ANALYTICAL REPORT

Job Number: 680-87545-2

SDG Number: 68087545-2

Job Description: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, GA 30060

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
3/1/2013 9:40 AM

Designee for
Lisa Harvey
Project Manager II
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03/01/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87545-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.8º C and 3.4º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0161L-CS (680-87545-21), FM0161M-CS (680-87545-22), FM0161M-CSD (680-87545-23), FM0161N-CS (680-87545-24), FM0161O-CS (680-87545-25), FM0161P-CS (680-87545-26), FM0161Q-CS (680-87545-27), FM0161R-CS (680-87545-28), FM0161S-CS (680-87545-29), FM0161T-CS (680-87545-30), FM0161U-CS (680-87545-31), FM0161U-CSD (680-87545-32), FM0161V-CS (680-87545-33), FM0161W-CS (680-87545-34), FM0161X-CS (680-87545-35), FM0161Y-CS (680-87545-36), FM0161Z-CS (680-87545-37), FM0161AA-CS (680-87545-38), FM0161BB-CS (680-87545-39) and FM0161CC-CS (680-87545-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/21/2013 and analyzed on 02/22/2013 and 02/25/2013.

Samples FM0161V-CS (680-87545-33)[4X], FM0161W-CS (680-87545-34)[4X], FM0161X-CS (680-87545-35)[4X] and FM0161Y-CS (680-87545-36)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]anthracene, Benzo[b]fluoranthene, Fluoranthene and Pyrene recovered outside the recovery criteria for the MS of sample 680-87545-1 in batch 660-134776.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-2
Sdg Number: 68087545-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87545-21	FM0161L-CS	Solid	02/14/2013 0948	02/16/2013 0903
680-87545-22	FM0161M-CS	Solid	02/14/2013 0955	02/16/2013 0903
680-87545-23	FM0161M-CSD	Solid	02/14/2013 0958	02/16/2013 0903
680-87545-24	FM0161N-CS	Solid	02/14/2013 1005	02/16/2013 0903
680-87545-25	FM0161O-CS	Solid	02/14/2013 1024	02/16/2013 0903
680-87545-26	FM0161P-CS	Solid	02/14/2013 1027	02/16/2013 0903
680-87545-27	FM0161Q-CS	Solid	02/14/2013 1031	02/16/2013 0903
680-87545-28	FM0161R-CS	Solid	02/14/2013 1035	02/16/2013 0903
680-87545-29	FM0161S-CS	Solid	02/14/2013 1045	02/16/2013 0903
680-87545-30	FM0161T-CS	Solid	02/14/2013 1049	02/16/2013 0903
680-87545-31	FM0161U-CS	Solid	02/14/2013 1252	02/16/2013 0903
680-87545-32	FM0161U-CSD	Solid	02/14/2013 1254	02/16/2013 0903
680-87545-33	FM0161V-CS	Solid	02/14/2013 1258	02/16/2013 0903
680-87545-34	FM0161W-CS	Solid	02/14/2013 1300	02/16/2013 0903
680-87545-34MS	FM0161W-CS	Solid	02/14/2013 1300	02/16/2013 0903
680-87545-34MSD	FM0161W-CS	Solid	02/14/2013 1300	02/16/2013 0903
680-87545-35	FM0161X-CS	Solid	02/14/2013 1306	02/16/2013 0903
680-87545-36	FM0161Y-CS	Solid	02/14/2013 1310	02/16/2013 0903
680-87545-37	FM0161Z-CS	Solid	02/14/2013 1326	02/16/2013 0903
680-87545-38	FM0161AA-CS	Solid	02/14/2013 1325	02/16/2013 0903
680-87545-39	FM0161BB-CS	Solid	02/14/2013 1346	02/16/2013 0903
680-87545-40	FM0161CC-CS	Solid	02/14/2013 1356	02/16/2013 0903

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-2
Sdg Number: 68087545-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Microwave Extraction	TAL TAM		SW846 3546
Percent Moisture	TAL TAM	EPA Moisture	

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-2
Sdg Number: 68087545-2

Method	Analyst	Analyst ID
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Galio, Andrew	AG

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-2
Sdg Number: 68087545-2

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-2
Sdg Number: 68087545-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134712					
LCS 660-134712/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134712/1-A	Method Blank	T	Solid	3546	
680-87545-A-1-B MS	Matrix Spike	T	Solid	3546	
680-87545-A-1-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87545-21	FM0161L-CS	T	Solid	3546	
680-87545-22	FM0161M-CS	T	Solid	3546	
680-87545-23	FM0161M-CSD	T	Solid	3546	
680-87545-24	FM0161N-CS	T	Solid	3546	
680-87545-25	FM0161O-CS	T	Solid	3546	
680-87545-26	FM0161P-CS	T	Solid	3546	
680-87545-27	FM0161Q-CS	T	Solid	3546	
680-87545-28	FM0161R-CS	T	Solid	3546	
Prep Batch: 660-134730					
LCS 660-134730/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134730/1-A	Method Blank	T	Solid	3546	
680-87545-29	FM0161S-CS	T	Solid	3546	
680-87545-30	FM0161T-CS	T	Solid	3546	
680-87545-31	FM0161U-CS	T	Solid	3546	
680-87545-32	FM0161U-CSD	T	Solid	3546	
680-87545-33	FM0161V-CS	T	Solid	3546	
680-87545-34	FM0161W-CS	T	Solid	3546	
680-87545-34MS	Matrix Spike	T	Solid	3546	
680-87545-34MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87545-35	FM0161X-CS	T	Solid	3546	
680-87545-36	FM0161Y-CS	T	Solid	3546	
680-87545-37	FM0161Z-CS	T	Solid	3546	
680-87545-38	FM0161AA-CS	T	Solid	3546	
680-87545-39	FM0161BB-CS	T	Solid	3546	
680-87545-40	FM0161CC-CS	T	Solid	3546	
Analysis Batch:660-134776					
LCS 660-134712/2-A	Lab Control Sample	T	Solid	8270C LL	660-134712
MB 660-134712/1-A	Method Blank	T	Solid	8270C LL	660-134712
680-87545-A-1-B MS	Matrix Spike	T	Solid	8270C LL	660-134712
680-87545-A-1-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134712
680-87545-21	FM0161L-CS	T	Solid	8270C LL	660-134712
680-87545-22	FM0161M-CS	T	Solid	8270C LL	660-134712

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-2
Sdg Number: 68087545-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-134781					
LCS 660-134730/2-A	Lab Control Sample	T	Solid	8270C LL	660-134730
MB 660-134730/1-A	Method Blank	T	Solid	8270C LL	660-134730
680-87545-29	FM0161S-CS	T	Solid	8270C LL	660-134730
680-87545-30	FM0161T-CS	T	Solid	8270C LL	660-134730
680-87545-31	FM0161U-CS	T	Solid	8270C LL	660-134730
680-87545-32	FM0161U-CSD	T	Solid	8270C LL	660-134730
680-87545-33	FM0161V-CS	T	Solid	8270C LL	660-134730
680-87545-34	FM0161W-CS	T	Solid	8270C LL	660-134730
680-87545-34MS	Matrix Spike	T	Solid	8270C LL	660-134730
680-87545-34MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134730
680-87545-35	FM0161X-CS	T	Solid	8270C LL	660-134730
680-87545-36	FM0161Y-CS	T	Solid	8270C LL	660-134730
680-87545-37	FM0161Z-CS	T	Solid	8270C LL	660-134730
680-87545-38	FM0161AA-CS	T	Solid	8270C LL	660-134730
Analysis Batch:660-134820					
680-87545-23	FM0161M-CSD	T	Solid	8270C LL	660-134712
680-87545-24	FM0161N-CS	T	Solid	8270C LL	660-134712
680-87545-25	FM0161O-CS	T	Solid	8270C LL	660-134712
680-87545-26	FM0161P-CS	T	Solid	8270C LL	660-134712
680-87545-27	FM0161Q-CS	T	Solid	8270C LL	660-134712
680-87545-28	FM0161R-CS	T	Solid	8270C LL	660-134712
680-87545-39	FM0161BB-CS	T	Solid	8270C LL	660-134730
680-87545-40	FM0161CC-CS	T	Solid	8270C LL	660-134730

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-2
Sdg Number: 68087545-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134638					
MB 660-134638/1	Method Blank	T	Solid	Moisture	
680-87545-A-1 MS	Matrix Spike	T	Solid	Moisture	
680-87545-A-1 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-87545-21	FM0161L-CS	T	Solid	Moisture	
680-87545-22	FM0161M-CS	T	Solid	Moisture	
680-87545-23	FM0161M-CSD	T	Solid	Moisture	
680-87545-24	FM0161N-CS	T	Solid	Moisture	
680-87545-25	FM0161O-CS	T	Solid	Moisture	
680-87545-26	FM0161P-CS	T	Solid	Moisture	
680-87545-27	FM0161Q-CS	T	Solid	Moisture	
680-87545-28	FM0161R-CS	T	Solid	Moisture	
680-87545-29	FM0161S-CS	T	Solid	Moisture	
680-87545-30	FM0161T-CS	T	Solid	Moisture	
680-87545-31	FM0161U-CS	T	Solid	Moisture	
680-87545-32	FM0161U-CSD	T	Solid	Moisture	
680-87545-33	FM0161V-CS	T	Solid	Moisture	
680-87545-34	FM0161W-CS	T	Solid	Moisture	
680-87545-34MS	Matrix Spike	T	Solid	Moisture	
680-87545-34MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-87545-35	FM0161X-CS	T	Solid	Moisture	
680-87545-40	FM0161CC-CS	T	Solid	Moisture	
Analysis Batch:660-134650					
LCS 660-134650/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134650/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87545-36	FM0161Y-CS	T	Solid	Moisture	
680-87545-37	FM0161Z-CS	T	Solid	Moisture	
680-87545-38	FM0161AA-CS	T	Solid	Moisture	
680-87545-39	FM0161BB-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: IC 660-134771/3 Client Sample ID:

Date Analyzed: 02/22/13 11:01 Lab File ID: 1AB22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.18	Split Peak	cantins	02/22/13 12:53

Lab Sample ID: IC 660-134771/4 Client Sample ID:

Date Analyzed: 02/22/13 11:16 Lab File ID: 1AB22004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/22/13 12:54

Lab Sample ID: IC 660-134771/5 Client Sample ID:

Date Analyzed: 02/22/13 11:31 Lab File ID: 1AB22005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/22/13 12:54

Lab Sample ID: IC 660-134771/6 Client Sample ID:

Date Analyzed: 02/22/13 11:47 Lab File ID: 1AB22006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/22/13 12:54

Lab Sample ID: ICIS 660-134771/7 Client Sample ID:

Date Analyzed: 02/22/13 12:02 Lab File ID: 1AB22007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.18	Split Peak	cantins	02/22/13 12:51

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: IC 660-134771/8 Client Sample ID:

Date Analyzed: 02/22/13 12:17 Lab File ID: 1AB22008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.19	Split Peak	cantins	02/22/13 12:55

Lab Sample ID: IC 660-134771/9 Client Sample ID:

Date Analyzed: 02/22/13 12:32 Lab File ID: 1AB22009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.20	Split Peak	cantins	02/22/13 12:56

Lab Sample ID: ICV 660-134771/10 Client Sample ID:

Date Analyzed: 02/22/13 12:48 Lab File ID: 1AB22010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.55	Baseline Event	cantins	02/22/13 13:04
Indeno[1,2,3-cd]pyrene	8.19	Split Peak	cantins	02/22/13 13:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMA5973 Analysis Batch Number: 134820

Lab Sample ID: CCVIS 660-134820/6 Client Sample ID:

Date Analyzed: 02/25/13 14:59 Lab File ID: 1AB25006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.16	Split Peak	cantins	02/25/13 15:12

Lab Sample ID: 680-87545-39 Client Sample ID: FM0161BB-CS

Date Analyzed: 02/25/13 15:44 Lab File ID: 1AB25009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.17	Split Peak	cantins	02/27/13 10:14
Benzo[k]fluoranthene	7.18	Baseline Event	cantins	02/27/13 10:14
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/27/13 10:14

Lab Sample ID: 680-87545-40 Client Sample ID: FM0161CC-CS

Date Analyzed: 02/25/13 15:59 Lab File ID: 1AB25010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.17	Split Peak	cantins	02/27/13 10:15
Benzo[k]fluoranthene	7.18	Baseline Event	cantins	02/27/13 10:15
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/27/13 10:16

Lab Sample ID: 680-87545-23 Client Sample ID: FM0161M-CSD

Date Analyzed: 02/25/13 17:00 Lab File ID: 1AB25014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.20	Split Peak	cantins	02/26/13 12:06
Benzo[k]fluoranthene	7.21	Baseline Event	cantins	02/26/13 12:06
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/26/13 12:07

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMA5973 Analysis Batch Number: 134820

Lab Sample ID: 680-87545-24 Client Sample ID: FM0161N-CS

Date Analyzed: 02/25/13 17:15 Lab File ID: 1AB25015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.20	Split Peak	cantins	02/26/13 12:08
Benzo[k]fluoranthene	7.21	Baseline Event	cantins	02/26/13 12:08
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/26/13 12:09
Benzo[g,h,i]perylene	8.42	Baseline Event	cantins	02/26/13 12:09

Lab Sample ID: 680-87545-25 Client Sample ID: FM0161O-CS

Date Analyzed: 02/25/13 17:30 Lab File ID: 1AB25016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.20	Split Peak	cantins	02/26/13 12:11
Benzo[k]fluoranthene	7.22	Baseline Event	cantins	02/26/13 12:11
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/26/13 12:12

Lab Sample ID: 680-87545-26 Client Sample ID: FM0161P-CS

Date Analyzed: 02/25/13 17:45 Lab File ID: 1AB25017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.20	Split Peak	cantins	02/26/13 12:16
Benzo[k]fluoranthene	7.22	Baseline Event	cantins	02/26/13 12:17
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/26/13 12:17
Benzo[g,h,i]perylene	8.43	Baseline Event	cantins	02/26/13 12:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMA5973 Analysis Batch Number: 134820

Lab Sample ID: 680-87545-27 Client Sample ID: FM0161Q-CS

Date Analyzed: 02/25/13 18:00 Lab File ID: 1AB25018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.20	Split Peak	cantins	02/26/13 12:19
Benzo[k]fluoranthene	7.22	Baseline Event	cantins	02/26/13 12:19
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/26/13 12:20

Lab Sample ID: 680-87545-28 Client Sample ID: FM0161R-CS

Date Analyzed: 02/25/13 18:15 Lab File ID: 1AB25019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.20	Split Peak	cantins	02/26/13 12:21
Benzo[k]fluoranthene	7.22	Baseline Event	cantins	02/26/13 12:21
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/26/13 12:22

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: IC 660-134776/3 Client Sample ID:

Date Analyzed: 02/22/13 11:57 Lab File ID: 1CB22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:13

Lab Sample ID: IC 660-134776/4 Client Sample ID:

Date Analyzed: 02/22/13 12:16 Lab File ID: 1CB22004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/5 Client Sample ID:

Date Analyzed: 02/22/13 12:34 Lab File ID: 1CB22005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/6 Client Sample ID:

Date Analyzed: 02/22/13 12:53 Lab File ID: 1CB22006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: ICIS 660-134776/7 Client Sample ID:

Date Analyzed: 02/22/13 13:11 Lab File ID: 1CB22007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:11

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: IC 660-134776/8 Client Sample ID:

Date Analyzed: 02/22/13 13:29 Lab File ID: 1CB22008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: IC 660-134776/9 Client Sample ID:

Date Analyzed: 02/22/13 13:48 Lab File ID: 1CB22009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: ICV 660-134776/10 Client Sample ID:

Date Analyzed: 02/22/13 14:06 Lab File ID: 1CB22010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:21

Lab Sample ID: LCS 660-134712/2-A Client Sample ID:

Date Analyzed: 02/22/13 14:45 Lab File ID: 1CB22012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/26/13 10:50

Lab Sample ID: 680-87545-A-1-B MS Client Sample ID:

Date Analyzed: 02/22/13 15:21 Lab File ID: 1CB22014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/26/13 10:52

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: 680-87545-A-1-C MSD Client Sample ID:

Date Analyzed: 02/22/13 15:40 Lab File ID: 1CB22015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/26/13 10:52

Lab Sample ID: 680-87545-21 Client Sample ID: FM0161L-CS

Date Analyzed: 02/22/13 19:19 Lab File ID: 1CB22027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/26/13 11:40
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/26/13 11:40
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/26/13 11:41
Dibenz(a,h)anthracene	10.25	Baseline Event	cantins	02/26/13 11:40
Benzo[g,h,i]perylene	10.60	Baseline Event	cantins	02/26/13 11:41

Lab Sample ID: 680-87545-22 Client Sample ID: FM0161M-CS

Date Analyzed: 02/22/13 19:38 Lab File ID: 1CB22028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/26/13 11:41
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/26/13 11:42
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/26/13 11:42

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMD5973 Analysis Batch Number: 134781

Lab Sample ID: IC 660-134781/3 Client Sample ID:

Date Analyzed: 02/22/13 12:13 Lab File ID: 1DB22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	14.97	Baseline Event	cantins	02/22/13 14:57
Benzo[g,h,i]perylene	15.38	Baseline Event	cantins	02/22/13 14:57

Lab Sample ID: IC 660-134781/4 Client Sample ID:

Date Analyzed: 02/22/13 12:35 Lab File ID: 1DB22004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.93	Split Peak	cantins	02/22/13 14:58

Lab Sample ID: IC 660-134781/5 Client Sample ID:

Date Analyzed: 02/22/13 12:58 Lab File ID: 1DB22005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/13 14:58

Lab Sample ID: IC 660-134781/6 Client Sample ID:

Date Analyzed: 02/22/13 13:21 Lab File ID: 1DB22006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/13 14:59

Lab Sample ID: IC 660-134781/9 Client Sample ID:

Date Analyzed: 02/22/13 14:28 Lab File ID: 1DB22009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.00	Split Peak	cantins	02/22/13 15:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMD5973 Analysis Batch Number: 134781

Lab Sample ID: ICV 660-134781/10 Client Sample ID:

Date Analyzed: 02/22/13 14:51 Lab File ID: 1DB22010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	9.32	Baseline Event	cantins	02/22/13 15:27

Lab Sample ID: 680-87545-29 Client Sample ID: FM0161S-CS

Date Analyzed: 02/22/13 16:21 Lab File ID: 1DB22013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.95	Split Peak	cantins	02/26/13 15:07

Lab Sample ID: 680-87545-30 Client Sample ID: FM0161T-CS

Date Analyzed: 02/22/13 16:44 Lab File ID: 1DB22014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.96	Split Peak	cantins	02/26/13 15:14

Lab Sample ID: 680-87545-31 Client Sample ID: FM0161U-CS

Date Analyzed: 02/22/13 17:19 Lab File ID: 1DB22015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.96	Split Peak	cantins	02/26/13 15:16

Lab Sample ID: 680-87545-32 Client Sample ID: FM0161U-CSD

Date Analyzed: 02/22/13 17:42 Lab File ID: 1DB22016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.96	Split Peak	cantins	02/26/13 15:27

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMD5973 Analysis Batch Number: 134781

Lab Sample ID: 680-87545-33 Client Sample ID: FM0161V-CS

Date Analyzed: 02/22/13 18:04 Lab File ID: 1DB22017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.95	Split Peak	cantins	02/26/13 15:28

Lab Sample ID: 680-87545-34 Client Sample ID: FM0161W-CS

Date Analyzed: 02/22/13 18:27 Lab File ID: 1DB22018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/26/13 15:30

Lab Sample ID: 680-87545-34 MS Client Sample ID: FM0161W-CS MS

Date Analyzed: 02/22/13 18:49 Lab File ID: 1DB22019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.95	Split Peak	cantins	02/26/13 15:31

Lab Sample ID: 680-87545-34 MSD Client Sample ID: FM0161W-CS MSD

Date Analyzed: 02/22/13 19:12 Lab File ID: 1DB22020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.95	Split Peak	cantins	02/26/13 15:32

Lab Sample ID: 680-87545-35 Client Sample ID: FM0161X-CS

Date Analyzed: 02/22/13 19:34 Lab File ID: 1DB22021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.95	Split Peak	cantins	02/26/13 15:59

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMD5973 Analysis Batch Number: 134781

Lab Sample ID: 680-87545-36 Client Sample ID: FM0161Y-CS

Date Analyzed: 02/22/13 19:57 Lab File ID: 1DB22022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.95	Split Peak	cantins	02/26/13 16:08

Lab Sample ID: 680-87545-37 Client Sample ID: FM0161Z-CS

Date Analyzed: 02/22/13 20:19 Lab File ID: 1DB22023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.97	Split Peak	cantins	02/26/13 16:12

Lab Sample ID: 680-87545-38 Client Sample ID: FM0161AA-CS

Date Analyzed: 02/22/13 20:42 Lab File ID: 1DB22024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.97	Split Peak	cantins	02/26/13 16:13

Method 8270C Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Matrix: Solid Level: Low

GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH #
FM0161L-CS	680-87545-21	89
FM0161M-CS	680-87545-22	91
FM0161M-CSD	680-87545-23	57
FM0161N-CS	680-87545-24	55
FM0161O-CS	680-87545-25	60
FM0161P-CS	680-87545-26	77
FM0161Q-CS	680-87545-27	78
FM0161R-CS	680-87545-28	62
FM0161S-CS	680-87545-29	79
FM0161T-CS	680-87545-30	74
FM0161U-CS	680-87545-31	62
FM0161U-CSD	680-87545-32	71
FM0161V-CS	680-87545-33	86
FM0161W-CS	680-87545-34	97
FM0161X-CS	680-87545-35	97
FM0161Y-CS	680-87545-36	89
FM0161Z-CS	680-87545-37	82
FM0161AA-CS	680-87545-38	95
FM0161BB-CS	680-87545-39	65
FM0161CC-CS	680-87545-40	64
	MB 660-134712/1-A	88
	MB 660-134730/1-A	75
	LCS 660-134712/2-A	83
	LCS 660-134730/2-A	77
	680-87545-A-1-B MS	95
FM0161W-CS MS	680-87545-34 MS	94
	680-87545-A-1-C MSD	94
FM0161W-CS MSD	680-87545-34 MSD	91

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Matrix: Solid Level: Low Lab File ID: 1CB22012.D

Lab ID: LCS 660-134712/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	650	499	77	39-130	
Acenaphthylene	650	491	76	38-130	
Anthracene	650	491	76	37-130	
Benzo[a]anthracene	650	505	78	40-130	
Benzo[a]pyrene	650	466	72	49-130	
Benzo[b]fluoranthene	650	472	73	37-130	
Benzo[g,h,i]perylene	650	508	78	32-130	
Benzo[k]fluoranthene	650	544	84	32-130	
Chrysene	650	474	73	41-130	
Dibenz(a,h)anthracene	650	527	81	27-130	
Fluoranthene	650	515	79	40-130	
Fluorene	650	490	75	40-130	
Indeno[1,2,3-cd]pyrene	650	466	72	30-130	
1-Methylnaphthalene	650	517	80	31-130	
2-Methylnaphthalene	650	492	76	33-130	
Naphthalene	650	501	77	36-130	
Phenanthrene	650	486	75	42-130	
Pyrene	650	494	76	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Matrix: Solid Level: Low Lab File ID: 1DB22012.D

Lab ID: LCS 660-134730/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	659	450	68	39-130	
Acenaphthylene	659	469	71	38-130	
Anthracene	659	477	72	37-130	
Benzo[a]anthracene	659	512	78	40-130	
Benzo[a]pyrene	659	453	69	49-130	
Benzo[b]fluoranthene	659	487	74	37-130	
Benzo[g,h,i]perylene	659	483	73	32-130	
Benzo[k]fluoranthene	659	490	74	32-130	
Chrysene	659	461	70	41-130	
Dibenz(a,h)anthracene	659	509	77	27-130	
Fluoranthene	659	496	75	40-130	
Fluorene	659	475	72	40-130	
Indeno[1,2,3-cd]pyrene	659	461	70	30-130	
1-Methylnaphthalene	659	480	73	31-130	
2-Methylnaphthalene	659	464	70	33-130	
Naphthalene	659	446	68	36-130	
Phenanthrene	659	467	71	42-130	
Pyrene	659	470	71	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Matrix: Solid Level: Low Lab File ID: 1CB22014.D

Lab ID: 680-87545-A-1-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	717	430 U	619	86	39-130	
Acenaphthylene	717	90 J	620	74	38-130	
Anthracene	717	140	793	91	37-130	
Benzo[a]anthracene	717	740	1740	140	40-130	F
Benzo[a]pyrene	717	740	1580	116	49-130	
Benzo[b]fluoranthene	717	1200	2340	156	37-130	F
Benzo[g,h,i]perylene	717	580	1250	93	32-130	
Benzo[k]fluoranthene	717	450	1230	110	32-130	
Chrysene	717	890	1760	121	41-130	
Dibenz(a,h)anthracene	717	150	769	86	27-130	
Fluoranthene	717	1600	2990	195	40-130	F
Fluorene	717	35 J	629	83	40-130	
Indeno[1,2,3-cd]pyrene	717	490	1260	107	30-130	
1-Methylnaphthalene	717	150 J	853	98	31-130	
2-Methylnaphthalene	717	160 J	816	91	33-130	
Naphthalene	717	150 J	743	83	36-130	
Phenanthrene	717	700	1490	110	42-130	
Pyrene	717	1300	2600	182	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Matrix: Solid Level: Low Lab File ID: 1DB22019.D

Lab ID: 680-87545-34 MS Client ID: FM0161W-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	693	420 U	593	86	39-130	
Acenaphthylene	693	22 J	645	90	38-130	
Anthracene	693	36	643	88	37-130	
Benzo[a]anthracene	693	110	785	98	40-130	
Benzo[a]pyrene	693	89	672	84	49-130	
Benzo[b]fluoranthene	693	190	753	81	37-130	
Benzo[g,h,i]perylene	693	83	635	80	32-130	
Benzo[k]fluoranthene	693	54	701	93	32-130	
Chrysene	693	190	748	81	41-130	
Dibenz(a,h)anthracene	693	27 J	660	91	27-130	
Fluoranthene	693	160	792	91	40-130	
Fluorene	693	83 U	645	93	40-130	
Indeno[1,2,3-cd]pyrene	693	70 J	650	84	30-130	
1-Methylnaphthalene	693	78 J	680	87	31-130	
2-Methylnaphthalene	693	93 J	667	83	33-130	
Naphthalene	693	110 J	635	77	36-130	
Phenanthrene	693	150	751	87	42-130	
Pyrene	693	140	748	88	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Matrix: Solid Level: Low Lab File ID: 1CB22015.D

Lab ID: 680-87545-A-1-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	717	585	82	6	40	39-130	
Acenaphthylene	717	662	80	7	40	38-130	
Anthracene	717	711	79	11	40	37-130	
Benzo[a]anthracene	717	1450	99	18	40	40-130	
Benzo[a]pyrene	717	1330	81	17	40	49-130	
Benzo[b]fluoranthene	717	1860	89	23	40	37-130	
Benzo[g,h,i]perylene	717	1110	73	12	40	32-130	
Benzo[k]fluoranthene	717	1110	92	11	40	32-130	
Chrysene	717	1490	84	17	40	41-130	
Dibenz(a,h)anthracene	717	711	78	8	40	27-130	
Fluoranthene	717	2230	89	29	40	40-130	
Fluorene	717	591	77	6	40	40-130	
Indeno[1,2,3-cd]pyrene	717	930	62	30	40	30-130	
1-Methylnaphthalene	717	809	92	5	40	31-130	
2-Methylnaphthalene	717	781	87	4	40	33-130	
Naphthalene	717	648	69	14	40	36-130	
Phenanthrene	717	1240	75	19	40	42-130	
Pyrene	717	1940	92	29	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Matrix: Solid Level: Low Lab File ID: 1DB22020.D

Lab ID: 680-87545-34 MSD Client ID: FM0161W-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	693	558	81	6	40	39-130	
Acenaphthylene	693	589	82	9	40	38-130	
Anthracene	693	629	86	2	40	37-130	
Benzo[a]anthracene	693	751	93	4	40	40-130	
Benzo[a]pyrene	693	659	82	2	40	49-130	
Benzo[b]fluoranthene	693	811	89	7	40	37-130	
Benzo[g,h,i]perylene	693	606	76	5	40	32-130	
Benzo[k]fluoranthene	693	646	85	8	40	32-130	
Chrysene	693	742	80	1	40	41-130	
Dibenz(a,h)anthracene	693	632	87	4	40	27-130	
Fluoranthene	693	799	92	1	40	40-130	
Fluorene	693	592	85	9	40	40-130	
Indeno[1,2,3-cd]pyrene	693	592	75	9	40	30-130	
1-Methylnaphthalene	693	625	79	9	40	31-130	
2-Methylnaphthalene	693	628	77	6	40	33-130	
Naphthalene	693	592	70	7	40	36-130	
Phenanthrene	693	757	88	1	40	42-130	
Pyrene	693	745	88	0	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Lab File ID: 1CB22011.D Lab Sample ID: MB 660-134712/1-A

Matrix: Solid Date Extracted: 02/21/2013 12:14

Instrument ID: BSMC5973 Date Analyzed: 02/22/2013 14:26

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134712/2-A	1CB22012.D	02/22/2013 14:45
	680-87545-A-1-B MS	1CB22014.D	02/22/2013 15:21
	680-87545-A-1-C MSD	1CB22015.D	02/22/2013 15:40
FM0161L-CS	680-87545-21	1CB22027.D	02/22/2013 19:19
FM0161M-CS	680-87545-22	1CB22028.D	02/22/2013 19:38
FM0161M-CSD	680-87545-23	1AB25014.D	02/25/2013 17:00
FM0161N-CS	680-87545-24	1AB25015.D	02/25/2013 17:15
FM0161O-CS	680-87545-25	1AB25016.D	02/25/2013 17:30
FM0161P-CS	680-87545-26	1AB25017.D	02/25/2013 17:45
FM0161Q-CS	680-87545-27	1AB25018.D	02/25/2013 18:00
FM0161R-CS	680-87545-28	1AB25019.D	02/25/2013 18:15

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Lab File ID: 1DB22011.D Lab Sample ID: MB 660-134730/1-A

Matrix: Solid Date Extracted: 02/21/2013 16:21

Instrument ID: BSMD5973 Date Analyzed: 02/22/2013 15:33

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134730/2-A	1DB22012.D	02/22/2013 15:56
FM0161S-CS	680-87545-29	1DB22013.D	02/22/2013 16:21
FM0161T-CS	680-87545-30	1DB22014.D	02/22/2013 16:44
FM0161U-CS	680-87545-31	1DB22015.D	02/22/2013 17:19
FM0161U-CSD	680-87545-32	1DB22016.D	02/22/2013 17:42
FM0161V-CS	680-87545-33	1DB22017.D	02/22/2013 18:04
FM0161W-CS	680-87545-34	1DB22018.D	02/22/2013 18:27
FM0161W-CS MS	680-87545-34 MS	1DB22019.D	02/22/2013 18:49
FM0161W-CS MSD	680-87545-34 MSD	1DB22020.D	02/22/2013 19:12
FM0161X-CS	680-87545-35	1DB22021.D	02/22/2013 19:34
FM0161Y-CS	680-87545-36	1DB22022.D	02/22/2013 19:57
FM0161Z-CS	680-87545-37	1DB22023.D	02/22/2013 20:19
FM0161AA-CS	680-87545-38	1DB22024.D	02/22/2013 20:42
FM0161BB-CS	680-87545-39	1AB25009.D	02/25/2013 15:44
FM0161CC-CS	680-87545-40	1AB25010.D	02/25/2013 15:59

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Lab File ID: 1AB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:42

Analysis Batch No.: 134771

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	63.5	
68	Less than 2.0 % of mass 69	0.9	(1.7)1
69	Mass 69 relative abundance	53.6	
70	Less than 2.0 % of mass 69	0.4	(0.8)1
127	10.0 - 80.0 % of mass 198	44.3	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.7	
275	10.0 - 60.0 % of mass 198	25.0	
365	Greater than 1.0 % of mass 198	3.2	
441	Present but less than mass 443	8.5	
442	Greater than 50.0 % of mass 198	67.6	
443	15.0 - 24.0 % of mass 442	10.7	(15.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134771/3	1AB22003.D	02/22/2013	11:01
	IC 660-134771/4	1AB22004.D	02/22/2013	11:16
	IC 660-134771/5	1AB22005.D	02/22/2013	11:31
	IC 660-134771/6	1AB22006.D	02/22/2013	11:47
	ICIS 660-134771/7	1AB22007.D	02/22/2013	12:02
	IC 660-134771/8	1AB22008.D	02/22/2013	12:17
	IC 660-134771/9	1AB22009.D	02/22/2013	12:32
	ICV 660-134771/10	1AB22010.D	02/22/2013	12:48

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Lab File ID: 1AB25005.D DFTPP Injection Date: 02/25/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 14:44

Analysis Batch No.: 134820

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	55.1	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	52.3	
70	Less than 2.0 % of mass 69	0.5	(0.9)1
127	10.0 - 80.0 % of mass 198	49.4	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.7	
275	10.0 - 60.0 % of mass 198	27.6	
365	Greater than 1.0 % of mass 198	4.0	
441	Present but less than mass 443	10.1	
442	Greater than 50.0 % of mass 198	68.9	
443	15.0 - 24.0 % of mass 442	13.9	(20.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134820/6	1AB25006.D	02/25/2013	14:59
FM0161BB-CS	680-87545-39	1AB25009.D	02/25/2013	15:44
FM0161CC-CS	680-87545-40	1AB25010.D	02/25/2013	15:59
FM0161M-CSD	680-87545-23	1AB25014.D	02/25/2013	17:00
FM0161N-CS	680-87545-24	1AB25015.D	02/25/2013	17:15
FM0161O-CS	680-87545-25	1AB25016.D	02/25/2013	17:30
FM0161P-CS	680-87545-26	1AB25017.D	02/25/2013	17:45
FM0161Q-CS	680-87545-27	1AB25018.D	02/25/2013	18:00
FM0161R-CS	680-87545-28	1AB25019.D	02/25/2013	18:15

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:41

Analysis Batch No.: 134776

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	42.3	
68	Less than 2.0 % of mass 69	0.6	(1.1)1
69	Mass 69 relative abundance	59.2	
70	Less than 2.0 % of mass 69	0.3	(0.4)1
127	10.0 - 80.0 % of mass 198	53.6	
197	Less than 2.0 % of mass 198	1.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	8.6	
275	10.0 - 60.0 % of mass 198	19.2	
365	Greater than 1.0 % of mass 198	2.0	
441	Present but less than mass 443	7.5	
442	Greater than 50.0 % of mass 198	52.1	
443	15.0 - 24.0 % of mass 442	8.7	(16.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134776/3	1CB22003.D	02/22/2013	11:57
	IC 660-134776/4	1CB22004.D	02/22/2013	12:16
	IC 660-134776/5	1CB22005.D	02/22/2013	12:34
	IC 660-134776/6	1CB22006.D	02/22/2013	12:53
	ICIS 660-134776/7	1CB22007.D	02/22/2013	13:11
	IC 660-134776/8	1CB22008.D	02/22/2013	13:29
	IC 660-134776/9	1CB22009.D	02/22/2013	13:48
	ICV 660-134776/10	1CB22010.D	02/22/2013	14:06
	MB 660-134712/1-A	1CB22011.D	02/22/2013	14:26
	LCS 660-134712/2-A	1CB22012.D	02/22/2013	14:45
	680-87545-A-1-B MS	1CB22014.D	02/22/2013	15:21
	680-87545-A-1-C MSD	1CB22015.D	02/22/2013	15:40
FM0161L-CS	680-87545-21	1CB22027.D	02/22/2013	19:19
FM0161M-CS	680-87545-22	1CB22028.D	02/22/2013	19:38

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Lab File ID: 1DB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:57

Analysis Batch No.: 134781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	46.9
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	46.6
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	50.9
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.9
275	10.0 - 60.0 % of mass 198	25.1
365	Greater than 1.0 % of mass 198	2.9
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	64.5
443	15.0 - 24.0 % of mass 442	13.2 (20.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134781/3	1DB22003.D	02/22/2013	12:13
	IC 660-134781/4	1DB22004.D	02/22/2013	12:35
	IC 660-134781/5	1DB22005.D	02/22/2013	12:58
	IC 660-134781/6	1DB22006.D	02/22/2013	13:21
	ICIS 660-134781/7	1DB22007.D	02/22/2013	13:43
	IC 660-134781/8	1DB22008.D	02/22/2013	14:06
	IC 660-134781/9	1DB22009.D	02/22/2013	14:28
	ICV 660-134781/10	1DB22010.D	02/22/2013	14:51
	MB 660-134730/1-A	1DB22011.D	02/22/2013	15:33
	LCS 660-134730/2-A	1DB22012.D	02/22/2013	15:56
FM0161S-CS	680-87545-29	1DB22013.D	02/22/2013	16:21
FM0161T-CS	680-87545-30	1DB22014.D	02/22/2013	16:44
FM0161U-CS	680-87545-31	1DB22015.D	02/22/2013	17:19
FM0161U-CSD	680-87545-32	1DB22016.D	02/22/2013	17:42
FM0161V-CS	680-87545-33	1DB22017.D	02/22/2013	18:04
FM0161W-CS	680-87545-34	1DB22018.D	02/22/2013	18:27
FM0161W-CS MS	680-87545-34 MS	1DB22019.D	02/22/2013	18:49
FM0161W-CS MSD	680-87545-34 MSD	1DB22020.D	02/22/2013	19:12
FM0161X-CS	680-87545-35	1DB22021.D	02/22/2013	19:34
FM0161Y-CS	680-87545-36	1DB22022.D	02/22/2013	19:57
FM0161Z-CS	680-87545-37	1DB22023.D	02/22/2013	20:19
FM0161AA-CS	680-87545-38	1DB22024.D	02/22/2013	20:42

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Sample No.: ICIS 660-134771/7 Date Analyzed: 02/22/2013 12:02

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AB22007.D Heated Purge: (Y/N) N

Calibration ID: 2759

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		991704	2.40	622858	3.42	968921	4.35
UPPER LIMIT		1983408	2.90	1245716	3.92	1937842	4.85
LOWER LIMIT		495852	1.90	311429	2.92	484461	3.85
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134771/10		1470215	2.40	948405	3.42	1446139	4.36

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Sample No.: ICIS 660-134771/7 Date Analyzed: 02/22/2013 12:02

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AB22007.D Heated Purge: (Y/N) N

Calibration ID: 2759

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		842371	6.37	860097	7.46		
UPPER LIMIT		1684742	6.87	1720194	7.96		
LOWER LIMIT		421186	5.87	430049	6.96		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134771/10		1373239	6.37	1363331	7.46		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Sample No.: CCVIS 660-134820/6 Date Analyzed: 02/25/2013 14:59

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AB25006.D Heated Purge: (Y/N) N

Calibration ID: 2759

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		843764	2.38	532930	3.40	749974	4.34
UPPER LIMIT		1687528	2.88	1065860	3.90	1499948	4.84
LOWER LIMIT		421882	1.88	266465	2.90	374987	3.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87545-39	FM0161BB-CS	959743	2.38	621077	3.41	849042	4.34
680-87545-40	FM0161CC-CS	921940	2.38	622880	3.41	902898	4.35
680-87545-23	FM0161M-CSD	691094	2.39	488910	3.42	684403	4.36
680-87545-24	FM0161N-CS	659681	2.40	488638	3.42	687401	4.36
680-87545-25	FM0161O-CS	717800	2.39	522231	3.42	730678	4.36
680-87545-26	FM0161P-CS	738647	2.39	531525	3.42	741375	4.37
680-87545-27	FM0161Q-CS	757645	2.39	532970	3.42	771545	4.36
680-87545-28	FM0161R-CS	731146	2.39	558723	3.42	782680	4.36

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Sample No.: CCVIS 660-134820/6 Date Analyzed: 02/25/2013 14:59

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AB25006.D Heated Purge: (Y/N) N

Calibration ID: 2759

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		646044	6.35	653985	7.44		
UPPER LIMIT		1292088	6.85	1307970	7.94		
LOWER LIMIT		323022	5.85	326993	6.94		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87545-39	FM0161BB-CS	445444	6.36	618747	7.45		
680-87545-40	FM0161CC-CS	437870	6.36	622313	7.46		
680-87545-23	FM0161M-CSD	686134	6.39	909862	7.49		
680-87545-24	FM0161N-CS	618560	6.39	824749	7.49		
680-87545-25	FM0161O-CS	674782	6.39	832896	7.49		
680-87545-26	FM0161P-CS	678941	6.39	886714	7.49		
680-87545-27	FM0161Q-CS	669318	6.39	851515	7.49		
680-87545-28	FM0161R-CS	640652	6.39	803299	7.49		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1215005	3.80	932815	4.89	1859738	5.85
UPPER LIMIT		2430010	4.30	1865630	5.39	3719476	6.35
LOWER LIMIT		607503	3.30	466408	4.39	929869	5.35
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134776/10		1383069	3.80	1075067	4.89	2141313	5.85
MB 660-134712/1-A		1406557	3.80	1068093	4.89	2055482	5.85
LCS 660-134712/2-A		1346104	3.80	1065240	4.89	2030307	5.85
680-87545-A-1-B MS		1521773	3.80	1223502	4.89	2332357	5.85
680-87545-A-1-C MSD		1546272	3.80	1227946	4.89	2308829	5.85
680-87545-21	FM0161L-CS	1672480	3.80	1292971	4.89	2448839	5.85
680-87545-22	FM0161M-CS	1690434	3.80	1349447	4.89	2512008	5.85

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2424157	7.80	2664188	9.02		
UPPER LIMIT		4848314	8.30	5328376	9.52		
LOWER LIMIT		1212079	7.30	1332094	8.52		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134776/10		2766374	7.80	3034368	9.02		
MB 660-134712/1-A		2590099	7.80	2734541	9.02		
LCS 660-134712/2-A		2618435	7.80	2799637	9.02		
680-87545-A-1-B MS		2866063	7.80	2845732	9.02		
680-87545-A-1-C MSD		2831067	7.80	2793829	9.02		
680-87545-21	FM0161L-CS	2694444	7.80	2554691	9.02		
680-87545-22	FM0161M-CS	2765490	7.80	2619811	9.02		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N

Calibration ID: 2761

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2851402	6.18	1685266	7.86	2758746	9.12
UPPER LIMIT		5702804	6.68	3370532	8.36	5517492	9.62
LOWER LIMIT		1425701	5.68	842633	7.36	1379373	8.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3227519	6.19	1973397	7.86	3226971	9.12
MB 660-134730/1-A		3552318	6.18	2143310	7.86	3483854	9.12
LCS 660-134730/2-A		3855597	6.19	2318262	7.86	3782158	9.12
680-87545-29	FM0161S-CS	3423039	6.18	2061377	7.86	3414055	9.12
680-87545-30	FM0161T-CS	4112027	6.18	2489778	7.86	4088181	9.12
680-87545-31	FM0161U-CS	3856105	6.19	2368393	7.86	3838409	9.12
680-87545-32	FM0161U-CSD	3508005	6.18	2097004	7.86	3461867	9.12
680-87545-33	FM0161V-CS	3589110	6.18	2186324	7.86	3586343	9.12
680-87545-34	FM0161W-CS	3300391	6.19	1963107	7.86	3178835	9.12
680-87545-34 MS	FM0161W-CS MS	3316074	6.19	1973715	7.86	3247500	9.12
680-87545-34 MSD	FM0161W-CS MSD	3335464	6.19	2015306	7.86	3252717	9.12
680-87545-35	FM0161X-CS	3328006	6.19	2006024	7.86	3288050	9.12
680-87545-36	FM0161Y-CS	3271921	6.19	1974289	7.86	3213476	9.12
680-87545-37	FM0161Z-CS	3512453	6.19	2108753	7.86	3491634	9.12
680-87545-38	FM0161AA-CS	3450138	6.19	2050867	7.86	3358337	9.12

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N

Calibration ID: 2761

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2741766	11.46	2903096	13.33		
UPPER LIMIT		5483532	11.96	5806192	13.83		
LOWER LIMIT		1370883	10.96	1451548	12.83		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3262056	11.46	3389756	13.34		
MB 660-134730/1-A		3539719	11.46	3703706	13.35		
LCS 660-134730/2-A		3839785	11.46	4000393	13.34		
680-87545-29	FM0161S-CS	3439984	11.46	3535971	13.35		
680-87545-30	FM0161T-CS	4070017	11.47	4333402	13.35		
680-87545-31	FM0161U-CS	3891881	11.47	4070211	13.36		
680-87545-32	FM0161U-CSD	3454345	11.47	3610604	13.35		
680-87545-33	FM0161V-CS	3597784	11.47	3852814	13.35		
680-87545-34	FM0161W-CS	3202553	11.46	3351175	13.35		
680-87545-34 MS	FM0161W-CS MS	3275874	11.46	3474248	13.35		
680-87545-34 MSD	FM0161W-CS MSD	3255461	11.46	3409206	13.35		
680-87545-35	FM0161X-CS	3253074	11.46	3426169	13.35		
680-87545-36	FM0161Y-CS	3182758	11.46	3358420	13.35		
680-87545-37	FM0161Z-CS	3446326	11.47	3623917	13.36		
680-87545-38	FM0161AA-CS	3332589	11.47	3501457	13.36		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161L-CS | Lab Sample ID: 680-87545-21

Matrix: Solid | Lab File ID: 1CB22027.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 09:48

Extract. Method: 3546 | Date Extracted: 02/21/2013 12:14

Sample wt/vol: 15.09(g) | Date Analyzed: 02/22/2013 19:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 0.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134776 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	7.8	J	40	5.0
120-12-7	Anthracene	10		8.4	4.2
56-55-3	Benzo[a]anthracene	64		8.0	3.9
50-32-8	Benzo[a]pyrene	58		10	5.2
205-99-2	Benzo[b]fluoranthene	110		12	6.1
191-24-2	Benzo[g,h,i]perylene	40		20	4.4
207-08-9	Benzo[k]fluoranthene	27		8.0	3.6
218-01-9	Chrysene	77		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	11	J	20	4.1
206-44-0	Fluoranthene	99		20	4.0
86-73-7	Fluorene	8.0	J	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	33		20	7.1
90-12-0	1-Methylnaphthalene	44		40	4.4
91-57-6	2-Methylnaphthalene	60		40	7.1
91-20-3	Naphthalene	60		40	4.4
85-01-8	Phenanthrene	73		8.0	3.9
129-00-0	Pyrene	86		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22027.D
Lab Smp Id: 680-87545-A-21-A Client Smp ID: FM0161L-CS
Inj Date : 22-FEB-2013 19:19
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87545-a-21-a
Misc Info : 680-87545-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	0.47619	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1672480	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1292971	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2448839	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	328129	8.87476	590.9356
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2694444	40.0000	
* 23 Perylene-d12	264	9.021	9.016	(1.000)	2554691	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	39232	0.90104	59.9965
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	26374	0.90808	60.4654
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17291	0.65368	43.5258
5 Acenaphthylene	152	4.810	4.804	(0.983)	6068	0.11640	7.7509
9 Fluorene	166	5.233	5.234	(1.070)	4901	0.11960	7.9640(Q)
11 Phenanthrene	178	5.862	5.863	(1.003)	77486	1.09429	72.8643
12 Anthracene	178	5.898	5.898	(1.009)	10909	0.15753	10.4891
13 Carbazole	167	6.004	6.004	(1.027)	11136	0.18090	12.0452(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.704	(1.147)	115029	1.48338	98.7726
16 Pyrene	202	6.874	6.875	(0.882)	93188	1.28696	85.6937
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	74956	0.96386	64.1793
19 Chrysene	228	7.815	7.822	(1.002)	90117	1.15794	77.1027
20 Benzo(b)fluoranthene	252	8.656	8.657	(0.960)	106584	1.59644	106.3007(M)
21 Benzo(k)fluoranthene	252	8.674	8.680	(0.962)	28247	0.41243	27.4621(QMH)
22 Benzo(a)pyrene	252	8.956	8.963	(0.993)	56358	0.86906	57.8674
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.239	(1.134)	30554	0.50085	33.3493(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.257	(1.136)	9947	0.16670	11.0996(M)
26 Benzo(g,h,i)perylene	276	10.597	10.610	(1.175)	38659	0.60579	40.3369(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB22027.D

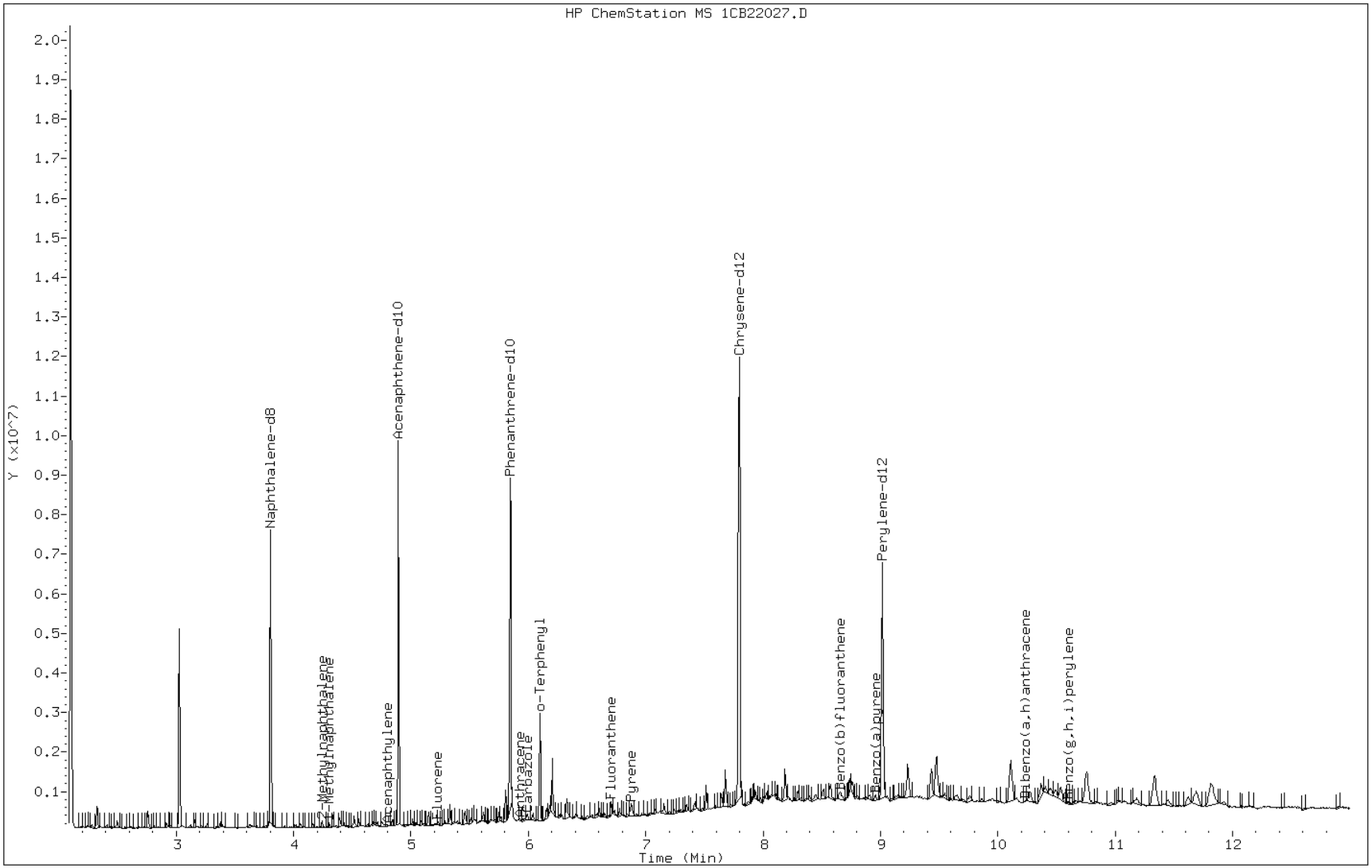
Date: 22-FEB-2013 19:19

Client ID: FM0161L-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a

Operator: SCC



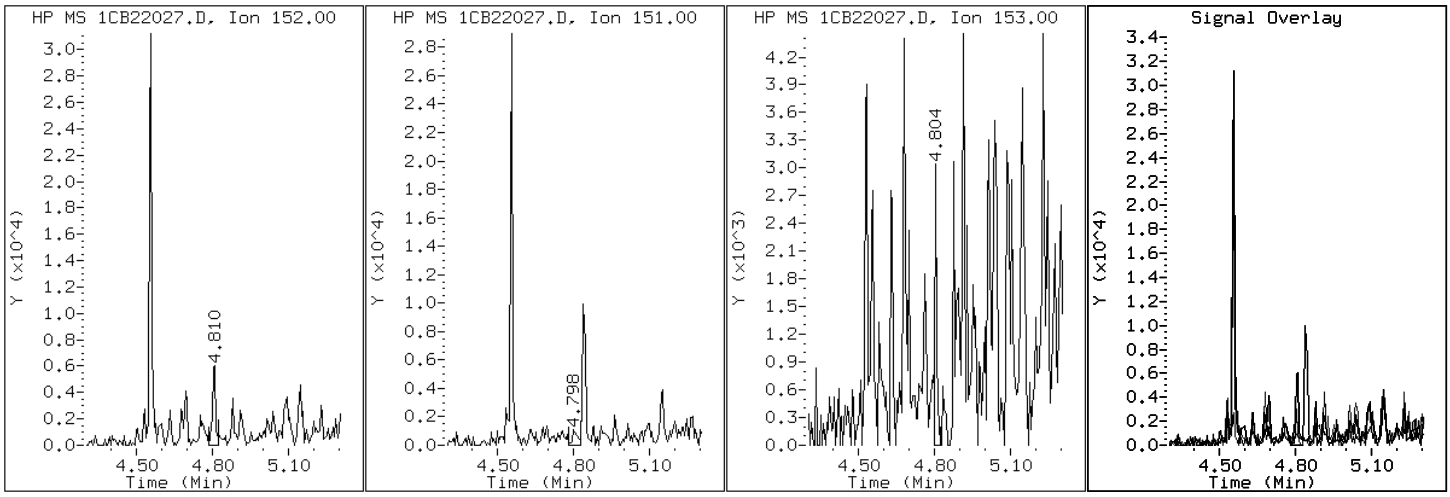
Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

Client ID: FM0161L-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a Operator: SCC

5 Acenaphthylene



Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

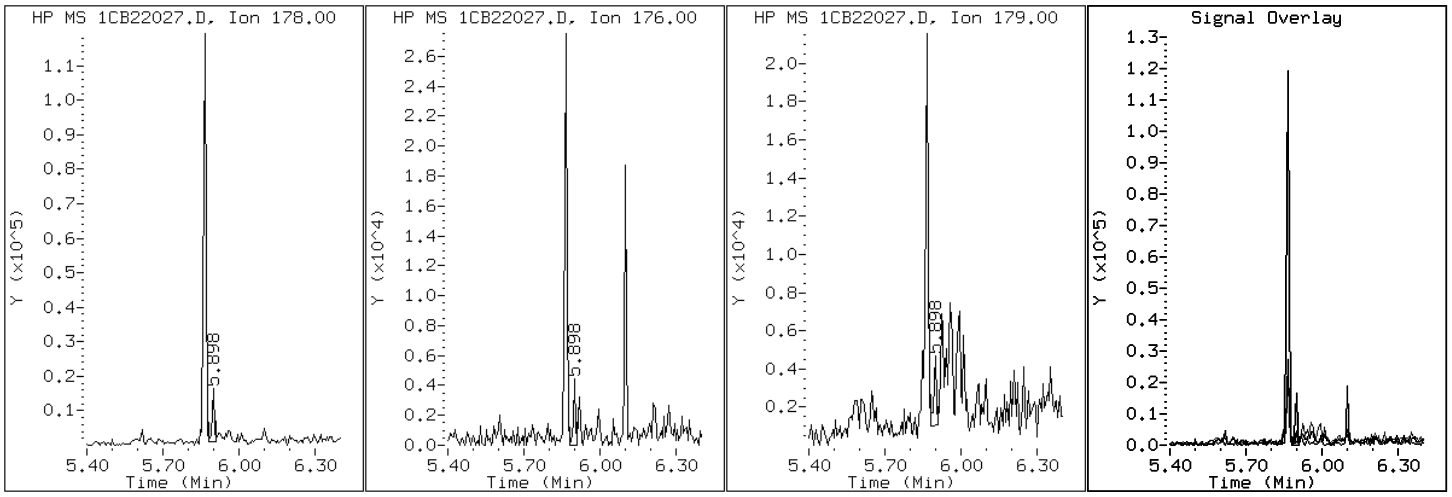
Client ID: FM0161L-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a

Operator: SCC

12 Anthracene



Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

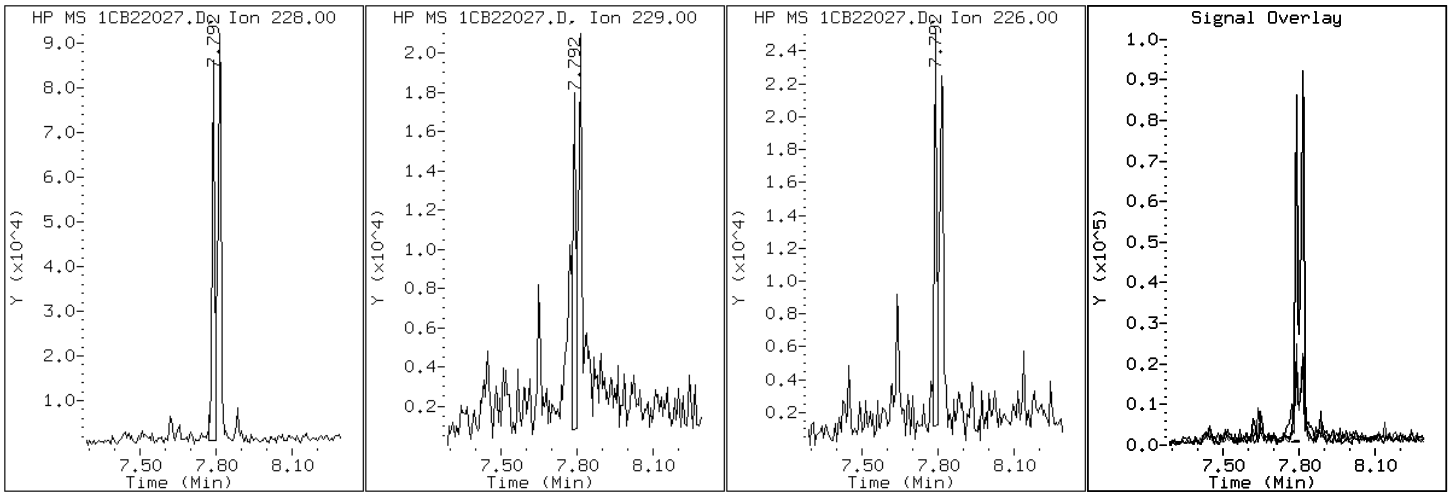
Client ID: FM0161L-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a

Operator: SCC

17 Benzo(a)anthracene



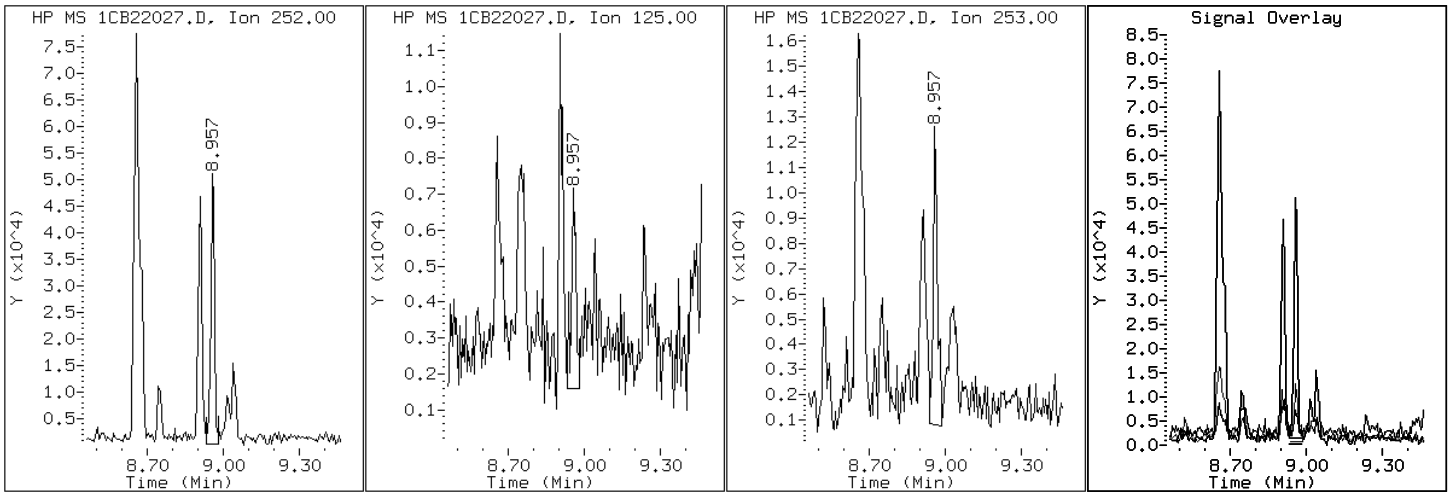
Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

Client ID: FM0161L-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a Operator: SCC

22 Benzo(a)pyrene



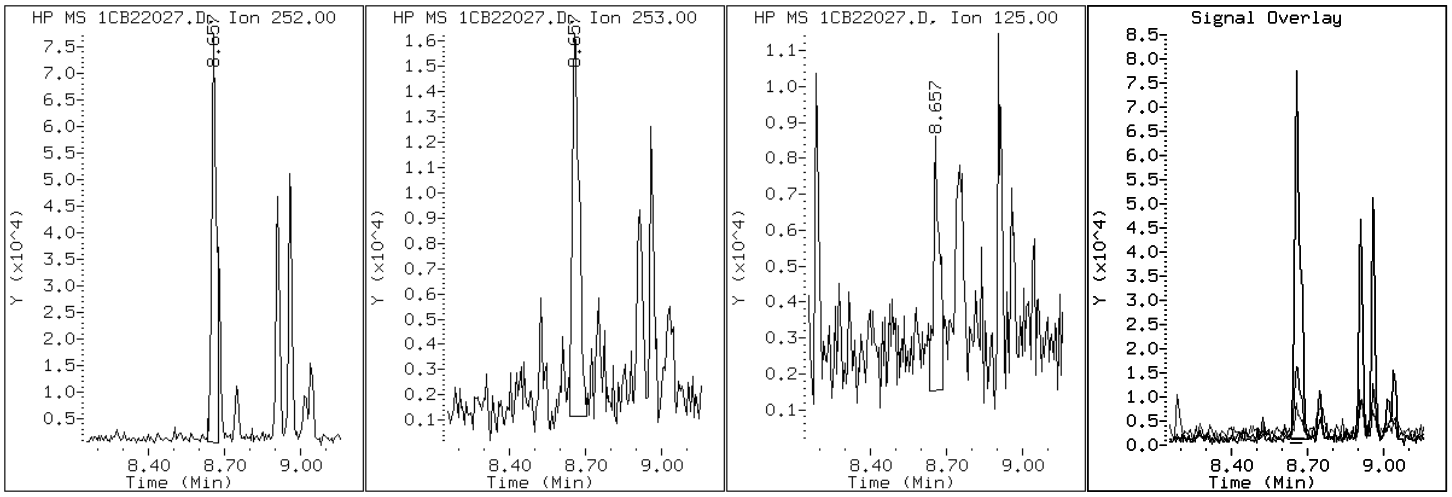
Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

Client ID: FM0161L-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a Operator: SCC

20 Benzo(b)fluoranthene



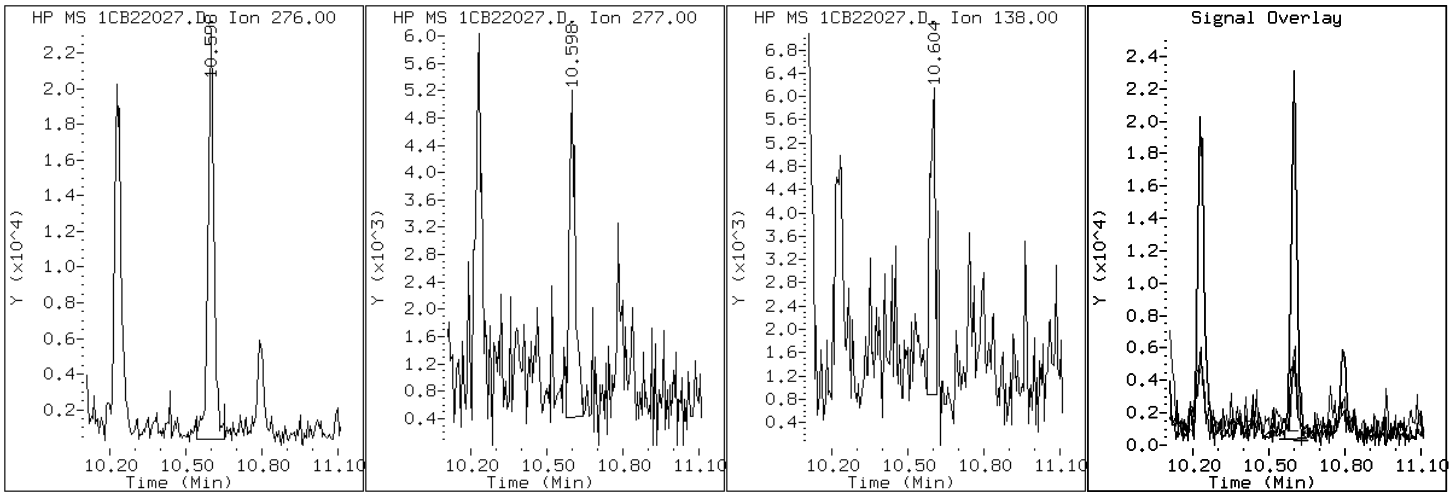
Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

Client ID: FM0161L-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

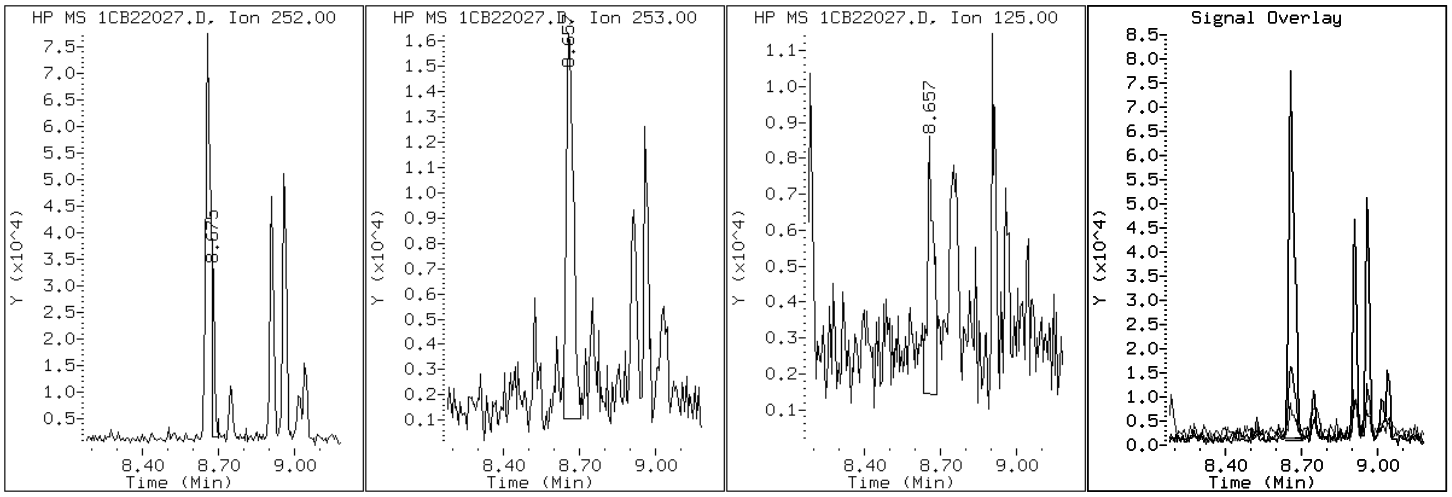
Client ID: FM0161L-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

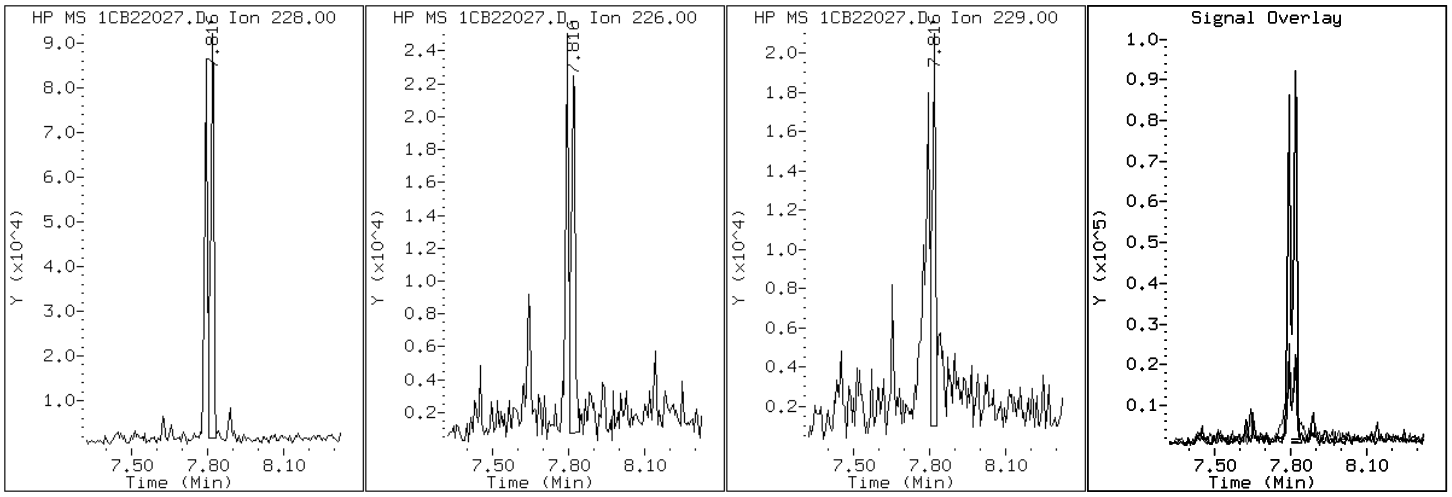
Client ID: FM0161L-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a

Operator: SCC

19 Chrysene



Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

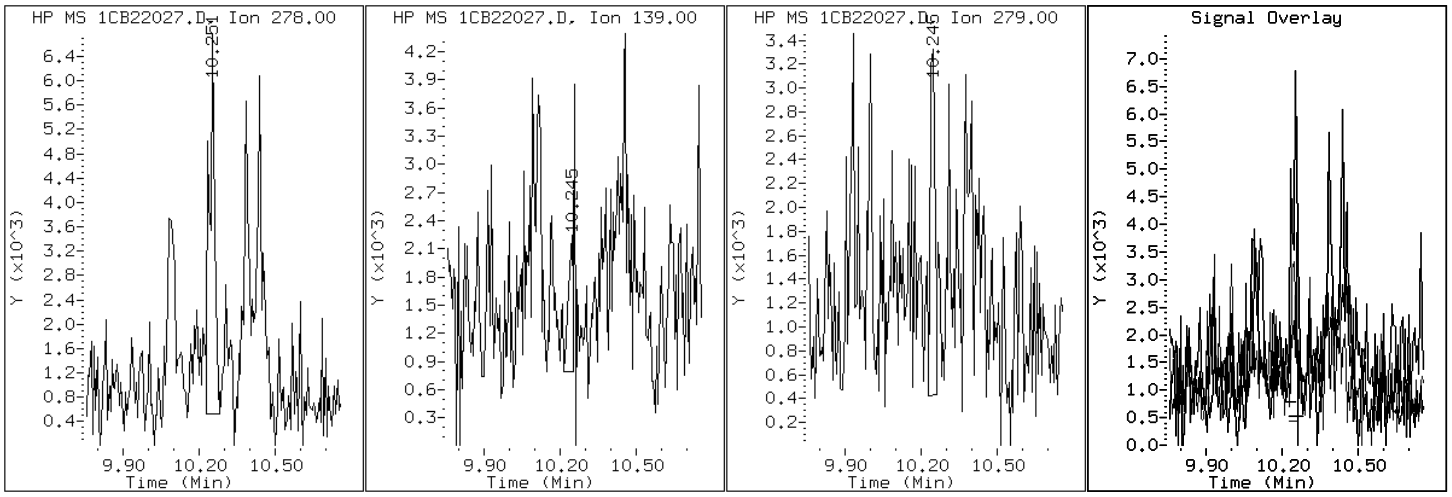
Client ID: FM0161L-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a

Operator: SCC

25 Dibenzo(a,h)anthracene



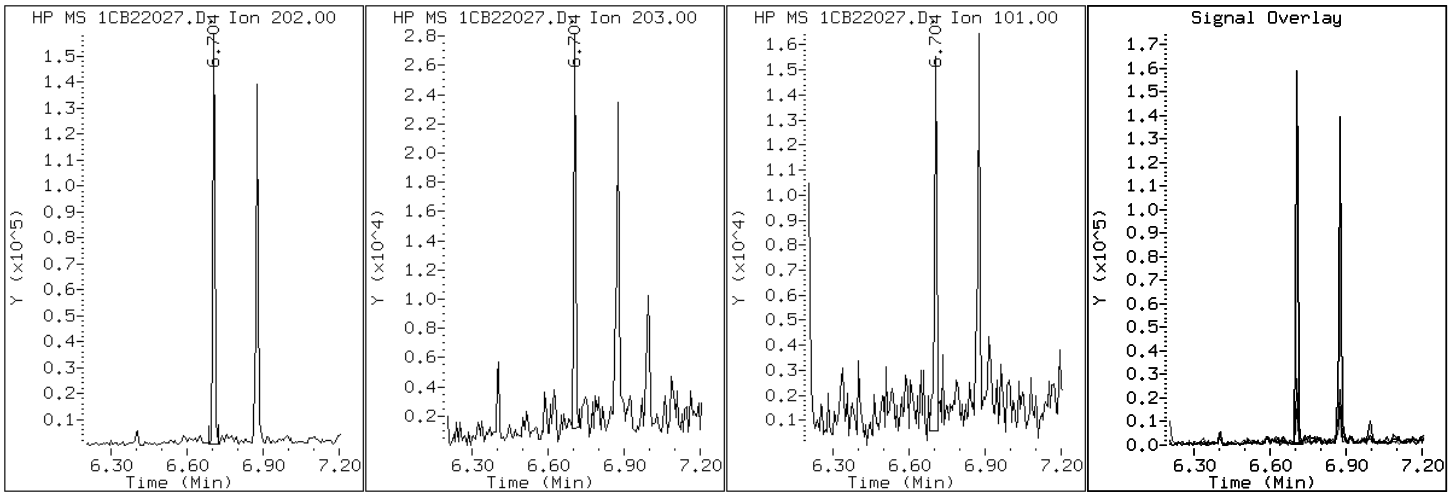
Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

Client ID: FM0161L-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a Operator: SCC

15 Fluoranthene



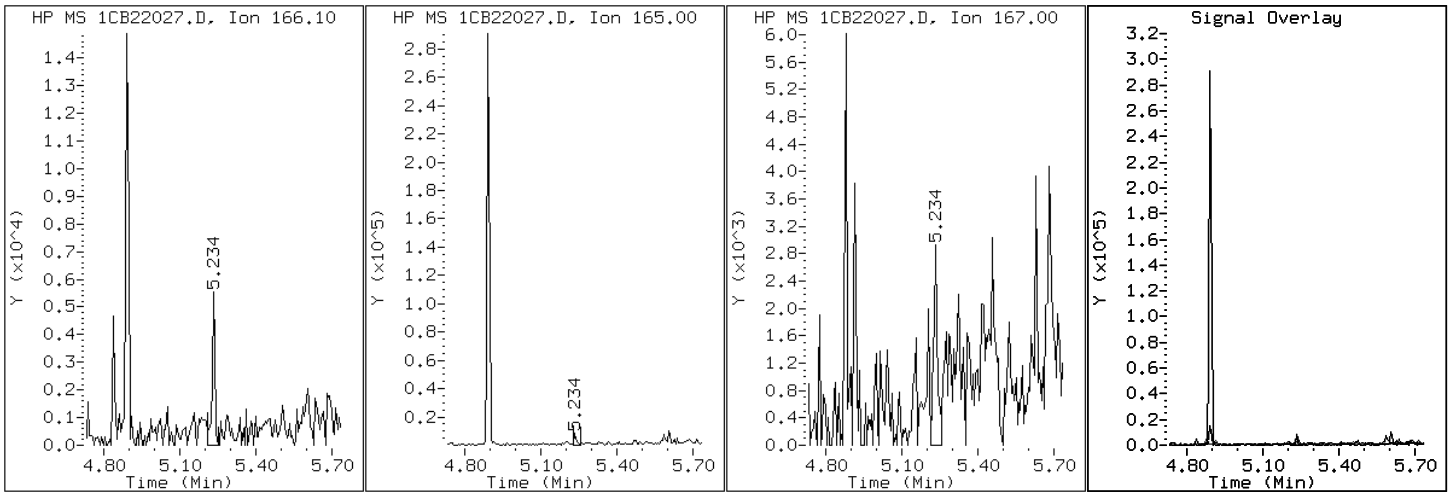
Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

Client ID: FM0161L-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a Operator: SCC

9 Fluorene



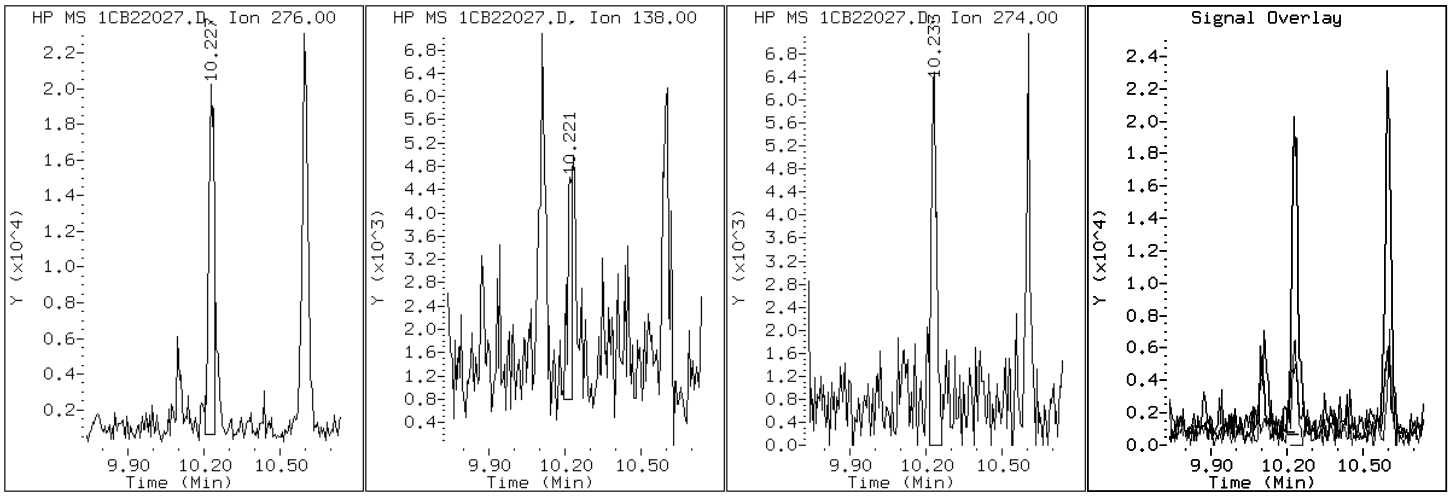
Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

Client ID: FM0161L-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a Operator: SCC

24 Indeno(1,2,3-cd)pyrene



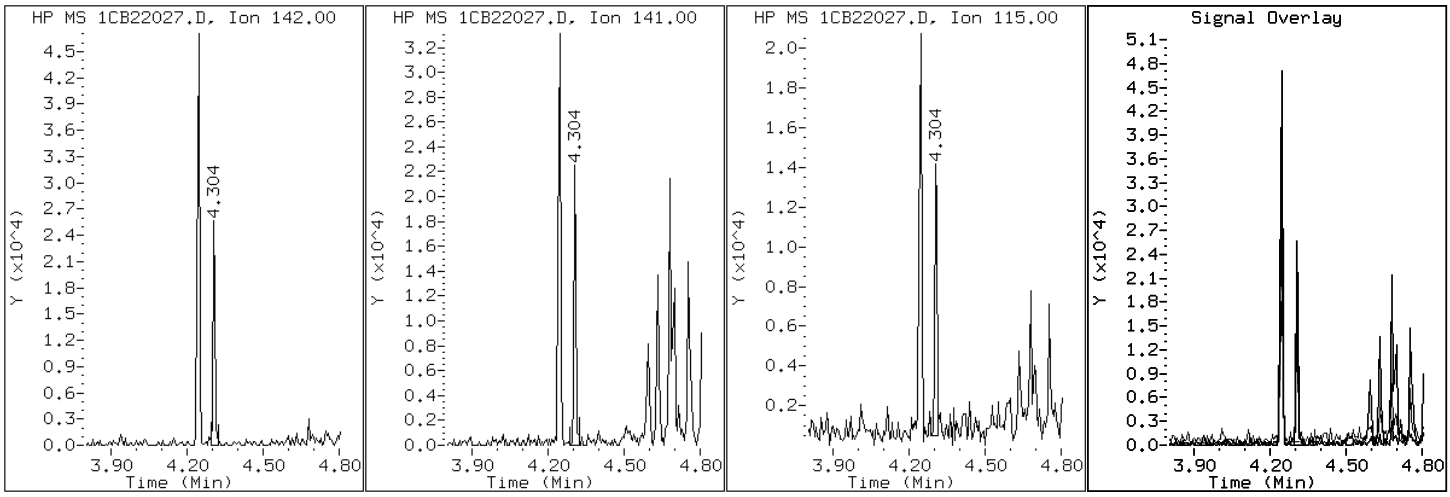
Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

Client ID: FM0161L-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a Operator: SCC

4 1-Methylnaphthalene



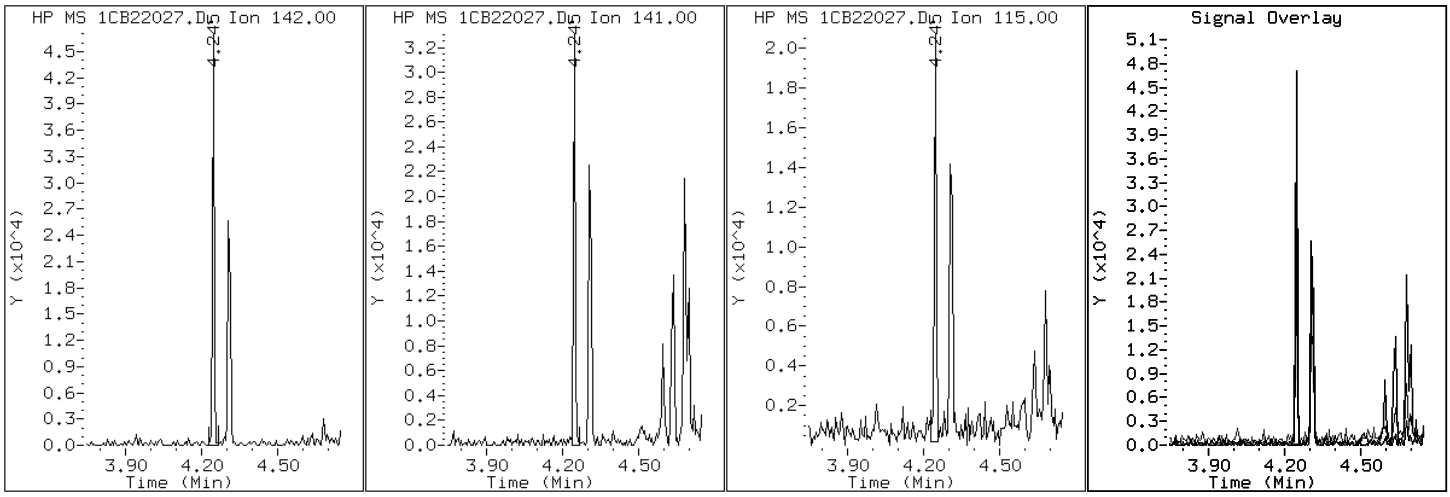
Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

Client ID: FM0161L-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

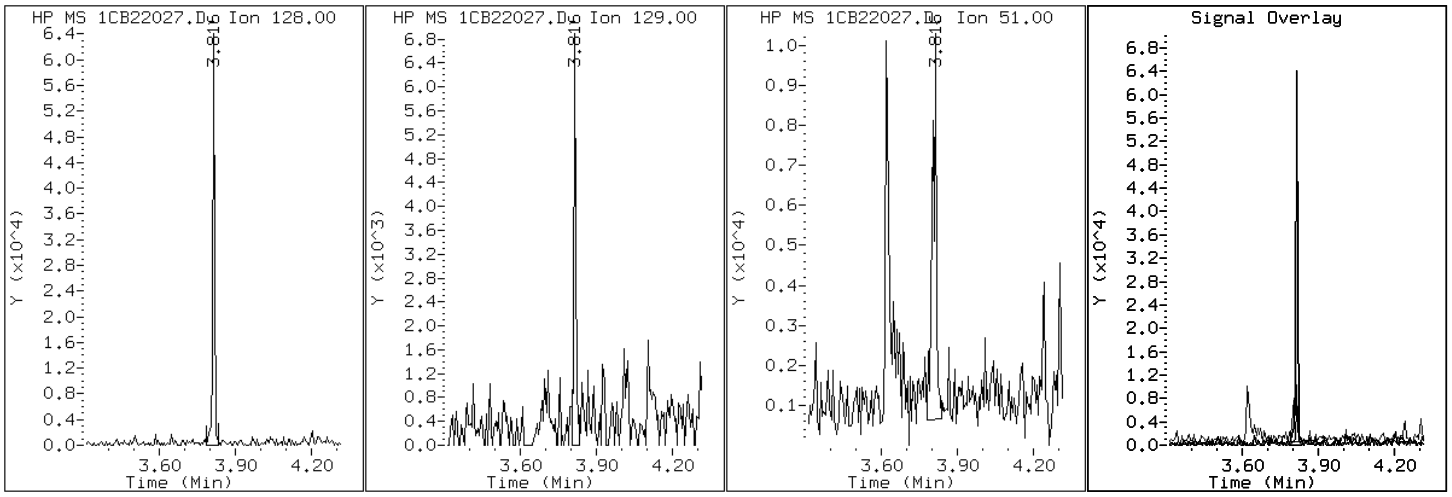
Client ID: FM0161L-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a

Operator: SCC

2 Naphthalene



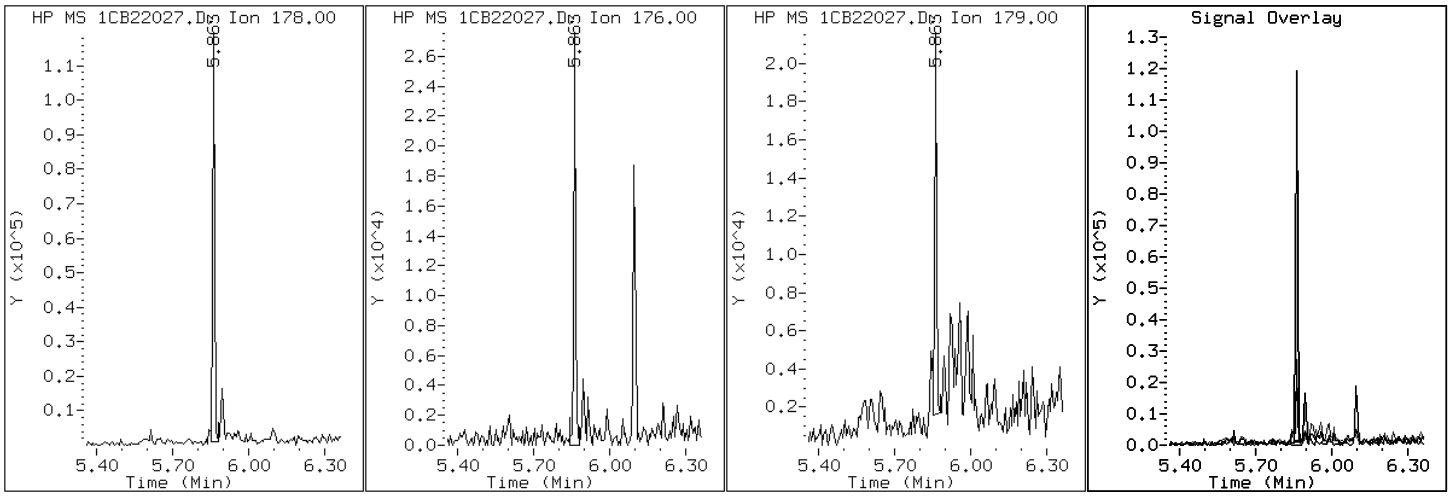
Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

Client ID: FM0161L-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a Operator: SCC

11 Phenanthrene



Data File: 1CB22027.D

Date: 22-FEB-2013 19:19

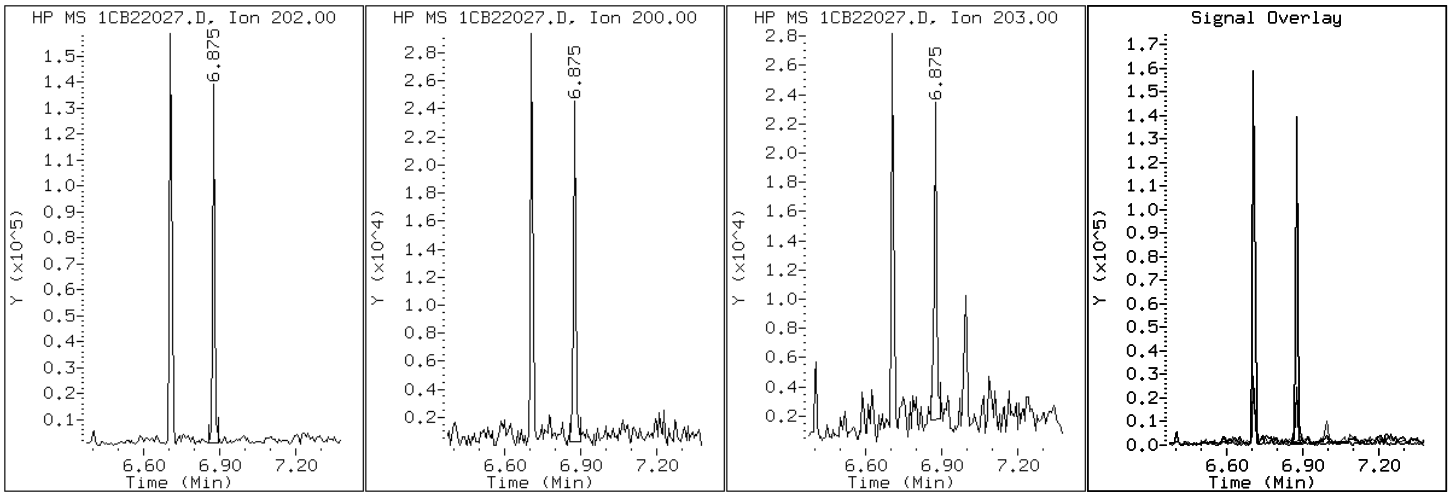
Client ID: FM0161L-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-21-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB22027.D
Inj. Date and Time: 22-FEB-2013 19:19
Instrument ID: BSMC5973.i
Client ID: FM0161L-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

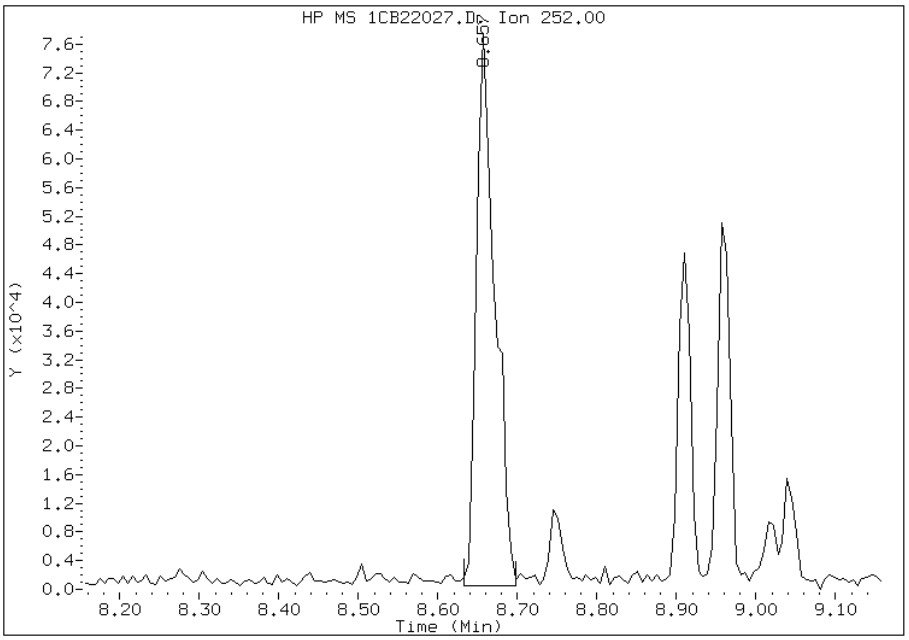
Processing Integration Results

RT: 8.66

Response: 124749

Amount: 2

Conc: 124



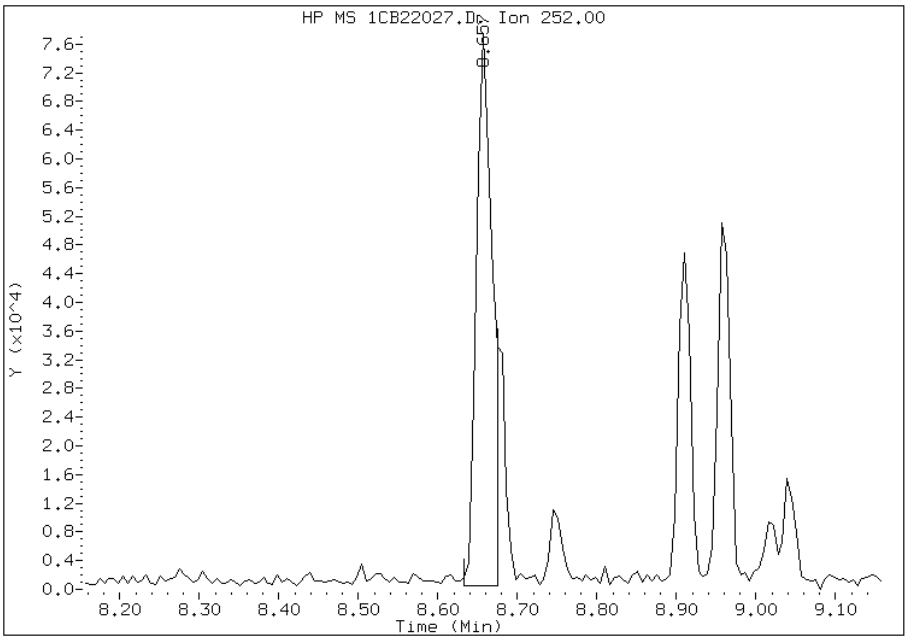
Manual Integration Results

RT: 8.66

Response: 106584

Amount: 2

Conc: 106



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 11:40
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB22027.D
Inj. Date and Time: 22-FEB-2013 19:19
Instrument ID: BSMC5973.i
Client ID: FM0161L-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/26/2013

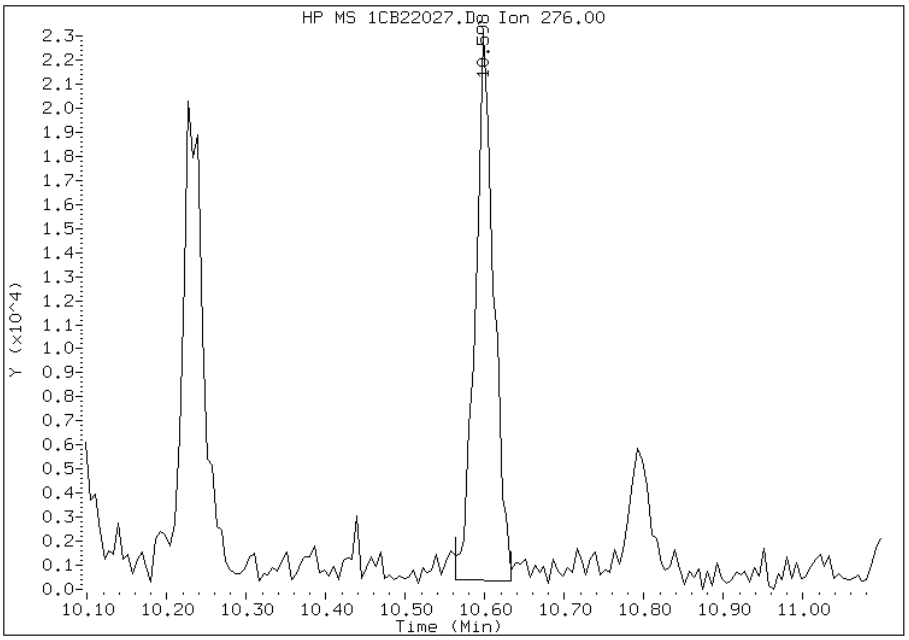
Processing Integration Results

RT: 10.60

Response: 36845

Amount: 1

Conc: 38



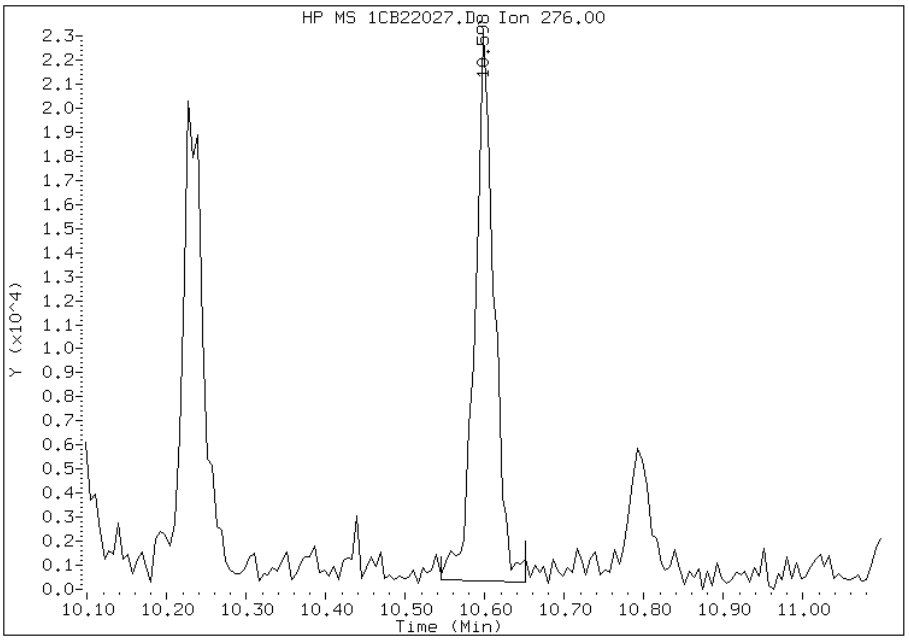
Manual Integration Results

RT: 10.60

Response: 38659

Amount: 1

Conc: 40



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 11:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB22027.D
Inj. Date and Time: 22-FEB-2013 19:19
Instrument ID: BSMC5973.i
Client ID: FM0161L-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

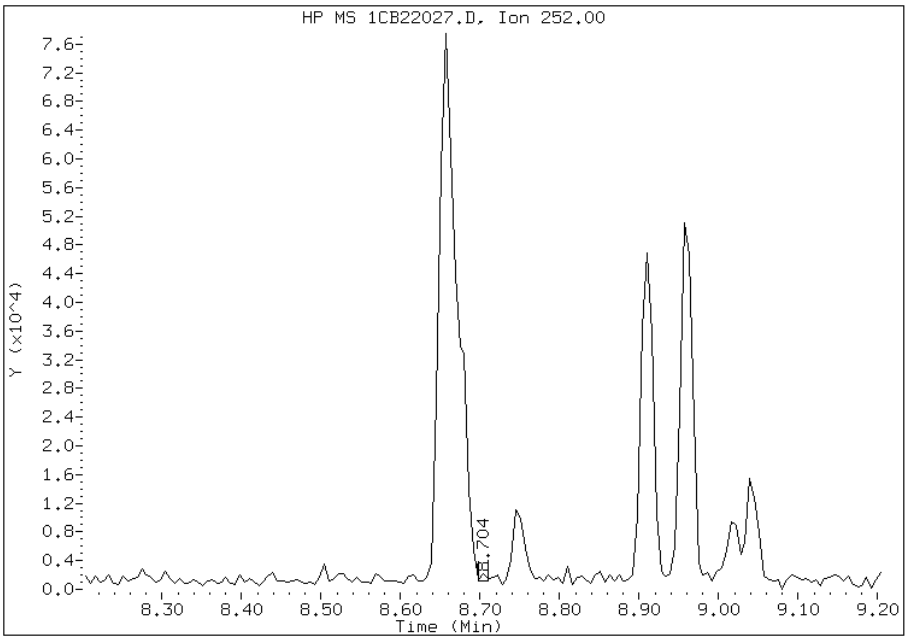
Processing Integration Results

RT: 8.70

Response: 555

Amount: 0

Conc: 1



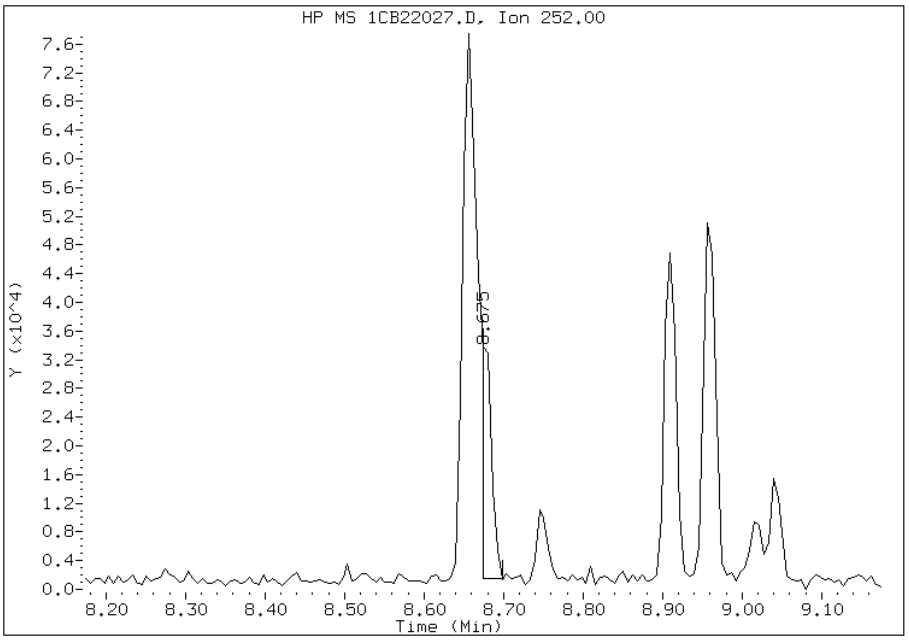
Manual Integration Results

RT: 8.67

Response: 28247

Amount: 0

Conc: 27



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 11:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB22027.D
Inj. Date and Time: 22-FEB-2013 19:19
Instrument ID: BSMC5973.i
Client ID: FM0161L-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/26/2013

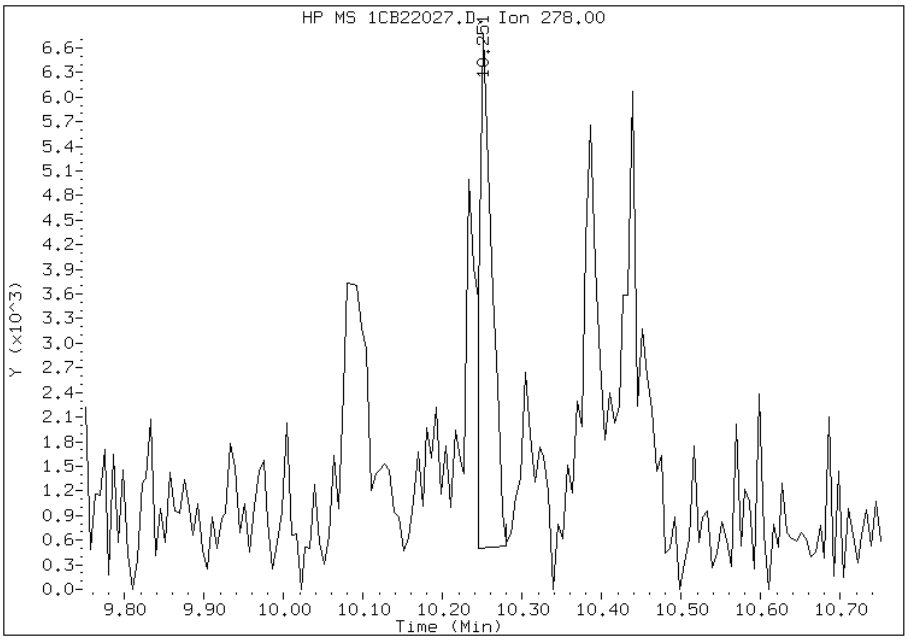
Processing Integration Results

RT: 10.25

Response: 6887

Amount: 0

Conc: 8



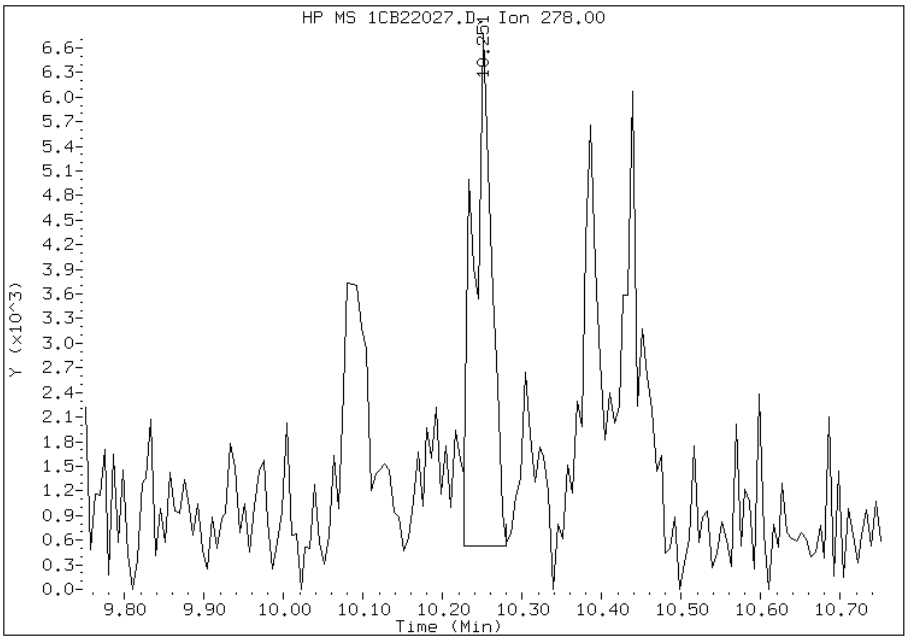
Manual Integration Results

RT: 10.25

Response: 9947

Amount: 0

Conc: 11



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 11:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB22027.D
Inj. Date and Time: 22-FEB-2013 19:19
Instrument ID: BSMC5973.i
Client ID: FM0161L-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

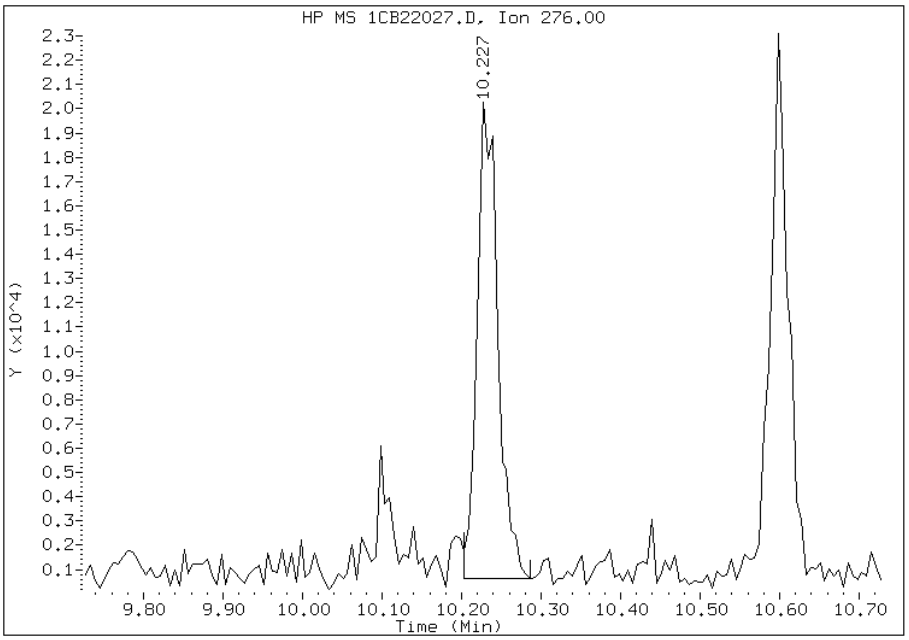
Processing Integration Results

RT: 10.23

Response: 35398

Amount: 1

Conc: 39



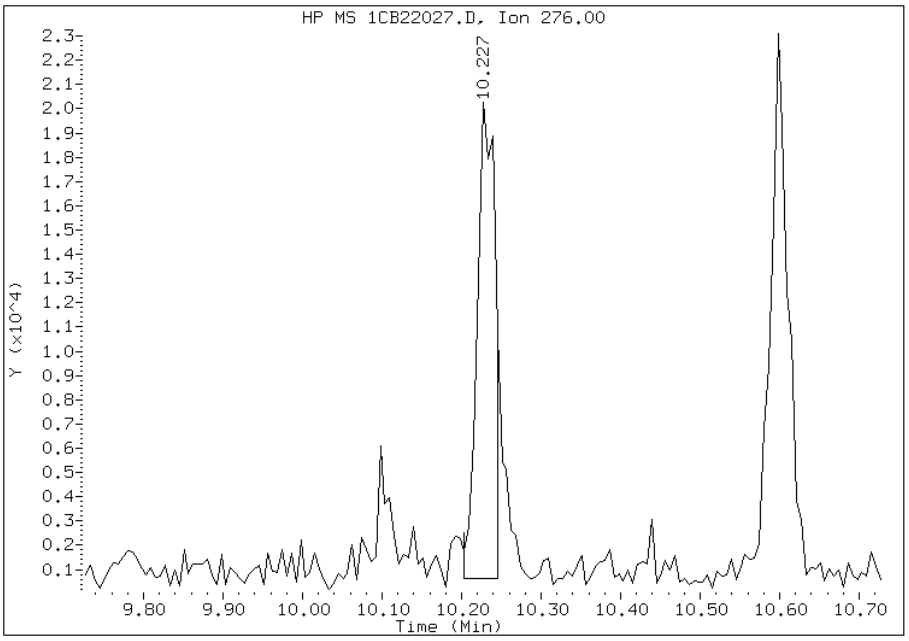
Manual Integration Results

RT: 10.23

Response: 30554

Amount: 1

Conc: 33



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 11:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161M-CS | Lab Sample ID: 680-87545-22

Matrix: Solid | Lab File ID: 1CB22028.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 09:55

Extract. Method: 3546 | Date Extracted: 02/21/2013 12:14

Sample wt/vol: 15.05(g) | Date Analyzed: 02/22/2013 19:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 2.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134776 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	12	J	41	5.1
120-12-7	Anthracene	60		8.6	4.3
56-55-3	Benzo[a]anthracene	240		8.2	4.0
50-32-8	Benzo[a]pyrene	210		11	5.3
205-99-2	Benzo[b]fluoranthene	290		12	6.2
191-24-2	Benzo[g,h,i]perylene	120		20	4.5
207-08-9	Benzo[k]fluoranthene	170		8.2	3.7
218-01-9	Chrysene	250		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	40		20	4.2
206-44-0	Fluoranthene	460		20	4.1
86-73-7	Fluorene	19	J	20	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	110		20	7.2
90-12-0	1-Methylnaphthalene	51		41	4.5
91-57-6	2-Methylnaphthalene	48		41	7.2
91-20-3	Naphthalene	58		41	4.5
85-01-8	Phenanthrene	270		8.2	4.0
129-00-0	Pyrene	430		20	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22028.D
Lab Smp Id: 680-87545-A-22-A Client Smp ID: FM0161M-CS
Inj Date : 22-FEB-2013 19:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87545-a-22-a
Misc Info : 680-87545-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	2.339	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1690434	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1349447	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.845	(1.000)	2512008	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.042)	343416	9.05465	616.0482
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2765490	40.0000	
* 23 Perylene-d12	264	9.021	9.016	(1.000)	2619811	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	37612	0.85466	58.1479
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	20632	0.70283	47.8183
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	20220	0.75629	51.4553
5 Acenaphthylene	152	4.804	4.804	(0.982)	9379	0.17239	11.7288
9 Fluorene	166	5.233	5.234	(1.070)	11666	0.27278	18.5592
11 Phenanthrene	178	5.863	5.863	(1.002)	291571	4.01413	273.1080
12 Anthracene	178	5.898	5.898	(1.008)	62813	0.88422	60.1594
13 Carbazole	167	6.004	6.004	(1.026)	26440	0.41870	28.4870

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.704	(1.146)	538976	6.77570	460.9964
16 Pyrene	202	6.874	6.875	(0.882)	468650	6.30596	429.0366
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	285738	3.57990	243.5642
19 Chrysene	228	7.821	7.822	(1.003)	289443	3.62359	246.5372
20 Benzo(b)fluoranthene	252	8.656	8.657	(0.960)	293397	4.28533	291.5598(M)
21 Benzo(k)fluoranthene	252	8.668	8.680	(0.961)	176431	2.51201	170.9091(M)
22 Benzo(a)pyrene	252	8.962	8.963	(0.993)	206725	3.10854	211.4945
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.239	(1.134)	99414	1.58910	108.1172(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.257	(1.136)	36384	0.59458	40.4535
26 Benzo(g,h,i)perylene	276	10.603	10.610	(1.175)	116923	1.78664	121.5572

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22028.D

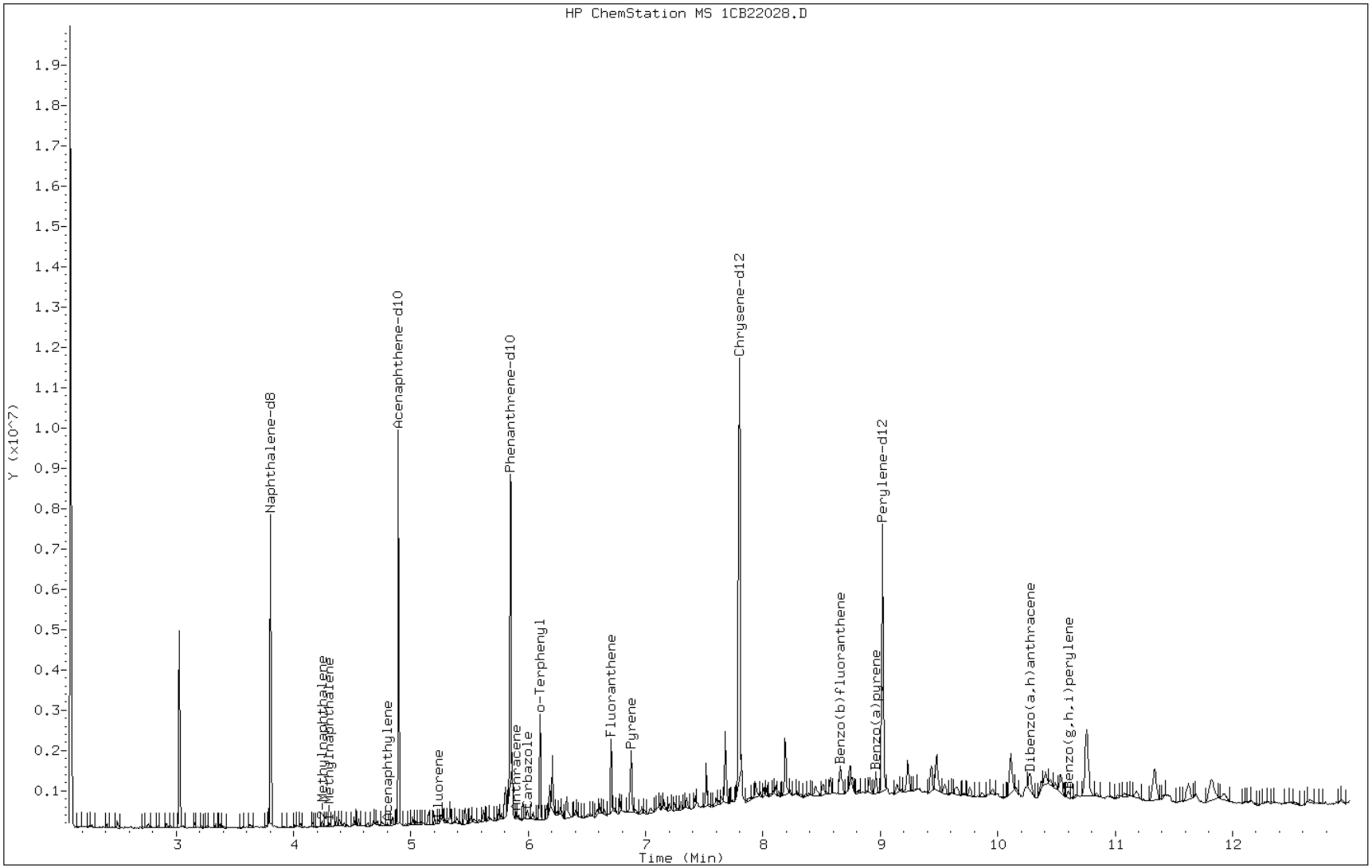
Date: 22-FEB-2013 19:38

Client ID: FM0161M-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a

Operator: SCC



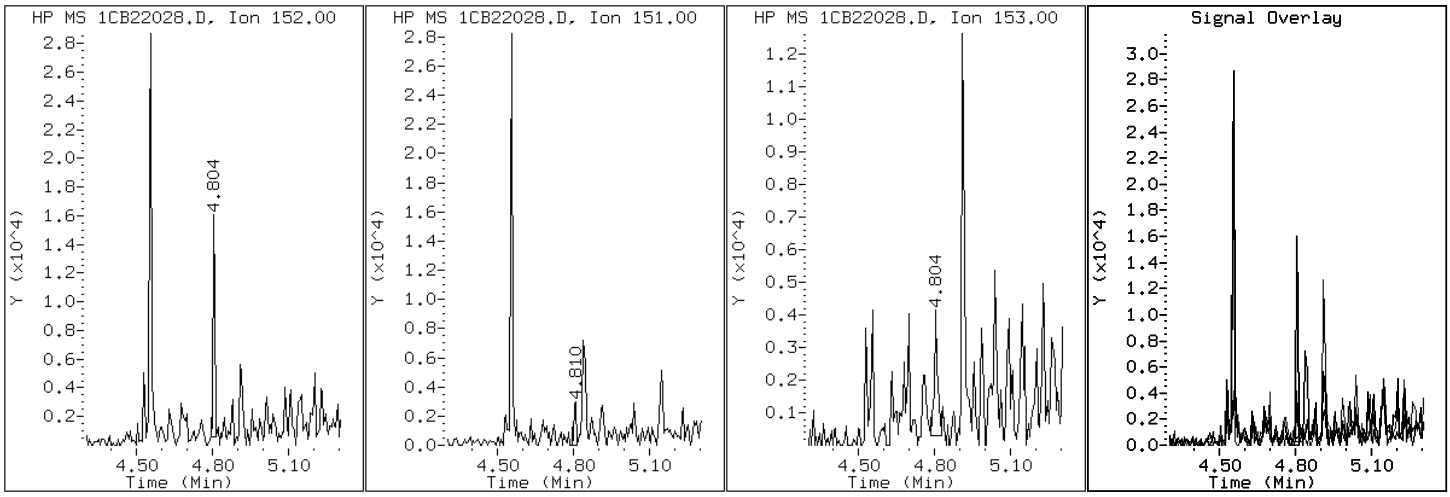
Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

Client ID: FM0161M-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a Operator: SCC

5 Acenaphthylene



Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

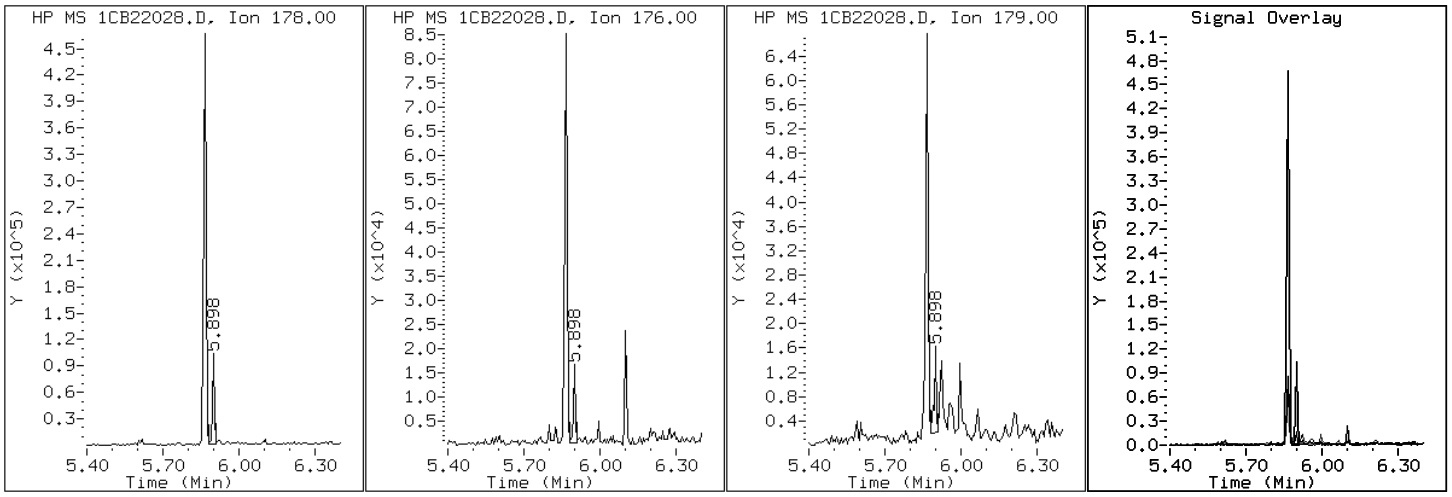
Client ID: FM0161M-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a

Operator: SCC

12 Anthracene



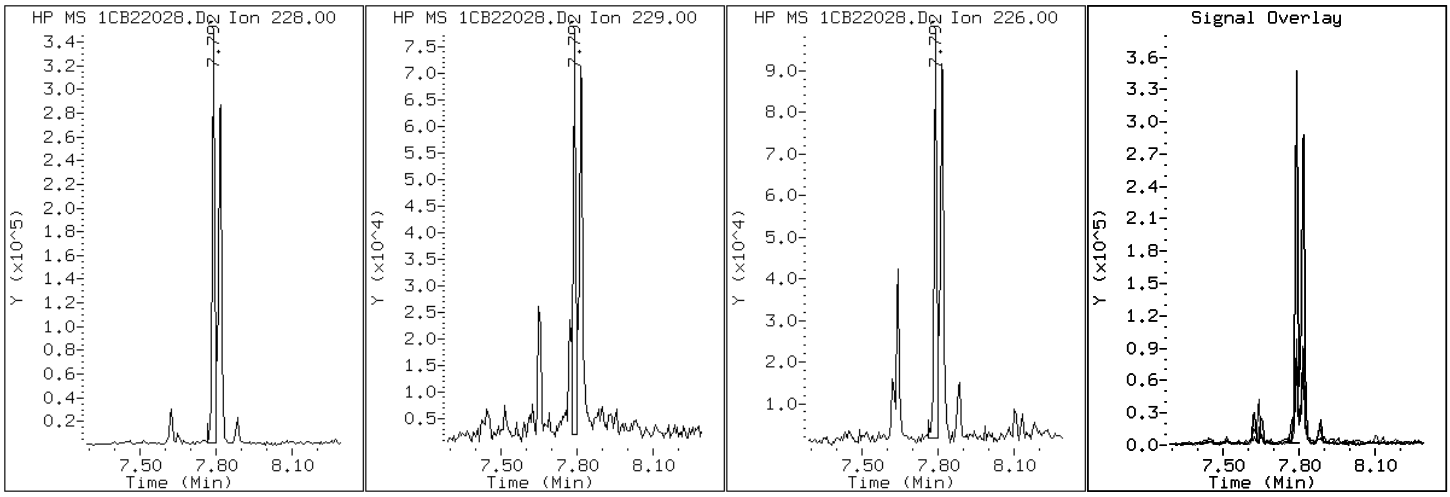
Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

Client ID: FM0161M-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

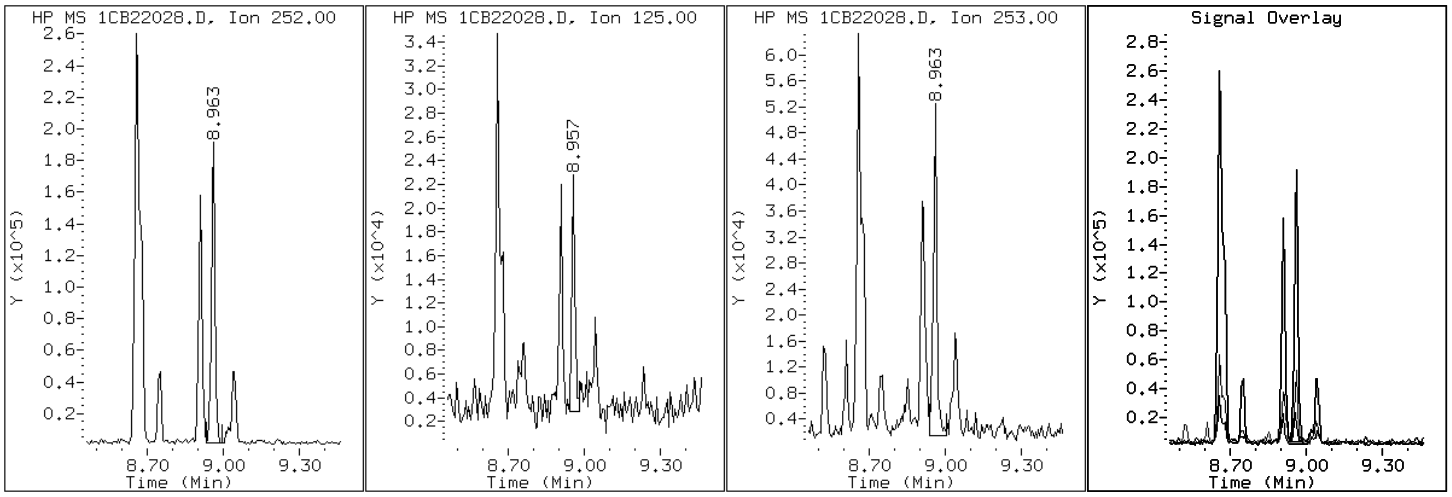
Client ID: FM0161M-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

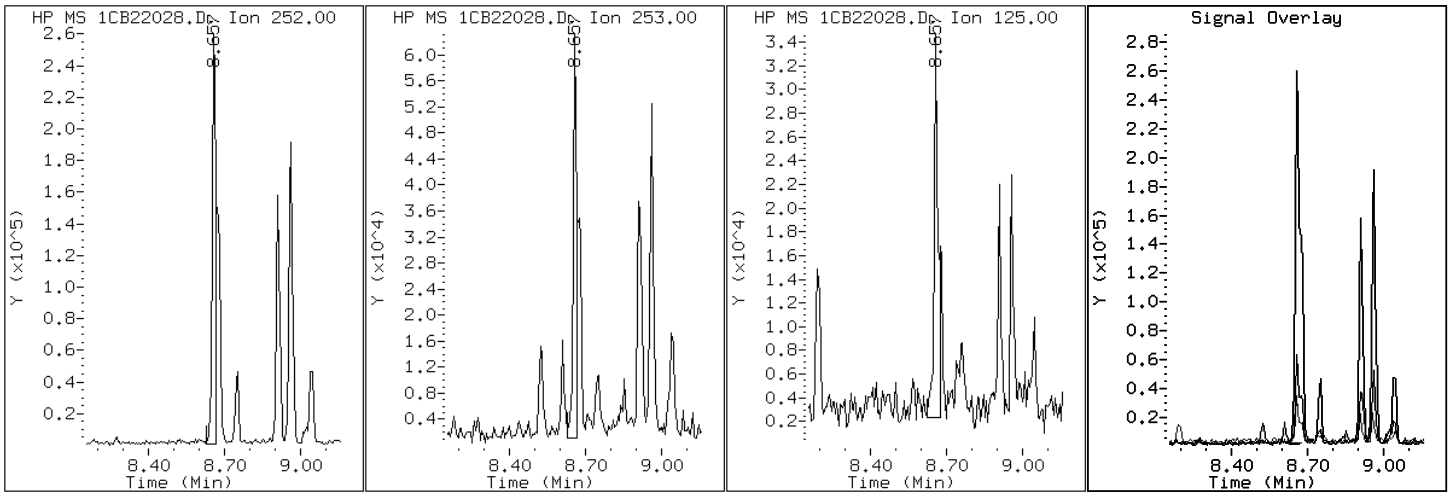
Client ID: FM0161M-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

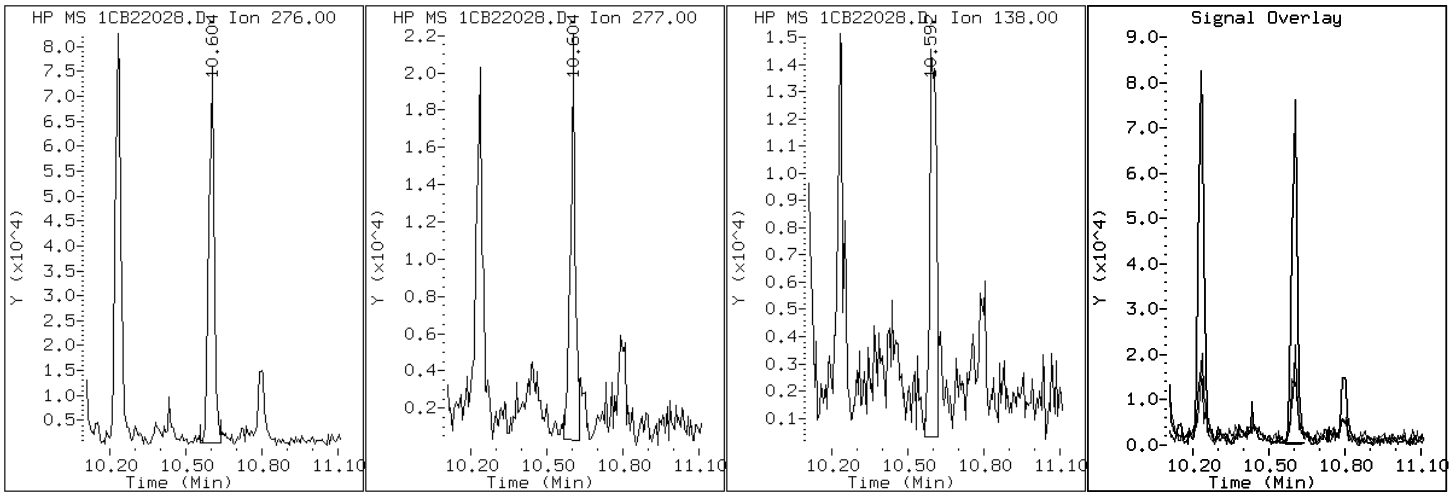
Client ID: FM0161M-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

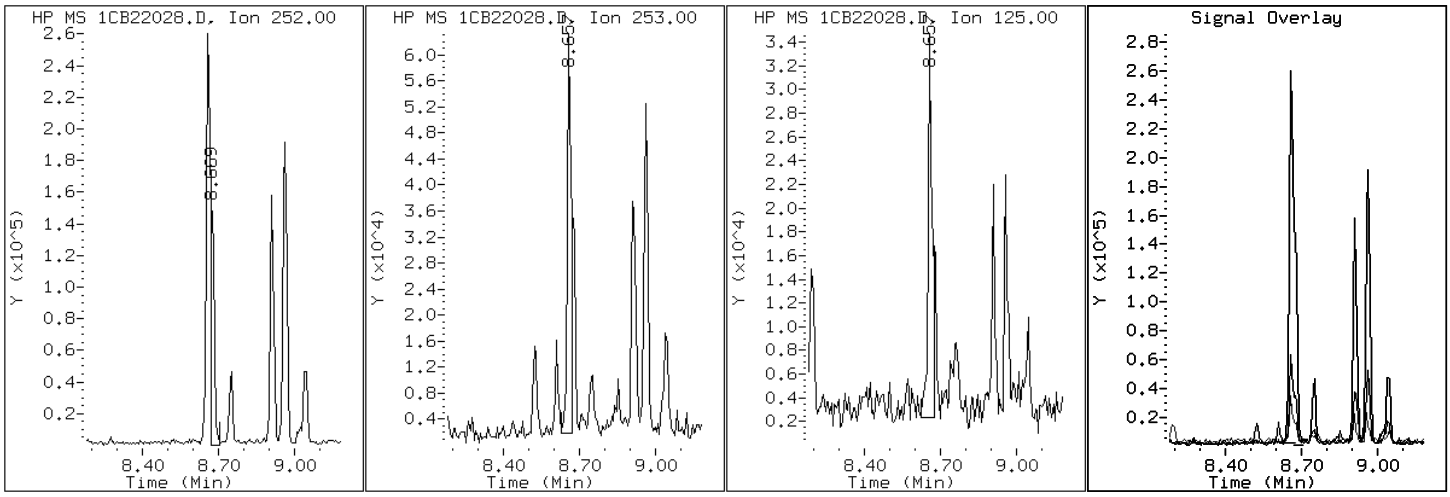
Client ID: FM0161M-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a

Operator: SCC

21 Benzo(k)fluoranthene



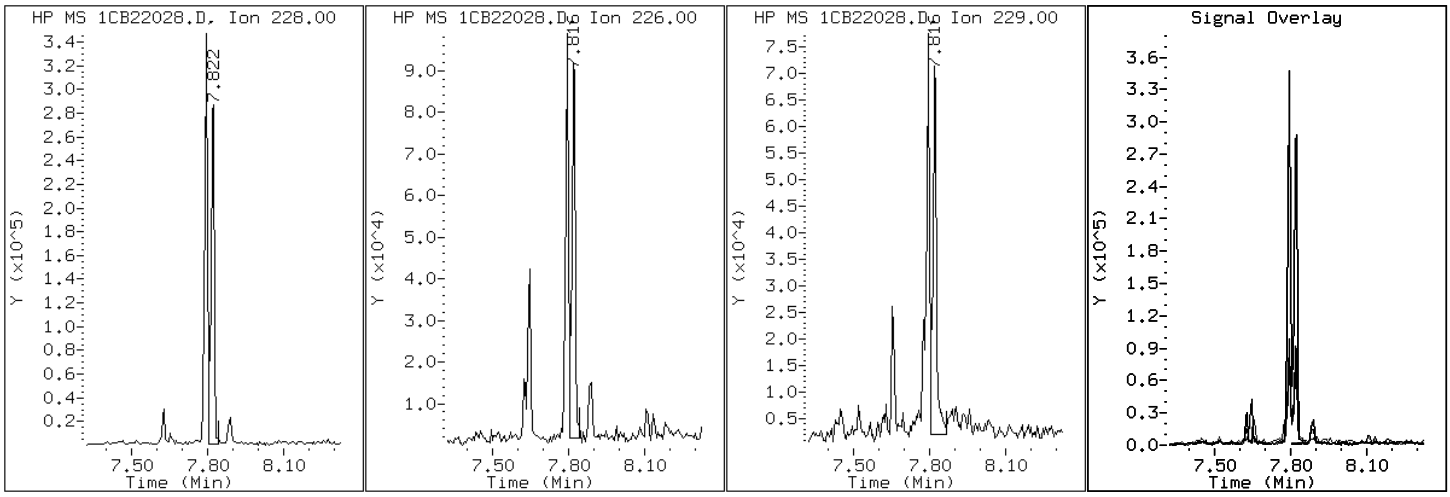
Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

Client ID: FM0161M-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a Operator: SCC

19 Chrysene



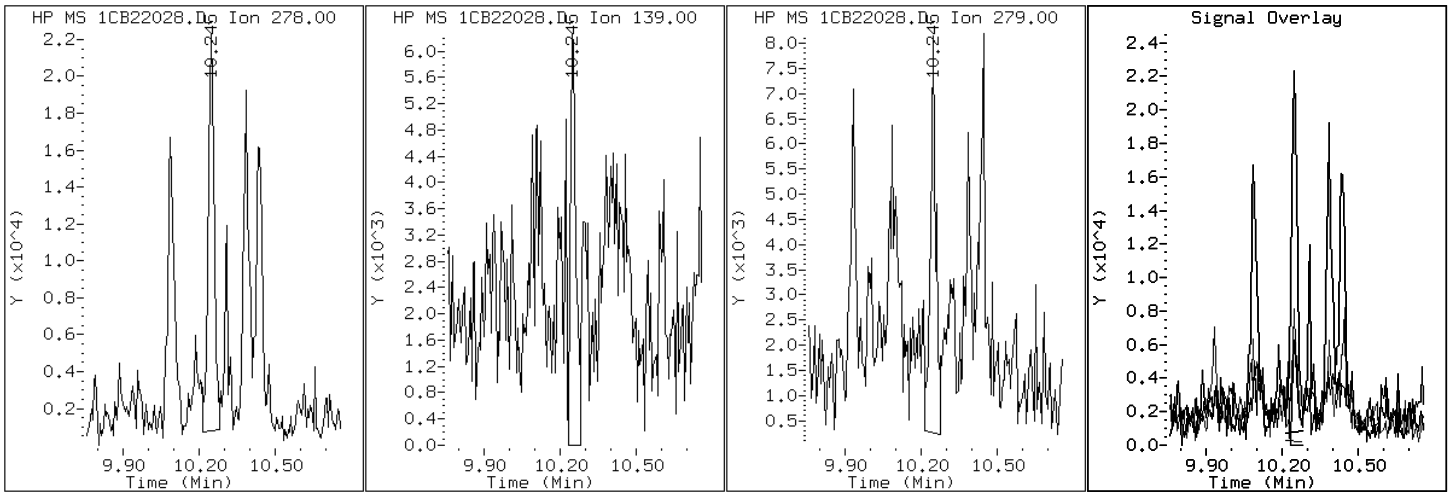
Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

Client ID: FM0161M-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

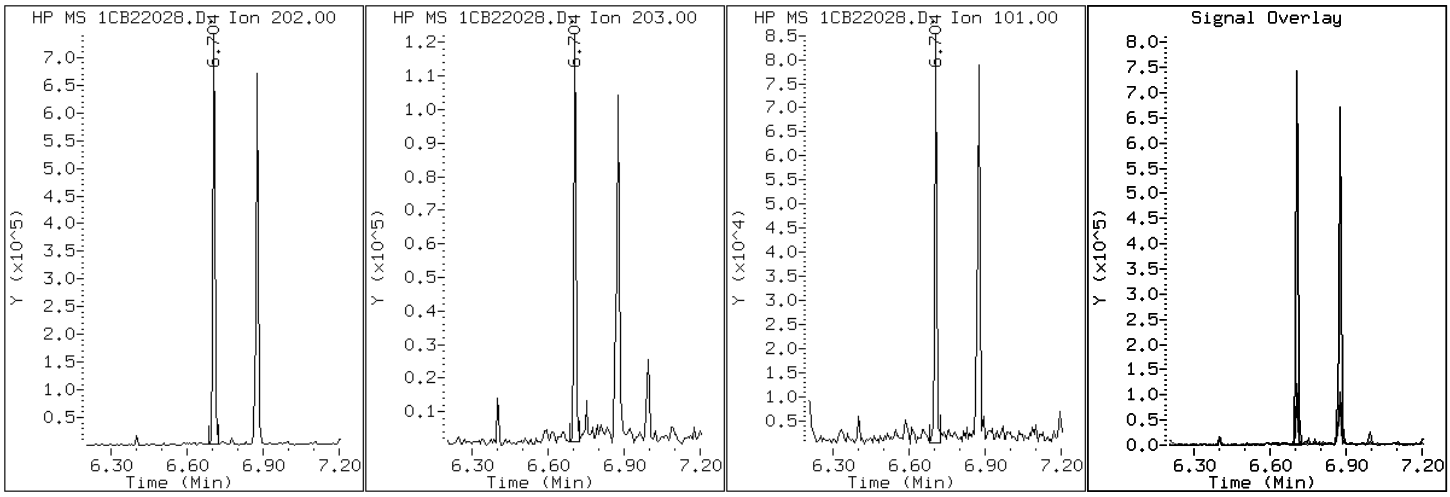
Client ID: FM0161M-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a

Operator: SCC

15 Fluoranthene



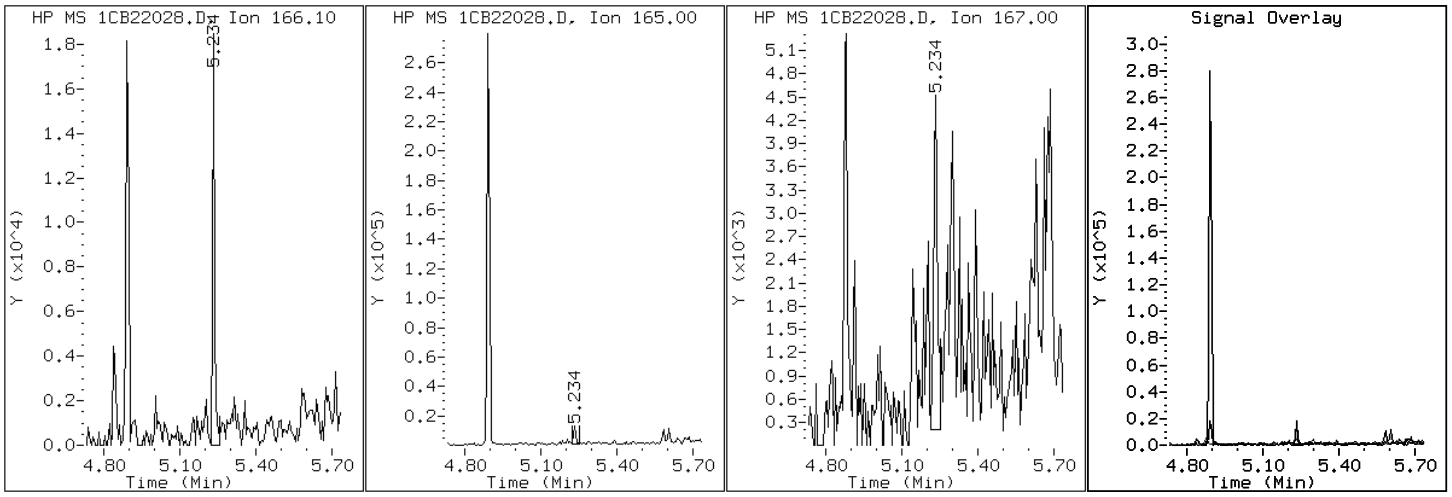
Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

Client ID: FM0161M-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a Operator: SCC

9 Fluorene



Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

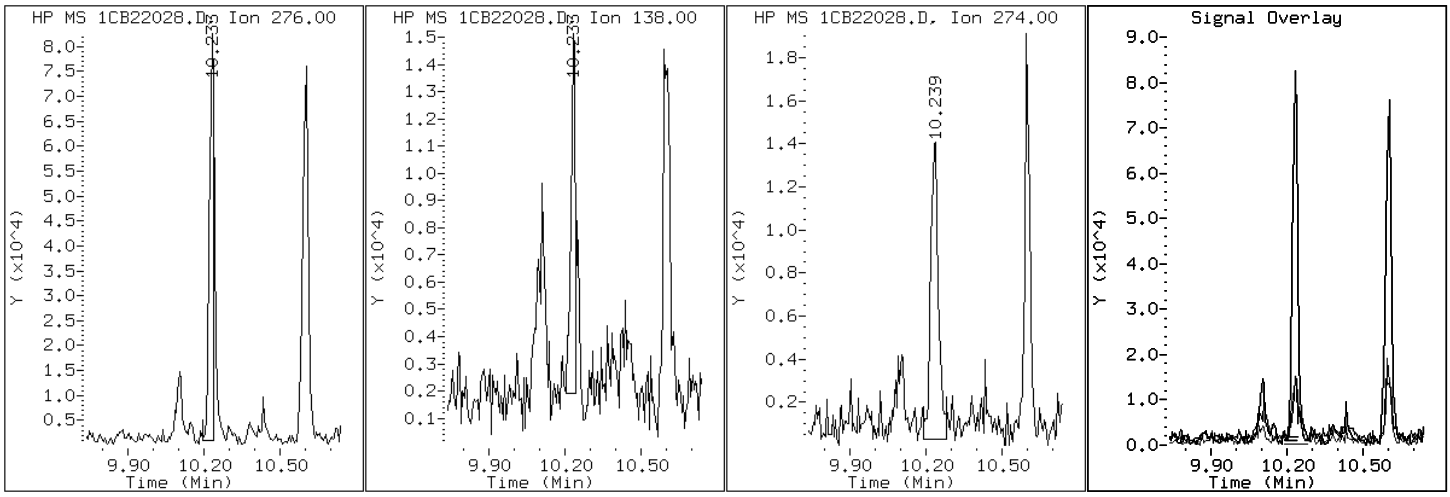
Client ID: FM0161M-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



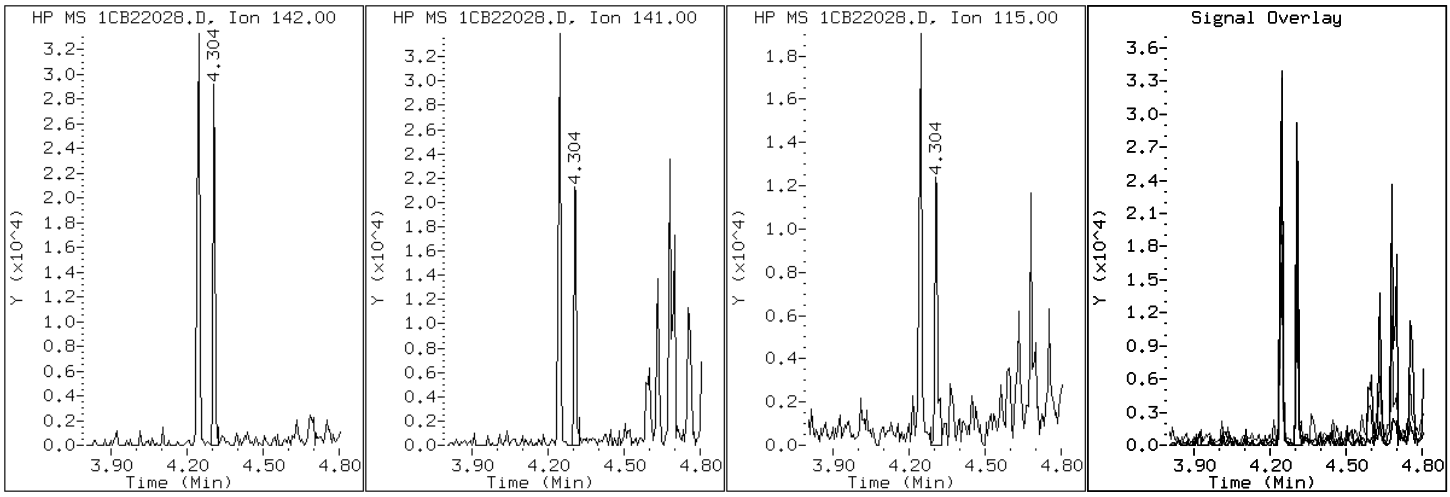
Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

Client ID: FM0161M-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a Operator: SCC

4 1-Methylnaphthalene



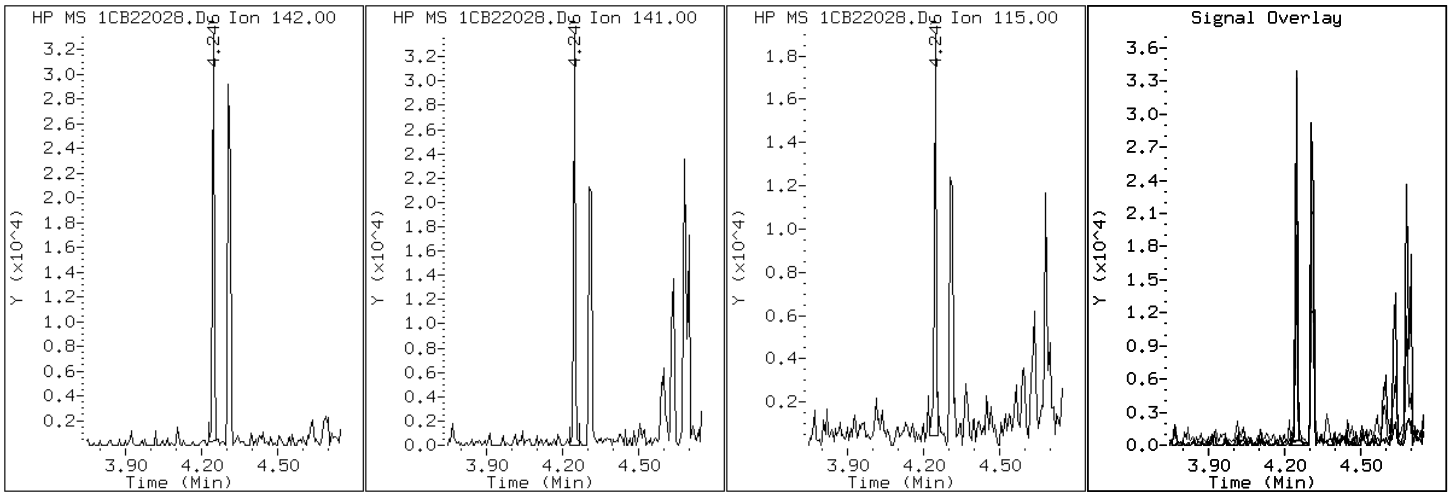
Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

Client ID: FM0161M-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

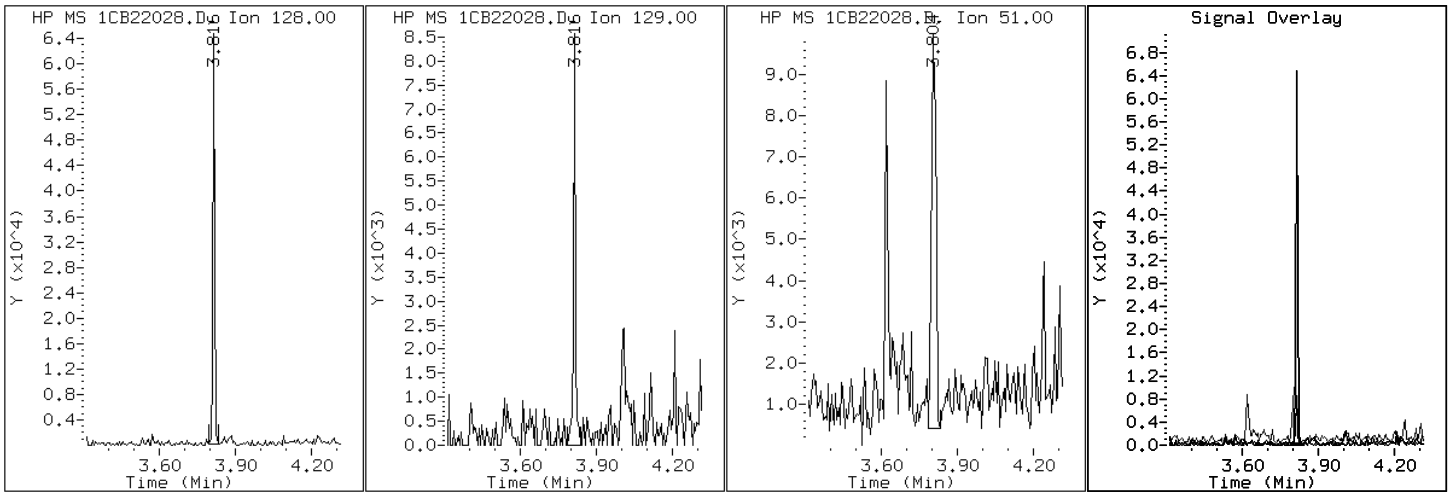
Client ID: FM0161M-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a

Operator: SCC

2 Naphthalene



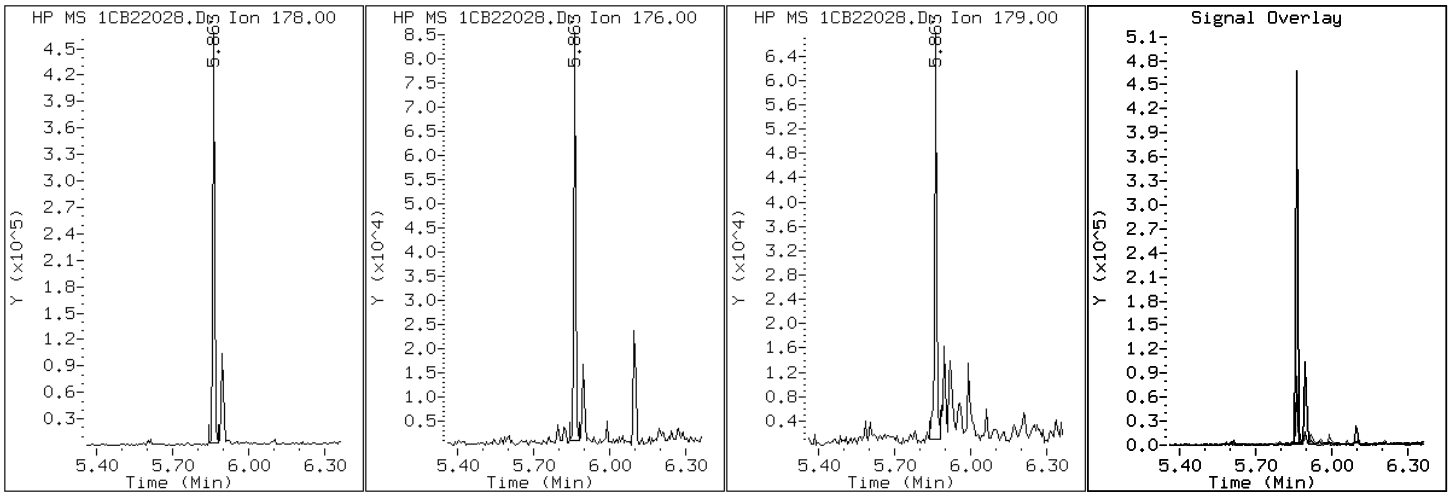
Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

Client ID: FM0161M-CS | Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a | Operator: SCC

11 Phenanthrene



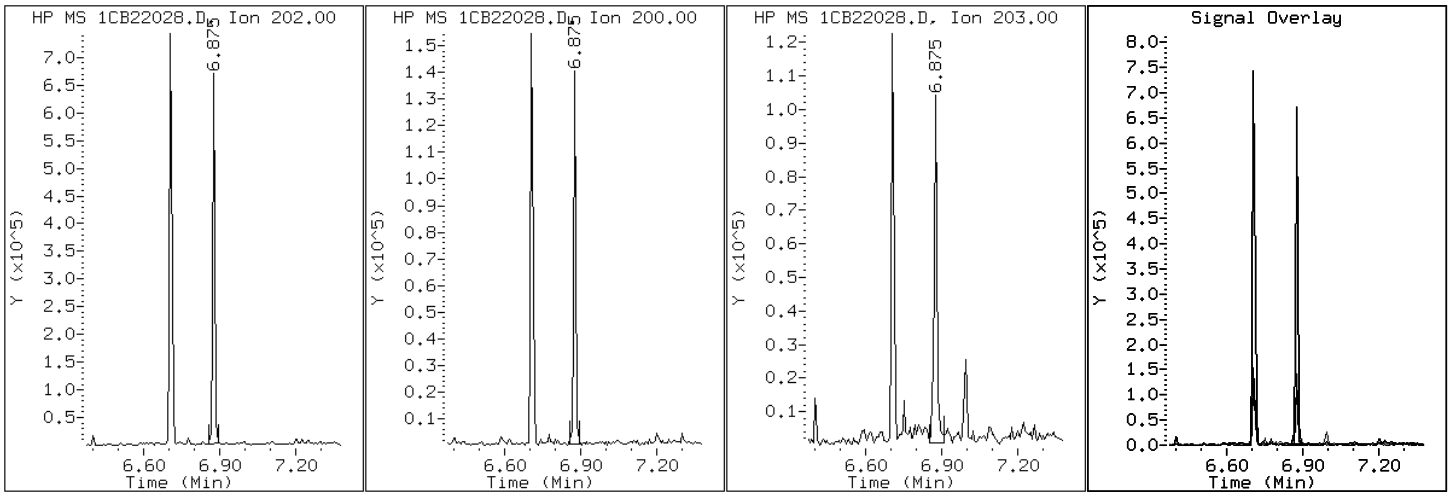
Data File: 1CB22028.D

Date: 22-FEB-2013 19:38

Client ID: FM0161M-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-22-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB22028.D
Inj. Date and Time: 22-FEB-2013 19:38
Instrument ID: BSMC5973.i
Client ID: FM0161M-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

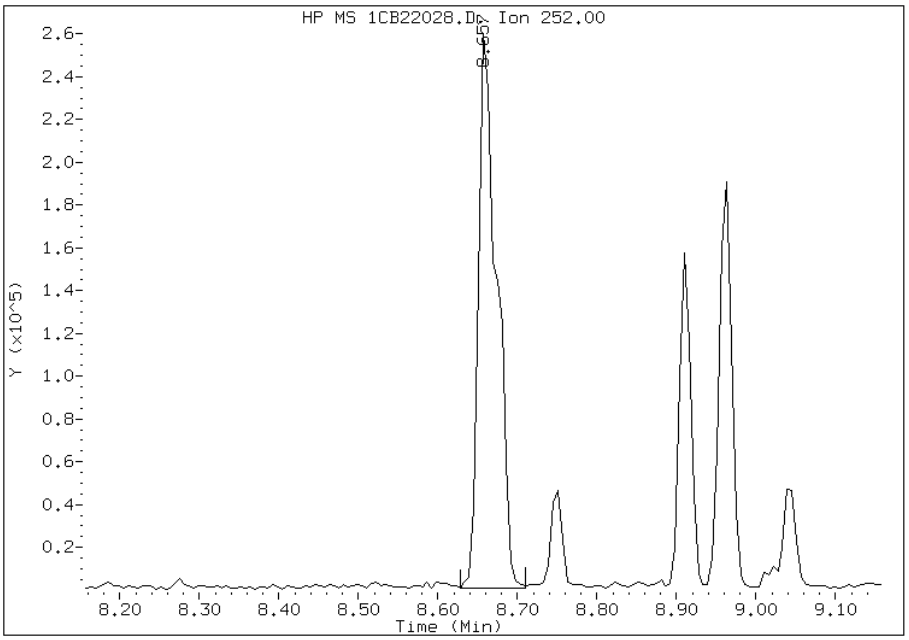
Processing Integration Results

RT: 8.66

Response: 414417

Amount: 6

Conc: 412



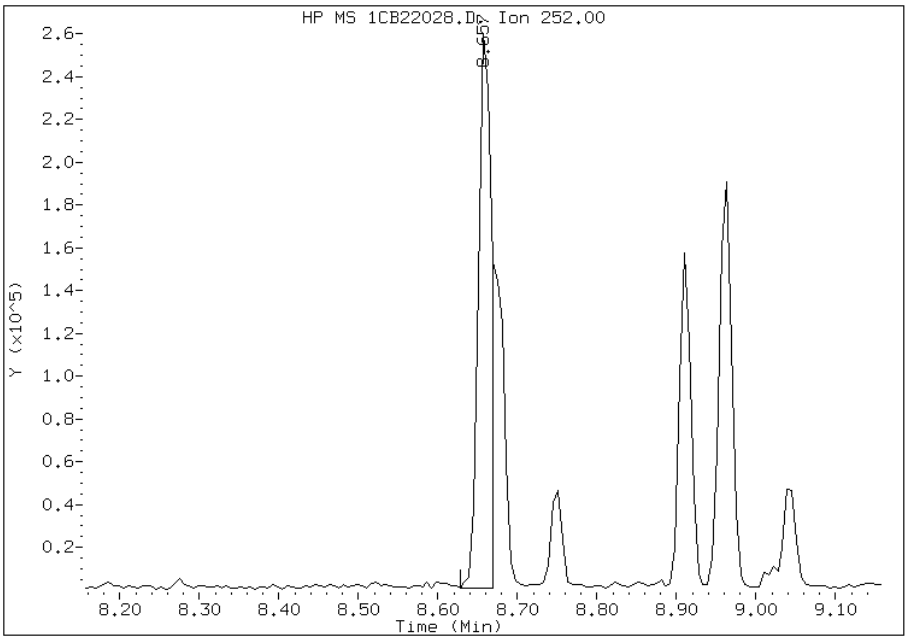
Manual Integration Results

RT: 8.66

Response: 293397

Amount: 4

Conc: 292



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 11:41
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB22028.D
Inj. Date and Time: 22-FEB-2013 19:38
Instrument ID: BSMC5973.i
Client ID: FM0161M-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

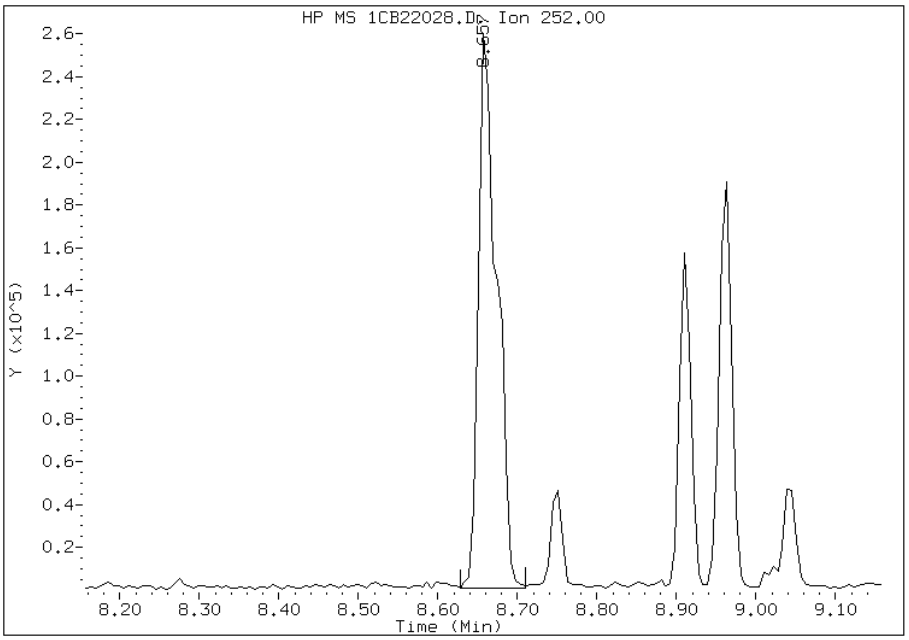
Processing Integration Results

RT: 8.66

Response: 414417

Amount: 6

Conc: 401



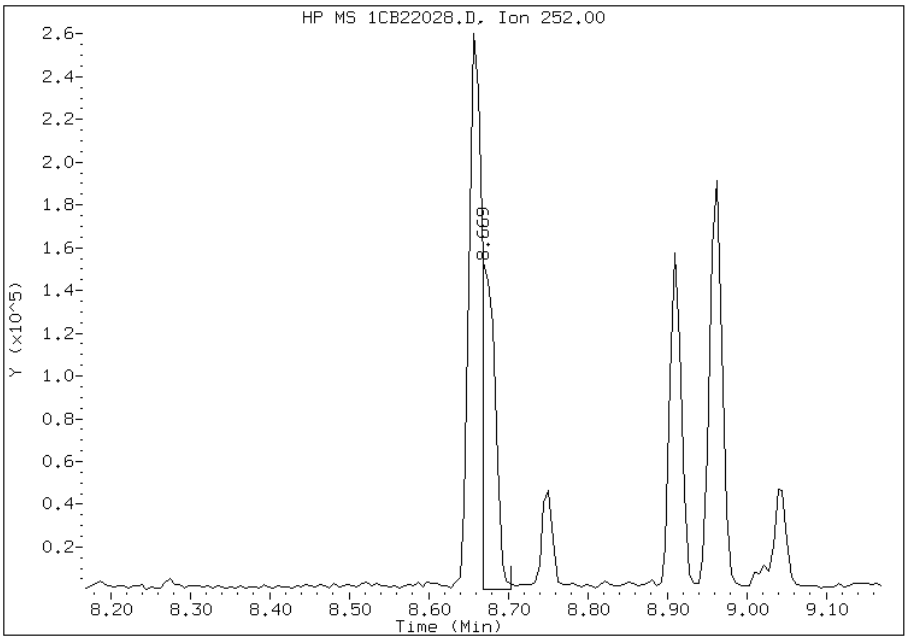
Manual Integration Results

RT: 8.67

Response: 176431

Amount: 3

Conc: 171



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 11:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB22028.D
Inj. Date and Time: 22-FEB-2013 19:38
Instrument ID: BSMC5973.i
Client ID: FM0161M-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

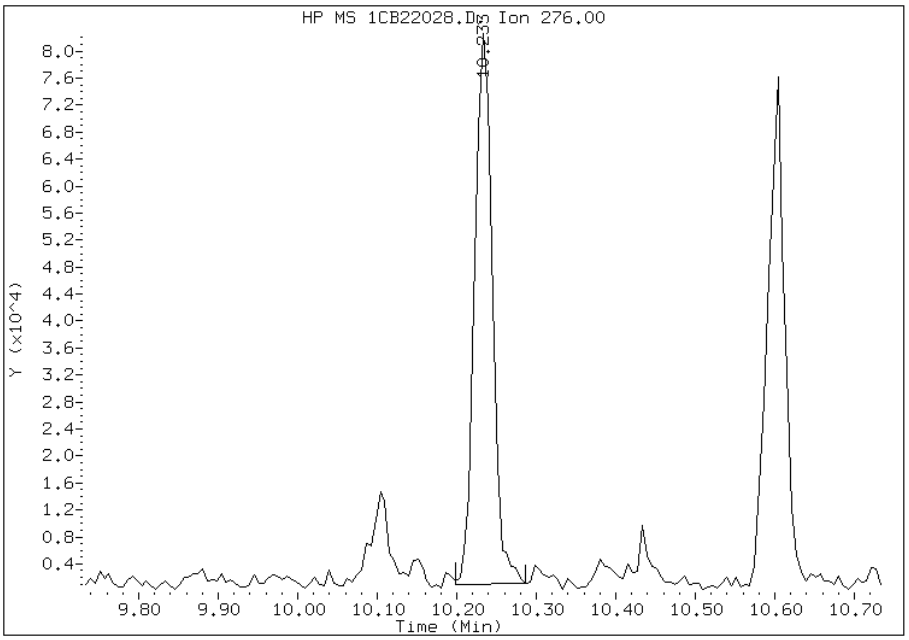
Processing Integration Results

RT: 10.23

Response: 125939

Amount: 2

Conc: 137



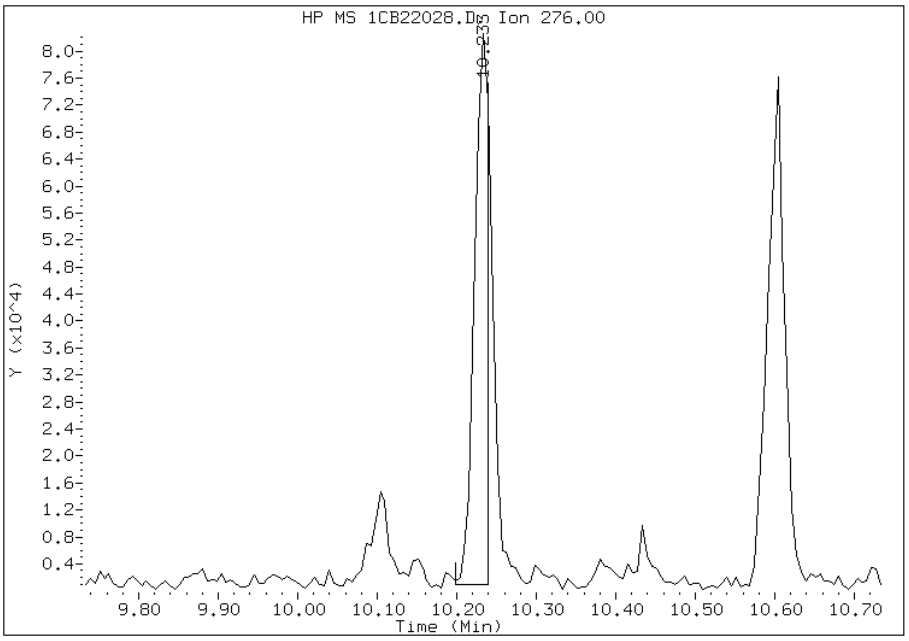
Manual Integration Results

RT: 10.23

Response: 99414

Amount: 2

Conc: 108



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 11:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161M-CSD | Lab Sample ID: 680-87545-23

Matrix: Solid | Lab File ID: 1AB25014.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 09:58

Extract. Method: 3546 | Date Extracted: 02/21/2013 12:14

Sample wt/vol: 15.17(g) | Date Analyzed: 02/25/2013 17:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 2.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134820 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	9.5	J	41	5.1
120-12-7	Anthracene	17		8.6	4.3
56-55-3	Benzo[a]anthracene	72		8.2	4.0
50-32-8	Benzo[a]pyrene	56		11	5.3
205-99-2	Benzo[b]fluoranthene	78		12	6.2
191-24-2	Benzo[g,h,i]perylene	50		20	4.5
207-08-9	Benzo[k]fluoranthene	38		8.2	3.7
218-01-9	Chrysene	81		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	17	J	20	4.2
206-44-0	Fluoranthene	93		20	4.1
86-73-7	Fluorene	7.4	J	20	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	40		20	7.2
90-12-0	1-Methylnaphthalene	25	J	41	4.5
91-57-6	2-Methylnaphthalene	36	J	41	7.2
91-20-3	Naphthalene	41		41	4.5
85-01-8	Phenanthrene	68		8.2	4.0
129-00-0	Pyrene	82		20	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25014.D
Lab Smp Id: 680-87545-A-23-A Client Smp ID: FM0161M-CSD
Inj Date : 25-FEB-2013 17:00
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87545-A-23-A
Misc Info : 680-87545-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	2.947	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.394	2.379	(1.000)	691094	40.0000	
* 6 Acenaphthene-d10	164	3.419	3.404	(1.000)	488910	40.0000	
* 10 Phenanthrene-d10	188	4.360	4.339	(1.000)	684403	40.0000	
$ 14 o-Terphenyl	230	4.637	4.622	(1.064)	56599	5.68333	386.0167
* 18 Chrysene-d12	240	6.390	6.353	(1.000)	686134	40.0000	(H)
* 23 Perylene-d12	264	7.490	7.443	(1.000)	909862	40.0000	(H)
2 Naphthalene	128	2.404	2.389	(1.004)	10021	0.60176	40.8721
3 2-Methylnaphthalene	141	2.805	2.790	(1.172)	4574	0.53206	36.1379
4 1-Methylnaphthalene	142	2.859	2.849	(1.194)	3544	0.37020	25.1446
5 Acenaphthylene	152	3.334	3.319	(0.975)	2542	0.13925	9.4578
9 Fluorene	166	3.745	3.730	(1.095)	1444	0.10846	7.3669
11 Phenanthrene	178	4.376	4.355	(1.004)	16963	0.99712	67.7254
12 Anthracene	178	4.408	4.387	(1.011)	4036	0.24424	16.5892
13 Carbazole	167	4.573	4.542	(1.049)	1978	0.13560	9.2099(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.241	5.215	(1.202)	23303	1.37000	93.0513
16 Pyrene	202	5.407	5.381	(0.846)	24397	1.21226	82.3376(H)
17 Benzo(a)anthracene	228	6.379	6.342	(0.998)	21843	1.06617	72.4149(H)
19 Chrysene	228	6.400	6.369	(1.002)	21827	1.19123	80.9097(H)
20 Benzo(b)fluoranthene	252	7.202	7.165	(0.961)	26351	1.14247	77.5975(MH)
21 Benzo(k)fluoranthene	252	7.212	7.181	(0.963)	12849	0.55372	37.6093(QMH)
22 Benzo(a)pyrene	252	7.431	7.390	(0.992)	17431	0.82523	56.0503(H)
24 Indeno(1,2,3-cd)pyrene	276	8.211	8.164	(1.096)	10632	0.58671	39.8499(MH)
25 Dibenzo(a,h)anthracene	278	8.222	8.180	(1.098)	4597	0.24343	16.5343(H)
26 Benzo(g,h,i)perylene	276	8.425	8.367	(1.125)	14197	0.73659	50.0295(H)

QC Flag Legend

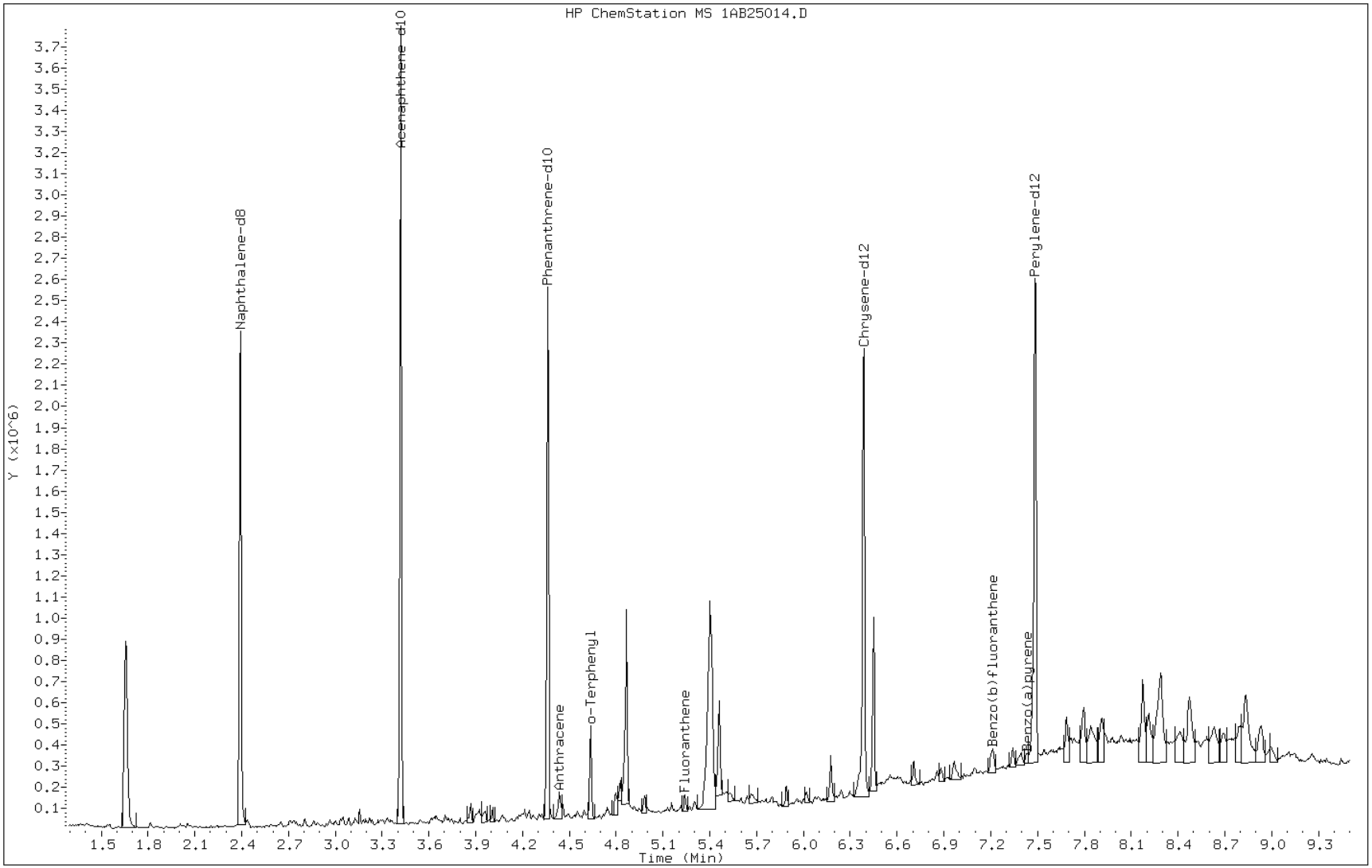
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD | Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A | Operator: SCC



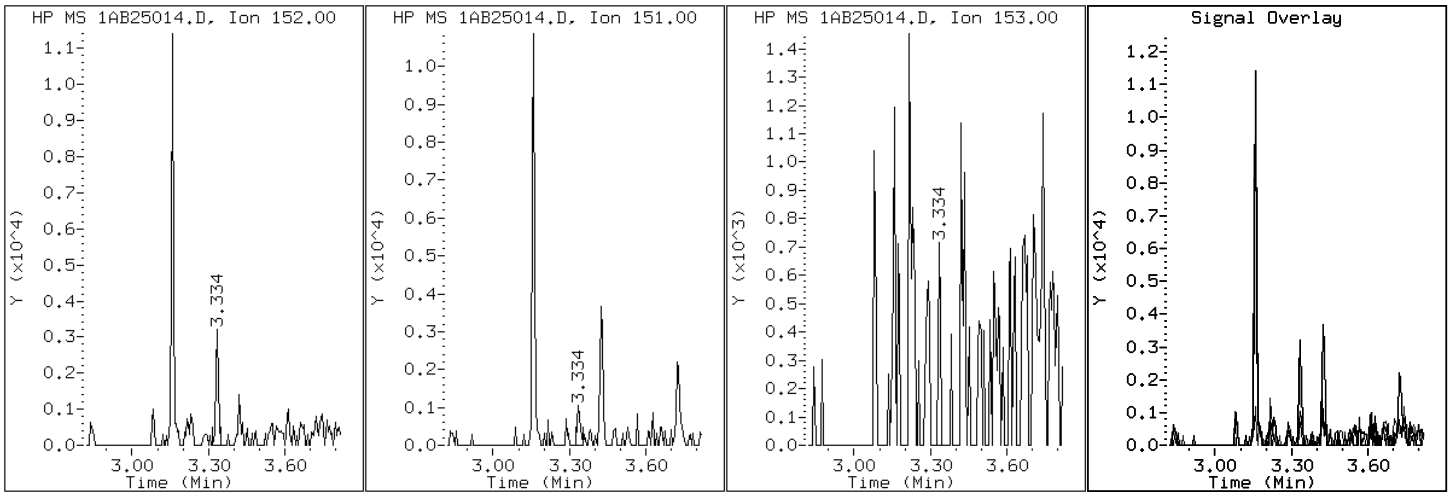
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

5 Acenaphthylene



Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

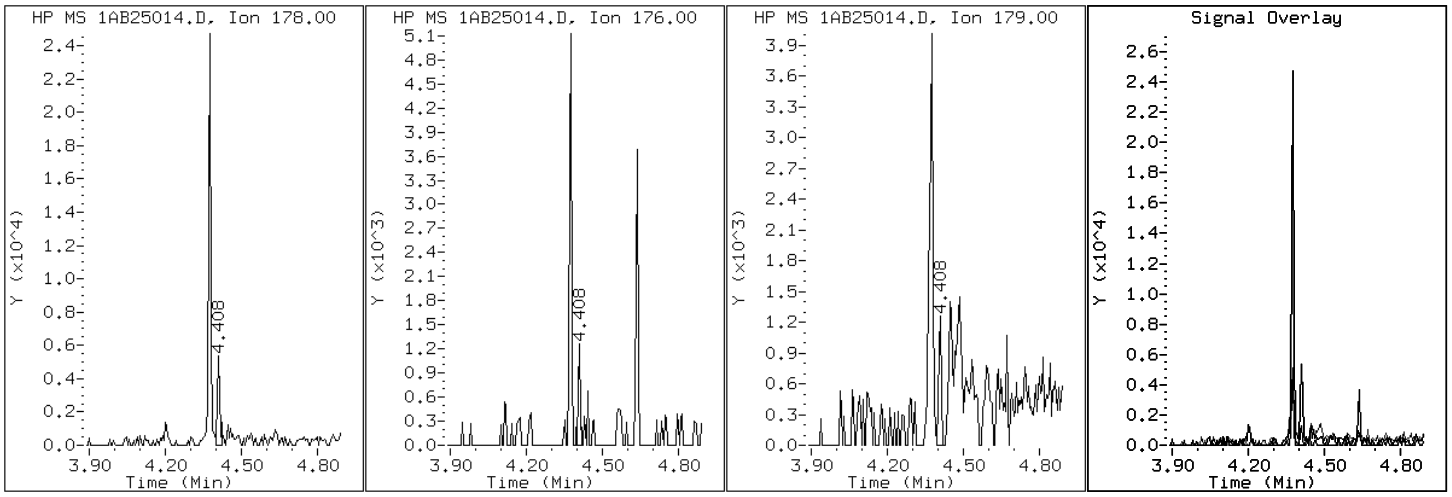
Client ID: FM0161M-CSD

Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A

Operator: SCC

12 Anthracene



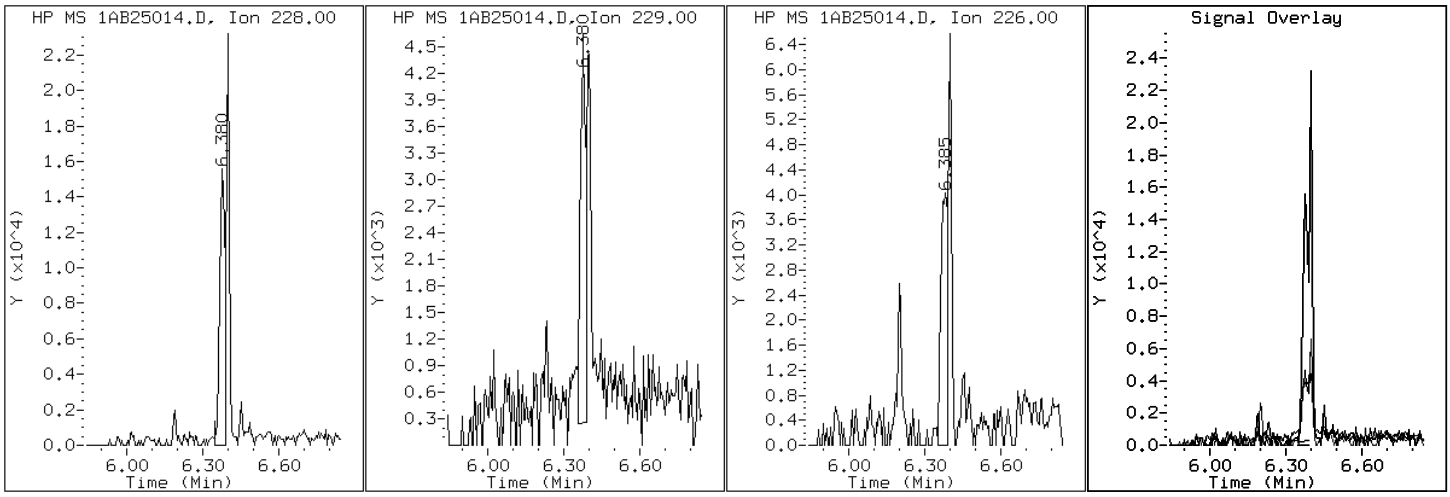
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

17 Benzo(a)anthracene



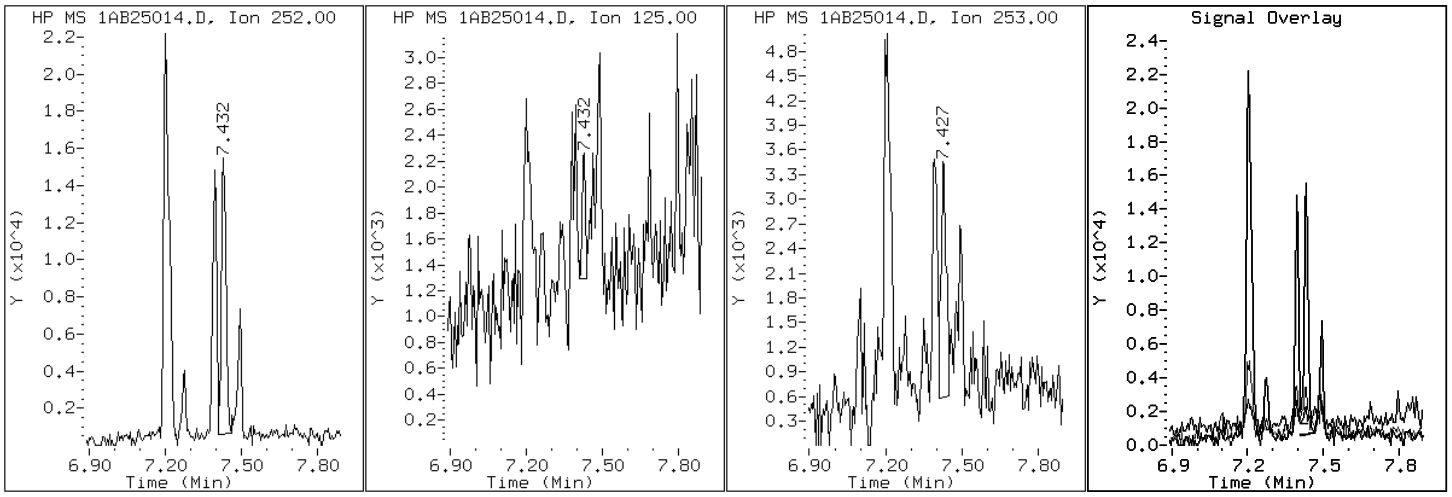
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

22 Benzo(a)pyrene



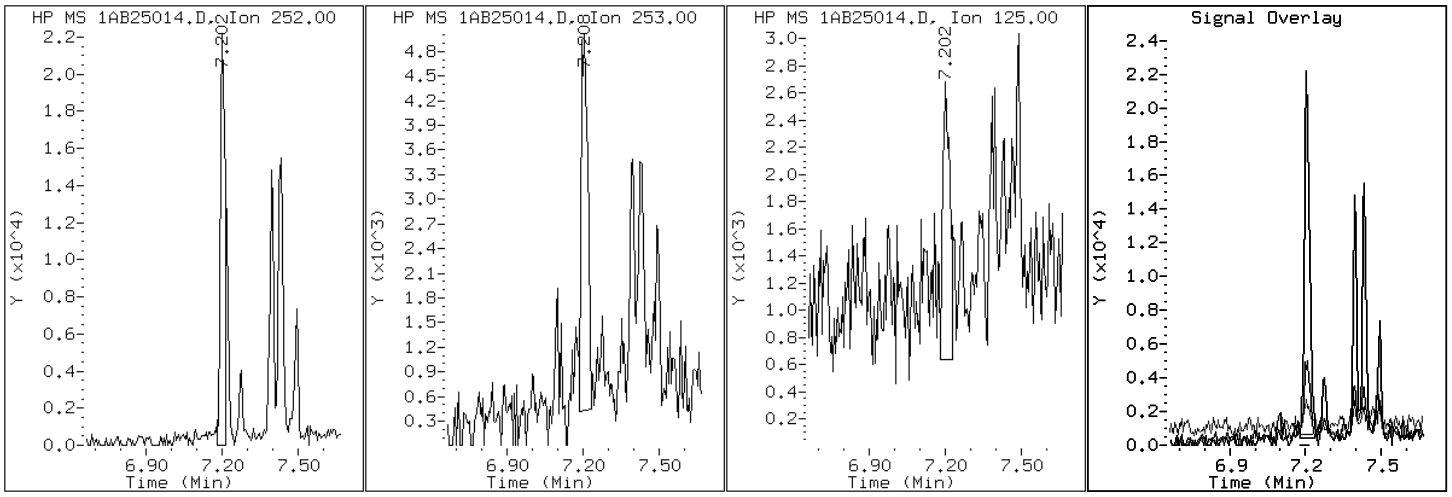
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

