ANALYTICAL REPORT

Job Number: 680-87496-2

SDG Number: 68087496-2

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
2/26/2013 4:20 PM

Designee for
Lisa Harvey
Project Manager II
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02/26/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87496-2

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 02/15/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0971KK-CS (680-87496-21), CV0971LL-CS (680-87496-22), CV0971MM-CS (680-87496-23), CV0971NN-CS (680-87496-24), CV0971OO-CS (680-87496-25), CV0971PP-CS (680-87496-26), CV0971PP-CSD (680-87496-27), CV0971QQ-CS (680-87496-28), CV0971RR-CS (680-87496-29), CV0971SS-CS (680-87496-30), CV0971TT-CS (680-87496-31), CV0971AK-GS (680-87496-32), CV0971AL-GS (680-87496-33), CV0971AM-GS (680-87496-34), CV0971AN-GS (680-87496-35), CV0971AO-GS (680-87496-36), CV0971AP-GS (680-87496-37), CV0971AQ-GS (680-87496-38), CV0971AR-GS (680-87496-39) and CV0971UU-CS (680-87496-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/20/2013 and analyzed on 02/21/2013.

Samples CV0971LL-CS (680-87496-22)[4X] and CV0971NN-CS (680-87496-24)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0971QQ-CS (680-87496-28) in batch 660-134719. Several analytes also exceeded the rpd limit for the MS/MSD of sample CV0971QQ-CS (680-87496-28) in batch 660-134719.

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: 680-87496-2
Sdg Number: 68087496-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87496-21	CV0971KK-CS	Solid	02/13/2013 1018	02/15/2013 0942
680-87496-22	CV0971LL-CS	Solid	02/13/2013 1022	02/15/2013 0942
680-87496-23	CV0971MM-CS	Solid	02/13/2013 1104	02/15/2013 0942
680-87496-24	CV0971NN-CS	Solid	02/13/2013 1110	02/15/2013 0942
680-87496-25	CV0971OO-CS	Solid	02/13/2013 1113	02/15/2013 0942
680-87496-26	CV0971PP-CS	Solid	02/13/2013 1124	02/15/2013 0942
680-87496-27	CV0971PP-CSD	Solid	02/13/2013 1126	02/15/2013 0942
680-87496-28	CV0971QQ-CS	Solid	02/13/2013 1128	02/15/2013 0942
680-87496-28MS	CV0971QQ-CS	Solid	02/13/2013 1128	02/15/2013 0942
680-87496-28MSD	CV0971QQ-CS	Solid	02/13/2013 1128	02/15/2013 0942
680-87496-29	CV0971RR-CS	Solid	02/13/2013 1132	02/15/2013 0942
680-87496-30	CV0971SS-CS	Solid	02/13/2013 1135	02/15/2013 0942
680-87496-31	CV0971TT-CS	Solid	02/13/2013 1138	02/15/2013 0942
680-87496-32	CV0971AK-GS	Solid	02/13/2013 0921	02/15/2013 0942
680-87496-33	CV0971AL-GS	Solid	02/13/2013 1001	02/15/2013 0942
680-87496-34	CV0971AM-GS	Solid	02/13/2013 1006	02/15/2013 0942
680-87496-35	CV0971AN-GS	Solid	02/13/2013 1033	02/15/2013 0942
680-87496-36	CV0971AO-GS	Solid	02/13/2013 1045	02/15/2013 0942
680-87496-37	CV0971AP-GS	Solid	02/13/2013 1120	02/15/2013 0942
680-87496-38	CV0971AQ-GS	Solid	02/13/2013 1122	02/15/2013 0942
680-87496-39	CV0971AR-GS	Solid	02/13/2013 1420	02/15/2013 0942
680-87496-40	CV0971UU-CS	Solid	02/13/2013 1341	02/15/2013 0942

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-2
Sdg Number: 68087496-2

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: 680-87496-2
Sdg Number: 68087496-2

Method	Analyst	Analyst ID
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Office, Trey	TO

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-2
Sdg Number: 68087496-2

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.
	F	RPD of the MS and MSD exceeds the control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-2
Sdg Number: 68087496-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134660					
LCS 660-134660/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134660/1-A	Method Blank	T	Solid	3546	
680-87496-A-1-B MS	Matrix Spike	T	Solid	3546	
680-87496-A-1-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87496-21	CV0971KK-CS	T	Solid	3546	
680-87496-22	CV0971LL-CS	T	Solid	3546	
680-87496-23	CV0971MM-CS	T	Solid	3546	
680-87496-24	CV0971NN-CS	T	Solid	3546	
680-87496-25	CV0971OO-CS	T	Solid	3546	
Prep Batch: 660-134668					
LCS 660-134668/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134668/1-A	Method Blank	T	Solid	3546	
680-87496-26	CV0971PP-CS	T	Solid	3546	
680-87496-27	CV0971PP-CSD	T	Solid	3546	
680-87496-28	CV0971QQ-CS	T	Solid	3546	
680-87496-28MS	Matrix Spike	T	Solid	3546	
680-87496-28MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87496-29	CV0971RR-CS	T	Solid	3546	
680-87496-30	CV0971SS-CS	T	Solid	3546	
680-87496-31	CV0971TT-CS	T	Solid	3546	
680-87496-32	CV0971AK-GS	T	Solid	3546	
680-87496-33	CV0971AL-GS	T	Solid	3546	
680-87496-34	CV0971AM-GS	T	Solid	3546	
680-87496-35	CV0971AN-GS	T	Solid	3546	
680-87496-36	CV0971AO-GS	T	Solid	3546	
680-87496-37	CV0971AP-GS	T	Solid	3546	
680-87496-38	CV0971AQ-GS	T	Solid	3546	
680-87496-39	CV0971AR-GS	T	Solid	3546	
680-87496-40	CV0971UU-CS	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-2
Sdg Number: 68087496-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-134719					
LCS 660-134660/2-A	Lab Control Sample	T	Solid	8270C LL	660-134660
MB 660-134660/1-A	Method Blank	T	Solid	8270C LL	660-134660
LCS 660-134668/2-A	Lab Control Sample	T	Solid	8270C LL	660-134668
MB 660-134668/1-A	Method Blank	T	Solid	8270C LL	660-134668
680-87496-A-1-B MS	Matrix Spike	T	Solid	8270C LL	660-134660
680-87496-A-1-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134660
680-87496-26	CV0971PP-CS	T	Solid	8270C LL	660-134668
680-87496-27	CV0971PP-CSD	T	Solid	8270C LL	660-134668
680-87496-28	CV0971QQ-CS	T	Solid	8270C LL	660-134668
680-87496-28MS	Matrix Spike	T	Solid	8270C LL	660-134668
680-87496-28MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134668
680-87496-29	CV0971RR-CS	T	Solid	8270C LL	660-134668
680-87496-30	CV0971SS-CS	T	Solid	8270C LL	660-134668
680-87496-31	CV0971TT-CS	T	Solid	8270C LL	660-134668
680-87496-32	CV0971AK-GS	T	Solid	8270C LL	660-134668
680-87496-33	CV0971AL-GS	T	Solid	8270C LL	660-134668
680-87496-34	CV0971AM-GS	T	Solid	8270C LL	660-134668
680-87496-35	CV0971AN-GS	T	Solid	8270C LL	660-134668
680-87496-36	CV0971AO-GS	T	Solid	8270C LL	660-134668
680-87496-37	CV0971AP-GS	T	Solid	8270C LL	660-134668
680-87496-38	CV0971AQ-GS	T	Solid	8270C LL	660-134668
680-87496-39	CV0971AR-GS	T	Solid	8270C LL	660-134668
680-87496-40	CV0971UU-CS	T	Solid	8270C LL	660-134668
Analysis Batch:660-134722					
680-87496-21	CV0971KK-CS	T	Solid	8270C LL	660-134660
680-87496-22	CV0971LL-CS	T	Solid	8270C LL	660-134660
680-87496-23	CV0971MM-CS	T	Solid	8270C LL	660-134660
680-87496-24	CV0971NN-CS	T	Solid	8270C LL	660-134660
680-87496-25	CV0971OO-CS	T	Solid	8270C LL	660-134660

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-2
Sdg Number: 68087496-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134548					
MB 660-134548/1	Method Blank	T	Solid	Moisture	
680-87496-21	CV0971KK-CS	T	Solid	Moisture	
680-87496-22	CV0971LL-CS	T	Solid	Moisture	
680-87496-23	CV0971MM-CS	T	Solid	Moisture	
680-87496-24	CV0971NN-CS	T	Solid	Moisture	
680-87496-25	CV0971OO-CS	T	Solid	Moisture	
680-87496-26	CV0971PP-CS	T	Solid	Moisture	
680-87496-27	CV0971PP-CSD	T	Solid	Moisture	
680-87496-28	CV0971QQ-CS	T	Solid	Moisture	
680-87496-29	CV0971RR-CS	T	Solid	Moisture	
680-87496-30	CV0971SS-CS	T	Solid	Moisture	
Analysis Batch:660-134573					
MB 660-134573/1	Method Blank	T	Solid	Moisture	
680-87496-31	CV0971TT-CS	T	Solid	Moisture	
680-87496-32	CV0971AK-GS	T	Solid	Moisture	
680-87496-33	CV0971AL-GS	T	Solid	Moisture	
680-87496-34	CV0971AM-GS	T	Solid	Moisture	
680-87496-35	CV0971AN-GS	T	Solid	Moisture	
680-87496-36	CV0971AO-GS	T	Solid	Moisture	
680-87496-37	CV0971AP-GS	T	Solid	Moisture	
680-87496-38	CV0971AQ-GS	T	Solid	Moisture	
680-87496-39	CV0971AR-GS	T	Solid	Moisture	
680-87496-40	CV0971UU-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMC5973 Analysis Batch Number: 133227

Lab Sample ID: IC 660-133227/3 Client Sample ID:

Date Analyzed: 01/07/13 15:23 Lab File ID: 1CA07013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.76	Baseline Event	cantins	01/08/13 12:35
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:35
Dibenz(a,h)anthracene	10.39	Baseline Event	cantins	01/08/13 12:35
Benzo[g,h,i]perylene	10.76	Baseline Event	cantins	01/08/13 12:35

Lab Sample ID: IC 660-133227/4 Client Sample ID:

Date Analyzed: 01/07/13 15:41 Lab File ID: 1CA07014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	7.89	Baseline Event	cantins	01/08/13 12:36
Indeno[1,2,3-cd]pyrene	10.36	Split Peak	cantins	01/08/13 12:37
Dibenz(a,h)anthracene	10.38	Baseline Event	cantins	01/08/13 12:36
Benzo[g,h,i]perylene	10.75	Baseline Event	cantins	01/08/13 12:36

Lab Sample ID: IC 660-133227/5 Client Sample ID:

Date Analyzed: 01/07/13 15:59 Lab File ID: 1CA07015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:38
Dibenz(a,h)anthracene	10.39	Baseline Event	cantins	01/08/13 12:37
Benzo[g,h,i]perylene	10.75	Baseline Event	cantins	01/08/13 12:38

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMC5973 Analysis Batch Number: 133227

Lab Sample ID: IC 660-133227/6 Client Sample ID:

Date Analyzed: 01/07/13 16:18 Lab File ID: 1CA07016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:39
Dibenz(a,h)anthracene	10.39	Baseline Event	cantins	01/08/13 12:38
Benzo[g,h,i]perylene	10.74	Baseline Event	cantins	01/08/13 12:39

Lab Sample ID: ICIS 660-133227/7 Client Sample ID:

Date Analyzed: 01/07/13 16:36 Lab File ID: 1CA07017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:32
Dibenz(a,h)anthracene	10.39	Baseline Event	cantins	01/08/13 12:32
Benzo[g,h,i]perylene	10.75	Baseline Event	cantins	01/08/13 12:32

Lab Sample ID: IC 660-133227/8 Client Sample ID:

Date Analyzed: 01/07/13 16:54 Lab File ID: 1CA07018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:39

Lab Sample ID: IC 660-133227/9 Client Sample ID:

Date Analyzed: 01/07/13 17:13 Lab File ID: 1CA07019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:40

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMC5973 Analysis Batch Number: 133227

Lab Sample ID: ICV 660-133227/10 Client Sample ID:

Date Analyzed: 01/07/13 17:31 Lab File ID: 1CA07020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:44

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMC5973 Analysis Batch Number: 134719

Lab Sample ID: CCVIS 660-134719/3 Client Sample ID:

Date Analyzed: 02/21/13 11:47 Lab File ID: 1CB21003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/21/13 12:02

Lab Sample ID: LCS 660-134668/2-A Client Sample ID:

Date Analyzed: 02/21/13 12:42 Lab File ID: 1CB21006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/21/13 13:06

Lab Sample ID: 680-87496-28 Client Sample ID: CV0971QQ-CS

Date Analyzed: 02/21/13 13:19 Lab File ID: 1CB21008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/21/13 13:50
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/21/13 13:51
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/21/13 13:51
Benzo[g,h,i]perylene	10.62	Baseline Event	cantins	02/21/13 13:51

Lab Sample ID: 680-87496-28 MS Client Sample ID: CV0971QQ-CS MS

Date Analyzed: 02/21/13 13:37 Lab File ID: 1CB21009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/21/13 13:59

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMC5973 Analysis Batch Number: 134719

Lab Sample ID: 680-87496-28 MSD Client Sample ID: CV0971QQ-CS MSD

Date Analyzed: 02/21/13 13:56 Lab File ID: 1CB21010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/21/13 14:13

Lab Sample ID: 680-87496-26 Client Sample ID: CV0971PP-CS

Date Analyzed: 02/21/13 14:14 Lab File ID: 1CB21011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.69	Analyte Misidentified by the Data System	cantins	02/21/13 17:20
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/21/13 17:20

Lab Sample ID: 680-87496-27 Client Sample ID: CV0971PP-CSD

Date Analyzed: 02/21/13 14:32 Lab File ID: 1CB21012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/21/13 17:20
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/21/13 17:21
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/21/13 17:21

Lab Sample ID: 680-87496-29 Client Sample ID: CV0971RR-CS

Date Analyzed: 02/21/13 14:51 Lab File ID: 1CB21013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthylene	4.82	Baseline Event	cantins	02/21/13 17:21
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/21/13 17:22
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/21/13 17:22
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/21/13 17:22

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMC5973 Analysis Batch Number: 134719

Lab Sample ID: 680-87496-30 Client Sample ID: CV0971SS-CS

Date Analyzed: 02/21/13 15:09 Lab File ID: 1CB21014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.92	Baseline Event	cantins	02/21/13 17:23
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/21/13 17:23
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/21/13 17:23
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/21/13 17:24

Lab Sample ID: 680-87496-31 Client Sample ID: CV0971TT-CS

Date Analyzed: 02/21/13 15:28 Lab File ID: 1CB21015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/21/13 17:24
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/21/13 17:24
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/21/13 17:25

Lab Sample ID: 680-87496-32 Client Sample ID: CV0971AK-GS

Date Analyzed: 02/21/13 15:46 Lab File ID: 1CB21016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/21/13 17:26
Benzo[g,h,i]perylene	10.63	Baseline Event	cantins	02/21/13 17:25

Lab Sample ID: 680-87496-33 Client Sample ID: CV0971AL-GS

Date Analyzed: 02/21/13 16:04 Lab File ID: 1CB21017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/21/13 17:26
Benzo[g,h,i]perylene	10.63	Baseline Event	cantins	02/21/13 17:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMC5973 Analysis Batch Number: 134719

Lab Sample ID: 680-87496-34 Client Sample ID: CV0971AM-GS

Date Analyzed: 02/21/13 16:23 Lab File ID: 1CB21018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/21/13 17:27
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/21/13 17:27
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/21/13 17:28

Lab Sample ID: 680-87496-35 Client Sample ID: CV0971AN-GS

Date Analyzed: 02/21/13 16:41 Lab File ID: 1CB21019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.69	Analyte Misidentified by the Data System	cantins	02/21/13 17:28
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/21/13 17:29
Dibenz(a,h)anthracene	10.27	Baseline Event	cantins	02/21/13 17:29

Lab Sample ID: 680-87496-36 Client Sample ID: CV0971AO-GS

Date Analyzed: 02/21/13 16:59 Lab File ID: 1CB21020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/22/13 09:26
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/22/13 09:26
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/22/13 09:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMC5973 Analysis Batch Number: 134719

Lab Sample ID: 680-87496-37 Client Sample ID: CV0971AP-GS

Date Analyzed: 02/21/13 17:18 Lab File ID: 1CB21021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/22/13 09:27
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/22/13 09:27
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/22/13 09:28
Benzo[g,h,i]perylene	10.63	Baseline Event	cantins	02/22/13 09:27

Lab Sample ID: 680-87496-38 Client Sample ID: CV0971AQ-GS

Date Analyzed: 02/21/13 17:36 Lab File ID: 1CB21022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/22/13 09:28
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/22/13 09:28
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/22/13 09:29

Lab Sample ID: 680-87496-39 Client Sample ID: CV0971AR-GS

Date Analyzed: 02/21/13 17:54 Lab File ID: 1CB21023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthylene	4.82	Baseline Event	cantins	02/22/13 10:16
Acenaphthene	4.92	Baseline Event	cantins	02/22/13 10:16
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/22/13 10:16
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/22/13 10:16
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/22/13 10:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMC5973 Analysis Batch Number: 134719

Lab Sample ID: 680-87496-40 Client Sample ID: CV0971UU-CS

Date Analyzed: 02/21/13 18:12 Lab File ID: 1CB21024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/22/13 10:17
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/22/13 10:17
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/22/13 10:18

Lab Sample ID: LCS 660-134660/2-A Client Sample ID:

Date Analyzed: 02/21/13 20:03 Lab File ID: 1CB21030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/22/13 11:34

Lab Sample ID: 680-87496-A-1-B MS Client Sample ID:

Date Analyzed: 02/21/13 20:39 Lab File ID: 1CB21032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/22/13 11:36

Lab Sample ID: 680-87496-A-1-C MSD Client Sample ID:

Date Analyzed: 02/21/13 20:58 Lab File ID: 1CB21033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/22/13 11:36

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMD5973 Analysis Batch Number: 133192

Lab Sample ID: IC 660-133192/3 Client Sample ID:

Date Analyzed: 01/07/13 10:43 Lab File ID: 1DA07003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	12.89	Baseline Event	cantins	01/07/13 13:45
Indeno[1,2,3-cd]pyrene	15.05	Split Peak	cantins	01/07/13 13:44
Dibenz(a,h)anthracene	15.09	Baseline Event	cantins	01/07/13 13:43
Benzo[g,h,i]perylene	15.51	Baseline Event	cantins	01/07/13 13:43

Lab Sample ID: IC 660-133192/4 Client Sample ID:

Date Analyzed: 01/07/13 11:05 Lab File ID: 1DA07004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.05	Split Peak	cantins	01/07/13 13:45
Dibenz(a,h)anthracene	15.08	Baseline Event	cantins	01/07/13 13:45
Benzo[g,h,i]perylene	15.50	Baseline Event	cantins	01/07/13 13:45

Lab Sample ID: IC 660-133192/5 Client Sample ID:

Date Analyzed: 01/07/13 11:28 Lab File ID: 1DA07005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.05	Split Peak	cantins	01/07/13 13:46
Dibenz(a,h)anthracene	15.08	Baseline Event	cantins	01/07/13 13:47
Benzo[g,h,i]perylene	15.51	Baseline Event	cantins	01/07/13 13:46

Lab Sample ID: IC 660-133192/6 Client Sample ID:

Date Analyzed: 01/07/13 11:50 Lab File ID: 1DA07006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.05	Split Peak	cantins	01/07/13 13:47

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMD5973 Analysis Batch Number: 133192

Lab Sample ID: IC 660-133192/9 Client Sample ID:

Date Analyzed: 01/07/13 12:58 Lab File ID: 1DA07009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	01/07/13 13:48

Lab Sample ID: ICV 660-133192/10 Client Sample ID:

Date Analyzed: 01/07/13 13:20 Lab File ID: 1DA07010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	9.36	Baseline Event	cantins	01/07/13 13:54

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMD5973 Analysis Batch Number: 134722

Lab Sample ID: 680-87496-21 Client Sample ID: CV0971KK-CS

Date Analyzed: 02/21/13 17:36 Lab File ID: 1DB21018.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	02/22/13 12:13

Lab Sample ID: 680-87496-22 Client Sample ID: CV0971LL-CS

Date Analyzed: 02/21/13 17:58 Lab File ID: 1DB21019.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	02/22/13 12:14

Lab Sample ID: 680-87496-23 Client Sample ID: CV0971MM-CS

Date Analyzed: 02/21/13 18:21 Lab File ID: 1DB21020.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	02/22/13 12:15
Benzo[g,h,i]perylene	15.43	Baseline Event	cantins	02/22/13 12:15

Lab Sample ID: 680-87496-24 Client Sample ID: CV0971NN-CS

Date Analyzed: 02/21/13 18:43 Lab File ID: 1DB21021.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	02/22/13 12:16

Lab Sample ID: 680-87496-25 Client Sample ID: CV0971OO-CS

Date Analyzed: 02/21/13 19:06 Lab File ID: 1DB21022.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	02/22/13 12:18
Benzo[g,h,i]perylene	15.43	Baseline Event	cantins	02/22/13 12:17

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.: 680-87496-2

SDG No.: 68087496-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0971KK-CS	680-87496-21	68
CV0971LL-CS	680-87496-22	96
CV0971MM-CS	680-87496-23	58
CV0971NN-CS	680-87496-24	114
CV0971OO-CS	680-87496-25	69
CV0971PP-CS	680-87496-26	75
CV0971PP-CSD	680-87496-27	74
CV0971QQ-CS	680-87496-28	110
CV0971RR-CS	680-87496-29	93
CV0971SS-CS	680-87496-30	88
CV0971TT-CS	680-87496-31	103
CV0971AK-GS	680-87496-32	105
CV0971AL-GS	680-87496-33	94
CV0971AM-GS	680-87496-34	88
CV0971AN-GS	680-87496-35	91
CV0971AO-GS	680-87496-36	98
CV0971AP-GS	680-87496-37	115
CV0971AQ-GS	680-87496-38	98
CV0971AR-GS	680-87496-39	94
CV0971UU-CS	680-87496-40	93
	MB 660-134660/1-A	93
	MB 660-134668/1-A	100
	LCS 660-134660/2-A	87
	LCS 660-134668/2-A	98
	680-87496-A-1-B MS	70
CV0971QQ-CS MS	680-87496-28 MS	98
	680-87496-A-1-C MSD	72
CV0971QQ-CS MSD	680-87496-28 MSD	93

	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.: 680-87496-2

SDG No.: 68087496-2

Matrix: Solid Level: Low Lab File ID: 1CB21030.D

Lab ID: LCS 660-134660/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	669	566	85	39-130	
Acenaphthylene	669	570	85	38-130	
Anthracene	669	566	85	37-130	
Benzo[a]anthracene	669	599	89	40-130	
Benzo[a]pyrene	669	586	88	49-130	
Benzo[b]fluoranthene	669	628	94	37-130	
Benzo[g,h,i]perylene	669	573	86	32-130	
Benzo[k]fluoranthene	669	612	91	32-130	
Chrysene	669	535	80	41-130	
Dibenz(a,h)anthracene	669	562	84	27-130	
Fluoranthene	669	590	88	40-130	
Fluorene	669	538	80	40-130	
Indeno[1,2,3-cd]pyrene	669	569	85	30-130	
1-Methylnaphthalene	669	598	89	31-130	
2-Methylnaphthalene	669	550	82	33-130	
Naphthalene	669	566	85	36-130	
Phenanthrene	669	515	77	42-130	
Pyrene	669	653	98	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.: 680-87496-2

SDG No.: 68087496-2

Matrix: Solid Level: Low Lab File ID: 1CB21006.D

Lab ID: LCS 660-134668/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	666	629	94	39-130	
Acenaphthylene	666	634	95	38-130	
Anthracene	666	617	93	37-130	
Benzo[a]anthracene	666	656	98	40-130	
Benzo[a]pyrene	666	646	97	49-130	
Benzo[b]fluoranthene	666	670	101	37-130	
Benzo[g,h,i]perylene	666	638	96	32-130	
Benzo[k]fluoranthene	666	622	93	32-130	
Chrysene	666	589	88	41-130	
Dibenz(a,h)anthracene	666	676	101	27-130	
Fluoranthene	666	686	103	40-130	
Fluorene	666	618	93	40-130	
Indeno[1,2,3-cd]pyrene	666	618	93	30-130	
1-Methylnaphthalene	666	655	98	31-130	
2-Methylnaphthalene	666	603	90	33-130	
Naphthalene	666	599	90	36-130	
Phenanthrene	666	565	85	42-130	
Pyrene	666	654	98	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.: 680-87496-2

SDG No.: 68087496-2

Matrix: Solid Level: Low Lab File ID: 1CB21032.D

Lab ID: 680-87496-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	969	150 U	663	68	39-130	
Acenaphthylene	969	76	763	71	38-130	
Anthracene	969	66	778	73	37-130	
Benzo[a]anthracene	969	430	1180	77	40-130	
Benzo[a]pyrene	969	430	1170	76	49-130	
Benzo[b]fluoranthene	969	670	1430	79	37-130	
Benzo[g,h,i]perylene	969	290	1010	74	32-130	
Benzo[k]fluoranthene	969	240	1090	88	32-130	
Chrysene	969	420	1150	75	41-130	
Dibenz(a,h)anthracene	969	85	702	64	27-130	
Fluoranthene	969	720	1590	90	40-130	
Fluorene	969	24 J	680	68	40-130	
Indeno[1,2,3-cd]pyrene	969	270	900	65	30-130	
1-Methylnaphthalene	969	110	884	80	31-130	
2-Methylnaphthalene	969	130	842	74	33-130	
Naphthalene	969	130	787	68	36-130	
Phenanthrene	969	330	1070	76	42-130	
Pyrene	969	720	1600	91	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.: 680-87496-2

SDG No.: 68087496-2

Matrix: Solid Level: Low Lab File ID: 1CB21009.D

Lab ID: 680-87496-28 MS Client ID: CV0971QQ-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1090	160 U	1090	100	39-130	
Acenaphthylene	1090	53 J	1080	94	38-130	
Anthracene	1090	72	1270	110	37-130	
Benzo[a]anthracene	1090	420	2040	149	40-130	F
Benzo[a]pyrene	1090	450	2030	145	49-130	F
Benzo[b]fluoranthene	1090	720	2500	163	37-130	F
Benzo[g,h,i]perylene	1090	350	1670	120	32-130	
Benzo[k]fluoranthene	1090	210	1830	148	32-130	F
Chrysene	1090	490	1850	125	41-130	
Dibenz(a,h)anthracene	1090	90	1180	100	27-130	
Fluoranthene	1090	820	3340	231	40-130	F
Fluorene	1090	24 J	1020	91	40-130	
Indeno[1,2,3-cd]pyrene	1090	270	1640	125	30-130	
1-Methylnaphthalene	1090	96	1200	101	31-130	
2-Methylnaphthalene	1090	86	1090	92	33-130	
Naphthalene	1090	110	1080	89	36-130	
Phenanthrene	1090	340	2200	170	42-130	F
Pyrene	1090	700	2940	205	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 DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Matrix: Solid Level: Low Lab File ID: 1CB21033.D

Lab ID: 680-87496-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	969	751	77	12	40	39-130	
Acenaphthylene	969	918	87	18	40	38-130	
Anthracene	969	846	80	8	40	37-130	
Benzo[a]anthracene	969	1280	88	8	40	40-130	
Benzo[a]pyrene	969	1230	82	5	40	49-130	
Benzo[b]fluoranthene	969	1610	97	11	40	37-130	
Benzo[g,h,i]perylene	969	1050	78	4	40	32-130	
Benzo[k]fluoranthene	969	957	74	13	40	32-130	
Chrysene	969	1220	83	6	40	41-130	
Dibenz(a,h)anthracene	969	745	68	6	40	27-130	
Fluoranthene	969	1530	84	3	40	40-130	
Fluorene	969	765	76	12	40	40-130	
Indeno[1,2,3-cd]pyrene	969	866	62	4	40	30-130	
1-Methylnaphthalene	969	943	86	7	40	31-130	
2-Methylnaphthalene	969	926	82	9	40	33-130	
Naphthalene	969	923	82	16	40	36-130	
Phenanthrene	969	1030	72	4	40	42-130	
Pyrene	969	1690	100	5	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.: 680-87496-2

SDG No.: 68087496-2

Matrix: Solid Level: Low Lab File ID: 1CB21010.D

Lab ID: 680-87496-28 MSD Client ID: CV0971QQ-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1090	963	88	13	40	39-130	
Acenaphthylene	1090	1040	90	5	40	38-130	
Anthracene	1090	1010	86	23	40	37-130	
Benzo[a]anthracene	1090	1300	80	45	40	40-130	F
Benzo[a]pyrene	1090	1310	79	43	40	49-130	F
Benzo[b]fluoranthene	1090	1560	77	46	40	37-130	F
Benzo[g,h,i]perylene	1090	1160	74	36	40	32-130	
Benzo[k]fluoranthene	1090	1100	81	50	40	32-130	F
Chrysene	1090	1190	65	43	40	41-130	F
Dibenz(a,h)anthracene	1090	1080	90	9	40	27-130	
Fluoranthene	1090	1490	62	76	40	40-130	F
Fluorene	1090	957	85	6	40	40-130	
Indeno[1,2,3-cd]pyrene	1090	1210	86	30	40	30-130	
1-Methylnaphthalene	1090	1170	99	2	40	31-130	
2-Methylnaphthalene	1090	1120	95	3	40	33-130	
Naphthalene	1090	1080	89	0	40	36-130	
Phenanthrene	1090	1180	77	60	40	42-130	F
Pyrene	1090	1510	74	64	40	44-130	F

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.: 680-87496-2

SDG No.: 68087496-2

Lab File ID: 1CB21029.D Lab Sample ID: MB 660-134660/1-A

Matrix: Solid Date Extracted: 02/20/2013 11:26

Instrument ID: BSMC5973 Date Analyzed: 02/21/2013 19:44

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
CV0971KK-CS	680-87496-21	1DB21018.D	02/21/2013 17:36
CV0971LL-CS	680-87496-22	1DB21019.D	02/21/2013 17:58
CV0971MM-CS	680-87496-23	1DB21020.D	02/21/2013 18:21
CV0971NN-CS	680-87496-24	1DB21021.D	02/21/2013 18:43
CV0971OO-CS	680-87496-25	1DB21022.D	02/21/2013 19:06
	LCS 660-134660/2-A	1CB21030.D	02/21/2013 20:03
	680-87496-A-1-B MS	1CB21032.D	02/21/2013 20:39
	680-87496-A-1-C MSD	1CB21033.D	02/21/2013 20:58

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Lab File ID: 1CB21005.D Lab Sample ID: MB 660-134668/1-A

Matrix: Solid Date Extracted: 02/20/2013 13:23

Instrument ID: BSMC5973 Date Analyzed: 02/21/2013 12:24

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134668/2-A	1CB21006.D	02/21/2013 12:42
CV0971QQ-CS	680-87496-28	1CB21008.D	02/21/2013 13:19
CV0971QQ-CS MS	680-87496-28 MS	1CB21009.D	02/21/2013 13:37
CV0971QQ-CS MSD	680-87496-28 MSD	1CB21010.D	02/21/2013 13:56
CV0971PP-CS	680-87496-26	1CB21011.D	02/21/2013 14:14
CV0971PP-CSD	680-87496-27	1CB21012.D	02/21/2013 14:32
CV0971RR-CS	680-87496-29	1CB21013.D	02/21/2013 14:51
CV0971SS-CS	680-87496-30	1CB21014.D	02/21/2013 15:09
CV0971TT-CS	680-87496-31	1CB21015.D	02/21/2013 15:28
CV0971AK-GS	680-87496-32	1CB21016.D	02/21/2013 15:46
CV0971AL-GS	680-87496-33	1CB21017.D	02/21/2013 16:04
CV0971AM-GS	680-87496-34	1CB21018.D	02/21/2013 16:23
CV0971AN-GS	680-87496-35	1CB21019.D	02/21/2013 16:41
CV0971AO-GS	680-87496-36	1CB21020.D	02/21/2013 16:59
CV0971AP-GS	680-87496-37	1CB21021.D	02/21/2013 17:18
CV0971AQ-GS	680-87496-38	1CB21022.D	02/21/2013 17:36
CV0971AR-GS	680-87496-39	1CB21023.D	02/21/2013 17:54
CV0971UU-CS	680-87496-40	1CB21024.D	02/21/2013 18:12

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Lab File ID: 1CA07002.D DFTPP Injection Date: 01/07/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:23

Analysis Batch No.: 133227

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	32.5	
68	Less than 2.0 % of mass 69	0.4	(1.1)1
69	Mass 69 relative abundance	39.9	
70	Less than 2.0 % of mass 69	0.4	(1.0)1
127	10.0 - 80.0 % of mass 198	46.8	
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	6.2	
275	10.0 - 60.0 % of mass 198	23.0	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	13.3	
442	Greater than 50.0 % of mass 198	90.1	
443	15.0 - 24.0 % of mass 442	17.2	(19.1)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 660-133227/3	1CA07013.D	01/07/2013	15:23
	IC 660-133227/4	1CA07014.D	01/07/2013	15:41
	IC 660-133227/5	1CA07015.D	01/07/2013	15:59
	IC 660-133227/6	1CA07016.D	01/07/2013	16:18
	ICIS 660-133227/7	1CA07017.D	01/07/2013	16:36
	IC 660-133227/8	1CA07018.D	01/07/2013	16:54
	IC 660-133227/9	1CA07019.D	01/07/2013	17:13
	ICV 660-133227/10	1CA07020.D	01/07/2013	17:31

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Lab File ID: 1CB21002.D DFTPP Injection Date: 02/21/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:30

Analysis Batch No.: 134719

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	31.8	
68	Less than 2.0 % of mass 69	0.7	(1.7)1
69	Mass 69 relative abundance	40.6	
70	Less than 2.0 % of mass 69	0.1	(0.2)1
127	10.0 - 80.0 % of mass 198	42.3	
197	Less than 2.0 % of mass 198	0.8	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.9	
275	10.0 - 60.0 % of mass 198	22.5	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	14.1	
442	Greater than 50.0 % of mass 198	93.9	
443	15.0 - 24.0 % of mass 442	18.8	(20.1)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 660-134719/3	1CB21003.D	02/21/2013	11:47
	MB 660-134668/1-A	1CB21005.D	02/21/2013	12:24
	LCS 660-134668/2-A	1CB21006.D	02/21/2013	12:42
CV0971QQ-CS	680-87496-28	1CB21008.D	02/21/2013	13:19
CV0971QQ-CS MS	680-87496-28 MS	1CB21009.D	02/21/2013	13:37
CV0971QQ-CS MSD	680-87496-28 MSD	1CB21010.D	02/21/2013	13:56
CV0971PP-CS	680-87496-26	1CB21011.D	02/21/2013	14:14
CV0971PP-CSD	680-87496-27	1CB21012.D	02/21/2013	14:32
CV0971RR-CS	680-87496-29	1CB21013.D	02/21/2013	14:51
CV0971SS-CS	680-87496-30	1CB21014.D	02/21/2013	15:09
CV0971TT-CS	680-87496-31	1CB21015.D	02/21/2013	15:28
CV0971AK-GS	680-87496-32	1CB21016.D	02/21/2013	15:46
CV0971AL-GS	680-87496-33	1CB21017.D	02/21/2013	16:04
CV0971AM-GS	680-87496-34	1CB21018.D	02/21/2013	16:23
CV0971AN-GS	680-87496-35	1CB21019.D	02/21/2013	16:41
CV0971AO-GS	680-87496-36	1CB21020.D	02/21/2013	16:59
CV0971AP-GS	680-87496-37	1CB21021.D	02/21/2013	17:18
CV0971AQ-GS	680-87496-38	1CB21022.D	02/21/2013	17:36
CV0971AR-GS	680-87496-39	1CB21023.D	02/21/2013	17:54
CV0971UU-CS	680-87496-40	1CB21024.D	02/21/2013	18:12
	MB 660-134660/1-A	1CB21029.D	02/21/2013	19:44
	LCS 660-134660/2-A	1CB21030.D	02/21/2013	20:03
	680-87496-A-1-B MS	1CB21032.D	02/21/2013	20:39

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Lab File ID: 1CB21002.D DFTPP Injection Date: 02/21/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:30

Analysis Batch No.: 134719

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	31.8	
68	Less than 2.0 % of mass 69	0.7	(1.7)1
69	Mass 69 relative abundance	40.6	
70	Less than 2.0 % of mass 69	0.1	(0.2)1
127	10.0 - 80.0 % of mass 198	42.3	
197	Less than 2.0 % of mass 198	0.8	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.9	
275	10.0 - 60.0 % of mass 198	22.5	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	14.1	
442	Greater than 50.0 % of mass 198	93.9	
443	15.0 - 24.0 % of mass 442	18.8	(20.1)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
	680-87496-A-1-C MSD	1CB21033.D	02/21/2013	20:58

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Lab File ID: 1DA07002.D DFTPP Injection Date: 01/07/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 09:59

Analysis Batch No.: 133192

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	44.2	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	46.8	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	50.7	
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	6.5	
275	10.0 - 60.0 % of mass 198	25.1	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	2.1	
442	Greater than 50.0 % of mass 198	67.6	
443	15.0 - 24.0 % of mass 442	13.6	(20.1)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 660-133192/3	1DA07003.D	01/07/2013	10:43
	IC 660-133192/4	1DA07004.D	01/07/2013	11:05
	IC 660-133192/5	1DA07005.D	01/07/2013	11:28
	IC 660-133192/6	1DA07006.D	01/07/2013	11:50
	ICIS 660-133192/7	1DA07007.D	01/07/2013	12:13
	IC 660-133192/8	1DA07008.D	01/07/2013	12:36
	IC 660-133192/9	1DA07009.D	01/07/2013	12:58
	ICV 660-133192/10	1DA07010.D	01/07/2013	13:20

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Lab File ID: 1DB21002.D DFTPP Injection Date: 02/21/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:40

Analysis Batch No.: 134722

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	48.2	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	49.7	
70	Less than 2.0 % of mass 69	0.3	(0.7)1
127	10.0 - 80.0 % of mass 198	52.8	
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	6.6	
275	10.0 - 60.0 % of mass 198	24.9	
365	Greater than 1.0 % of mass 198	2.5	
441	Present but less than mass 443	9.7	
442	Greater than 50.0 % of mass 198	61.1	
443	15.0 - 24.0 % of mass 442	11.7	(19.1)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 660-134722/3	1DB21003.D	02/21/2013	11:57
CV0971KK-CS	680-87496-21	1DB21018.D	02/21/2013	17:36
CV0971LL-CS	680-87496-22	1DB21019.D	02/21/2013	17:58
CV0971MM-CS	680-87496-23	1DB21020.D	02/21/2013	18:21
CV0971NN-CS	680-87496-24	1DB21021.D	02/21/2013	18:43
CV0971OO-CS	680-87496-25	1DB21022.D	02/21/2013	19:06

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Sample No.: ICIS 660-133227/7 Date Analyzed: 01/07/2013 16:36

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

Lab File ID (Standard): 1CA07017.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2194838	3.87	1653478	4.96	3141284	5.92
UPPER LIMIT		4389676	4.37	3306956	5.46	6282568	6.42
LOWER LIMIT		1097419	3.37	826739	4.46	1570642	5.42
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133227/10		2417094	3.87	1838803	4.96	3573060	5.92

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.: 680-87496-2

SDG No.: 68087496-2

Sample No.: ICIS 660-133227/7 Date Analyzed: 01/07/2013 16:36

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

Lab File ID (Standard): 1CA07017.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		3787207	7.87	3790527	9.11		
UPPER LIMIT		7574414	8.37	7581054	9.61		
LOWER LIMIT		1893604	7.37	1895264	8.61		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133227/10		4267463	7.87	4342564	9.12		

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.: 680-87496-2

SDG No.: 68087496-2

Sample No.: CCVIS 660-134719/3 Date Analyzed: 02/21/2013 11:47

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

Lab File ID (Standard): 1CB21003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2244779	3.81	1725884	4.90	3414107	5.86
UPPER LIMIT		4489558	4.31	3451768	5.40	6828214	6.36
LOWER LIMIT		1122390	3.31	862942	4.40	1707054	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134668/1-A		1403372	3.81	1052948	4.90	2058614	5.86
LCS 660-134668/2-A		1435517	3.81	1139256	4.90	2227952	5.86
680-87496-28	CV0971QQ-CS	1643387	3.81	1275454	4.90	2324007	5.86
680-87496-28 MS	CV0971QQ-CS MS	1828675	3.81	1387822	4.90	2467610	5.86
680-87496-28 MSD	CV0971QQ-CS MSD	1736451	3.81	1345891	4.90	2440815	5.86
680-87496-26	CV0971PP-CS	1788691	3.81	1357233	4.90	2397796	5.86
680-87496-27	CV0971PP-CSD	1771791	3.81	1338359	4.90	2405817	5.86
680-87496-29	CV0971RR-CS	1710307	3.81	1284785	4.90	2336777	5.86
680-87496-30	CV0971SS-CS	1624105	3.81	1242792	4.90	2294085	5.86
680-87496-31	CV0971TT-CS	1638008	3.81	1223024	4.90	2150543	5.86
680-87496-32	CV0971AK-GS	1779958	3.81	1365748	4.90	2437384	5.86
680-87496-33	CV0971AL-GS	1874031	3.81	1451483	4.90	2560863	5.86
680-87496-34	CV0971AM-GS	1800041	3.81	1340876	4.90	2418856	5.86
680-87496-35	CV0971AN-GS	1742302	3.81	1340868	4.90	2405424	5.86
680-87496-36	CV0971AO-GS	1698632	3.81	1324100	4.90	2350713	5.86
680-87496-37	CV0971AP-GS	1694808	3.81	1296698	4.90	2344824	5.86
680-87496-38	CV0971AQ-GS	1770251	3.81	1346448	4.90	2453043	5.86
680-87496-39	CV0971AR-GS	1545764	3.81	1218635	4.90	2306053	5.86
680-87496-40	CV0971UU-CS	1770802	3.81	1352703	4.90	2413549	5.86
MB 660-134660/1-A		1724948	3.81	1301872	4.90	2440753	5.86
LCS 660-134660/2-A		1731452	3.81	1358499	4.90	2477054	5.86
680-87496-A-1-B MS		1848516	3.81	1374482	4.90	2417625	5.86
680-87496-A-1-C MSD		1798217	3.81	1368581	4.90	2525977	5.86

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.: 680-87496-2

SDG No.: 68087496-2

Sample No.: CCVIS 660-134719/3 Date Analyzed: 02/21/2013 11:47

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

Lab File ID (Standard): 1CB21003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4147916	7.81	4112157	9.04		
UPPER LIMIT		8295832	8.31	8224314	9.54		
LOWER LIMIT		2073958	7.31	2056079	8.54		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134668/1-A		2470657	7.81	2521551	9.03		
LCS 660-134668/2-A		2649640	7.81	2710208	9.03		
680-87496-28	CV0971QQ-CS	2505394	7.81	2493087	9.03		
680-87496-28 MS	CV0971QQ-CS MS	2710073	7.81	2564136	9.03		
680-87496-28 MSD	CV0971QQ-CS MSD	2644939	7.81	2517891	9.03		
680-87496-26	CV0971PP-CS	2600839	7.81	2544238	9.03		
680-87496-27	CV0971PP-CSD	2588064	7.81	2508038	9.03		
680-87496-29	CV0971RR-CS	2453274	7.81	2418139	9.03		
680-87496-30	CV0971SS-CS	2630014	7.81	2518909	9.03		
680-87496-31	CV0971TT-CS	2334463	7.81	2270781	9.03		
680-87496-32	CV0971AK-GS	2468731	7.81	2322424	9.03		
680-87496-33	CV0971AL-GS	2634293	7.81	2479757	9.03		
680-87496-34	CV0971AM-GS	2559348	7.81	2369549	9.03		
680-87496-35	CV0971AN-GS	2493242	7.81	2332941	9.03		
680-87496-36	CV0971AO-GS	2424624	7.81	2264918	9.03		
680-87496-37	CV0971AP-GS	2448925	7.81	2298757	9.03		
680-87496-38	CV0971AQ-GS	2607142	7.81	2437073	9.03		
680-87496-39	CV0971AR-GS	2478992	7.81	2258254	9.03		
680-87496-40	CV0971UU-CS	2534098	7.81	2384238	9.03		
MB 660-134660/1-A		2536904	7.81	2325921	9.03		
LCS 660-134660/2-A		2657559	7.81	2428256	9.03		
680-87496-A-1-B MS		2539484	7.81	2292850	9.03		
680-87496-A-1-C MSD		2507161	7.81	2311860	9.04		

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.: 680-87496-2

SDG No.: 68087496-2

Sample No.: ICIS 660-133192/7 Date Analyzed: 01/07/2013 12:13

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

Lab File ID (Standard): 1DA07007.D Heated Purge: (Y/N) N

Calibration ID: 2662

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2894220	6.23	1692196	7.90	2742443	9.16
UPPER LIMIT		5788440	6.73	3384392	8.40	5484886	9.66
LOWER LIMIT		1447110	5.73	846098	7.40	1371222	8.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133192/10		2887037	6.24	1699245	7.91	2845473	9.16

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.: 680-87496-2

SDG No.: 68087496-2

Sample No.: ICIS 660-133192/7 Date Analyzed: 01/07/2013 12:13

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

Lab File ID (Standard): 1DA07007.D Heated Purge: (Y/N) N

Calibration ID: 2662

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2671554	11.52	2767955	13.42		
UPPER LIMIT		5343108	12.02	5535910	13.92		
LOWER LIMIT		1335777	11.02	1383978	12.92		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133192/10		2715172	11.53	2800784	13.42		

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.: 680-87496-2

SDG No.: 68087496-2

Sample No.: CCVIS 660-134722/3 Date Analyzed: 02/21/2013 11:57

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

Lab File ID (Standard): 1DB21003.D Heated Purge: (Y/N) N

Calibration ID: 2662

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4805924	6.20	2903448	7.86	4784360	9.13
UPPER LIMIT		9611848	6.70	5806896	8.36	9568720	9.63
LOWER LIMIT		2402962	5.70	1451724	7.36	2392180	8.63
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87496-21	CV0971KK-CS	3297193	6.19	1997218	7.86	3240925	9.12
680-87496-22	CV0971LL-CS	3092888	6.19	1901675	7.86	3108785	9.12
680-87496-23	CV0971MM-CS	3326052	6.19	2009623	7.86	3303692	9.12
680-87496-24	CV0971NN-CS	3131786	6.19	1862688	7.86	3090767	9.12
680-87496-25	CV0971OO-CS	3314630	6.19	1974792	7.86	3284415	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.: 680-87496-2

SDG No.: 68087496-2

Sample No.: CCVIS 660-134722/3 Date Analyzed: 02/21/2013 11:57

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

Lab File ID (Standard): 1DB21003.D Heated Purge: (Y/N) N

Calibration ID: 2662

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4876621	11.48	5208006	13.36		
UPPER LIMIT		9753242	11.98	10416012	13.86		
LOWER LIMIT		2438311	10.98	2604003	12.86		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87496-21	CV0971KK-CS	3251895	11.47	3284940	13.35		
680-87496-22	CV0971LL-CS	3100179	11.47	3101489	13.35		
680-87496-23	CV0971MM-CS	3243487	11.47	3217780	13.36		
680-87496-24	CV0971NN-CS	3019936	11.47	3026119	13.35		
680-87496-25	CV0971OO-CS	3257914	11.47	3170314	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.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971KK-CS | Lab Sample ID: 680-87496-21

Matrix: Solid | Lab File ID: 1DB21018.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 10:18

Extract. Method: 3546 | Date Extracted: 02/20/2013 11:26

Sample wt/vol: 15.30(g) | Date Analyzed: 02/21/2013 17:36

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

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

% Moisture: 41.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	41	J	170	33
208-96-8	Acenaphthylene	60	J	67	8.3
120-12-7	Anthracene	130		14	7.0
56-55-3	Benzo[a]anthracene	340		13	6.5
50-32-8	Benzo[a]pyrene	330		17	8.7
205-99-2	Benzo[b]fluoranthene	590		20	10
191-24-2	Benzo[g,h,i]perylene	200		33	7.3
207-08-9	Benzo[k]fluoranthene	170		13	6.0
218-01-9	Chrysene	430		15	7.5
53-70-3	Dibenz(a,h)anthracene	62		33	6.8
206-44-0	Fluoranthene	820		33	6.7
86-73-7	Fluorene	37		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	200		33	12
90-12-0	1-Methylnaphthalene	130		67	7.3
91-57-6	2-Methylnaphthalene	140		67	12
91-20-3	Naphthalene	140		67	7.3
85-01-8	Phenanthrene	500		13	6.5
129-00-0	Pyrene	640		33	6.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21018.D
Lab Smp Id: 680-87496-A-21-A Client Smp ID: CV0971KK-CS
Inj Date : 21-FEB-2013 17:36
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-21-A
Misc Info : 680-87496-A-21-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 18
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	15.300	Weight Extracted
M	41.071	% 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	6.192	6.195	(1.000)	3297193	40.0000	
* 6 Acenaphthene-d10	164	7.860	7.863	(1.000)	1997218	40.0000	
* 9 Phenanthrene-d10	188	9.124	9.127	(1.000)	3240925	40.0000	
$ 13 o-Terphenyl	230	9.429	9.432	(1.033)	329586	6.84921	760
* 17 Chrysene-d12	240	11.468	11.477	(1.000)	3251895	40.0000	
* 22 Perylene-d12	264	13.354	13.363	(1.000)	3284940	40.0000	
2 Naphthalene	128	6.209	6.212	(1.003)	113739	1.30438	140
3 2-Methylnaphthalene	142	6.909	6.912	(1.116)	68976	1.24546	140
4 1-Methylnaphthalene	142	7.003	7.006	(1.131)	60024	1.15224	130
5 Acenaphthylene	152	7.731	7.734	(0.984)	46876	0.54362	60
7 Acenaphthene	154	7.884	7.893	(1.003)	19371	0.36835	41
8 Fluorene	166	8.325	8.333	(1.059)	20968	0.33557	37
10 Phenanthrene	178	9.141	9.144	(1.002)	420606	4.54265	500
11 Anthracene	178	9.177	9.185	(1.006)	102341	1.12813	120

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.312	9.320	(1.021)	49874	0.62073	69
14 Fluoranthene	202	10.123	10.125	(1.109)	684234	7.37741	820
15 Pyrene	202	10.311	10.313	(0.899)	581627	5.72844	640
16 Benzo(a)anthracene	228	11.450	11.447	(0.998)	287792	3.02554	340
18 Chrysene	228	11.492	11.500	(1.002)	358413	3.91040	430
19 Benzo(b)fluoranthene	252	12.790	12.793	(0.958)	441576	5.29543	590
20 Benzo(k)fluoranthene	252	12.819	12.840	(0.960)	134845	1.53091	170
21 Benzo(a)pyrene	252	13.248	13.263	(0.992)	246801	3.00185	330
23 Indeno(1,2,3-cd)pyrene	276	14.970	14.990	(1.121)	156450	1.78280	200(M)
24 Dibenzo(a,h)anthracene	278	14.999	15.026	(1.123)	44887	0.55742	62
25 Benzo(g,h,i)perylene	276	15.428	15.460	(1.155)	150675	1.79457	200

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DB21018.D

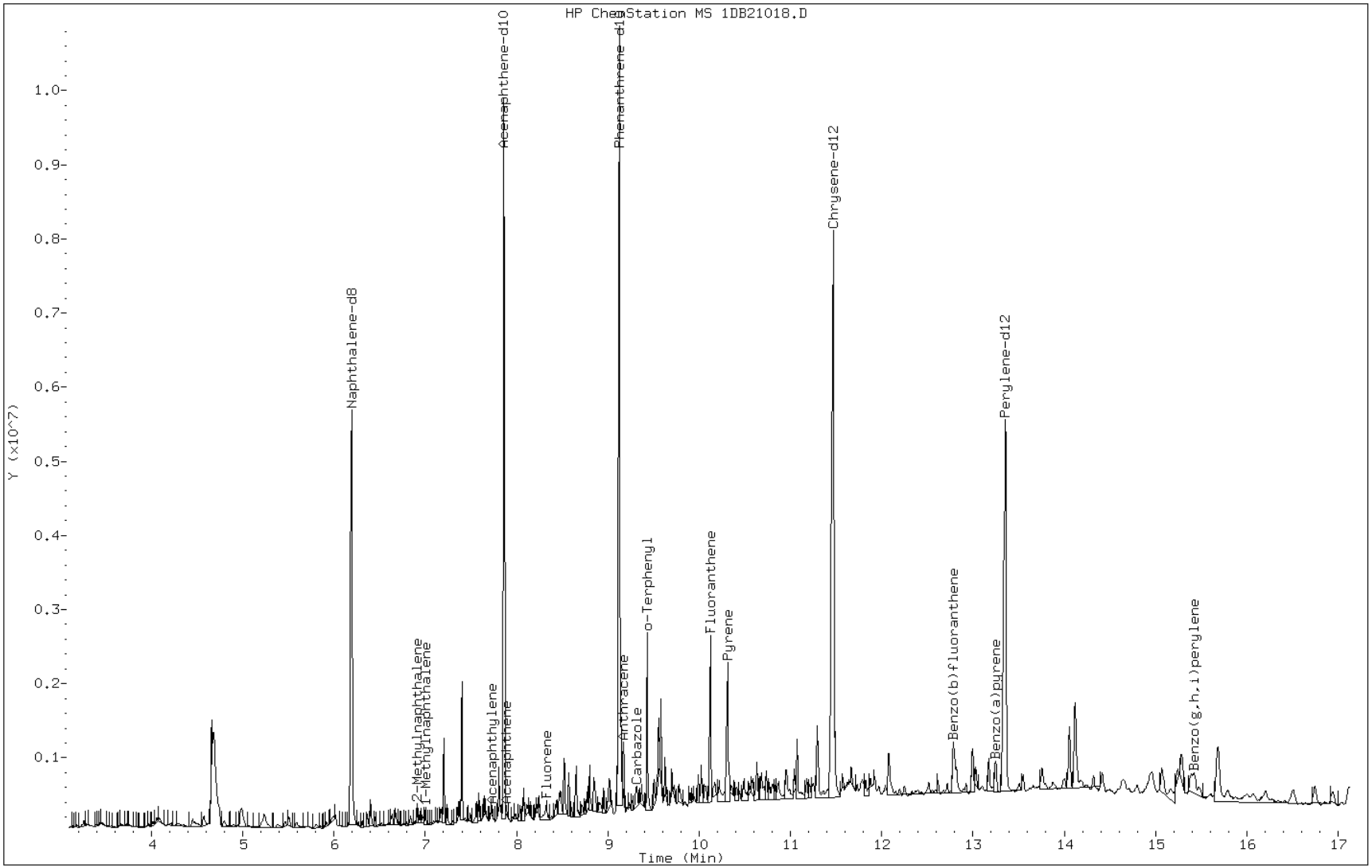
Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS

Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A

Operator: SCC



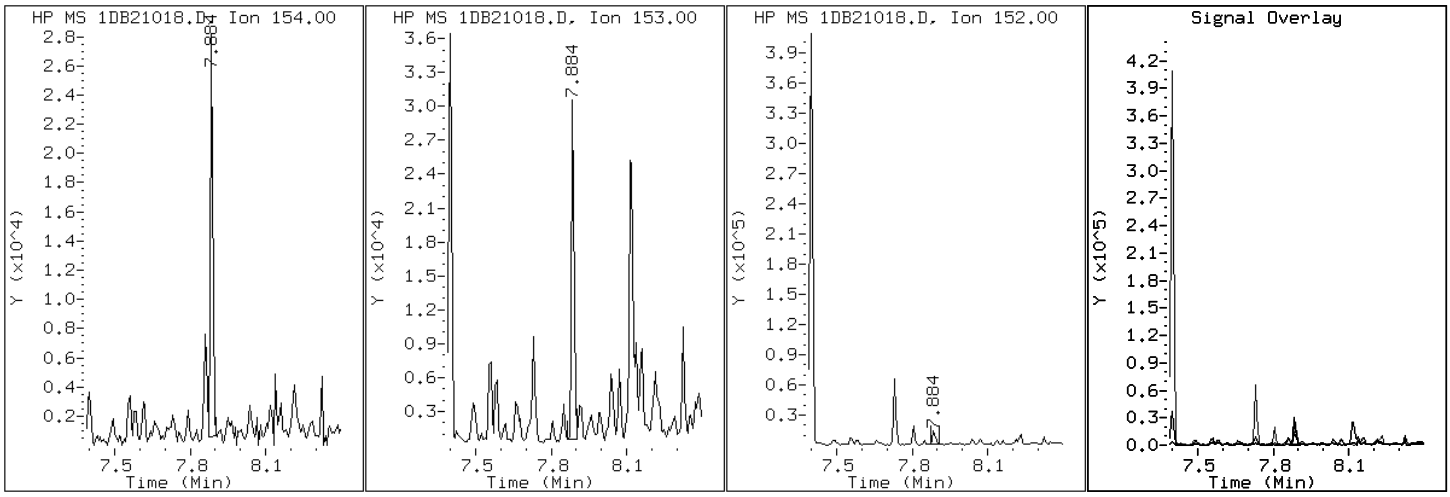
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

7 Acenaphthene



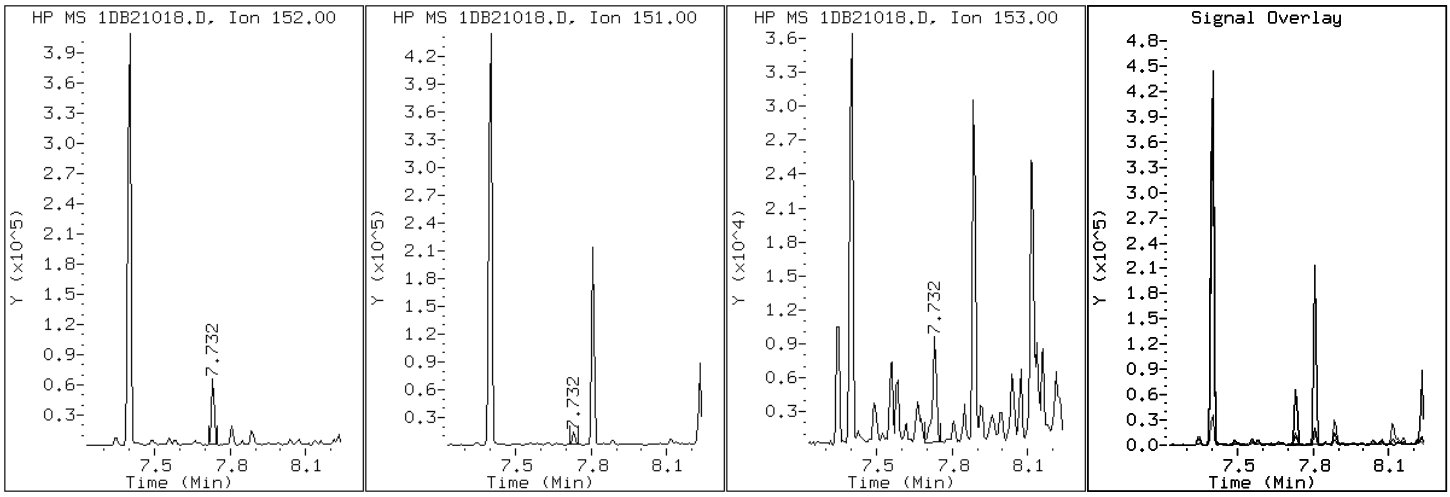
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

5 Acenaphthylene



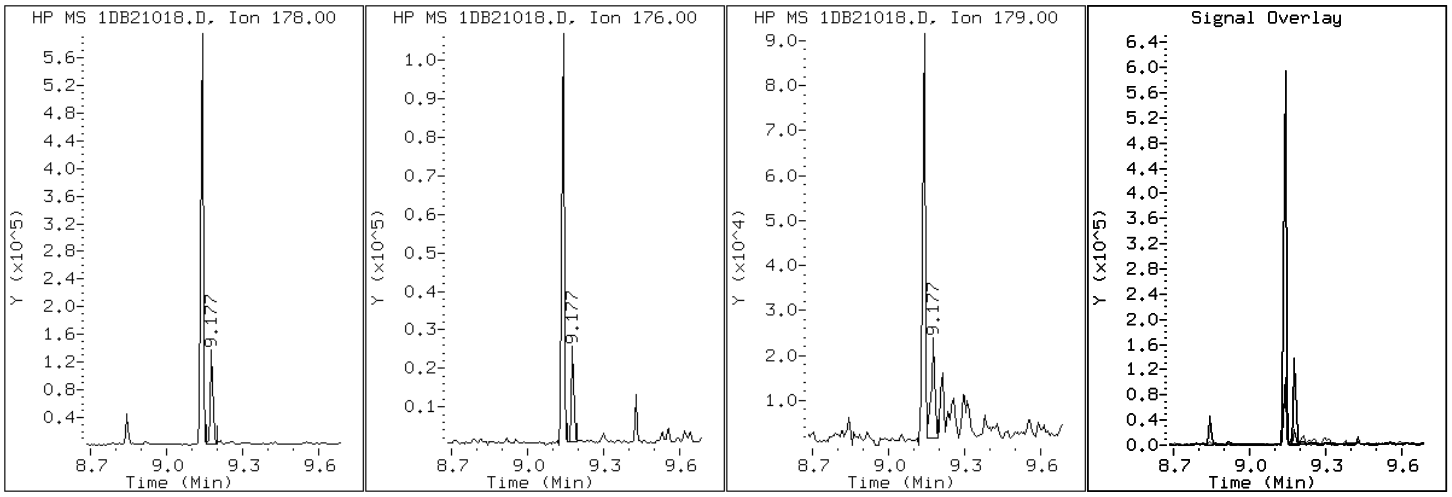
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

11 Anthracene



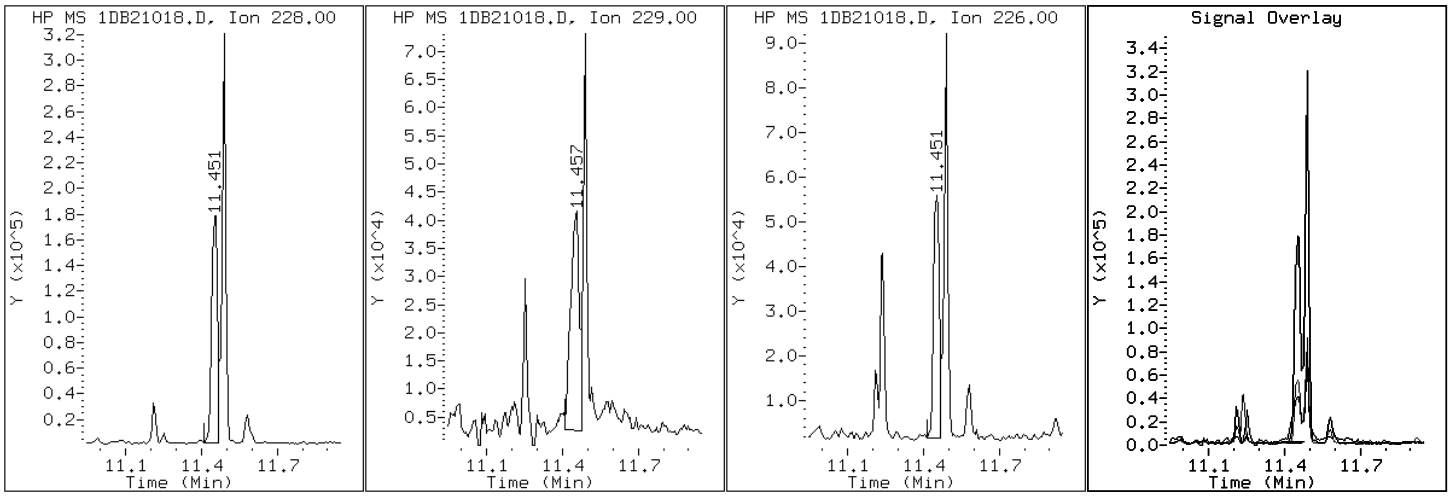
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

16 Benzo(a)anthracene



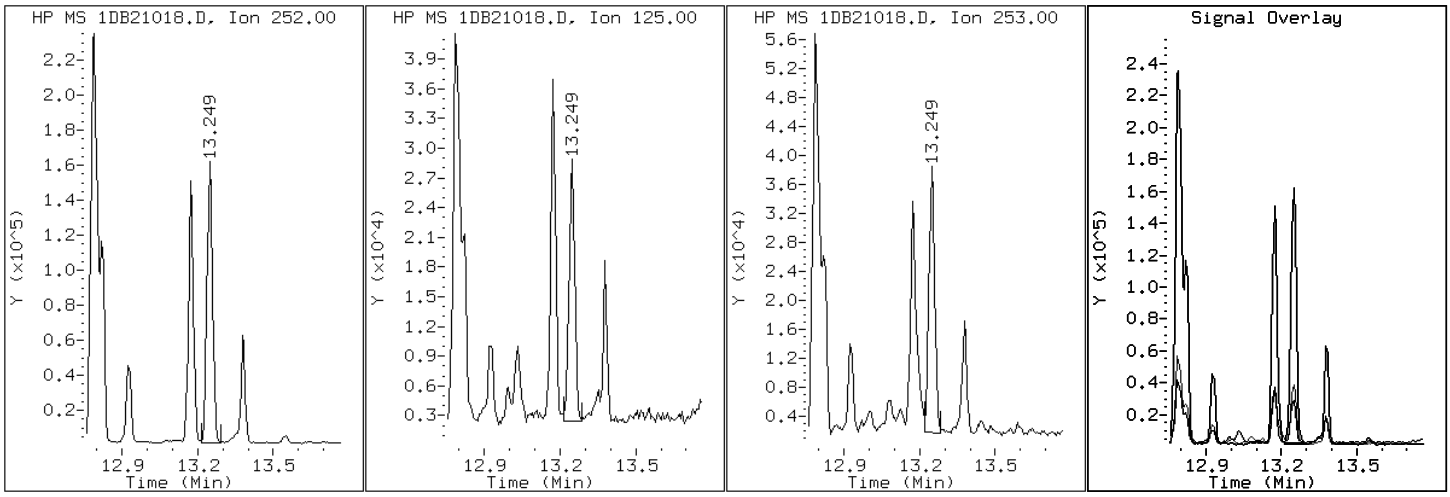
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

21 Benzo(a)pyrene



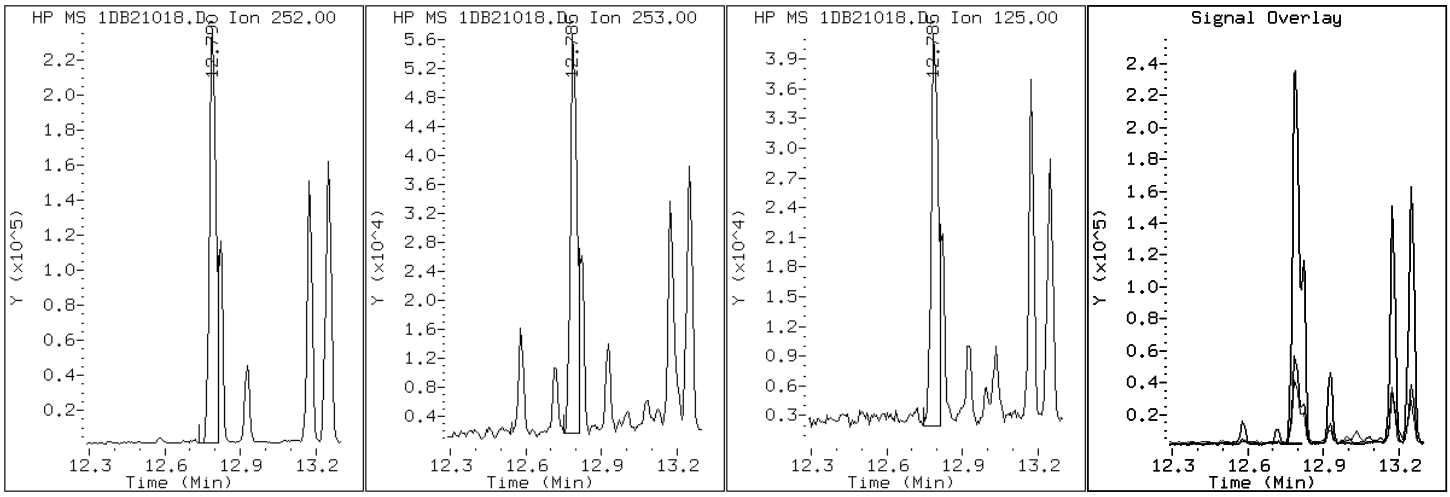
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

19 Benzo(b)fluoranthene



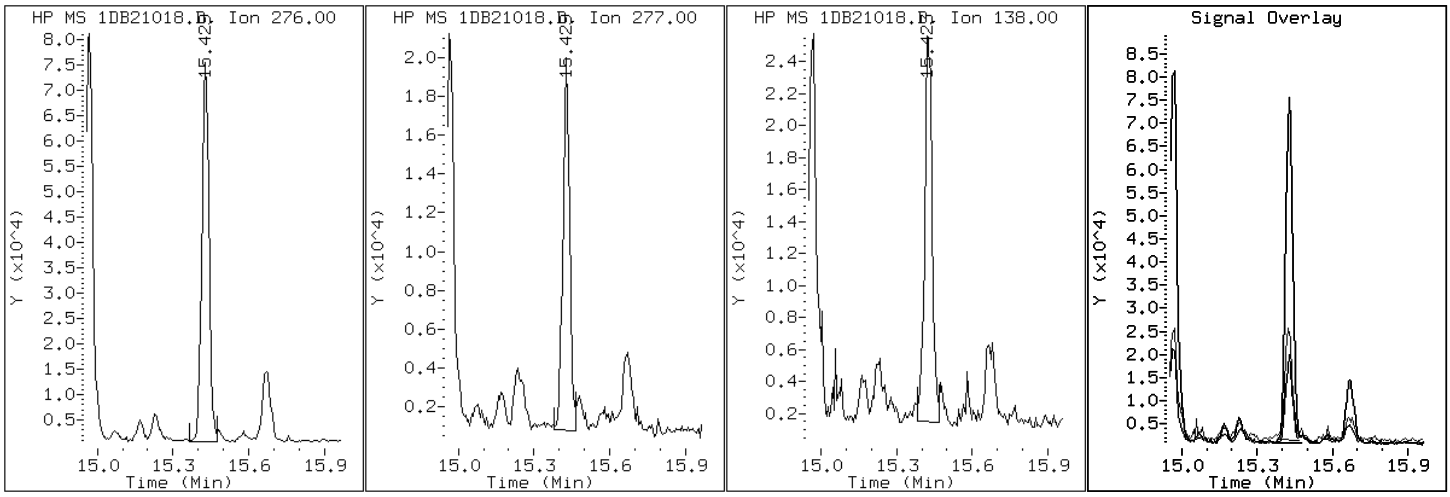
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

25 Benzo(g,h,i)perylene



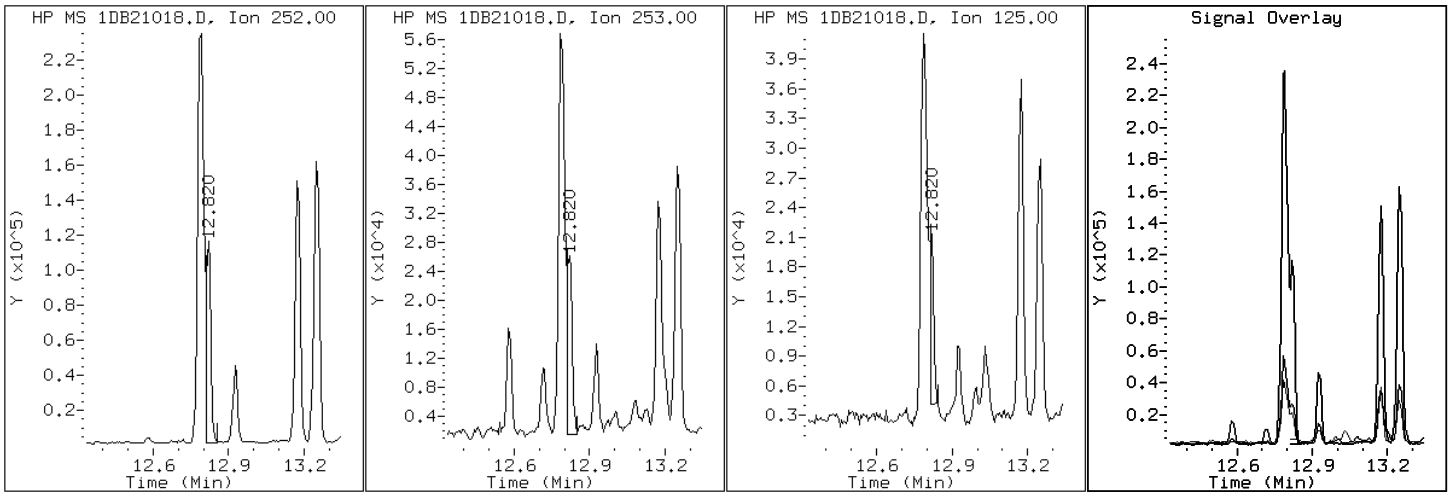
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

20 Benzo(k)fluoranthene



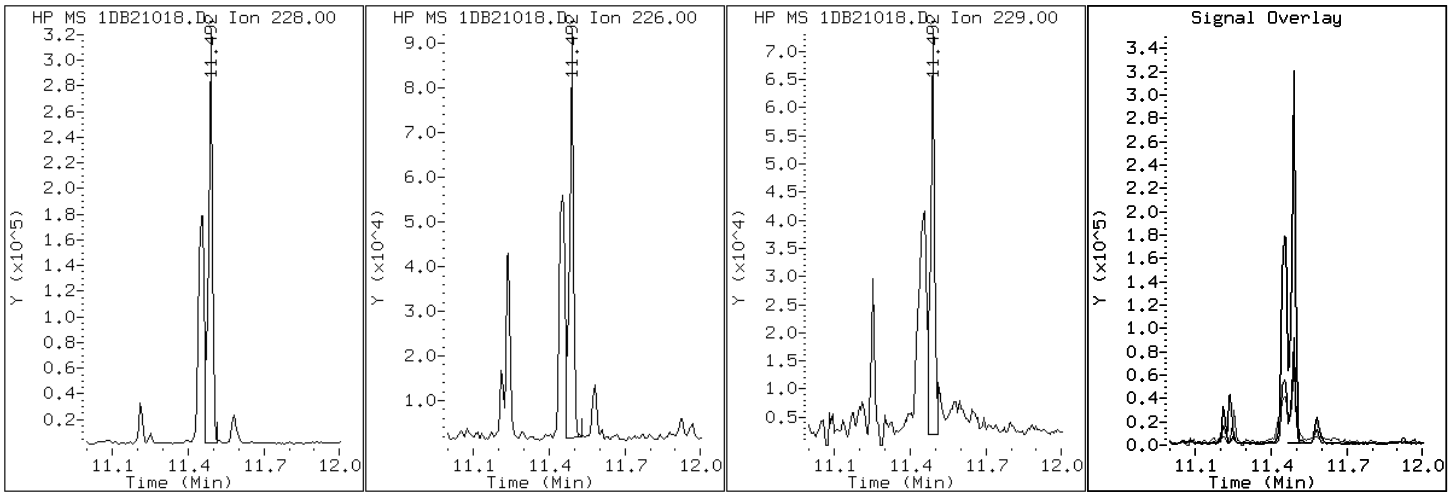
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

18 Chrysene



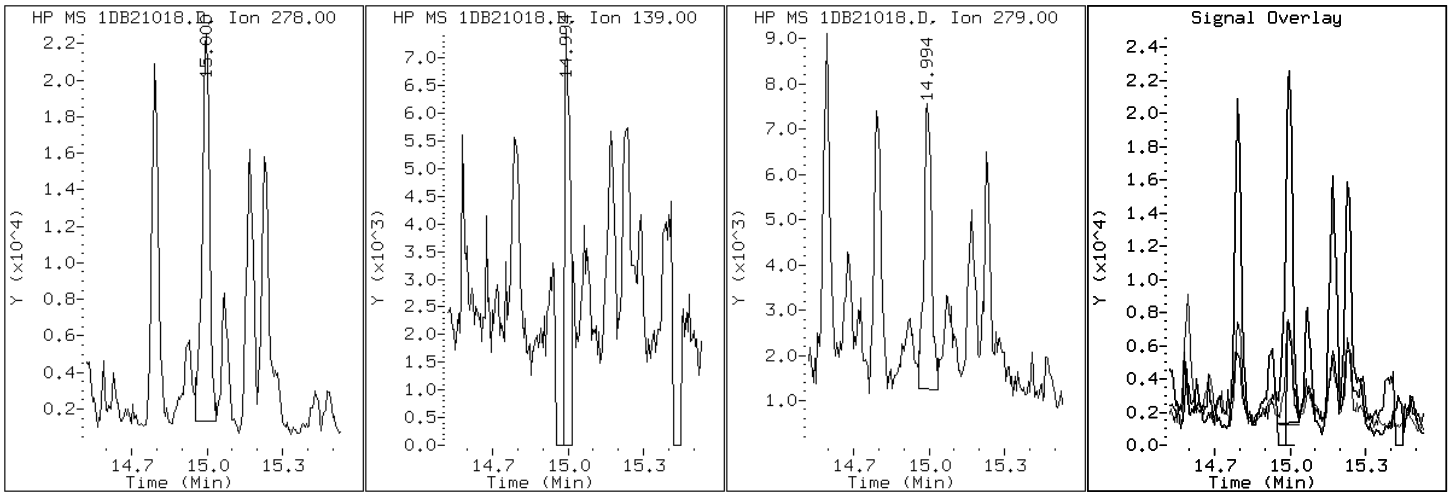
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

24 Dibenzo(a,h)anthracene



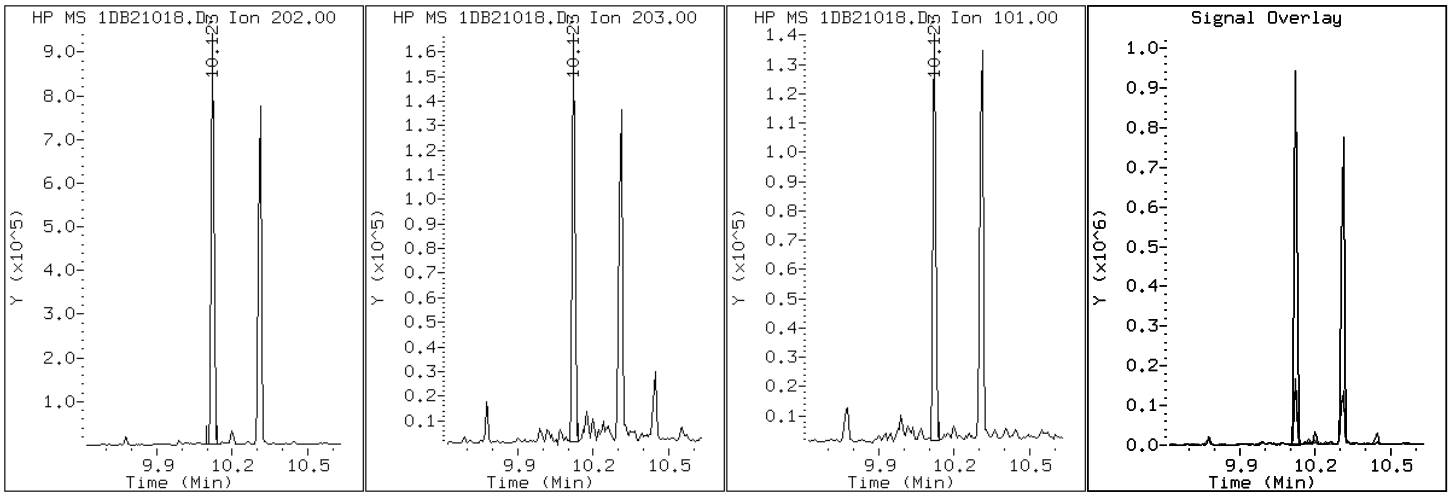
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

14 Fluoranthene



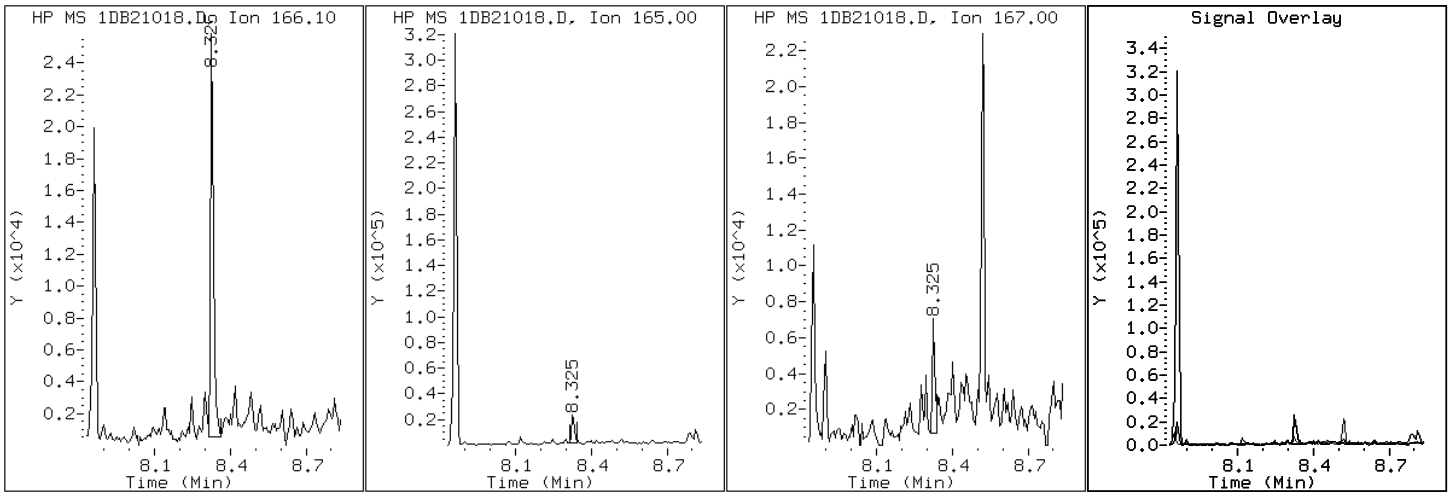
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

8 Fluorene



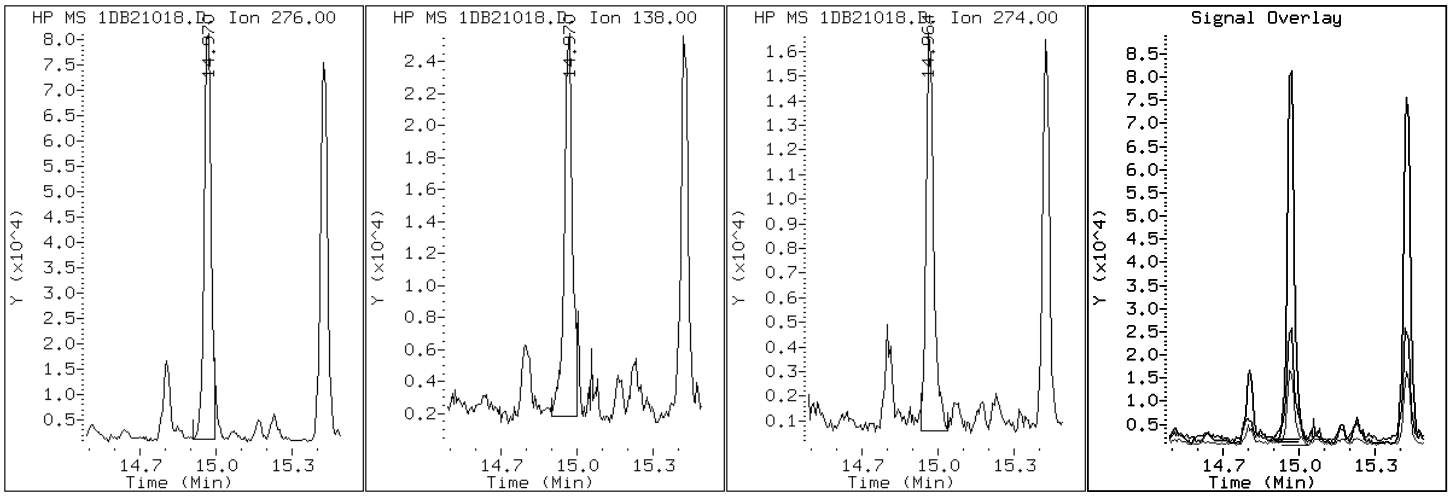
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

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



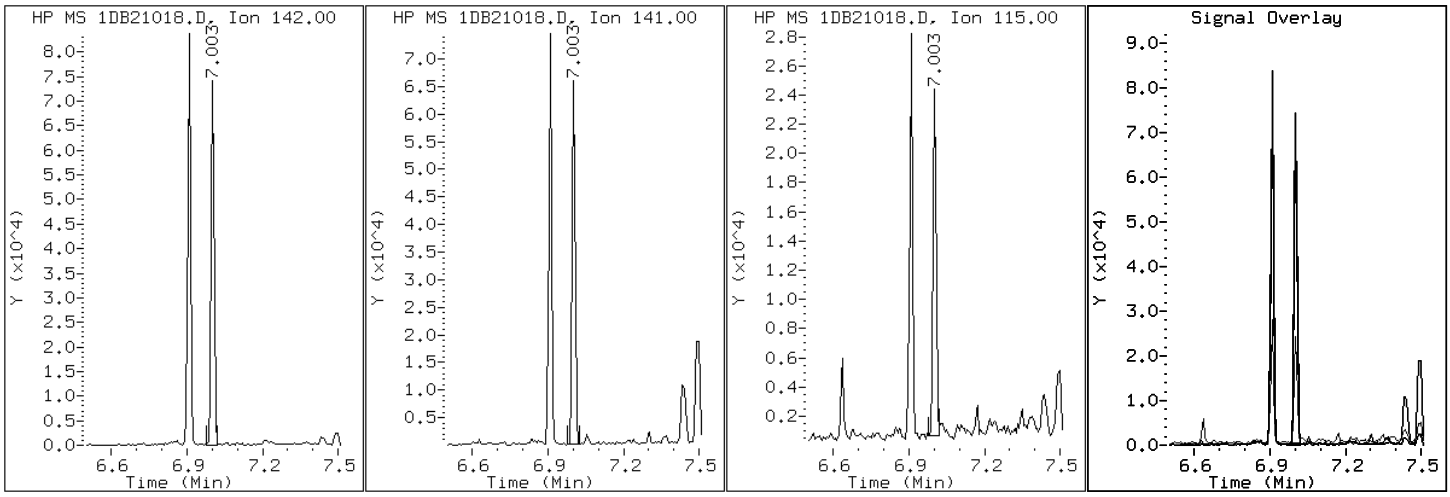
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

4 1-Methylnaphthalene



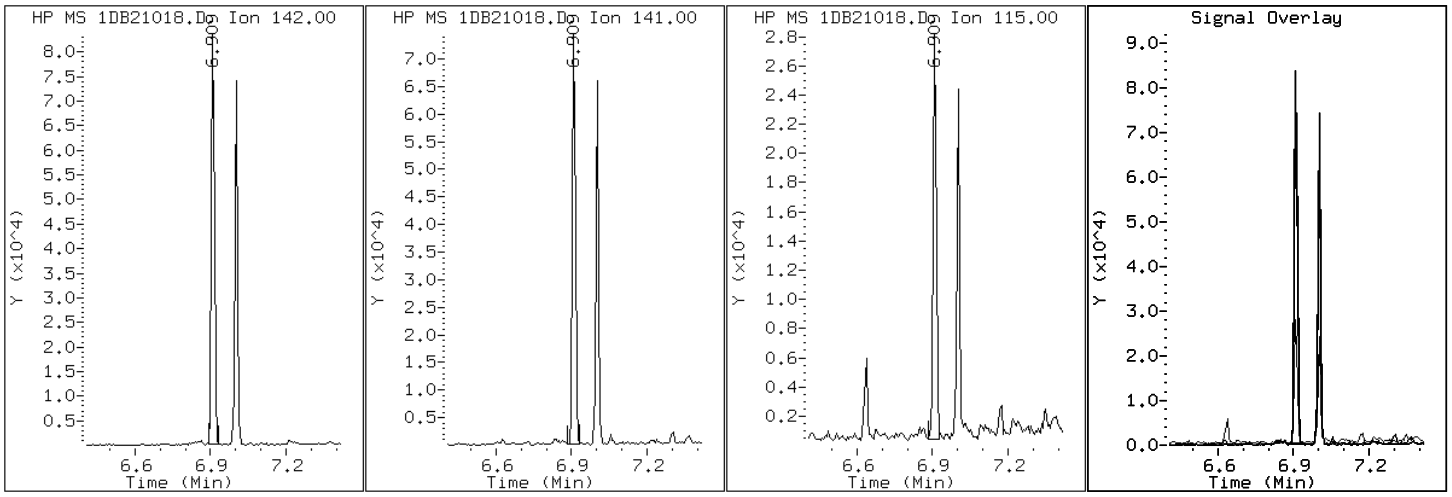
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

3 2-Methylnaphthalene



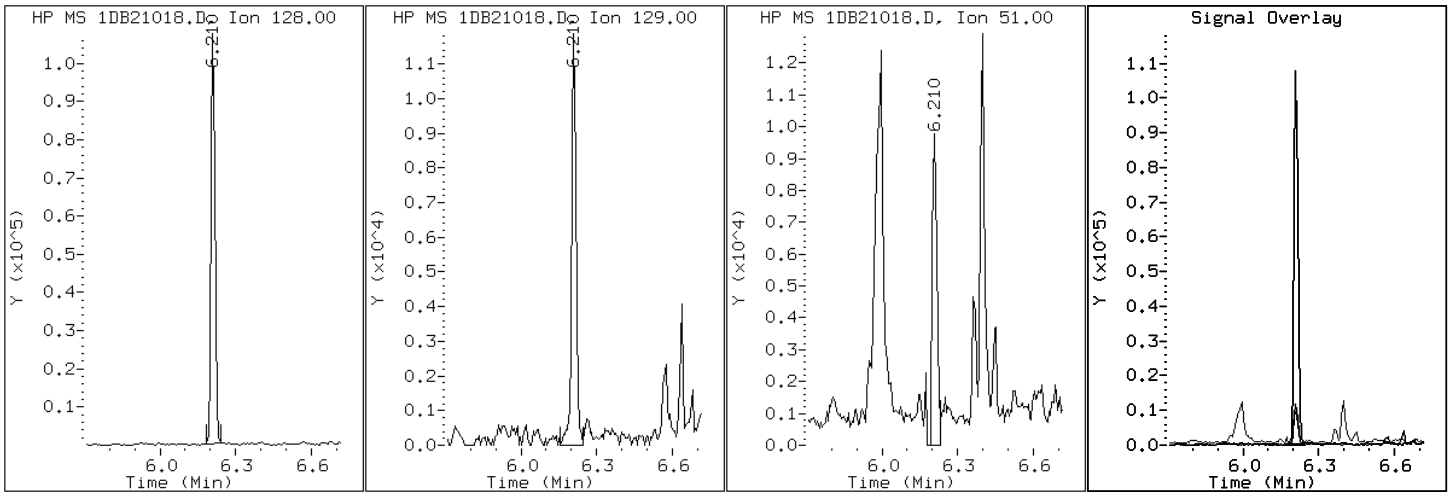
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

2 Naphthalene



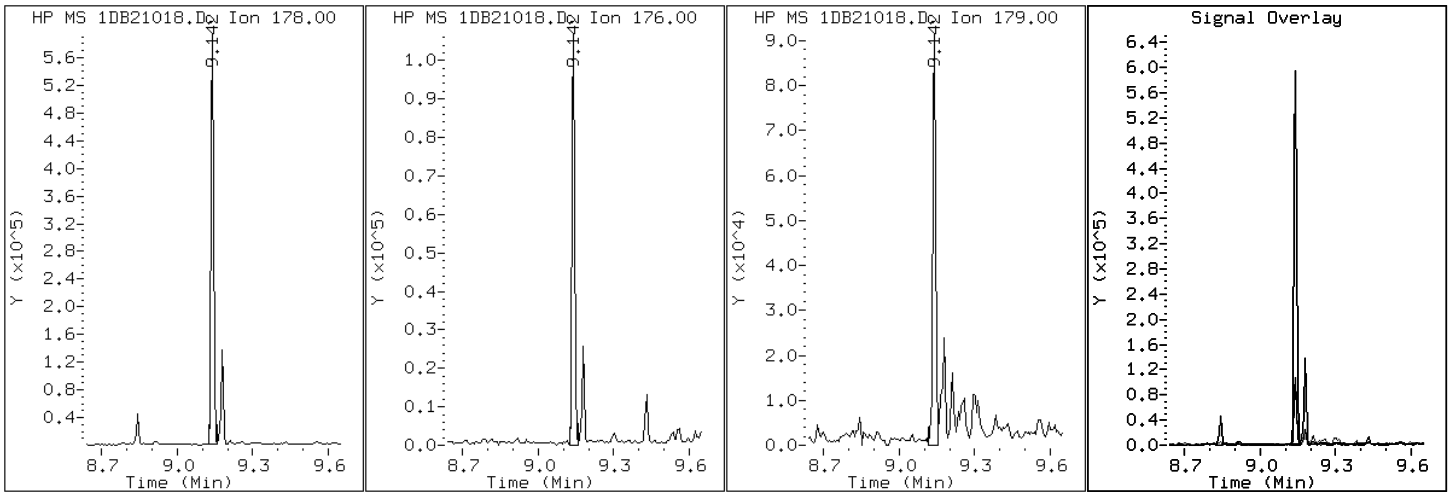
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

10 Phenanthrene



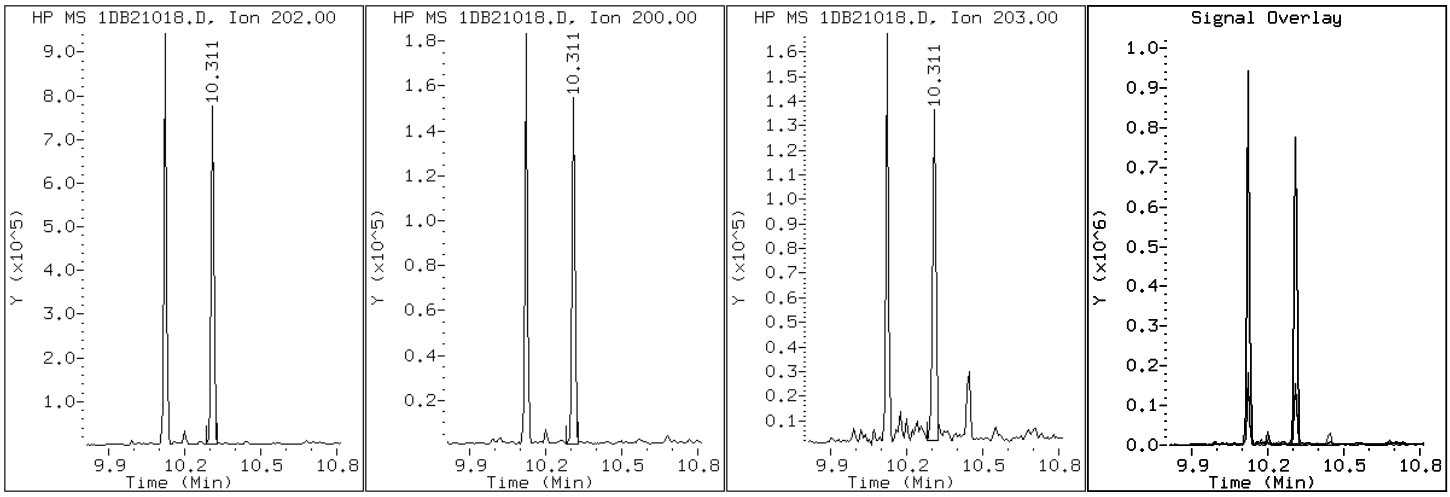
Data File: 1DB21018.D

Date: 21-FEB-2013 17:36

Client ID: CV0971KK-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-21-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB21018.D
Inj. Date and Time: 21-FEB-2013 17:36
Instrument ID: BSMSD.i
Client ID: CV0971KK-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

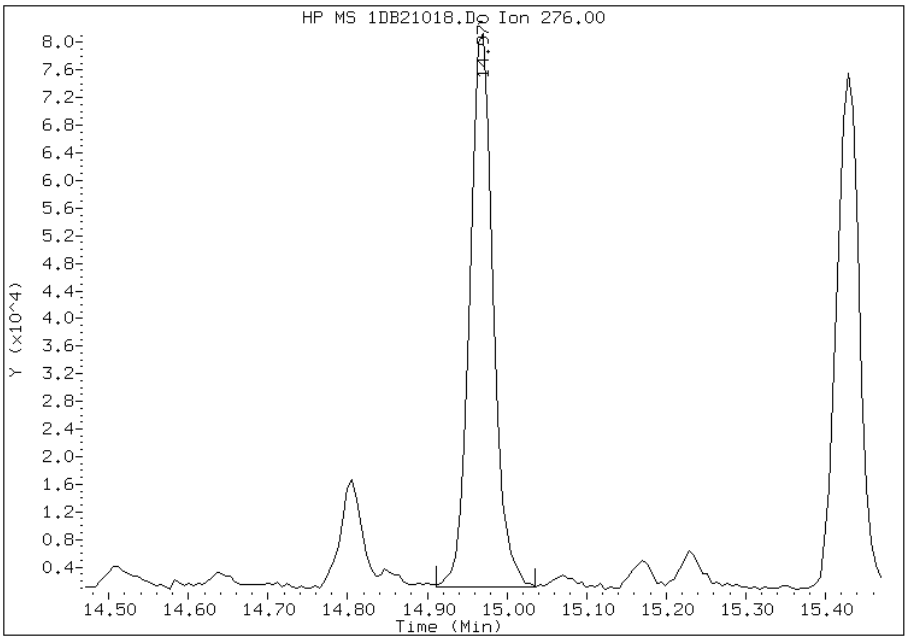
Processing Integration Results

RT: 14.97

Response: 163412

Amount: 2

Conc: 207



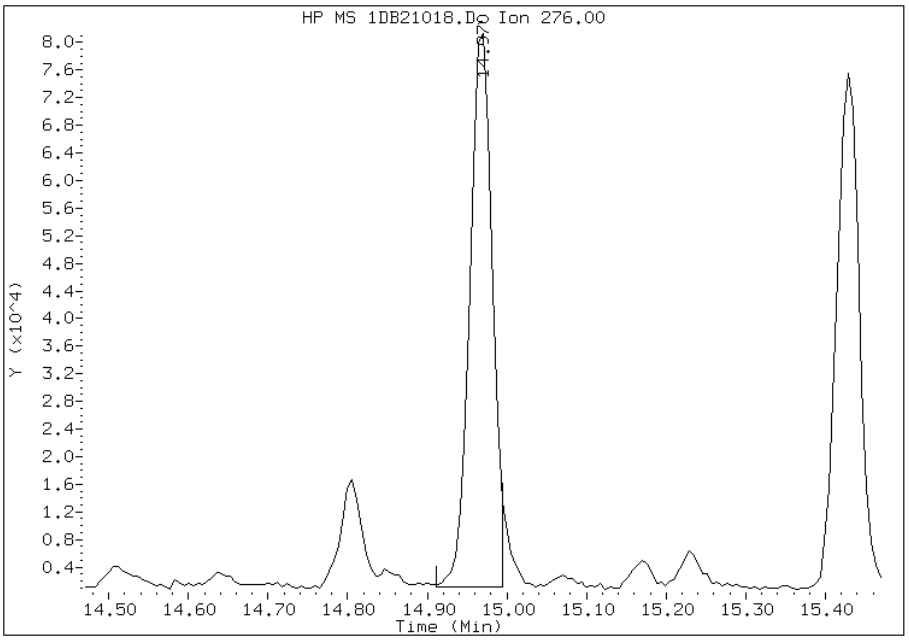
Manual Integration Results

RT: 14.97

Response: 156450

Amount: 2

Conc: 198



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971LL-CS | Lab Sample ID: 680-87496-22

Matrix: Solid | Lab File ID: 1DB21019.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 10:22

Extract. Method: 3546 | Date Extracted: 02/20/2013 11:26

Sample wt/vol: 15.06(g) | Date Analyzed: 02/21/2013 17:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

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

% Moisture: 35.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	610	U	610	120
208-96-8	Acenaphthylene	200	J	250	31
120-12-7	Anthracene	190		52	26
56-55-3	Benzo[a]anthracene	730		49	24
50-32-8	Benzo[a]pyrene	800		64	32
205-99-2	Benzo[b]fluoranthene	1300		75	37
191-24-2	Benzo[g,h,i]perylene	510		120	27
207-08-9	Benzo[k]fluoranthene	480		49	22
218-01-9	Chrysene	910		55	28
53-70-3	Dibenz(a,h)anthracene	160		120	25
206-44-0	Fluoranthene	1400		120	25
86-73-7	Fluorene	51	J	120	25
193-39-5	Indeno[1,2,3-cd]pyrene	480		120	44
90-12-0	1-Methylnaphthalene	200	J	250	27
91-57-6	2-Methylnaphthalene	230	J	250	44
91-20-3	Naphthalene	210	J	250	27
85-01-8	Phenanthrene	640		49	24
129-00-0	Pyrene	1200		120	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	96		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21019.D
Lab Smp Id: 680-87496-A-22-A Client Smp ID: CV0971LL-CS
Inj Date : 21-FEB-2013 17:58
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-22-A
Misc Info : 680-87496-A-22-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 19
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	15.060	Weight Extracted
M	35.135	% 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	6.192	6.195	(1.000)	3092888	40.0000	
* 6 Acenaphthene-d10	164	7.860	7.863	(1.000)	1901675	40.0000	
* 9 Phenanthrene-d10	188	9.124	9.127	(1.000)	3108785	40.0000	
$ 13 o-Terphenyl	230	9.429	9.432	(1.033)	111224	2.40962	990
* 17 Chrysene-d12	240	11.468	11.477	(1.000)	3100179	40.0000	
* 22 Perylene-d12	264	13.354	13.363	(1.000)	3101489	40.0000	
2 Naphthalene	128	6.209	6.212	(1.003)	42865	0.52406	210
3 2-Methylnaphthalene	142	6.909	6.912	(1.116)	28955	0.55736	230
4 1-Methylnaphthalene	142	7.003	7.006	(1.131)	24280	0.49688	200
5 Acenaphthylene	152	7.731	7.734	(0.984)	40639	0.49497	200
8 Fluorene	166	8.325	8.333	(1.059)	7409	0.12453	51
10 Phenanthrene	178	9.141	9.144	(1.002)	139149	1.56672	640
11 Anthracene	178	9.176	9.185	(1.006)	40287	0.46297	190
12 Carbazole	167	9.312	9.320	(1.021)	18653	0.24202	99

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.122	10.125	(1.109)	294008	3.30474	1400
15 Pyrene	202	10.310	10.313	(0.899)	272322	2.81335	1200
16 Benzo(a)anthracene	228	11.450	11.447	(0.998)	161011	1.77554	730
18 Chrysene	228	11.491	11.500	(1.002)	194000	2.22018	910
19 Benzo(b)fluoranthene	252	12.784	12.793	(0.957)	253581	3.22084	1300
20 Benzo(k)fluoranthene	252	12.819	12.840	(0.960)	98332	1.18241	480
21 Benzo(a)pyrene	252	13.242	13.263	(0.992)	151787	1.95539	800
23 Indeno(1,2,3-cd)pyrene	276	14.964	14.990	(1.121)	96608	1.16600	480(M)
24 Dibenzo(a,h)anthracene	278	14.987	15.026	(1.122)	29514	0.38819	160
25 Benzo(g,h,i)perylene	276	15.422	15.460	(1.155)	99074	1.24979	510

QC Flag Legend

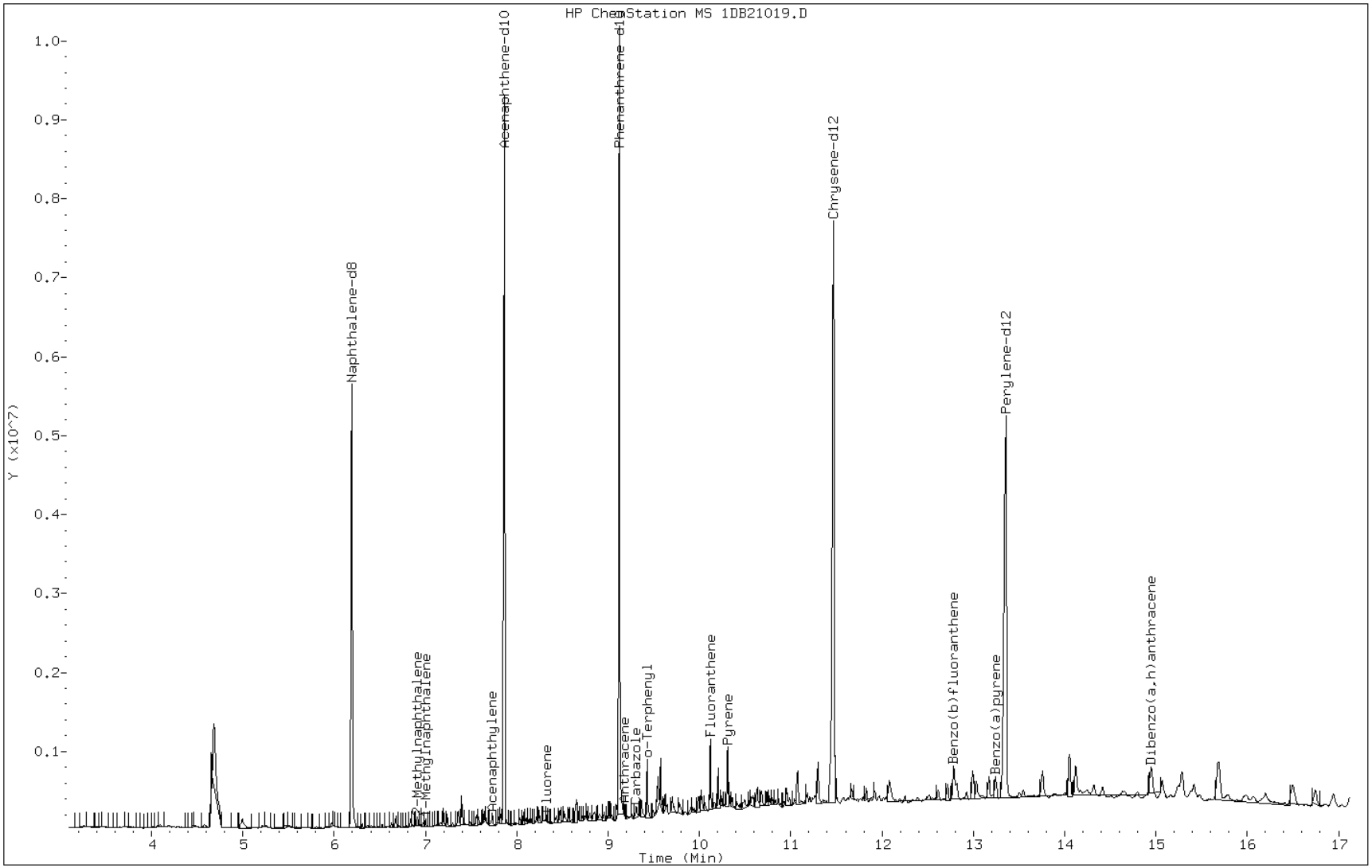
M - Compound response manually integrated.

Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC



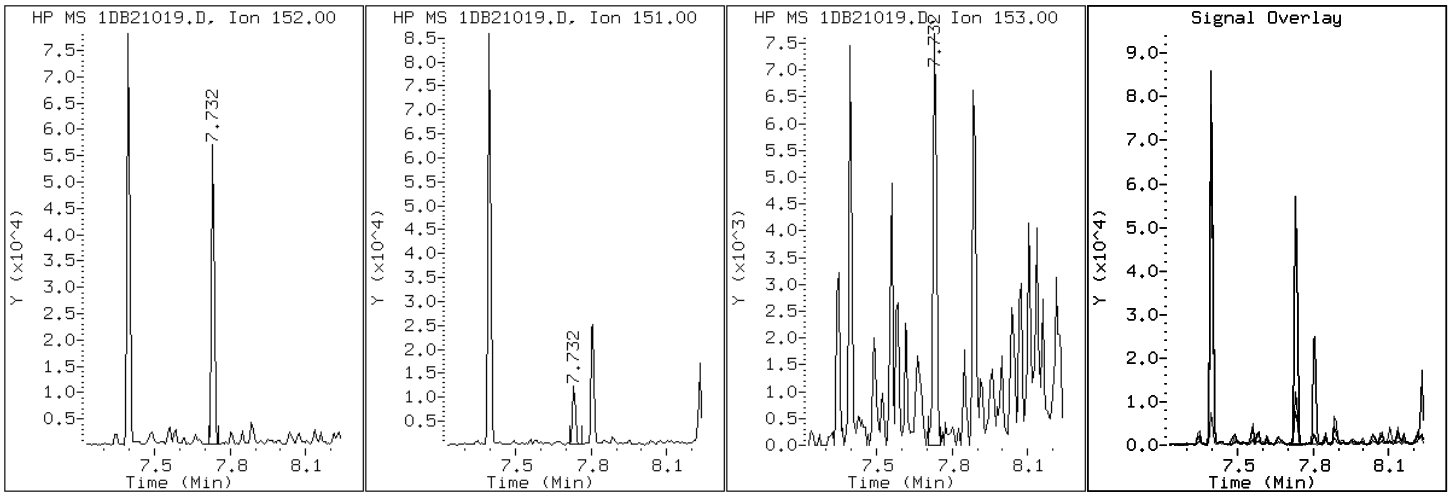
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

5 Acenaphthylene



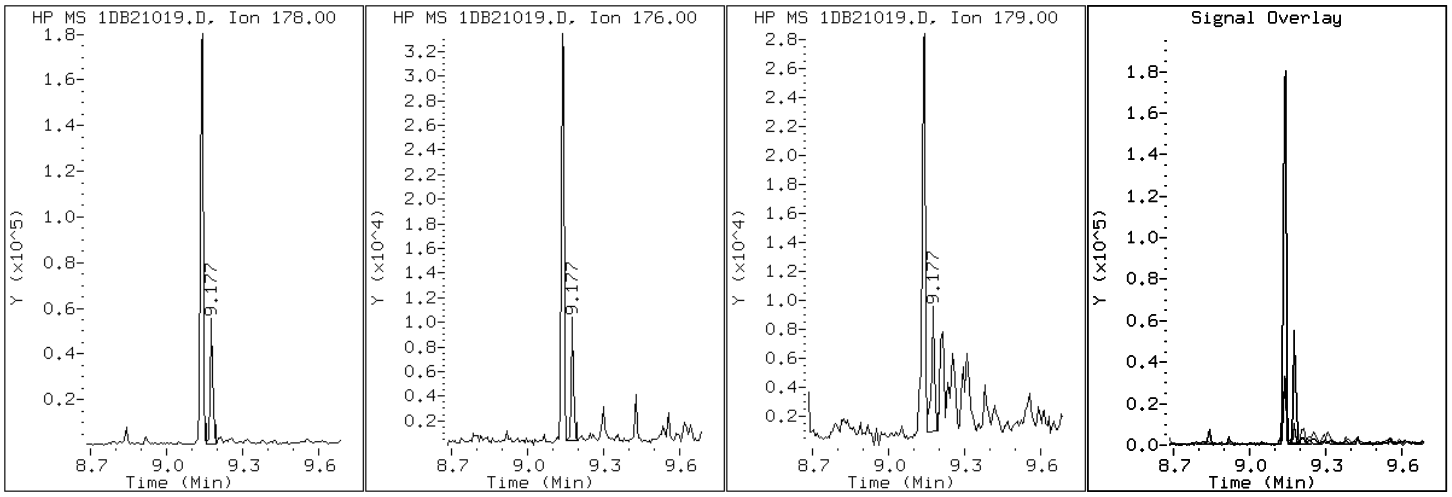
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

11 Anthracene



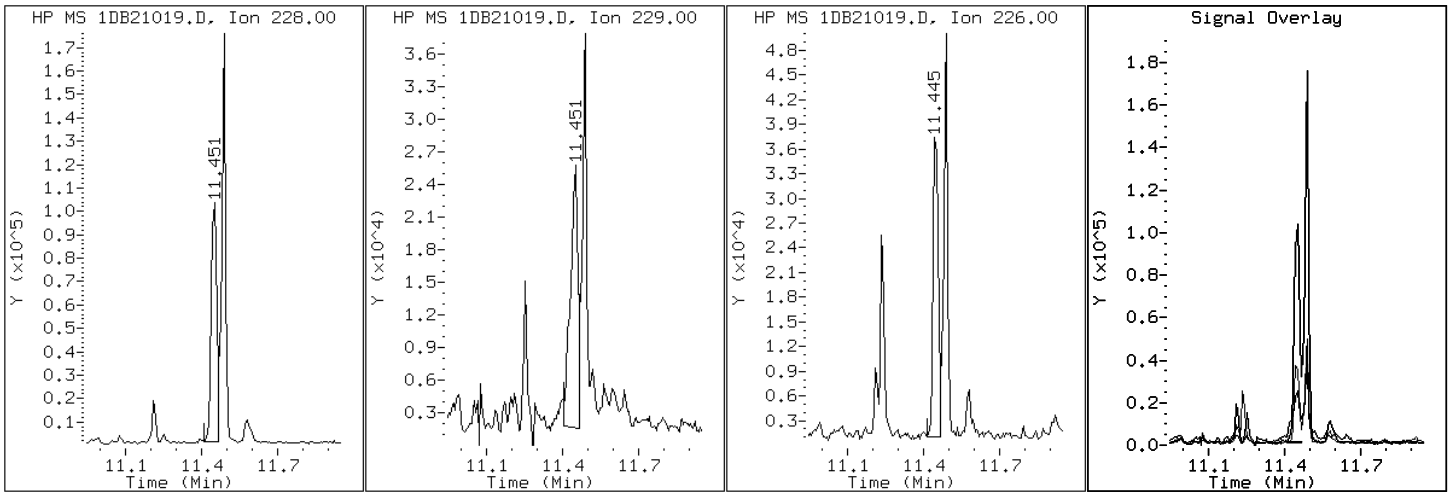
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

16 Benzo(a)anthracene



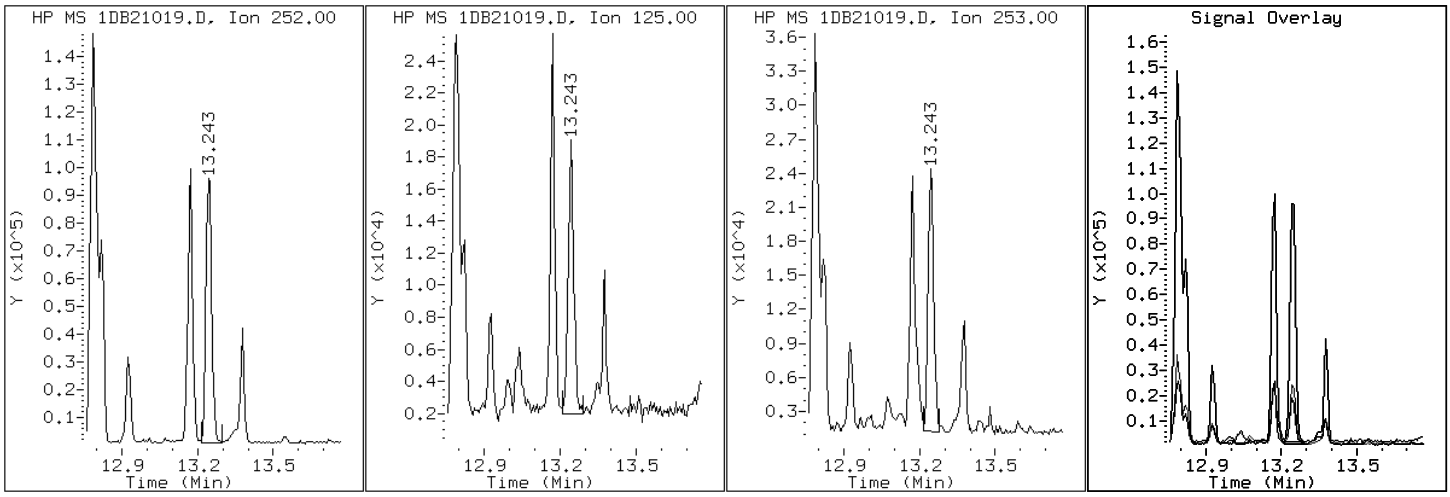
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

21 Benzo(a)pyrene



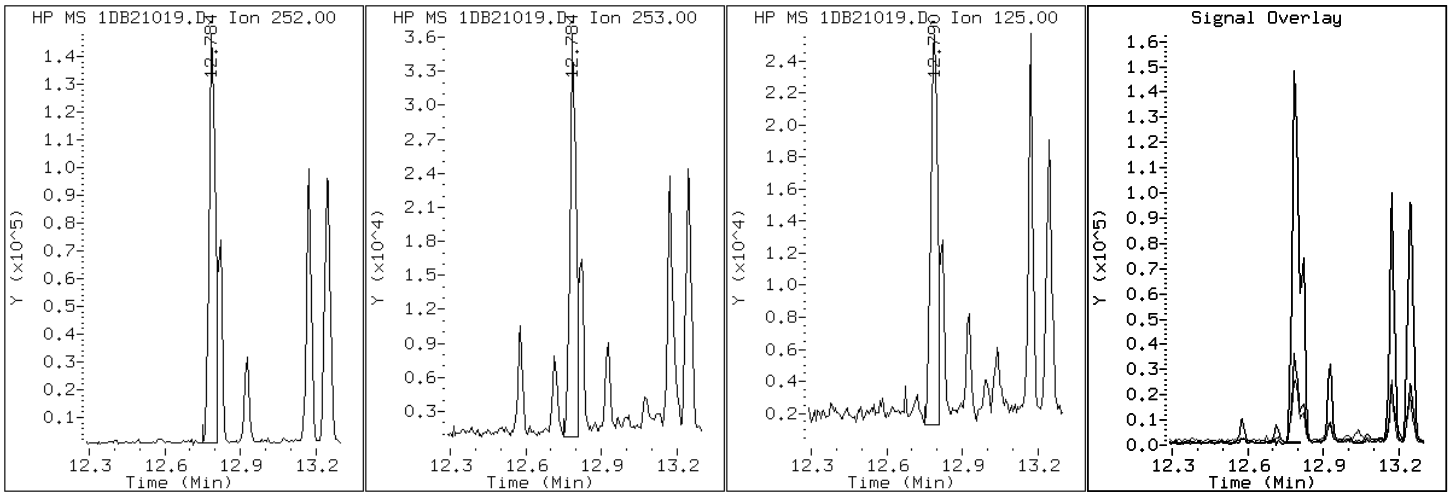
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

19 Benzo(b)fluoranthene



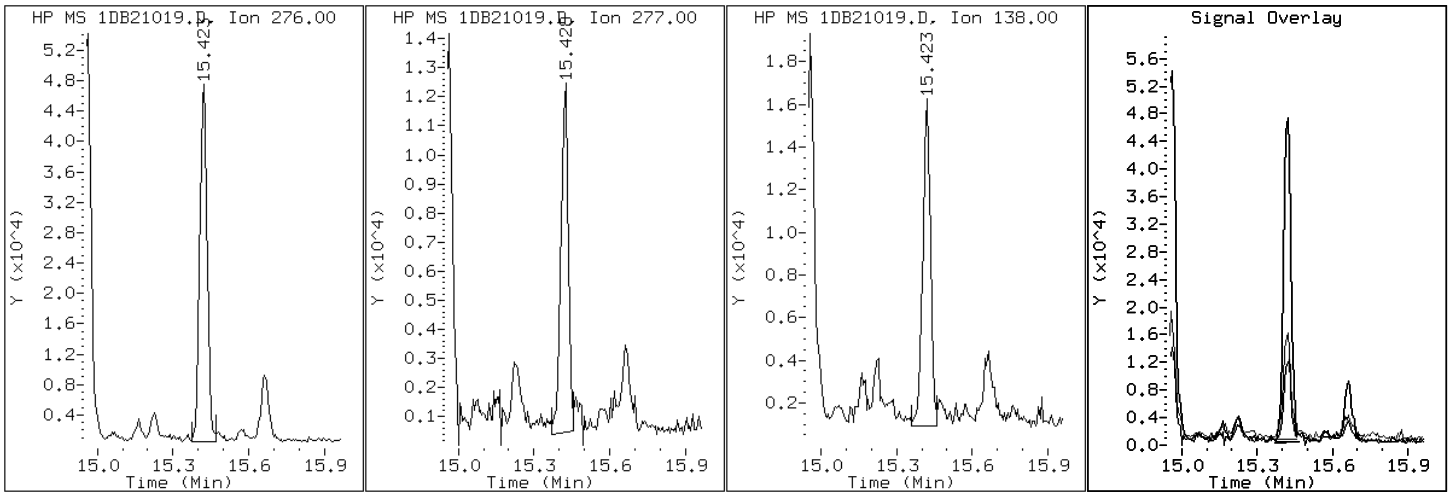
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

25 Benzo(g,h,i)perylene



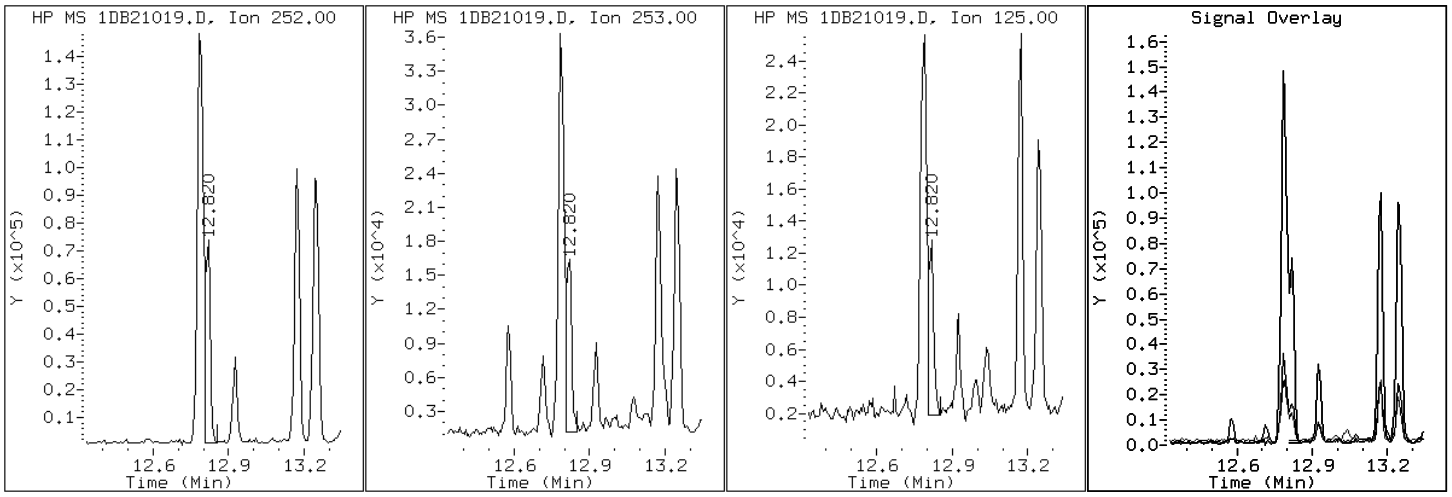
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

20 Benzo(k)fluoranthene



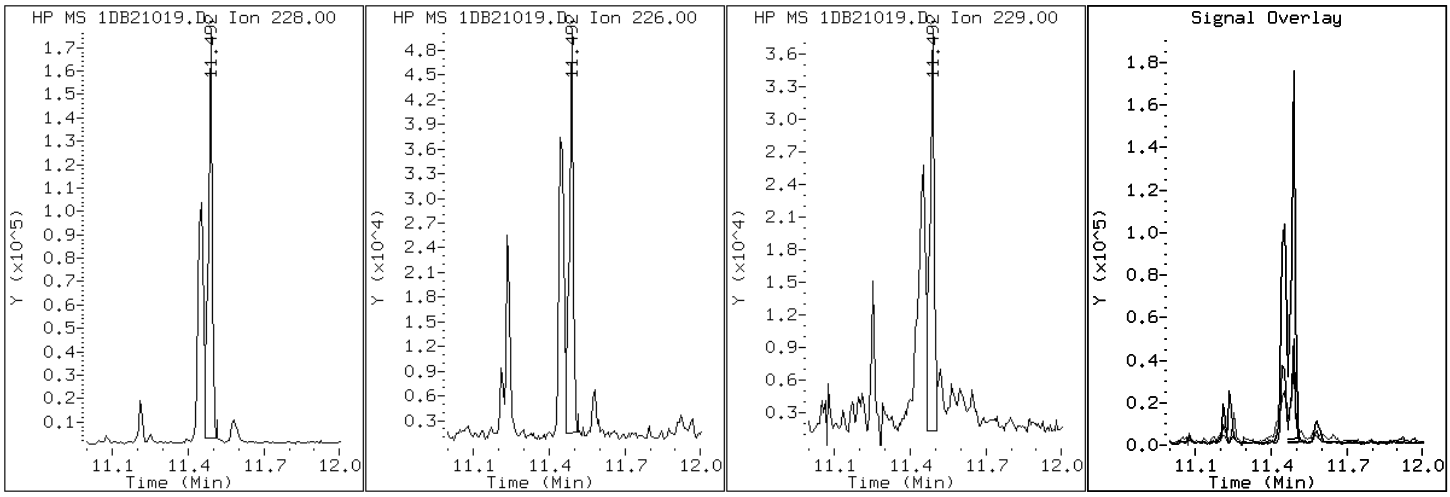
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

18 Chrysene



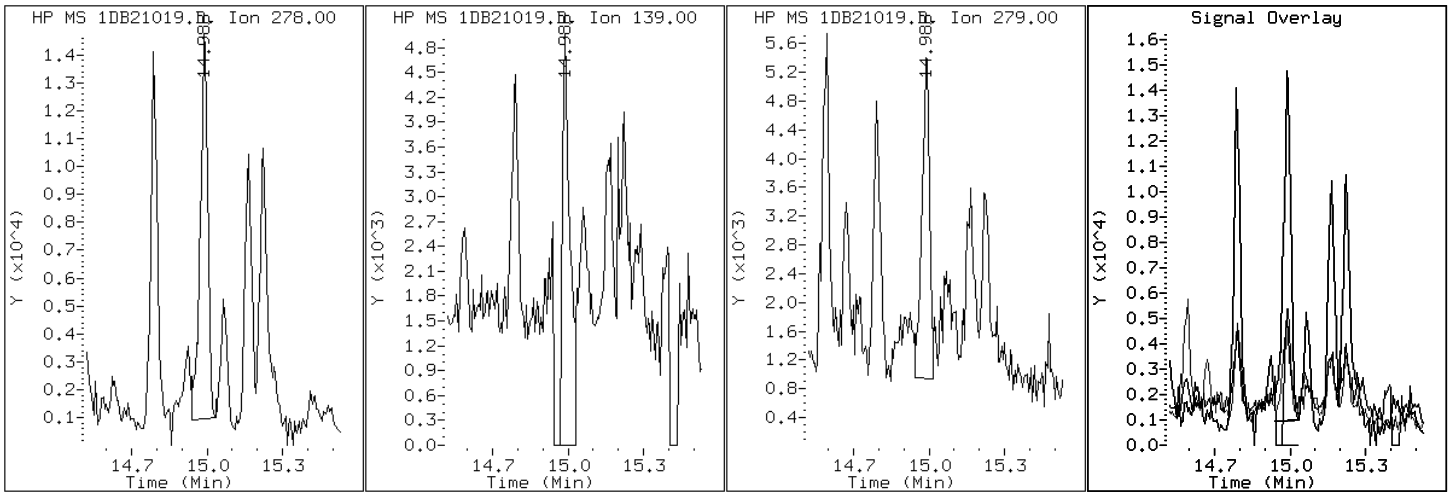
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

24 Dibenzo(a,h)anthracene



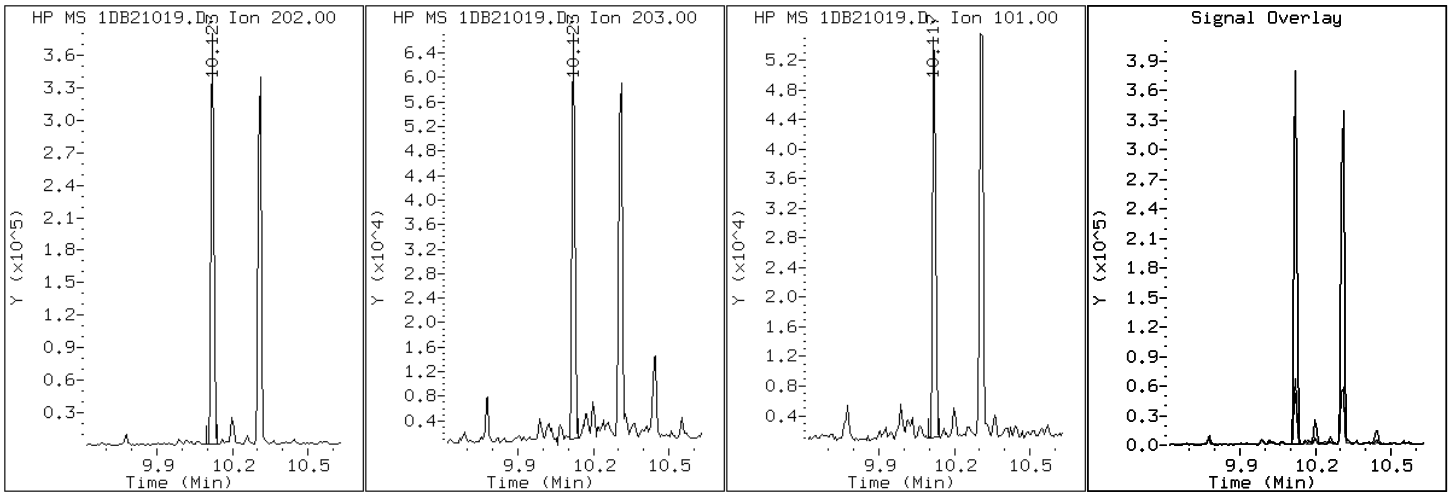
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

14 Fluoranthene



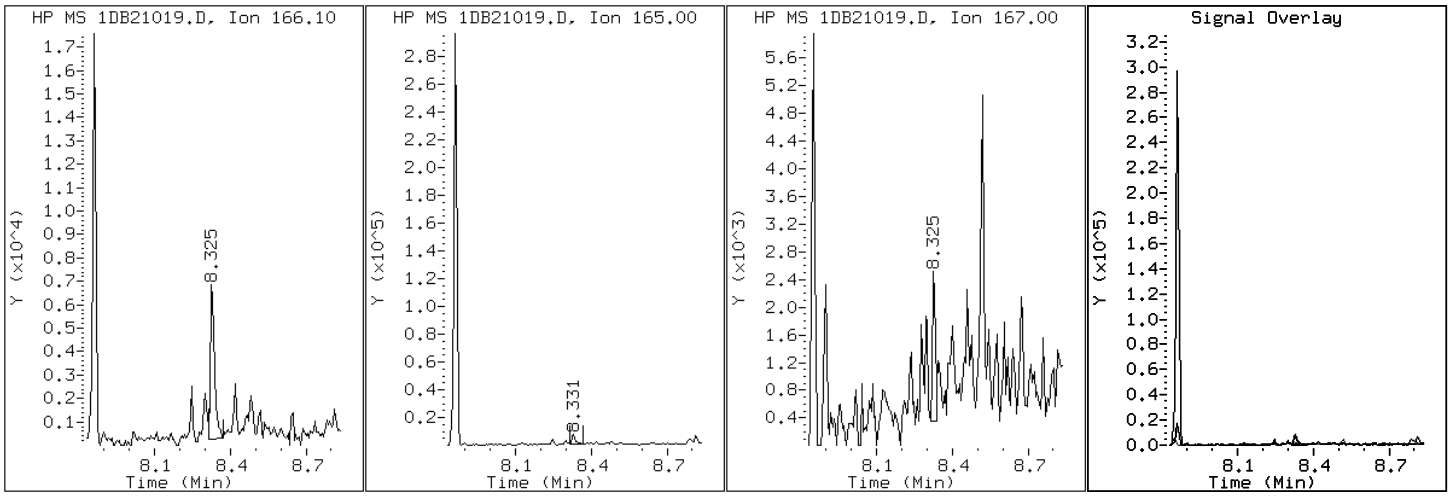
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

8 Fluorene



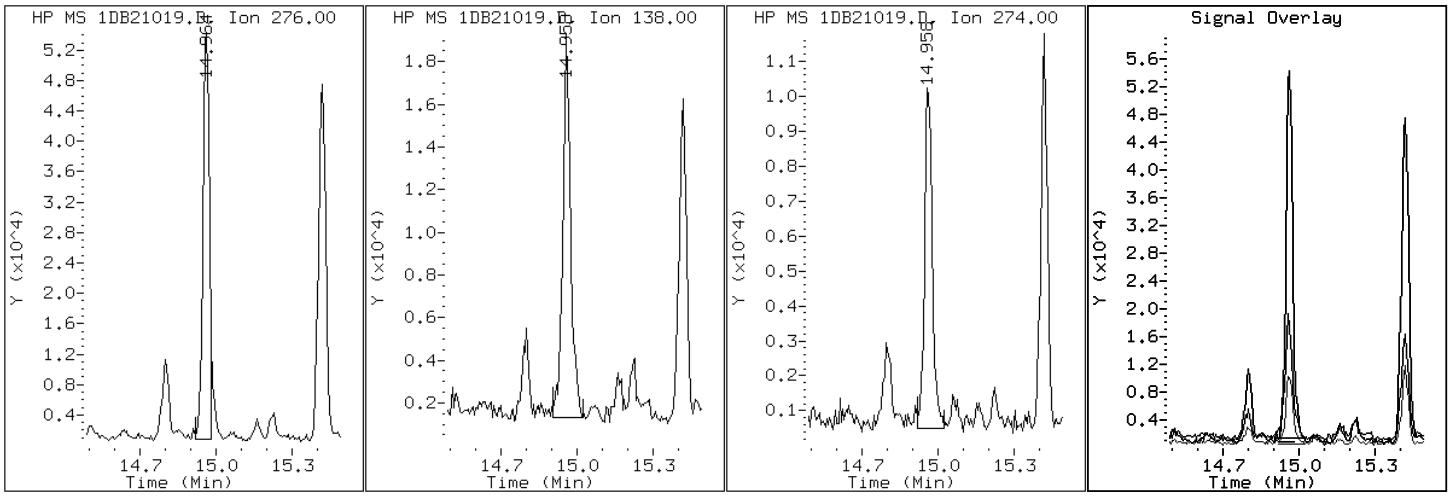
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

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



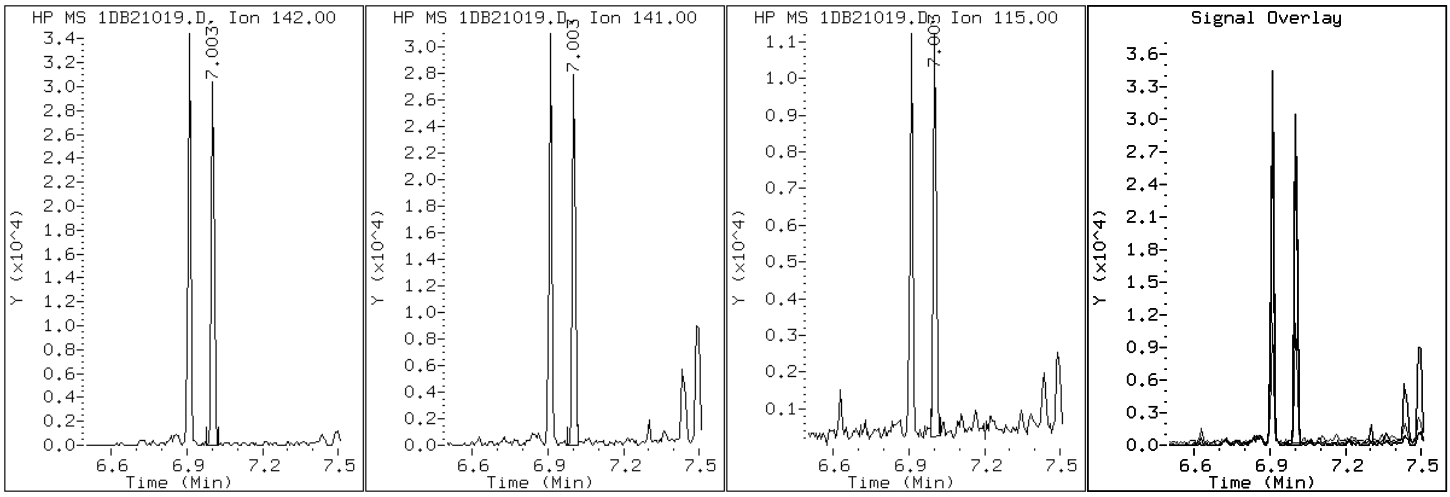
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

4 1-Methylnaphthalene



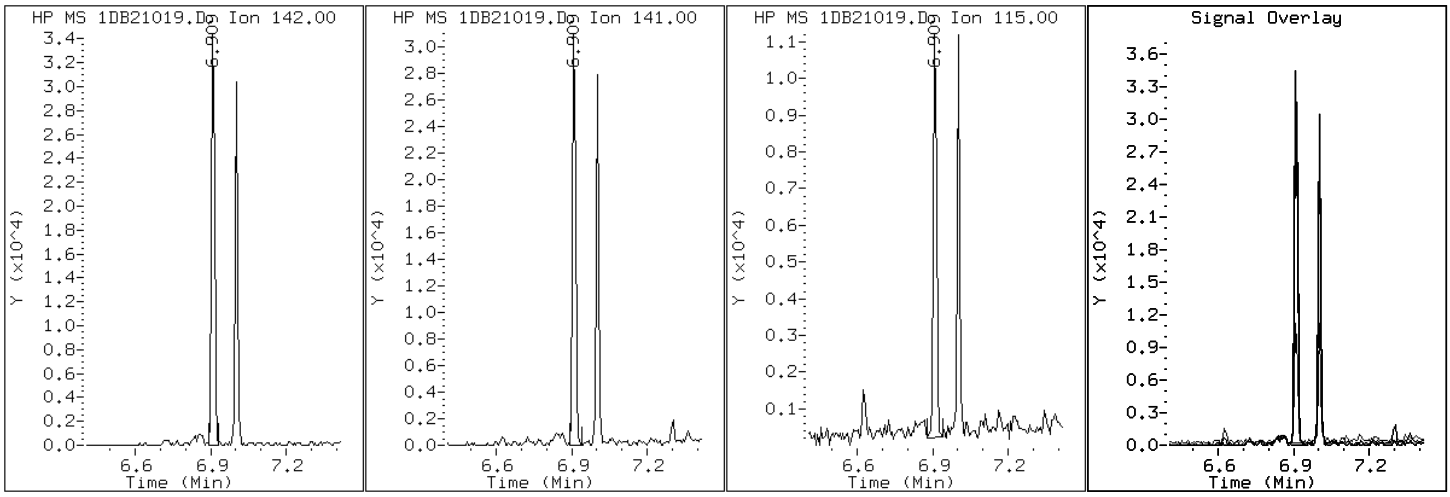
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

3 2-Methylnaphthalene



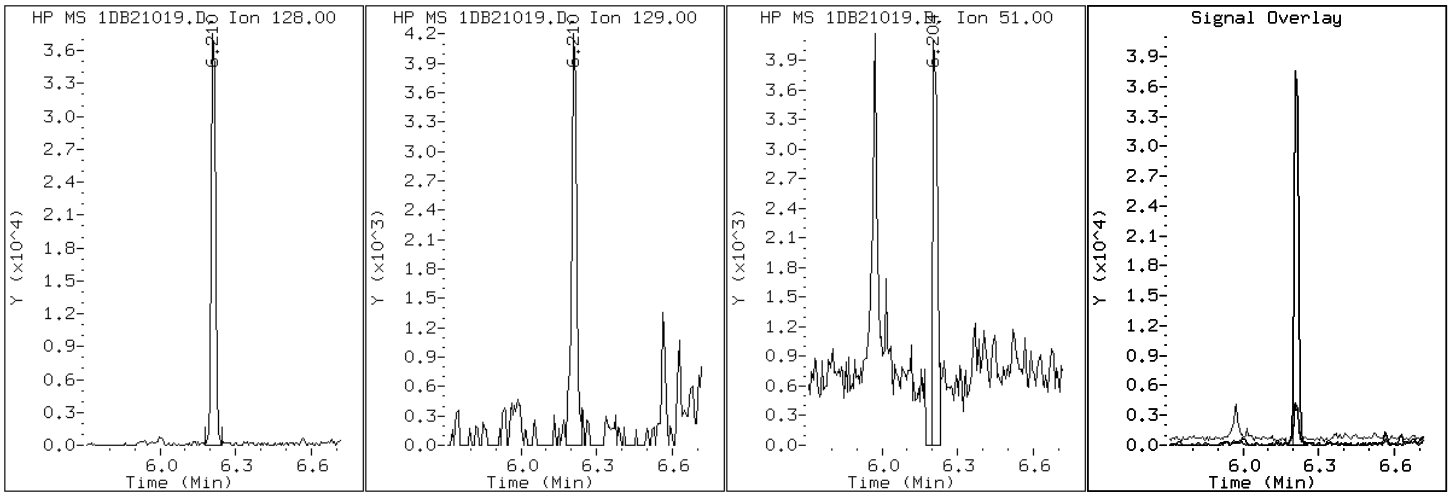
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

2 Naphthalene



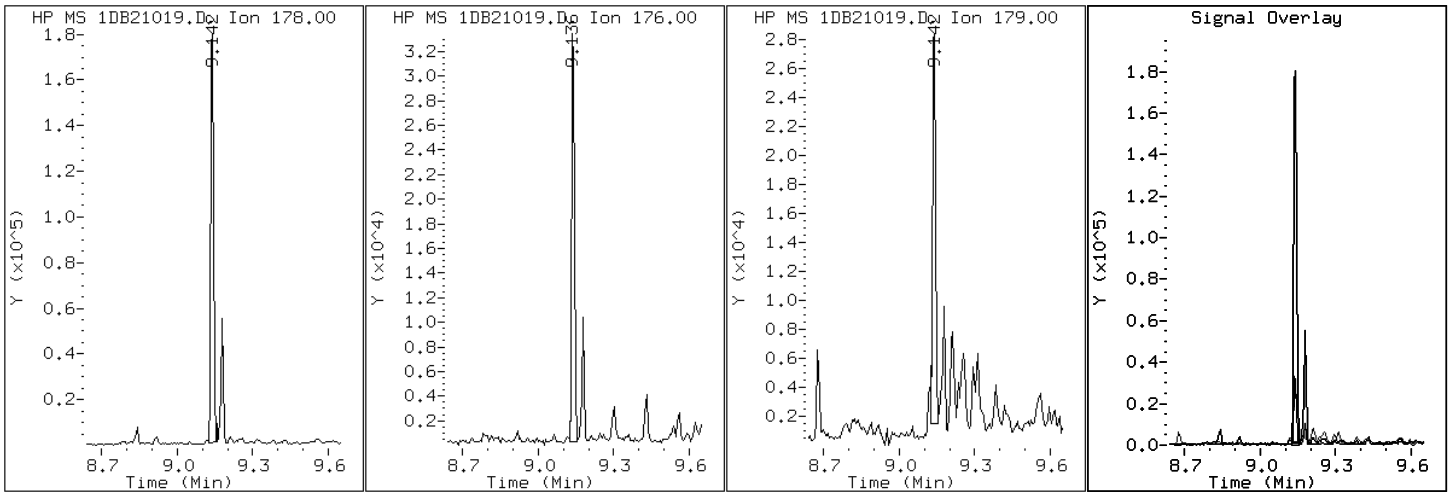
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

10 Phenanthrene



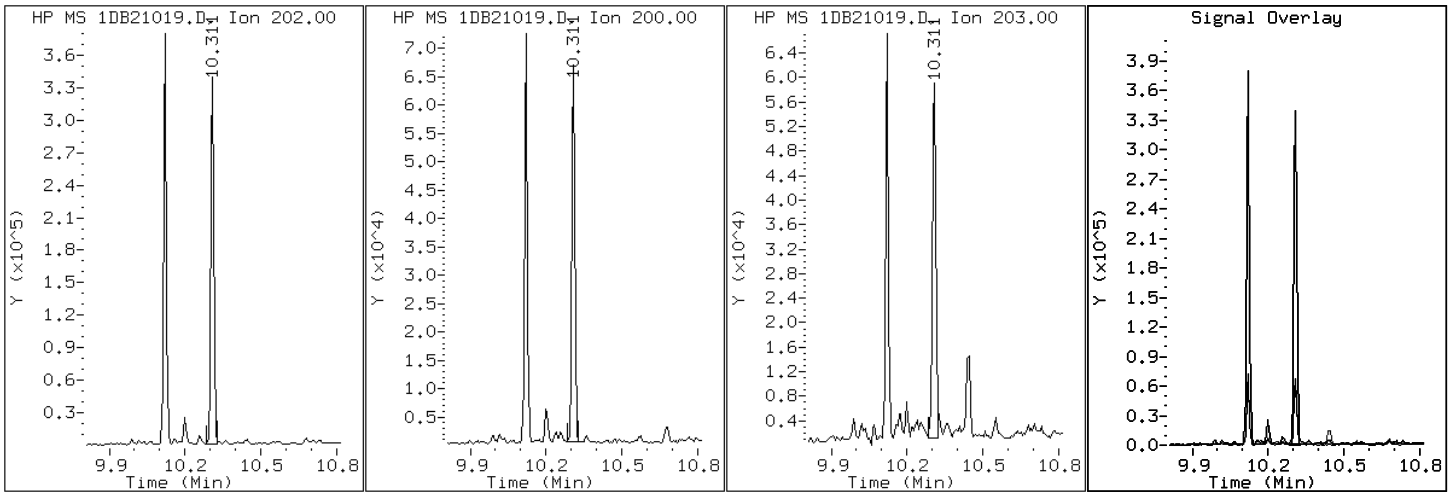
Data File: 1DB21019.D

Date: 21-FEB-2013 17:58

Client ID: CV0971LL-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-22-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB21019.D
Inj. Date and Time: 21-FEB-2013 17:58
Instrument ID: BSMSD.i
Client ID: CV0971LL-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

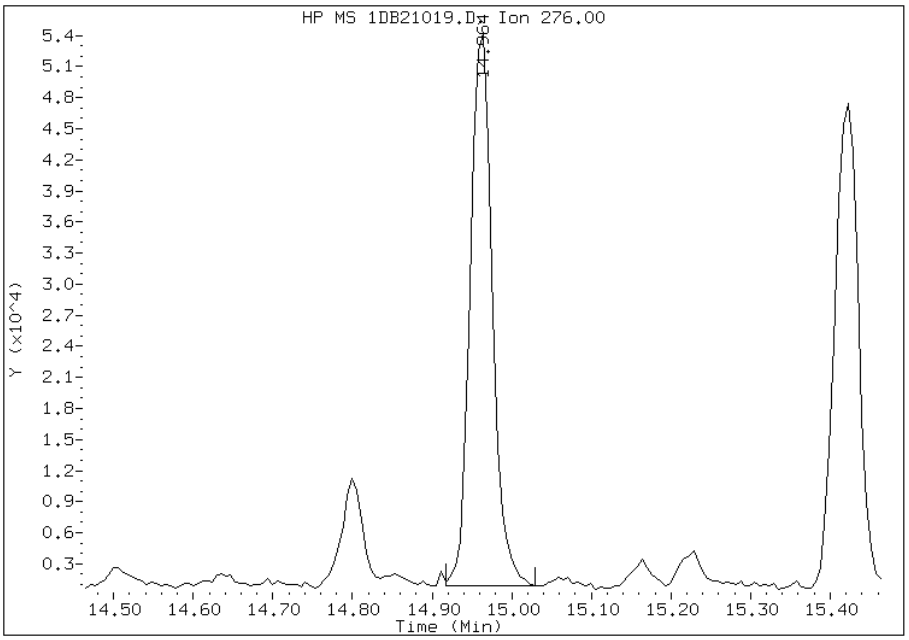
Processing Integration Results

RT: 14.96

Response: 102908

Amount: 1

Conc: 509



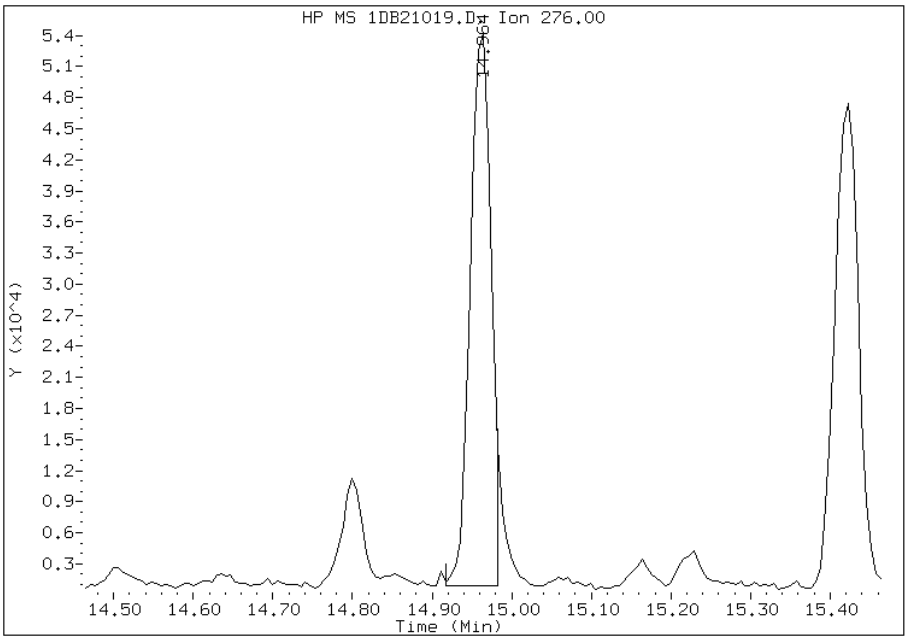
Manual Integration Results

RT: 14.96

Response: 96608

Amount: 1

Conc: 477



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971MM-CS | Lab Sample ID: 680-87496-23

Matrix: Solid | Lab File ID: 1DB21020.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:04

Extract. Method: 3546 | Date Extracted: 02/20/2013 11:26

Sample wt/vol: 15.32(g) | Date Analyzed: 02/21/2013 18:21

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

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

% Moisture: 36.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	42	J	61	7.6
120-12-7	Anthracene	50		13	6.4
56-55-3	Benzo[a]anthracene	170		12	6.0
50-32-8	Benzo[a]pyrene	160		16	8.0
205-99-2	Benzo[b]fluoranthene	270		19	9.3
191-24-2	Benzo[g,h,i]perylene	91		31	6.7
207-08-9	Benzo[k]fluoranthene	84		12	5.5
218-01-9	Chrysene	210		14	6.9
53-70-3	Dibenz(a,h)anthracene	31		31	6.3
206-44-0	Fluoranthene	330		31	6.1
86-73-7	Fluorene	14	J	31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	90		31	11
90-12-0	1-Methylnaphthalene	120		61	6.7
91-57-6	2-Methylnaphthalene	140		61	11
91-20-3	Naphthalene	140		61	6.7
85-01-8	Phenanthrene	220		12	6.0
129-00-0	Pyrene	280		31	5.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21020.D
Lab Smp Id: 680-87496-A-23-A Client Smp ID: CV0971MM-CS
Inj Date : 21-FEB-2013 18:21
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-23-A
Misc Info : 680-87496-A-23-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 20
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	15.320	Weight Extracted
M	36.000	% 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	6.190	6.195	(1.000)	3326052	40.0000	
* 6 Acenaphthene-d10	164	7.864	7.863	(1.000)	2009623	40.0000	
* 9 Phenanthrene-d10	188	9.122	9.127	(1.000)	3303692	40.0000	
$ 13 o-Terphenyl	230	9.433	9.432	(1.034)	286472	5.84014	600
* 17 Chrysene-d12	240	11.472	11.477	(1.000)	3243487	40.0000	
* 22 Perylene-d12	264	13.358	13.363	(1.000)	3217780	40.0000	
2 Naphthalene	128	6.207	6.212	(1.003)	122806	1.39614	140
3 2-Methylnaphthalene	142	6.912	6.912	(1.117)	74602	1.33536	140
4 1-Methylnaphthalene	142	7.001	7.006	(1.131)	61794	1.17593	120
5 Acenaphthylene	152	7.735	7.734	(0.984)	35310	0.40696	42
8 Fluorene	166	8.328	8.333	(1.059)	8727	0.13880	14
10 Phenanthrene	178	9.139	9.144	(1.002)	206068	2.18330	220
11 Anthracene	178	9.180	9.185	(1.006)	45622	0.49335	50
12 Carbazole	167	9.315	9.320	(1.021)	19994	0.24412	25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.120	10.125	(1.109)	304995	3.22598	330
15 Pyrene	202	10.308	10.313	(0.899)	274288	2.70846	280
16 Benzo(a)anthracene	228	11.454	11.447	(0.998)	157062	1.65547	170
18 Chrysene	228	11.489	11.500	(1.002)	190181	2.08031	210
19 Benzo(b)fluoranthene	252	12.788	12.793	(0.957)	220146	2.69512	270
20 Benzo(k)fluoranthene	252	12.817	12.840	(0.960)	71142	0.82454	84(QH)
21 Benzo(a)pyrene	252	13.246	13.263	(0.992)	123339	1.53149	160
23 Indeno(1,2,3-cd)pyrene	276	14.962	14.990	(1.120)	75794	0.88173	90(M)
24 Dibenzo(a,h)anthracene	278	14.997	15.026	(1.123)	23730	0.30084	31
25 Benzo(g,h,i)perylene	276	15.426	15.460	(1.155)	73714	0.89627	91(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: 1DB21020.D

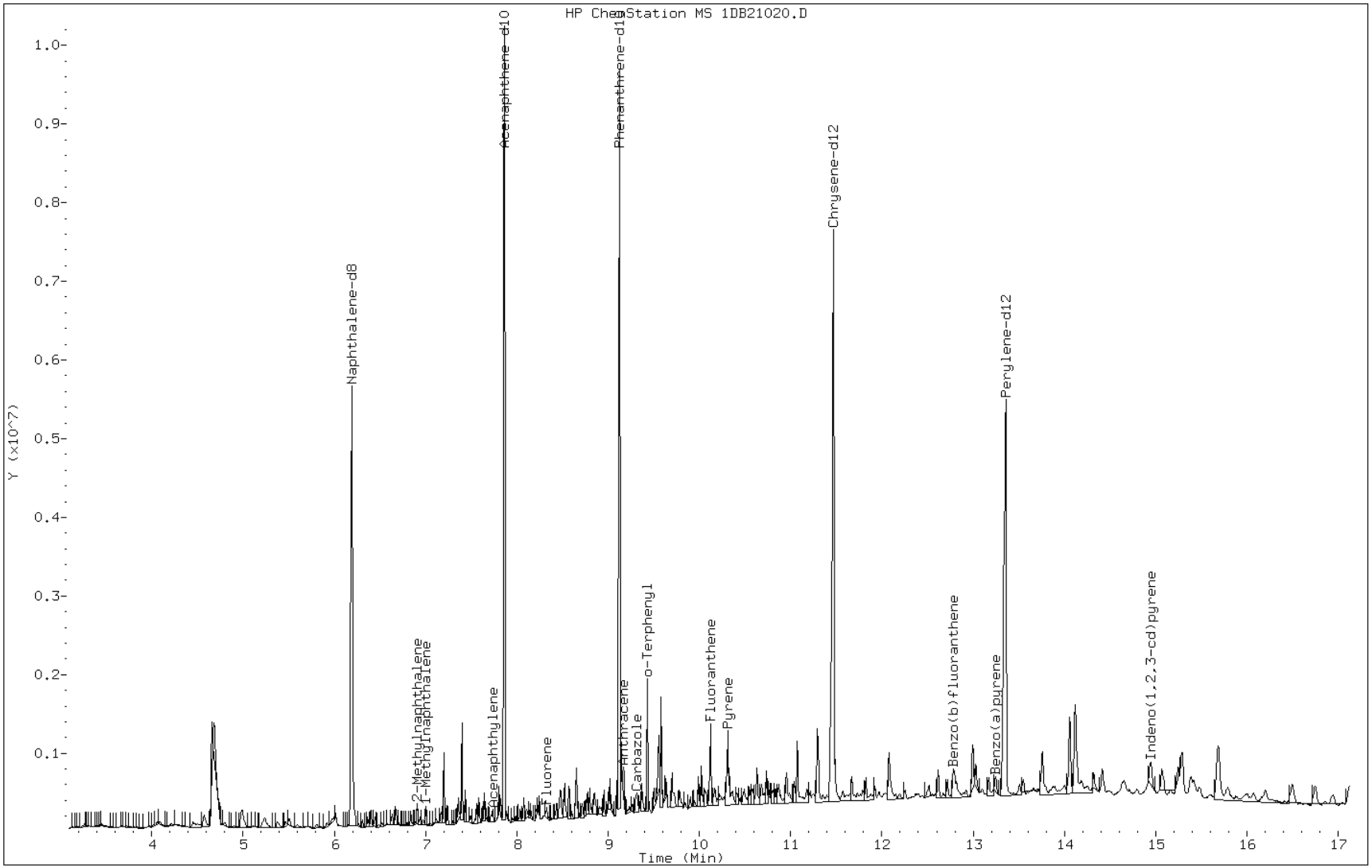
Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS

Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A

Operator: SCC



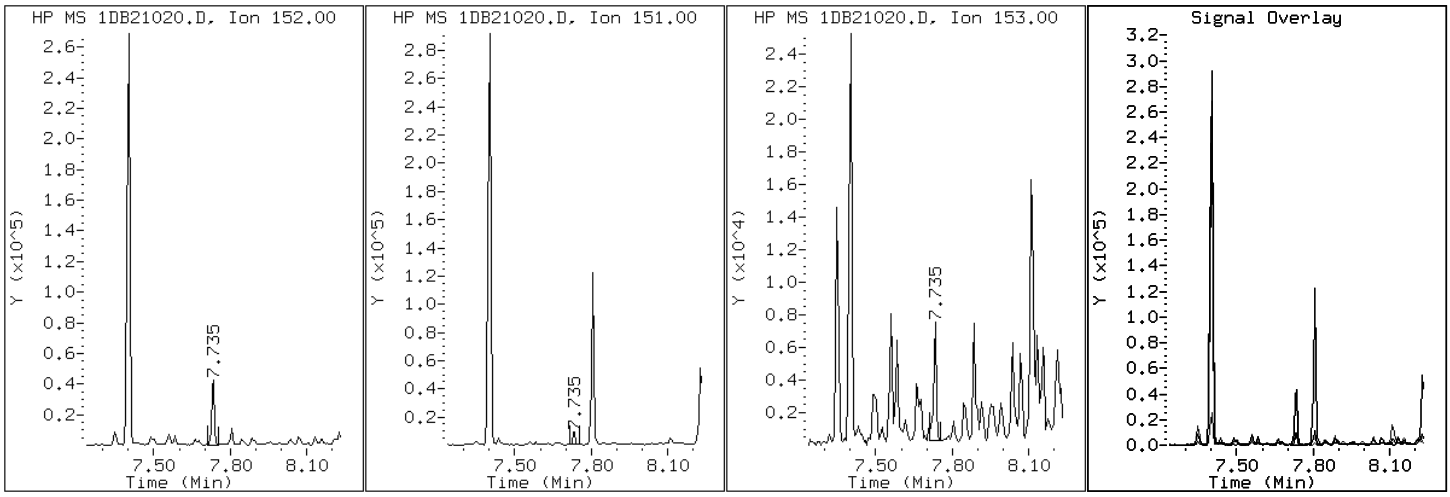
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

5 Acenaphthylene



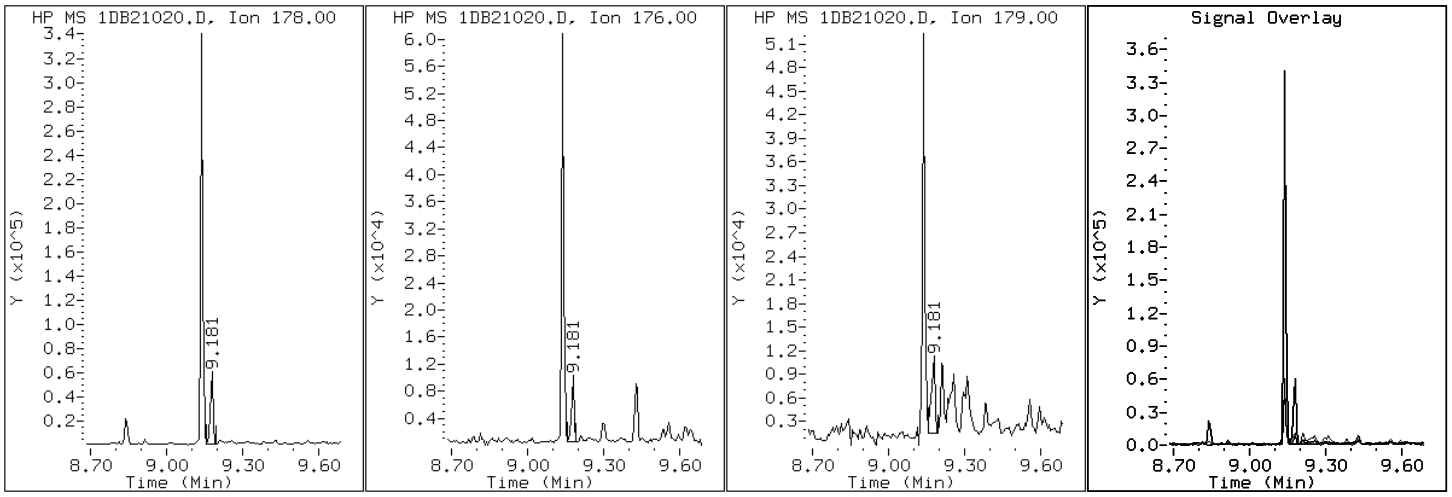
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

11 Anthracene



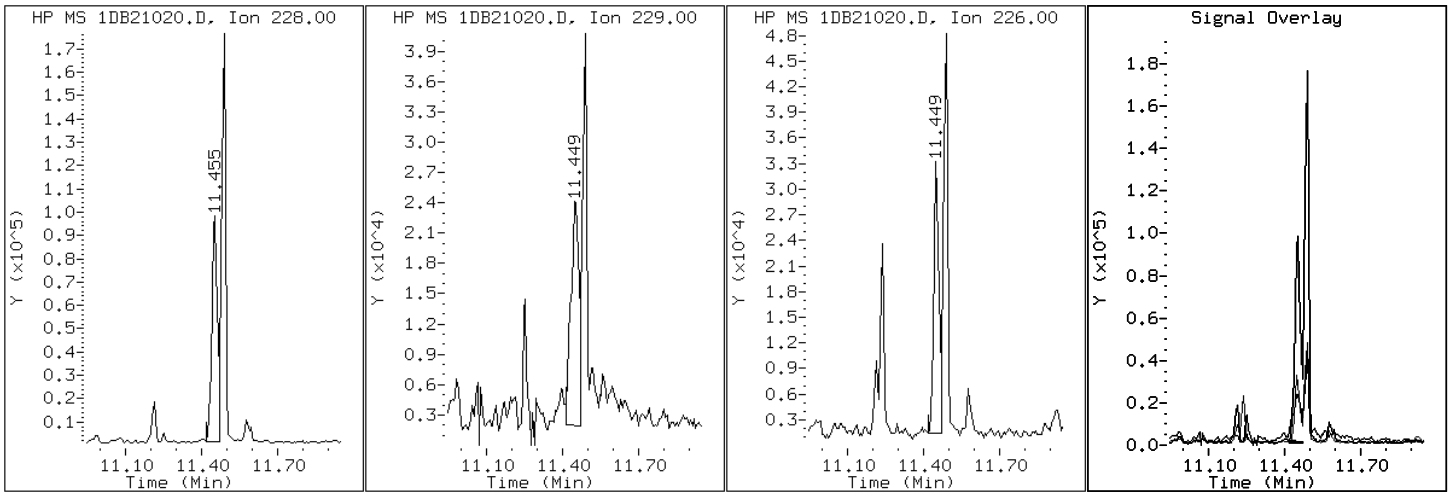
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

16 Benzo(a)anthracene



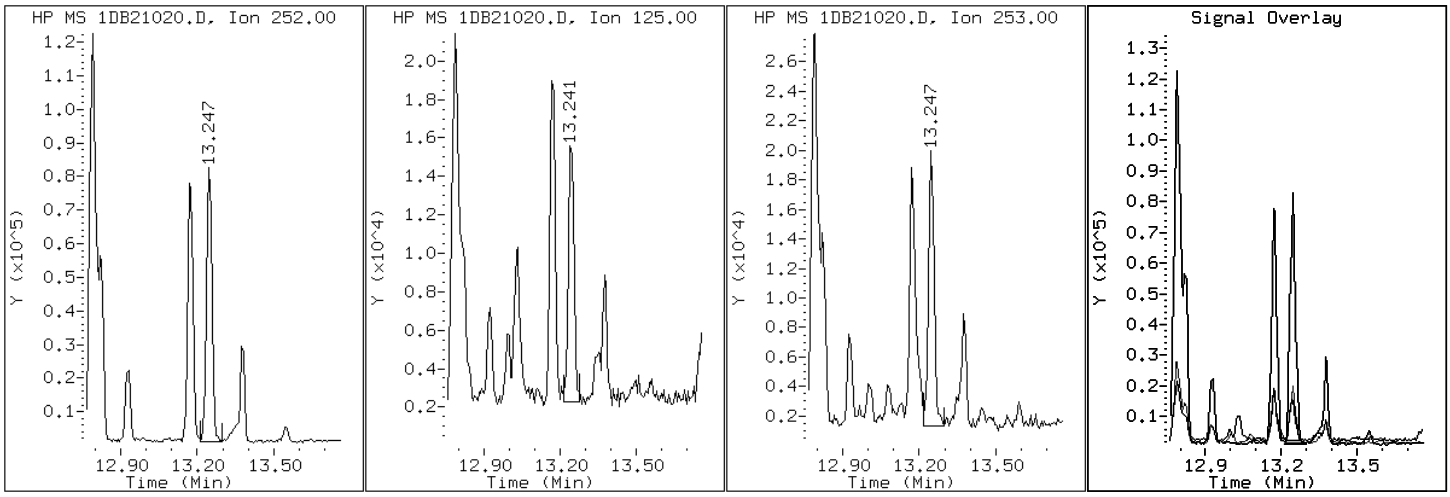
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

21 Benzo(a)pyrene



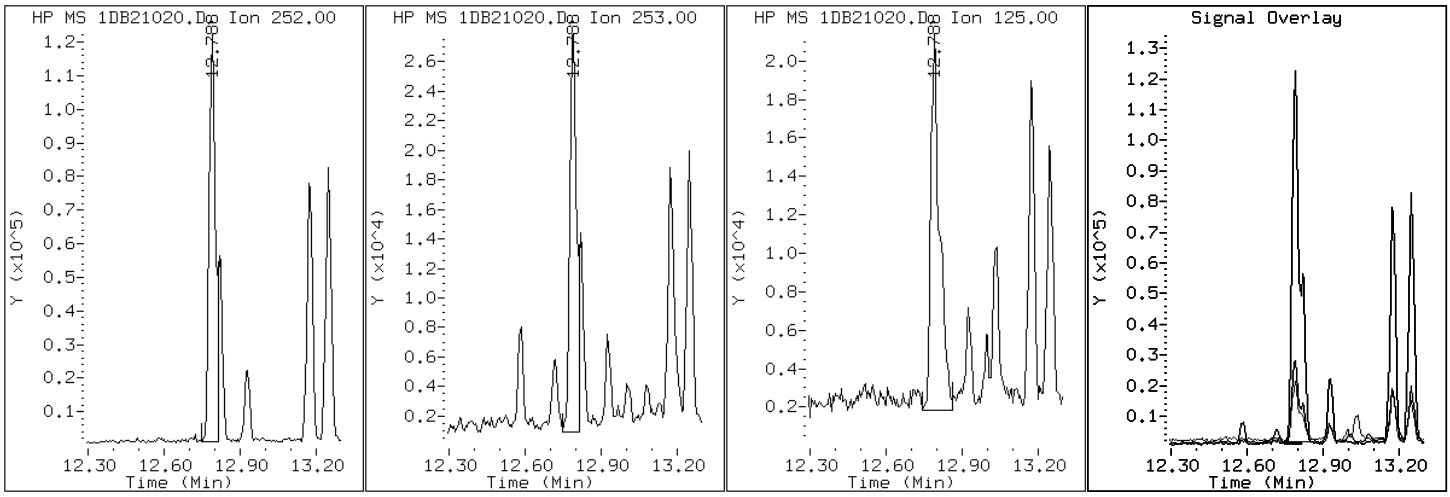
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

19 Benzo(b)fluoranthene



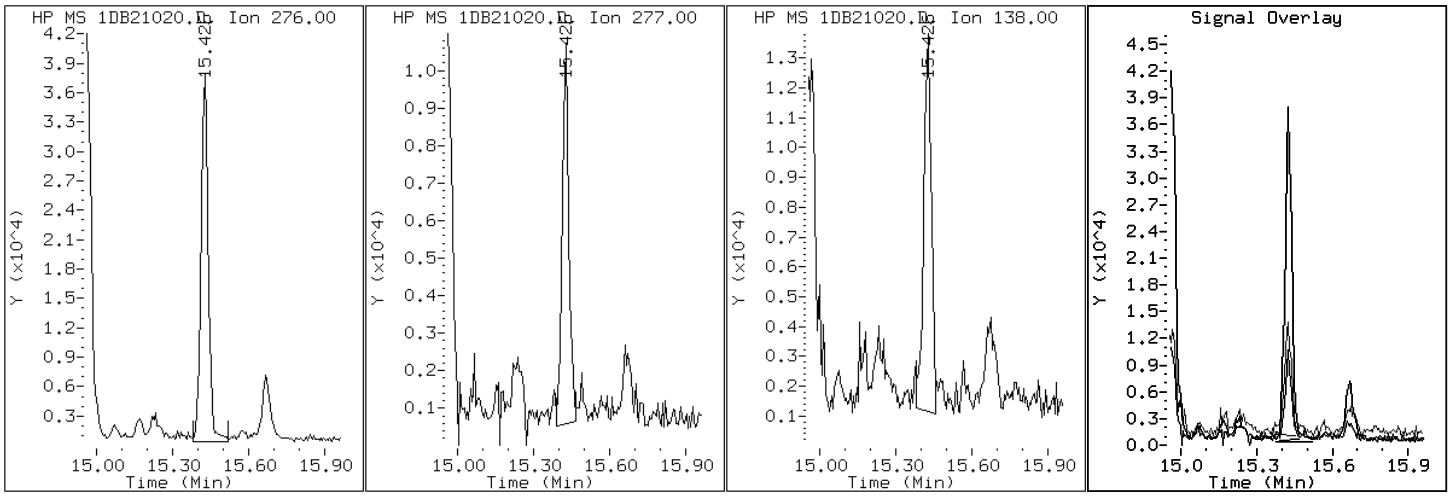
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

25 Benzo(g,h,i)perylene



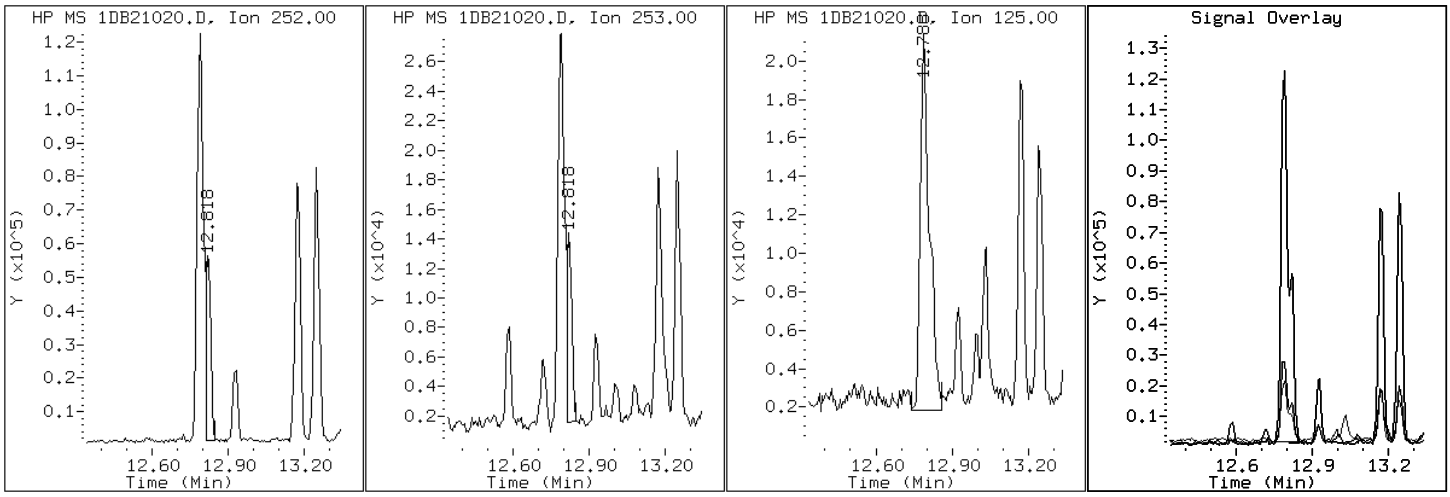
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

20 Benzo(k)fluoranthene



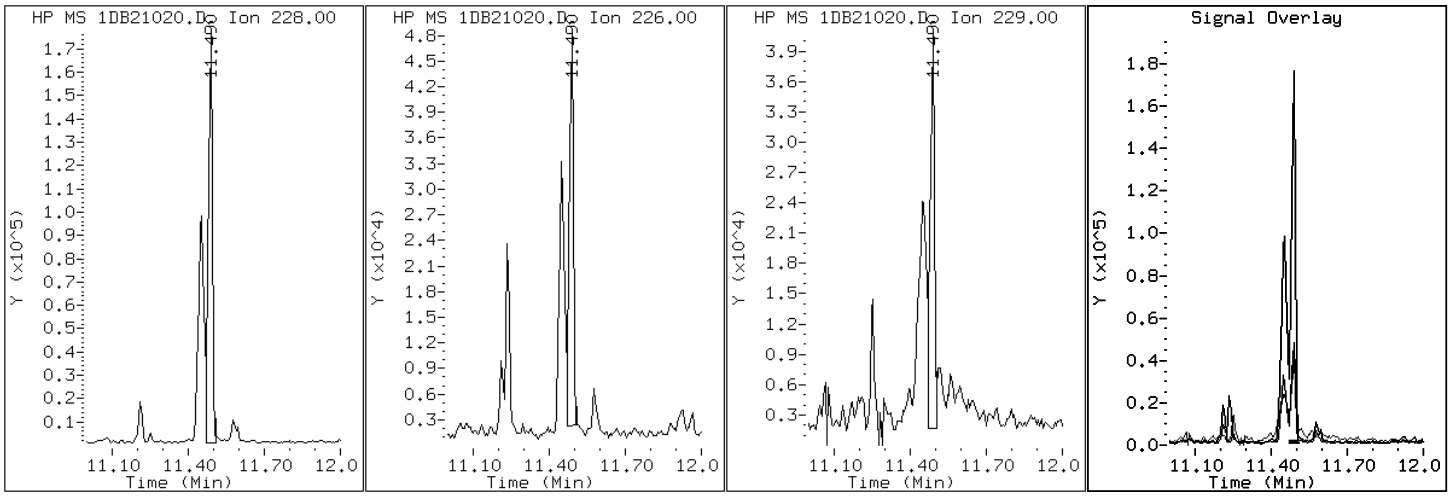
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

18 Chrysene



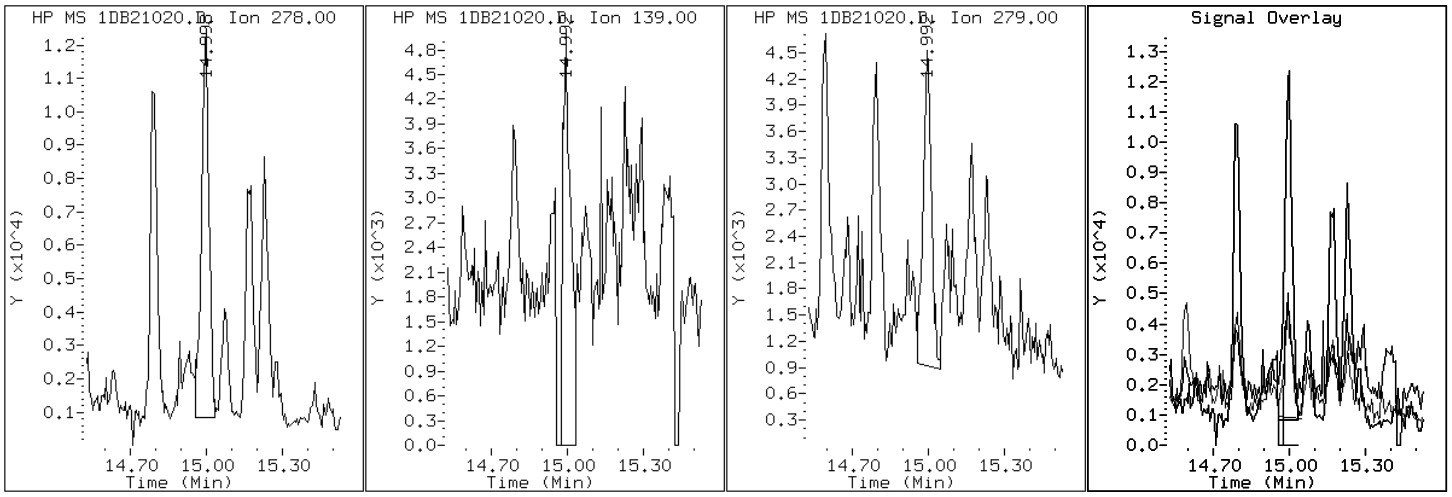
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

24 Dibenzo(a,h)anthracene



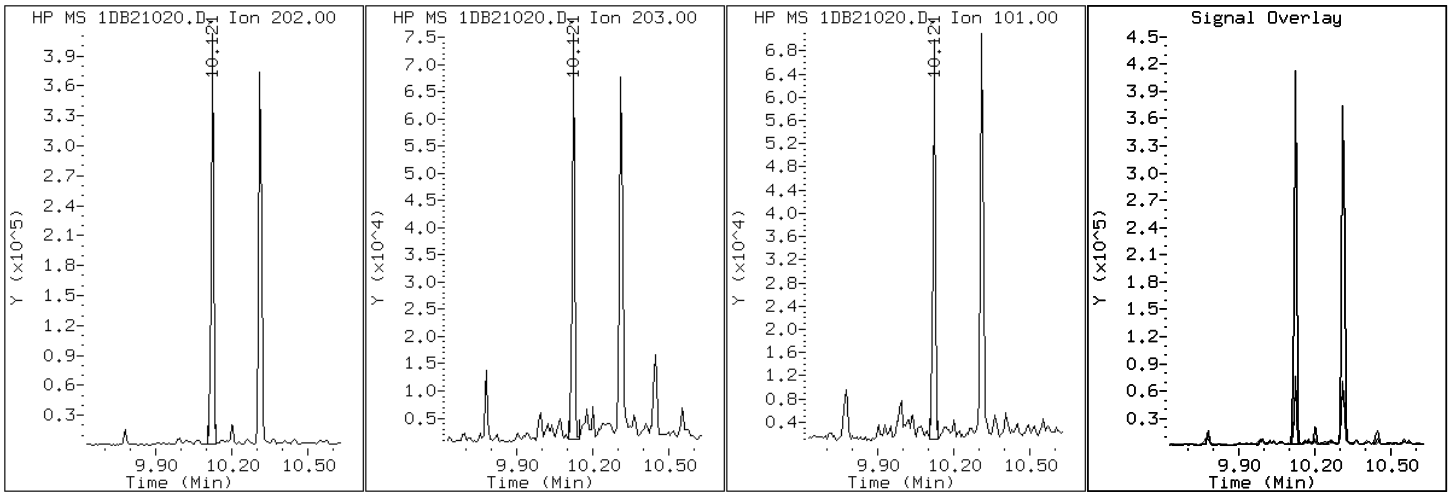
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

14 Fluoranthene



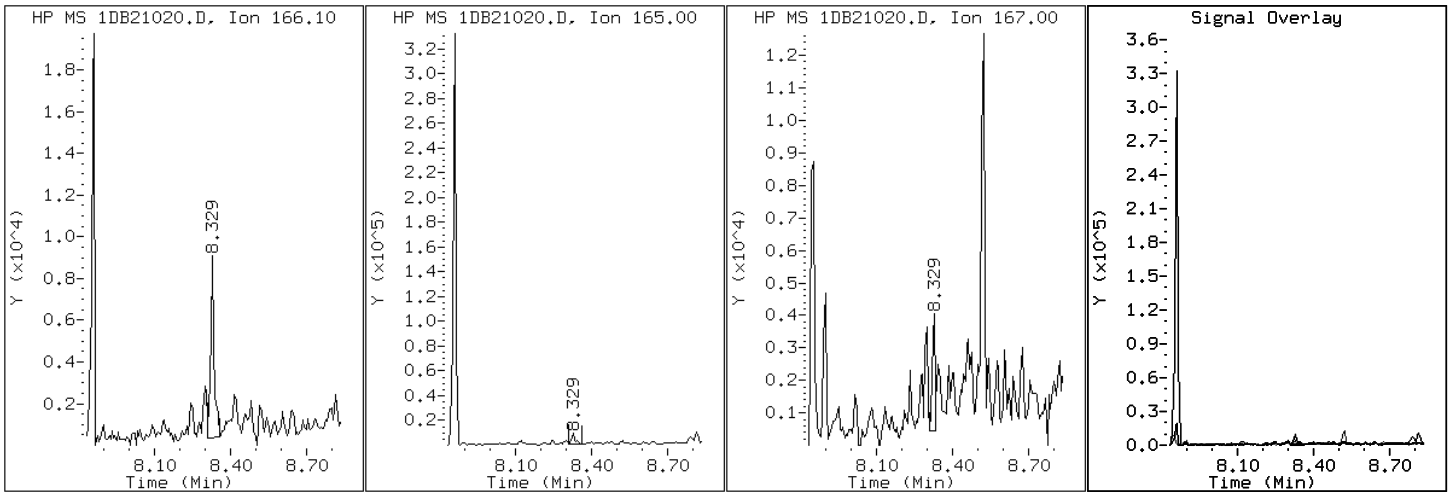
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

8 Fluorene



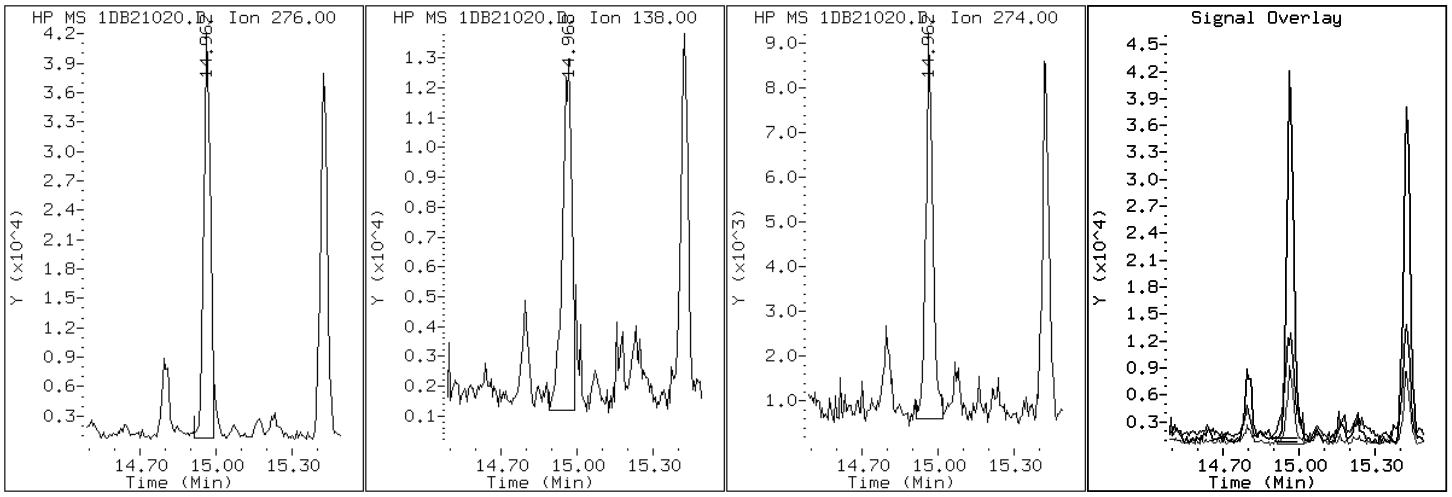
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

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



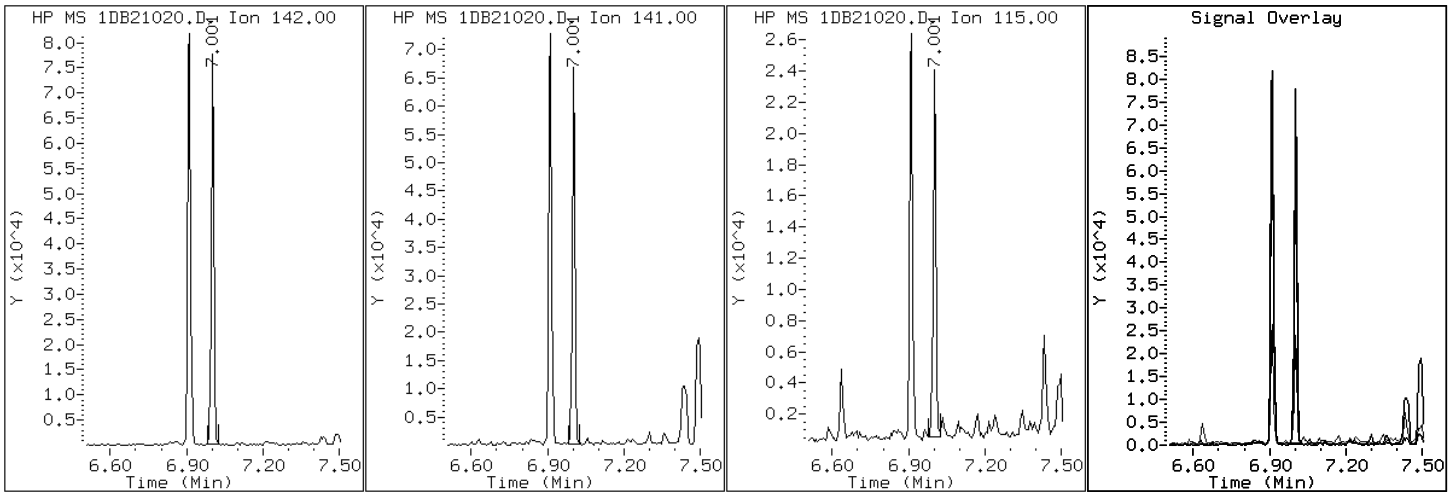
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

4 1-Methylnaphthalene



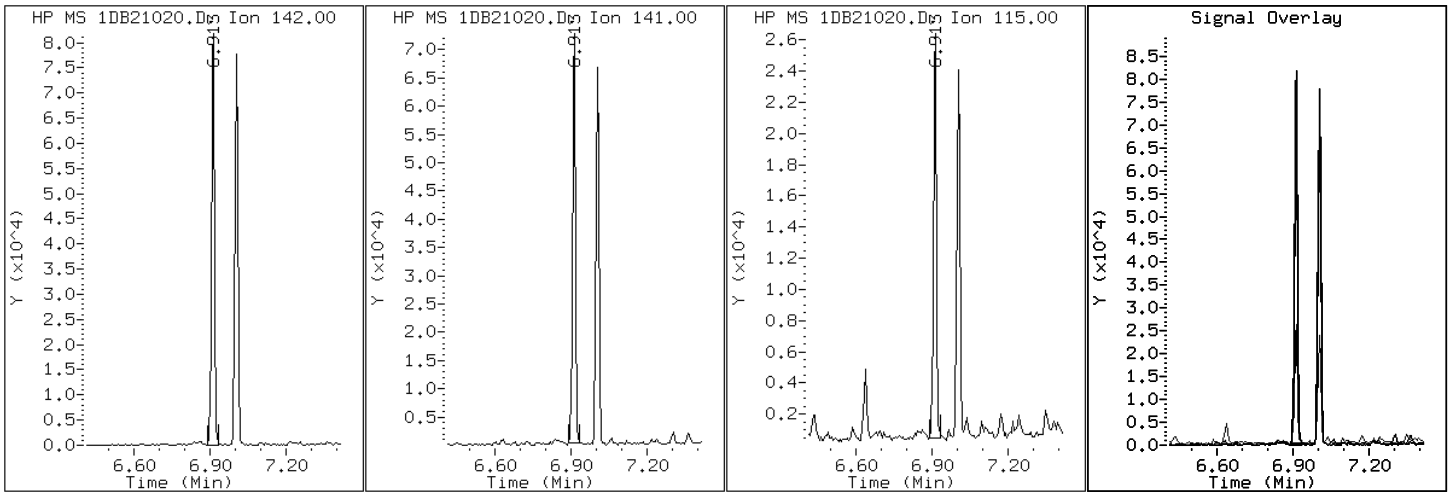
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

3 2-Methylnaphthalene



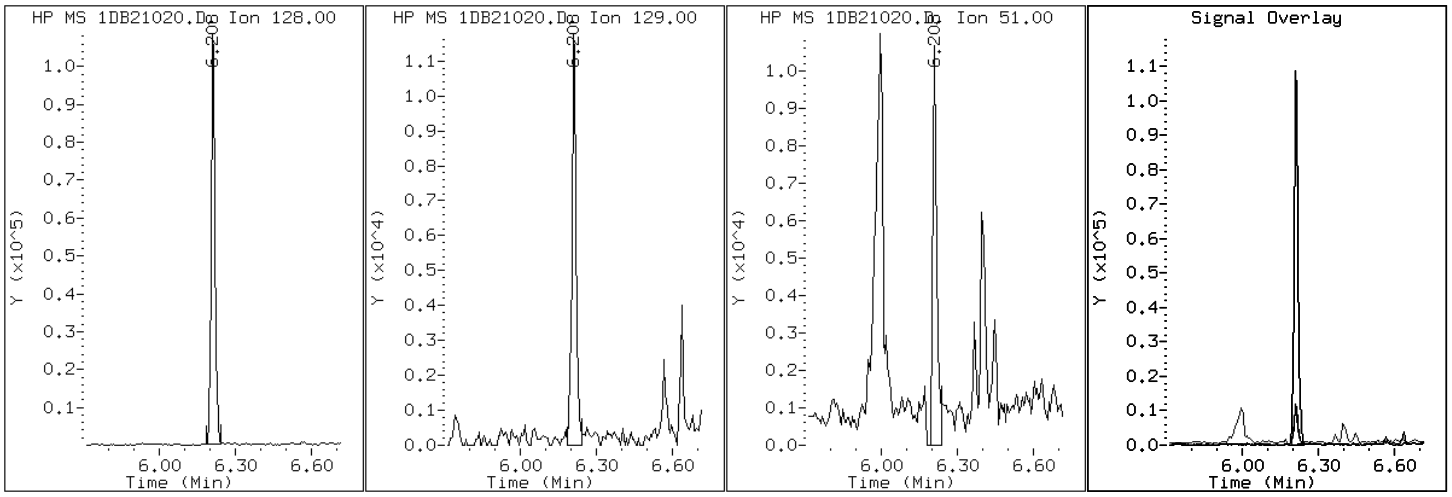
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

2 Naphthalene



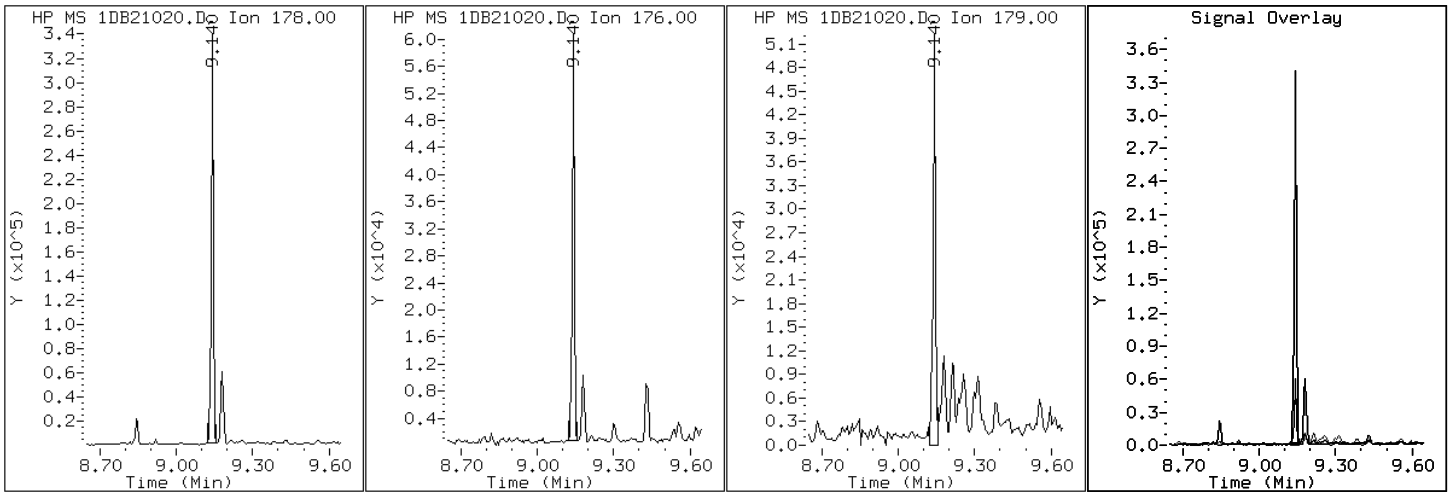
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

10 Phenanthrene



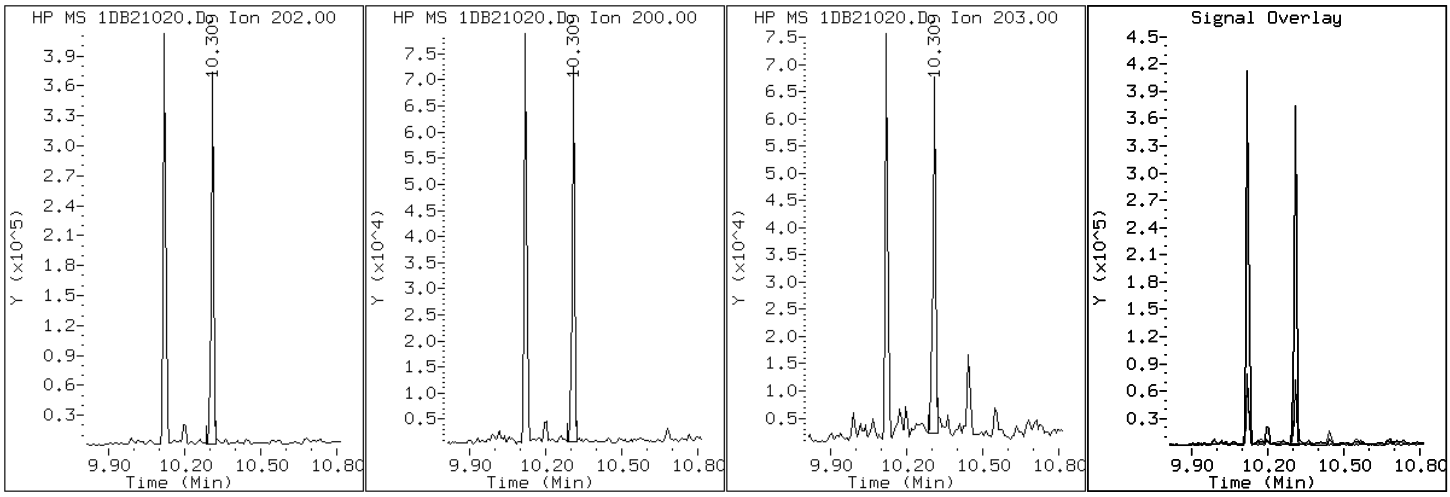
Data File: 1DB21020.D

Date: 21-FEB-2013 18:21

Client ID: CV0971MM-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-23-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB21020.D
Inj. Date and Time: 21-FEB-2013 18:21
Instrument ID: BSMSD.i
Client ID: CV0971MM-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/22/2013

