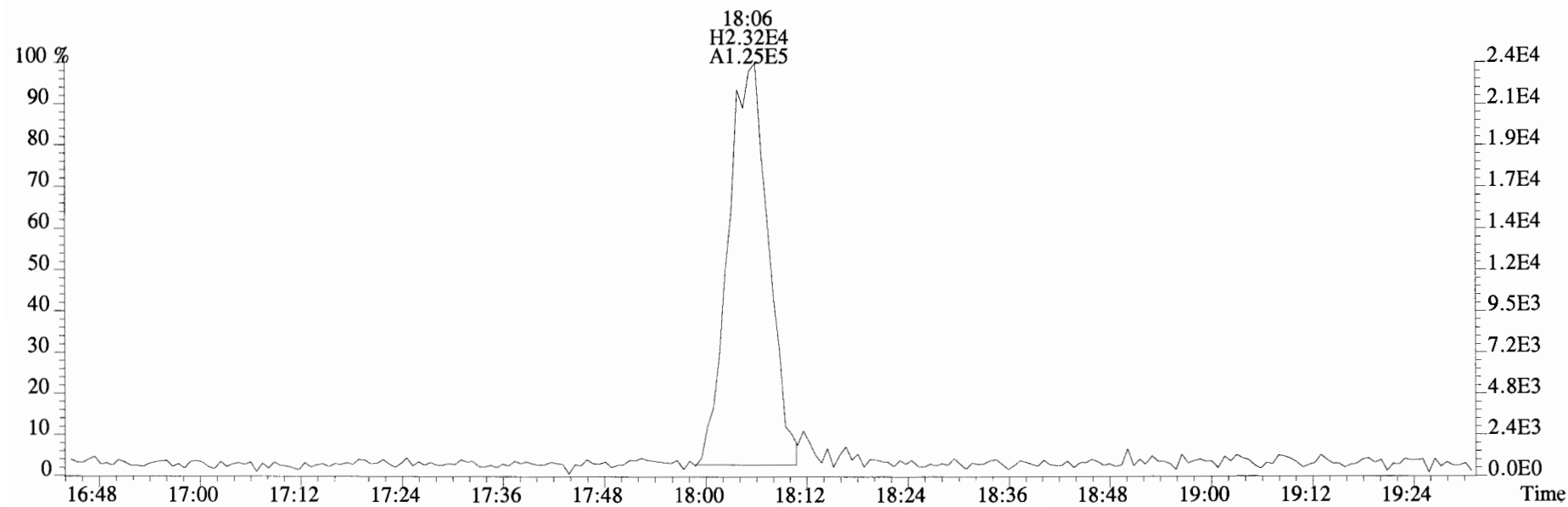
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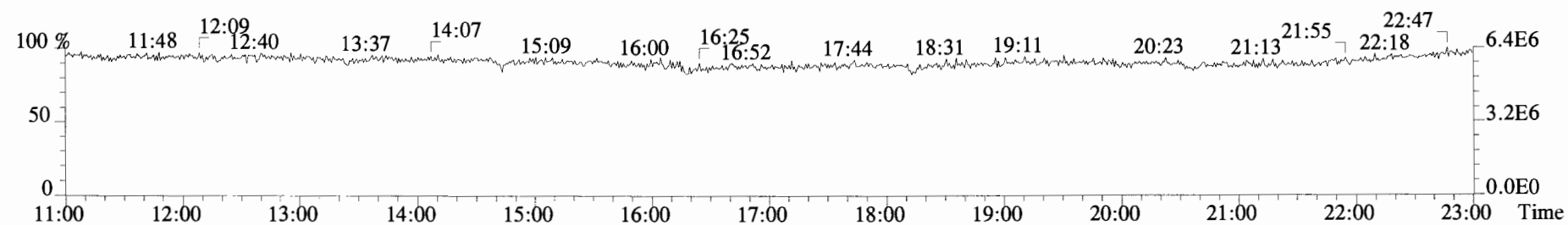
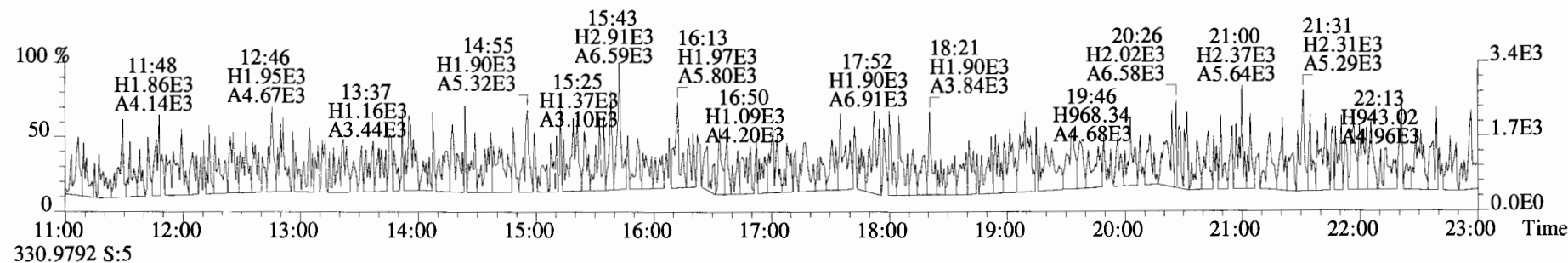
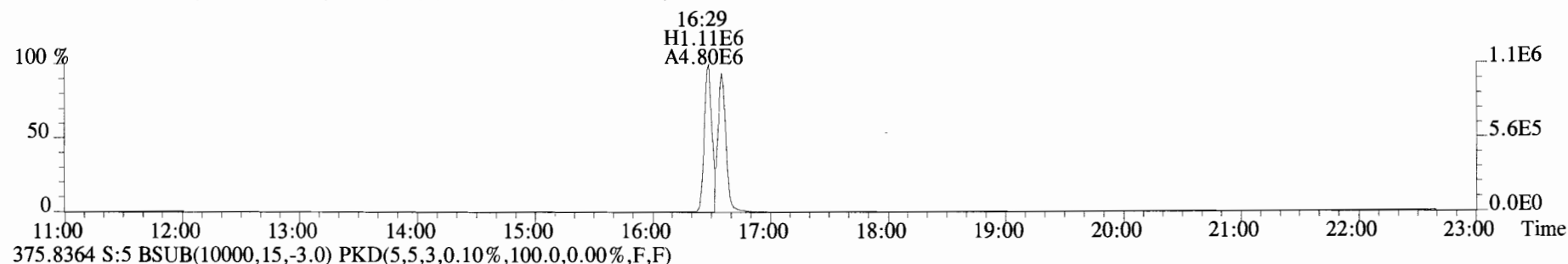
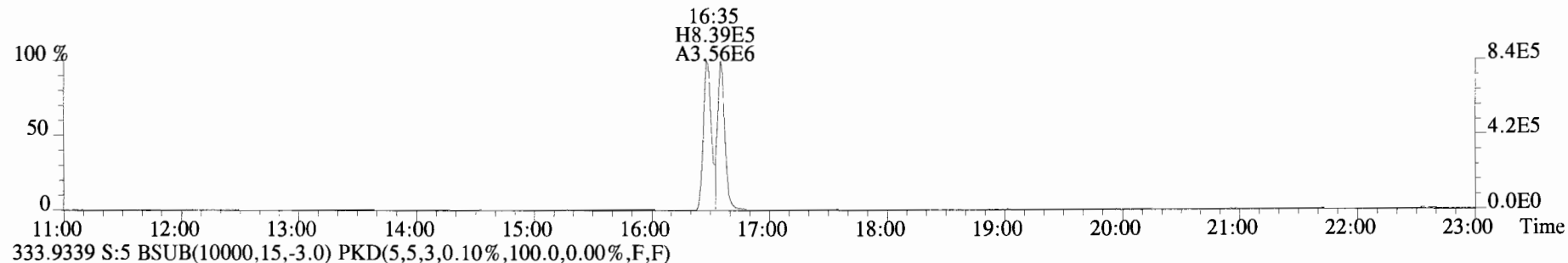
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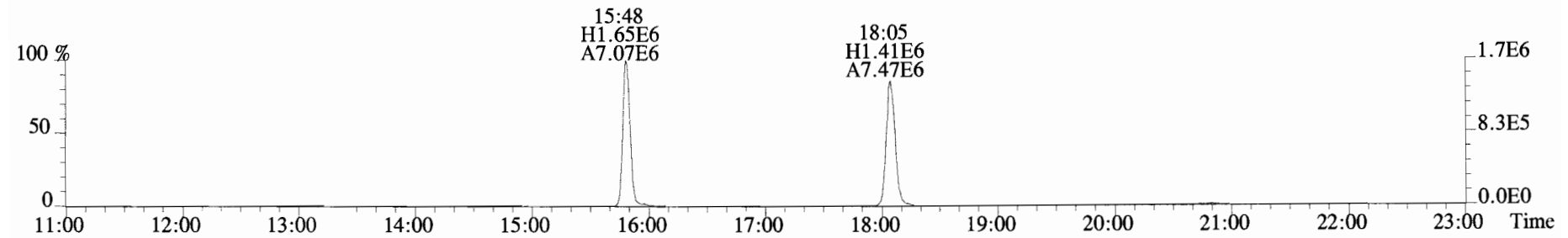
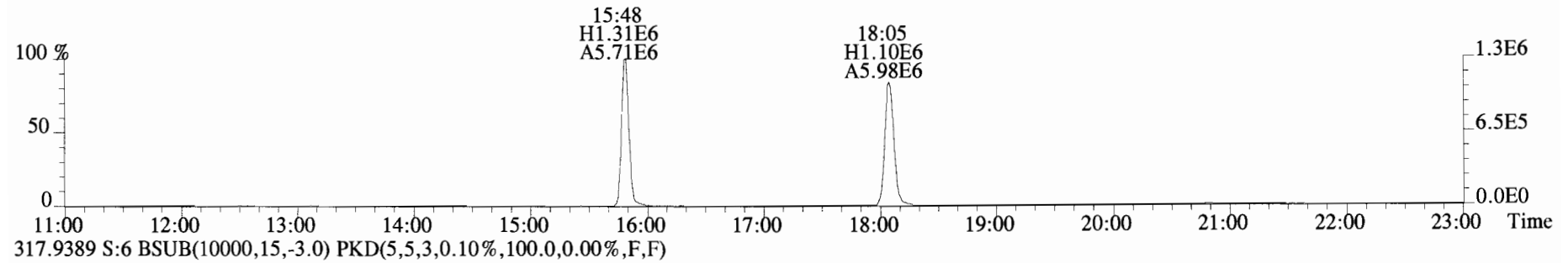
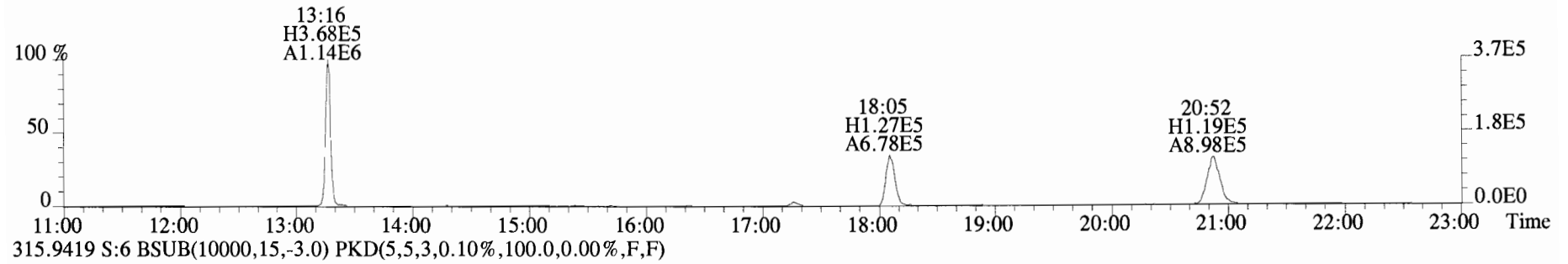
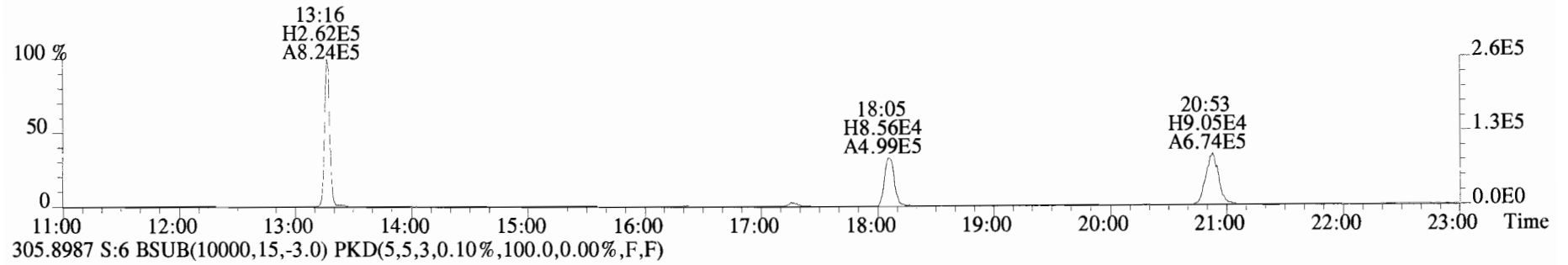
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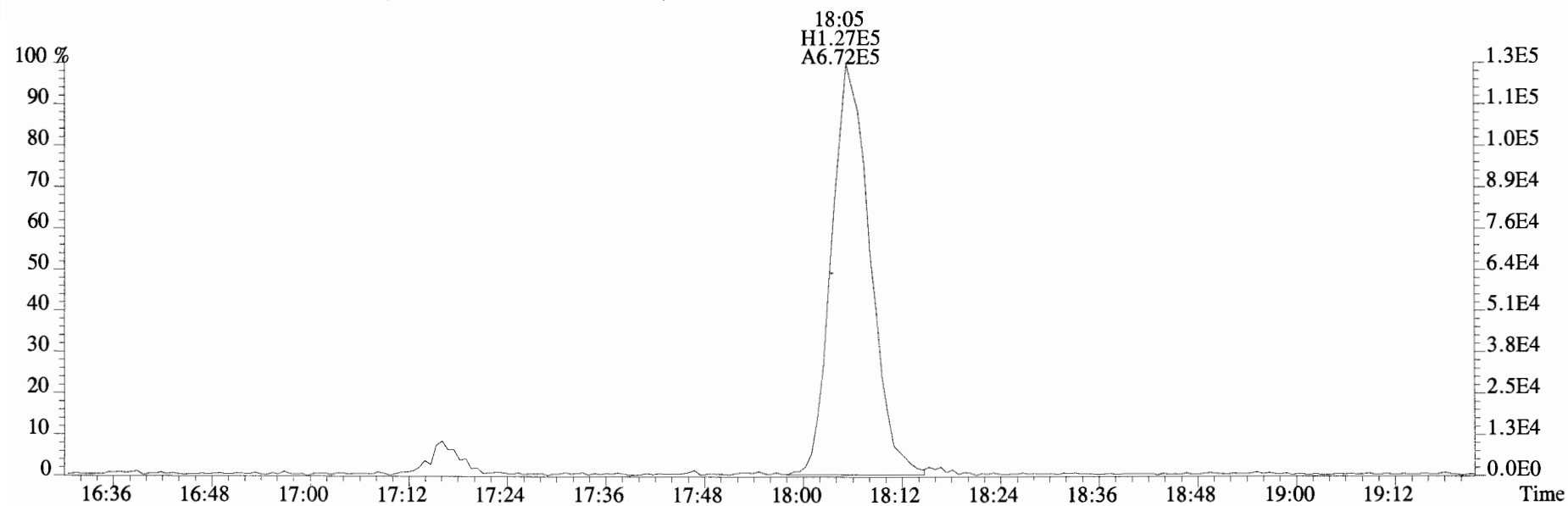
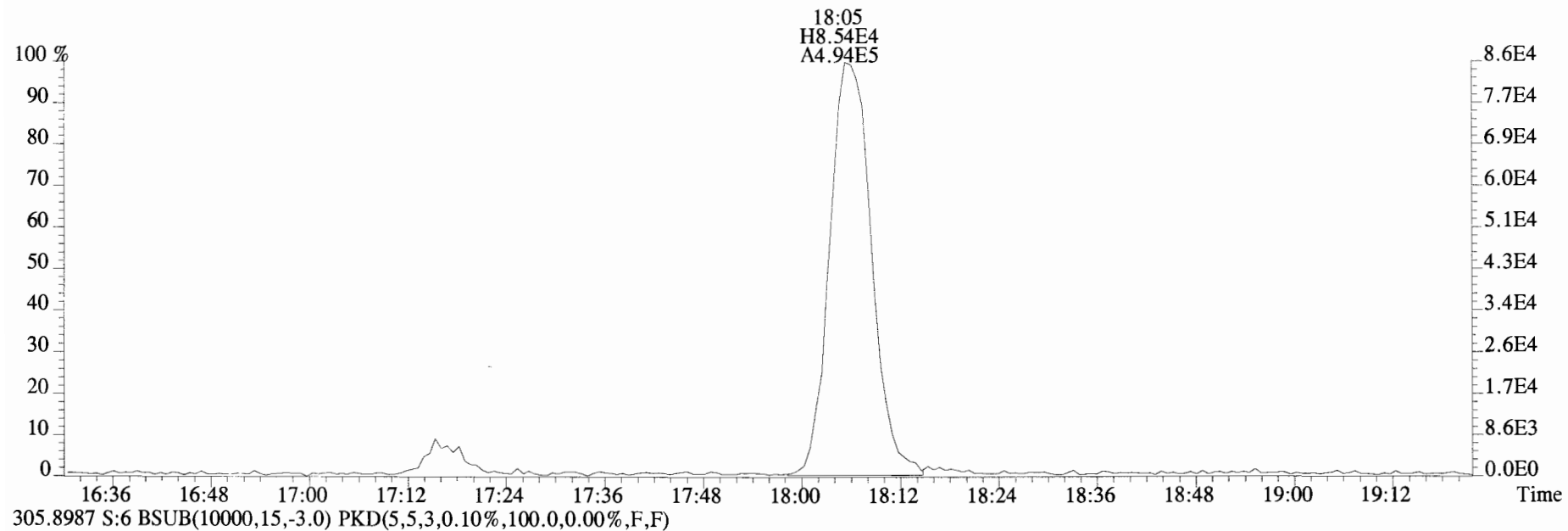
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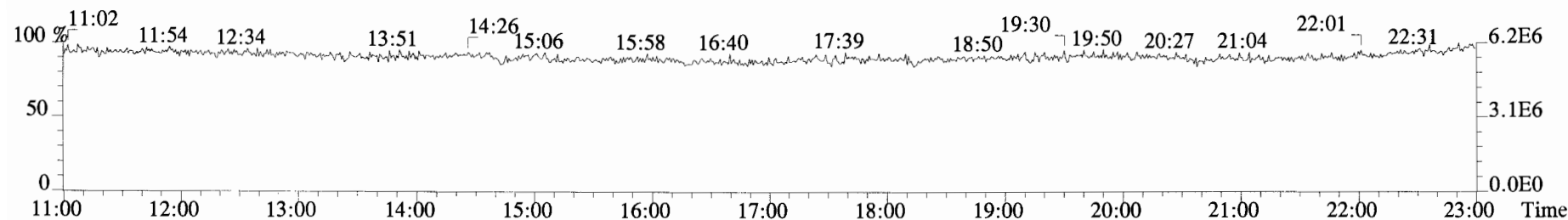
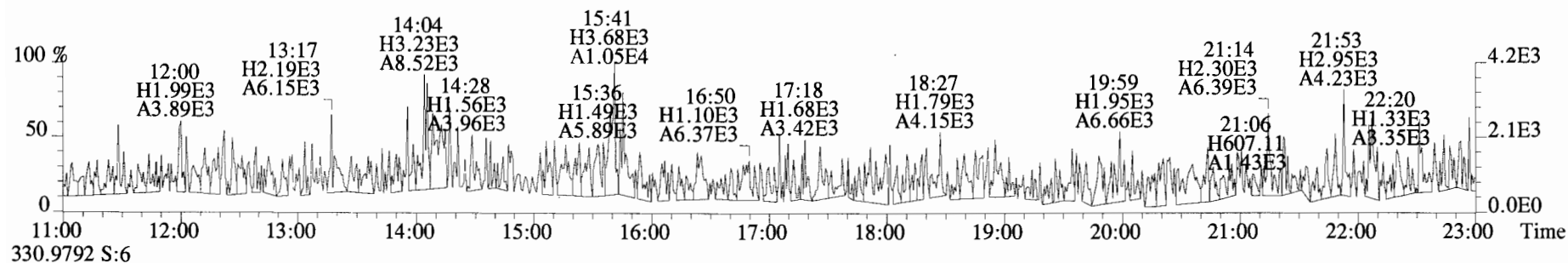
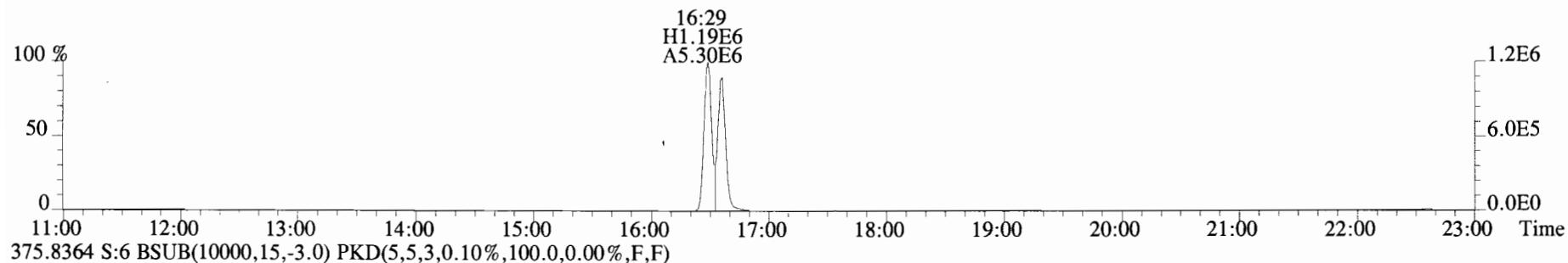
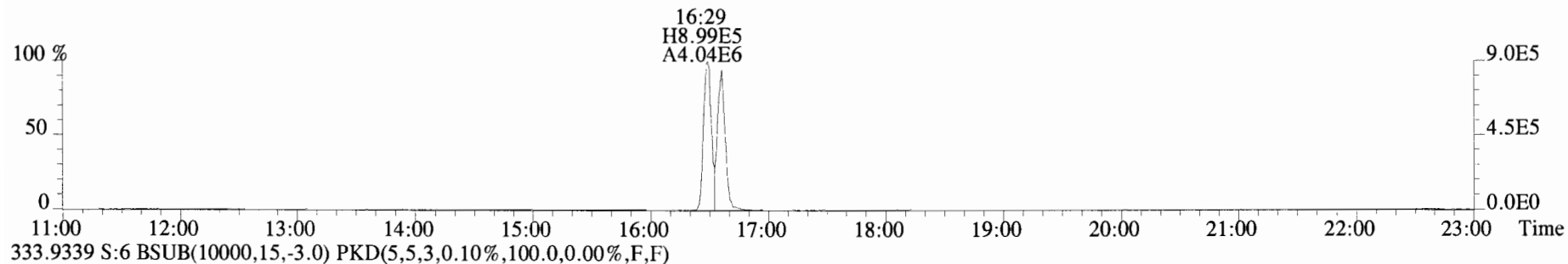
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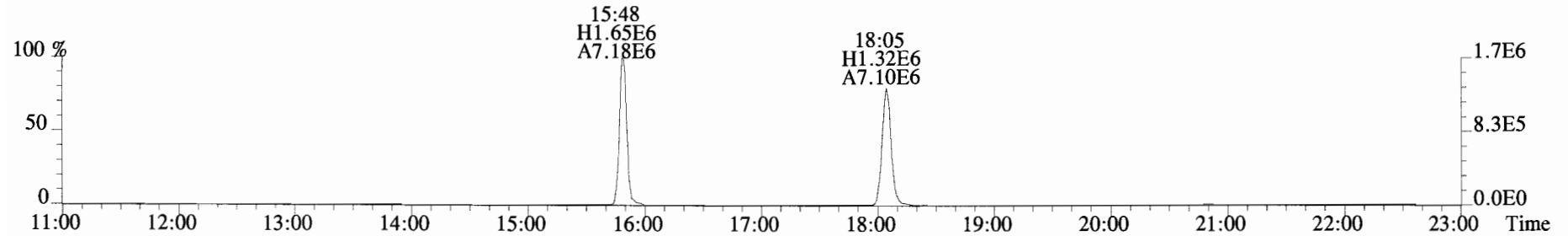
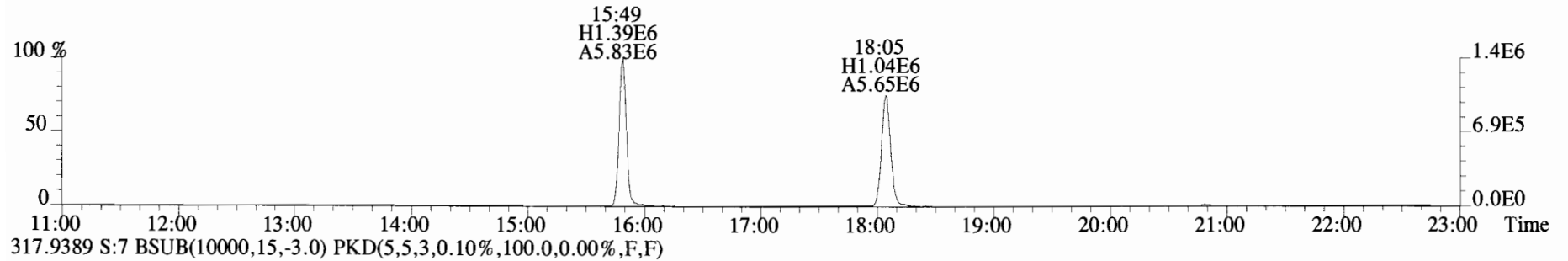
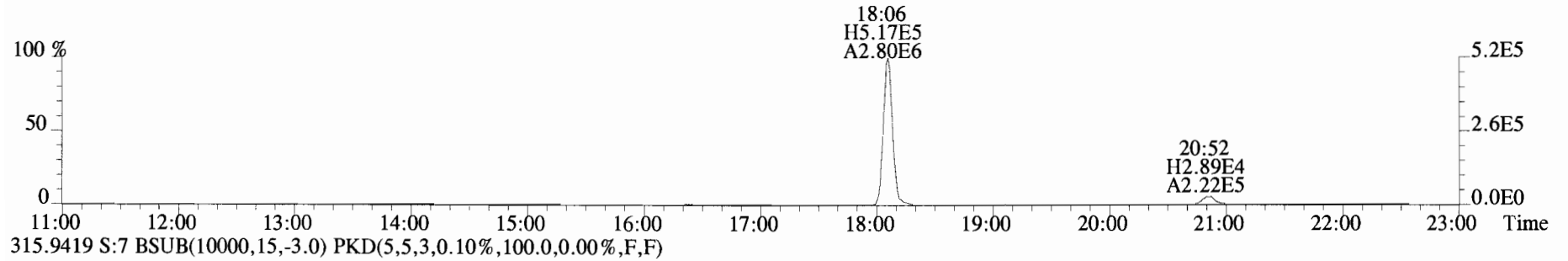
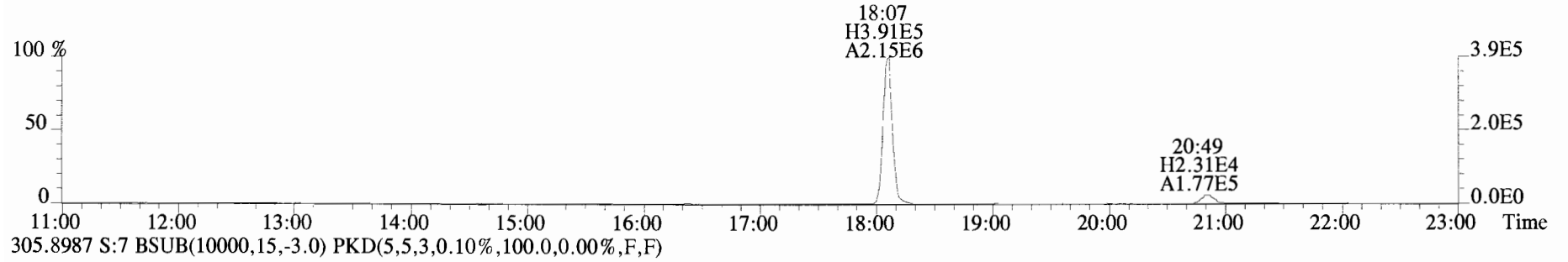
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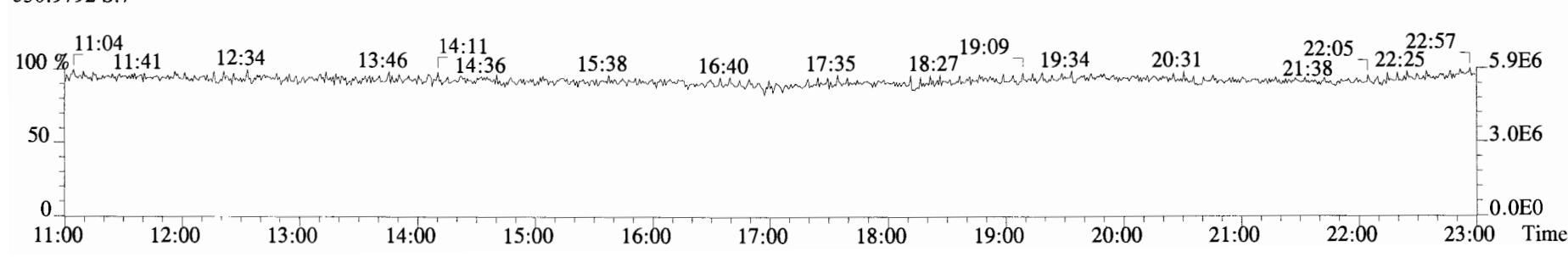
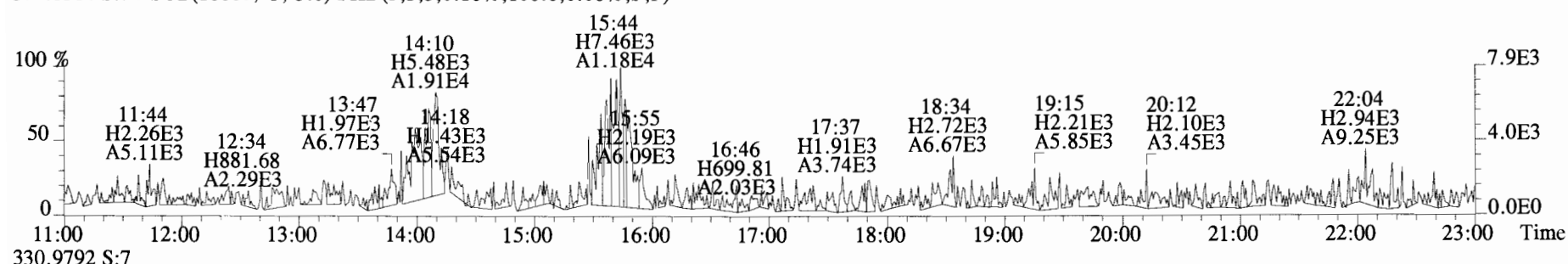
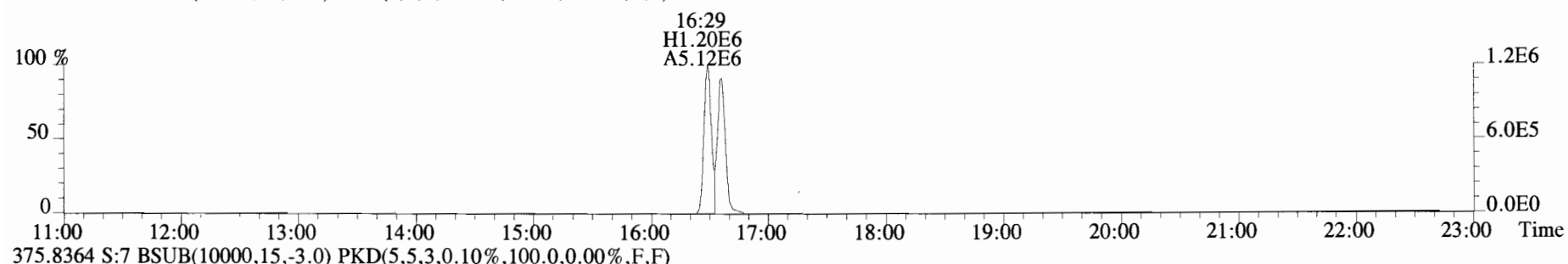
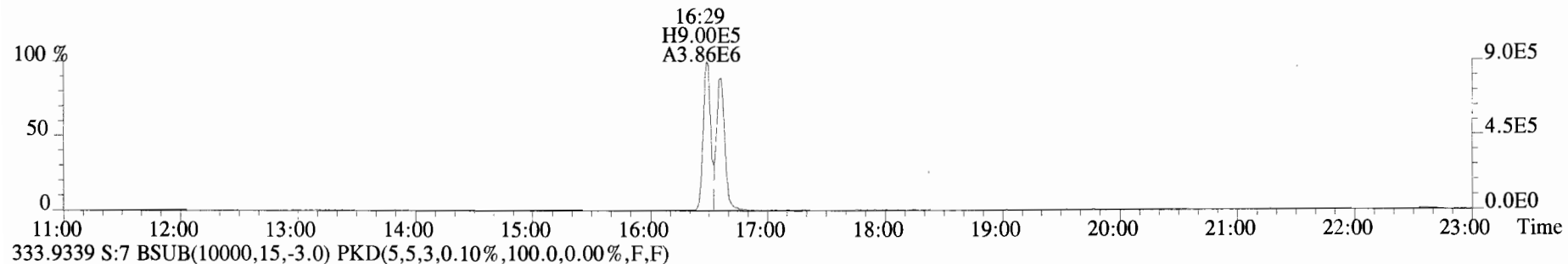
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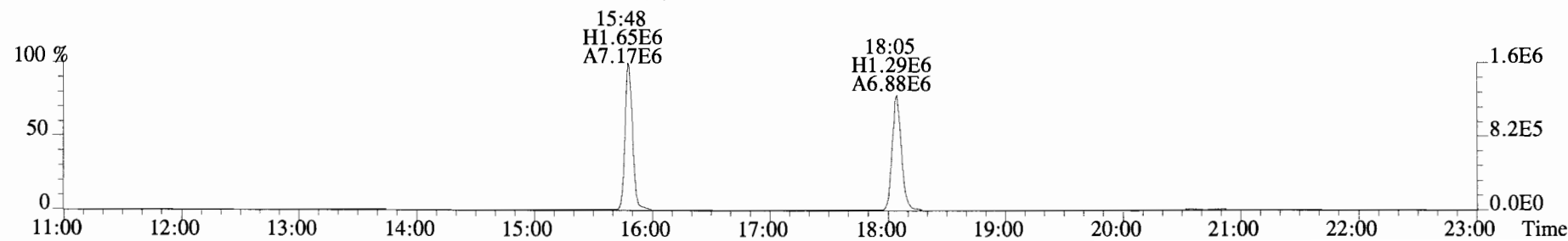
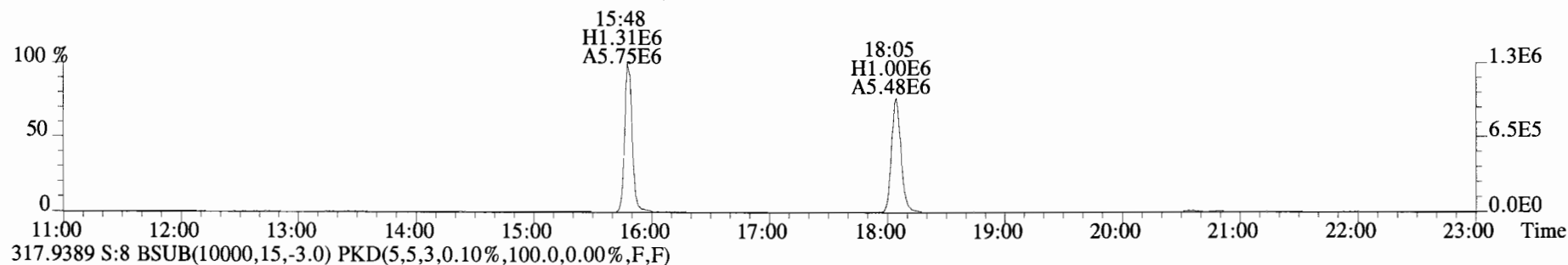
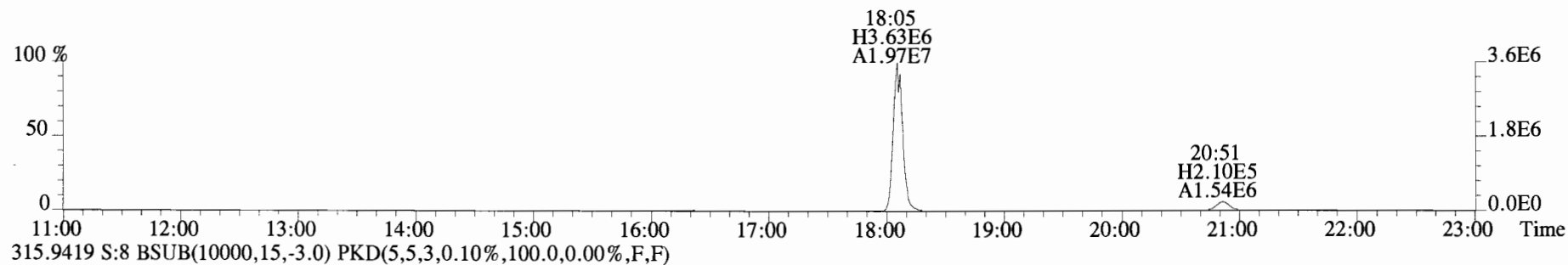
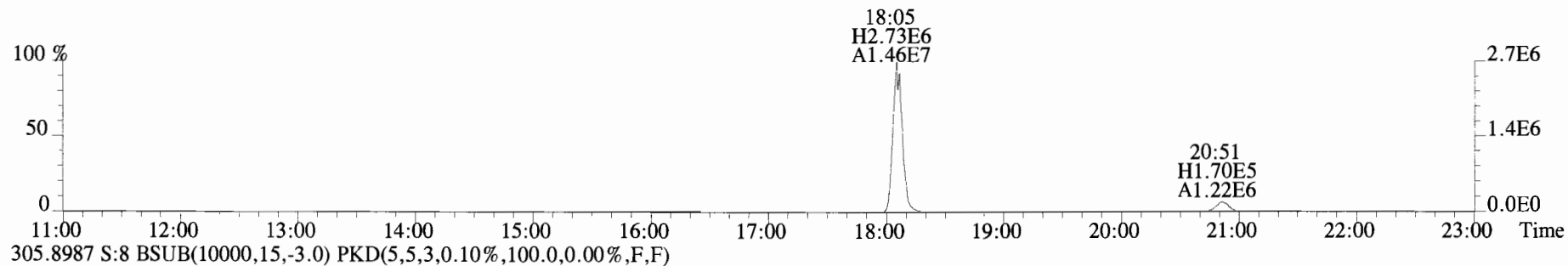
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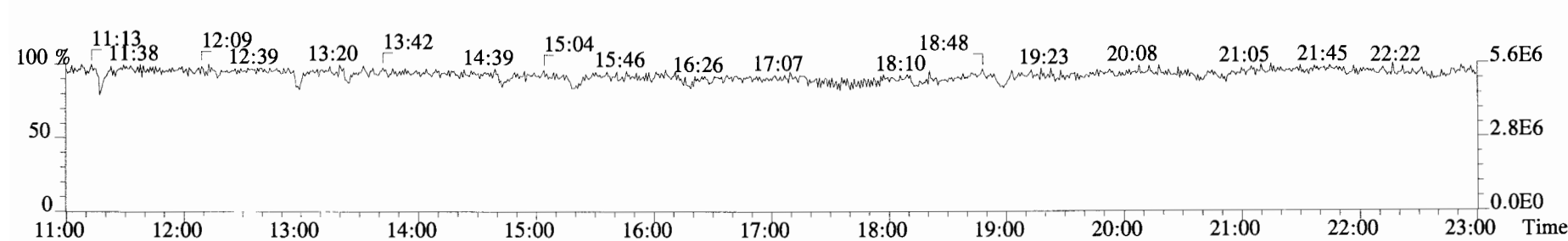
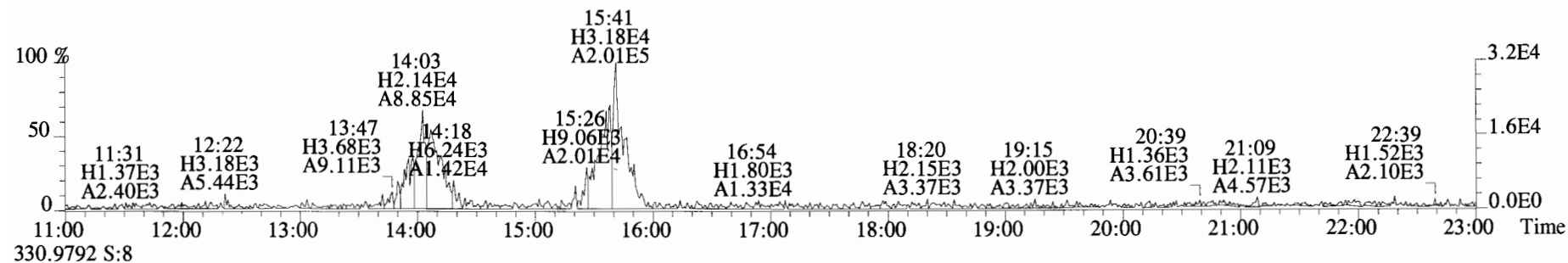
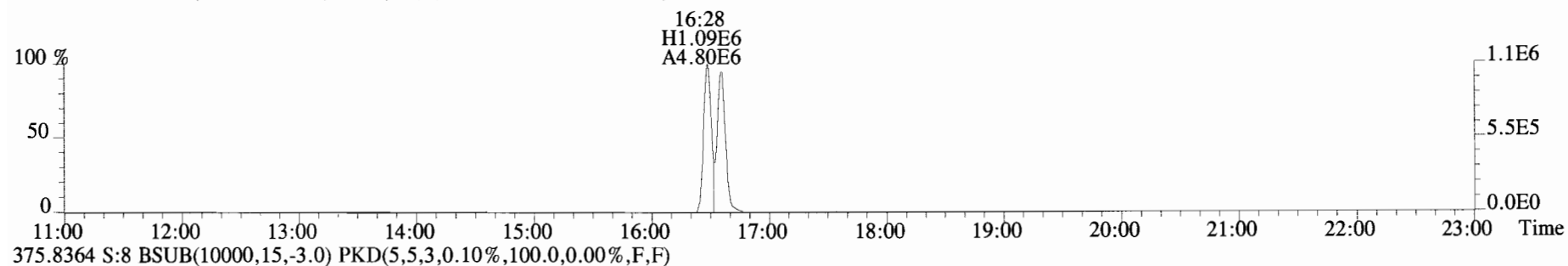
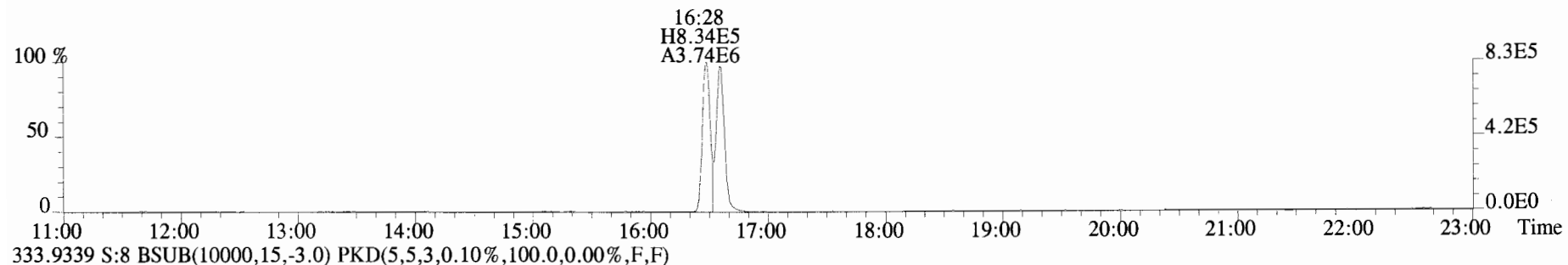
File:190530D1 #1-1682 Acq:30-MAY-2019 14:13:01 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-5 1613 CS4 19C2205 Exp:TCDF_DB225
 331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

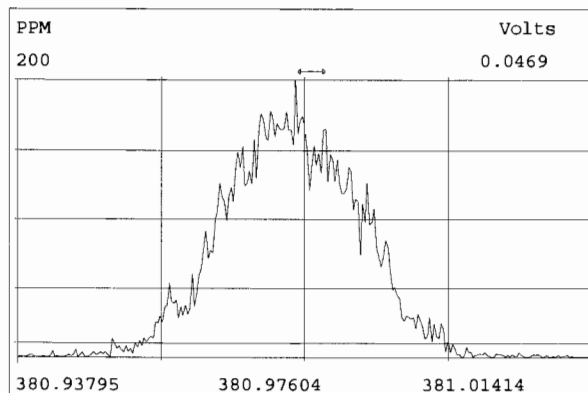
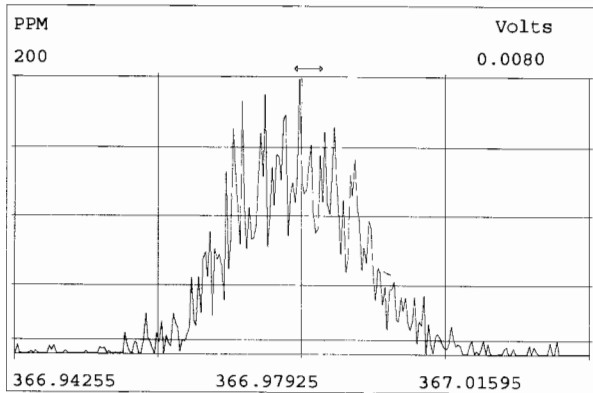
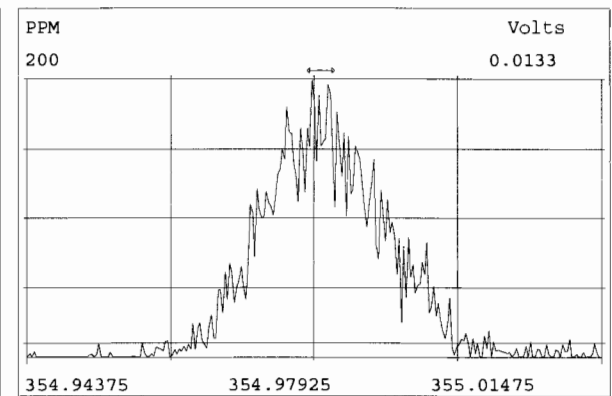
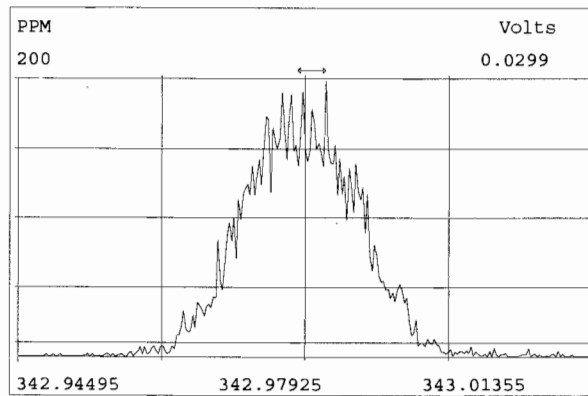
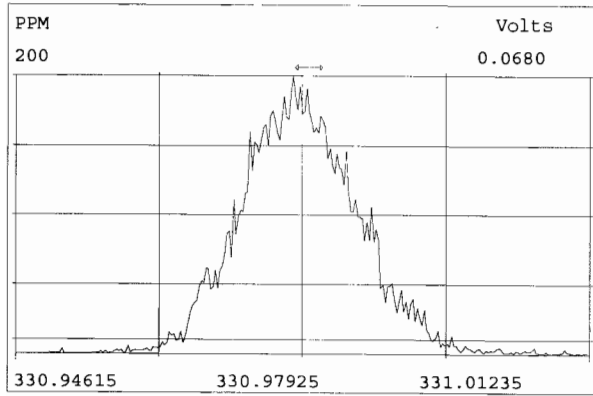
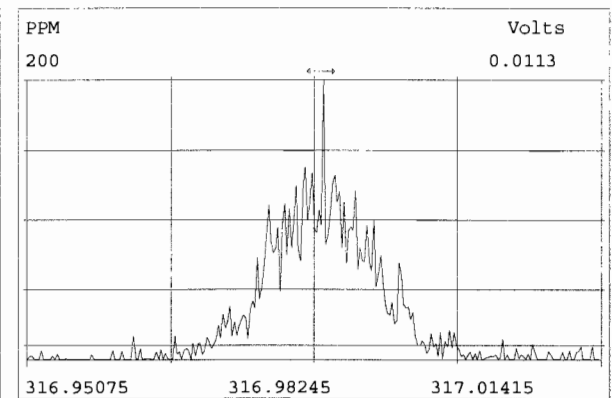
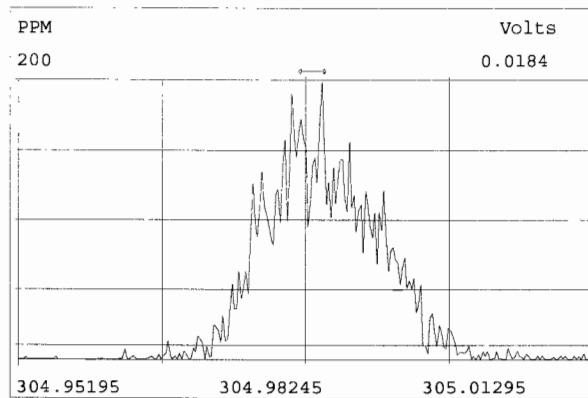
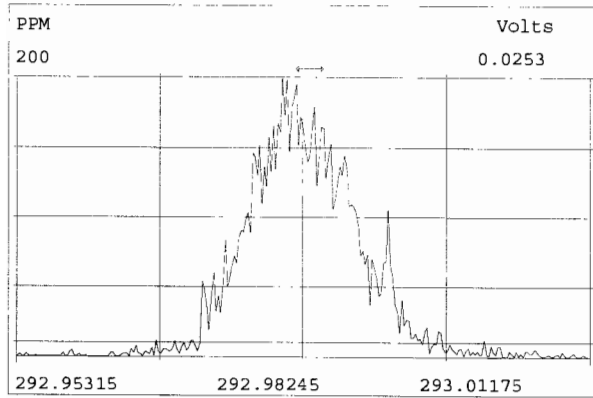


File:190530D1 #1-1682 Acq:30-MAY-2019 14:44:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-6 1613 CS5 19C2206 Exp:TCDF_DB225
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

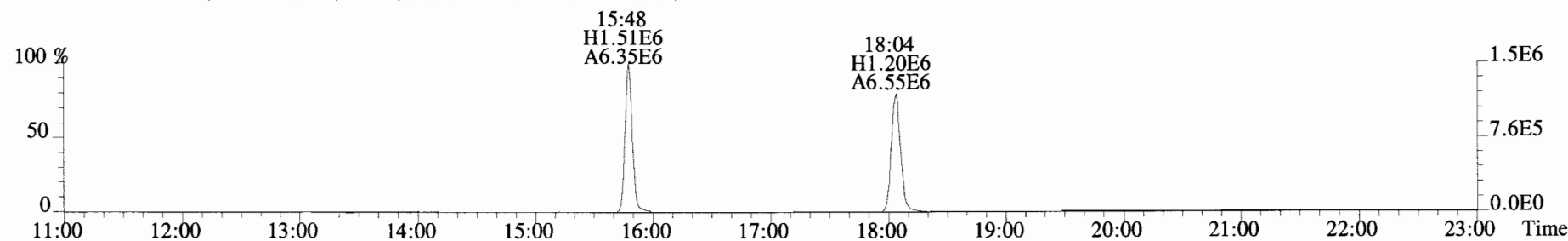
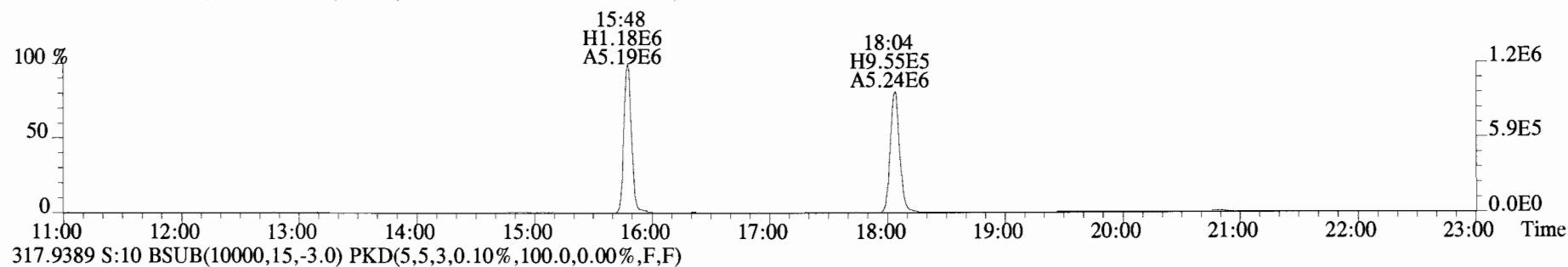
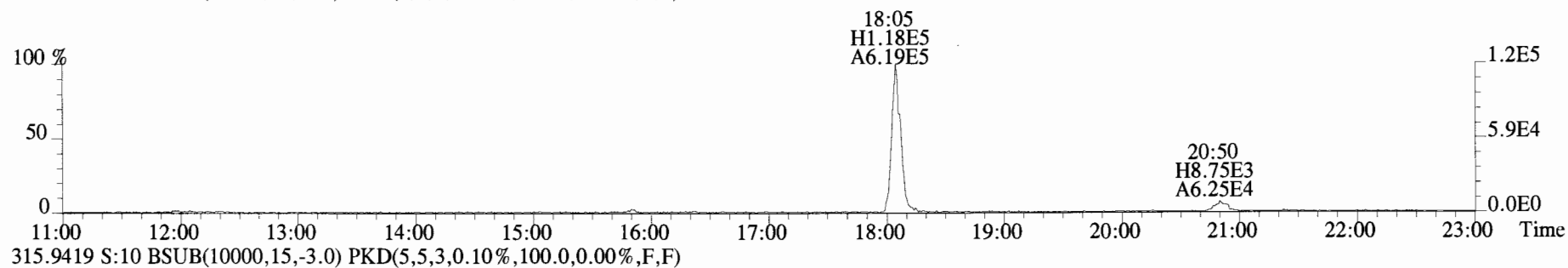
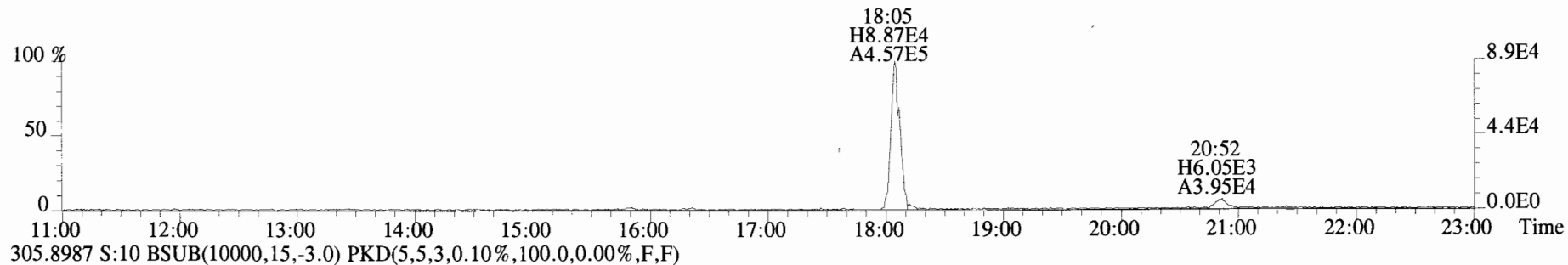
Date: 5/31/19

Reviewed

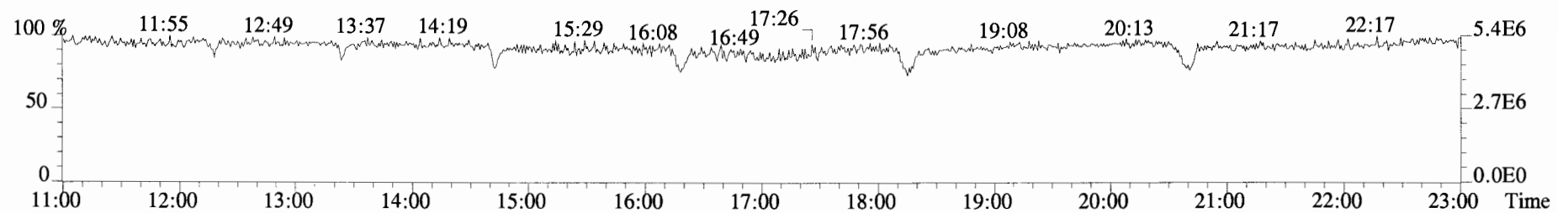
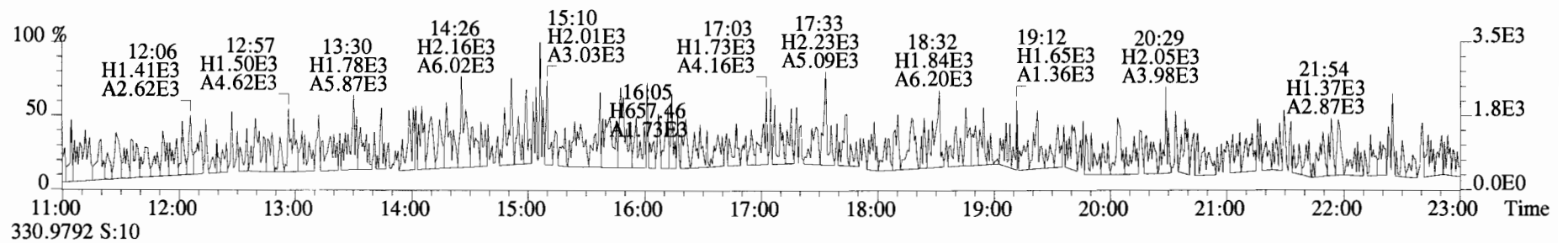
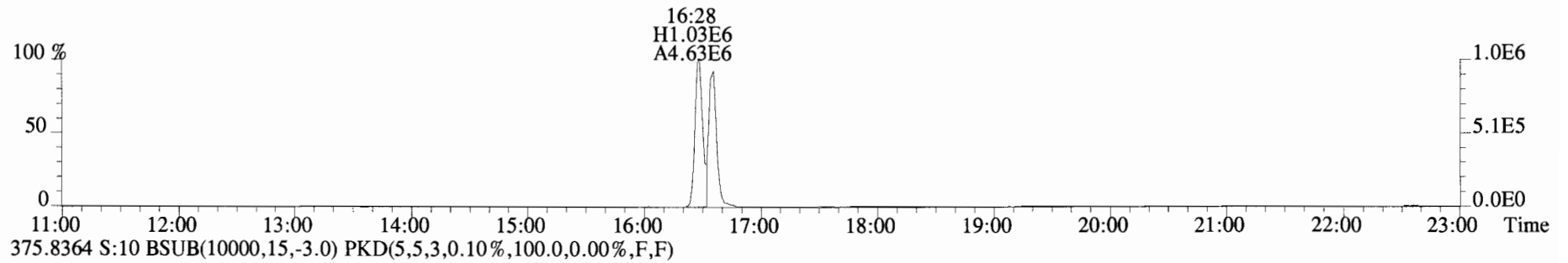
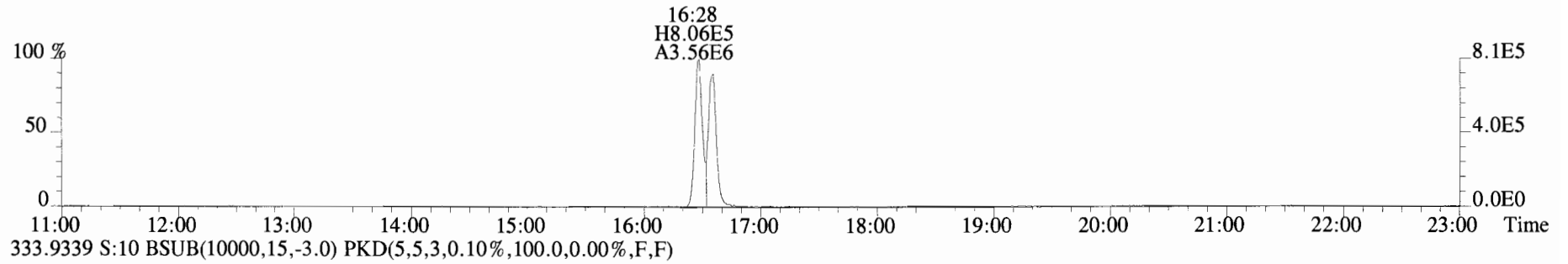
by
Analyst: CT

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

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: 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
1	191122K3_1	2.00	1.56	NO	35.96	1.014	3.26e3	7.84e4	2.12	6.0	1.04	bd
2	191122K3_2	10.0	1.55	NO	35.98	1.014	1.16e4	5.59e4	10.6	5.9	1.04	bd
3	191122K3_3	100	1.57	NO	35.98	1.014	1.18e5	7.50e4	80.1	-19.9	0.786	bd
4	191122K3_4	250	1.61	NO	35.96	1.014	5.56e5	1.09e5	261	4.4	1.02	bd
5	191122K3_5	1200	1.58	NO	35.98	1.014	2.80e6	1.32e5	1080	-9.8	0.885	bd
6	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
1	191122K3_1	10.0	1.38	NO	36.08	1.000	1.37e4	4.94e4	12.5	25.1	1.38	MM
2	191122K3_2	15.0	1.71	NO	36.08	1.000	1.36e4	3.65e4	16.8	12.3	1.24	MM
3	191122K3_3	100	1.57	NO	36.08	1.001	7.92e4	4.83e4	74.2	-25.8	0.820	db
4	191122K3_4	250	1.58	NO	36.06	1.000	3.73e5	7.53e4	224	-10.4	0.992	db
5	191122K3_5	1200	1.58	NO	36.08	1.000	1.96e6	1.12e5	786	-34.5	0.725	dbX
6	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
1	191122K3_1	2.00	1.25	NO	35.96	1.000	6.80e4	1.83e6	2.17	8.4	0.926	bb
2	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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Dataset: U:\VG11.PRO\Results\191122K3\191122K3-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	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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Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

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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

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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

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Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

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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
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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

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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

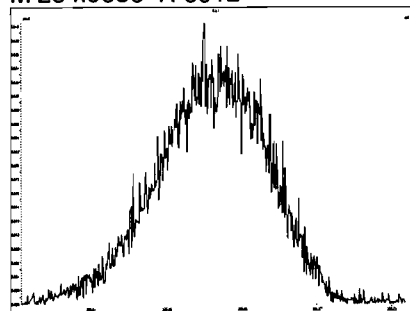
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5	191122K3_5	ST191122K3-5 1699 CS5 19H0207	22-Nov-19	19:17:45
6	191122K3_6	ST191122K3-6 1699 CS3 19H0204	22-Nov-19	20:06:28
7	191122K3_7	SS191122K3-1 1699 SS 19H0208	22-Nov-19	20:56:01
8	191122K3_8	GC191122K3-1 GC BREAK	22-Nov-19	21:45:34
9	191122K3_9	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
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16	191122K3_16	1904021-02 PDI-142RAB-00-10-191112 1	23-Nov-19	04:21:41
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19	191122K3_19	1904021-06 PDI-144RAB-10-20-191113 1	23-Nov-19	06:51:35
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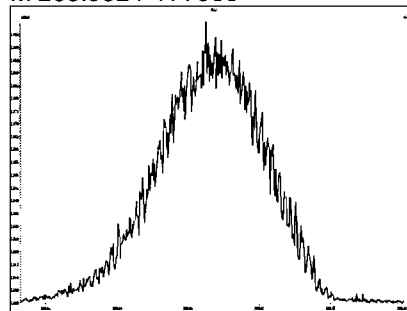
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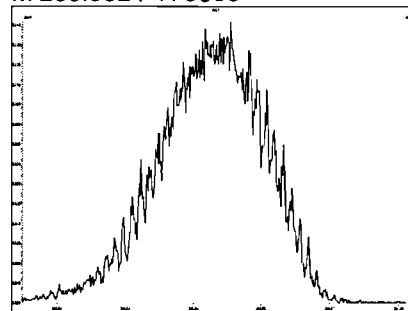
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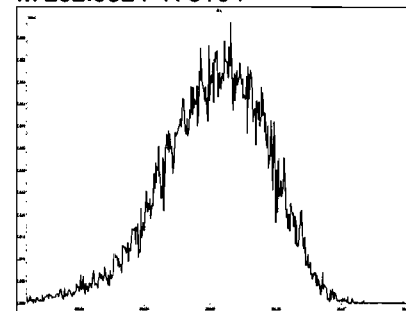
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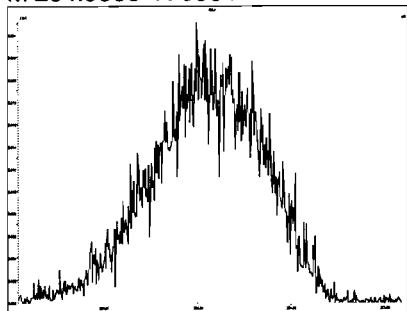
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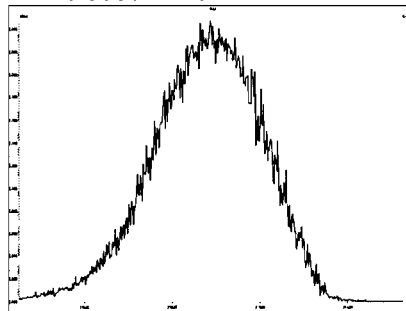
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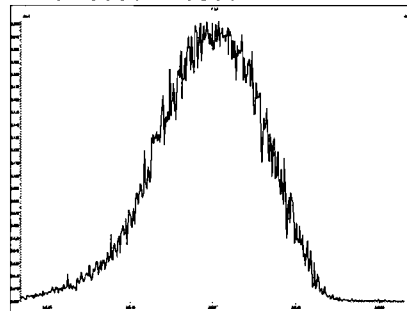
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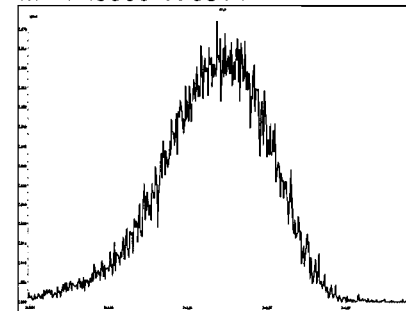
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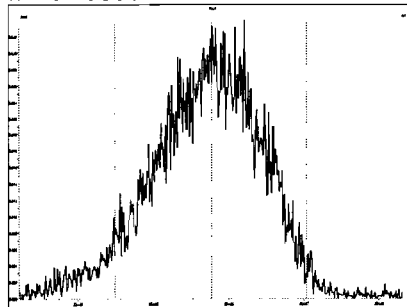
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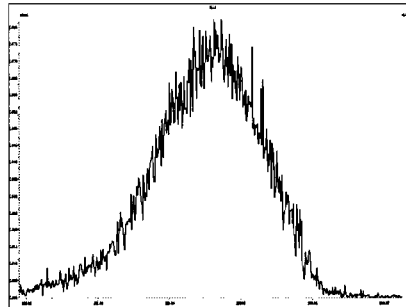
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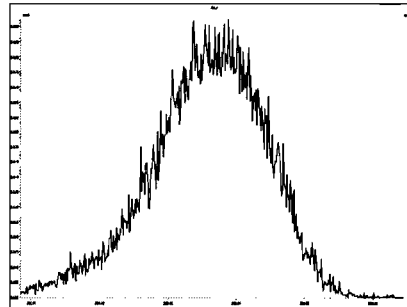
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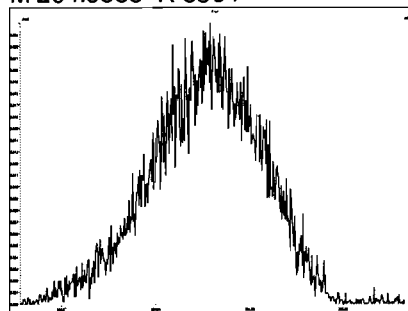
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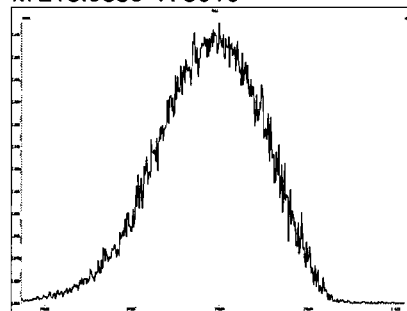
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Printed: Friday, November 22, 2019 15:59:03 Pacific Standard Time

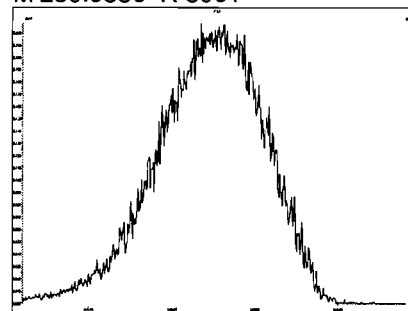
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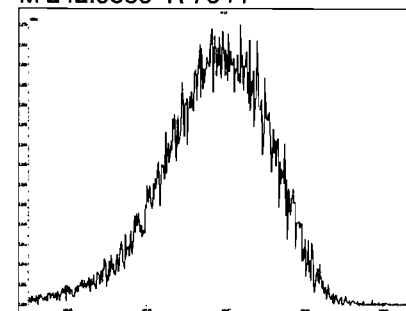
M 218.9856 R 8010



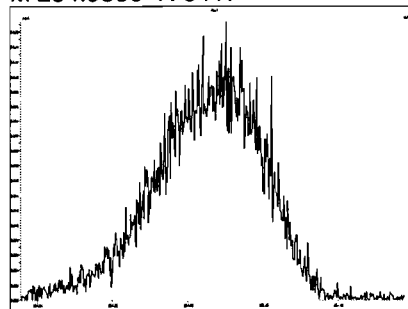
M 230.9856 R 8091



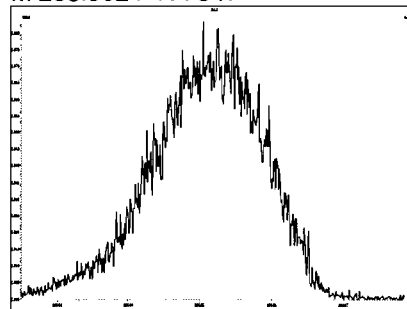
M 242.9856 R 7644



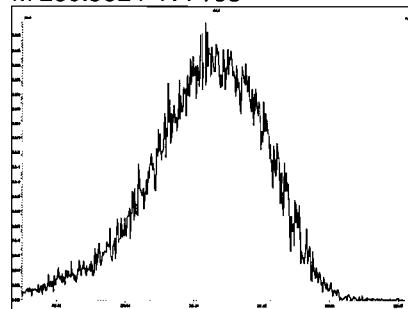
M 254.9856 R 8417



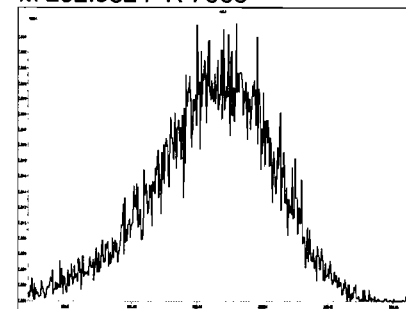
M 268.9824 R 7647



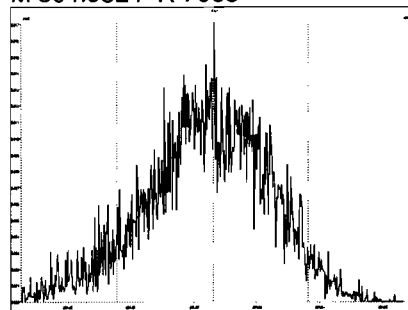
M 280.9824 R 7163



M 292.9824 R 7005



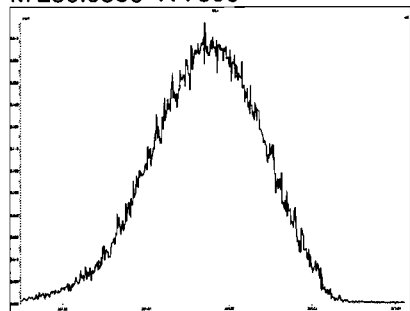
M 304.9824 R 7083



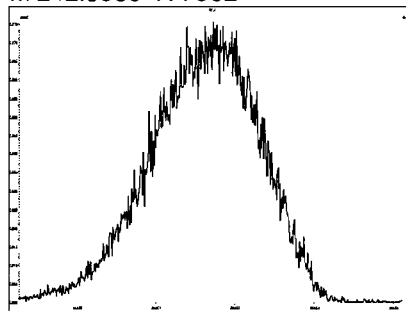
File: Experiment: 1699_ZB50_10K.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, November 22, 2019 16:00:02 Pacific Standard Time

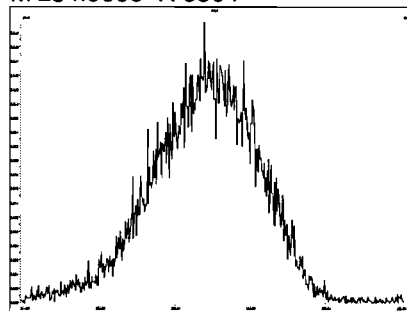
M 230.9856 R 7396



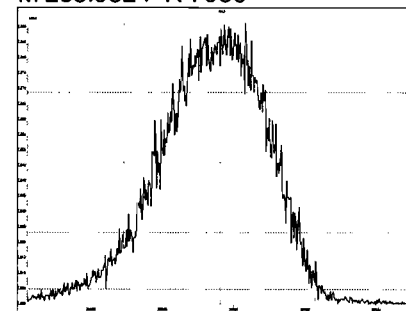
M 242.9856 R 7862



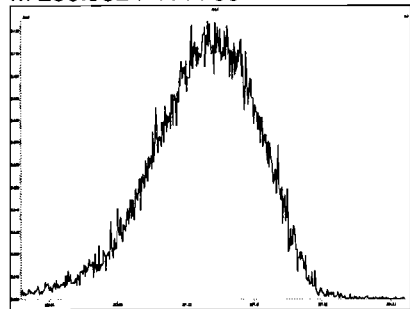
M 254.9856 R 8304



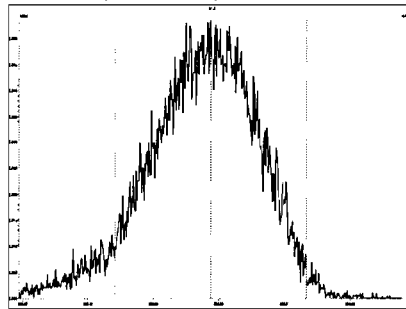
M 268.9824 R 7986



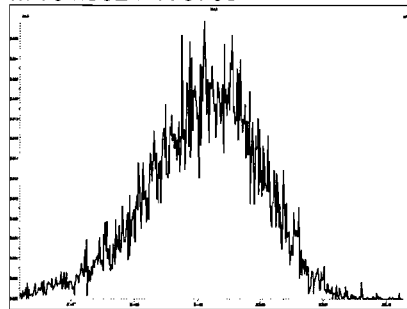
M 280.9824 R 7766



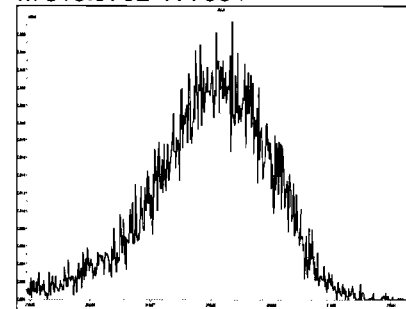
M 292.9824 R 7937



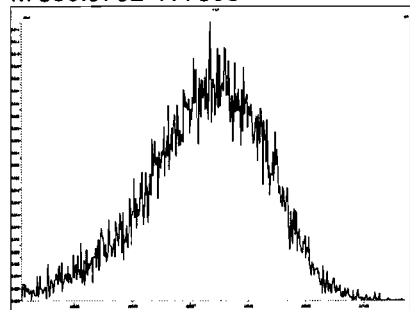
M 304.9824 R 8709



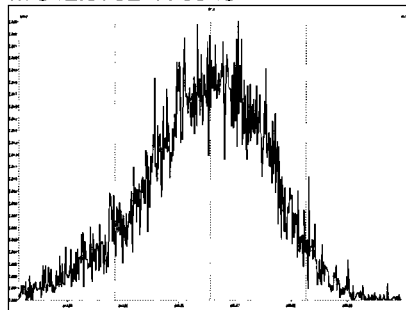
M 318.9792 R 7884



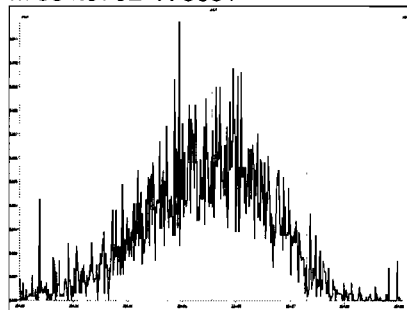
M 330.9792 R 7396



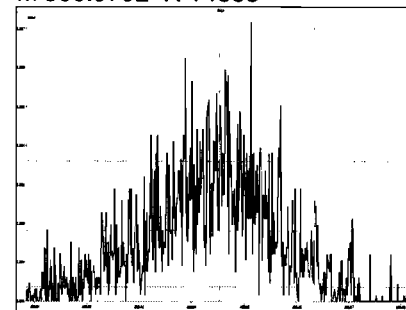
M 342.9792 R 6943



M 354.9792 R 8681



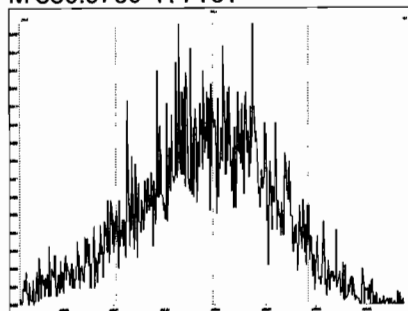
M 366.9792 R 14533



File: Experiment: 1699_ZB50_10K.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, November 22, 2019 16:00:02 Pacific Standard Time

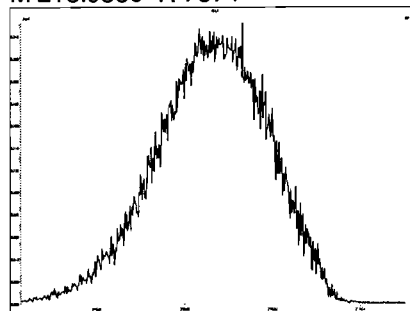
M 380.9760 R 7161



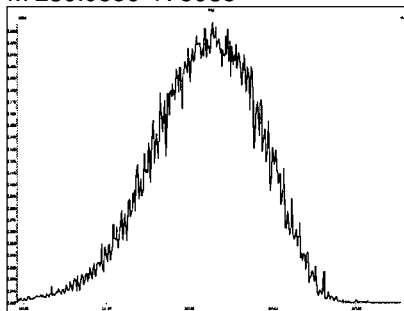
File: Experiment: 1699_ZB50_10K.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, November 22, 2019 16:00:42 Pacific Standard Time

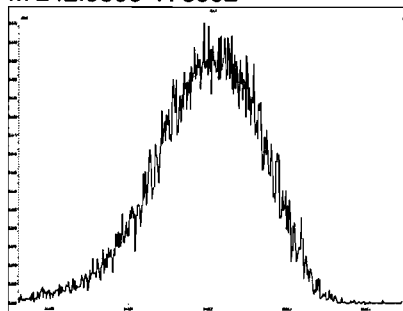
M 218.9856 R 7374



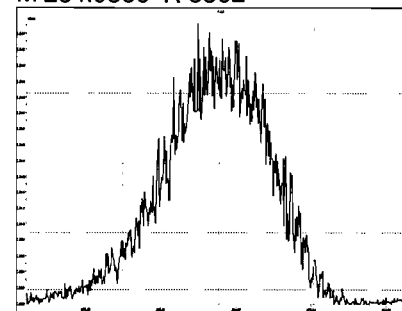
M 230.9856 R 8038



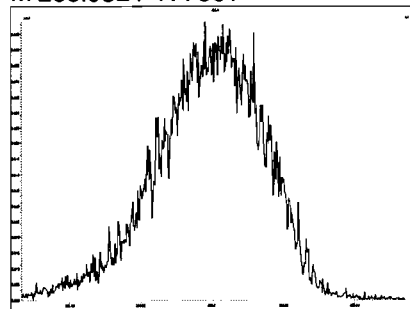
M 242.9856 R 8562



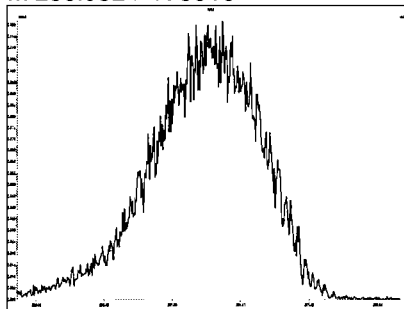
M 254.9856 R 8362



M 268.9824 R 7861



M 280.9824 R 8010



Dataset: Untitled

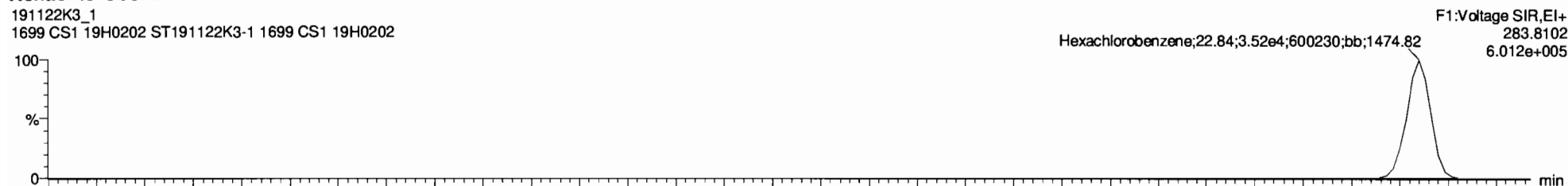
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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

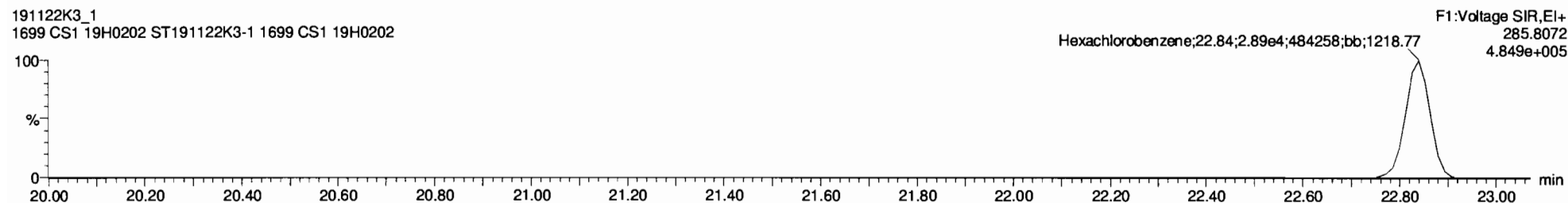
Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

Hexachlorobenzene

191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

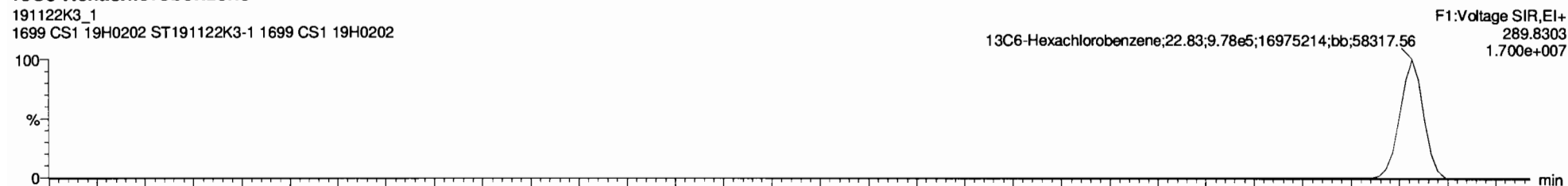


191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

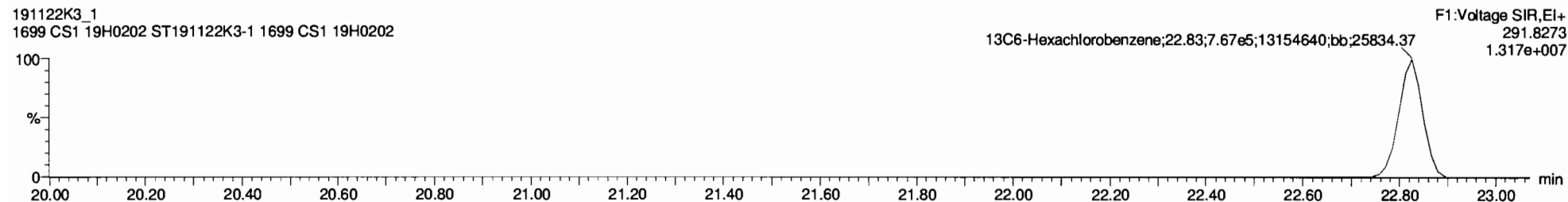


13C6-Hexachlorobenzene

191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

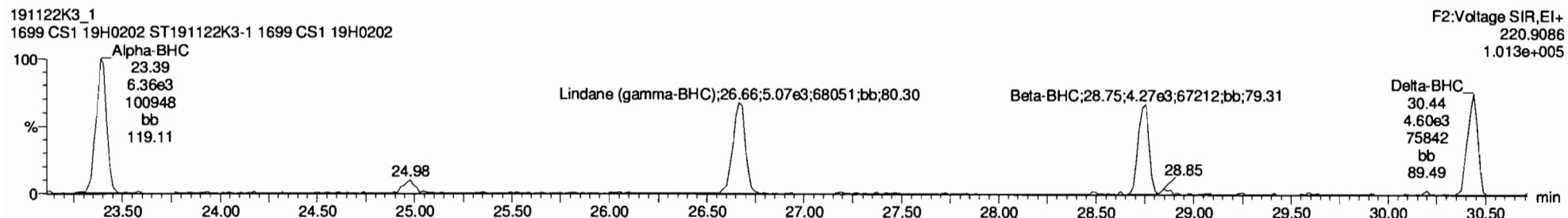
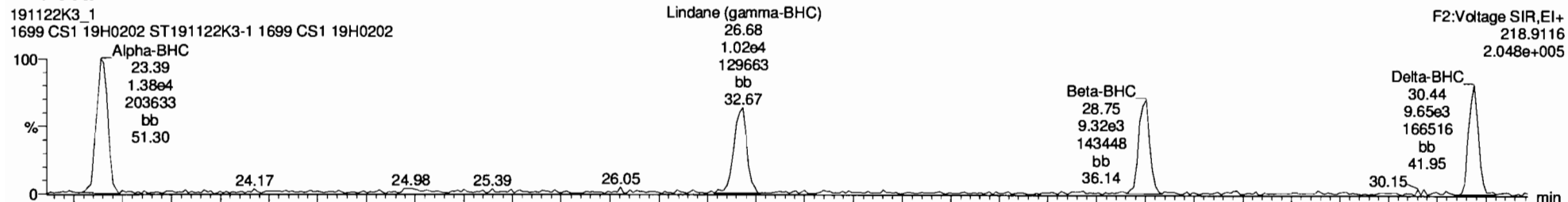


Dataset: Untitled

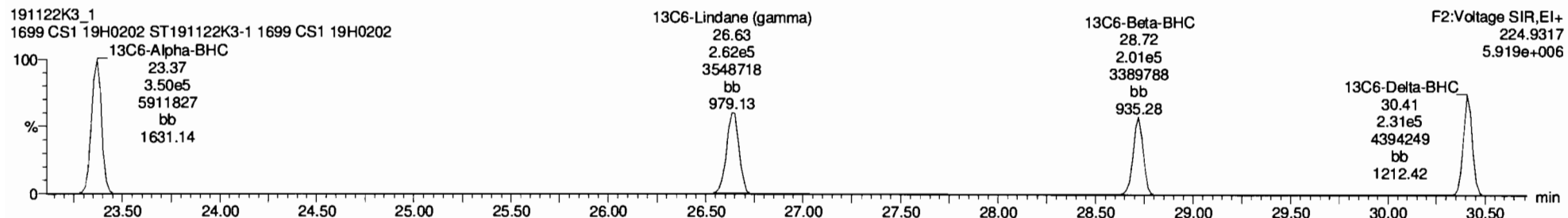
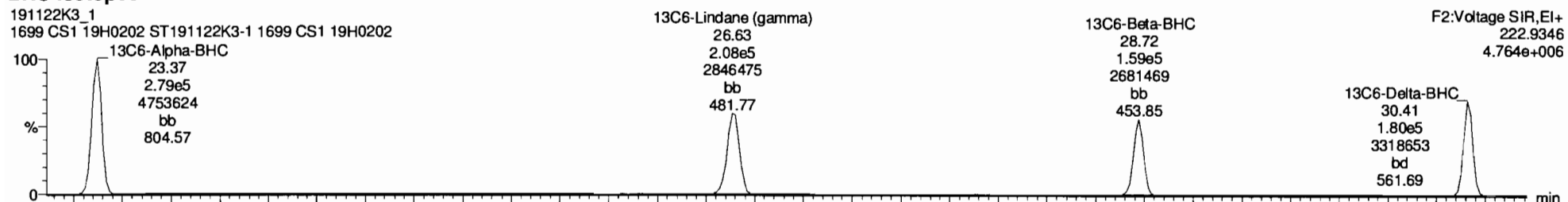
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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

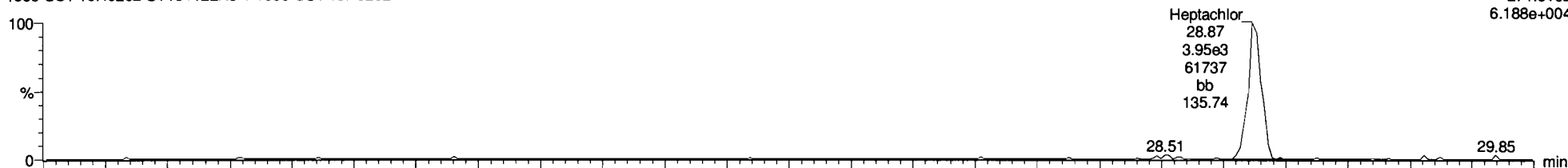
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

Heptachlor

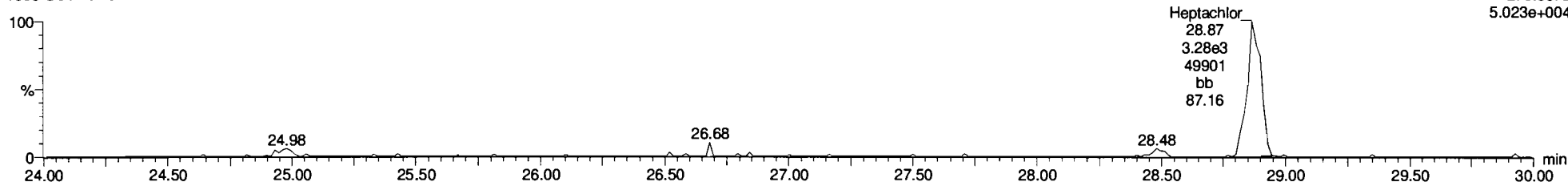
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F2:Voltage SIR,EI+
271.8102
6.188e+004



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

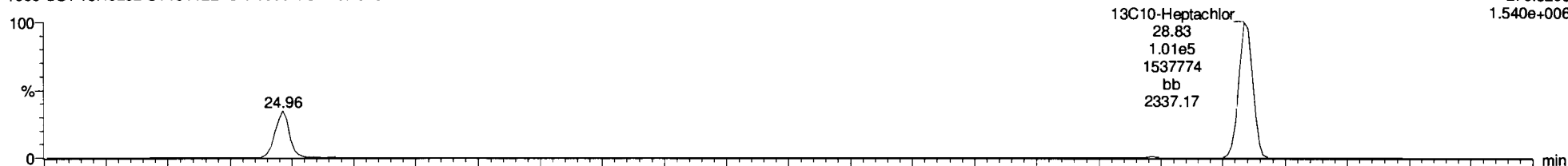
F2:Voltage SIR,EI+
273.8072
5.023e+004



13C10-Heptachlor

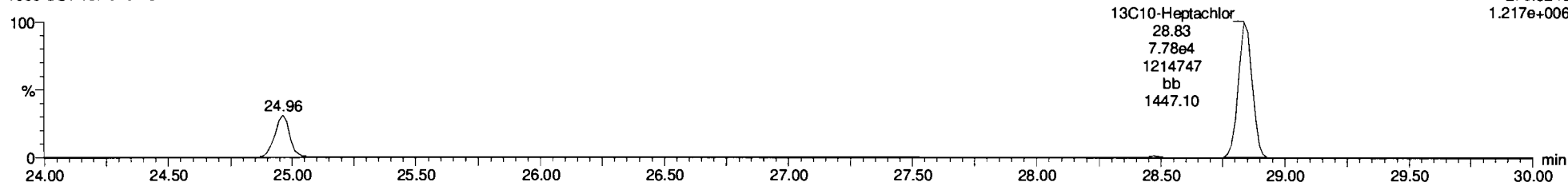
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

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

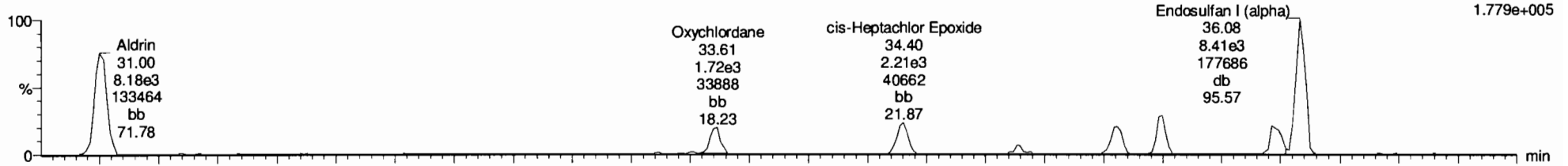
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

Aldrin-EI

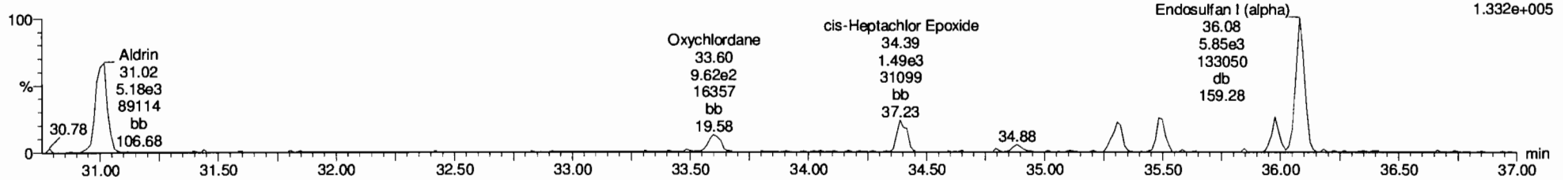
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F3:Voltage SIR,EI+
262.8569
1.779e+005



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

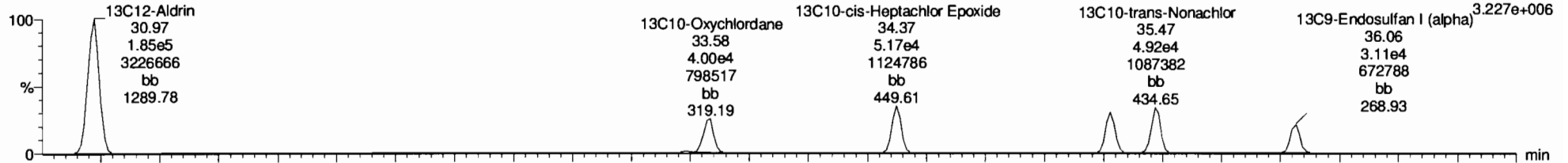
F3:Voltage SIR,EI+
264.8550
1.332e+005



Aldrin-EI-isotopes

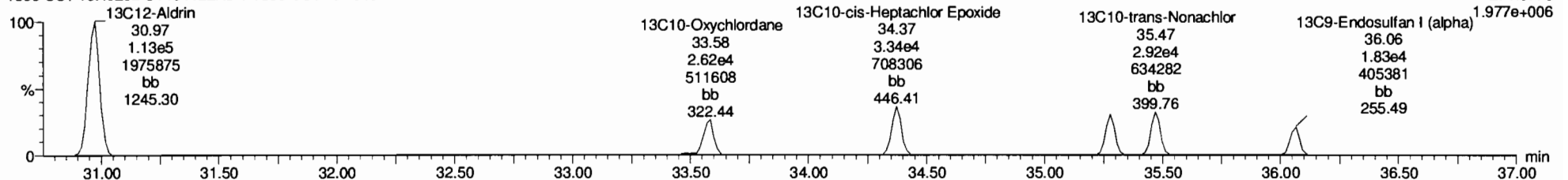
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F3:Voltage SIR,EI+
269.8804
3.227e+006

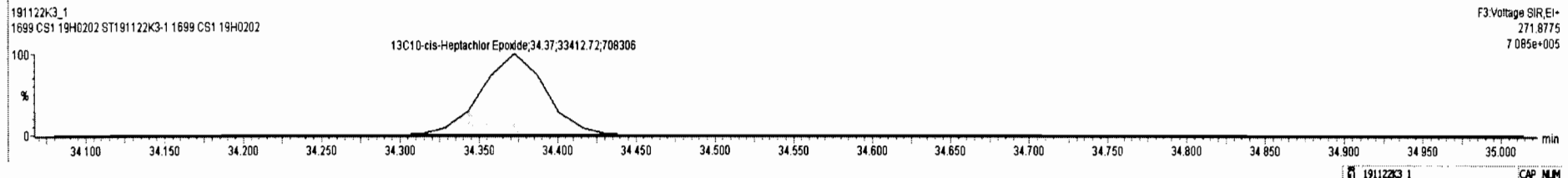
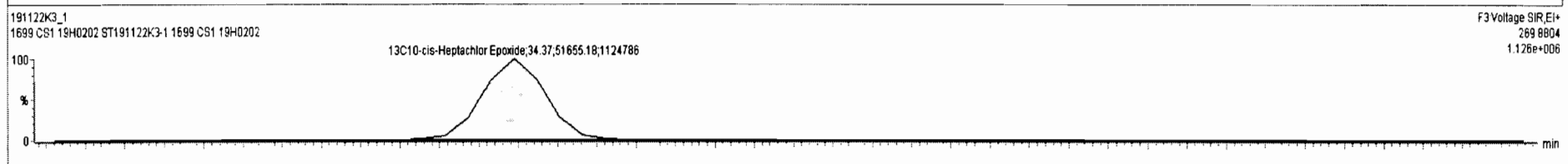
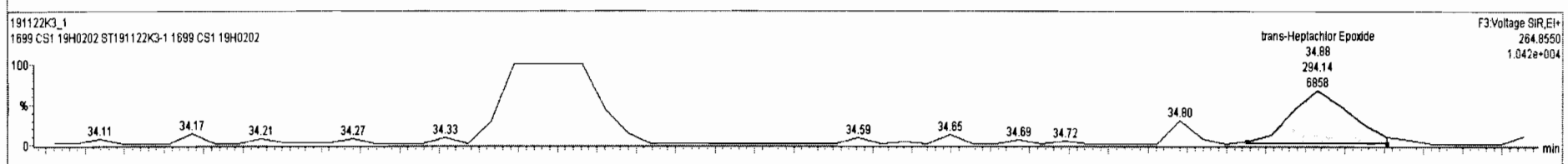
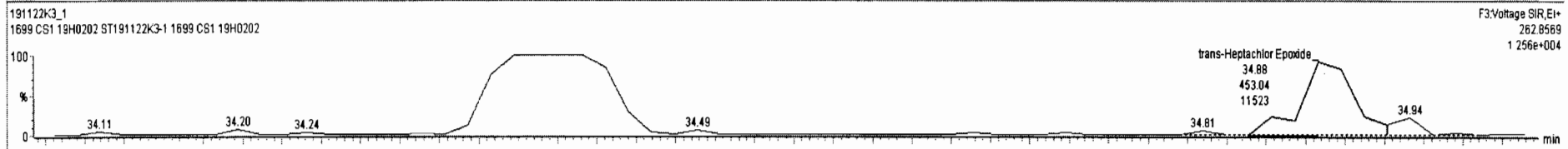


191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F3:Voltage SIR,EI+
271.8775
1.977e+006



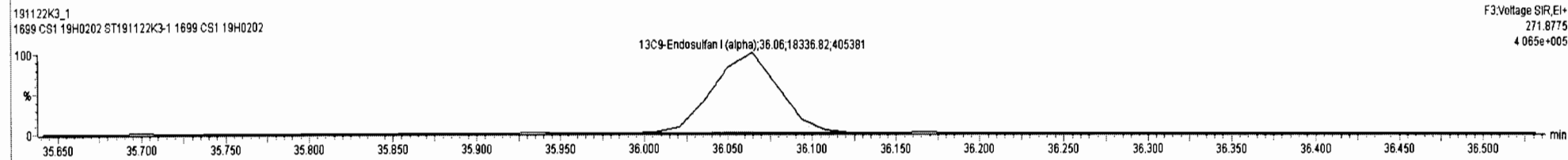
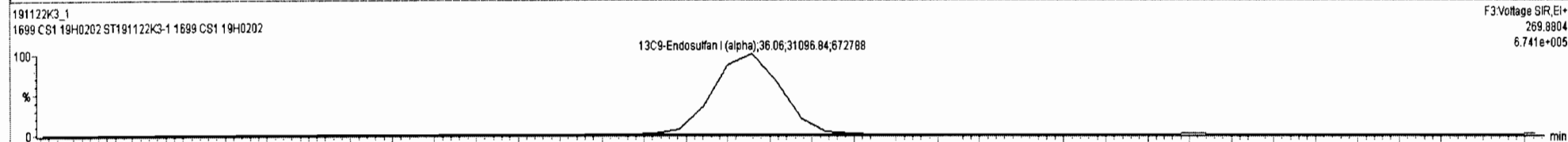
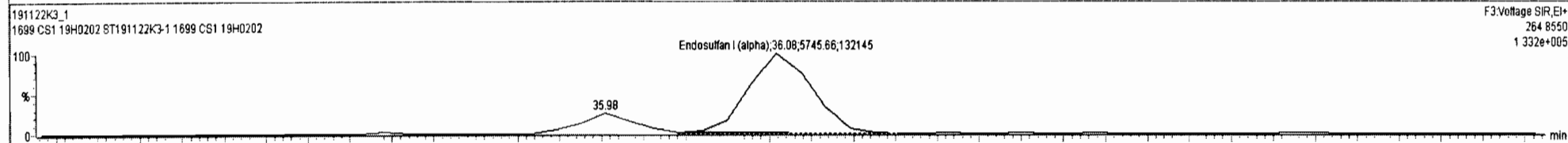
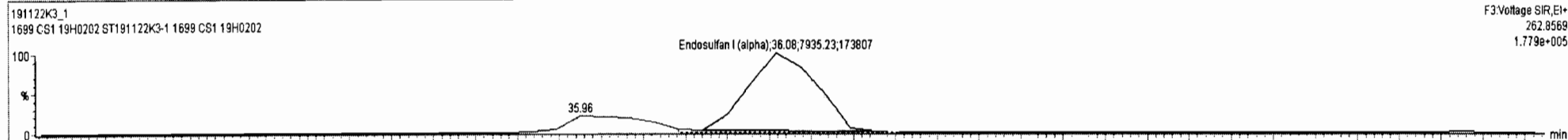
#	Name	RT	RA	yh	Area	S Area	Std. Conc	%Dev	%RSD	RFI	RFI SD
1	Hexachlorobutadiene	10.23	0.054	YES	5.7688e4	3.4107e6	10.000	371.5	185	0.179	0.332
2	Hexachlorobenzene	22.84	1.218	NO	6.4119e4	1.7455e6	2.000	5.0	9.56	0.874	0.0636
3	Alpha-BHC	23.39	2.162	NO	2.0117e4	6.2896e5	2.000	5.1	9.29	0.760	0.0706
4	Lindane (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	11.6	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	1.560	NO	3.2583e3	7.8362e4	2.000	6.0	12.3	0.981	0.121
16	Endosulfan I (alpha)	36.08	1.381	NO	1.3681e4	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



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

DDMU-DDE

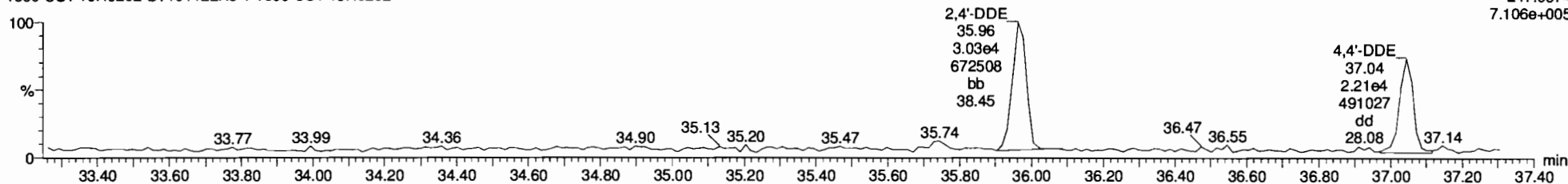
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F3:Voltage SIR,El+
246.0003
8.781e+005



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F3:Voltage SIR,El+
247.9974
7.106e+005



DDE-isotopes

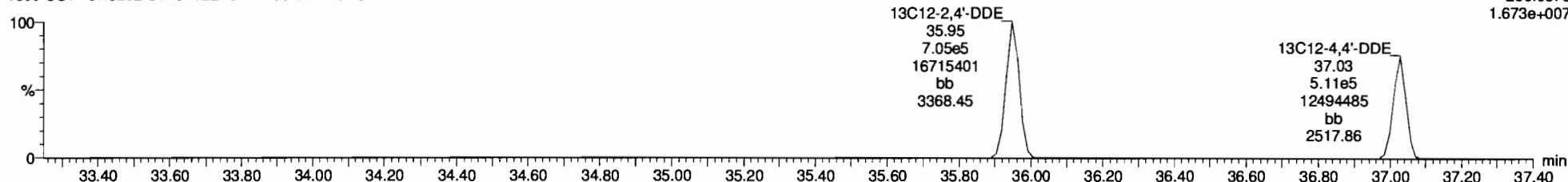
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F3:Voltage SIR,El+
258.0406
2.650e+007



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F3:Voltage SIR,El+
260.0376
1.673e+007

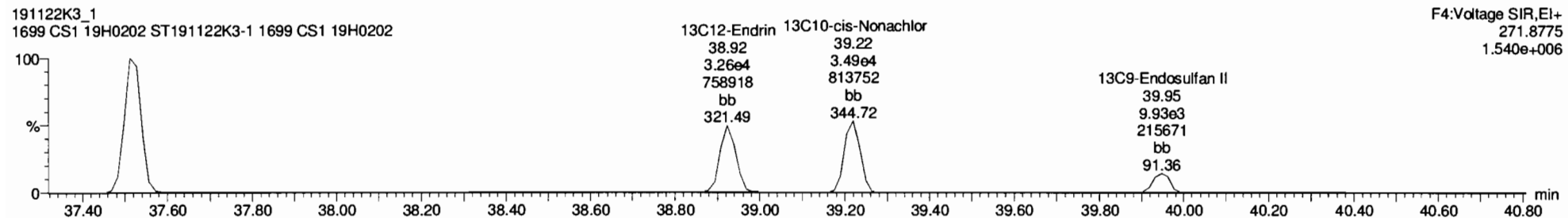
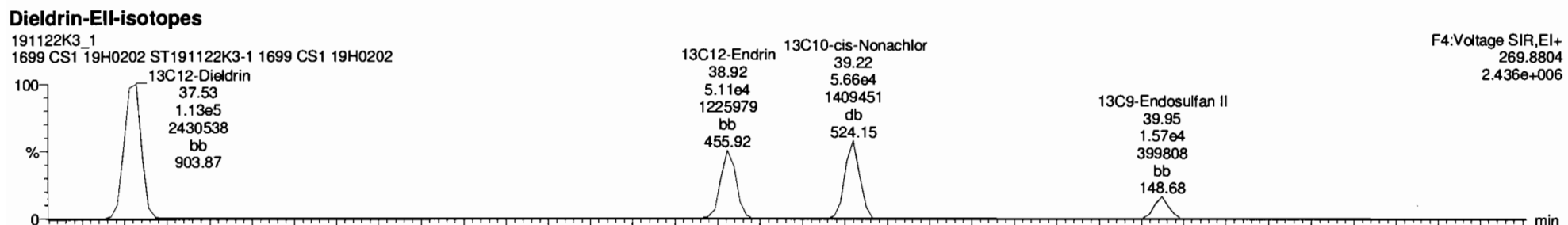
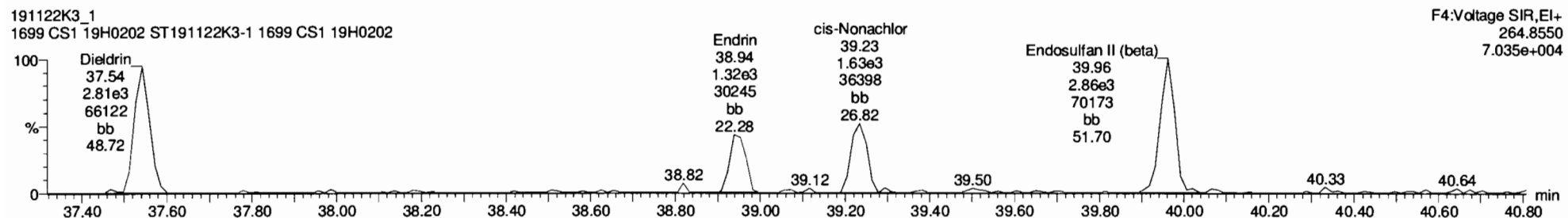
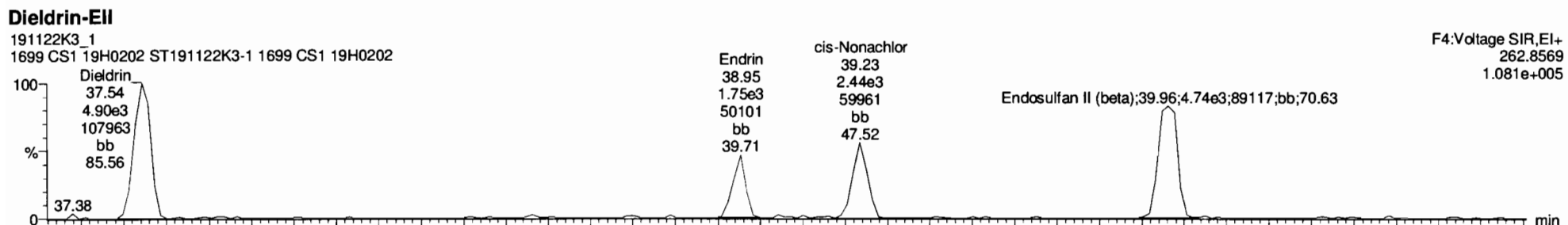


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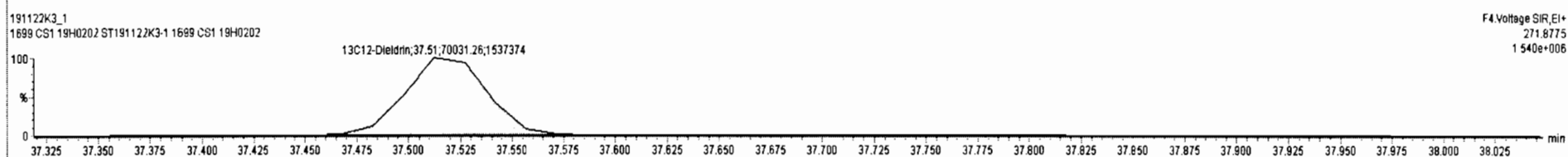
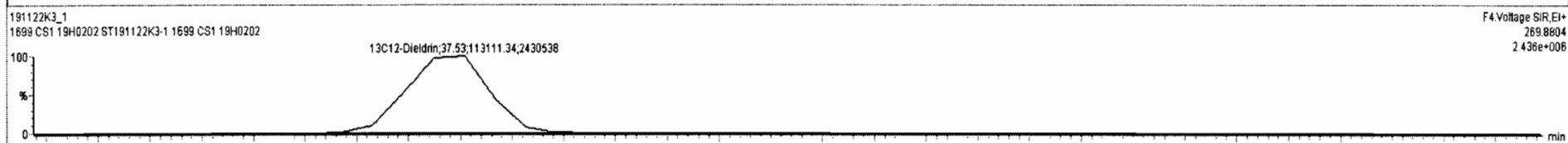
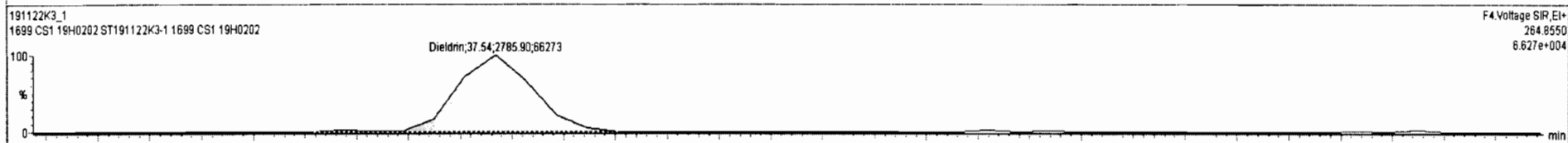
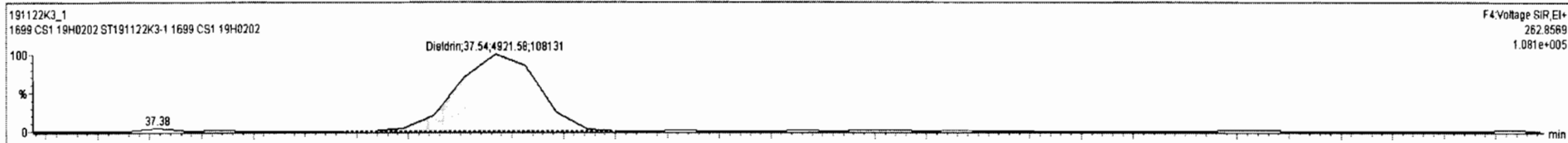
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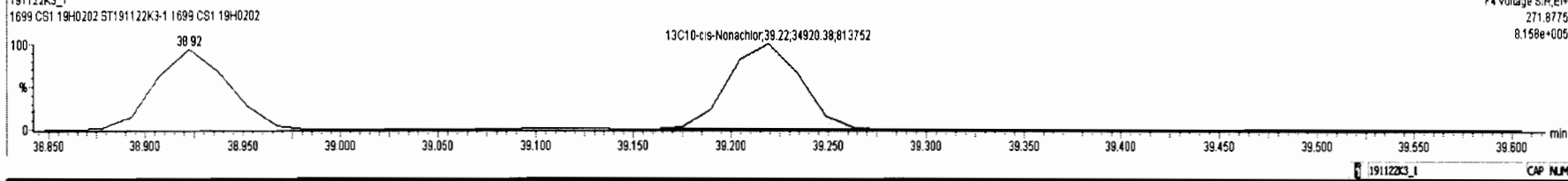
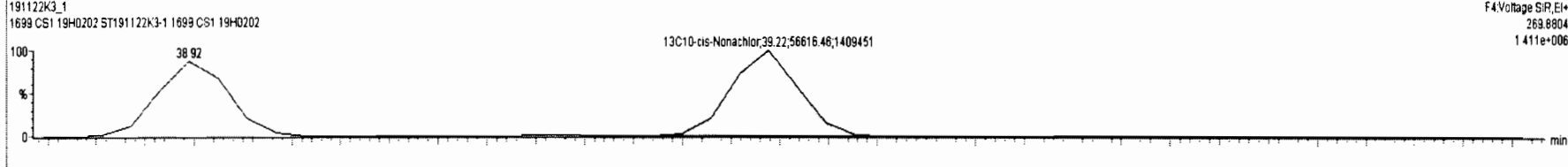
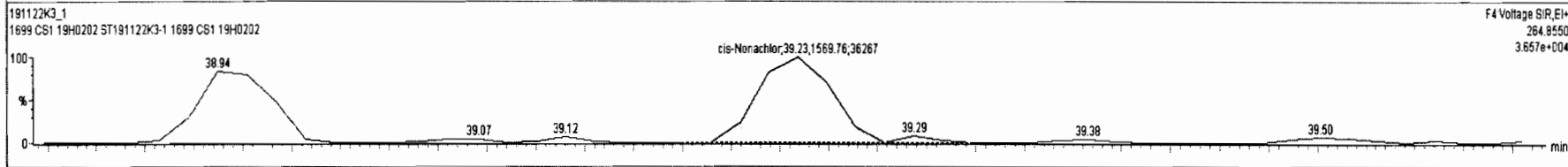
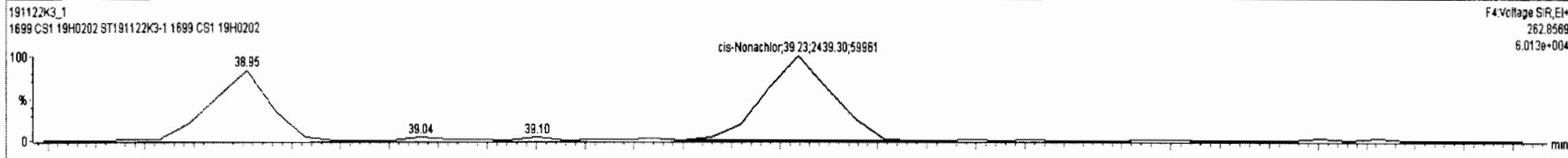
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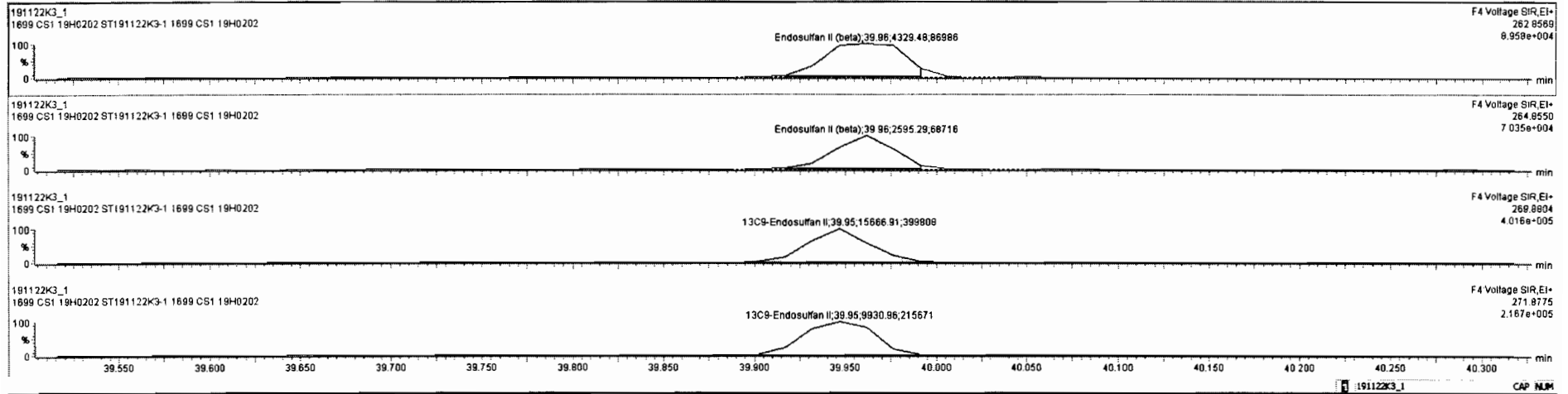
#	Name	RT	RA	yth	Area	IS Area	Std. Conc.	%Dev	%RSD	RRF M.	RRF SD
18	2,4'-DDE	35.96	1.246	NO	6.7980e4	1.8350e5	2.000	8.4	10.0	0.854	0.0855
19	4,4'-DDE	37.04	1.258	NO	4.9897e4	1.3258e5	2.000	7.8	10.3	0.873	0.0898
20	Dieldrin	37.54	1.787	NO	7.7075e3	1.8914e5	2.000	9.9	10.8	0.987	0.0987
21	Endrin	38.95	1.322	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	1.337	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



#	RT	Name	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RFI	RFI SD
18	35.96	2,4'-DDE	1.246	NO	6.7900e4	1.8350e6	2.000	8.4	10.0	0.854	0.0655
19	37.04	4,4'-DDE	1.256	NO	4.9887e4	1.3258e6	2.000	7.8	10.3	0.873	0.0898
20	37.54	Dieldrin	1.767	NO	7.7075e3	1.8314e5	2.000	9.9	10.0	0.957	0.0957
21	38.95	Endrin	1.322	NO	3.0745e3	8.3694e4	2.000	-1.5	10.5	0.933	0.0975
22	39.23	cis-Nonachlor	1.854	NO	4.6889e3	8.1537e4	2.000	14.8	12.2	0.958	0.117
23	39.96	Endosulfan I (beta)	1.688	NO	6.5249e3	2.5598e4	10.000	27.1	19.9	1.06	0.212
24	38.18	2,4'-DDD	1.578	NO	5.3980e4	1.3468e6	2.000	9.5	9.76	0.915	0.0893
25	39.31	2,4'-DDT	1.337	NO	3.3212e4	7.6577e5	2.000	17.8	12.6	0.921	0.116
26	39.44	4,4'-DDD	1.459	NO	4.5704e4	1.0340e6	2.000	10.1	10.1	1.00	0.101
27	40.51	4,4'-DDT	1.504	NO	2.9004e4	5.9979e5	2.000	5.6	9.88	0.987	0.0975
28	41.70	Endosulfan Sulfate	1.707	NO	9.2859e3	4.0770e4	10.000	22.8	14.2	0.927	0.131
29	43.56	4,4'-Methoxychlor	8.035	NO	1.3575e5	5.7689e6	10.000	3.8	10.5	1.13	0.119
30	44.11	Mirex	1.448	NO	1.7089e4	4.1469e5	2.000	10.5	11.1	0.932	0.103
31	41.10	Endrin Aldehyde	0.679	NO	1.5488e4	7.9563e5	10.000	-0.2	9.50	0.975	0.0926
32	44.25	Endrin Ketone	0.888	NO	1.0819e4	5.1456e5	10.000	15.4	11.1	0.911	0.101
33	10.21	1,3,4-Hexachlorobutadiene	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	1.26	NO	0.8728	1.000	37.05	37.04	1.000	1.000	NO	2.156	108	0.0974	2.158
20	Dieldrin	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	

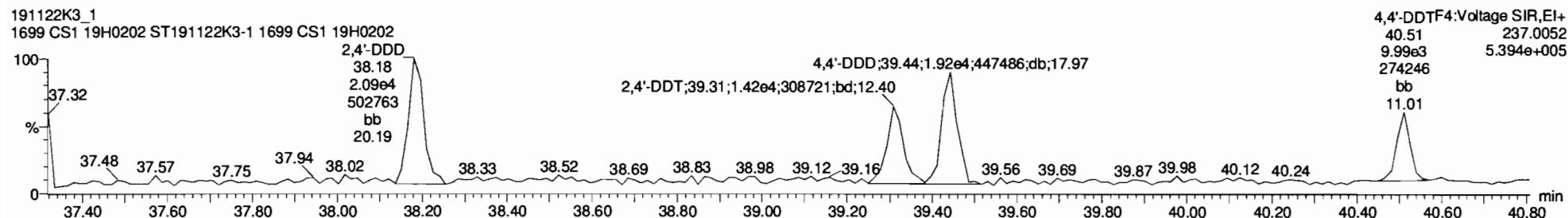
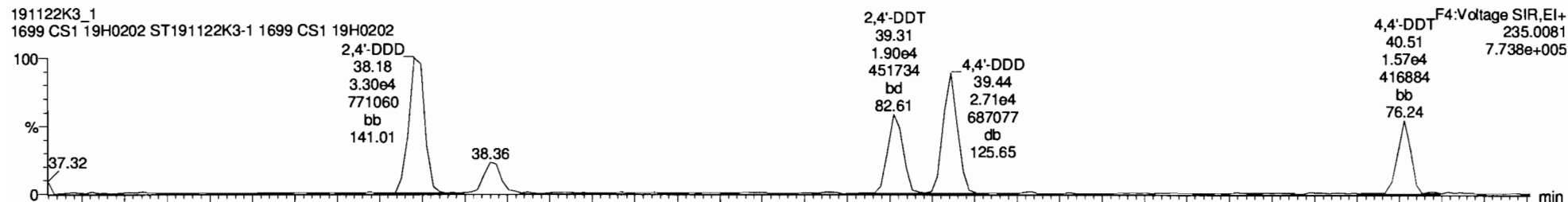


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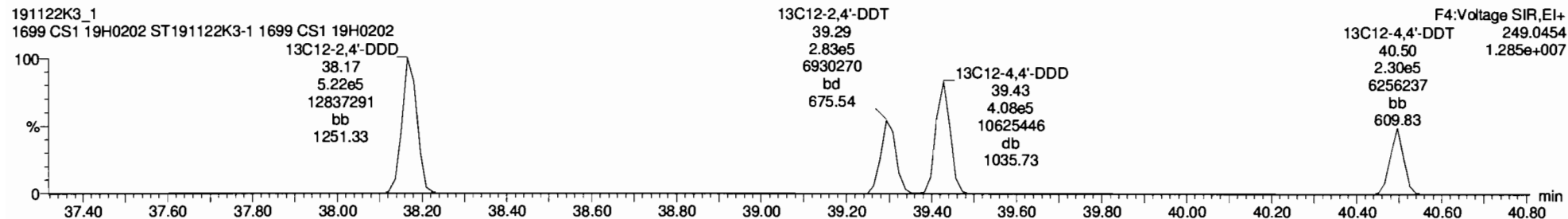
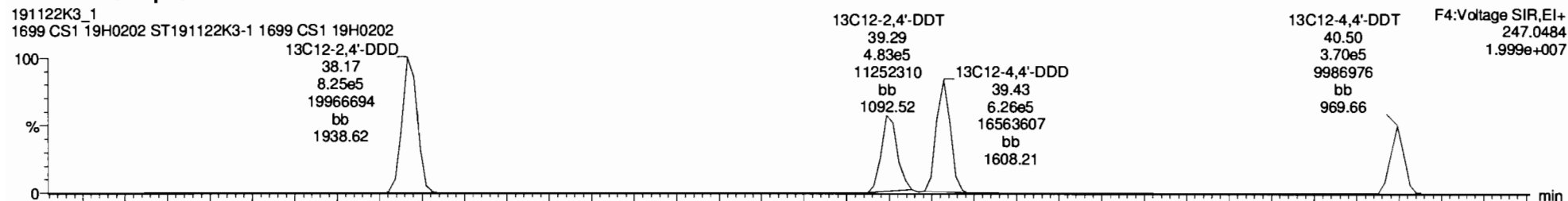
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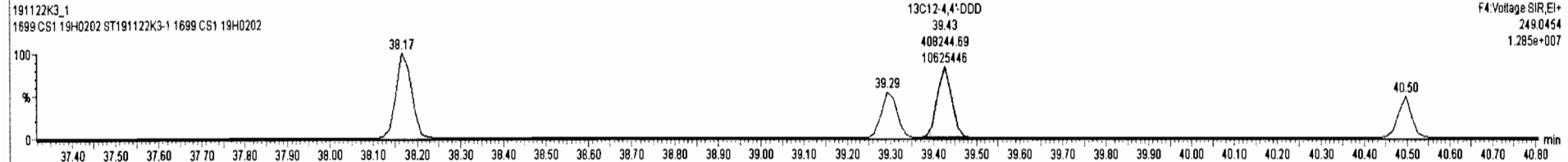
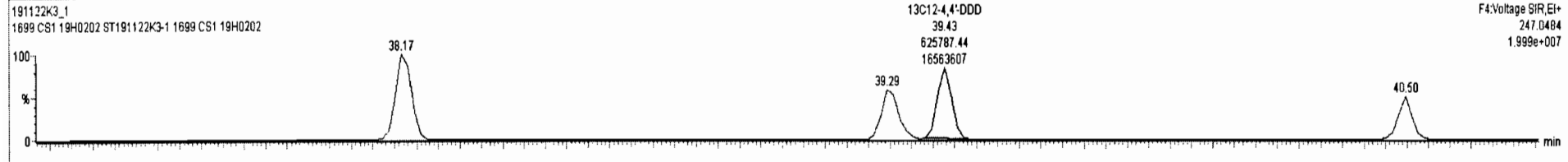
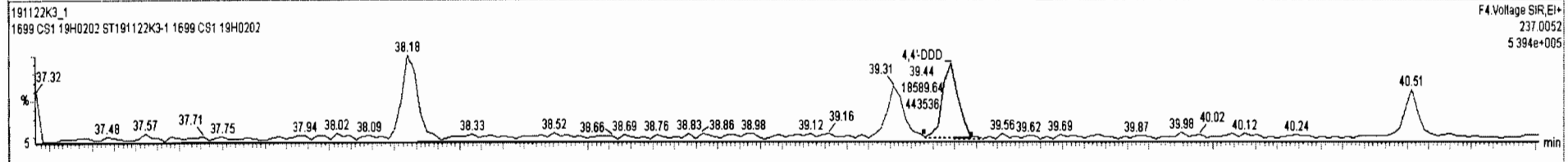
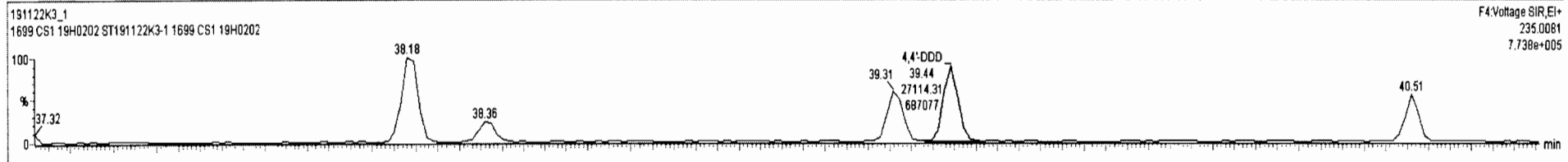
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DDD-DDT-isotopes

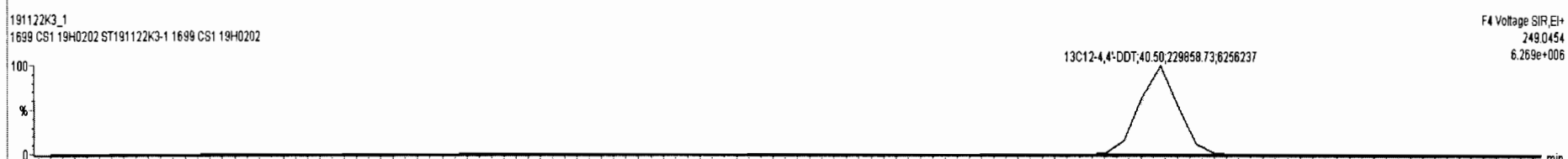
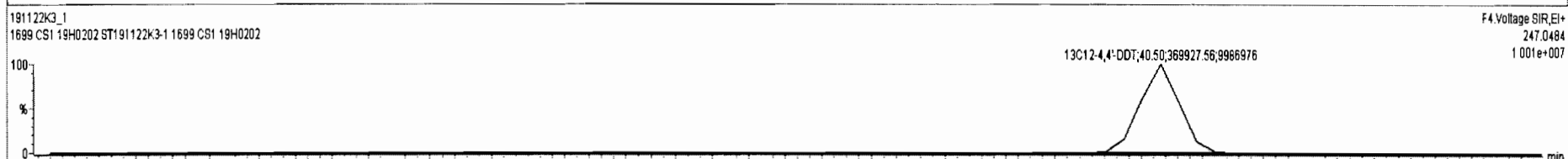
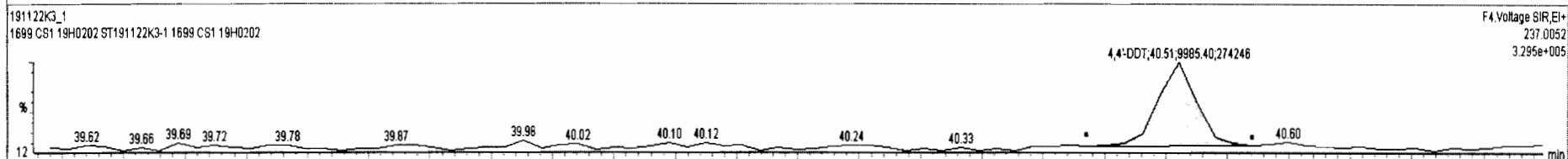
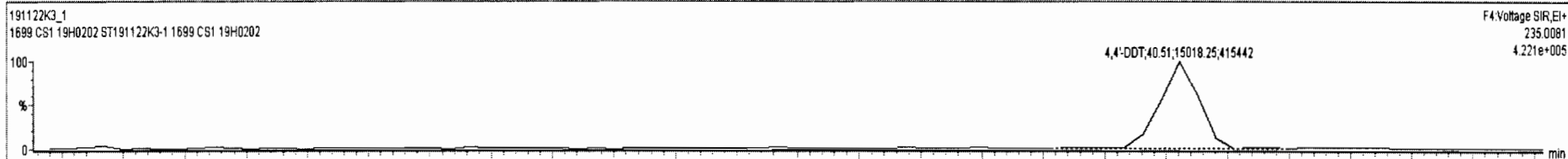


#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
18	2,4'-DDE	35.96	1.246	NO	6.7980e4	1.8350e6	2.000	8.4	10.0	0.854	0.0855
19	4,4'-DDE	37.04	1.256	NO	4.9807e4	1.3258e6	2.000	7.8	10.3	0.873	0.0898
20	Dieldrin	37.54	1.787	NO	7.7075e3	1.8314e5	2.000	9.9	10.0	0.957	0.0957
21	Endrin	38.95	1.322	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	Yth	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



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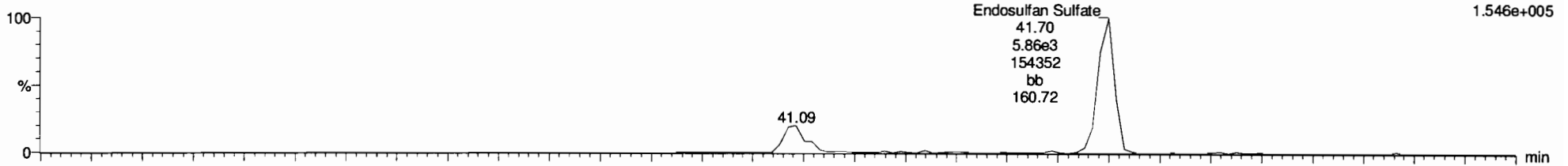
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Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