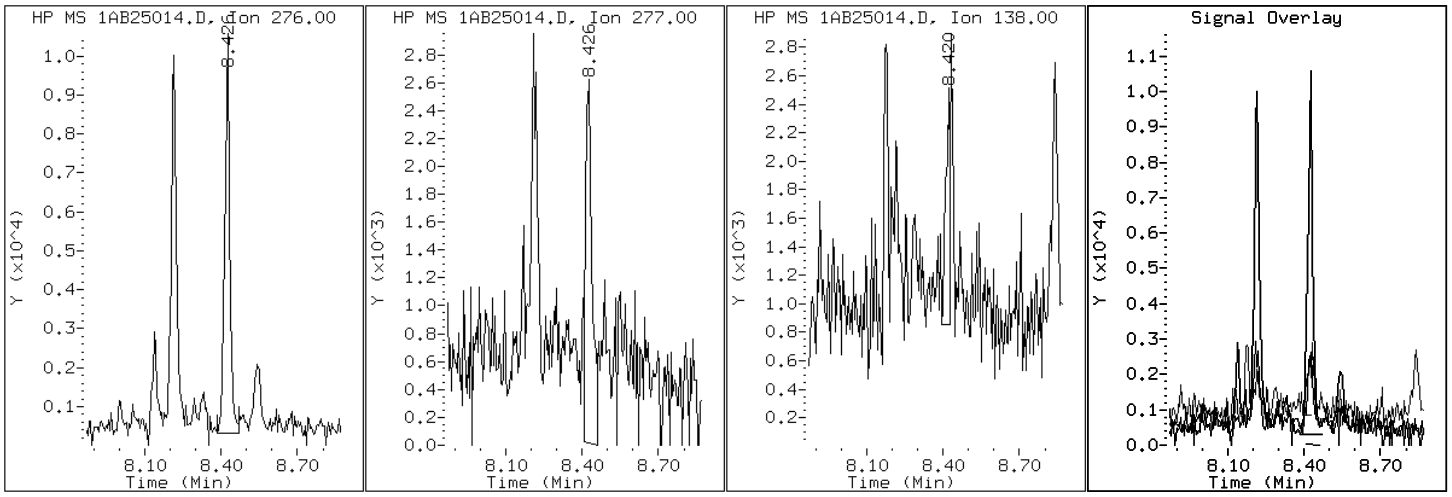
Client ID: FM0161M-CSD

Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

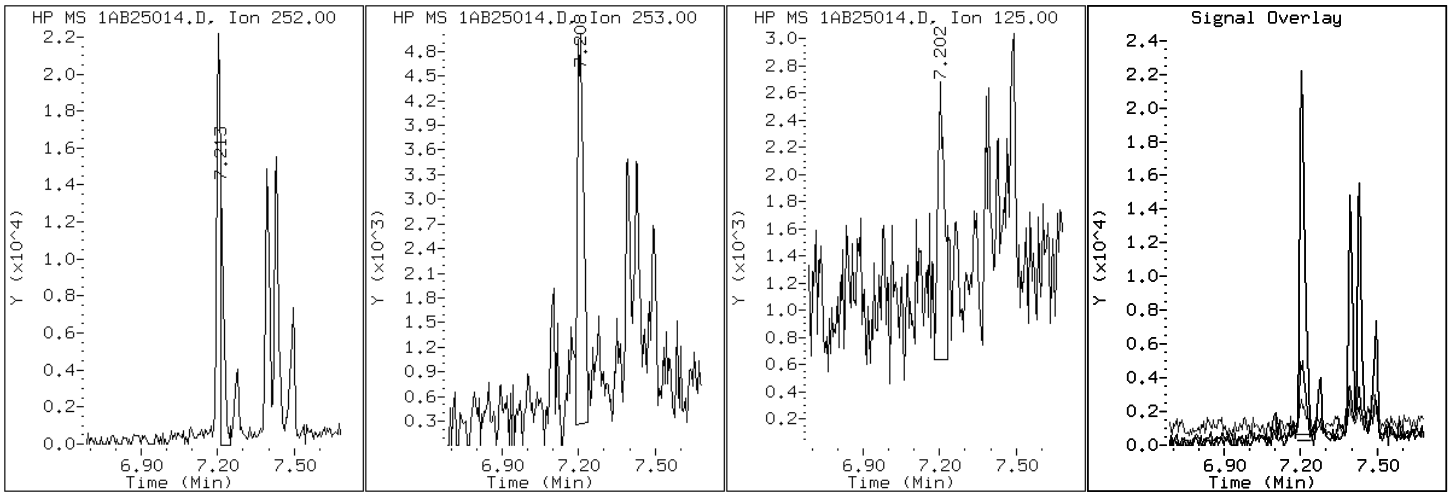
Client ID: FM0161M-CSD

Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A

Operator: SCC

21 Benzo(k)fluoranthene



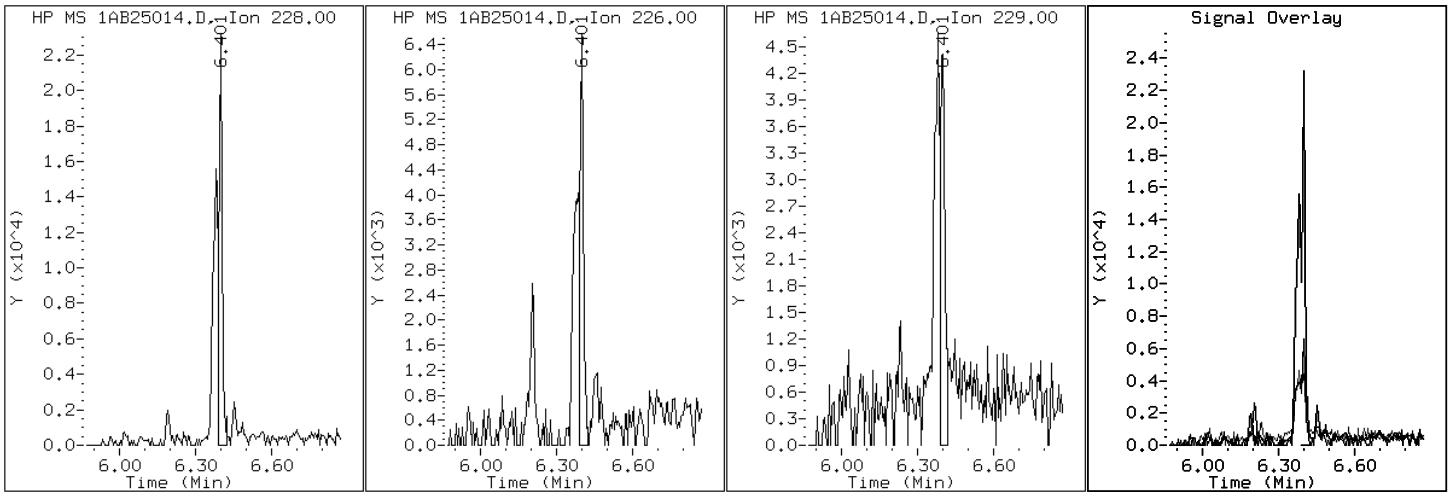
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

19 Chrysene



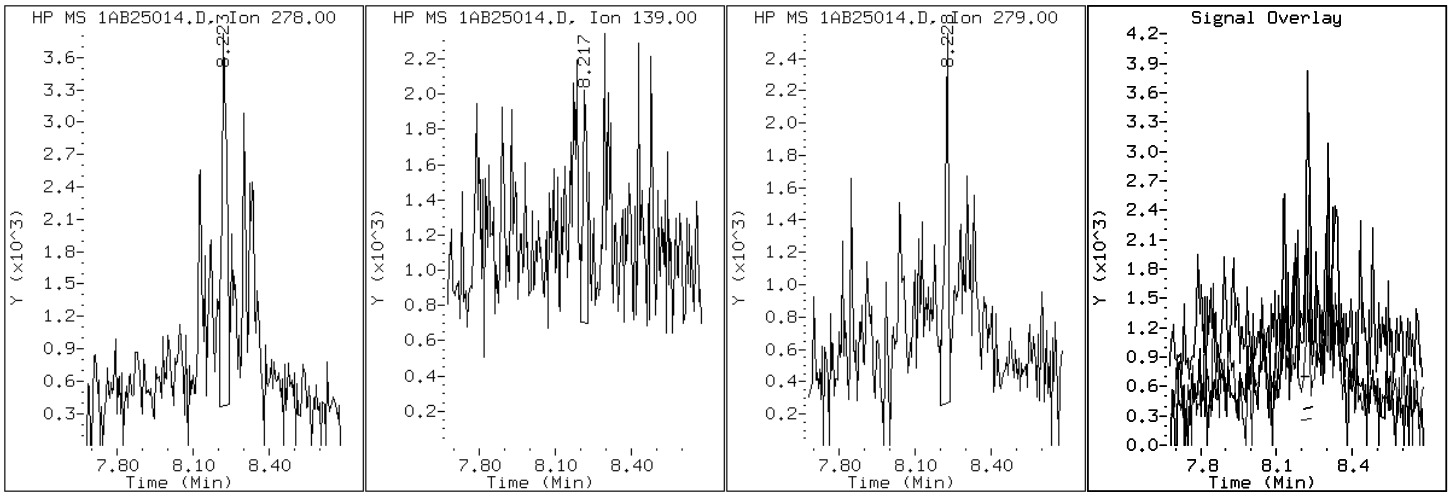
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

25 Dibenzo(a,h)anthracene



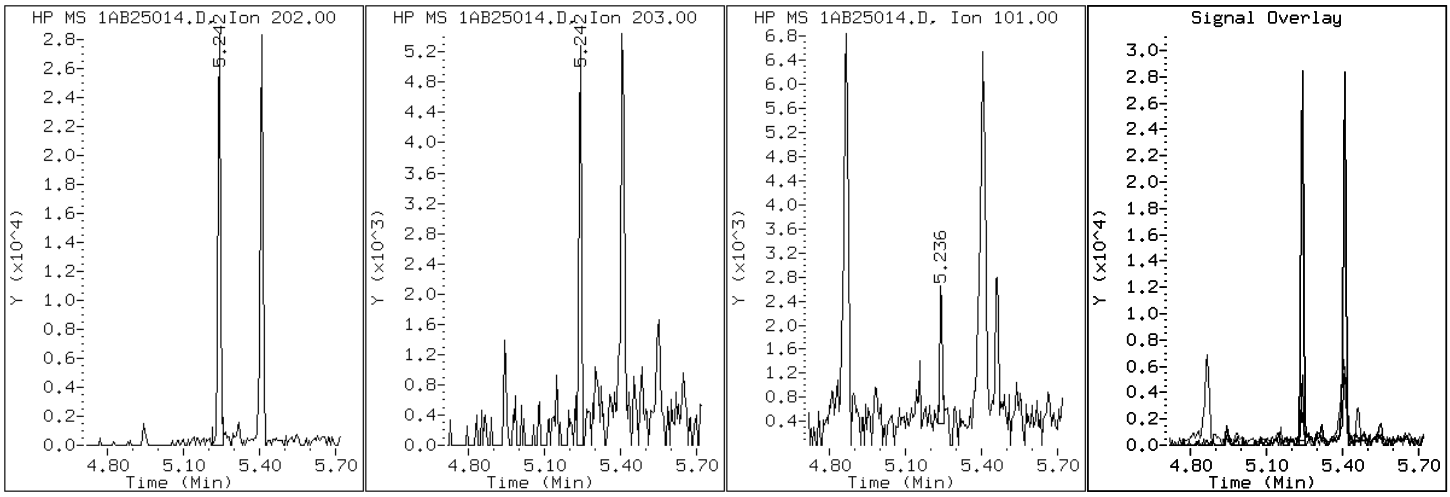
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

15 Fluoranthene



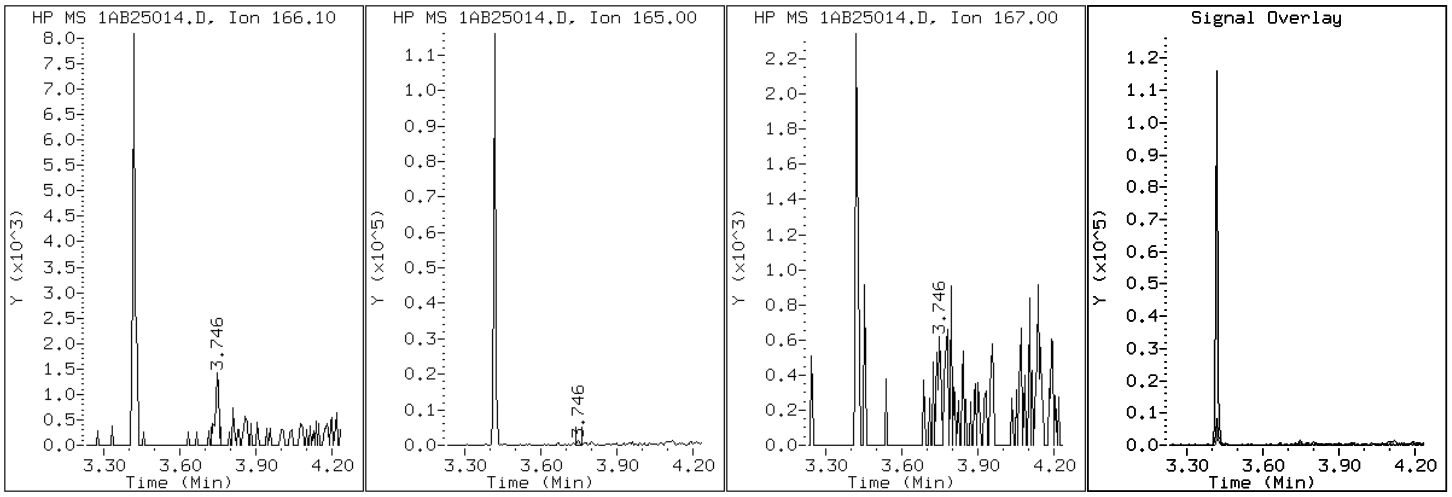
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

9 Fluorene



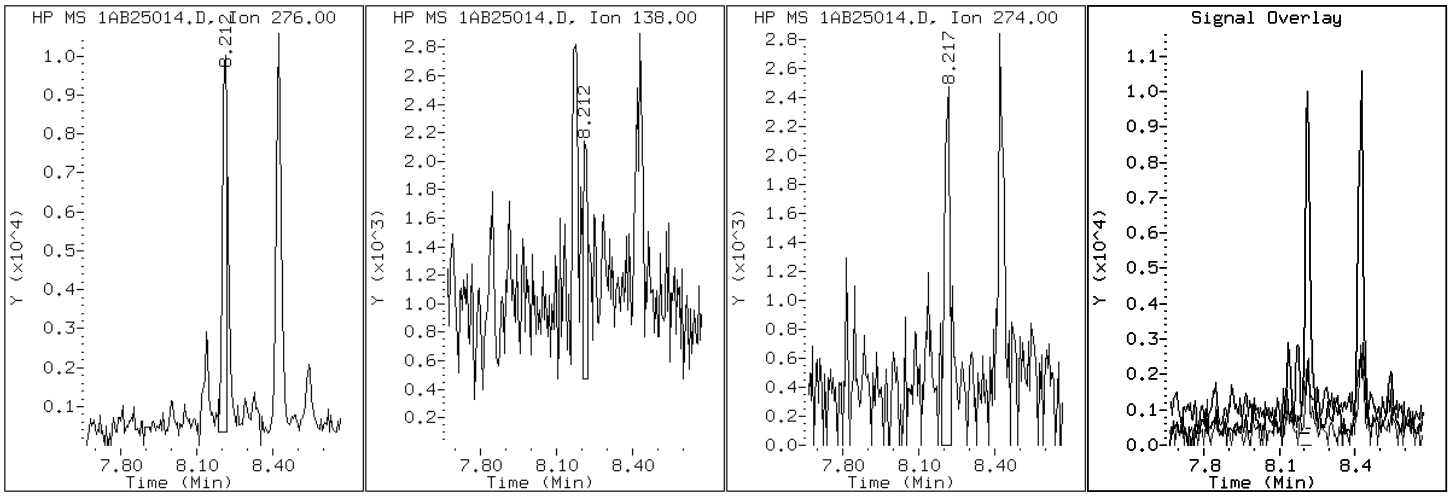
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

24 Indeno(1,2,3-cd)pyrene



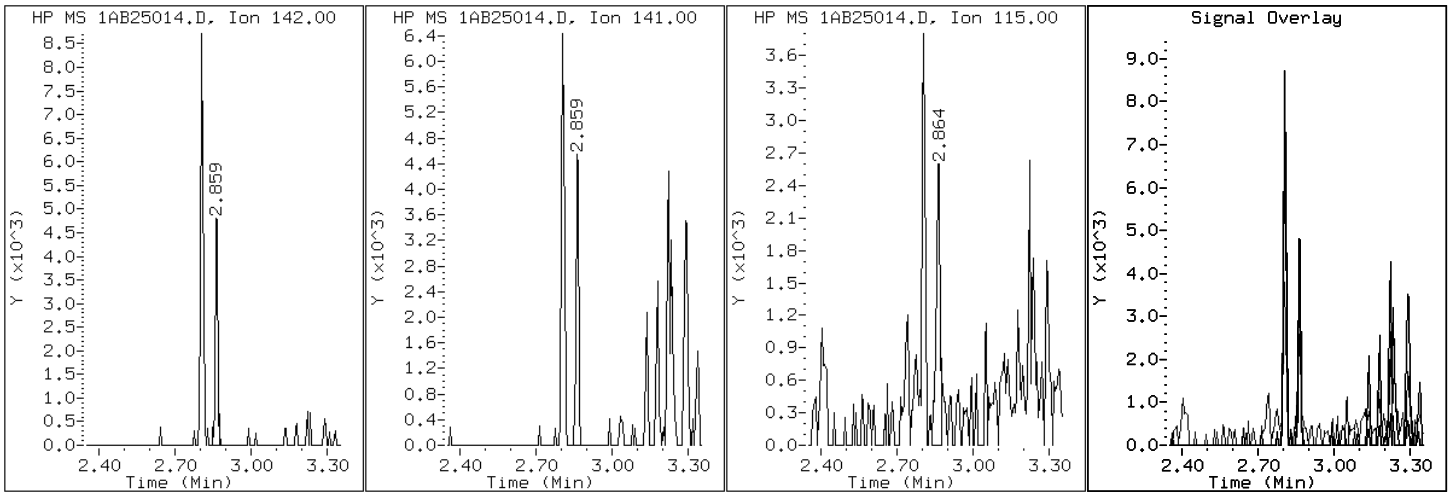
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

4 1-Methylnaphthalene



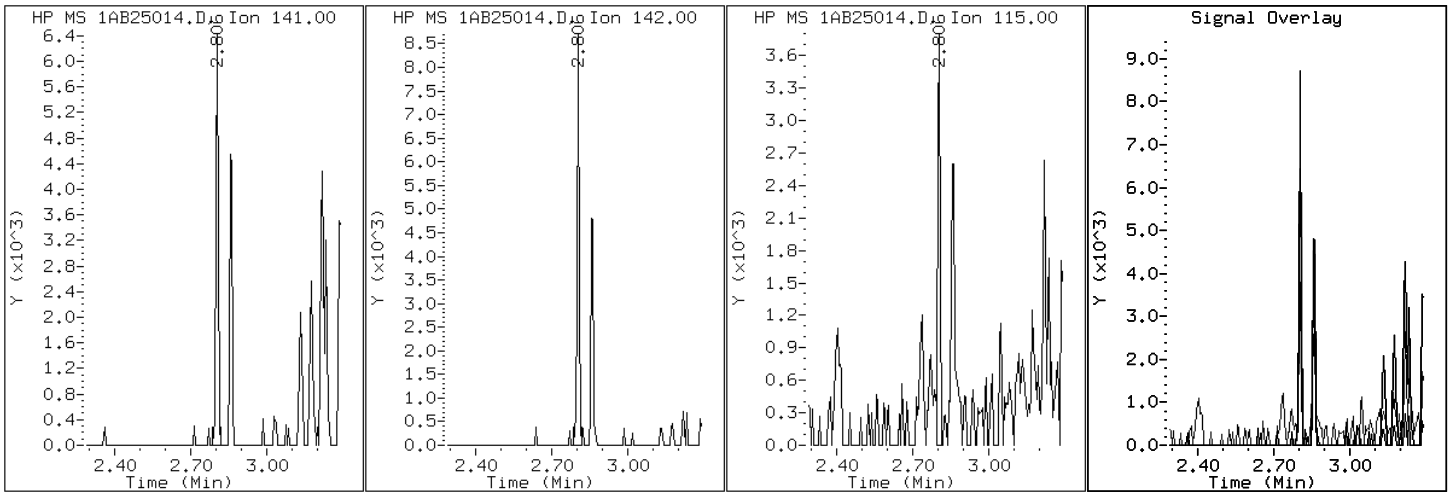
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

3 2-Methylnaphthalene



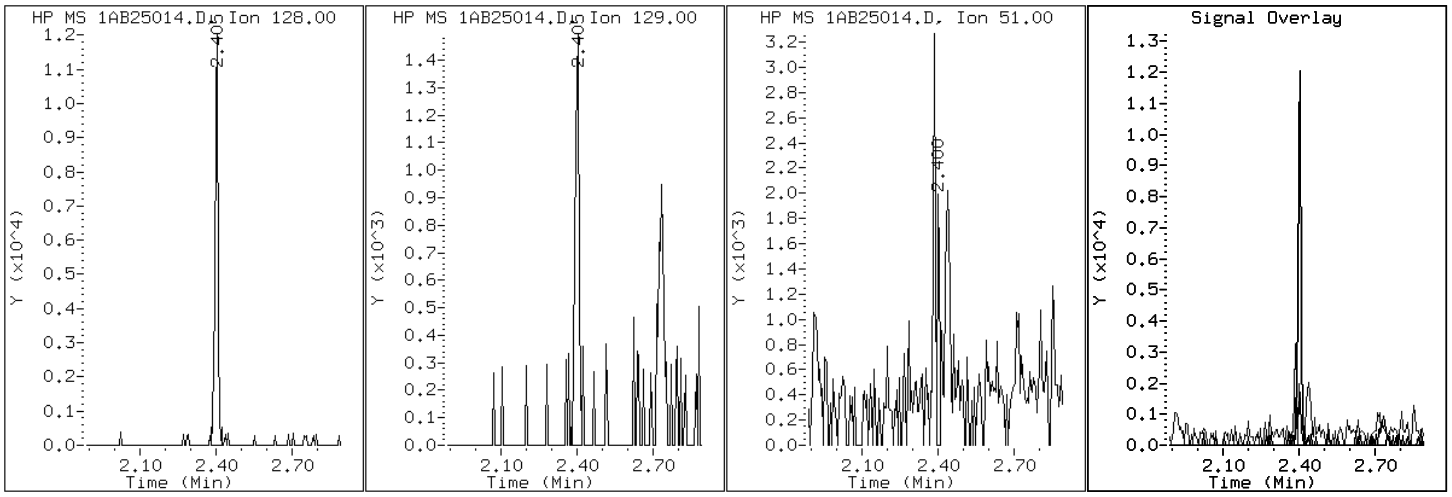
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

2 Naphthalene



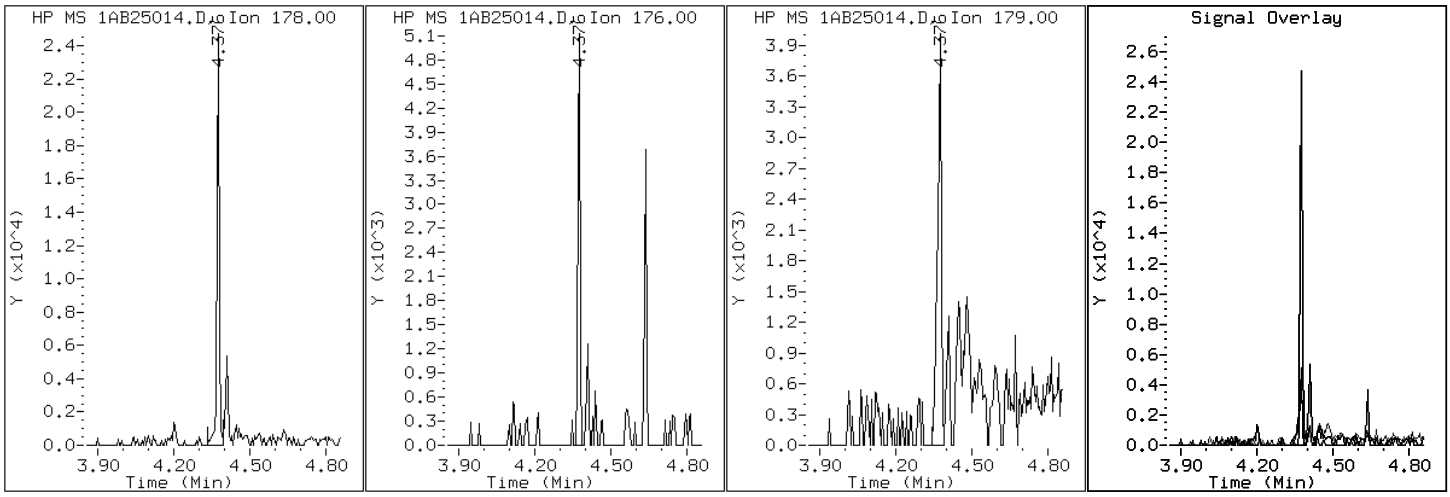
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

11 Phenanthrene



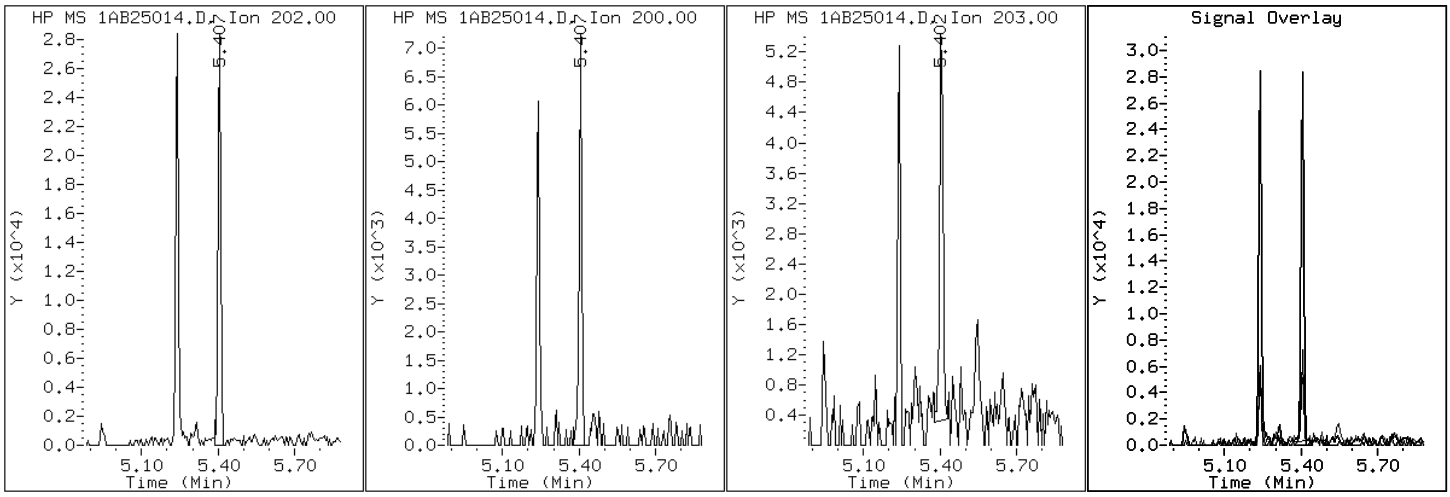
Data File: 1AB25014.D

Date: 25-FEB-2013 17:00

Client ID: FM0161M-CSD Instrument: BSMA5973.i

Sample Info: 680-87545-A-23-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB25014.D
Inj. Date and Time: 25-FEB-2013 17:00
Instrument ID: BSMA5973.i
Client ID: FM0161M-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

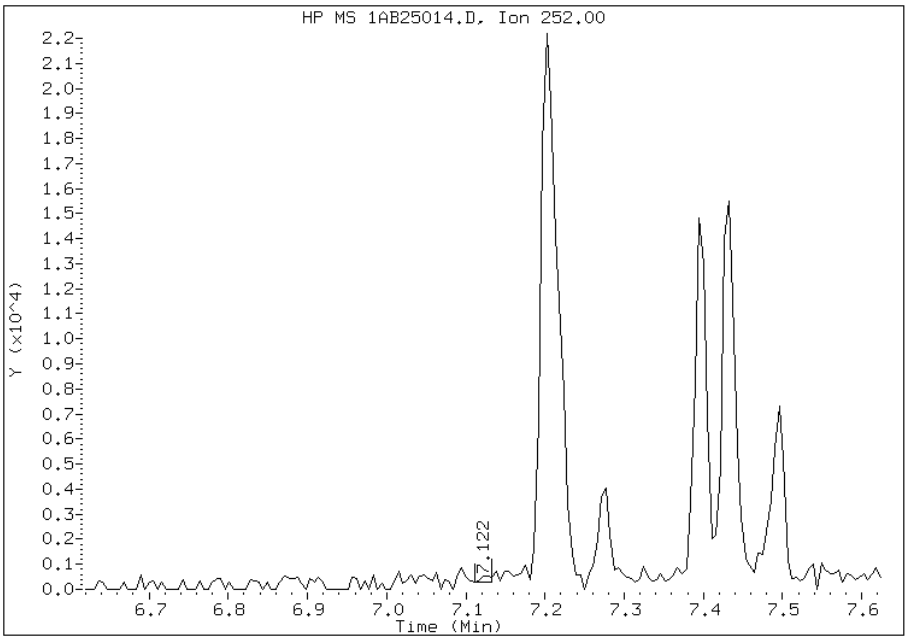
Processing Integration Results

RT: 7.12

Response: 221

Amount: 0

Conc: 1



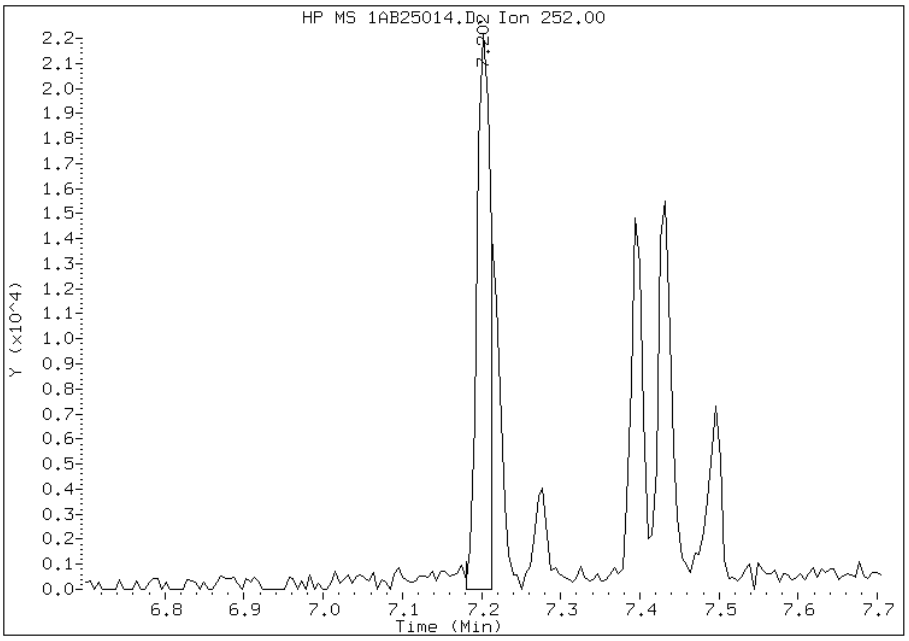
Manual Integration Results

RT: 7.20

Response: 26351

Amount: 1

Conc: 78



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB25014.D
Inj. Date and Time: 25-FEB-2013 17:00
Instrument ID: BSMA5973.i
Client ID: FM0161M-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

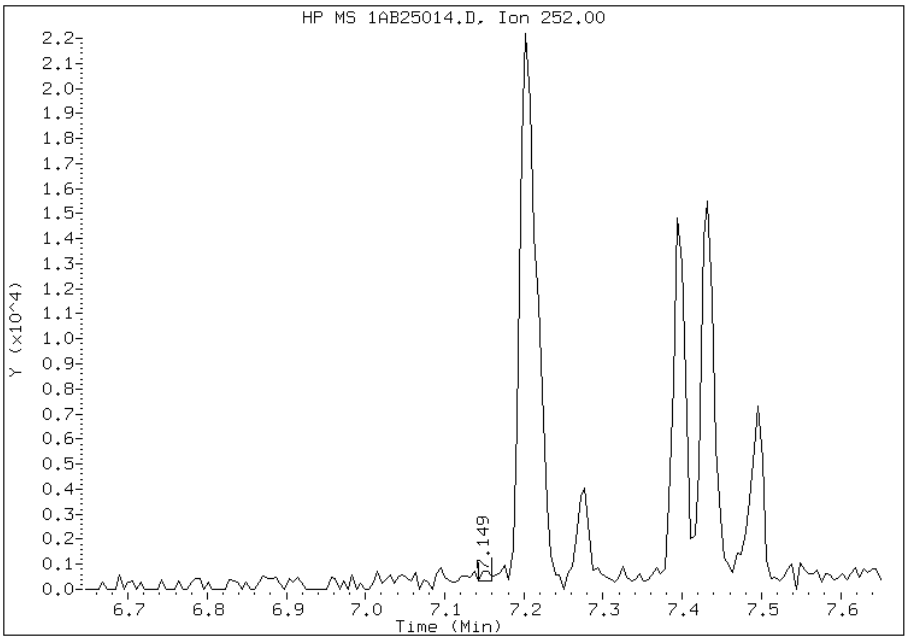
Processing Integration Results

RT: 7.15

Response: 336

Amount: 0

Conc: 1



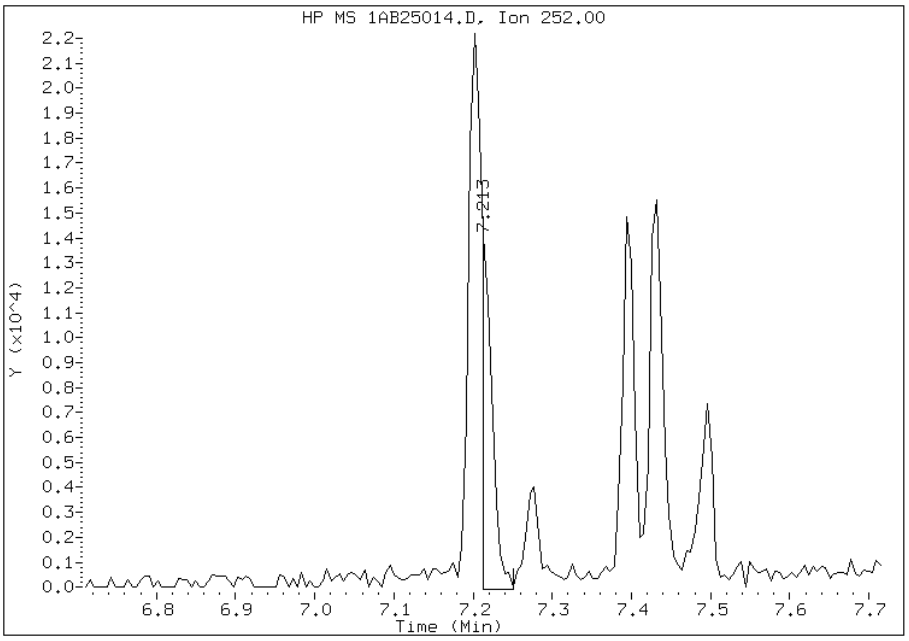
Manual Integration Results

RT: 7.21

Response: 12849

Amount: 1

Conc: 38



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB25014.D
Inj. Date and Time: 25-FEB-2013 17:00
Instrument ID: BSMA5973.i
Client ID: FM0161M-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

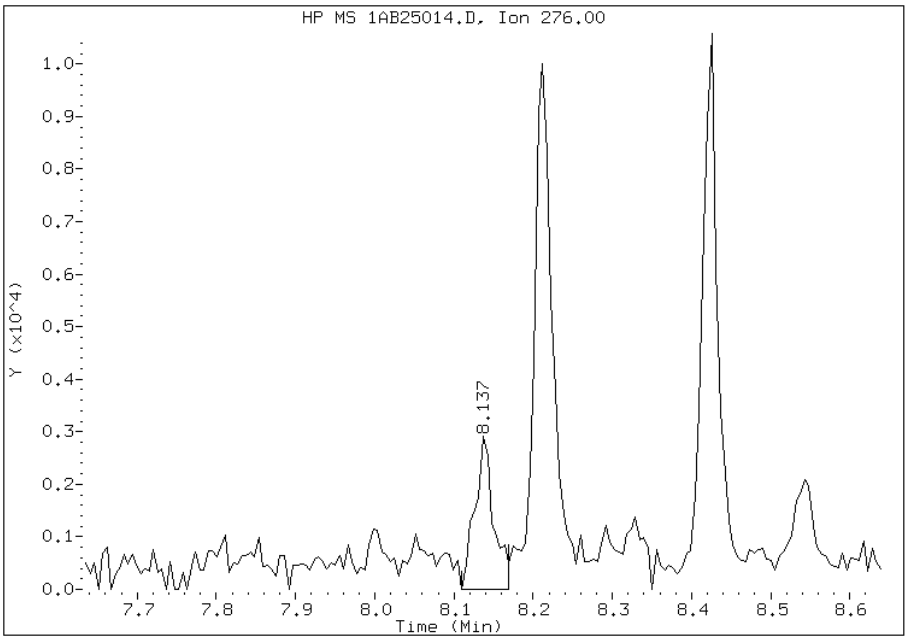
Processing Integration Results

RT: 8.14

Response: 4782

Amount: 0

Conc: 18



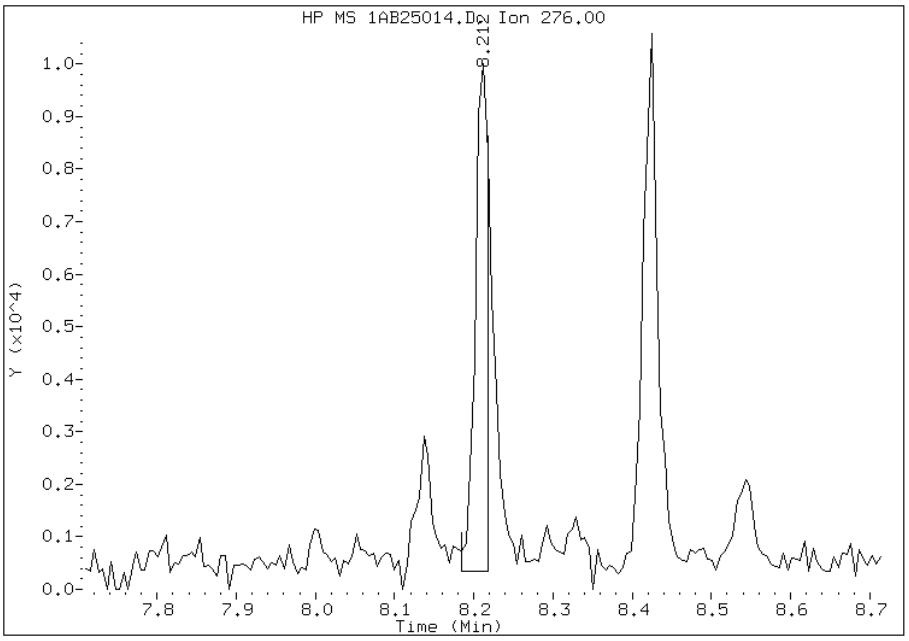
Manual Integration Results

RT: 8.21

Response: 10632

Amount: 1

Conc: 40



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161N-CS | Lab Sample ID: 680-87545-24

Matrix: Solid | Lab File ID: 1AB25015.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 10:05

Extract. Method: 3546 | Date Extracted: 02/21/2013 12:14

Sample wt/vol: 14.97(g) | Date Analyzed: 02/25/2013 17:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 0.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134820 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	13	J	40	5.1
120-12-7	Anthracene	20		8.5	4.2
56-55-3	Benzo[a]anthracene	77		8.1	3.9
50-32-8	Benzo[a]pyrene	38		11	5.3
205-99-2	Benzo[b]fluoranthene	90		12	6.2
191-24-2	Benzo[g,h,i]perylene	38		20	4.4
207-08-9	Benzo[k]fluoranthene	31		8.1	3.6
218-01-9	Chrysene	100		9.1	4.5
53-70-3	Dibenz(a,h)anthracene	10	J	20	4.1
206-44-0	Fluoranthene	220		20	4.0
86-73-7	Fluorene	4.9	J	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	34		20	7.2
90-12-0	1-Methylnaphthalene	21	J	40	4.4
91-57-6	2-Methylnaphthalene	25	J	40	7.2
91-20-3	Naphthalene	26	J	40	4.4
85-01-8	Phenanthrene	60		8.1	3.9
129-00-0	Pyrene	170		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25015.D
Lab Smp Id: 680-87545-A-24-A Client Smp ID: FM0161N-CS
Inj Date : 25-FEB-2013 17:15
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87545-A-24-A
Misc Info : 680-87545-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	0.87719	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.396	2.379	(1.000)	659681	40.0000	
* 6 Acenaphthene-d10	164	3.421	3.404	(1.000)	488638	40.0000	
* 10 Phenanthrene-d10	188	4.361	4.339	(1.000)	687401	40.0000	
$ 14 o-Terphenyl	230	4.639	4.622	(1.064)	55417	5.54037	373.3731
* 18 Chrysene-d12	240	6.386	6.353	(1.000)	618560	40.0000	(H)
* 23 Perylene-d12	264	7.487	7.443	(1.000)	824749	40.0000	(H)
2 Naphthalene	128	2.401	2.389	(1.002)	6118	0.38488	25.9376
3 2-Methylnaphthalene	141	2.807	2.790	(1.172)	3080	0.37533	25.2942
4 1-Methylnaphthalene	142	2.860	2.849	(1.194)	2855	0.31243	21.0553
5 Acenaphthylene	152	3.336	3.319	(0.975)	3447	0.18893	12.7321
9 Fluorene	166	3.747	3.730	(1.095)	974	0.07320	4.9331(Q)
11 Phenanthrene	178	4.377	4.355	(1.004)	15162	0.88737	59.8010
12 Anthracene	178	4.410	4.387	(1.011)	4818	0.29029	19.5633
13 Carbazole	167	4.575	4.542	(1.049)	5432	0.37076	24.9858

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.243	5.215	(1.202)	54534	3.19210	215.1201
16 Pyrene	202	5.409	5.381	(0.847)	45280	2.49570	168.1885(H)
17 Benzo(a)anthracene	228	6.375	6.342	(0.998)	21173	1.14636	77.2550(H)
19 Chrysene	228	6.402	6.369	(1.002)	24630	1.49106	100.4845(H)
20 Benzo(b)fluoranthene	252	7.203	7.165	(0.962)	27858	1.33245	89.7957(MH)
21 Benzo(k)fluoranthene	252	7.214	7.181	(0.964)	9767	0.46434	31.2926(QMH)
22 Benzo(a)pyrene	252	7.433	7.390	(0.993)	10725	0.56015	37.7492(H)
24 Indeno(1,2,3-cd)pyrene	276	8.213	8.164	(1.097)	8204	0.49945	33.6584(MH)
25 Dibenzo(a,h)anthracene	278	8.224	8.180	(1.098)	2655	0.15511	10.4527(H)
26 Benzo(g,h,i)perylene	276	8.421	8.367	(1.125)	9971	0.57071	38.4612(MH)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB25015.D

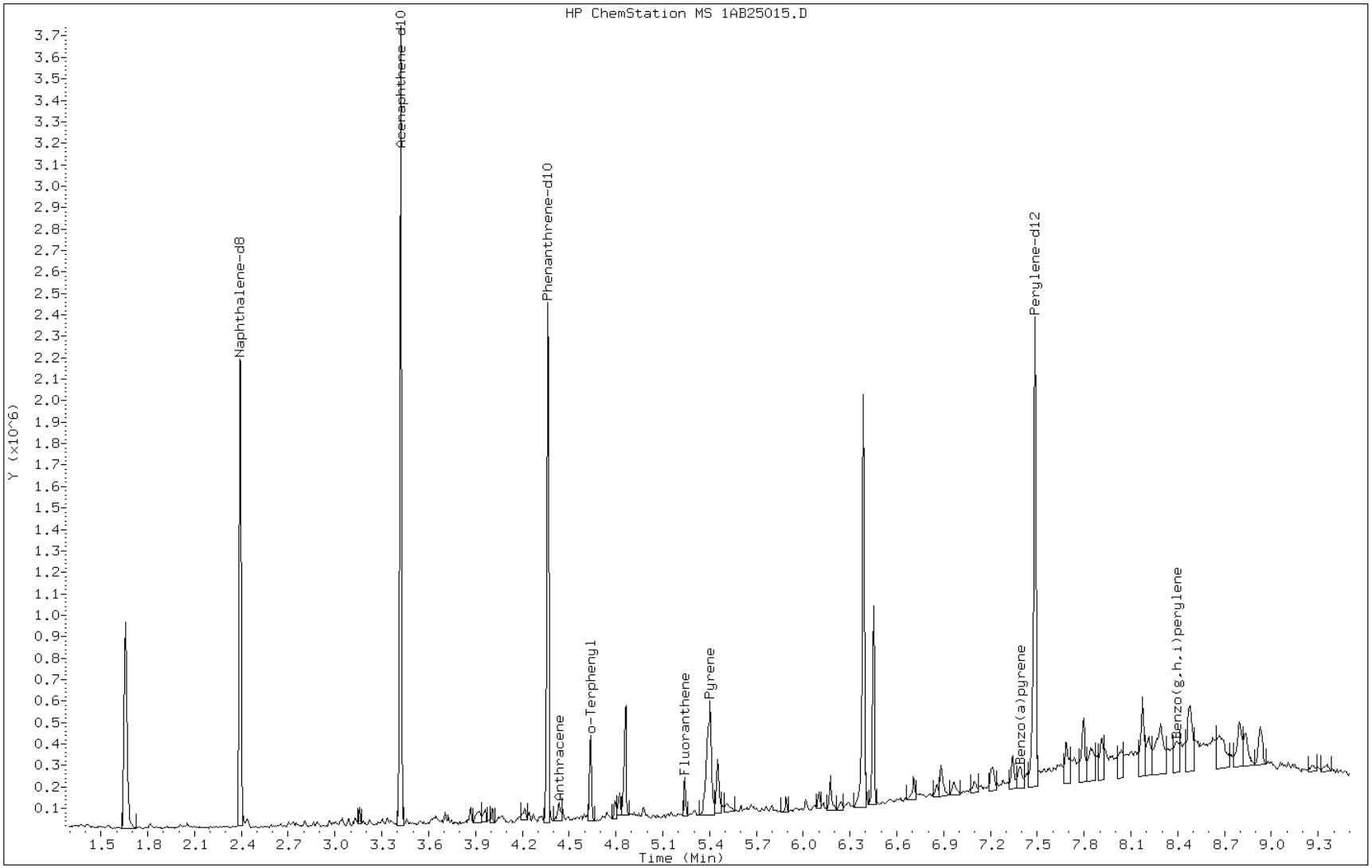
Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A

Operator: SCC



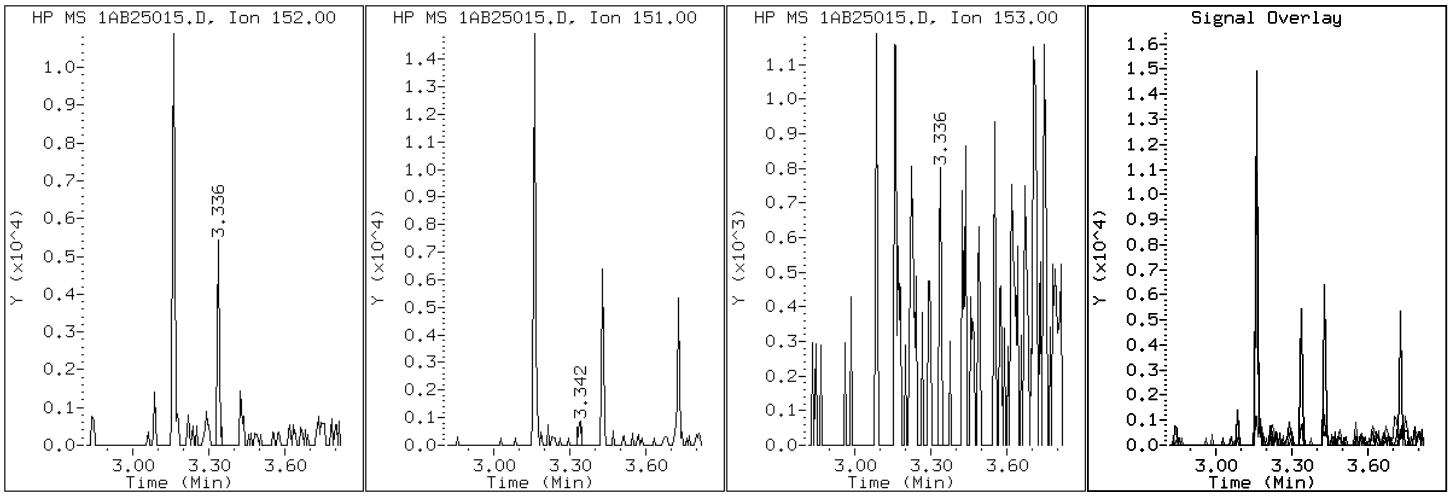
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

5 Acenaphthylene



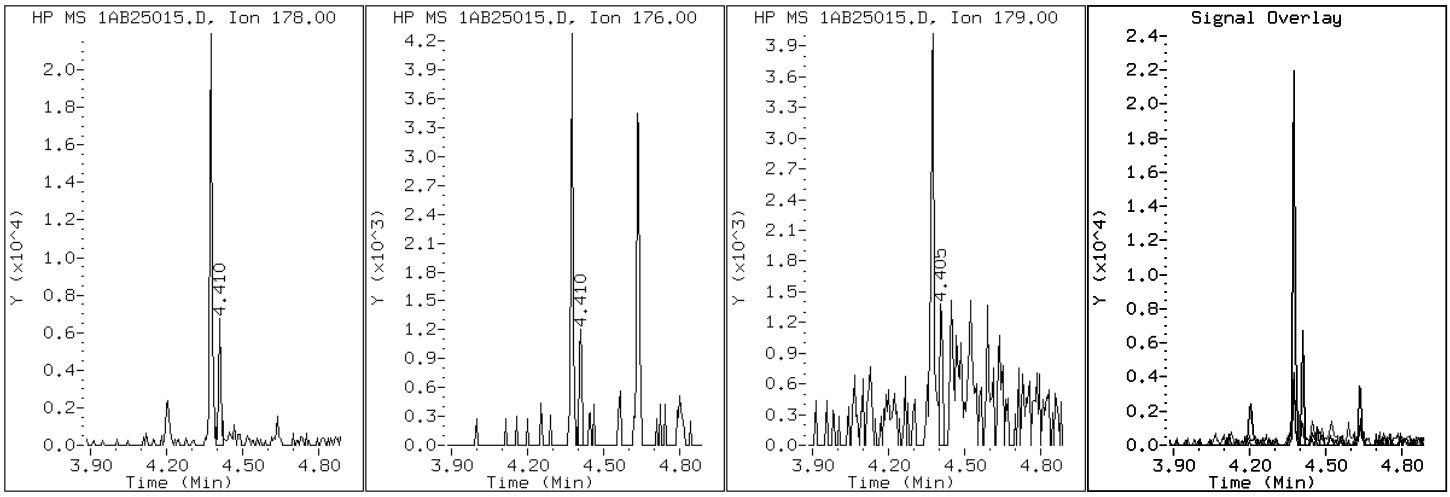
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

12 Anthracene



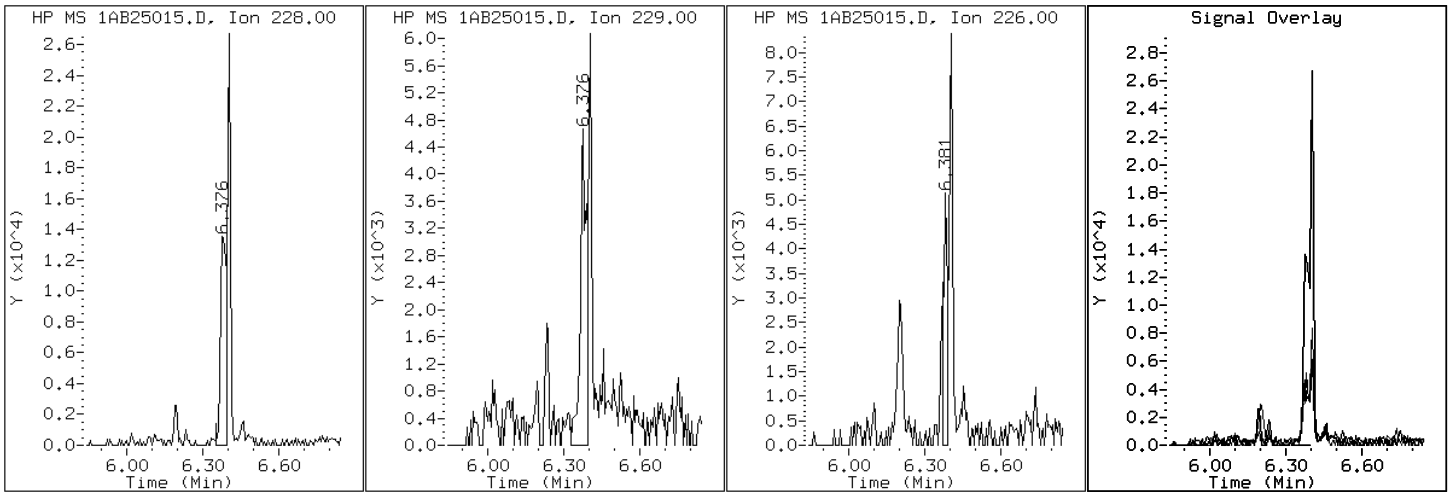
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

17 Benzo(a)anthracene



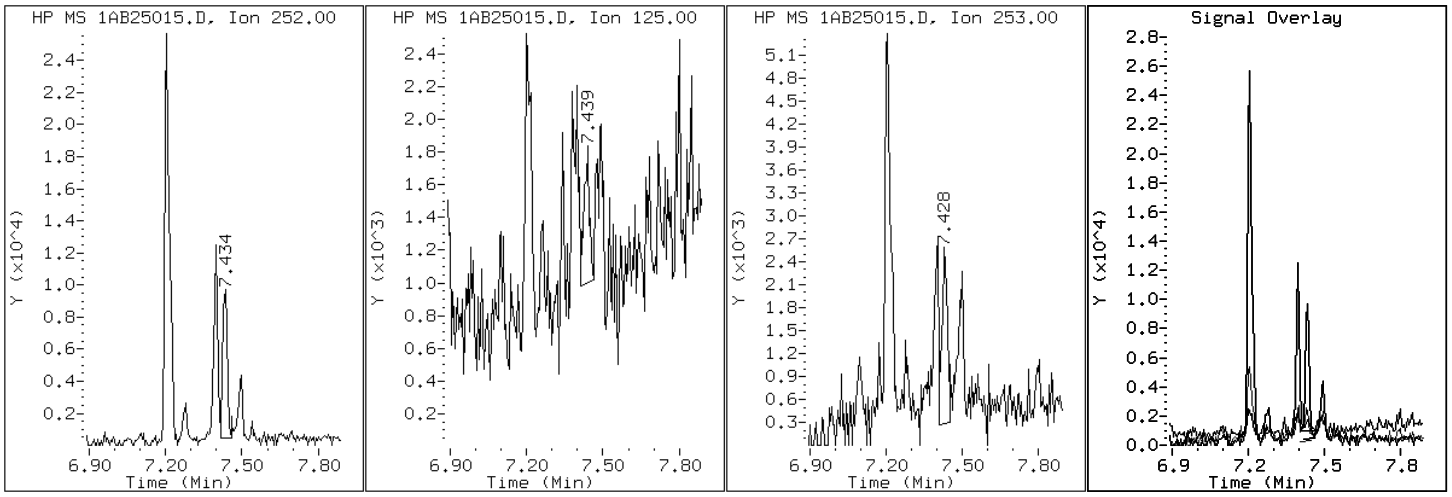
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

22 Benzo(a)pyrene



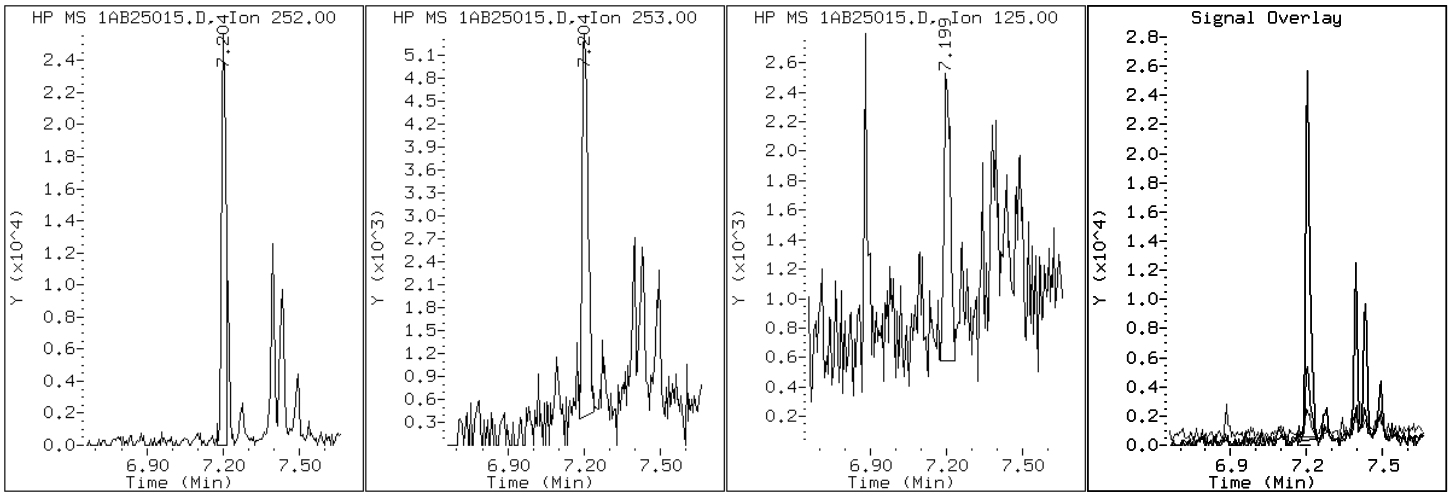
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

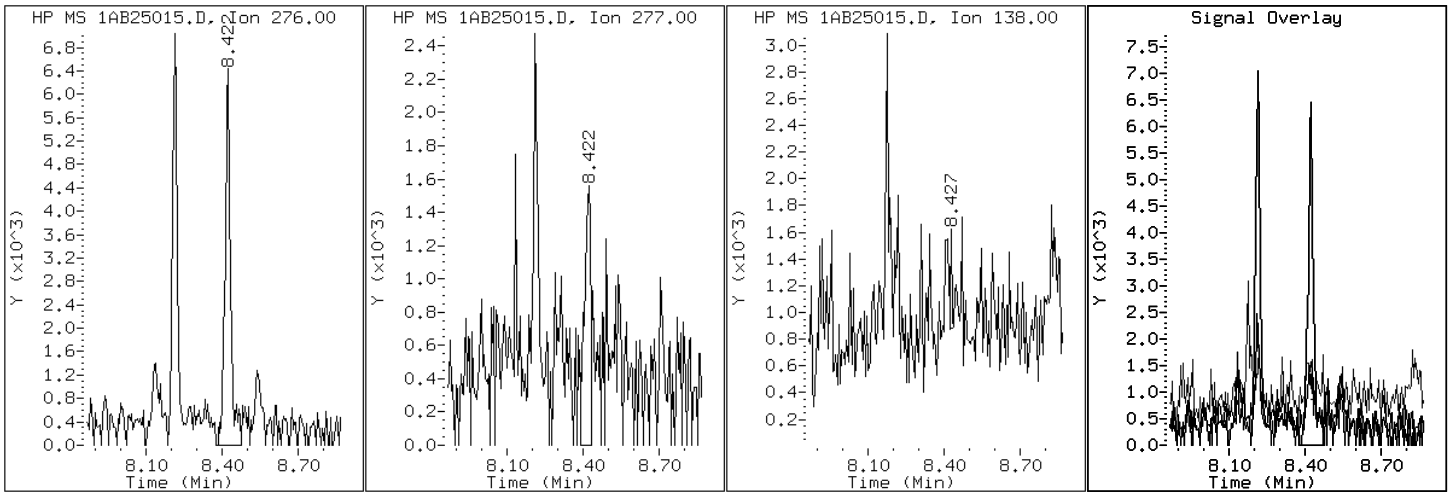
Client ID: FM0161N-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A

Operator: SCC

26 Benzo(g,h,i)perylene



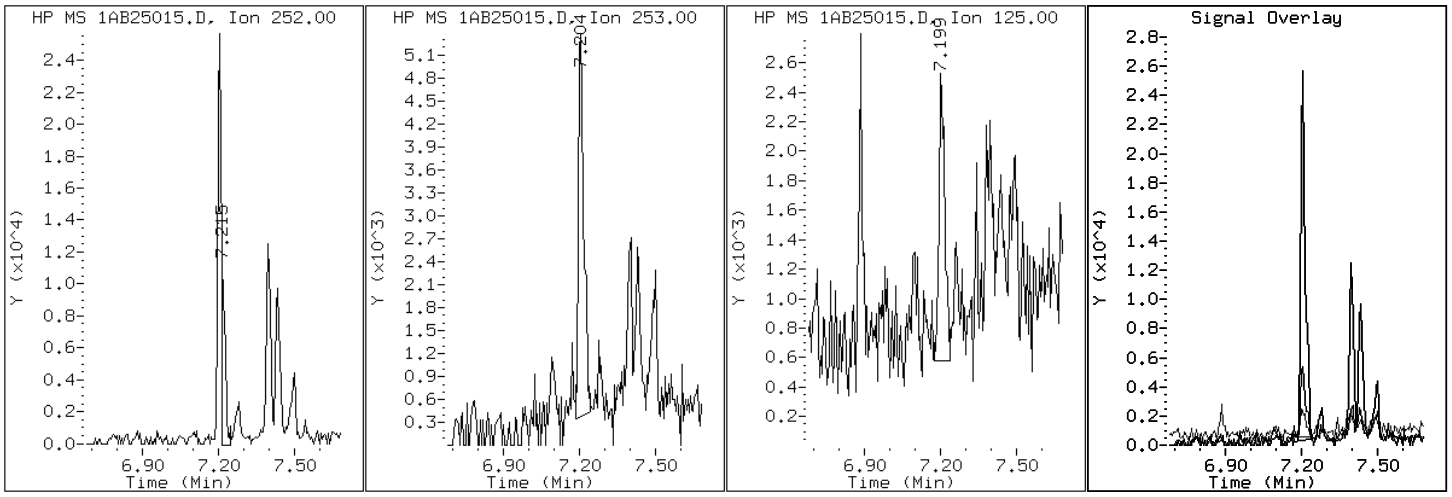
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

21 Benzo(k)fluoranthene



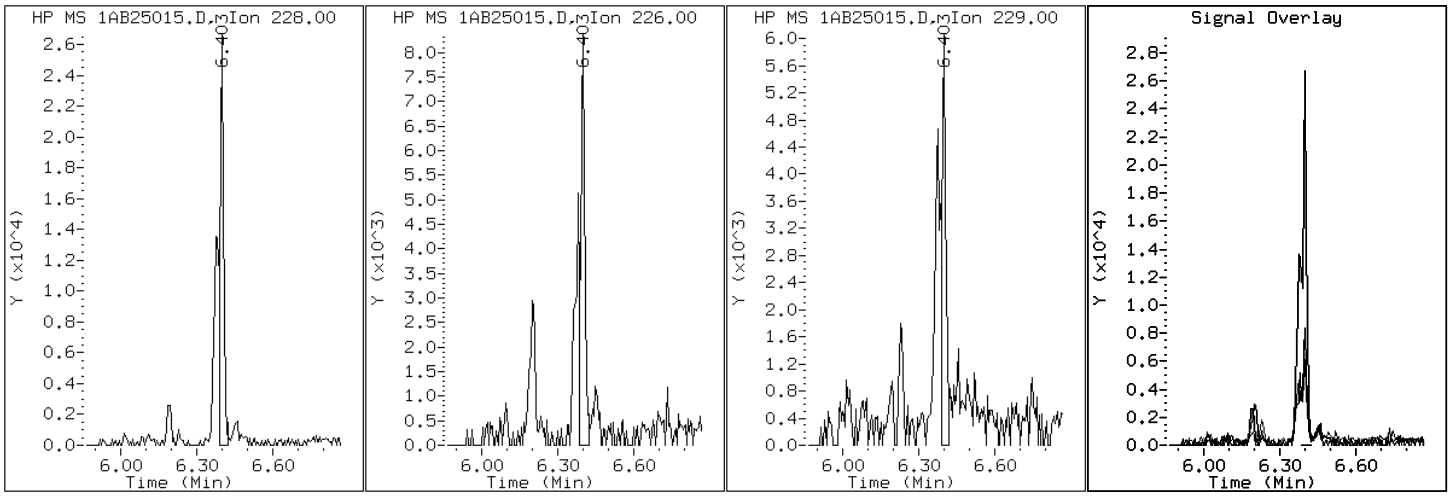
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

19 Chrysene



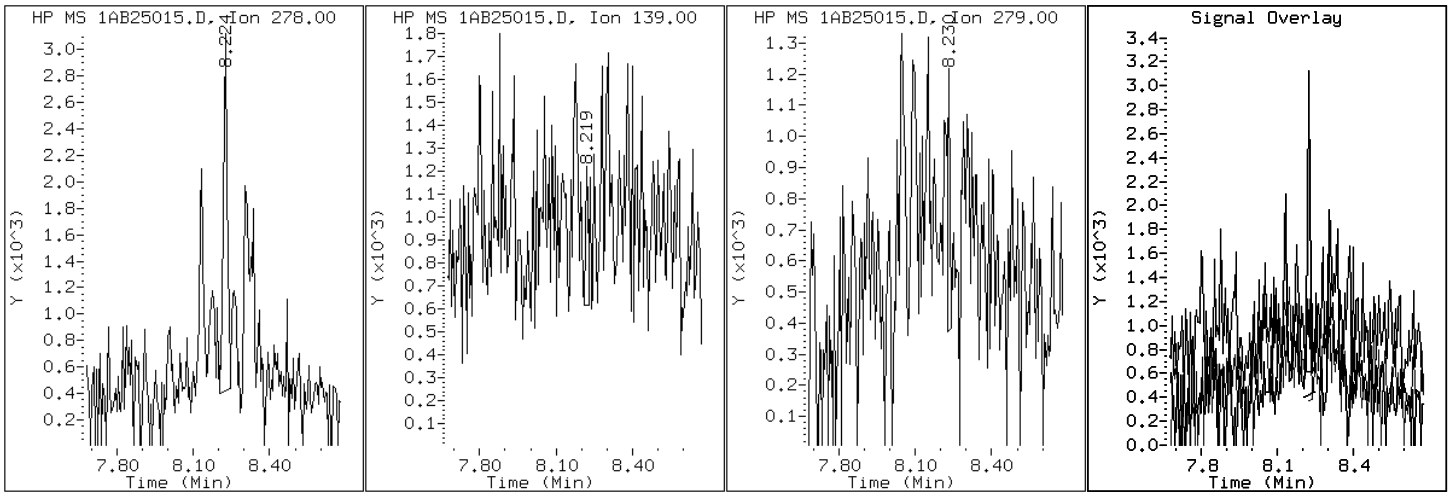
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

25 Dibenzo(a,h)anthracene



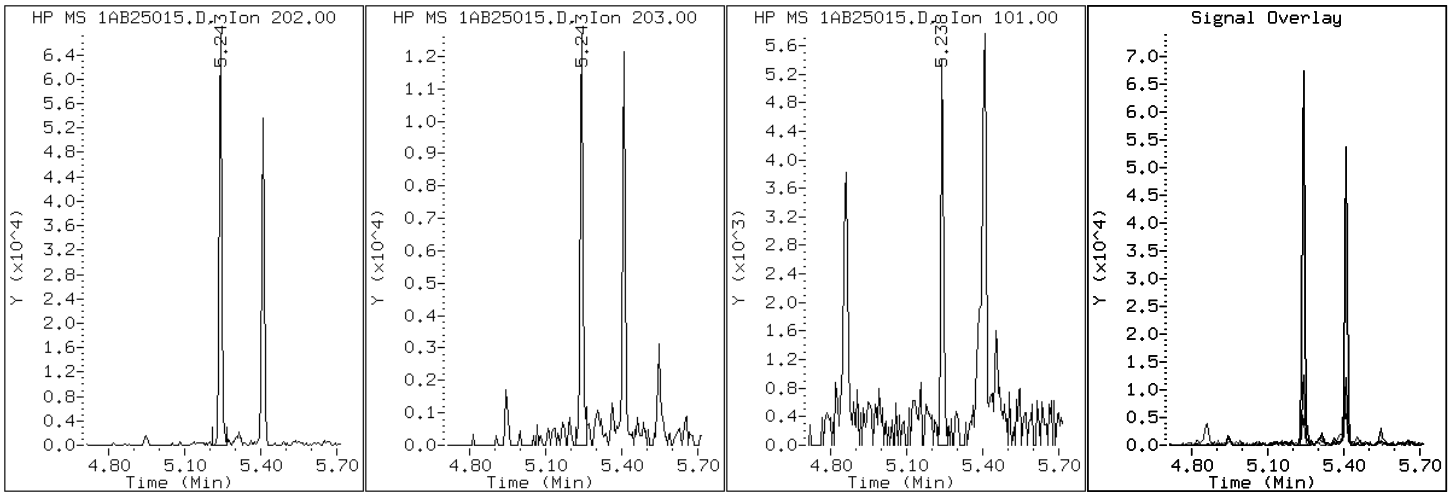
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

15 Fluoranthene



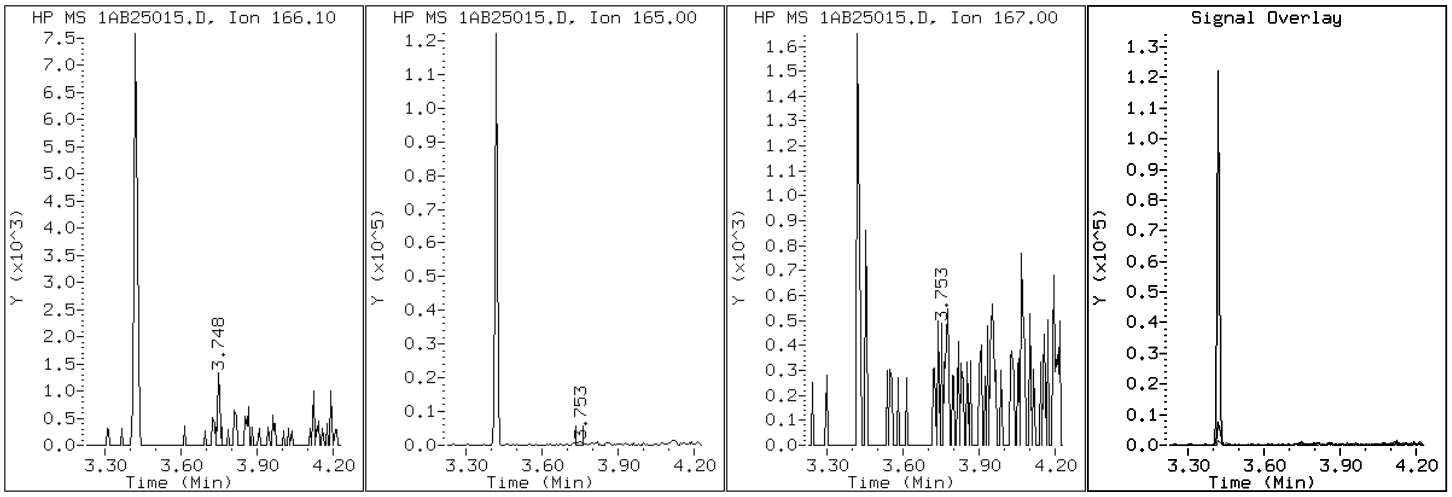
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

9 Fluorene



Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

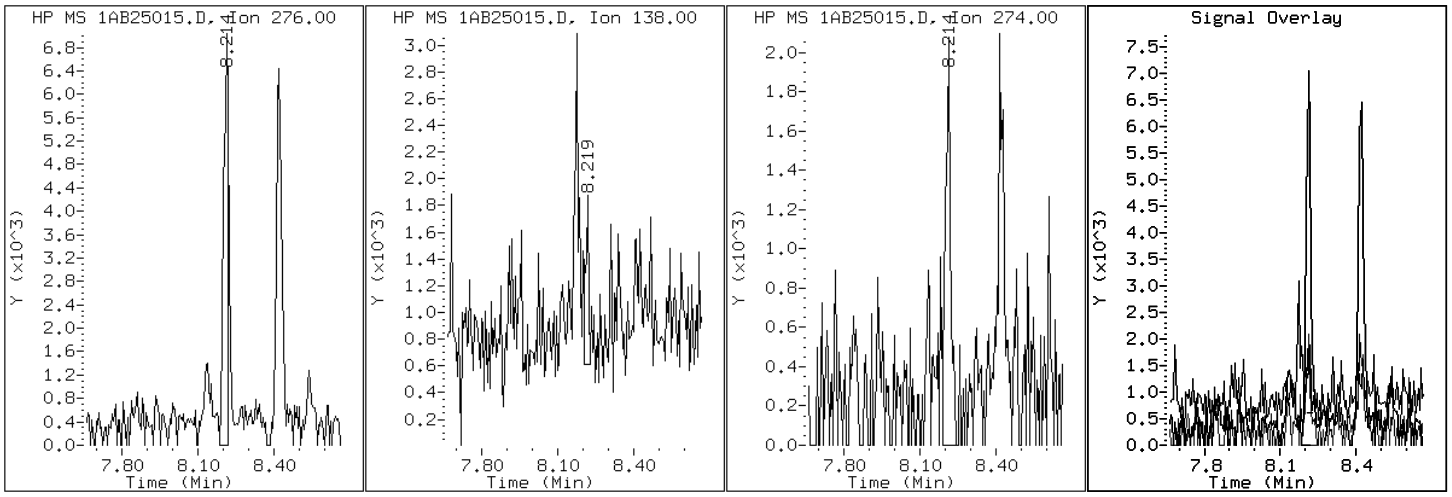
Client ID: FM0161N-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



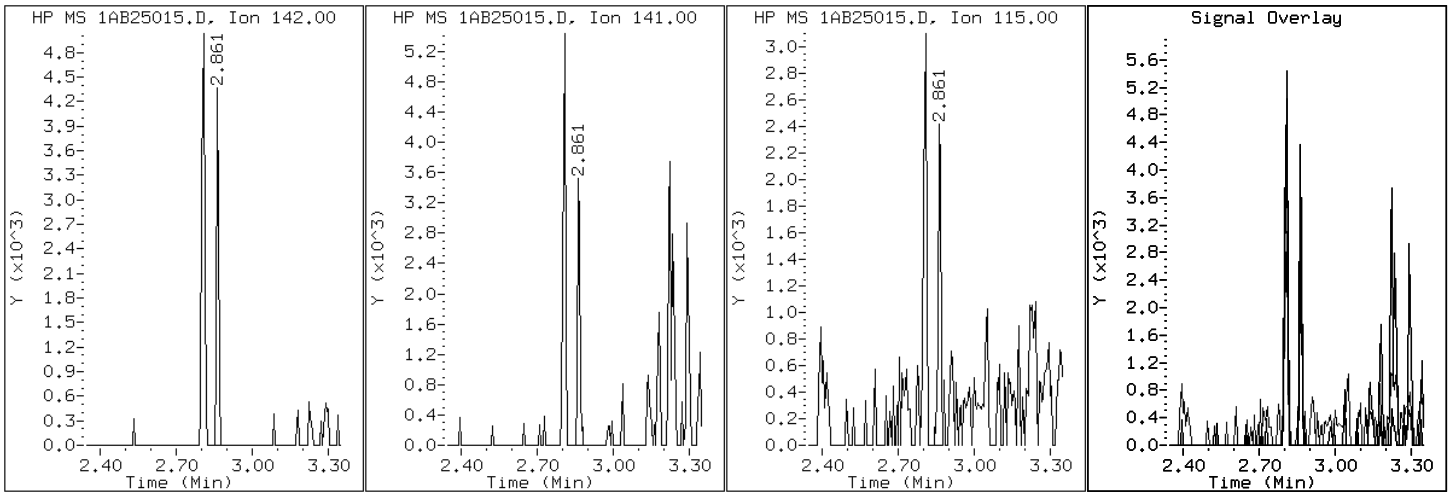
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

4 1-Methylnaphthalene



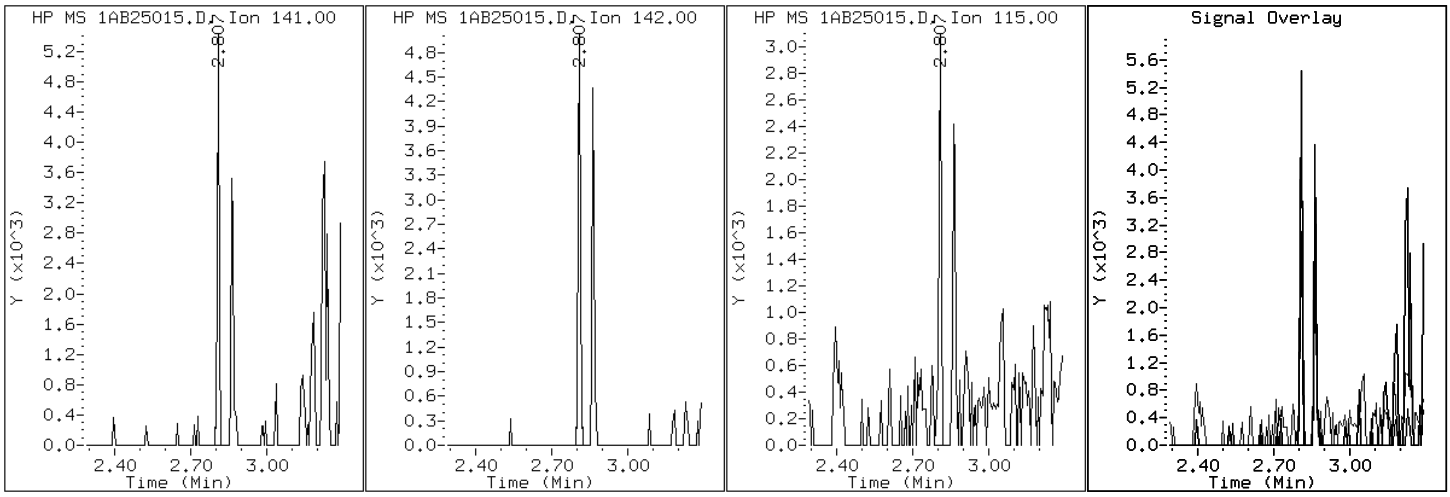
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

3 2-Methylnaphthalene



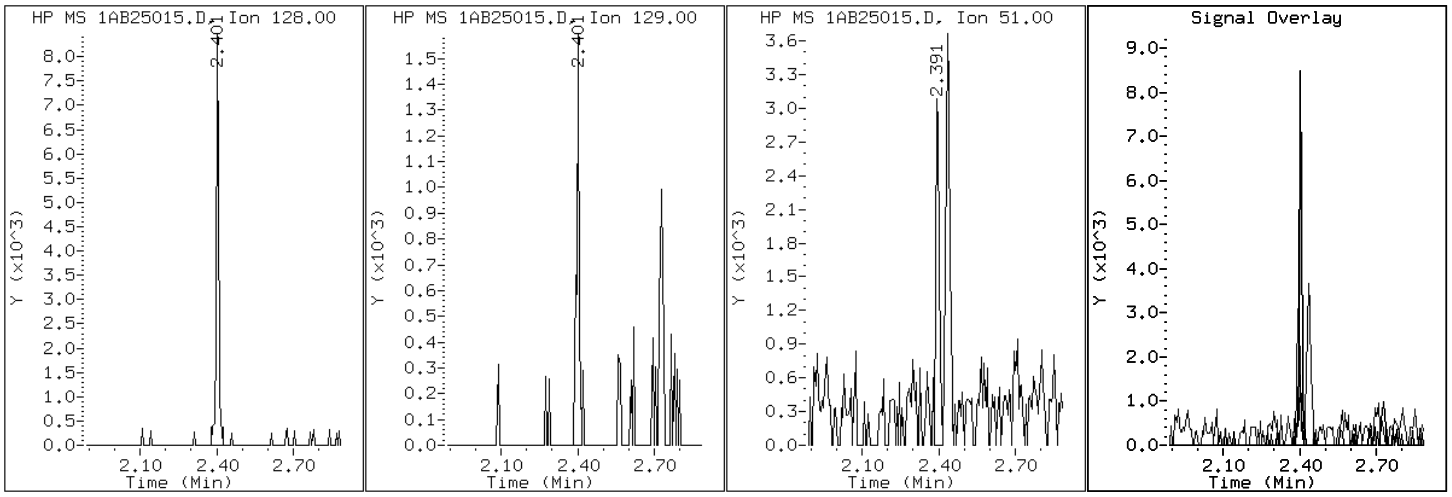
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

2 Naphthalene



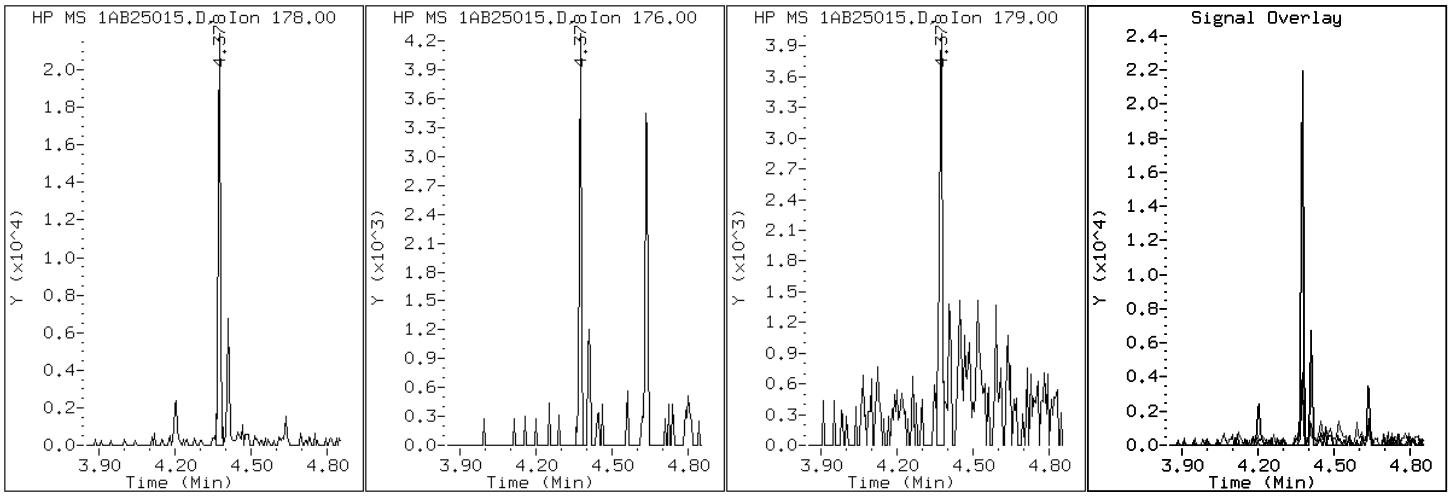
Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

Client ID: FM0161N-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A Operator: SCC

11 Phenanthrene



Data File: 1AB25015.D

Date: 25-FEB-2013 17:15

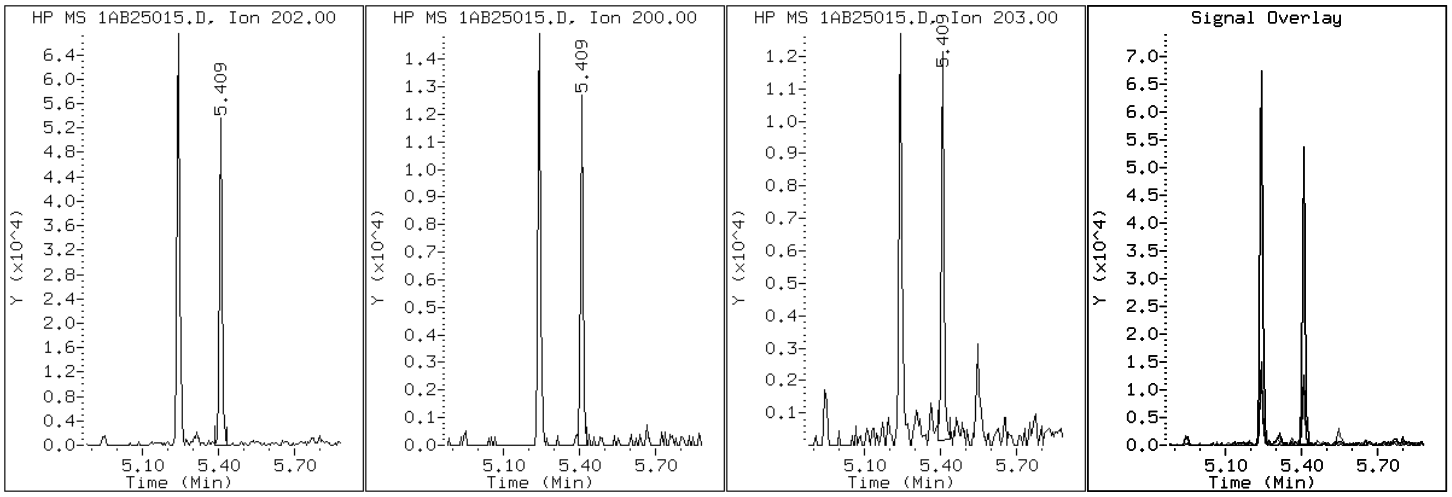
Client ID: FM0161N-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-24-A

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB25015.D
Inj. Date and Time: 25-FEB-2013 17:15
Instrument ID: BSMA5973.i
Client ID: FM0161N-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

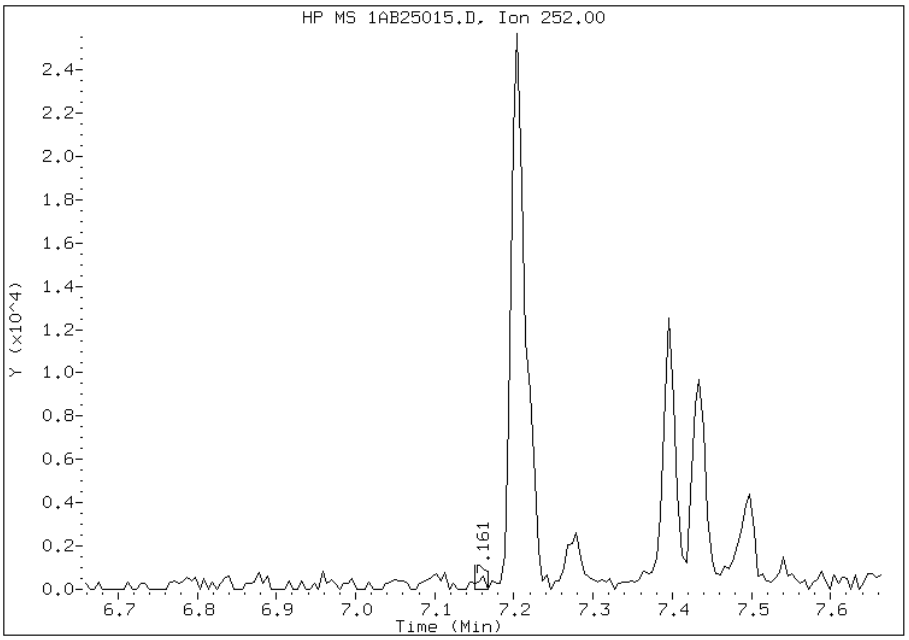
Processing Integration Results

RT: 7.16

Response: 390

Amount: 0

Conc: 1



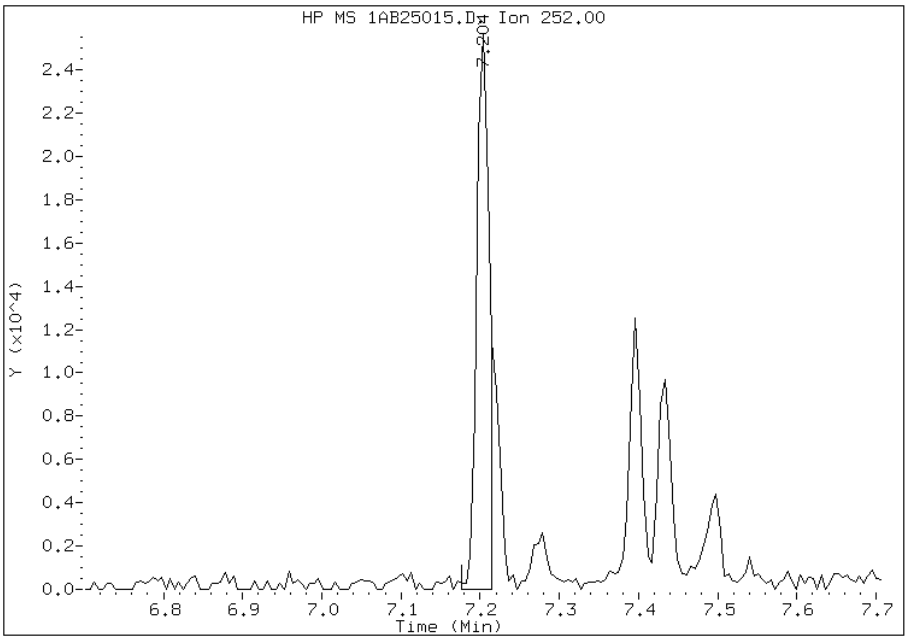
Manual Integration Results

RT: 7.20

Response: 27858

Amount: 1

Conc: 90



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:08
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB25015.D
Inj. Date and Time: 25-FEB-2013 17:15
Instrument ID: BSMA5973.i
Client ID: FM0161N-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/26/2013

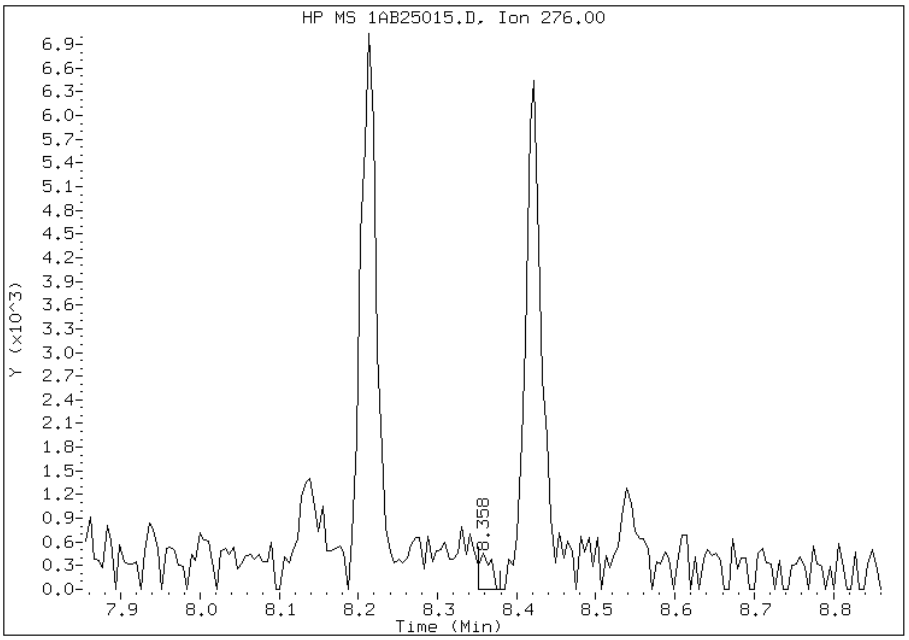
Processing Integration Results

RT: 8.36

Response: 465

Amount: 0

Conc: 2



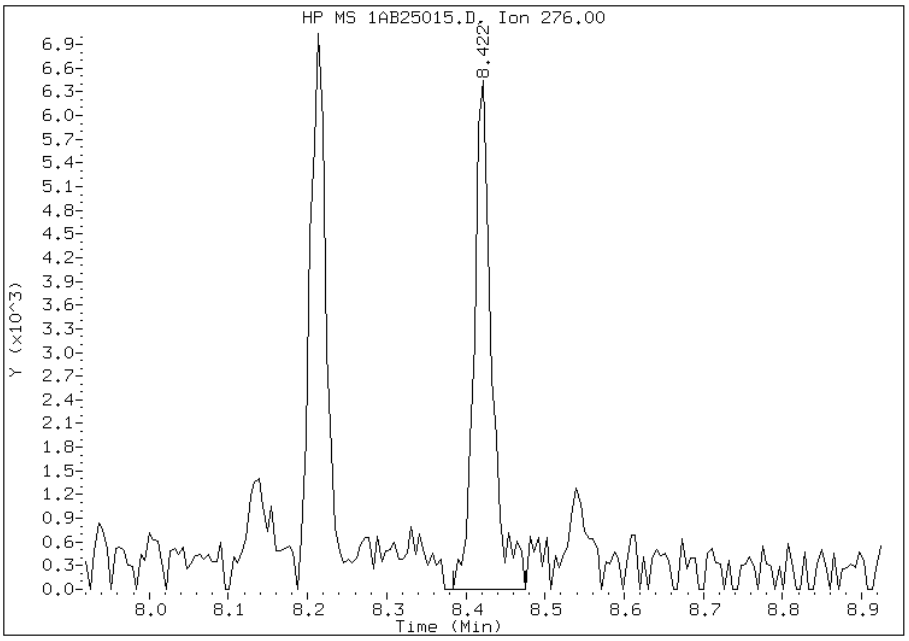
Manual Integration Results

RT: 8.42

Response: 9971

Amount: 1

Conc: 38



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB25015.D
Inj. Date and Time: 25-FEB-2013 17:15
Instrument ID: BSMA5973.i
Client ID: FM0161N-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

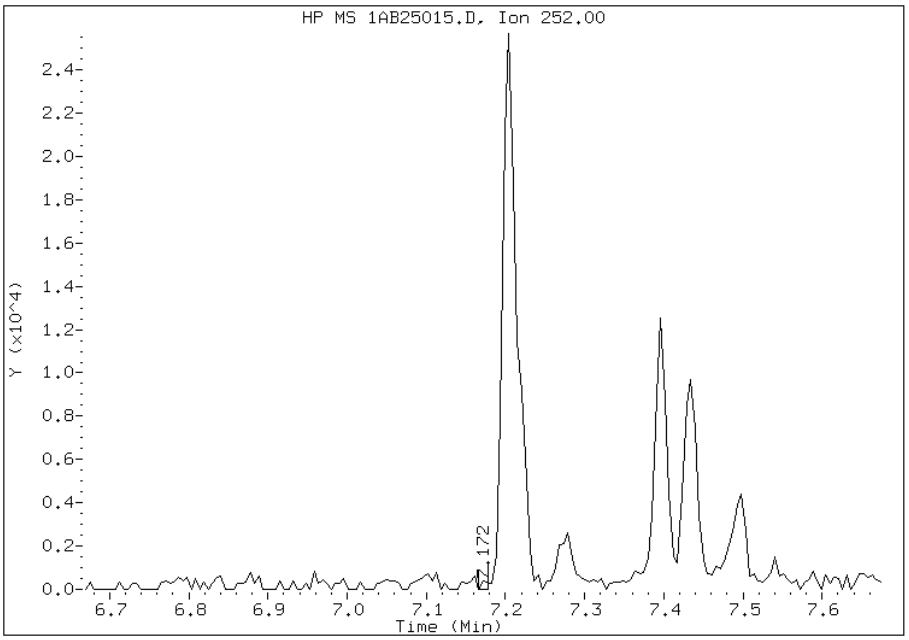
Processing Integration Results

RT: 7.17

Response: 209

Amount: 0

Conc: 1



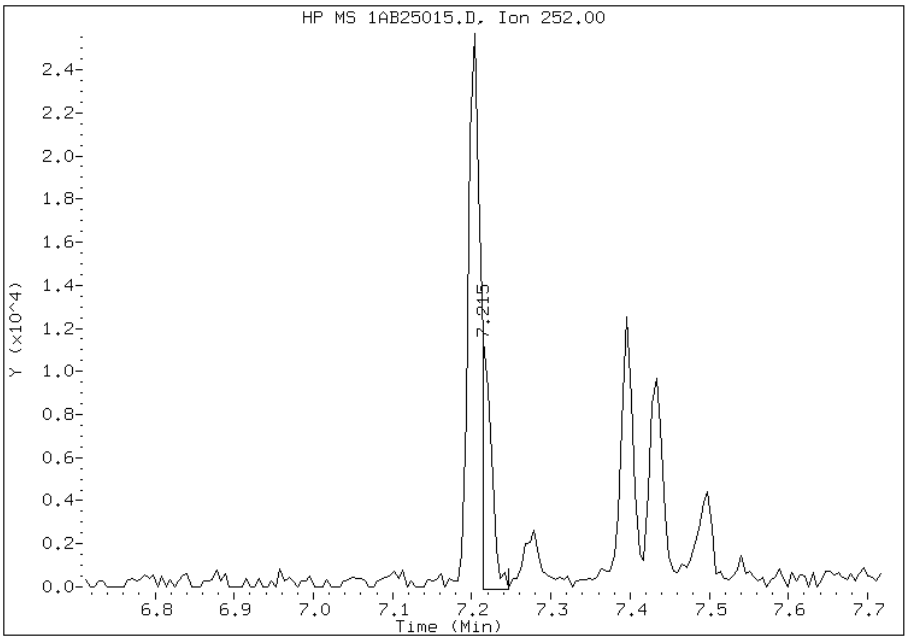
Manual Integration Results

RT: 7.21

Response: 9767

Amount: 0

Conc: 31



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB25015.D
Inj. Date and Time: 25-FEB-2013 17:15
Instrument ID: BSMA5973.i
Client ID: FM0161N-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

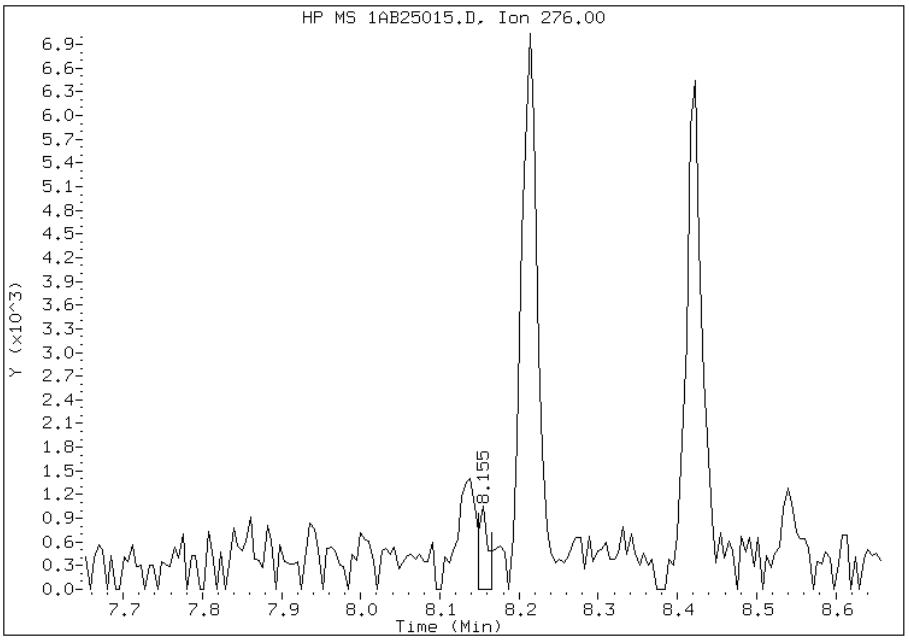
Processing Integration Results

RT: 8.15

Response: 885

Amount: 0

Conc: 4



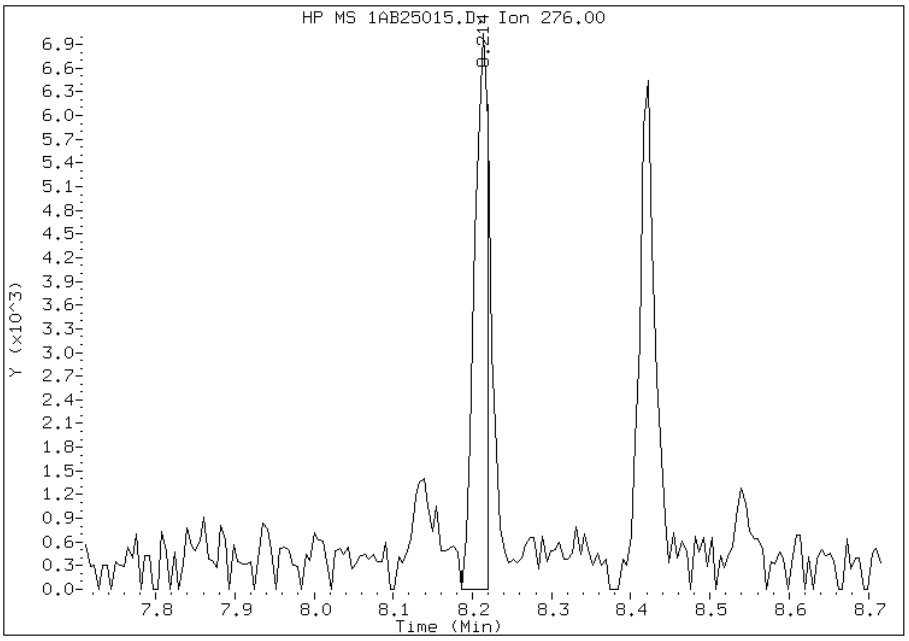
Manual Integration Results

RT: 8.21

Response: 8204

Amount: 0

Conc: 34



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161O-CS | Lab Sample ID: 680-87545-25

Matrix: Solid | Lab File ID: 1AB25016.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 10:24

Extract. Method: 3546 | Date Extracted: 02/21/2013 12:14

Sample wt/vol: 15.27(g) | Date Analyzed: 02/25/2013 17:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 7.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134820 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	21
208-96-8	Acenaphthylene	42	U	42	5.3
120-12-7	Anthracene	10		8.9	4.4
56-55-3	Benzo[a]anthracene	35		8.5	4.1
50-32-8	Benzo[a]pyrene	26		11	5.5
205-99-2	Benzo[b]fluoranthene	46		13	6.5
191-24-2	Benzo[g,h,i]perylene	28		21	4.7
207-08-9	Benzo[k]fluoranthene	15		8.5	3.8
218-01-9	Chrysene	54		9.5	4.8
53-70-3	Dibenz(a,h)anthracene	11	J	21	4.3
206-44-0	Fluoranthene	48		21	4.2
86-73-7	Fluorene	6.6	J	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	25		21	7.5
90-12-0	1-Methylnaphthalene	23	J	42	4.7
91-57-6	2-Methylnaphthalene	28	J	42	7.5
91-20-3	Naphthalene	27	J	42	4.7
85-01-8	Phenanthrene	52		8.5	4.1
129-00-0	Pyrene	42		21	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25016.D
Lab Smp Id: 680-87545-A-25-A Client Smp ID: FM0161O-CS
Inj Date : 25-FEB-2013 17:30
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87545-A-25-A
Misc Info : 680-87545-A-25-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.270	Weight Extracted
M	7.212	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.391	2.379	(1.000)	717800	40.0000	
* 6 Acenaphthene-d10	164	3.422	3.404	(1.000)	522231	40.0000	
* 10 Phenanthrene-d10	188	4.362	4.339	(1.000)	730678	40.0000	
$ 14 o-Terphenyl	230	4.640	4.622	(1.064)	64136	6.03228	425.7482
* 18 Chrysene-d12	240	6.387	6.353	(1.000)	674782	40.0000	(H)
* 23 Perylene-d12	264	7.487	7.443	(1.000)	832896	40.0000	(H)
2 Naphthalene	128	2.401	2.389	(1.004)	6598	0.38147	26.9234(Q)
3 2-Methylnaphthalene	141	2.807	2.790	(1.174)	3588	0.40184	28.3610
4 1-Methylnaphthalene	142	2.861	2.849	(1.197)	3176	0.31942	22.5441
9 Fluorene	166	3.748	3.730	(1.095)	1327	0.09332	6.5860
11 Phenanthrene	178	4.378	4.355	(1.004)	13311	0.73290	51.7265
12 Anthracene	178	4.410	4.387	(1.011)	2581	0.14630	10.3256
13 Carbazole	167	4.570	4.542	(1.048)	1853	0.11898	8.3977
15 Fluoranthene	202	5.238	5.215	(1.201)	12304	0.67755	47.8201

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.404	5.381	(0.846)	11805	0.59644	42.0960(H)
17 Benzo(a)anthracene	228	6.381	6.342	(0.999)	9998	0.49622	35.0221(H)
19 Chrysene	228	6.403	6.369	(1.002)	13775	0.76443	53.9525(H)
20 Benzo(b)fluoranthene	252	7.204	7.165	(0.962)	13771	0.65223	46.0329(MH)
21 Benzo(k)fluoranthene	252	7.215	7.181	(0.964)	4420	0.20808	14.6859(MH)
22 Benzo(a)pyrene	252	7.434	7.390	(0.993)	7025	0.36332	25.6421(H)
24 Indeno(1,2,3-cd)pyrene	276	8.214	8.164	(1.097)	5795	0.34934	24.6558(MH)
25 Dibenzo(a,h)anthracene	278	8.224	8.180	(1.098)	2576	0.14902	10.5174(H)
26 Benzo(g,h,i)perylene	276	8.422	8.367	(1.125)	6933	0.39295	27.7334(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB25016.D

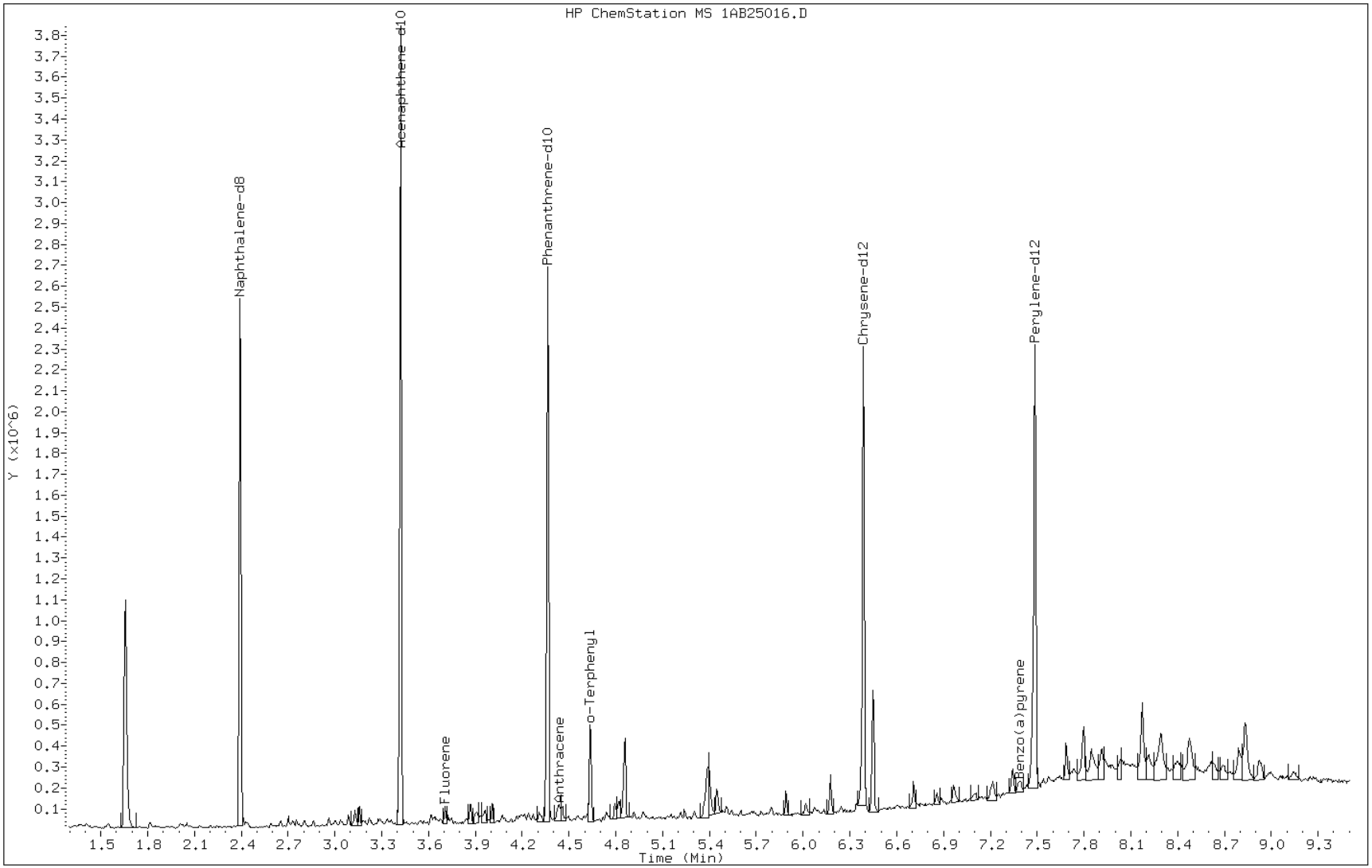
Date: 25-FEB-2013 17:30

Client ID: FM0161O-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A

Operator: SCC



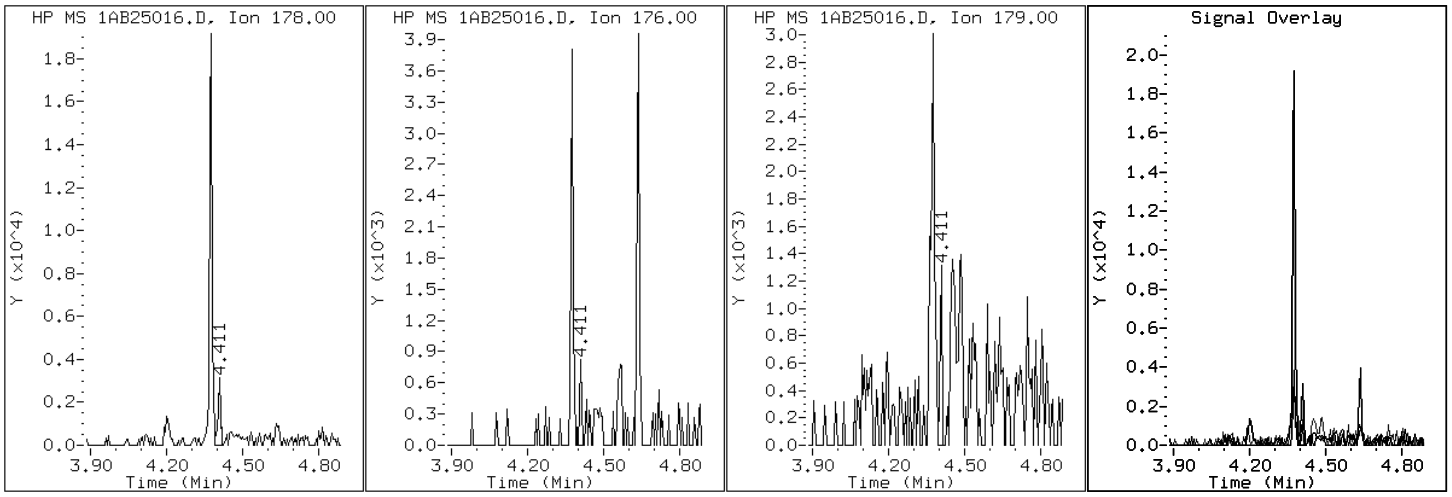
Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

Client ID: FM0161O-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A Operator: SCC

12 Anthracene



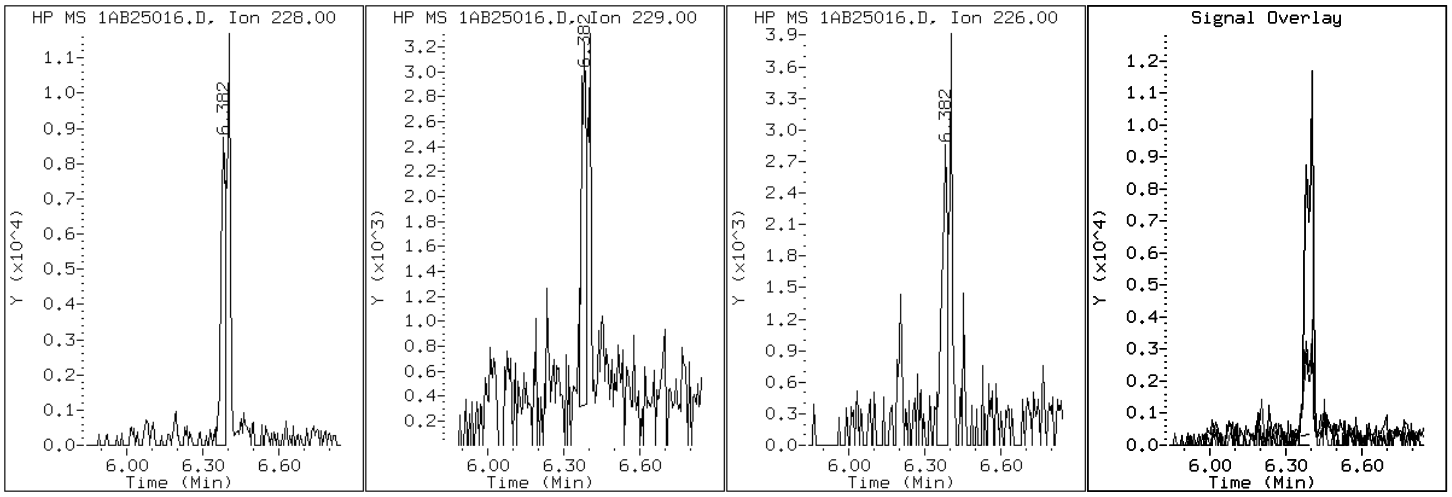
Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

Client ID: FM0161O-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A Operator: SCC

17 Benzo(a)anthracene



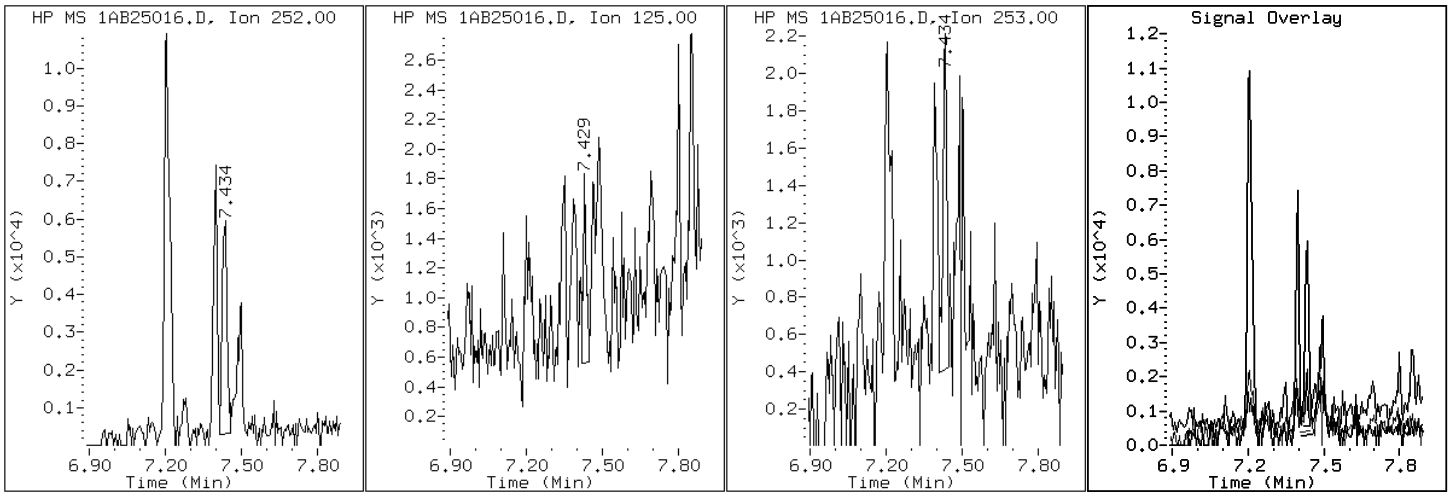
Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

Client ID: FM0161O-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

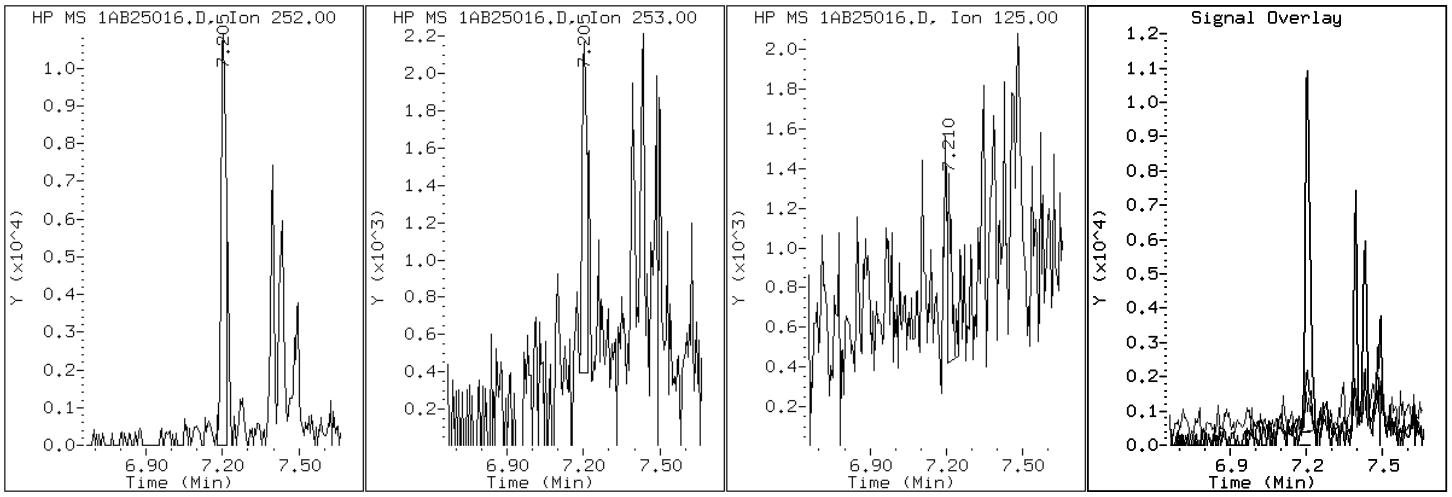
Client ID: FM0161O-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

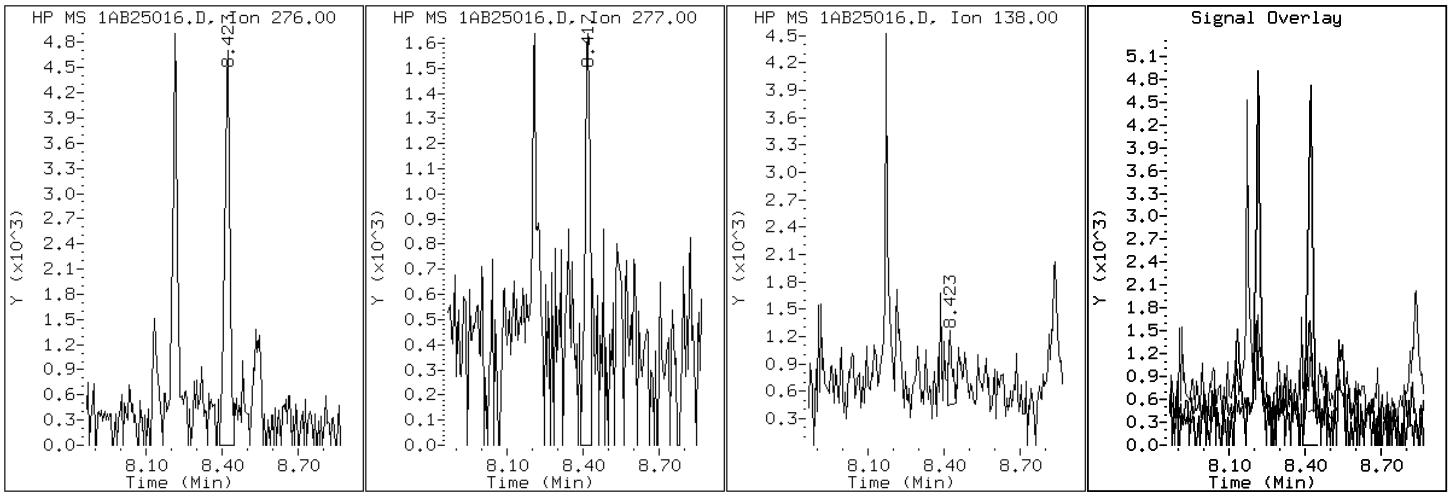
Client ID: FM0161O-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

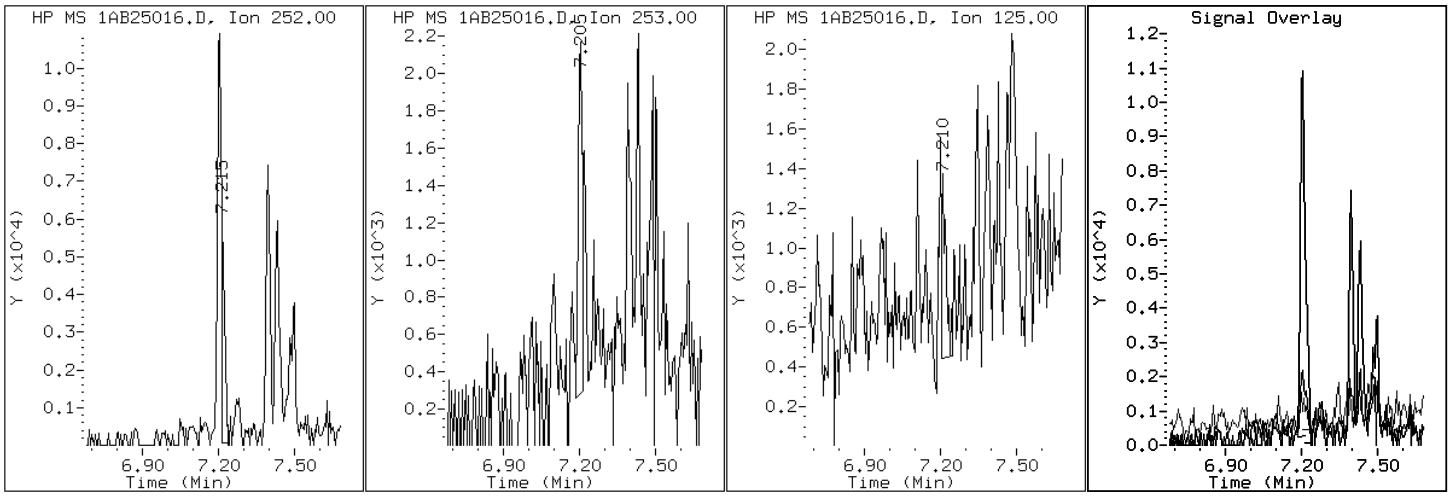
Client ID: FM0161O-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A

Operator: SCC

21 Benzo(k)fluoranthene



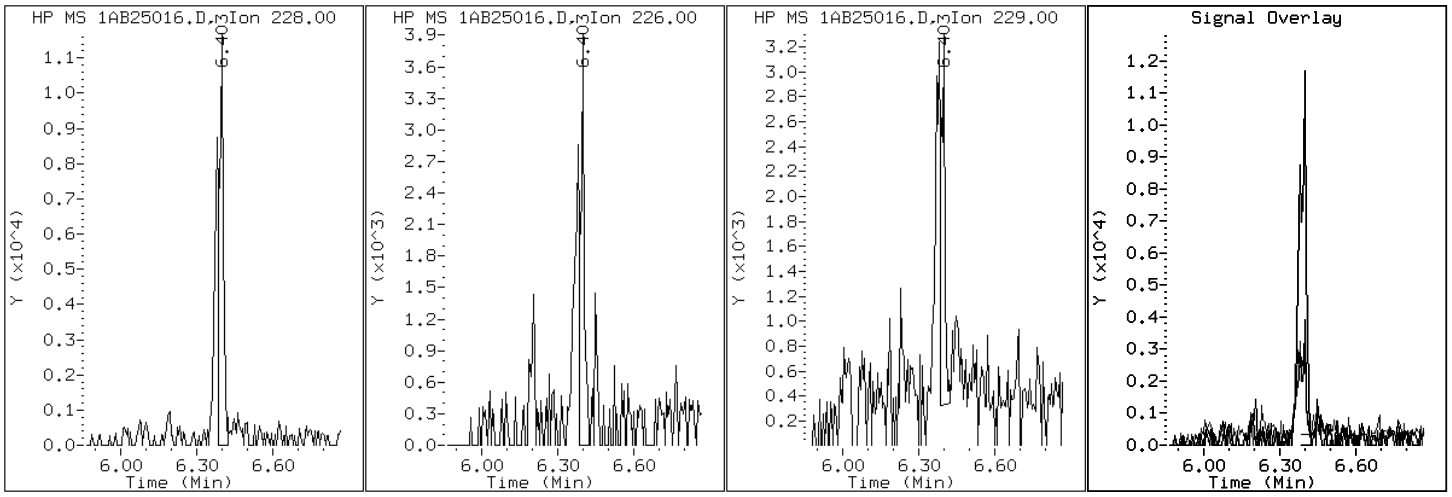
Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

Client ID: FM0161O-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A Operator: SCC

19 Chrysene



Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

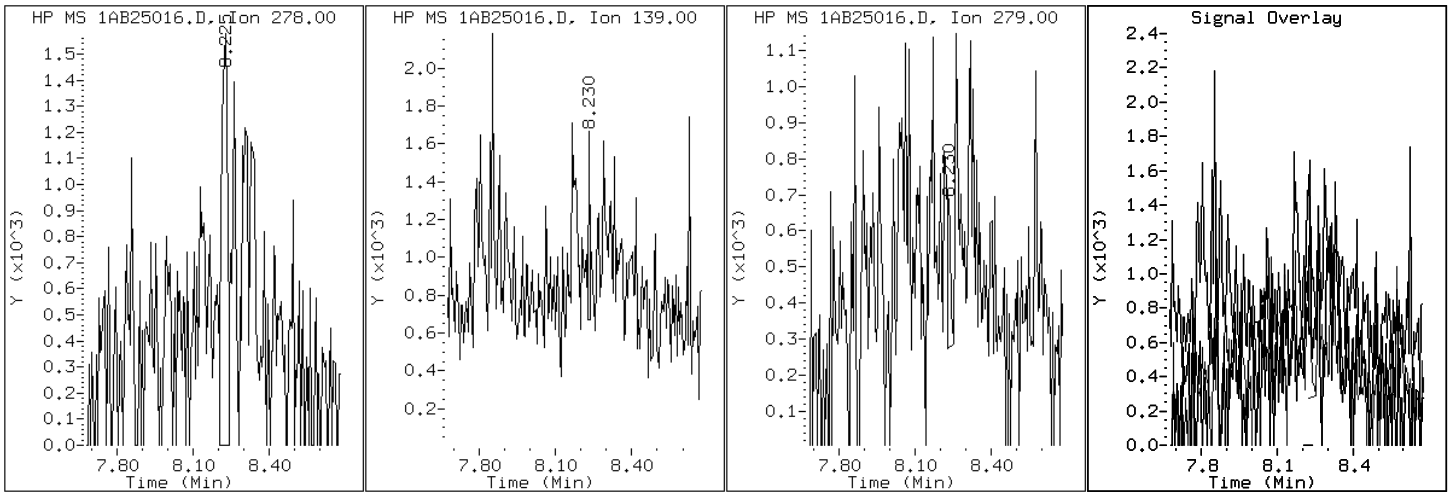
Client ID: FM0161O-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A

Operator: SCC

25 Dibenzo(a,h)anthracene



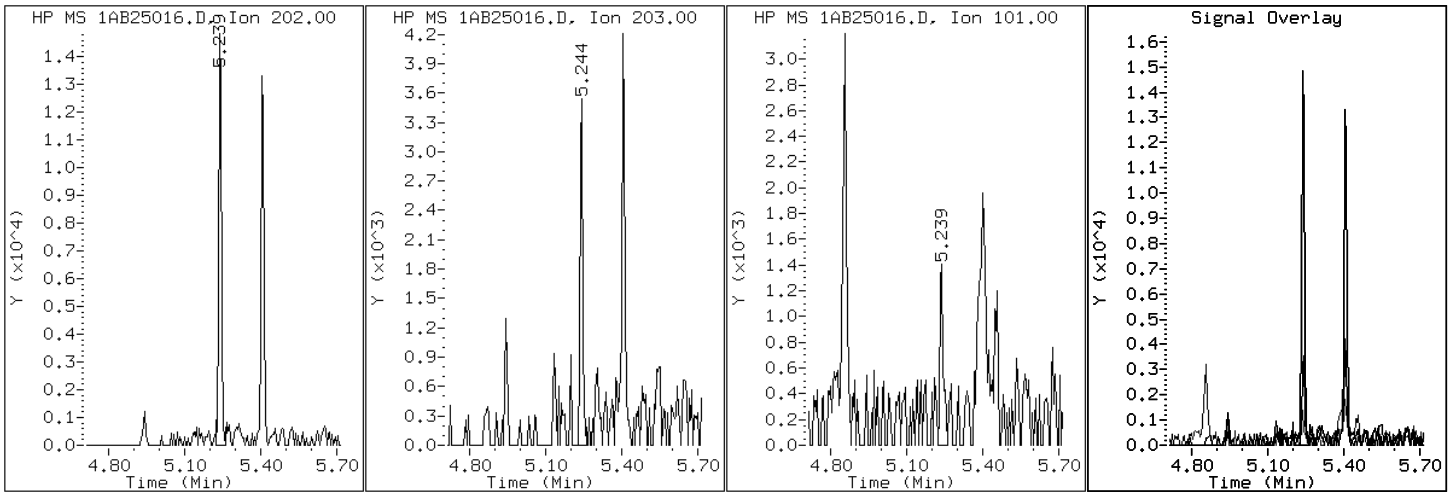
Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

Client ID: FM0161O-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A Operator: SCC

15 Fluoranthene



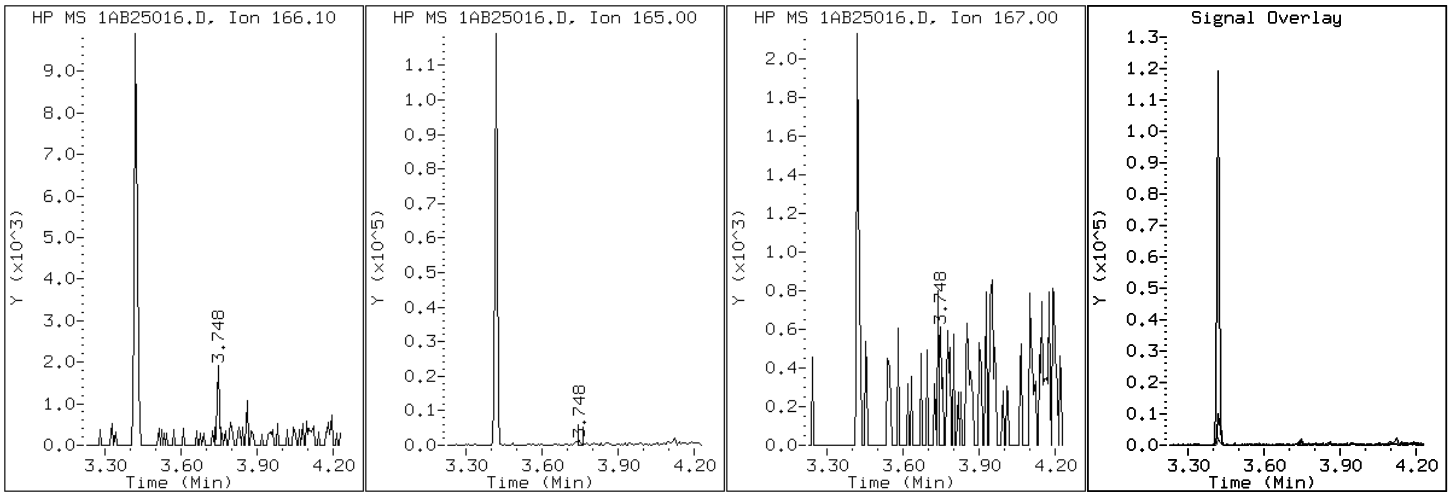
Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

Client ID: FM0161O-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A Operator: SCC

9 Fluorene



Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

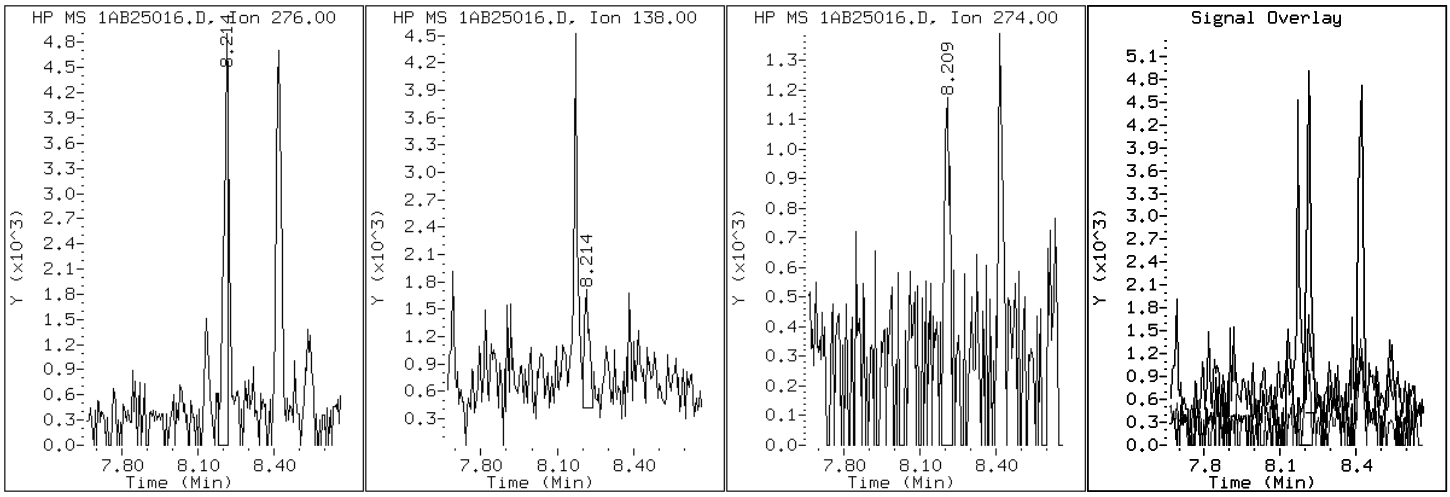
Client ID: FM0161O-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



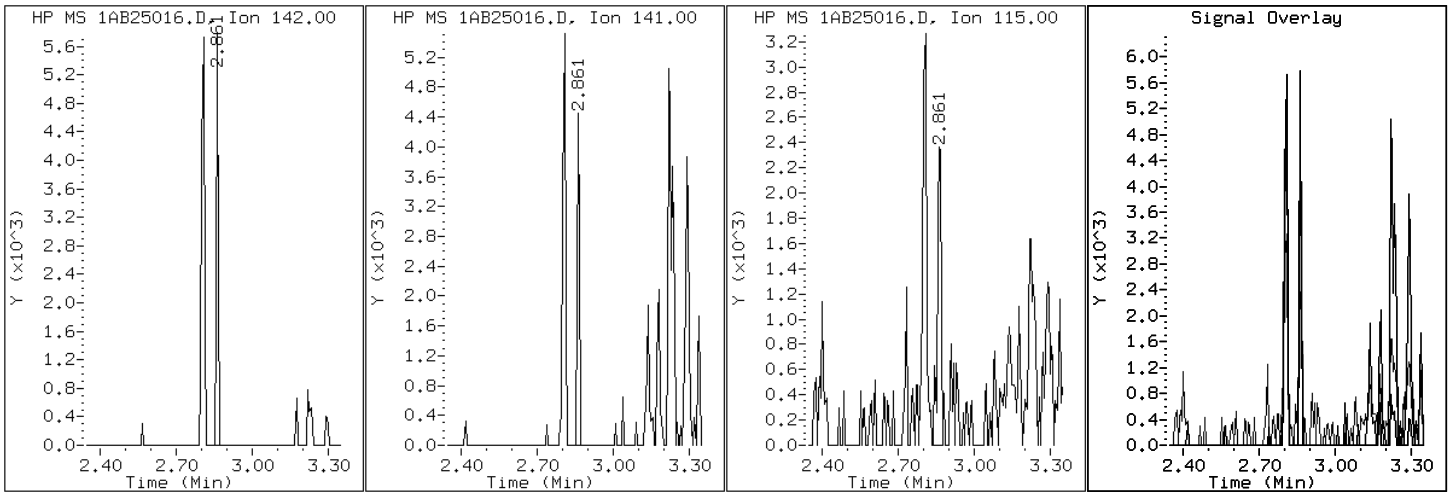
Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

Client ID: FM0161O-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A Operator: SCC

4 1-Methylnaphthalene



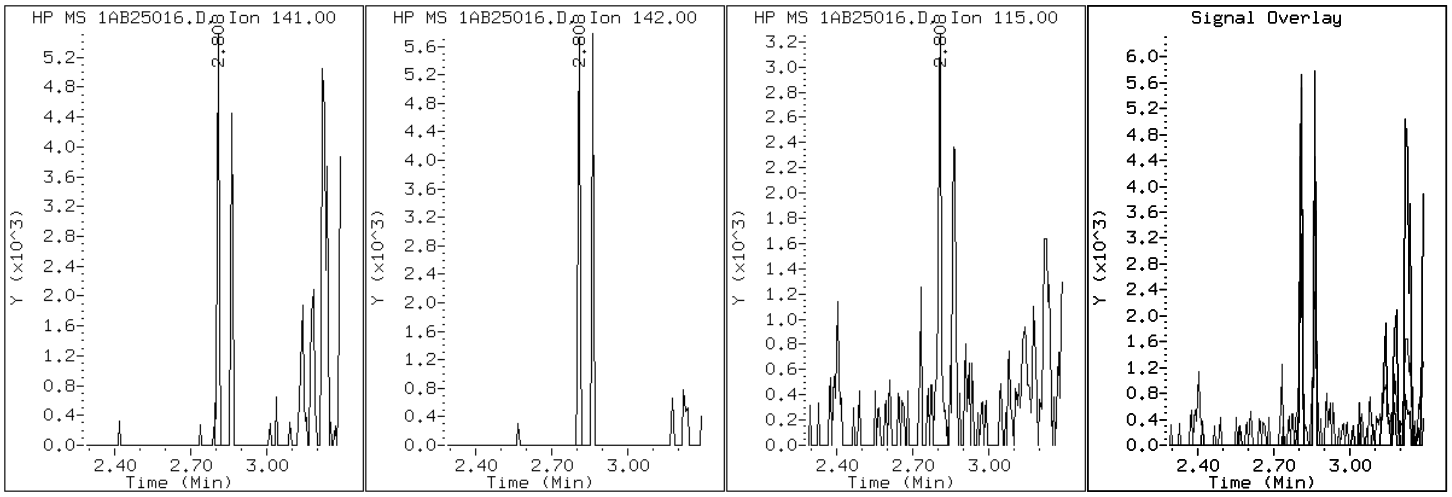
Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

Client ID: FM0161O-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

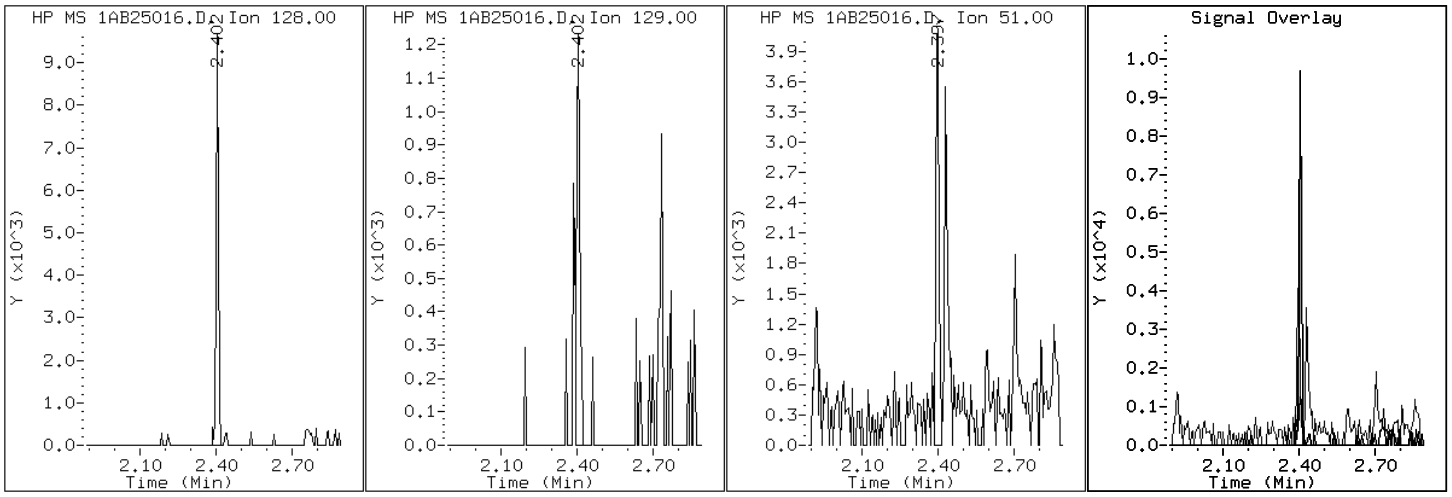
Client ID: FM0161O-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A

Operator: SCC

2 Naphthalene



Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

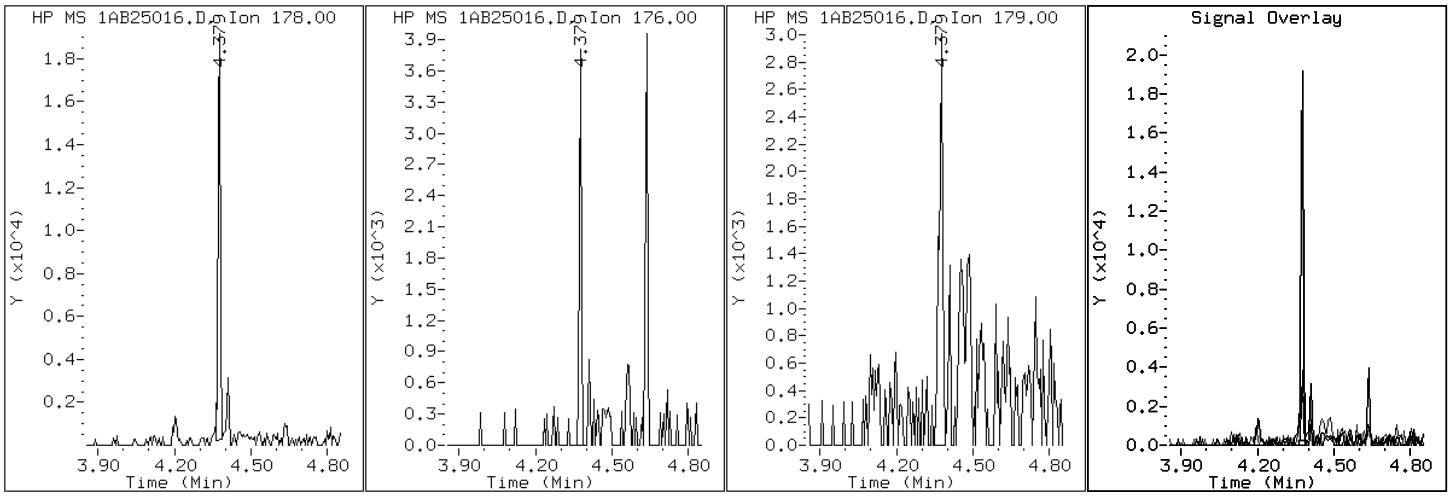
Client ID: FM0161O-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A

Operator: SCC

11 Phenanthrene



Data File: 1AB25016.D

Date: 25-FEB-2013 17:30

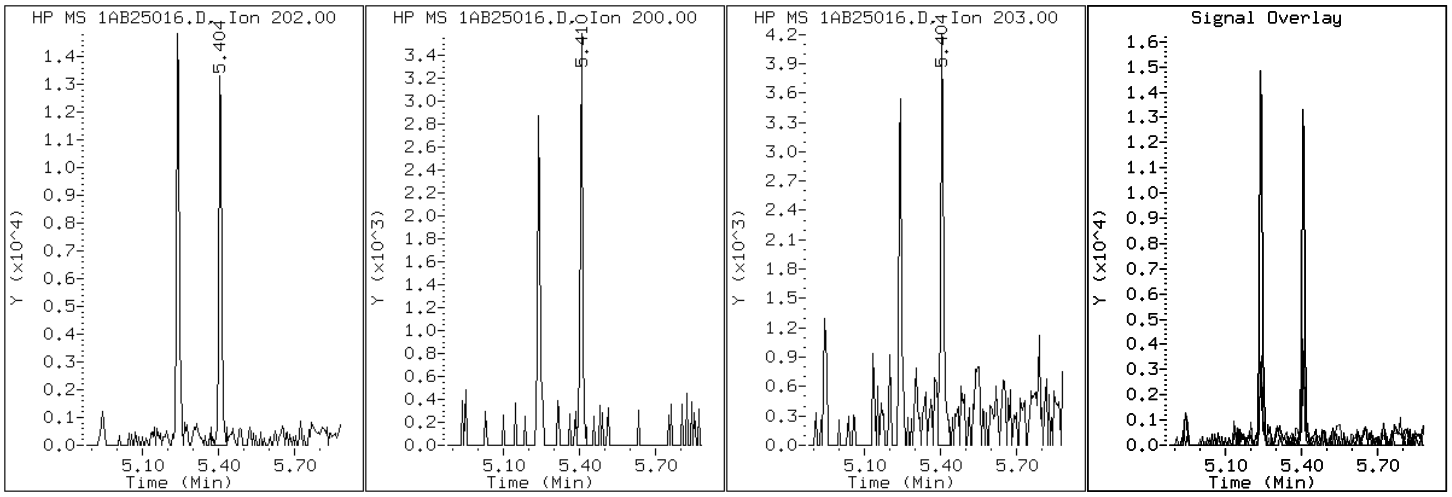
Client ID: FM0161O-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-25-A

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB25016.D
Inj. Date and Time: 25-FEB-2013 17:30
Instrument ID: BSMA5973.i
Client ID: FM0161O-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

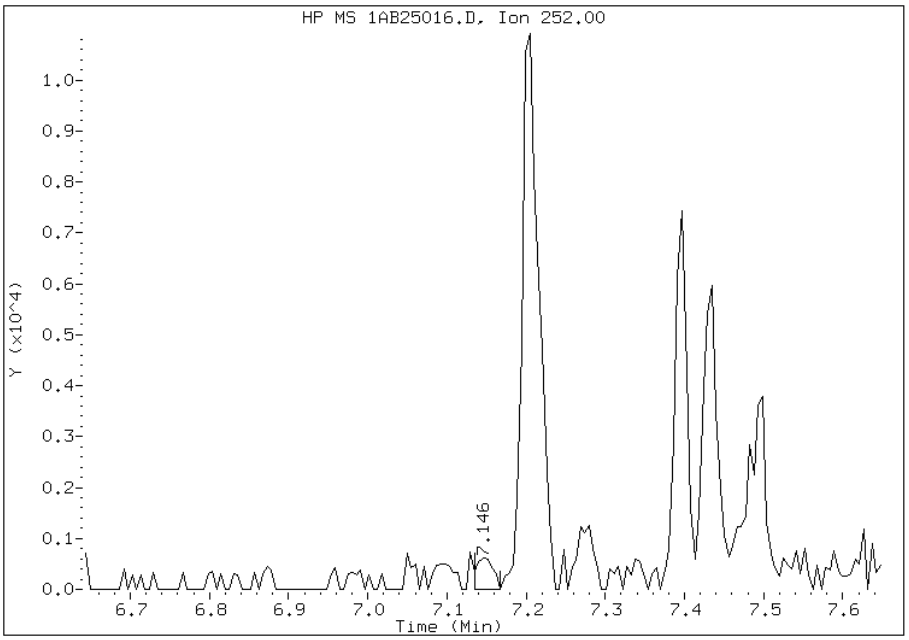
Processing Integration Results

RT: 7.15

Response: 912

Amount: 0

Conc: 3



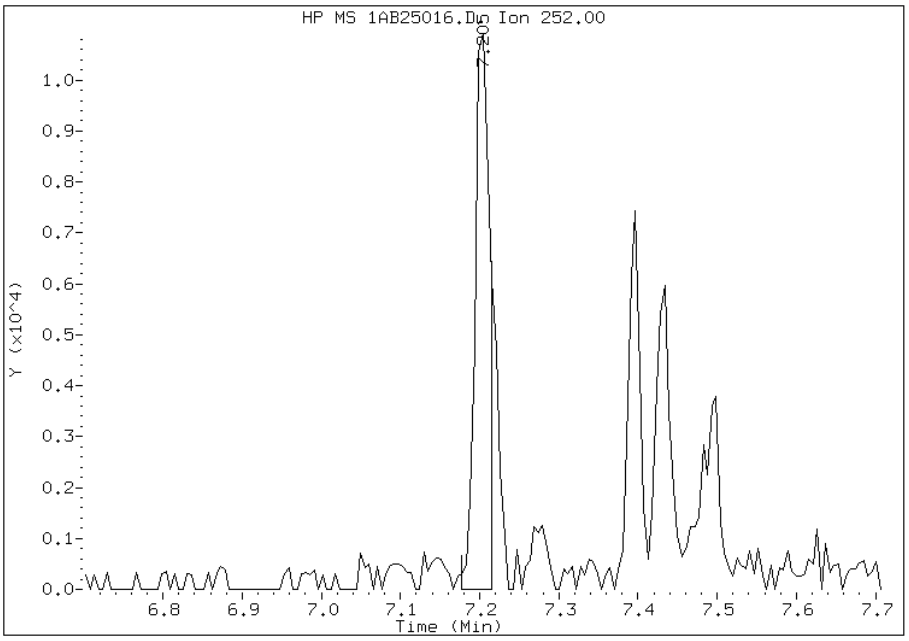
Manual Integration Results

RT: 7.20

Response: 13771

Amount: 1

Conc: 46



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:11
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB25016.D
Inj. Date and Time: 25-FEB-2013 17:30
Instrument ID: BSMA5973.i
Client ID: FM0161O-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

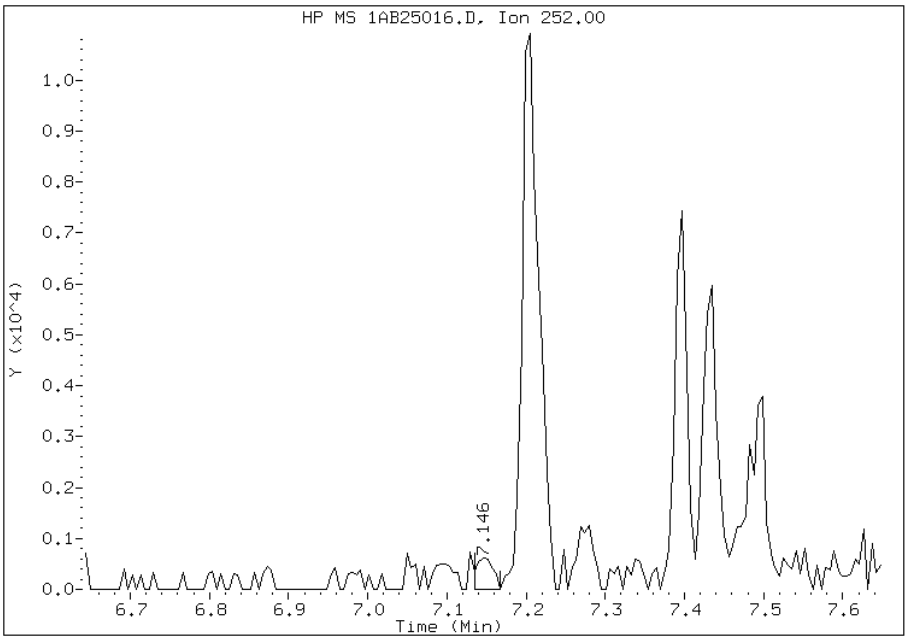
Processing Integration Results

RT: 7.15

Response: 912

Amount: 0

Conc: 3



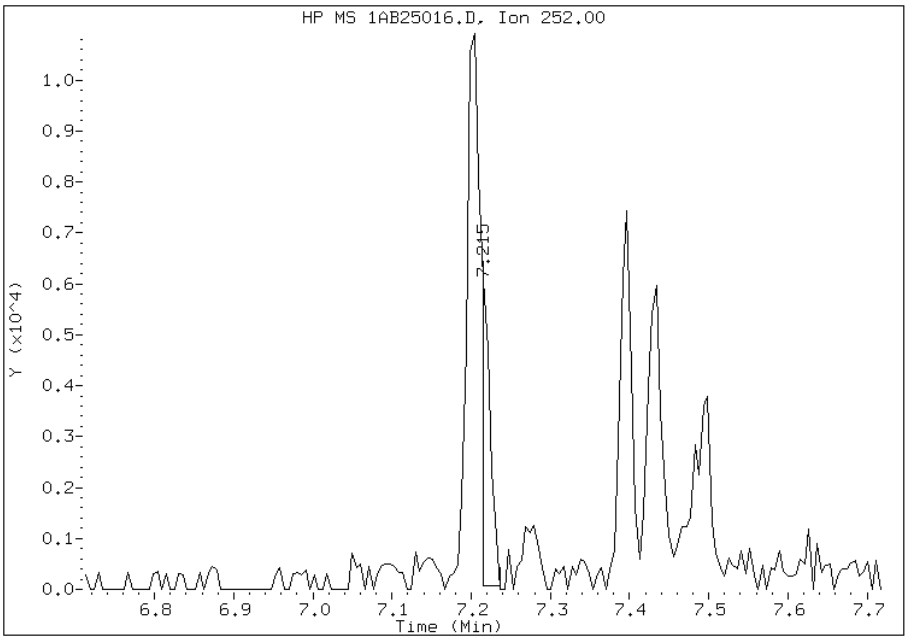
Manual Integration Results

RT: 7.22

Response: 4420

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB25016.D
Inj. Date and Time: 25-FEB-2013 17:30
Instrument ID: BSMA5973.i
Client ID: FM0161O-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

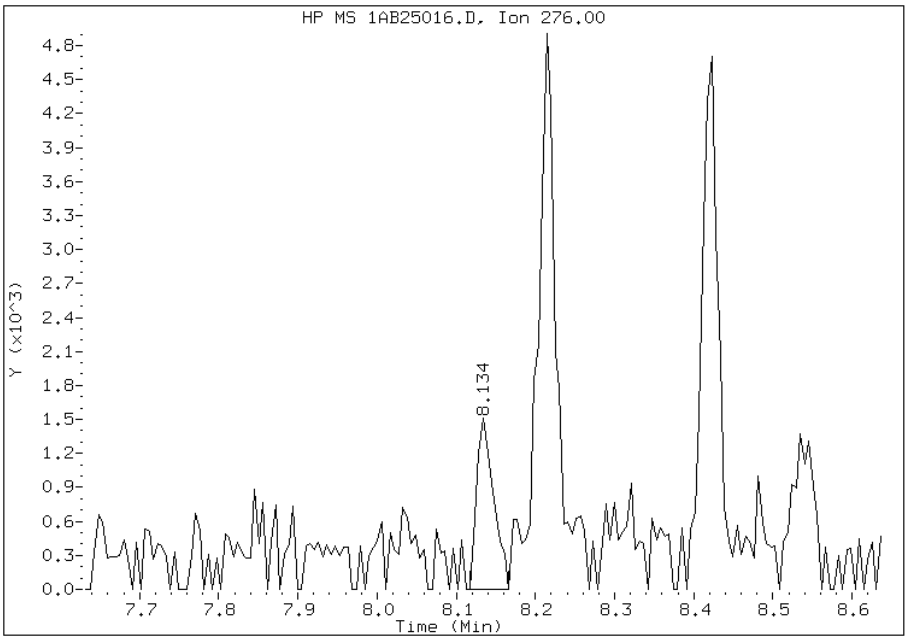
Processing Integration Results

RT: 8.13

Response: 2201

Amount: 0

Conc: 9



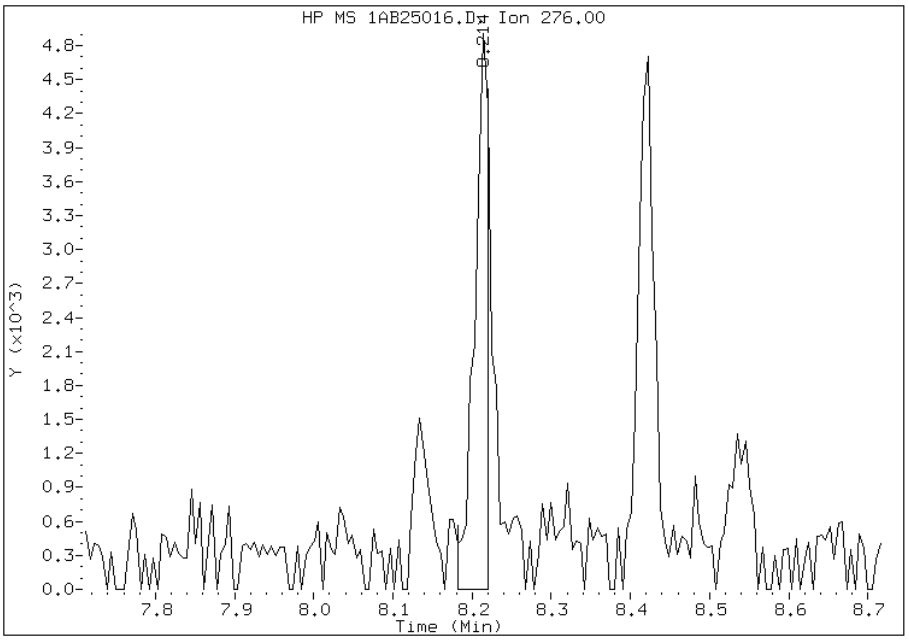
Manual Integration Results

RT: 8.21

Response: 5795

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161P-CS | Lab Sample ID: 680-87545-26

Matrix: Solid | Lab File ID: 1AB25017.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 10:27

Extract. Method: 3546 | Date Extracted: 02/21/2013 12:14

Sample wt/vol: 14.92(g) | Date Analyzed: 02/25/2013 17:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 5.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134820 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	21
208-96-8	Acenaphthylene	8.8	J	43	5.3
120-12-7	Anthracene	17		9.0	4.5
56-55-3	Benzo[a]anthracene	60		8.5	4.2
50-32-8	Benzo[a]pyrene	54		11	5.6
205-99-2	Benzo[b]fluoranthene	90		13	6.5
191-24-2	Benzo[g,h,i]perylene	55		21	4.7
207-08-9	Benzo[k]fluoranthene	23		8.5	3.8
218-01-9	Chrysene	91		9.6	4.8
53-70-3	Dibenz(a,h)anthracene	20	J	21	4.4
206-44-0	Fluoranthene	85		21	4.3
86-73-7	Fluorene	6.3	J	21	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	36		21	7.6
90-12-0	1-Methylnaphthalene	47		43	4.7
91-57-6	2-Methylnaphthalene	60		43	7.6
91-20-3	Naphthalene	57		43	4.7
85-01-8	Phenanthrene	86		8.5	4.2
129-00-0	Pyrene	70		21	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25017.D
Lab Smp Id: 680-87545-A-26-A Client Smp ID: FM0161P-CS
Inj Date : 25-FEB-2013 17:45
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87545-A-26-A
Misc Info : 680-87545-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	5.882	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.394	2.379	(1.000)	738647	40.0000	
* 6 Acenaphthene-d10	164	3.420	3.404	(1.000)	531525	40.0000	
* 10 Phenanthrene-d10	188	4.365	4.339	(1.000)	741375	40.0000	
$ 14 o-Terphenyl	230	4.638	4.622	(1.062)	82605	7.65727	545.2983
* 18 Chrysene-d12	240	6.390	6.353	(1.000)	678941	40.0000	(H)
* 23 Perylene-d12	264	7.490	7.443	(1.000)	886714	40.0000	(H)
2 Naphthalene	128	2.405	2.389	(1.004)	14346	0.80602	57.3990
3 2-Methylnaphthalene	141	2.805	2.790	(1.172)	7805	0.84945	60.4919
4 1-Methylnaphthalene	142	2.864	2.849	(1.196)	6778	0.66245	47.1747
5 Acenaphthylene	152	3.334	3.319	(0.975)	2449	0.12340	8.7875
9 Fluorene	166	3.745	3.730	(1.095)	1273	0.08795	6.2633(Q)
11 Phenanthrene	178	4.376	4.355	(1.002)	22201	1.20474	85.7931
12 Anthracene	178	4.408	4.387	(1.010)	4229	0.23626	16.8245
13 Carbazole	167	4.573	4.542	(1.048)	3007	0.19030	13.5517

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.241	5.215	(1.201)	21886	1.18781	84.5878
16 Pyrene	202	5.407	5.381	(0.846)	19524	0.98040	69.8174(H)
17 Benzo(a)anthracene	228	6.379	6.342	(0.998)	17220	0.84942	60.4898(H)
19 Chrysene	228	6.400	6.369	(1.002)	23059	1.27181	90.5692(H)
20 Benzo(b)fluoranthene	252	7.202	7.165	(0.961)	28417	1.26421	90.0280(MH)
21 Benzo(k)fluoranthene	252	7.218	7.181	(0.964)	7342	0.32466	23.1200(QMH)
22 Benzo(a)pyrene	252	7.431	7.390	(0.992)	15473	0.75166	53.5277(H)
24 Indeno(1,2,3-cd)pyrene	276	8.211	8.164	(1.096)	8953	0.50696	36.1019(MH)
25 Dibenzo(a,h)anthracene	278	8.227	8.180	(1.098)	5174	0.28114	20.0210(H)
26 Benzo(g,h,i)perylene	276	8.425	8.367	(1.125)	14521	0.77306	55.0522(MH)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB25017.D

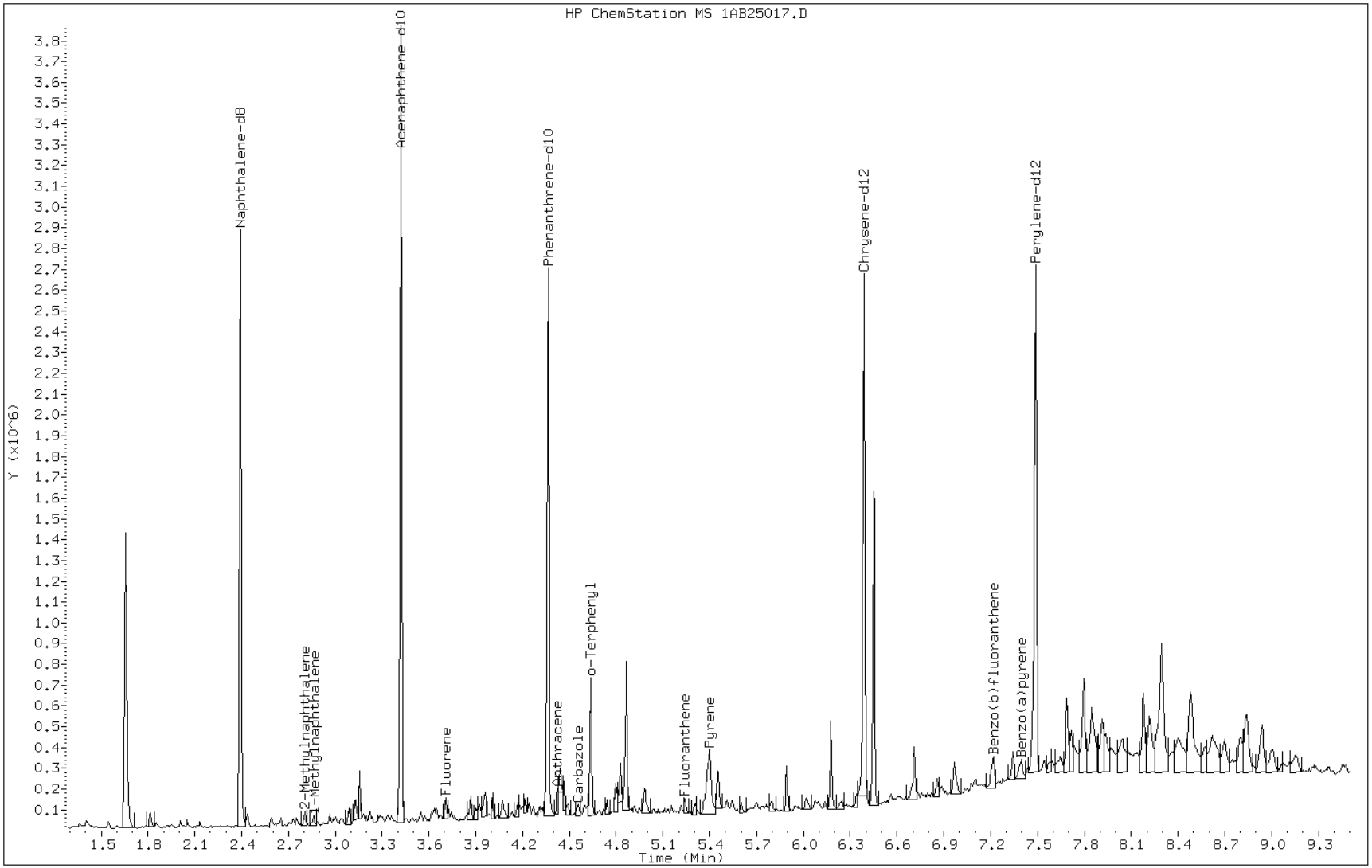
Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A

Operator: SCC



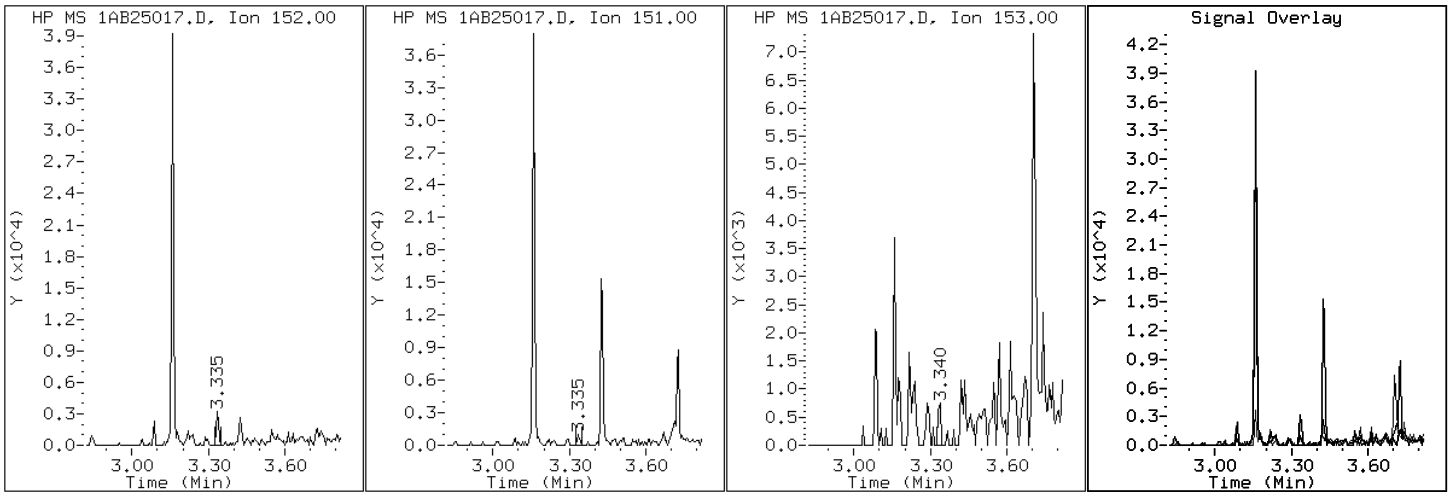
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

5 Acenaphthylene



Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

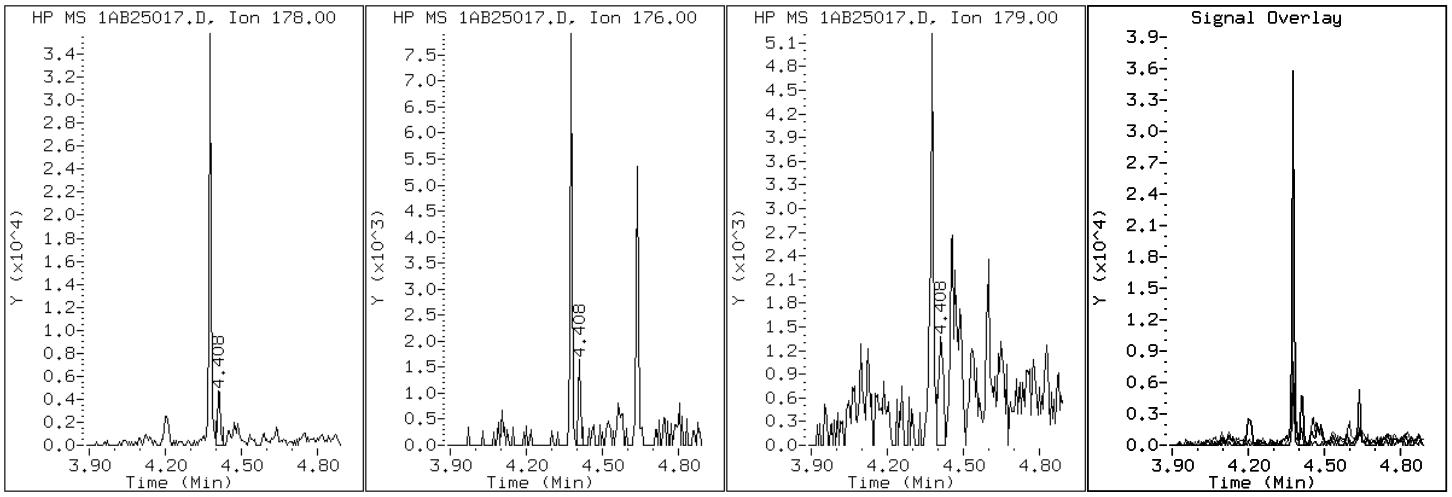
Client ID: FM0161P-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A

Operator: SCC

12 Anthracene



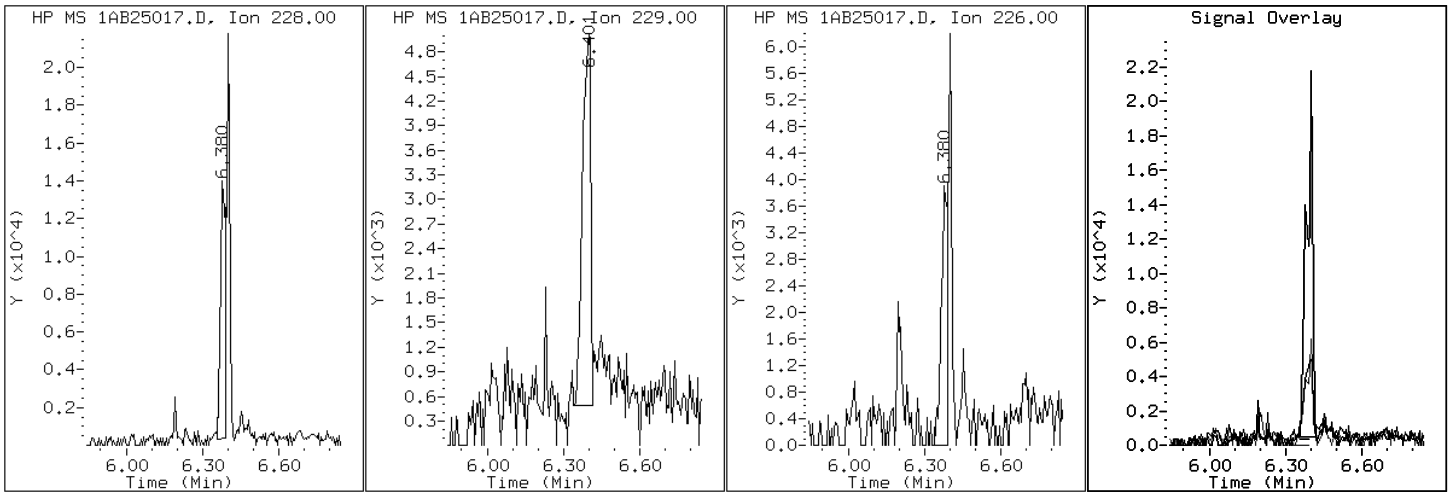
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

17 Benzo(a)anthracene



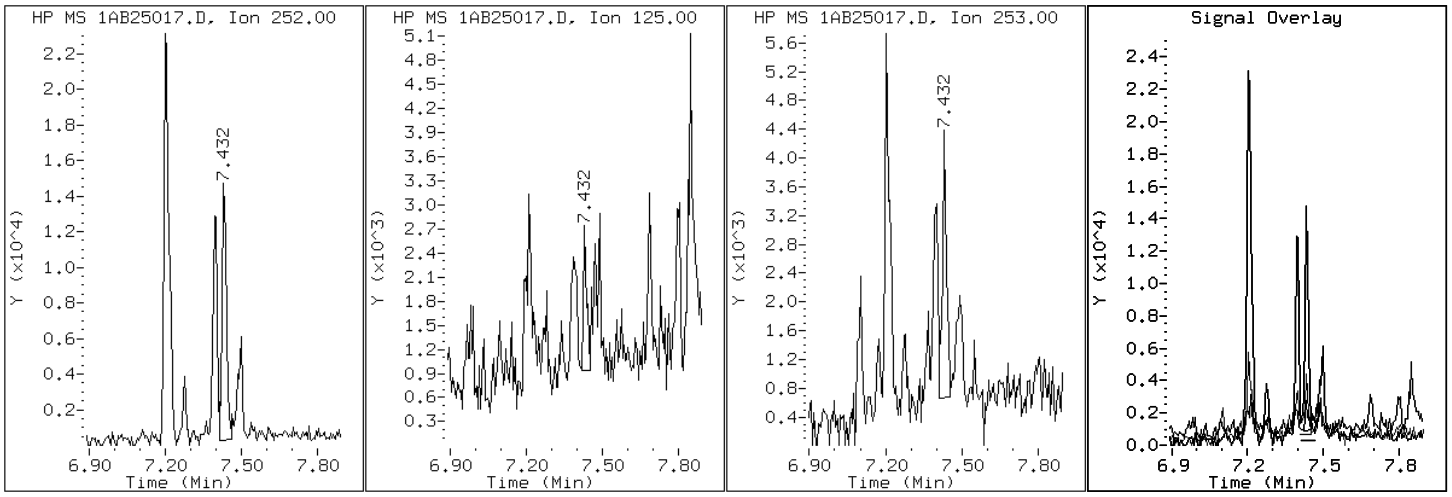
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

22 Benzo(a)pyrene



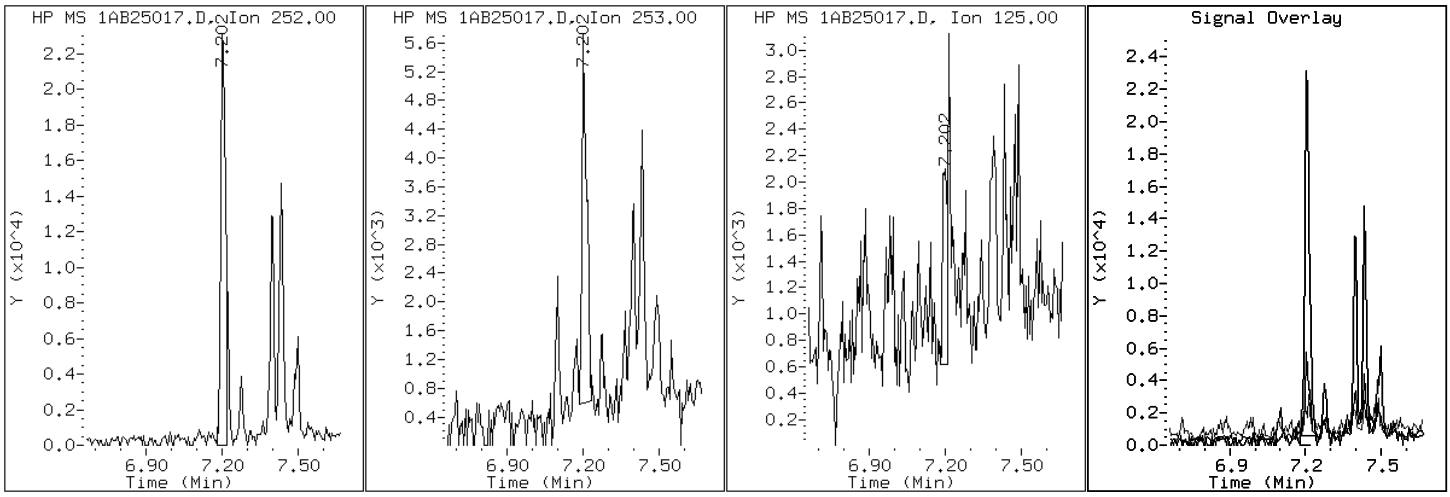
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

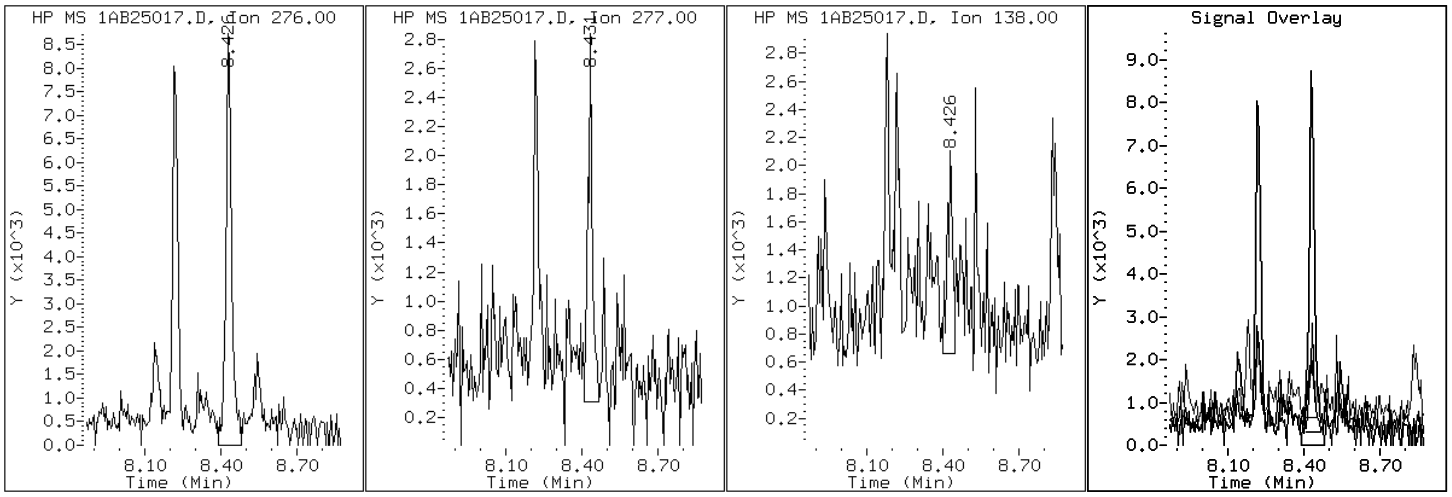
Client ID: FM0161P-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A

Operator: SCC

26 Benzo(g,h,i)perylene



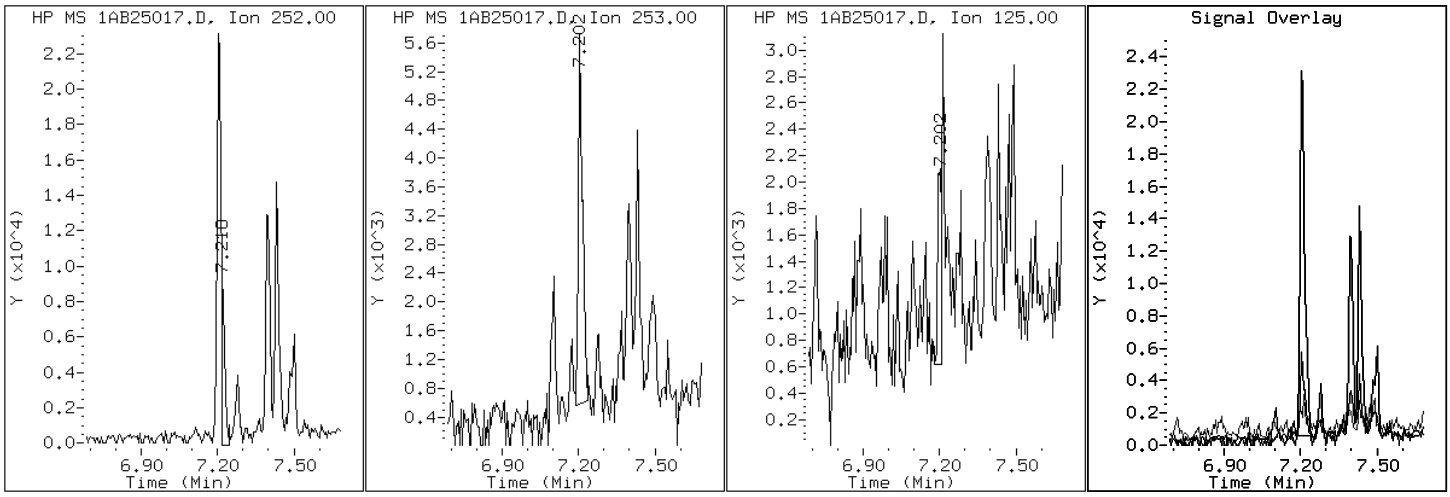
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

21 Benzo(k)fluoranthene



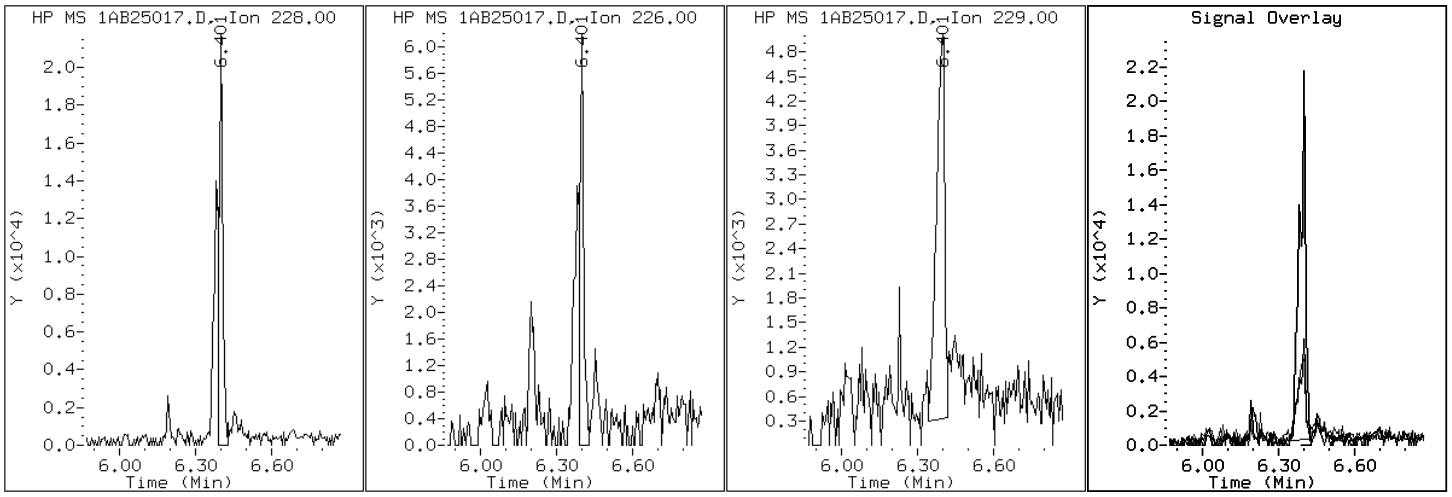
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

19 Chrysene



Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

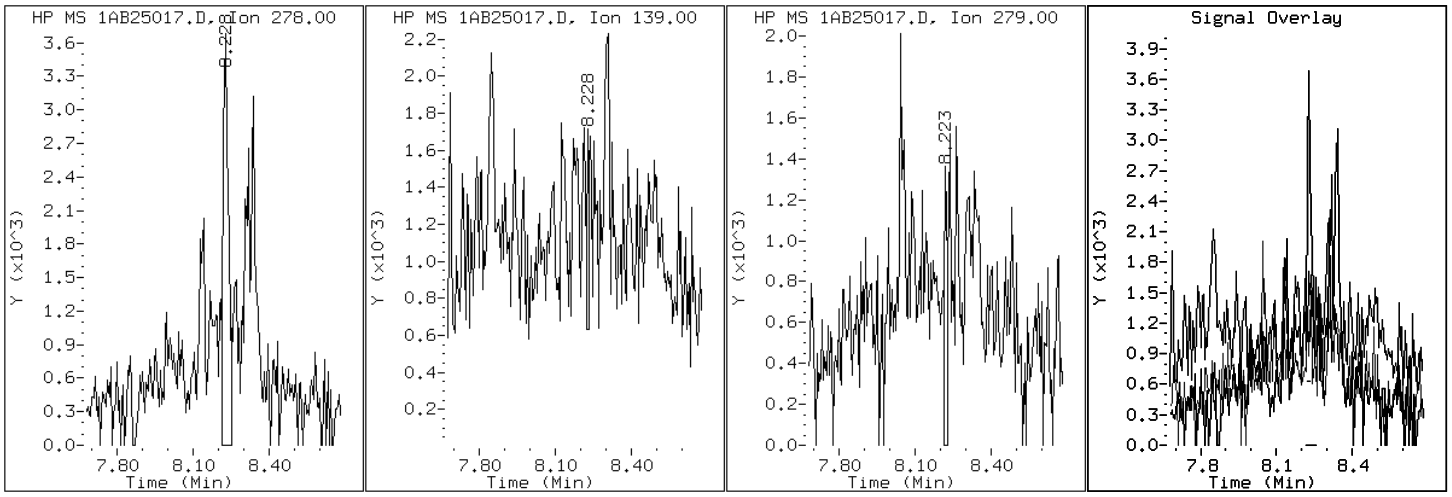
Client ID: FM0161P-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A

Operator: SCC

25 Dibenzo(a,h)anthracene



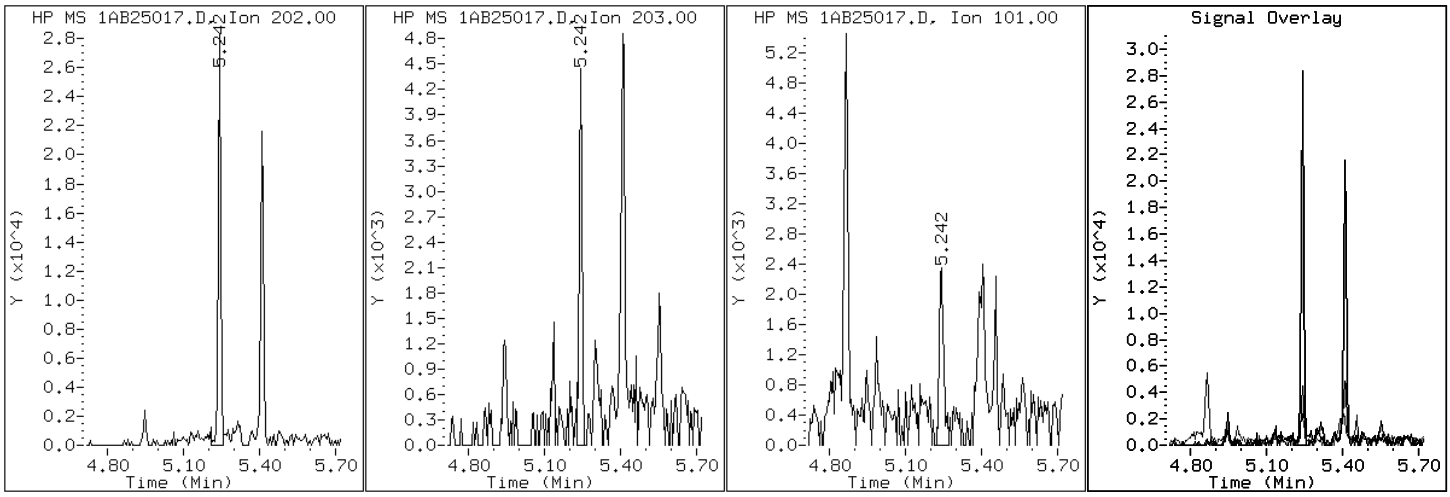
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

15 Fluoranthene



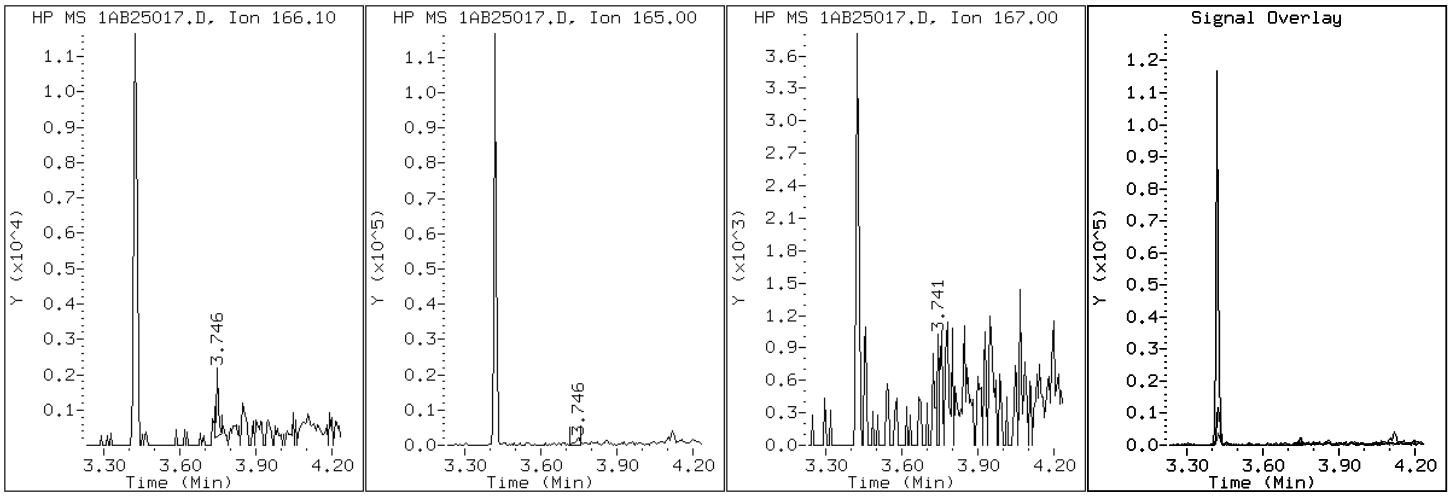
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

9 Fluorene



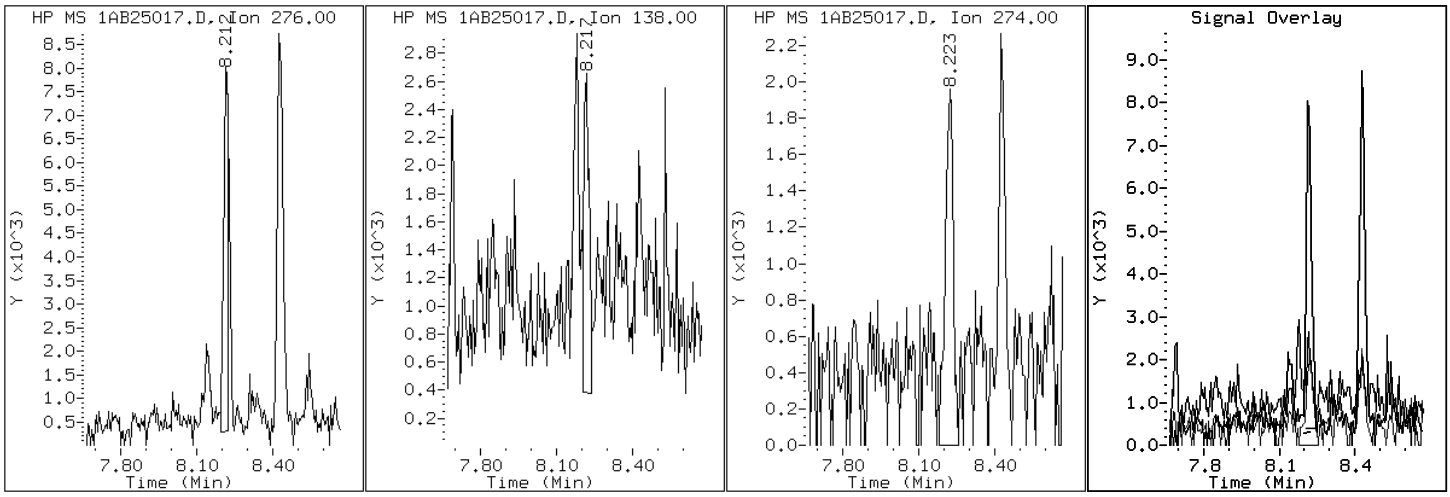
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