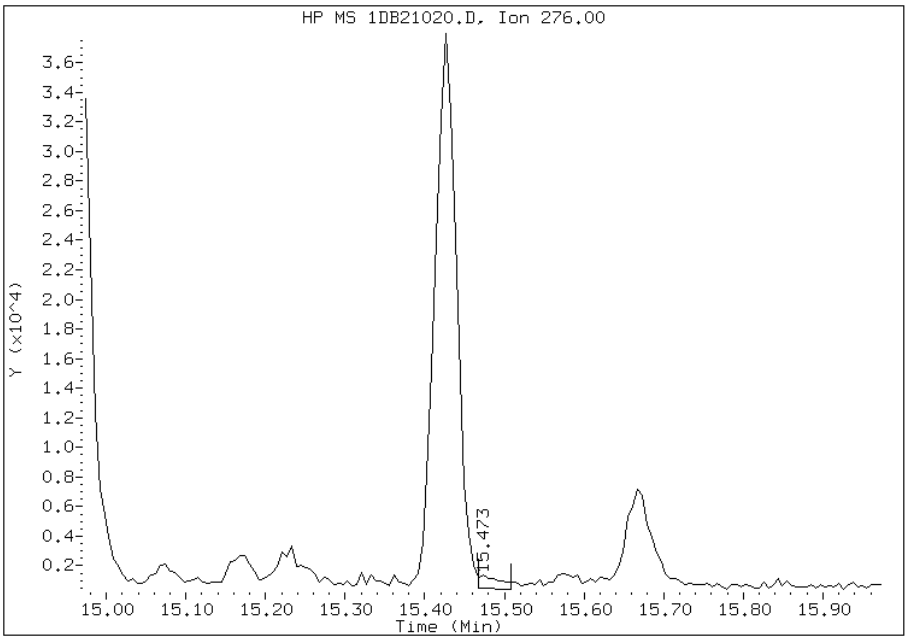
Processing Integration Results

RT: 15.47

Response: 1853

Amount: 0

Conc: 2



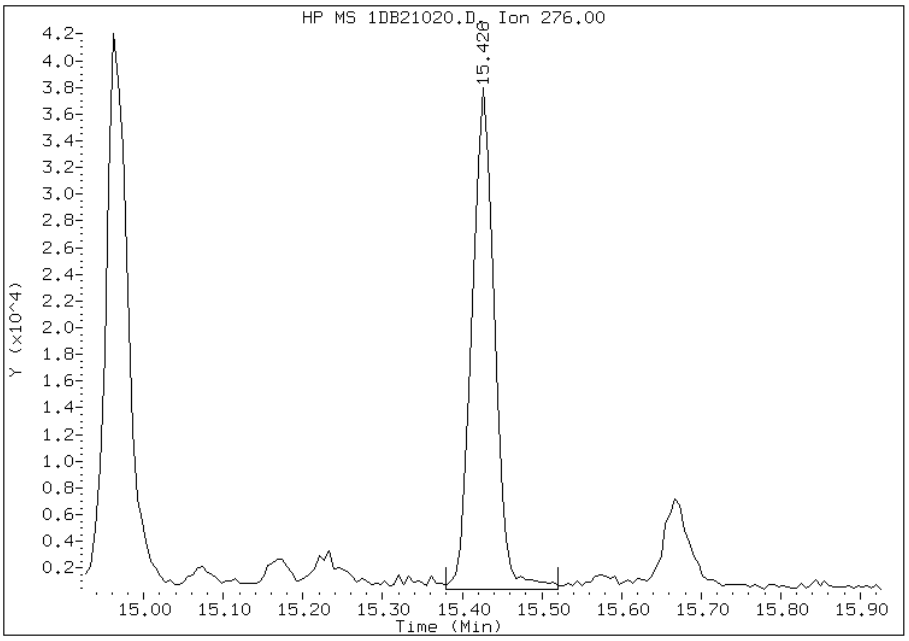
Manual Integration Results

RT: 15.43

Response: 73714

Amount: 1

Conc: 91



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB21020.D
Inj. Date and Time: 21-FEB-2013 18:21
Instrument ID: BSMSD.i
Client ID: CV0971MM-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

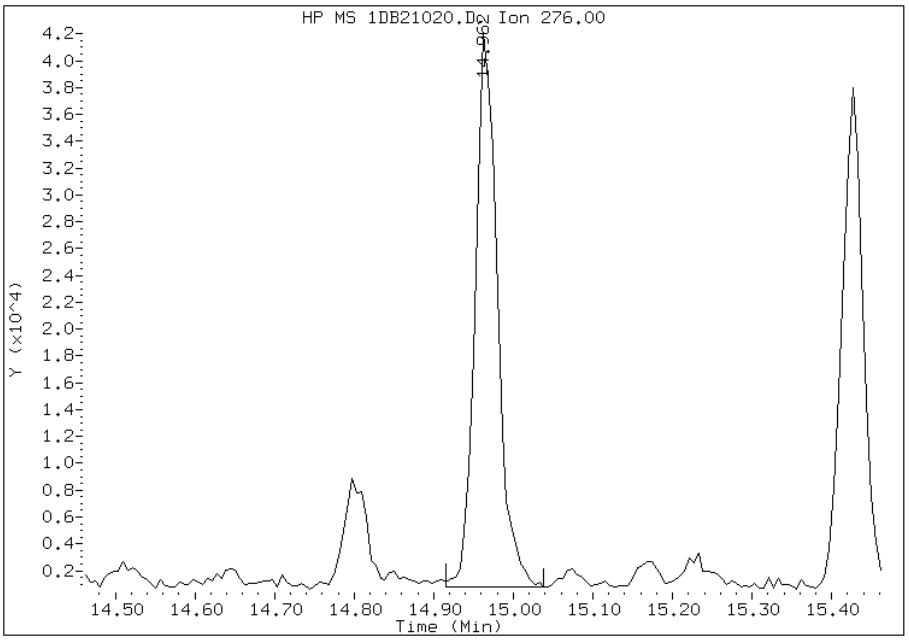
Processing Integration Results

RT: 14.96

Response: 79931

Amount: 1

Conc: 95



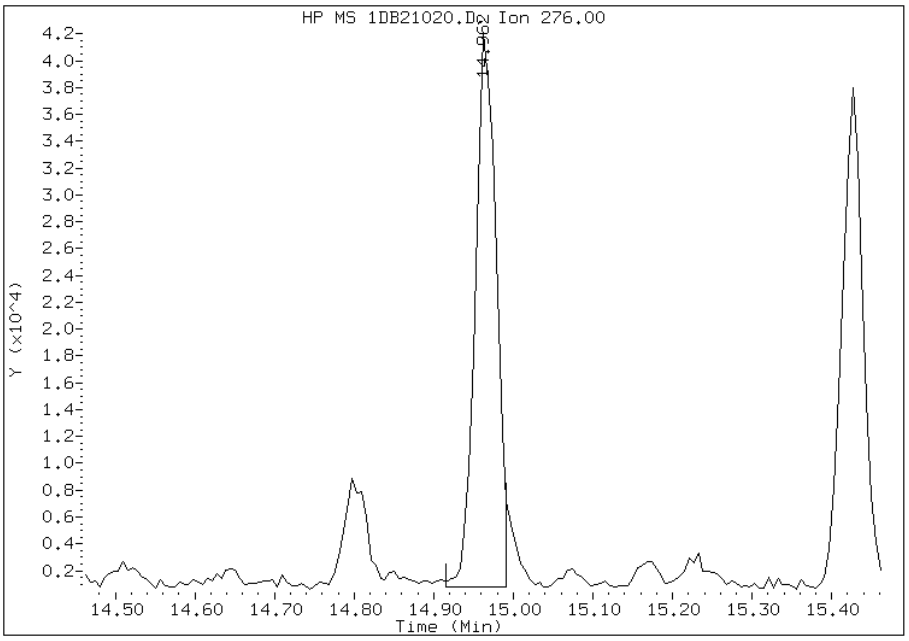
Manual Integration Results

RT: 14.96

Response: 75794

Amount: 1

Conc: 90



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971NN-CS | Lab Sample ID: 680-87496-24

Matrix: Solid | Lab File ID: 1DB21021.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:10

Extract. Method: 3546 | Date Extracted: 02/20/2013 11:26

Sample wt/vol: 14.98(g) | Date Analyzed: 02/21/2013 18:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

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

% Moisture: 52.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430	J	840	170
208-96-8	Acenaphthylene	200	J	330	42
120-12-7	Anthracene	730		70	35
56-55-3	Benzo[a]anthracene	2200		67	33
50-32-8	Benzo[a]pyrene	2000		87	43
205-99-2	Benzo[b]fluoranthene	3100		100	51
191-24-2	Benzo[g,h,i]perylene	970		170	37
207-08-9	Benzo[k]fluoranthene	1300		67	30
218-01-9	Chrysene	2400		75	38
53-70-3	Dibenz(a,h)anthracene	320		170	34
206-44-0	Fluoranthene	4900		170	33
86-73-7	Fluorene	260		170	34
193-39-5	Indeno[1,2,3-cd]pyrene	1000		170	59
90-12-0	1-Methylnaphthalene	570		330	37
91-57-6	2-Methylnaphthalene	680		330	59
91-20-3	Naphthalene	610		330	37
85-01-8	Phenanthrene	3200		67	33
129-00-0	Pyrene	3800		170	31

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	114		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21021.D
Lab Smp Id: 680-87496-A-24-A Client Smp ID: CV0971NN-CS
Inj Date : 21-FEB-2013 18:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-24-A
Misc Info : 680-87496-A-24-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.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	14.980	Weight Extracted
M	52.099	% 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	6.195	(1.000)	3131786	40.0000	
* 6 Acenaphthene-d10	164	7.863	7.863	(1.000)	1862688	40.0000	
* 9 Phenanthrene-d10	188	9.121	9.127	(1.000)	3090767	40.0000	
$ 13 o-Terphenyl	230	9.426	9.432	(1.033)	130411	2.84177	1600
* 17 Chrysene-d12	240	11.471	11.477	(1.000)	3019936	40.0000	
* 22 Perylene-d12	264	13.351	13.363	(1.000)	3026119	40.0000	
2 Naphthalene	128	6.212	6.212	(1.004)	91091	1.09982	610
3 2-Methylnaphthalene	142	6.911	6.912	(1.117)	63879	1.21434	680
4 1-Methylnaphthalene	142	7.000	7.006	(1.131)	50999	1.03070	570
5 Acenaphthylene	152	7.734	7.734	(0.984)	28672	0.35652	200
7 Acenaphthene	154	7.887	7.893	(1.003)	38263	0.78014	430
8 Fluorene	166	8.327	8.333	(1.059)	27337	0.46910	260
10 Phenanthrene	178	9.138	9.144	(1.002)	499487	5.65666	3200
11 Anthracene	178	9.179	9.185	(1.006)	113903	1.31658	730

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.315	9.320	(1.021)	75842	0.98978	550
14 Fluoranthene	202	10.119	10.125	(1.110)	784215	8.86620	4900
15 Pyrene	202	10.308	10.313	(0.899)	650706	6.90105	3800
16 Benzo(a)anthracene	228	11.447	11.447	(0.998)	356442	4.03508	2200
18 Chrysene	228	11.488	11.500	(1.002)	372097	4.37151	2400
19 Benzo(b)fluoranthene	252	12.787	12.793	(0.958)	430258	5.60100	3100
20 Benzo(k)fluoranthene	252	12.816	12.840	(0.960)	193349	2.38286	1300
21 Benzo(a)pyrene	252	13.245	13.263	(0.992)	270464	3.57102	2000
23 Indeno(1,2,3-cd)pyrene	276	14.961	14.990	(1.121)	147983	1.83055	1000(M)
24 Dibenzo(a,h)anthracene	278	14.990	15.026	(1.123)	42702	0.57564	320
25 Benzo(g,h,i)perylene	276	15.419	15.460	(1.155)	134839	1.74332	970

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DB21021.D

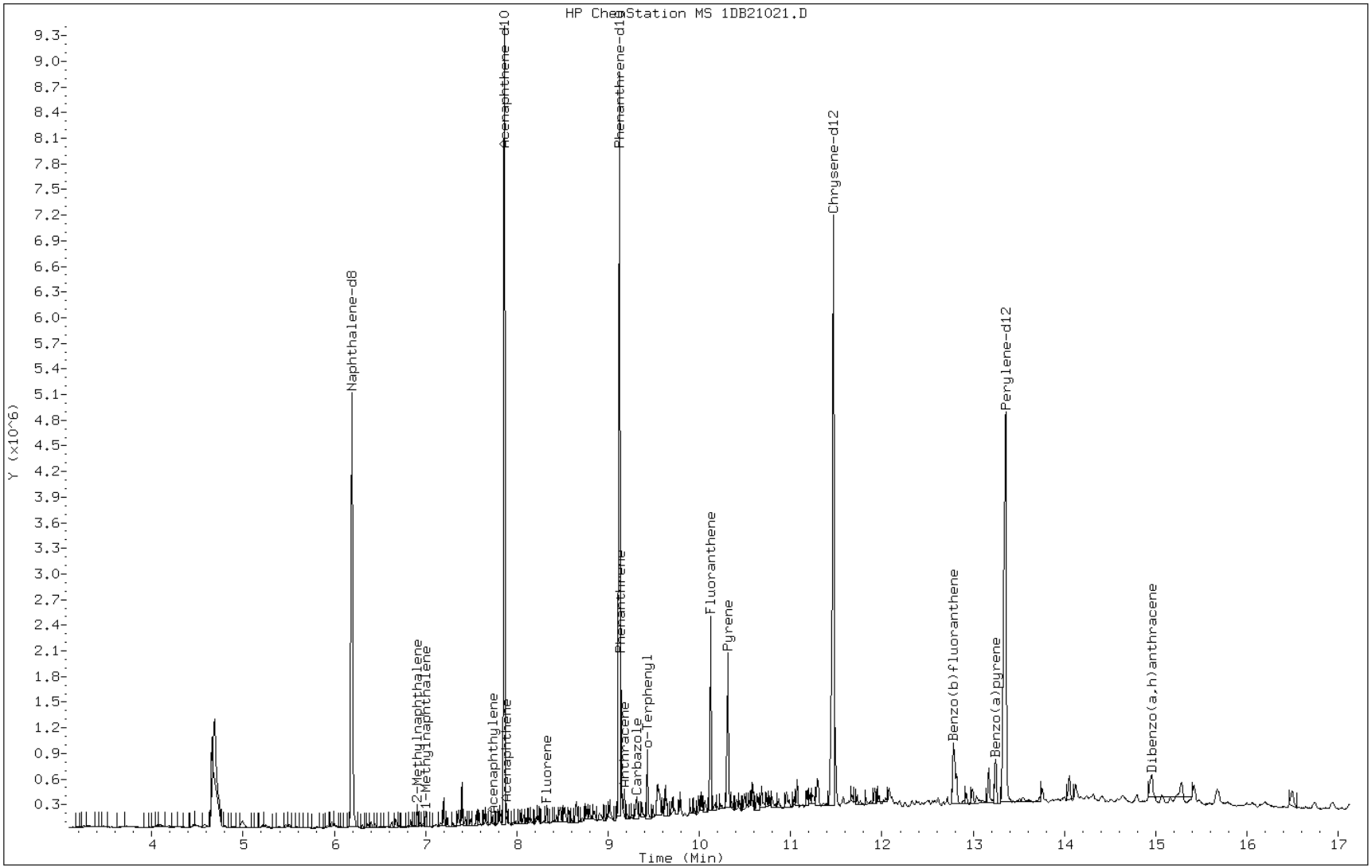
Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS

Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A

Operator: SCC



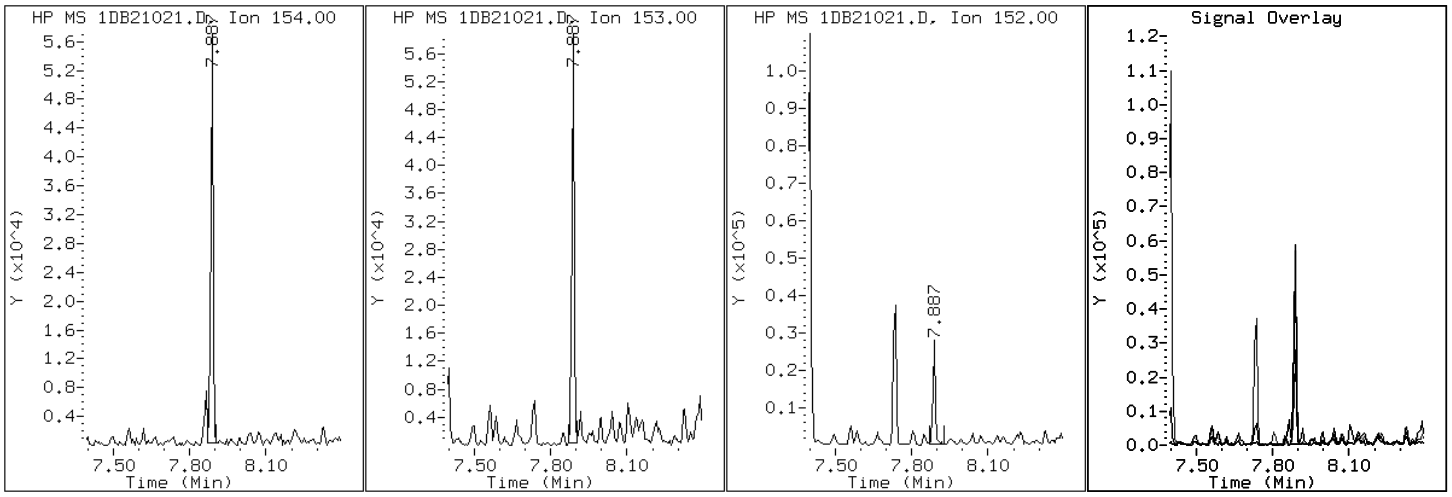
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

7 Acenaphthene



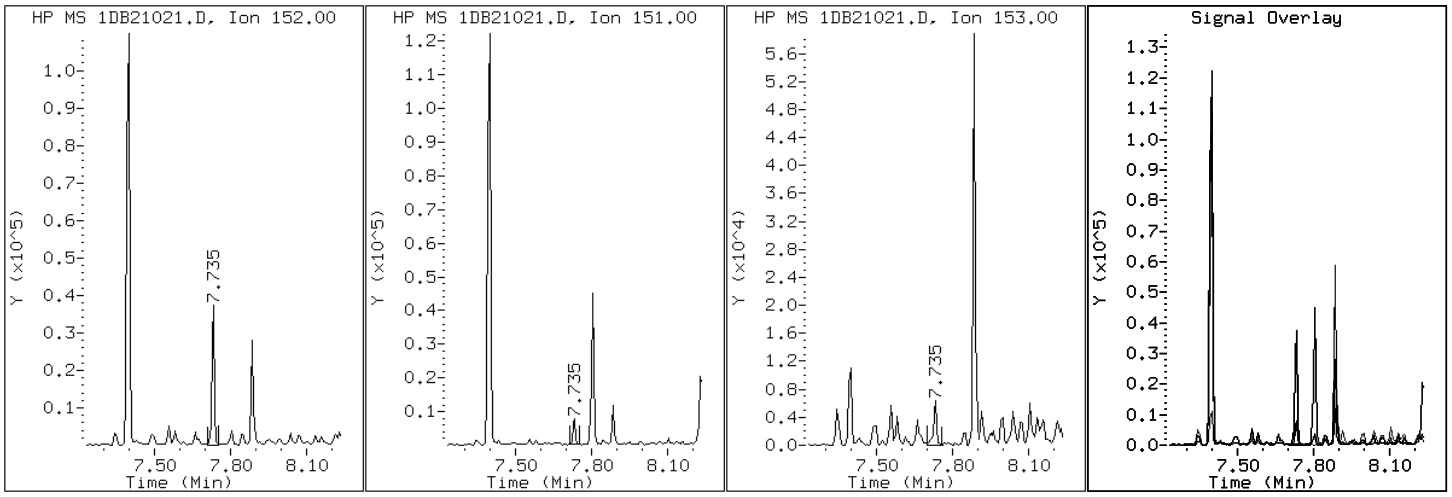
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

5 Acenaphthylene



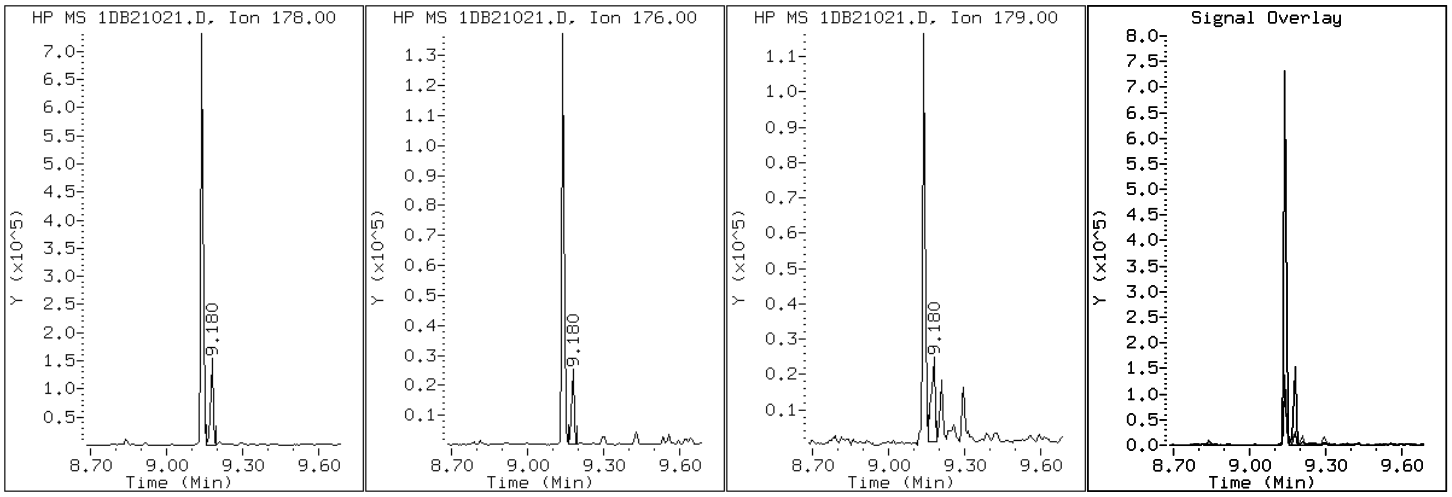
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

11 Anthracene



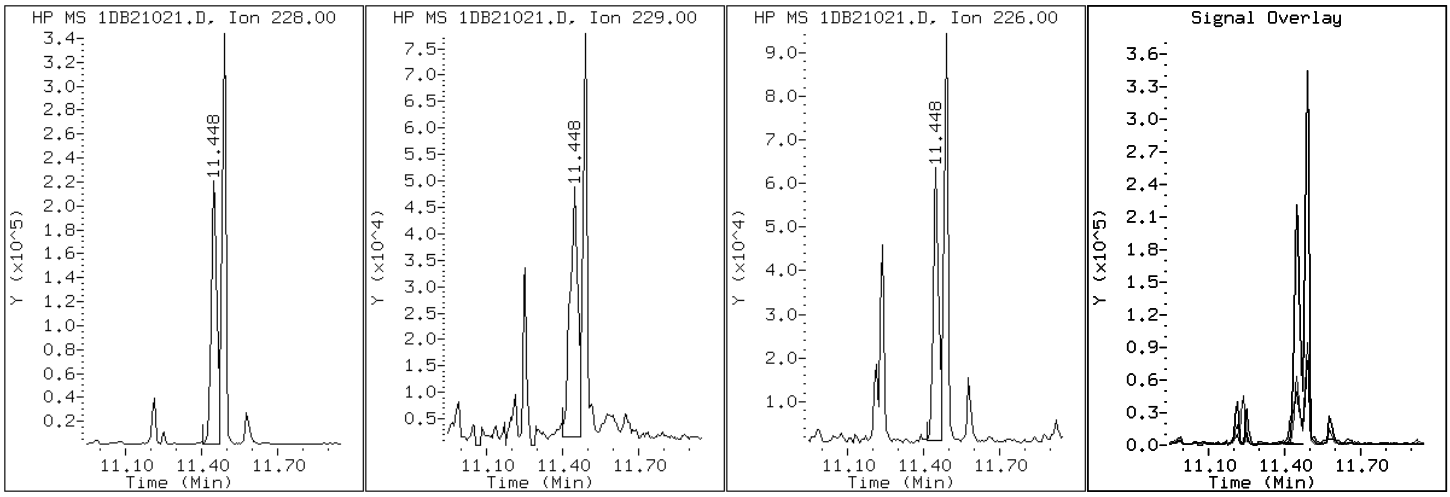
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

16 Benzo(a)anthracene



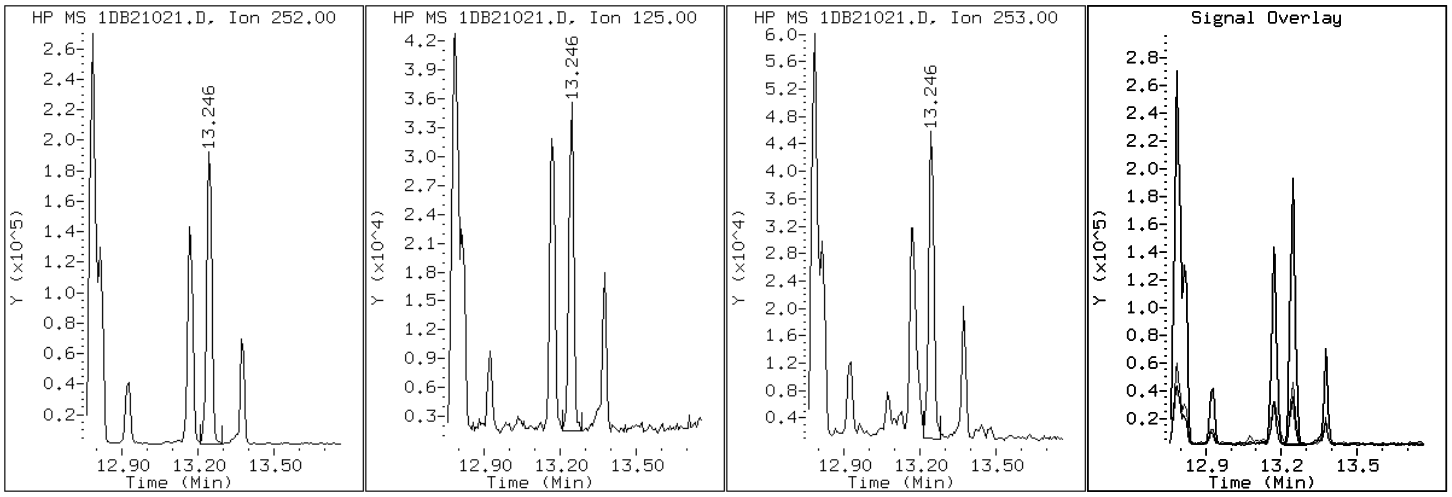
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

21 Benzo(a)pyrene



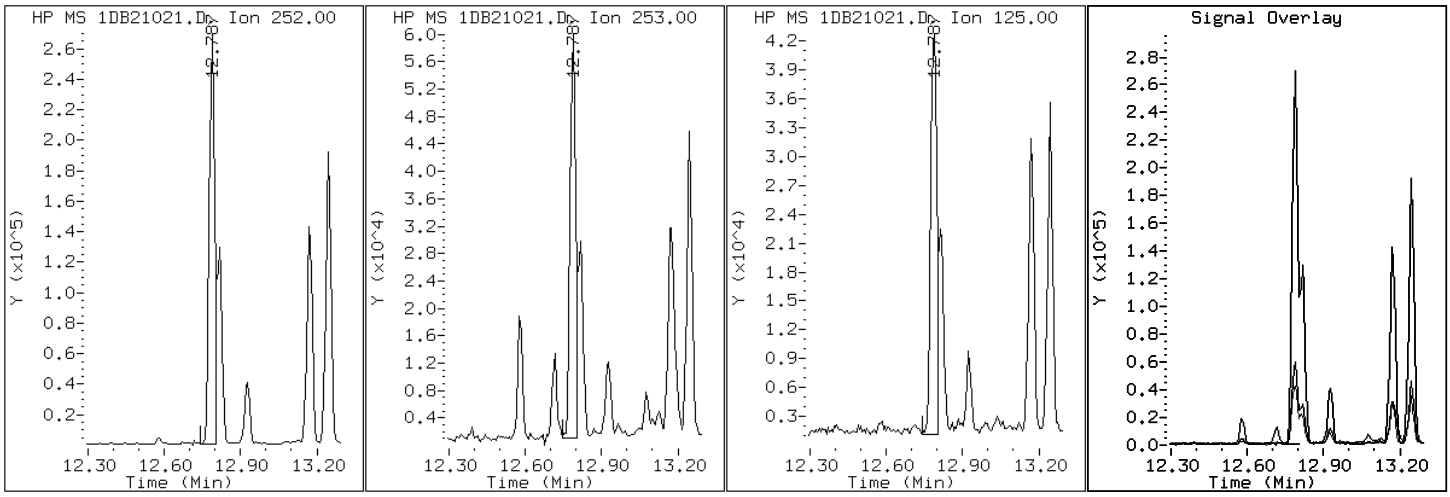
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

19 Benzo(b)fluoranthene



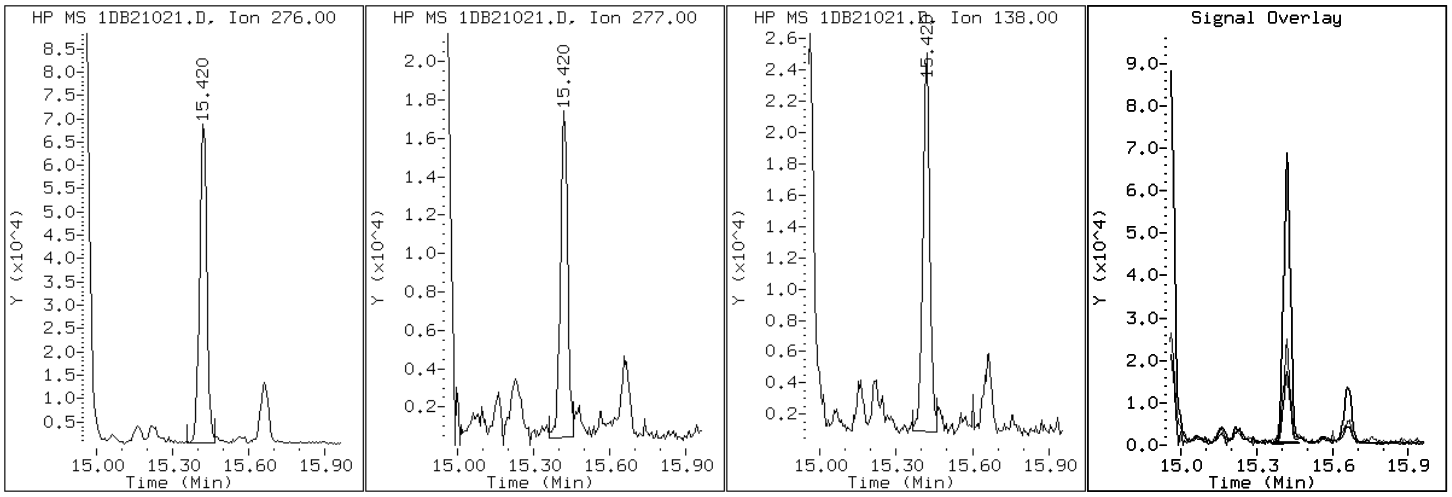
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

25 Benzo(g,h,i)perylene



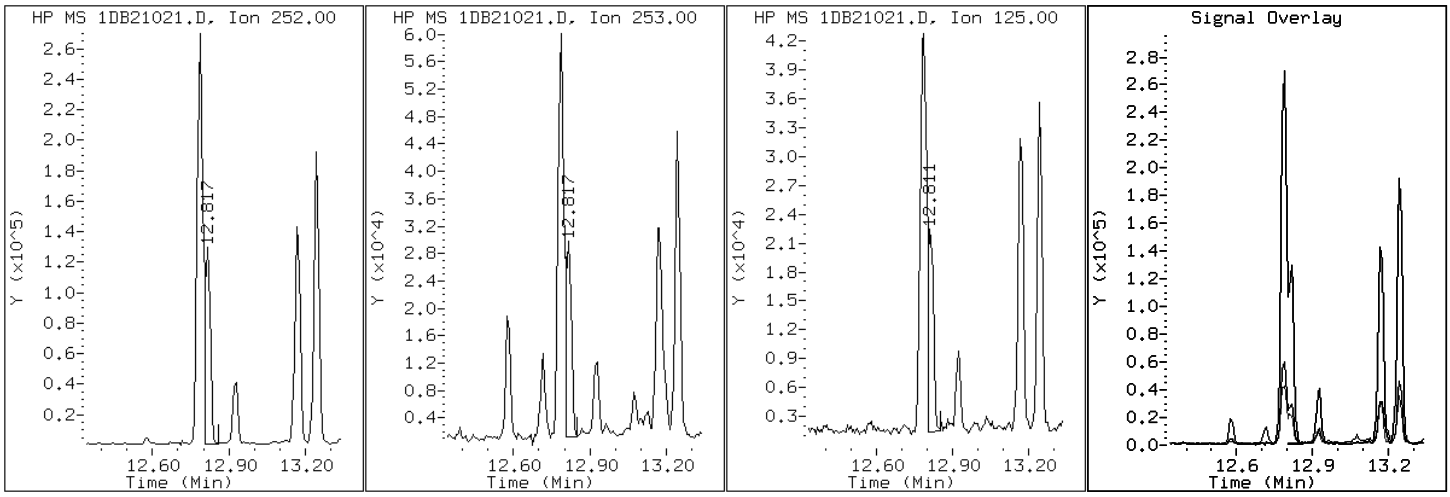
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

20 Benzo(k)fluoranthene



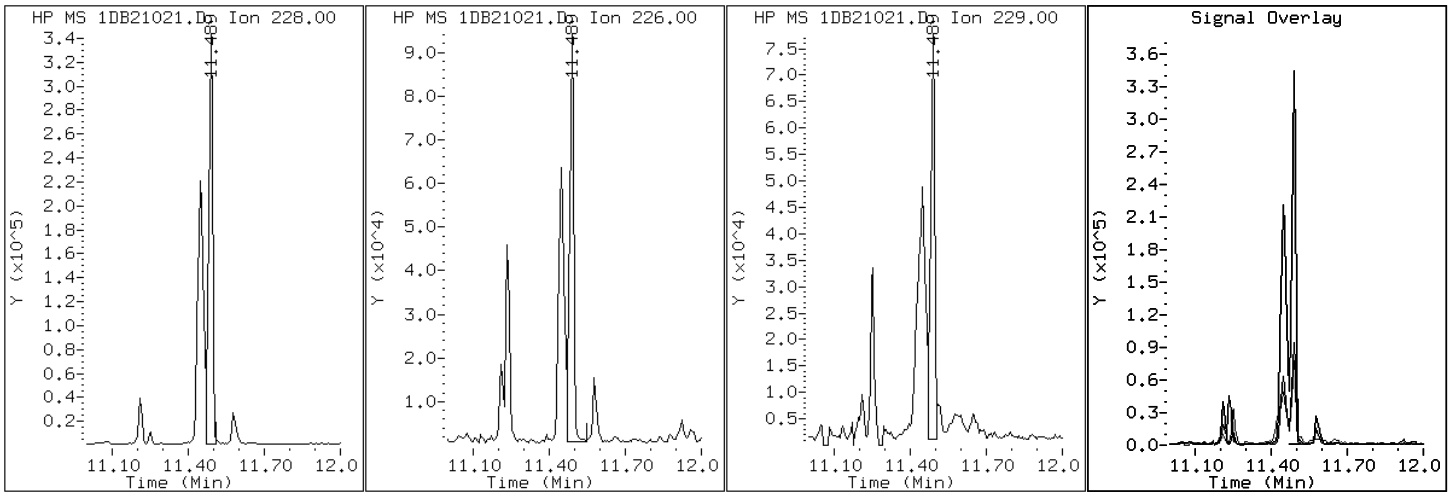
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

18 Chrysene



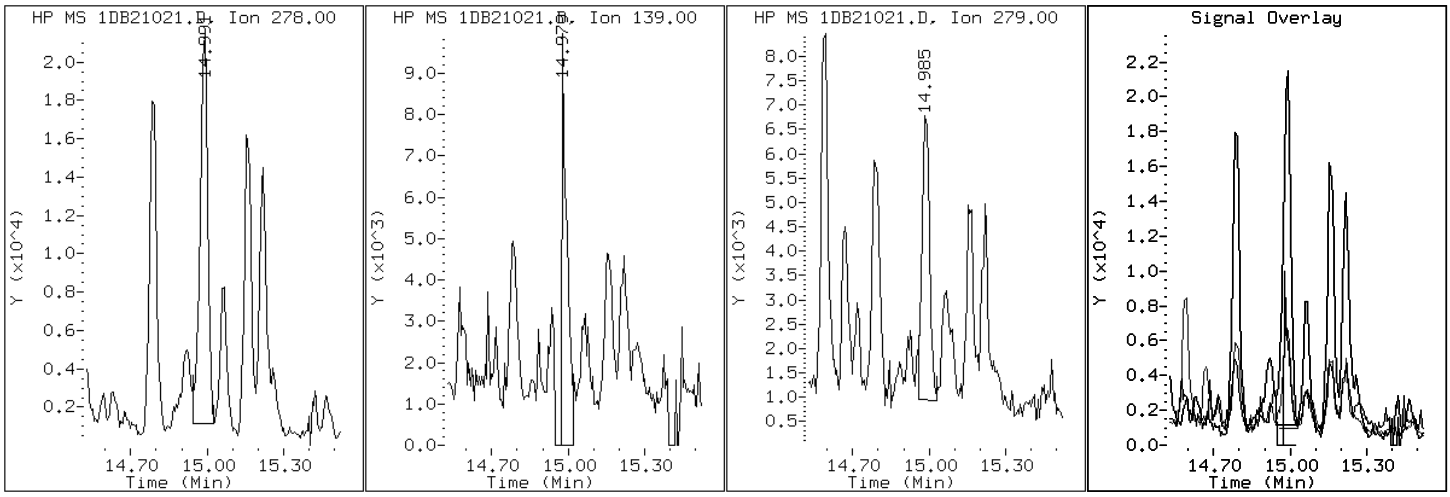
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

24 Dibenzo(a,h)anthracene



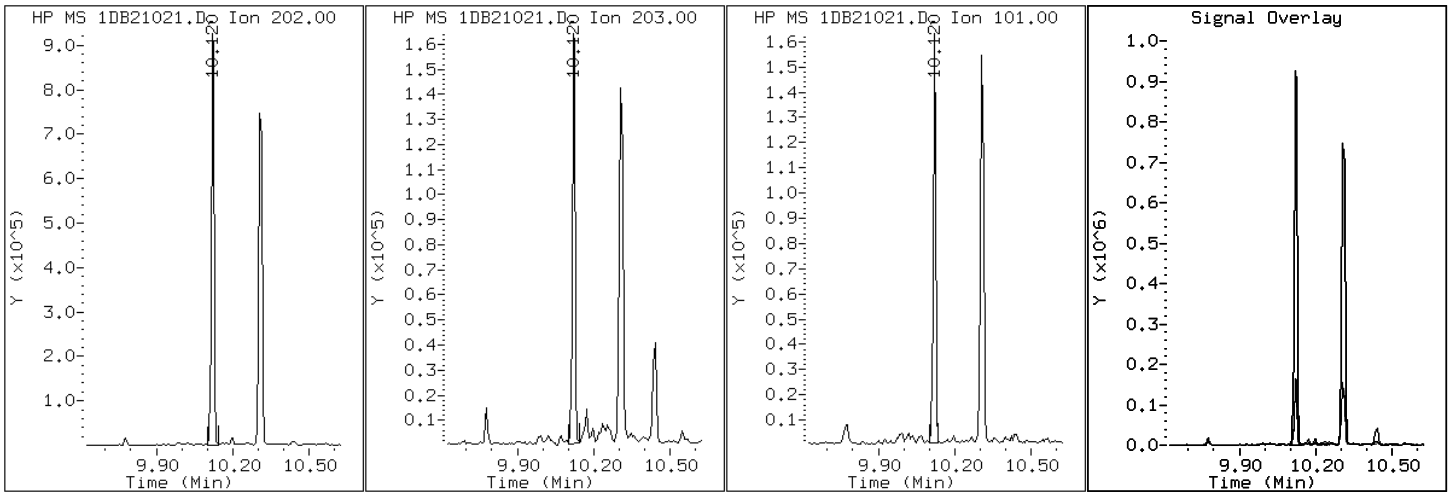
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

14 Fluoranthene



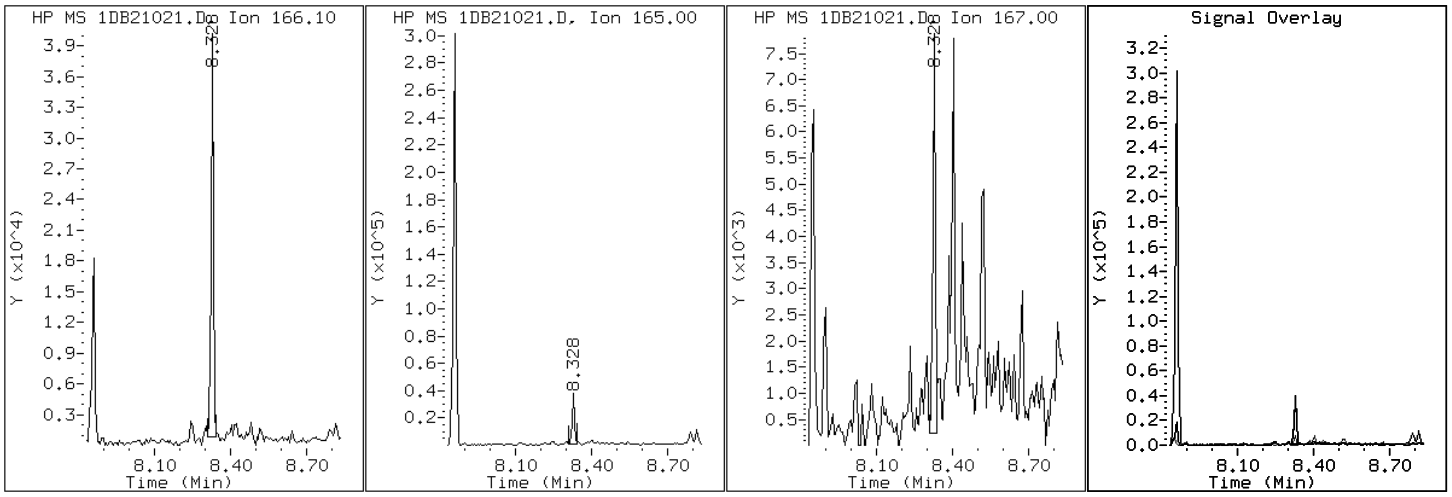
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

8 Fluorene



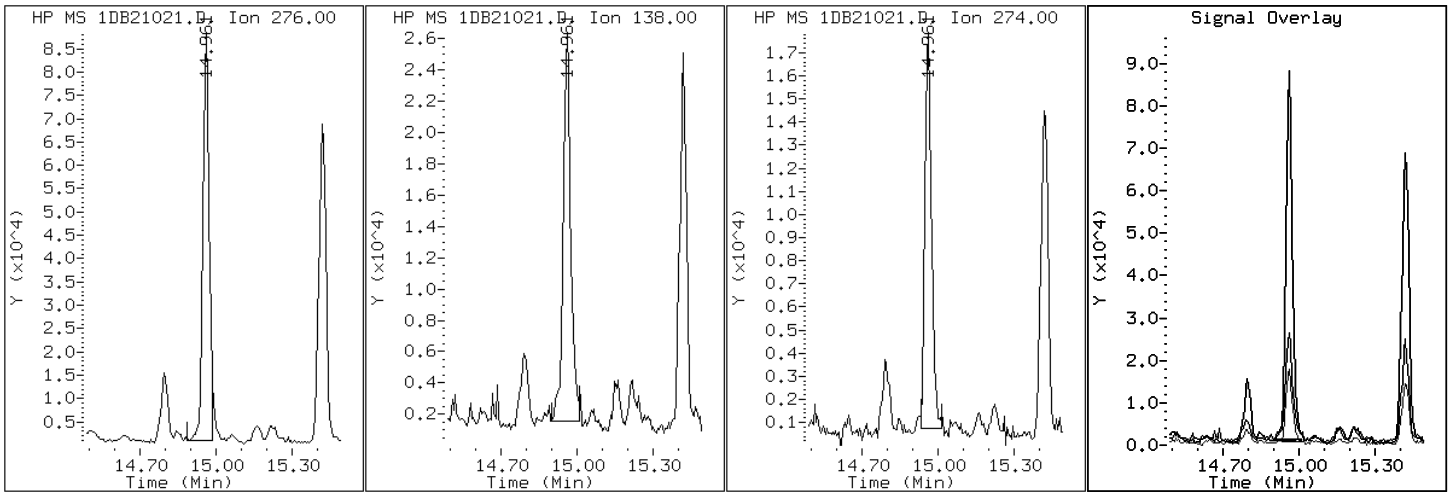
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

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



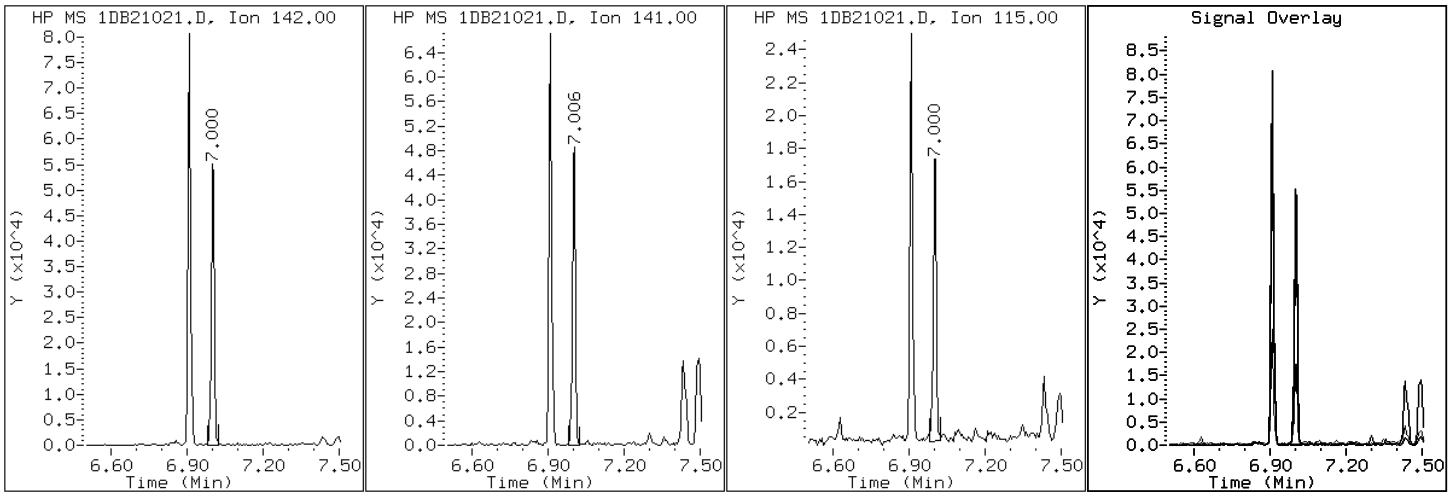
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

4 1-Methylnaphthalene



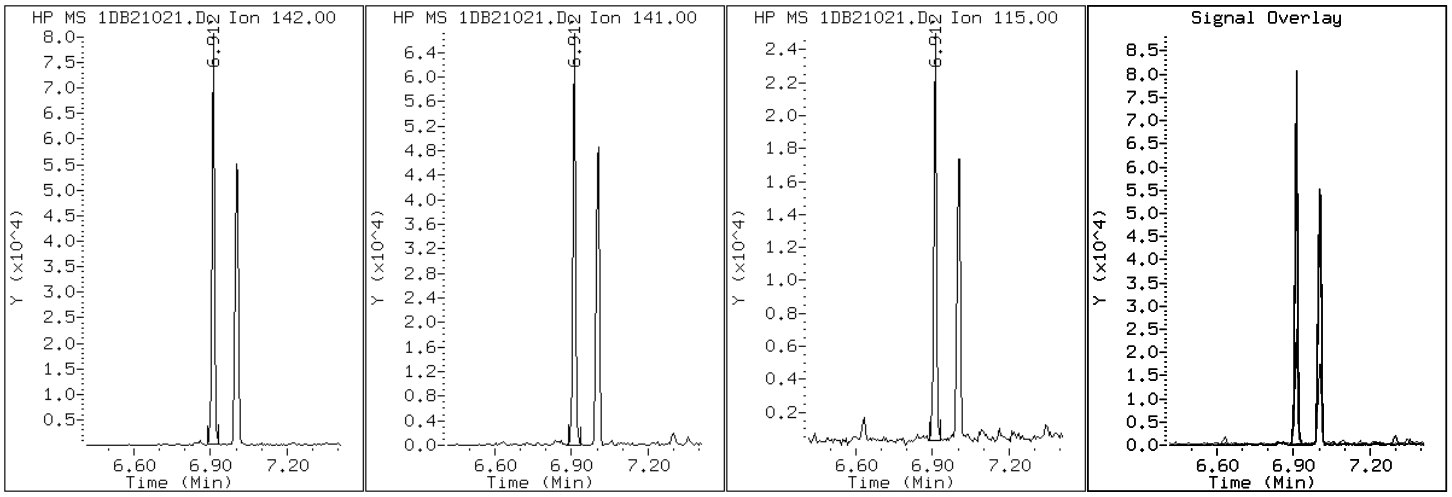
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

3 2-Methylnaphthalene



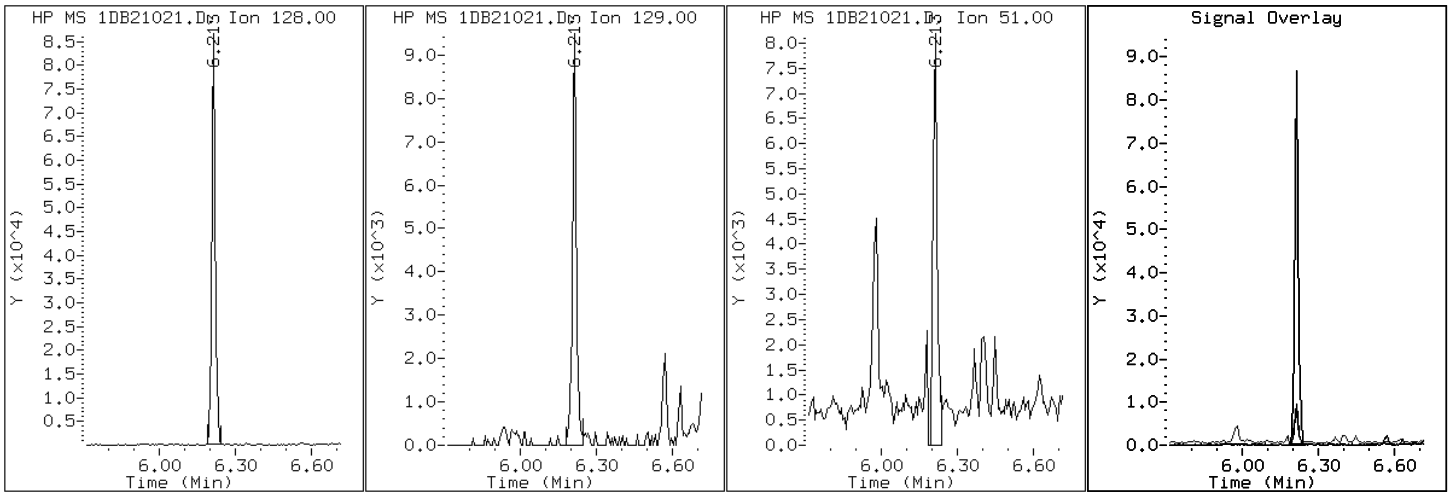
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

2 Naphthalene



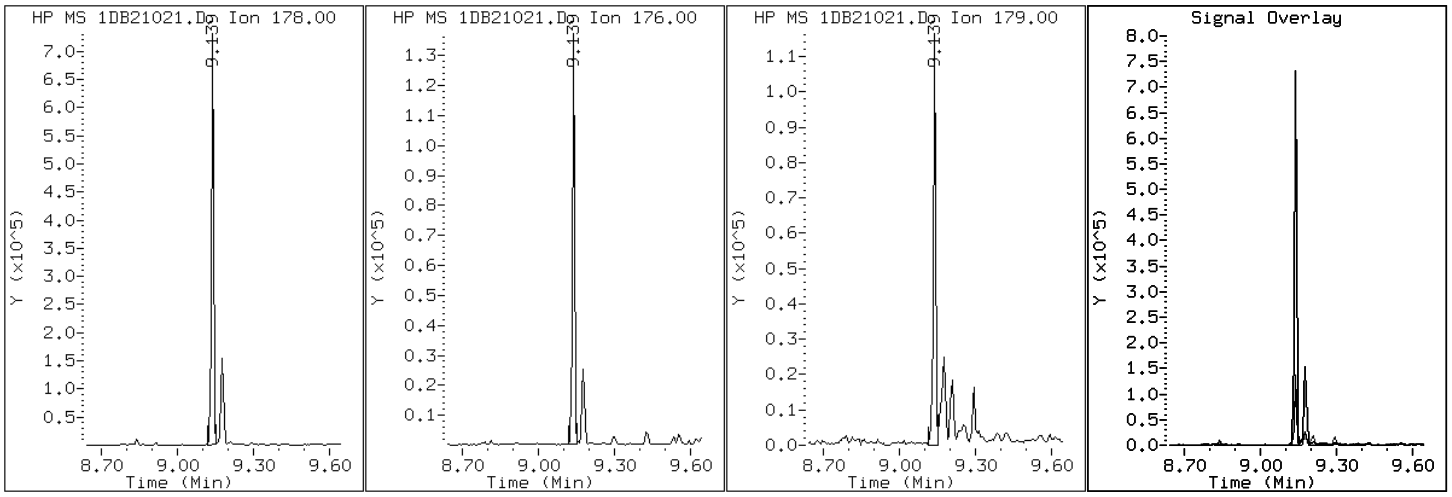
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

10 Phenanthrene



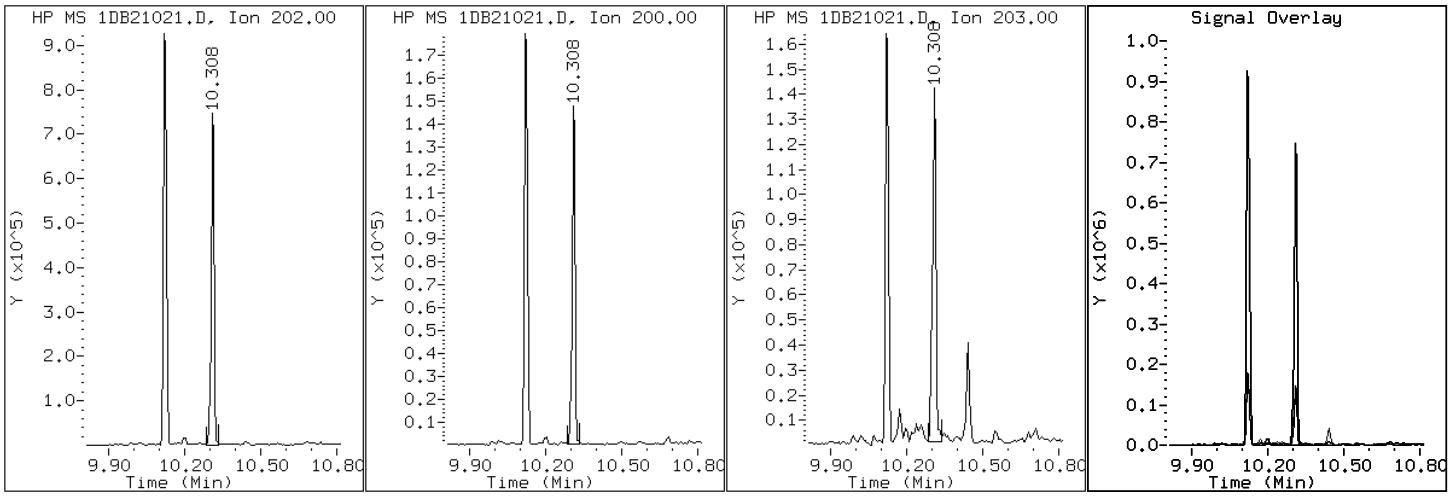
Data File: 1DB21021.D

Date: 21-FEB-2013 18:43

Client ID: CV0971NN-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-24-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB21021.D
Inj. Date and Time: 21-FEB-2013 18:43
Instrument ID: BSMSD.i
Client ID: CV0971NN-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

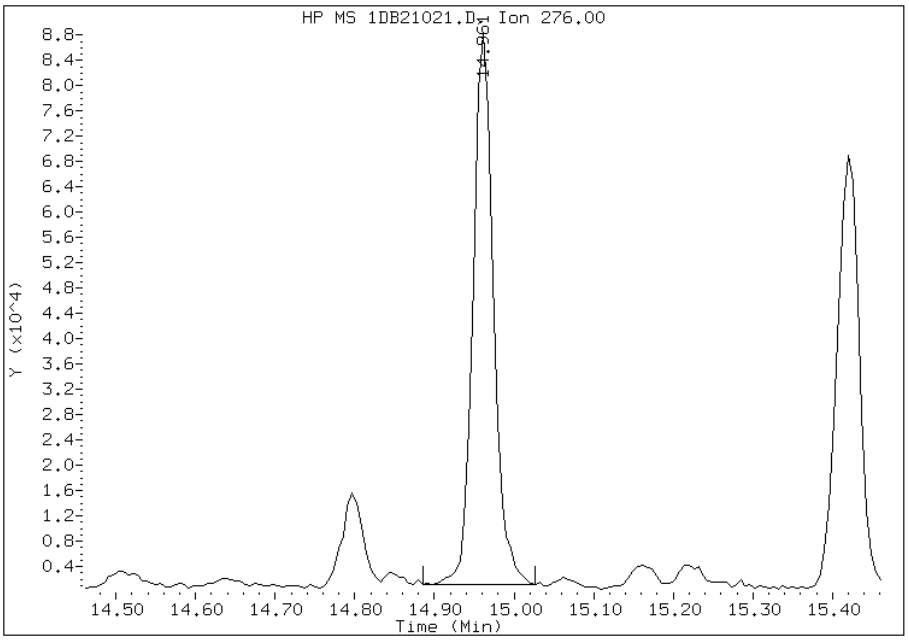
Processing Integration Results

RT: 14.96

Response: 154739

Amount: 2

Conc: 1067



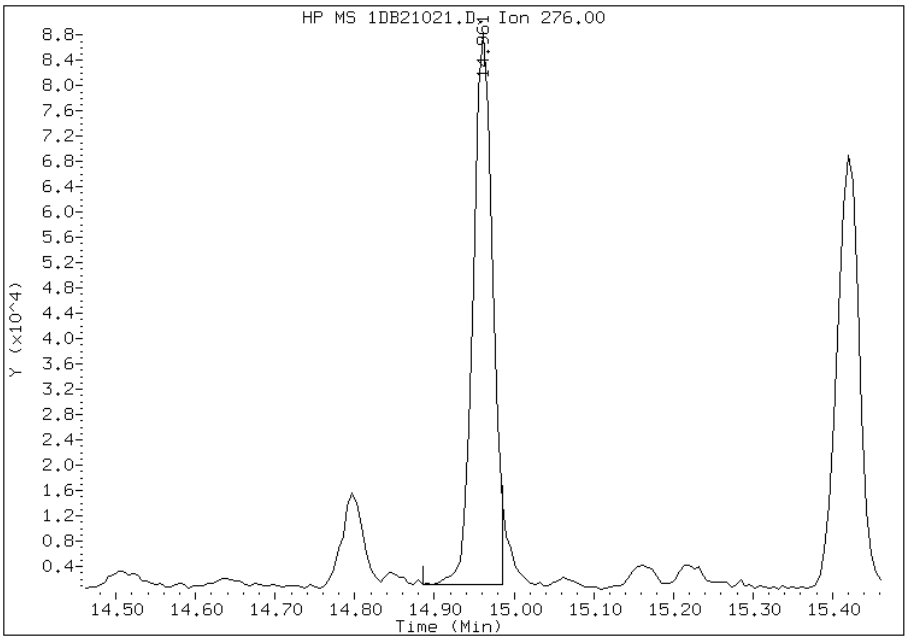
Manual Integration Results

RT: 14.96

Response: 147983

Amount: 2

Conc: 1020



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV097100-CS | Lab Sample ID: 680-87496-25

Matrix: Solid | Lab File ID: 1DB21022.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:13

Extract. Method: 3546 | Date Extracted: 02/20/2013 11:26

Sample wt/vol: 15.31(g) | Date Analyzed: 02/21/2013 19:06

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

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

% Moisture: 35.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	47	J	60	7.5
120-12-7	Anthracene	76		13	6.3
56-55-3	Benzo[a]anthracene	280		12	5.9
50-32-8	Benzo[a]pyrene	310		16	7.9
205-99-2	Benzo[b]fluoranthene	520		18	9.2
191-24-2	Benzo[g,h,i]perylene	180		30	6.6
207-08-9	Benzo[k]fluoranthene	180		12	5.4
218-01-9	Chrysene	360		14	6.8
53-70-3	Dibenz(a,h)anthracene	58		30	6.2
206-44-0	Fluoranthene	560		30	6.0
86-73-7	Fluorene	19	J	30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	170		30	11
90-12-0	1-Methylnaphthalene	110		60	6.6
91-57-6	2-Methylnaphthalene	120		60	11
91-20-3	Naphthalene	130		60	6.6
85-01-8	Phenanthrene	310		12	5.9
129-00-0	Pyrene	450		30	5.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21022.D
Lab Smp Id: 680-87496-A-25-A Client Smp ID: CV0971OO-CS
Inj Date : 21-FEB-2013 19:06
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-25-A
Misc Info : 680-87496-A-25-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 22
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	15.310	Weight Extracted
M	35.101	% 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	6.190	6.195	(1.000)	3314630	40.0000	
* 6 Acenaphthene-d10	164	7.864	7.863	(1.000)	1974792	40.0000	
* 9 Phenanthrene-d10	188	9.122	9.127	(1.000)	3284415	40.0000	
$ 13 o-Terphenyl	230	9.427	9.432	(1.033)	337052	6.91162	700
* 17 Chrysene-d12	240	11.472	11.477	(1.000)	3257914	40.0000	
* 22 Perylene-d12	264	13.358	13.363	(1.000)	3170314	40.0000	
2 Naphthalene	128	6.213	6.212	(1.004)	112217	1.28015	130
3 2-Methylnaphthalene	142	6.912	6.912	(1.117)	69067	1.24054	120
4 1-Methylnaphthalene	142	7.001	7.006	(1.131)	54757	1.04561	100
5 Acenaphthylene	152	7.735	7.734	(0.984)	39742	0.46612	47
7 Acenaphthene	154	7.888	7.893	(1.003)	11320	0.21770	22
8 Fluorene	166	8.328	8.333	(1.059)	11897	0.19256	19
10 Phenanthrene	178	9.139	9.144	(1.002)	292449	3.11670	310
11 Anthracene	178	9.180	9.185	(1.006)	69551	0.75653	76

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.315	9.320	(1.021)	37460	0.46005	46
14 Fluoranthene	202	10.120	10.125	(1.109)	521892	5.55253	560
15 Pyrene	202	10.308	10.313	(0.899)	458729	4.50967	450
16 Benzo(a)anthracene	228	11.454	11.447	(0.998)	269484	2.82784	280
18 Chrysene	228	11.495	11.500	(1.002)	327885	3.57072	360
19 Benzo(b)fluoranthene	252	12.788	12.793	(0.957)	413640	5.13976	520
20 Benzo(k)fluoranthene	252	12.823	12.840	(0.960)	149946	1.76391	180
21 Benzo(a)pyrene	252	13.246	13.263	(0.992)	244450	3.08075	310
23 Indeno(1,2,3-cd)pyrene	276	14.974	14.990	(1.121)	144001	1.70027	170(M)
24 Dibenzo(a,h)anthracene	278	14.997	15.026	(1.123)	44544	0.57316	58
25 Benzo(g,h,i)perylene	276	15.432	15.460	(1.155)	142916	1.76370	180(M)

QC Flag Legend

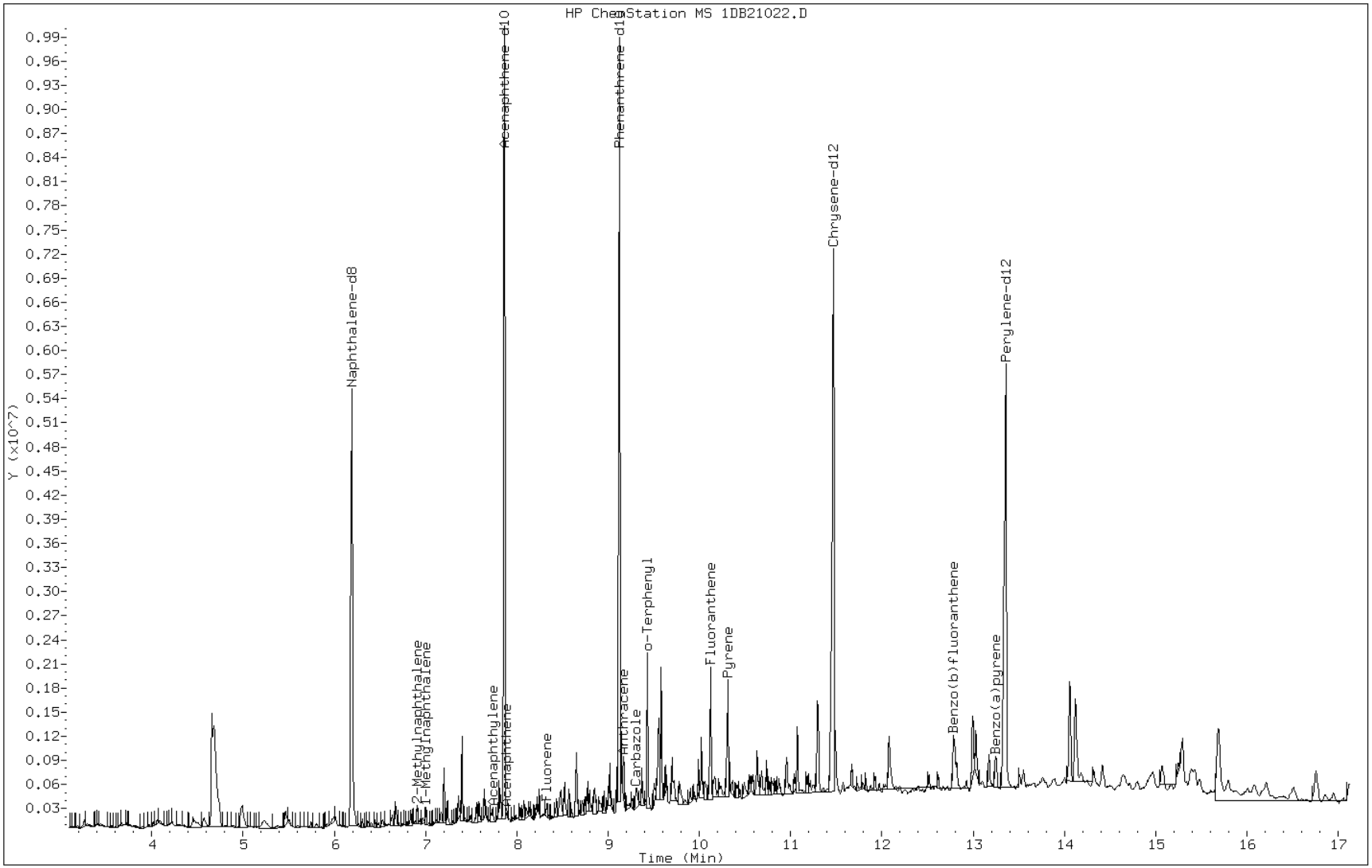
M - Compound response manually integrated.

Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC



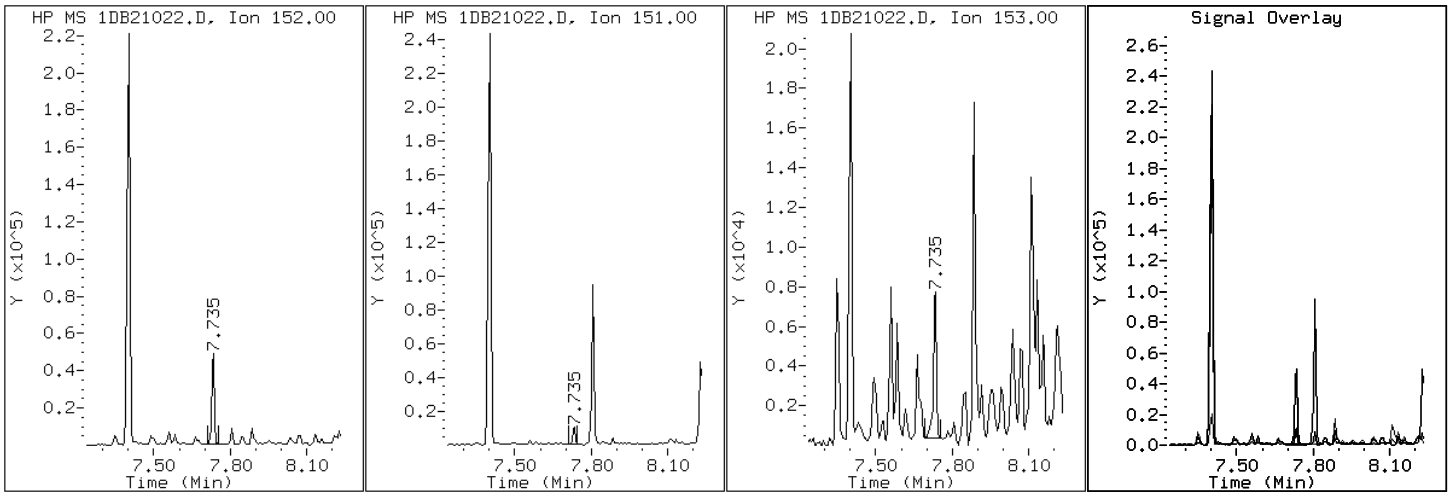
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

5 Acenaphthylene



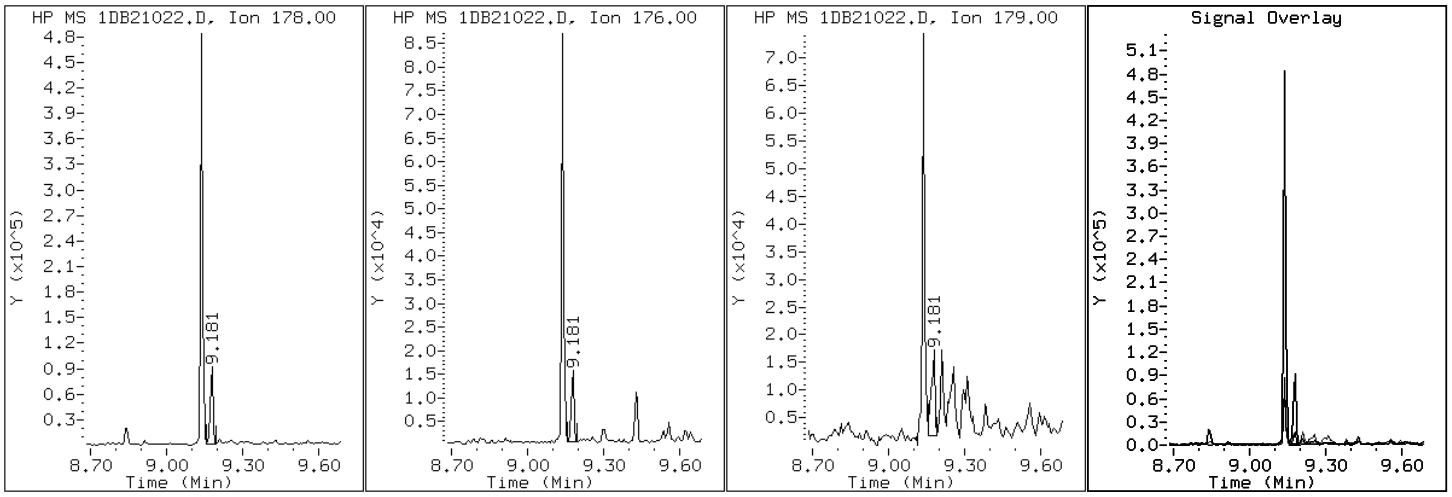
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

11 Anthracene



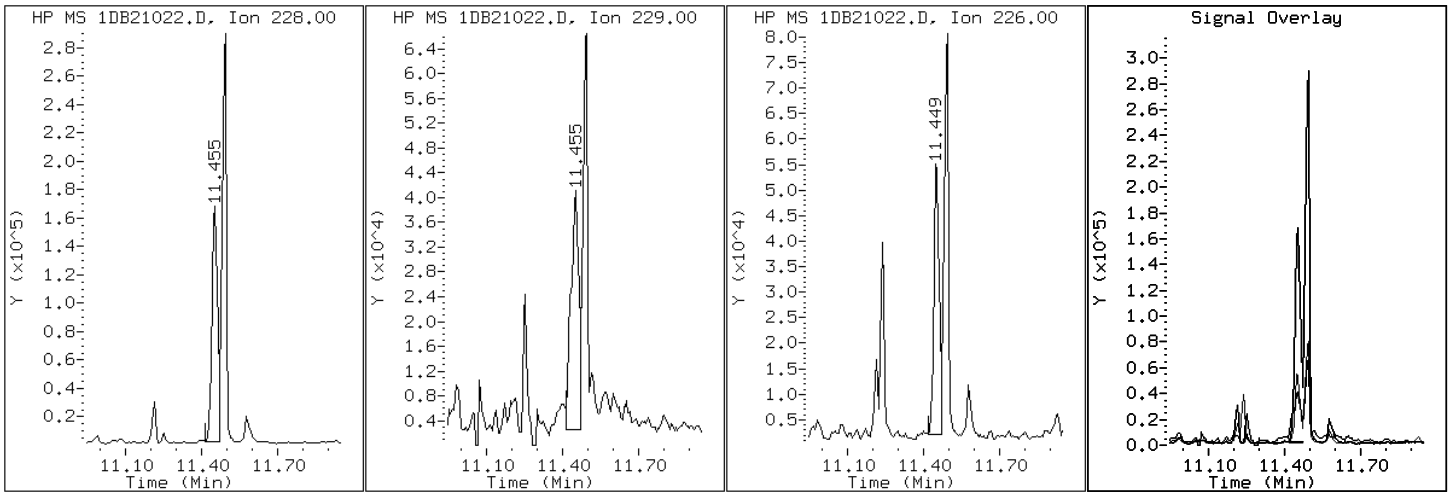
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

16 Benzo(a)anthracene



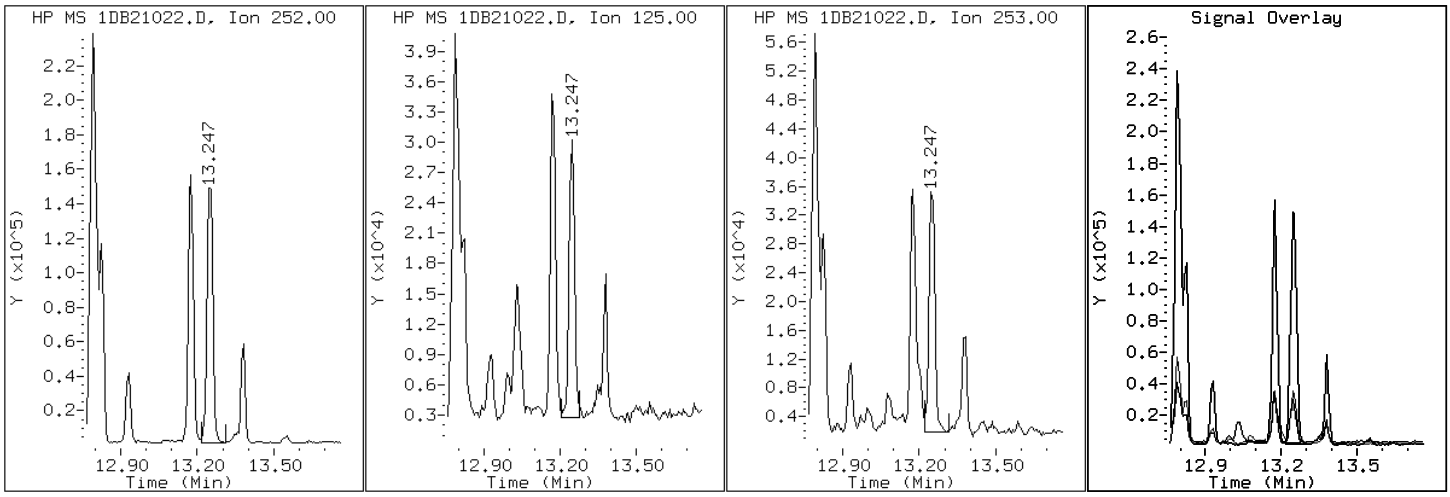
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

21 Benzo(a)pyrene



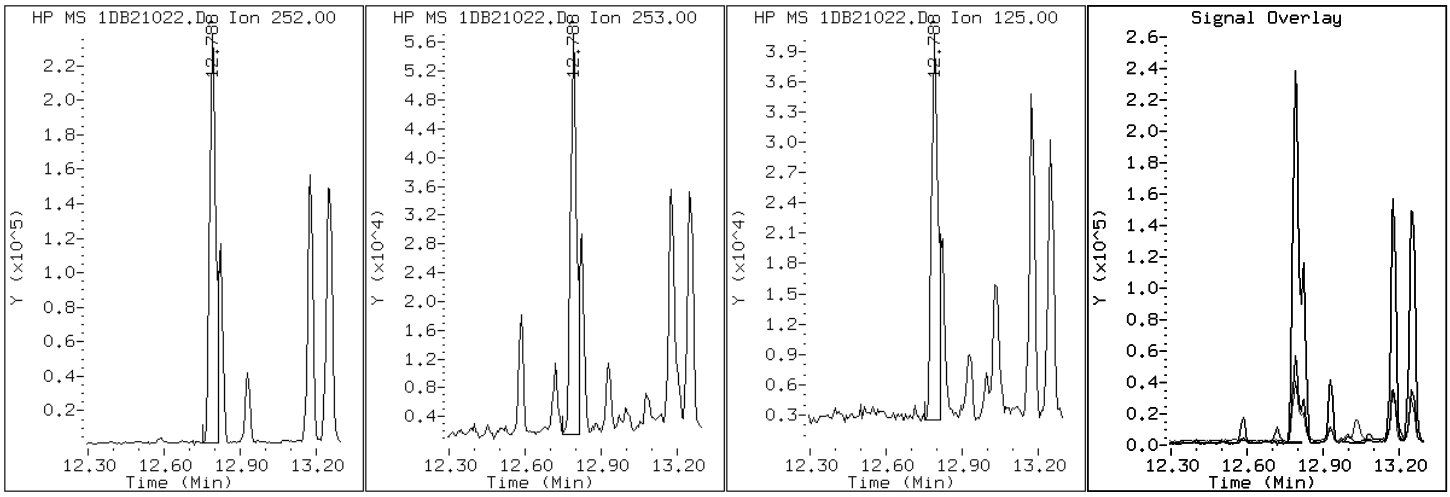
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

19 Benzo(b)fluoranthene



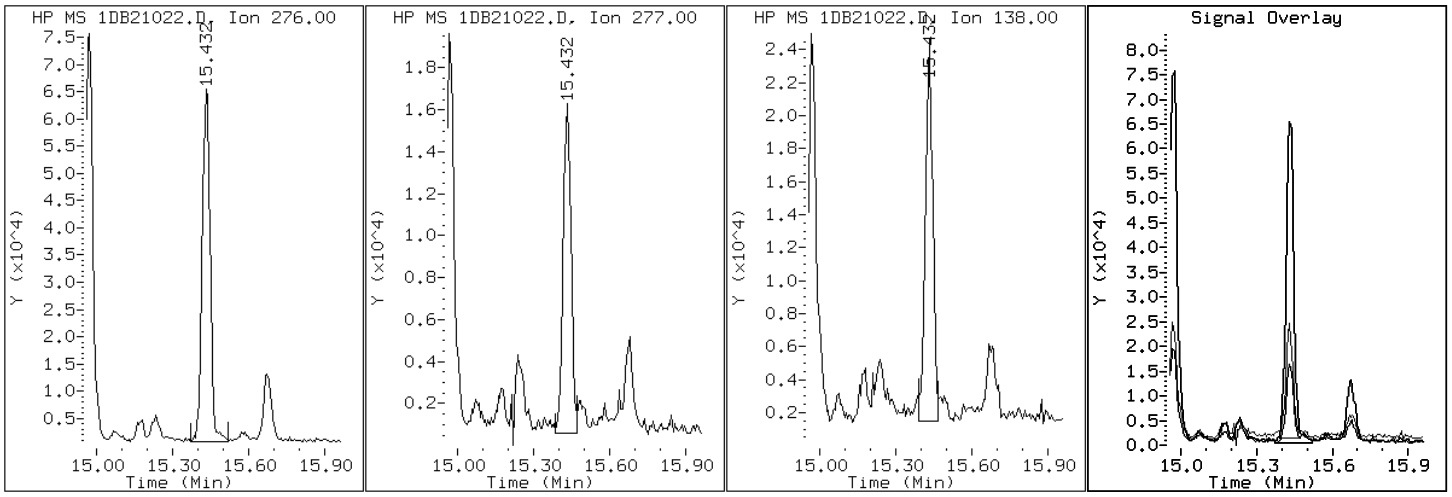
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

25 Benzo(g,h,i)perylene



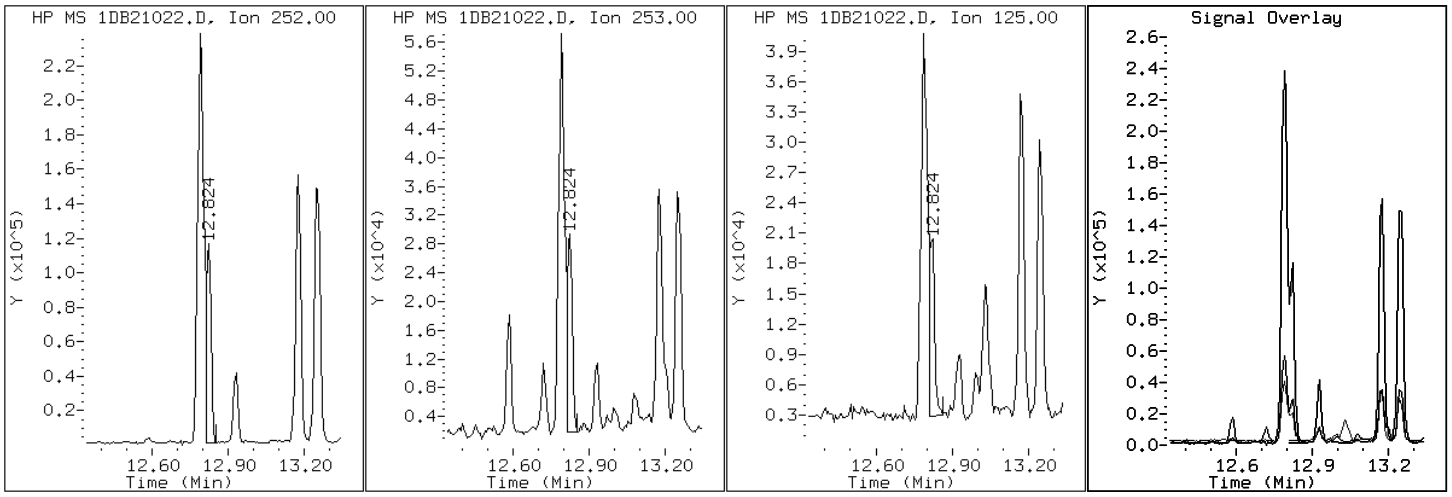
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

20 Benzo(k)fluoranthene



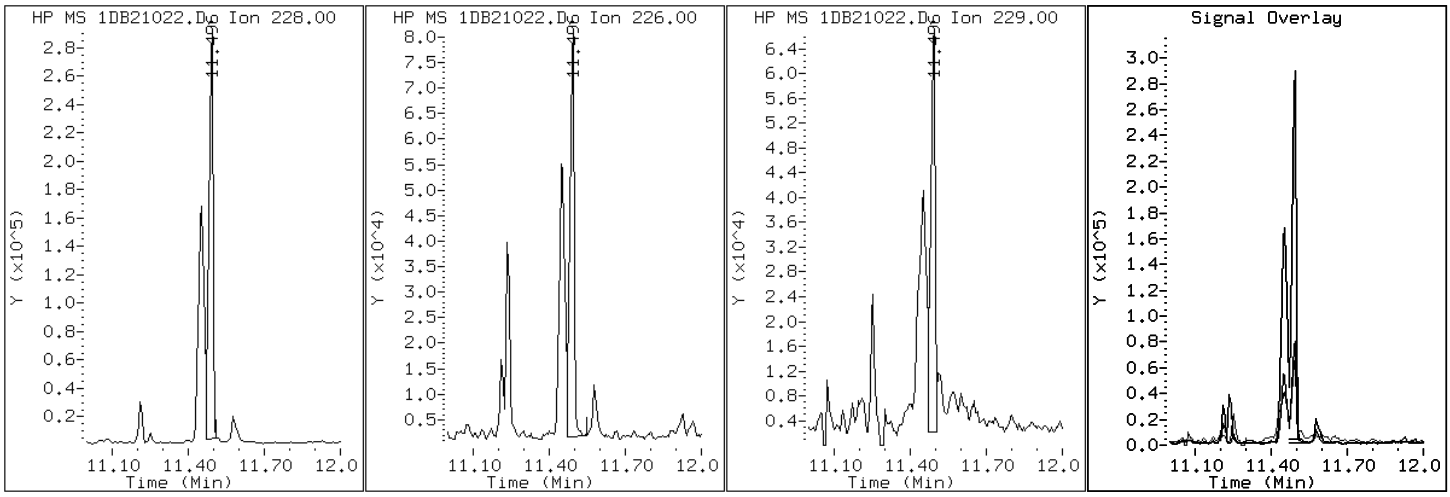
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

18 Chrysene



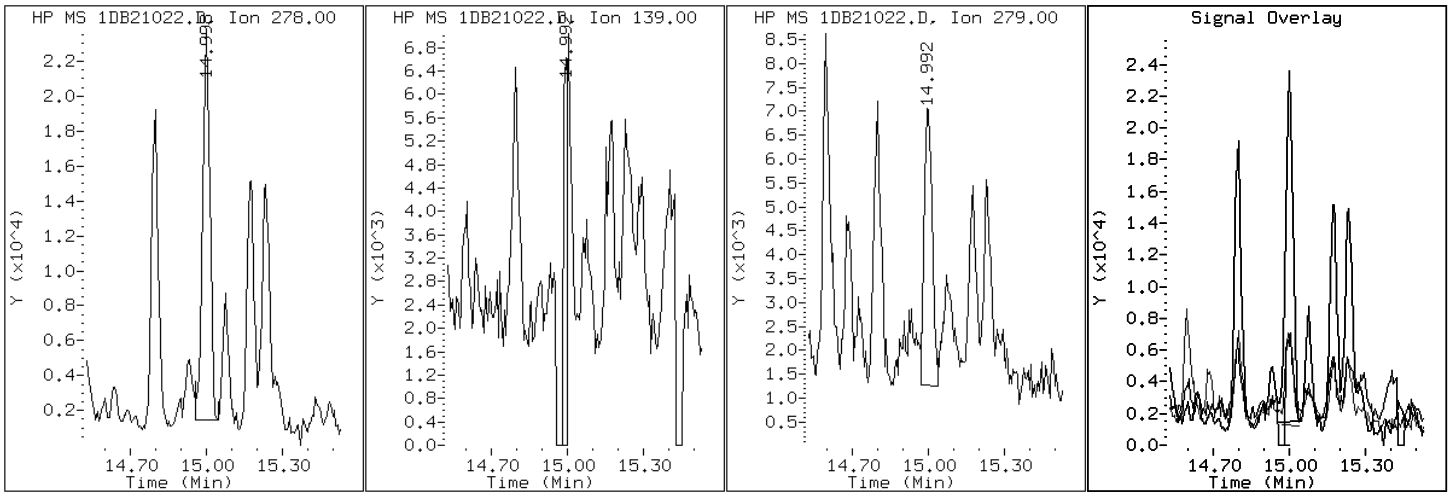
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

24 Dibenzo(a,h)anthracene



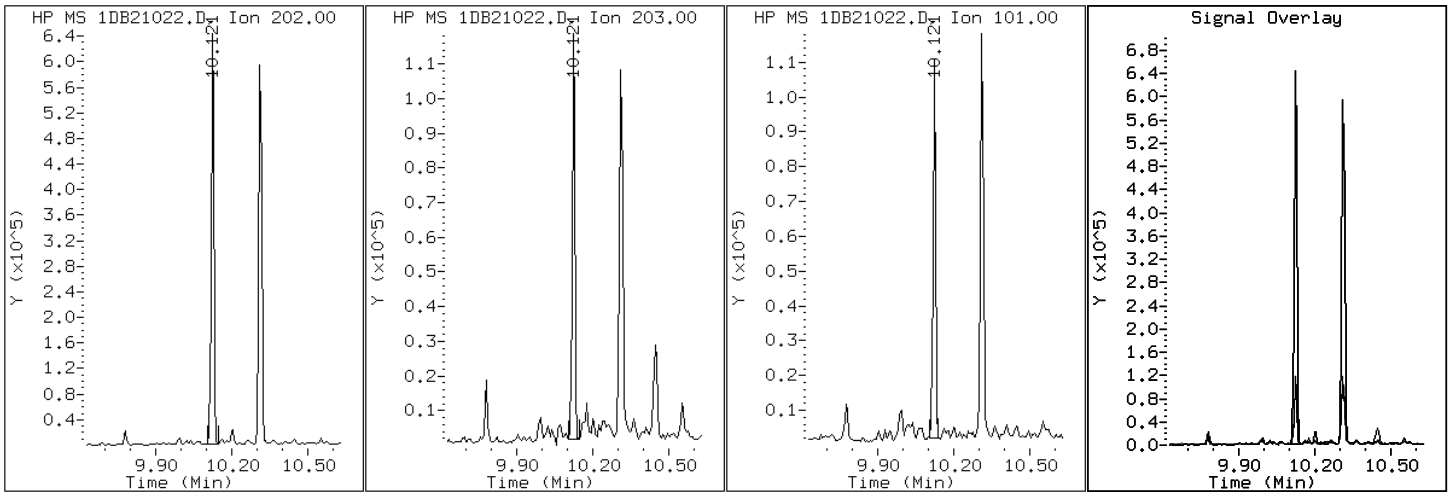
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

14 Fluoranthene



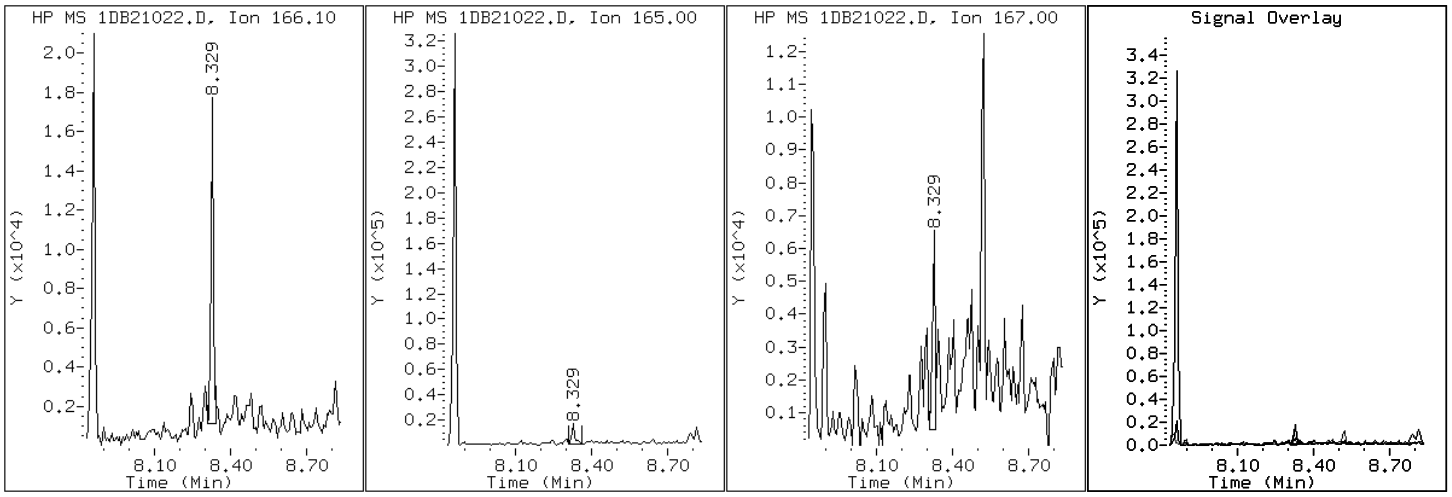
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

8 Fluorene



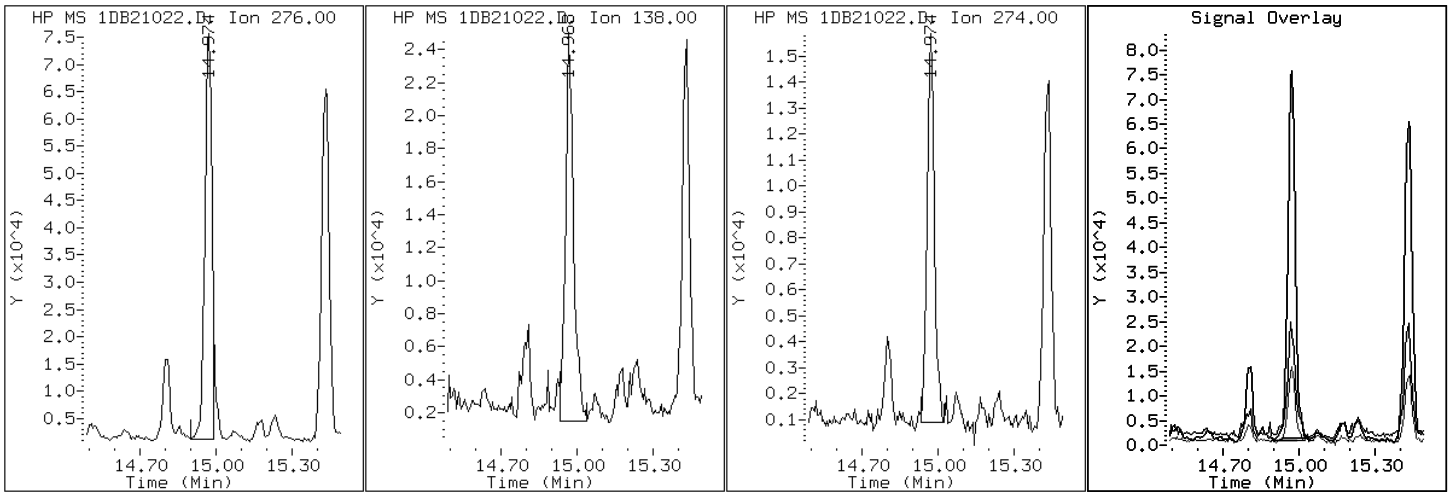
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

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



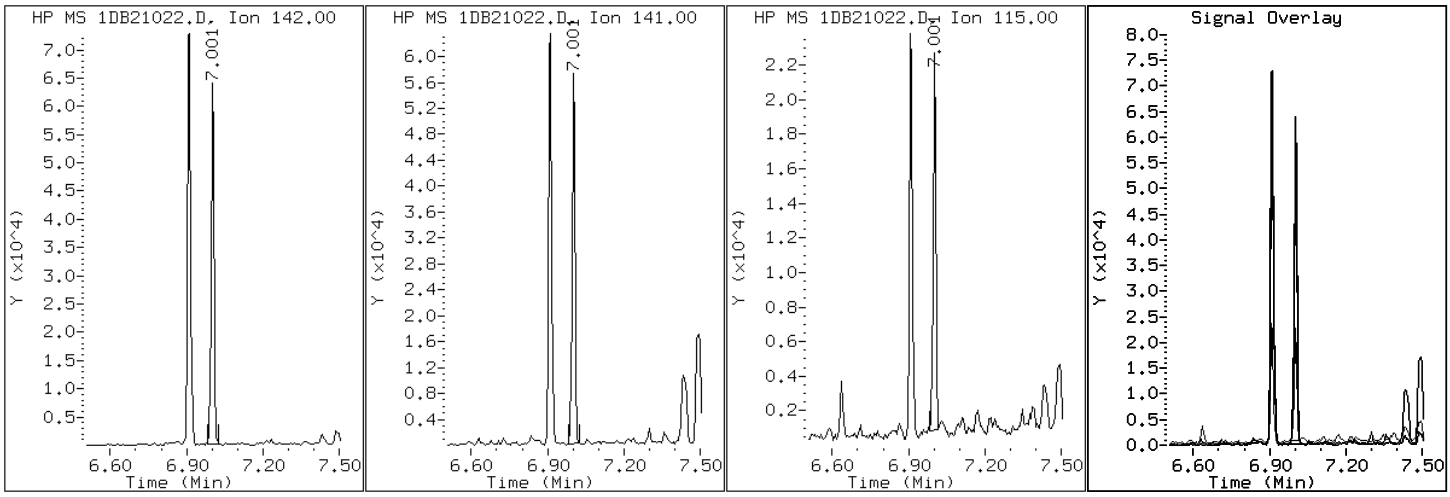
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