Endosulfan Sulfate

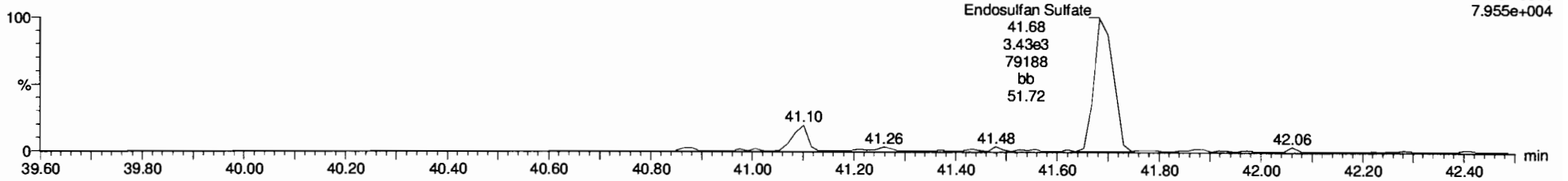
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F5:Voltage SIR,EI+
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191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

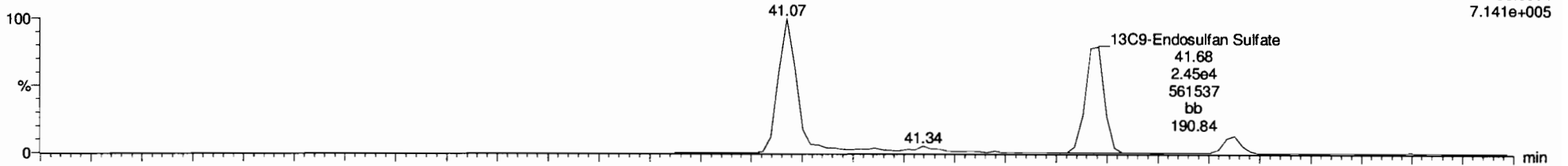
F5:Voltage SIR,EI+
264.8540
7.955e+004



¹³C9-Endosulfan Sulfate

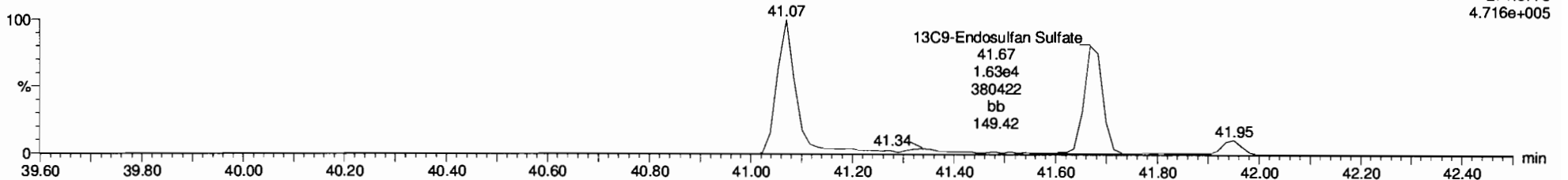
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

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

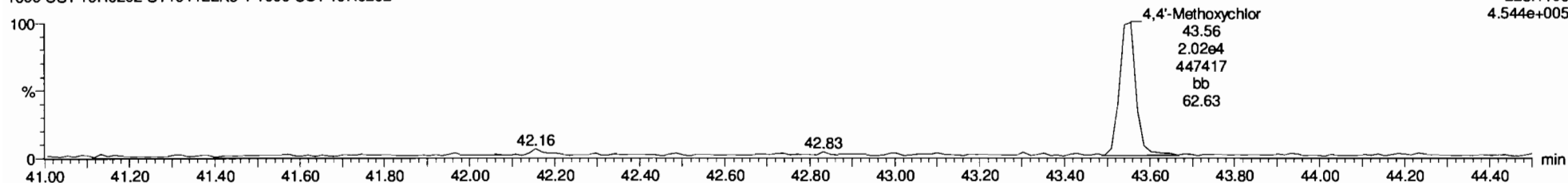
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

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

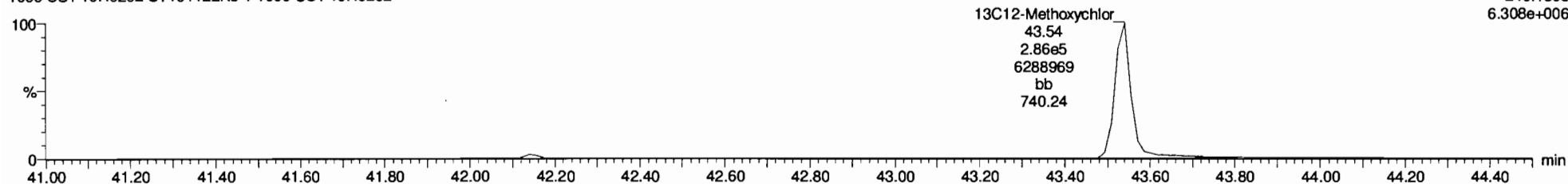
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
239.1475
1.439e+008

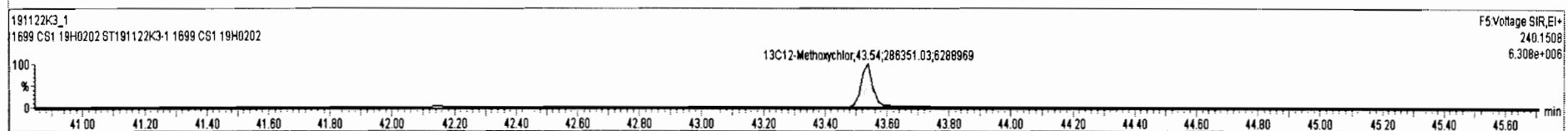
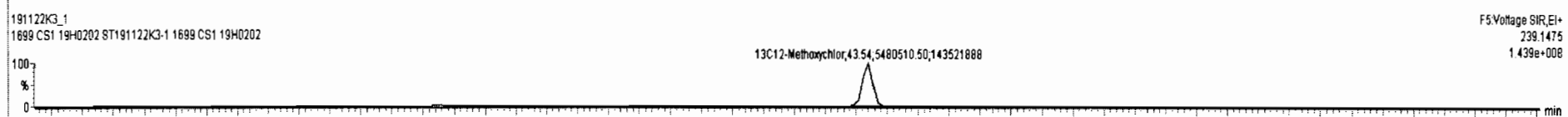
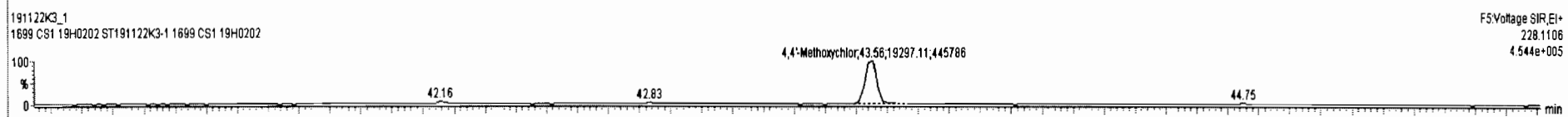
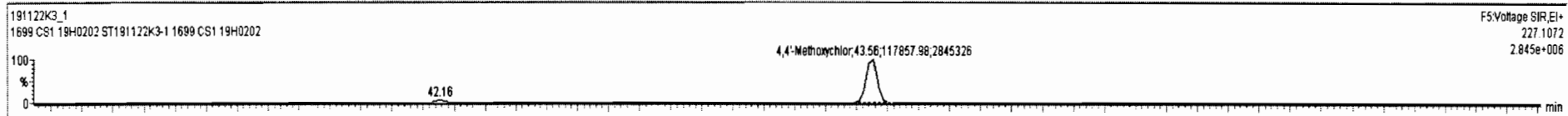


191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

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	108	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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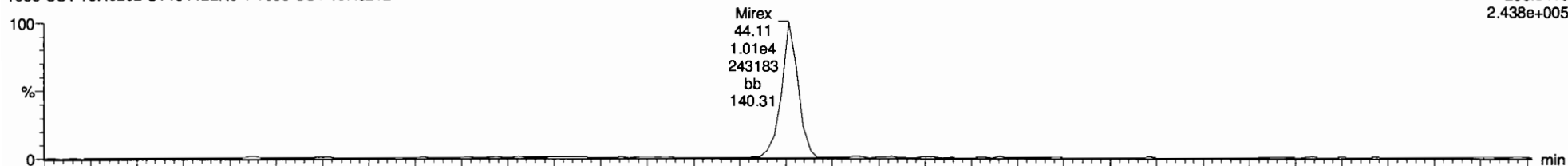
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

Mirex

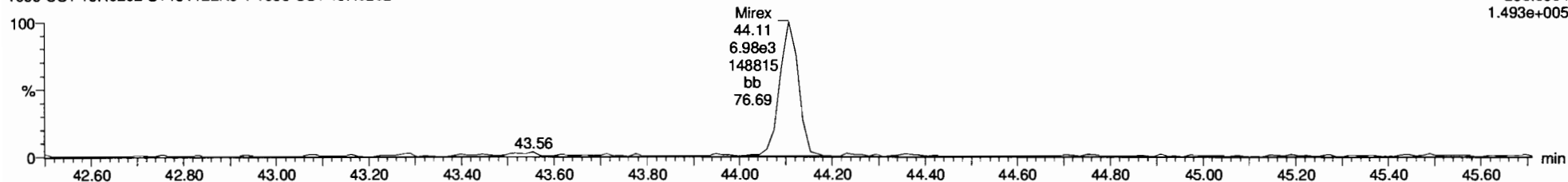
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
236.8413
2.438e+005



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

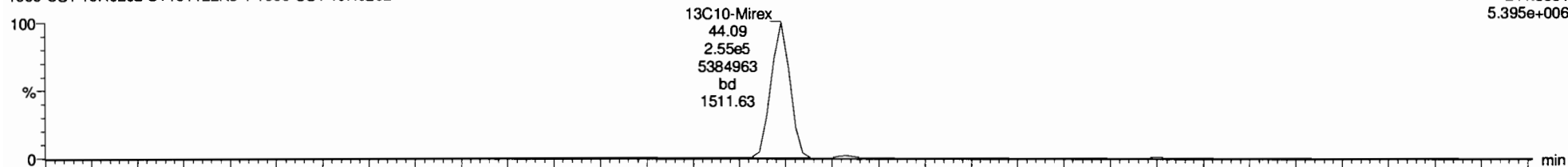
F5:Voltage SIR,EI+
238.8384
1.493e+005



13C10-Mirex

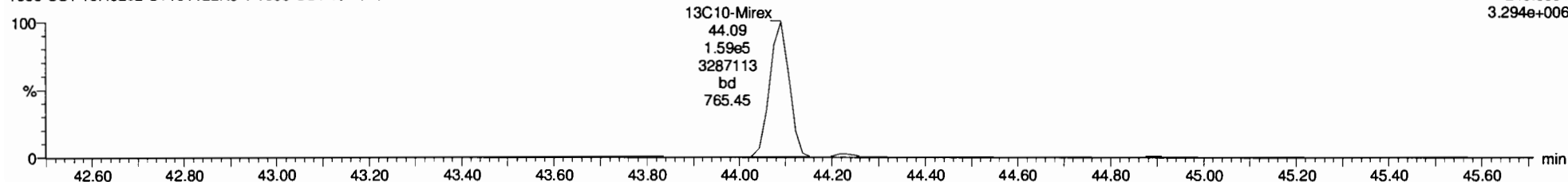
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

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

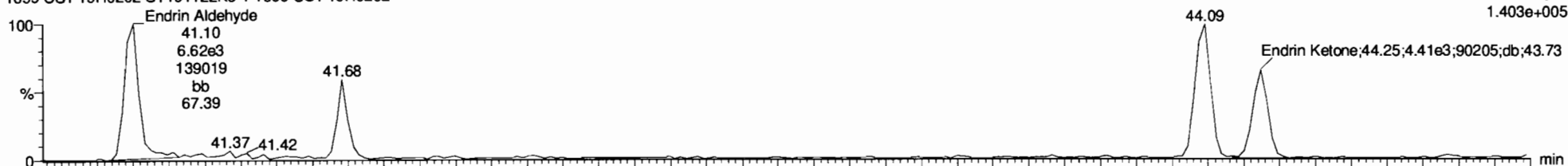
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Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

EA-EK

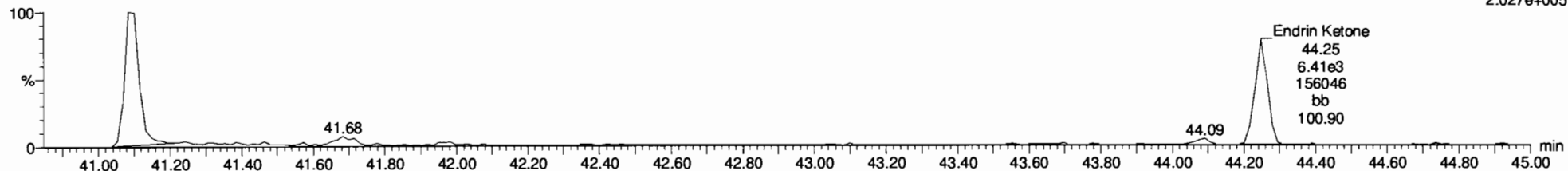
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

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

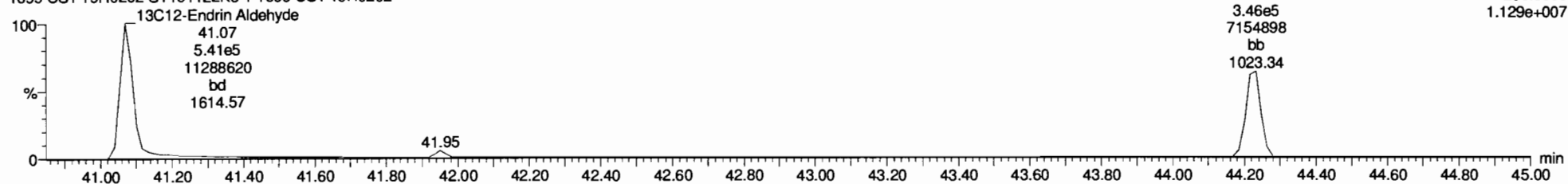
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

13C12-Endrin Ketone
44.23
1.68e5
3547818
bb
765.70
F5:Voltage SIR,EI+
253.8722
5.613e+006

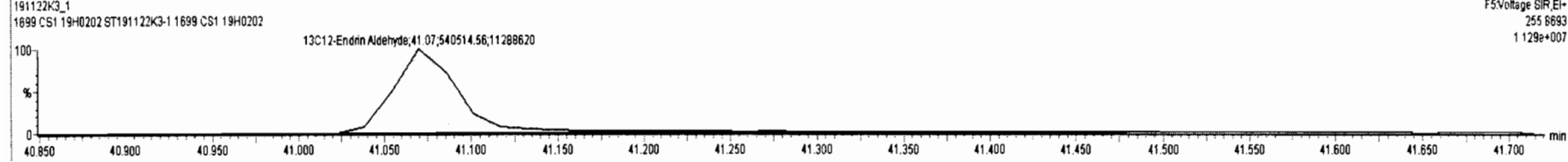
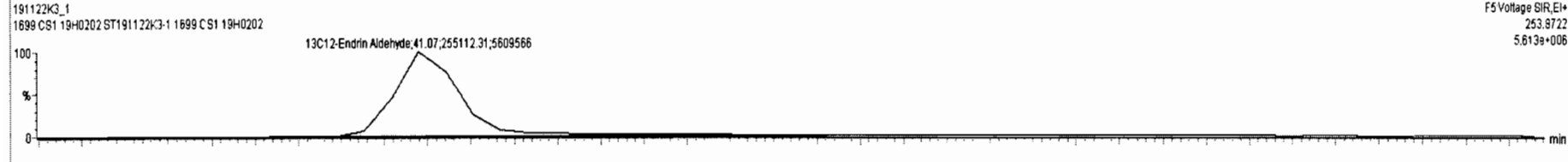
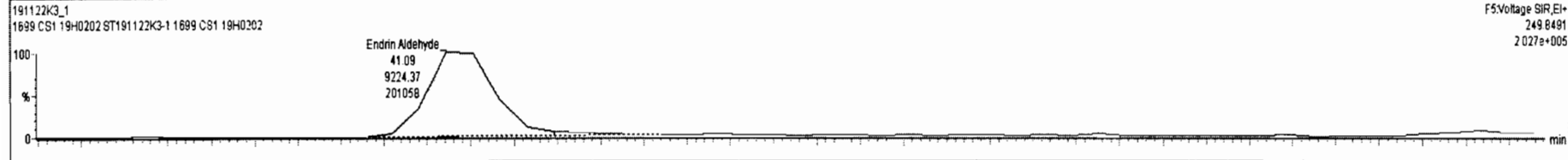
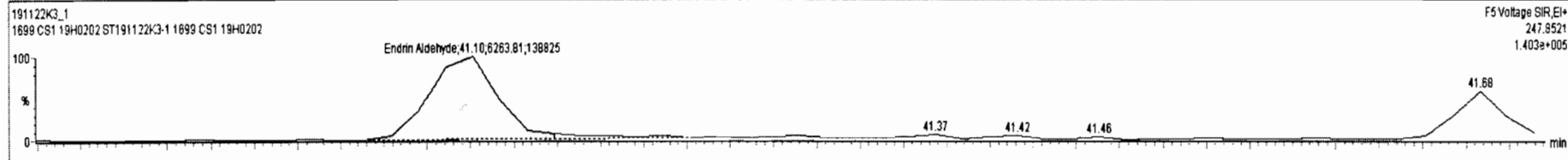


191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

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	4,4'-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	7.8833e5	10.000	-0.2	9.69	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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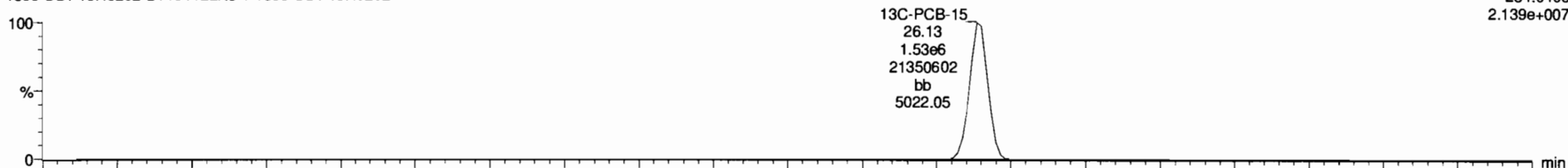
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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13C-PCB-15

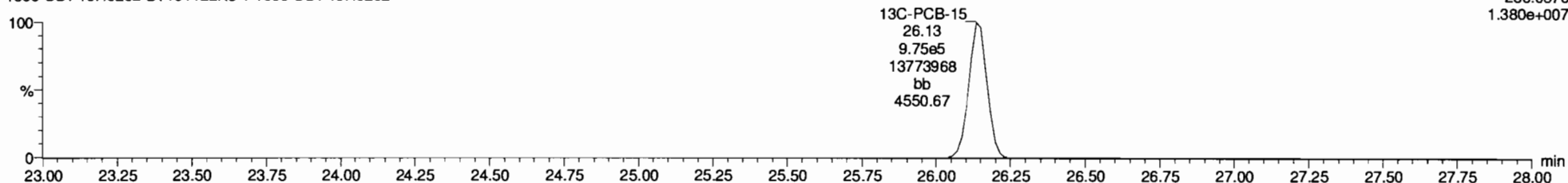
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F2:Voltage SIR,EI+
234.0406
2.139e+007



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

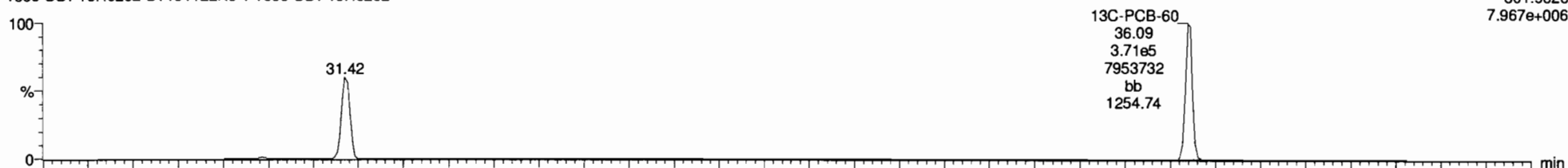
F2:Voltage SIR,EI+
236.0376
1.380e+007



13C-PCB-60

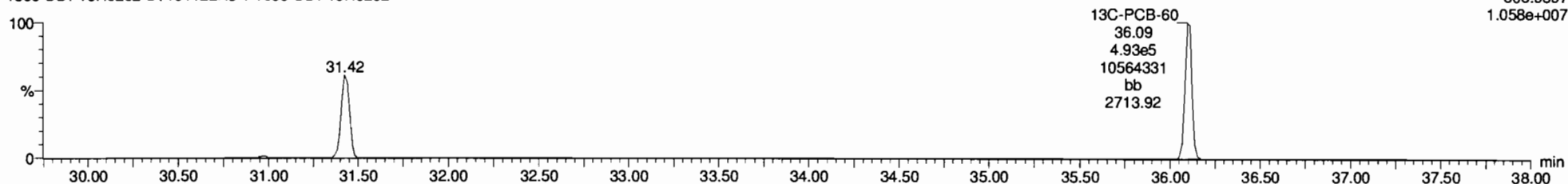
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

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

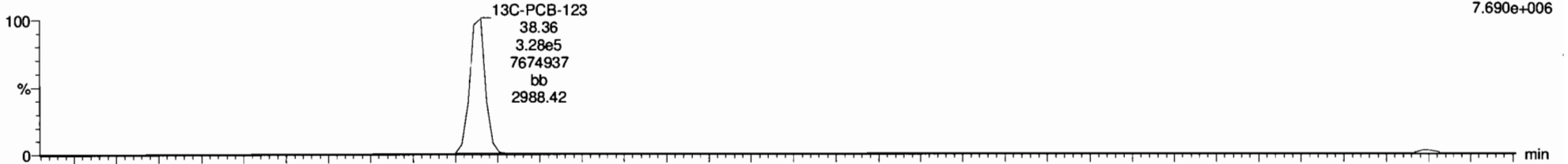
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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13C-PCB-123

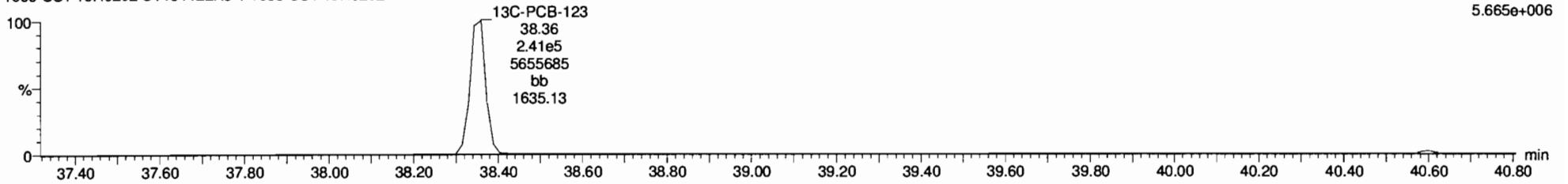
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F4:Voltage SIR,EI+
337.9210
7.690e+006



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

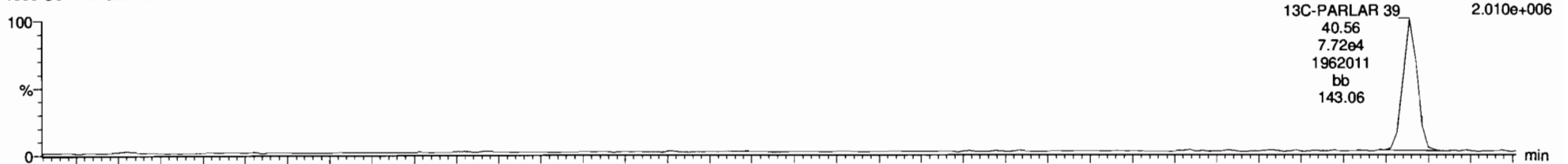
F4:Voltage SIR,EI+
339.9180
5.665e+006



13C-PARLAR 39

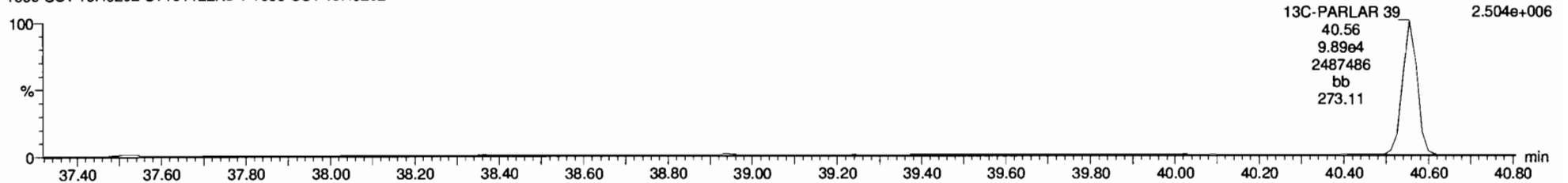
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

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



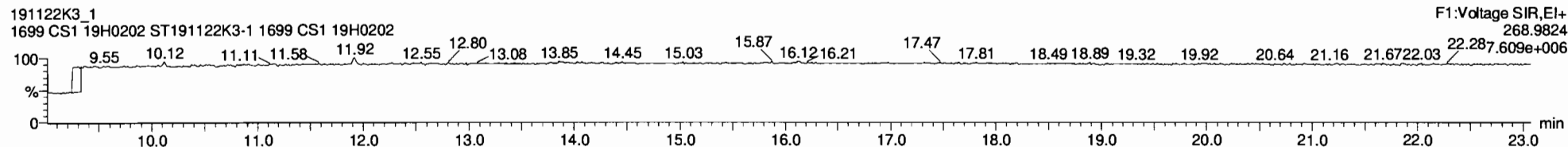
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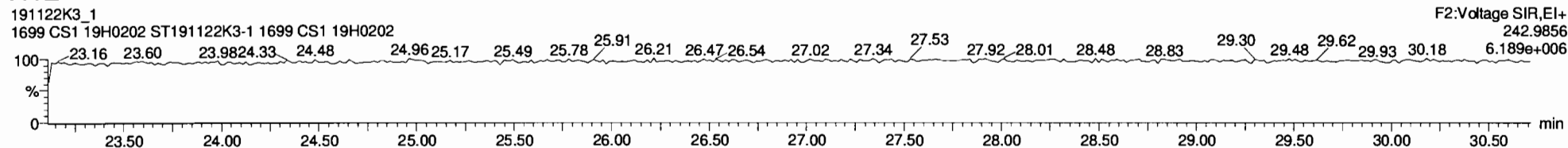
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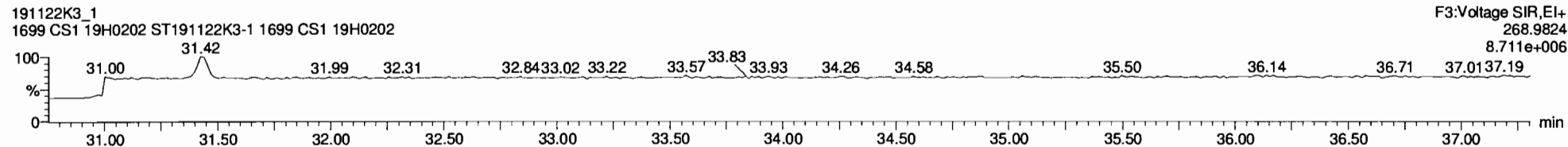
PFK1



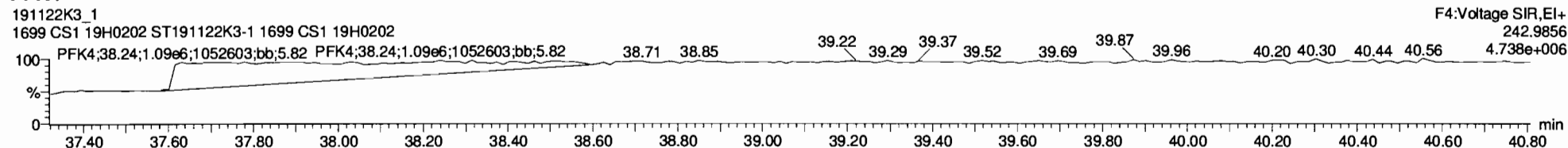
PFK2



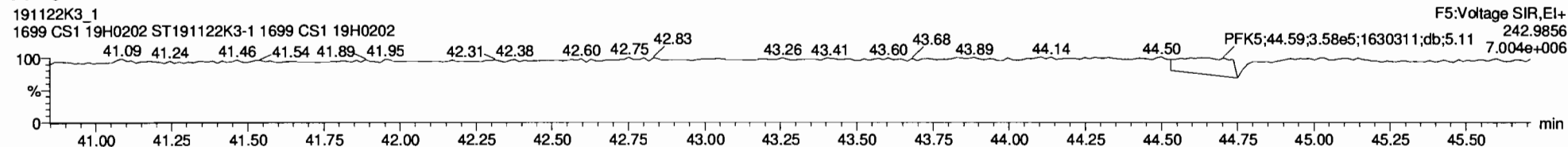
PFK3



PFK4



PFK5



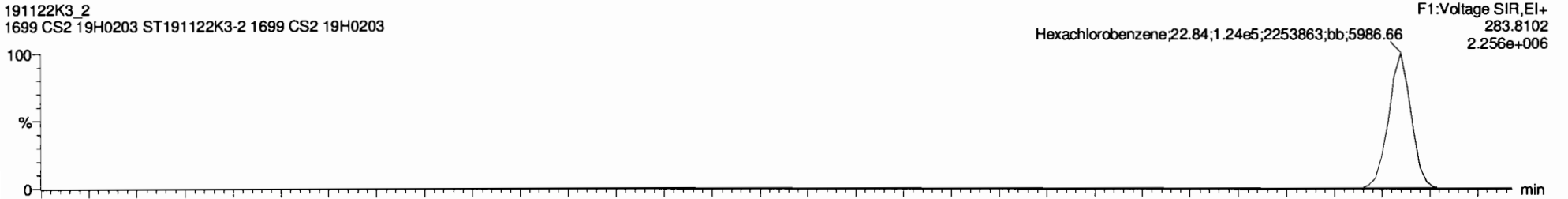
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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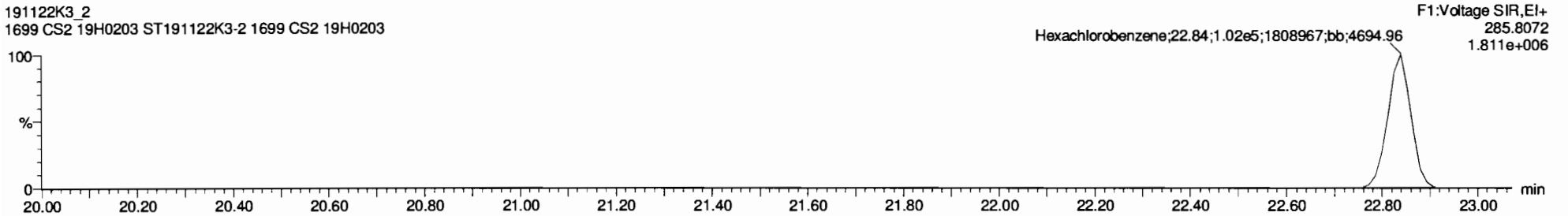
Hexachlorobenzene

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



F1:Voltage SIR,EI+
283.8102
2.256e+006

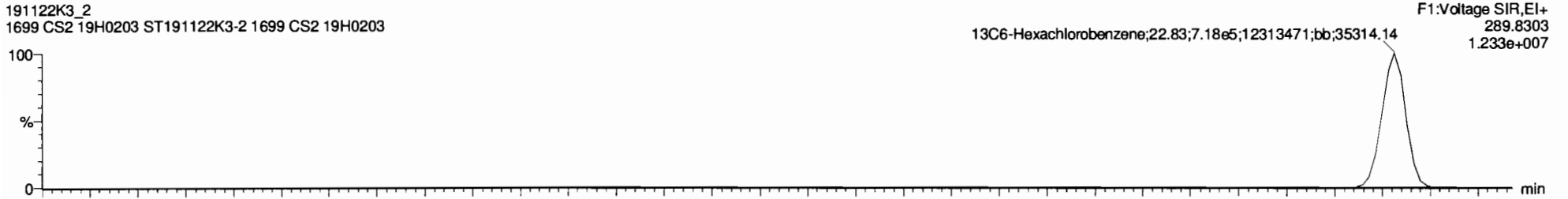
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



F1:Voltage SIR,EI+
285.8072
1.811e+006

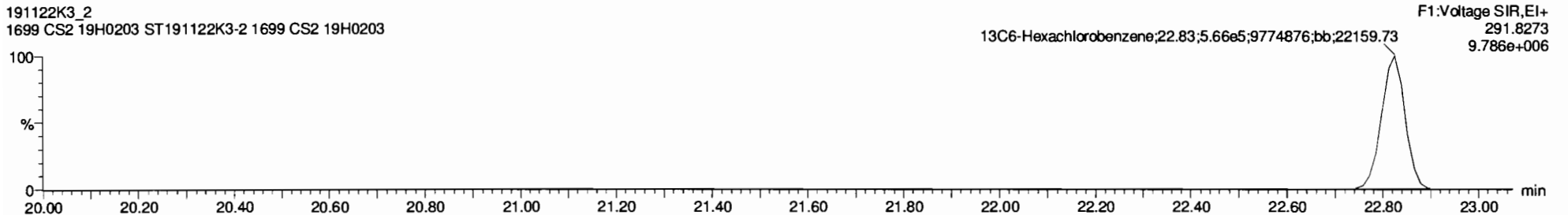
13C6-Hexachlorobenzene

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



F1:Voltage SIR,EI+
289.8303
1.233e+007

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



F1:Voltage SIR,EI+
291.8273
9.786e+006

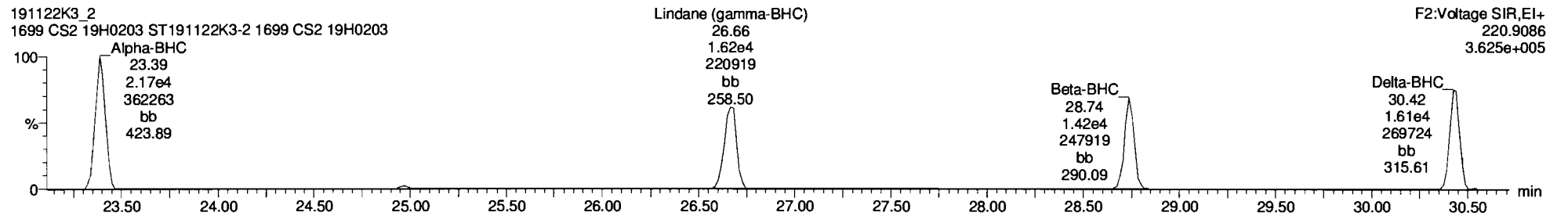
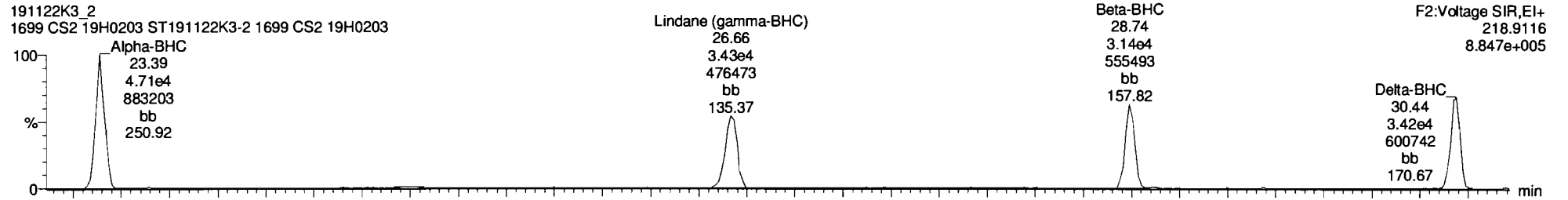
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

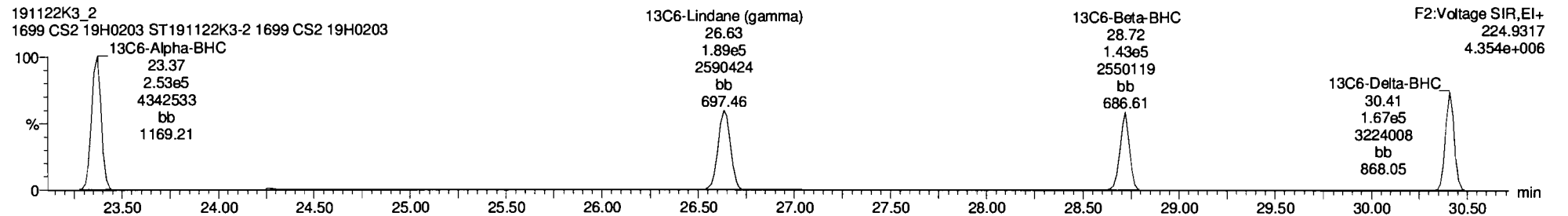
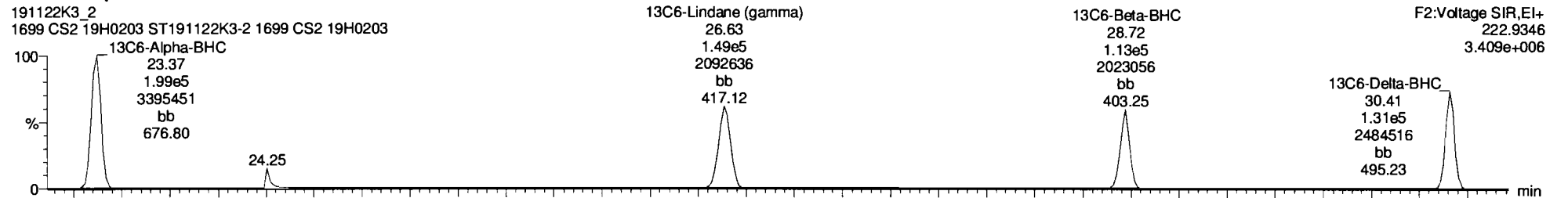
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Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

BHC Totals



BHC-isotopes



Dataset: Untitled

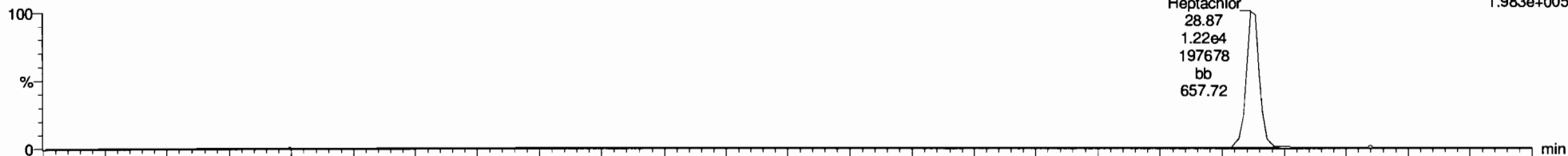
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

Heptachlor

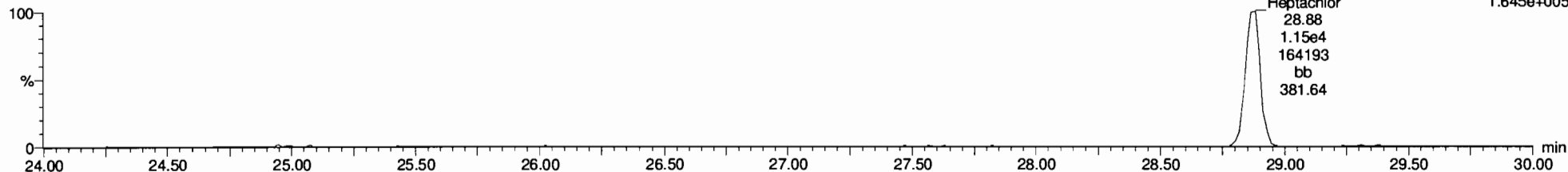
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F2:Voltage SIR,EI+
271.8102
1.983e+005



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

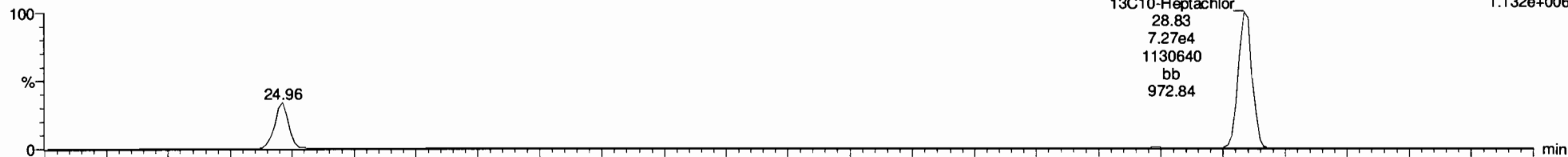
F2:Voltage SIR,EI+
273.8072
1.645e+005



¹³C10-Heptachlor

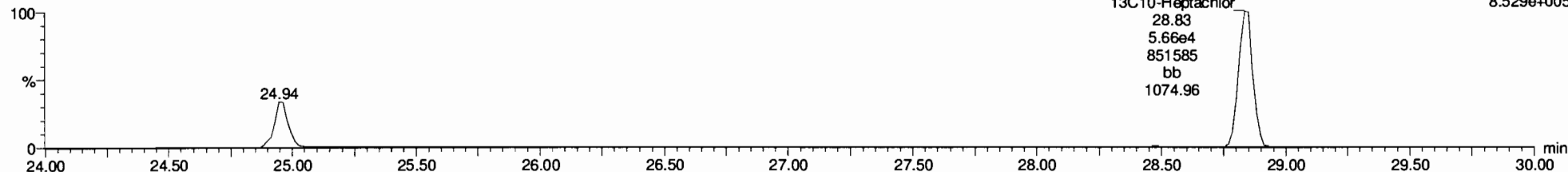
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

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

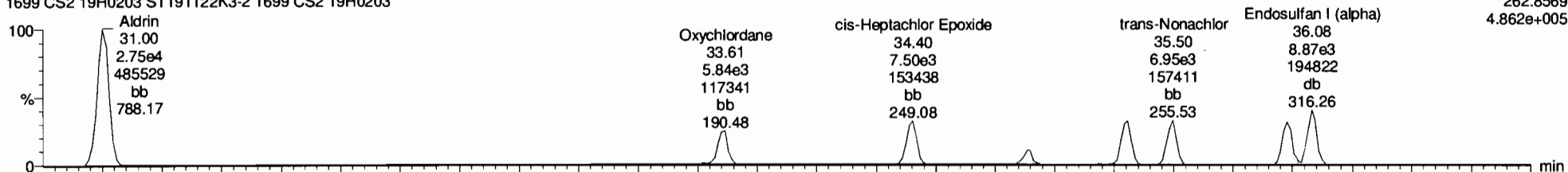
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

Aldrin-EI

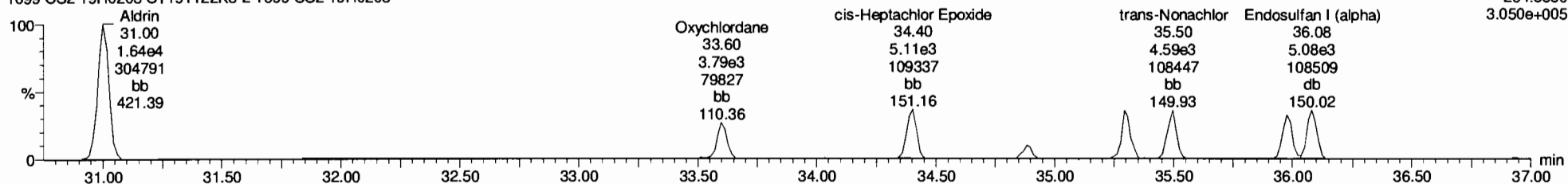
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F3:Voltage SIR,EI+
262.8569
4.862e+005



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

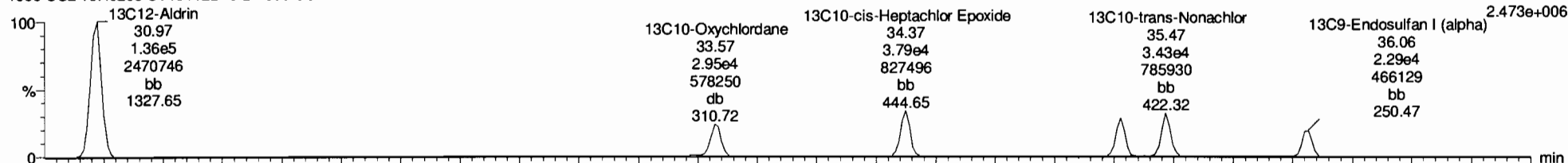
F3:Voltage SIR,EI+
264.8550
3.050e+005



Aldrin-EI-isotopes

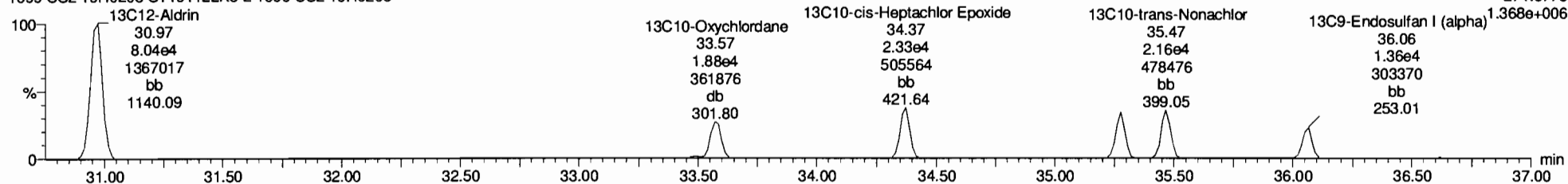
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F3:Voltage SIR,EI+
269.8804
2.473e+006

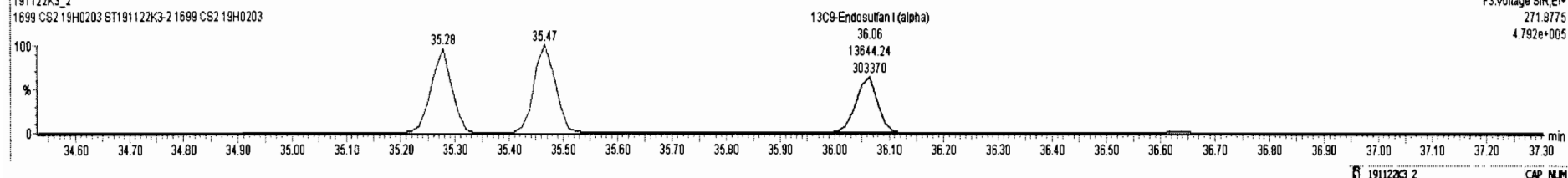
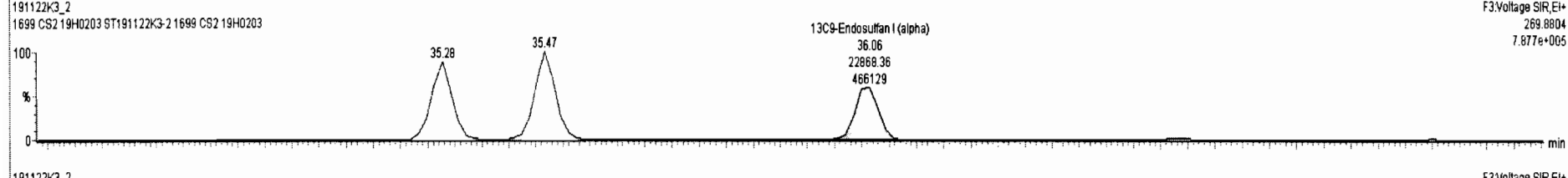
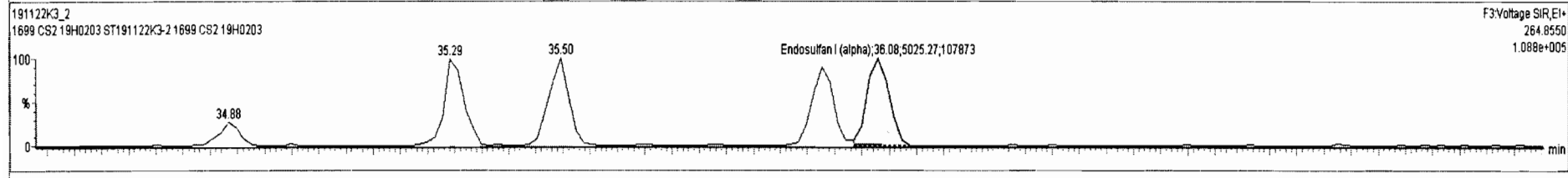
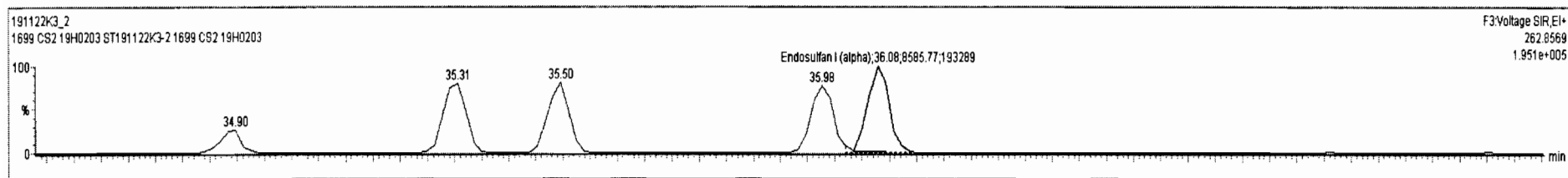


191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

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'-DDNU	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

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
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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

DDMU-DDE

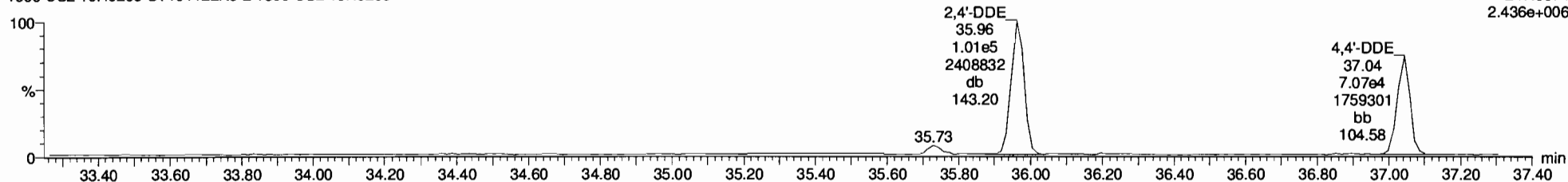
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

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

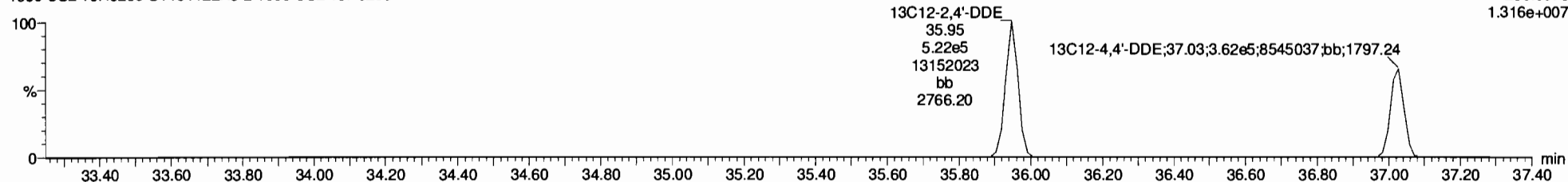
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

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



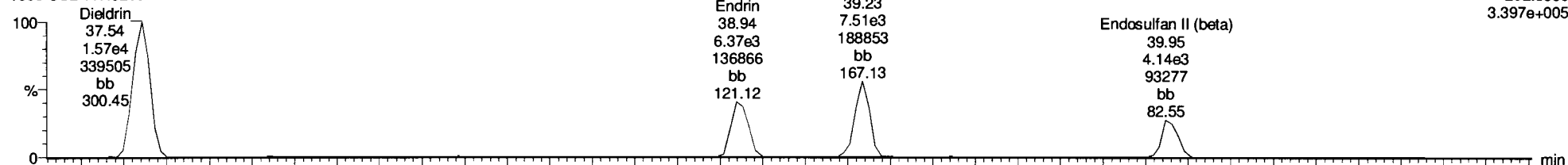
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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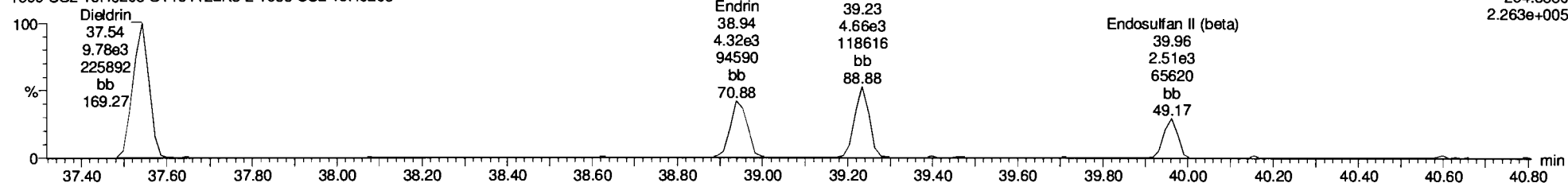
Dieldrin-EII

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



F4:Voltage SIR,EI+
262.8569
3.397e+005

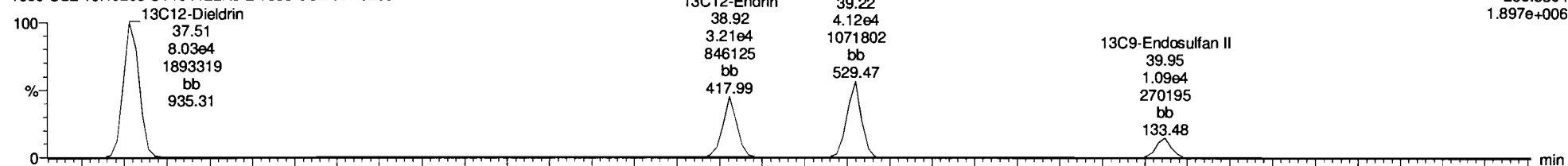
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



F4:Voltage SIR,EI+
264.8550
2.263e+005

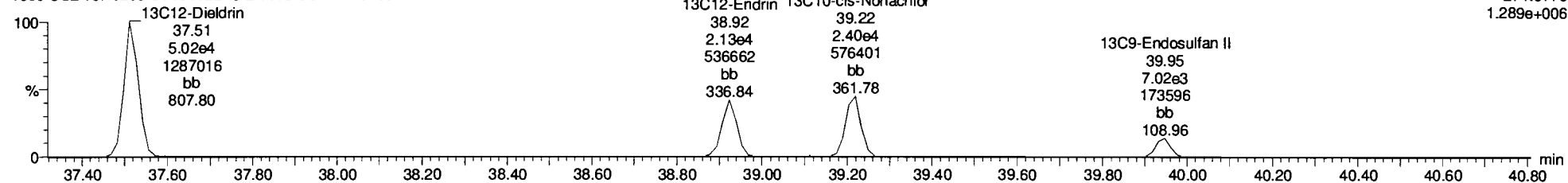
Dieldrin-EII-isotopes

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



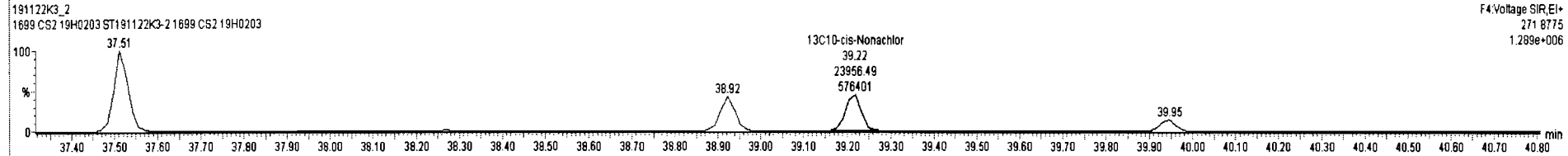
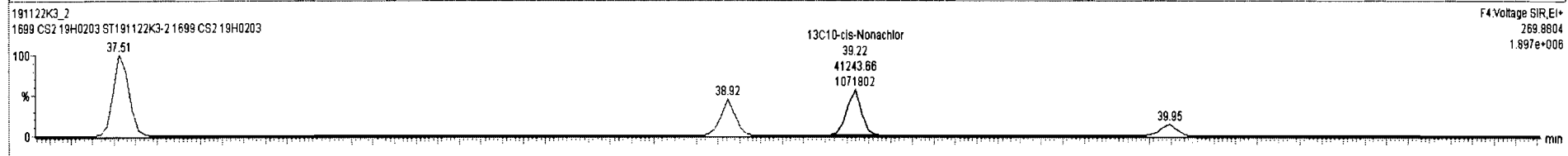
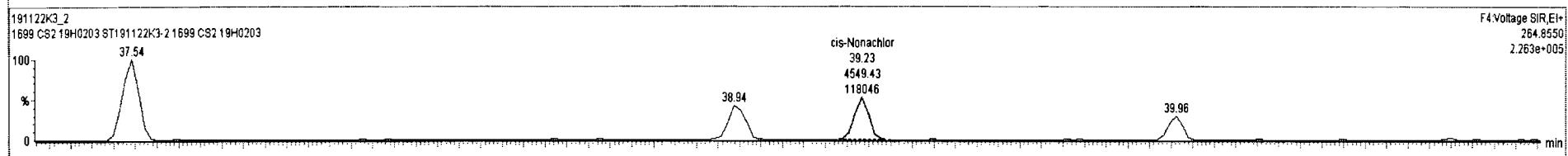
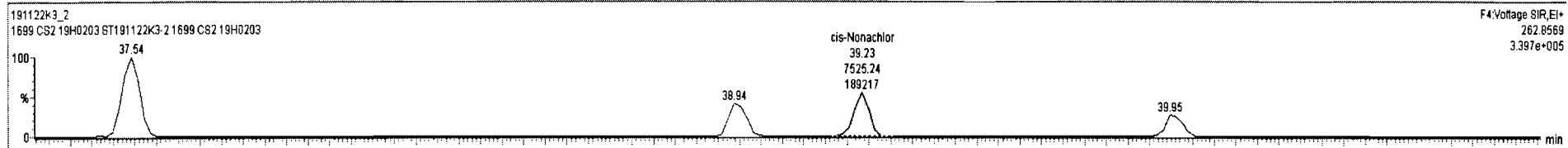
F4:Voltage SIR,EI+
269.8804
1.897e+006

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



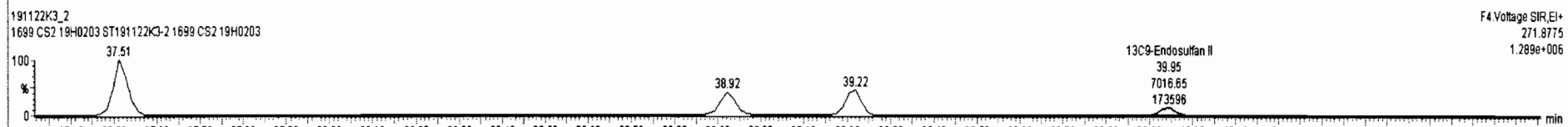
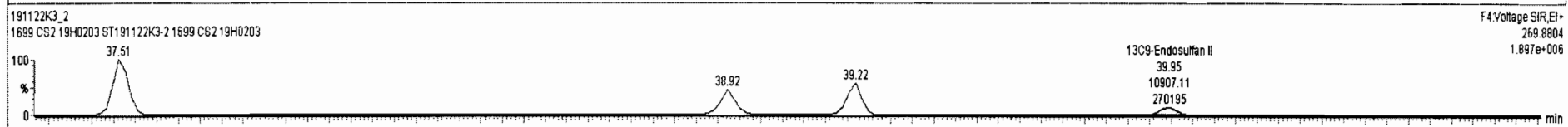
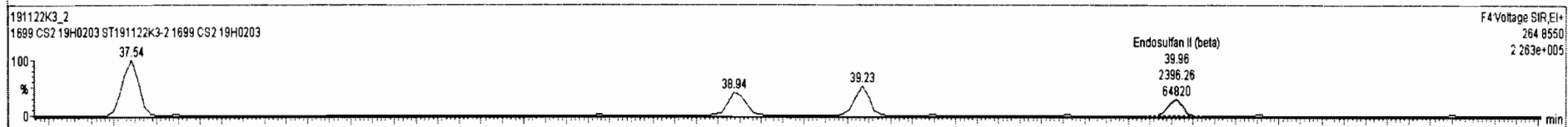
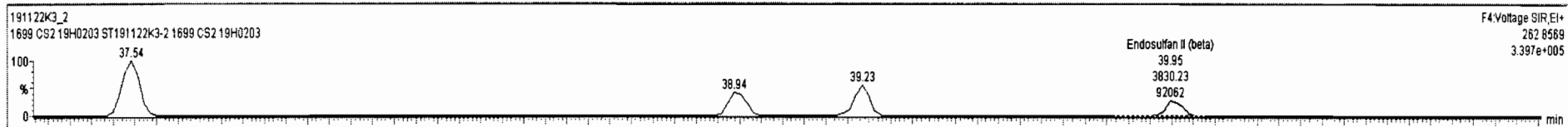
F4:Voltage SIR,EI+
271.8775
1.289e+006

#	Name	RT	RA	Yth	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF 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	9.3036e5	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	5.4653e4	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	9.90	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	13C8-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

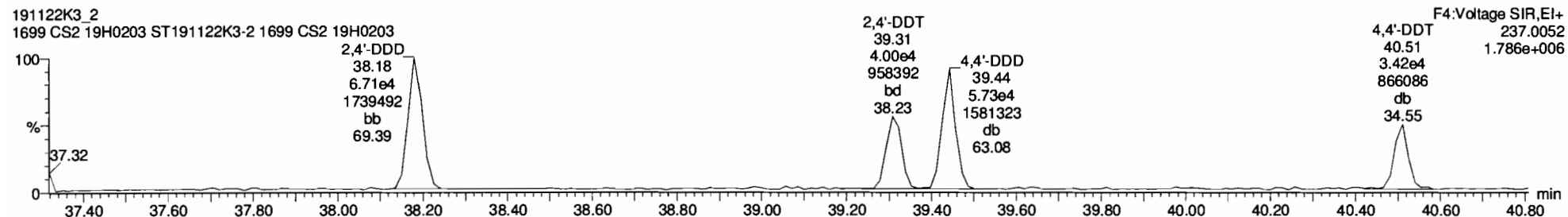
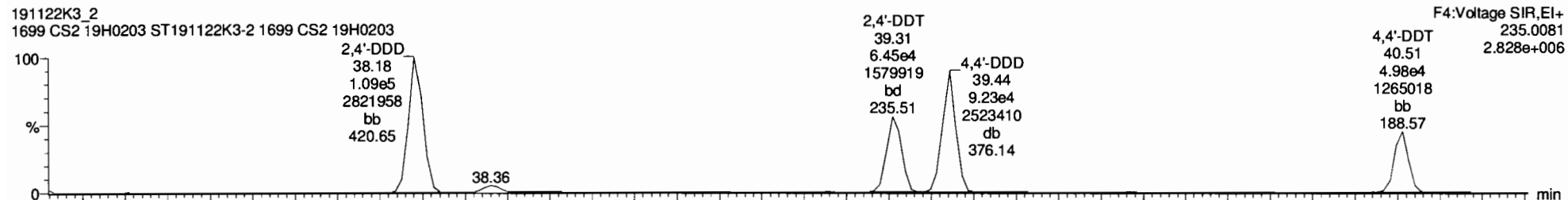


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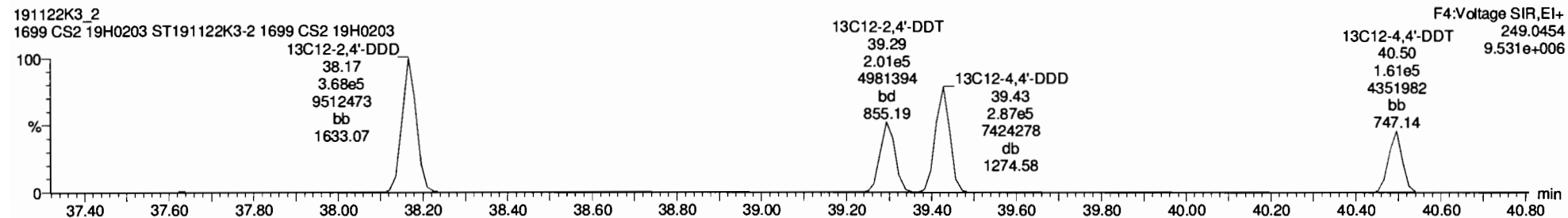
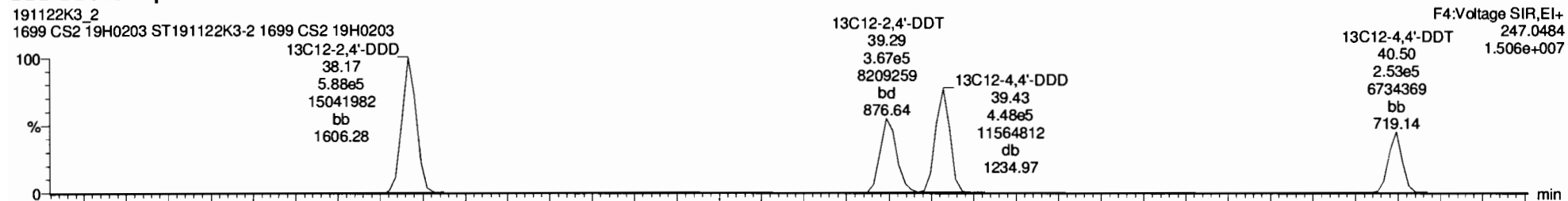
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
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Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

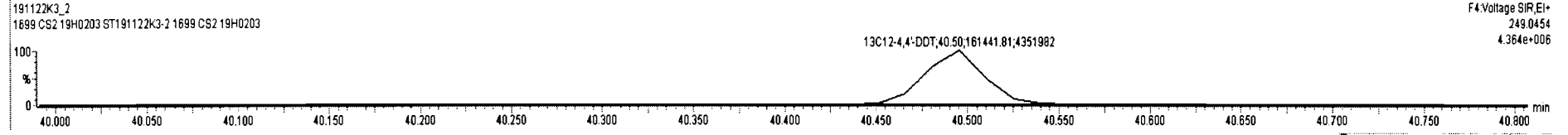
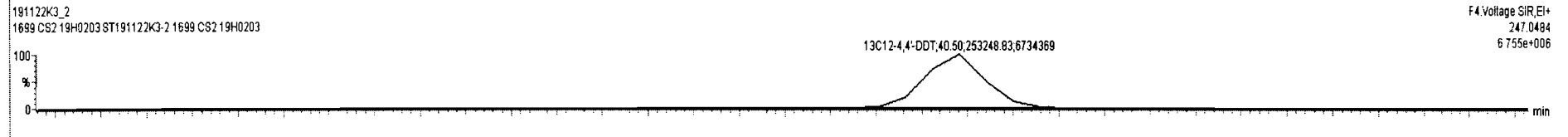
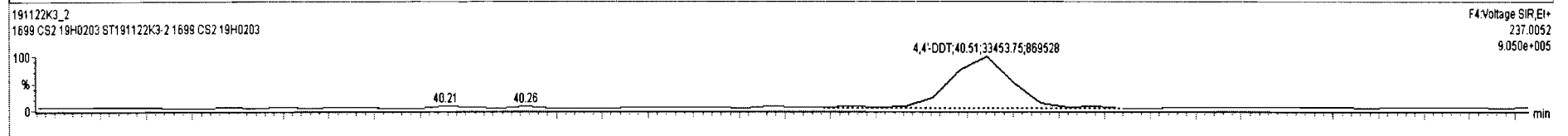
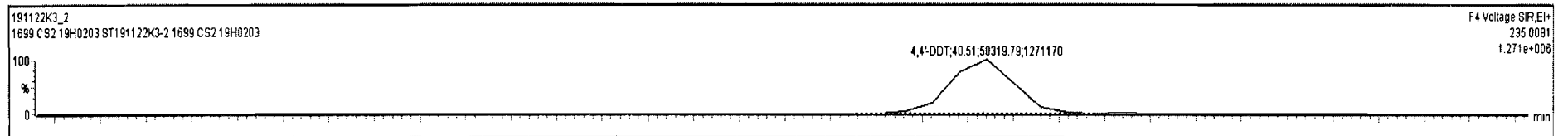
DDD-DDT



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	39.97	1.692	NO	2.1652e5	1.8386e6	50.000	-3.1	3.19	0.122	0.00388



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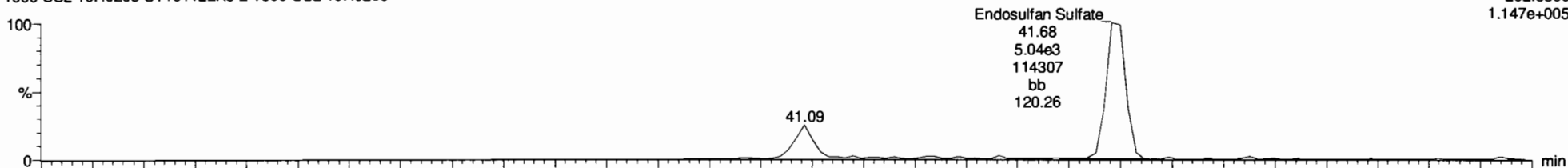
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

Endosulfan Sulfate

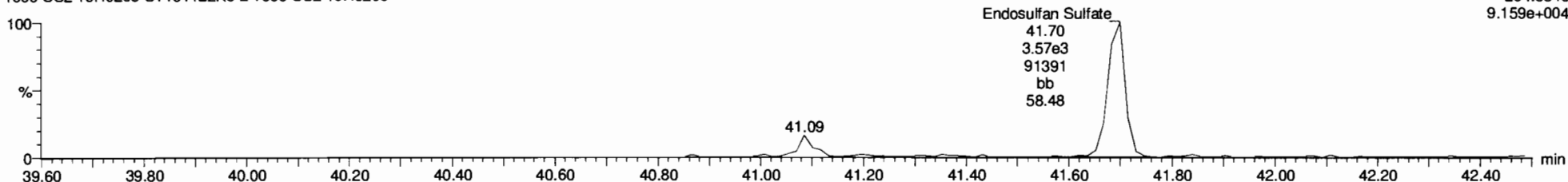
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
262.8569
1.147e+005



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

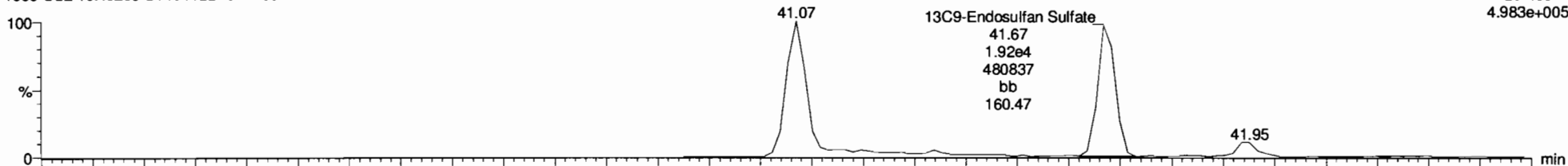
F5:Voltage SIR,EI+
264.8540
9.159e+004



13C9-Endosulfan Sulfate

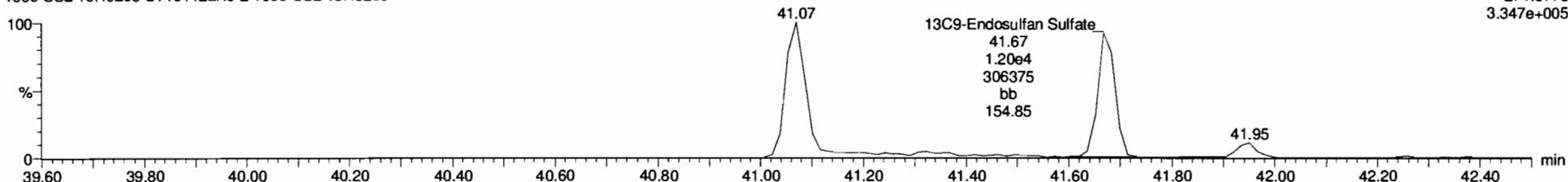
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
269.8804
4.983e+005

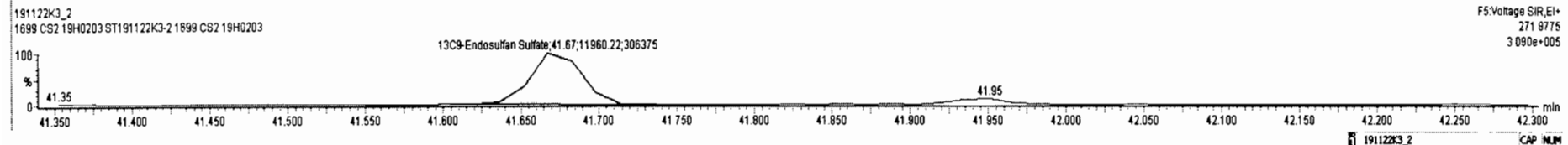
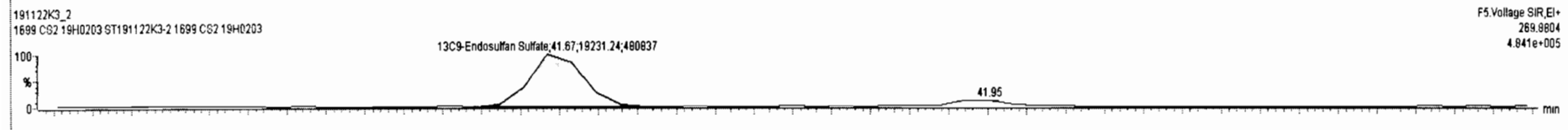
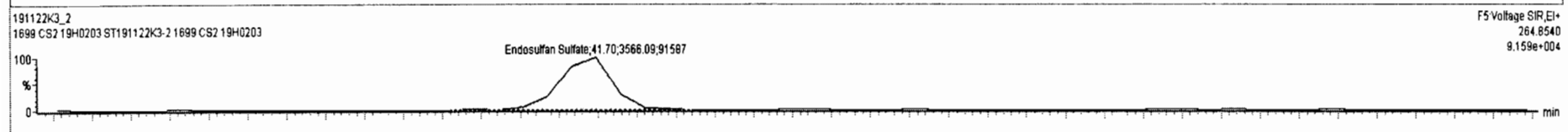
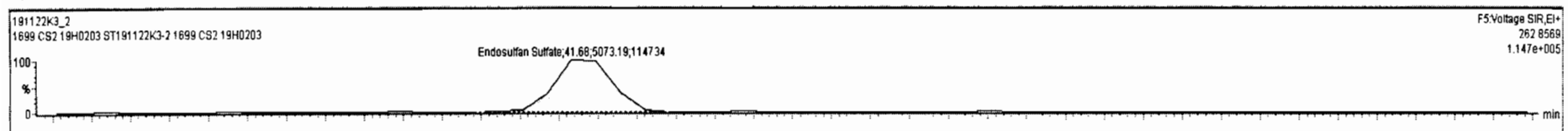


191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

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-Nonachlor	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	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	1.429	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	1.294	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

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

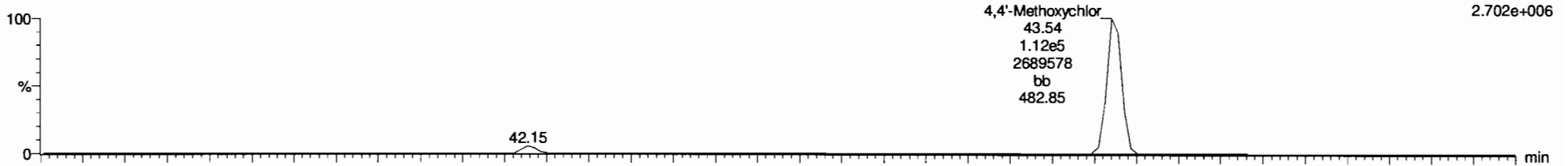
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

4,4'-Methoxychlor

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

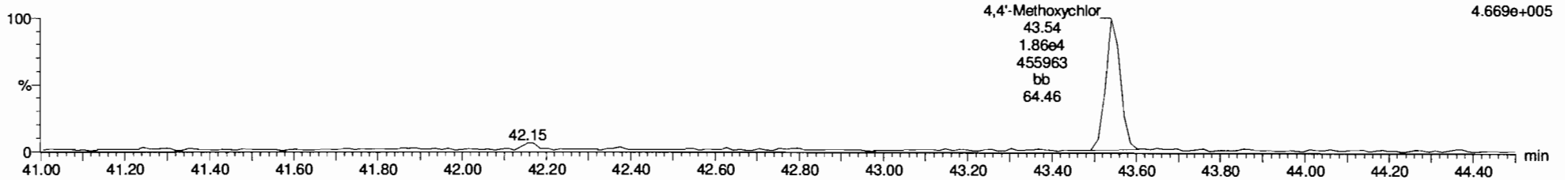
F5:Voltage SIR,EI+
227.1072
2.702e+006



4,4'-Methoxychlor
43.54
1.12e5
2689578
bb
482.85

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
228.1106
4.669e+005

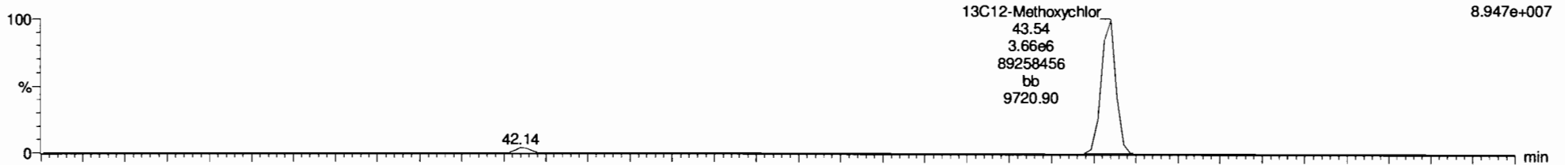


4,4'-Methoxychlor
43.54
1.86e4
455963
bb
64.46

13C12-Methoxychlor

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

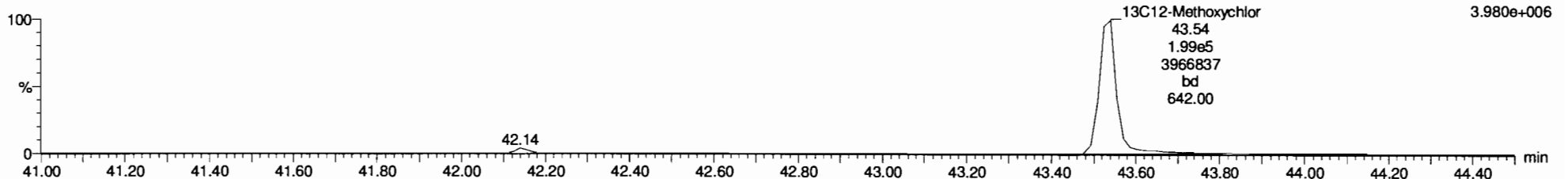
F5:Voltage SIR,EI+
239.1475
8.947e+007



13C12-Methoxychlor
43.54
3.66e6
89258456
bb
9720.90

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
240.1508
3.980e+006



13C12-Methoxychlor
43.54
1.99e5
3966837
bd
642.00

Dataset: Untitled

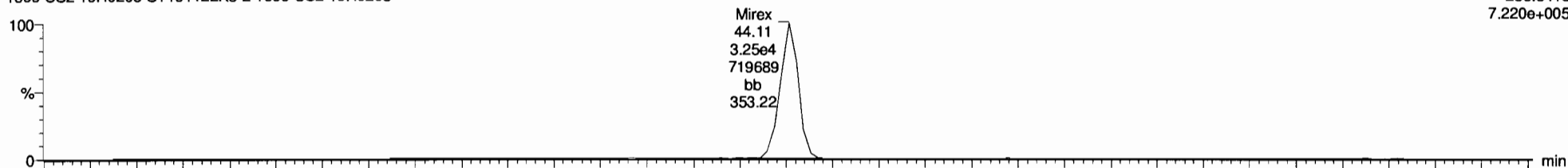
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Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

Mirex

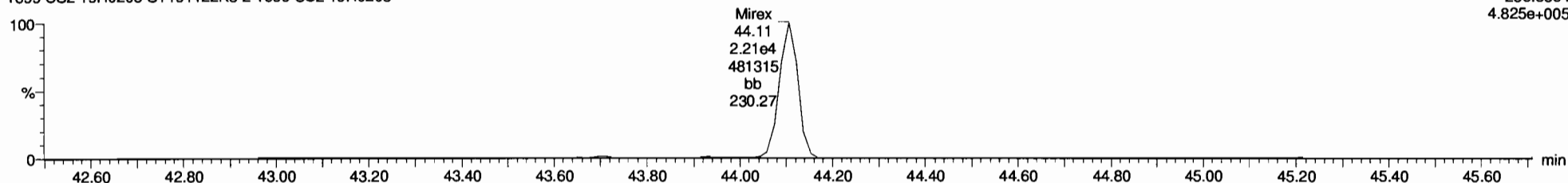
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
236.8413
7.220e+005



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

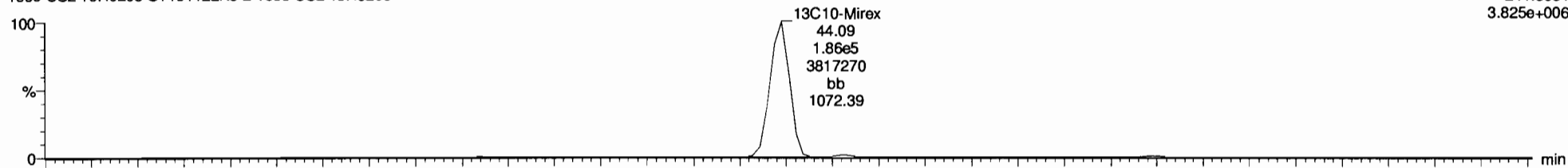
F5:Voltage SIR,EI+
238.8384
4.825e+005



13C10-Mirex

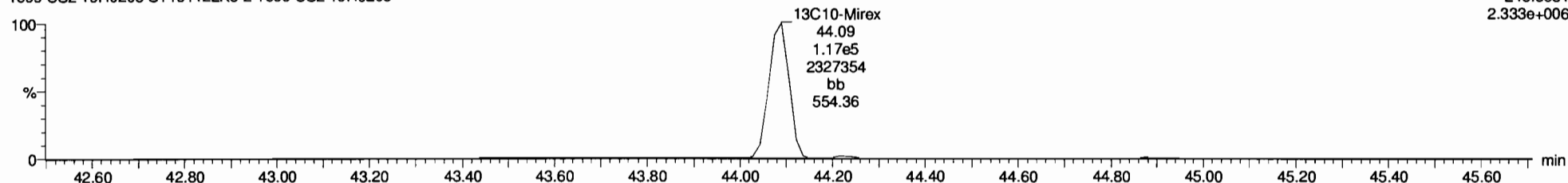
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

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



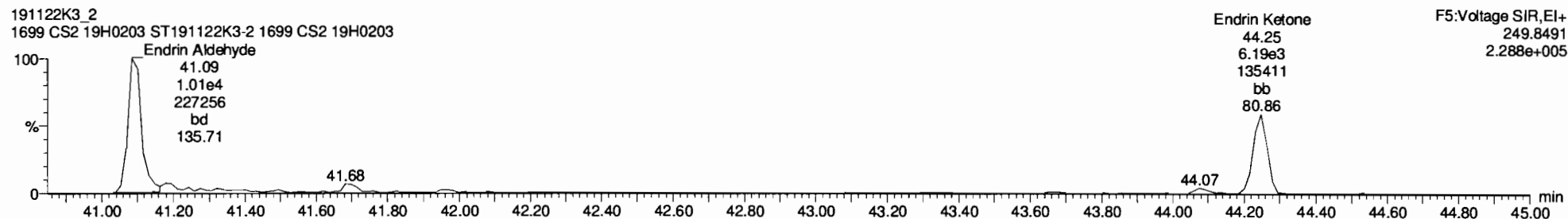
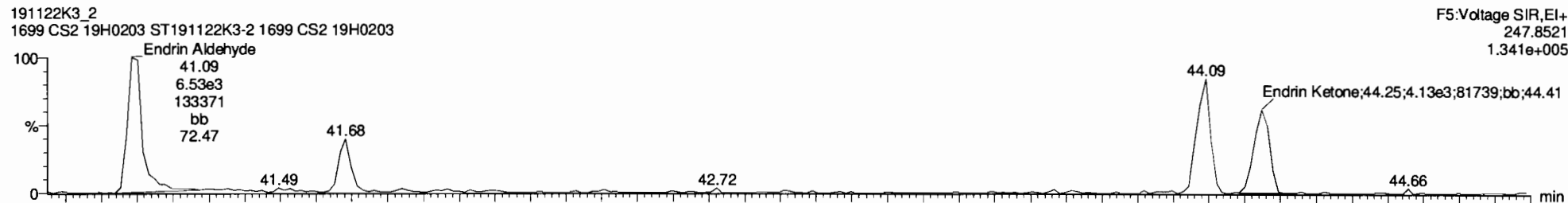
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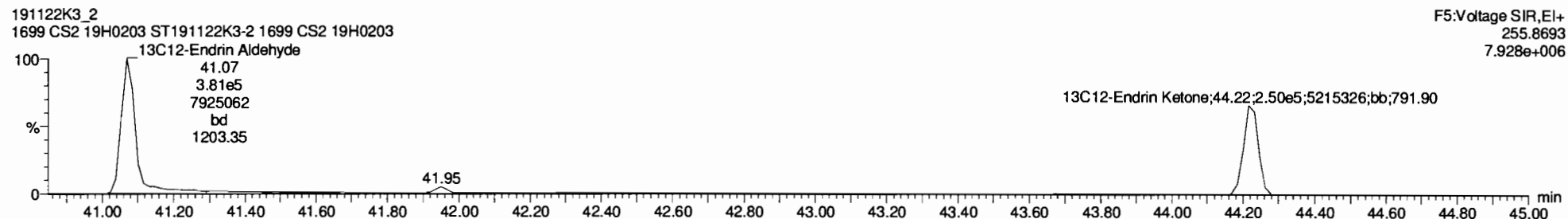
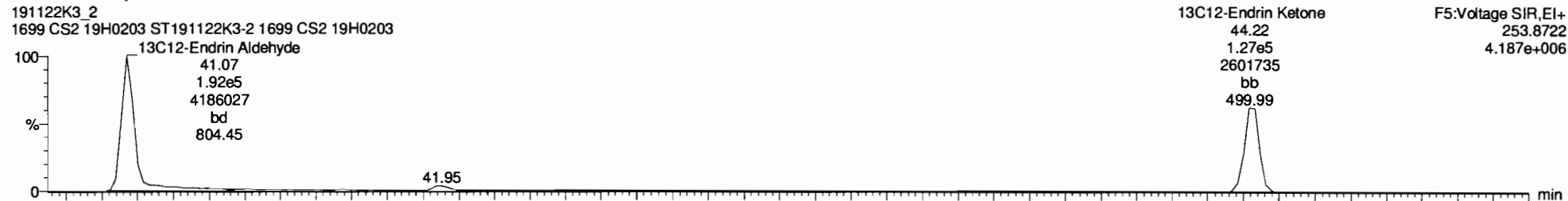
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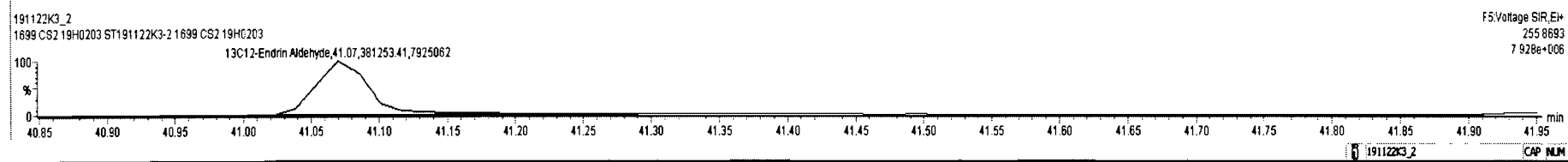
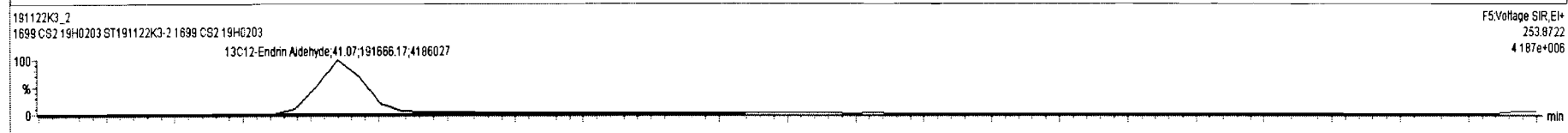
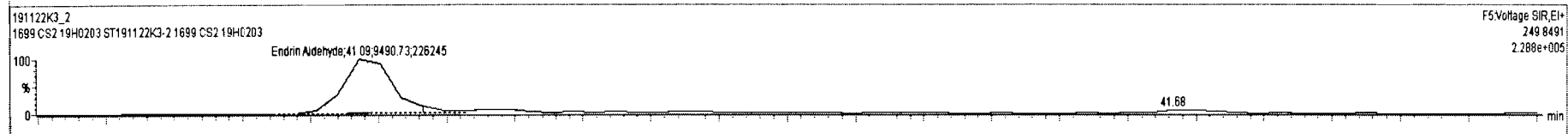
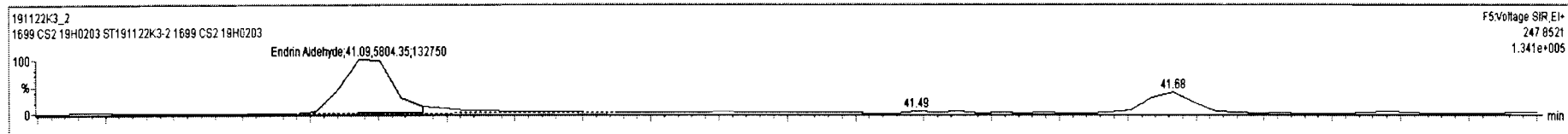
EA-EK



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	1.5286e4	5.7282e5	15.000	-7.5	10.3	0.982	0.0890
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-Alkin	30.97	1.692	NO	2.1652e5	1.8386e6	50.000	-3.1	3.19	0.122	0.00388



Dataset: Untitled

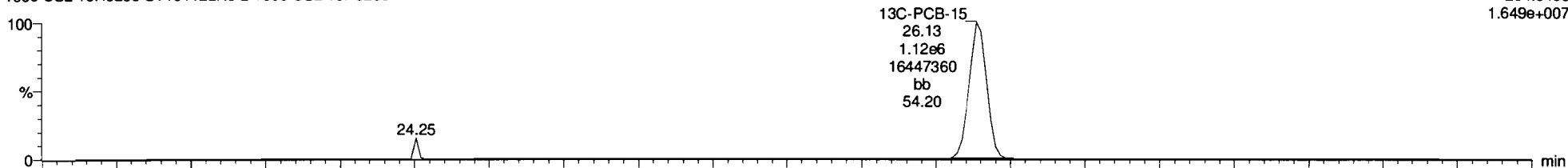
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13C-PCB-15

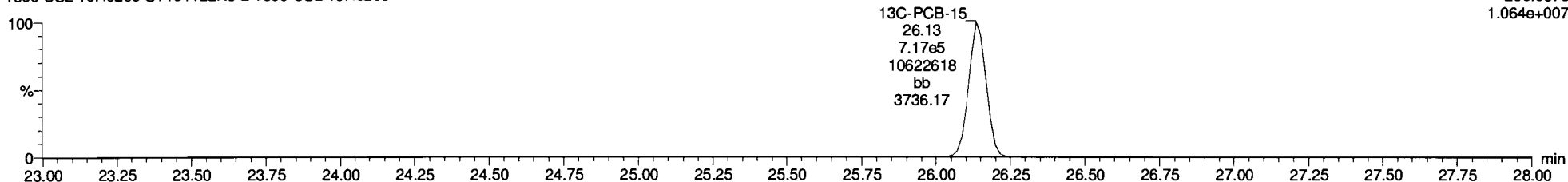
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F2:Voltage SIR,EI+
234.0406
1.649e+007



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

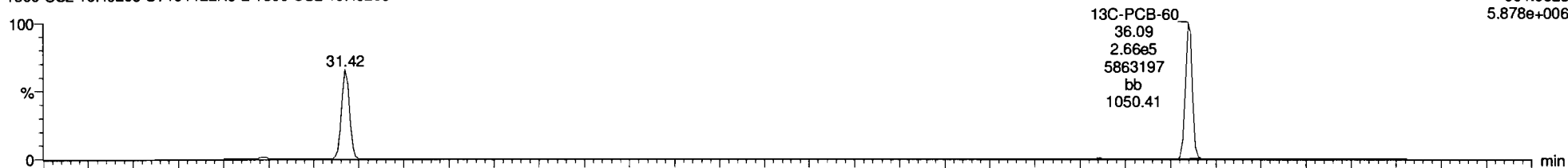
F2:Voltage SIR,EI+
236.0376
1.064e+007



13C-PCB-60

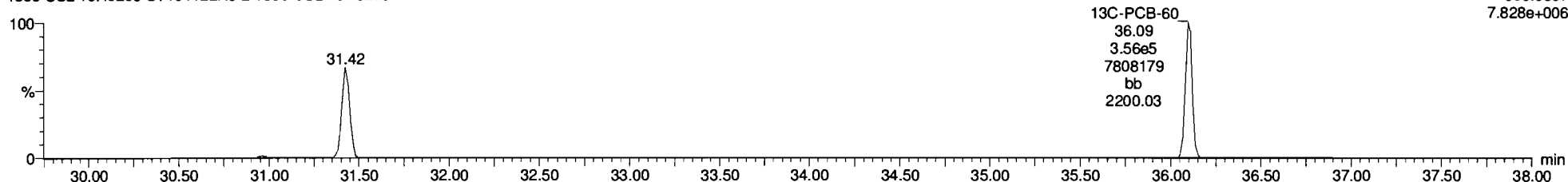
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

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

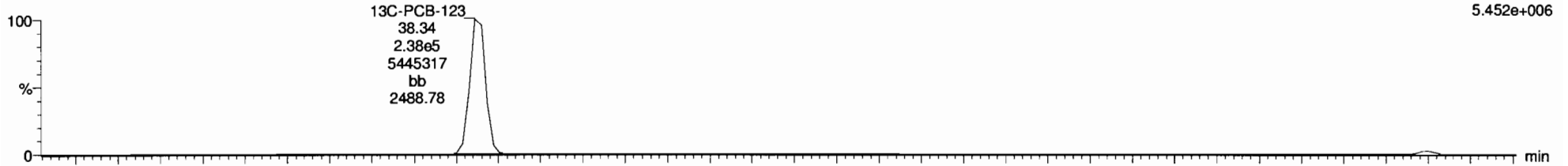
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

13C-PCB-123

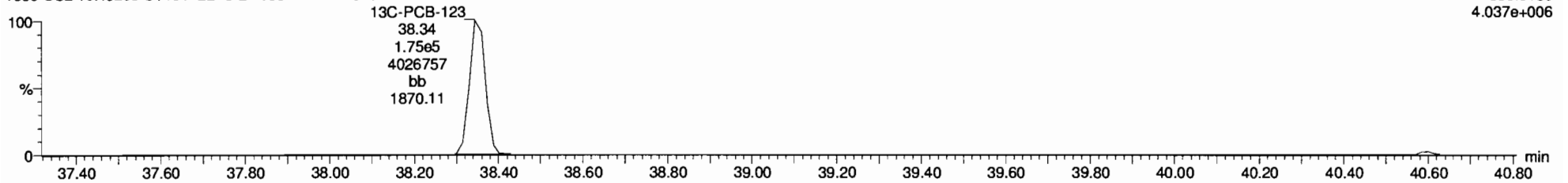
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F4:Voltage SIR,EI+
337.9210
5.452e+006



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

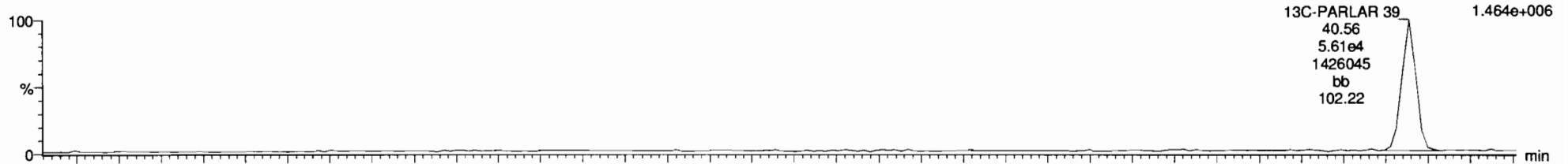
F4:Voltage SIR,EI+
339.9180
4.037e+006



13C-PARLAR 39

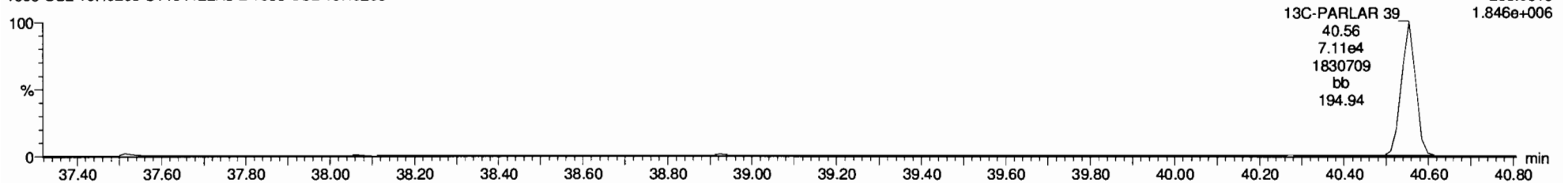
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

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

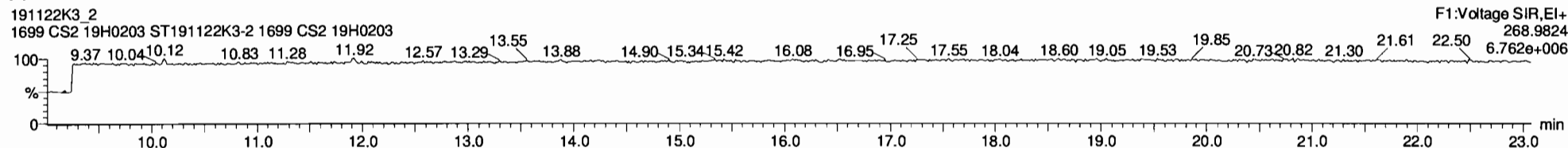


Dataset: Untitled

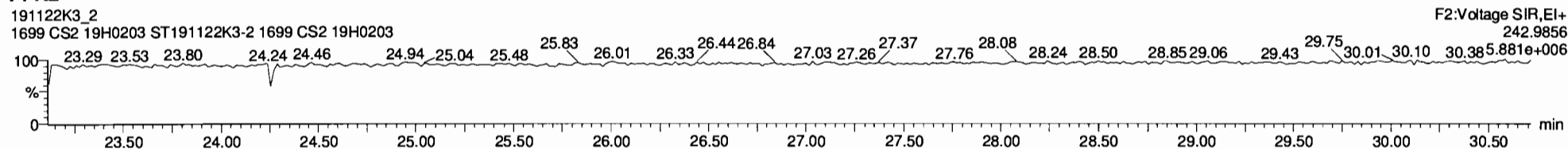
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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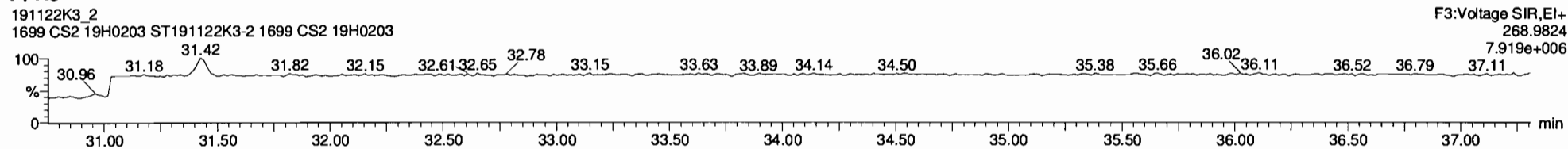
PFK1



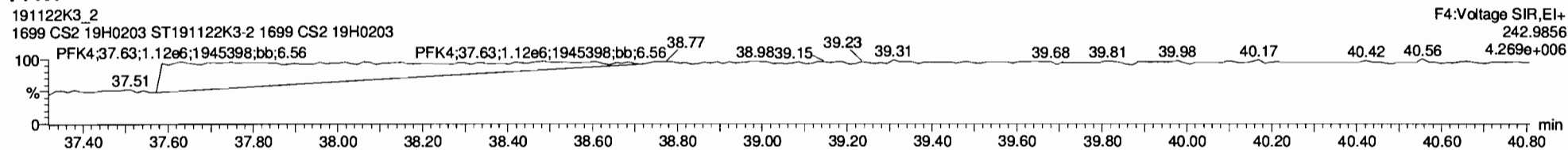
PFK2



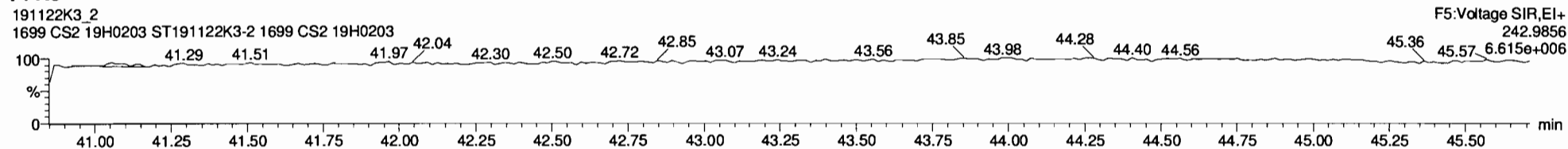
PFK3



PFK4



PFK5



Dataset: Untitled

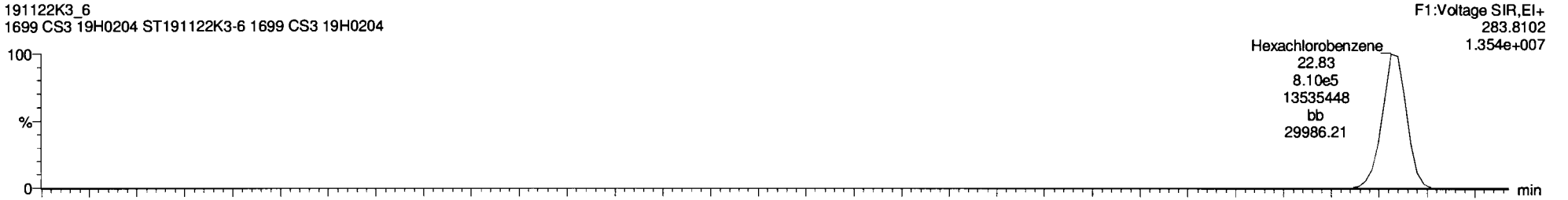
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

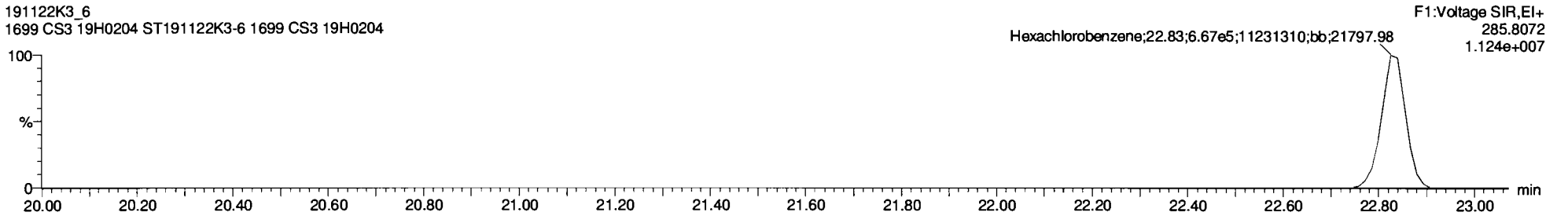
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Hexachlorobenzene

191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

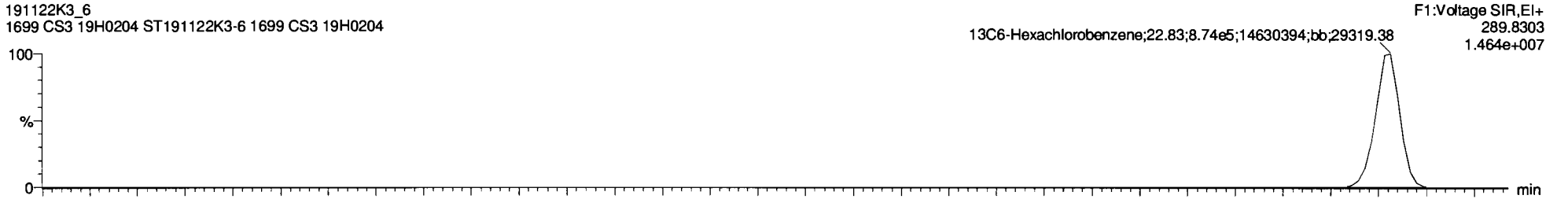


191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

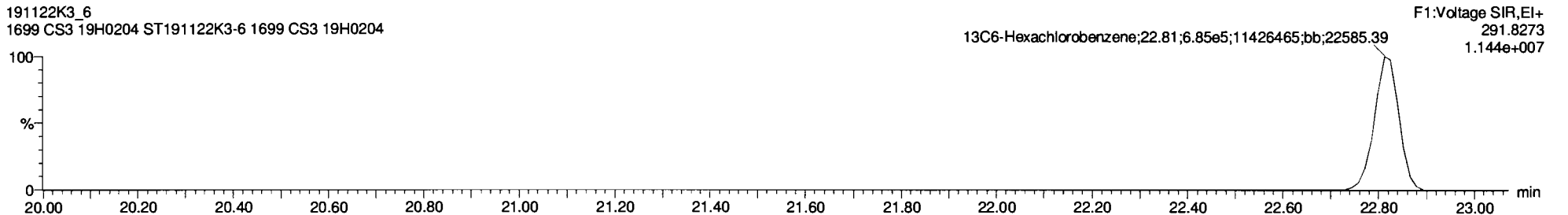


13C6-Hexachlorobenzene

191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

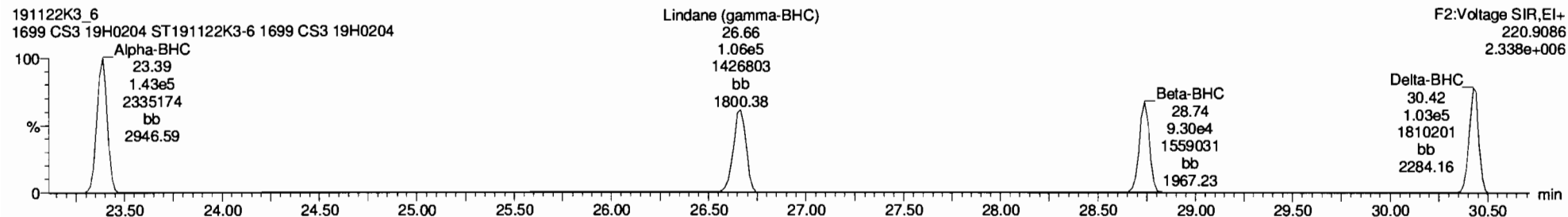
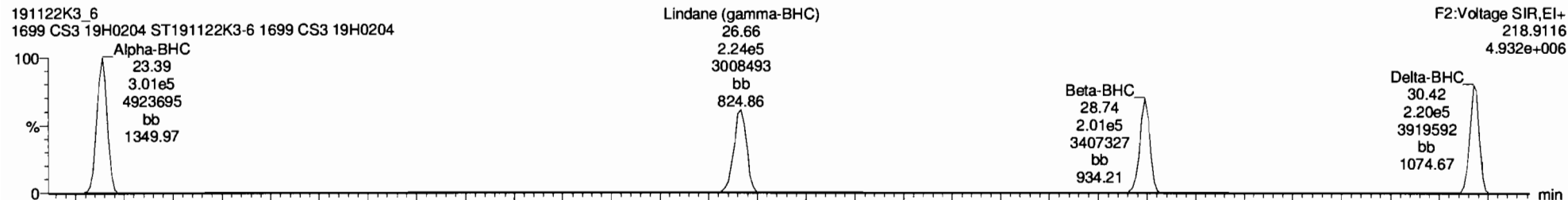


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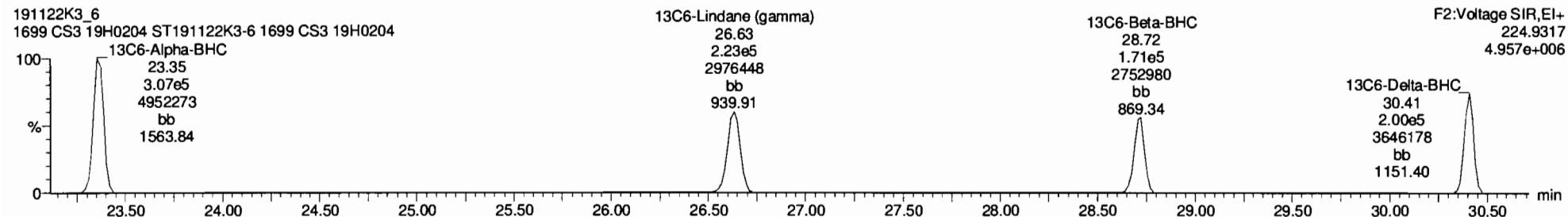
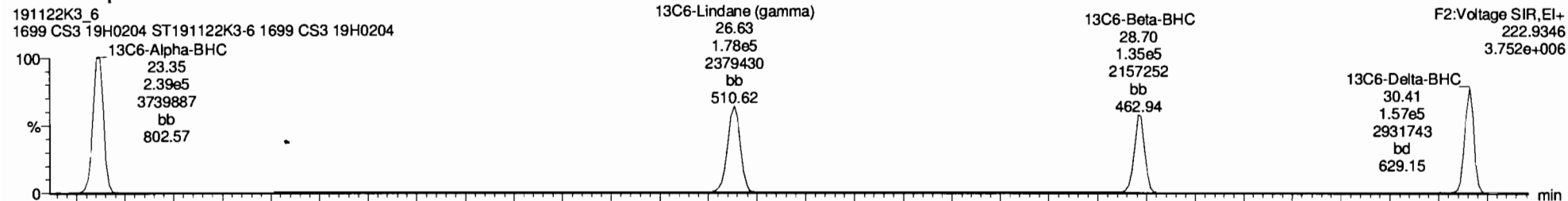
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

BHC Totals



BHC-isotopes



Dataset: Untitled

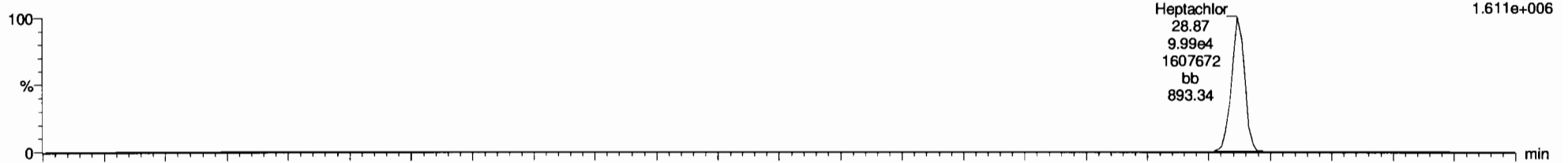
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Heptachlor

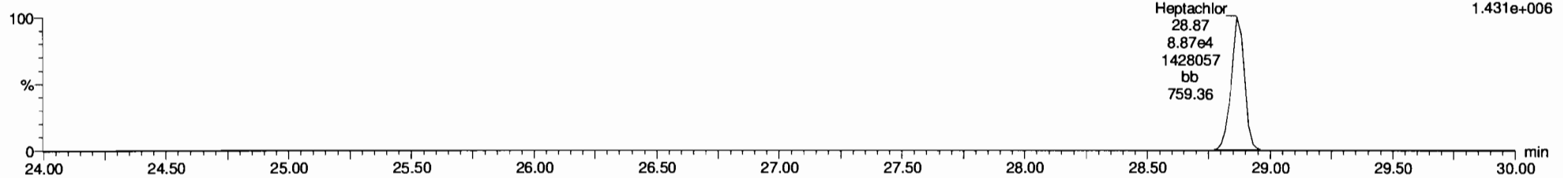
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F2:Voltage SIR,EI+
271.8102
1.611e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

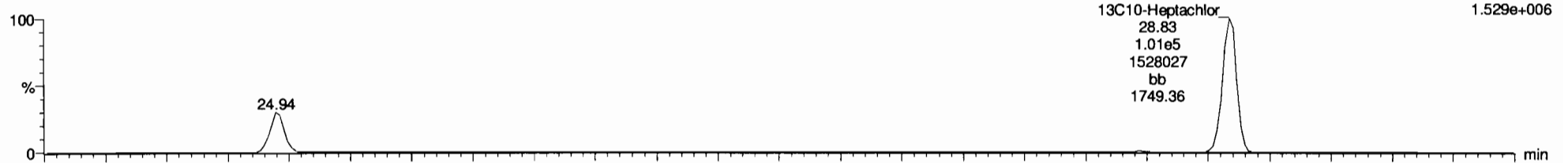
F2:Voltage SIR,EI+
273.8072
1.431e+006



13C10-Heptachlor

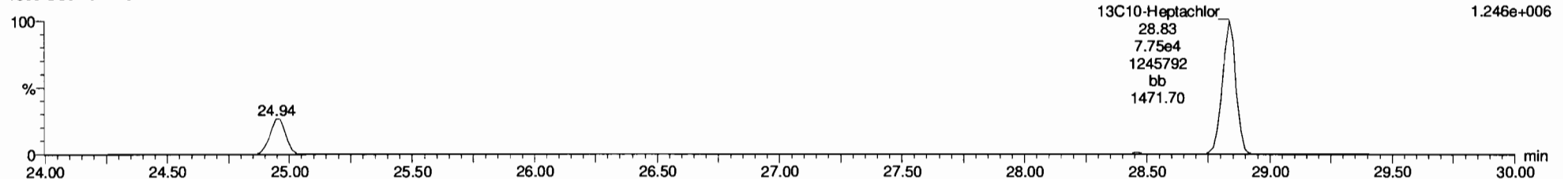
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

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

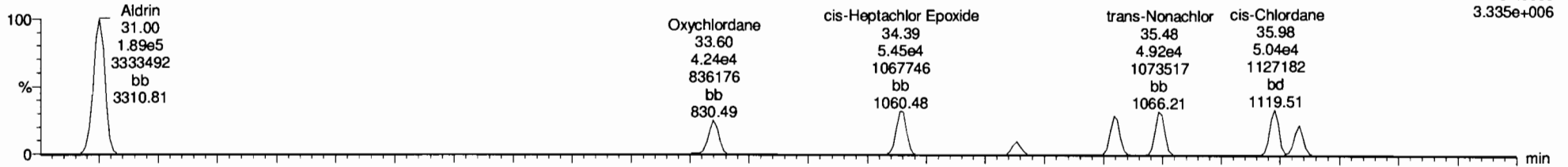
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Aldrin-EI

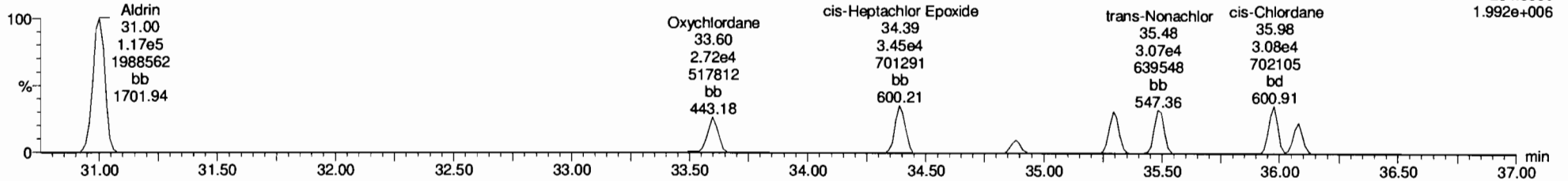
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F3:Voltage SIR,EI+
262.8569
3.335e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

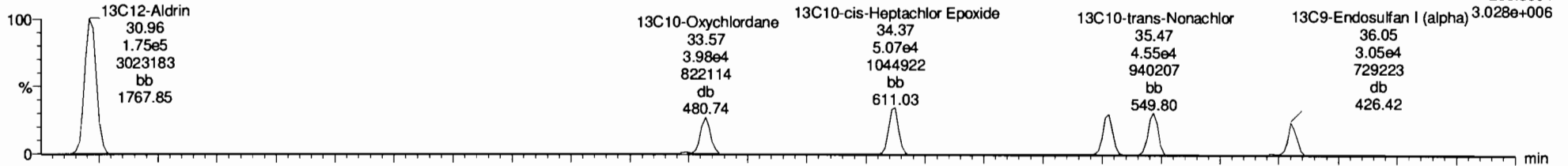
F3:Voltage SIR,EI+
264.8550
1.992e+006



Aldrin-EI-isotopes

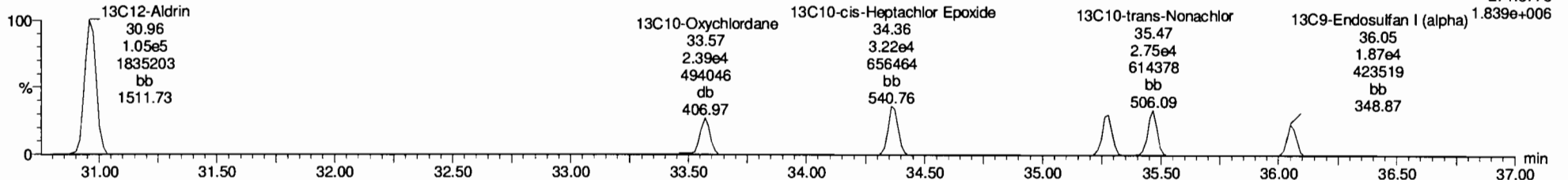
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

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

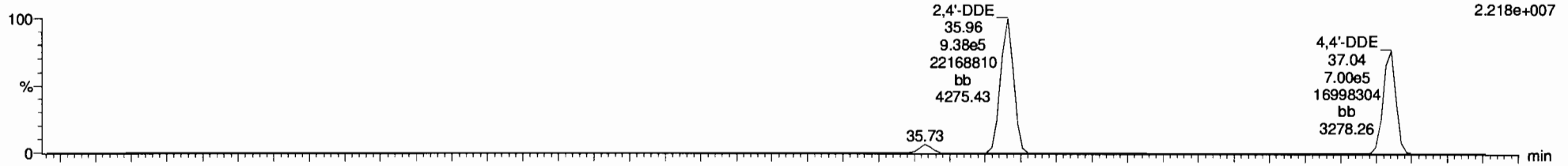
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

DDMU-DDE

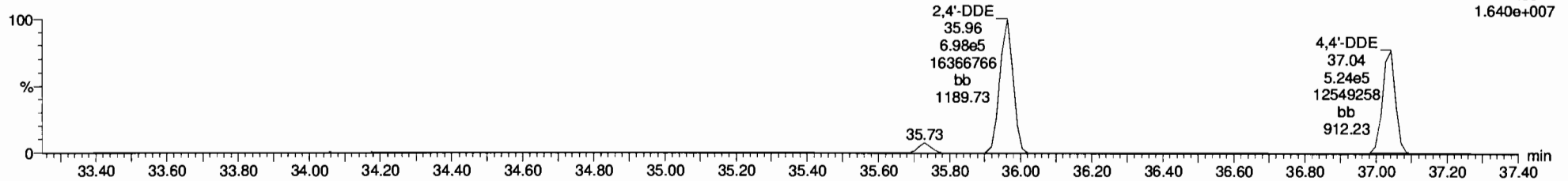
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F3:Voltage SIR,EI+
246.0003
2.218e+007



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

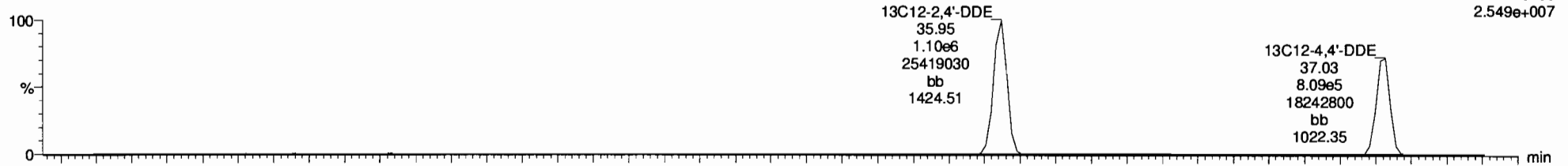
F3:Voltage SIR,EI+
247.9974
1.640e+007



DDE-isotopes

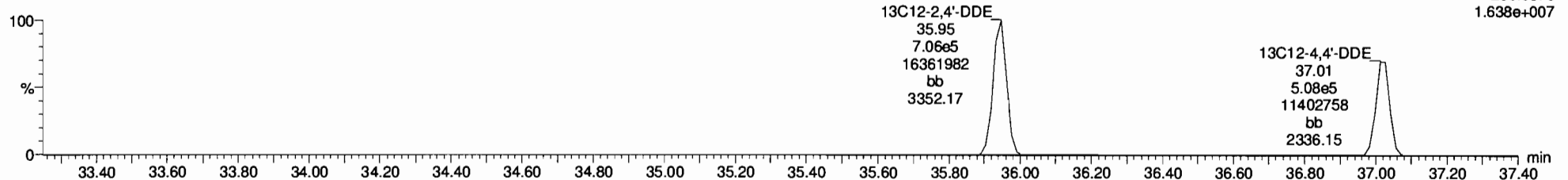
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

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

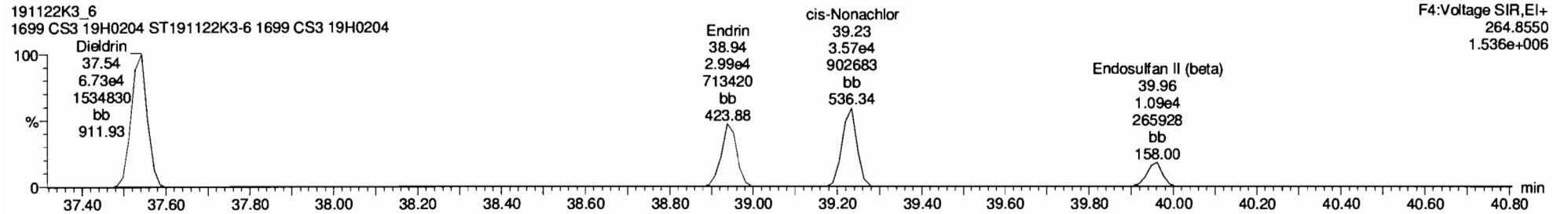
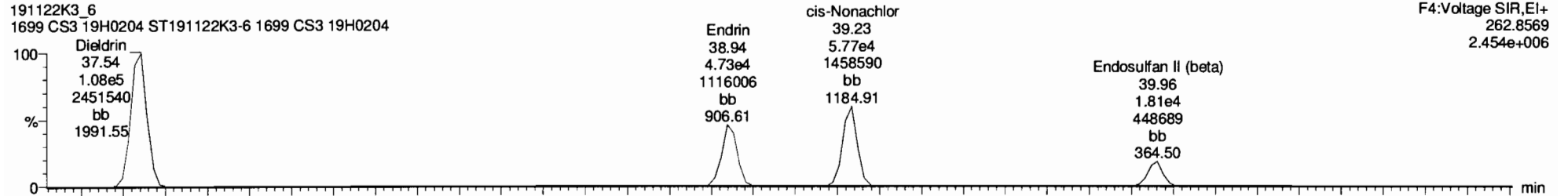


Dataset: Untitled

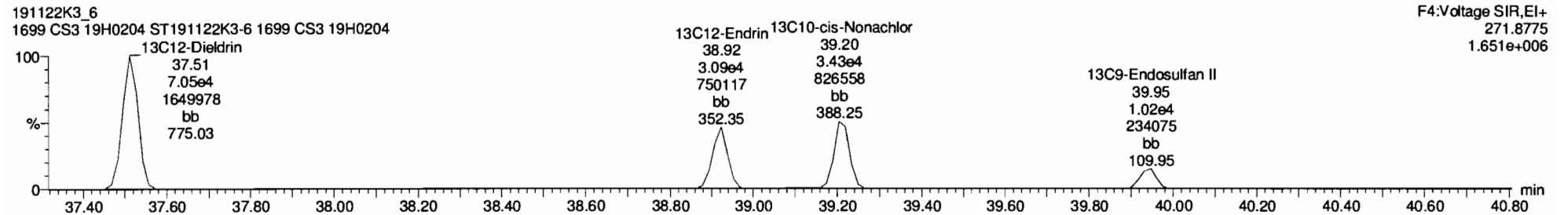
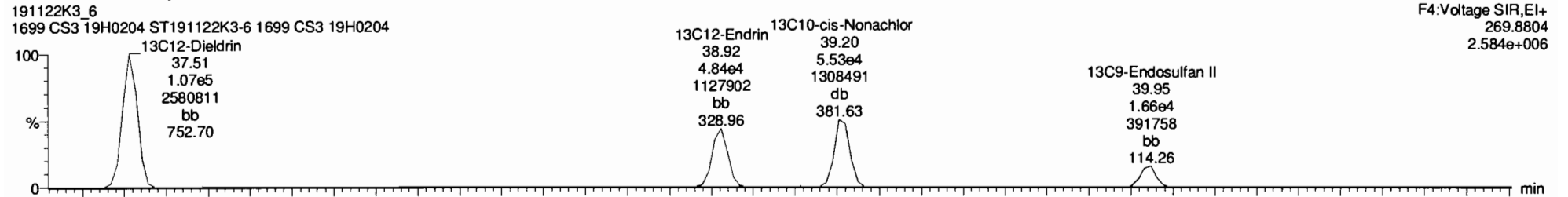
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Dieldrin-EII



Dieldrin-EII-isotopes



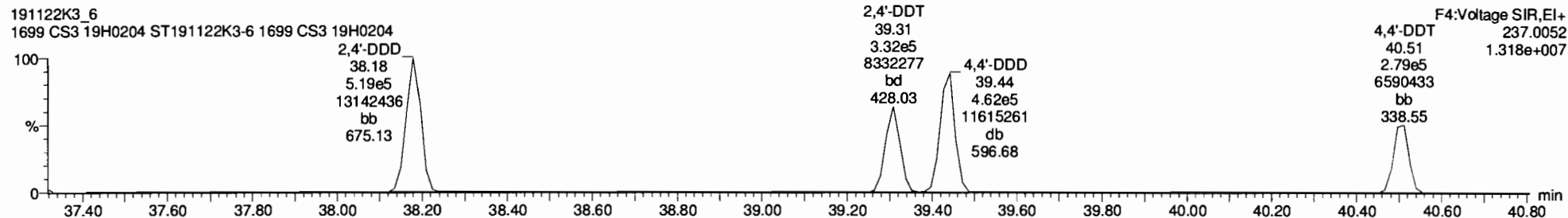
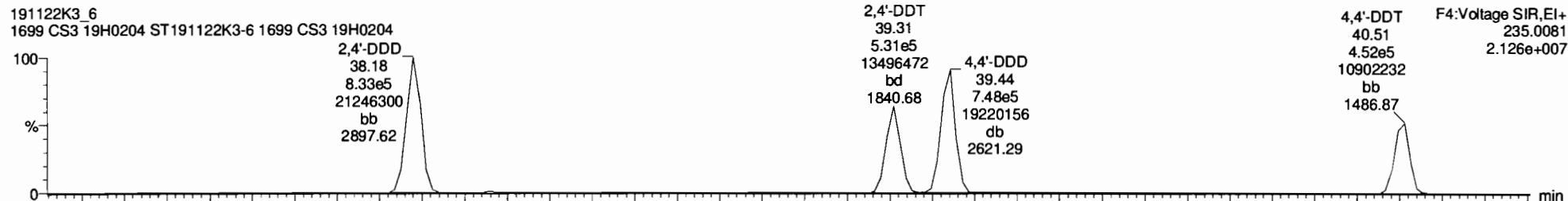
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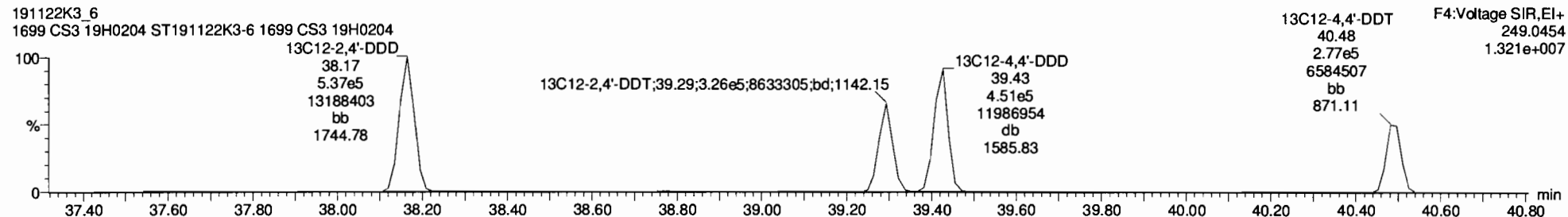
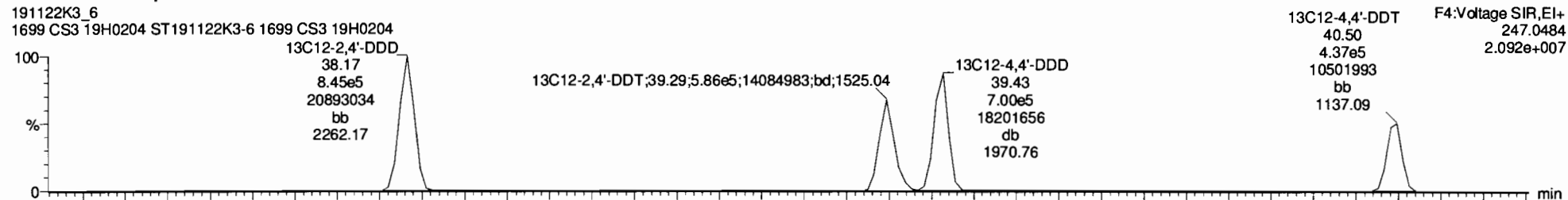
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Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

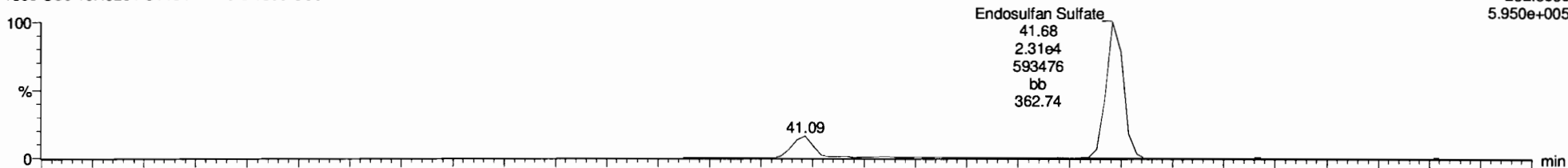
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Endosulfan Sulfate

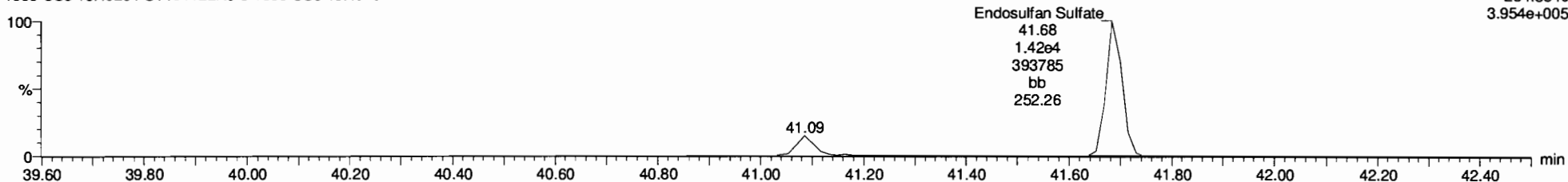
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F5:Voltage SIR,EI+
262.8569
5.950e+005



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

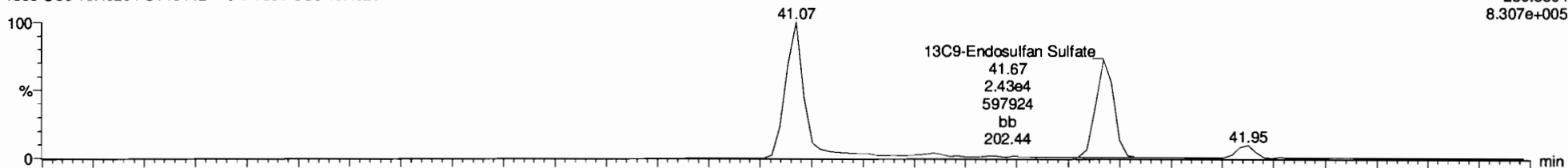
F5:Voltage SIR,EI+
264.8540
3.954e+005



13C9-Endosulfan Sulfate

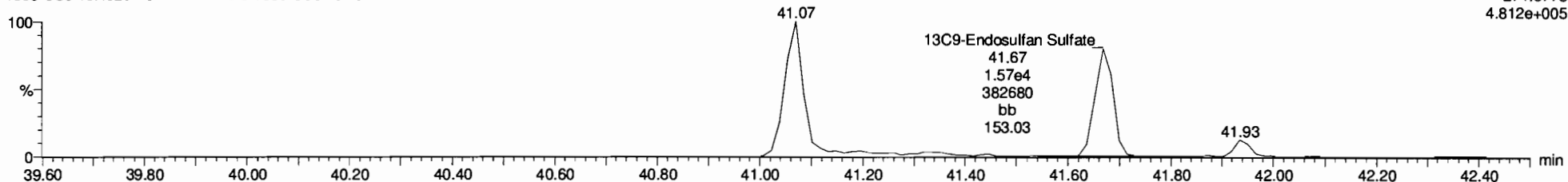
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

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

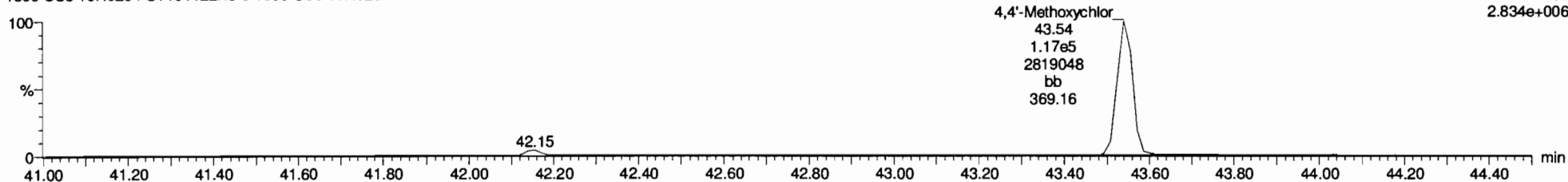
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F5:Voltage SIR, EI+
227.1072
1.707e+007