24 Indeno(1,2,3-cd)pyrene



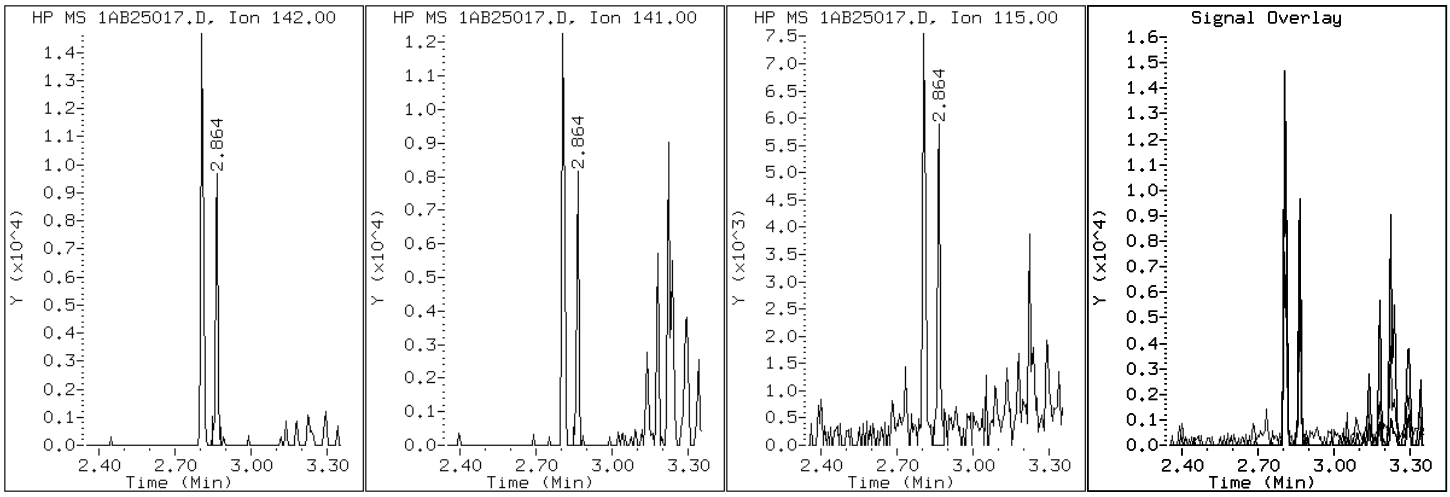
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

4 1-Methylnaphthalene



Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

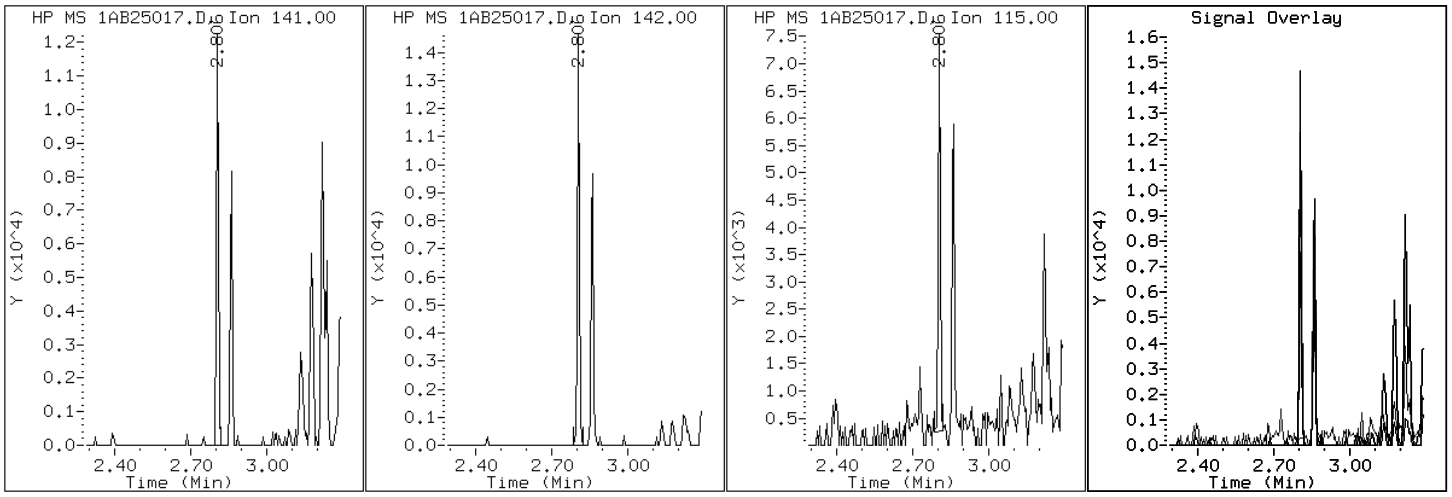
Client ID: FM0161P-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A

Operator: SCC

3 2-Methylnaphthalene



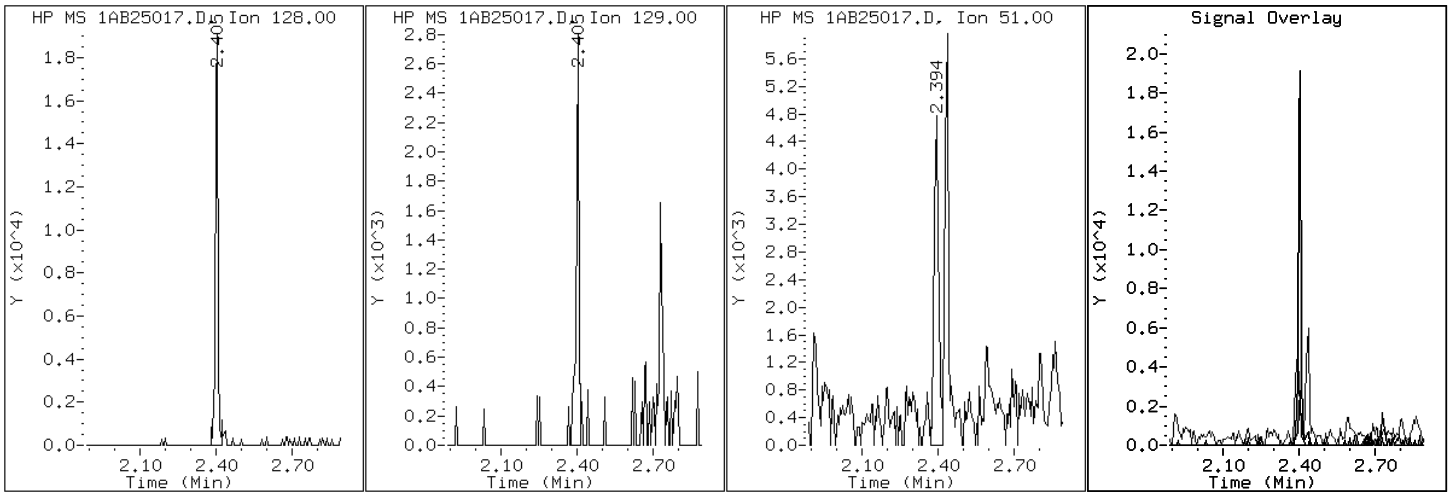
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

2 Naphthalene



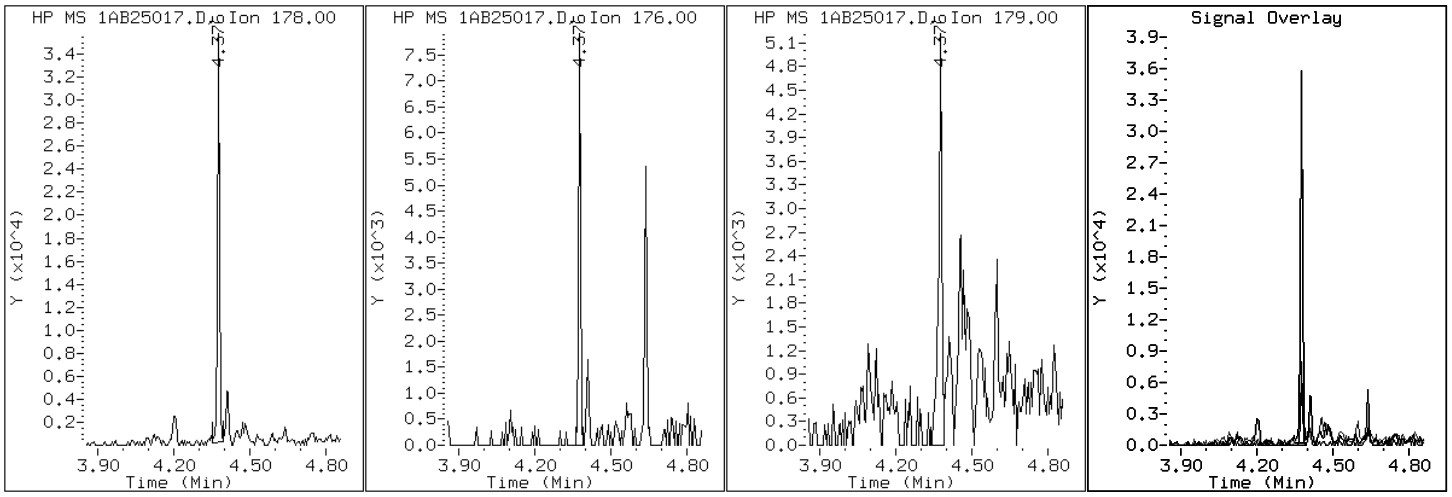
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

11 Phenanthrene



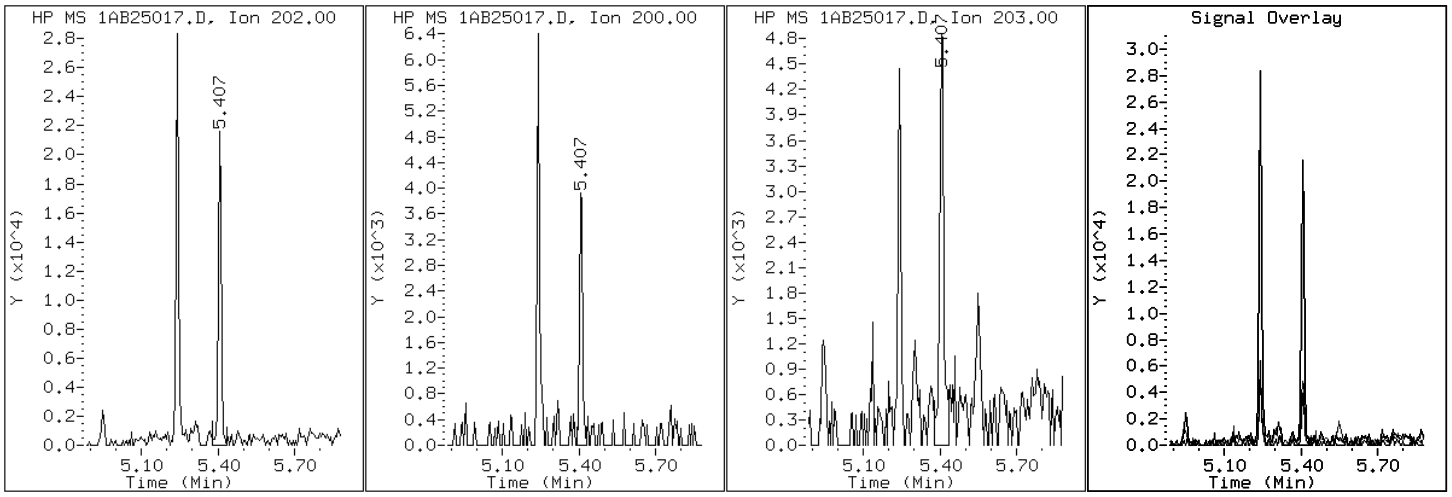
Data File: 1AB25017.D

Date: 25-FEB-2013 17:45

Client ID: FM0161P-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-26-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB25017.D
Inj. Date and Time: 25-FEB-2013 17:45
Instrument ID: BSMA5973.i
Client ID: FM0161P-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

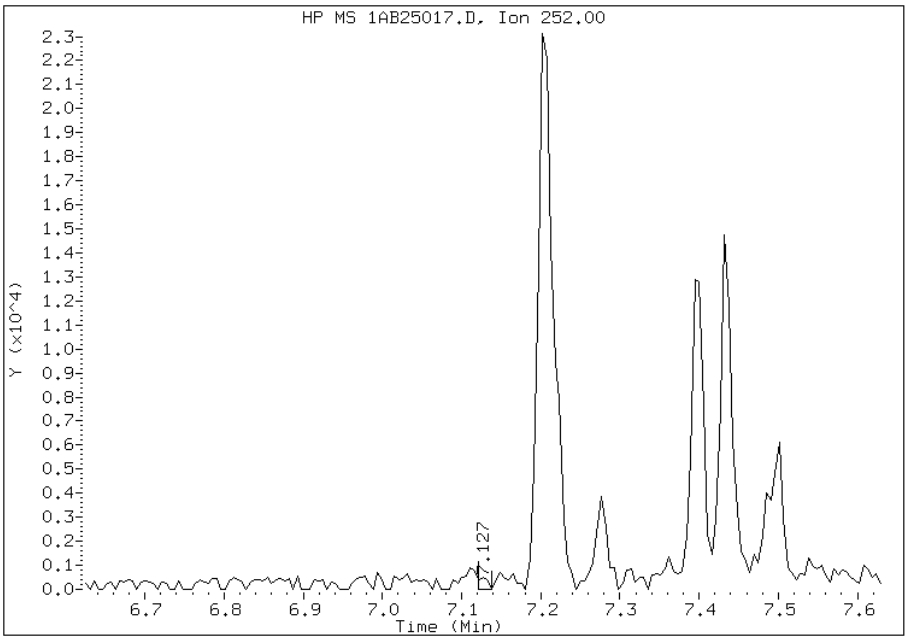
Processing Integration Results

RT: 7.13

Response: 408

Amount: 0

Conc: 1



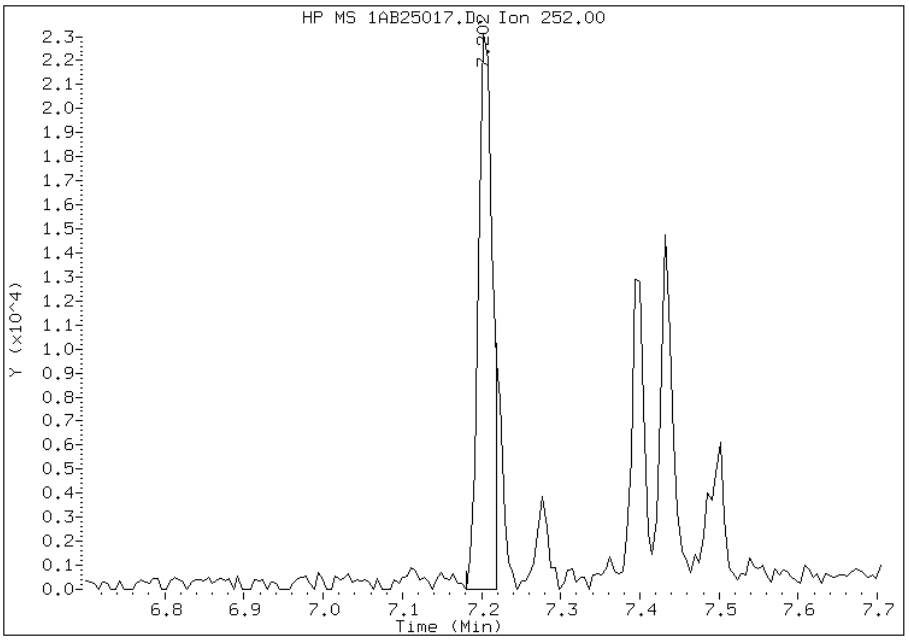
Manual Integration Results

RT: 7.20

Response: 28417

Amount: 1

Conc: 90



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB25017.D
Inj. Date and Time: 25-FEB-2013 17:45
Instrument ID: BSMA5973.i
Client ID: FM0161P-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/26/2013

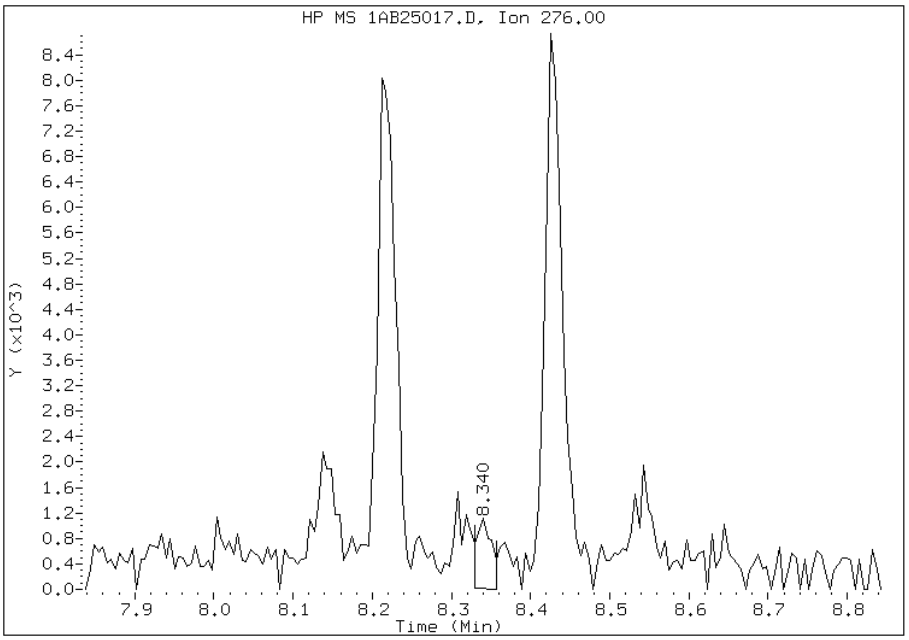
Processing Integration Results

RT: 8.34

Response: 1518

Amount: 0

Conc: 6



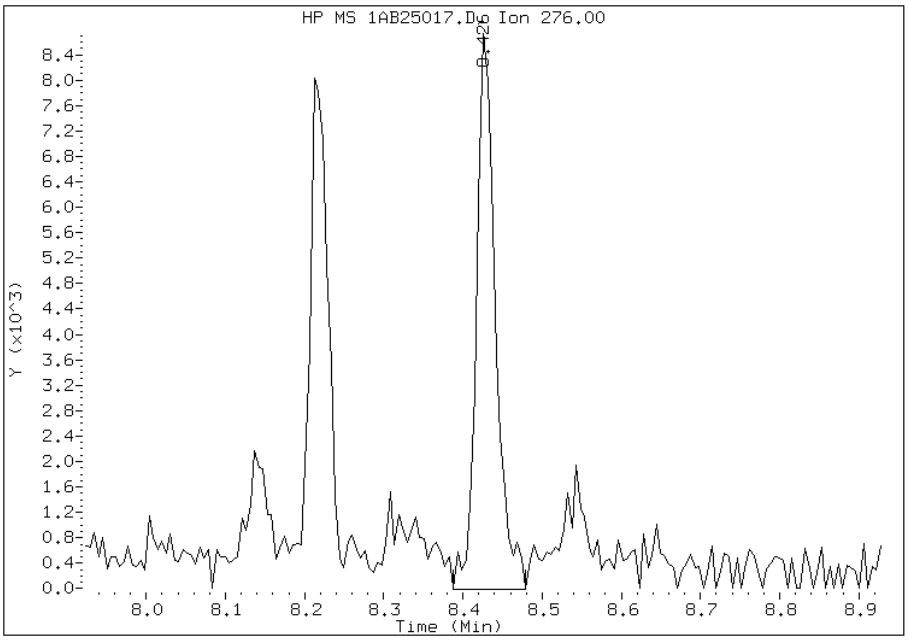
Manual Integration Results

RT: 8.43

Response: 14521

Amount: 1

Conc: 55



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB25017.D
Inj. Date and Time: 25-FEB-2013 17:45
Instrument ID: BSMA5973.i
Client ID: FM0161P-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

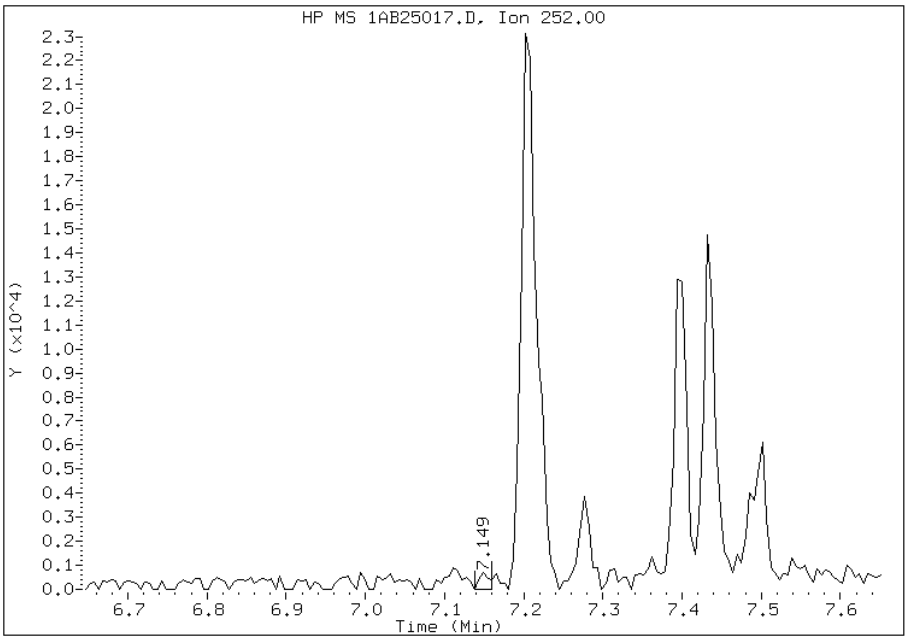
Processing Integration Results

RT: 7.15

Response: 629

Amount: 0

Conc: 2



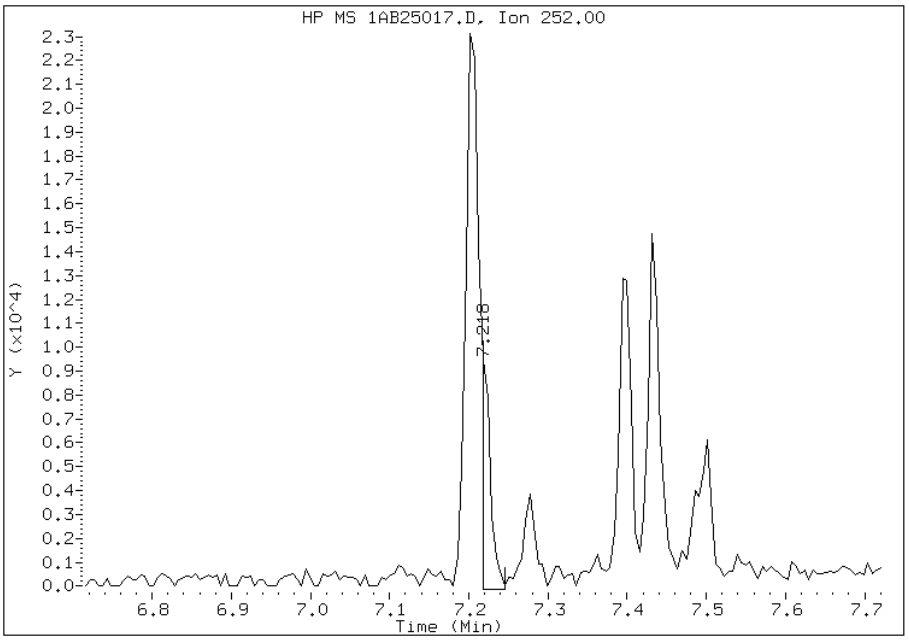
Manual Integration Results

RT: 7.22

Response: 7342

Amount: 0

Conc: 23



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB25017.D
Inj. Date and Time: 25-FEB-2013 17:45
Instrument ID: BSMA5973.i
Client ID: FM0161P-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

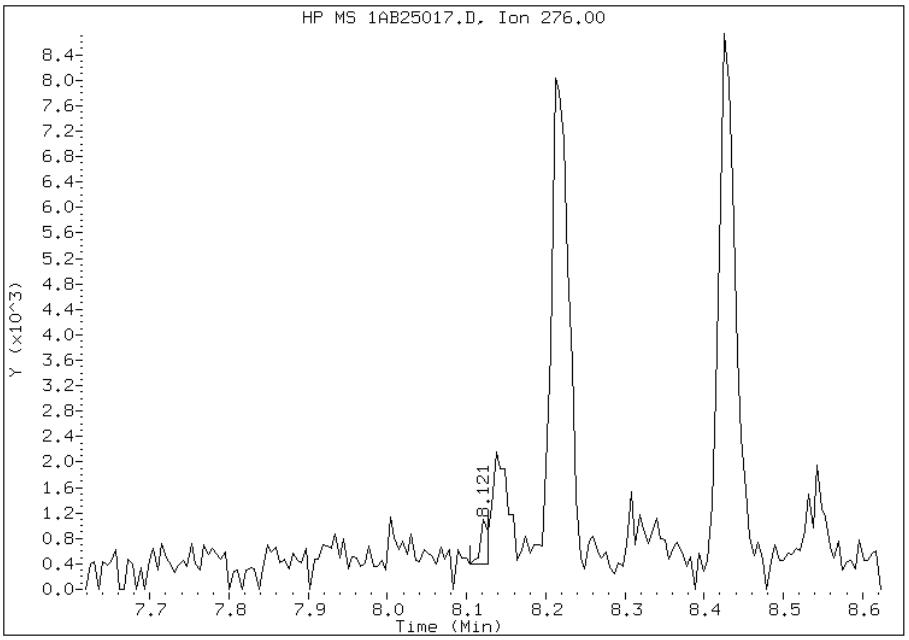
Processing Integration Results

RT: 8.12

Response: 440

Amount: 0

Conc: 2



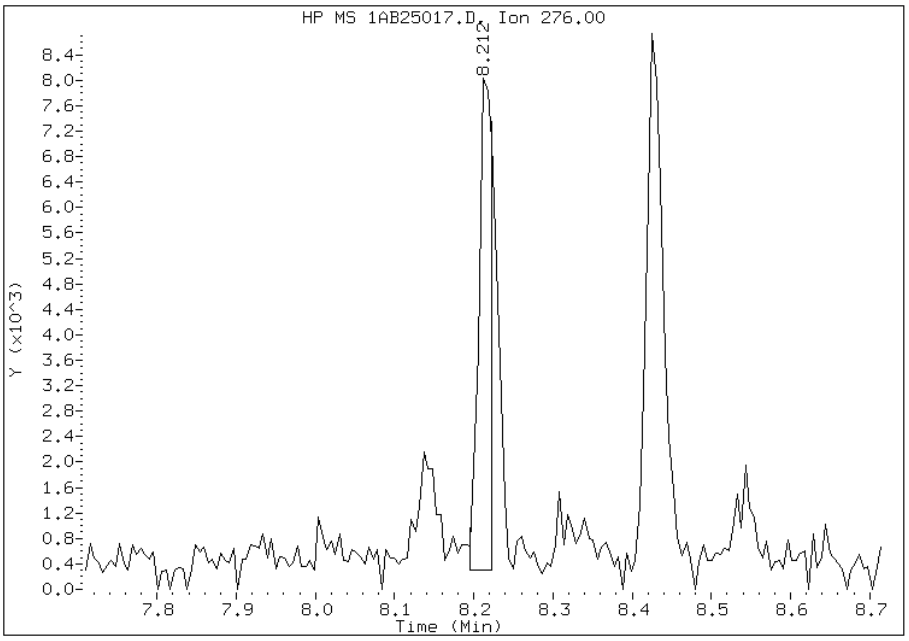
Manual Integration Results

RT: 8.21

Response: 8953

Amount: 1

Conc: 36



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:17
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161Q-CS | Lab Sample ID: 680-87545-27

Matrix: Solid | Lab File ID: 1AB25018.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 10:31

Extract. Method: 3546 | Date Extracted: 02/21/2013 12:14

Sample wt/vol: 15.10(g) | Date Analyzed: 02/25/2013 18:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 0.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134820 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	13	J	40	5.0
120-12-7	Anthracene	23		8.4	4.2
56-55-3	Benzo[a]anthracene	70		8.0	3.9
50-32-8	Benzo[a]pyrene	51		10	5.2
205-99-2	Benzo[b]fluoranthene	80		12	6.1
191-24-2	Benzo[g,h,i]perylene	48		20	4.4
207-08-9	Benzo[k]fluoranthene	30		8.0	3.6
218-01-9	Chrysene	79		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	18	J	20	4.1
206-44-0	Fluoranthene	88		20	4.0
86-73-7	Fluorene	8.4	J	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	41		20	7.1
90-12-0	1-Methylnaphthalene	41		40	4.4
91-57-6	2-Methylnaphthalene	54		40	7.1
91-20-3	Naphthalene	51		40	4.4
85-01-8	Phenanthrene	80		8.0	3.9
129-00-0	Pyrene	79		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25018.D
Lab Smp Id: 680-87545-A-27-A Client Smp ID: FM0161Q-CS
Inj Date : 25-FEB-2013 18:00
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87545-A-27-A
Misc Info : 680-87545-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	0.23419	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.391	2.379	(1.000)	757645	40.0000	
* 6 Acenaphthene-d10	164	3.422	3.404	(1.000)	532970	40.0000	
* 10 Phenanthrene-d10	188	4.362	4.339	(1.000)	771545	40.0000	
$ 14 o-Terphenyl	230	4.640	4.622	(1.064)	88086	7.84605	520.8259
* 18 Chrysene-d12	240	6.387	6.353	(1.000)	669318	40.0000	(H)
* 23 Perylene-d12	264	7.493	7.443	(1.000)	851515	40.0000	(H)
2 Naphthalene	128	2.402	2.389	(1.004)	14096	0.77211	51.2533
3 2-Methylnaphthalene	141	2.808	2.790	(1.174)	7674	0.81425	54.0503
4 1-Methylnaphthalene	142	2.861	2.849	(1.197)	6530	0.62220	41.3022
5 Acenaphthylene	152	3.337	3.319	(0.975)	4027	0.20236	13.4326
9 Fluorene	166	3.748	3.730	(1.095)	1843	0.12699	8.4296(Q)
11 Phenanthrene	178	4.378	4.355	(1.004)	23034	1.20106	79.7273
12 Anthracene	178	4.410	4.387	(1.011)	6344	0.34055	22.6061
13 Carbazole	167	4.576	4.542	(1.049)	2578	0.15677	10.4064

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.244	5.215	(1.202)	25441	1.32676	88.0711
16 Pyrene	202	5.409	5.381	(0.847)	23424	1.19315	79.2021(H)
17 Benzo(a)anthracene	228	6.382	6.342	(0.999)	21169	1.05923	70.3121(H)
19 Chrysene	228	6.403	6.369	(1.002)	21225	1.18748	78.8258(H)
20 Benzo(b)fluoranthene	252	7.204	7.165	(0.962)	25996	1.20431	79.9426(MH)
21 Benzo(k)fluoranthene	252	7.215	7.181	(0.963)	9764	0.44961	29.8452(QMH)
22 Benzo(a)pyrene	252	7.434	7.390	(0.992)	15191	0.76846	51.0109(H)
24 Indeno(1,2,3-cd)pyrene	276	8.214	8.164	(1.096)	10441	0.61565	40.8673(MH)
25 Dibenzo(a,h)anthracene	278	8.230	8.180	(1.098)	4876	0.27590	18.3145(H)
26 Benzo(g,h,i)perylene	276	8.428	8.367	(1.125)	12993	0.72031	47.8146(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB25018.D

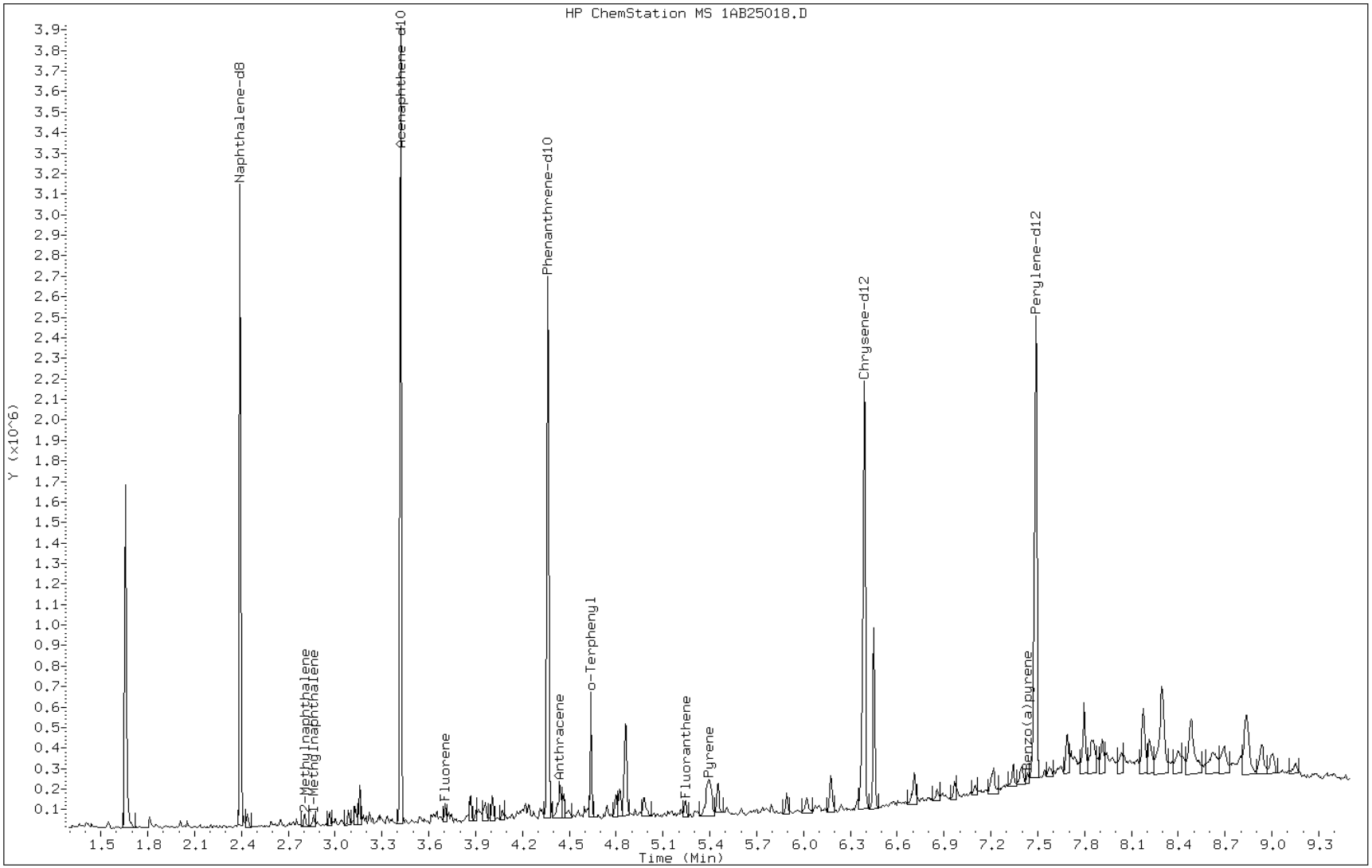
Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A

Operator: SCC



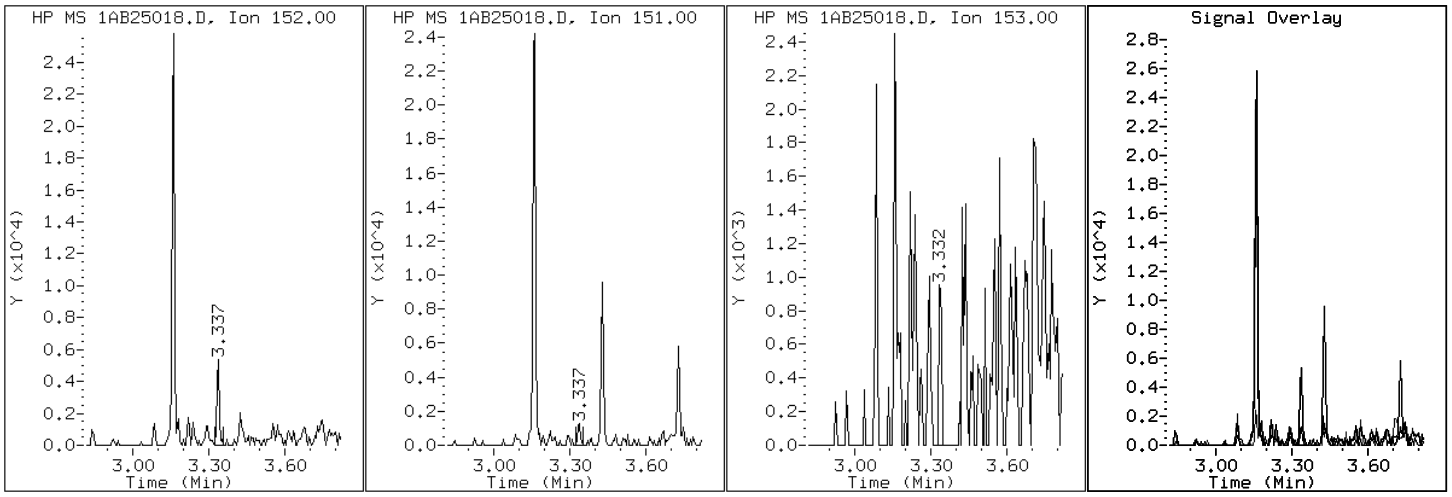
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

5 Acenaphthylene



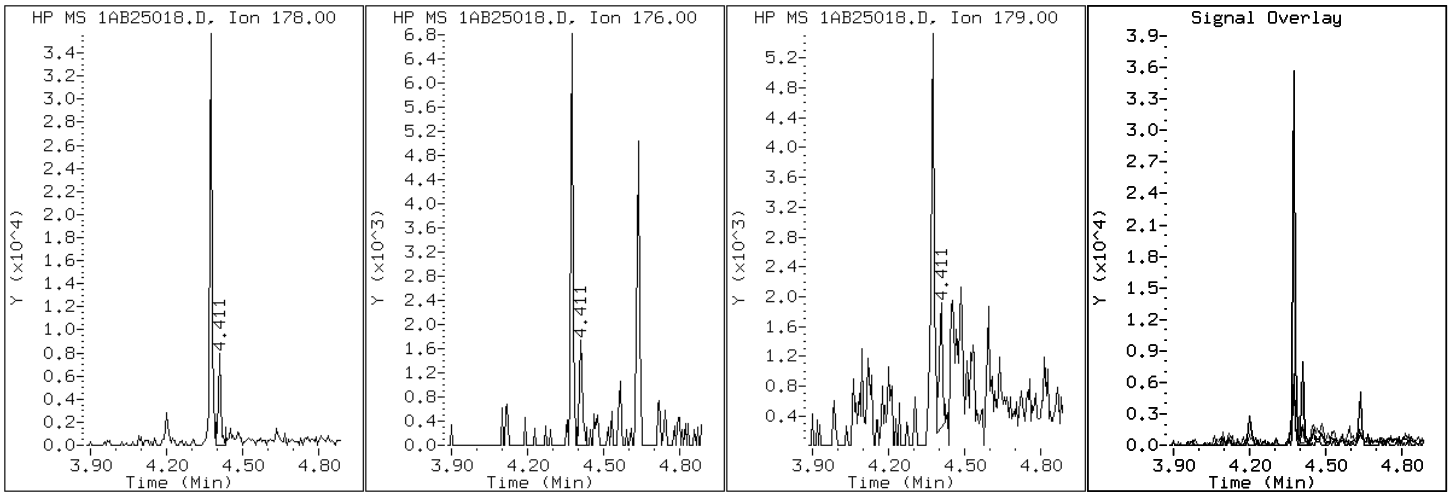
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

12 Anthracene



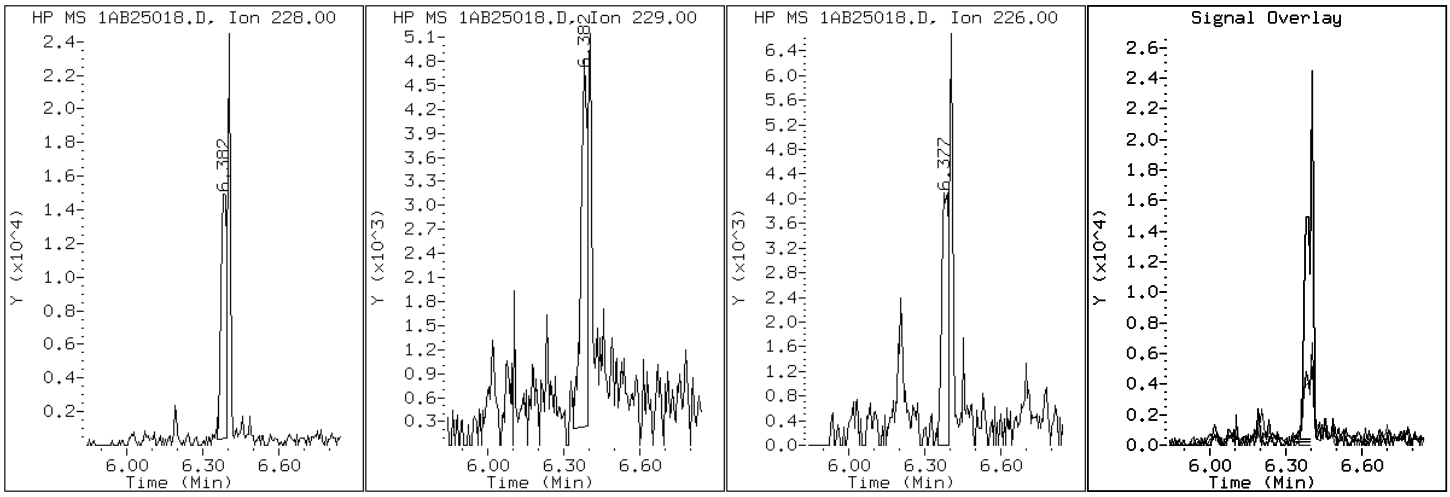
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

17 Benzo(a)anthracene



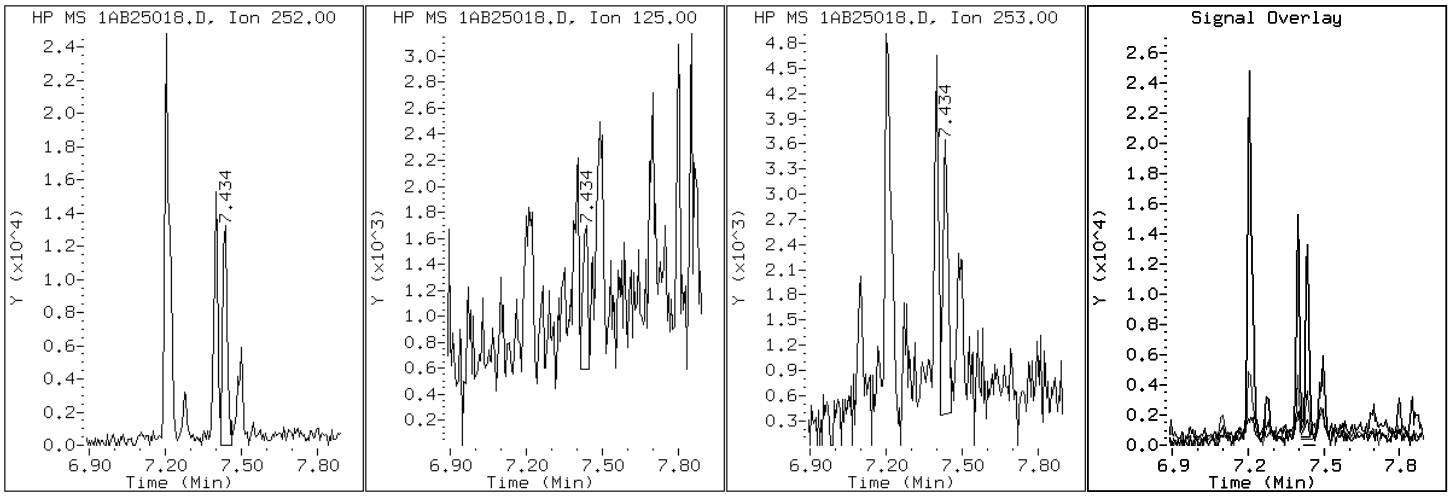
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

22 Benzo(a)pyrene



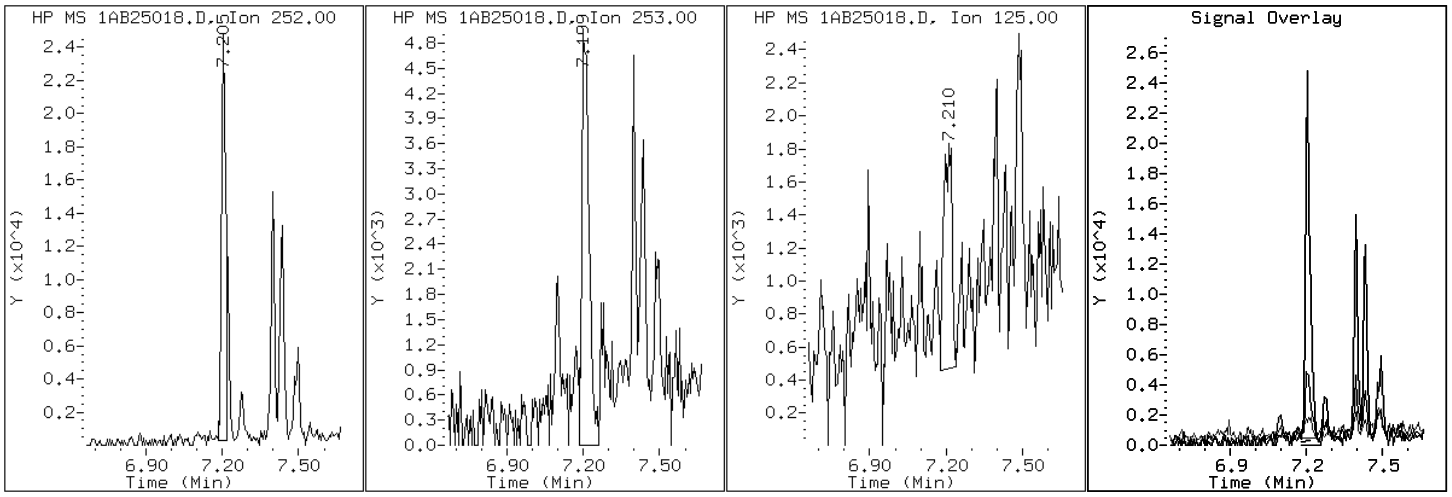
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

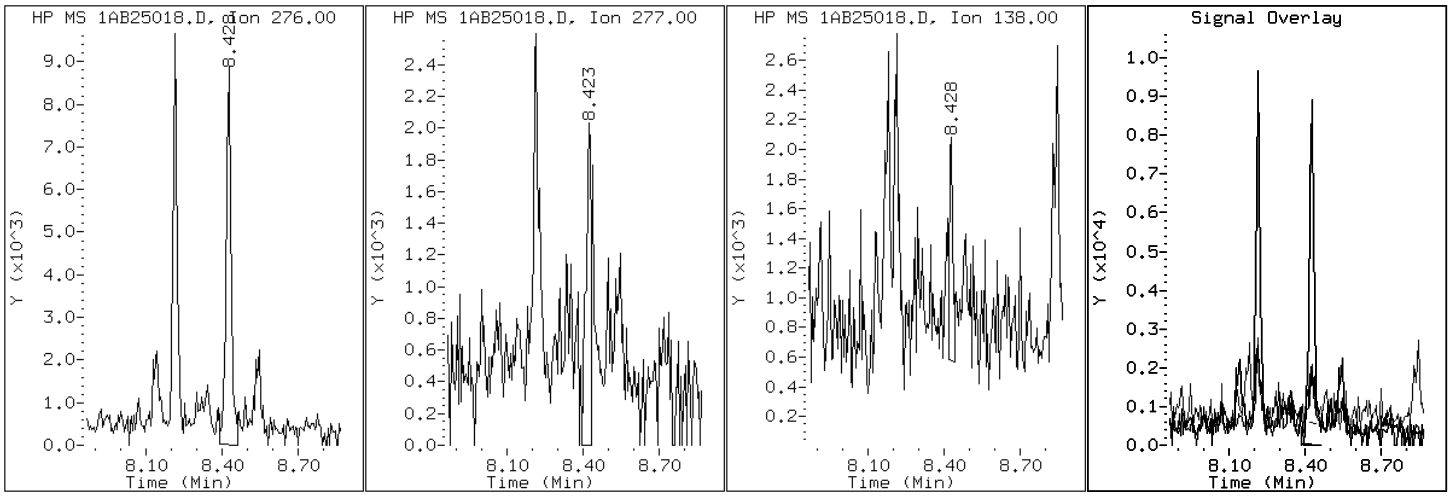
Client ID: FM0161Q-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A

Operator: SCC

26 Benzo(g,h,i)perylene



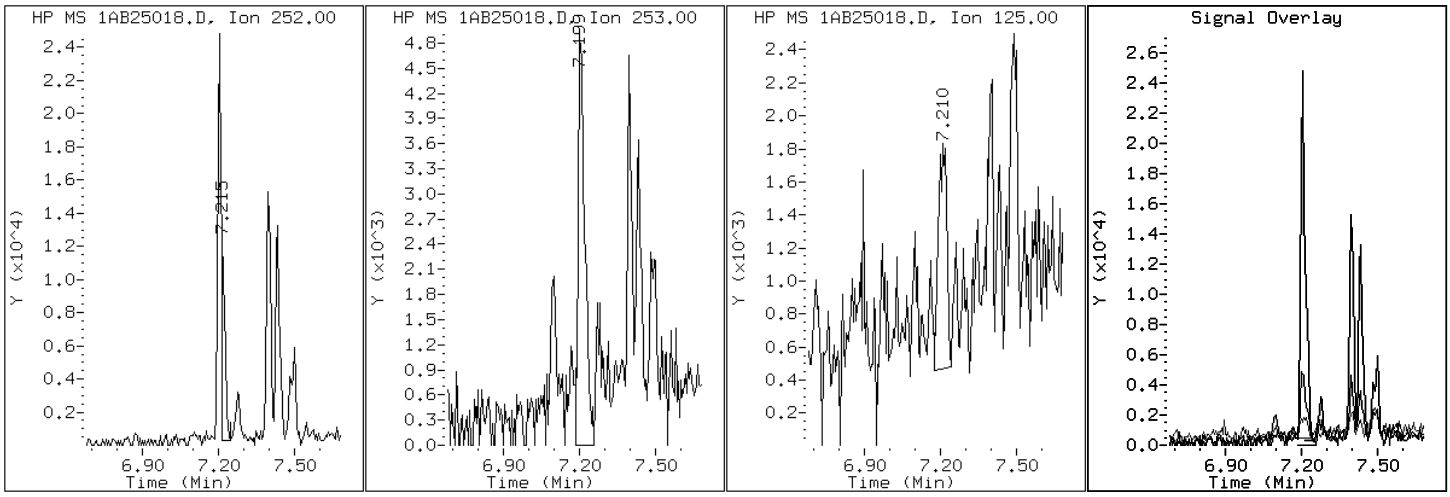
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

21 Benzo(k)fluoranthene



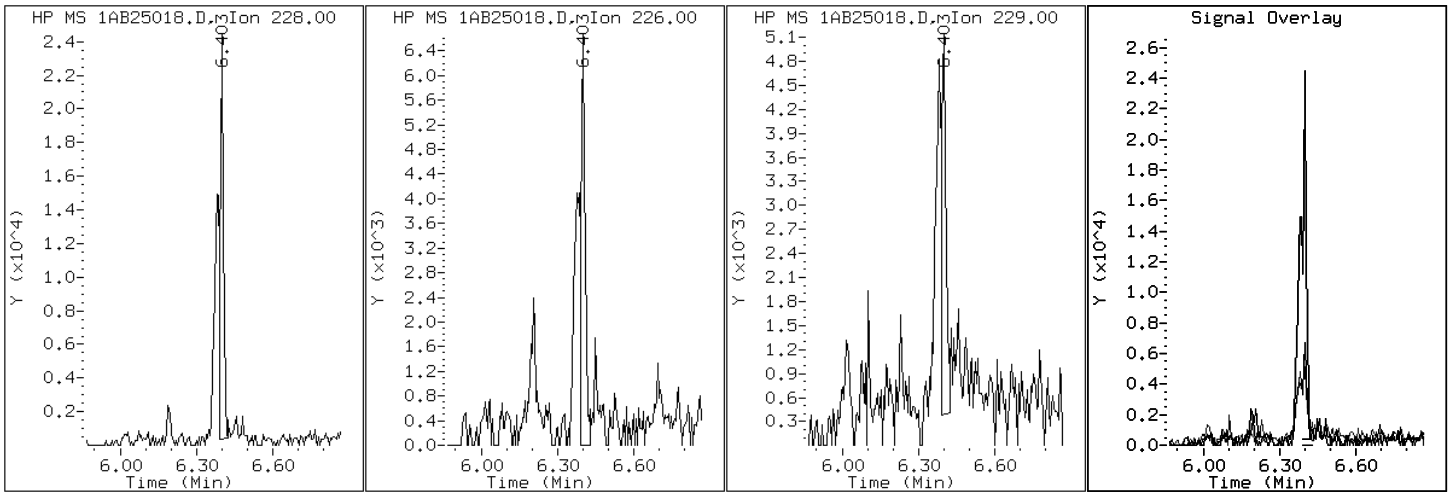
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

19 Chrysene



Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

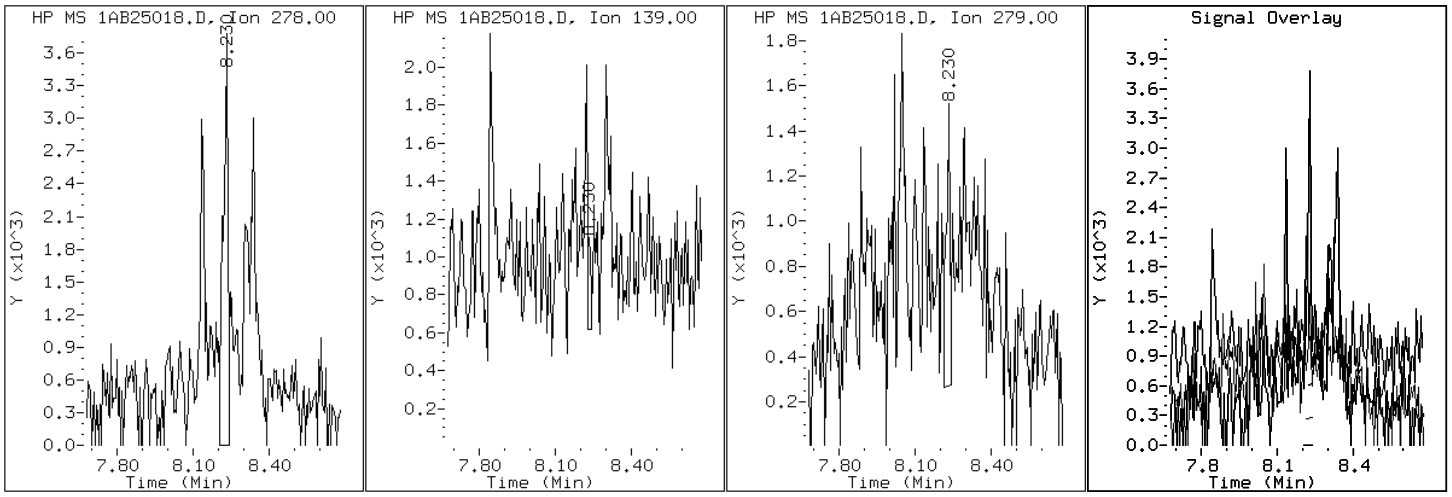
Client ID: FM0161Q-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A

Operator: SCC

25 Dibenzo(a,h)anthracene



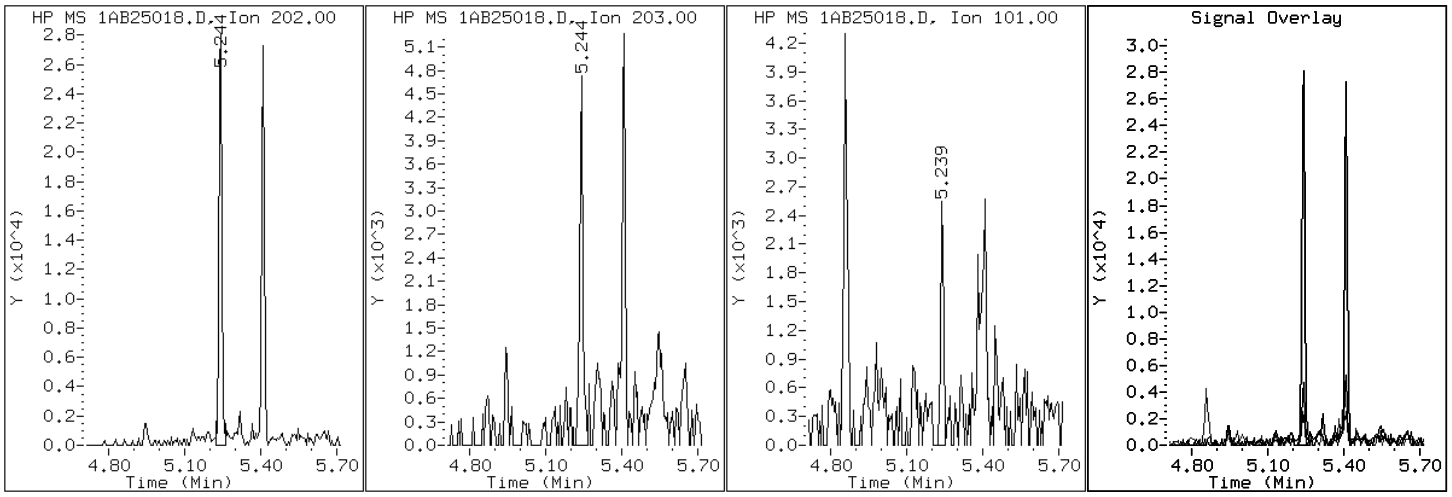
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

15 Fluoranthene



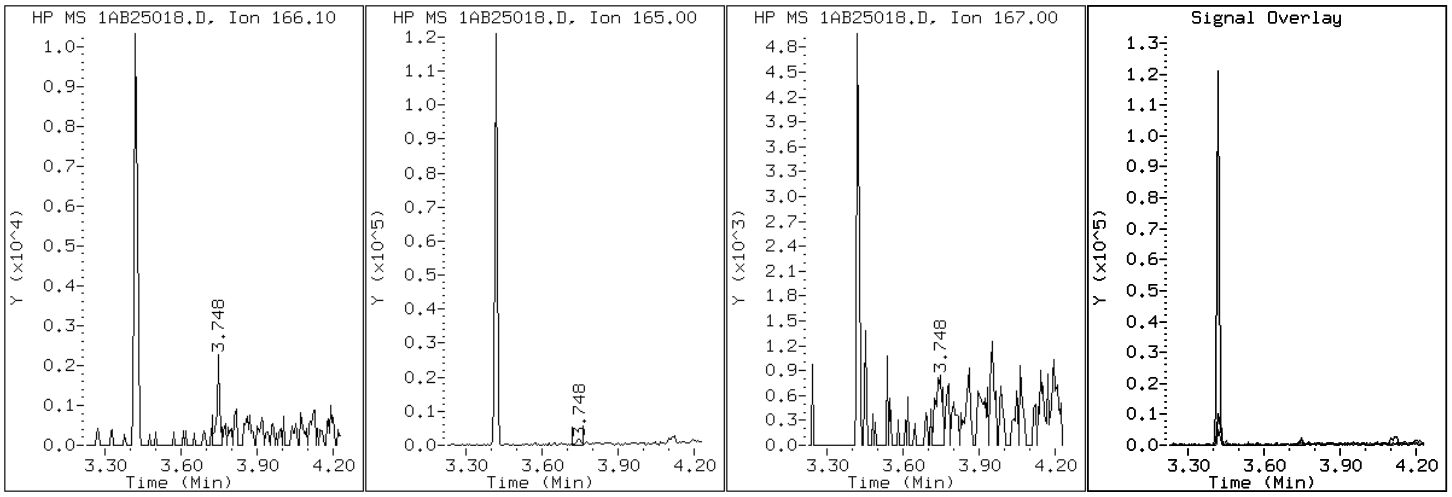
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

9 Fluorene



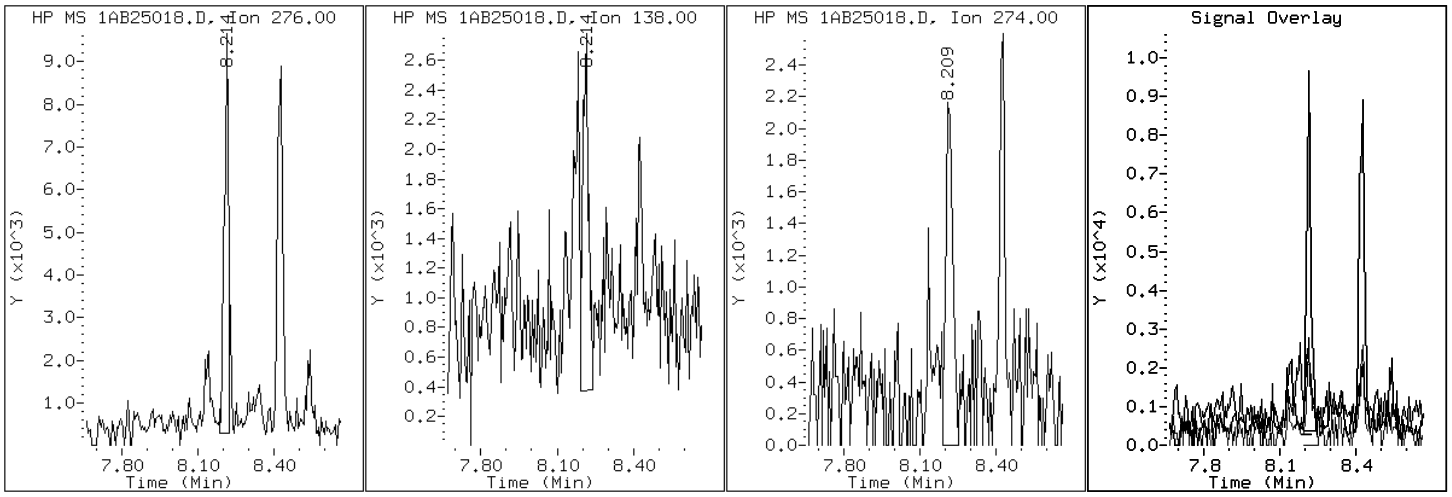
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

24 Indeno(1,2,3-cd)pyrene



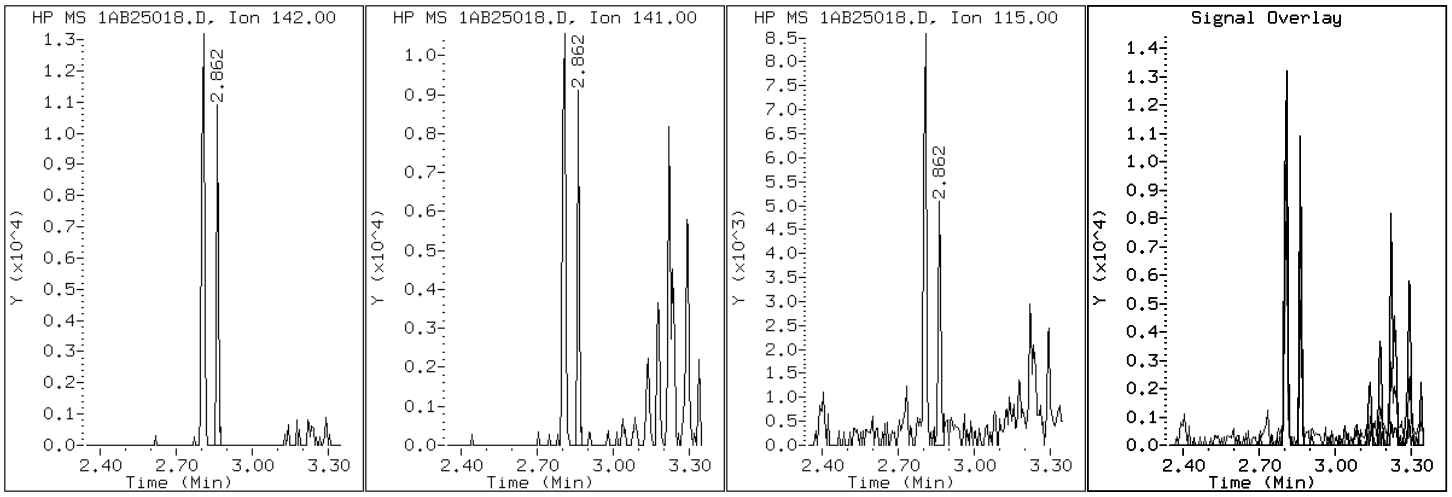
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

4 1-Methylnaphthalene



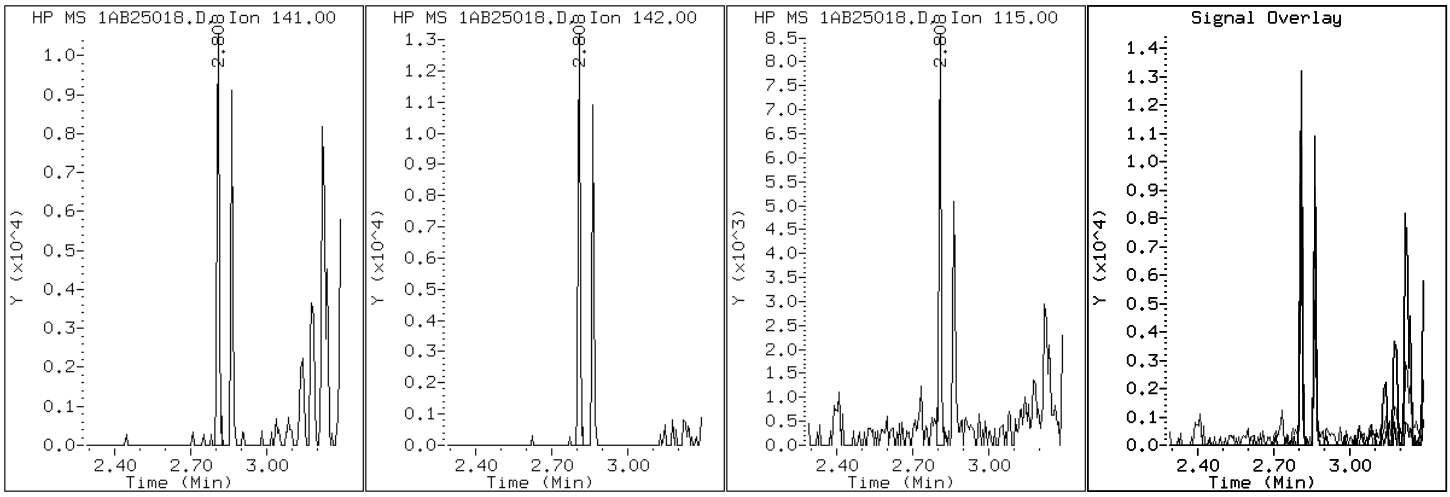
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

3 2-Methylnaphthalene



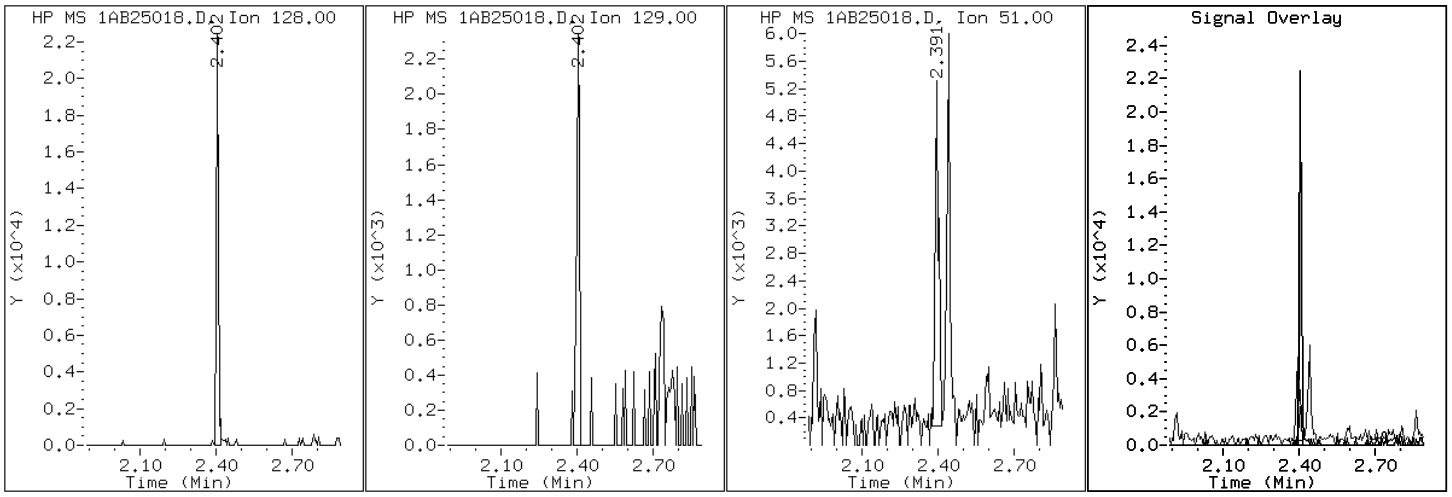
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

2 Naphthalene



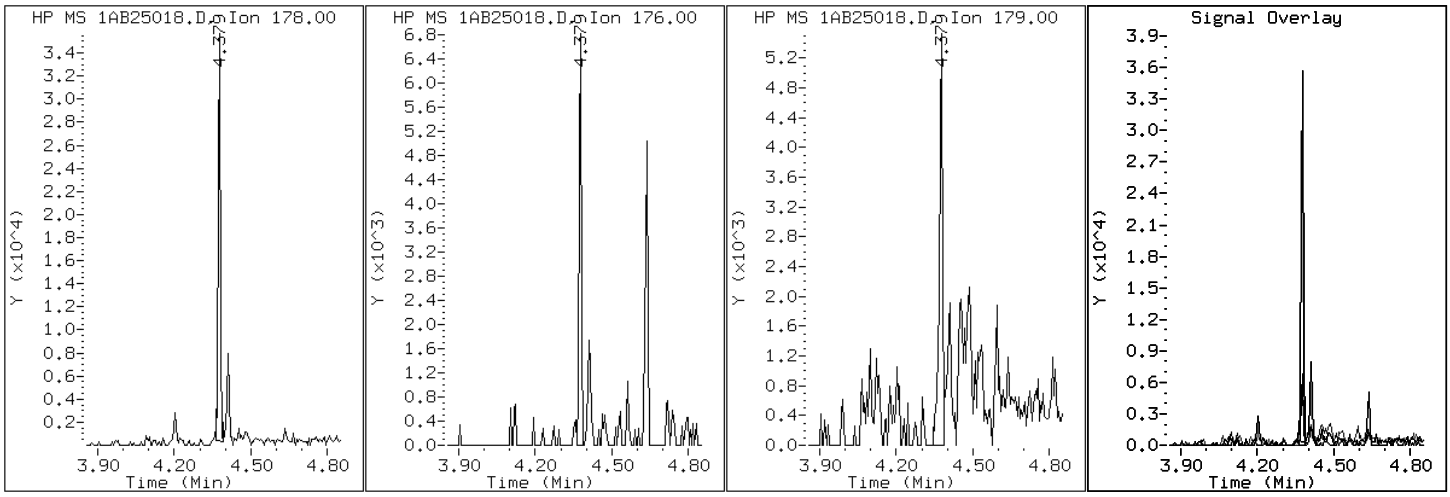
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

11 Phenanthrene



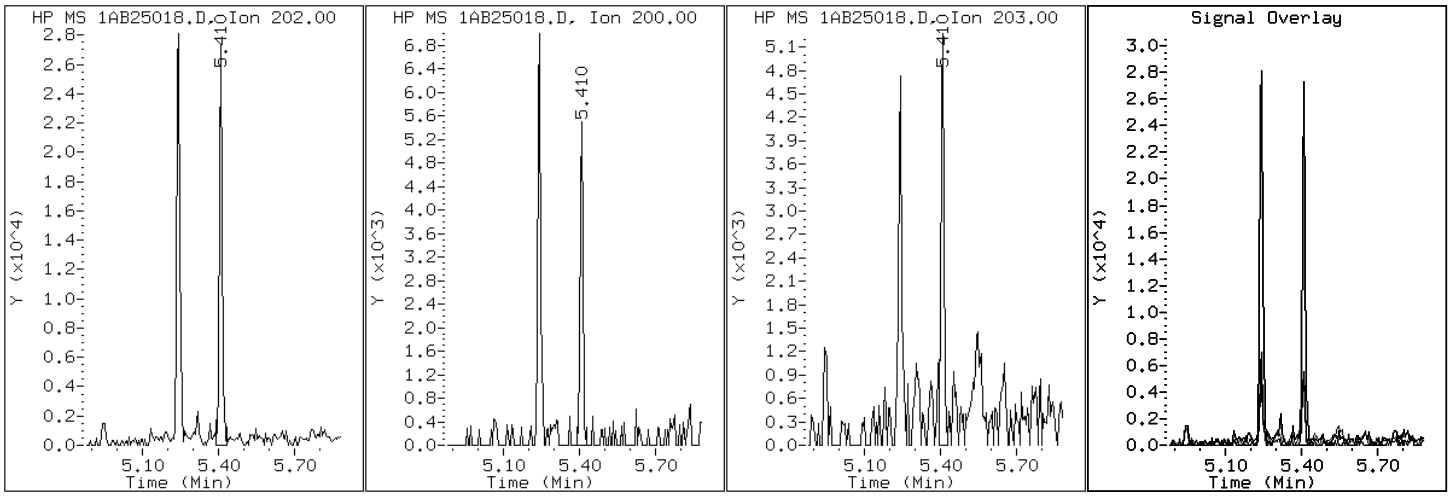
Data File: 1AB25018.D

Date: 25-FEB-2013 18:00

Client ID: FM0161Q-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-27-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB25018.D
Inj. Date and Time: 25-FEB-2013 18:00
Instrument ID: BSMA5973.i
Client ID: FM0161Q-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

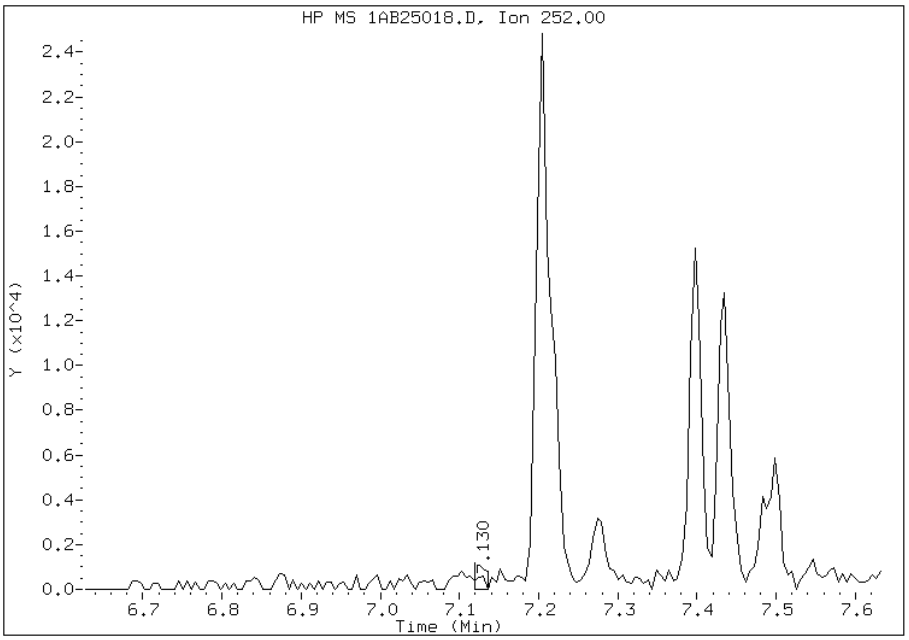
Processing Integration Results

RT: 7.13

Response: 480

Amount: 0

Conc: 1



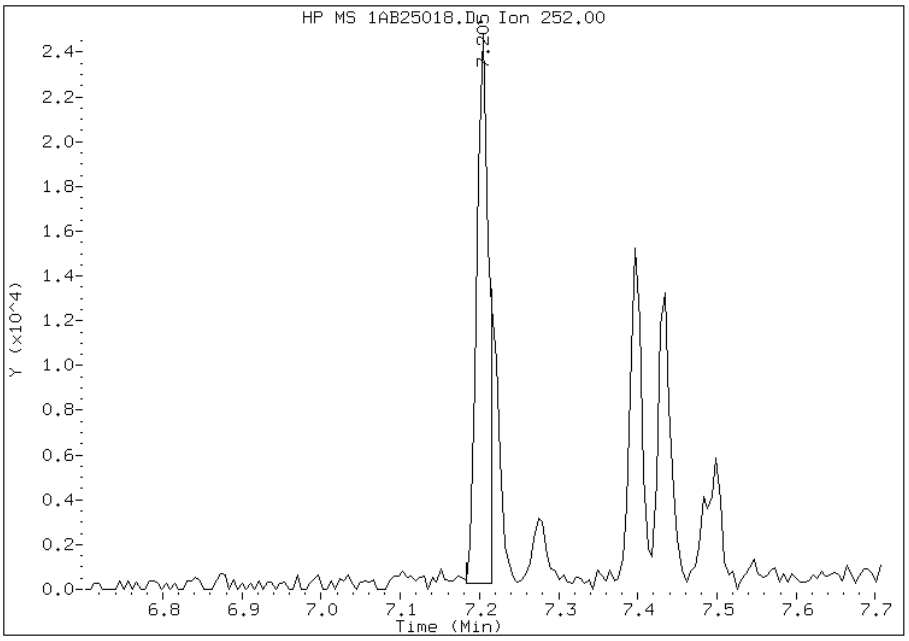
Manual Integration Results

RT: 7.20

Response: 25996

Amount: 1

Conc: 80



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB25018.D
Inj. Date and Time: 25-FEB-2013 18:00
Instrument ID: BSMA5973.i
Client ID: FM0161Q-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

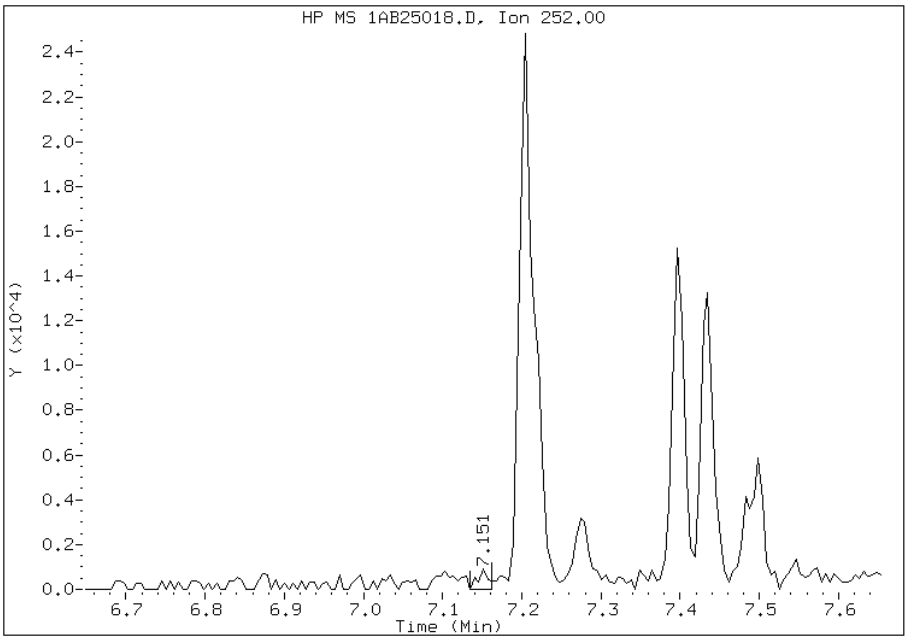
Processing Integration Results

RT: 7.15

Response: 801

Amount: 0

Conc: 2



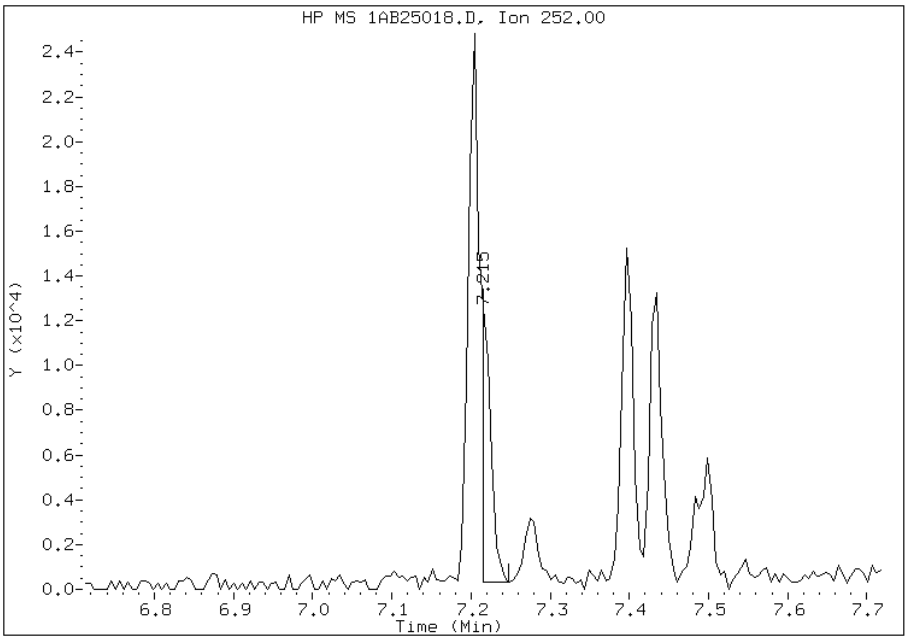
Manual Integration Results

RT: 7.22

Response: 9764

Amount: 0

Conc: 30



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB25018.D
Inj. Date and Time: 25-FEB-2013 18:00
Instrument ID: BSMA5973.i
Client ID: FM0161Q-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

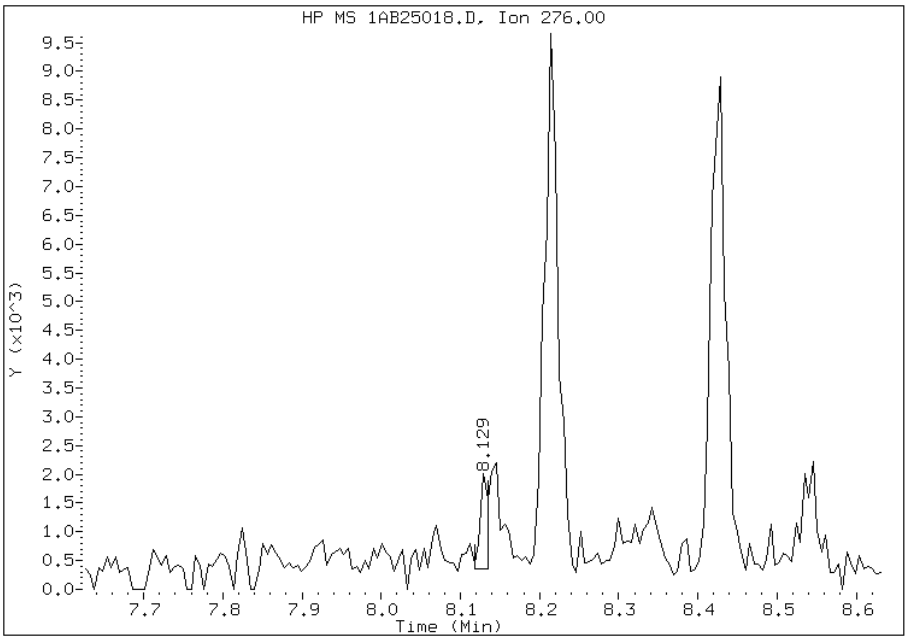
Processing Integration Results

RT: 8.13

Response: 1088

Amount: 0

Conc: 4



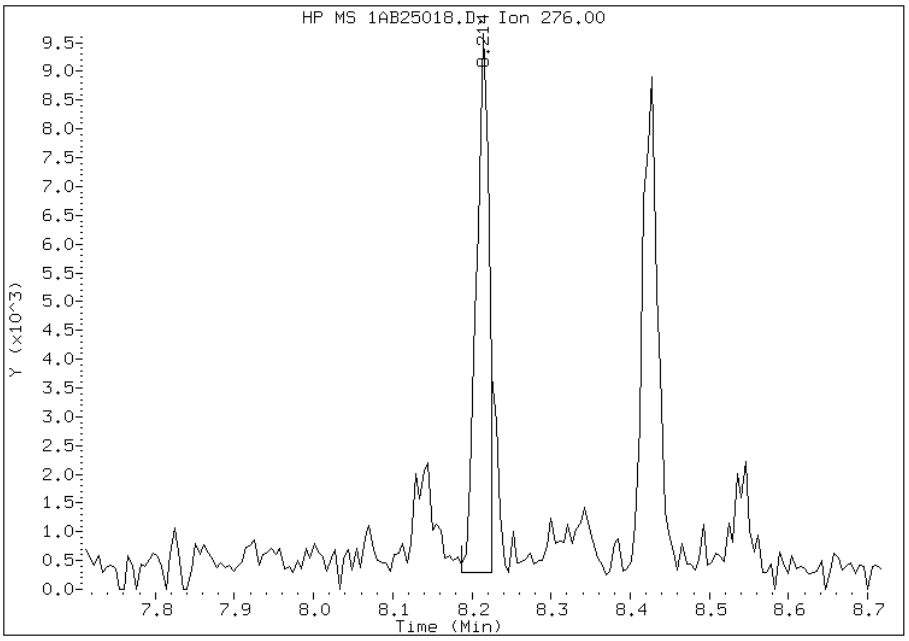
Manual Integration Results

RT: 8.21

Response: 10441

Amount: 1

Conc: 41



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161R-CS | Lab Sample ID: 680-87545-28

Matrix: Solid | Lab File ID: 1AB25019.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 10:35

Extract. Method: 3546 | Date Extracted: 02/21/2013 12:14

Sample wt/vol: 14.92(g) | Date Analyzed: 02/25/2013 18:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 5.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134820 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	21
208-96-8	Acenaphthylene	43	U	43	5.3
120-12-7	Anthracene	9.3		9.0	4.5
56-55-3	Benzo[a]anthracene	44		8.5	4.2
50-32-8	Benzo[a]pyrene	26		11	5.5
205-99-2	Benzo[b]fluoranthene	44		13	6.5
191-24-2	Benzo[g,h,i]perylene	22		21	4.7
207-08-9	Benzo[k]fluoranthene	13		8.5	3.8
218-01-9	Chrysene	40		9.6	4.8
53-70-3	Dibenz(a,h)anthracene	11	J	21	4.4
206-44-0	Fluoranthene	48		21	4.3
86-73-7	Fluorene	21	U	21	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	18	J	21	7.6
90-12-0	1-Methylnaphthalene	25	J	43	4.7
91-57-6	2-Methylnaphthalene	37	J	43	7.6
91-20-3	Naphthalene	40	J	43	4.7
85-01-8	Phenanthrene	48		8.5	4.2
129-00-0	Pyrene	37		21	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25019.D
Lab Smp Id: 680-87545-A-28-A Client Smp ID: FM0161R-CS
Inj Date : 25-FEB-2013 18:15
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87545-A-28-A
Misc Info : 680-87545-A-28-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	5.714	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.391	2.379	(1.000)	731146	40.0000	
* 6 Acenaphthene-d10	164	3.422	3.404	(1.000)	558723	40.0000	
* 10 Phenanthrene-d10	188	4.362	4.339	(1.000)	782680	40.0000	
$ 14 o-Terphenyl	230	4.640	4.622	(1.064)	70371	6.17896	439.2385
* 18 Chrysene-d12	240	6.387	6.353	(1.000)	640652	40.0000	
* 23 Perylene-d12	264	7.488	7.443	(1.000)	803299	40.0000	(H)
2 Naphthalene	128	2.402	2.389	(1.004)	9828	0.55784	39.6548
3 2-Methylnaphthalene	141	2.808	2.790	(1.174)	4794	0.52710	37.4697
4 1-Methylnaphthalene	142	2.861	2.849	(1.197)	3595	0.35496	25.2327
11 Phenanthrene	178	4.378	4.355	(1.004)	13074	0.67202	47.7713
12 Anthracene	178	4.410	4.387	(1.011)	2462	0.13028	9.2612
13 Carbazole	167	4.576	4.542	(1.049)	1921	0.11516	8.1859(Q)
15 Fluoranthene	202	5.244	5.215	(1.202)	13100	0.67345	47.8731
16 Pyrene	202	5.409	5.381	(0.847)	9728	0.51769	36.8005

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.382	6.342	(0.999)	11783	0.61596	43.7865
19 Chrysene	228	6.403	6.369	(1.002)	9742	0.56943	40.4784
20 Benzo(b)fluoranthene	252	7.204	7.165	(0.962)	12656	0.62150	44.1801(MH)
21 Benzo(k)fluoranthene	252	7.215	7.181	(0.964)	3680	0.17963	12.7689(QMH)
22 Benzo(a)pyrene	252	7.429	7.390	(0.992)	6852	0.36742	26.1188(H)
24 Indeno(1,2,3-cd)pyrene	276	8.209	8.164	(1.096)	3989	0.24933	17.7238(MH)
25 Dibenzo(a,h)anthracene	278	8.219	8.180	(1.098)	2685	0.16105	11.4481(H)
26 Benzo(g,h,i)perylene	276	8.417	8.367	(1.124)	5373	0.31575	22.4453(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB25019.D

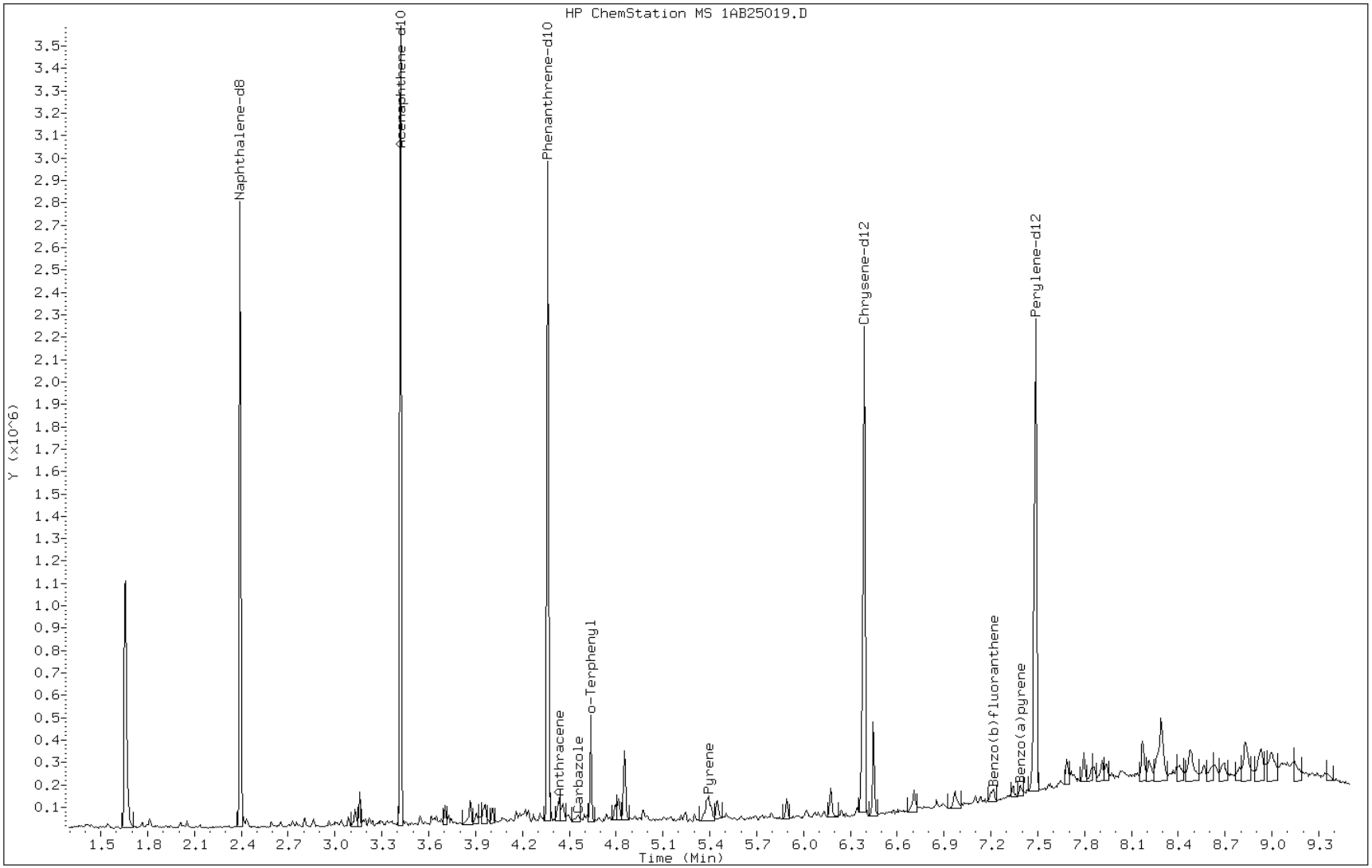
Date: 25-FEB-2013 18:15

Client ID: FM0161R-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A

Operator: SCC



Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

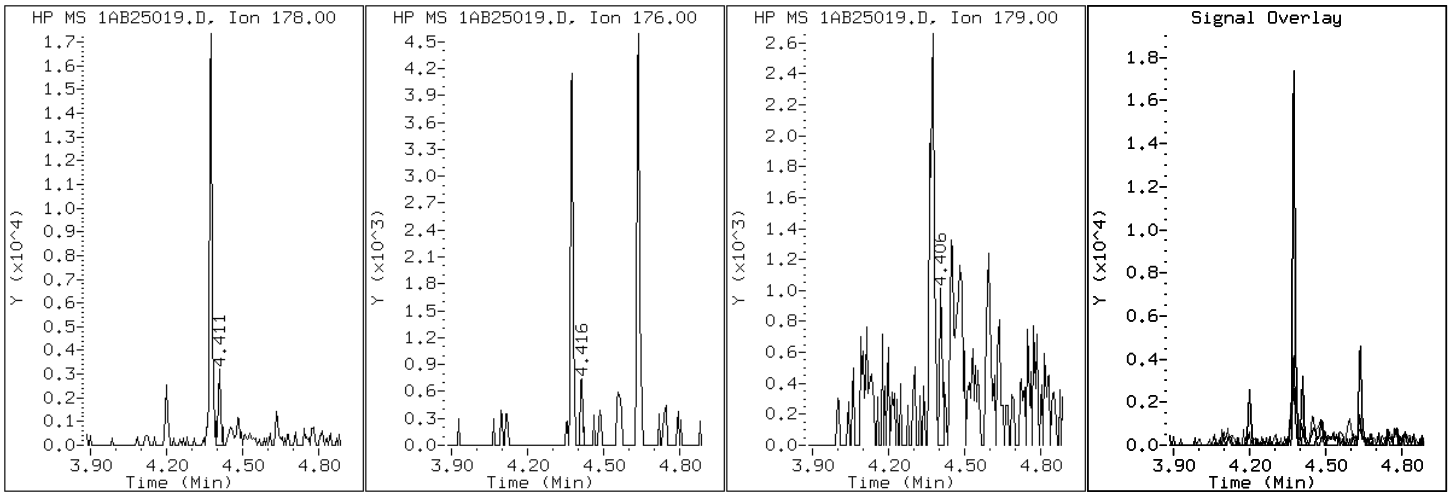
Client ID: FM0161R-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A

Operator: SCC

12 Anthracene



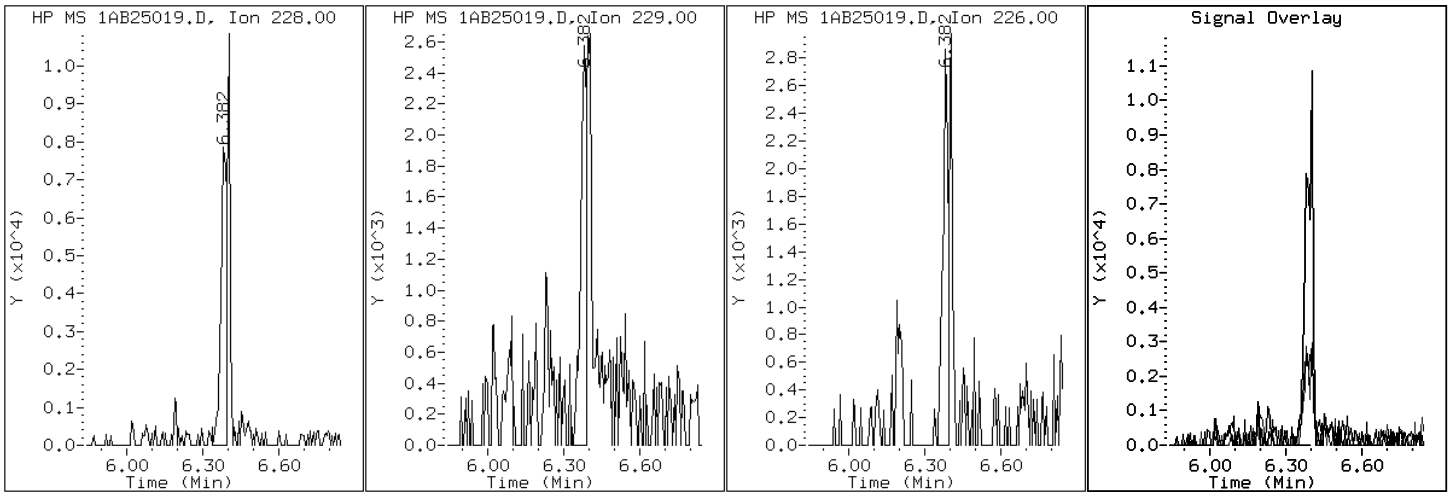
Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

Client ID: FM0161R-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A Operator: SCC

17 Benzo(a)anthracene



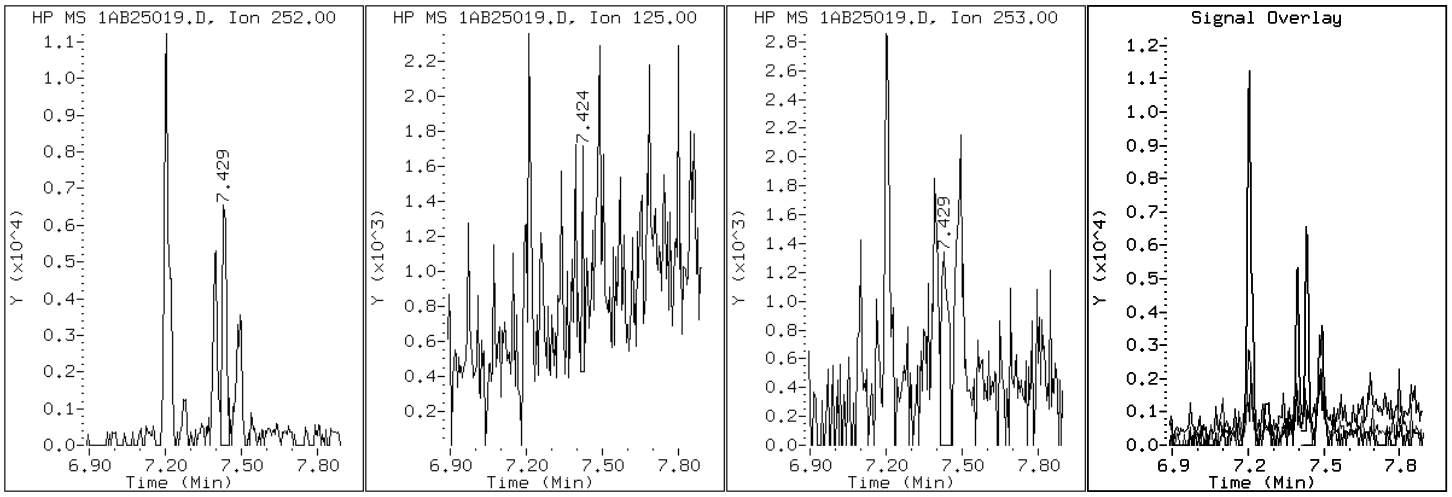
Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

Client ID: FM0161R-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

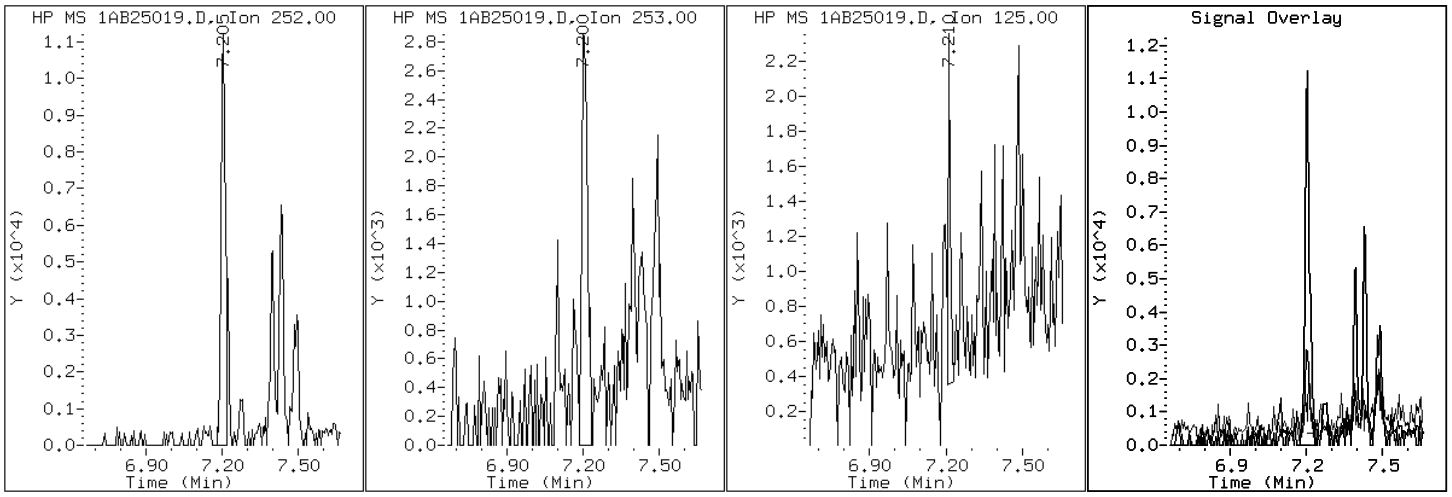
Client ID: FM0161R-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

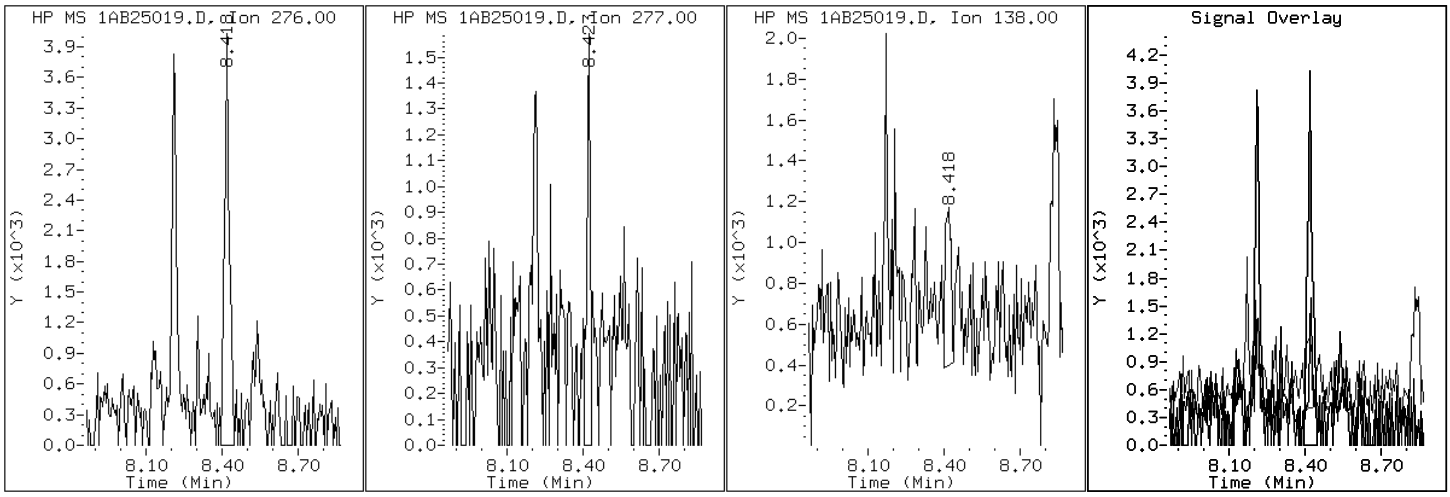
Client ID: FM0161R-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

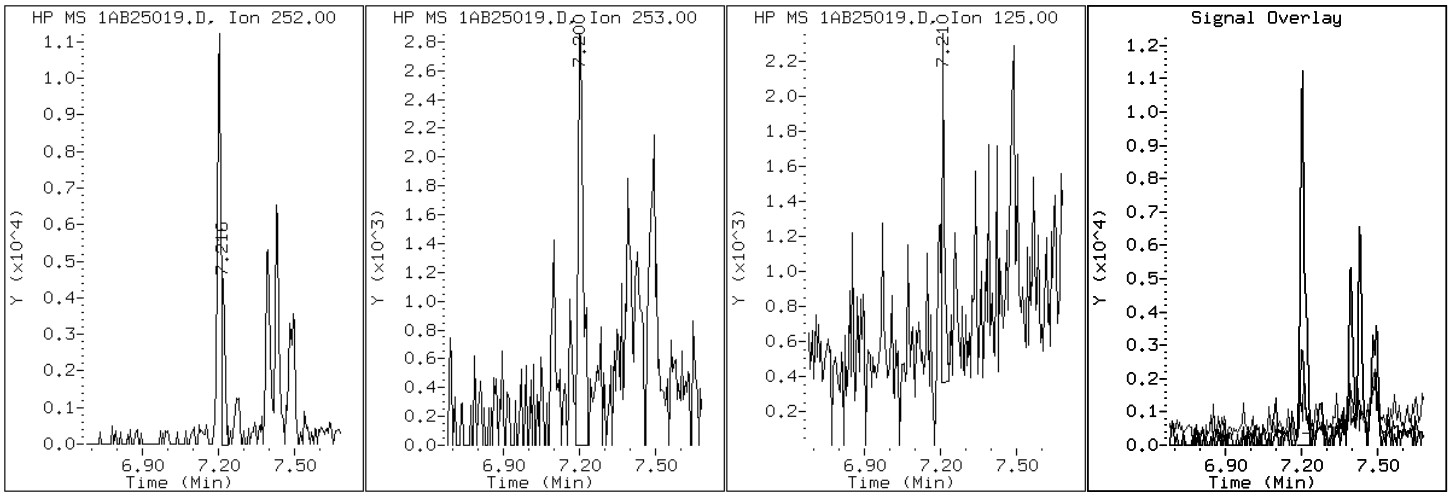
Client ID: FM0161R-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A

Operator: SCC

21 Benzo(k)fluoranthene



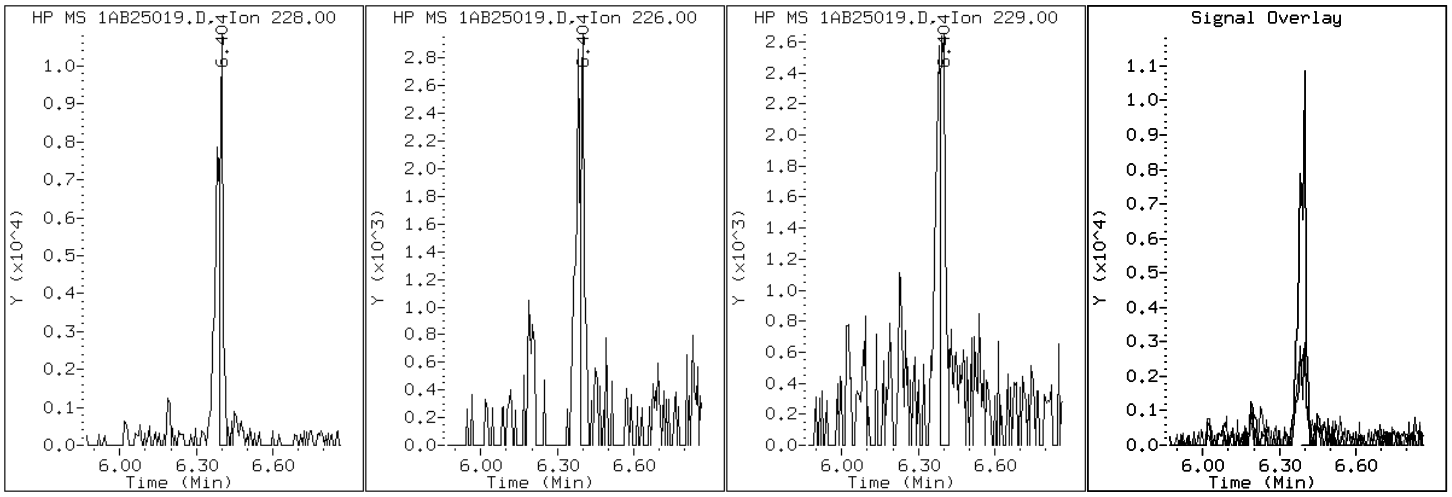
Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

Client ID: FM0161R-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A Operator: SCC

19 Chrysene



Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

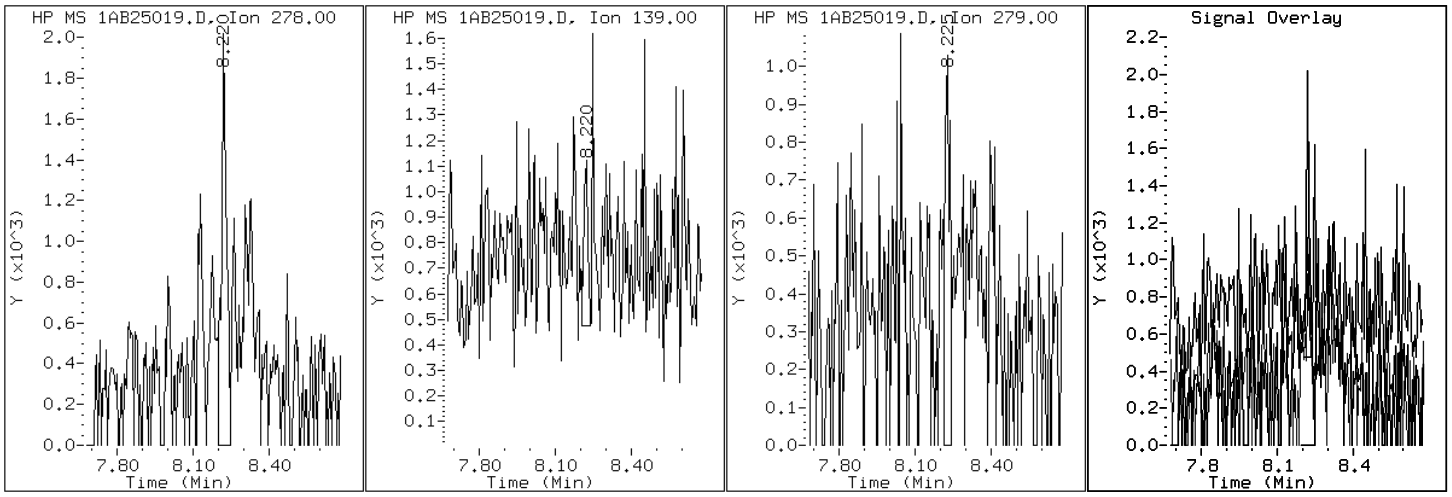
Client ID: FM0161R-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A

Operator: SCC

25 Dibenzo(a,h)anthracene



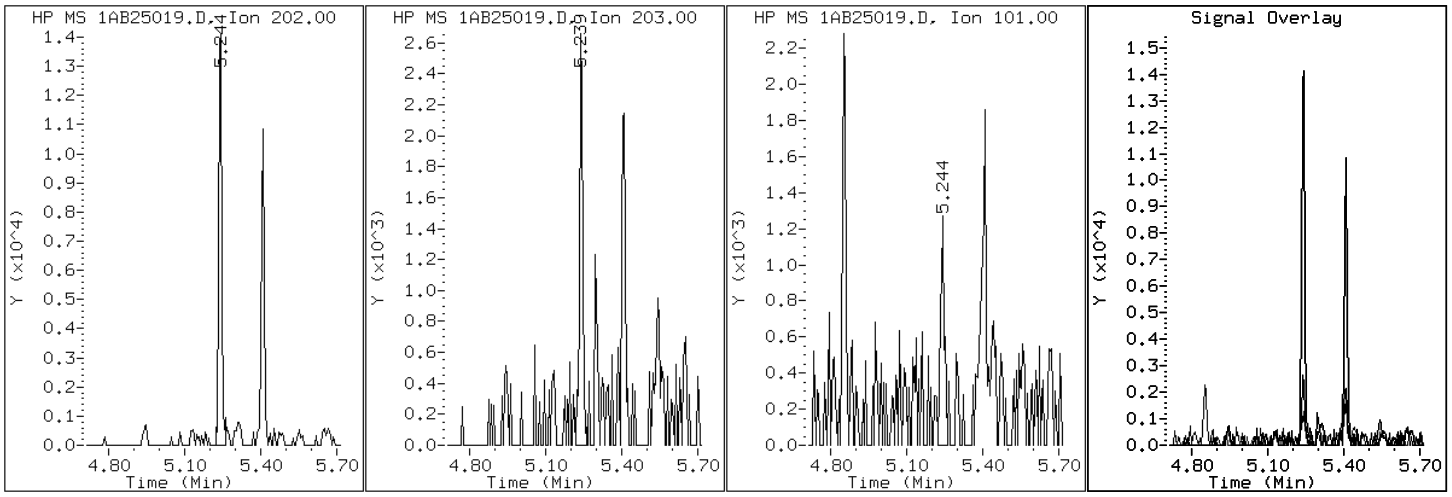
Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

Client ID: FM0161R-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A Operator: SCC

15 Fluoranthene



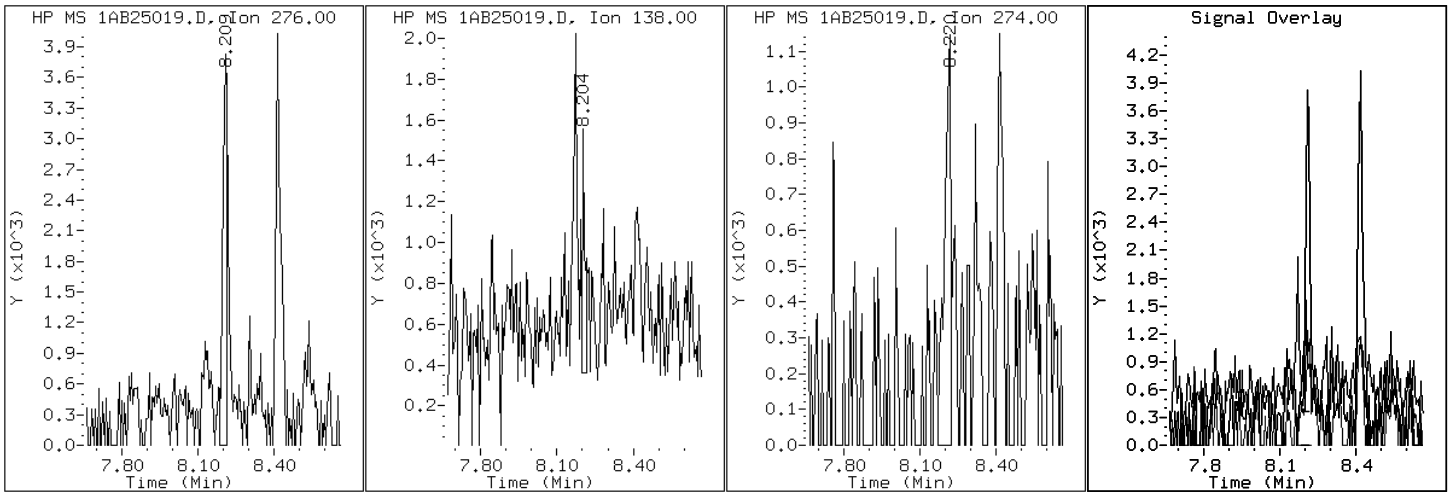
Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

Client ID: FM0161R-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A Operator: SCC

24 Indeno(1,2,3-cd)pyrene



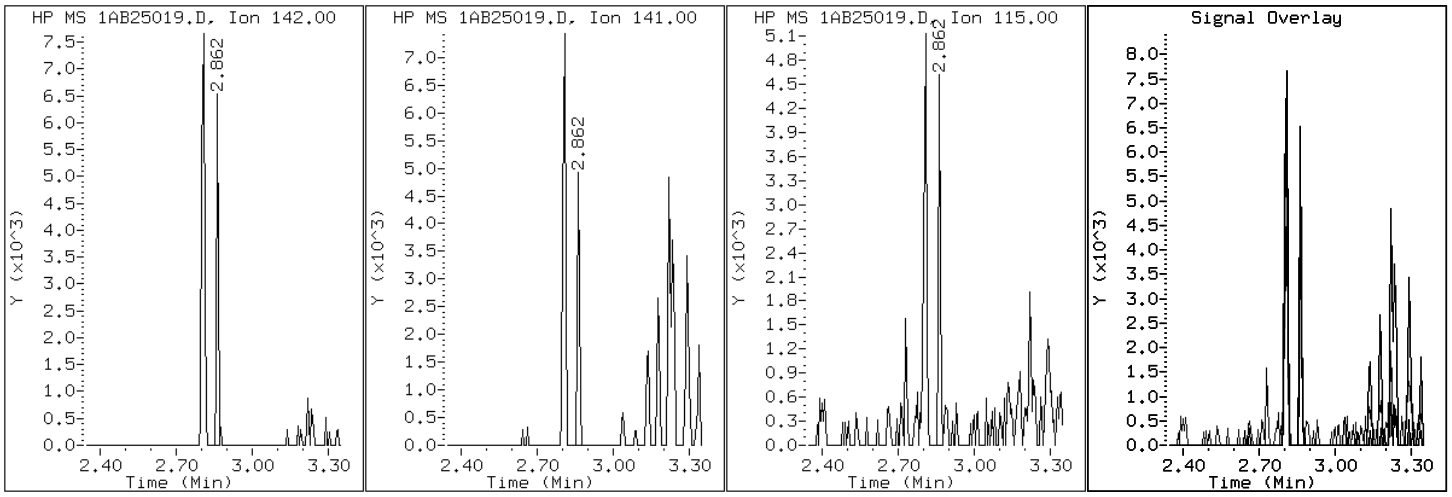
Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

Client ID: FM0161R-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A Operator: SCC

4 1-Methylnaphthalene



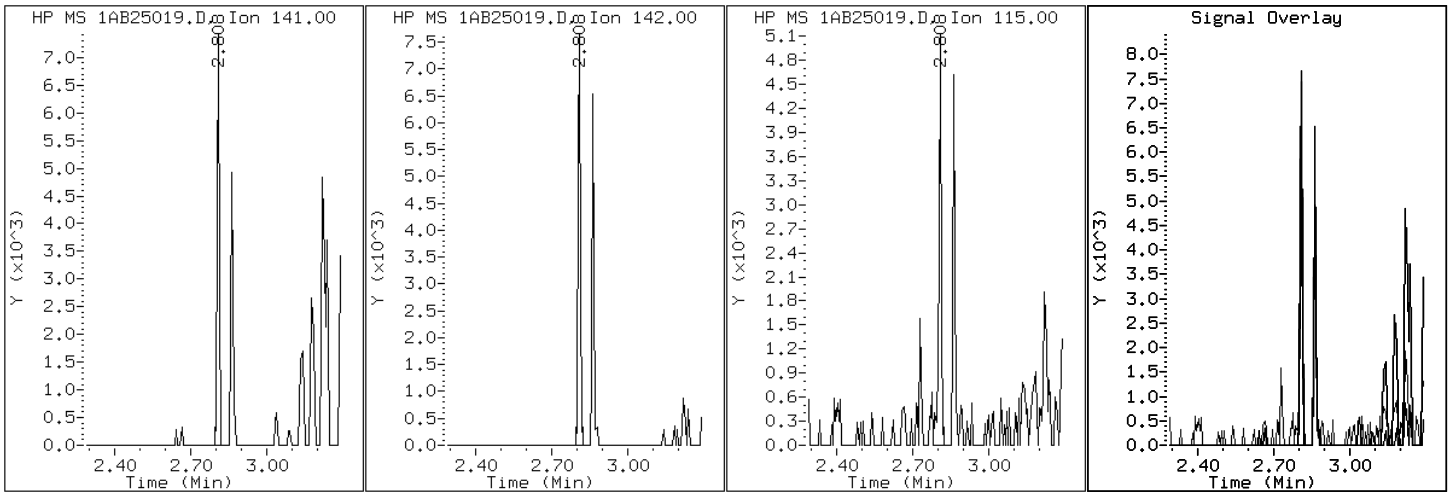
Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

Client ID: FM0161R-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A Operator: SCC

3 2-Methylnaphthalene



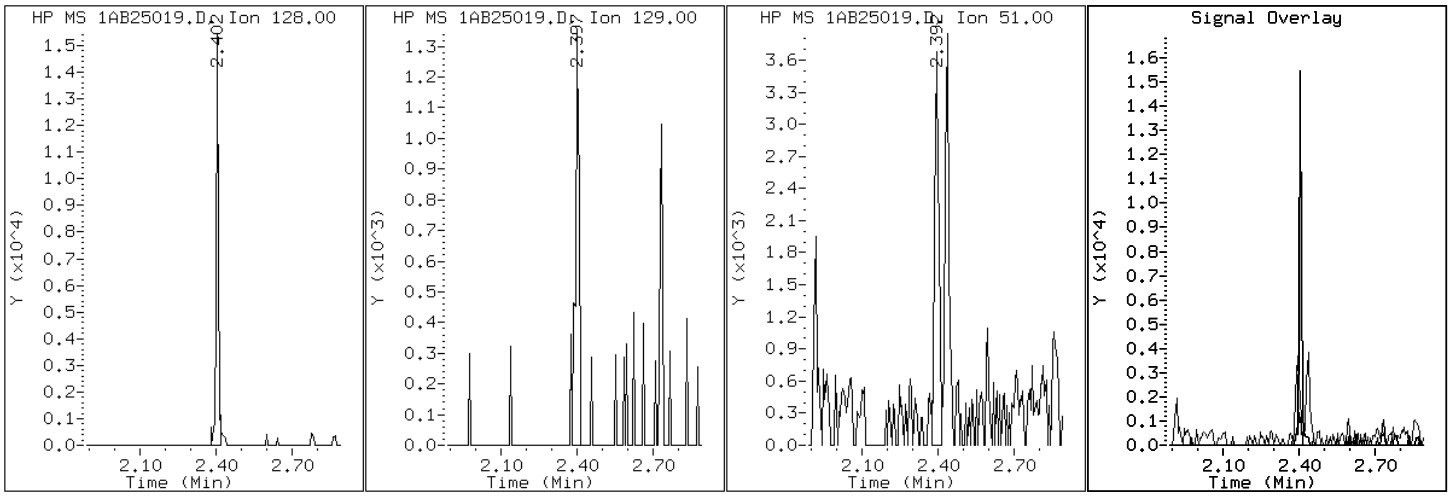
Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

Client ID: FM0161R-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A Operator: SCC

2 Naphthalene



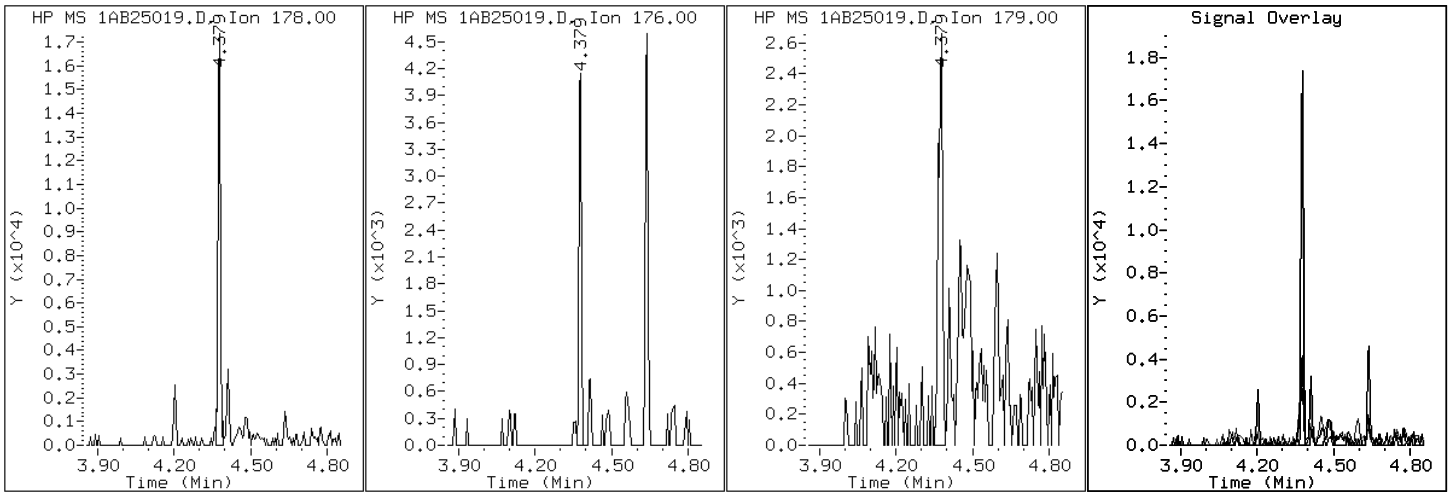
Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

Client ID: FM0161R-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A Operator: SCC

11 Phenanthrene



Data File: 1AB25019.D

Date: 25-FEB-2013 18:15

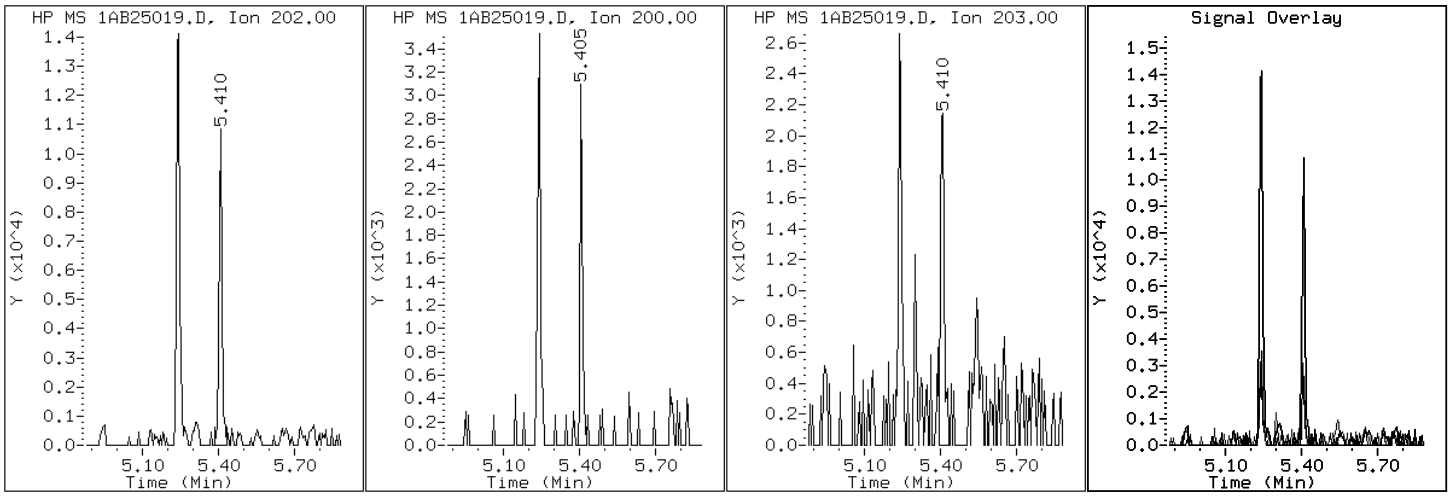
Client ID: FM0161R-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-28-A

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB25019.D
Inj. Date and Time: 25-FEB-2013 18:15
Instrument ID: BSMA5973.i
Client ID: FM0161R-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/26/2013

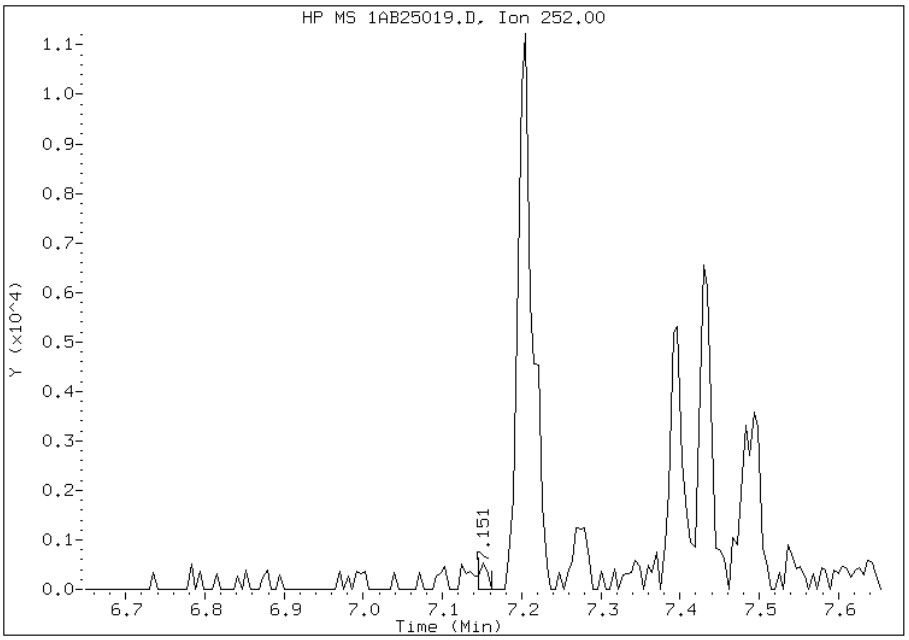
Processing Integration Results

RT: 7.15

Response: 363

Amount: 0

Conc: 1



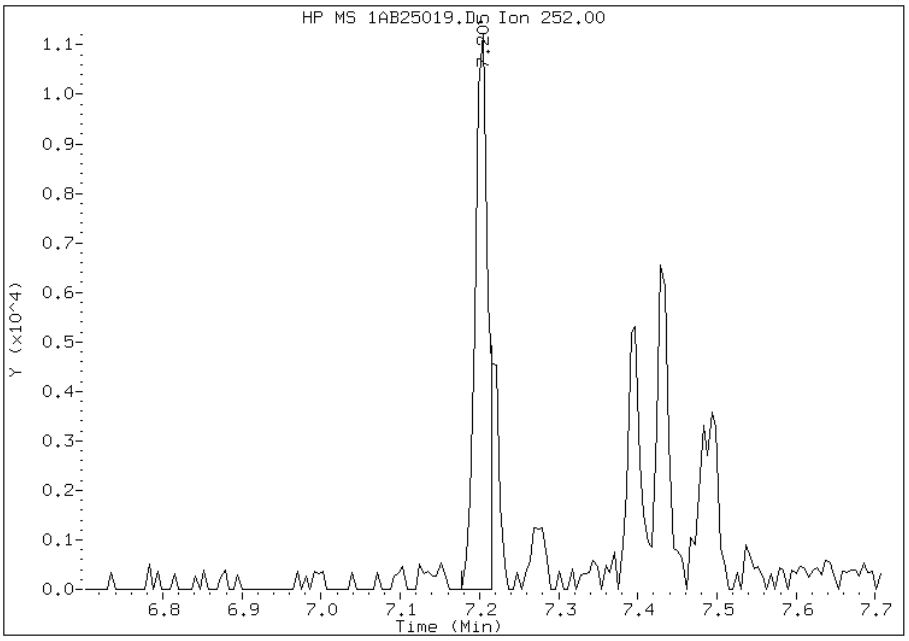
Manual Integration Results

RT: 7.20

Response: 12656

Amount: 1

Conc: 44



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB25019.D
Inj. Date and Time: 25-FEB-2013 18:15
Instrument ID: BSMA5973.i
Client ID: FM0161R-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/26/2013

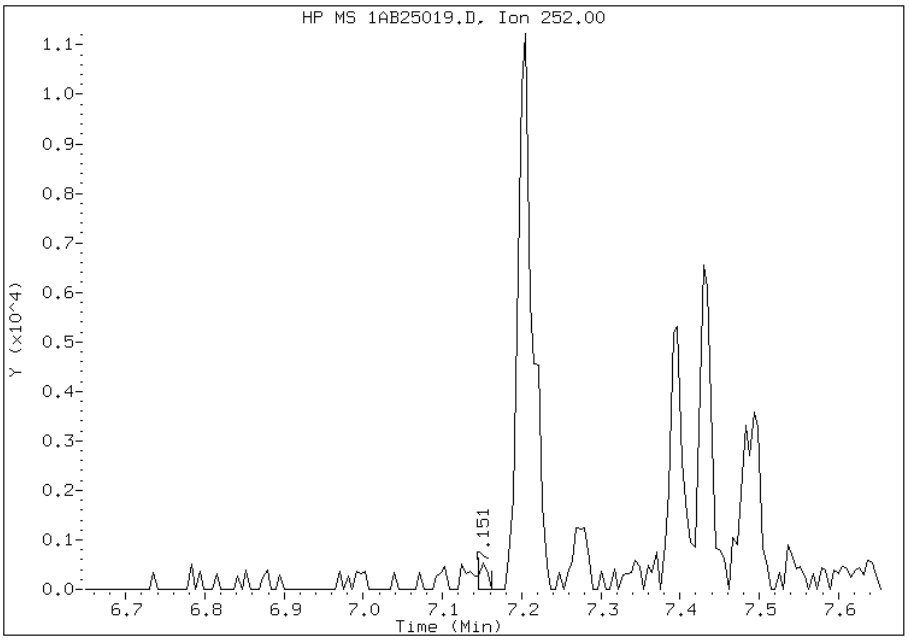
Processing Integration Results

RT: 7.15

Response: 363

Amount: 0

Conc: 1



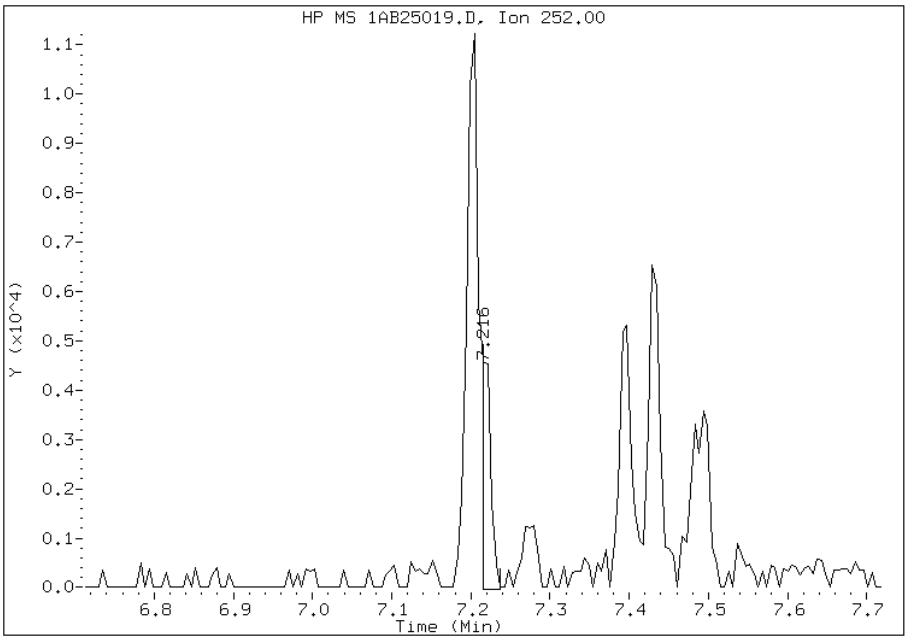
Manual Integration Results

RT: 7.22

Response: 3680

Amount: 0

Conc: 13



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB25019.D
Inj. Date and Time: 25-FEB-2013 18:15
Instrument ID: BSMA5973.i
Client ID: FM0161R-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

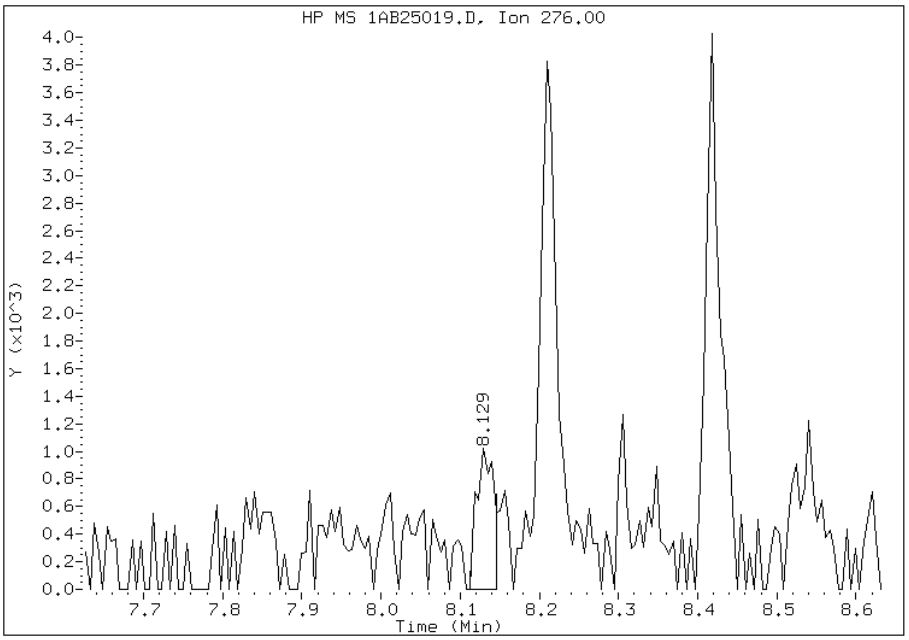
Processing Integration Results

RT: 8.13

Response: 1504

Amount: 0

Conc: 7



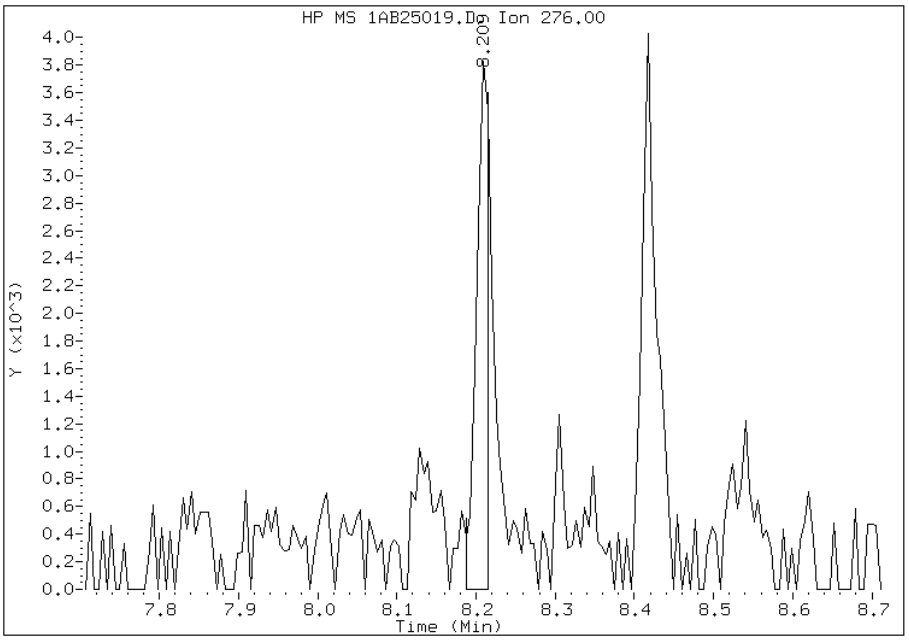
Manual Integration Results

RT: 8.21

Response: 3989

Amount: 0

Conc: 18



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 12:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161S-CS | Lab Sample ID: 680-87545-29

Matrix: Solid | Lab File ID: 1DB22013.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 10:45

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 14.97(g) | Date Analyzed: 02/22/2013 16:21

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 2.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	9.7	J	41	5.1
120-12-7	Anthracene	16		8.6	4.3
56-55-3	Benzo[a]anthracene	57		8.2	4.0
50-32-8	Benzo[a]pyrene	11	U	11	5.3
205-99-2	Benzo[b]fluoranthene	95		12	6.2
191-24-2	Benzo[g,h,i]perylene	43		20	4.5
207-08-9	Benzo[k]fluoranthene	8.2	U	8.2	3.7
218-01-9	Chrysene	97		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	16	J	20	4.2
206-44-0	Fluoranthene	120		20	4.1
86-73-7	Fluorene	8.5	J	20	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	37		20	7.3
90-12-0	1-Methylnaphthalene	53		41	4.5
91-57-6	2-Methylnaphthalene	70		41	7.3
91-20-3	Naphthalene	97		41	4.5
85-01-8	Phenanthrene	96		8.2	4.0
129-00-0	Pyrene	84		20	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22013.D
Lab Smp Id: 680-87545-A-29-A Client Smp ID: FM0161S-CS
Inj Date : 22-FEB-2013 16:21
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-29-A
Misc Info : 680-87545-A-29-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	2.064	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.184	6.188	(1.000)	3423039	40.0000	
* 6 Acenaphthene-d10	164	7.859	7.856	(1.000)	2061377	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.114	(1.000)	3414055	40.0000	
$ 13 o-Terphenyl	230	9.422	9.431	(1.034)	415804	7.87582	540
* 17 Chrysene-d12	240	11.461	11.464	(1.000)	3439984	40.0000	
* 22 Perylene-d12	264	13.347	13.344	(1.000)	3535971	40.0000	
2 Naphthalene	128	6.202	6.205	(1.003)	130784	1.42826	97
3 2-Methylnaphthalene	142	6.901	6.910	(1.116)	60216	1.03233	70
4 1-Methylnaphthalene	142	6.995	6.999	(1.131)	42327	0.77491	53
5 Acenaphthylene	152	7.724	7.733	(0.983)	12921	0.14217	9.7
8 Fluorene	166	8.323	8.326	(1.059)	8022	0.12391	8.4
10 Phenanthrene	178	9.134	9.137	(1.002)	136354	1.40696	96
11 Anthracene	178	9.175	9.184	(1.006)	23391	0.24123	16
12 Carbazole	167	9.310	9.313	(1.021)	15123	0.17447	12(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.115	10.124	(1.110)	173413	1.71464	120
15 Pyrene	202	10.303	10.312	(0.899)	131935	1.23644	84
16 Benzo(a)anthracene	228	11.443	11.446	(0.998)	78140	0.82970	56
18 Chrysene	228	11.484	11.499	(1.002)	138510	1.42456	97
19 Benzo(b)fluoranthene	252	12.771	12.792	(0.957)	126696	1.39203	95(H)
20 Benzo(k)fluoranthene	252	12.841	12.839	(0.962)	400	0.00420	0.29(aQ)
21 Benzo(a)pyrene	252	13.276	13.262	(0.995)	641	0.00712	0.48(aQ)
23 Indeno(1,2,3-cd)pyrene	276	14.951	14.995	(1.120)	52746	0.54876	37(MH)
24 Dibenzo(a,h)anthracene	278	14.986	15.030	(1.123)	20652	0.23265	16(H)
25 Benzo(g,h,i)perylene	276	15.415	15.465	(1.155)	57713	0.62976	43(H)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22013.D

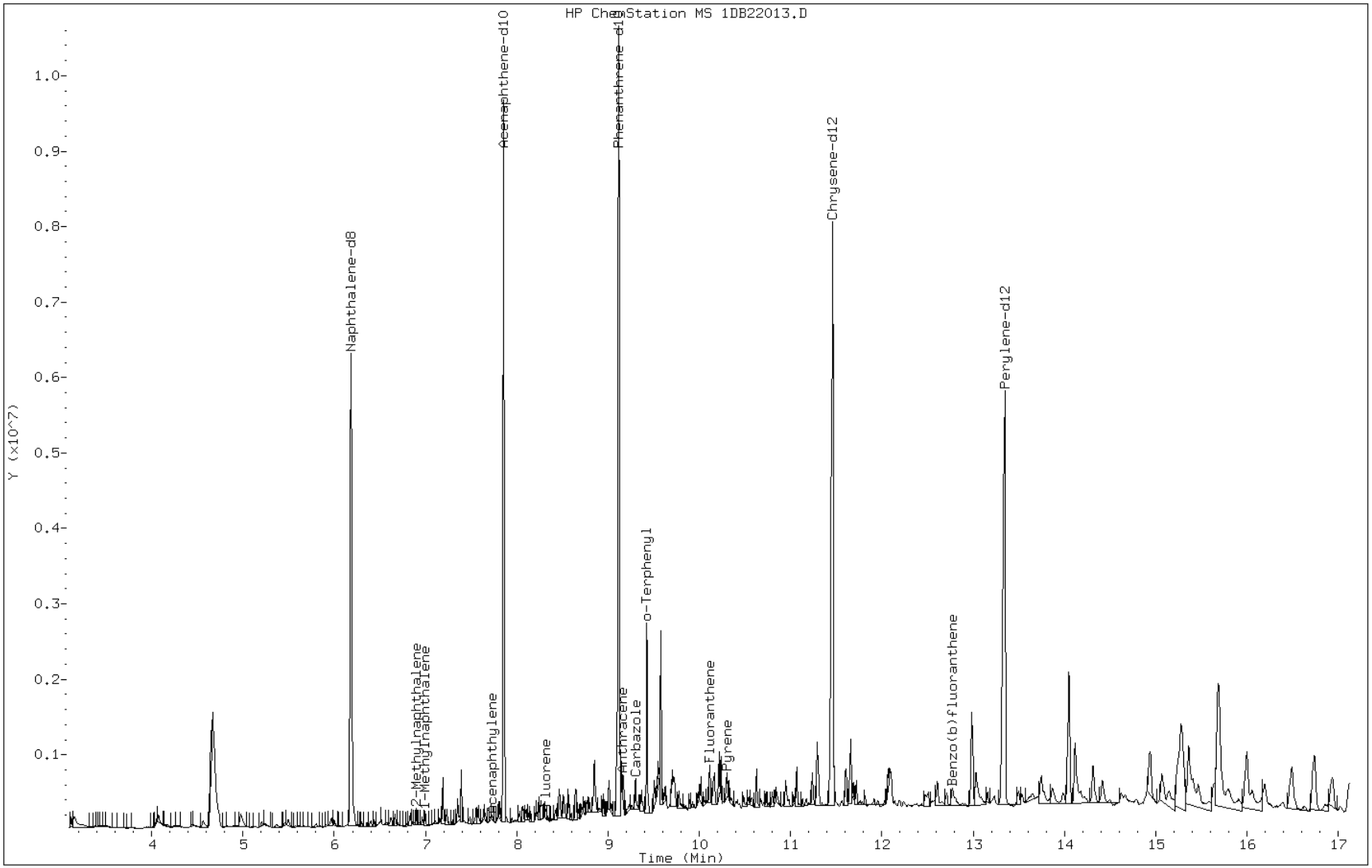
Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A

Operator: SCC



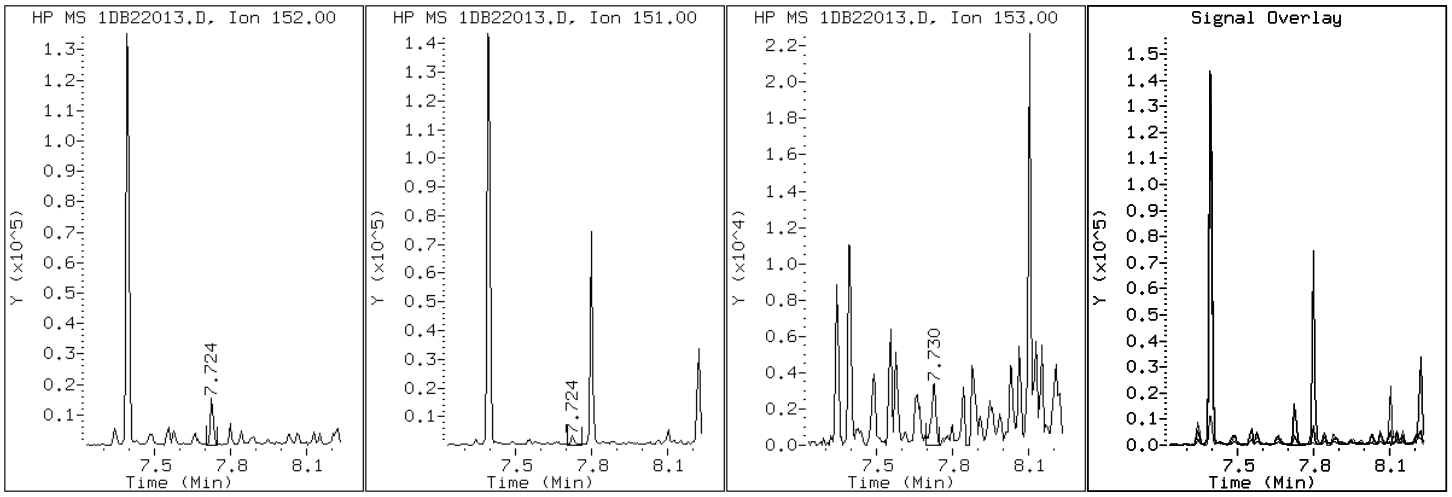
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

5 Acenaphthylene



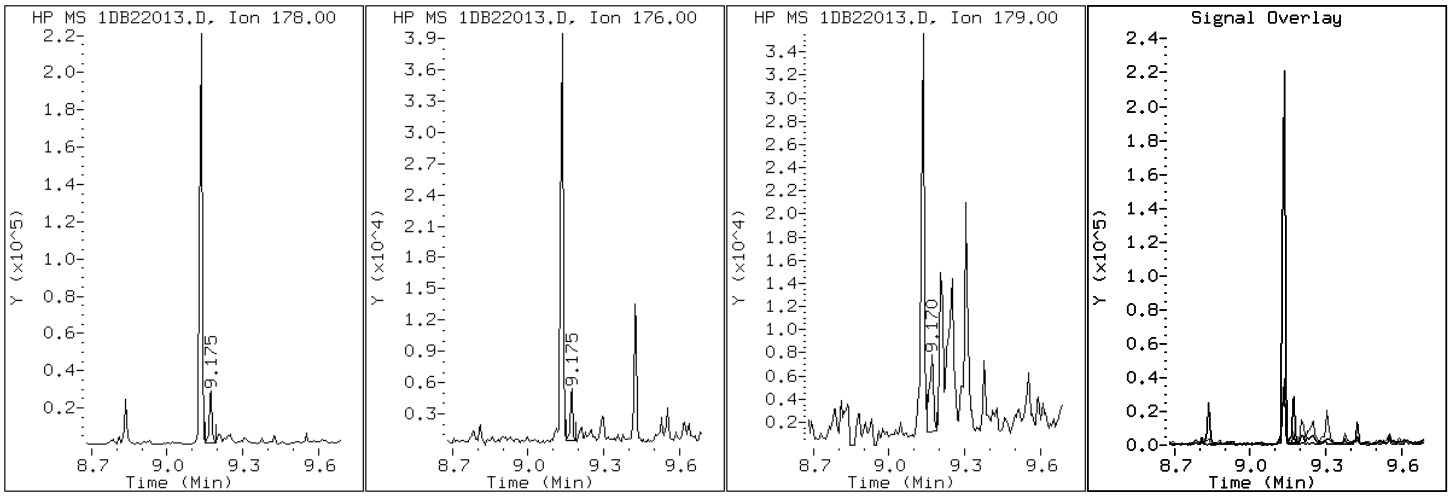
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

11 Anthracene



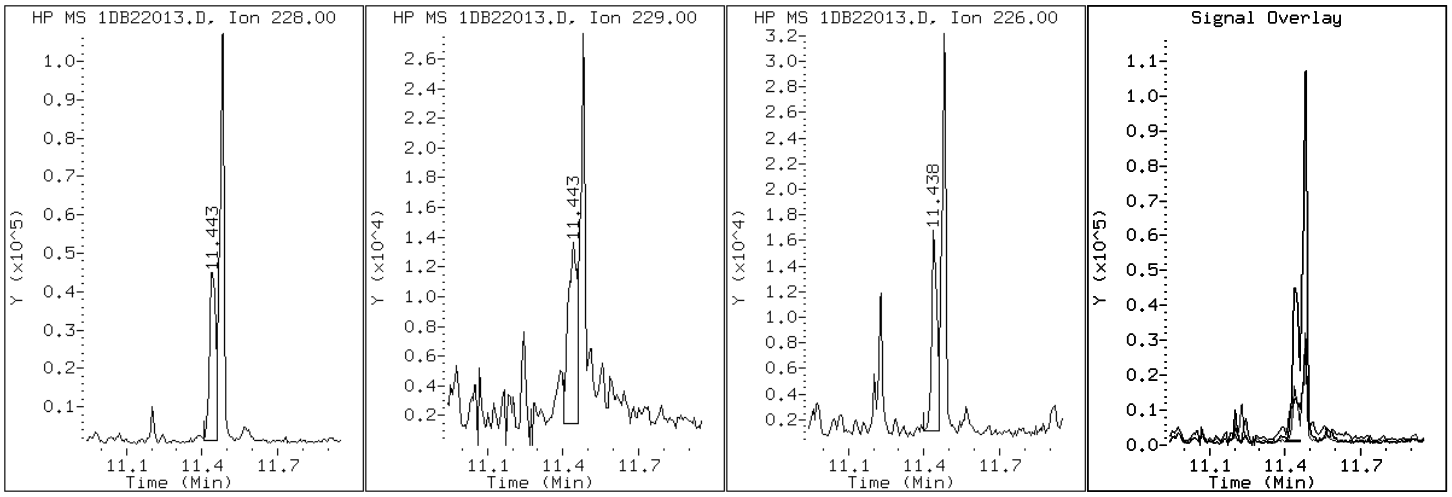
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

16 Benzo(a)anthracene



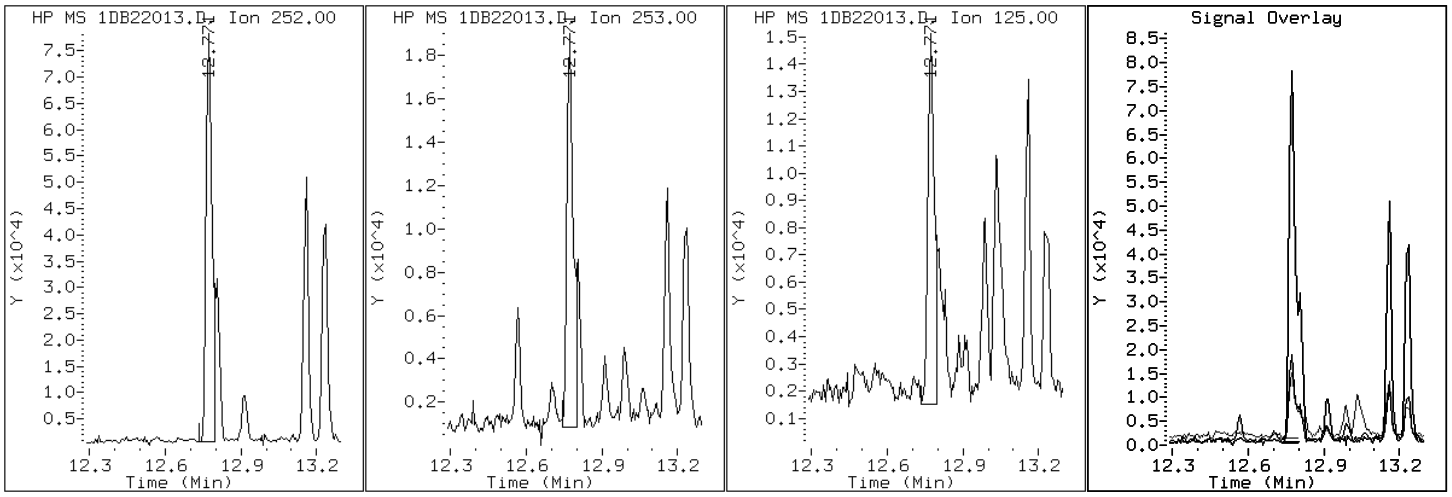
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

19 Benzo(b)fluoranthene



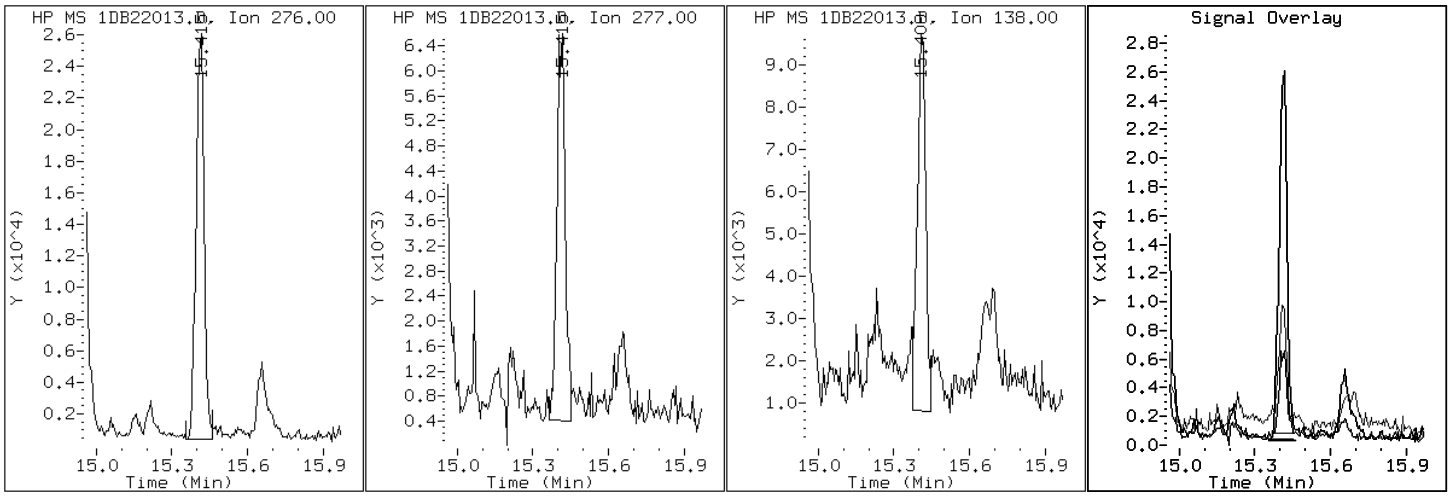
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

25 Benzo(g,h,i)perylene



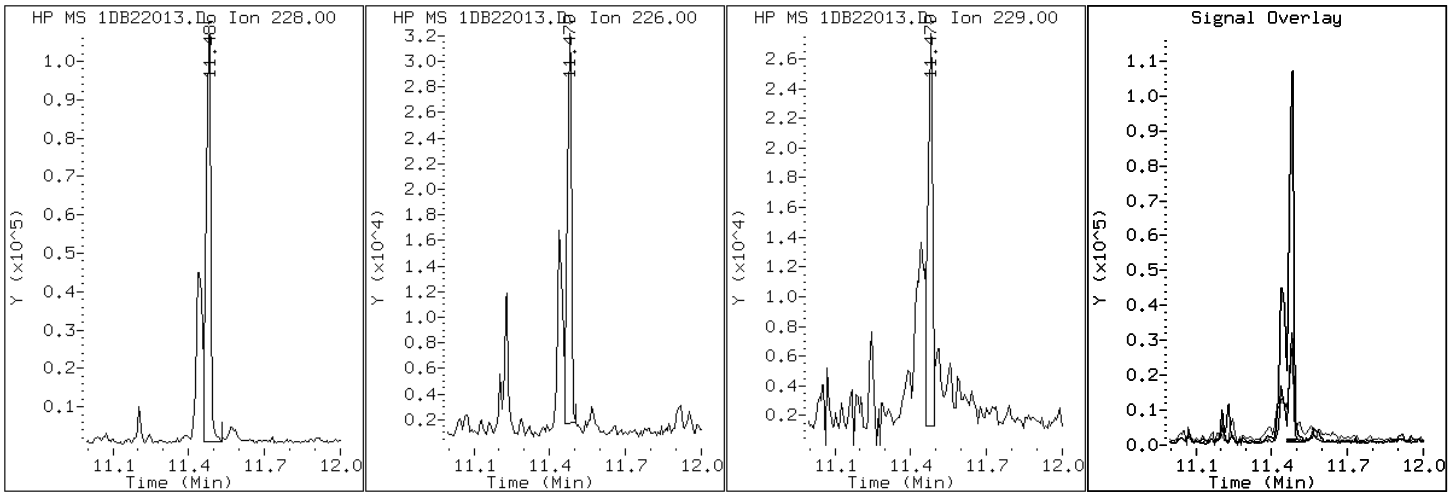
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

18 Chrysene



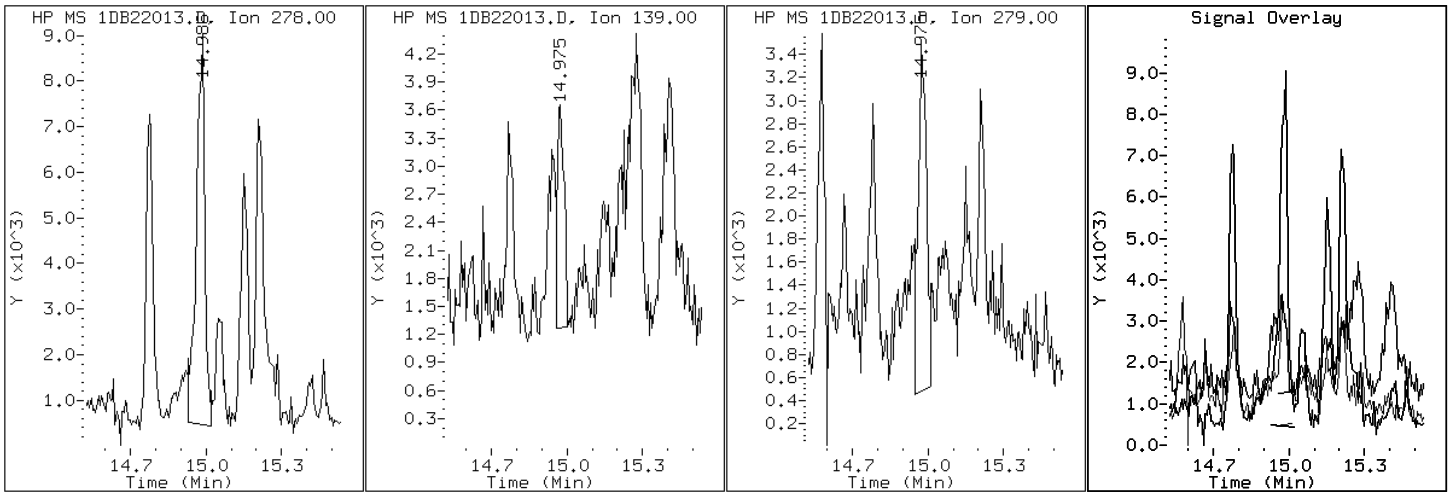
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

24 Dibenzo(a,h)anthracene



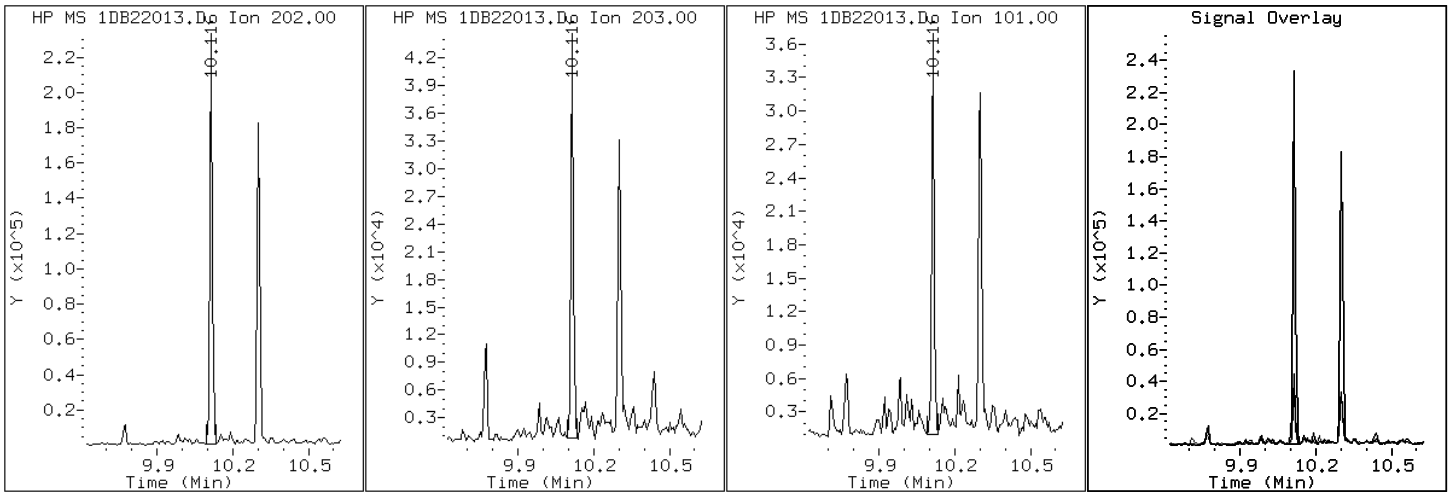
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

14 Fluoranthene



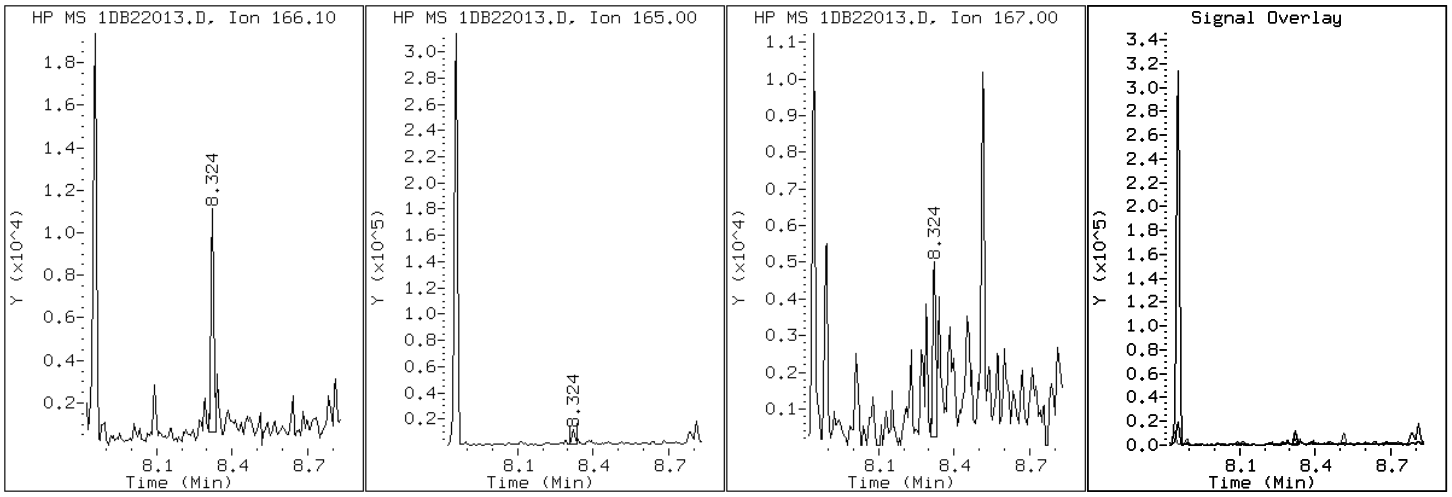
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

8 Fluorene



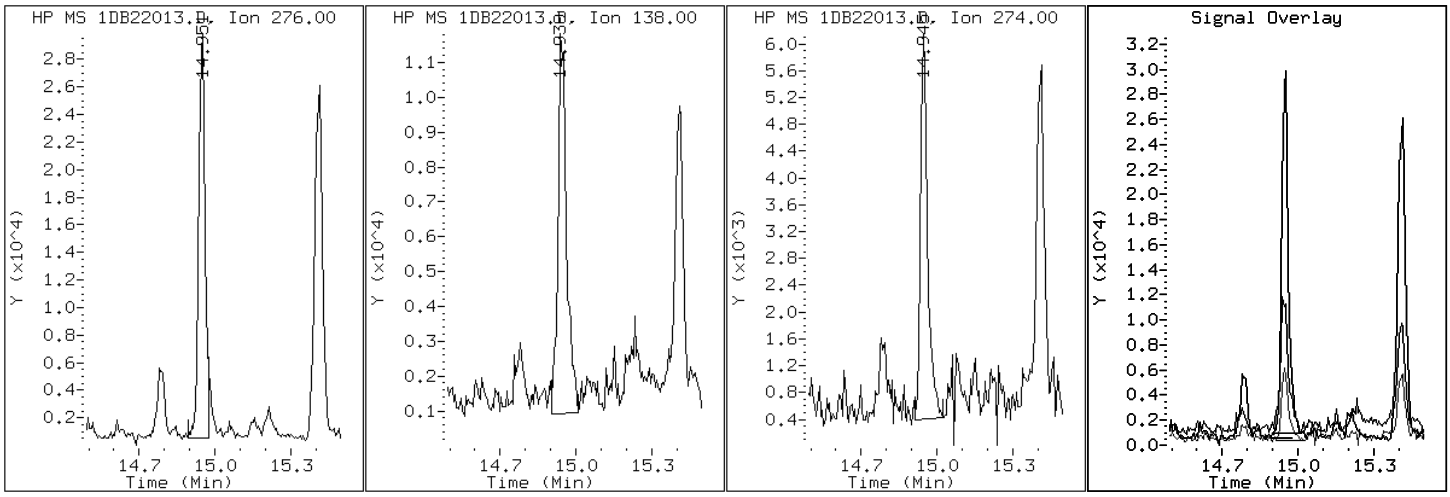
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



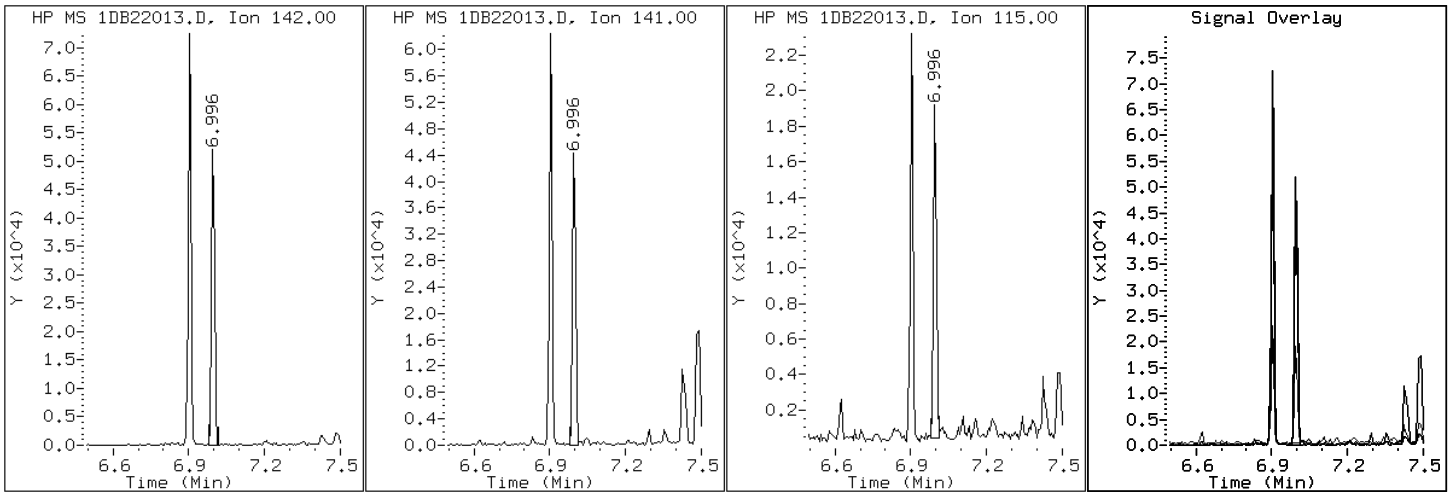
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

4 1-Methylnaphthalene



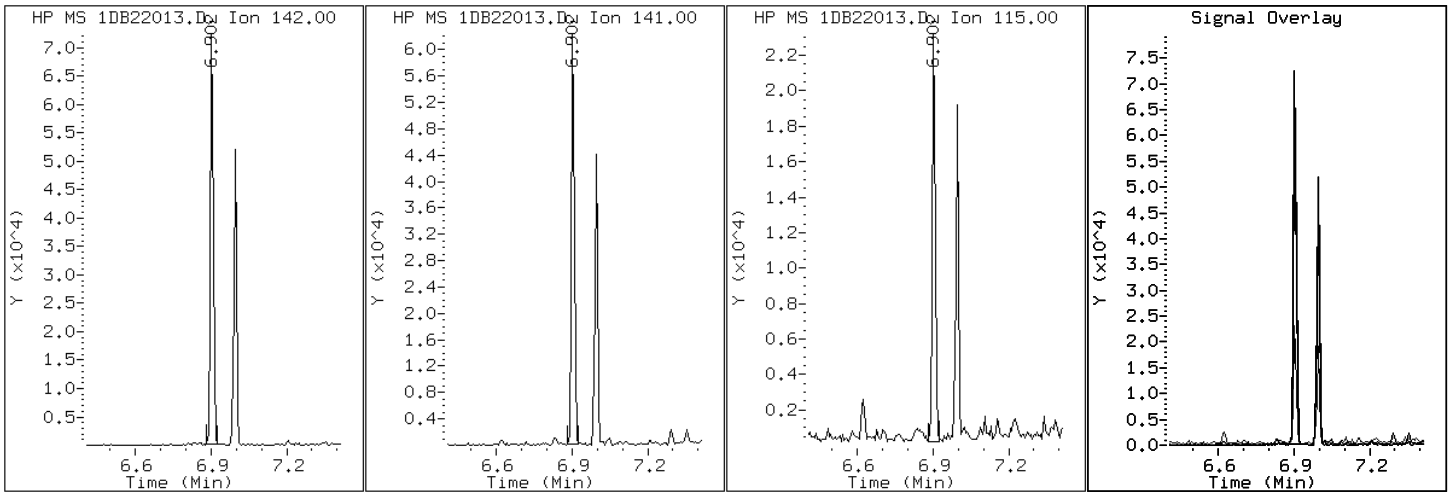
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

3 2-Methylnaphthalene



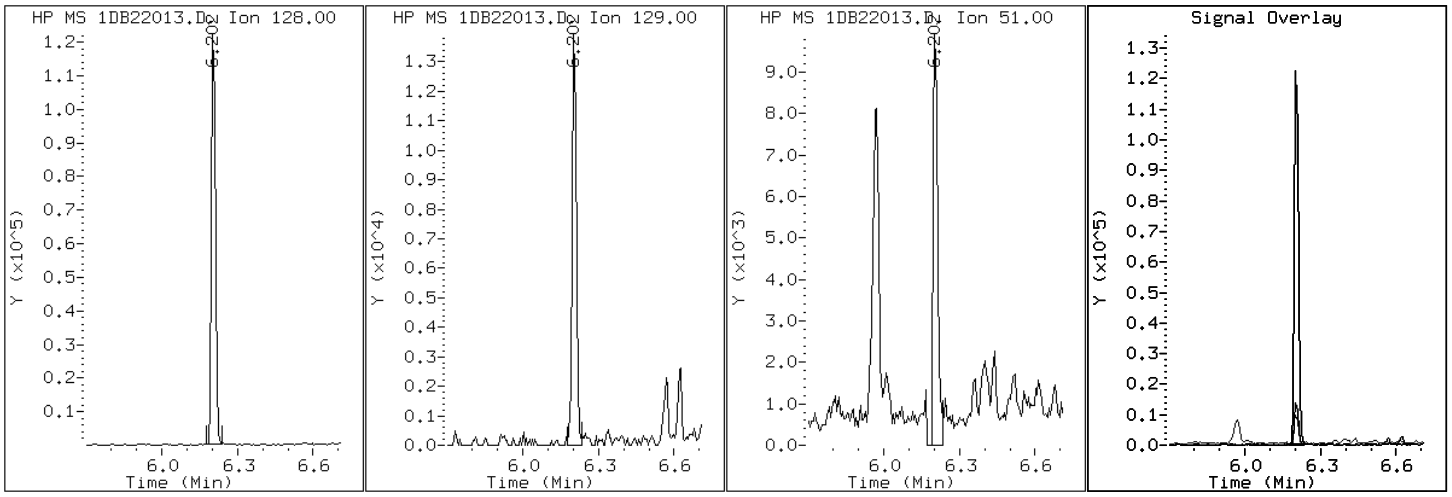
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

2 Naphthalene



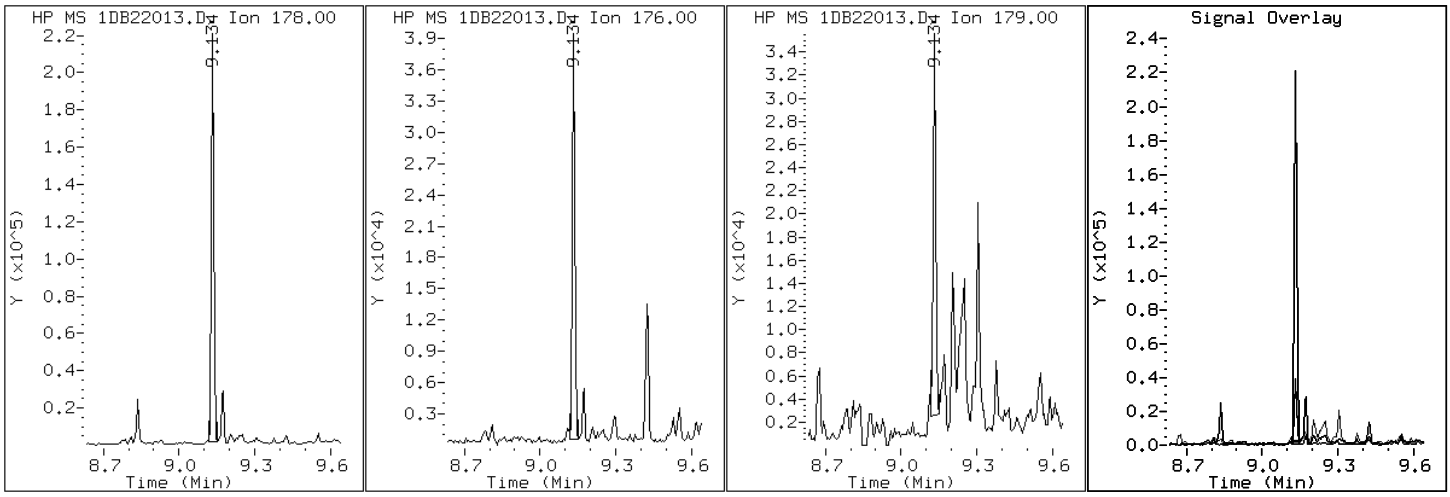
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

10 Phenanthrene



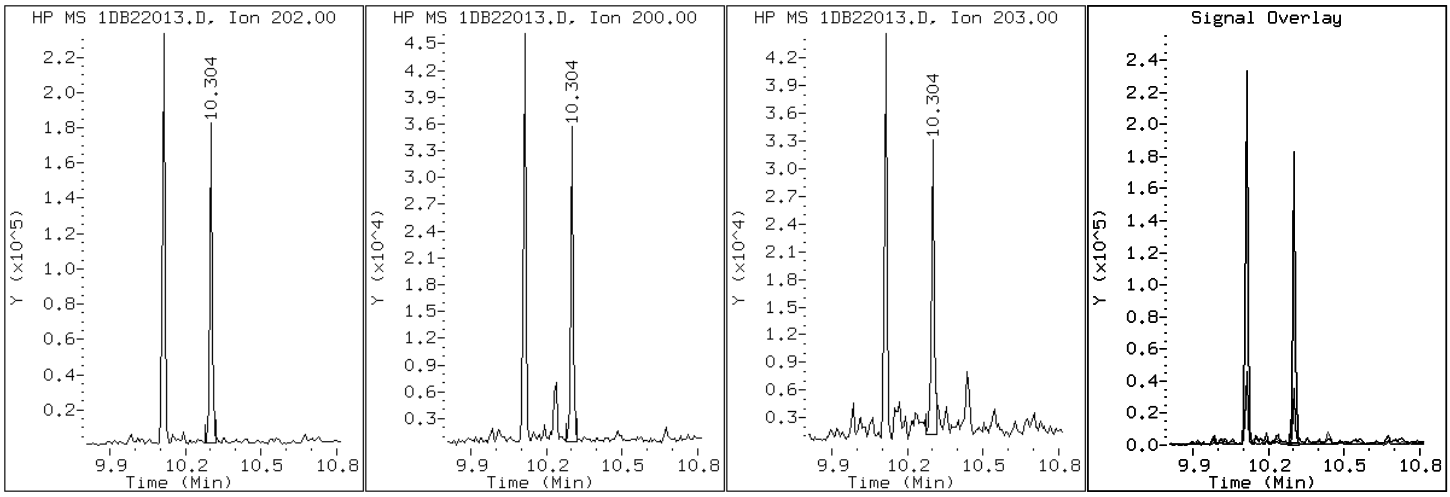
Data File: 1DB22013.D

Date: 22-FEB-2013 16:21

Client ID: FM0161S-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-29-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB22013.D
Inj. Date and Time: 22-FEB-2013 16:21
Instrument ID: BSMSD.i
Client ID: FM0161S-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

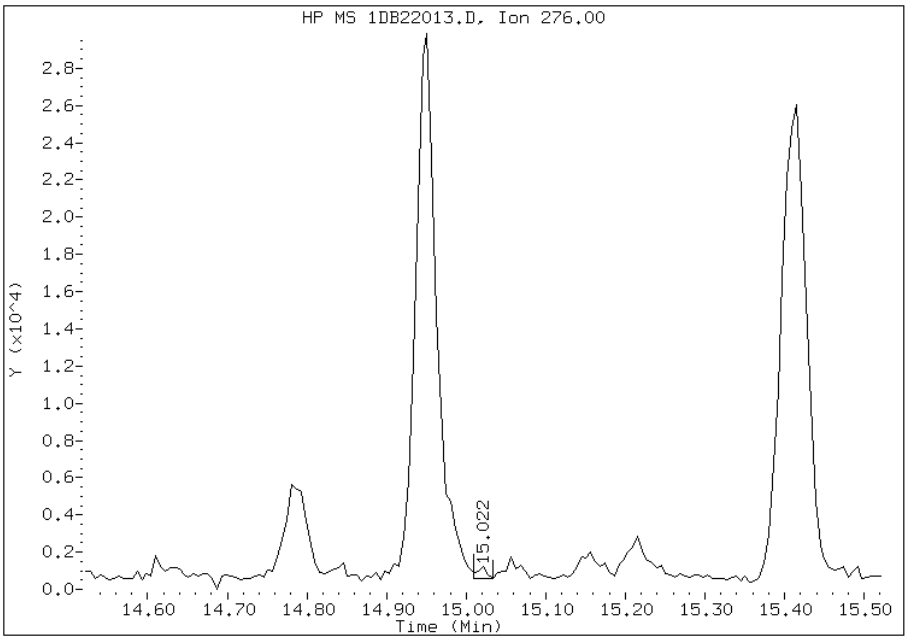
Processing Integration Results

RT: 15.02

Response: 505

Amount: 0

Conc: 0



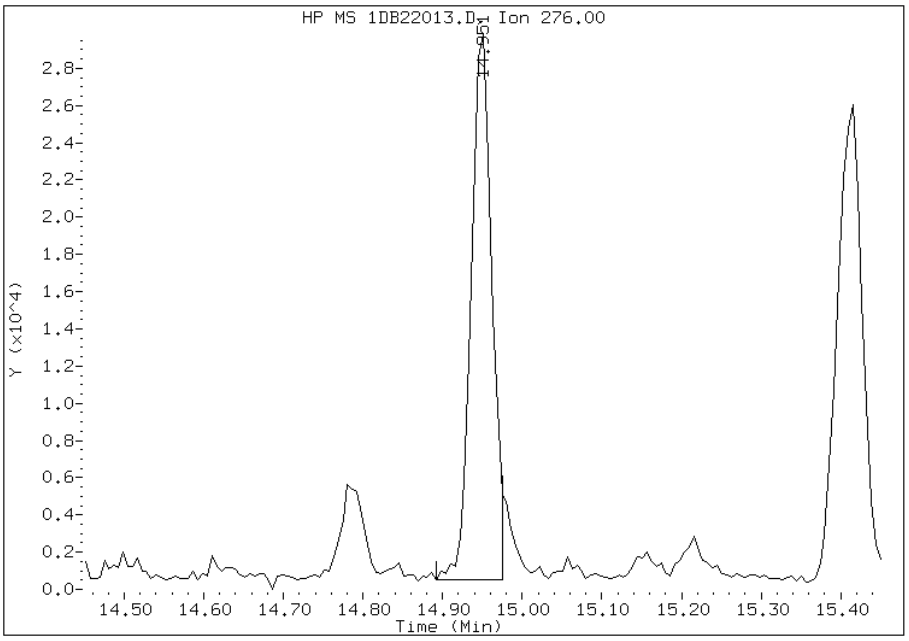
Manual Integration Results

RT: 14.95

Response: 52746

Amount: 1

Conc: 37



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 15:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161T-CS | Lab Sample ID: 680-87545-30

Matrix: Solid | Lab File ID: 1DB22014.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 10:49

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 14.94(g) | Date Analyzed: 02/22/2013 16:44

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 1.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	6.9	J	41	5.1
120-12-7	Anthracene	31		8.6	4.3
56-55-3	Benzo[a]anthracene	120		8.2	4.0
50-32-8	Benzo[a]pyrene	91		11	5.3
205-99-2	Benzo[b]fluoranthene	160		12	6.2
191-24-2	Benzo[g,h,i]perylene	70		20	4.5
207-08-9	Benzo[k]fluoranthene	48		8.2	3.7
218-01-9	Chrysene	140		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	26		20	4.2
206-44-0	Fluoranthene	190		20	4.1
86-73-7	Fluorene	13	J	20	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	64		20	7.3
90-12-0	1-Methylnaphthalene	56		41	4.5
91-57-6	2-Methylnaphthalene	69		41	7.3
91-20-3	Naphthalene	130		41	4.5
85-01-8	Phenanthrene	170		8.2	4.0
129-00-0	Pyrene	140		20	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22014.D
Lab Smp Id: 680-87545-A-30-A Client Smp ID: FM0161T-CS
Inj Date : 22-FEB-2013 16:44
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-30-A
Misc Info : 680-87545-A-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	1.942	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.184	6.188	(1.000)	4112027	40.0000	
* 6 Acenaphthene-d10	164	7.859	7.856	(1.000)	2489778	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.114	(1.000)	4088181	40.0000	
$ 13 o-Terphenyl	230	9.422	9.431	(1.034)	466829	7.38423	500
* 17 Chrysene-d12	240	11.466	11.464	(1.000)	4070017	40.0000	
* 22 Perylene-d12	264	13.352	13.344	(1.000)	4333402	40.0000	
2 Naphthalene	128	6.202	6.205	(1.003)	208805	1.89824	130
3 2-Methylnaphthalene	142	6.901	6.910	(1.116)	70783	1.01017	69
4 1-Methylnaphthalene	142	6.995	6.999	(1.131)	54209	0.82615	56
5 Acenaphthylene	152	7.724	7.733	(0.983)	11142	0.10150	6.9
7 Acenaphthene	154	7.882	7.886	(1.003)	11086	0.16564	11
8 Fluorene	166	8.323	8.326	(1.059)	14647	0.18731	13
10 Phenanthrene	178	9.134	9.137	(1.002)	284479	2.45135	170
11 Anthracene	178	9.175	9.184	(1.006)	52041	0.44820	30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.310	9.313	(1.021)	40470	0.38989	27
14 Fluoranthene	202	10.115	10.124	(1.110)	331938	2.74087	190
15 Pyrene	202	10.303	10.312	(0.899)	259328	2.05411	140
16 Benzo(a)anthracene	228	11.443	11.446	(0.998)	195517	1.75465	120
18 Chrysene	228	11.484	11.499	(1.002)	228131	1.98310	140
19 Benzo(b)fluoranthene	252	12.777	12.792	(0.957)	261971	2.34865	160(H)
20 Benzo(k)fluoranthene	252	12.806	12.839	(0.959)	82292	0.70463	48(H)
21 Benzo(a)pyrene	252	13.235	13.262	(0.991)	146899	1.33086	91(H)
23 Indeno(1,2,3-cd)pyrene	276	14.956	14.995	(1.120)	109962	0.93351	64(MH)
24 Dibenzo(a,h)anthracene	278	14.986	15.030	(1.122)	41183	0.37857	26(H)
25 Benzo(g,h,i)perylene	276	15.415	15.465	(1.154)	115771	1.03082	70(H)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22014.D