4 1-Methylnaphthalene



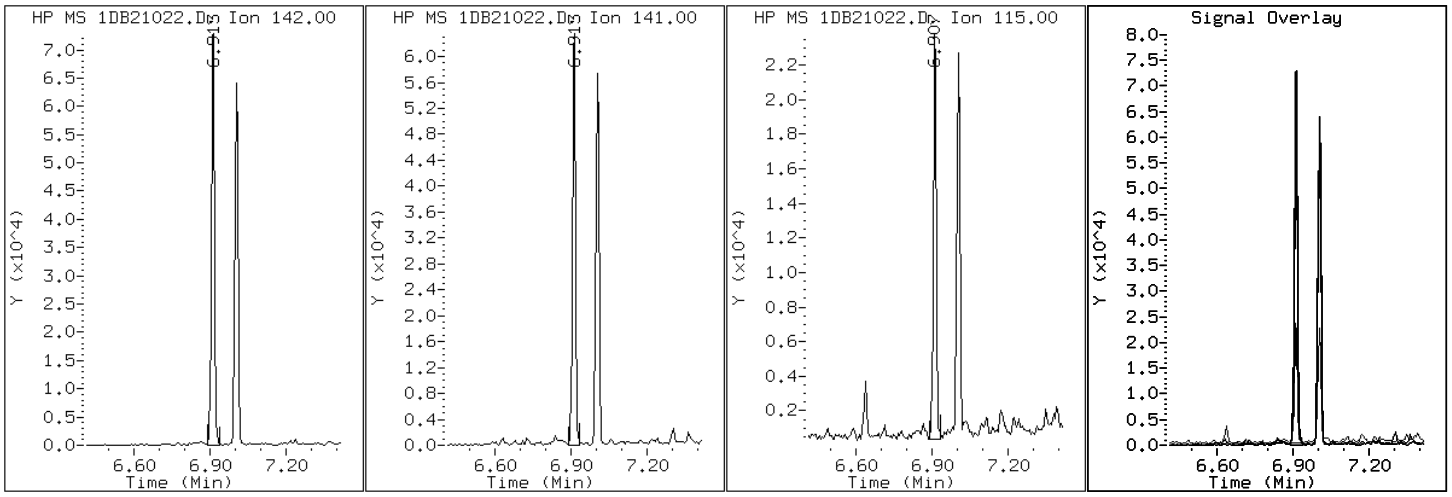
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

3 2-Methylnaphthalene



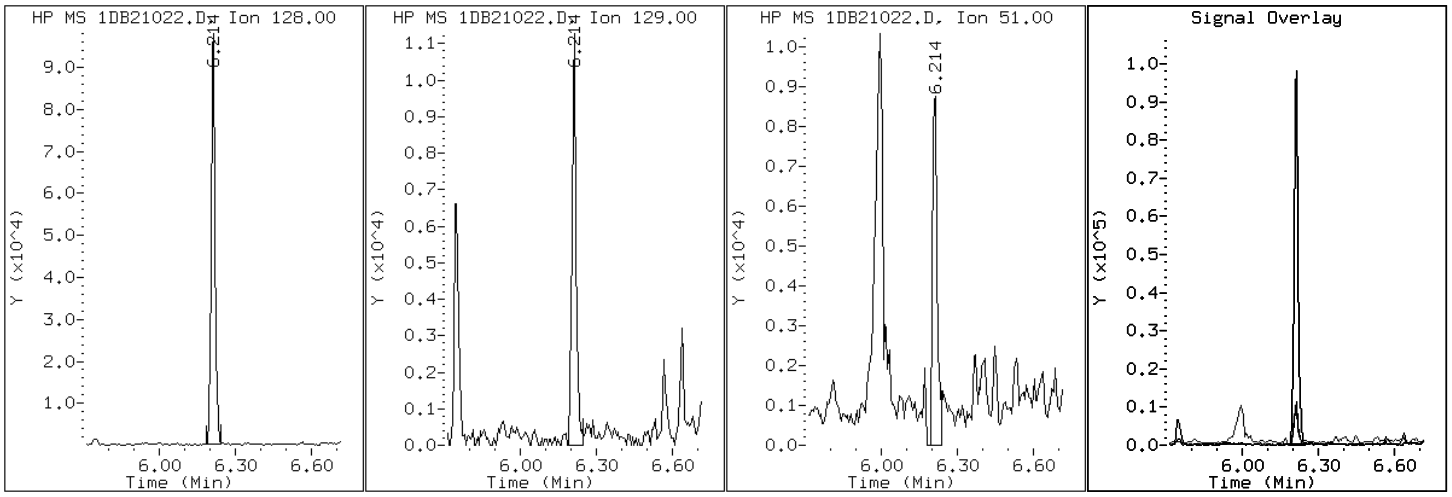
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

2 Naphthalene



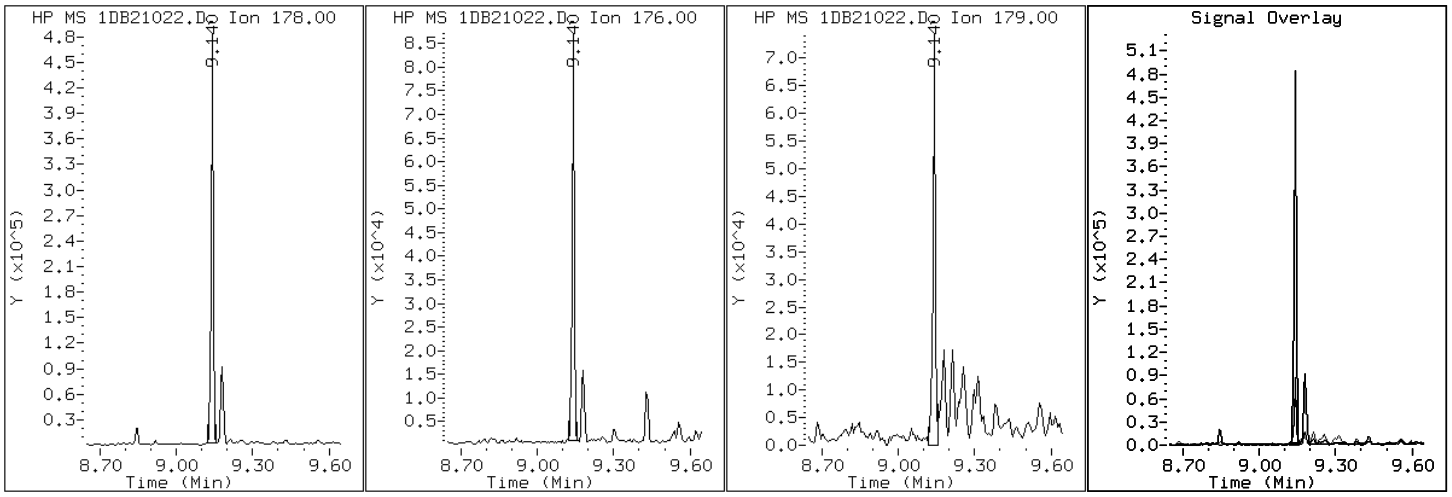
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

10 Phenanthrene



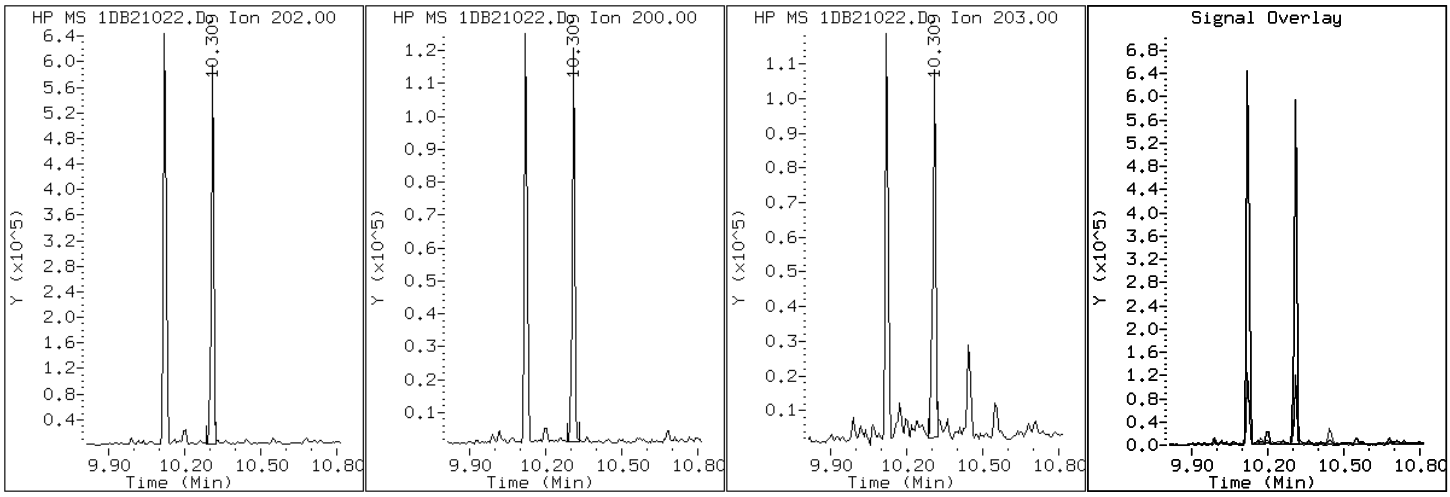
Data File: 1DB21022.D

Date: 21-FEB-2013 19:06

Client ID: CV0971OO-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-25-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB21022.D
Inj. Date and Time: 21-FEB-2013 19:06
Instrument ID: BSMSD.i
Client ID: CV0971OO-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/22/2013

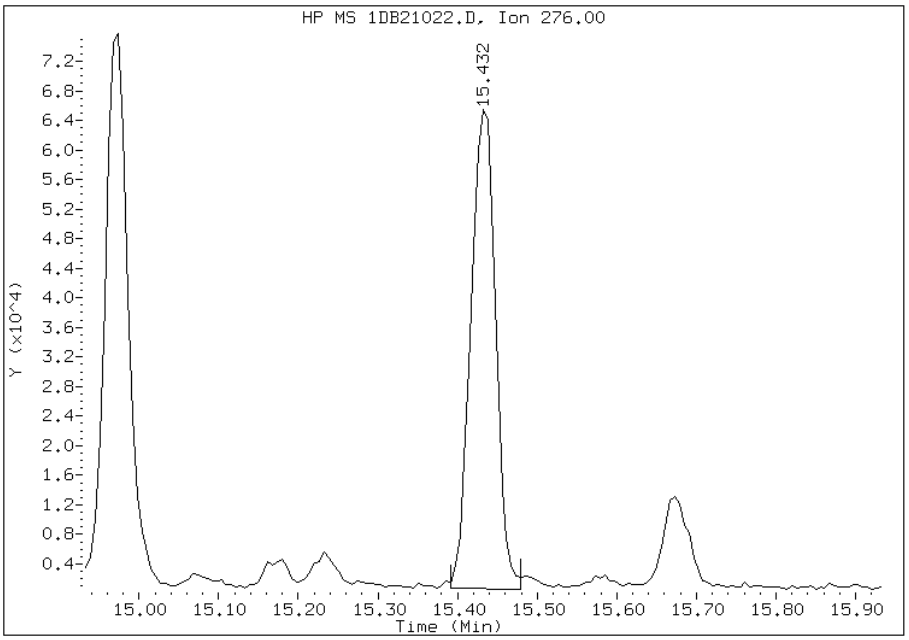
Processing Integration Results

RT: 15.43

Response: 139559

Amount: 2

Conc: 173



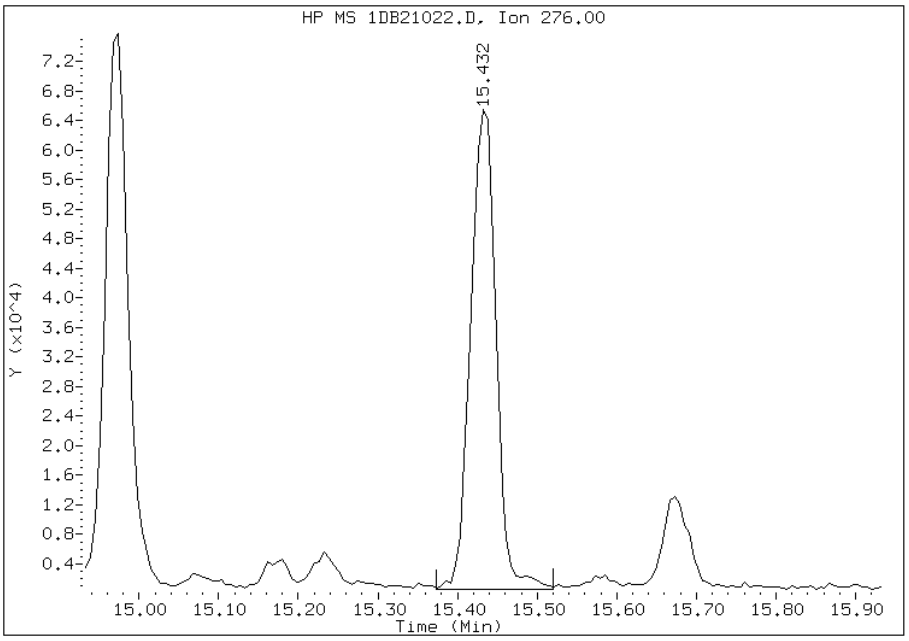
Manual Integration Results

RT: 15.43

Response: 142916

Amount: 2

Conc: 178



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB21022.D
Inj. Date and Time: 21-FEB-2013 19:06
Instrument ID: BSMSD.i
Client ID: CV0971OO-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

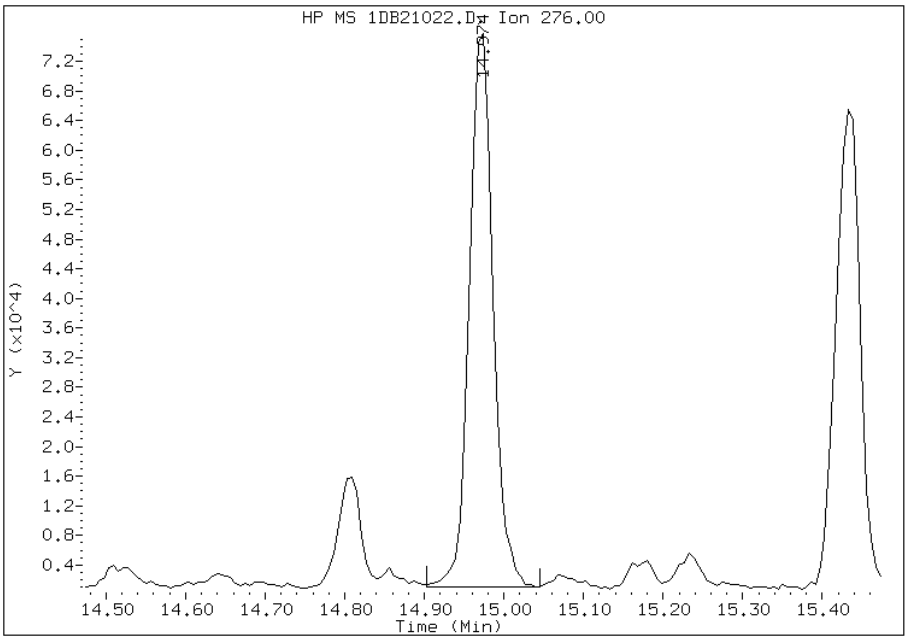
Processing Integration Results

RT: 14.97

Response: 154206

Amount: 2

Conc: 183



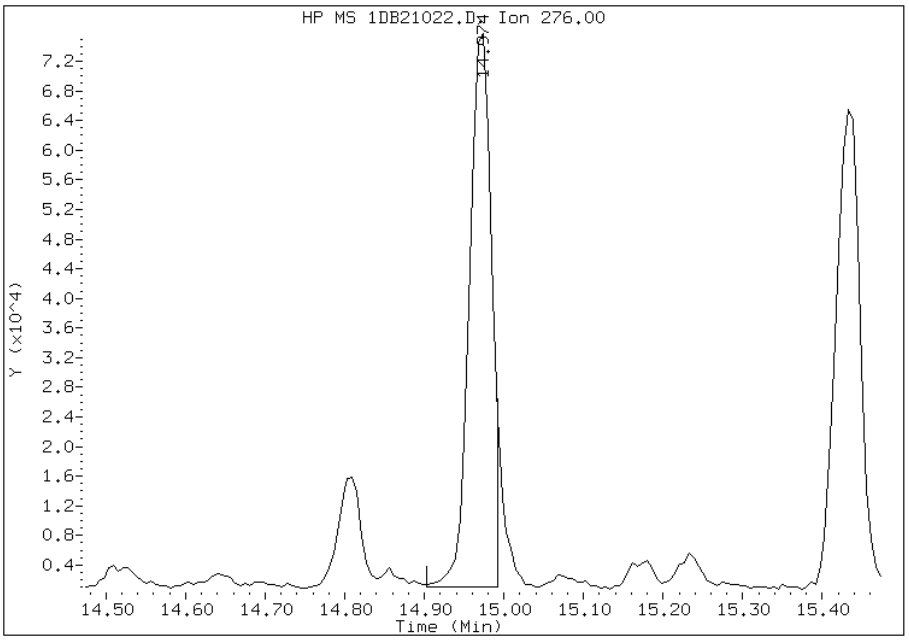
Manual Integration Results

RT: 14.97

Response: 144001

Amount: 2

Conc: 171



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971PP-CS | Lab Sample ID: 680-87496-26

Matrix: Solid | Lab File ID: 1CB21011.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:24

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.23(g) | Date Analyzed: 02/21/2013 14:14

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

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

% Moisture: 33.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	44	J	59	7.4
120-12-7	Anthracene	87		12	6.2
56-55-3	Benzo[a]anthracene	420		12	5.8
50-32-8	Benzo[a]pyrene	480		15	7.7
205-99-2	Benzo[b]fluoranthene	820		18	9.1
191-24-2	Benzo[g,h,i]perylene	360		30	6.5
207-08-9	Benzo[k]fluoranthene	240		12	5.3
218-01-9	Chrysene	520		13	6.7
53-70-3	Dibenz(a,h)anthracene	100		30	6.1
206-44-0	Fluoranthene	930		30	5.9
86-73-7	Fluorene	21	J	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	300		30	11
90-12-0	1-Methylnaphthalene	91		59	6.5
91-57-6	2-Methylnaphthalene	110		59	11
91-20-3	Naphthalene	110		59	6.5
85-01-8	Phenanthrene	520		12	5.8
129-00-0	Pyrene	840		30	5.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21011.D
Lab Smp Id: 680-87496-A-26-A Client Smp ID: CV0971PP-CS
Inj Date : 21-FEB-2013 14:14
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-26-a
Misc Info : 680-87496-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	15.230	Weight Extracted
M	33.677	% 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	3.810	3.810	(1.000)	1788691	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1357233	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2397796	40.0000	
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	263446	7.49849	742.3519
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2600839	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2544238	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	51507	1.08669	107.5826
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	34171	1.10875	109.7667
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	25833	0.92163	91.2413
5 Acenaphthylene	152	4.815	4.815	(0.983)	24157	0.44738	44.2908
9 Fluorene	166	5.239	5.239	(1.070)	9241	0.21257	21.0448(Q)
11 Phenanthrene	178	5.868	5.874	(1.002)	374392	5.23094	517.8639
12 Anthracene	178	5.904	5.904	(1.008)	56893	0.88227	87.3450
13 Carbazole	167	6.009	6.015	(1.026)	47345	0.84525	83.6803

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	655853	9.37785	928.4089
16 Pyrene	202	6.880	6.886	(0.881)	585228	8.45208	836.7574
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	303584	4.23280	419.0481
19 Chrysene	228	7.827	7.833	(1.002)	391150	5.27977	522.6974
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	517397	8.29475	821.1817
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	167598	2.43892	241.4533(MH)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	288472	4.86014	481.1546
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	170042	2.98273	295.2905(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	56165	1.04473	103.4282
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	212115	3.66286	362.6237

QC Flag Legend

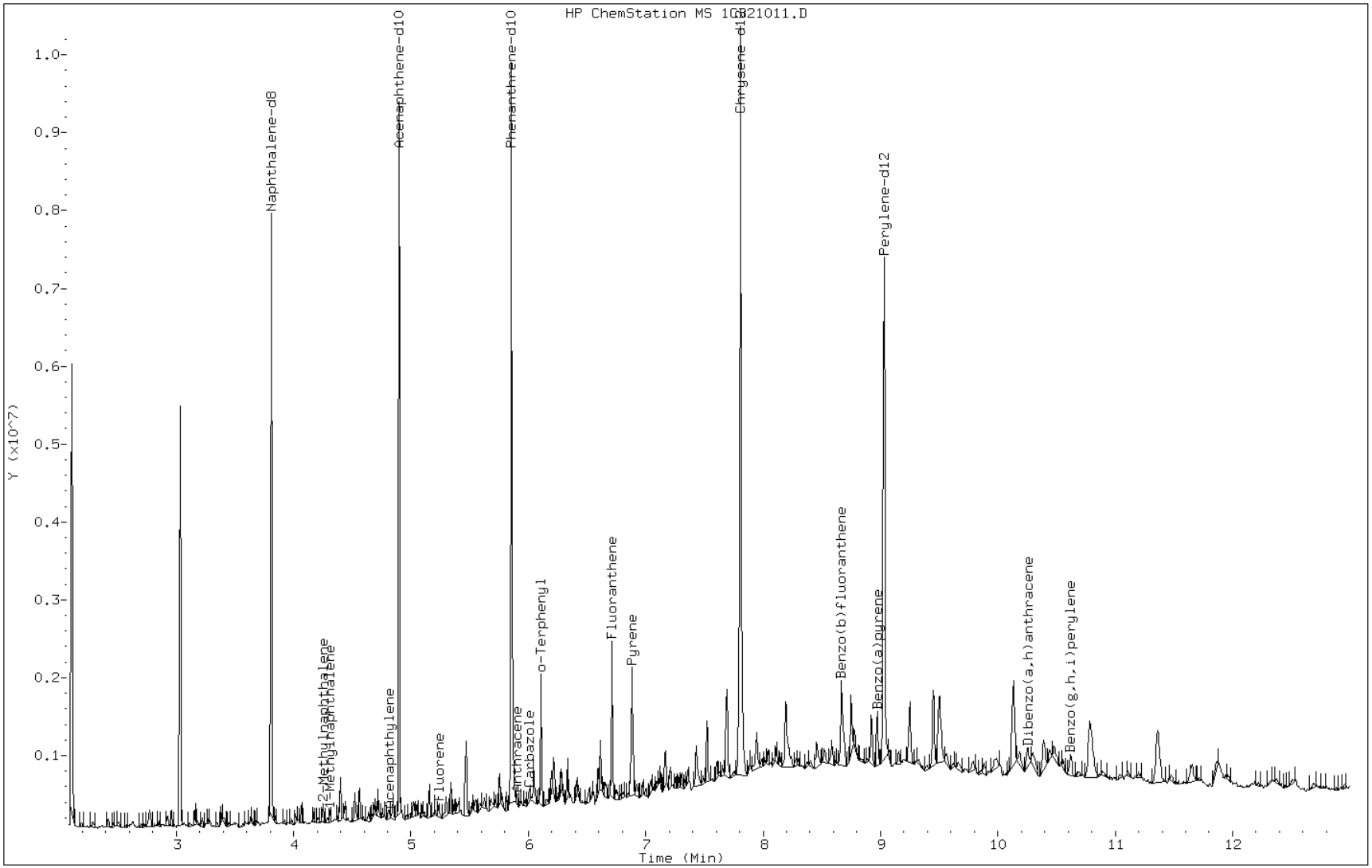
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC



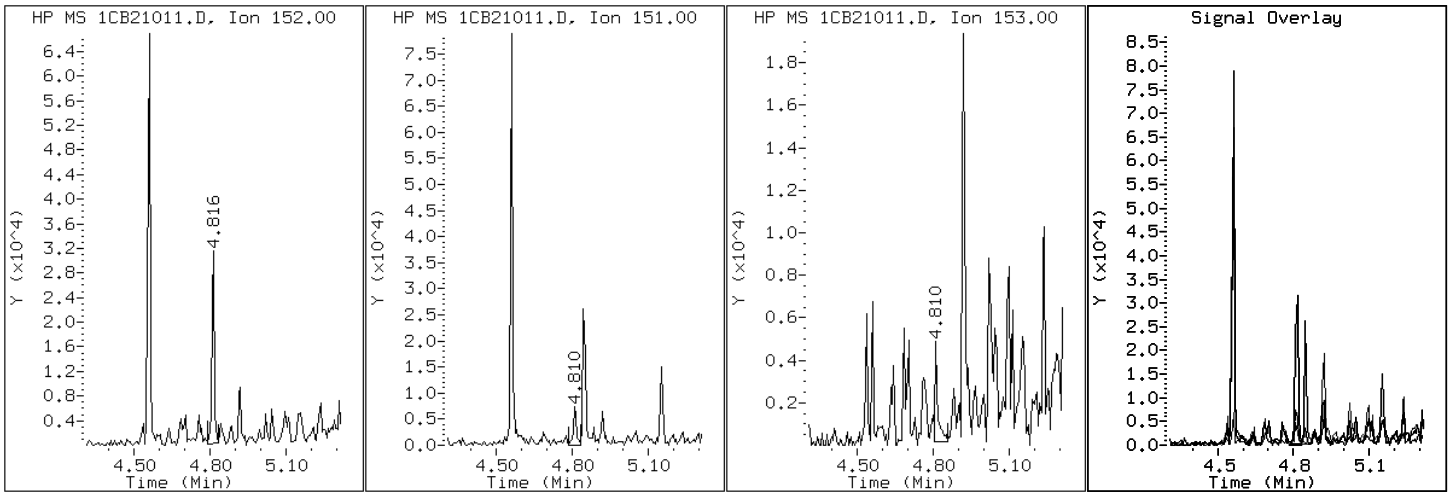
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

5 Acenaphthylene



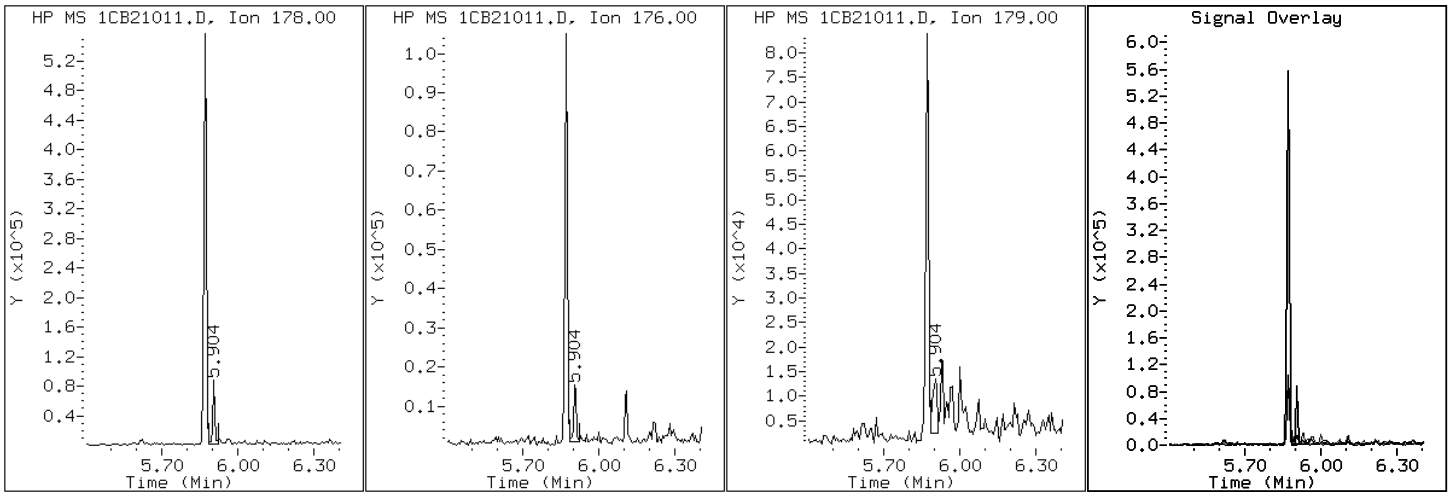
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

12 Anthracene



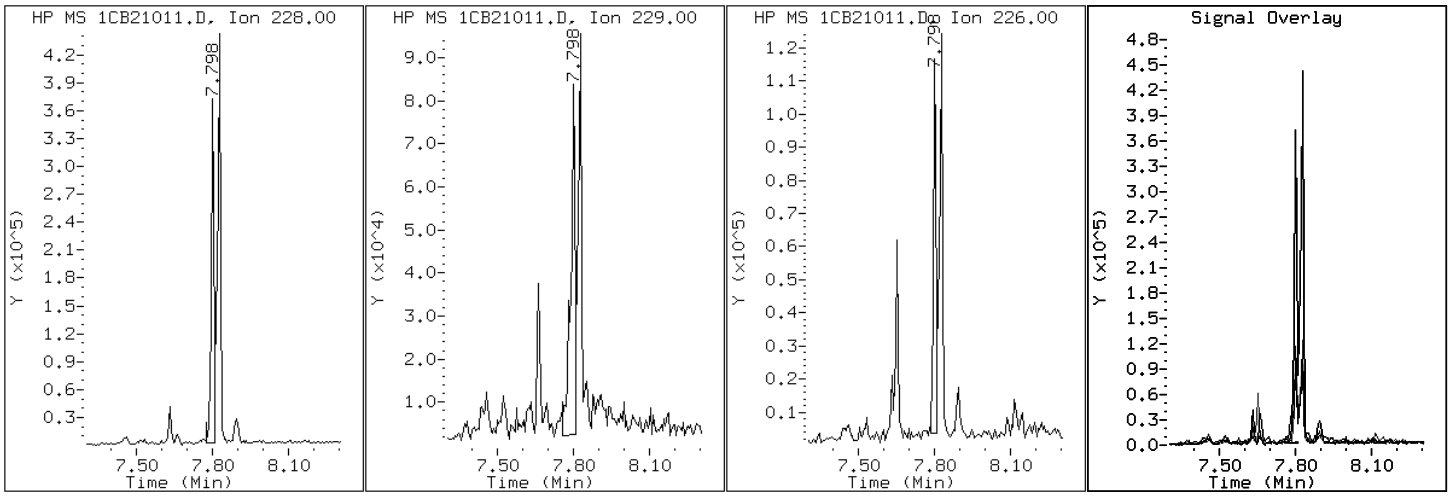
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

17 Benzo(a)anthracene



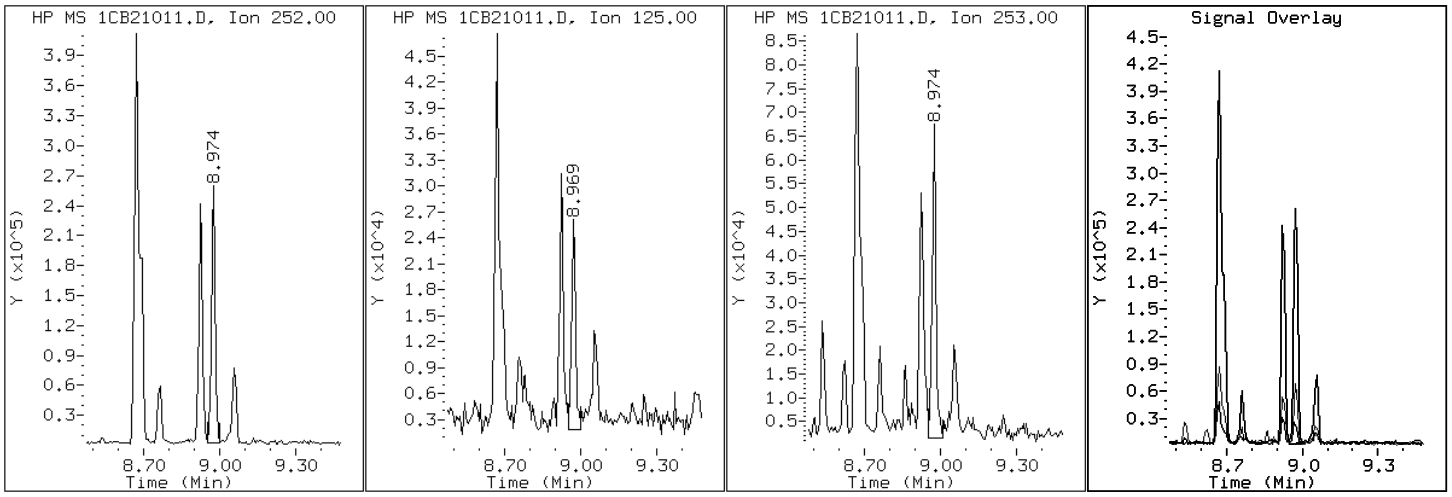
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

22 Benzo(a)pyrene



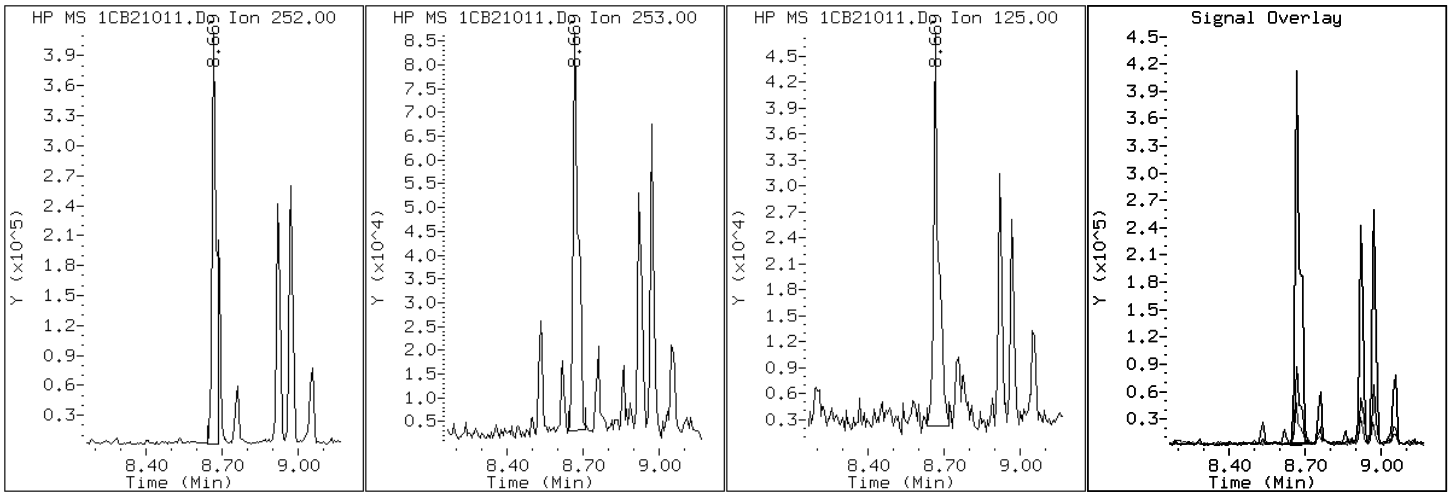
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

20 Benzo(b)fluoranthene



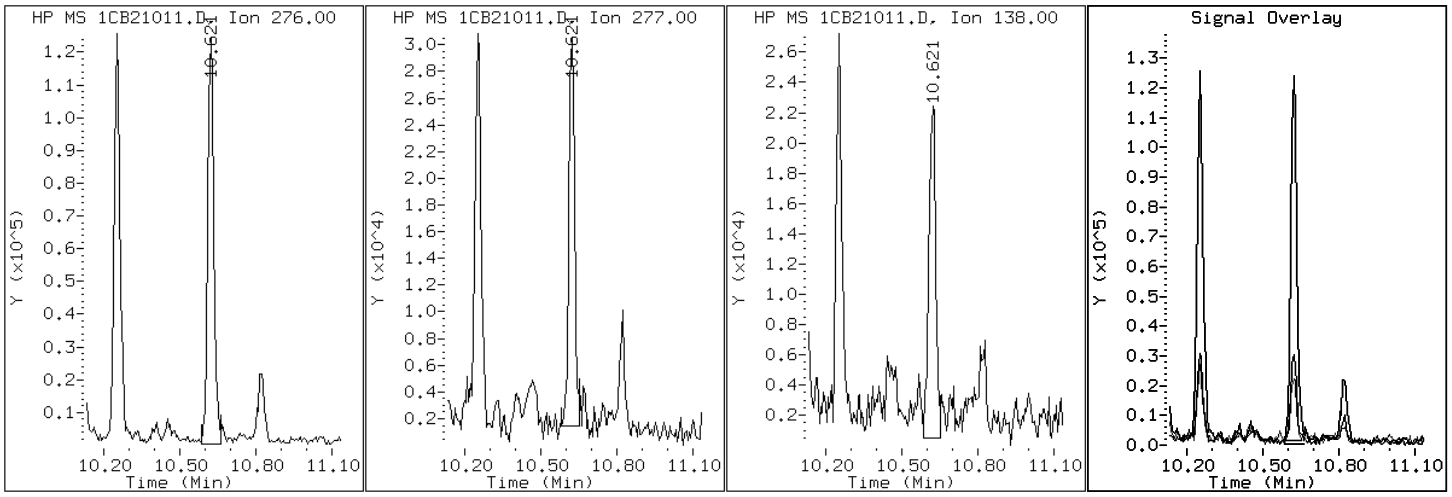
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

26 Benzo(g,h,i)perylene



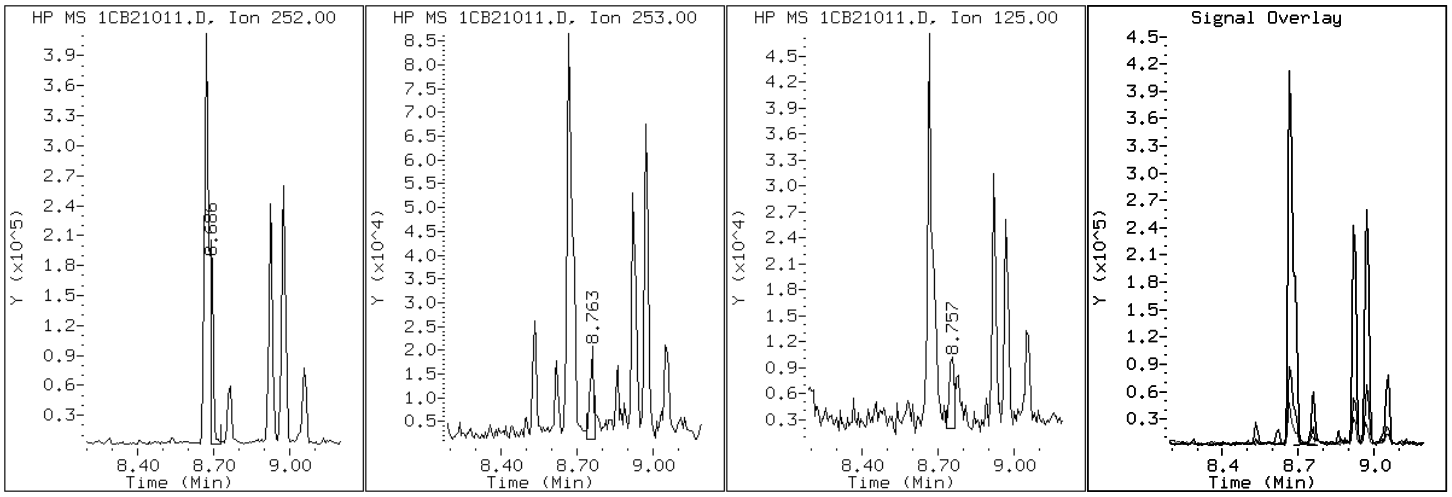
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

21 Benzo(k)fluoranthene



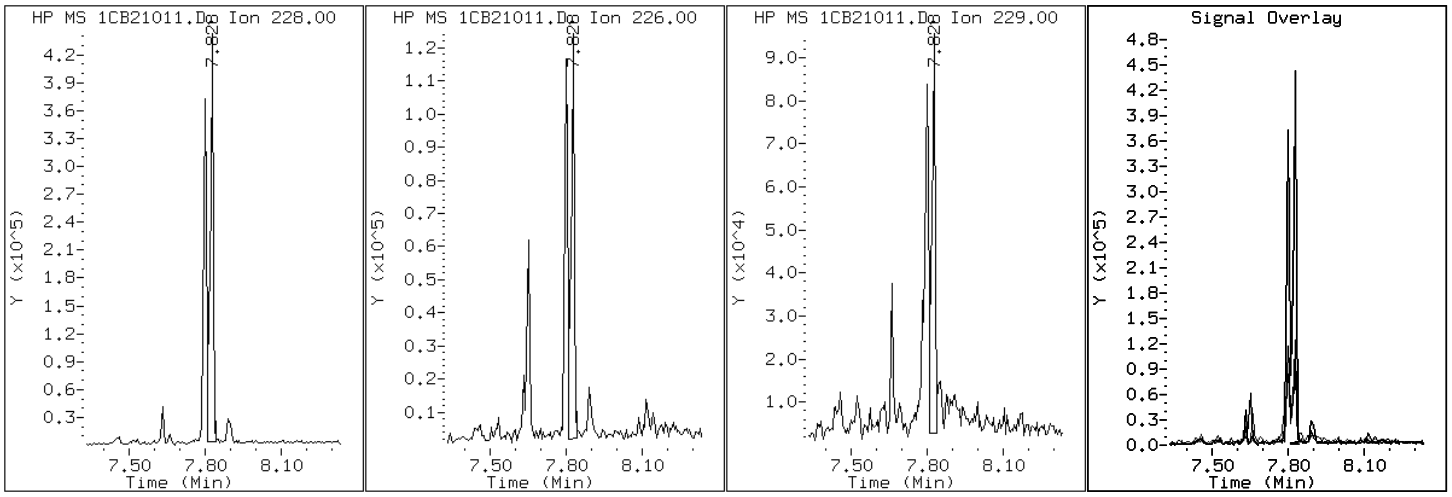
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

19 Chrysene



Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

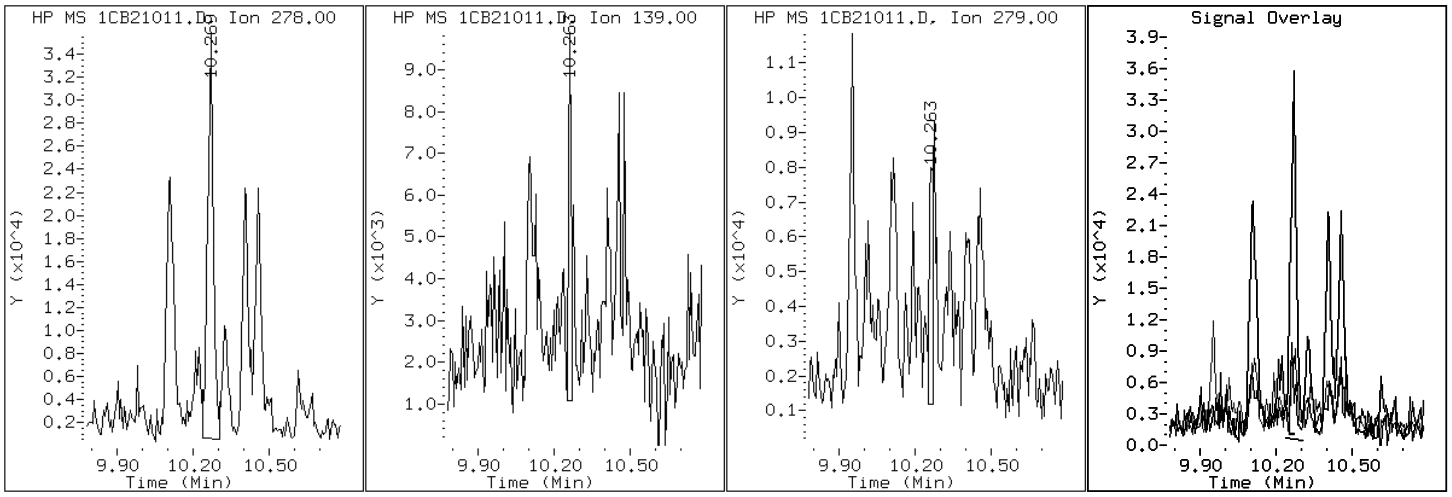
Client ID: CV0971PP-CS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a

Operator: SCC

25 Dibenzo(a,h)anthracene



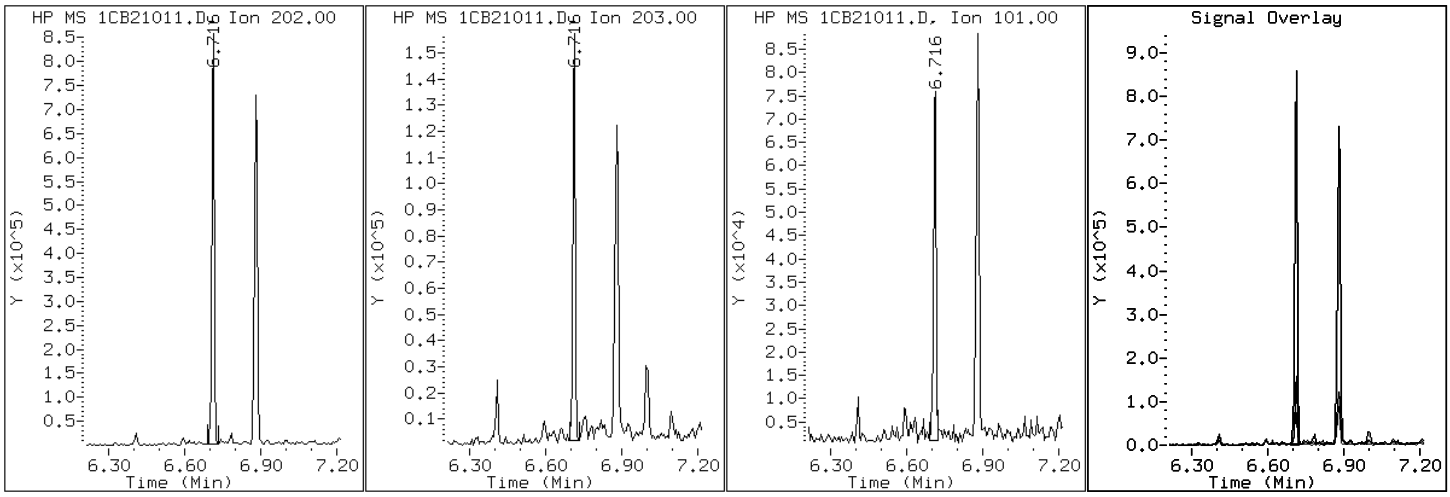
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

15 Fluoranthene



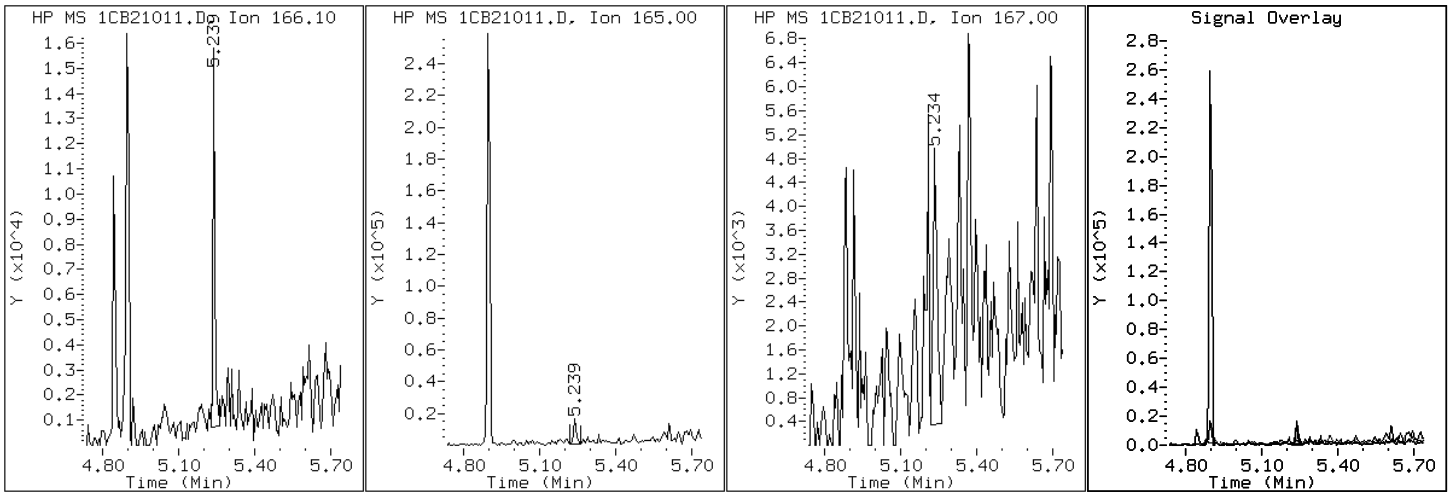
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

9 Fluorene



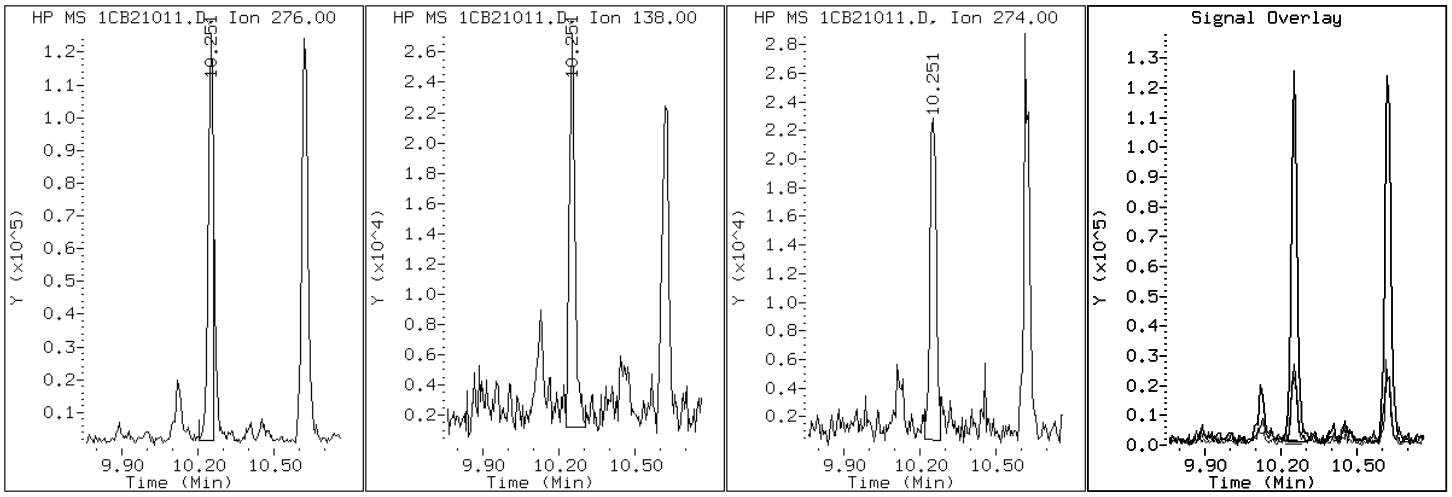
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

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



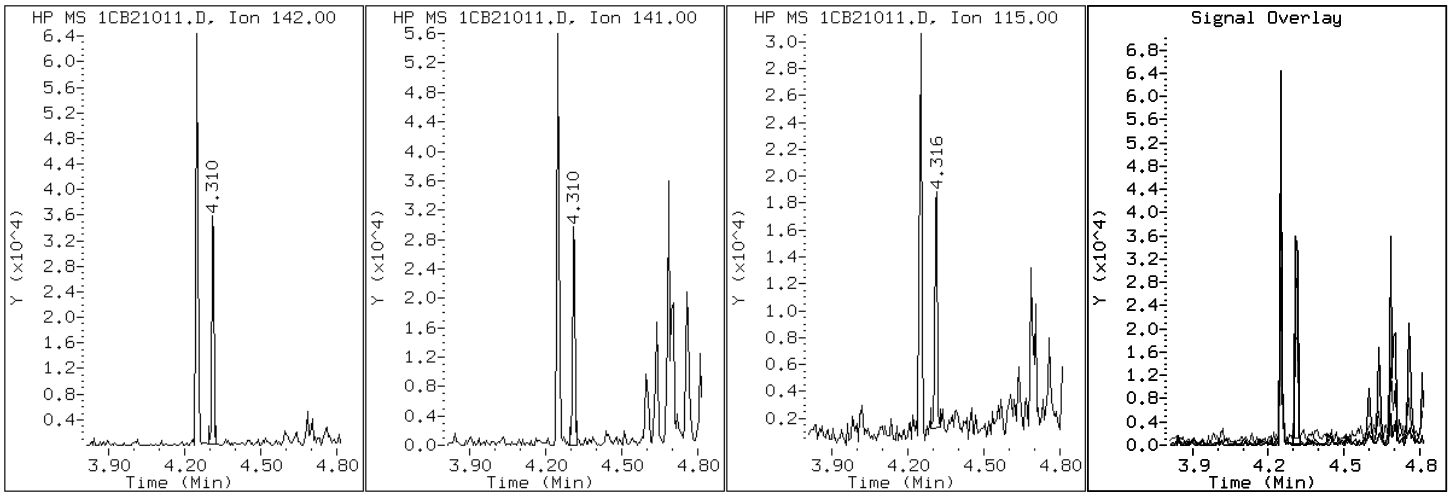
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

4 1-Methylnaphthalene



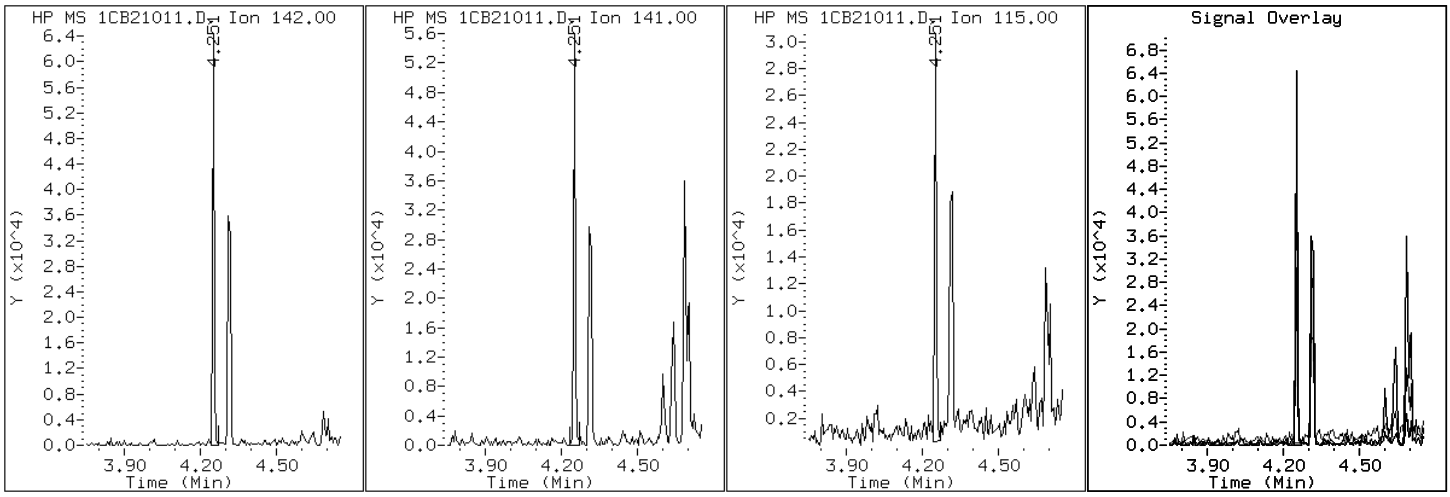
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

3 2-Methylnaphthalene



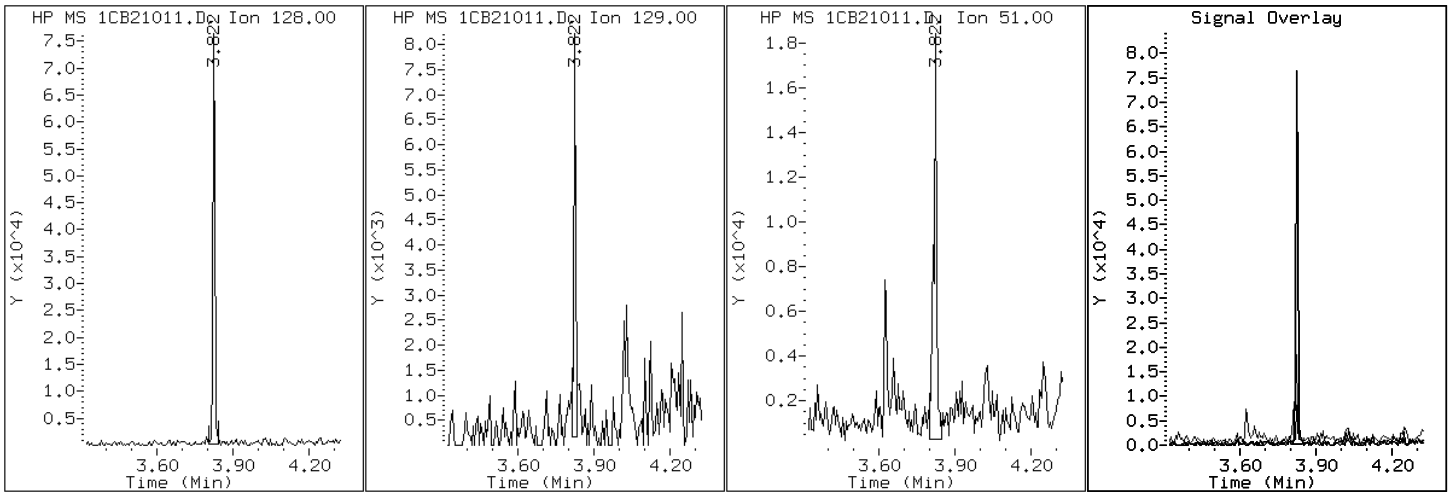
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

2 Naphthalene



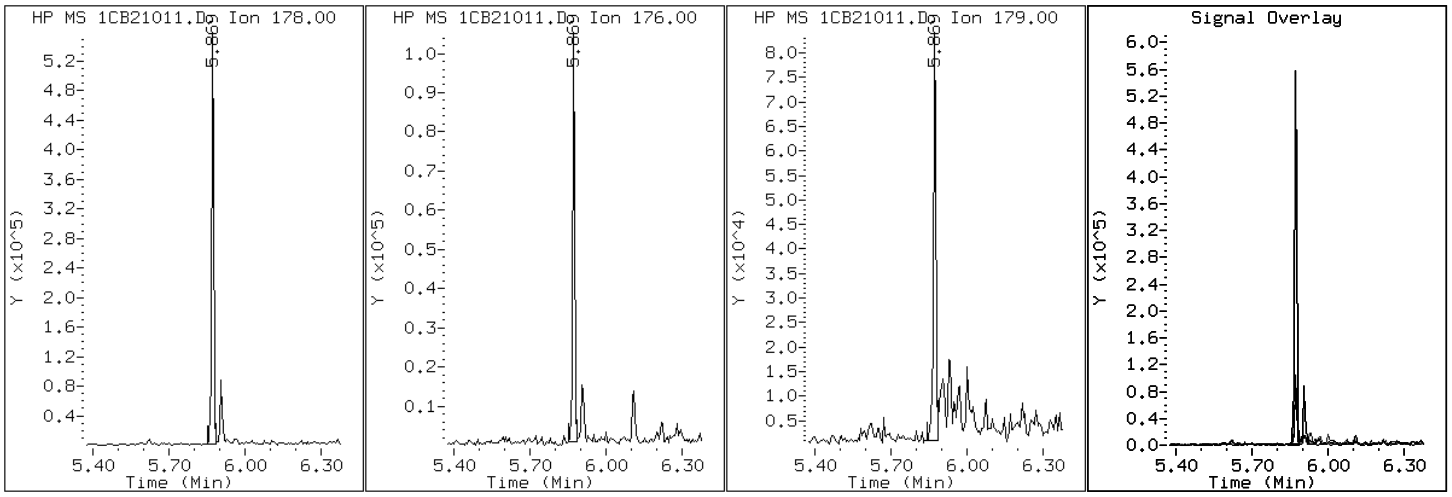
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

11 Phenanthrene



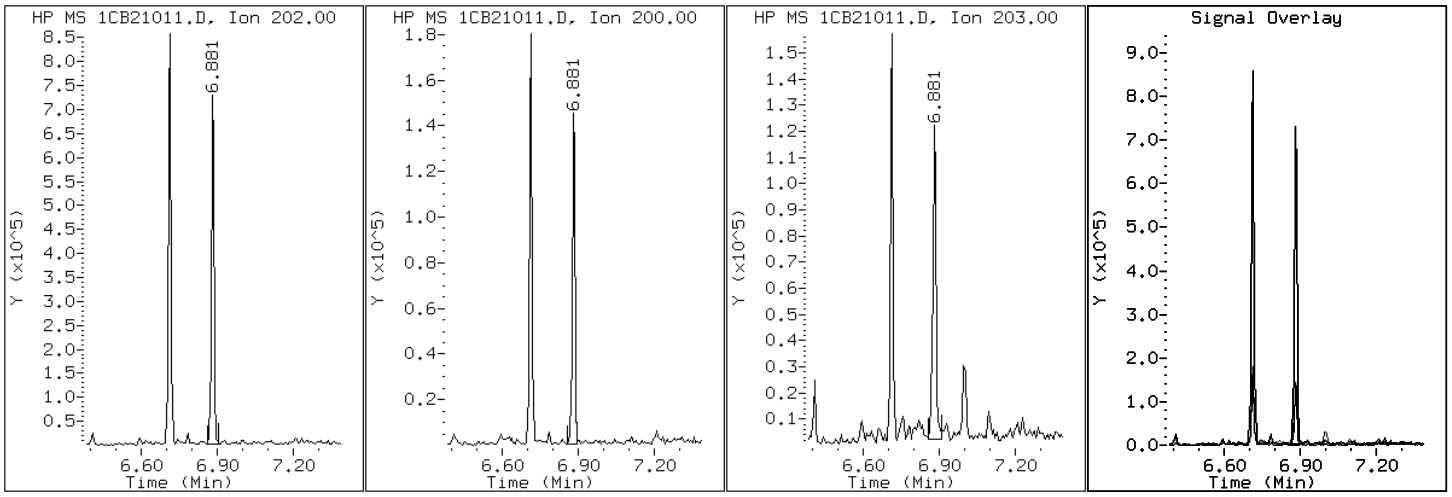
Data File: 1CB21011.D

Date: 21-FEB-2013 14:14

Client ID: CV0971PP-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-26-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21011.D
Inj. Date and Time: 21-FEB-2013 14:14
Instrument ID: BSMC5973.i
Client ID: CV0971PP-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

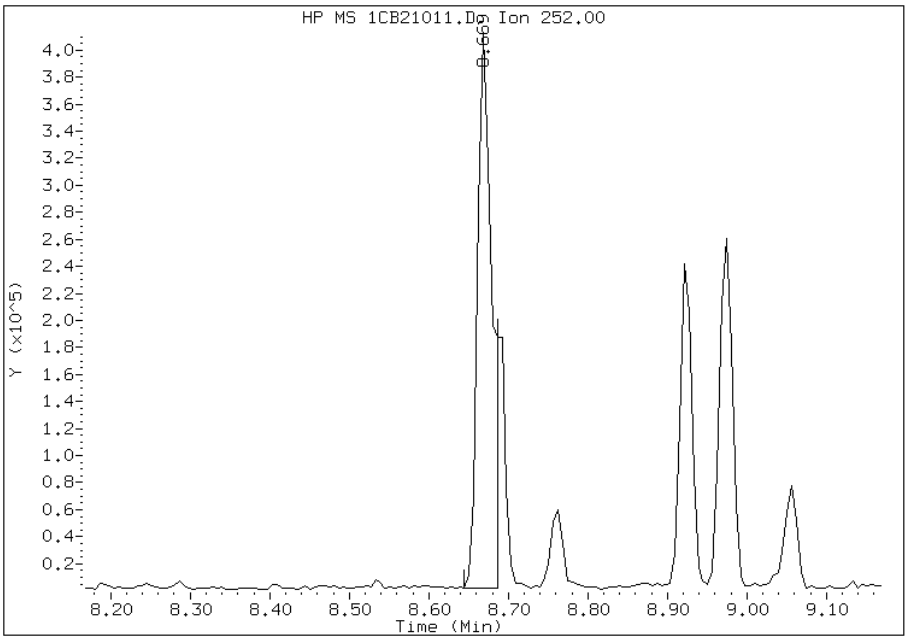
Processing Integration Results

RT: 8.67

Response: 517397

Amount: 8

Conc: 745



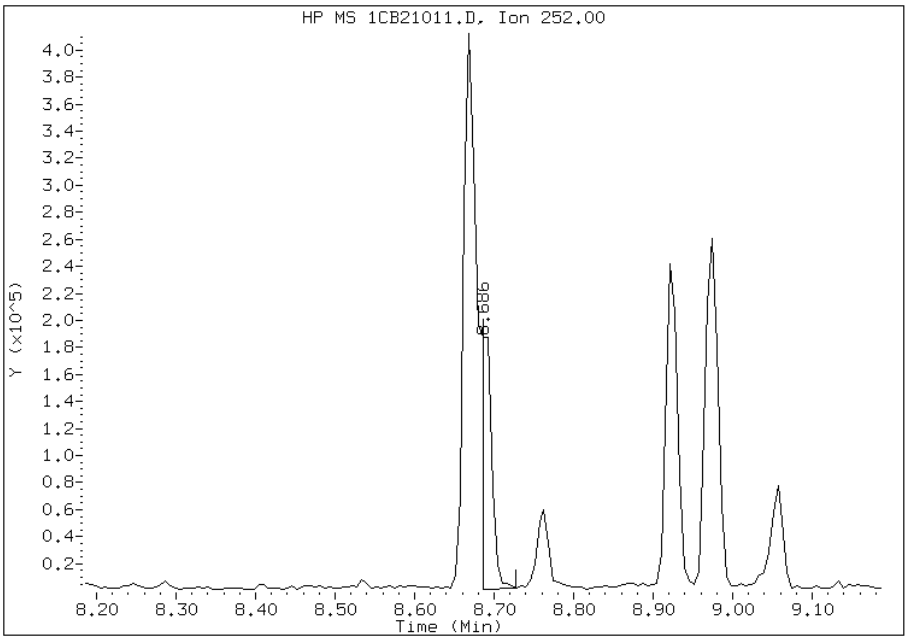
Manual Integration Results

RT: 8.69

Response: 167598

Amount: 2

Conc: 241



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:20
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CB21011.D
Inj. Date and Time: 21-FEB-2013 14:14
Instrument ID: BSMC5973.i
Client ID: CV0971PP-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

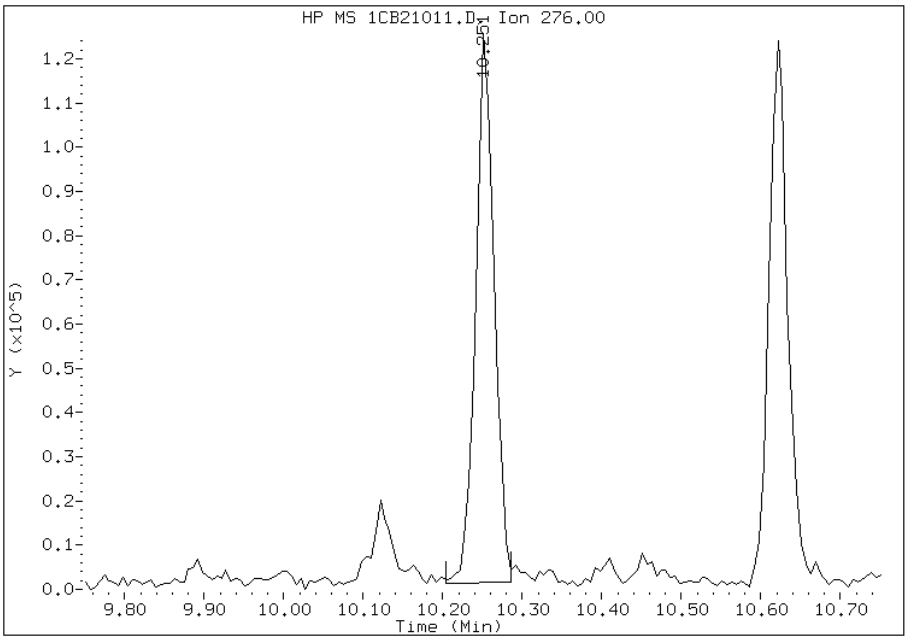
Processing Integration Results

RT: 10.25

Response: 198774

Amount: 3

Conc: 345



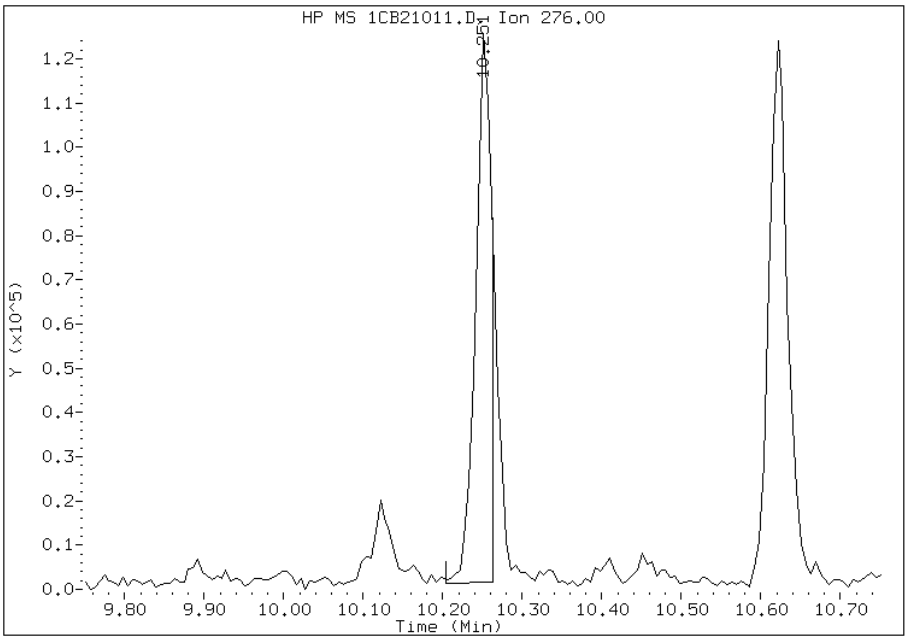
Manual Integration Results

RT: 10.25

Response: 170042

Amount: 3

Conc: 295



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971PP-CSD | Lab Sample ID: 680-87496-27

Matrix: Solid | Lab File ID: 1CB21012.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:26

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.05(g) | Date Analyzed: 02/21/2013 14:32

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

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

% Moisture: 32.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	35	J	59	7.4
120-12-7	Anthracene	57		12	6.2
56-55-3	Benzo[a]anthracene	320		12	5.8
50-32-8	Benzo[a]pyrene	330		15	7.7
205-99-2	Benzo[b]fluoranthene	590		18	9.0
191-24-2	Benzo[g,h,i]perylene	260		30	6.5
207-08-9	Benzo[k]fluoranthene	150		12	5.3
218-01-9	Chrysene	380		13	6.6
53-70-3	Dibenz(a,h)anthracene	79		30	6.1
206-44-0	Fluoranthene	680		30	5.9
86-73-7	Fluorene	24	J	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	220		30	10
90-12-0	1-Methylnaphthalene	76		59	6.5
91-57-6	2-Methylnaphthalene	110		59	10
91-20-3	Naphthalene	110		59	6.5
85-01-8	Phenanthrene	310		12	5.8
129-00-0	Pyrene	600		30	5.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21012.D
Lab Smp Id: 680-87496-A-27-A Client Smp ID: CV0971PP-CSD
Inj Date : 21-FEB-2013 14:32
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-27-a
Misc Info : 680-87496-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	15.050	Weight Extracted
M	32.544	% 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	3.810	3.810	(1.000)	1771791	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1338359	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2405817	40.0000	
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	259777	7.36941	725.9022
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2588064	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2508038	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	50105	1.06720	105.1209
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	32648	1.06944	105.3420
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	21374	0.76982	75.8289
5 Acenaphthylene	152	4.815	4.815	(0.983)	19179	0.36020	35.4803
9 Fluorene	166	5.239	5.239	(1.070)	10349	0.24142	23.7802
11 Phenanthrene	178	5.868	5.874	(1.002)	229403	3.19449	314.6642
12 Anthracene	178	5.904	5.904	(1.008)	37602	0.58117	57.2465
13 Carbazole	167	6.010	6.015	(1.026)	30030	0.53434	52.6336

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	481069	6.85573	675.3040
16 Pyrene	202	6.880	6.886	(0.881)	418441	6.07311	598.2142
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	233196	3.26745	321.8504
19 Chrysene	228	7.827	7.833	(1.002)	284426	3.85815	380.0356
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	371121	6.03558	594.5167(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	103157	1.52283	150.0017(QM)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	198168	3.38690	333.6166
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	126602	2.25279	221.9049(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	42574	0.80335	79.1317
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	150592	2.63800	259.8483

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB21012.D

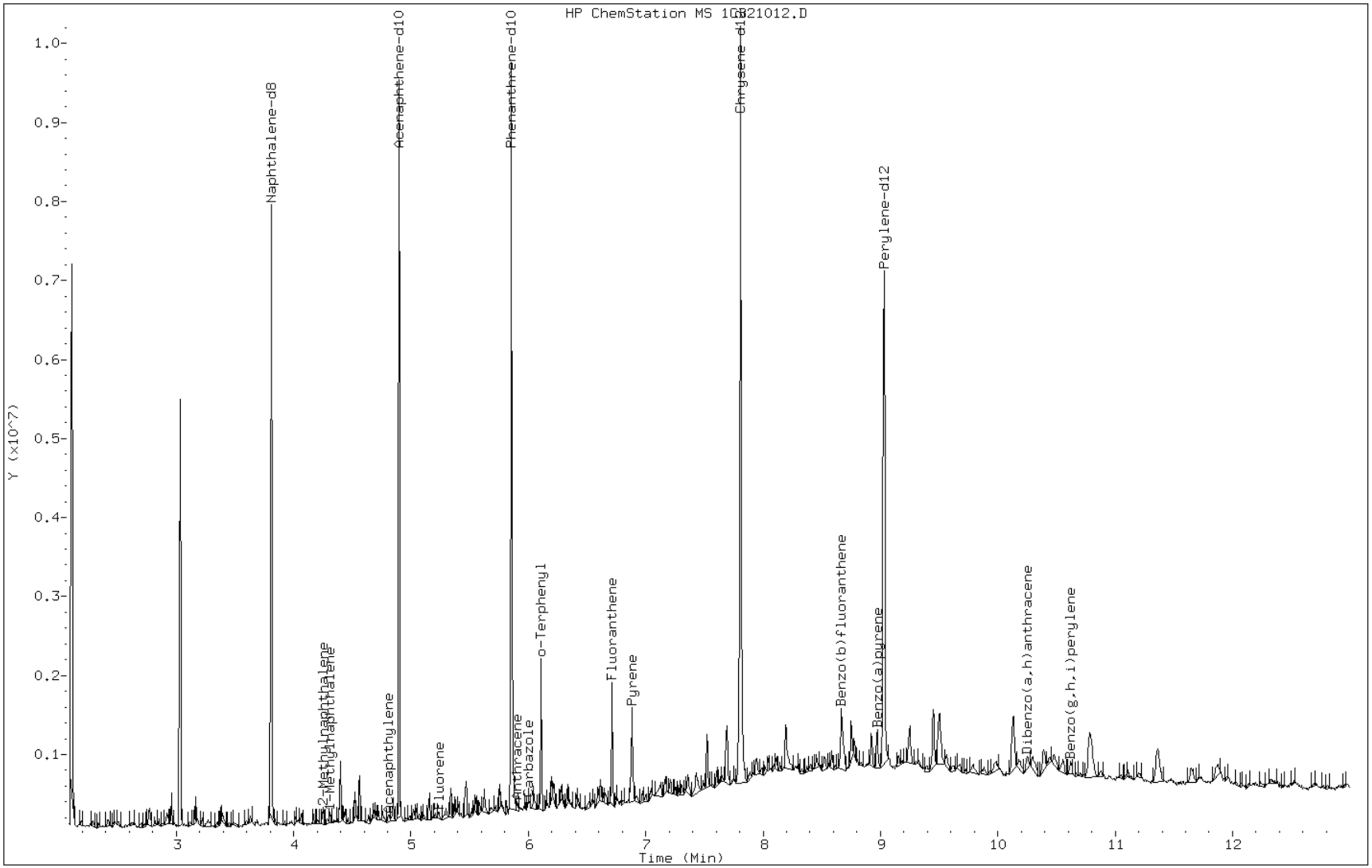
Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD

Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a

Operator: SCC



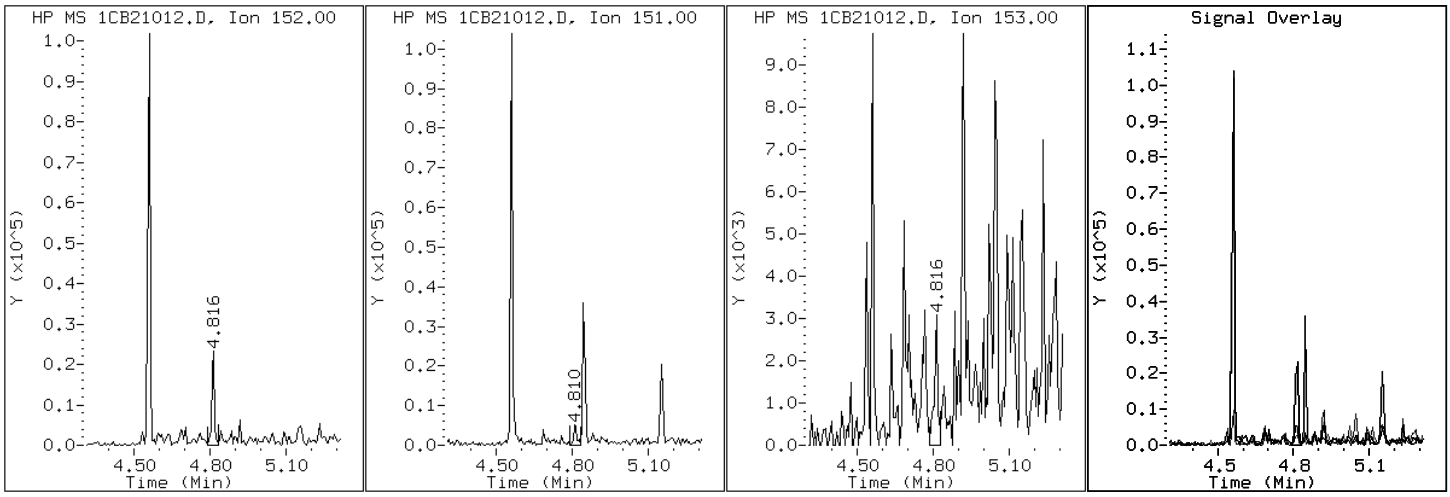
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

5 Acenaphthylene



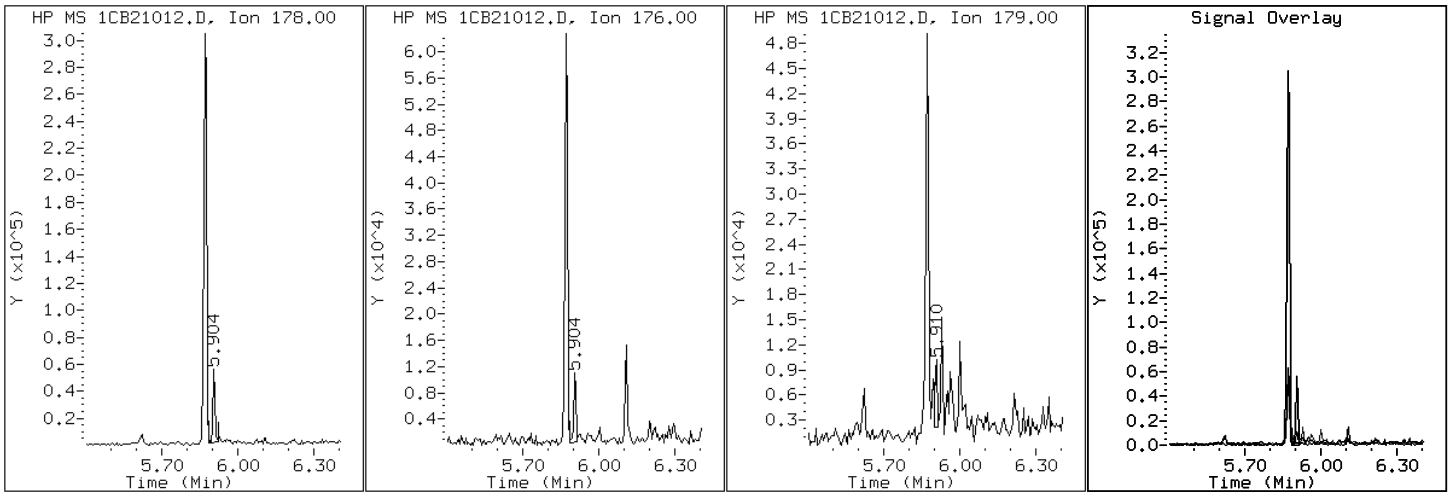
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

12 Anthracene



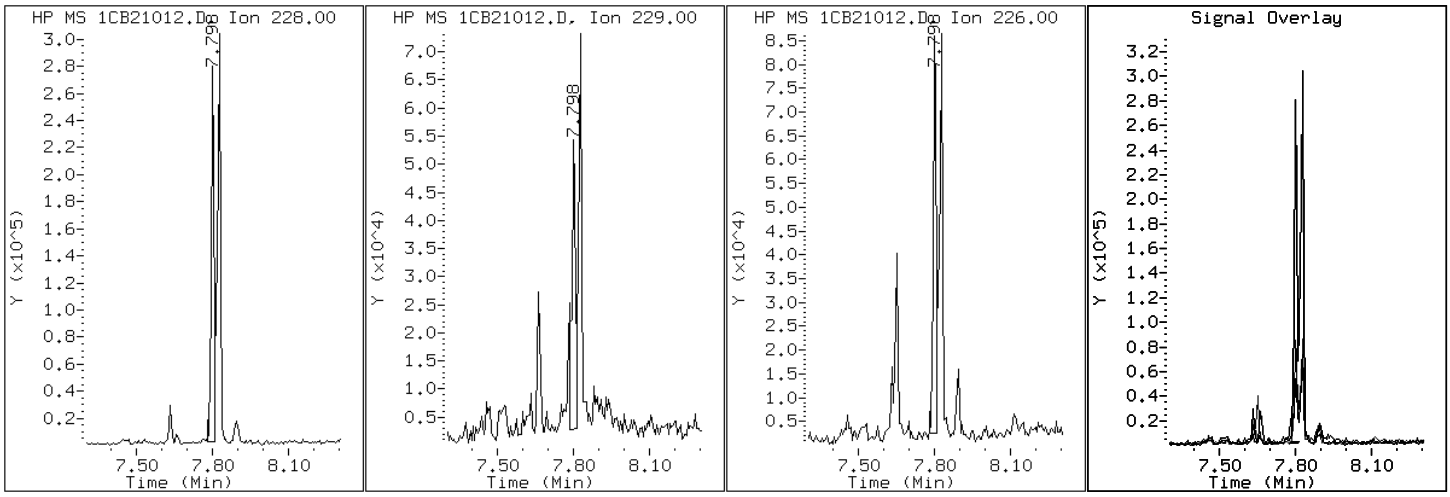
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

17 Benzo(a)anthracene



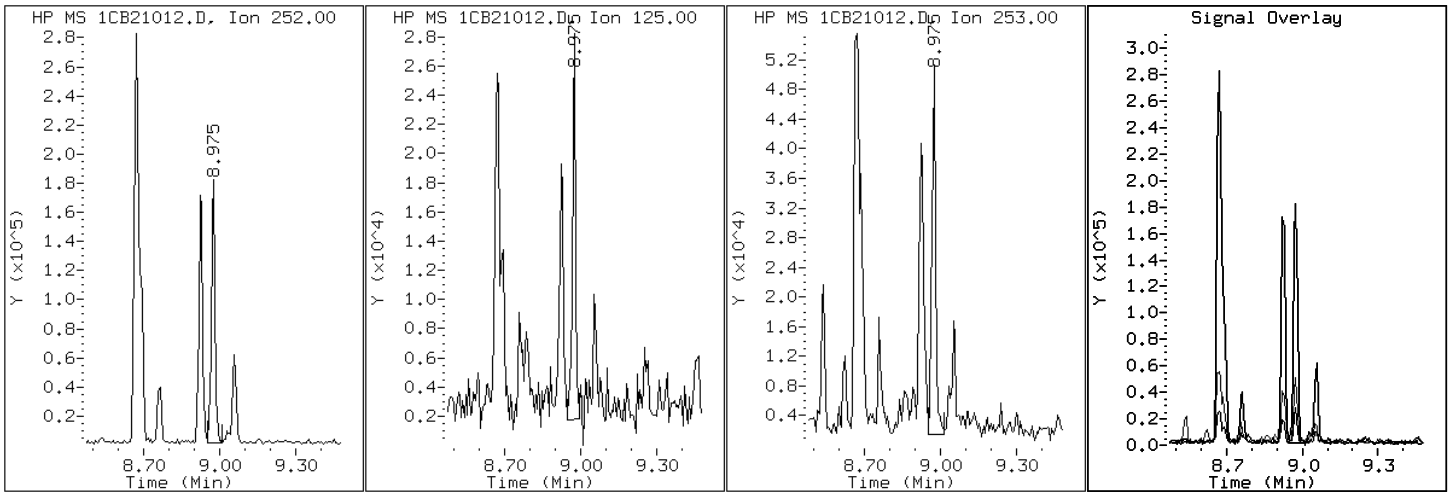
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

22 Benzo(a)pyrene



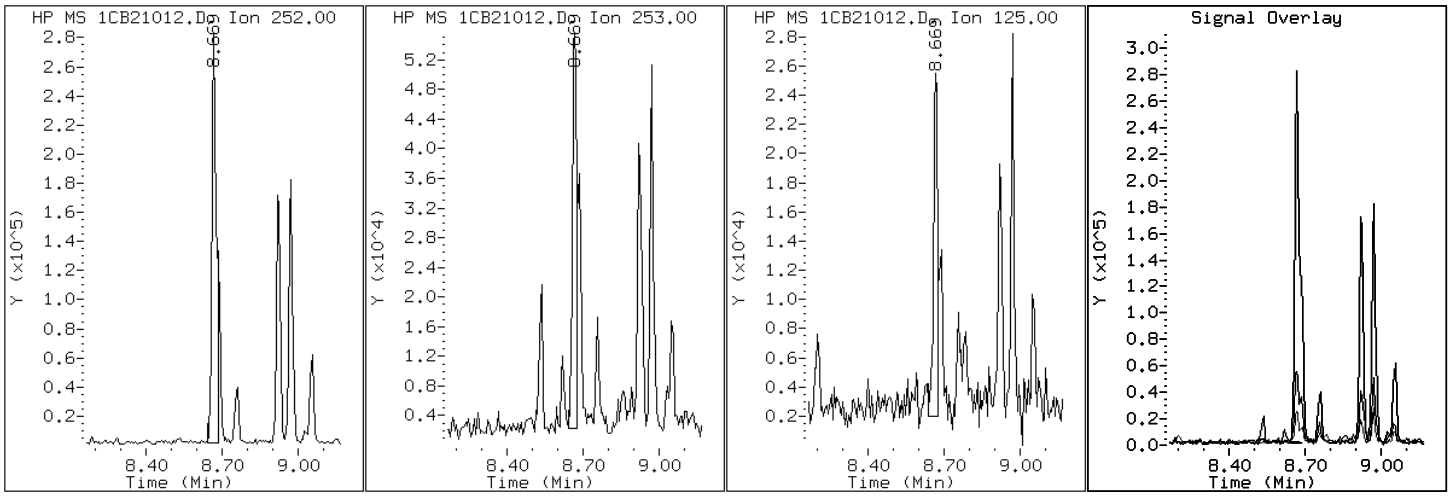
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

20 Benzo(b)fluoranthene



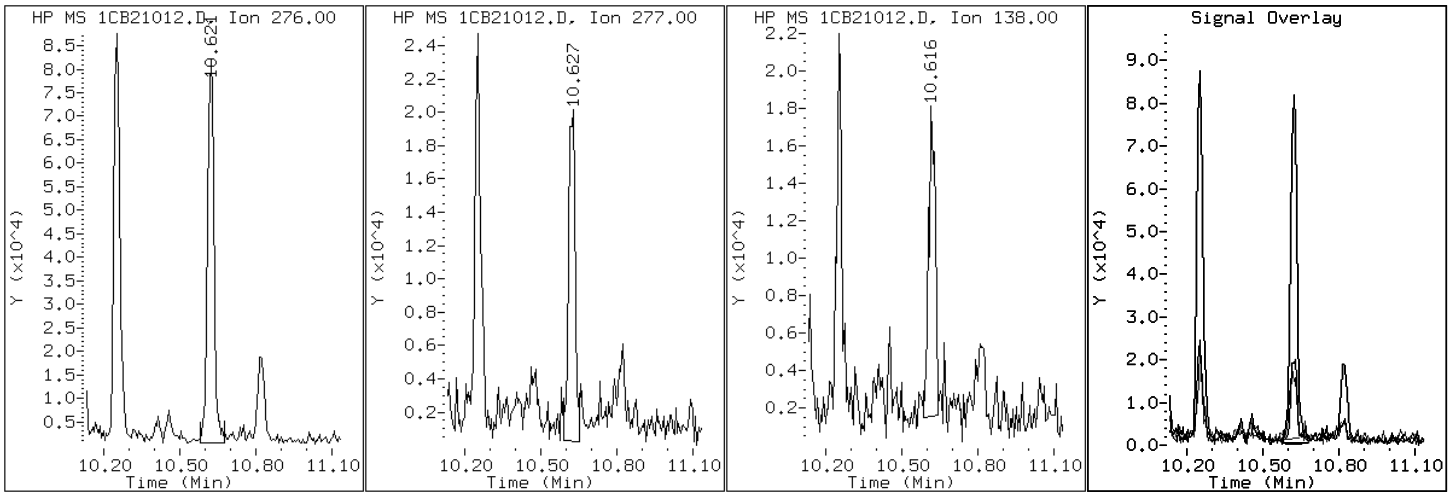
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

26 Benzo(g,h,i)perylene



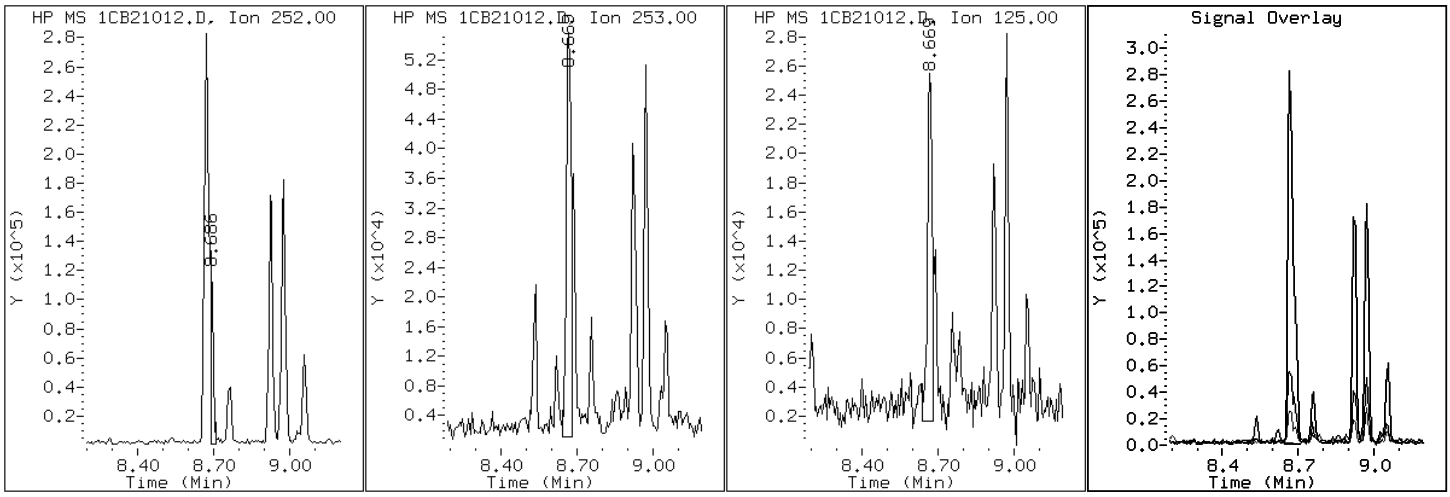
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

21 Benzo(k)fluoranthene



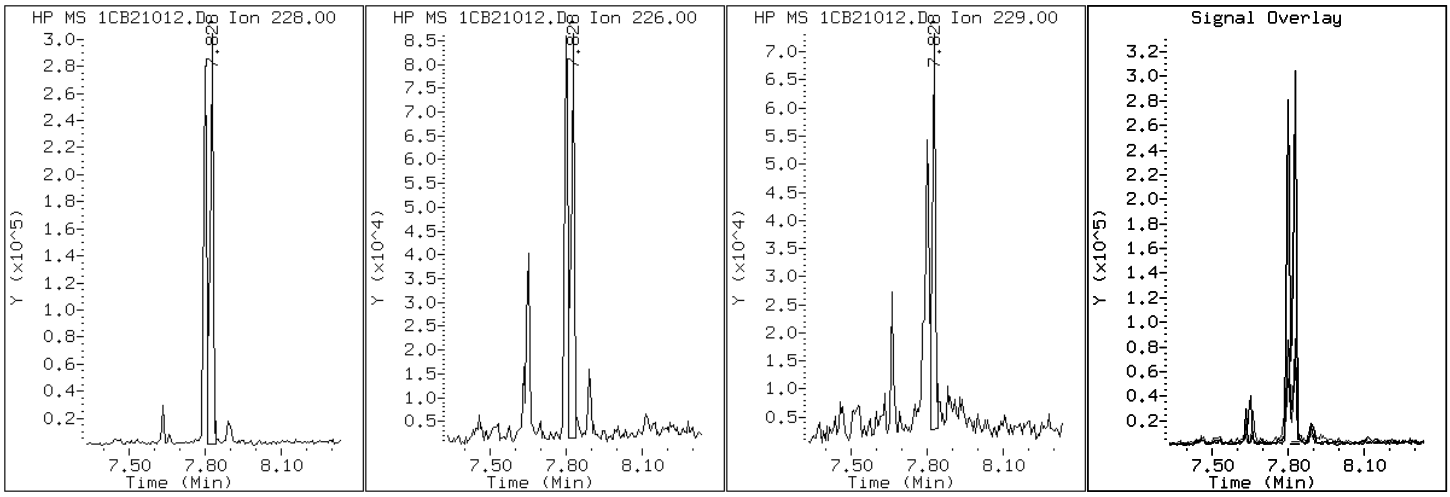
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

19 Chrysene



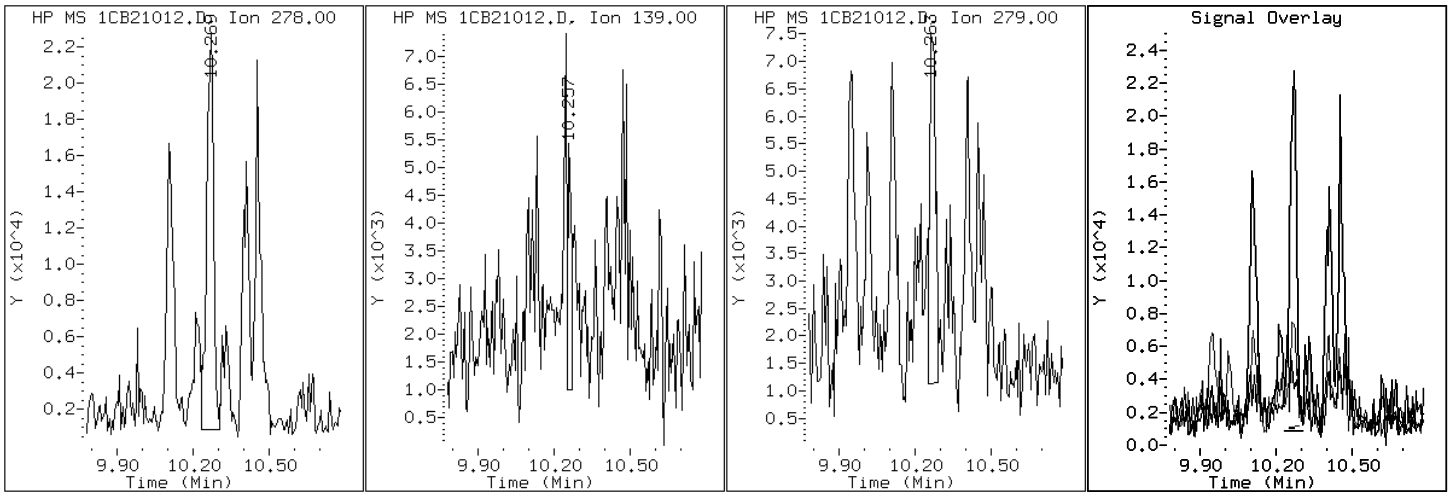
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

25 Dibenzo(a,h)anthracene



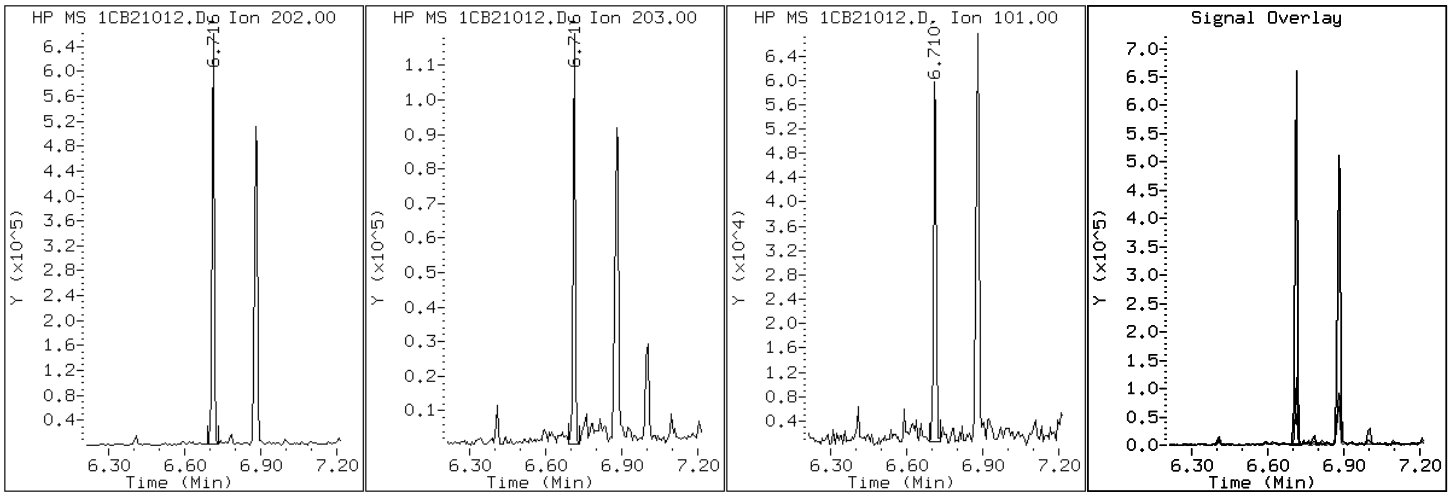
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