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

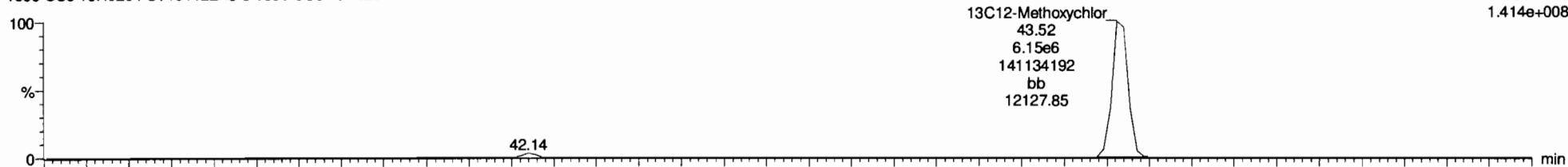
F5:Voltage SIR, EI+
228.1106
2.834e+006



13C12-Methoxychlor

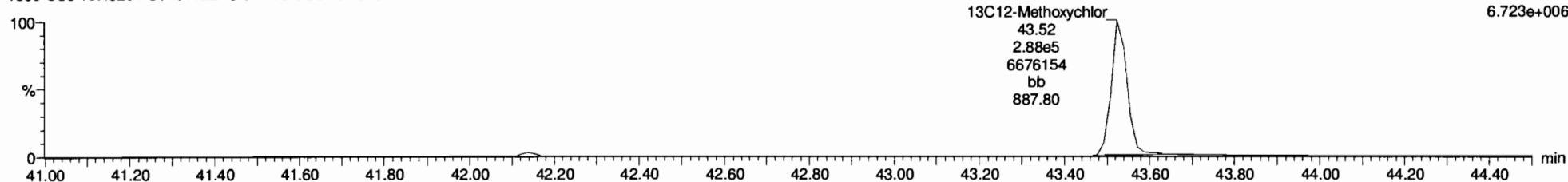
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

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

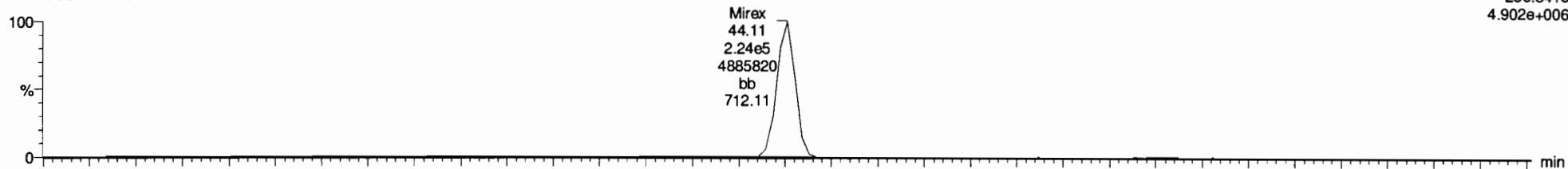
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Mirex

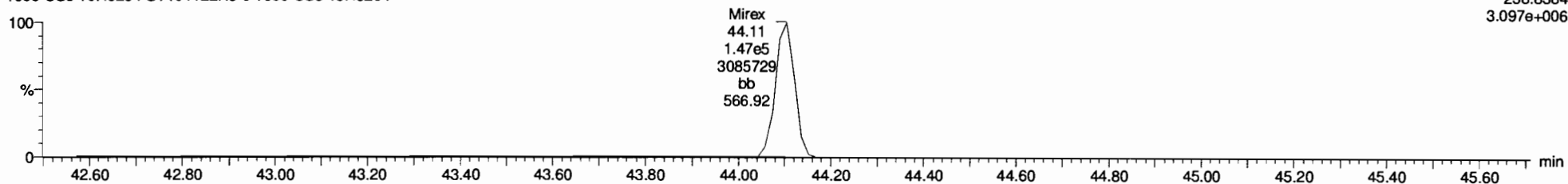
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F5:Voltage SIR,EI+
236.8413
4.902e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

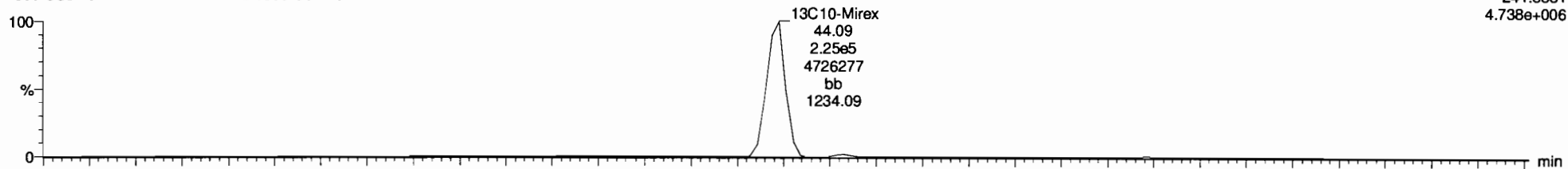
F5:Voltage SIR,EI+
238.8384
3.097e+006



13C10-Mirex

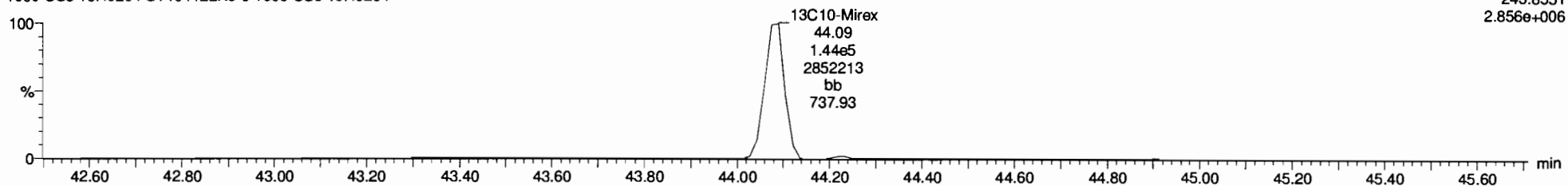
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

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



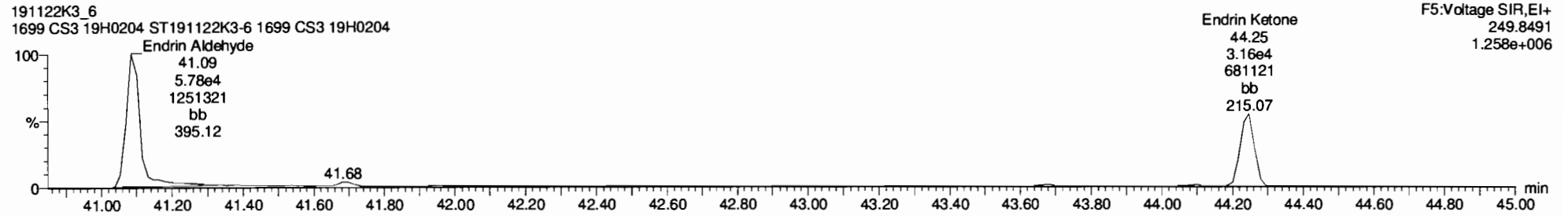
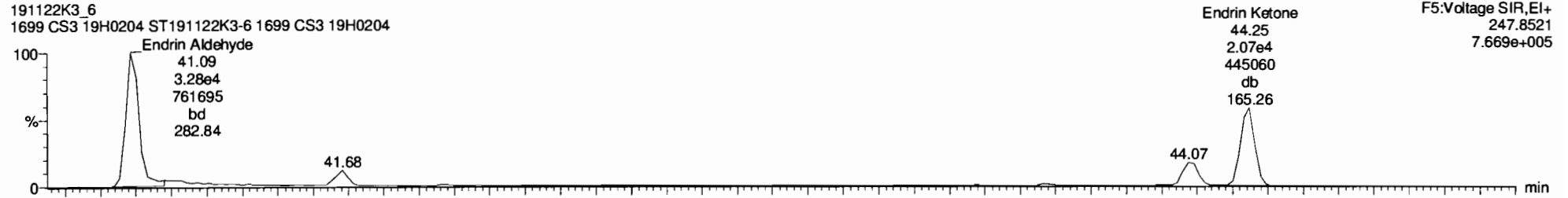
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

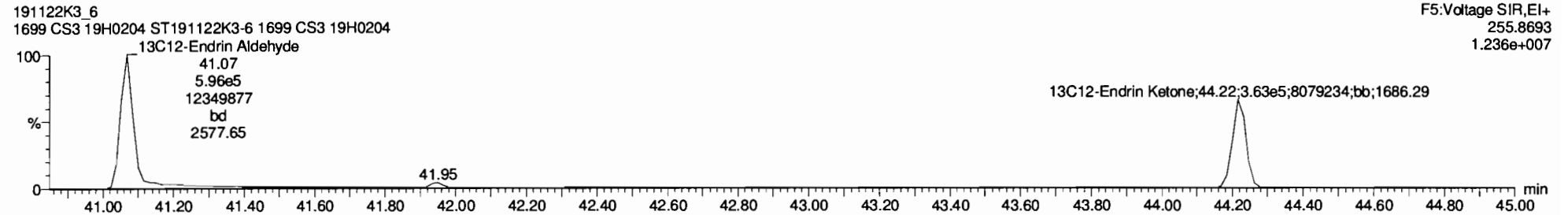
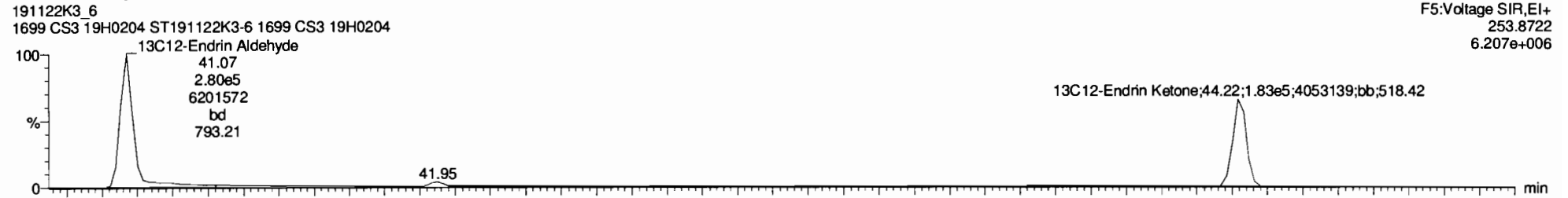
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

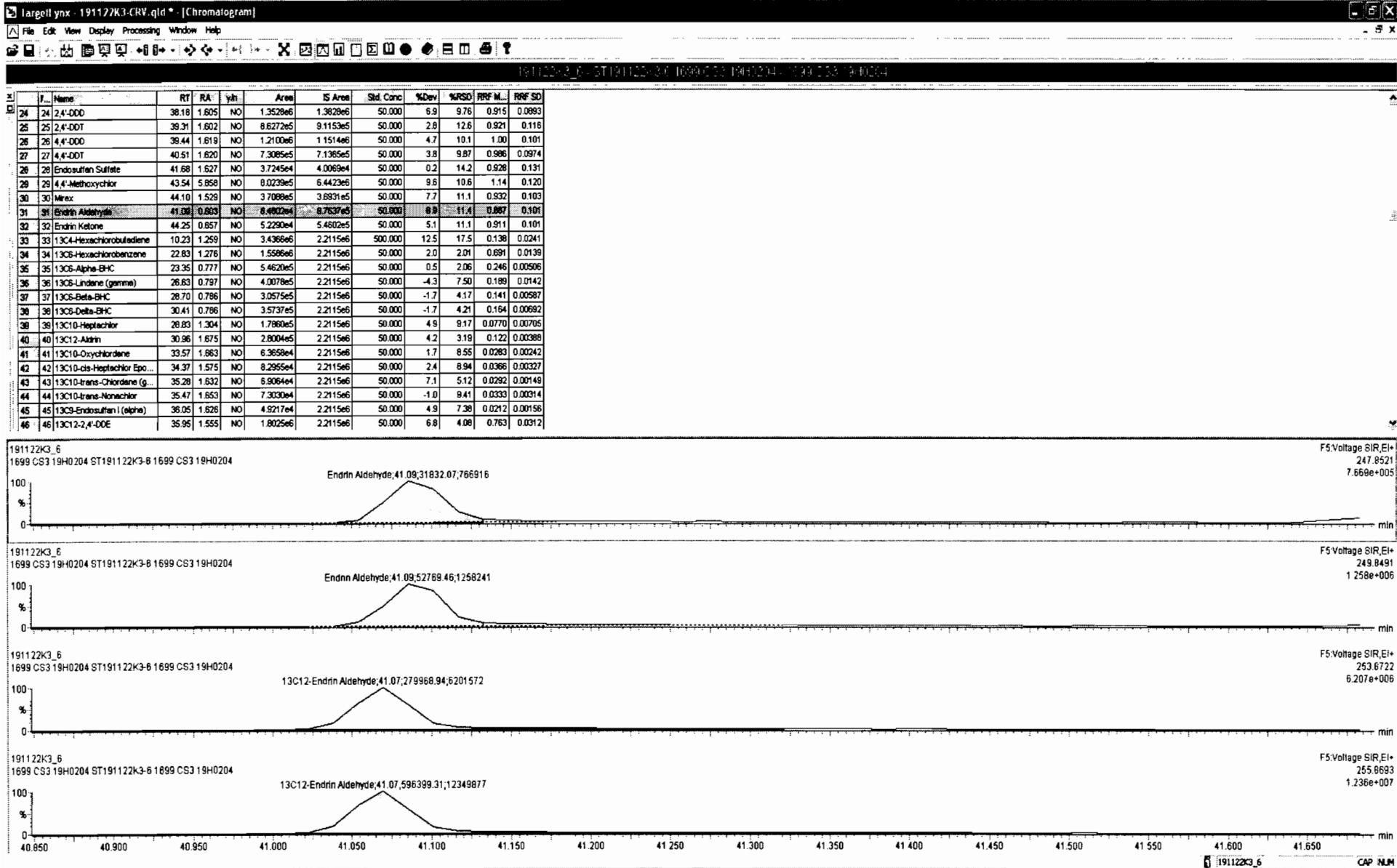
Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

EA-EK



EA-EK-isotopes





Dataset: Untitled

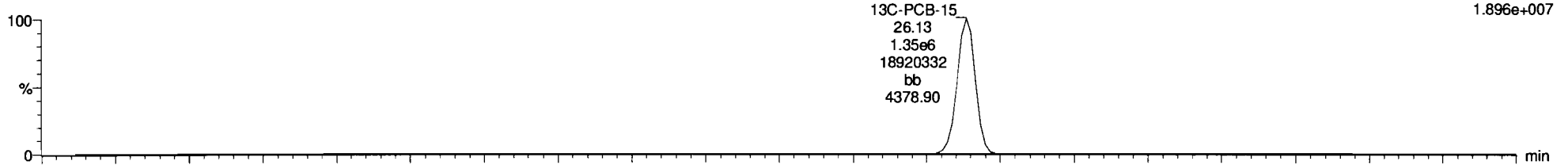
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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13C-PCB-15

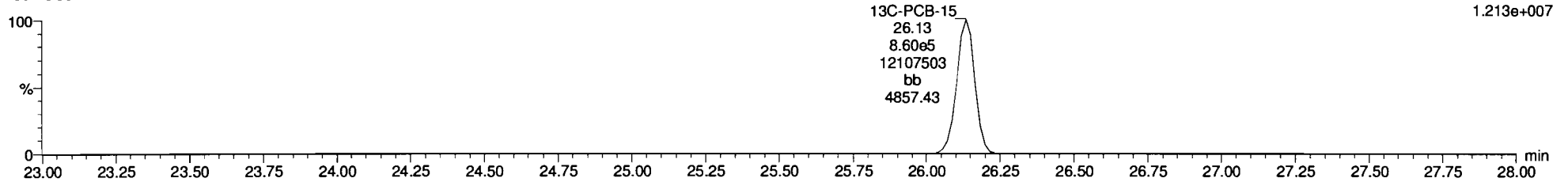
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F2:Voltage SIR,EI+
234.0406
1.896e+007



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

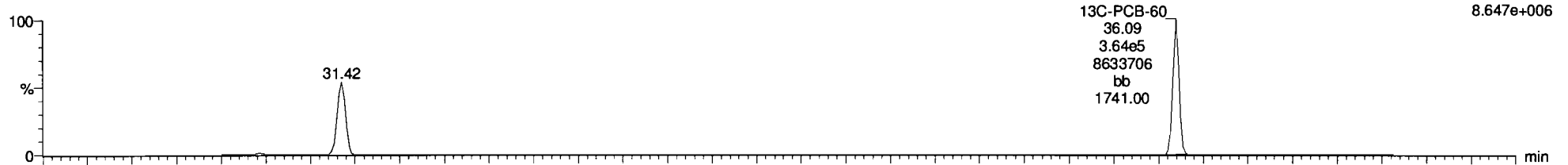
F2:Voltage SIR,EI+
236.0376
1.213e+007



13C-PCB-60

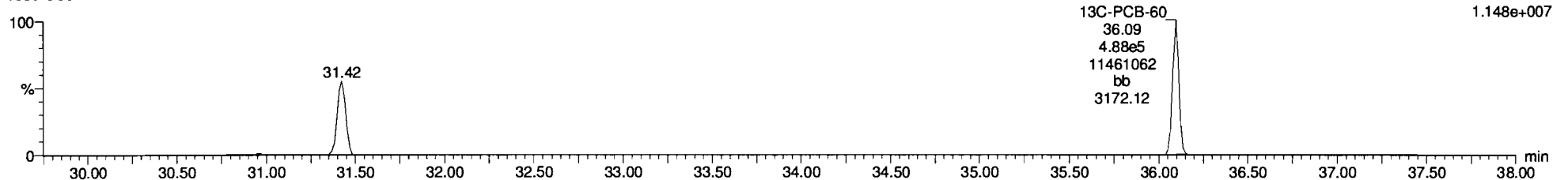
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

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

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

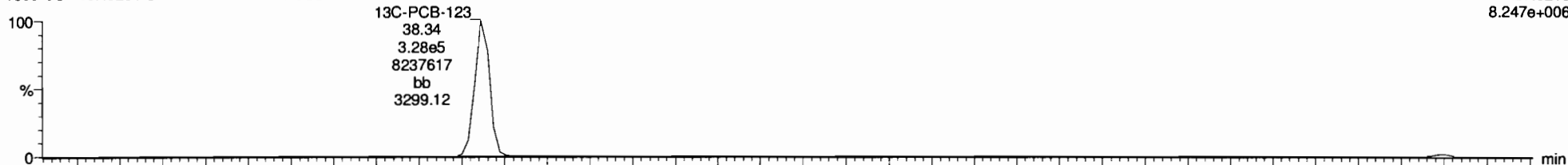
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13C-PCB-123

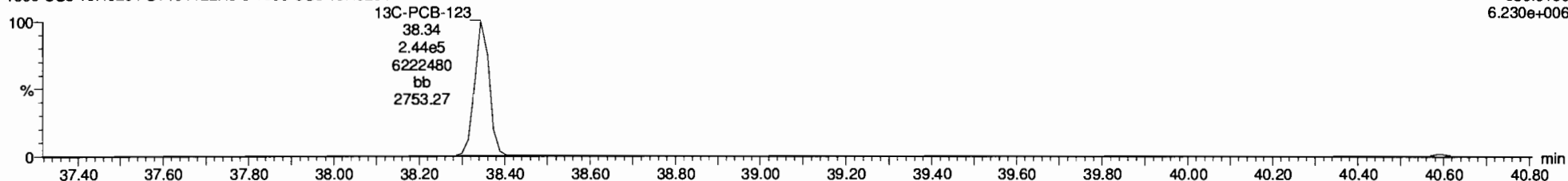
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F4:Voltage SIR,EI+
337.9210
8.247e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

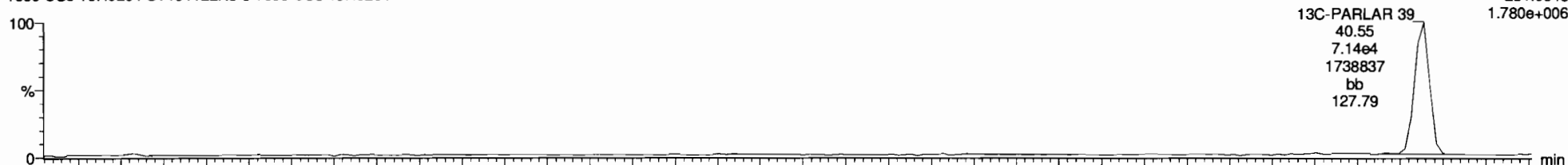
F4:Voltage SIR,EI+
339.9180
6.230e+006



13C-PARLAR 39

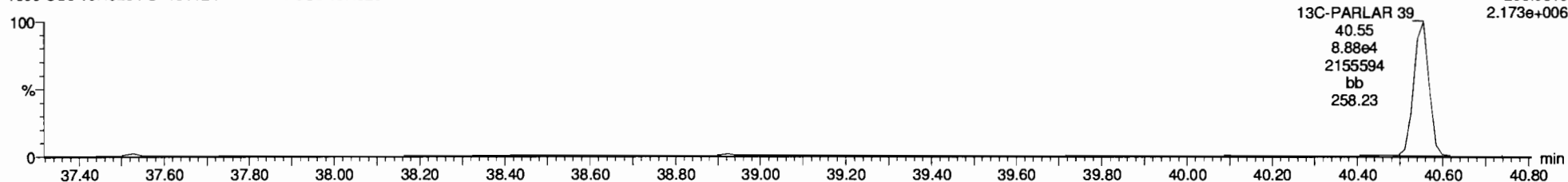
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

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



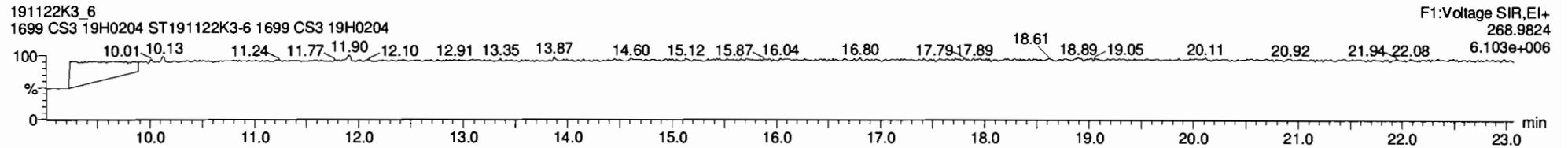
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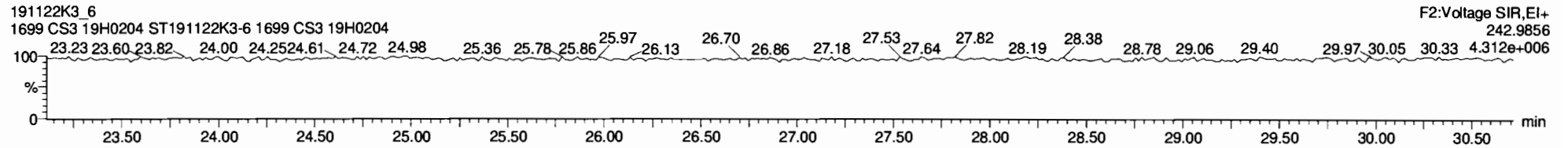
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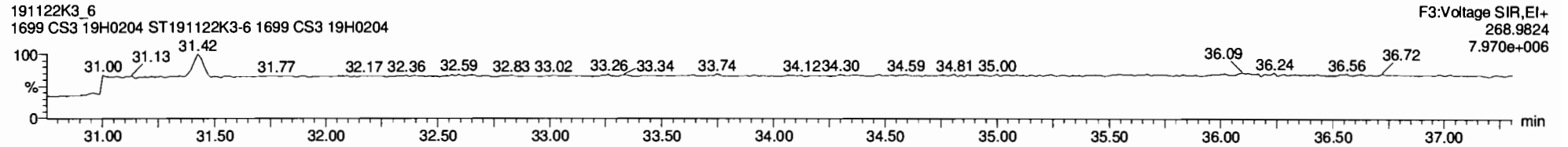
PFK1



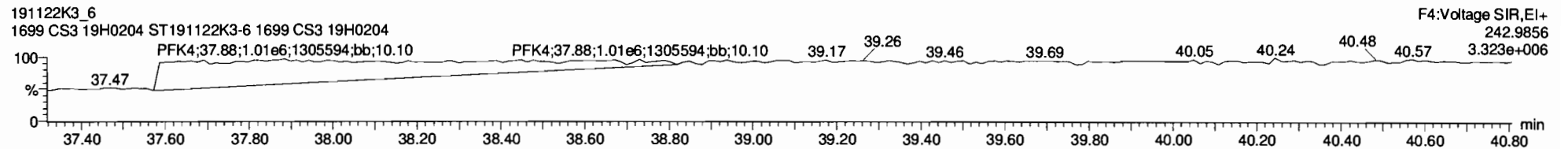
PFK2



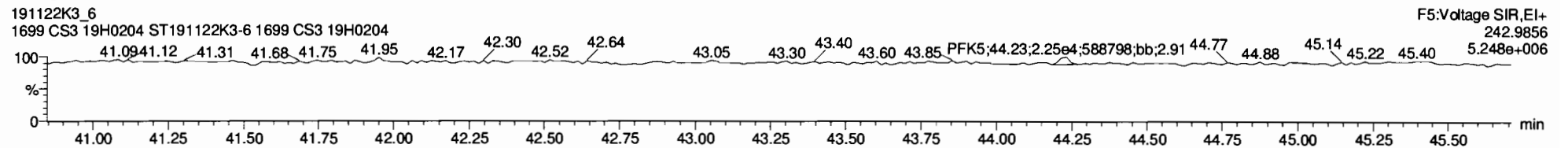
PFK3



PFK4



PFK5



Dataset: Untitled

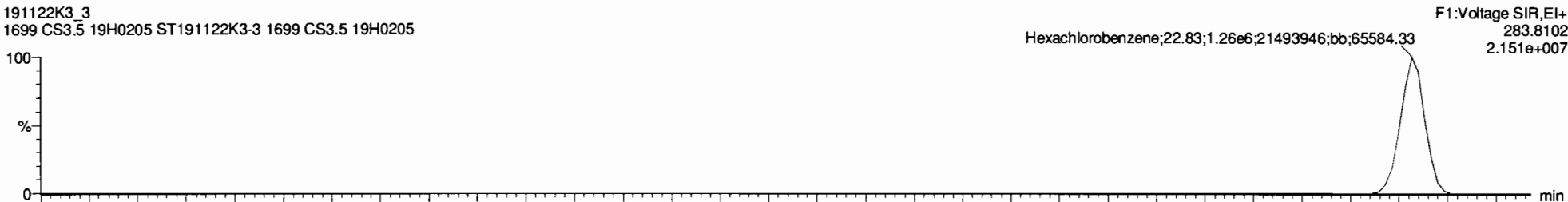
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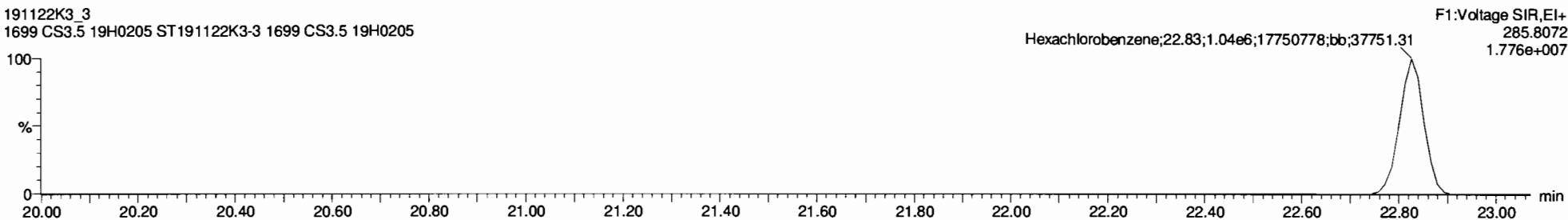
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Hexachlorobenzene

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

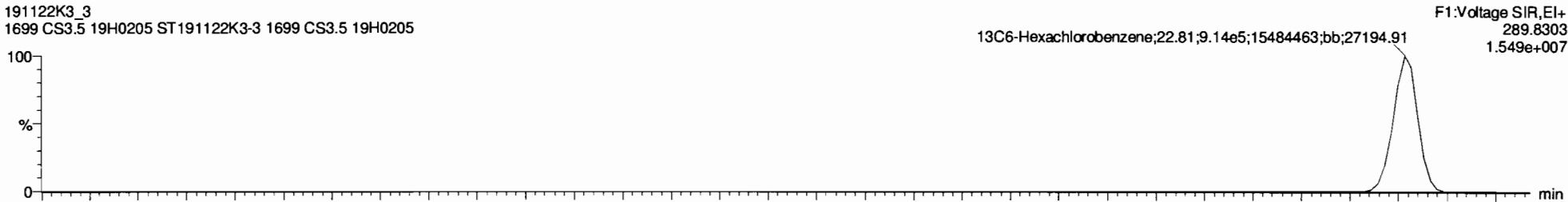


191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

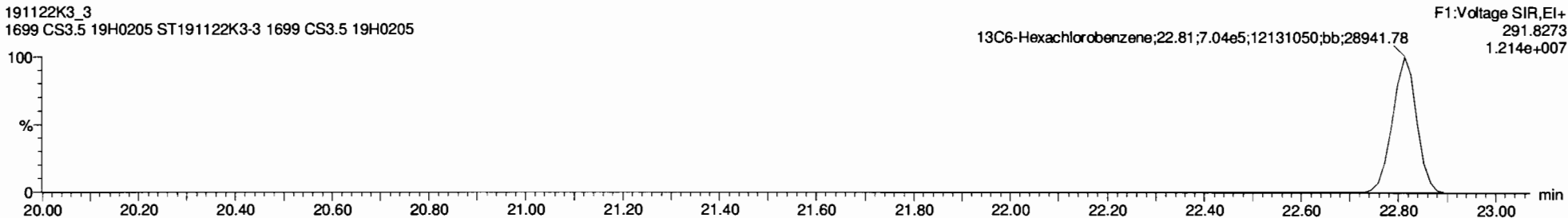


13C6-Hexachlorobenzene

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



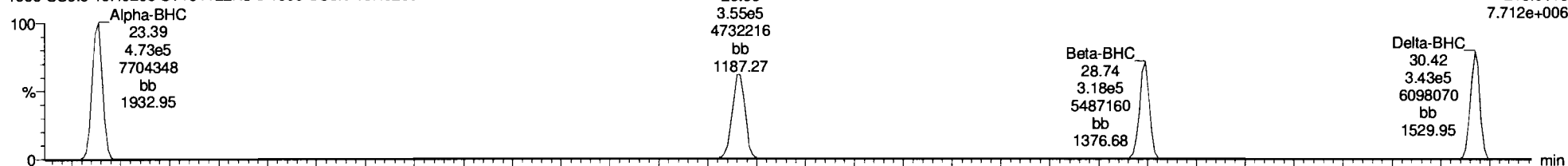
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

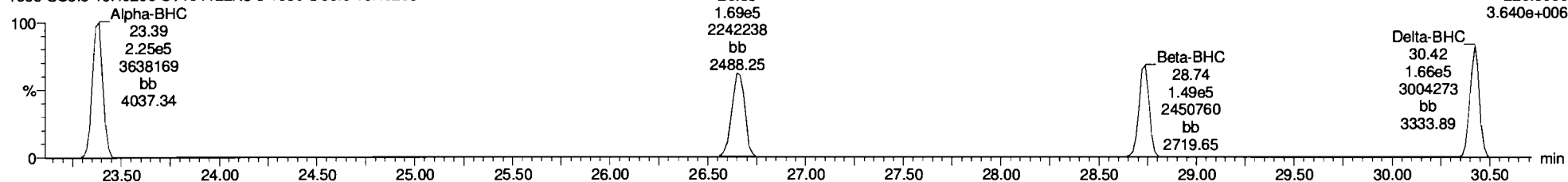
Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

BHC Totals

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

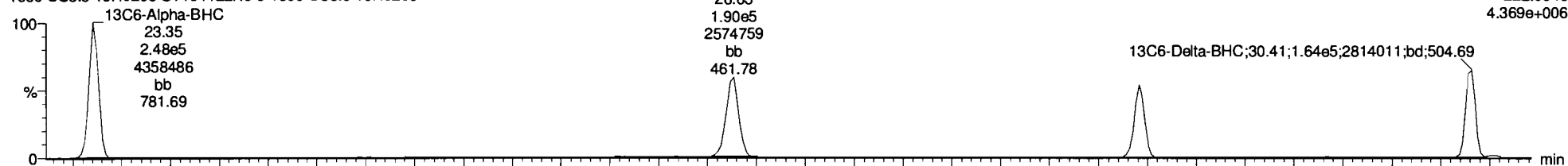


191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

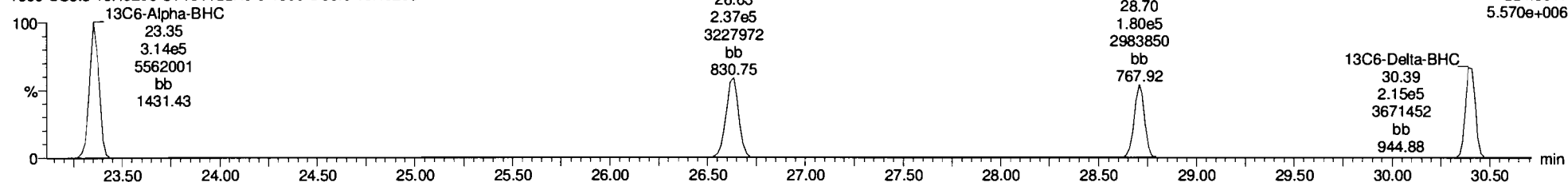


BHC-isotopes

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

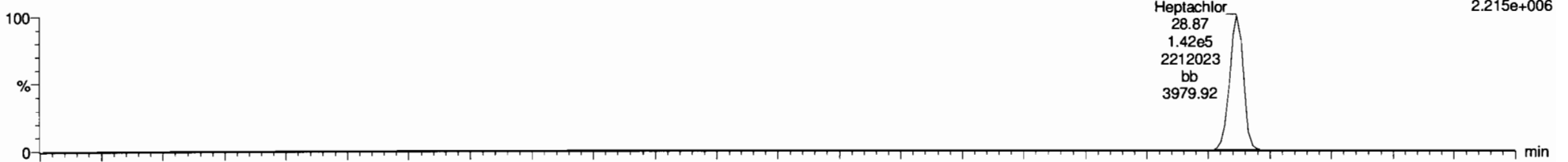
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

Heptachlor

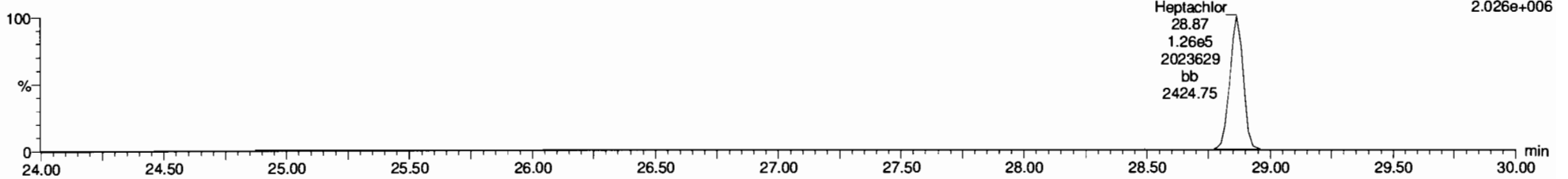
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F2:Voltage SIR,EI+
271.8102
2.215e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

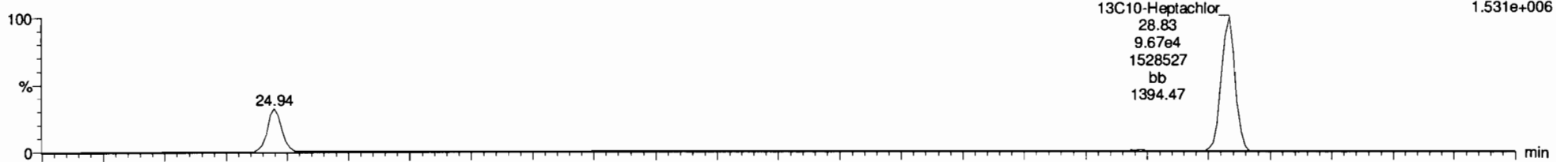
F2:Voltage SIR,EI+
273.8072
2.026e+006



13C10-Heptachlor

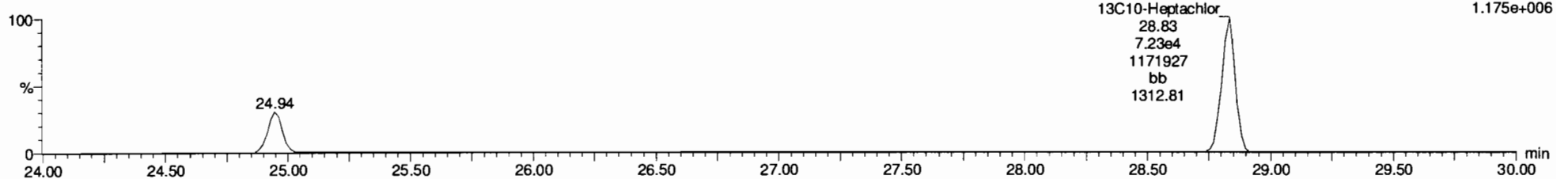
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

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

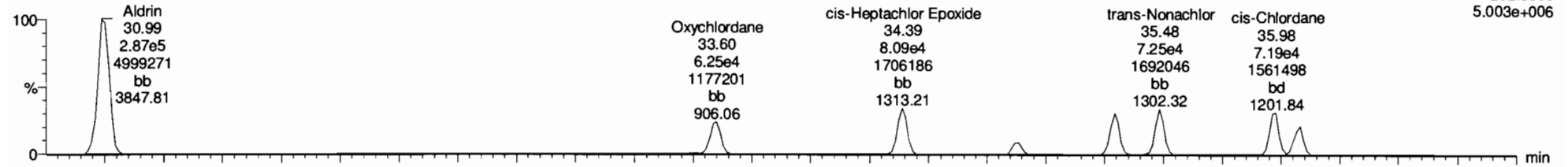
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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

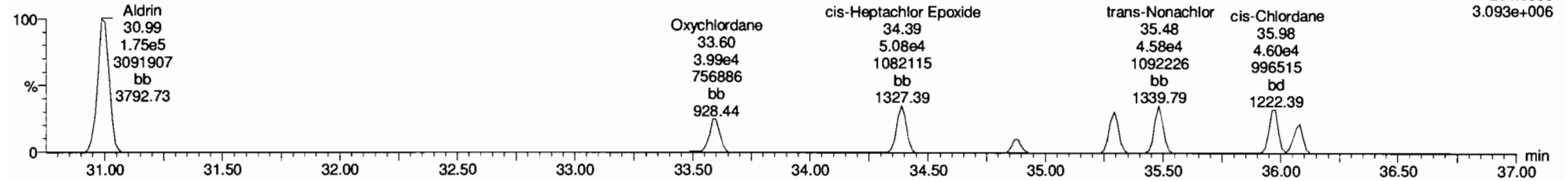
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F3:Voltage SIR,EI+
262.8569
5.003e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

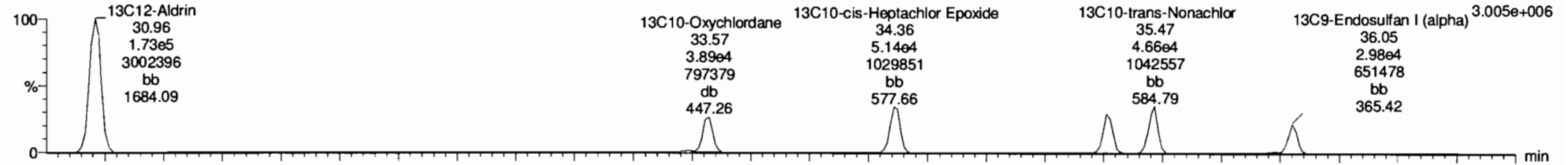
F3:Voltage SIR,EI+
264.8550
3.093e+006



Aldrin-EI-isotopes

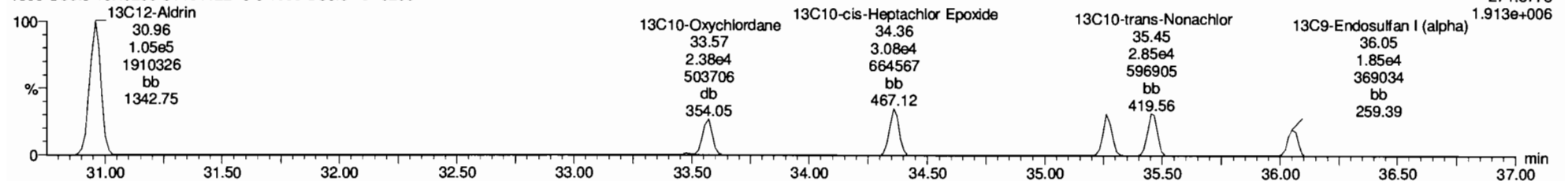
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

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

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DDMU-DDE

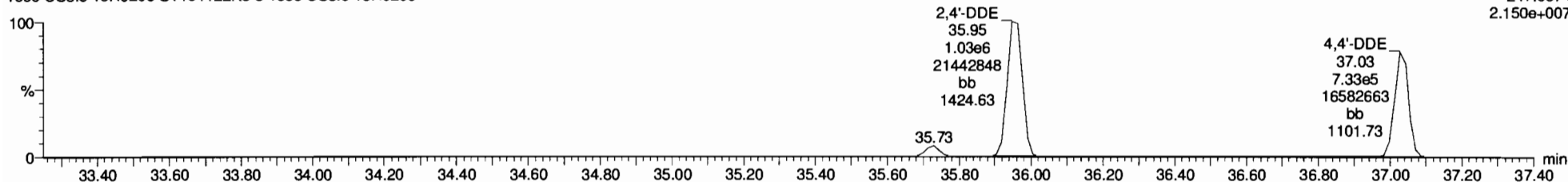
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F3:Voltage SIR,El+
246.0003
2.869e+007



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

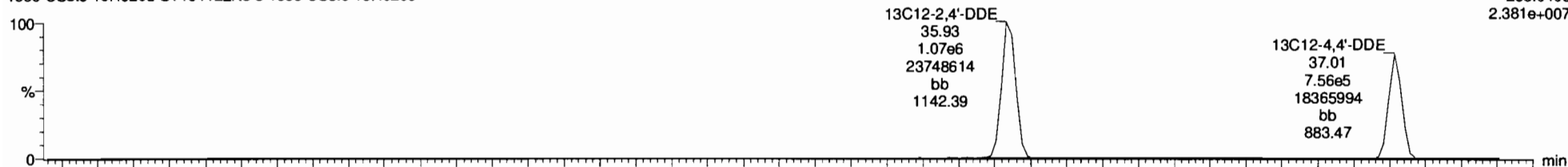
F3:Voltage SIR,El+
247.9974
2.150e+007



DDE-isotopes

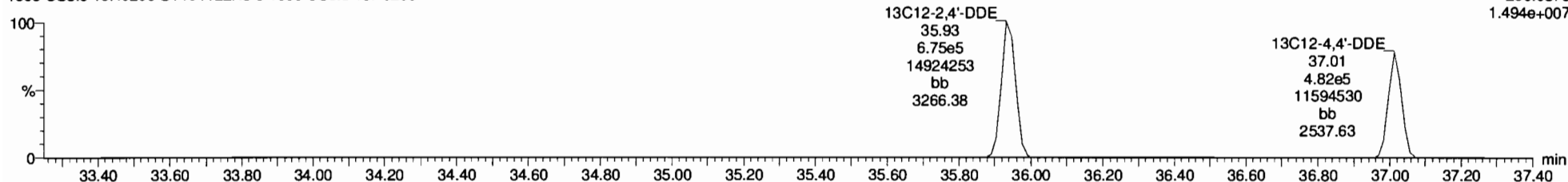
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

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



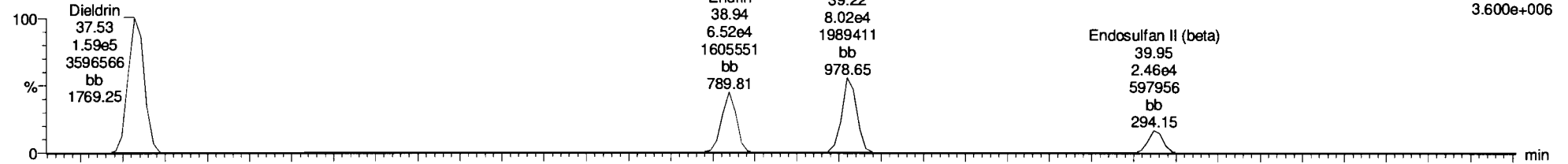
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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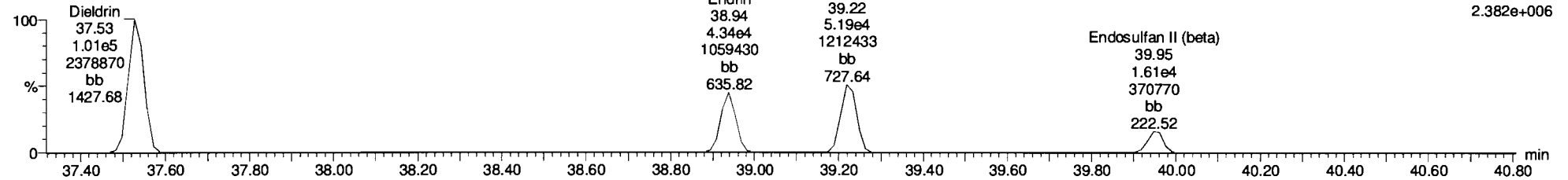
Dieldrin-EII

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



F4:Voltage SIR,EI+
262.8569
3.600e+006

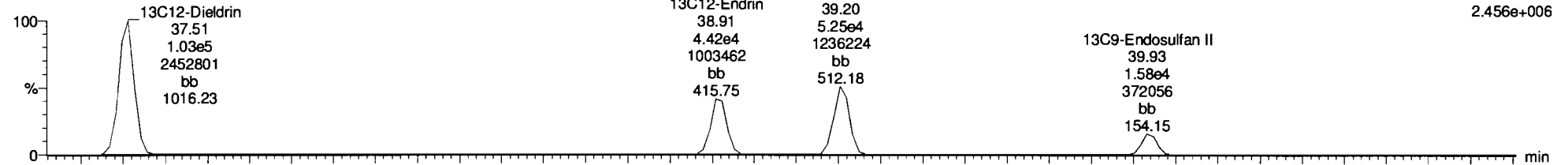
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



F4:Voltage SIR,EI+
264.8550
2.382e+006

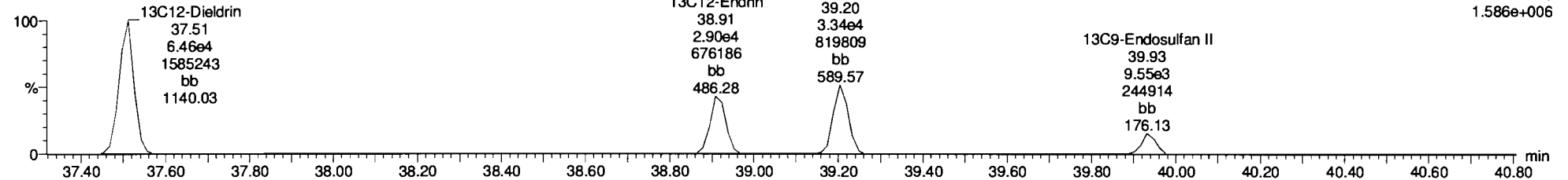
Dieldrin-EII-isotopes

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



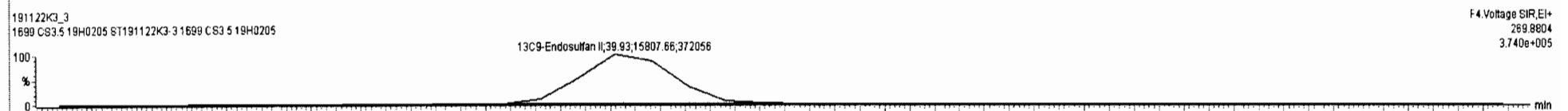
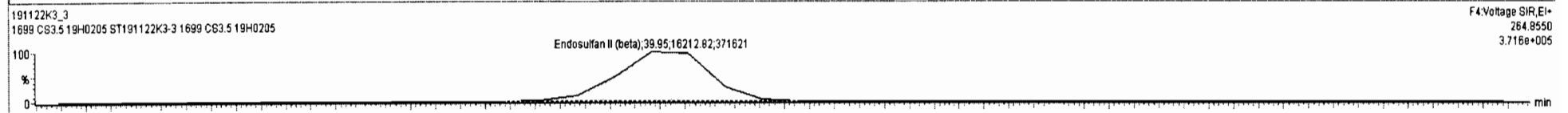
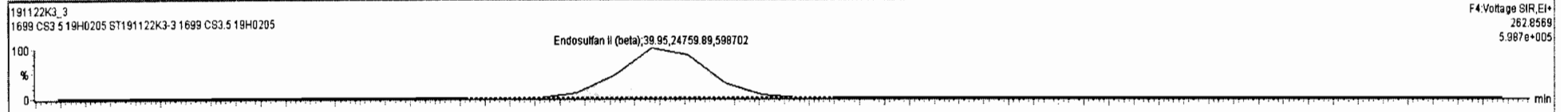
F4:Voltage SIR,EI+
269.8804
2.456e+006

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

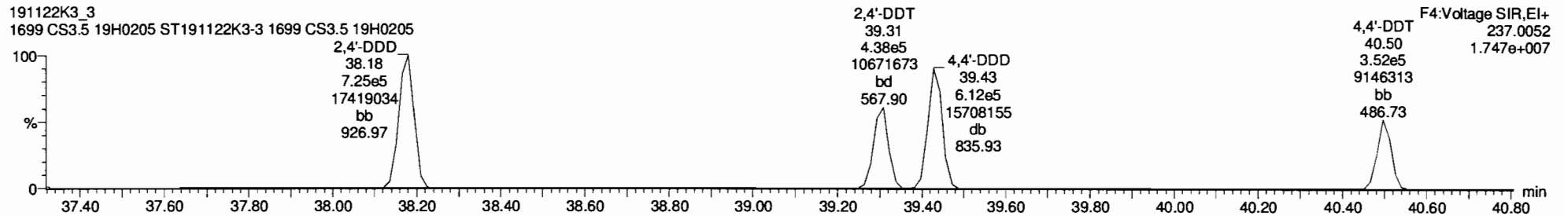
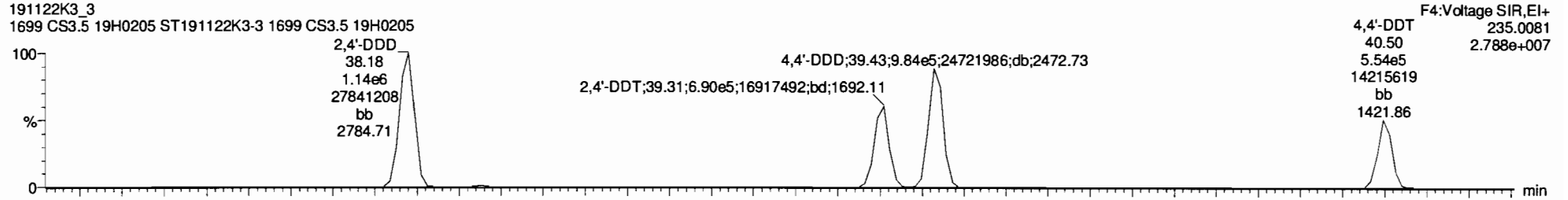


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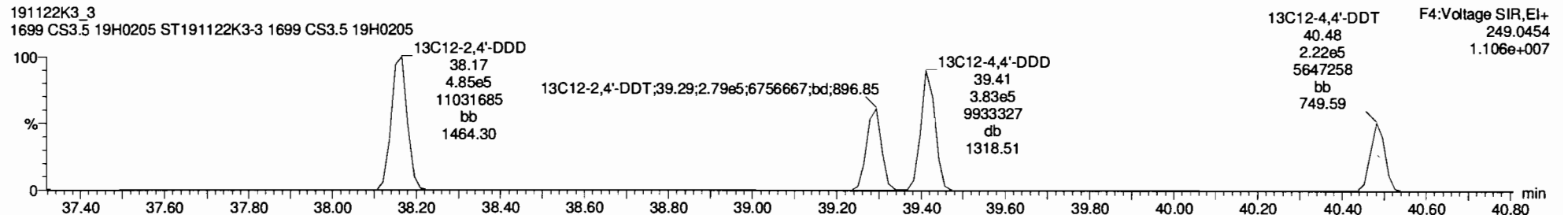
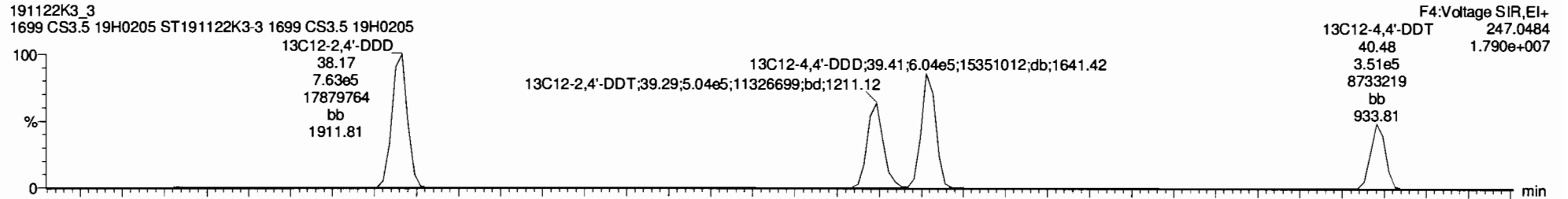
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

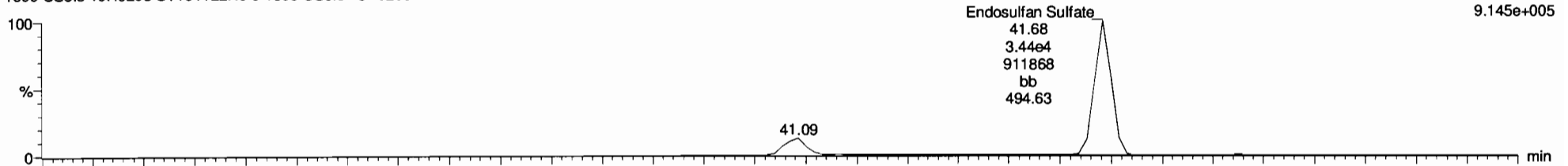
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

Endosulfan Sulfate

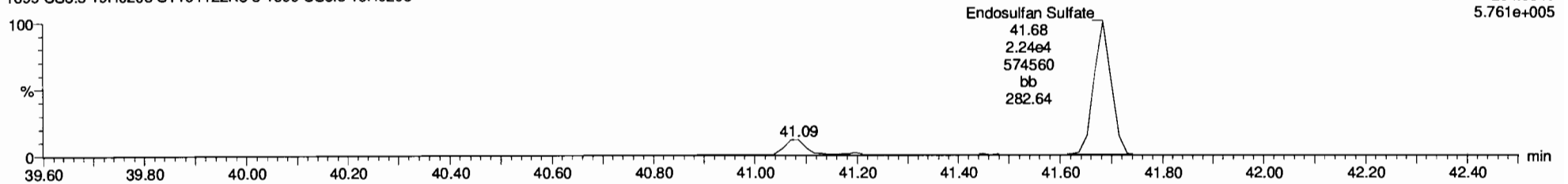
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F5:Voltage SIR,EI+
262.8569
9.145e+005



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

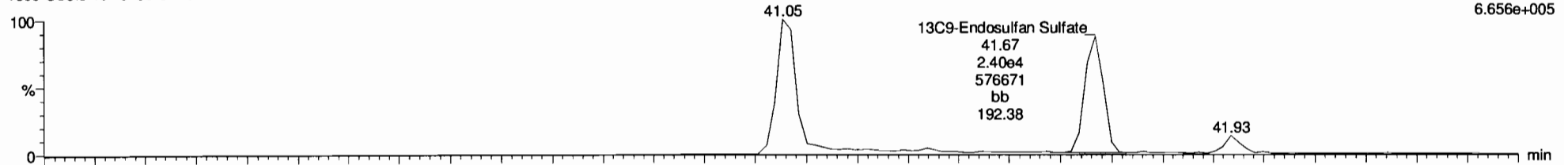
F5:Voltage SIR,EI+
264.8540
5.761e+005



13C9-Endosulfan Sulfate

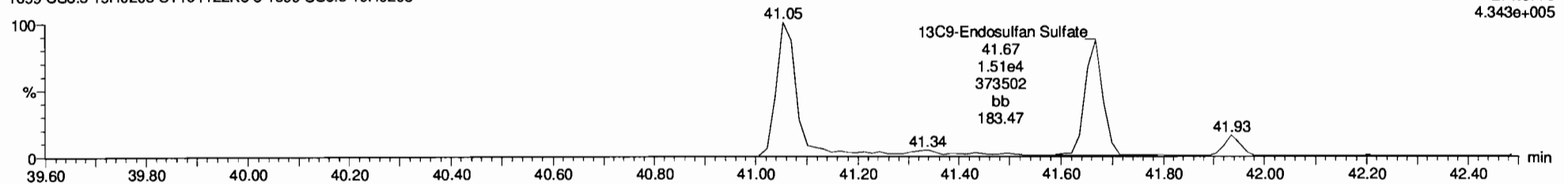
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

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

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

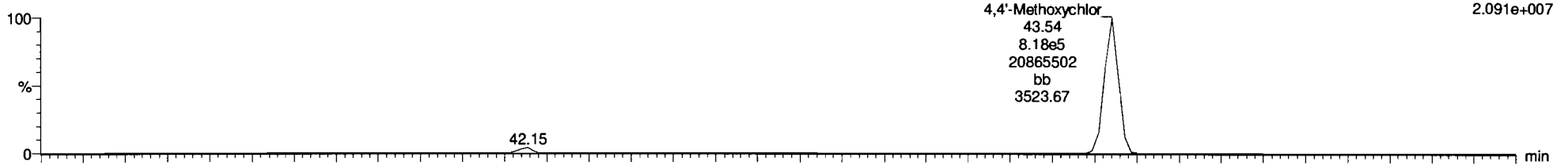
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Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

4,4'-Methoxychlor

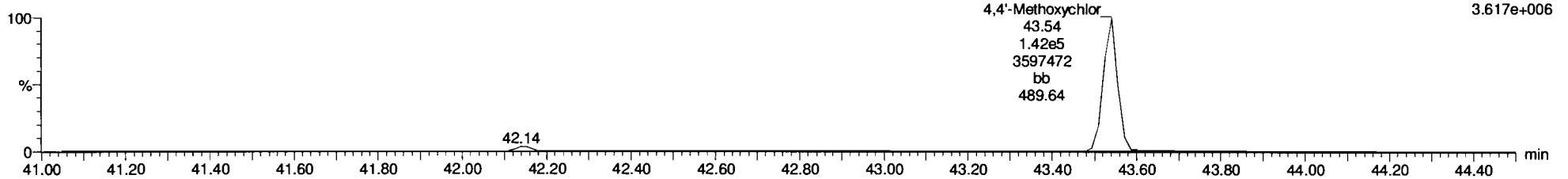
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F5:Voltage SIR,EI+
227.1072
2.091e+007



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

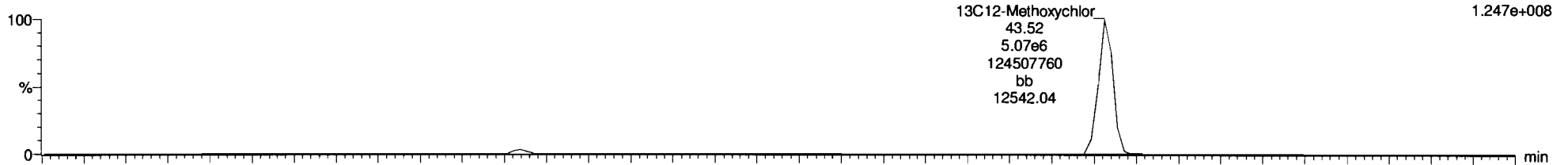
F5:Voltage SIR,EI+
228.1106
3.617e+006



13C12-Methoxychlor

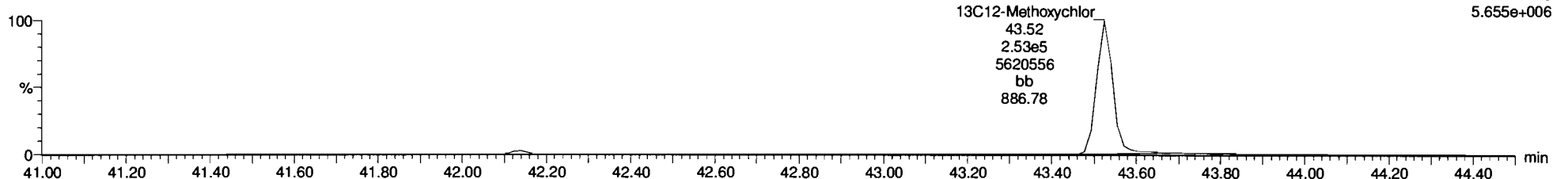
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

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

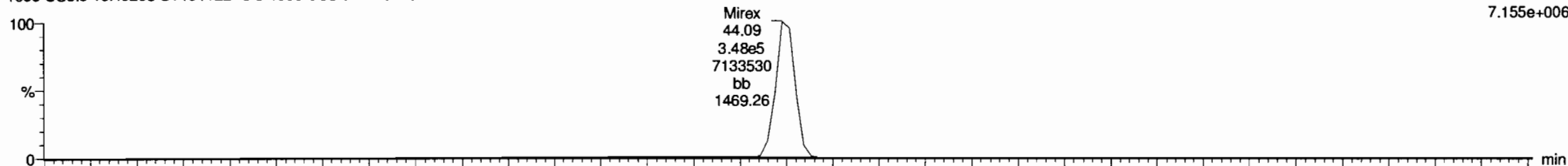
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Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

Mirex

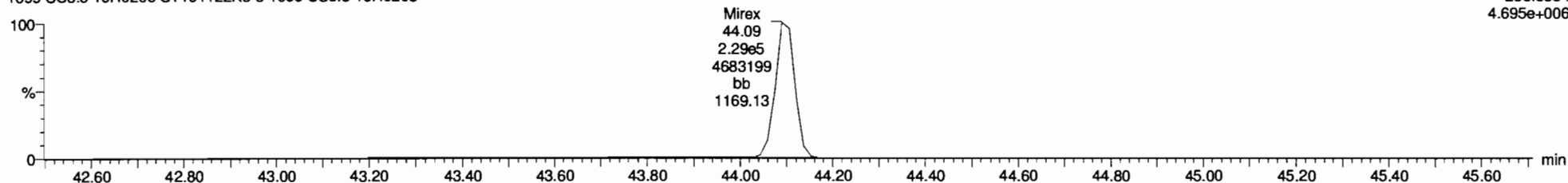
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F5:Voltage SIR,EI+
236.8413
7.155e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

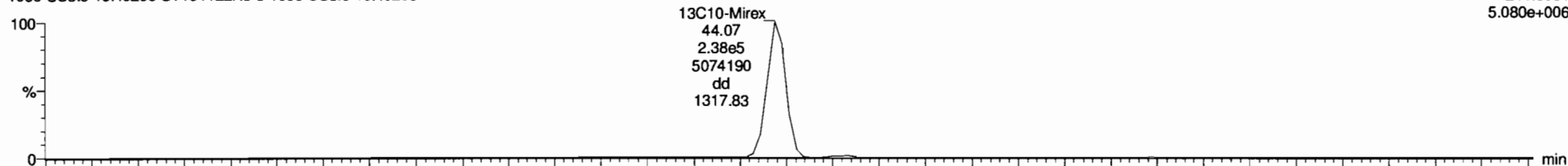
F5:Voltage SIR,EI+
238.8384
4.695e+006



13C10-Mirex

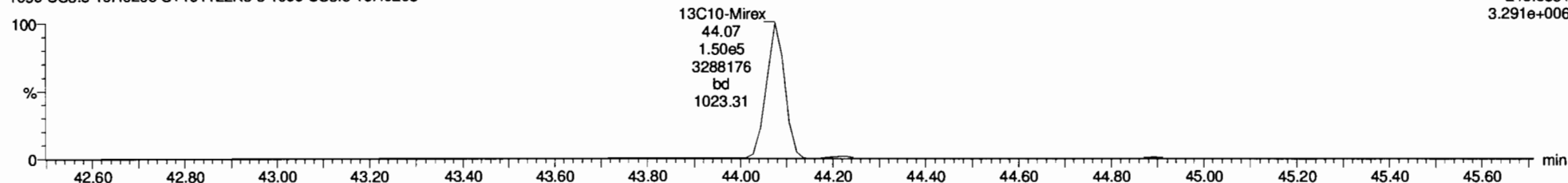
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

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

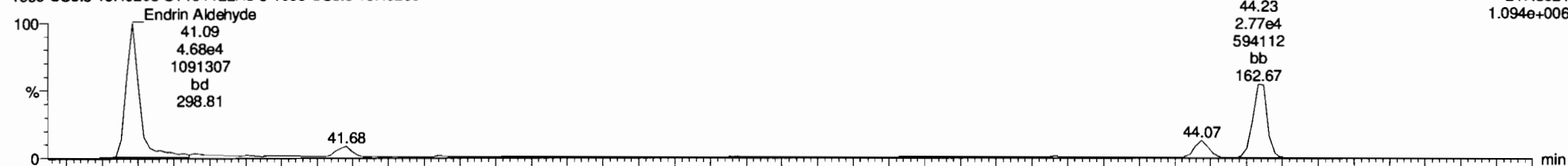
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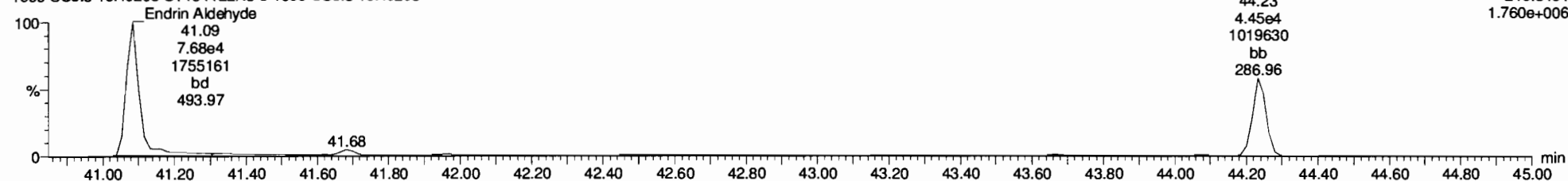
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EA-EK

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

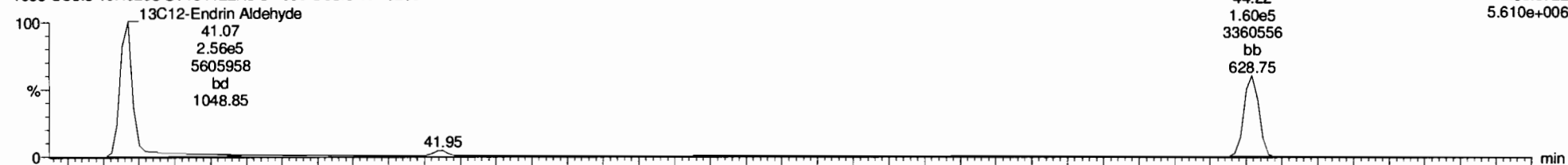


191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

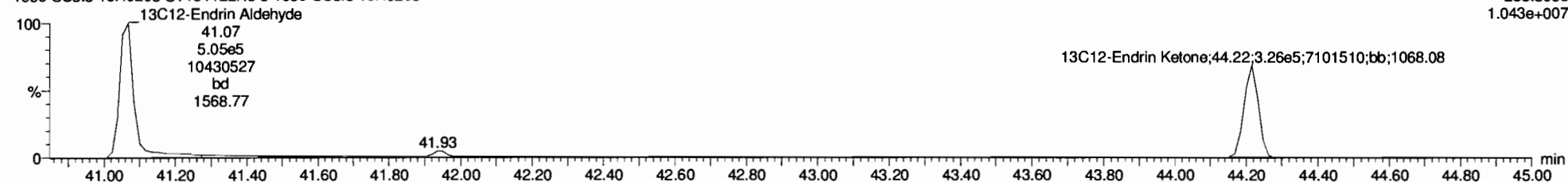


EA-EK-isotopes

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

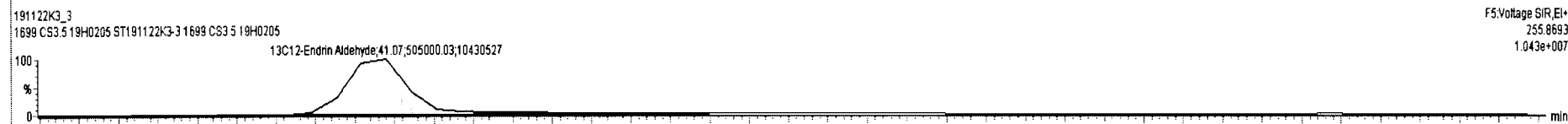
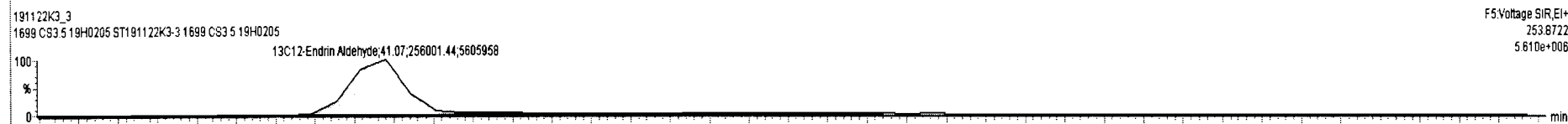
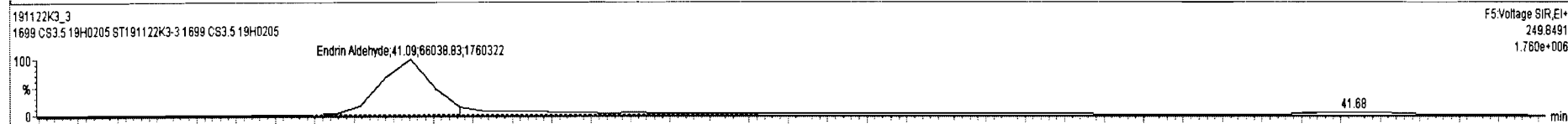
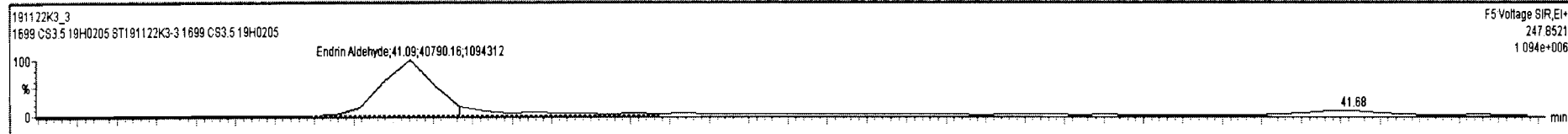


191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



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	9.6083e5	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	-26.5	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



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

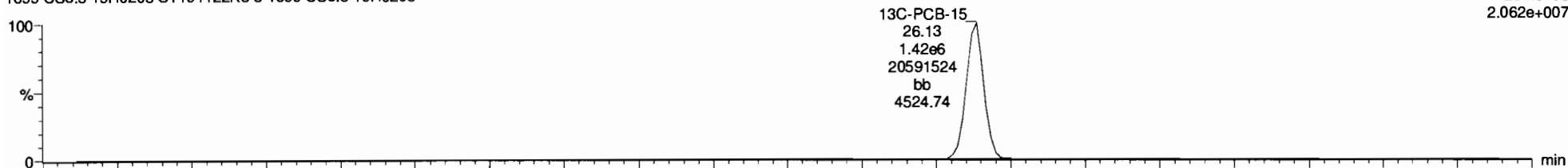
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

13C-PCB-15

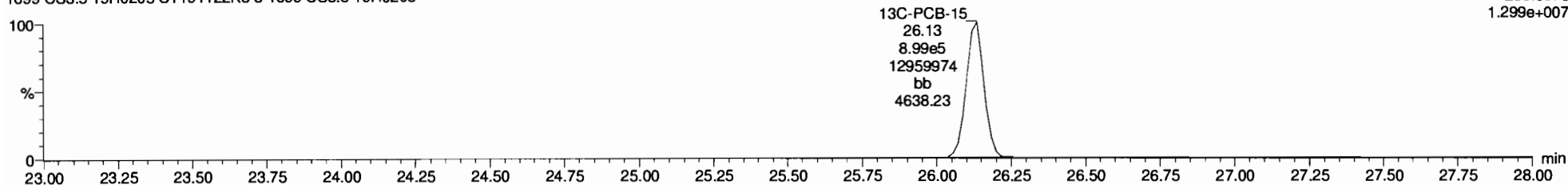
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F2:Voltage SIR,EI+
234.0406
2.062e+007



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

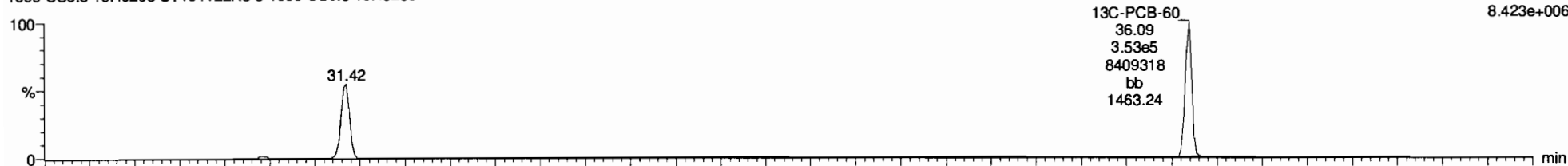
F2:Voltage SIR,EI+
236.0376
1.299e+007



13C-PCB-60

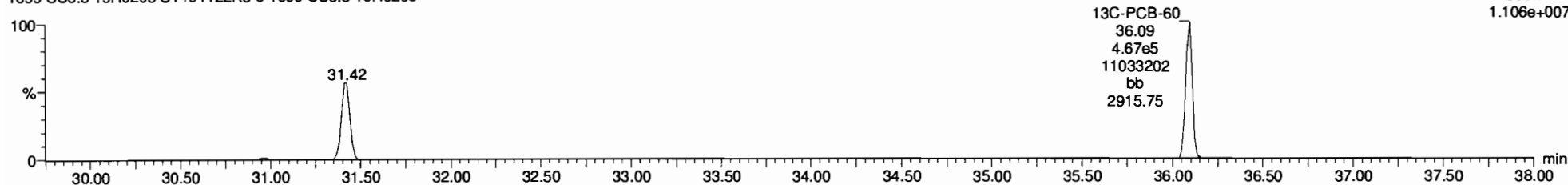
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

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

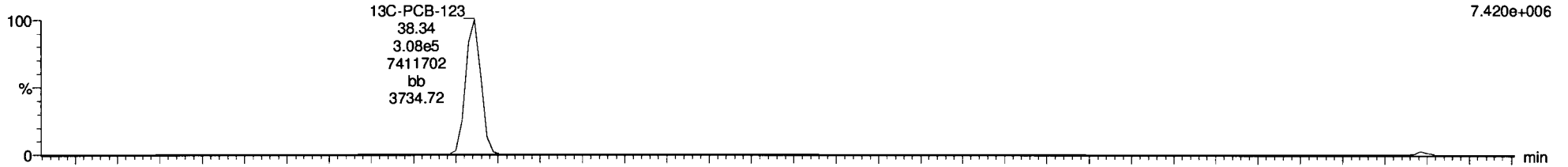
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13C-PCB-123

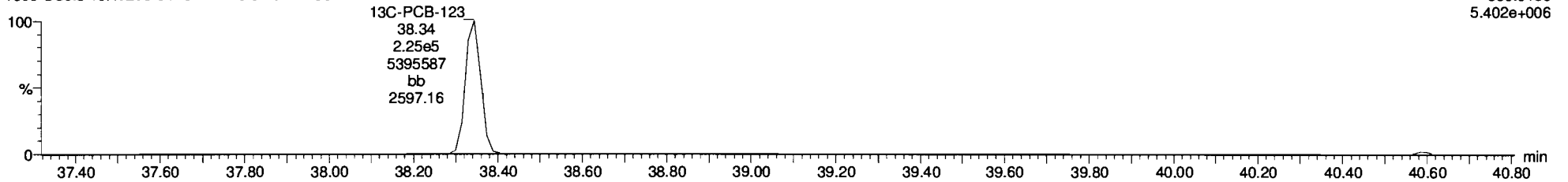
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F4:Voltage SIR,EI+
337.9210
7.420e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

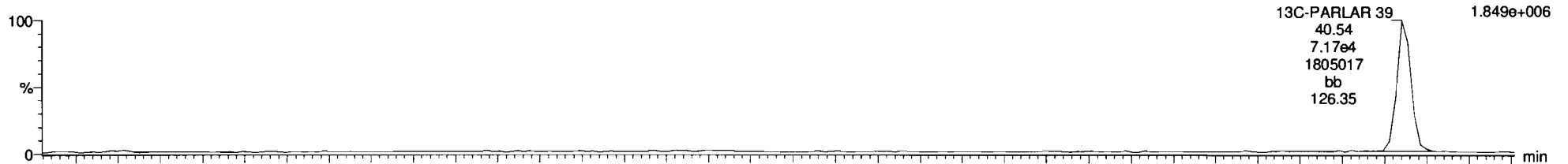
F4:Voltage SIR,EI+
339.9180
5.402e+006



13C-PARLAR 39

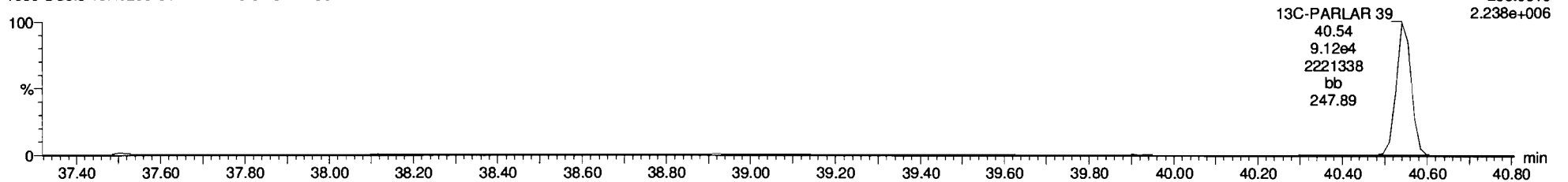
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

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



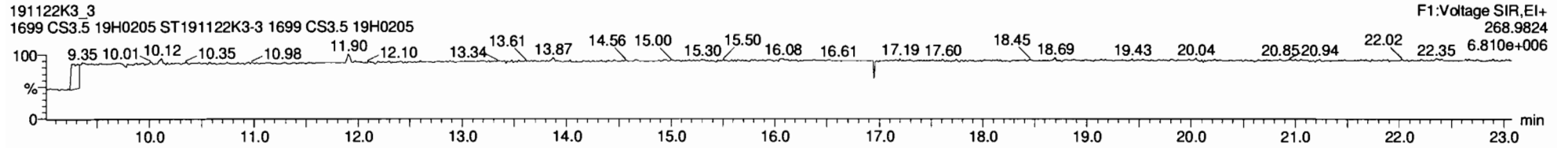
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

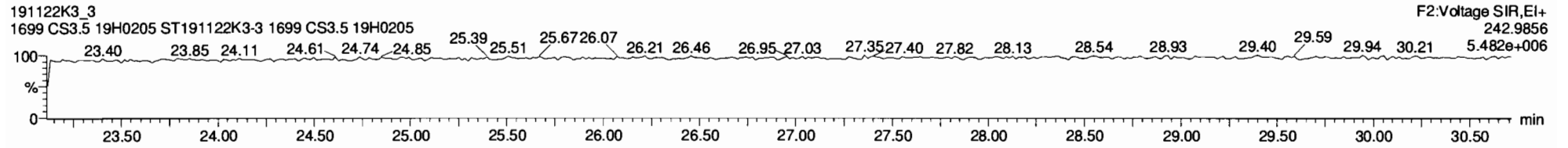
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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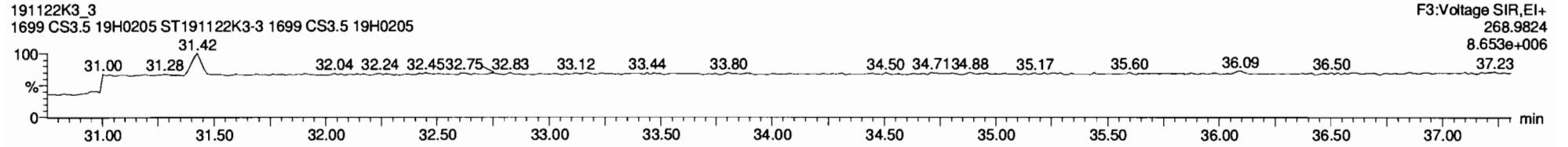
PFK1



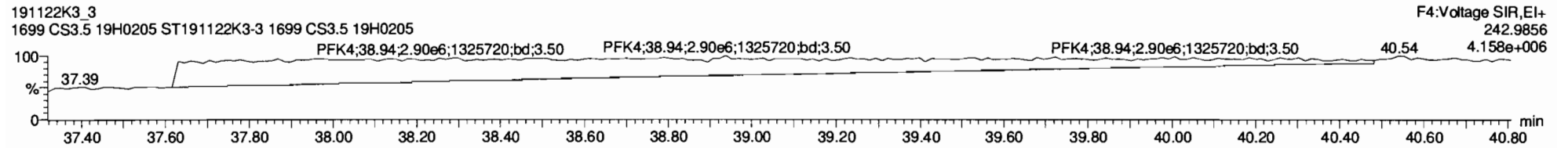
PFK2



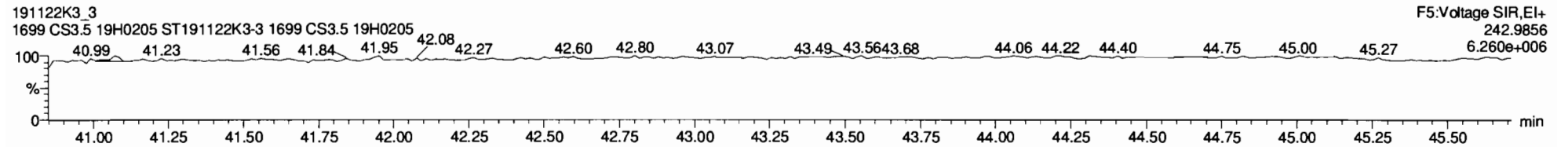
PFK3



PFK4



PFK5



Dataset: Untitled

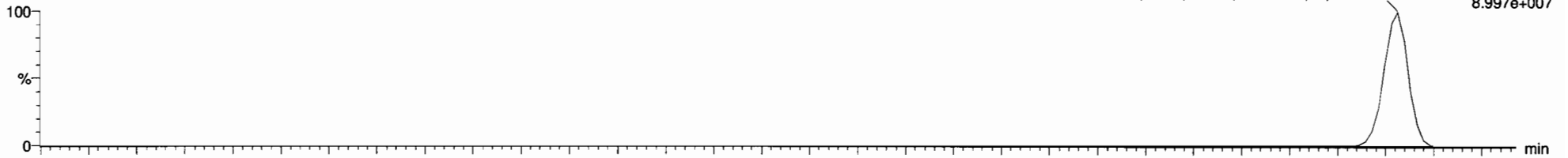
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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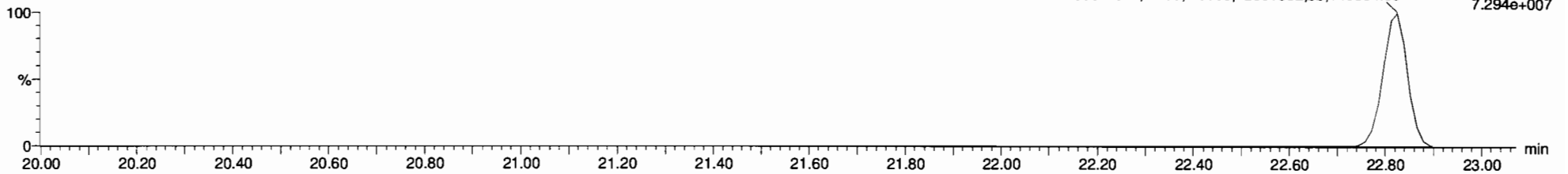
Hexachlorobenzene

191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206



F1:Voltage SIR,EI+
283.8102
8.997e+007

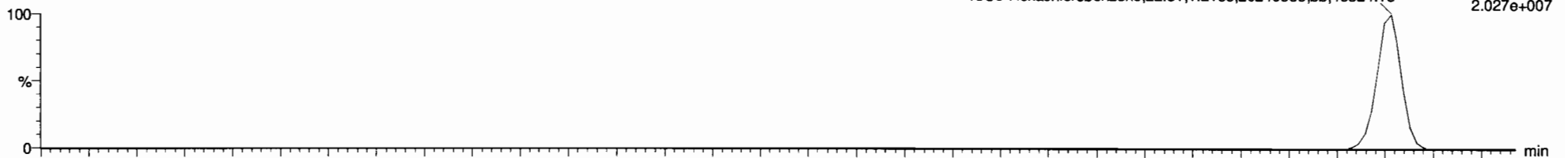
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206



F1:Voltage SIR,EI+
285.8072
7.294e+007

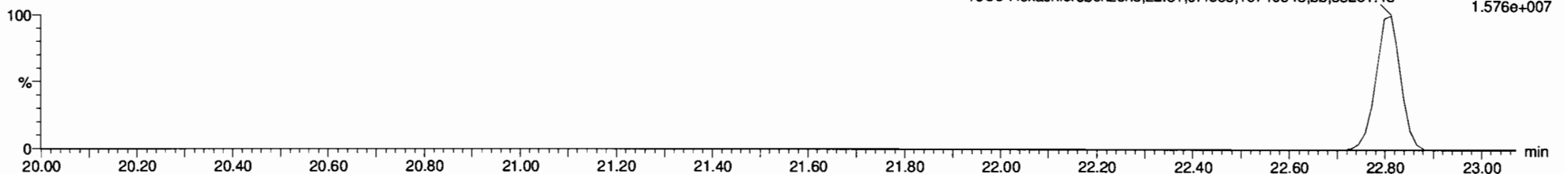
13C6-Hexachlorobenzene

191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206



F1:Voltage SIR,EI+
289.8303
2.027e+007

191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206



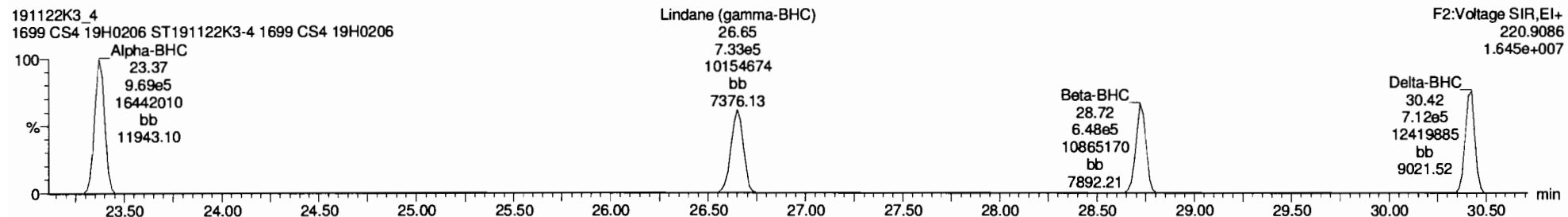
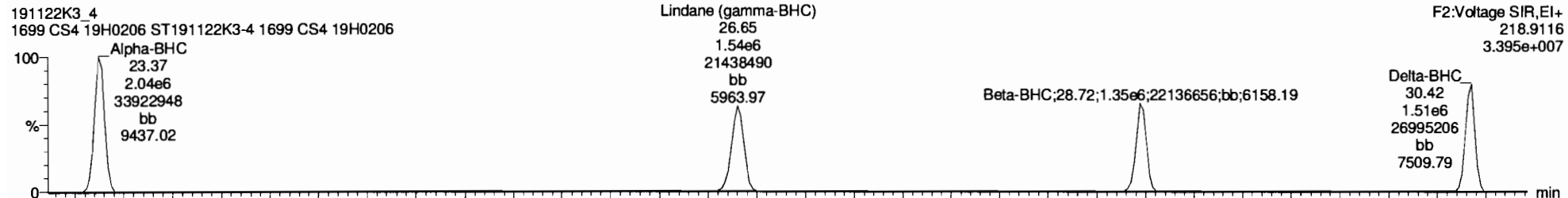
F1:Voltage SIR,EI+
291.8273
1.576e+007

Dataset: Untitled

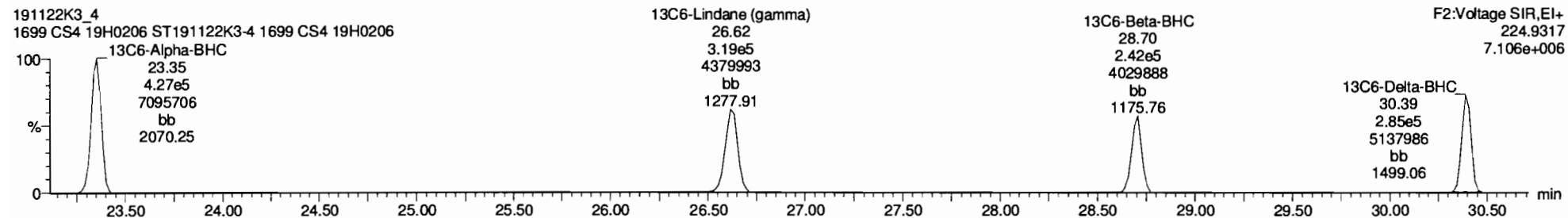
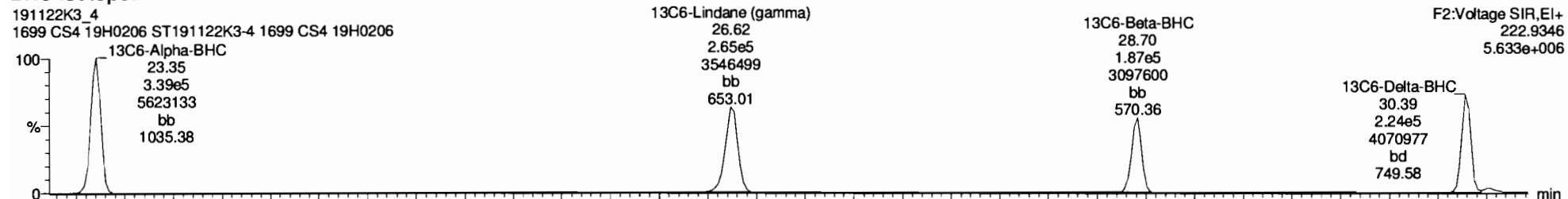
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
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Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

BHC Totals



BHC-isotopes



Dataset: Untitled

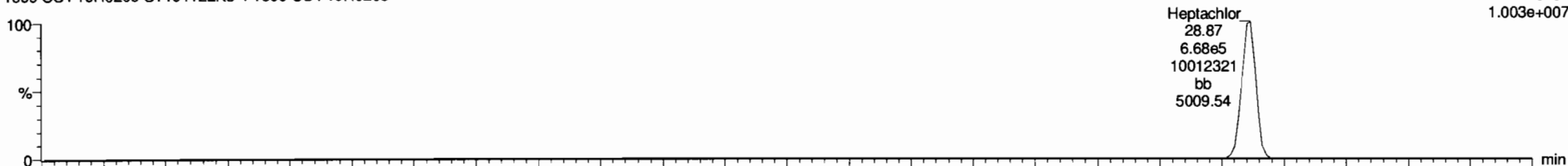
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

Heptachlor

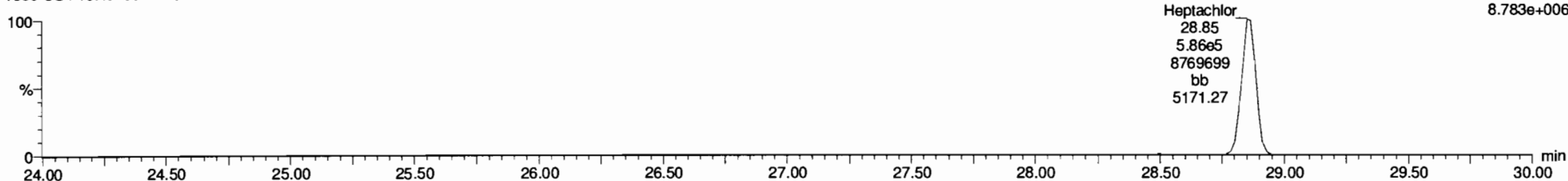
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F2:Voltage SIR,EI+
271.8102
1.003e+007



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

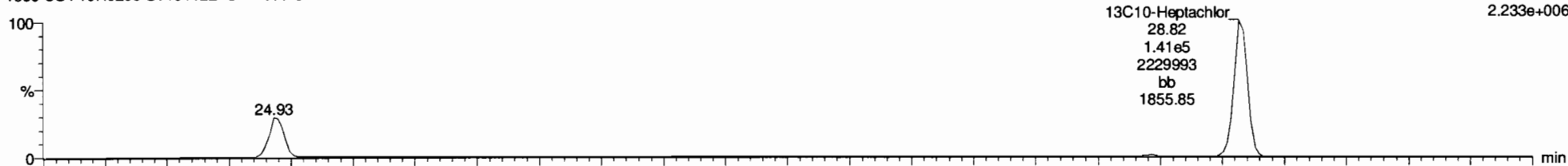
F2:Voltage SIR,EI+
273.8072
8.783e+006



13C10-Heptachlor

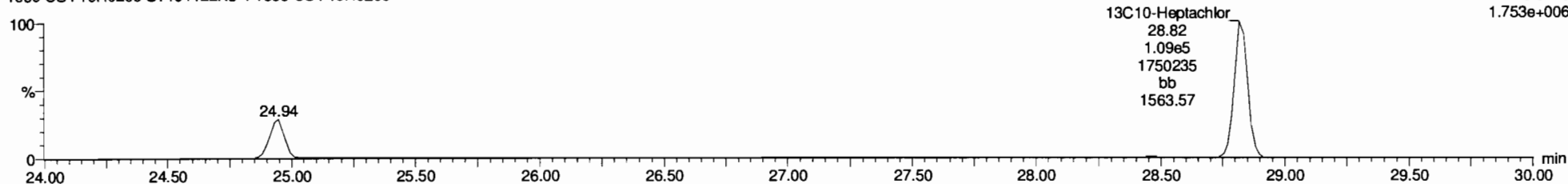
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

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

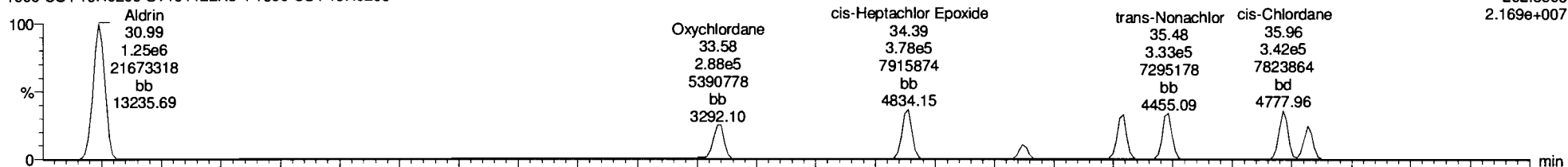
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Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

Aldrin-EI

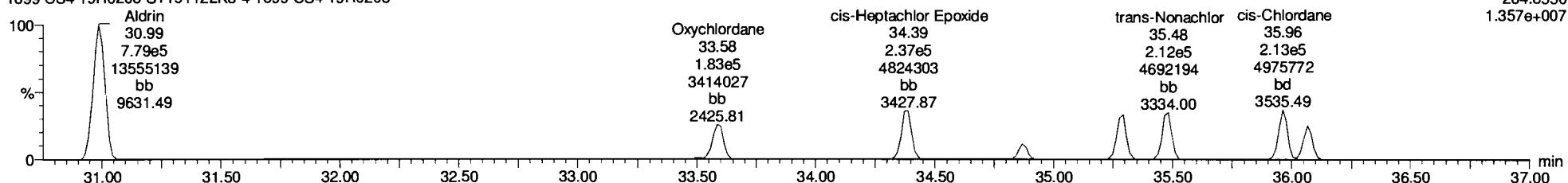
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F3:Voltage SIR,EI+
262.8569
2.169e+007



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

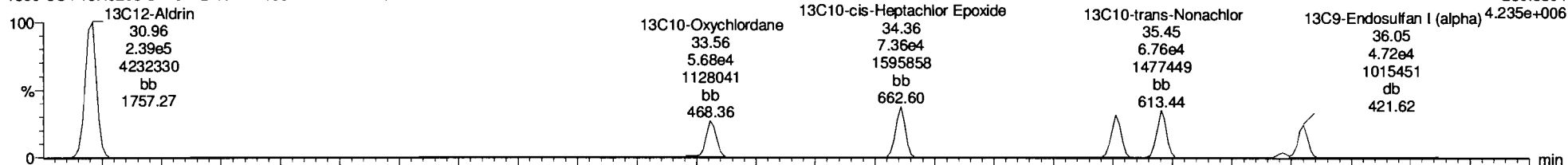
F3:Voltage SIR,EI+
264.8550
1.357e+007



Aldrin-EI-isotopes

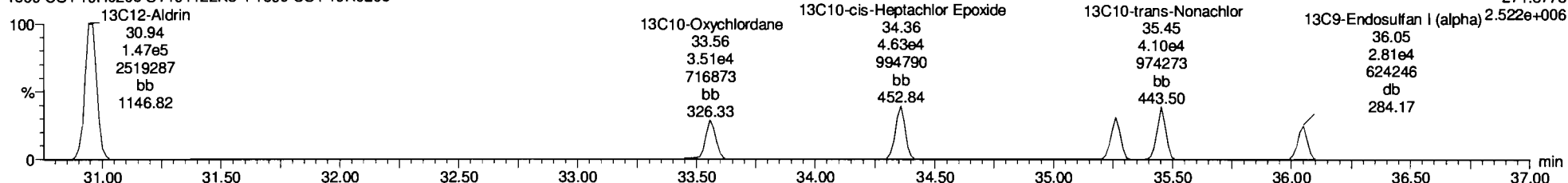
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

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

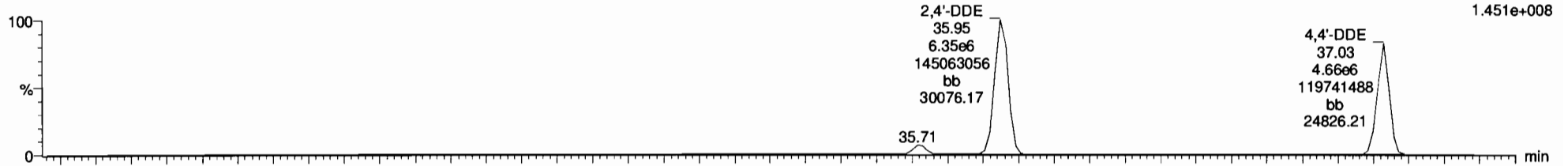
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

DDMU-DDE

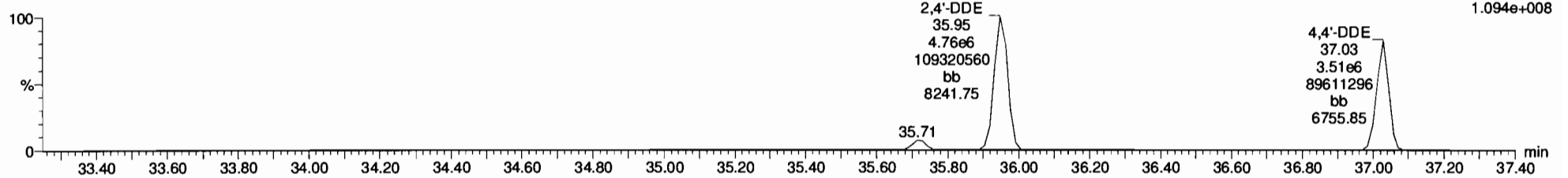
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

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

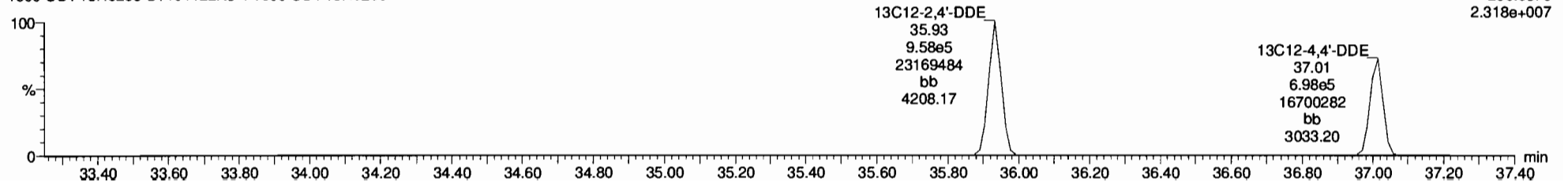
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

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

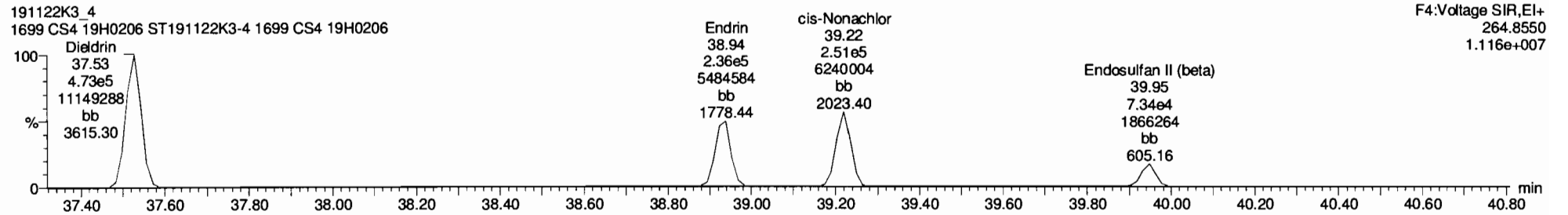
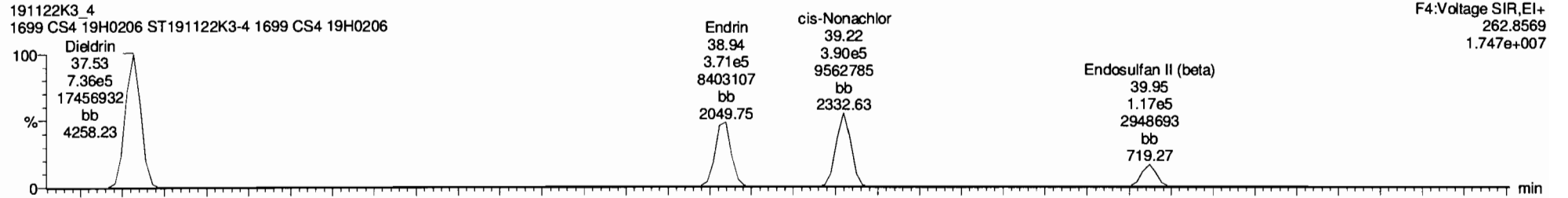


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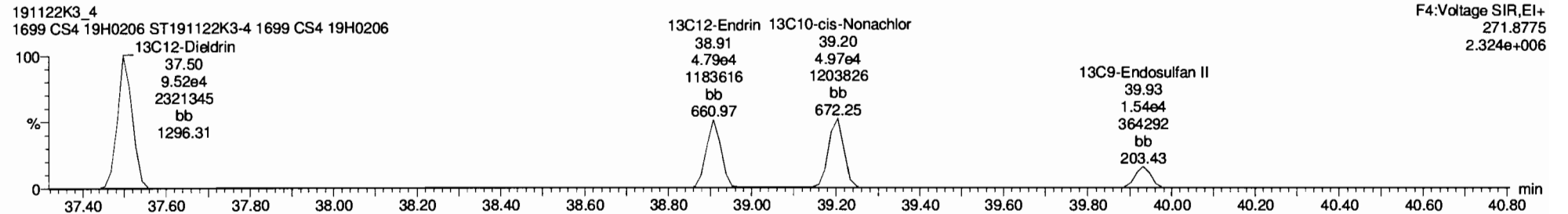
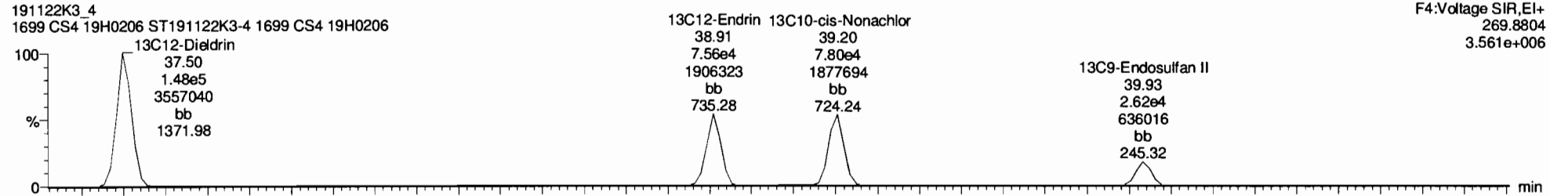
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

Dieldrin-EII

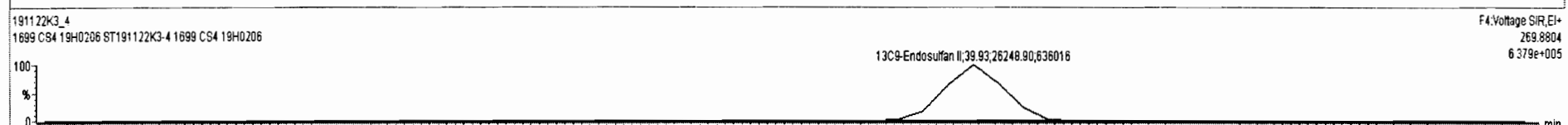
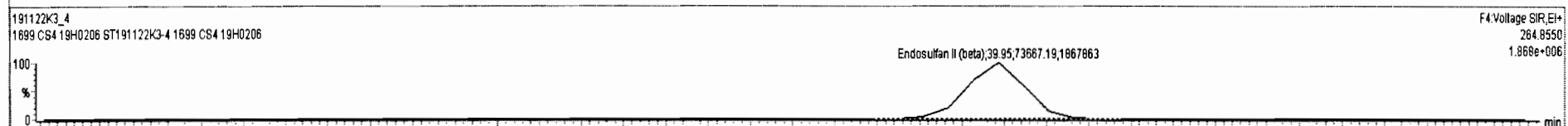
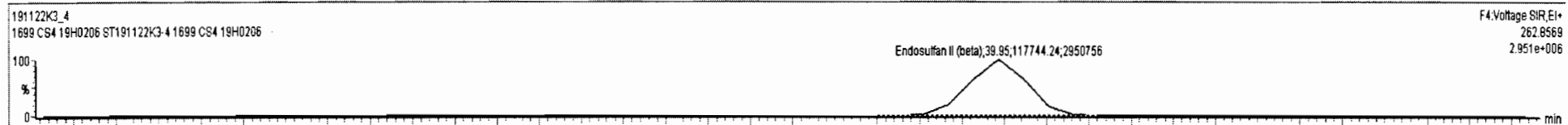


Dieldrin-EII-isotopes



191122K3_4 - ST: 191122K3_4 - 1699 CS4 19H0206 - 1699 CS4 19H0206

#	RT	Name	RA	yth	Area	IS Area	Std. Conc.	%Dev	%RSD	RRF M...	RRF SD
1	10.23	Hexachlorobutadiene	0.047	YES	7.3897e4	4.1143e6	1250.000	-96.0	165	0.179	0.332
2	22.83	Hexachlorobenzene	1.223	NO	9.7321e6	2.1575e6	250.000	3.2	9.56	0.874	0.0836
3	23.37	Alpha-BHC	2.107	NO	3.0118e6	7.6581e5	250.000	3.4	9.29	0.760	0.0706
4	26.65	Lindane (gamma-BHC)	2.097	NO	2.2688e6	5.8348e5	250.000	4.6	10.7	0.744	0.0799
5	28.72	Beta-BHC	2.082	NO	1.9863e6	4.2923e5	250.000	3.8	9.61	0.896	0.0861
6	30.42	Delta-BHC	2.126	NO	2.2247e6	5.0843e5	250.000	4.5	9.98	0.837	0.0835
7	28.86	Heptachlor	1.141	NO	1.2544e6	2.4927e5	250.000	4.0	10.0	0.968	0.0968
8	30.34	4,4'-DDMU	3.166	NO	3.3648e6	5.0843e5	250.000	4.5	11.3	1.27	0.143
9	30.99	Albin	1.601	NO	2.0284e6	3.8608e5	250.000	2.5	9.91	1.02	0.101
10	33.58	Oxychlorane	1.576	NO	4.7150e5	9.1878e4	250.000	3.4	9.31	0.992	0.0924
11	34.39	cis-Heptachlor Epoxide	1.593	NO	6.1540e5	1.1982e5	250.000	2.4	10.4	1.00	0.104
12	34.87	trans-Heptachlor Epoxide	1.542	NO	1.6301e5	1.1982e5	250.000	6.7	11.6	0.255	0.0297
13	35.29	trans-Chlordane (gamma)	1.578	NO	5.2482e5	9.7237e4	250.000	-0.4	13.1	1.08	0.142
14	35.48	trans-Nonachlor	1.568	NO	5.4536e5	1.0858e5	250.000	0.2	14.4	1.00	0.144
15	35.96	cis-Chlordane	1.605	NO	5.5577e5	1.0858e5	250.000	4.4	12.3	0.961	0.121
16	36.06	Endosulfan I (alpha)	1.577	NO	3.7325e5	7.5267e4	250.000	-10.4	19.7	1.11	0.218
17	35.73	4,4'-DDMU	3.165	NO	7.8377e6	2.4840e6	250.000	2.3	11.3	0.617	0.0697
18	35.95	2,4'-DDE	1.335	NO	1.1105e7	2.4840e6	250.000	4.7	10.0	0.854	0.0855
19	37.03	4,4'-DDE	1.327	NO	8.1778e6	1.8068e6	250.000	3.7	10.3	0.873	0.0898
20	37.53	Dieldrin	1.557	NO	1.2095e6	2.4361e5	250.000	3.8	10.0	0.957	0.0957
21	38.94	Endrin	1.573	NO	6.0629e5	1.2354e5	250.000	5.3	10.5	0.933	0.0975
22	39.22	cis-Nonachlor	1.553	NO	6.4054e5	1.2784e5	250.000	5.0	12.2	0.956	0.117
23	39.95	Endosulfan II (beta)	1.588	NO	1.9141e5	4.1832e4	250.000	-13.6	19.9	1.06	0.212



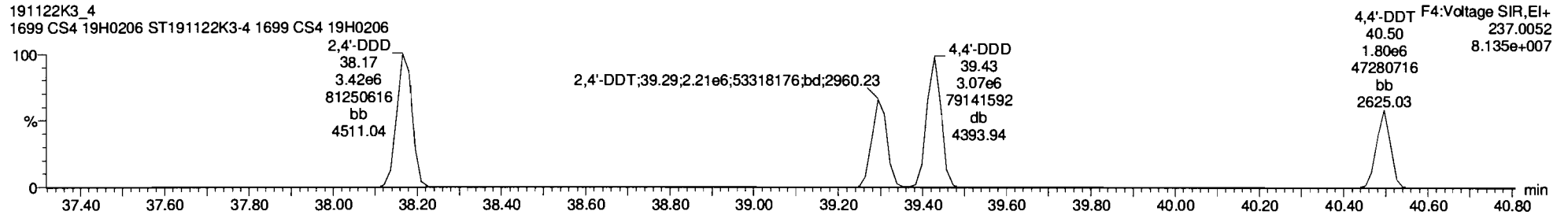
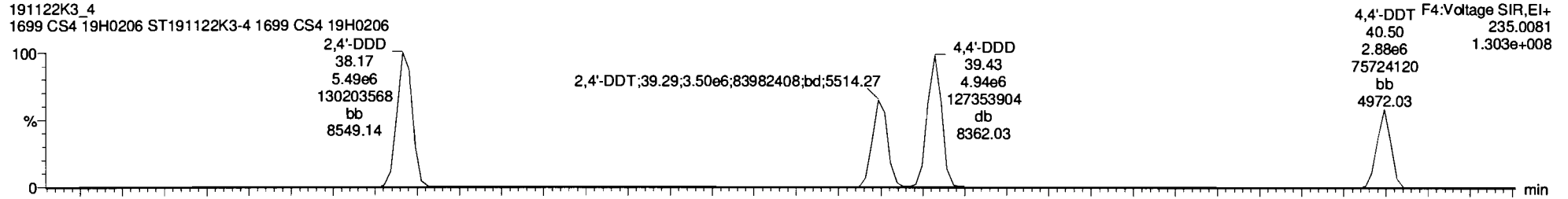
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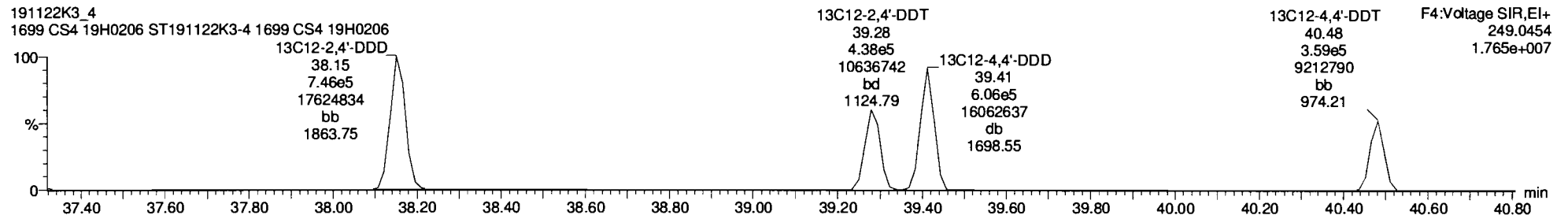
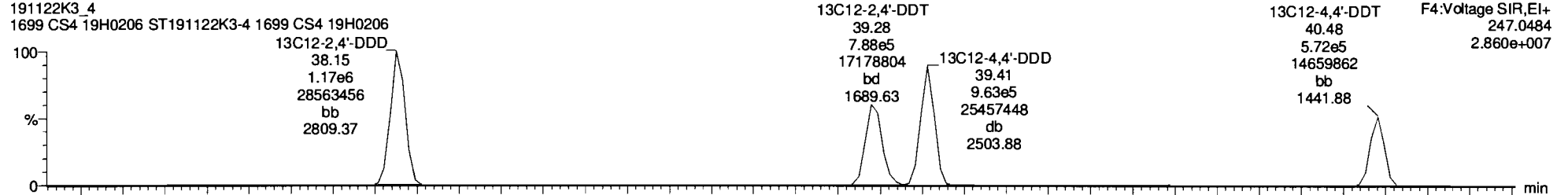
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

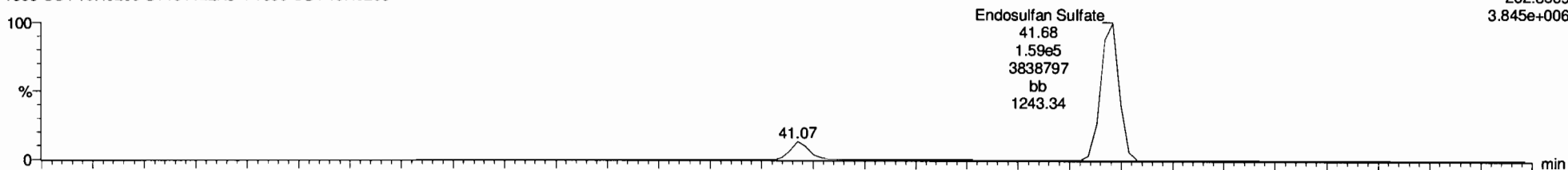
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

Endosulfan Sulfate

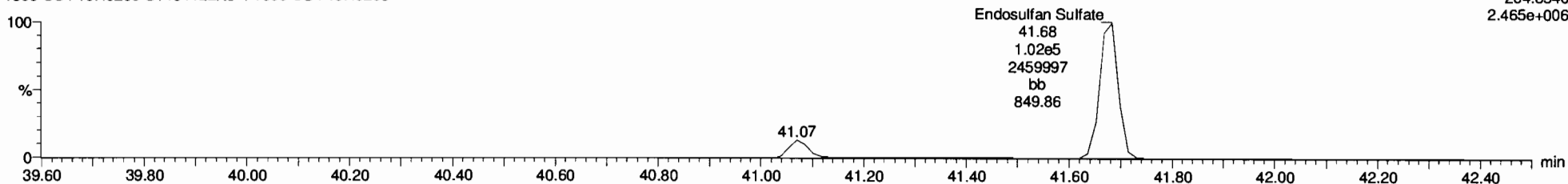
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F5:Voltage SIR,EI+
262.8569
3.845e+006



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

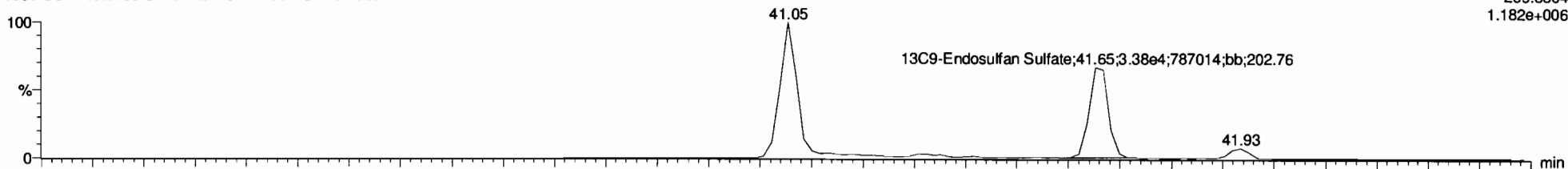
F5:Voltage SIR,EI+
264.8540
2.465e+006



13C9-Endosulfan Sulfate

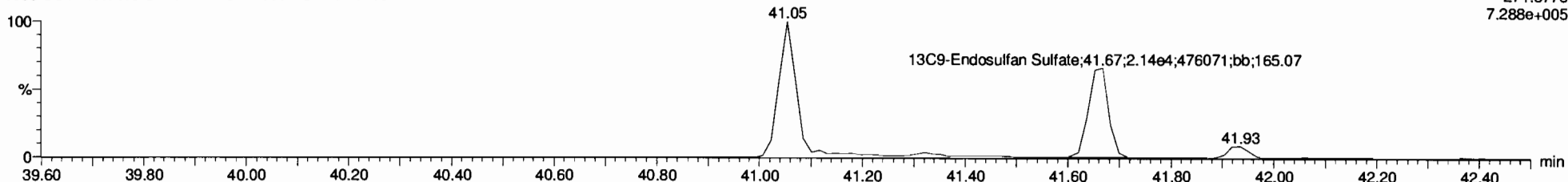
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

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

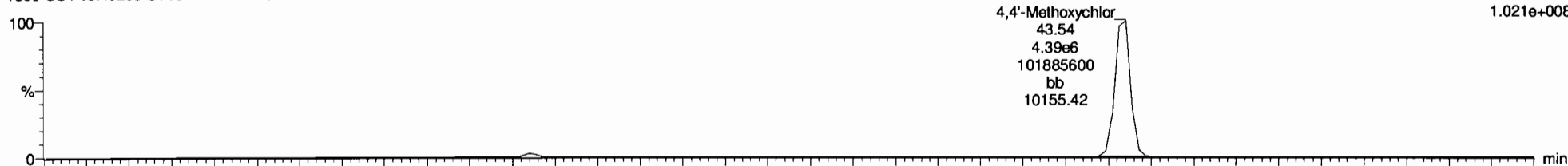
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Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

4,4'-Methoxychlor

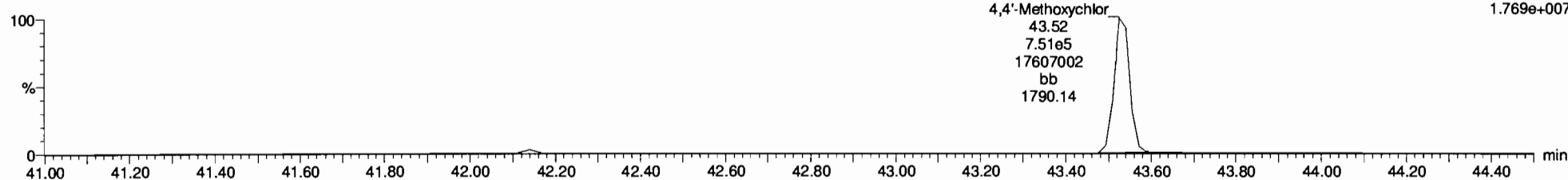
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F5:Voltage SIR,El+
227.1072
1.021e+008



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

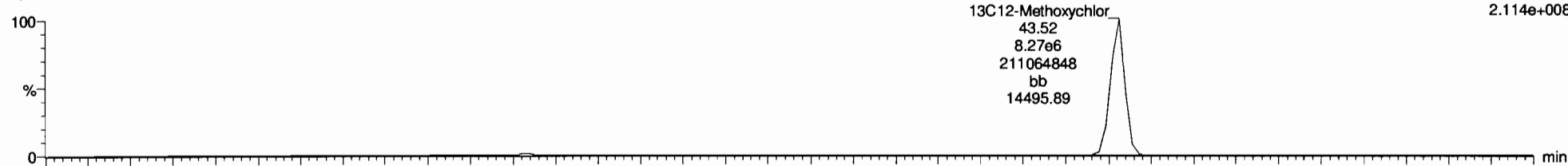
F5:Voltage SIR,El+
228.1106
1.769e+007



13C12-Methoxychlor

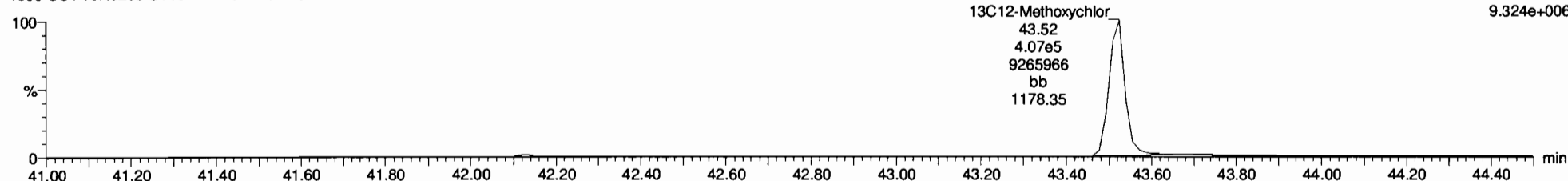
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

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

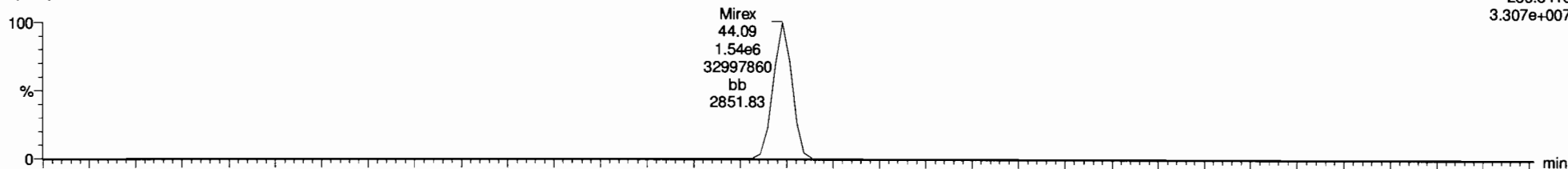
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Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

Mirex

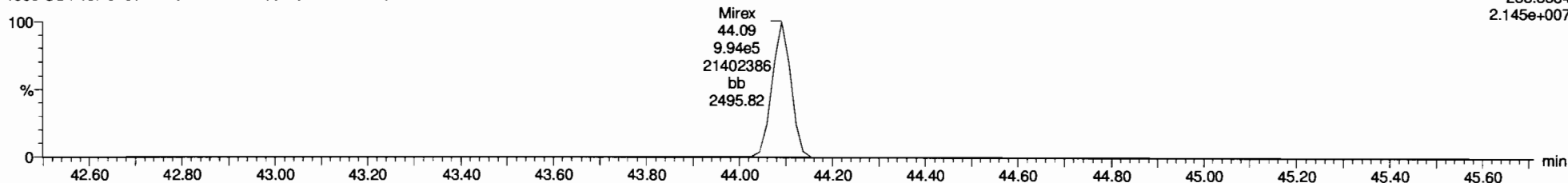
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F5:Voltage SIR,EI+
236.8413
3.307e+007



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

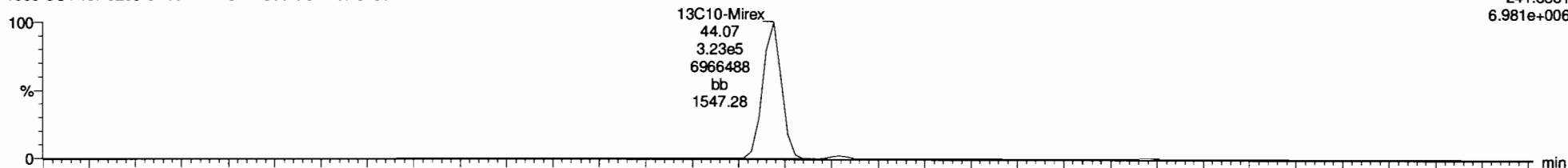
F5:Voltage SIR,EI+
238.8384
2.145e+007



13C10-Mirex

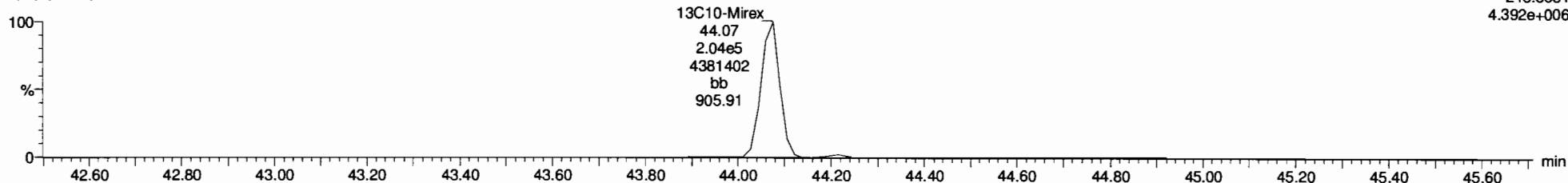
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

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

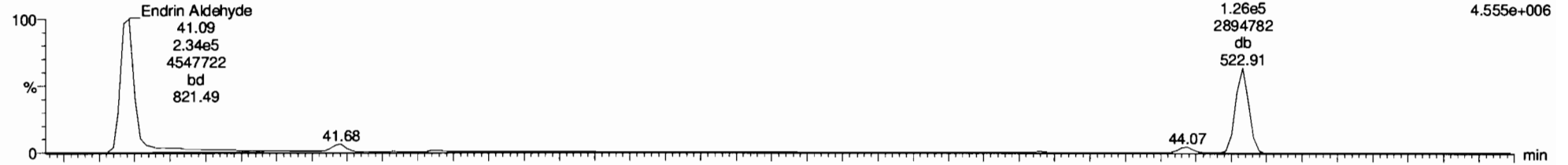
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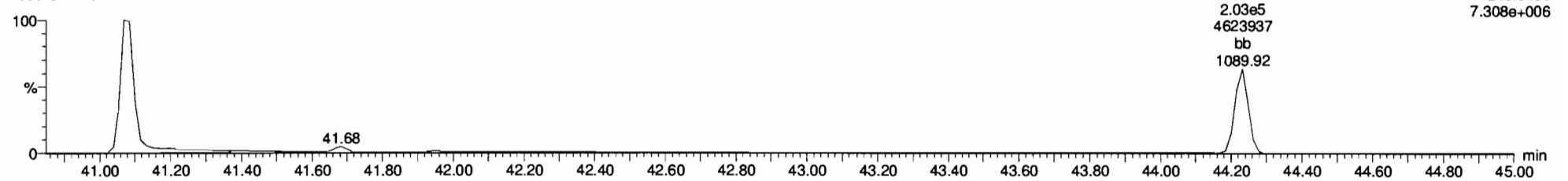
Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

EA-EK

191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

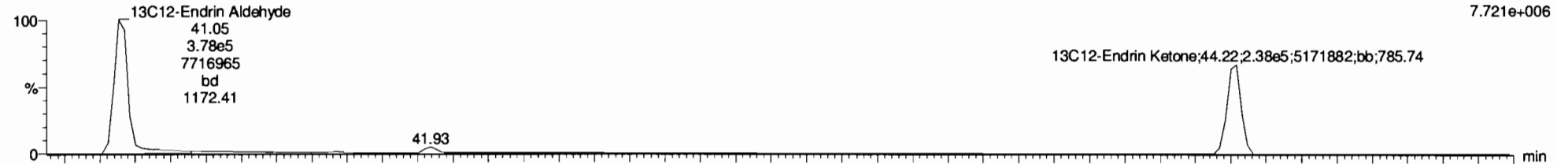


191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

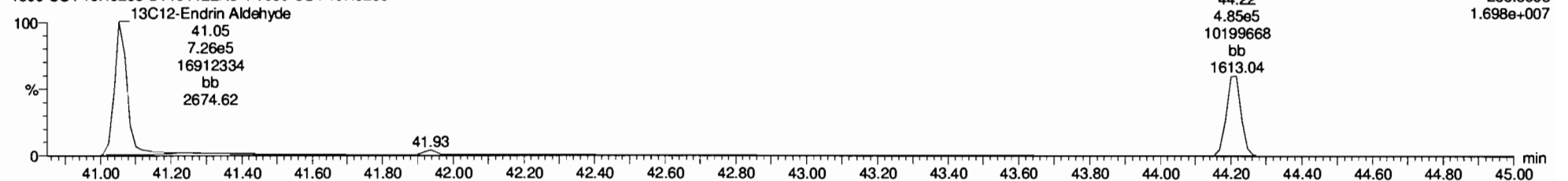


EA-EK-isotopes

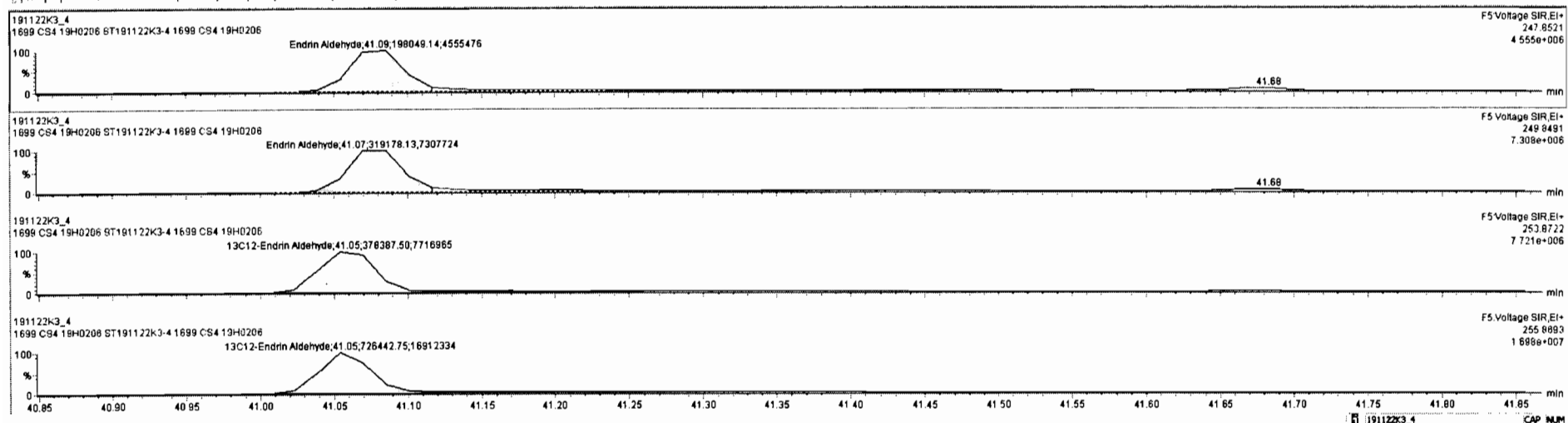
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206



#	Name	RT	RA	Ysh	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	4,4'-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	1.8	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	0.681	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	13C12-Aldrin	30.96	1.623	NO	3.8608e5	3.2237e6	50.000	-1.5	3.19	0.122	0.00388
41	13C10-Oxychlorane	33.58	1.817	NO	9.1878e4	3.2237e6	50.000	0.7	8.55	0.0283	0.00242
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	13C10-trans-Heptachlor (g...	35.26	1.796	NO	9.7237e4	3.2237e6	50.000	3.4	5.12	0.0292	0.00149
44	13C10-trans-Nonachlor	35.45	1.648	NO	1.0858e5	3.2237e6	50.000	1.0	9.41	0.0333	0.00314
45	13C9-Endosulfan (alpha)	36.05	1.682	NO	7.5287e4	3.2237e6	50.000	10.1	7.38	0.0212	0.00156
46	13C12-2,4'-DDE	35.93	1.592	NO	2.4840e5	3.2237e6	50.000	1.0	4.08	0.763	0.0312



Dataset: Untitled

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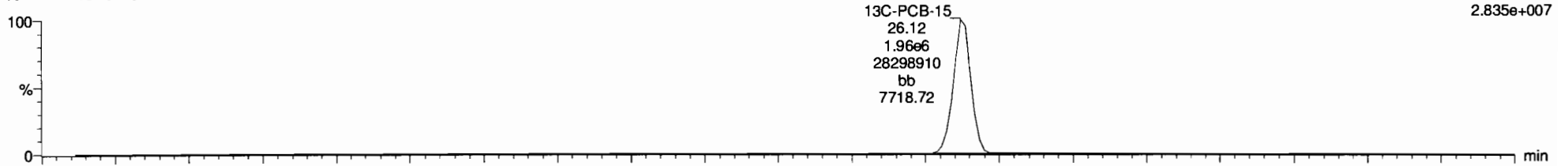
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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13C-PCB-15

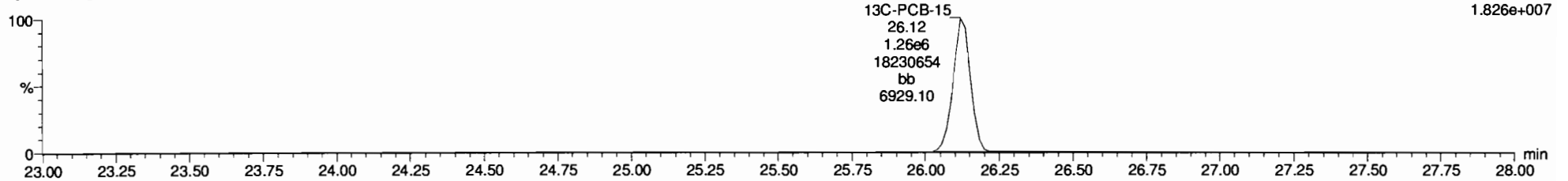
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F2:Voltage SIR,EI+
234.0406
2.835e+007