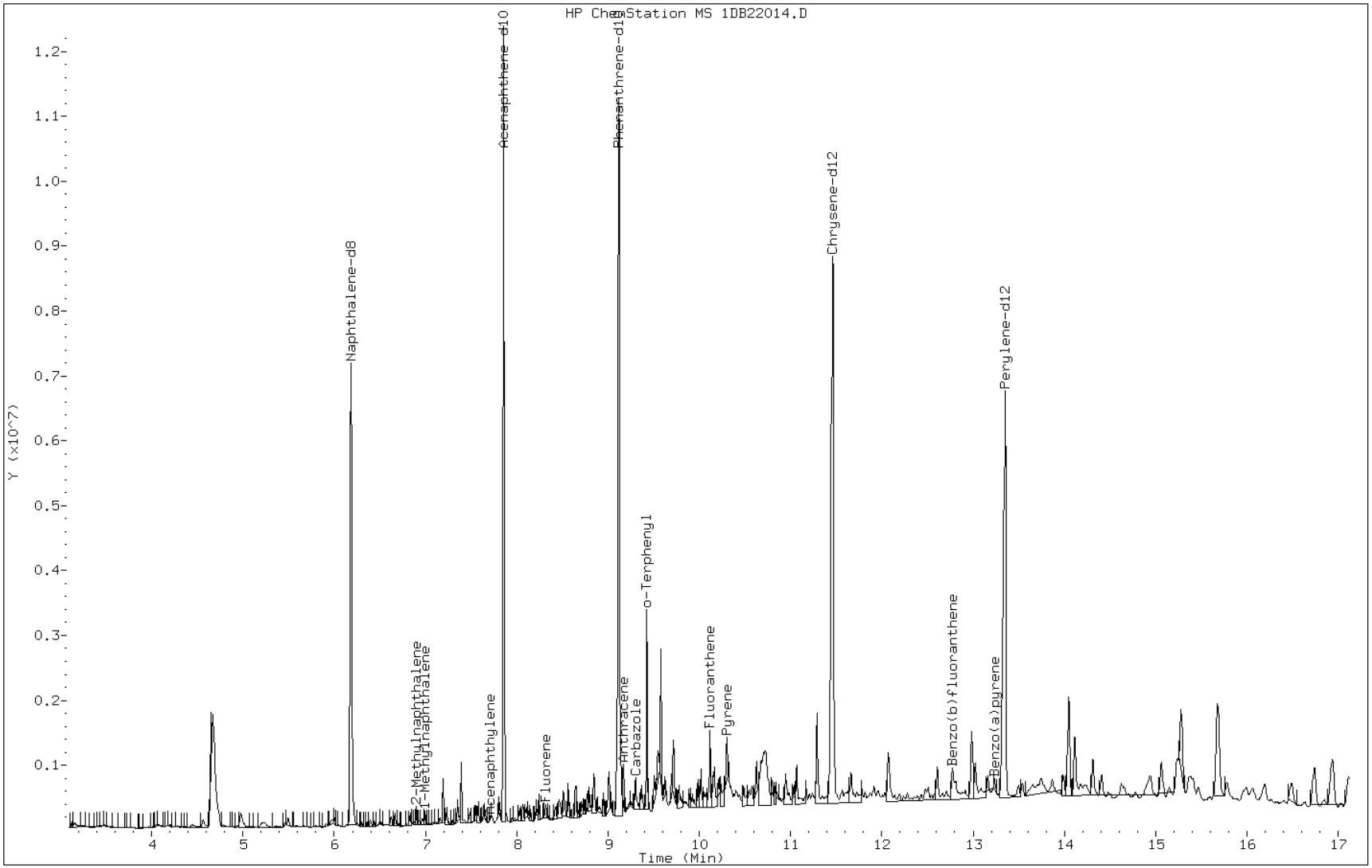
Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A

Operator: SCC



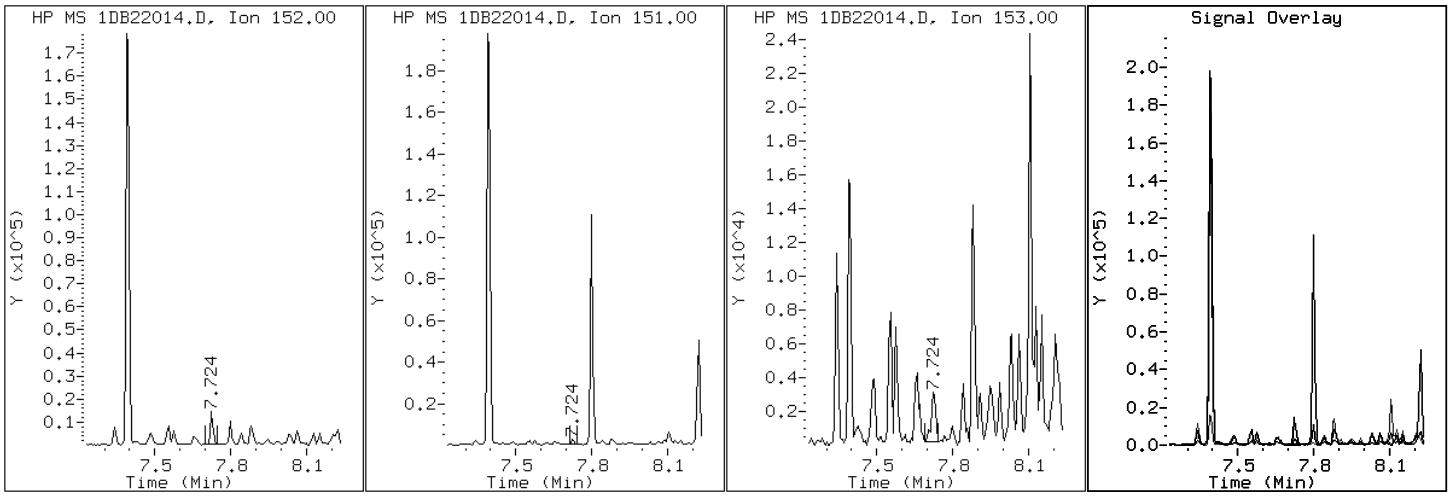
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

5 Acenaphthylene



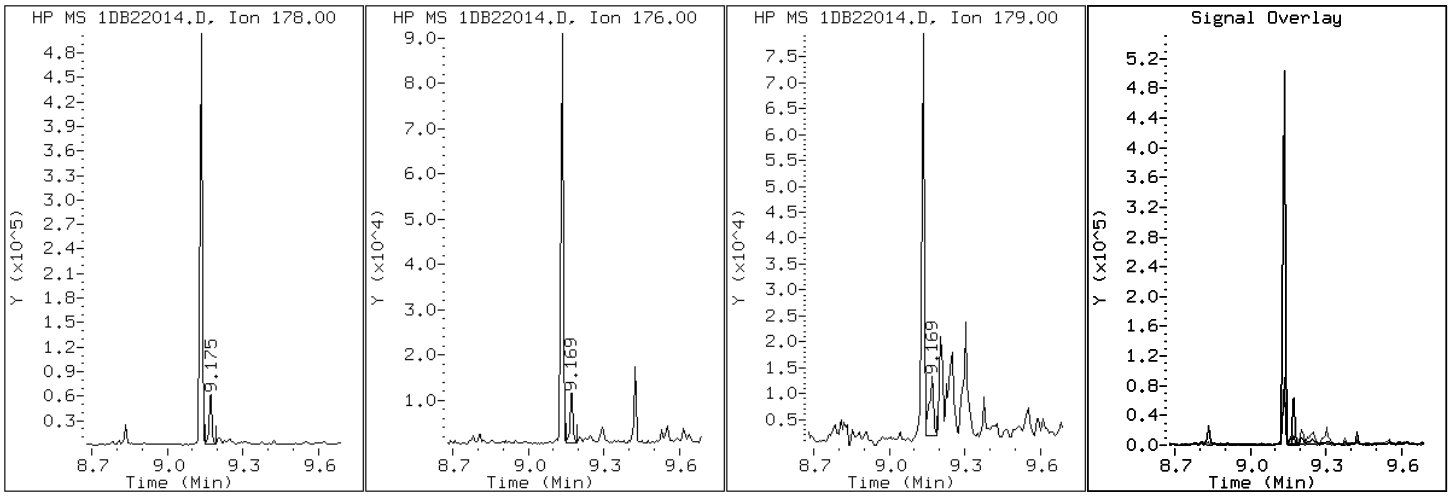
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

11 Anthracene



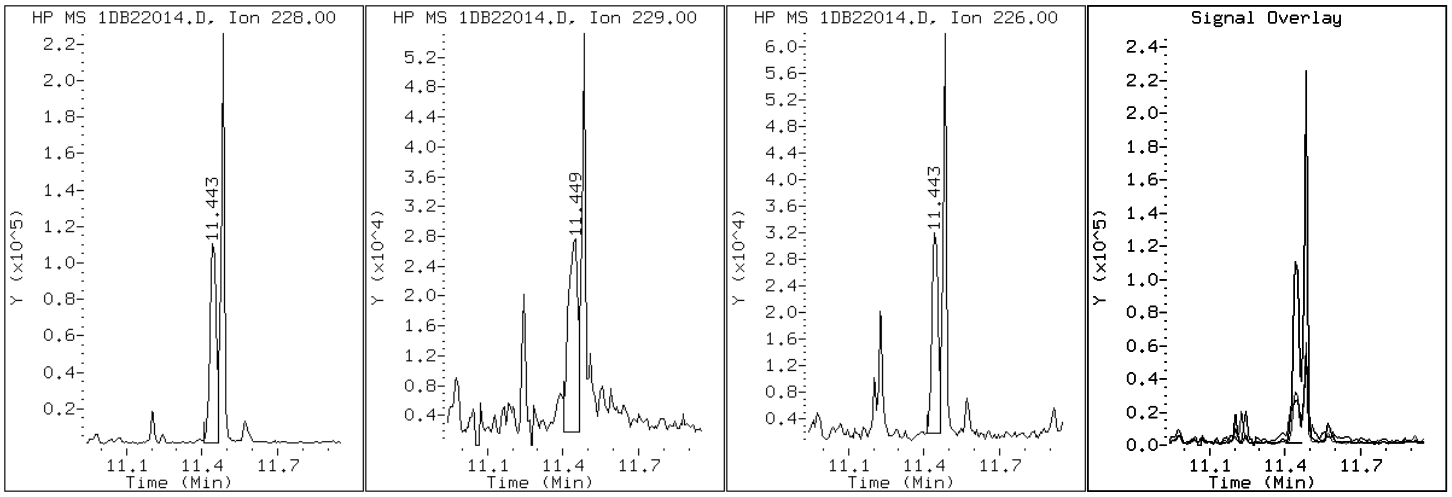
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

16 Benzo(a)anthracene



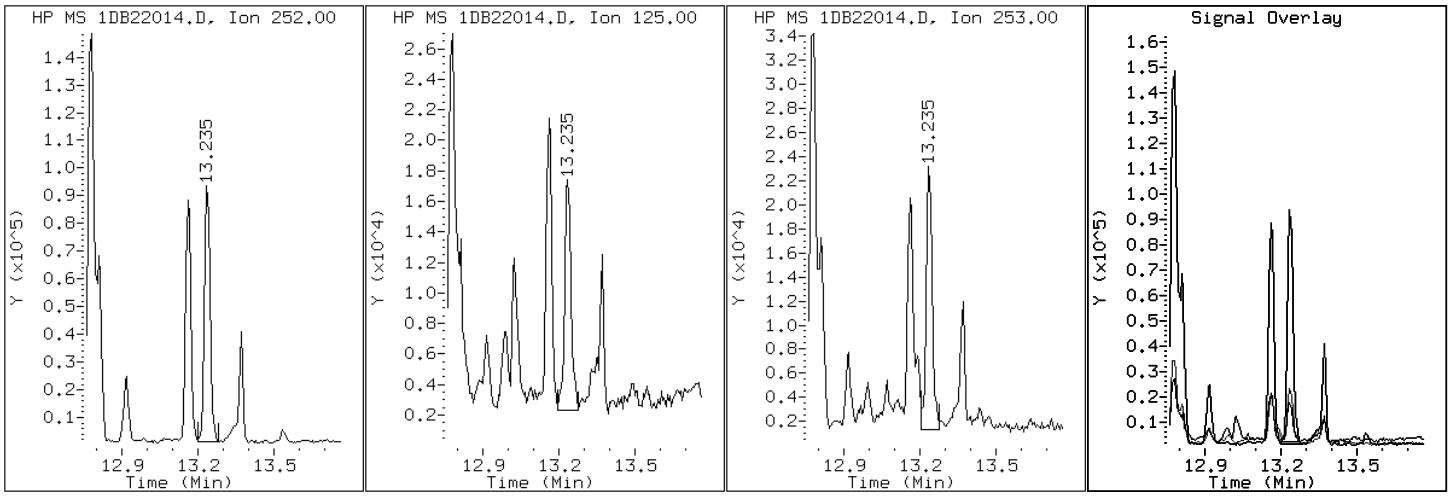
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

21 Benzo(a)pyrene



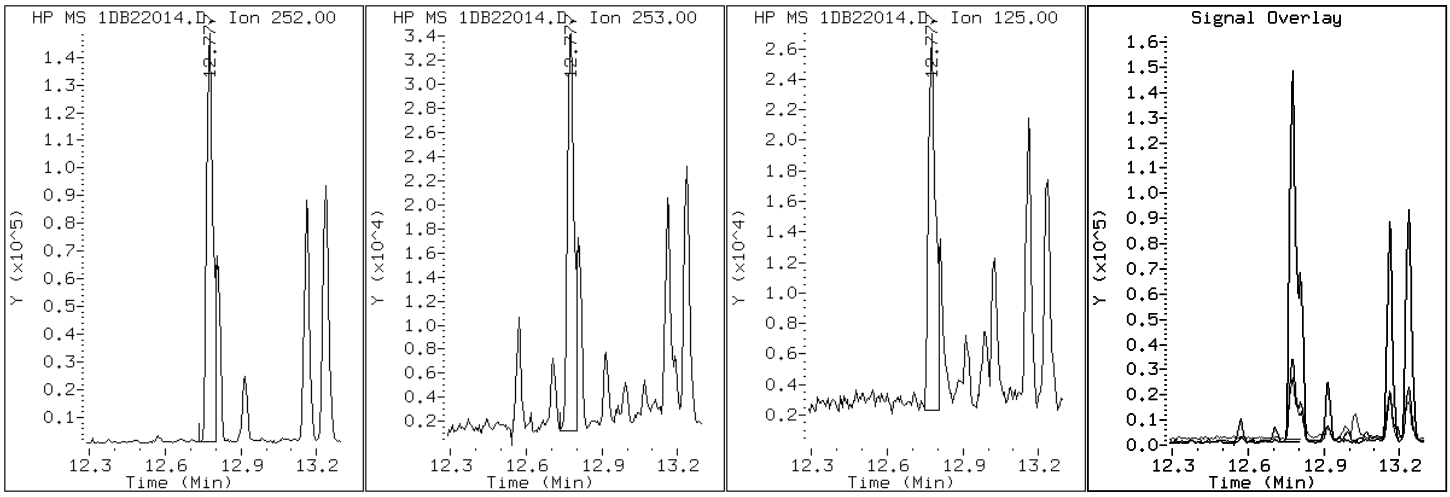
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

19 Benzo(b)fluoranthene



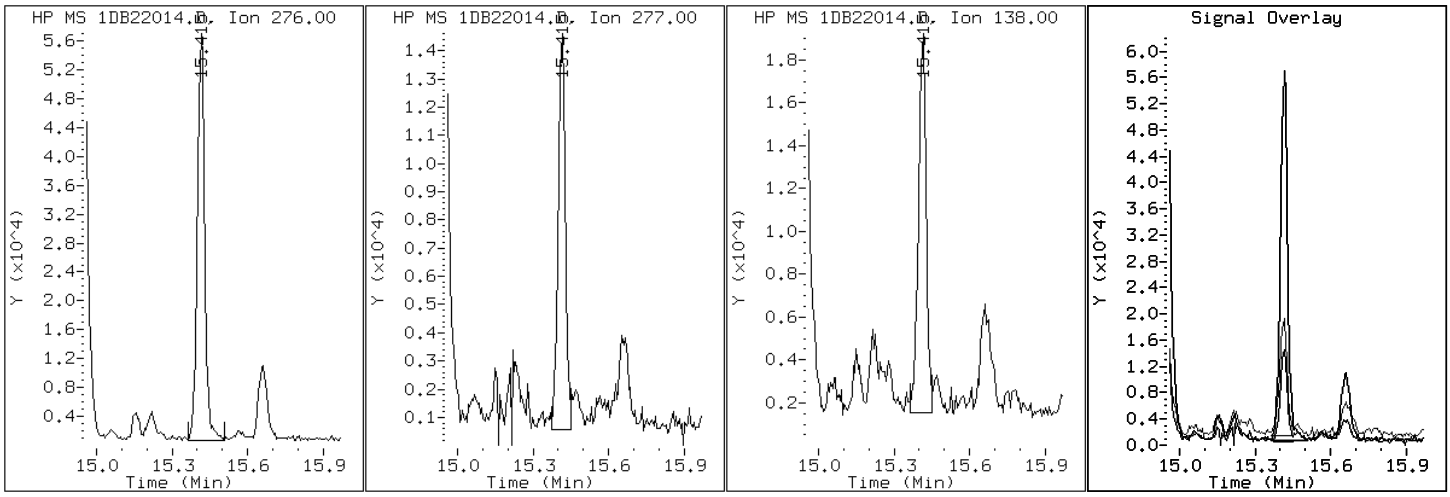
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

25 Benzo(g,h,i)perylene



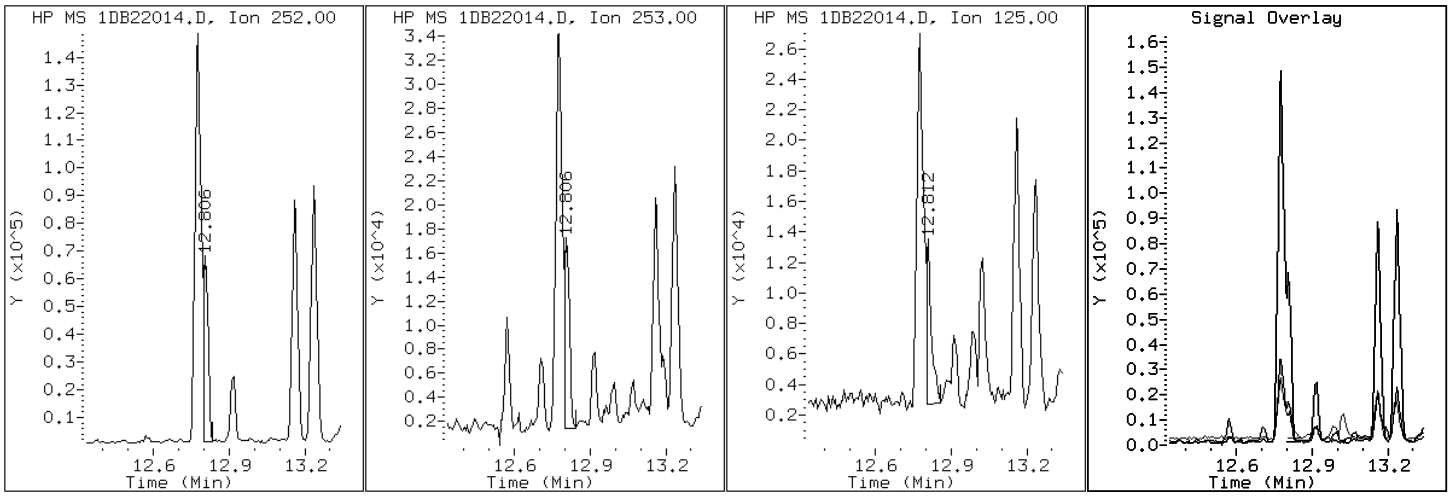
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

20 Benzo(k)fluoranthene



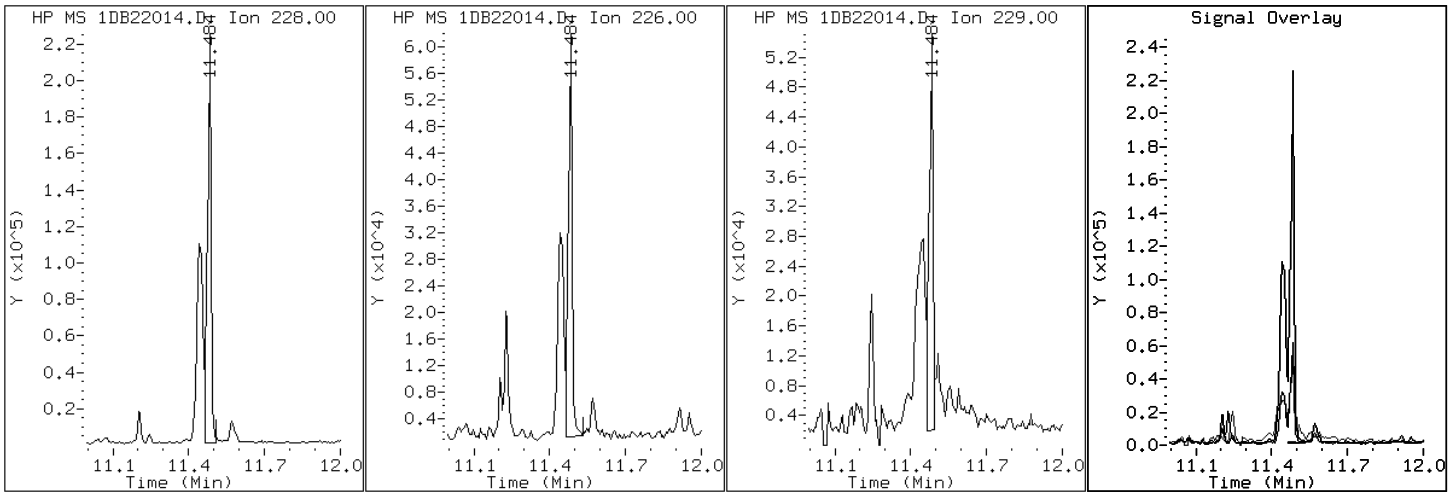
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

18 Chrysene



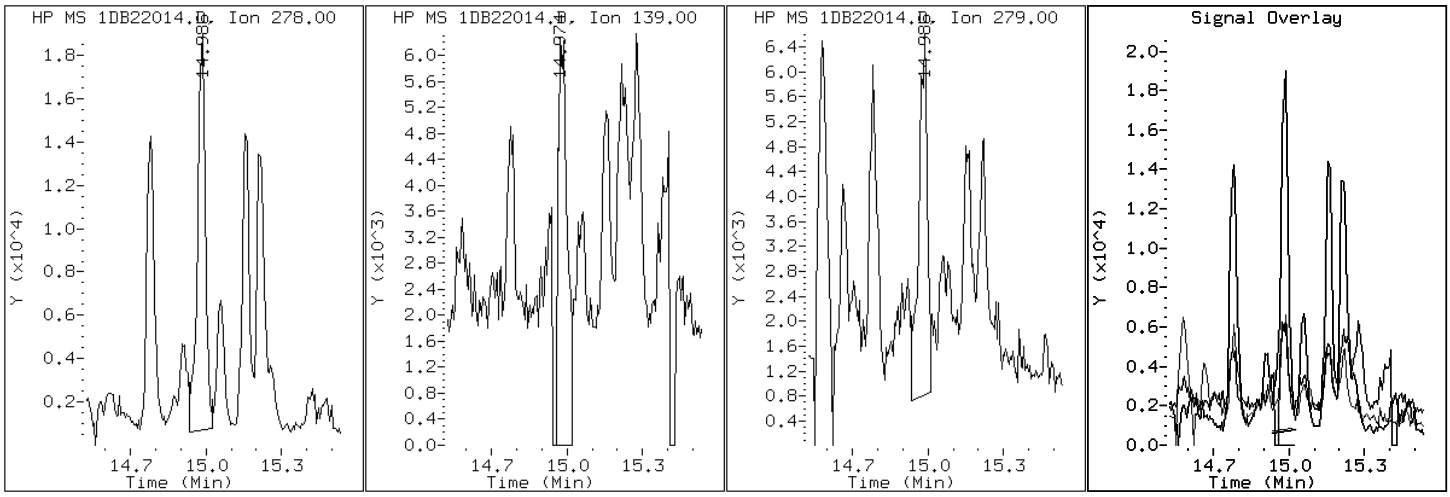
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

24 Dibenzo(a,h)anthracene



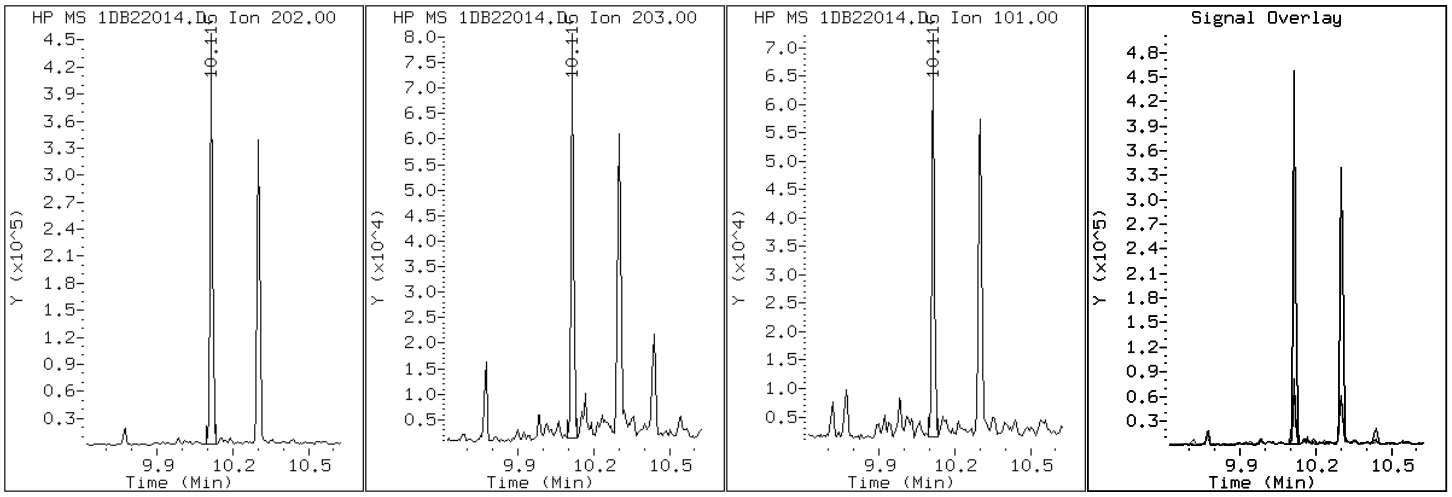
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

14 Fluoranthene



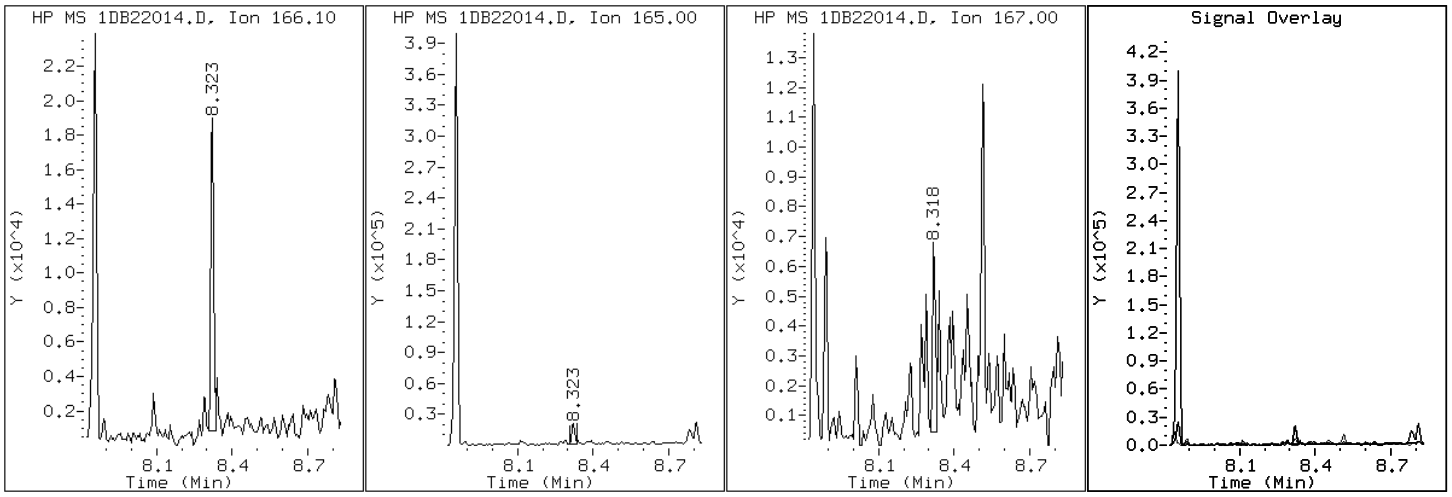
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

8 Fluorene



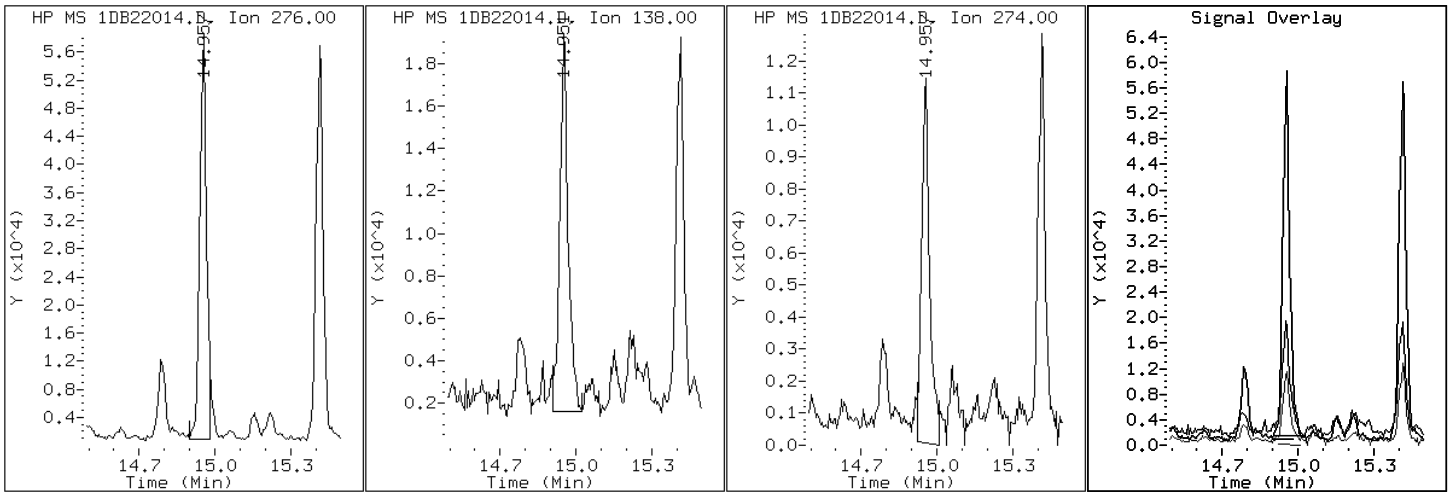
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



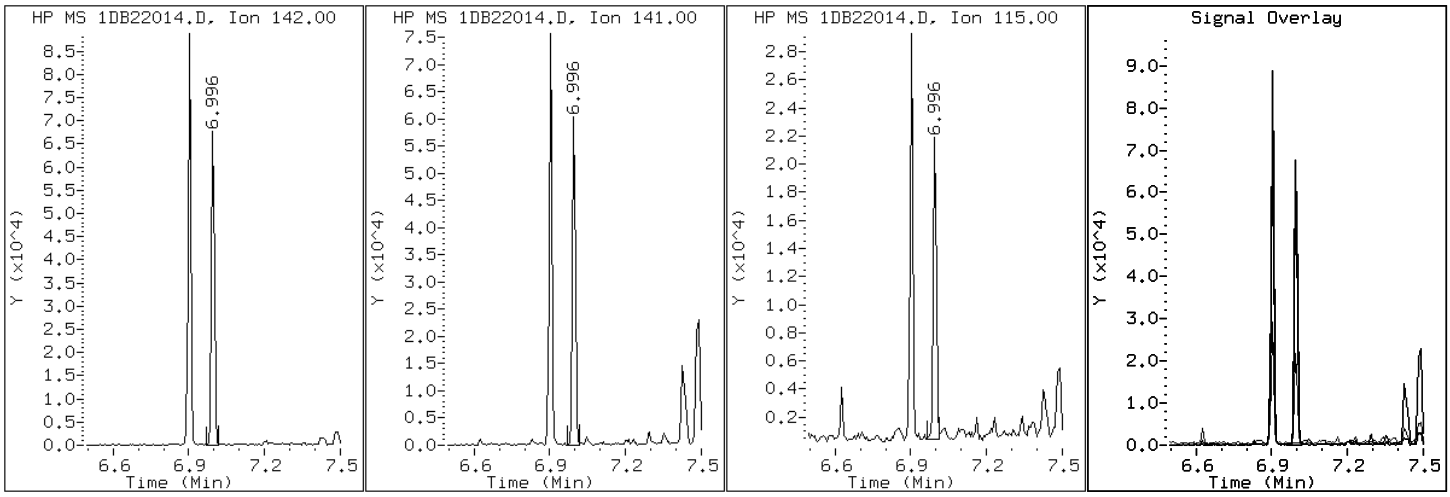
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

4 1-Methylnaphthalene



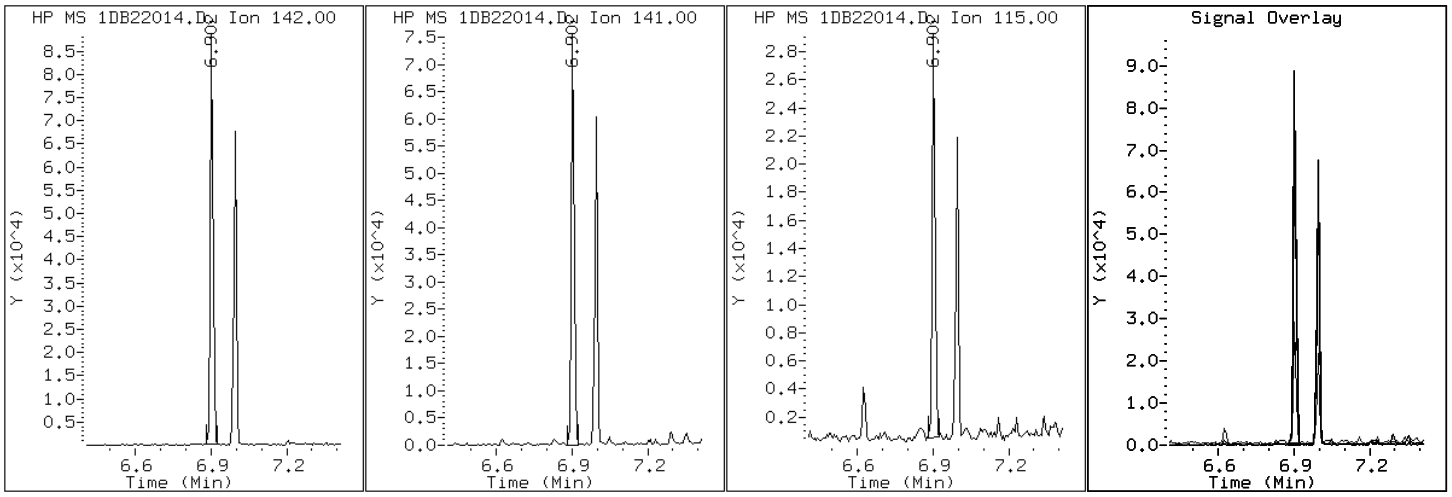
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

3 2-Methylnaphthalene



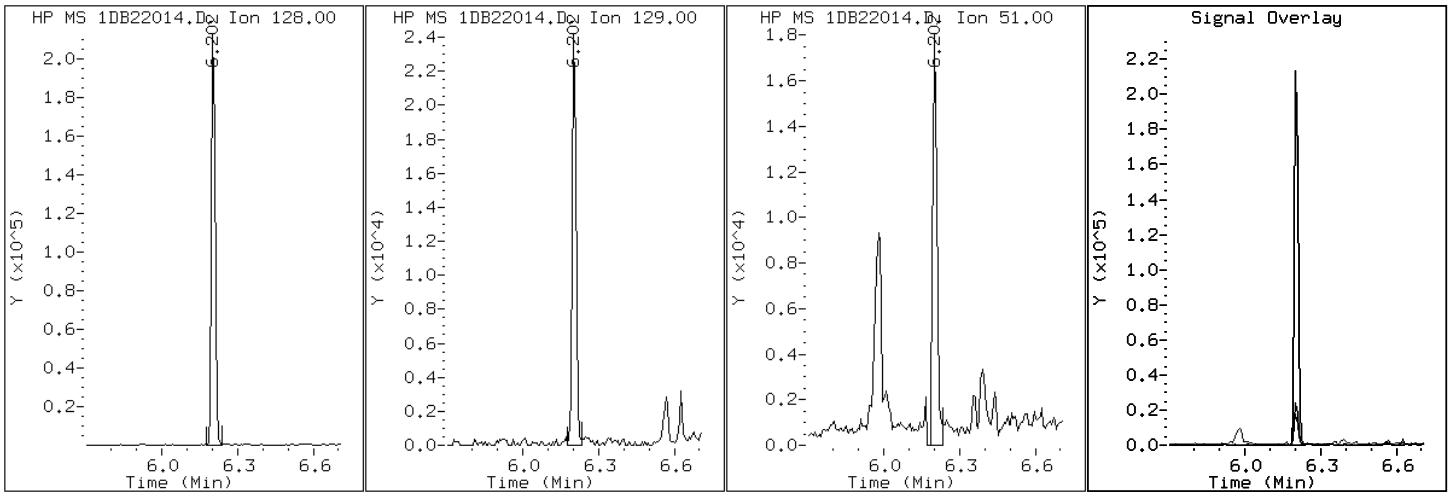
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

2 Naphthalene



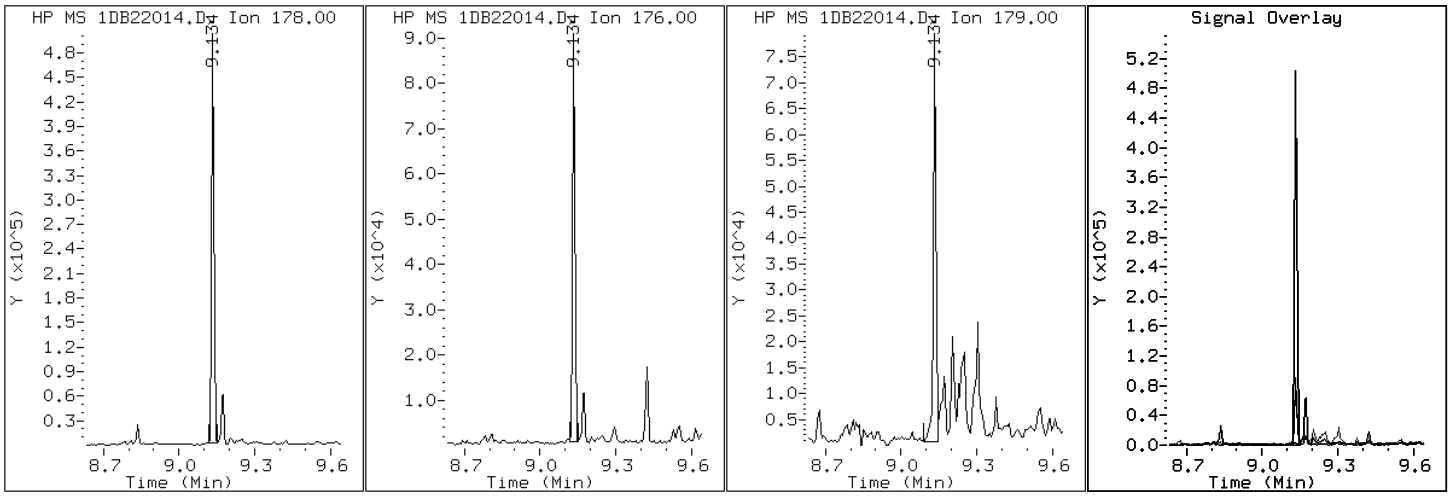
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

10 Phenanthrene



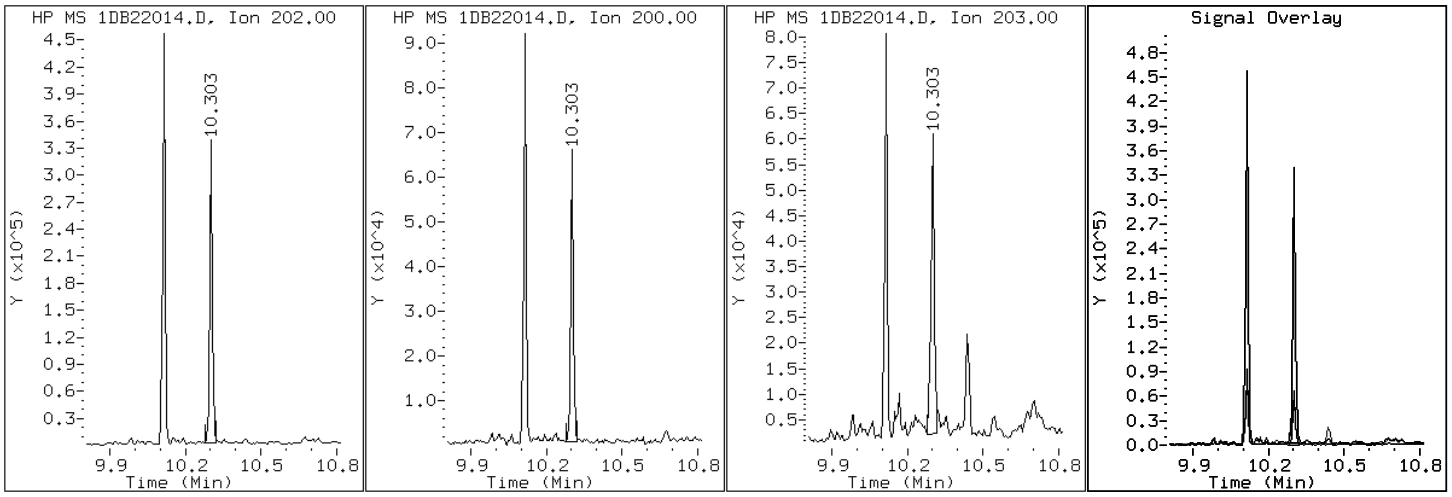
Data File: 1DB22014.D

Date: 22-FEB-2013 16:44

Client ID: FM0161T-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-30-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB22014.D
Inj. Date and Time: 22-FEB-2013 16:44
Instrument ID: BSMSD.i
Client ID: FM0161T-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

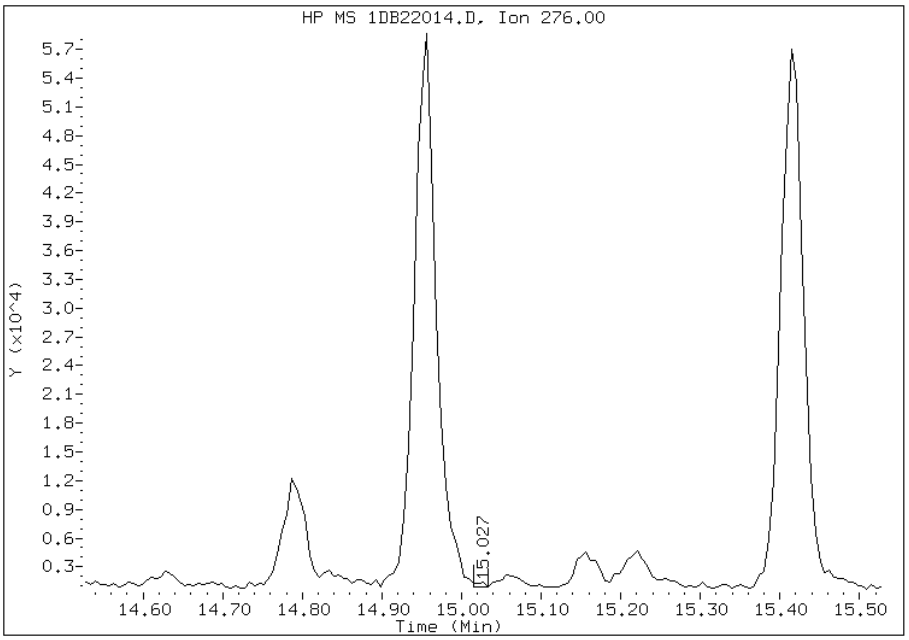
Processing Integration Results

RT: 15.03

Response: 404

Amount: 0

Conc: 0



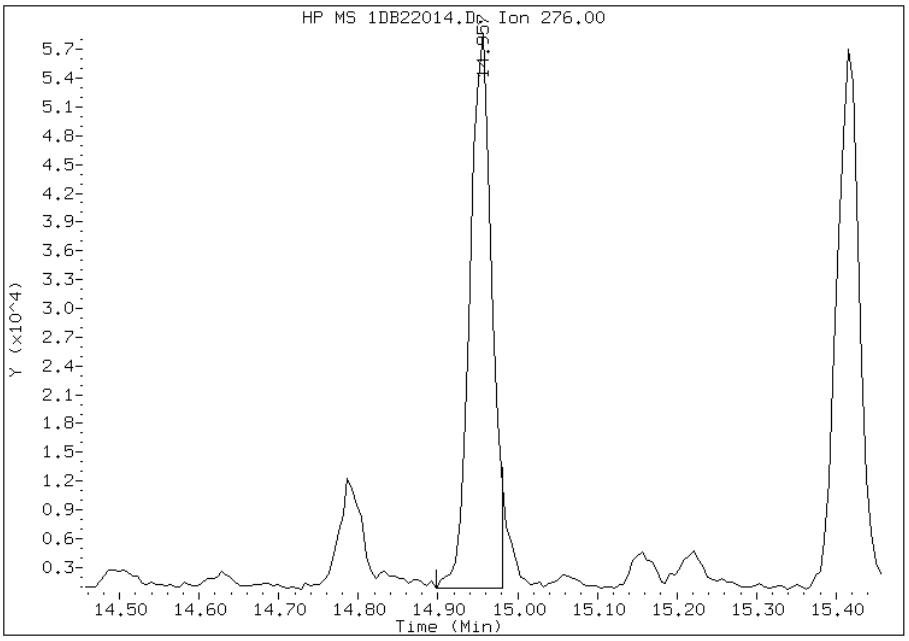
Manual Integration Results

RT: 14.96

Response: 109962

Amount: 1

Conc: 64



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 15:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161U-CS | Lab Sample ID: 680-87545-31

Matrix: Solid | Lab File ID: 1DB22015.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 12:52

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 15.12(g) | Date Analyzed: 02/22/2013 17:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 4.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	7.6	J	41	5.2
120-12-7	Anthracene	10		8.7	4.3
56-55-3	Benzo[a]anthracene	43		8.3	4.0
50-32-8	Benzo[a]pyrene	38		11	5.4
205-99-2	Benzo[b]fluoranthene	71		13	6.3
191-24-2	Benzo[g,h,i]perylene	38		21	4.5
207-08-9	Benzo[k]fluoranthene	23		8.3	3.7
218-01-9	Chrysene	62		9.3	4.6
53-70-3	Dibenz(a,h)anthracene	11	J	21	4.2
206-44-0	Fluoranthene	69		21	4.1
86-73-7	Fluorene	21	U	21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	30		21	7.3
90-12-0	1-Methylnaphthalene	31	J	41	4.5
91-57-6	2-Methylnaphthalene	40	J	41	7.3
91-20-3	Naphthalene	44		41	4.5
85-01-8	Phenanthrene	58		8.3	4.0
129-00-0	Pyrene	54		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22015.D
Lab Smp Id: 680-87545-A-31-A Client Smp ID: FM0161U-CS
Inj Date : 22-FEB-2013 17:19
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-31-A
Misc Info : 680-87545-A-31-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	3.972	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.189	6.188	(1.000)	3856105	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.856	(1.000)	2368393	40.0000	
* 9 Phenanthrene-d10	188	9.121	9.114	(1.000)	3838409	40.0000	
$ 13 o-Terphenyl	230	9.427	9.431	(1.033)	368356	6.20575	430
* 17 Chrysene-d12	240	11.466	11.464	(1.000)	3891881	40.0000	
* 22 Perylene-d12	264	13.358	13.344	(1.000)	4070211	40.0000	
2 Naphthalene	128	6.207	6.205	(1.003)	66459	0.64427	44
3 2-Methylnaphthalene	142	6.906	6.910	(1.116)	38007	0.57841	40
4 1-Methylnaphthalene	142	7.000	6.999	(1.131)	27857	0.45272	31
5 Acenaphthylene	152	7.729	7.733	(0.984)	11487	0.11001	7.6
8 Fluorene	166	8.328	8.326	(1.060)	4301	0.05782	4.0
10 Phenanthrene	178	9.139	9.137	(1.002)	92470	0.84866	58
11 Anthracene	178	9.174	9.184	(1.006)	16190	0.14851	10
12 Carbazole	167	9.309	9.313	(1.021)	12198	0.12516	8.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.120	10.124	(1.109)	114631	1.00812	69
15 Pyrene	202	10.308	10.312	(0.899)	95457	0.79071	54
16 Benzo(a)anthracene	228	11.448	11.446	(0.998)	66032	0.61972	43
18 Chrysene	228	11.489	11.499	(1.002)	98786	0.89803	62
19 Benzo(b)fluoranthene	252	12.776	12.792	(0.956)	108671	1.03727	71(H)
20 Benzo(k)fluoranthene	252	12.817	12.839	(0.960)	36333	0.33122	23(H)
21 Benzo(a)pyrene	252	13.240	13.262	(0.991)	57161	0.55135	38(H)
23 Indeno(1,2,3-cd)pyrene	276	14.956	14.995	(1.120)	48414	0.43758	30(MH)
24 Dibenzo(a,h)anthracene	278	14.991	15.030	(1.122)	16912	0.16551	11(H)
25 Benzo(g,h,i)perylene	276	15.420	15.465	(1.154)	58278	0.55246	38(H)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22015.D

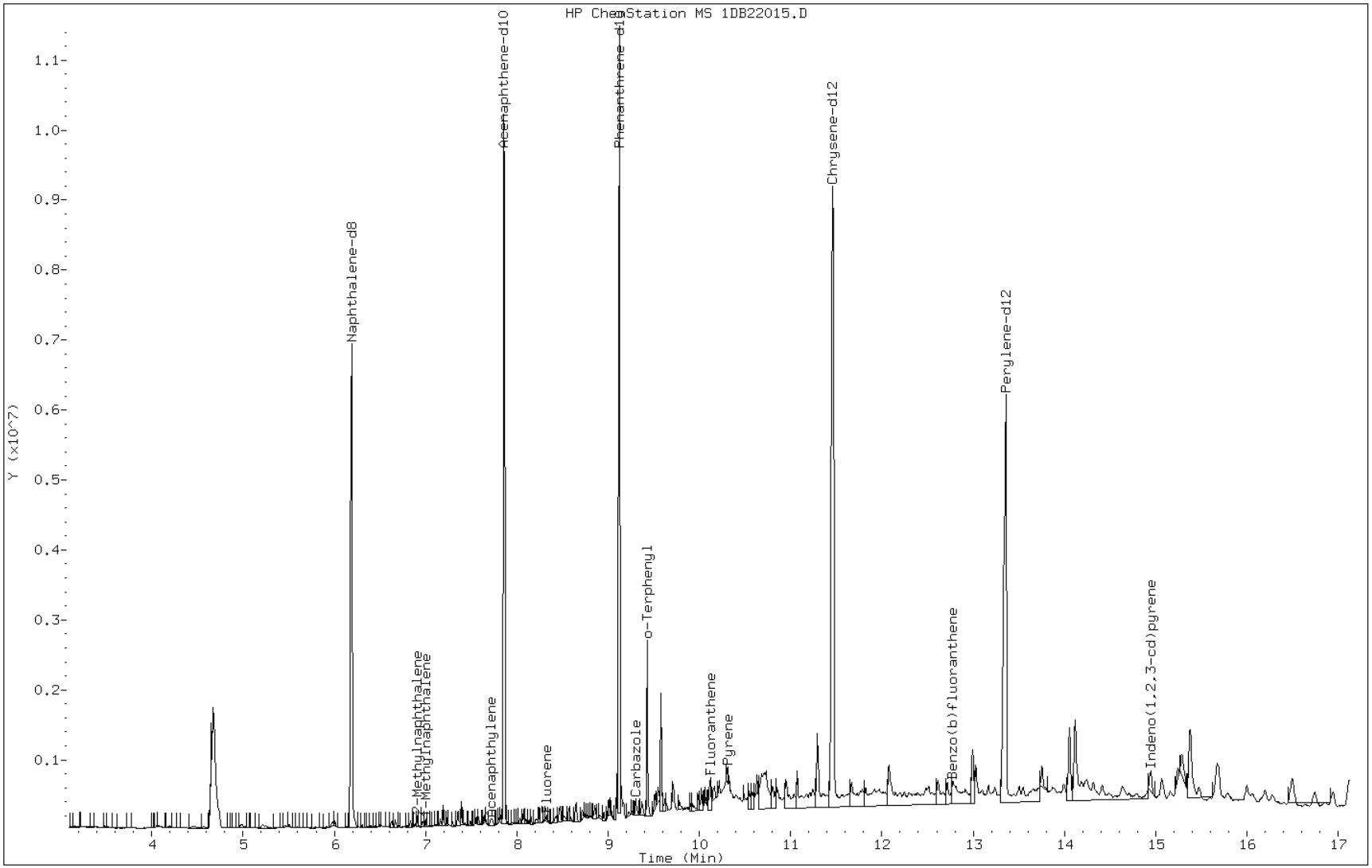
Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A

Operator: SCC



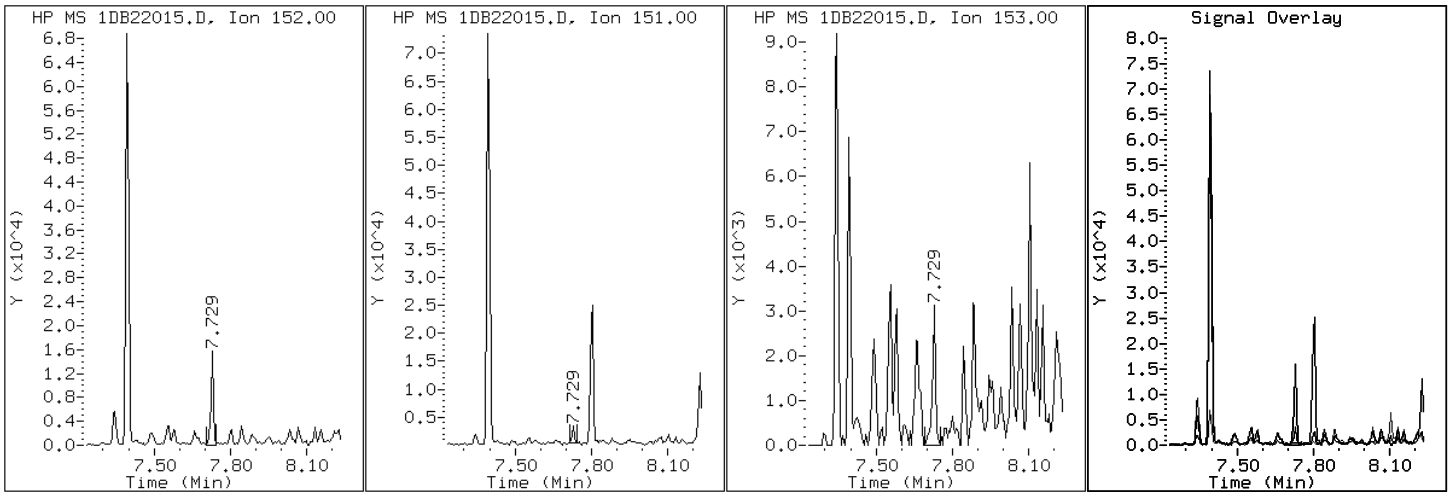
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

5 Acenaphthylene



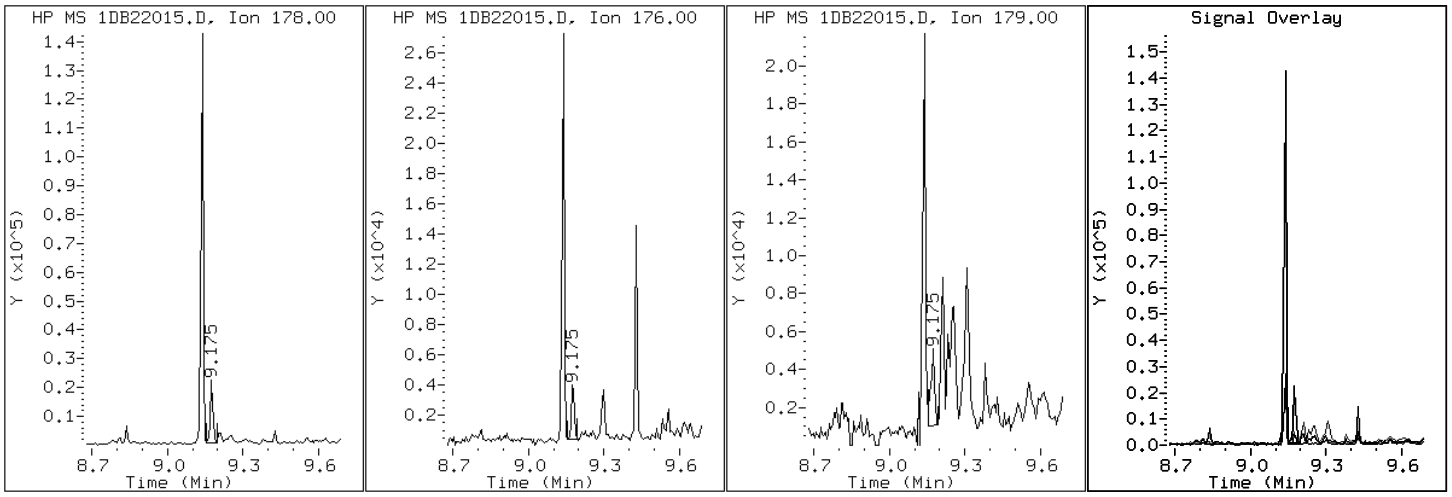
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

11 Anthracene



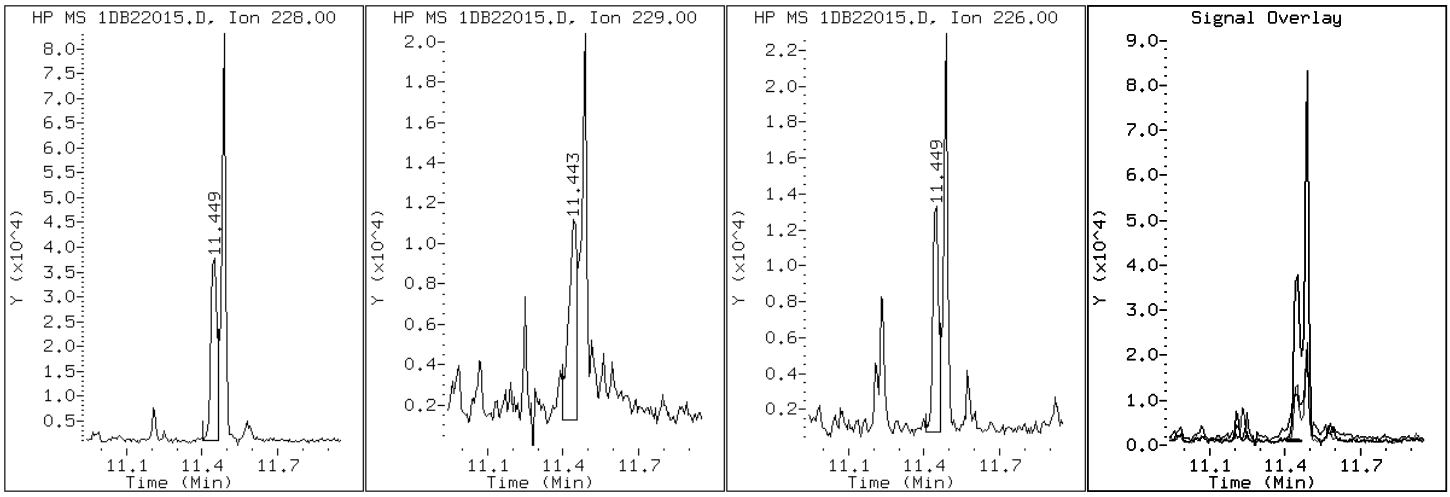
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

16 Benzo(a)anthracene



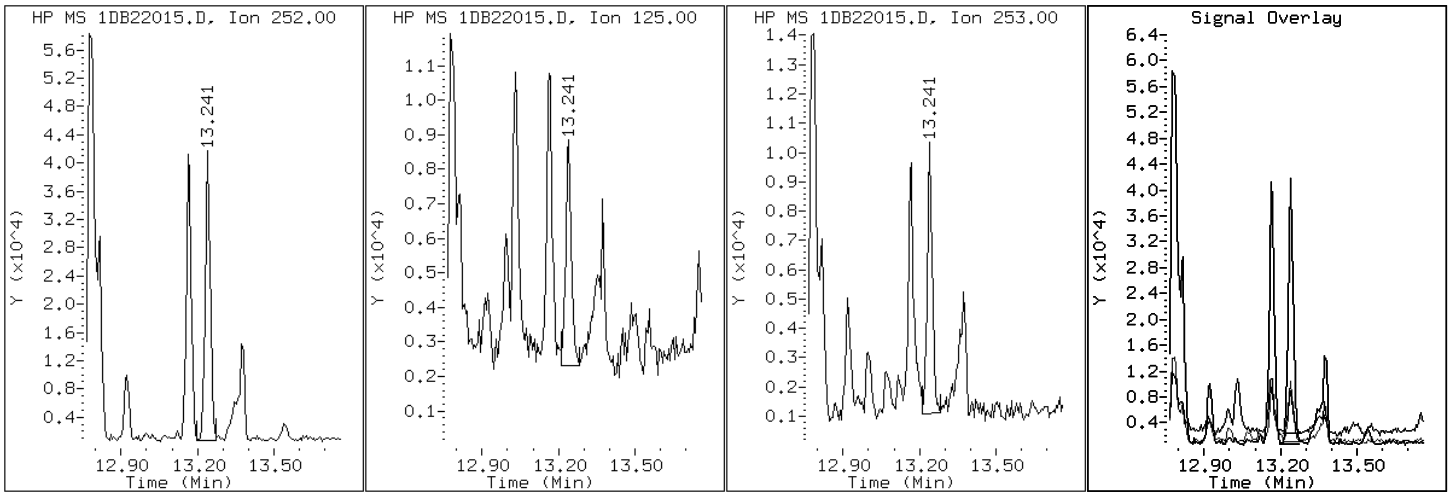
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

21 Benzo(a)pyrene



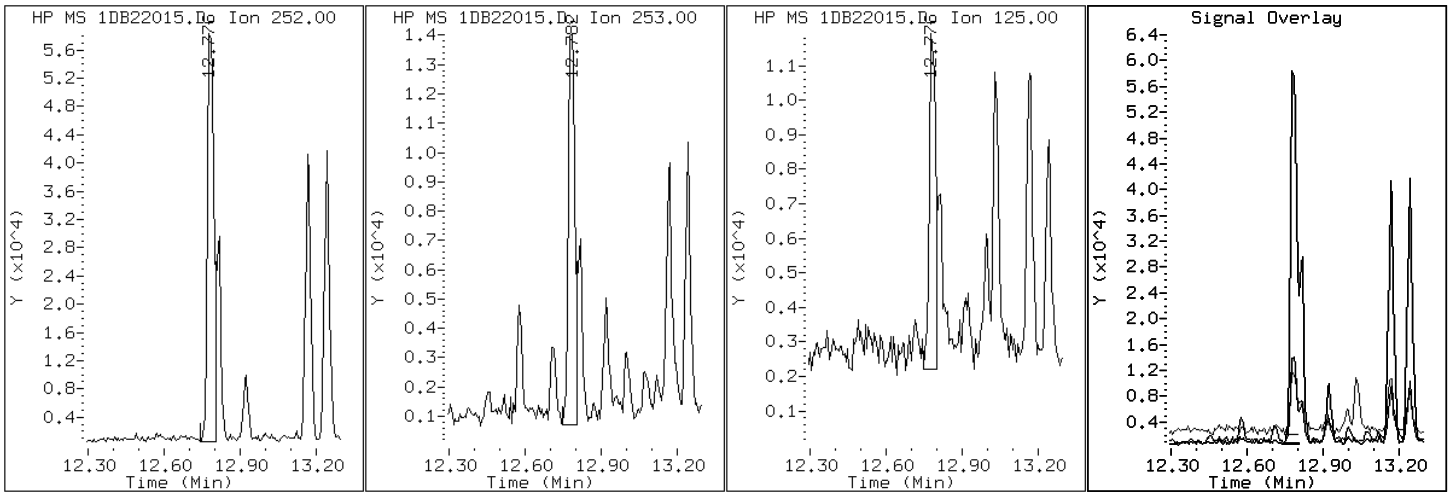
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

19 Benzo(b)fluoranthene



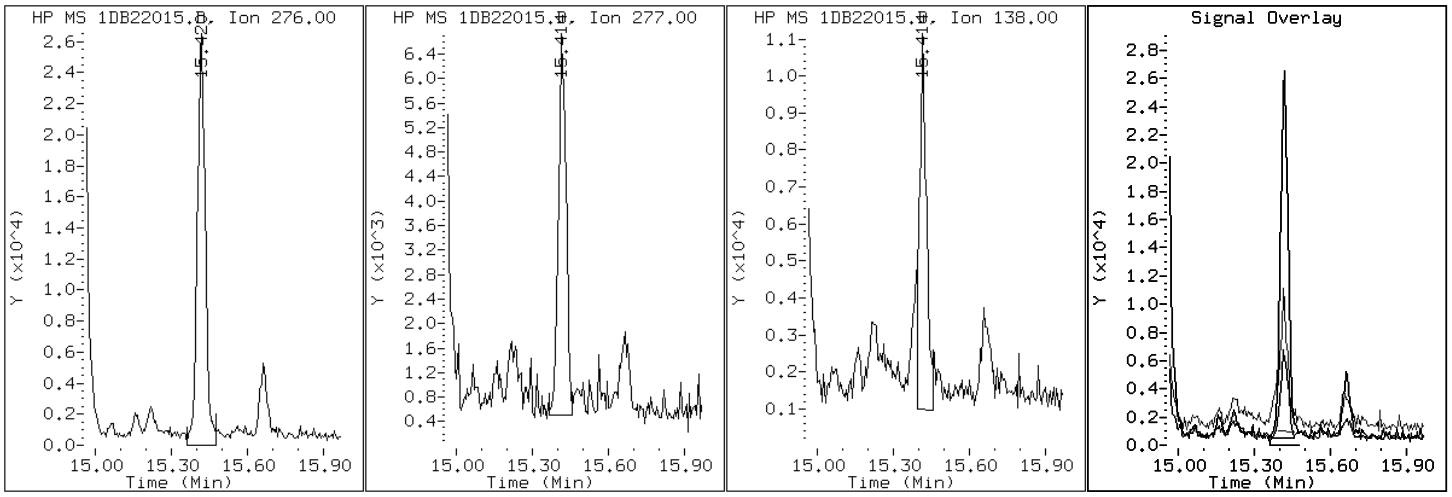
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

25 Benzo(g,h,i)perylene



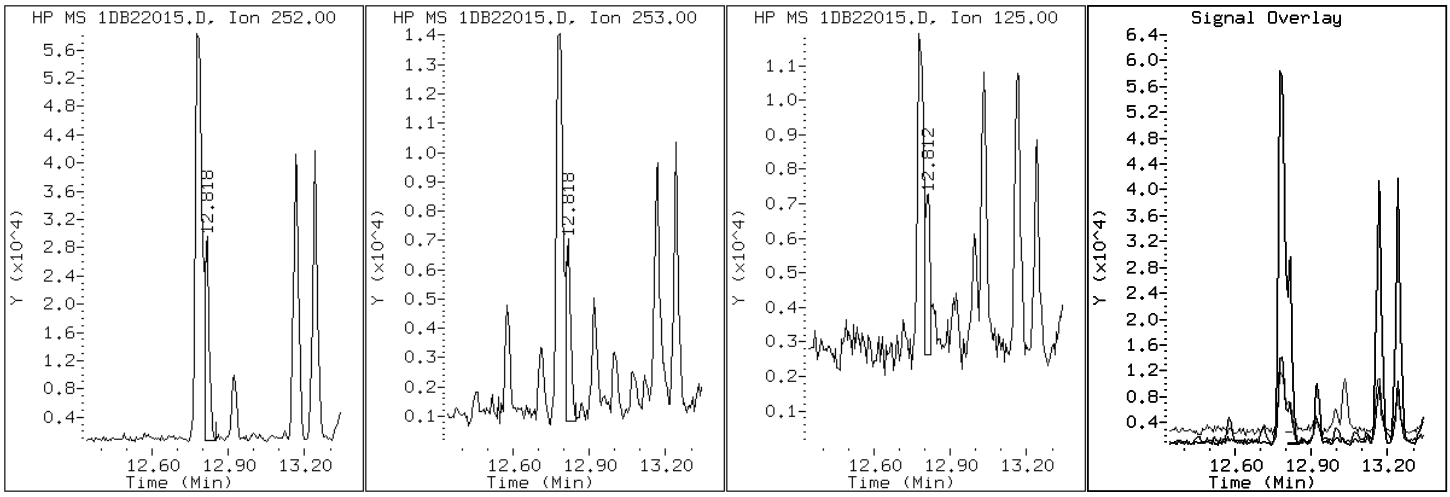
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

20 Benzo(k)fluoranthene



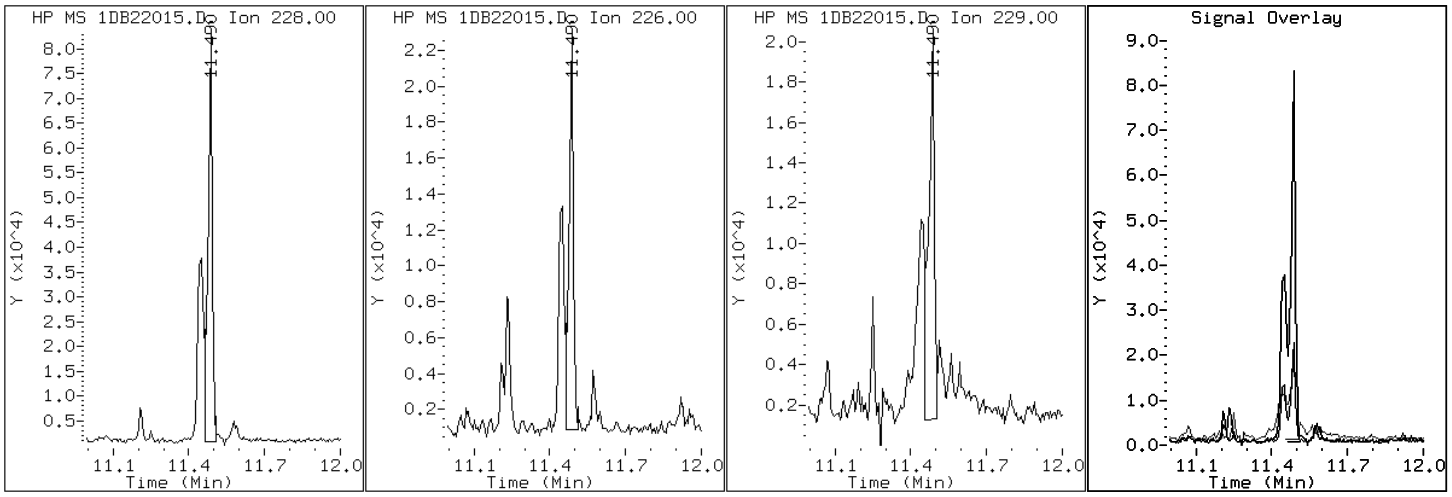
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

18 Chrysene



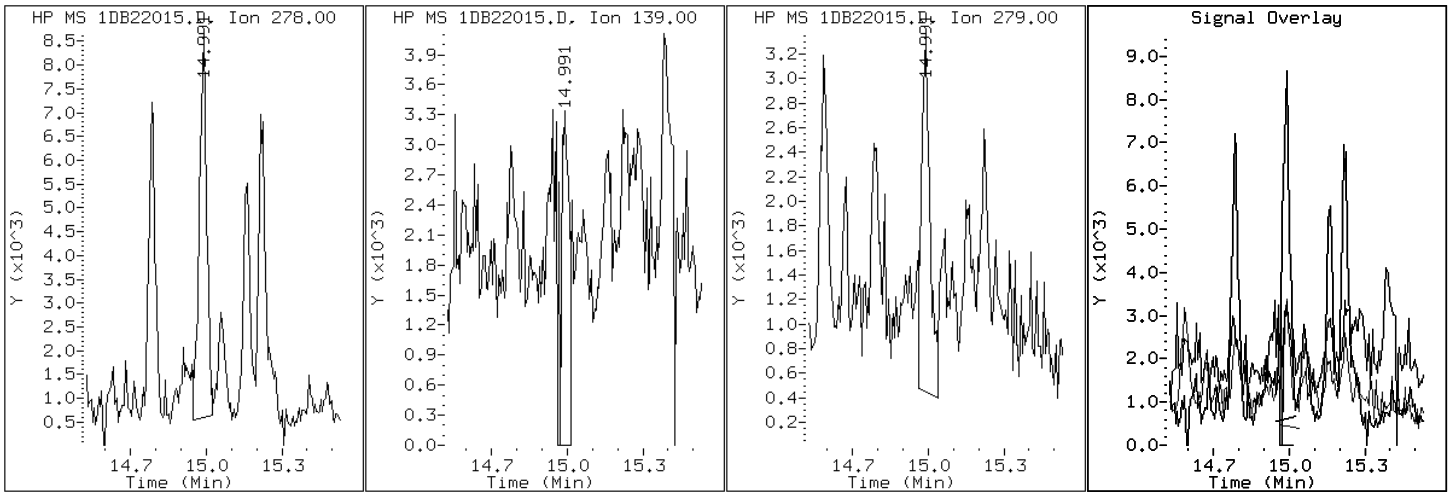
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

24 Dibenzo(a,h)anthracene



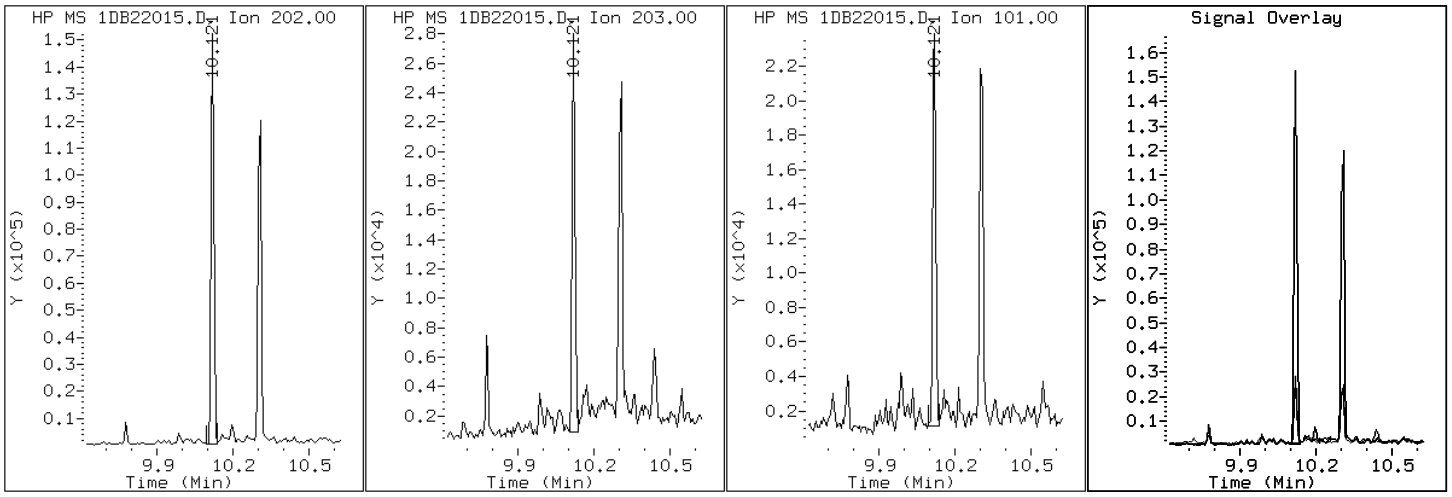
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

14 Fluoranthene



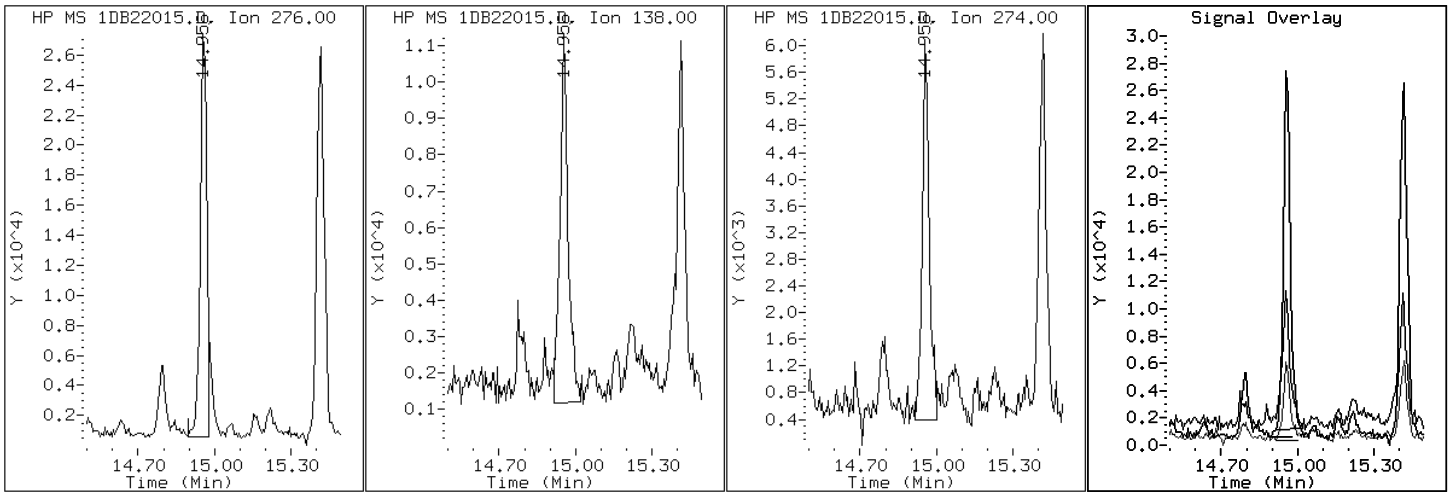
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



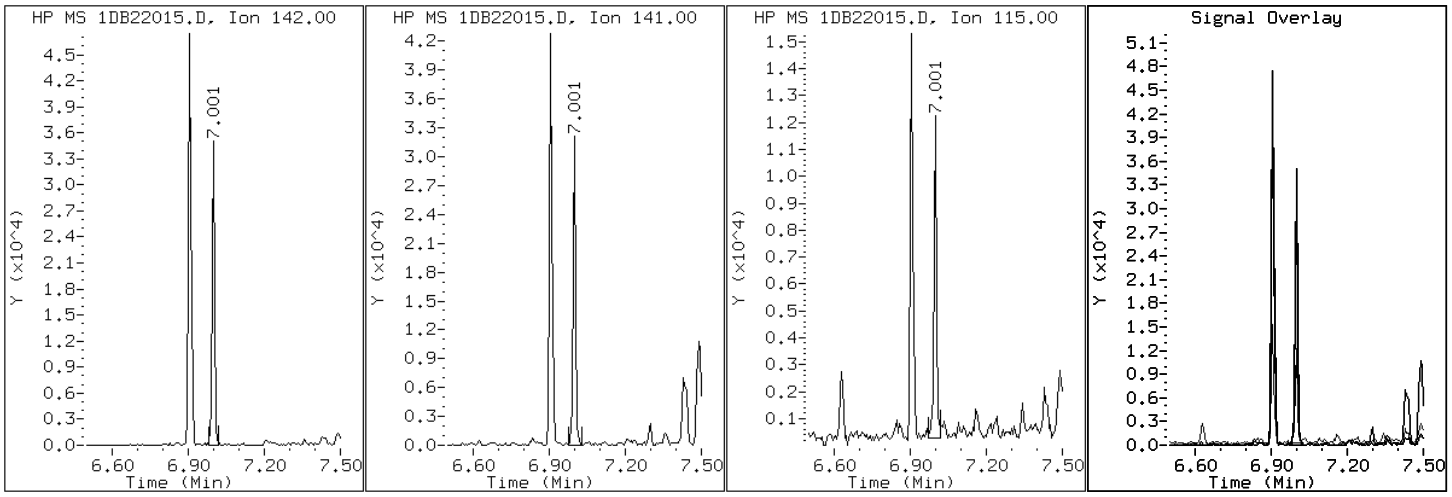
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

4 1-Methylnaphthalene



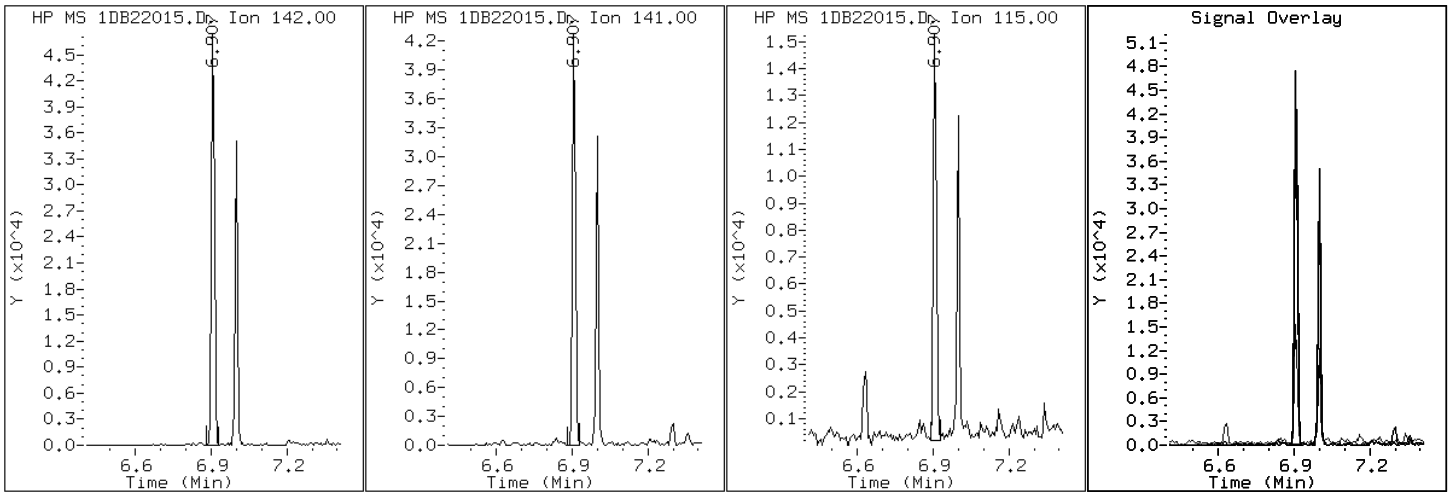
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

3 2-Methylnaphthalene



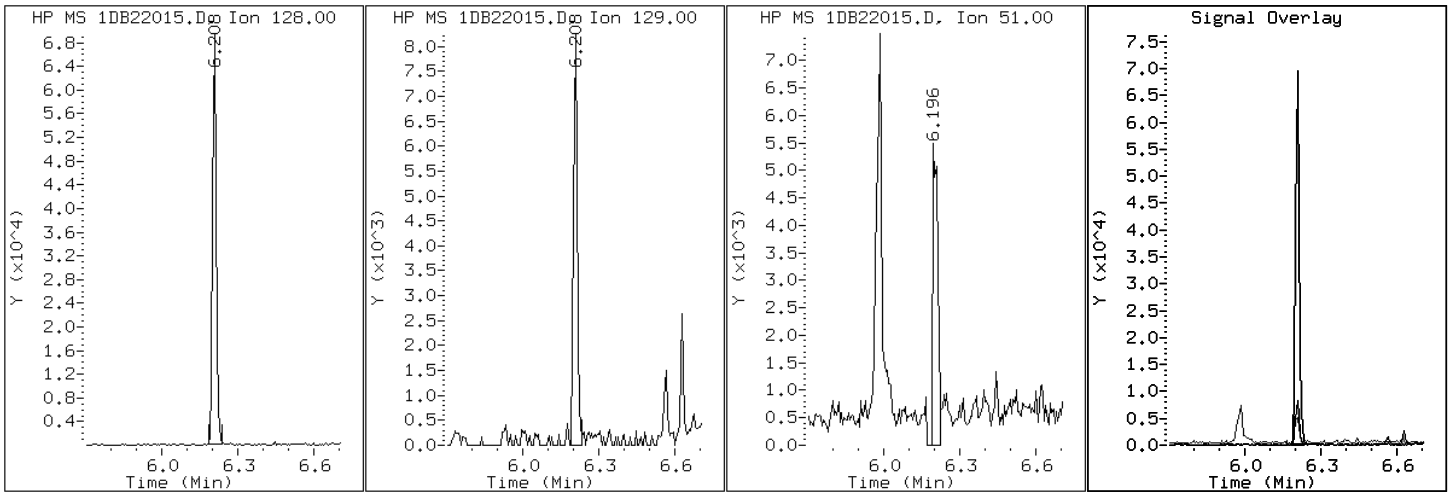
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

2 Naphthalene



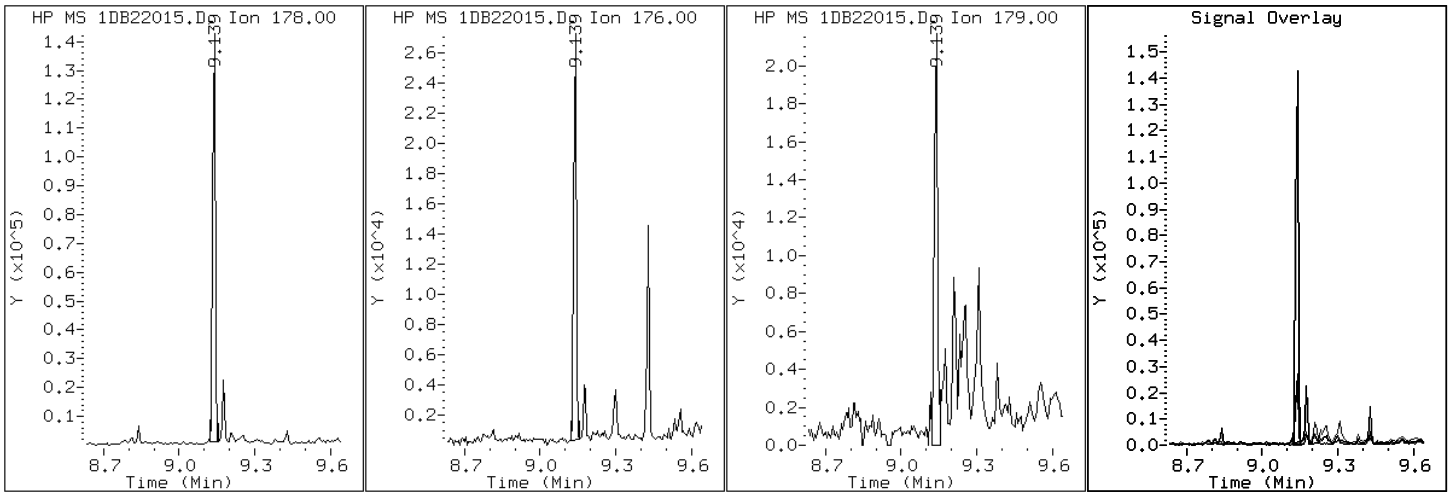
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

10 Phenanthrene



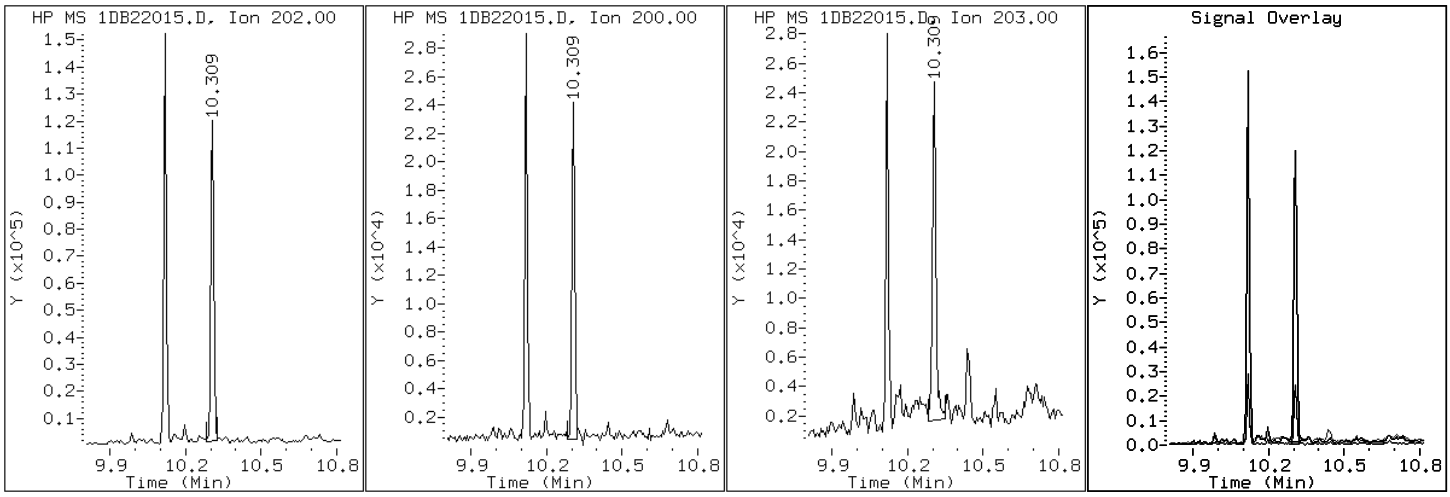
Data File: 1DB22015.D

Date: 22-FEB-2013 17:19

Client ID: FM0161U-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-31-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB22015.D
Inj. Date and Time: 22-FEB-2013 17:19
Instrument ID: BSMSD.i
Client ID: FM0161U-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

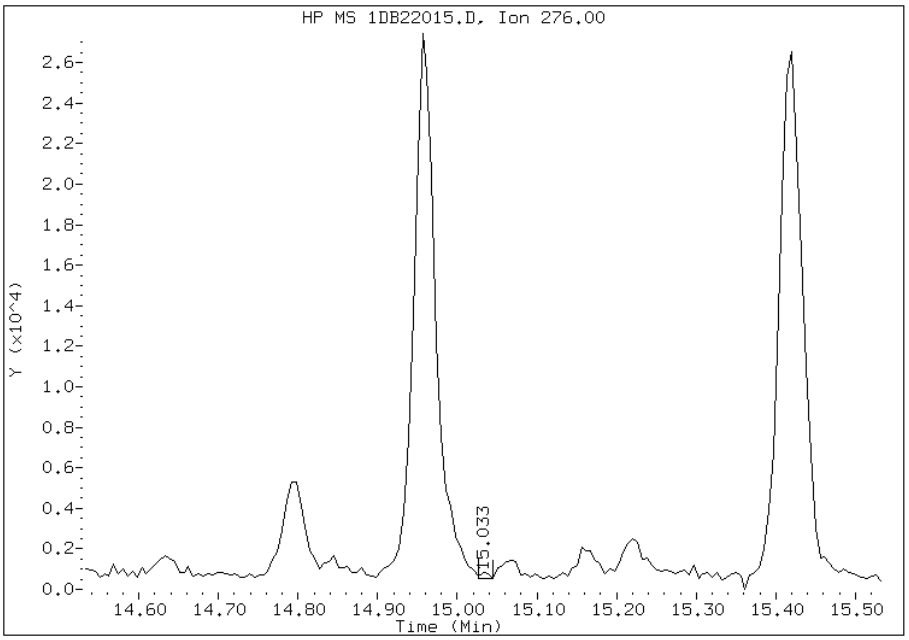
Processing Integration Results

RT: 15.03

Response: 235

Amount: 0

Conc: 0



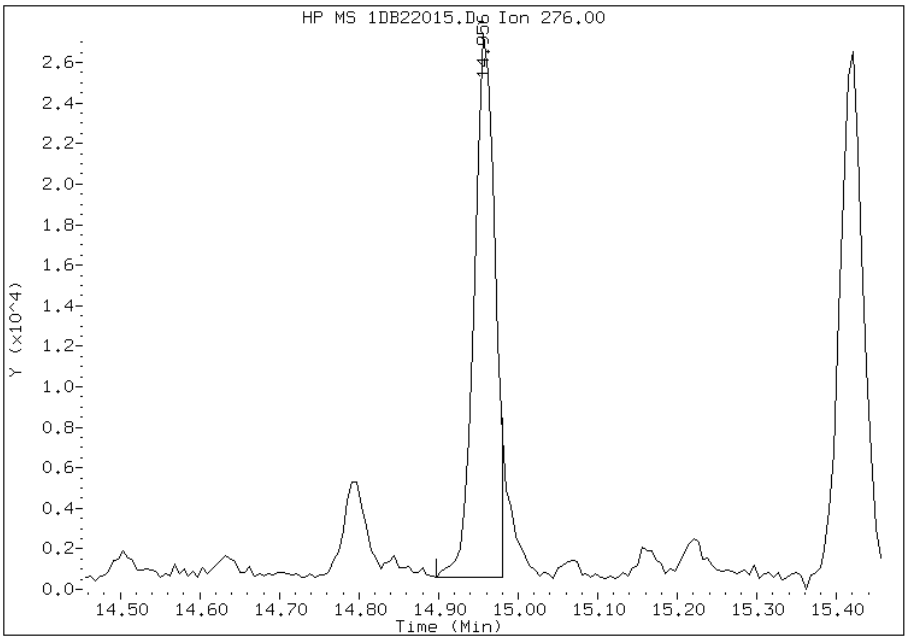
Manual Integration Results

RT: 14.96

Response: 48414

Amount: 0

Conc: 30



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 15:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161U-CSD | Lab Sample ID: 680-87545-32

Matrix: Solid | Lab File ID: 1DB22016.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 12:54

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 15.24(g) | Date Analyzed: 02/22/2013 17:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 5.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	11	J	42	5.2
120-12-7	Anthracene	21		8.7	4.4
56-55-3	Benzo[a]anthracene	84		8.3	4.1
50-32-8	Benzo[a]pyrene	71		11	5.4
205-99-2	Benzo[b]fluoranthene	130		13	6.4
191-24-2	Benzo[g,h,i]perylene	58		21	4.6
207-08-9	Benzo[k]fluoranthene	44		8.3	3.7
218-01-9	Chrysene	110		9.4	4.7
53-70-3	Dibenz(a,h)anthracene	19	J	21	4.3
206-44-0	Fluoranthene	150		21	4.2
86-73-7	Fluorene	7.4	J	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	53		21	7.4
90-12-0	1-Methylnaphthalene	48		42	4.6
91-57-6	2-Methylnaphthalene	60		42	7.4
91-20-3	Naphthalene	68		42	4.6
85-01-8	Phenanthrene	120		8.3	4.1
129-00-0	Pyrene	110		21	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22016.D
Lab Smp Id: 680-87545-A-32-A Client Smp ID: FM0161U-CSD
Inj Date : 22-FEB-2013 17:42
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-32-A
Misc Info : 680-87545-A-32-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	Weight Extracted
M	5.462	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.184	6.188	(1.000)	3508005	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.856	(1.000)	2097004	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.114	(1.000)	3461867	40.0000	
$ 13 o-Terphenyl	230	9.427	9.431	(1.034)	380514	7.10784	490
* 17 Chrysene-d12	240	11.466	11.464	(1.000)	3454345	40.0000	
* 22 Perylene-d12	264	13.352	13.344	(1.000)	3610604	40.0000	
2 Naphthalene	128	6.201	6.205	(1.003)	92304	0.98362	68
3 2-Methylnaphthalene	142	6.906	6.910	(1.117)	51872	0.86775	60
4 1-Methylnaphthalene	142	6.995	6.999	(1.131)	38700	0.69134	48
5 Acenaphthylene	152	7.729	7.733	(0.984)	14433	0.15611	11
8 Fluorene	166	8.322	8.326	(1.059)	7042	0.10692	7.4
10 Phenanthrene	178	9.133	9.137	(1.002)	169260	1.72238	120
11 Anthracene	178	9.174	9.184	(1.006)	30123	0.30637	21
12 Carbazole	167	9.310	9.313	(1.021)	17581	0.20002	14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.114	10.124	(1.110)	218267	2.12833	150
15 Pyrene	202	10.302	10.312	(0.899)	166049	1.54968	110
16 Benzo(a)anthracene	228	11.448	11.446	(0.998)	114459	1.21028	84
18 Chrysene	228	11.483	11.499	(1.002)	155957	1.59733	110(H)
19 Benzo(b)fluoranthene	252	12.776	12.792	(0.957)	171398	1.84425	130(H)
20 Benzo(k)fluoranthene	252	12.811	12.839	(0.960)	60989	0.62677	44(QH)
21 Benzo(a)pyrene	252	13.240	13.262	(0.992)	94111	1.02330	71
23 Indeno(1,2,3-cd)pyrene	276	14.956	14.995	(1.120)	75252	0.76673	53(M)
24 Dibenzo(a,h)anthracene	278	14.985	15.030	(1.122)	25162	0.27760	19(H)
25 Benzo(g,h,i)perylene	276	15.426	15.465	(1.155)	78845	0.84257	58(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22016.D

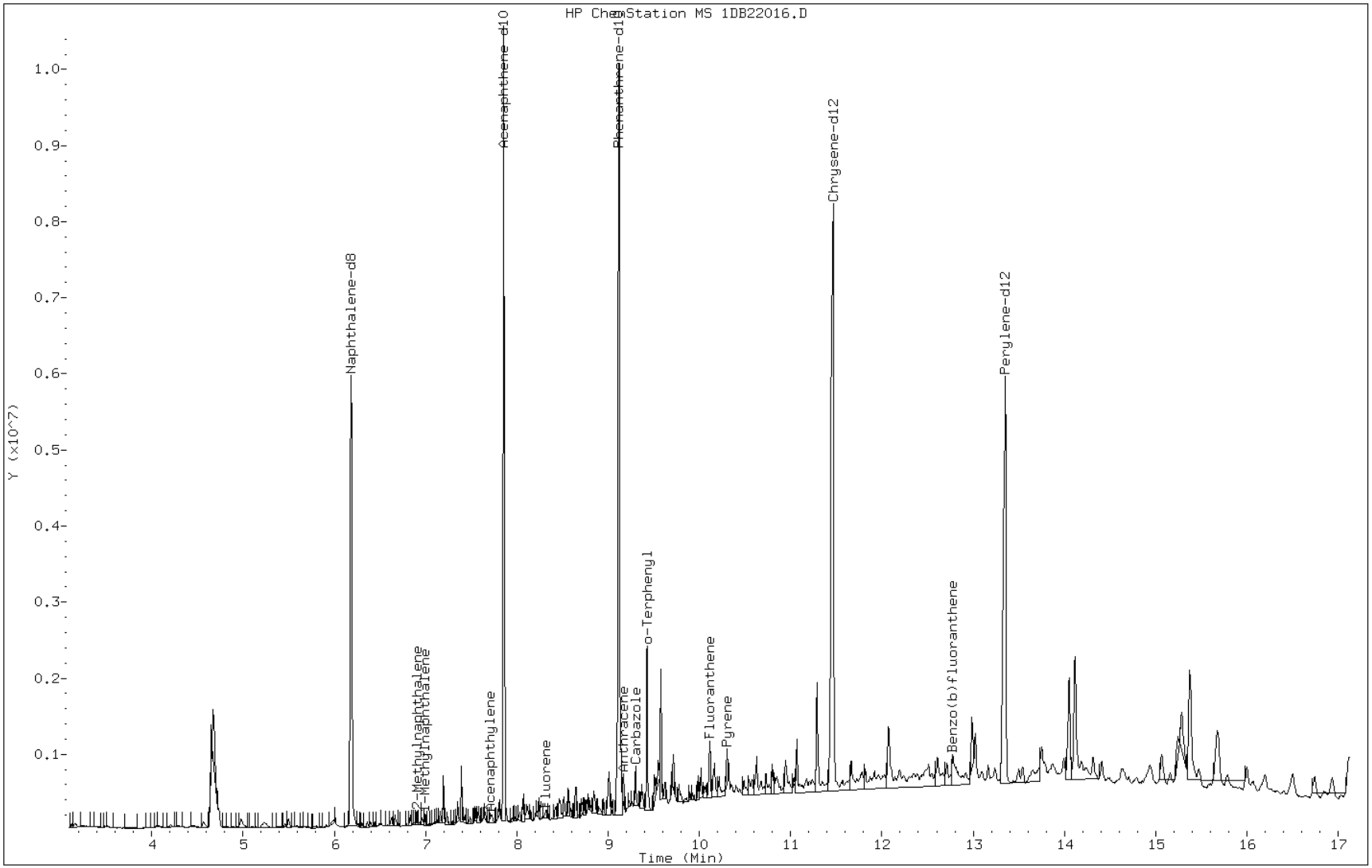
Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD

Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A

Operator: SCC



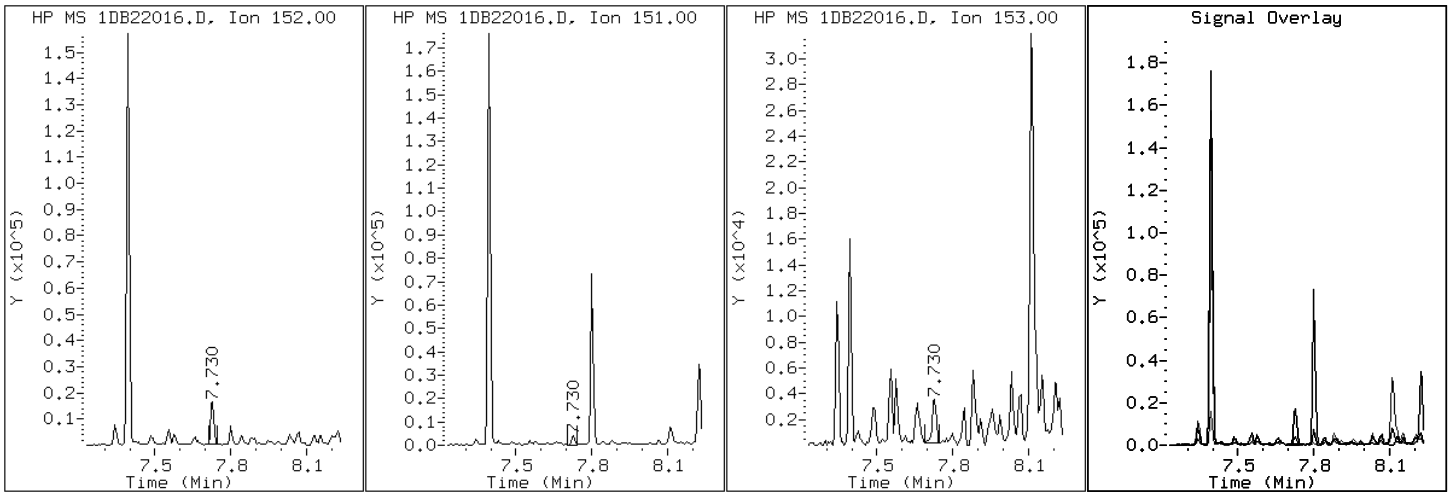
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

5 Acenaphthylene



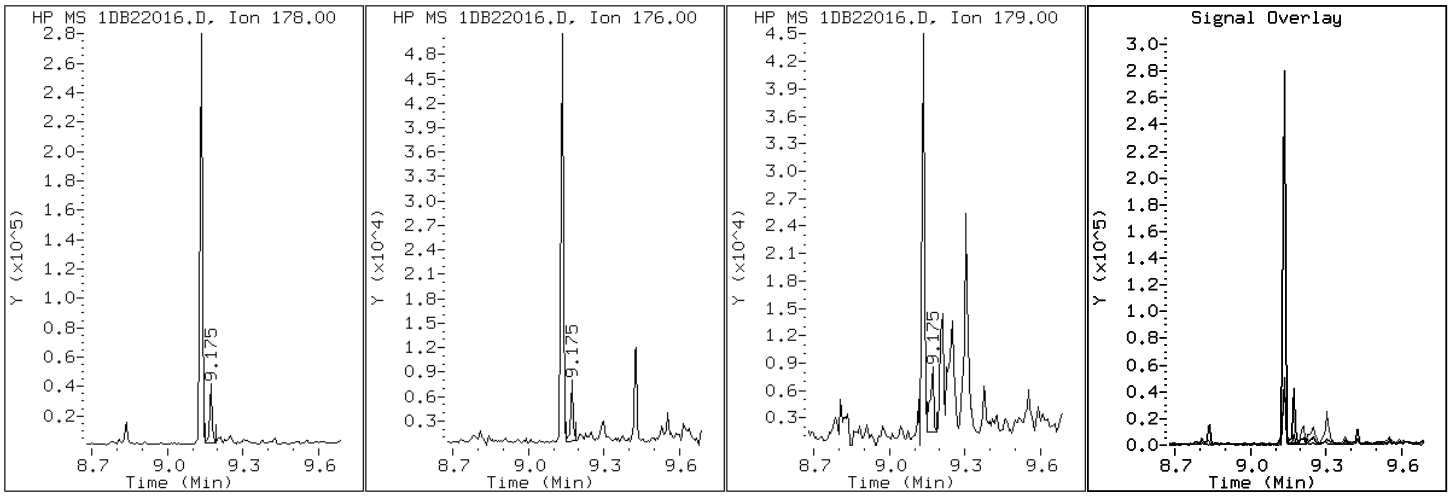
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

11 Anthracene



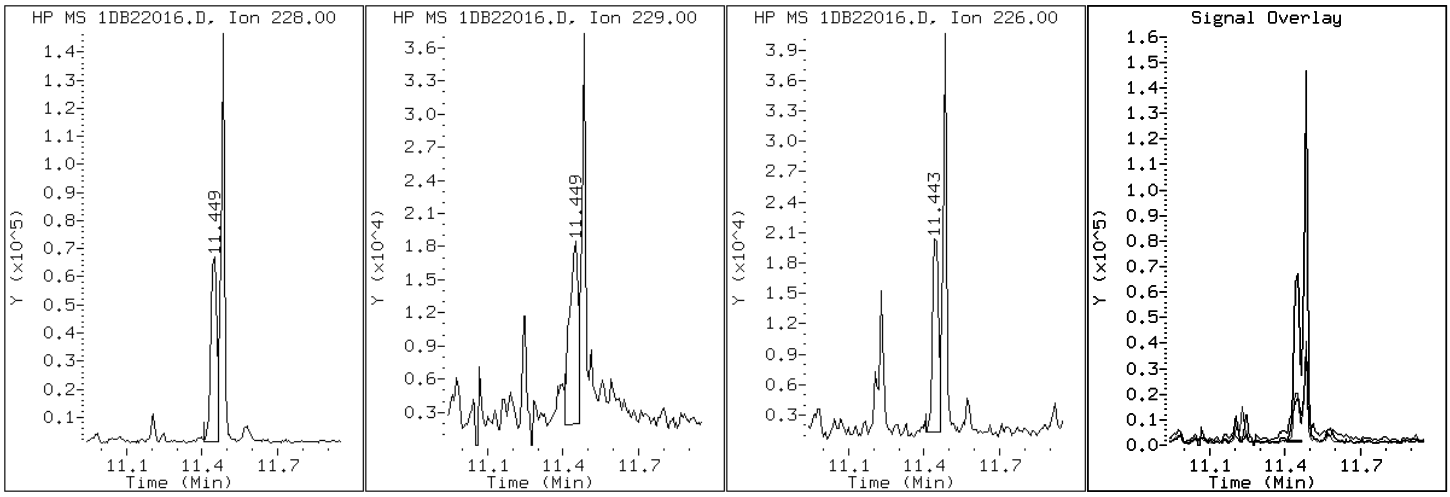
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

16 Benzo(a)anthracene



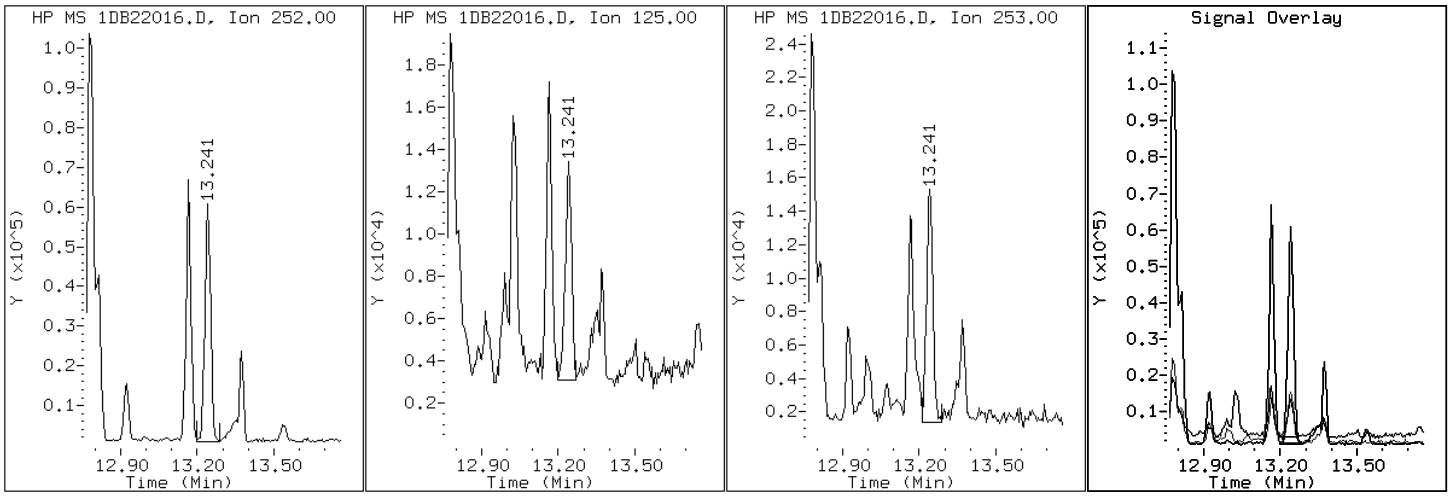
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

21 Benzo(a)pyrene



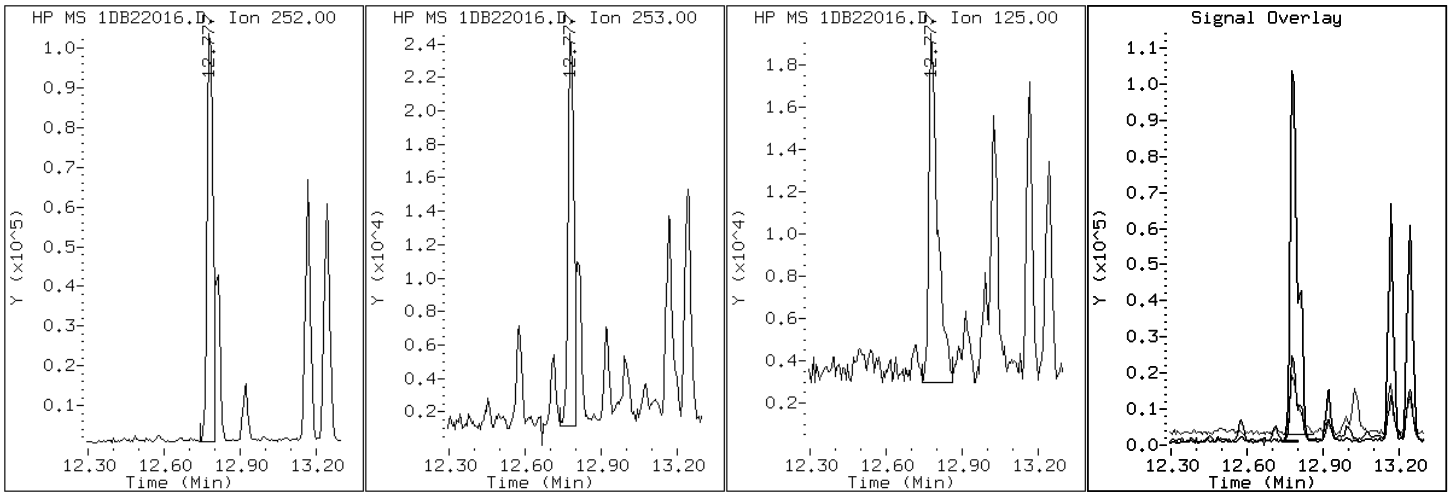
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

19 Benzo(b)fluoranthene



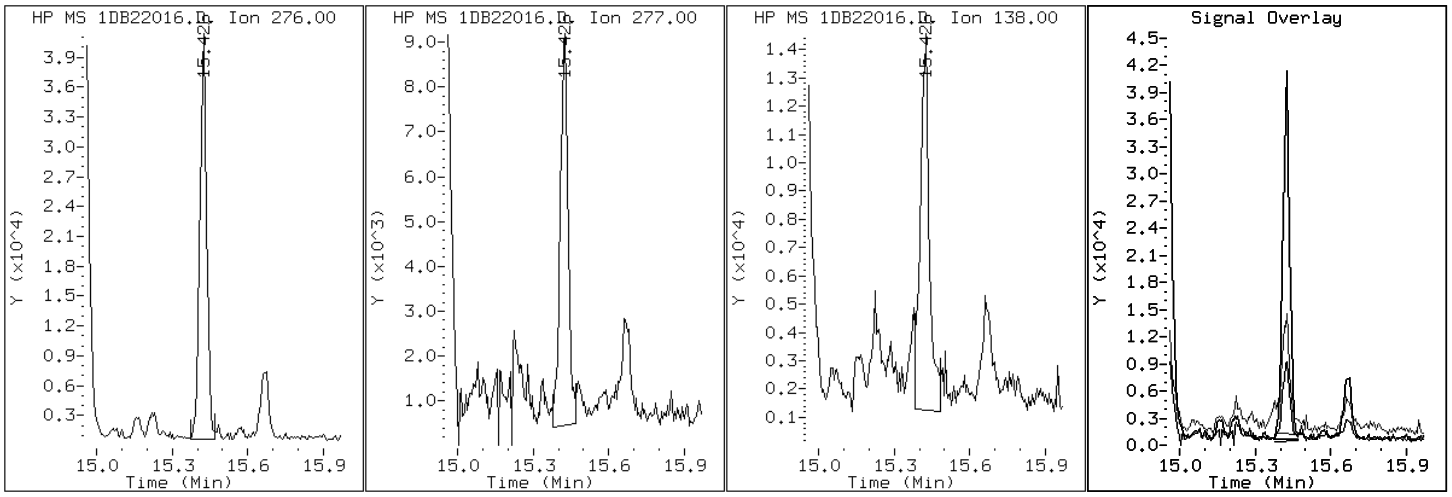
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

25 Benzo(g,h,i)perylene



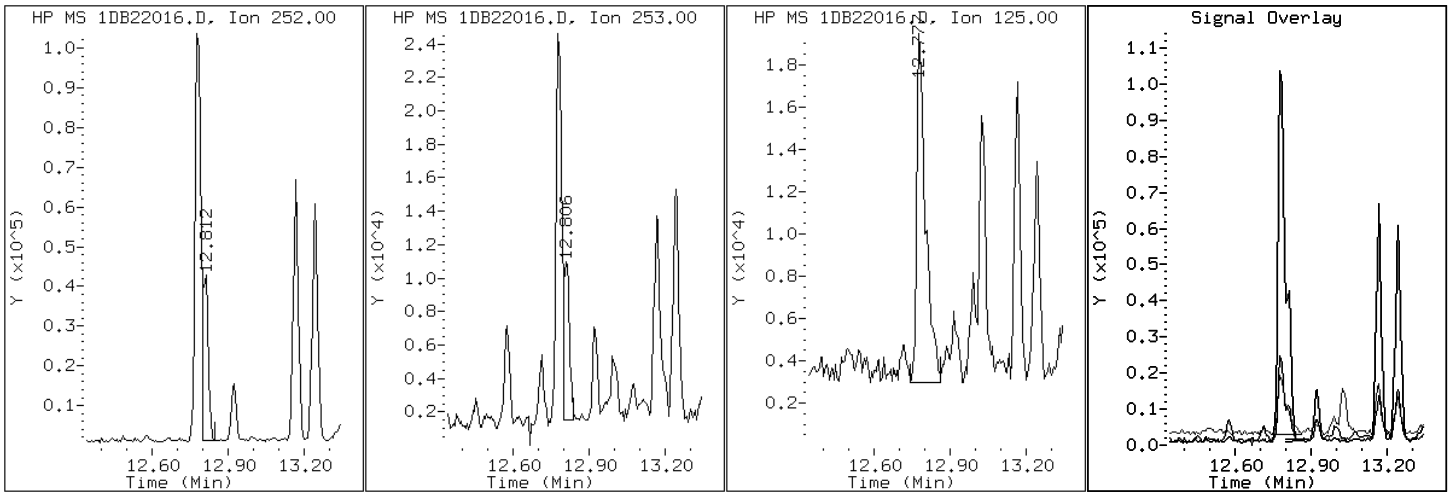
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

20 Benzo(k)fluoranthene



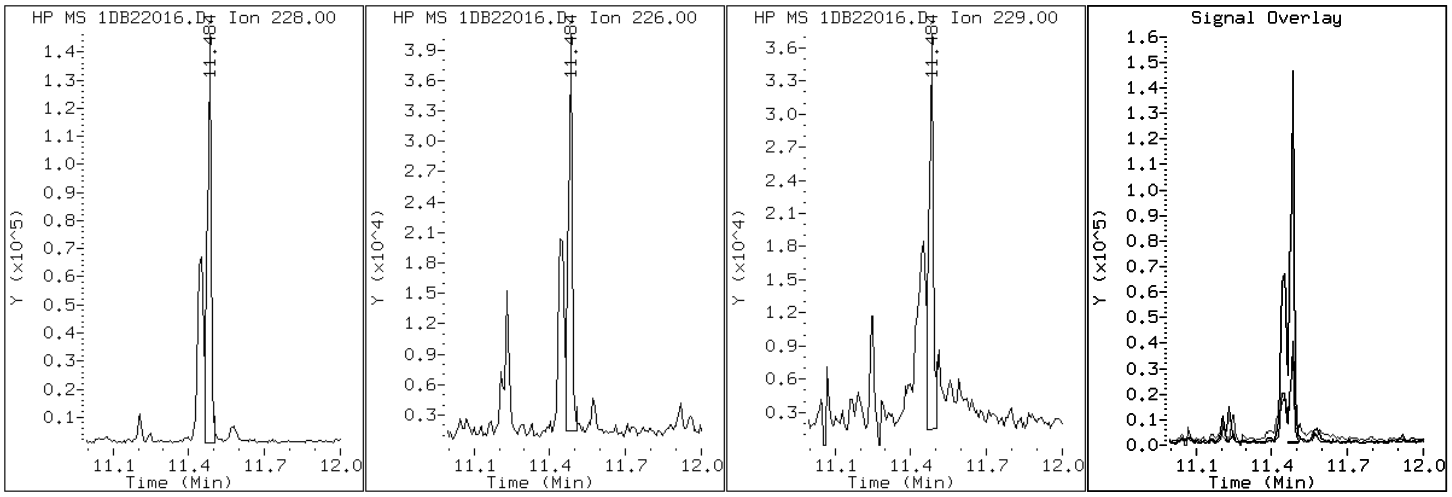
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

18 Chrysene



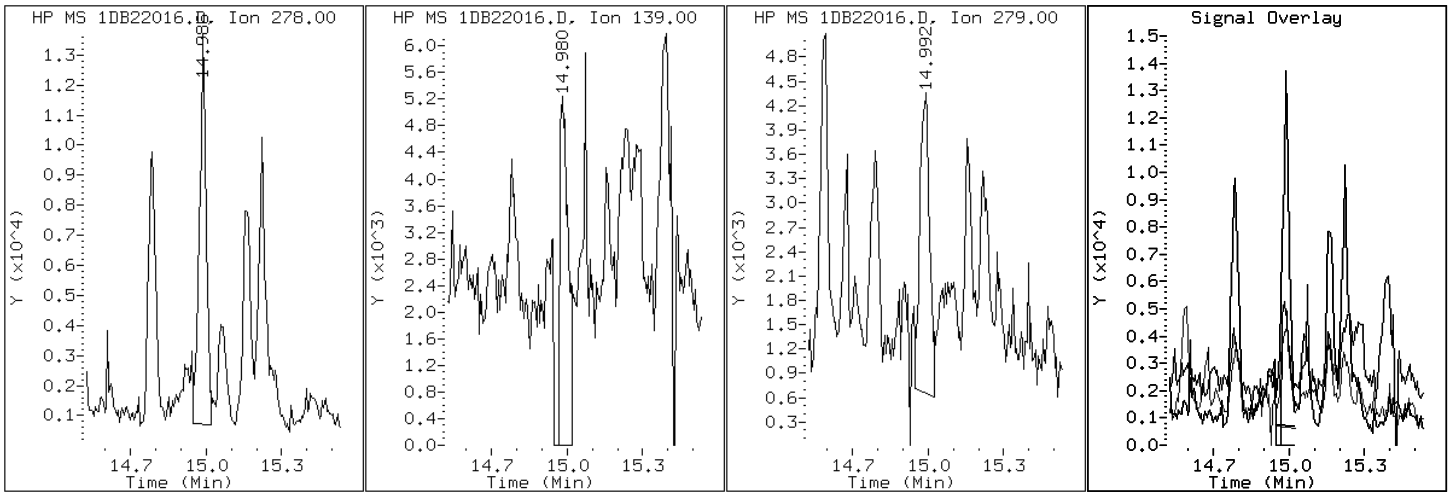
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

24 Dibenzo(a,h)anthracene



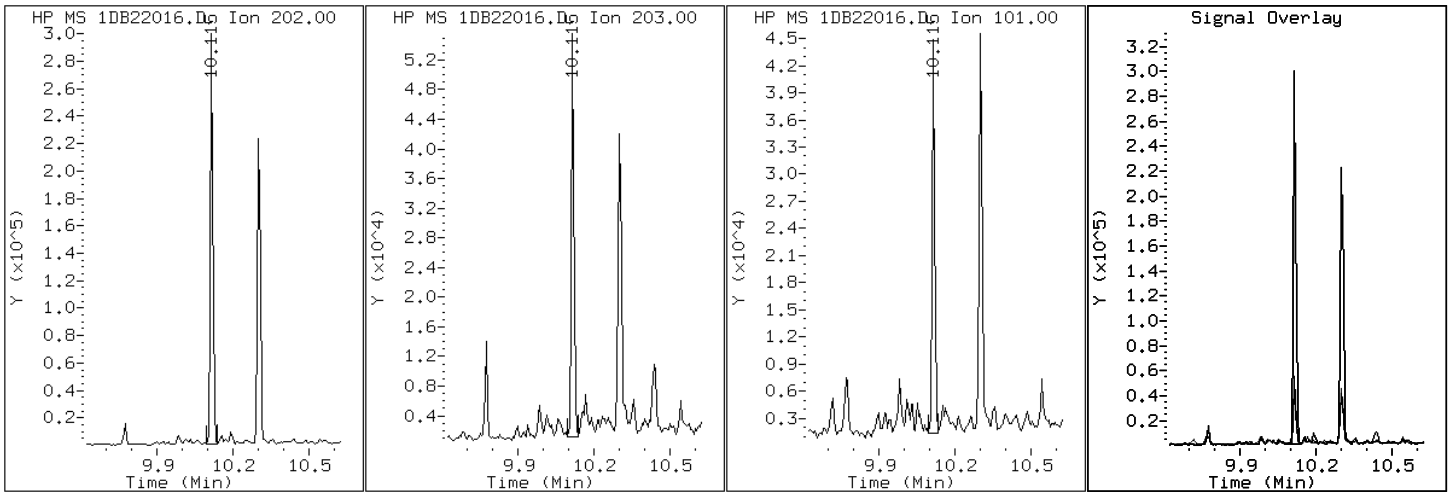
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

14 Fluoranthene



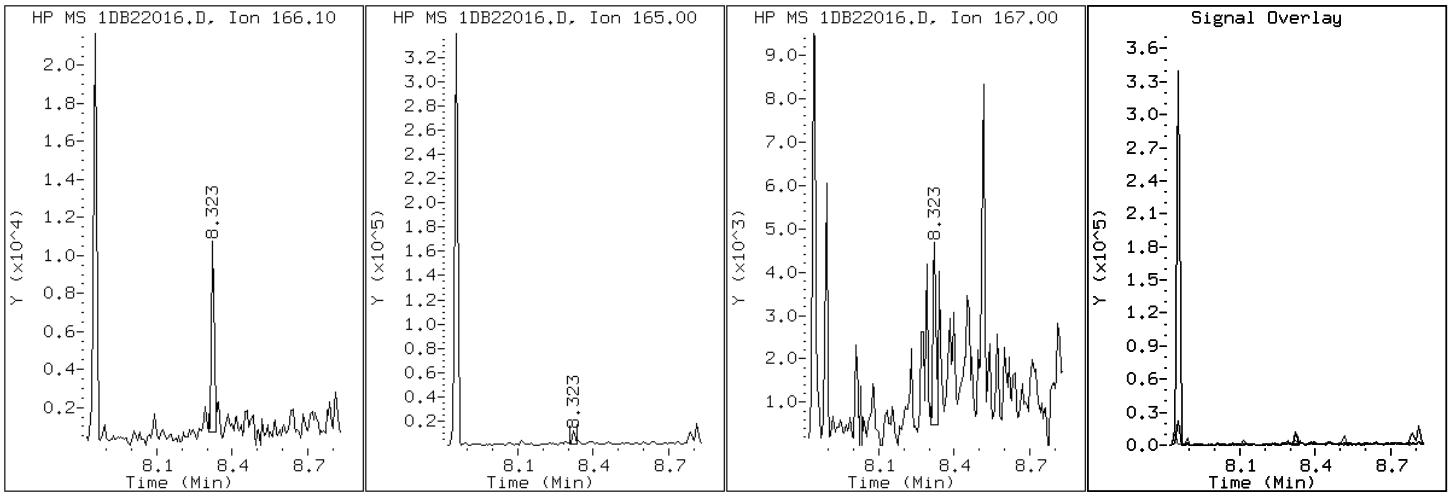
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

8 Fluorene



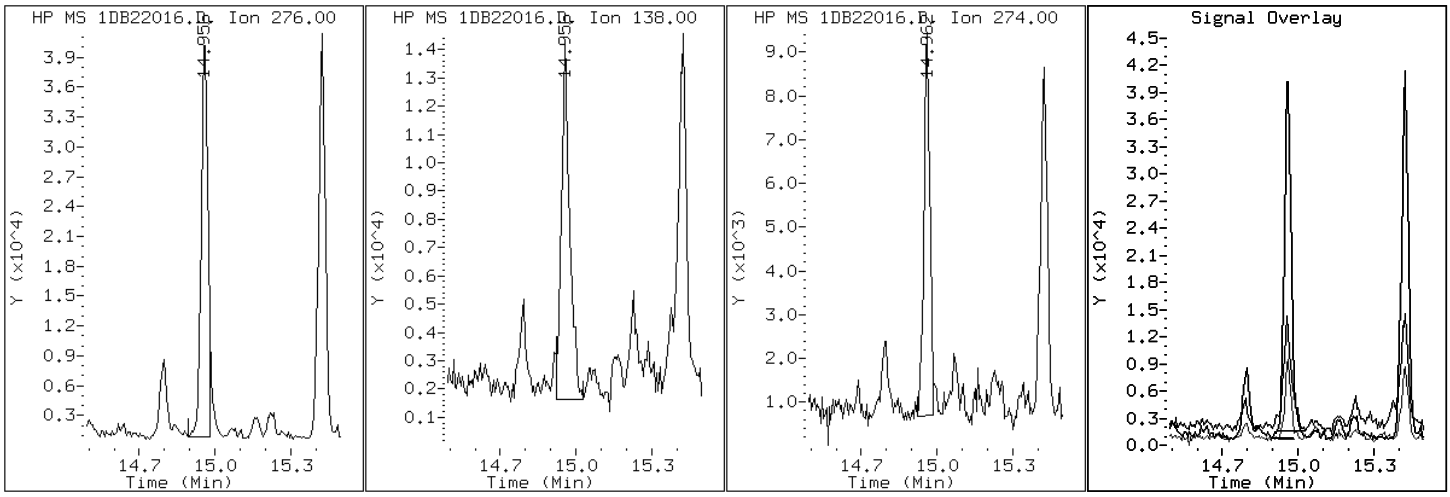
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



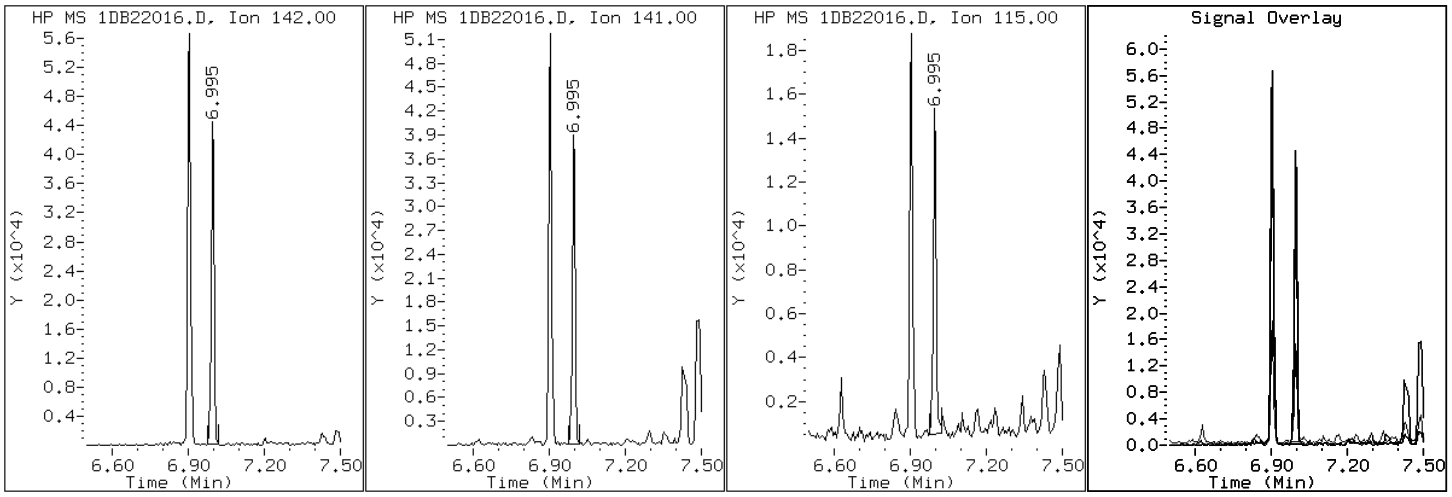
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

4 1-Methylnaphthalene



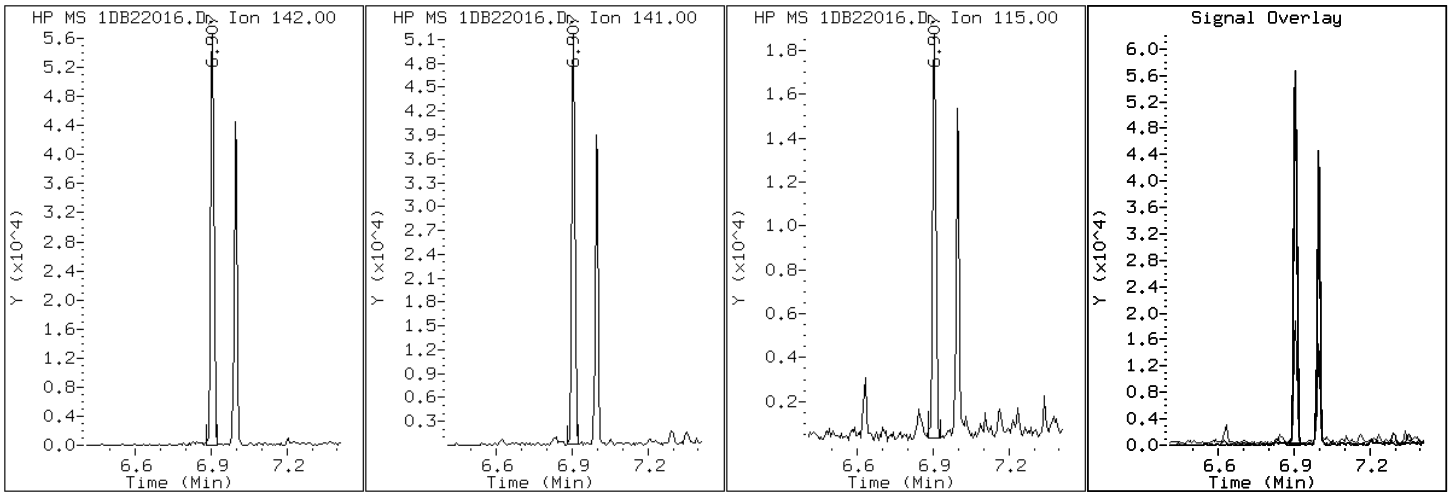
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

3 2-Methylnaphthalene



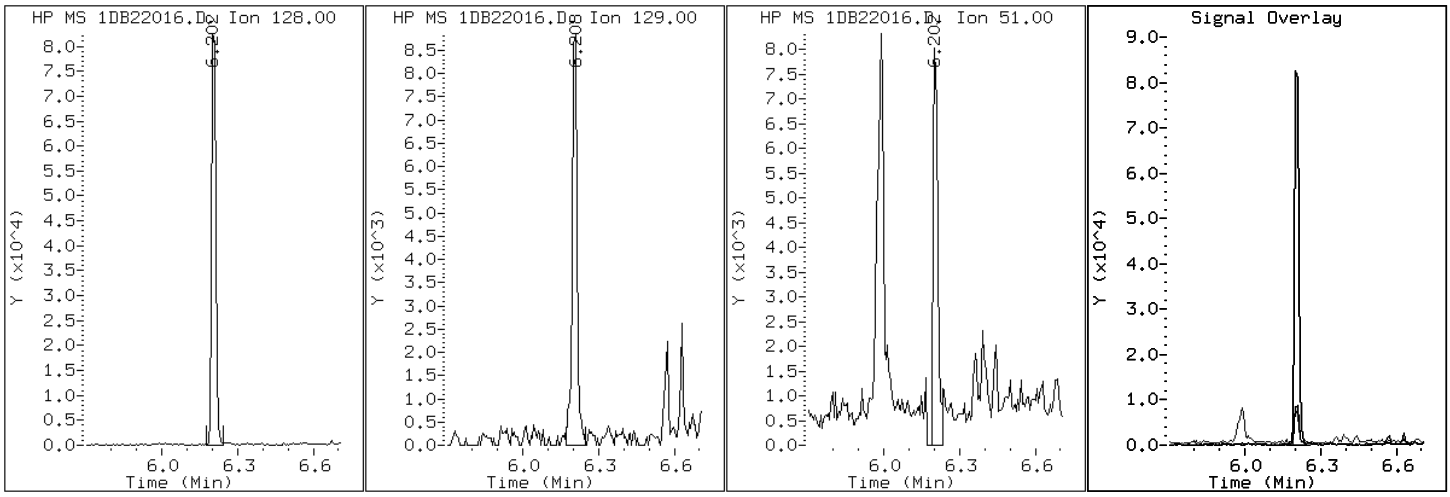
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

2 Naphthalene



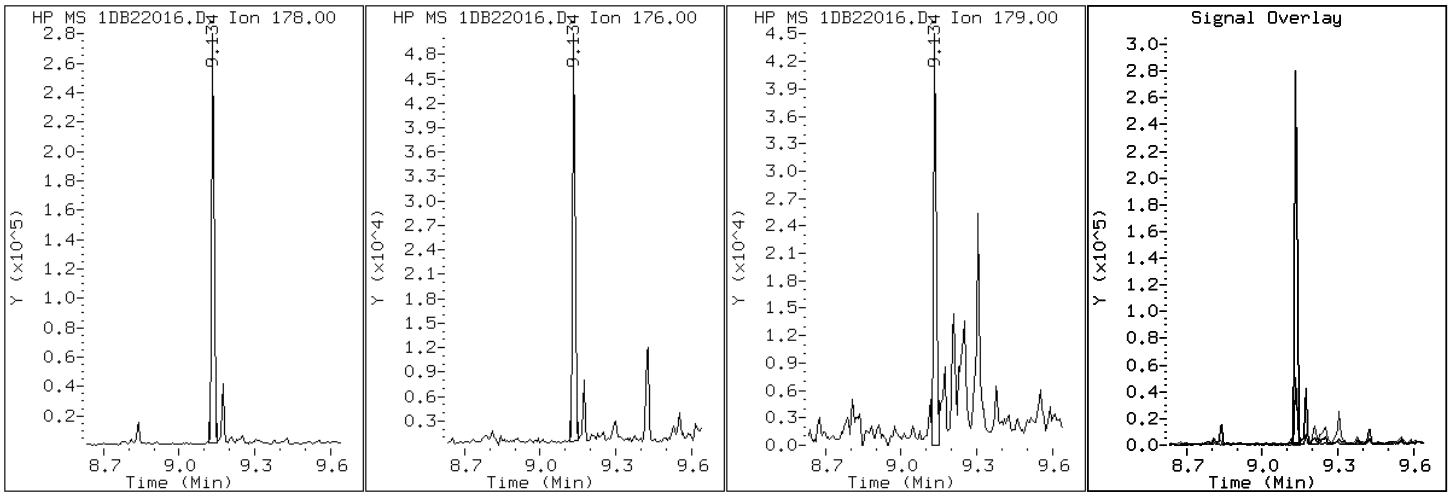
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

10 Phenanthrene



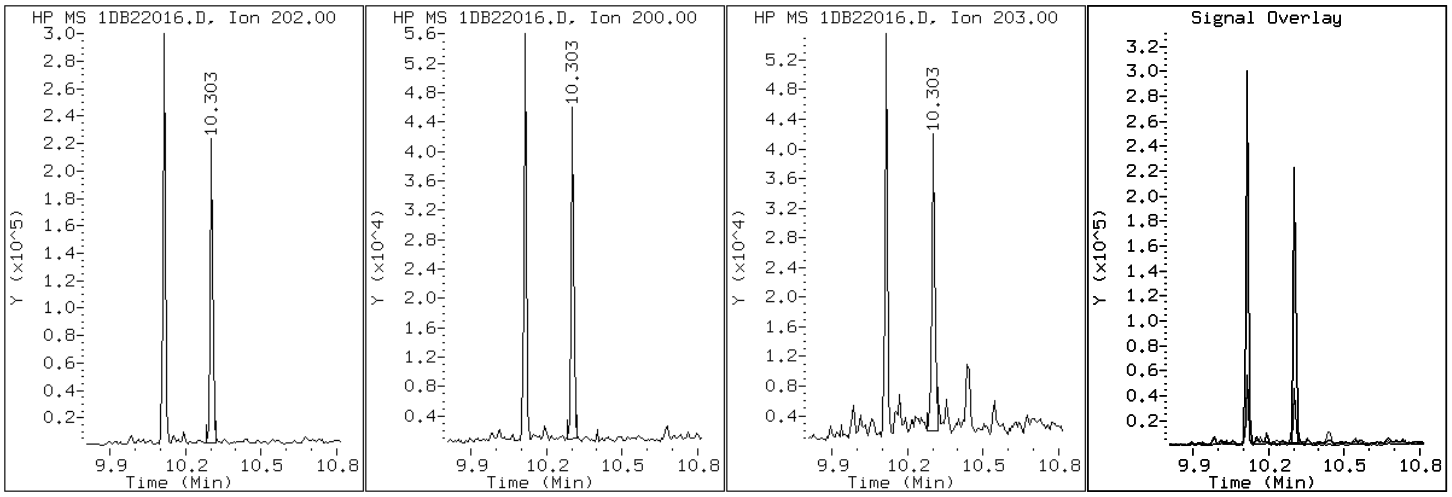
Data File: 1DB22016.D

Date: 22-FEB-2013 17:42

Client ID: FM0161U-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-32-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB22016.D
Inj. Date and Time: 22-FEB-2013 17:42
Instrument ID: BSMSD.i
Client ID: FM0161U-CSD
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

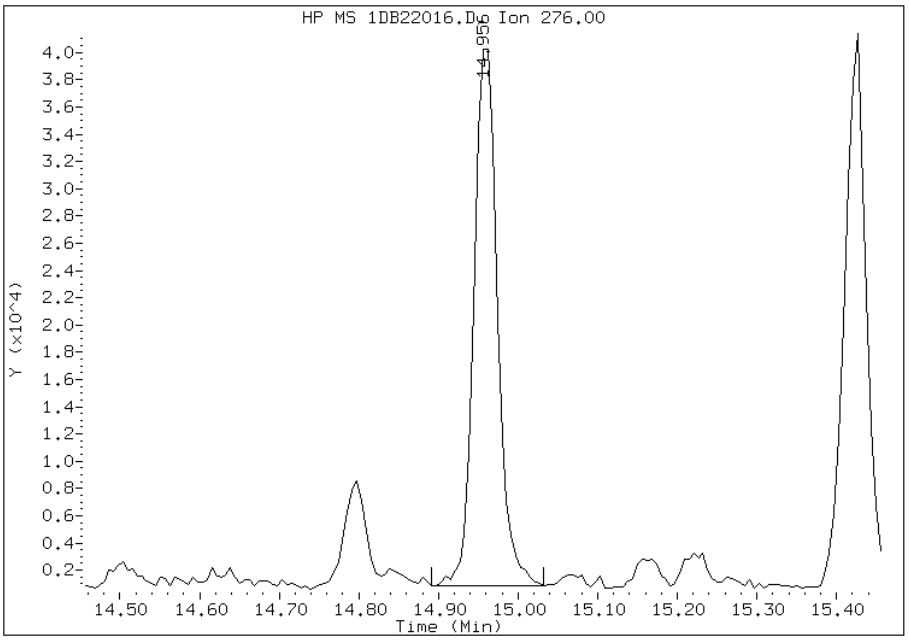
Processing Integration Results

RT: 14.96

Response: 80851

Amount: 1

Conc: 57



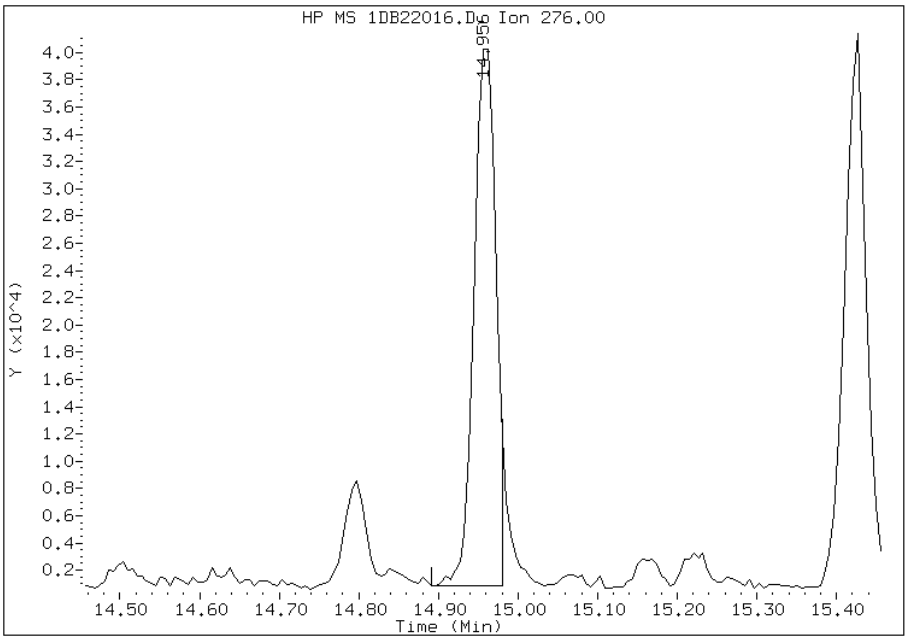
Manual Integration Results

RT: 14.96

Response: 75252

Amount: 1

Conc: 53



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 15:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161V-CS | Lab Sample ID: 680-87545-33

Matrix: Solid | Lab File ID: 1DB22017.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 12:58

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 15.42(g) | Date Analyzed: 02/22/2013 18:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 2.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	400	U	400	80
208-96-8	Acenaphthylene	160	U	160	20
120-12-7	Anthracene	24	J	33	17
56-55-3	Benzo[a]anthracene	100		32	16
50-32-8	Benzo[a]pyrene	90		41	21
205-99-2	Benzo[b]fluoranthene	160		49	24
191-24-2	Benzo[g,h,i]perylene	83		80	18
207-08-9	Benzo[k]fluoranthene	52		32	14
218-01-9	Chrysene	150		36	18
53-70-3	Dibenz(a,h)anthracene	30	J	80	16
206-44-0	Fluoranthene	190		80	16
86-73-7	Fluorene	80	U	80	16
193-39-5	Indeno[1,2,3-cd]pyrene	69	J	80	28
90-12-0	1-Methylnaphthalene	64	J	160	18
91-57-6	2-Methylnaphthalene	81	J	160	28
91-20-3	Naphthalene	84	J	160	18
85-01-8	Phenanthrene	160		32	16
129-00-0	Pyrene	150		80	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22017.D
Lab Smp Id: 680-87545-A-33-A Client Smp ID: FM0161V-CS
Inj Date : 22-FEB-2013 18:04
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-33-A
Misc Info : 680-87545-A-33-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 17
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.420	Weight Extracted
M	2.169	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.183	6.188	(1.000)	3589110	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.856	(1.000)	2186324	40.0000	
* 9 Phenanthrene-d10	188	9.121	9.114	(1.000)	3586343	40.0000	
$ 13 o-Terphenyl	230	9.421	9.431	(1.033)	118682	2.13998	570
* 17 Chrysene-d12	240	11.465	11.464	(1.000)	3597784	40.0000	
* 22 Perylene-d12	264	13.351	13.344	(1.000)	3852814	40.0000	
2 Naphthalene	128	6.207	6.205	(1.004)	30592	0.31863	84
3 2-Methylnaphthalene	142	6.906	6.910	(1.117)	18789	0.30721	81
4 1-Methylnaphthalene	142	6.994	6.999	(1.131)	13860	0.24200	64
5 Acenaphthylene	152	7.729	7.733	(0.984)	4235	0.04394	12
8 Fluorene	166	8.322	8.326	(1.059)	2616	0.03810	10
10 Phenanthrene	178	9.133	9.137	(1.001)	61575	0.60484	160
11 Anthracene	178	9.174	9.184	(1.006)	9063	0.08898	24(H)
12 Carbazole	167	9.309	9.313	(1.021)	7573	0.08317	22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.114	10.124	(1.109)	77543	0.72988	190
15 Pyrene	202	10.302	10.312	(0.899)	62582	0.56077	150
16 Benzo(a)anthracene	228	11.442	11.446	(0.998)	38401	0.38986	100
18 Chrysene	228	11.483	11.499	(1.002)	58521	0.57548	150
19 Benzo(b)fluoranthene	252	12.776	12.792	(0.957)	60424	0.60929	160(H)
20 Benzo(k)fluoranthene	252	12.805	12.839	(0.959)	20388	0.19635	52(H)
21 Benzo(a)pyrene	252	13.234	13.262	(0.991)	33314	0.33946	90(H)
23 Indeno(1,2,3-cd)pyrene	276	14.949	14.995	(1.120)	27385	0.26148	69(MH)
24 Dibenzo(a,h)anthracene	278	14.973	15.030	(1.121)	11112	0.11489	30(H)
25 Benzo(g,h,i)perylene	276	15.408	15.465	(1.154)	31142	0.31187	83(H)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22017.D

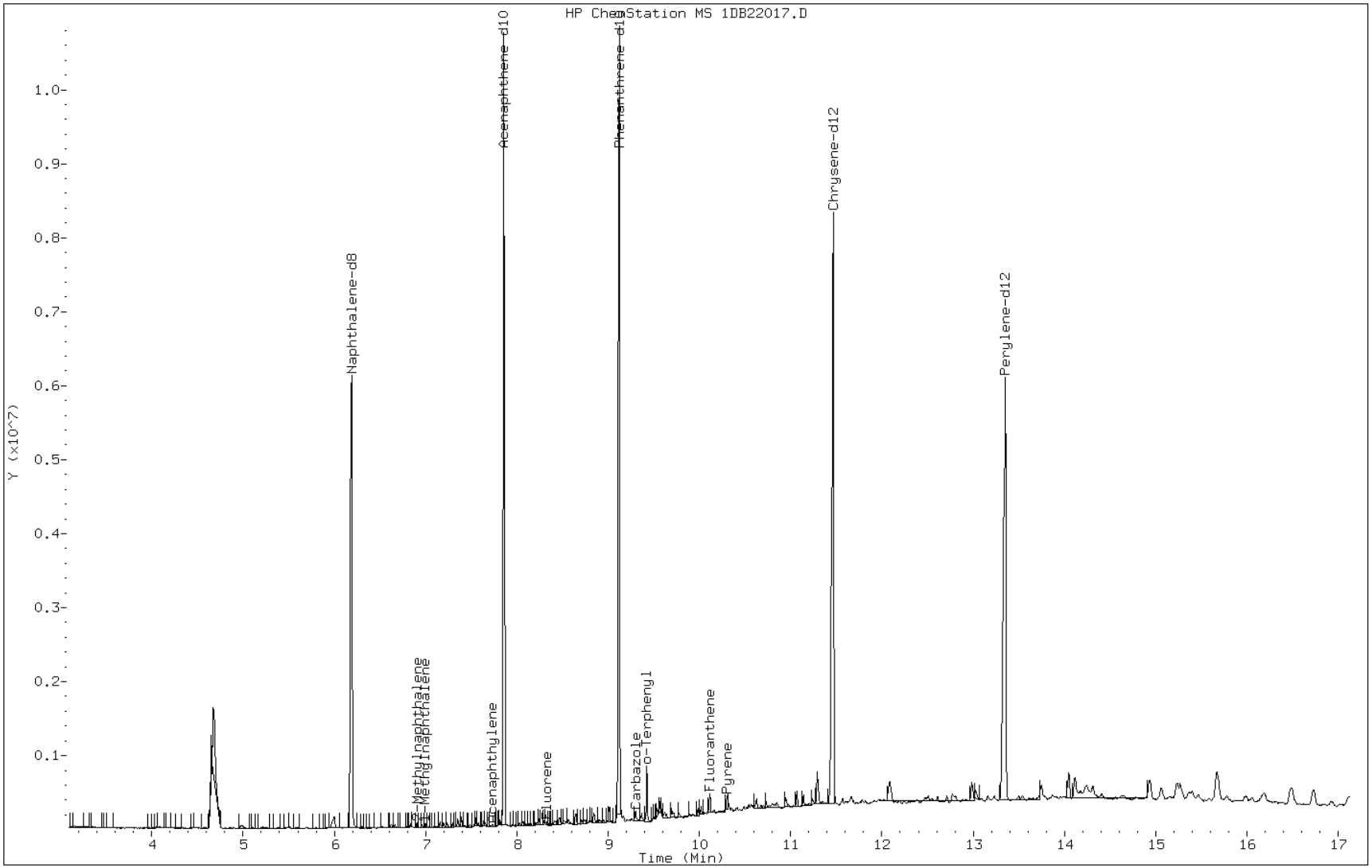
Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A

Operator: SCC



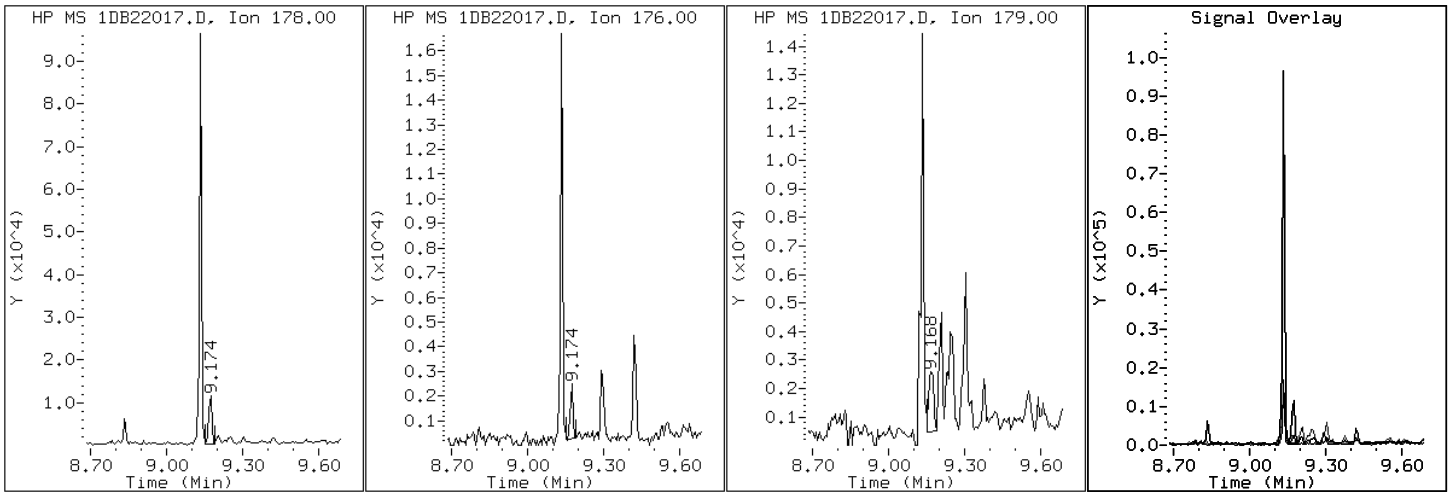
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

11 Anthracene



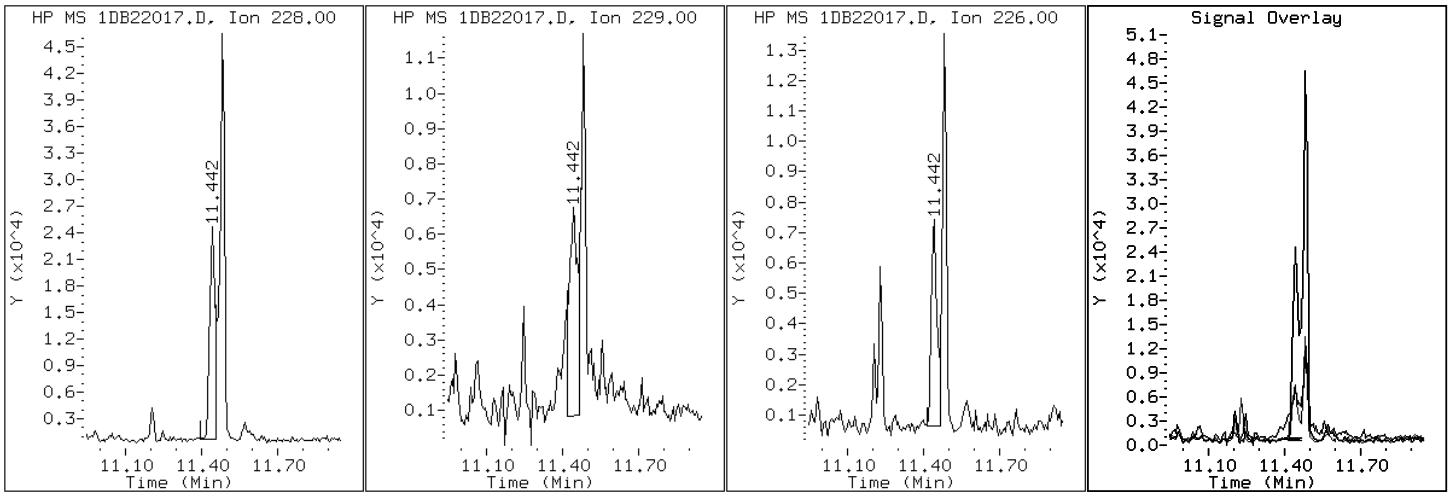
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

16 Benzo(a)anthracene



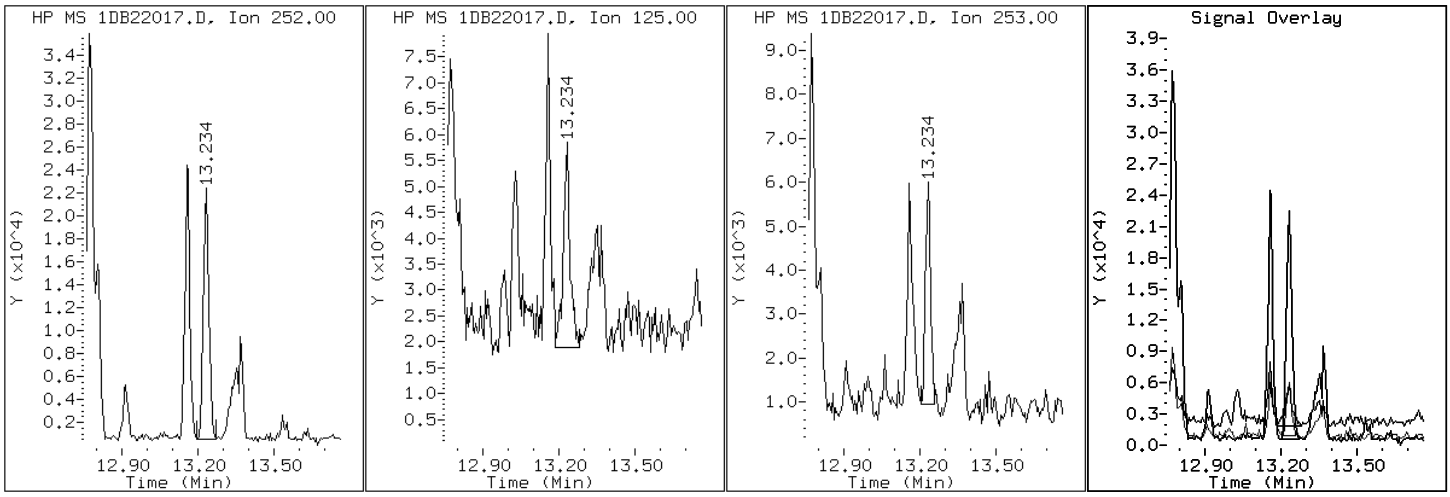
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

21 Benzo(a)pyrene



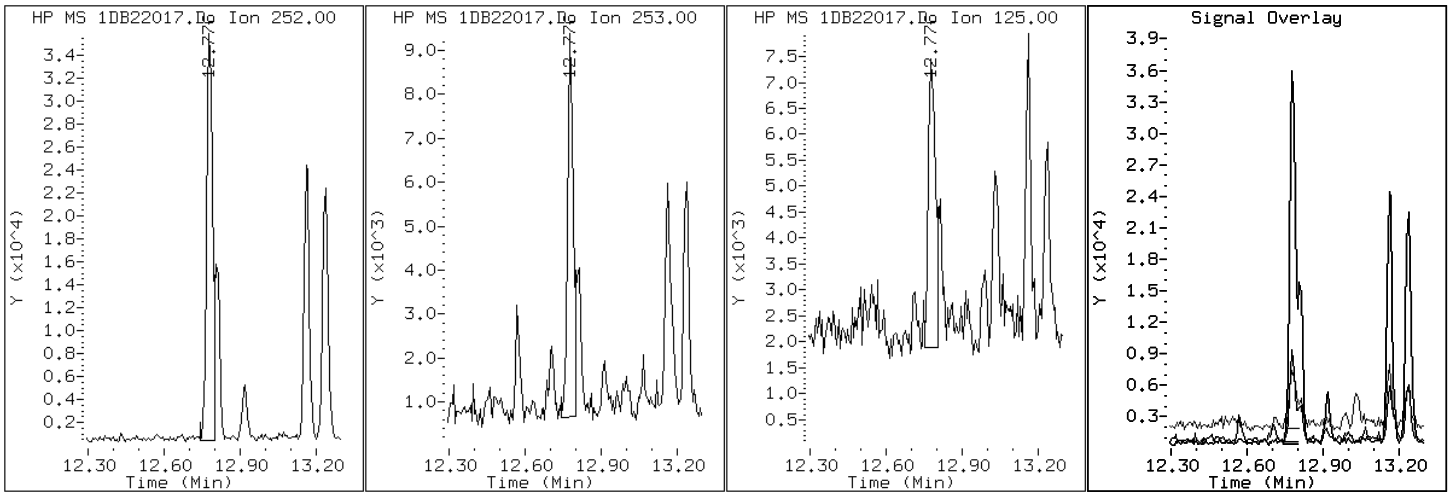
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

19 Benzo(b)fluoranthene



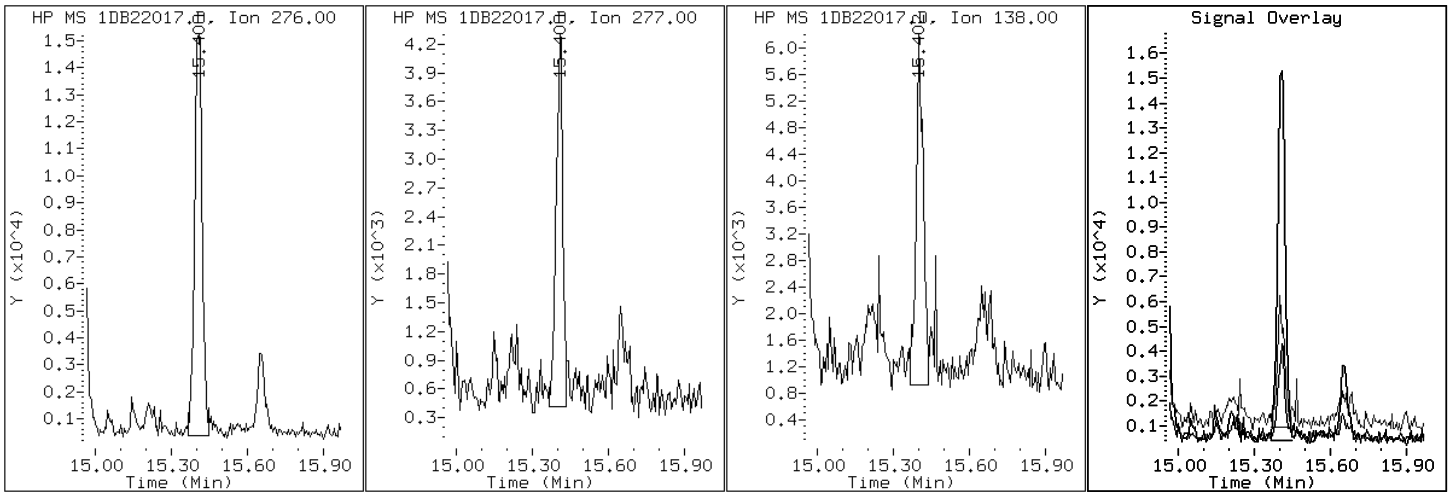
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

25 Benzo(g,h,i)perylene



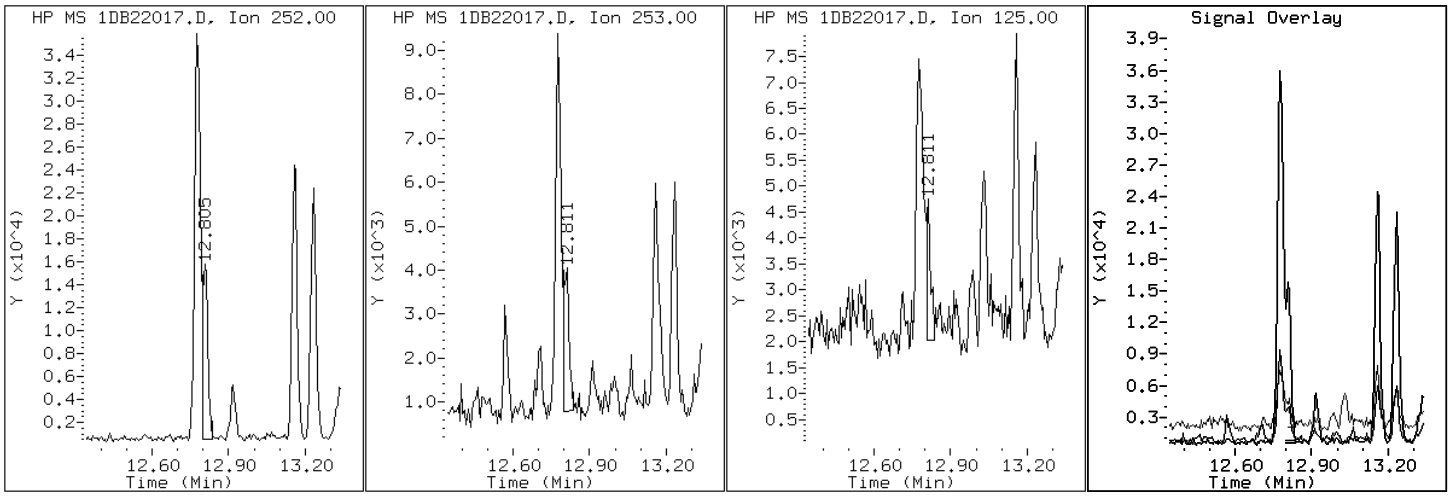
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

20 Benzo(k)fluoranthene



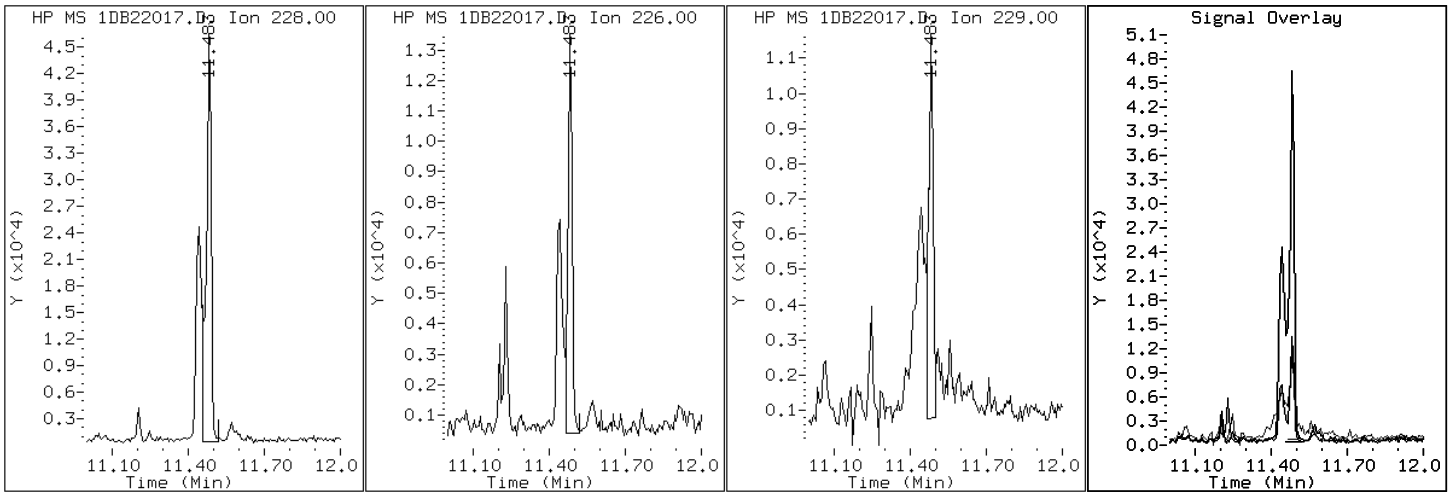
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

18 Chrysene



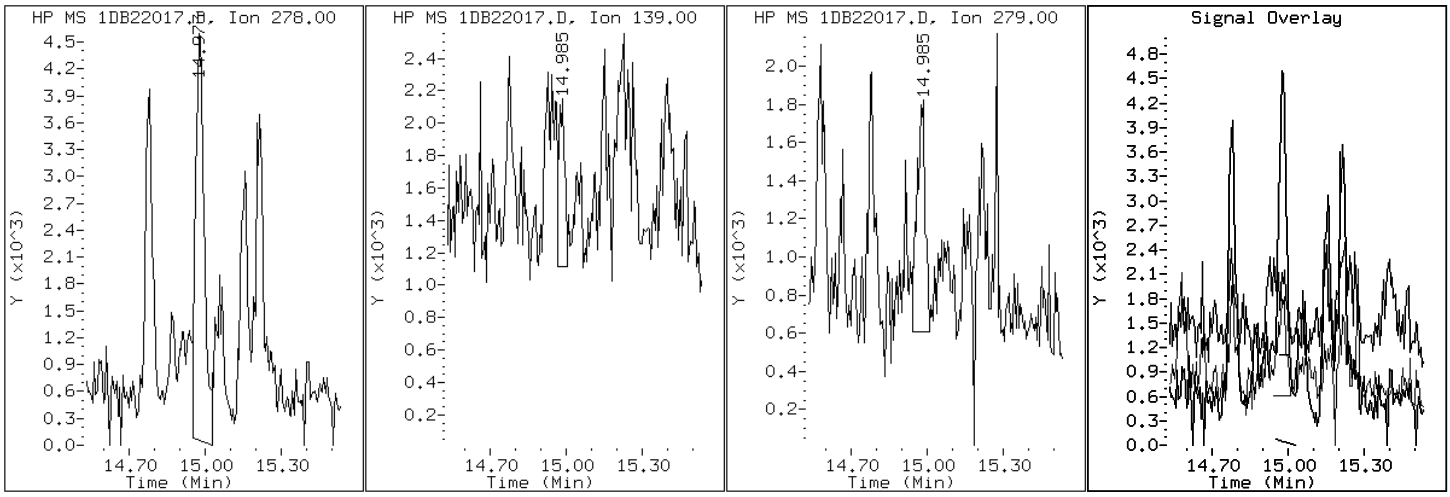
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

24 Dibenzo(a,h)anthracene



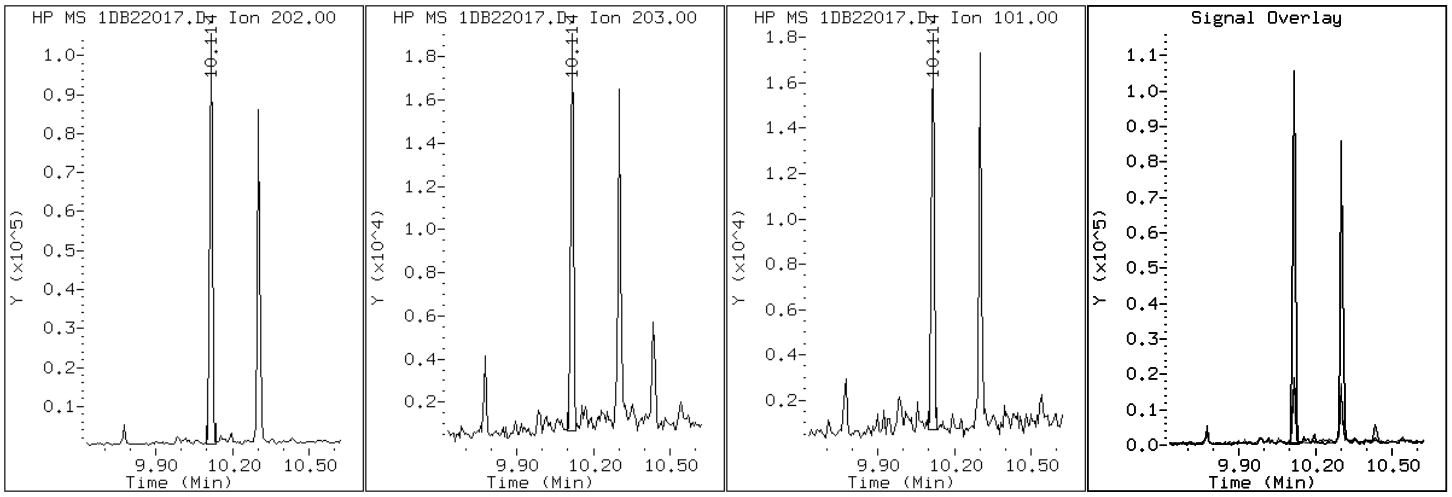
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

14 Fluoranthene



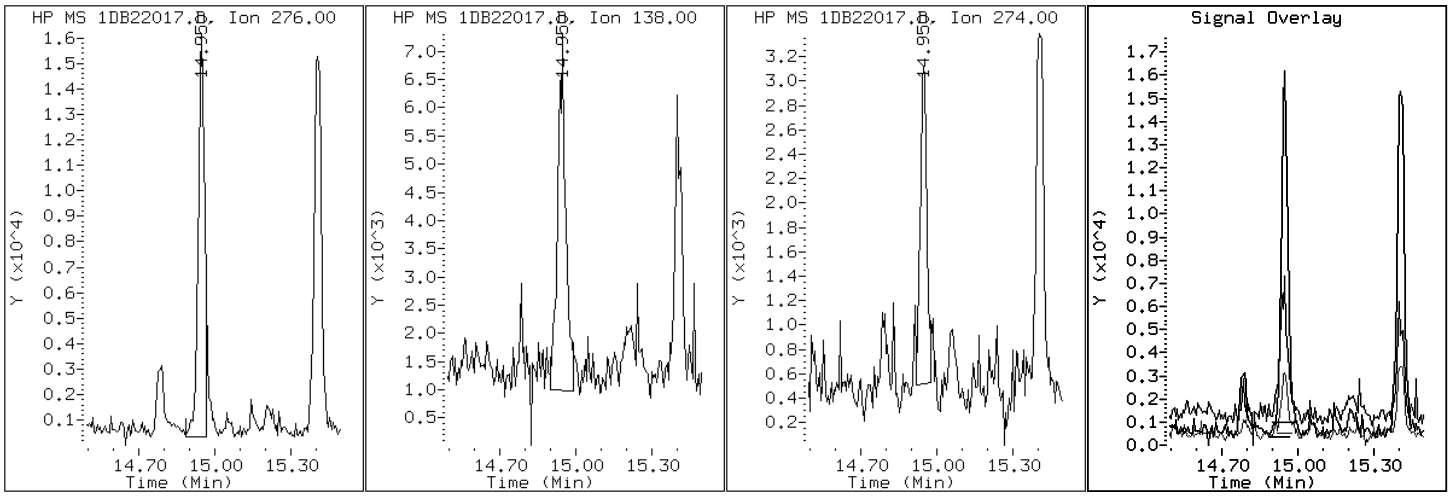
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



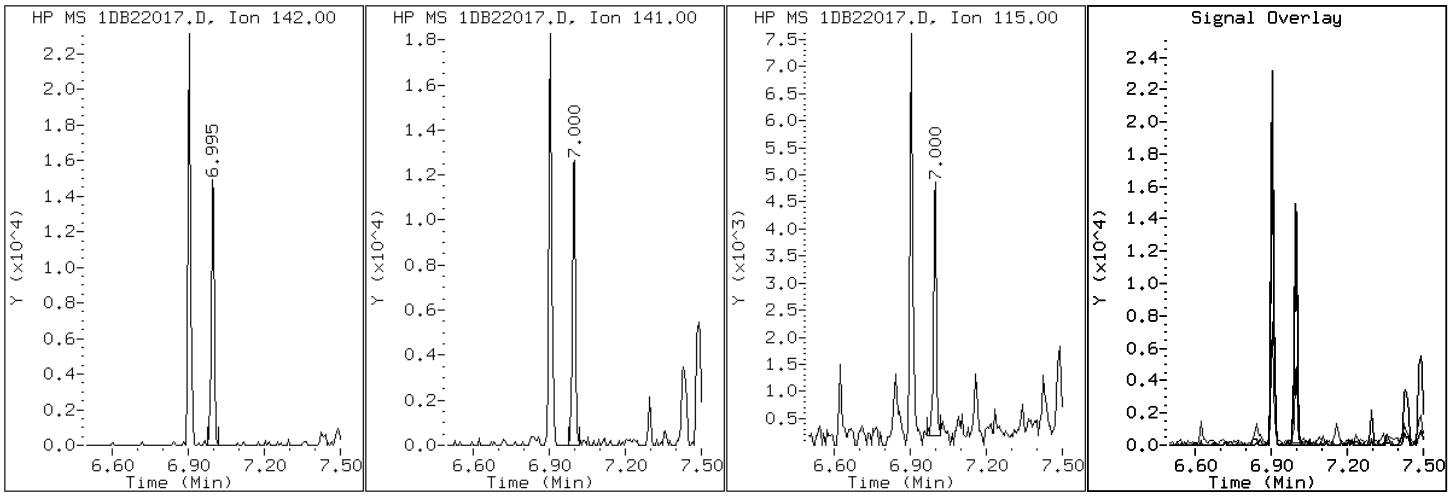
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

4 1-Methylnaphthalene



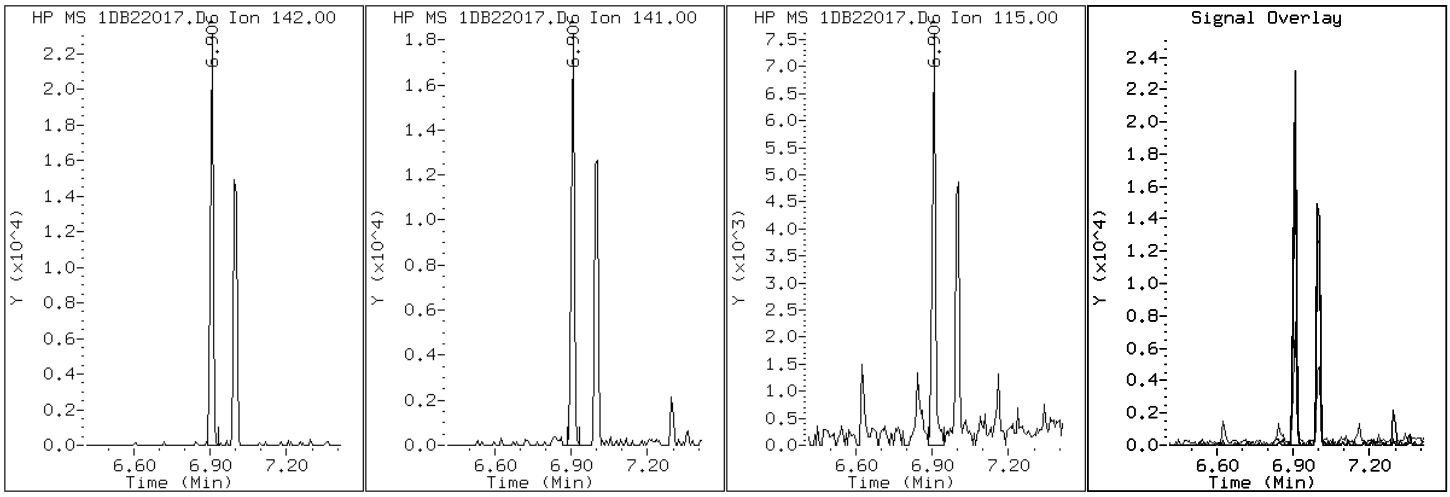
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

3 2-Methylnaphthalene



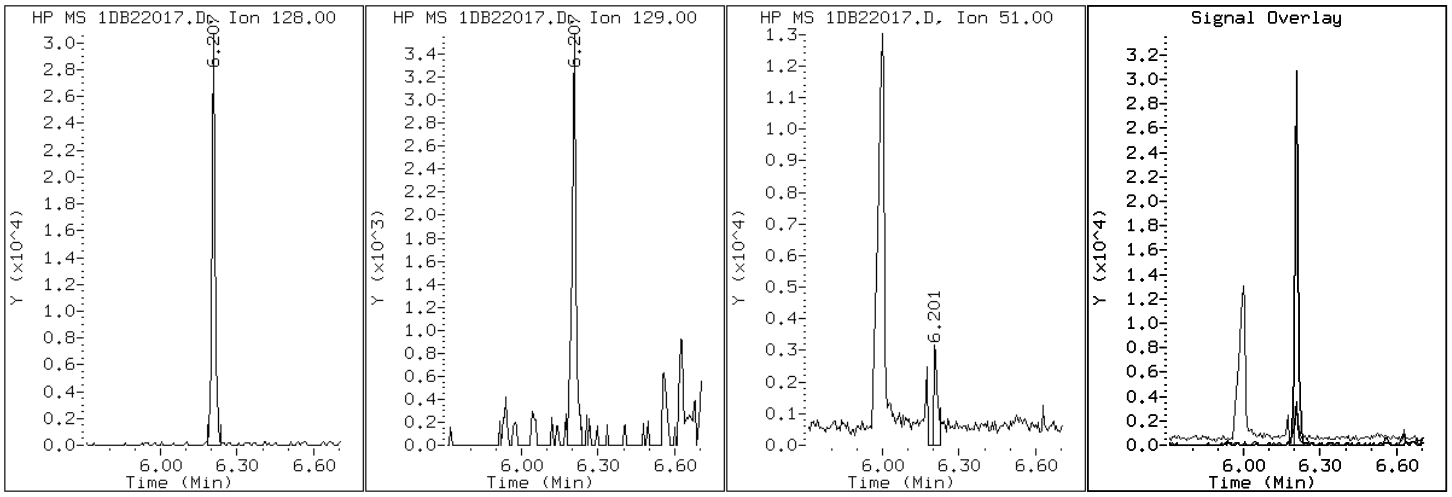
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

2 Naphthalene



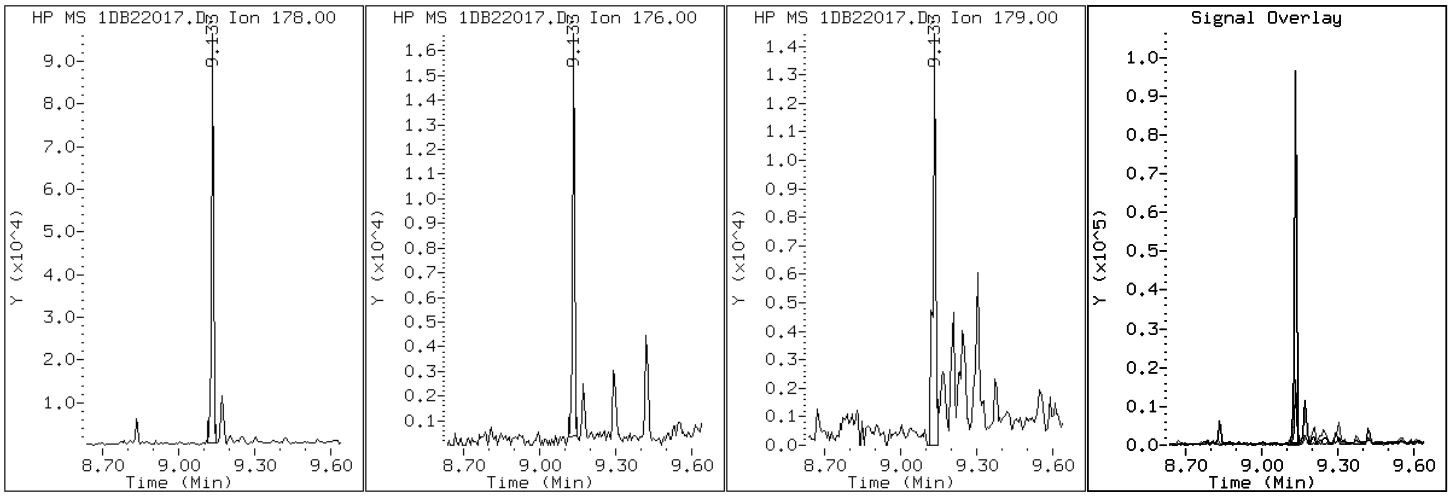
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

10 Phenanthrene



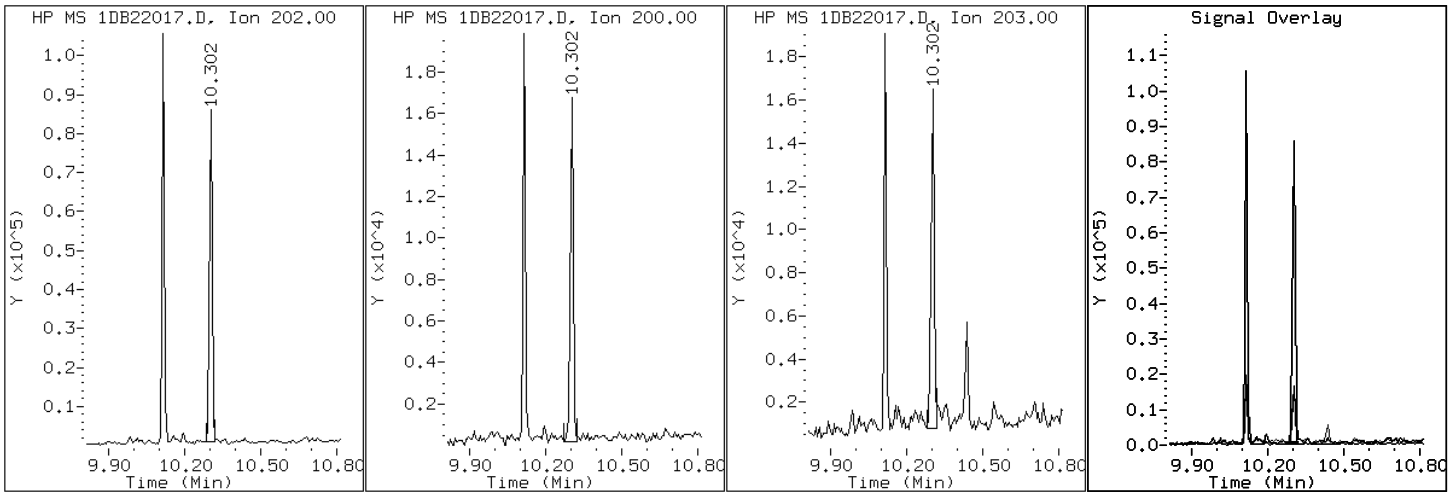
Data File: 1DB22017.D

Date: 22-FEB-2013 18:04

Client ID: FM0161V-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-33-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB22017.D
Inj. Date and Time: 22-FEB-2013 18:04
Instrument ID: BSMSD.i
Client ID: FM0161V-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

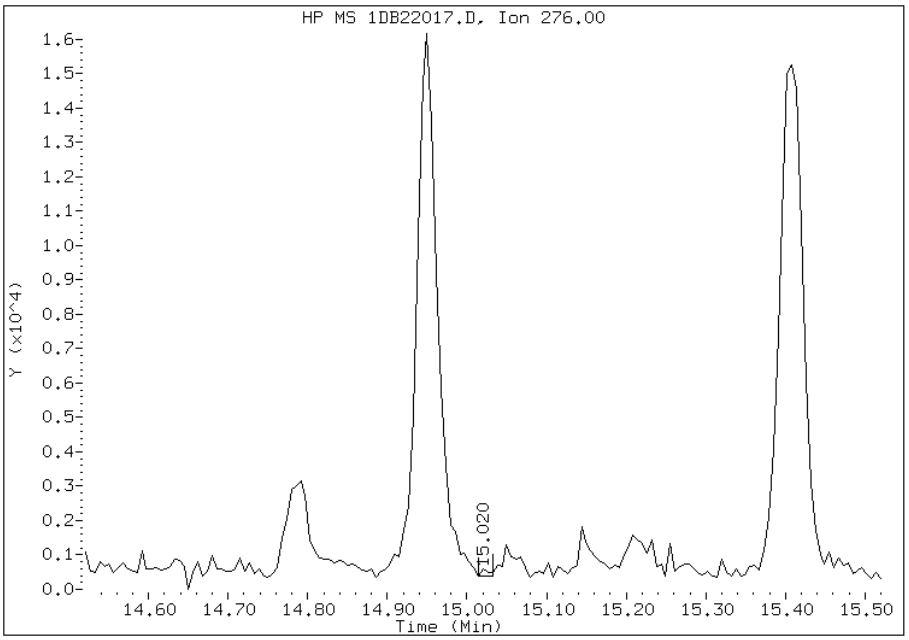
Processing Integration Results

RT: 15.02

Response: 169

Amount: 0

Conc: 0



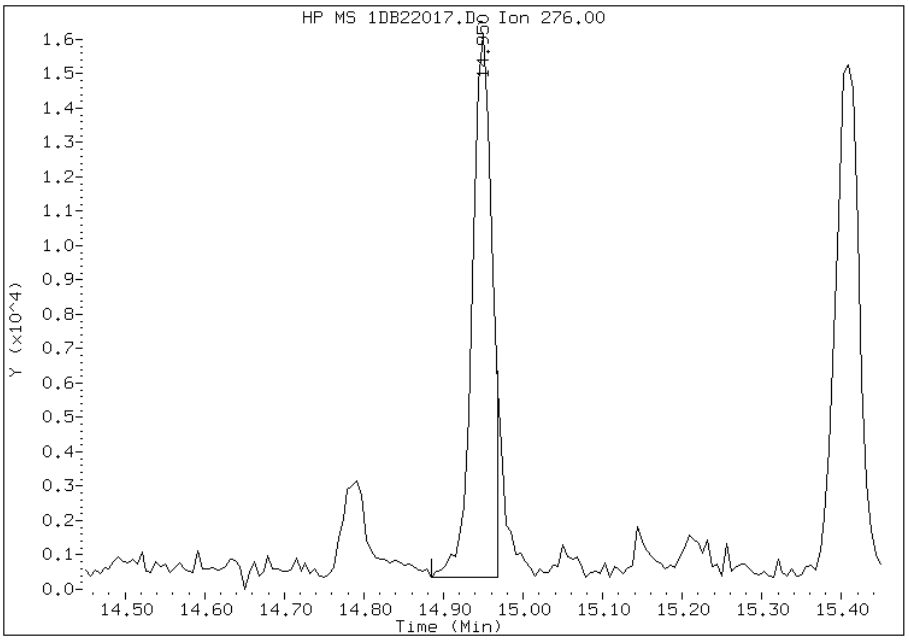
Manual Integration Results

RT: 14.95

Response: 27385

Amount: 0

Conc: 69



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 15:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161W-CS | Lab Sample ID: 680-87545-34

Matrix: Solid | Lab File ID: 1DB22018.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 13:00