15 Fluoranthene



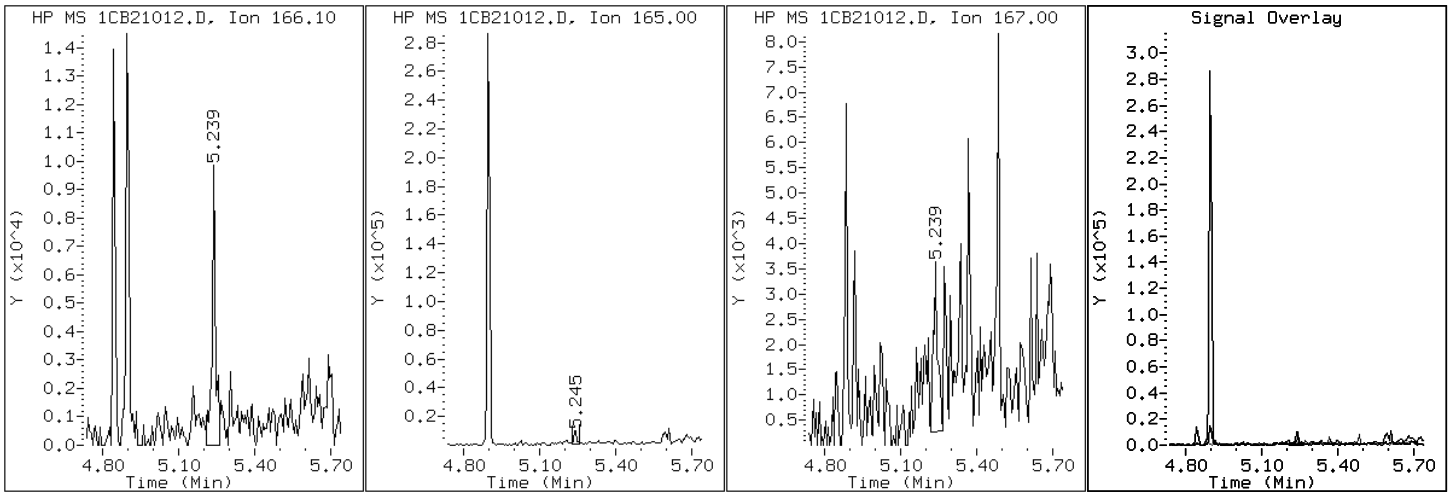
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

9 Fluorene



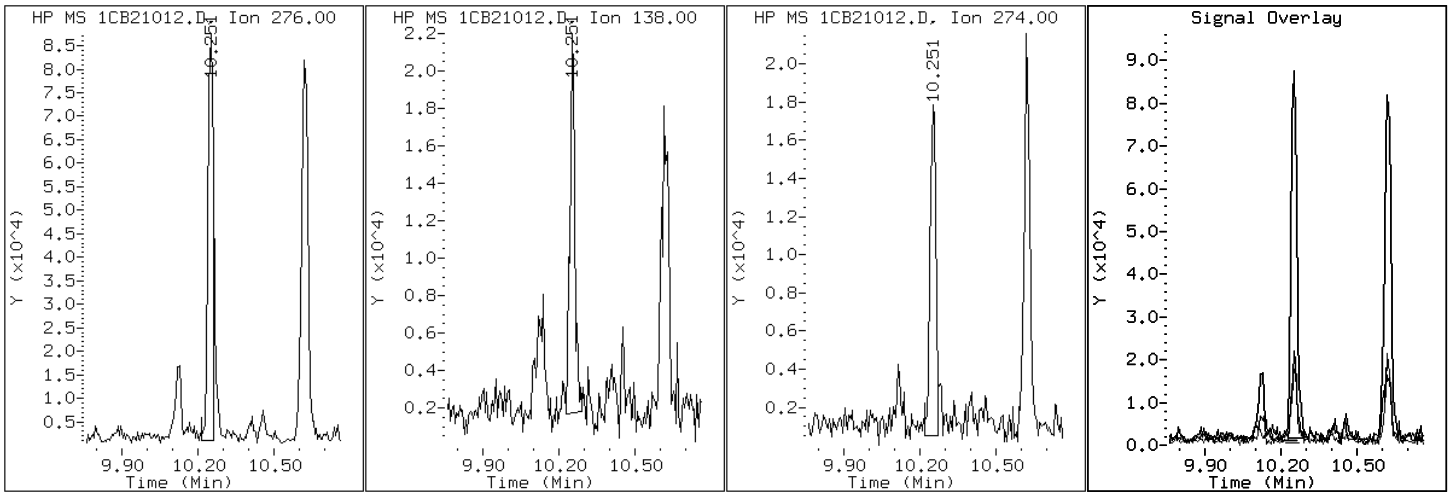
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

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



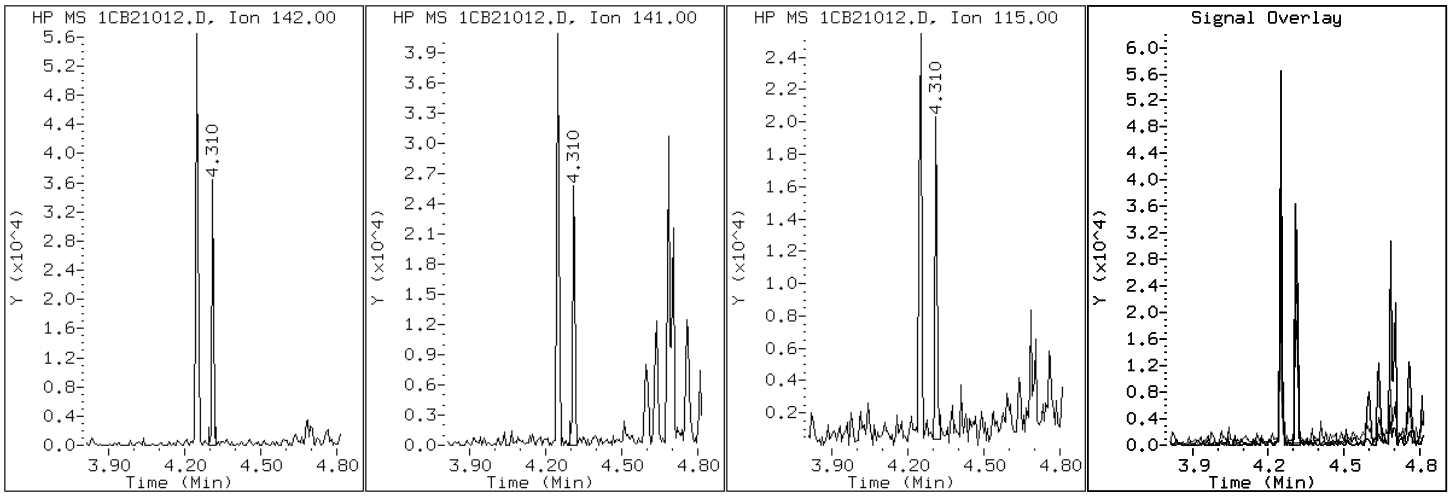
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

4 1-Methylnaphthalene



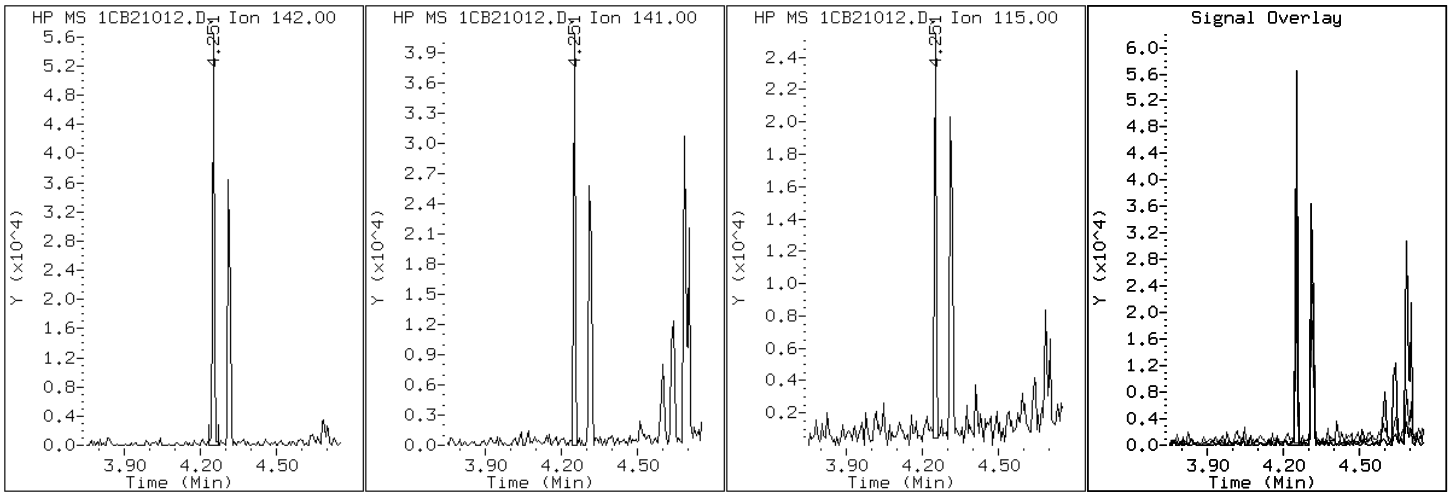
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

3 2-Methylnaphthalene



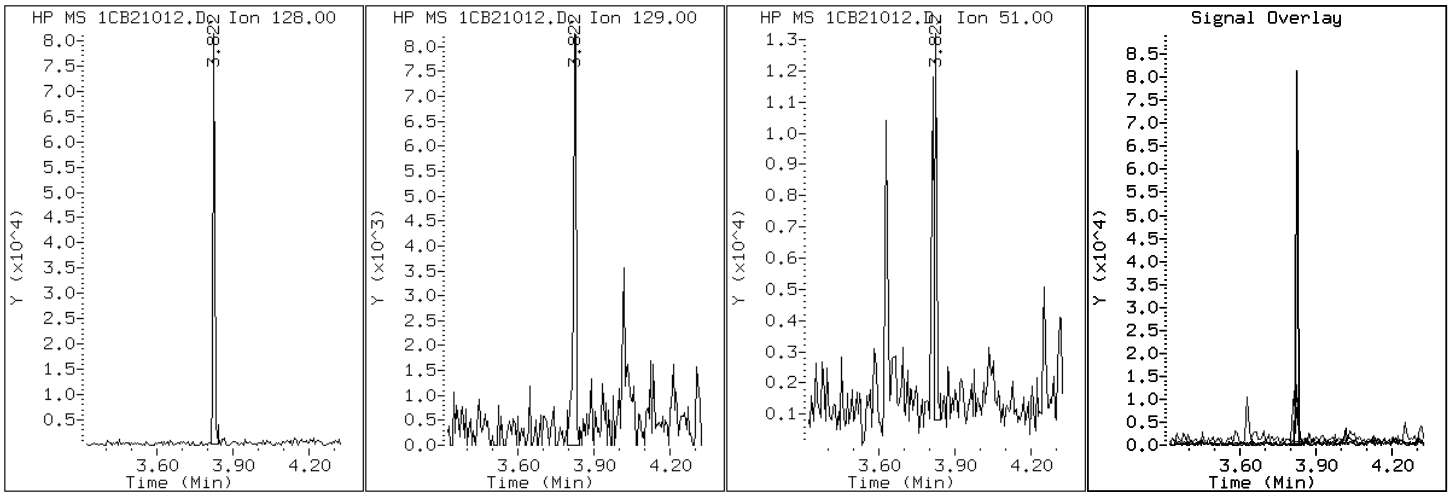
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

2 Naphthalene



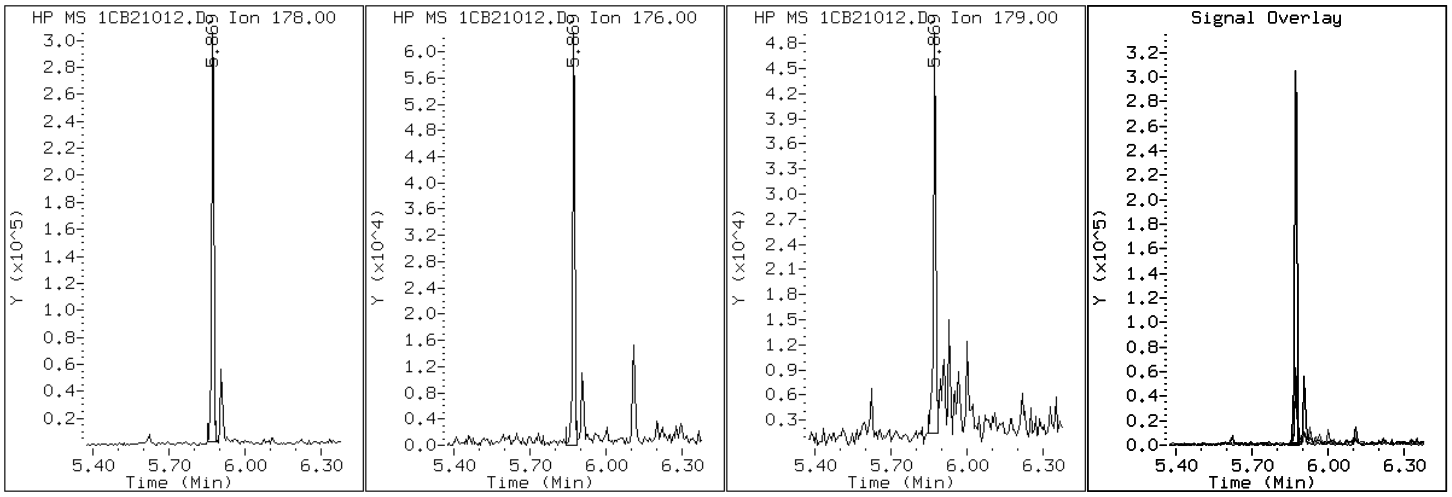
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

11 Phenanthrene



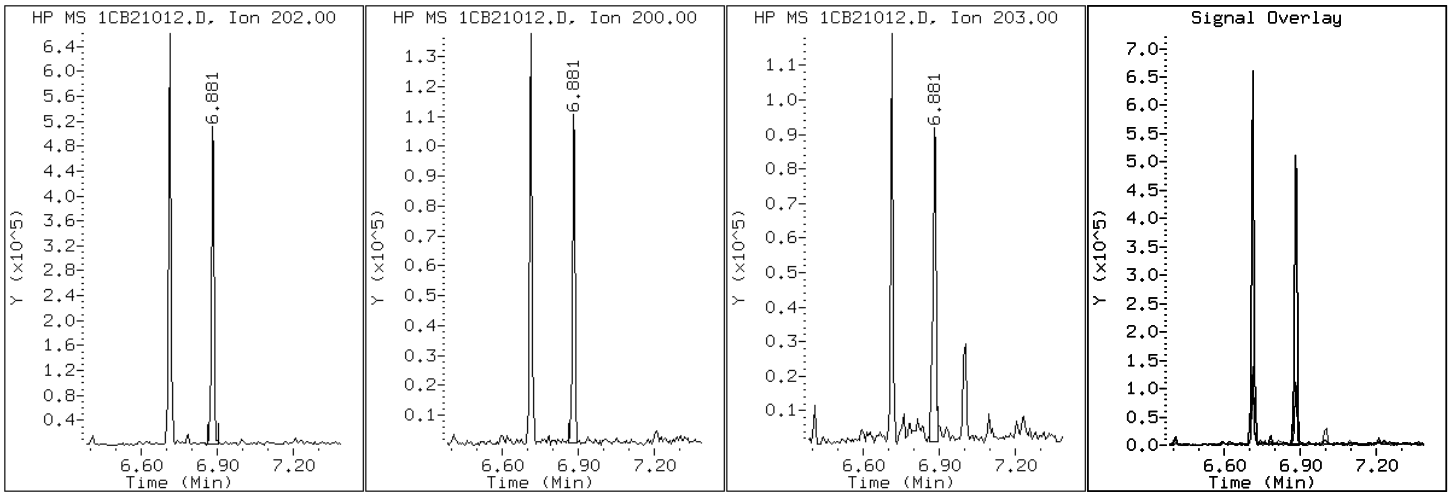
Data File: 1CB21012.D

Date: 21-FEB-2013 14:32

Client ID: CV0971PP-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-27-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21012.D
Inj. Date and Time: 21-FEB-2013 14:32
Instrument ID: BSMC5973.i
Client ID: CV0971PP-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

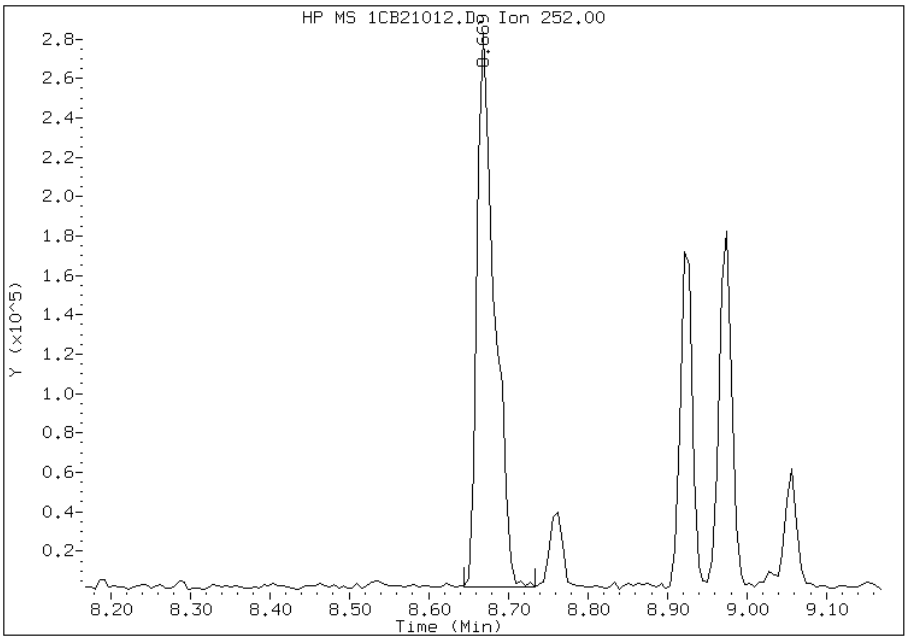
Processing Integration Results

RT: 8.67

Response: 432128

Amount: 7

Conc: 692



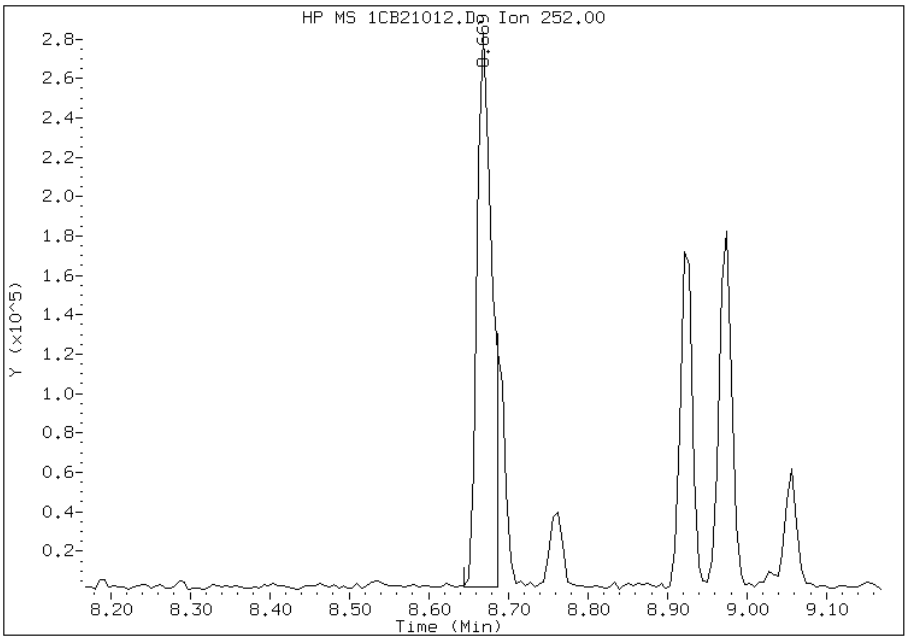
Manual Integration Results

RT: 8.67

Response: 371121

Amount: 6

Conc: 595



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:20
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB21012.D
Inj. Date and Time: 21-FEB-2013 14:32
Instrument ID: BSMC5973.i
Client ID: CV0971PP-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

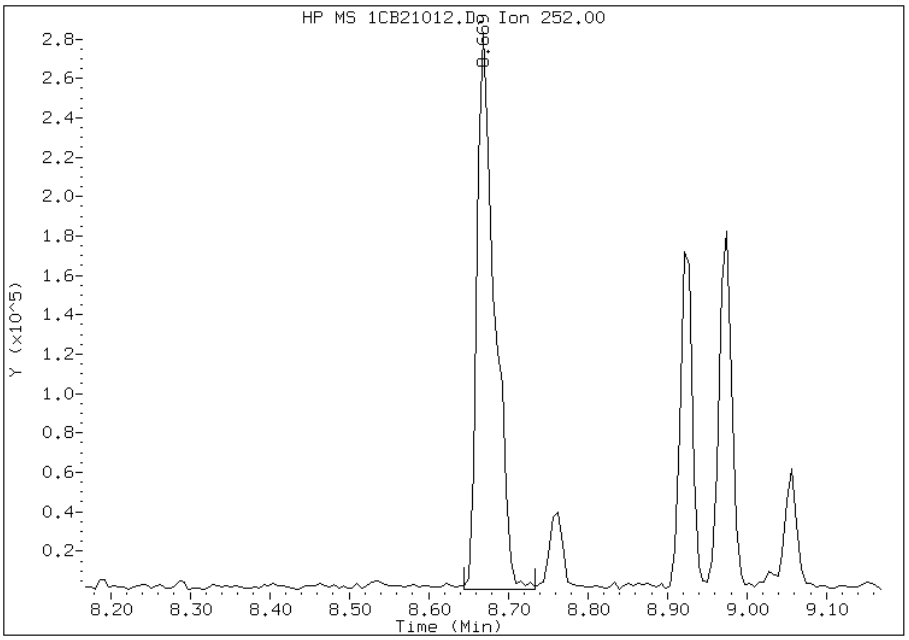
Processing Integration Results

RT: 8.67

Response: 437301

Amount: 6

Conc: 636



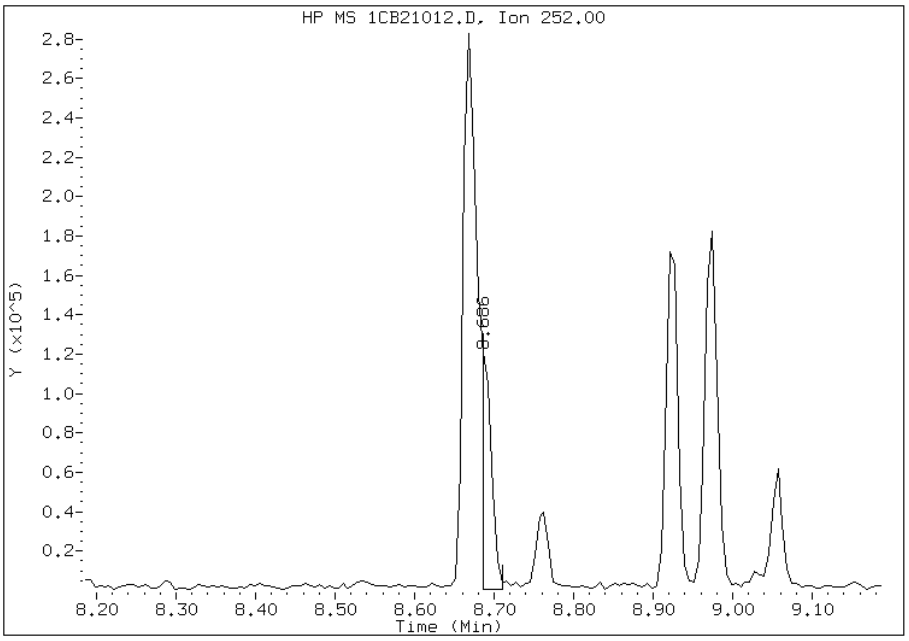
Manual Integration Results

RT: 8.69

Response: 103157

Amount: 2

Conc: 150



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21012.D
Inj. Date and Time: 21-FEB-2013 14:32
Instrument ID: BSMC5973.i
Client ID: CV0971PP-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

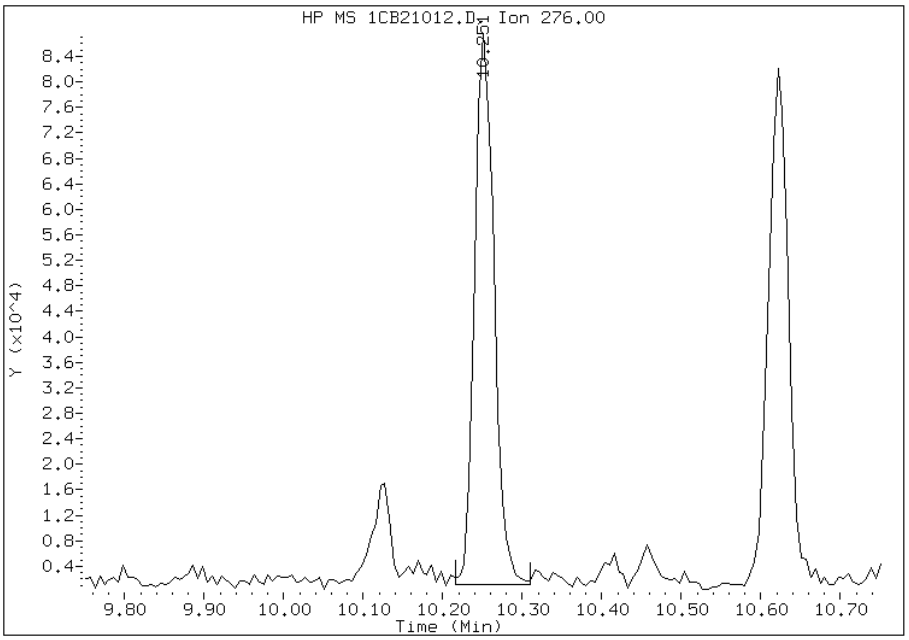
Processing Integration Results

RT: 10.25

Response: 146078

Amount: 3

Conc: 256



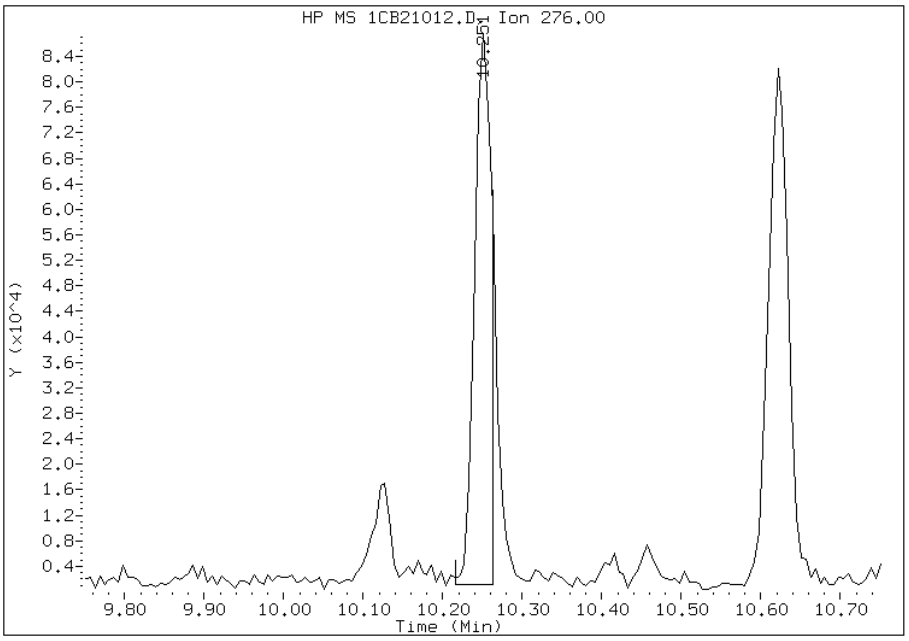
Manual Integration Results

RT: 10.25

Response: 126602

Amount: 2

Conc: 222



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971QQ-CS | Lab Sample ID: 680-87496-28

Matrix: Solid | Lab File ID: 1CB21008.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:28

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 14.98(g) | Date Analyzed: 02/21/2013 13:19

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

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

% Moisture: 38.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	53	J	65	8.2
120-12-7	Anthracene	72		14	6.9
56-55-3	Benzo[a]anthracene	420	F	13	6.4
50-32-8	Benzo[a]pyrene	450	F	17	8.5
205-99-2	Benzo[b]fluoranthene	720	F	20	10
191-24-2	Benzo[g,h,i]perylene	350		33	7.2
207-08-9	Benzo[k]fluoranthene	210	F	13	5.9
218-01-9	Chrysene	490	F	15	7.4
53-70-3	Dibenz(a,h)anthracene	90		33	6.7
206-44-0	Fluoranthene	820	F	33	6.5
86-73-7	Fluorene	24	J	33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	270		33	12
90-12-0	1-Methylnaphthalene	96		65	7.2
91-57-6	2-Methylnaphthalene	86		65	12
91-20-3	Naphthalene	110		65	7.2
85-01-8	Phenanthrene	340	F	13	6.4
129-00-0	Pyrene	700	F	33	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	110		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21008.D
Lab Smp Id: 680-87496-A-28-A Client Smp ID: CV0971QQ-CS
Inj Date : 21-FEB-2013 13:19
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-28-a
Misc Info : 680-87496-A-28-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	38.833	% 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	3.810	3.810	(1.000)	1643387	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1275454	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2324007	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	373775	10.9766	1197.9559
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2505394	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2493087	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	43019	0.98786	107.8125
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	22193	0.78377	85.5385
4 1-Methylnaphthalene	142	4.316	4.315	(1.133)	22705	0.88165	96.2213
5 Acenaphthylene	152	4.810	4.815	(0.982)	24549	0.48379	52.7997
9 Fluorene	166	5.239	5.239	(1.070)	9104	0.22285	24.3212
11 Phenanthrene	178	5.868	5.874	(1.002)	214662	3.09445	337.7198
12 Anthracene	178	5.904	5.904	(1.008)	41385	0.66216	72.2661
13 Carbazole	167	6.010	6.015	(1.026)	29680	0.54670	59.6658
15 Fluoranthene	202	6.715	6.715	(1.147)	510023	7.52422	821.1734

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.880	6.886	(0.881)	429045	6.43249	702.0245
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	265254	3.83927	419.0076
19 Chrysene	228	7.827	7.833	(1.002)	318144	4.45792	486.5257
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	403307	6.59835	720.1268(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	128567	1.90932	208.3779(QM)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	238205	4.09559	446.9816
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	138587	2.48085	270.7532(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	43577	0.82721	90.2793
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	184539	3.25205	354.9203(M)

QC Flag Legend

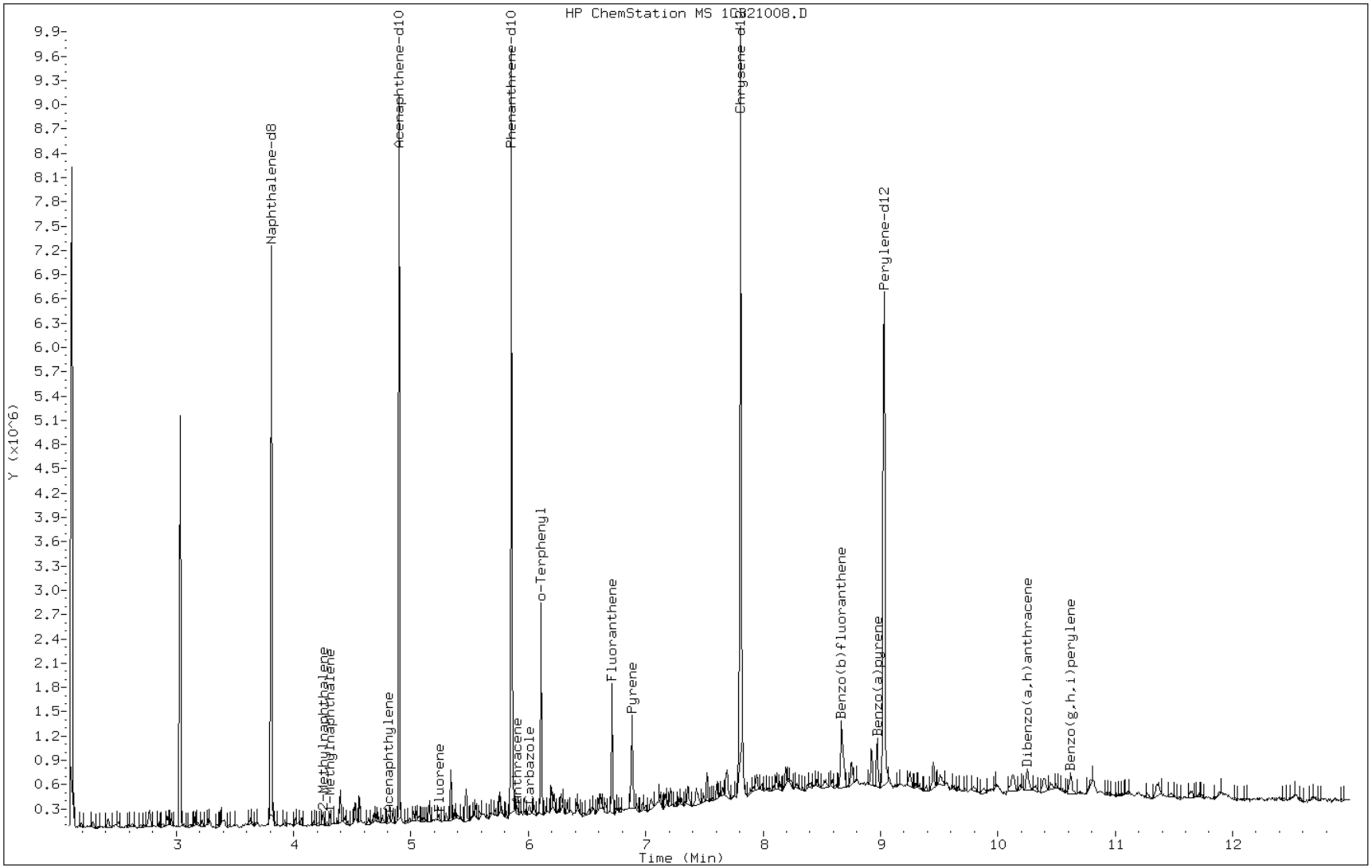
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC



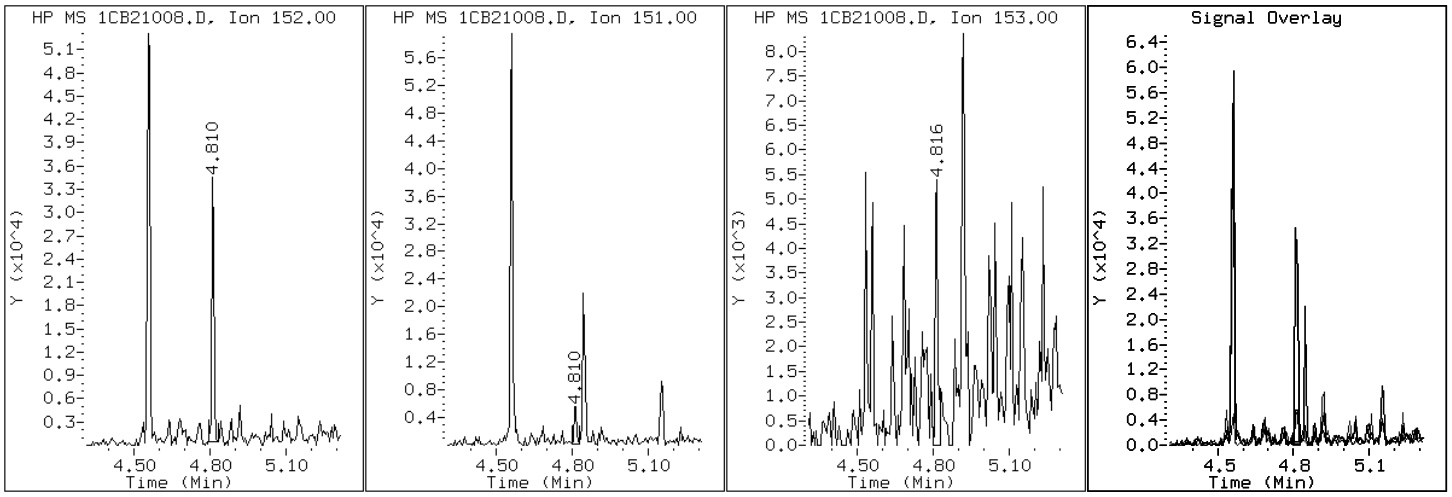
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

5 Acenaphthylene



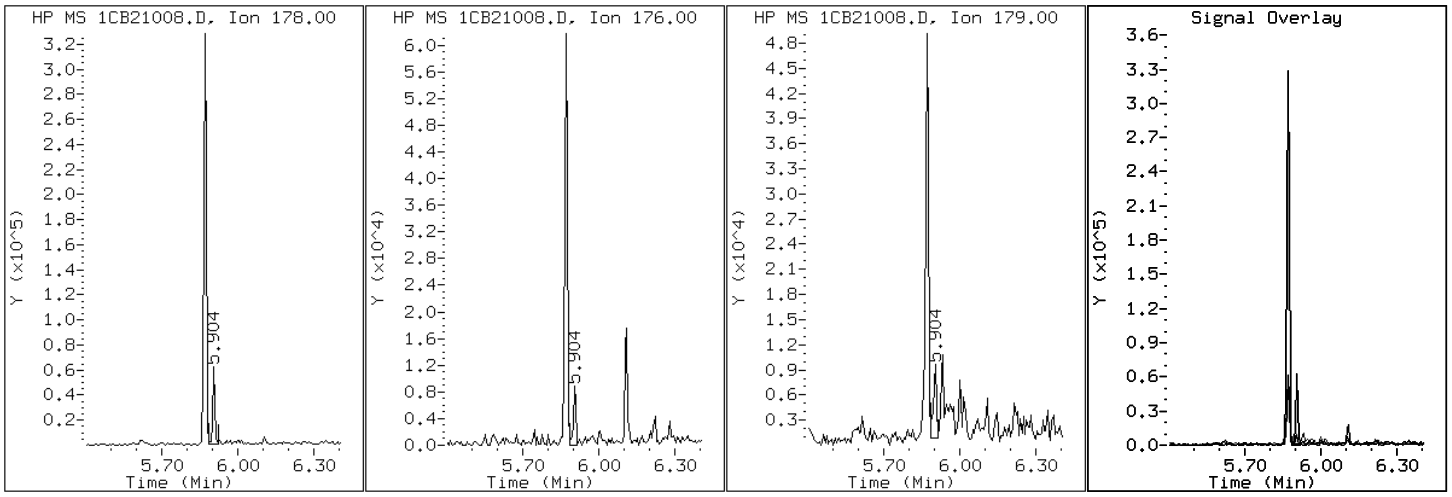
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

12 Anthracene



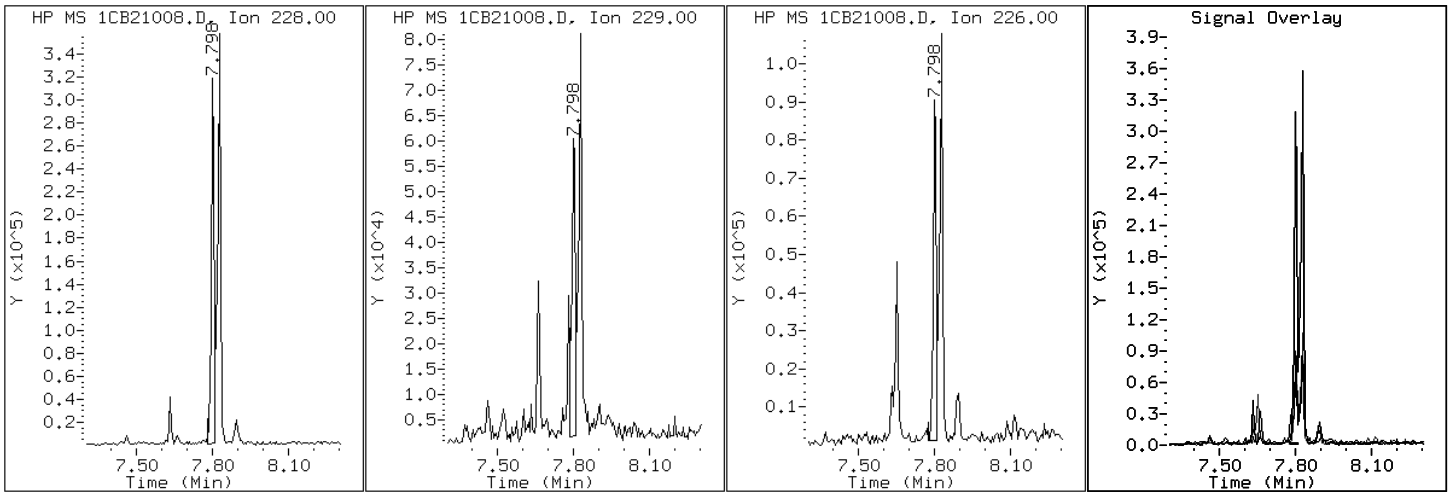
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

17 Benzo(a)anthracene



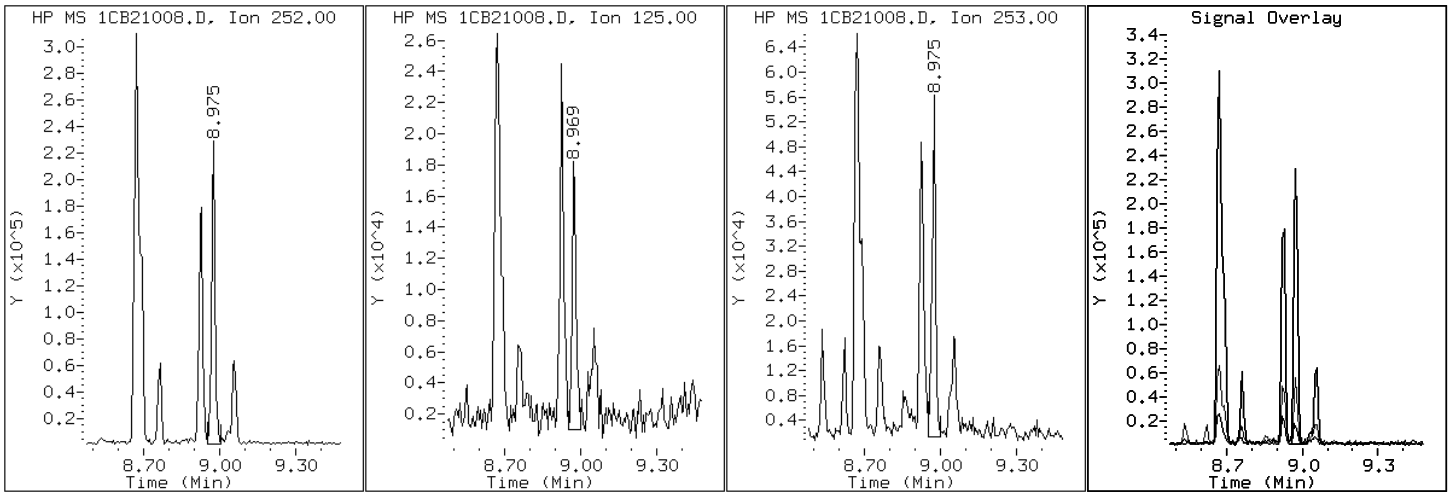
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

22 Benzo(a)pyrene



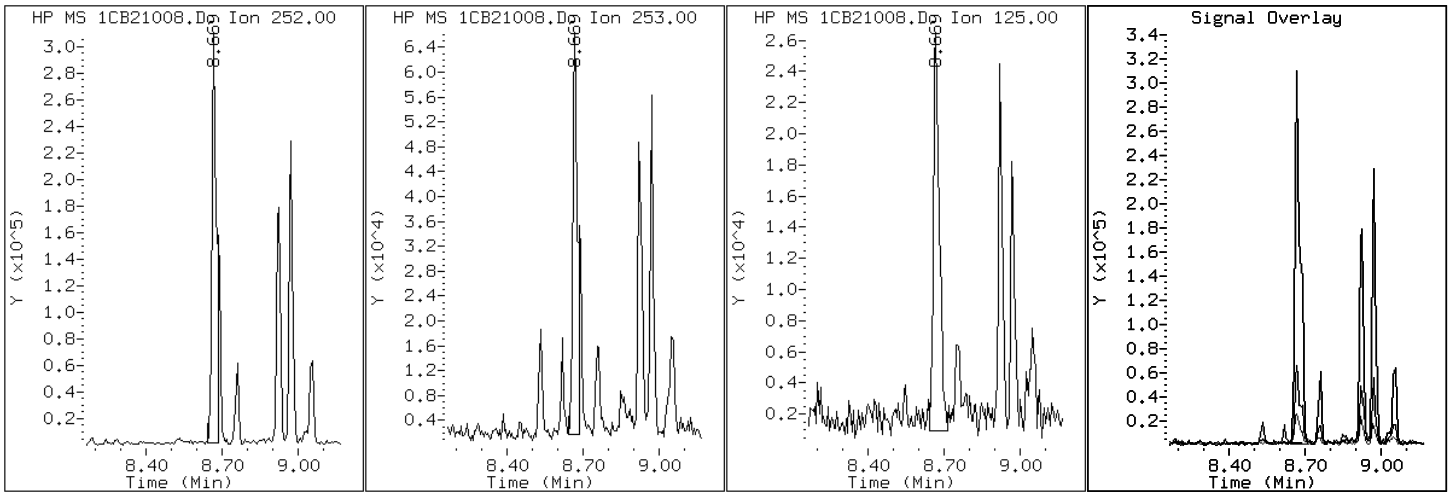
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

20 Benzo(b)fluoranthene



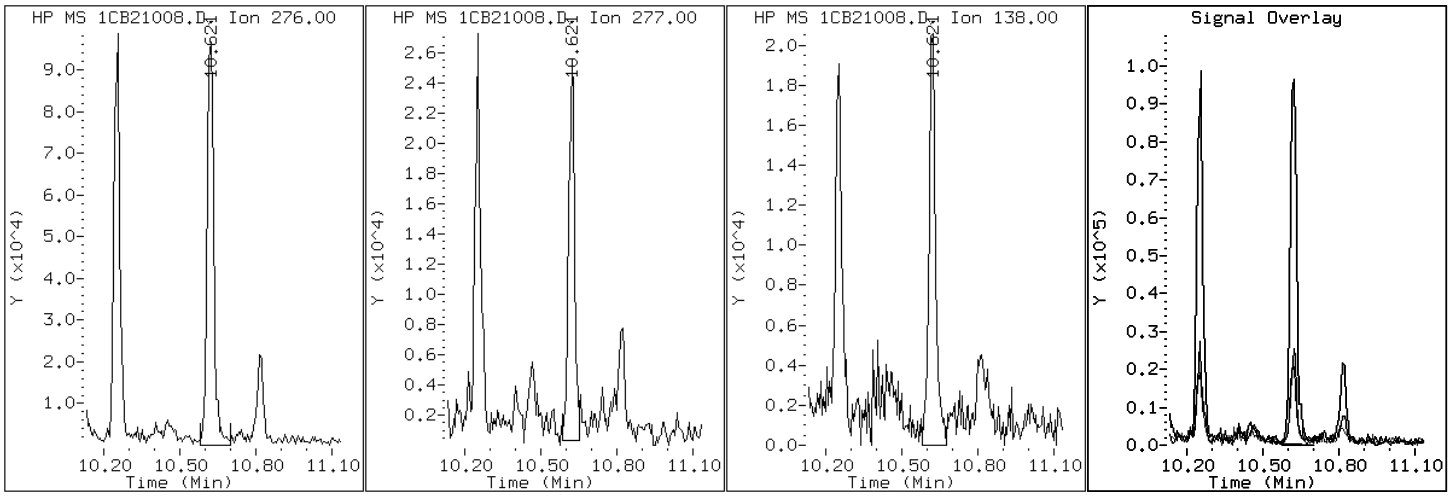
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

26 Benzo(g,h,i)perylene



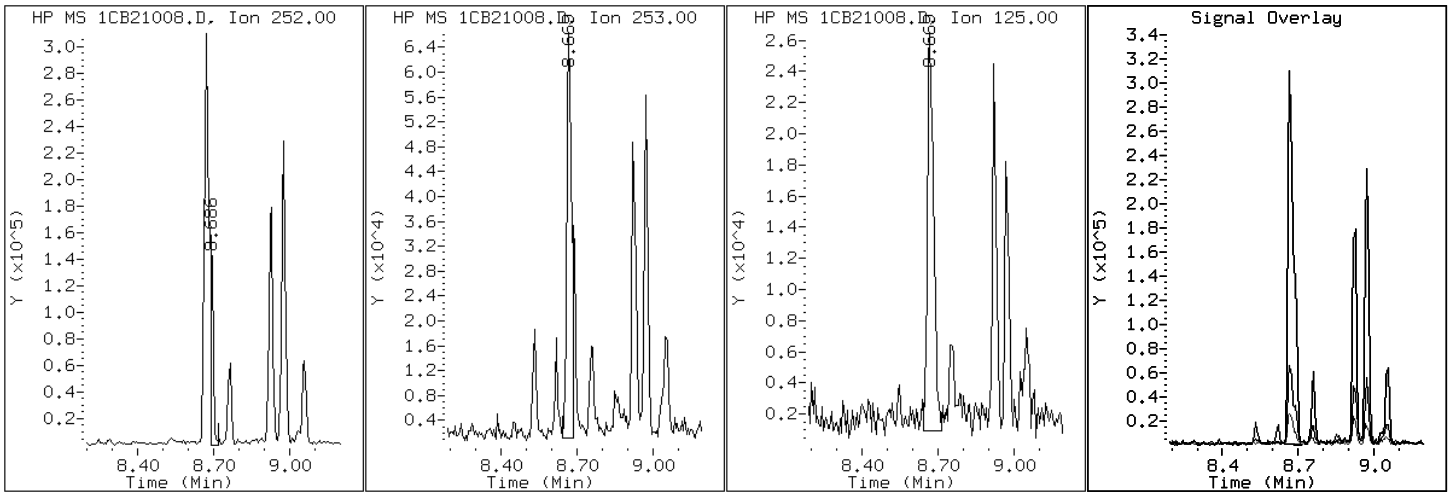
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

21 Benzo(k)fluoranthene



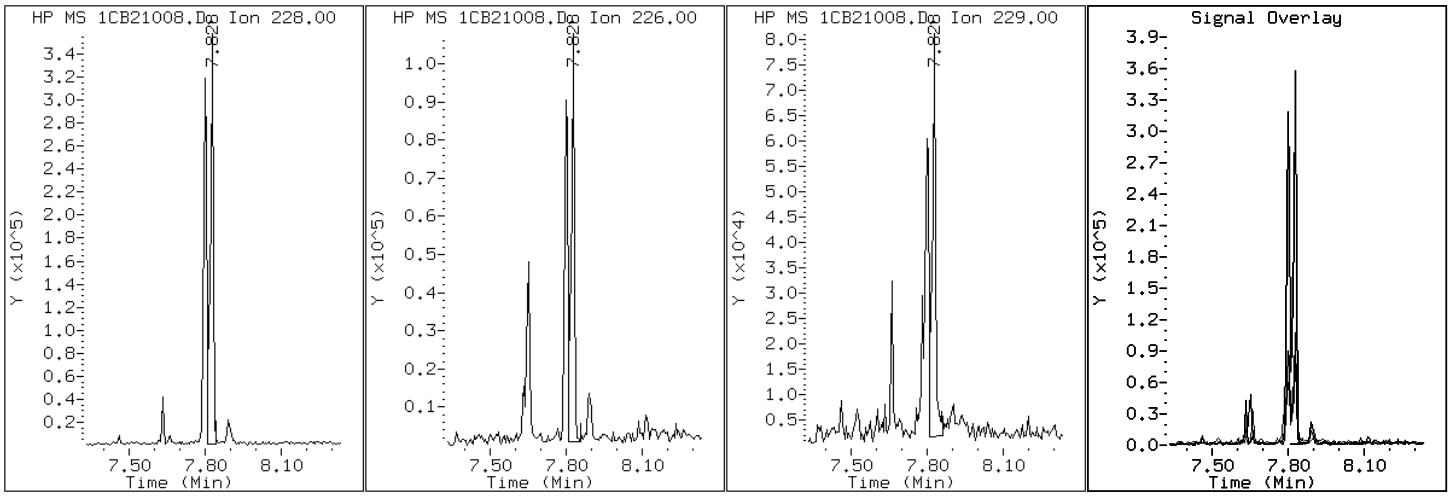
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

19 Chrysene



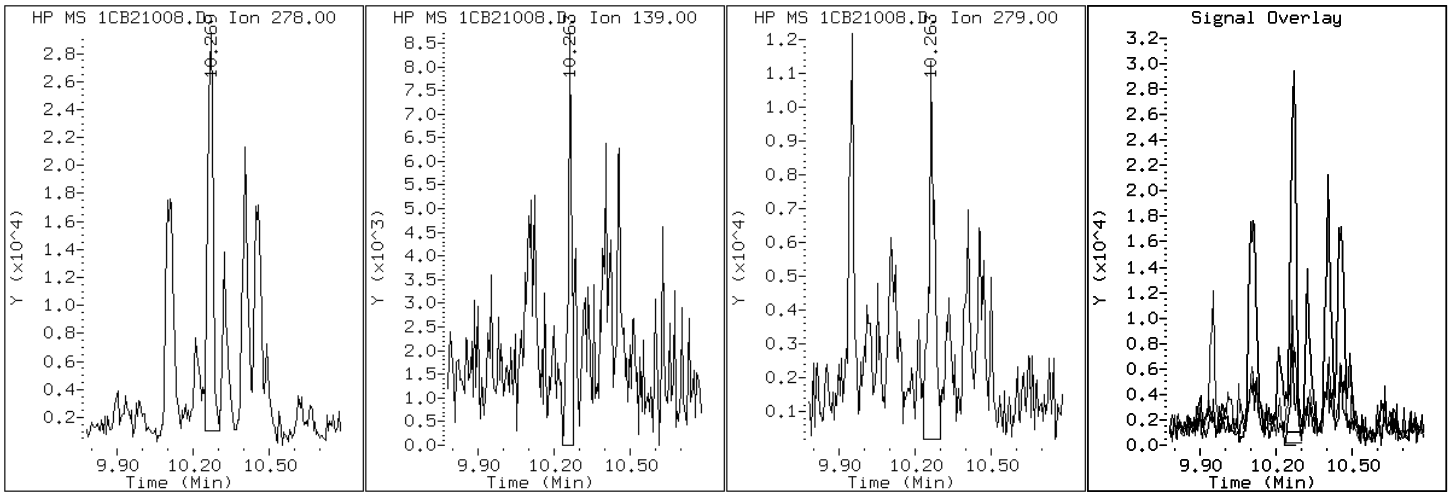
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

25 Dibenzo(a,h)anthracene



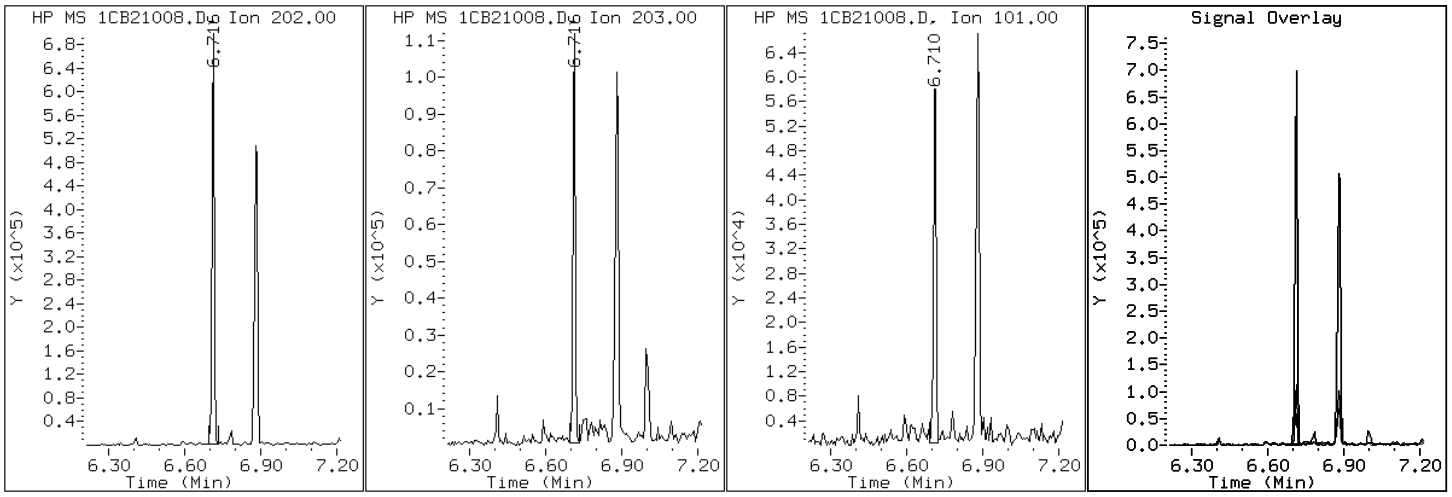
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

15 Fluoranthene



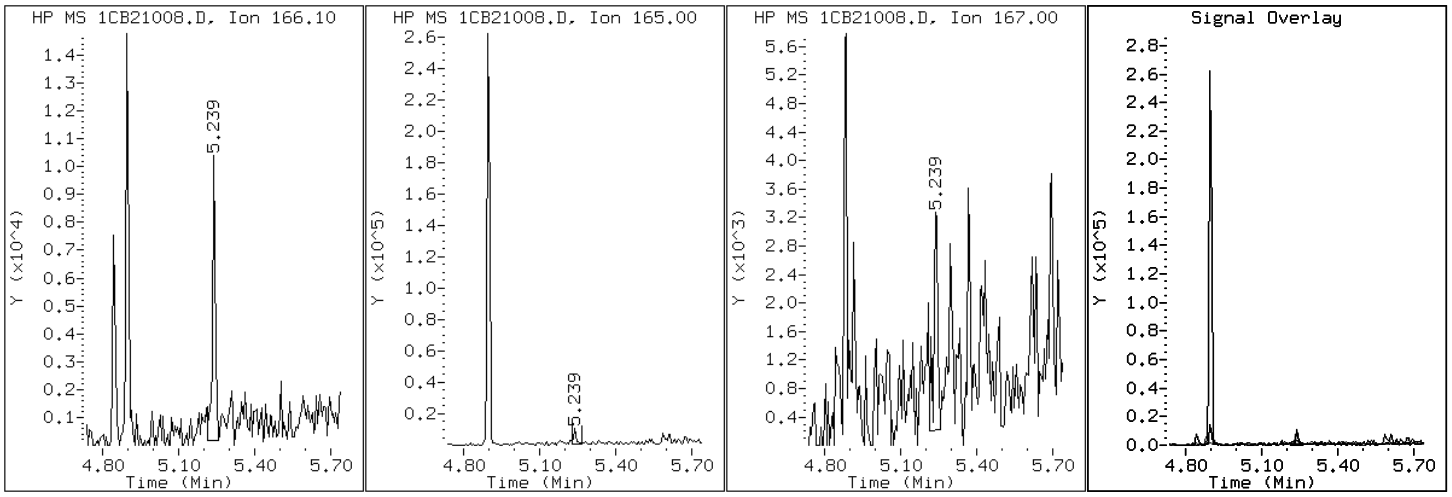
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

9 Fluorene



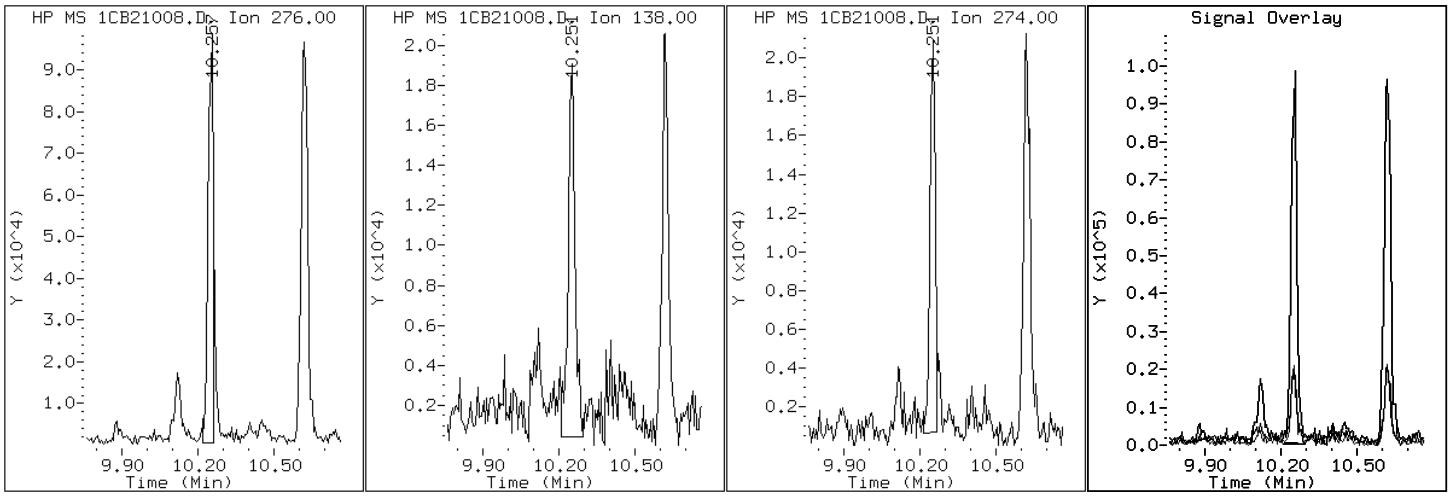
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

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



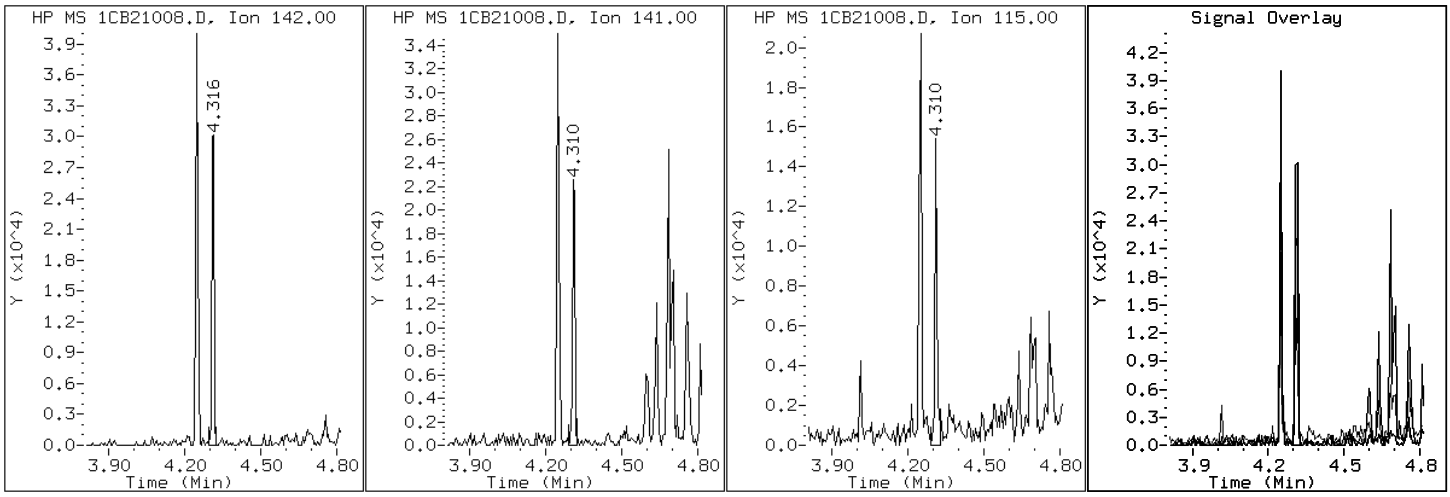
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

4 1-Methylnaphthalene



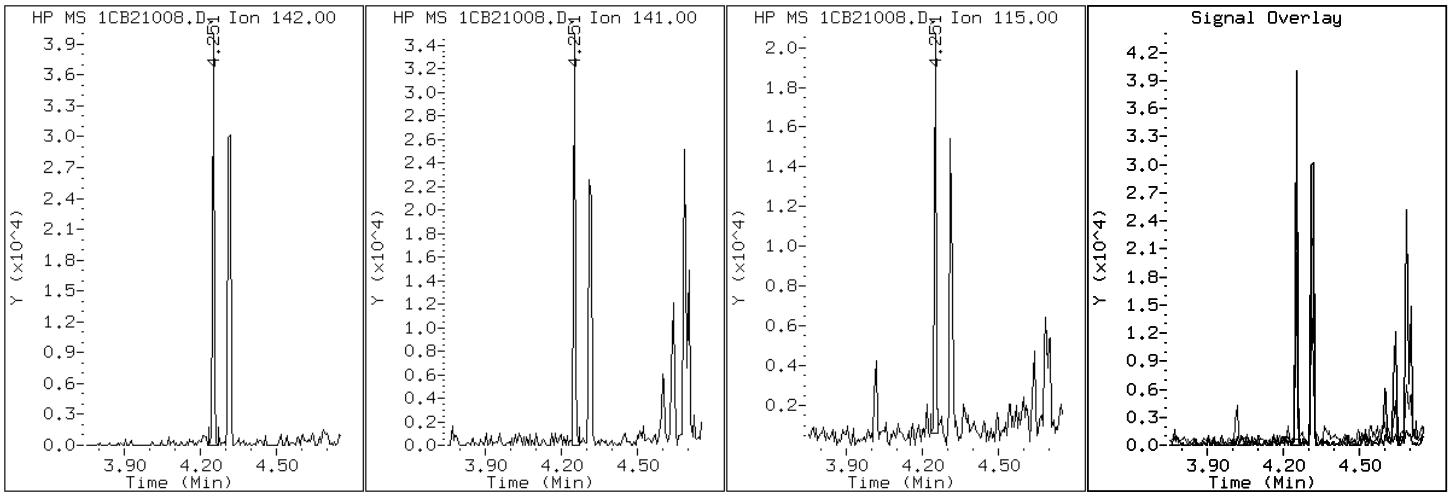
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

3 2-Methylnaphthalene



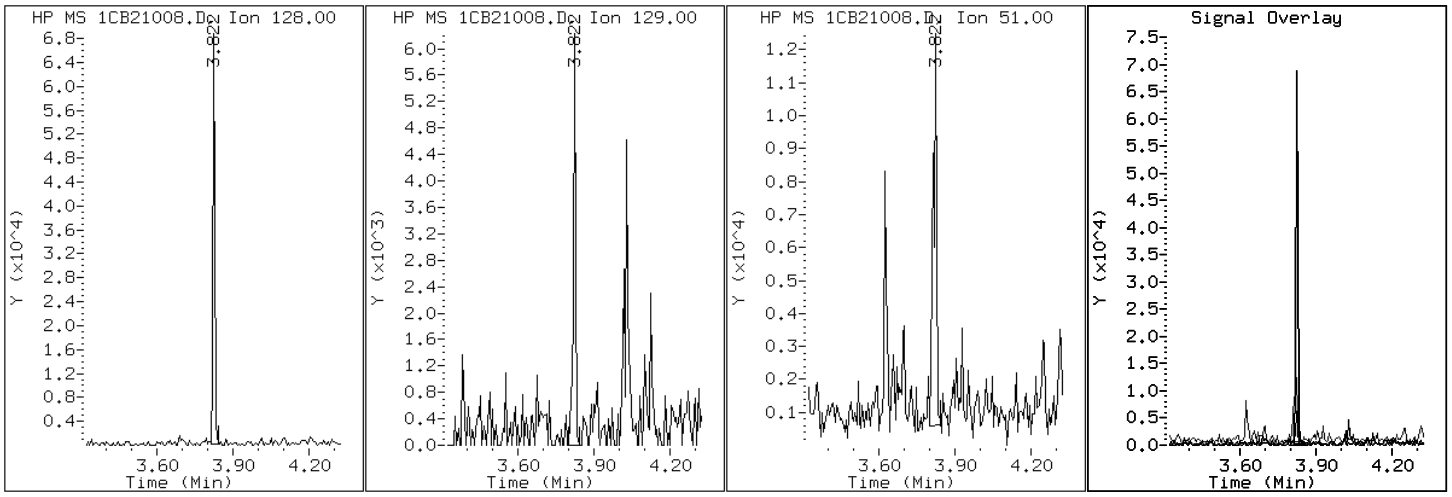
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

2 Naphthalene



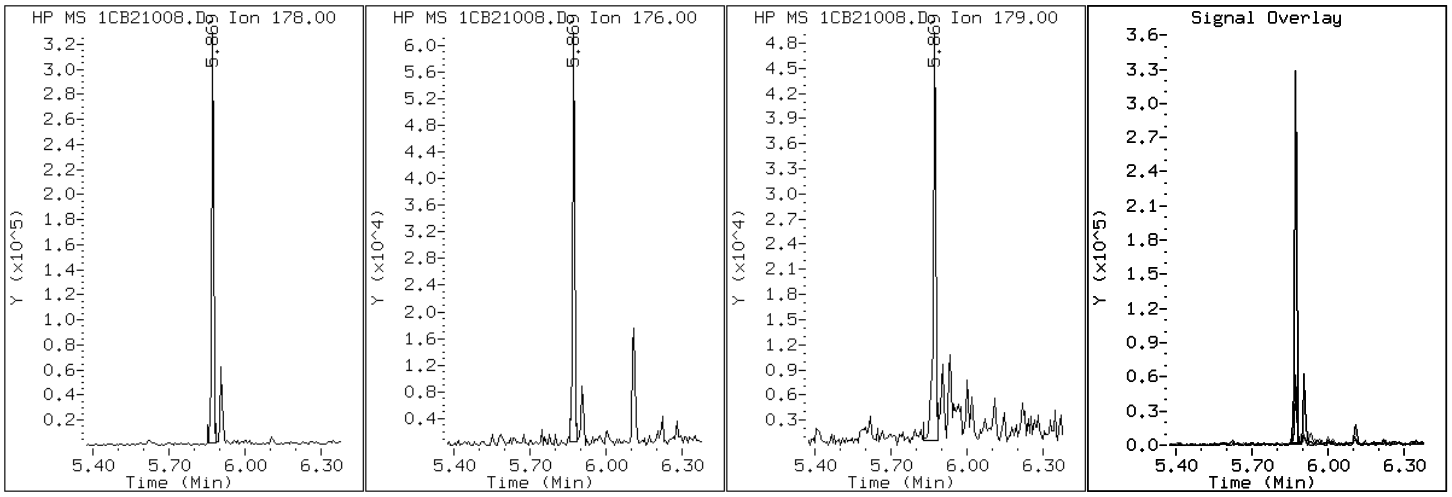
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

11 Phenanthrene



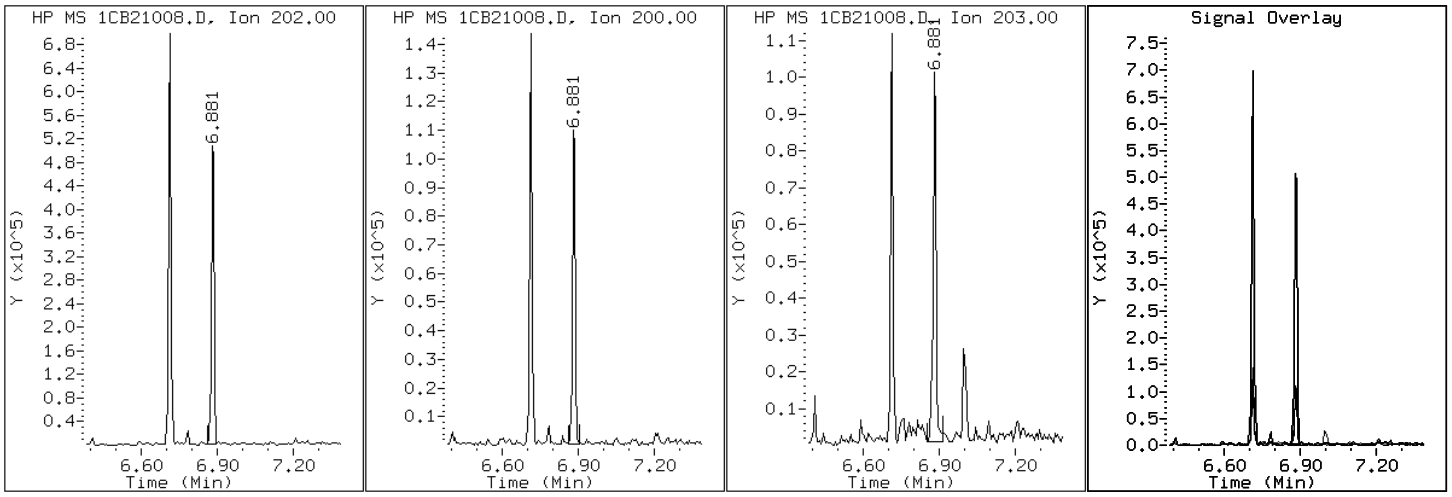
Data File: 1CB21008.D

Date: 21-FEB-2013 13:19

Client ID: CV0971QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21008.D
Inj. Date and Time: 21-FEB-2013 13:19
Instrument ID: BSMC5973.i
Client ID: CV0971QQ-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

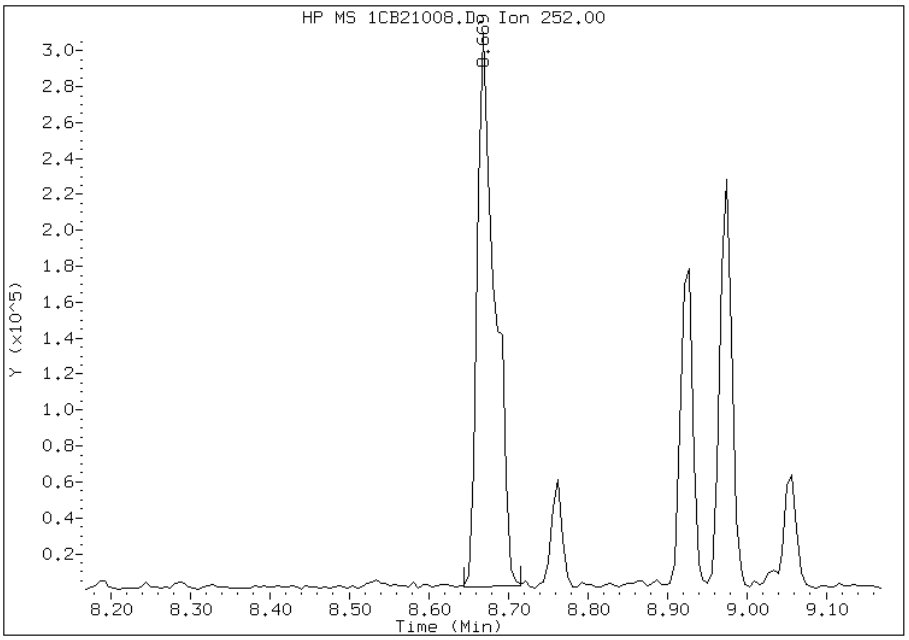
Processing Integration Results

RT: 8.67

Response: 478346

Amount: 8

Conc: 854



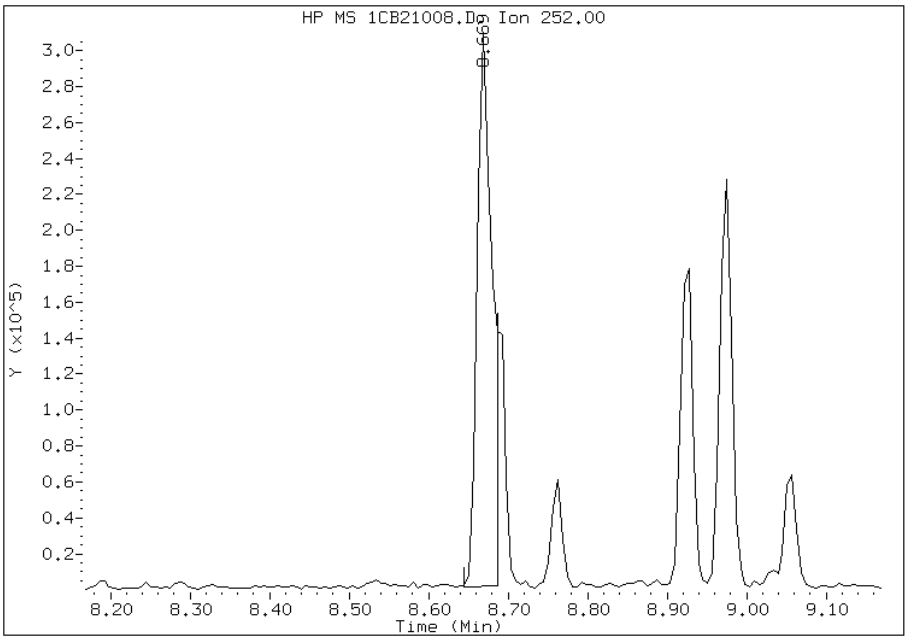
Manual Integration Results

RT: 8.67

Response: 403307

Amount: 7

Conc: 720



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 13:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB21008.D
Inj. Date and Time: 21-FEB-2013 13:19
Instrument ID: BSMC5973.i
Client ID: CV0971QQ-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/21/2013

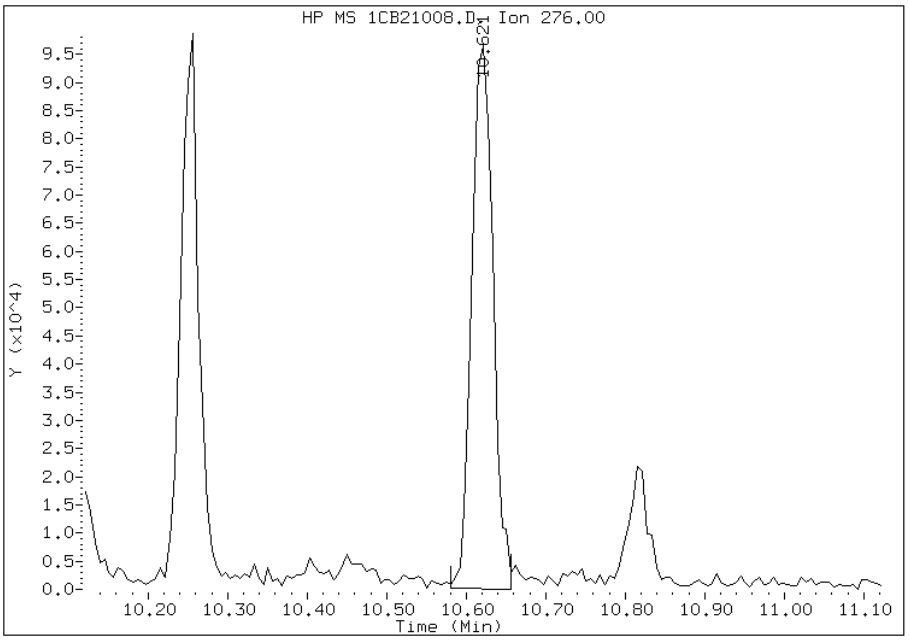
Processing Integration Results

RT: 10.62

Response: 179019

Amount: 3

Conc: 344



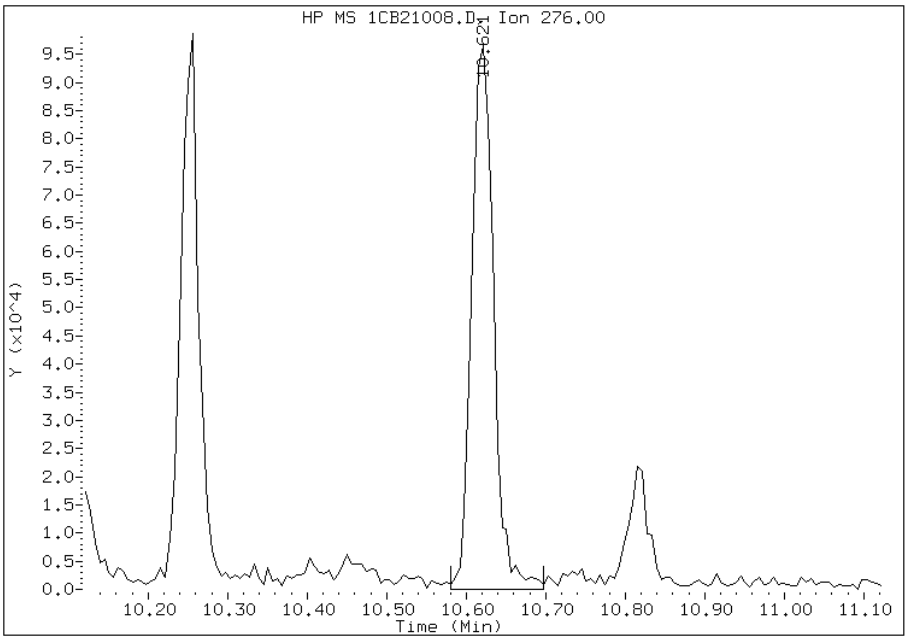
Manual Integration Results

RT: 10.62

Response: 184539

Amount: 3

Conc: 355



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 13:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21008.D
Inj. Date and Time: 21-FEB-2013 13:19
Instrument ID: BSMC5973.i
Client ID: CV0971QQ-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

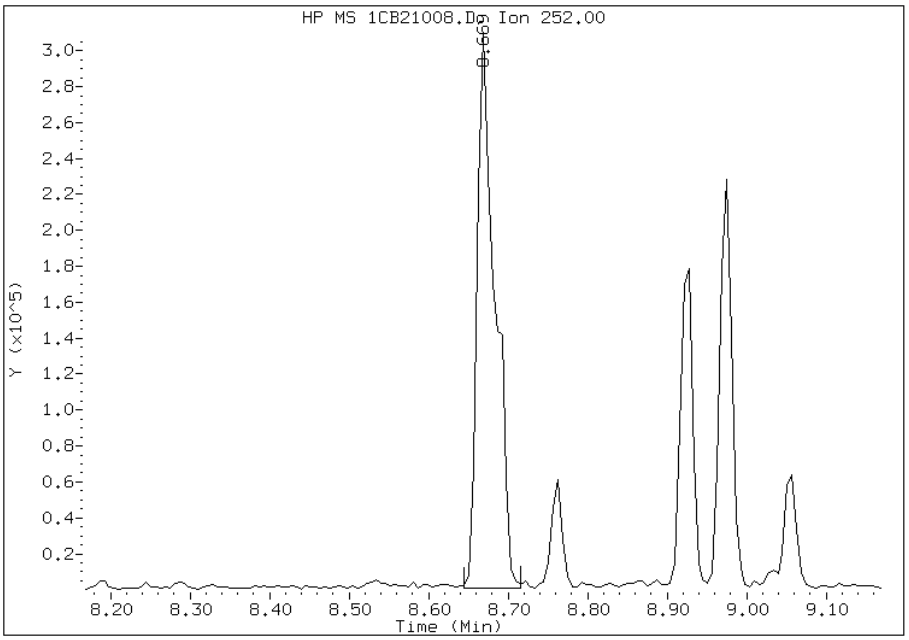
Processing Integration Results

RT: 8.67

Response: 483854

Amount: 7

Conc: 784



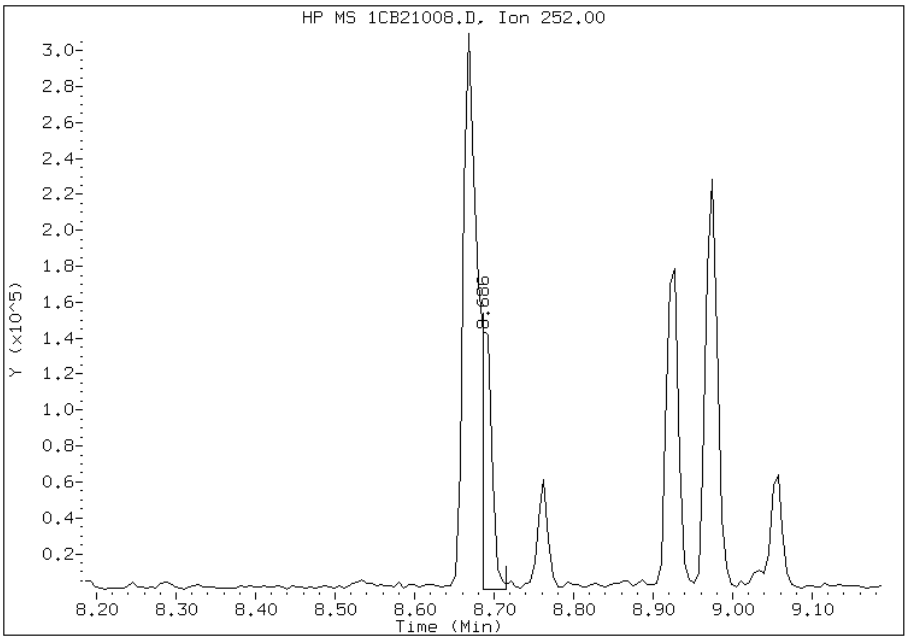
Manual Integration Results

RT: 8.69

Response: 128567

Amount: 2

Conc: 208



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 13:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21008.D
Inj. Date and Time: 21-FEB-2013 13:19
Instrument ID: BSMC5973.i
Client ID: CV0971QQ-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

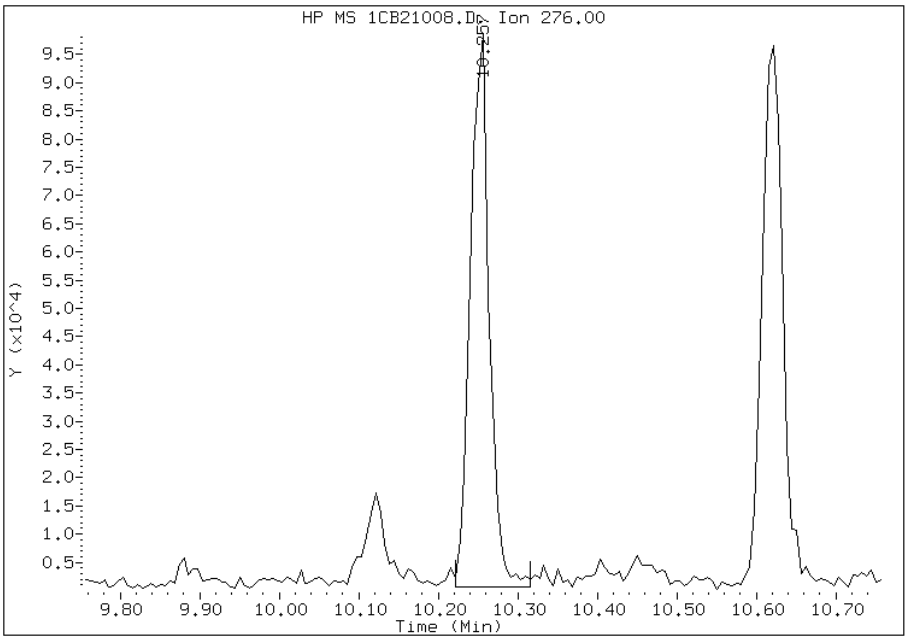
Processing Integration Results

RT: 10.26

Response: 161242

Amount: 3

Conc: 315



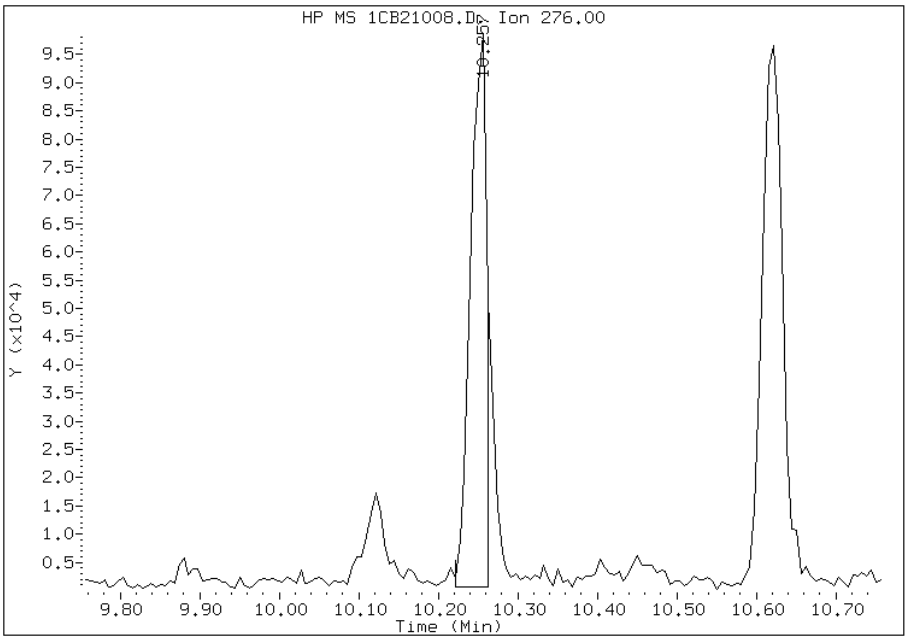
Manual Integration Results

RT: 10.26

Response: 138587

Amount: 2

Conc: 271



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 13:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971RR-CS | Lab Sample ID: 680-87496-29

Matrix: Solid | Lab File ID: 1CB21013.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:32

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.07(g) | Date Analyzed: 02/21/2013 14:51

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

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

% Moisture: 34.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	50	J	61	7.6
120-12-7	Anthracene	68		13	6.4
56-55-3	Benzo[a]anthracene	450		12	5.9
50-32-8	Benzo[a]pyrene	510		16	7.9
205-99-2	Benzo[b]fluoranthene	800		18	9.2
191-24-2	Benzo[g,h,i]perylene	340		30	6.7
207-08-9	Benzo[k]fluoranthene	260		12	5.4
218-01-9	Chrysene	540		14	6.8
53-70-3	Dibenz(a,h)anthracene	92		30	6.2
206-44-0	Fluoranthene	890		30	6.1
86-73-7	Fluorene	20	J	30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	290		30	11
90-12-0	1-Methylnaphthalene	62		61	6.7
91-57-6	2-Methylnaphthalene	80		61	11
91-20-3	Naphthalene	87		61	6.7
85-01-8	Phenanthrene	350		12	5.9
129-00-0	Pyrene	810		30	5.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21013.D
Lab Smp Id: 680-87496-A-29-A Client Smp ID: CV0971RR-CS
Inj Date : 21-FEB-2013 14:51
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-29-a
Misc Info : 680-87496-A-29-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	15.070	Weight Extracted
M	34.236	% 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	3.810	3.810	(1.000)	1710307	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1284785	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2336777	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	320071	9.34811	943.2398
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2453274	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2418139	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	38870	0.85766	86.5394
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	23251	0.78901	79.6119
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	16379	0.61112	61.6634
5 Acenaphthylene	152	4.816	4.815	(0.983)	25469	0.49828	50.2769(M)
9 Fluorene	166	5.239	5.239	(1.070)	8222	0.19980	20.1599
11 Phenanthrene	178	5.868	5.874	(1.002)	240809	3.45240	348.3528
12 Anthracene	178	5.904	5.904	(1.008)	42071	0.66946	67.5491
13 Carbazole	167	6.010	6.015	(1.026)	29067	0.53249	53.7287

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	600826	8.81537	889.4859
16 Pyrene	202	6.880	6.886	(0.881)	526495	8.06121	813.3898
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	303210	4.48188	452.2291
19 Chrysene	228	7.827	7.833	(1.002)	376554	5.38848	543.7062
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	467835	7.89130	796.2458(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	168626	2.58184	260.5121(M)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	282795	5.01295	505.8151
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	155234	2.86497	289.0807(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	46692	0.91381	92.2050
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	185910	3.37776	340.8213

QC Flag Legend

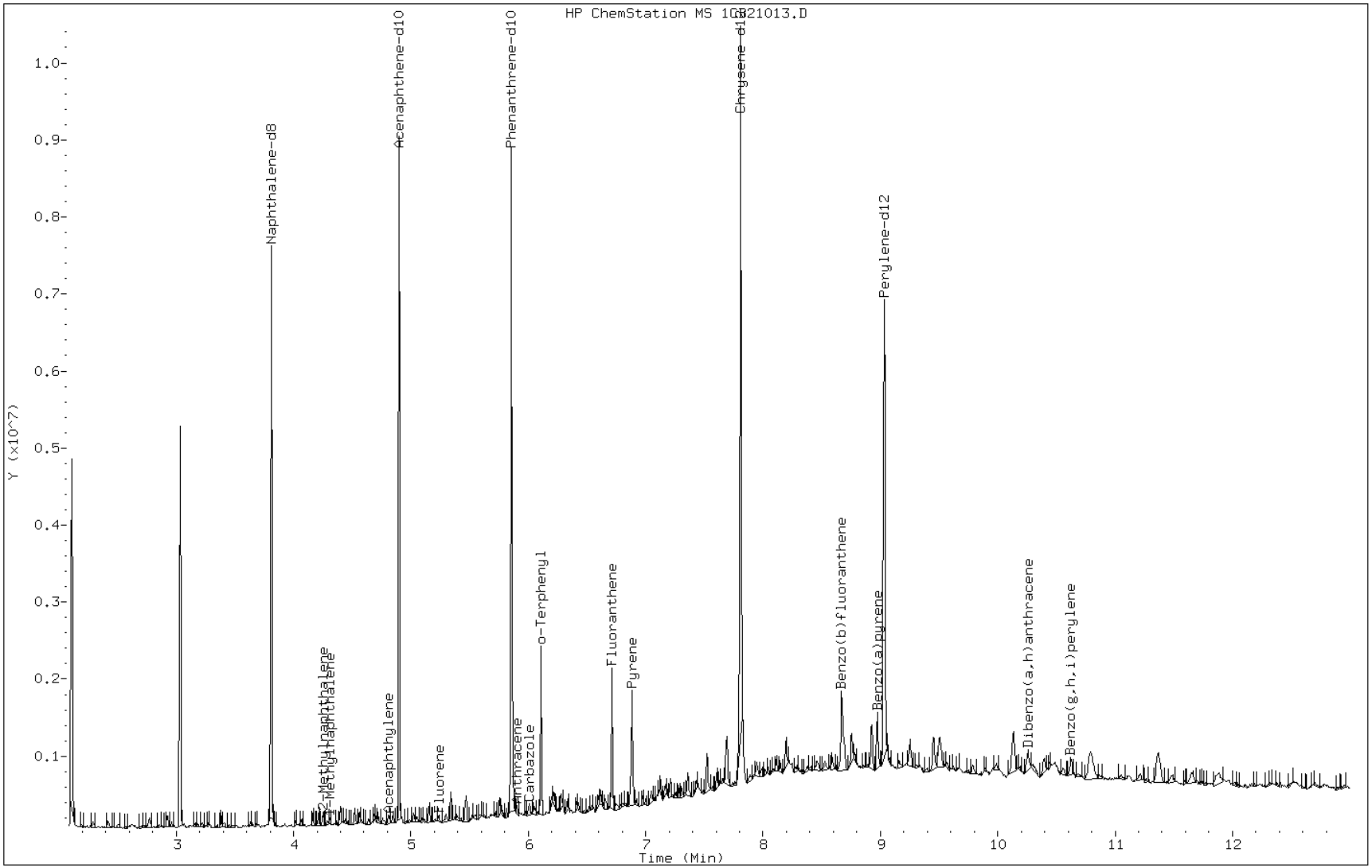
M - Compound response manually integrated.

Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC



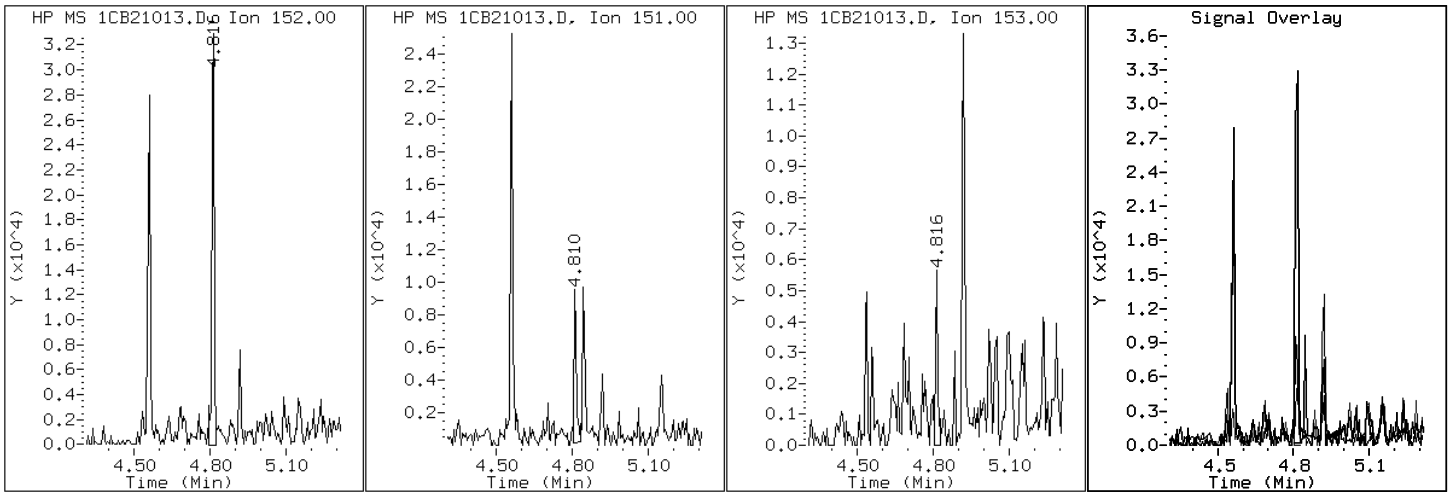
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

5 Acenaphthylene



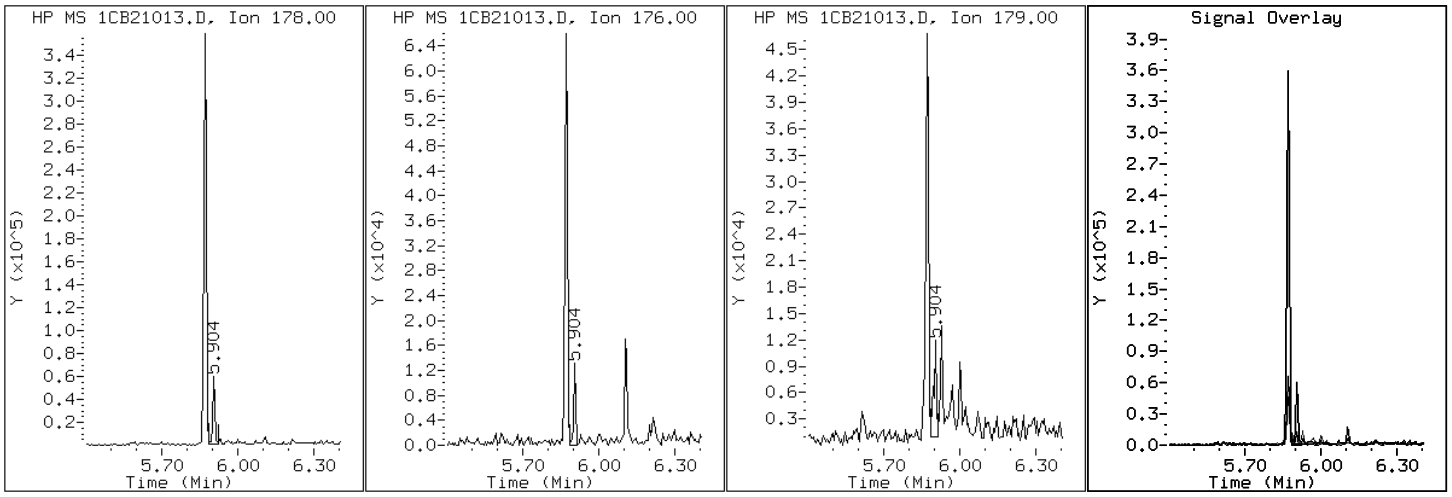
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

12 Anthracene



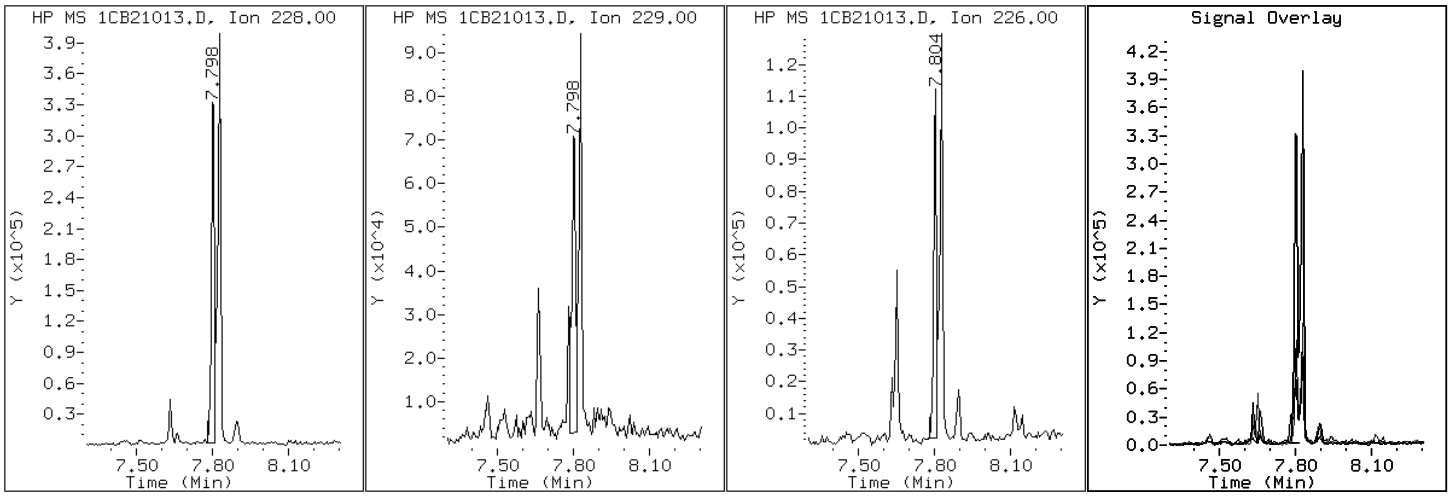
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

17 Benzo(a)anthracene



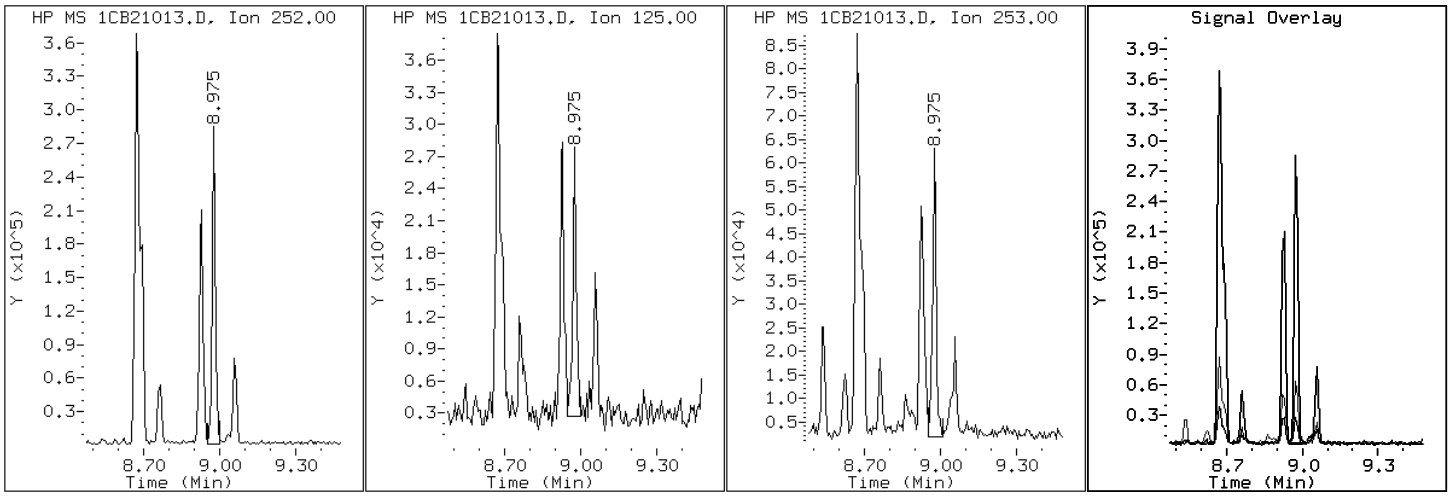
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

22 Benzo(a)pyrene



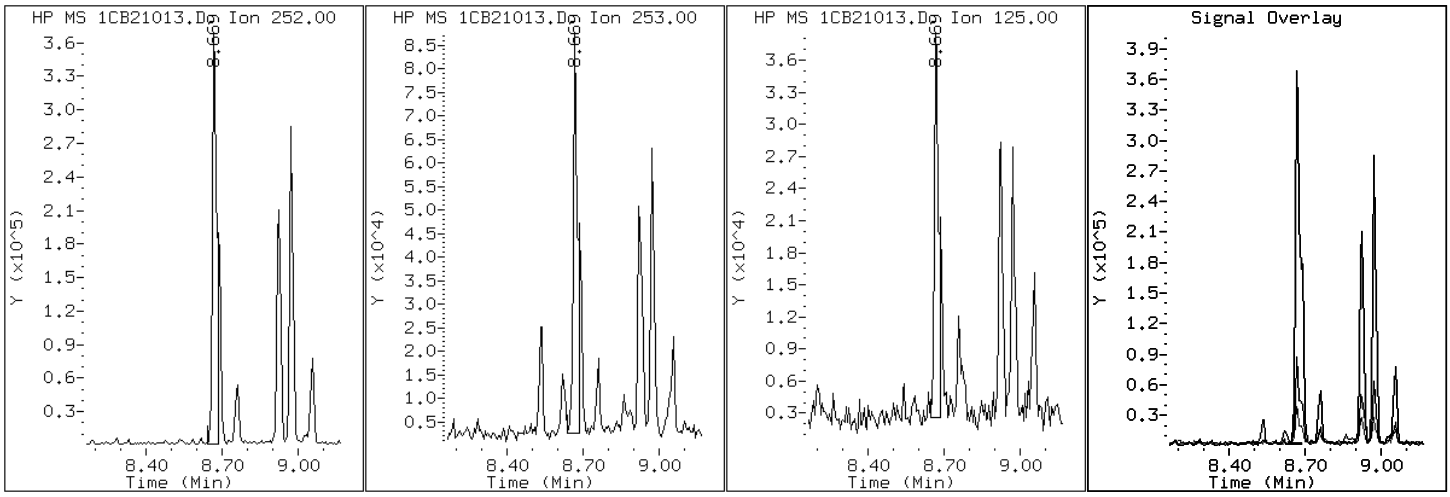
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

20 Benzo(b)fluoranthene



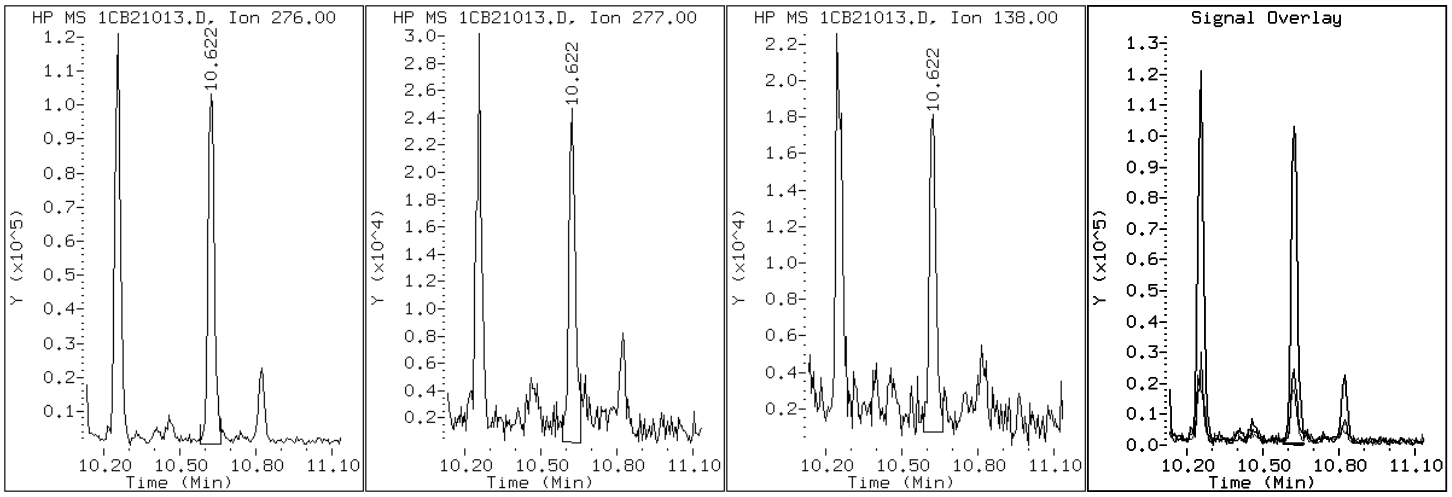
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

26 Benzo(g,h,i)perylene



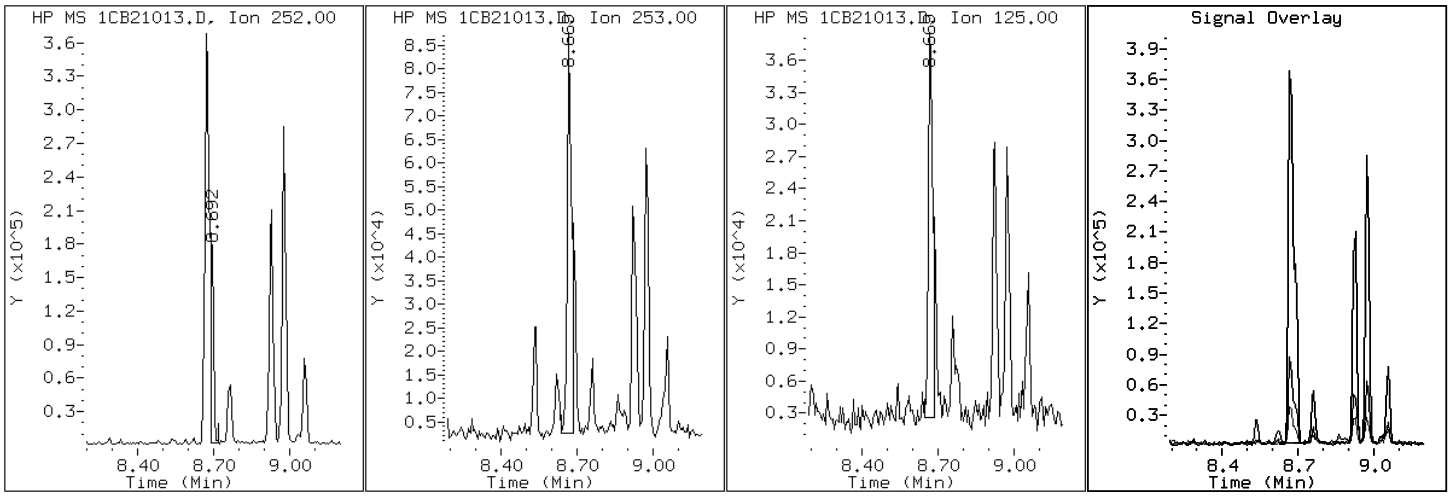
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

21 Benzo(k)fluoranthene



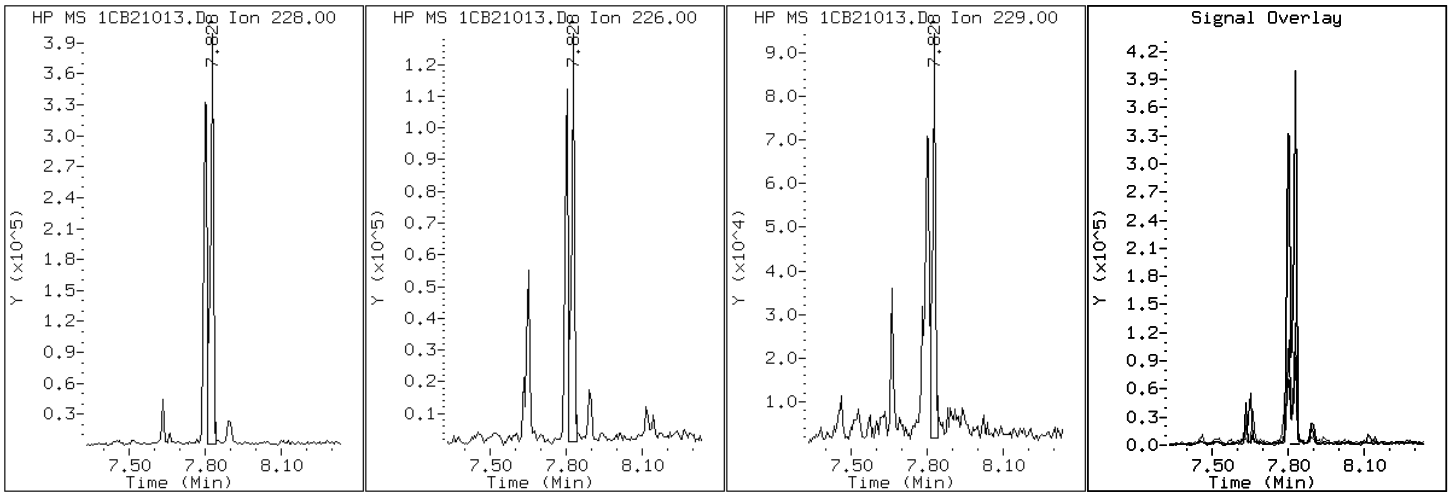
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

19 Chrysene



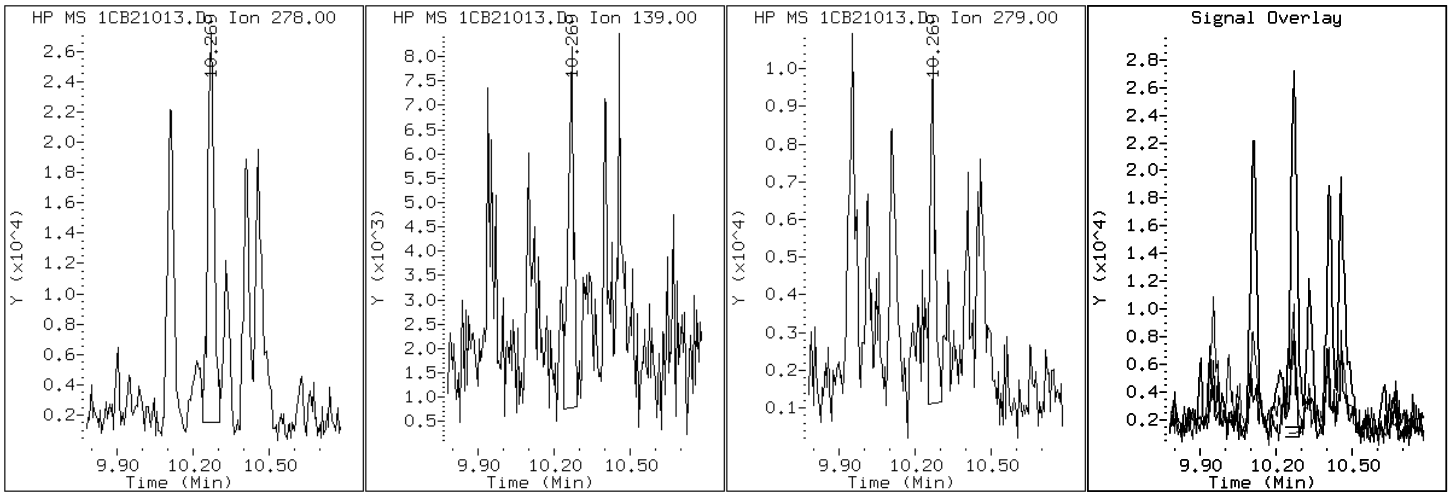
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

25 Dibenzo(a,h)anthracene



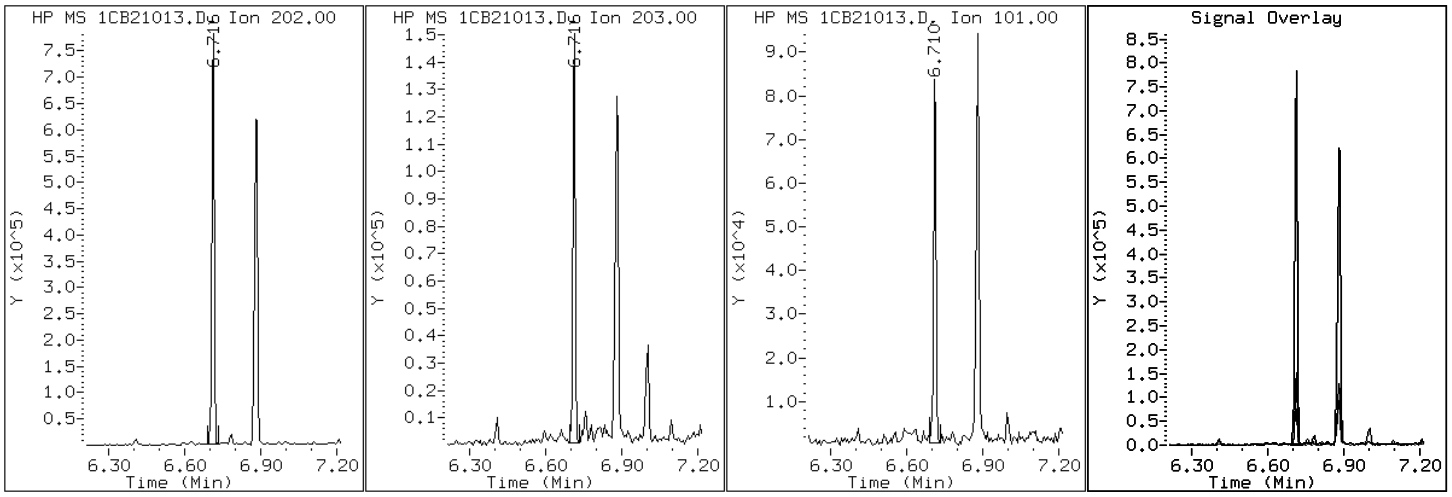
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

15 Fluoranthene



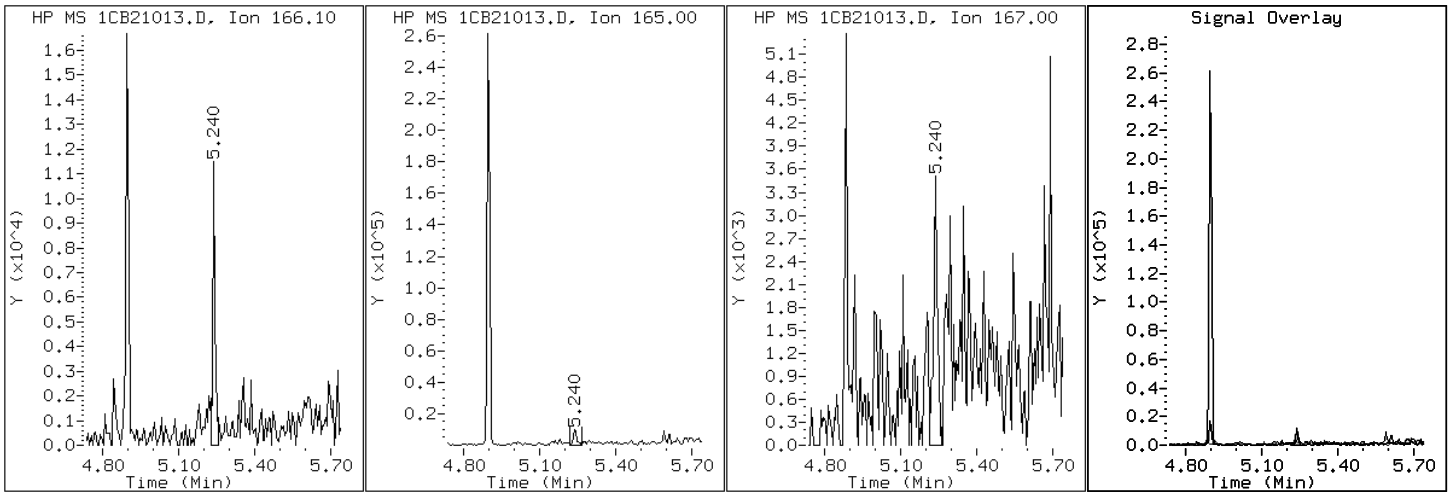
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

9 Fluorene



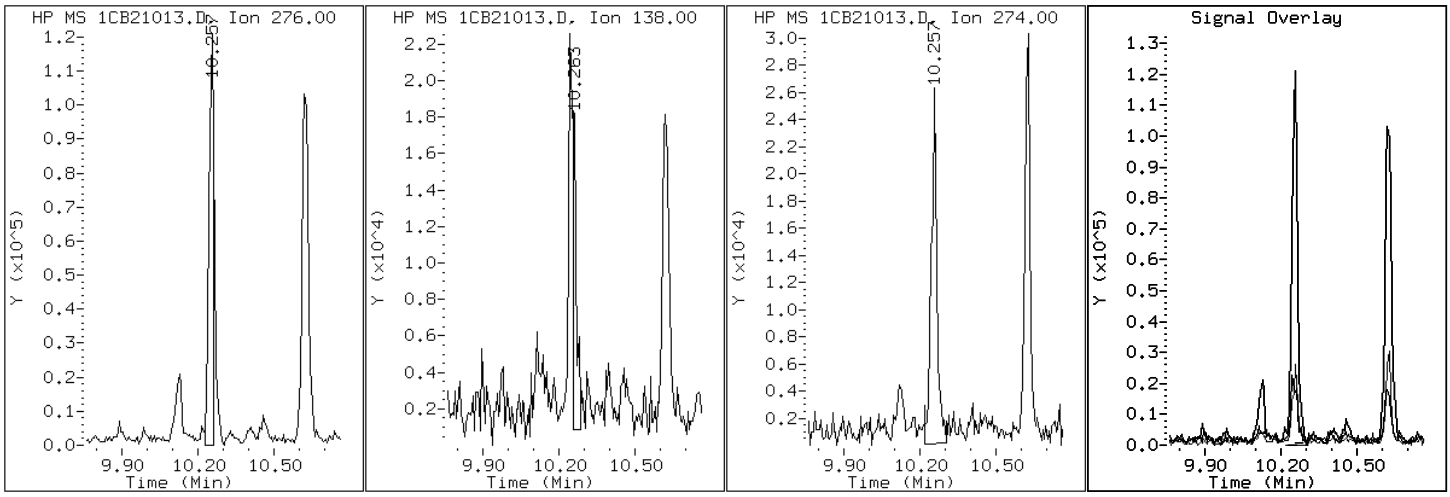
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

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



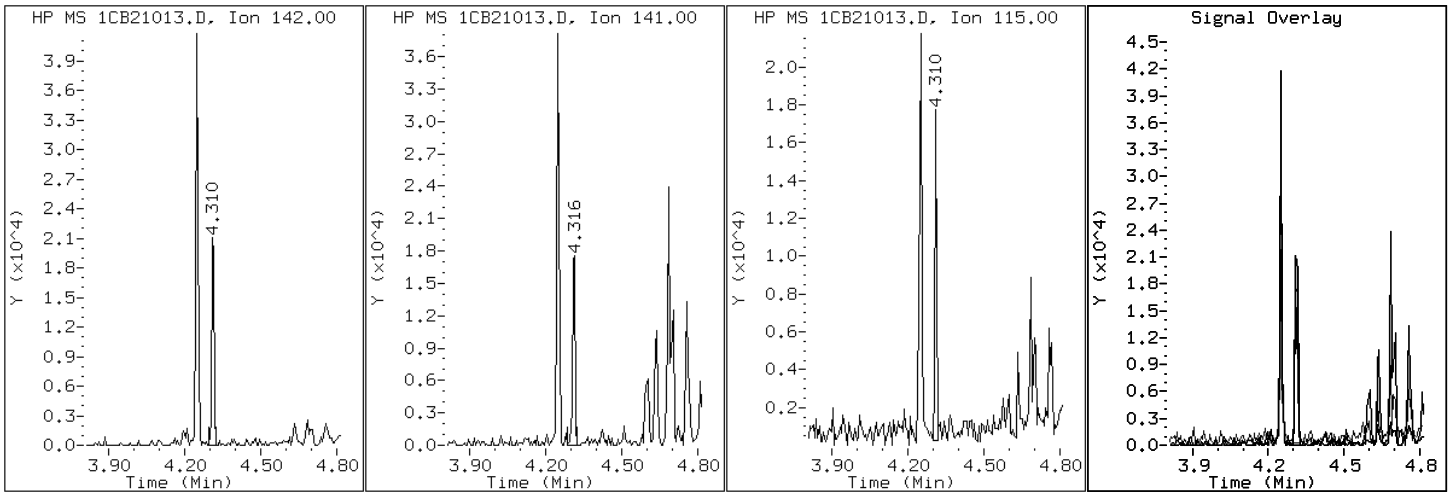
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

4 1-Methylnaphthalene



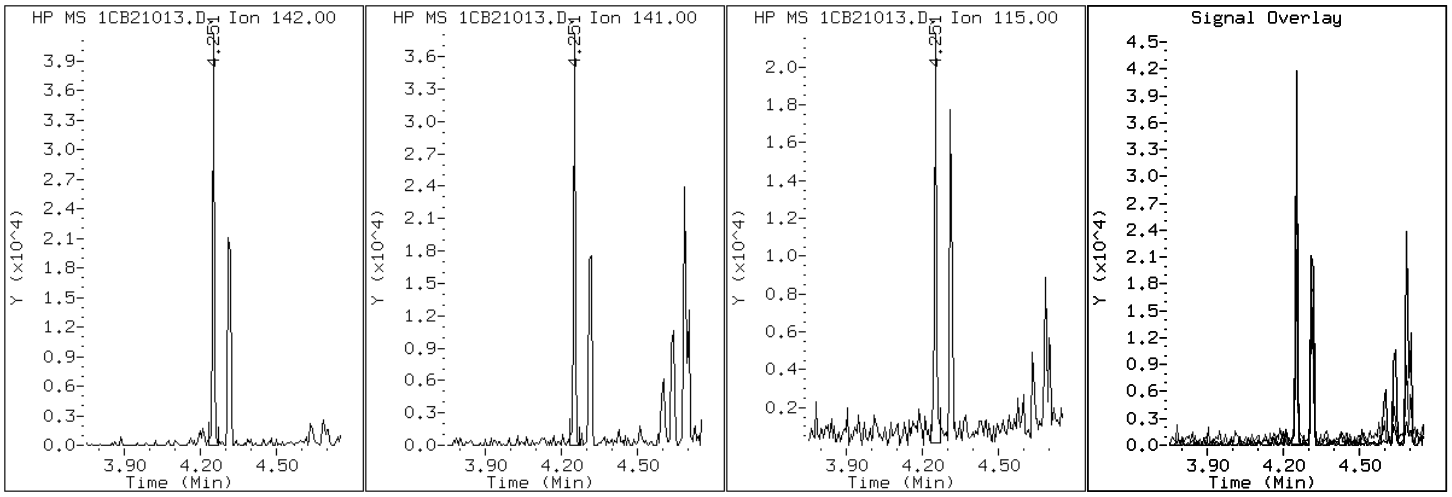
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

3 2-Methylnaphthalene



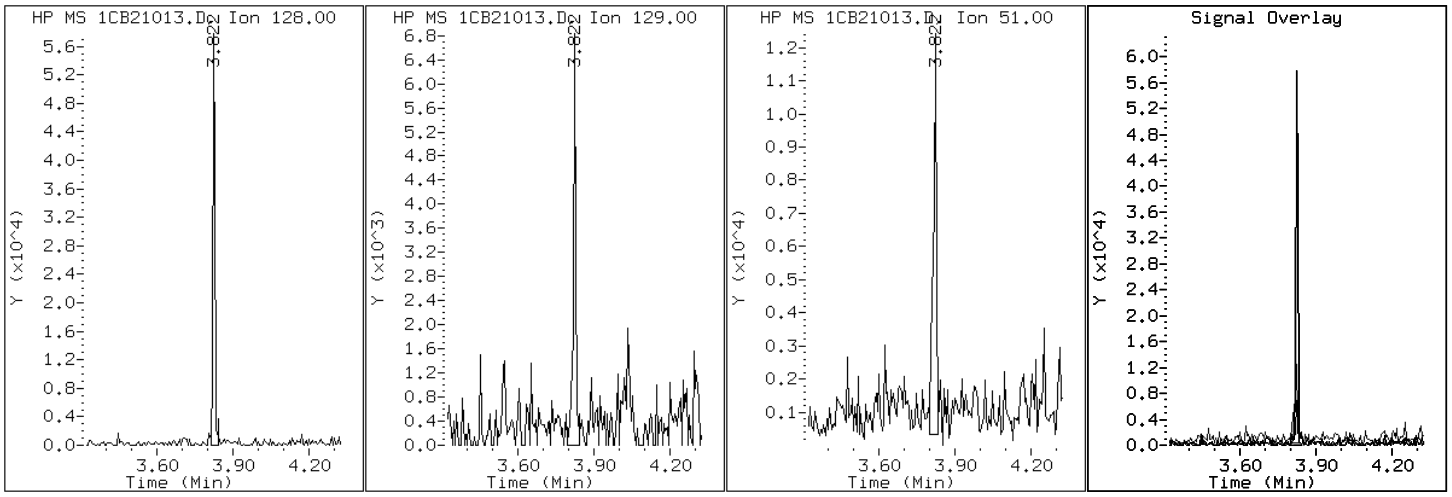
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

2 Naphthalene



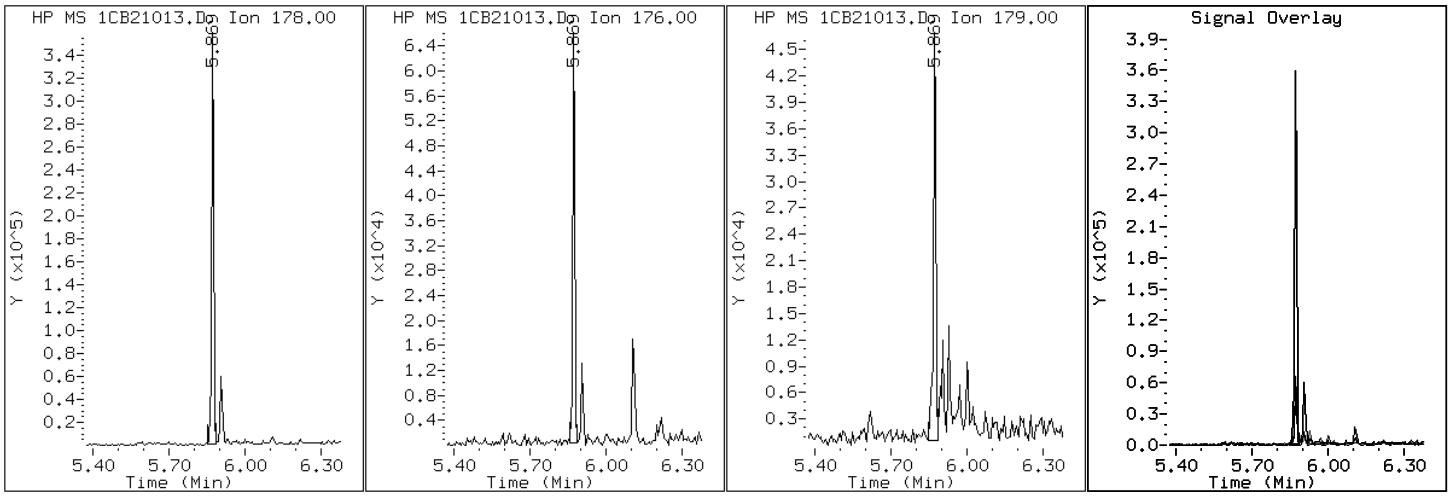
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

11 Phenanthrene



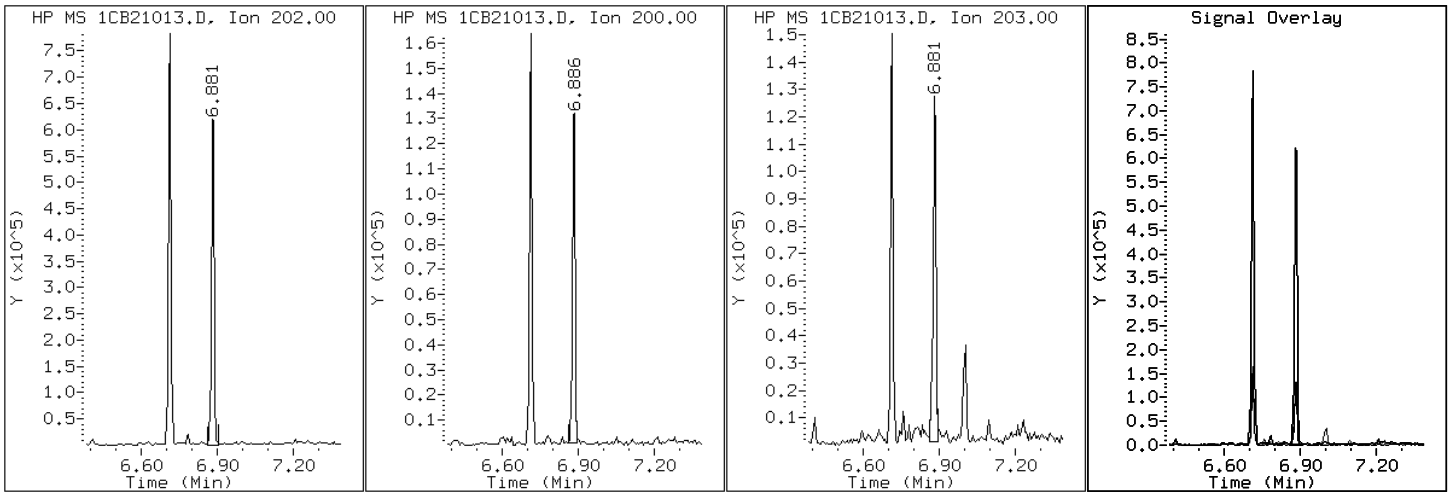
Data File: 1CB21013.D

Date: 21-FEB-2013 14:51

Client ID: CV0971RR-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-29-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21013.D
Inj. Date and Time: 21-FEB-2013 14:51
Instrument ID: BSMC5973.i
Client ID: CV0971RR-CS
Compound: 5 Acenaphthylene
CAS #: 208-96-8
Report Date: 02/21/2013

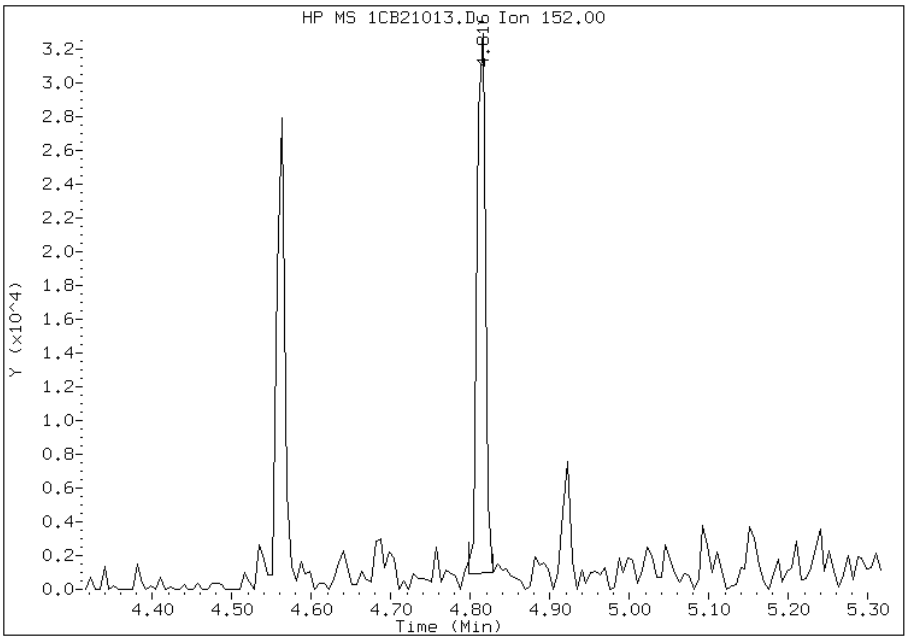
Processing Integration Results

RT: 4.82

Response: 23374

Amount: 0

Conc: 46



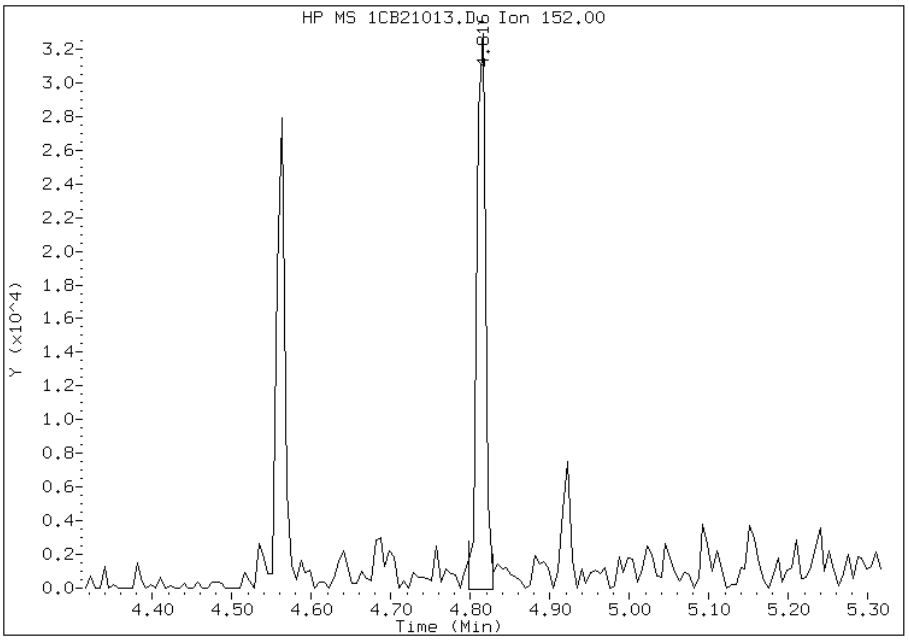
Manual Integration Results

RT: 4.82

Response: 25469

Amount: 0

Conc: 50



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21013.D
Inj. Date and Time: 21-FEB-2013 14:51
Instrument ID: BSMC5973.i
Client ID: CV0971RR-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

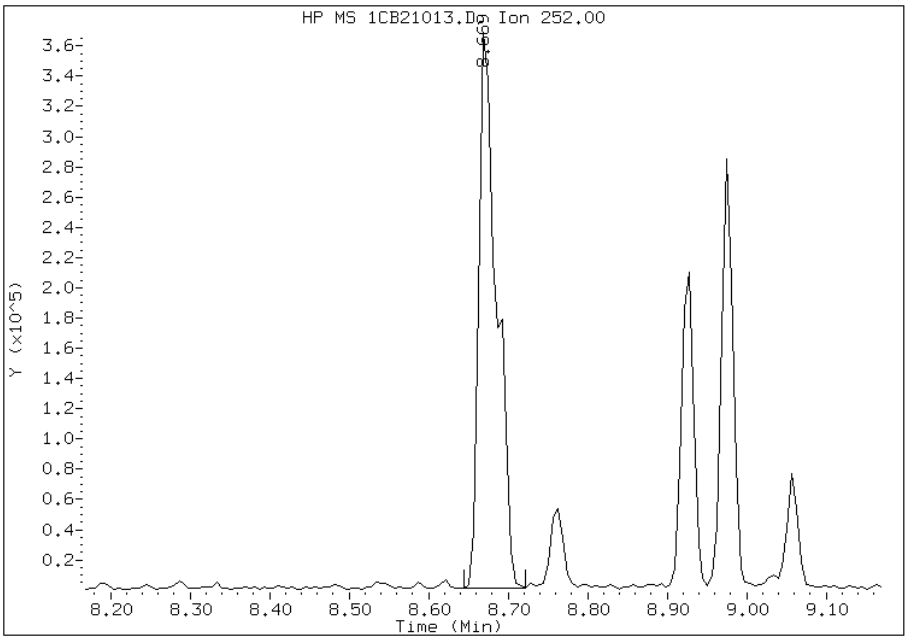
Processing Integration Results

RT: 8.67

Response: 578639

Amount: 10

Conc: 985



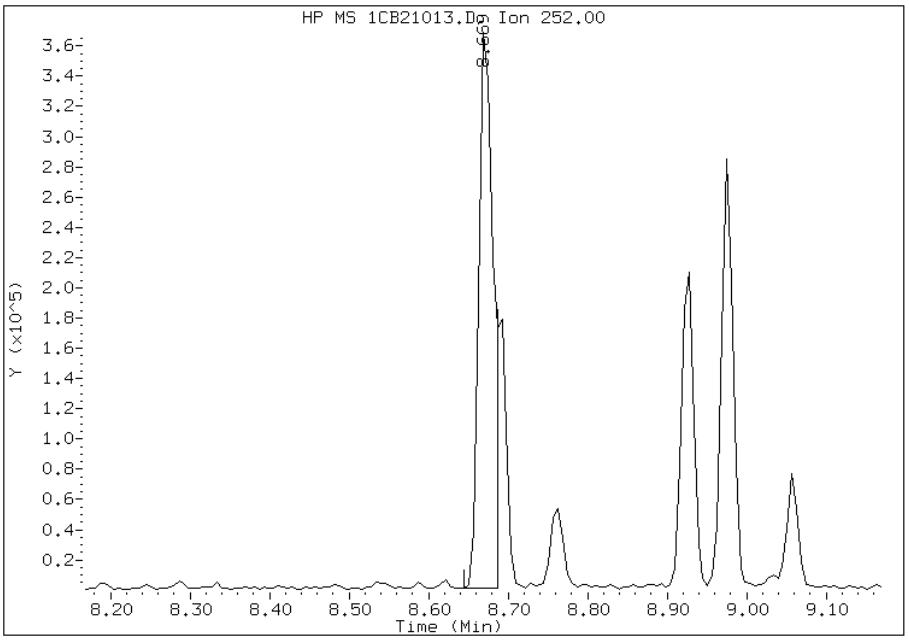
Manual Integration Results

RT: 8.67

Response: 467835

Amount: 8

Conc: 796



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB21013.D
Inj. Date and Time: 21-FEB-2013 14:51
Instrument ID: BSMC5973.i
Client ID: CV0971RR-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

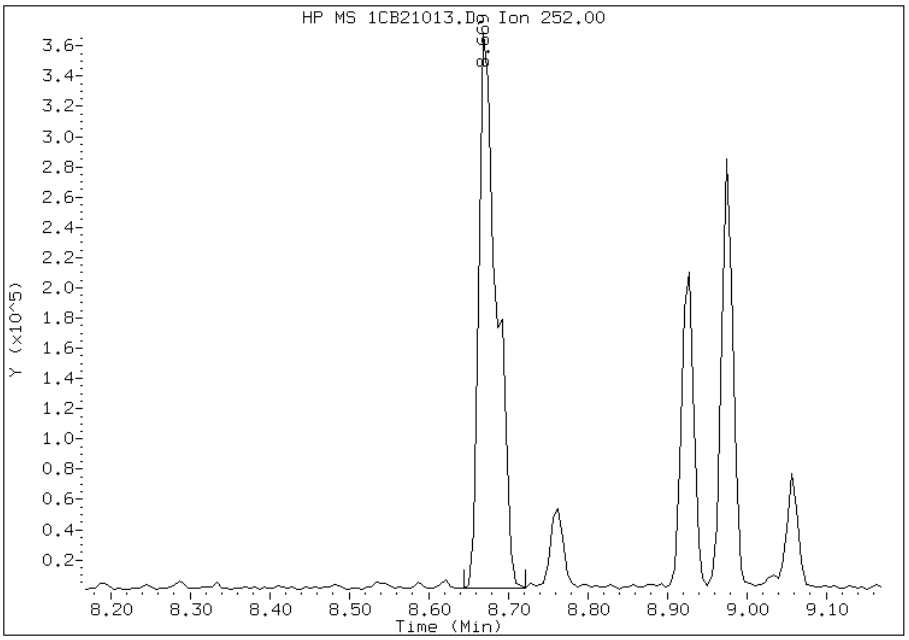
Processing Integration Results

RT: 8.67

Response: 578639

Amount: 9

Conc: 894



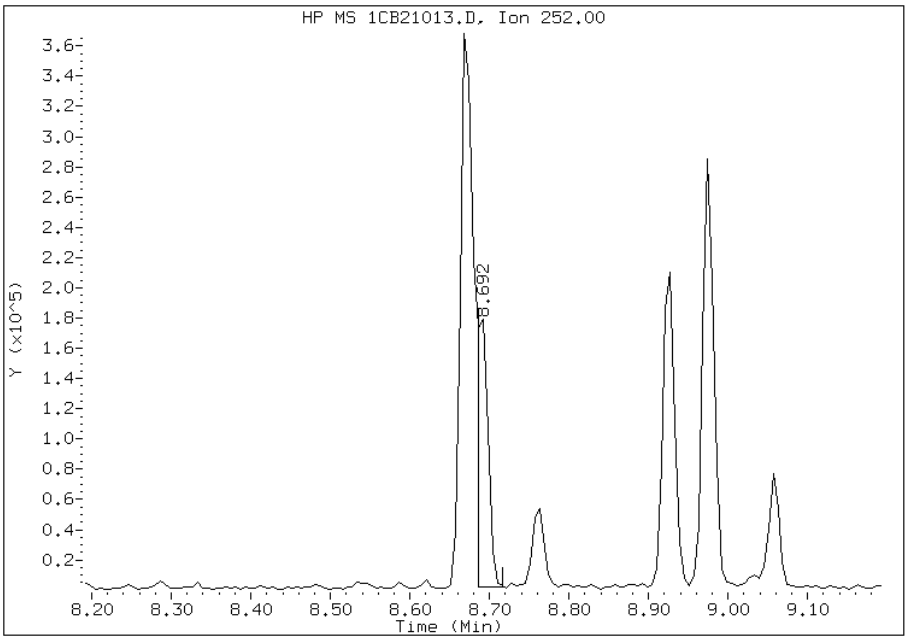
Manual Integration Results

RT: 8.69

Response: 168626

Amount: 3

Conc: 261



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21013.D
Inj. Date and Time: 21-FEB-2013 14:51
Instrument ID: BSMC5973.i
Client ID: CV0971RR-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

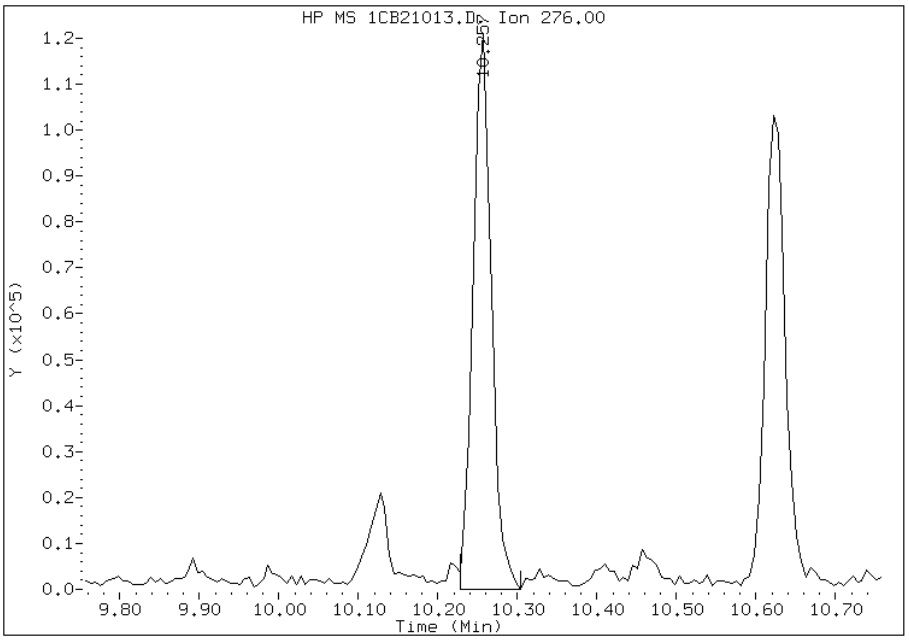
Processing Integration Results

RT: 10.26

Response: 191906

Amount: 4

Conc: 357



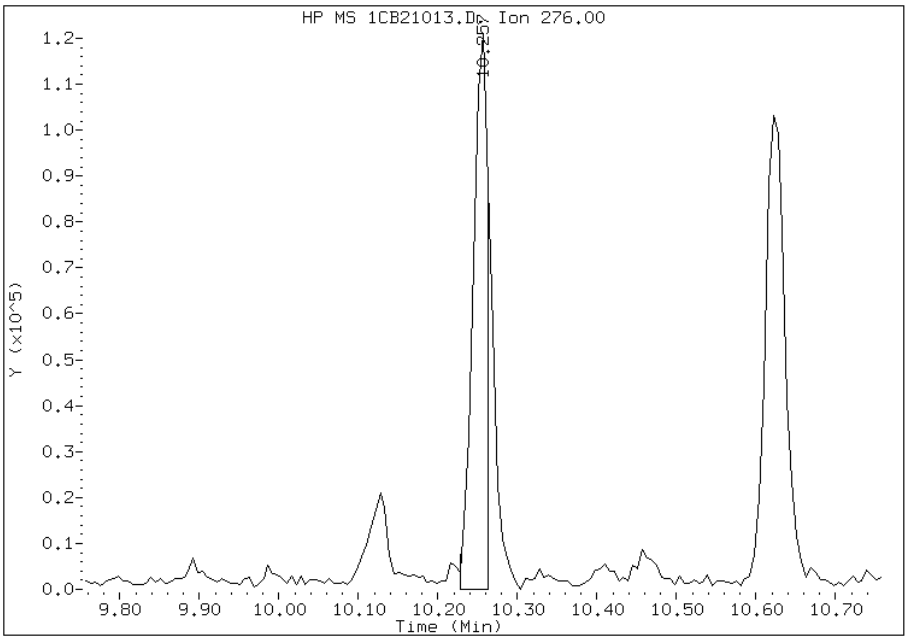
Manual Integration Results

RT: 10.26

Response: 155234

Amount: 3

Conc: 289



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971SS-CS | Lab Sample ID: 680-87496-30

Matrix: Solid | Lab File ID: 1CB21014.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:35

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.30(g) | Date Analyzed: 02/21/2013 15:09

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

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

% Moisture: 31.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	36	J	140	29
208-96-8	Acenaphthylene	130		57	7.1
120-12-7	Anthracene	110		12	6.0
56-55-3	Benzo[a]anthracene	620		11	5.6
50-32-8	Benzo[a]pyrene	730		15	7.4
205-99-2	Benzo[b]fluoranthene	1200		17	8.7
191-24-2	Benzo[g,h,i]perylene	540		29	6.3
207-08-9	Benzo[k]fluoranthene	380		11	5.1
218-01-9	Chrysene	780		13	6.4
53-70-3	Dibenz(a,h)anthracene	140		29	5.8
206-44-0	Fluoranthene	1200		29	5.7
86-73-7	Fluorene	41		29	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	490		29	10
90-12-0	1-Methylnaphthalene	220		57	6.3
91-57-6	2-Methylnaphthalene	280		57	10
91-20-3	Naphthalene	230		57	6.3
85-01-8	Phenanthrene	540		11	5.6
129-00-0	Pyrene	1100		29	5.3

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\1C022113.b\1CB21014.D
Lab Smp Id: 680-87496-A-30-A Client Smp ID: CV0971SS-CS
Inj Date : 21-FEB-2013 15:09
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-30-a
Misc Info : 680-87496-A-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	15.300	Weight Extracted
M	31.229	% 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	3.810	3.810	(1.000)	1624105	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1242792	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2294085	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	296106	8.80912	837.2082
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	2630014	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2518909	40.0000	
2 Naphthalene	128	3.822	3.821	(1.003)	102881	2.39054	227.1944
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	83564	2.98619	283.8041
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	58771	2.30922	219.4656
5 Acenaphthylene	152	4.816	4.815	(0.983)	67410	1.36337	129.5735
7 Acenaphthene	154	4.921	4.921	(1.005)	11704	0.37742	35.8698(M)
9 Fluorene	166	5.239	5.239	(1.070)	17261	0.43362	41.2110
11 Phenanthrene	178	5.868	5.874	(1.002)	387403	5.65743	537.6753
12 Anthracene	178	5.904	5.904	(1.008)	69884	1.13272	107.6527

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	49967	0.93239	88.6136
15 Fluoranthene	202	6.715	6.715	(1.147)	836272	12.4982	1187.8139
16 Pyrene	202	6.886	6.886	(0.882)	806178	11.5140	1094.2742
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	474352	6.54042	621.5936
19 Chrysene	228	7.827	7.833	(1.002)	615750	8.21923	781.1460
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	810472	13.1239	1247.2801(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	274568	4.03575	383.5525(QM)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	453388	7.71544	733.2661
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	291319	5.16145	490.5380(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	78704	1.47870	140.5337
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	324272	5.65593	537.5327

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB21014.D

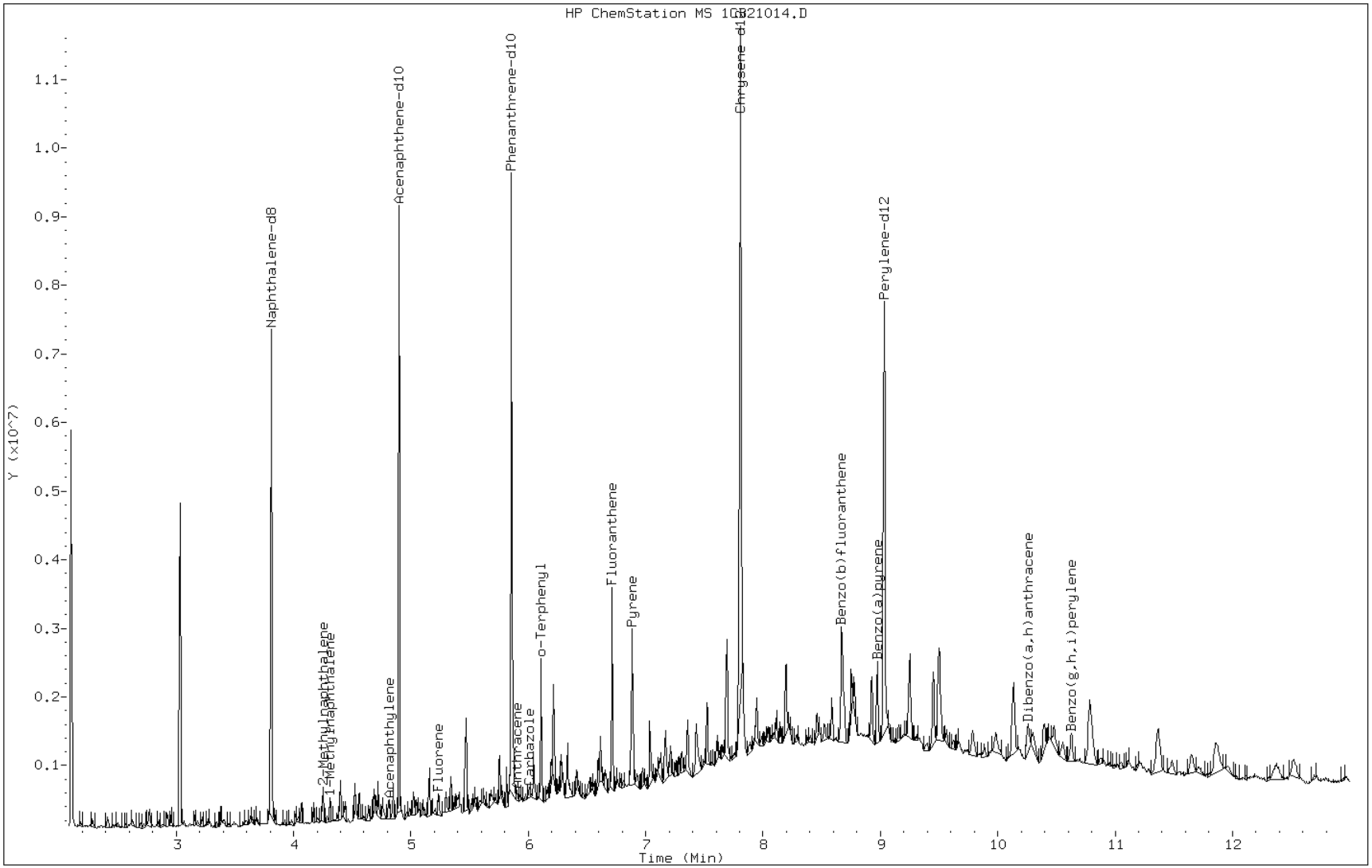
Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a

Operator: SCC



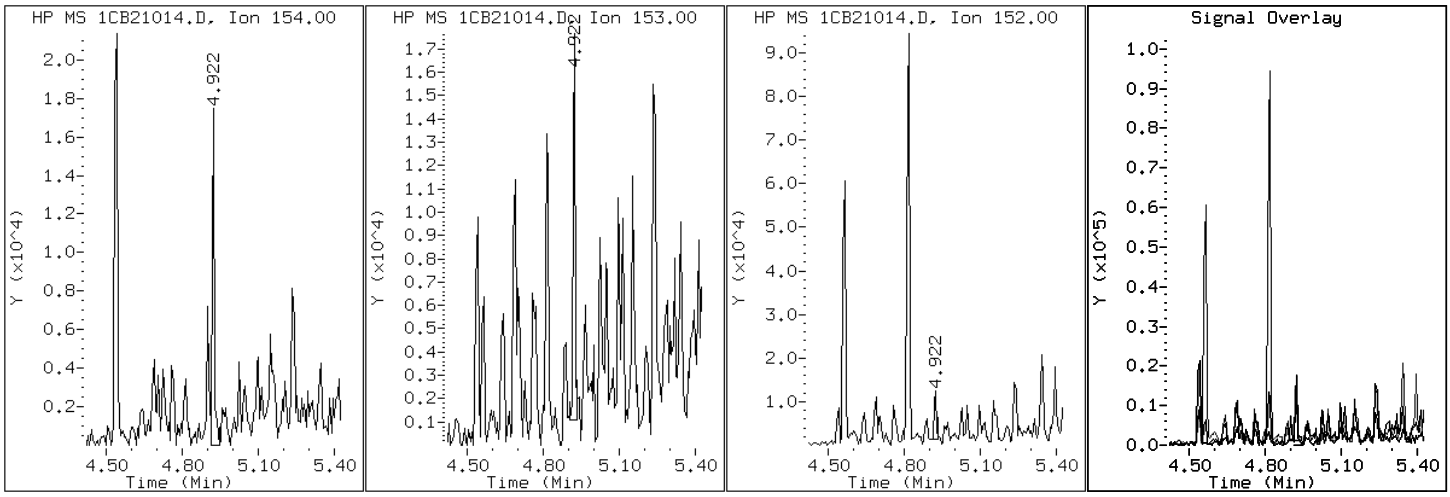
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

7 Acenaphthene



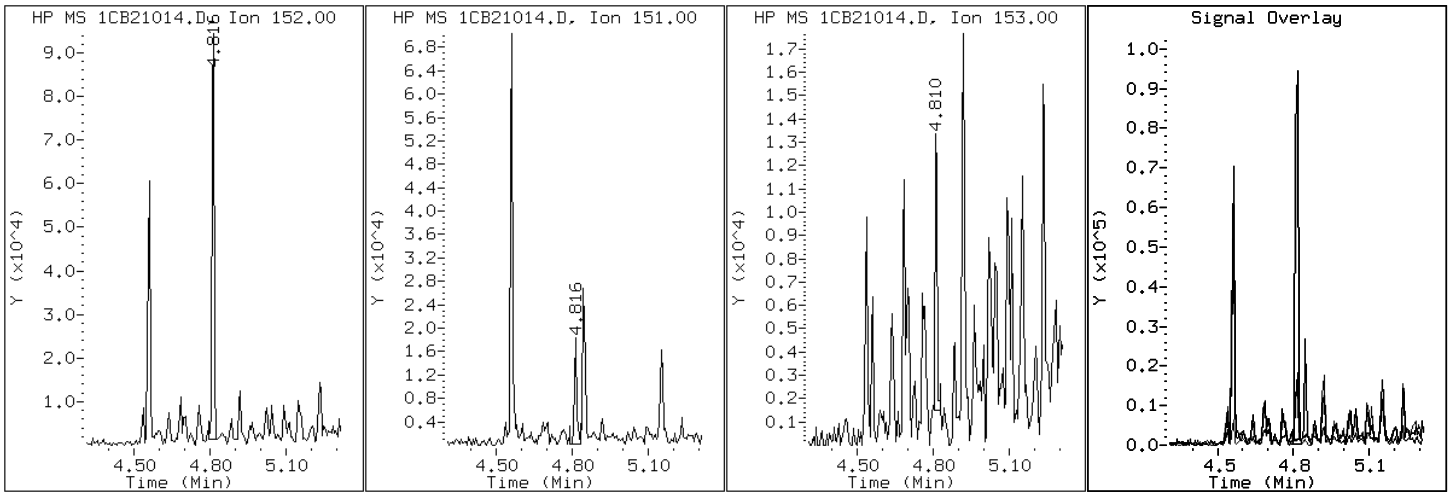
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

5 Acenaphthylene



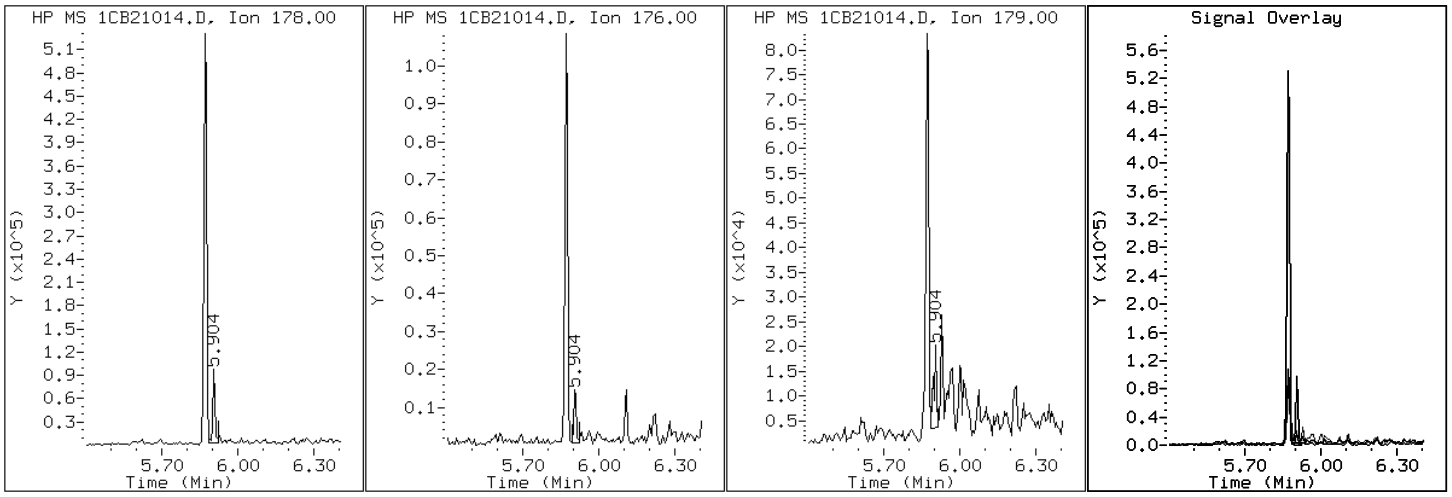
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

12 Anthracene



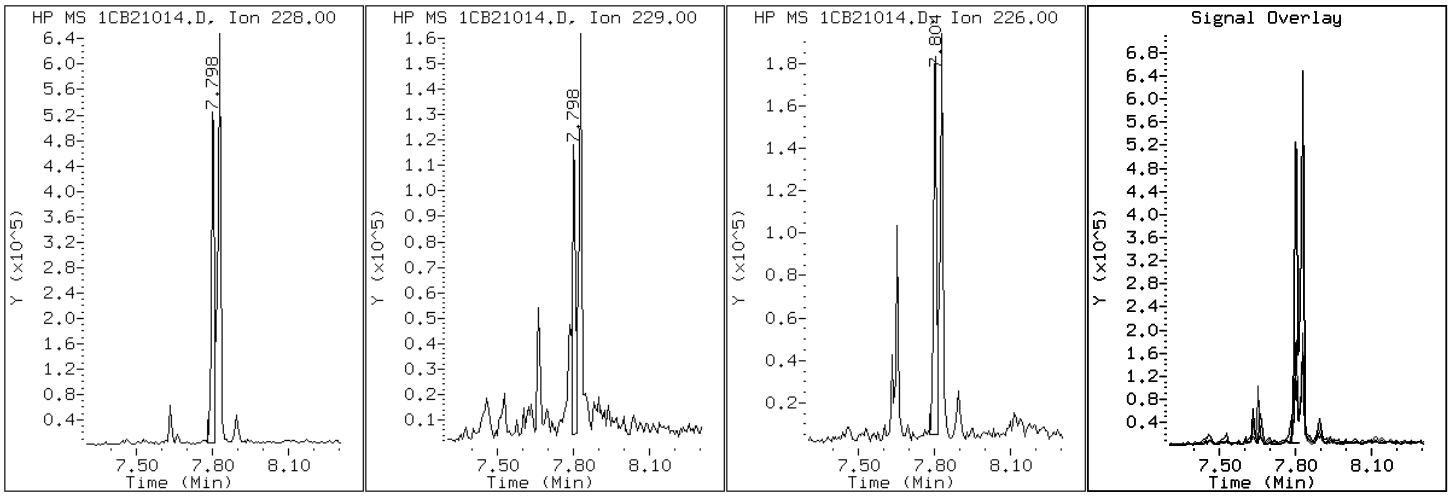
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

17 Benzo(a)anthracene



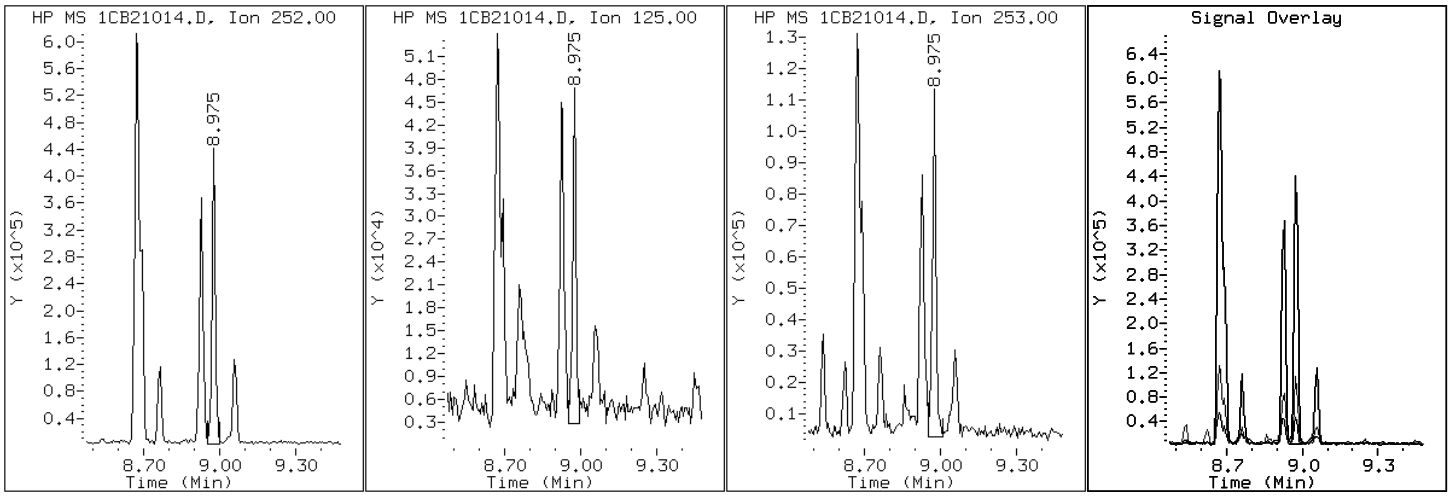
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

22 Benzo(a)pyrene



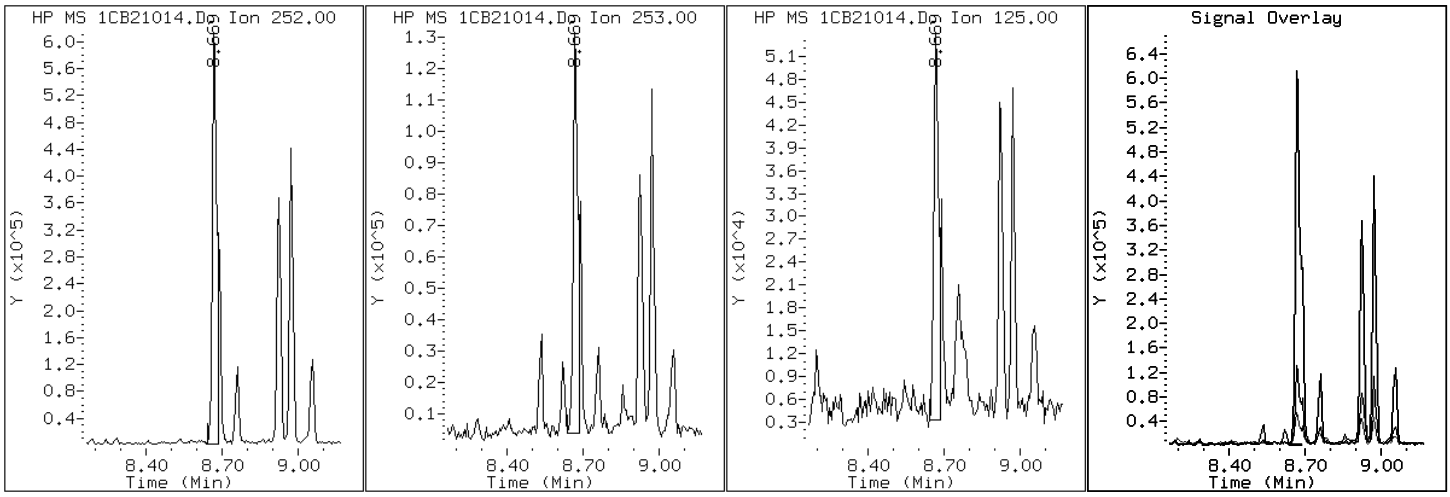
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

20 Benzo(b)fluoranthene



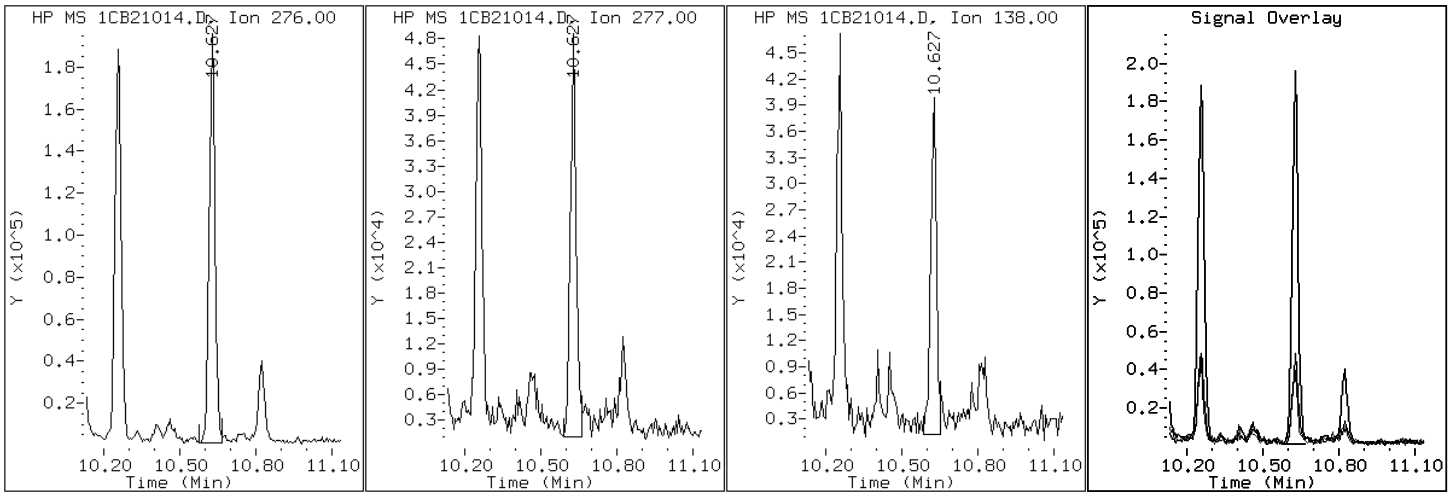
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

26 Benzo(g,h,i)perylene



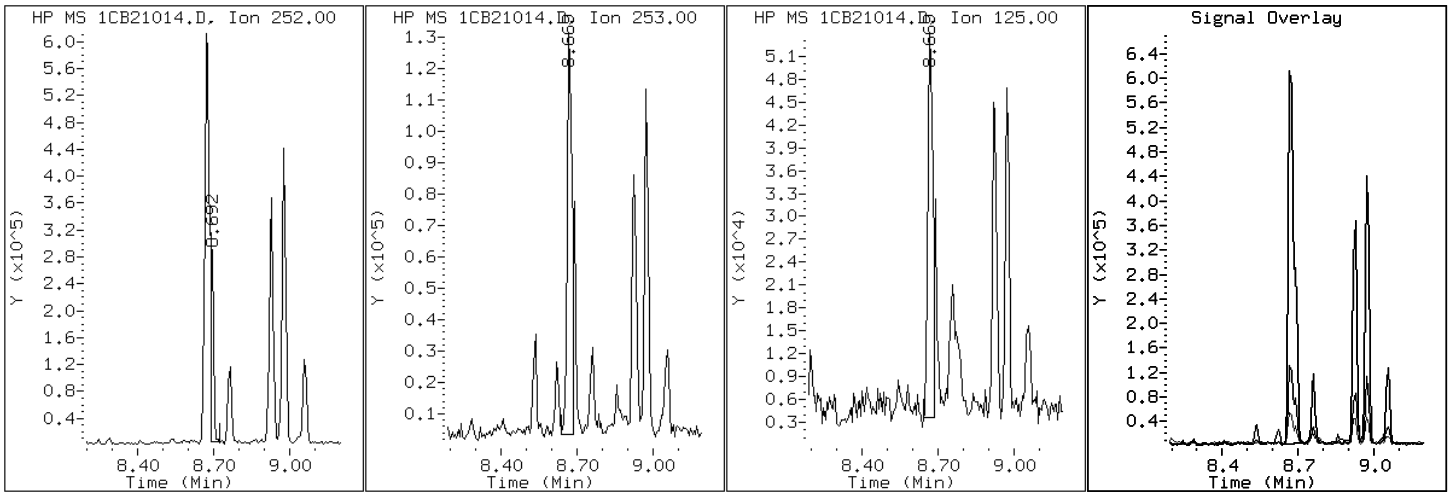
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

21 Benzo(k)fluoranthene



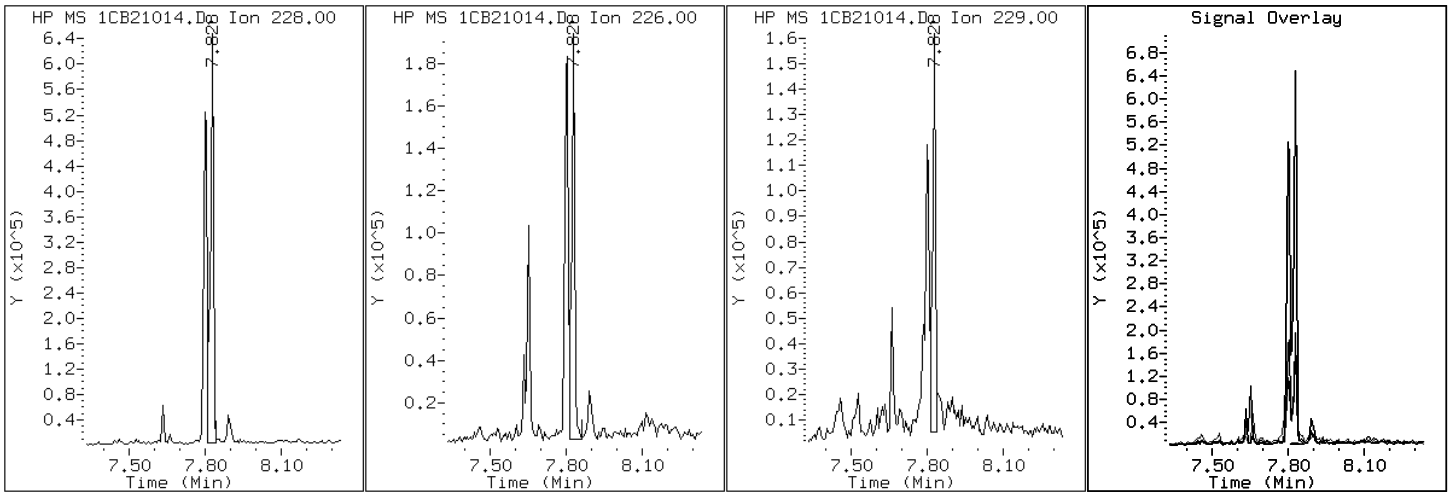
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

19 Chrysene



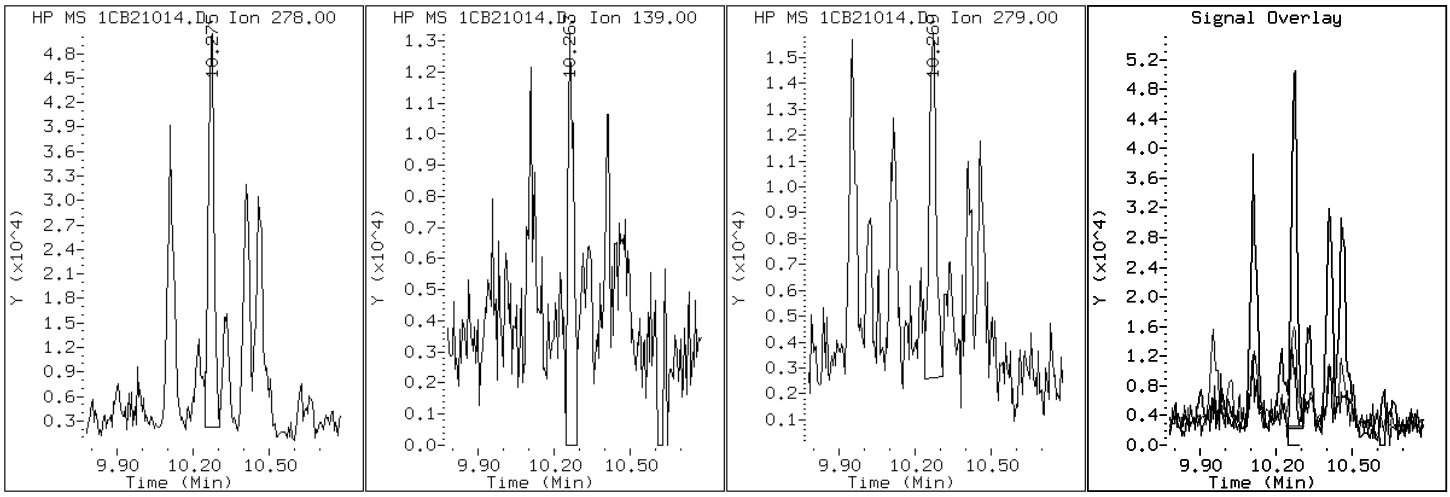
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

25 Dibenzo(a,h)anthracene



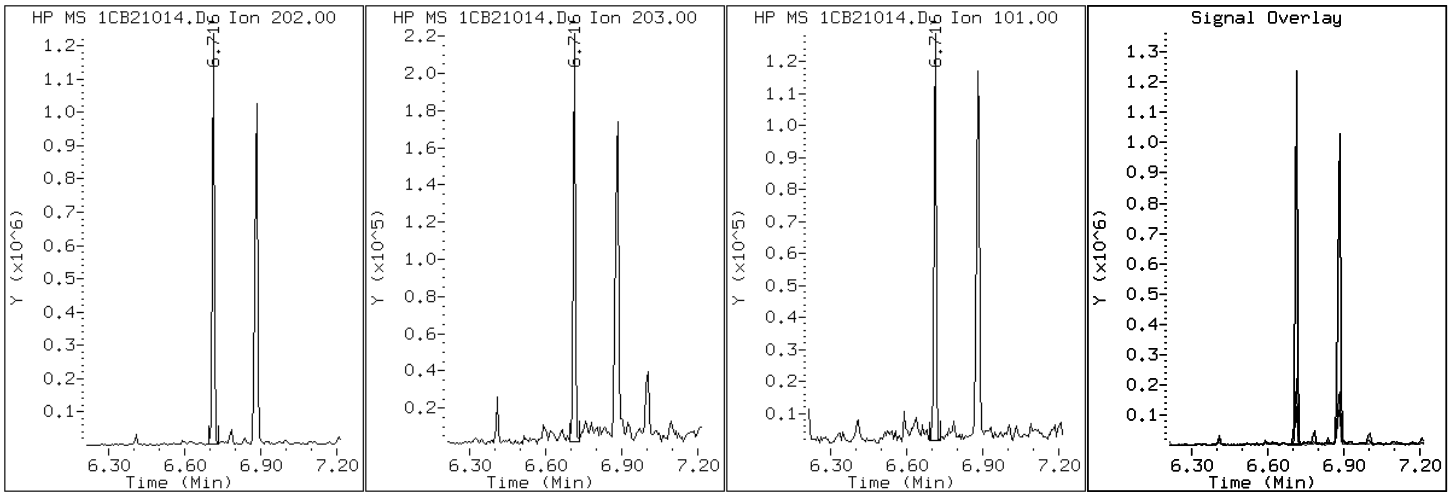
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

15 Fluoranthene



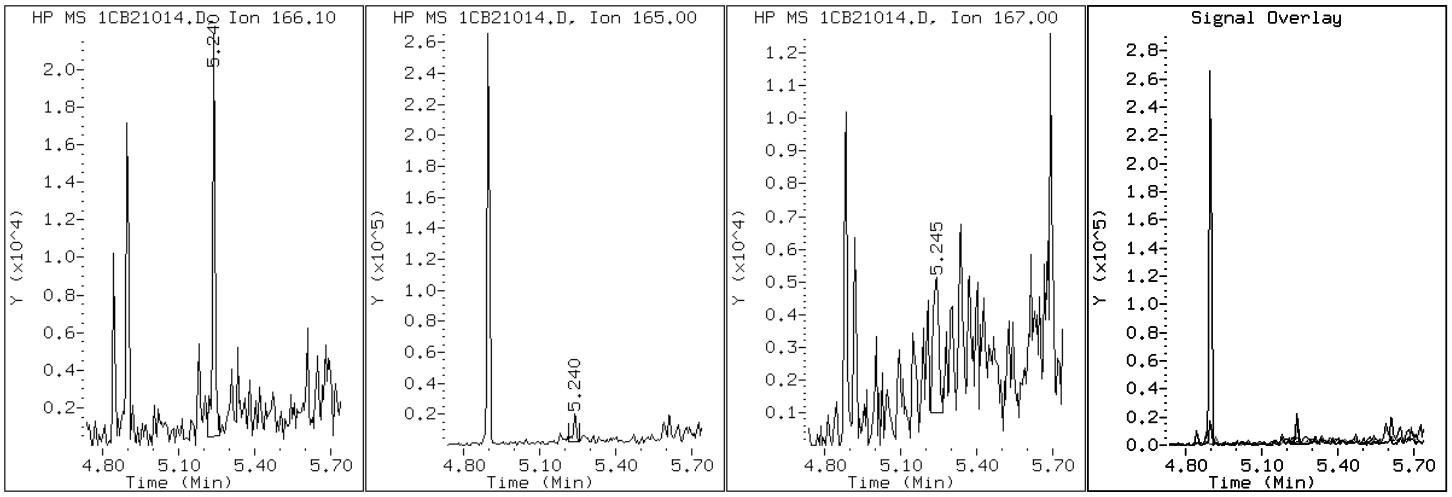
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

9 Fluorene



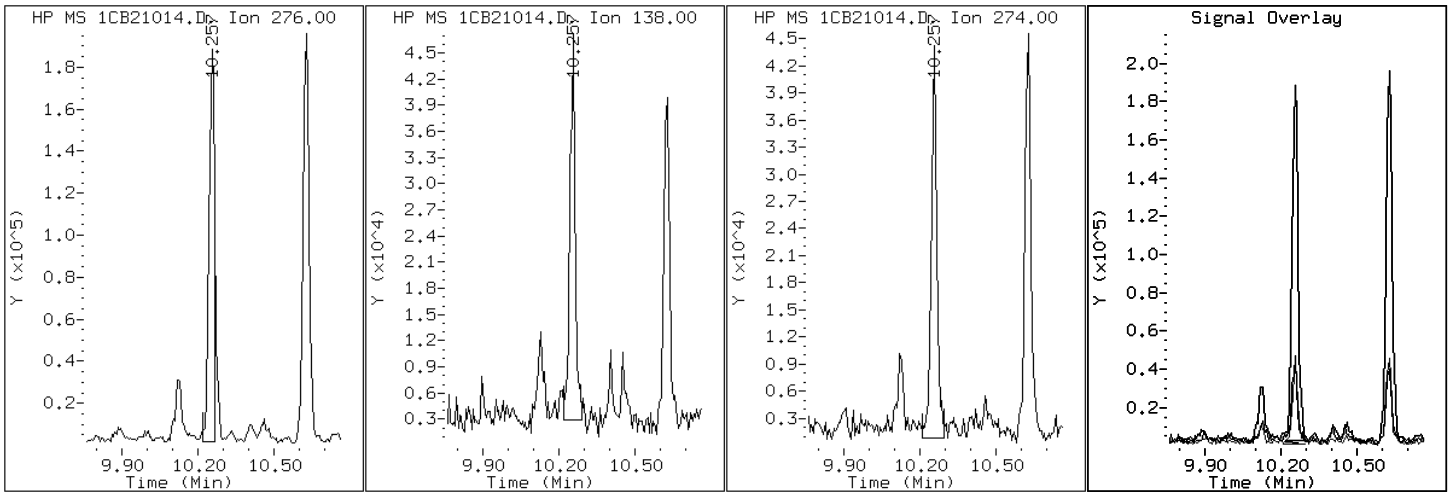
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

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



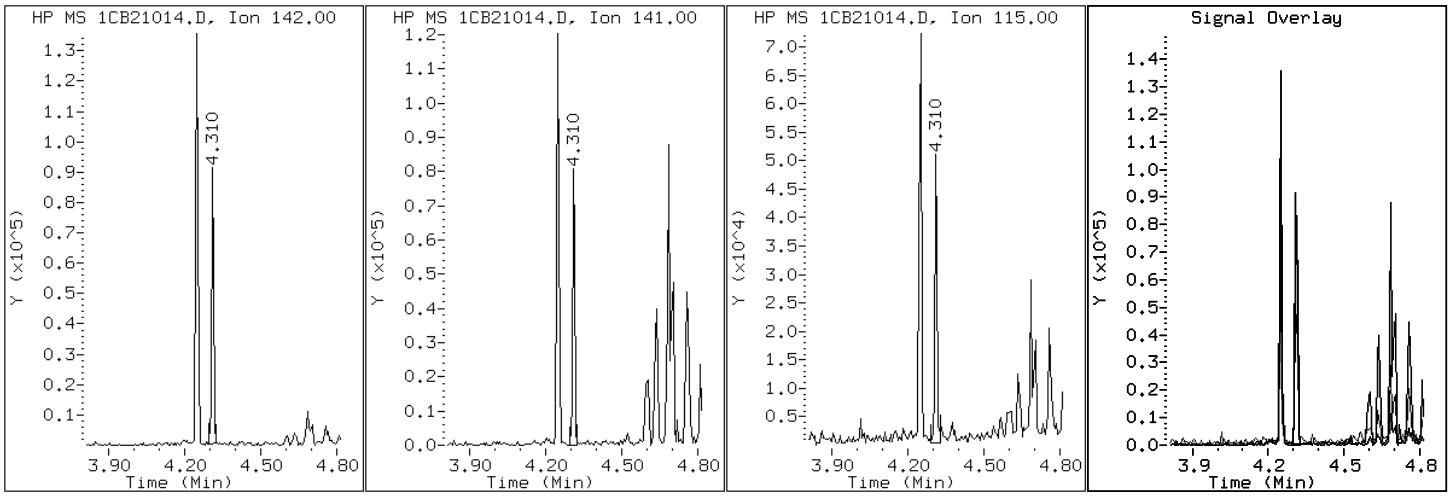
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

4 1-Methylnaphthalene



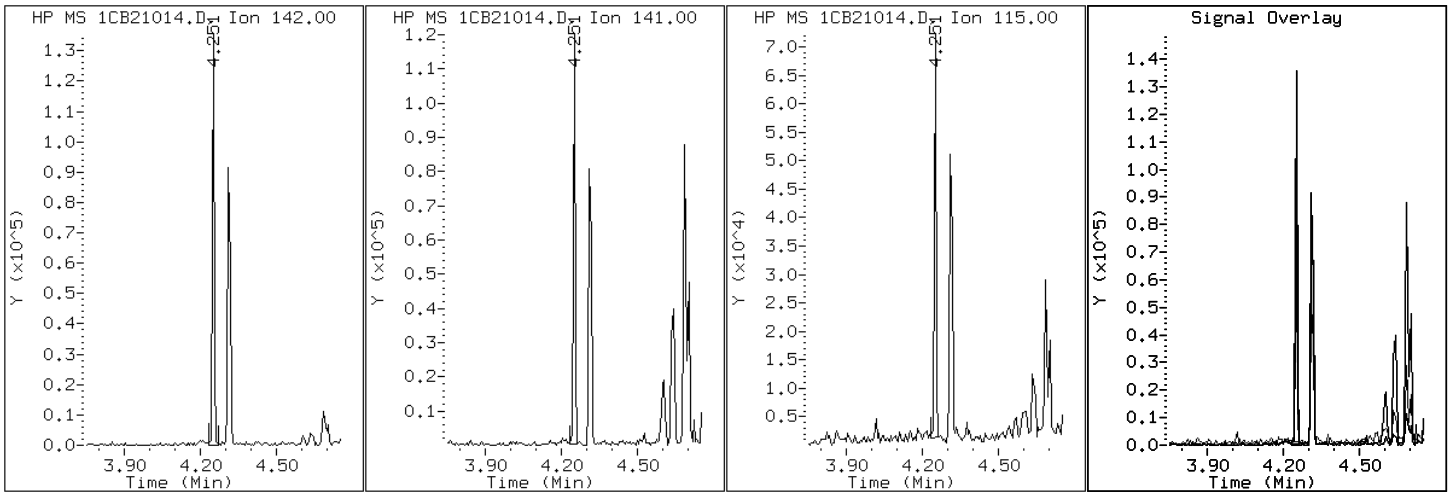
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

3 2-Methylnaphthalene



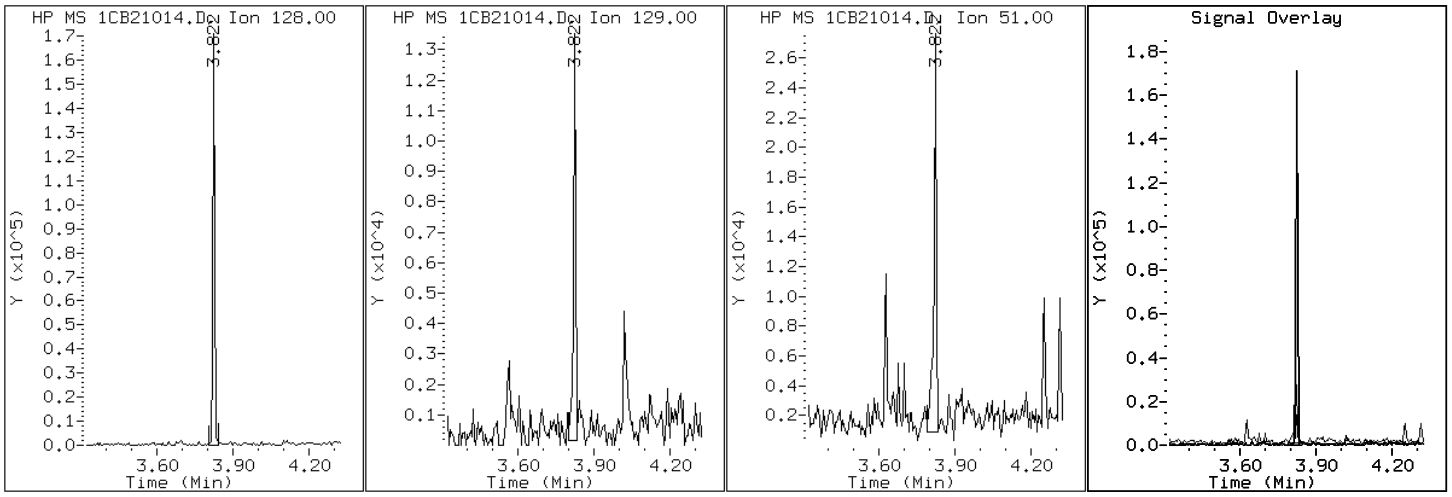
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

2 Naphthalene



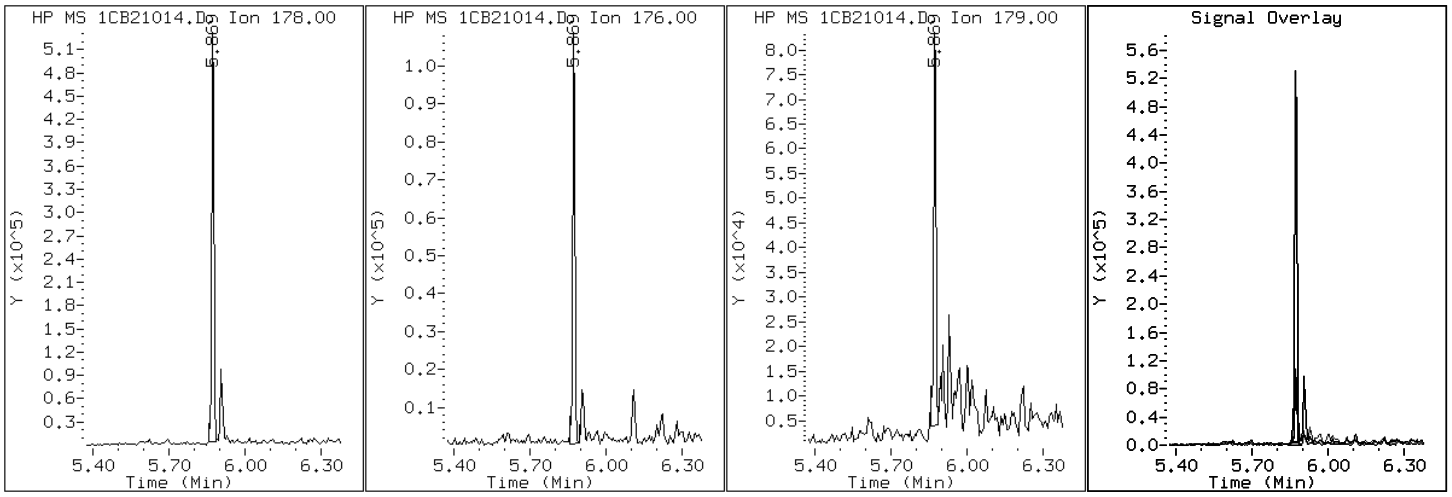
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

11 Phenanthrene



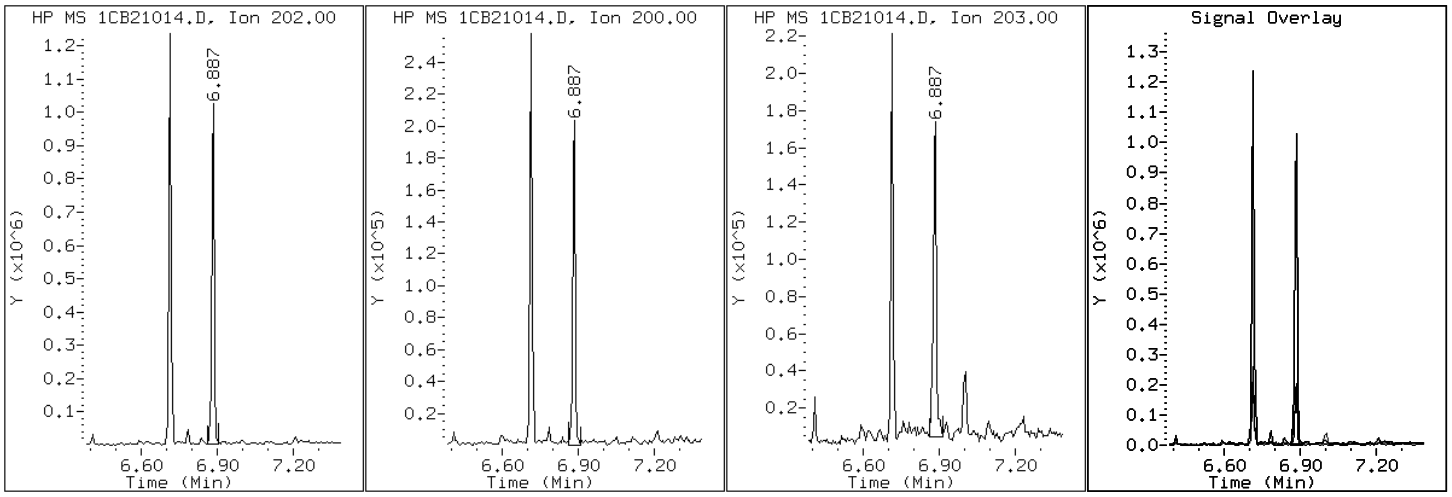
Data File: 1CB21014.D

Date: 21-FEB-2013 15:09

Client ID: CV0971SS-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-30-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21014.D
Inj. Date and Time: 21-FEB-2013 15:09
Instrument ID: BSMC5973.i
Client ID: CV0971SS-CS
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 02/21/2013