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

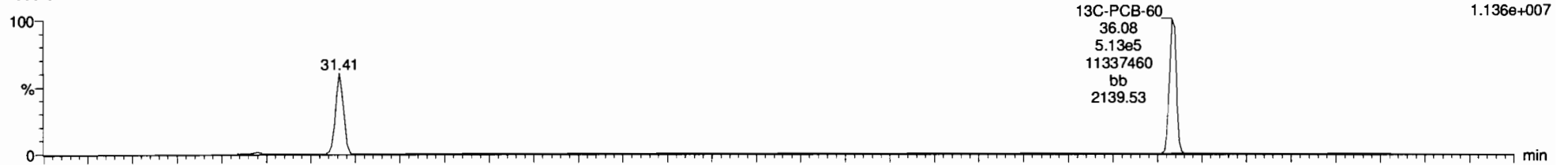
F2:Voltage SIR,EI+
236.0376
1.826e+007



13C-PCB-60

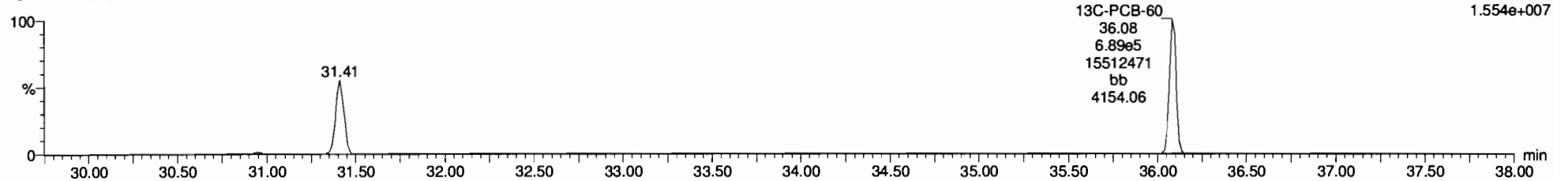
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

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

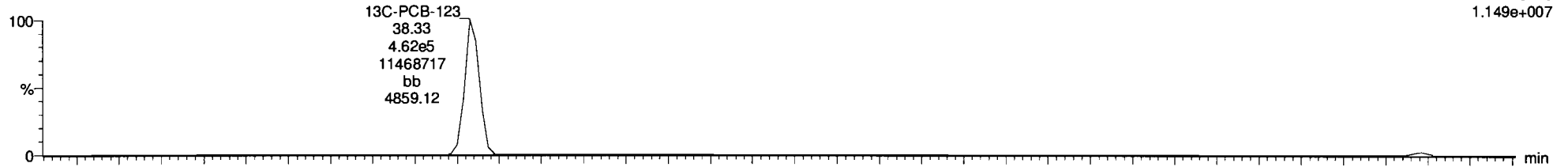
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13C-PCB-123

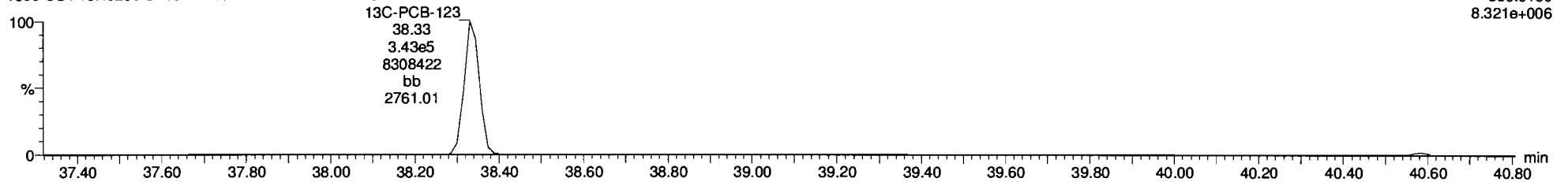
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1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F4:Voltage SIR,EI+
337.9210
1.149e+007



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

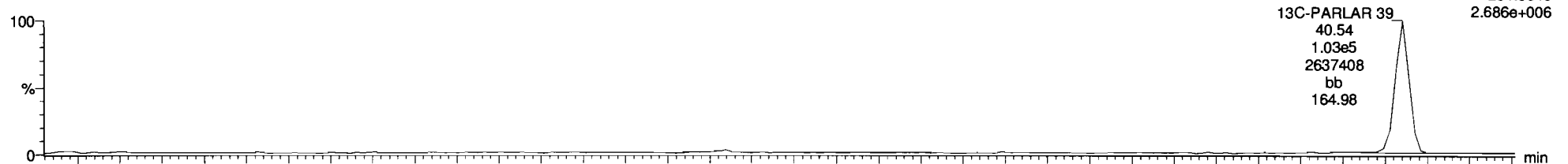
F4:Voltage SIR,EI+
339.9180
8.321e+006



13C-PARLAR 39

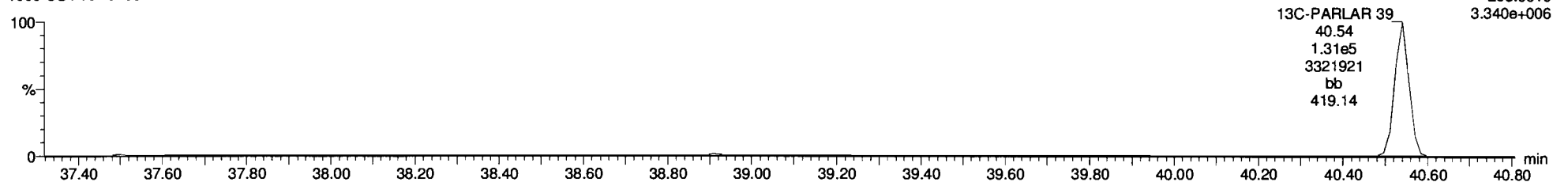
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

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



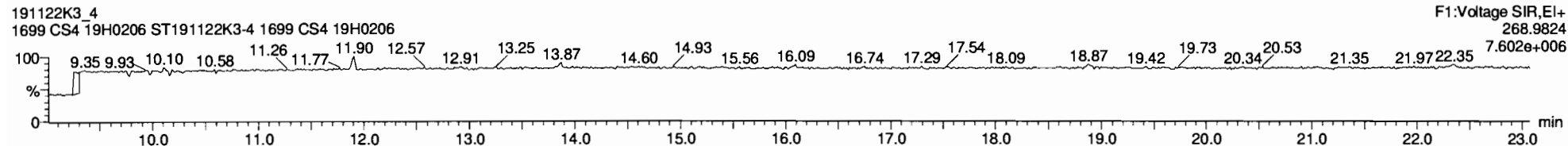
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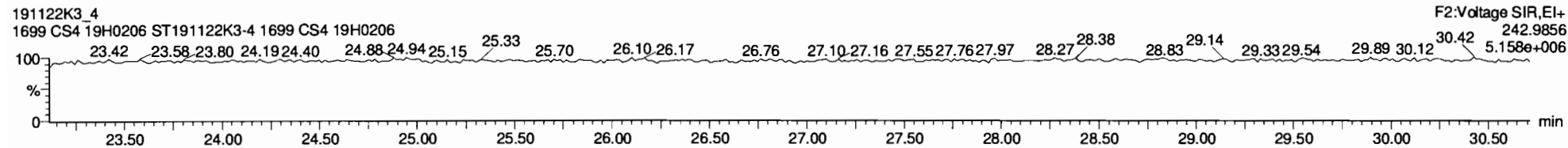
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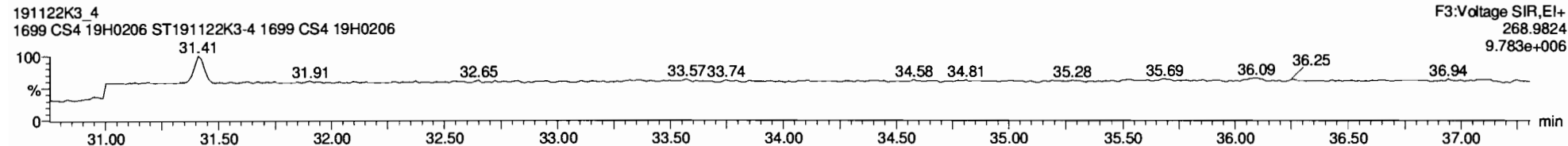
PFK1



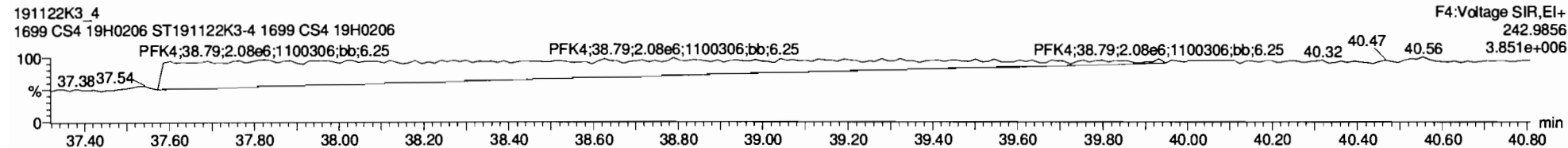
PFK2



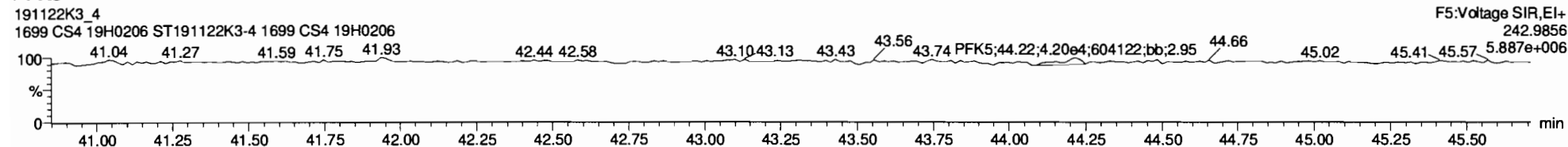
PFK3



PFK4



PFK5



Dataset: Untitled

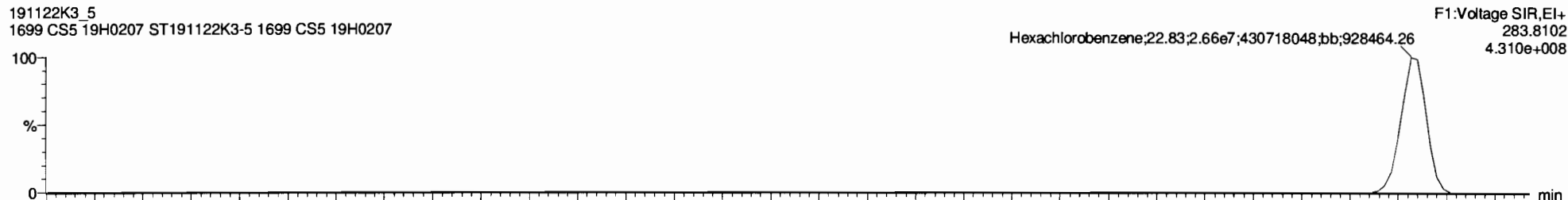
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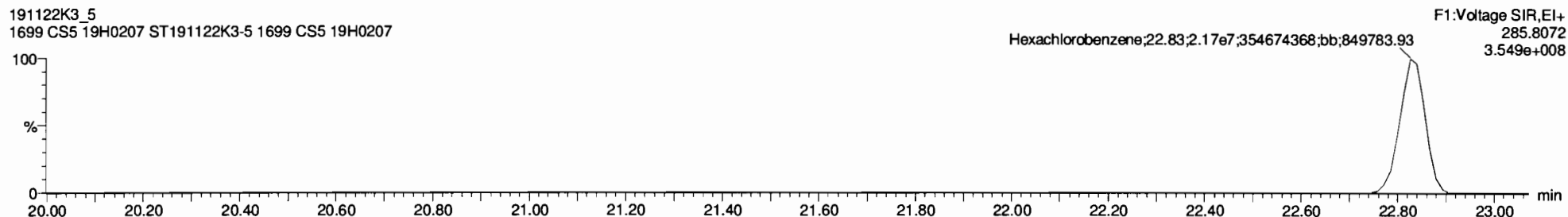
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Hexachlorobenzene

191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

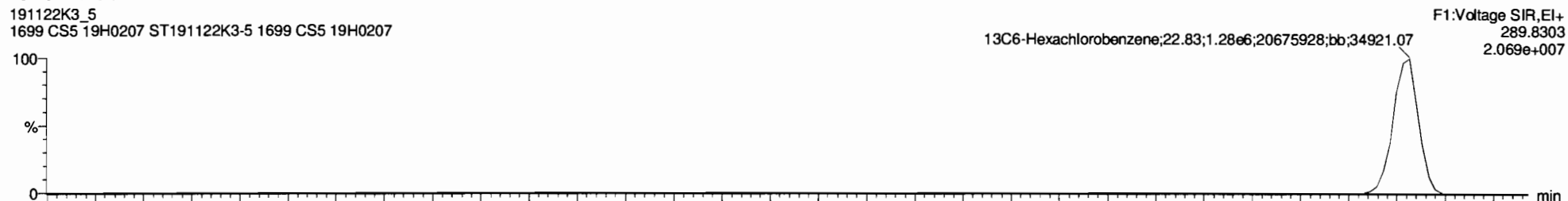


191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

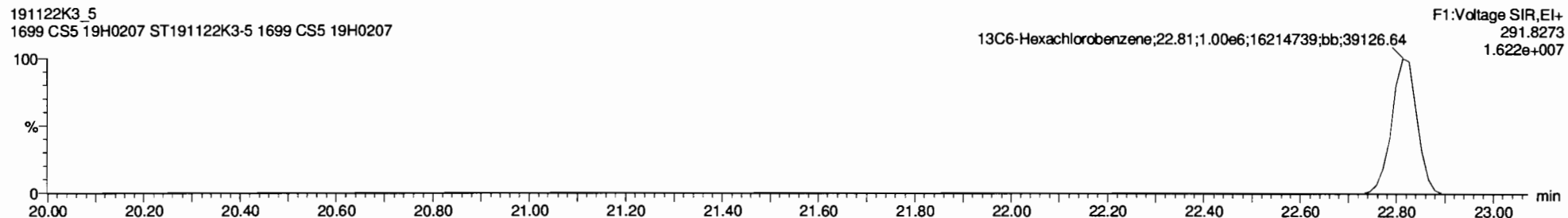


13C6-Hexachlorobenzene

191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207



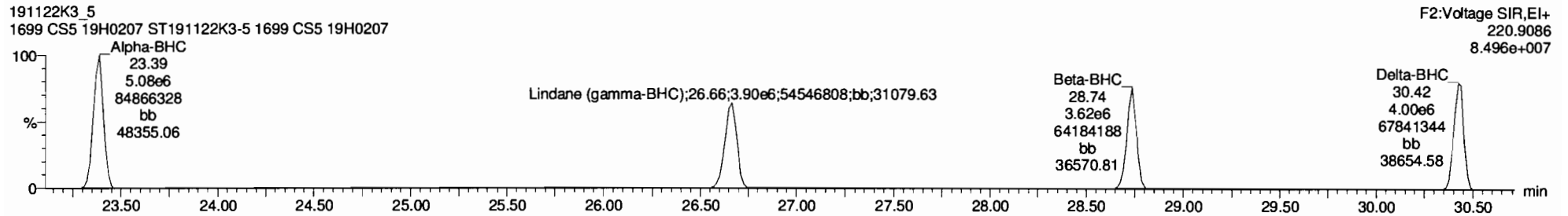
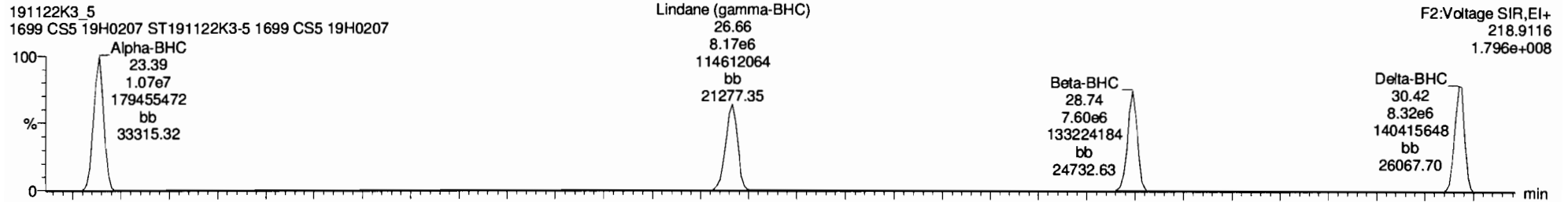
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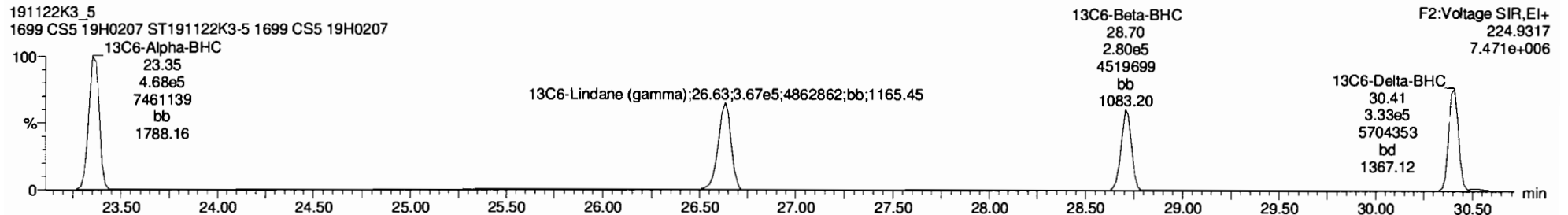
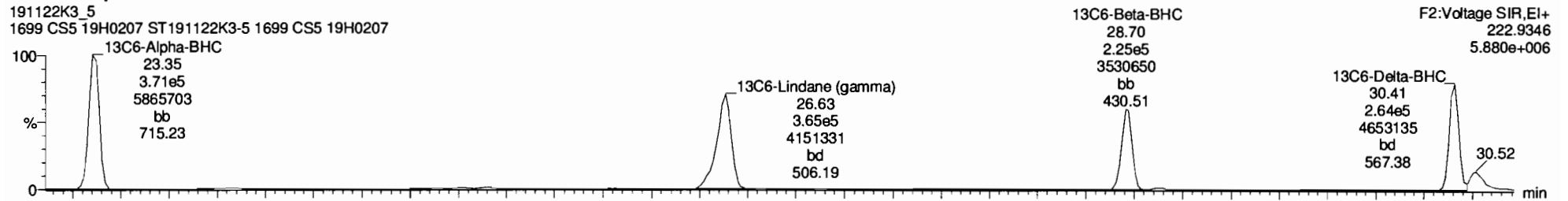
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Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

BHC Totals

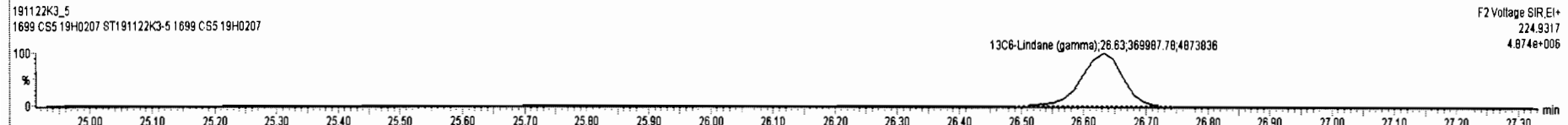
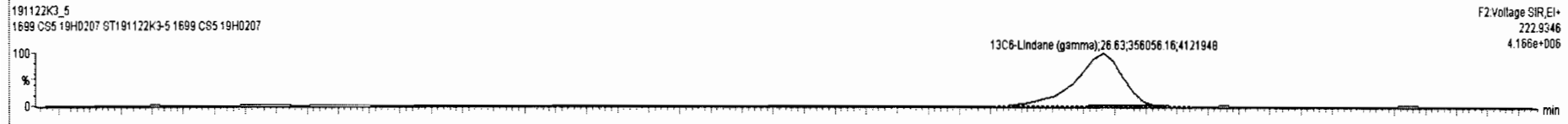
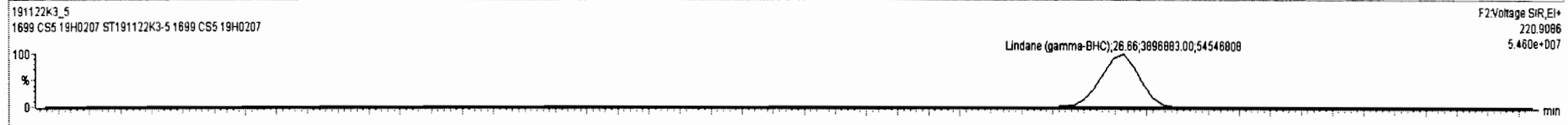
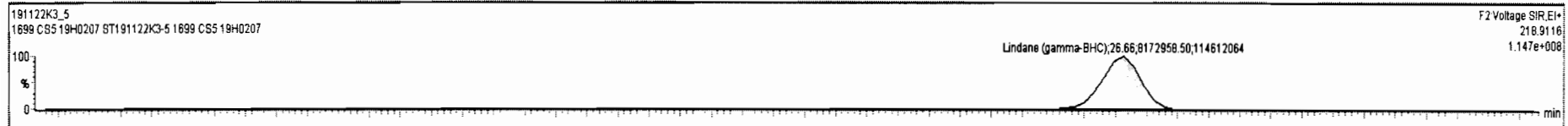


BHC-isotopes



191122K3_5 ST191122K3-5 1699 CS5 19H0207

#	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



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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

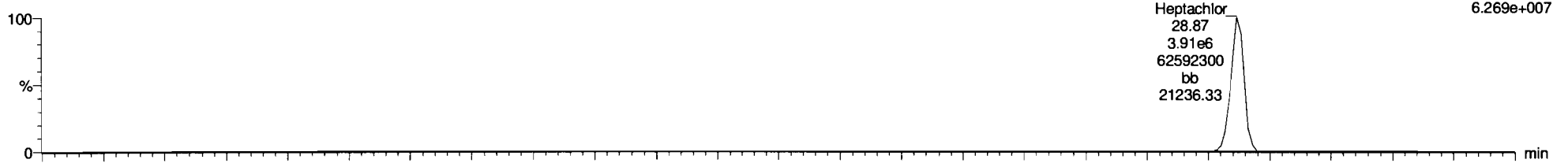
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Heptachlor

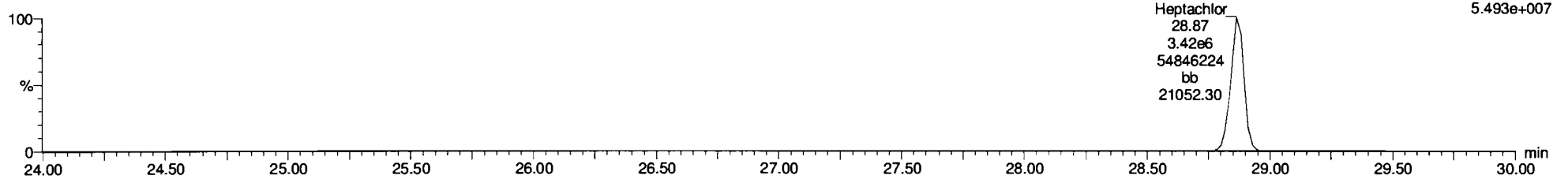
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F2:Voltage SIR,EI+
271.8102
6.269e+007



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

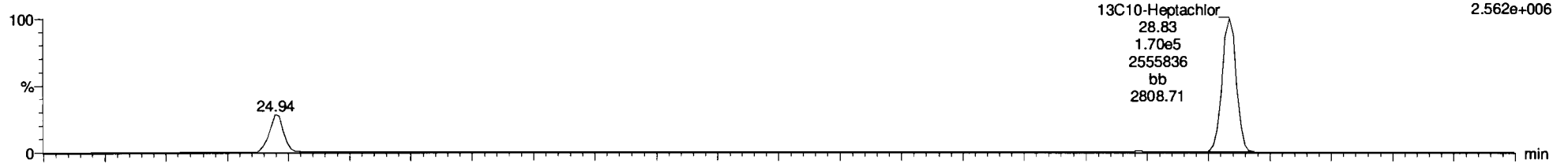
F2:Voltage SIR,EI+
273.8072
5.493e+007



13C10-Heptachlor

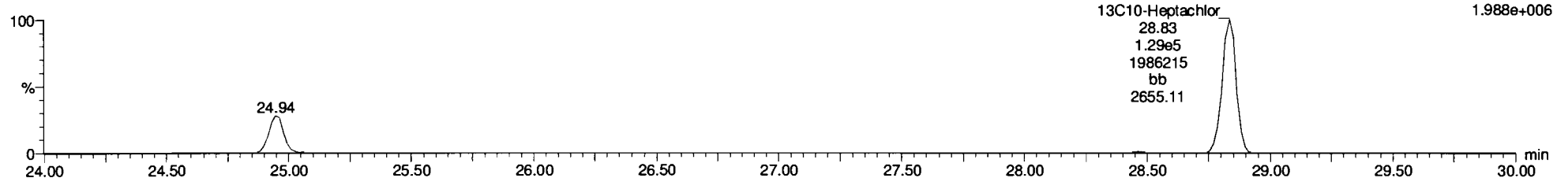
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

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

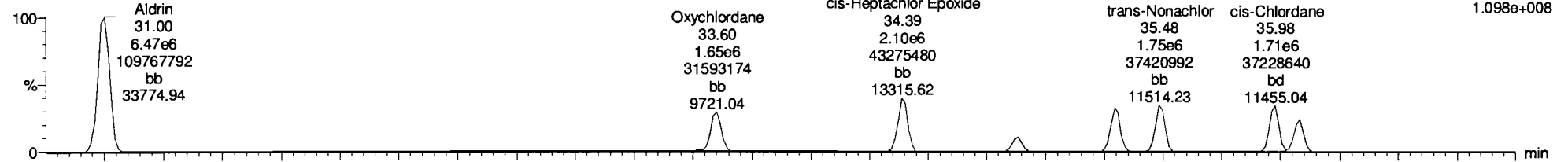
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Aldrin-EI

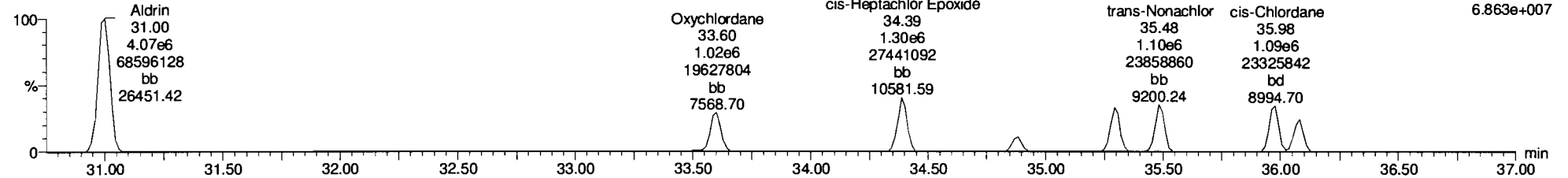
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F3:Voltage SIR,EI+
262.8569
1.098e+008



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

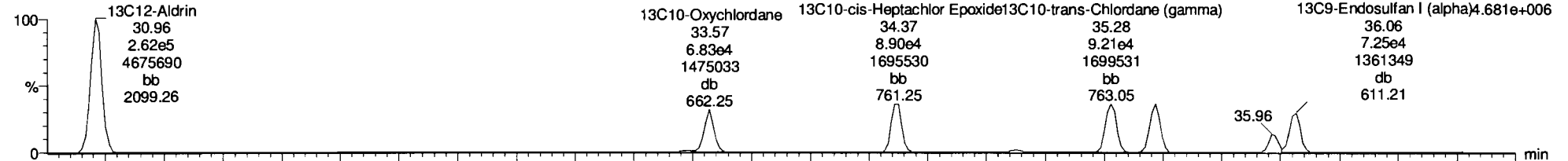
F3:Voltage SIR,EI+
264.8550
6.863e+007



Aldrin-EI-isotopes

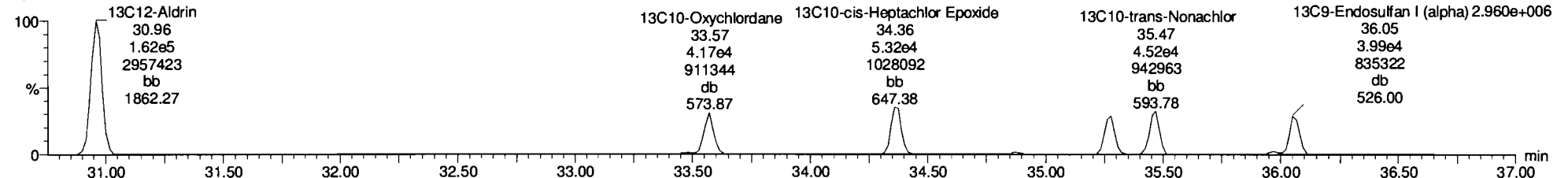
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

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

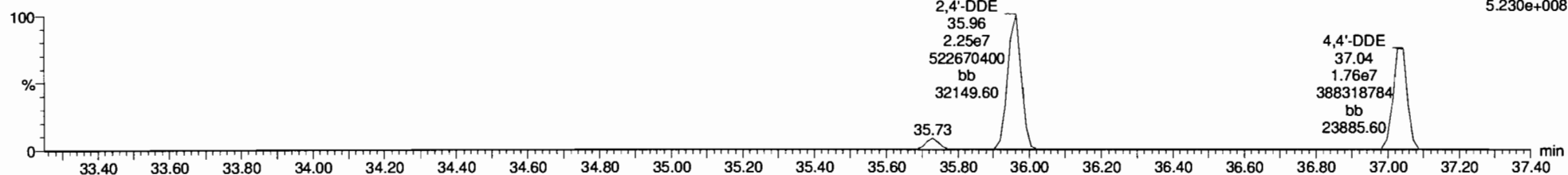
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F3:Voltage SIR,EI+
246.0003
7.040e+008



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

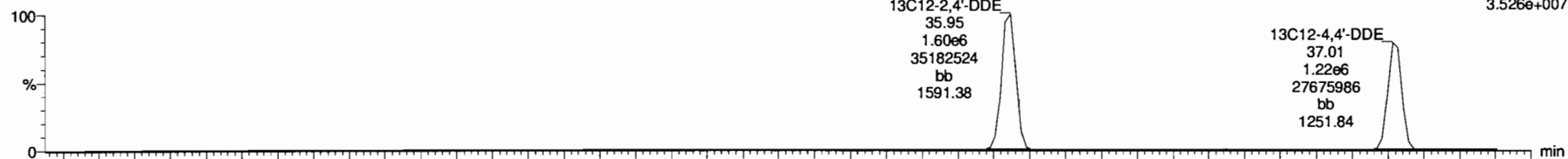
F3:Voltage SIR,EI+
247.9974
5.230e+008



DDE-isotopes

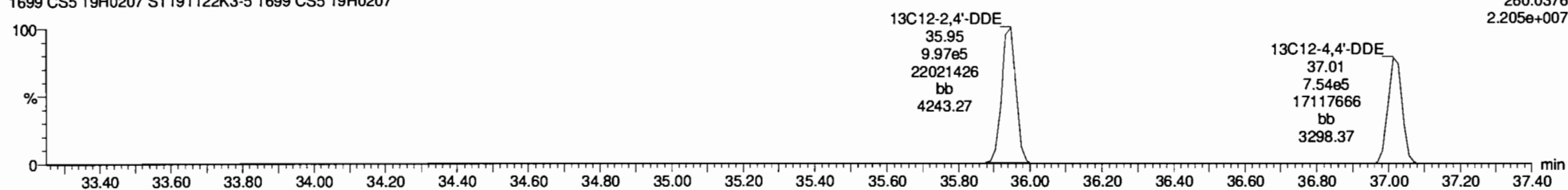
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

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

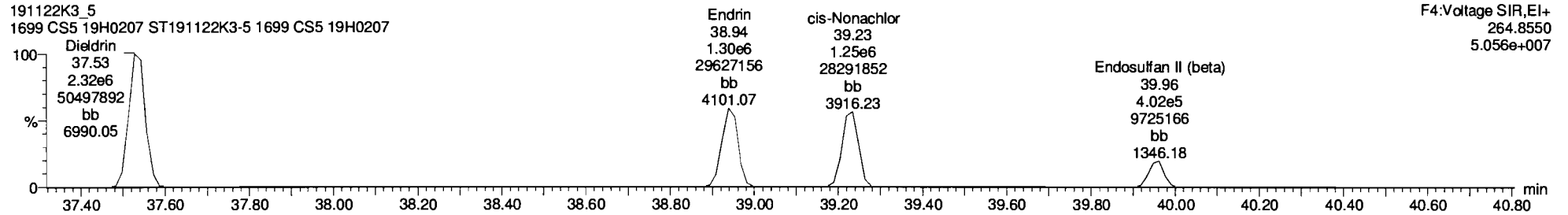
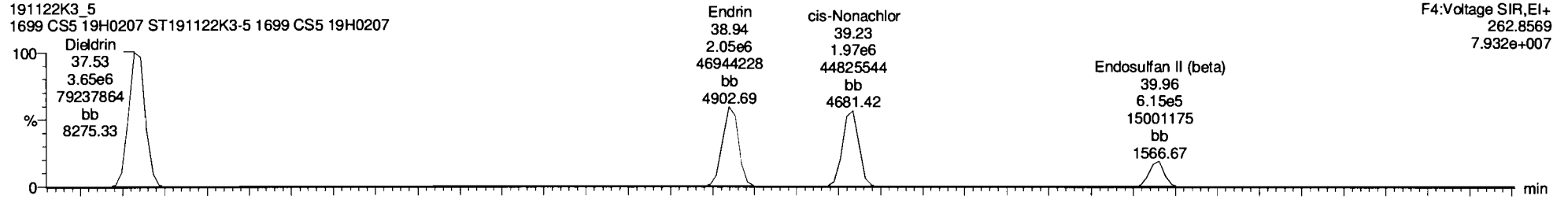


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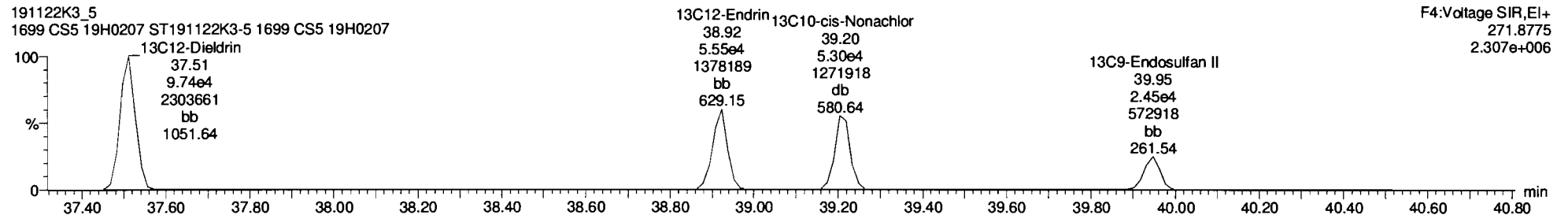
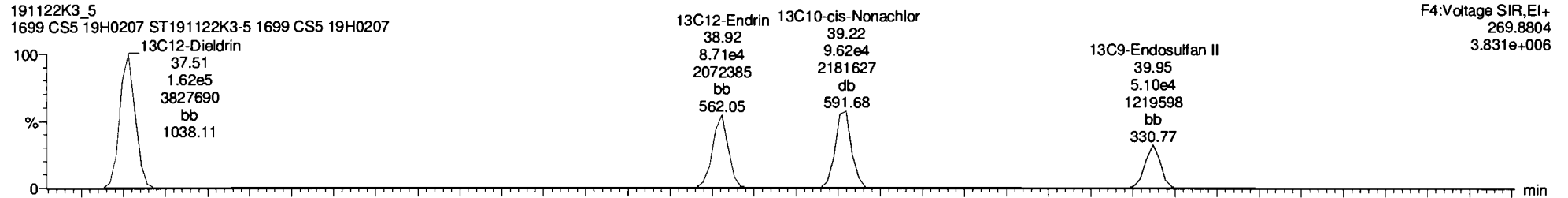
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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Dieldrin-EII



Dieldrin-EII-isotopes



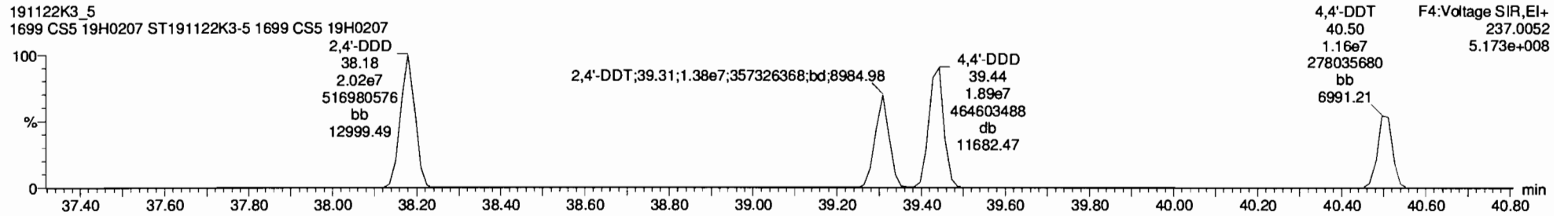
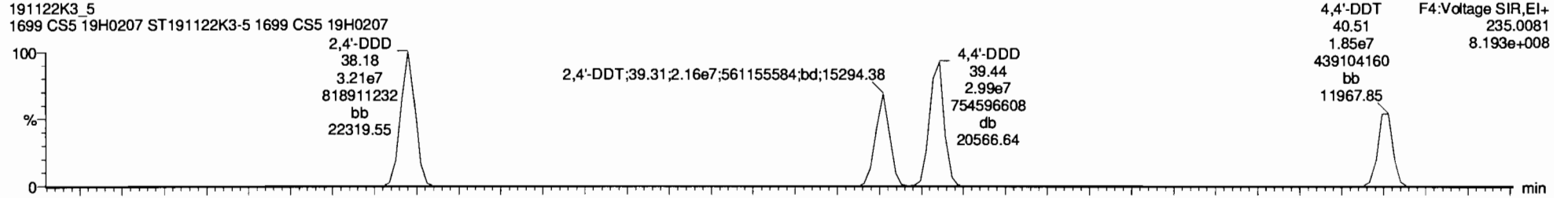
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

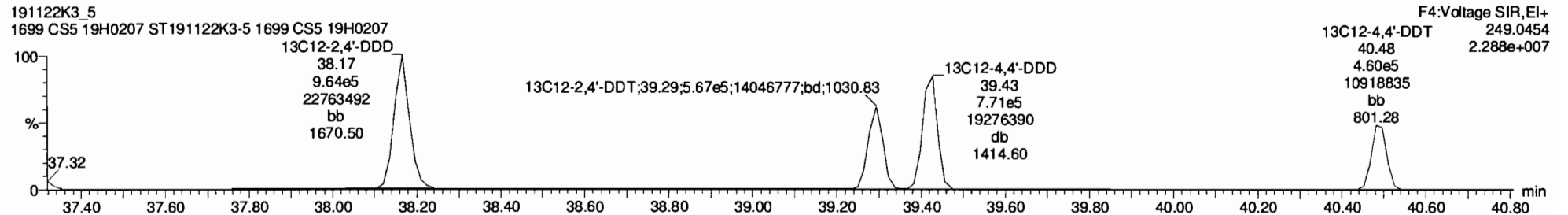
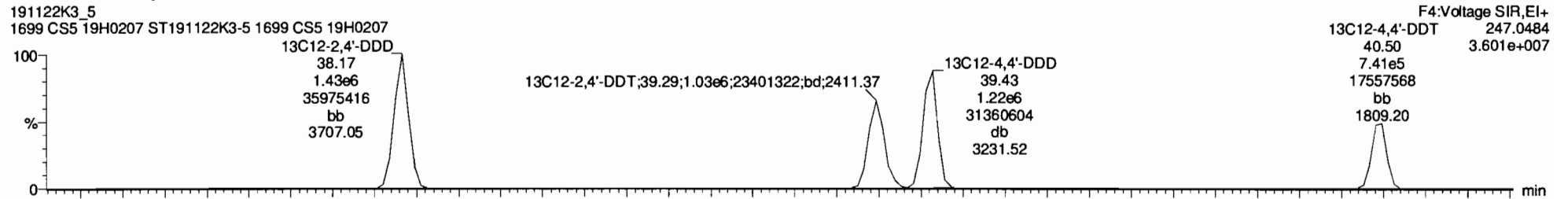
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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

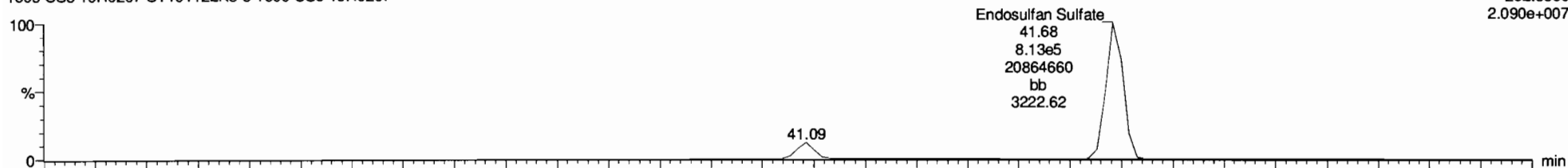
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

Endosulfan Sulfate

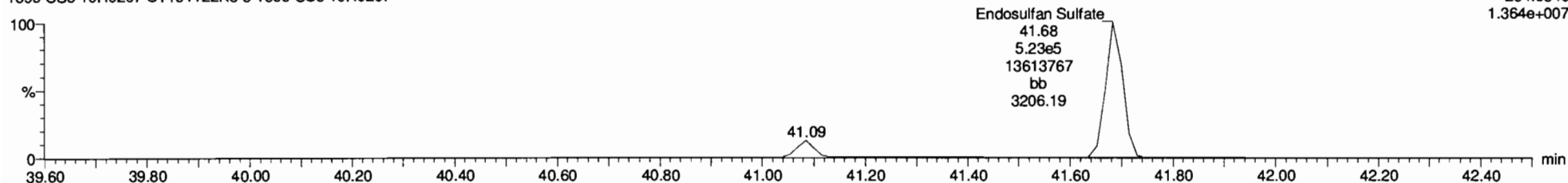
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F5:Voltage SIR,EI+
262.8569
2.090e+007



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

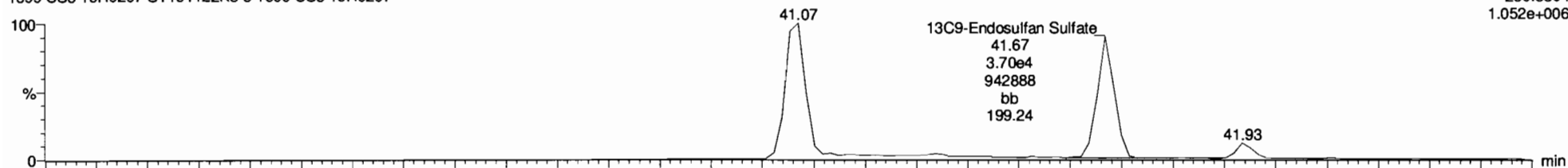
F5:Voltage SIR,EI+
264.8540
1.364e+007



13C9-Endosulfan Sulfate

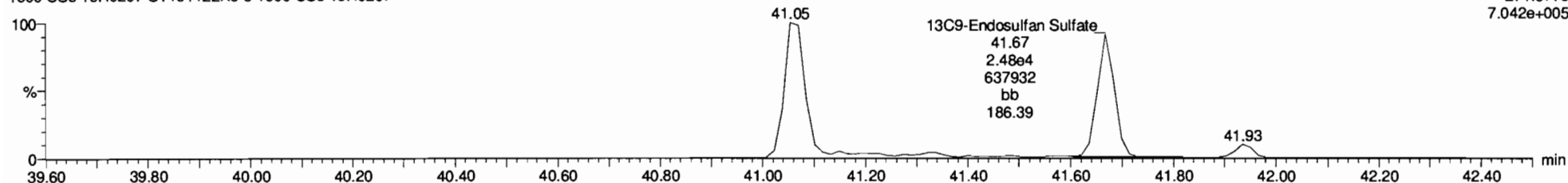
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

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

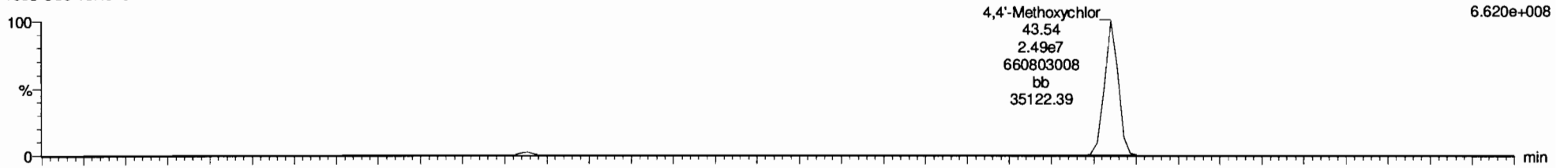
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

4,4'-Methoxychlor

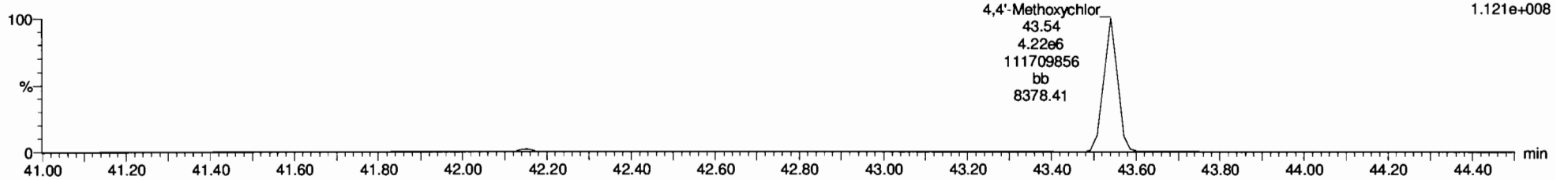
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F5:Voltage SIR,El+
227.1072
6.620e+008



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

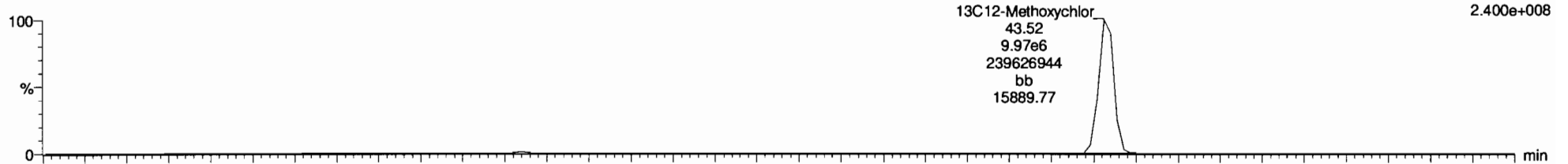
F5:Voltage SIR,El+
228.1106
1.121e+008



13C12-Methoxychlor

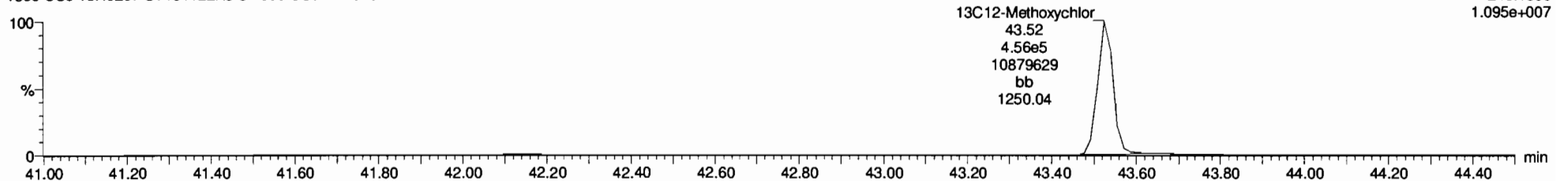
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

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

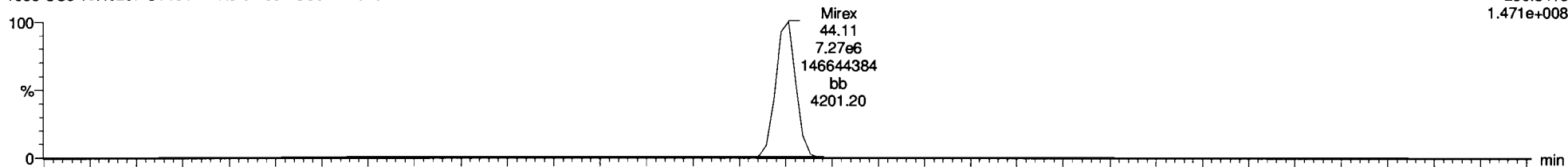
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

Mirex

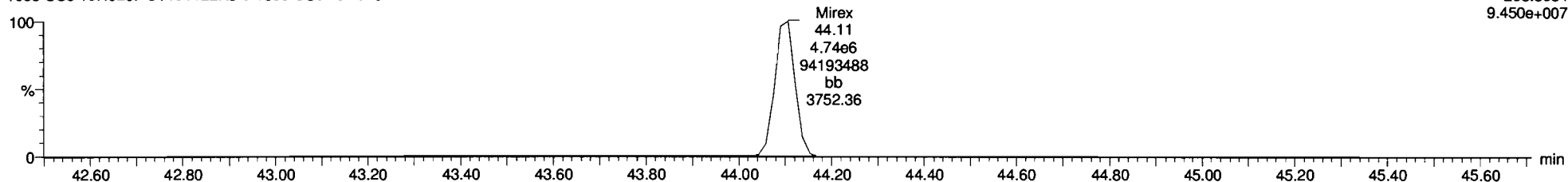
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F5:Voltage SIR,EI+
236.8413
1.471e+008



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

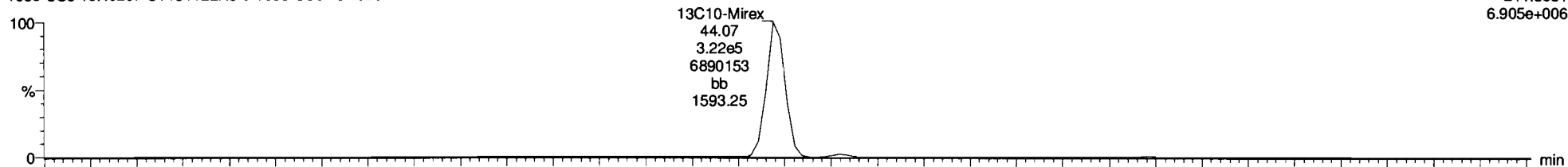
F5:Voltage SIR,EI+
238.8384
9.450e+007



13C10-Mirex

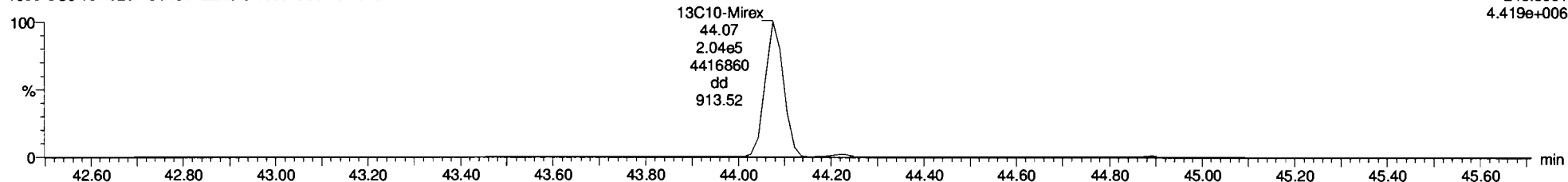
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

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



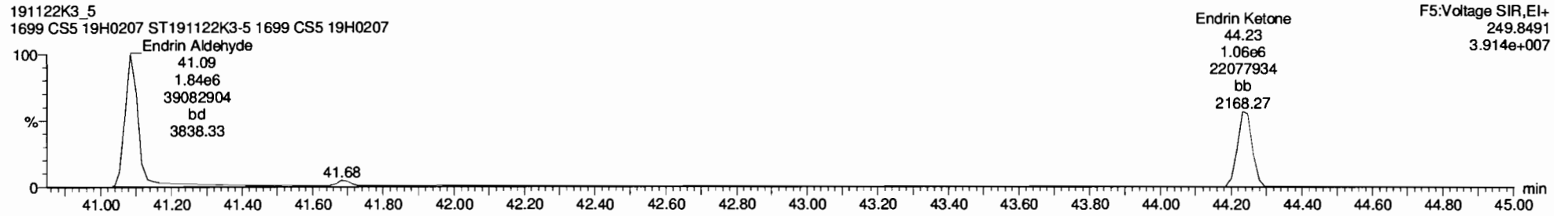
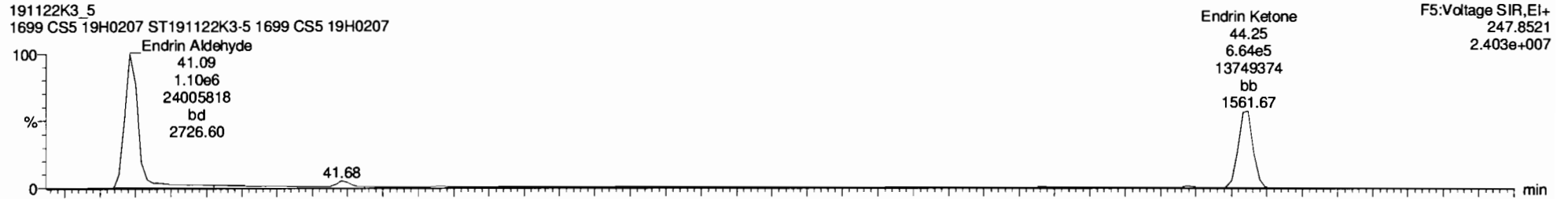
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

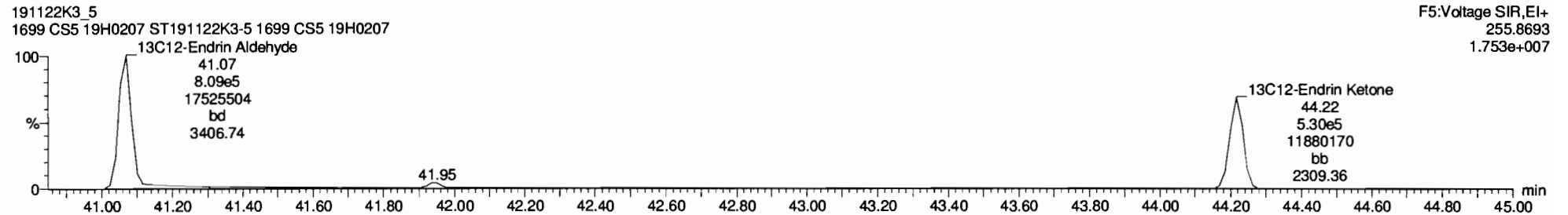
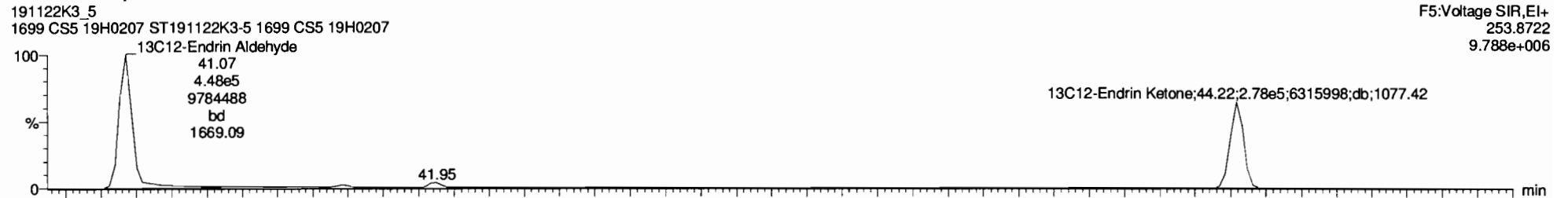
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

EA-EK

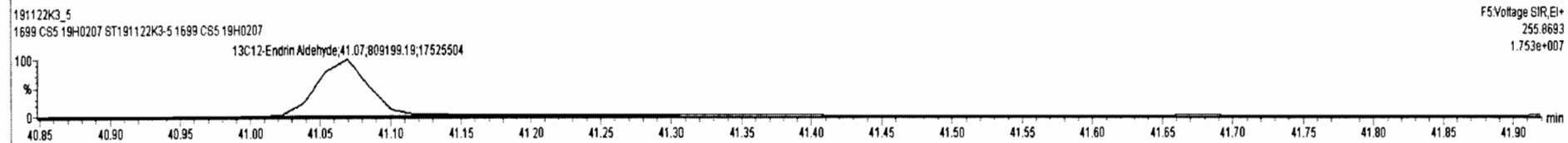
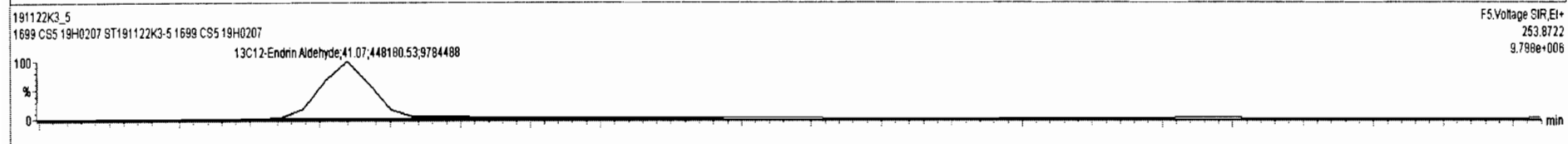
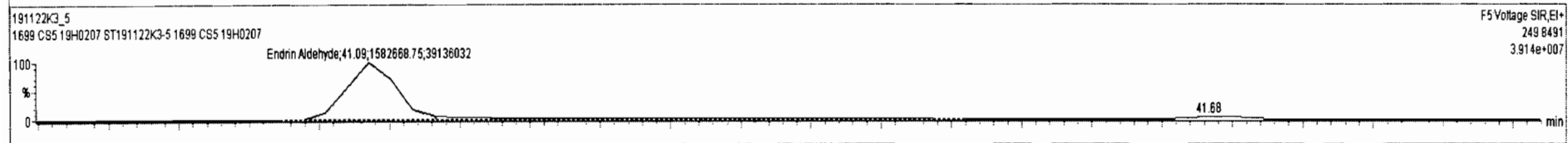
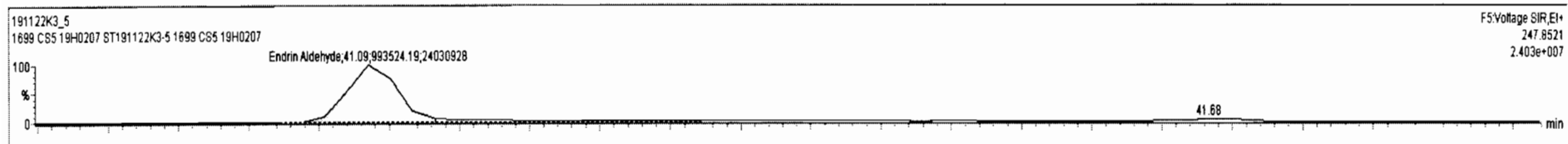


EA-EK-isotopes



191122K3_5 - ST191122K3 &F 1699 CS5 19H0207 - 1699 CS5 19H0207

#	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	0.0282	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

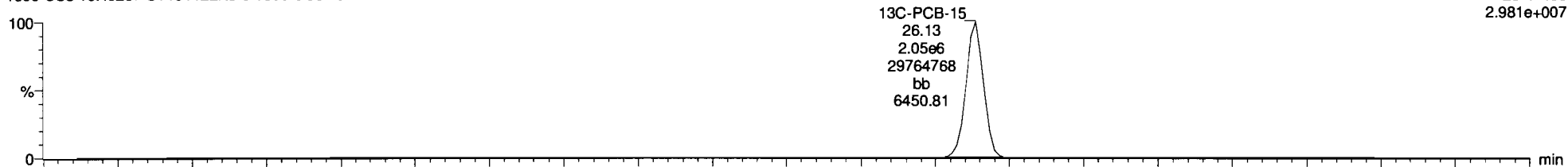
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

13C-PCB-15

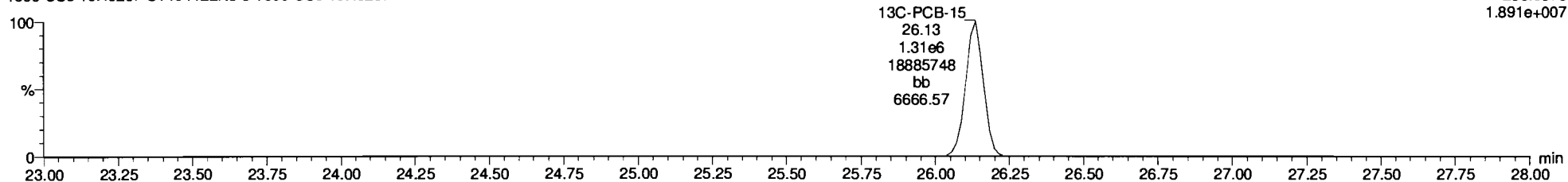
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F2:Voltage SIR,EI+
234.0406
2.981e+007



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

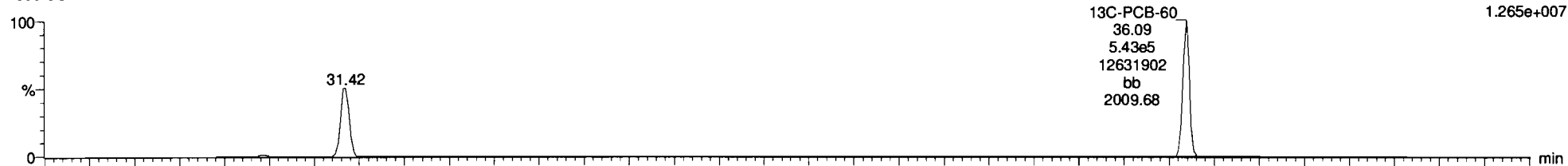
F2:Voltage SIR,EI+
236.0376
1.891e+007



13C-PCB-60

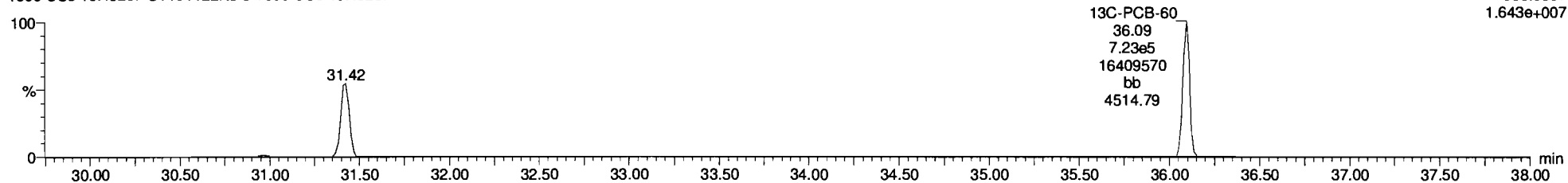
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

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

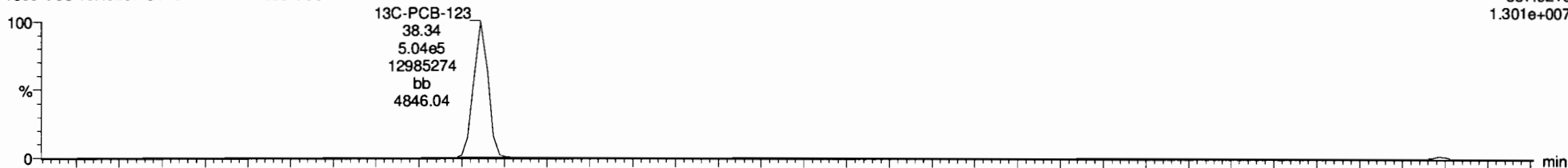
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

13C-PCB-123

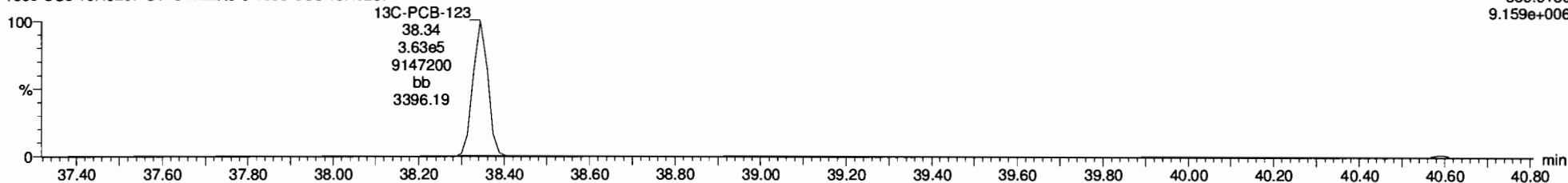
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F4:Voltage SIR,EI+
337.9210
1.301e+007



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

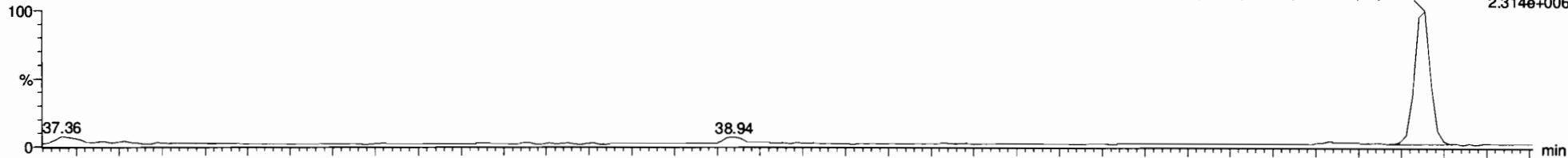
F4:Voltage SIR,EI+
339.9180
9.159e+006



13C-PARLAR 39

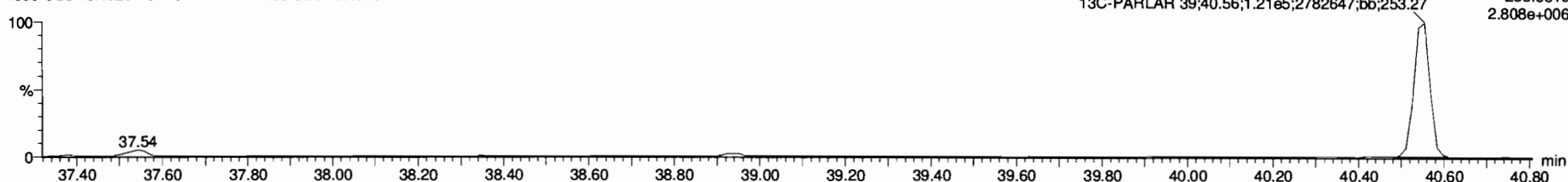
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

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



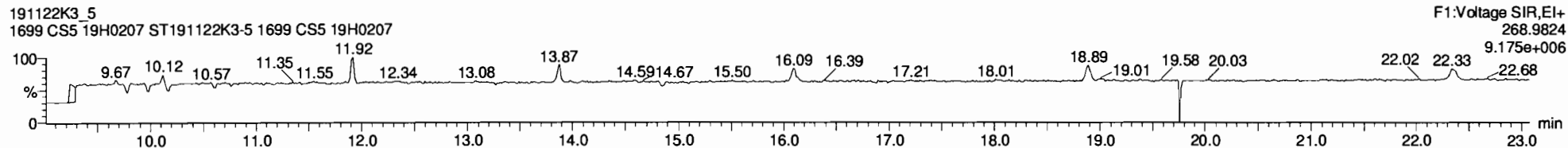
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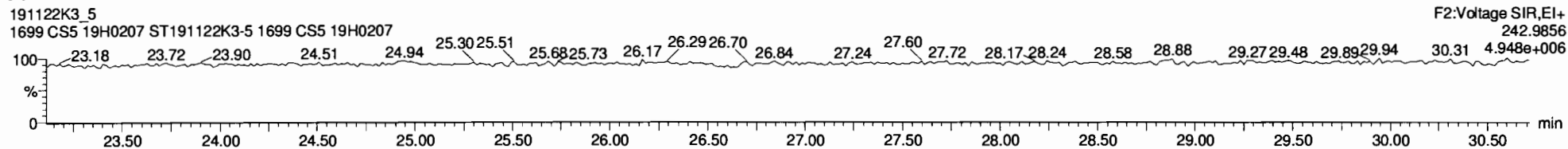
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

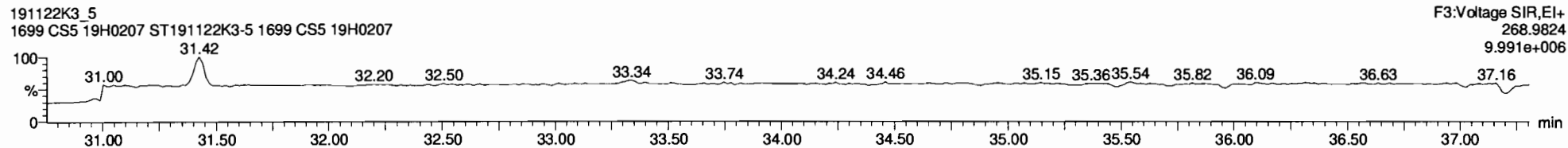
PFK1



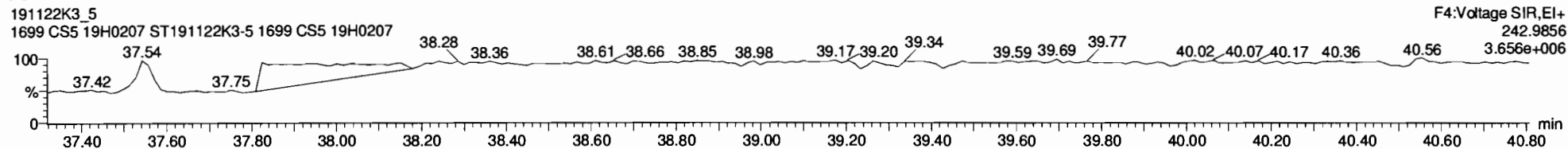
PFK2



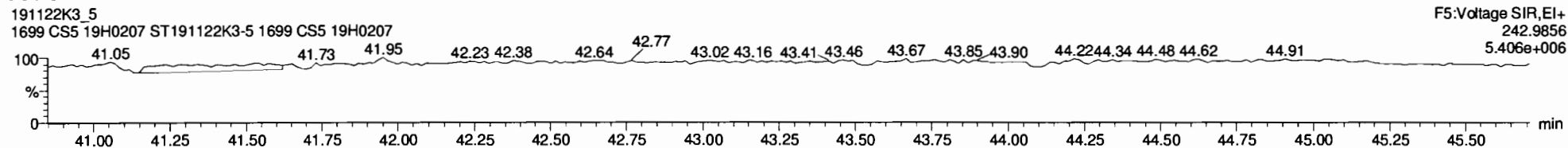
PFK3



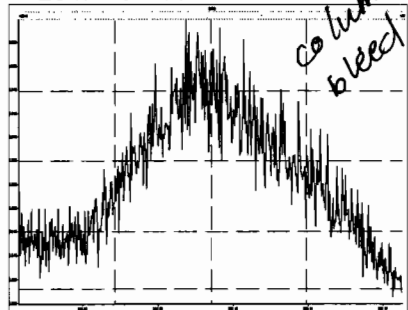
PFK4



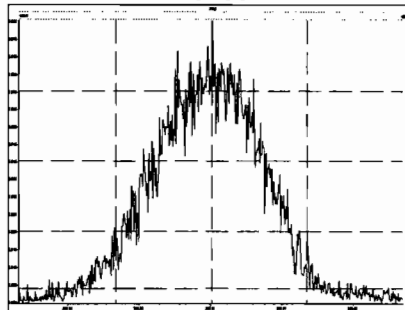
PFK5



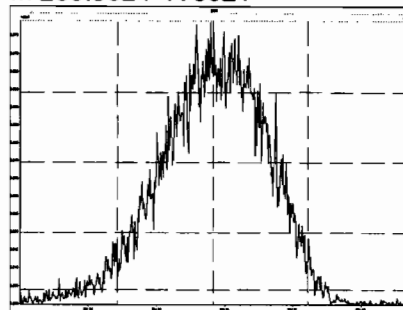
M 254.9856 R 0



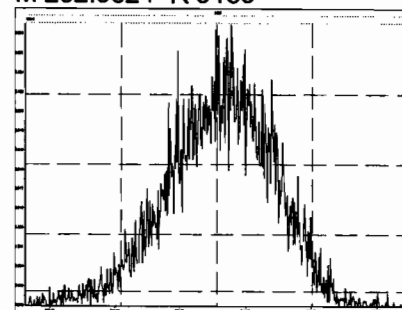
M 268.9824 R 8083



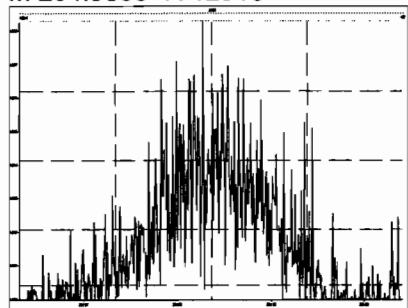
M 280.9824 R 8521



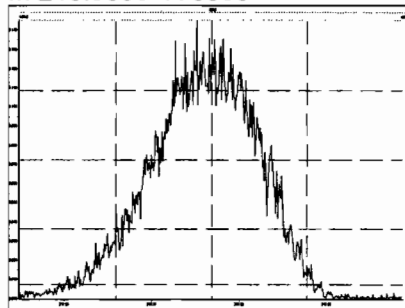
M 292.9824 R 9159



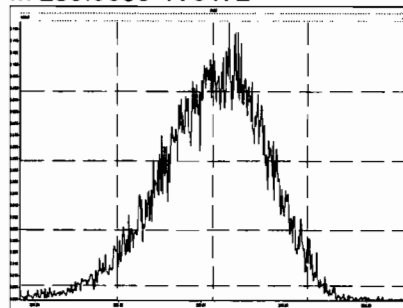
M 204.9888 R 12915



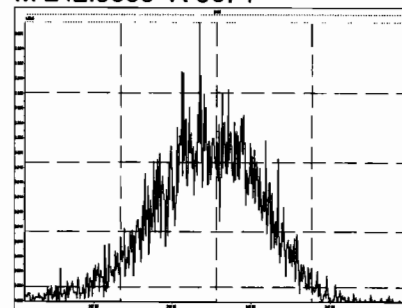
M 218.9856 R 8038



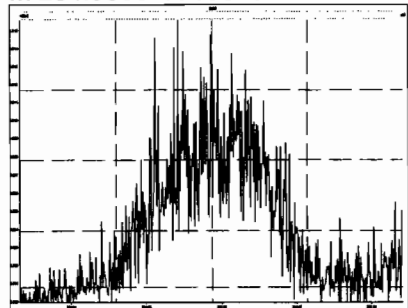
M 230.9856 R 8172



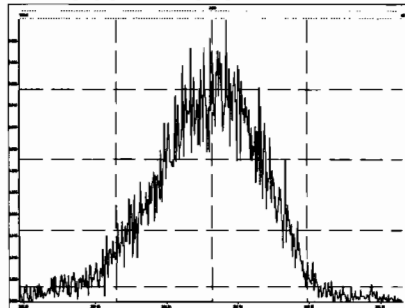
M 242.9856 R 8674



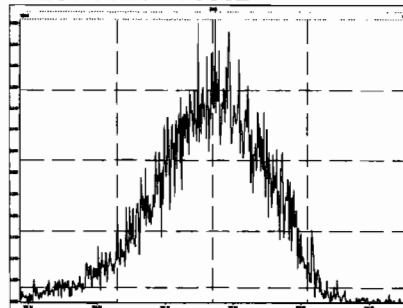
M 254.9856 R 10629



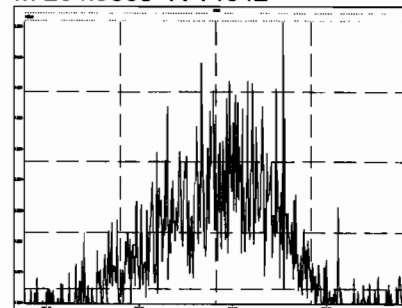
M 268.9824 R 8680



M 280.9824 R 8562

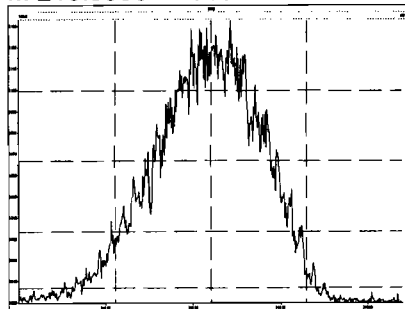


M 204.9888 R 14542

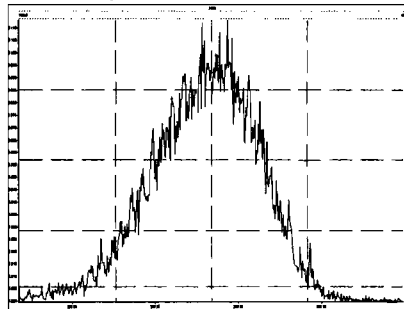


Printed: Saturday, November 23, 2019 08:37:31 Pacific Standard Time

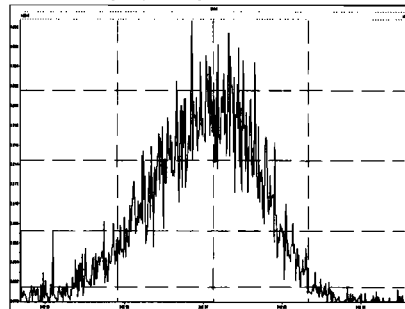
M 218.9856 R 8182



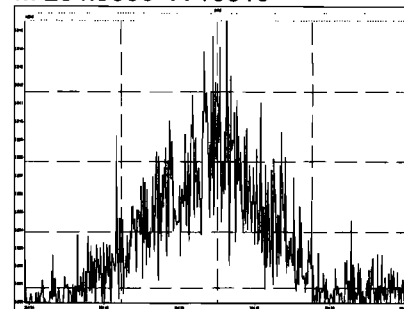
M 230.9856 R 8417



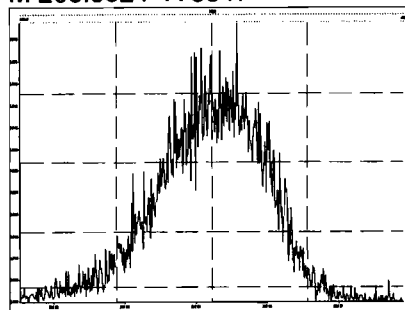
M 242.9856 R 8941



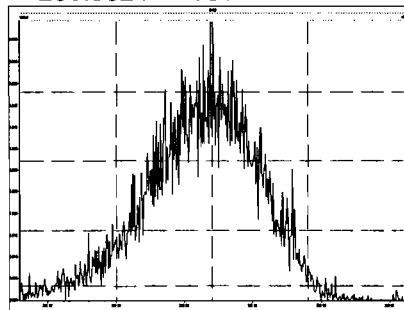
M 254.9856 R 10610



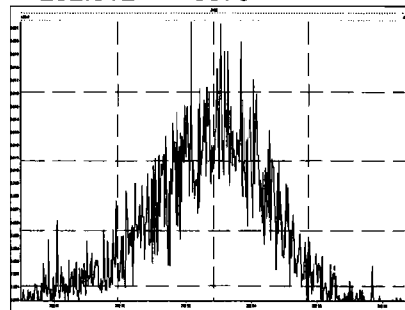
M 268.9824 R 8547



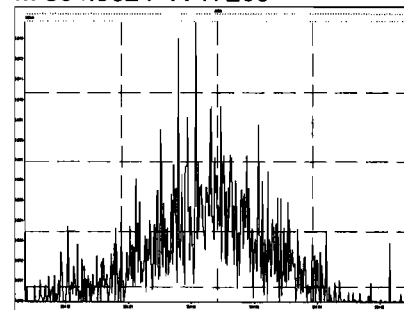
M 280.9824 R 8564



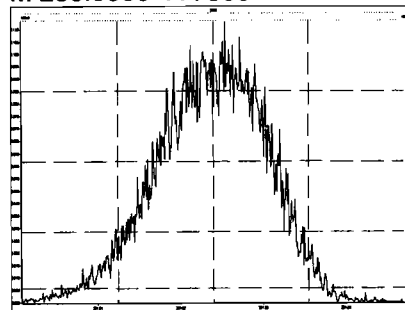
M 292.9824 R 9978



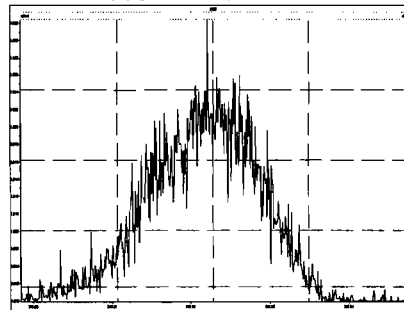
M 304.9824 R 17250



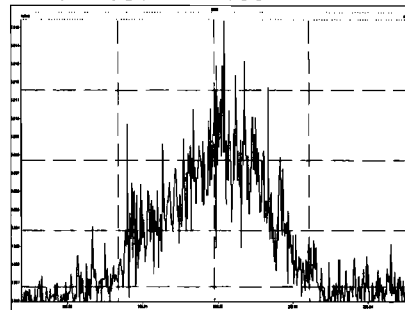
M 230.9856 R 7900



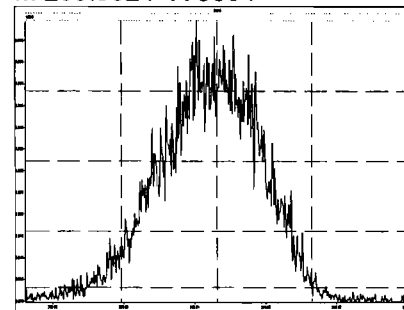
M 242.9856 R 9260



M 254.9856 R 10600

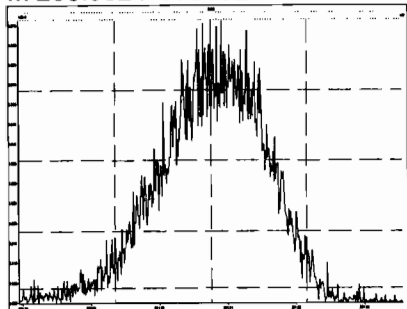


M 268.9824 R 8504

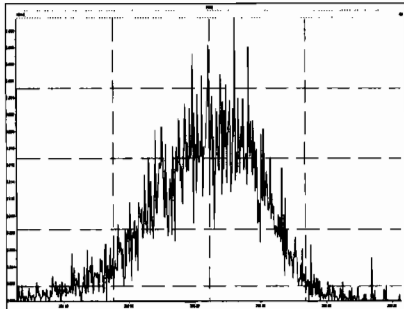


Printed: Saturday, November 23, 2019 08:37:31 Pacific Standard Time

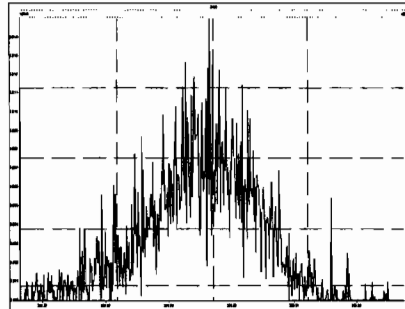
M 280.9824 R 8532



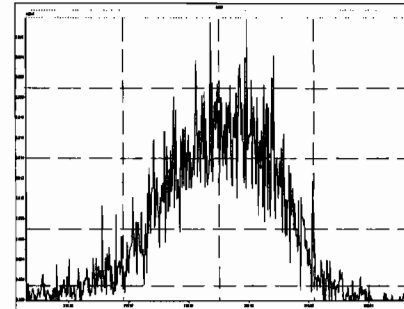
M 292.9824 R 9765



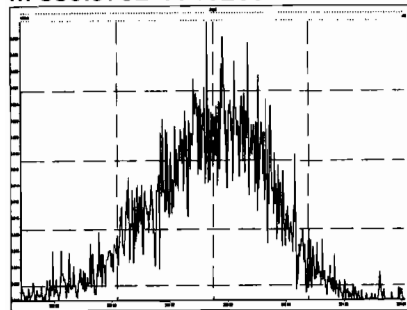
M 304.9824 R 12191



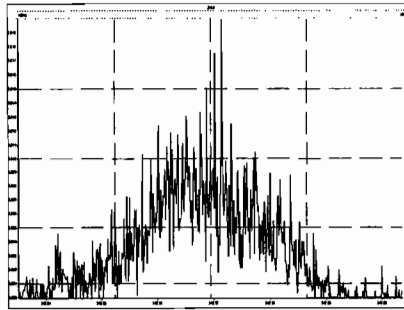
M 318.9792 R 9225



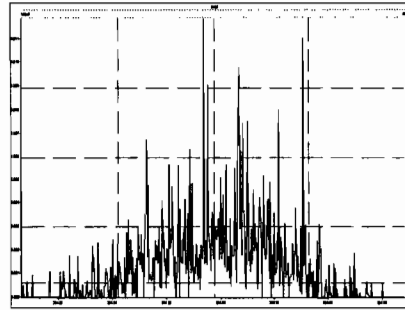
M 330.9792 R 10260



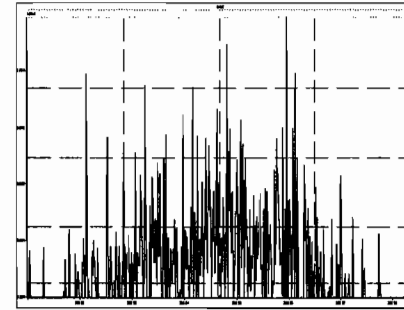
M 342.9792 R 11078



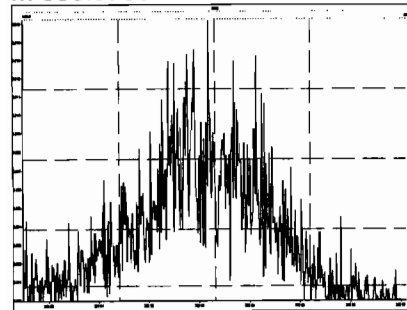
M 354.9792 R 34950



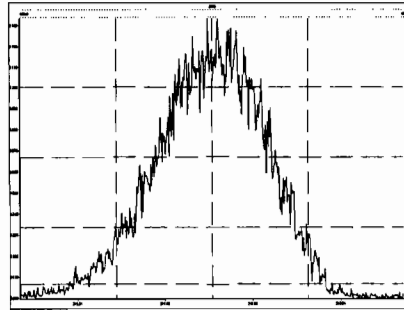
M 366.9792 R 458333



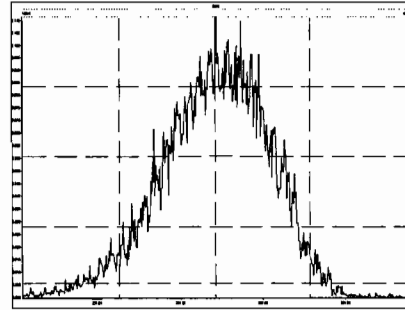
M 380.9760 R 9711



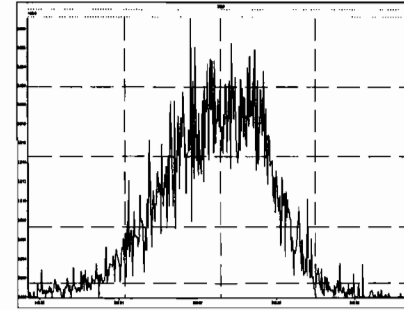
M 218.9856 R 8116



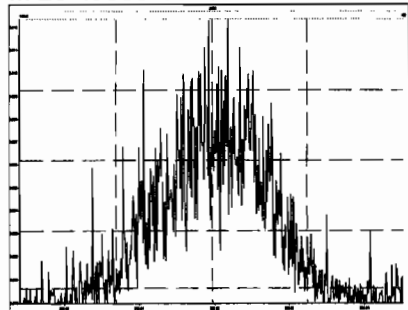
M 230.9856 R 8225



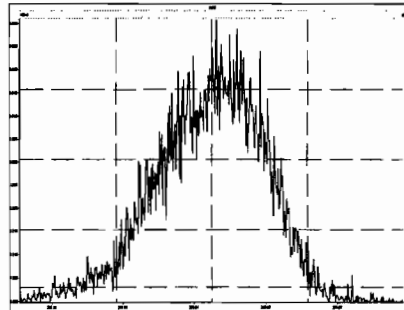
M 242.9856 R 8880



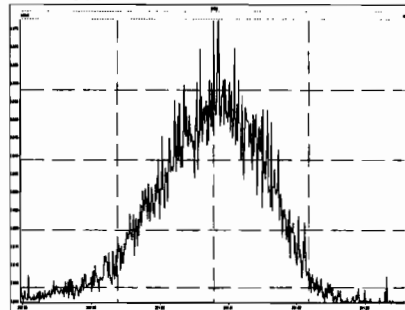
M 254.9856 R 10759



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				

$$\left(\frac{EA + EK}{\text{Endrin}} \right) \times 100\% = 8.4\%$$

$$\left(\frac{4,4'-DDD}{4,4'-DDT} \right) \times 100\% = 3.1\%$$

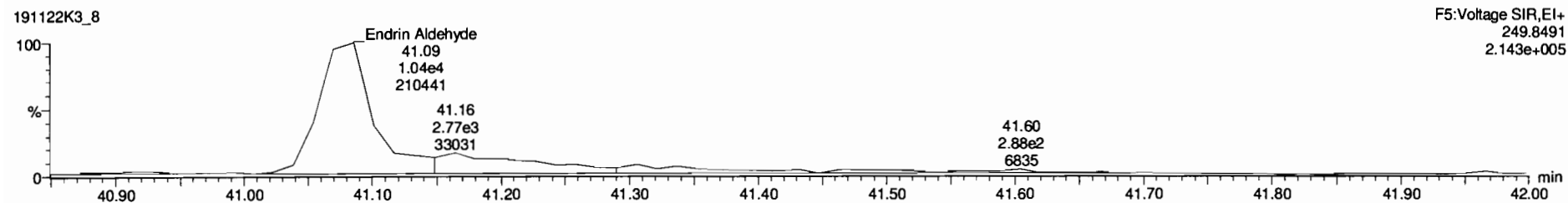
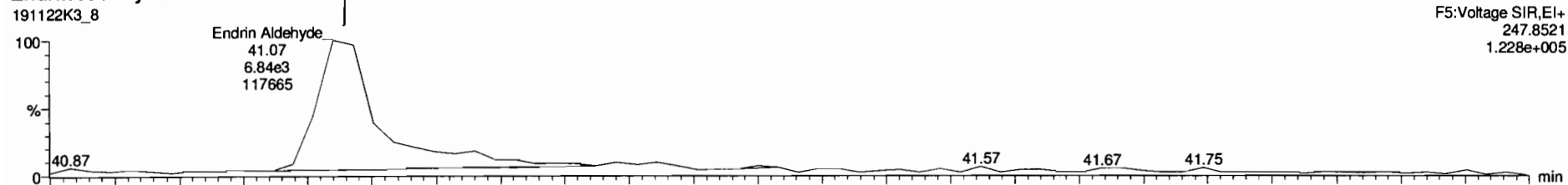
Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:58:41 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:59:12 Pacific Standard Time

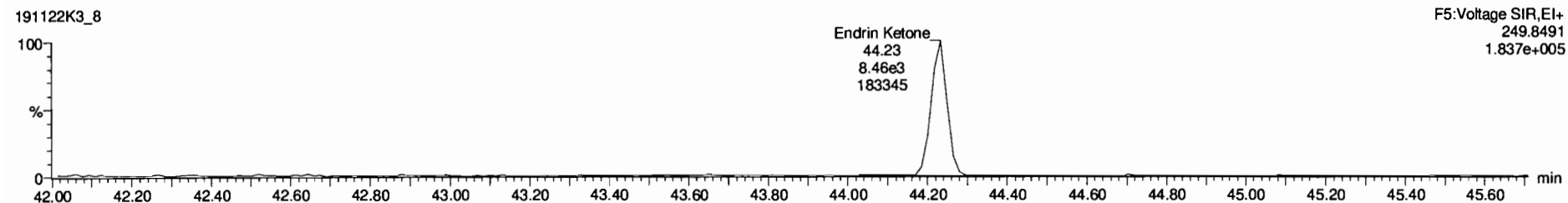
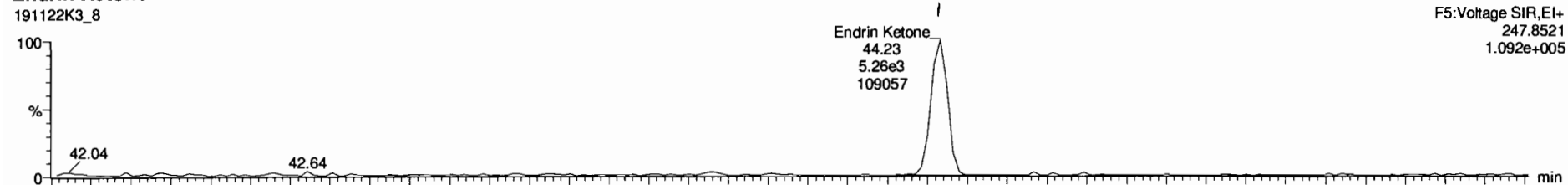
Method: U:\VG11.PRO\MethDB\1699_GC-break.mdb 22 Nov 2019 15:38:12
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_8, Date: 22-Nov-2019, Time: 21:45:34, ID: GC191122K3-1 GC BREAK, Description: GC BREAK

Endrin Aldehyde



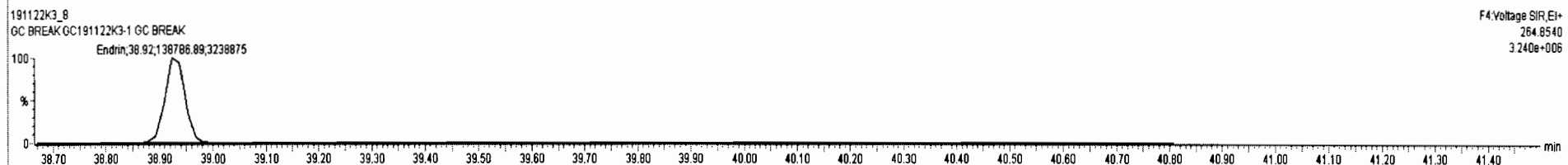
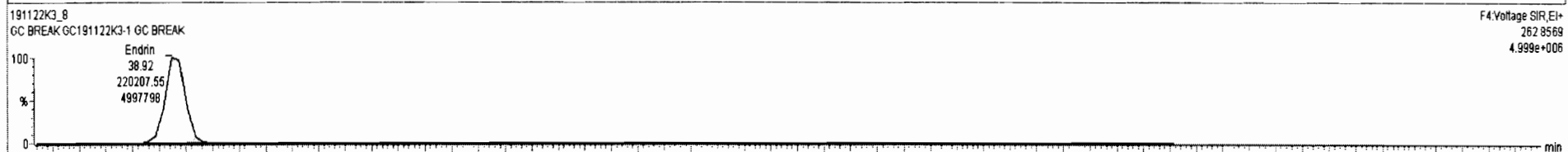
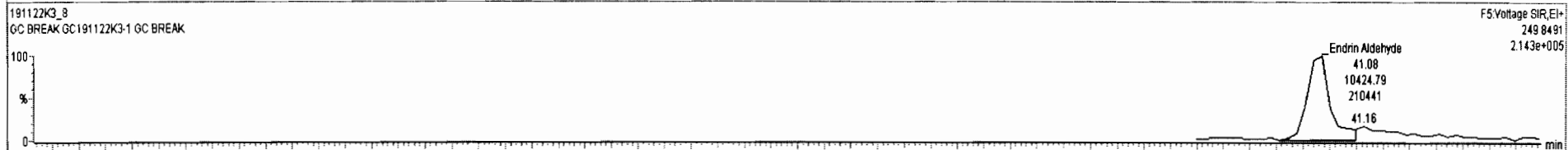
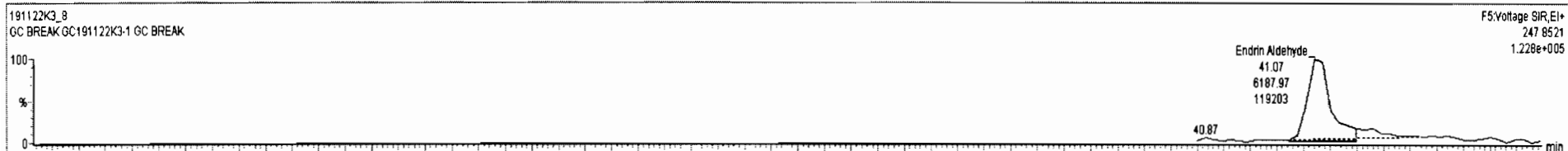
Endrin Ketone





191122K3_8 GC BREAK GC191122K3-1 GC BREAK GC191122K3-1 GC BREAK

#	Name	Retap	RA	nly	RFI	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

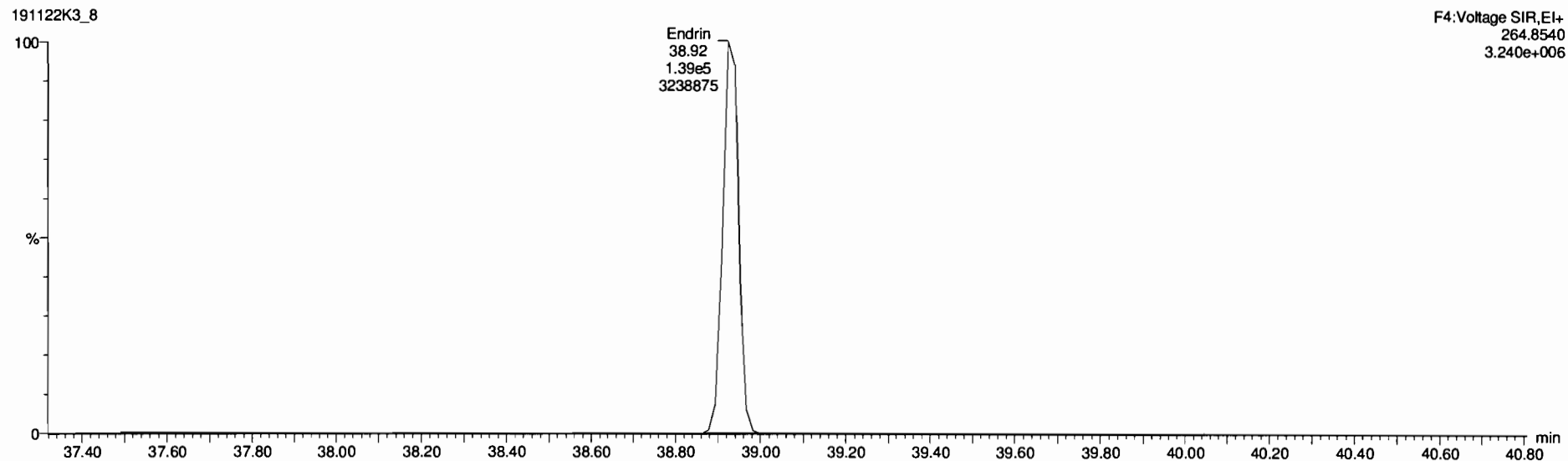
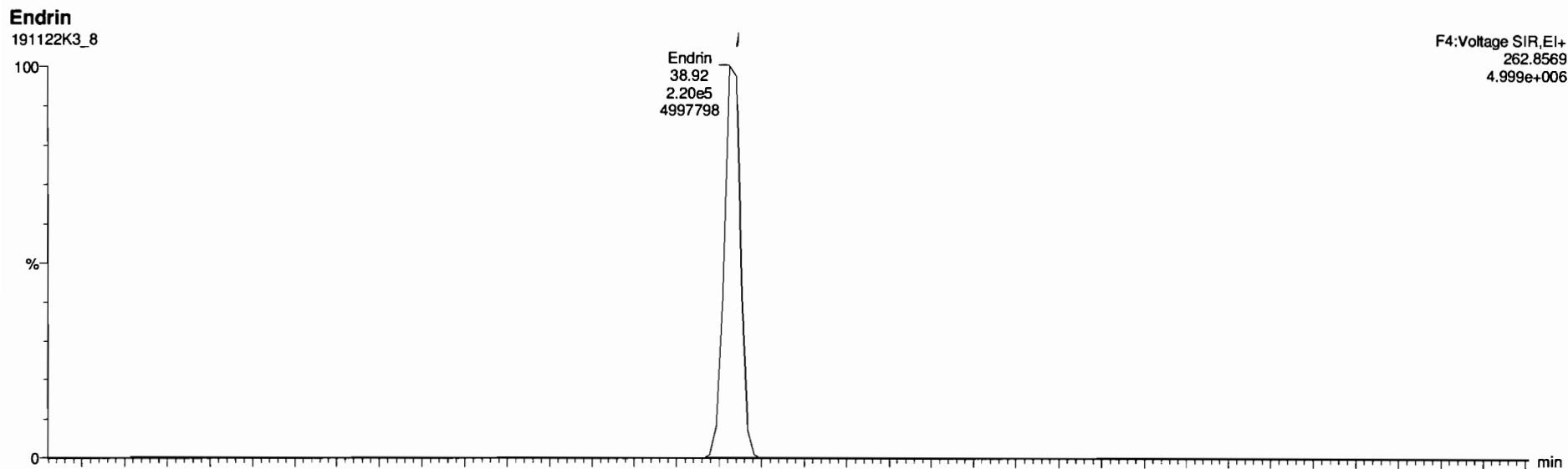
191122K3_8

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

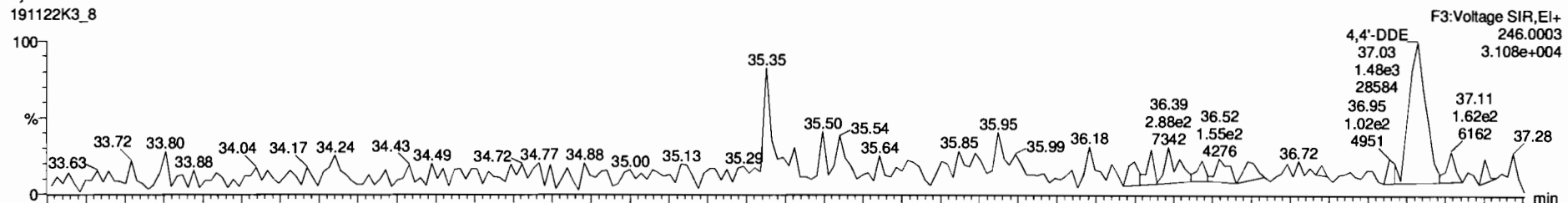
Last Altered: Saturday, November 23, 2019 13:58:41 Pacific Standard Time

Printed: Saturday, November 23, 2019 13:59:12 Pacific Standard Time

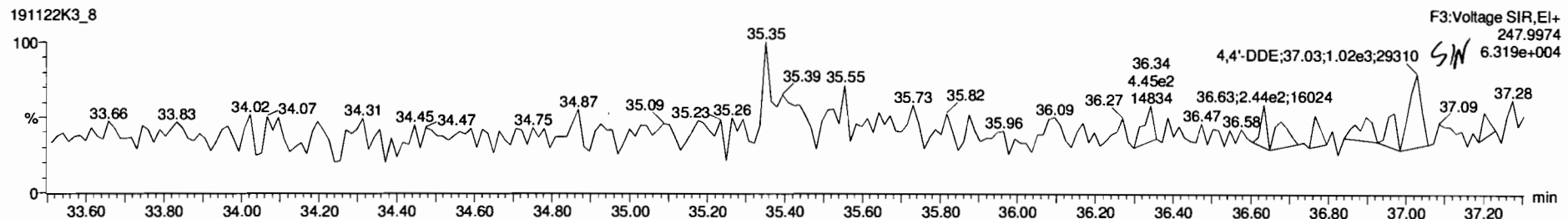
Name: 191122K3_8, Date: 22-Nov-2019, Time: 21:45:34, ID: GC191122K3-1 GC BREAK, Description: GC BREAK

4,4'-DDE

191122K3_8

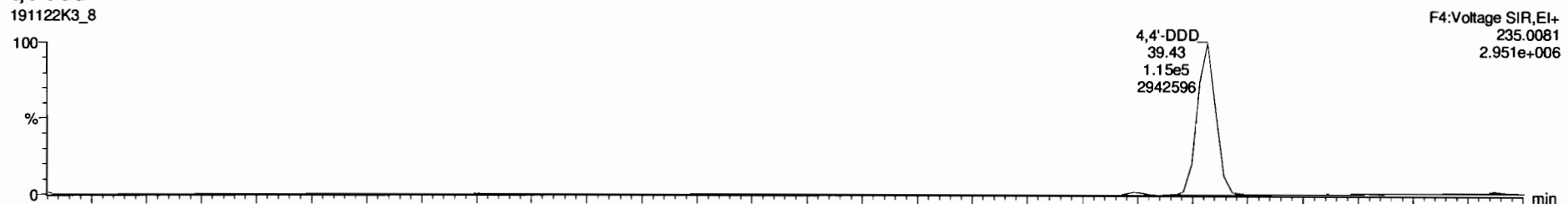


191122K3_8

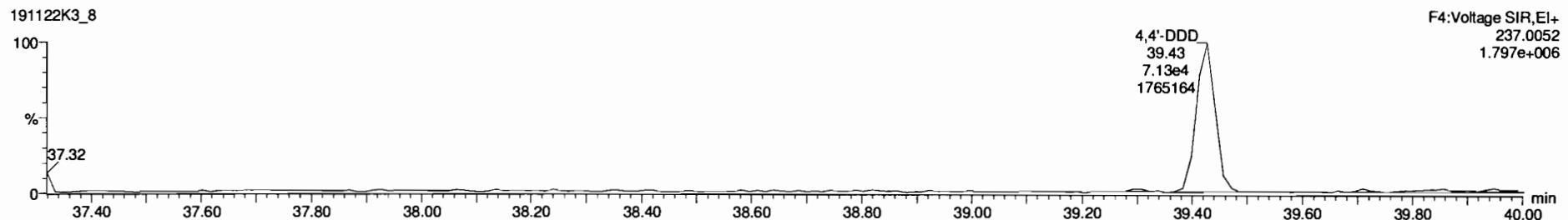


4,4'-DDD

191122K3_8

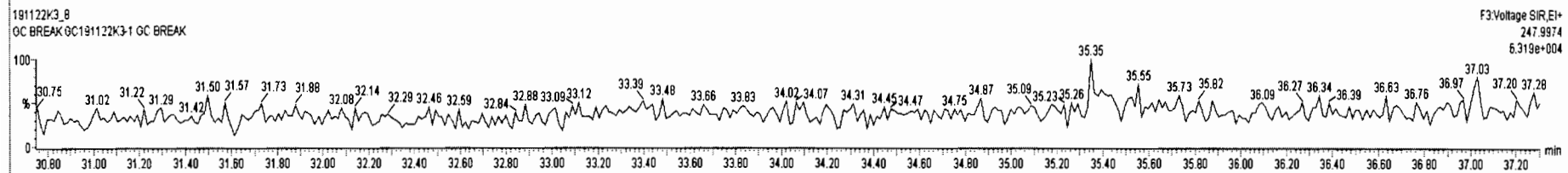
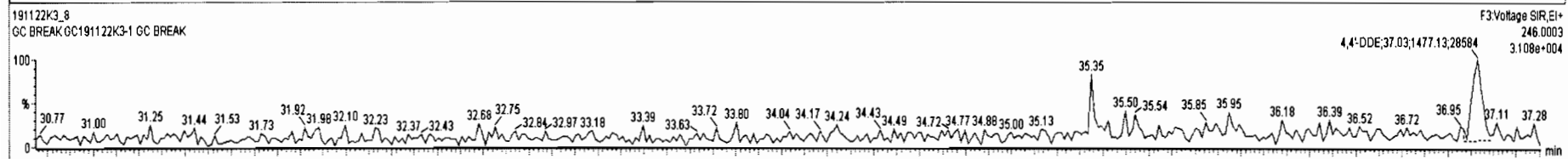
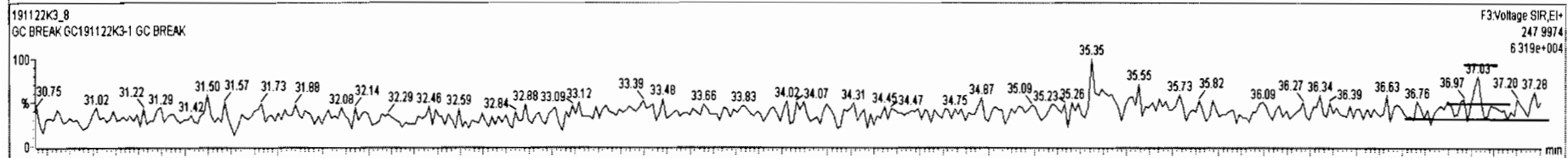
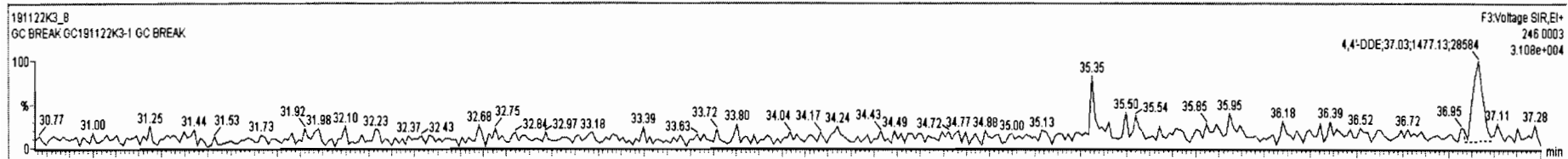


191122K3_8



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

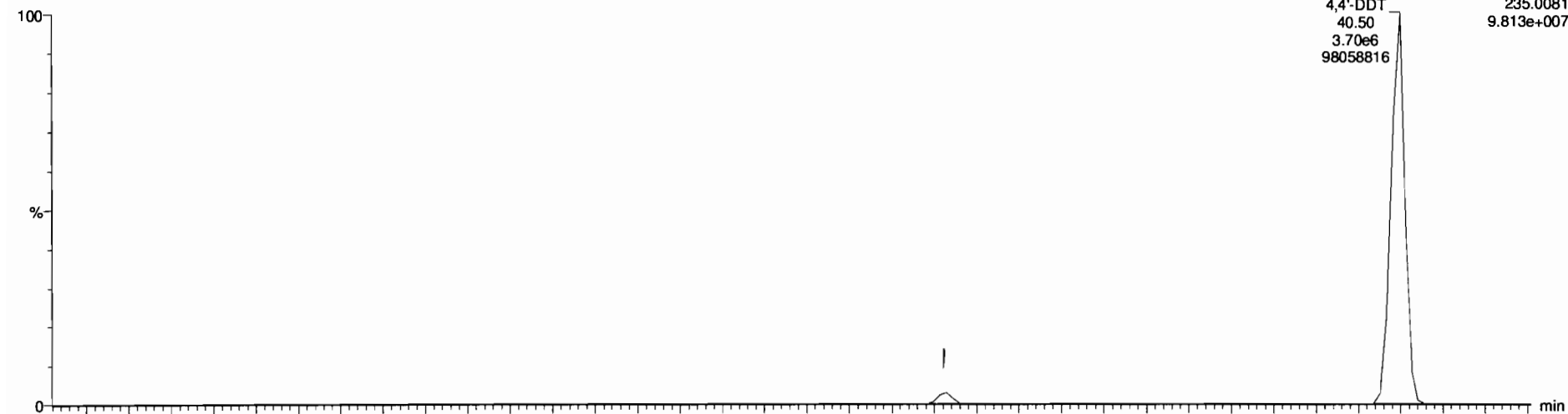
Last Altered: Saturday, November 23, 2019 13:58:41 Pacific Standard Time

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

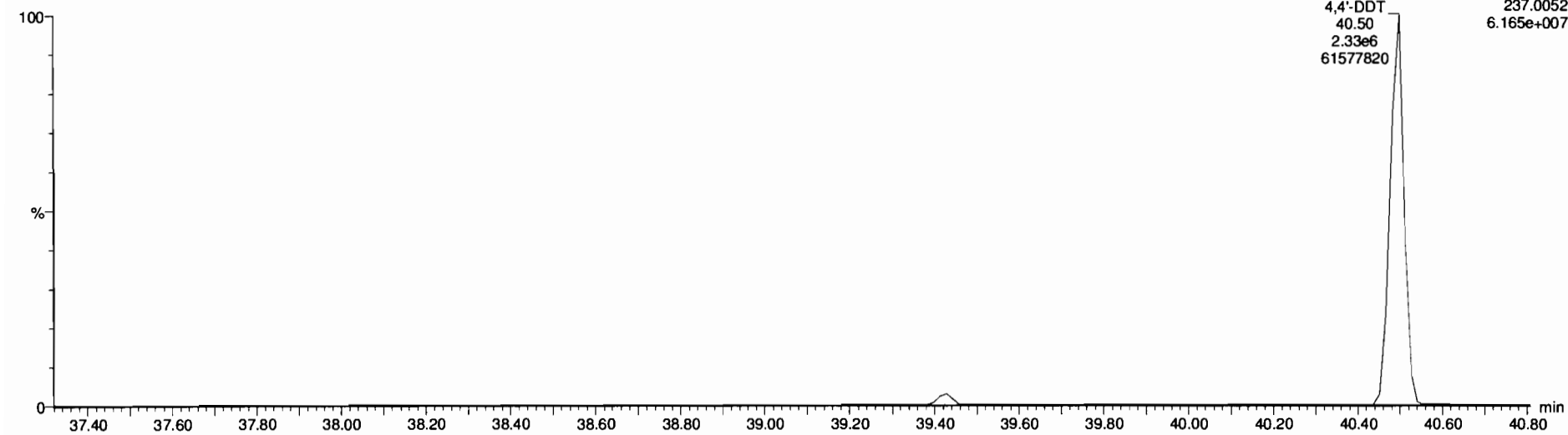
4,4'-DDT

191122K3_8



F4:Voltage SIR,EI+
235.0081
9.813e+007

191122K3_8



F4:Voltage SIR,EI+
237.0052
6.165e+007

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	106.75-125%	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	

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

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	

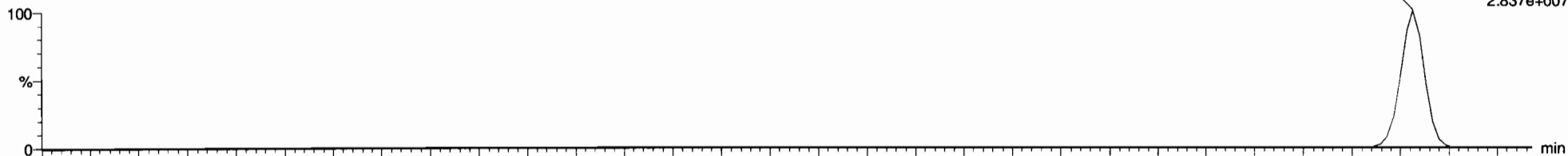
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

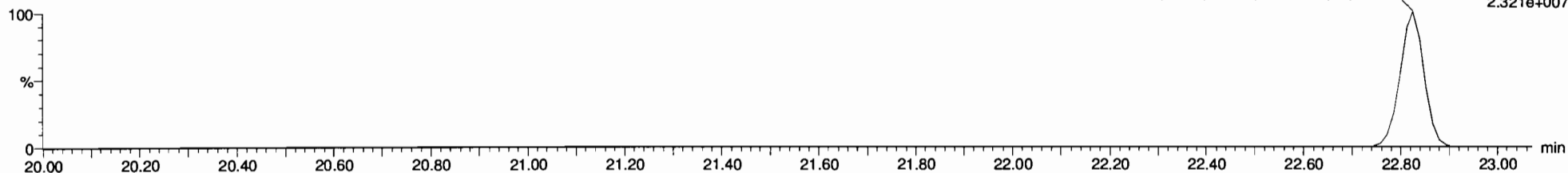
Hexachlorobenzene

191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208



F1:Voltage SIR,EI+
283.8102
2.837e+007

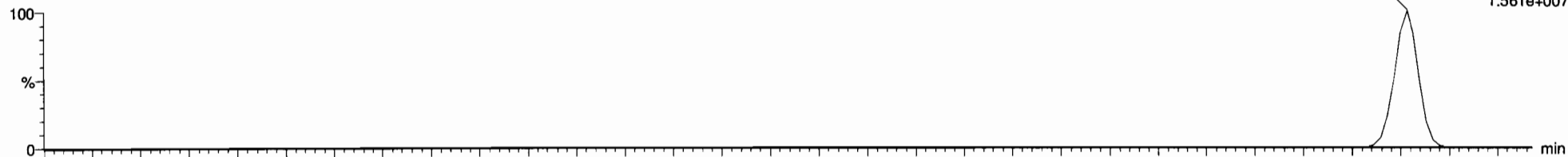
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208



F1:Voltage SIR,EI+
285.8072
2.321e+007

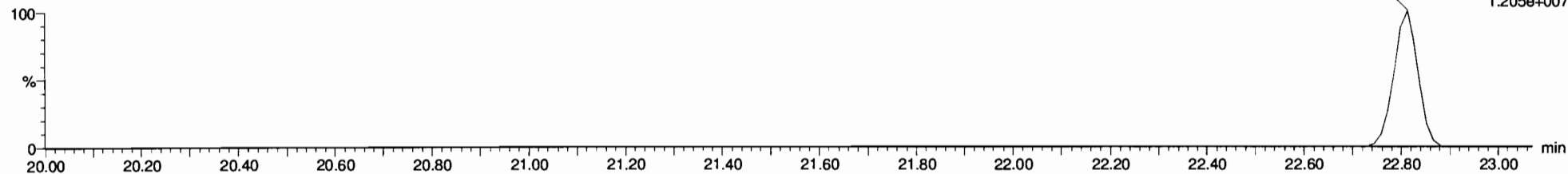
13C6-Hexachlorobenzene

191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208



F1:Voltage SIR,EI+
289.8303
1.561e+007

191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208



F1:Voltage SIR,EI+
291.8273
1.205e+007

Dataset: Untitled

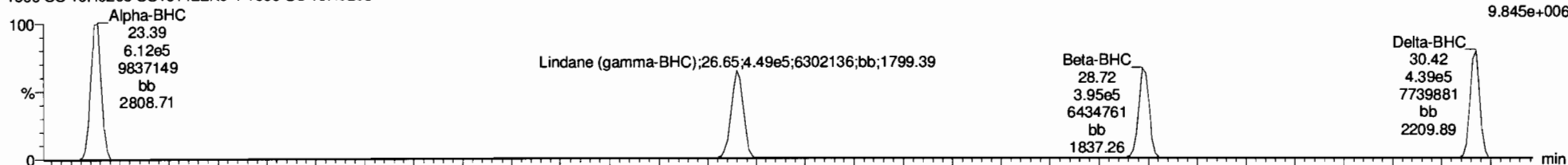
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

BHC Totals

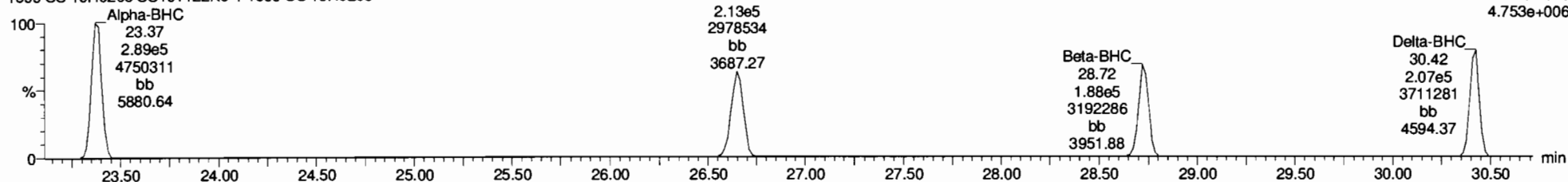
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F2:Voltage SIR,EI+
218.9116
9.845e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

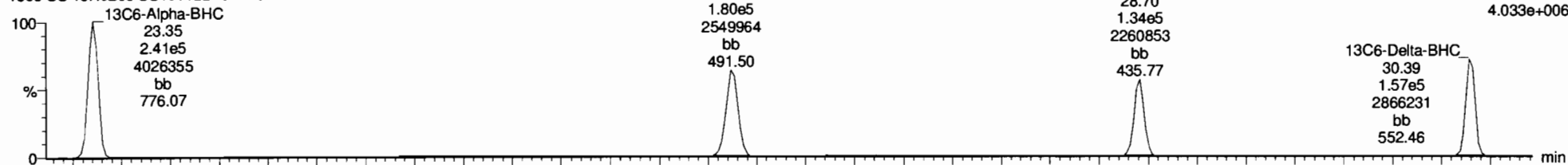
F2:Voltage SIR,EI+
220.9086
4.753e+006



BHC-isotopes

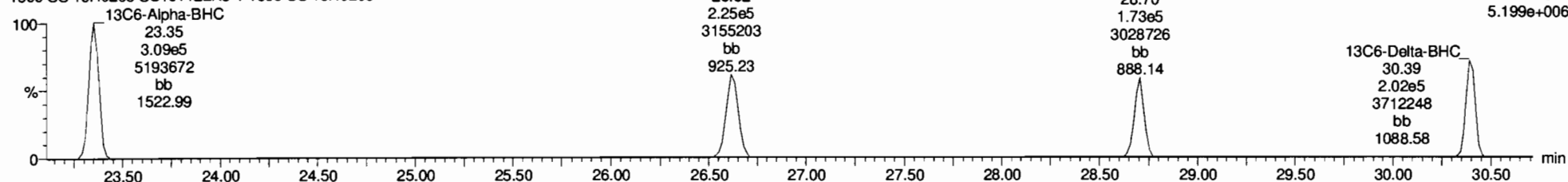
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

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

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

Heptachlor

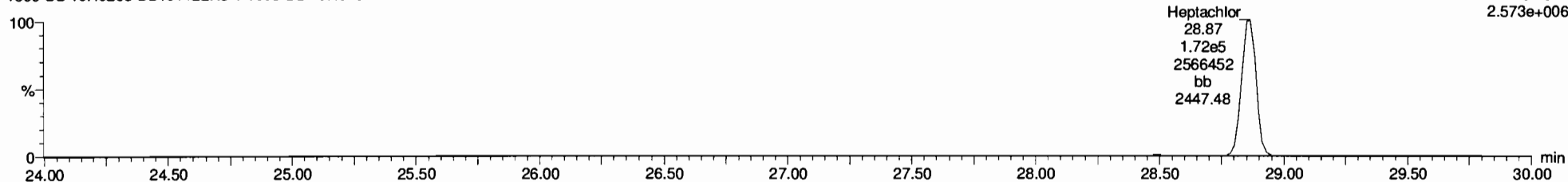
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

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

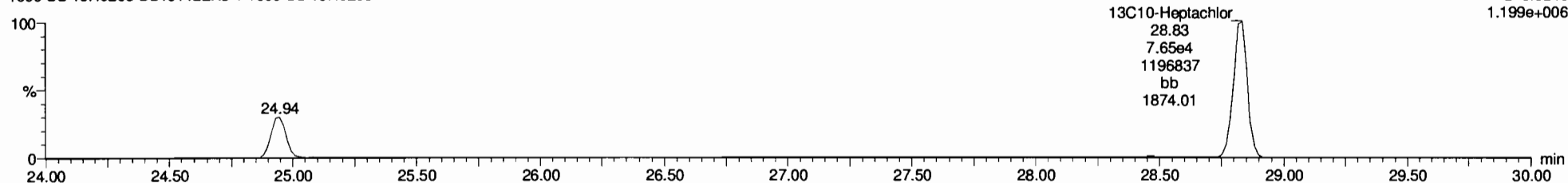
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

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

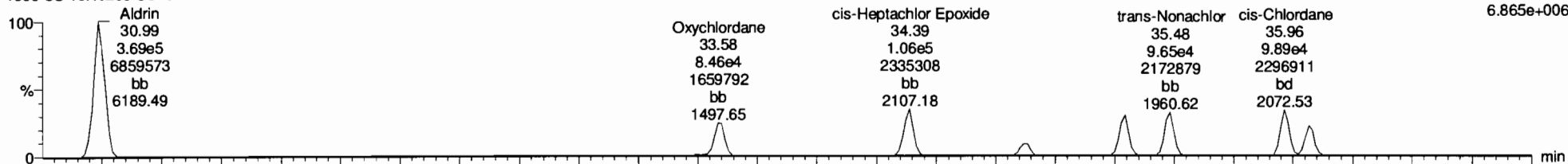
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Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

Aldrin-EI

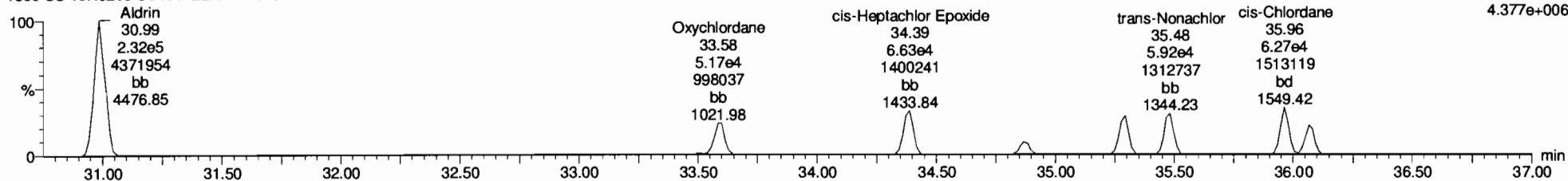
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F3:Voltage SIR,EI+
262.8569
6.865e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

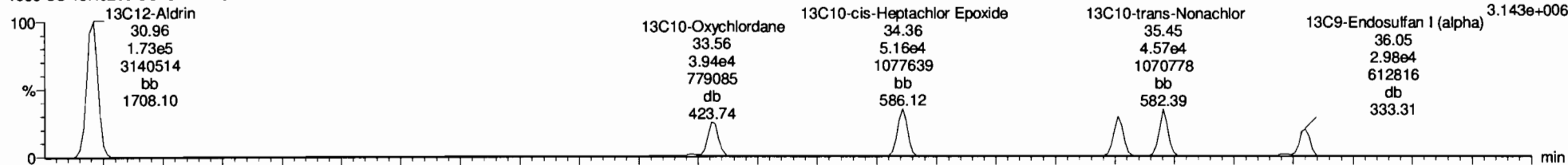
F3:Voltage SIR,EI+
264.8550
4.377e+006



Aldrin-EI-isotopes

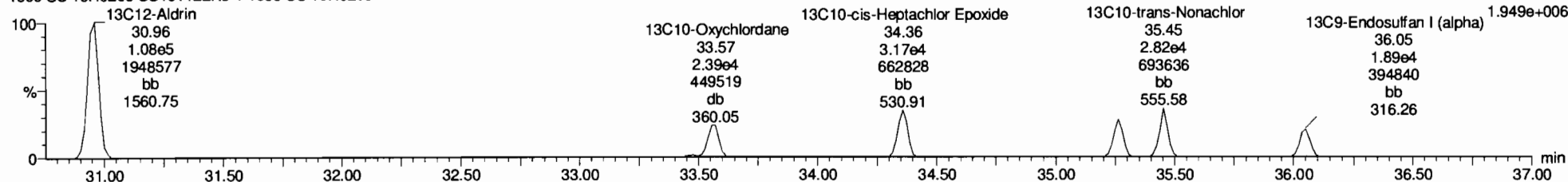
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

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

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

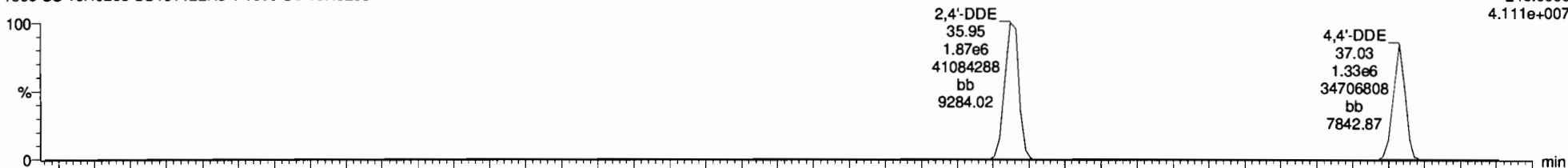
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

DDMU-DDE

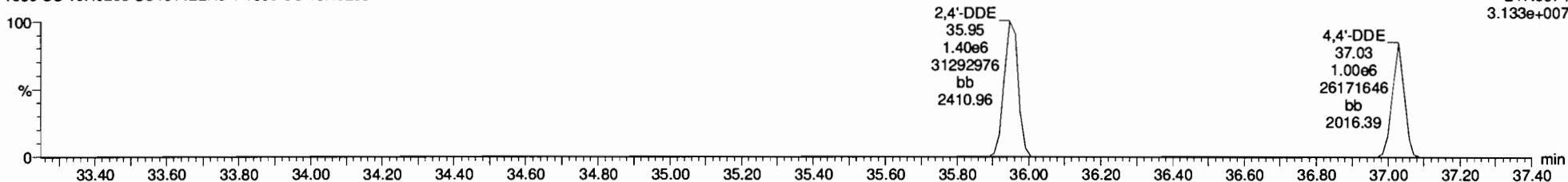
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F3:Voltage SIR,EI+
246.0003
4.111e+007



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

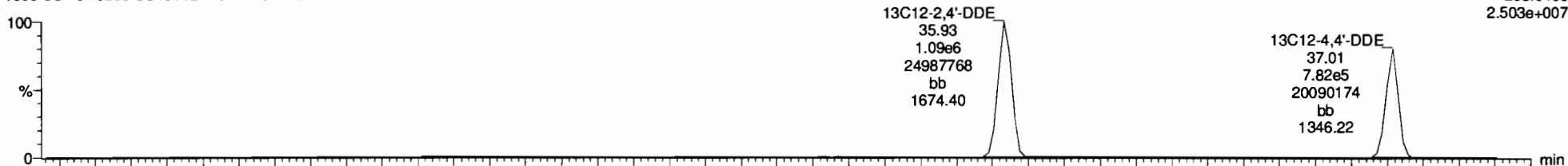
F3:Voltage SIR,EI+
247.9974
3.133e+007



DDE-isotopes

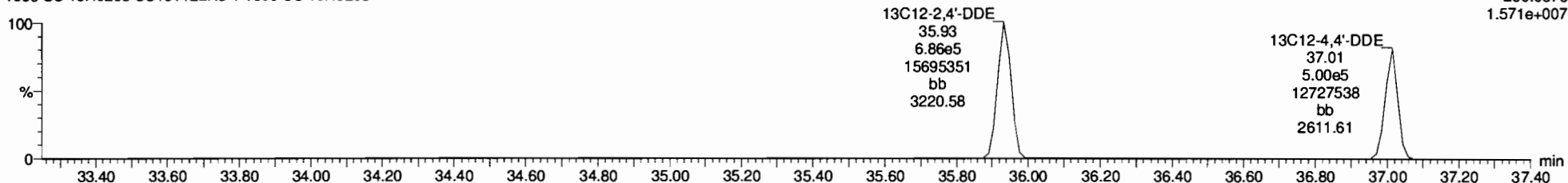
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

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

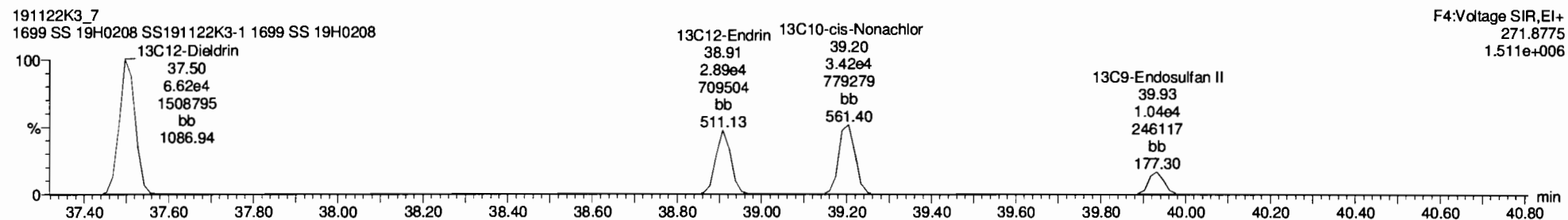
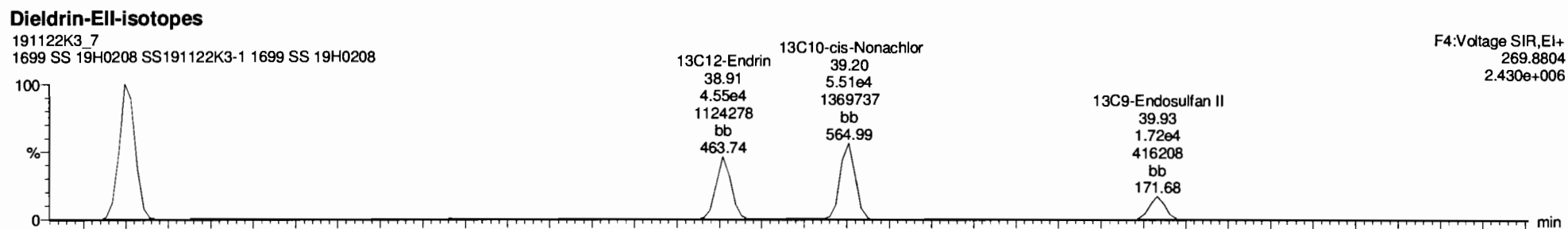
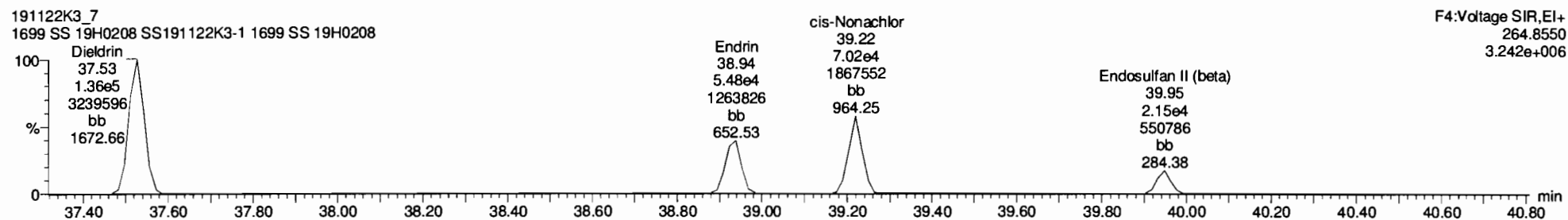
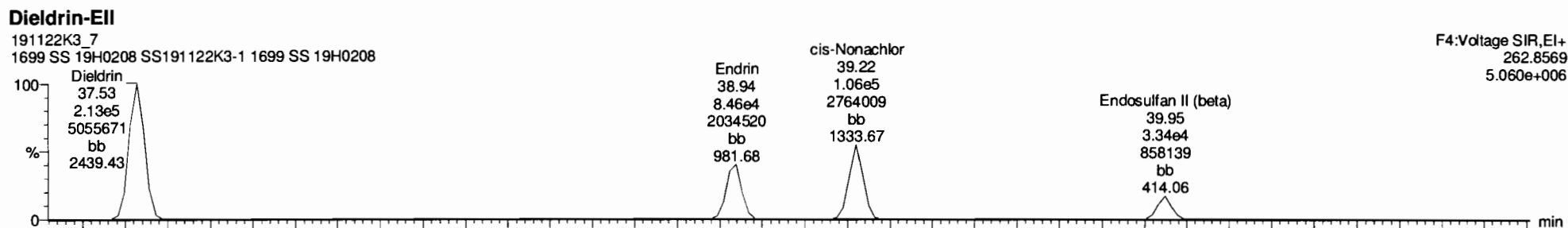


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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208