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 14.96(g) | Date Analyzed: 02/22/2013 18:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 3.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	420	U	420	83
208-96-8	Acenaphthylene	22	J	170	21
120-12-7	Anthracene	36		35	17
56-55-3	Benzo[a]anthracene	110		33	16
50-32-8	Benzo[a]pyrene	89		43	22
205-99-2	Benzo[b]fluoranthene	190		51	25
191-24-2	Benzo[g,h,i]perylene	83		83	18
207-08-9	Benzo[k]fluoranthene	54		33	15
218-01-9	Chrysene	190		37	19
53-70-3	Dibenz(a,h)anthracene	27	J	83	17
206-44-0	Fluoranthene	160		83	17
86-73-7	Fluorene	83	U	83	17
193-39-5	Indeno[1,2,3-cd]pyrene	70	J	83	30
90-12-0	1-Methylnaphthalene	78	J	170	18
91-57-6	2-Methylnaphthalene	93	J	170	30
91-20-3	Naphthalene	110	J	170	18
85-01-8	Phenanthrene	150		33	16
129-00-0	Pyrene	140		83	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22018.D
Lab Smp Id: 680-87545-A-34-A Client Smp ID: FM0161W-CS
Inj Date : 22-FEB-2013 18:27
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-34-A
Misc Info : 680-87545-A-34-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 18
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	3.480	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.189	6.188	(1.000)	3300391	40.0000	
* 6 Acenaphthene-d10	164	7.857	7.856	(1.000)	1963107	40.0000	
* 9 Phenanthrene-d10	188	9.121	9.114	(1.000)	3178835	40.0000	
$ 13 o-Terphenyl	230	9.420	9.431	(1.033)	119132	2.42347	670
* 17 Chrysene-d12	240	11.459	11.464	(1.000)	3202553	40.0000	
* 22 Perylene-d12	264	13.345	13.344	(1.000)	3351175	40.0000	
2 Naphthalene	128	6.206	6.205	(1.003)	33506	0.37951	100
3 2-Methylnaphthalene	142	6.906	6.910	(1.116)	18928	0.33656	93
4 1-Methylnaphthalene	142	7.000	6.999	(1.131)	14887	0.28267	78
5 Acenaphthylene	152	7.728	7.733	(0.984)	6760	0.07811	22
8 Fluorene	166	8.322	8.326	(1.059)	2554	0.04142	11(Q)
10 Phenanthrene	178	9.132	9.137	(1.001)	48522	0.53772	150
11 Anthracene	178	9.174	9.184	(1.006)	11577	0.12823	36
12 Carbazole	167	9.309	9.313	(1.021)	7220	0.08946	25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.114	10.124	(1.109)	55760	0.59213	160
15 Pyrene	202	10.302	10.312	(0.899)	48506	0.48828	140
16 Benzo(a)anthracene	228	11.436	11.446	(0.998)	34256	0.39070	110
18 Chrysene	228	11.483	11.499	(1.002)	61450	0.67886	190
19 Benzo(b)fluoranthene	252	12.775	12.792	(0.957)	59803	0.69330	190(H)
20 Benzo(k)fluoranthene	252	12.805	12.839	(0.959)	17609	0.19497	54(H)
21 Benzo(a)pyrene	252	13.234	13.262	(0.992)	27440	0.32146	89(H)
23 Indeno(1,2,3-cd)pyrene	276	14.943	14.995	(1.120)	22864	0.25099	70(MH)
24 Dibenzo(a,h)anthracene	278	14.973	15.030	(1.122)	8288	0.09852	27(H)
25 Benzo(g,h,i)perylene	276	15.407	15.465	(1.155)	26096	0.30046	83(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22018.D

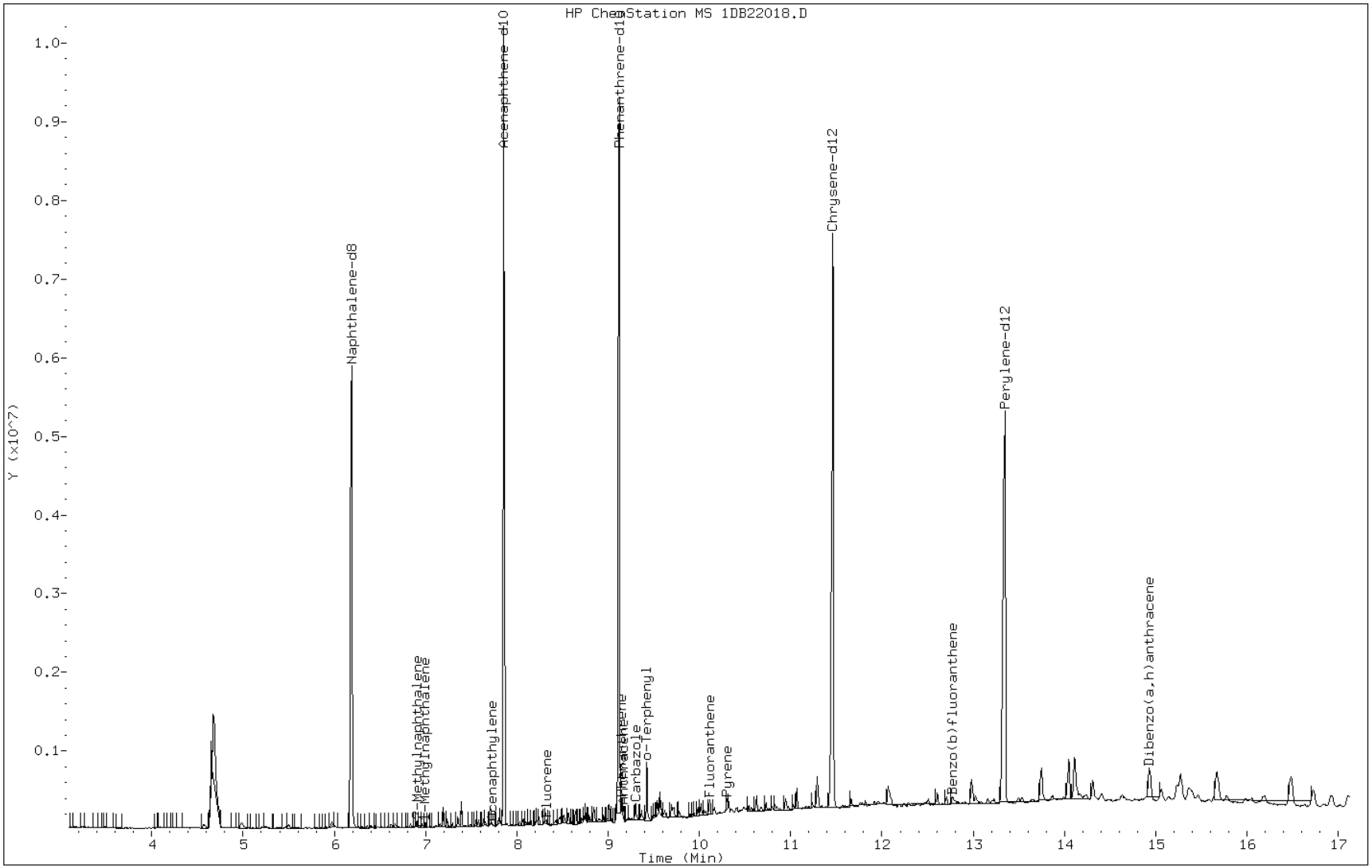
Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A

Operator: SCC



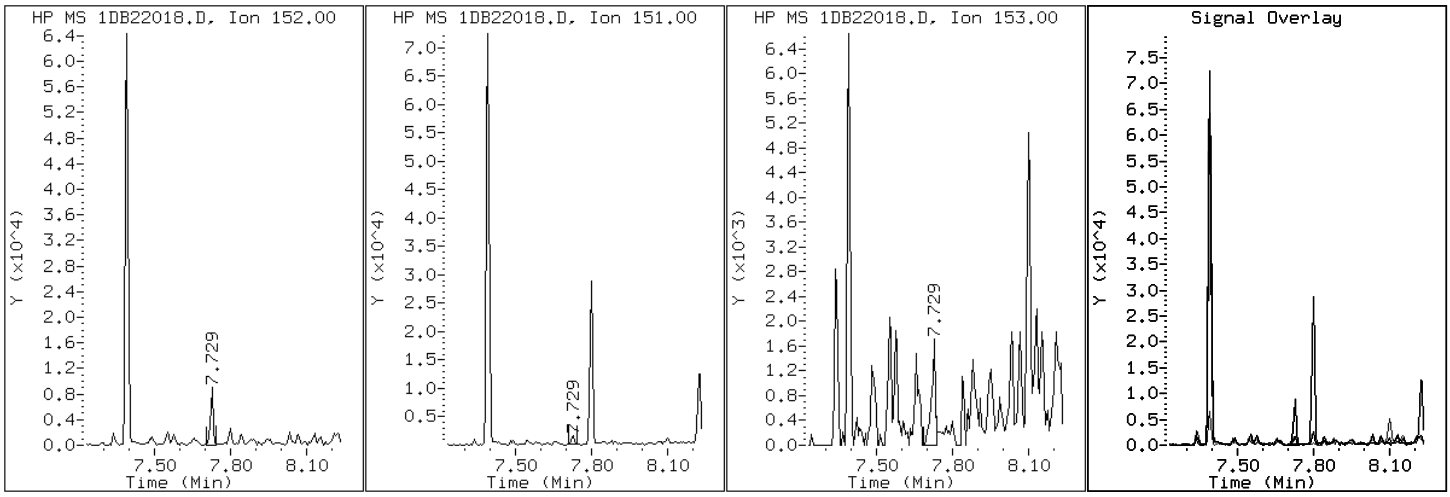
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

5 Acenaphthylene



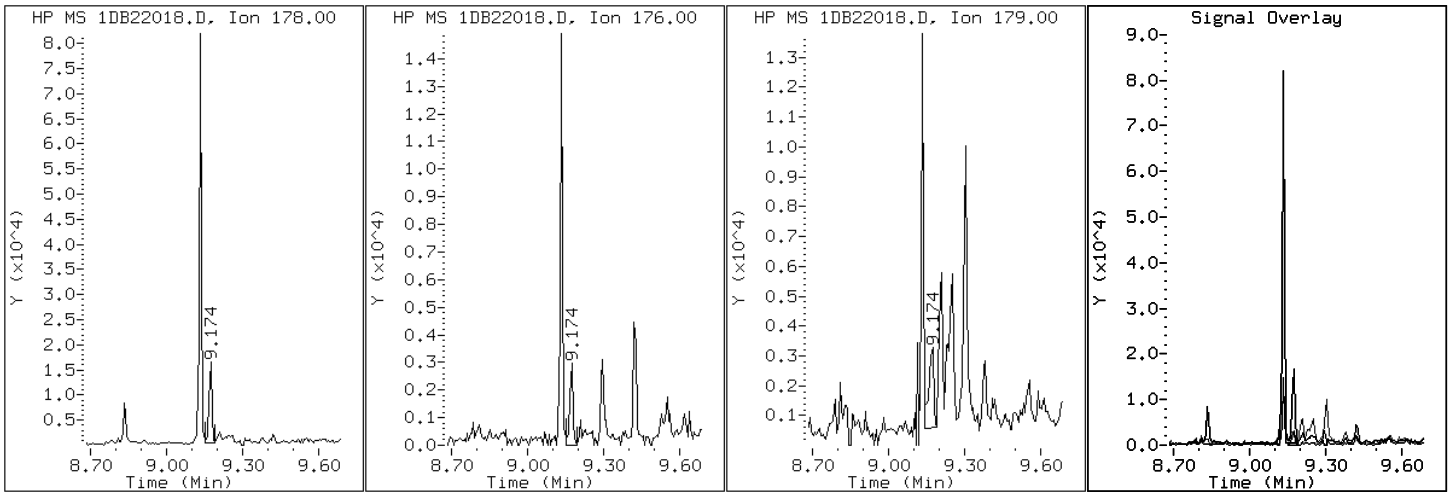
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

11 Anthracene



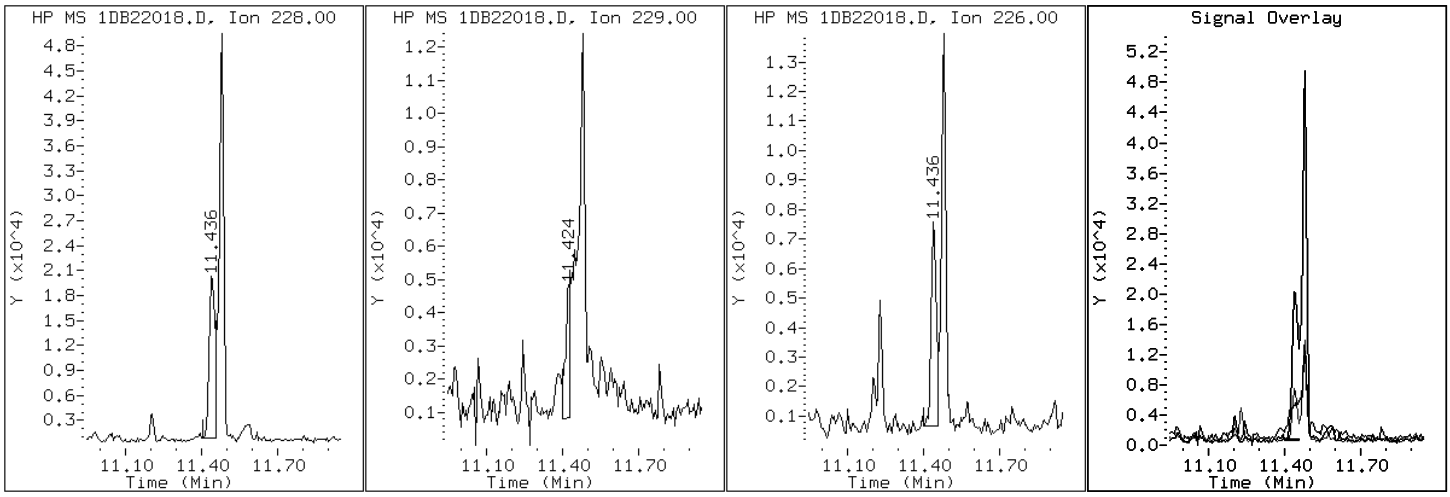
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

16 Benzo(a)anthracene



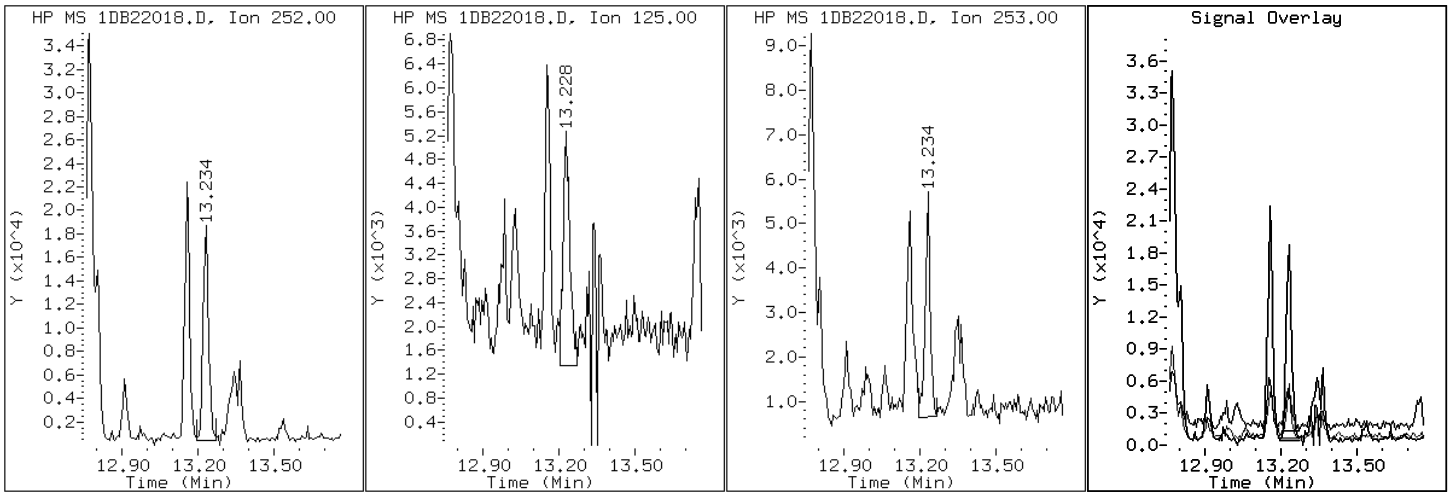
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

21 Benzo(a)pyrene



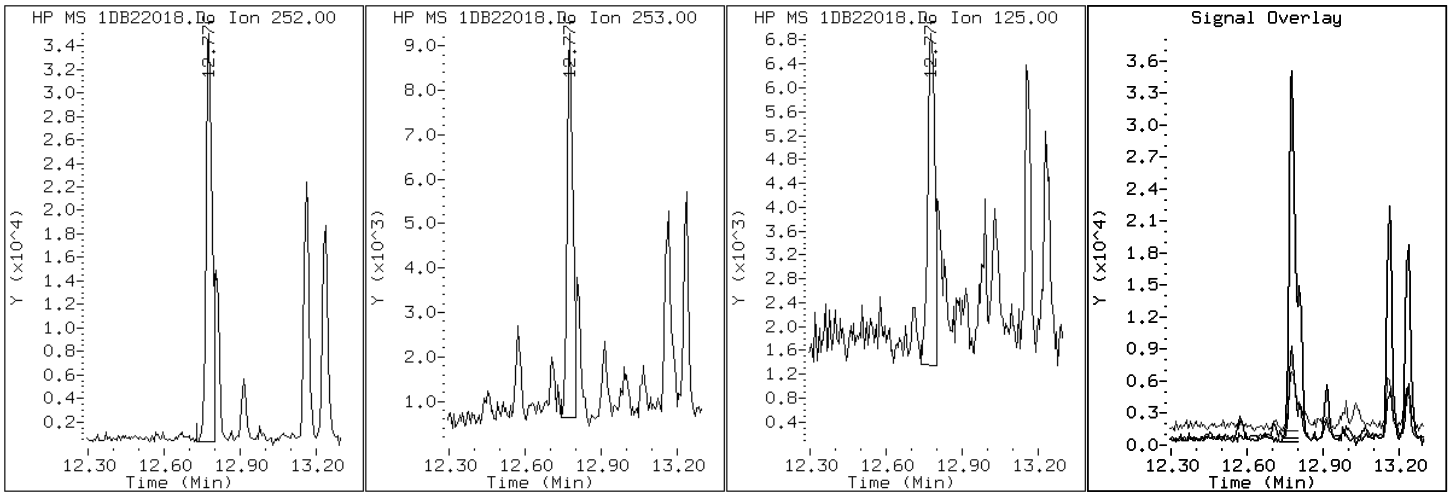
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

19 Benzo(b)fluoranthene



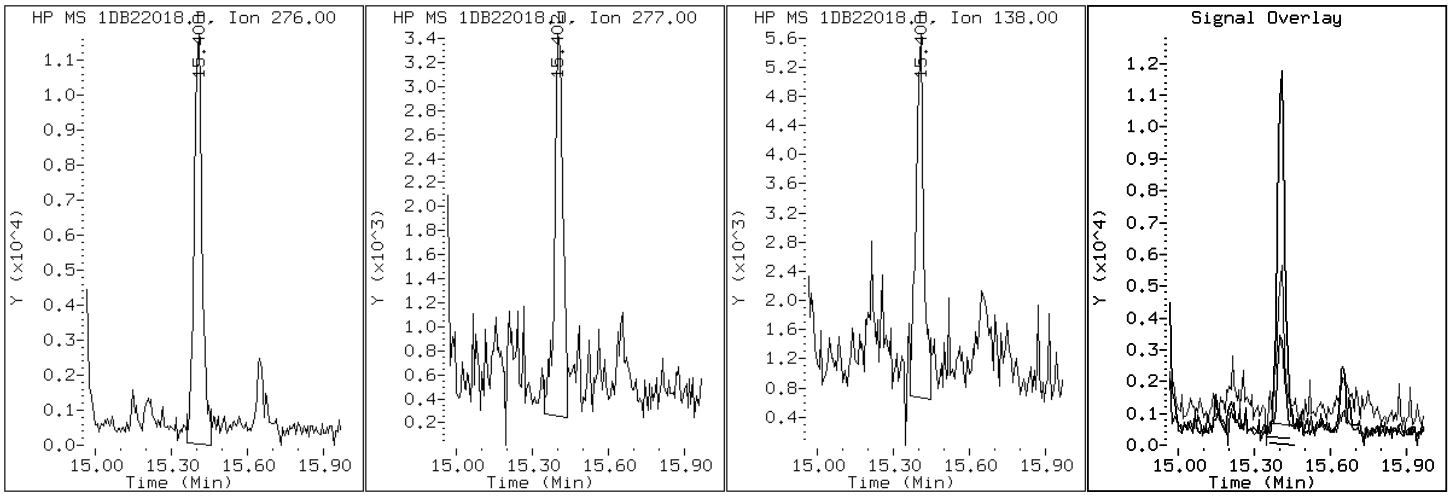
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

25 Benzo(g,h,i)perylene



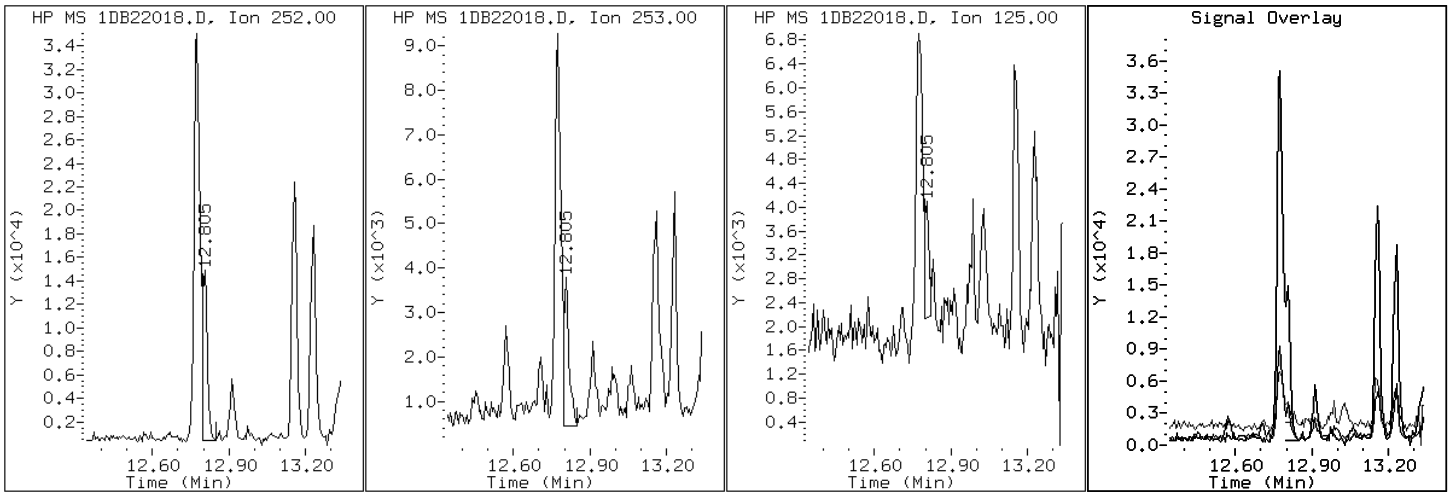
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

20 Benzo(k)fluoranthene



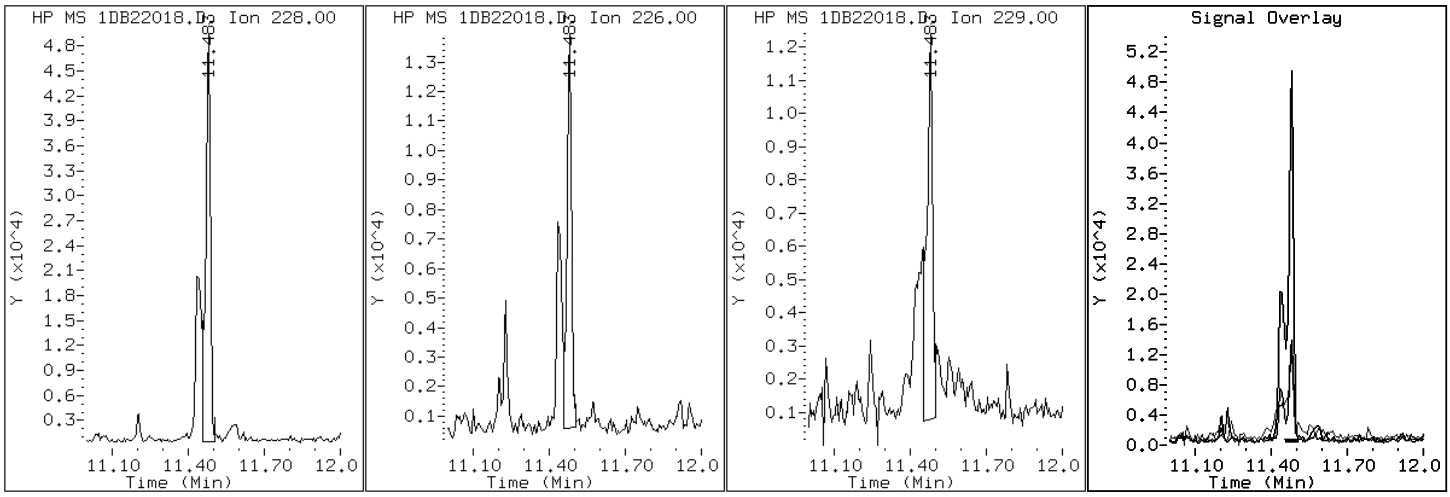
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

18 Chrysene



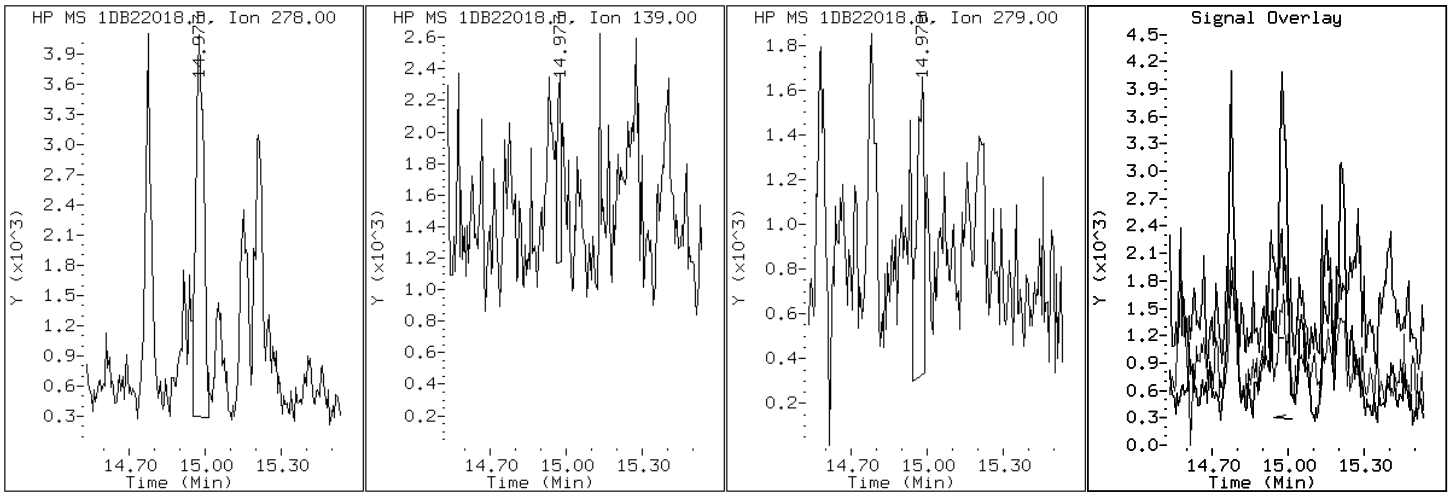
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

24 Dibenzo(a,h)anthracene



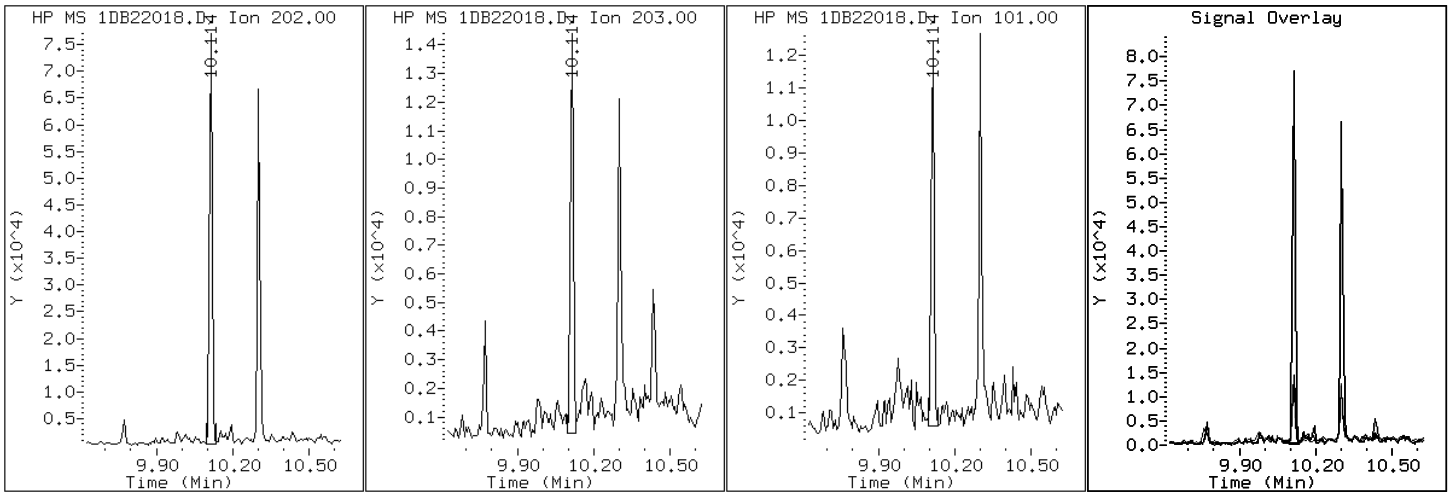
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

14 Fluoranthene



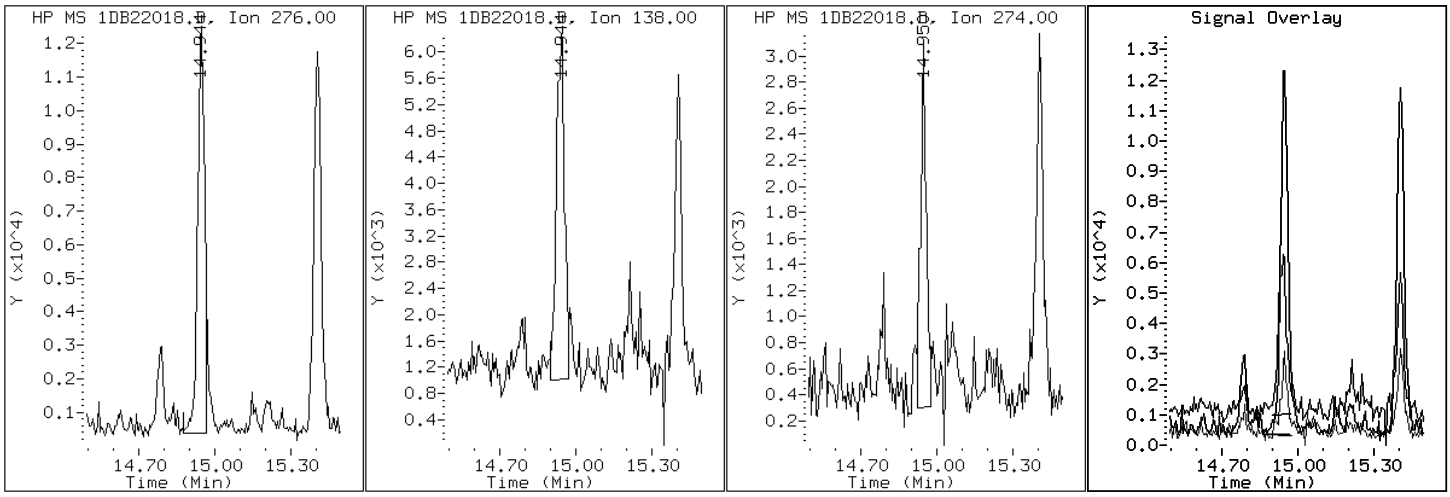
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



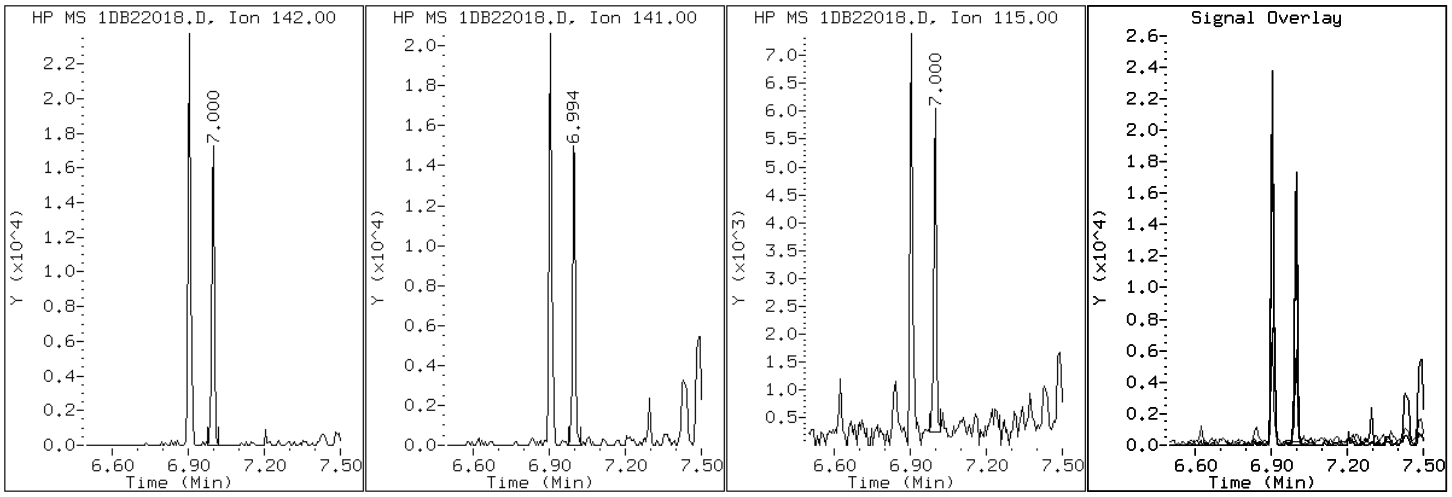
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

4 1-Methylnaphthalene



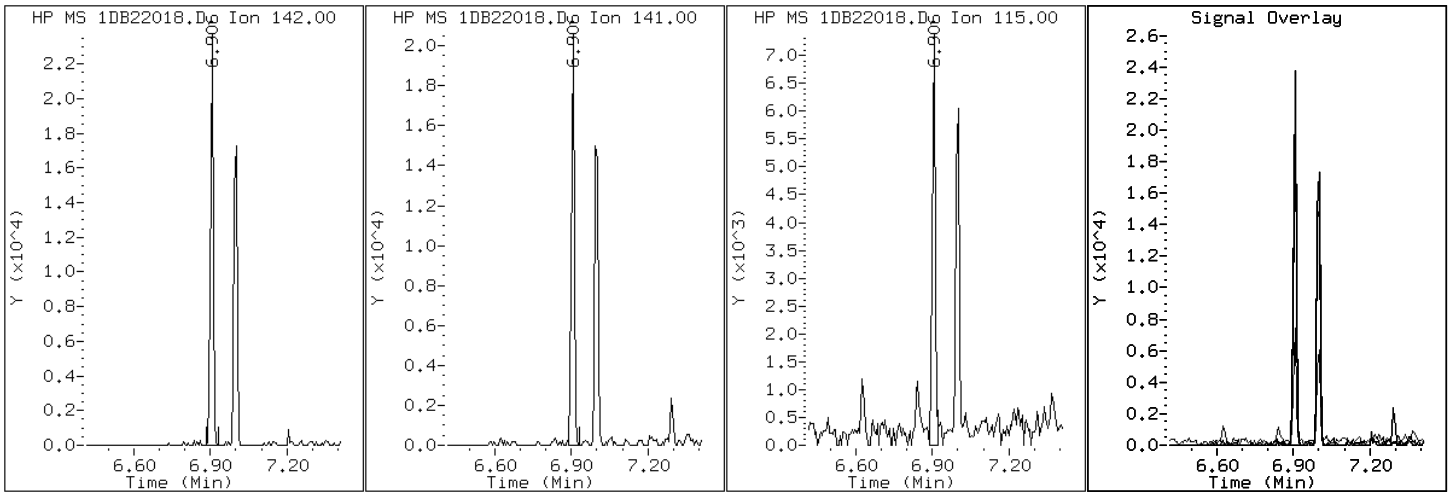
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

3 2-Methylnaphthalene



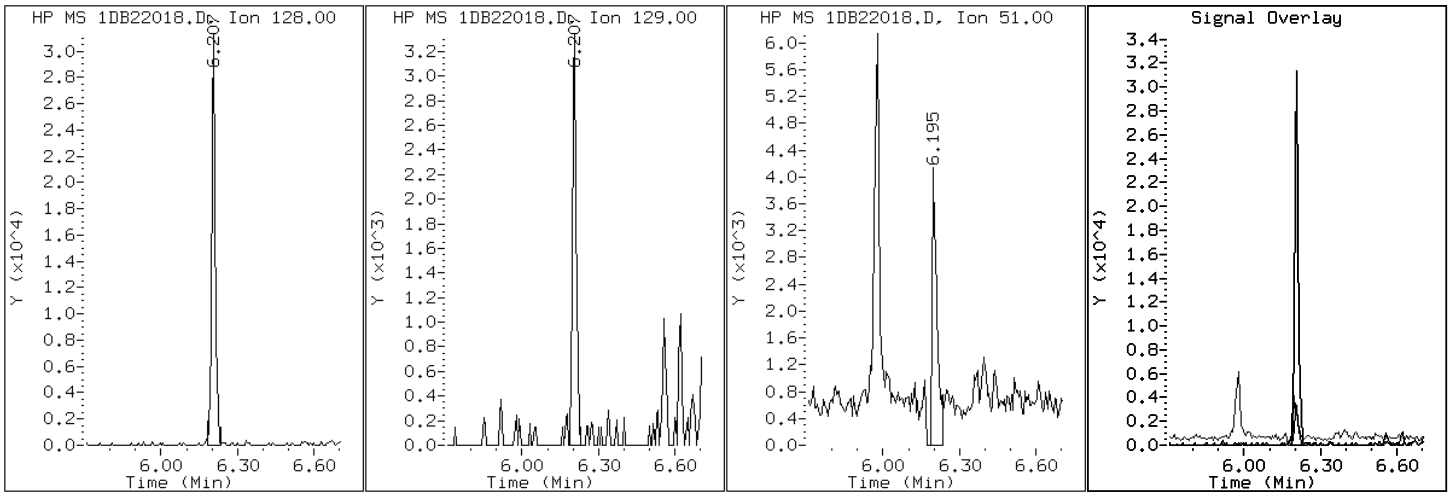
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

2 Naphthalene



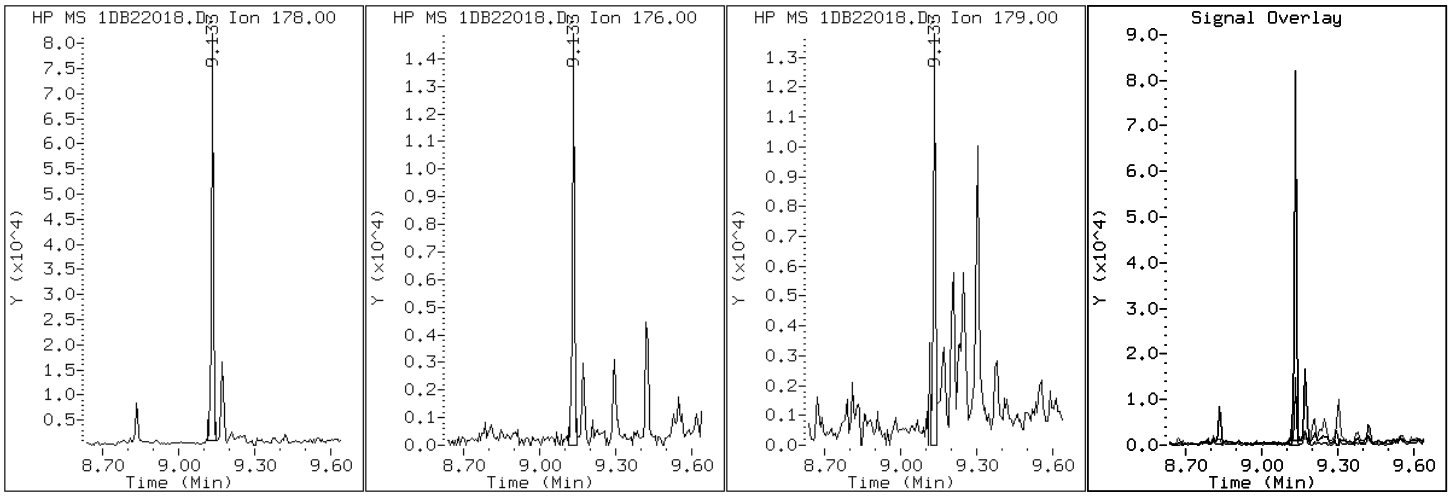
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

10 Phenanthrene



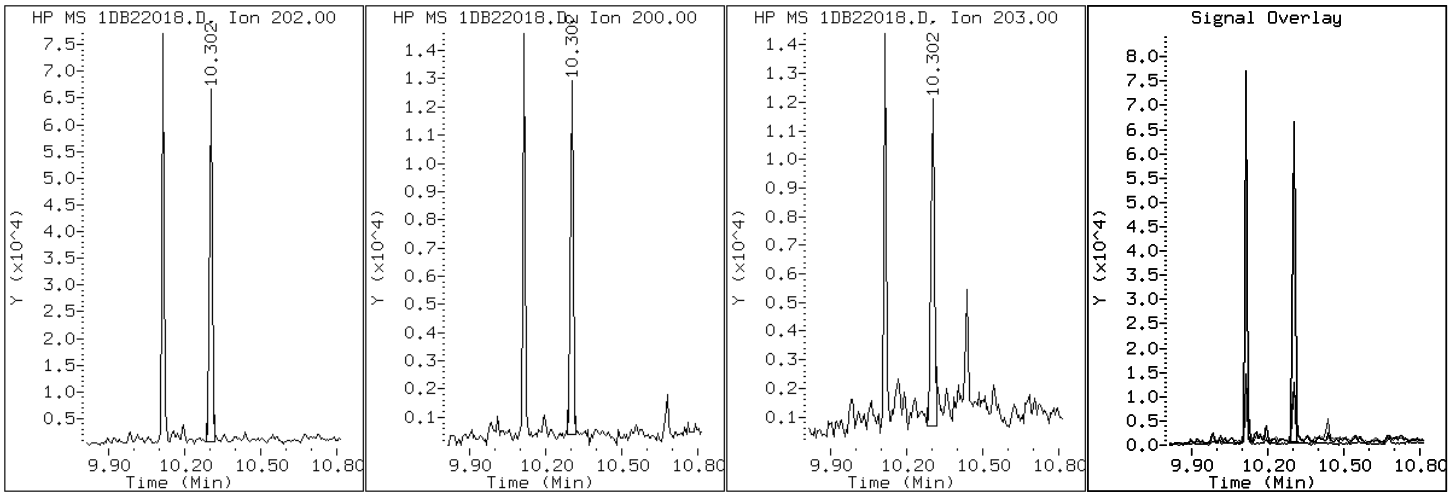
Data File: 1DB22018.D

Date: 22-FEB-2013 18:27

Client ID: FM0161W-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-34-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB22018.D
Inj. Date and Time: 22-FEB-2013 18:27
Instrument ID: BSMSD.i
Client ID: FM0161W-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

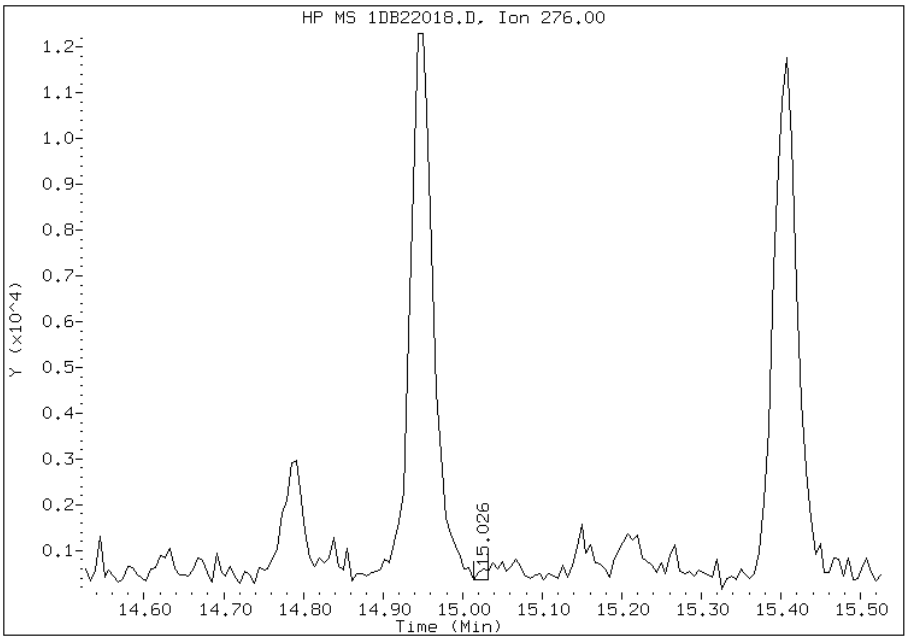
Processing Integration Results

RT: 15.03

Response: 196

Amount: 0

Conc: 1



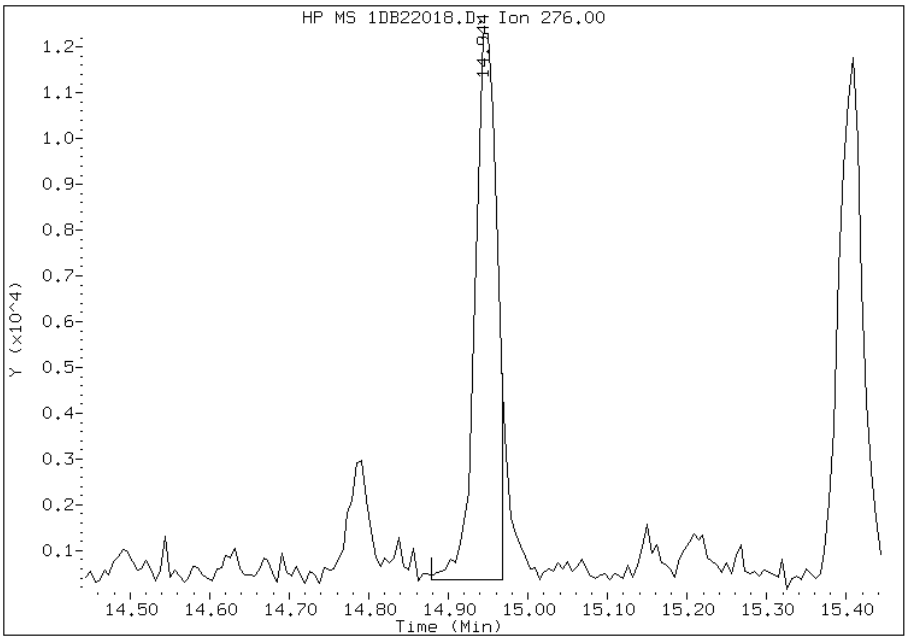
Manual Integration Results

RT: 14.94

Response: 22864

Amount: 0

Conc: 70



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 15:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161X-CS | Lab Sample ID: 680-87545-35

Matrix: Solid | Lab File ID: 1DB22021.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 13:06

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 15.07(g) | Date Analyzed: 02/22/2013 19:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430	U	430	85
208-96-8	Acenaphthylene	170	U	170	21
120-12-7	Anthracene	40		36	18
56-55-3	Benzo[a]anthracene	160		34	17
50-32-8	Benzo[a]pyrene	130		44	22
205-99-2	Benzo[b]fluoranthene	240		52	26
191-24-2	Benzo[g,h,i]perylene	97		85	19
207-08-9	Benzo[k]fluoranthene	66		34	15
218-01-9	Chrysene	200		38	19
53-70-3	Dibenz(a,h)anthracene	37	J	85	18
206-44-0	Fluoranthene	240		85	17
86-73-7	Fluorene	23	J	85	18
193-39-5	Indeno[1,2,3-cd]pyrene	89		85	30
90-12-0	1-Methylnaphthalene	84	J	170	19
91-57-6	2-Methylnaphthalene	110	J	170	30
91-20-3	Naphthalene	130	J	170	19
85-01-8	Phenanthrene	220		34	17
129-00-0	Pyrene	180		85	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22021.D
Lab Smp Id: 680-87545-A-35-A Client Smp ID: FM0161X-CS
Inj Date : 22-FEB-2013 19:34
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-35-A
Misc Info : 680-87545-A-35-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 21
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	6.762	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.186	6.188	(1.000)	3328006	40.0000	
* 6 Acenaphthene-d10	164	7.860	7.856	(1.000)	2006024	40.0000	
* 9 Phenanthrene-d10	188	9.118	9.114	(1.000)	3288050	40.0000	
$ 13 o-Terphenyl	230	9.423	9.431	(1.034)	123711	2.43303	690
* 17 Chrysene-d12	240	11.462	11.464	(1.000)	3253074	40.0000	
* 22 Perylene-d12	264	13.348	13.344	(1.000)	3426169	40.0000	
2 Naphthalene	128	6.204	6.205	(1.003)	40975	0.46026	130
3 2-Methylnaphthalene	142	6.903	6.910	(1.116)	21379	0.37698	110
4 1-Methylnaphthalene	142	6.997	6.999	(1.131)	15656	0.29481	84
5 Acenaphthylene	152	7.725	7.733	(0.983)	5046	0.05706	16
8 Fluorene	166	8.325	8.326	(1.059)	5010	0.07952	23
10 Phenanthrene	178	9.135	9.137	(1.002)	72068	0.77213	220
11 Anthracene	178	9.171	9.184	(1.006)	13028	0.13951	40
12 Carbazole	167	9.312	9.313	(1.021)	11119	0.13319	38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.117	10.124	(1.110)	81237	0.83402	240
15 Pyrene	202	10.305	10.312	(0.899)	64118	0.63541	180
16 Benzo(a)anthracene	228	11.444	11.446	(0.998)	48943	0.54954	160
18 Chrysene	228	11.480	11.499	(1.002)	64473	0.70120	200
19 Benzo(b)fluoranthene	252	12.772	12.792	(0.957)	73002	0.82779	240(H)
20 Benzo(k)fluoranthene	252	12.808	12.839	(0.960)	21322	0.23092	66(H)
21 Benzo(a)pyrene	252	13.236	13.262	(0.992)	39610	0.45388	130
23 Indeno(1,2,3-cd)pyrene	276	14.952	14.995	(1.120)	29087	0.31232	89(QMH)
24 Dibenzo(a,h)anthracene	278	14.981	15.030	(1.122)	11118	0.12926	37(H)
25 Benzo(g,h,i)perylene	276	15.410	15.465	(1.154)	30190	0.33999	97(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22021.D

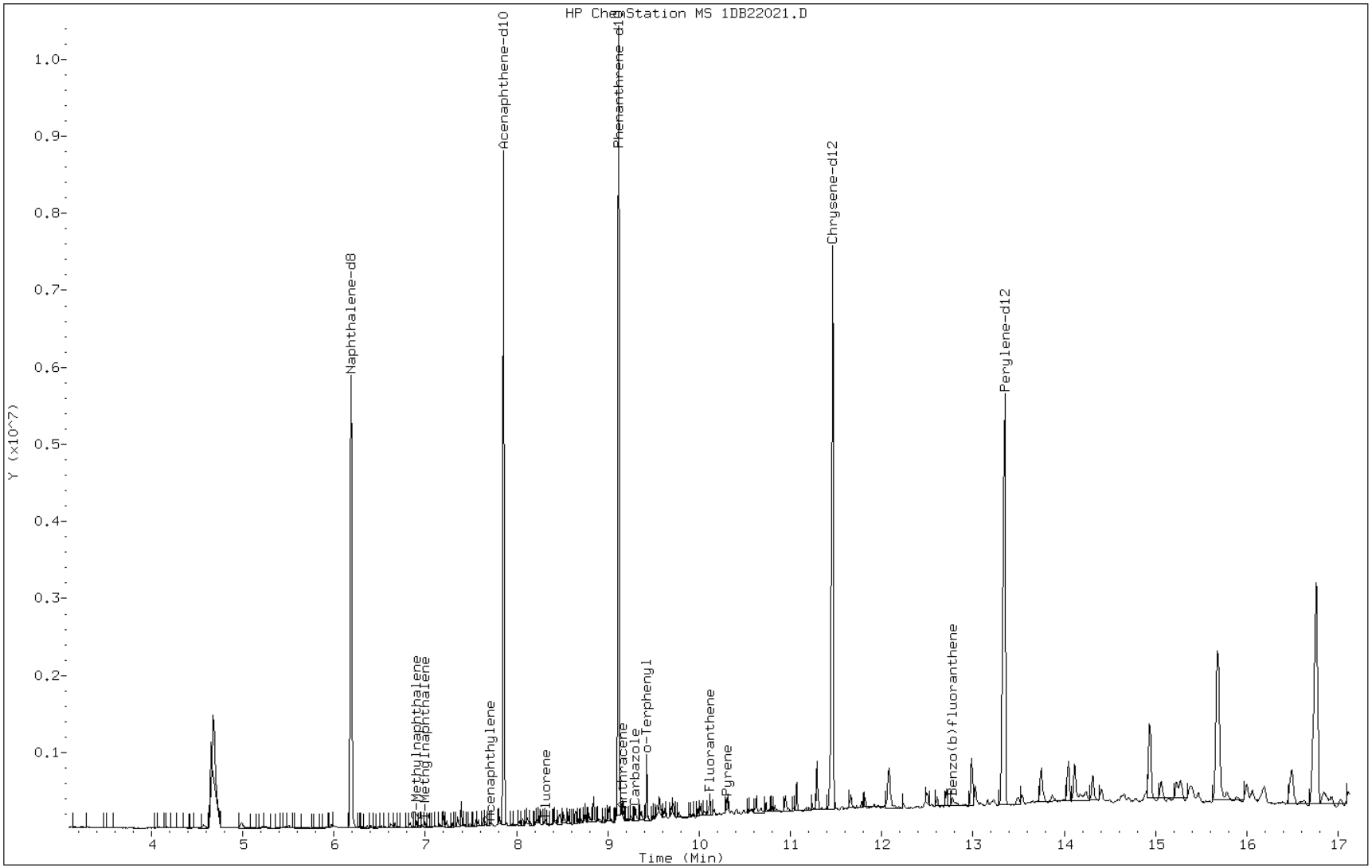
Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A

Operator: SCC



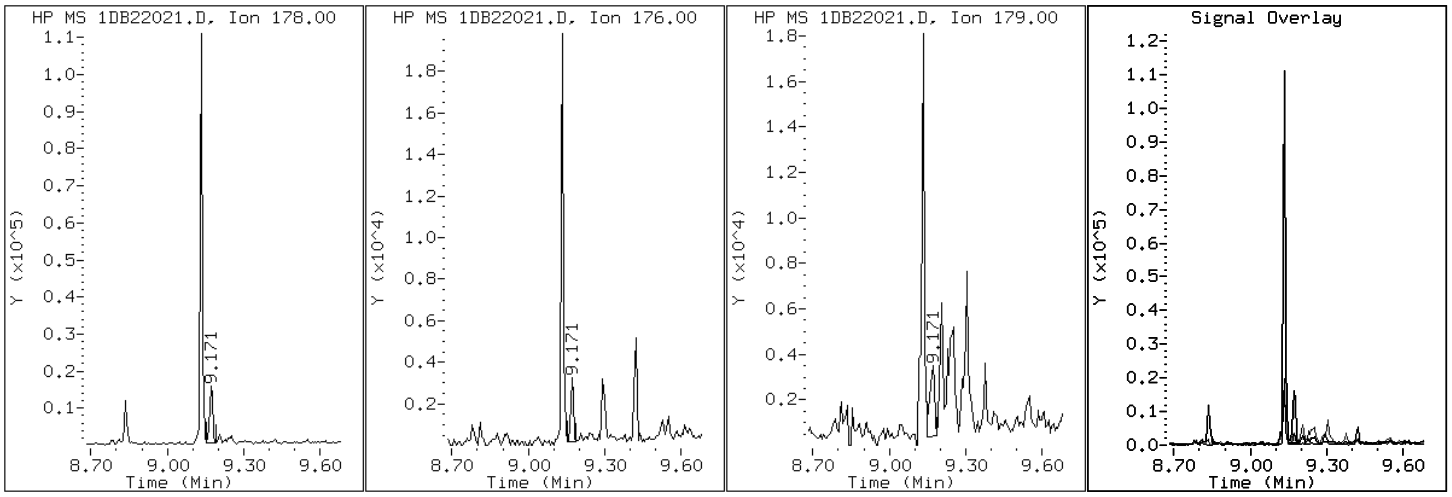
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

11 Anthracene



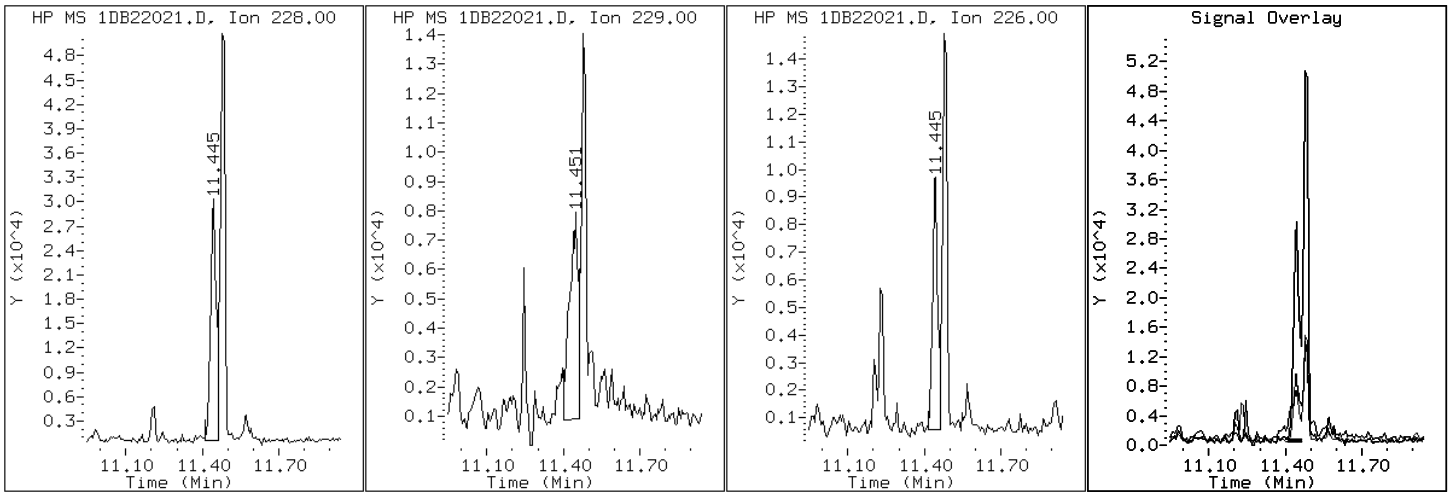
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

16 Benzo(a)anthracene



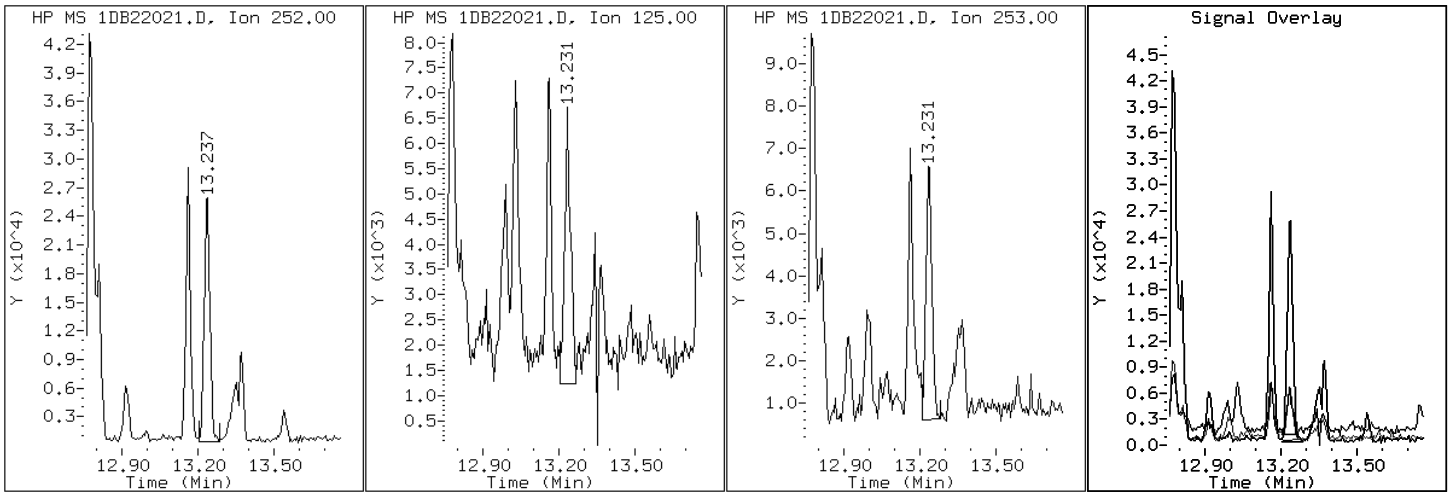
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

21 Benzo(a)pyrene



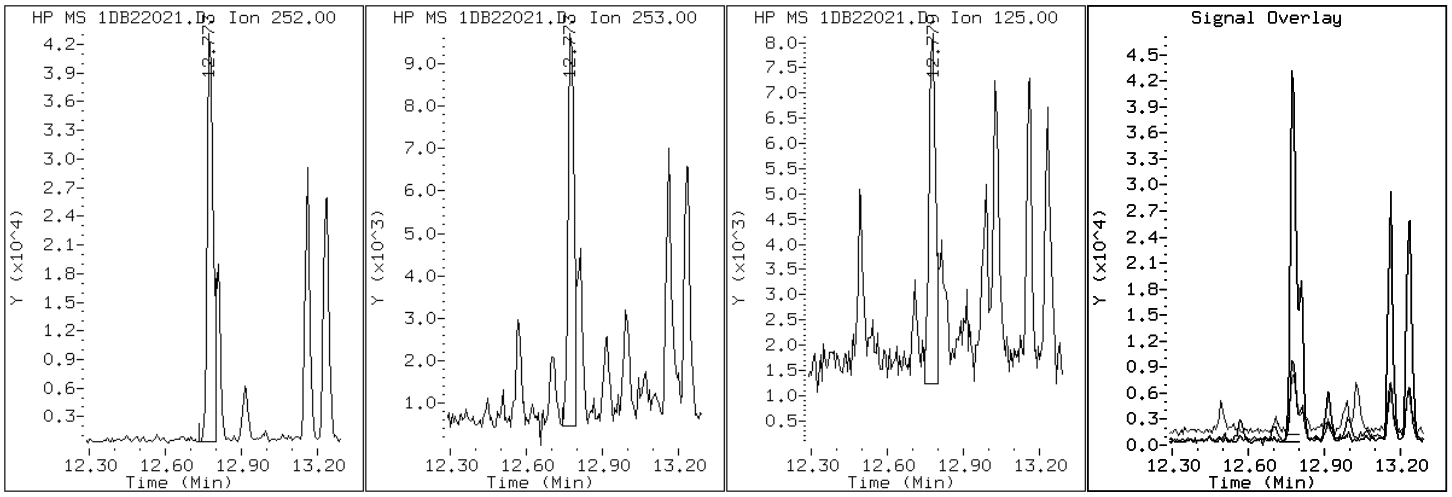
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

19 Benzo(b)fluoranthene



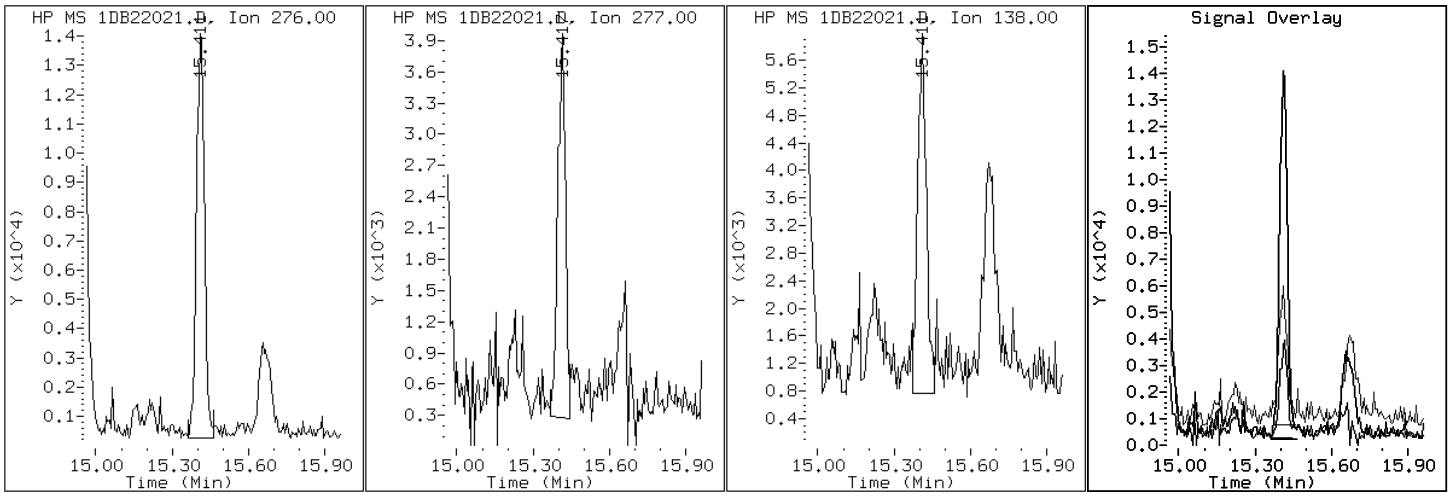
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

25 Benzo(g,h,i)perylene



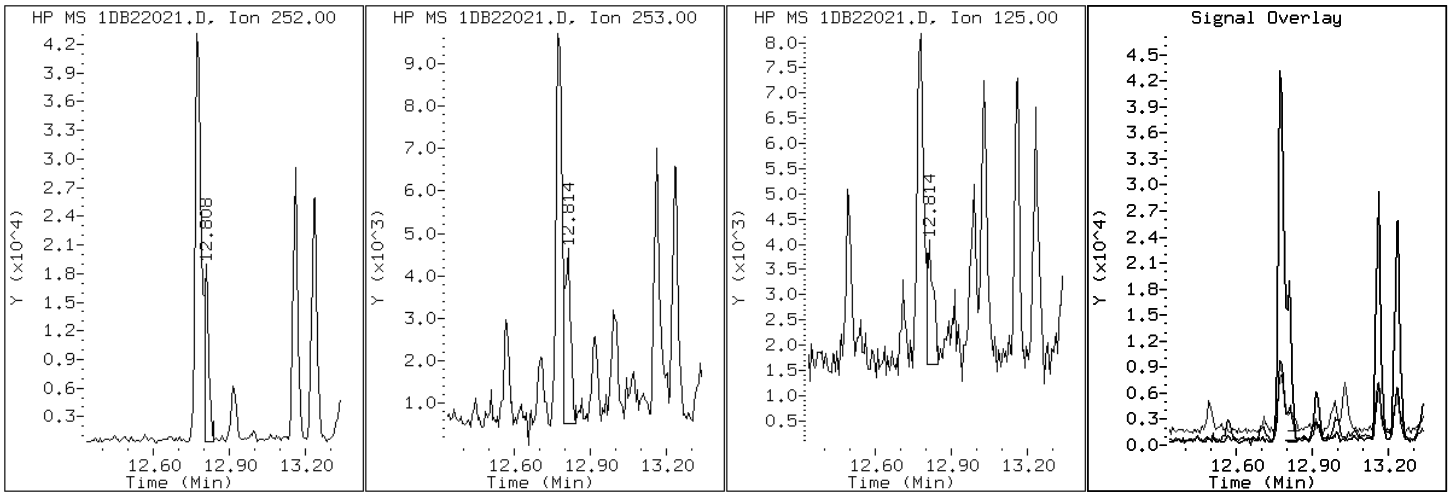
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

20 Benzo(k)fluoranthene



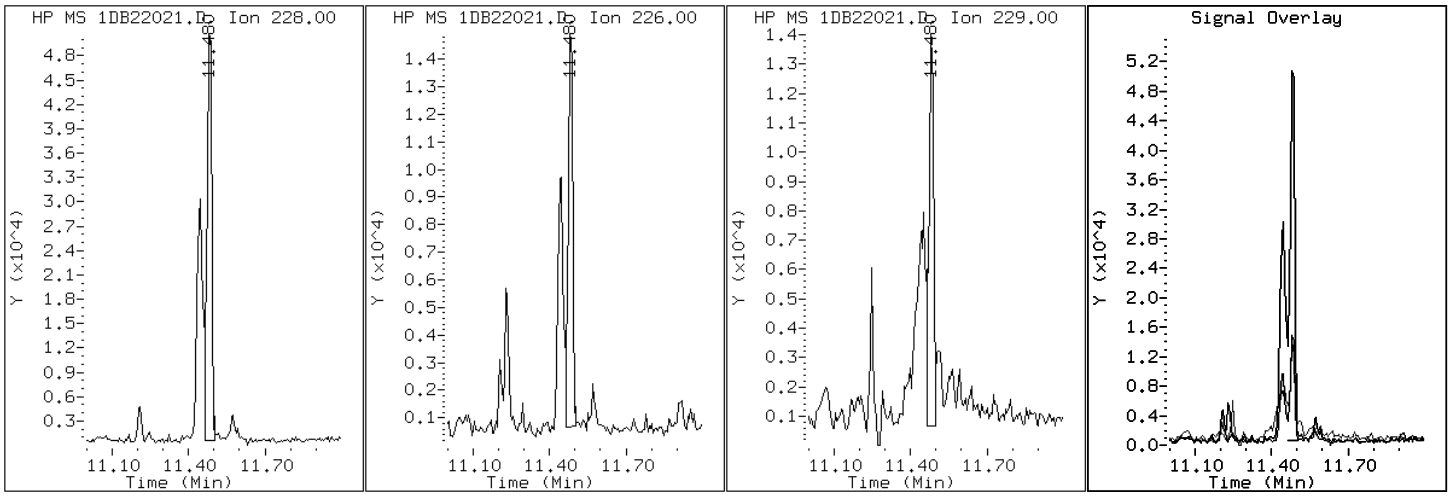
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

18 Chrysene



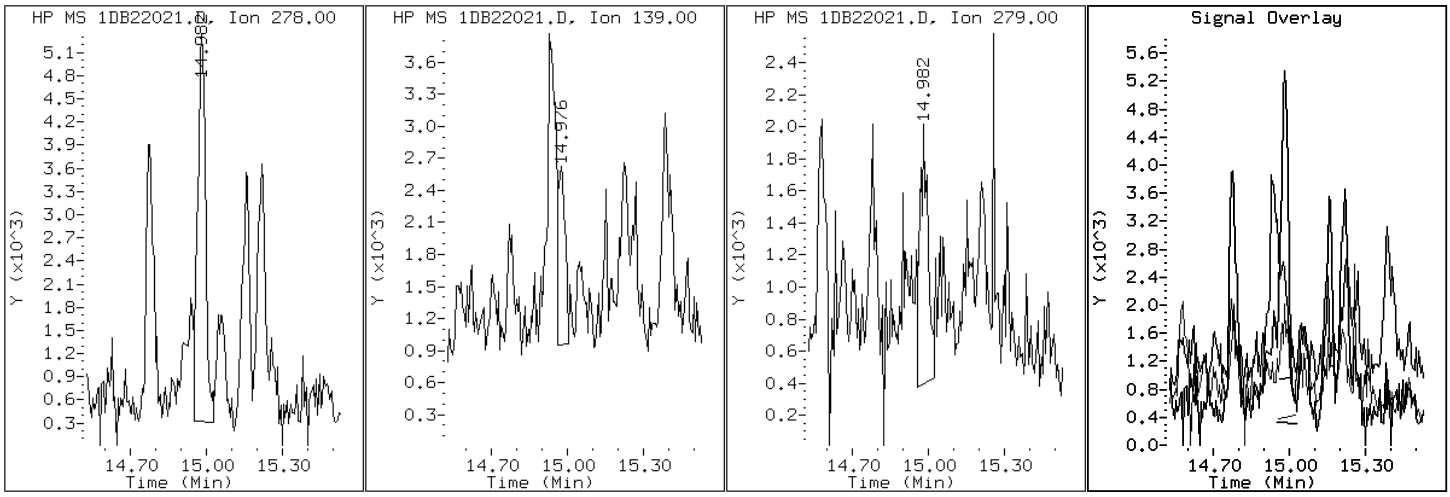
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

24 Dibenzo(a,h)anthracene



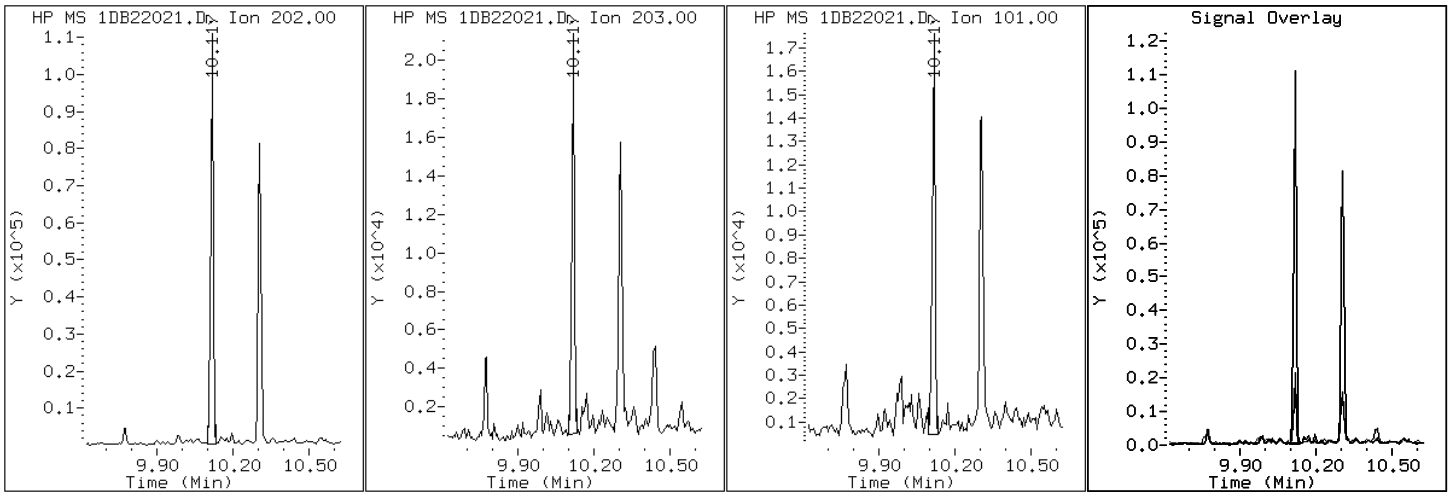
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

14 Fluoranthene



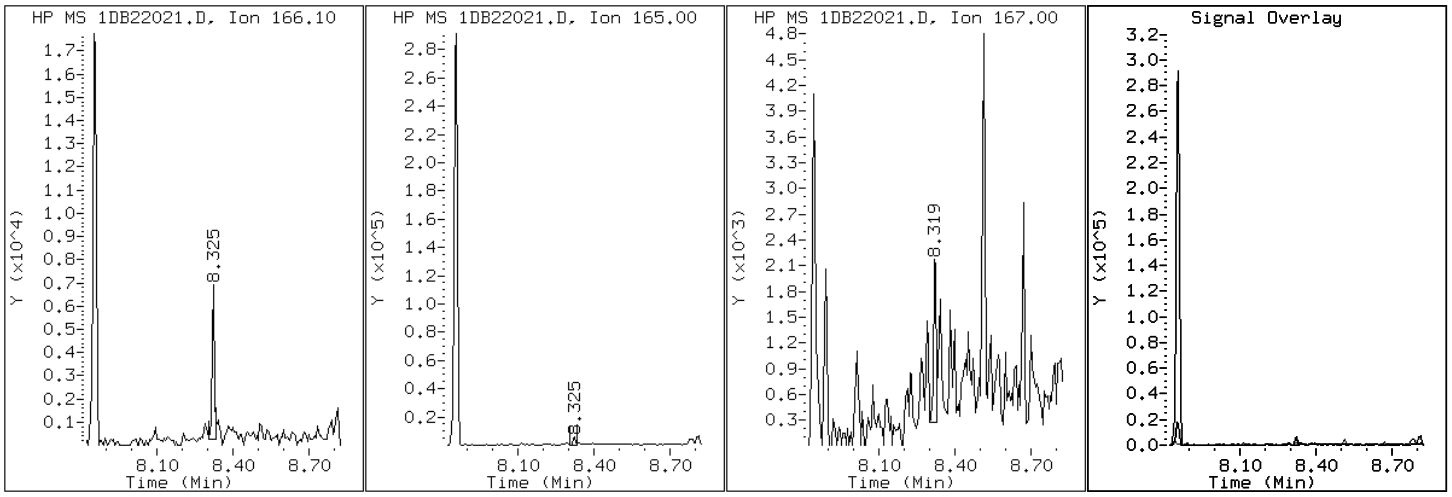
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

8 Fluorene



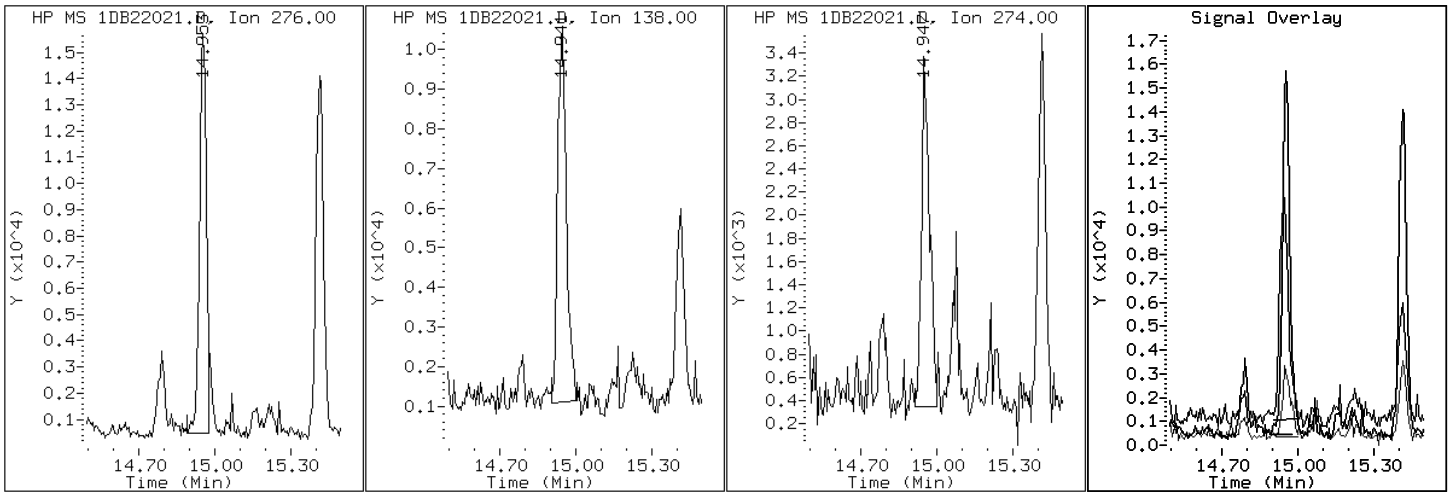
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



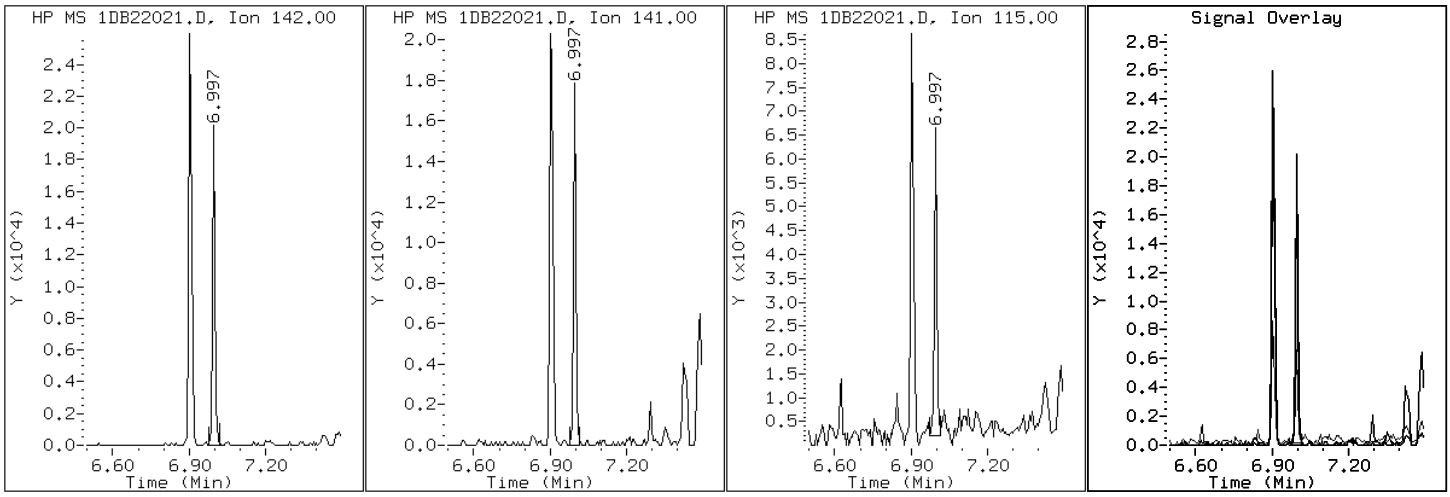
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

4 1-Methylnaphthalene



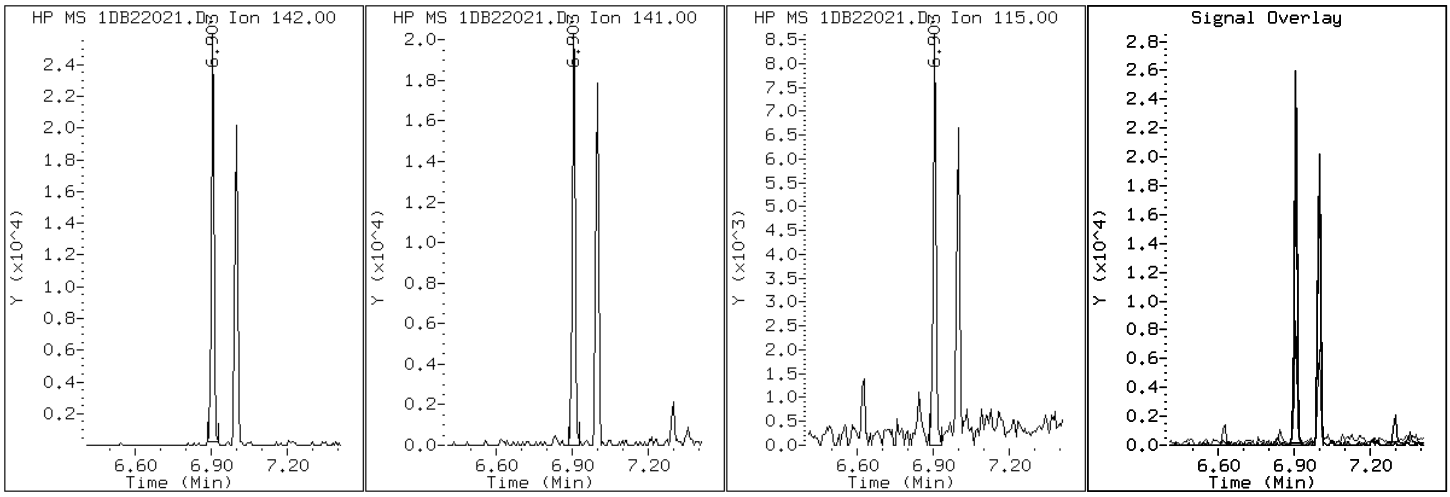
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

3 2-Methylnaphthalene



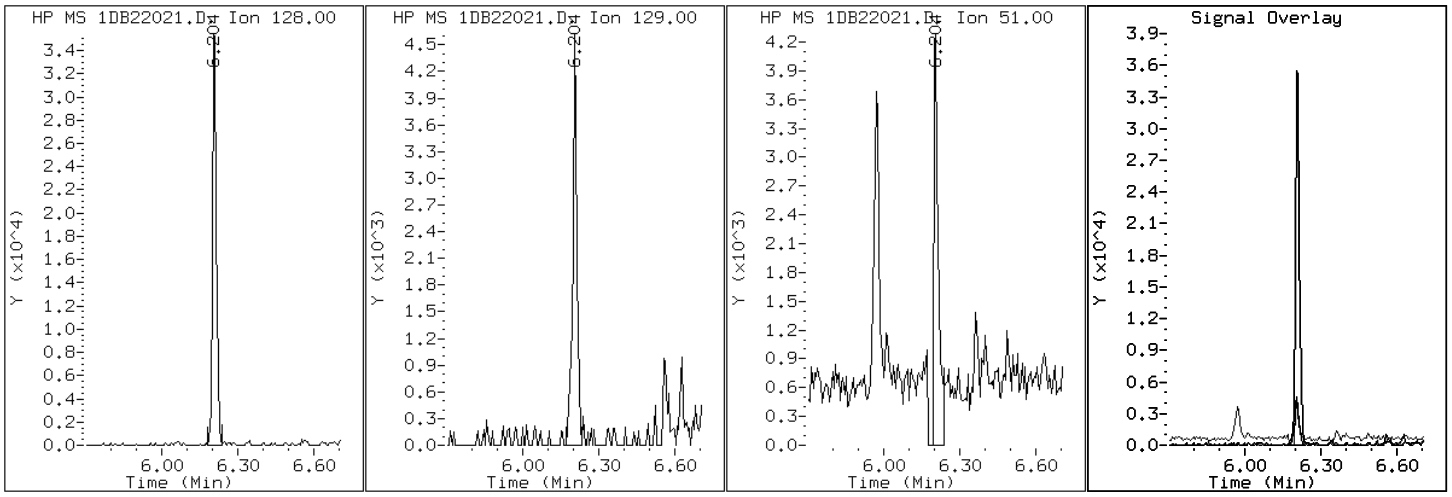
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

2 Naphthalene



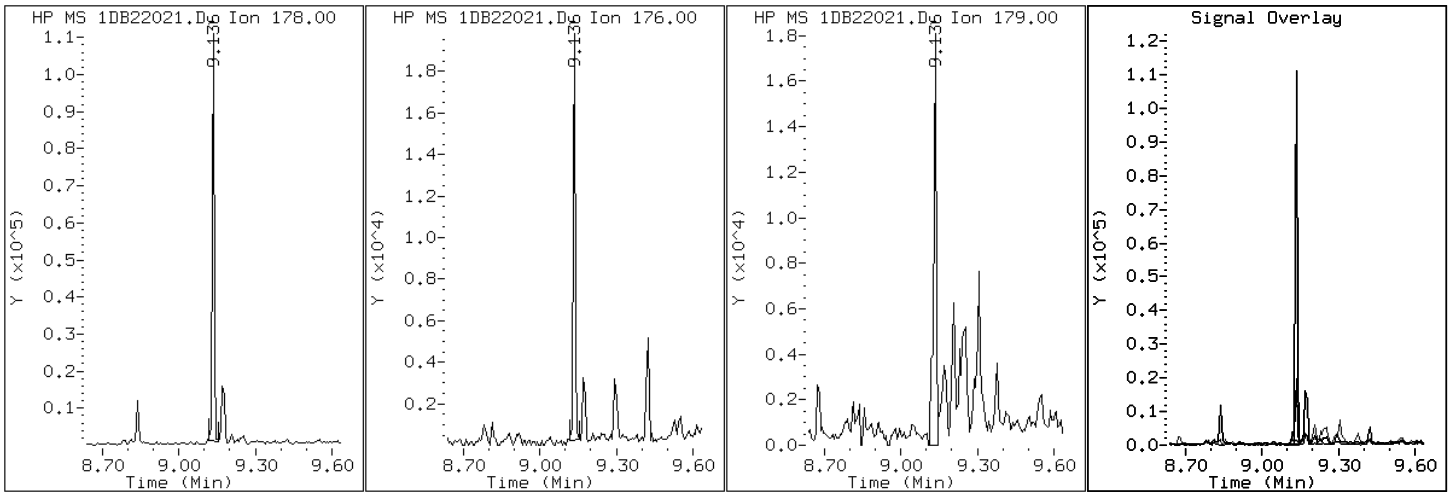
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

10 Phenanthrene



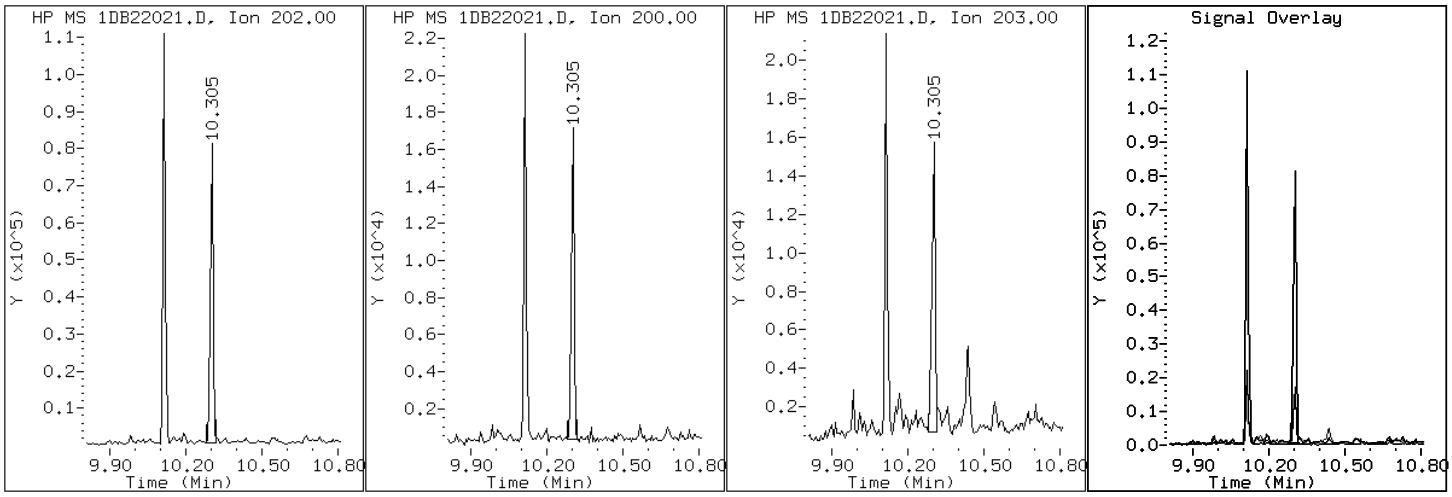
Data File: 1DB22021.D

Date: 22-FEB-2013 19:34

Client ID: FM0161X-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-35-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB22021.D
Inj. Date and Time: 22-FEB-2013 19:34
Instrument ID: BSMSD.i
Client ID: FM0161X-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

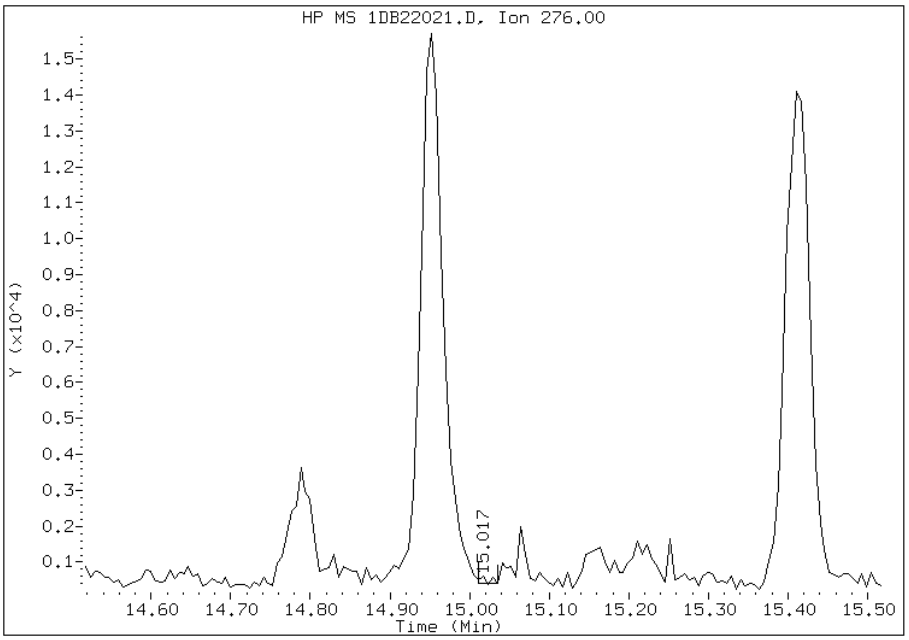
Processing Integration Results

RT: 15.02

Response: 143

Amount: 0

Conc: 0



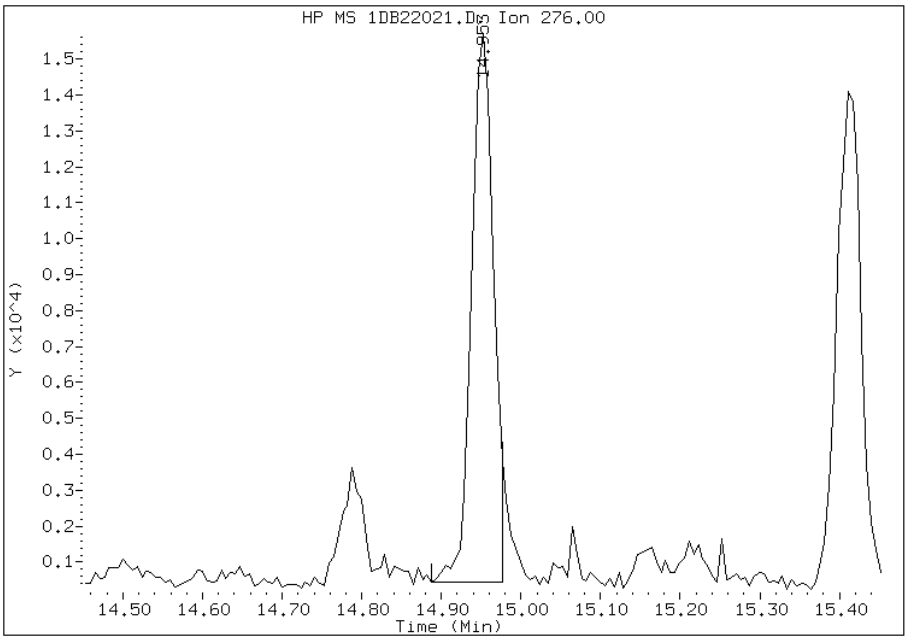
Manual Integration Results

RT: 14.95

Response: 29087

Amount: 0

Conc: 89



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 15:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161Y-CS | Lab Sample ID: 680-87545-36

Matrix: Solid | Lab File ID: 1DB22022.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 13:10

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 15.23(g) | Date Analyzed: 02/22/2013 19:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	27	J	210	27
120-12-7	Anthracene	54		45	22
56-55-3	Benzo[a]anthracene	210		42	21
50-32-8	Benzo[a]pyrene	150		55	28
205-99-2	Benzo[b]fluoranthene	300		65	32
191-24-2	Benzo[g,h,i]perylene	130		110	23
207-08-9	Benzo[k]fluoranthene	77		42	19
218-01-9	Chrysene	330		48	24
53-70-3	Dibenz(a,h)anthracene	56	J	110	22
206-44-0	Fluoranthene	300		110	21
86-73-7	Fluorene	42	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	110		110	38
90-12-0	1-Methylnaphthalene	290		210	23
91-57-6	2-Methylnaphthalene	340		210	38
91-20-3	Naphthalene	350		210	23
85-01-8	Phenanthrene	440		42	21
129-00-0	Pyrene	220		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22022.D
Lab Smp Id: 680-87545-A-36-A Client Smp ID: FM0161Y-CS
Inj Date : 22-FEB-2013 19:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-36-A
Misc Info : 680-87545-A-36-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 22
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.230	Weight Extracted
M	25.834	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.186	6.188	(1.000)	3271921	40.0000	
* 6 Acenaphthene-d10	164	7.861	7.856	(1.000)	1974289	40.0000	
* 9 Phenanthrene-d10	188	9.118	9.114	(1.000)	3213476	40.0000	
$ 13 o-Terphenyl	230	9.424	9.431	(1.034)	110044	2.21447	780
* 17 Chrysene-d12	240	11.463	11.464	(1.000)	3182758	40.0000	
* 22 Perylene-d12	264	13.349	13.344	(1.000)	3358420	40.0000	
2 Naphthalene	128	6.204	6.205	(1.003)	86806	0.99177	350
3 2-Methylnaphthalene	142	6.903	6.910	(1.116)	53130	0.95292	340
4 1-Methylnaphthalene	142	6.997	6.999	(1.131)	42379	0.81169	290
5 Acenaphthylene	152	7.726	7.733	(0.983)	6685	0.07680	27
8 Fluorene	166	8.325	8.326	(1.059)	7318	0.11802	42
10 Phenanthrene	178	9.136	9.137	(1.002)	113659	1.24599	440
11 Anthracene	178	9.171	9.184	(1.006)	13868	0.15195	54
12 Carbazole	167	9.312	9.313	(1.021)	9700	0.11889	42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.117	10.124	(1.110)	79585	0.83602	300
15 Pyrene	202	10.305	10.312	(0.899)	61976	0.62776	220
16 Benzo(a)anthracene	228	11.439	11.446	(0.998)	50964	0.58487	210
18 Chrysene	228	11.486	11.499	(1.002)	82822	0.92066	330
19 Benzo(b)fluoranthene	252	12.773	12.792	(0.957)	73824	0.85400	300(H)
20 Benzo(k)fluoranthene	252	12.808	12.839	(0.960)	19732	0.21801	77(H)
21 Benzo(a)pyrene	252	13.231	13.262	(0.991)	36697	0.42898	150(H)
23 Indeno(1,2,3-cd)pyrene	276	14.953	14.995	(1.120)	28233	0.30926	110(MH)
24 Dibenzo(a,h)anthracene	278	14.976	15.030	(1.122)	13227	0.15689	56(H)
25 Benzo(g,h,i)perylene	276	15.411	15.465	(1.154)	31767	0.36497	130(H)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22022.D

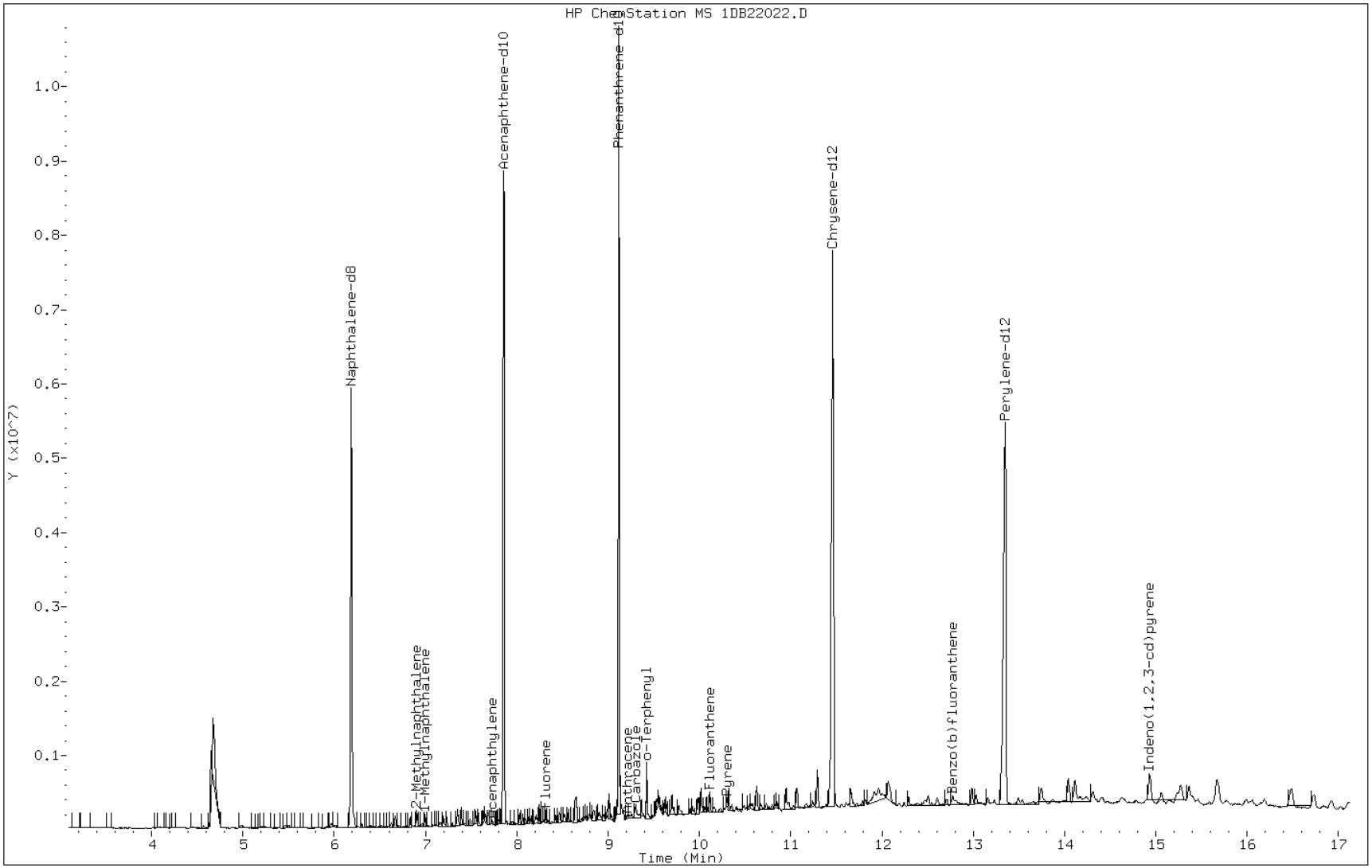
Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A

Operator: SCC



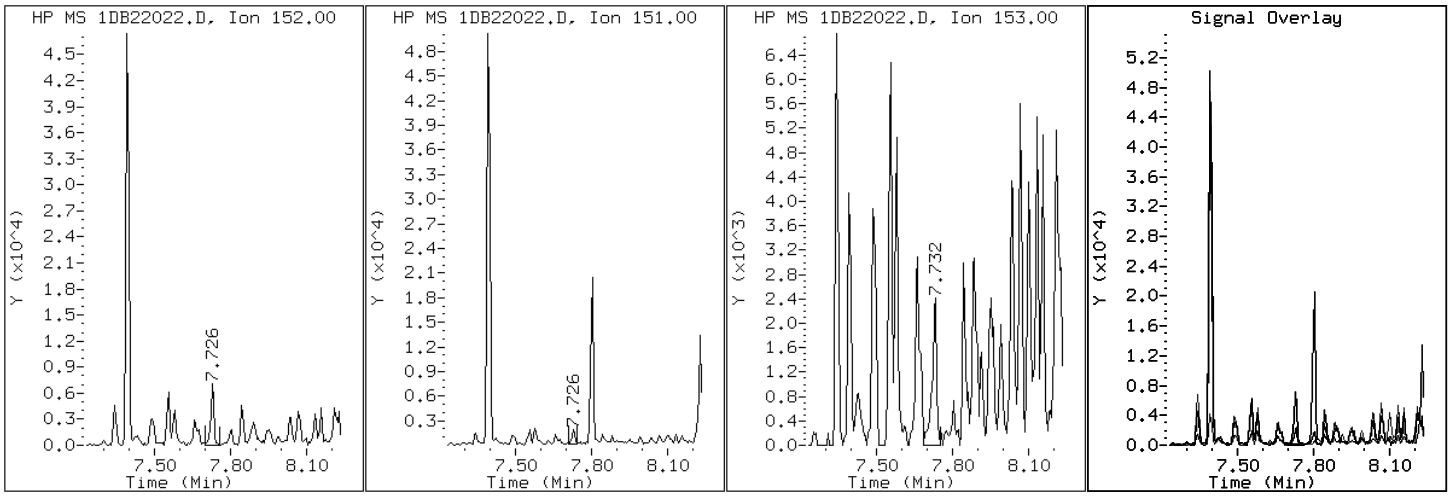
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

5 Acenaphthylene



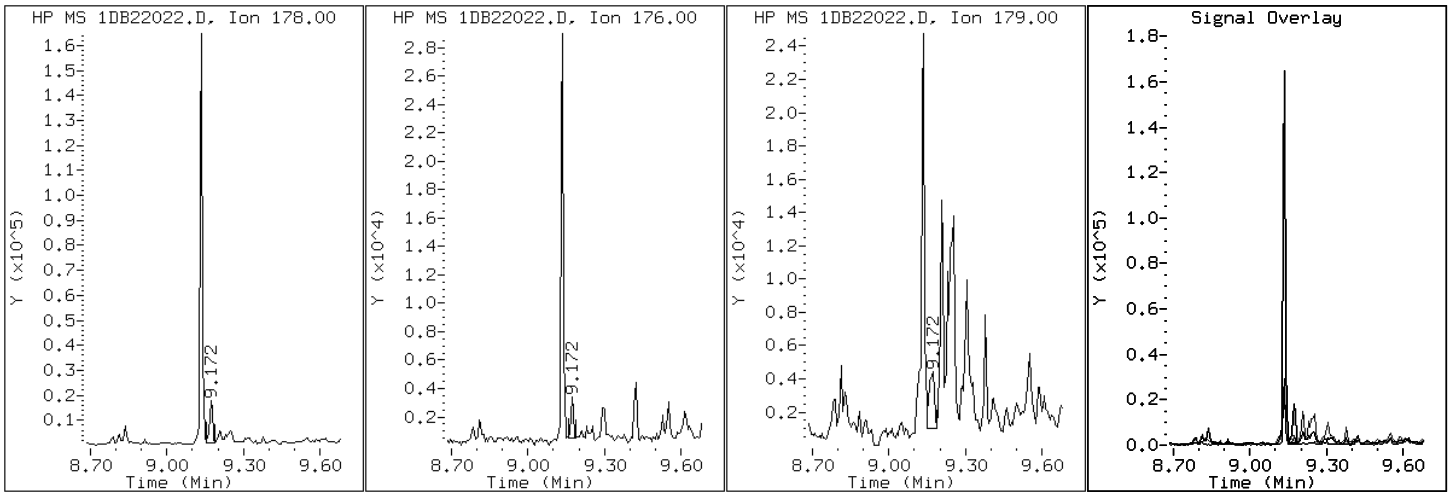
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

11 Anthracene



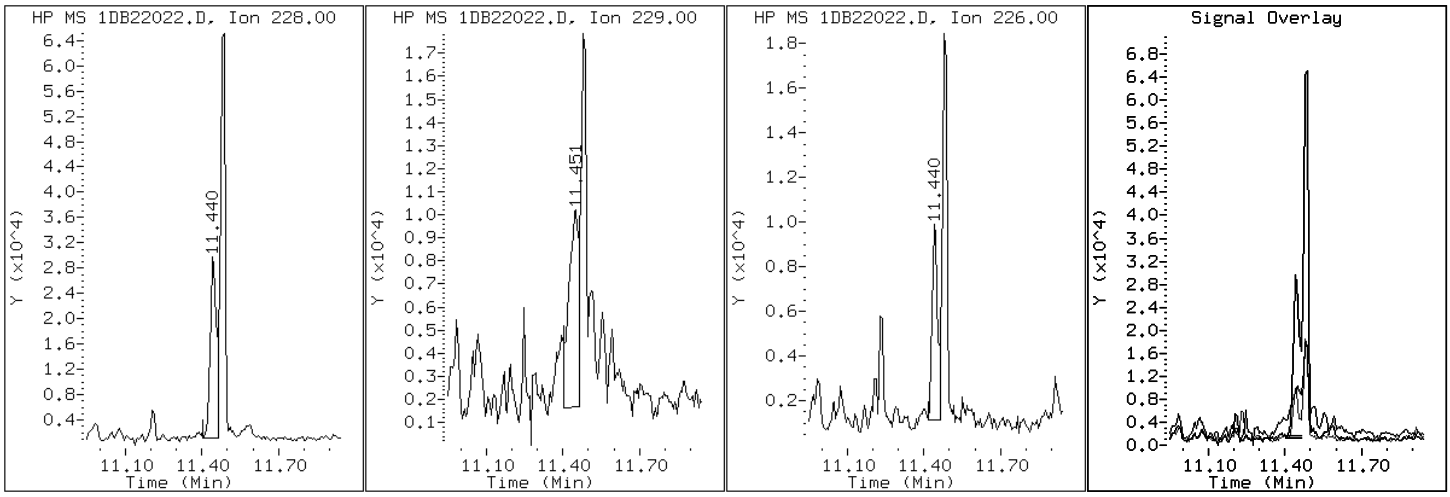
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

16 Benzo(a)anthracene



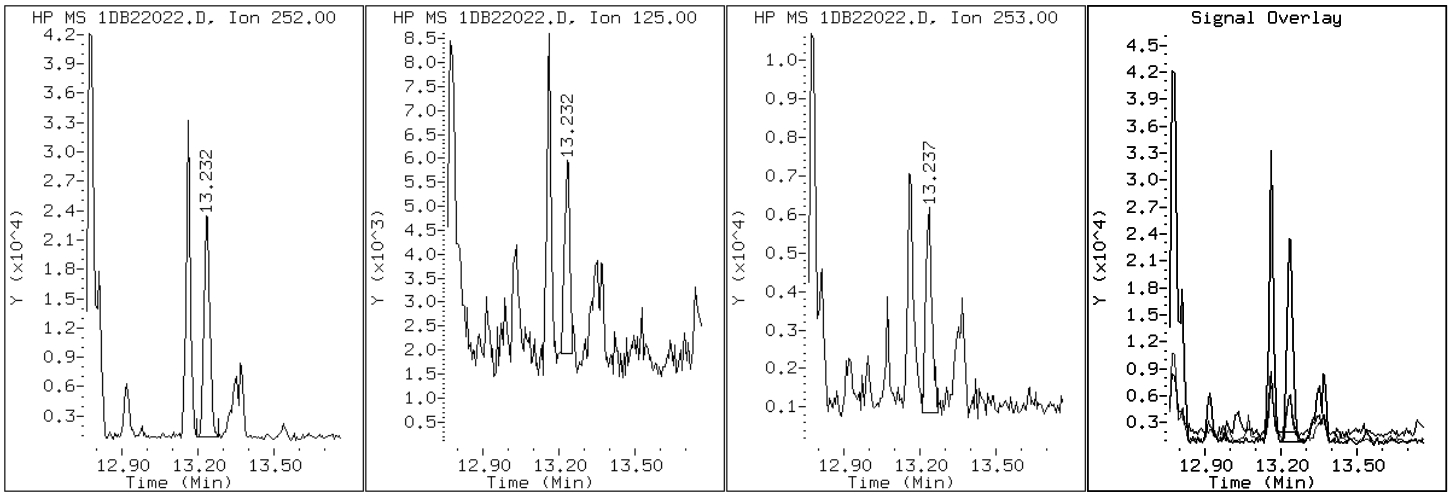
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

21 Benzo(a)pyrene



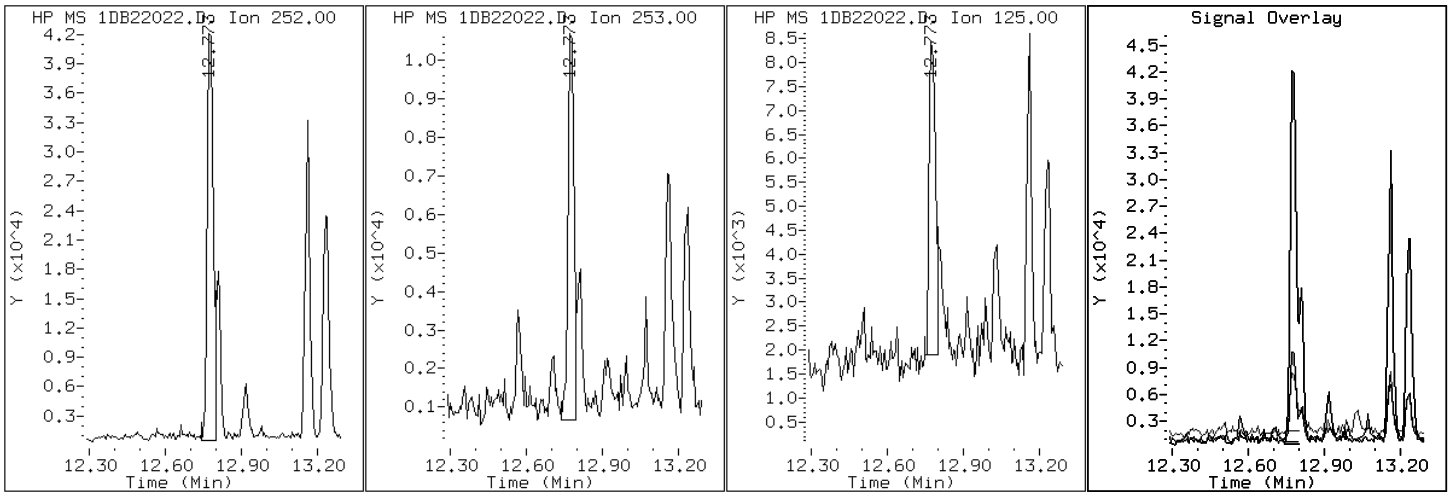
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

19 Benzo(b)fluoranthene



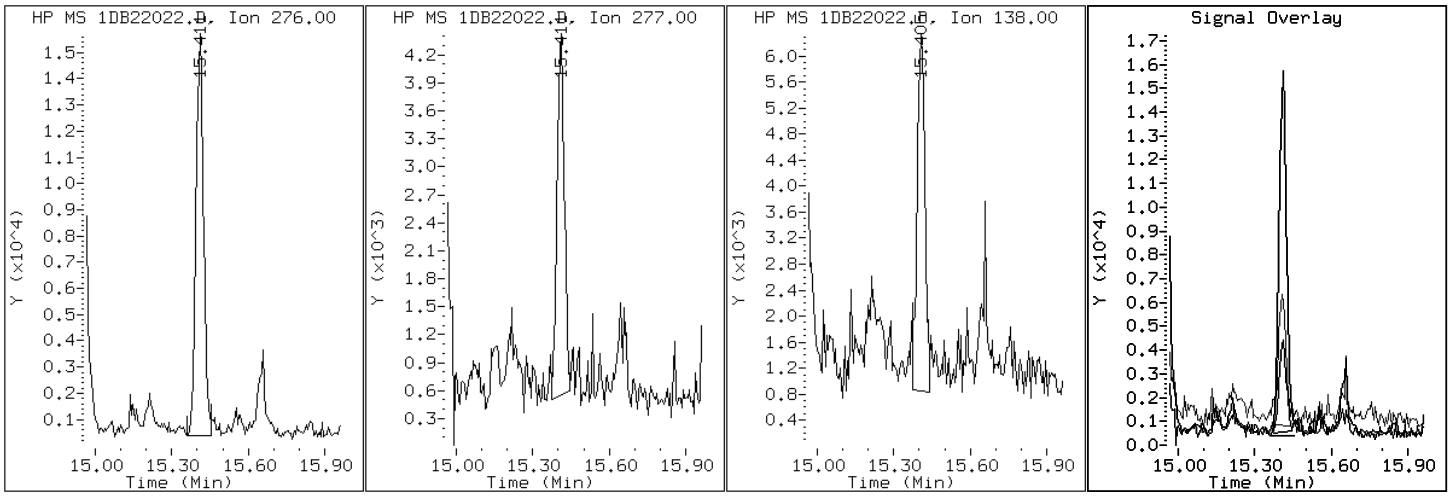
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

25 Benzo(g,h,i)perylene



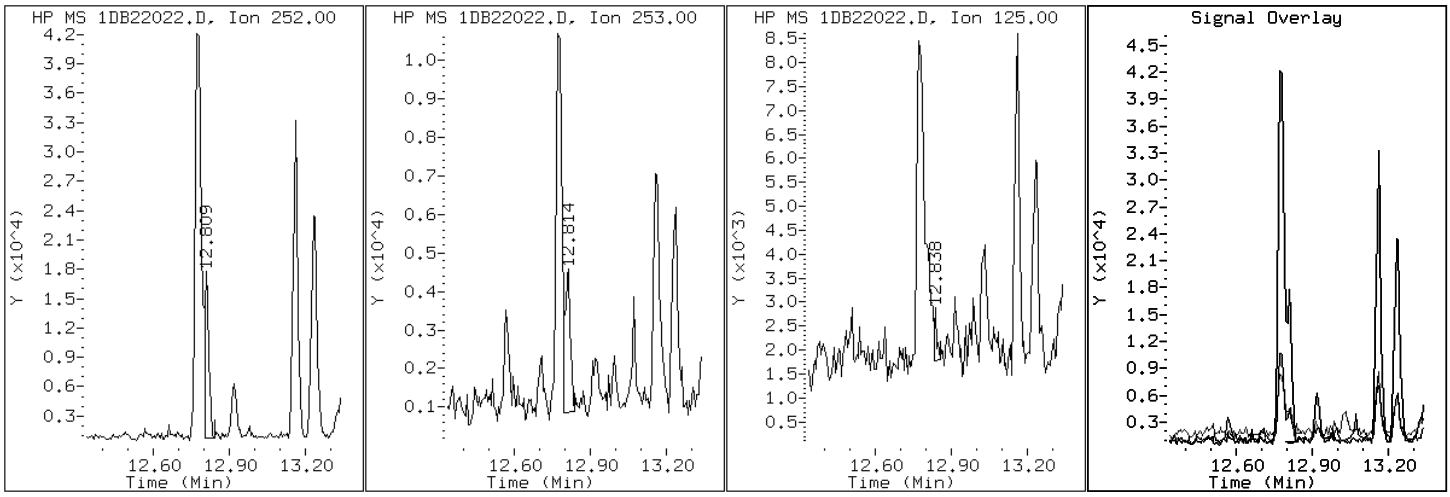
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

20 Benzo(k)fluoranthene



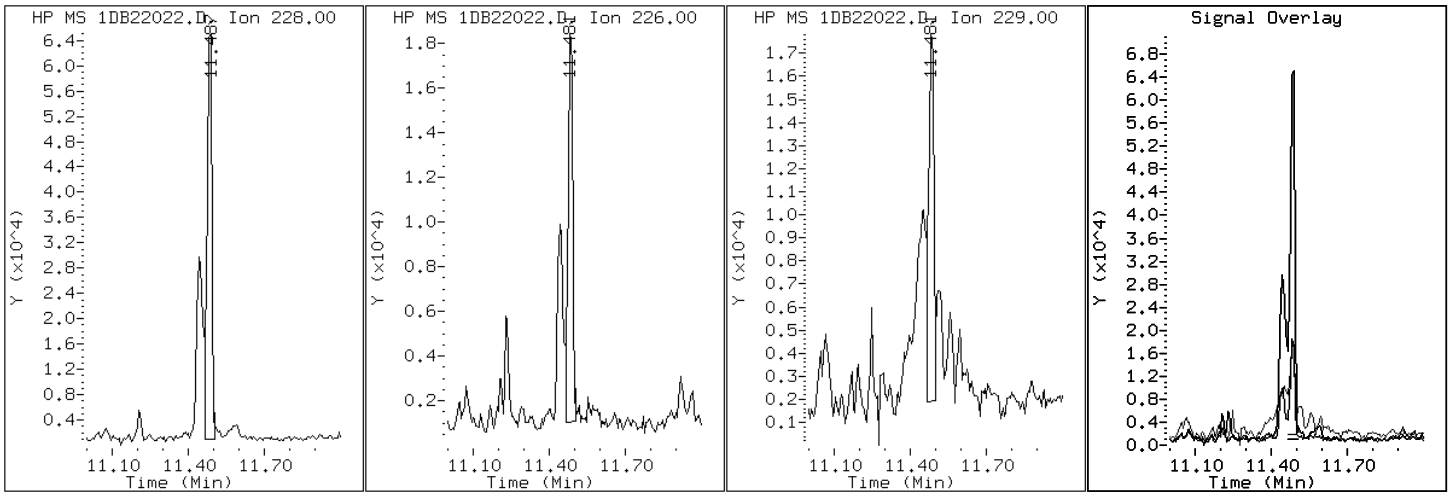
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

18 Chrysene



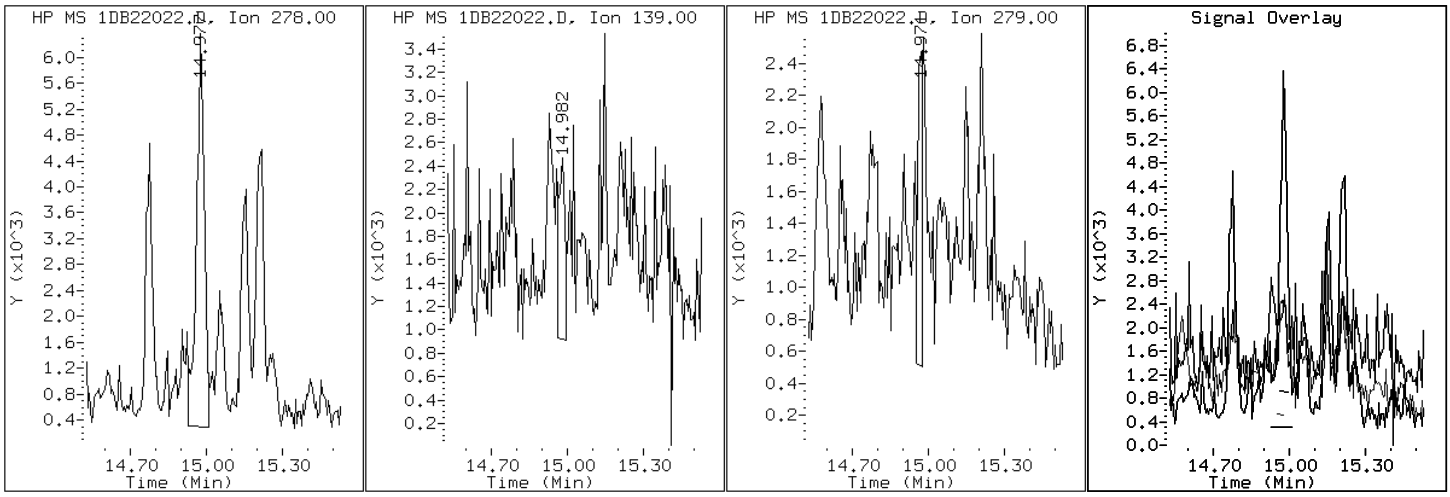
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

24 Dibenzo(a,h)anthracene



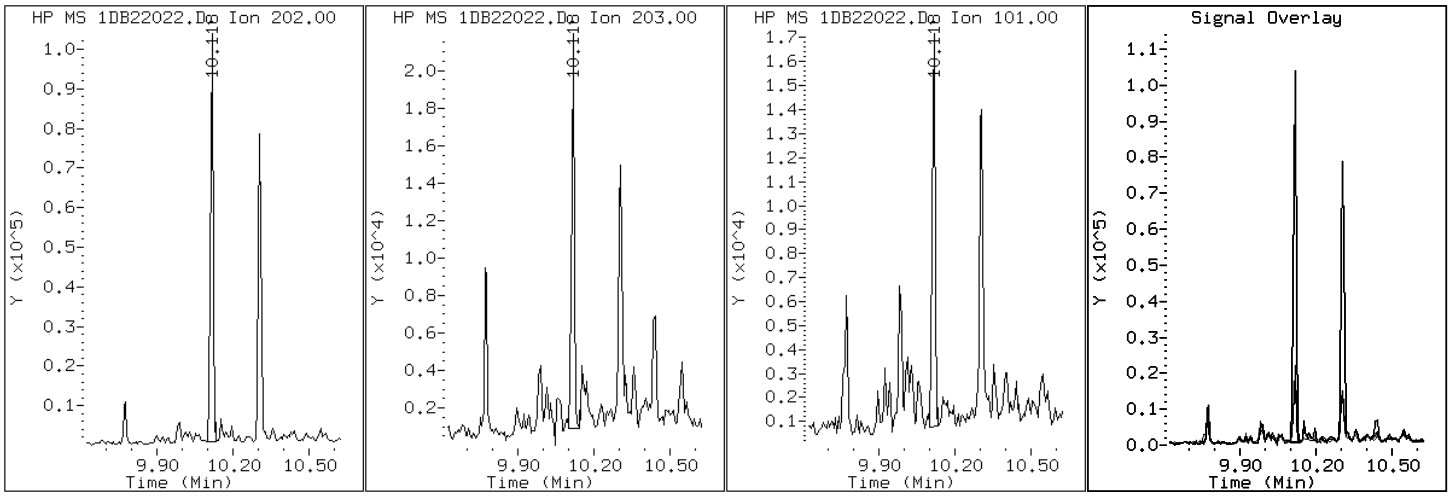
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

14 Fluoranthene



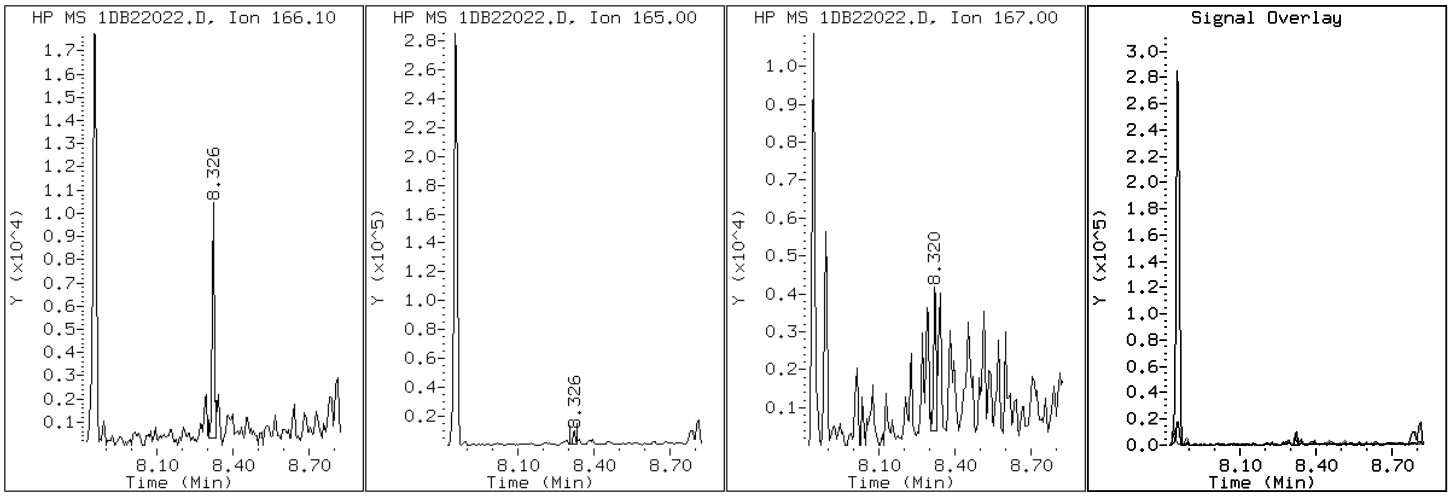
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

8 Fluorene



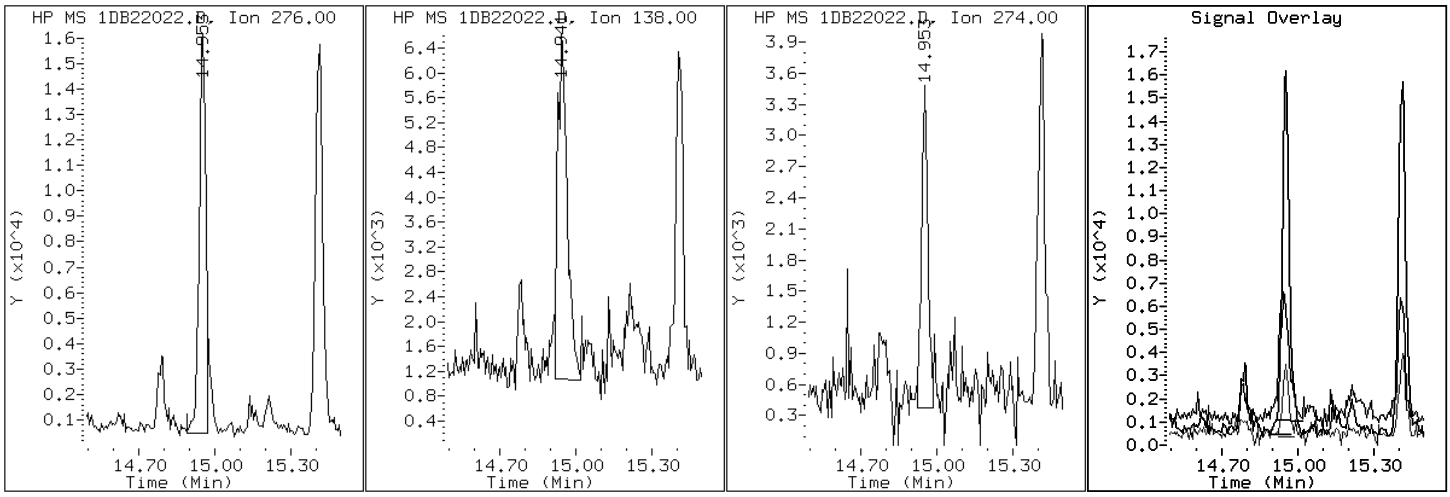
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



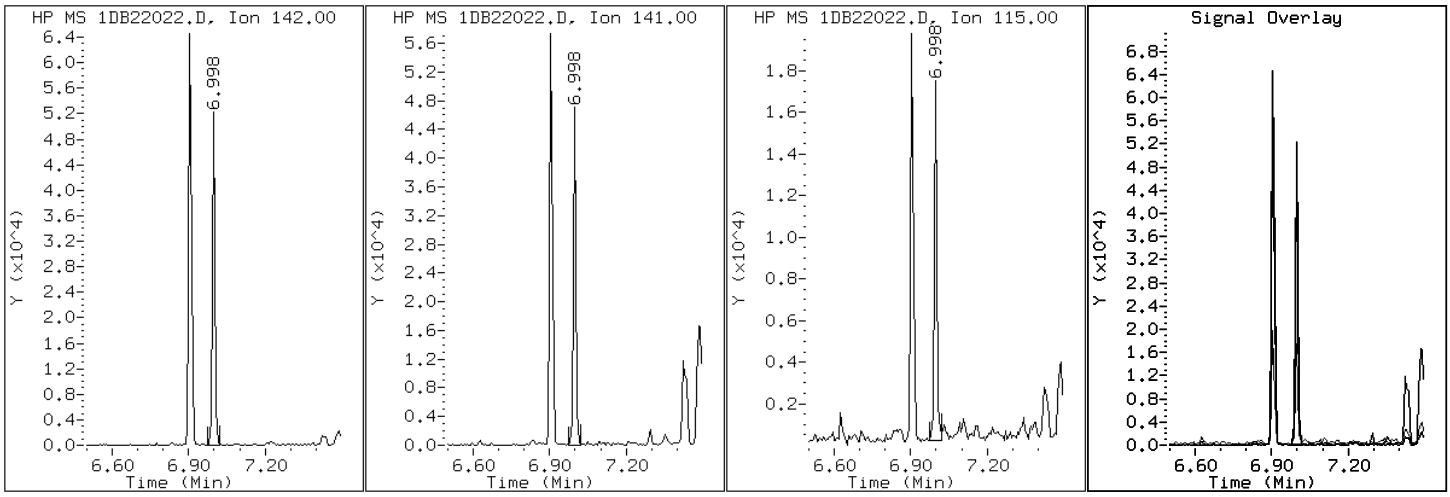
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

4 1-Methylnaphthalene



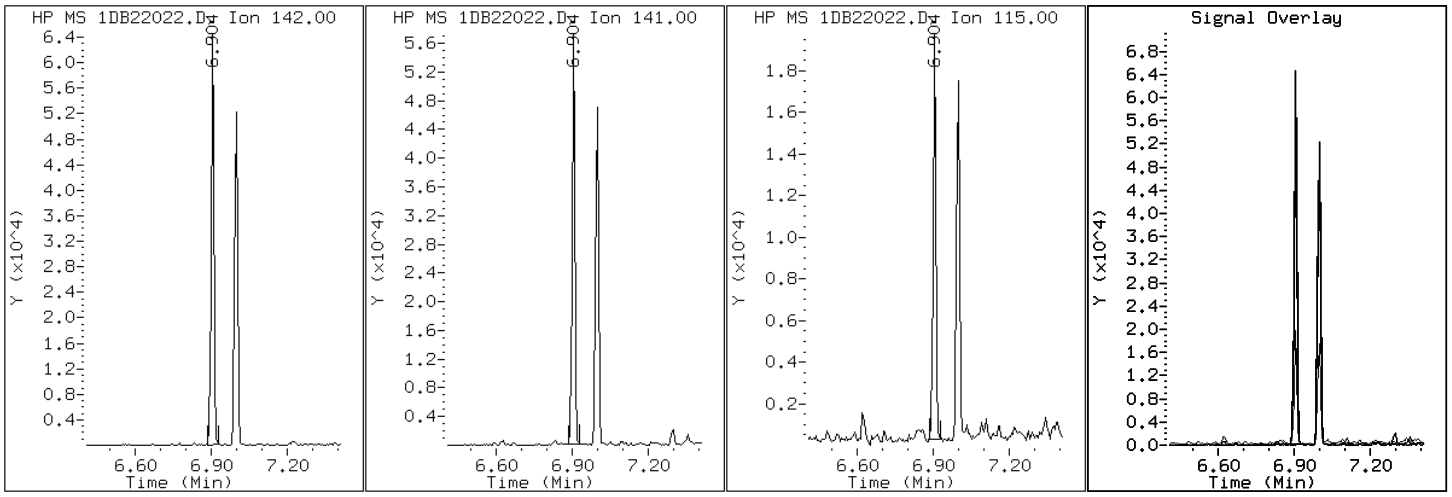
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

3 2-Methylnaphthalene



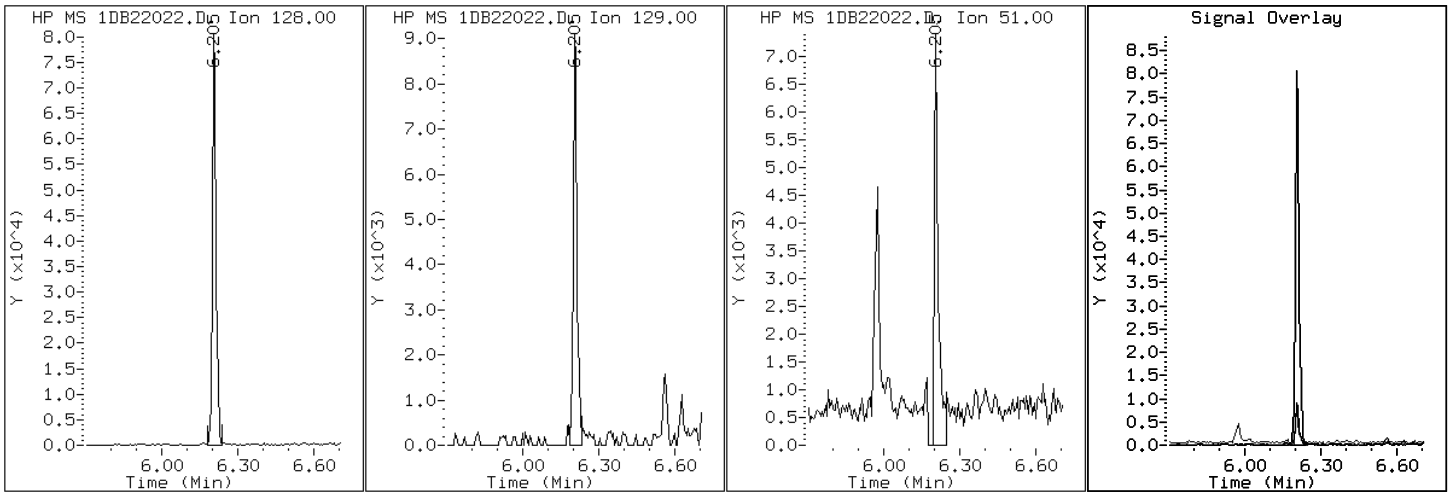
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

2 Naphthalene



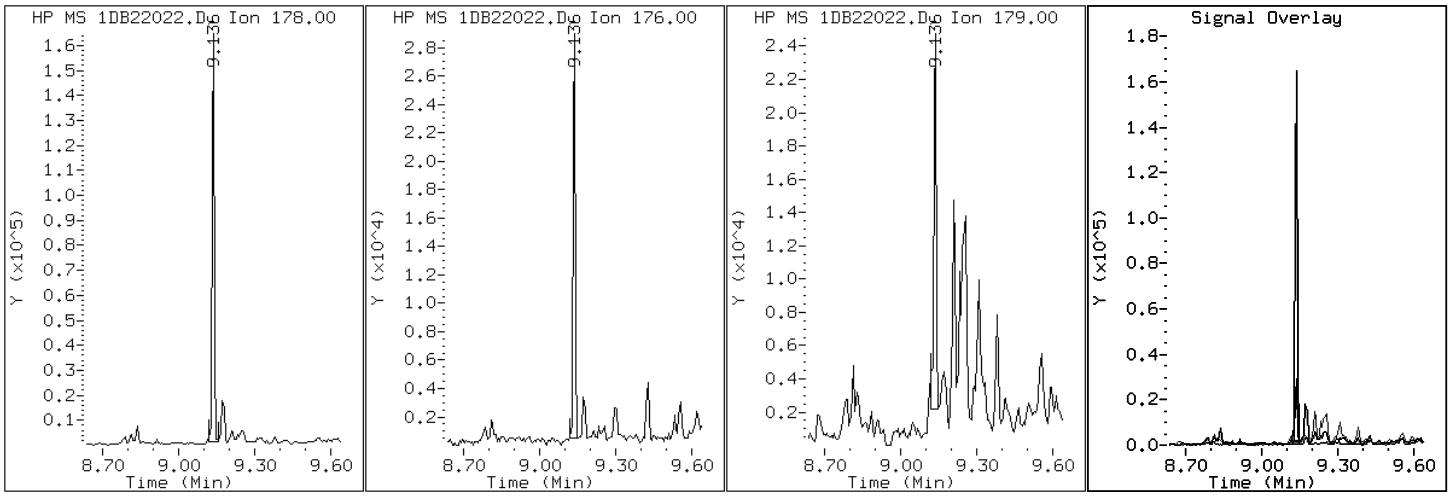
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

10 Phenanthrene



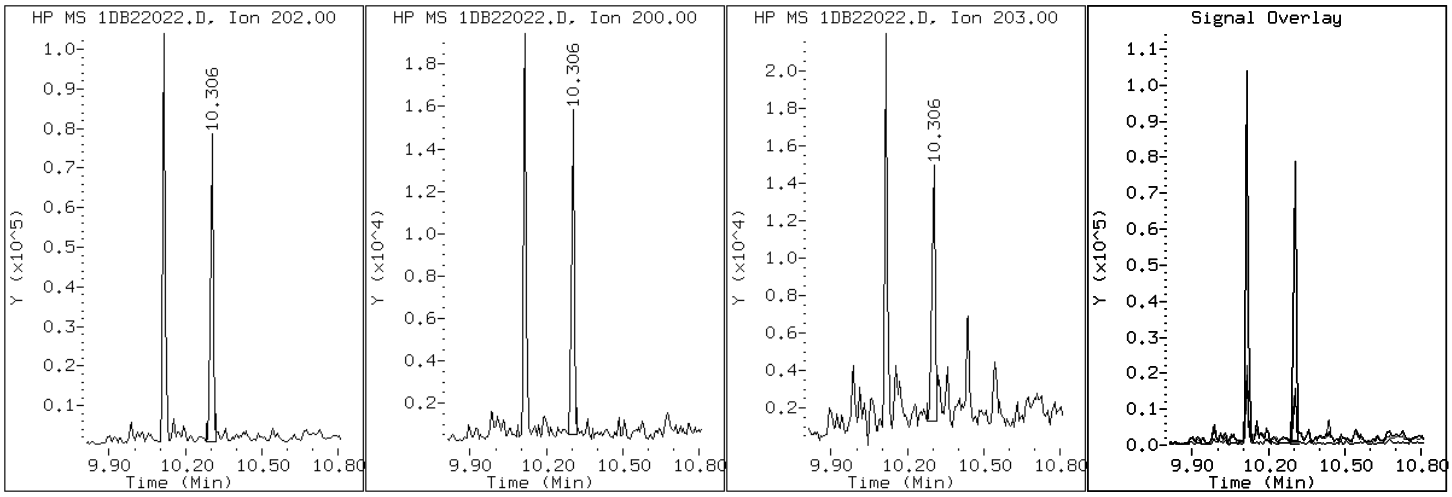
Data File: 1DB22022.D

Date: 22-FEB-2013 19:57

Client ID: FM0161Y-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-36-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB22022.D
Inj. Date and Time: 22-FEB-2013 19:57
Instrument ID: BSMSD.i
Client ID: FM0161Y-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

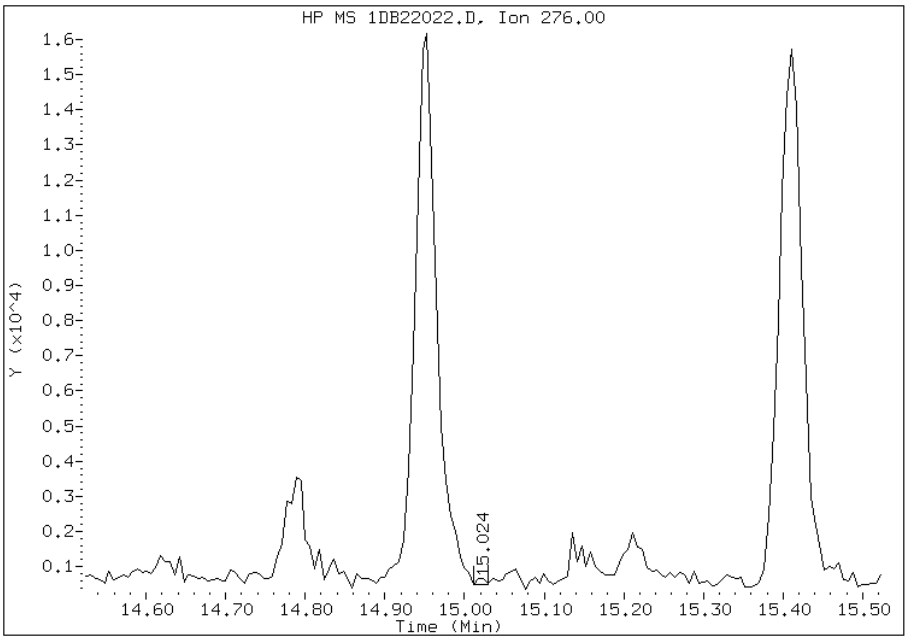
Processing Integration Results

RT: 15.02

Response: 129

Amount: 0

Conc: 1



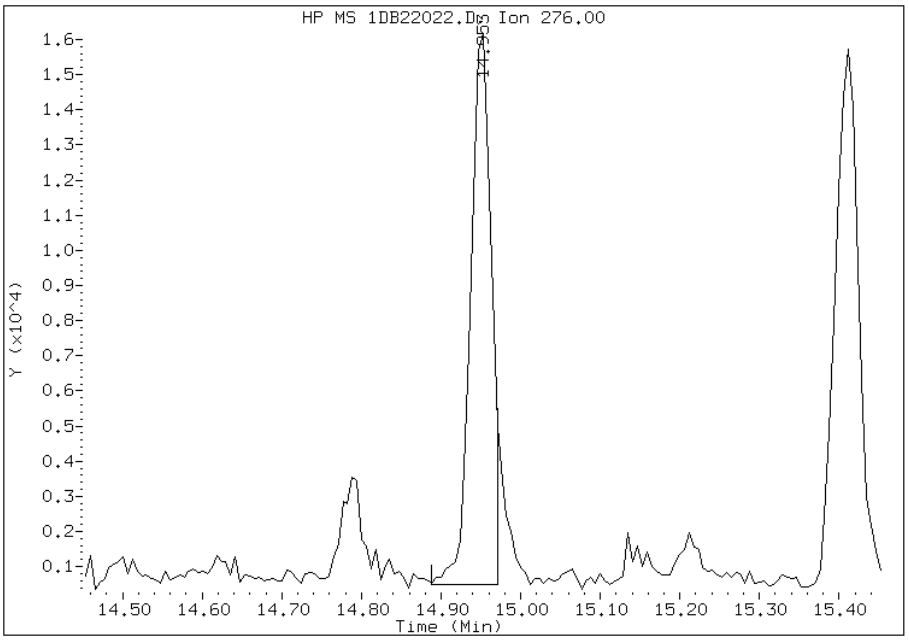
Manual Integration Results

RT: 14.95

Response: 28233

Amount: 0

Conc: 110



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 16:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161Z-CS | Lab Sample ID: 680-87545-37

Matrix: Solid | Lab File ID: 1DB22023.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 13:26

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 14.96(g) | Date Analyzed: 02/22/2013 20:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	25	J	54	6.7
120-12-7	Anthracene	40		11	5.6
56-55-3	Benzo[a]anthracene	150		11	5.2
50-32-8	Benzo[a]pyrene	140		14	7.0
205-99-2	Benzo[b]fluoranthene	250		16	8.2
191-24-2	Benzo[g,h,i]perylene	94		27	5.9
207-08-9	Benzo[k]fluoranthene	87		11	4.8
218-01-9	Chrysene	220		12	6.0
53-70-3	Dibenz(a,h)anthracene	35		27	5.5
206-44-0	Fluoranthene	260		27	5.4
86-73-7	Fluorene	20	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	89		27	9.5
90-12-0	1-Methylnaphthalene	110		54	5.9
91-57-6	2-Methylnaphthalene	140		54	9.5
91-20-3	Naphthalene	140		54	5.9
85-01-8	Phenanthrene	210		11	5.2
129-00-0	Pyrene	210		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22023.D
Lab Smp Id: 680-87545-A-37-A Client Smp ID: FM0161Z-CS
Inj Date : 22-FEB-2013 20:19
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-37-A
Misc Info : 680-87545-A-37-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	25.181	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.187	6.188	(1.000)	3512453	40.0000	
* 6 Acenaphthene-d10	164	7.862	7.856	(1.000)	2108753	40.0000	
* 9 Phenanthrene-d10	188	9.119	9.114	(1.000)	3491634	40.0000	
$ 13 o-Terphenyl	230	9.425	9.431	(1.034)	443962	8.22233	730
* 17 Chrysene-d12	240	11.469	11.464	(1.000)	3446326	40.0000	
* 22 Perylene-d12	264	13.355	13.344	(1.000)	3623917	40.0000	
2 Naphthalene	128	6.205	6.205	(1.003)	151649	1.61397	140
3 2-Methylnaphthalene	142	6.904	6.910	(1.116)	95808	1.60070	140
4 1-Methylnaphthalene	142	6.998	6.999	(1.131)	72010	1.28477	110
5 Acenaphthylene	152	7.727	7.733	(0.983)	25592	0.27527	24
8 Fluorene	166	8.326	8.326	(1.059)	14525	0.21931	20
10 Phenanthrene	178	9.137	9.137	(1.002)	227468	2.29497	200
11 Anthracene	178	9.172	9.184	(1.006)	44418	0.44791	40
12 Carbazole	167	9.313	9.313	(1.021)	23642	0.26668	24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.118	10.124	(1.110)	298187	2.88285	260
15 Pyrene	202	10.306	10.312	(0.899)	250098	2.33951	210
16 Benzo(a)anthracene	228	11.446	11.446	(0.998)	154836	1.64103	150
18 Chrysene	228	11.487	11.499	(1.002)	240254	2.46644	220
19 Benzo(b)fluoranthene	252	12.779	12.792	(0.957)	259685	2.78396	250(H)
20 Benzo(k)fluoranthene	252	12.815	12.839	(0.960)	94635	0.96896	86(H)
21 Benzo(a)pyrene	252	13.238	13.262	(0.991)	140204	1.51889	140
23 Indeno(1,2,3-cd)pyrene	276	14.965	14.995	(1.121)	98538	1.00030	89(M)
24 Dibenzo(a,h)anthracene	278	14.989	15.030	(1.122)	36132	0.39716	35(H)
25 Benzo(g,h,i)perylene	276	15.423	15.465	(1.155)	98466	1.04838	94(H)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22023.D

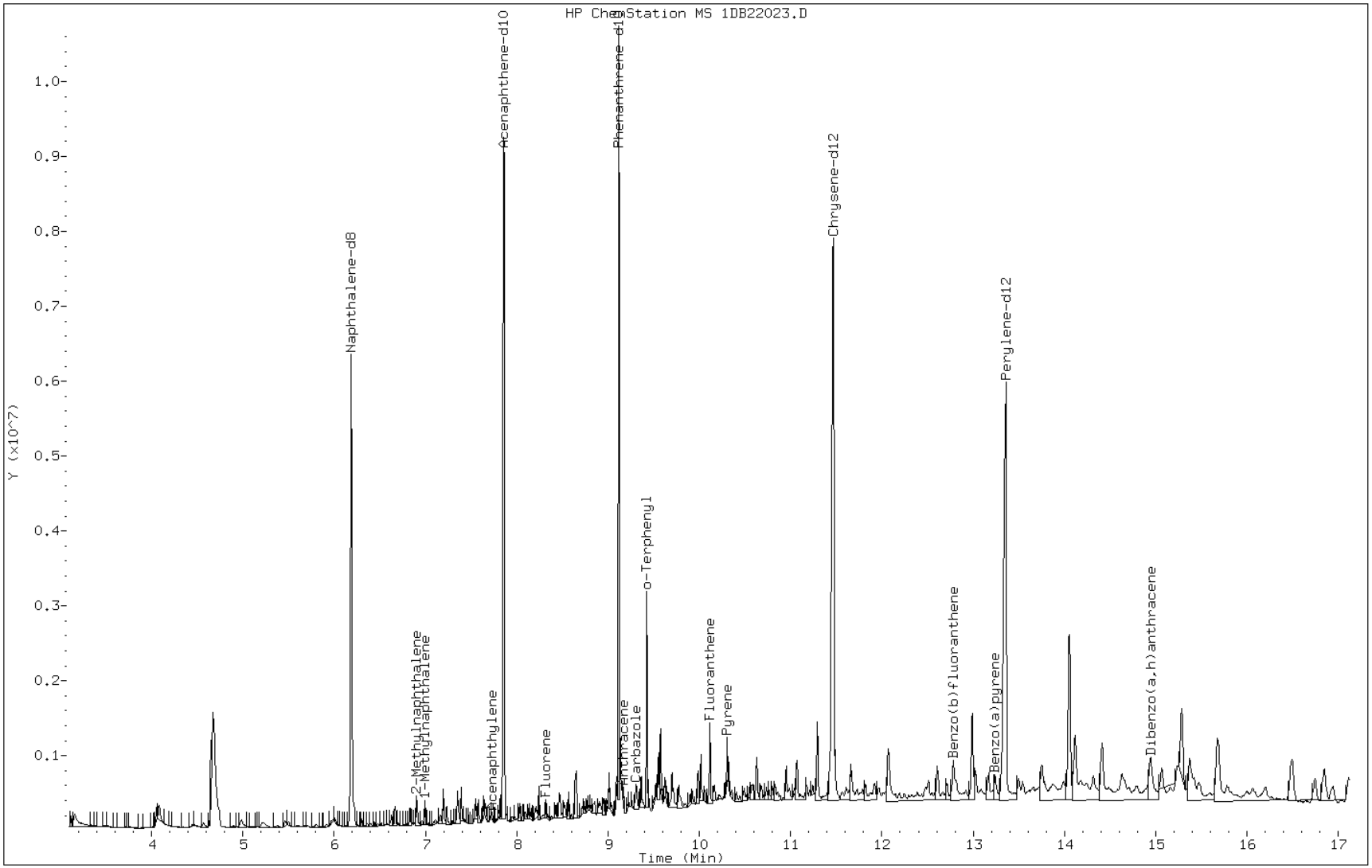
Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A

Operator: SCC



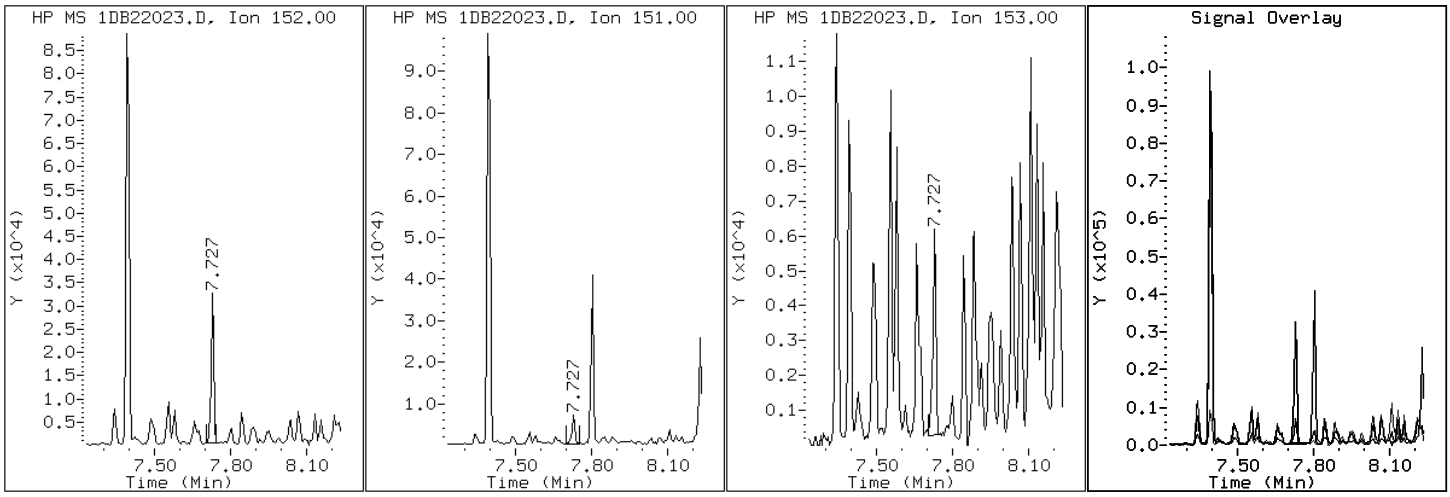
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

5 Acenaphthylene



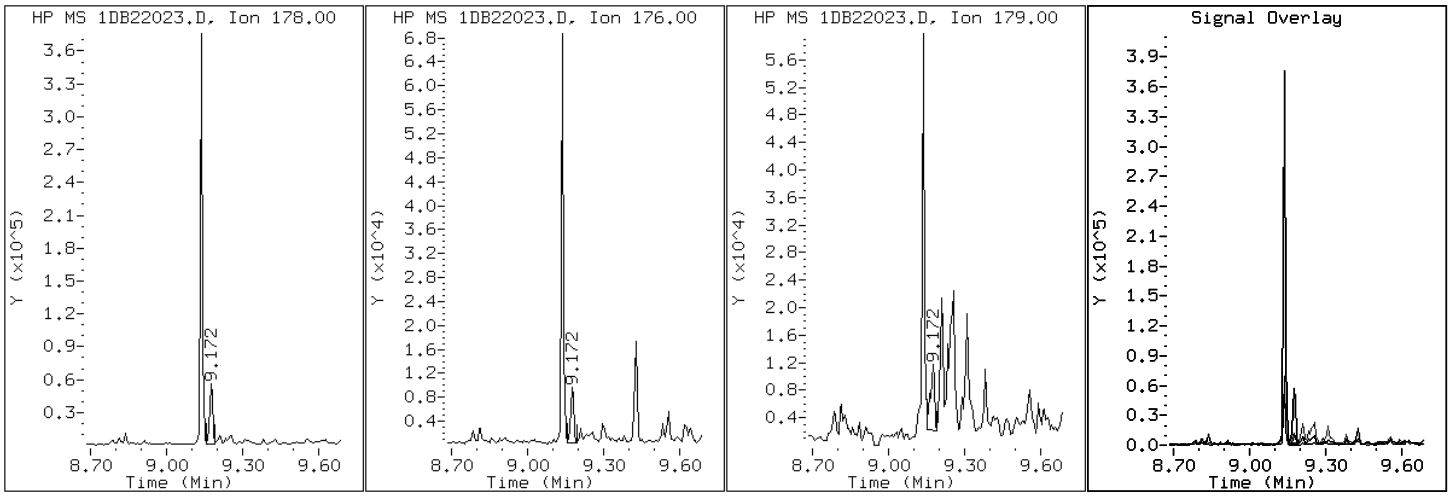
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

11 Anthracene



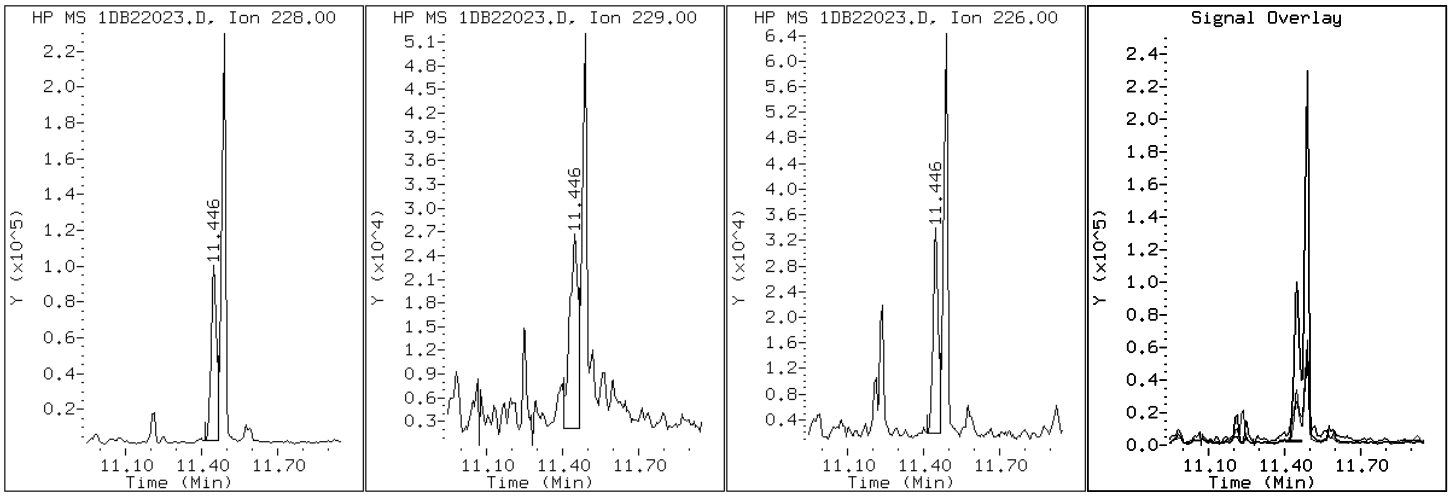
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

16 Benzo(a)anthracene



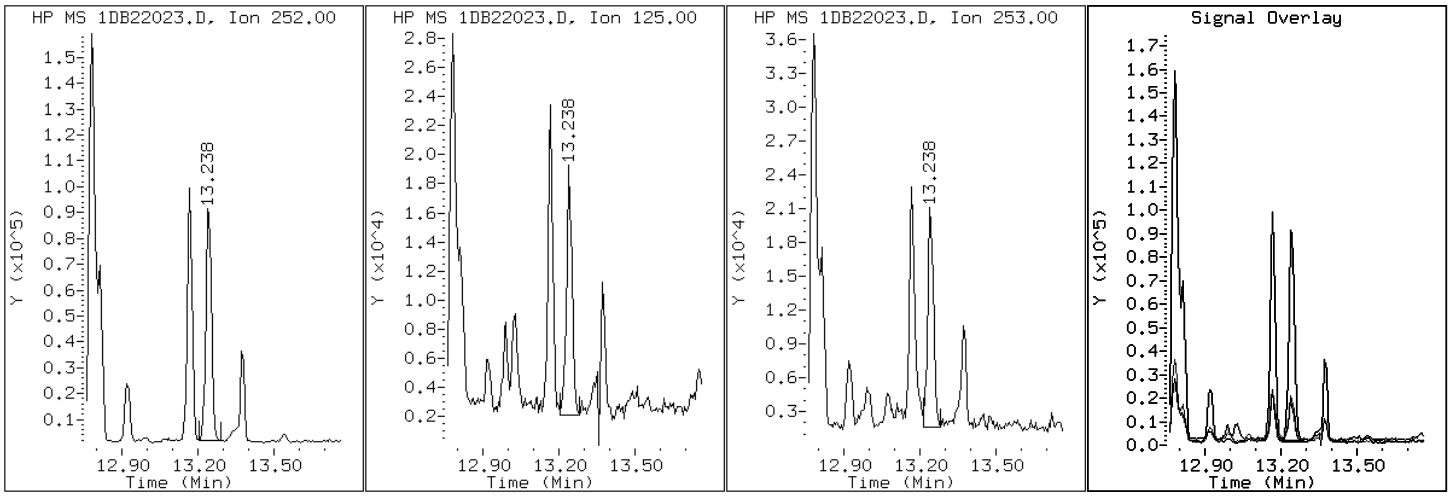
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

21 Benzo(a)pyrene



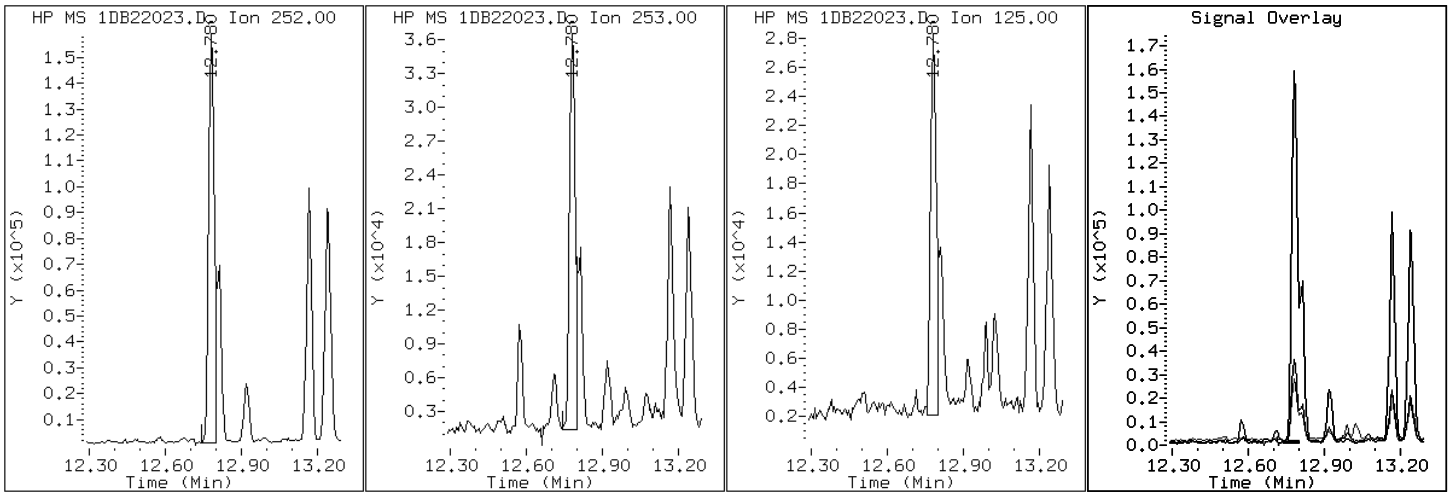
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

19 Benzo(b)fluoranthene



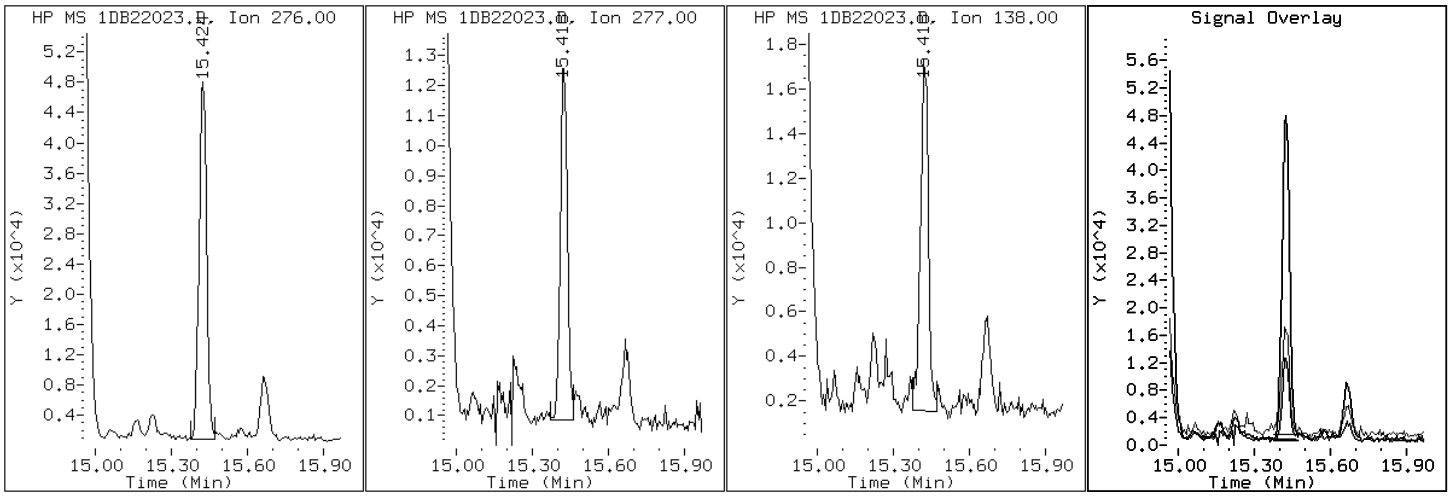
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

25 Benzo(g,h,i)perylene



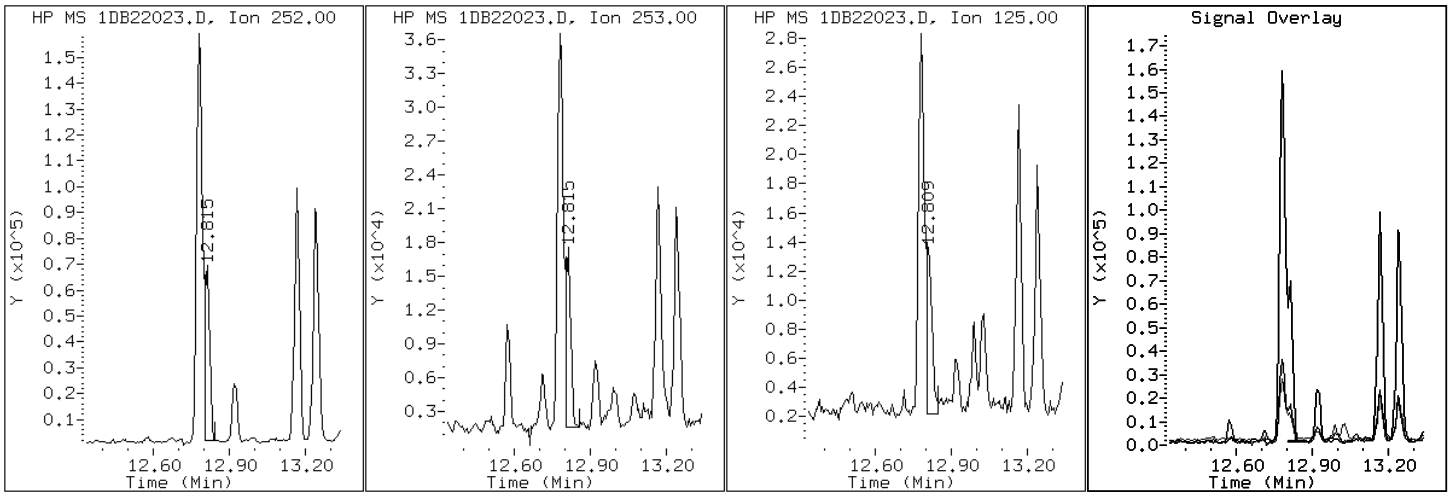
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

20 Benzo(k)fluoranthene



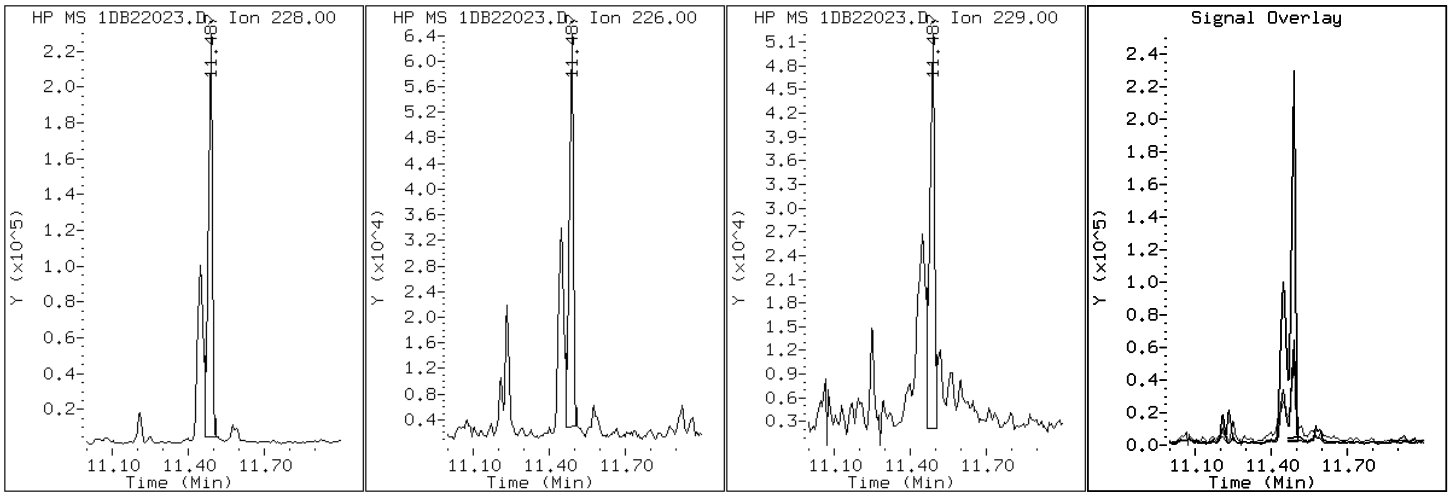
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

18 Chrysene



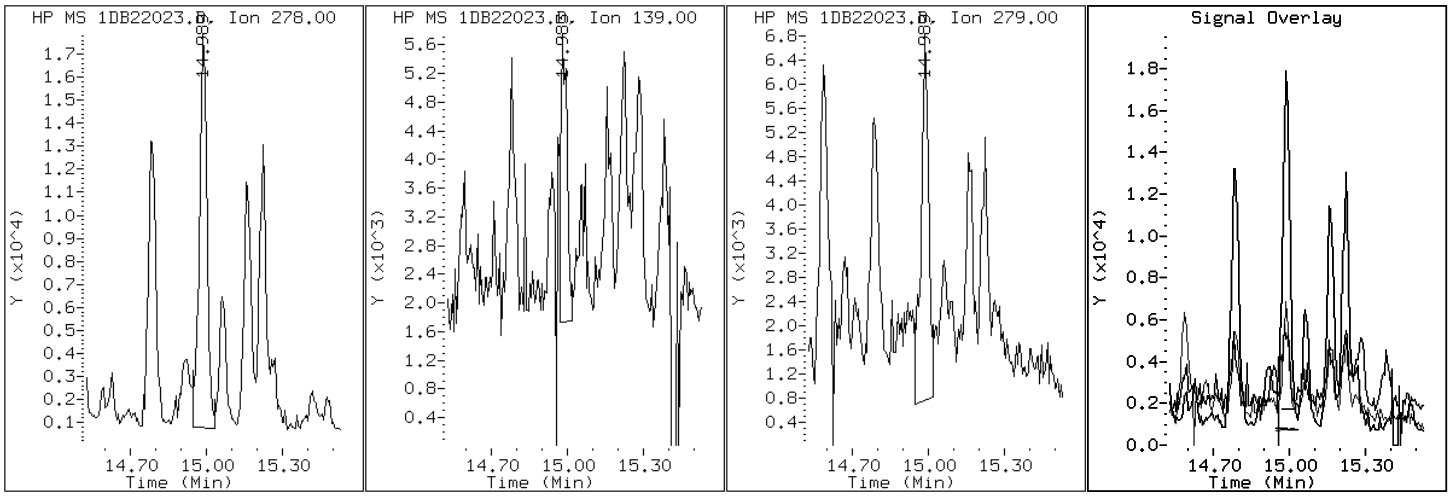
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

24 Dibenzo(a,h)anthracene



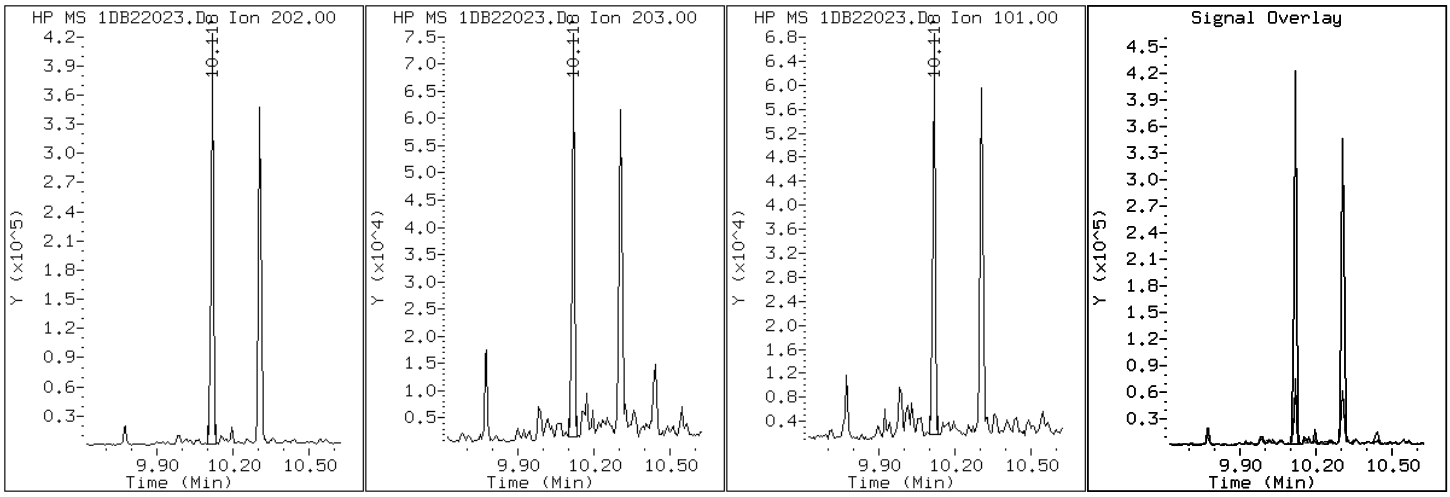
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

14 Fluoranthene



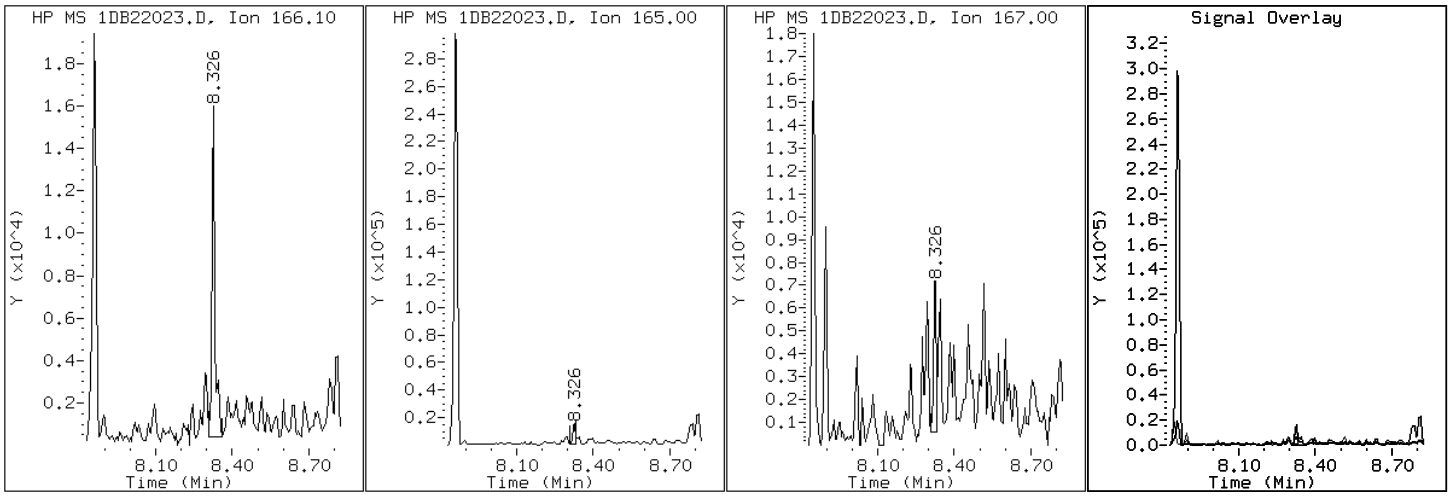
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

8 Fluorene



Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

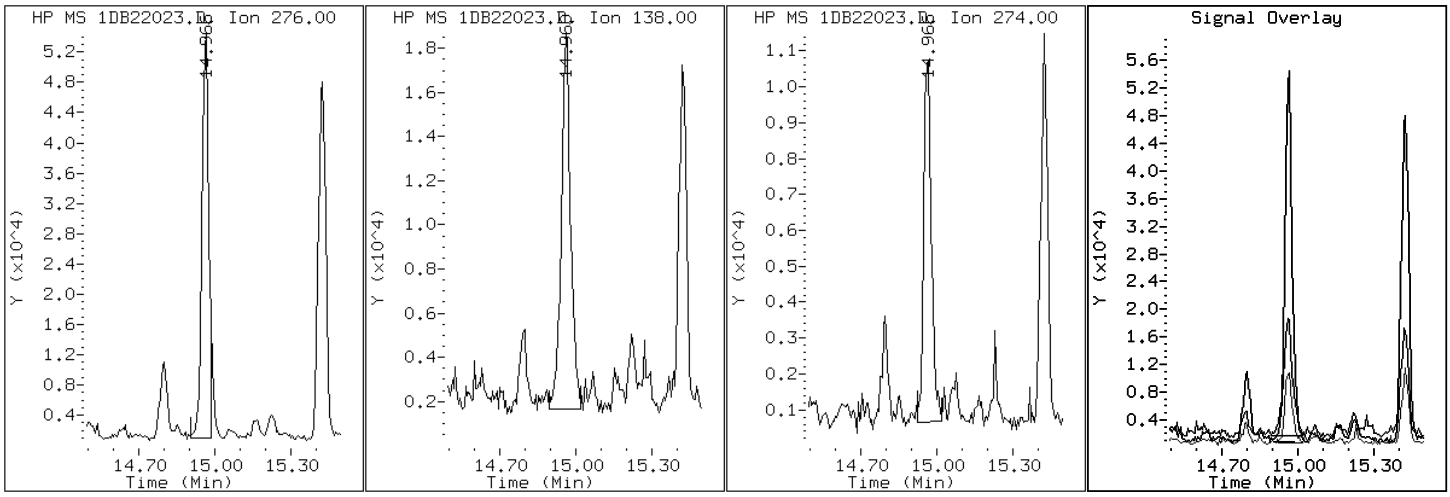
Client ID: FM0161Z-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A

Operator: SCC

23 Indeno(1,2,3-cd)pyrene



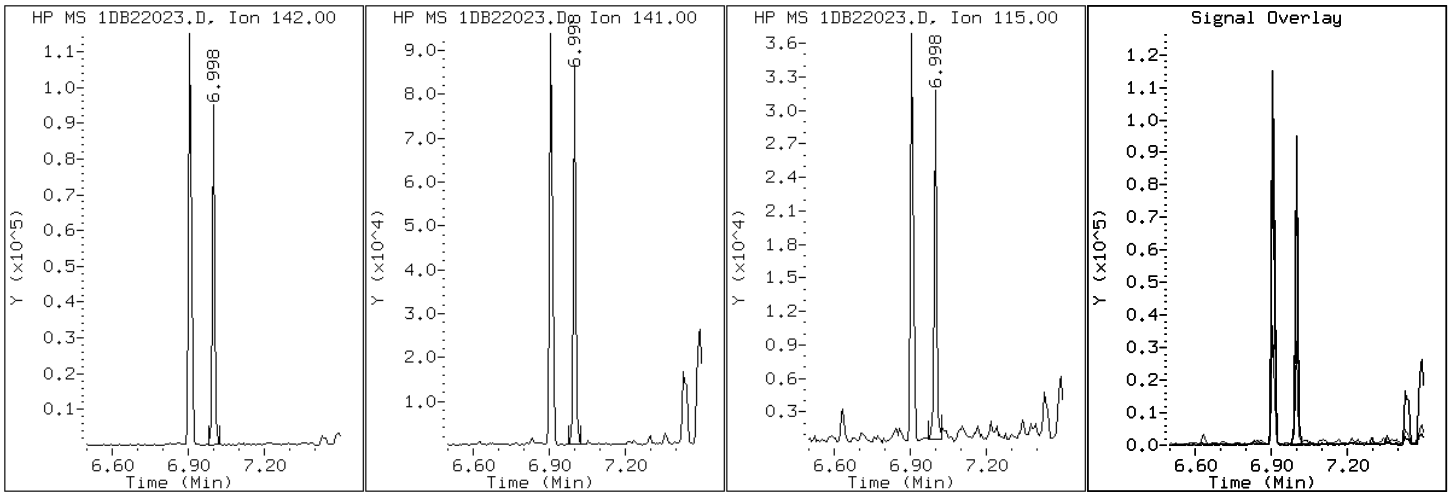
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

4 1-Methylnaphthalene



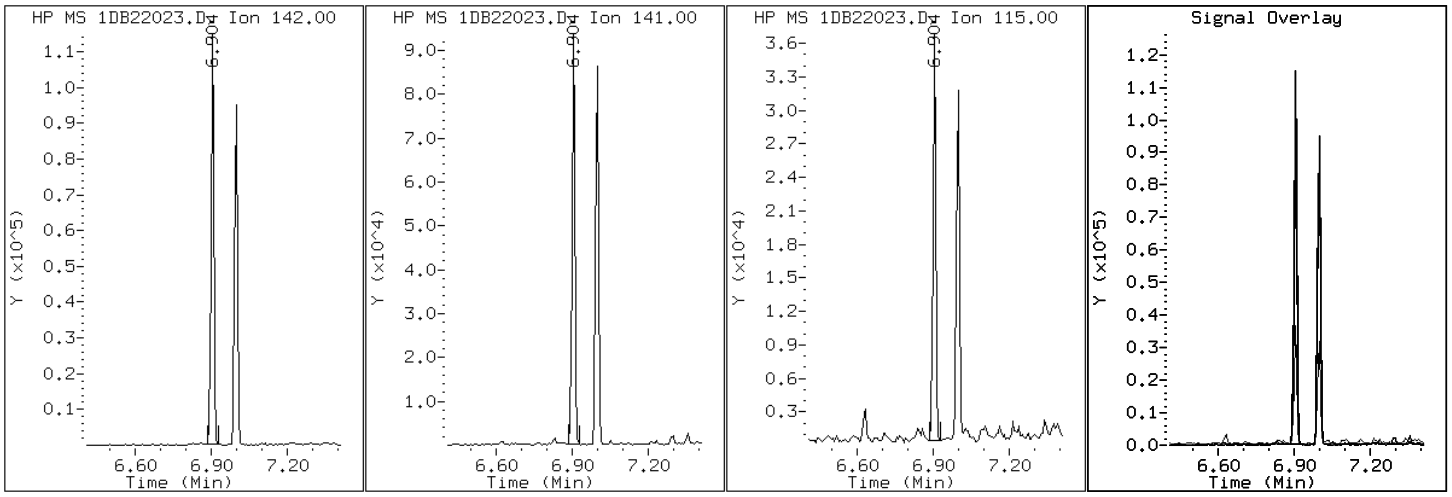
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

3 2-Methylnaphthalene



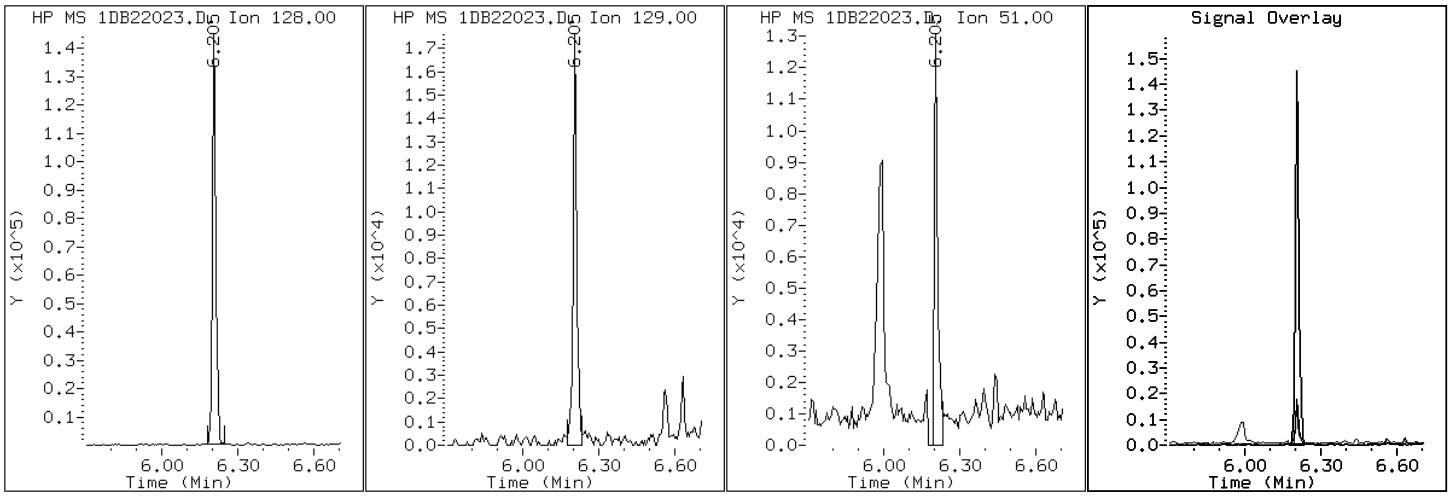
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

2 Naphthalene



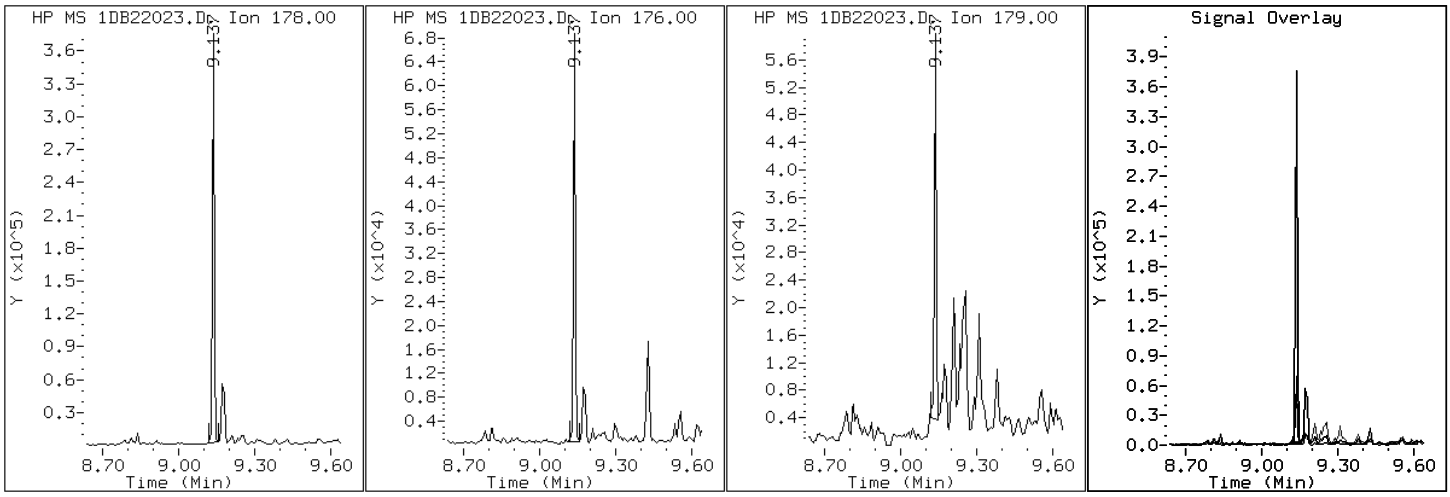
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

10 Phenanthrene



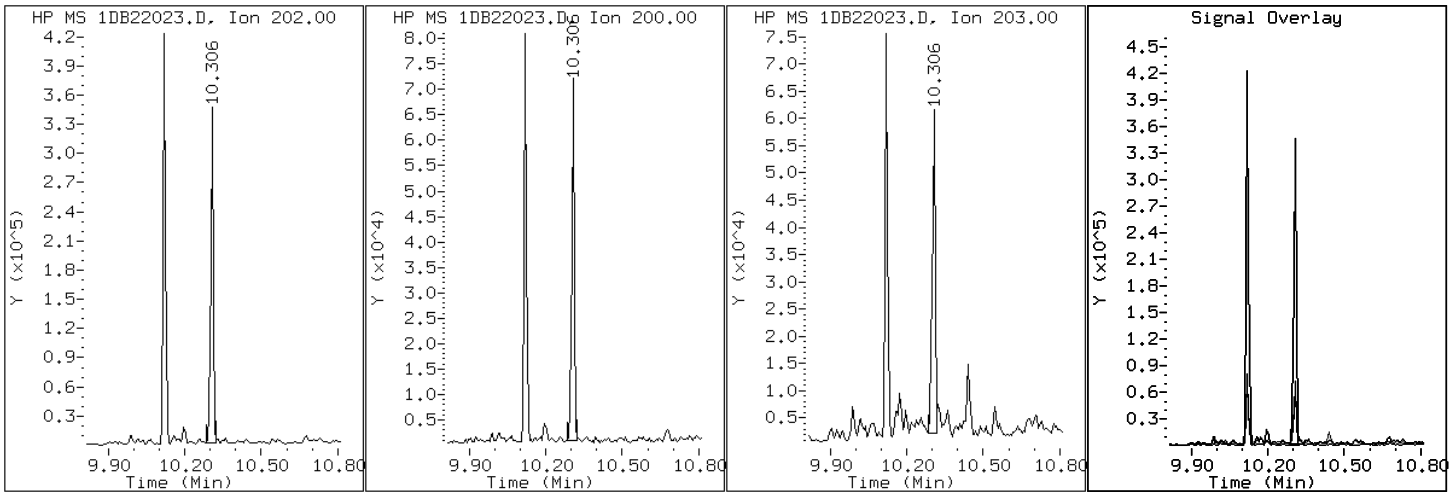
Data File: 1DB22023.D

Date: 22-FEB-2013 20:19

Client ID: FM0161Z-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-37-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB22023.D
Inj. Date and Time: 22-FEB-2013 20:19
Instrument ID: BSMSD.i
Client ID: FM0161Z-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