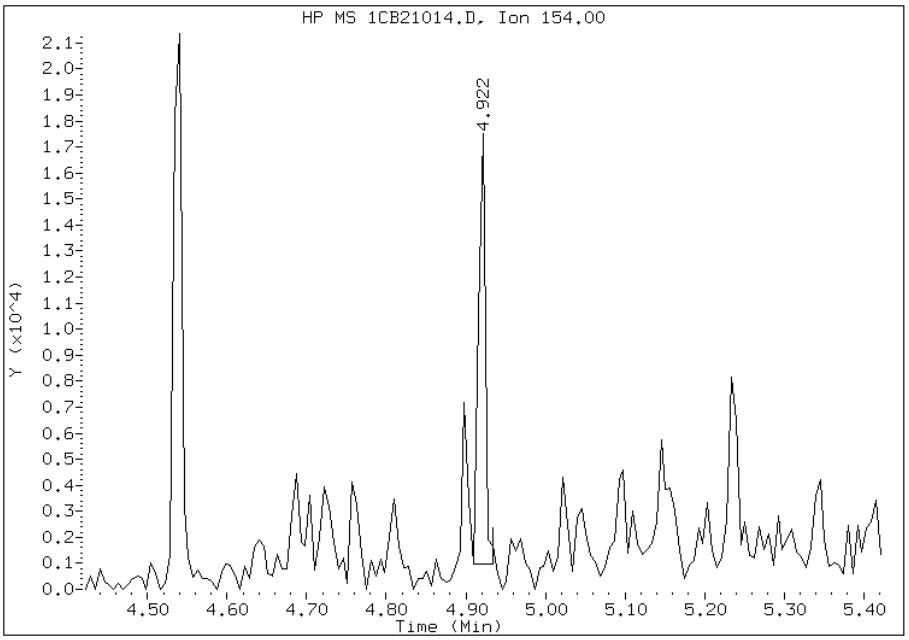
Processing Integration Results

RT: 4.92

Response: 9817

Amount: 0

Conc: 30



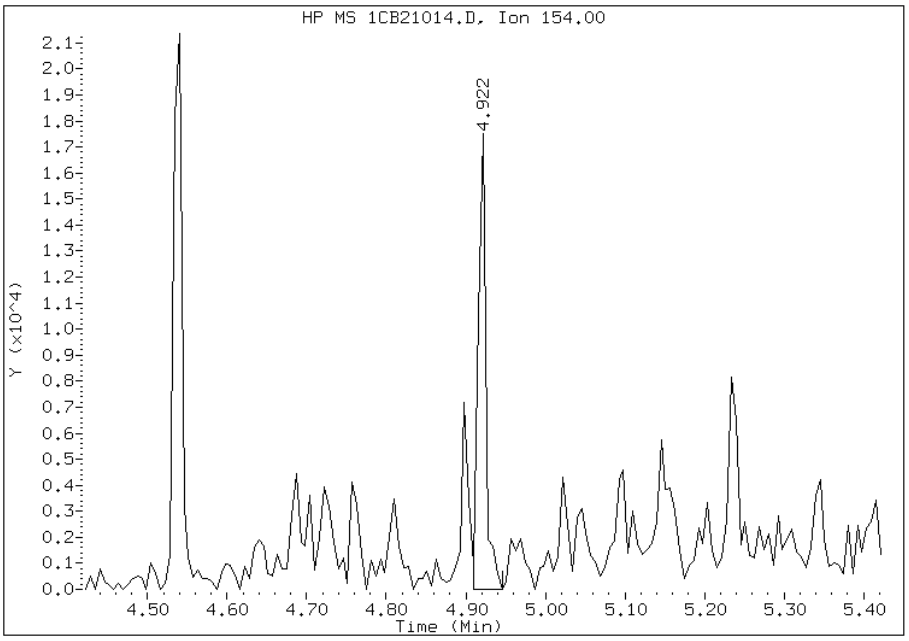
Manual Integration Results

RT: 4.92

Response: 11704

Amount: 0

Conc: 36



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21014.D
Inj. Date and Time: 21-FEB-2013 15:09
Instrument ID: BSMC5973.i
Client ID: CV0971SS-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

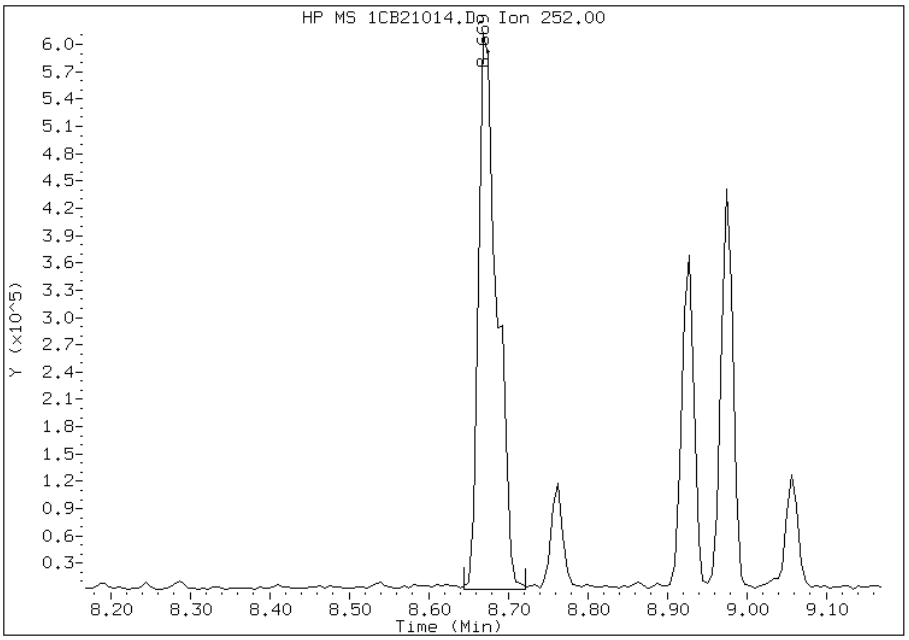
Processing Integration Results

RT: 8.67

Response: 990745

Amount: 16

Conc: 1525



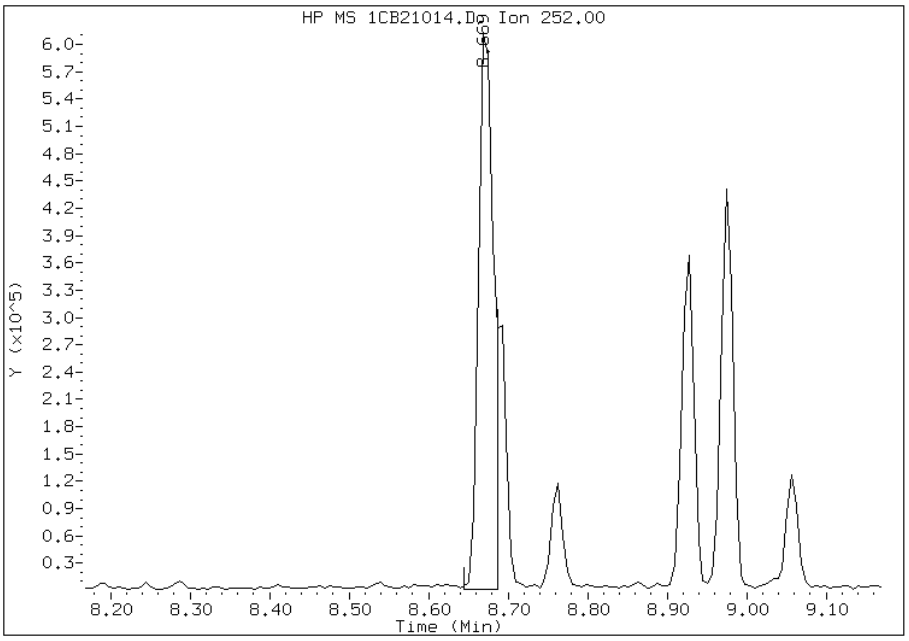
Manual Integration Results

RT: 8.67

Response: 810472

Amount: 13

Conc: 1247



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB21014.D
Inj. Date and Time: 21-FEB-2013 15:09
Instrument ID: BSMC5973.i
Client ID: CV0971SS-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

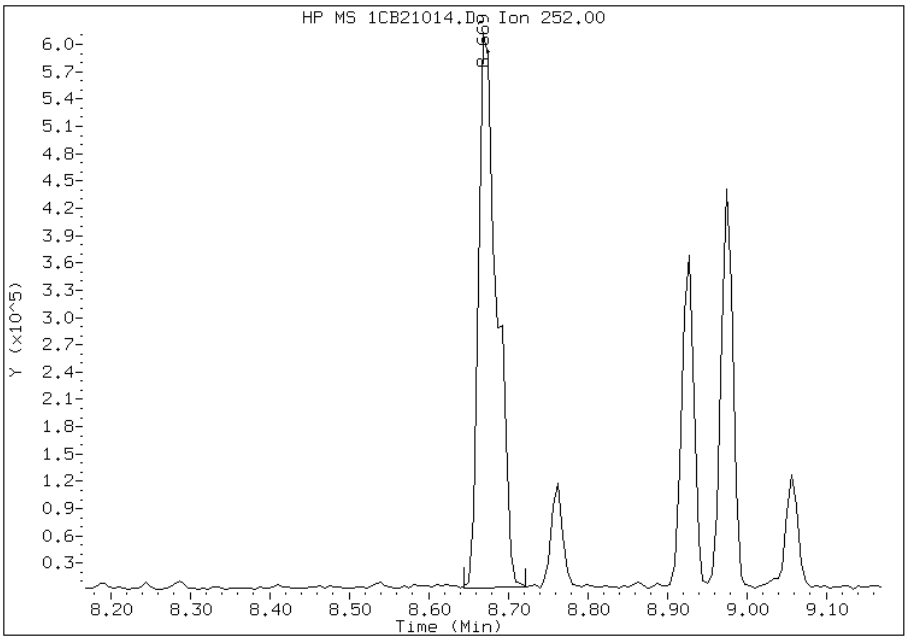
Processing Integration Results

RT: 8.67

Response: 982261

Amount: 14

Conc: 1372



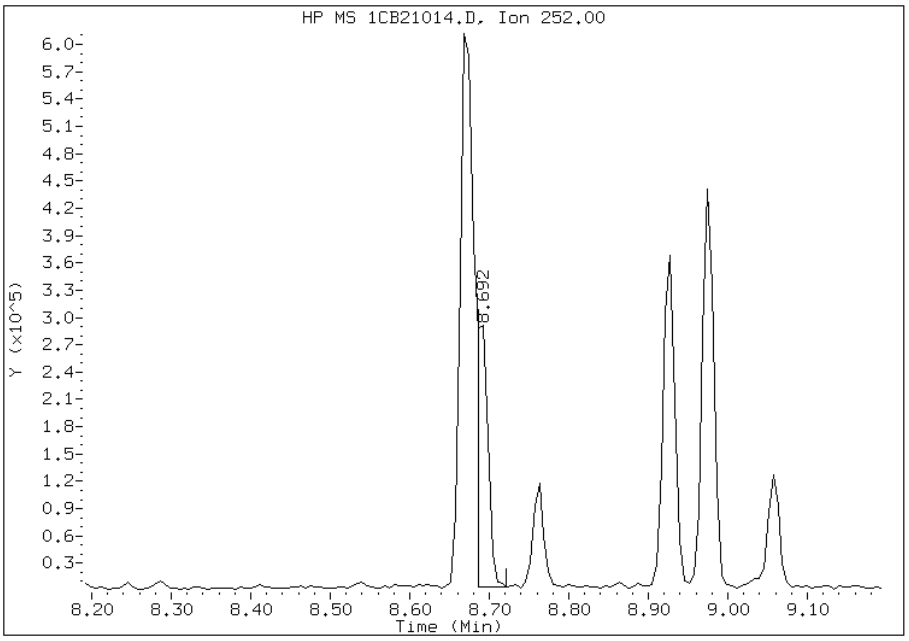
Manual Integration Results

RT: 8.69

Response: 274568

Amount: 4

Conc: 384



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21014.D
Inj. Date and Time: 21-FEB-2013 15:09
Instrument ID: BSMC5973.i
Client ID: CV0971SS-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

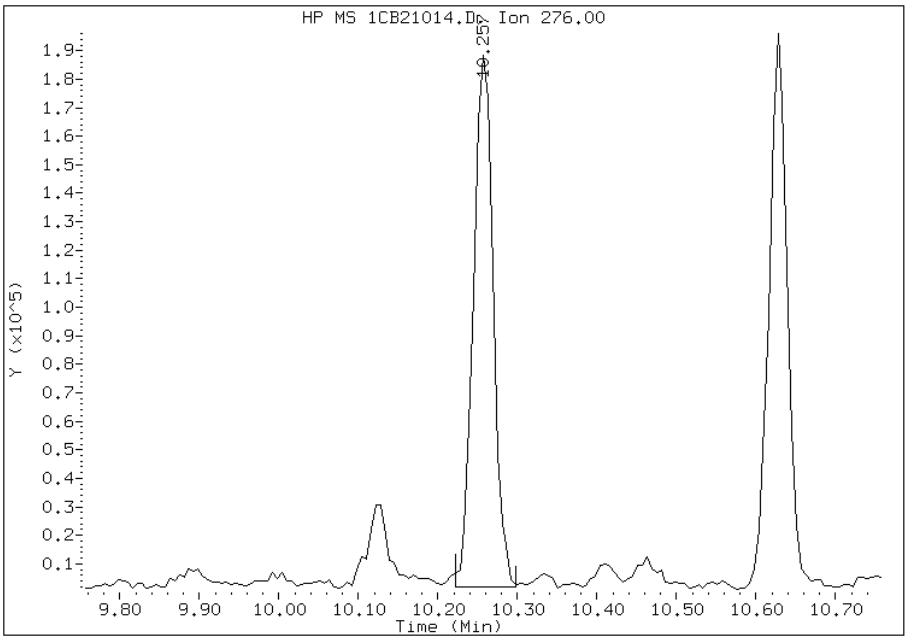
Processing Integration Results

RT: 10.26

Response: 322254

Amount: 6

Conc: 543



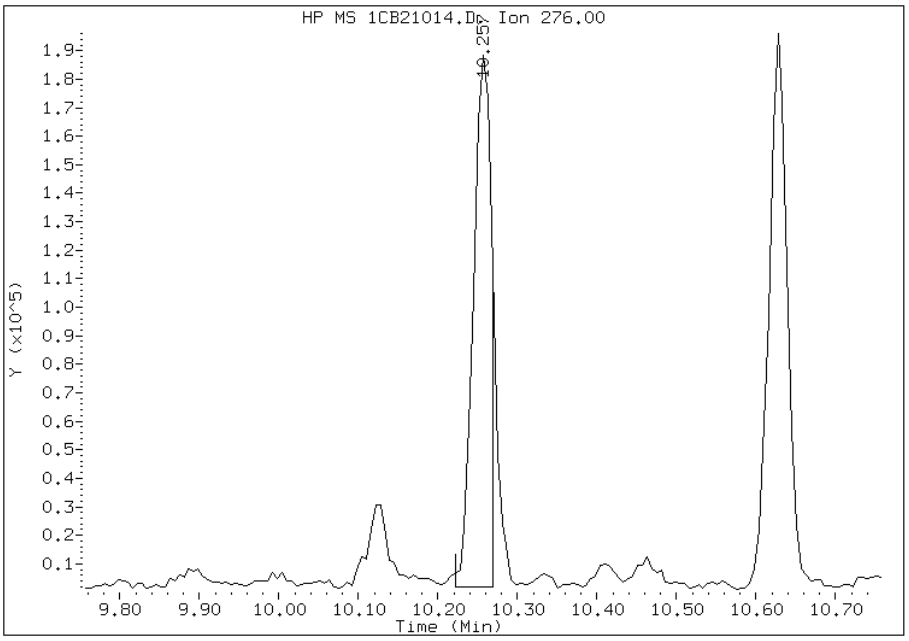
Manual Integration Results

RT: 10.26

Response: 291319

Amount: 5

Conc: 491



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971TT-CS | Lab Sample ID: 680-87496-31

Matrix: Solid | Lab File ID: 1CB21015.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:38

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.00(g) | Date Analyzed: 02/21/2013 15:28

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

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

% Moisture: 9.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	95	J	110	22
208-96-8	Acenaphthylene	180		44	5.5
120-12-7	Anthracene	280		9.3	4.7
56-55-3	Benzo[a]anthracene	1300		8.9	4.3
50-32-8	Benzo[a]pyrene	1300		12	5.8
205-99-2	Benzo[b]fluoranthene	2000		14	6.8
191-24-2	Benzo[g,h,i]perylene	950		22	4.9
207-08-9	Benzo[k]fluoranthene	830		8.9	4.0
218-01-9	Chrysene	1300		10	5.0
53-70-3	Dibenz(a,h)anthracene	260		22	4.5
206-44-0	Fluoranthene	2400		22	4.4
86-73-7	Fluorene	94		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	780		22	7.9
90-12-0	1-Methylnaphthalene	180		44	4.9
91-57-6	2-Methylnaphthalene	220		44	7.9
91-20-3	Naphthalene	190		44	4.9
85-01-8	Phenanthrene	1100		8.9	4.3
129-00-0	Pyrene	2200		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	103		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21015.D
Lab Smp Id: 680-87496-A-31-A Client Smp ID: CV0971TT-CS
Inj Date : 21-FEB-2013 15:28
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-31-a
Misc Info : 680-87496-A-31-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	15.000	Weight Extracted
M	9.884	% 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	3.810	3.810	(1.000)	1638008	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1223024	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2150543	40.0000	
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	323156	10.2555	758.6898
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2334463	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2270781	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	114313	2.63363	194.8321
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	84831	3.00574	222.3599
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	62573	2.43774	180.3403
5 Acenaphthylene	152	4.815	4.815	(0.983)	119014	2.44598	180.9496
7 Acenaphthene	154	4.921	4.921	(1.005)	38984	1.27745	94.5038
9 Fluorene	166	5.239	5.239	(1.070)	49925	1.27446	94.2829
11 Phenanthrene	178	5.868	5.874	(1.002)	973273	15.1618	1121.6504
12 Anthracene	178	5.904	5.904	(1.008)	216475	3.74296	276.8987

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	121191	2.41239	178.4651
15 Fluoranthene	202	6.715	6.715	(1.147)	2055249	32.7662	2423.9911
16 Pyrene	202	6.886	6.886	(0.882)	1817511	29.2444	2163.4540
17 Benzo(a)anthracene	228	7.804	7.803	(0.999)	1118787	17.3789	1285.6673
19 Chrysene	228	7.827	7.833	(1.002)	1166311	17.5393	1297.5306
20 Benzo(b)fluoranthene	252	8.674	8.668	(0.960)	1483562	26.6482	1971.3931(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	686802	11.1981	828.4152(M)
22 Benzo(a)pyrene	252	8.980	8.974	(0.994)	949003	17.9141	1325.2589
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.136)	533121	10.4777	775.1240(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	165945	3.45847	255.8525
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.177)	663392	12.8352	949.5269

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB21015.D

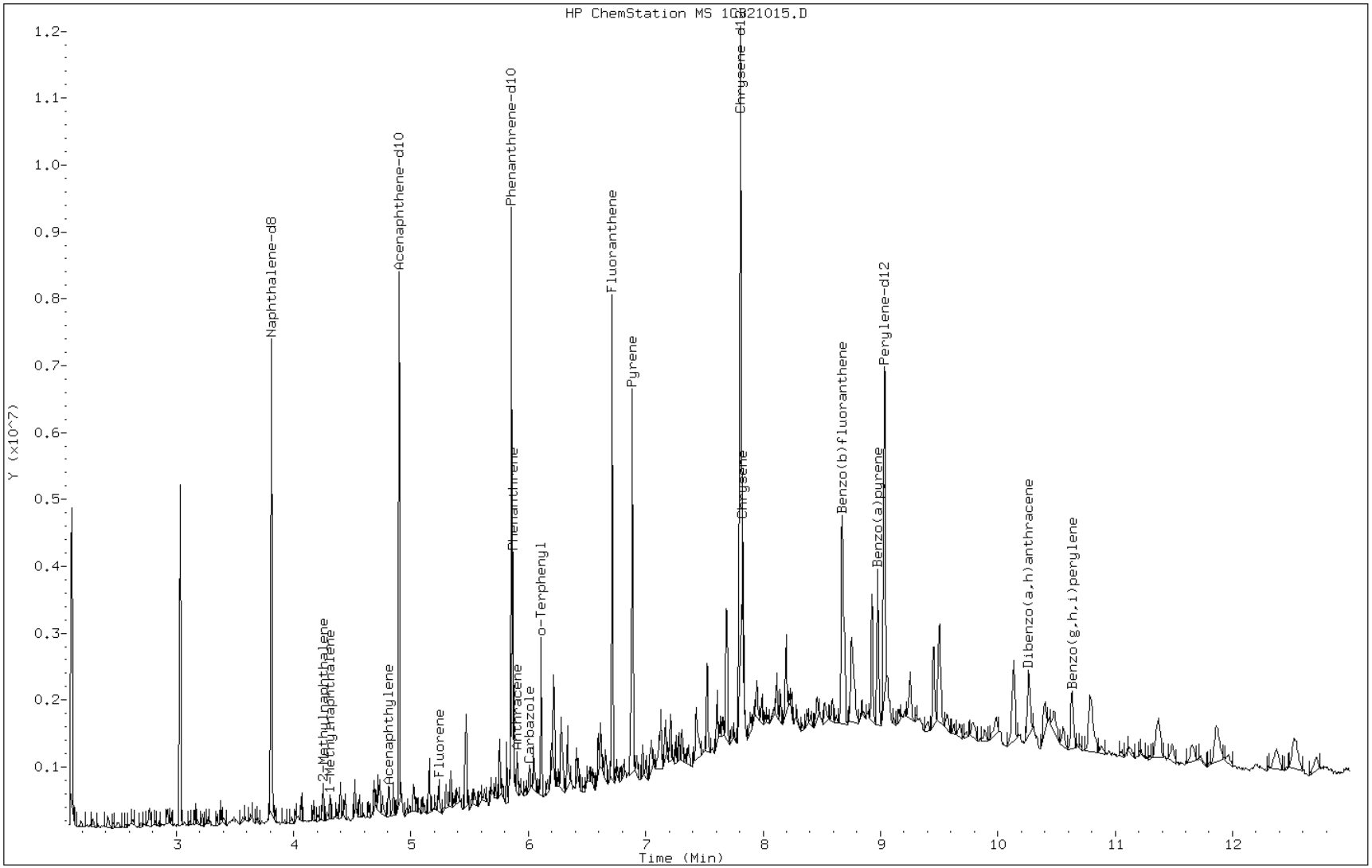
Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a

Operator: SCC



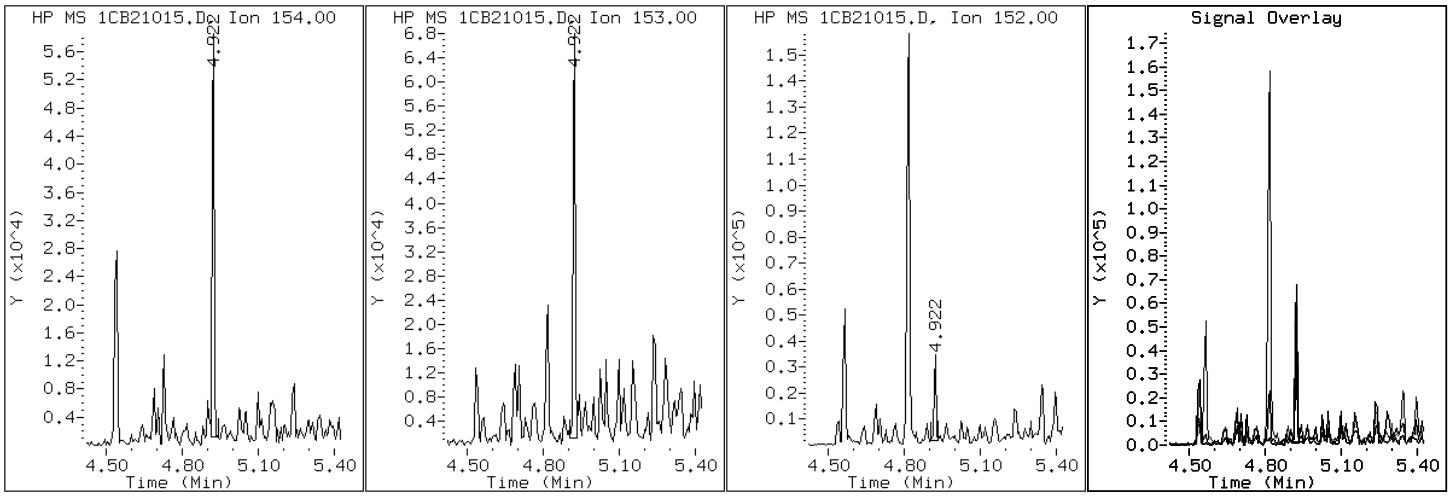
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

7 Acenaphthene



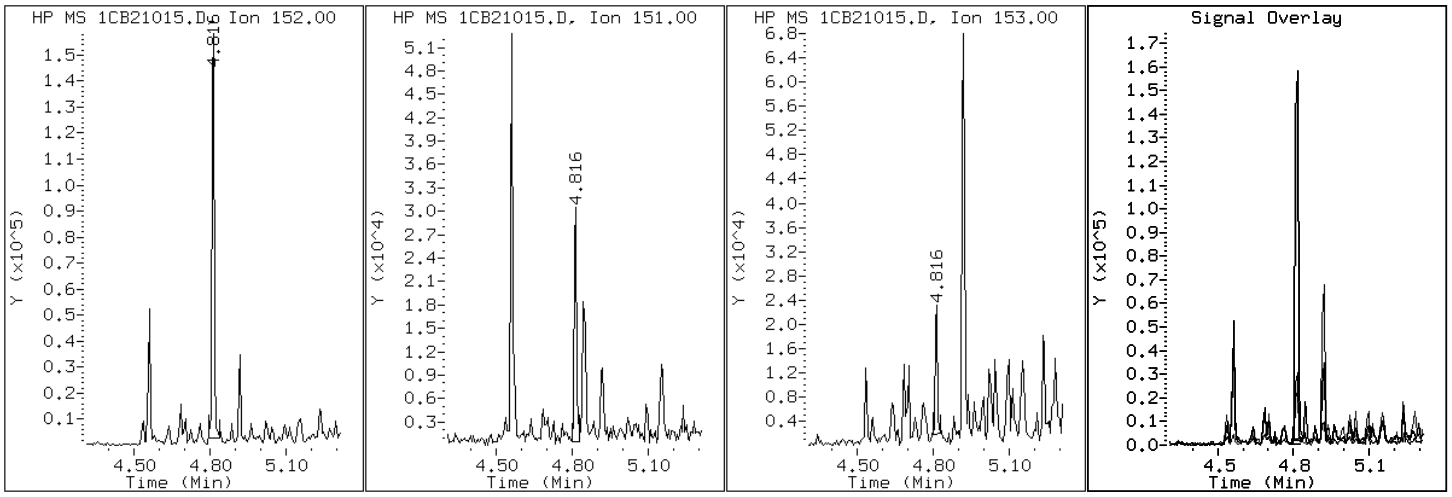
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

5 Acenaphthylene



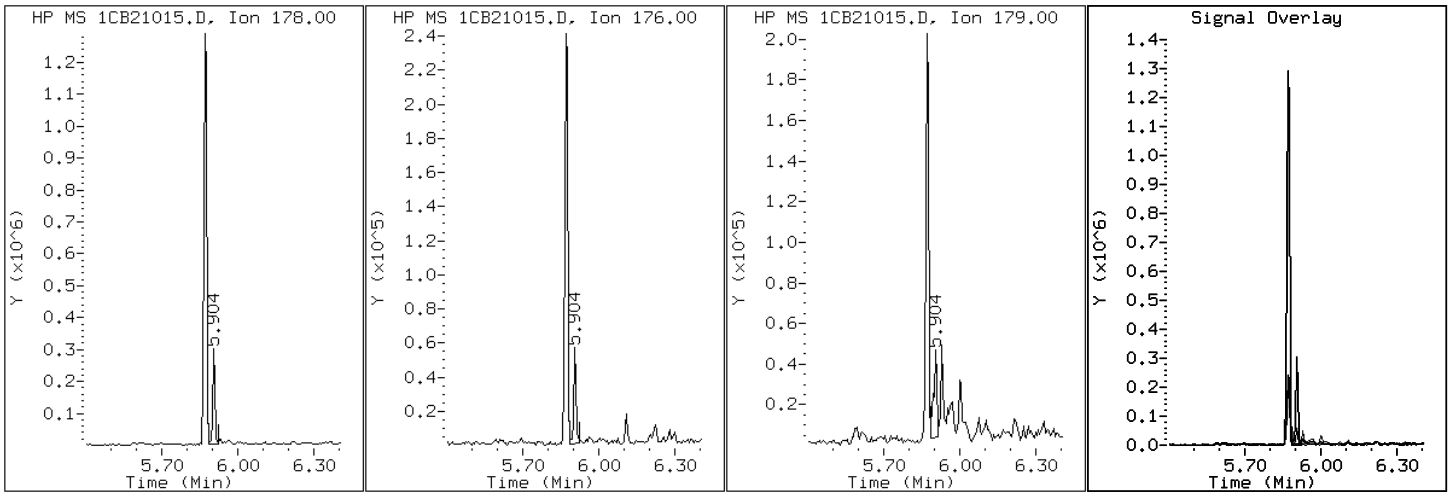
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

12 Anthracene



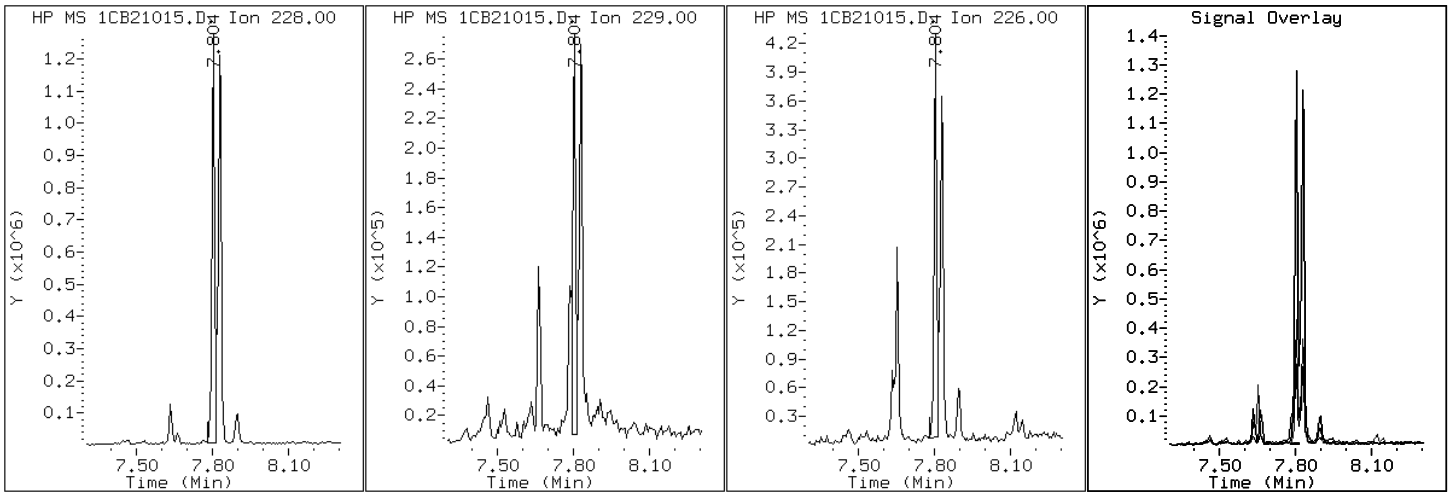
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

17 Benzo(a)anthracene



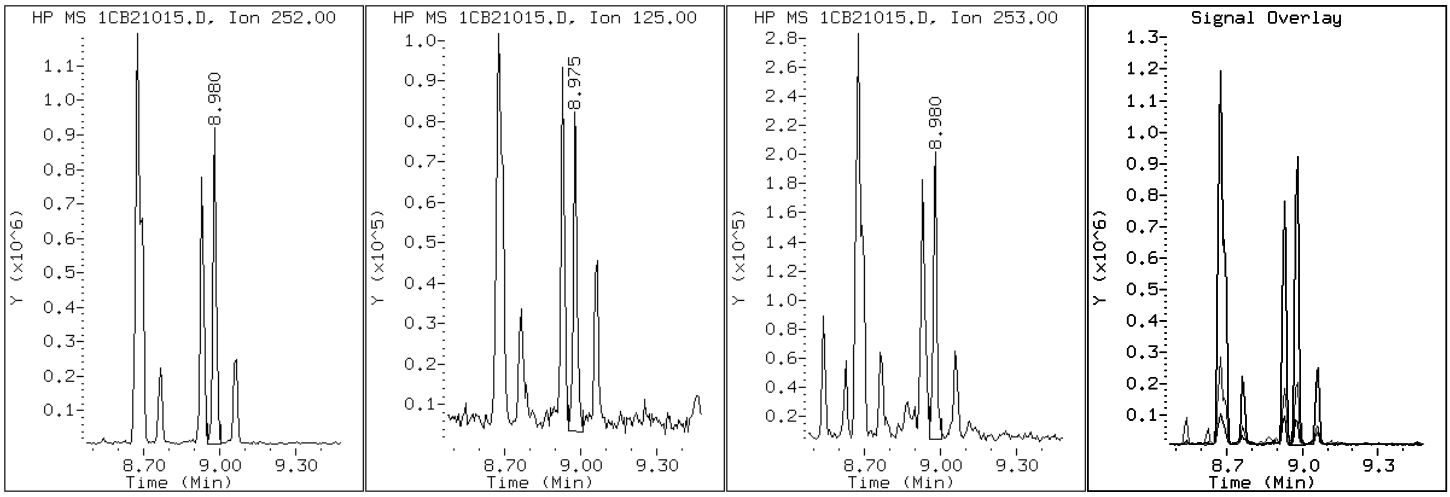
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

22 Benzo(a)pyrene



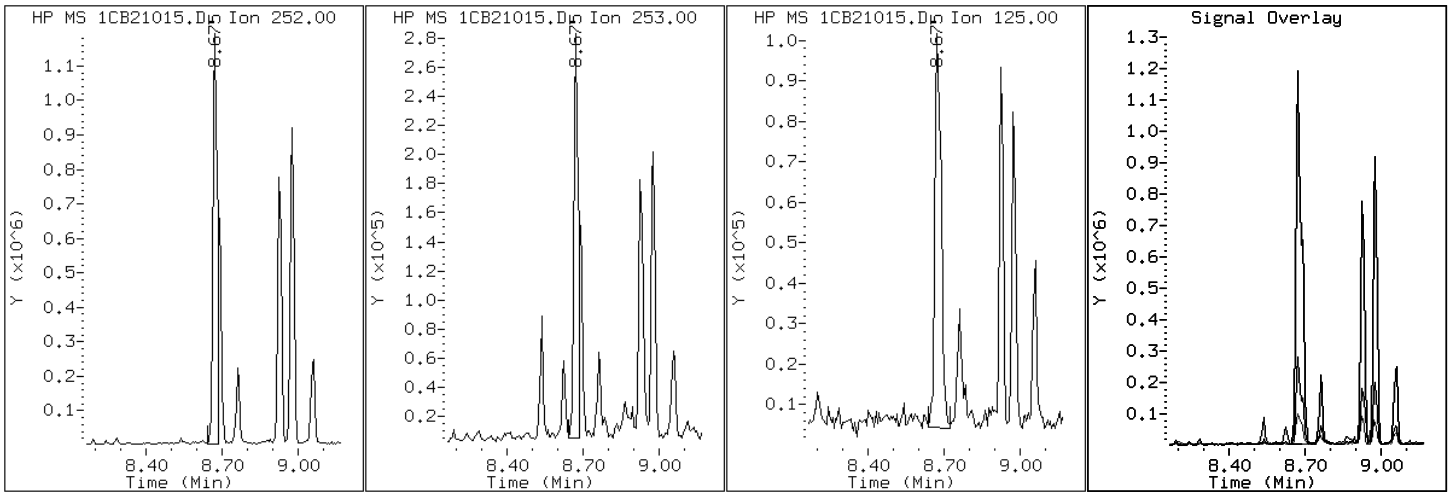
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

20 Benzo(b)fluoranthene



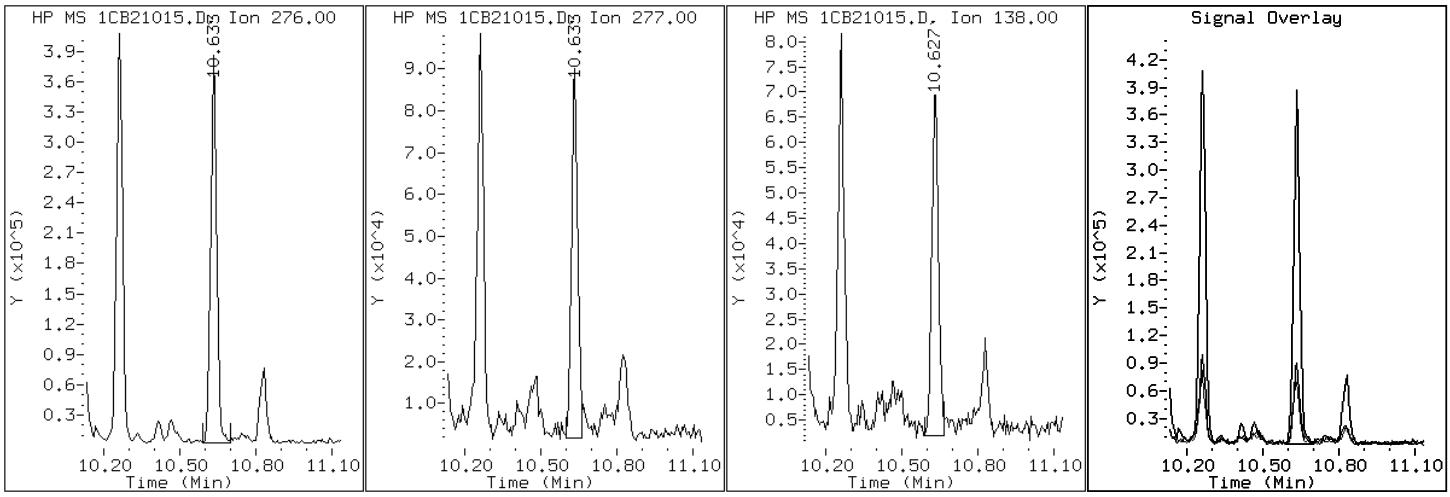
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

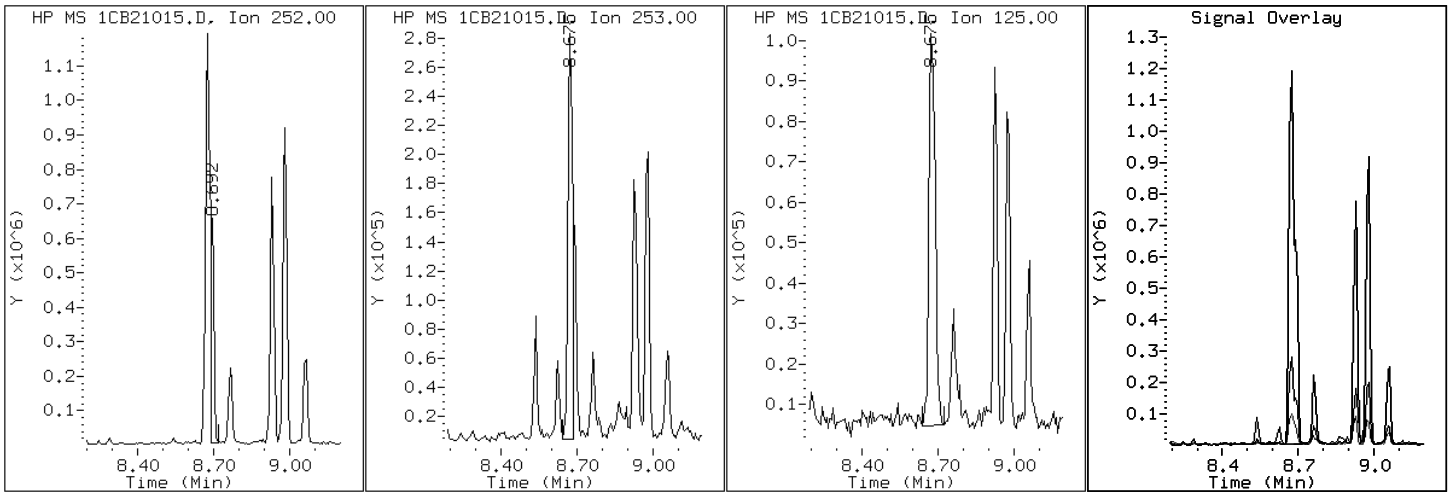
Client ID: CV0971TT-CS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a

Operator: SCC

21 Benzo(k)fluoranthene



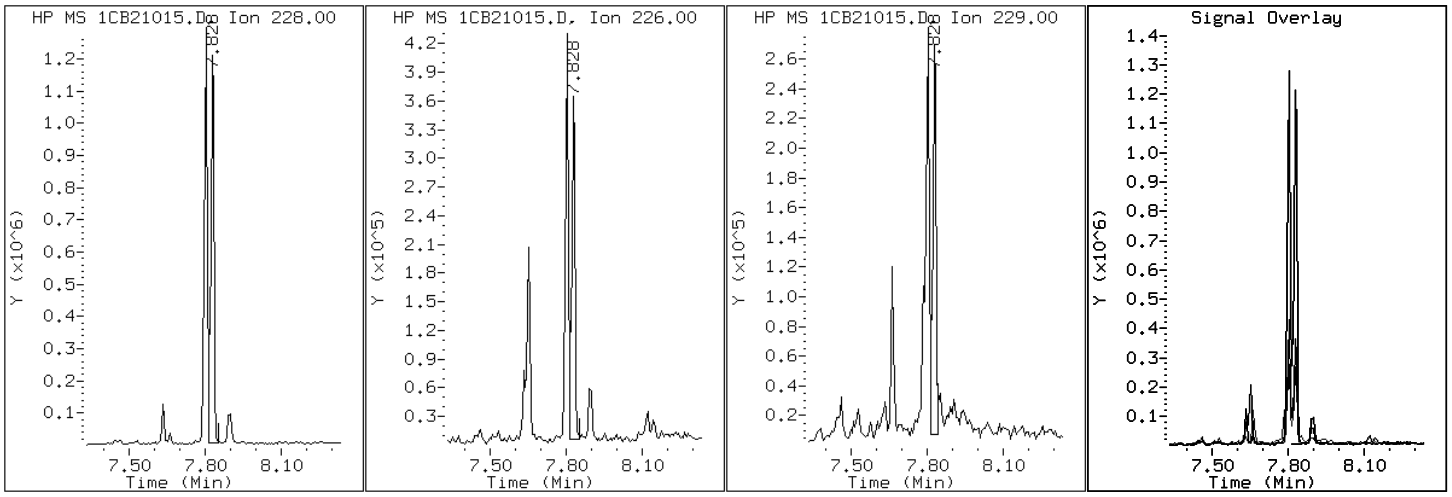
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

19 Chrysene



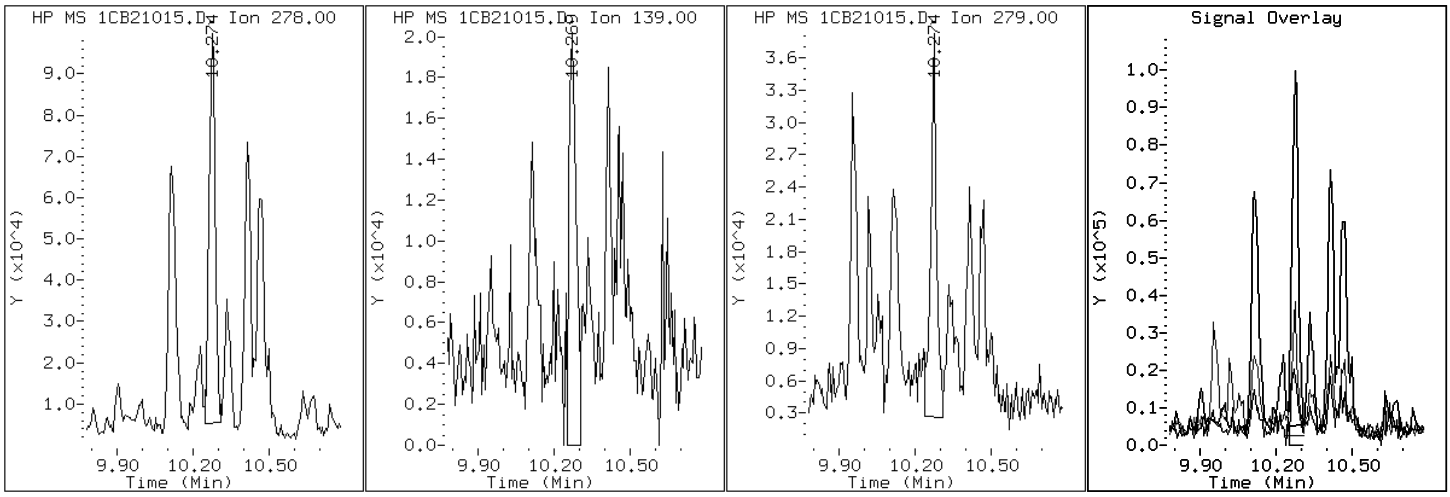
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

25 Dibenzo(a,h)anthracene



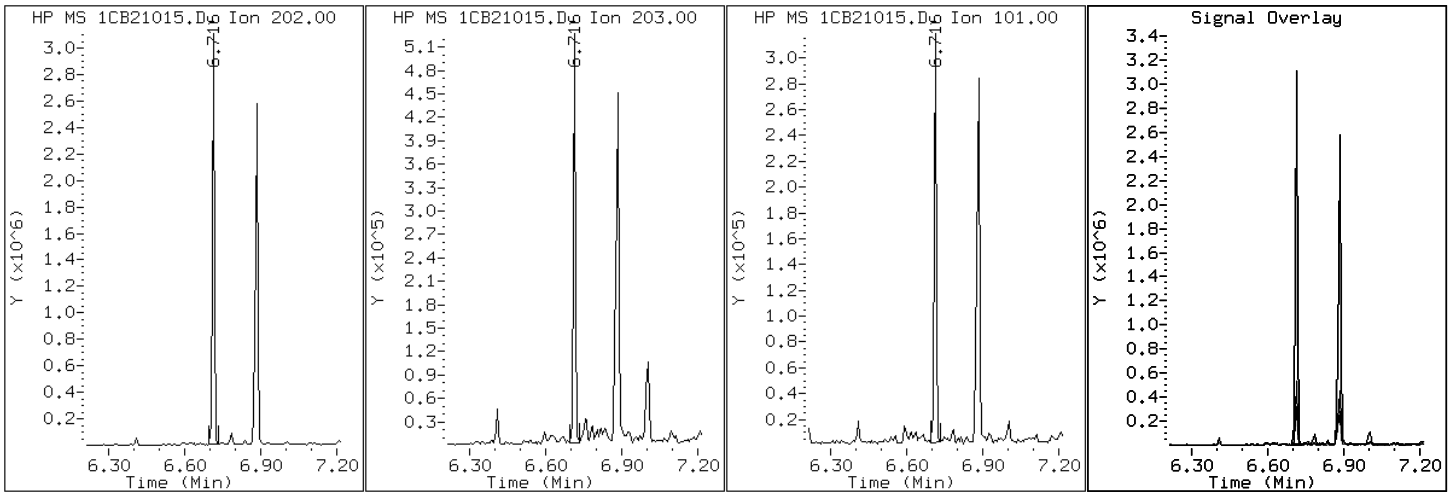
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

15 Fluoranthene



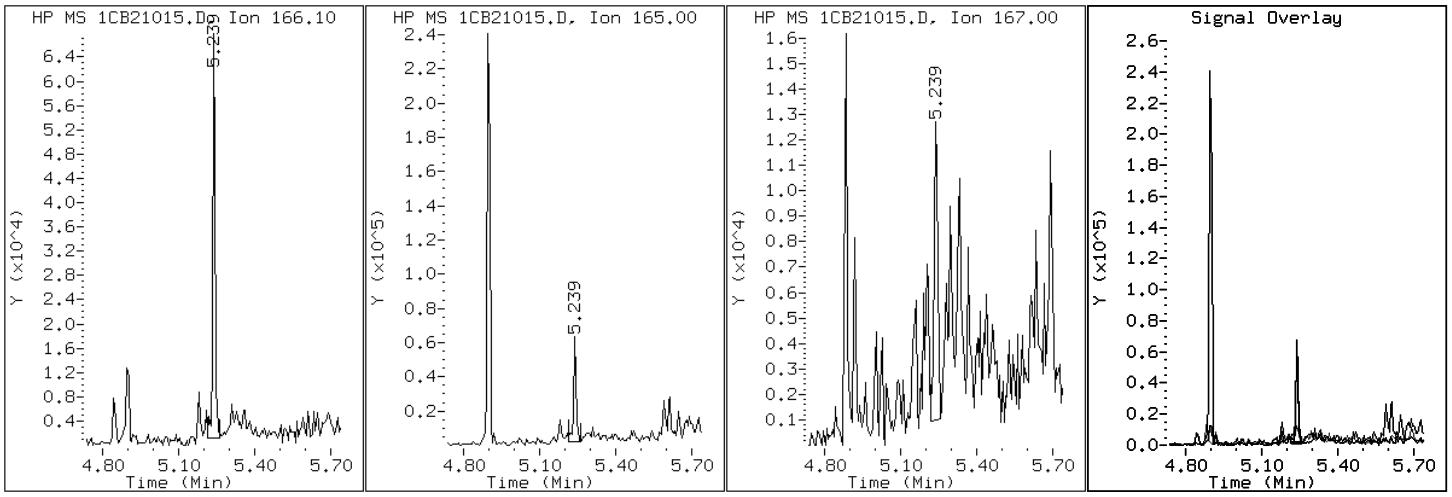
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

9 Fluorene



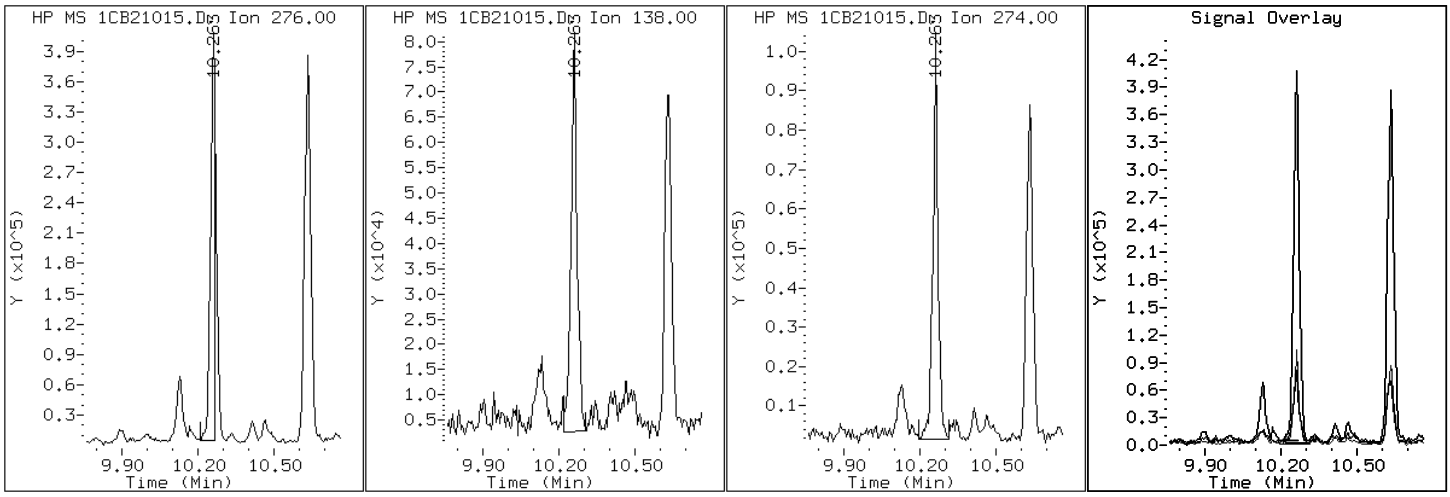
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

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



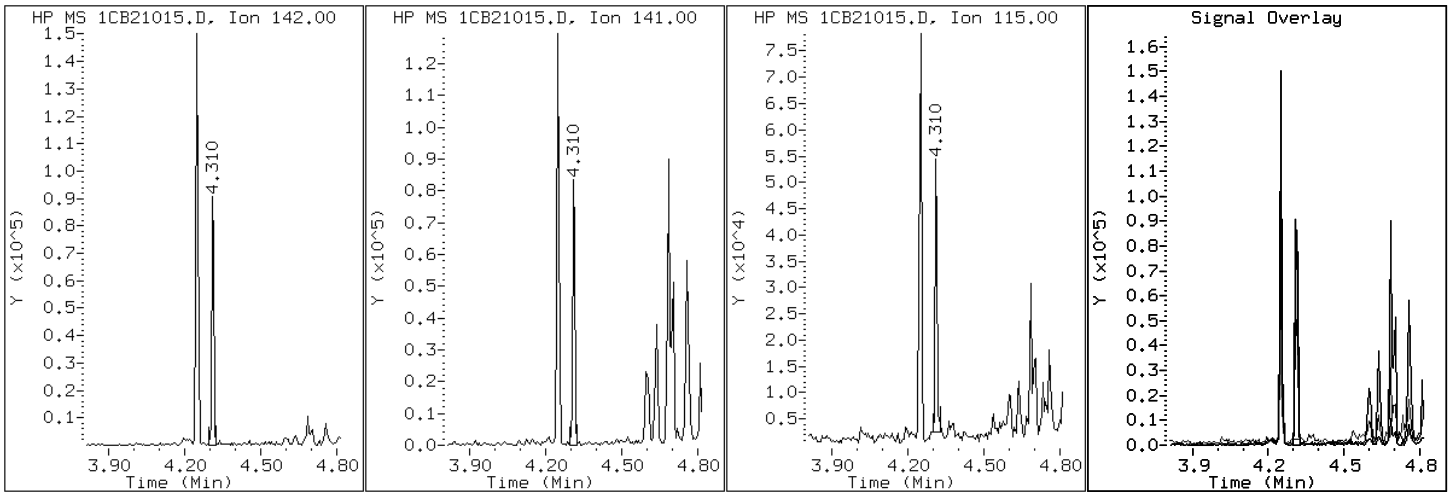
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

4 1-Methylnaphthalene



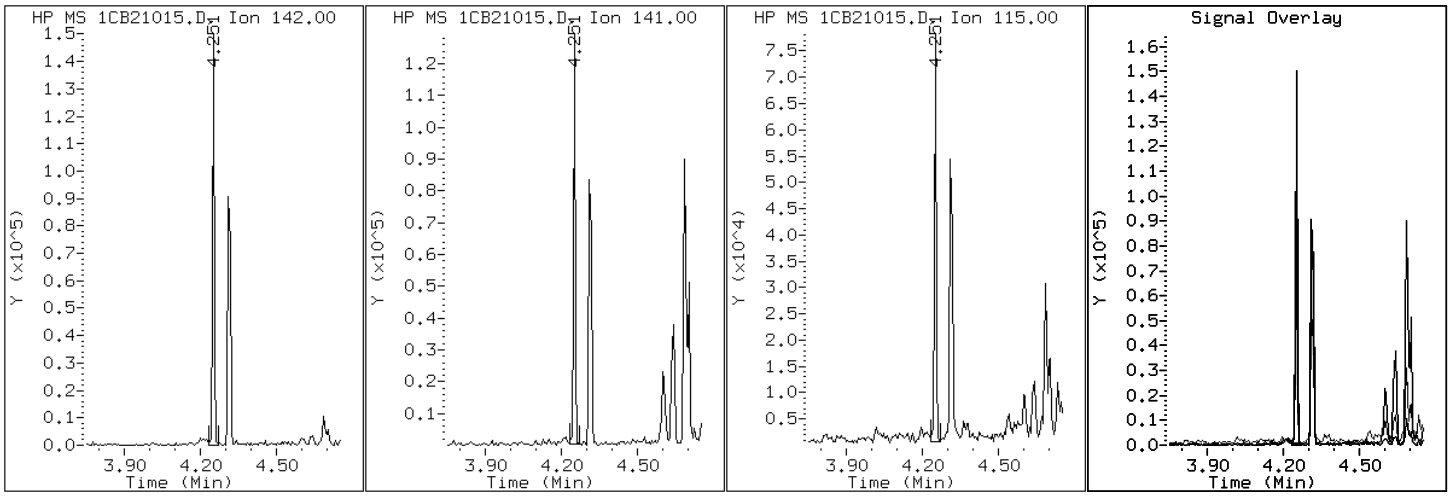
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

3 2-Methylnaphthalene



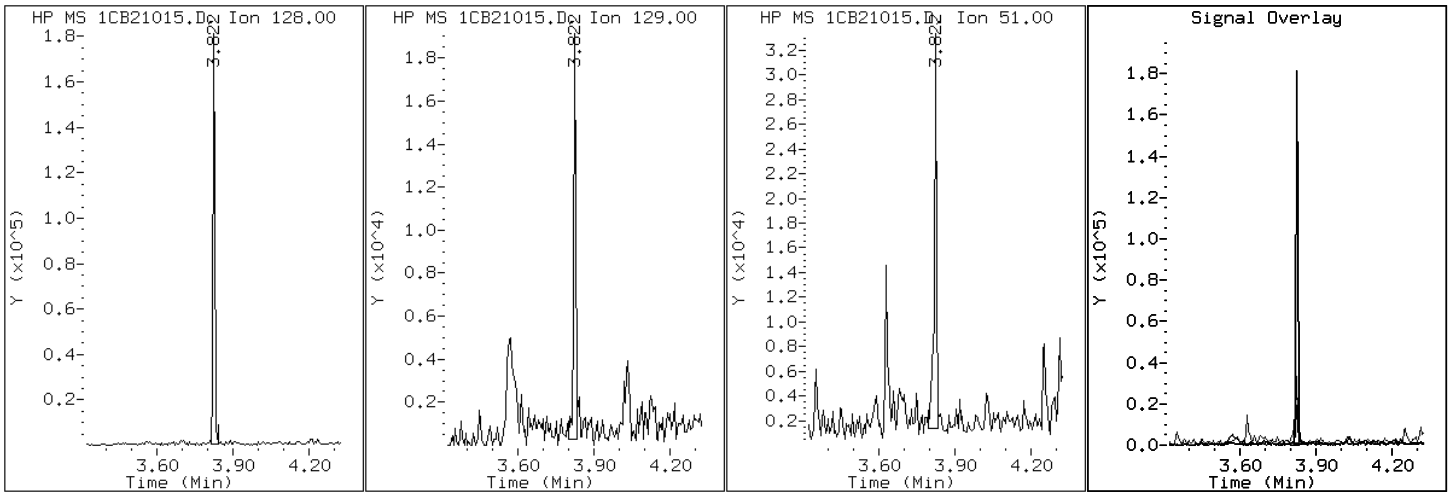
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

2 Naphthalene



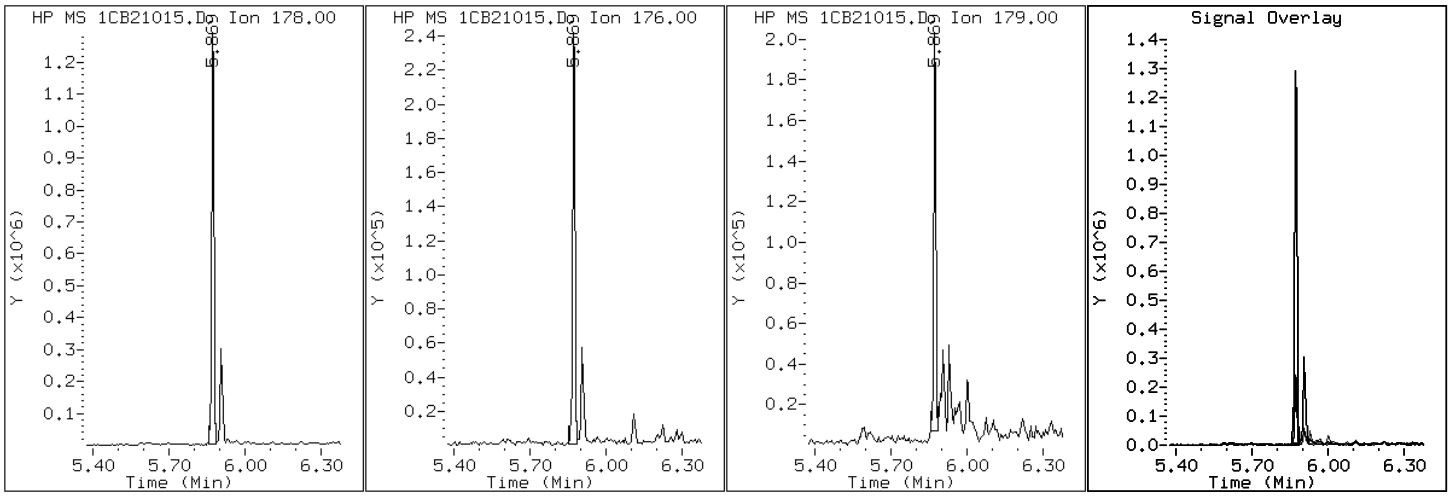
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

11 Phenanthrene



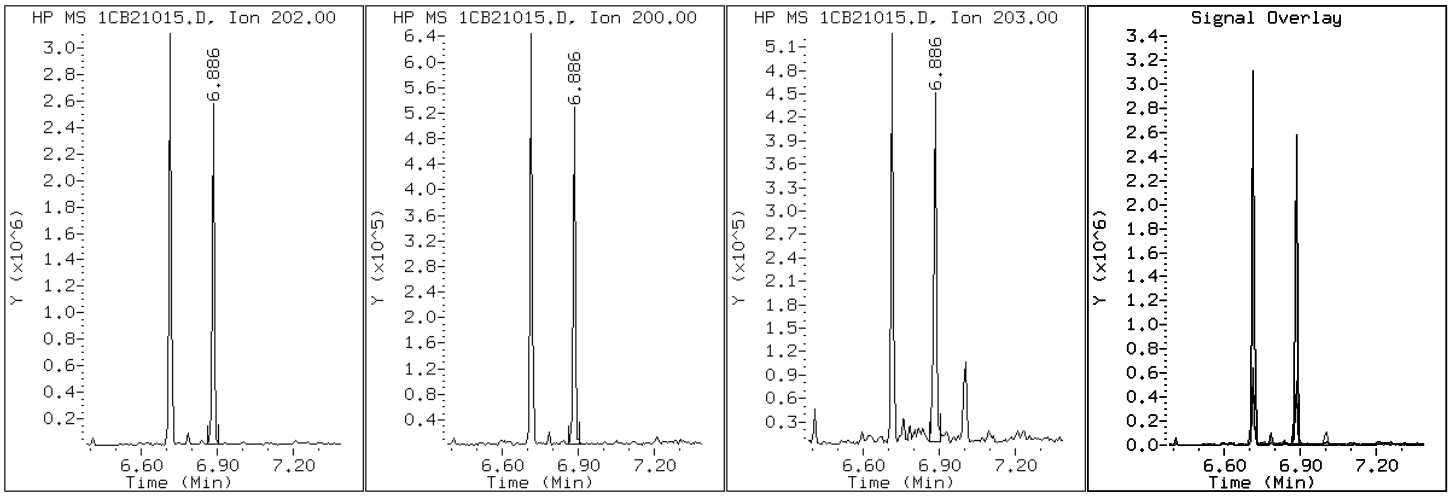
Data File: 1CB21015.D

Date: 21-FEB-2013 15:28

Client ID: CV0971TT-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-31-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21015.D
Inj. Date and Time: 21-FEB-2013 15:28
Instrument ID: BSMC5973.i
Client ID: CV0971TT-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

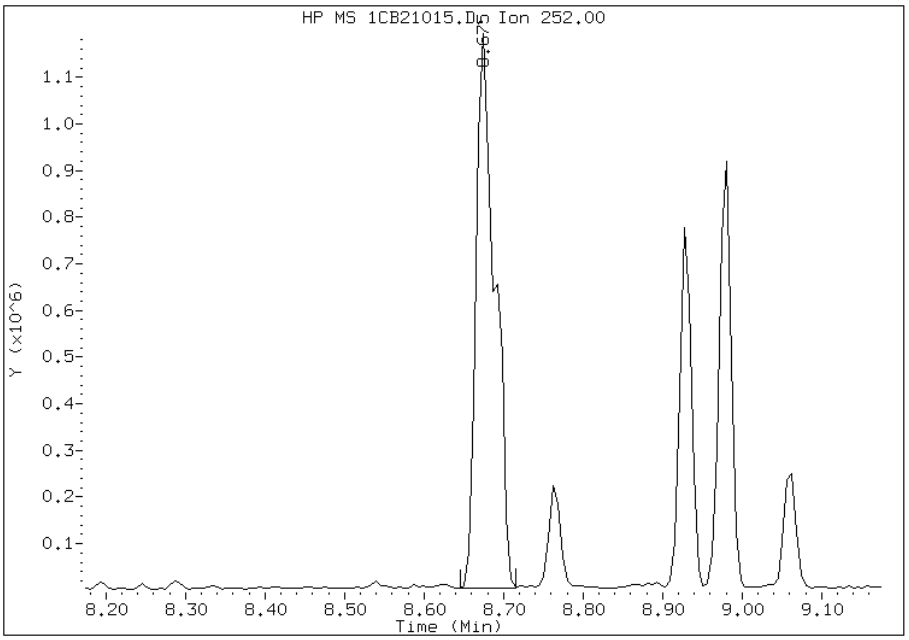
Processing Integration Results

RT: 8.67

Response: 1951629

Amount: 35

Conc: 2593



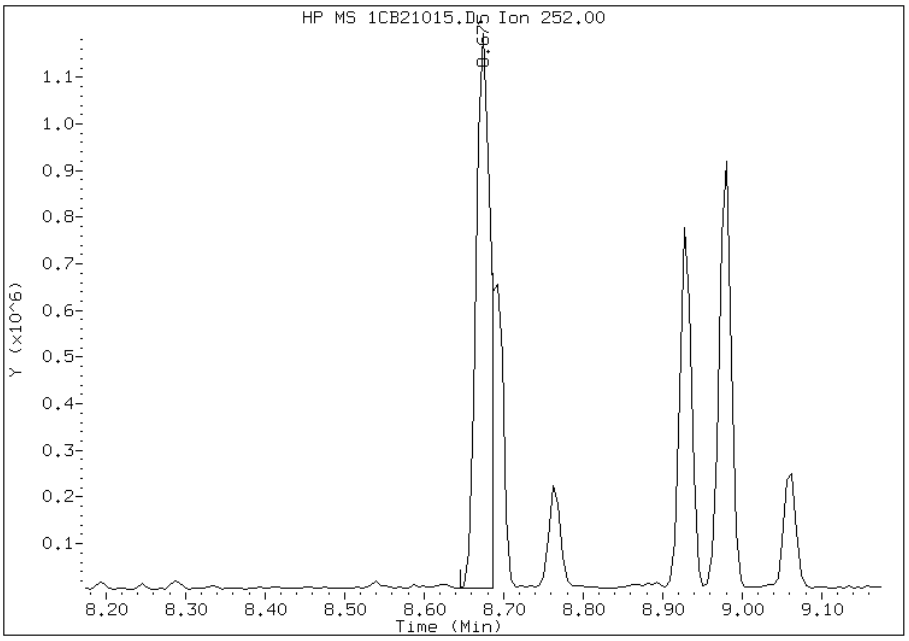
Manual Integration Results

RT: 8.67

Response: 1483562

Amount: 27

Conc: 1971



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB21015.D
Inj. Date and Time: 21-FEB-2013 15:28
Instrument ID: BSMC5973.i
Client ID: CV0971TT-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

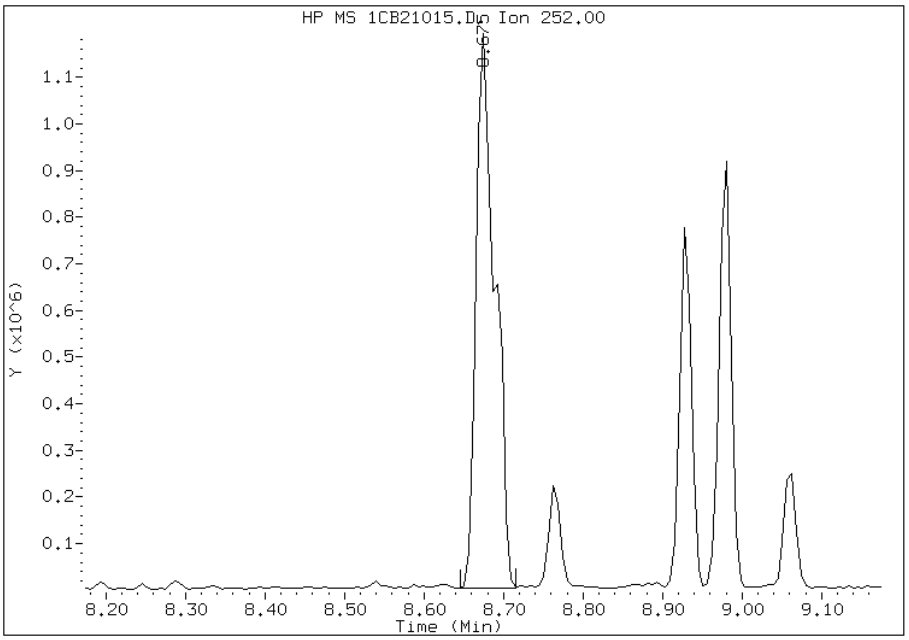
Processing Integration Results

RT: 8.67

Response: 1951134

Amount: 32

Conc: 2353



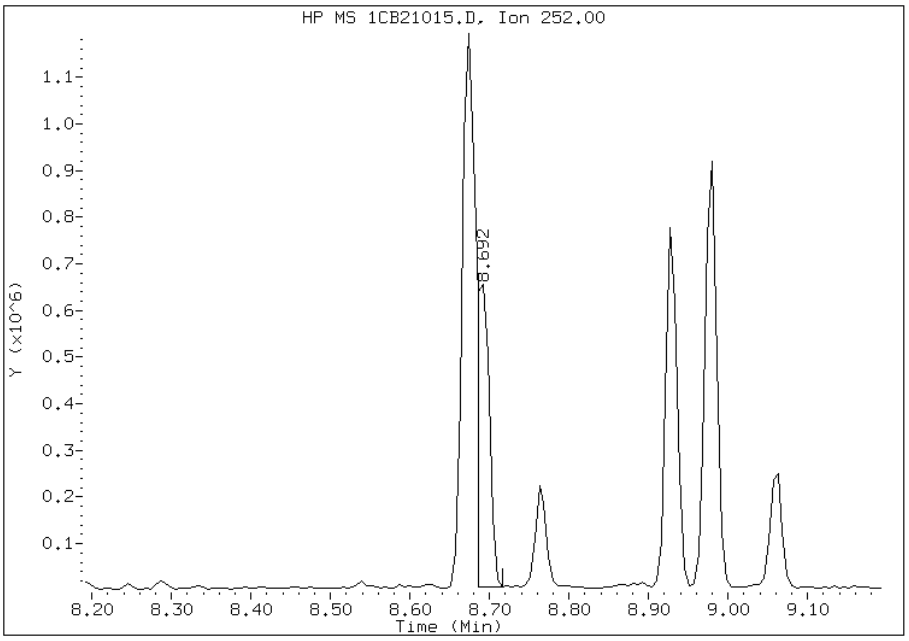
Manual Integration Results

RT: 8.69

Response: 686802

Amount: 11

Conc: 828



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21015.D
Inj. Date and Time: 21-FEB-2013 15:28
Instrument ID: BSMC5973.i
Client ID: CV0971TT-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

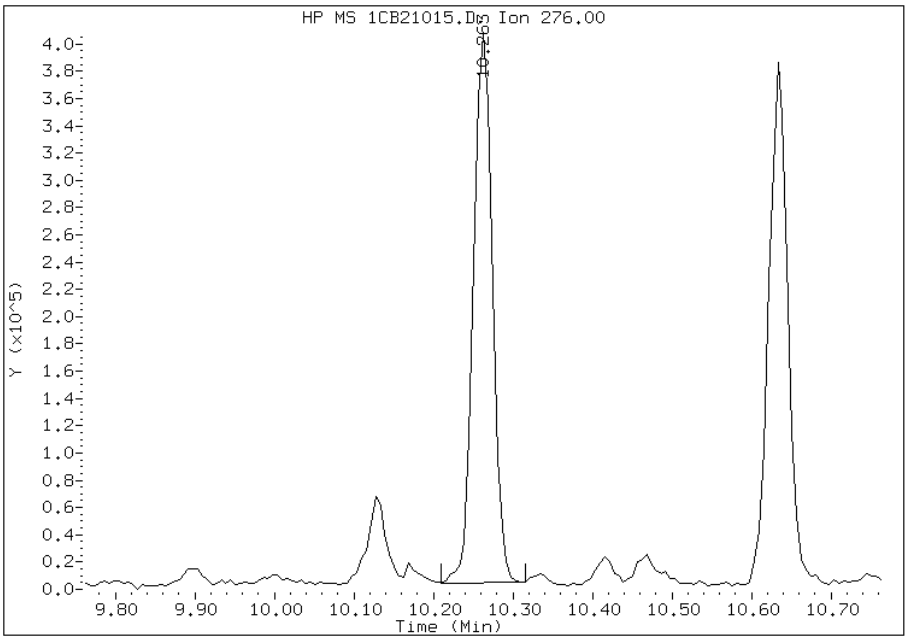
Processing Integration Results

RT: 10.26

Response: 663336

Amount: 13

Conc: 964



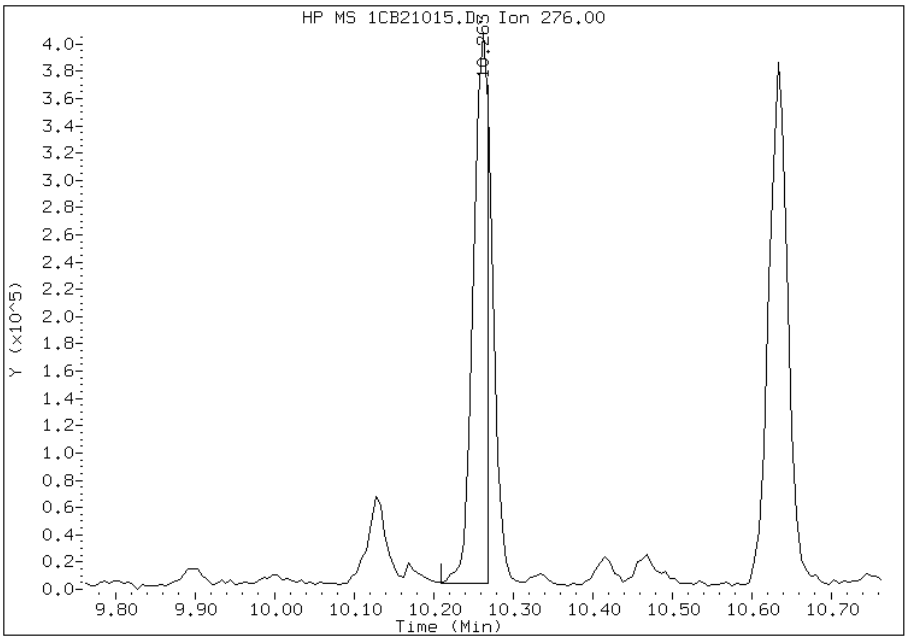
Manual Integration Results

RT: 10.26

Response: 533121

Amount: 10

Conc: 775



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971AK-GS | Lab Sample ID: 680-87496-32

Matrix: Solid | Lab File ID: 1CB21016.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 09:21

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.19(g) | Date Analyzed: 02/21/2013 15:46

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

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

% Moisture: 28.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	12	J	55	6.9
120-12-7	Anthracene	13		12	5.8
56-55-3	Benzo[a]anthracene	71		11	5.4
50-32-8	Benzo[a]pyrene	68		14	7.2
205-99-2	Benzo[b]fluoranthene	120		17	8.5
191-24-2	Benzo[g,h,i]perylene	55		28	6.1
207-08-9	Benzo[k]fluoranthene	35		11	5.0
218-01-9	Chrysene	82		12	6.2
53-70-3	Dibenz(a,h)anthracene	16	J	28	5.7
206-44-0	Fluoranthene	100		28	5.5
86-73-7	Fluorene	8.3	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	40		28	9.8
90-12-0	1-Methylnaphthalene	26	J	55	6.1
91-57-6	2-Methylnaphthalene	38	J	55	9.8
91-20-3	Naphthalene	39	J	55	6.1
85-01-8	Phenanthrene	58		11	5.4
129-00-0	Pyrene	100		28	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	105		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21016.D
Lab Smp Id: 680-87496-A-32-A Client Smp ID: CV0971AK-GS
Inj Date : 21-FEB-2013 15:46
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-32-a
Misc Info : 680-87496-A-32-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	15.190	Weight Extracted
M	28.793	% 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	3.810	3.810	(1.000)	1779958	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1365748	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2437384	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	375603	10.5172	972.3439
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	2468731	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2322424	40.0000	
2 Naphthalene	128	3.822	3.821	(1.003)	19879	0.42146	38.9655
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	12689	0.41374	38.2516
4 1-Methylnaphthalene	142	4.316	4.315	(1.133)	7702	0.27613	25.5287
5 Acenaphthylene	152	4.816	4.815	(0.983)	6953	0.12796	11.8307
9 Fluorene	166	5.239	5.239	(1.070)	3929	0.08982	8.3037(Q)
11 Phenanthrene	178	5.868	5.874	(1.002)	45339	0.62318	57.6147
12 Anthracene	178	5.904	5.904	(1.008)	8897	0.13573	12.5486
13 Carbazole	167	6.010	6.015	(1.026)	6509	0.11432	10.5690(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.716	6.715	(1.147)	78748	1.10771	102.4106
16 Pyrene	202	6.886	6.886	(0.882)	74315	1.13072	104.5381
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	52242	0.76738	70.9461
19 Chrysene	228	7.827	7.833	(1.002)	62422	0.88766	82.0670
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	72345	1.27059	117.4693
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	23685	0.37759	34.9090(Q)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	39932	0.73703	68.1400
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	22346	0.42941	39.7002(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.280	(1.136)	8399	0.17115	15.8234
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.177)	31655	0.59884	55.3640(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB21016.D

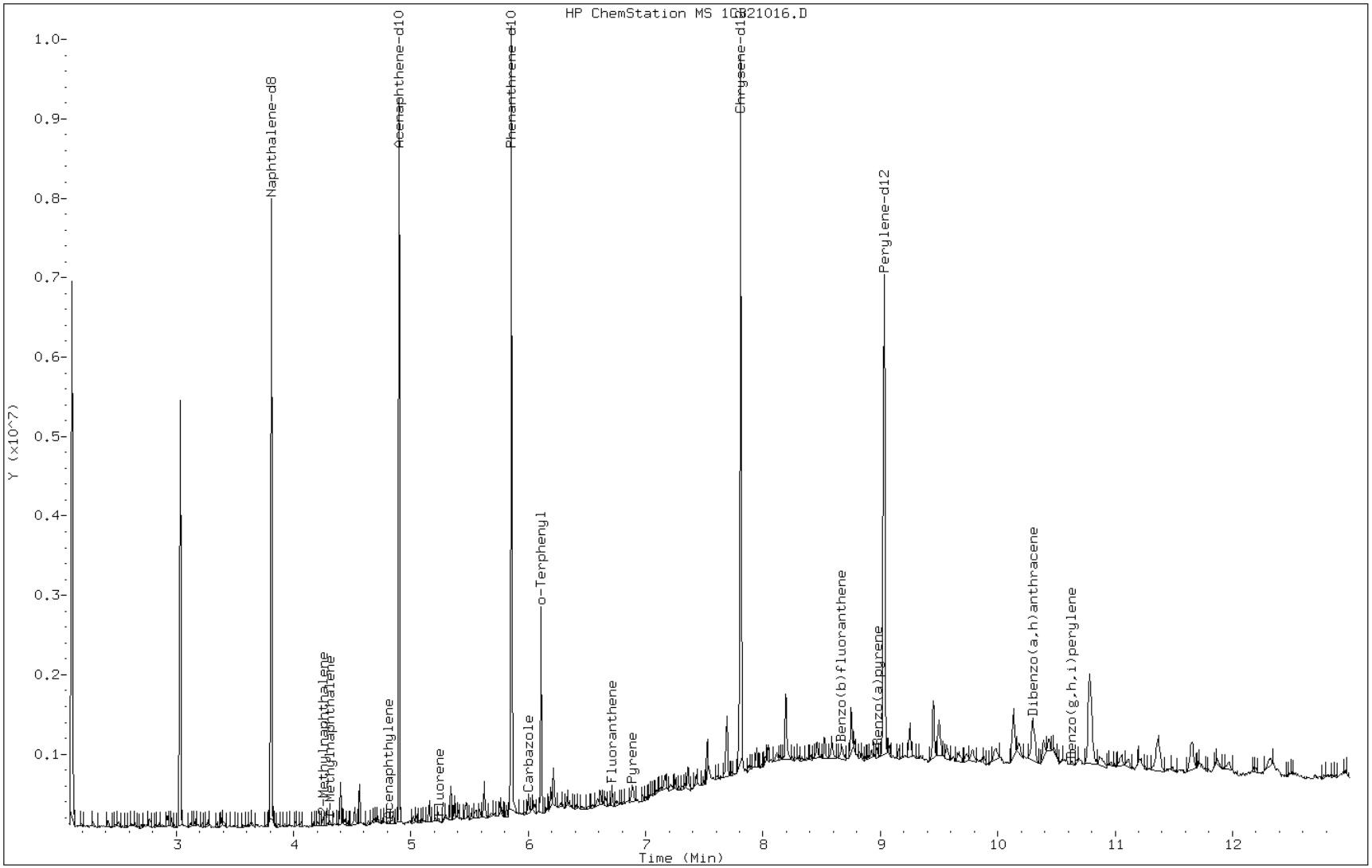
Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a

Operator: SCC



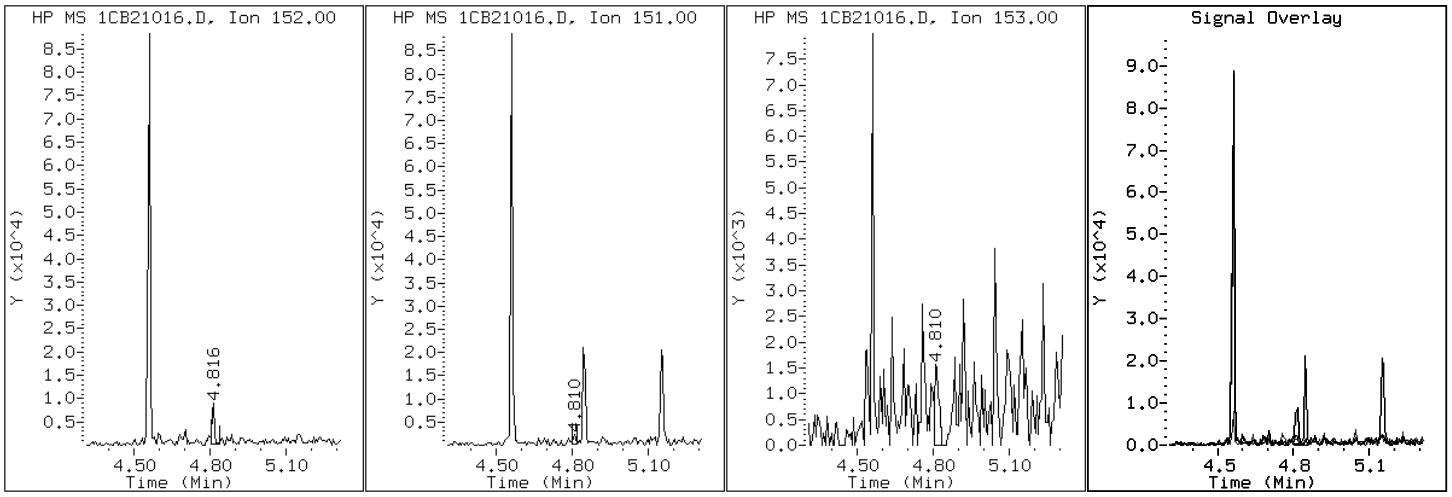
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

5 Acenaphthylene



Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

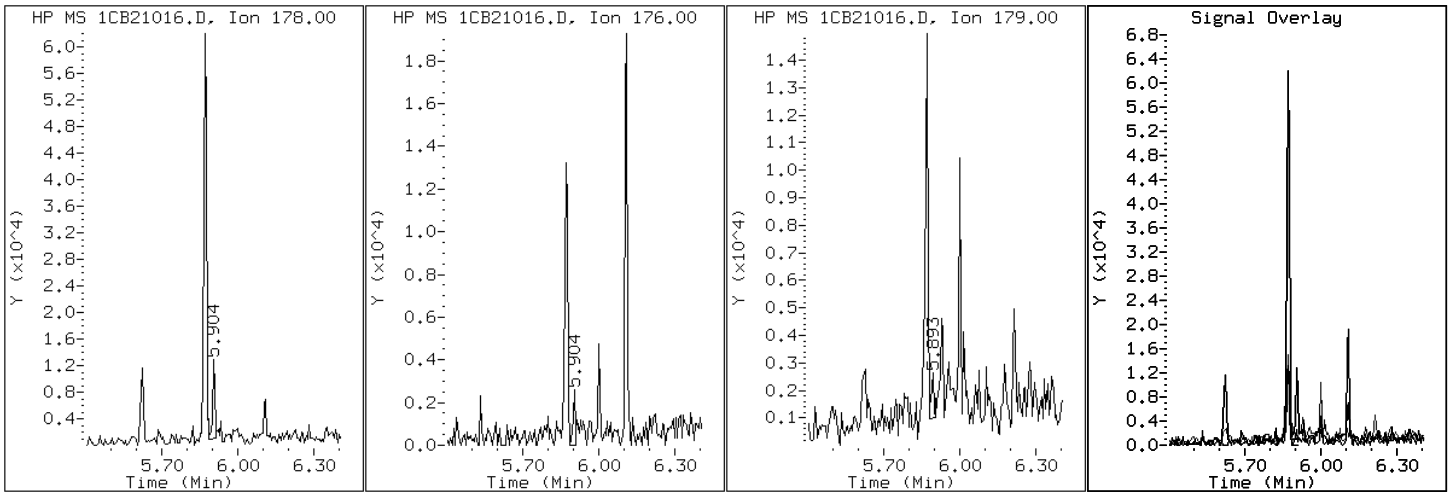
Client ID: CV0971AK-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a

Operator: SCC

12 Anthracene



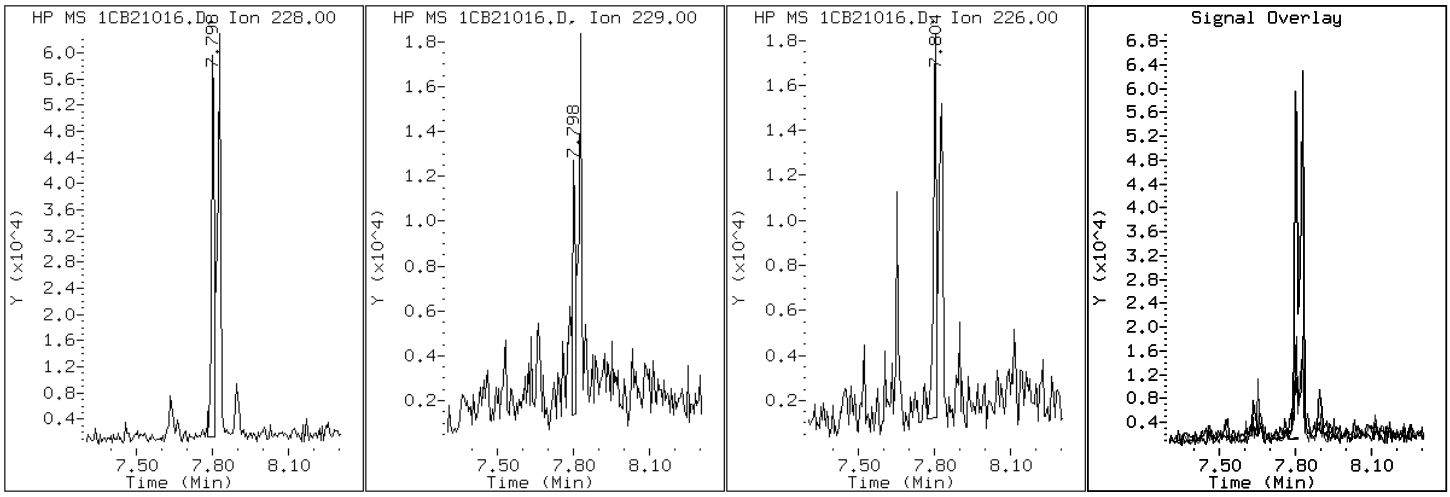
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

17 Benzo(a)anthracene



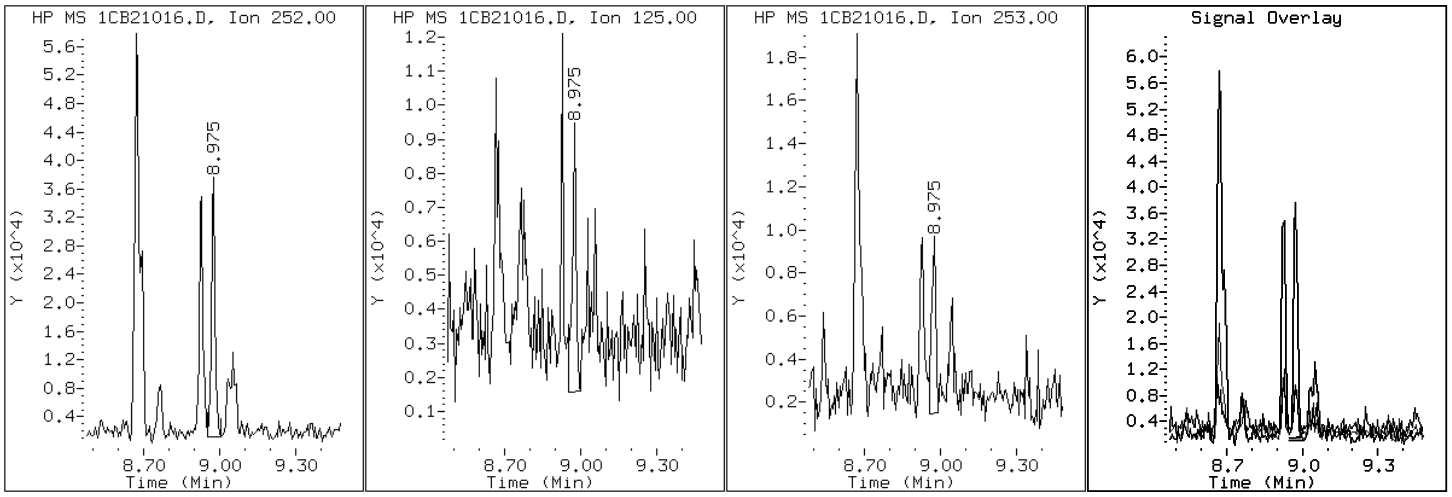
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

22 Benzo(a)pyrene



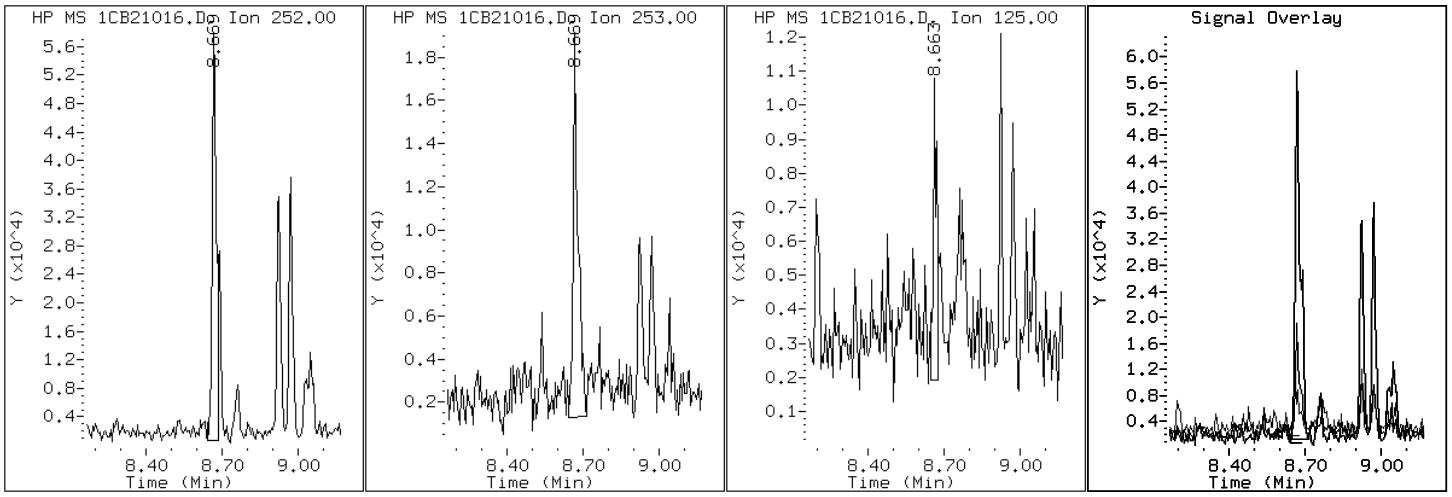
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

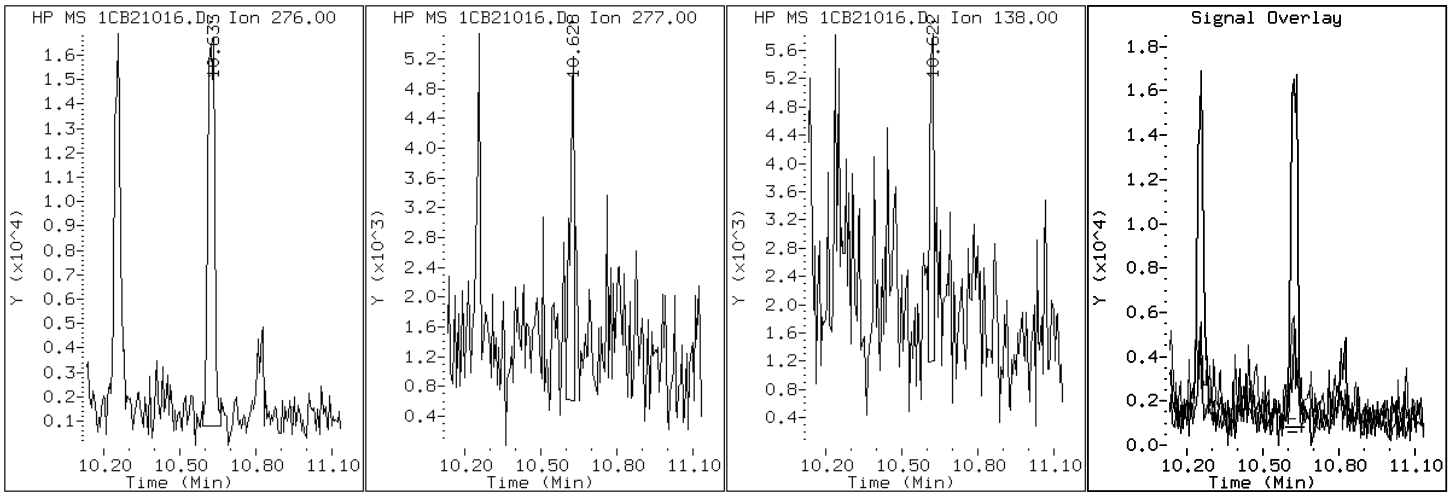
Client ID: CV0971AK-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a

Operator: SCC

26 Benzo(g,h,i)perylene



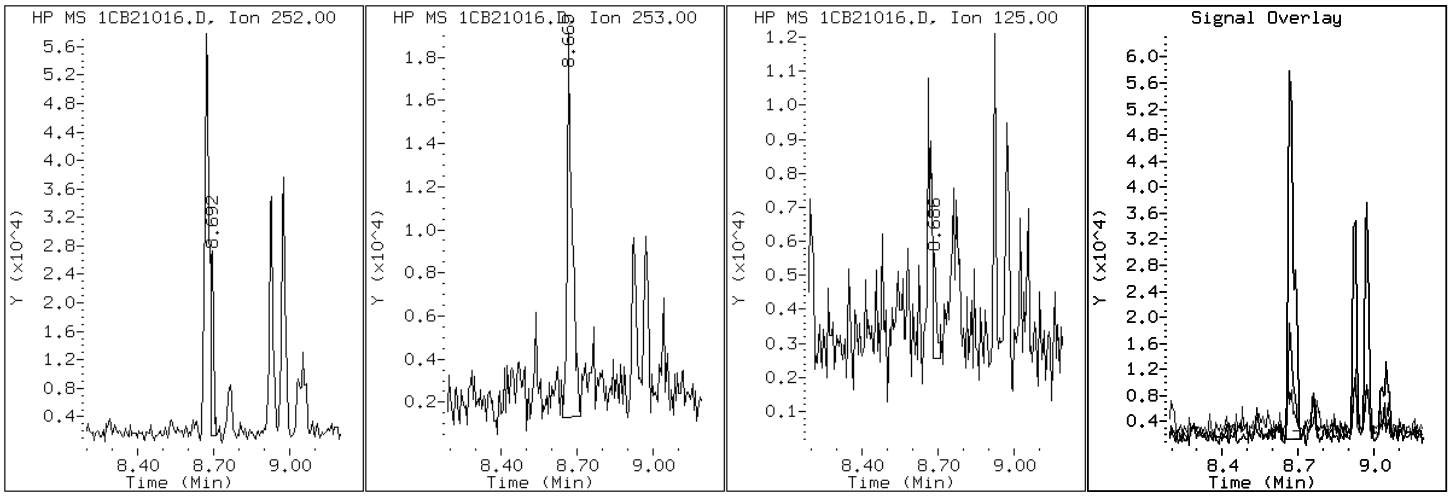
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