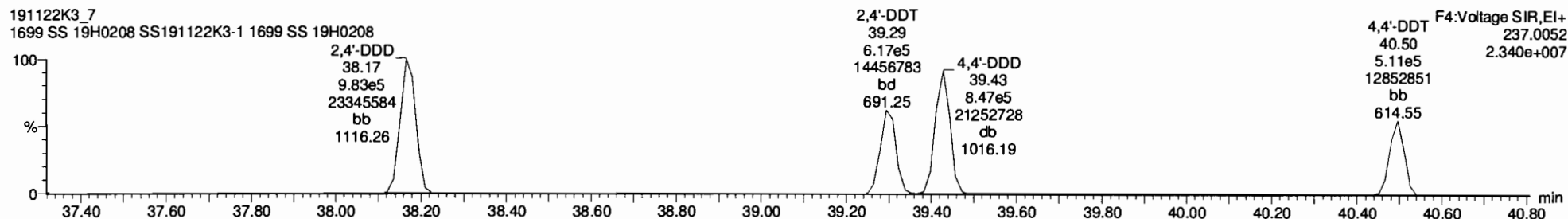
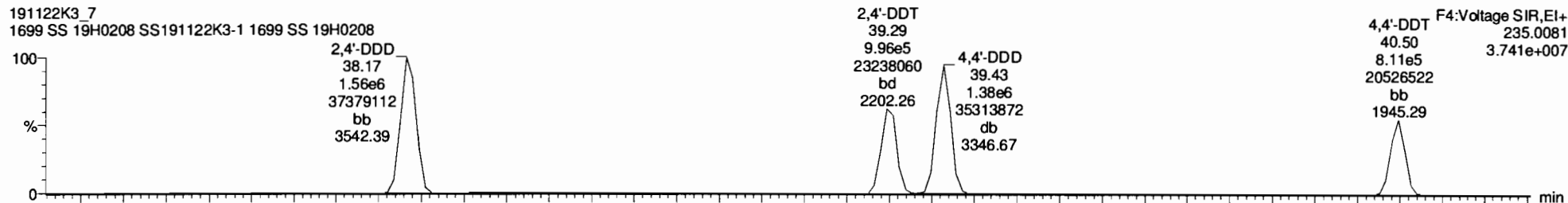
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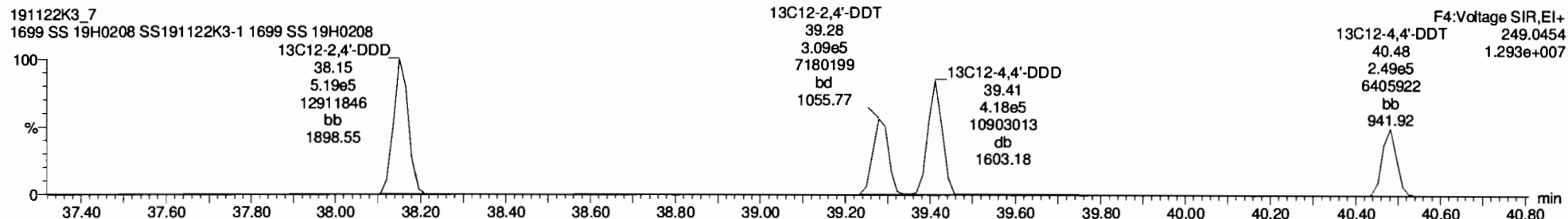
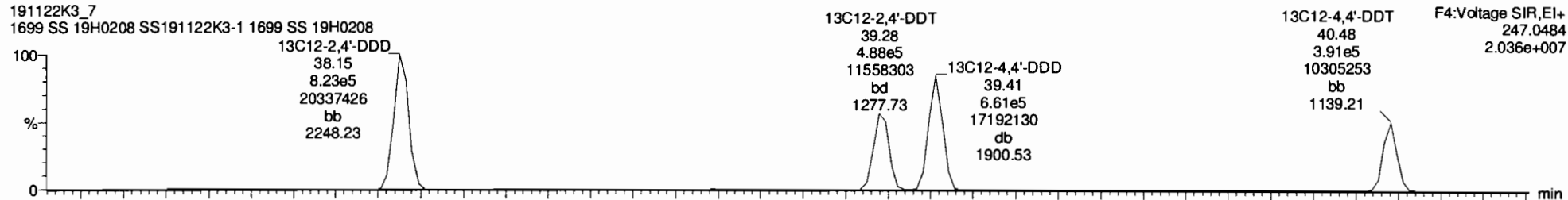
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Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

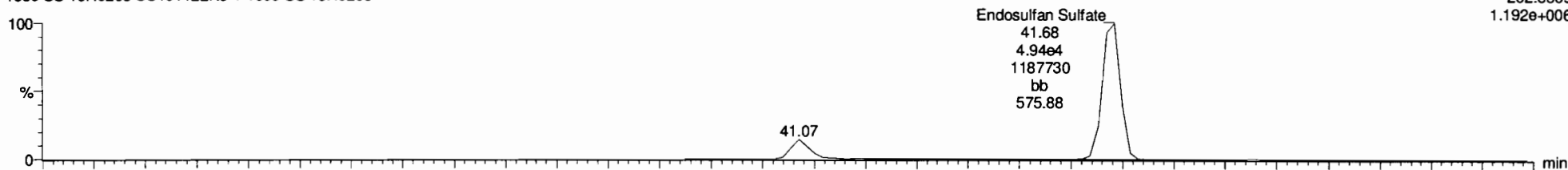
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Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

Endosulfan Sulfate

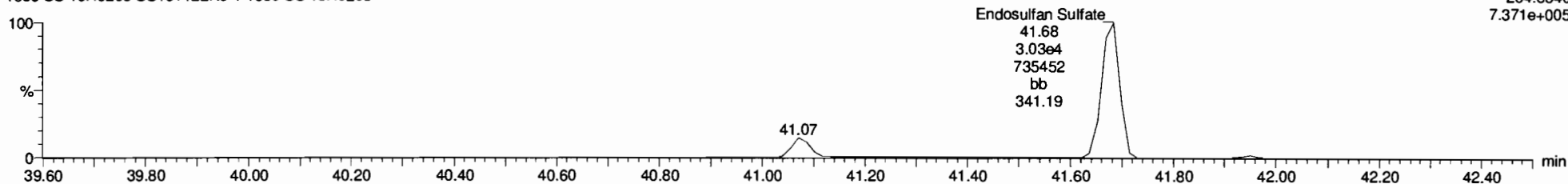
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,El+
262.8569
1.192e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

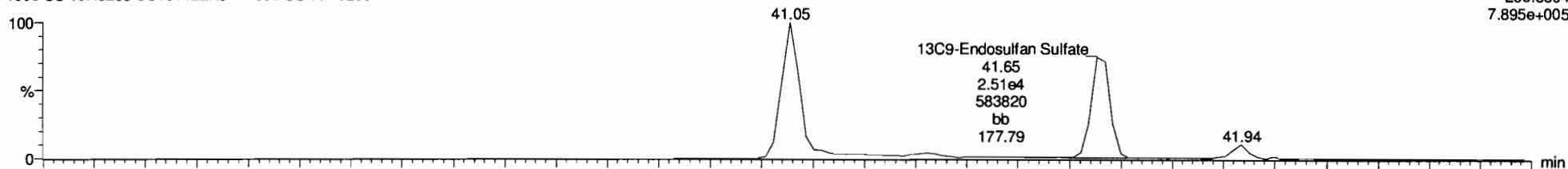
F5:Voltage SIR,El+
264.8540
7.371e+005



13C9-Endosulfan Sulfate

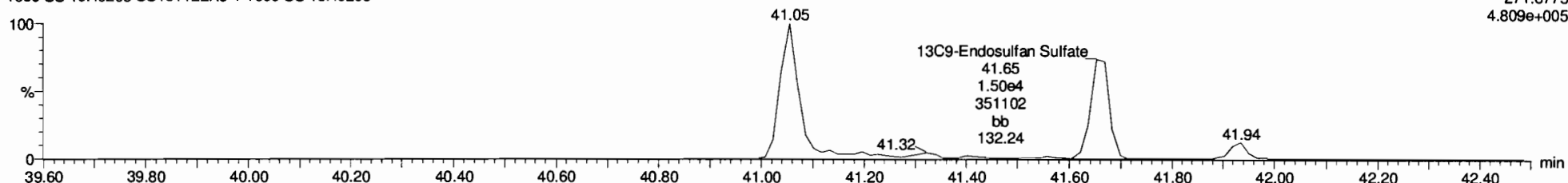
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

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

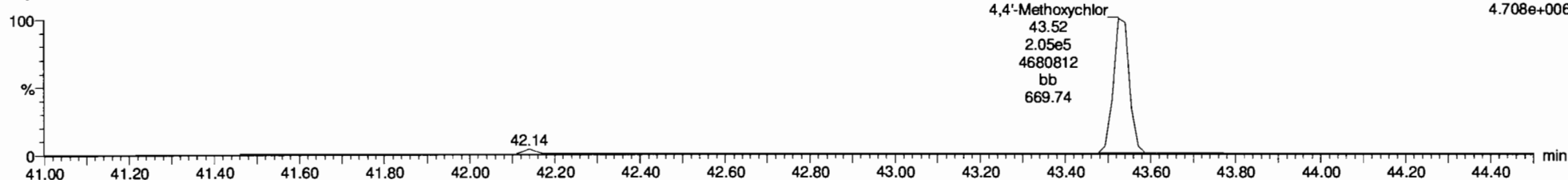
F5:Voltage SIR,EI+
227.1072
2.760e+007



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

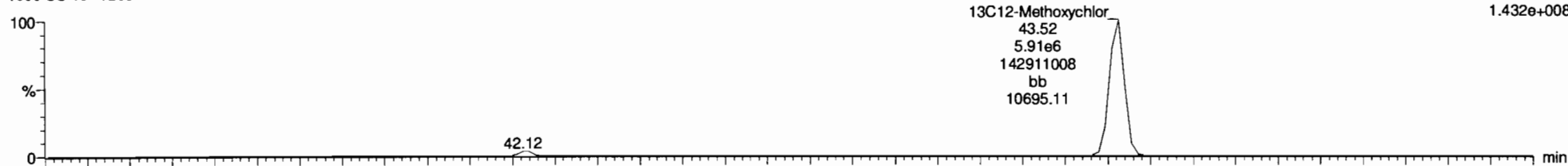


4,4'-Methoxychlor
43.52
2.05e5
4680812
bb
669.74

13C12-Methoxychlor

191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

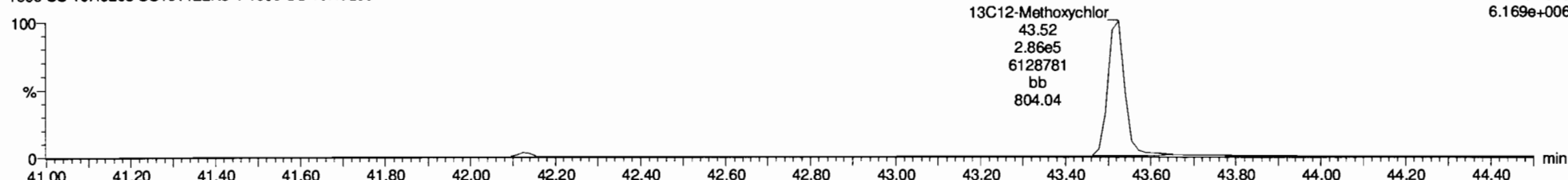
F5:Voltage SIR,EI+
239.1475
1.432e+008



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
6128781
bb
804.04

Dataset: Untitled

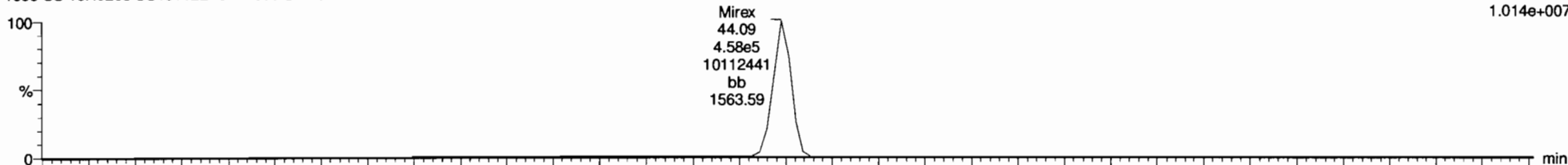
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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Mirex

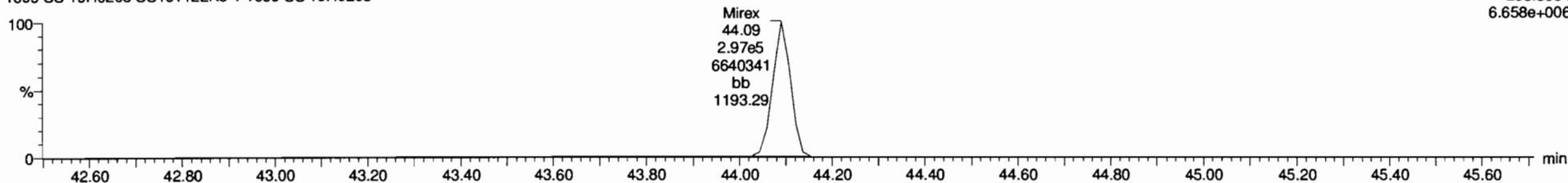
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,EI+
236.8413
1.014e+007



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

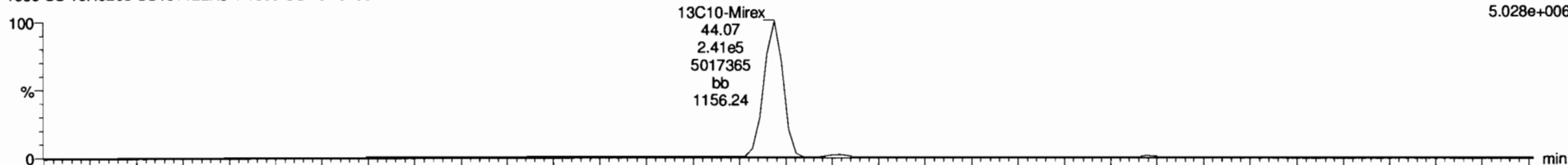
F5:Voltage SIR,EI+
238.8384
6.658e+006



13C10-Mirex

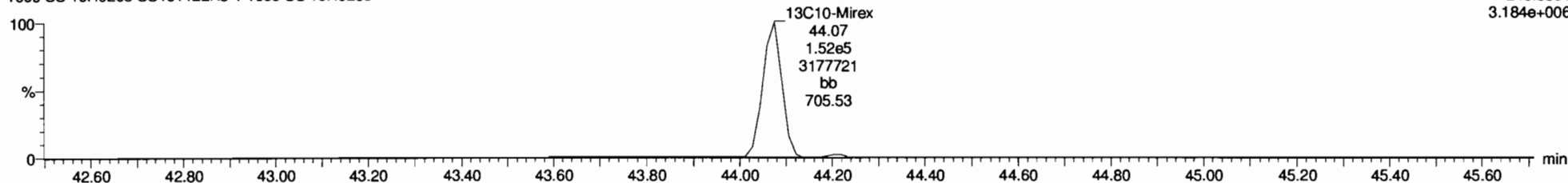
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

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

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

EA-EK

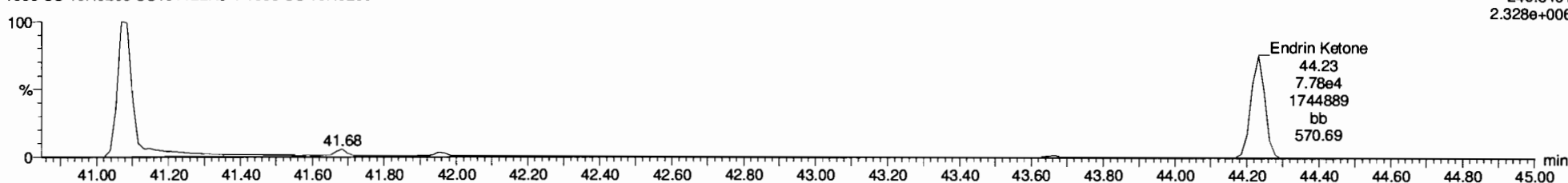
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1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,EI+
247.8521
1.542e+006



191122K3_7
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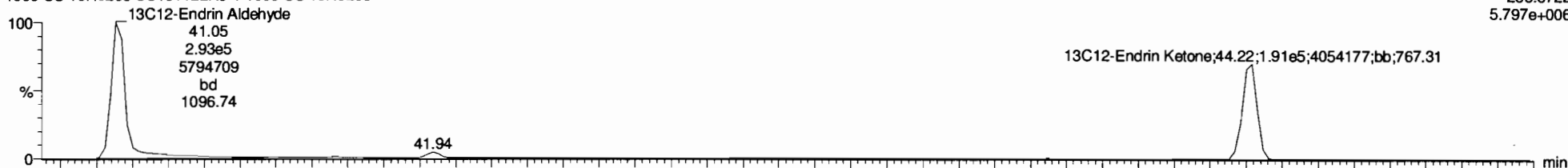
F5:Voltage SIR,EI+
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2.328e+006



EA-EK-isotopes

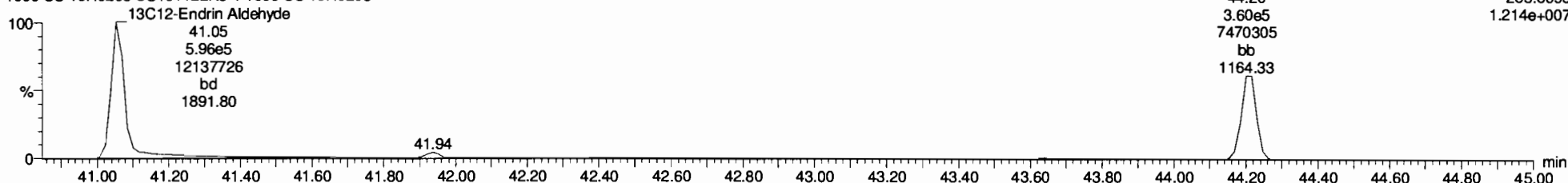
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1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,EI+
253.8722
5.797e+006

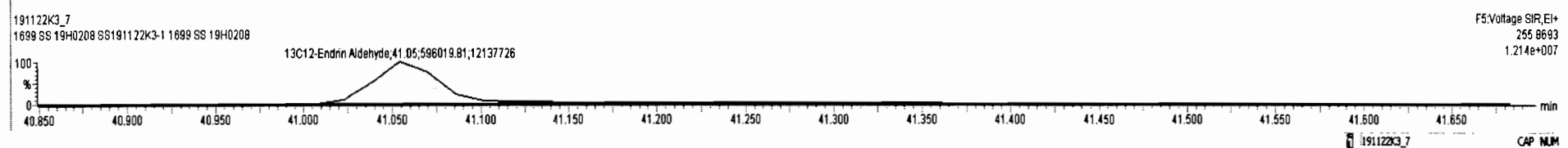
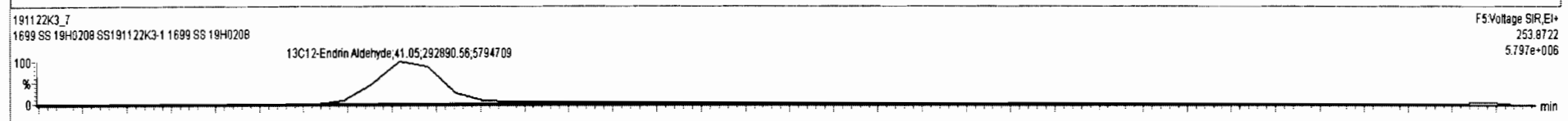
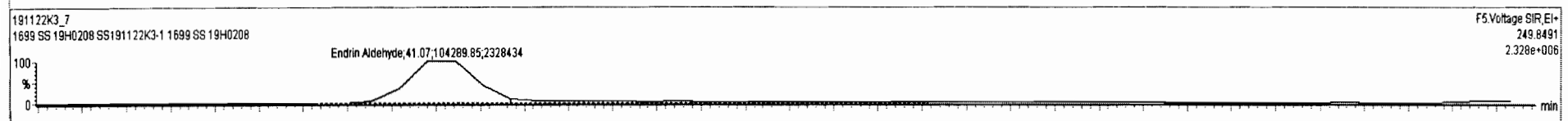
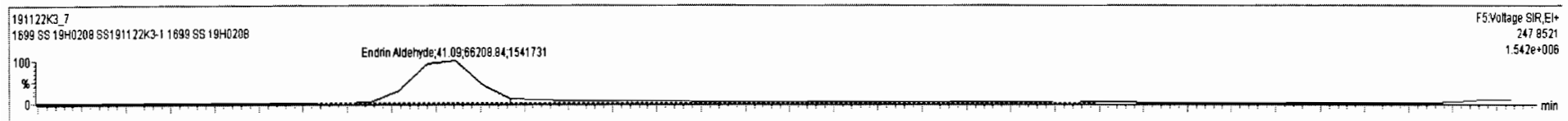


191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

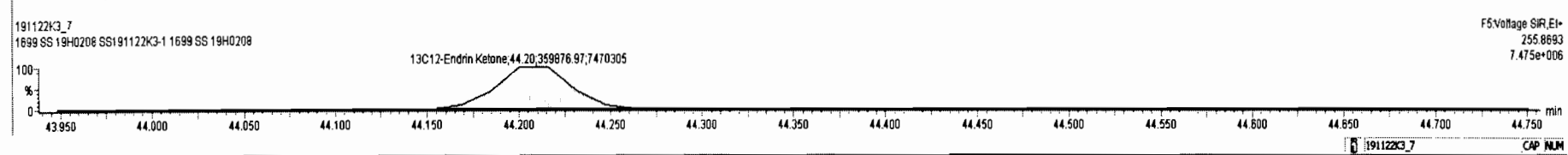
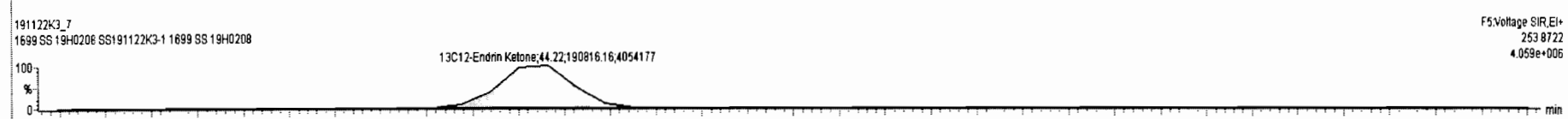
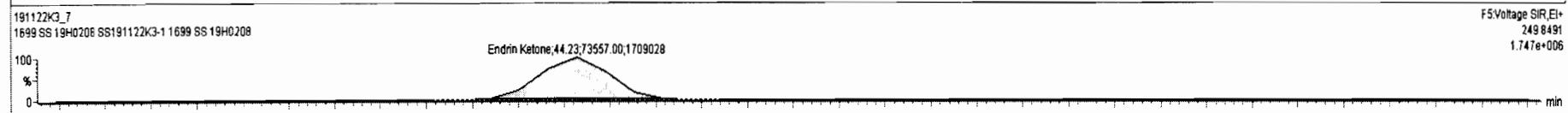
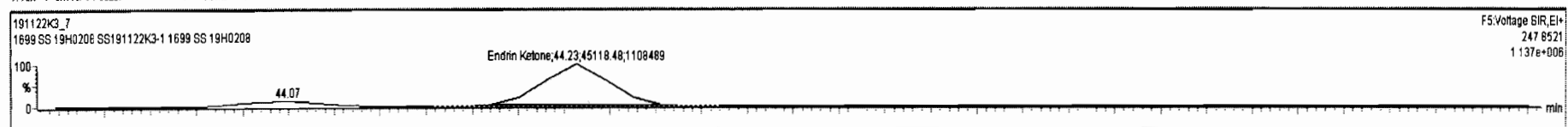
F5:Voltage SIR,EI+
255.8693
1.214e+007



#	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	0.8867	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	Prod.RT	RT	Prod.RT	RRF	RRT	RRT	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			



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

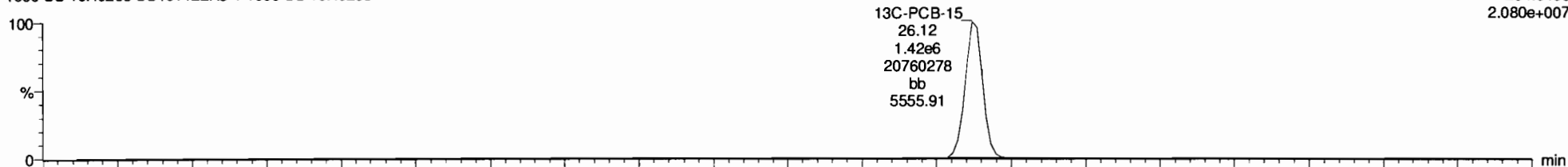
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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13C-PCB-15

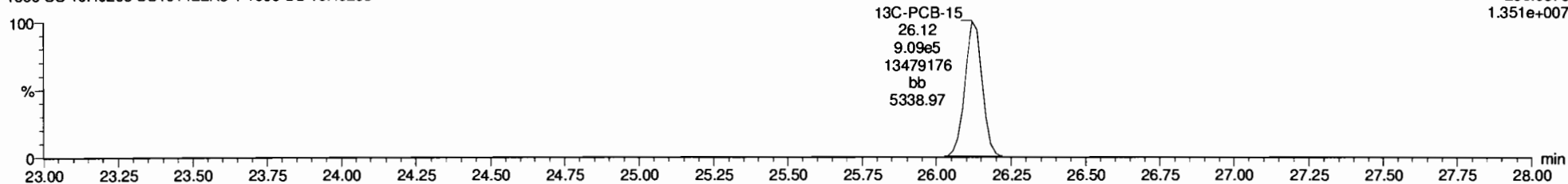
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F2:Voltage SIR,EI+
234.0406
2.080e+007



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

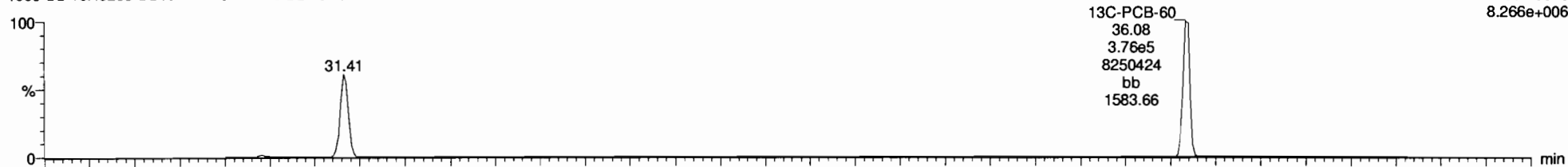
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236.0376
1.351e+007



13C-PCB-60

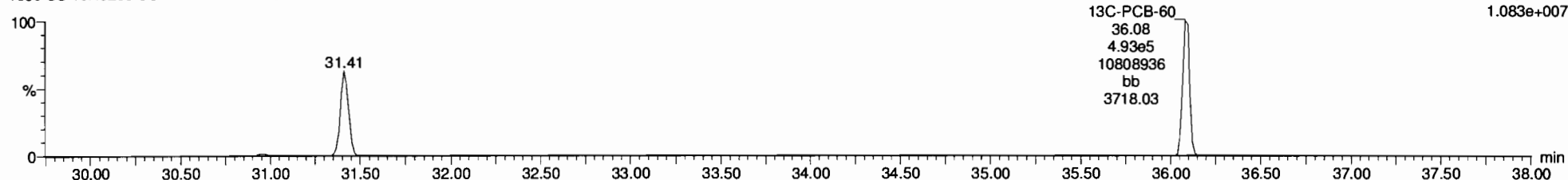
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1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

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

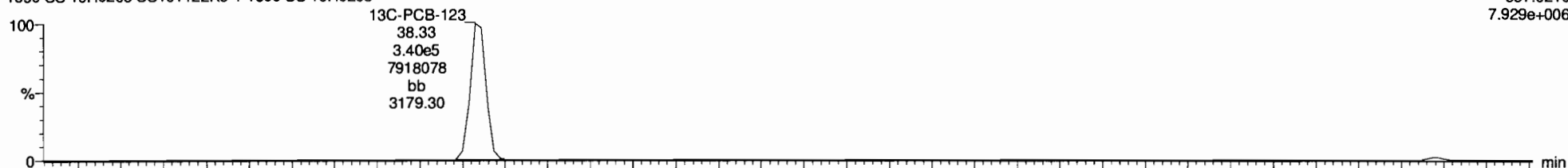
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13C-PCB-123

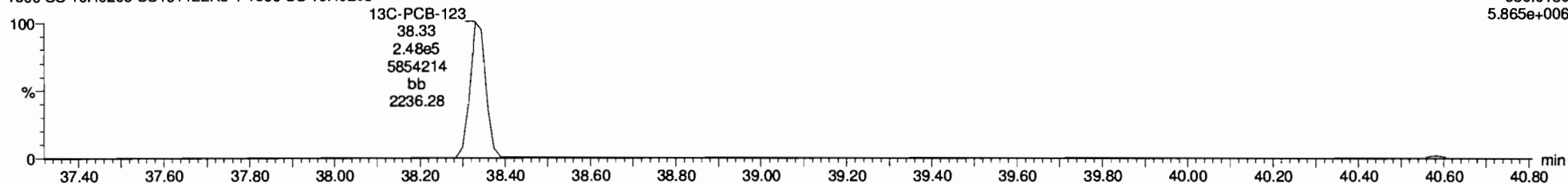
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F4:Voltage SIR,EI+
337.9210
7.929e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

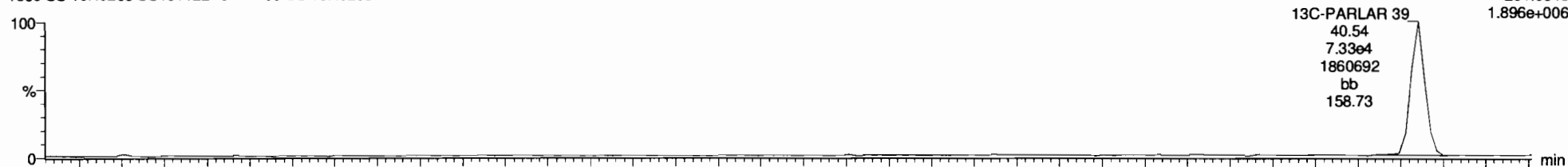
F4:Voltage SIR,EI+
339.9180
5.865e+006



13C-PARLAR 39

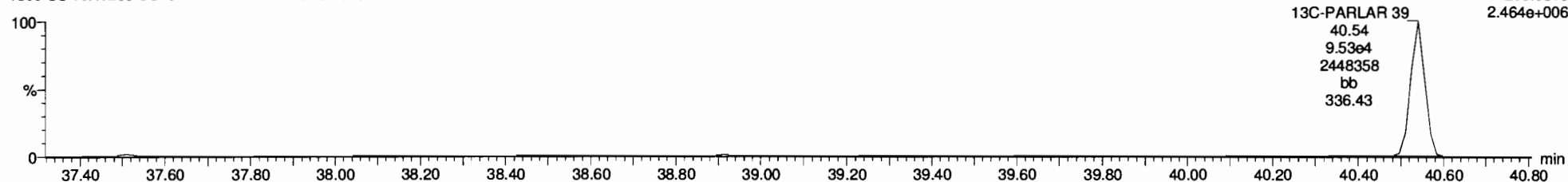
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

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



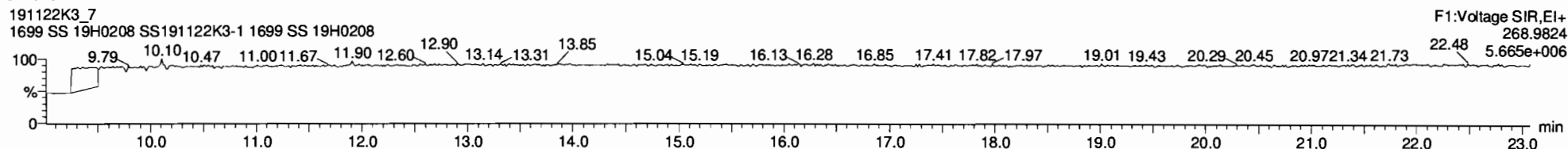
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

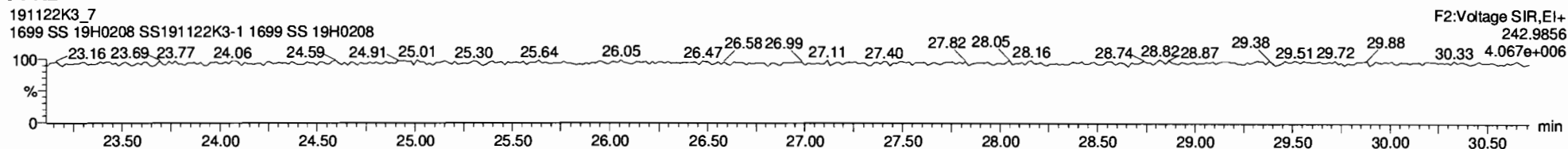
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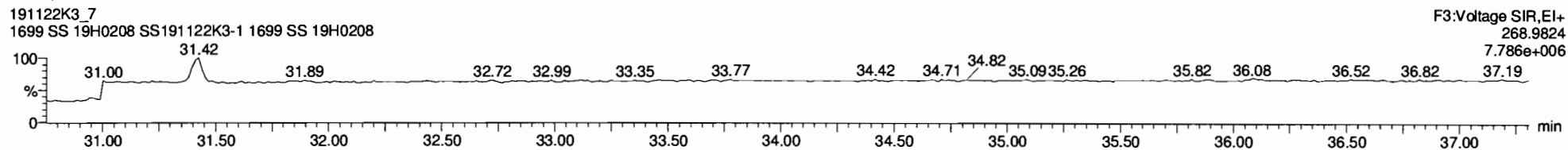
PFK1



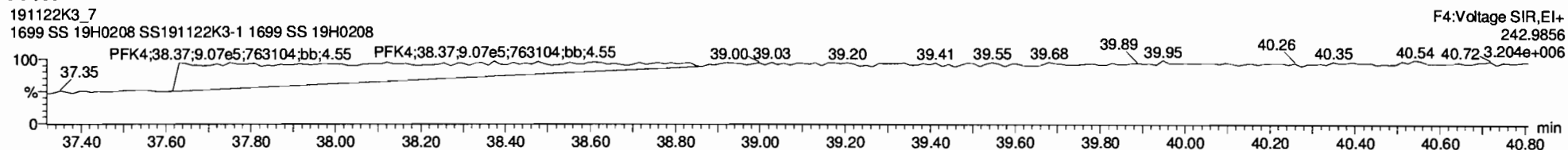
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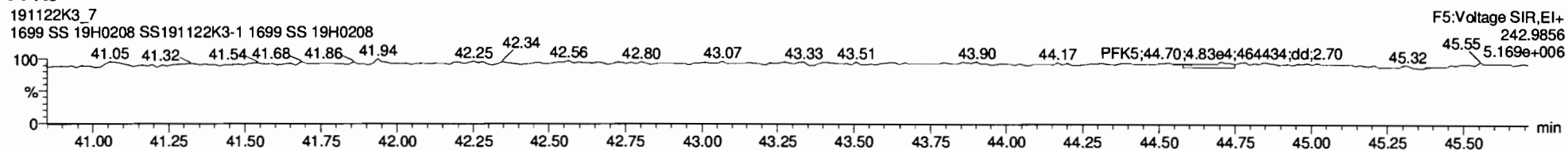
PFK3



PFK4



PFK5



Dataset: Untitled

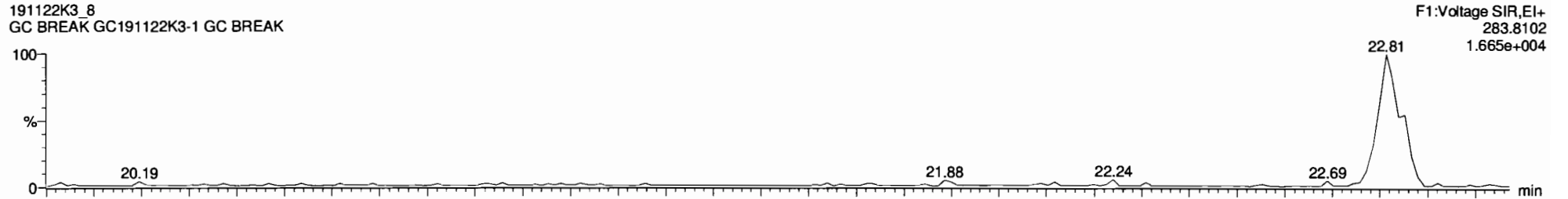
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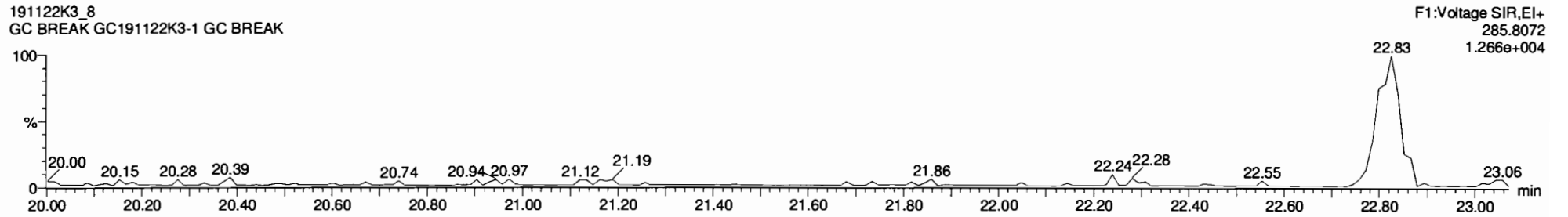
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Hexachlorobenzene

191122K3_8
GC BREAK GC191122K3-1 GC BREAK

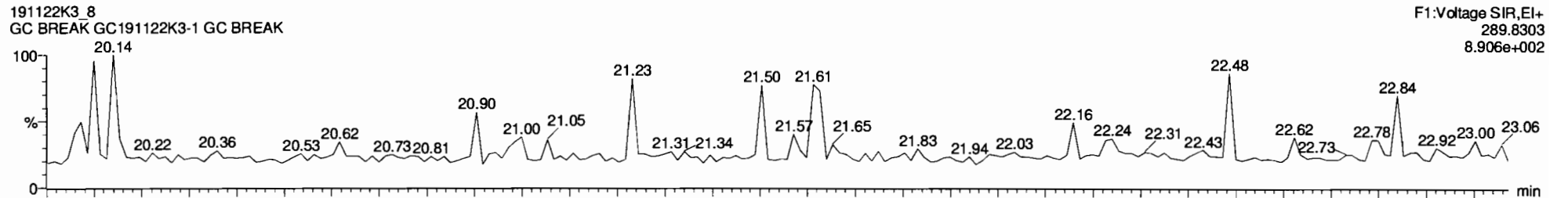


191122K3_8
GC BREAK GC191122K3-1 GC BREAK

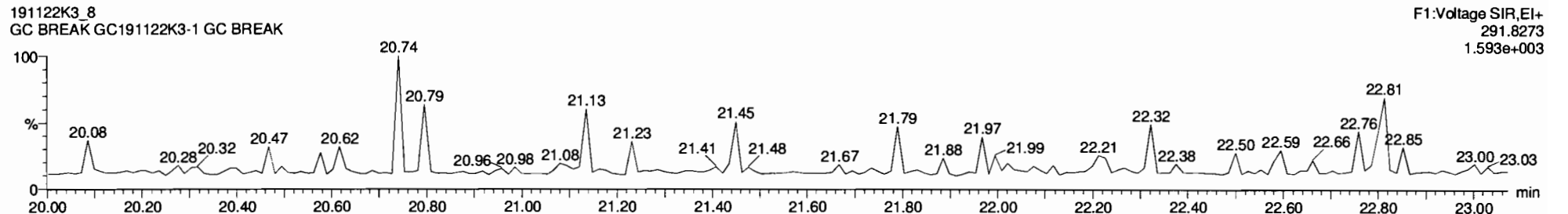


13C6-Hexachlorobenzene

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
 Printed: Monday, January 27, 2020 09:10:05 Pacific Standard Time

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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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
1	200125K1_1		1.24	NO	39.21	1.001	3.96e4	8.88e5	1.98	-0.9	1.11	bb
2	200125K1_2	10.0	1.50	NO	39.20	1.000	3.44e5	1.45e6	10.5	5.3	1.18	db
3	200125K1_3	100	1.54	NO	39.20	1.000	2.76e6	1.27e6	96.9	-3.1	1.09	db
4	200125K1_4	250	1.52	NO	39.20	1.000	1.07e7	1.97e6	241	-3.7	1.08	bb
5	200125K1_5	1200	1.51	NO	39.20	1.000	3.73e7	1.42e6	1170	-2.3	1.10	bb
6	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
1	200125K1_1		1.25	NO	40.28	1.001	2.43e4	5.47e5	1.96	-2.2	1.11	bb
2	200125K1_2	10.0	1.48	NO	40.27	1.000	2.10e5	9.04e5	10.2	2.5	1.16	bb
3	200125K1_3	100	1.54	NO	40.27	1.000	1.75e6	7.94e5	97.0	-3.0	1.10	bb
4	200125K1_4	250	1.54	NO	40.28	1.000	6.80e6	1.24e6	243	-3.0	1.10	bb
5	200125K1_5	1200	1.53	NO	40.28	1.000	2.46e7	9.05e5	1200	-0.2	1.13	bb
6	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
1	200125K1_1		1.47	NO	41.45	1.000	5.68e3	2.72e4	10.6	5.9	1.05	bb
2	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
200125K1_1		1.61	NO	34.14	1.314	5.90e4	1.59e6	45.9	-8.1	0.0372	bb
200125K1_2	50.0	1.62	NO	34.14	1.314	9.14e4	2.37e6	47.7	-4.6	0.0386	bb
200125K1_3	50.0	1.61	NO	34.14	1.314	7.55e4	1.91e6	48.8	-2.5	0.0395	bb
200125K1_4	50.0	1.64	NO	34.14	1.314	1.23e5	2.95e6	51.5	3.0	0.0416	bb
200125K1_5	50.0	1.67	NO	34.14	1.314	8.33e4	1.92e6	53.7	7.5	0.0435	bb
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
200125K1_1		1.55	NO	35.05	1.349	4.25e4	1.59e6	47.7	-4.6	0.0268	bb
200125K1_2	50.0	1.58	NO	35.04	1.349	6.53e4	2.37e6	49.0	-2.0	0.0276	bb
200125K1_3	50.0	1.74	NO	35.05	1.349	5.32e4	1.91e6	49.5	-1.0	0.0278	bb
200125K1_4	50.0	1.74	NO	35.06	1.349	8.60e4	2.95e6	51.8	3.5	0.0291	bb
200125K1_5	50.0	2.14	YES	35.06	1.349	6.99e4	1.92e6	64.9	29.8	0.0365	bbX
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
200125K1_1		1.71	NO	35.24	1.356	4.87e4	1.59e6	46.5	-7.0	0.0307	bb
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

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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

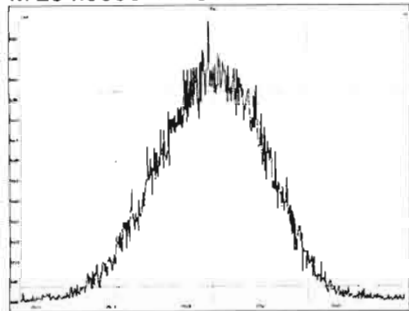
Compound name: Hexachlorobutadiene

	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

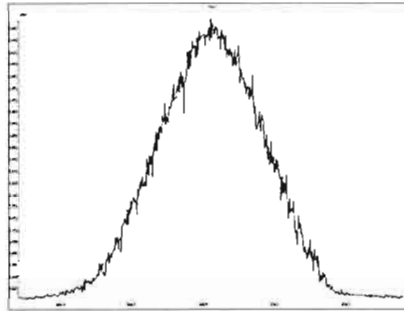
File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, January 25, 2020 12:59:31 Pacific Standard Time

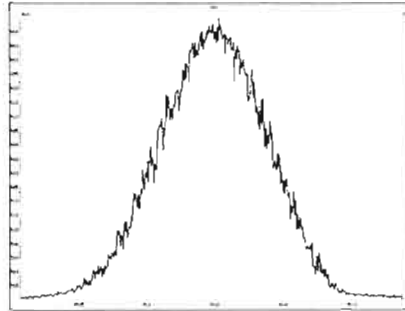
M 254.9856 R 7936



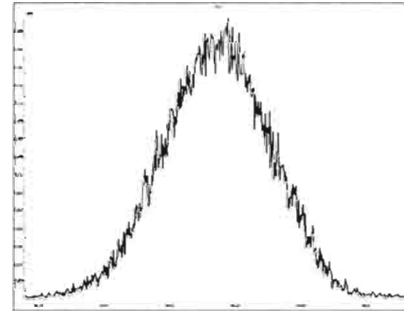
M 268.9824 R 7984



M 280.9824 R 8038



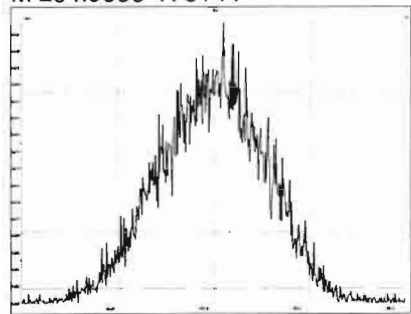
M 292.9824 R 8195



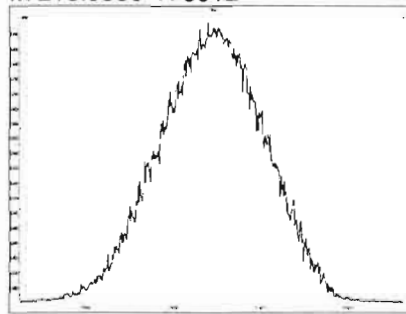
File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Saturday, January 25, 2020 13:00:08 Pacific Standard Time

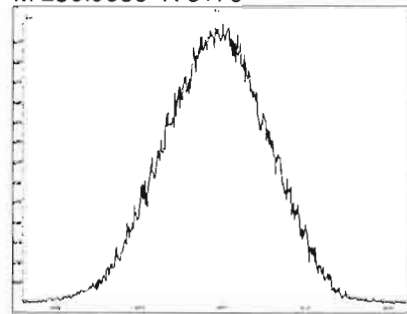
M 204.9888 R 8144



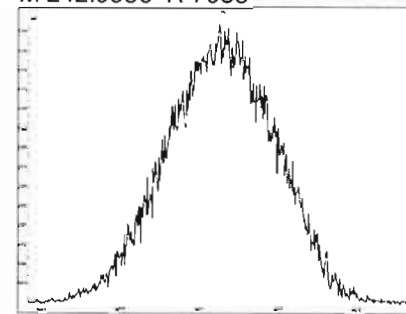
M 218.9856 R 8012



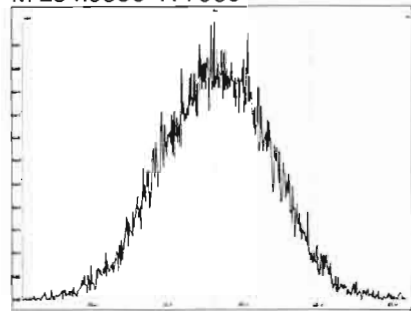
M 230.9856 R 8170



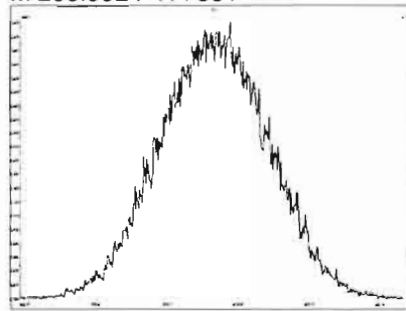
M 242.9856 R 7935



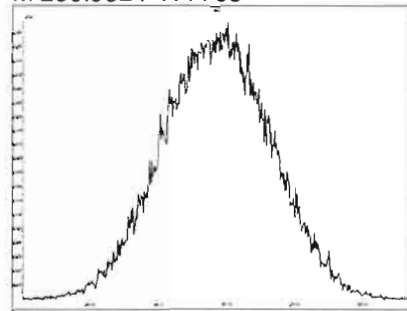
M 254.9856 R 7986



M 268.9824 R 7551



M 280.9824 R 7765



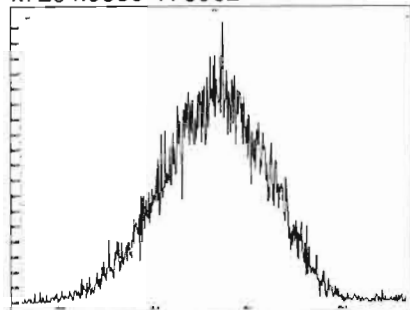
Experiment Calibration Report

MassLynx 4.1 SCN815

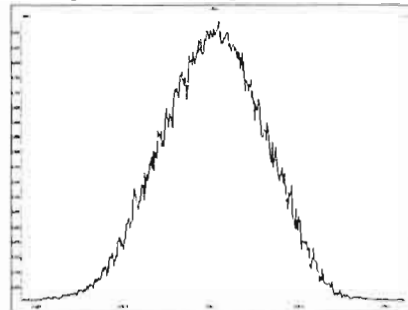
File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, January 25, 2020 13:00:51 Pacific Standard Time

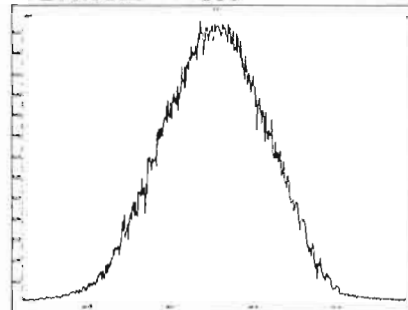
M 204.9888 R 8562



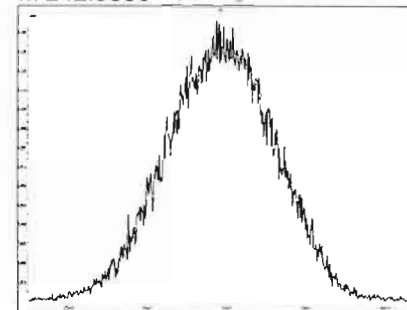
M 218.9856 R 8143



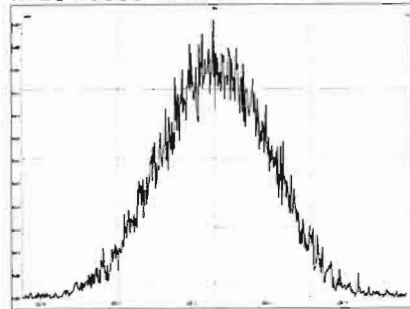
M 230.9856 R 7835



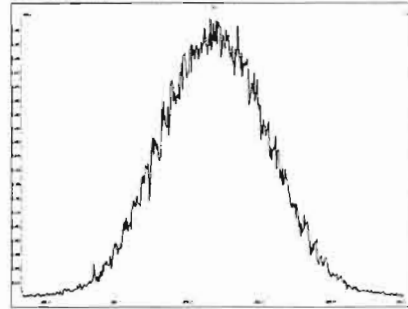
M 242.9856 R 7715



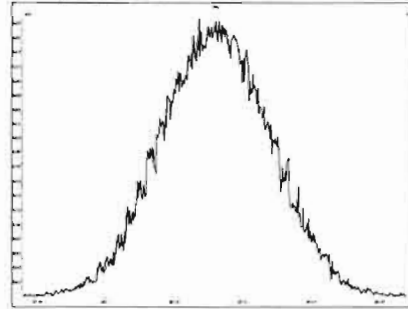
M 254.9856 R 7911



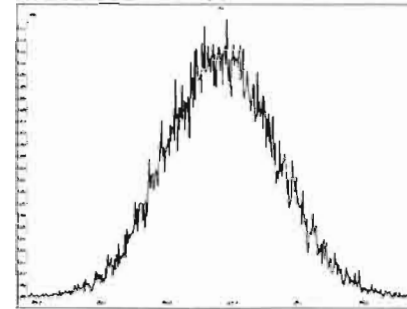
M 268.9824 R 7601



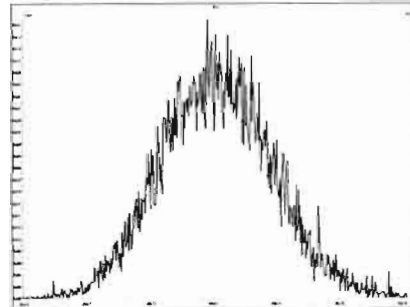
M 280.9824 R 7765



M 292.9824 R 7692



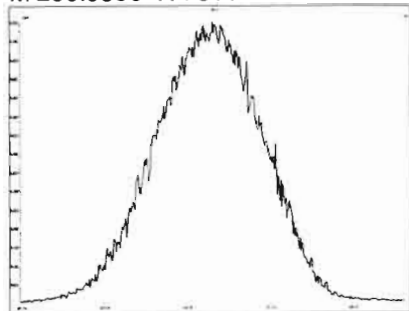
M 304.9824 R 7986



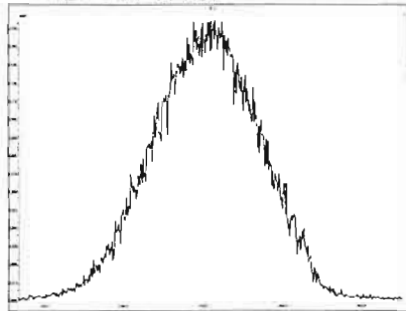
File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, January 25, 2020 13:01:44 Pacific Standard Time

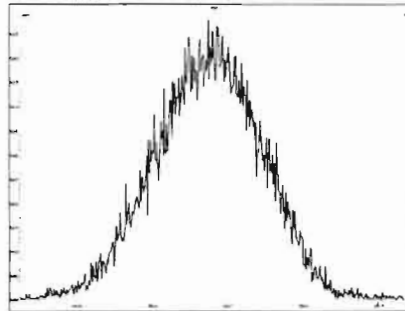
M 230.9856 R 7811



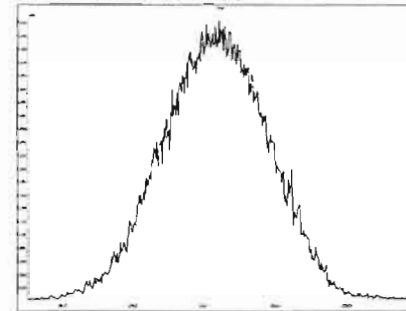
M 242.9856 R 7837



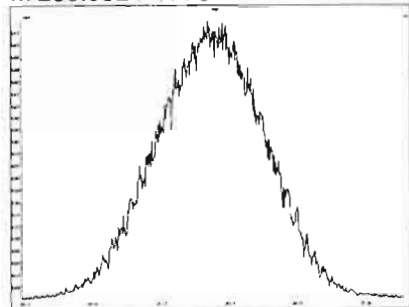
M 254.9856 R 8115



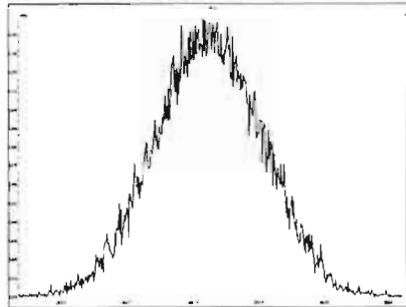
M 268.9824 R 7911



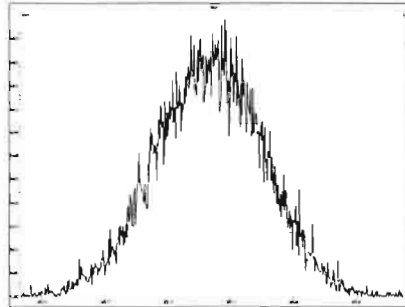
M 280.9824 R 7811



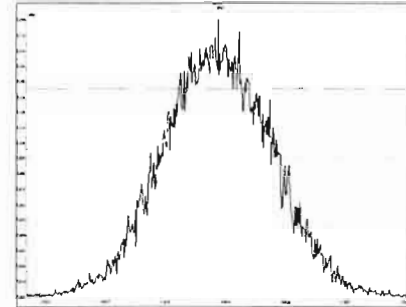
M 292.9824 R 7741



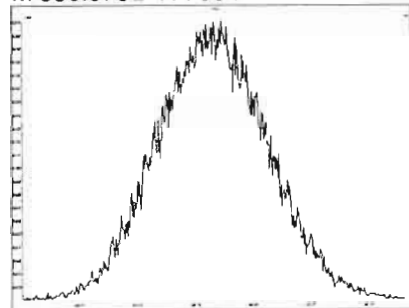
M 304.9824 R 8034



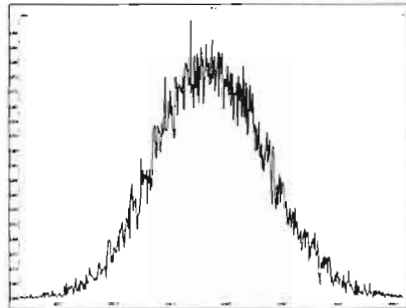
M 318.9792 R 7374



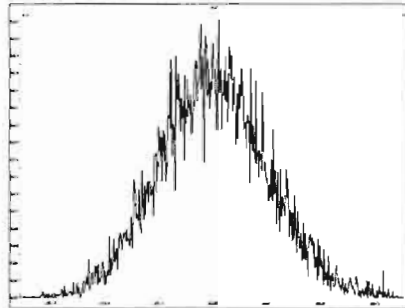
M 330.9792 R 7694



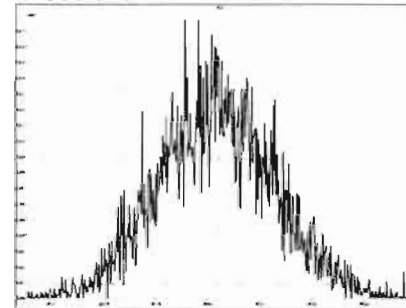
M 342.9792 R 7508



M 354.9792 R 7986



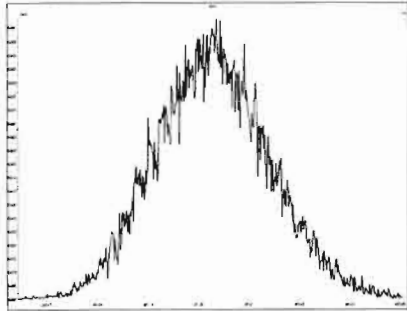
M 366.9792 R 8062



File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, January 25, 2020 13:01:44 Pacific Standard Time

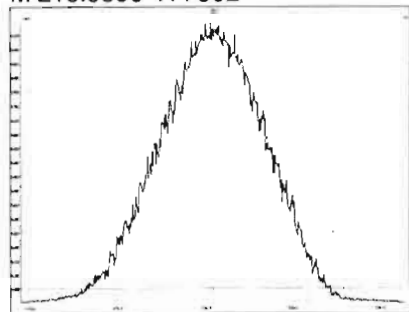
M 380.9760 R 7441



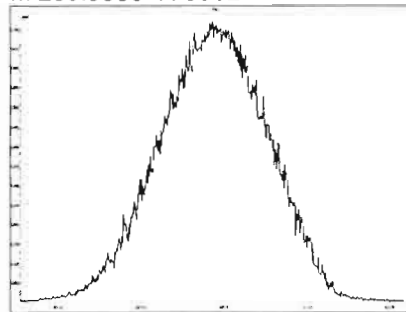
File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, January 25, 2020 13:02:30 Pacific Standard Time

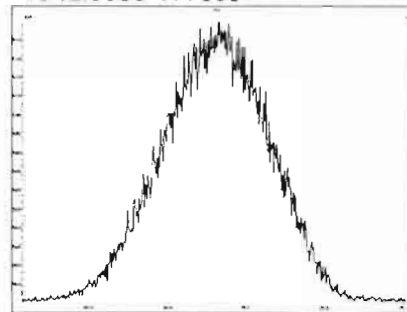
M 218.9856 R 7862



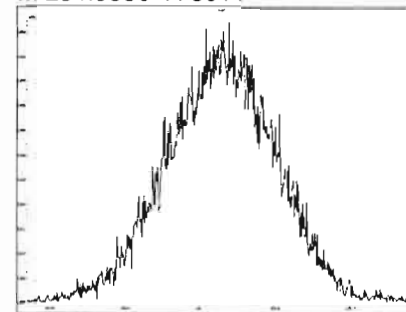
M 230.9856 R 8012



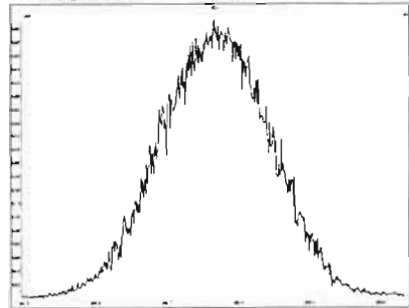
M 242.9856 R 7669



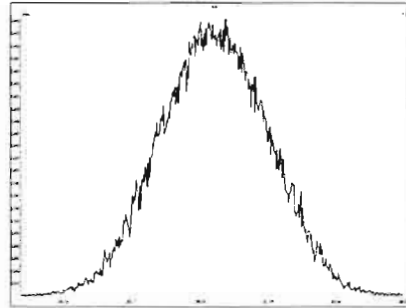
M 254.9856 R 8011



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				

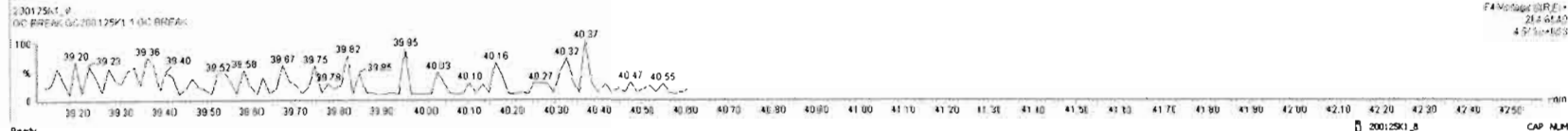
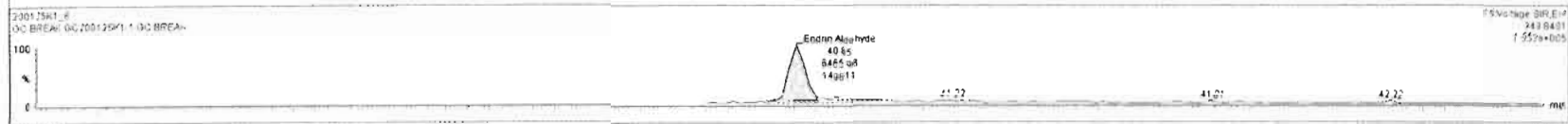
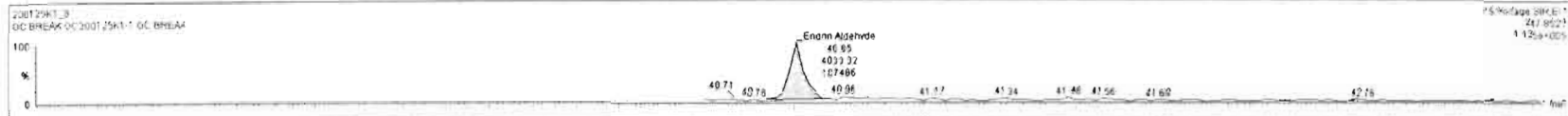
$$\frac{EA + EK}{E} \times 100\% = 5.10\%$$

HC 1-27-2020

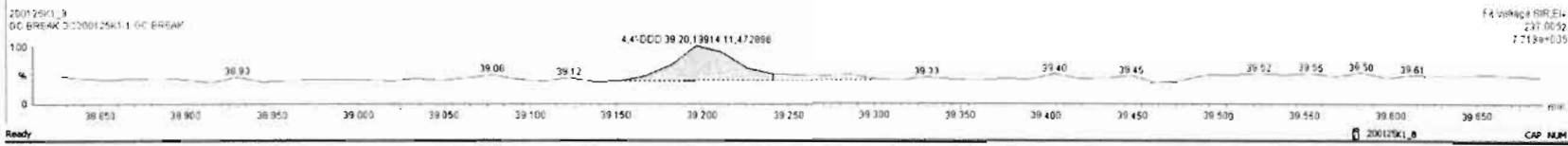
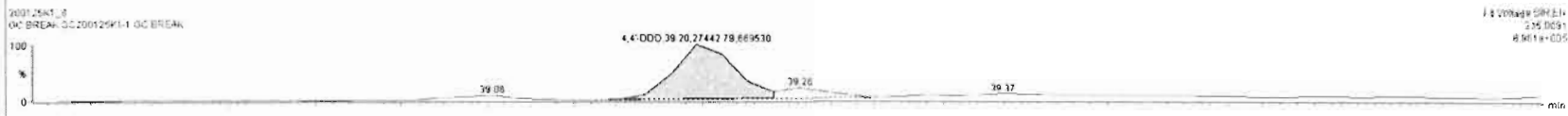
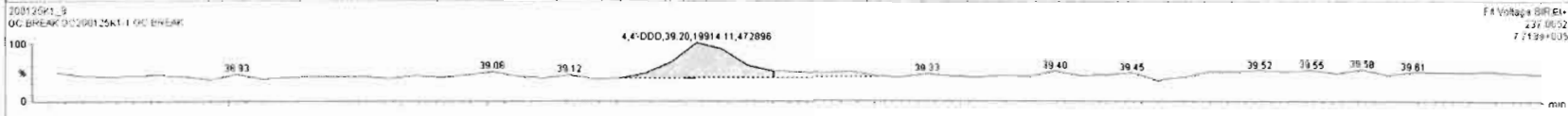
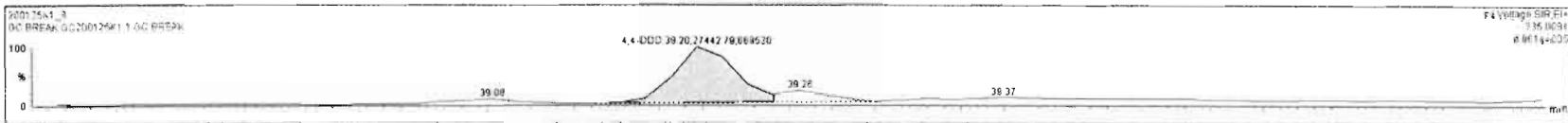
CT 01/27/2020

$$\frac{DDE + DDD}{DDT} \times 100\% = 0.58\%$$

#	Name	Resp	RA	dy	RRF	wAnd	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	RRT	Conc	%Rec	DL	EMPC
1	Enamin Aldehyde	1.054	0.62	NO	1.000	40.85	0.000				
2	Enamin Ketone	3.75e-1	0.63	NO	1.000	44.03	0.000				
3	Enamin	3.99e-5	1.58	NO	1.000	38.71	0.000				
4	4,4'-DDE			NO	1.000						
5	4,4'-DDD	4.74e4	1.39	NO	1.000	39.20	0.000				
6	4,4'-DDT	6.20e6	1.53	NO	1.000	40.27	0.000				
7	PKX4										
8	PKX5										



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

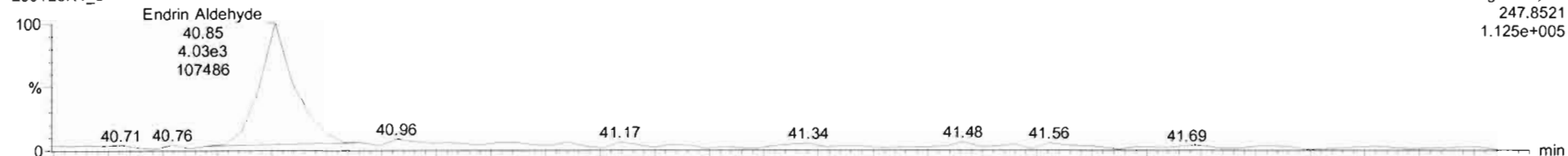
Method: U:\VG11.PRO\MethDB\1699_GC-break.mdb 26 Jan 2020 09:58:44

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

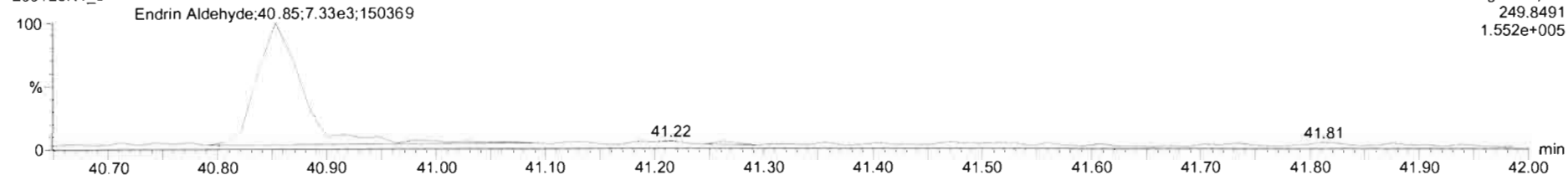
Name: 200125K1_8, Date: 25-Jan-2020, Time: 18:51:12, ID: GC200125K1-1 GC BREAK, Description: GC BREAK

Endrin Aldehyde

200125K1_8

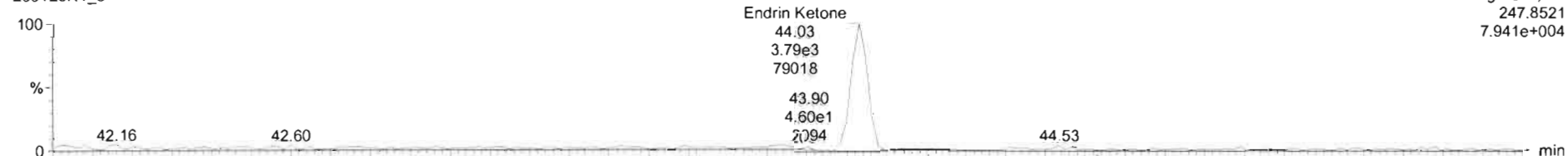


200125K1_8

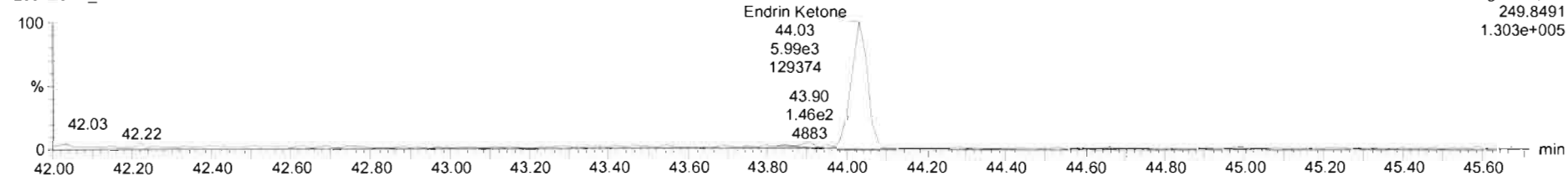


Endrin Ketone

200125K1_8



200125K1_8

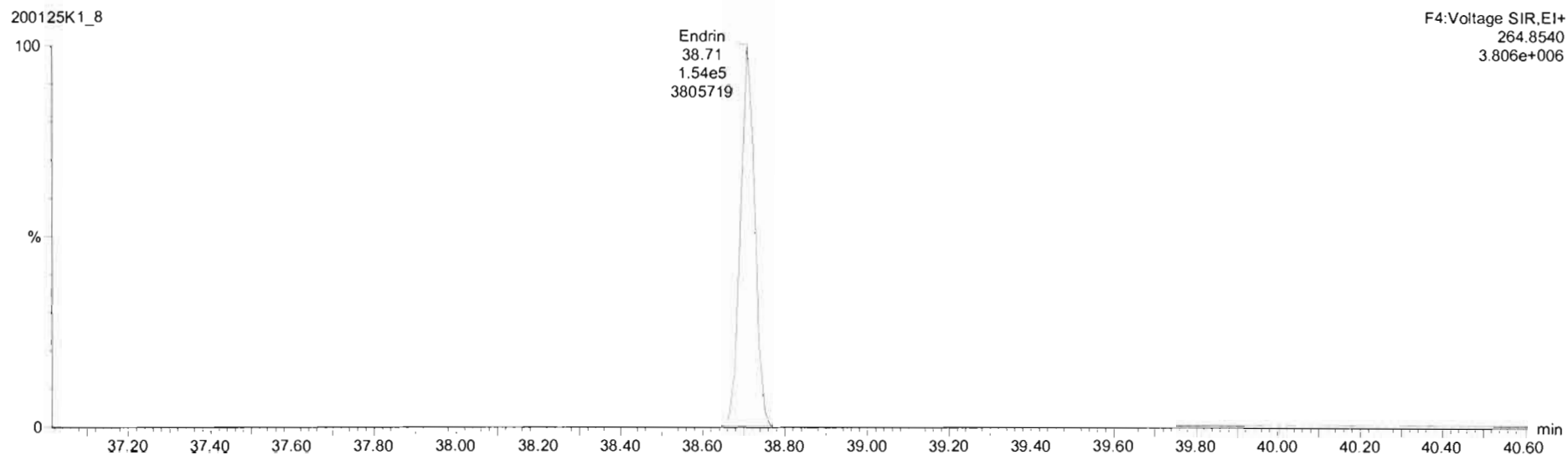
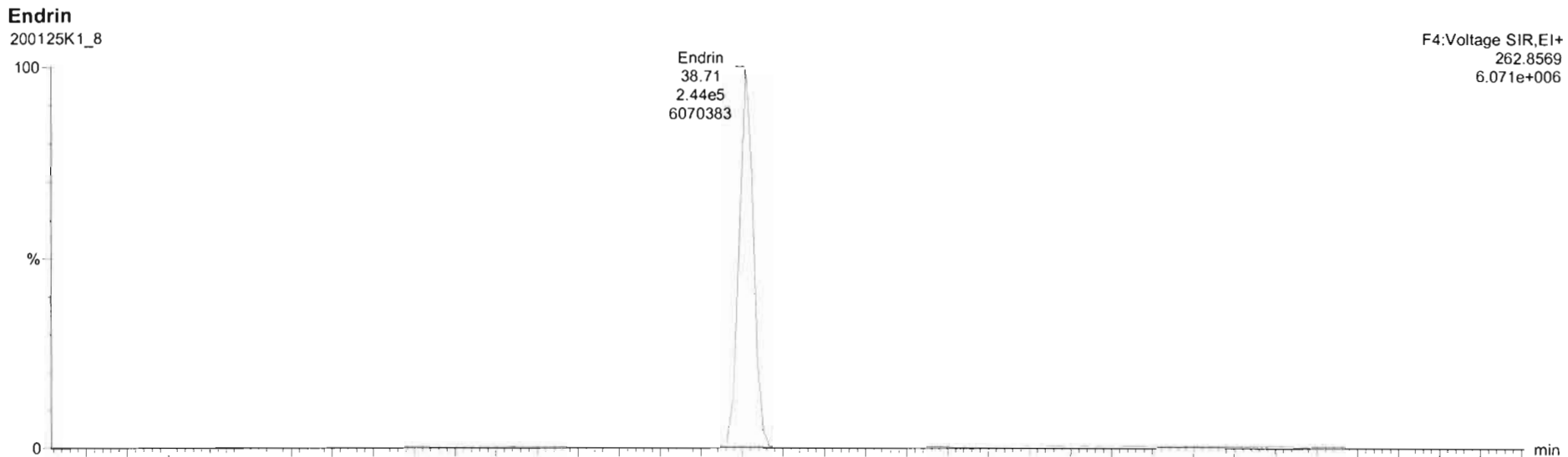


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Last Altered: Monday, January 27, 2020 09:07:33 Pacific Standard Time

Printed: Monday, January 27, 2020 09:07:49 Pacific Standard Time

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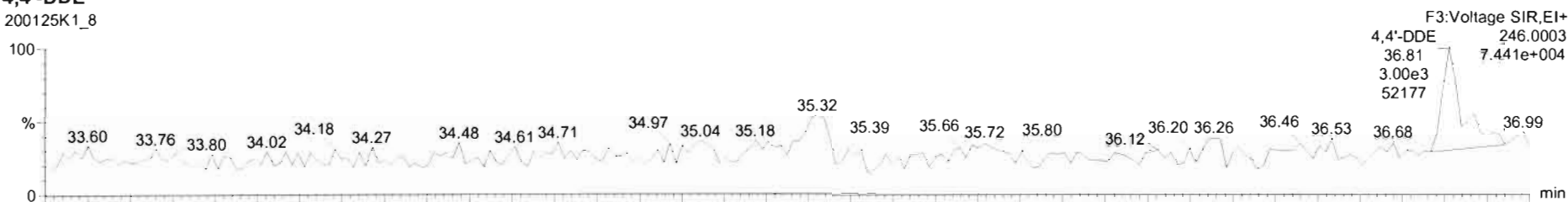
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Last Altered: Monday, January 27, 2020 09:07:33 Pacific Standard Time
Printed: Monday, January 27, 2020 09:07:49 Pacific Standard Time

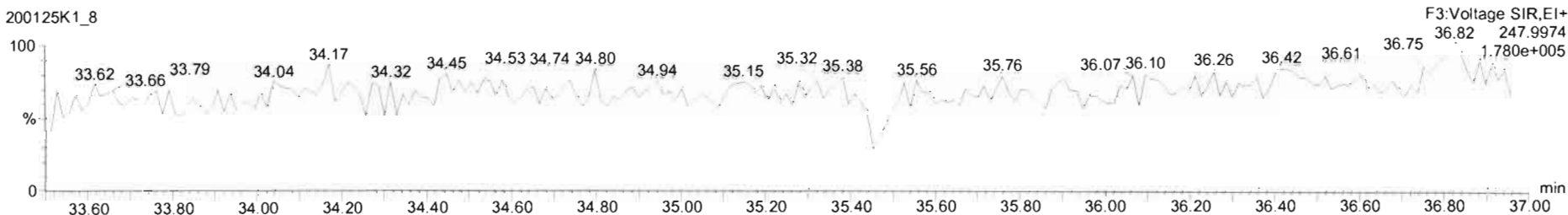
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4,4'-DDE

200125K1_8



200125K1_8

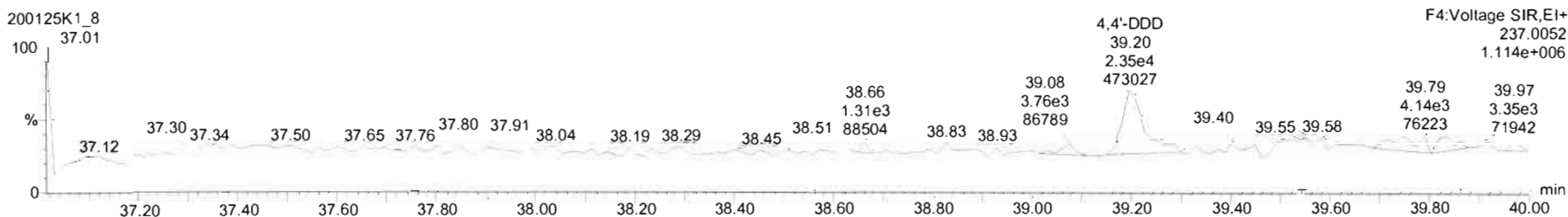


4,4'-DDD

200125K1_8



200125K1_8



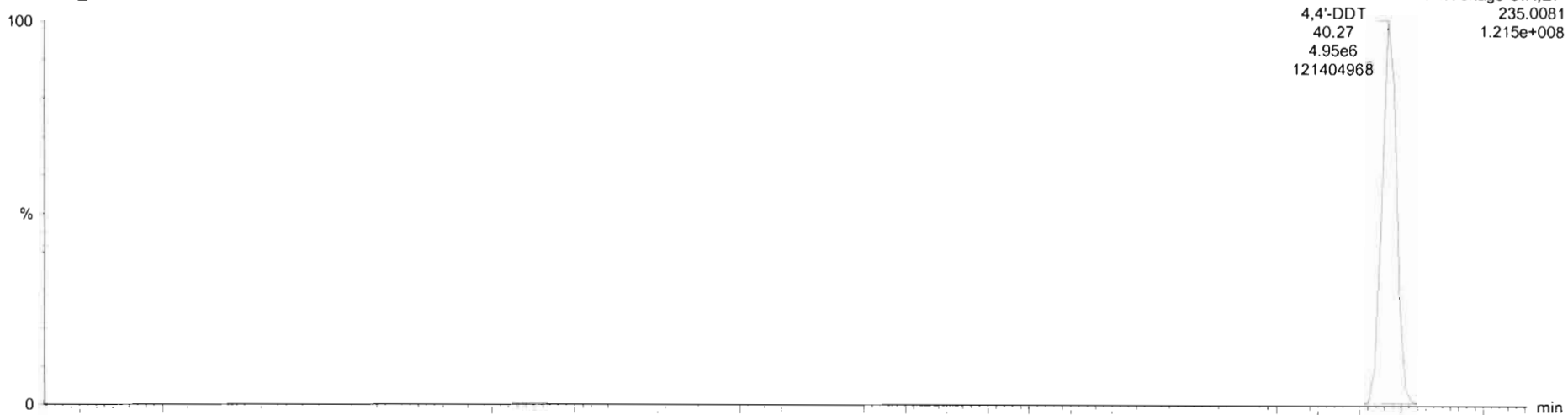
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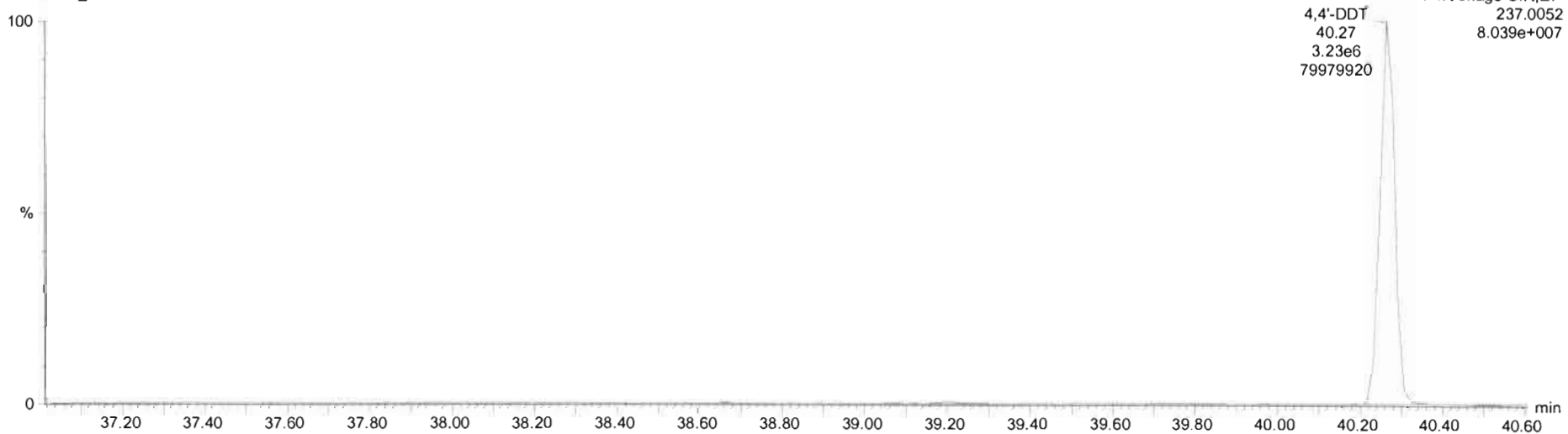
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4,4'-DDT

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

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

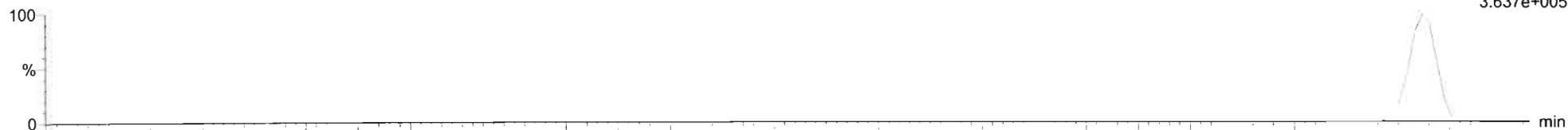
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Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

Hexachlorobenzene

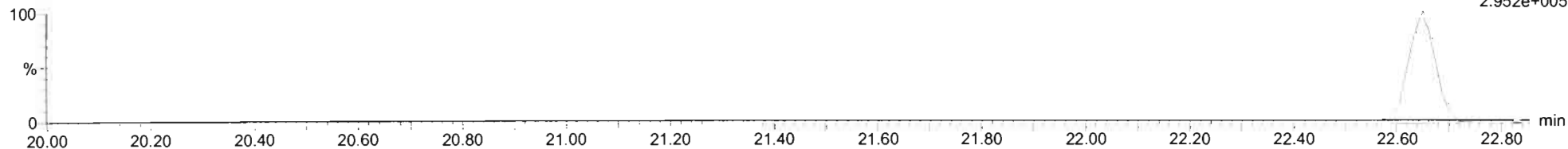
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

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

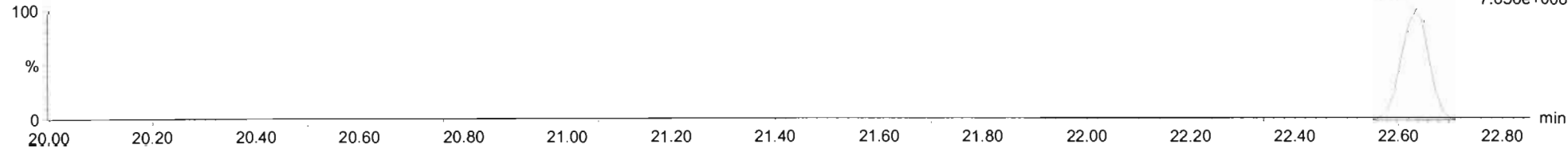
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

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



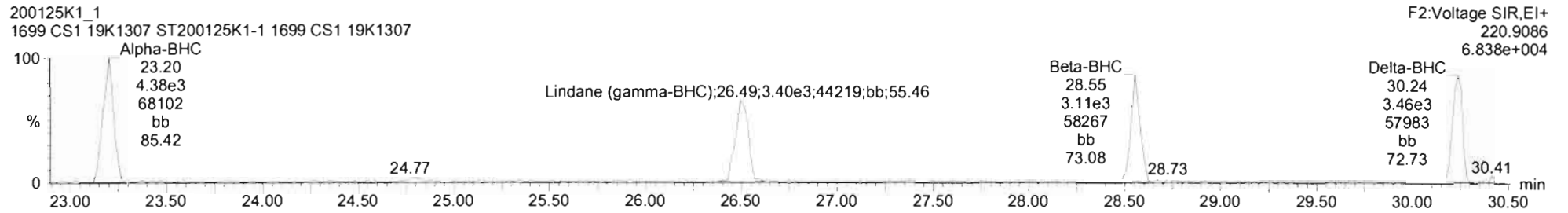
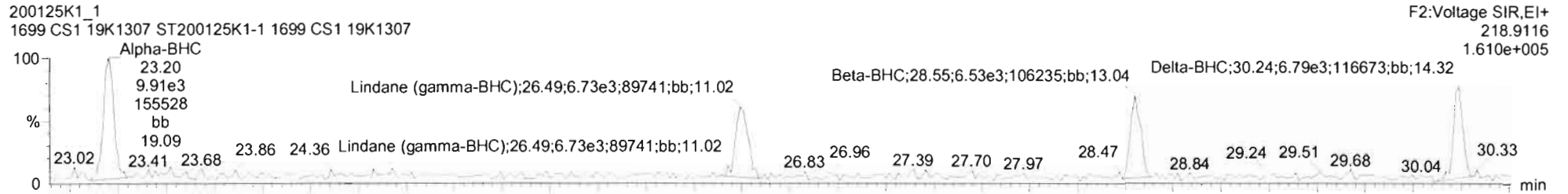
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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

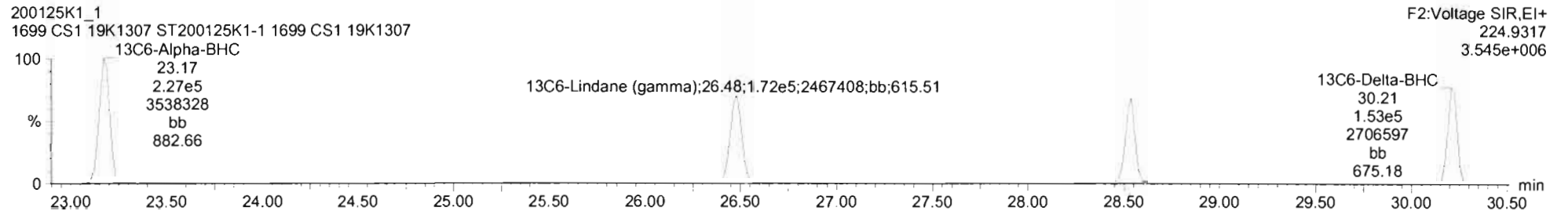
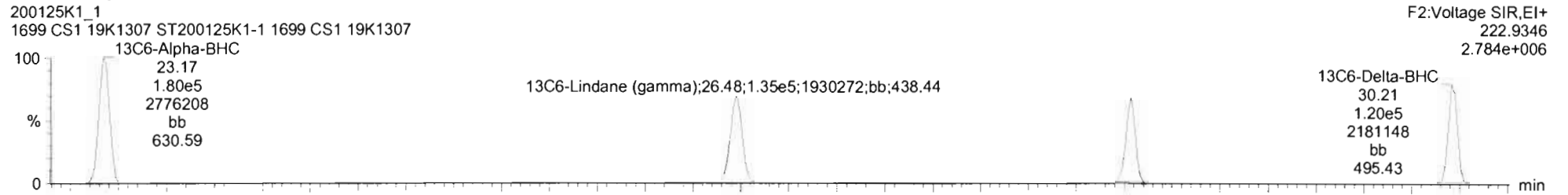
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

BHC Totals

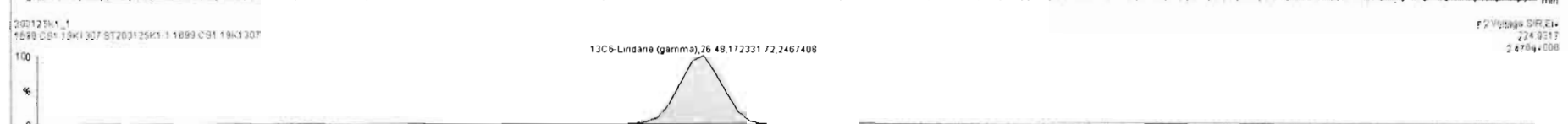
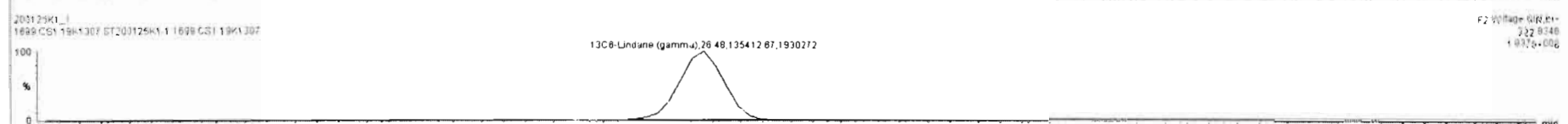
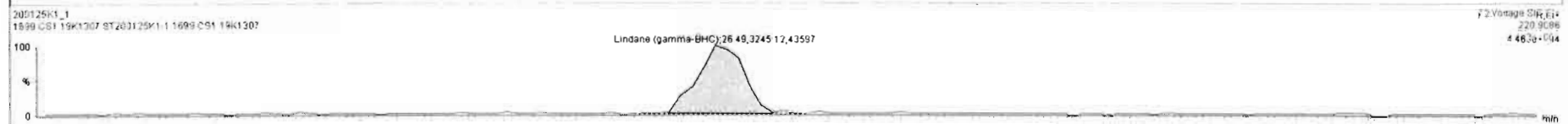
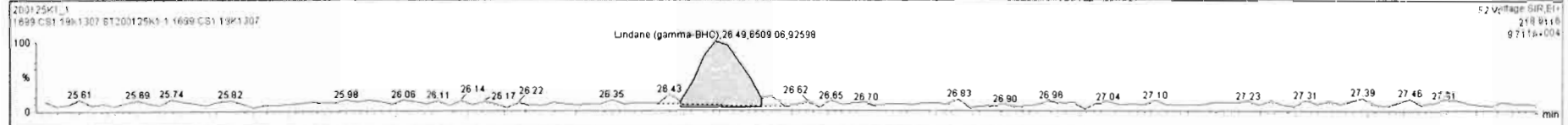


BHC-isotopes



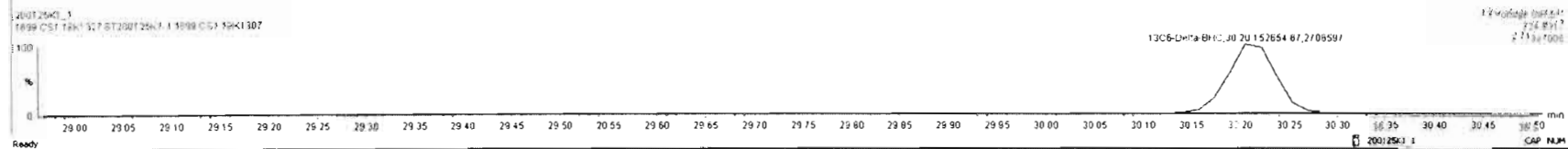
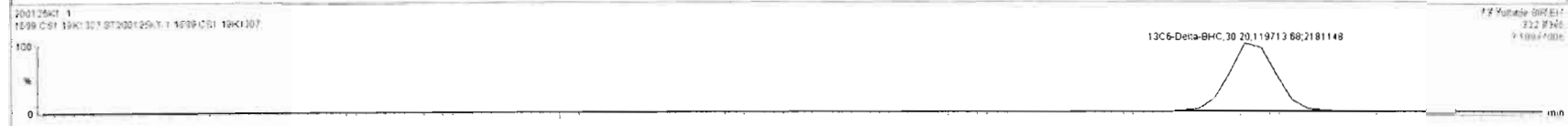
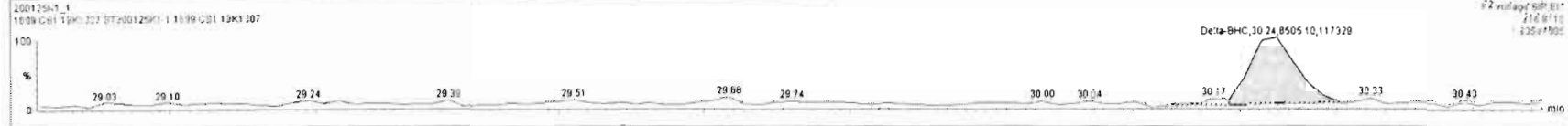
200125K1_1 - ST200125K1_1 1699 CS1 19K1207 - 1699 CS1 19K1207

#	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'-DDU	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 Dicyclohexane	1.96e3	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	1.96e3	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_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	1.000	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	1.82	91.2	0.293	1.82
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	Delta-BHC	8.95e3	2.72e5	36	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

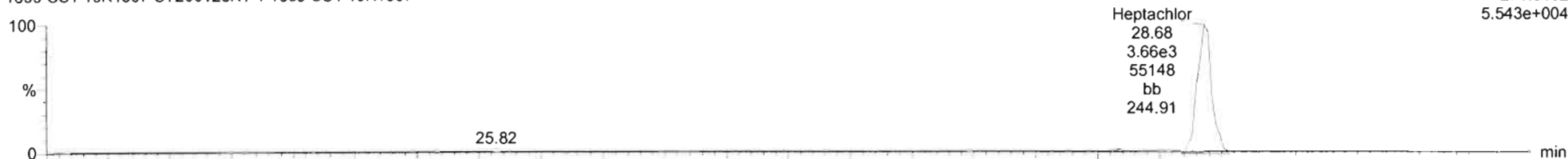
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

Heptachlor

200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

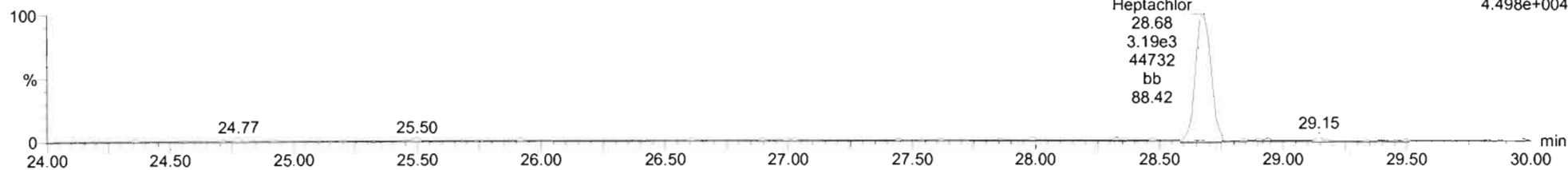
F2:Voltage SIR,EI+
271.8102
5.543e+004



Heptachlor
28.68
3.66e3
55148
bb
244.91

200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F2:Voltage SIR,EI+
273.8072
4.498e+004



Heptachlor
28.68
3.19e3
44732
bb
88.42

13C10-Heptachlor

200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

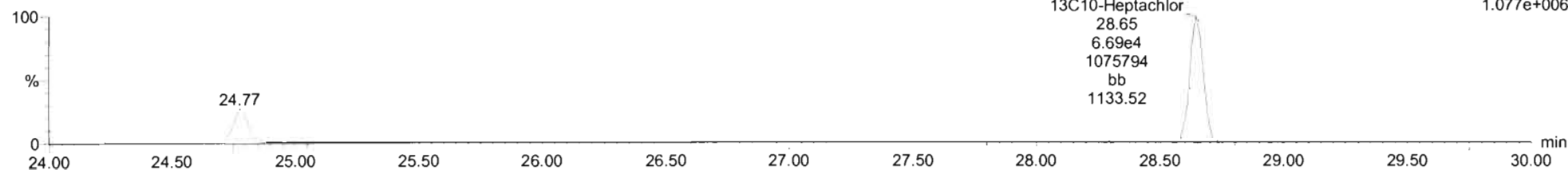
F2:Voltage SIR,EI+
276.8269
1.349e+006



13C10-Heptachlor
28.65
8.50e4
1345907
bb
1769.35

200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F2:Voltage SIR,EI+
278.8240
1.077e+006



13C10-Heptachlor
28.65
6.69e4
1075794
bb
1133.52

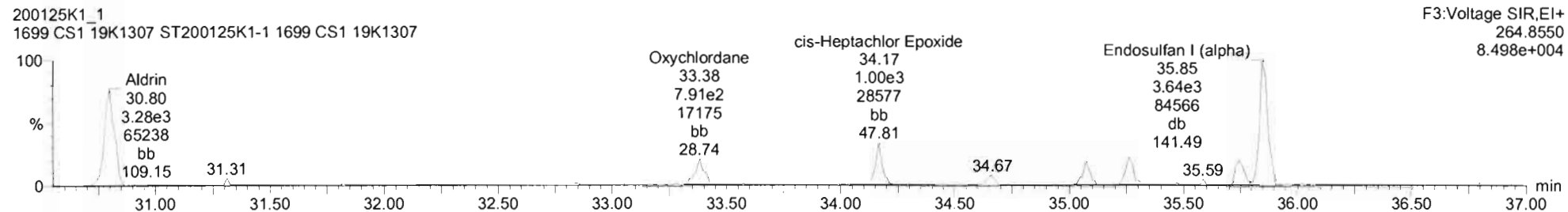
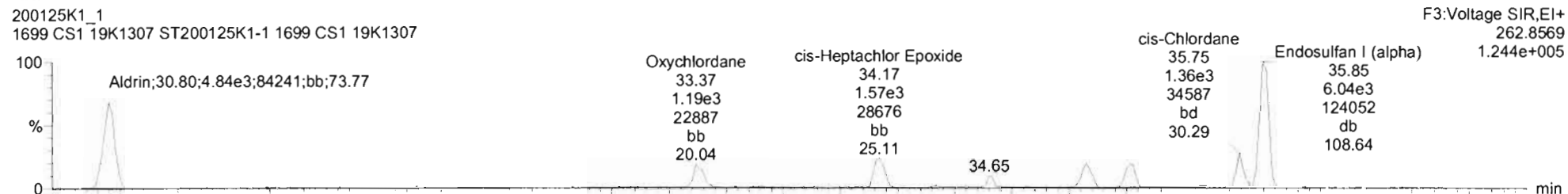
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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

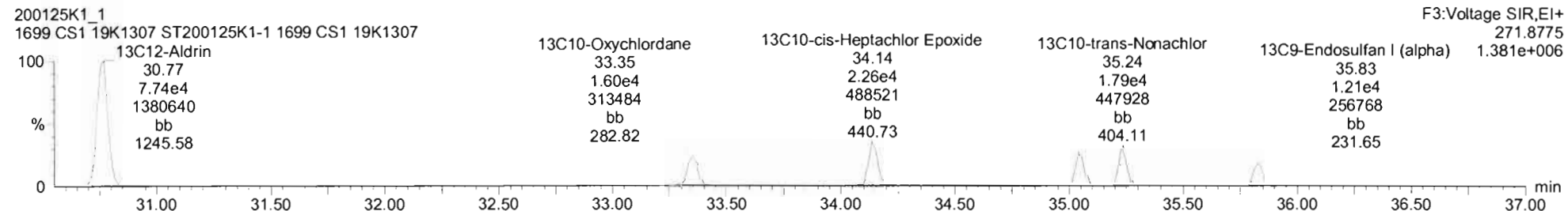
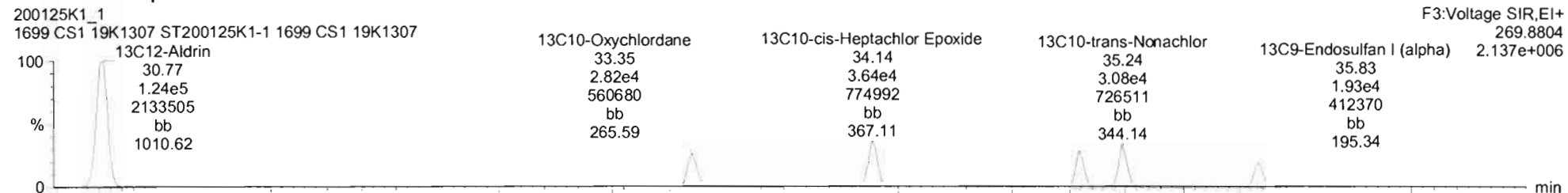
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

Aldrin-EI



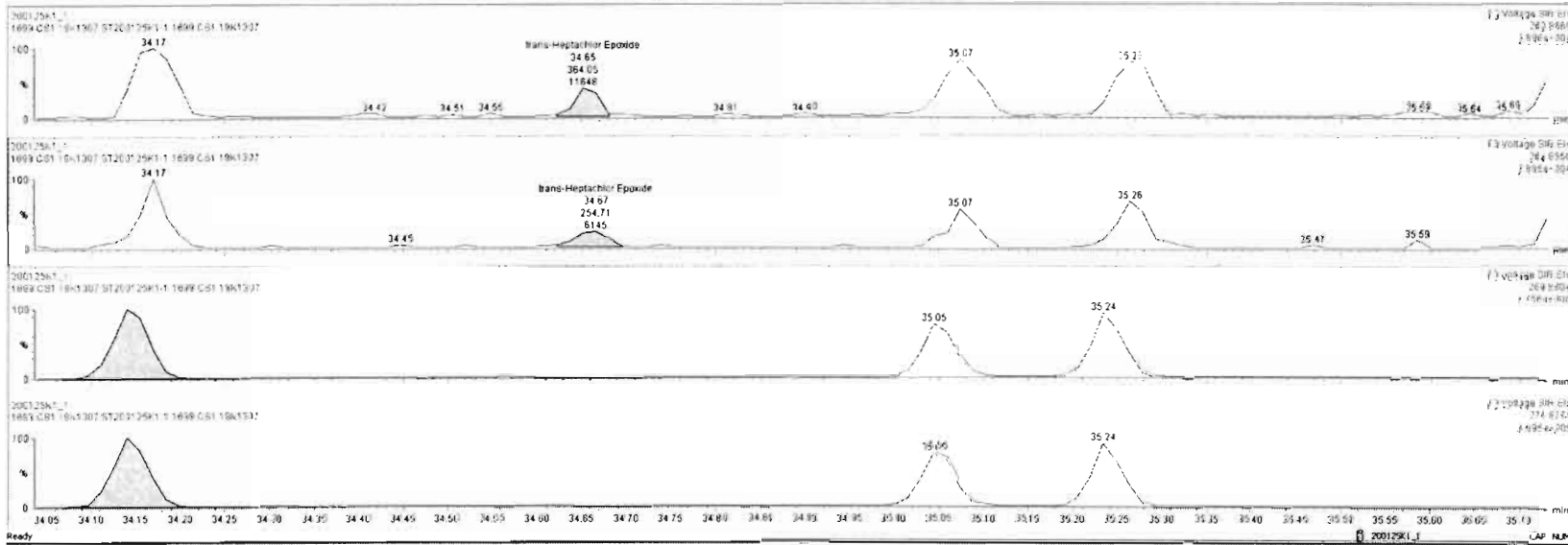
Aldrin-EI-isotopes



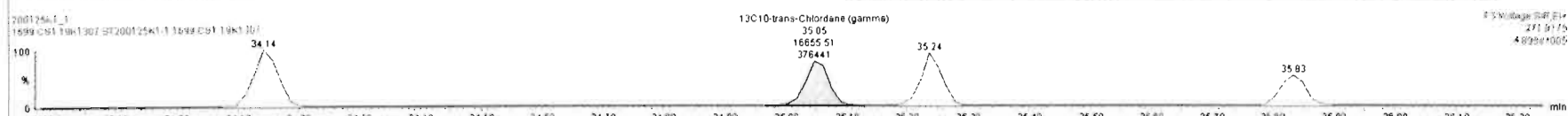
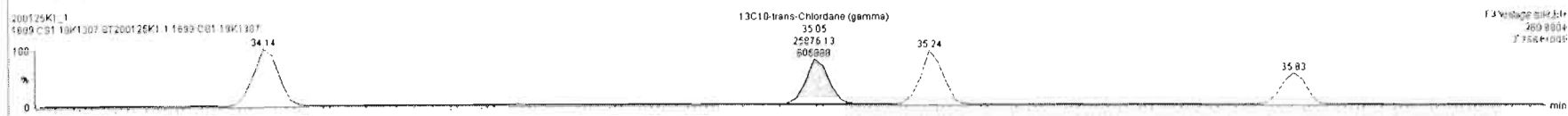
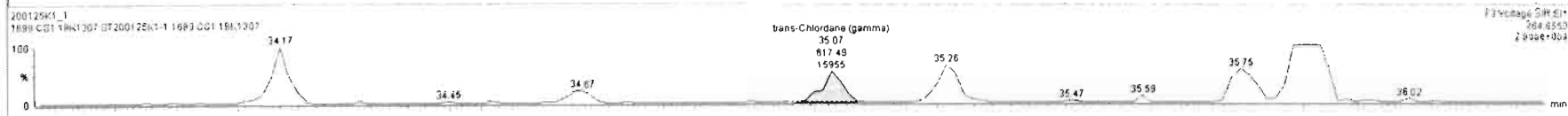
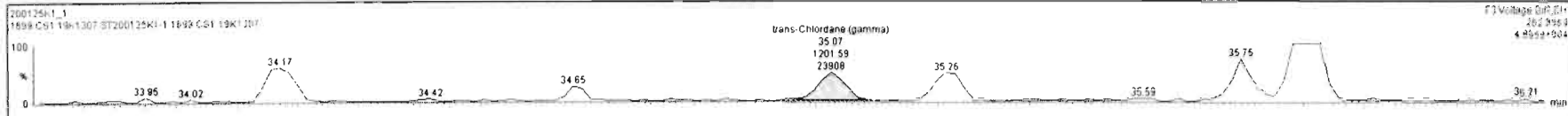
Target1.gnx - 200125K1-CRV.qld [Chromatogram]

200125_1_1 - 5' 200125_1_1-1 1600°C S1 130-1307 - 1630°C S1 130-1307

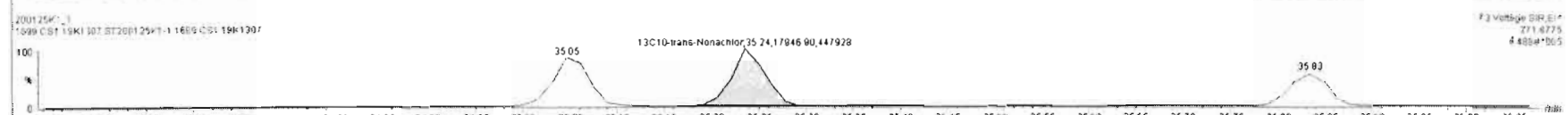
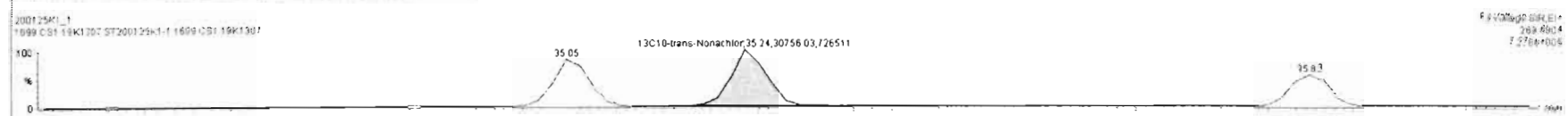
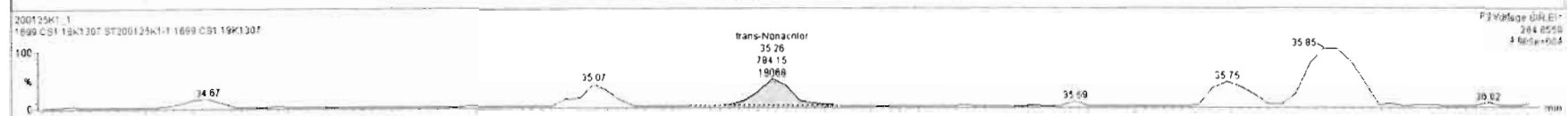
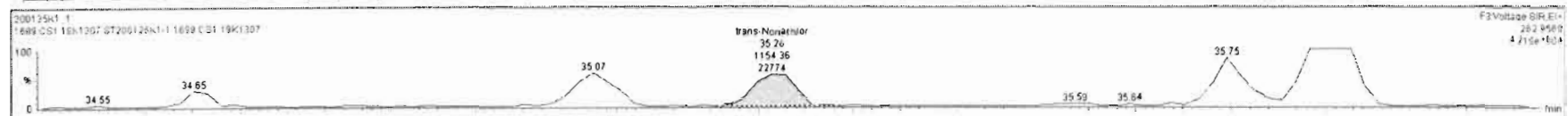
#	Name	Reto	St Reto	CA	RA	ny	RFF	Wt/ht	Prod RT	RT	RRT	Prod RRT	Check RRT	Conc	U/htc	CL	EMPC
1	Hexachlorobutadiene	3.1364	2.2965	33	0.07	YES	0.0339	1.000	9.97	9.98	1.001	1.000	NO	202	2020	0.249	23.9
2	Hexachlorobenzene	4.0164	1.0865	34	1.29	NO	0.5989	1.000	22.66	22.65	1.001	1.001	NO	1.06	93.0	0.005	1.86
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	38	2.69	NO	1.2643	1.000	30.13	30.14	0.998	0.997	NO	1.52	85.9	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	1.91
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	1.7863	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	35.28	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



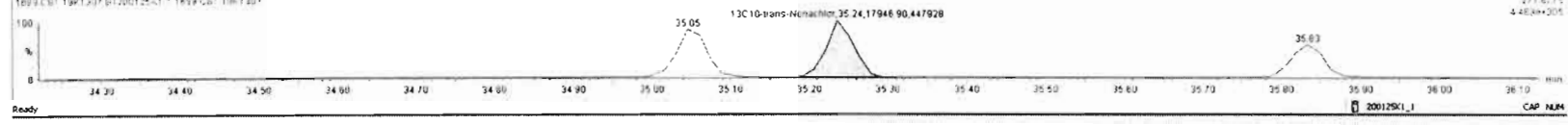
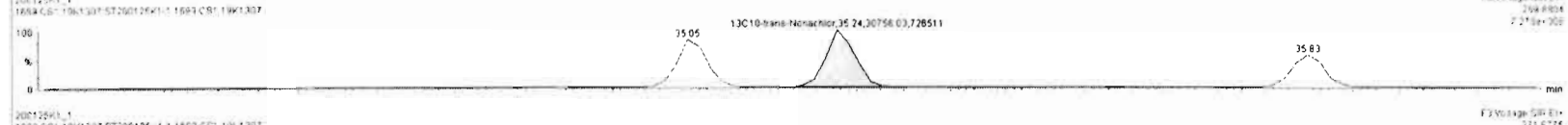
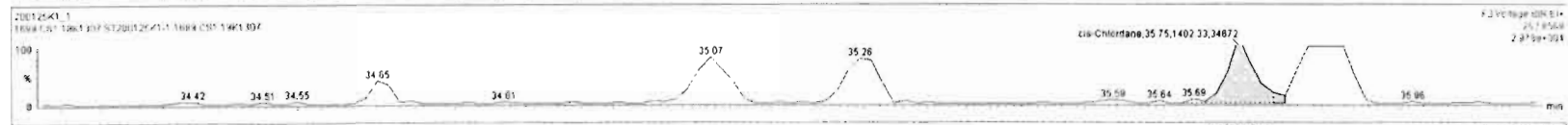
#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtvol	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorocyclopentadiene	3.13e4	2.29e5	33	0.07	YES	0.0339	1.000	9.97	9.99	1.001	1.000	NO	202	2020	0.249	23.9
2	Hexachlorobenzene	4.01e4	1.09e6	34	1.29	NO	0.9999	1.000	22.86	22.85	1.001	1.001	NO	1.86	93.0	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	3.09e5	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	0.0586	1.81
10	Orychlordane	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	1.93	96.4	0.153	1.93
12	trans-Heptachlor Epoxide	6.19e2	5.90e4	42	1.43	NO	0.2603	1.000	34.85	34.65	1.015	1.015	NO	2.01	101	0.0665	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	1.1056	1.000	35.74	35.75	1.015	1.014	NO	1.98	99.0	0.171	1.98
16	Endosulfen I (alpha)	9.09e3	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'-DDE	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



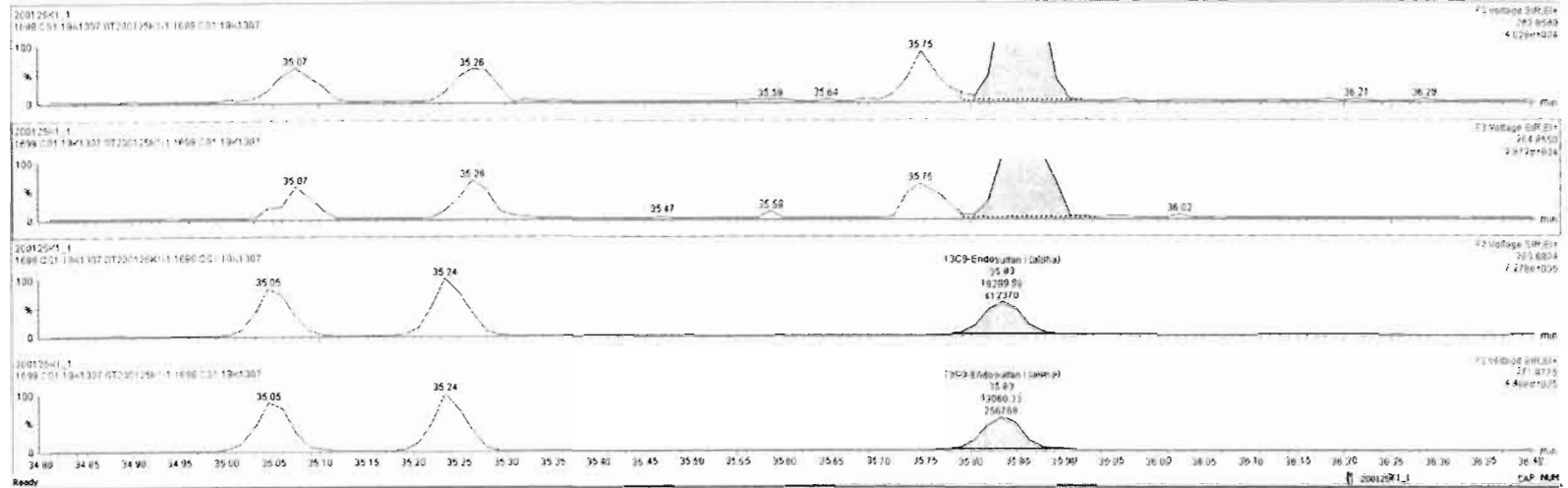
#	Name	Reso	IS Resp	IS#	RA	n/y	RNF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	3.13e4	2.79e6	33	0.07	YES	0.0339	1.000	9.97	9.96	1.001	1.000	NO	202	2020	0.249	23.9
2	Hexachlorobenzene	4.01e4	1.08e6	34	1.29	NO	0.9969	1.000	22.68	22.65	1.001	1.001	NO	1.86	93.0	0.005	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	5.90e4	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	5.90e4	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'-DDE	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	wt/d	Pred RT	RT	RET	Pred 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	1.7364	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	1.1111	1.000	35.80	35.83	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	33.31	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	1.1780	1.000	35.07	35.07	1.001	1.001	NO	1.82	90.8	0.189	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	132	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	Resp	IS Resp	Exp	RA	Inf	RRF	WtAcc	Prod RT	RT	RRT	Pred 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	2020	0.249	23.9
2	Hexachlorocyclopentadiene	4.01e4	1.03e6	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	22.20	1.001	1.002	NO	2.04	102	0.267	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	28.04	1.001	1.000	NO	1.96	39.9	0.255	1.98
6	Delta-BHC	9.99e3	2.72e5	38	1.91	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	1.1056	1.000	35.74	35.75	1.014	1.014	NO	2.04	102	0.171	2.04
16	Endosulfan (alpha)	8.54e3	3.14e5	45	1.86	NO	1.1556	1.000	36.85	36.96	1.000	1.001	NO	13.2	132	0.281	13.2
17	4'-C-COHL	2.73e4	1.16e6	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	1.16e6	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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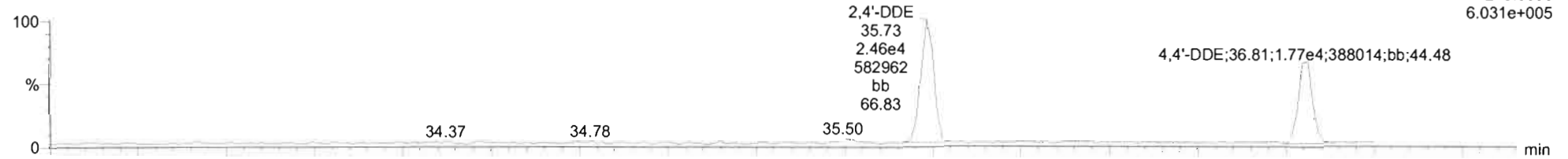
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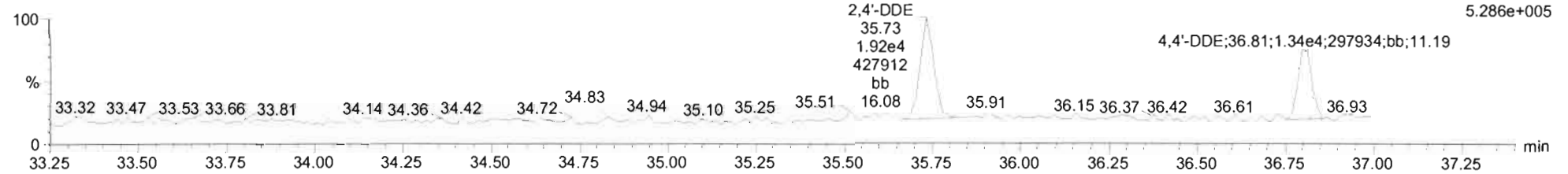
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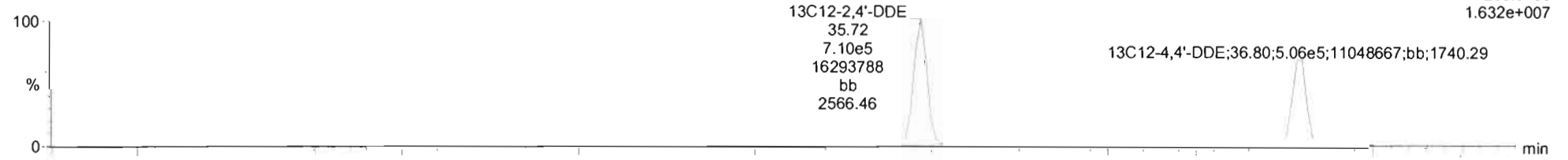
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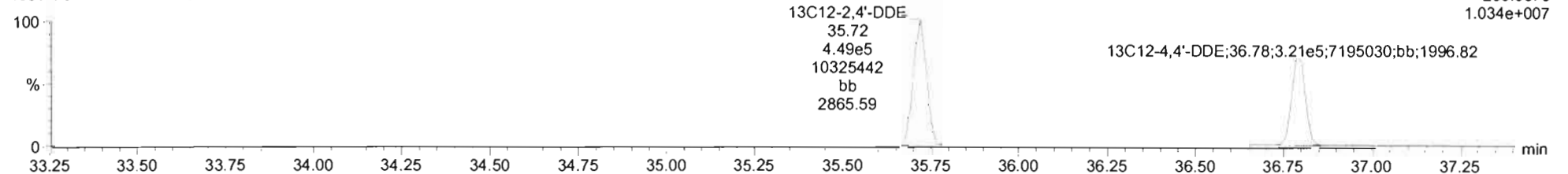
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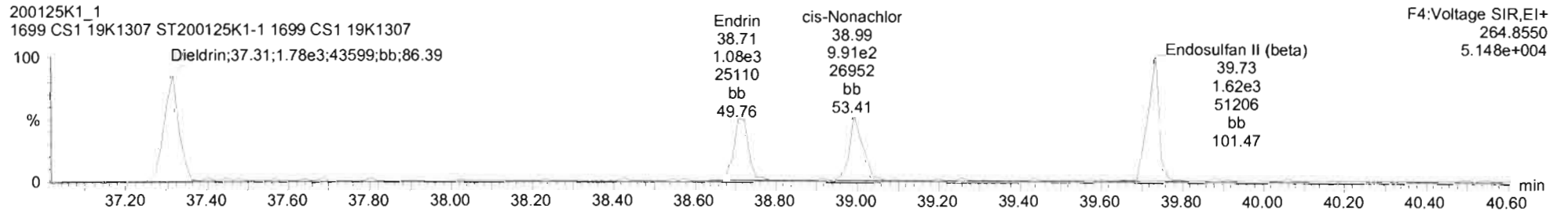
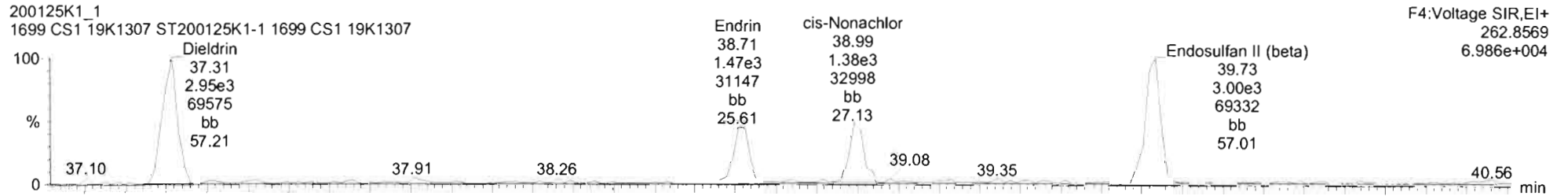
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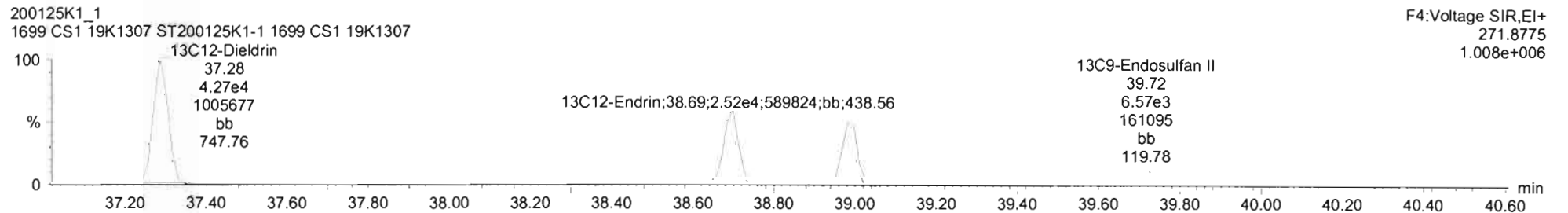
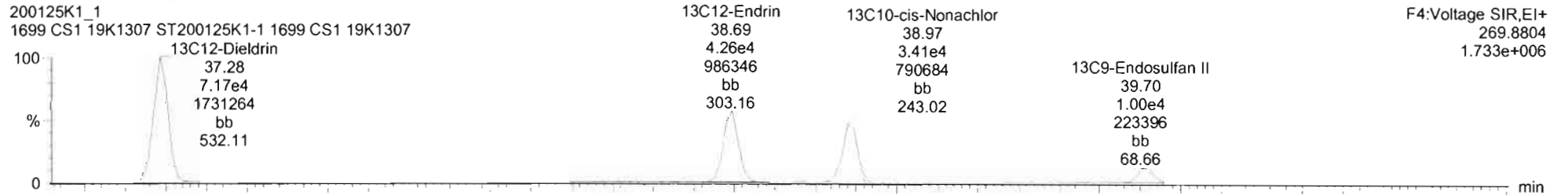
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Dieldrin-Ell



Dieldrin-Ell-isotopes



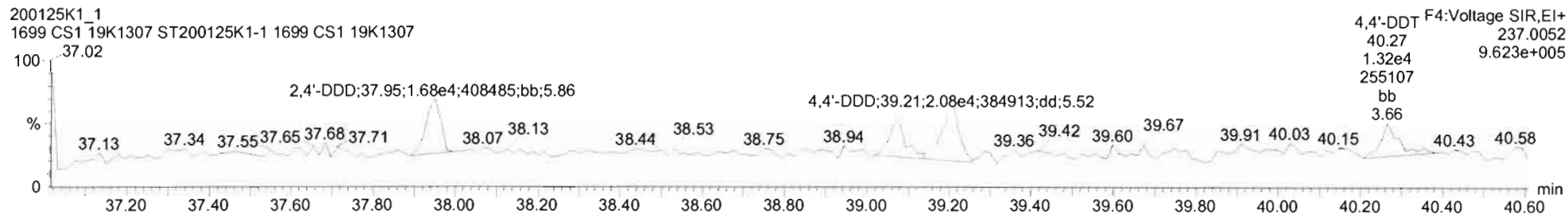
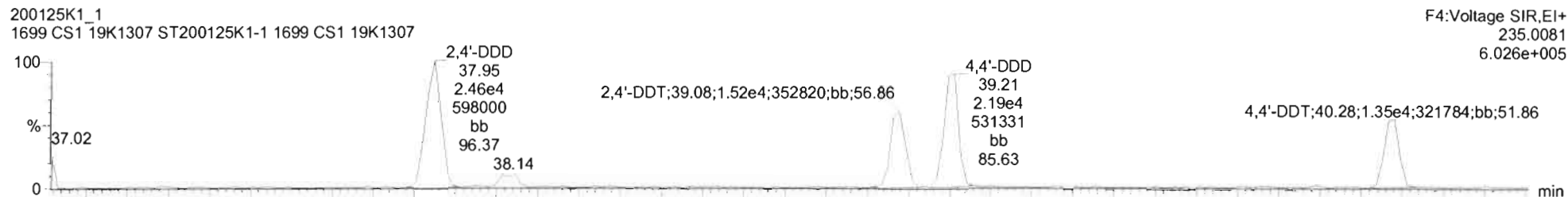
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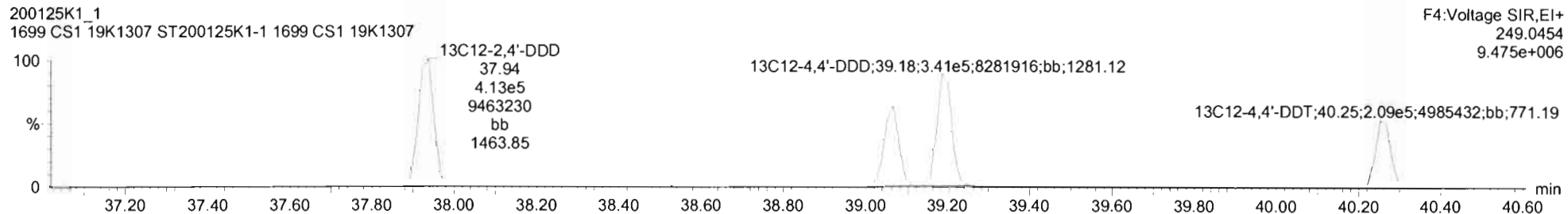
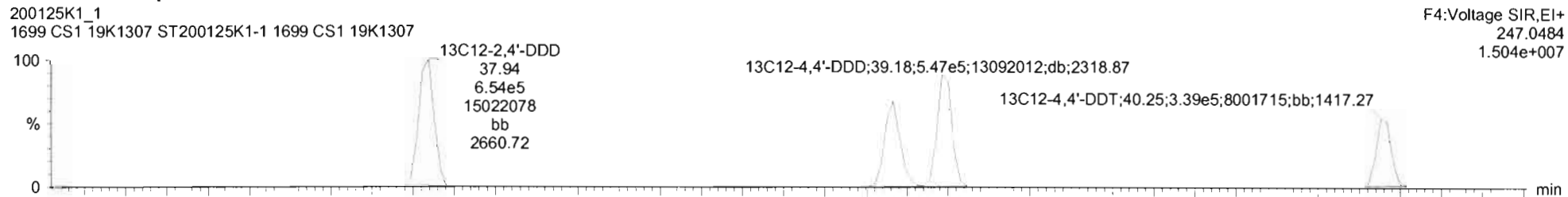
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Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

DDD-DDT

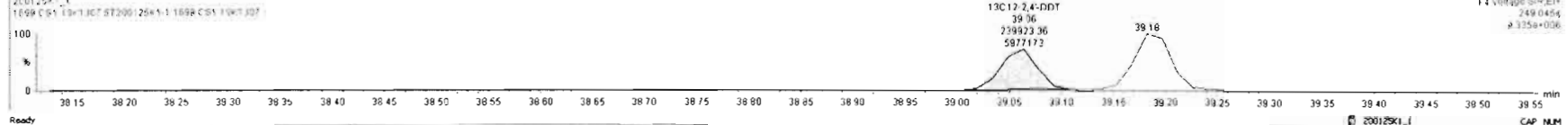
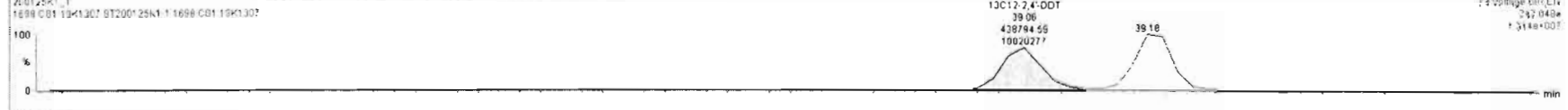
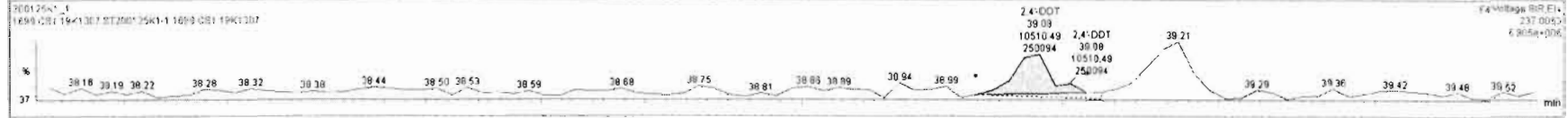


DDD-DDT-isotopes

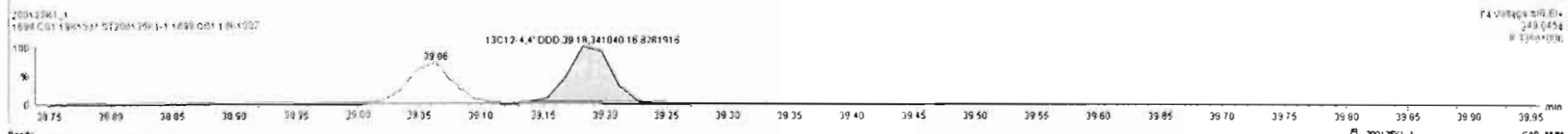
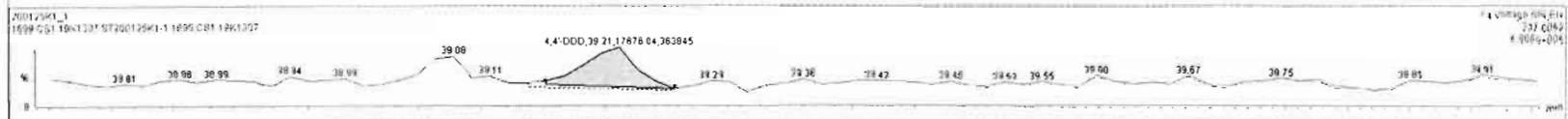


200125K1_1_ ST200125K1_1-1 1699 C01 13K1307 - 1699 C01 13K1307

#	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	Endrin	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	cis-Nonachlor	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	Endosulfan II (beta)	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	2,4'-DDO	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	2,4'-DDT	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	4,4'-DDO	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	4,4'-DDT	2.43e4	5.47e5	55	1.25	NO	1.1376	1.000	40.27	40.28	1.001	1.000	NO	1.85	97.4	0.645	1.85
28	28	Endosulfan Sulfate	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	4,4'-Methoxychlor	1.51e5	6.22e6	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	Heptachlor	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	Endrin Alderlactone	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	Endrin Ketone	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	13C4-Hexachlorobutadiene	2.29e6	1.59e6	62	1.26	NO	0.1267	1.000	9.95	9.97	0.384	0.383	NO	583	114	0.0388	
34	34	13C6-Hexachlorobenzene	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	13C6-Alpha-BHC	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	13C6-Lindane (gamma)	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	13C6-Beta-BHC	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	

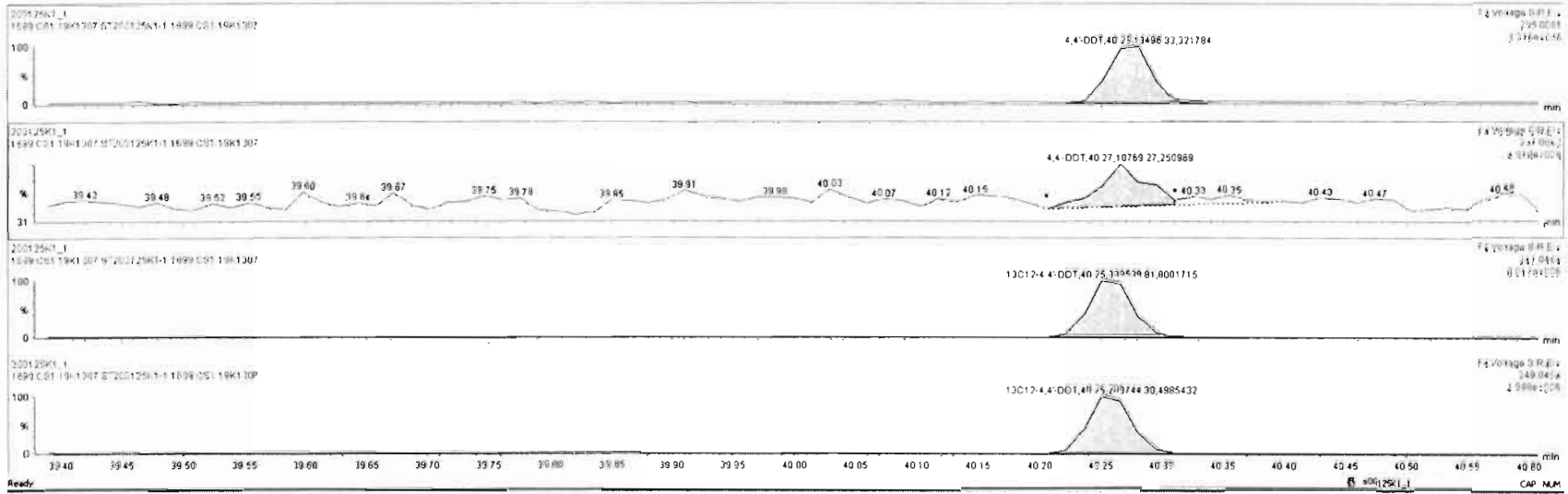


#	Name	Resp	IS Resp	CF	RA	WV	RRF	WtVol	Prod#1	RT	RRT	Prod#2	Check RRT	Conc	%Rec	DL	EMPC
20	Endrin	4.72e3	1.14e5	48	1.88	NO	1.0834	1.000	37.30	37.31	1.001	1.000	NO	1.89	94.4	0.0713	1.99
21	Endrin	2.66e3	6.79e4	49	1.97	NO	1.0566	1.000	38.89	38.71	1.000	1.000	NO	1.78	89.1	0.130	1.78
22	Endrin	2.37e3	5.51e4	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	1.66e4	51	1.85	NO	1.1100	1.000	39.70	39.73	1.001	1.000	NO	1.21	125	0.524	1.25
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	3.96e4	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	0.15	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	1.97	NO	1.0435	1.000	43.91	43.90	1.000	1.000	NO	1.06	93.2	0.0318	1.06
31	Endrin Aklityxin	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 Kelline	9.15e3	4.95e5	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	0.984	0.983	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-BHC	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	98.6	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	Check 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	1.25	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	82.4	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)	1.08e5	1.59e6	62	0.79	NO	0.2807	1.000	26.46	26.48	1.019	1.018	NO	48.3	96.5	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