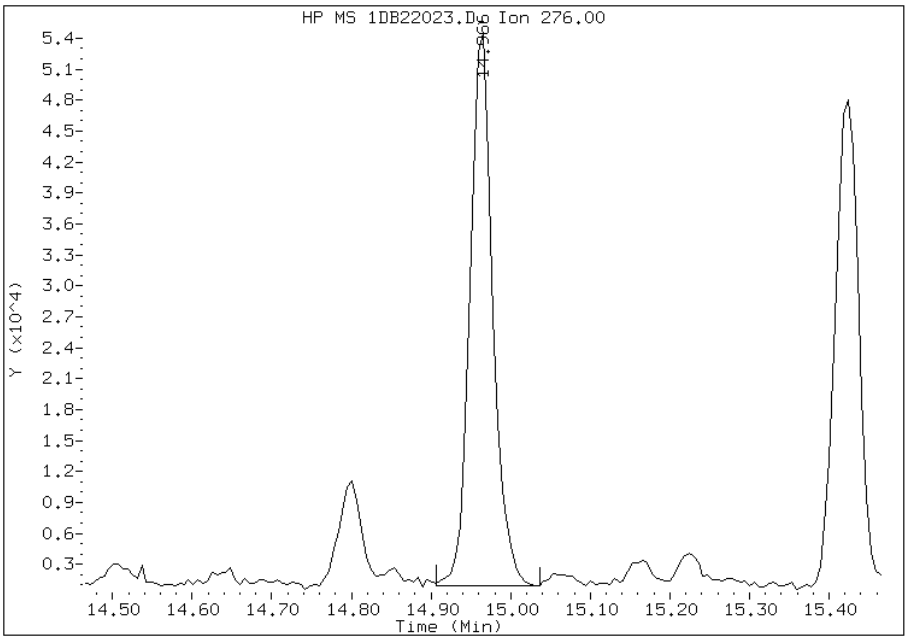
Processing Integration Results

RT: 14.97

Response: 106731

Amount: 1

Conc: 97



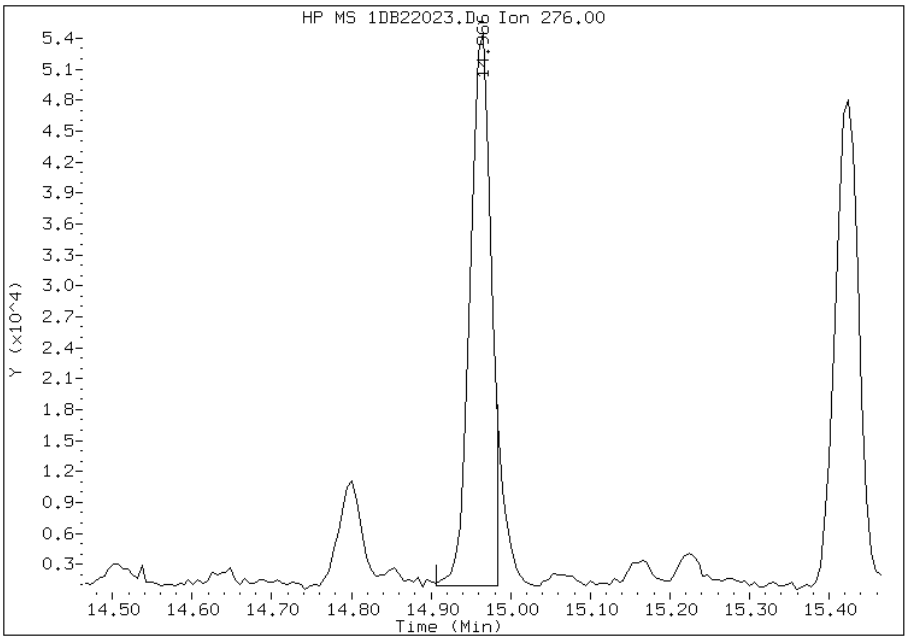
Manual Integration Results

RT: 14.97

Response: 98538

Amount: 1

Conc: 89



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 16:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161AA-CS | Lab Sample ID: 680-87545-38

Matrix: Solid | Lab File ID: 1DB22024.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 13:25

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 14.98(g) | Date Analyzed: 02/22/2013 20:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 28.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	47	J	56	7.0
120-12-7	Anthracene	61		12	5.9
56-55-3	Benzo[a]anthracene	260		11	5.4
50-32-8	Benzo[a]pyrene	240		14	7.2
205-99-2	Benzo[b]fluoranthene	400		17	8.5
191-24-2	Benzo[g,h,i]perylene	160		28	6.1
207-08-9	Benzo[k]fluoranthene	140		11	5.0
218-01-9	Chrysene	310		13	6.3
53-70-3	Dibenz(a,h)anthracene	55		28	5.7
206-44-0	Fluoranthene	430		28	5.6
86-73-7	Fluorene	18	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	160		28	9.9
90-12-0	1-Methylnaphthalene	150		56	6.1
91-57-6	2-Methylnaphthalene	190		56	9.9
91-20-3	Naphthalene	180		56	6.1
85-01-8	Phenanthrene	260		11	5.4
129-00-0	Pyrene	360		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22024.D
Lab Smp Id: 680-87545-A-38-A Client Smp ID: FM0161AA-CS
Inj Date : 22-FEB-2013 20:42
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-38-A
Misc Info : 680-87545-A-38-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	28.126	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.186	6.188	(1.000)	3450138	40.0000	
* 6 Acenaphthene-d10	164	7.860	7.856	(1.000)	2050867	40.0000	
* 9 Phenanthrene-d10	188	9.124	9.114	(1.000)	3358337	40.0000	
$ 13 o-Terphenyl	230	9.429	9.431	(1.033)	494710	9.52586	880
* 17 Chrysene-d12	240	11.468	11.464	(1.000)	3332589	40.0000	
* 22 Perylene-d12	264	13.360	13.344	(1.000)	3501457	40.0000	
2 Naphthalene	128	6.203	6.205	(1.003)	179745	1.94754	180
3 2-Methylnaphthalene	142	6.903	6.910	(1.116)	120875	2.05598	190
4 1-Methylnaphthalene	142	6.997	6.999	(1.131)	90079	1.63618	150
5 Acenaphthylene	152	7.725	7.733	(0.983)	46077	0.50960	47
8 Fluorene	166	8.324	8.326	(1.059)	12522	0.19440	18
10 Phenanthrene	178	9.135	9.137	(1.001)	271787	2.85095	260
11 Anthracene	178	9.176	9.184	(1.006)	62302	0.65318	61
12 Carbazole	167	9.312	9.313	(1.021)	28517	0.33444	31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.116	10.124	(1.109)	457250	4.59612	430
15 Pyrene	202	10.305	10.312	(0.899)	397540	3.84565	360
16 Benzo(a)anthracene	228	11.450	11.446	(0.998)	256755	2.81409	260
18 Chrysene	228	11.485	11.499	(1.002)	316750	3.36272	310
19 Benzo(b)fluoranthene	252	12.784	12.792	(0.957)	392853	4.35889	400(H)
20 Benzo(k)fluoranthene	252	12.819	12.839	(0.960)	144985	1.53641	140(H)
21 Benzo(a)pyrene	252	13.248	13.262	(0.992)	233518	2.61827	240
23 Indeno(1,2,3-cd)pyrene	276	14.970	14.995	(1.120)	162769	1.71012	160(M)
24 Dibenzo(a,h)anthracene	278	14.999	15.030	(1.123)	52437	0.59655	55(H)
25 Benzo(g,h,i)perylene	276	15.434	15.465	(1.155)	159422	1.75675	160(H)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22024.D

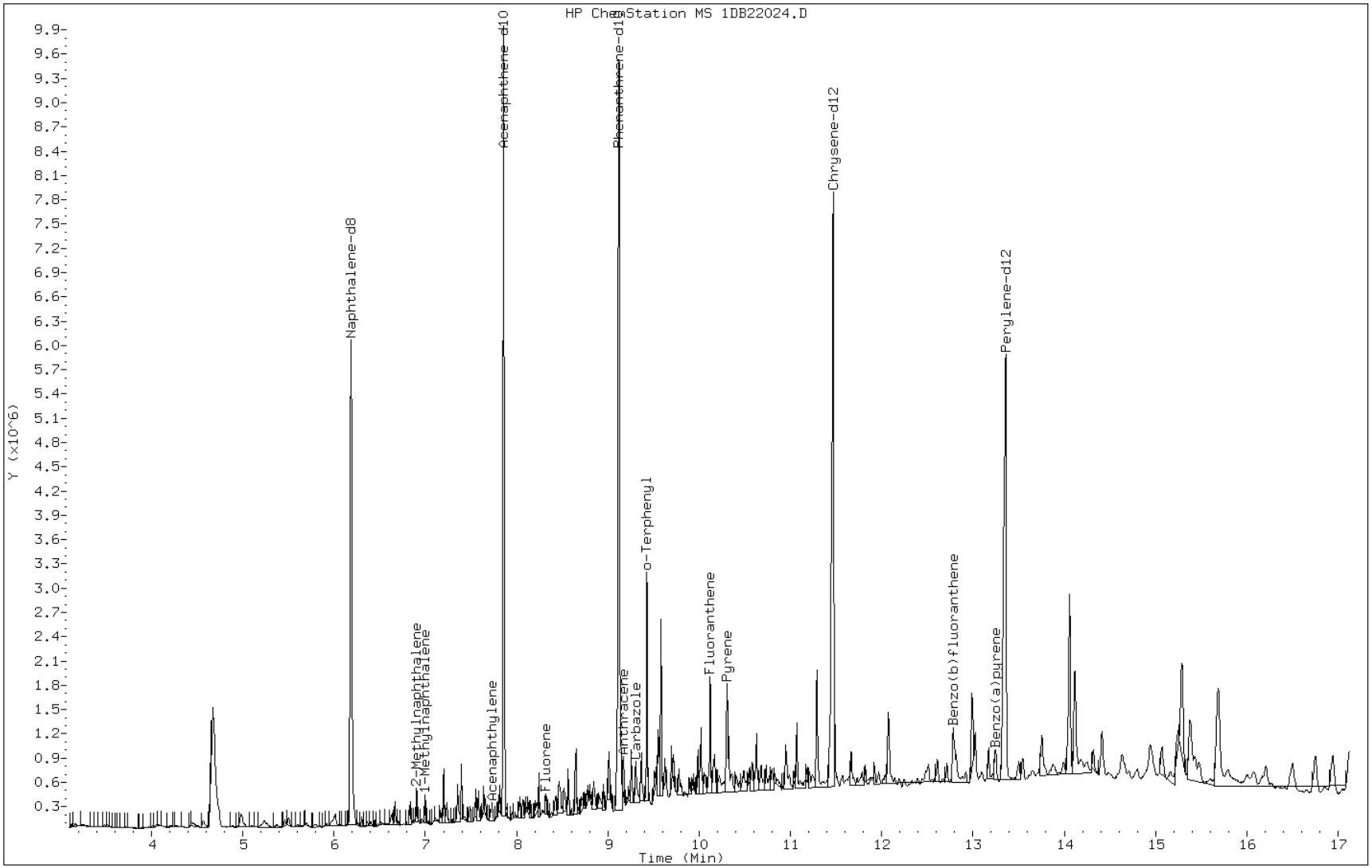
Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A

Operator: SCC



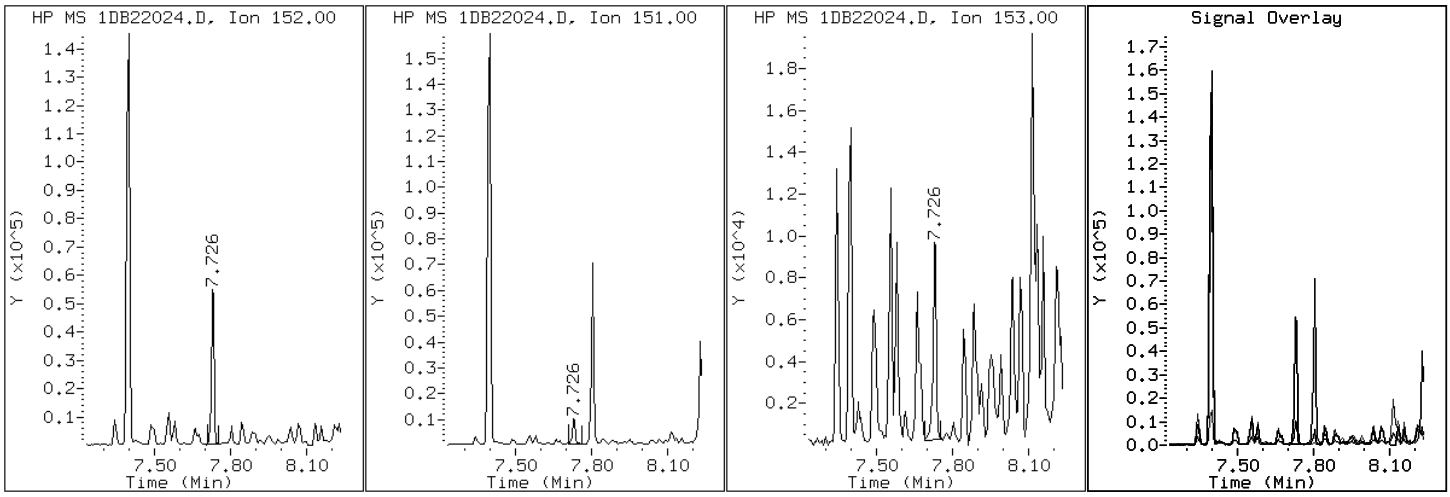
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

5 Acenaphthylene



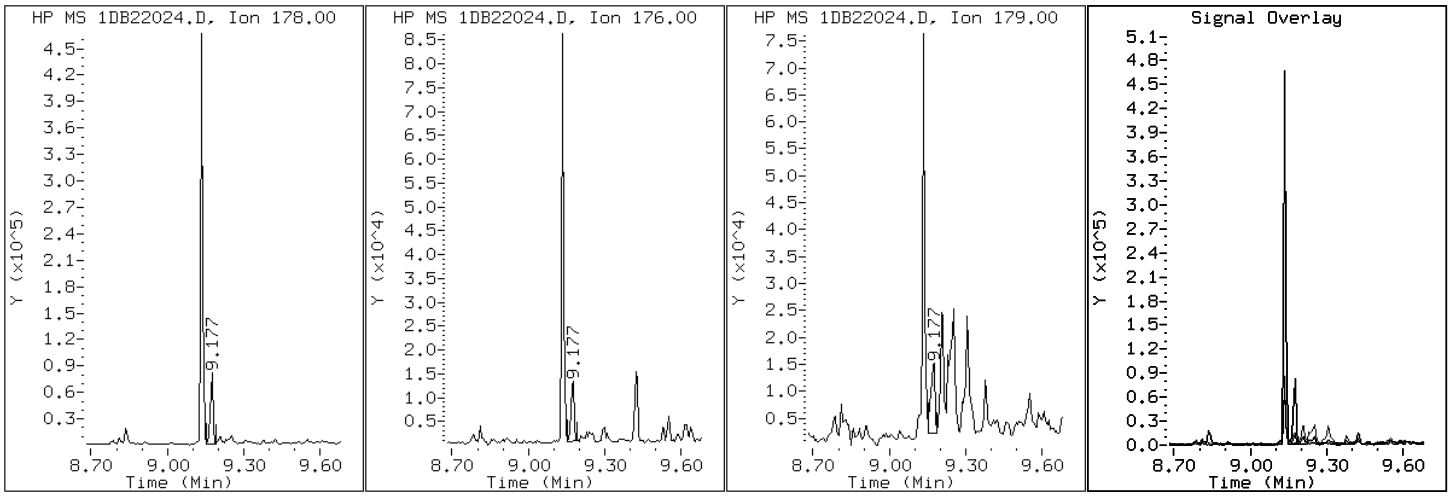
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

11 Anthracene



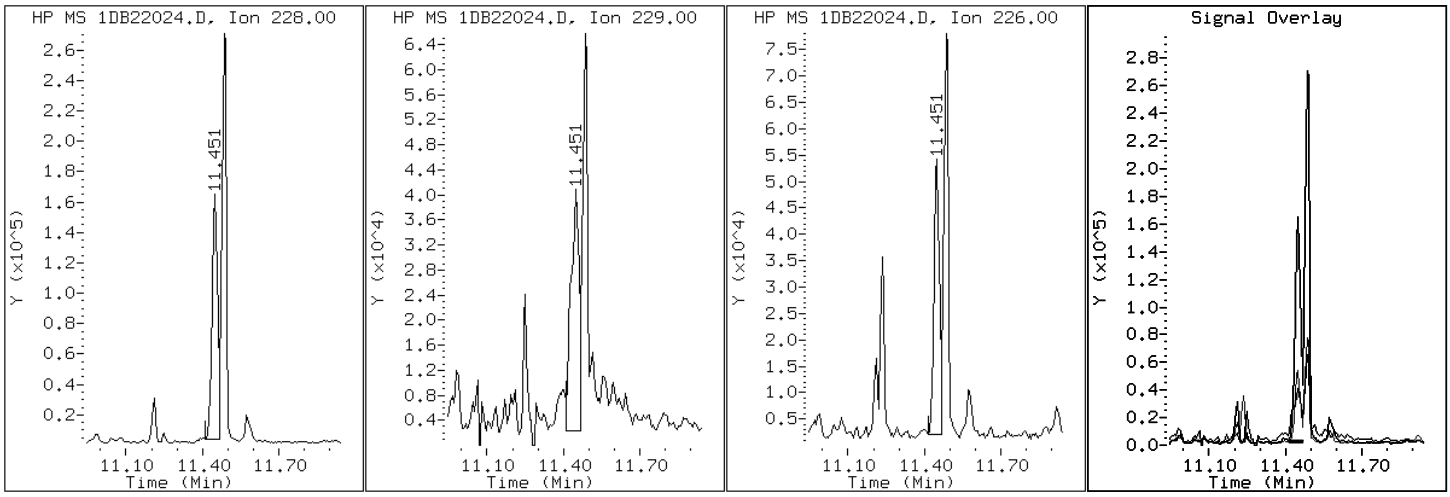
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

16 Benzo(a)anthracene



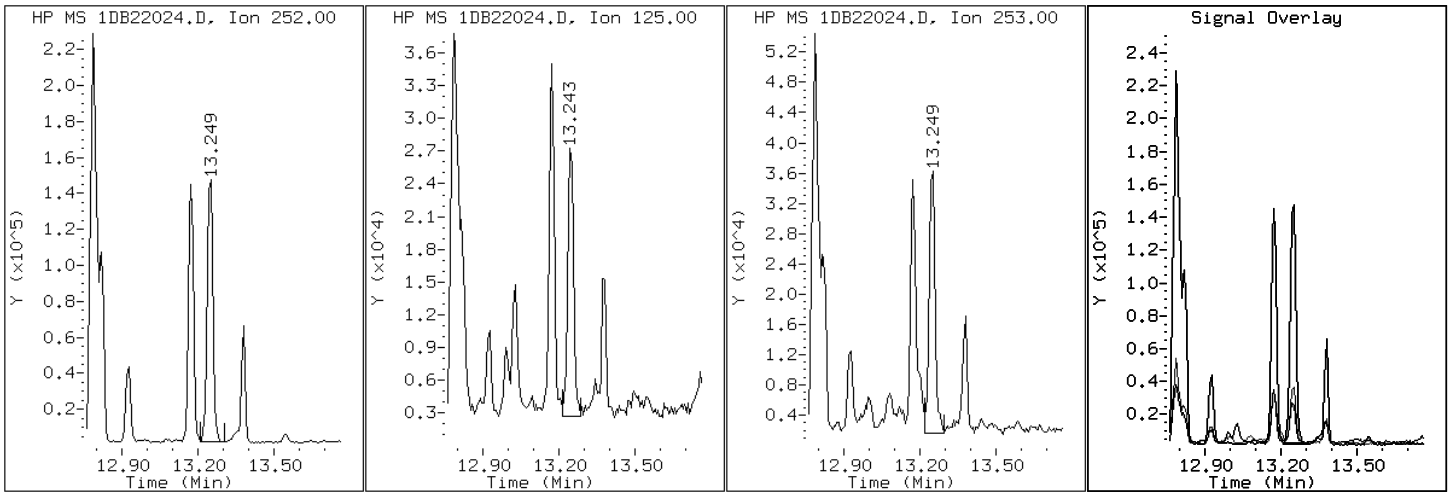
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

21 Benzo(a)pyrene



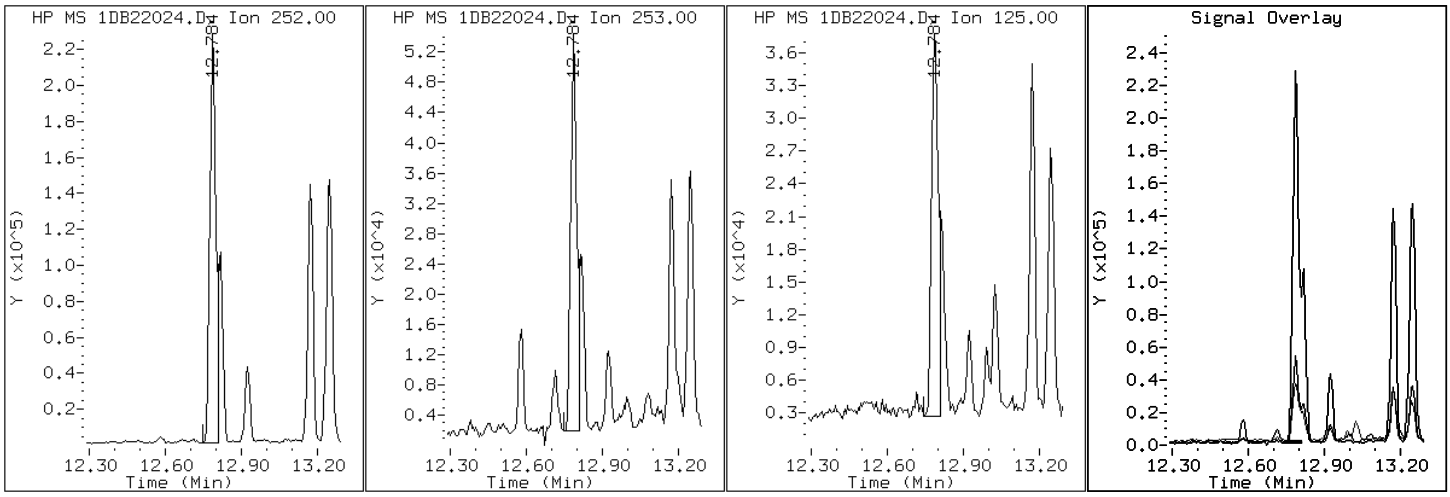
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

19 Benzo(b)fluoranthene



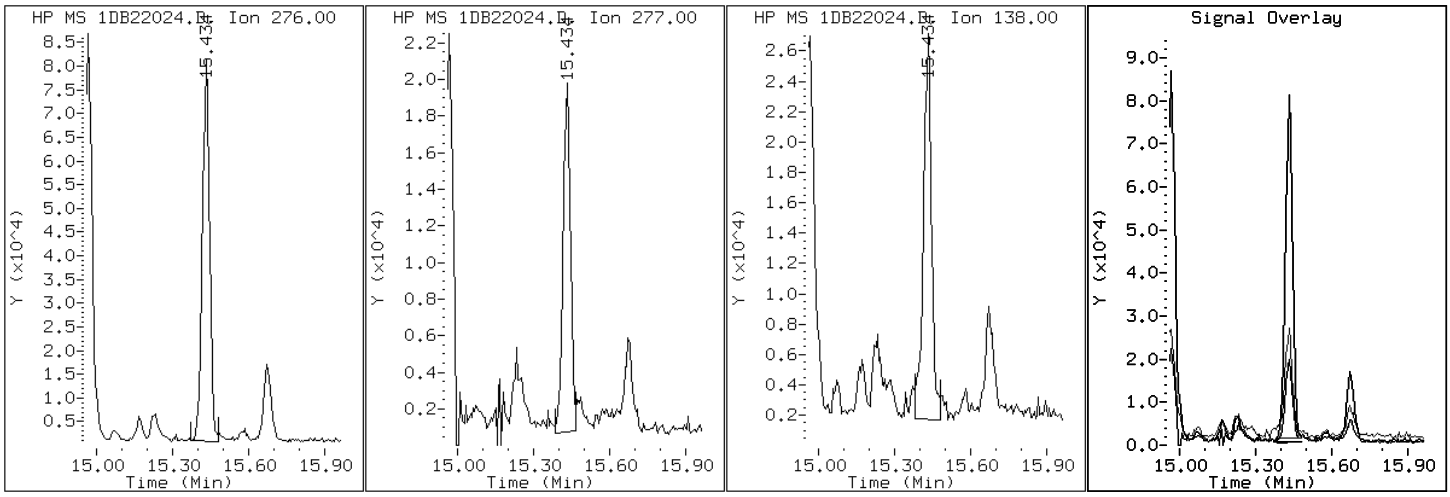
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

25 Benzo(g,h,i)perylene



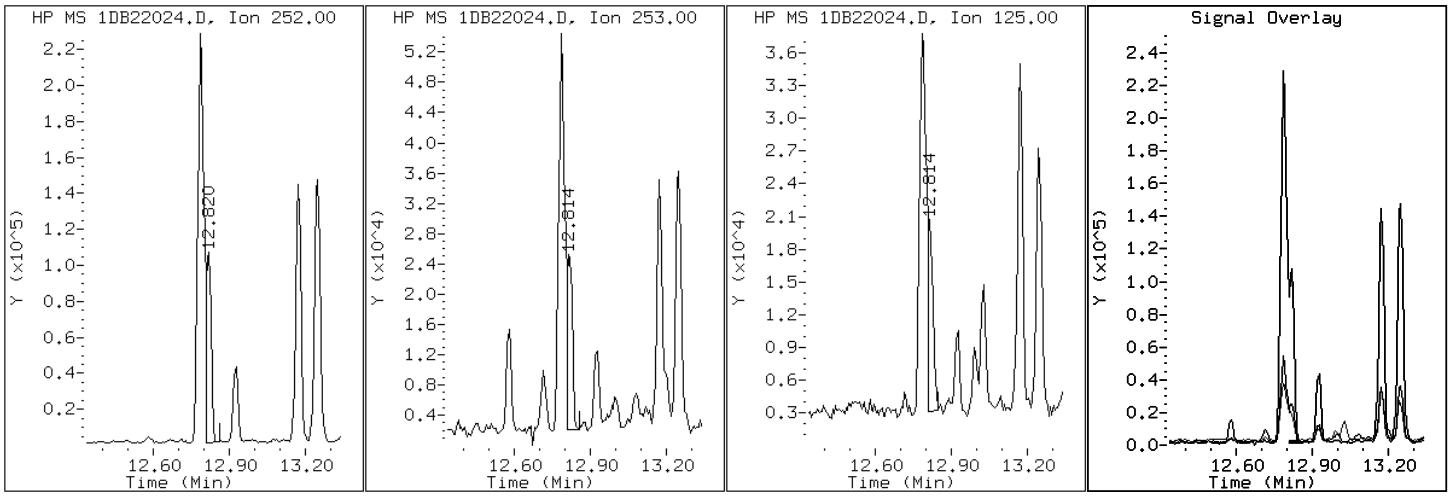
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

20 Benzo(k)fluoranthene



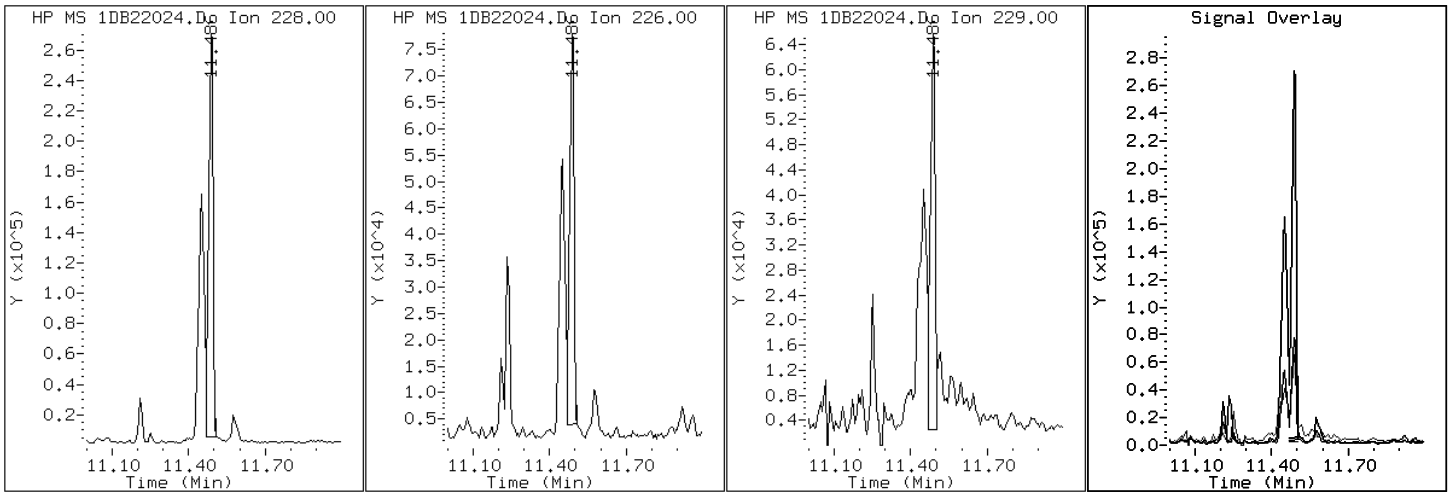
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

18 Chrysene



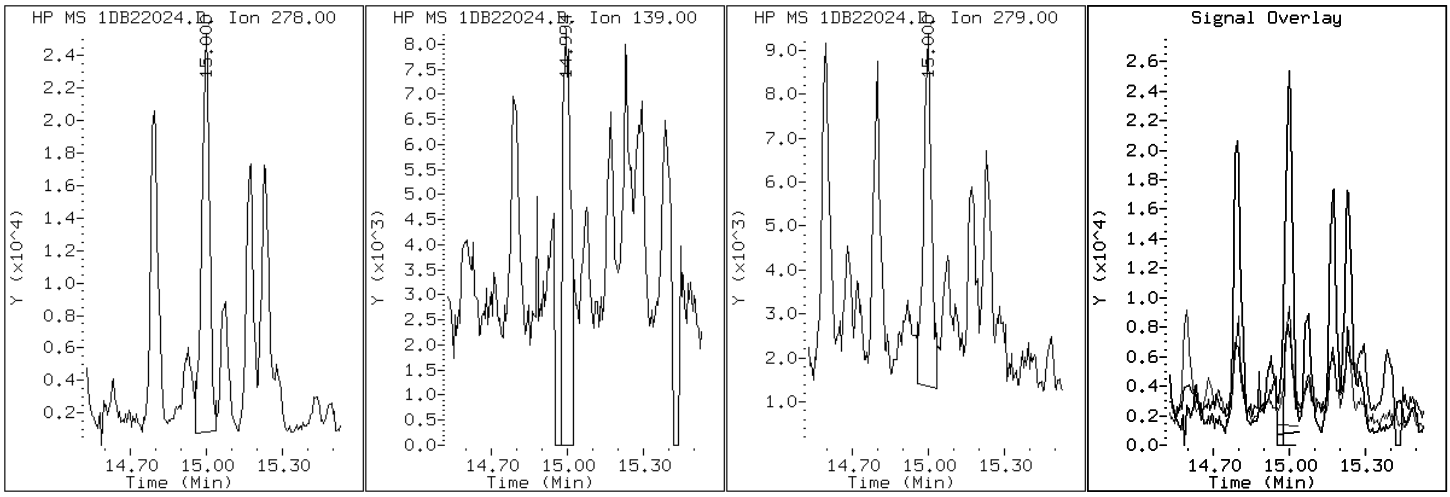
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

24 Dibenzo(a,h)anthracene



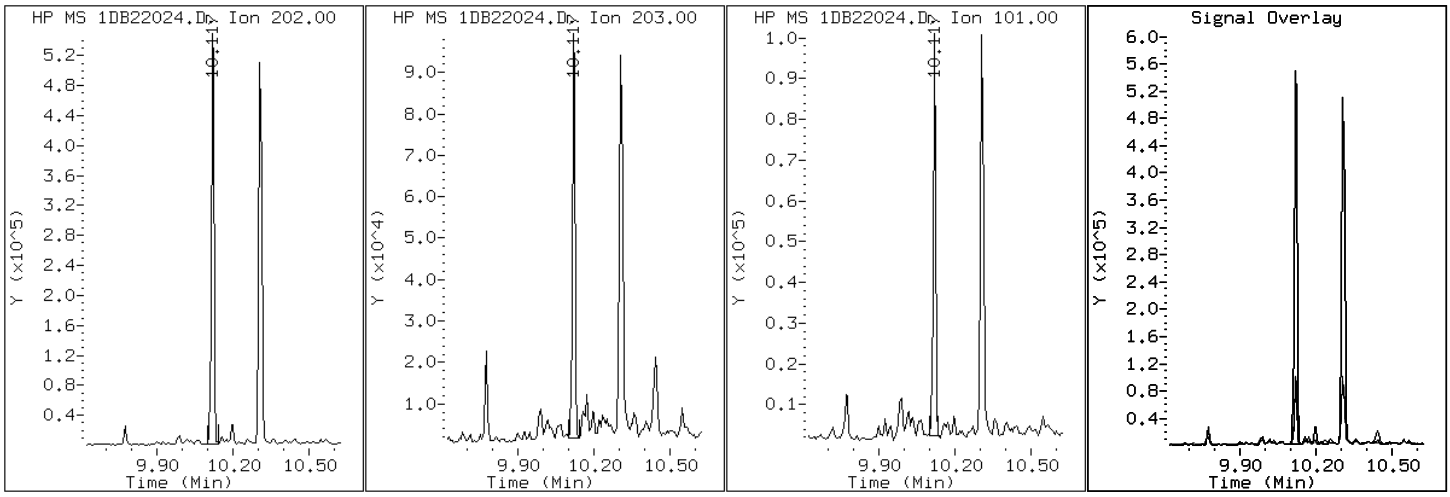
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

14 Fluoranthene



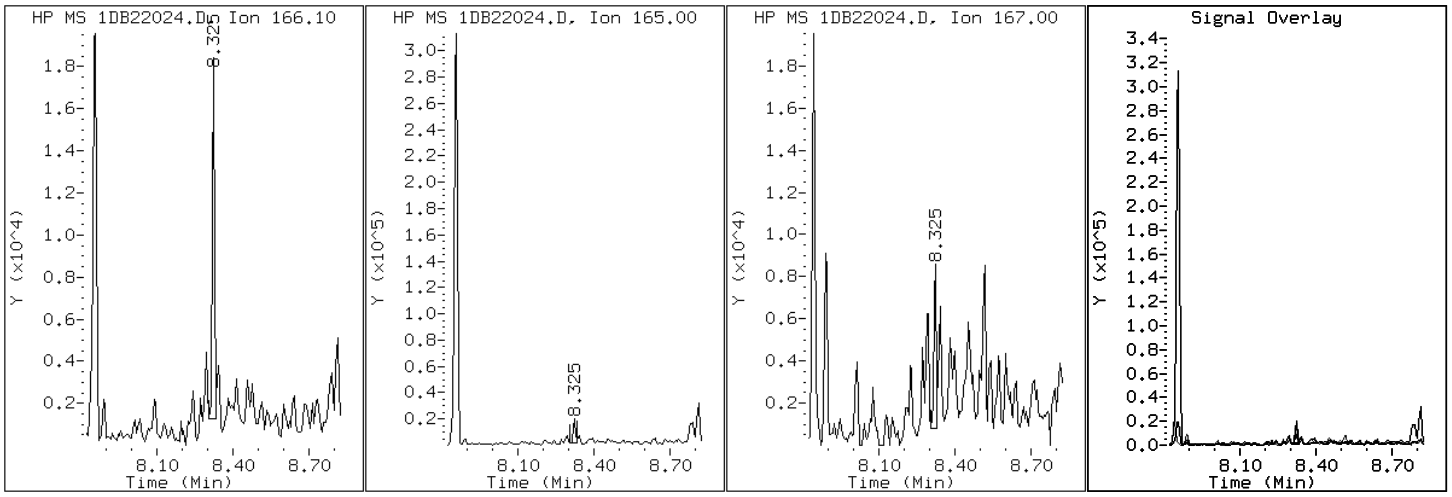
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

8 Fluorene



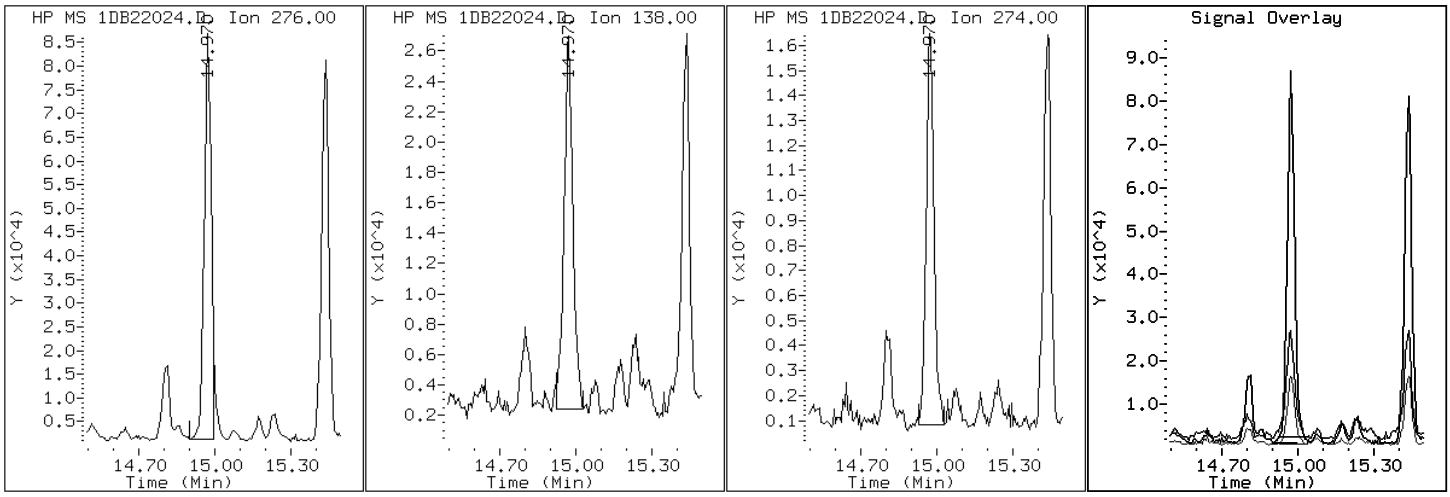
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

23 Indeno(1,2,3-cd)pyrene



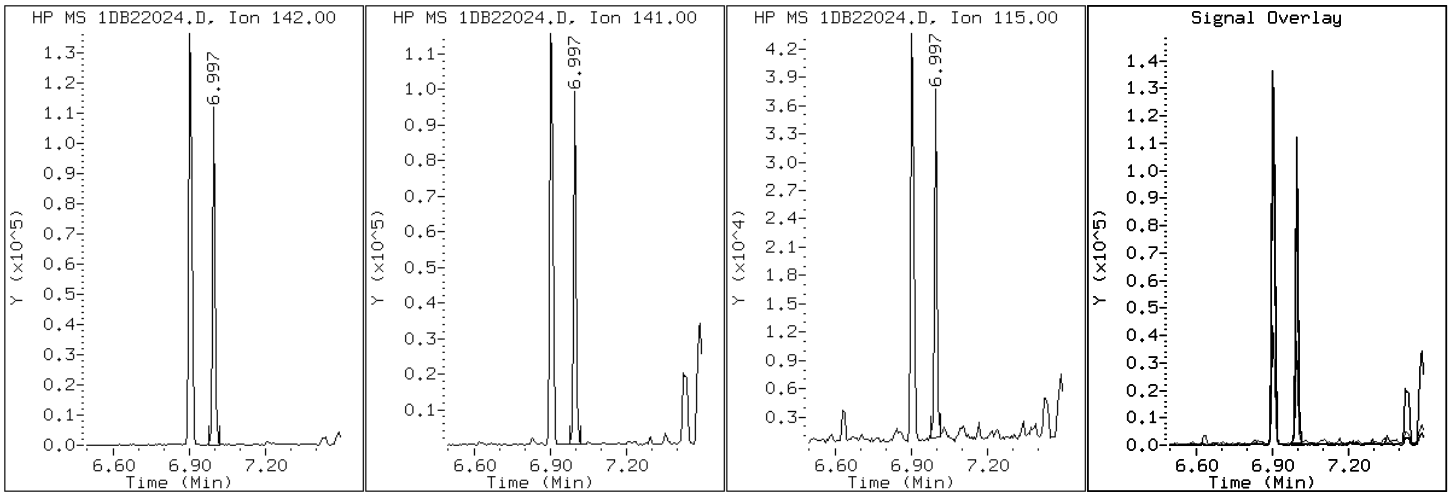
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

4 1-Methylnaphthalene



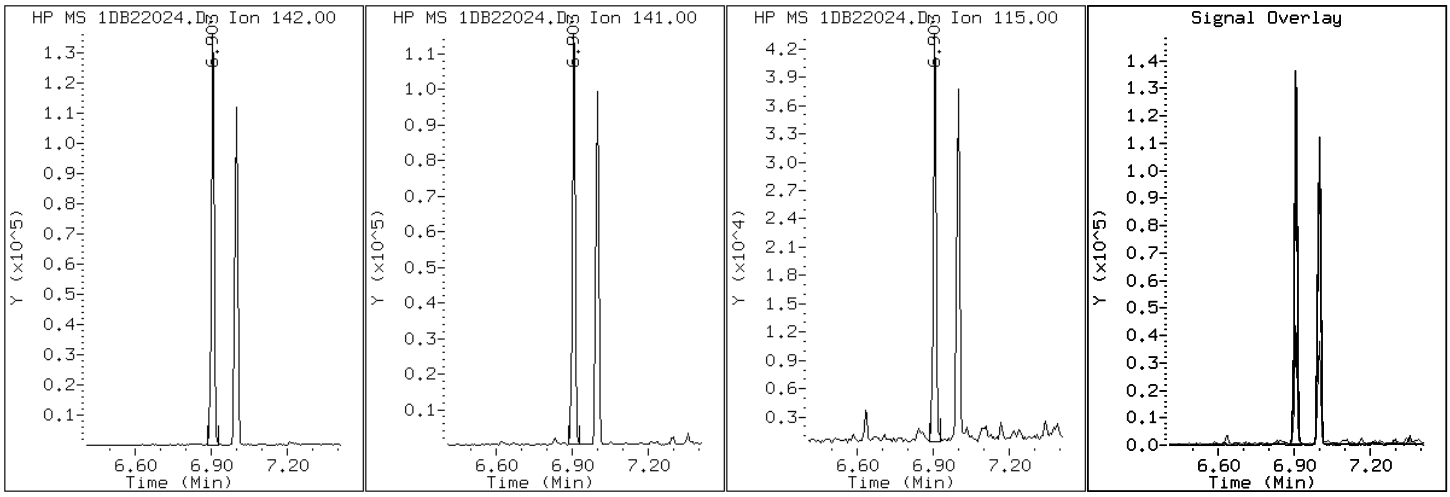
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

3 2-Methylnaphthalene



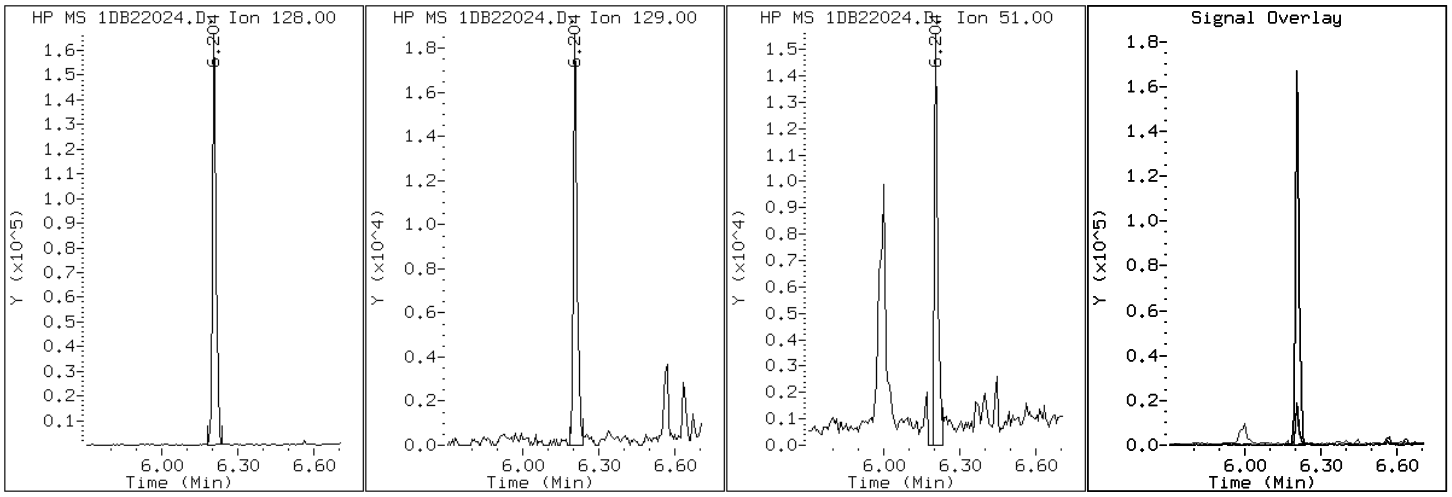
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

2 Naphthalene



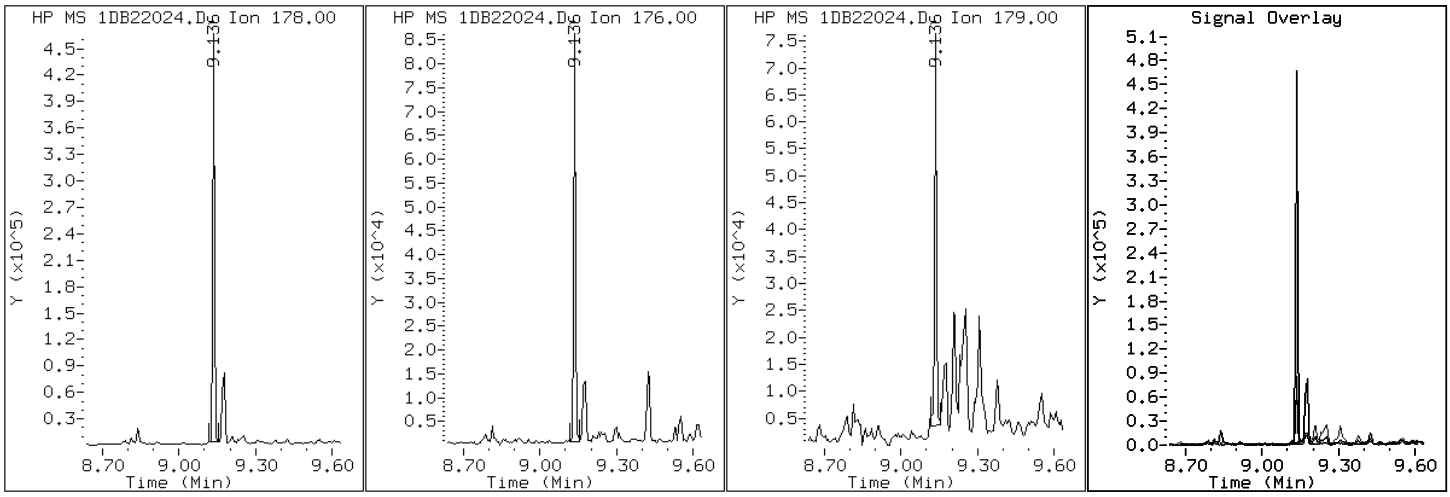
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

10 Phenanthrene



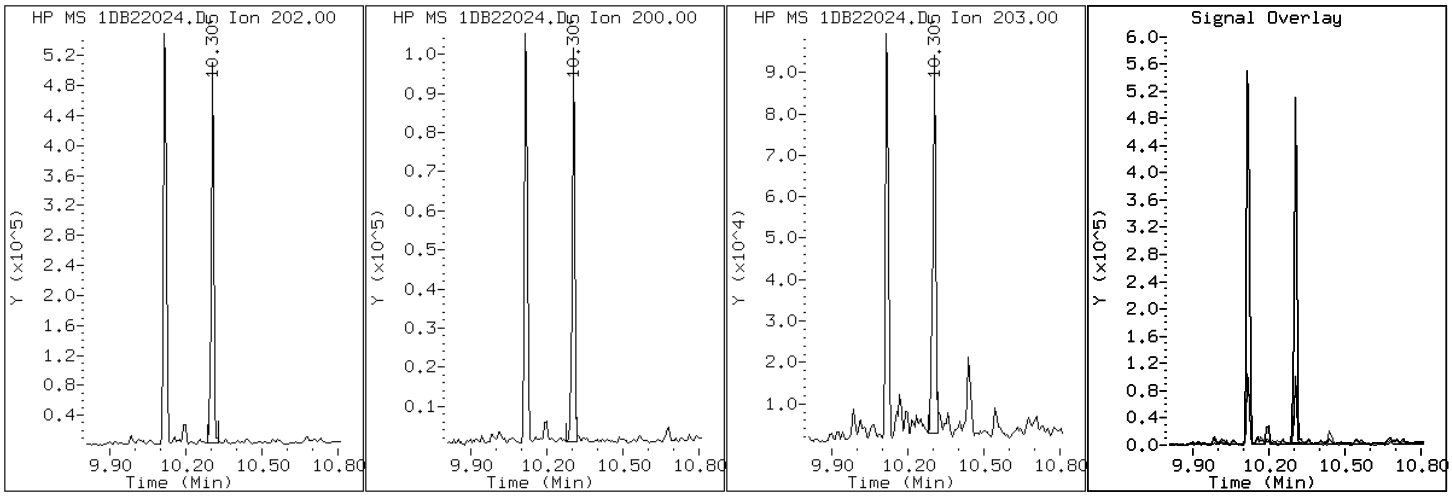
Data File: 1DB22024.D

Date: 22-FEB-2013 20:42

Client ID: FM0161AA-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-38-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB22024.D
Inj. Date and Time: 22-FEB-2013 20:42
Instrument ID: BSMSD.i
Client ID: FM0161AA-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

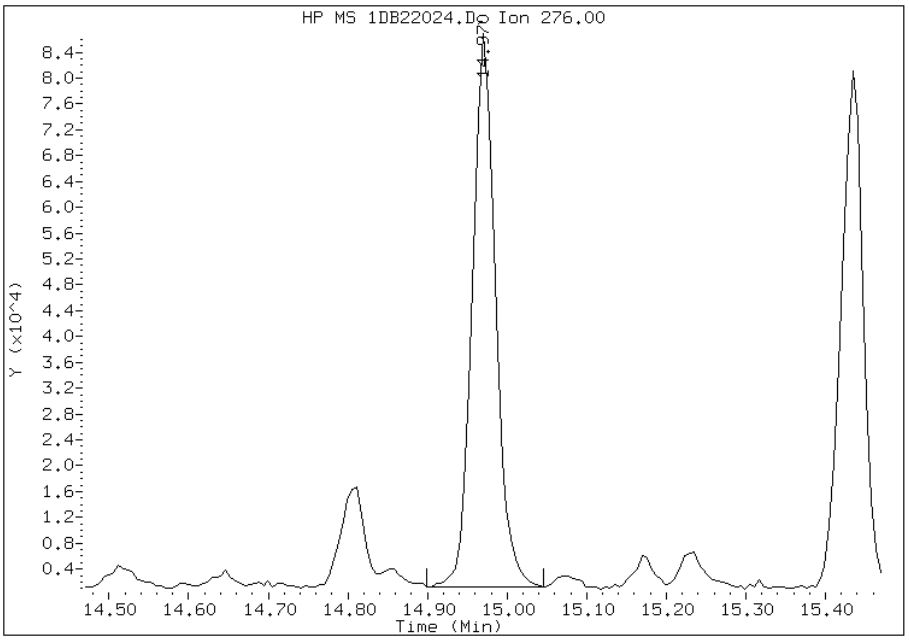
Processing Integration Results

RT: 14.97

Response: 173222

Amount: 2

Conc: 169



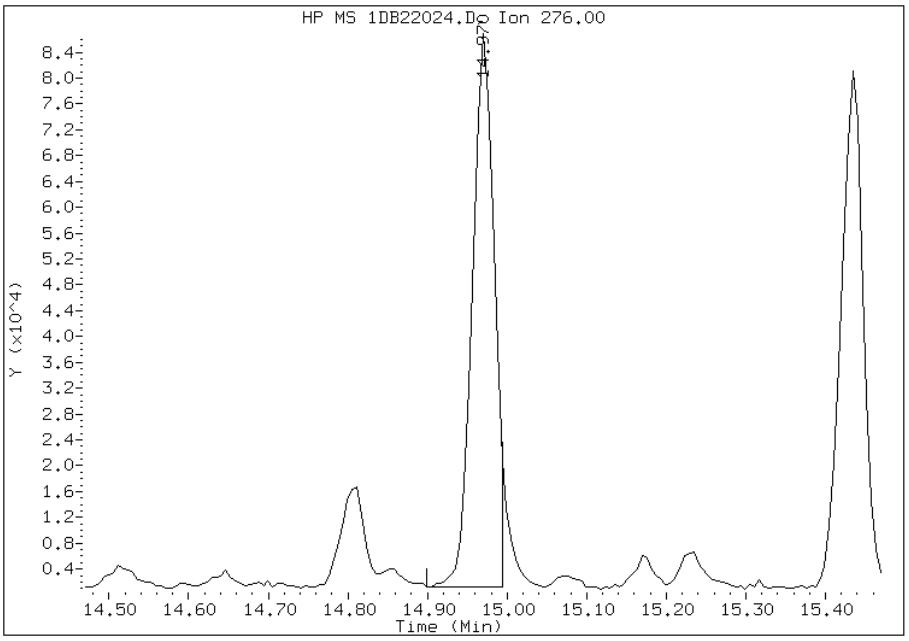
Manual Integration Results

RT: 14.97

Response: 162769

Amount: 2

Conc: 159



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 16:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161BB-CS | Lab Sample ID: 680-87545-39

Matrix: Solid | Lab File ID: 1AB25009.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 13:46

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 15.02(g) | Date Analyzed: 02/25/2013 15:44

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134820 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	26	J	54	6.8
120-12-7	Anthracene	33		11	5.7
56-55-3	Benzo[a]anthracene	130		11	5.3
50-32-8	Benzo[a]pyrene	95		14	7.1
205-99-2	Benzo[b]fluoranthene	150		17	8.3
191-24-2	Benzo[g,h,i]perylene	110		27	6.0
207-08-9	Benzo[k]fluoranthene	65		11	4.9
218-01-9	Chrysene	170		12	6.1
53-70-3	Dibenz(a,h)anthracene	34		27	5.6
206-44-0	Fluoranthene	130		27	5.4
86-73-7	Fluorene	14	J	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	99		27	9.7
90-12-0	1-Methylnaphthalene	75		54	6.0
91-57-6	2-Methylnaphthalene	88		54	9.7
91-20-3	Naphthalene	92		54	6.0
85-01-8	Phenanthrene	180		11	5.3
129-00-0	Pyrene	170		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25009.D
Lab Smp Id: 680-87545-A-39-A Client Smp ID: FM0161BB-CS
Inj Date : 25-FEB-2013 15:44
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87545-A-39-A
Misc Info : 680-87545-A-39-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	26.660	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.381	2.379	(1.000)	959743	40.0000	
* 6 Acenaphthene-d10	164	3.407	3.404	(1.000)	621077	40.0000	
* 10 Phenanthrene-d10	188	4.341	4.339	(1.000)	849042	40.0000	
$ 14 o-Terphenyl	230	4.619	4.622	(1.064)	80169	6.48908	589.0792
* 18 Chrysene-d12	240	6.355	6.353	(1.000)	445444	40.0000	
* 23 Perylene-d12	264	7.450	7.443	(1.000)	618747	40.0000	
2 Naphthalene	128	2.386	2.389	(1.002)	23439	1.01353	92.0079(Q)
3 2-Methylnaphthalene	141	2.792	2.790	(1.173)	11638	0.97482	88.4943
4 1-Methylnaphthalene	142	2.846	2.849	(1.195)	10962	0.82456	74.8532
5 Acenaphthylene	152	3.321	3.319	(0.975)	6576	0.28357	25.7424
9 Fluorene	166	3.732	3.730	(1.096)	2581	0.15261	13.8540(Q)
11 Phenanthrene	178	4.357	4.355	(1.004)	41100	1.94747	176.7914
12 Anthracene	178	4.389	4.387	(1.011)	7356	0.35884	32.5751
13 Carbazole	167	4.544	4.542	(1.047)	3266	0.18048	16.3839

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.212	5.215	(1.201)	31062	1.47204	133.6319
16 Pyrene	202	5.378	5.381	(0.846)	24862	1.90287	172.7432
17 Benzo(a)anthracene	228	6.345	6.342	(0.998)	19437	1.46136	132.6625
19 Chrysene	228	6.371	6.369	(1.003)	21725	1.82633	165.7942
20 Benzo(b)fluoranthene	252	7.167	7.165	(0.962)	25711	1.63919	148.8057(M)
21 Benzo(k)fluoranthene	252	7.178	7.181	(0.963)	11243	0.71247	64.6783(QM)
22 Benzo(a)pyrene	252	7.397	7.390	(0.993)	14961	1.04154	94.5510
24 Indeno(1,2,3-cd)pyrene	276	8.172	8.164	(1.097)	13449	1.09135	99.0724(M)
25 Dibenzo(a,h)anthracene	278	8.182	8.180	(1.098)	4800	0.37378	33.9314
26 Benzo(g,h,i)perylene	276	8.375	8.367	(1.124)	16283	1.24229	112.7753

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB25009.D

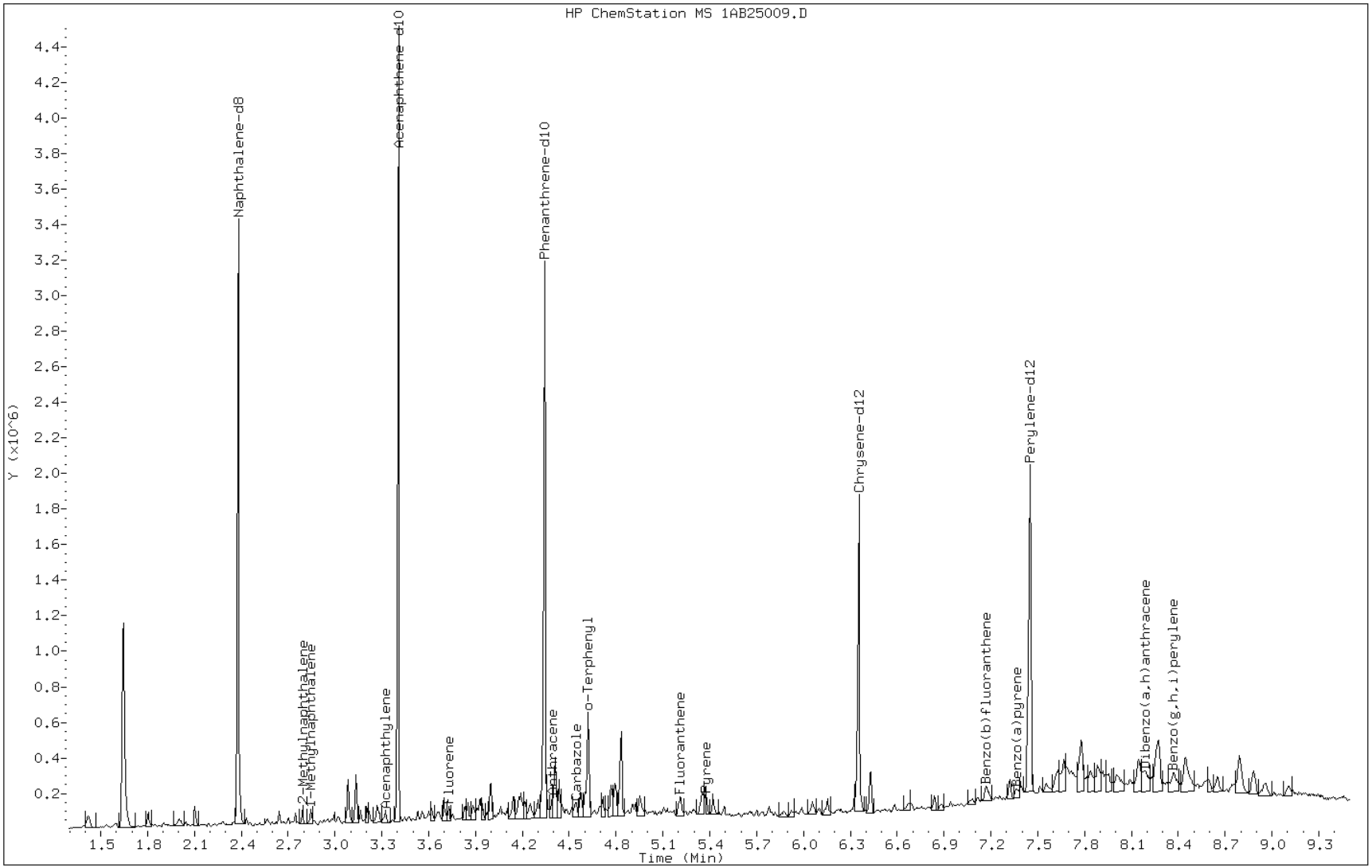
Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A

Operator: SCC



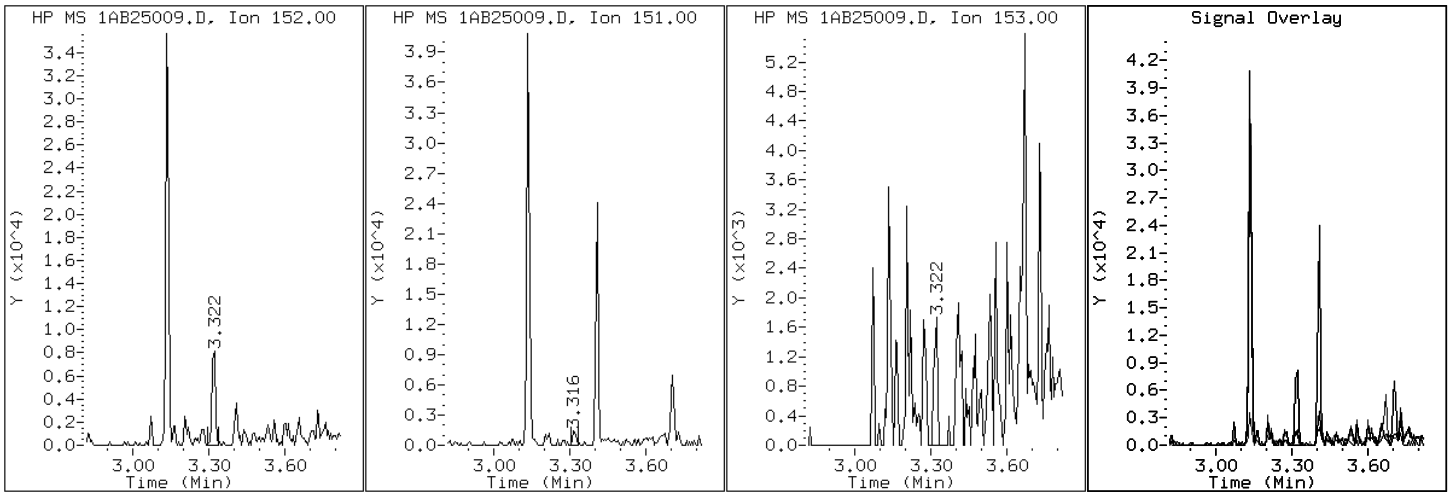
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

5 Acenaphthylene



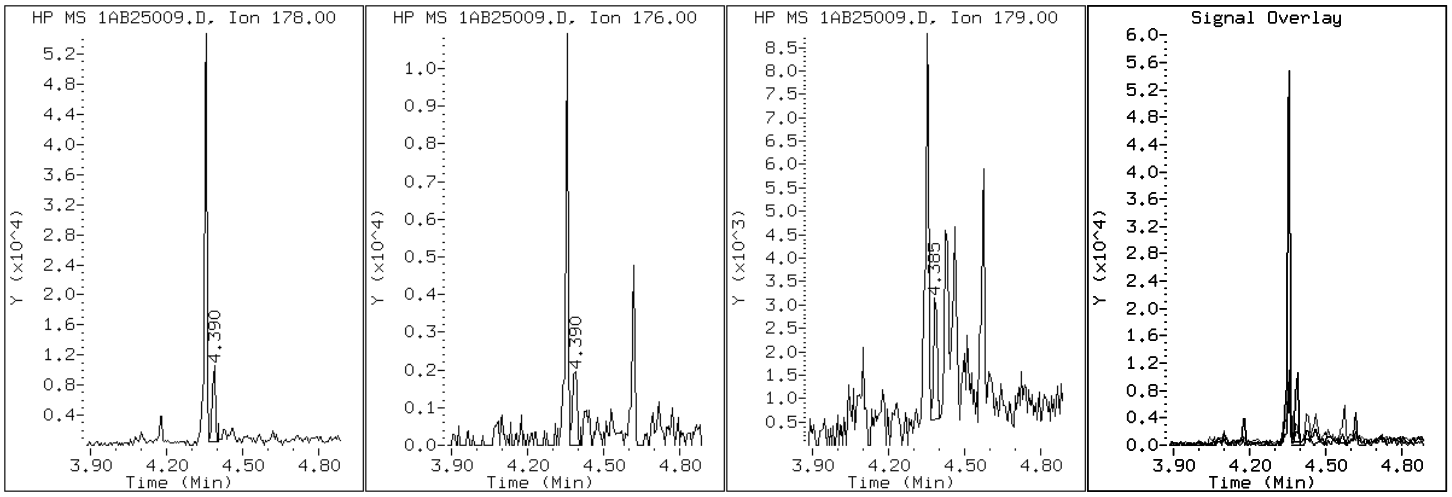
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

12 Anthracene



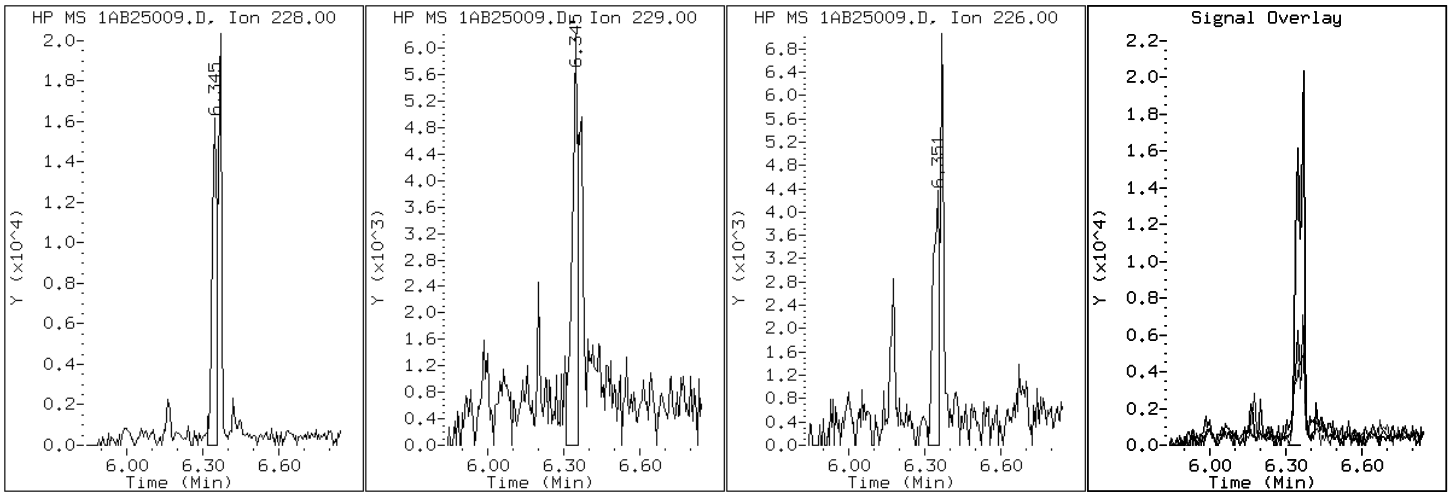
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

17 Benzo(a)anthracene



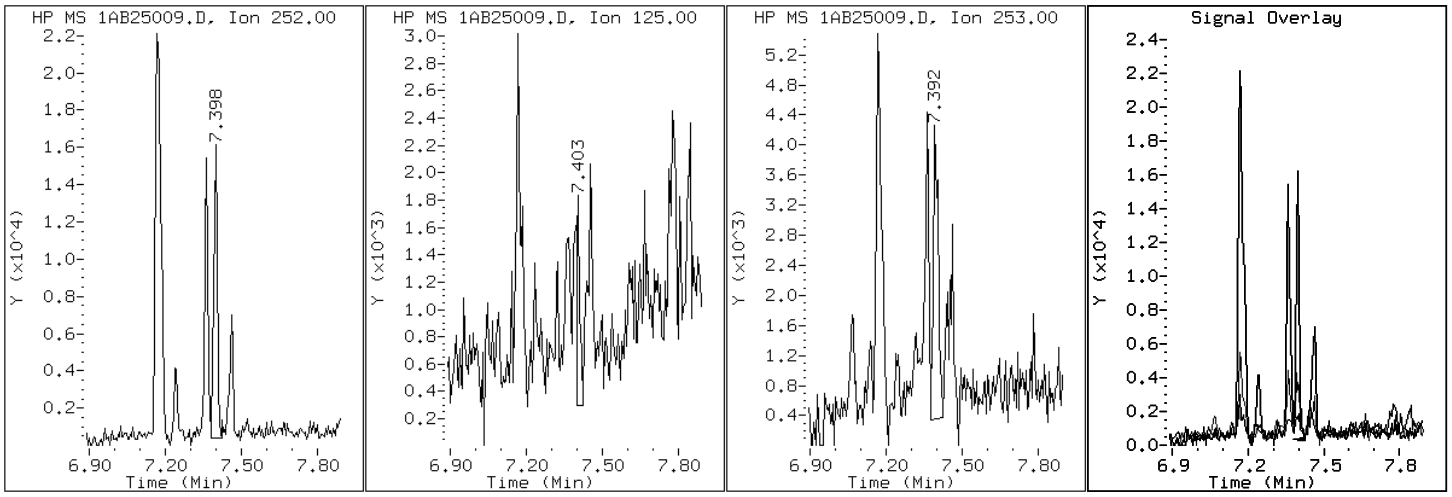
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

22 Benzo(a)pyrene



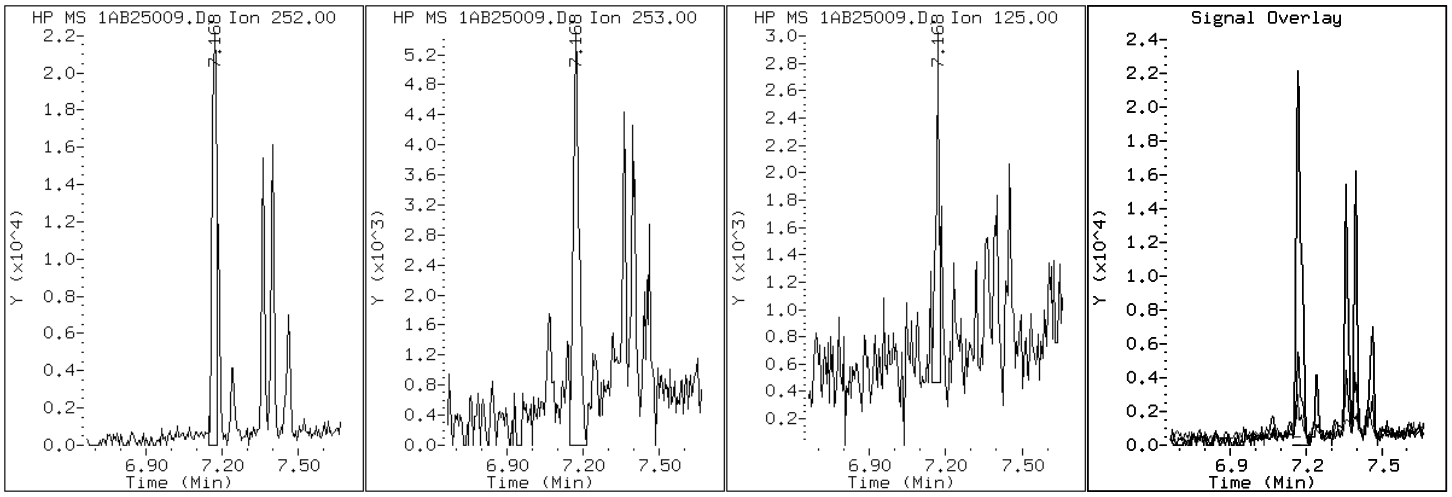
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

20 Benzo(b)fluoranthene



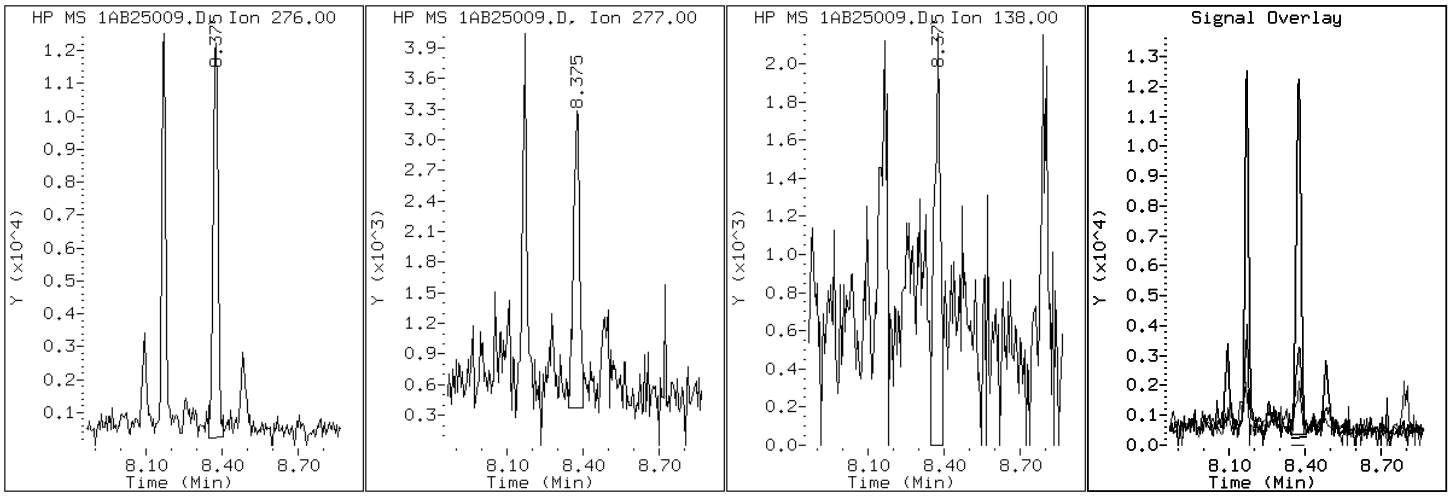
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

26 Benzo(g,h,i)perylene



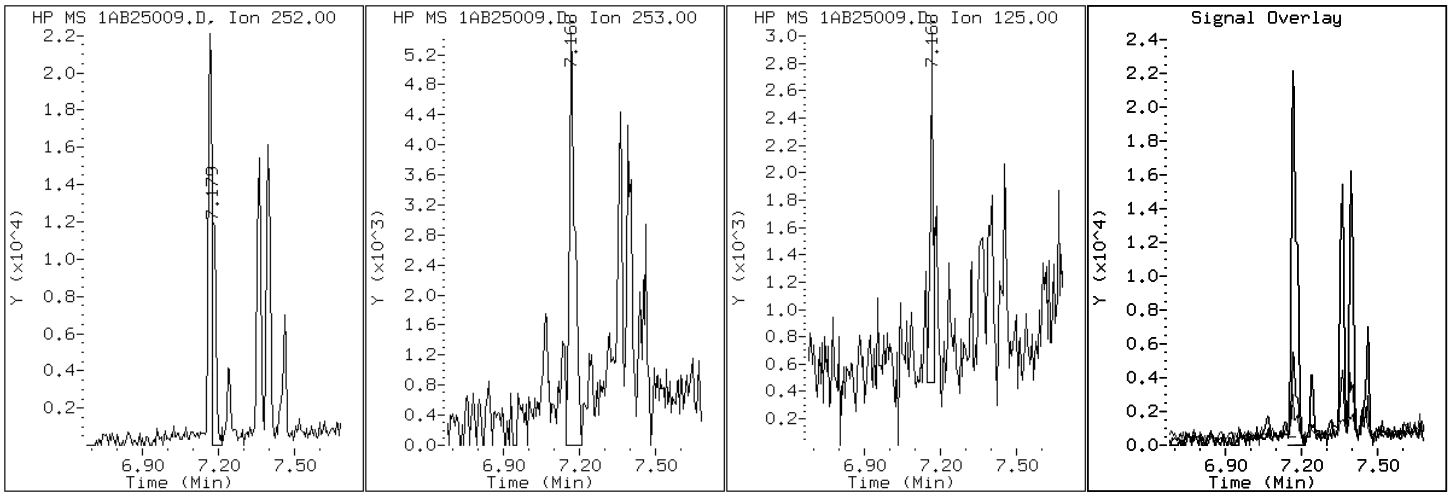
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

21 Benzo(k)fluoranthene



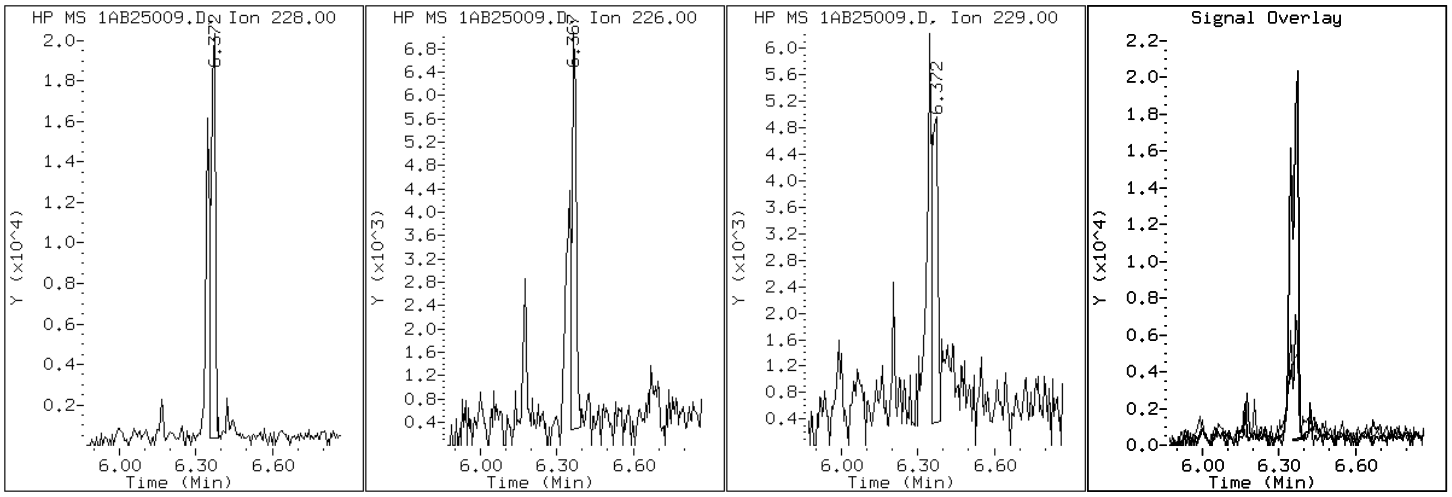
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

19 Chrysene



Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

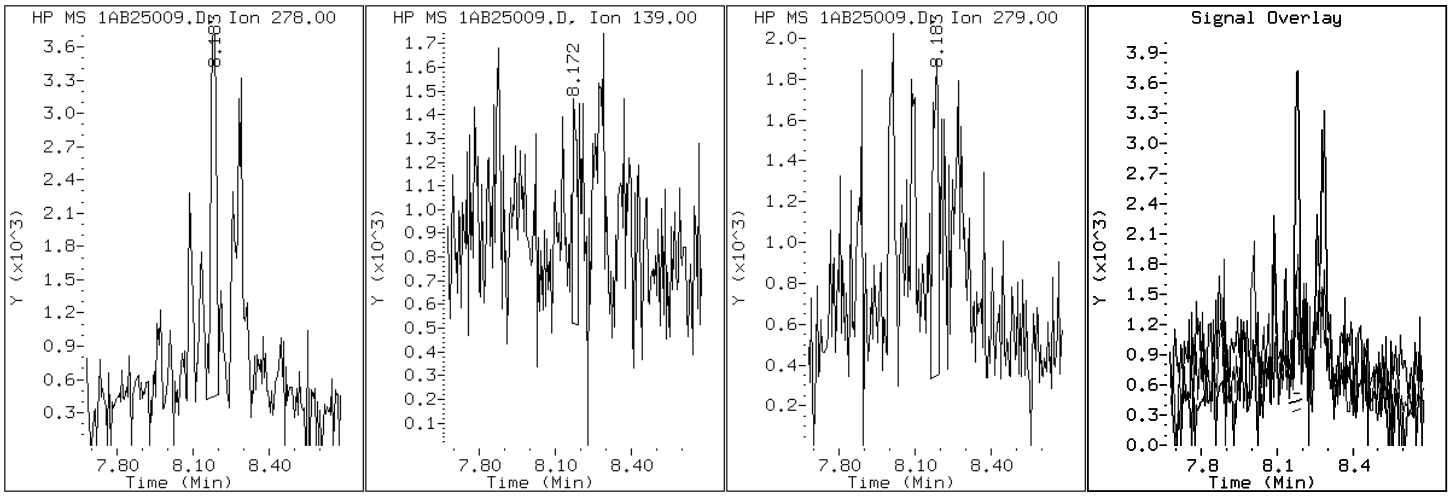
Client ID: FM0161BB-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A

Operator: SCC

25 Dibenzo(a,h)anthracene



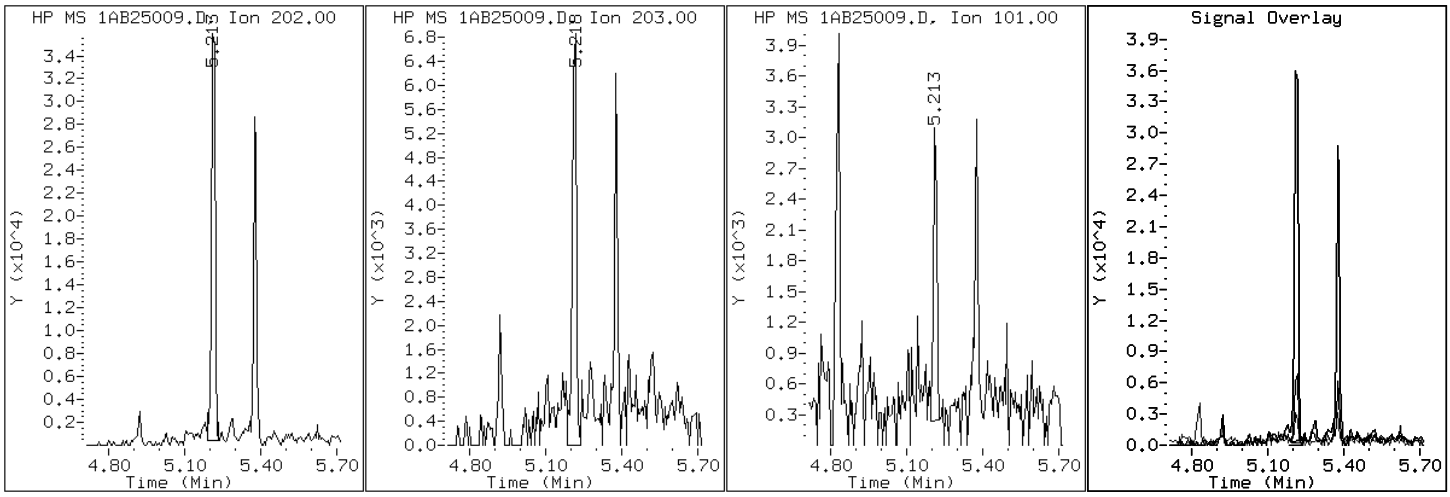
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

15 Fluoranthene



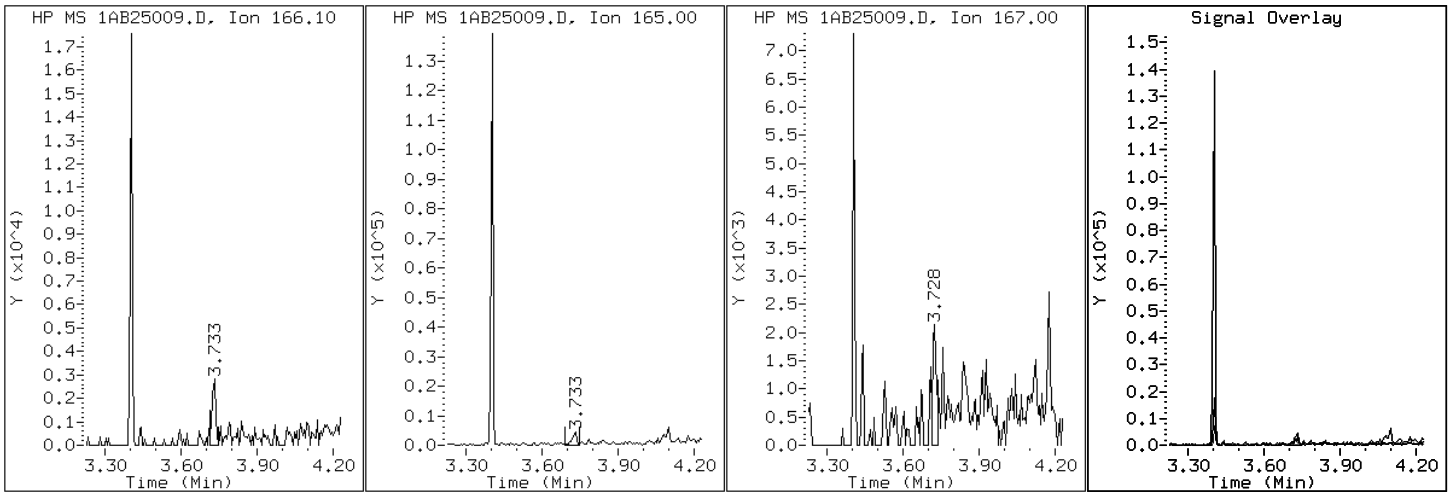
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

9 Fluorene



Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

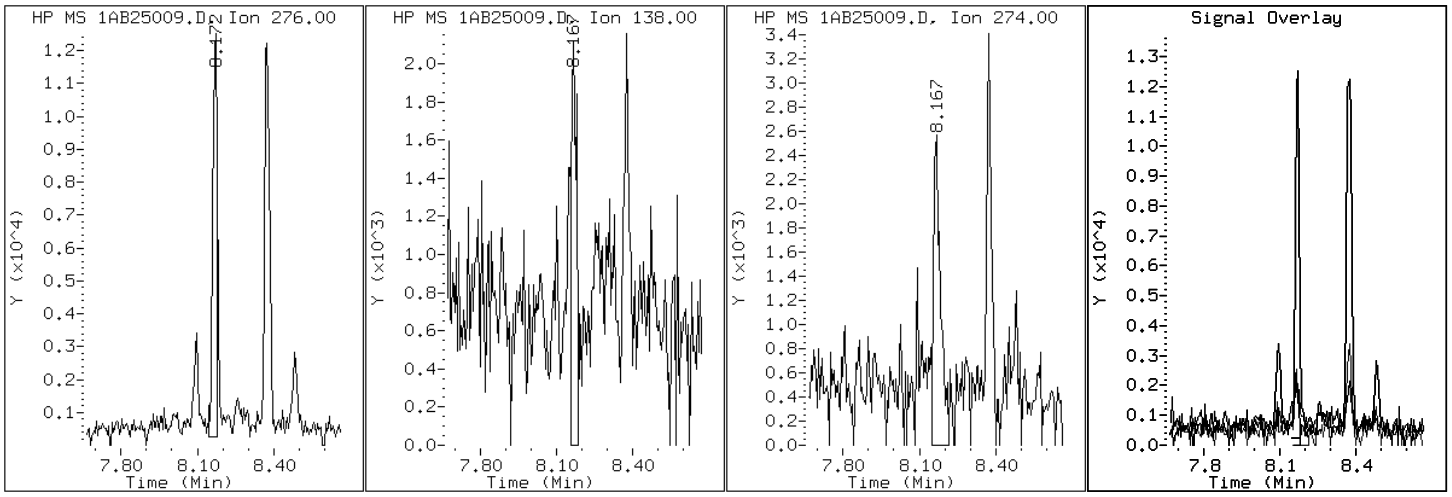
Client ID: FM0161BB-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



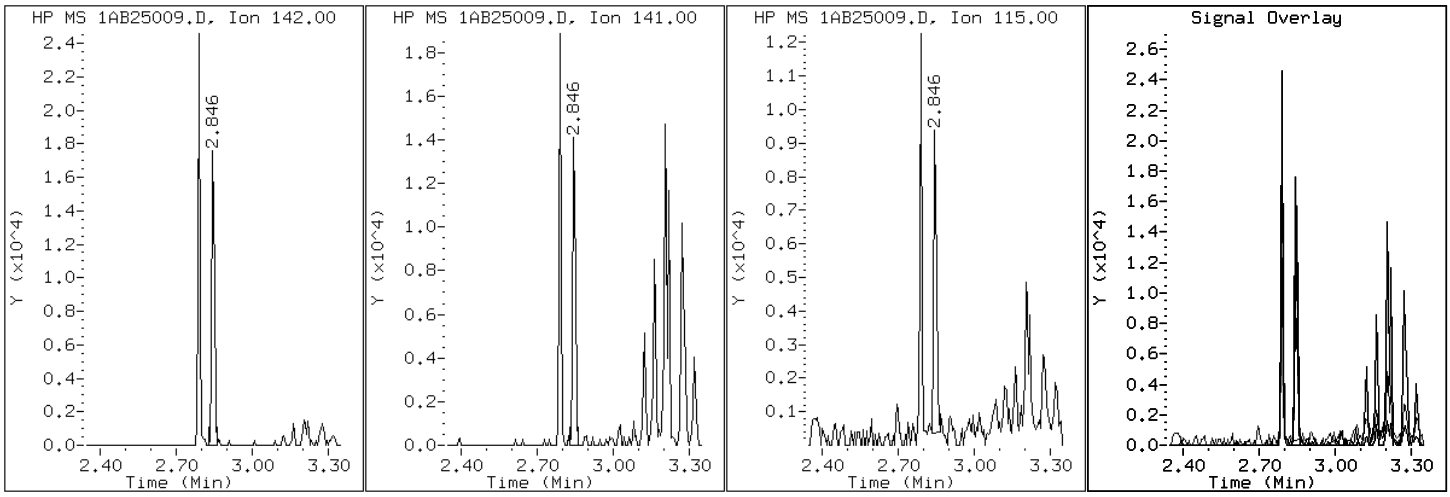
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

4 1-Methylnaphthalene



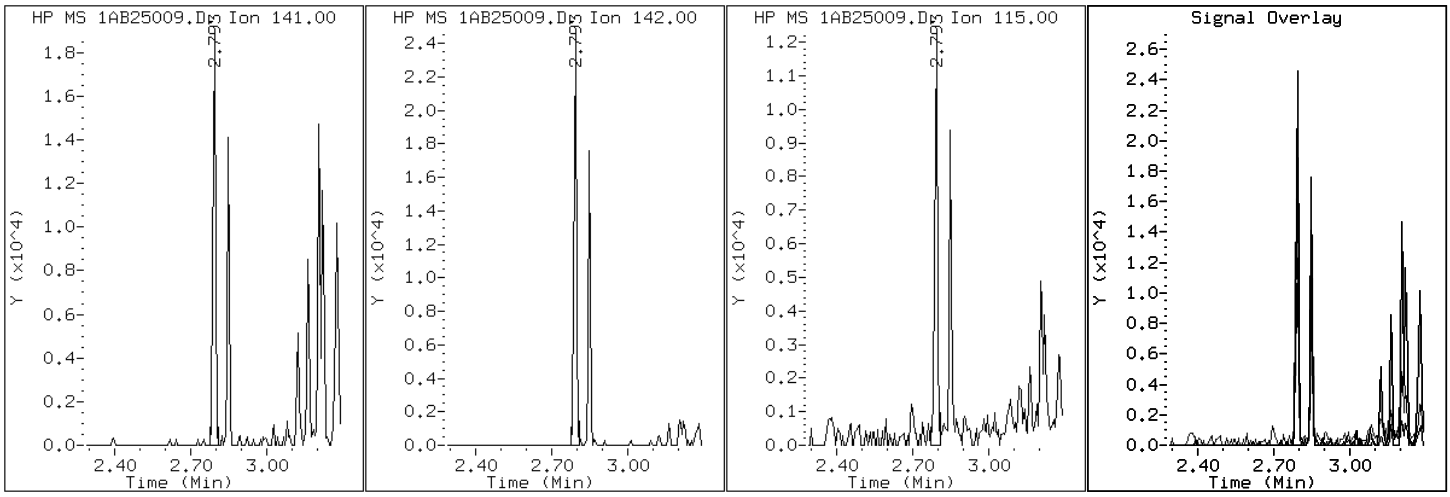
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

3 2-Methylnaphthalene



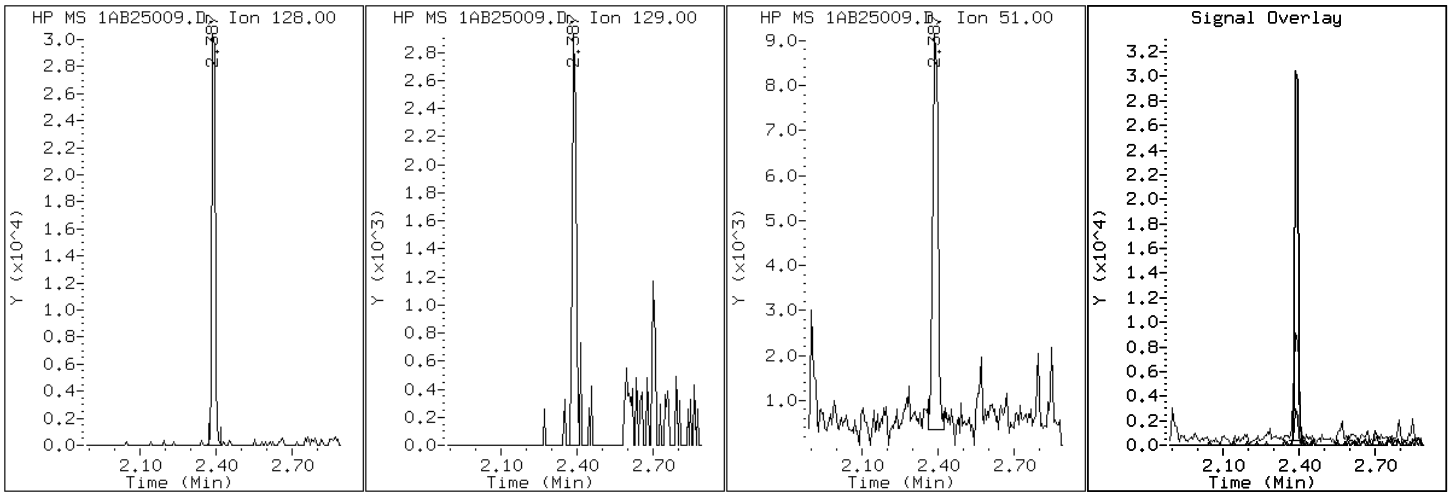
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

2 Naphthalene



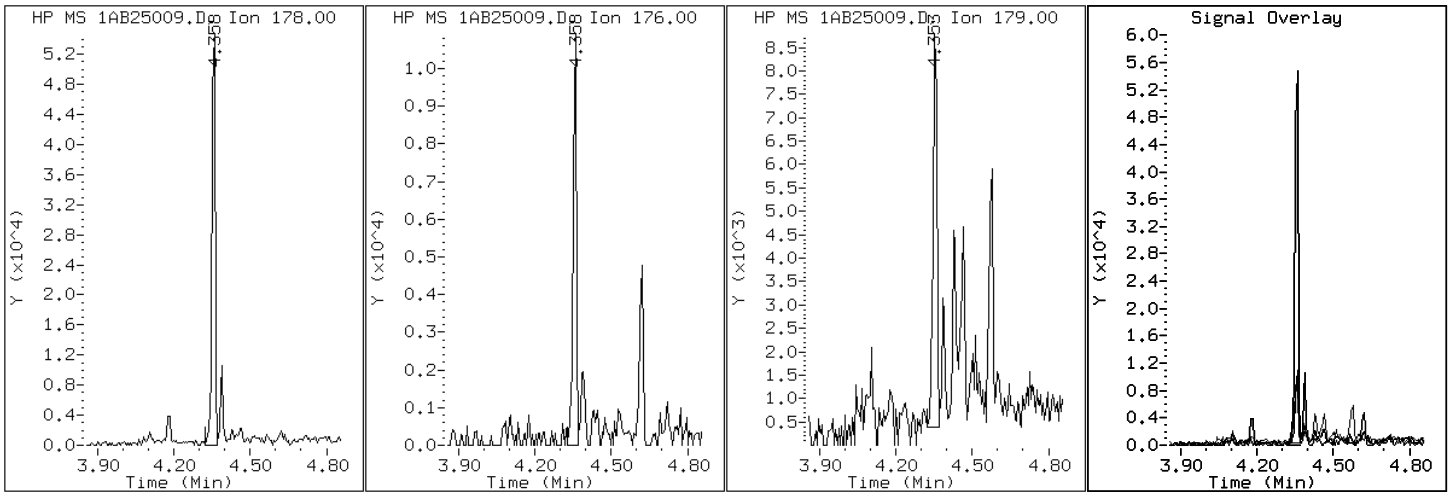
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

11 Phenanthrene



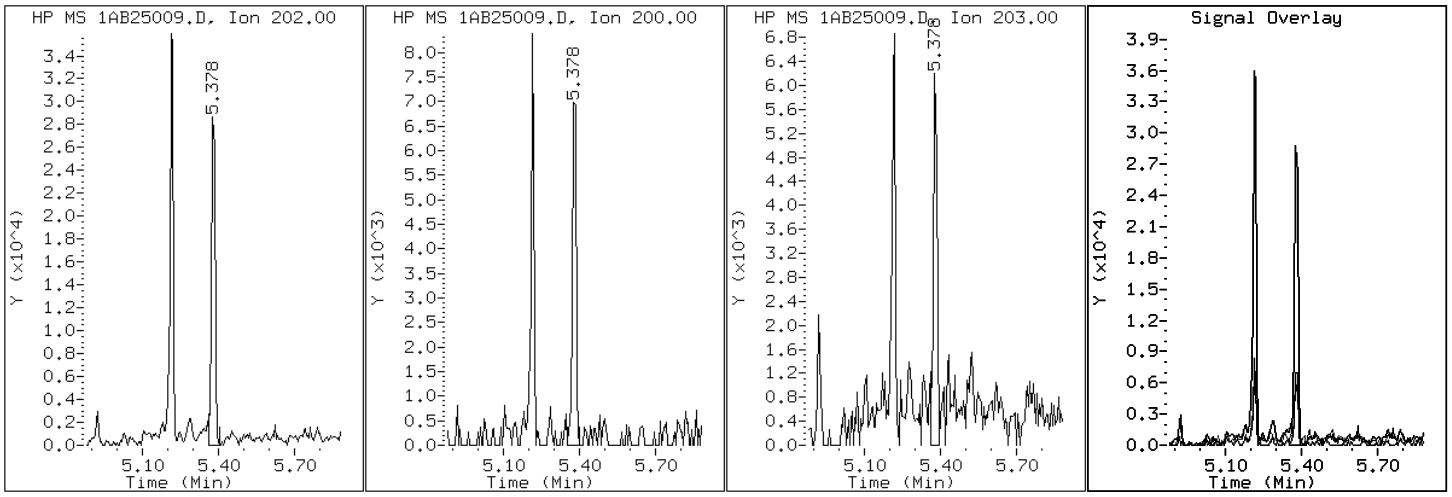
Data File: 1AB25009.D

Date: 25-FEB-2013 15:44

Client ID: FM0161BB-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-39-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB25009.D
Inj. Date and Time: 25-FEB-2013 15:44
Instrument ID: BSMA5973.i
Client ID: FM0161BB-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/27/2013

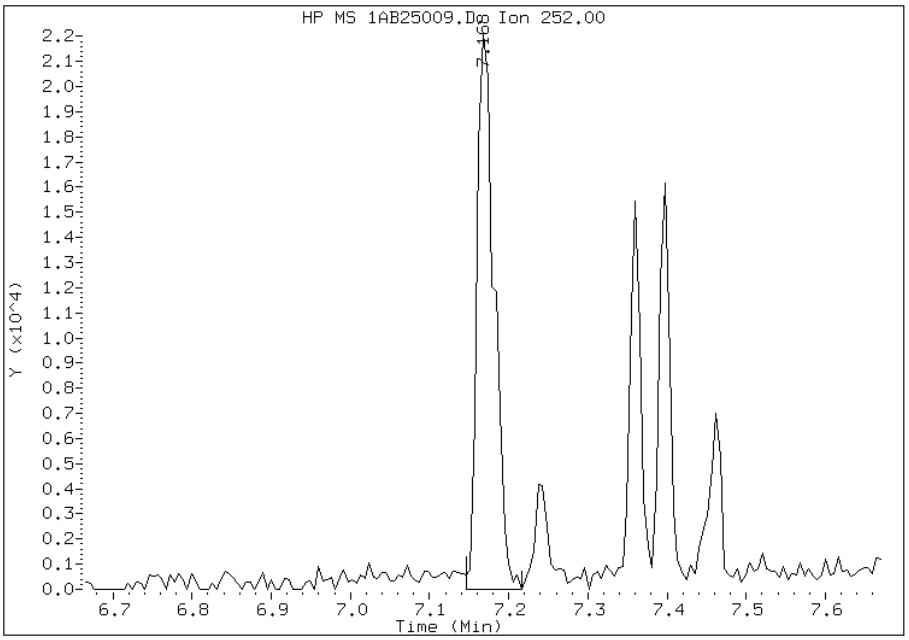
Processing Integration Results

RT: 7.17

Response: 33150

Amount: 2

Conc: 192



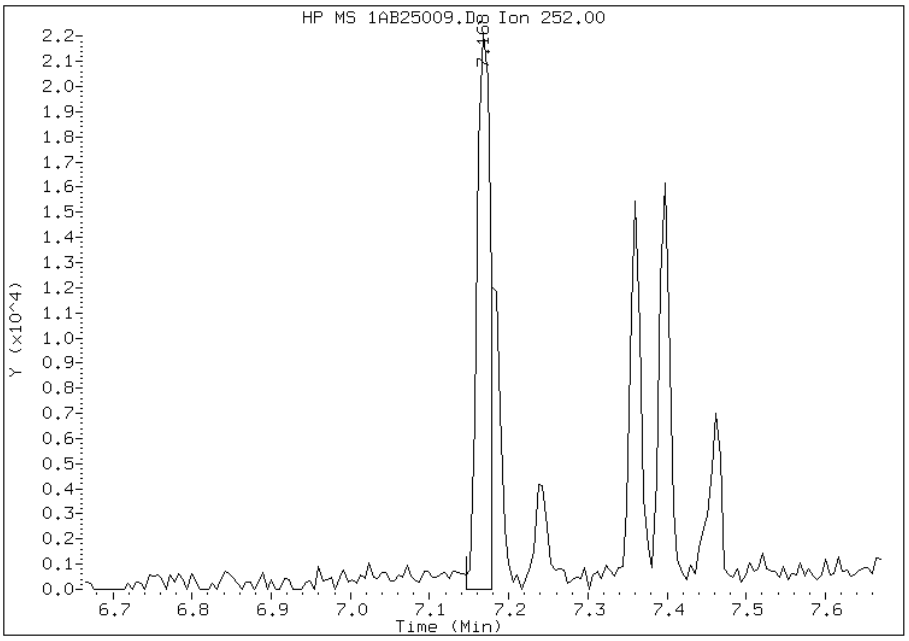
Manual Integration Results

RT: 7.17

Response: 25711

Amount: 2

Conc: 149



Manually Integrated By: cantins
Modification Date: 27-Feb-2013 10:14
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB25009.D
Inj. Date and Time: 25-FEB-2013 15:44
Instrument ID: BSMA5973.i
Client ID: FM0161BB-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/27/2013

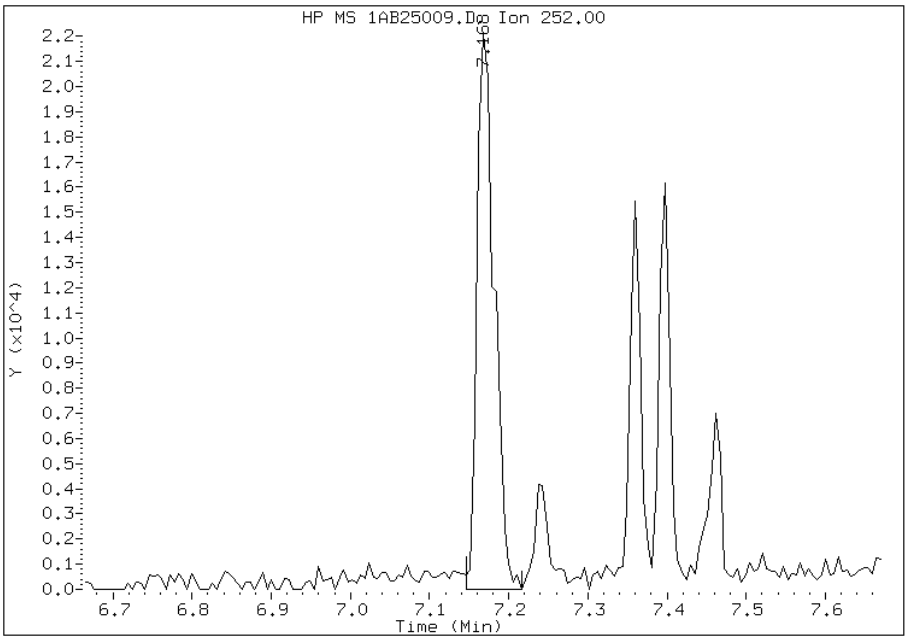
Processing Integration Results

RT: 7.17

Response: 33150

Amount: 2

Conc: 191



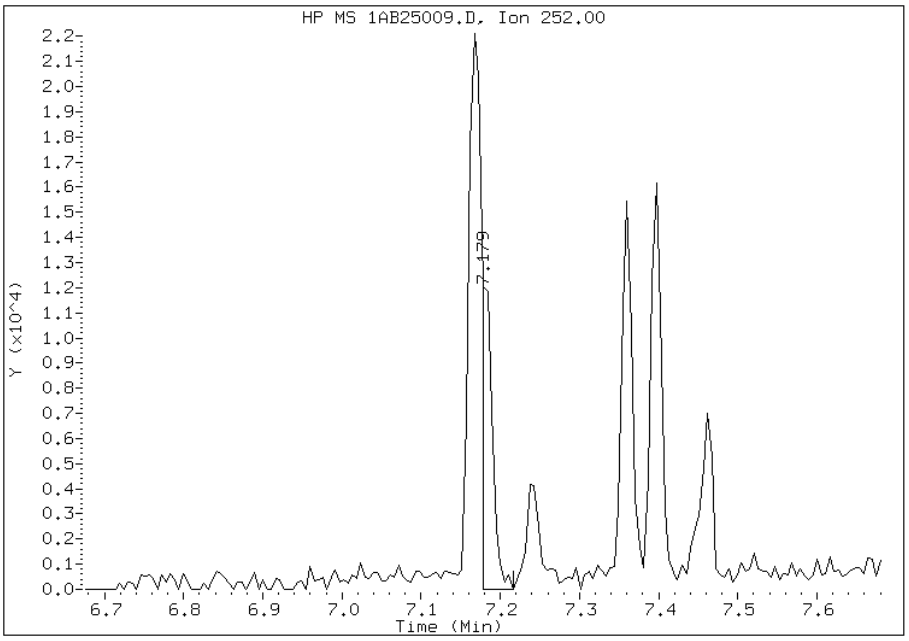
Manual Integration Results

RT: 7.18

Response: 11243

Amount: 1

Conc: 65



Manually Integrated By: cantins
Modification Date: 27-Feb-2013 10:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB25009.D
Inj. Date and Time: 25-FEB-2013 15:44
Instrument ID: BSMA5973.i
Client ID: FM0161BB-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/27/2013

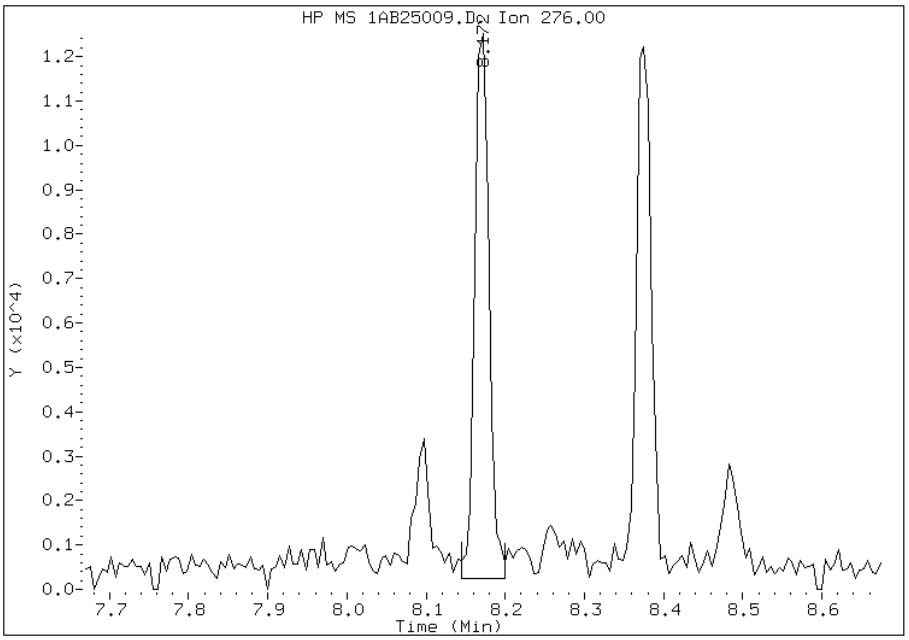
Processing Integration Results

RT: 8.17

Response: 15333

Amount: 1

Conc: 113



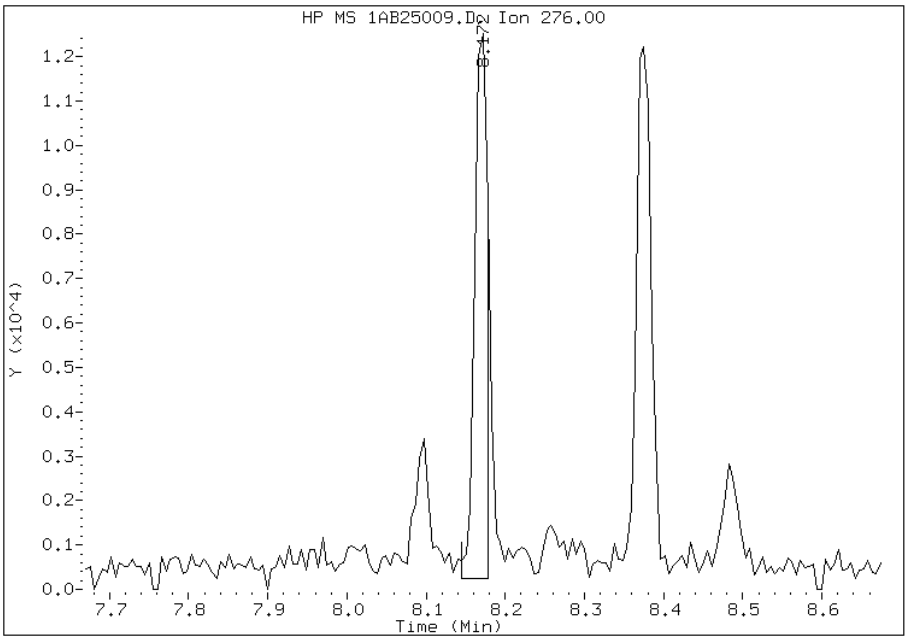
Manual Integration Results

RT: 8.17

Response: 13449

Amount: 1

Conc: 99



Manually Integrated By: cantins
Modification Date: 27-Feb-2013 10:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161CC-CS | Lab Sample ID: 680-87545-40

Matrix: Solid | Lab File ID: 1AB25010.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 13:56

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 15.11(g) | Date Analyzed: 02/25/2013 15:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 1.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134820 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	25	J	40	5.1
120-12-7	Anthracene	40		8.5	4.2
56-55-3	Benzo[a]anthracene	110		8.1	3.9
50-32-8	Benzo[a]pyrene	80		11	5.3
205-99-2	Benzo[b]fluoranthene	160		12	6.2
191-24-2	Benzo[g,h,i]perylene	82		20	4.4
207-08-9	Benzo[k]fluoranthene	45		8.1	3.6
218-01-9	Chrysene	140		9.1	4.5
53-70-3	Dibenz(a,h)anthracene	39		20	4.1
206-44-0	Fluoranthene	93		20	4.0
86-73-7	Fluorene	15	J	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	78		20	7.2
90-12-0	1-Methylnaphthalene	59		40	4.4
91-57-6	2-Methylnaphthalene	76		40	7.2
91-20-3	Naphthalene	68		40	4.4
85-01-8	Phenanthrene	120		8.1	3.9
129-00-0	Pyrene	150		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25010.D
Lab Smp Id: 680-87545-A-40-A Client Smp ID: FM0161CC-CS
Inj Date : 25-FEB-2013 15:59
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87545-A-40-A
Misc Info : 680-87545-A-40-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	1.766	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.380	2.379	(1.000)	921940	40.0000	
* 6 Acenaphthene-d10	164	3.406	3.404	(1.000)	622880	40.0000	
* 10 Phenanthrene-d10	188	4.346	4.339	(1.000)	902898	40.0000	
$ 14 o-Terphenyl	230	4.624	4.622	(1.064)	84478	6.42999	433.1958
* 18 Chrysene-d12	240	6.355	6.353	(1.000)	437870	40.0000	
* 23 Perylene-d12	264	7.455	7.443	(1.000)	622313	40.0000	
2 Naphthalene	128	2.391	2.389	(1.004)	22487	1.01223	68.1950
3 2-Methylnaphthalene	141	2.792	2.790	(1.173)	12961	1.13015	76.1396
4 1-Methylnaphthalene	142	2.845	2.849	(1.195)	11249	0.88084	59.3430
5 Acenaphthylene	152	3.321	3.319	(0.975)	8785	0.37773	25.4480
9 Fluorene	166	3.732	3.730	(1.096)	3671	0.21643	14.5813(Q)
11 Phenanthrene	178	4.357	4.355	(1.002)	41017	1.82761	123.1279
12 Anthracene	178	4.389	4.387	(1.010)	13019	0.59720	40.2341
13 Carbazole	167	4.544	4.542	(1.045)	4211	0.21882	14.7421

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.217	5.215	(1.200)	30844	1.37452	92.6029
16 Pyrene	202	5.383	5.381	(0.847)	28735	2.23735	150.7325
17 Benzo(a)anthracene	228	6.350	6.342	(0.999)	21873	1.67296	112.7089
19 Chrysene	228	6.371	6.369	(1.003)	24422	2.08857	140.7090
20 Benzo(b)fluoranthene	252	7.172	7.165	(0.962)	37921	2.40378	161.9450(M)
21 Benzo(k)fluoranthene	252	7.183	7.181	(0.963)	10510	0.66221	44.6135(QMH)
22 Benzo(a)pyrene	252	7.397	7.390	(0.992)	17205	1.19090	80.2320
24 Indeno(1,2,3-cd)pyrene	276	8.171	8.164	(1.096)	14431	1.16432	78.4416(M)
25 Dibenzo(a,h)anthracene	278	8.182	8.180	(1.097)	7483	0.57936	39.0322
26 Benzo(g,h,i)perylene	276	8.374	8.367	(1.123)	16134	1.22387	82.4535

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB25010.D

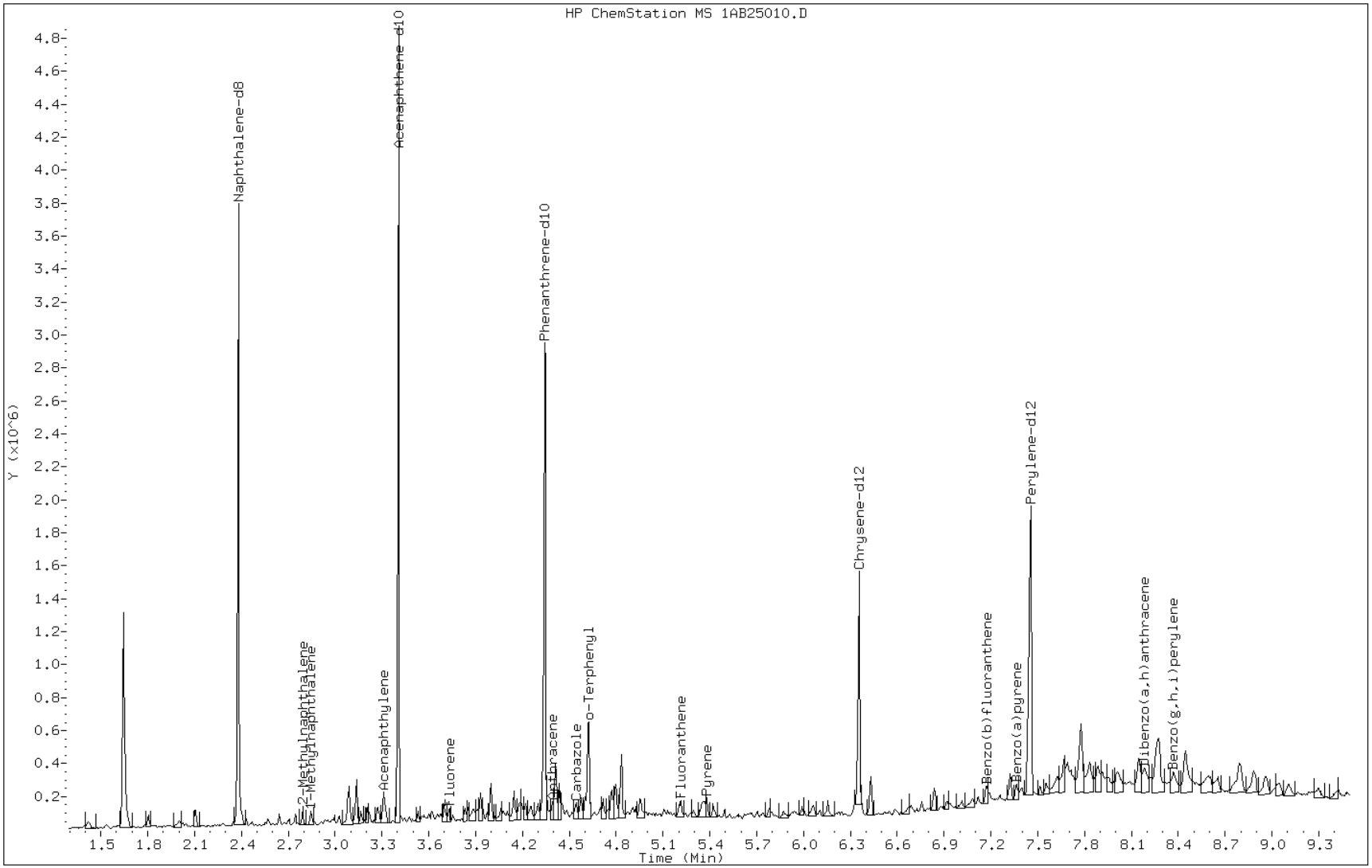
Date: 25-FEB-2013 15:59

Client ID: FM0161CC-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A

Operator: SCC



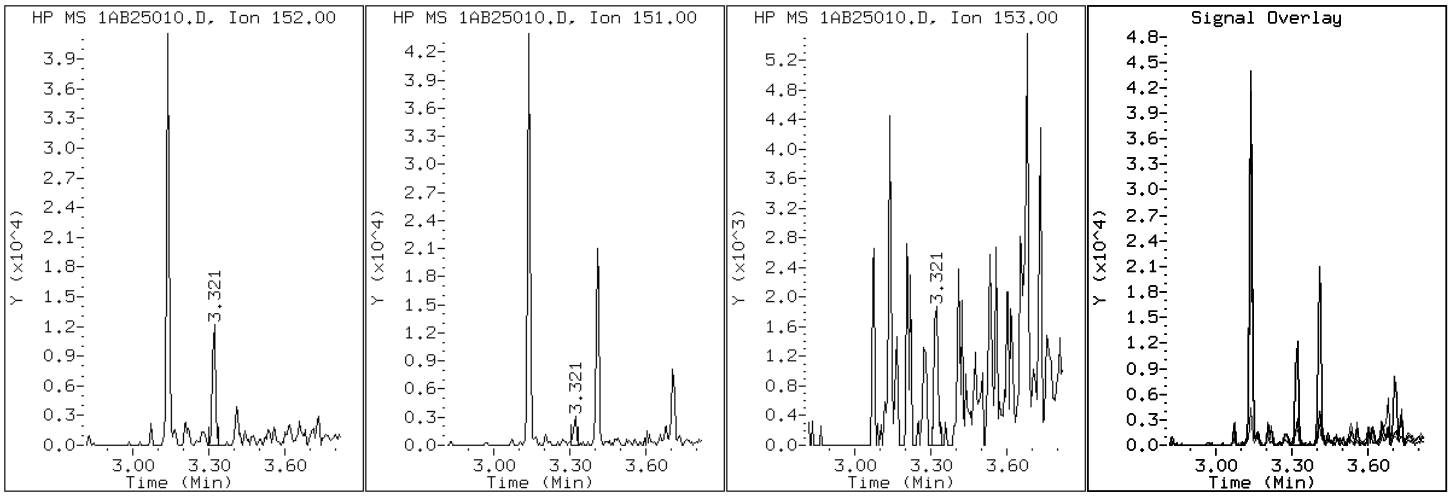
Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

Client ID: FM0161CC-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A Operator: SCC

5 Acenaphthylene



Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

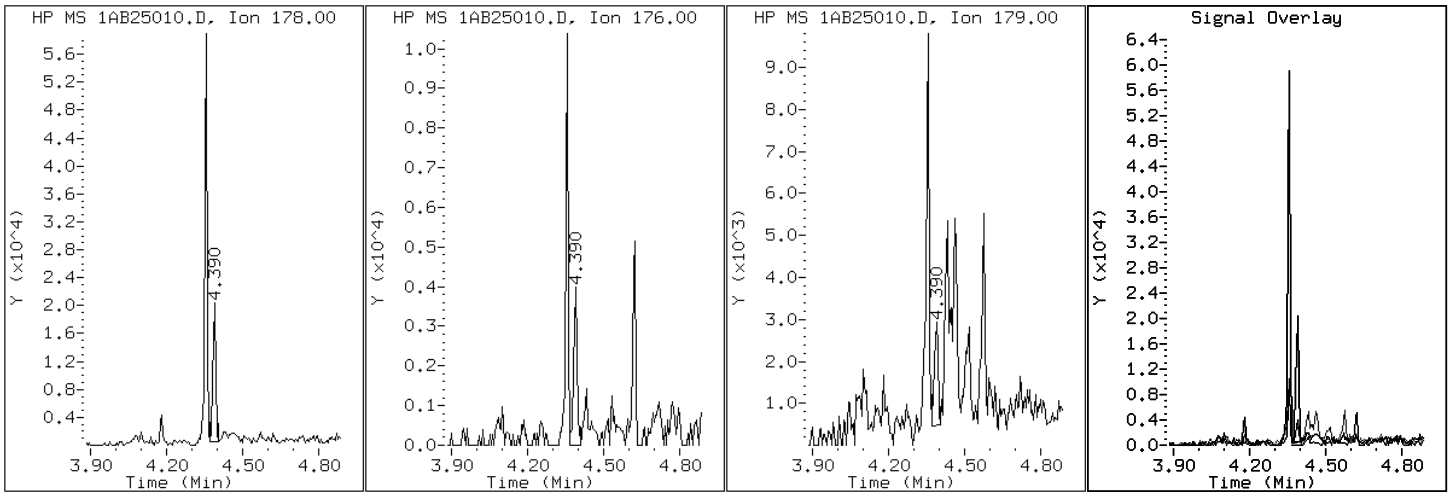
Client ID: FM0161CC-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A

Operator: SCC

12 Anthracene



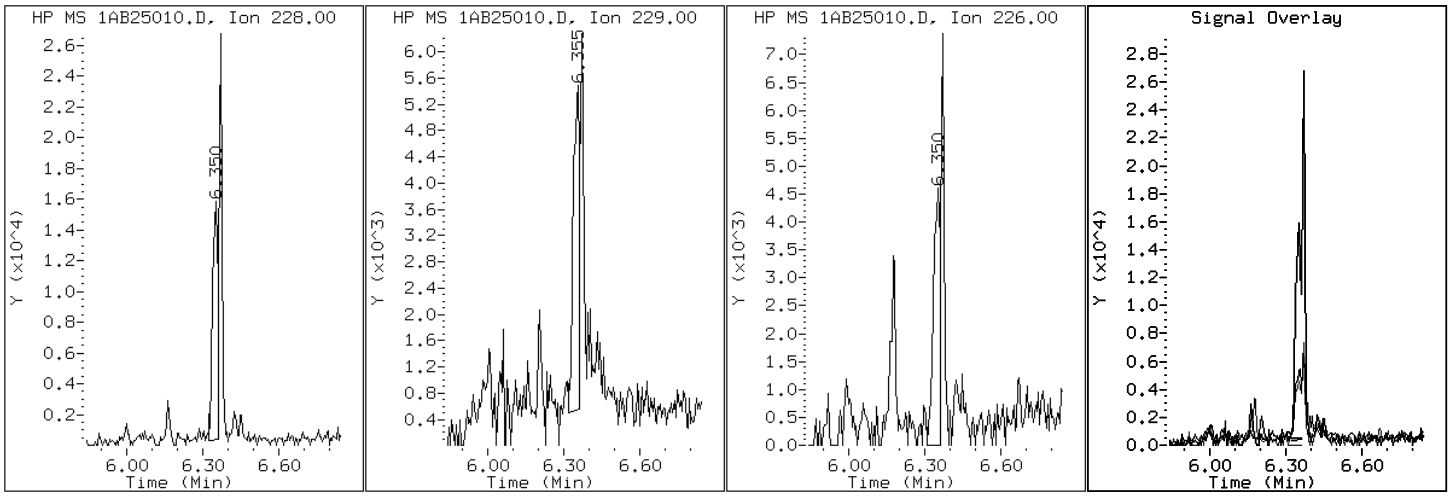
Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

Client ID: FM0161CC-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A Operator: SCC

17 Benzo(a)anthracene



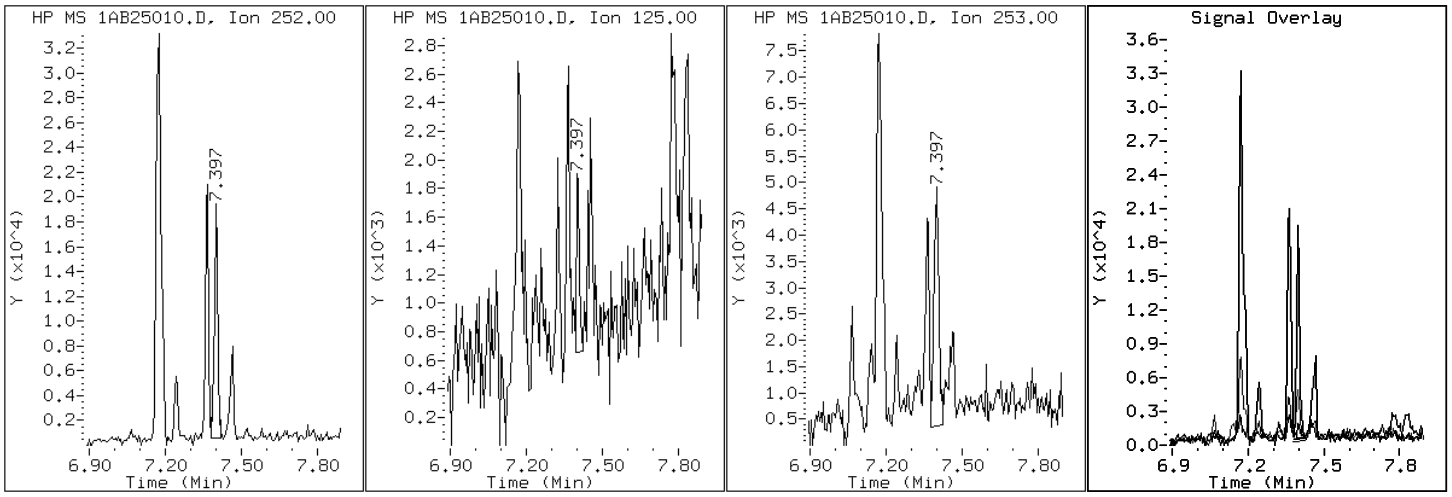
Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

Client ID: FM0161CC-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A Operator: SCC

22 Benzo(a)pyrene



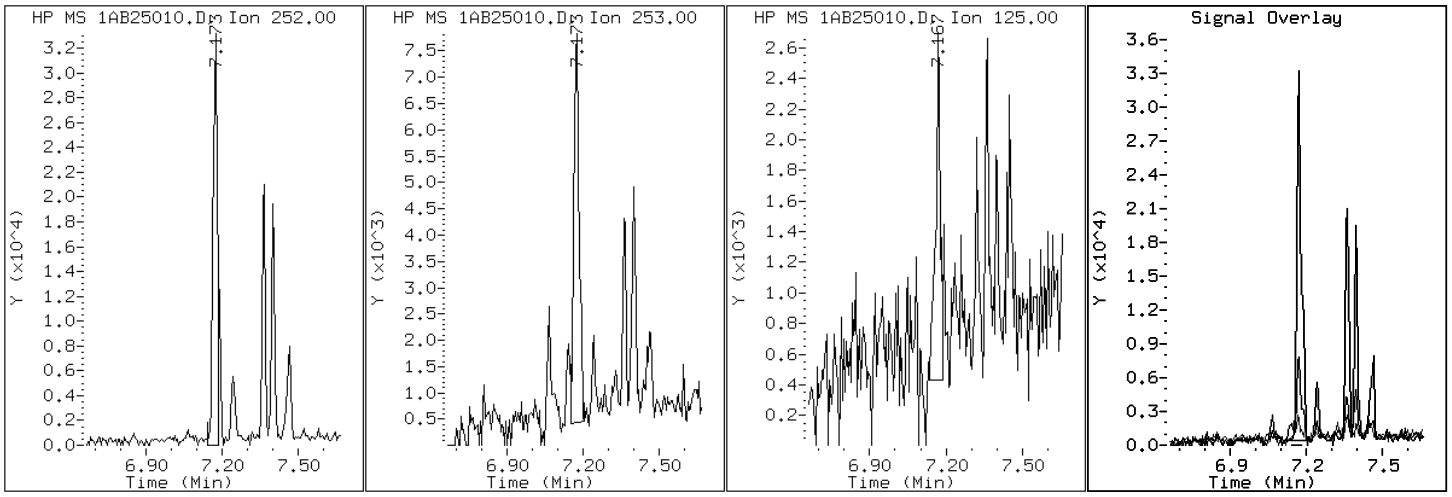
Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

Client ID: FM0161CC-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

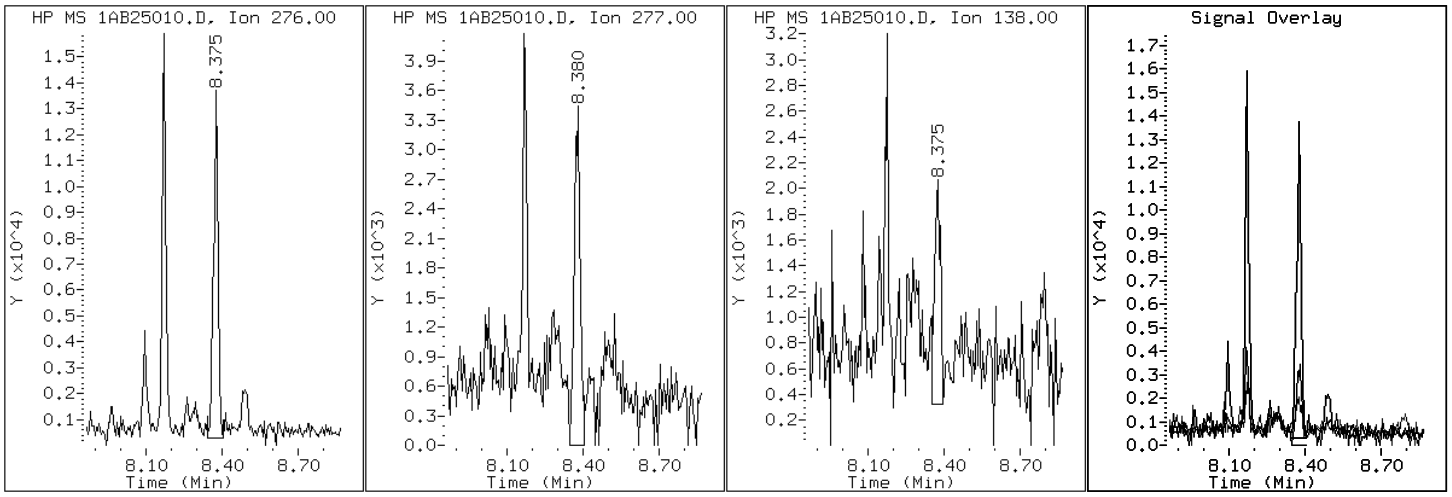
Client ID: FM0161CC-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

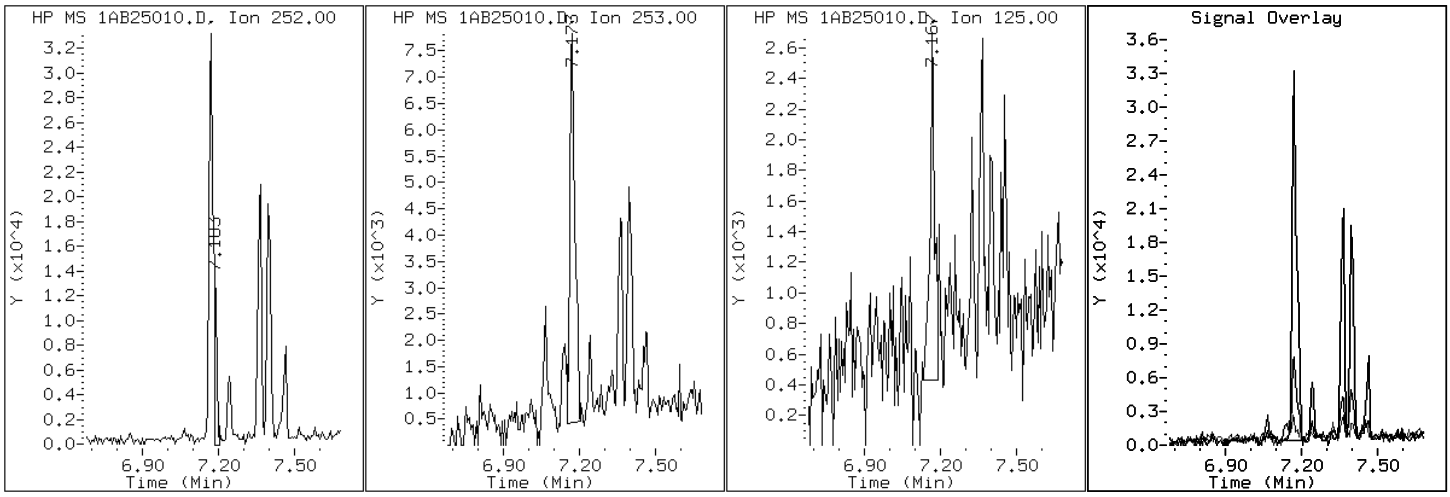
Client ID: FM0161CC-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A

Operator: SCC

21 Benzo(k)fluoranthene



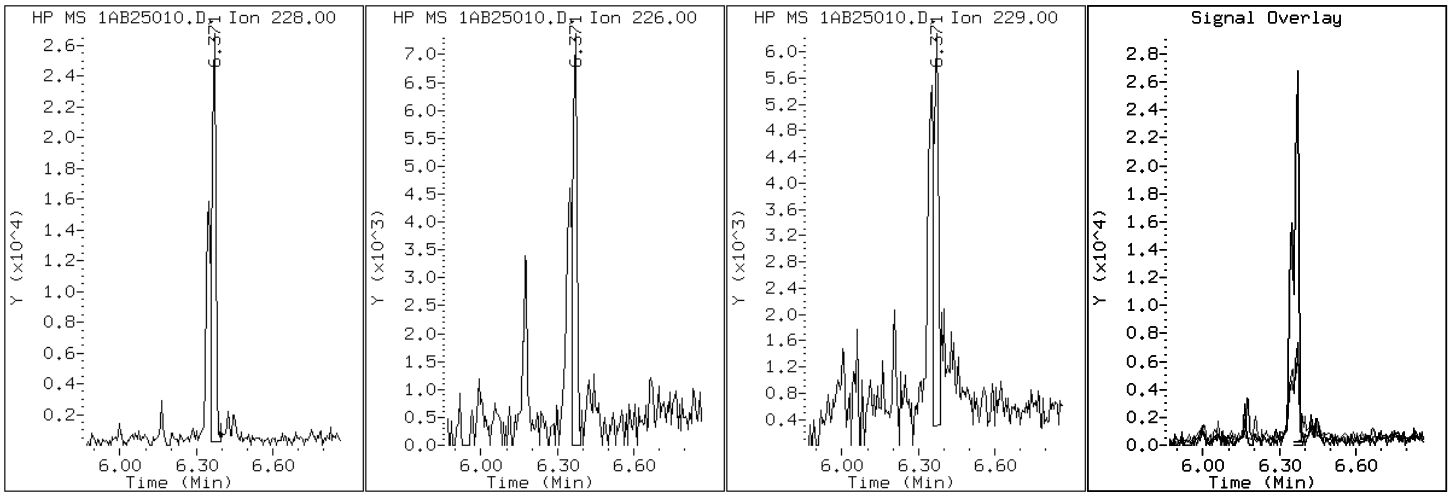
Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

Client ID: FM0161CC-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A Operator: SCC

19 Chrysene



Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

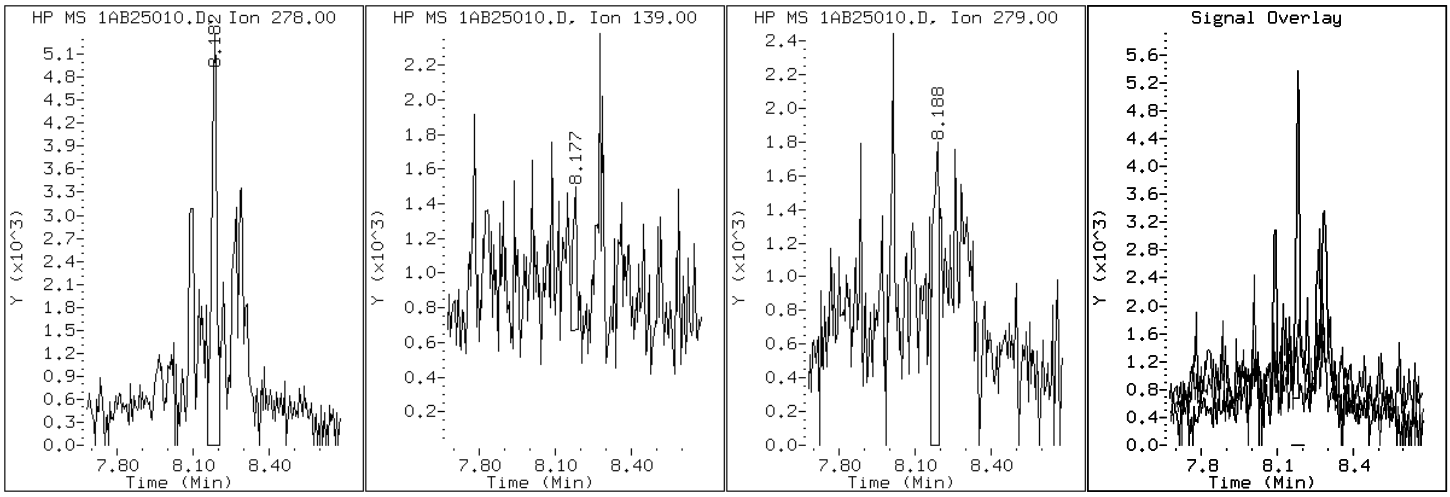
Client ID: FM0161CC-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

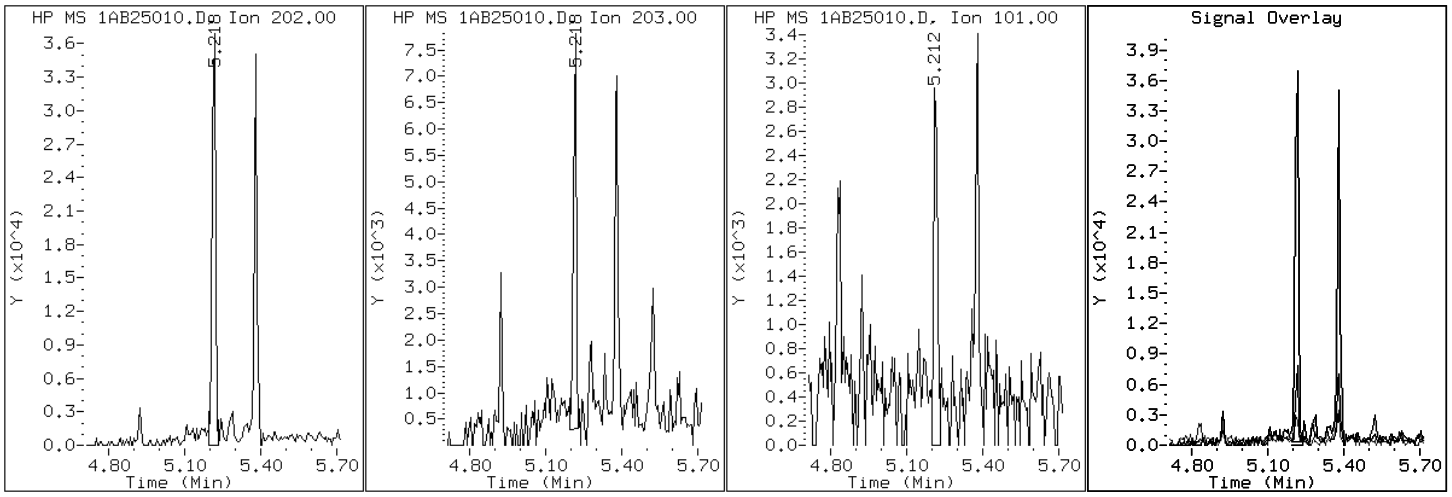
Client ID: FM0161CC-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A

Operator: SCC

15 Fluoranthene



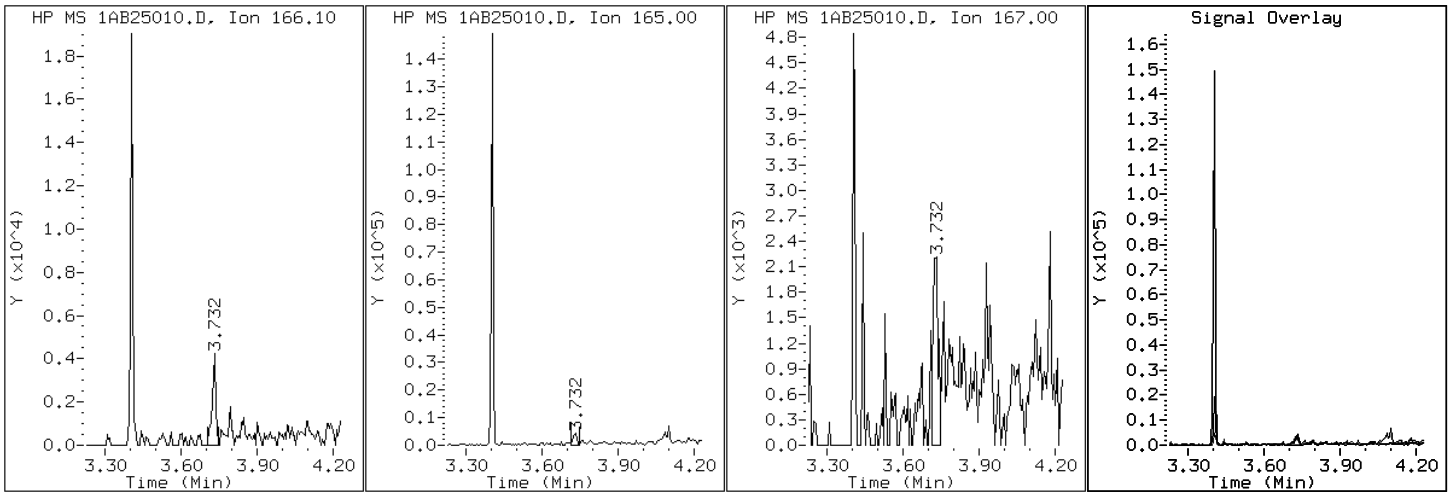
Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

Client ID: FM0161CC-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A Operator: SCC

9 Fluorene



Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

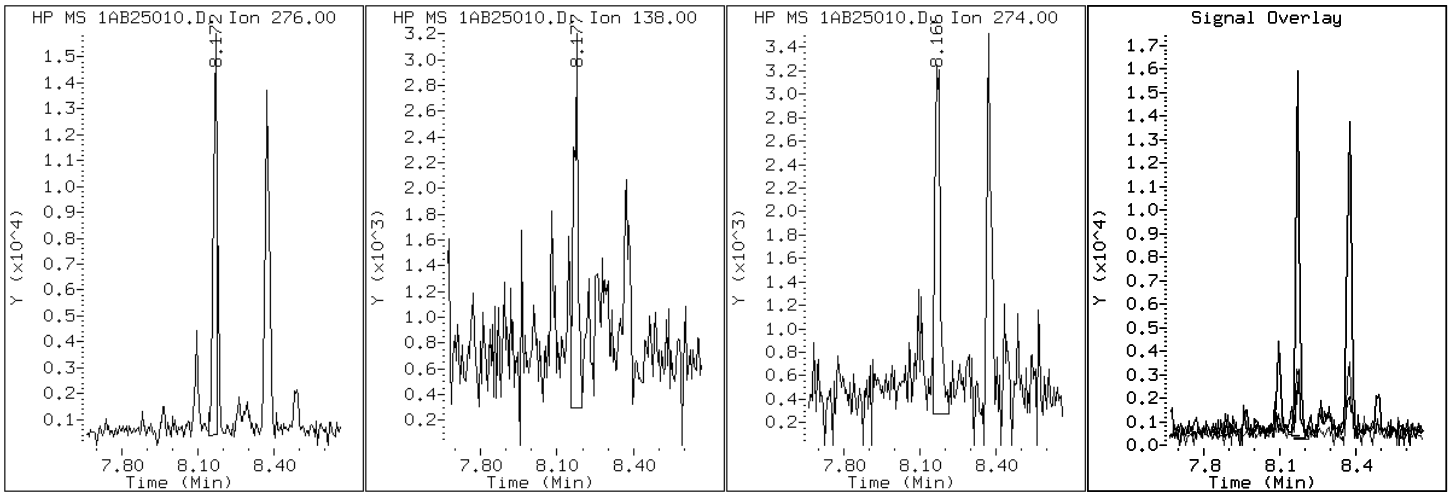
Client ID: FM0161CC-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



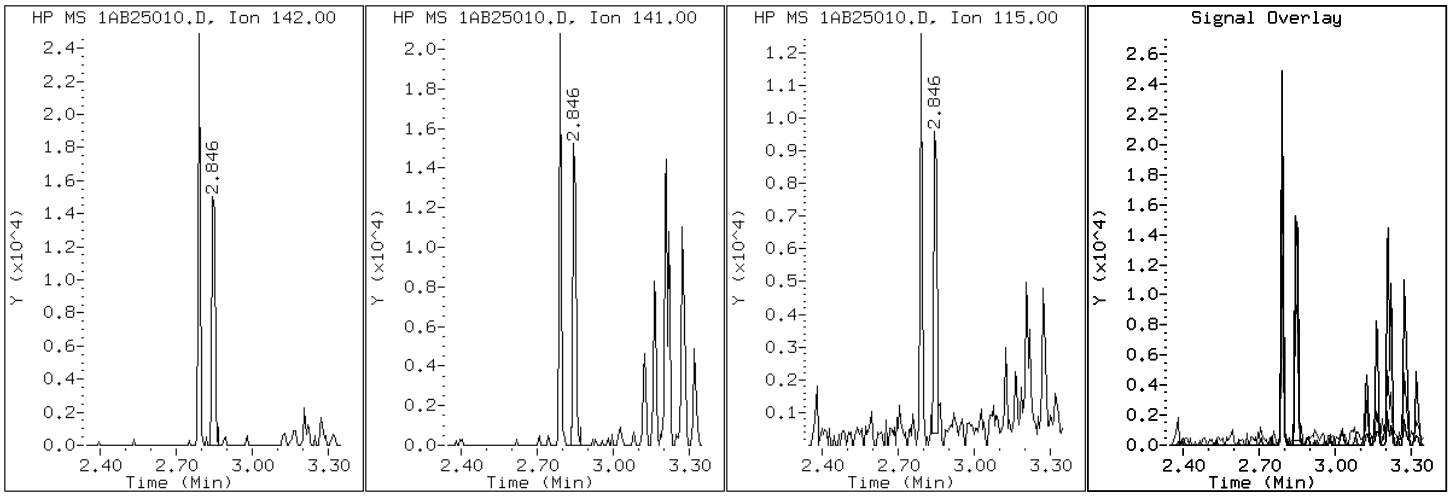
Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

Client ID: FM0161CC-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A Operator: SCC

4 1-Methylnaphthalene



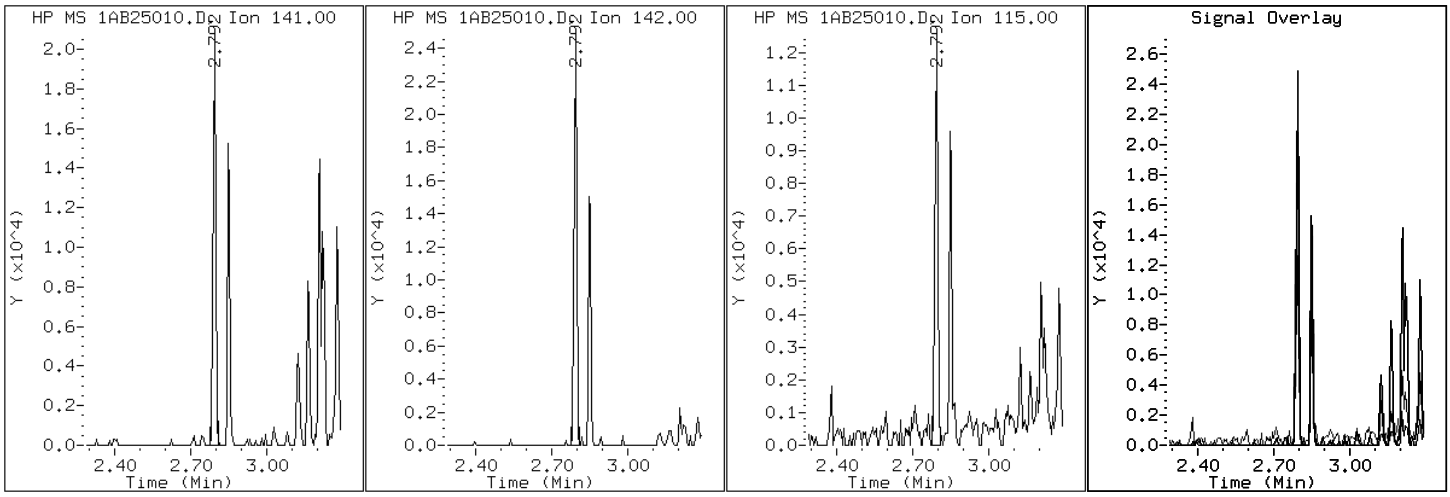
Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

Client ID: FM0161CC-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A Operator: SCC

3 2-Methylnaphthalene



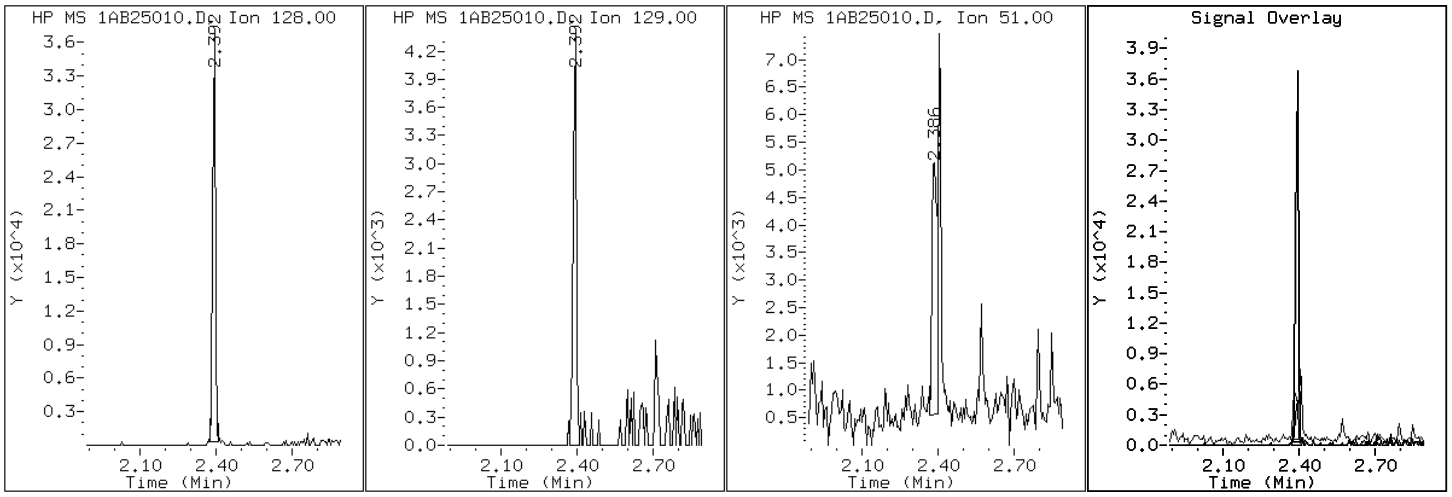
Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

Client ID: FM0161CC-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A Operator: SCC

2 Naphthalene



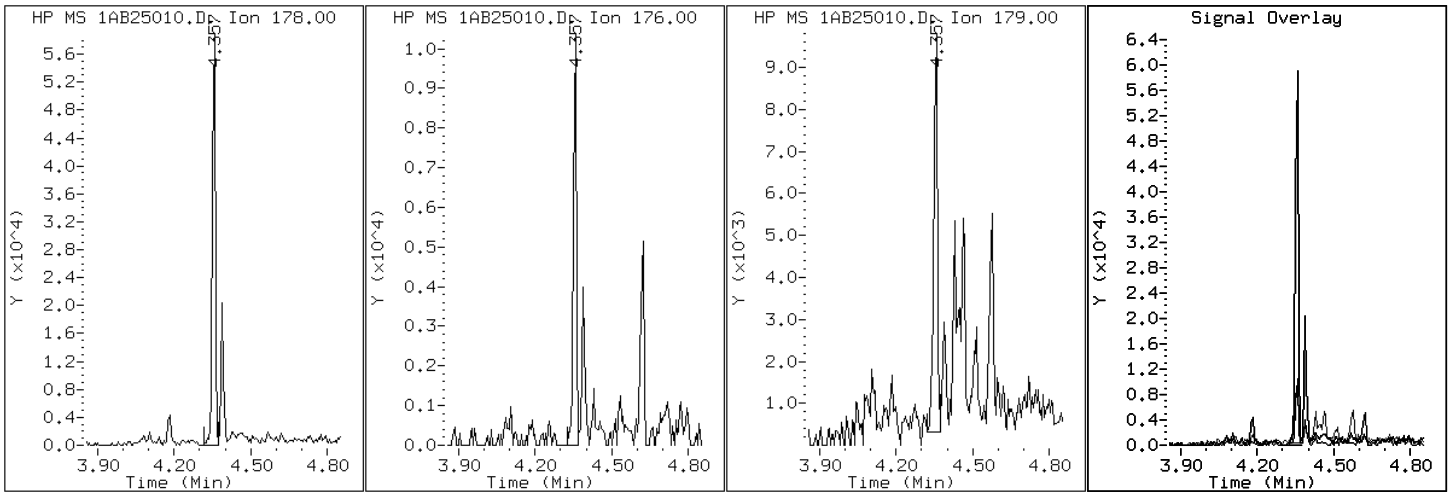
Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

Client ID: FM0161CC-CS Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A Operator: SCC

11 Phenanthrene



Data File: 1AB25010.D

Date: 25-FEB-2013 15:59

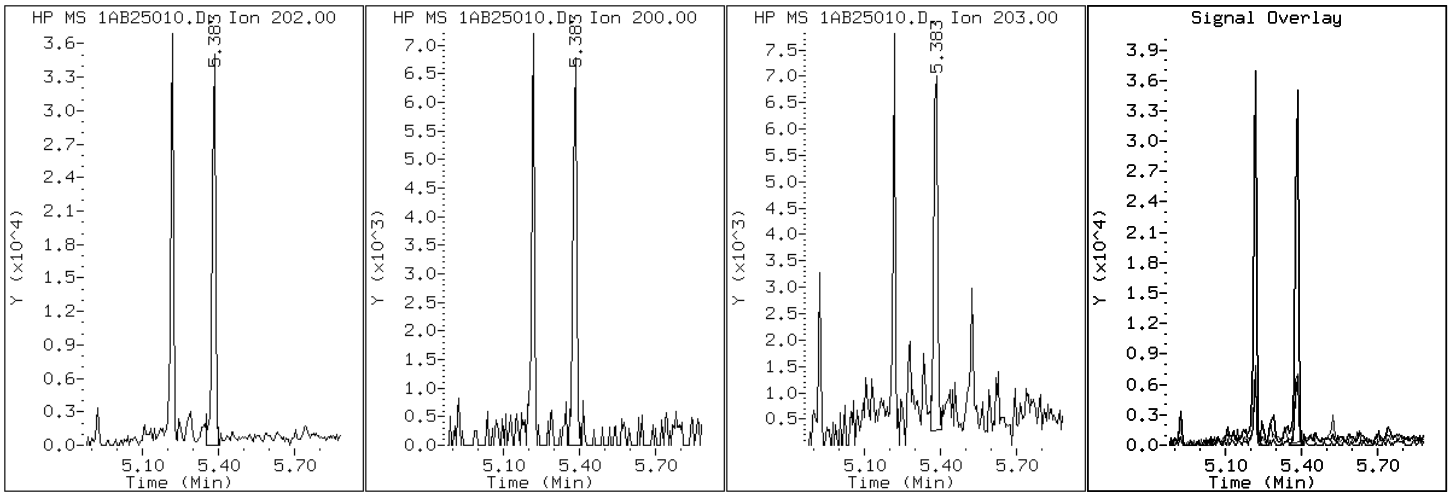
Client ID: FM0161CC-CS

Instrument: BSMA5973.i

Sample Info: 680-87545-A-40-A

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB25010.D
Inj. Date and Time: 25-FEB-2013 15:59
Instrument ID: BSMA5973.i
Client ID: FM0161CC-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/27/2013

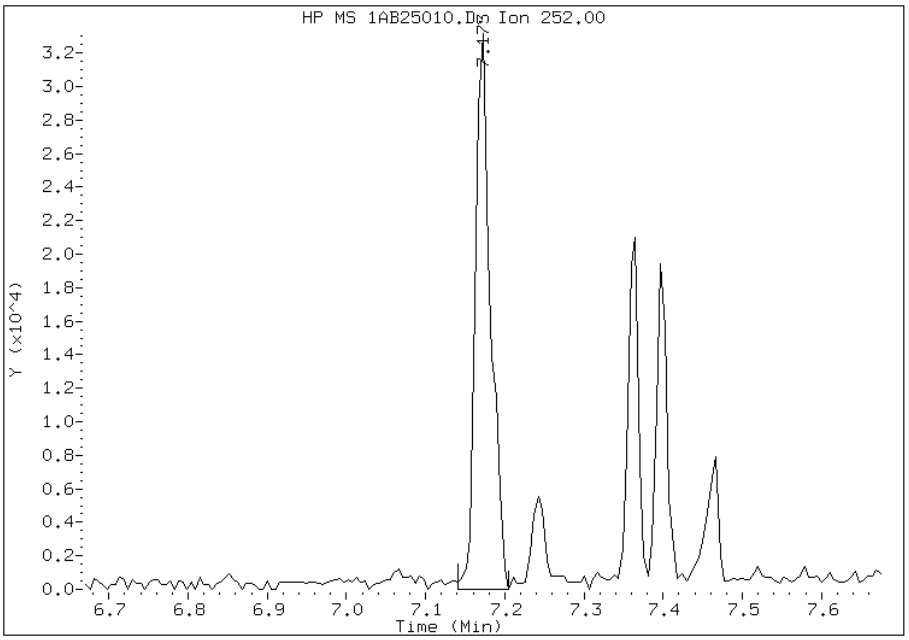
Processing Integration Results

RT: 7.17

Response: 43862

Amount: 3

Conc: 187



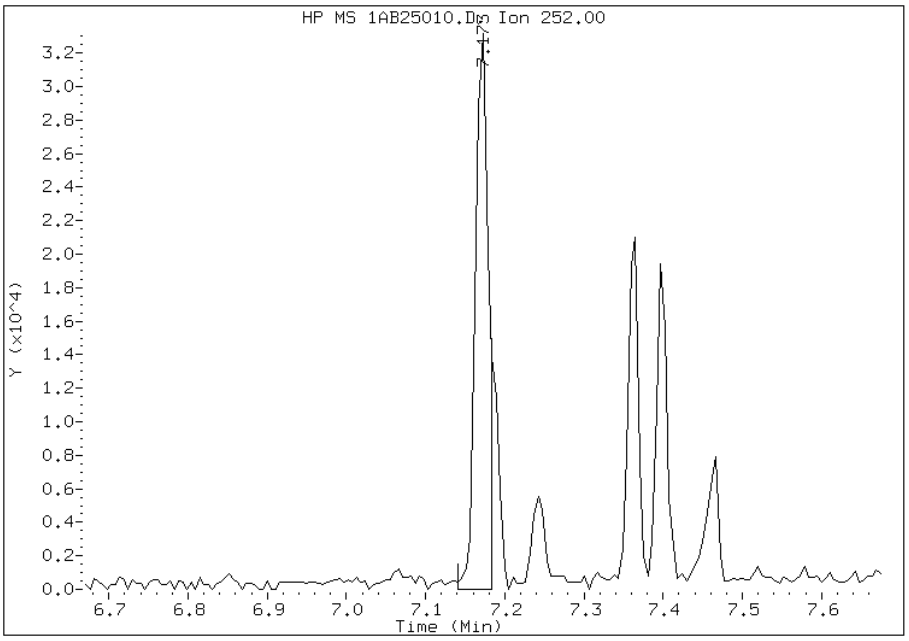
Manual Integration Results

RT: 7.17

Response: 37921

Amount: 2

Conc: 162



Manually Integrated By: cantins
Modification Date: 27-Feb-2013 10:15
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB25010.D
Inj. Date and Time: 25-FEB-2013 15:59
Instrument ID: BSMA5973.i
Client ID: FM0161CC-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/27/2013

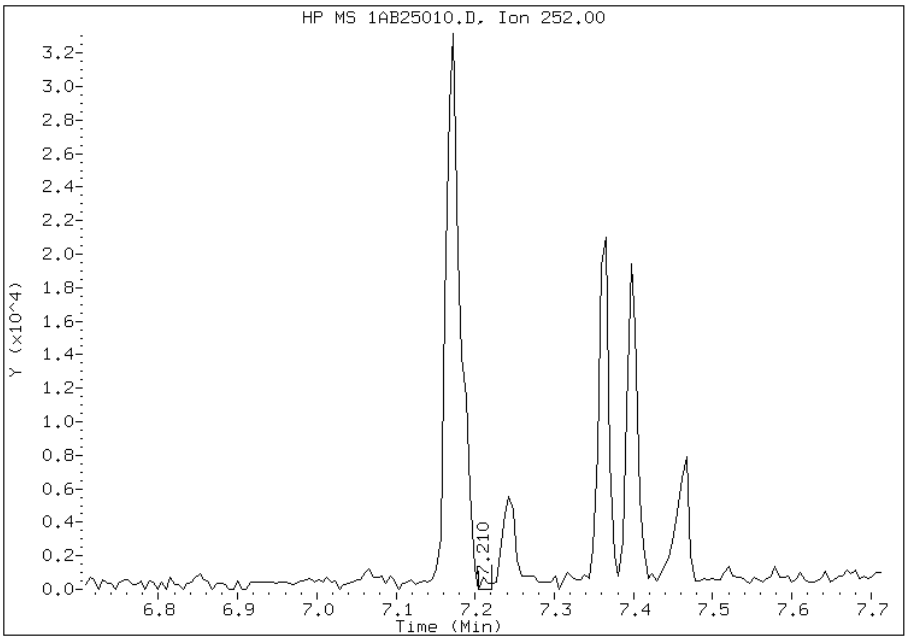
Processing Integration Results

RT: 7.21

Response: 459

Amount: 0

Conc: 2



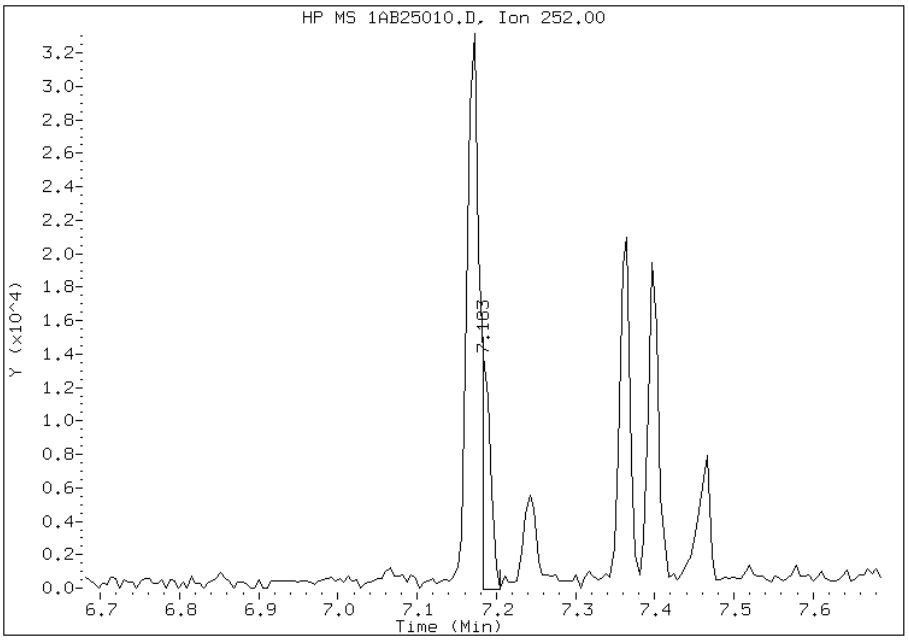
Manual Integration Results

RT: 7.18

Response: 10510

Amount: 1

Conc: 45



Manually Integrated By: cantins
Modification Date: 27-Feb-2013 10:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB25010.D
Inj. Date and Time: 25-FEB-2013 15:59
Instrument ID: BSMA5973.i
Client ID: FM0161CC-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/27/2013

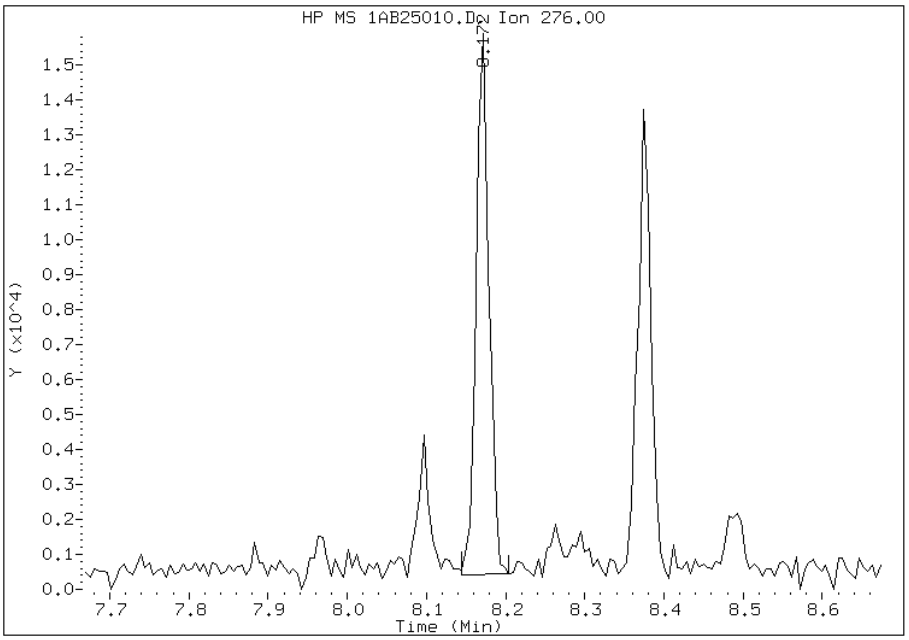
Processing Integration Results

RT: 8.17

Response: 17076

Amount: 1

Conc: 93



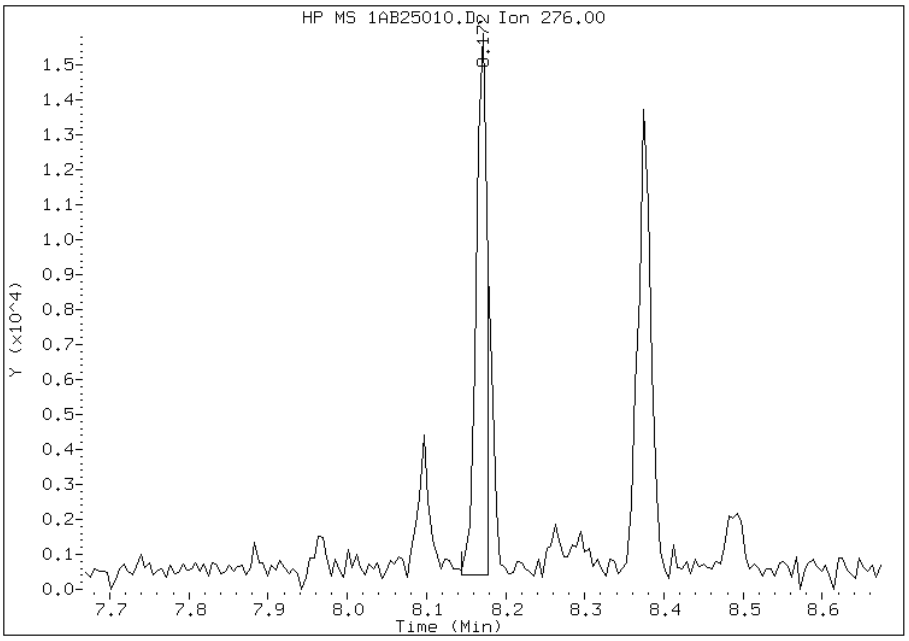
Manual Integration Results

RT: 8.17

Response: 14431

Amount: 1

Conc: 78



Manually Integrated By: cantins
Modification Date: 27-Feb-2013 10:16
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-2 Analy Batch No.: 134771

SDG No.: 68087545-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134771/3	1AB22003.D
Level 2	IC 660-134771/4	1AB22004.D
Level 3	IC 660-134771/5	1AB22005.D
Level 4	IC 660-134771/6	1AB22006.D
Level 5	ICIS 660-134771/7	1AB22007.D
Level 6	IC 660-134771/8	1AB22008.D
Level 7	IC 660-134771/9	1AB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.8964 1.0153	0.9159 1.0399	0.9668	0.9629	0.9496	Ave		0.9639			0.0000	5.3		15.0			
2-Methylnaphthalene	0.5063 0.5277	0.4390 0.5498	0.4723	0.4869	0.5011	Ave		0.4976			0.0000	7.3		15.0			
1-Methylnaphthalene	0.5486 0.5967	0.4750 0.6283	0.5452	0.5377	0.5470	Ave		0.5541			0.0000	8.7		15.0			
Acenaphthylene	1.1966 1.6216	1.3446 1.8173	1.4050	1.4842	1.5855	Ave		1.4935			0.0000	13.6		15.0			
Acenaphthene	0.8808 0.9421	0.7126 1.0791	0.7647	0.8116	0.8502	Ave		0.8630			0.0000	14.1		15.0			
Fluorene	1.1431 1.1704	0.9064 1.3325	0.9874	1.0111	1.0737	Ave		1.0892			0.0000	12.9		15.0			
Phenanthrene	0.9312 1.0691	0.9111 1.1691	0.9176	0.9689	0.9927	Ave		0.9943			0.0000	9.5		15.0			
Anthracene	0.7803 1.0576	0.9213 1.1455	0.8949	0.9850	0.9759	Ave		0.9658			0.0000	12.1		15.0			
Carbazole	0.8186 0.9329	0.8109 0.9551	0.7765	0.8355	0.8385	Ave		0.8526			0.0000	7.7		15.0			
Fluoranthene	0.8986 1.1004	0.8625 1.1530	0.9211	1.0002	1.0230	Ave		0.9941			0.0000	10.8		15.0			
Pyrene	1.0843 1.2795	0.9905 1.3394	1.0929	1.1780	1.2482	Ave		1.1733			0.0000	10.6		15.0			
Benzo[a]anthracene	1.7411 1.1723	1.2086 1.2117	1.1255	1.1892	1.1354	LinF		1.1944			0.0000				0.9990		0.9900
Chrysene	1.1973 1.0763	0.9703 1.0809	1.0168	1.0640	1.0717	Ave		1.0682			0.0000	6.5		15.0			
Benzo[b]fluoranthene	0.9061 1.0772	0.9726 1.1120	0.9385	1.0042	1.0873	Ave		1.0140			0.0000	7.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-2 Analy Batch No.: 134771

SDG No.: 68087545-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9231 1.0263	0.9685 1.1087	1.0370	1.0317	1.0456	Ave		1.0201			0.0000	5.8		15.0			
Benzo[a]pyrene	0.8117 0.9918	0.8272 1.0398	0.9008	0.9421	0.9868	Ave		0.9286			0.0000	9.3		15.0			
Indeno[1,2,3-cd]pyrene	0.7333 0.8566	0.6724 0.8736	0.7089	0.8640	0.8679	Ave		0.7967			0.0000	11.0		15.0			
Dibenz(a,h)anthracene	0.7469 0.8730	0.7508 0.9377	0.7976	0.8318	0.8737	Ave		0.8302			0.0000	8.5		15.0			
Benzo[g,h,i]perylene	0.7605 0.8858	0.7997 0.9208	0.8165	0.8606	0.8875	Ave		0.8473			0.0000	6.7		15.0			
o-Terphenyl	0.6186 0.6322	0.5097 0.6801	0.5130	0.5639	0.5567	Ave		0.5820			0.0000	11.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-2 Analy Batch No.: 134771

SDG No.: 68087545-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134771/3	1AB22003.D
Level 2	IC 660-134771/4	1AB22004.D
Level 3	IC 660-134771/5	1AB22005.D
Level 4	IC 660-134771/6	1AB22006.D
Level 5	ICIS 660-134771/7	1AB22007.D
Level 6	IC 660-134771/8	1AB22008.D
Level 7	IC 660-134771/9	1AB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	4492 755068	23071 1297783	116527	240277	470879	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	2537 392415	11057 686127	56925	121491	248487	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	2749 443774	11965 784083	65710	134180	271250	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	4028 777111	22465 1395142	113930	243677	493767	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	2965 451477	11906 828395	62010	133244	264764	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	3848 560865	15143 1022945	80068	165999	334396	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	4653 768793	22599 1384065	115139	234292	480919	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	3899 760474	22852 1356027	112287	238178	472782	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	4090 670812	20113 1130623	97425	202035	406225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	4490 791244	21394 1364989	115579	241853	495614	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	4786 842188	22037 1493658	120317	254540	525727	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	7685 771629	26890 1351230	123907	256962	478213	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	5285 708418	21588 1205320	111943	229916	451380	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	4262 734907	23073 1222288	108525	230016	467596	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	4342 700196	22977 1218648	119915	236303	449664	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-2 Analy Batch No.: 134771

SDG No.: 68087545-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	3818 676641	19624 1142888	104167	215789	424369	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	3449 584416	15951 960232	81971	197900	373229	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	3513 595548	17811 1030642	92232	190519	375714	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	3577 604332	18973 1012084	94413	197121	381649	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	3091 454607	12643 805122	64371	136353	269717	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 11:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.389	2.396	(1.000)	1002176	40.0000	
* 6 Acenaphthene-d10	164	3.415	3.416	(1.000)	673260	40.0000	
* 10 Phenanthrene-d10	188	4.355	4.351	(1.000)	999327	40.0000	
$ 14 o-Terphenyl	230	4.628	4.634	(1.063)	3091	0.20000	0.2125
* 18 Chrysene-d12	240	6.364	6.365	(1.000)	882800	40.0000	
* 23 Perylene-d12	264	7.459	7.455	(1.000)	940724	40.0000	
2 Naphthalene	128	2.405	2.401	(1.007)	4492	0.20000	0.1860(Q)
3 2-Methylnaphthalene	141	2.806	2.807	(1.174)	2537	0.20000	0.2035
4 1-Methylnaphthalene	142	2.859	2.861	(1.197)	2749	0.20000	0.1980
5 Acenaphthylene	152	3.330	3.331	(0.975)	4028	0.20000	0.1602
7 Acenaphthene	154	3.431	3.433	(1.005)	2965	0.20000	0.2041
9 Fluorene	166	3.741	3.742	(1.095)	3848	0.20000	0.2098
11 Phenanthrene	178	4.366	4.367	(1.002)	4653	0.20000	0.1873
12 Anthracene	178	4.398	4.399	(1.010)	3899	0.20000	0.1615
13 Carbazole	167	4.553	4.554	(1.045)	4090	0.20000	0.1920
15 Fluoranthene	202	5.226	5.227	(1.200)	4490	0.20000	0.1807
16 Pyrene	202	5.392	5.393	(0.847)	4786	0.20000	0.1848
17 Benzo(a)anthracene	228	6.359	6.355	(0.999)	7685	0.20000	0.2915
19 Chrysene	228	6.375	6.387	(1.002)	5285	0.20000	0.2241
20 Benzo(b)fluoranthene	252	7.171	7.177	(0.961)	4262	0.20000	0.1787
21 Benzo(k)fluoranthene	252	7.192	7.199	(0.964)	4342	0.20000	0.1809
22 Benzo(a)pyrene	252	7.400	7.407	(0.992)	3818	0.20000	0.1748
24 Indeno(1,2,3-cd)pyrene	276	8.175	8.176	(1.096)	3449	0.20000	0.1840(M)
25 Dibenzo(a,h)anthracene	278	8.191	8.192	(1.098)	3513	0.20000	0.1799
26 Benzo(g,h,i)perylene	276	8.378	8.385	(1.123)	3577	0.20000	0.1794

QC Flag Legend

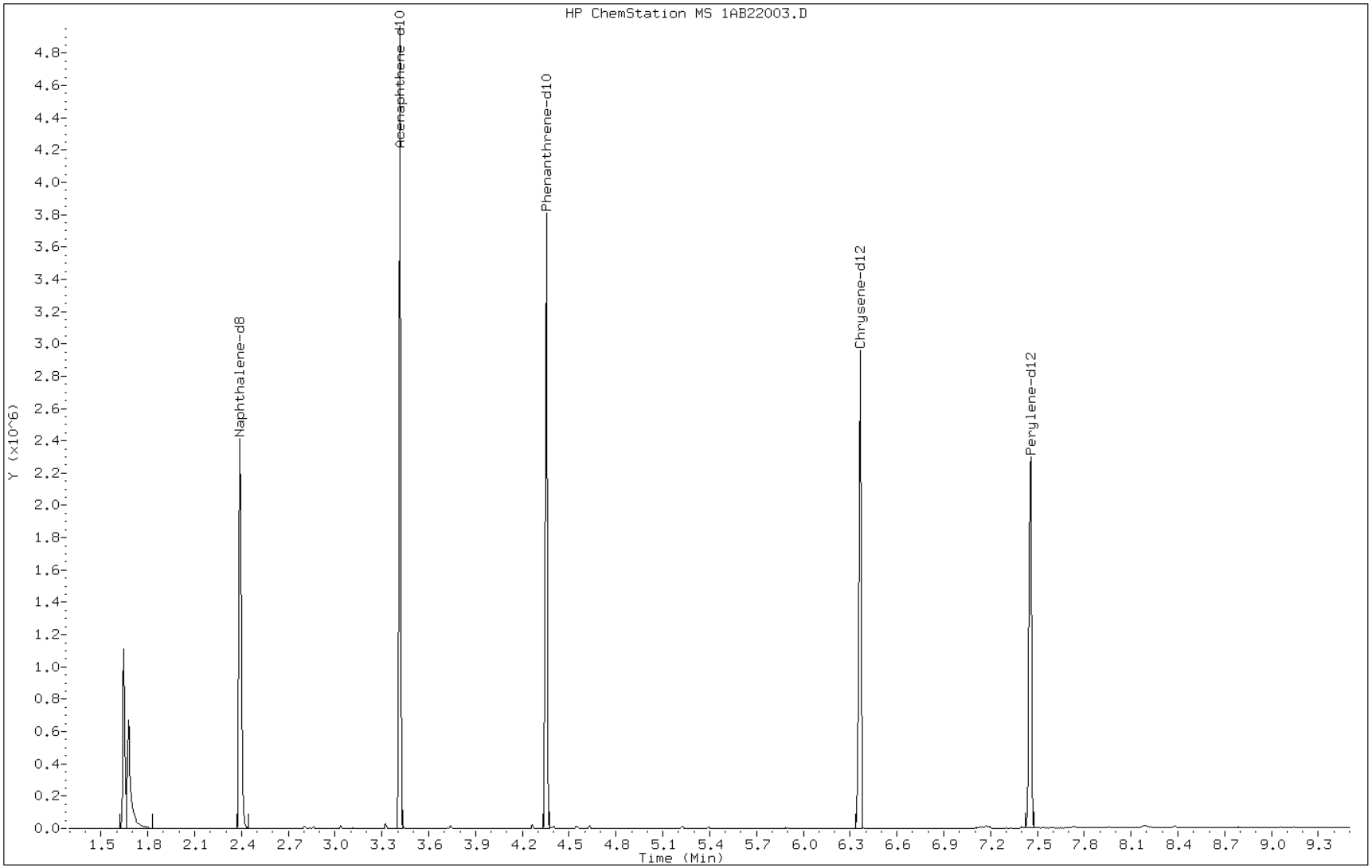
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB22003.D

Date: 22-FEB-2013 11:01

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1AB22003.D
Inj. Date and Time: 22-FEB-2013 11:01
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

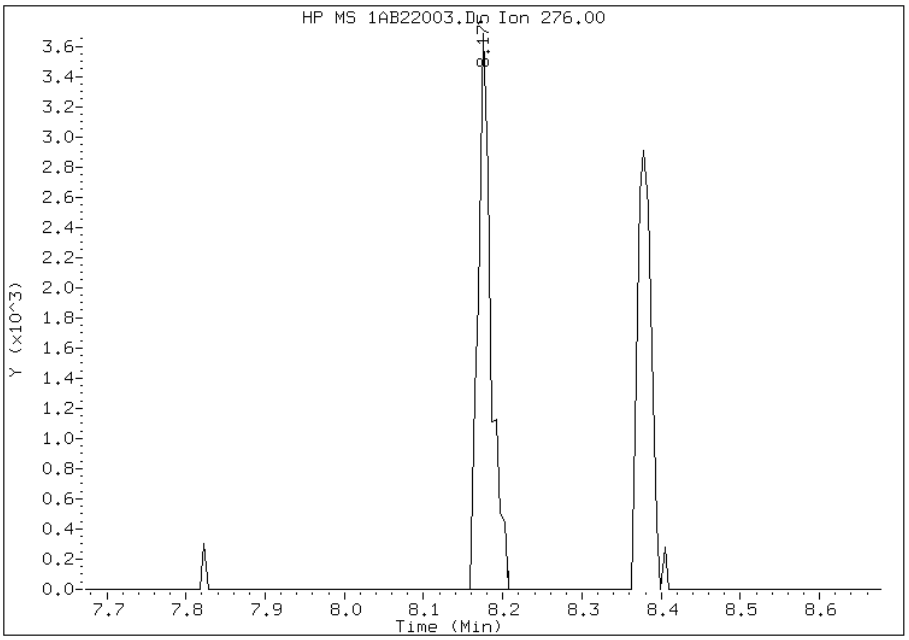
Processing Integration Results

RT: 8.18

Response: 4114

Amount: 0

Conc: 0



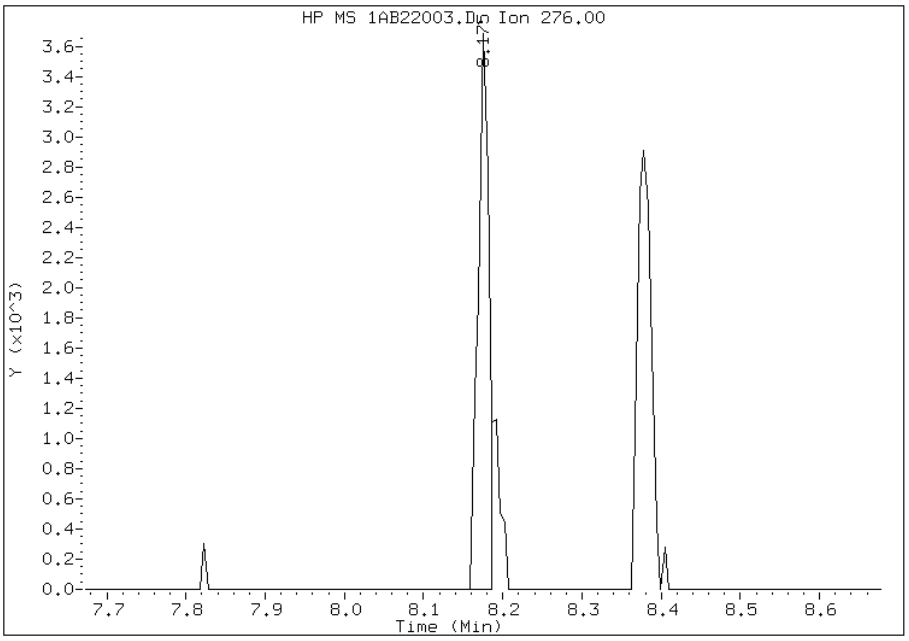
Manual Integration Results

RT: 8.18

Response: 3449

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:53
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 11:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:01 Cal File: 1AB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.389	2.396	(1.000)	1007546	40.0000	
* 6 Acenaphthene-d10	164	3.414	3.416	(1.000)	668302	40.0000	
* 10 Phenanthrene-d10	188	4.354	4.351	(1.000)	992180	40.0000	
$ 14 o-Terphenyl	230	4.627	4.634	(1.063)	12643	1.00000	0.8757
* 18 Chrysene-d12	240	6.363	6.365	(1.000)	889971	40.0000	
* 23 Perylene-d12	264	7.453	7.455	(1.000)	948962	40.0000	
2 Naphthalene	128	2.399	2.401	(1.004)	23071	1.00000	0.9502(Q)
3 2-Methylnaphthalene	141	2.805	2.807	(1.174)	11057	1.00000	0.8822
4 1-Methylnaphthalene	142	2.859	2.861	(1.197)	11965	1.00000	0.8573
5 Acenaphthylene	152	3.329	3.331	(0.975)	22465	1.00000	0.9002
7 Acenaphthene	154	3.430	3.433	(1.005)	11906	1.00000	0.8257
9 Fluorene	166	3.740	3.742	(1.095)	15143	1.00000	0.8321
11 Phenanthrene	178	4.365	4.367	(1.002)	22599	1.00000	0.9163
12 Anthracene	178	4.397	4.399	(1.010)	22852	1.00000	0.9539
13 Carbazole	167	4.552	4.554	(1.045)	20113	1.00000	0.9511
15 Fluoranthene	202	5.225	5.227	(1.200)	21394	1.00000	0.8676
16 Pyrene	202	5.386	5.393	(0.846)	22037	1.00000	0.8441
17 Benzo(a)anthracene	228	6.347	6.355	(0.997)	26890	1.00000	1.0118
19 Chrysene	228	6.379	6.387	(1.003)	21588	1.00000	0.9083
20 Benzo(b)fluoranthene	252	7.170	7.177	(0.962)	23073	1.00000	0.9591
21 Benzo(k)fluoranthene	252	7.191	7.199	(0.965)	22977	1.00000	0.9493
22 Benzo(a)pyrene	252	7.399	7.407	(0.993)	19624	1.00000	0.8907
24 Indeno(1,2,3-cd)pyrene	276	8.169	8.176	(1.096)	15951	1.00000	0.8439(M)
25 Dibenzo(a,h)anthracene	278	8.179	8.192	(1.097)	17811	1.00000	0.9043
26 Benzo(g,h,i)perylene	276	8.372	8.385	(1.123)	18973	1.00000	0.9438

QC Flag Legend

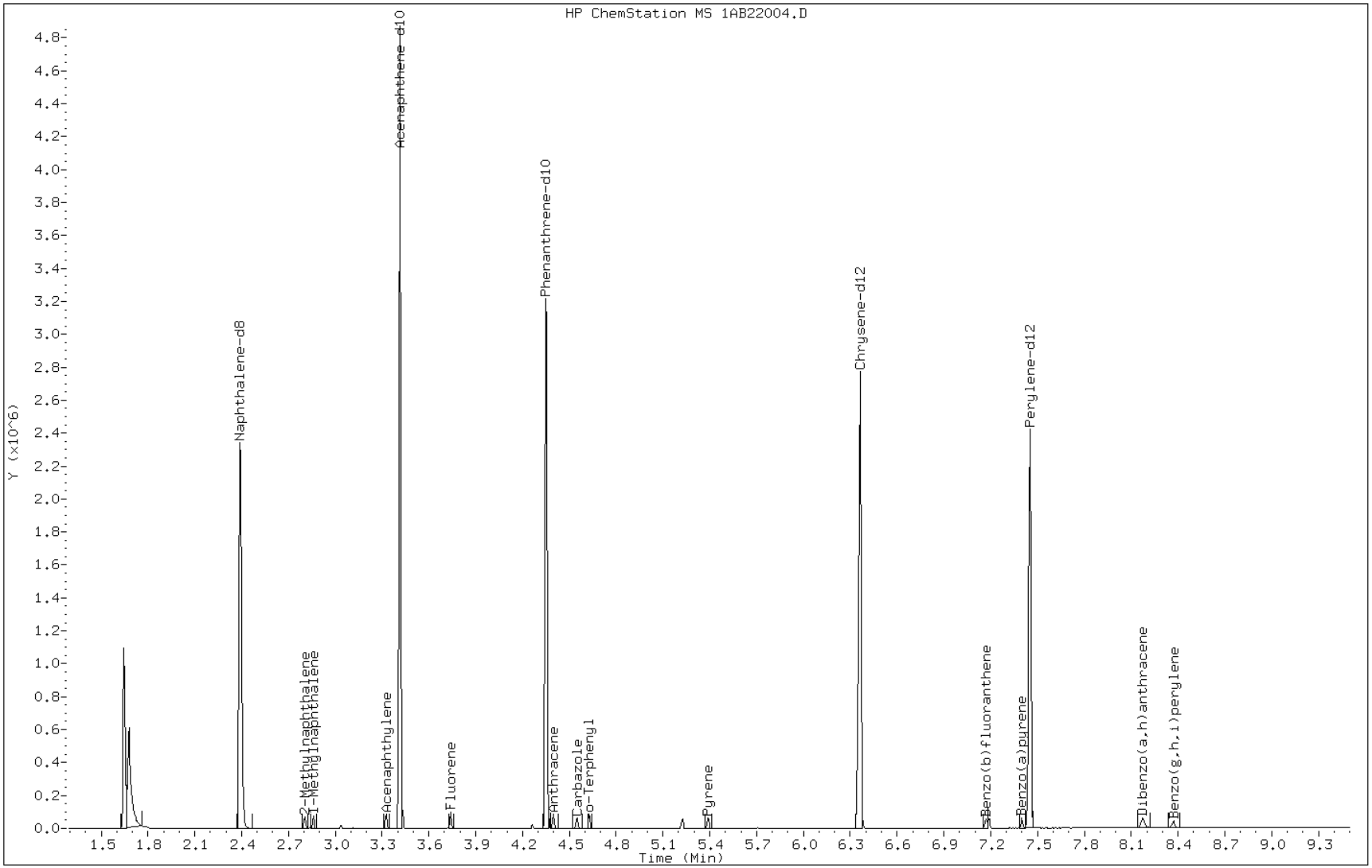
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB22004.D

Date: 22-FEB-2013 11:16

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512359 Operator: SCC



Manual Integration Report

Data File: 1AB22004.D
Inj. Date and Time: 22-FEB-2013 11:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

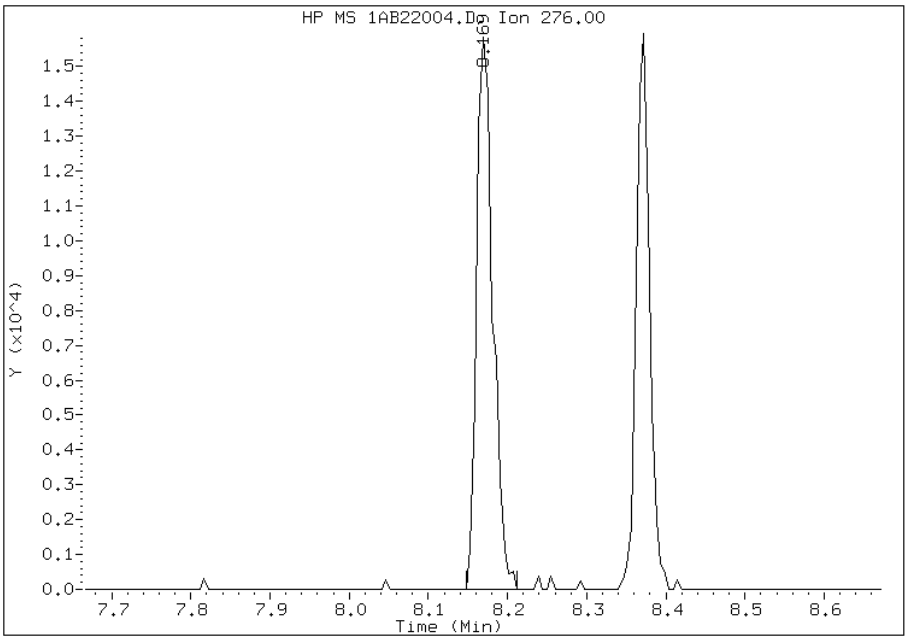
Processing Integration Results

RT: 8.17

Response: 22224

Amount: 1

Conc: 1



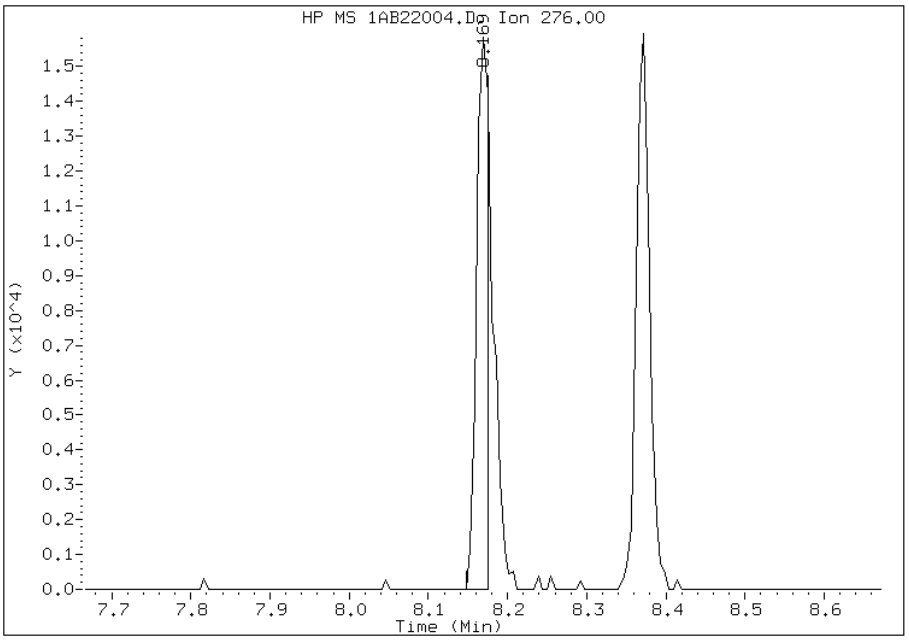
Manual Integration Results

RT: 8.17

Response: 15951

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:54
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 11:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:16 Cal File: 1AB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.394	2.396	(1.000)	964215	40.0000	
* 6 Acenaphthene-d10	164	3.414	3.416	(1.000)	648695	40.0000	
* 10 Phenanthrene-d10	188	4.349	4.351	(1.000)	1003789	40.0000	
$ 14 o-Terphenyl	230	4.627	4.634	(1.064)	64371	5.00000	4.4071
* 18 Chrysene-d12	240	6.363	6.365	(1.000)	880707	40.0000	
* 23 Perylene-d12	264	7.453	7.455	(1.000)	925085	40.0000	
2 Naphthalene	128	2.404	2.401	(1.004)	116527	5.00000	5.0153
3 2-Methylnaphthalene	141	2.805	2.807	(1.172)	56925	5.00000	4.7460
4 1-Methylnaphthalene	142	2.858	2.861	(1.194)	65710	5.00000	4.9197
5 Acenaphthylene	152	3.329	3.331	(0.975)	113930	5.00000	4.7037
7 Acenaphthene	154	3.430	3.433	(1.005)	62010	5.00000	4.4306
9 Fluorene	166	3.740	3.742	(1.095)	80068	5.00000	4.5327
11 Phenanthrene	178	4.365	4.367	(1.004)	115139	5.00000	4.6146
12 Anthracene	178	4.397	4.399	(1.011)	112287	5.00000	4.6330
13 Carbazole	167	4.547	4.554	(1.045)	97425	5.00000	4.5537
15 Fluoranthene	202	5.220	5.227	(1.200)	115579	5.00000	4.6329
16 Pyrene	202	5.391	5.393	(0.847)	120317	5.00000	4.6576
17 Benzo(a)anthracene	228	6.352	6.355	(0.998)	123907	5.00000	4.7117
19 Chrysene	228	6.379	6.387	(1.003)	111943	5.00000	4.7596
20 Benzo(b)fluoranthene	252	7.170	7.177	(0.962)	108525	5.00000	4.6277
21 Benzo(k)fluoranthene	252	7.191	7.199	(0.965)	119915	5.00000	5.0826
22 Benzo(a)pyrene	252	7.399	7.407	(0.993)	104167	5.00000	4.8503
24 Indeno(1,2,3-cd)pyrene	276	8.169	8.176	(1.096)	81971	5.00000	4.4490(M)
25 Dibenzo(a,h)anthracene	278	8.185	8.192	(1.098)	92232	5.00000	4.8037
26 Benzo(g,h,i)perylene	276	8.372	8.385	(1.123)	94413	5.00000	4.8178

QC Flag Legend

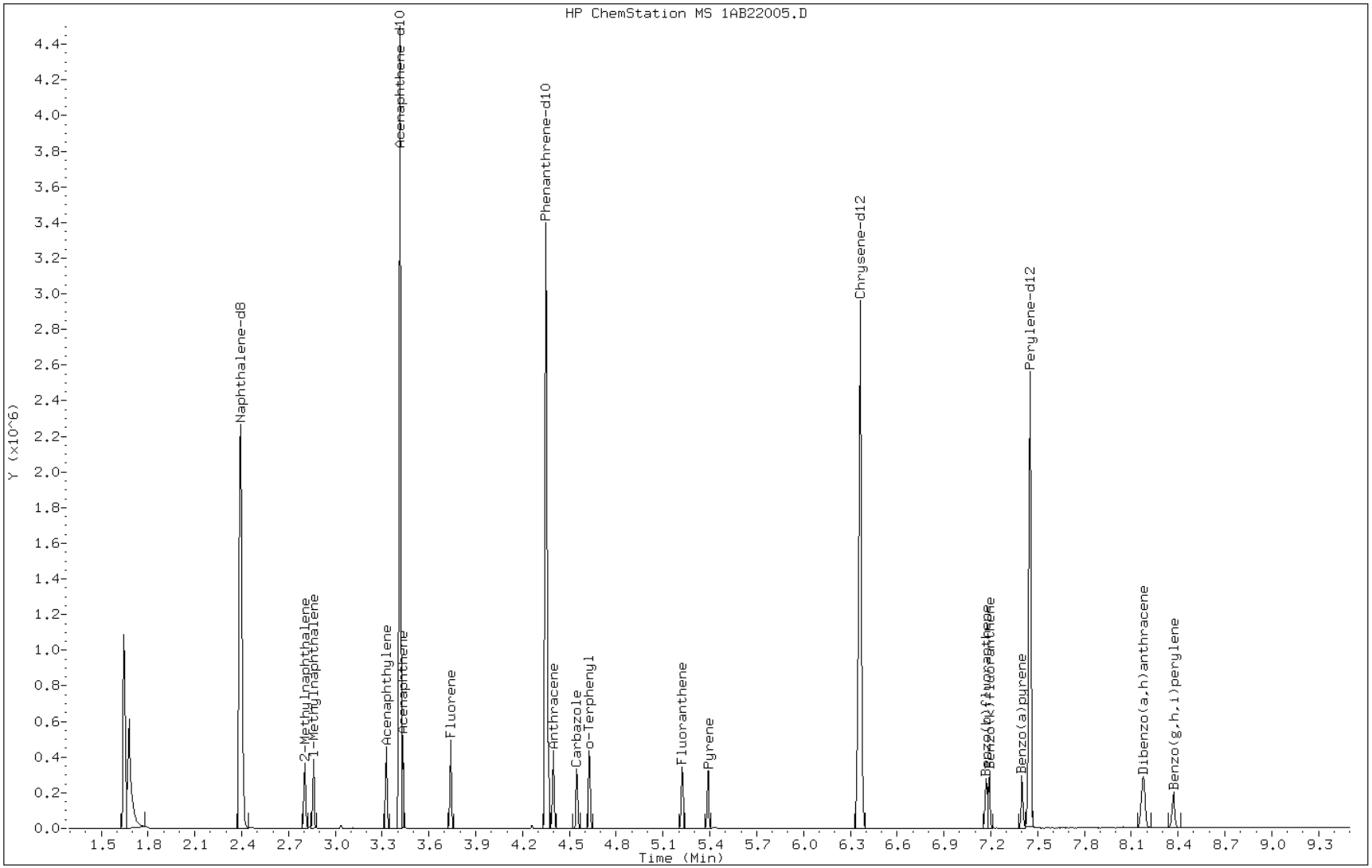
M - Compound response manually integrated.

Data File: 1AB22005.D

Date: 22-FEB-2013 11:31

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

Data File: 1AB22005.D
Inj. Date and Time: 22-FEB-2013 11:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

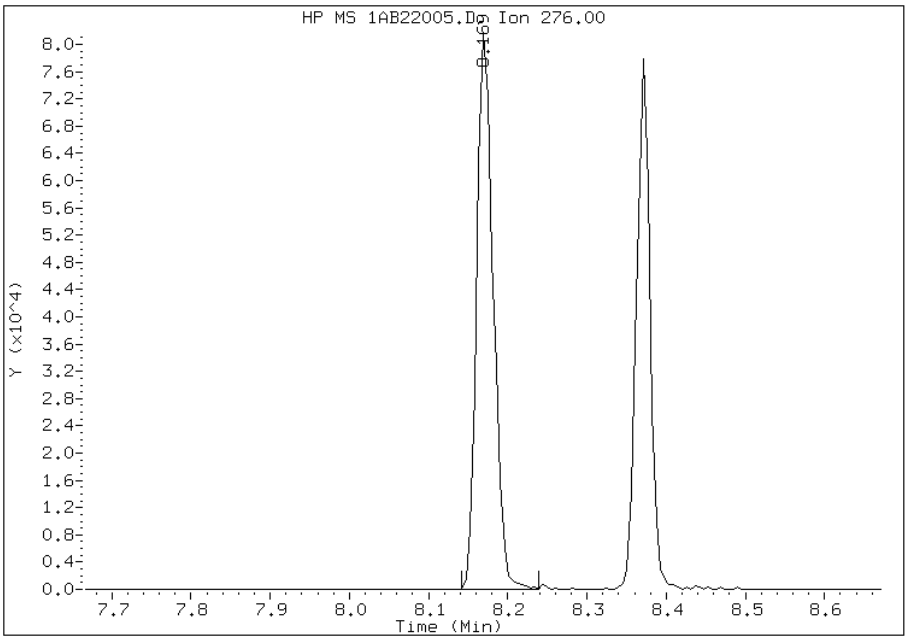
Processing Integration Results

RT: 8.17

Response: 116998

Amount: 6

Conc: 6



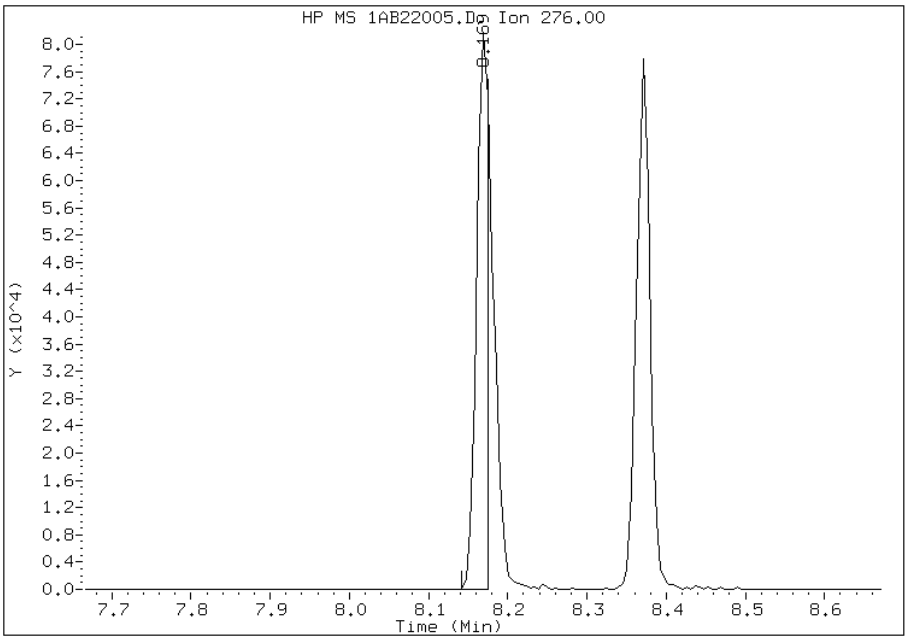
Manual Integration Results

RT: 8.17

Response: 81971

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:54
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 11:47
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:31 Cal File: 1AB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.391	2.396	(1.000)	998088	40.0000	
* 6 Acenaphthene-d10	164	3.417	3.416	(1.000)	656726	40.0000	
* 10 Phenanthrene-d10	188	4.352	4.351	(1.000)	967220	40.0000	
$ 14 o-Terphenyl	230	4.630	4.634	(1.064)	136353	10.0000	9.6882
* 18 Chrysene-d12	240	6.366	6.365	(1.000)	864311	40.0000	
* 23 Perylene-d12	264	7.456	7.455	(1.000)	916189	40.0000	
2 Naphthalene	128	2.402	2.401	(1.004)	240277	10.0000	9.9906
3 2-Methylnaphthalene	141	2.803	2.807	(1.172)	121491	10.0000	9.7853
4 1-Methylnaphthalene	142	2.861	2.861	(1.197)	134180	10.0000	9.7051
5 Acenaphthylene	152	3.331	3.331	(0.975)	243677	10.0000	9.9374
7 Acenaphthene	154	3.433	3.433	(1.005)	133244	10.0000	9.4039
9 Fluorene	166	3.743	3.742	(1.095)	165999	10.0000	9.2825
11 Phenanthrene	178	4.368	4.367	(1.004)	234292	10.0000	9.7451
12 Anthracene	178	4.400	4.399	(1.011)	238178	10.0000	10.1990
13 Carbazole	167	4.549	4.554	(1.045)	202035	10.0000	9.8003
15 Fluoranthene	202	5.222	5.227	(1.200)	241853	10.0000	10.0611
16 Pyrene	202	5.393	5.393	(0.847)	254540	10.0000	10.0404
17 Benzo(a)anthracene	228	6.355	6.355	(0.998)	256962	10.0000	9.9568
19 Chrysene	228	6.382	6.387	(1.003)	229916	10.0000	9.9611
20 Benzo(b)fluoranthene	252	7.172	7.177	(0.962)	230016	10.0000	9.9036
21 Benzo(k)fluoranthene	252	7.194	7.199	(0.965)	236303	10.0000	10.1130
22 Benzo(a)pyrene	252	7.402	7.407	(0.993)	215789	10.0000	10.1454
24 Indeno(1,2,3-cd)pyrene	276	8.171	8.176	(1.096)	197900	10.0000	10.8454(M)
25 Dibenzo(a,h)anthracene	278	8.187	8.192	(1.098)	190519	10.0000	10.0192
26 Benzo(g,h,i)perylene	276	8.374	8.385	(1.123)	197121	10.0000	10.1566

QC Flag Legend

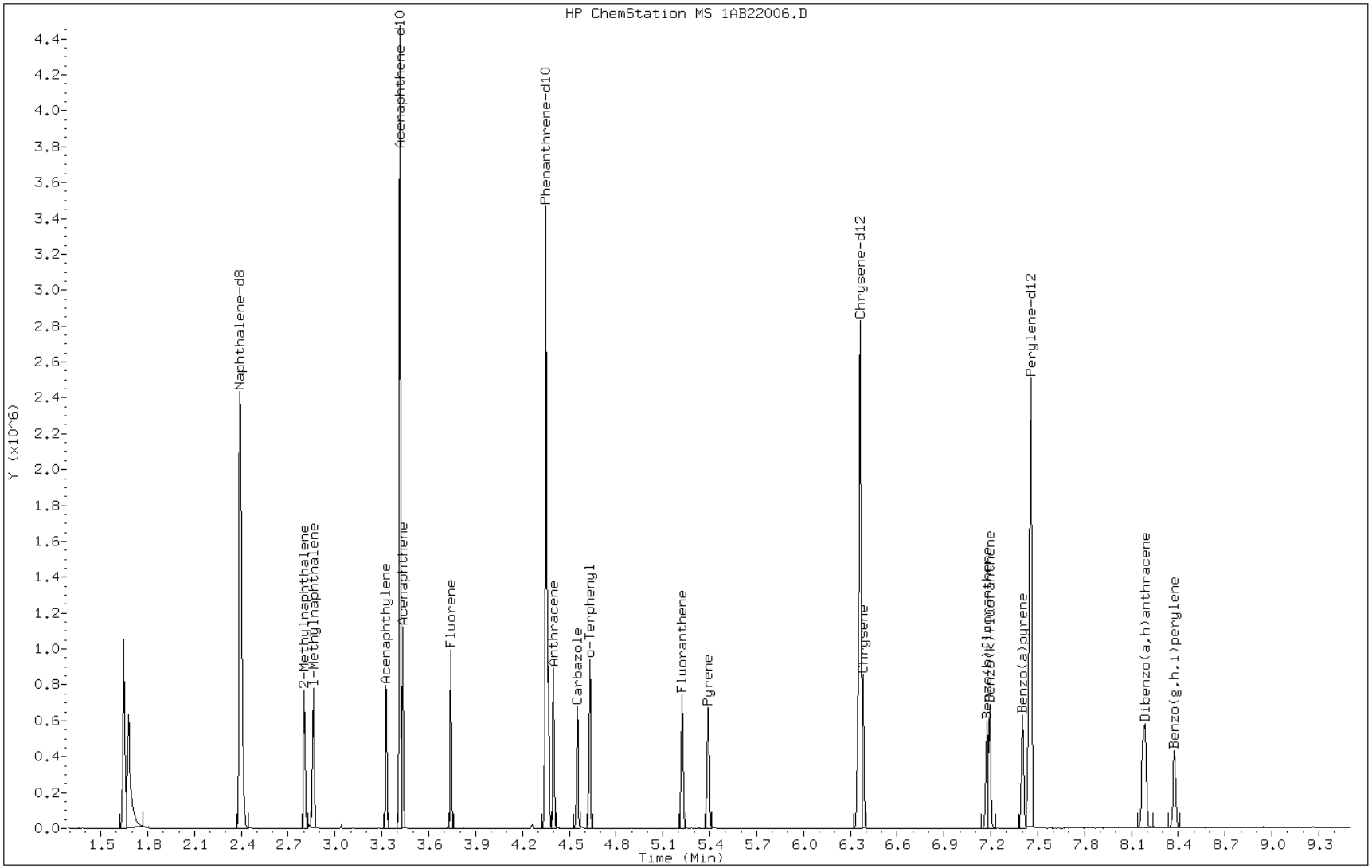
M - Compound response manually integrated.

Data File: 1AB22006.D

Date: 22-FEB-2013 11:47

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512361 Operator: SCC



Manual Integration Report

Data File: 1AB22006.D
Inj. Date and Time: 22-FEB-2013 11:47
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

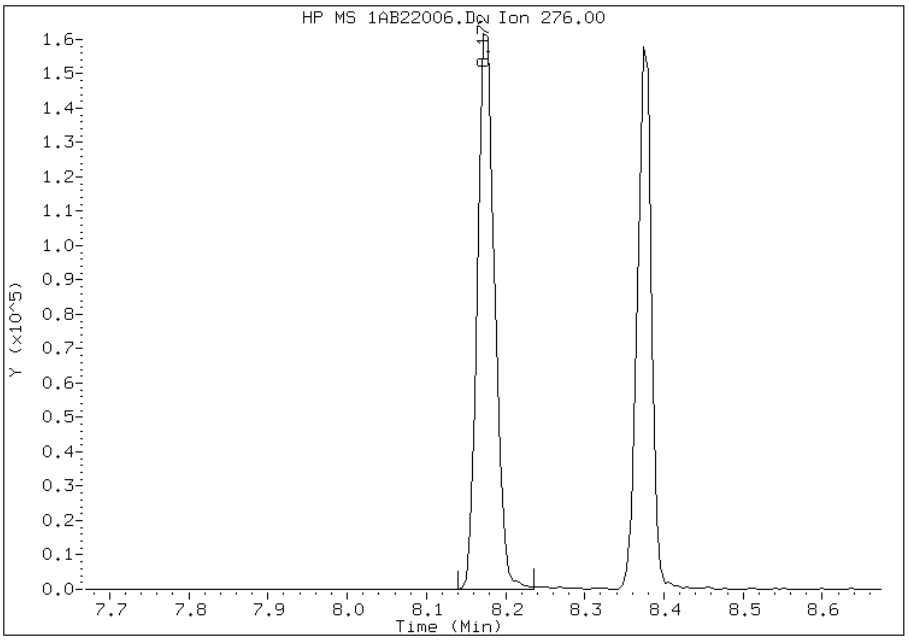
Processing Integration Results

RT: 8.17

Response: 242829

Amount: 11

Conc: 11



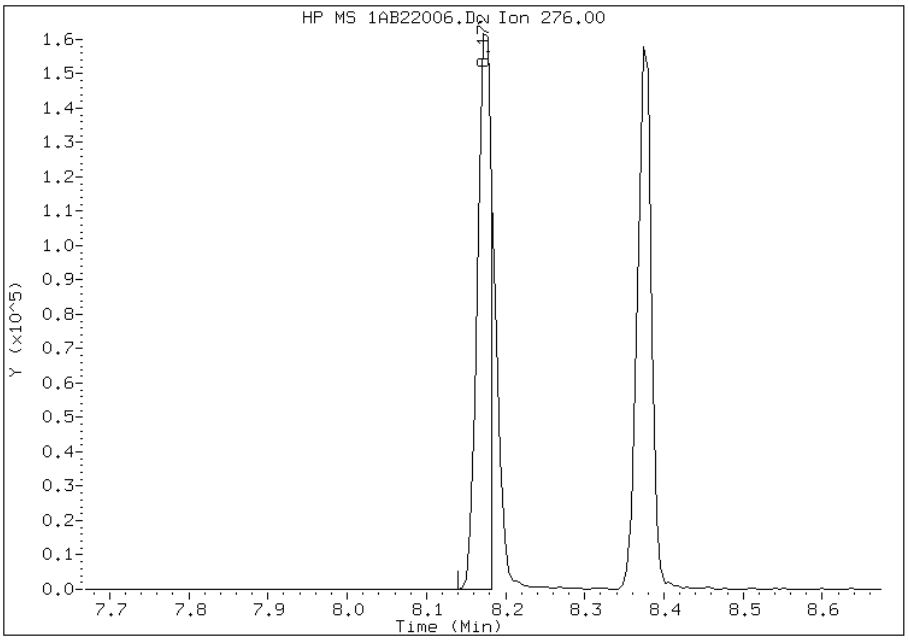
Manual Integration Results

RT: 8.17

Response: 197900

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:54
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 12:02
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:47 Cal File: 1AB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.396	2.396	(1.000)	991704	40.0000	
* 6 Acenaphthene-d10	164	3.416	3.416	(1.000)	622858	40.0000	
* 10 Phenanthrene-d10	188	4.351	4.351	(1.000)	968921	40.0000	
$ 14 o-Terphenyl	230	4.634	4.634	(1.065)	269717	20.0000	19.1304
* 18 Chrysene-d12	240	6.365	6.365	(1.000)	842371	40.0000	
* 23 Perylene-d12	264	7.455	7.455	(1.000)	860097	40.0000	
2 Naphthalene	128	2.401	2.401	(1.002)	470879	20.0000	19.7050
3 2-Methylnaphthalene	141	2.807	2.807	(1.172)	248487	20.0000	20.1429
4 1-Methylnaphthalene	142	2.861	2.861	(1.194)	271250	20.0000	19.7457
5 Acenaphthylene	152	3.331	3.331	(0.975)	493767	20.0000	21.2312
7 Acenaphthene	154	3.433	3.433	(1.005)	264764	20.0000	19.7023
9 Fluorene	166	3.742	3.742	(1.095)	334396	20.0000	19.7158
11 Phenanthrene	178	4.367	4.367	(1.004)	480919	20.0000	19.9683
12 Anthracene	178	4.399	4.399	(1.011)	472782	20.0000	20.2094
13 Carbazole	167	4.554	4.554	(1.047)	406225	20.0000	19.6706
15 Fluoranthene	202	5.227	5.227	(1.201)	495614	20.0000	20.5813
16 Pyrene	202	5.393	5.393	(0.847)	525727	20.0000	21.2776
17 Benzo(a)anthracene	228	6.355	6.355	(0.998)	478213	20.0000	19.0125
19 Chrysene	228	6.387	6.387	(1.003)	451380	20.0000	20.0655
20 Benzo(b)fluoranthene	252	7.177	7.177	(0.963)	467596	20.0000	21.4460
21 Benzo(k)fluoranthene	252	7.199	7.199	(0.966)	449664	20.0000	20.4993
22 Benzo(a)pyrene	252	7.407	7.407	(0.994)	424369	20.0000	21.2532
24 Indeno(1,2,3-cd)pyrene	276	8.176	8.176	(1.097)	373229	20.0000	21.7877(M)
25 Dibenzo(a,h)anthracene	278	8.192	8.192	(1.099)	375714	20.0000	21.0471
26 Benzo(g,h,i)perylene	276	8.385	8.385	(1.125)	381649	20.0000	20.9468

QC Flag Legend

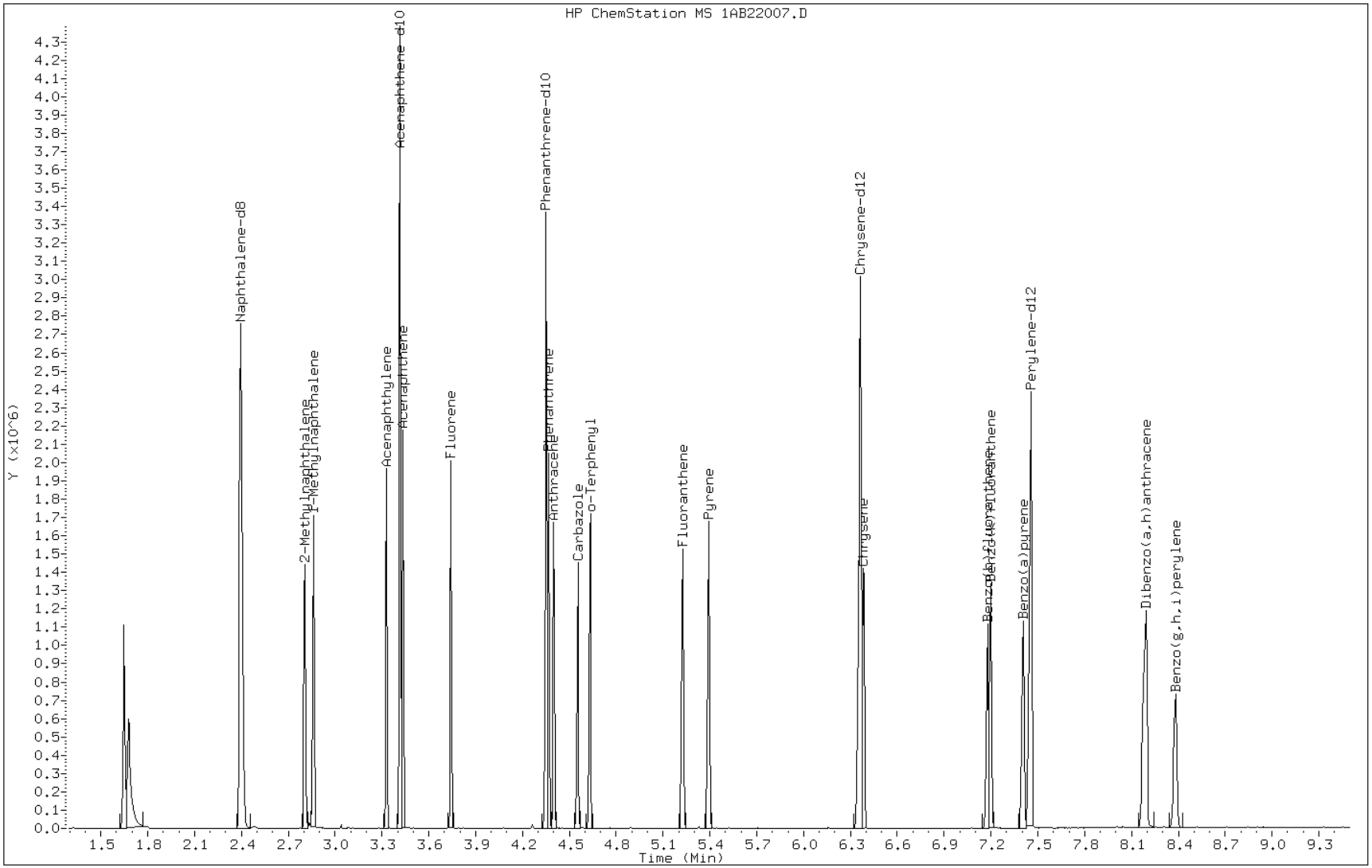
M - Compound response manually integrated.

Data File: 1AB22007.D

Date: 22-FEB-2013 12:02

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1AB22007.D
Inj. Date and Time: 22-FEB-2013 12:02
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

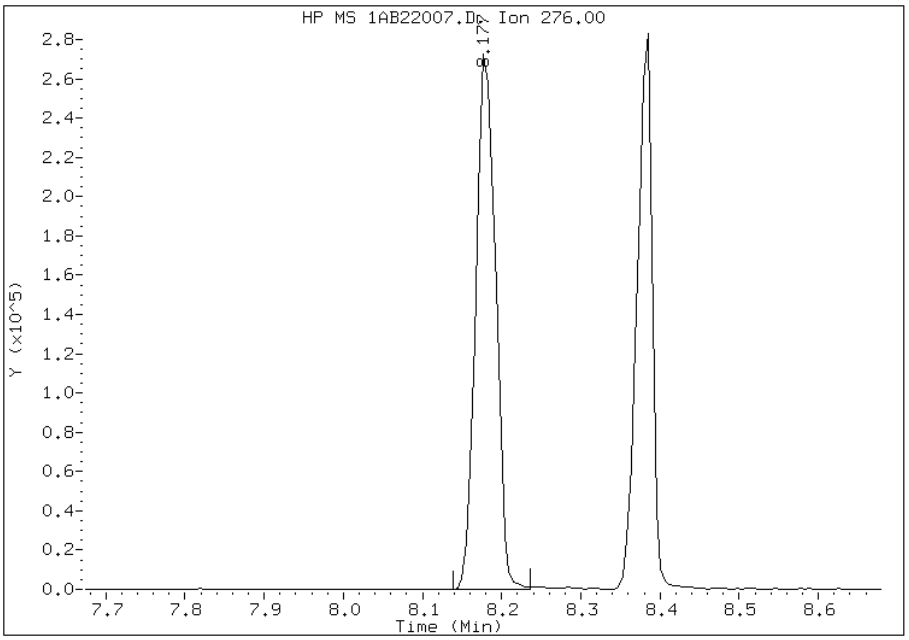
Processing Integration Results

RT: 8.18

Response: 469388

Amount: 25

Conc: 25



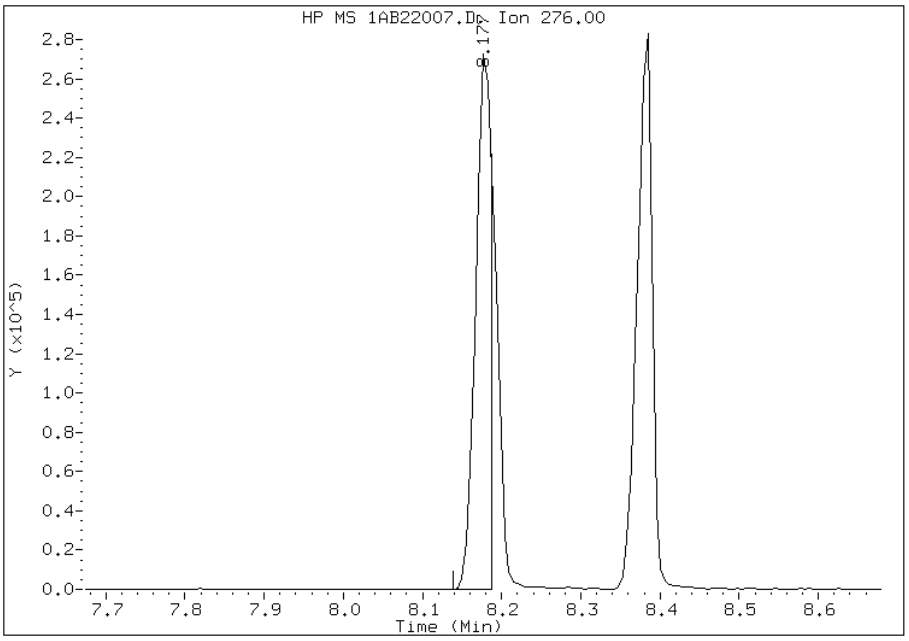
Manual Integration Results

RT: 8.18

Response: 373229

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:51
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 12:17
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:02 Cal File: 1AB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.389	2.396	(1.000)	991596	40.0000	
* 6 Acenaphthene-d10	164	3.415	3.416	(1.000)	638966	40.0000	
* 10 Phenanthrene-d10	188	4.355	4.351	(1.000)	958764	40.0000	
$ 14 o-Terphenyl	230	4.633	4.634	(1.064)	454607	30.0000	32.5859
* 18 Chrysene-d12	240	6.369	6.365	(1.000)	877633	40.0000	
* 23 Perylene-d12	264	7.459	7.455	(1.000)	909629	40.0000	
2 Naphthalene	128	2.405	2.401	(1.007)	755068	30.0000	31.6010
3 2-Methylnaphthalene	141	2.806	2.807	(1.174)	392415	30.0000	31.8135
4 1-Methylnaphthalene	142	2.859	2.861	(1.197)	443774	30.0000	32.3081
5 Acenaphthylene	152	3.329	3.331	(0.975)	777111	30.0000	32.5722
7 Acenaphthene	154	3.436	3.433	(1.006)	451477	30.0000	32.7495
9 Fluorene	166	3.746	3.742	(1.097)	560865	30.0000	32.2347
11 Phenanthrene	178	4.371	4.367	(1.004)	768793	30.0000	32.2593
12 Anthracene	178	4.403	4.399	(1.011)	760474	30.0000	32.8515
13 Carbazole	167	4.558	4.554	(1.047)	670812	30.0000	32.8268
15 Fluoranthene	202	5.231	5.227	(1.201)	791244	30.0000	33.2061
16 Pyrene	202	5.397	5.393	(0.847)	842188	30.0000	32.7162
17 Benzo(a)anthracene	228	6.358	6.355	(0.998)	771629	30.0000	29.4453
19 Chrysene	228	6.390	6.387	(1.003)	708418	30.0000	30.2265
20 Benzo(b)fluoranthene	252	7.181	7.177	(0.963)	734907	30.0000	31.8706
21 Benzo(k)fluoranthene	252	7.202	7.199	(0.966)	700196	30.0000	30.1824
22 Benzo(a)pyrene	252	7.411	7.407	(0.994)	676641	30.0000	32.0421
24 Indeno(1,2,3-cd)pyrene	276	8.191	8.176	(1.098)	584416	30.0000	32.2584(M)
25 Dibenzo(a,h)anthracene	278	8.207	8.192	(1.100)	595548	30.0000	31.5453
26 Benzo(g,h,i)perylene	276	8.394	8.385	(1.125)	604332	30.0000	31.3627

QC Flag Legend

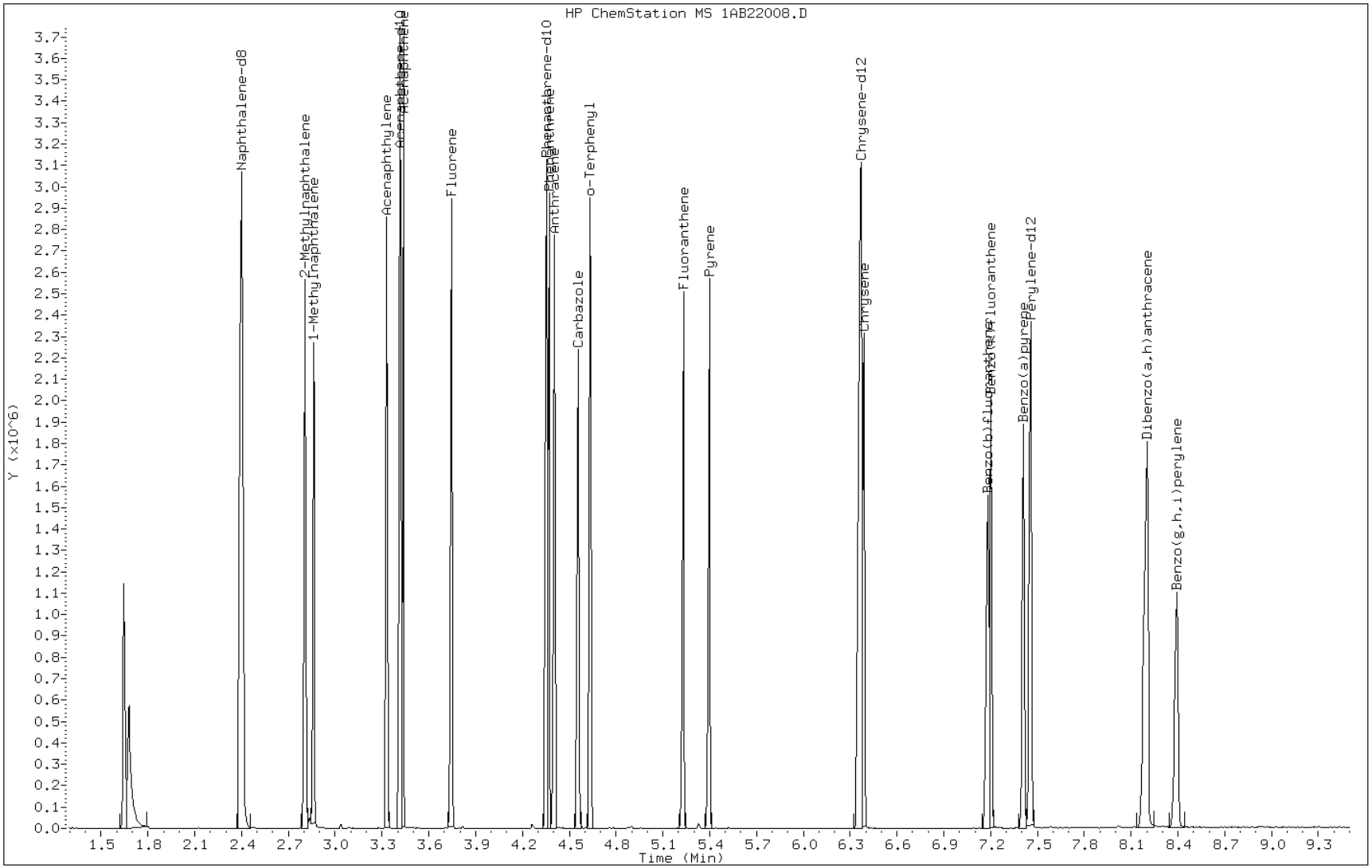
M - Compound response manually integrated.

Data File: 1AB22008.D

Date: 22-FEB-2013 12:17

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512373 Operator: SCC



Manual Integration Report

Data File: 1AB22008.D
Inj. Date and Time: 22-FEB-2013 12:17
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

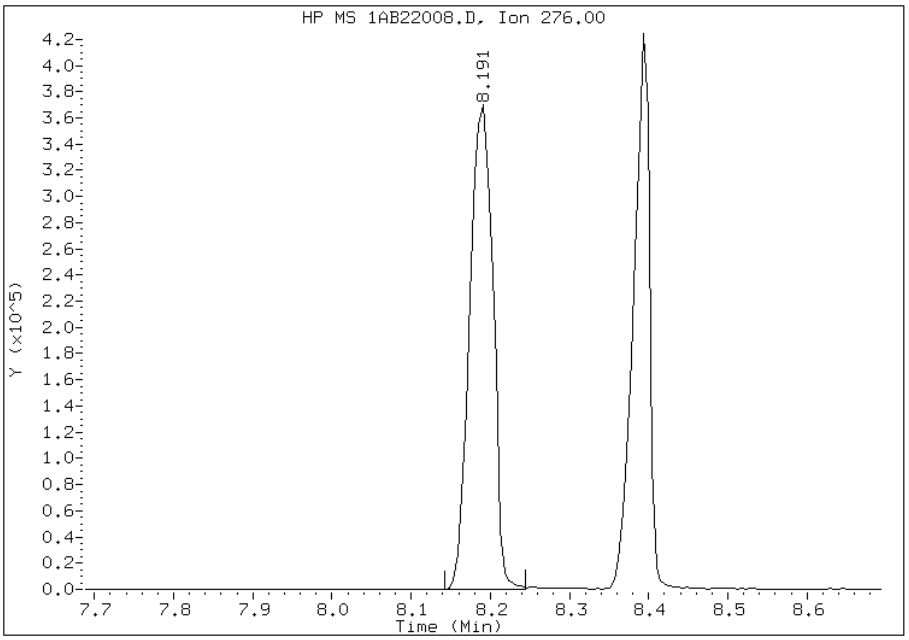
Processing Integration Results

RT: 8.19

Response: 747475

Amount: 34

Conc: 34



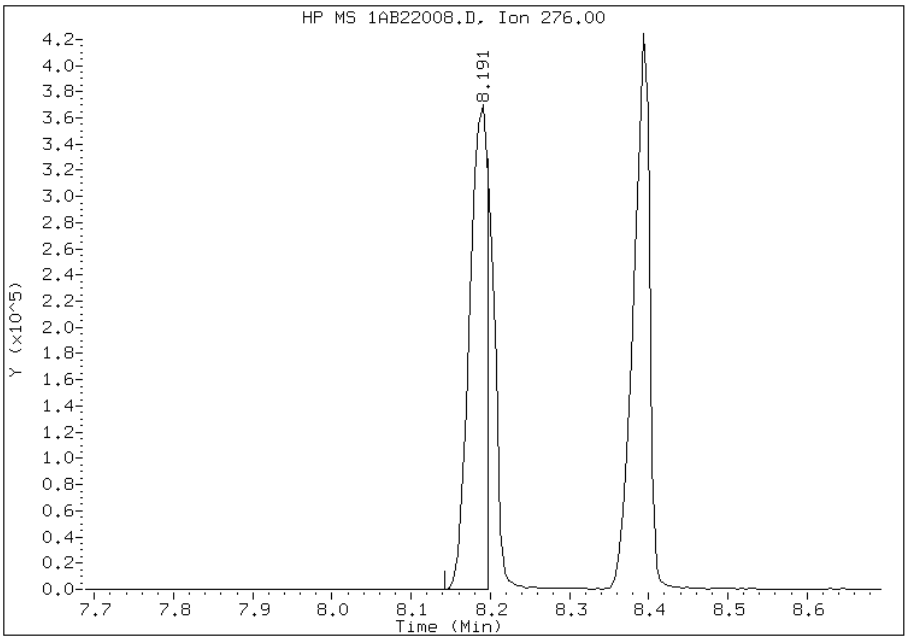
Manual Integration Results

RT: 8.19

Response: 584416

Amount: 32

Conc: 32



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:55
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 12:32
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:17 Cal File: 1AB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.398	2.396	(1.000)	998404	40.0000	
* 6 Acenaphthene-d10	164	3.419	3.416	(1.000)	614159	40.0000	
* 10 Phenanthrene-d10	188	4.354	4.351	(1.000)	947061	40.0000	
$ 14 o-Terphenyl	230	4.637	4.634	(1.065)	805122	50.0000	58.4237(A)
* 18 Chrysene-d12	240	6.373	6.365	(1.000)	892104	40.0000	
* 23 Perylene-d12	264	7.457	7.455	(1.000)	879311	40.0000	
2 Naphthalene	128	2.404	2.401	(1.002)	1297783	50.0000	53.9443(A)
3 2-Methylnaphthalene	141	2.810	2.807	(1.171)	686127	50.0000	55.2458(A)
4 1-Methylnaphthalene	142	2.863	2.861	(1.194)	784083	50.0000	56.6945(A)
5 Acenaphthylene	152	3.333	3.331	(0.975)	1395142	50.0000	60.8387(A)
7 Acenaphthene	154	3.440	3.433	(1.006)	828395	50.0000	62.5178(A)
9 Fluorene	166	3.745	3.742	(1.095)	1022945	50.0000	61.1667(A)
11 Phenanthrene	178	4.375	4.367	(1.005)	1384065	50.0000	58.7944(A)
12 Anthracene	178	4.407	4.399	(1.012)	1356027	50.0000	59.3025(A)
13 Carbazole	167	4.562	4.554	(1.048)	1130623	50.0000	56.0118(A)
15 Fluoranthene	202	5.235	5.227	(1.202)	1364989	50.0000	57.9923(A)
16 Pyrene	202	5.401	5.393	(0.847)	1493658	50.0000	57.0824(A)
17 Benzo(a)anthracene	228	6.357	6.355	(0.997)	1351230	50.0000	50.7265(A)
19 Chrysene	228	6.394	6.387	(1.003)	1205320	50.0000	50.5940(A)
20 Benzo(b)fluoranthene	252	7.185	7.177	(0.963)	1222288	50.0000	54.8345(A)
21 Benzo(k)fluoranthene	252	7.212	7.199	(0.967)	1218648	50.0000	54.3418(A)
22 Benzo(a)pyrene	252	7.420	7.407	(0.995)	1142888	50.0000	55.9872(A)
24 Indeno(1,2,3-cd)pyrene	276	8.200	8.176	(1.100)	960232	50.0000	54.8300(AM)
25 Dibenzo(a,h)anthracene	278	8.216	8.192	(1.102)	1030642	50.0000	56.4740(A)
26 Benzo(g,h,i)perylene	276	8.403	8.385	(1.127)	1012084	50.0000	54.3345(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AB22009.D

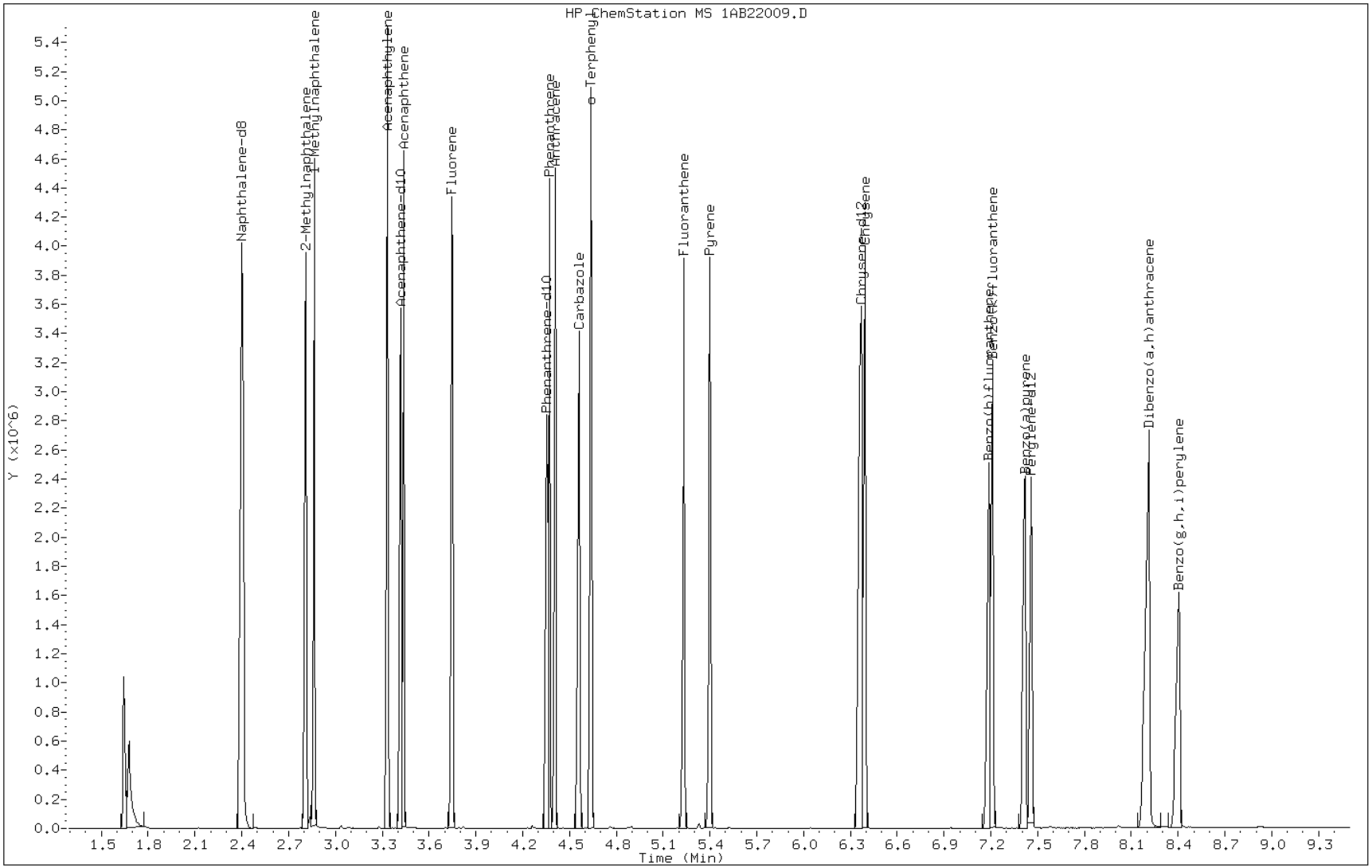
Date: 22-FEB-2013 12:32

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512374

Operator: SCC



Manual Integration Report

Data File: 1AB22009.D
Inj. Date and Time: 22-FEB-2013 12:32
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

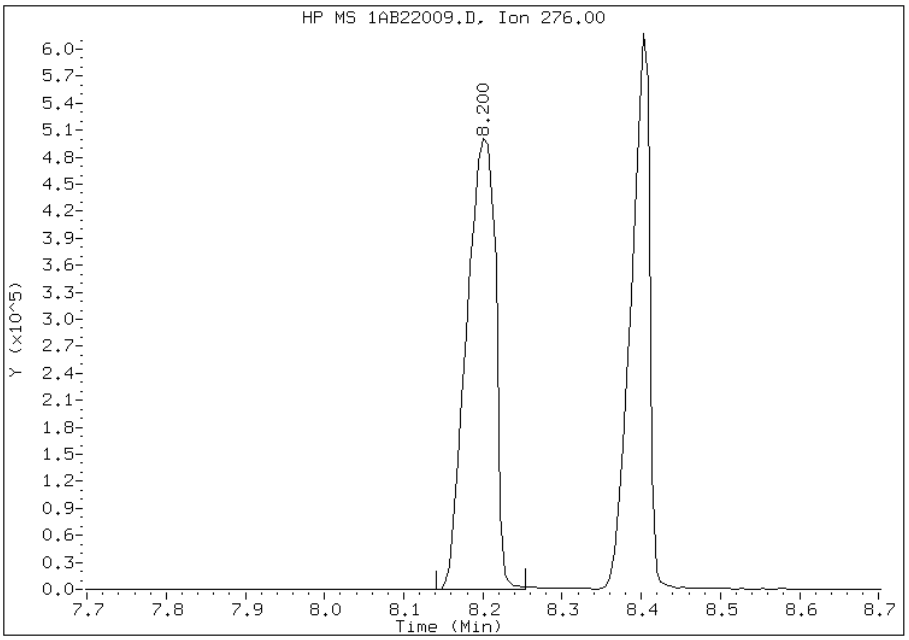
Processing Integration Results

RT: 8.20

Response: 1257157

Amount: 57

Conc: 57



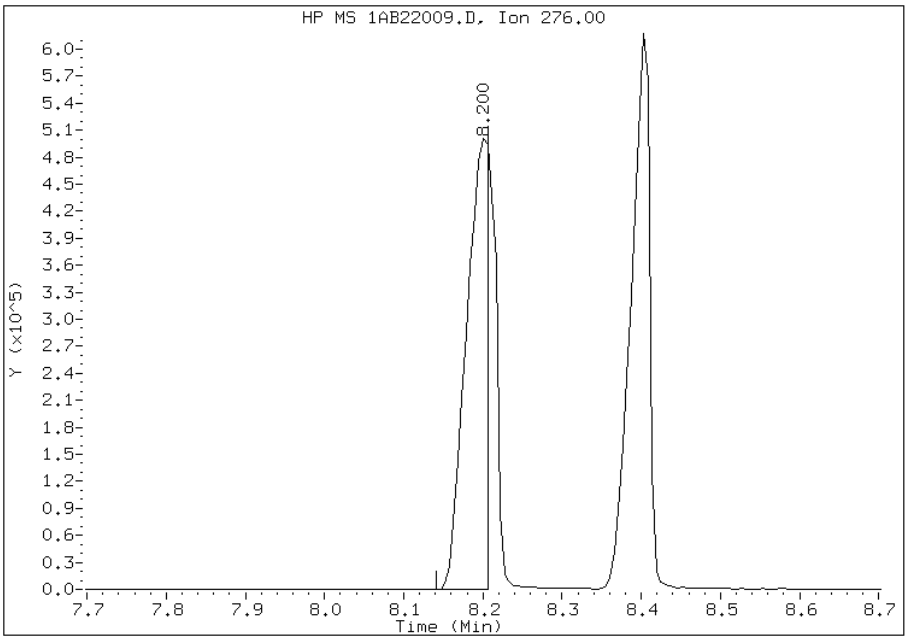
Manual Integration Results

RT: 8.20

Response: 960232

Amount: 55

Conc: 55



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:56
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-2 Analy Batch No.: 134776

SDG No.: 68087545-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9712 1.0467	1.0104 1.0669	1.0471	1.0871	1.0600	Ave		1.0414			0.0000	3.7		15.0			
2-Methylnaphthalene	0.7372 0.6936	0.6277 0.6981	0.6498	0.7330	0.7230	Ave		0.6946			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5602 0.6374	0.5666 0.6603	0.6541	0.6977	0.6523	Ave		0.6326			0.0000	8.0		15.0			
Acenaphthylene	1.6507 1.6289	1.4259 1.6887	1.5782	1.6615	1.6547	Ave		1.6127			0.0000	5.5		15.0			
Acenaphthene	1.1992 0.9520	0.9269 0.9711	1.0052	0.9958	0.9664	Ave		1.0024			0.0000	9.0		15.0			
Fluorene	1.2003 1.2968	1.2155 1.3216	1.2084	1.3213	1.3097	Ave		1.2677			0.0000	4.5		15.0			
Phenanthrene	1.3236 1.1268	1.1829 1.1367	1.1369	1.0982	1.0913	Ave		1.1566			0.0000	6.9		15.0			
Anthracene	1.1830 1.1477	1.0495 1.1690	1.1368	1.1486	1.0836	Ave		1.1312			0.0000	4.2		15.0			
Carbazole	1.1097 0.9866	0.9191 1.0122	0.9992	1.0253	0.9866	Ave		1.0055			0.0000	5.7		15.0			
Fluoranthene	1.3263 1.3062	1.1270 1.2838	1.2811	1.2806	1.2615	Ave		1.2666			0.0000	5.1		15.0			
Pyrene	1.0694 1.0644	1.0908 1.1171	1.0556	1.0637	1.0636	Ave		1.0749			0.0000	2.0		15.0			
Benzo[a]anthracene	1.5187 1.0791	1.1715 1.0797	1.0862	1.0840	1.0620	Ave		1.1545			0.0000	14.3		15.0			
Chrysene	1.3833 1.1146	1.1955 1.1060	1.0804	1.1163	1.0913	Ave		1.1553			0.0000	9.3		15.0			
Benzo[b]fluoranthene	1.0729 1.0767	0.9591 1.0902	0.9699	1.0114	1.1373	Ave		1.0453			0.0000	6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-2 Analy Batch No.: 134776

SDG No.: 68087545-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0803 1.0851	0.9472 1.1214	1.1337	1.1178	1.0210	Ave		1.0724			0.0000	6.2		15.0			
Benzo[a]pyrene	0.9920 1.0612	0.9445 1.0775	0.9754	1.0337	1.0234	Ave		1.0154			0.0000	4.7		15.0			
Indeno[1,2,3-cd]pyrene	0.9988 0.9513	0.8331 1.0162	0.9231	0.9673	0.9964	Ave		0.9552			0.0000	6.5		15.0			
Dibenz(a,h)anthracene	0.9790 0.9541	0.8572 0.9549	0.9225	0.9559	0.9165	Ave		0.9343			0.0000	4.3		15.0			
Benzo[g,h,i]perylene	1.0736 0.9972	0.9178 1.0017	1.0049	1.0311	0.9680	Ave		0.9992			0.0000	4.9		15.0			
o-Terphenyl	0.5990 0.6241	0.5420 0.6195	0.6120	0.6306	0.6003	Ave		0.6039			0.0000	4.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-2 Analy Batch No.: 134776

SDG No.: 68087545-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-2 Analy Batch No.: 134776

SDG No.: 68087545-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 11:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1174200	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	901777	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1723779	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	5163	0.20000	0.1983
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2248468	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2426654	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	5702	0.20000	0.1865(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	4328	0.20000	0.2122
4 1-Methylnaphthalene	142	4.310	4.310	(1.133)	3289	0.20000	0.1771
5 Acenaphthylene	152	4.804	4.804	(0.982)	7443	0.20000	0.2047
7 Acenaphthene	154	4.915	4.915	(1.005)	5407	0.20000	0.2392
9 Fluorene	166	5.233	5.233	(1.070)	5412	0.20000	0.1893
11 Phenanthrene	178	5.862	5.862	(1.003)	11408	0.20000	0.2288
12 Anthracene	178	5.898	5.898	(1.009)	10196	0.20000	0.2091
13 Carbazole	167	6.004	6.004	(1.027)	9564	0.20000	0.2207
15 Fluoranthene	202	6.704	6.704	(1.147)	11431	0.20000	0.2094
16 Pyrene	202	6.874	6.874	(0.882)	12023	0.20000	0.1989
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	17074	0.20000	0.2631
19 Chrysene	228	7.815	7.815	(1.002)	15552	0.20000	0.2394
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	13018	0.20000	0.2052
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	13108	0.20000	0.2014
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	12036	0.20000	0.1953
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	12119	0.20000	0.2001(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	11879	0.20000	0.2095
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	13026	0.20000	0.2148

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB22003.D

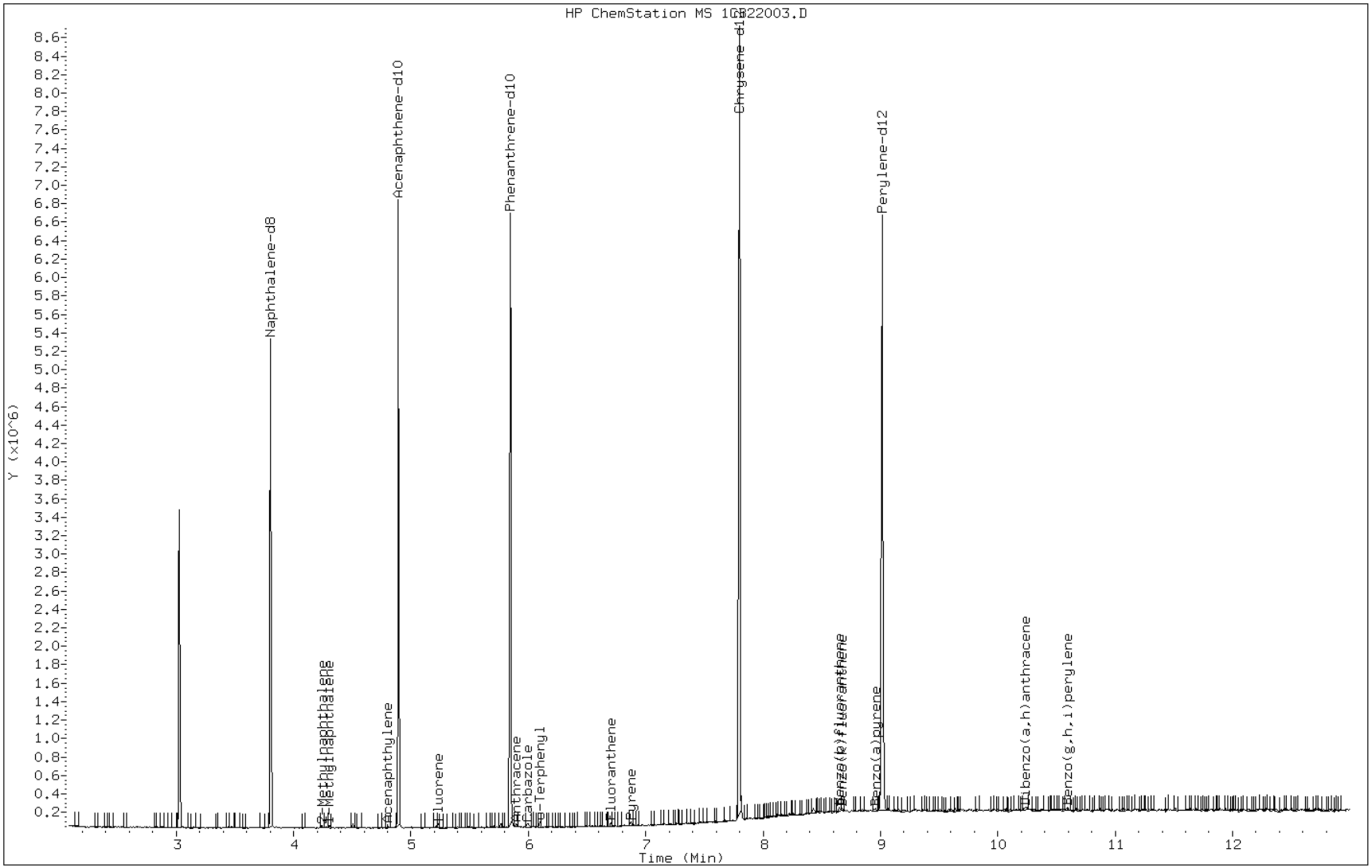
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC



Manual Integration Report

Data File: 1CB22003.D
Inj. Date and Time: 22-FEB-2013 11:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

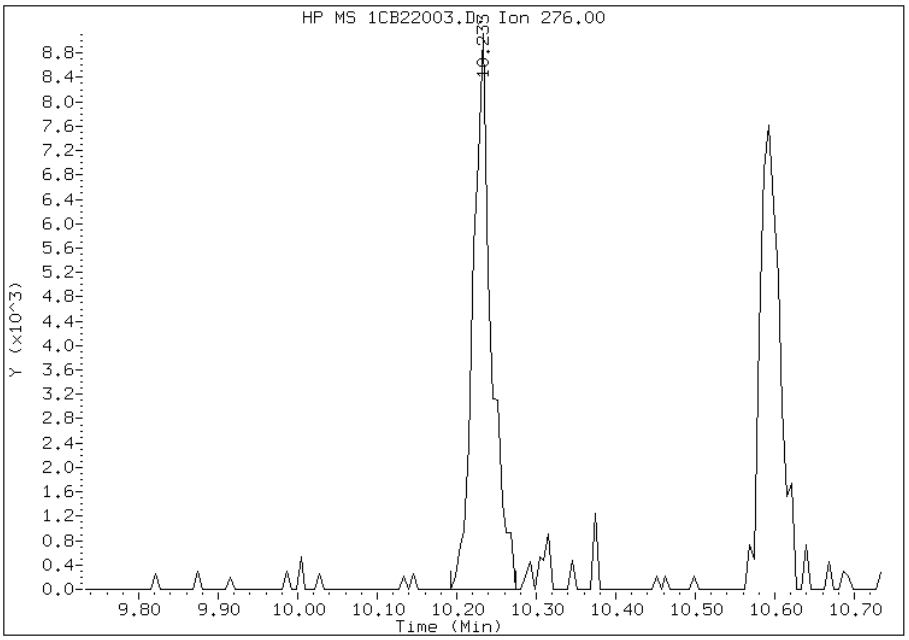
Processing Integration Results

RT: 10.23

Response: 14380

Amount: 0

Conc: 0



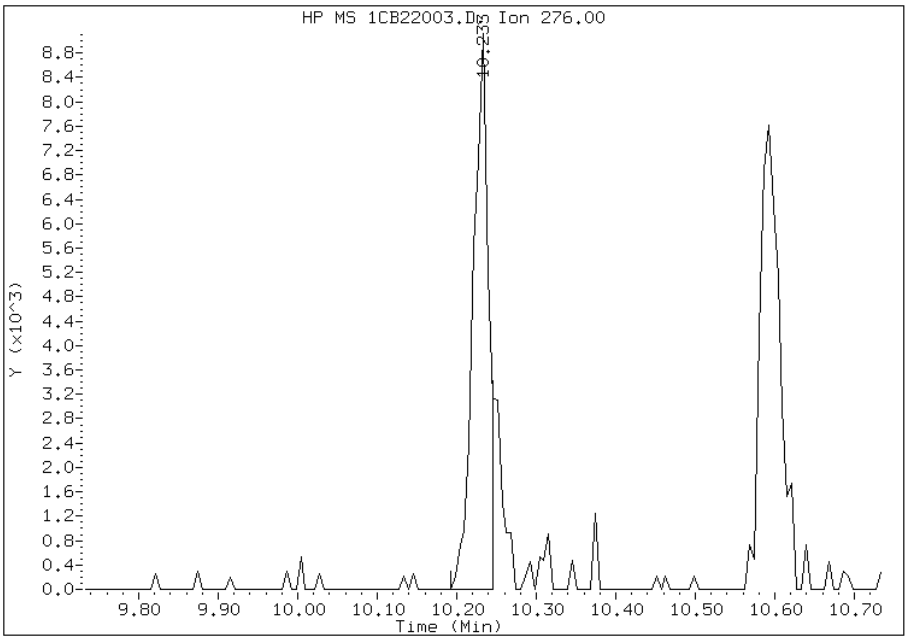
Manual Integration Results

RT: 10.23

Response: 12119

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:13
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1243608	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	931732	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1740509	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	23584	1.00000	0.8974
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2144273	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2349732	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	31413	1.00000	0.9702(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	19516	1.00000	0.9036
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17615	1.00000	0.8955
5 Acenaphthylene	152	4.804	4.804	(0.982)	33214	1.00000	0.8841
7 Acenaphthene	154	4.910	4.910	(1.004)	21590	1.00000	0.9246
9 Fluorene	166	5.233	5.233	(1.070)	28314	1.00000	0.9588
11 Phenanthrene	178	5.862	5.862	(1.003)	51473	1.00000	1.0227
12 Anthracene	178	5.898	5.898	(1.009)	45666	1.00000	0.9277
13 Carbazole	167	6.004	6.004	(1.027)	39992	1.00000	0.9140
15 Fluoranthene	202	6.704	6.704	(1.147)	49039	1.00000	0.8897
16 Pyrene	202	6.874	6.874	(0.882)	58472	1.00000	1.0147
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	62799	1.00000	1.0147
19 Chrysene	228	7.815	7.815	(1.002)	64086	1.00000	1.0347
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	56338	1.00000	0.9174
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	55640	1.00000	0.8832
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	55481	1.00000	0.9301
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134)	48940	1.00000	0.8346(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	50354	1.00000	0.9174
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	53913	1.00000	0.9185

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB22004.D

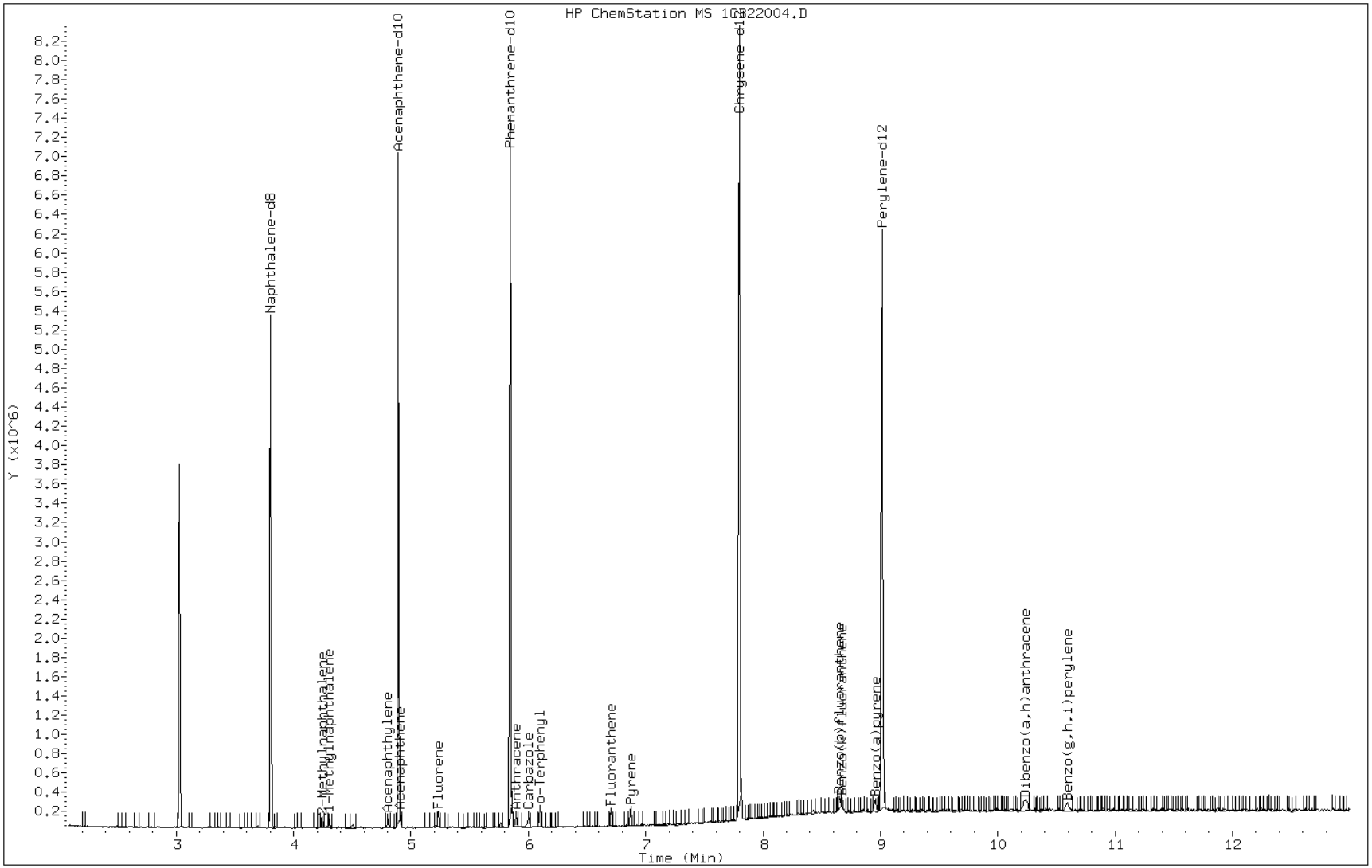
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC



Manual Integration Report

Data File: 1CB22004.D
Inj. Date and Time: 22-FEB-2013 12:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

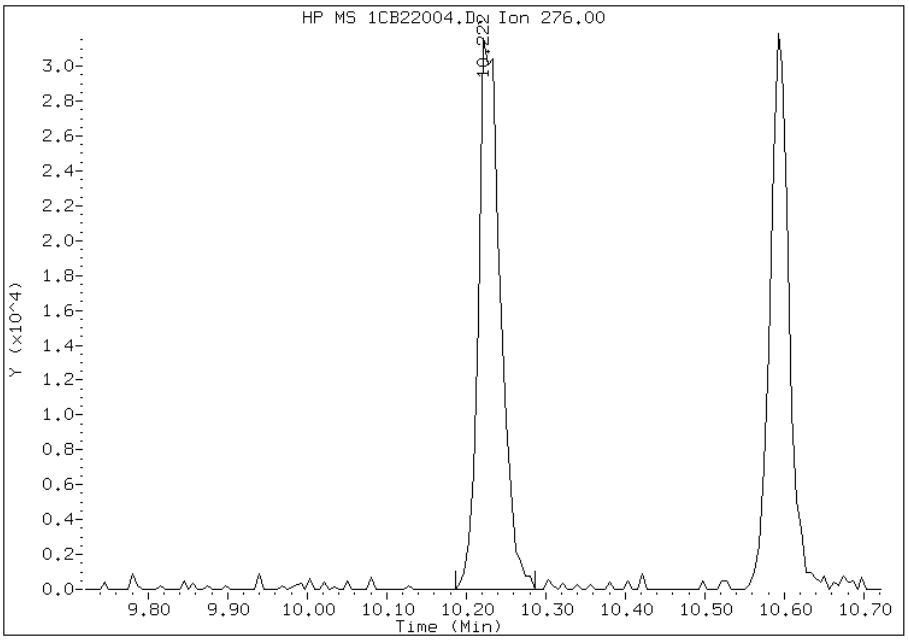
Processing Integration Results

RT: 10.22

Response: 61246

Amount: 1

Conc: 1



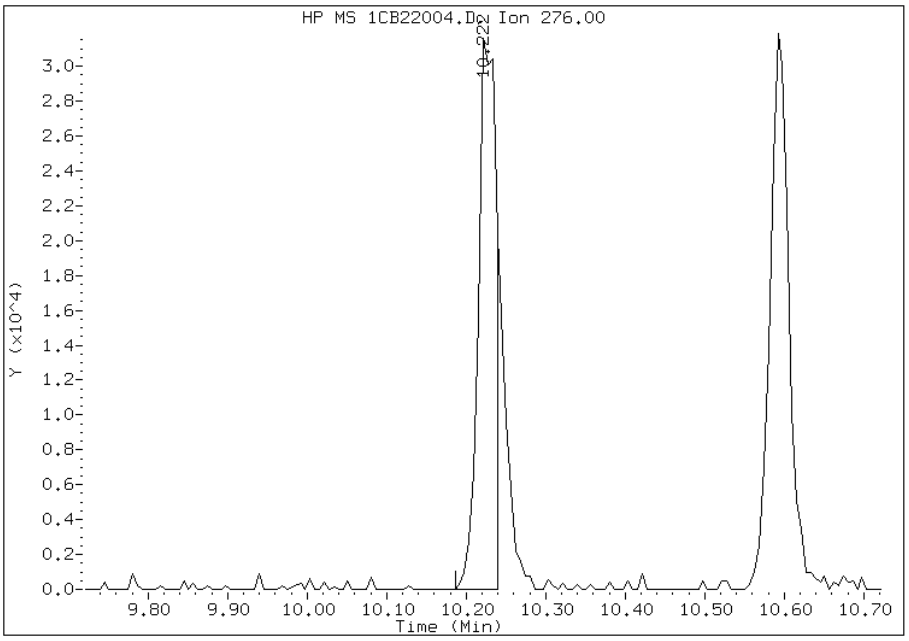
Manual Integration Results

RT: 10.22

Response: 48940

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1133793	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694
5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932
7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139
9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663
11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147
12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249
13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685
15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569
16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043
19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22005.D

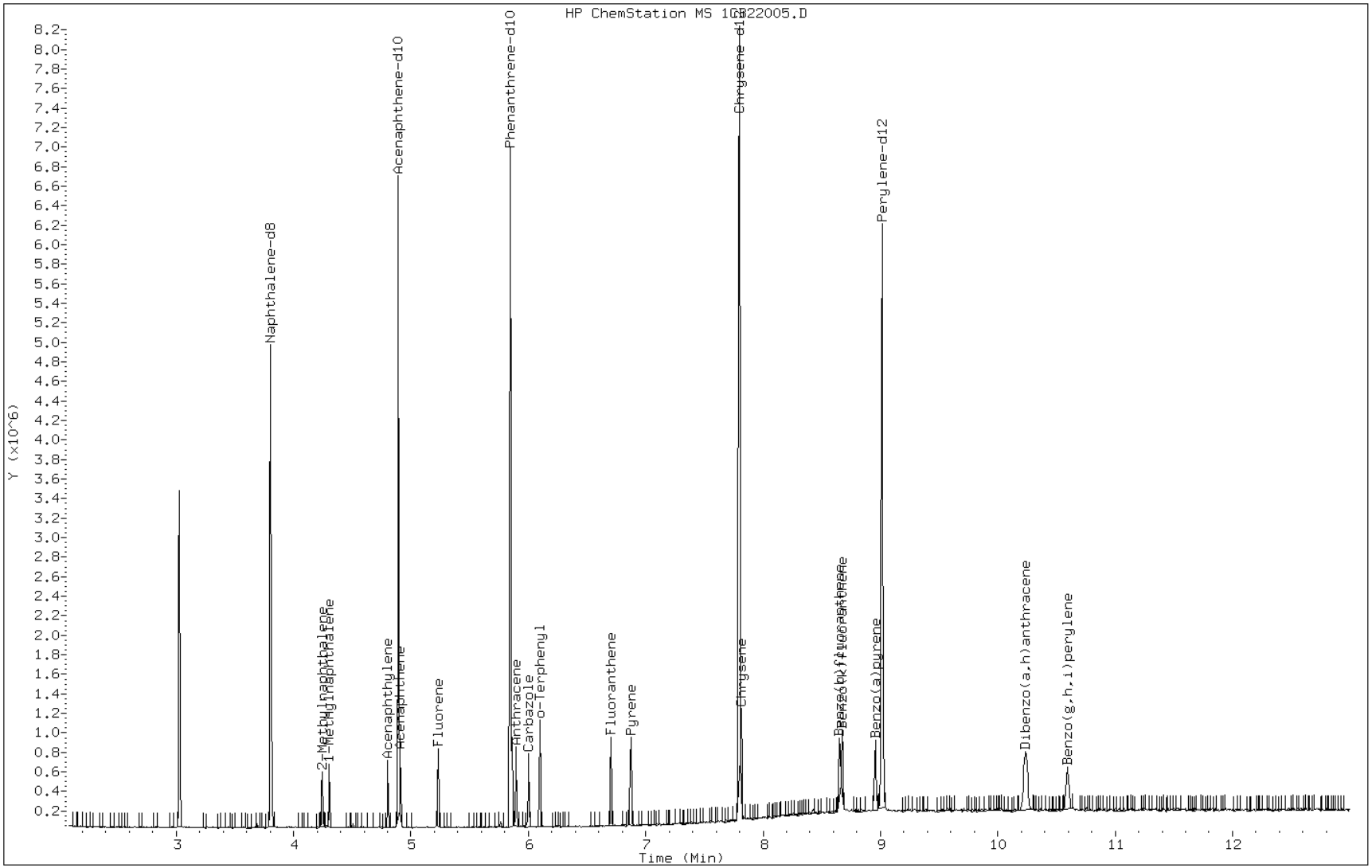
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC



Manual Integration Report

Data File: 1CB22005.D
Inj. Date and Time: 22-FEB-2013 12:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

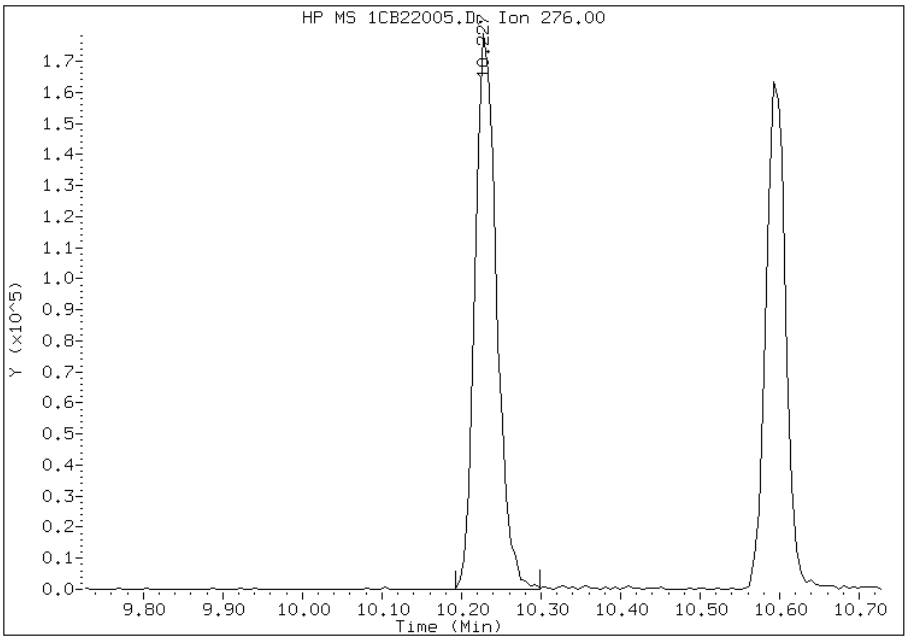
Processing Integration Results

RT: 10.23

Response: 336913

Amount: 6

Conc: 6



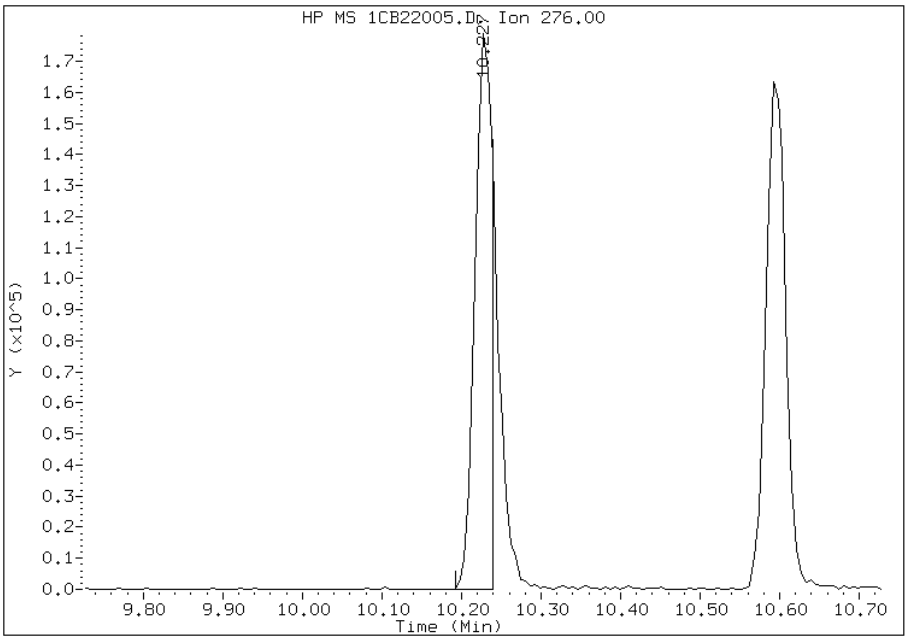
Manual Integration Results

RT: 10.23

Response: 267436

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 12:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1161301	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22006.D

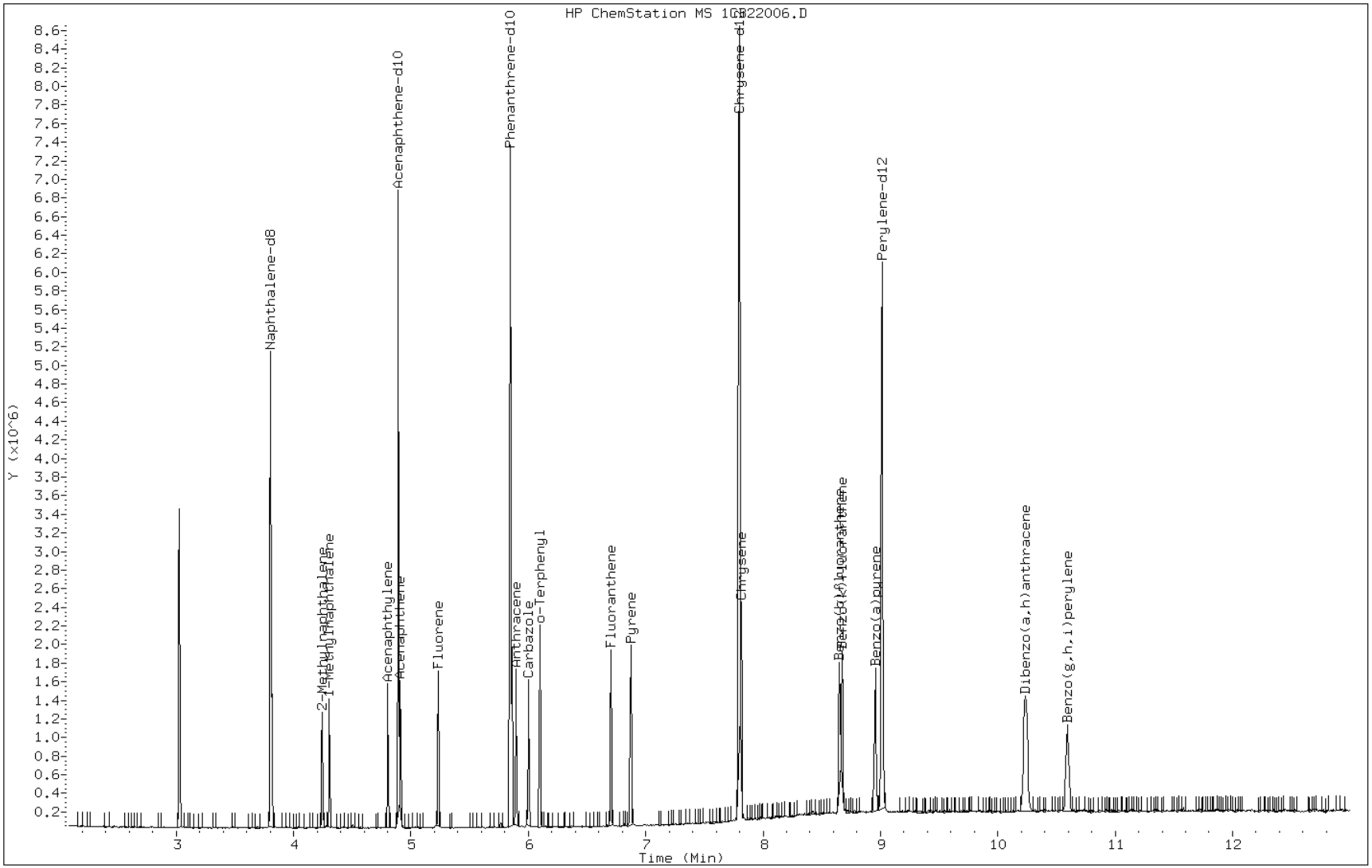
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC



Manual Integration Report

Data File: 1CB22006.D
Inj. Date and Time: 22-FEB-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

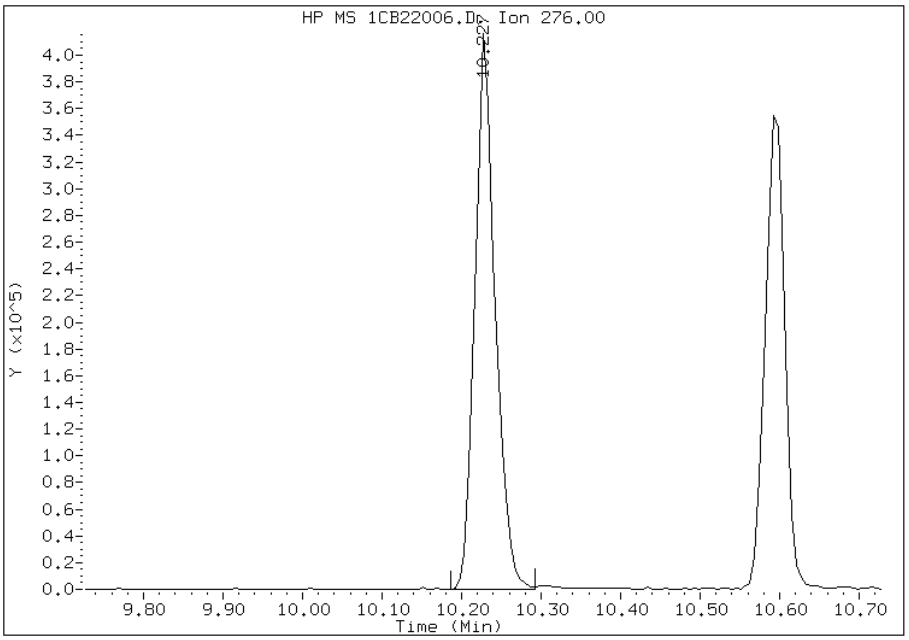
Processing Integration Results

RT: 10.23

Response: 727358

Amount: 13

Conc: 13



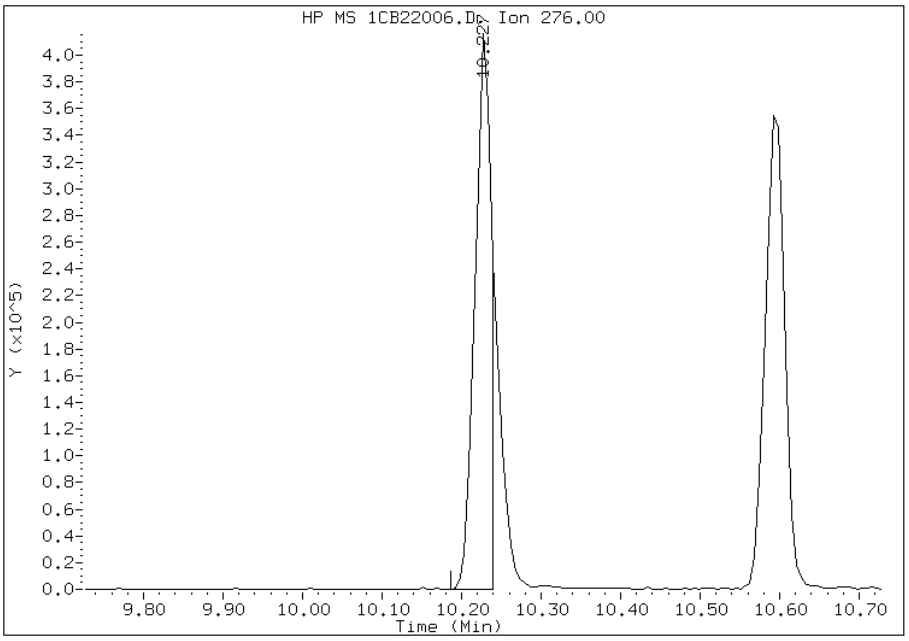
Manual Integration Results

RT: 10.23

Response: 582935

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1215005	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220
5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216
7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831
9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625
11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701
12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582
13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239
15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194
16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986
19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914
20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428
22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186
26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760

QC Flag Legend

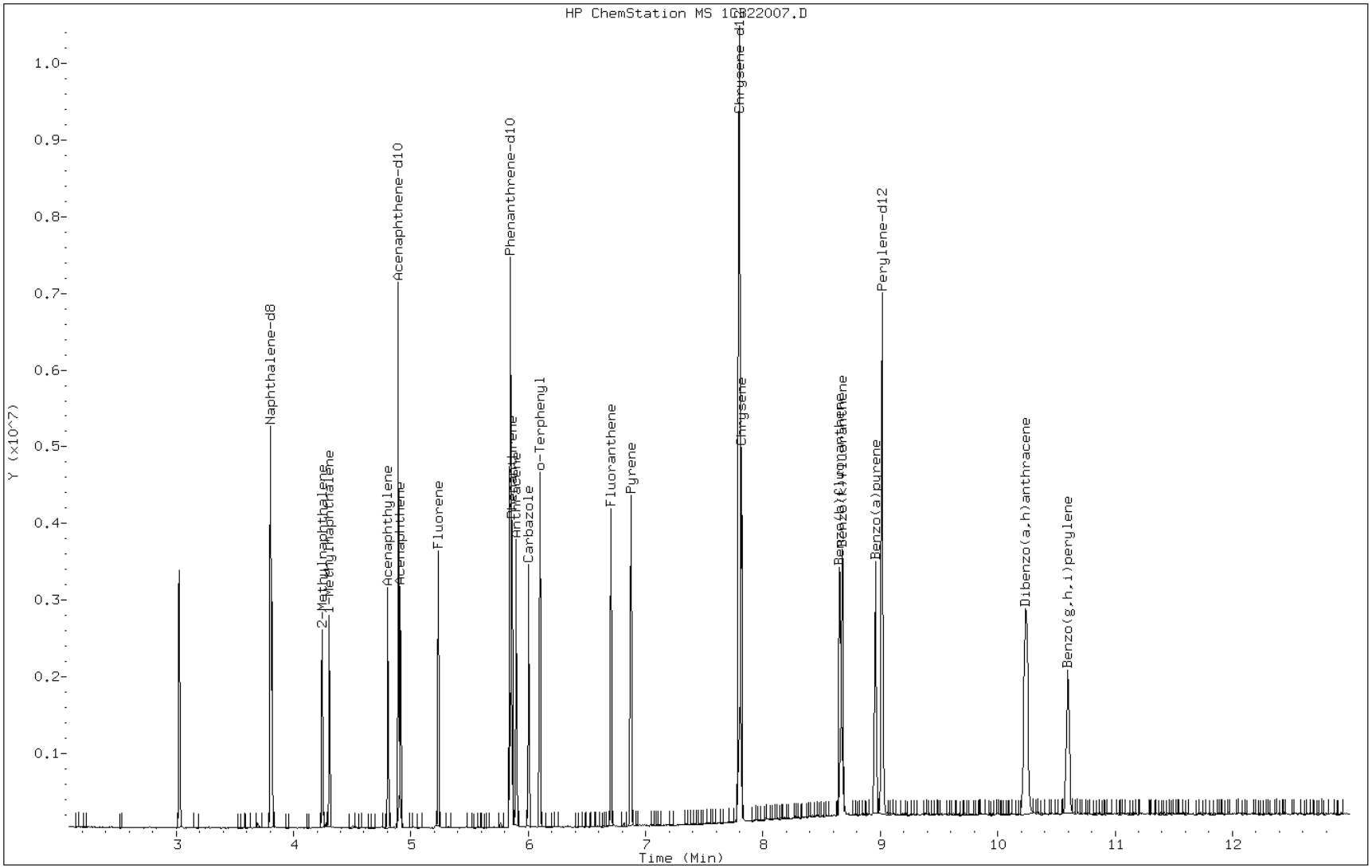
M - Compound response manually integrated.

Data File: 1CB22007.D

Date: 22-FEB-2013 13:11

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CB22007.D
Inj. Date and Time: 22-FEB-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

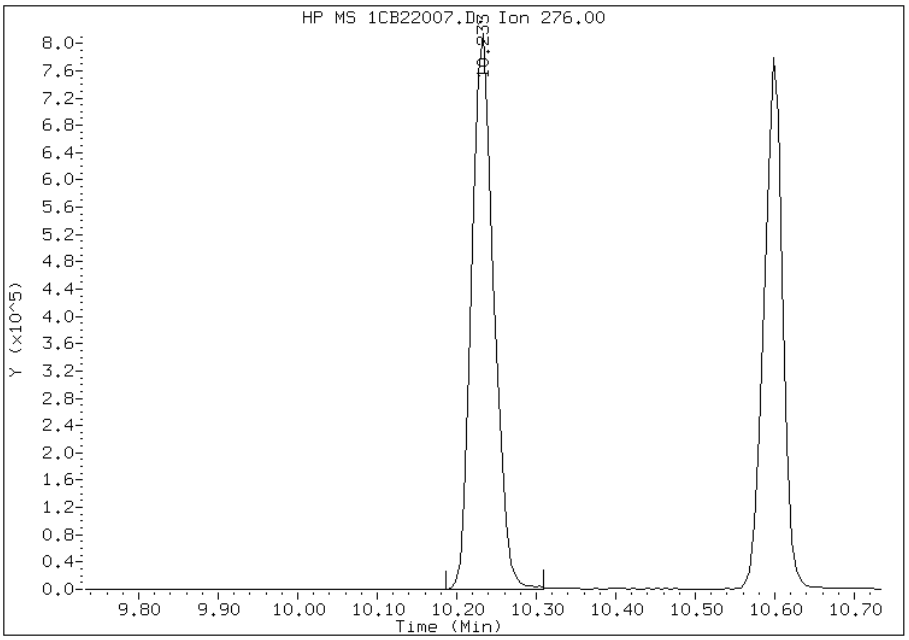
Processing Integration Results

RT: 10.23

Response: 1569498

Amount: 25

Conc: 25



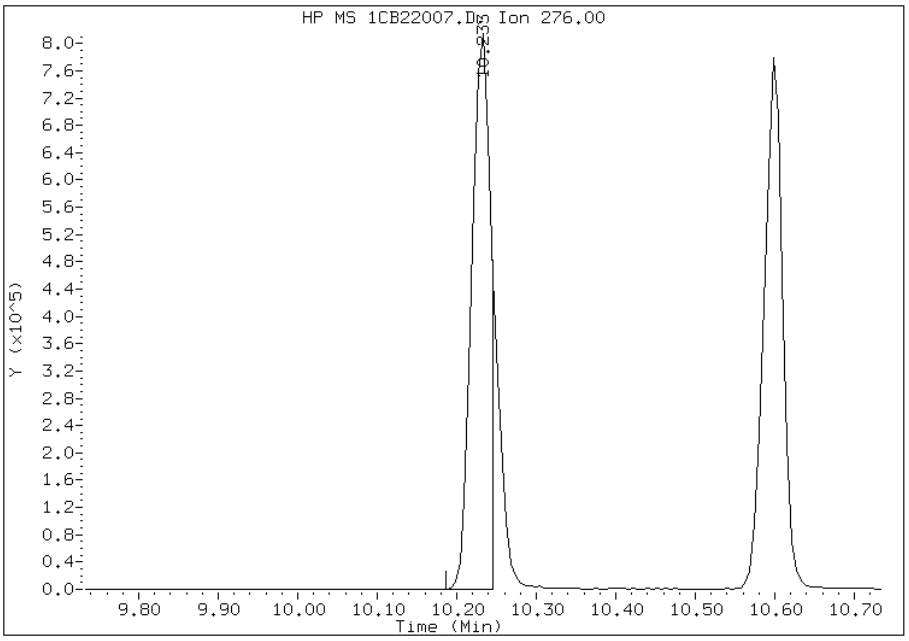
Manual Integration Results

RT: 10.23

Response: 1327322

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:11
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 13:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1245095	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	988838	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1864829	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	872937	30.0000	31.0038
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2477918	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2673716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	977462	30.0000	30.1550
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	647691	30.0000	29.9553
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	595177	30.0000	30.2237
5 Acenaphthylene	152	4.804	4.804	(0.982)	1208002	30.0000	30.3009
7 Acenaphthene	154	4.910	4.910	(1.004)	706037	30.0000	28.4928
9 Fluorene	166	5.233	5.233	(1.070)	961751	30.0000	30.6894
11 Phenanthrene	178	5.863	5.863	(1.003)	1575924	30.0000	29.2256
12 Anthracene	178	5.898	5.898	(1.009)	1605221	30.0000	30.4388
13 Carbazole	167	6.004	6.004	(1.027)	1379814	30.0000	29.4337
15 Fluoranthene	202	6.704	6.704	(1.147)	1826908	30.0000	30.9373
16 Pyrene	202	6.874	6.874	(0.882)	1978030	30.0000	29.7043
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	2005529	30.0000	28.0424
19 Chrysene	228	7.821	7.821	(1.003)	2071419	30.0000	28.9420
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	2159068	30.0000	30.8993
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	2175966	30.0000	30.3566
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	2128065	30.0000	31.3547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	1913283	30.0000	30.6363
26 Benzo(g,h,i)perylene	276	10.603	10.603	(1.176)	1999689	30.0000	29.9402

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22008.D

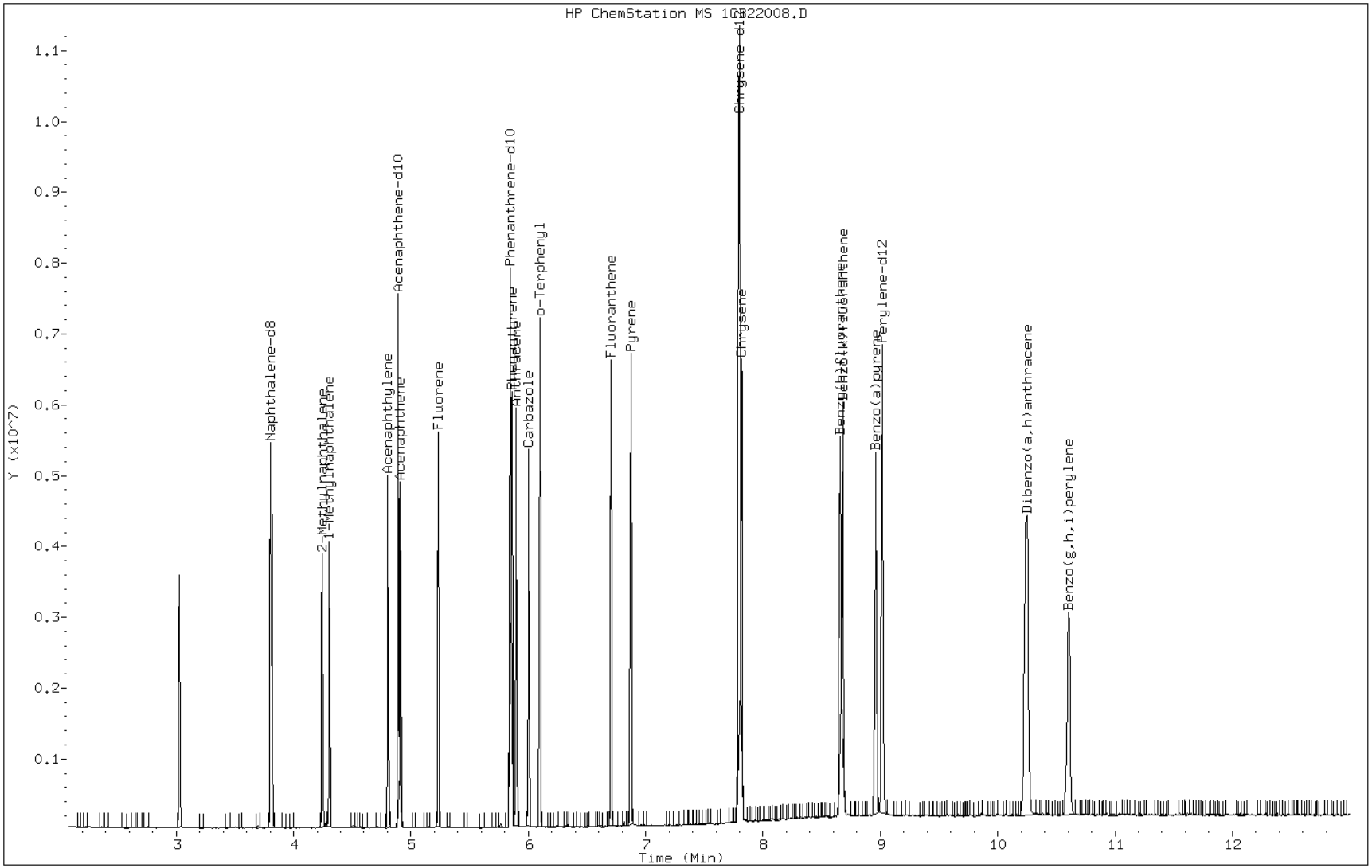
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC



Manual Integration Report

Data File: 1CB22008.D
Inj. Date and Time: 22-FEB-2013 13:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

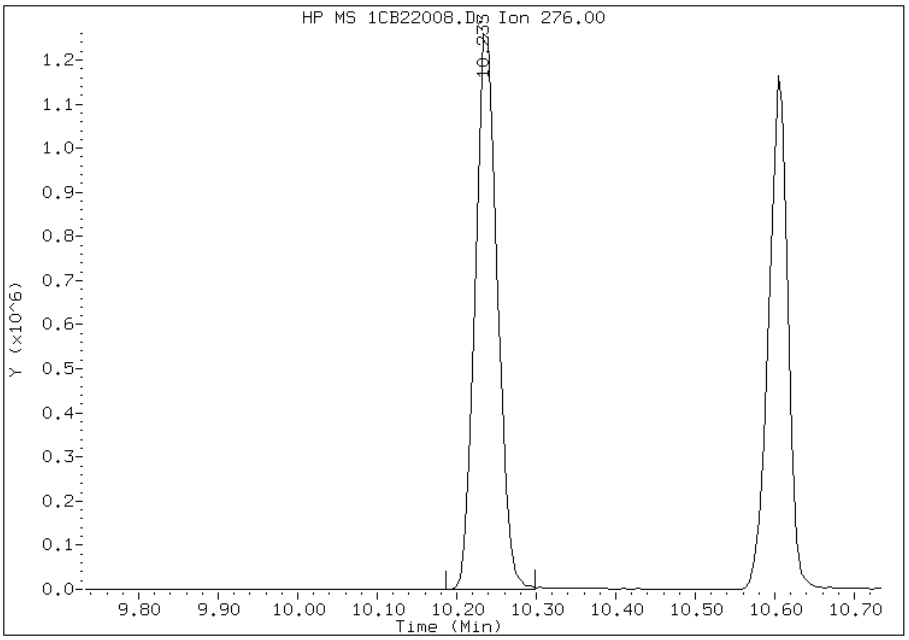
Processing Integration Results

RT: 10.23

Response: 2435528

Amount: 36

Conc: 36



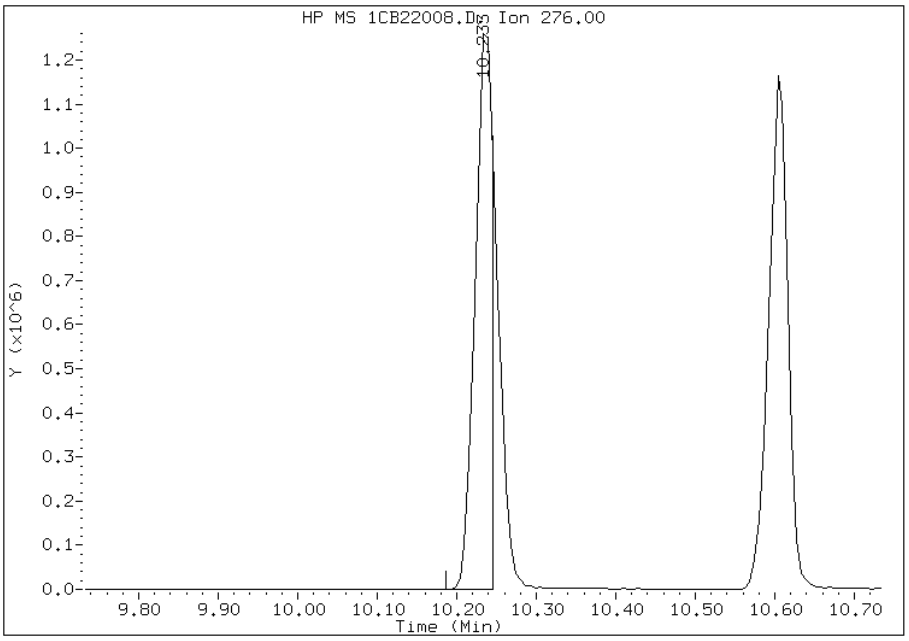
Manual Integration Results

RT: 10.23

Response: 1907725

Amount: 29

Conc: 29



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 13:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1341221	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1022497	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1952764	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	1512079	50.0000	51.2857(A)
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2476604	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2509650	40.0000	
2 Naphthalene	128	3.815	3.815	(1.003)	1788680	50.0000	51.2265(A)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	1170415	50.0000	50.2513(A)
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	1106965	50.0000	52.1840(A)
5 Acenaphthylene	152	4.804	4.804	(0.982)	2158422	50.0000	52.3585(A)
7 Acenaphthene	154	4.910	4.910	(1.004)	1241216	50.0000	48.4415
9 Fluorene	166	5.233	5.233	(1.070)	1689190	50.0000	52.1276(A)
11 Phenanthrene	178	5.862	5.862	(1.003)	2774518	50.0000	49.1366
12 Anthracene	178	5.898	5.898	(1.009)	2853457	50.0000	51.6717(A)
13 Carbazole	167	6.004	6.004	(1.027)	2470847	50.0000	50.3338(A)
15 Fluoranthene	202	6.704	6.704	(1.147)	3133704	50.0000	50.6773(A)
16 Pyrene	202	6.874	6.874	(0.882)	3458322	50.0000	51.9617(A)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	3342573	50.0000	46.7626
19 Chrysene	228	7.821	7.821	(1.003)	3423784	50.0000	47.8628
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	3419972	50.0000	52.1444(A)
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	3517880	50.0000	52.2859(A)
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	3380087	50.0000	53.0576(A)
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.239	(1.136)	3187834	50.0000	50.9008(AM)
25 Dibenzo(a,h)anthracene	278	10.256	10.256	(1.138)	2995648	50.0000	51.1034(A)
26 Benzo(g,h,i)perylene	276	10.609	10.609	(1.177)	3142464	50.0000	50.1261(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CB22009.D

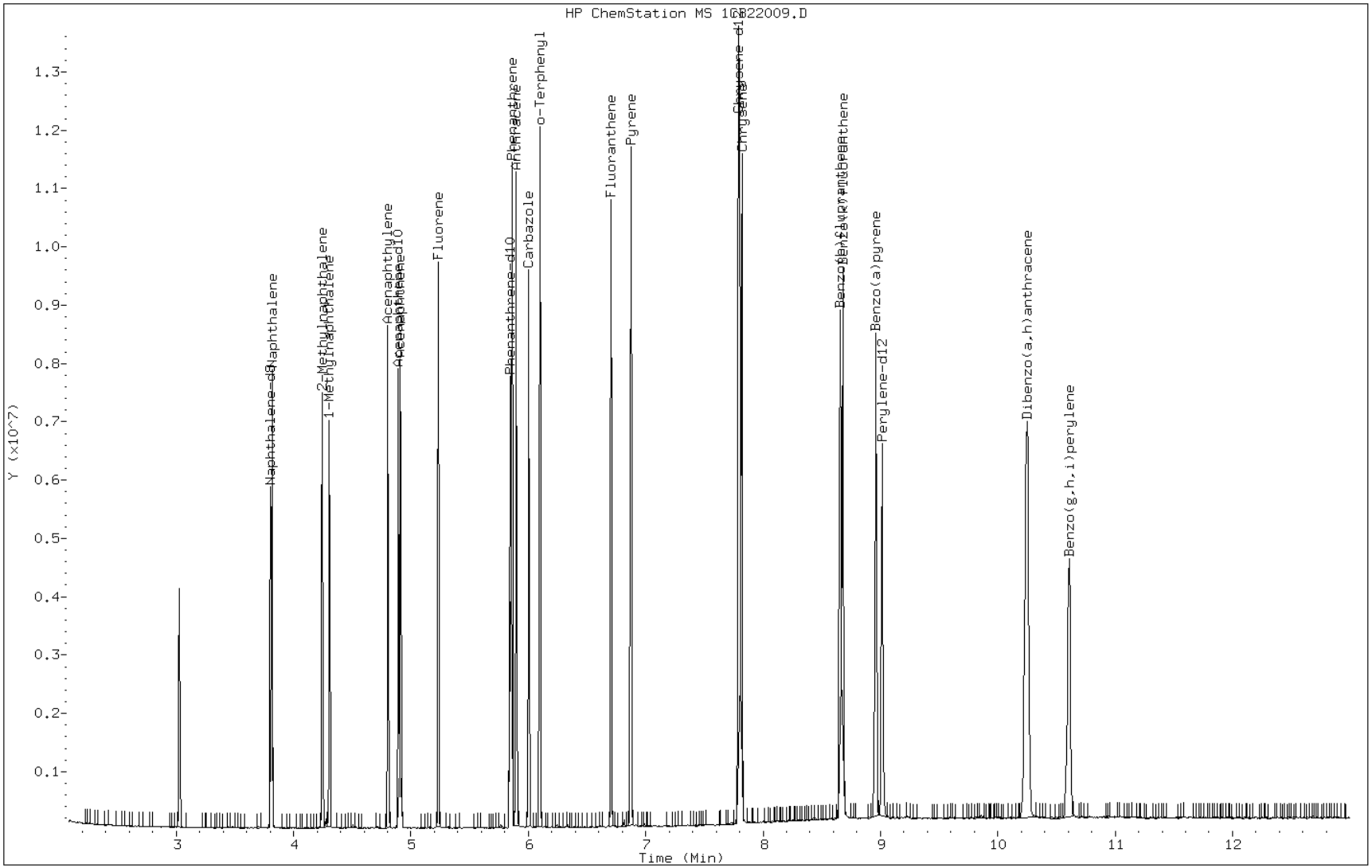
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC



Manual Integration Report

Data File: 1CB22009.D
Inj. Date and Time: 22-FEB-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

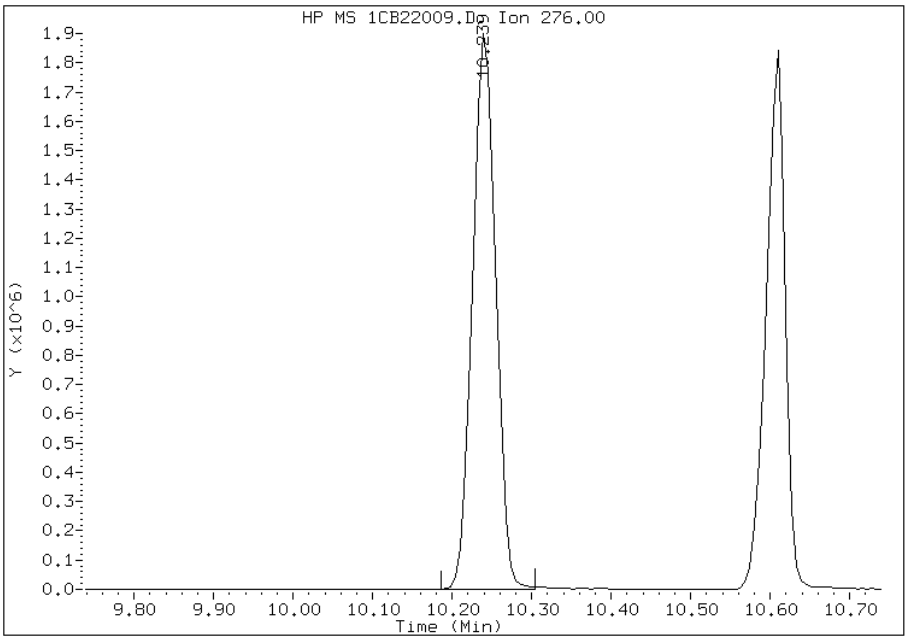
Processing Integration Results

RT: 10.24

Response: 3825990

Amount: 51

Conc: 51



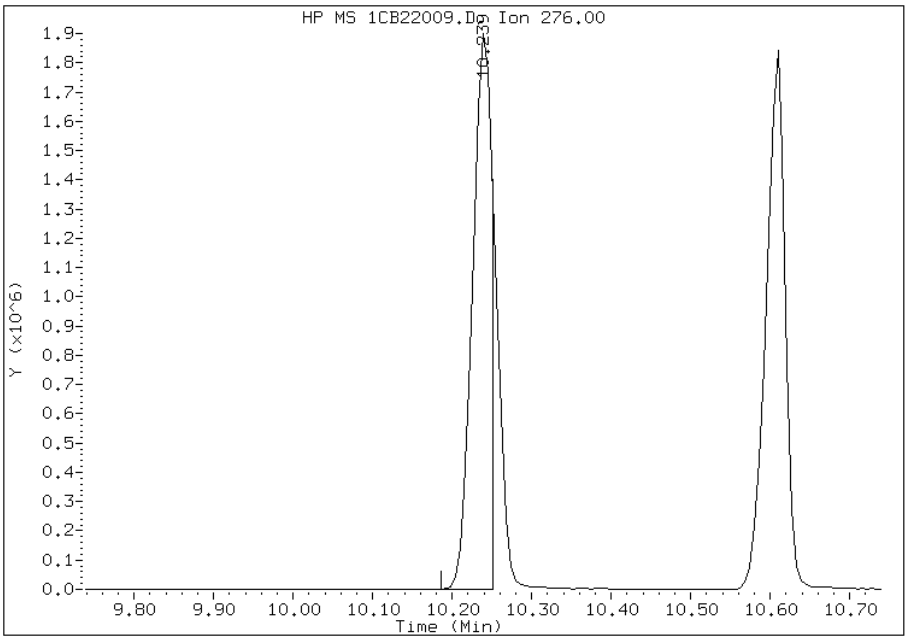
Manual Integration Results

RT: 10.24

Response: 3187834

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-2 Analy Batch No.: 134781

SDG No.: 68087545-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.1280 1.0523	1.0553 1.0405	1.0642	1.0918	1.0581	Ave		1.0700			0.0000	2.8		15.0			
2-Methylnaphthalene	0.7034 0.6669	0.6712 0.6728	0.6797	0.7002	0.6770	Ave		0.6816			0.0000	2.1		15.0			
1-Methylnaphthalene	0.6099 0.6325	0.6631 0.6258	0.6460	0.6514	0.6392	Ave		0.6383			0.0000	2.7		15.0			
Acenaphthylene	1.6661 1.7814	1.7639 1.7689	1.7448	1.8238	1.7955	Ave		1.7635			0.0000	2.8		15.0			
Acenaphthene	1.1402 1.0526	1.0845 1.0396	1.0477	1.1072	1.0550	Ave		1.0753			0.0000	3.5		15.0			
Fluorene	1.2209 1.2661	1.2731 1.2520	1.2478	1.2756	1.2585	Ave		1.2563			0.0000	1.5		15.0			
Phenanthrene	1.2165 1.1039	1.1314 1.0752	1.1449	1.1623	1.1141	Ave		1.1355			0.0000	4.0		15.0			
Anthracene	1.1088 1.1419	1.0967 1.1309	1.1548	1.1738	1.1455	Ave		1.1361			0.0000	2.3		15.0			
Carbazole	0.9989 1.0251	0.9725 1.0106	1.0326	1.0515	1.0179	Ave		1.0156			0.0000	2.5		15.0			
Fluoranthene	1.2255 1.1884	1.1239 1.1523	1.1976	1.2199	1.1869	Ave		1.1849			0.0000	3.0		15.0			
Pyrene	1.1729 1.2433	1.2578 1.2072	1.2525	1.2954	1.2562	Ave		1.2408			0.0000	3.2		15.0			
Benzo[a]anthracene	1.6058 1.1034	1.1616 1.0898	1.1024	1.1235	1.1016	LinF		1.0951			0.0000				0.9999		0.9900
Chrysene	1.1781 1.1047	1.1583 1.0841	1.1177	1.1544	1.1168	Ave		1.1306			0.0000	3.0		15.0			
Benzo[b]fluoranthene	0.9830 1.0461	1.0325 1.0528	1.0066	1.0593	1.0269	Ave		1.0296			0.0000	2.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-2 Analy Batch No.: 134781

SDG No.: 68087545-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0760 1.0603	1.0460 1.0472	1.1052	1.1212	1.0903	Ave		1.0780			0.0000	2.7		15.0			
Benzo[a]pyrene	0.9398 1.0484	0.9776 1.0366	1.0344	1.0539	1.0414	Ave		1.0189			0.0000	4.2		15.0			
Indeno[1,2,3-cd]pyrene	1.0120 1.1423	1.0104 1.1459	1.0416	1.1166	1.1424	Ave		1.0873			0.0000	5.8		15.0			
Dibenz(a,h)anthracene	0.9455 1.0206	0.9830 1.0192	1.0084	1.0295	1.0229	Ave		1.0042			0.0000	3.0		15.0			
Benzo[g,h,i]perylene	1.0182 1.0480	1.0153 1.0408	1.0329	1.0607	1.0410	Ave		1.0367			0.0000	1.6		15.0			
o-Terphenyl	0.6320 0.6161	0.6127 0.5977	0.6203	0.6323	0.6189	Ave		0.6186			0.0000	1.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-2 Analy Batch No.: 134781

SDG No.: 68087545-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	15953 2298963	74498 3699527	371017	777491	1508569	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	9948 1457082	47384 2392281	236964	498648	965225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8626 1381962	46812 2225072	225226	463905	911252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	14047 2298195	75049 3717778	364710	773248	1512937	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	9613 1357997	46142 2184846	218994	469400	889006	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10293 1633465	54168 2631357	260823	540812	1060484	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	16602 2324547	78922 3708574	386527	798454	1536701	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	15132 2404366	76501 3900989	389851	806411	1580088	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	13633 2158453	67837 3485796	348596	722383	1404089	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	16725 2502381	78399 3974777	404310	838075	1637186	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	16387 2630026	86802 4199944	429030	897242	1722041	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	22435 2334008	80159 3791270	377597	778182	1510209	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	16460 2336752	79936 3771462	382861	799570	1531008	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	14372 2331940	74603 3853307	359912	772745	1490545	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	15732 2363523	75578 3832862	395166	817887	1582576	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-2 Analy Batch No.: 134781

SDG No.: 68087545-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	13740 2336988	70635 3794269	369863	768774	1511646	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	14796 2546397	73004 4194422	372428	814504	1658275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13824 2275035	71027 3730665	360565	750999	1484721	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14886 2336152	73360 3809441	369321	773773	1511031	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	8625 1297334	42735 2061660	209410	434393	853642	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 12:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2828471	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1686180	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2729489	40.0000	
$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	8625	0.20000	0.20
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2794246	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2924062	40.0000	
2 Naphthalene	128	6.201	6.201	(1.003)	15953	0.20000	0.21
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	9948	0.20000	0.21
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	8626	0.20000	0.19
5 Acenaphthylene	152	7.723	7.723	(0.983)	14047	0.20000	0.19
7 Acenaphthene	154	7.882	7.882	(1.003)	9613	0.20000	0.21
8 Fluorene	166	8.322	8.322	(1.059)	10293	0.20000	0.19
10 Phenanthrene	178	9.127	9.127	(1.001)	16602	0.20000	0.21
11 Anthracene	178	9.168	9.168	(1.006)	15132	0.20000	0.20
12 Carbazole	167	9.303	9.303	(1.021)	13633	0.20000	0.20
14 Fluoranthene	202	10.114	10.114	(1.110)	16725	0.20000	0.21
15 Pyrene	202	10.302	10.302	(0.899)	16387	0.20000	0.19
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	22435	0.20000	0.27
18 Chrysene	228	11.477	11.477	(1.002)	16460	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.764	12.764	(0.957)	14372	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.799	12.799	(0.960)	15732	0.20000	0.20
21 Benzo(a)pyrene	252	13.222	13.222	(0.992)	13740	0.20000	0.18
23 Indeno(1,2,3-cd)pyrene	276	14.932	14.932	(1.120)	14796	0.20000	0.19(H)
24 Dibenzo(a,h)anthracene	278	14.967	14.967	(1.122)	13824	0.20000	0.19(MH)
25 Benzo(g,h,i)perylene	276	15.379	15.379	(1.153)	14886	0.20000	0.20(MH)

QC Flag Legend

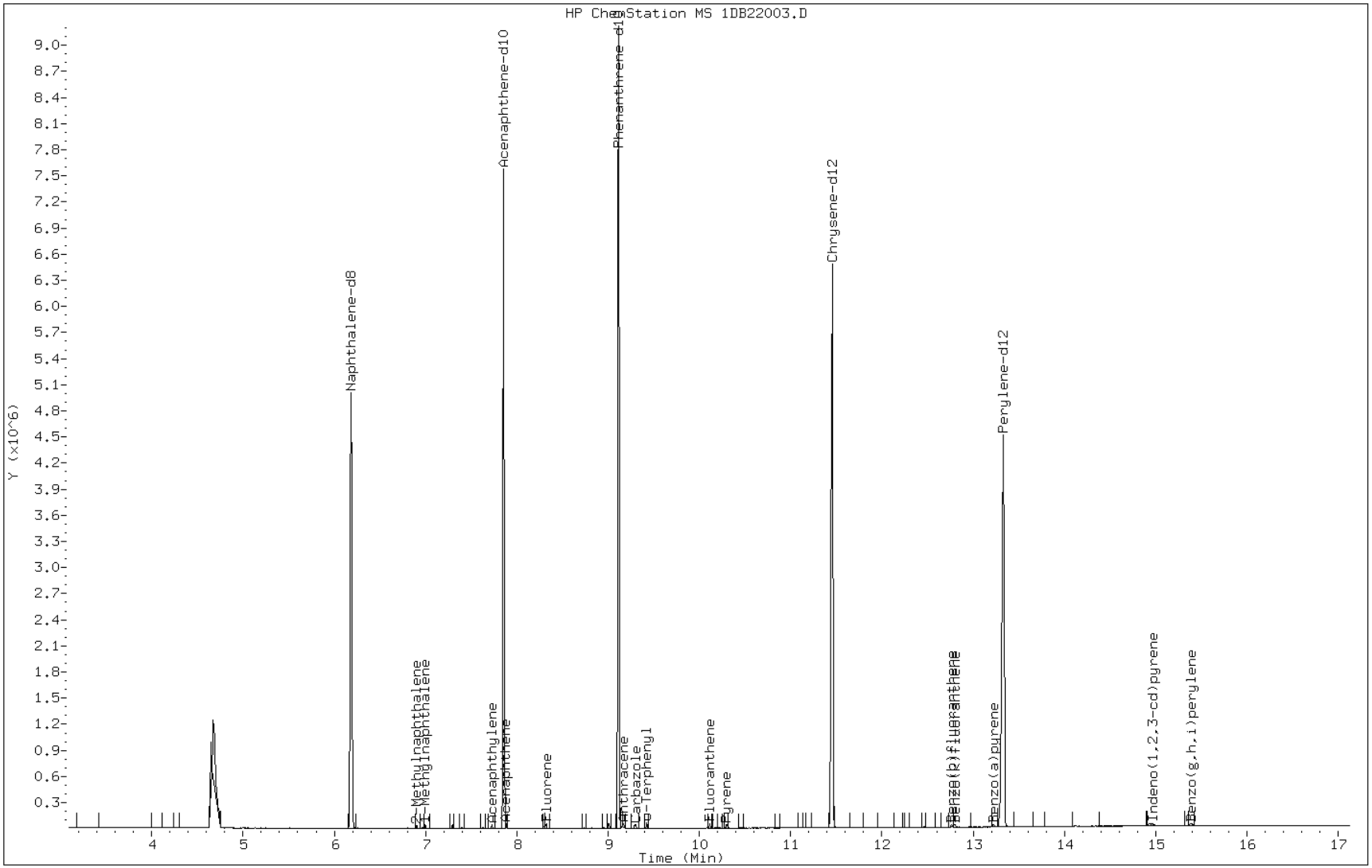
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22003.D

Date: 22-FEB-2013 12:13

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/22/2013

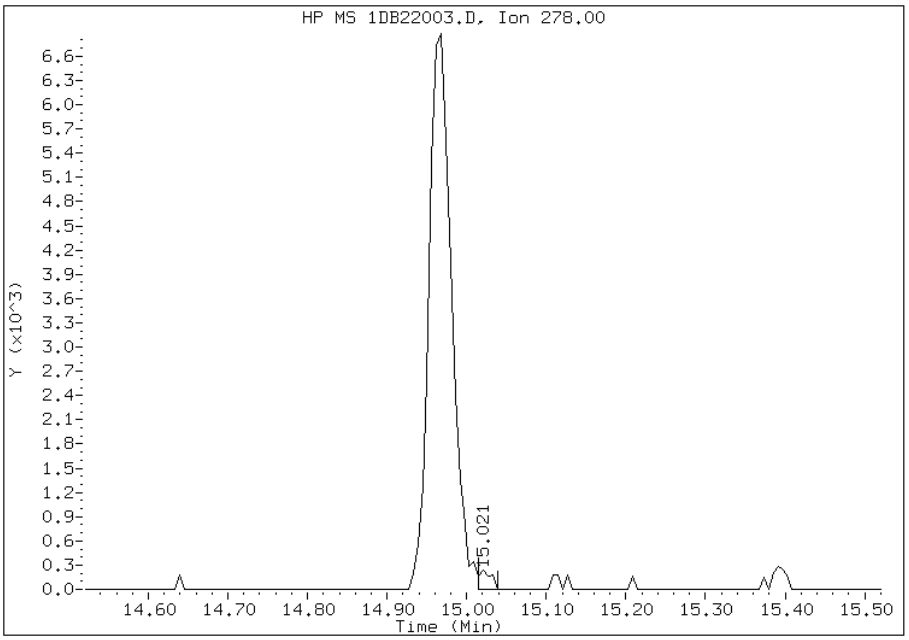
Processing Integration Results

RT: 15.02

Response: 262

Amount: 0

Conc: 0



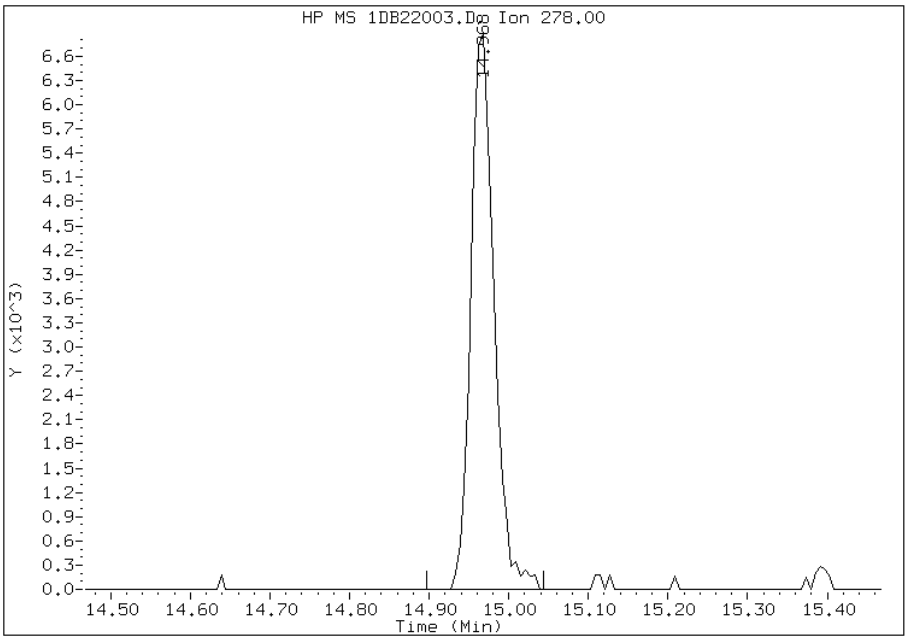
Manual Integration Results

RT: 14.97

Response: 13824

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/22/2013

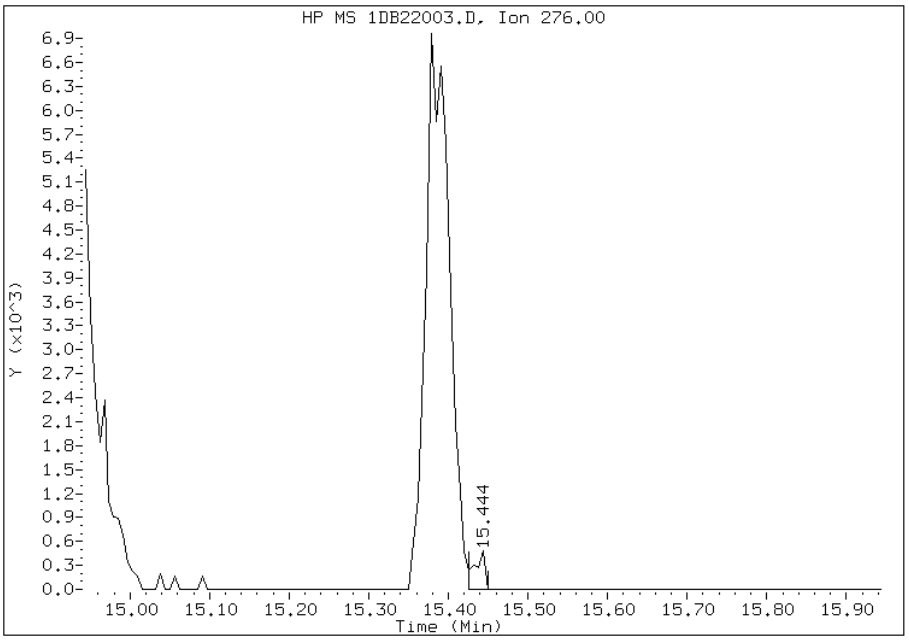
Processing Integration Results

RT: 15.44

Response: 456

Amount: 0

Conc: 0



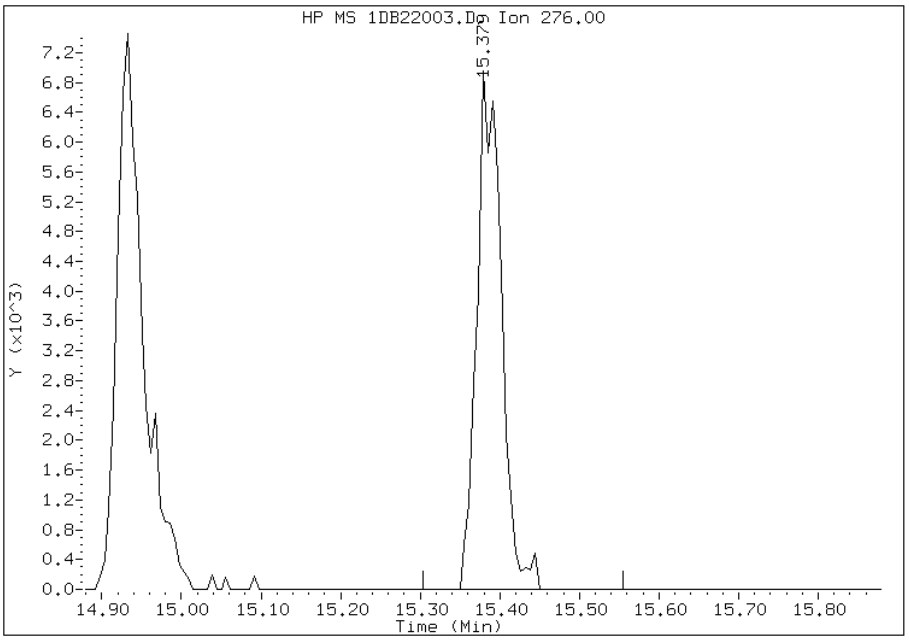
Manual Integration Results

RT: 15.38

Response: 14886

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:35
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:13 Cal File: 1DB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.186	6.186	(1.000)	2823768	40.0000	
* 6 Acenaphthene-d10	164	7.854	7.854	(1.000)	1701879	40.0000	
* 9 Phenanthrene-d10	188	9.112	9.112	(1.000)	2790130	40.0000	
$ 13 o-Terphenyl	230	9.423	9.423	(1.034)	42735	1.00000	0.99
* 17 Chrysene-d12	240	11.456	11.456	(1.000)	2760384	40.0000	
* 22 Perylene-d12	264	13.330	13.330	(1.000)	2890207	40.0000	
2 Naphthalene	128	6.203	6.203	(1.003)	74498	1.00000	0.99
3 2-Methylnaphthalene	142	6.902	6.902	(1.116)	47384	1.00000	0.98
4 1-Methylnaphthalene	142	6.997	6.997	(1.131)	46812	1.00000	1.0
5 Acenaphthylene	152	7.725	7.725	(0.984)	75049	1.00000	1.0
7 Acenaphthene	154	7.878	7.878	(1.003)	46142	1.00000	1.0
8 Fluorene	166	8.318	8.318	(1.059)	54168	1.00000	1.0
10 Phenanthrene	178	9.129	9.129	(1.002)	78922	1.00000	1.00
11 Anthracene	178	9.170	9.170	(1.006)	76501	1.00000	0.96
12 Carbazole	167	9.306	9.306	(1.021)	67837	1.00000	0.96
14 Fluoranthene	202	10.111	10.111	(1.110)	78399	1.00000	0.95
15 Pyrene	202	10.299	10.299	(0.899)	86802	1.00000	1.0
16 Benzo(a)anthracene	228	11.432	11.432	(0.998)	80159	1.00000	0.98
18 Chrysene	228	11.474	11.474	(1.002)	79936	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.760	12.760	(0.957)	74603	1.00000	1.0
20 Benzo(k)fluoranthene	252	12.796	12.796	(0.960)	75578	1.00000	0.97
21 Benzo(a)pyrene	252	13.219	13.219	(0.992)	70635	1.00000	0.96
23 Indeno(1,2,3-cd)pyrene	276	14.934	14.934	(1.120)	73004	1.00000	0.93(M)
24 Dibenzo(a,h)anthracene	278	14.964	14.964	(1.123)	71027	1.00000	0.98(H)
25 Benzo(g,h,i)perylene	276	15.381	15.381	(1.154)	73360	1.00000	0.98(H)

QC Flag Legend

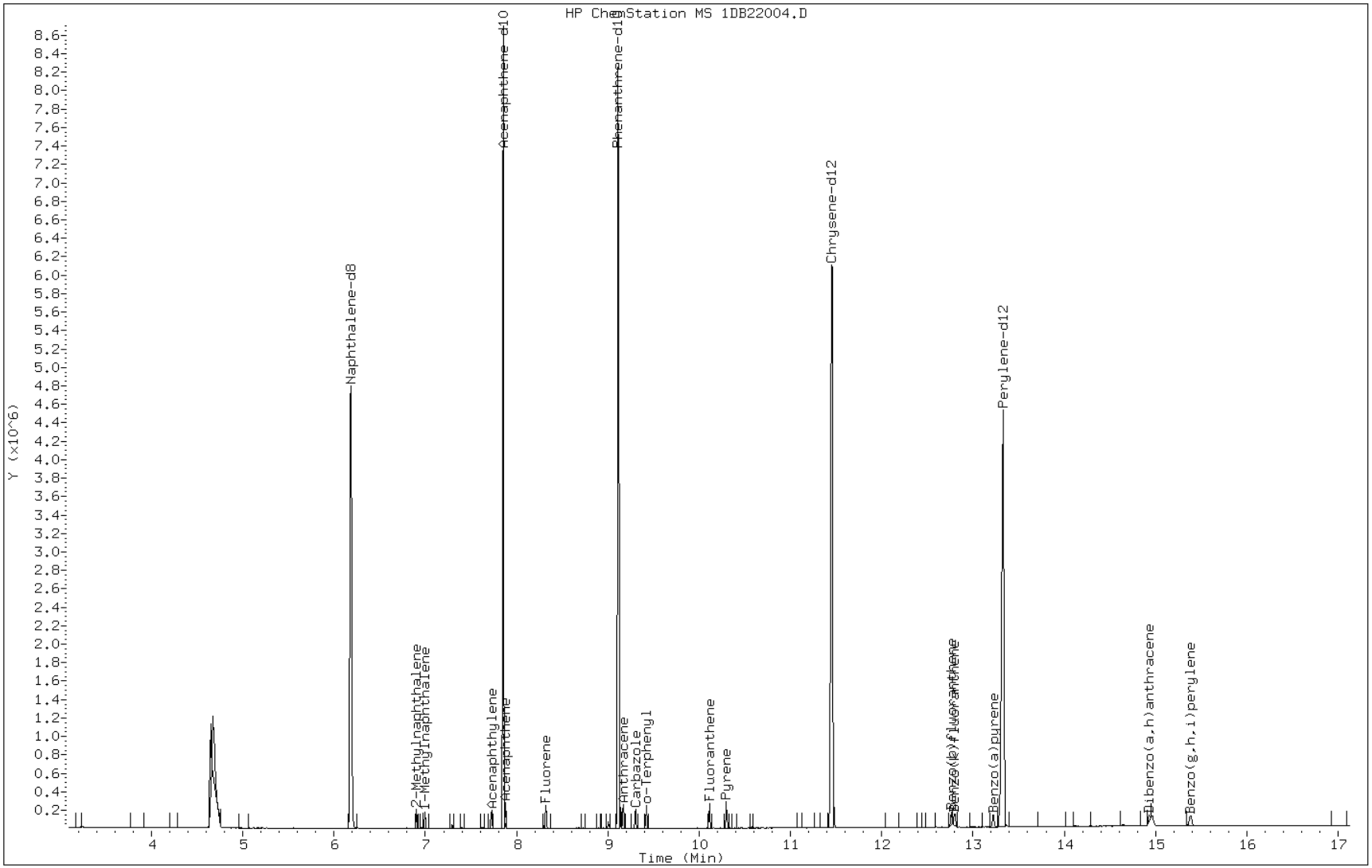
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22004.D

Date: 22-FEB-2013 12:35

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512359 Operator: SCC



Manual Integration Report

Data File: 1DB22004.D
Inj. Date and Time: 22-FEB-2013 12:35
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

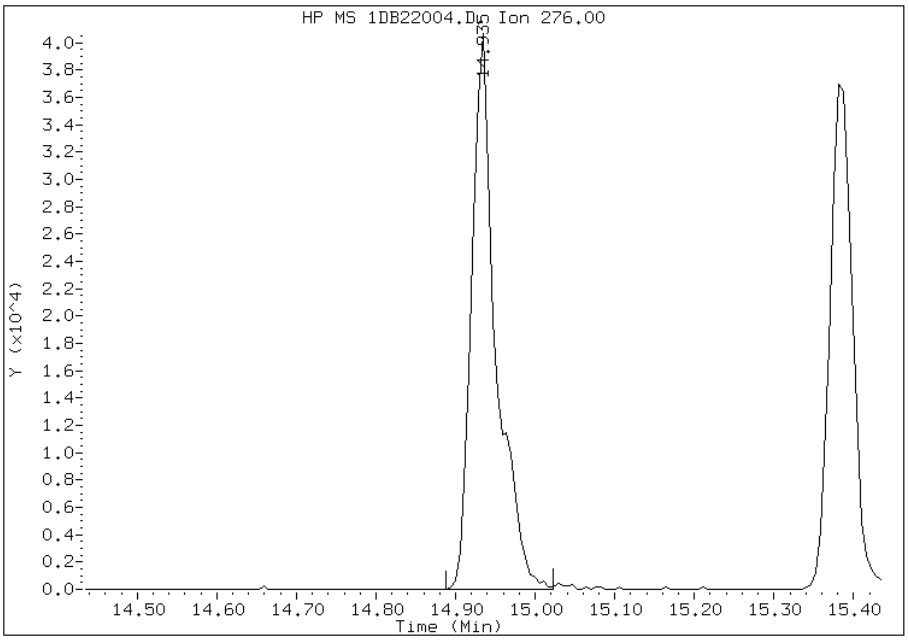
Processing Integration Results

RT: 14.93

Response: 86267

Amount: 1

Conc: 1



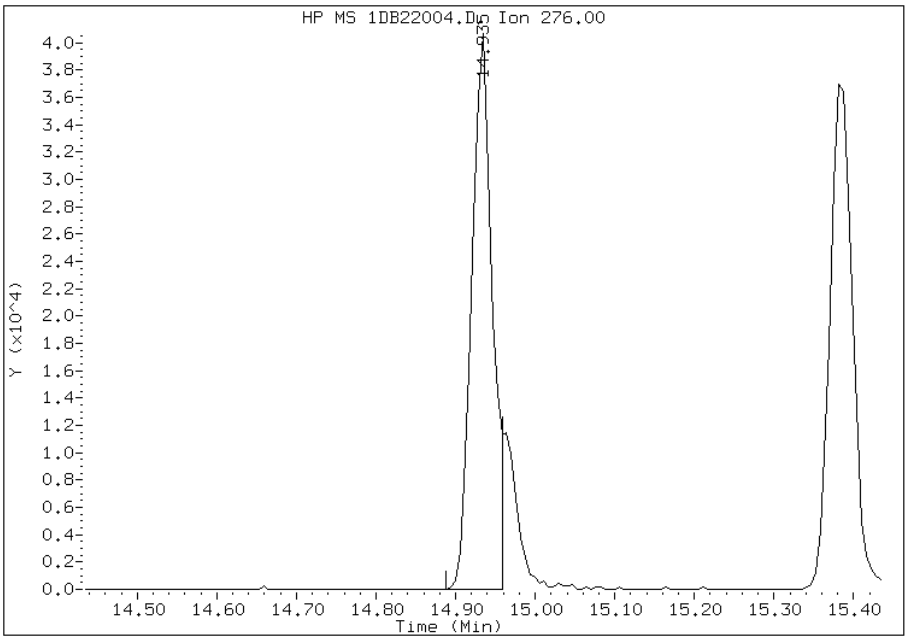
Manual Integration Results

RT: 14.93

Response: 73004

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:58
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:35 Cal File: 1DB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2789095	40.0000	
* 6 Acenaphthene-d10	164	7.853	7.853	(1.000)	1672170	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.116	(1.000)	2700824	40.0000	
$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	209410	5.00000	5.0
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2740282	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2860502	40.0000	
2 Naphthalene	128	6.202	6.202	(1.003)	371017	5.00000	5.0
3 2-Methylnaphthalene	142	6.901	6.901	(1.116)	236964	5.00000	5.0
4 1-Methylnaphthalene	142	6.995	6.995	(1.131)	225226	5.00000	5.1
5 Acenaphthylene	152	7.723	7.723	(0.984)	364710	5.00000	4.9
7 Acenaphthene	154	7.876	7.876	(1.003)	218994	5.00000	4.9
8 Fluorene	166	8.323	8.323	(1.060)	260823	5.00000	5.0
10 Phenanthrene	178	9.134	9.134	(1.002)	386527	5.00000	5.0
11 Anthracene	178	9.169	9.169	(1.006)	389851	5.00000	5.1
12 Carbazole	167	9.304	9.304	(1.021)	348596	5.00000	5.1
14 Fluoranthene	202	10.115	10.115	(1.110)	404310	5.00000	5.0
15 Pyrene	202	10.303	10.303	(0.899)	429030	5.00000	5.0
16 Benzo(a)anthracene	228	11.437	11.437	(0.998)	377597	5.00000	4.6
18 Chrysene	228	11.478	11.478	(1.002)	382861	5.00000	4.9
19 Benzo(b)fluoranthene	252	12.765	12.765	(0.957)	359912	5.00000	4.9
20 Benzo(k)fluoranthene	252	12.806	12.806	(0.960)	395166	5.00000	5.1
21 Benzo(a)pyrene	252	13.229	13.229	(0.992)	369863	5.00000	5.1
23 Indeno(1,2,3-cd)pyrene	276	14.938	14.938	(1.120)	372428	5.00000	4.8(M)
24 Dibenzo(a,h)anthracene	278	14.974	14.974	(1.123)	360565	5.00000	5.0(H)
25 Benzo(g,h,i)perylene	276	15.391	15.391	(1.154)	369321	5.00000	5.0(H)

QC Flag Legend

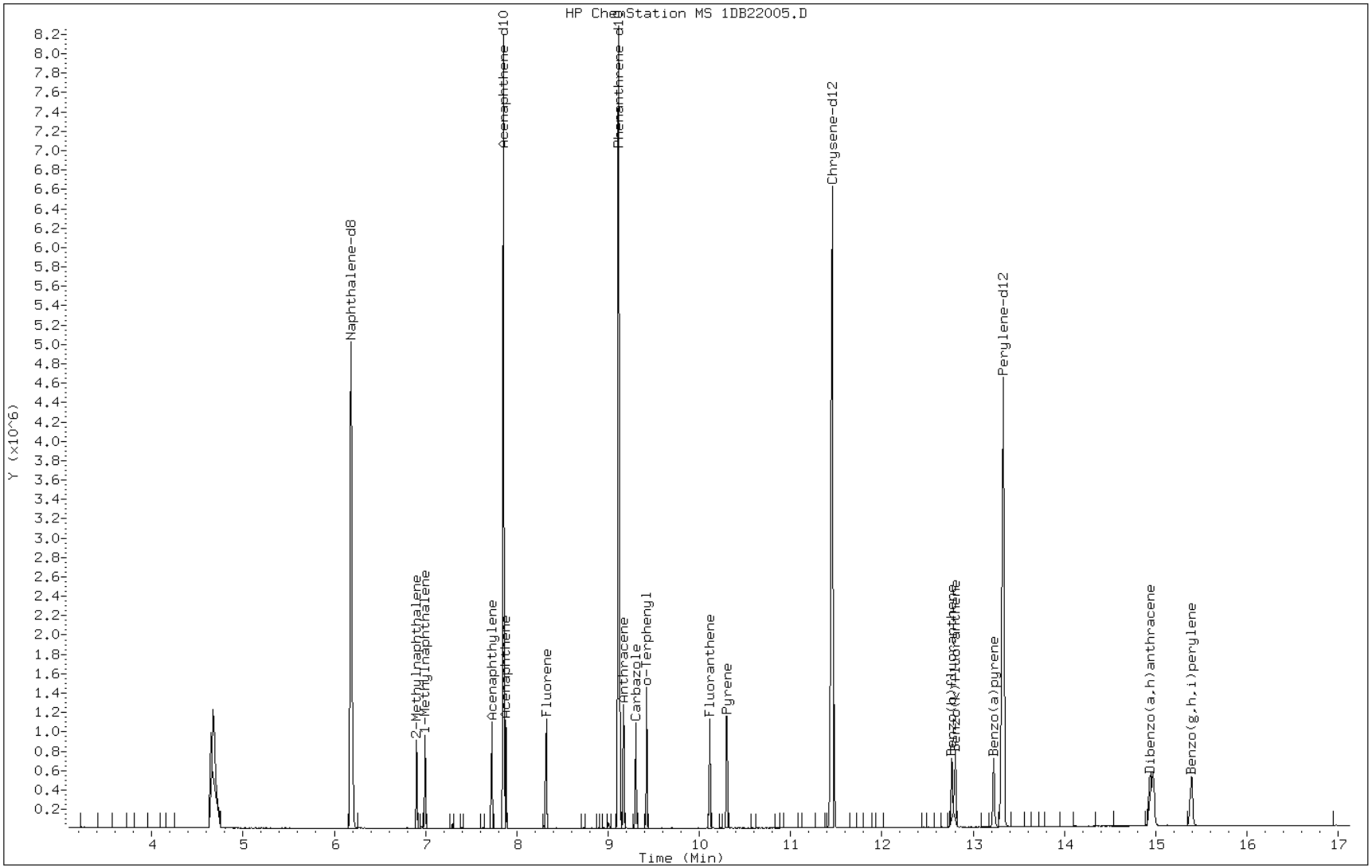
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22005.D

Date: 22-FEB-2013 12:58

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

Data File: 1DB22005.D
Inj. Date and Time: 22-FEB-2013 12:58
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

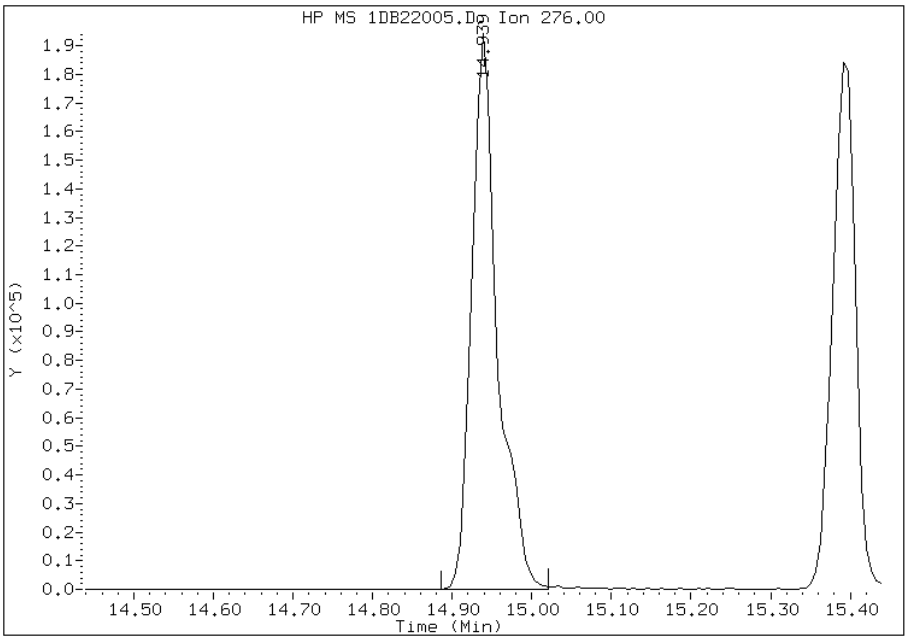
Processing Integration Results

RT: 14.94

Response: 437022

Amount: 5

Conc: 5



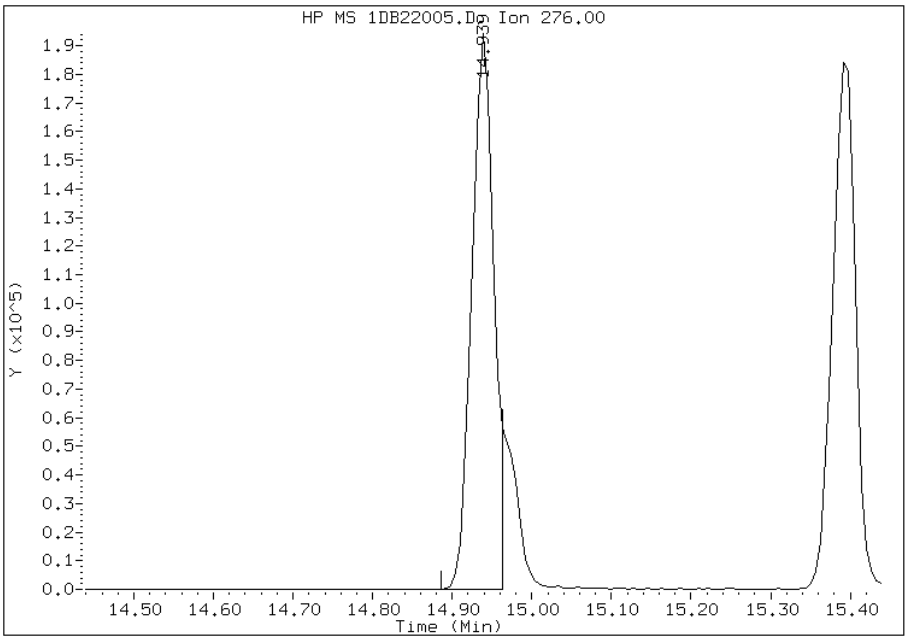
Manual Integration Results

RT: 14.94

Response: 372428

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 13:21
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512361
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:58 Cal File: 1DB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2848559	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1695869	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2747931	40.0000	
$ 13 o-Terphenyl	230	9.420	9.420	(1.034)	434393	10.0000	10
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2770572	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2917915	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	777491	10.0000	10
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	498648	10.0000	10
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	463905	10.0000	10
5 Acenaphthylene	152	7.728	7.728	(0.984)	773248	10.0000	10
7 Acenaphthene	154	7.881	7.881	(1.003)	469400	10.0000	10
8 Fluorene	166	8.322	8.322	(1.059)	540812	10.0000	10
10 Phenanthrene	178	9.132	9.132	(1.002)	798454	10.0000	10
11 Anthracene	178	9.174	9.174	(1.006)	806411	10.0000	10
12 Carbazole	167	9.309	9.309	(1.021)	722383	10.0000	10
14 Fluoranthene	202	10.114	10.114	(1.110)	838075	10.0000	10
15 Pyrene	202	10.302	10.302	(0.899)	897242	10.0000	10
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	778182	10.0000	9.5
18 Chrysene	228	11.477	11.477	(1.002)	799570	10.0000	10
19 Benzo(b)fluoranthene	252	12.769	12.769	(0.958)	772745	10.0000	10
20 Benzo(k)fluoranthene	252	12.811	12.811	(0.961)	817887	10.0000	10
21 Benzo(a)pyrene	252	13.228	13.228	(0.992)	768774	10.0000	10
23 Indeno(1,2,3-cd)pyrene	276	14.943	14.943	(1.121)	814504	10.0000	10(M)
24 Dibenzo(a,h)anthracene	278	14.979	14.979	(1.123)	750999	10.0000	10(H)
25 Benzo(g,h,i)perylene	276	15.407	15.407	(1.156)	773773	10.0000	10(H)

QC Flag Legend

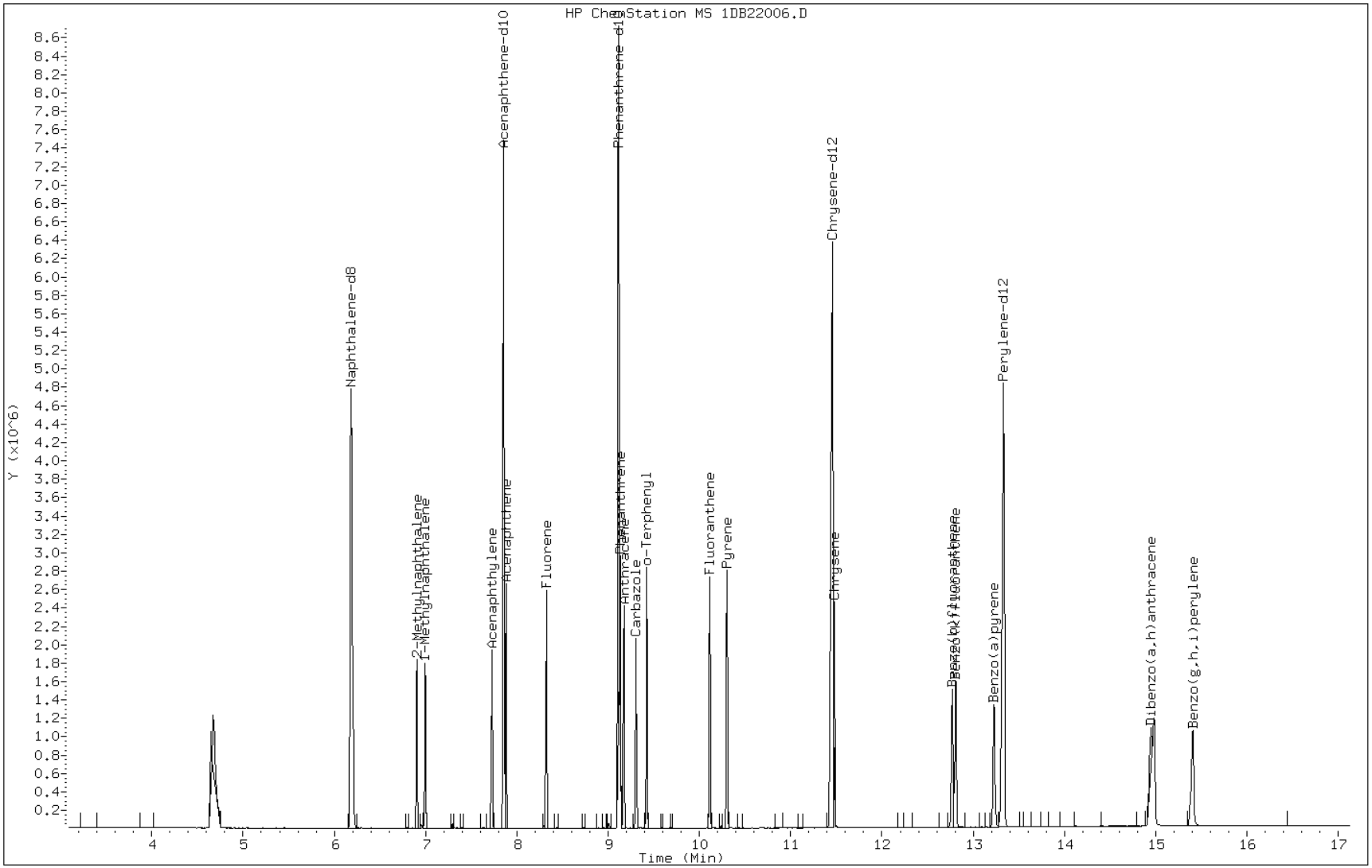
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22006.D

Date: 22-FEB-2013 13:21

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512361 Operator: SCC



Manual Integration Report

Data File: 1DB22006.D
Inj. Date and Time: 22-FEB-2013 13:21
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

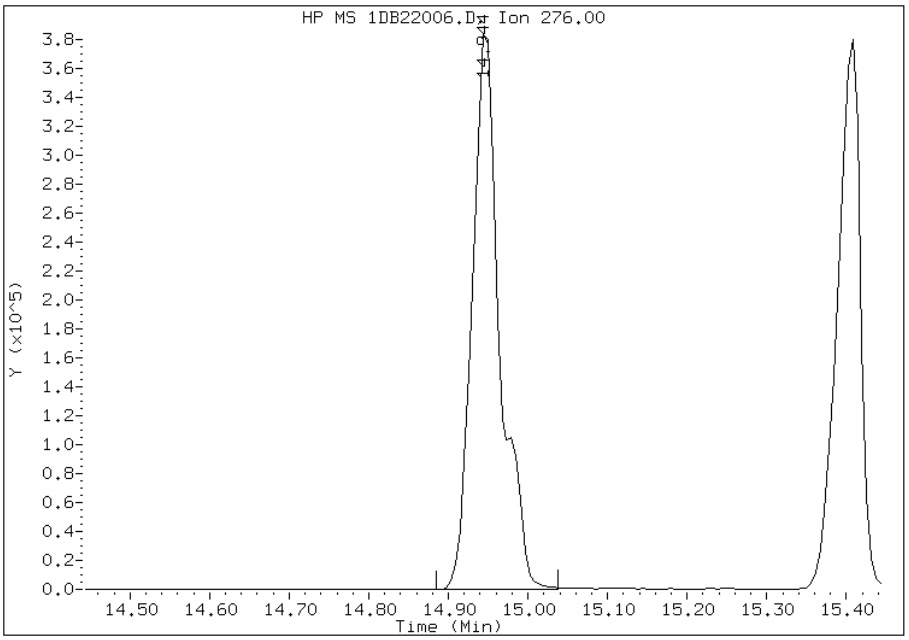
Processing Integration Results

RT: 14.94

Response: 923395

Amount: 11

Conc: 11



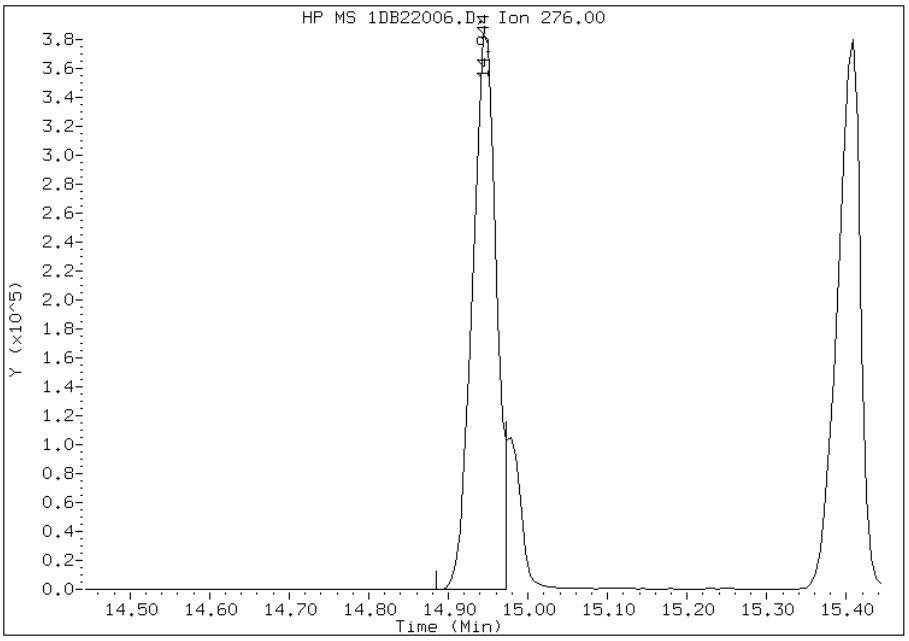
Manual Integration Results

RT: 14.94

Response: 814504

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:59
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1512372
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:21 Cal File: 1DB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

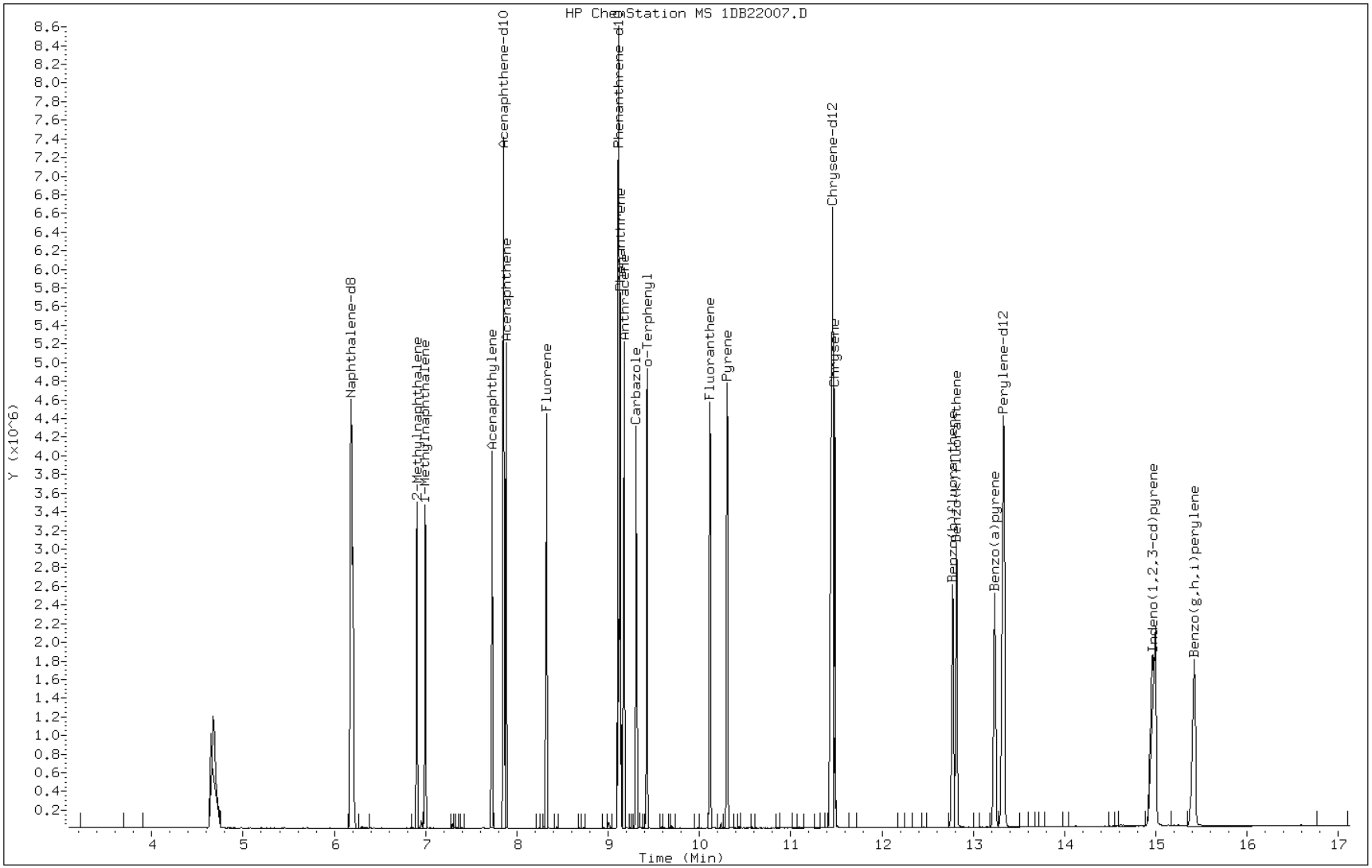
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000	
* 6 Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000	
$ 13 o-Terphenyl	230	9.426	9.426	(1.034)	853642	20.0000	20
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2741766	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2903096	40.0000	
2 Naphthalene	128	6.206	6.206	(1.004)	1508569	20.0000	20
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	965225	20.0000	20
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	911252	20.0000	20
5 Acenaphthylene	152	7.728	7.728	(0.984)	1512937	20.0000	20
7 Acenaphthene	154	7.881	7.881	(1.003)	889006	20.0000	20
8 Fluorene	166	8.321	8.321	(1.059)	1060484	20.0000	20
10 Phenanthrene	178	9.132	9.132	(1.002)	1536701	20.0000	20
11 Anthracene	178	9.173	9.173	(1.006)	1580088	20.0000	20
12 Carbazole	167	9.309	9.309	(1.021)	1404089	20.0000	20
14 Fluoranthene	202	10.114	10.114	(1.110)	1637186	20.0000	20
15 Pyrene	202	10.302	10.302	(0.899)	1722041	20.0000	20
16 Benzo(a)anthracene	228	11.435	11.435	(0.998)	1510209	20.0000	19
18 Chrysene	228	11.482	11.482	(1.002)	1531008	20.0000	20
19 Benzo(b)fluoranthene	252	12.775	12.775	(0.958)	1490545	20.0000	20
20 Benzo(k)fluoranthene	252	12.816	12.816	(0.961)	1582576	20.0000	20
21 Benzo(a)pyrene	252	13.239	13.239	(0.993)	1511646	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.961	14.961	(1.122)	1658275	20.0000	21
24 Dibenzo(a,h)anthracene	278	14.996	14.996	(1.125)	1484721	20.0000	20
25 Benzo(g,h,i)perylene	276	15.425	15.425	(1.157)	1511031	20.0000	20

Data File: 1DB22007.D

Date: 22-FEB-2013 13:43

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1512372 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 14:06
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:43 Cal File: 1DB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2913003	40.0000	
* 6 Acenaphthene-d10	164	7.852	7.852	(1.000)	1720184	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2807552	40.0000	
$ 13 o-Terphenyl	230	9.427	9.427	(1.034)	1297334	30.0000	30
* 17 Chrysene-d12	240	11.460	11.460	(1.000)	2820426	40.0000	
* 22 Perylene-d12	264	13.340	13.340	(1.000)	2972128	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	2298963	30.0000	30
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	1457082	30.0000	29
4 1-Methylnaphthalene	142	7.000	7.000	(1.132)	1381962	30.0000	30
5 Acenaphthylene	152	7.729	7.729	(0.984)	2298195	30.0000	30
7 Acenaphthene	154	7.881	7.881	(1.004)	1357997	30.0000	29
8 Fluorene	166	8.328	8.328	(1.061)	1633465	30.0000	30
10 Phenanthrene	178	9.133	9.133	(1.002)	2324547	30.0000	29
11 Anthracene	178	9.174	9.174	(1.006)	2404366	30.0000	30
12 Carbazole	167	9.309	9.309	(1.021)	2158453	30.0000	30
14 Fluoranthene	202	10.120	10.120	(1.110)	2502381	30.0000	30
15 Pyrene	202	10.308	10.308	(0.900)	2630026	30.0000	30
16 Benzo(a)anthracene	228	11.442	11.442	(0.998)	2334008	30.0000	28
18 Chrysene	228	11.489	11.489	(1.003)	2336752	30.0000	29
19 Benzo(b)fluoranthene	252	12.781	12.781	(0.958)	2331940	30.0000	30
20 Benzo(k)fluoranthene	252	12.828	12.828	(0.962)	2363523	30.0000	30
21 Benzo(a)pyrene	252	13.246	13.246	(0.993)	2336988	30.0000	31
23 Indeno(1,2,3-cd)pyrene	276	14.973	14.973	(1.122)	2546397	30.0000	32
24 Dibenzo(a,h)anthracene	278	15.008	15.008	(1.125)	2275035	30.0000	30(H)
25 Benzo(g,h,i)perylene	276	15.443	15.443	(1.158)	2336152	30.0000	30(H)

QC Flag Legend

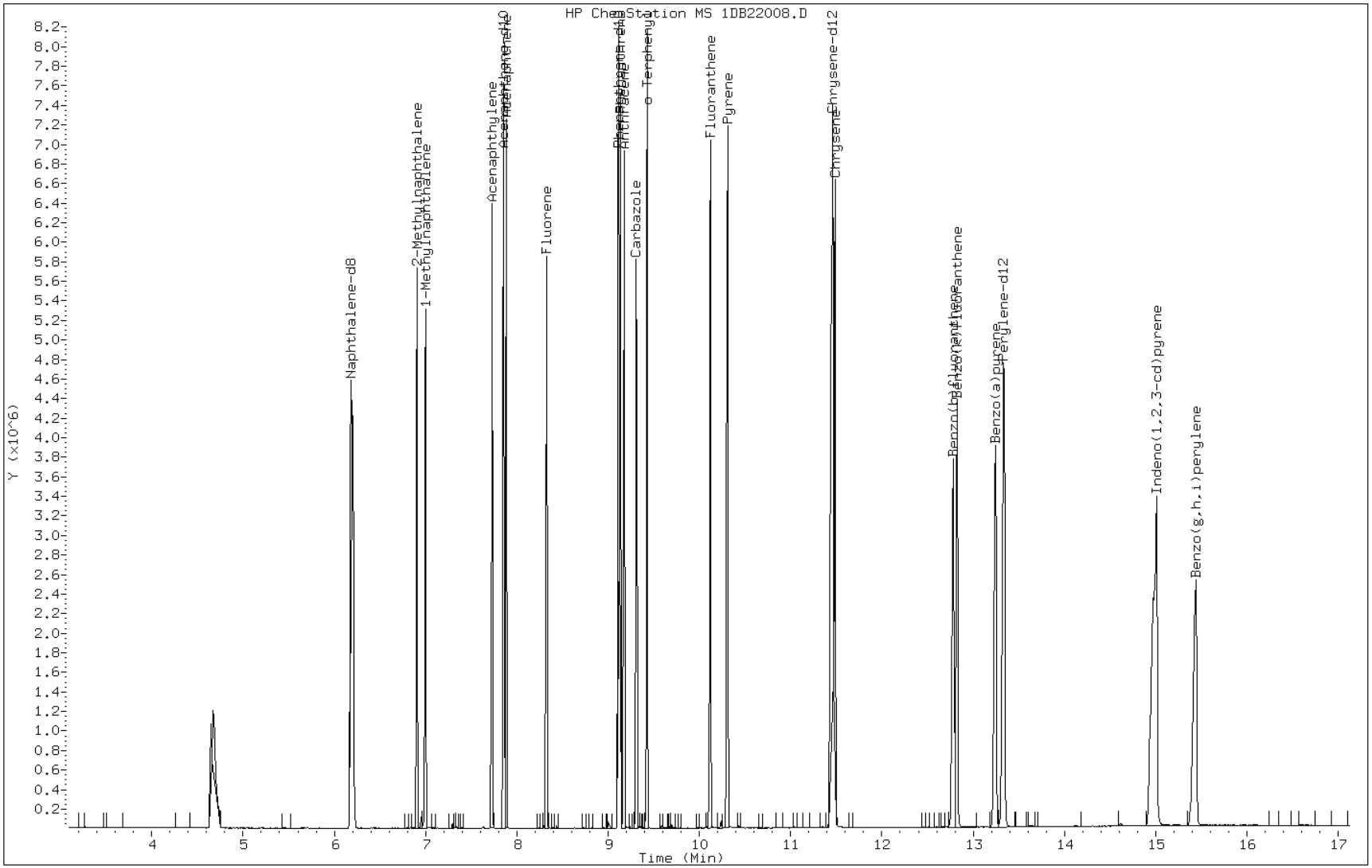
H - Operator selected an alternate compound hit.

Data File: 1DB22008.D

Date: 22-FEB-2013 14:06

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512373 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 14:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:06 Cal File: 1DB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.187	6.187	(1.000)	2844424	40.0000	
* 6 Acenaphthene-d10	164	7.856	7.856	(1.000)	1681359	40.0000	
* 9 Phenanthrene-d10	188	9.113	9.113	(1.000)	2759479	40.0000	
$ 13 o-Terphenyl	230	9.430	9.430	(1.035)	2061660	50.0000	48
* 17 Chrysene-d12	240	11.463	11.463	(1.000)	2783202	40.0000	
* 22 Perylene-d12	264	13.344	13.344	(1.000)	2928183	40.0000	
2 Naphthalene	128	6.205	6.205	(1.003)	3699527	50.0000	49
3 2-Methylnaphthalene	142	6.910	6.910	(1.117)	2392281	50.0000	49
4 1-Methylnaphthalene	142	6.998	6.998	(1.131)	2225072	50.0000	49
5 Acenaphthylene	152	7.732	7.732	(0.984)	3717778	50.0000	50(A)
7 Acenaphthene	154	7.885	7.885	(1.004)	2184846	50.0000	48
8 Fluorene	166	8.326	8.326	(1.060)	2631357	50.0000	50
10 Phenanthrene	178	9.137	9.137	(1.003)	3708574	50.0000	47
11 Anthracene	178	9.184	9.184	(1.008)	3900989	50.0000	50
12 Carbazole	167	9.313	9.313	(1.022)	3485796	50.0000	50
14 Fluoranthene	202	10.124	10.124	(1.111)	3974777	50.0000	49
15 Pyrene	202	10.312	10.312	(0.900)	4199944	50.0000	49
16 Benzo(a)anthracene	228	11.446	11.446	(0.998)	3791270	50.0000	46
18 Chrysene	228	11.499	11.499	(1.003)	3771462	50.0000	48
19 Benzo(b)fluoranthene	252	12.791	12.791	(0.959)	3853307	50.0000	51(A)
20 Benzo(k)fluoranthene	252	12.838	12.838	(0.962)	3832862	50.0000	48
21 Benzo(a)pyrene	252	13.261	13.261	(0.994)	3794269	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276	14.995	14.995	(1.124)	4194422	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278	15.030	15.030	(1.126)	3730665	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276	15.465	15.465	(1.159)	3809441	50.0000	50(AH)

QC Flag Legend

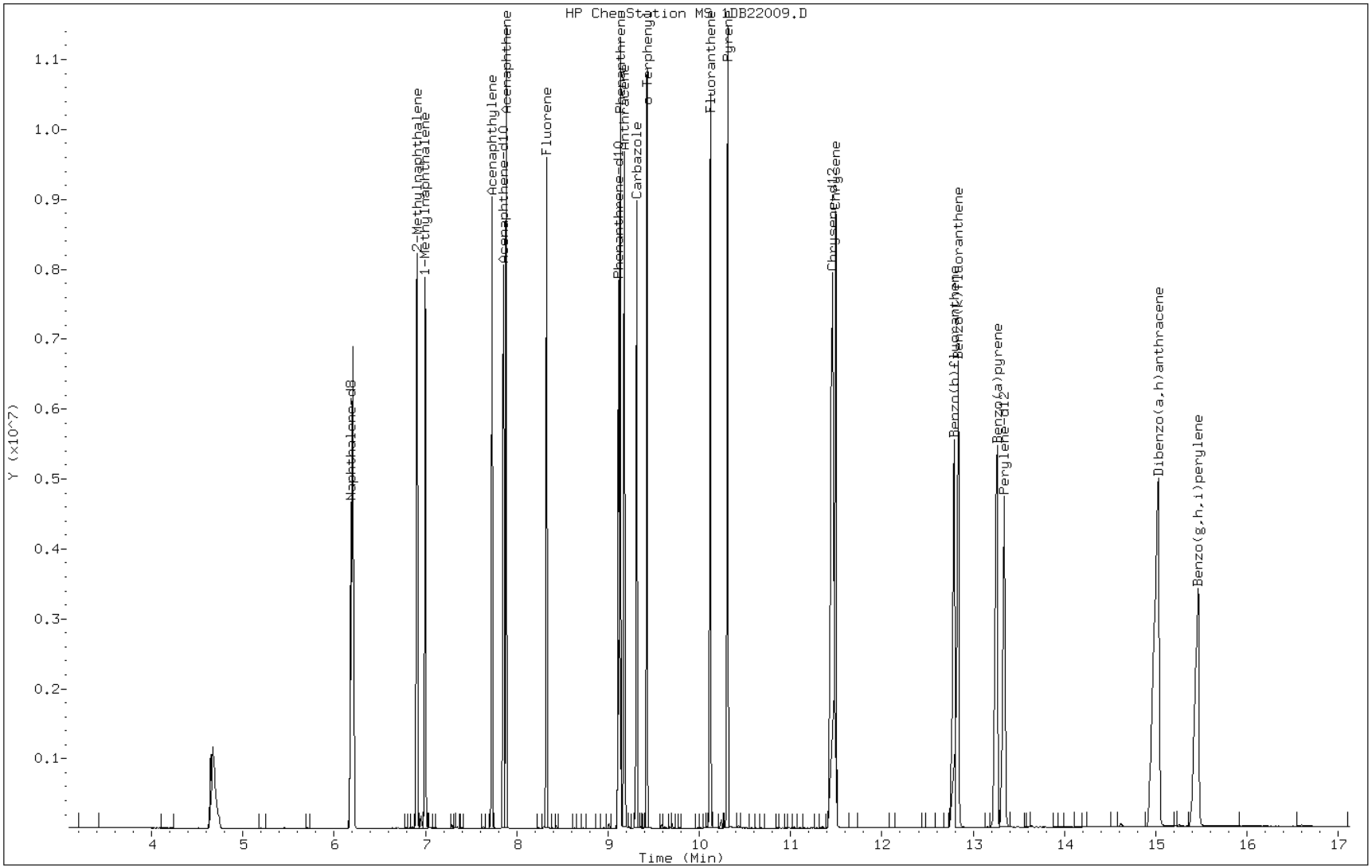
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22009.D

Date: 22-FEB-2013 14:28

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512374 Operator: SCC



Manual Integration Report

Data File: 1DB22009.D
Inj. Date and Time: 22-FEB-2013 14:28
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

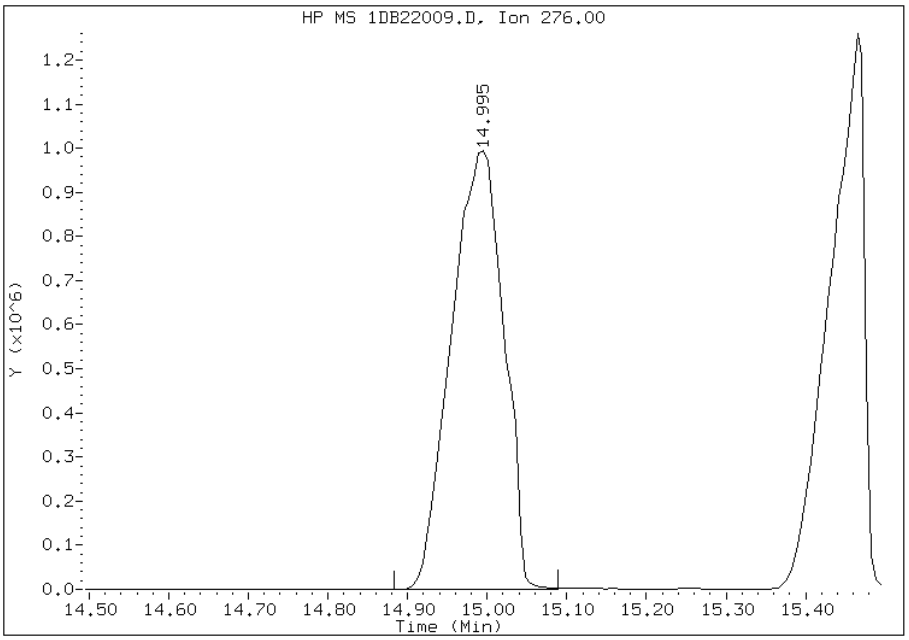
Processing Integration Results

RT: 15.00

Response: 4559640

Amount: 57

Conc: 57



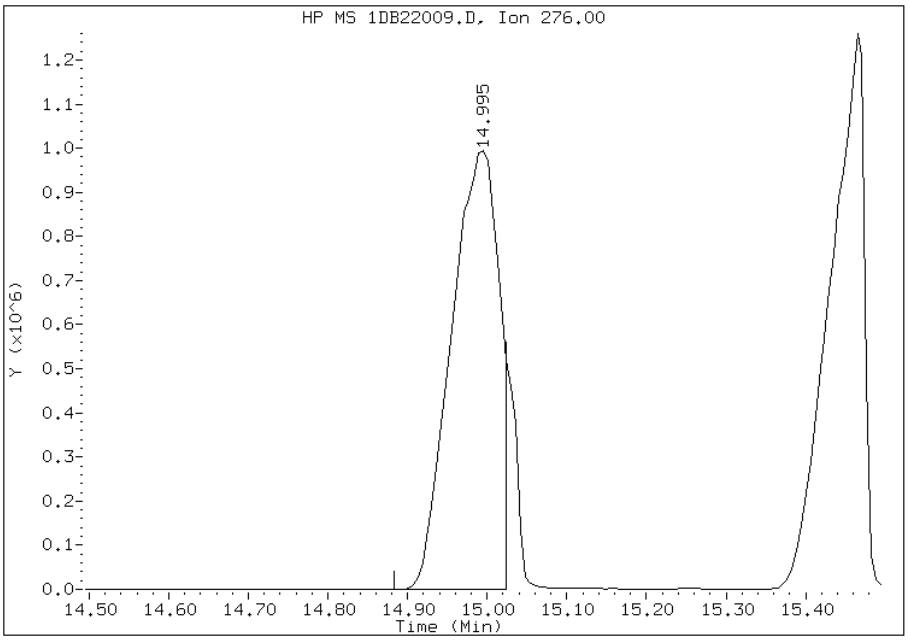
Manual Integration Results

RT: 15.00

Response: 4194422

Amount: 53

Conc: 53



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:00
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Lab Sample ID: ICV 660-134771/10 Calibration Date: 02/22/2013 12:48

Instrument ID: BSMA5973 Calib Start Date: 02/22/2013 11:01

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 12:32

Lab File ID: 1AB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9639	1.041	0.0000	21600	20000	8.0	35.0
2-Methylnaphthalene	Ave	0.4976	0.6073	0.0000	24400	20000	22.1	35.0
1-Methylnaphthalene	Ave	0.5541	0.6133	0.0000	22100	20000	10.7	35.0
Acenaphthylene	Ave	1.494	1.591	0.0000	21300	20000	6.5	35.0
Acenaphthene	Ave	0.8630	0.9140	0.0000	21200	20000	5.9	35.0
Fluorene	Ave	1.089	1.173	0.0000	21500	20000	7.7	35.0
Phenanthrene	Ave	0.9943	1.047	0.0000	21100	20000	5.3	35.0
Anthracene	Ave	0.9658	1.032	0.0000	21400	20000	6.8	35.0
Carbazole	Ave	0.8526	0.6904	0.0000	16200	20000	-19.0	35.0
Fluoranthene	Ave	0.9941	1.121	0.0000	22600	20000	12.8	35.0
Pyrene	Ave	1.173	1.180	0.0000	20100	20000	0.5	35.0
Benzo[a]anthracene	LinF	1.255	1.249	0.0000	20900	20000	4.6	35.0
Chrysene	Ave	1.068	1.082	0.0000	20300	20000	1.3	35.0
Benzo[b]fluoranthene	Ave	1.014	1.214	0.0000	23900	20000	19.7	35.0
Benzo[k]fluoranthene	Ave	1.020	0.9836	0.0000	19300	20000	-3.6	35.0
Benzo[a]pyrene	Ave	0.9286	0.9134	0.0000	19700	20000	-1.6	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.7967	0.8998	0.0000	22600	20000	12.9	35.0
Dibenz(a,h)anthracene	Ave	0.8302	0.9949	0.0000	24000	20000	19.8	35.0
Benzo[g,h,i]perylene	Ave	0.8473	0.9097	0.0000	21500	20000	7.4	35.0
o-Terphenyl	Ave	0.5820	0.5933	0.0000	20400	20000	1.9	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 12:48
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.399	2.397	(1.000)	1470215	40.0000	
* 6 Acenaphthene-d10	164	3.420	3.417	(1.000)	948405	40.0000	
* 10 Phenanthrene-d10	188	4.360	4.352	(1.000)	1446139	40.0000	
$ 14 o-Terphenyl	230	4.632	4.635	(1.062)	428980	20.3860	20.3860
* 18 Chrysene-d12	240	6.374	6.366	(1.000)	1373239	40.0000	
* 23 Perylene-d12	264	7.464	7.456	(1.000)	1363331	40.0000	
2 Naphthalene	128	2.405	2.402	(1.002)	765124	21.5974	21.5973
3 2-Methylnaphthalene	141	2.811	2.808	(1.171)	446439	24.4108	24.4108
4 1-Methylnaphthalene	142	2.864	2.861	(1.194)	450855	22.1381	22.1381
5 Acenaphthylene	152	3.334	3.332	(0.975)	754514	21.3067	21.3066
7 Acenaphthene	154	3.441	3.433	(1.006)	433440	21.1828	21.1827
9 Fluorene	166	3.751	3.743	(1.097)	556408	21.5449	21.5448
11 Phenanthrene	178	4.376	4.368	(1.004)	756904	21.0566	21.0566
12 Anthracene	178	4.408	4.400	(1.011)	745923	21.3632	21.3632
13 Carbazole	167	4.552	4.555	(1.044)	499181	16.1953	16.1952(M)
15 Fluoranthene	202	5.231	5.228	(1.200)	810723	22.5570	22.5570
16 Pyrene	202	5.396	5.394	(0.847)	809912	20.1075	20.1075

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.363	6.355	(0.998)	857818	20.9204	20.9204
19 Chrysene	228	6.390	6.387	(1.002)	742781	20.2547	20.2547
20 Benzo(b)fluoranthene	252	7.186	7.178	(0.963)	827441	23.9419	23.9419
21 Benzo(k)fluoranthene	252	7.207	7.199	(0.966)	670501	19.2840	19.2839
22 Benzo(a)pyrene	252	7.410	7.408	(0.993)	622627	19.6723	19.6722
24 Indeno(1,2,3-cd)pyrene	276	8.190	8.177	(1.097)	613332	22.5881	22.5880(M)
25 Dibenzo(a,h)anthracene	278	8.206	8.193	(1.099)	678184	23.9679	23.9678
26 Benzo(g,h,i)perylene	276	8.399	8.385	(1.125)	620086	21.4710	21.4710

QC Flag Legend

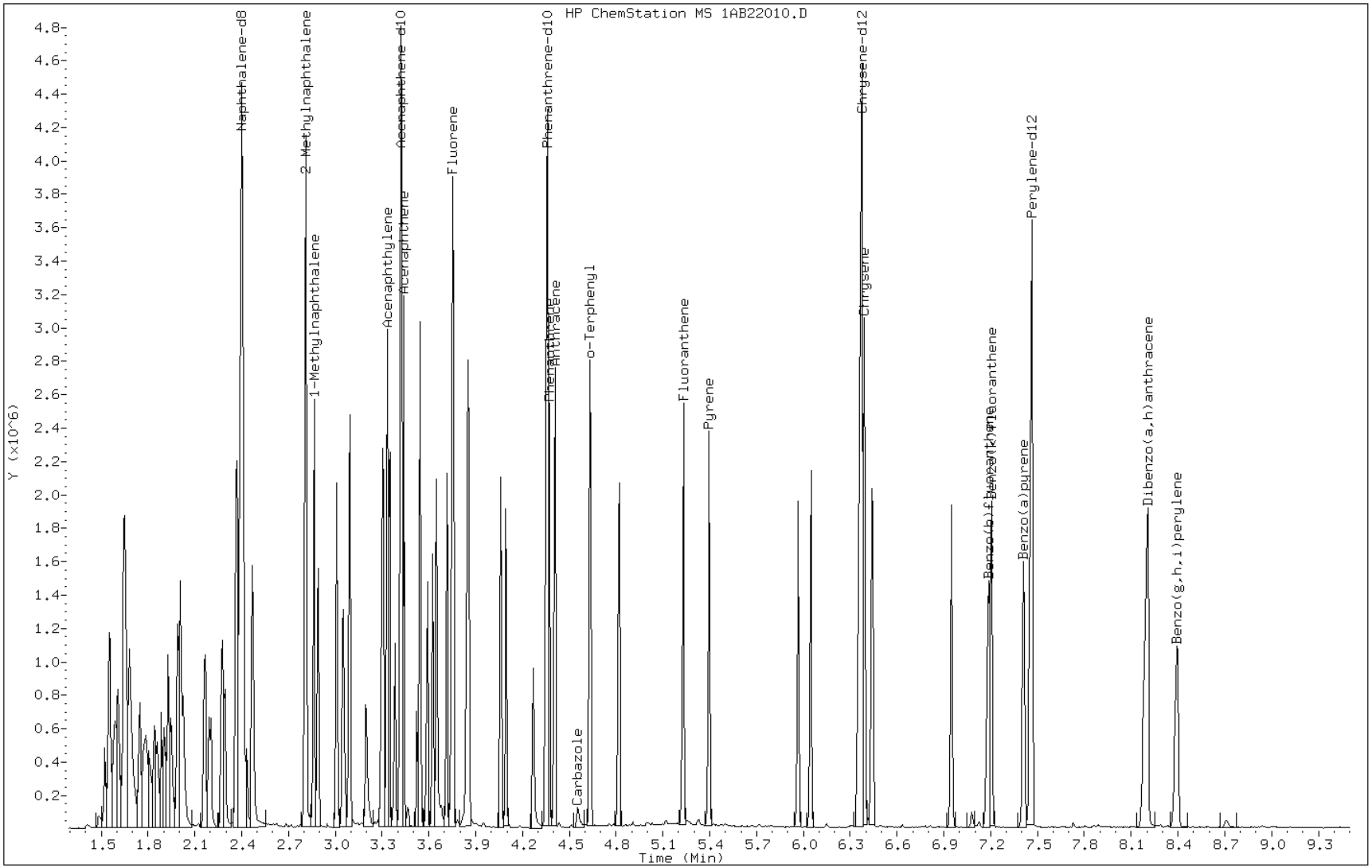
M - Compound response manually integrated.