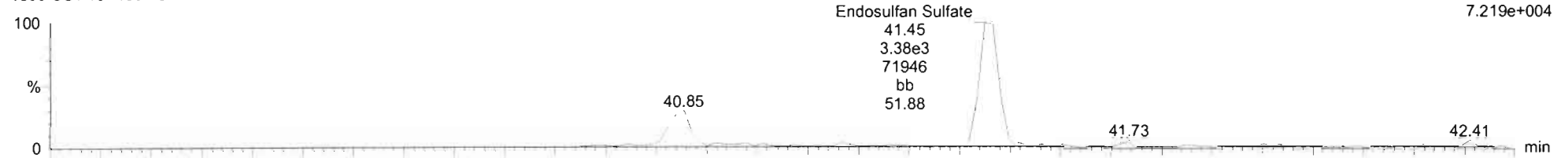
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

Endosulfan Sulfate

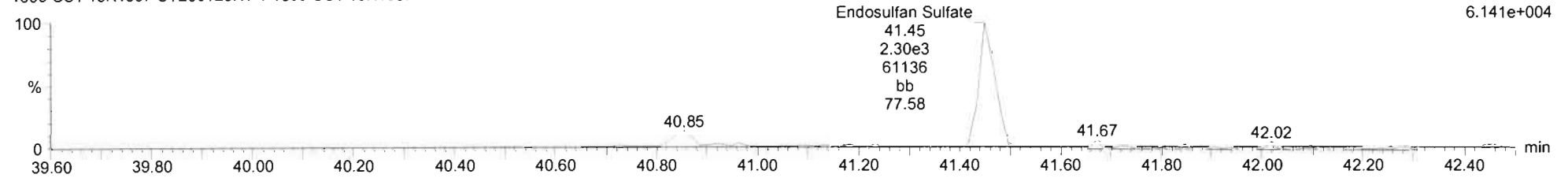
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
262.8569
7.219e+004



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

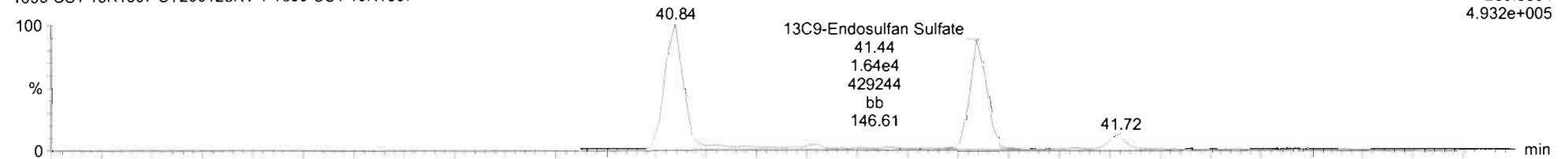
F5:Voltage SIR,EI+
264.8540
6.141e+004



13C9-Endosulfan Sulfate

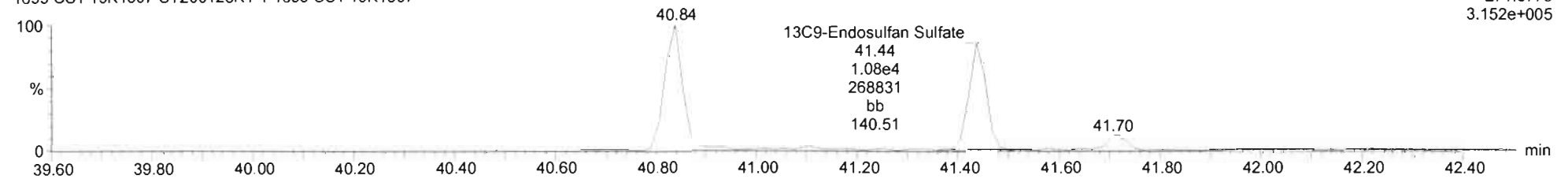
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

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

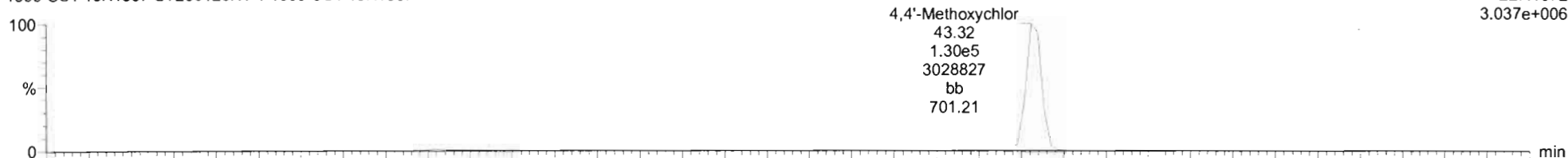
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

4,4'-Methoxychlor

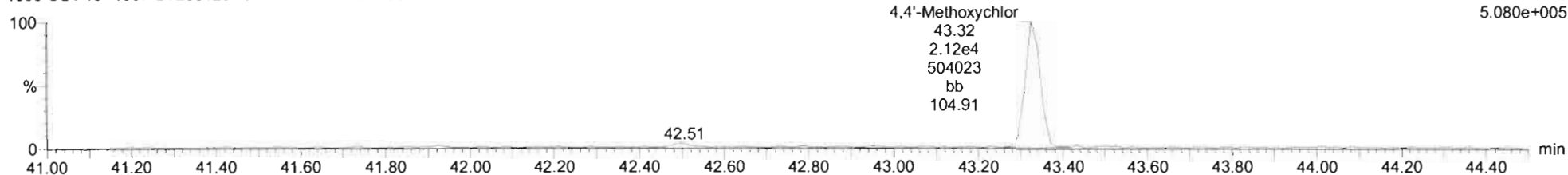
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
227.1072
3.037e+006



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

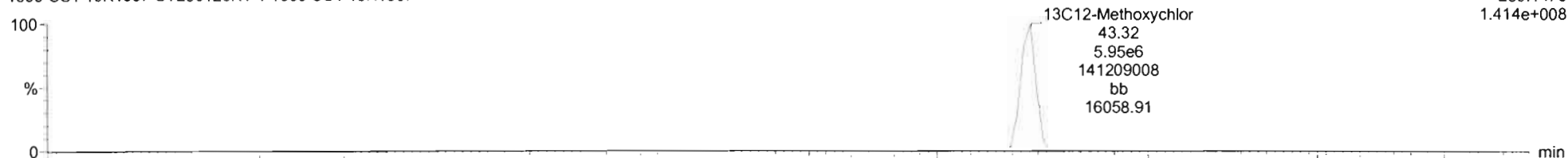
F5:Voltage SIR,EI+
228.1106
5.080e+005



13C12-Methoxychlor

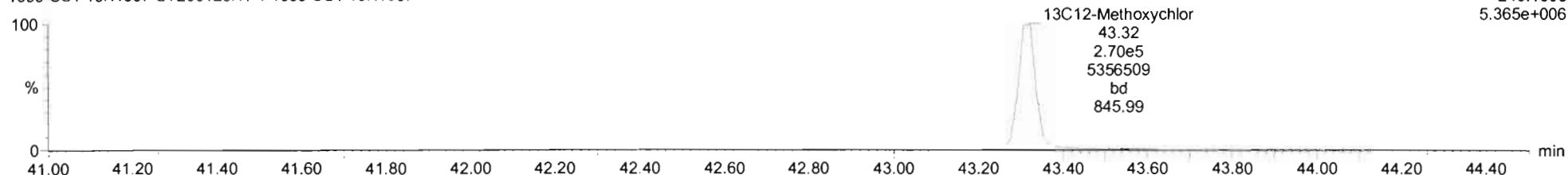
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

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

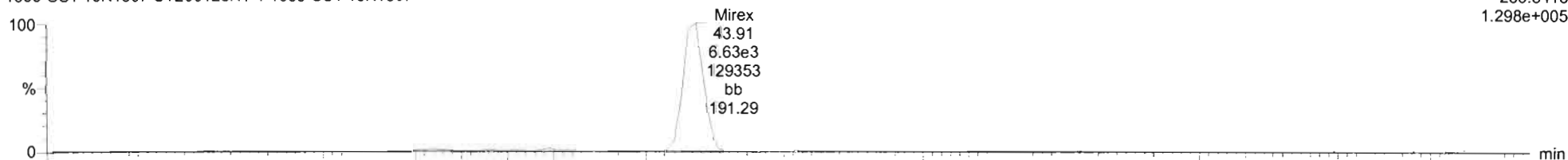
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

Mirex

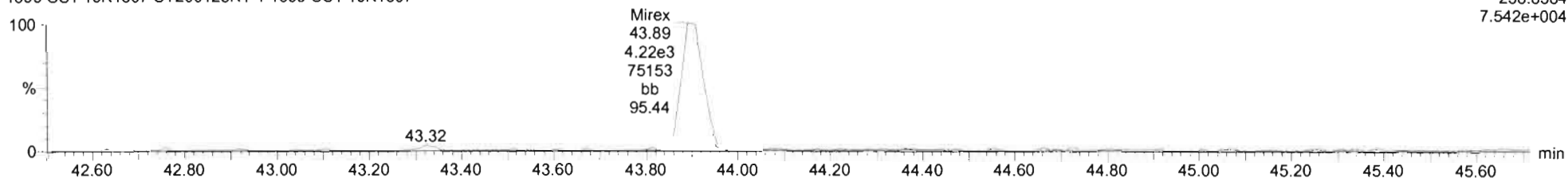
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
236.8413
1.298e+005



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

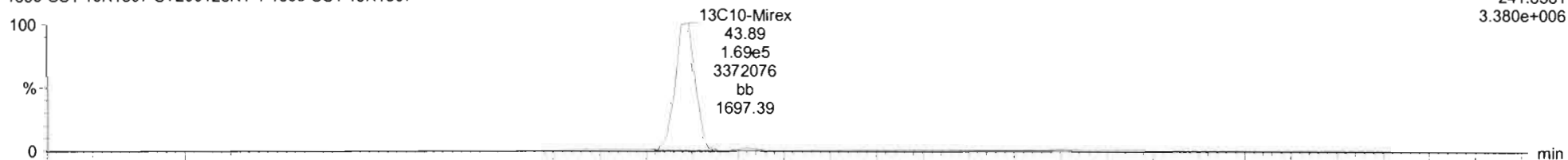
F5:Voltage SIR,EI+
238.8384
7.542e+004



13C10-Mirex

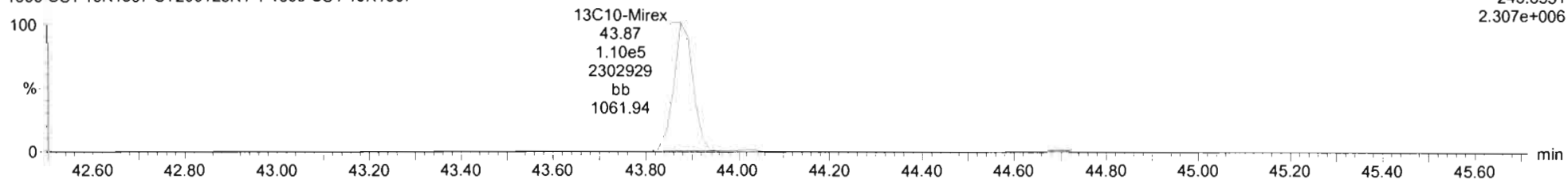
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

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

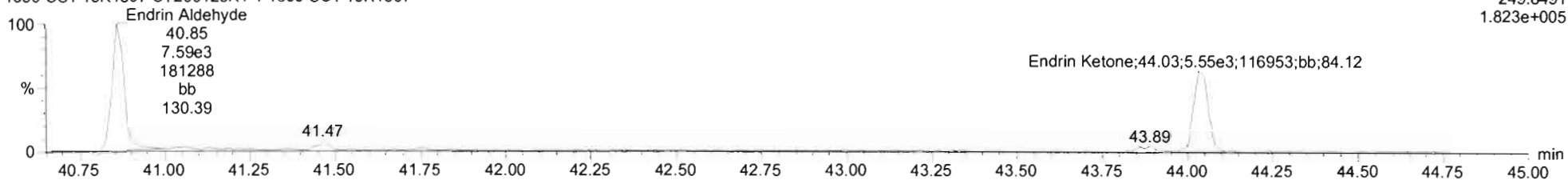
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
247.8521
1.083e+005



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

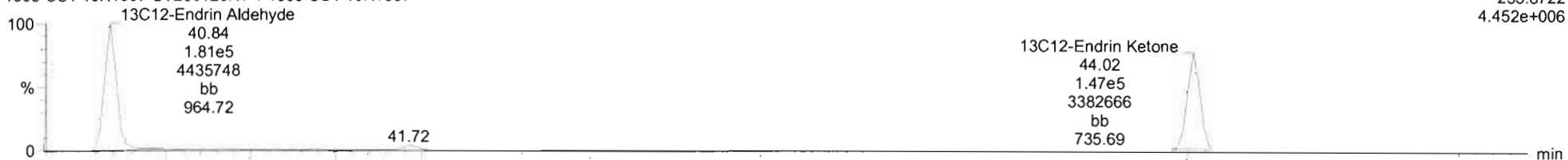
F5:Voltage SIR,EI+
249.8491
1.823e+005



EA-EK-isotopes

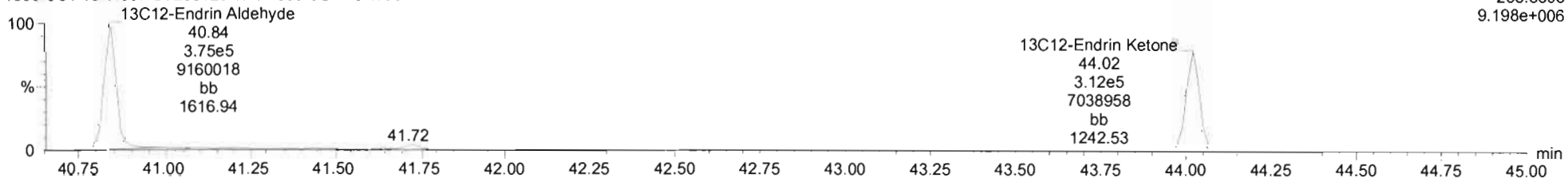
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
253.8722
4.452e+006

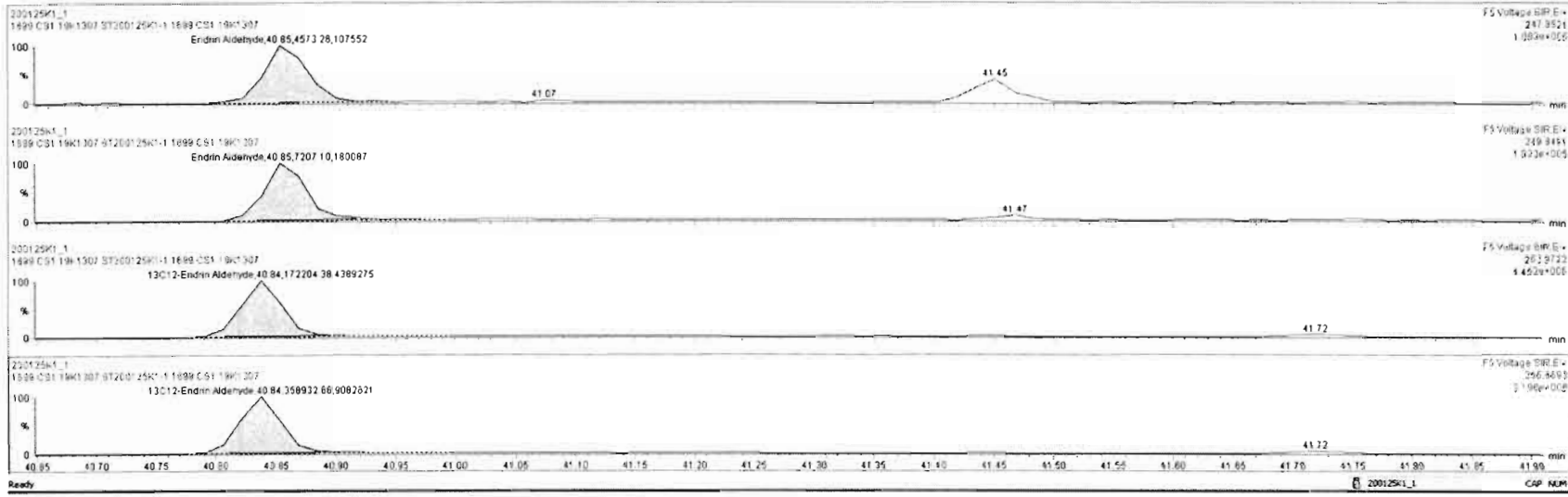


200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
255.8693
9.198e+006



#	Name	Resp	IS Resp	IS#	RA	RF#	RF#	wtVol	ProdRT	RT	PRT	ProdPRT	CheckPRT	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	Chlorobenzene	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	4,4'-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	1.34	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	9.68e3	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	6.22e5	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	Mex	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	2.29e6	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-Lindene (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

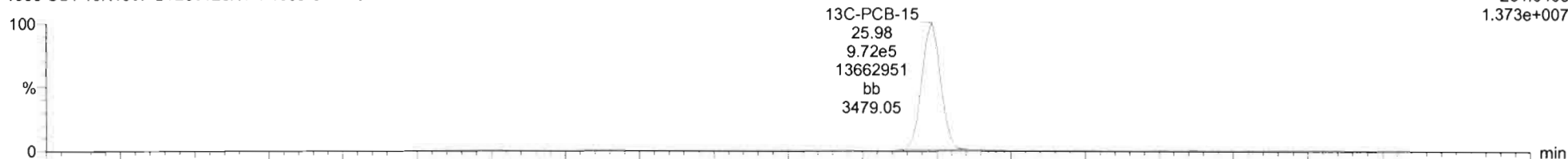
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

13C-PCB-15

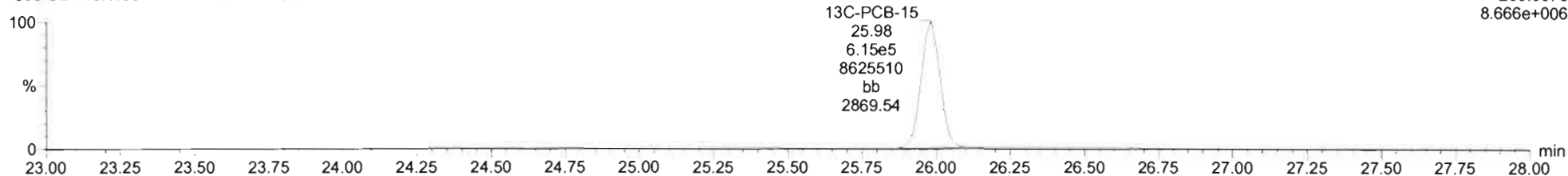
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F2:Voltage SIR,EI+
234.0406
1.373e+007



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

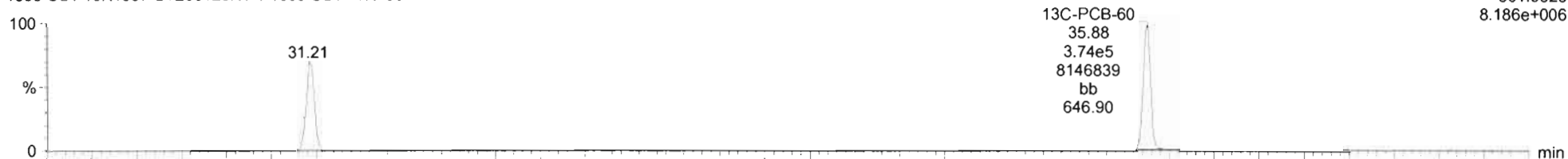
F2:Voltage SIR,EI+
236.0376
8.666e+006



13C-PCB-60

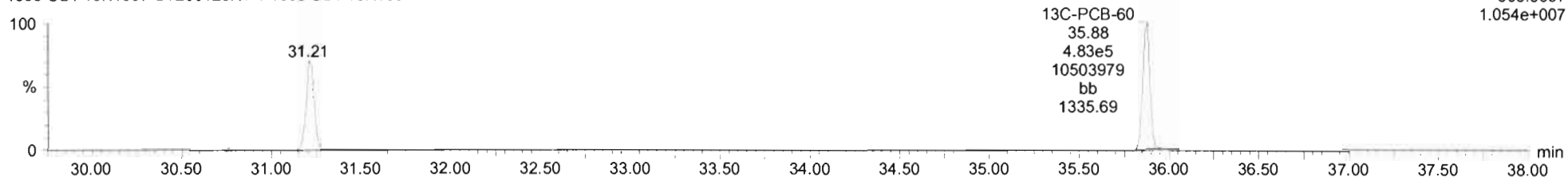
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

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

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

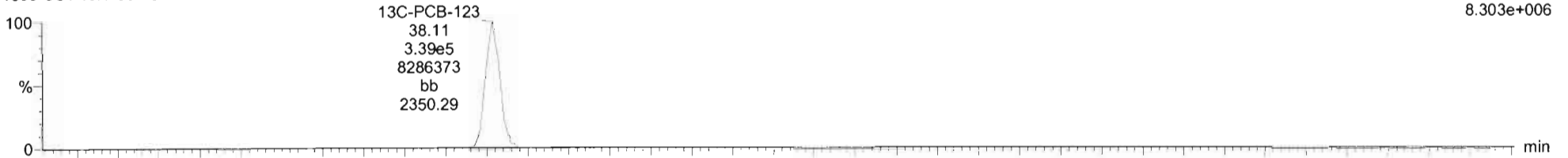
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Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

13C-PCB-123

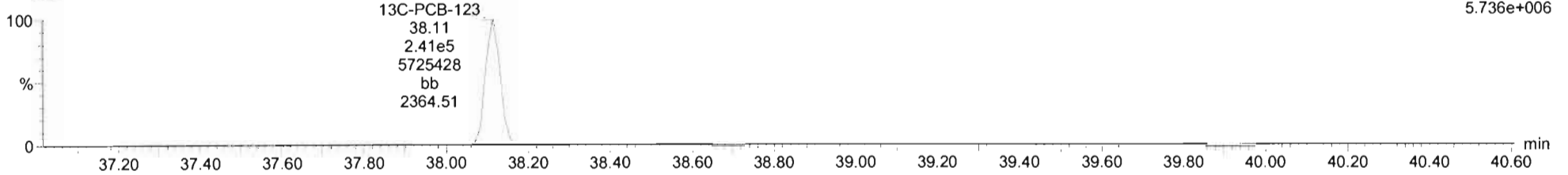
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F4:Voltage SIR,EI+
337.9210
8.303e+006



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

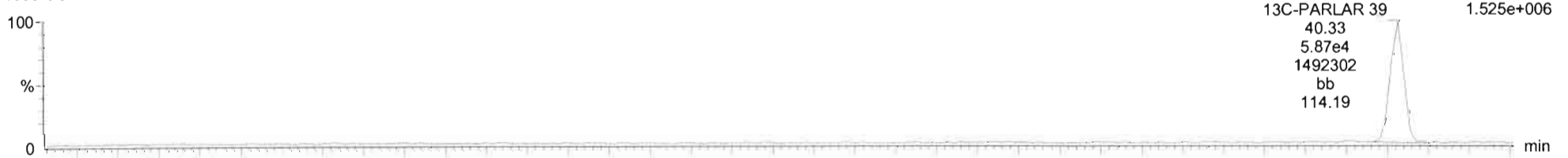
F4:Voltage SIR,EI+
339.9180
5.736e+006



13C-PARLAR 39

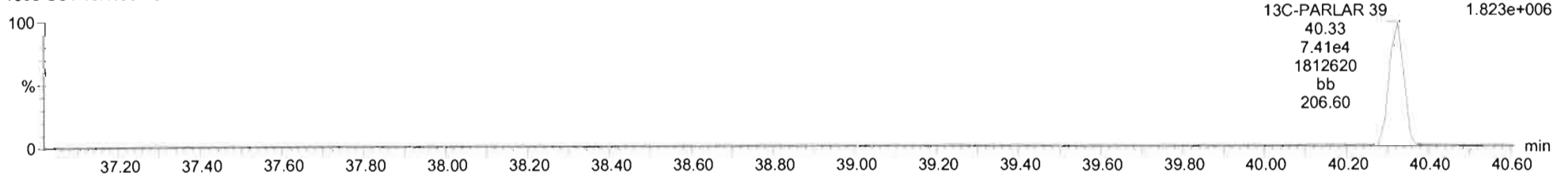
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

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



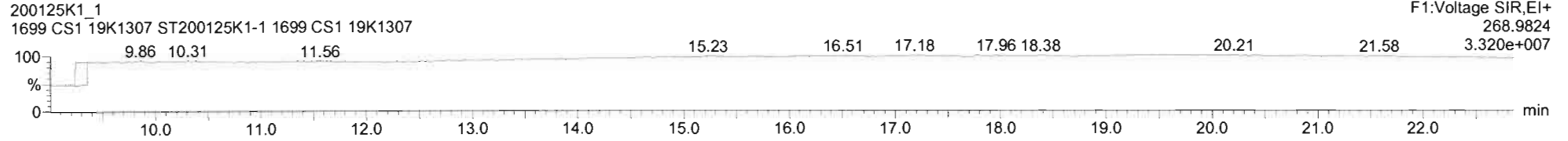
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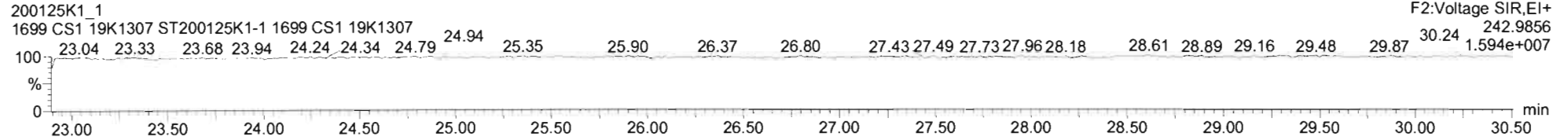
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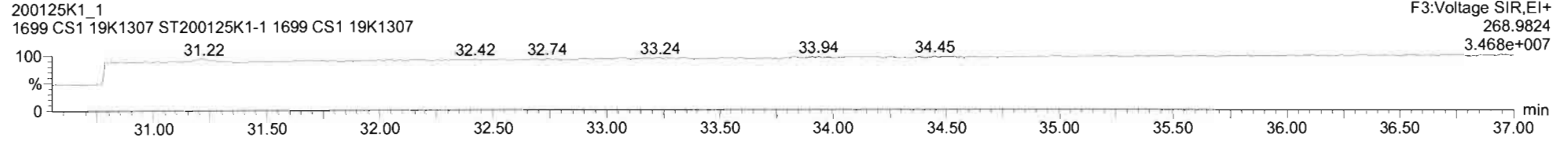
PFK1



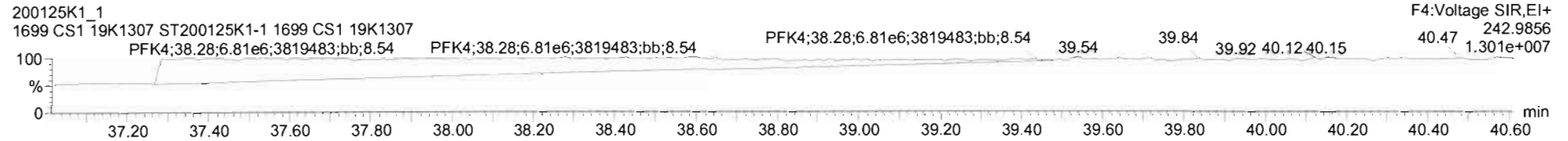
PFK2



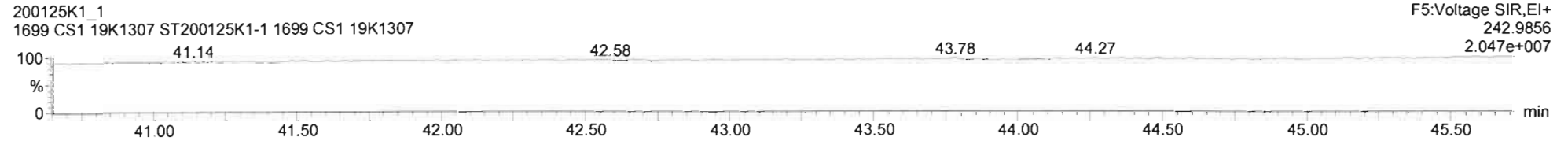
PFK3



PFK4



PFK5



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

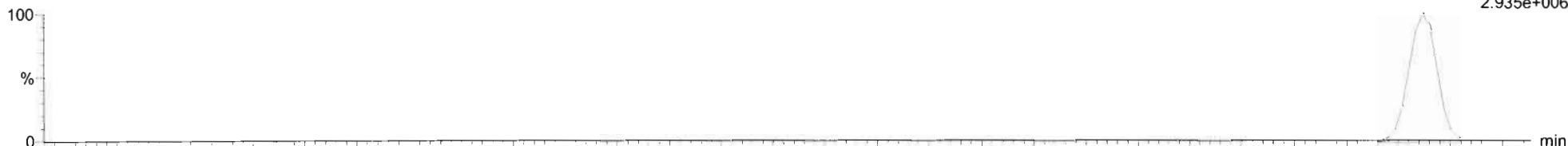
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Hexachlorobenzene

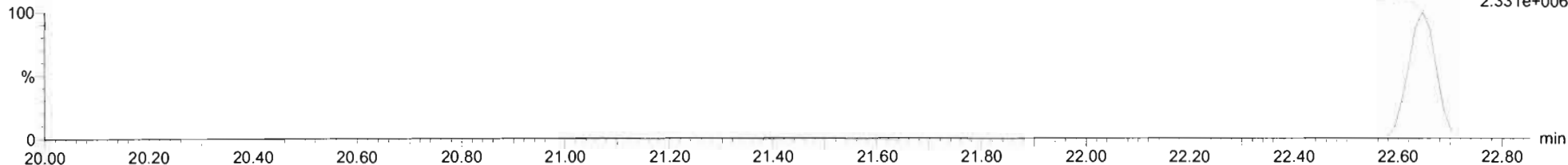
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

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

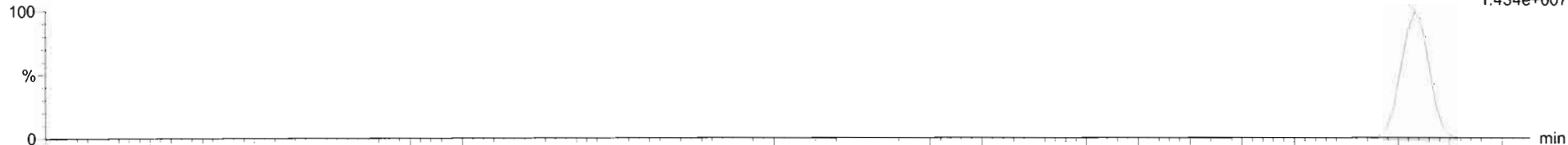
F1:Voltage SIR,EI+
Hexachlorobenzene;22.65;1.46e5;2328197;bb;4924.89
285.8072
2.331e+006



13C6-Hexachlorobenzene

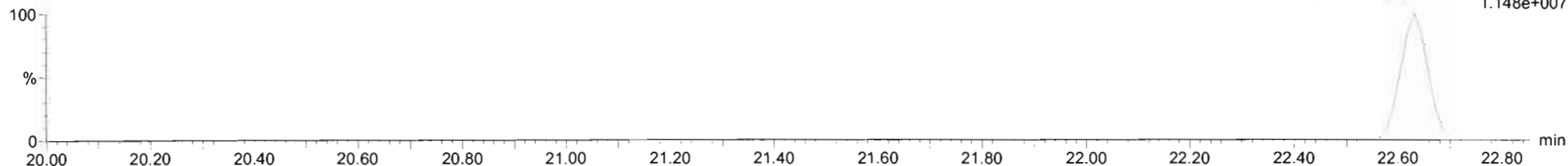
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

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



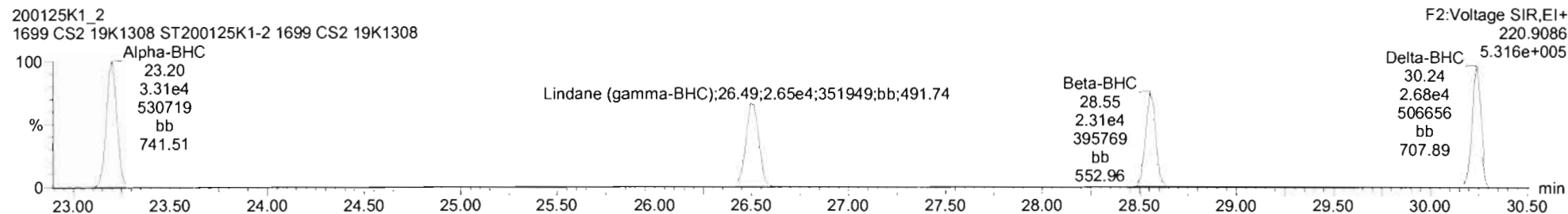
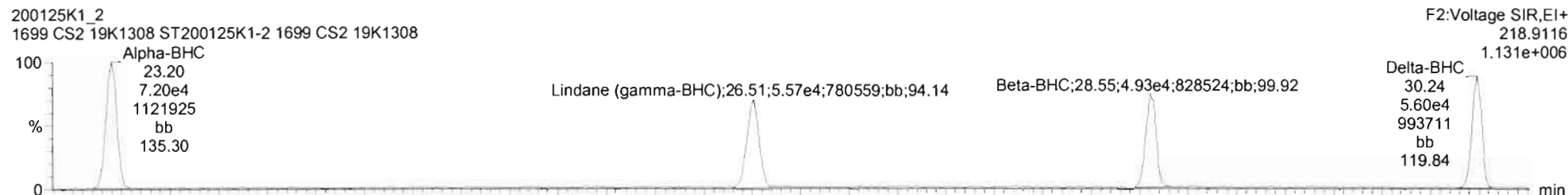
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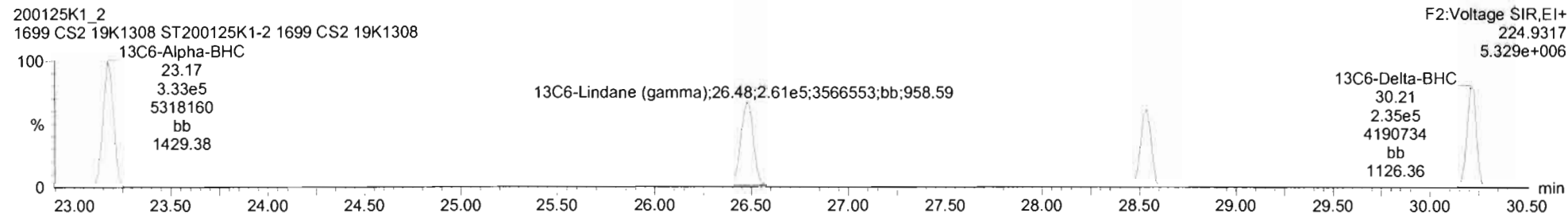
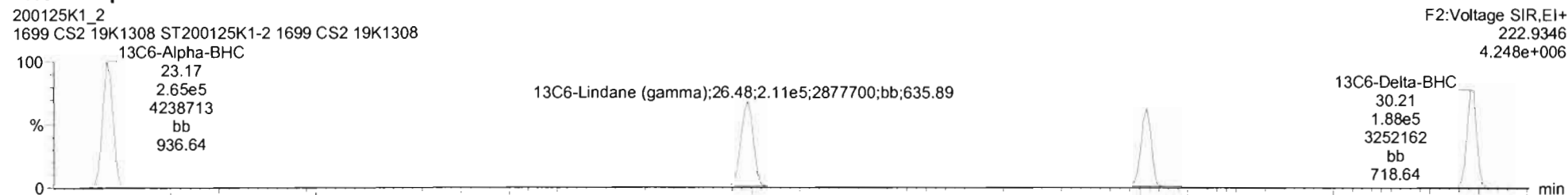
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Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

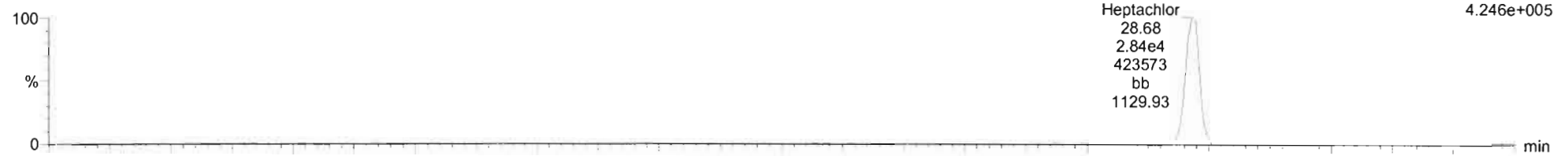
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Heptachlor

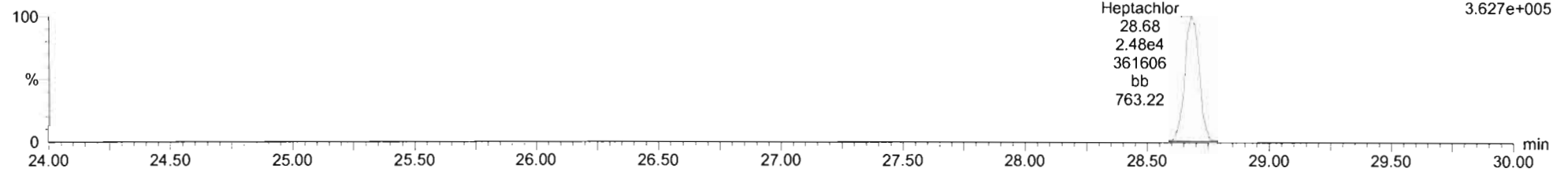
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F2:Voltage SIR,EI+
271.8102
4.246e+005



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

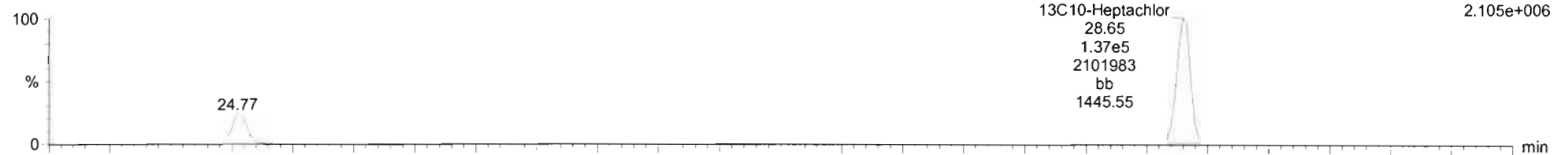
F2:Voltage SIR,EI+
273.8072
3.627e+005



13C10-Heptachlor

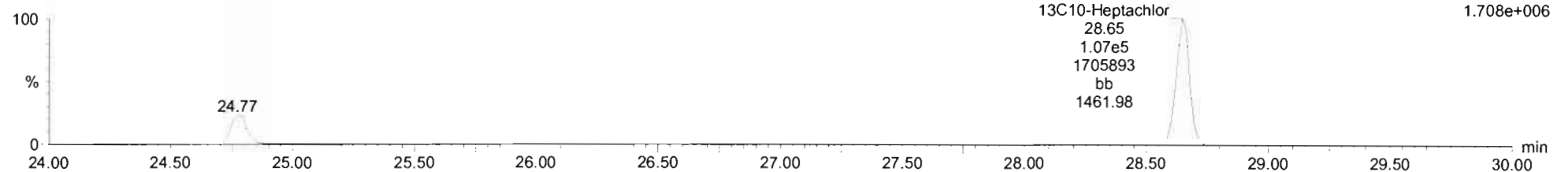
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

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

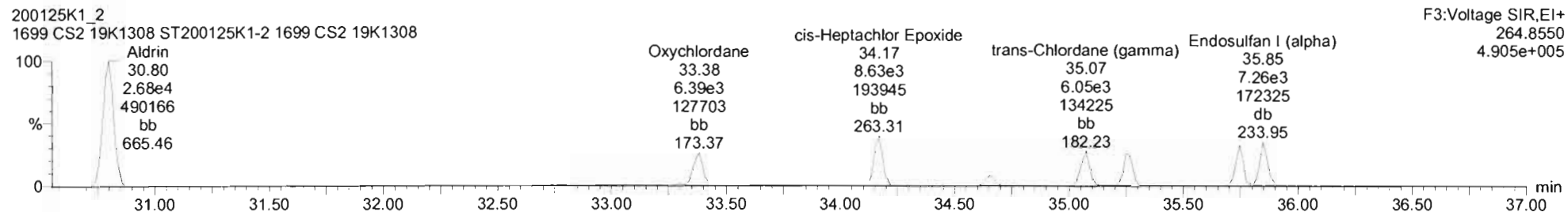
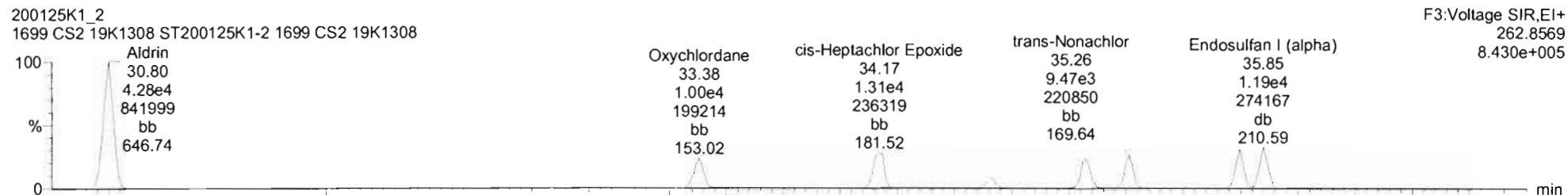


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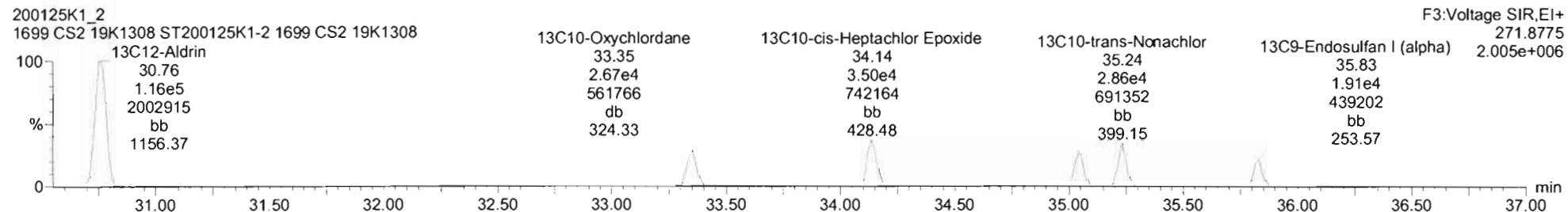
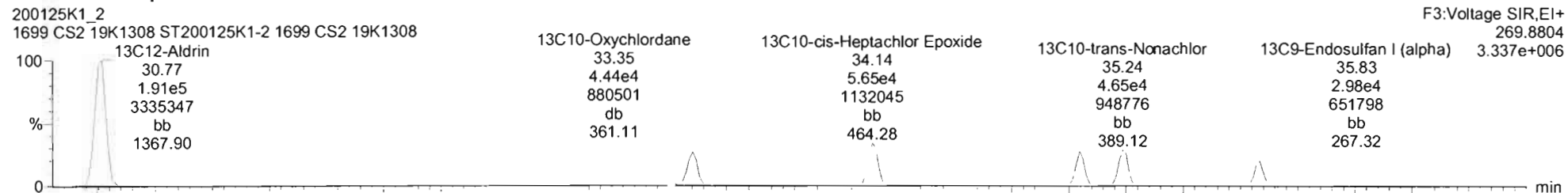
Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time
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Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

Aldrin-EI

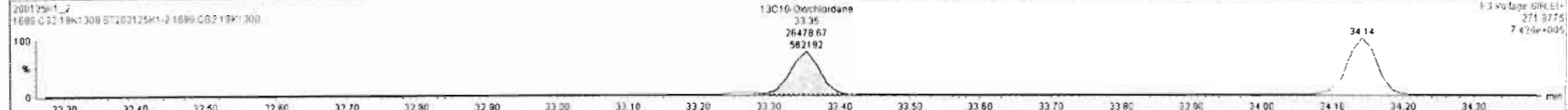
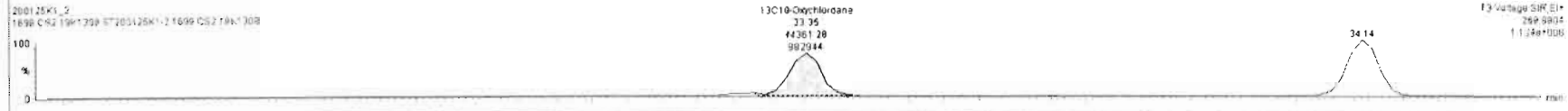
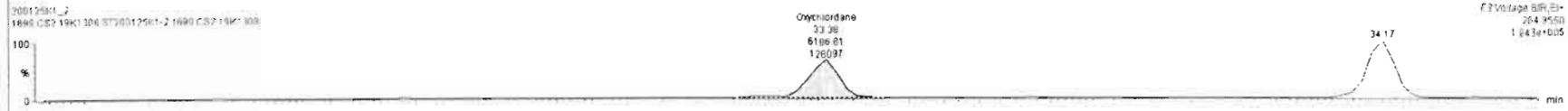
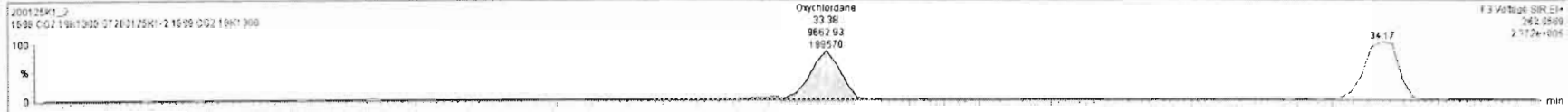


Aldrin-EI-isotopes



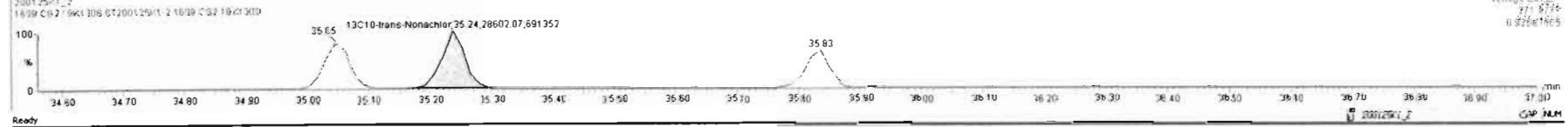
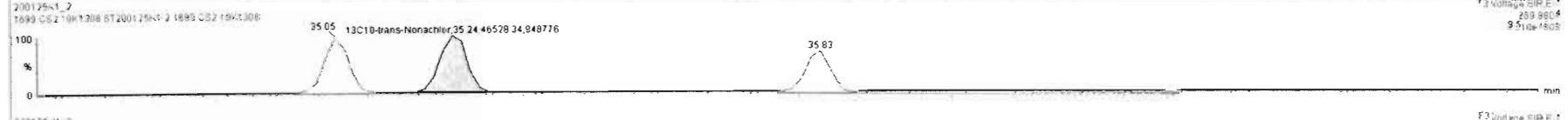
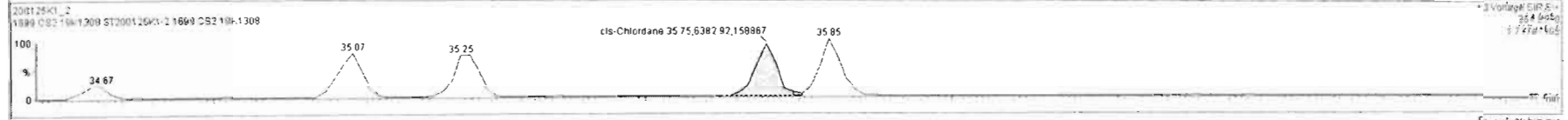
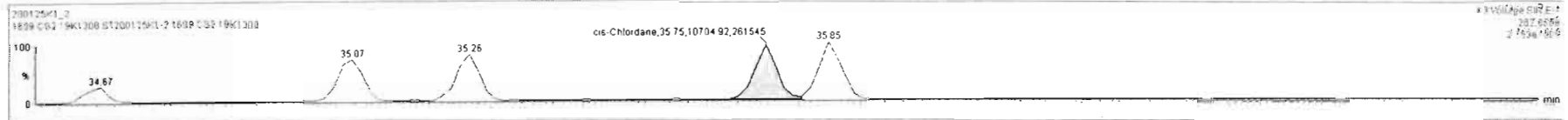
200125K1_2 - ST200 25K1_2 1699 C52 19K1306 - 1699 C52 19K1308

#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wt/wt	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	Dt	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 (genen)	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

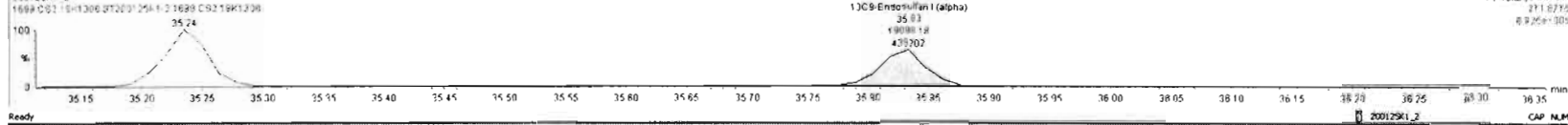
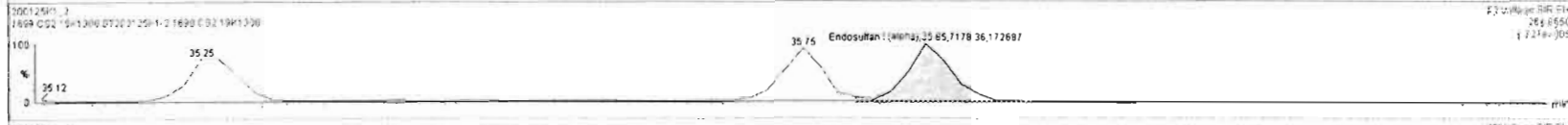
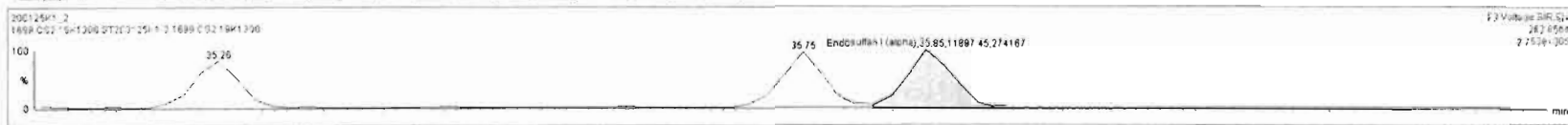


200125K1_2-ST200125K1-2-1699-052-19K-1308-1699-052-19K-1308

#	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	0.166	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	Endosulfen 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



#	Name	Resp	IS Resp	CF	RA	IVY	RTF	wAve	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	CL	EMPC
1	Hexachlorobutadiene	3.75e4	3.02e6	33	0.06	YES	0.0339	1.000	9.97	9.97	1.000	1.000	NO	185	367	0.237	18.7
2	Hexachlorobenzene	3.30e5	1.99e6	34	1.27	NO	0.9969	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	0.0617	1.000	23.21	23.20	1.001	1.002	NO	10.2	102	0.137	10.2
4	Lindane (gamma-BHC)	8.71e4	4.71e5	36	2.11	NO	0.0690	1.000	26.51	26.51	1.001	1.001	NO	10.0	100	0.201	10.0
5	Beta-BHC	7.24e4	3.55e5	37	2.14	NO	1.0173	1.000	28.54	28.55	1.001	1.000	NO	9.83	99.3	0.186	9.83
6	Delta-BHC	8.26e4	4.23e5	38	2.05	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	0.053	10.1
8	4,4'-DDE	1.98e5	4.23e5	38	3.23	NO	1.2643	1.000	30.12	30.14	0.998	0.997	NO	10.1	101	0.104	10.1
9	Axren	8.95e4	3.07e5	40	1.80	NO	1.1111	1.000	30.80	30.80	1.001	1.001	NO	10.2	102	0.0428	10.2
10	Dysoxobenzene	1.58e4	7.06e4	41	1.56	NO	1.0888	1.000	33.37	33.36	1.001	1.001	NO	10.3	103	0.185	10.3
11	cis-Heptachlor Epoxide	2.17e4	9.14e4	42	1.52	NO	1.1318	1.000	34.16	34.17	1.001	1.001	NO	10.5	105	0.122	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 (gamma)	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	1.58	NO	1.0786	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	1.66	NO	1.1080	1.000	35.74	35.75	1.015	1.014	NO	10.3	103	0.150	10.3
16	Endosulfan (alpha)	1.91e4	4.88e4	45	1.66	NO	1.1502	1.000	35.85	35.85	1.000	1.001	NO	16.8	113	0.206	16.8
17	4,4'-DDE	2.45e5	1.76e6	46	3.17	NO	0.8758	1.000	35.51	35.50	0.994	0.994	NO	10.3	103	0.0336	10.3
18	2,4'-DDE	3.00e5	1.76e6	46	1.41	NO	0.8941	1.000	35.71	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

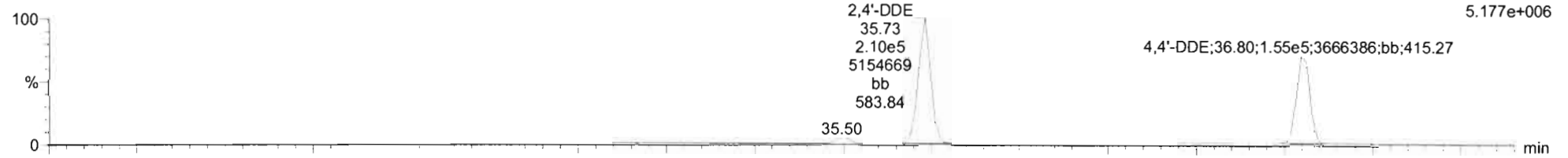
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Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

DDMU-DDE

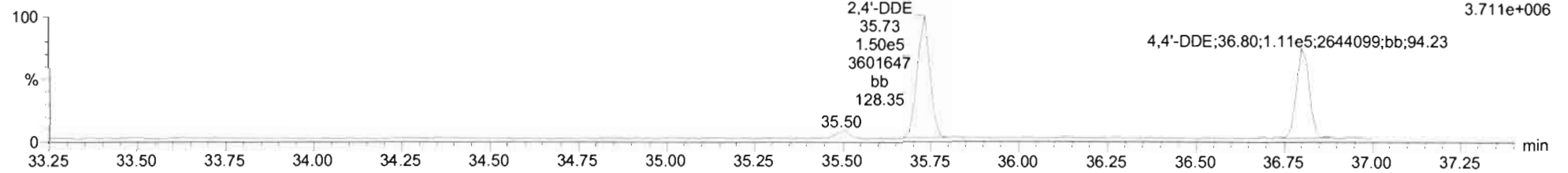
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F3:Voltage SIR,EI+
246.0003
5.177e+006



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

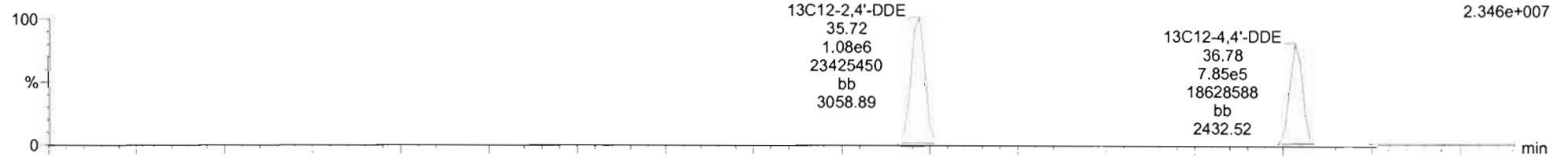
F3:Voltage SIR,EI+
247.9974
3.711e+006



DDE-isotopes

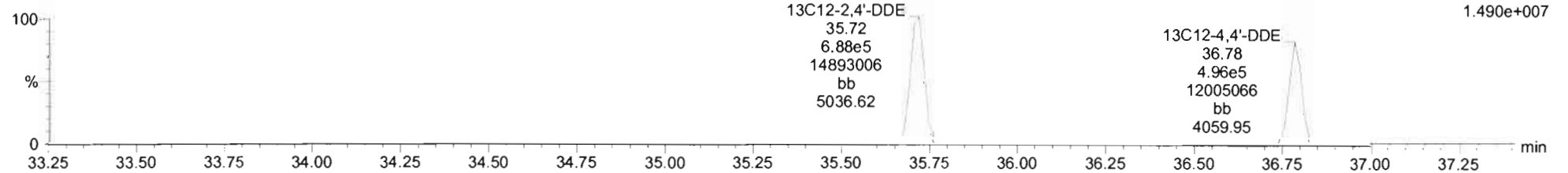
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1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

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



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

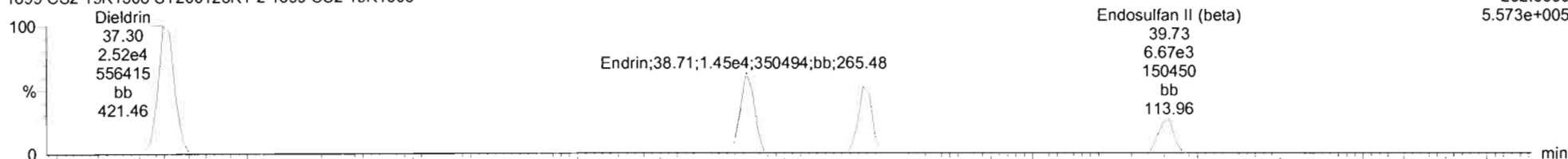
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Dieldrin-Ell

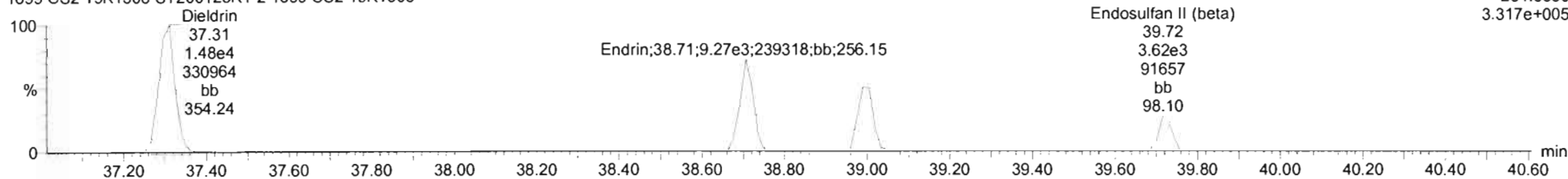
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F4:Voltage SIR,EI+
262.8569
5.573e+005



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

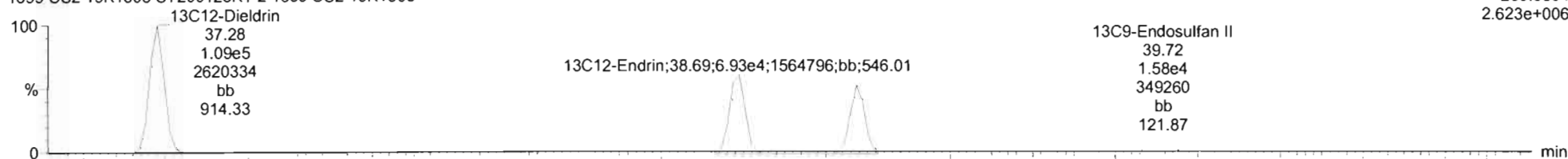
F4:Voltage SIR,EI+
264.8550
3.317e+005



Dieldrin-Ell-isotopes

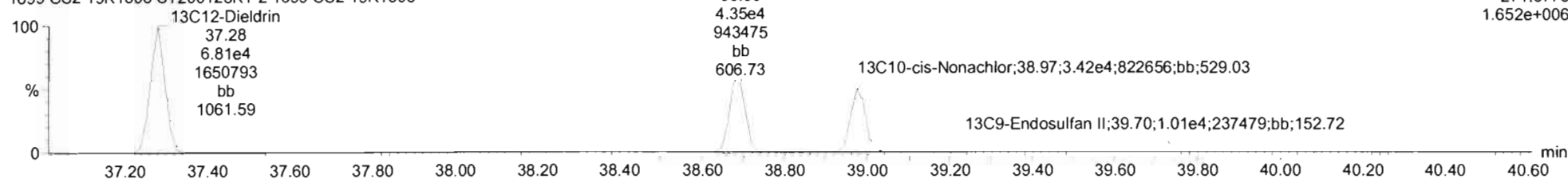
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F4:Voltage SIR,EI+
269.8804
2.623e+006



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F4:Voltage SIR,EI+
271.8775
1.652e+006

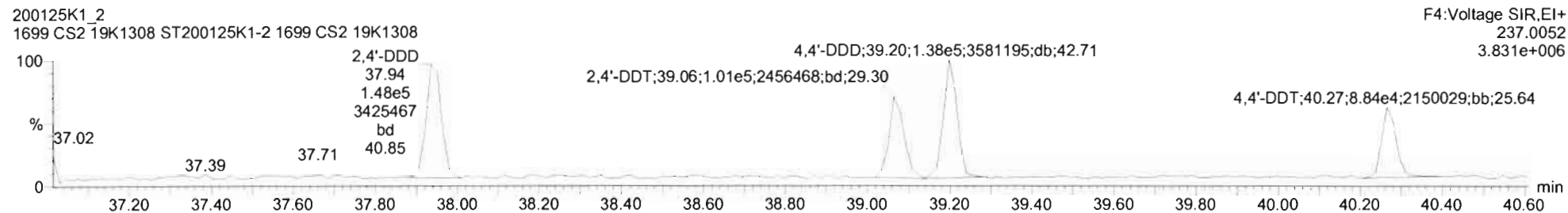
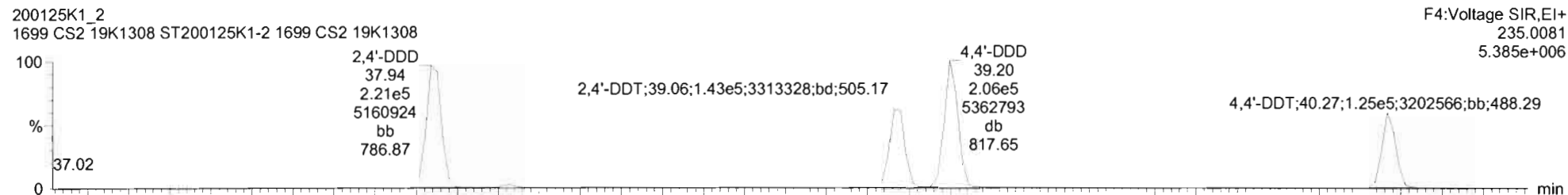


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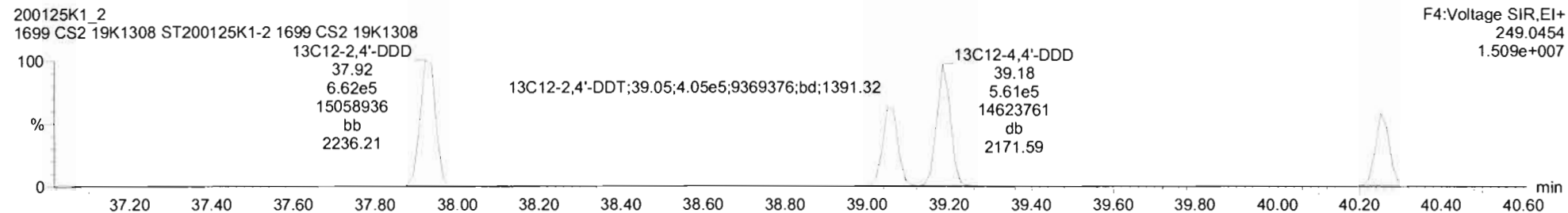
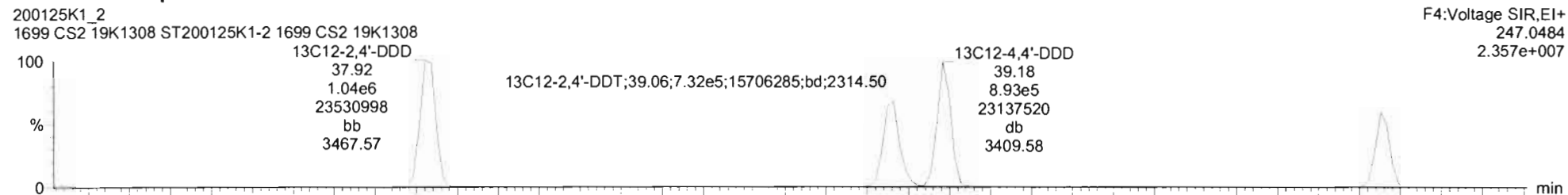
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Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

DDD-DDT

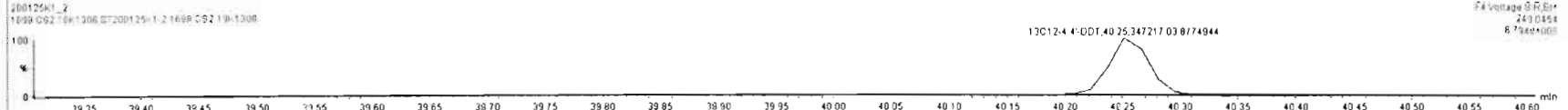


DDD-DDT-isotopes



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	10.3	103	0.0605	10.3
21	21	2.36e4	1.13e5	49	1.58	NO	1.0566	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	1.000	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	1.1267	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

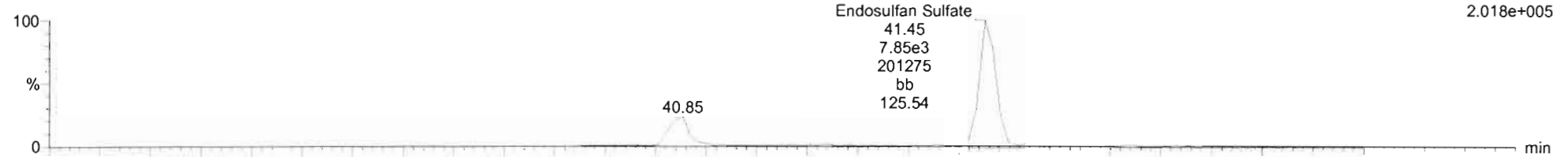
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

Endosulfan Sulfate

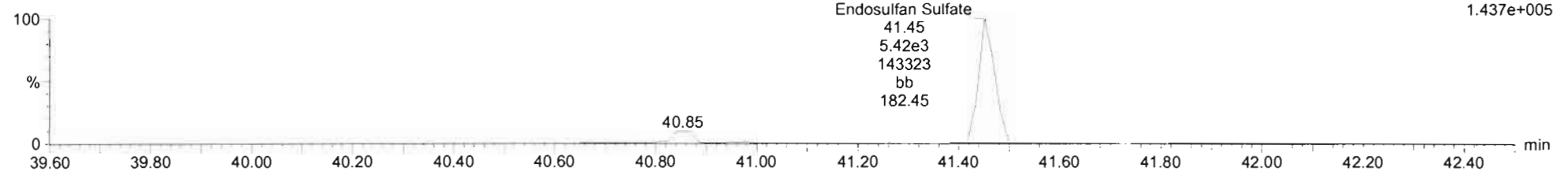
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
262.8569
2.018e+005



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

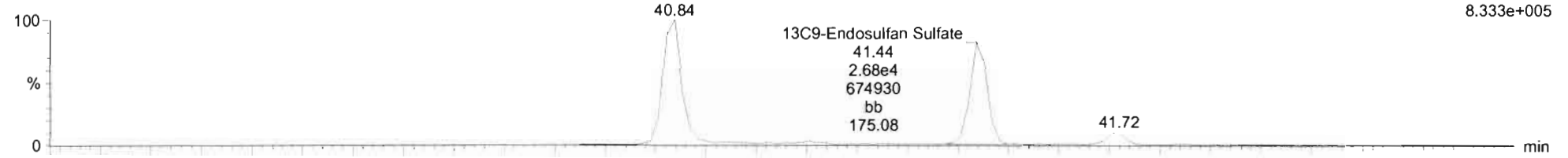
F5:Voltage SIR,EI+
264.8540
1.437e+005



13C9-Endosulfan Sulfate

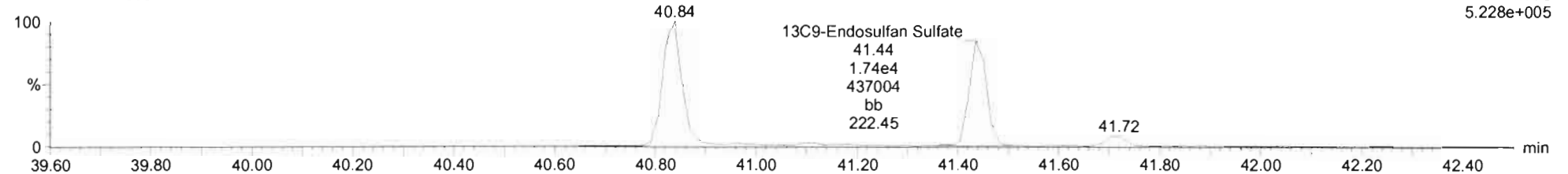
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

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

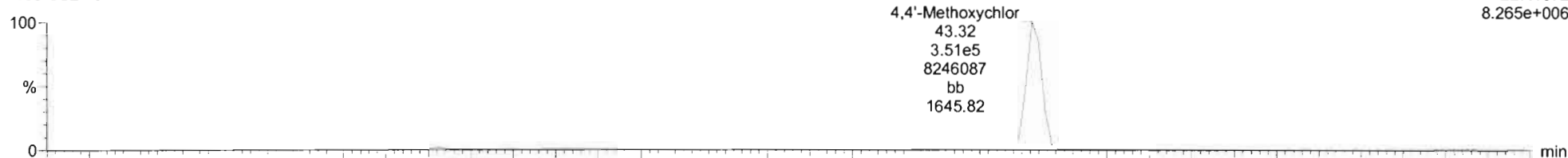
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4,4'-Methoxychlor

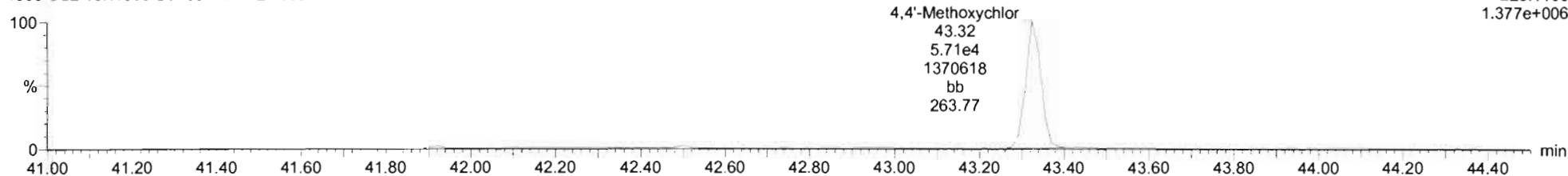
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1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
227.1072
8.265e+006



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

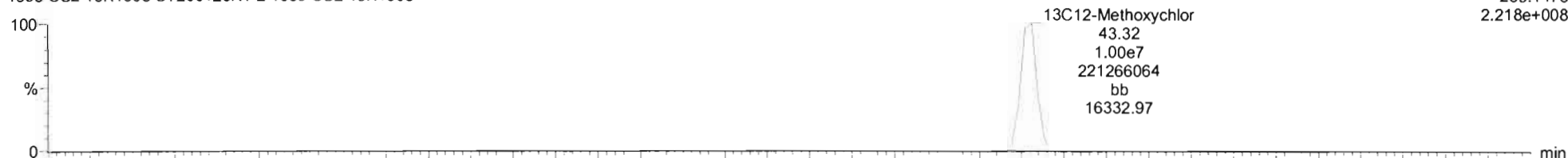
F5:Voltage SIR,EI+
228.1106
1.377e+006



13C12-Methoxychlor

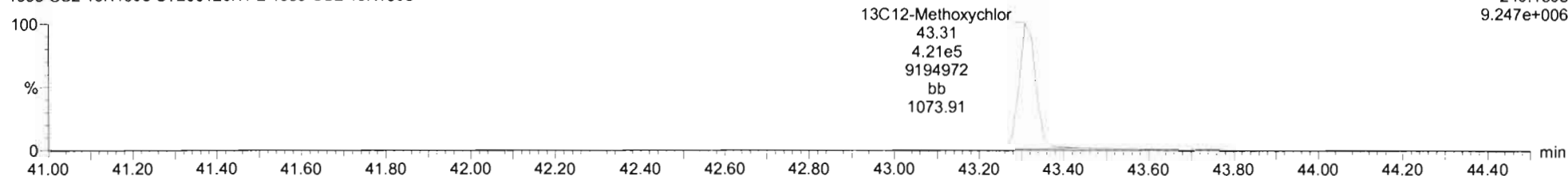
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

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

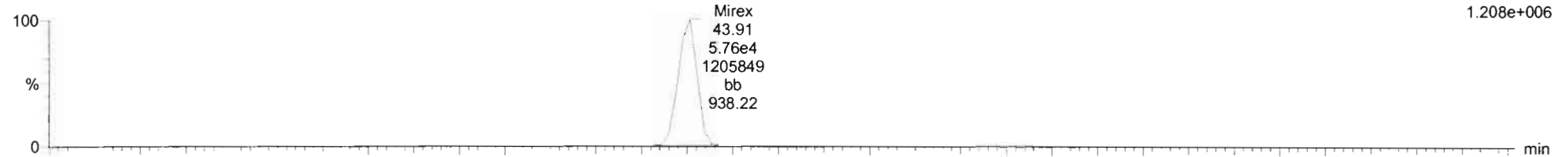
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Mirex

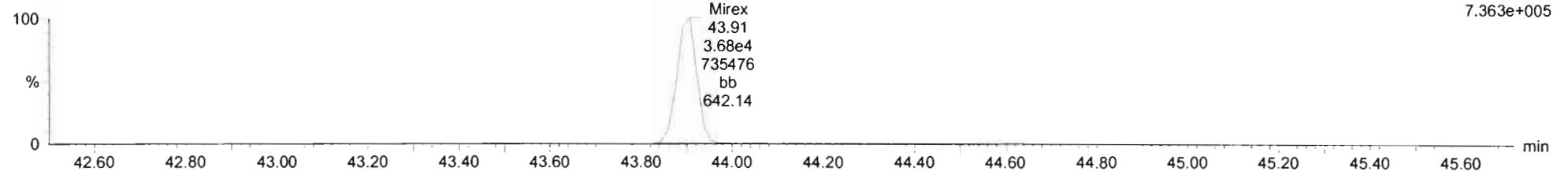
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
236.8413
1.208e+006



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

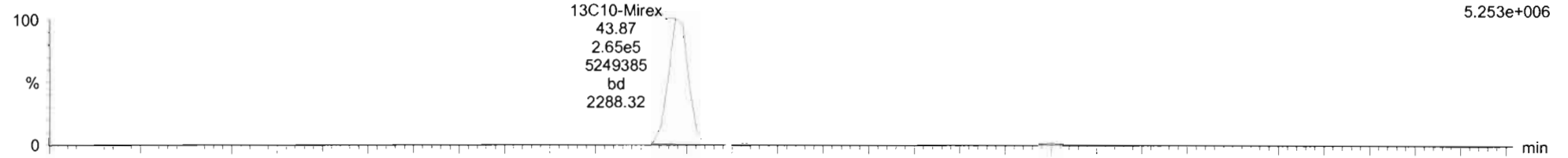
F5:Voltage SIR,EI+
238.8384
7.363e+005



13C10-Mirex

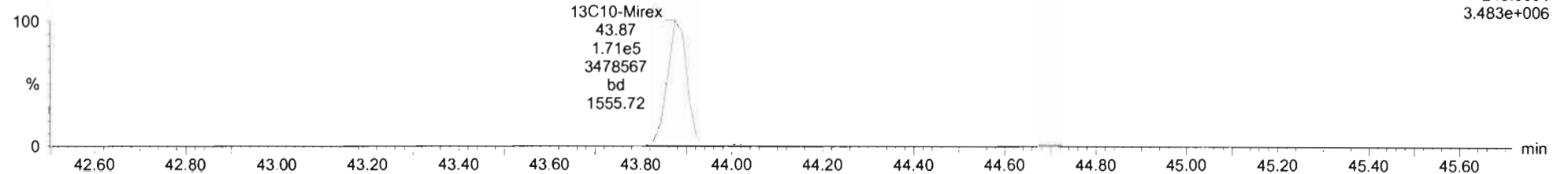
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1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

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

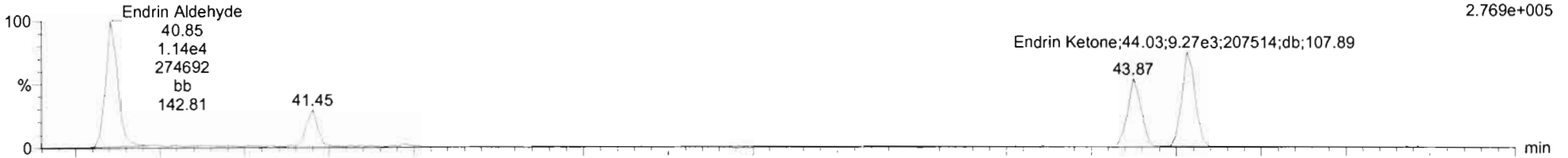
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EA-EK

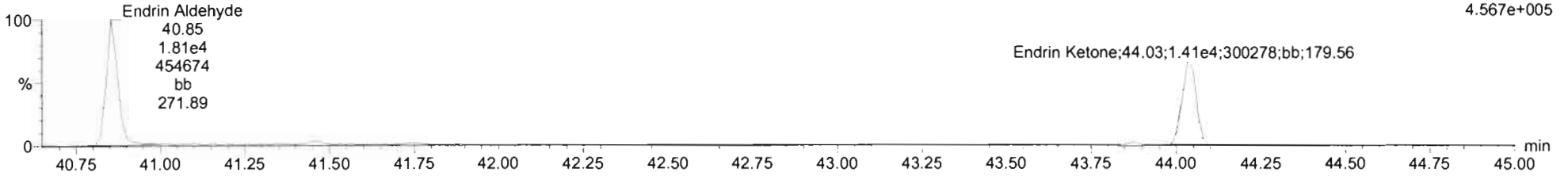
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
247.8521
2.769e+005



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

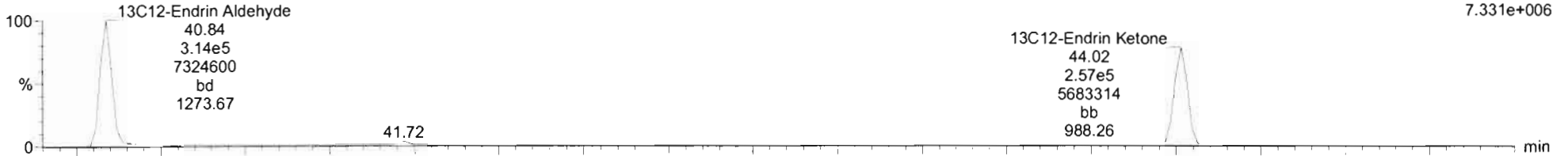
F5:Voltage SIR,EI+
249.8491
4.567e+005



EA-EK-isotopes

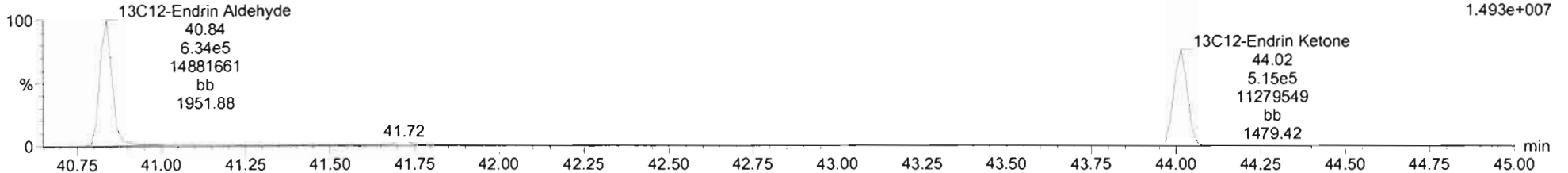
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

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	ISr	RA	rvy	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
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	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	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	Endosulfan I (beta)	1.03e4	2.59e4	51	1.84	NO	1.1102	1.000	36.72	36.73	1.000	1.000	NO	17.9	119	0.442	17.9
24	2,4'-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	2,4'-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	4,4'-DDE	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	4,4'-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	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	4,4'-Methoxychlor	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	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	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	Endrin Ketone	2.33e4	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	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	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	13C5-Alpha-BHC	5.98e5	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	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	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

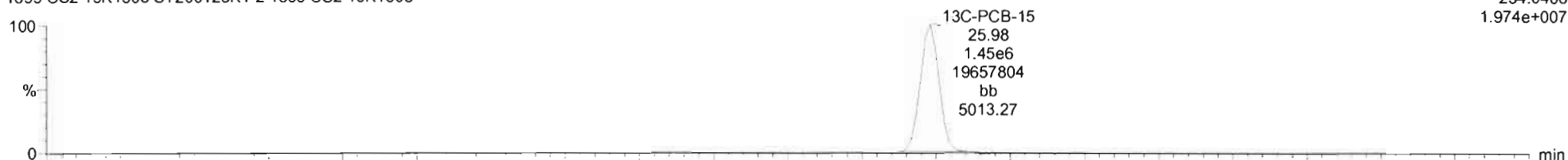
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13C-PCB-15

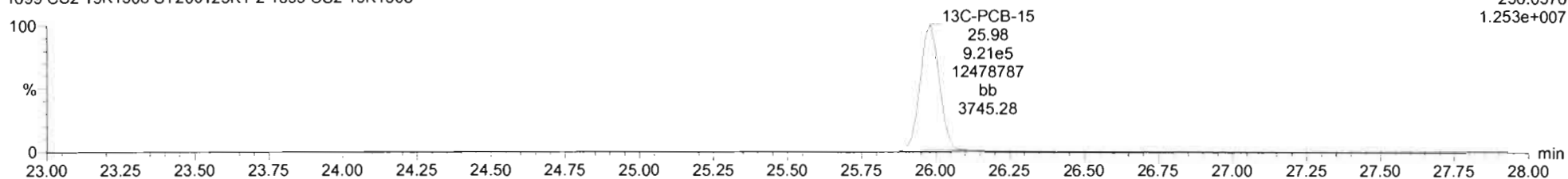
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F2:Voltage SIR,EI+
234.0406
1.974e+007



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

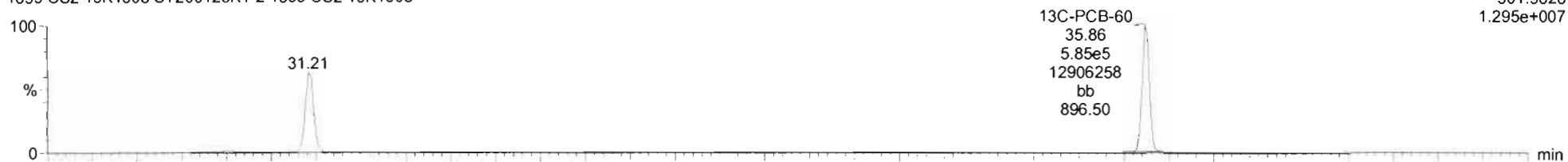
F2:Voltage SIR,EI+
236.0376
1.253e+007



13C-PCB-60

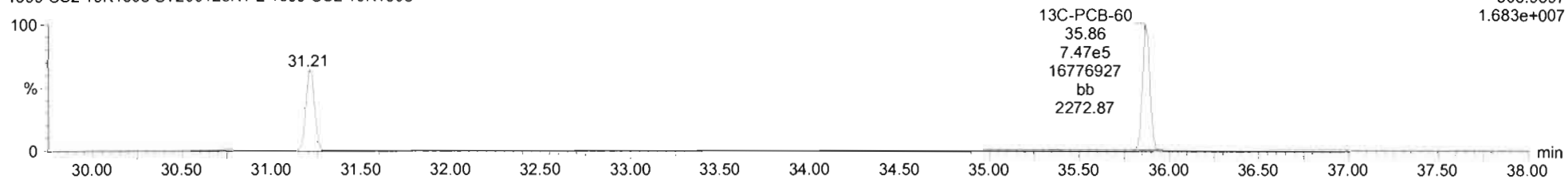
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

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

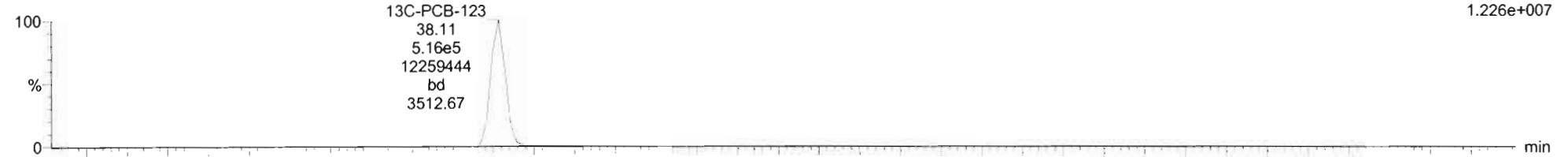
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Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

13C-PCB-123

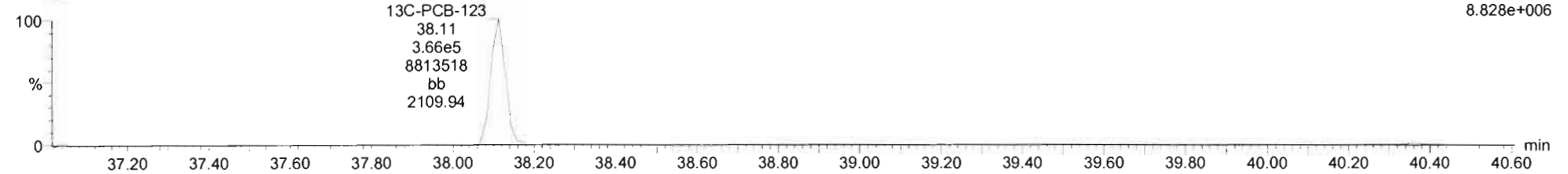
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F4:Voltage SIR,EI+
337.9210
1.226e+007



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

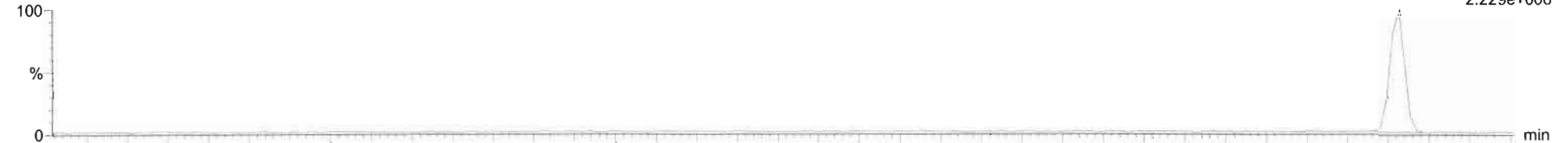
F4:Voltage SIR,EI+
339.9180
8.828e+006



13C-PARLAR 39

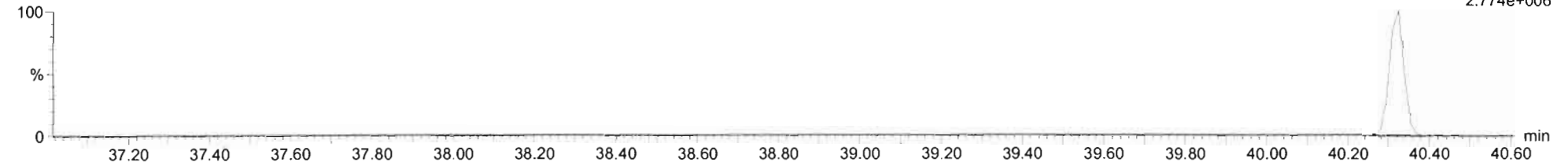
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

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



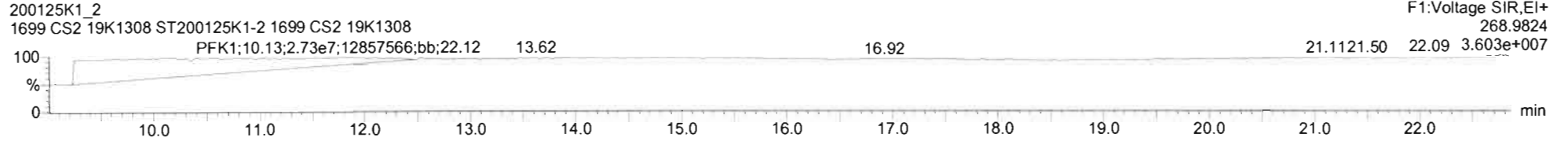
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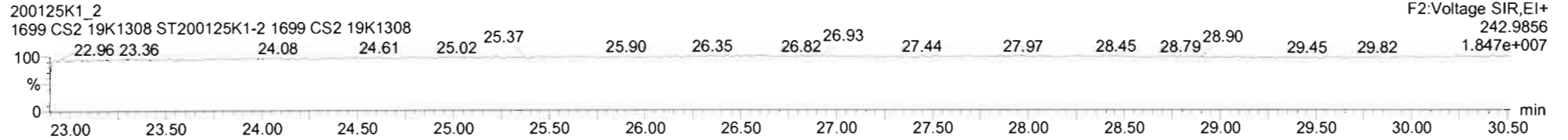
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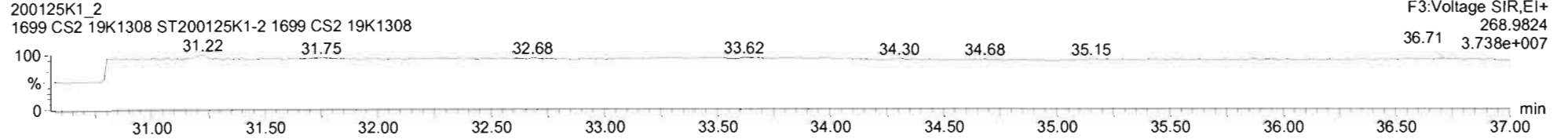
PFK1



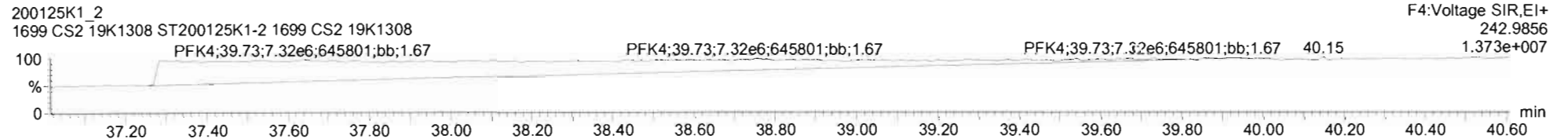
PFK2



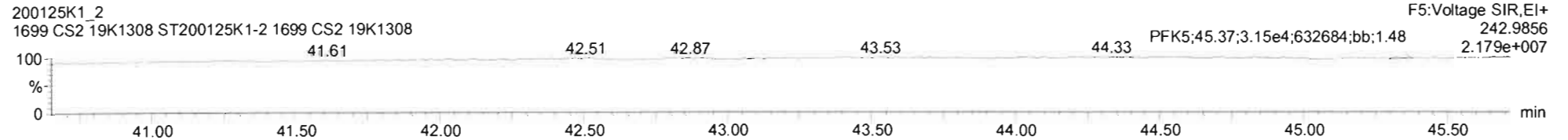
PFK3



PFK4



PFK5



Dataset: Untitled

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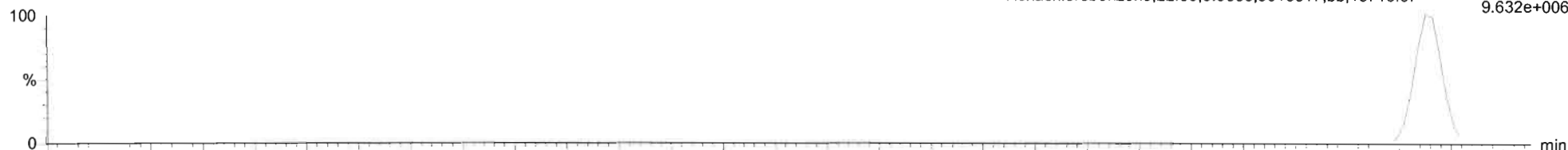
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Hexachlorobenzene

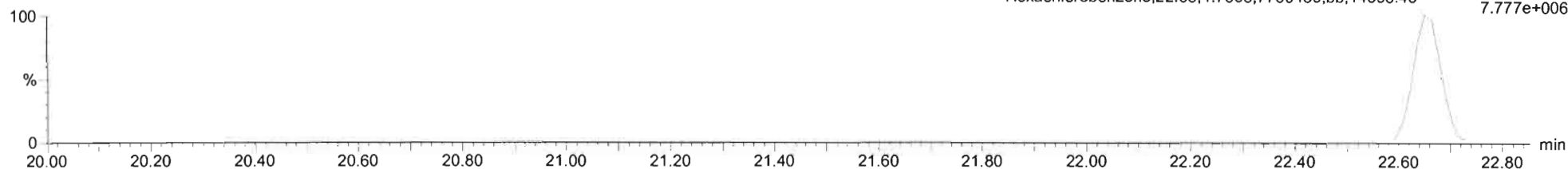
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

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

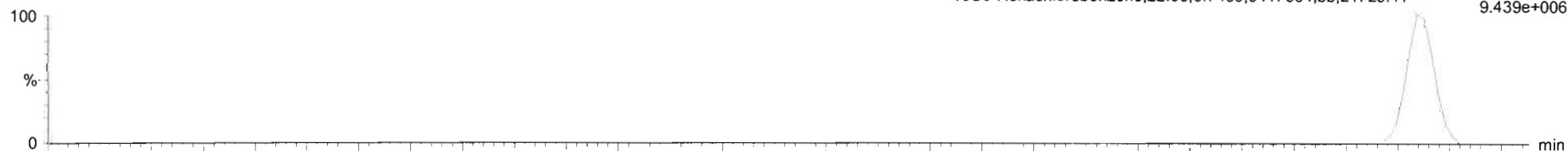
F1:Voltage SIR,EI+
Hexachlorobenzene;22.65;4.76e5;7760489;bb;14696.46
285.8072
7.777e+006



13C6-Hexachlorobenzene

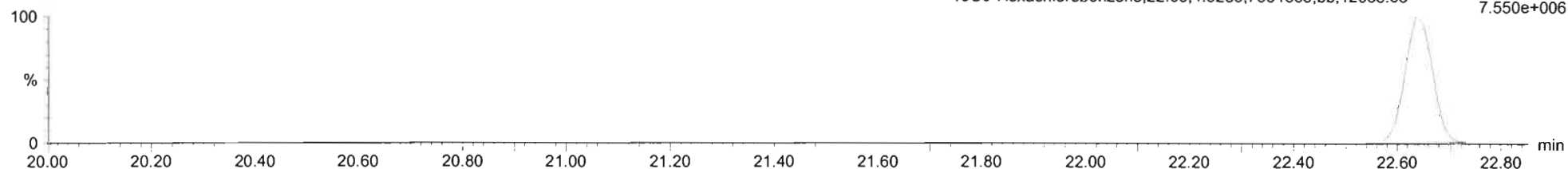
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

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



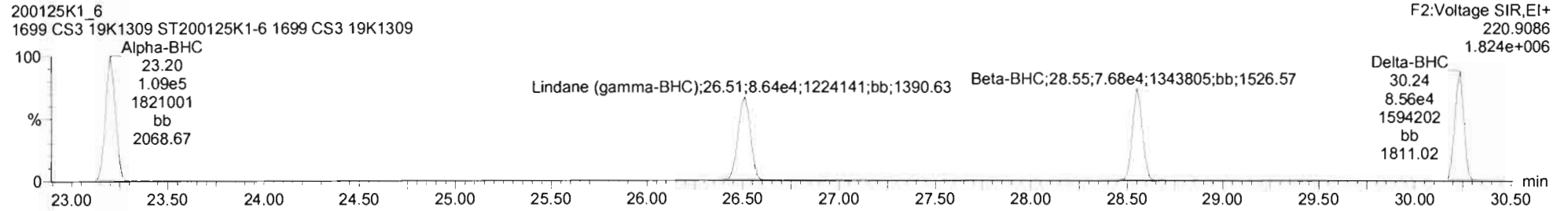
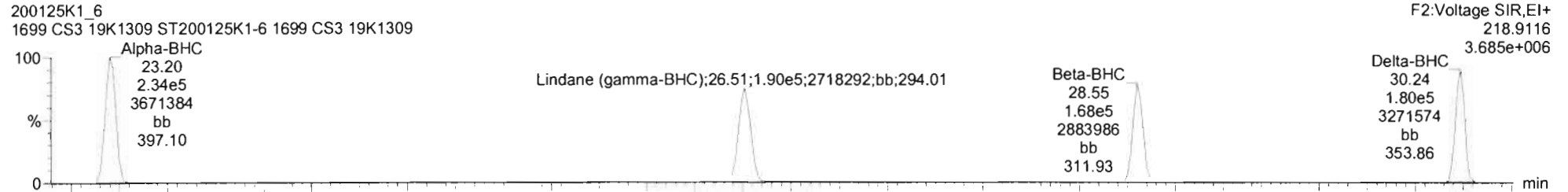
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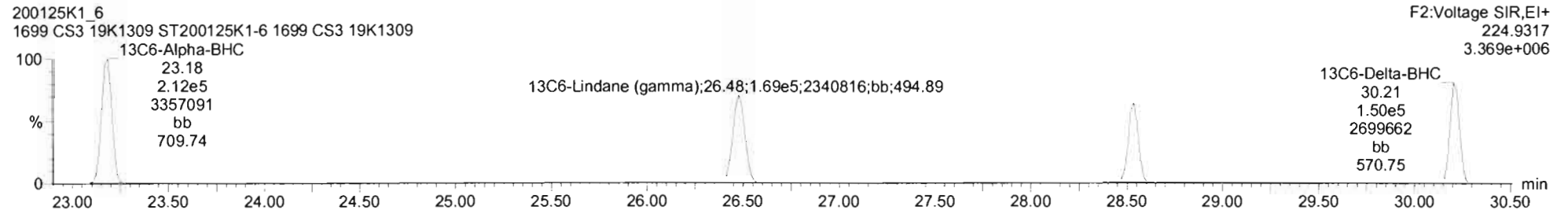
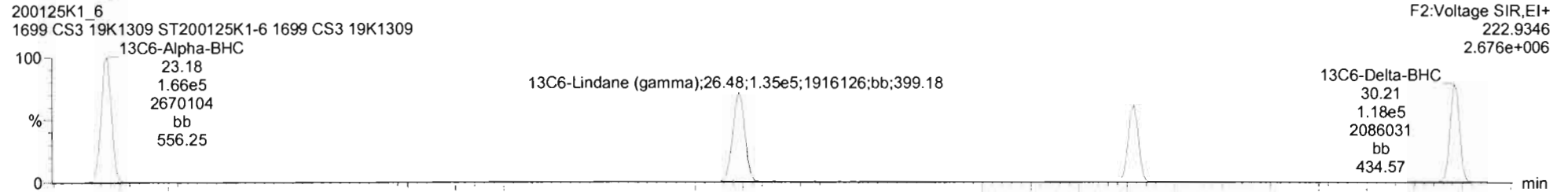
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

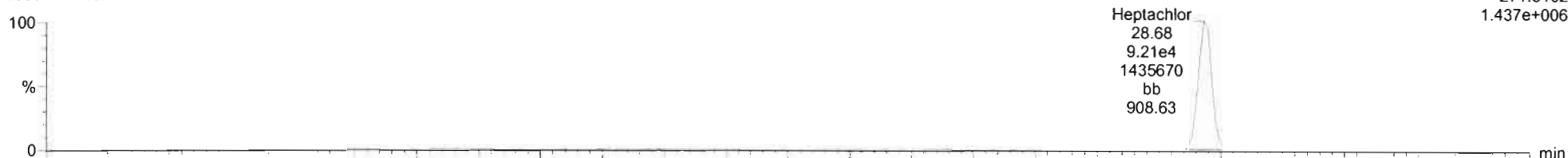
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Heptachlor

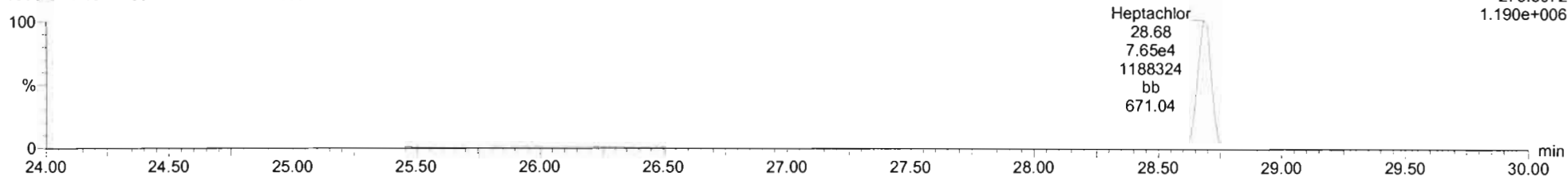
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F2:Voltage SIR,EI+
271.8102
1.437e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

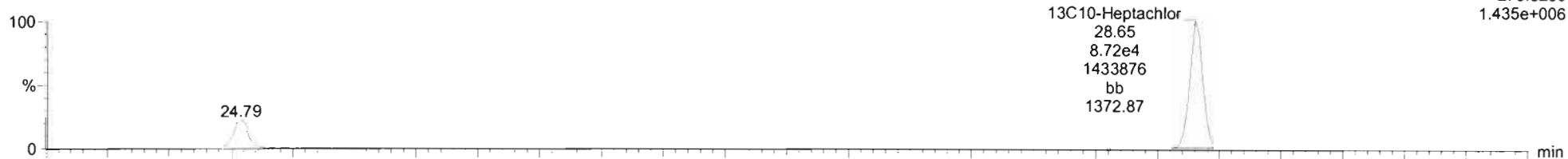
F2:Voltage SIR,EI+
273.8072
1.190e+006



13C10-Heptachlor

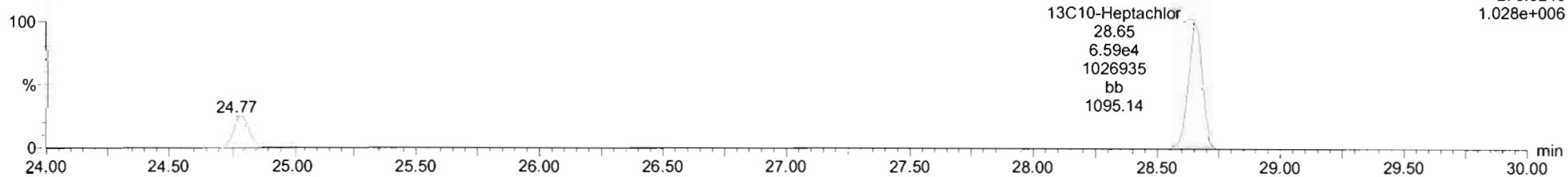
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

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

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

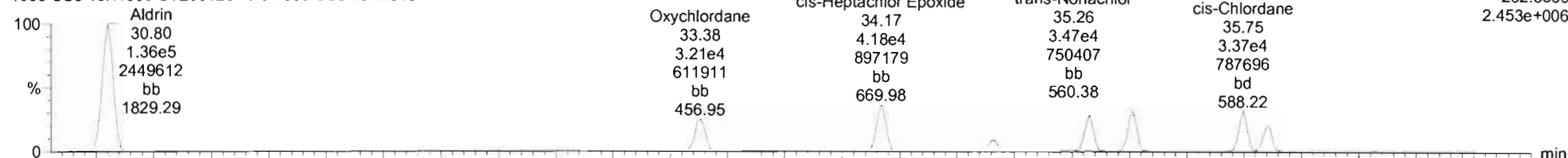
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Aldrin-EI

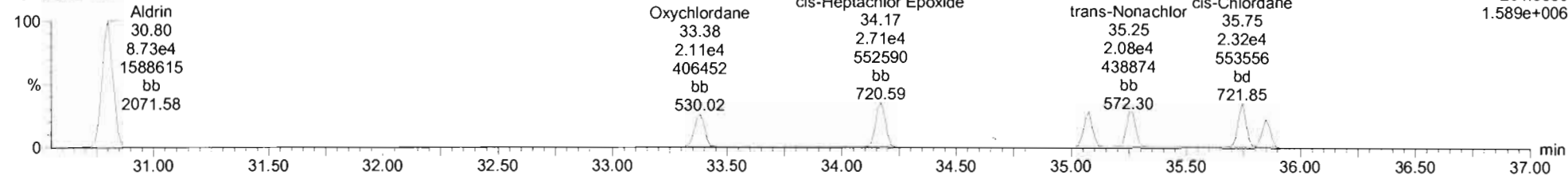
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F3:Voltage SIR,EI+
262.8569
2.453e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

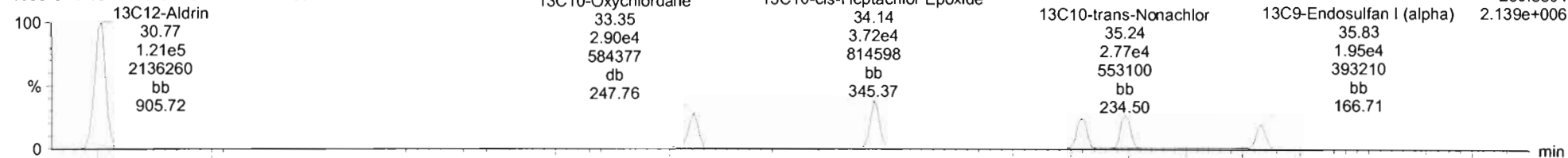
F3:Voltage SIR,EI+
264.8550
1.589e+006



Aldrin-EI-isotopes

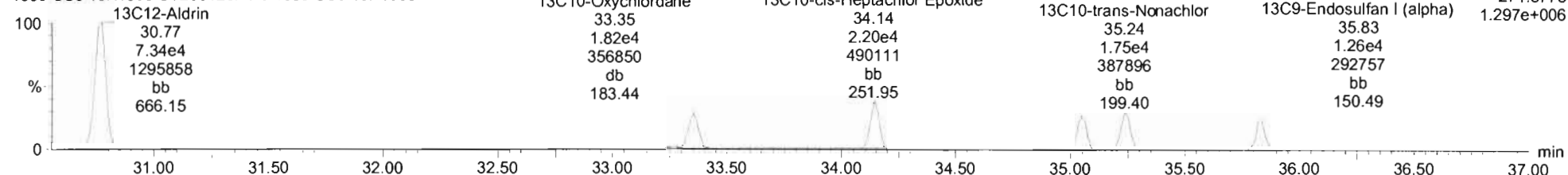
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F3:Voltage SIR,EI+
269.8804
2.139e+006

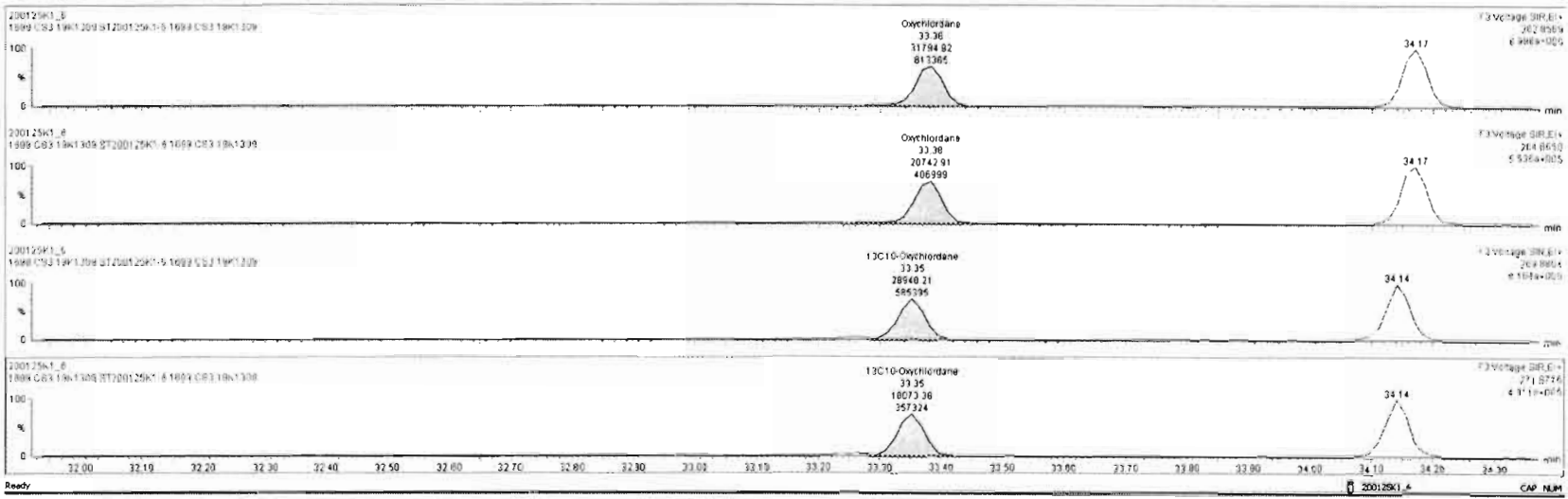


200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

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	Hexachlorobiphenyl	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	Alaria-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	2.6865	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	1.8865	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	50.8	101	0.145	50.8
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	32.38	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	1.1564	1.1264	45	1.42	NO	0.9841	1.000	35.73	35.73	1.000	1.000	NO	52.4	105	0.199	52.4



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

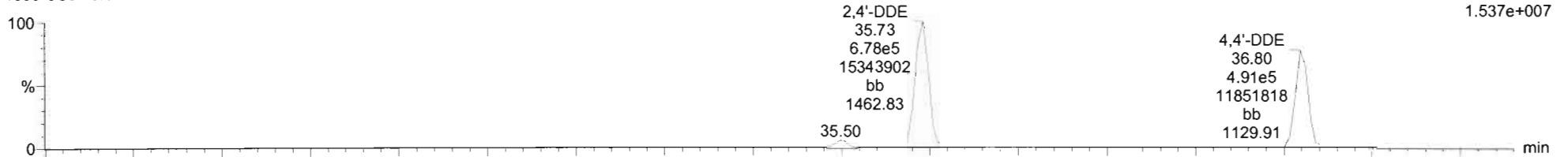
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

DDMU-DDE

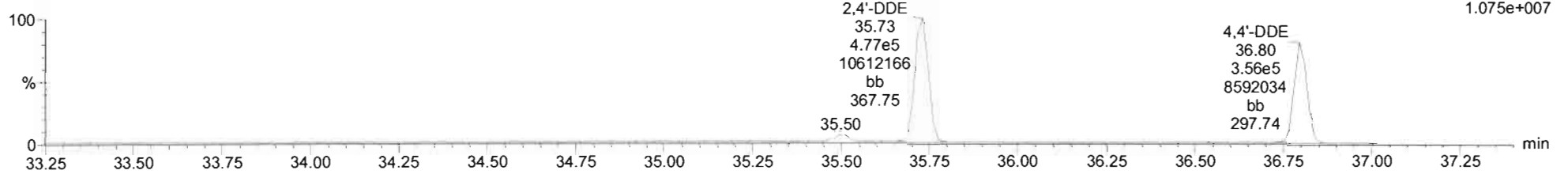
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F3:Voltage SIR,EI+
246.0003
1.537e+007



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

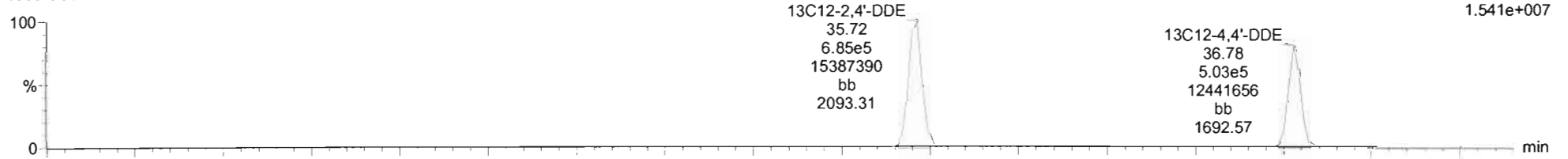
F3:Voltage SIR,EI+
247.9974
1.075e+007



DDE-isotopes

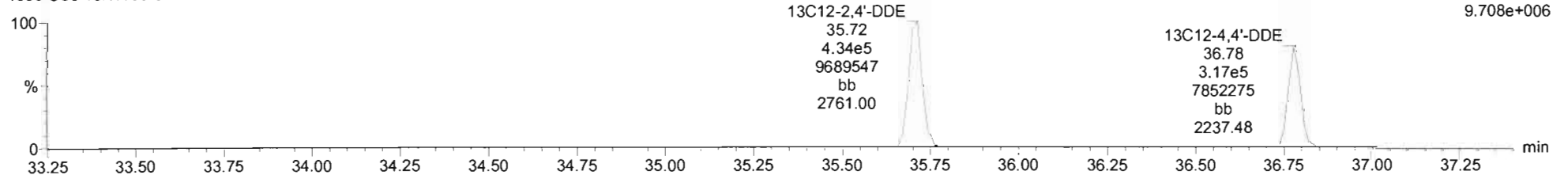
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

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

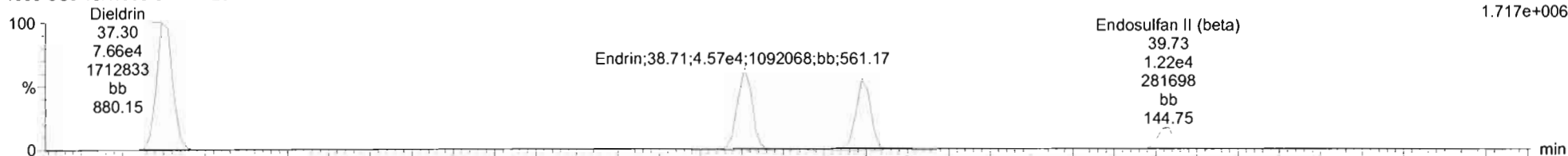
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Dieldrin-EII

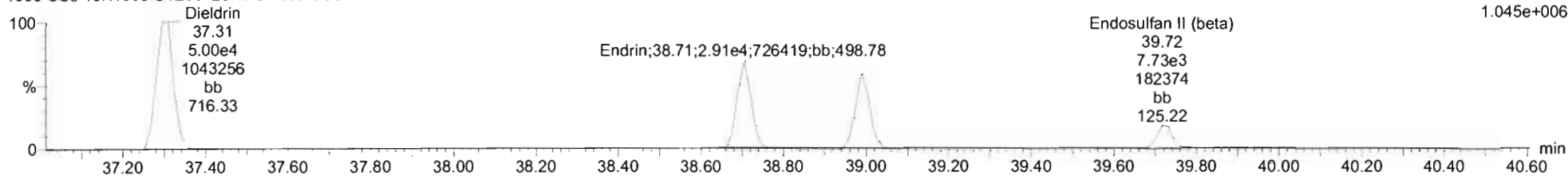
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F4:Voltage SIR,EI+
262.8569
1.717e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

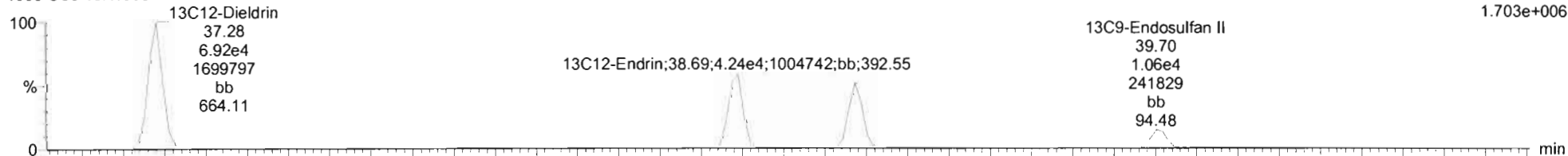
F4:Voltage SIR,EI+
264.8550
1.045e+006



Dieldrin-EII-isotopes

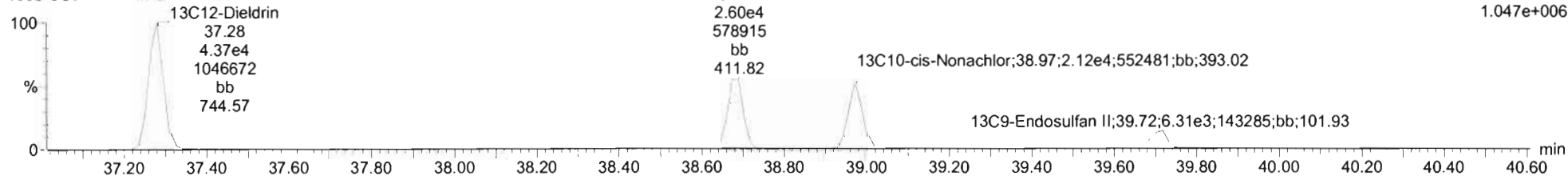
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

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



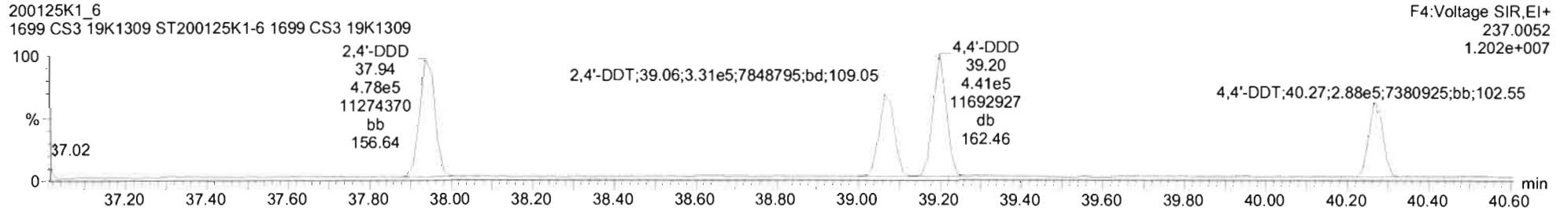
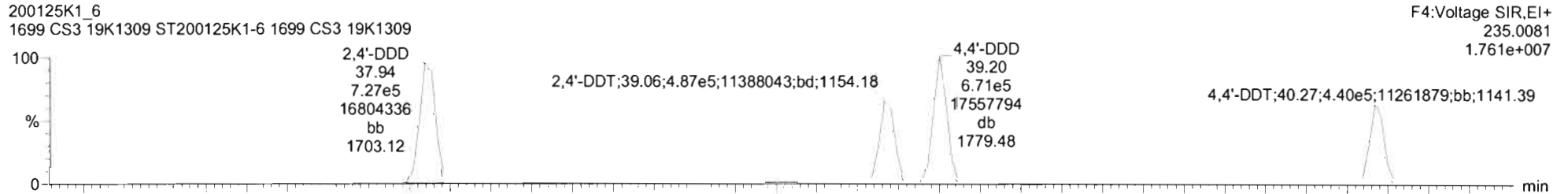
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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

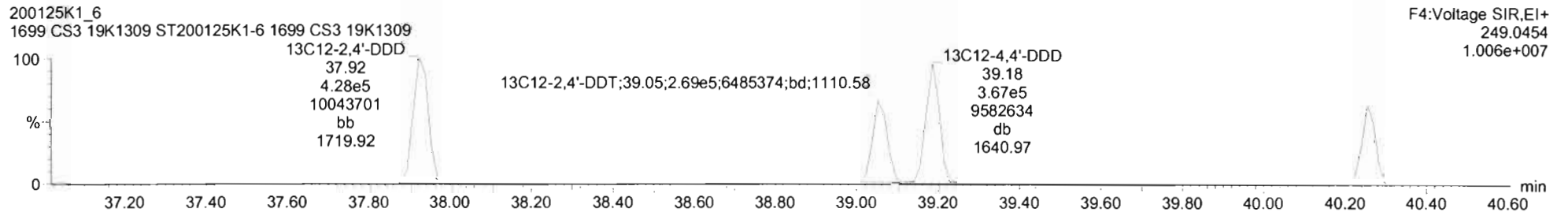
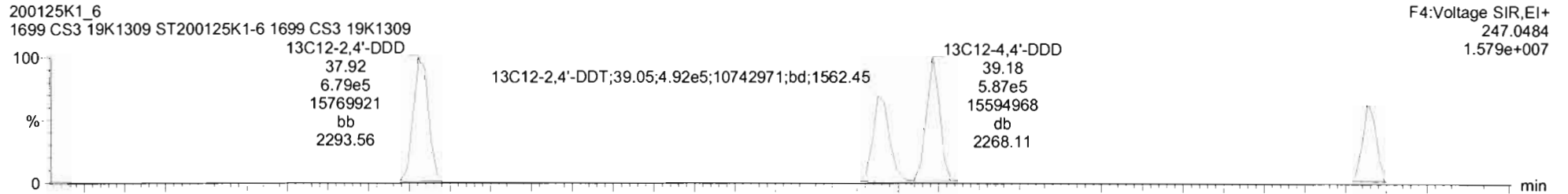
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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

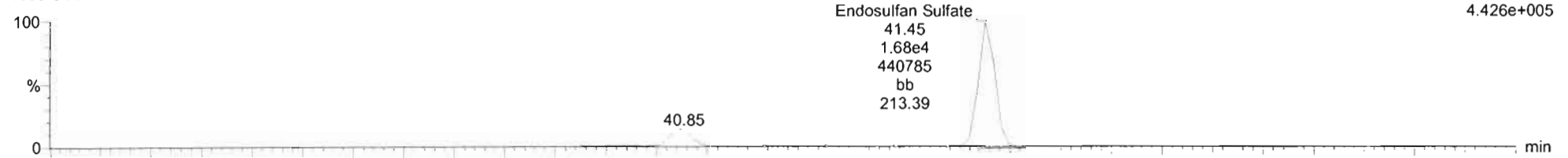
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Endosulfan Sulfate

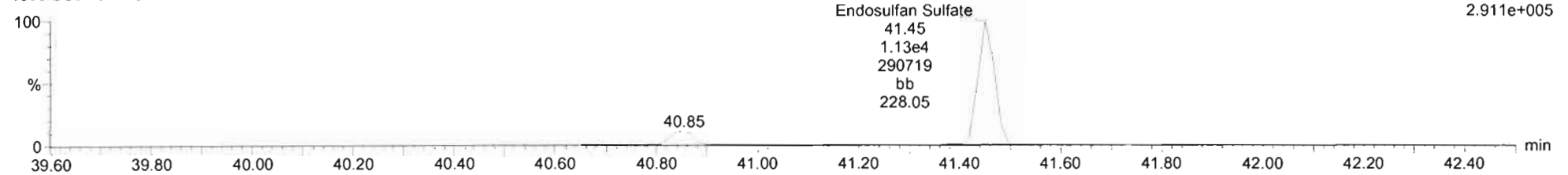
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
262.8569
4.426e+005



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

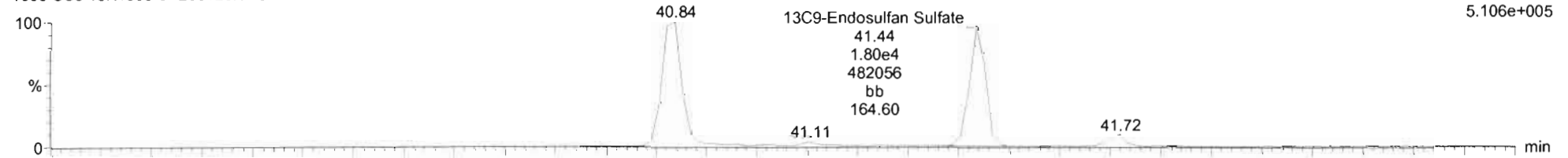
F5:Voltage SIR,EI+
264.8540
2.911e+005



13C9-Endosulfan Sulfate

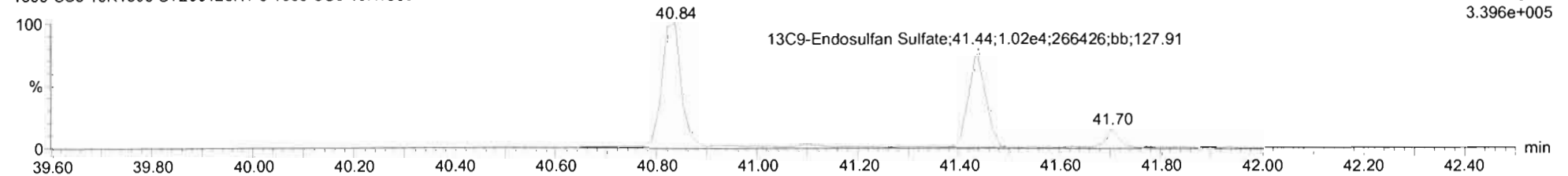
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

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

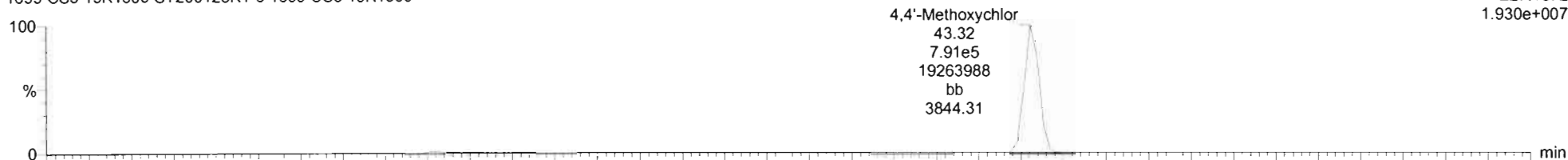
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

4,4'-Methoxychlor

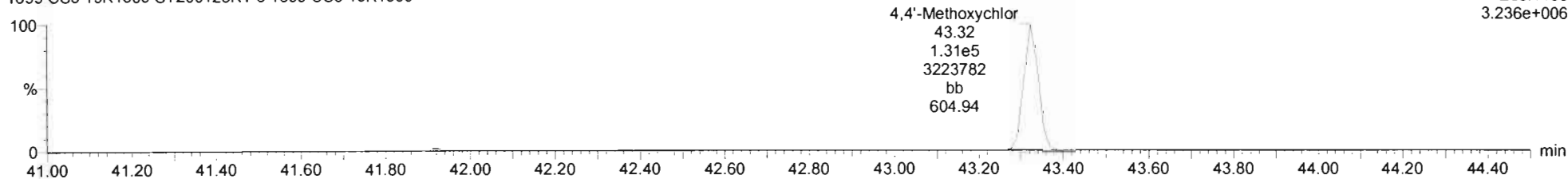
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
227.1072
1.930e+007



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

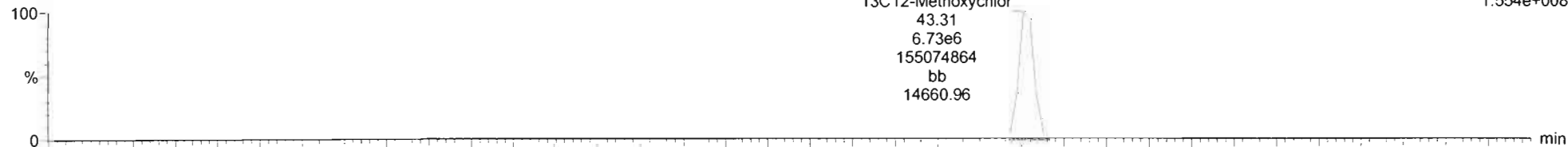
F5:Voltage SIR,EI+
228.1106
3.236e+006



13C12-Methoxychlor

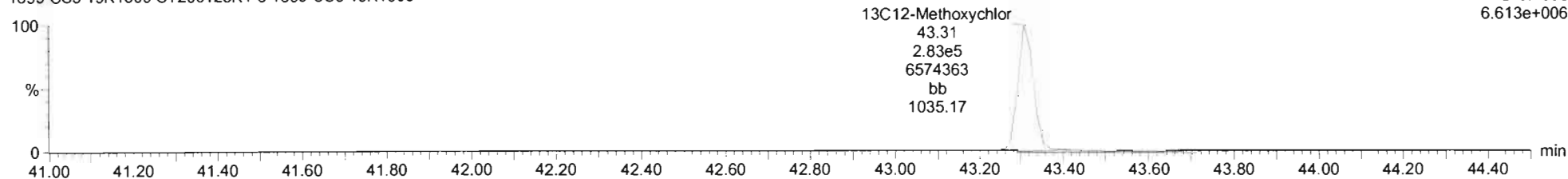
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

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

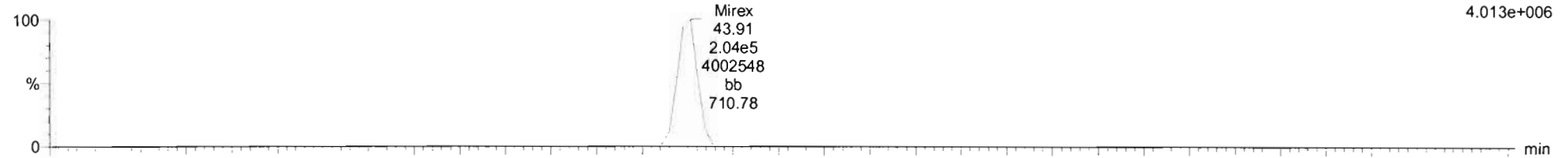
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Mirex

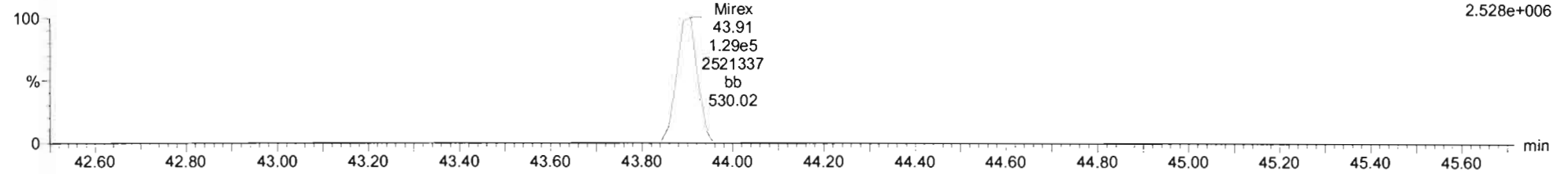
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
236.8413
4.013e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

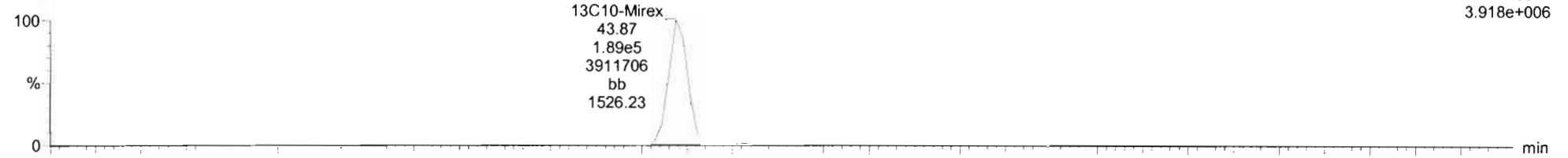
F5:Voltage SIR,EI+
238.8384
2.528e+006



13C10-Mirex

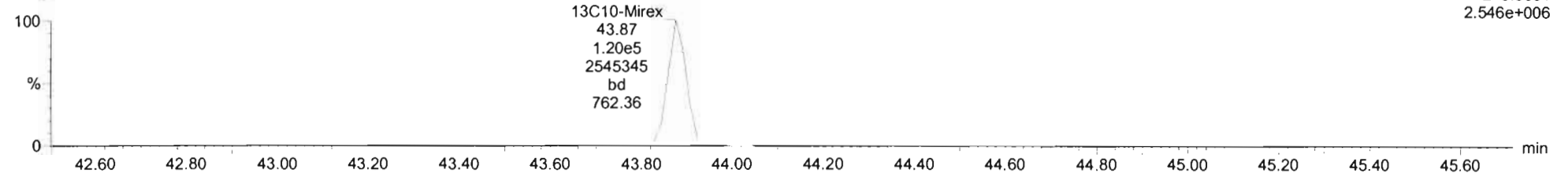
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

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

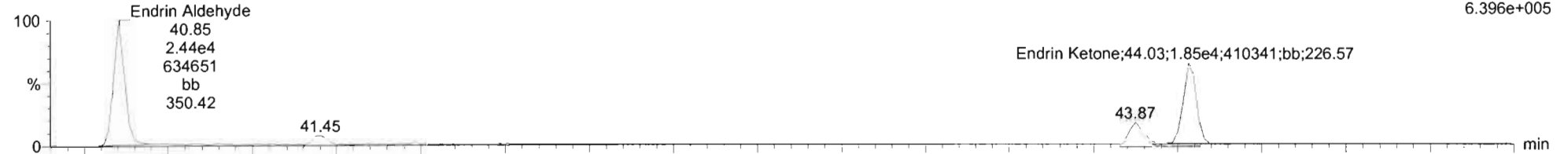
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

EA-EK

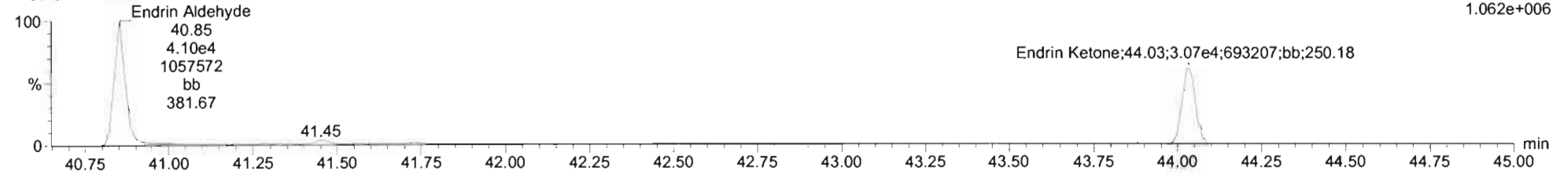
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
247.8521
6.396e+005



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

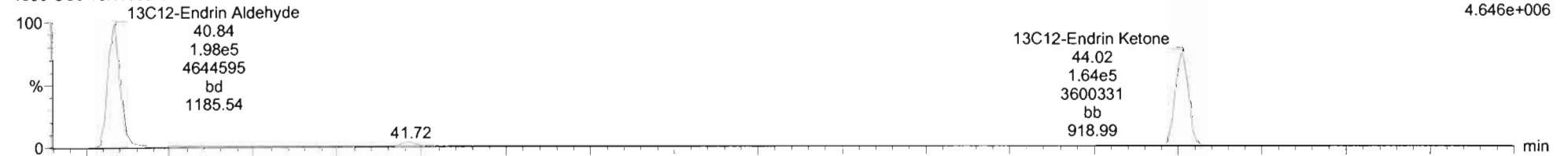
F5:Voltage SIR,EI+
249.8491
1.062e+006



EA-EK-isotopes

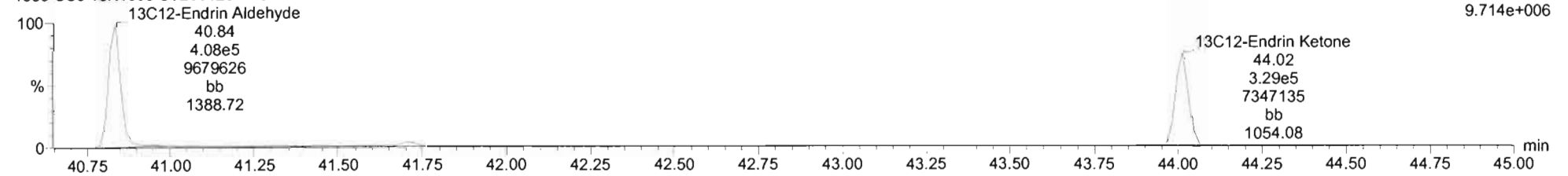
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
253.8722
4.646e+006

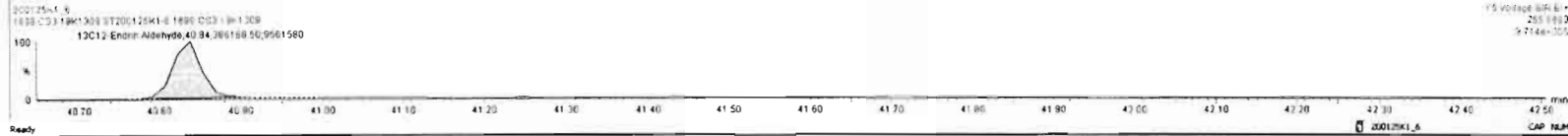
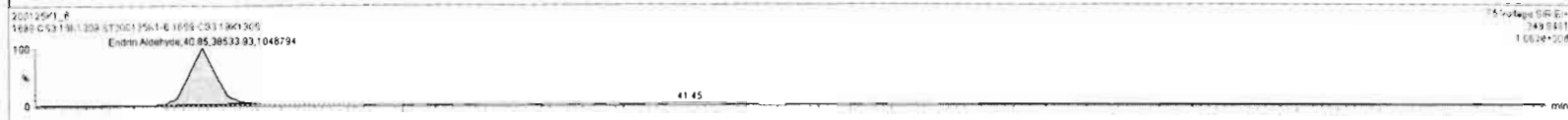


200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

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	Desam	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	2,4-D00	1.11e6	9.54e5	54	1.52	NO	1.1242	1.000	39.20	39.20	1.000	1.000	NO	51.9	104	0.359	51.9
27	2,4-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	26.48	26.48	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	



Dataset: Untitled

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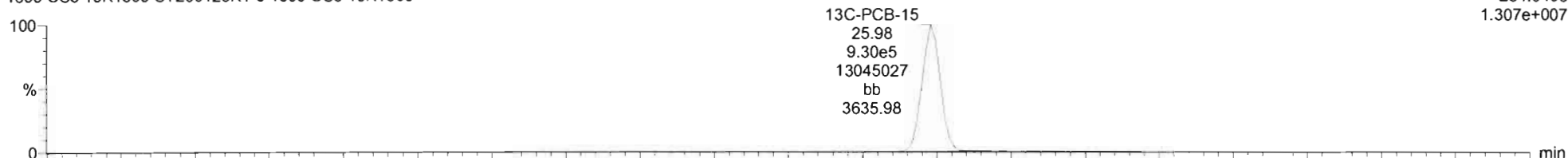
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

13C-PCB-15

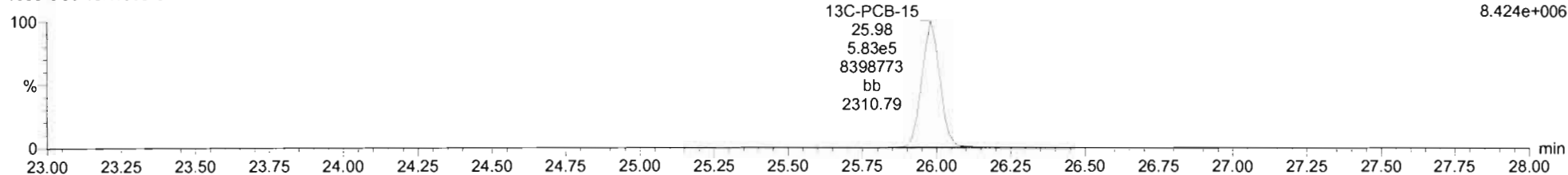
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F2:Voltage SIR,EI+
234.0406
1.307e+007



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

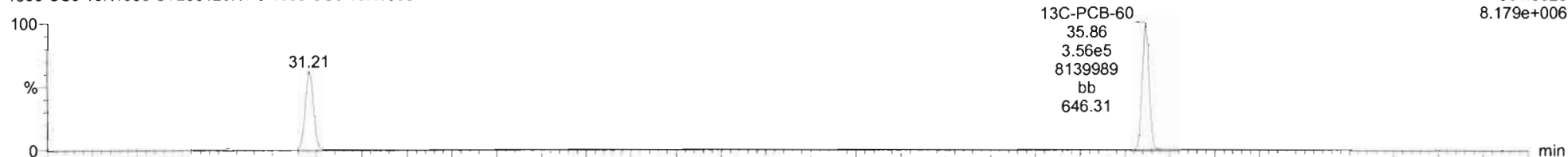
F2:Voltage SIR,EI+
236.0376
8.424e+006



13C-PCB-60

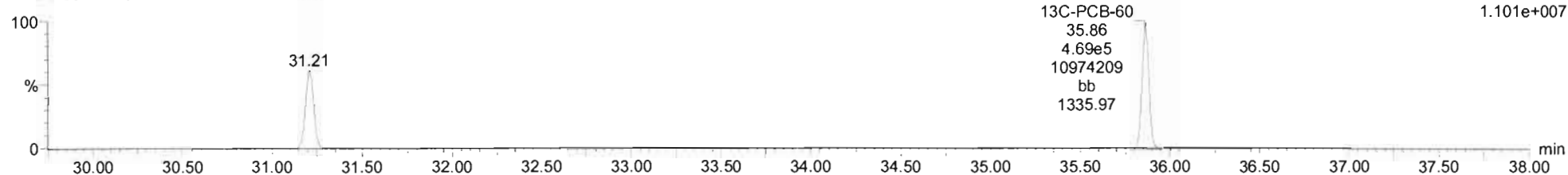
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

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

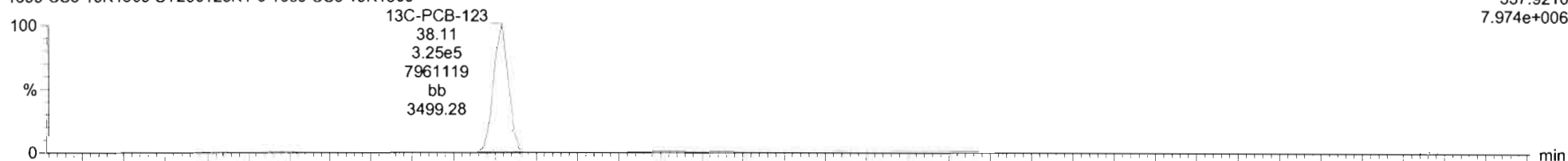
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

13C-PCB-123

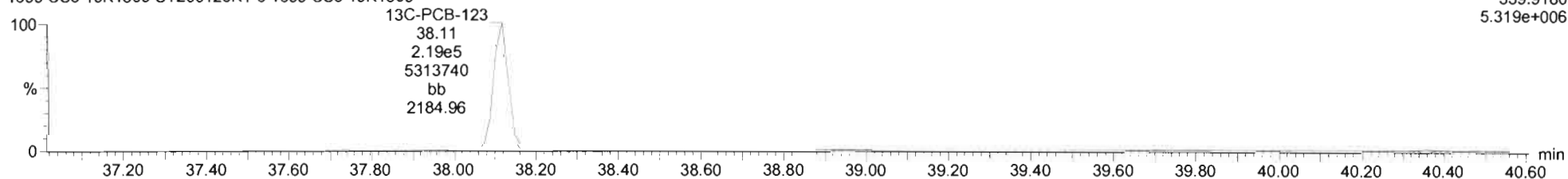
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F4:Voltage SIR,EI+
337.9210
7.974e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

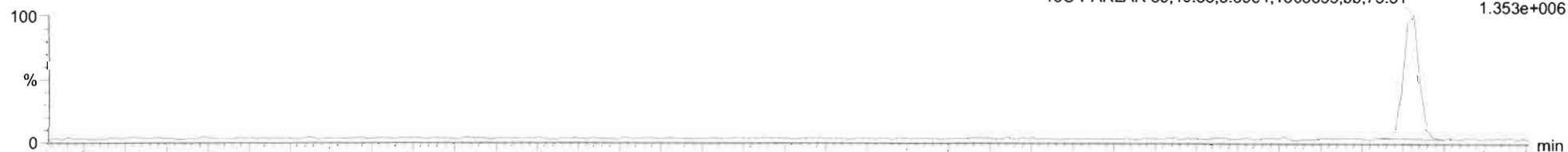
F4:Voltage SIR,EI+
339.9180
5.319e+006



13C-PARLAR 39

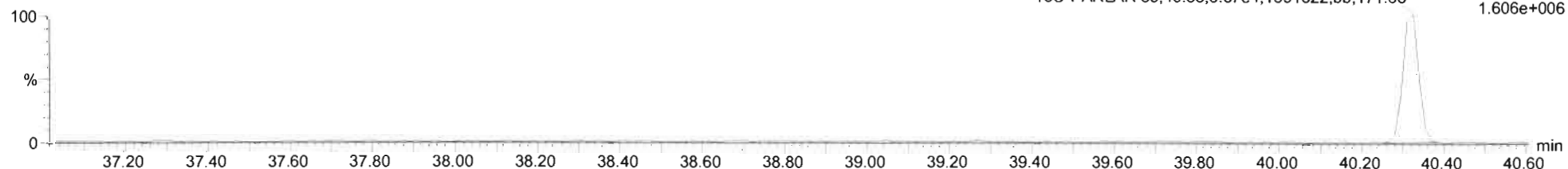
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

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



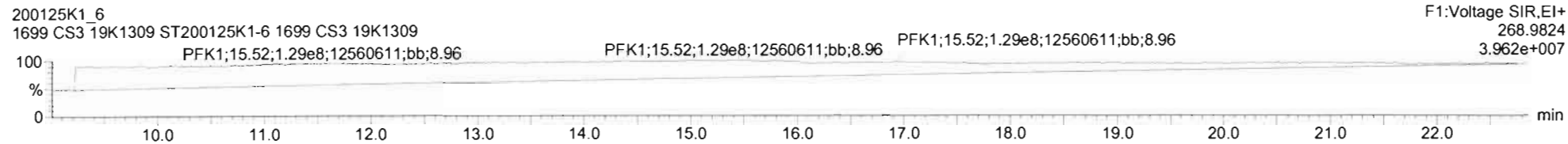
Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

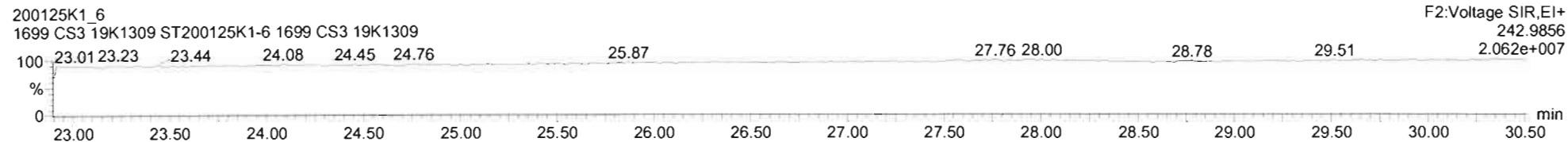
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

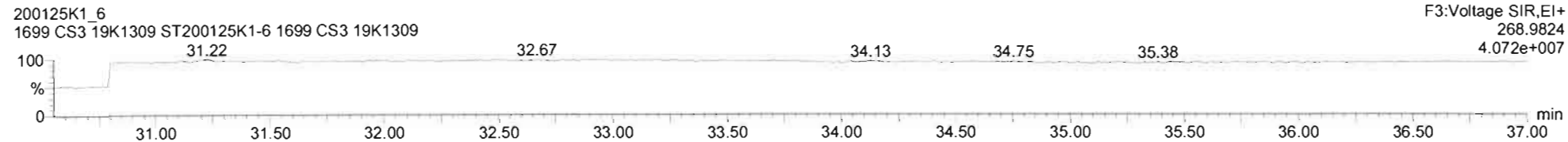
PFK1



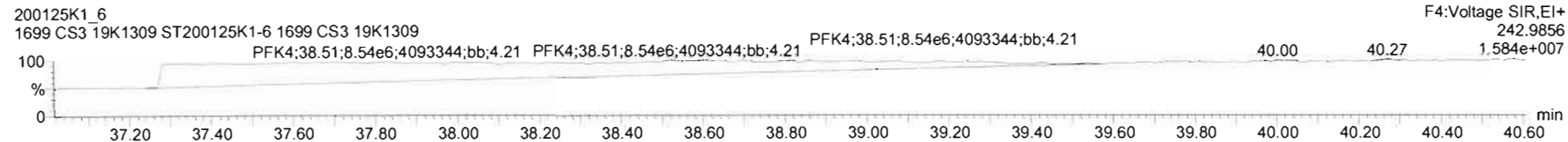
PFK2



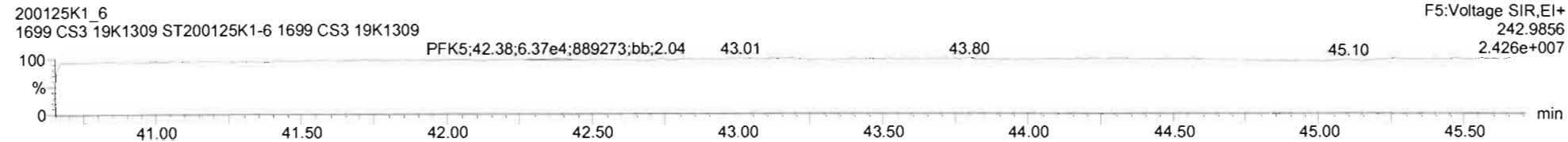
PFK3



PFK4



PFK5



Dataset: Untitled

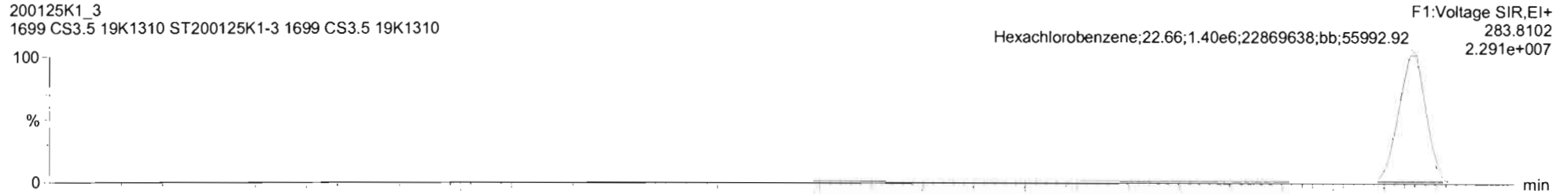
Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

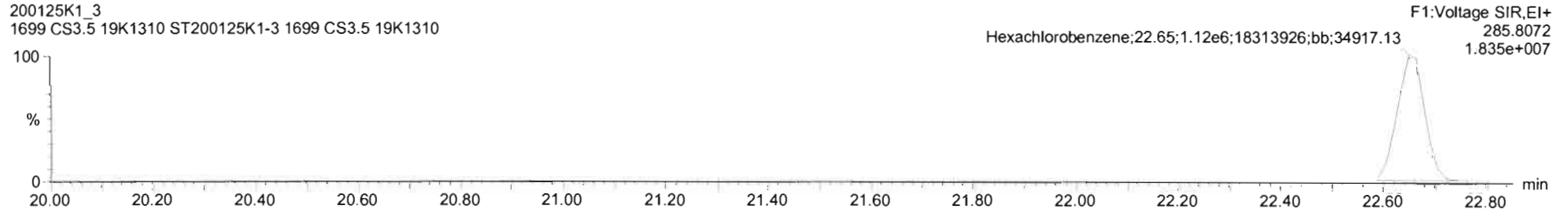
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Hexachlorobenzene

200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

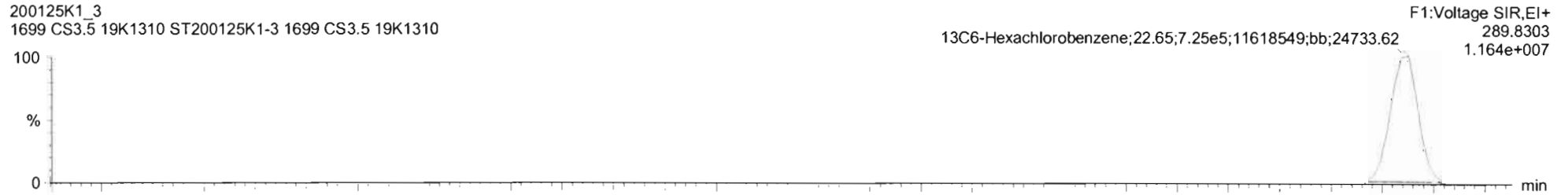


200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

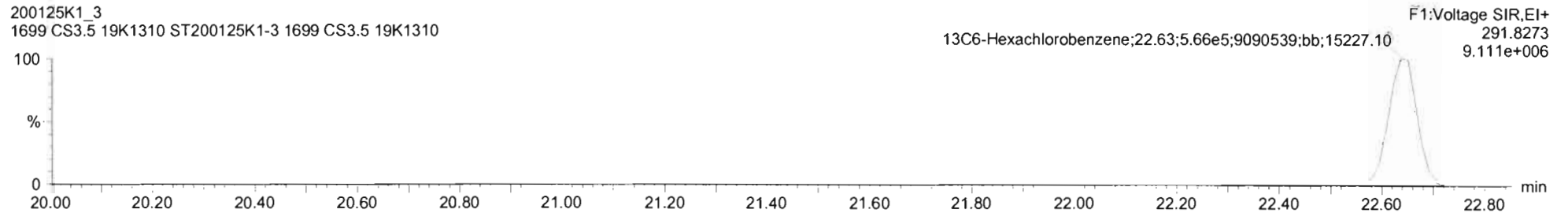


13C6-Hexachlorobenzene

200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310



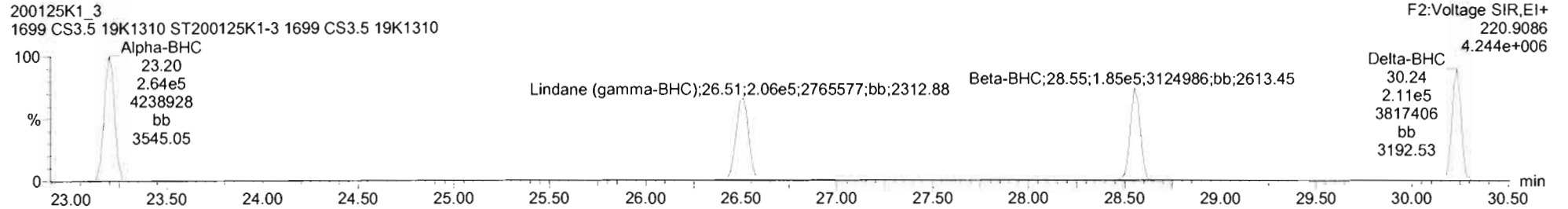
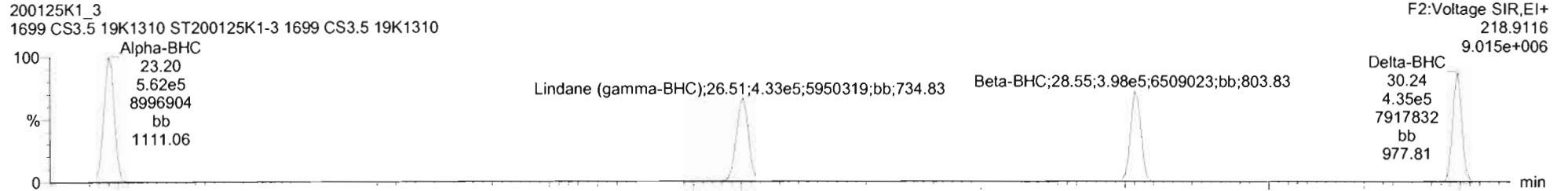
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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

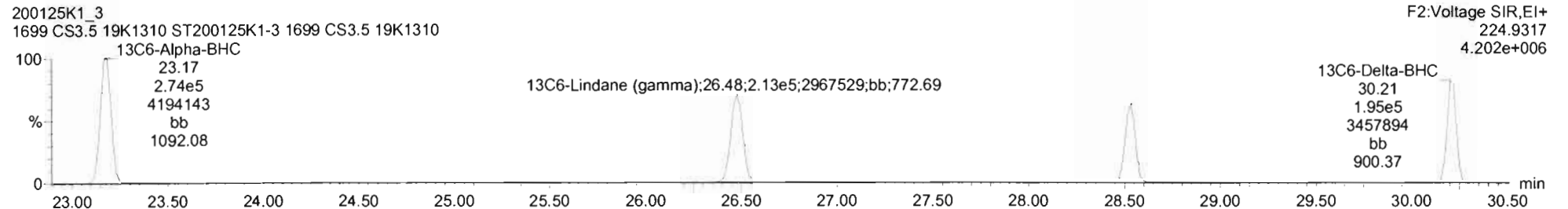
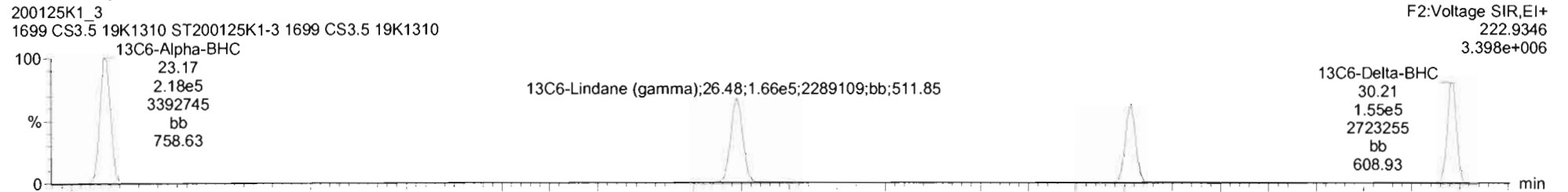
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

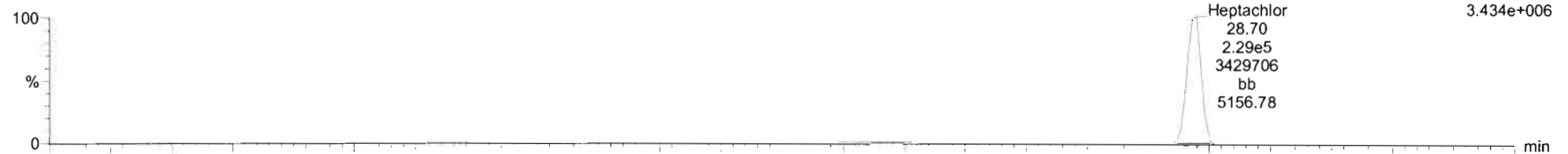
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

Heptachlor

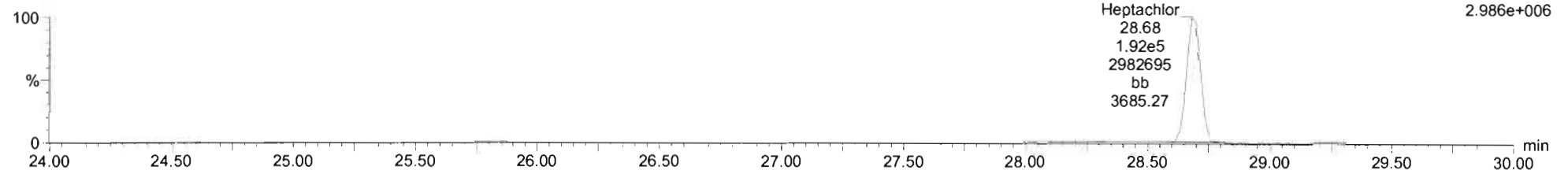
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F2:Voltage SIR,EI+
271.8102
3.434e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

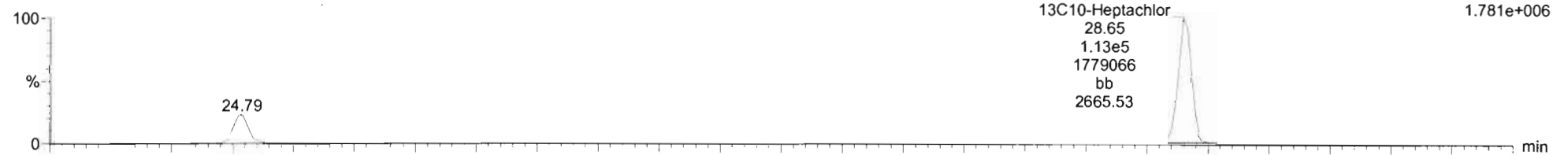
F2:Voltage SIR,EI+
273.8072
2.986e+006



13C10-Heptachlor

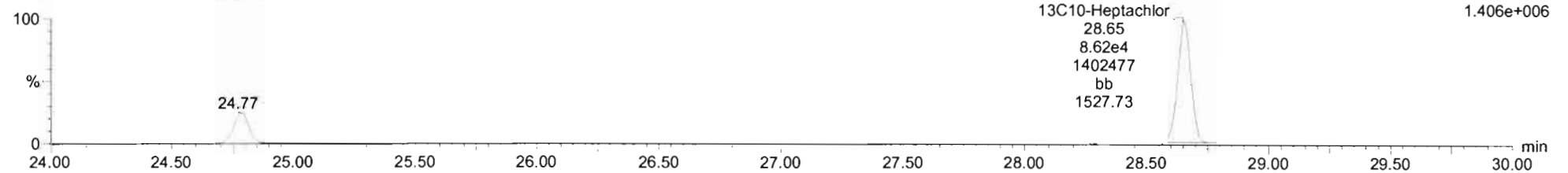
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

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



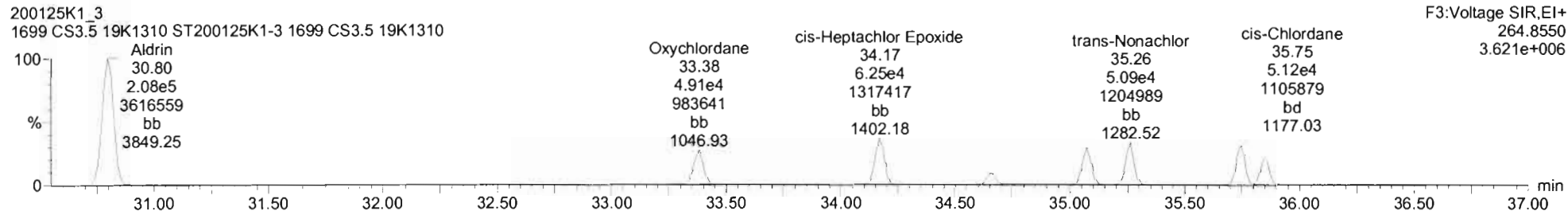
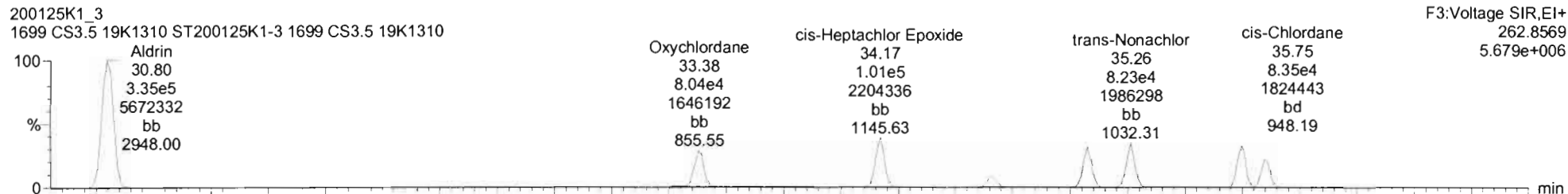
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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

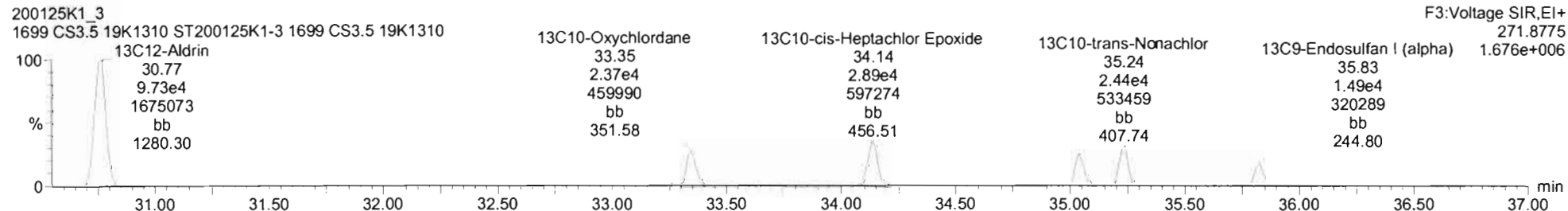
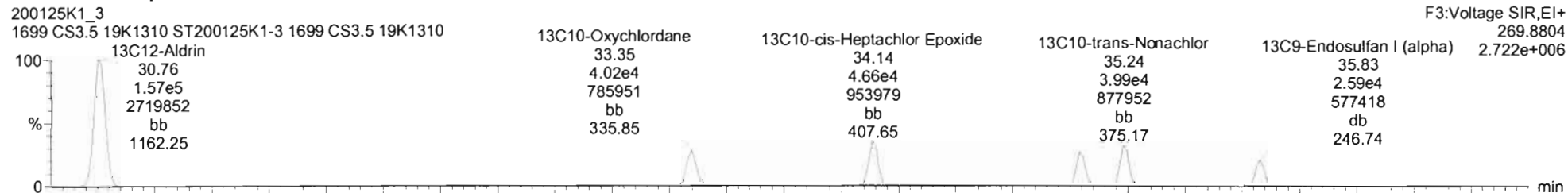
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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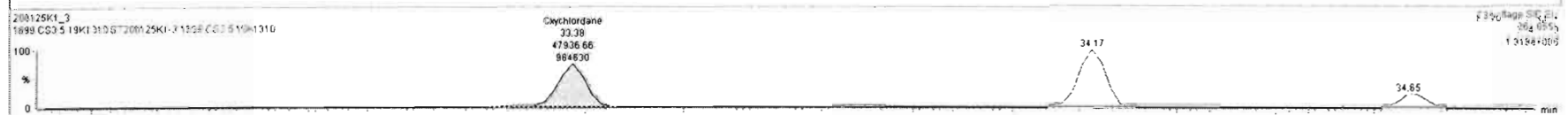
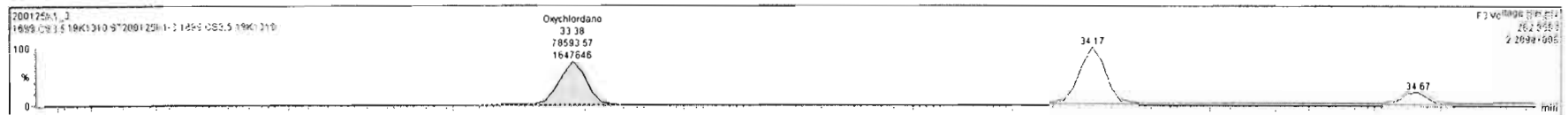
Aldrin-EI



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	0.009	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	2.84e6	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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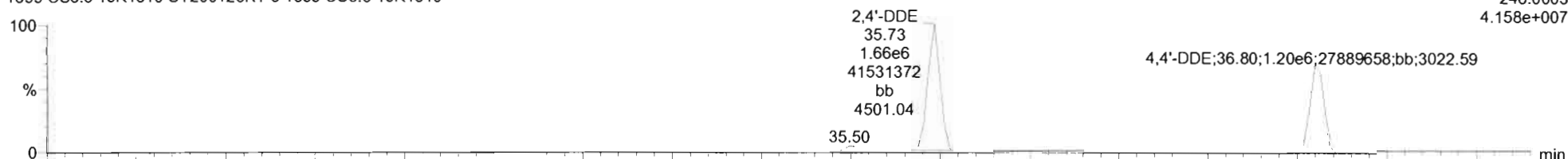
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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

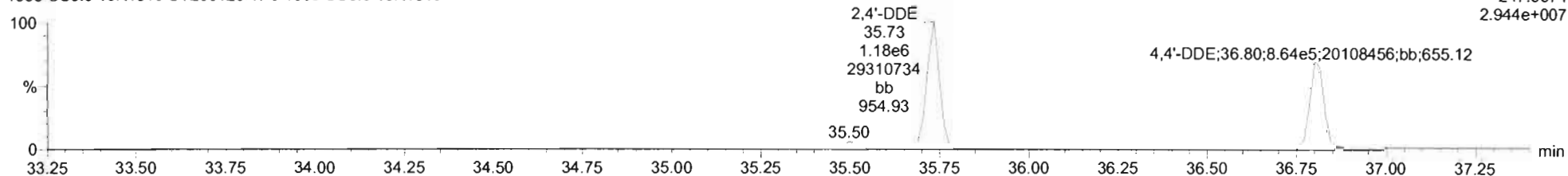
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F3:Voltage SIR,EI+
246.0003
4.158e+007



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

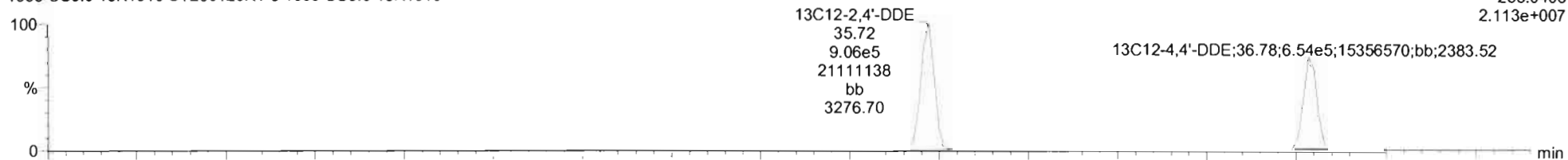
F3:Voltage SIR,EI+
247.9974
2.944e+007



DDE-isotopes

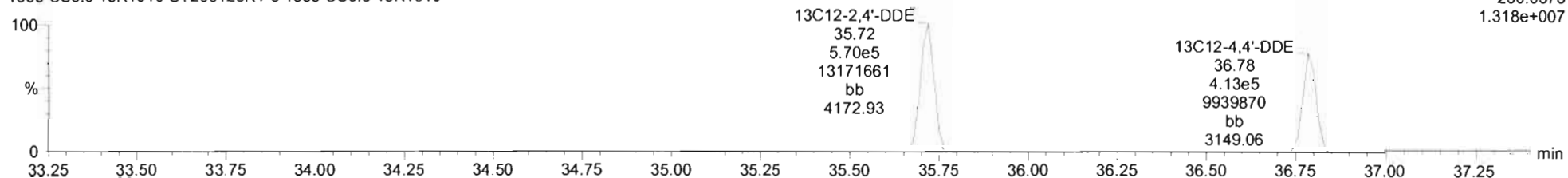
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

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

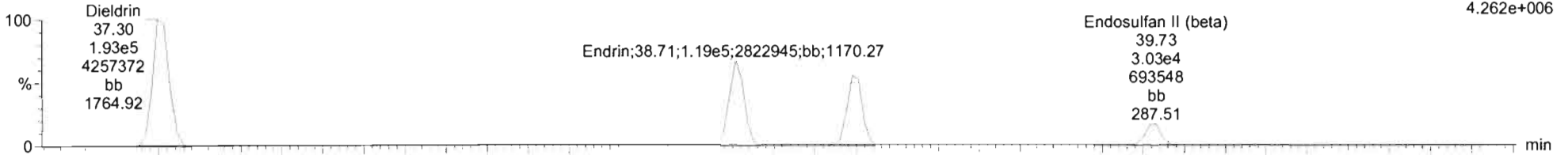
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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Dieldrin-EII

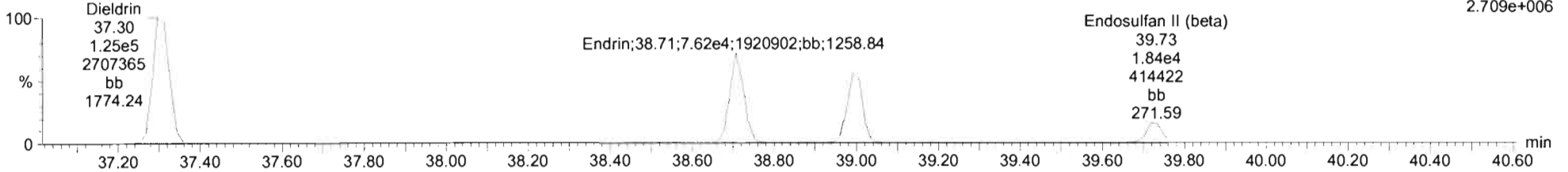
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F4:Voltage SIR,EI+
262.8569
4.262e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

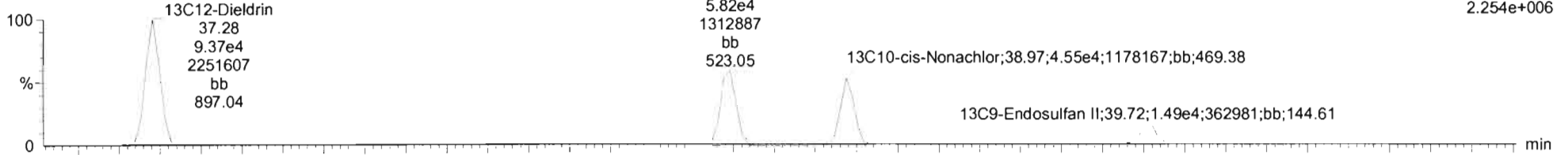
F4:Voltage SIR,EI+
264.8550
2.709e+006



Dieldrin-EII-isotopes

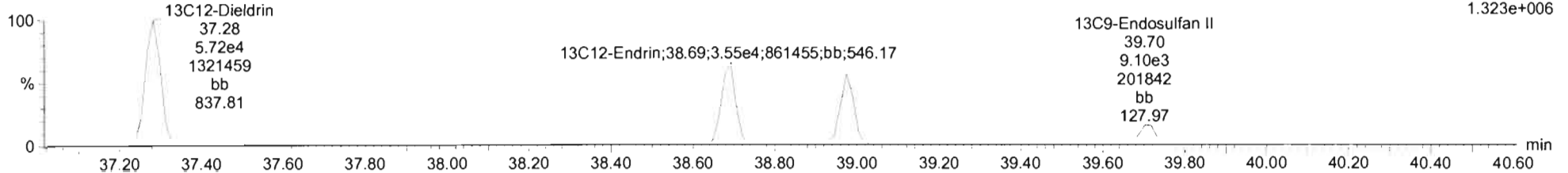
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

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



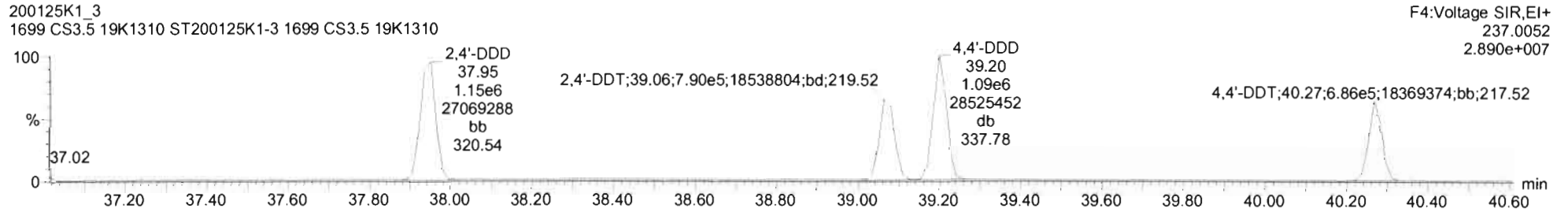
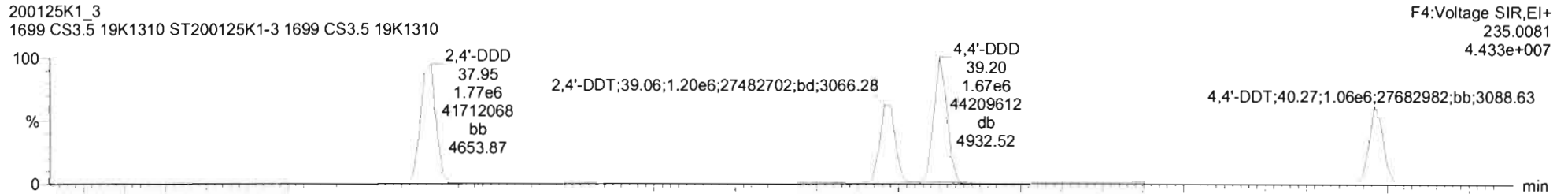
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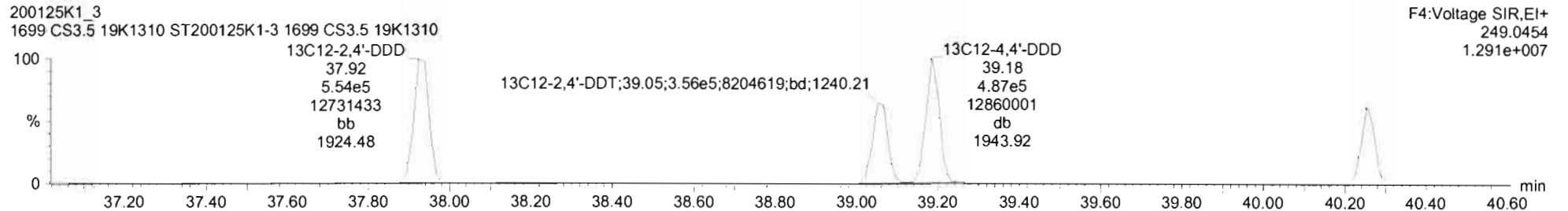
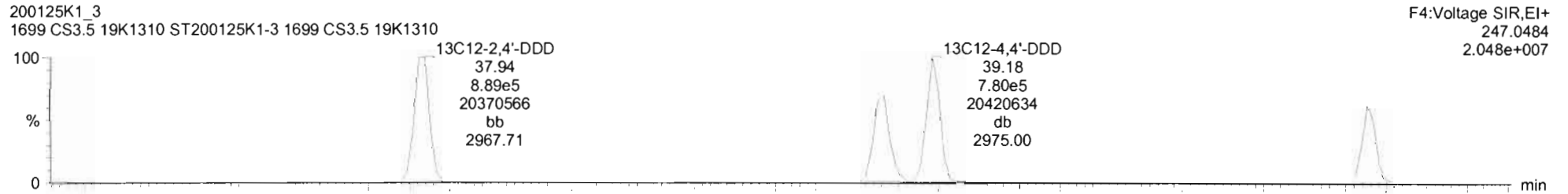
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DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

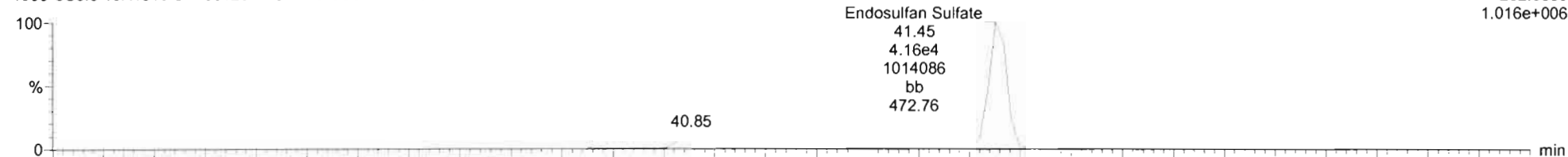
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Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

Endosulfan Sulfate

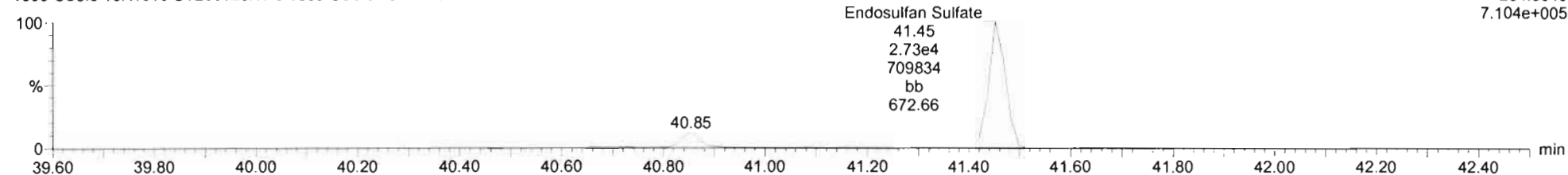
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
262.8569
1.016e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

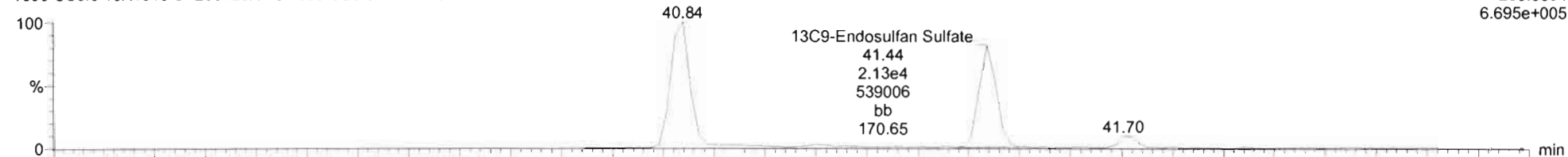
F5:Voltage SIR,EI+
264.8540
7.104e+005



13C9-Endosulfan Sulfate

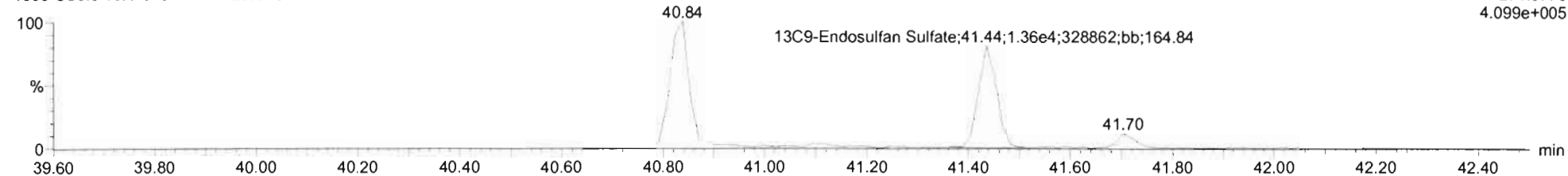
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

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

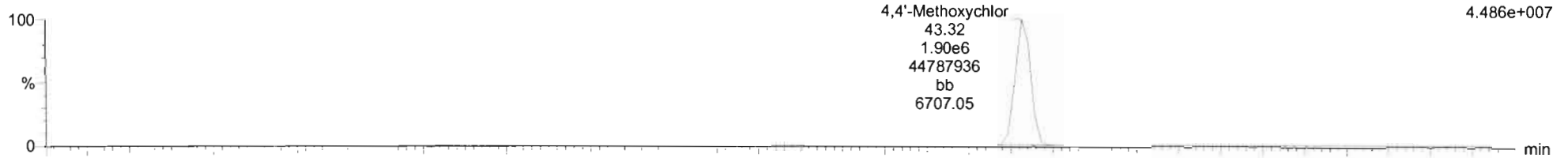
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Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

4,4'-Methoxychlor

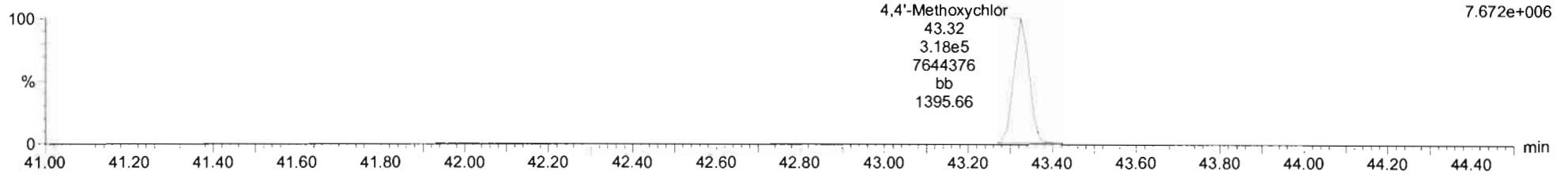
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
227.1072
4.486e+007



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

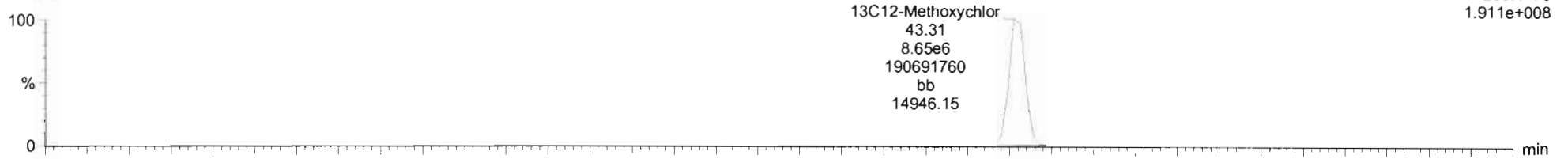
F5:Voltage SIR,EI+
228.1106
7.672e+006



13C12-Methoxychlor

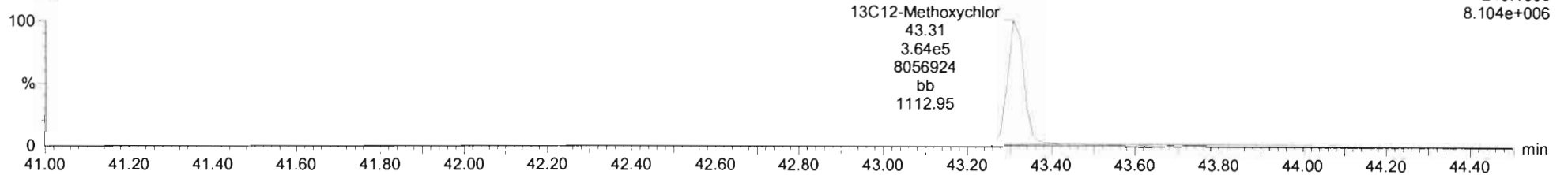
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

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

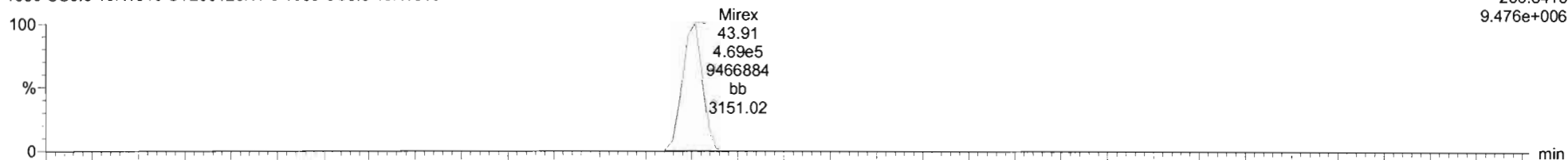
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Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

Mirex

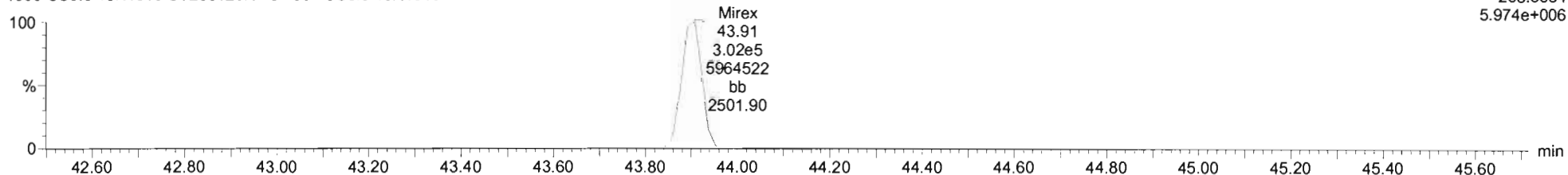
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
236.8413
9.476e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

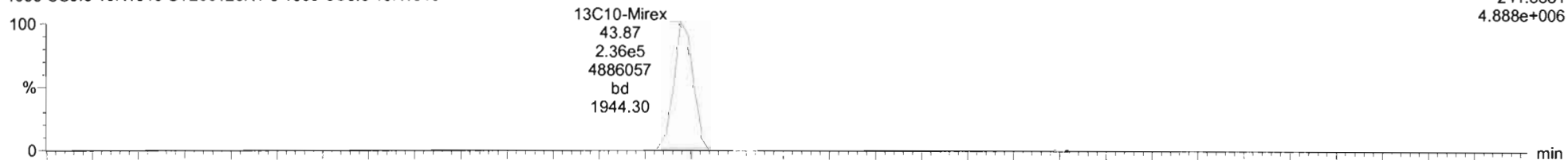
F5:Voltage SIR,EI+
238.8384
5.974e+006



13C10-Mirex

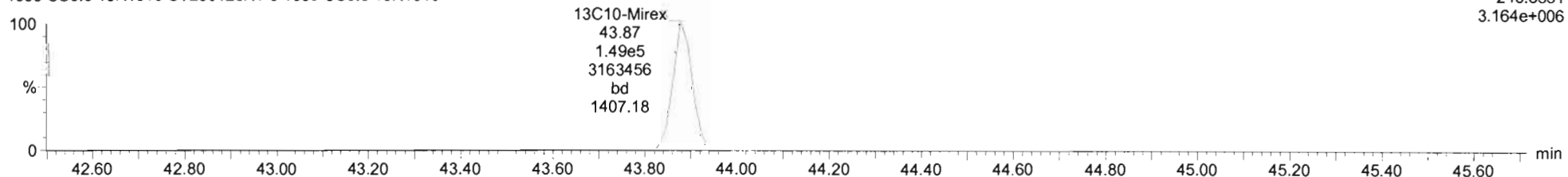
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

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

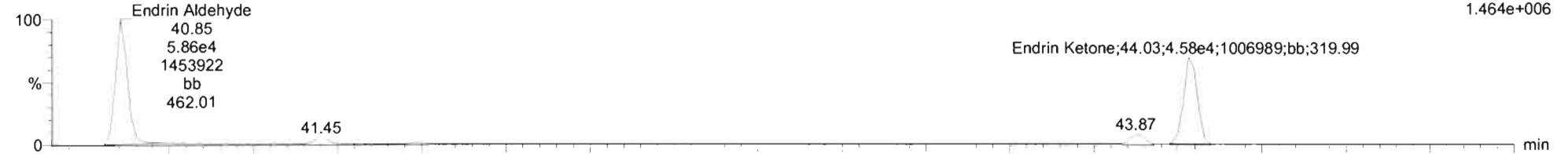
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Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

EA-EK

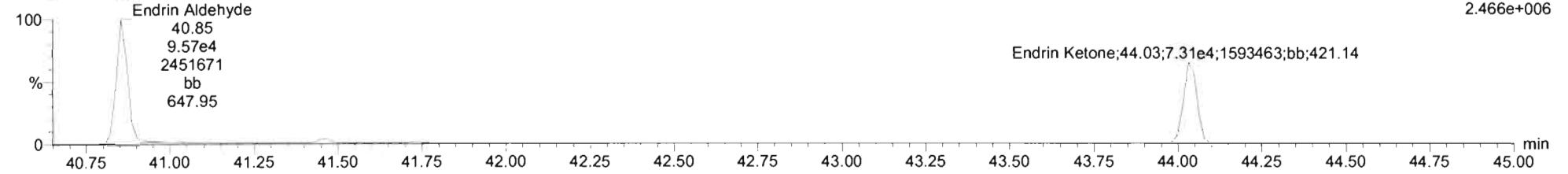
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
247.8521
1.464e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

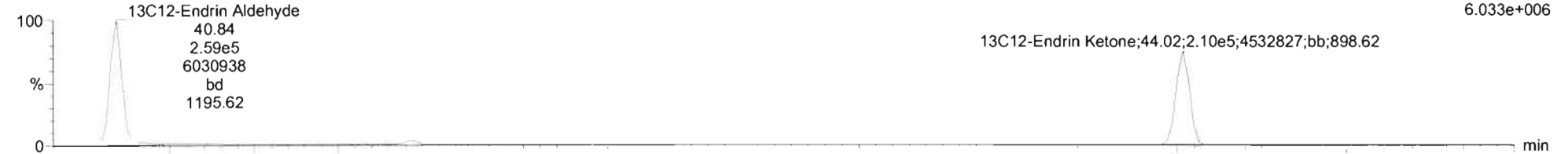
F5:Voltage SIR,EI+
249.8491
2.466e+006



EA-EK-isotopes

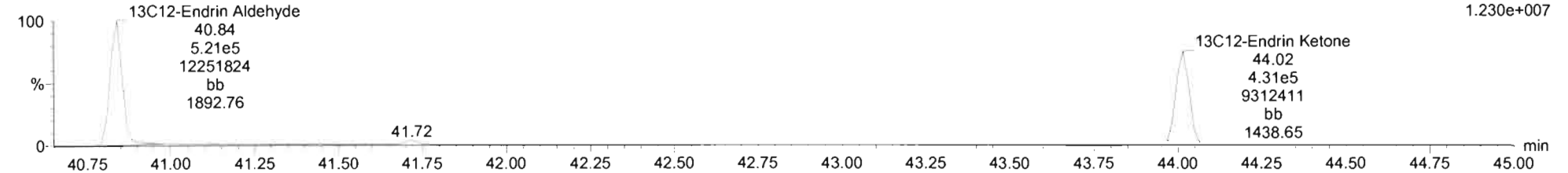
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
253.8722
6.033e+006

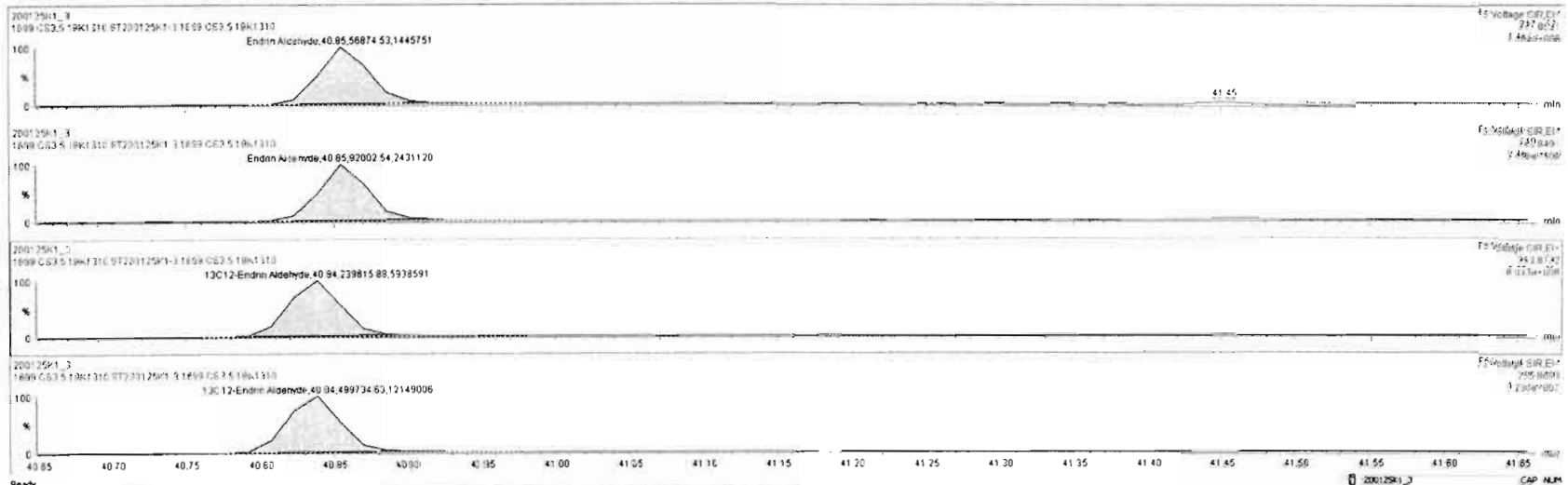


200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
255.8693
1.230e+007



#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtAvd	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	1.56	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	91.5	91.5	0.758	91.5
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	0.258	



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

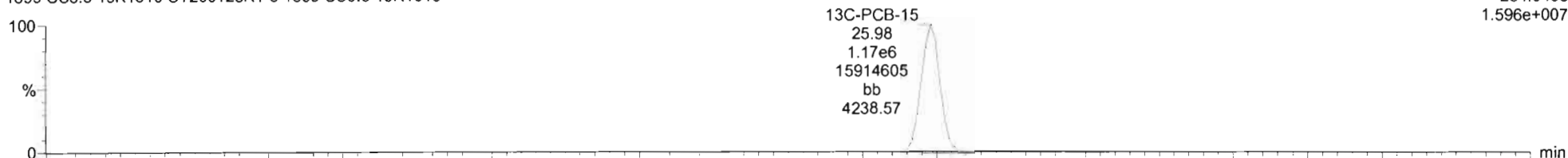
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13C-PCB-15

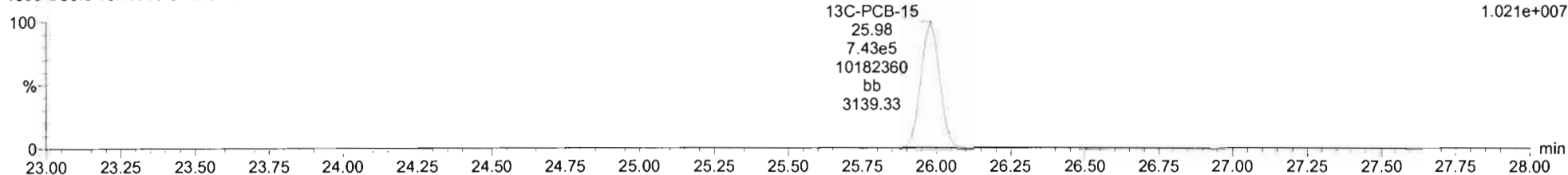
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F2:Voltage SIR,EI+
234.0406
1.596e+007



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

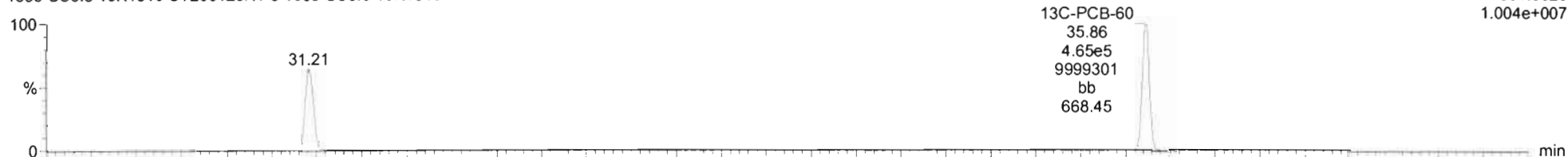
F2:Voltage SIR,EI+
236.0376
1.021e+007



13C-PCB-60

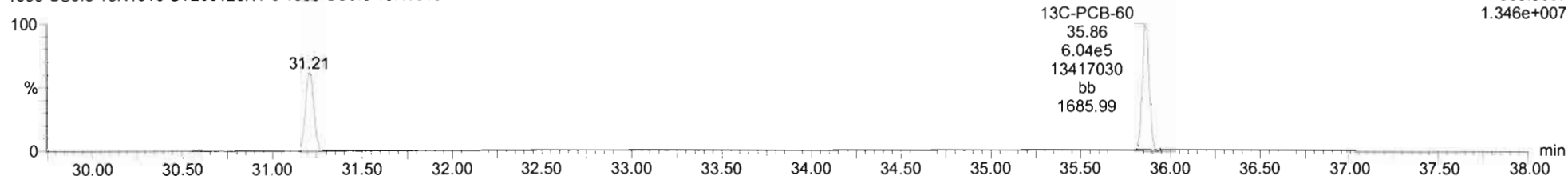
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

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



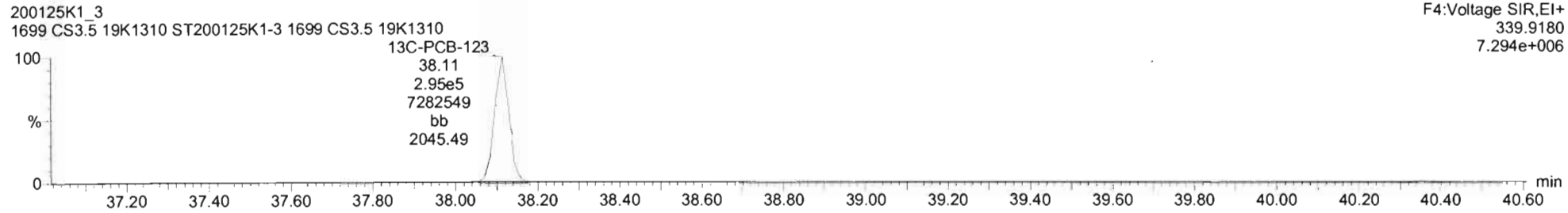
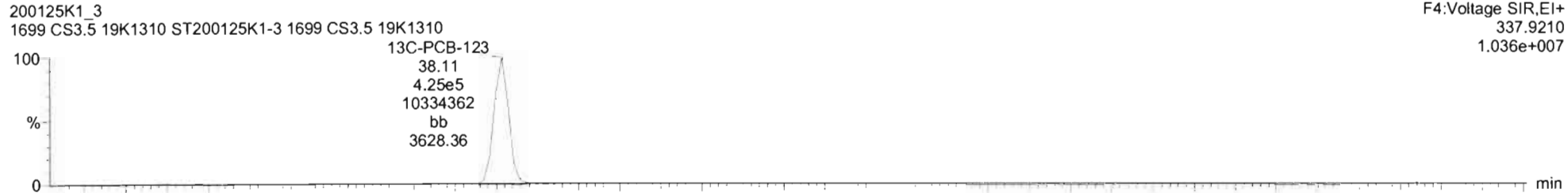
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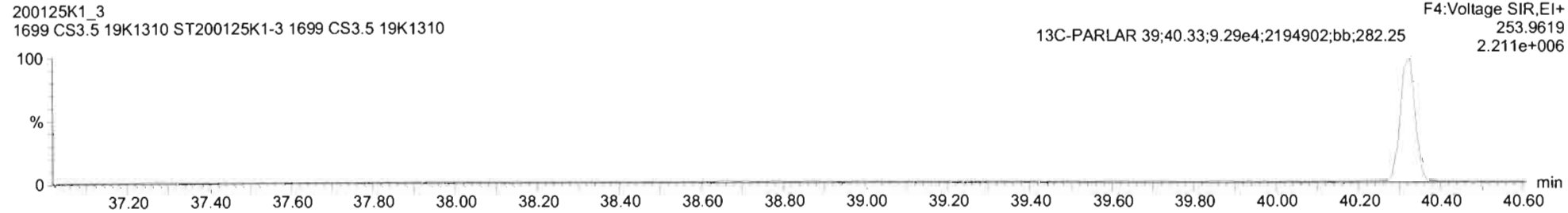
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13C-PCB-123



13C-PARLAR 39



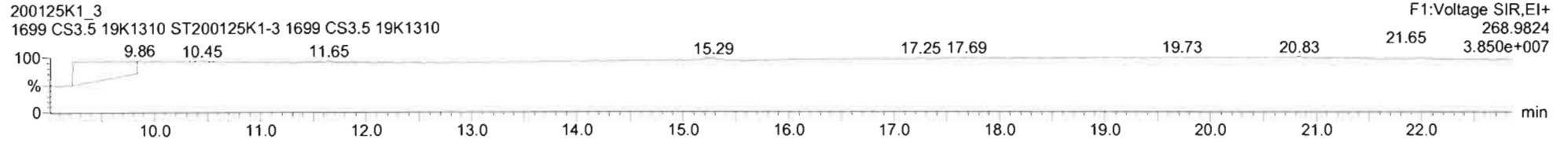
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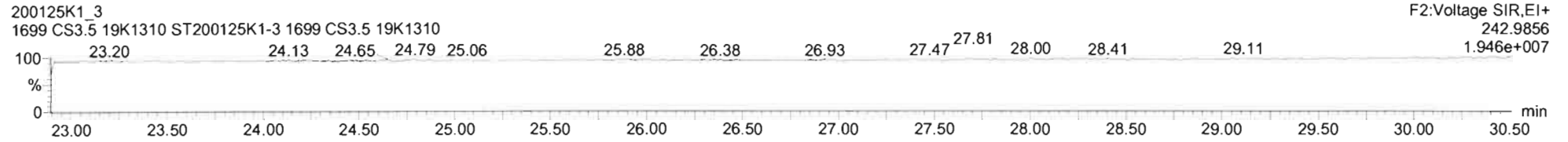
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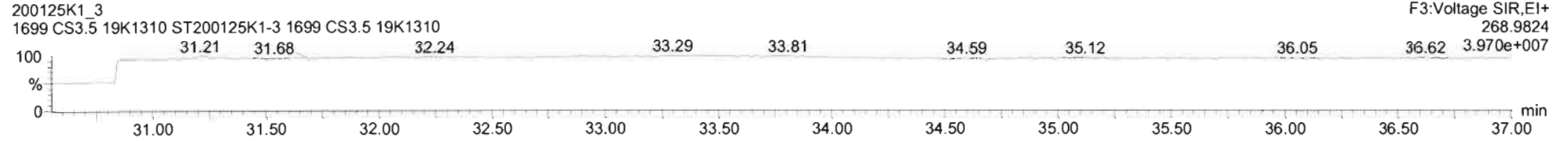
PFK1



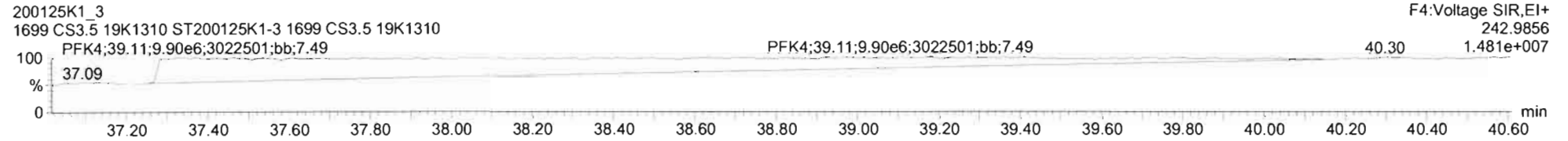
PFK2



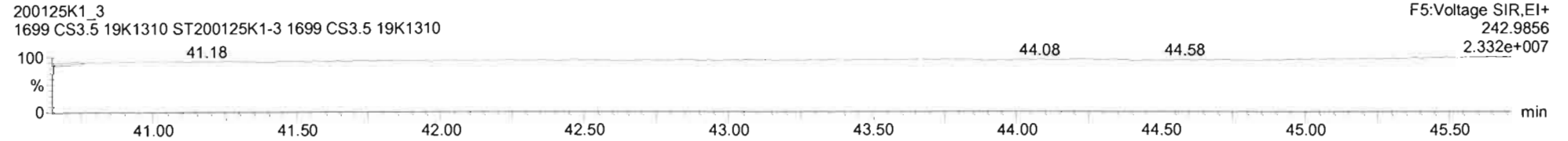
PFK3



PFK4



PFK5



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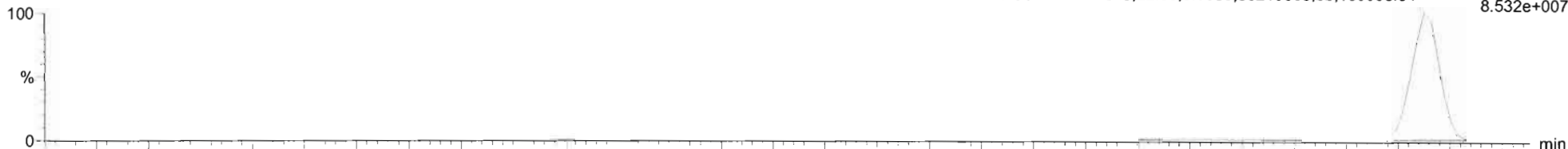
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Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

Hexachlorobenzene

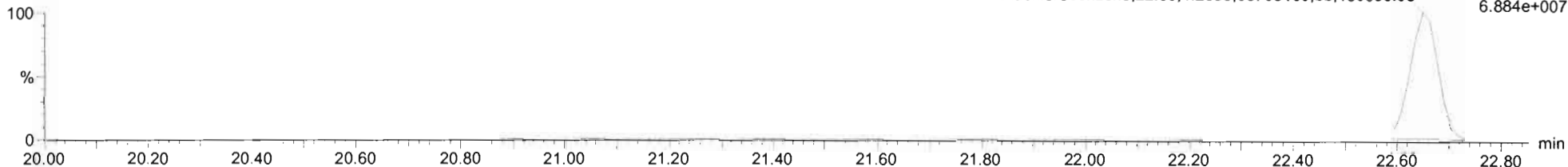
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

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

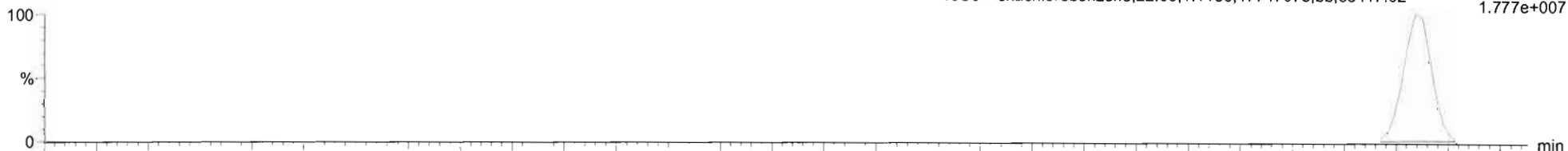
Hexachlorobenzene;22.65;4.28e6;68758160;bb;130096.08
F1:Voltage SIR,EI+
285.8072
6.884e+007



13C6-Hexachlorobenzene

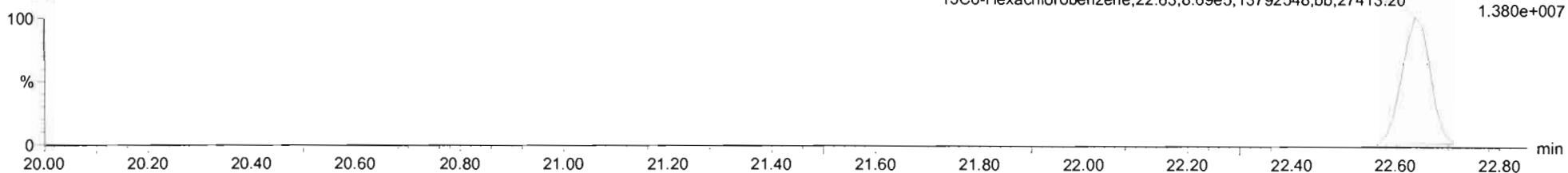
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

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

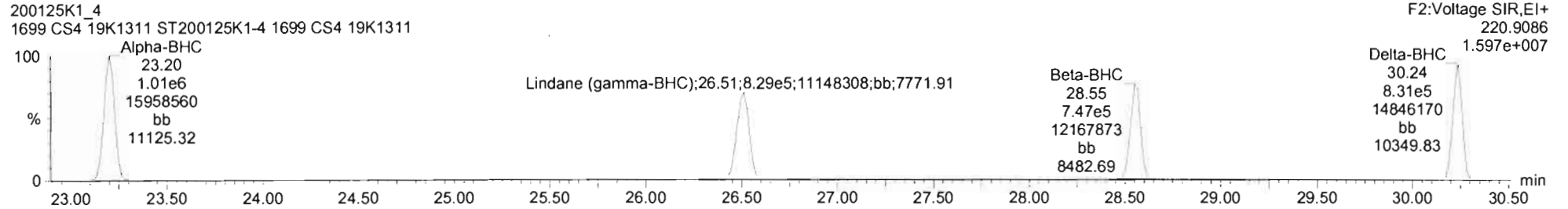
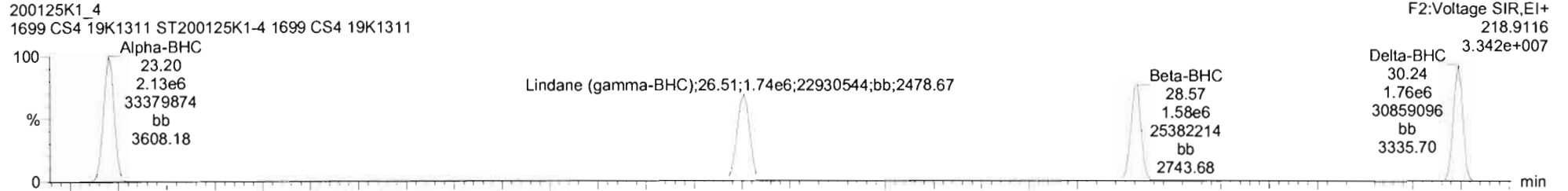


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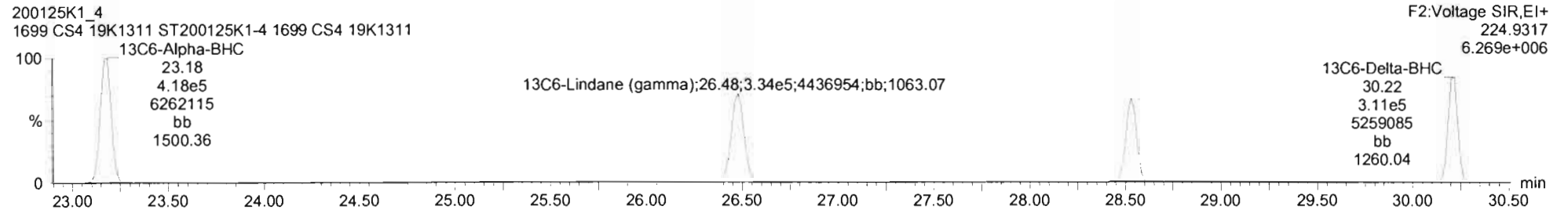
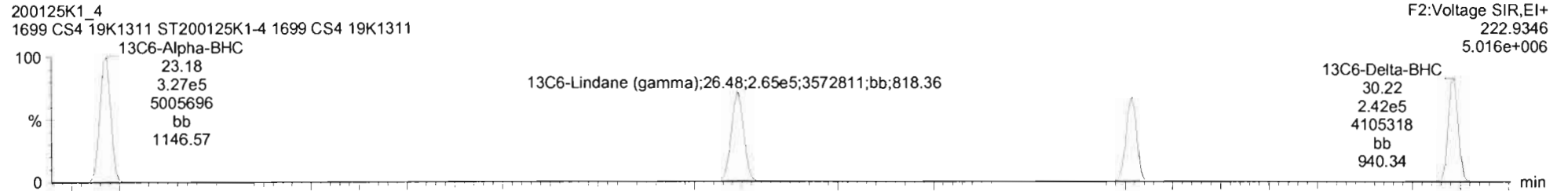
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BHC Totals



BHC-isotopes



Dataset: Untitled

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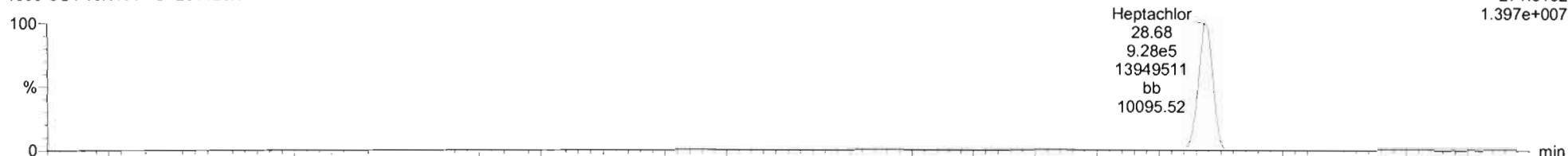
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Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

Heptachlor

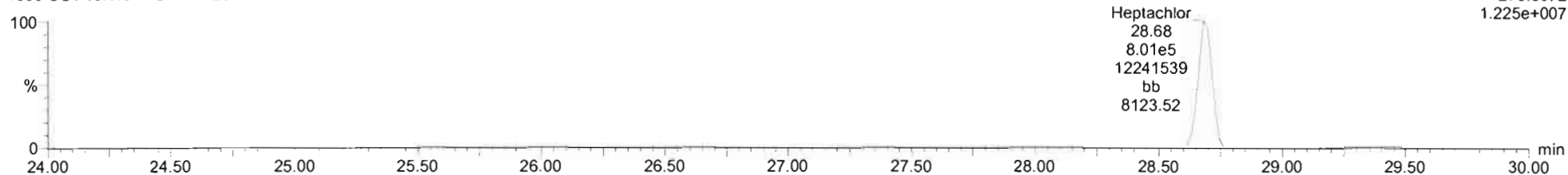
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F2:Voltage SIR,EI+
271.8102
1.397e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

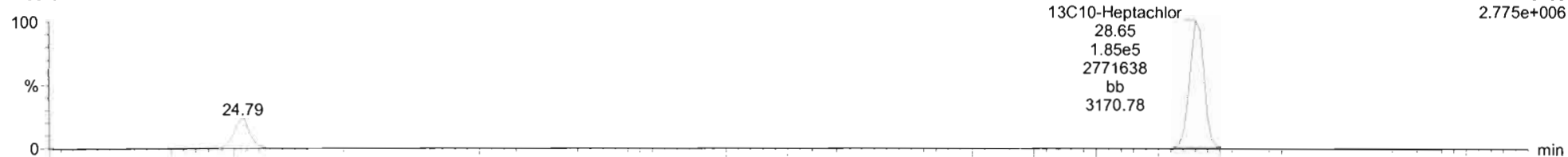
F2:Voltage SIR,EI+
273.8072
1.225e+007



13C10-Heptachlor

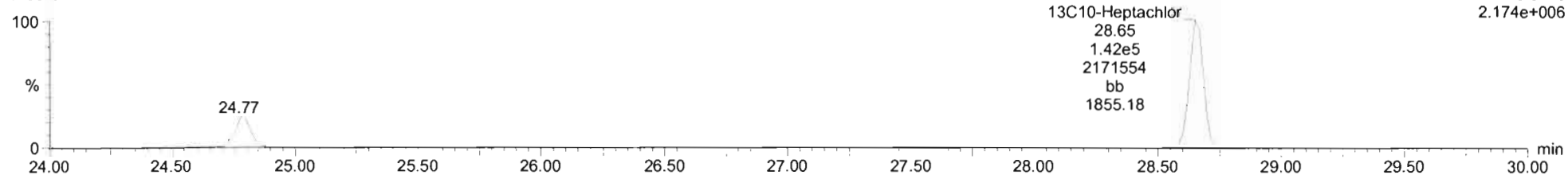
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

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



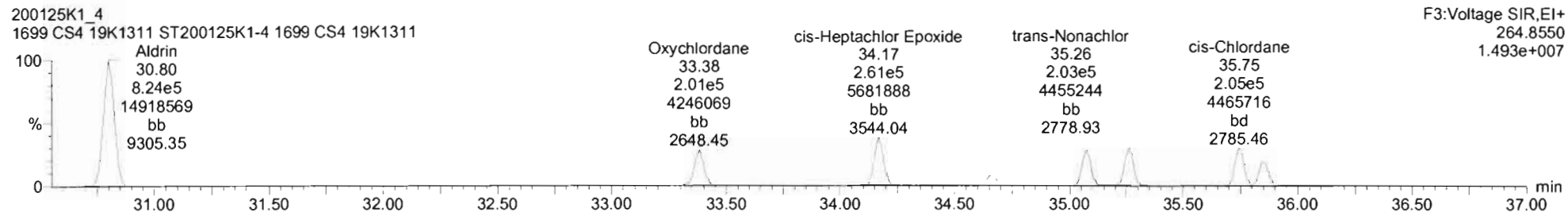
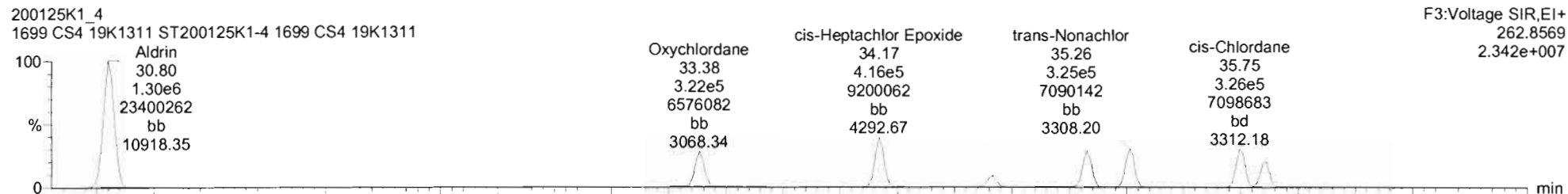
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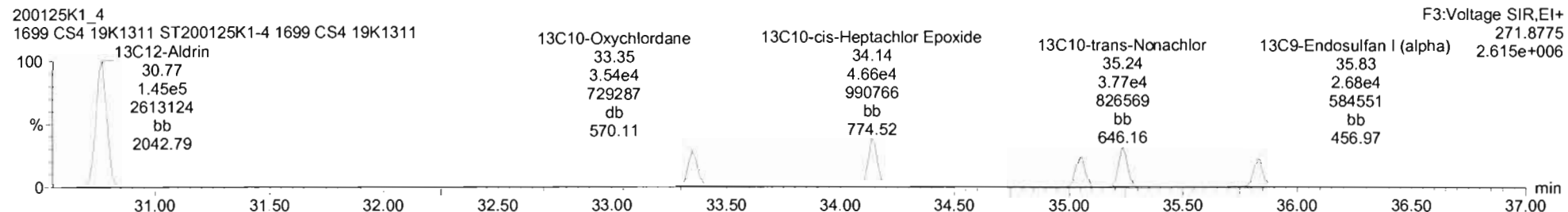
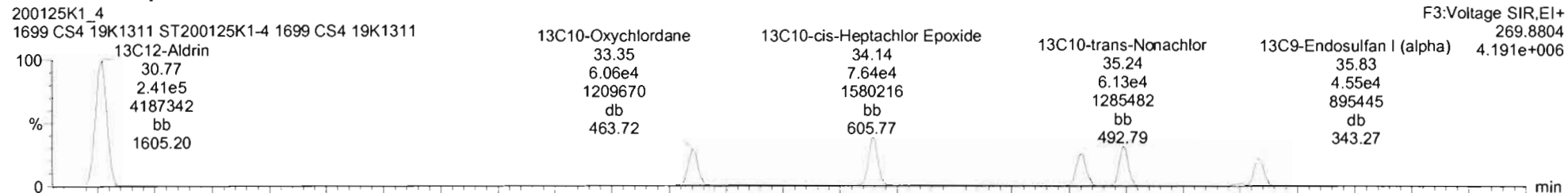
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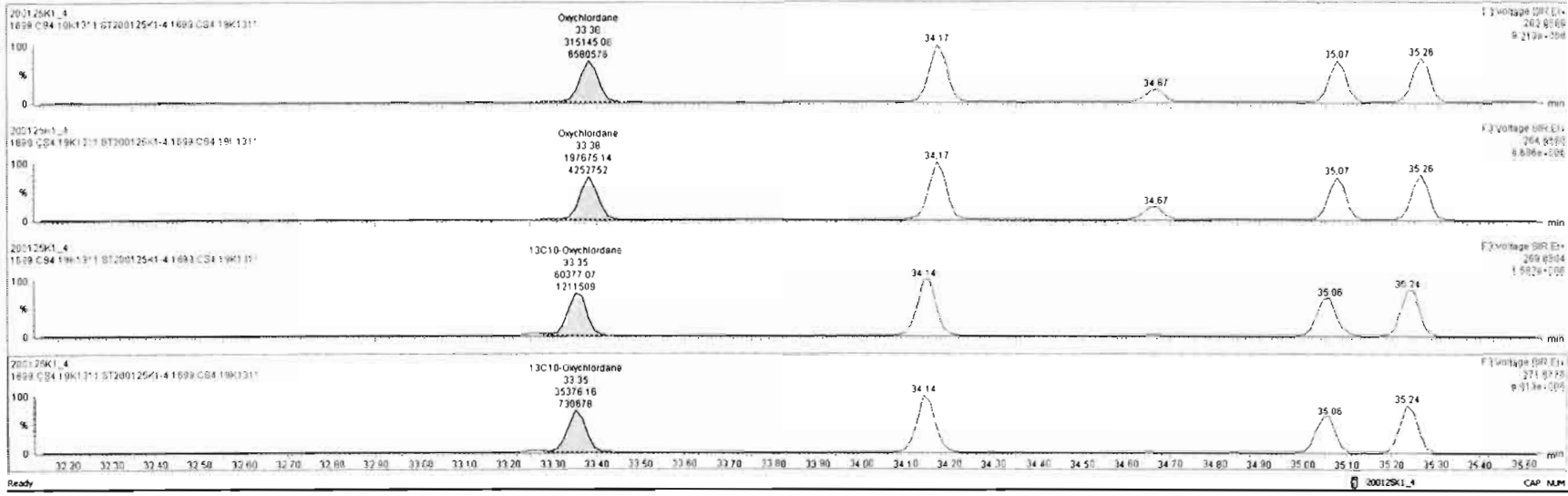
Aldrin-EI



Aldrin-EI-isotopes



#	Name	Resp	IS Resp	SA	RA	n/y	RRF	wt%	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	OL	EMPC
1	Hexachlorobenzene	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	9.59e5	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	0.9617	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	2.69	NO	0.8690	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	0.8521	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	Alzin	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	35.28	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



Dataset: Untitled

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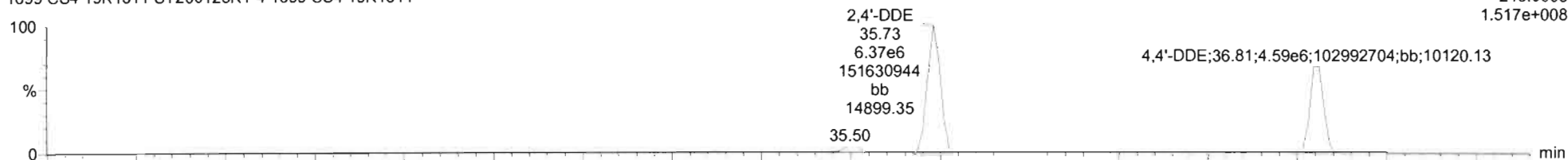
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DDMU-DDE

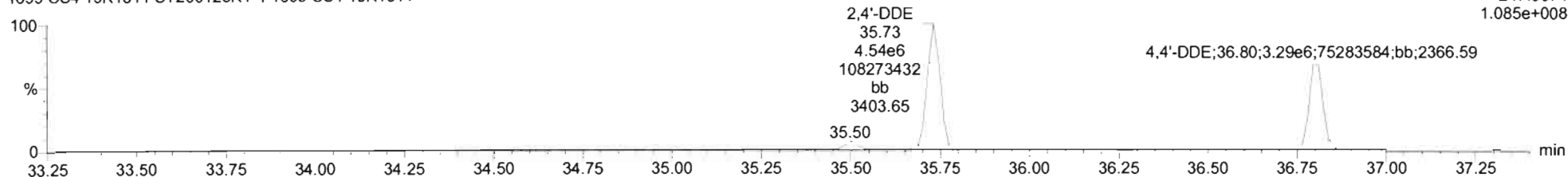
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1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F3:Voltage SIR,EI+
246.0003
1.517e+008



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

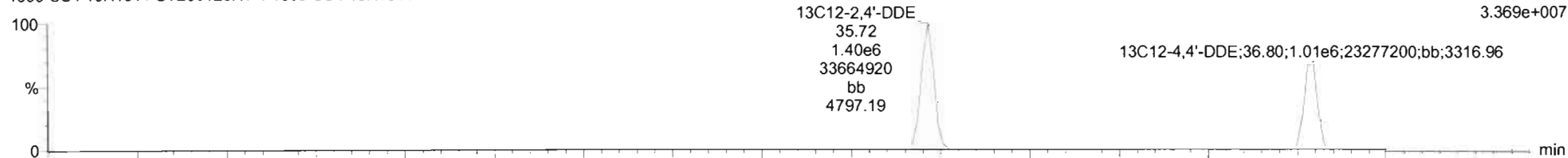
F3:Voltage SIR,EI+
247.9974
1.085e+008



DDE-isotopes

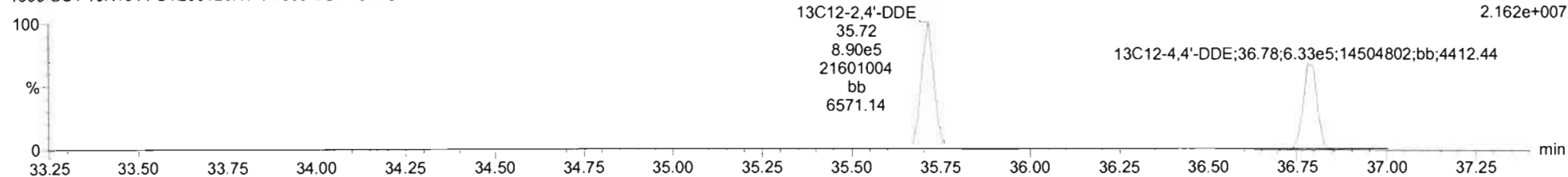
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

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

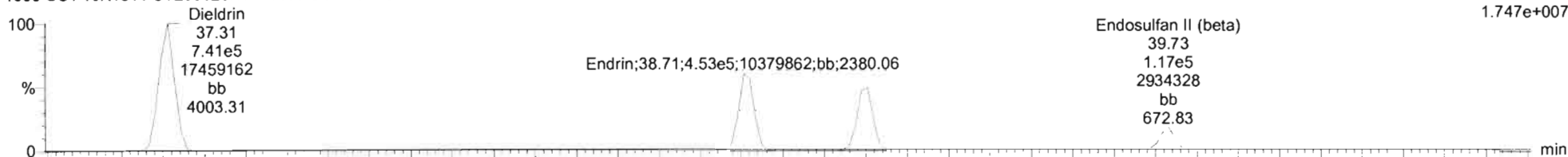
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

Dieldrin-EII

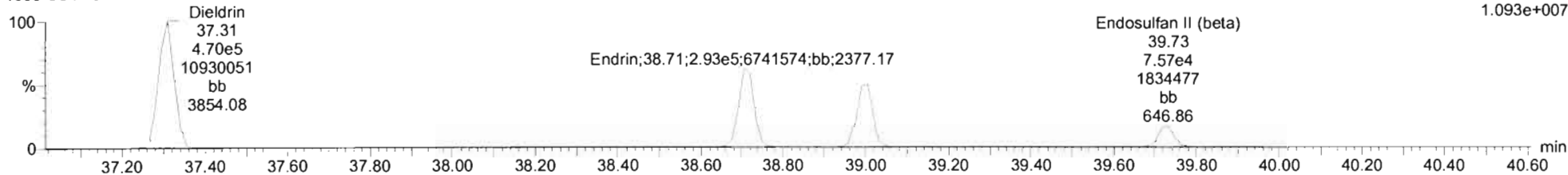
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
262.8569
1.747e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

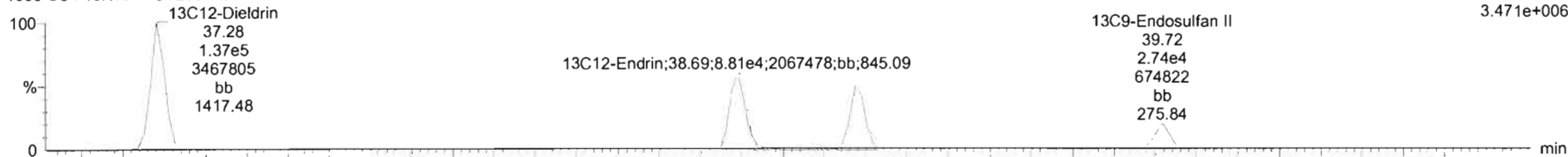
F4:Voltage SIR,EI+
264.8550
1.093e+007



Dieldrin-EII-isotopes

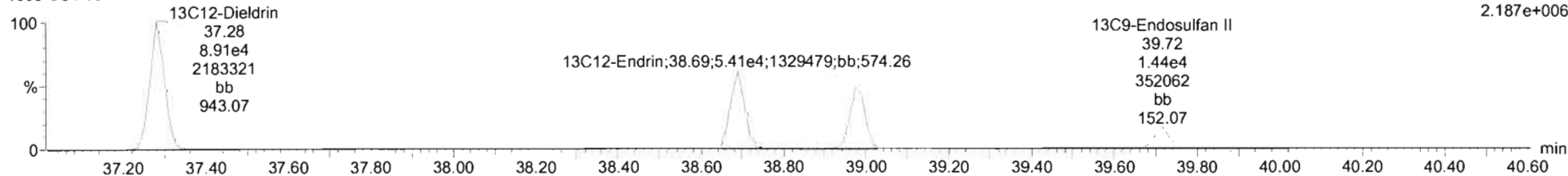
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

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

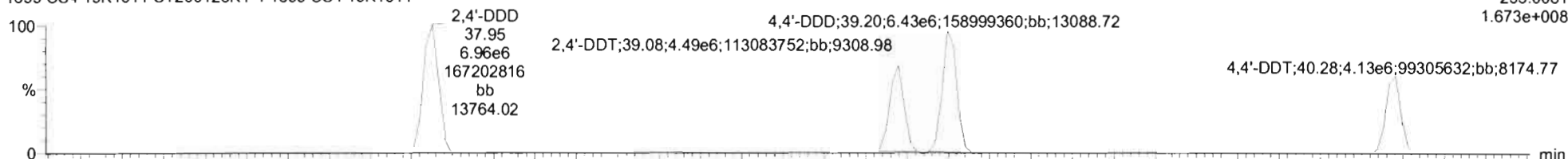
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

DDD-DDT

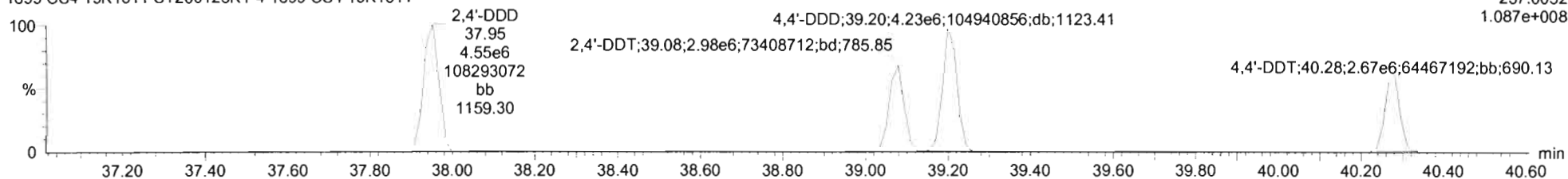
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
235.0081
1.673e+008



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

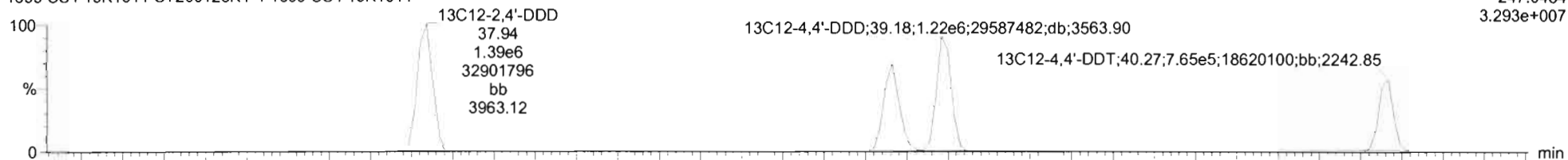
F4:Voltage SIR,EI+
237.0052
1.087e+008



DDD-DDT-isotopes

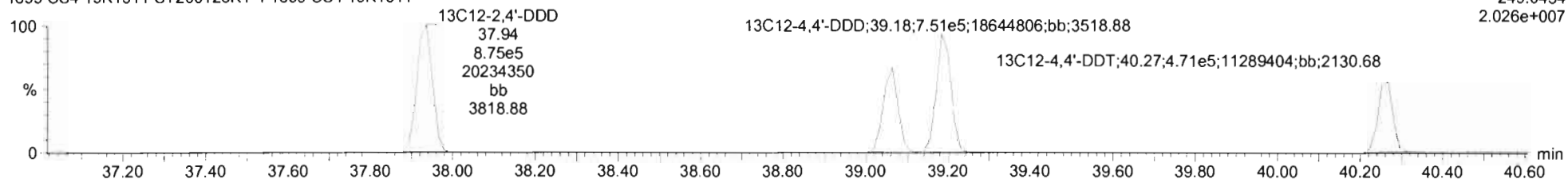
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

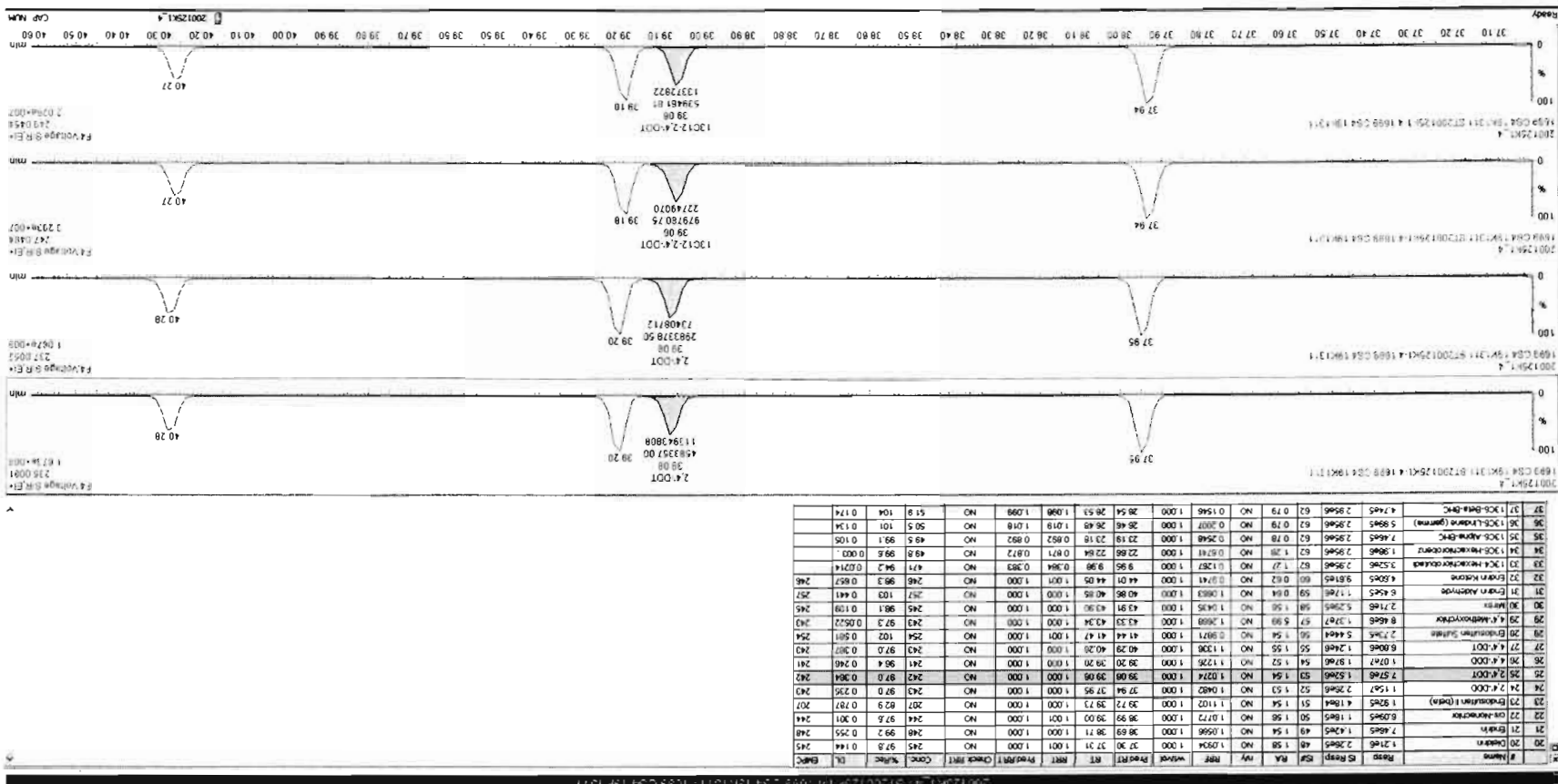
F4:Voltage SIR,EI+
247.0484
3.293e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
249.0454
2.026e+007





#	Name	IS	Resp	RF	RA	RV	RRF	Waved	Prod RT	RT	RRF	Prod RT	Comp	%Bnc	CL	EMPC	
20	Chanen	1	2885	48	1.58	NO	1.0594	1.000	37.30	37.31	1.001	1.000	NO	245	97.5	0.144	245
21	Chanen	1	4855	1	1.85	NO	1.0566	1.000	38.69	38.71	1.000	1.000	NO	248	99.2	0.255	248
22	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
23	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
24	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
25	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
26	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
27	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
28	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
29	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
30	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
31	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
32	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
33	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
34	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
35	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
36	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244
37	Chanen	1	6095	1	1.85	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.5	0.301	244

Dataset: Untitled

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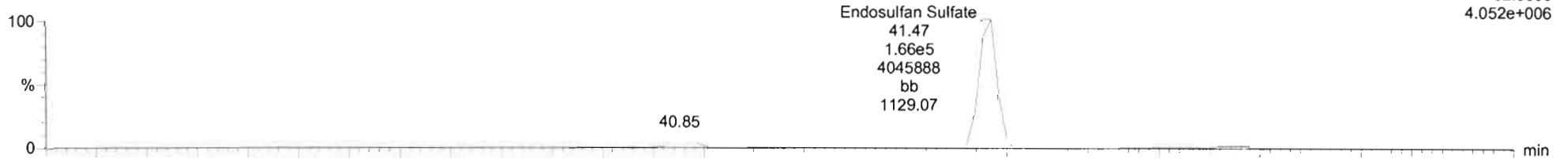
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

Endosulfan Sulfate

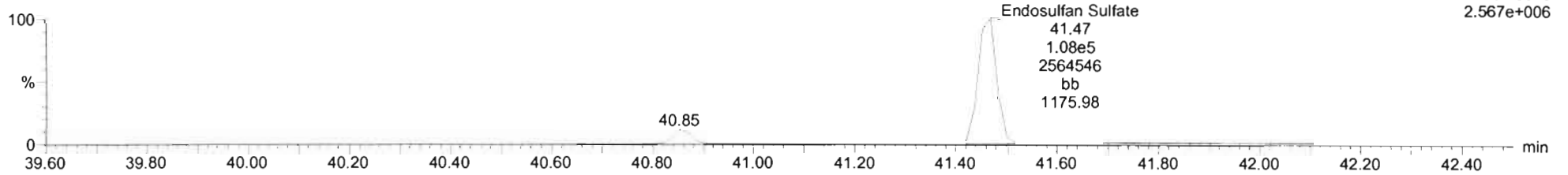
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
262.8569
4.052e+006



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

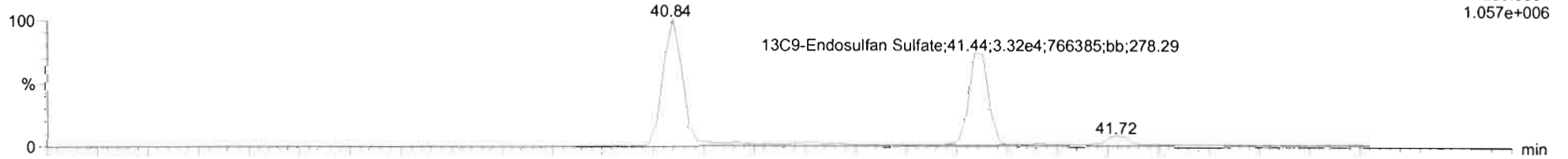
F5:Voltage SIR,EI+
264.8540
2.567e+006



13C9-Endosulfan Sulfate

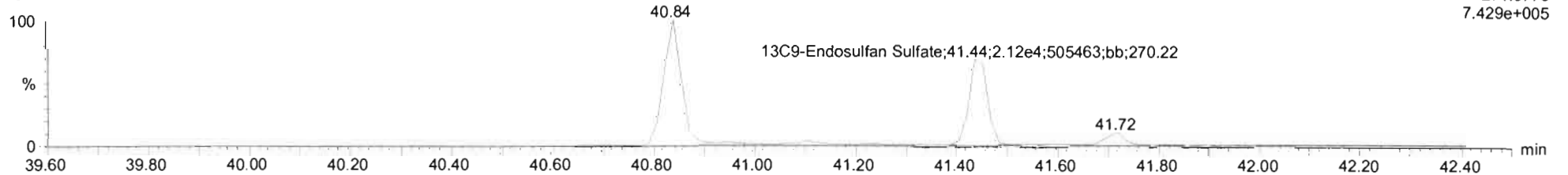
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

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

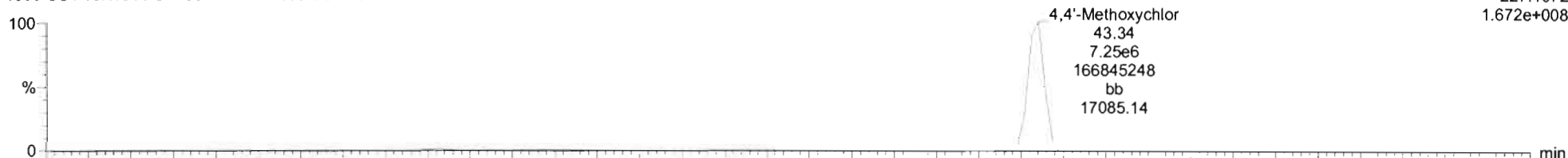
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

4,4'-Methoxychlor

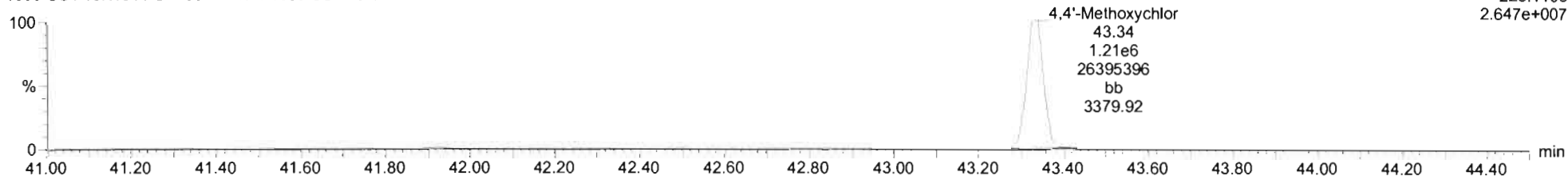
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
227.1072
1.672e+008



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

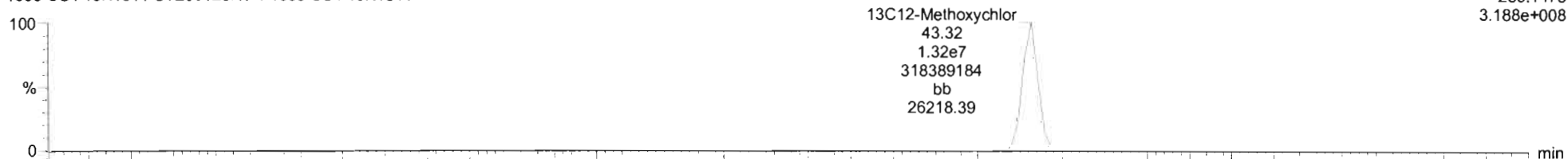
F5:Voltage SIR,EI+
228.1106
2.647e+007



13C12-Methoxychlor

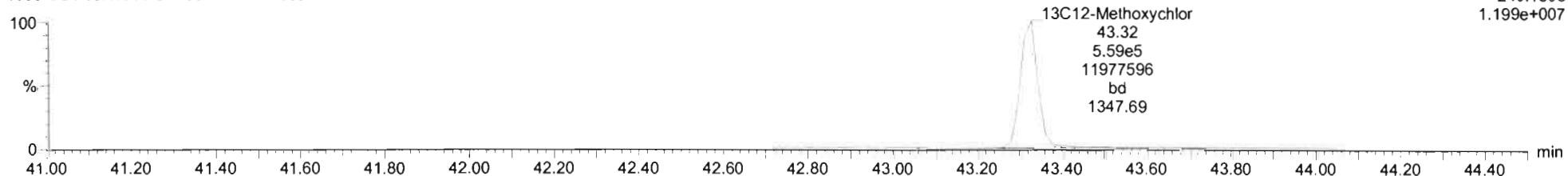
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

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

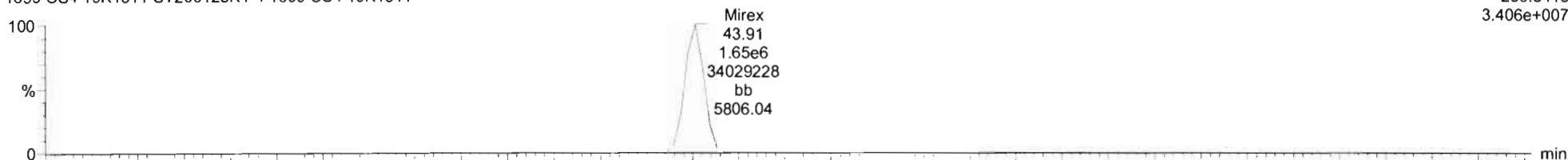
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Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

Mirex

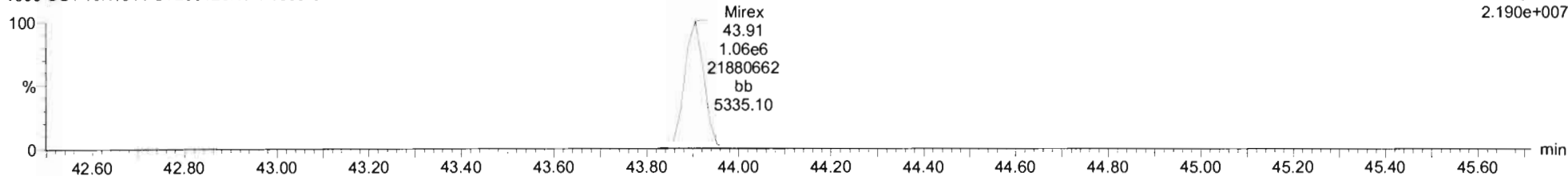
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
236.8413
3.406e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

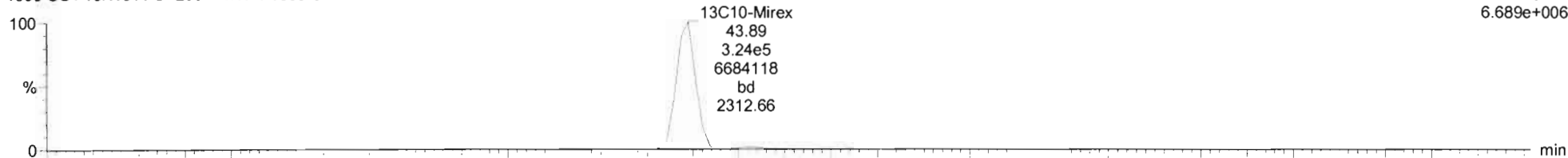
F5:Voltage SIR,EI+
238.8384
2.190e+007



13C10-Mirex

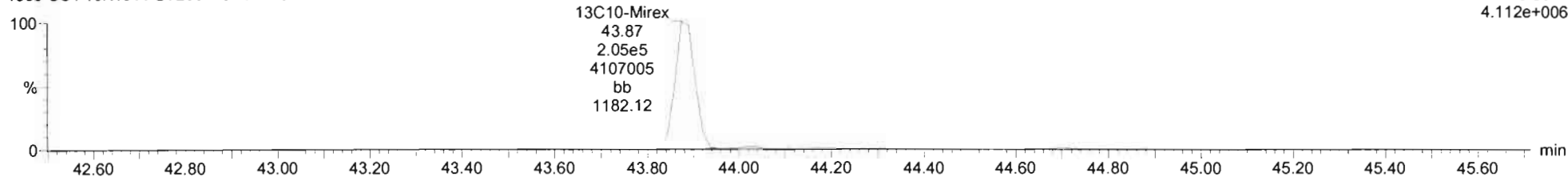
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

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

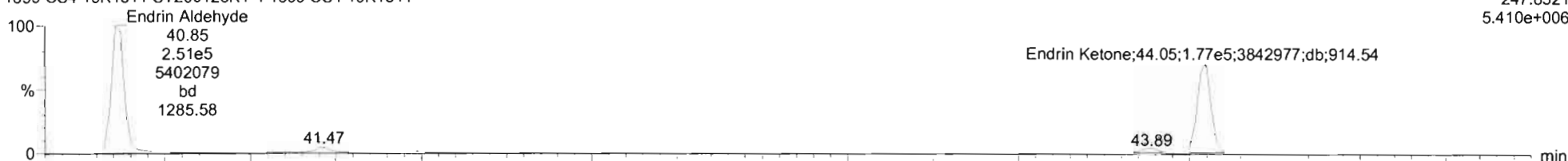
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

EA-EK

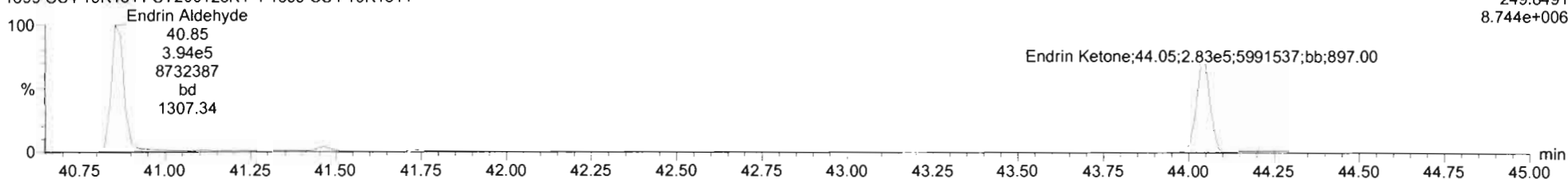
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
247.8521
5.410e+006



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

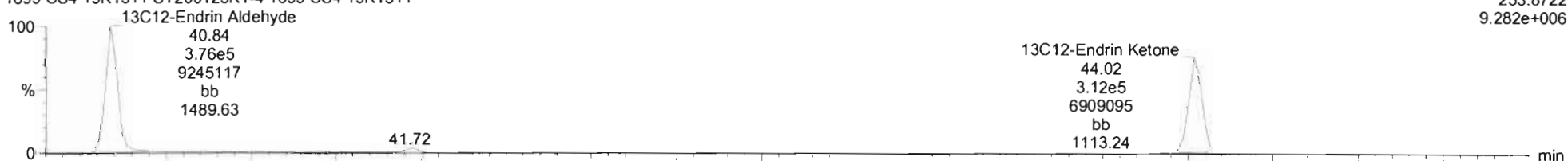
F5:Voltage SIR,EI+
249.8491
8.744e+006



EA-EK-isotopes

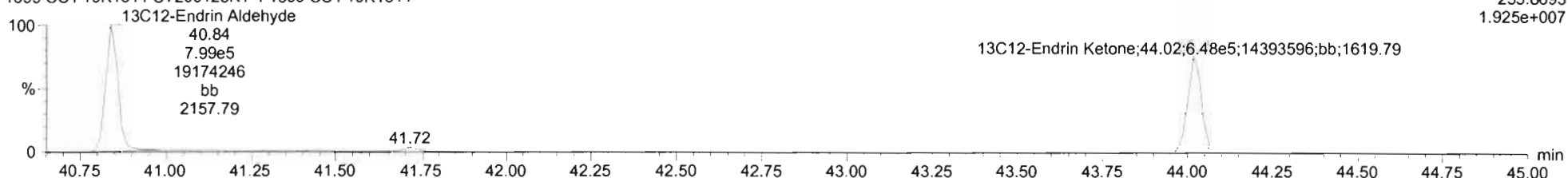
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
253.8722
9.282e+006



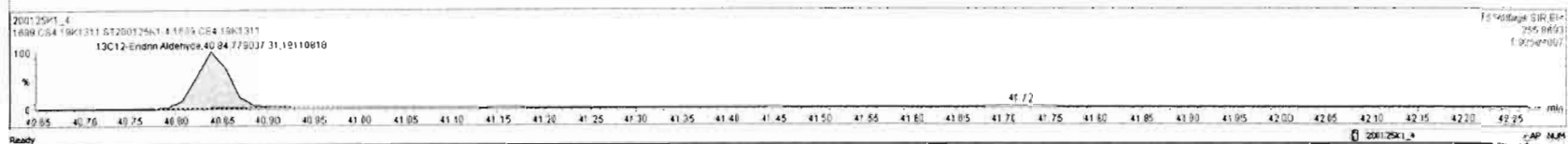
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
255.8693
1.925e+007



200125K1_4: ST 200125K1_4 1099 CS4 19K1311 - 1099 CS4 19K1311

#	Name	Resp	IS Resp	ISF	RA	IN	RRF	retVol	Pred RT	RT	RET	Pred RRT	Check RRT	Conc	%Rec	CL	EMPC
20	Dieldrin	1.21e5	2.26e5	40	1.58	NO	1.0934	1.000	37.30	37.31	1.001	1.000	NO	245	97.8	0.144	245
21	Endrin	7.46e5	1.42e6	49	1.54	NO	1.0566	1.000	38.69	38.71	1.000	1.000	NO	240	99.2	0.255	240
22	cis-Hexachlor	8.09e5	1.16e6	50	1.56	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	244	97.6	0.301	244
23	Endosulfan 1 (beta)	1.92e5	4.18e4	51	1.54	NO	1.1102	1.000	39.72	39.73	1.000	1.000	NO	207	87.9	0.787	207
24	2,4'-DDT	1.15e7	2.26e8	52	1.53	NO	1.0482	1.000	37.94	37.95	1.000	1.000	NO	243	97.0	0.236	243
25	2,4'-DDT	7.57e6	1.52e8	53	1.54	NO	1.0274	1.000	38.09	38.00	1.000	1.000	NO	242	97.0	0.364	242
26	4,4'-DDT	1.07e7	1.07e8	54	1.52	NO	1.1226	1.000	39.20	39.20	1.000	1.000	NO	241	96.4	0.246	241
27	4,4'-DDT	8.10e6	1.24e8	55	1.55	NO	1.1336	1.000	40.29	40.28	1.000	1.000	NO	243	97.0	0.387	243
28	Endosulfan Sulfate	2.73e5	5.44e4	56	1.54	NO	0.9871	1.000	41.44	41.47	1.001	1.000	NO	254	102	0.581	254
29	4,4'-Methoxychlor	8.46e6	1.37e7	57	5.99	NO	1.2668	1.000	43.33	43.34	1.000	1.000	NO	243	97.3	0.0522	243
30	Mirex	2.71e6	5.29e5	58	1.56	NO	1.0435	1.000	43.91	43.90	1.000	1.000	NO	245	98.1	0.108	245
31	Endrin Aldehyde	5.87e5	1.14e6	59	0.83	NO	1.0532	1.000	40.86	40.85	1.000	1.000	NO	245	98.0	0.445	245
32	Endrin Ketone	4.60e5	9.81e5	60	0.82	NO	0.9741	1.000	44.01	44.05	1.001	1.000	NO	246	98.3	0.657	246
33	13C4-Hexachlorobutadi	3.52e6	2.95e6	82	1.27	NO	0.7367	1.000	9.95	9.96	0.384	0.383	NO	471	94.2	0.0214	
34	13C6-Hexachlorobenz	1.98e6	2.95e6	82	1.28	NO	0.6741	1.000	22.66	22.64	0.871	0.872	NO	49.8	99.6	0.003	
35	13C8-Alpha-BHC	7.46e5	2.85e5	82	0.78	NO	0.2548	1.000	23.19	23.18	0.892	0.892	NO	49.5	99.1	0.106	
36	13C8-Lindene (gamma)	5.99e5	2.95e5	82	0.78	NO	0.2007	1.000	26.48	26.48	1.019	1.019	NO	50.5	101	0.134	
37	13C8-Beta-BHC	4.74e5	2.95e5	82	0.78	NO	0.1546	1.000	26.54	26.53	1.098	1.099	NO	51.9	104	0.174	



Dataset: Untitled

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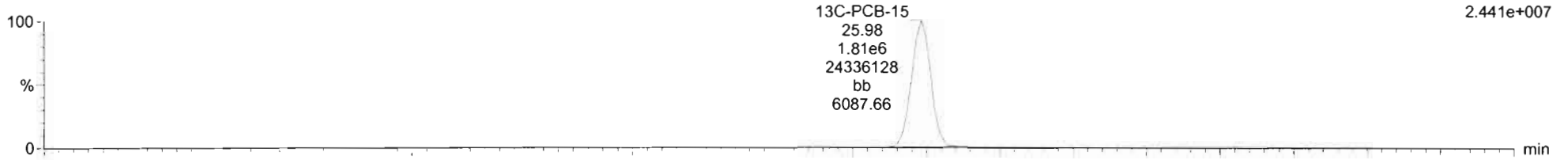
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

13C-PCB-15

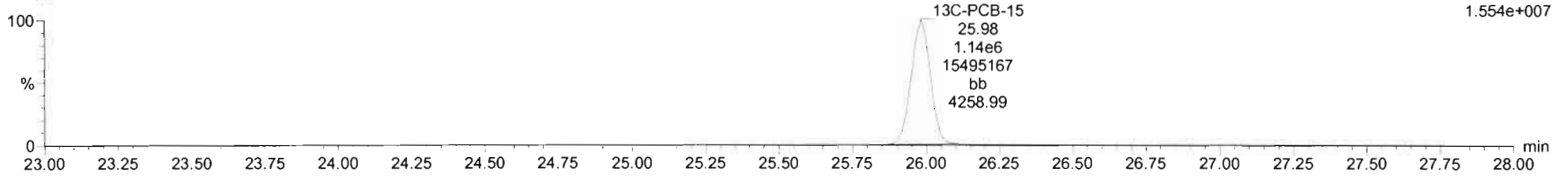
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F2:Voltage SIR,EI+
234.0406
2.441e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

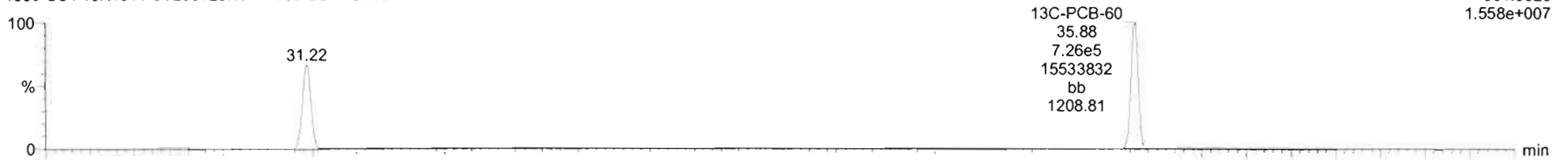
F2:Voltage SIR,EI+
236.0376
1.554e+007



13C-PCB-60

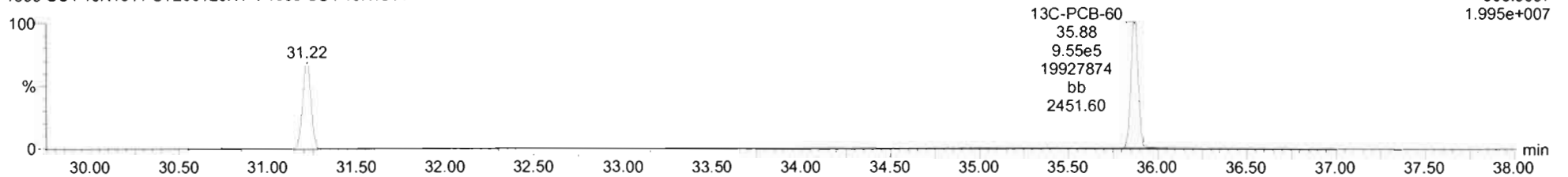
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

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

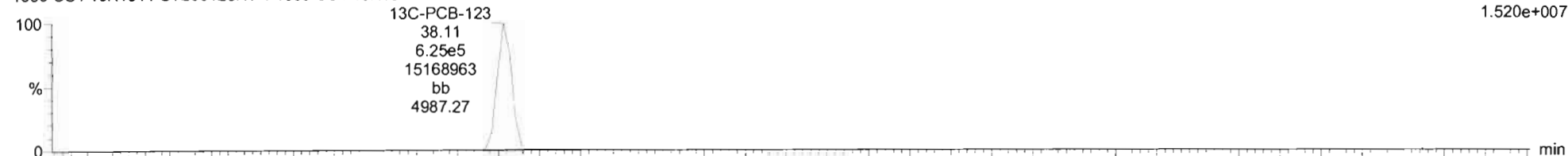
Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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13C-PCB-123

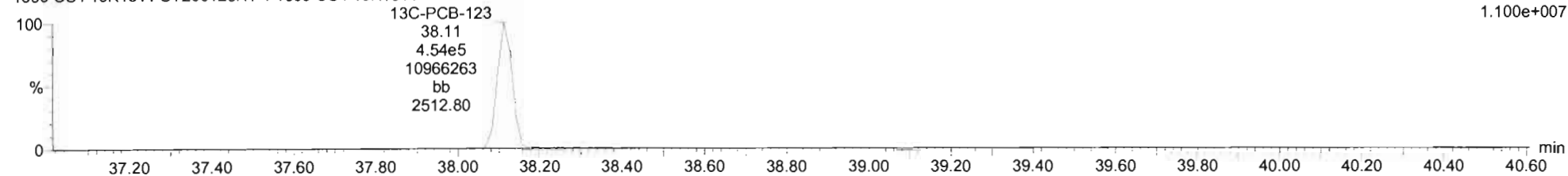
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

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

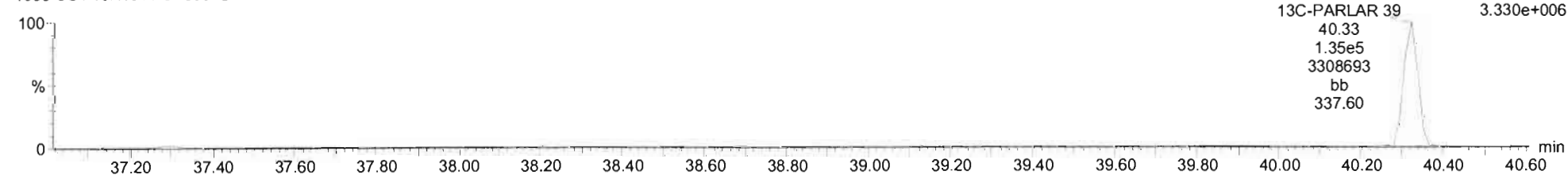
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

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



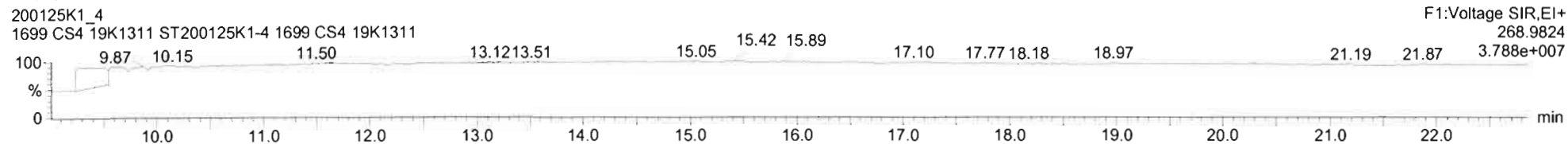
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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

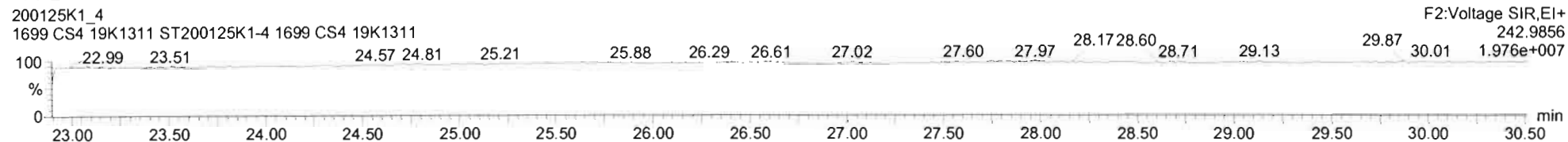
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Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

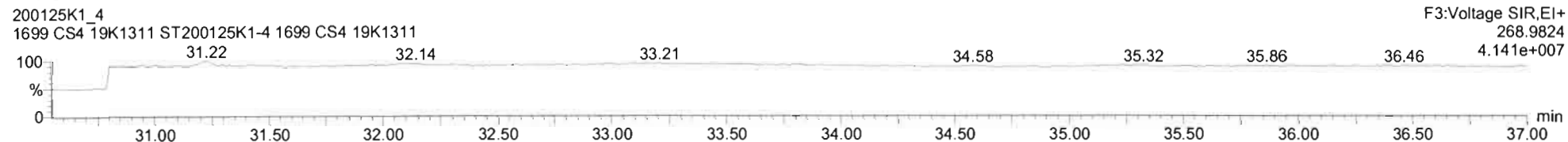
PFK1



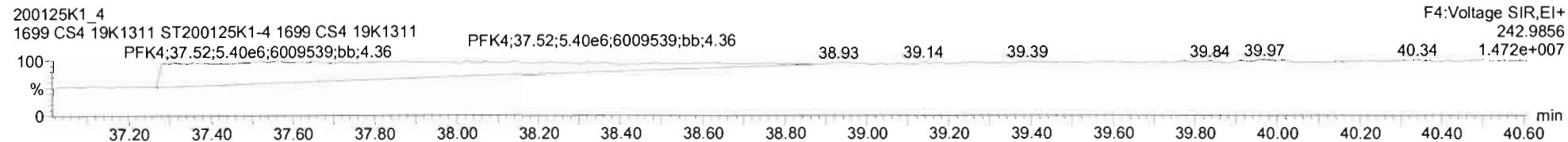
PFK2



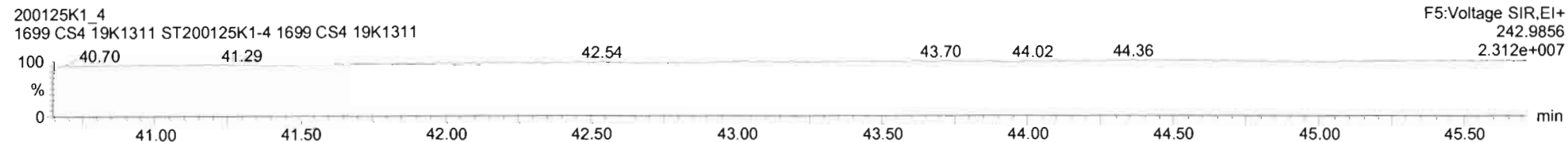
PFK3



PFK4



PFK5



Dataset: Untitled

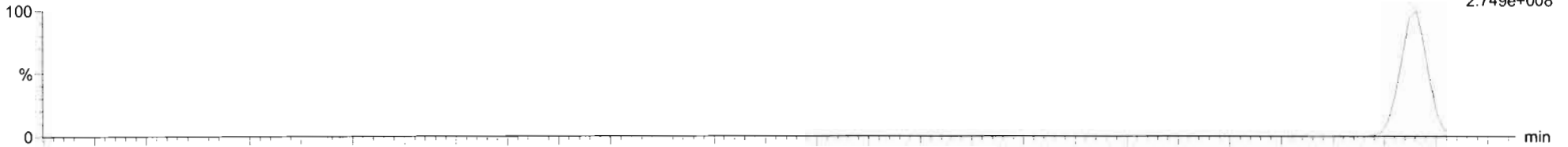
Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