Data File: 1AB22010.D

Date: 22-FEB-2013 12:48

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1AB22010.D
Inj. Date and Time: 22-FEB-2013 12:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 02/22/2013

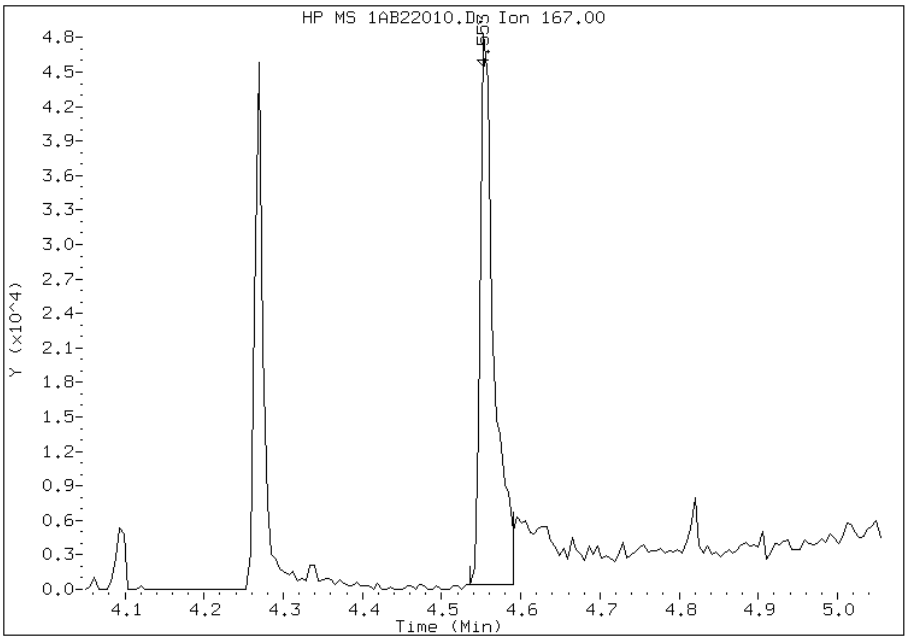
Processing Integration Results

RT: 4.55

Response: 57208

Amount: 2

Conc: 2



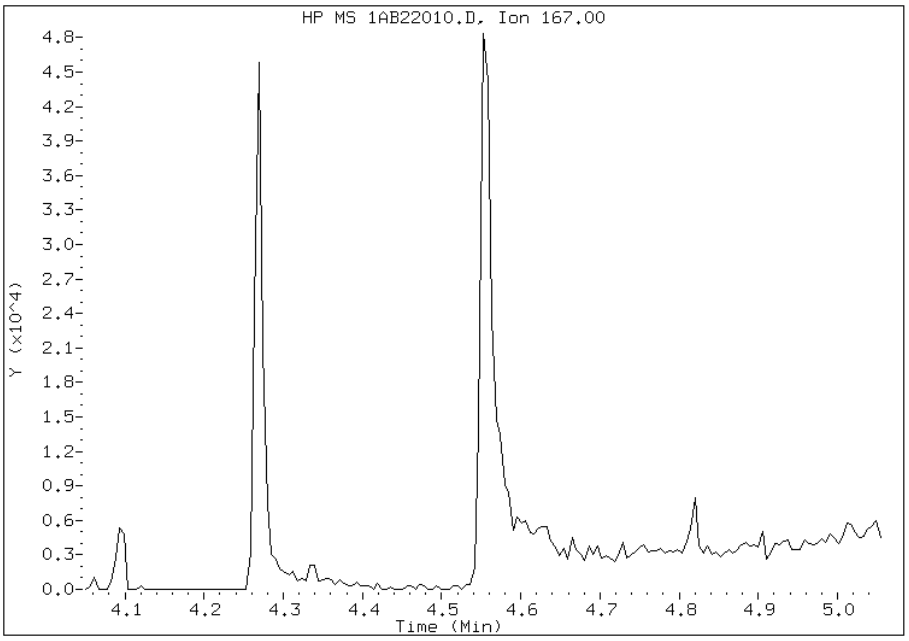
Manual Integration Results

RT: 4.55

Response: 499181

Amount: 16

Conc: 16



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 13:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22010.D
Inj. Date and Time: 22-FEB-2013 12:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

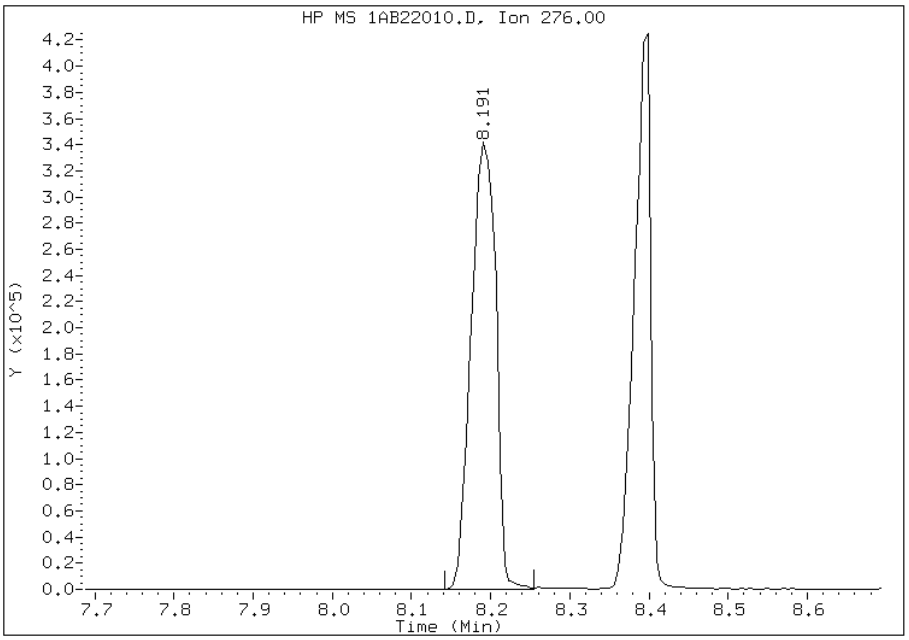
Processing Integration Results

RT: 8.19

Response: 733813

Amount: 27

Conc: 27



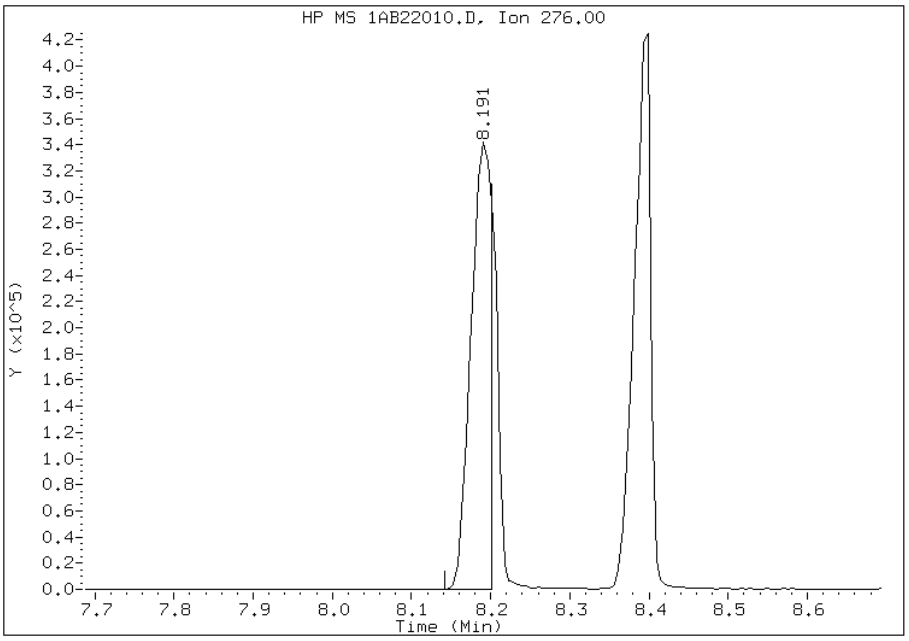
Manual Integration Results

RT: 8.19

Response: 613332

Amount: 23

Conc: 23



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 13:02
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Lab Sample ID: CCVIS 660-134820/6 Calibration Date: 02/25/2013 14:59

Instrument ID: BSMA5973 Calib Start Date: 02/22/2013 11:01

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 12:32

Lab File ID: 1AB25006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9639	0.9188	0.0000	19100	20000	-4.7	20.0
2-Methylnaphthalene	Ave	0.4976	0.4755	0.0000	19100	20000	-4.4	20.0
1-Methylnaphthalene	Ave	0.5541	0.5294	0.0000	19100	20000	-4.5	20.0
Acenaphthylene	Ave	1.494	1.502	0.0000	20100	20000	0.6	20.0
Acenaphthene	Ave	0.8630	0.8273	0.0000	19200	20000	-4.1	20.0
Fluorene	Ave	1.089	1.050	0.0000	19300	20000	-3.6	20.0
Phenanthrene	Ave	0.9943	1.040	0.0000	20900	20000	4.6	20.0
Anthracene	Ave	0.9658	1.026	0.0000	21300	20000	6.3	20.0
Carbazole	Ave	0.8526	0.8692	0.0000	20400	20000	2.0	20.0
Fluoranthene	Ave	0.9941	1.046	0.0000	21100	20000	5.3	20.0
Pyrene	Ave	1.173	1.262	0.0000	21500	20000	7.5	20.0
Benzo[a]anthracene	LinF	1.255	1.172	0.0000	19600	20000	-1.8	20.0
Chrysene	Ave	1.068	1.037	0.0000	19400	20000	-2.9	20.0
Benzo[b]fluoranthene	Ave	1.014	0.9469	0.0000	18700	20000	-6.6	20.0
Benzo[k]fluoranthene	Ave	1.020	1.188	0.0000	23300	20000	16.5	20.0
Benzo[a]pyrene	Ave	0.9286	0.9719	0.0000	20900	20000	4.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.7967	0.7535	0.0000	18900	20000	-5.4	20.0
Dibenz(a,h)anthracene	Ave	0.8302	0.8248	0.0000	19900	20000	-0.6	20.0
Benzo[g,h,i]perylene	Ave	0.8473	0.8531	0.0000	20100	20000	0.7	20.0
o-Terphenyl	Ave	0.5820	0.5637	0.0000	19400	20000	-3.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25006.D
Lab Smp Id: CCVIS-1512372
Inj Date : 25-FEB-2013 14:59
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.379	2.379	(1.000)	843764	40.0000	
* 6 Acenaphthene-d10	164	3.404	3.404	(1.000)	532930	40.0000	
* 10 Phenanthrene-d10	188	4.339	4.339	(1.000)	749974	40.0000	
$ 14 o-Terphenyl	230	4.622	4.622	(1.065)	211362	20.0000	19.3680
* 18 Chrysene-d12	240	6.353	6.353	(1.000)	646044	40.0000	
* 23 Perylene-d12	264	7.443	7.443	(1.000)	653985	40.0000	
2 Naphthalene	128	2.389	2.389	(1.004)	387639	20.0000	19.0658
3 2-Methylnaphthalene	141	2.790	2.790	(1.173)	200599	20.0000	19.1121
4 1-Methylnaphthalene	142	2.849	2.849	(1.198)	223331	20.0000	19.1079
5 Acenaphthylene	152	3.319	3.319	(0.975)	400298	20.0000	20.1166
7 Acenaphthene	154	3.420	3.420	(1.005)	220447	20.0000	19.1726
9 Fluorene	166	3.730	3.730	(1.096)	279917	20.0000	19.2887
11 Phenanthrene	178	4.355	4.355	(1.004)	390104	20.0000	20.9262
12 Anthracene	178	4.387	4.387	(1.011)	384839	20.0000	21.2527
13 Carbazole	167	4.542	4.542	(1.047)	325931	20.0000	20.3901
15 Fluoranthene	202	5.215	5.215	(1.202)	392359	20.0000	21.0502
16 Pyrene	202	5.381	5.381	(0.847)	407585	20.0000	21.5091
17 Benzo(a)anthracene	228	6.342	6.342	(0.998)	378684	20.0000	19.6307
19 Chrysene	228	6.369	6.369	(1.003)	335032	20.0000	19.4194
20 Benzo(b)fluoranthene	252	7.165	7.165	(0.963)	309635	20.0000	18.6769
21 Benzo(k)fluoranthene	252	7.181	7.181	(0.965)	388543	20.0000	23.2953
22 Benzo(a)pyrene	252	7.390	7.390	(0.993)	317805	20.0000	20.9325
24 Indeno(1,2,3-cd)pyrene	276	8.164	8.164	(1.097)	246391	20.0000	18.9165(M)
25 Dibenzo(a,h)anthracene	278	8.180	8.180	(1.099)	269706	20.0000	19.8703
26 Benzo(g,h,i)perylene	276	8.367	8.367	(1.124)	278972	20.0000	20.1370

QC Flag Legend

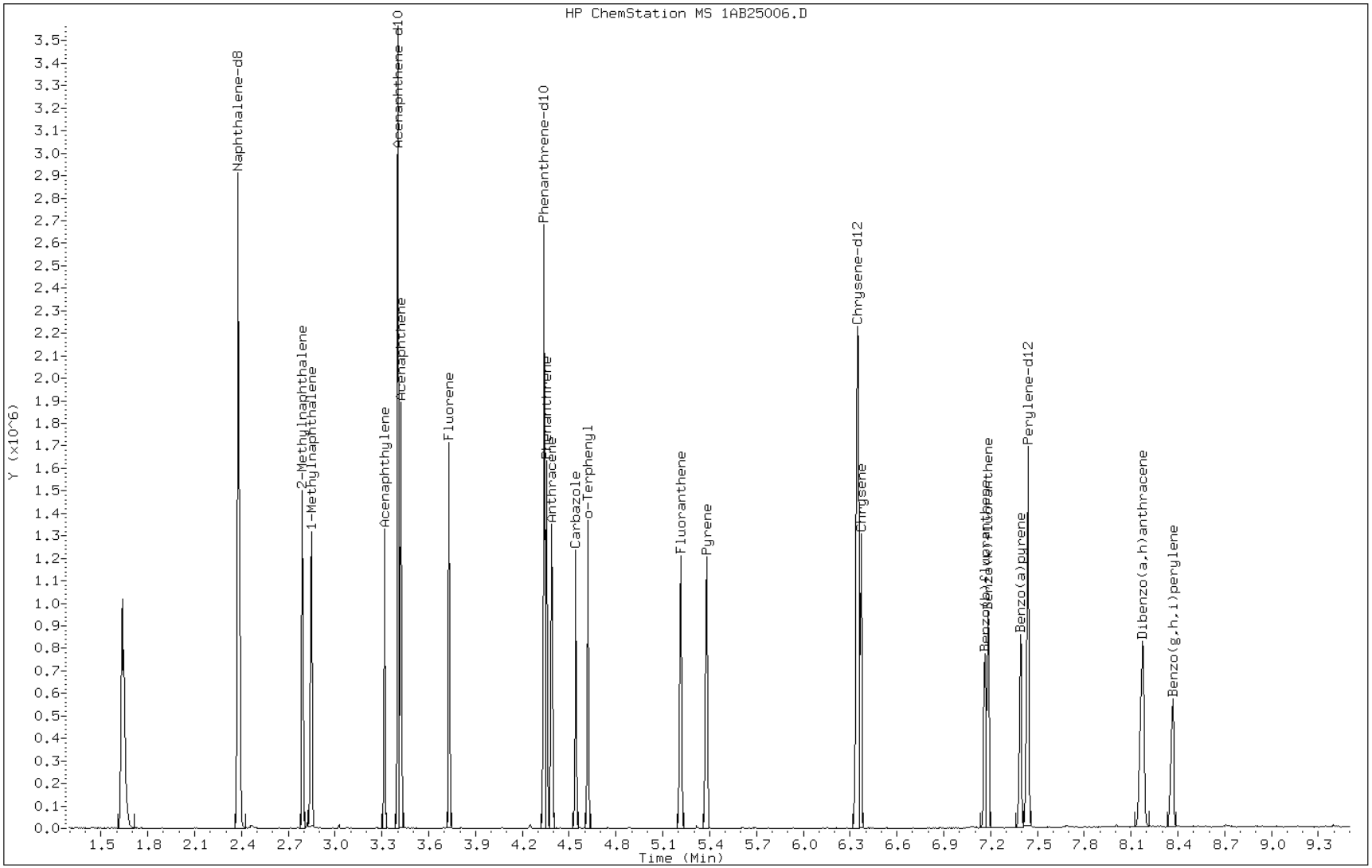
M - Compound response manually integrated.

Data File: 1AB25006.D

Date: 25-FEB-2013 14:59

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1AB25006.D
Inj. Date and Time: 25-FEB-2013 14:59
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

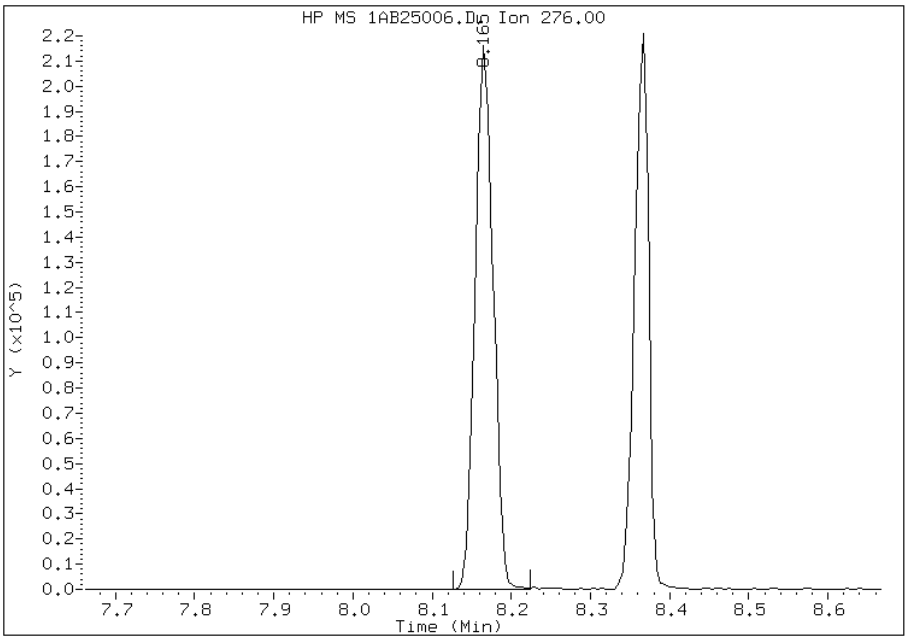
Processing Integration Results

RT: 8.16

Response: 337982

Amount: 26

Conc: 26



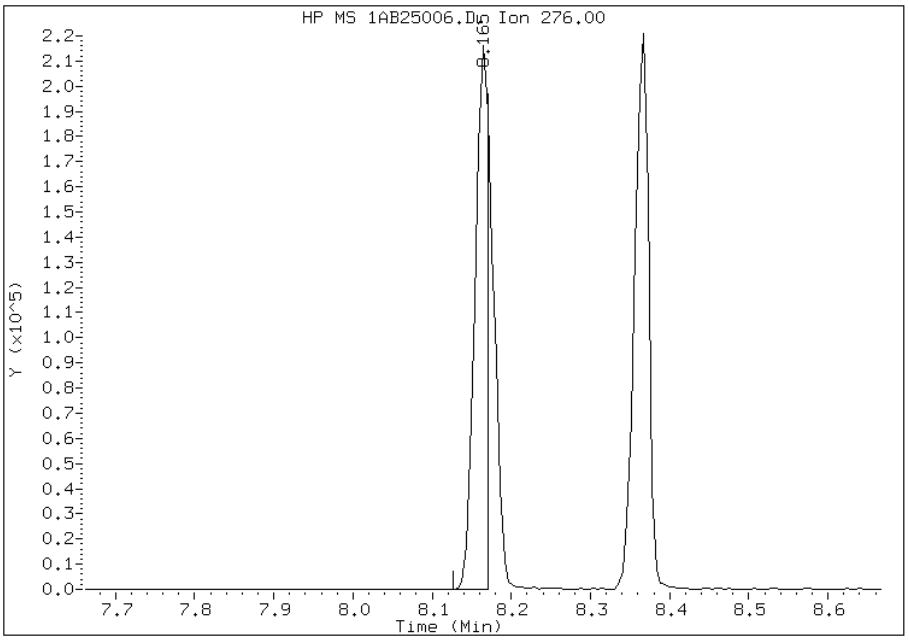
Manual Integration Results

RT: 8.16

Response: 246391

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 15:12
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06

Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 13:48

Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 14:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1383069	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1075067	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2141313	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	528461	16.3458	16.3457
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2766374	40.0000	
* 23 Perylene-d12	264	9.015	9.016	(1.000)	3034368	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643385	17.8686	17.8685
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	426527	17.7587	17.7586
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	406896	18.6013	18.6013
5 Acenaphthylene	152	4.804	4.804	(0.982)	792099	18.2750	18.2749
7 Acenaphthene	154	4.910	4.910	(1.004)	511893	19.0010	19.0010
9 Fluorene	166	5.233	5.234	(1.070)	612561	17.9790	17.9790
11 Phenanthrene	178	5.863	5.863	(1.003)	1016506	16.4172	16.4171
12 Anthracene	178	5.898	5.898	(1.009)	1040221	17.1782	17.1781
13 Carbazole	167	6.004	6.004	(1.027)	936321	17.3944	17.3943
15 Fluoranthene	202	6.704	6.704	(1.147)	1196804	17.6502	17.6501
16 Pyrene	202	6.874	6.875	(0.882)	1218381	16.3888	16.3887

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1353867	16.9566	16.9566
19 Chrysene	228	7.815	7.822	(1.002)	1268380	15.8740	15.8740
20 Benzo(b)fluoranthene	252	8.656	8.657	(0.960)	1483299	18.7051	18.7050
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1339047	16.4606	16.4605
22 Benzo(a)pyrene	252	8.956	8.963	(0.993)	1205817	15.6548	15.6547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.239	(1.135)	1271997	17.5546	17.5546(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.257	(1.137)	1346652	19.0003	19.0002
26 Benzo(g,h,i)perylene	276	10.597	10.610	(1.175)	1313135	17.3240	17.3240

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22010.D

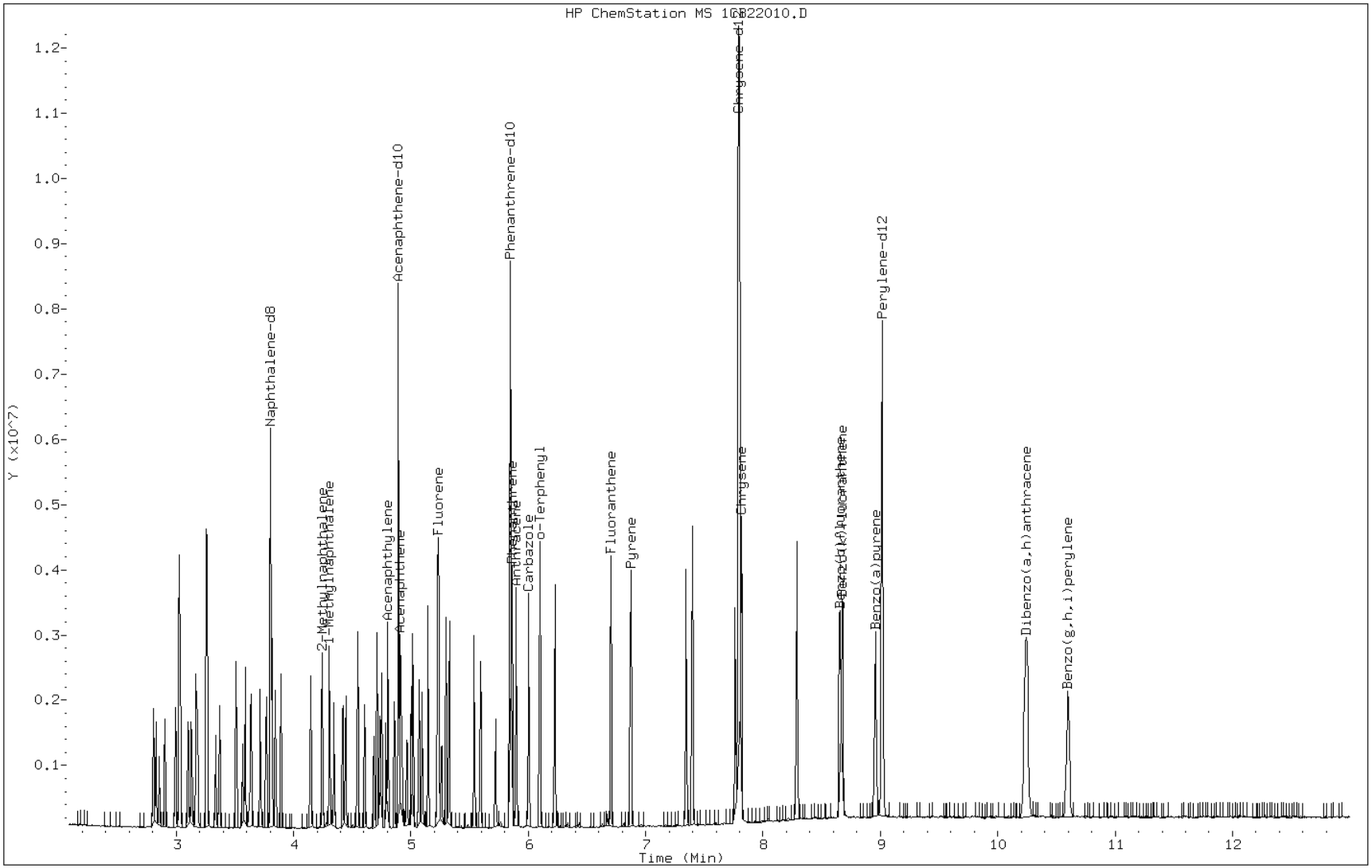
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CB22010.D
Inj. Date and Time: 22-FEB-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

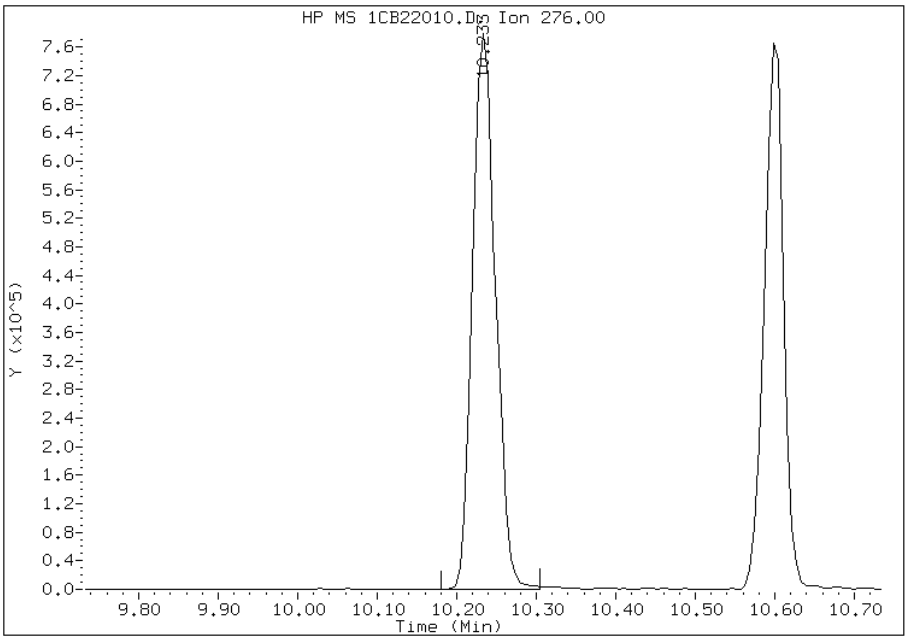
Processing Integration Results

RT: 10.23

Response: 1550656

Amount: 21

Conc: 21



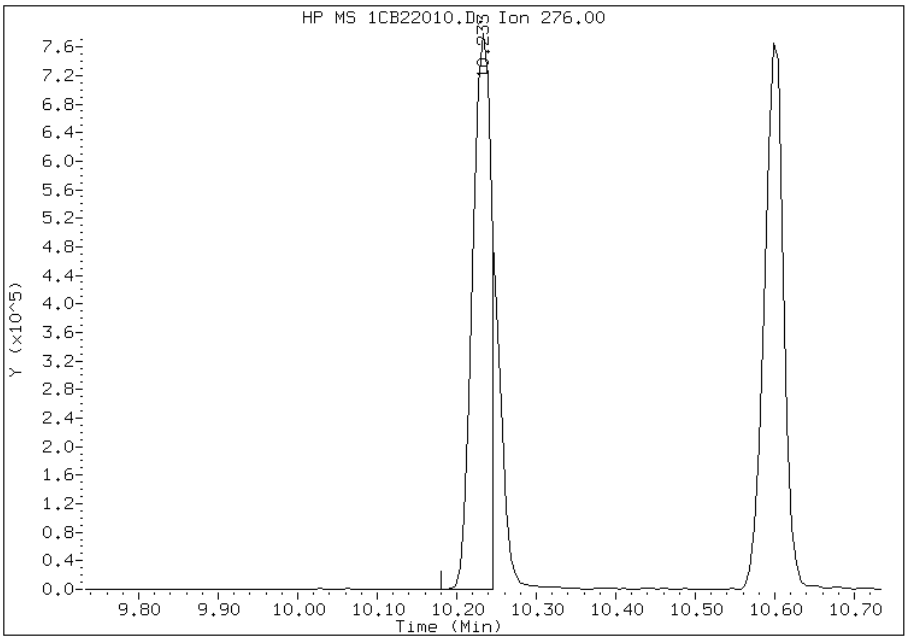
Manual Integration Results

RT: 10.23

Response: 1271997

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:21
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Lab Sample ID: ICV 660-134781/10 Calibration Date: 02/22/2013 14:51

Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 14:28

Lab File ID: 1DB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	0.9509	0.0000	17800	20000	-11.1	35.0
2-Methylnaphthalene	Ave	0.6816	0.6138	0.0000	18000	20000	-9.9	35.0
1-Methylnaphthalene	Ave	0.6383	0.5884	0.0000	18400	20000	-7.8	35.0
Acenaphthylene	Ave	1.764	1.543	0.0000	17500	20000	-12.5	35.0
Acenaphthene	Ave	1.075	0.9046	0.0000	16800	20000	-15.9	35.0
Fluorene	Ave	1.256	1.107	0.0000	17600	20000	-11.9	35.0
Phenanthrene	Ave	1.135	0.9678	0.0000	17000	20000	-14.8	35.0
Anthracene	Ave	1.136	0.9920	0.0000	17500	20000	-12.7	35.0
Carbazole	Ave	1.016	0.8513	0.0000	16800	20000	-16.2	35.0
Fluoranthene	Ave	1.185	1.044	0.0000	17600	20000	-11.9	35.0
Pyrene	Ave	1.241	1.040	0.0000	16800	20000	-16.1	35.0
Benzo[a]anthracene	LinF	1.184	1.006	0.0000	18400	20000	-8.1	35.0
Chrysene	Ave	1.131	0.9327	0.0000	16500	20000	-17.5	35.0
Benzo[b]fluoranthene	Ave	1.030	0.9311	0.0000	18100	20000	-9.6	35.0
Benzo[k]fluoranthene	Ave	1.078	0.9609	0.0000	17800	20000	-10.9	35.0
Benzo[a]pyrene	Ave	1.019	0.8258	0.0000	16200	20000	-19.0	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9629	0.0000	17700	20000	-11.4	35.0
Dibenz(a,h)anthracene	Ave	1.004	0.9897	0.0000	19700	20000	-1.4	35.0
Benzo[g,h,i]perylene	Ave	1.037	0.9265	0.0000	17900	20000	-10.6	35.0
o-Terphenyl	Ave	0.6186	0.5223	0.0000	16900	20000	-15.6	35.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 14:51
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136	6.186	6.188	(1.000)	3227519	40.0000	
* 6 Acenaphthene-d10	164	7.861	7.856	(1.000)	1973397	40.0000	
* 9 Phenanthrene-d10	188	9.118	9.114	(1.000)	3226971	40.0000	
$ 13 o-Terphenyl	230	9.424	9.431	(1.034)	842705	16.8872	17
* 17 Chrysene-d12	240	11.463	11.464	(1.000)	3262056	40.0000	
* 22 Perylene-d12	264	13.343	13.344	(1.000)	3389756	40.0000	
2 Naphthalene	128	6.204	6.205	(1.003)	1534495	17.7730	18
3 2-Methylnaphthalene	142	6.903	6.910	(1.116)	990529	18.0102	18
4 1-Methylnaphthalene	142	6.997	6.999	(1.131)	949525	18.4366	18
5 Acenaphthylene	152	7.732	7.733	(0.984)	1522763	17.5026	18
7 Acenaphthene	154	7.884	7.886	(1.003)	892518	16.8249	17
8 Fluorene	166	8.325	8.326	(1.059)	1091870	17.6166	18
10 Phenanthrene	178	9.136	9.137	(1.002)	1561459	17.0459	17
11 Anthracene	178	9.177	9.184	(1.006)	1600546	17.4635	17
12 Carbazole	167	9.324	9.313	(1.023)	1373599	16.7651	17(M)
14 Fluoranthene	202	10.117	10.124	(1.110)	1683952	17.6156	18
15 Pyrene	202	10.305	10.312	(0.899)	1697011	16.7712	17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.439	11.446	(0.998)	1641298	18.3780	18
18 Chrysene	228	11.486	11.499	(1.002)	1521333	16.5002	16
19 Benzo(b)fluoranthene	252	12.779	12.792	(0.958)	1578092	18.0867	18
20 Benzo(k)fluoranthene	252	12.820	12.839	(0.961)	1628670	17.8278	18
21 Benzo(a)pyrene	252	13.243	13.262	(0.993)	1399541	16.2092	16
23 Indeno(1,2,3-cd)pyrene	276	14.964	14.995	(1.122)	1631960	17.7111	18(H)
24 Dibenzo(a,h)anthracene	278	15.000	15.030	(1.124)	1677351	19.7111	20
25 Benzo(g,h,i)perylene	276	15.428	15.465	(1.156)	1570269	17.8738	18

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22010.D

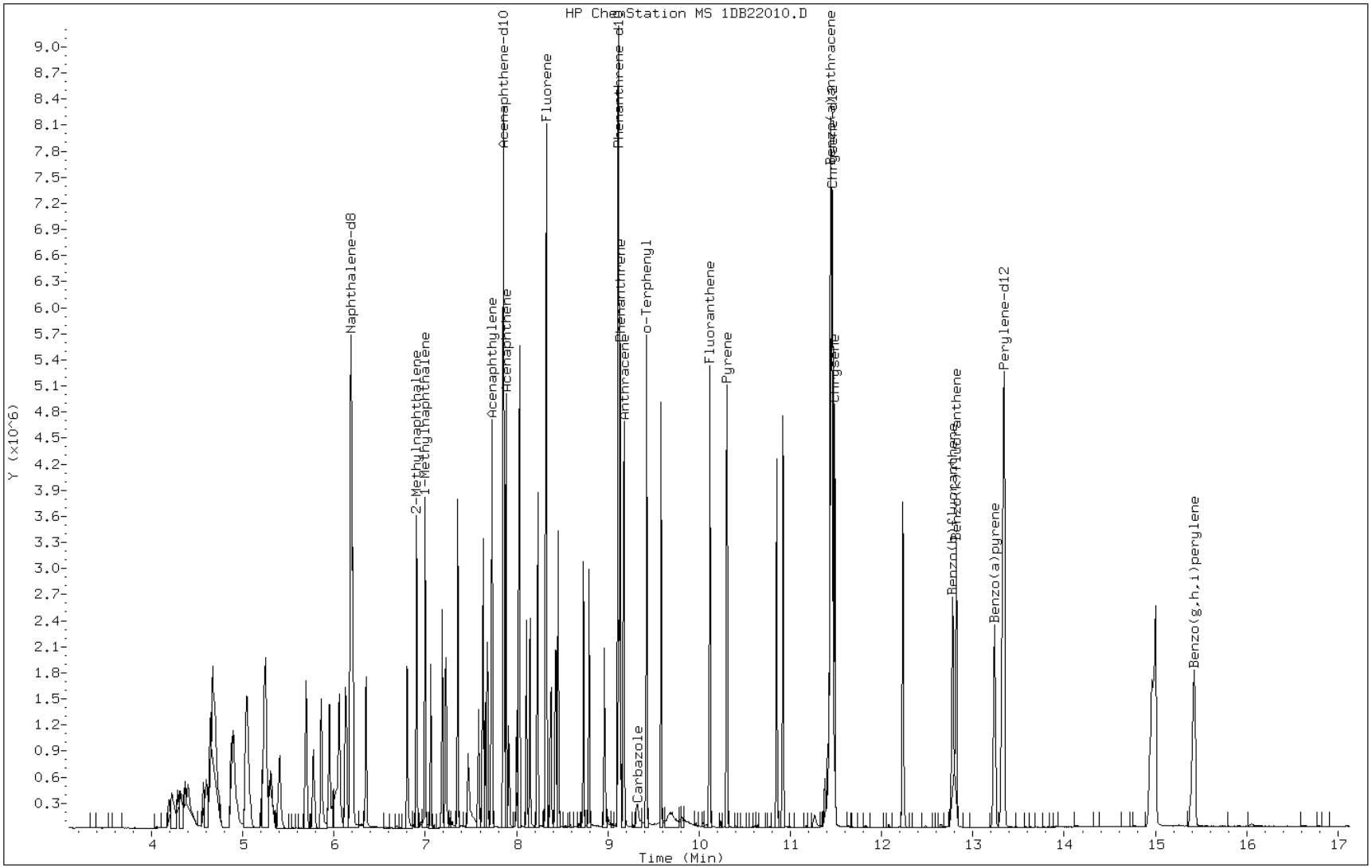
Date: 22-FEB-2013 14:51

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1DB22010.D
Inj. Date and Time: 22-FEB-2013 14:51
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 02/22/2013

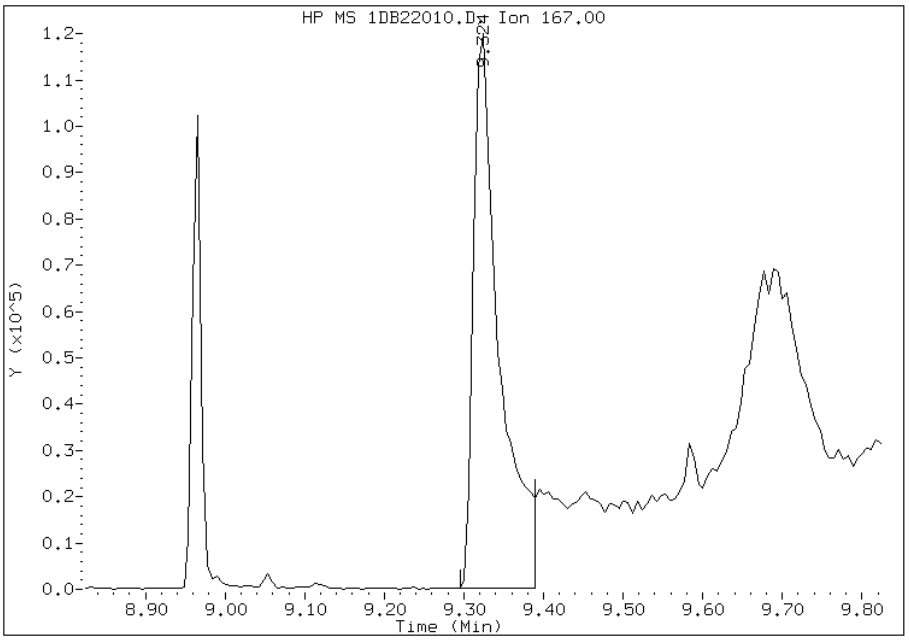
Processing Integration Results

RT: 9.32

Response: 270307

Amount: 3

Conc: 3



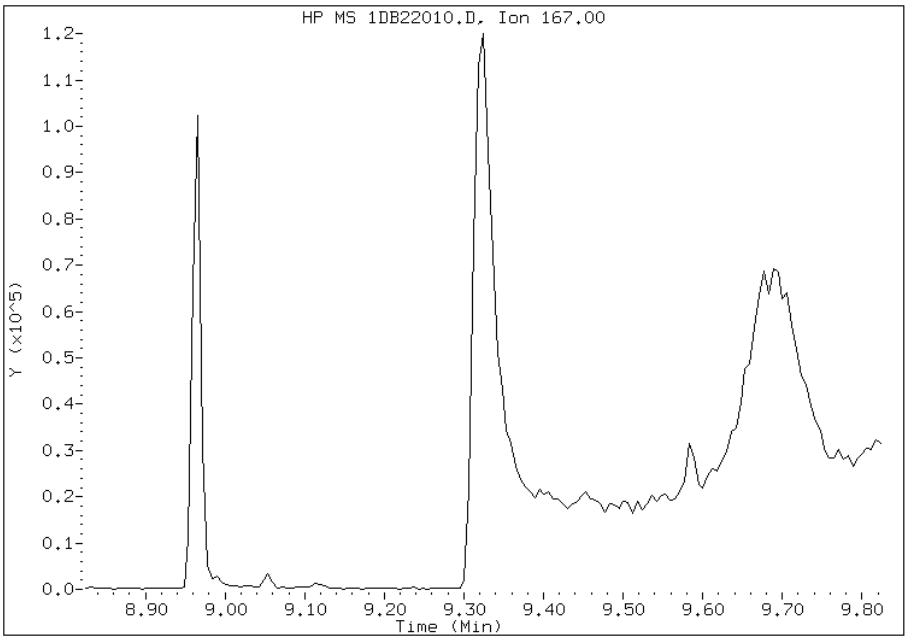
Manual Integration Results

RT: 9.32

Response: 1373599

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:27
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 10:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

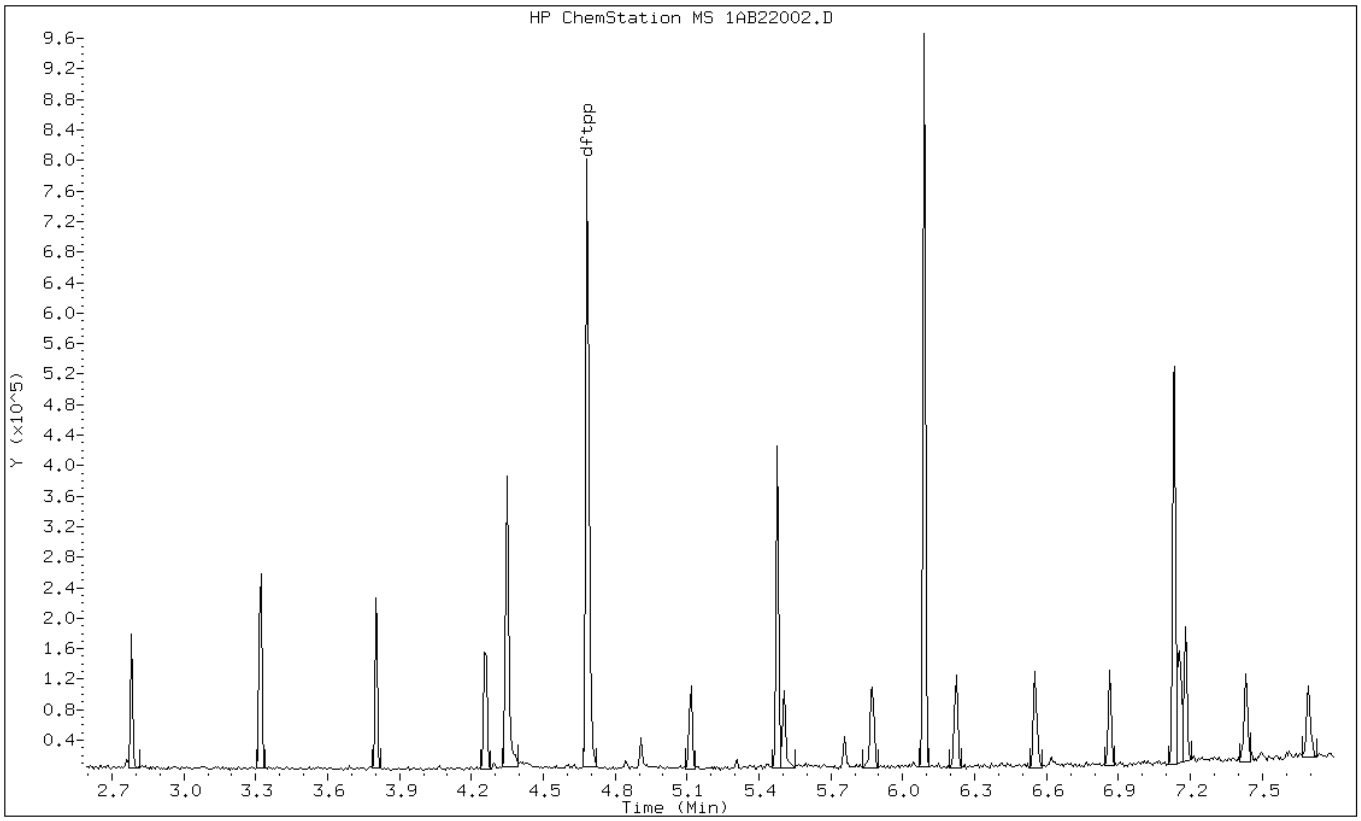
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.683	4.928	-0.245	198	76440			50.00- 0.00	100.00
4.683	4.928	-0.245	51	48552			10.00- 80.00	63.52
4.683	4.928	-0.245	68	695			0.00- 2.00	1.70
4.683	4.928	-0.245	69	40984			0.00- 0.00	53.62
4.683	4.928	-0.245	70	313			0.00- 2.00	0.76
4.683	4.928	-0.245	127	33880			10.00- 80.00	44.32
4.683	4.928	-0.245	197	0	0.0	0.0	0.00- 2.00	0.00
4.683	4.928	-0.245	442	51640			50.00- 0.00	67.56
4.683	4.928	-0.245	199	4343			5.00- 9.00	5.68
4.683	4.928	-0.245	275	19136			10.00- 60.00	25.03
4.683	4.928	-0.245	365	2453			1.00- 0.00	3.21
4.683	4.928	-0.245	441	6484			0.01- 99.99	79.28
4.683	4.928	-0.245	443	8179			15.00- 24.00	15.84

Data File: 1AB22002.D

Date: 22-FEB-2013 10:42

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



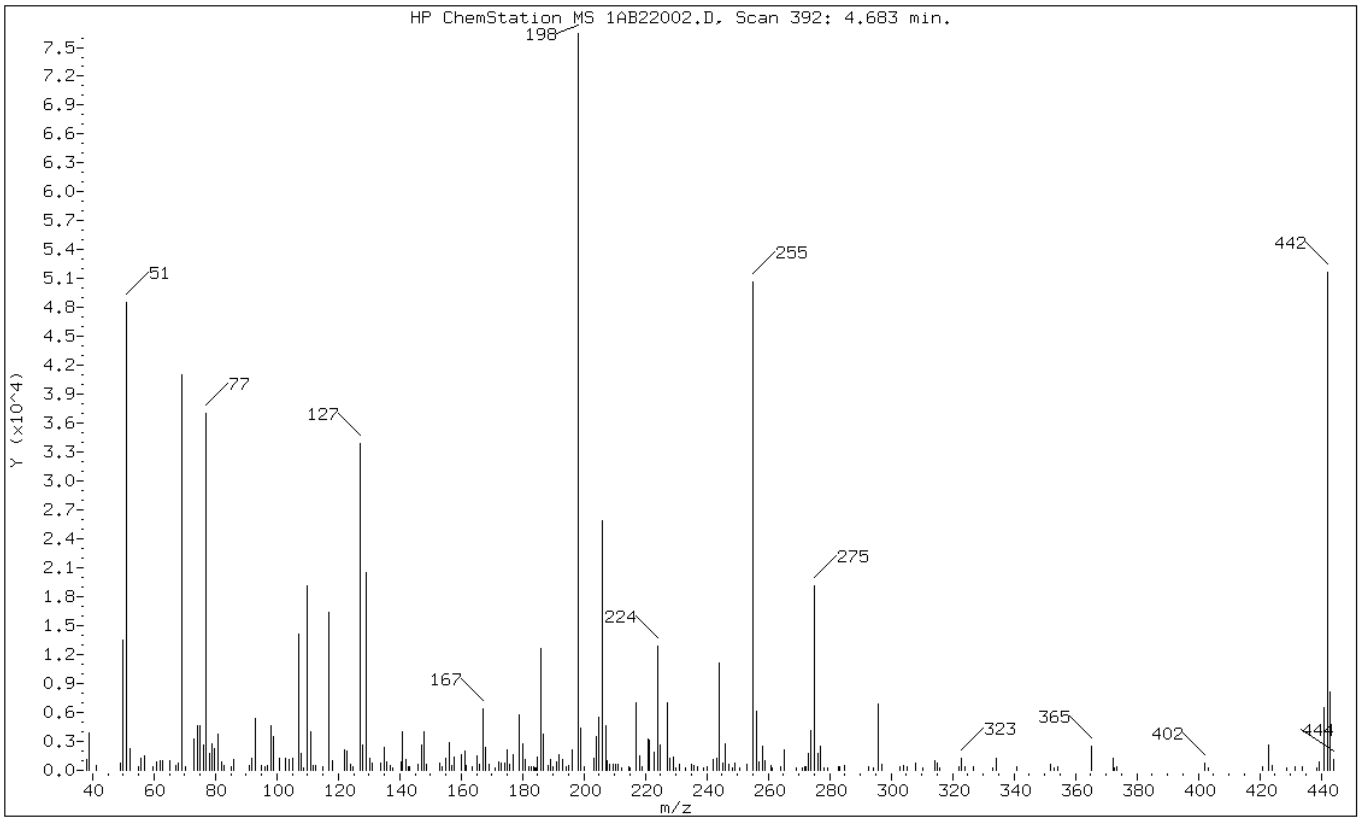
Data File: 1AB22002.D

Date: 22-FEB-2013 10:42

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	63.52
68	Less than 2.00% of mass 69	0.91 (1.70)
69	Mass 69 relative abundance	53.62
70	Less than 2.00% of mass 69	0.41 (0.76)
127	10.00 - 80.00% of mass 198	44.32
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.56
199	5.00 - 9.00% of mass 198	5.68
275	10.00 - 60.00% of mass 198	25.03
365	Greater than 1.00% of mass 198	3.21
441	Present, but less than mass 443	8.48
443	15.00 - 24.00% of mass 442	10.70 (15.84)

Data File: 1AB22002.D

Date: 22-FEB-2013 10:42

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22002.D
Spectrum: HP ChemStation MS 1AB22002.D, Scan 392: 4.683 min.
Location of Maximum: 198.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	1153	127.00	33880	194.20	434	269.20	256
39.00	3901	128.00	2620	195.20	479	271.10	267
41.10	559	129.00	20472	196.00	2162	271.80	321
49.00	742	130.10	1229	198.00	76440	272.30	357
50.00	13495	131.10	707	198.90	4343	273.00	1788
51.10	48552	134.00	733	200.10	313	274.00	4170
52.10	2289	135.00	2429	203.10	1213	275.00	19136
55.10	393	135.90	826	204.10	3455	276.10	1704
55.90	1274	137.00	527	205.00	5534	277.10	2520
57.00	1489	137.80	258	206.00	25944	278.30	253
59.70	351	140.30	859	207.10	4571	279.20	254
61.00	921	141.00	3943	207.70	997	282.80	333
62.00	978	142.10	1176	208.20	617	283.10	392
63.00	1049	142.90	410	209.40	639	285.00	539
65.00	989	143.10	410	210.20	629	292.80	317
67.00	554	146.00	603	211.00	591	294.40	260
67.80	695	147.10	2625	212.10	283	296.00	6928
69.00	40984	148.00	3950	214.50	412	297.10	604
70.10	313	148.80	676	215.20	311	303.00	324
73.10	3244	152.90	760	217.00	6968	304.10	484
74.00	4690	153.80	361	218.10	1521	305.10	409
75.00	4581	155.00	1227	218.80	315	308.10	725
76.10	2591	156.10	2898	221.00	3248	310.20	250
77.10	37072	157.00	445	221.30	3132	314.10	976
78.10	1749	157.90	1331	223.00	1909	315.20	810
78.90	2758	160.00	1611	224.10	12886	316.00	275
79.80	2228	161.10	2037	225.00	2626	322.00	374
81.00	3724	161.80	525	227.00	7049	323.00	1296
82.10	889	163.80	323	227.90	1242	324.20	381
83.00	487	165.00	1535	229.00	1425	326.80	328
85.10	368	166.10	619	230.10	312	333.00	311
86.00	1135	167.00	6330	231.20	601	334.10	1292
91.00	478	168.10	2348	232.90	260	340.90	433
92.00	1243	169.20	579	235.00	643	352.00	686
93.00	5320	171.10	295	236.00	555	353.20	307
95.00	452	172.10	909	236.80	320	354.20	418
96.30	341	173.00	778	239.10	304	365.10	2453
97.10	462	174.10	770	240.10	385	372.30	1226
98.00	4672	175.00	2158	242.00	1100	372.80	254
99.00	3560	175.80	583	243.10	1259	373.40	339

101.00	1215	177.00	1626	244.10	11075	402.00	723
103.00	1200	179.00	5738	245.20	781	403.30	273
104.10	1188	180.10	2793	246.10	2764	421.10	397
105.00	1287	180.90	1134	247.00	596	423.10	2660
107.00	14120	182.10	437	248.30	297	423.90	559
107.90	1762	182.90	346	249.30	777	428.80	261
108.80	304	183.70	418	250.90	273	431.40	365
110.00	19200	184.10	287	253.20	565	433.80	325
111.00	3941	184.30	289	255.10	50672	438.60	291
112.00	530	184.90	1381	256.10	6117	439.20	886
112.60	470	186.00	12633	257.10	937	441.00	6484
115.10	321	186.90	3785	258.10	2516	442.00	51640
117.00	16392	188.20	480	259.00	942	443.00	8179
118.10	945	189.00	1158	260.90	490	444.10	1146
122.00	2165	190.00	413	261.30	276		
122.90	1978	190.90	838	263.90	325		
123.90	580	192.00	1684	264.20	322		
124.80	382	193.10	1067	265.20	2067		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 25-FEB-2013 14:44
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

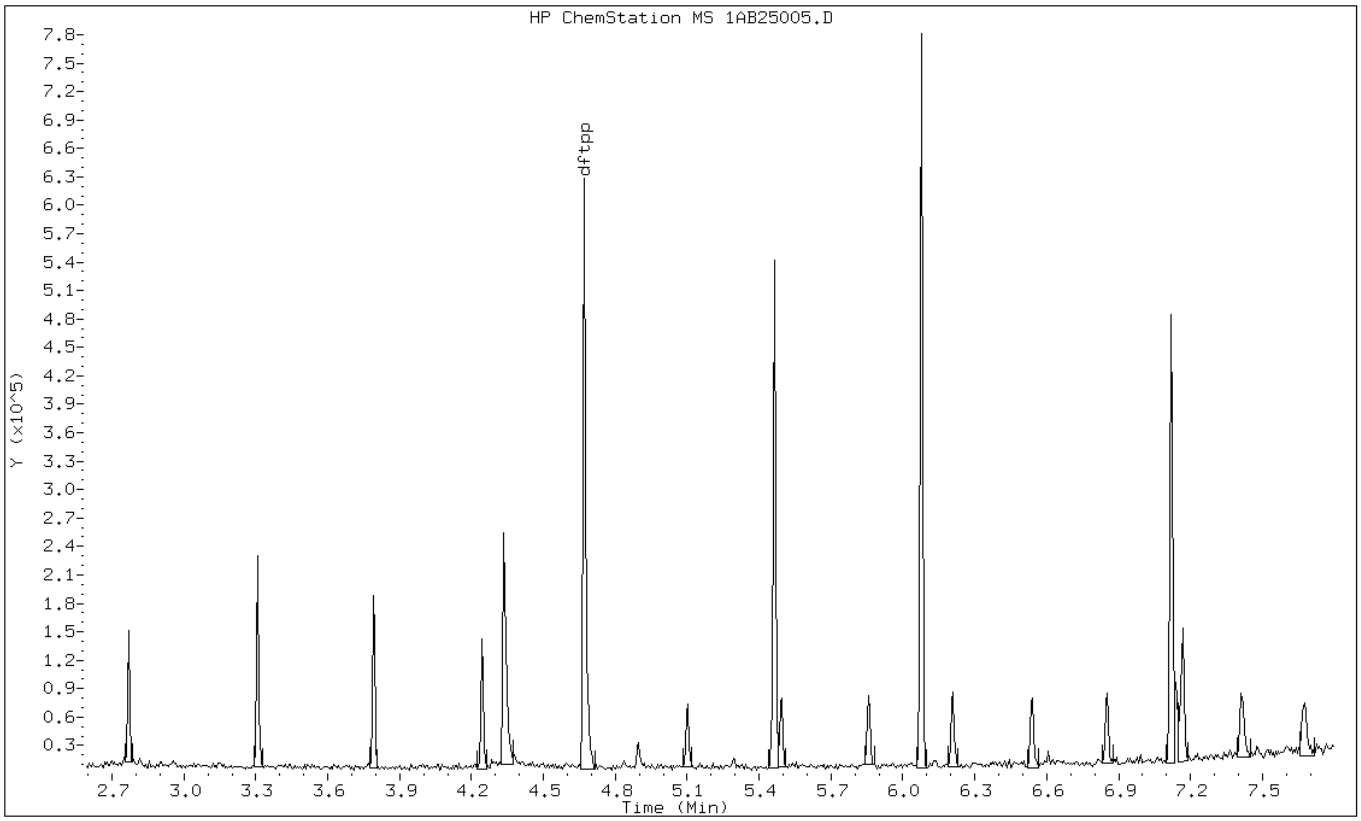
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.672	4.928	-0.256	198	57224			50.00- 0.00	100.00
4.672	4.928	-0.256	51	31544			10.00- 80.00	55.12
4.672	4.928	-0.256	68	0	0.0	0.0	0.00- 2.00	0.00
4.672	4.928	-0.256	69	29928			0.00- 0.00	52.30
4.672	4.928	-0.256	70	275			0.00- 2.00	0.92
4.672	4.928	-0.256	127	28272			10.00- 80.00	49.41
4.672	4.928	-0.256	197	0	0.0	0.0	0.00- 2.00	0.00
4.672	4.928	-0.256	442	39408			50.00- 0.00	68.87
4.672	4.928	-0.256	199	3837			5.00- 9.00	6.71
4.672	4.928	-0.256	275	15808			10.00- 60.00	27.62
4.672	4.928	-0.256	365	2316			1.00- 0.00	4.05
4.672	4.928	-0.256	441	5763			0.01- 99.99	72.55
4.672	4.928	-0.256	443	7944			15.00- 24.00	20.16

Data File: 1AB25005.D

Date: 25-FEB-2013 14:44

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



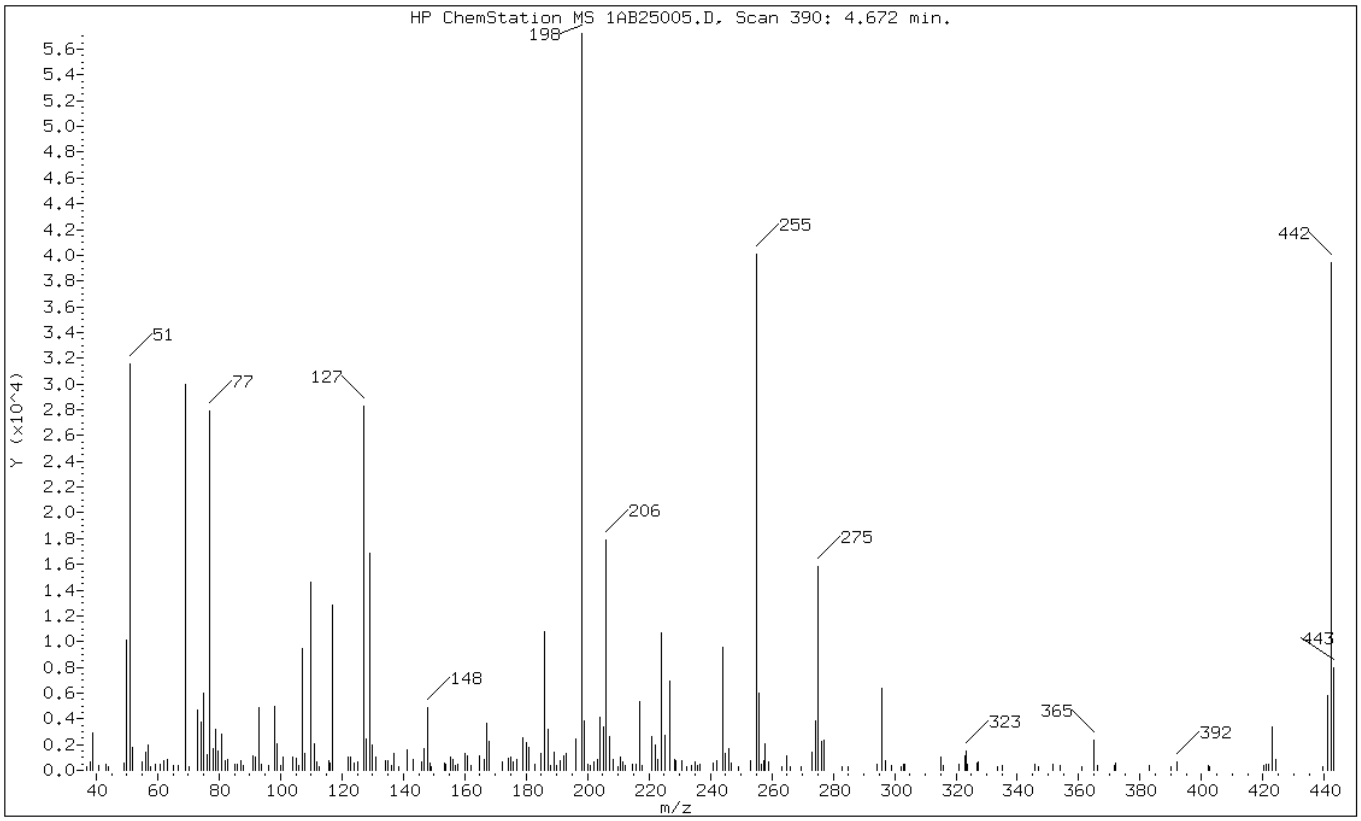
Data File: 1AB25005.D

Date: 25-FEB-2013 14:44

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	55.12
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.30
70	Less than 2.00% of mass 69	0.48 (0.92)
127	10.00 - 80.00% of mass 198	49.41
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	68.87
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	27.62
365	Greater than 1.00% of mass 198	4.05
441	Present, but less than mass 443	10.07
443	15.00 - 24.00% of mass 442	13.88 (20.16)

Data File: 1AB25005.D

Date: 25-FEB-2013 14:44

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25005.D
Spectrum: HP ChemStation MS 1AB25005.D, Scan 390: 4.672 min.
Location of Maximum: 198.00
Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	311	111.00	2038	189.00	1404	263.10	256
38.10	664	111.90	683	189.80	370	265.00	1083
39.00	2936	112.70	304	191.20	771	266.20	258
40.90	396	115.90	752	192.20	1098	269.70	254
43.00	438	116.20	571	193.20	1287	273.10	1375
43.90	318	117.00	12796	196.10	2419	274.10	3854
49.10	540	122.00	1020	198.00	57224	275.10	15808
50.00	10141	123.00	1077	199.00	3837	276.10	2270
51.00	31544	124.10	572	200.10	438	277.00	2354
52.00	1764	125.30	655	201.00	355	283.10	258
55.00	674	127.00	28272	202.10	642	285.00	277
56.00	1377	128.10	2411	203.20	884	294.10	422
56.90	1987	129.00	16840	204.00	4104	296.00	6396
57.80	287	130.00	1939	205.10	3340	296.90	713
59.10	487	130.90	1017	206.10	17912	299.10	333
61.00	492	134.10	786	207.10	2577	302.30	272
62.10	789	134.90	767	208.20	879	303.10	450
63.00	879	136.10	369	210.00	289	303.30	442
65.00	393	137.00	1322	210.90	1073	315.20	1007
66.90	367	138.50	284	211.50	665	315.90	338
69.00	29928	141.10	1633	212.30	372	321.00	454
70.10	275	143.20	864	214.80	452	322.90	1129
73.10	4691	146.10	656	216.00	472	323.20	1477
74.00	3736	146.90	1665	217.00	5319	323.80	464
75.00	6014	148.00	4906	217.90	375	326.90	581
76.10	1240	148.80	540	220.80	2658	327.20	648
77.00	27936	149.30	263	222.10	1988	333.70	320
78.00	1647	153.30	547	222.70	887	335.00	352
79.00	3152	153.90	468	224.10	10664	345.70	463
79.80	1492	155.20	1061	225.10	2761	346.80	254
81.00	2816	156.10	849	227.00	6900	351.70	472
82.00	735	157.10	377	228.20	801	354.10	345
83.00	856	157.90	476	228.80	746	361.00	319
85.00	431	160.00	1329	230.80	772	365.00	2316
85.80	342	160.90	1102	232.20	265	366.10	380
86.10	438	161.90	351	233.80	356	371.40	342
87.00	723	165.00	1120	235.10	688	372.10	538
88.00	417	166.20	879	235.90	352	382.90	347
91.20	1107	167.00	3637	236.60	424	390.10	309
92.00	1019	168.00	2220	241.00	549	391.80	664

93.00	4892	172.20	672	242.00	740	402.10	378
93.80	431	174.10	951	244.10	9522	402.70	262
96.20	375	175.10	1054	245.00	1354	420.20	379
98.00	4977	175.90	672	246.00	1650	421.00	512
99.00	2033	177.00	869	247.00	593	421.90	507
100.20	339	179.00	2572	249.00	276	423.00	3343
101.00	1056	180.10	2145	253.00	752	424.10	864
104.00	1058	181.00	1734	255.00	40064	439.30	262
105.00	891	182.80	470	256.00	5965	441.10	5763
105.90	407	184.90	1276	256.80	493	442.10	39408
107.00	9453	186.10	10731	257.30	757	443.00	7944
107.90	1291	187.10	3193	257.90	2069		
110.00	14597	188.10	387	259.00	643		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 11:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

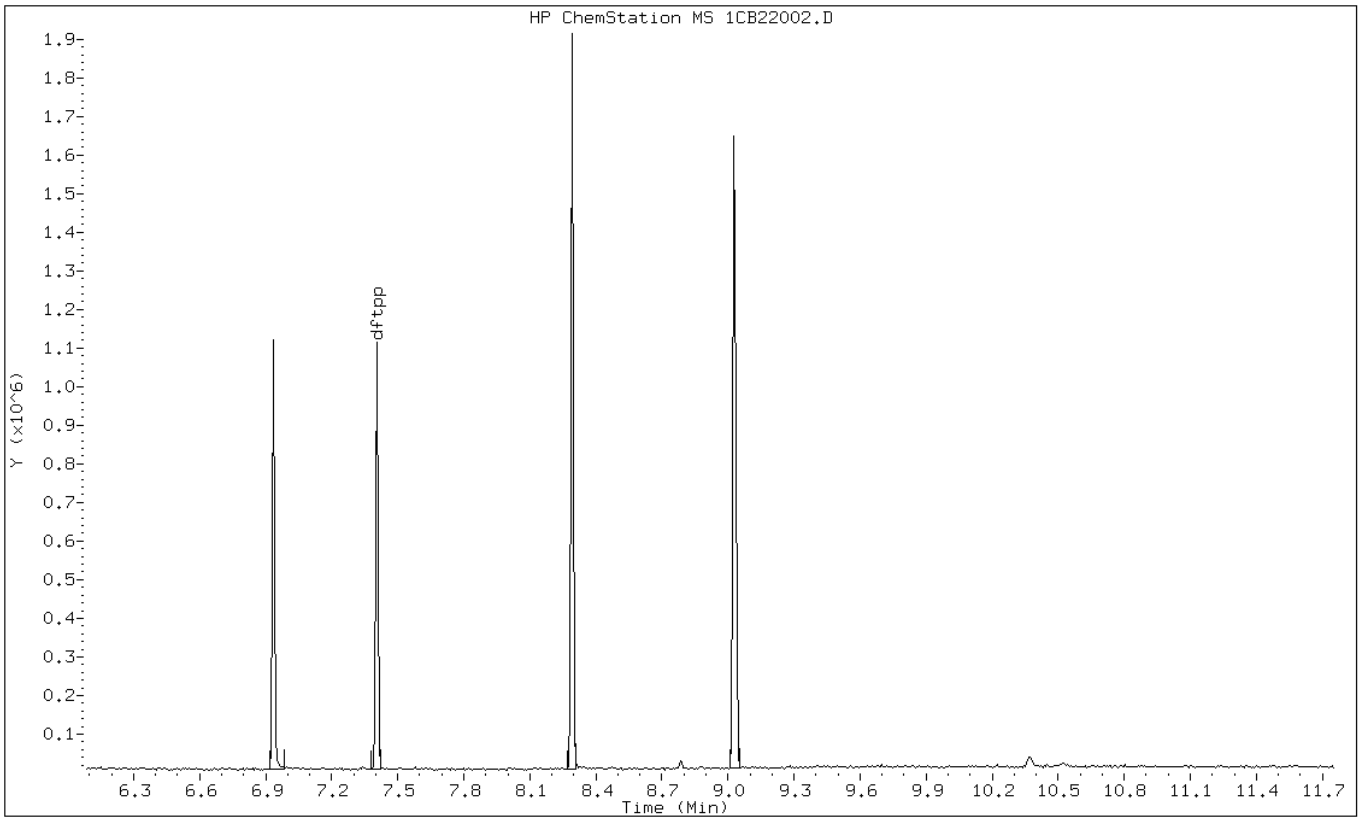
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.404	7.469	-0.065	198	73440			50.00- 0.00	100.00
7.404	7.469	-0.065	51	31096			10.00- 80.00	42.34
7.404	7.469	-0.065	68	471			0.00- 2.00	1.08
7.404	7.469	-0.065	69	43512			0.00- 0.00	59.25
7.404	7.469	-0.065	70	192			0.00- 2.00	0.44
7.404	7.469	-0.065	127	39368			10.00- 80.00	53.61
7.404	7.469	-0.065	197	733			0.00- 2.00	1.00
7.404	7.469	-0.065	442	38240			50.00- 0.00	52.07
7.404	7.469	-0.065	199	6330			5.00- 9.00	8.62
7.404	7.469	-0.065	275	14104			10.00- 60.00	19.20
7.404	7.469	-0.065	365	1462			1.00- 0.00	1.99
7.404	7.469	-0.065	441	5496			0.01- 99.99	86.06
7.404	7.469	-0.065	443	6386			15.00- 24.00	16.70

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



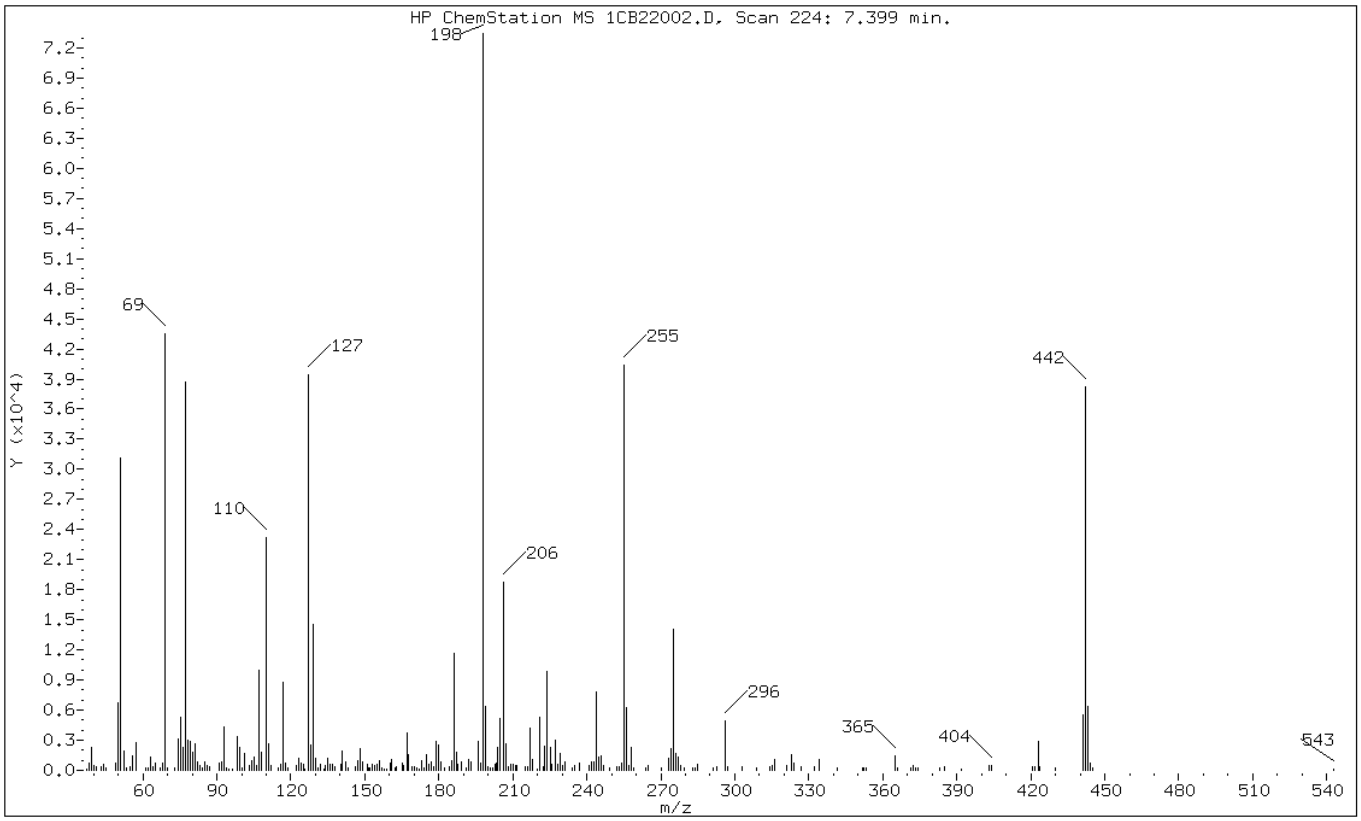
Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.34
68	Less than 2.00% of mass 69	0.64 (1.08)
69	Mass 69 relative abundance	59.25
70	Less than 2.00% of mass 69	0.26 (0.44)
127	10.00 - 80.00% of mass 198	53.61
197	Less than 2.00% of mass 198	1.00
442	Greater than 50.00% of mass 198	52.07
199	5.00 - 9.00% of mass 198	8.62
275	10.00 - 60.00% of mass 198	19.20
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	7.48
443	15.00 - 24.00% of mass 442	8.70 (16.70)

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22002.D
Spectrum: HP ChemStation MS 1CB22002.D, Scan 224: 7.399 min.
Location of Maximum: 198.00
Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	176	115.10	214	181.00	901	256.00	6303
38.10	755	116.00	605	182.10	220	256.90	429
39.10	2229	117.00	8730	184.00	307	257.90	2280
40.10	531	117.90	749	185.10	1015	258.90	258
41.10	318	119.00	225	186.10	11683	263.90	210
42.90	335	122.00	424	187.10	1756	265.00	509
44.00	648	123.00	1147	187.90	552	270.00	205
45.20	211	124.10	749	188.90	869	273.00	1169
49.10	738	125.10	635	191.00	237	274.00	2122
50.10	6757	125.80	170	192.00	1104	275.00	14104
51.10	31096	127.10	39368	193.10	865	275.90	1652
52.10	1930	128.10	2564	196.00	2872	277.00	1264
53.20	277	129.00	14531	196.90	733	277.90	505
55.00	369	129.80	1177	198.00	73440	279.70	194
56.00	1418	131.00	276	199.00	6330	283.00	190
57.00	2762	132.10	570	199.90	373	283.80	183
61.00	226	133.20	171	201.00	298	285.00	556
62.00	292	134.10	490	201.60	269	291.10	200
63.20	1348	135.10	1144	202.90	583	292.90	373
64.00	333	136.10	602	203.30	687	296.00	4941
65.10	737	137.00	557	204.00	2340	297.00	339
66.90	287	137.80	323	205.00	5123	302.90	397
67.80	471	140.10	644	206.10	18696	308.90	282
68.20	663	141.00	1972	207.10	2615	314.00	365
69.10	43512	142.00	851	208.00	418	315.10	502
70.00	192	143.10	211	209.00	555	316.10	1036
73.10	186	146.10	337	210.30	624	321.00	472
74.10	3155	147.00	919	210.90	494	323.00	1518
75.10	5232	148.00	2159	211.60	459	324.00	680
76.10	2236	149.00	790	214.90	324	327.10	397
77.10	38720	151.00	613	215.80	325	332.10	308
78.10	3056	151.70	298	217.00	4236	334.20	1026
79.10	2911	152.20	189	218.00	1088	341.30	184
80.00	1751	153.00	575	220.00	170	351.80	221
81.10	2627	154.10	436	221.10	5285	352.40	258
82.00	869	155.10	587	222.20	336	353.20	226
83.10	502	156.00	912	222.80	2398	364.90	1462
83.90	288	156.80	189	224.00	9837	365.90	266
85.00	785	158.00	151	225.10	2230	371.10	209
86.10	533	158.90	165	226.00	626	372.10	462

87.10	324	160.10	719	227.00	3030	373.10	210
91.10	726	160.90	1140	228.00	610	374.50	233
91.90	792	162.10	280	229.00	1664	383.20	274
93.10	4314	162.70	420	230.00	453	384.80	322
94.00	297	165.00	758	231.00	869	391.80	159
95.00	178	165.90	506	234.00	203	402.90	522
96.10	155	167.00	3698	234.90	491	404.10	524
98.10	3307	167.80	1598	236.90	687	420.90	334
99.10	2331	169.10	332	240.80	432	421.80	348
100.00	203	170.20	321	242.00	793	423.00	2839
101.00	1667	171.10	292	242.90	893	423.80	381
103.00	538	171.80	156	244.00	7817	430.10	181
104.10	935	173.20	904	245.00	1351	441.00	5496
105.10	1280	174.10	287	246.00	1390	442.00	38240
106.20	492	175.00	1609	246.80	435	443.10	6386
107.00	9992	176.00	544	249.00	291	444.00	706
108.00	1788	177.10	810	252.10	410	444.90	181
110.00	23216	177.80	349	252.90	317	542.80	156
111.10	2593	179.10	2922	253.90	662		
112.10	540	180.00	2572	255.00	40344		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 11:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\d-dftpp198.m
Meth Date : 10-Feb-2013 14:41 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

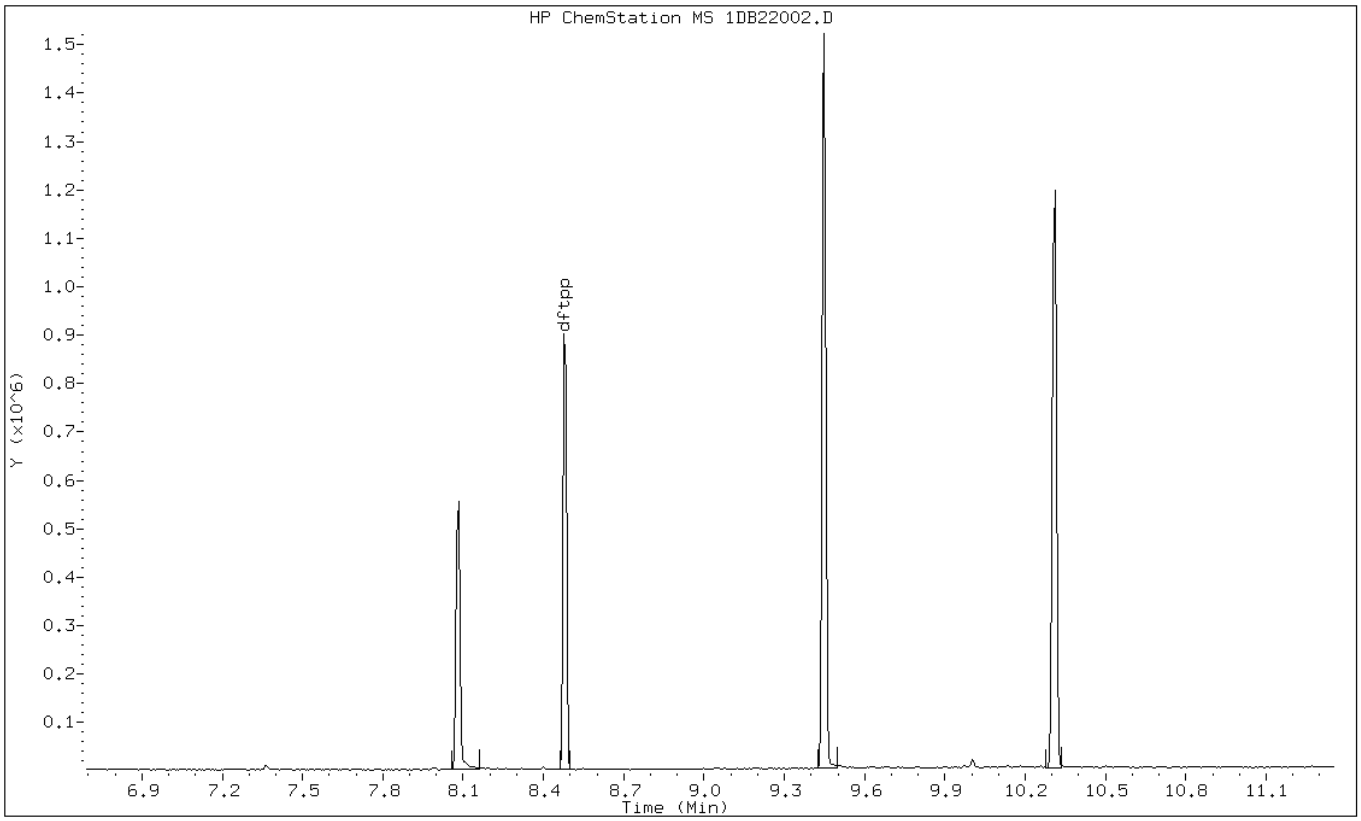
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.477	8.532	-0.055	198	100672			50.00- 0.00	100.00
8.477	8.532	-0.055	51	47200			10.00- 80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	69	46864			0.00- 0.00	46.55
8.477	8.532	-0.055	70	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	127	51248			10.00- 80.00	50.91
8.477	8.532	-0.055	197	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	442	64976			50.00- 0.00	64.54
8.477	8.532	-0.055	199	7983			5.00- 9.00	7.93
8.477	8.532	-0.055	275	25312			10.00- 60.00	25.14
8.477	8.532	-0.055	365	2913			1.00- 0.00	2.89
8.477	8.532	-0.055	441	10444			0.01- 99.99	78.40
8.477	8.532	-0.055	443	13322			15.00- 24.00	20.50

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1490607 | Operator: SCC



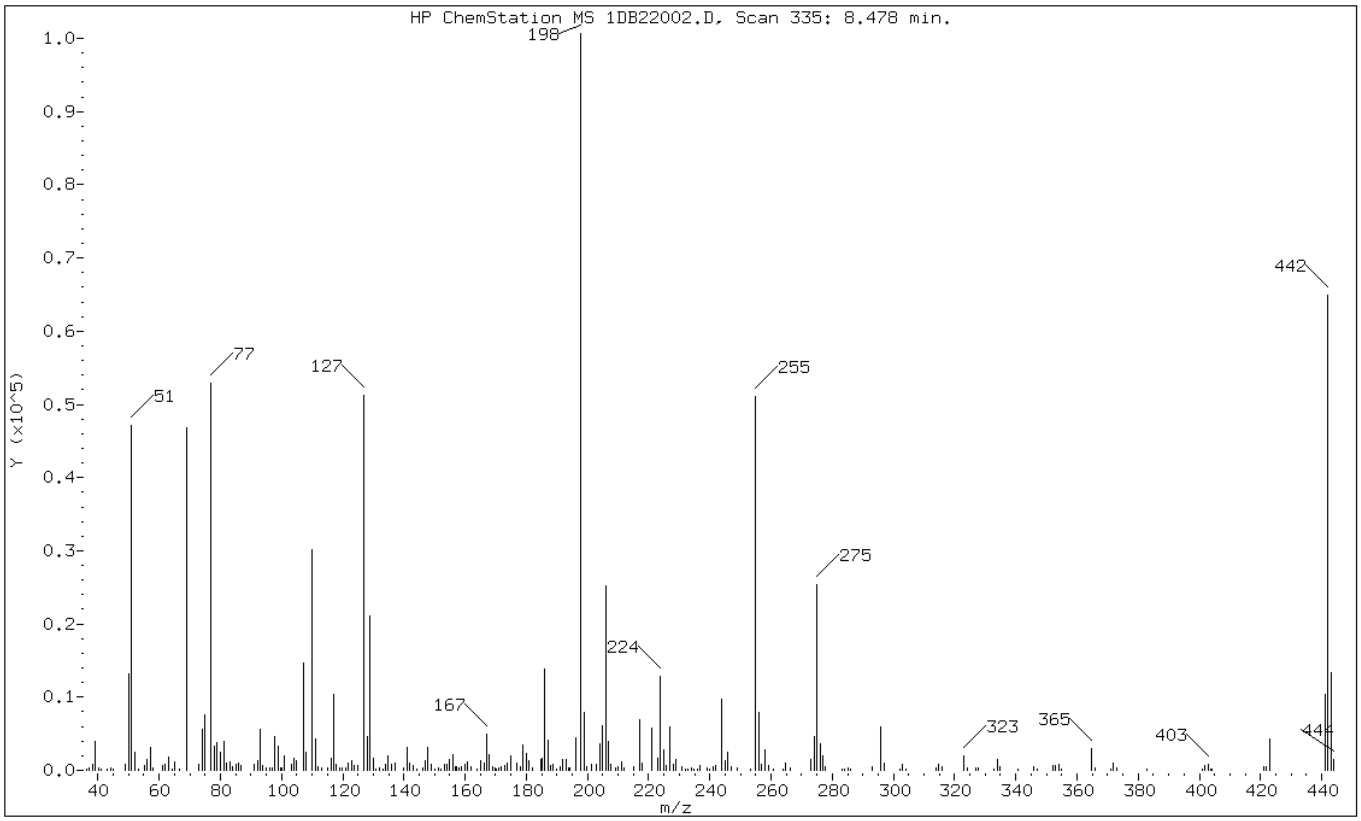
Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.88
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.55
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	64.54
199	5.00 - 9.00% of mass 198	7.93
275	10.00 - 60.00% of mass 198	25.14
365	Greater than 1.00% of mass 198	2.89
441	Present, but less than mass 443	10.37
443	15.00 - 24.00% of mass 442	13.23 (20.50)

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22002.D
Spectrum: HP ChemStation MS 1DB22002.D, Scan 335: 8.478 min.
Location of Maximum: 197.90
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	197	115.20	371	178.90	3443	257.00	823
37.00	283	116.10	1643	179.90	2267	257.90	2744
38.10	840	116.90	10345	180.90	1276	259.10	649
39.00	4029	117.90	808	182.10	256	260.60	181
40.10	307	118.90	290	184.90	1563	263.80	188
41.10	246	119.90	325	185.10	1576	264.90	958
43.00	222	120.80	293	186.00	13856	266.30	296
44.00	324	121.90	933	187.00	4060	273.10	1415
45.00	187	123.10	1272	188.00	700	274.00	4623
48.90	792	123.90	596	188.90	880	274.90	25312
50.00	13120	124.90	657	190.00	174	276.00	3568
51.00	47200	127.00	51248	191.10	471	276.90	1899
52.00	2399	128.10	4539	191.80	1499	277.90	482
53.20	206	129.00	21144	193.10	1492	283.10	239
55.10	588	129.90	1625	193.80	298	284.00	158
56.00	1454	130.90	232	194.10	273	285.10	390
57.00	3139	132.00	372	196.00	4461	285.90	196
58.00	280	133.10	193	197.90	100672	292.90	454
61.00	695	134.00	786	198.90	7983	295.90	5925
62.00	830	134.90	1968	199.80	431	296.90	1054
63.00	1811	136.00	819	201.40	803	302.00	199
64.10	190	137.00	946	202.90	742	303.00	877
65.00	1083	139.80	261	204.00	3564	304.10	237
66.80	165	140.90	3120	204.90	6035	314.00	370
69.00	46864	141.90	907	206.00	25272	314.90	811
73.00	834	143.00	599	207.00	3977	316.10	563
74.00	5603	144.10	205	207.80	855	323.00	2019
75.00	7619	146.20	403	209.00	292	324.00	399
77.00	52952	147.10	1400	209.90	465	326.80	356
78.10	3264	147.90	3115	211.10	1207	327.90	285
79.00	3723	149.00	769	211.80	371	333.00	245
80.00	2540	150.00	204	215.00	516	334.00	1434
81.00	3932	151.20	331	216.90	6871	334.90	449
82.00	1066	151.90	245	217.80	933	340.80	236
83.00	1122	152.20	196	221.00	5742	345.80	434
84.00	448	153.10	780	222.90	1718	346.90	155
85.00	839	154.10	760	223.90	12894	352.00	582
85.90	920	154.90	1455	225.00	2847	352.90	693
86.10	903	156.00	2222	225.80	583	354.10	794
86.90	664	156.80	423	226.90	5900	355.00	242

90.90	879	157.30	413
92.20	1301	158.00	406
92.90	5556	158.90	453
93.90	654	159.90	786
95.00	306	160.80	1173
96.00	333	161.90	523
96.80	249	163.80	175
97.90	4532	164.90	1380
99.00	3290	166.10	1007
99.90	302	167.00	4901
100.10	306	167.90	2117
101.00	1934	169.00	519
103.10	838	169.90	270
103.90	1680	170.30	232
104.90	1266	170.90	273
107.00	14642	171.80	412
107.90	2420	172.90	636
110.00	30136	173.90	999
111.00	4275	175.00	1902
112.00	423	176.70	1047
112.90	308	177.90	412

227.90	895	364.90	2913
229.00	1499	365.90	407
230.90	530	370.90	239
231.90	178	371.90	1022
233.00	190	373.00	407
234.00	288	382.90	223
234.80	220	401.00	178
235.80	168	401.90	599
236.80	623	403.00	796
239.10	325	403.80	179
240.00	221	404.00	178
241.00	419	421.00	483
242.00	691	422.00	527
244.00	9770	422.90	4204
245.00	1289	441.00	10444
245.90	2407	442.00	64976
246.90	412	443.00	13322
249.10	305	443.90	1486
253.20	215		
254.90	51056		
255.90	7928		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: | Lab Sample ID: MB 660-134712/1-A

Matrix: Solid | Lab File ID: 1CB22011.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/21/2013 12:14

Sample wt/vol: 15.42(g) | Date Analyzed: 02/22/2013 14:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134776 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22011.D
Lab Smp Id: mb 660-134712/1-a
Inj Date : 22-FEB-2013 14:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134712/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 11 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.420	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

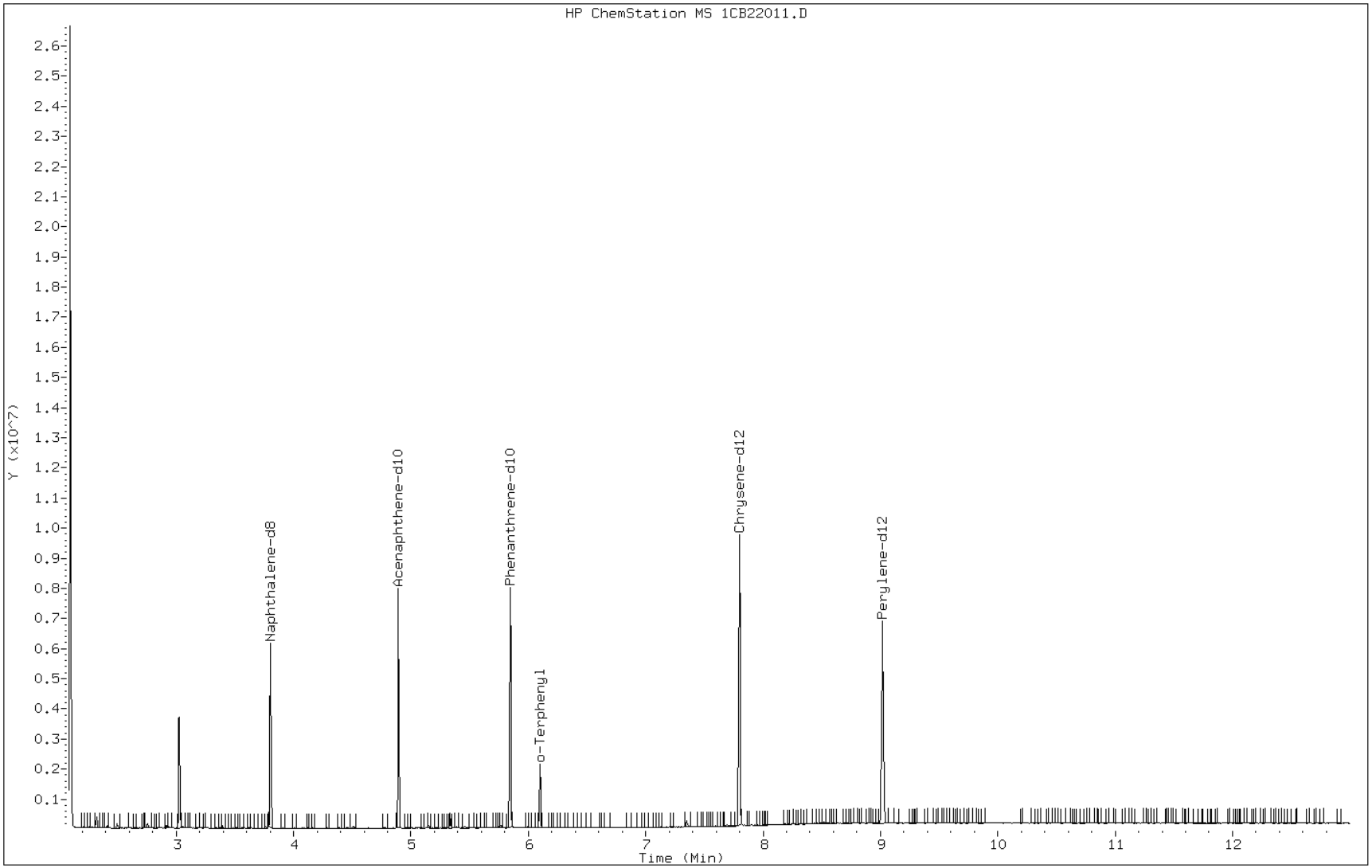
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1406557	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1068093	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2055482	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	272374	8.77655	569.1669
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2590099	40.0000	
* 23 Perylene-d12	264	9.021	9.016	(1.000)	2734541	40.0000	

Data File: 1CB22011.D

Date: 22-FEB-2013 14:26

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134712/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87545-2
SDG No.: 68087545-2
Client Sample ID:
Lab Sample ID: MB 660-134730/1-A
Matrix: Solid
Lab File ID: 1DB22011.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/21/2013 16:21
Sample wt/vol: 15.35(g)
Date Analyzed: 02/22/2013 15:33
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134781
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	U	98	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22011.D
Lab Smp Id: MB 660-134730/1-A
Inj Date : 22-FEB-2013 15:33
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-134730/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 11 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.350	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

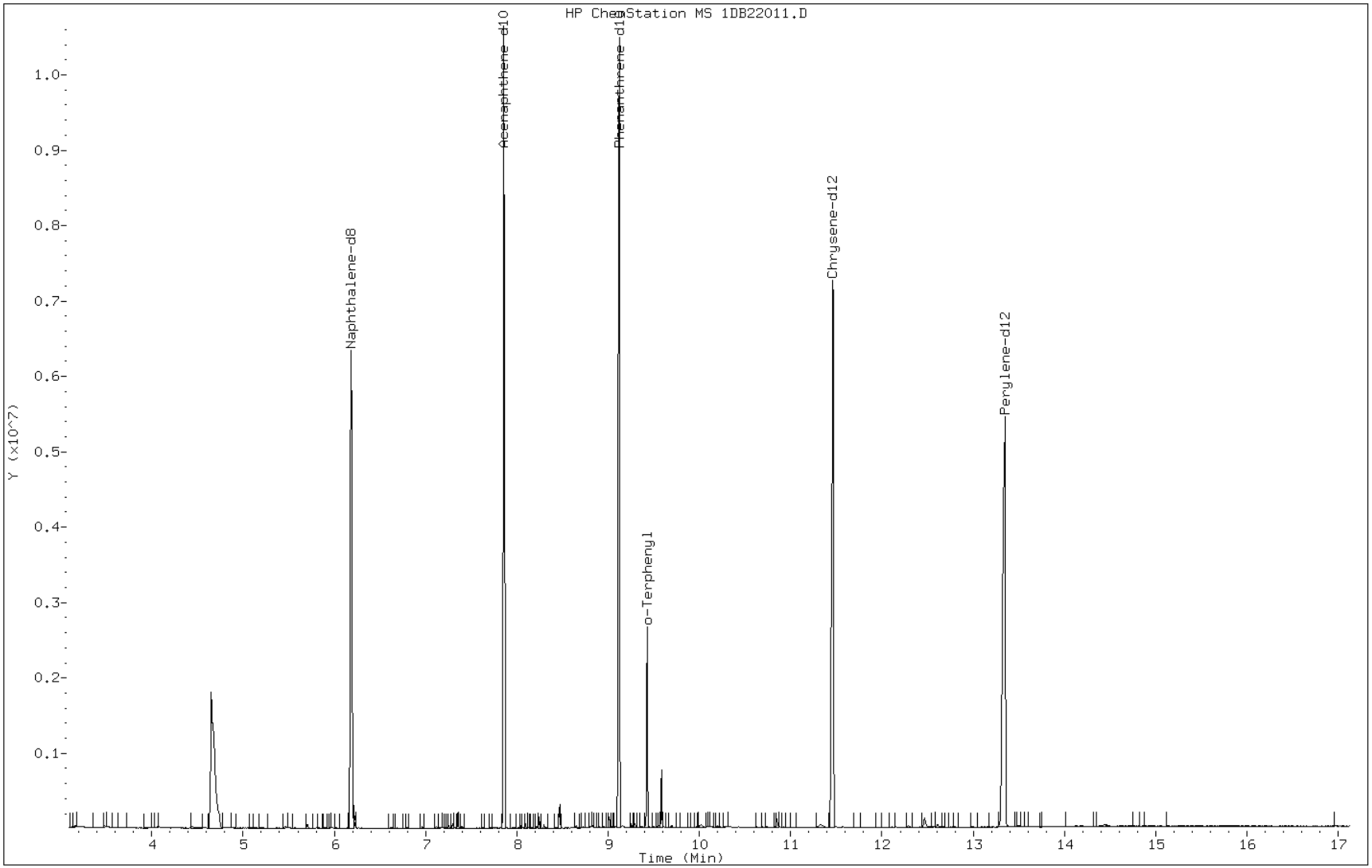
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.183	6.188	(1.000)	3552318	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.856	(1.000)	2143310	40.0000	
* 9 Phenanthrene-d10	188	9.121	9.114	(1.000)	3483854	40.0000	
$ 13 o-Terphenyl	230	9.426	9.431	(1.033)	406331	7.54219	490
* 17 Chrysene-d12	240	11.459	11.464	(1.000)	3539719	40.0000	
* 22 Perylene-d12	264	13.345	13.344	(1.000)	3703706	40.0000	

Data File: 1DB22011.D

Date: 22-FEB-2013 15:33

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-134730/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87545-2
SDG No.: 68087545-2
Client Sample ID:
Lab Sample ID: LCS 660-134712/2-A
Matrix: Solid
Lab File ID: 1CB22012.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/21/2013 12:14
Sample wt/vol: 15.39(g)
Date Analyzed: 02/22/2013 14:45
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134776
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	499		97	19
208-96-8	Acenaphthylene	491		39	4.9
120-12-7	Anthracene	491		8.2	4.1
56-55-3	Benzo[a]anthracene	505		7.8	3.8
50-32-8	Benzo[a]pyrene	466		10	5.1
205-99-2	Benzo[b]fluoranthene	472		12	5.9
191-24-2	Benzo[g,h,i]perylene	508		19	4.3
207-08-9	Benzo[k]fluoranthene	544		7.8	3.5
218-01-9	Chrysene	474		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	527		19	4.0
206-44-0	Fluoranthene	515		19	3.9
86-73-7	Fluorene	490		19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	466		19	6.9
90-12-0	1-Methylnaphthalene	517		39	4.3
91-57-6	2-Methylnaphthalene	492		39	6.9
91-20-3	Naphthalene	501		39	4.3
85-01-8	Phenanthrene	486		7.8	3.8
129-00-0	Pyrene	494		19	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22012.D
Lab Smp Id: lcs 660-134712/2-a
Inj Date : 22-FEB-2013 14:45
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134712/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1346104	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1065240	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2030307	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	254424	8.29982	539.2992
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2618435	40.0000	
* 23 Perylene-d12	264	9.015	9.016	(1.000)	2799637	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	270173	7.70950	500.9420
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	177151	7.57833	492.4189
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	169504	7.96169	517.3289
5 Acenaphthylene	152	4.804	4.804	(0.982)	324739	7.56137	491.3168
7 Acenaphthene	154	4.910	4.910	(1.004)	205091	7.68302	499.2218
9 Fluorene	166	5.233	5.234	(1.070)	254622	7.54224	490.0739
11 Phenanthrene	178	5.863	5.863	(1.003)	438831	7.47487	485.6965
12 Anthracene	178	5.898	5.898	(1.009)	434239	7.56309	491.4286

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.004	6.004	(1.027)	406856	7.97156	517.9701
15 Fluoranthene	202	6.704	6.704	(1.147)	509256	7.92101	514.6853
16 Pyrene	202	6.874	6.875	(0.882)	534472	7.59553	493.5365
17 Benzo(a)anthracene	228	7.786	7.792	(0.998)	587447	7.77323	505.0831
19 Chrysene	228	7.815	7.822	(1.002)	551334	7.28990	473.6776
20 Benzo(b)fluoranthene	252	8.651	8.657	(0.960)	531587	7.26560	472.0987
21 Benzo(k)fluoranthene	252	8.674	8.680	(0.962)	628042	8.36766	543.7077
22 Benzo(a)pyrene	252	8.957	8.963	(0.993)	509980	7.17603	466.2790
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.239	(1.135)	479936	7.17886	466.4629(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.257	(1.136)	530357	8.11035	526.9881
26 Benzo(g,h,i)perylene	276	10.598	10.610	(1.175)	547142	7.82359	508.3552

QC Flag Legend

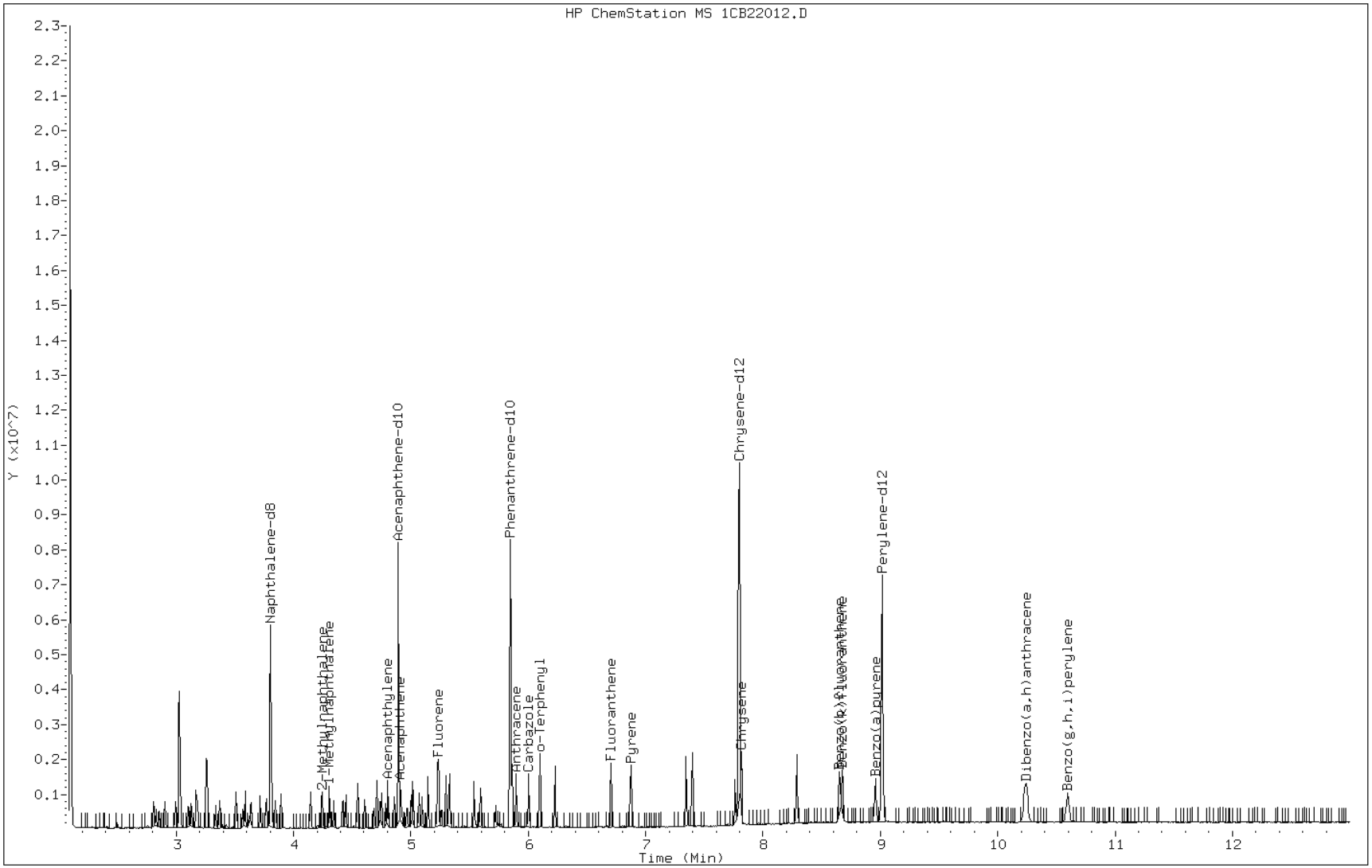
M - Compound response manually integrated.

Data File: 1CB22012.D

Date: 22-FEB-2013 14:45

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-134712/2-a Operator: SCC



Manual Integration Report

Data File: 1CB22012.D
Inj. Date and Time: 22-FEB-2013 14:45
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

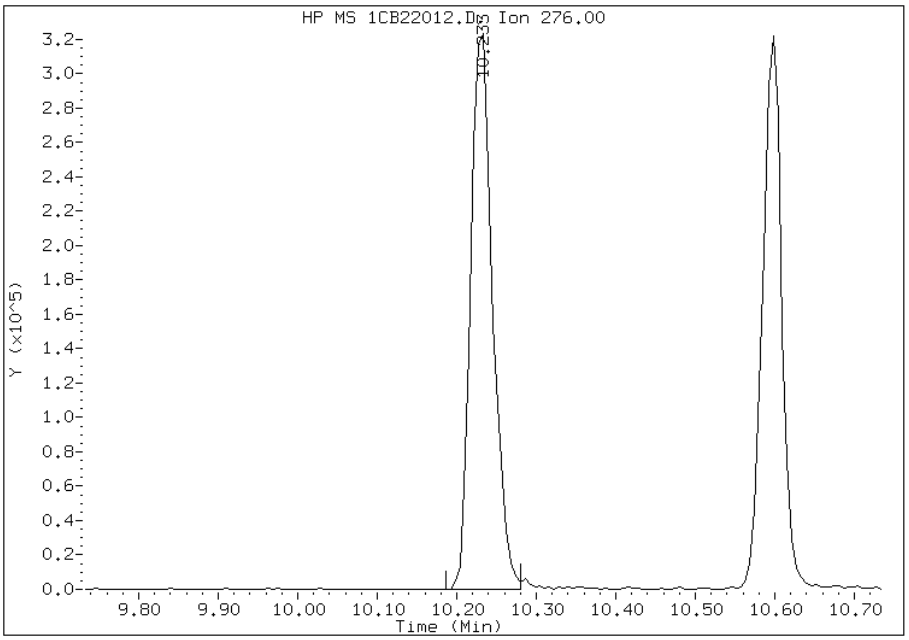
Processing Integration Results

RT: 10.23

Response: 616070

Amount: 9

Conc: 599



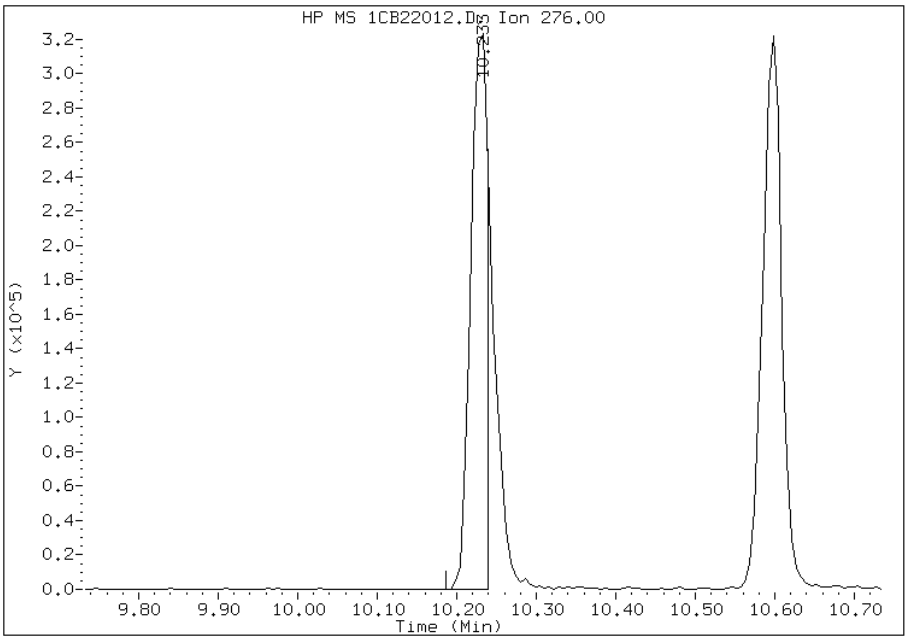
Manual Integration Results

RT: 10.23

Response: 479936

Amount: 7

Conc: 466



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 10:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87545-2
SDG No.: 68087545-2
Client Sample ID:
Lab Sample ID: LCS 660-134730/2-A
Matrix: Solid
Lab File ID: 1DB22012.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/21/2013 16:21
Sample wt/vol: 15.18(g)
Date Analyzed: 02/22/2013 15:56
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134781
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	450		99	20
208-96-8	Acenaphthylene	469		40	4.9
120-12-7	Anthracene	477		8.3	4.2
56-55-3	Benzo[a]anthracene	512		7.9	3.9
50-32-8	Benzo[a]pyrene	453		10	5.1
205-99-2	Benzo[b]fluoranthene	487		12	6.0
191-24-2	Benzo[g,h,i]perylene	483		20	4.3
207-08-9	Benzo[k]fluoranthene	490		7.9	3.6
218-01-9	Chrysene	461		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	509		20	4.1
206-44-0	Fluoranthene	496		20	4.0
86-73-7	Fluorene	475		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	461		20	7.0
90-12-0	1-Methylnaphthalene	480		40	4.3
91-57-6	2-Methylnaphthalene	464		40	7.0
91-20-3	Naphthalene	446		40	4.3
85-01-8	Phenanthrene	467		7.9	3.9
129-00-0	Pyrene	470		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22012.D
Lab Smp Id: LCS 660-134730/2-A
Inj Date : 22-FEB-2013 15:56
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-134730/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.180	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.185	6.188	(1.000)	3855597	40.0000	
* 6 Acenaphthene-d10	164	7.859	7.856	(1.000)	2318262	40.0000	
* 9 Phenanthrene-d10	188	9.117	9.114	(1.000)	3782158	40.0000	
$ 13 o-Terphenyl	230	9.422	9.431	(1.034)	449997	7.69392	510
* 17 Chrysene-d12	240	11.461	11.464	(1.000)	3839785	40.0000	
* 22 Perylene-d12	264	13.341	13.344	(1.000)	4000393	40.0000	
2 Naphthalene	128	6.202	6.205	(1.003)	697837	6.76593	440
3 2-Methylnaphthalene	142	6.901	6.910	(1.116)	462584	7.04075	460
4 1-Methylnaphthalene	142	6.995	6.999	(1.131)	448446	7.28890	480
5 Acenaphthylene	152	7.724	7.733	(0.983)	727462	7.11757	470
7 Acenaphthene	154	7.883	7.886	(1.003)	425548	6.82866	450
8 Fluorene	166	8.323	8.326	(1.059)	525239	7.21375	480
10 Phenanthrene	178	9.134	9.137	(1.002)	761768	7.09526	470
11 Anthracene	178	9.175	9.184	(1.006)	777293	7.23608	480(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.305	9.313	(1.021)	721854	7.51713	500(M)
14 Fluoranthene	202	10.115	10.124	(1.110)	842802	7.52225	500
15 Pyrene	202	10.303	10.312	(0.899)	849520	7.13243	470
16 Benzo(a)anthracene	228	11.437	11.446	(0.998)	817696	7.77833	510
18 Chrysene	228	11.484	11.499	(1.002)	759218	6.99544	460
19 Benzo(b)fluoranthene	252	12.771	12.792	(0.957)	761292	7.39339	490
20 Benzo(k)fluoranthene	252	12.812	12.839	(0.960)	801716	7.43622	490
21 Benzo(a)pyrene	252	13.229	13.262	(0.992)	700258	6.87224	450
23 Indeno(1,2,3-cd)pyrene	276	14.951	14.995	(1.121)	761294	7.00089	460(H)
24 Dibenzo(a,h)anthracene	278	14.986	15.030	(1.123)	776153	7.72859	510
25 Benzo(g,h,i)perylene	276	15.409	15.465	(1.155)	760545	7.33555	480(H)

QC Flag Legend

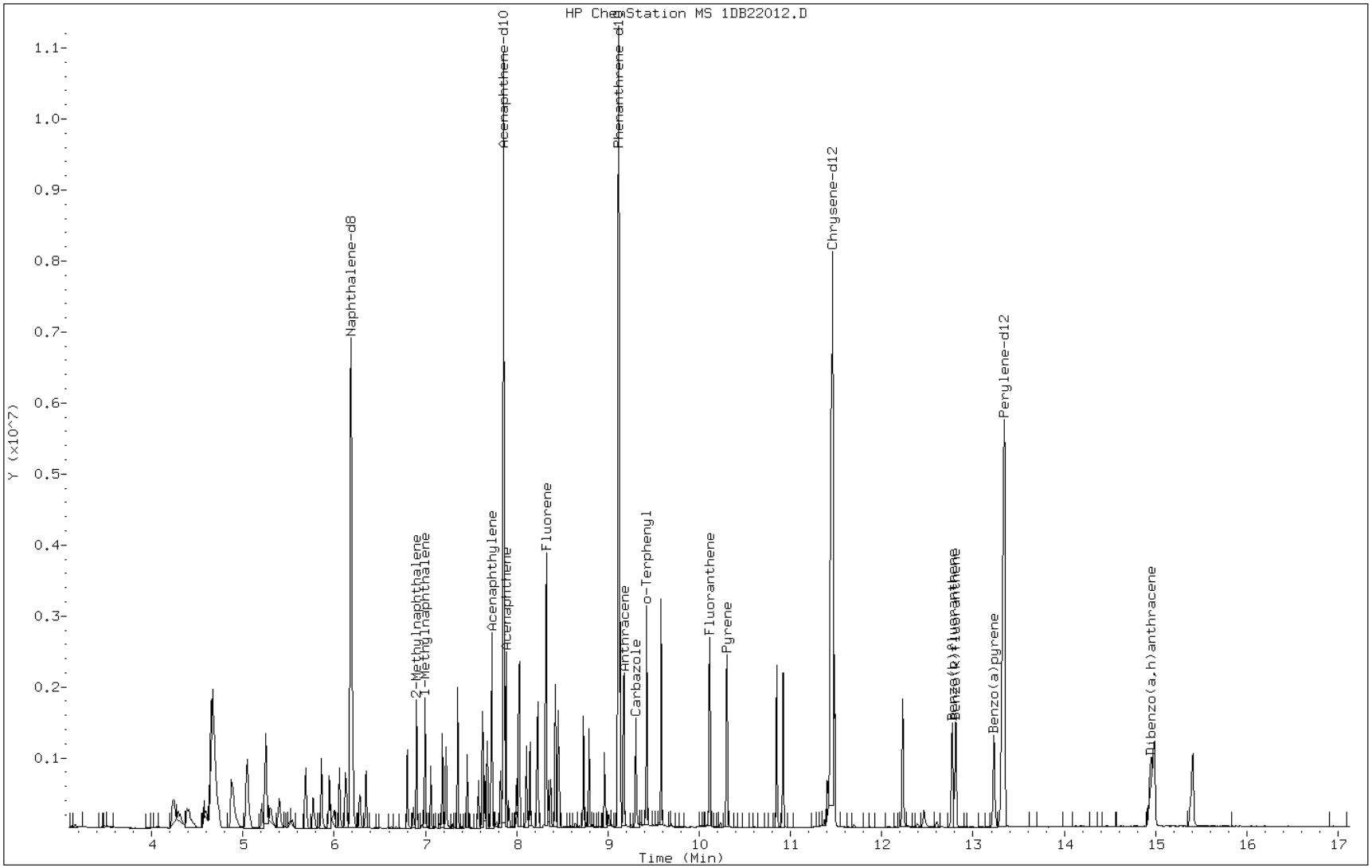
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22012.D

Date: 22-FEB-2013 15:56

Client ID: Instrument: BSMSD.i

Sample Info: LCS 660-134730/2-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87545-2
SDG No.: 68087545-2
Client Sample ID:
Lab Sample ID: 680-87545-A-1-B MS
Matrix: Solid
Lab File ID: 1CB22014.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/21/2013 12:14
Sample wt/vol: 15.42(g)
Date Analyzed: 02/22/2013 15:21
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 9.5
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134776
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	619		430	86
208-96-8	Acenaphthylene	620		170	21
120-12-7	Anthracene	793		36	18
56-55-3	Benzo[a]anthracene	1740		34	17
50-32-8	Benzo[a]pyrene	1580		45	22
205-99-2	Benzo[b]fluoranthene	2340		52	26
191-24-2	Benzo[g,h,i]perylene	1250		86	19
207-08-9	Benzo[k]fluoranthene	1230		34	15
218-01-9	Chrysene	1760		39	19
53-70-3	Dibenz(a,h)anthracene	769		86	18
206-44-0	Fluoranthene	2990		86	17
86-73-7	Fluorene	629		86	18
193-39-5	Indeno[1,2,3-cd]pyrene	1260		86	31
90-12-0	1-Methylnaphthalene	853		170	19
91-57-6	2-Methylnaphthalene	816		170	31
91-20-3	Naphthalene	743		170	19
85-01-8	Phenanthrene	1490		34	17
129-00-0	Pyrene	2600		86	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22014.D
Lab Smp Id: 680-87545-a-1-b ms
Inj Date : 22-FEB-2013 15:21
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87545-a-1-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 14 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.420	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1521773	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1223502	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2332357	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	83573	2.37325	615.6284
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2866063	40.0000	
* 23 Perylene-d12	264	9.015	9.016	(1.000)	2845732	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	102667	2.59146	672.2323
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	75213	2.84611	738.2901
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	71662	2.97744	772.3582
5 Acenaphthylene	152	4.804	4.804	(0.982)	106722	2.16353	561.2265
7 Acenaphthene	154	4.910	4.910	(1.004)	66162	2.15793	559.7738
9 Fluorene	166	5.233	5.234	(1.070)	85152	2.19605	569.6623
11 Phenanthrene	178	5.863	5.863	(1.003)	350880	5.20273	1349.6068(R)
12 Anthracene	178	5.898	5.898	(1.009)	182374	2.76503	717.2581

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.004	6.004	(1.027)	149617	2.55182	661.9510
15 Fluoranthene	202	6.704	6.704	(1.147)	770673	10.4347	2706.8036(R)
16 Pyrene	202	6.874	6.875	(0.882)	697445	9.05522	2348.9544(R)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	502435	6.07392	1575.5941(R)
19 Chrysene	228	7.815	7.822	(1.002)	507080	6.12547	1588.9669(R)
20 Benzo(b)fluoranthene	252	8.651	8.657	(0.960)	607594	8.16993	2119.3071(R)
21 Benzo(k)fluoranthene	252	8.674	8.680	(0.962)	328167	4.30148	1115.8188(R)
22 Benzo(a)pyrene	252	8.956	8.963	(0.993)	397622	5.50439	1427.8582(R)
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.239	(1.134)	297775	4.38196	1136.6952(RM)
25 Dibenzo(a,h)anthracene	278	10.250	10.257	(1.137)	178400	2.68395	696.2245
26 Benzo(g,h,i)perylene	276	10.598	10.610	(1.175)	309513	4.35404	1129.4528(R)

QC Flag Legend

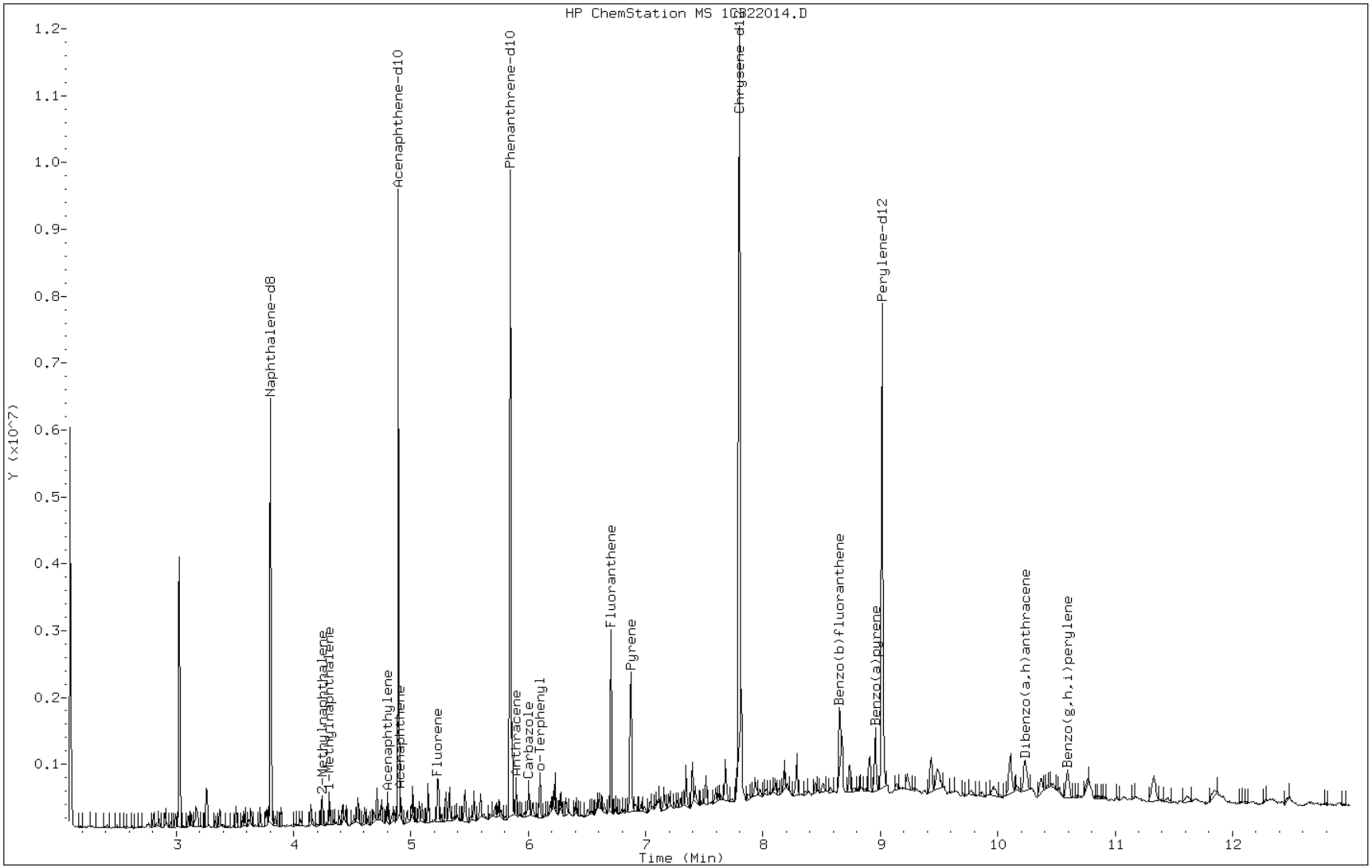
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB22014.D

Date: 22-FEB-2013 15:21

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87545-a-1-b ms Operator: SCC



Manual Integration Report

Data File: 1CB22014.D
Inj. Date and Time: 22-FEB-2013 15:21
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

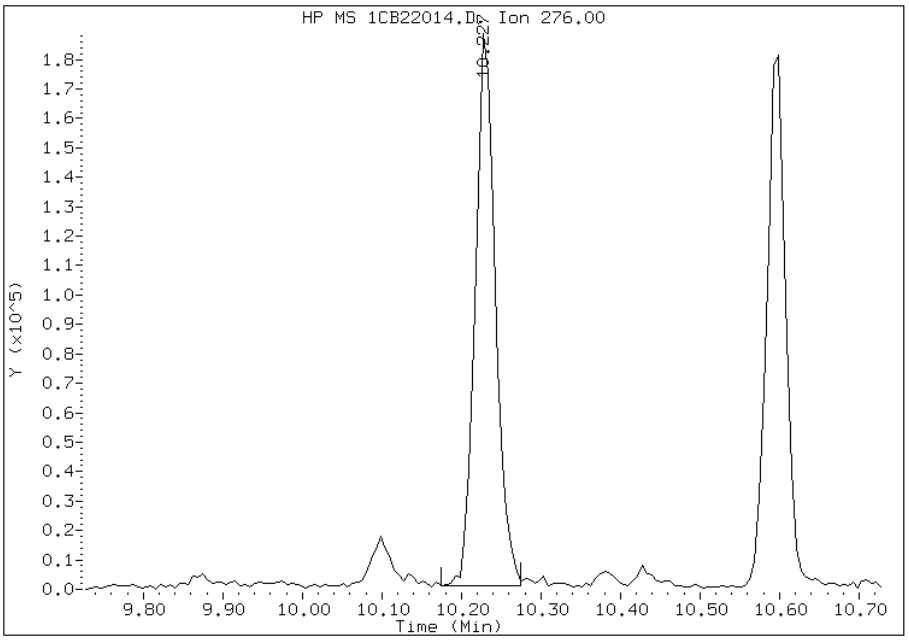
Processing Integration Results

RT: 10.23

Response: 329093

Amount: 5

Conc: 1256



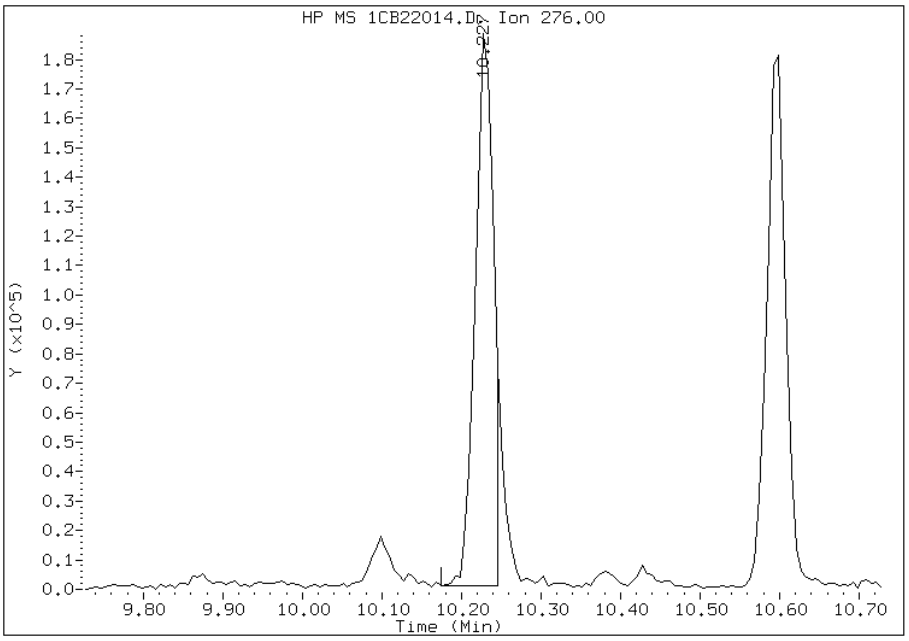
Manual Integration Results

RT: 10.23

Response: 297775

Amount: 4

Conc: 1137



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 10:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161W-CS MS | Lab Sample ID: 680-87545-34 MS

Matrix: Solid | Lab File ID: 1DB22019.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 13:00

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 14.96(g) | Date Analyzed: 02/22/2013 18:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 3.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	593		420	83
208-96-8	Acenaphthylene	645		170	21
120-12-7	Anthracene	643		35	17
56-55-3	Benzo[a]anthracene	785		33	16
50-32-8	Benzo[a]pyrene	672		43	22
205-99-2	Benzo[b]fluoranthene	753		51	25
191-24-2	Benzo[g,h,i]perylene	635		83	18
207-08-9	Benzo[k]fluoranthene	701		33	15
218-01-9	Chrysene	748		37	19
53-70-3	Dibenz(a,h)anthracene	660		83	17
206-44-0	Fluoranthene	792		83	17
86-73-7	Fluorene	645		83	17
193-39-5	Indeno[1,2,3-cd]pyrene	650		83	30
90-12-0	1-Methylnaphthalene	680		170	18
91-57-6	2-Methylnaphthalene	667		170	30
91-20-3	Naphthalene	635		170	18
85-01-8	Phenanthrene	751		33	16
129-00-0	Pyrene	748		83	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	94		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22019.D
Lab Smp Id: 680-87545-A-34-B MS
Inj Date : 22-FEB-2013 18:49
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-34-B MS
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 19 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.186	6.188	(1.000)	3316074	40.0000	
* 6 Acenaphthene-d10	164	7.860	7.856	(1.000)	1973715	40.0000	
* 9 Phenanthrene-d10	188	9.117	9.114	(1.000)	3247500	40.0000	
$ 13 o-Terphenyl	230	9.423	9.431	(1.034)	117629	2.34230	630
* 17 Chrysene-d12	240	11.462	11.464	(1.000)	3275874	40.0000	
* 22 Perylene-d12	264	13.348	13.344	(1.000)	3474248	40.0000	
2 Naphthalene	128	6.203	6.205	(1.003)	203435	2.29333	610
3 2-Methylnaphthalene	142	6.902	6.910	(1.116)	136005	2.40686	640
4 1-Methylnaphthalene	142	6.996	6.999	(1.131)	129919	2.45523	660
5 Acenaphthylene	152	7.725	7.733	(0.983)	202643	2.32880	620
7 Acenaphthene	154	7.884	7.886	(1.003)	113610	2.14132	570
8 Fluorene	166	8.324	8.326	(1.059)	144274	2.32740	620
10 Phenanthrene	178	9.135	9.137	(1.002)	249840	2.71018	720
11 Anthracene	178	9.170	9.184	(1.006)	214123	2.32152	620

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.311	9.313	(1.021)	191221	2.31915	620
14 Fluoranthene	202	10.116	10.124	(1.110)	274920	2.85772	760
15 Pyrene	202	10.304	10.312	(0.899)	274286	2.69928	720
16 Benzo(a)anthracene	228	11.444	11.446	(0.998)	254083	2.83302	760
18 Chrysene	228	11.485	11.499	(1.002)	249866	2.69858	720
19 Benzo(b)fluoranthene	252	12.772	12.792	(0.957)	243119	2.71865	730(H)
20 Benzo(k)fluoranthene	252	12.813	12.839	(0.960)	237034	2.53154	680(H)
21 Benzo(a)pyrene	252	13.236	13.262	(0.992)	214809	2.42736	650
23 Indeno(1,2,3-cd)pyrene	276	14.952	14.995	(1.120)	221687	2.34738	630(MH)
24 Dibenzo(a,h)anthracene	278	14.987	15.030	(1.123)	207676	2.38112	640(H)
25 Benzo(g,h,i)perylene	276	15.410	15.465	(1.154)	206451	2.29280	610(H)

QC Flag Legend

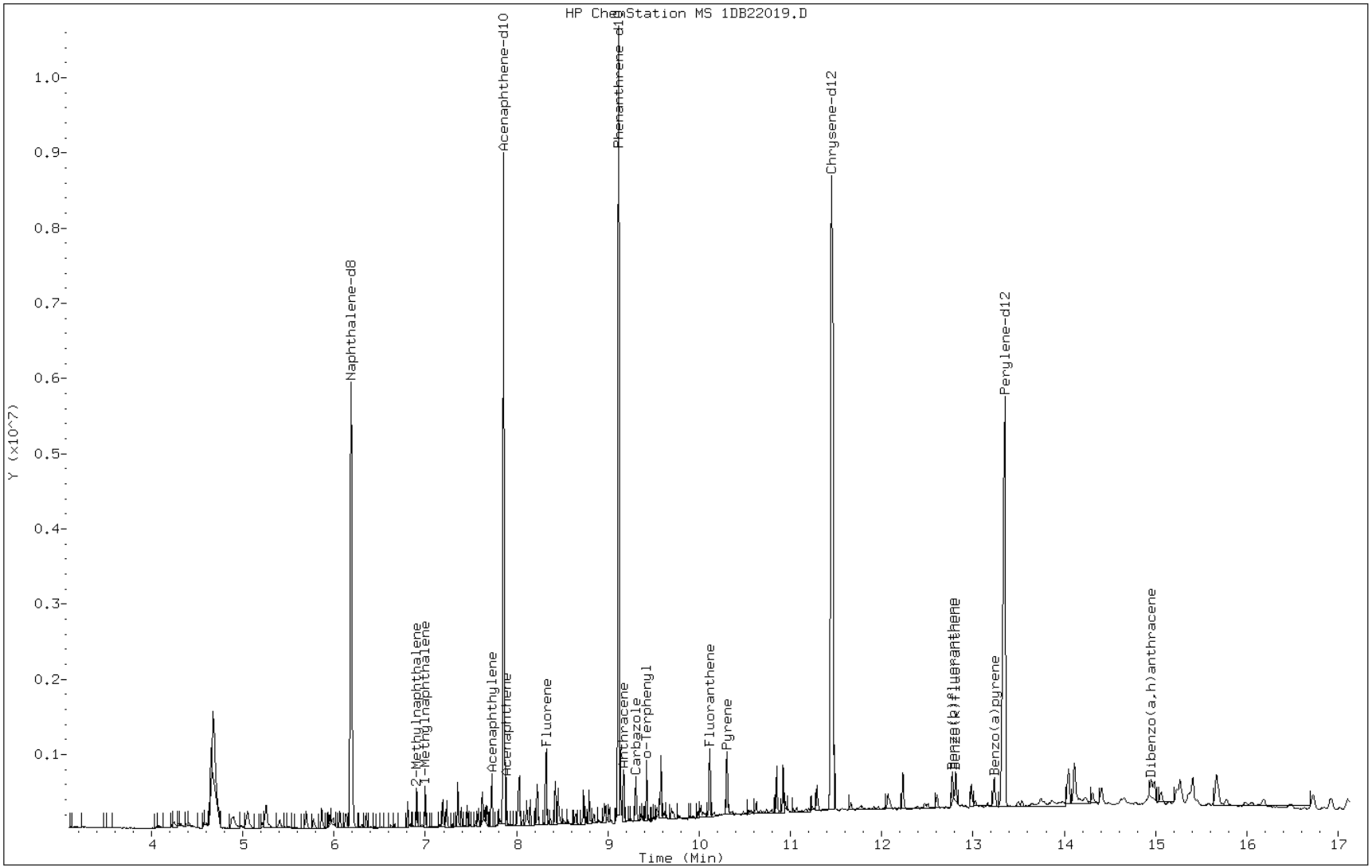
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22019.D

Date: 22-FEB-2013 18:49

Client ID: Instrument: BSMSD.i

Sample Info: 680-87545-A-34-B MS Operator: SCC



Manual Integration Report

Data File: 1DB22019.D
Inj. Date and Time: 22-FEB-2013 18:49
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

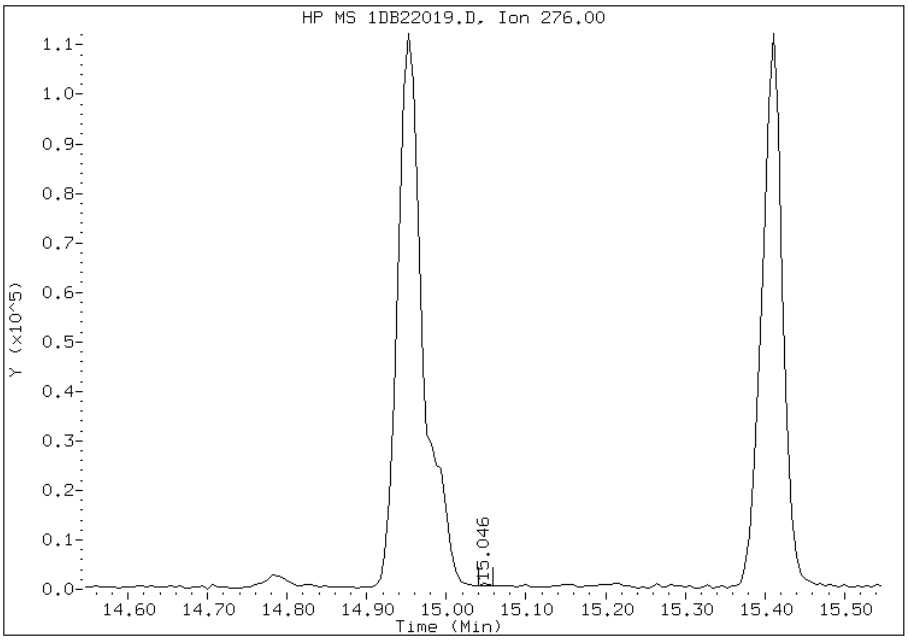
Processing Integration Results

RT: 15.05

Response: 372

Amount: 0

Conc: 1



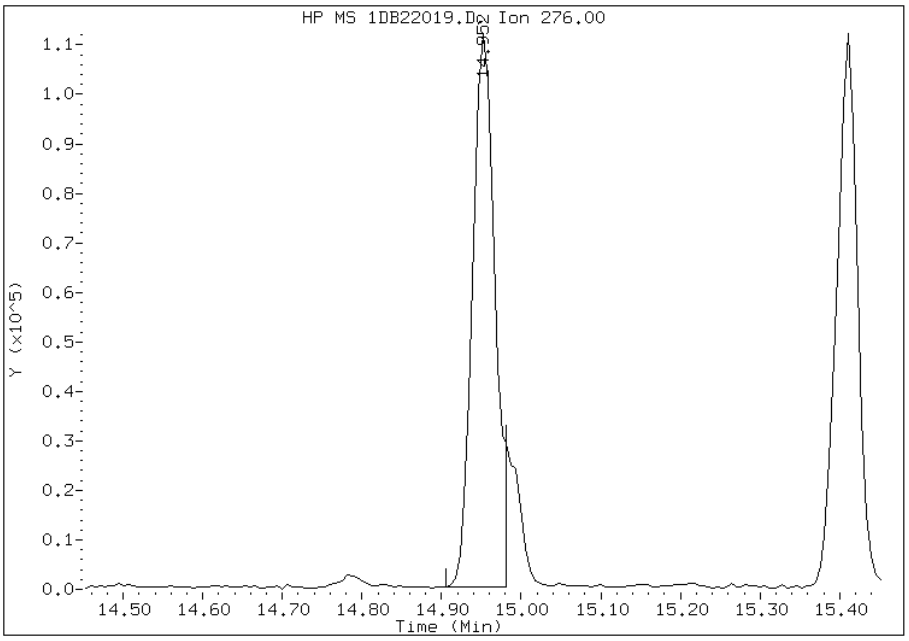
Manual Integration Results

RT: 14.95

Response: 221687

Amount: 2

Conc: 628



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 15:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87545-2
SDG No.: 68087545-2
Client Sample ID:
Lab Sample ID: 680-87545-A-1-C MSD
Matrix: Solid
Lab File ID: 1CB22015.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/21/2013 12:14
Sample wt/vol: 15.42(g)
Date Analyzed: 02/22/2013 15:40
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 9.5
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134776
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	585		430	86
208-96-8	Acenaphthylene	662		170	21
120-12-7	Anthracene	711		36	18
56-55-3	Benzo[a]anthracene	1450		34	17
50-32-8	Benzo[a]pyrene	1330		45	22
205-99-2	Benzo[b]fluoranthene	1860		52	26
191-24-2	Benzo[g,h,i]perylene	1110		86	19
207-08-9	Benzo[k]fluoranthene	1110		34	15
218-01-9	Chrysene	1490		39	19
53-70-3	Dibenz(a,h)anthracene	711		86	18
206-44-0	Fluoranthene	2230		86	17
86-73-7	Fluorene	591		86	18
193-39-5	Indeno[1,2,3-cd]pyrene	930		86	31
90-12-0	1-Methylnaphthalene	809		170	19
91-57-6	2-Methylnaphthalene	781		170	31
91-20-3	Naphthalene	648		170	19
85-01-8	Phenanthrene	1240		34	17
129-00-0	Pyrene	1940		86	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	94		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22015.D
Lab Smp Id: 680-87545-a-1-c msd
Inj Date : 22-FEB-2013 15:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87545-a-1-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 15 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.420	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1546272	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1227946	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2308829	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	81756	2.34531	608.3808
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2831067	40.0000	
* 23 Perylene-d12	264	9.015	9.016	(1.000)	2793829	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	90951	2.25935	586.0841
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	73207	2.72631	707.2138
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	69046	2.82330	732.3730
5 Acenaphthylene	152	4.804	4.804	(0.982)	114403	2.31085	599.4419
7 Acenaphthene	154	4.910	4.910	(1.004)	62806	2.04106	529.4567
9 Fluorene	166	5.233	5.234	(1.070)	80193	2.06067	534.5453
11 Phenanthrene	178	5.862	5.863	(1.003)	288388	4.31970	1120.5444(R)
12 Anthracene	178	5.898	5.898	(1.009)	161935	2.48017	643.3636

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.004	6.004	(1.027)	133604	2.30193	597.1282
15 Fluoranthene	202	6.704	6.704	(1.147)	569353	7.78746	2020.0935(R)
16 Pyrene	202	6.874	6.875	(0.882)	516187	6.78472	1759.9781(R)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	413059	5.05518	1311.3304(R)
19 Chrysene	228	7.815	7.822	(1.002)	423678	5.18125	1344.0328(R)
20 Benzo(b)fluoranthene	252	8.656	8.657	(0.960)	473903	6.49065	1683.6974(R)
21 Benzo(k)fluoranthene	252	8.674	8.680	(0.962)	289193	3.86105	1001.5686(R)
22 Benzo(a)pyrene	252	8.956	8.963	(0.993)	327966	4.62447	1199.6034(R)
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.239	(1.134)	216344	3.24279	841.1914(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.257	(1.137)	161770	2.47897	643.0528
26 Benzo(g,h,i)perylene	276	10.597	10.610	(1.175)	270367	3.87402	1004.9329(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB22015.D

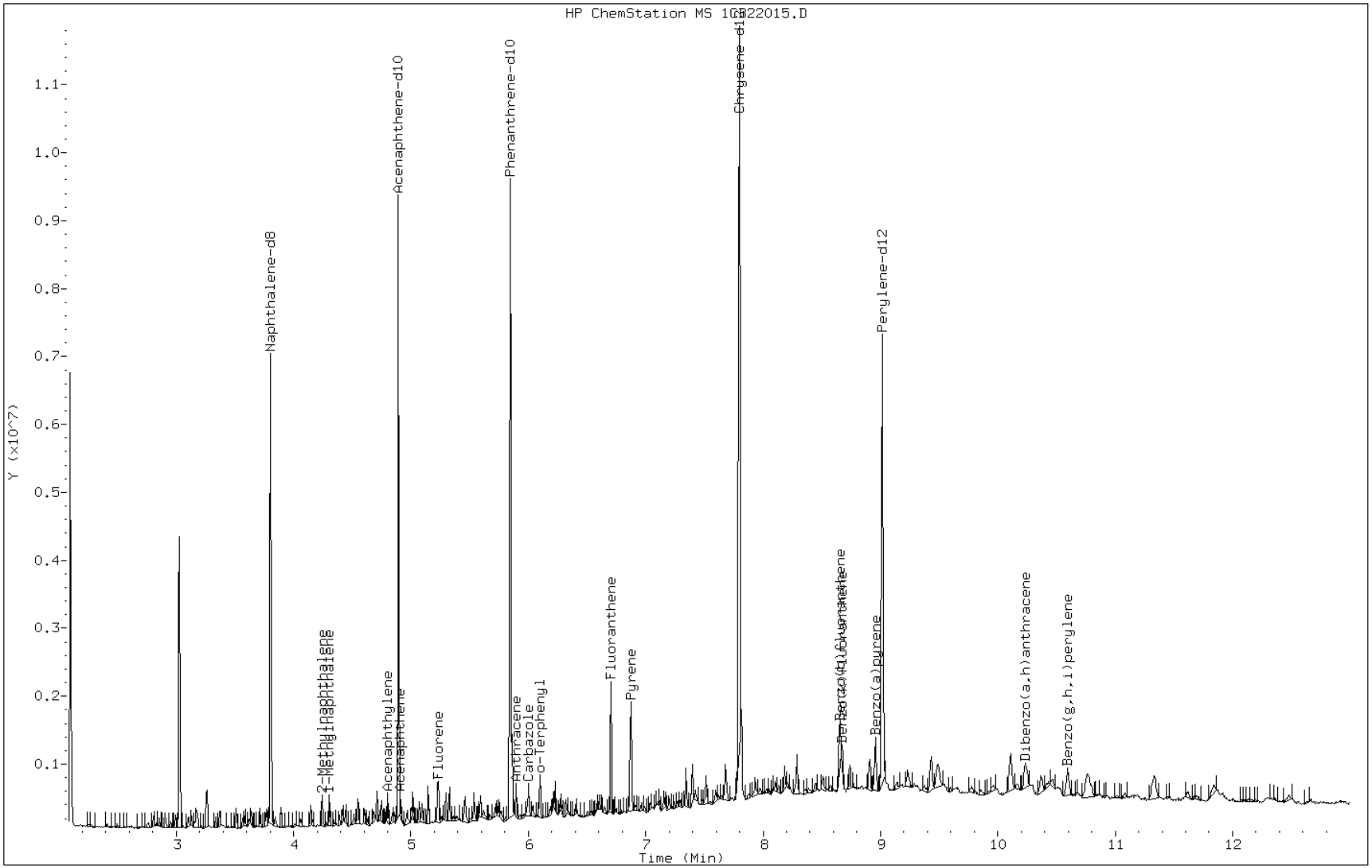
Date: 22-FEB-2013 15:40

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-87545-a-1-c msd

Operator: SCC



Manual Integration Report

Data File: 1CB22015.D
Inj. Date and Time: 22-FEB-2013 15:40
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

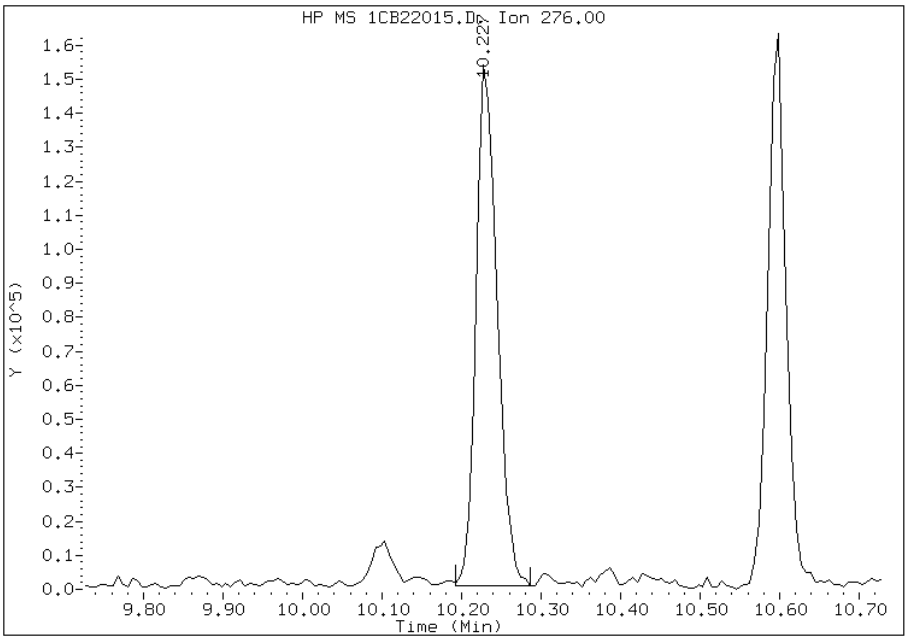
Processing Integration Results

RT: 10.23

Response: 281441

Amount: 4

Conc: 1094



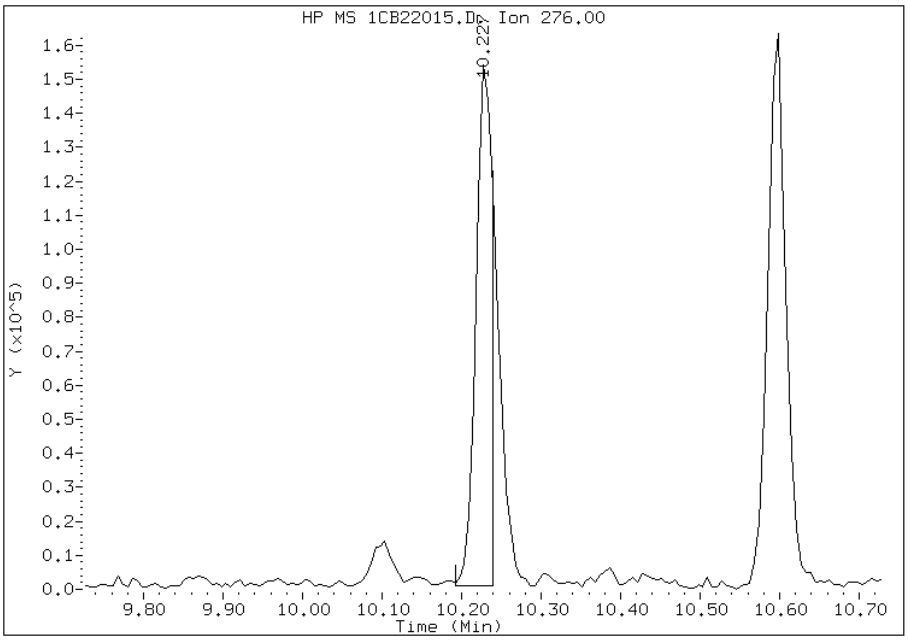
Manual Integration Results

RT: 10.23

Response: 216344

Amount: 3

Conc: 841



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 10:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-2

SDG No.: 68087545-2

Client Sample ID: FM0161W-CS MSD | Lab Sample ID: 680-87545-34 MSD

Matrix: Solid | Lab File ID: 1DB22020.D

Analysis Method: 8270C LL | Date Collected: 02/14/2013 13:00

Extract. Method: 3546 | Date Extracted: 02/21/2013 16:21

Sample wt/vol: 14.96(g) | Date Analyzed: 02/22/2013 19:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 3.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134781 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	558		420	83
208-96-8	Acenaphthylene	589		170	21
120-12-7	Anthracene	629		35	17
56-55-3	Benzo[a]anthracene	751		33	16
50-32-8	Benzo[a]pyrene	659		43	22
205-99-2	Benzo[b]fluoranthene	811		51	25
191-24-2	Benzo[g,h,i]perylene	606		83	18
207-08-9	Benzo[k]fluoranthene	646		33	15
218-01-9	Chrysene	742		37	19
53-70-3	Dibenz(a,h)anthracene	632		83	17
206-44-0	Fluoranthene	799		83	17
86-73-7	Fluorene	592		83	17
193-39-5	Indeno[1,2,3-cd]pyrene	592		83	30
90-12-0	1-Methylnaphthalene	625		170	18
91-57-6	2-Methylnaphthalene	628		170	30
91-20-3	Naphthalene	592		170	18
85-01-8	Phenanthrene	757		33	16
129-00-0	Pyrene	745		83	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22020.D
Lab Smp Id: 680-87545-A-34-C MS
Inj Date : 22-FEB-2013 19:12
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-34-C MSD
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 20 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.187	6.188	(1.000)	3335464	40.0000	
* 6 Acenaphthene-d10	164	7.861	7.856	(1.000)	2015306	40.0000	
* 9 Phenanthrene-d10	188	9.118	9.114	(1.000)	3252717	40.0000	
$ 13 o-Terphenyl	230	9.424	9.431	(1.034)	114613	2.27859	610
* 17 Chrysene-d12	240	11.463	11.464	(1.000)	3255461	40.0000	
* 22 Perylene-d12	264	13.349	13.344	(1.000)	3409206	40.0000	
2 Naphthalene	128	6.204	6.205	(1.003)	190595	2.13609	570
3 2-Methylnaphthalene	142	6.903	6.910	(1.116)	128930	2.26839	610
4 1-Methylnaphthalene	142	6.997	6.999	(1.131)	120010	2.25478	600
5 Acenaphthylene	152	7.726	7.733	(0.983)	188768	2.12457	570
7 Acenaphthene	154	7.885	7.886	(1.003)	109078	2.01347	540
8 Fluorene	166	8.325	8.326	(1.059)	135246	2.13673	570
10 Phenanthrene	178	9.136	9.137	(1.002)	252438	2.73397	730
11 Anthracene	178	9.171	9.184	(1.006)	209620	2.26905	610

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.312	9.313	(1.021)	184523	2.23433	600
14 Fluoranthene	202	10.117	10.124	(1.110)	278073	2.88585	770
15 Pyrene	202	10.305	10.312	(0.899)	271422	2.68784	720
16 Benzo(a)anthracene	228	11.439	11.446	(0.998)	241760	2.71252	720
18 Chrysene	228	11.486	11.499	(1.002)	246395	2.67778	720
19 Benzo(b)fluoranthene	252	12.773	12.792	(0.957)	256975	2.92841	780(H)
20 Benzo(k)fluoranthene	252	12.814	12.839	(0.960)	214094	2.33016	620(H)
21 Benzo(a)pyrene	252	13.237	13.262	(0.992)	206614	2.37930	640(H)
23 Indeno(1,2,3-cd)pyrene	276	14.953	14.995	(1.120)	198155	2.13824	570(M)
24 Dibenzo(a,h)anthracene	278	14.988	15.030	(1.123)	195406	2.28318	610(H)
25 Benzo(g,h,i)perylene	276	15.411	15.465	(1.154)	193376	2.18857	580(H)

QC Flag Legend

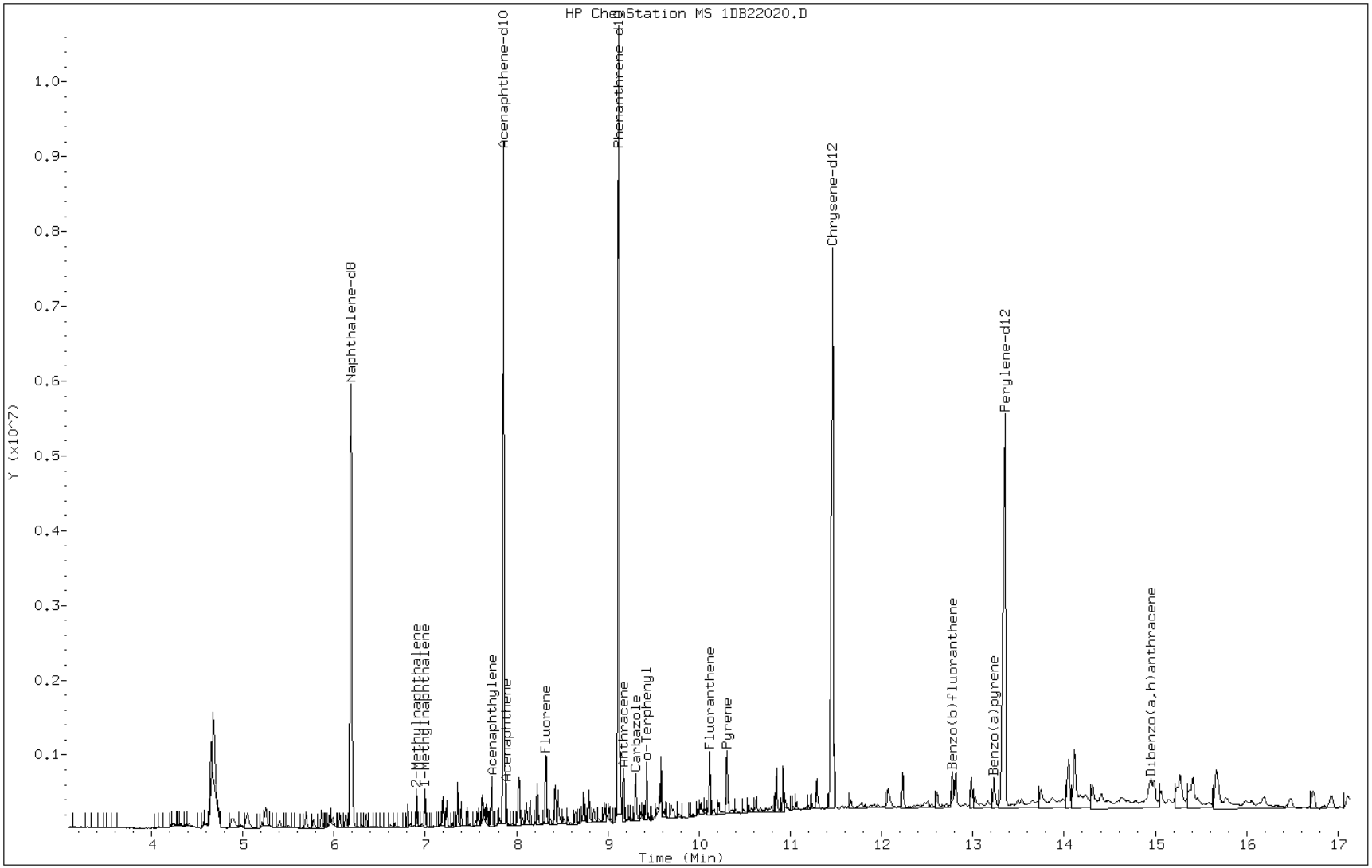
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22020.D

Date: 22-FEB-2013 19:12

Client ID: Instrument: BSMSD.i

Sample Info: 680-87545-A-34-C MSD Operator: SCC



Manual Integration Report

Data File: 1DB22020.D
Inj. Date and Time: 22-FEB-2013 19:12
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

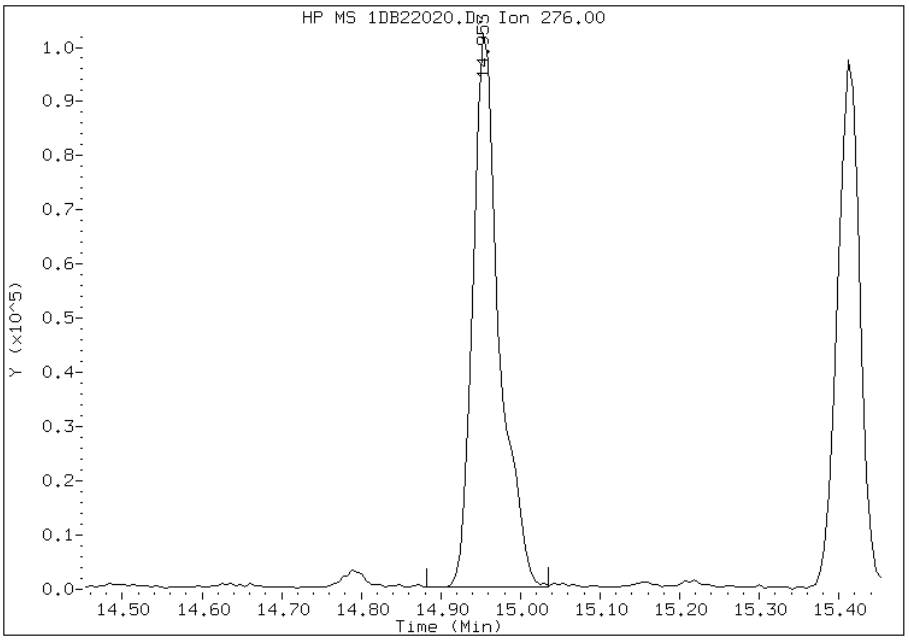
Processing Integration Results

RT: 14.95

Response: 234556

Amount: 3

Conc: 677



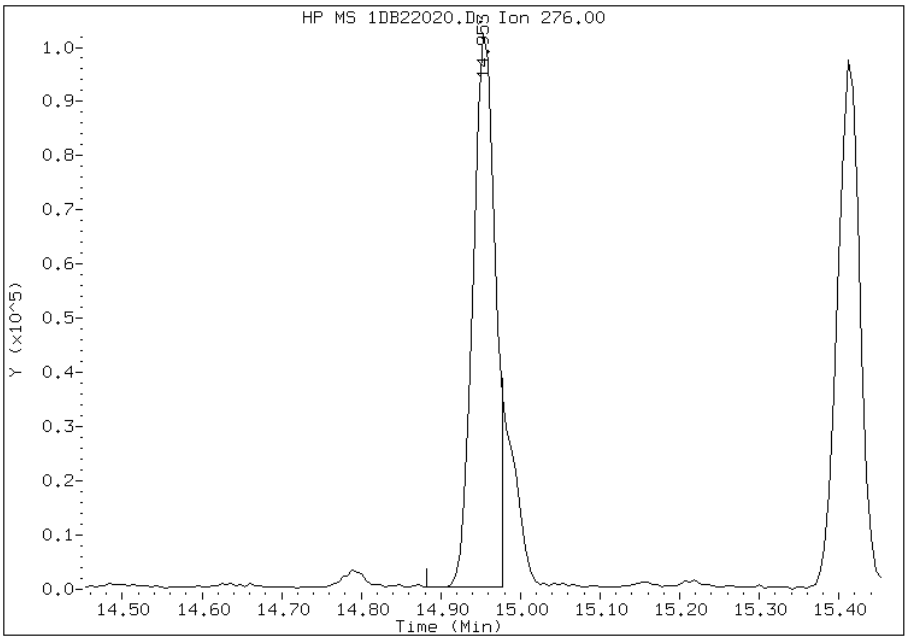
Manual Integration Results

RT: 14.95

Response: 198155

Amount: 2

Conc: 572



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 15:32
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMA5973 Start Date: 02/22/2013 10:12

Analysis Batch Number: 134771 End Date: 02/22/2013 22:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 10:12	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 10:27	1		DB-5MS 250(um)
DFTPP 660-134771/2		02/22/2013 10:42	1	1AB22002.D	DB-5MS 250(um)
IC 660-134771/3		02/22/2013 11:01	1	1AB22003.D	DB-5MS 250(um)
IC 660-134771/4		02/22/2013 11:16	1	1AB22004.D	DB-5MS 250(um)
IC 660-134771/5		02/22/2013 11:31	1	1AB22005.D	DB-5MS 250(um)
IC 660-134771/6		02/22/2013 11:47	1	1AB22006.D	DB-5MS 250(um)
ICIS 660-134771/7		02/22/2013 12:02	1	1AB22007.D	DB-5MS 250(um)
IC 660-134771/8		02/22/2013 12:17	1	1AB22008.D	DB-5MS 250(um)
IC 660-134771/9		02/22/2013 12:32	1	1AB22009.D	DB-5MS 250(um)
ICV 660-134771/10		02/22/2013 12:48	1	1AB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 13:08	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 13:23	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 13:38	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 13:53	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:08	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:24	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:39	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:54	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:09	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:24	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:39	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:55	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:25	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:39	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:55	1		DB-5MS 250(um)
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ZZZZZ		02/22/2013 17:25	1		DB-5MS 250(um)
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ZZZZZ		02/22/2013 17:55	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:10	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:26	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:41	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:55	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:11	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:26	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:41	1		DB-5MS 250(um)
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ZZZZZ		02/22/2013 20:57	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 21:12	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 21:27	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMA5973 Start Date: 02/22/2013 10:12

Analysis Batch Number: 134771 End Date: 02/22/2013 22:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 21:43	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 21:58	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 22:13	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 22:28	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMA5973 Start Date: 02/25/2013 11:29

Analysis Batch Number: 134820 End Date: 02/26/2013 01:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/25/2013 11:29	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 11:45	1		DB-5MS 250(um)
DFTPP 660-134820/2		02/25/2013 12:00	1		DB-5MS 250(um)
DFTPP 660-134820/3		02/25/2013 12:15	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 14:13	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 14:29	1		DB-5MS 250(um)
DFTPP 660-134820/5		02/25/2013 14:44	1	1AB25005.D	DB-5MS 250(um)
CCVIS 660-134820/6		02/25/2013 14:59	1	1AB25006.D	DB-5MS 250(um)
ZZZZZ		02/25/2013 15:15	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 15:29	4		DB-5MS 250(um)
680-87545-39	FM0161BB-CS	02/25/2013 15:44	1	1AB25009.D	DB-5MS 250(um)
680-87545-40	FM0161CC-CS	02/25/2013 15:59	1	1AB25010.D	DB-5MS 250(um)
ZZZZZ		02/25/2013 16:14	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 16:30	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 16:45	1		DB-5MS 250(um)
680-87545-23	FM0161M-CSD	02/25/2013 17:00	1	1AB25014.D	DB-5MS 250(um)
680-87545-24	FM0161N-CS	02/25/2013 17:15	1	1AB25015.D	DB-5MS 250(um)
680-87545-25	FM0161O-CS	02/25/2013 17:30	1	1AB25016.D	DB-5MS 250(um)
680-87545-26	FM0161P-CS	02/25/2013 17:45	1	1AB25017.D	DB-5MS 250(um)
680-87545-27	FM0161Q-CS	02/25/2013 18:00	1	1AB25018.D	DB-5MS 250(um)
680-87545-28	FM0161R-CS	02/25/2013 18:15	1	1AB25019.D	DB-5MS 250(um)
ZZZZZ		02/25/2013 18:30	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 18:45	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 19:00	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 19:16	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 19:31	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 19:45	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 20:00	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 20:15	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 20:30	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 20:45	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 21:00	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 21:15	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 21:30	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 21:45	4		DB-5MS 250(um)
ZZZZZ		02/25/2013 22:00	4		DB-5MS 250(um)
ZZZZZ		02/25/2013 22:15	4		DB-5MS 250(um)
ZZZZZ		02/25/2013 22:30	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 22:45	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 23:01	4		DB-5MS 250(um)
ZZZZZ		02/25/2013 23:16	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 23:31	4		DB-5MS 250(um)
ZZZZZ		02/25/2013 23:46	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 00:01	1		DB-5MS 250(um)
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GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMA5973 Start Date: 02/25/2013 11:29

Analysis Batch Number: 134820 End Date: 02/26/2013 01:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/26/2013 00:32	4		DB-5MS 250(um)
ZZZZZ		02/26/2013 00:47	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 01:02	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 01:17	4		DB-5MS 250(um)
ZZZZZ		02/26/2013 01:32	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 01:47	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMC5973 Start Date: 02/22/2013 11:04

Analysis Batch Number: 134776 End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250(um)
DFTPP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250(um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250(um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250(um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250(um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250(um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250(um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250(um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250(um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250(um)
MB 660-134712/1-A		02/22/2013 14:26	1	1CB22011.D	DB-5MS 250(um)
LCS 660-134712/2-A		02/22/2013 14:45	1	1CB22012.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250(um)
680-87545-A-1-B MS		02/22/2013 15:21	4	1CB22014.D	DB-5MS 250(um)
680-87545-A-1-C MSD		02/22/2013 15:40	4	1CB22015.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:11	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250(um)
680-87545-21	FM0161L-CS	02/22/2013 19:19	1	1CB22027.D	DB-5MS 250(um)
680-87545-22	FM0161M-CS	02/22/2013 19:38	1	1CB22028.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: BSMD5973 Start Date: 02/22/2013 11:10

Analysis Batch Number: 134781 End Date: 02/22/2013 20:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:10	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 11:33	1		DB-5MS 250(um)
DFTPP 660-134781/2		02/22/2013 11:57	1	1DB22002.D	DB-5MS 250(um)
IC 660-134781/3		02/22/2013 12:13	1	1DB22003.D	DB-5MS 250(um)
IC 660-134781/4		02/22/2013 12:35	1	1DB22004.D	DB-5MS 250(um)
IC 660-134781/5		02/22/2013 12:58	1	1DB22005.D	DB-5MS 250(um)
IC 660-134781/6		02/22/2013 13:21	1	1DB22006.D	DB-5MS 250(um)
ICIS 660-134781/7		02/22/2013 13:43	1	1DB22007.D	DB-5MS 250(um)
IC 660-134781/8		02/22/2013 14:06	1	1DB22008.D	DB-5MS 250(um)
IC 660-134781/9		02/22/2013 14:28	1	1DB22009.D	DB-5MS 250(um)
ICV 660-134781/10		02/22/2013 14:51	1	1DB22010.D	DB-5MS 250(um)
MB 660-134730/1-A		02/22/2013 15:33	1	1DB22011.D	DB-5MS 250(um)
LCS 660-134730/2-A		02/22/2013 15:56	1	1DB22012.D	DB-5MS 250(um)
680-87545-29	FM0161S-CS	02/22/2013 16:21	1	1DB22013.D	DB-5MS 250(um)
680-87545-30	FM0161T-CS	02/22/2013 16:44	1	1DB22014.D	DB-5MS 250(um)
680-87545-31	FM0161U-CS	02/22/2013 17:19	1	1DB22015.D	DB-5MS 250(um)
680-87545-32	FM0161U-CSD	02/22/2013 17:42	1	1DB22016.D	DB-5MS 250(um)
680-87545-33	FM0161V-CS	02/22/2013 18:04	4	1DB22017.D	DB-5MS 250(um)
680-87545-34	FM0161W-CS	02/22/2013 18:27	4	1DB22018.D	DB-5MS 250(um)
680-87545-34 MS	FM0161W-CS MS	02/22/2013 18:49	4	1DB22019.D	DB-5MS 250(um)
680-87545-34 MSD	FM0161W-CS MSD	02/22/2013 19:12	4	1DB22020.D	DB-5MS 250(um)
680-87545-35	FM0161X-CS	02/22/2013 19:34	4	1DB22021.D	DB-5MS 250(um)
680-87545-36	FM0161Y-CS	02/22/2013 19:57	4	1DB22022.D	DB-5MS 250(um)
680-87545-37	FM0161Z-CS	02/22/2013 20:19	1	1DB22023.D	DB-5MS 250(um)
680-87545-38	FM0161AA-CS	02/22/2013 20:42	1	1DB22024.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Batch Number: 134712 Batch Start Date: 02/21/13 12:14 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/22/13 08:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00175		
MB 660-134712/1		3546, 8270C LL		15.42 g	1 mL		1 mL		
LCS 660-134712/2		3546, 8270C LL		15.39 g	1 mL	1 mL	1 mL		
680-87545-A-1 MS		3546, 8270C LL	T	15.42 g	1 mL	1 mL	1 mL		
680-87545-A-1 MSD		3546, 8270C LL	T	15.42 g	1 mL	1 mL	1 mL		
680-87545-A-21	FM0161L-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-87545-A-22	FM0161M-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-87545-A-23	FM0161M-CSD	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-87545-A-24	FM0161N-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-87545-A-25	FM0161O-CS	3546, 8270C LL	T	15.27 g	1 mL		1 mL		
680-87545-A-26	FM0161P-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-87545-A-27	FM0161Q-CS	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-87545-A-28	FM0161R-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Batch Number: 134712 Batch Start Date: 02/21/13 12:14 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/22/13 08:20

Batch Notes	
Acetone Lot #	EX ACETON BOT _46
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _54
MeCl2/Acetone Lot #	EX DCM/ACETON _21
Microwave Start Time	13.45/2/21/13
Microwave Stop Time	14.20/2/21/13
Na2SO4 Lot Number	EX NA2S04 A_62
Ottawa Sand Lot #	ex-OTTAWSAND_11
Person's name who did the prep	SAUREL
SOP Number	T P EX 014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT _175
Water Bath ID	TURBOVAP2#1/2/3
Water Bath Temperature	40 C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Batch Number: 134730 Batch Start Date: 02/21/13 16:21 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/22/13 08:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00175		
MB 660-134730/1		3546, 8270C LL		15.35 g	1 mL		1 mL		
LCS 660-134730/2		3546, 8270C LL		15.18 g	1 mL	1 mL	1 mL		
680-87545-A-29	FM0161S-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-87545-A-30	FM0161T-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-87545-A-31	FM0161U-CS	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-87545-A-32	FM0161U-CSD	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-87545-A-33	FM0161V-CS	3546, 8270C LL	T	15.42 g	1 mL		1 mL		
680-87545-A-34	FM0161W-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-87545-A-34 MS	FM0161W-CS	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-87545-A-34 MSD	FM0161W-CS	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-87545-A-35	FM0161X-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-87545-A-36	FM0161Y-CS	3546, 8270C LL	T	15.23 g	1 mL		1 mL		
680-87545-A-37	FM0161Z-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-87545-A-38	FM0161AA-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-87545-A-39	FM0161BB-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-87545-A-40	FM0161CC-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Batch Number: 134730 Batch Start Date: 02/21/13 16:21 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/22/13 08:30

Batch Notes	
Acetone Lot #	EX ACETON BOT _46
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _54
MeCl2/Acetone Lot #	EX DCM/ ACETON _21
Microwave Start Time	17.30/2/21/13
Microwave Stop Time	18.05/2/21/13
Na2SO4 Lot Number	EX NA2S04 A_62
Ottawa Sand Lot #	OTTAWSAND_11
Person's name who did the prep	SAUREL
SOP Number	T P EX 014
Person who witnessed spiking	SELF
Surrogate Lot Number	EX LLSURINT 175
Water Bath ID	TURBOVAP2#1/2/3
Water Bath Temperature	40 C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87545-2

SDG No.: 68087545-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
FM0161L-CS	680-87545-21
FM0161M-CS	680-87545-22
FM0161M-CSD	680-87545-23
FM0161N-CS	680-87545-24
FM0161O-CS	680-87545-25
FM0161P-CS	680-87545-26
FM0161Q-CS	680-87545-27
FM0161R-CS	680-87545-28
FM0161S-CS	680-87545-29
FM0161T-CS	680-87545-30
FM0161U-CS	680-87545-31
FM0161U-CSD	680-87545-32
FM0161V-CS	680-87545-33
FM0161W-CS	680-87545-34
FM0161X-CS	680-87545-35
FM0161Y-CS	680-87545-36
FM0161Z-CS	680-87545-37
FM0161AA-CS	680-87545-38
FM0161BB-CS	680-87545-39
FM0161CC-CS	680-87545-40

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87545-2

SDG Number: 68087545-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87545-2

SDG Number: 68087545-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87545-2

SDG Number: 68087545-2

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87545-2

SDG Number: 68087545-2

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: Moisture Method: Moisture

Start Date: 02/20/2013 05:40 End Date: 02/20/2013 09:21

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134650/22	1	T	05:40	X																			
LCS 660-134650/1	1	T	05:41	X																			
680-87545-36	1	T	06:09	X																			
680-87545-37	1	T	06:11	X																			
680-87545-38	1	T	06:35	X																			
680-87545-39	1	T	06:36	X																			
ZZZZZZ			06:57																				
ZZZZZZ			07:01																				
ZZZZZZ			07:14																				
ZZZZZZ			07:19																				
ZZZZZZ			07:39																				
ZZZZZZ			07:41																				
ZZZZZZ			07:52																				
ZZZZZZ			07:56																				
ZZZZZZ			08:02																				
ZZZZZZ			08:03																				
ZZZZZZ			08:20																				
ZZZZZZ			08:30																				
ZZZZZZ			08:52																				
ZZZZZZ			09:00																				
ZZZZZZ			09:21																				
ZZZZZZ			09:21																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/20/2013 05:33 End Date: 02/20/2013 05:33

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-134638/1	1	T	05:33	X																			
ZZZZZZ			05:33																				
680-87545-A-1 MS	1	T	05:33	X																			
680-87545-A-1 MSD	1	T	05:33	X																			
ZZZZZZ			05:33																				
ZZZZZZ			05:33																				
ZZZZZZ			05:33																				
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ZZZZZZ			05:33																				
680-87545-21	1	T	05:33	X																			
680-87545-22	1	T	05:33	X																			
680-87545-23	1	T	05:33	X																			
680-87545-24	1	T	05:33	X																			
680-87545-25	1	T	05:33	X																			
680-87545-26	1	T	05:33	X																			
680-87545-27	1	T	05:33	X																			
680-87545-28	1	T	05:33	X																			
680-87545-29	1	T	05:33	X																			
680-87545-30	1	T	05:33	X																			
680-87545-31	1	T	05:33	X																			
680-87545-32	1	T	05:33	X																			
680-87545-33	1	T	05:33	X																			
680-87545-34	1	T	05:33	X																			
680-87545-34 MS	1	T	05:33	X																			
680-87545-34 MSD	1	T	05:33	X																			
680-87545-35	1	T	05:33	X																			
680-87545-40	1	T	05:33	X																			
ZZZZZZ			05:33																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/20/2013 05:33 End Date: 02/20/2013 05:33

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			05:33																				
ZZZZZZ			05:33																				
ZZZZZZ			05:33																				
ZZZZZZ			05:33																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Batch Number: 134638 Batch Start Date: 02/20/13 05:33 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-134638/1		Moisture		1	0 g	9.64 g	9.67 g		
680-87545-A-1 MS		Moisture	T	2	0 g	4.42 g	4.00 g		
680-87545-A-1 MSD		Moisture	T	2	0 g	4.42 g	4.00 g		
680-87545-A-21	FM0161L-CS	Moisture	T	22	0 g	4.20 g	4.18 g		
680-87545-A-22	FM0161M-CS	Moisture	T	23	0 g	5.13 g	5.01 g		
680-87545-A-23	FM0161M-CSD	Moisture	T	24	0 g	5.43 g	5.27 g		
680-87545-A-24	FM0161N-CS	Moisture	T	25	0 g	4.56 g	4.52 g		
680-87545-A-25	FM0161O-CS	Moisture	T	26	0 g	5.13 g	4.76 g		
680-87545-A-26	FM0161P-CS	Moisture	T	27	0 g	4.59 g	4.32 g		
680-87545-A-27	FM0161Q-CS	Moisture	T	28	0 g	4.27 g	4.26 g		
680-87545-A-28	FM0161R-CS	Moisture	T	29	0 g	4.55 g	4.29 g		
680-87545-A-29	FM0161S-CS	Moisture	T	30	0 g	4.36 g	4.27 g		
680-87545-A-30	FM0161T-CS	Moisture	T	31	0 g	4.12 g	4.04 g		
680-87545-A-31	FM0161U-CS	Moisture	T	32	0 g	4.28 g	4.11 g		
680-87545-A-32	FM0161U-CSD	Moisture	T	33	0 g	4.76 g	4.50 g		
680-87545-A-33	FM0161V-CS	Moisture	T	34	0 g	4.61 g	4.51 g		
680-87545-A-34	FM0161W-CS	Moisture	T	35	0 g	4.31 g	4.16 g		
680-87545-A-34 MS	FM0161W-CS	Moisture	T	0	0 g	4.31 g	4.16 g		
680-87545-A-34 MSD	FM0161W-CS	Moisture	T	0	0 g	4.31 g	4.16 g		
680-87545-A-35	FM0161X-CS	Moisture	T	36	0 g	4.88 g	4.55 g		
680-87545-A-40	FM0161CC-CS	Moisture	T	37	0 g	4.53 g	4.45 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.20.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-2

SDG No.: 68087545-2

Batch Number: 134650 Batch Start Date: 02/20/13 05:40 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134650/1		Moisture		0 g	10.01 g	9.014 g			
680-87545-A-36	FM0161Y-CS	Moisture	T	0 g	3.929 g	2.914 g			
680-87545-A-38	FM0161AA-CS	Moisture	T	0 g	4.743 g	3.409 g			
680-87545-A-39	FM0161BB-CS	Moisture	T	0 g	4.171 g	3.059 g			
680-87545-A-37	FM0161Z-CS	Moisture	T	0 g	3.999 g	2.992 g			
LCSD 660-134650/22		Moisture		0 g	10.031 g	9.026 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 59541

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
R. Henderson		

CLIENT NAME	CLIENT E-MAIL
OTIE	L Krebs@otie.com

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 8

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LL PAH 8270

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH 8270	REMARKS
2/14/13	943	FM0161AH-GS	G		X			X	
	952	FM0161AI-GS	G		X			X	
	1004	FM0161AJ-GS	G		X			X	
	1037	FM0161AK-GS	G		X			X	
	1052	FM0161AL-GS	G		X			X	
	1053	FM0161AM-GS	G		X			X	
	931	FM0161J-CS	C		X			X	
	937	FM0161K-CS	C		X			X	
	948	FM0161L-CS	C		X			X	
	955	FM0161M-CS	C		X			X	
	958	FM0161M-CSD	C		X			X	
	1005	FM0161N-CS	C		X			X	

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Mike Sar	2/15/13	1130						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Daughtry	2/16/13	0903	YES ◯ NO ◯		680 87545	Temp 2.8°C, 3.4°C

TAL8240-680 (1008)

Serial Number 59542

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	20051148 - 1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
R. Henderson		

CLIENT NAME	CLIENT E-MAIL
OTIE	LKrebs@otie.com

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 3 OF 8

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH 8270	SVOC 8270									REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
2/14/13	1024	FM01610-CS	C		X			X										
	1027	FM0161P-CS	C		X			X										
	1031	FM0161Q-CS	C		X			X										
	1035	FM0161R-CS	C		X			X										
	1045	FM0161S-CS	C		X			X										
	1049	FM0161T-CS	C		X			X										
	1252	FM0161U-CS	C		X			X										
	1254	FM0161U-CSD	C		X			X										
	1258	FM0161V-CS	C		X			X										
	1300	FM0161W-CS	C		X			X	X									
	1306	FM0161X-CS	C		X			X										
	1310	FM0161Y-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/15/13	1130						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Daughtry	2/16/13	0903	YES ○ NO ○		680 87545	Temp 2.8°C, 3.4°C

TAL8240-680 (1008)

Serial Number 59543

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL	PAGE 4 OF 8
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ○
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE	CLIENT FAX	DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL: LKrebs@otie.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE — INDICATE

REQUIRED ANALYSIS / PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH 8270	RCRA Metals									REMARKS
2/14/13	1326	FM0161Z-CS	C		X			X										
	1325	FM0161AA-CS	C		X			X										
	1346	FM0161BB-CS	C		X			X										
	1356	FM0161CC-CS	C		X			X										
	1404	FM0161DD-CS	C		X			X										
	1341	FM0161AN-GS	G		X			X										
	1346	FM0161BB-CSD	X		X			X										
	1338	CV010913-CS-SP	C		X			X	X									
	1410	FM0161EE-CS	C		X			X										
	1418	FM0161FF-CS	C		X			X										
	1437	FM0161GG-CS	C		X			X										
	1439	FM0161HH-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/15/13	1130						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Daughtry	2/16/13	0903	YES ○ NO ○		680 87545	Temp 2.8°C, 3.4°C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-2
SDG Number: 68087545-2

Login Number: 87545
List Number: 1
Creator: Daughtry, Beth

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-2
SDG Number: 68087545-2

Login Number: 87545
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 02/19/13 10:59 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	