Hexachlorobenzene

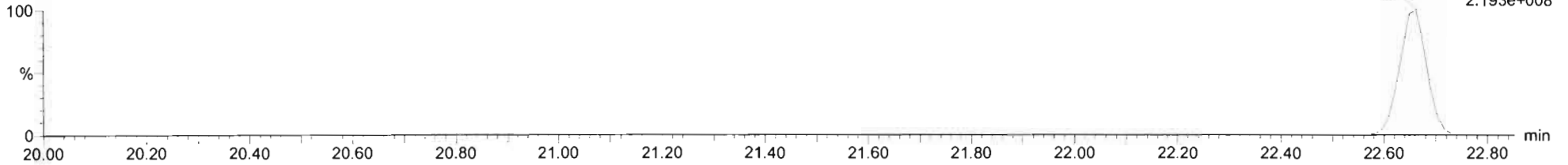
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F1:Voltage SIR,EI+
Hexachlorobenzene;22.66;1.65e7;274428704;bb;612573.34
283.8102
2.749e+008



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

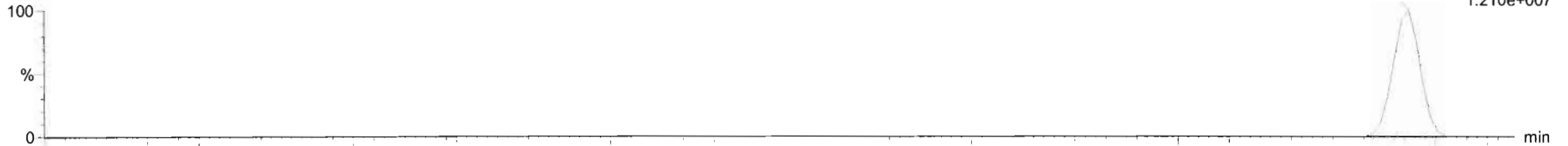
F1:Voltage SIR,EI+
Hexachlorobenzene;22.66;1.33e7;218954352;bb;399116.50
285.8072
2.193e+008



13C6-Hexachlorobenzene

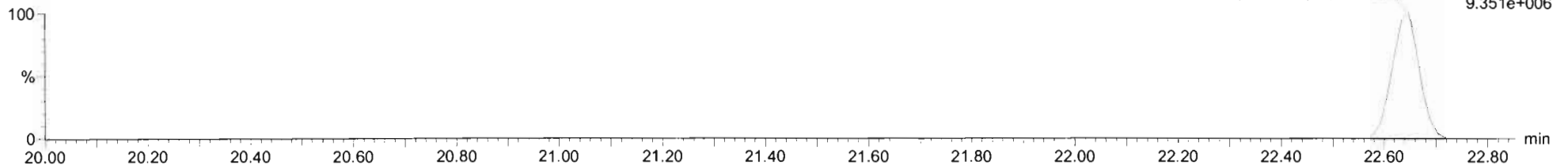
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F1:Voltage SIR,EI+
13C6-Hexachlorobenzene;22.65;7.29e5;12074153;bb;28932.96
289.8303
1.210e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F1:Voltage SIR,EI+
13C6-Hexachlorobenzene;22.65;5.64e5;9332988;bb;18429.91
291.8273
9.351e+006



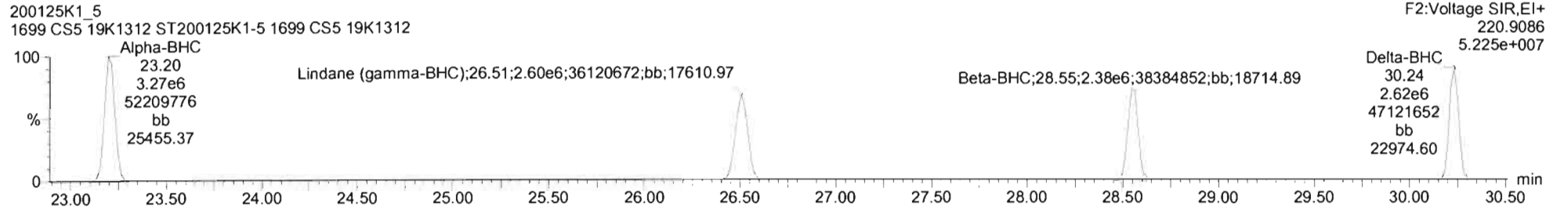
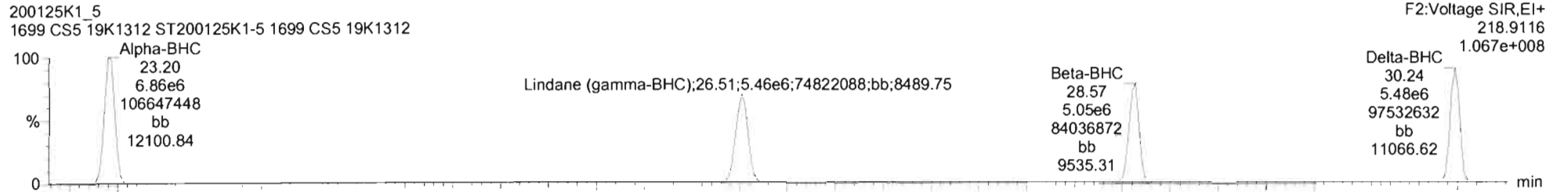
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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

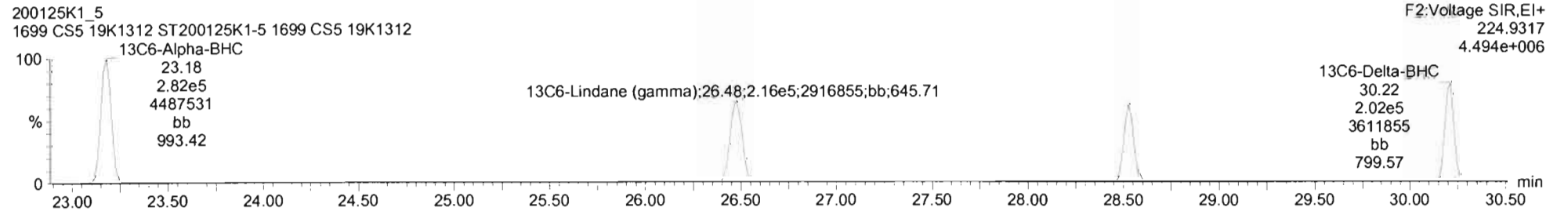
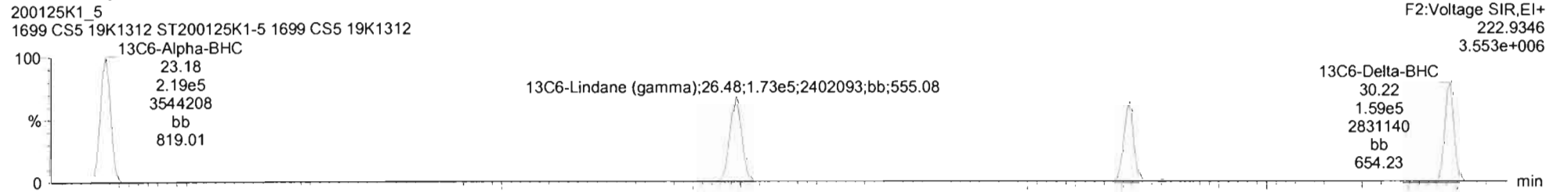
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_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

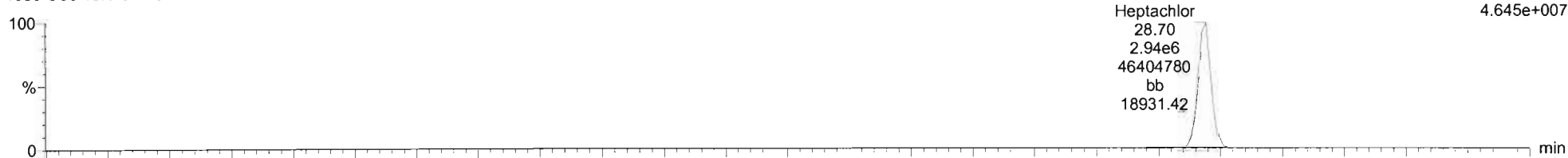
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Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

Heptachlor

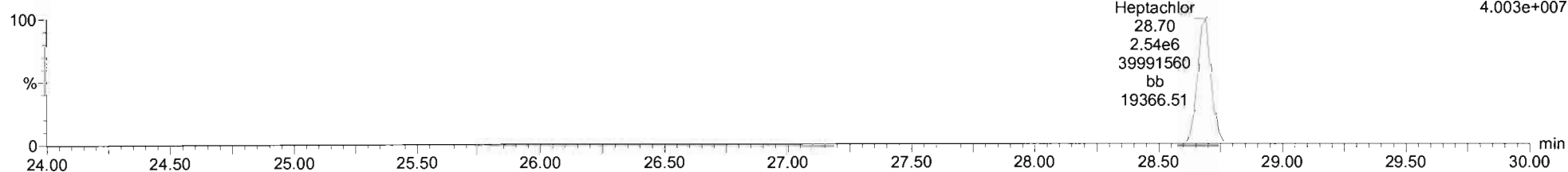
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F2:Voltage SIR,EI+
271.8102
4.645e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

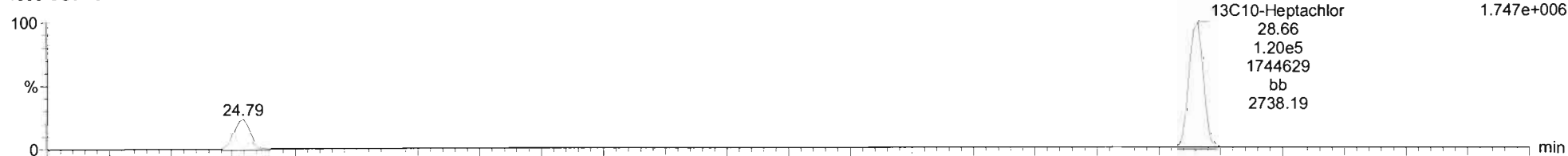
F2:Voltage SIR,EI+
273.8072
4.003e+007



13C10-Heptachlor

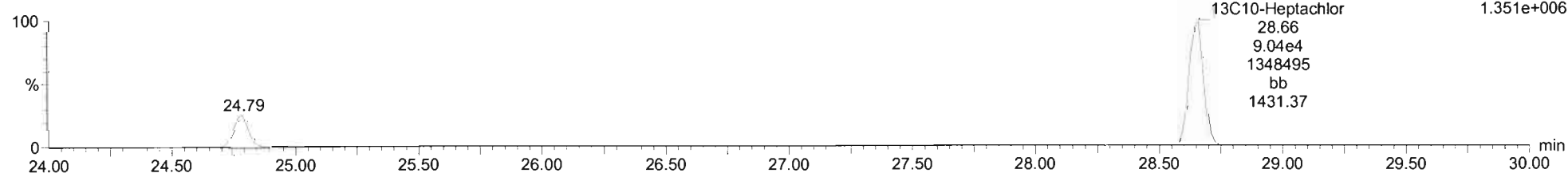
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

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



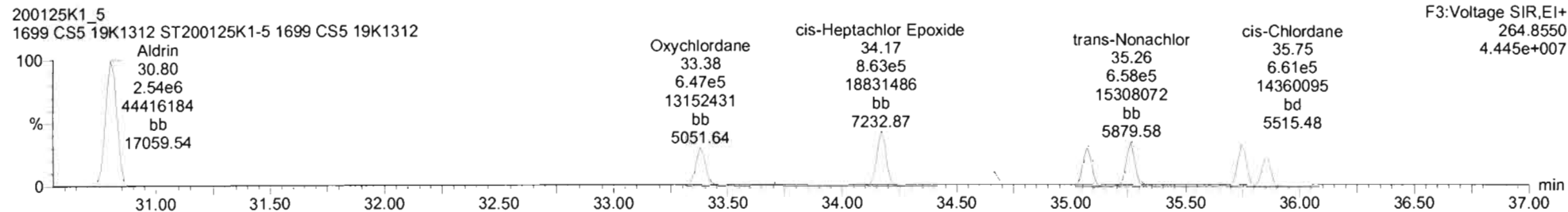
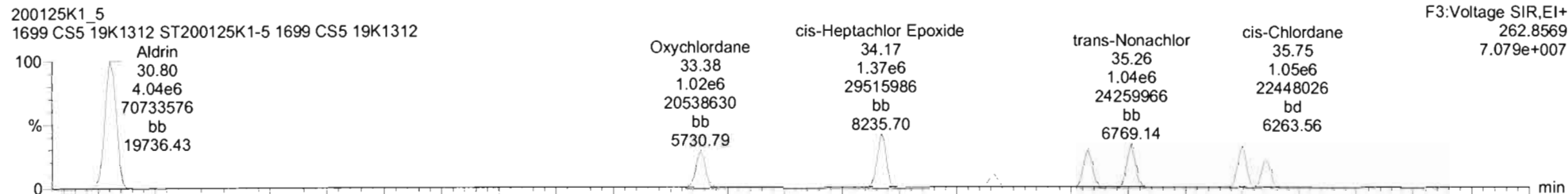
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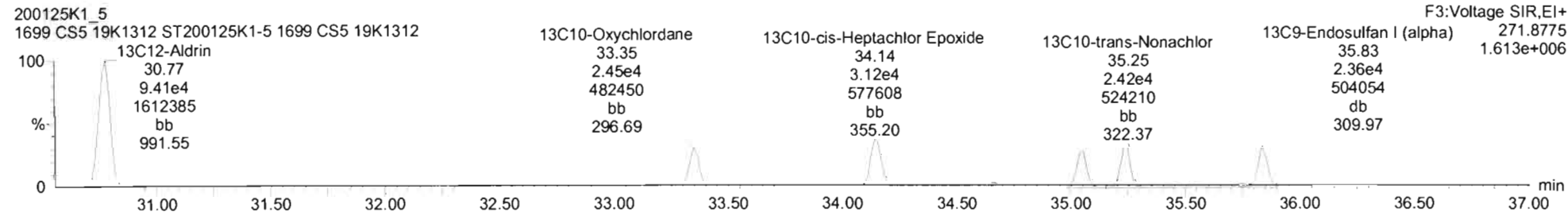
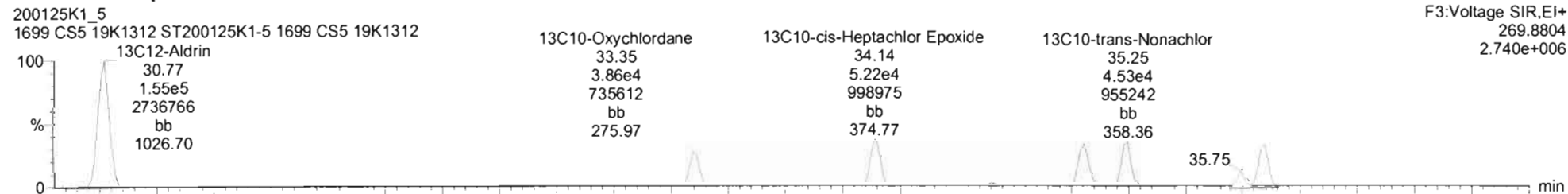
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

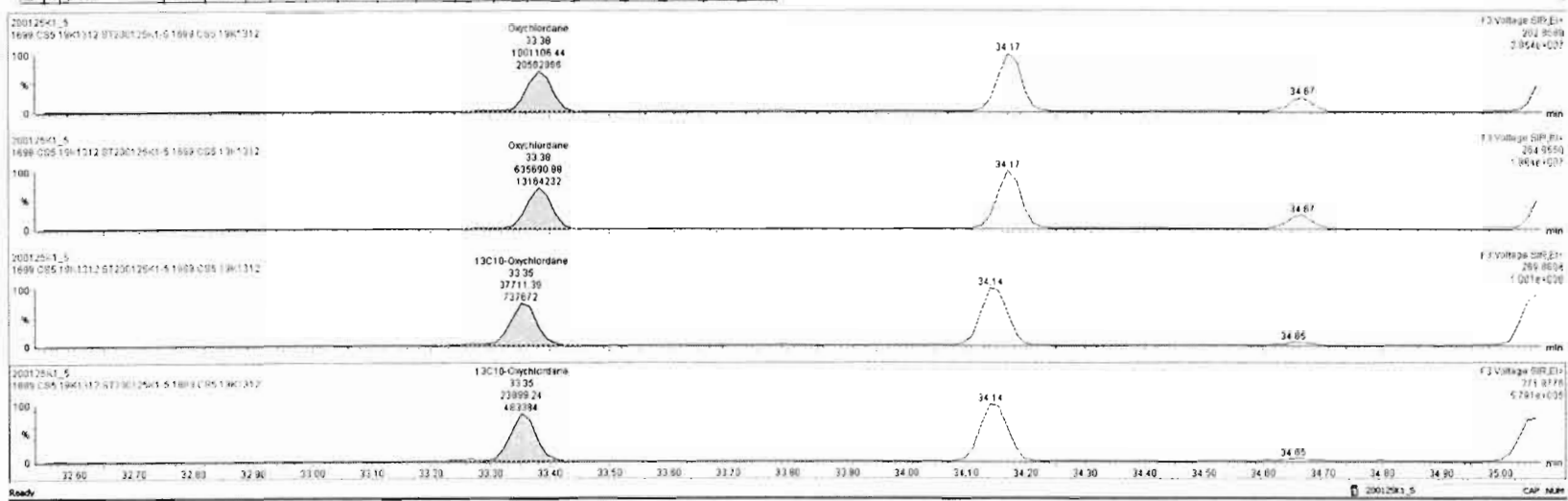
Aldrin-EI

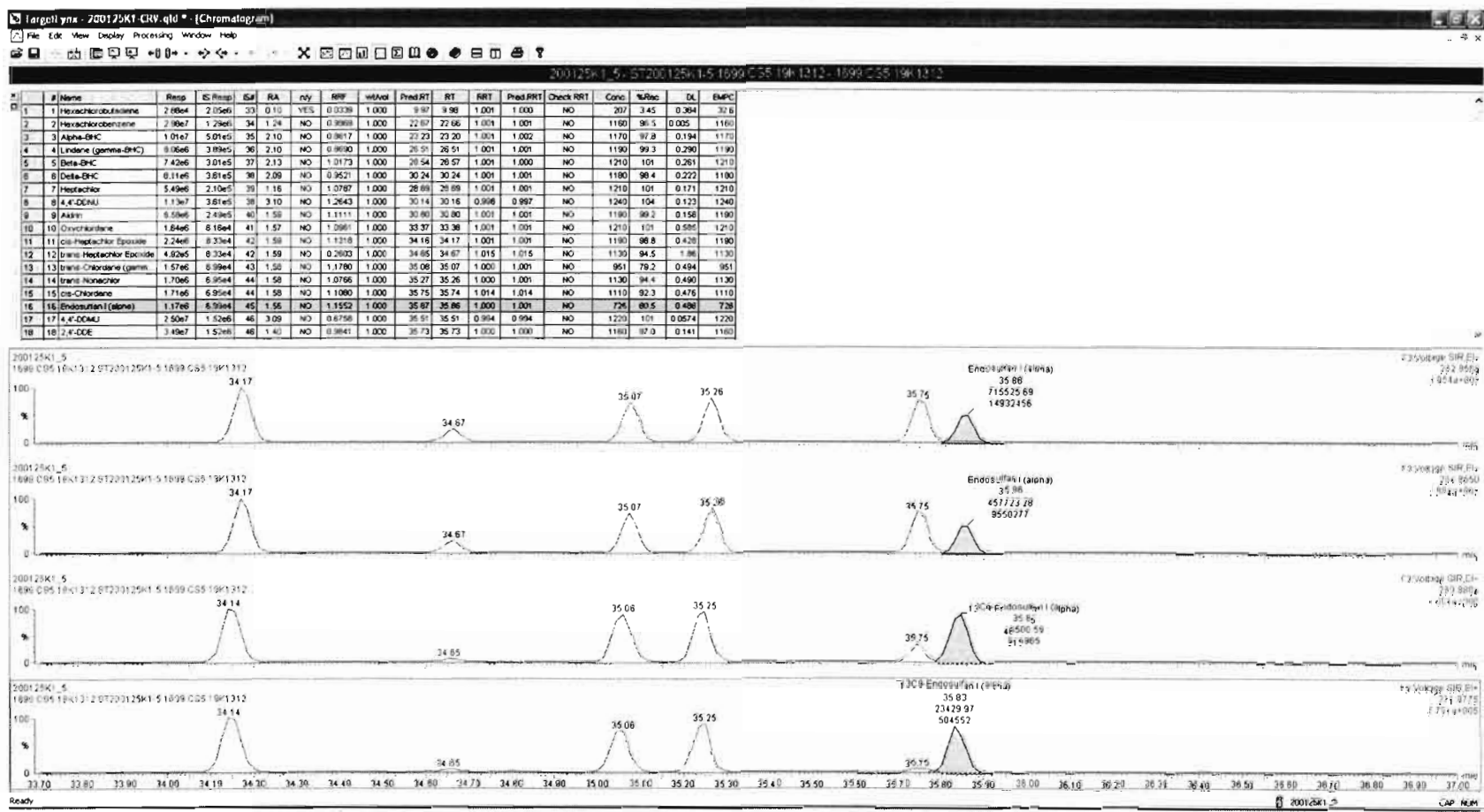


Aldrin-EI-isotopes



#	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	1173	97.8	0.194	1173
4	Lindane (gamma-DHC)	8.05e0	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	6.58e6	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	1.68e8	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	13a-Heptachlor Epoxide	2.24e5	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	4.82e5	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 (gamma)	1.57e0	6.99e4	43	1.08	NO	1.1780	1.000	35.00	35.07	1.000	1.000	NO	991	79.2	0.494	991
14	trans-Hexachlor	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	13a-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'-DDM1	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	87.8	0.141	1180





Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

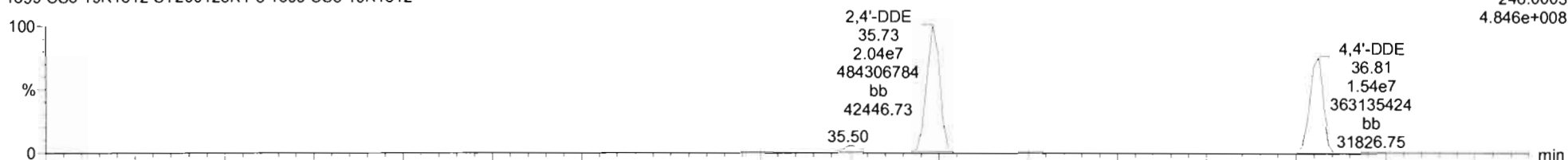
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

DDMU-DDE

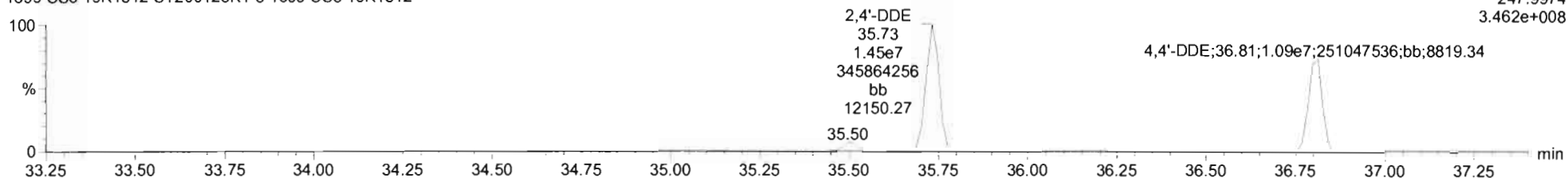
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F3:Voltage SIR,EI+
246.0003
4.846e+008



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

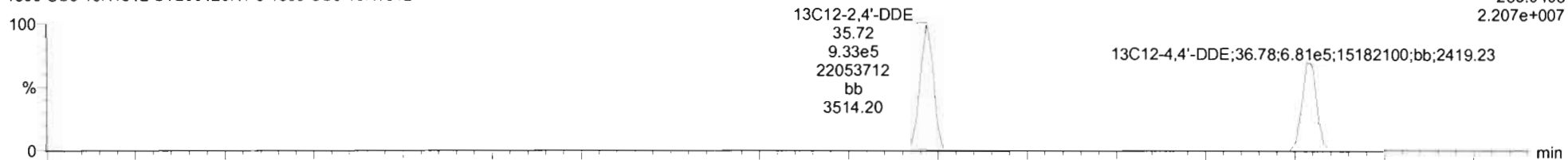
F3:Voltage SIR,EI+
247.9974
3.462e+008



DDE-isotopes

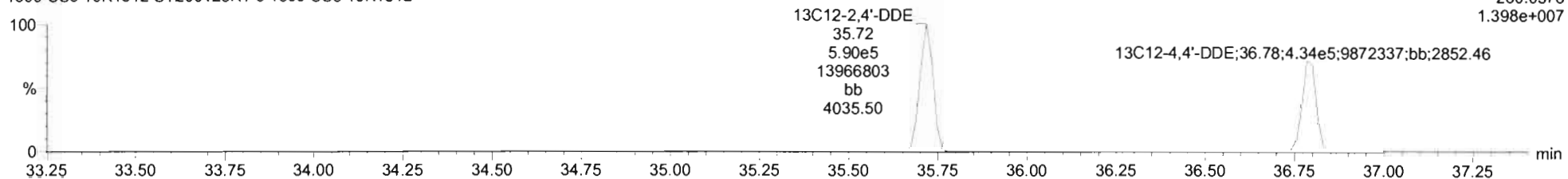
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F3:Voltage SIR,EI+
258.0406
2.207e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F3:Voltage SIR,EI+
260.0376
1.398e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

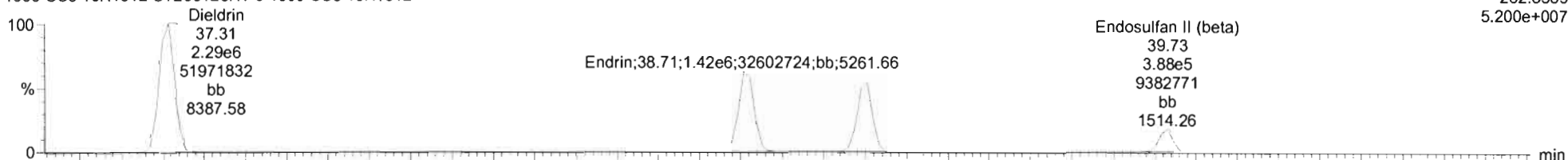
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

Dieldrin-EII

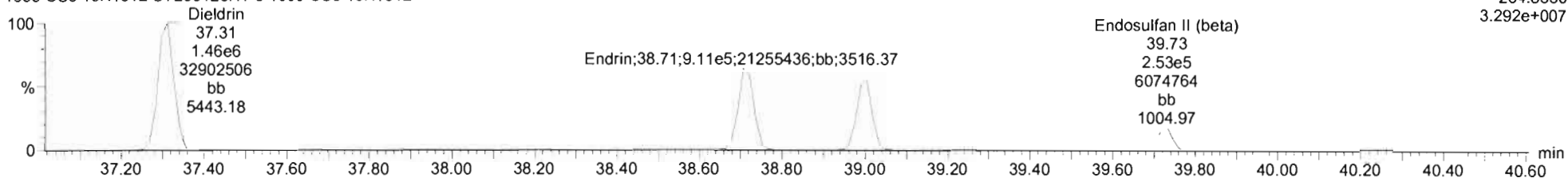
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F4:Voltage SIR,EI+
262.8569
5.200e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

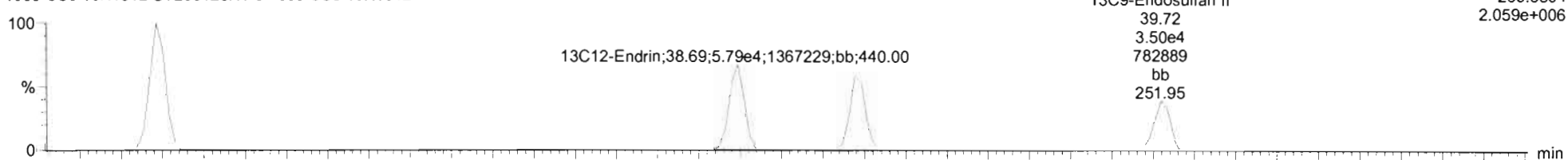
F4:Voltage SIR,EI+
264.8550
3.292e+007



Dieldrin-EII-isotopes

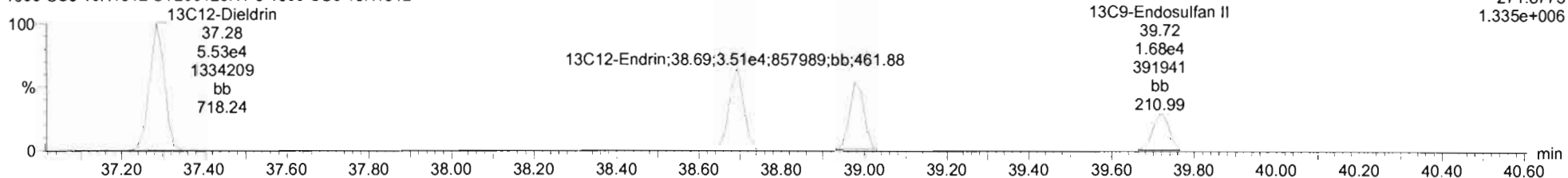
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F4:Voltage SIR,EI+
269.8804
2.059e+006

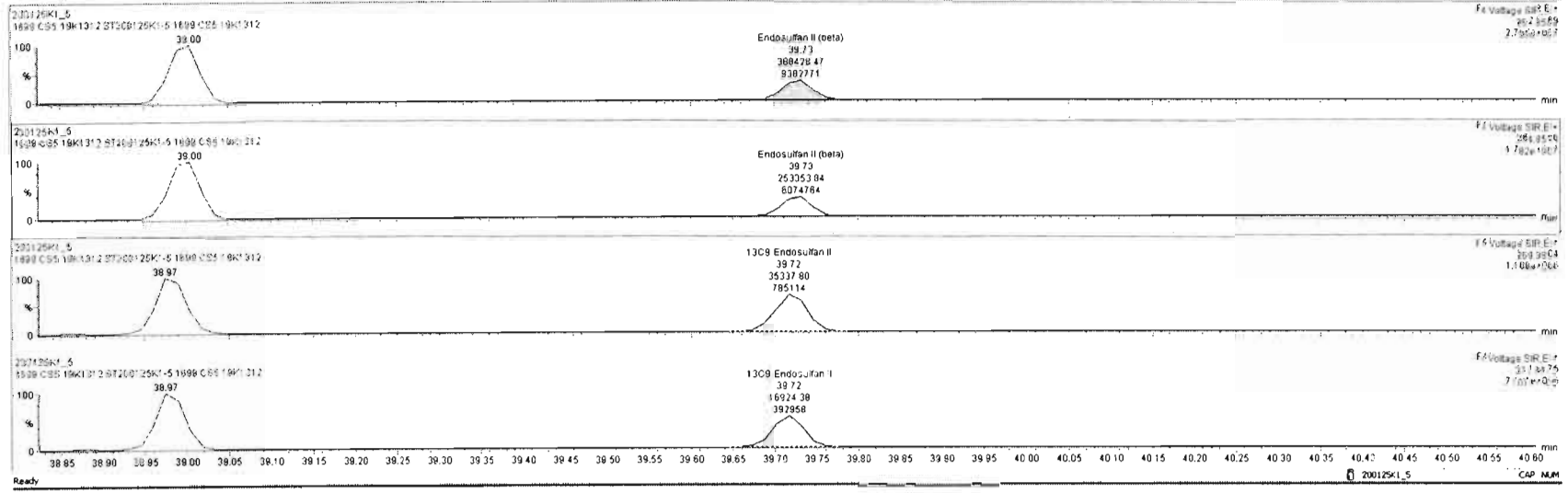


200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F4:Voltage SIR,EI+
271.8775
1.335e+006



#	Name	Resp	IS Resp	ISF	RA	NV	RF	wRet	ProdRT	RT	RRT	ProdRRT	CheckRRT	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	40	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	39.73	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	39.06	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	1304-Hexachlorobutadi...	2.05e6	1.92e6	62	1.27	NO	0.1267	1.000	9.95	9.97	0.984	0.993	NO	422	84.4	0.0310	
34	1305-Hexachlorobenz...	1.79e6	1.92e6	67	1.29	NO	0.6741	1.000	27.66	27.65	0.972	0.972	NO	50.0	100	0.036	
35	1306-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	1306-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	1306-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	



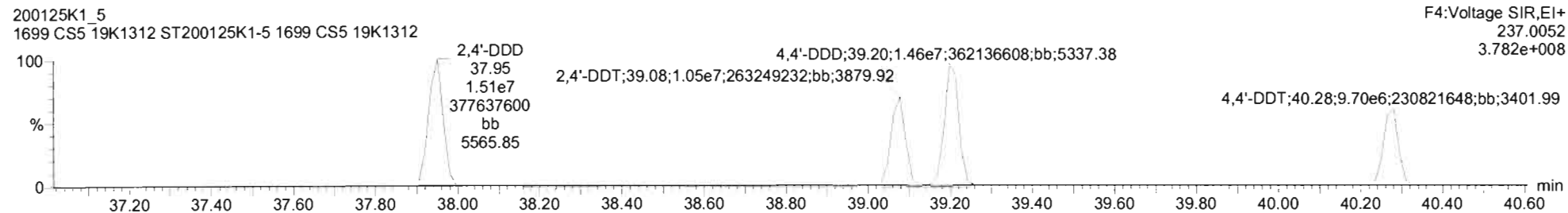
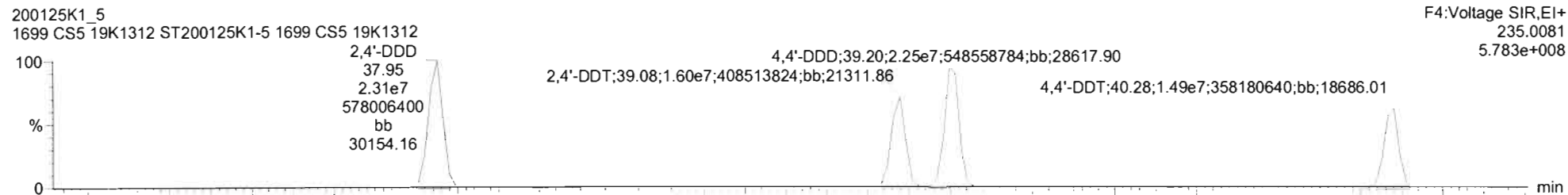
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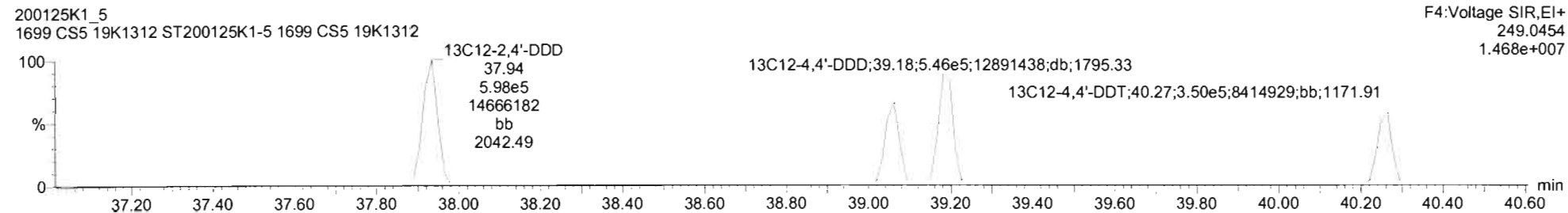
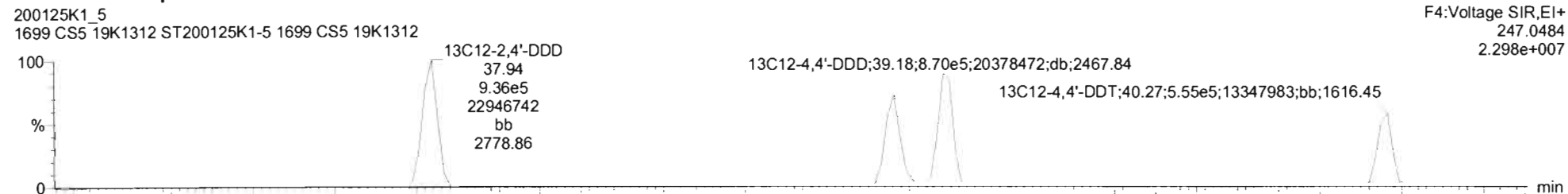
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Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

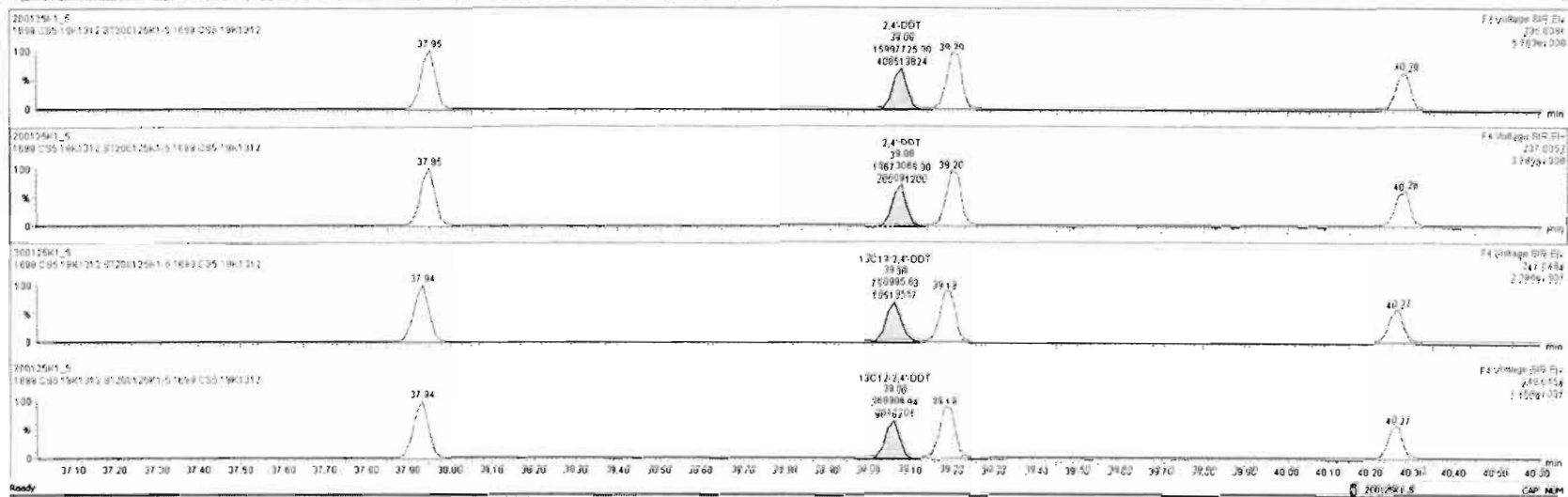
DDD-DDT



DDD-DDT-isotopes

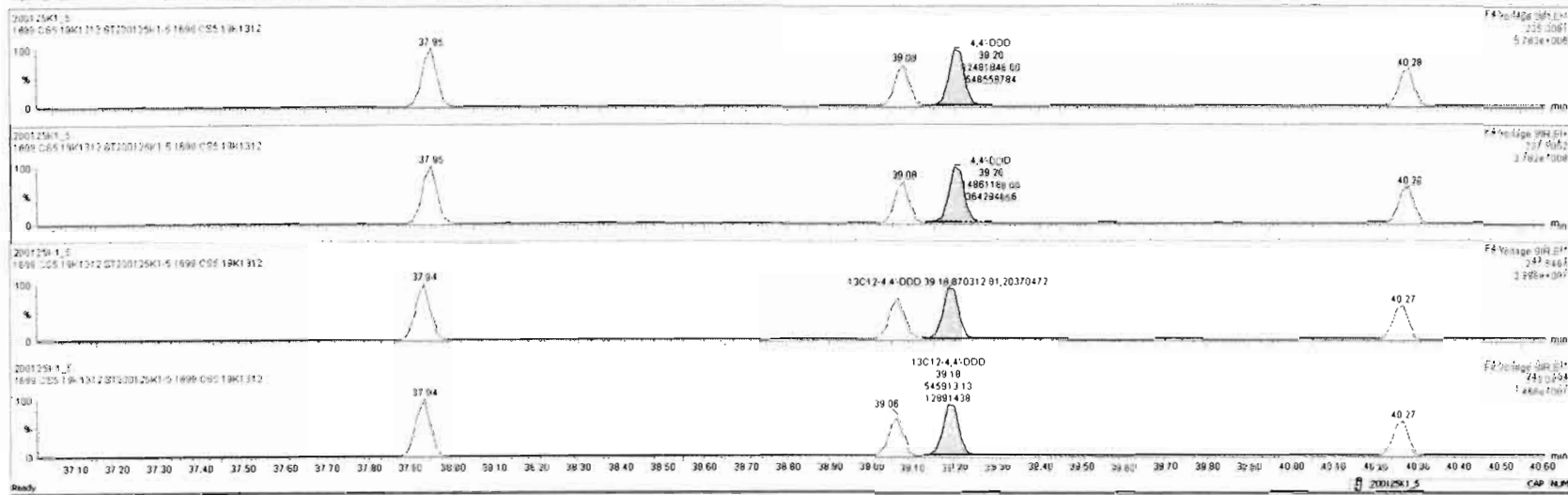


#	Name	Resp	IS Resp	IS#	RA	n/y	RR#	wtAval	Pres RT	RT	RR1	Pres RR1	Check RR1	Conc.	%Rec	DL	B4PC
20	Dealin	3.75e6	1.43e5	48	1.57	NO	1.0934	1.000	37.30	37.31	1.001	1.000	NO	1.200	99.9	0.418	1.200
21	Enon	7.34e5	9.30e4	49	1.58	NO	1.0756	1.000	38.65	38.71	1.000	1.000	NO	1.190	99.0	0.659	1.190
22	2,4-Dinitrophenol	1.39e6	7.98e4	50	1.55	NO	1.0772	1.000	38.99	38.00	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	95.3	48.1	1.19	95.3
24	2,4-DOO	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-DOO	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-Hexachlorocyclohexane	2.05e6	1.92e6	62	1.27	NO	0.1267	1.000	3.96	3.97	0.394	0.393	NO	42.2	94.4	0.0310	
34	1,3,5-Hexachlorobenzene	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	0.2540	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-Tribromobenzene	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	Area	RT	RT	Prod RT	Check RT	Conc.	Nutiso	CL	EMPC
20	20	Dioxin	3.75e6	1.43e5	48	1.57	NO	1.0204	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	cis-Hexachlor	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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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

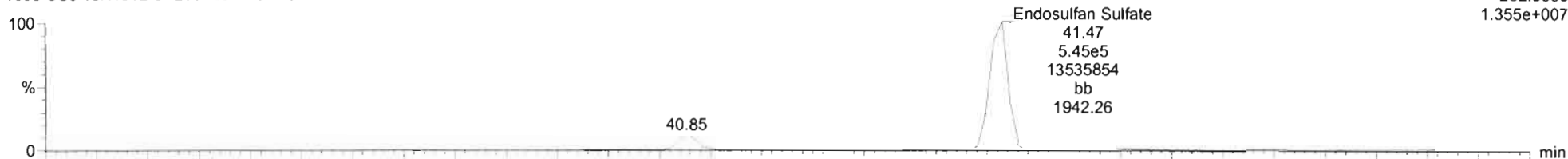
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

Endosulfan Sulfate

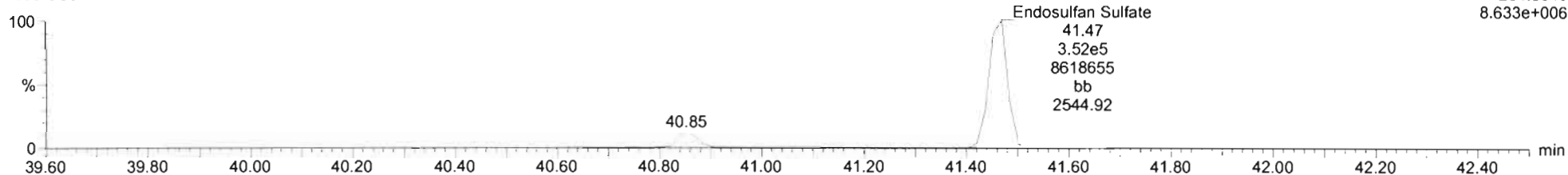
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
262.8569
1.355e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

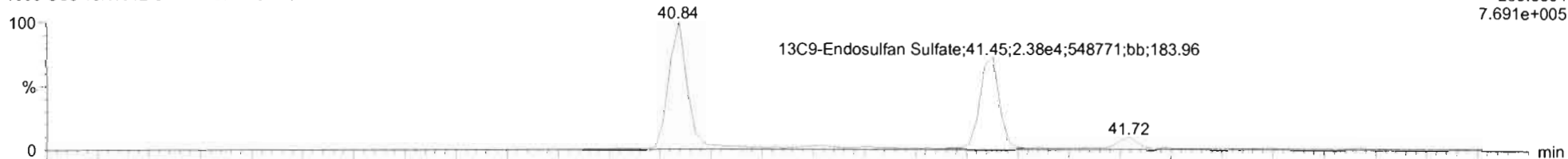
F5:Voltage SIR,EI+
264.8540
8.633e+006



13C9-Endosulfan Sulfate

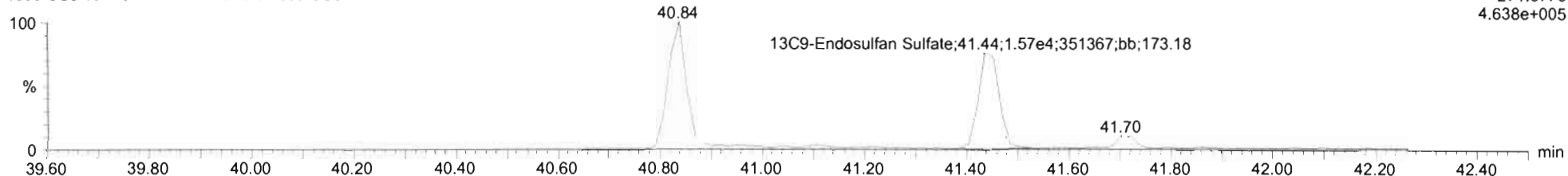
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

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

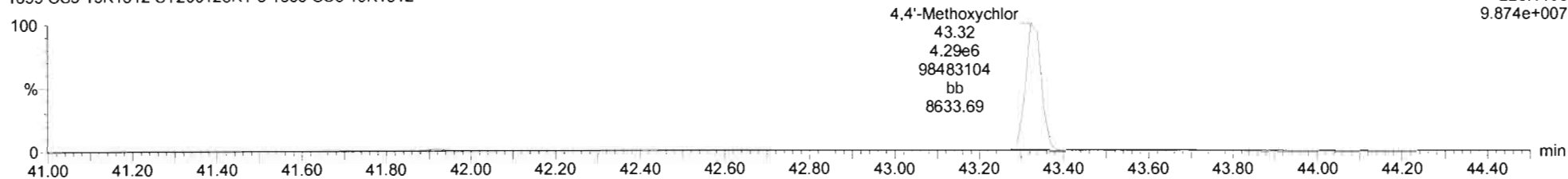
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
227.1072
5.902e+008



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

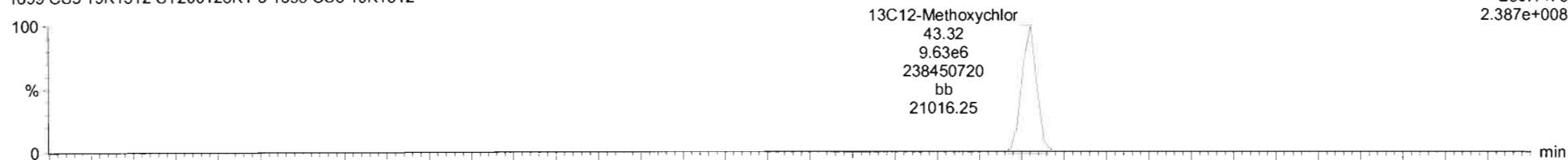
F5:Voltage SIR,EI+
228.1106
9.874e+007



13C12-Methoxychlor

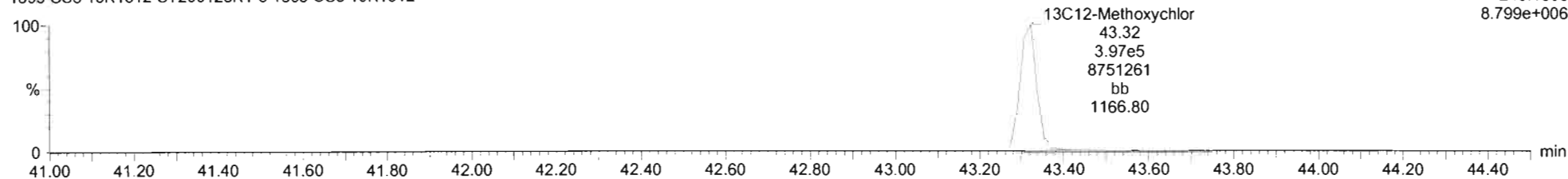
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

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

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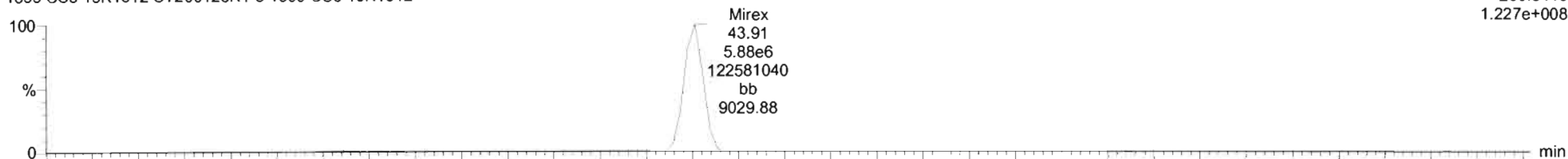
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Mirex

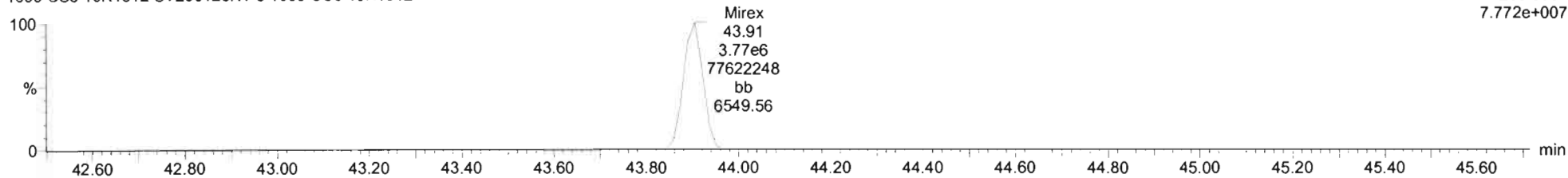
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
236.8413
1.227e+008



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

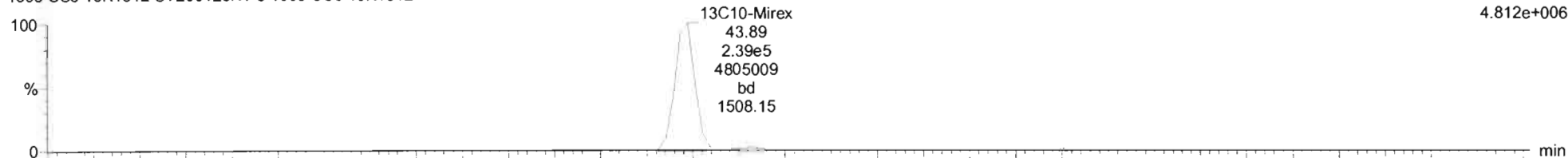
F5:Voltage SIR,EI+
238.8384
7.772e+007



13C10-Mirex

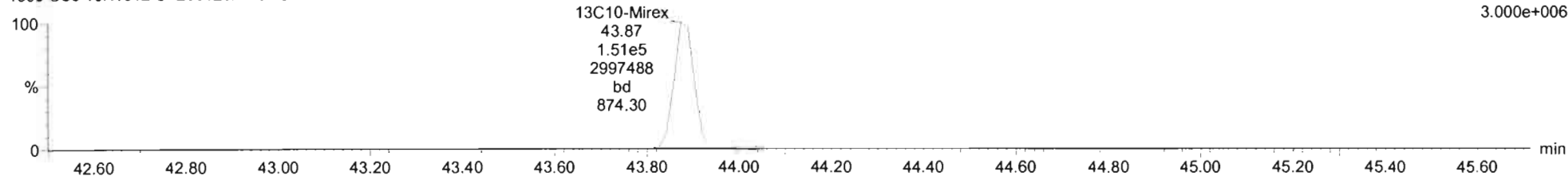
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

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

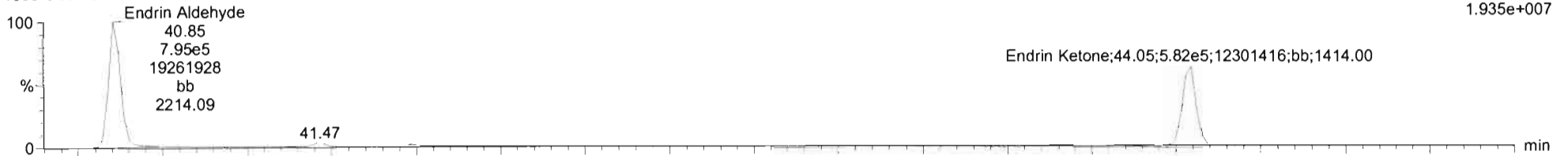
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EA-EK

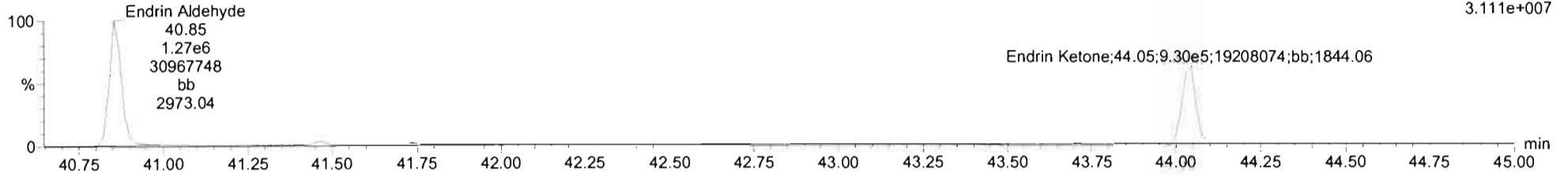
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
247.8521
1.935e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

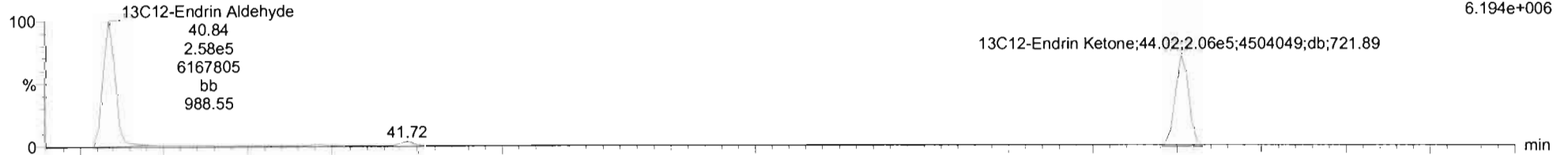
F5:Voltage SIR,EI+
249.8491
3.111e+007



EA-EK-isotopes

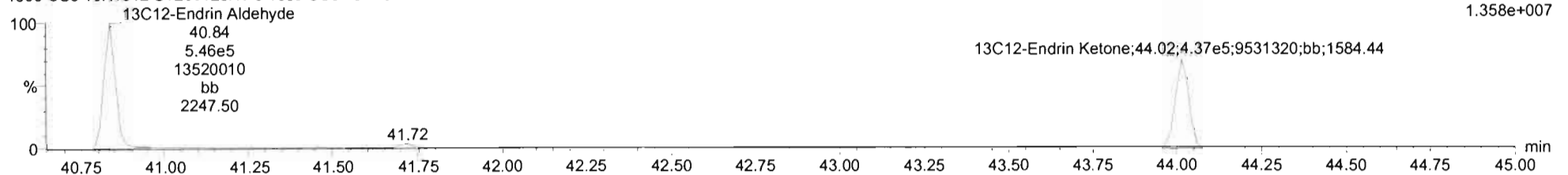
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

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

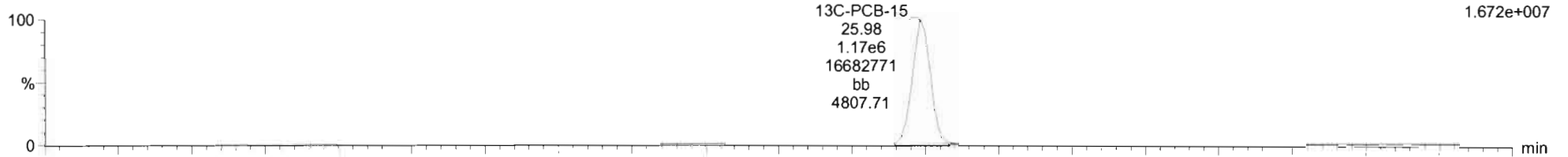
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13C-PCB-15

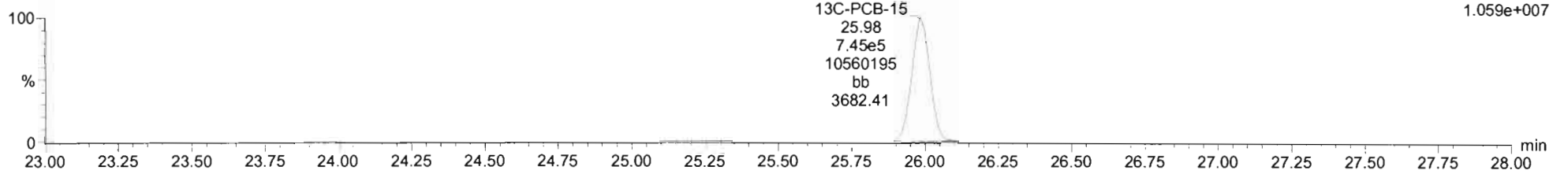
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F2:Voltage SIR,EI+
234.0406
1.672e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

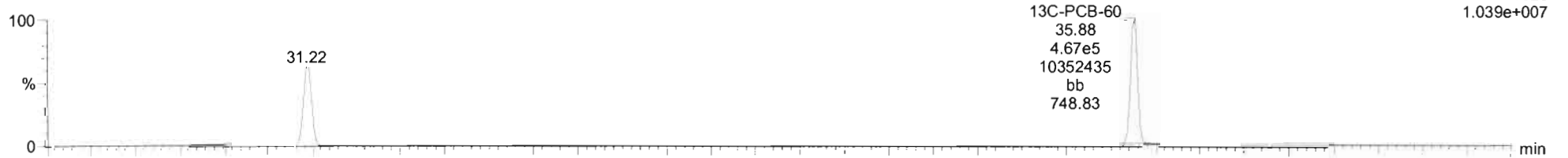
F2:Voltage SIR,EI+
236.0376
1.059e+007



13C-PCB-60

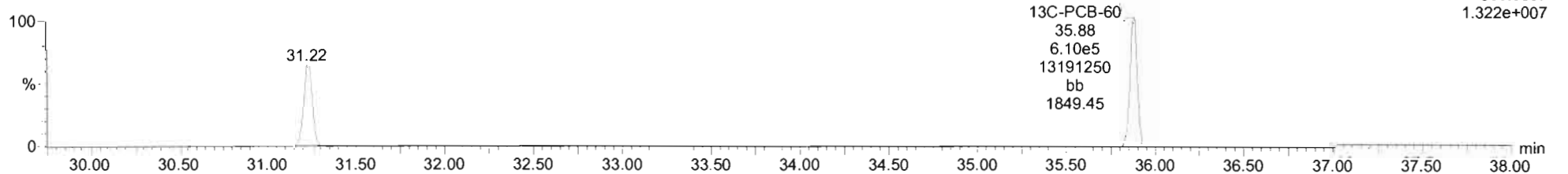
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

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

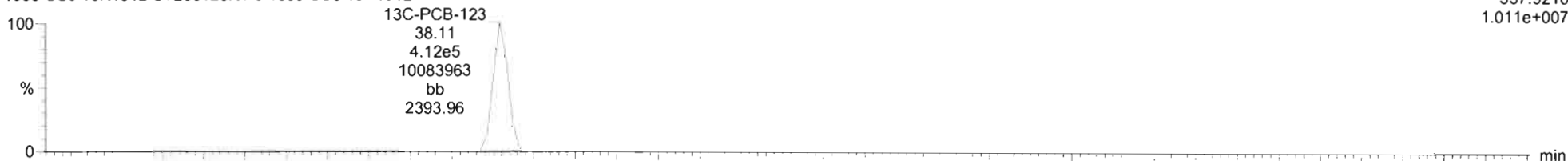
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13C-PCB-123

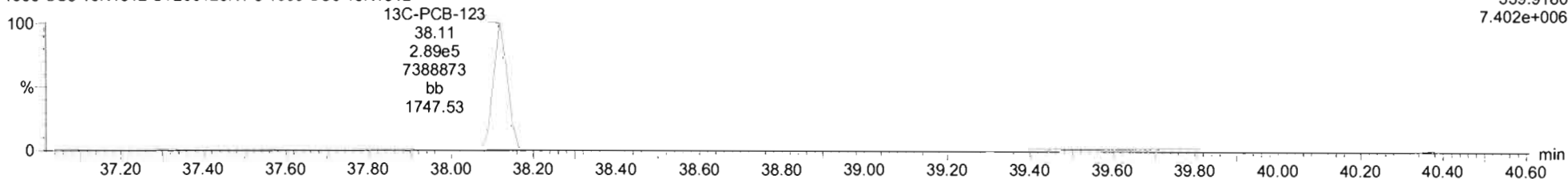
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F4:Voltage SIR,EI+
337.9210
1.011e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

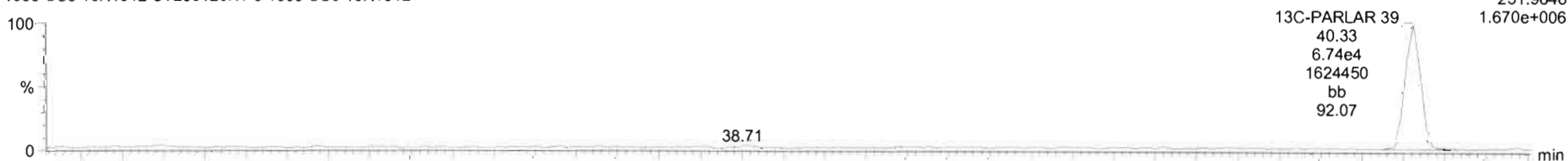
F4:Voltage SIR,EI+
339.9180
7.402e+006



13C-PARLAR 39

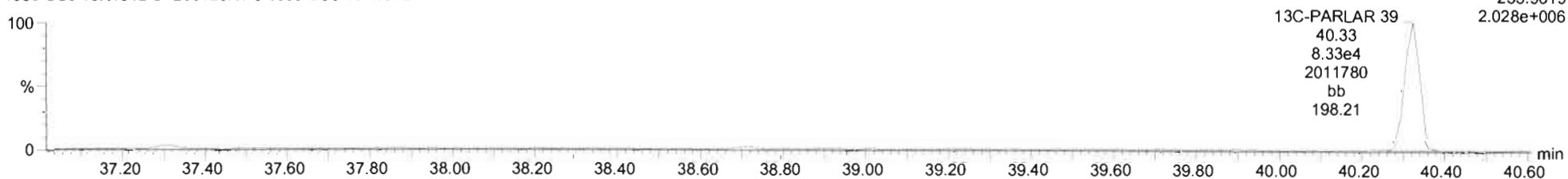
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

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

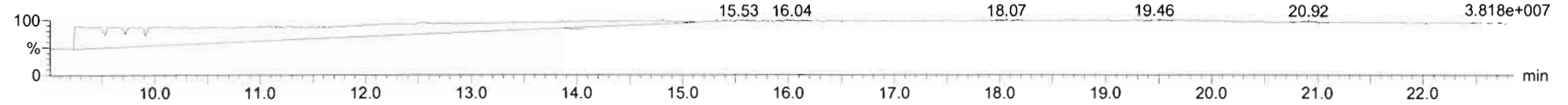
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PFK1

200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

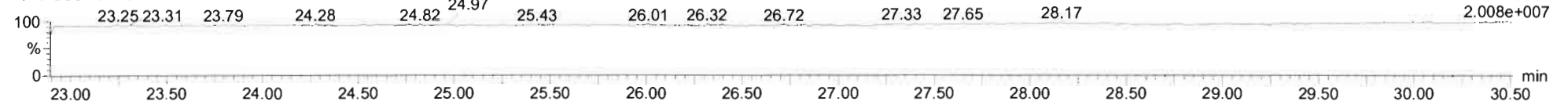
F1:Voltage SIR,EI+
268.9824
3.818e+007



PFK2

200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

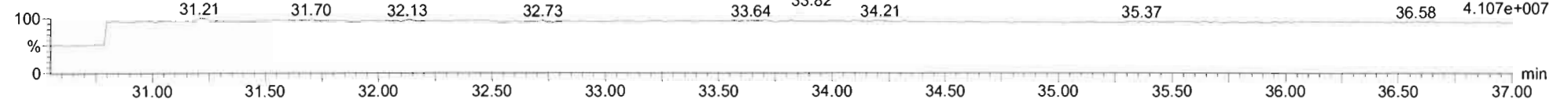
F2:Voltage SIR,EI+
242.9856
2.008e+007



PFK3

200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

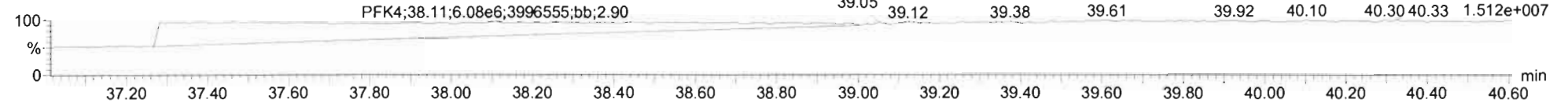
F3:Voltage SIR,EI+
268.9824
4.107e+007



PFK4

200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

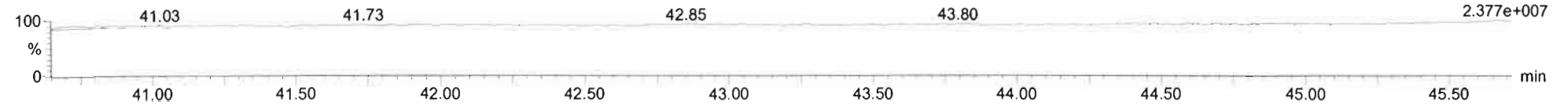
F4:Voltage SIR,EI+
242.9856
1.512e+007



PFK5

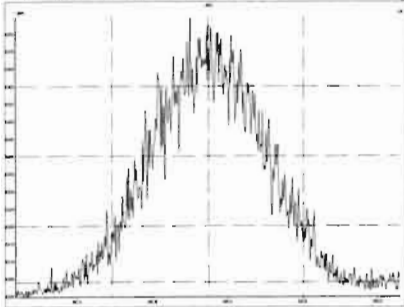
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
242.9856
2.377e+007

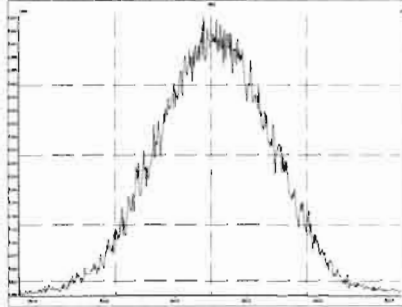


Printed: Sunday, January 26, 2020 05:38:39 Pacific Standard Time

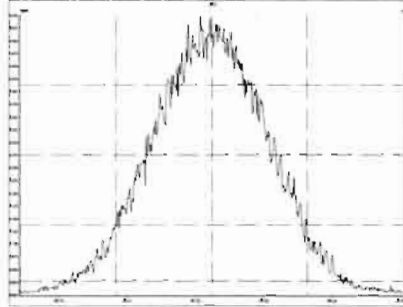
M 254.9856 R 7520



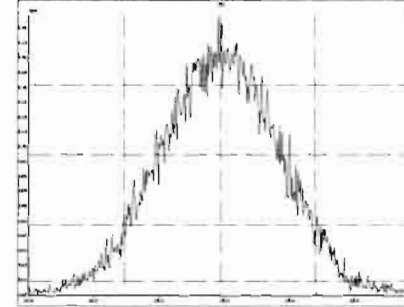
M 268.9824 R 7309



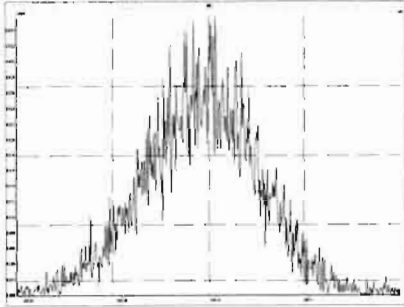
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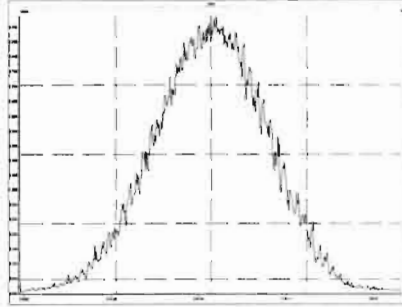
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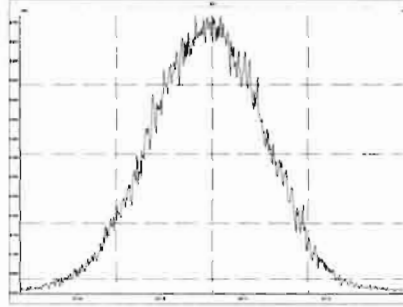
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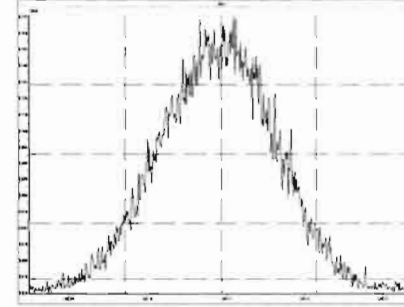
M 218.9856 R 7453



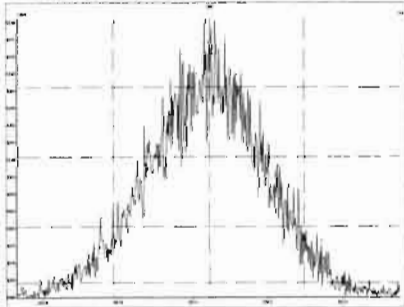
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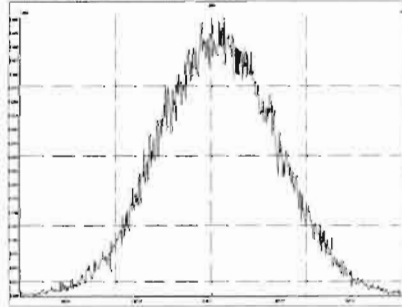
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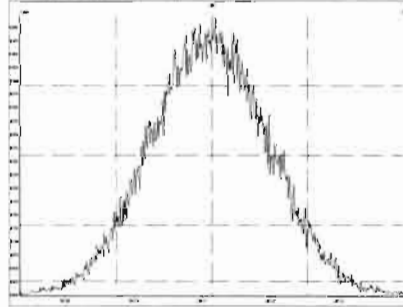
M 254.9856 R 7727



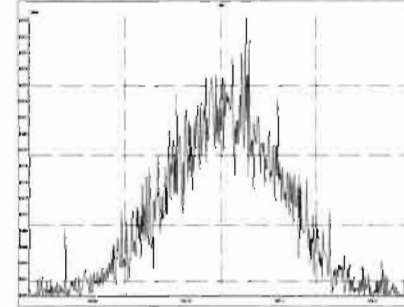
M 268.9824 R 7082



M 280.9824 R 7145

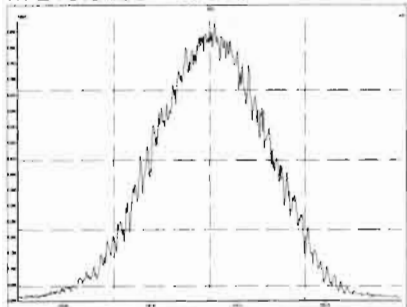


M 204.9888 R 8512

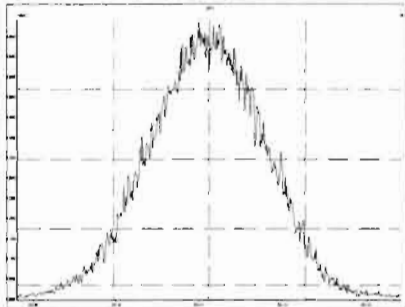


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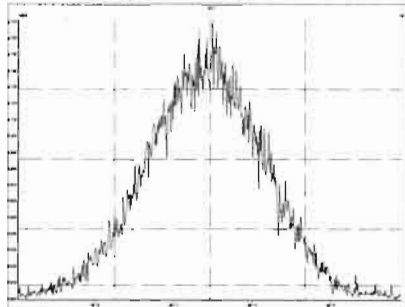
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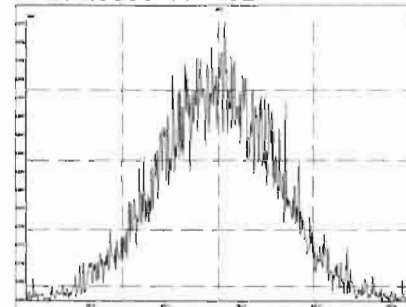
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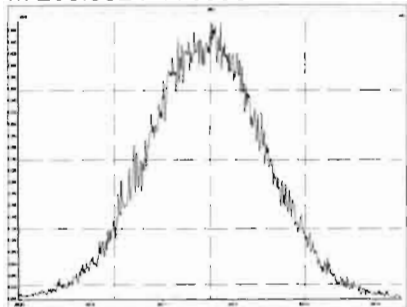
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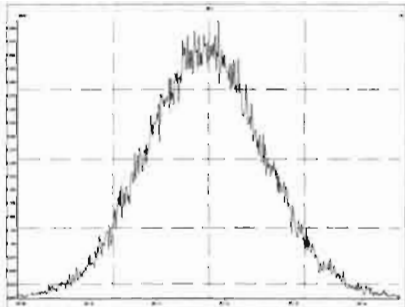
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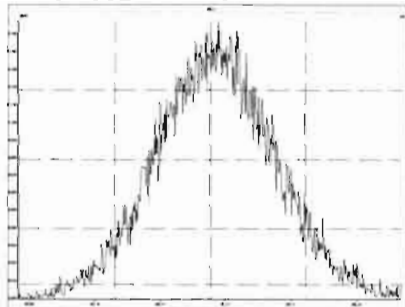
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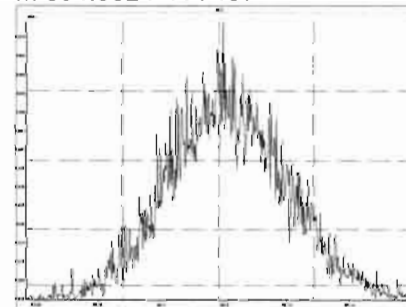
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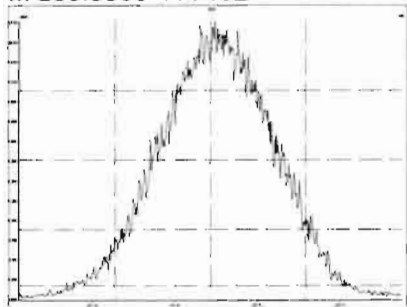
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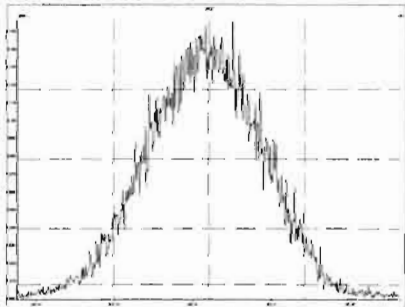
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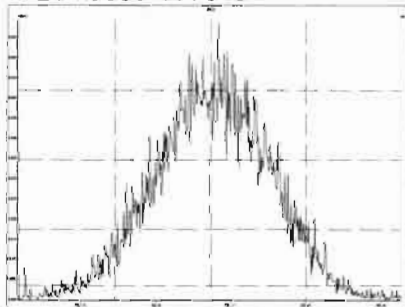
M 230.9856 R 7102



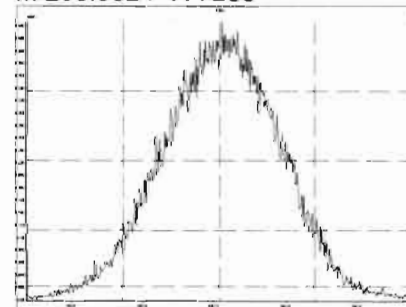
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M 254.9856 R 7518

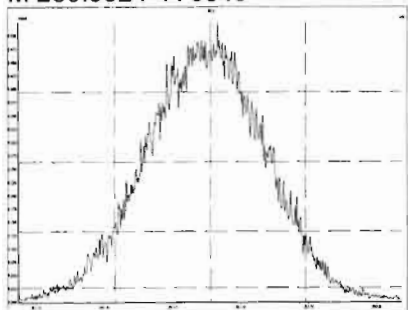


M 268.9824 R 7288

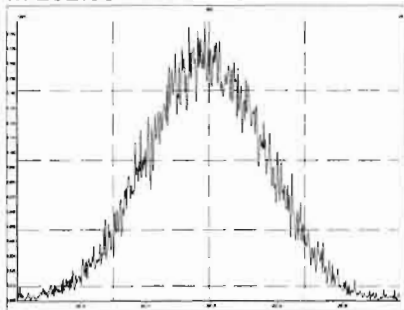


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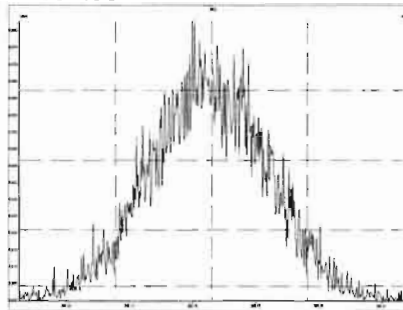
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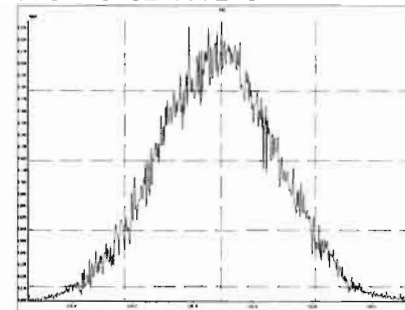
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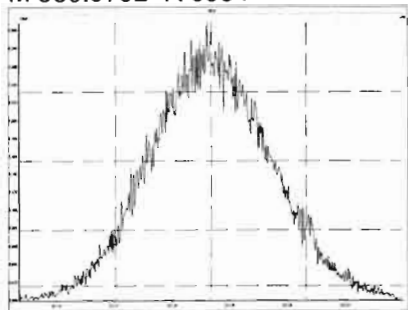
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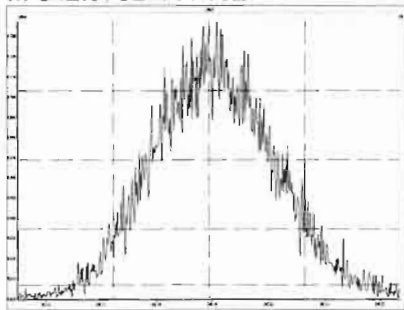
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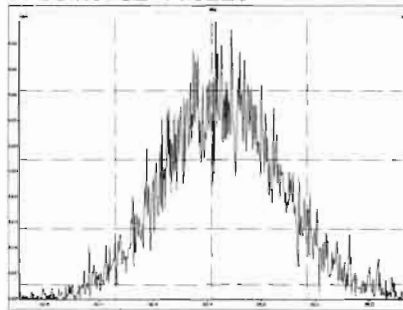
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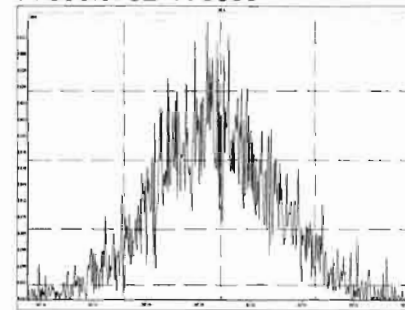
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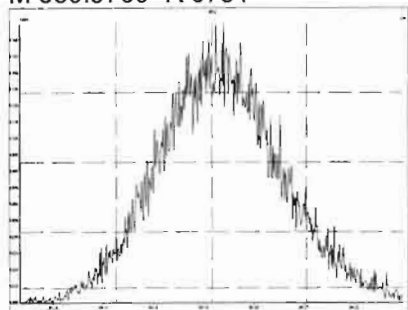
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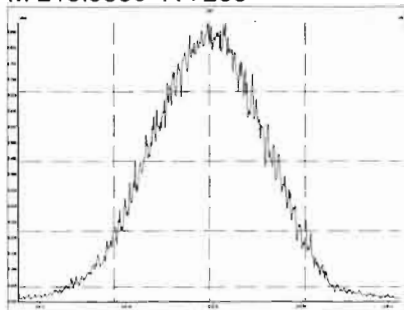
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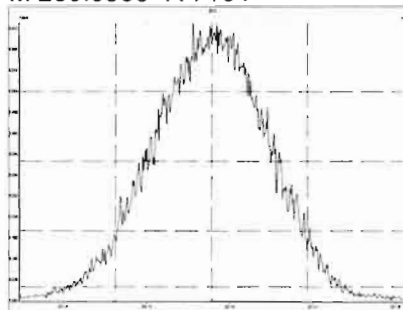
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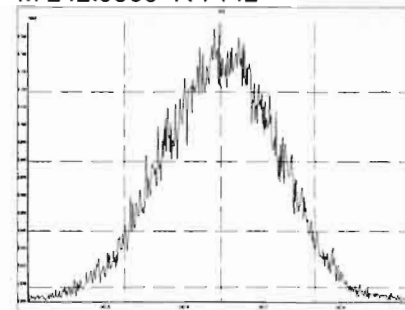
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M 230.9856 R 7164

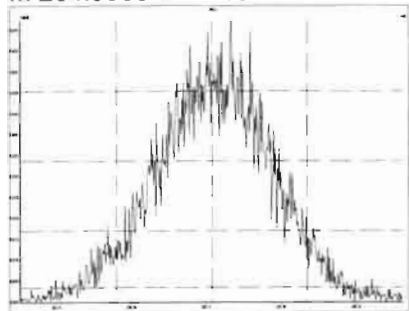


M 242.9856 R 7142

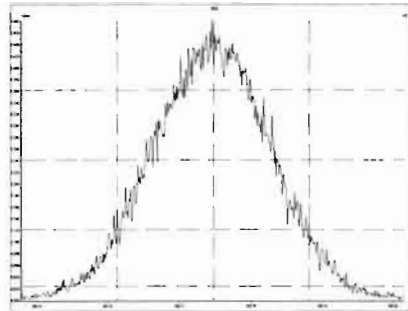


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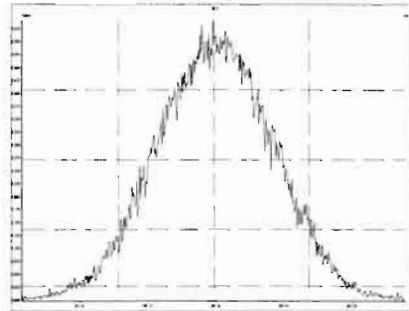
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M 268.9824 R 7072



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	

Vista Analytical Laboratory

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

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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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

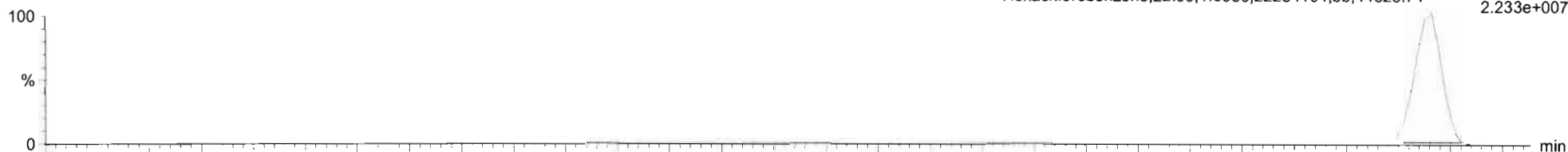
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

Hexachlorobenzene

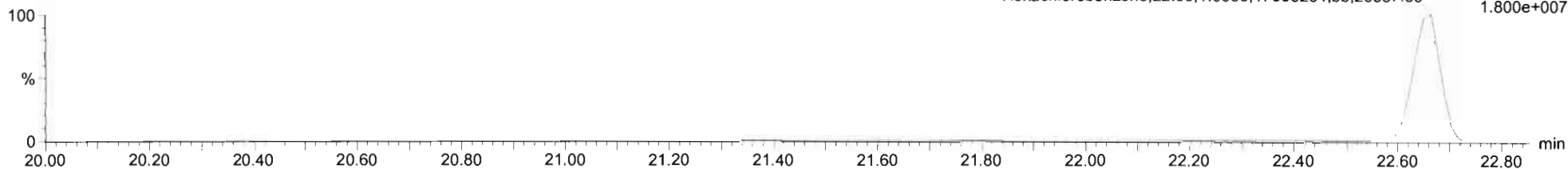
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

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

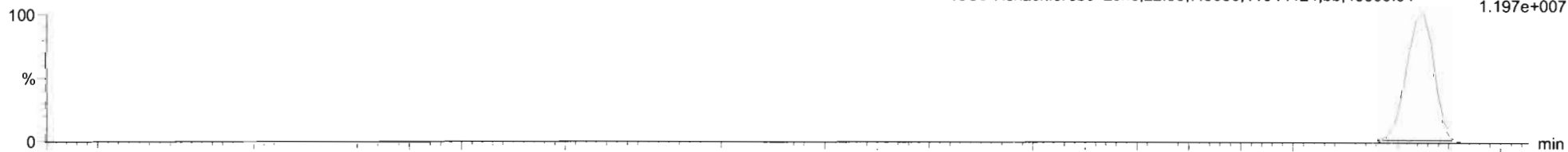
F1:Voltage SIR,EI+
Hexachlorobenzene;22.66;1.09e6;17965284;bb;29587.69
285.8072
1.800e+007



13C6-Hexachlorobenzene

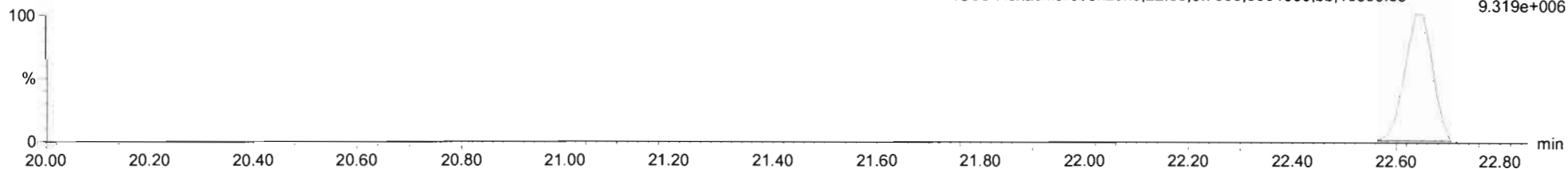
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

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



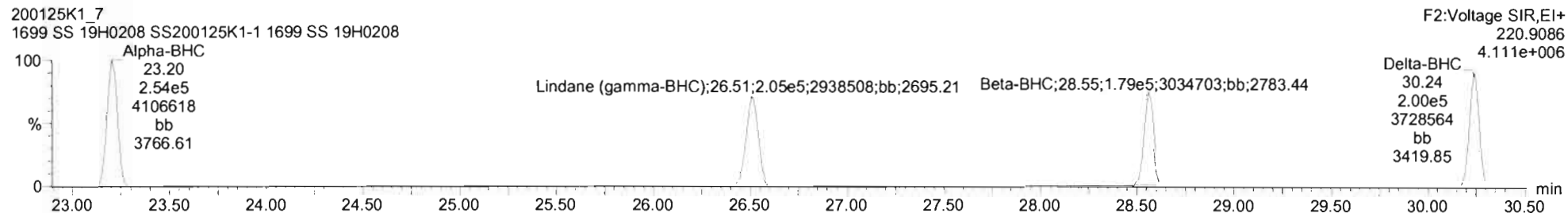
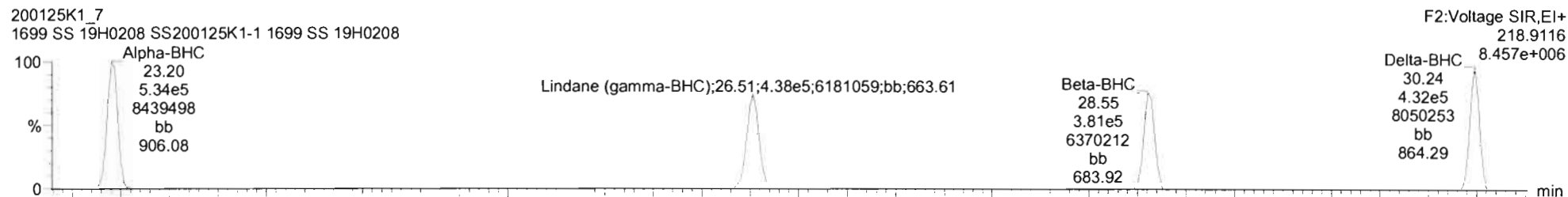
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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

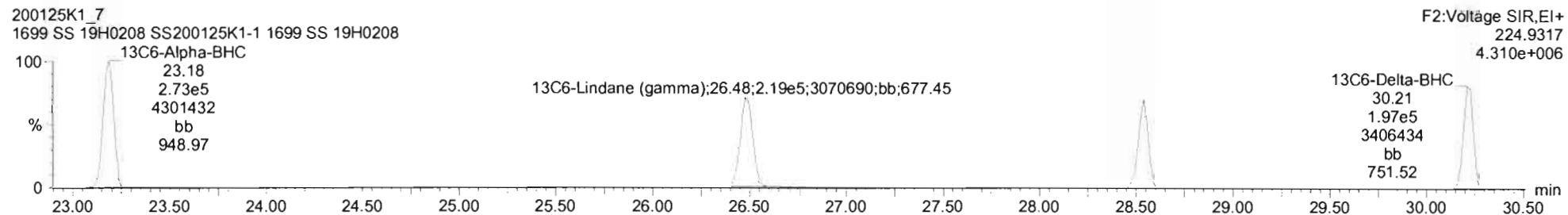
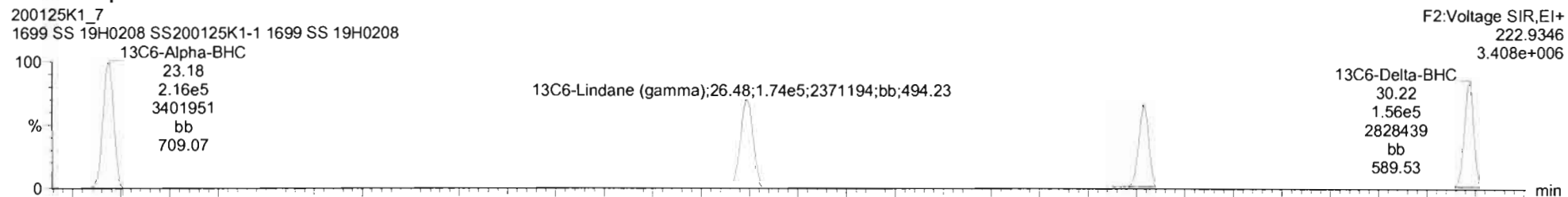
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

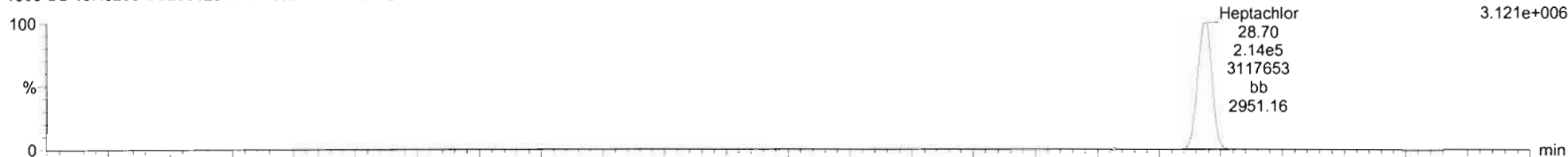
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Heptachlor

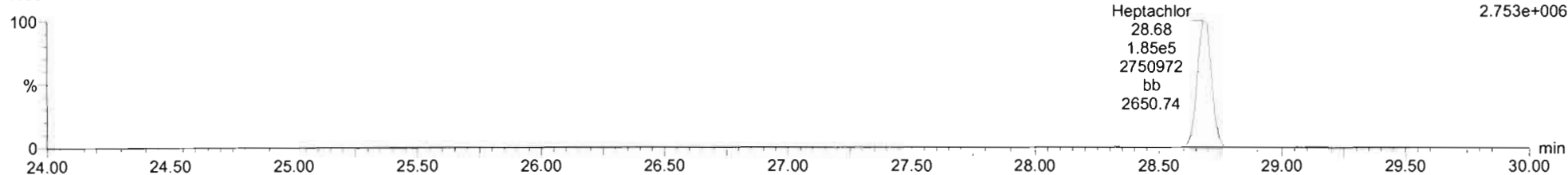
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F2:Voltage SIR,EI+
271.8102
3.121e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

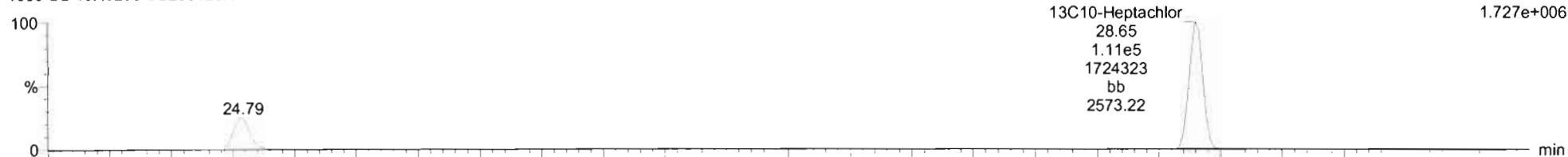
F2:Voltage SIR,EI+
273.8072
2.753e+006



13C10-Heptachlor

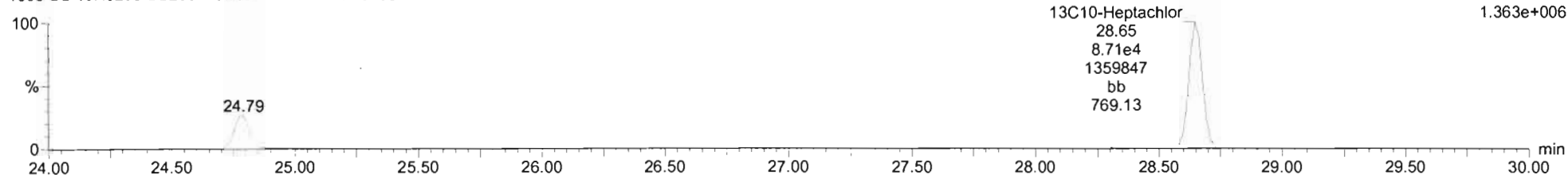
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

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

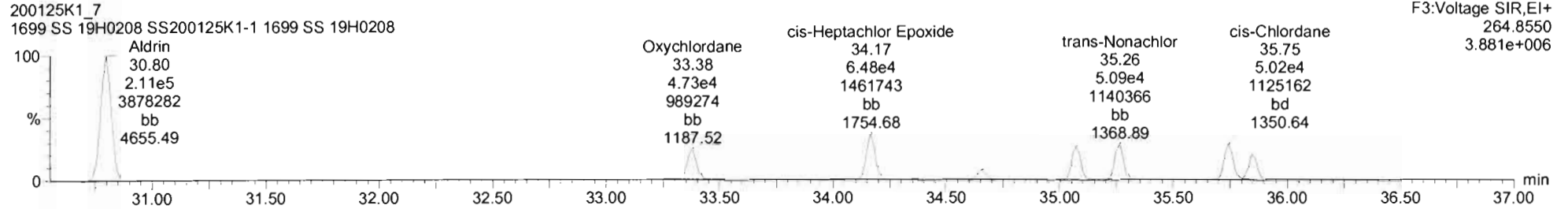
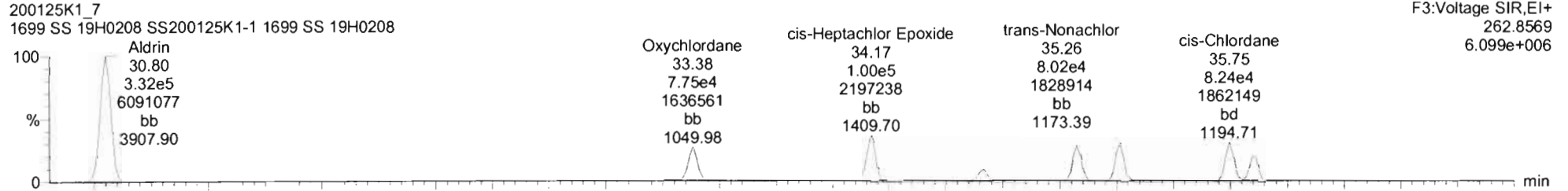


Dataset: Untitled

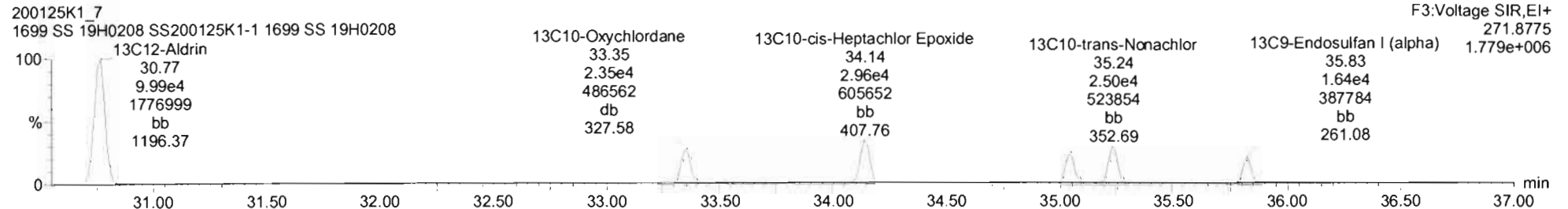
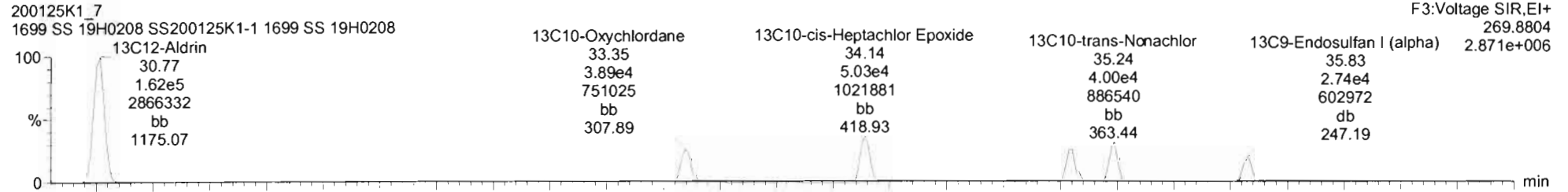
Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

Aldrin-EI



Aldrin-EI-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

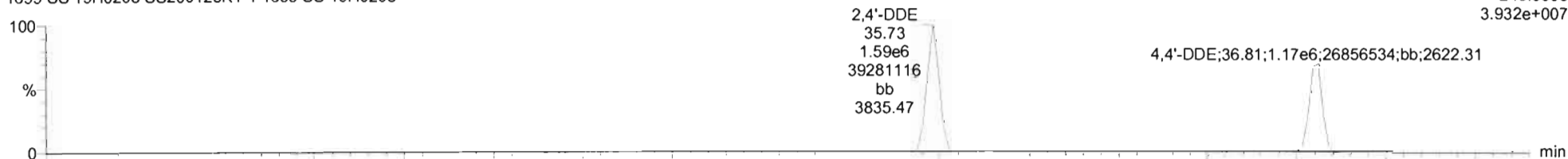
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DDMU-DDE

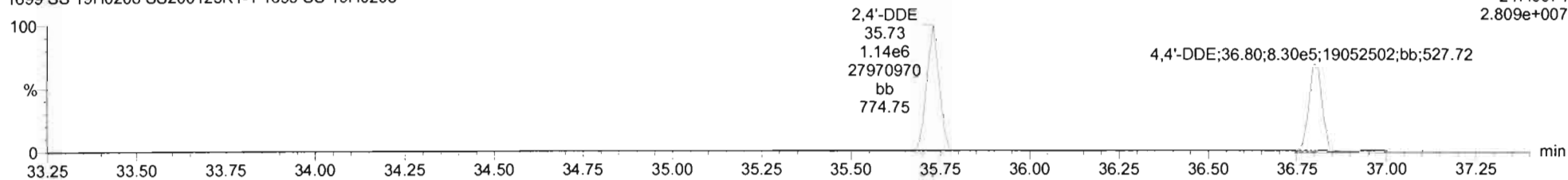
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F3:Voltage SIR,EI+
246.0003
3.932e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

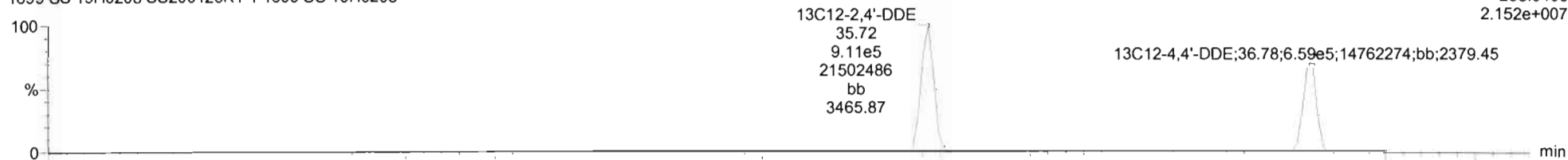
F3:Voltage SIR,EI+
247.9974
2.809e+007



DDE-isotopes

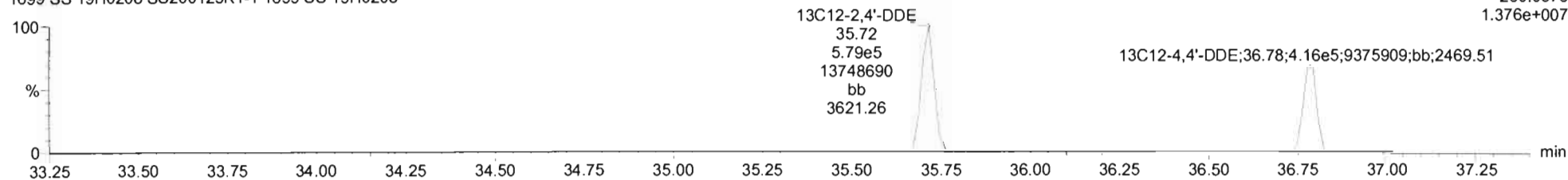
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

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

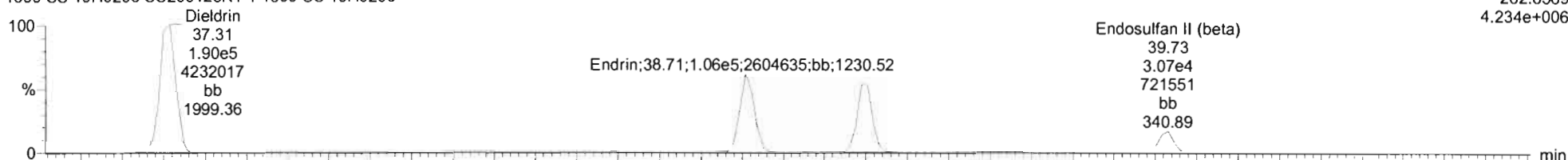
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

Dieldrin-Ell

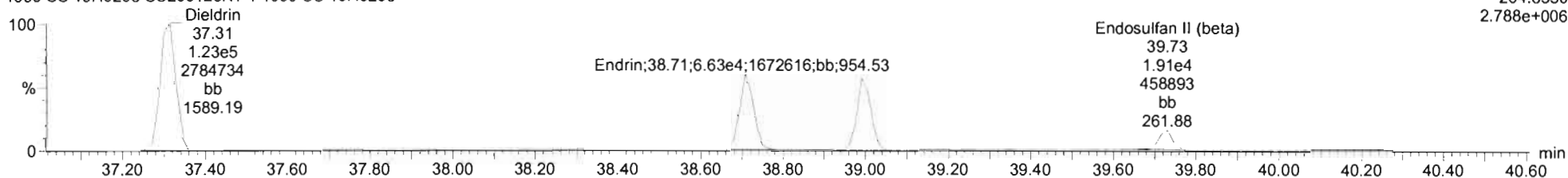
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F4:Voltage SIR,EI+
262.8569
4.234e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

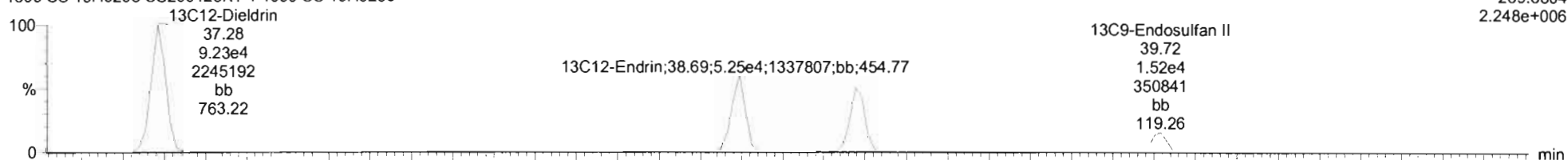
F4:Voltage SIR,EI+
264.8550
2.788e+006



Dieldrin-Ell-isotopes

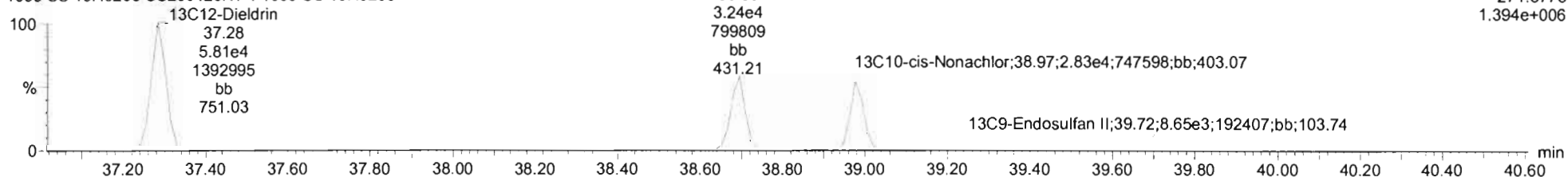
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

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

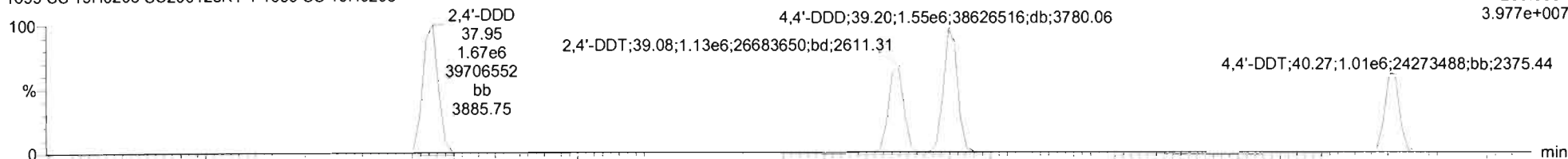
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

DDD-DDT

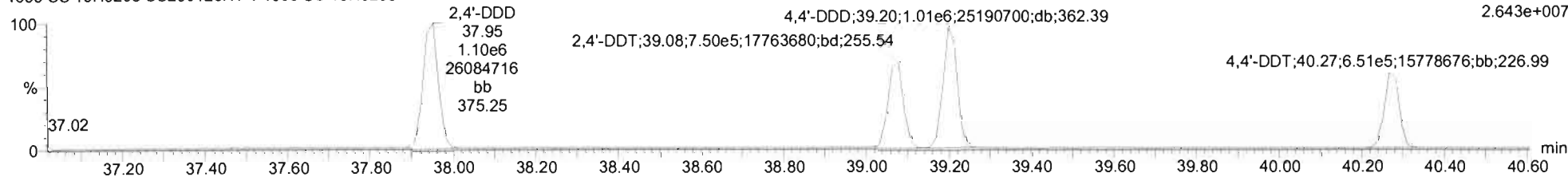
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F4:Voltage SIR,EI+
235.0081
3.977e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

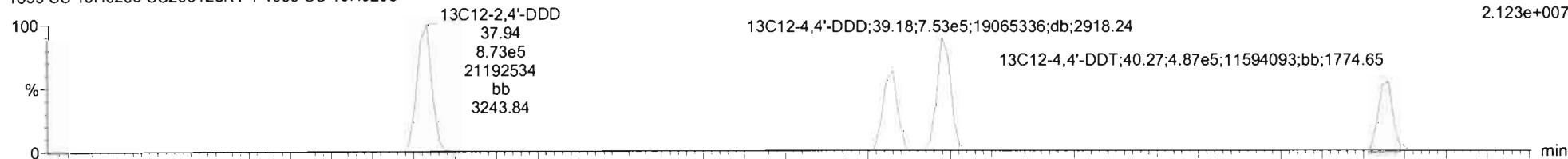
F4:Voltage SIR,EI+
237.0052
2.643e+007



DDD-DDT-isotopes

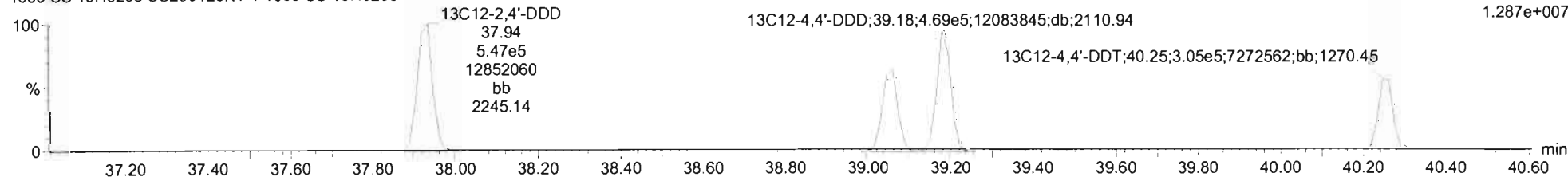
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

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

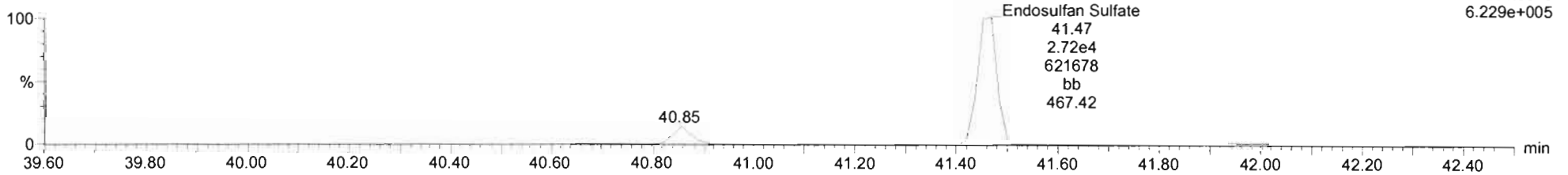
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
262.8569
1.049e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

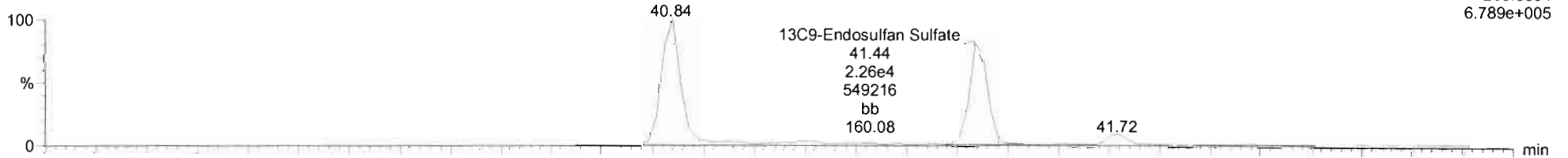
F5:Voltage SIR,EI+
264.8540
6.229e+005



13C9-Endosulfan Sulfate

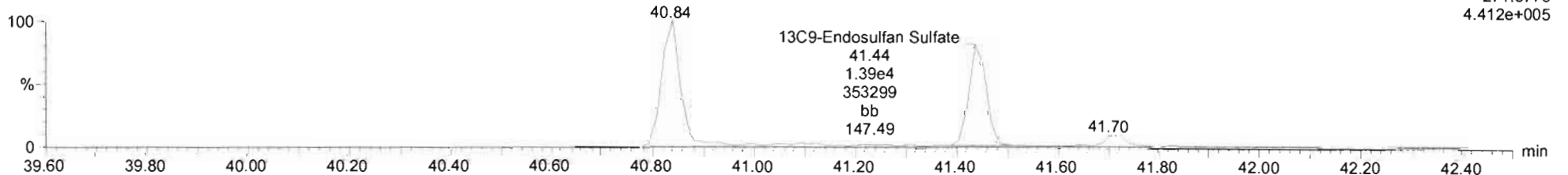
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

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

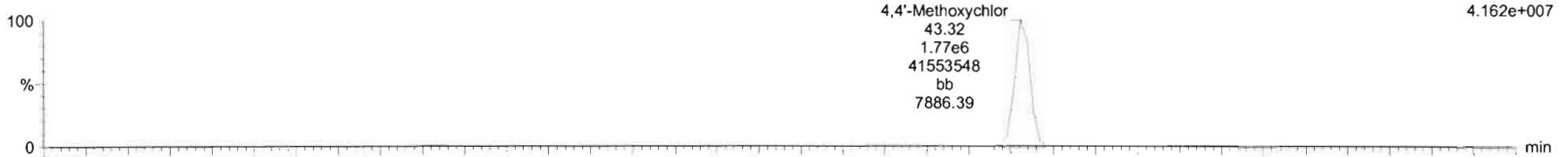
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

4,4'-Methoxychlor

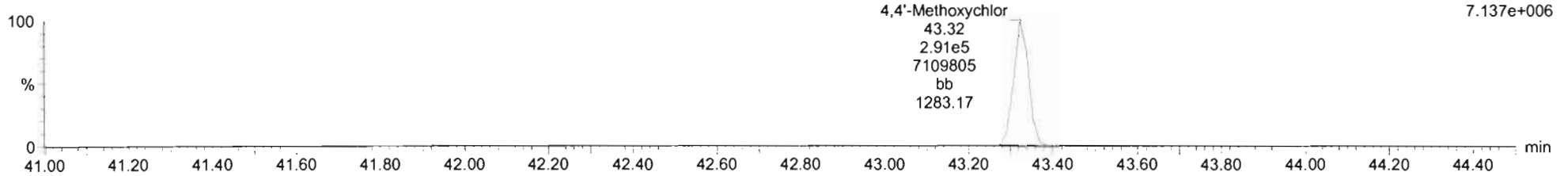
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
227.1072
4.162e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

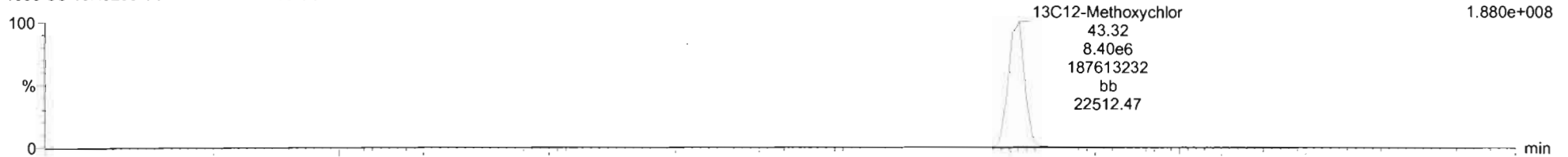
F5:Voltage SIR,EI+
228.1106
7.137e+006



13C12-Methoxychlor

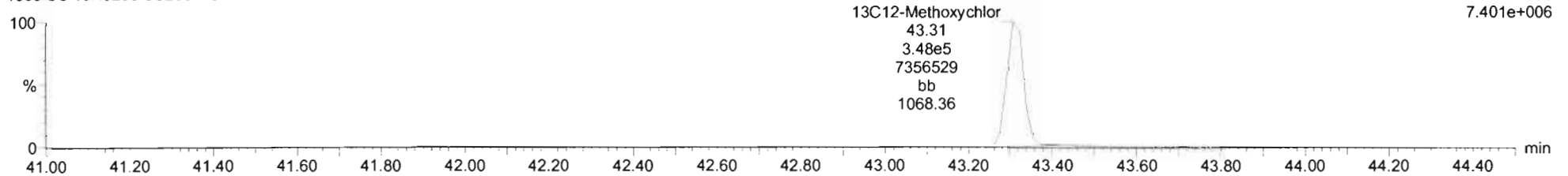
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

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

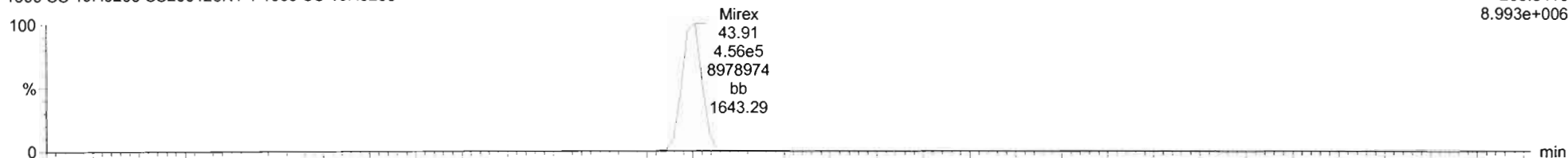
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Mirex

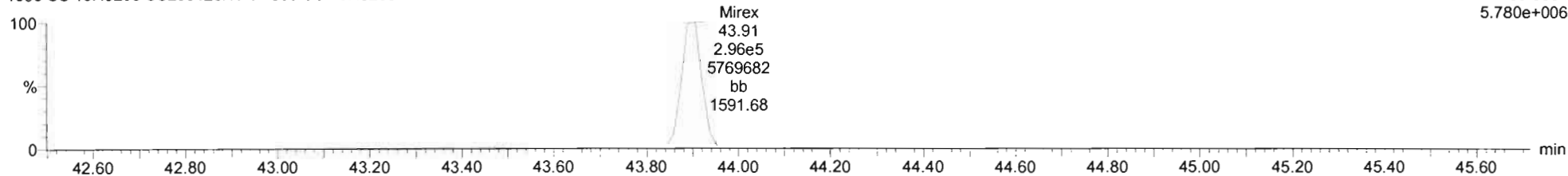
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
236.8413
8.993e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

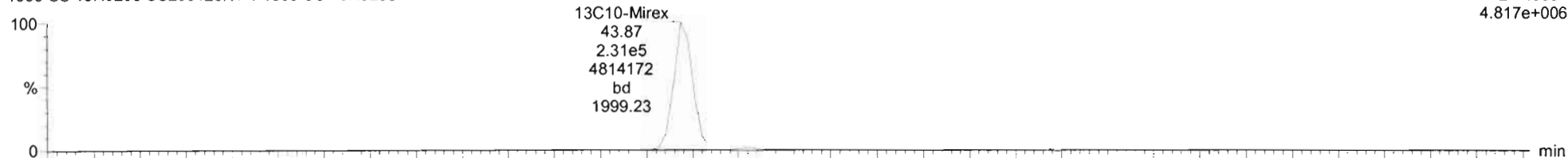
F5:Voltage SIR,EI+
238.8384
5.780e+006



13C10-Mirex

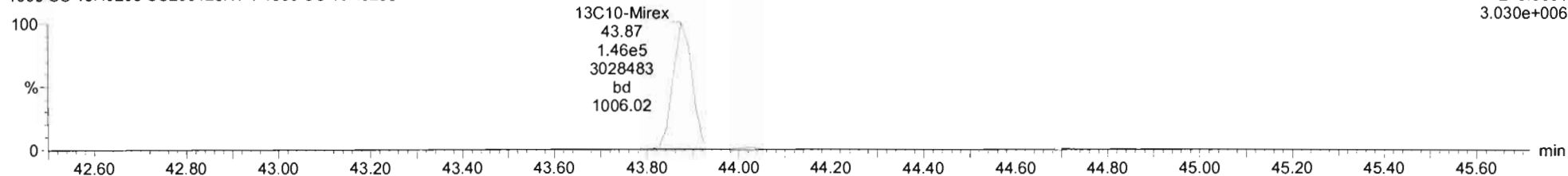
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

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

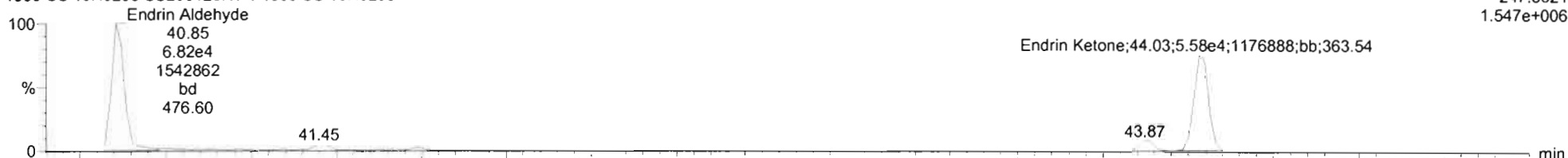
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EA-EK

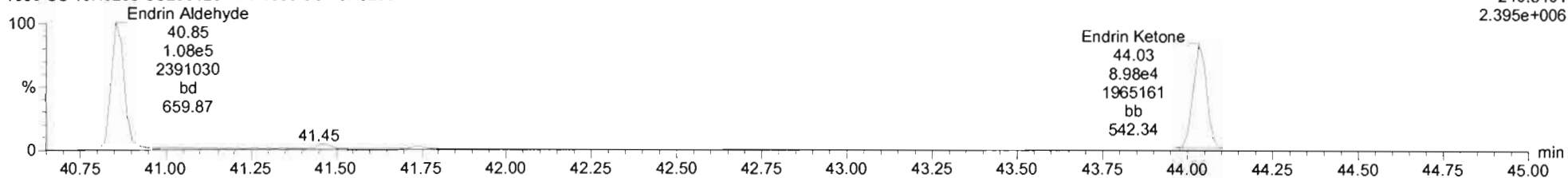
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
247.8521
1.547e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

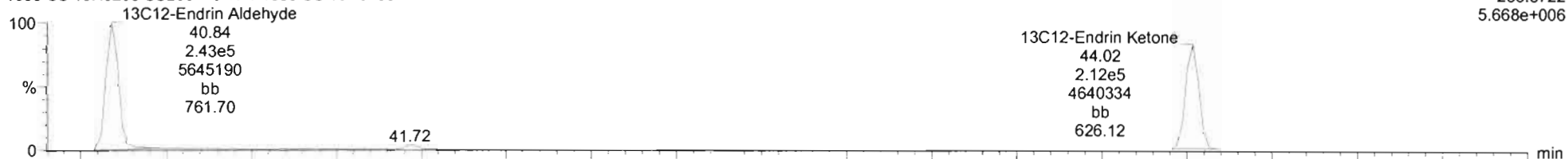
F5:Voltage SIR,EI+
249.8491
2.395e+006



EA-EK-isotopes

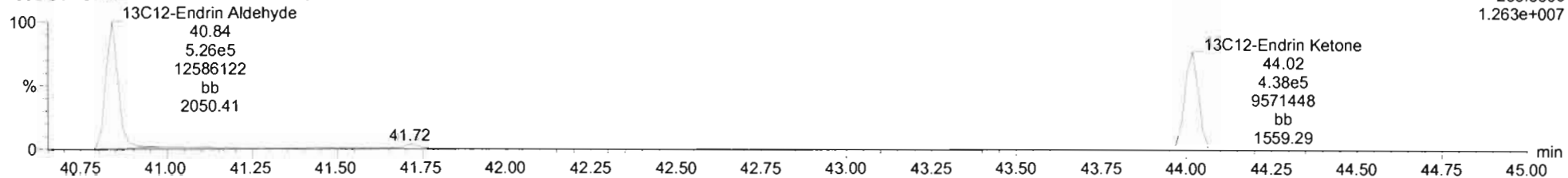
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

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

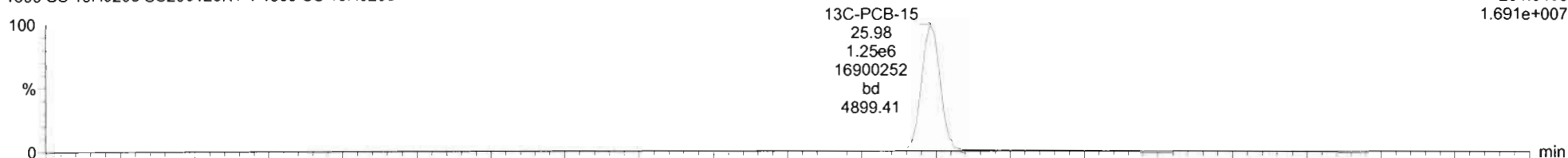
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

13C-PCB-15

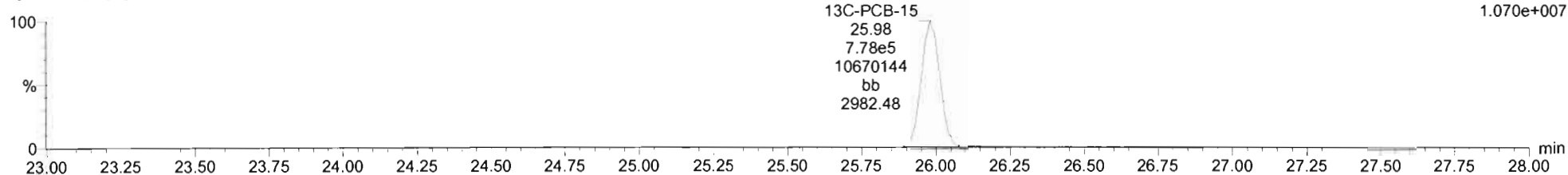
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F2:Voltage SIR,EI+
234.0406
1.691e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

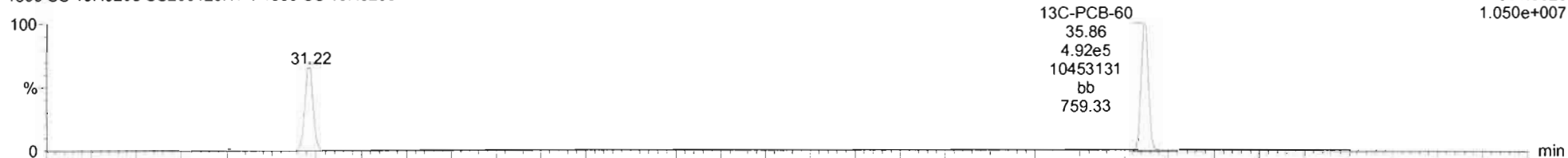
F2:Voltage SIR,EI+
236.0376
1.070e+007



13C-PCB-60

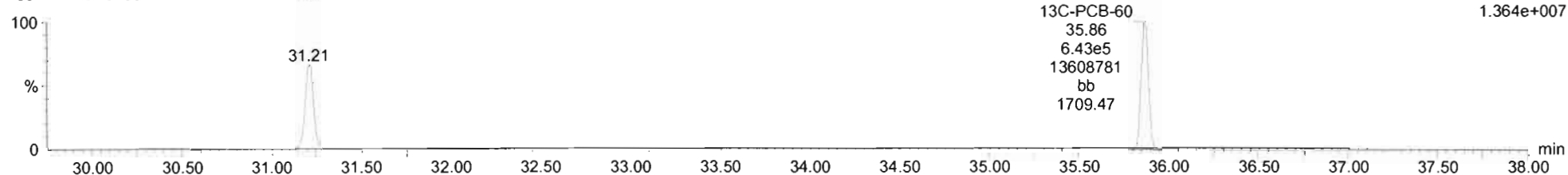
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

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

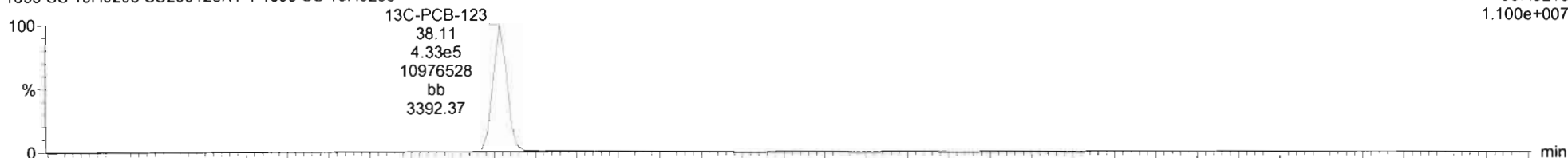
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

13C-PCB-123

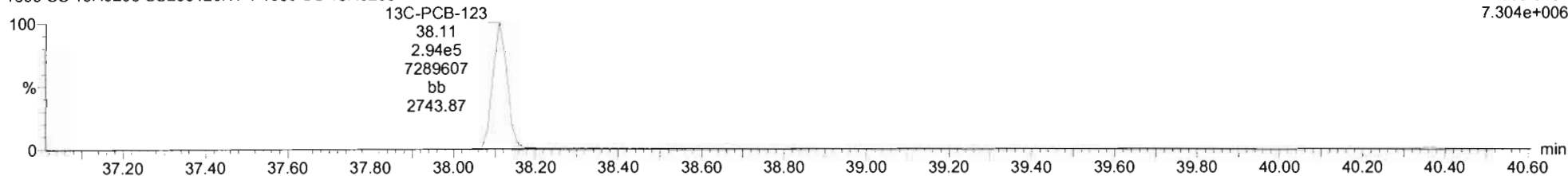
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F4:Voltage SIR,EI+
337.9210
1.100e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

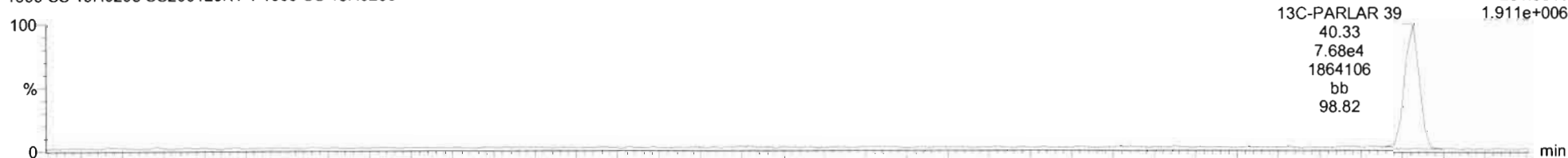
F4:Voltage SIR,EI+
339.9180
7.304e+006



13C-PARLAR 39

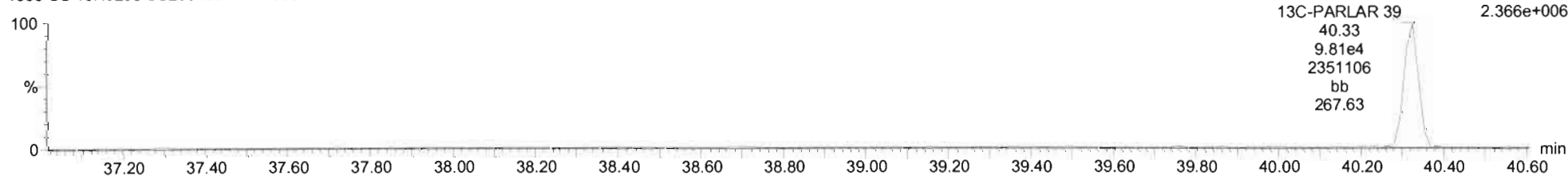
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

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



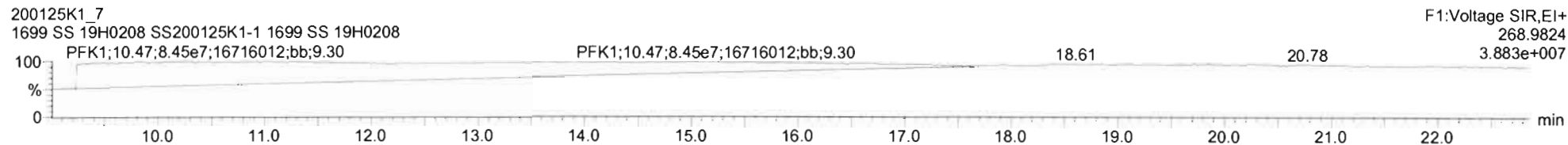
Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

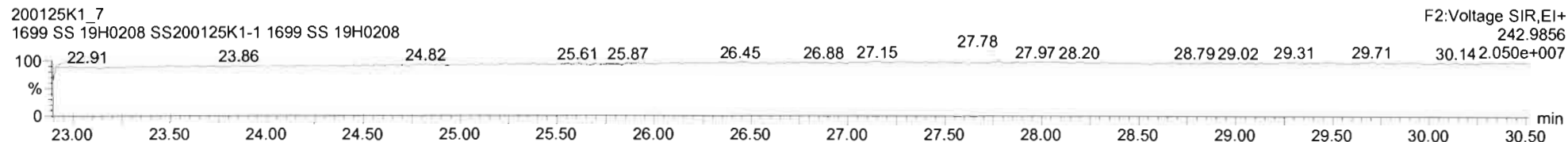
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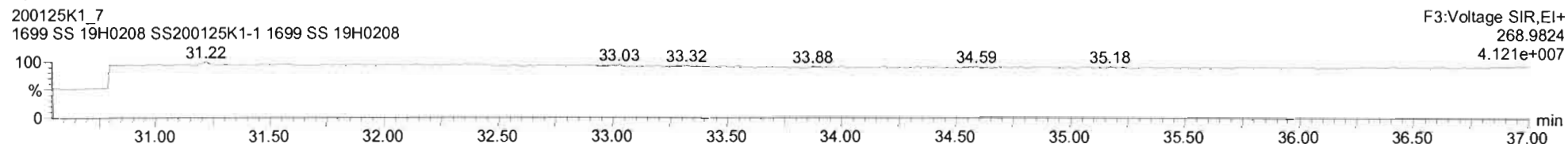
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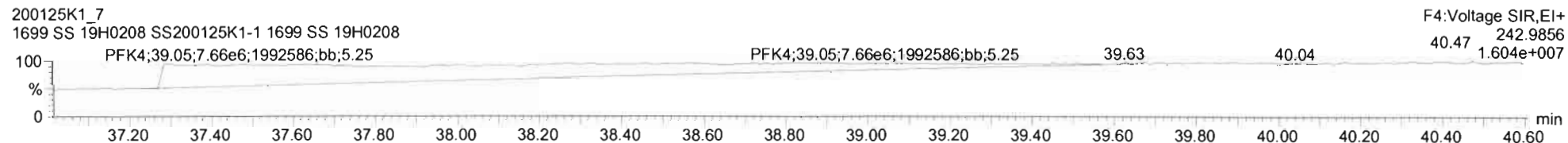
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PFK3



PFK4



PFK5