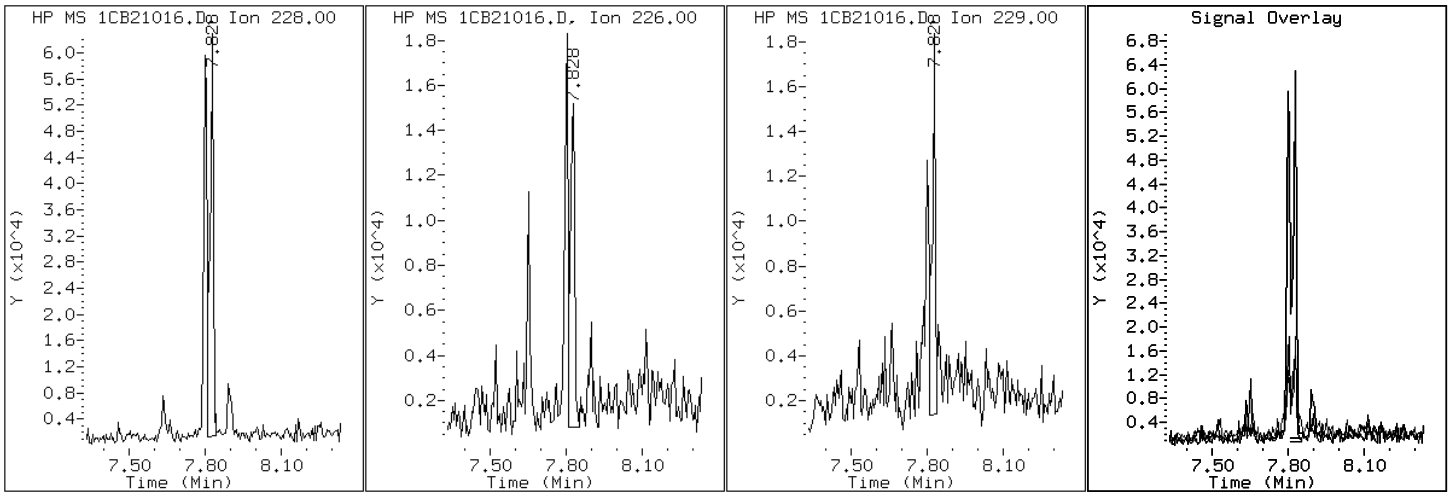
Client ID: CV0971AK-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a

Operator: SCC

19 Chrysene



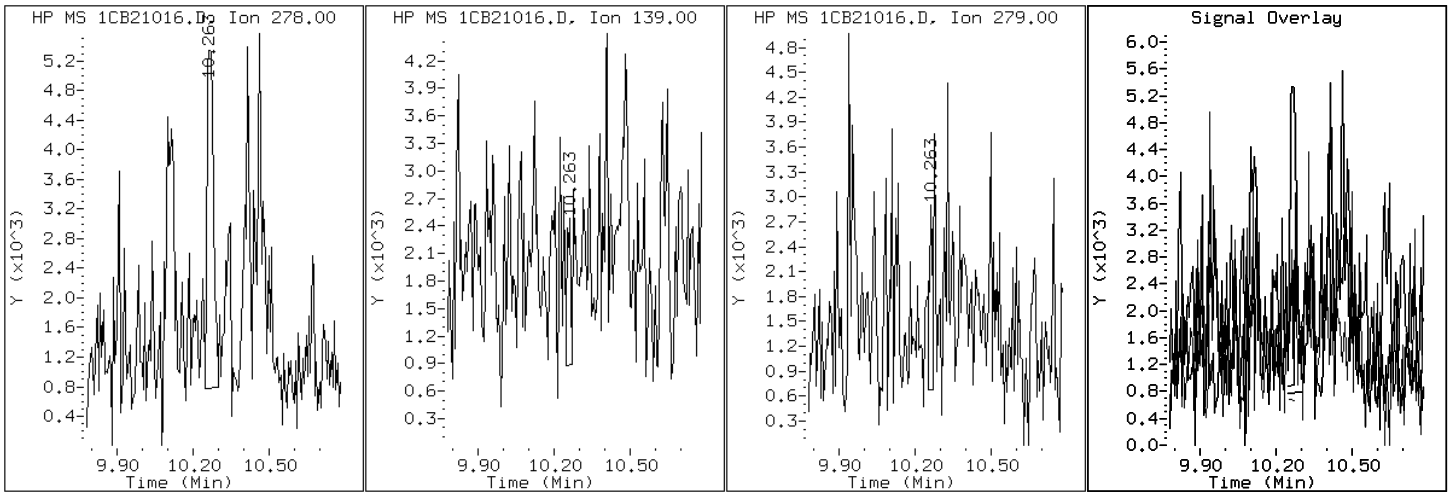
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

25 Dibenzo(a,h)anthracene



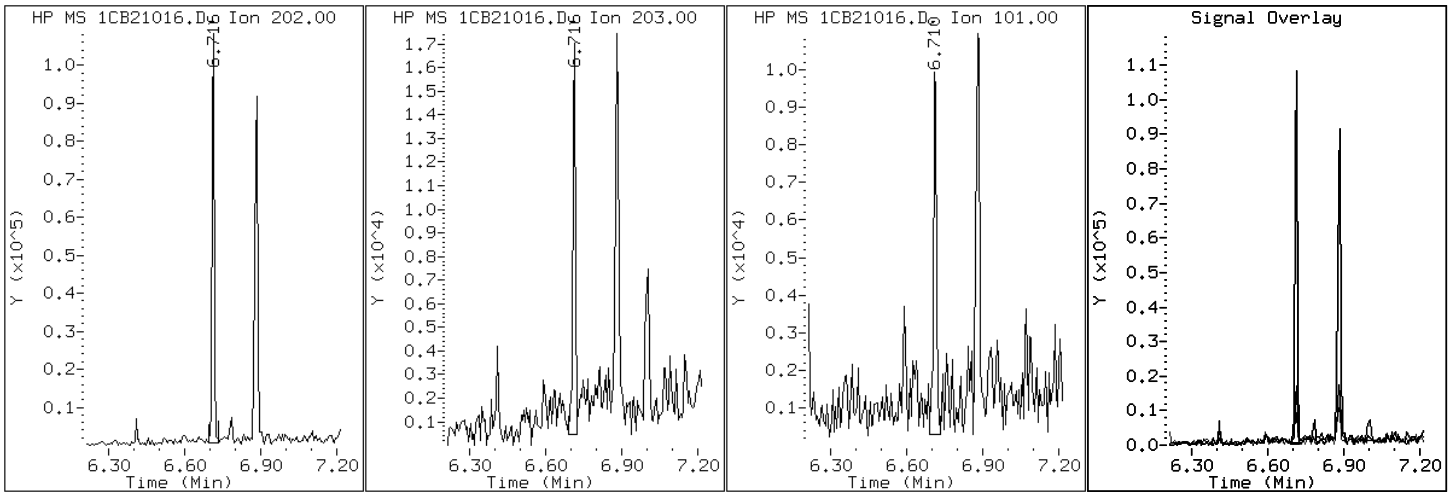
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

15 Fluoranthene



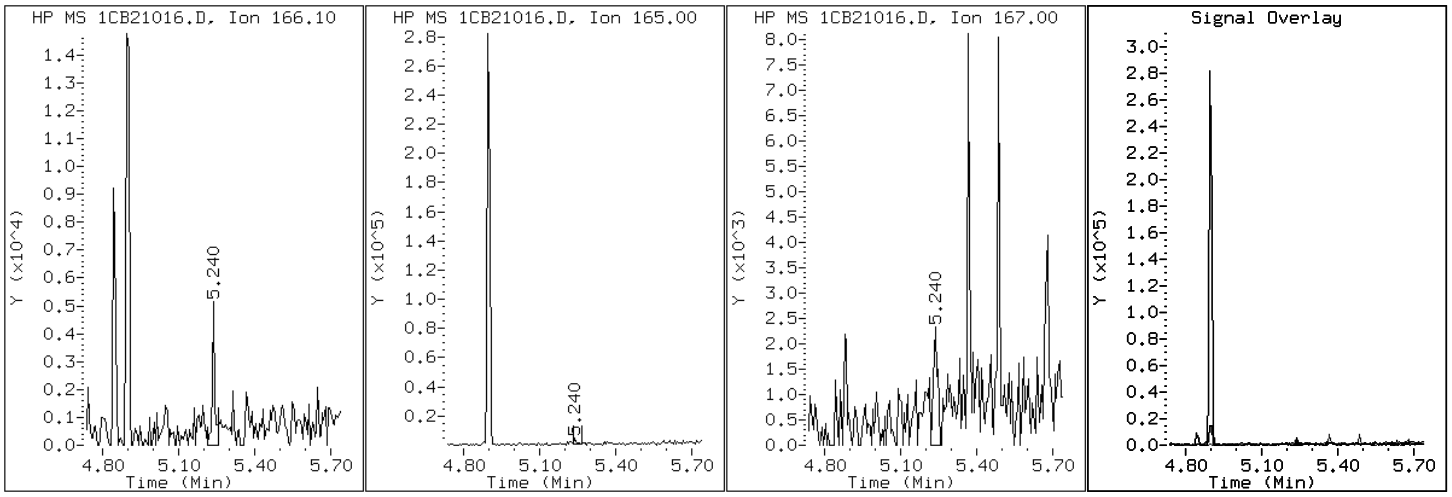
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

9 Fluorene



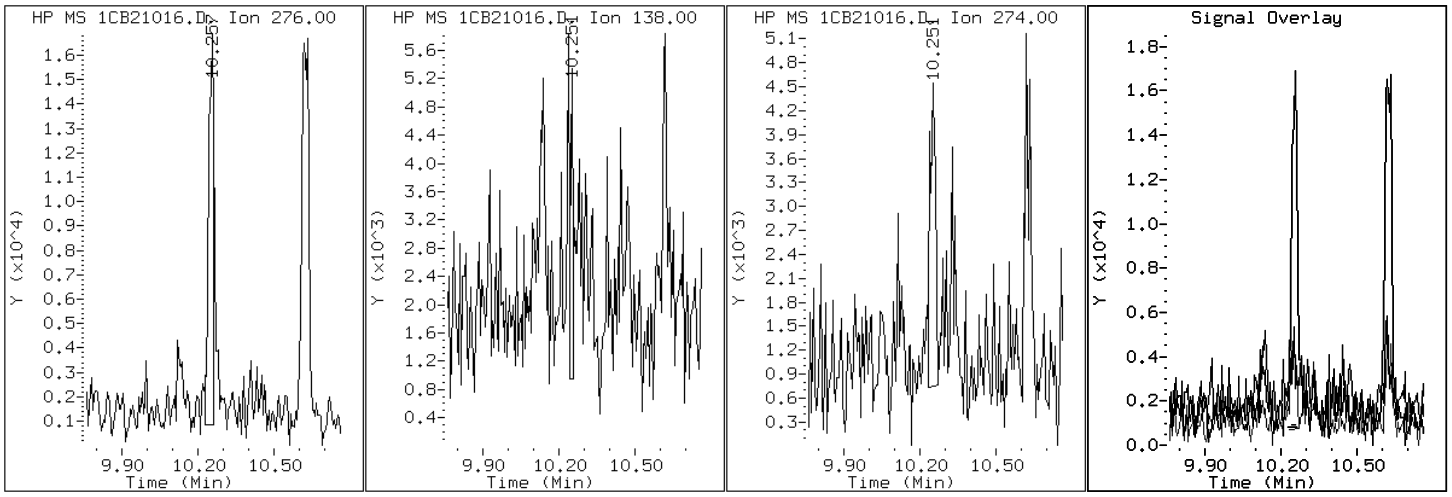
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

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



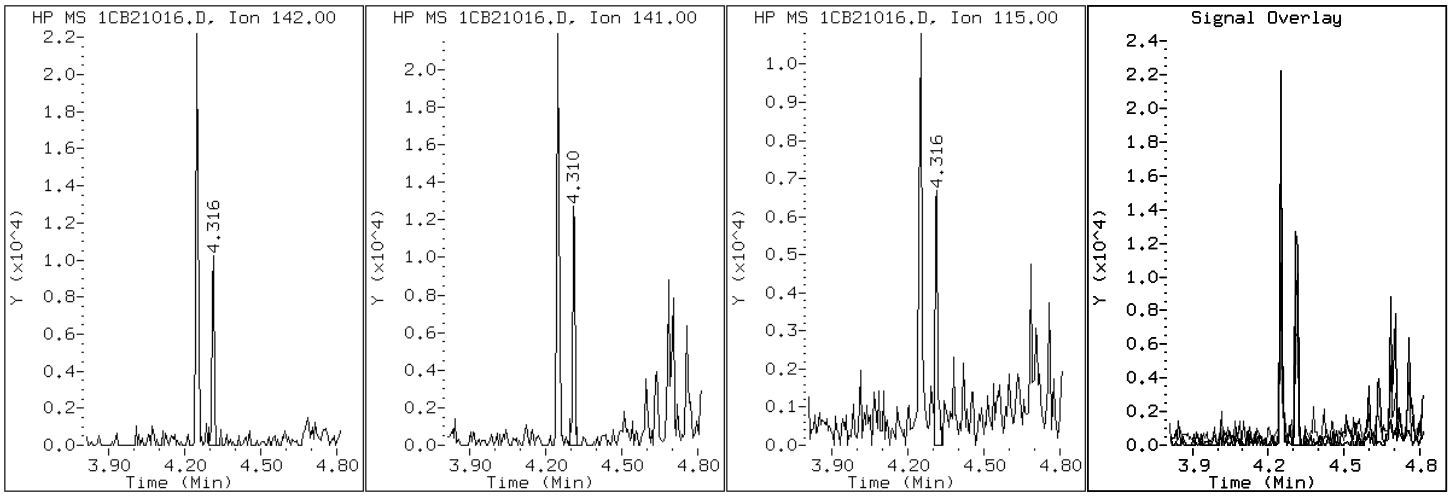
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

4 1-Methylnaphthalene



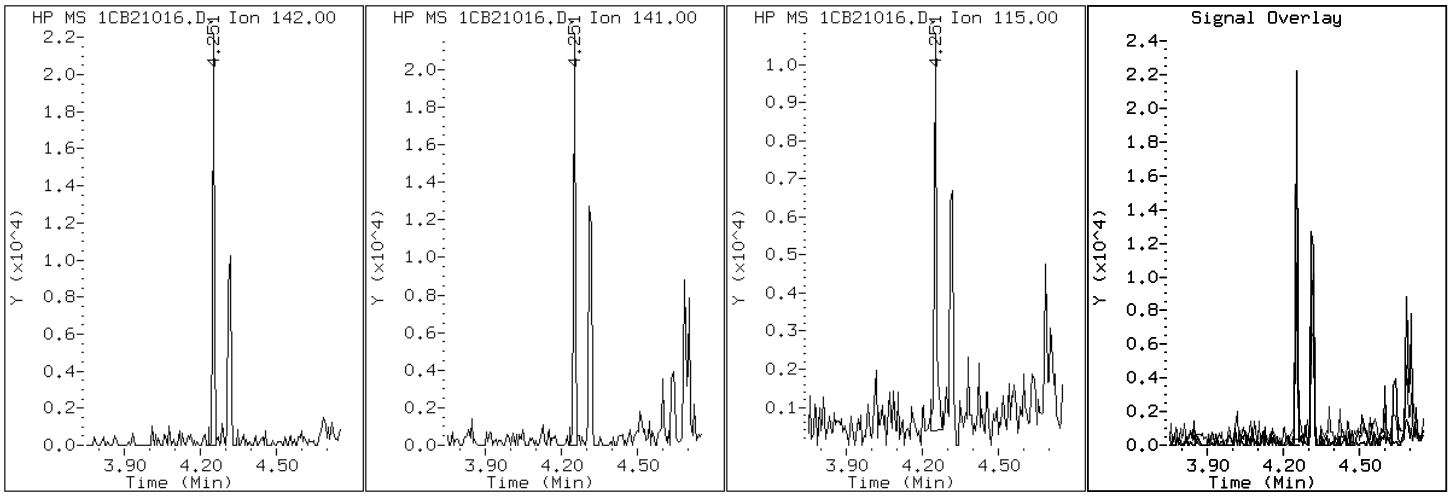
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

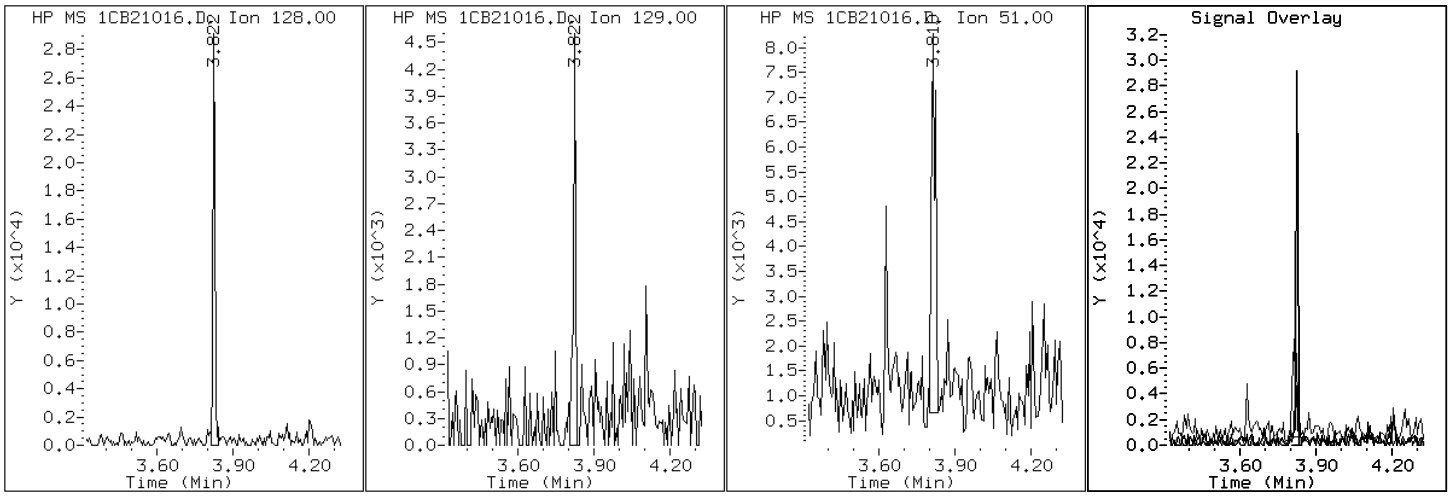
Client ID: CV0971AK-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a

Operator: SCC

2 Naphthalene



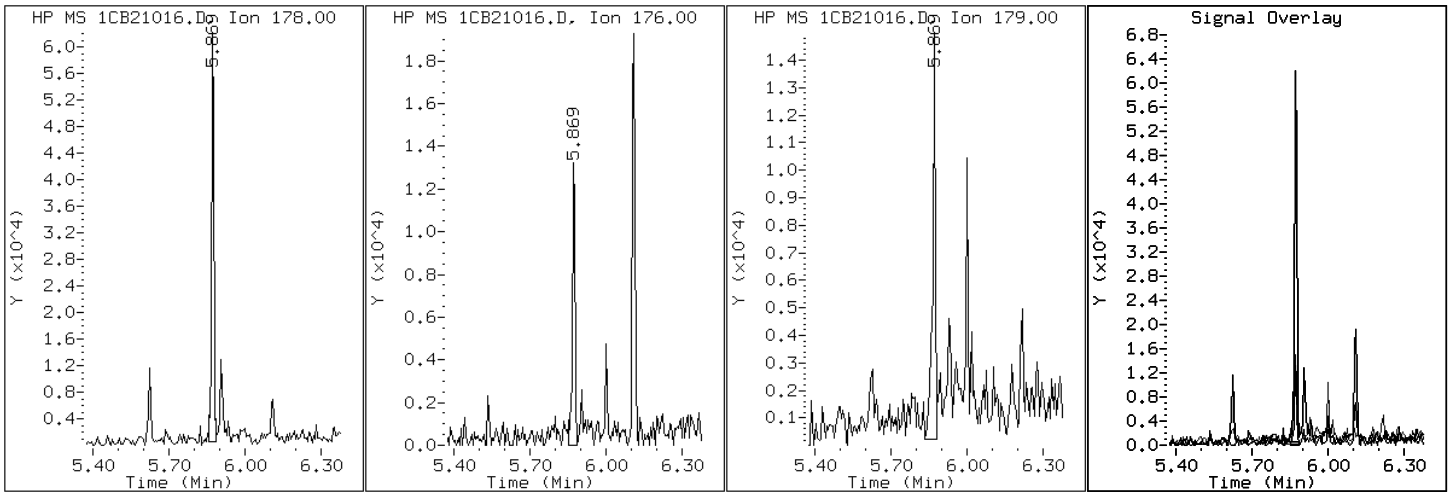
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

11 Phenanthrene



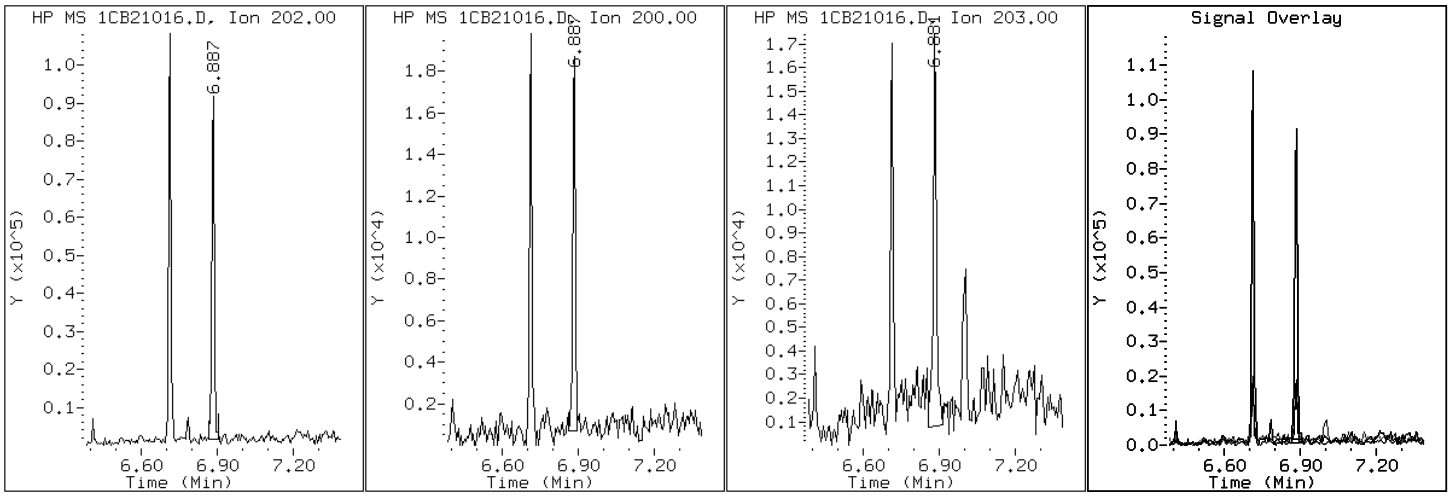
Data File: 1CB21016.D

Date: 21-FEB-2013 15:46

Client ID: CV0971AK-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-32-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21016.D
Inj. Date and Time: 21-FEB-2013 15:46
Instrument ID: BSMC5973.i
Client ID: CV0971AK-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/21/2013

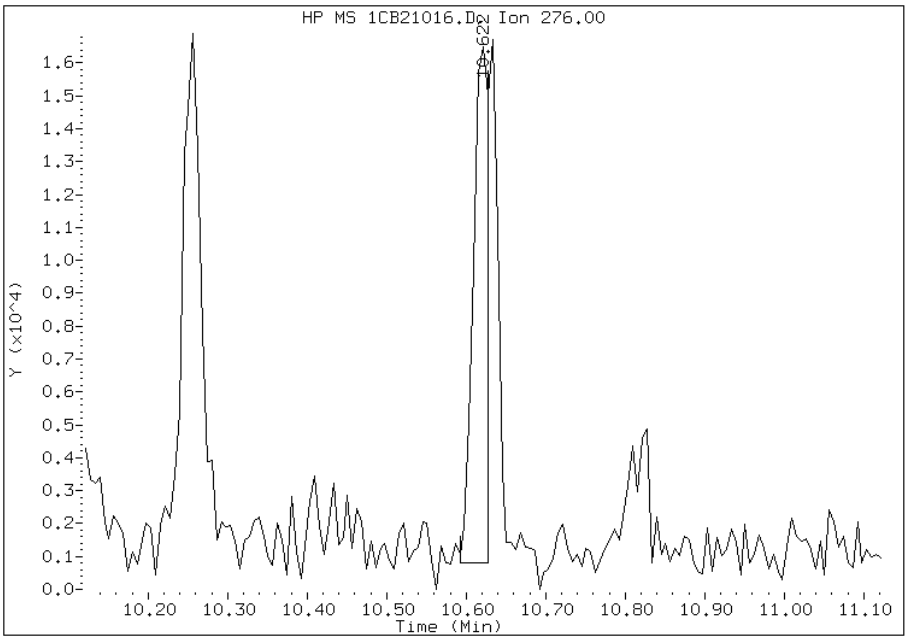
Processing Integration Results

RT: 10.62

Response: 20979

Amount: 0

Conc: 37



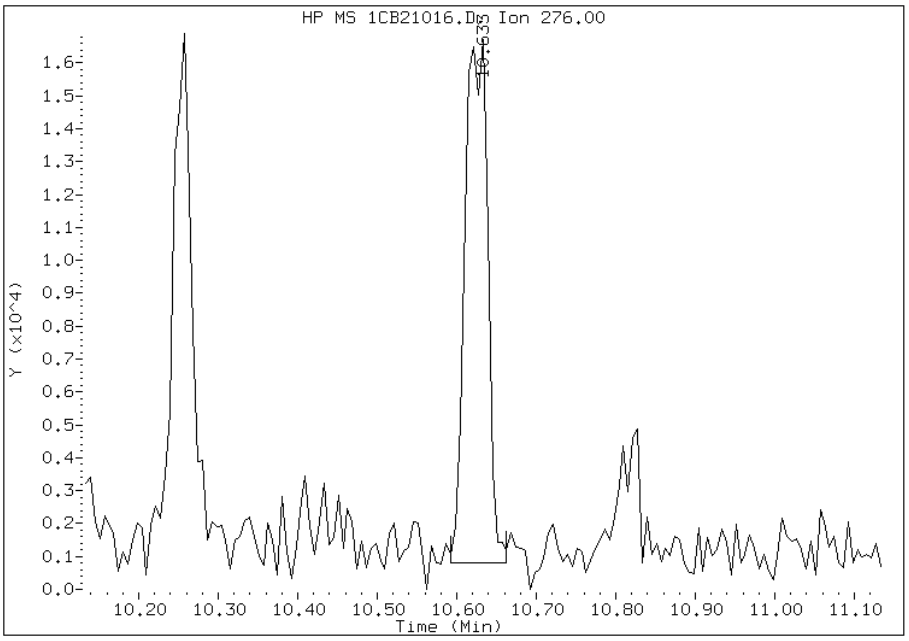
Manual Integration Results

RT: 10.63

Response: 31655

Amount: 1

Conc: 55



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21016.D
Inj. Date and Time: 21-FEB-2013 15:46
Instrument ID: BSMC5973.i
Client ID: CV0971AK-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

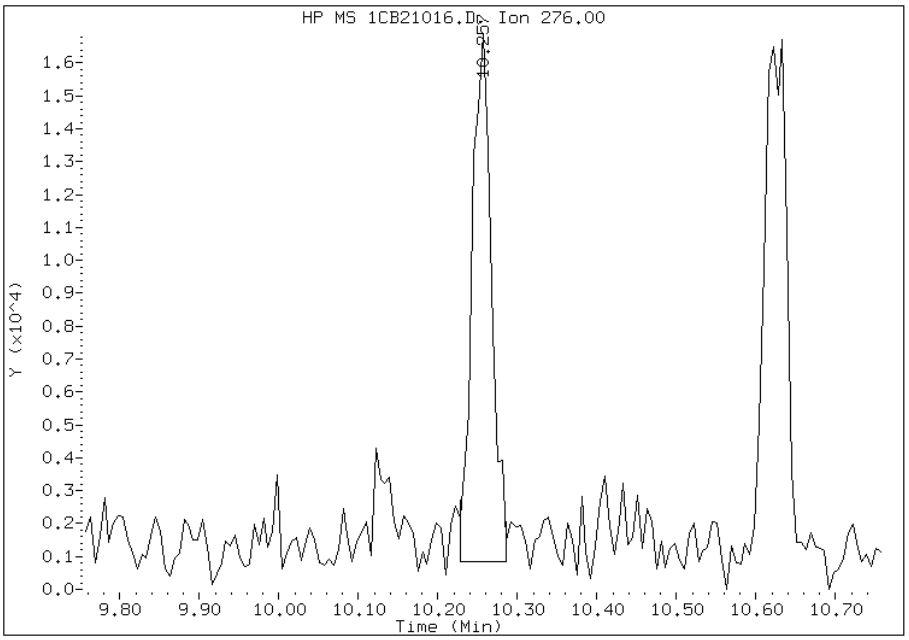
Processing Integration Results

RT: 10.26

Response: 27237

Amount: 1

Conc: 48



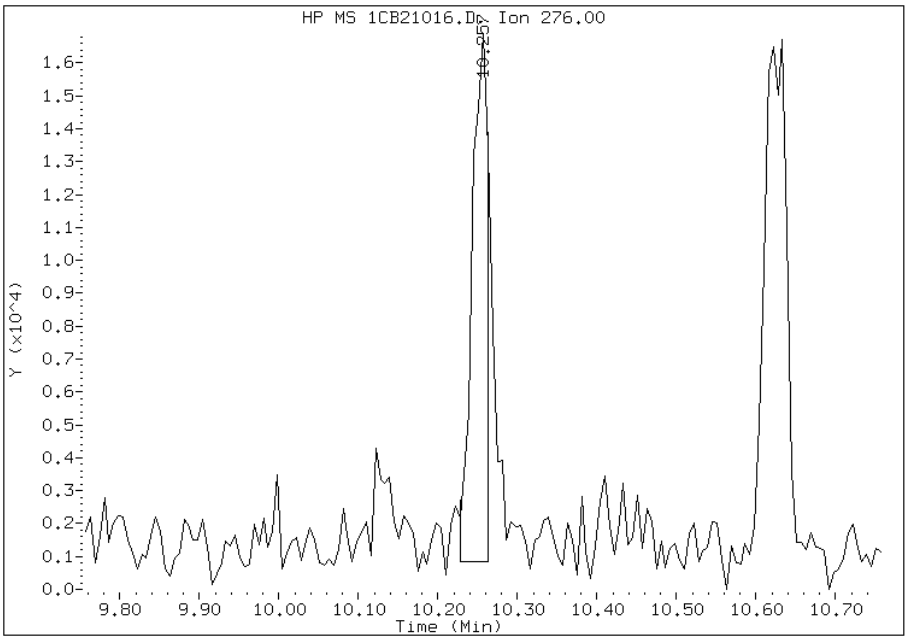
Manual Integration Results

RT: 10.26

Response: 22346

Amount: 0

Conc: 40



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971AL-GS | Lab Sample ID: 680-87496-33

Matrix: Solid | Lab File ID: 1CB21017.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 10:01

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.18(g) | Date Analyzed: 02/21/2013 16:04

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

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

% Moisture: 23.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	8.1	J	52	6.5
120-12-7	Anthracene	11		11	5.4
56-55-3	Benzo[a]anthracene	58		10	5.1
50-32-8	Benzo[a]pyrene	52		13	6.7
205-99-2	Benzo[b]fluoranthene	75		16	7.9
191-24-2	Benzo[g,h,i]perylene	49		26	5.7
207-08-9	Benzo[k]fluoranthene	29		10	4.7
218-01-9	Chrysene	54		12	5.8
53-70-3	Dibenz(a,h)anthracene	11	J	26	5.3
206-44-0	Fluoranthene	81		26	5.2
86-73-7	Fluorene	26	U	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	30		26	9.2
90-12-0	1-Methylnaphthalene	18	J	52	5.7
91-57-6	2-Methylnaphthalene	22	J	52	9.2
91-20-3	Naphthalene	22	J	52	5.7
85-01-8	Phenanthrene	52		10	5.1
129-00-0	Pyrene	83		26	4.8

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\1C022113.b\1CB21017.D
Lab Smp Id: 680-87496-A-33-A Client Smp ID: CV0971AL-GS
Inj Date : 21-FEB-2013 16:04
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-33-a
Misc Info : 680-87496-A-33-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 17
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	23.845	% 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	3.810	3.810	(1.000)	1874031	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1451483	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2560863	40.0000	
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	351392	9.36484	810.0810
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2634293	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2479757	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	12510	0.25192	21.7913(Q)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	8333	0.25807	22.3236
4 1-Methylnaphthalene	142	4.315	4.315	(1.133)	6213	0.21156	18.3007
5 Acenaphthylene	152	4.815	4.815	(0.983)	5421	0.09388	8.1205
11 Phenanthrene	178	5.868	5.874	(1.002)	45900	0.60047	51.9421
12 Anthracene	178	5.904	5.904	(1.008)	9072	0.13173	11.3946
13 Carbazole	167	6.015	6.015	(1.027)	7823	0.13077	11.3120(Q)
15 Fluoranthene	202	6.715	6.715	(1.147)	70176	0.93953	81.2717

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.886	6.886	(0.882)	66945	0.95457	82.5723
17 Benzo(a)anthracene	228	7.803	7.803	(0.999)	48898	0.67312	58.2261
19 Chrysene	228	7.827	7.833	(1.002)	46851	0.62437	54.0092
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	53030	0.87227	75.4532
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	22229	0.33189	28.7094
22 Benzo(a)pyrene	252	8.980	8.974	(0.994)	34842	0.60228	52.0984
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	19317	0.34765	30.0728(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	6913	0.13193	11.4125
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	31932	0.56575	48.9386(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB21017.D

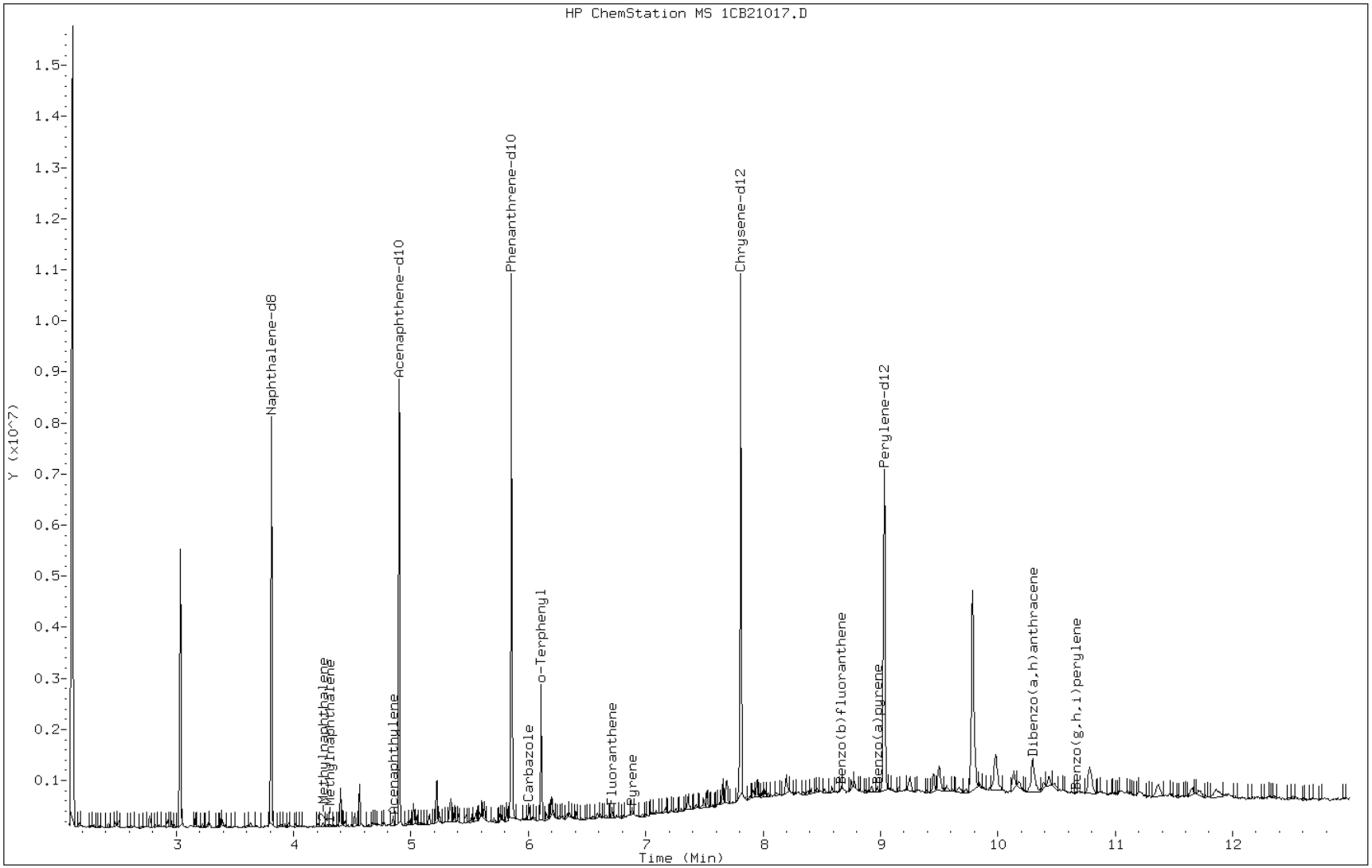
Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a

Operator: SCC



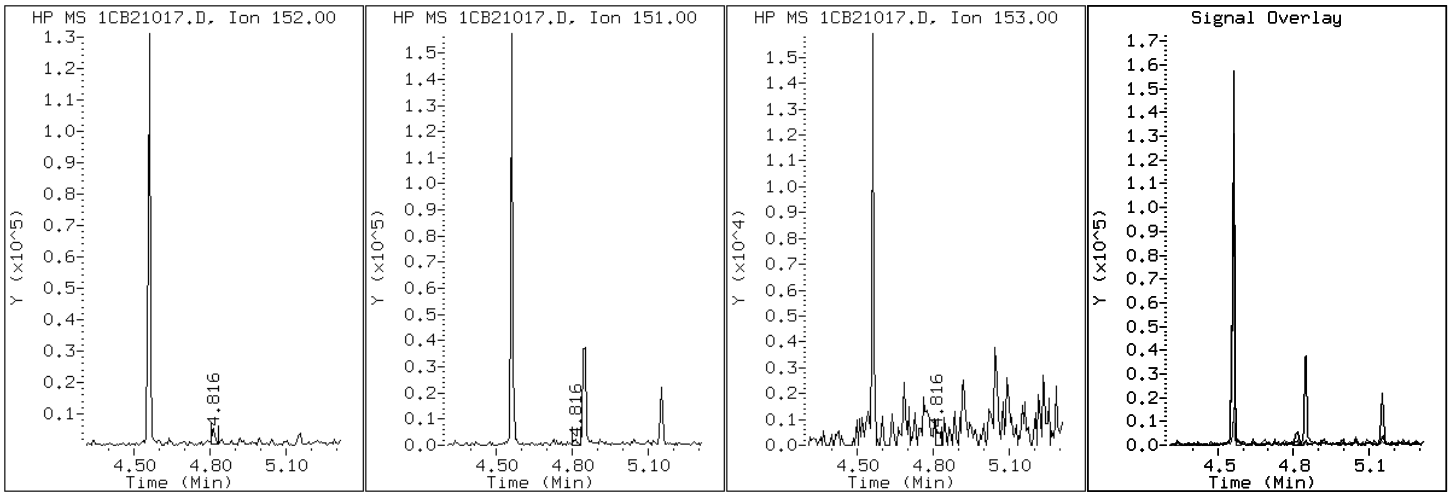
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

5 Acenaphthylene



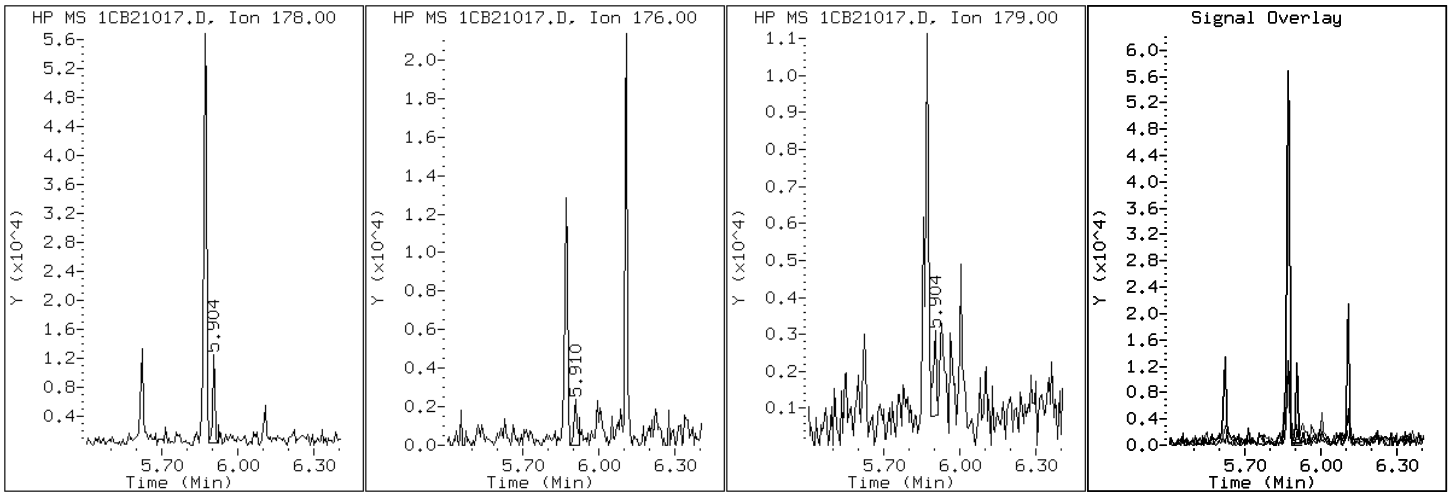
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS | Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a | Operator: SCC

12 Anthracene



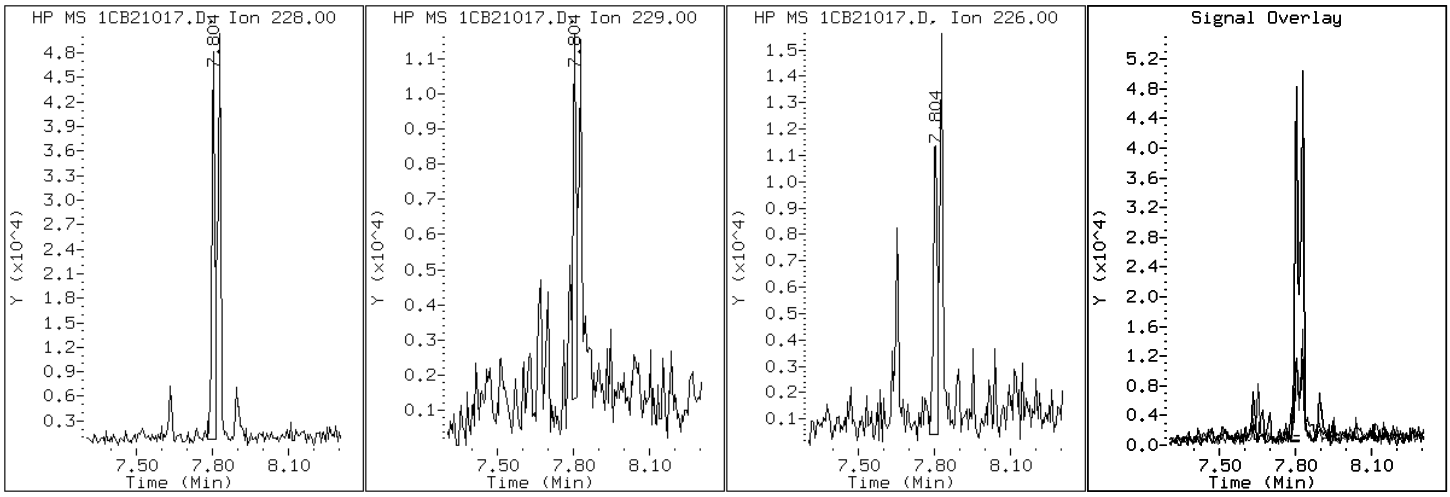
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

17 Benzo(a)anthracene



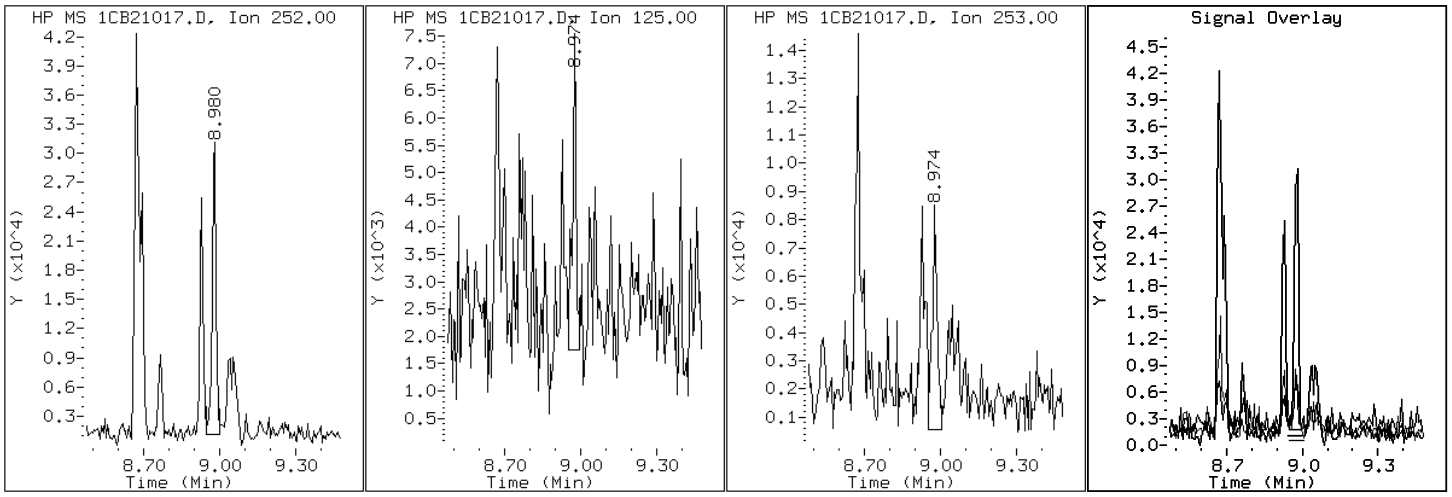
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

22 Benzo(a)pyrene



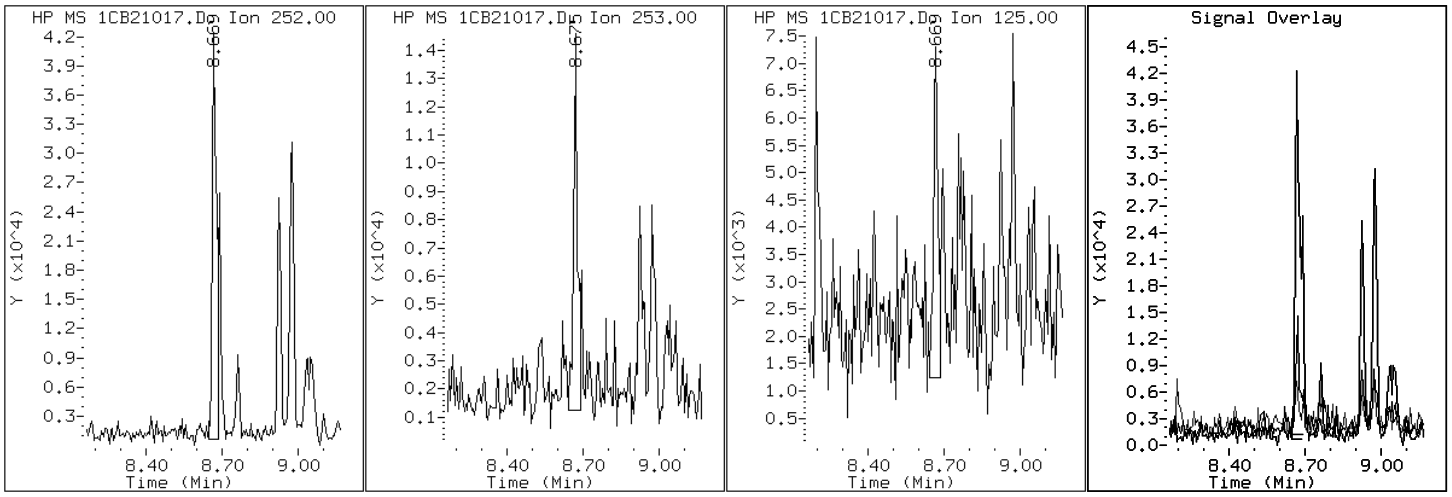
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

20 Benzo(b)fluoranthene



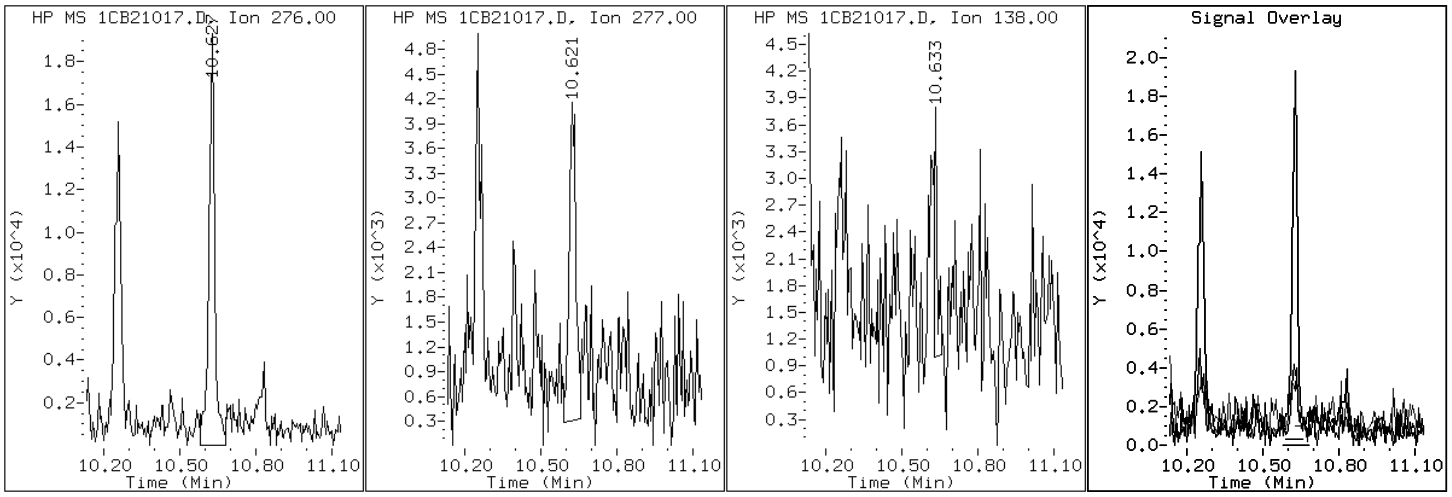
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

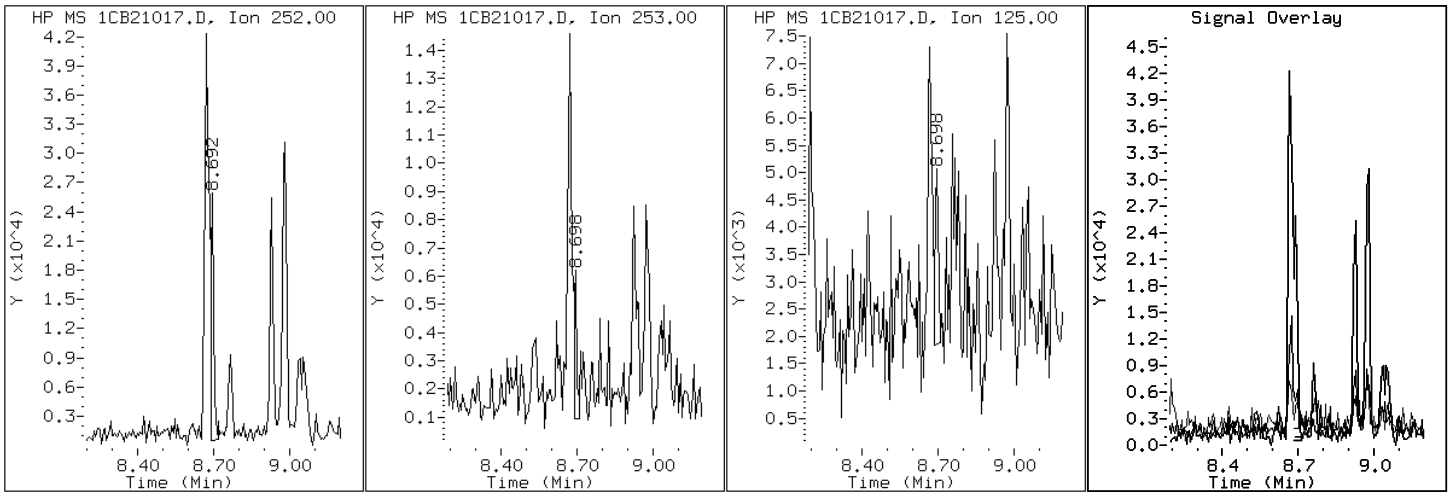
Client ID: CV0971AL-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a

Operator: SCC

21 Benzo(k)fluoranthene



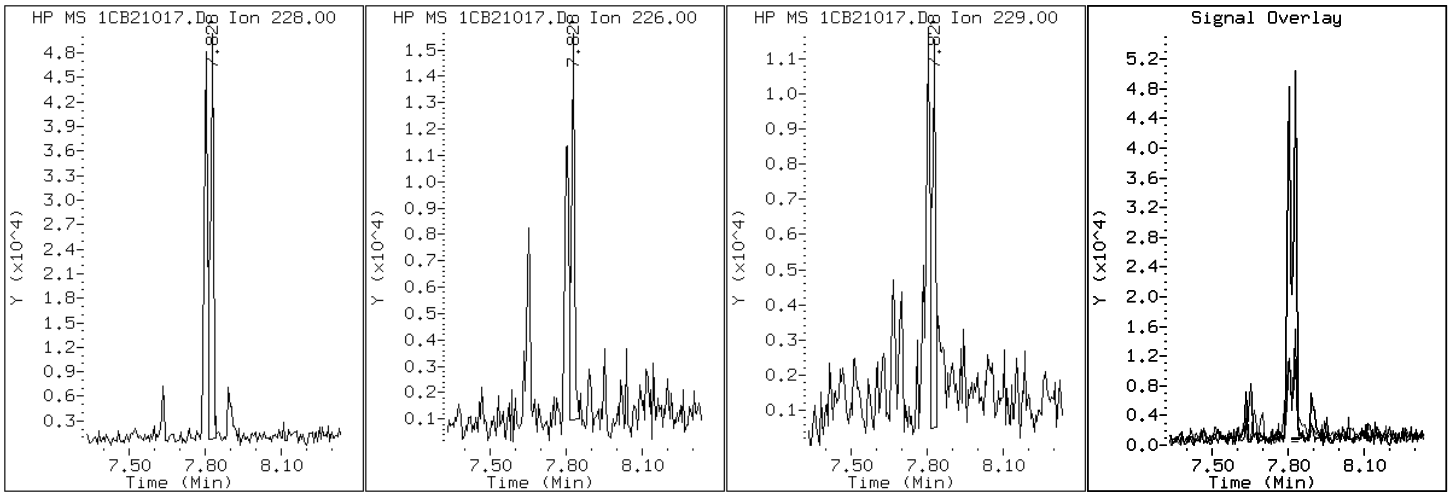
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

19 Chrysene



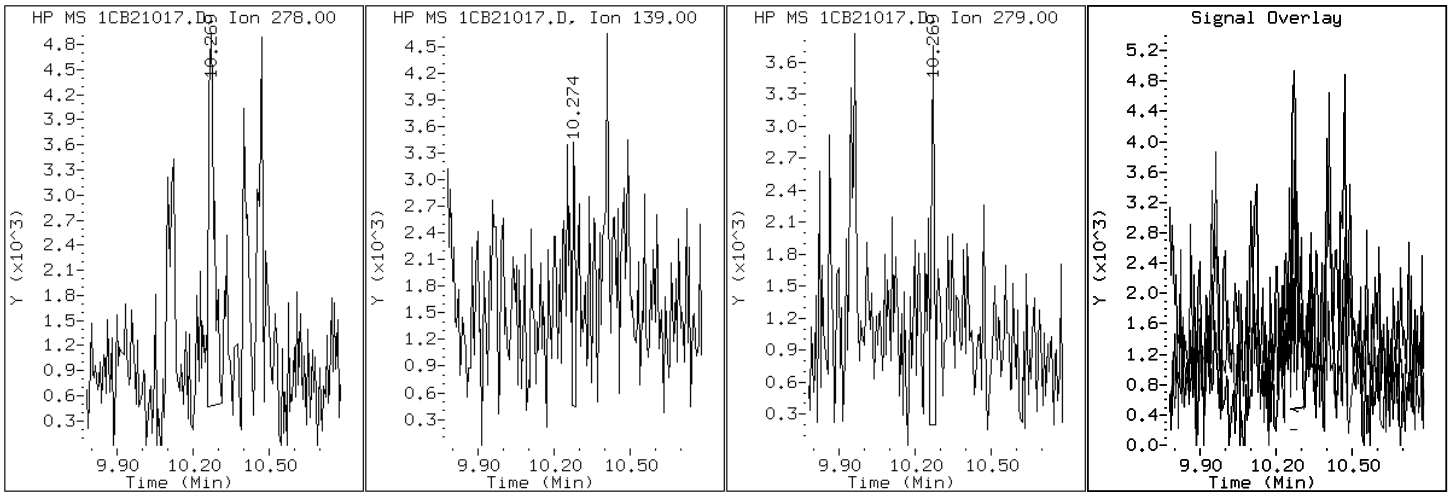
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

25 Dibenzo(a,h)anthracene



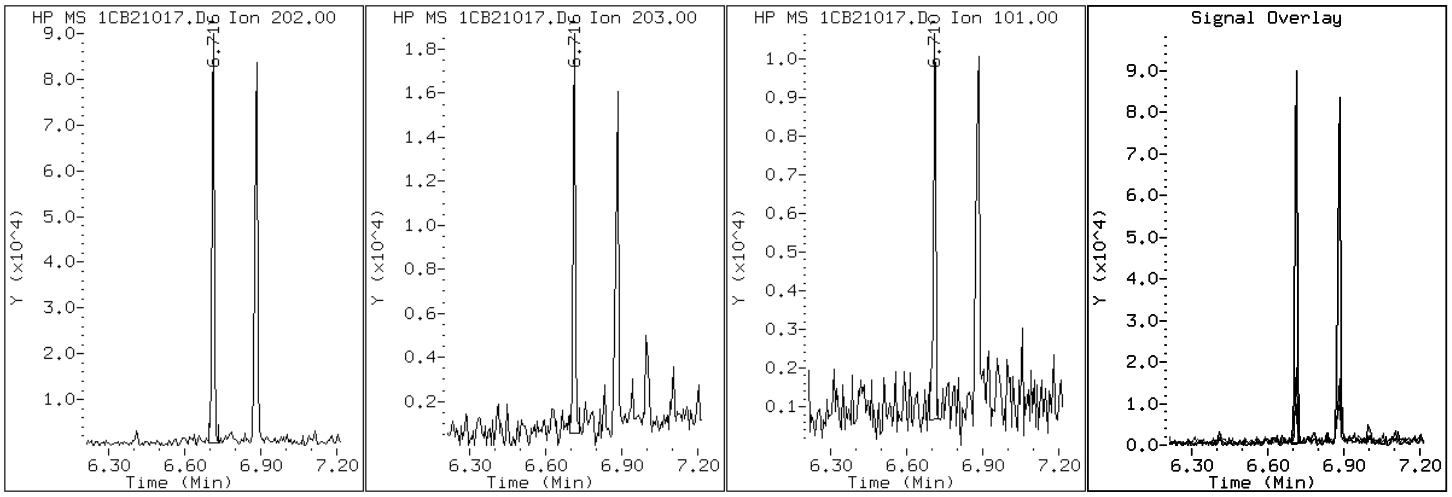
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

15 Fluoranthene



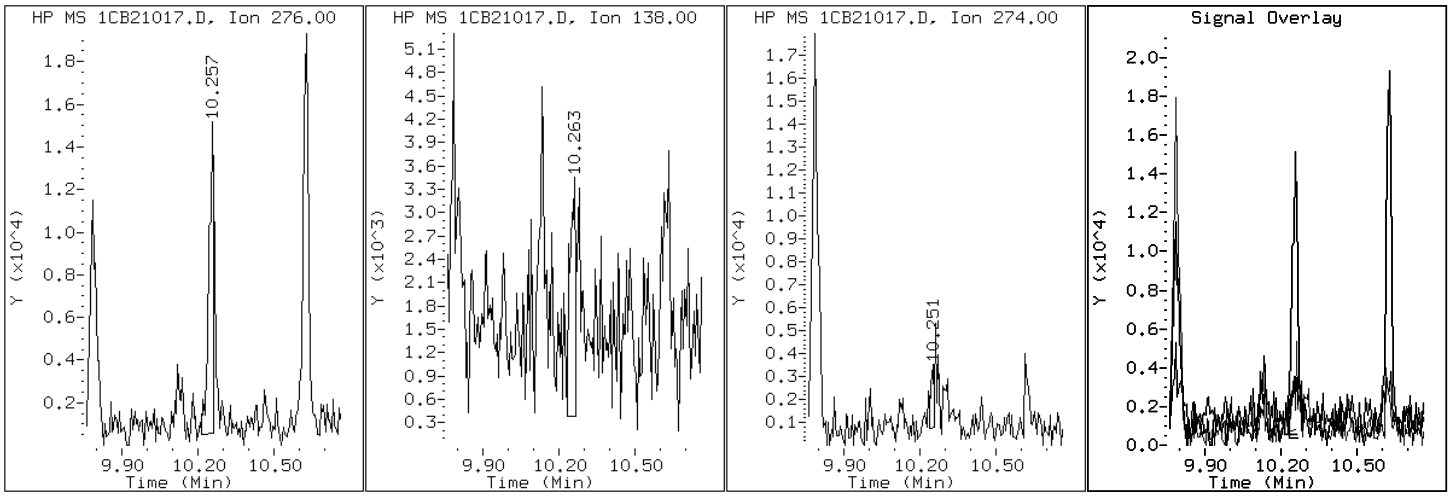
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

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



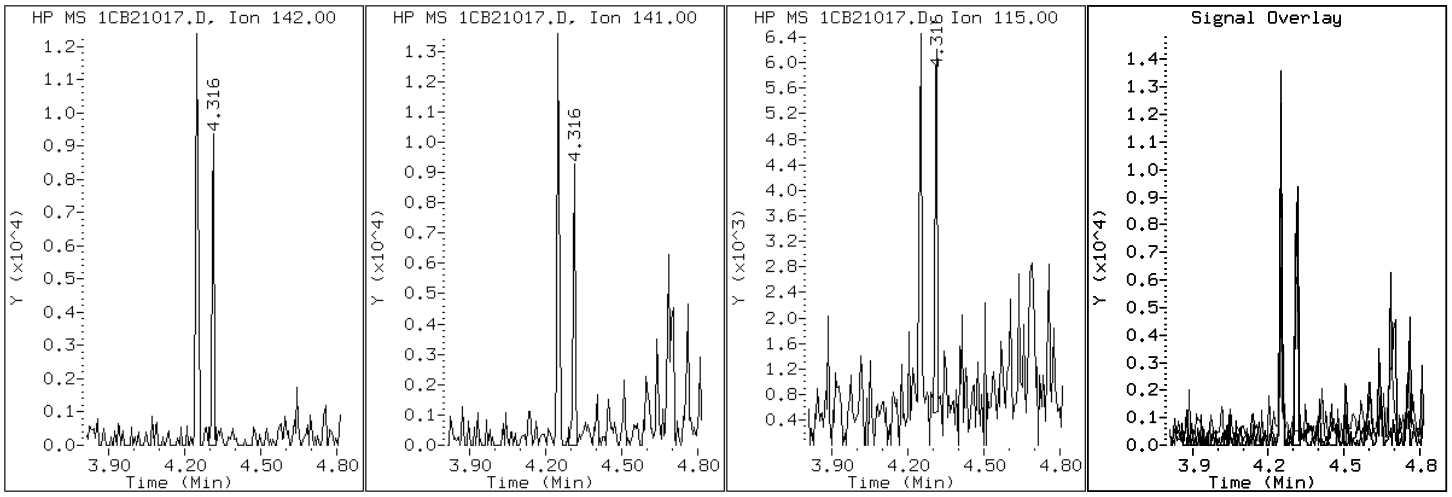
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

4 1-Methylnaphthalene



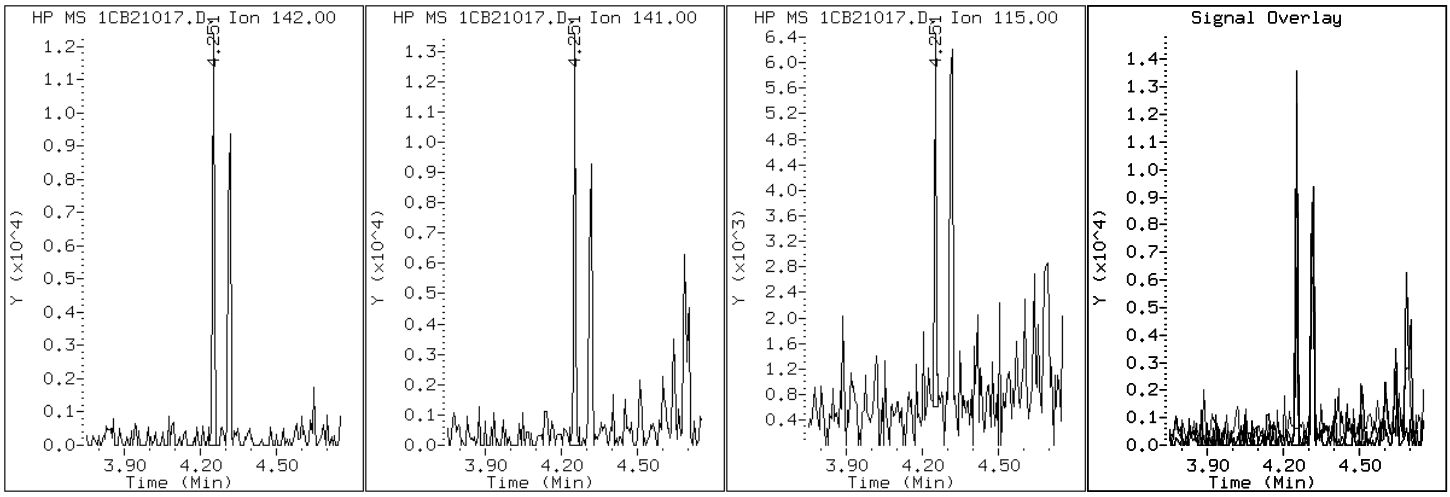
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

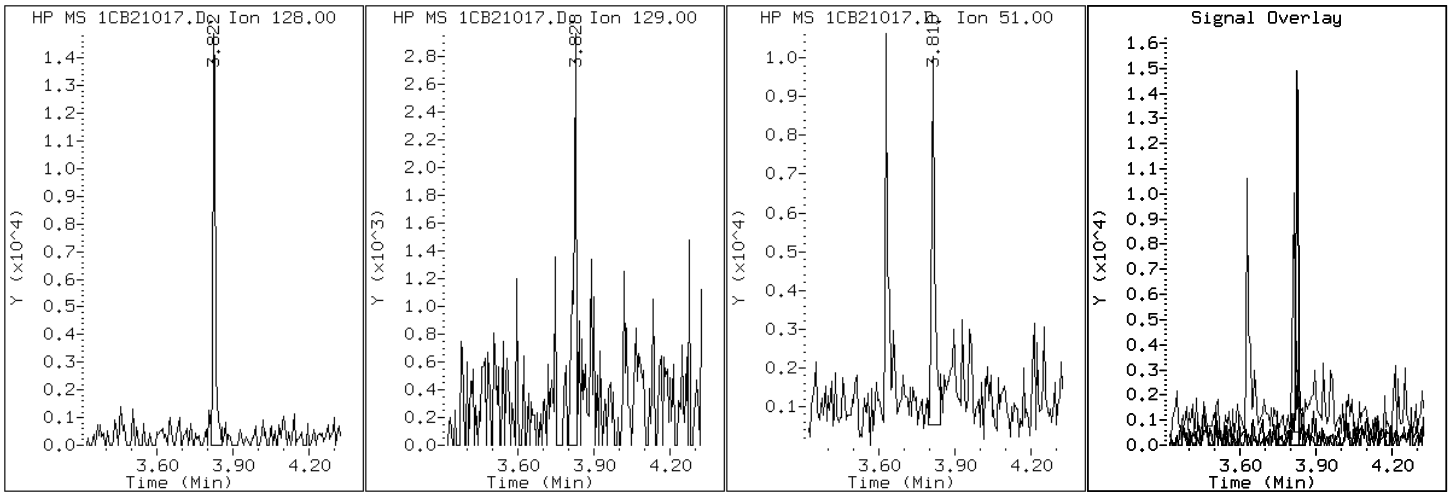
Client ID: CV0971AL-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a

Operator: SCC

2 Naphthalene



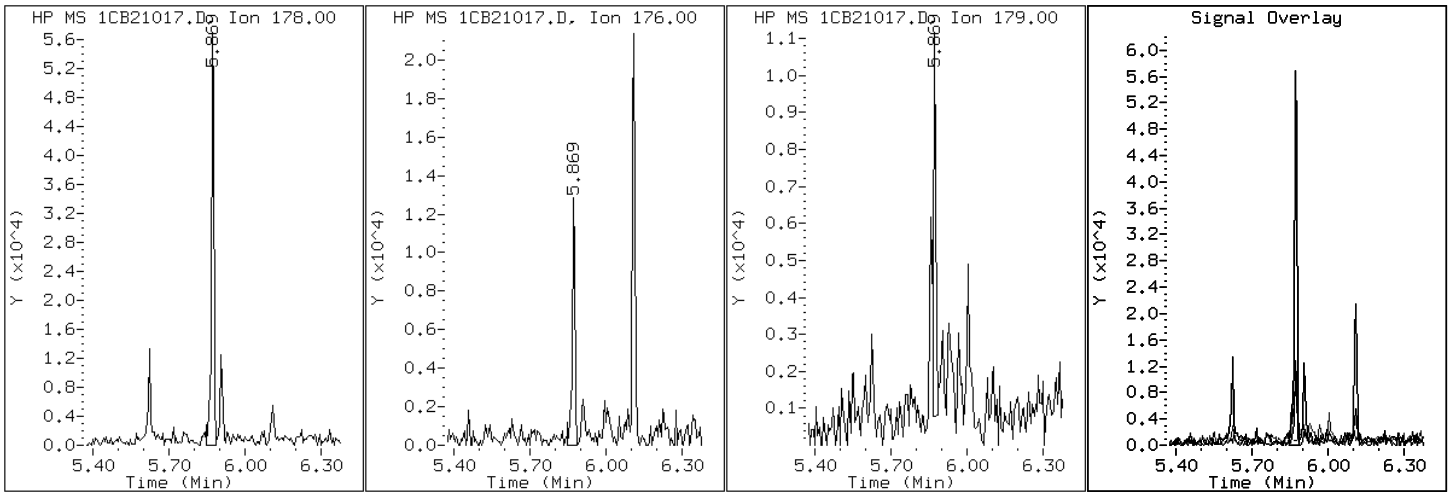
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

11 Phenanthrene



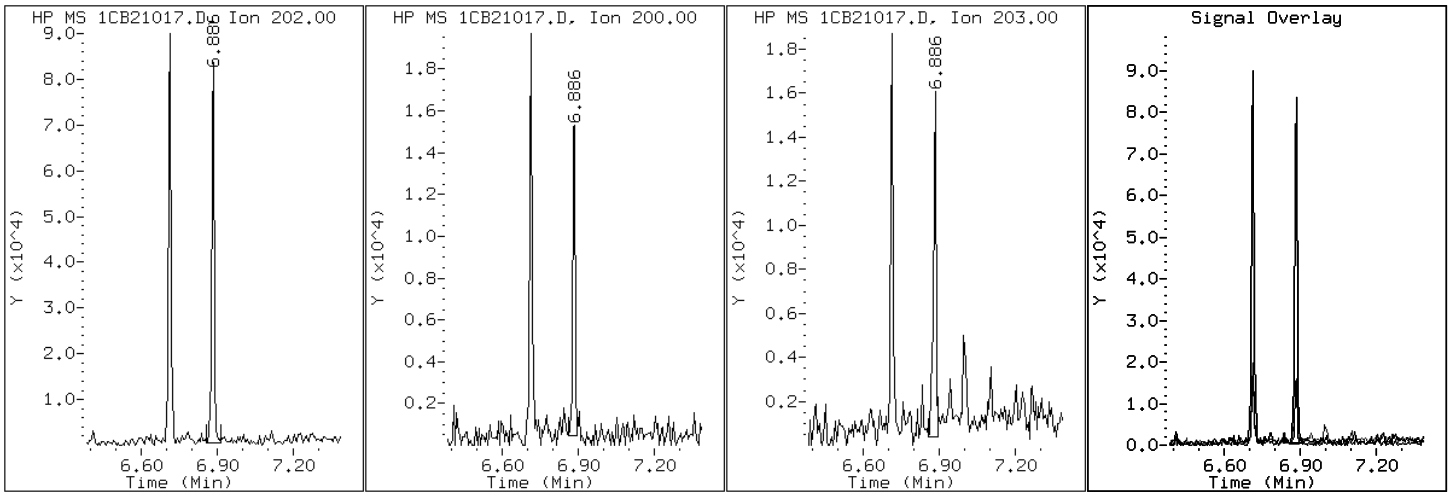
Data File: 1CB21017.D

Date: 21-FEB-2013 16:04

Client ID: CV0971AL-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-33-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21017.D
Inj. Date and Time: 21-FEB-2013 16:04
Instrument ID: BSMC5973.i
Client ID: CV0971AL-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/21/2013

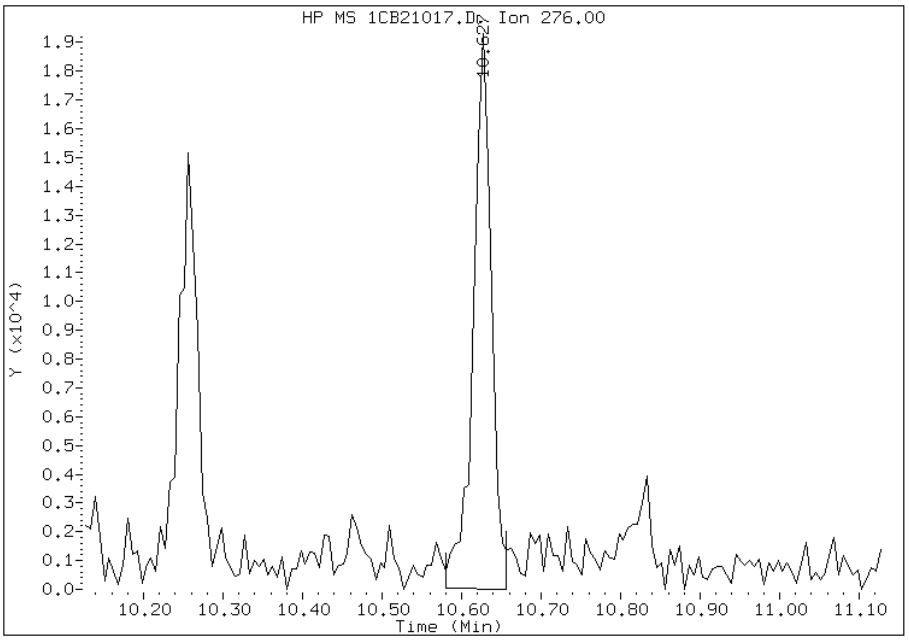
Processing Integration Results

RT: 10.63

Response: 30687

Amount: 1

Conc: 47



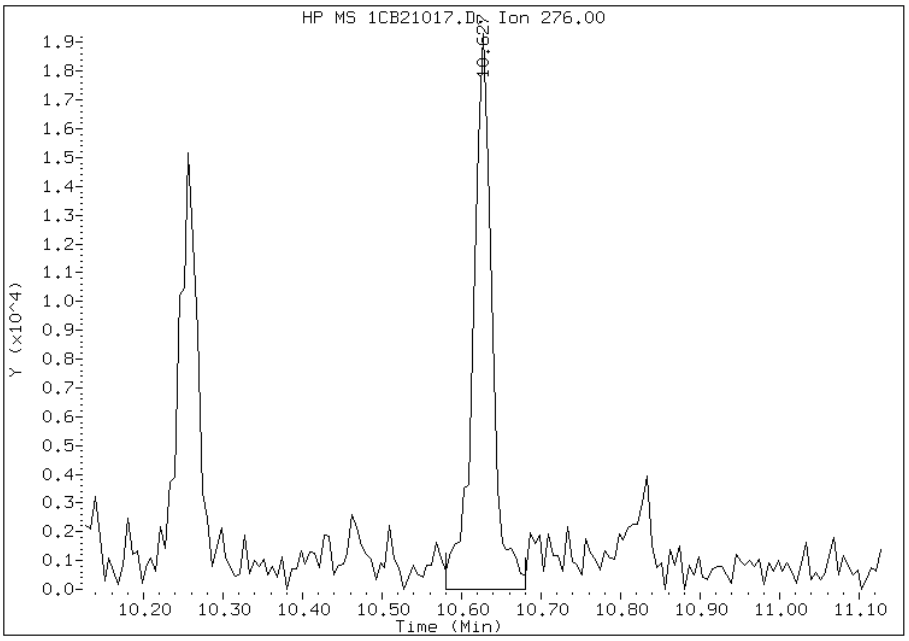
Manual Integration Results

RT: 10.63

Response: 31932

Amount: 1

Conc: 49



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21017.D
Inj. Date and Time: 21-FEB-2013 16:04
Instrument ID: BSMC5973.i
Client ID: CV0971AL-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

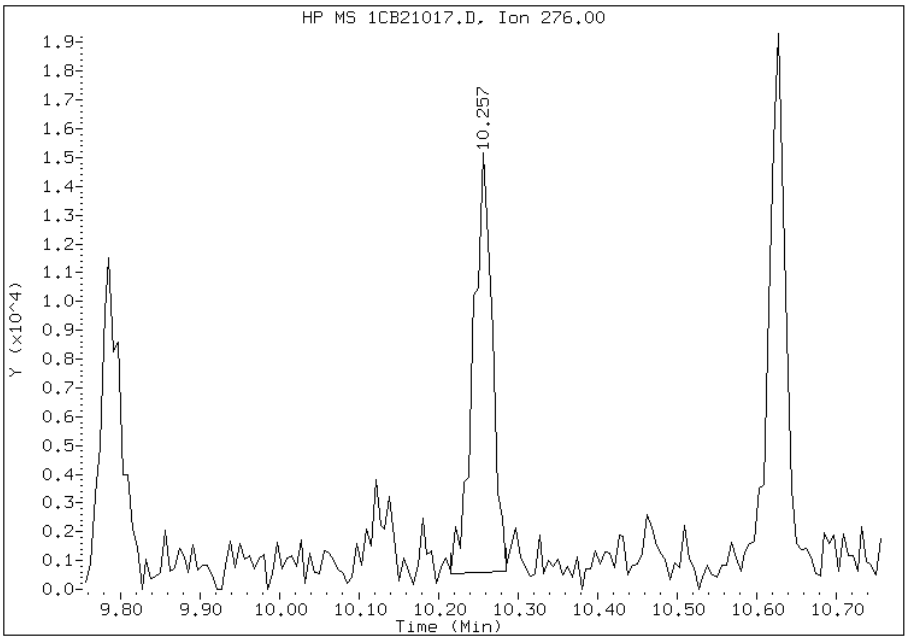
Processing Integration Results

RT: 10.26

Response: 23963

Amount: 0

Conc: 37



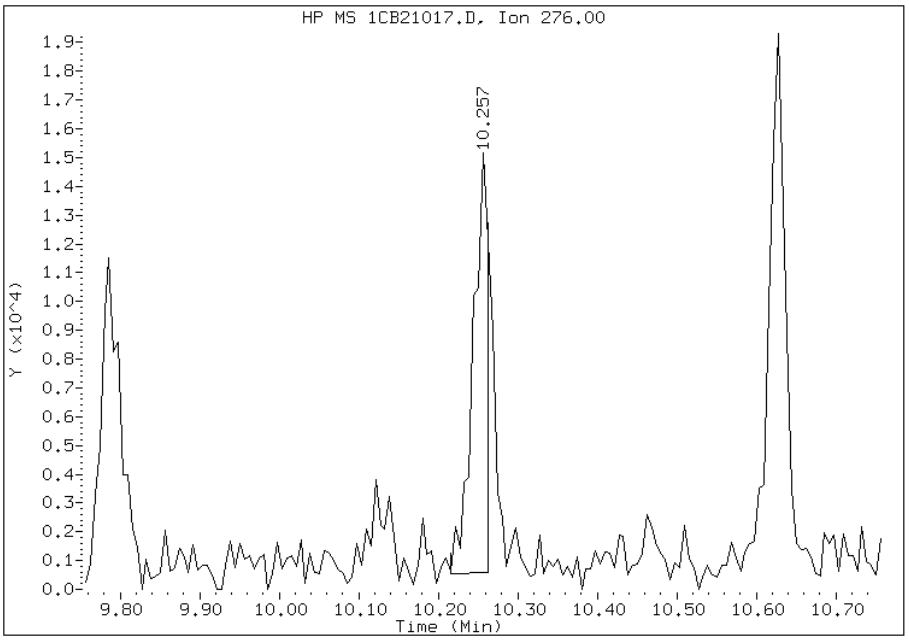
Manual Integration Results

RT: 10.26

Response: 19317

Amount: 0

Conc: 30



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971AM-GS | Lab Sample ID: 680-87496-34

Matrix: Solid | Lab File ID: 1CB21018.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 10:06

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 14.97(g) | Date Analyzed: 02/21/2013 16:23

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

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

% Moisture: 31.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	29
208-96-8	Acenaphthylene	28	J	59	7.3
120-12-7	Anthracene	28		12	6.2
56-55-3	Benzo[a]anthracene	140		12	5.7
50-32-8	Benzo[a]pyrene	150		15	7.6
205-99-2	Benzo[b]fluoranthene	260		18	8.9
191-24-2	Benzo[g,h,i]perylene	110		29	6.4
207-08-9	Benzo[k]fluoranthene	77		12	5.3
218-01-9	Chrysene	180		13	6.6
53-70-3	Dibenz(a,h)anthracene	34		29	6.0
206-44-0	Fluoranthene	320		29	5.9
86-73-7	Fluorene	11	J	29	6.0
193-39-5	Indeno[1,2,3-cd]pyrene	110		29	10
90-12-0	1-Methylnaphthalene	34	J	59	6.4
91-57-6	2-Methylnaphthalene	35	J	59	10
91-20-3	Naphthalene	47	J	59	6.4
85-01-8	Phenanthrene	150		12	5.7
129-00-0	Pyrene	290		29	5.4

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\1C022113.b\1CB21018.D
Lab Smp Id: 680-87496-A-34-A Client Smp ID: CV0971AM-GS
Inj Date : 21-FEB-2013 16:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-34-a
Misc Info : 680-87496-A-34-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 18
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	31.610	% 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	3.810	3.810	(1.000)	1800041	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1340876	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2418856	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	312541	8.81844	861.3495
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2559348	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2369549	40.0000	
2 Naphthalene	128	3.822	3.821	(1.003)	22850	0.47905	46.7915
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	11088	0.35751	34.9197
4 1-Methylnaphthalene	142	4.316	4.315	(1.133)	9783	0.34682	33.8761
5 Acenaphthylene	152	4.810	4.815	(0.982)	15150	0.28400	27.7396
9 Fluorene	166	5.239	5.239	(1.070)	4747	0.11053	10.7960
11 Phenanthrene	178	5.868	5.874	(1.002)	110706	1.53330	149.7664
12 Anthracene	178	5.904	5.904	(1.008)	18775	0.28862	28.1911
13 Carbazole	167	6.015	6.015	(1.027)	16666	0.29495	28.8094

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	233826	3.31430	323.7276
16 Pyrene	202	6.886	6.886	(0.882)	205487	3.01583	294.5743
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	100927	1.43002	139.6781
19 Chrysene	228	7.827	7.833	(1.002)	137266	1.88286	183.9103
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	151941	2.61545	255.4667(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	50408	0.78763	76.9321(QM)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	83711	1.51433	147.9134
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	57560	1.08410	105.8907(M)
25 Dibenzo(a,h)anthracene	278	10.280	10.280	(1.138)	17371	0.34694	33.8877
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	62056	1.15060	112.3861

QC Flag Legend

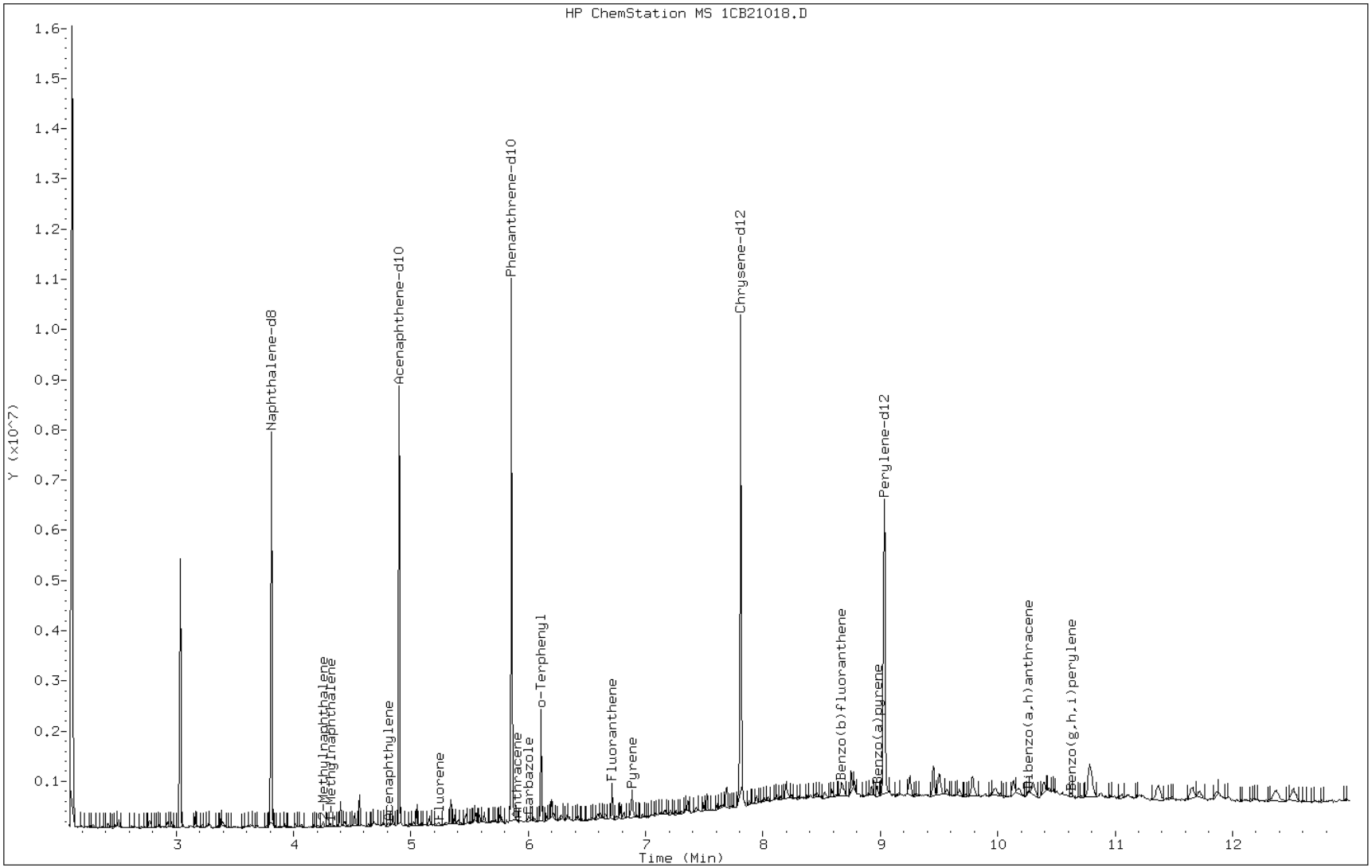
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS | Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a | Operator: SCC



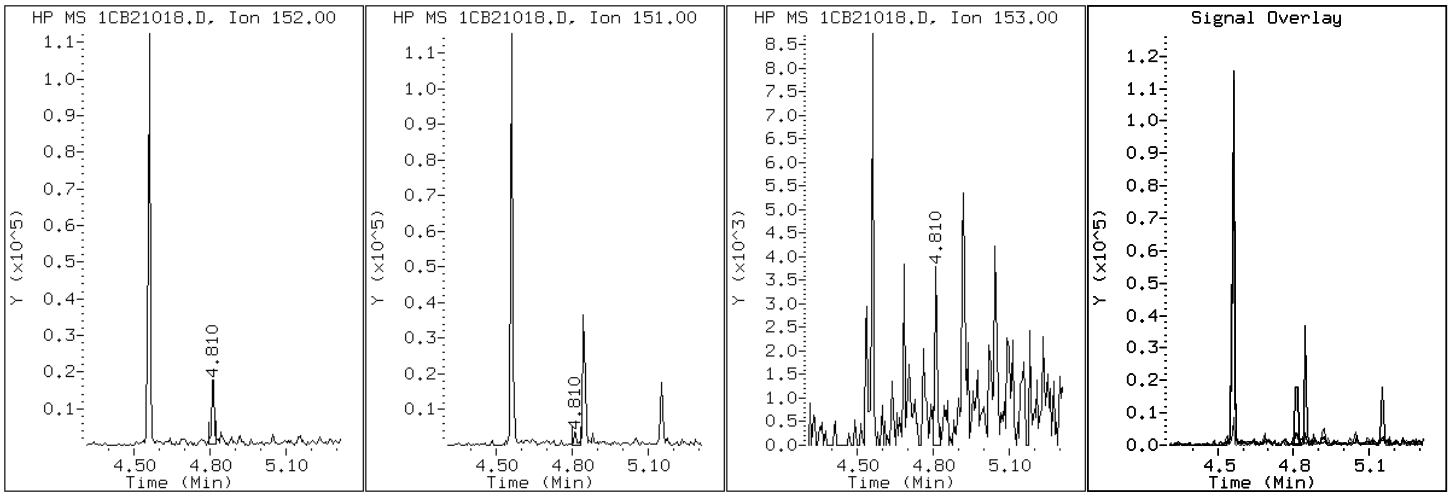
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

5 Acenaphthylene



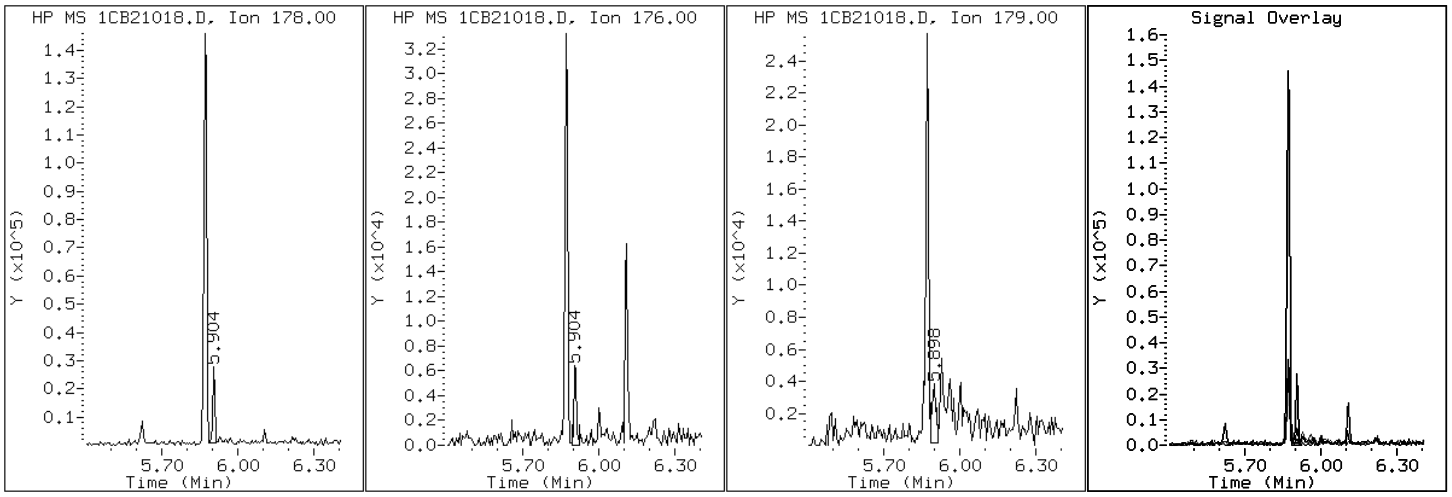
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

12 Anthracene



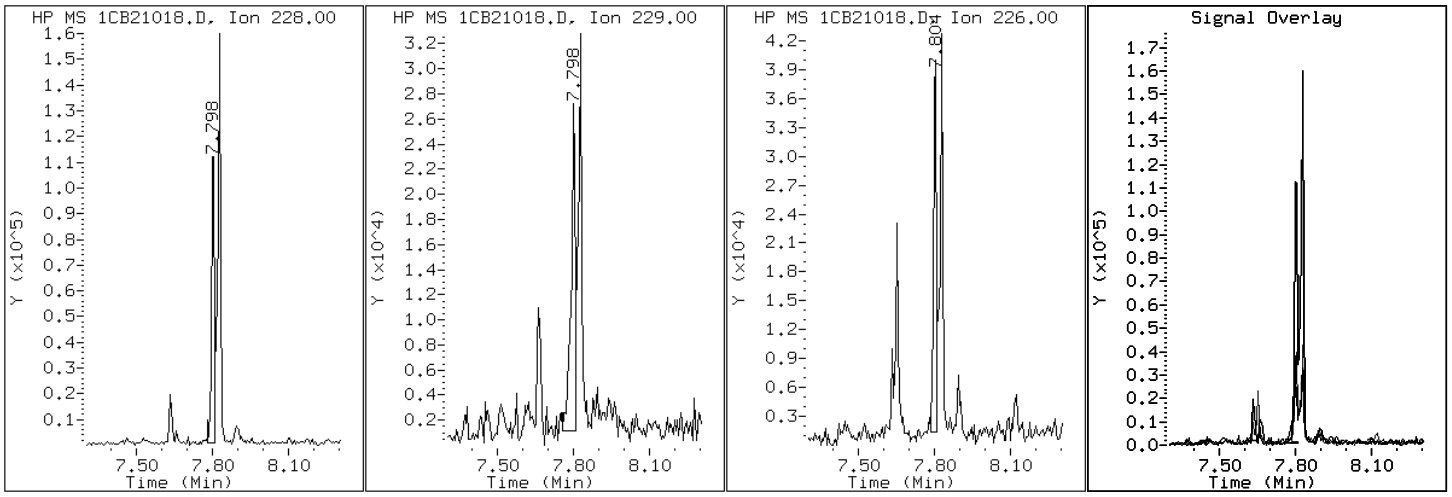
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

17 Benzo(a)anthracene



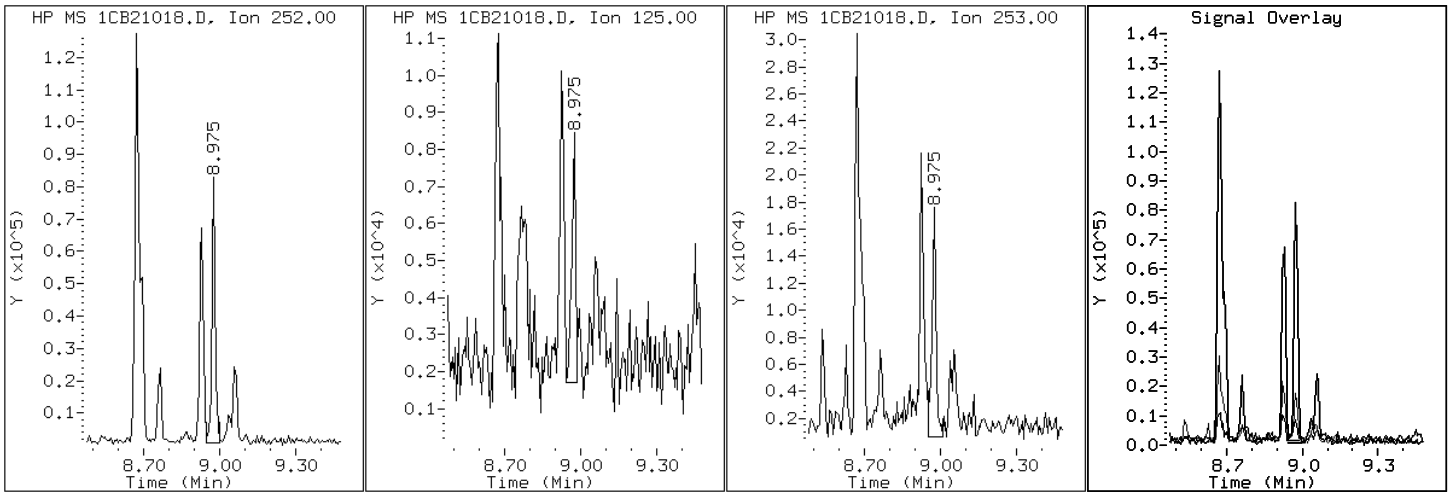
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

22 Benzo(a)pyrene



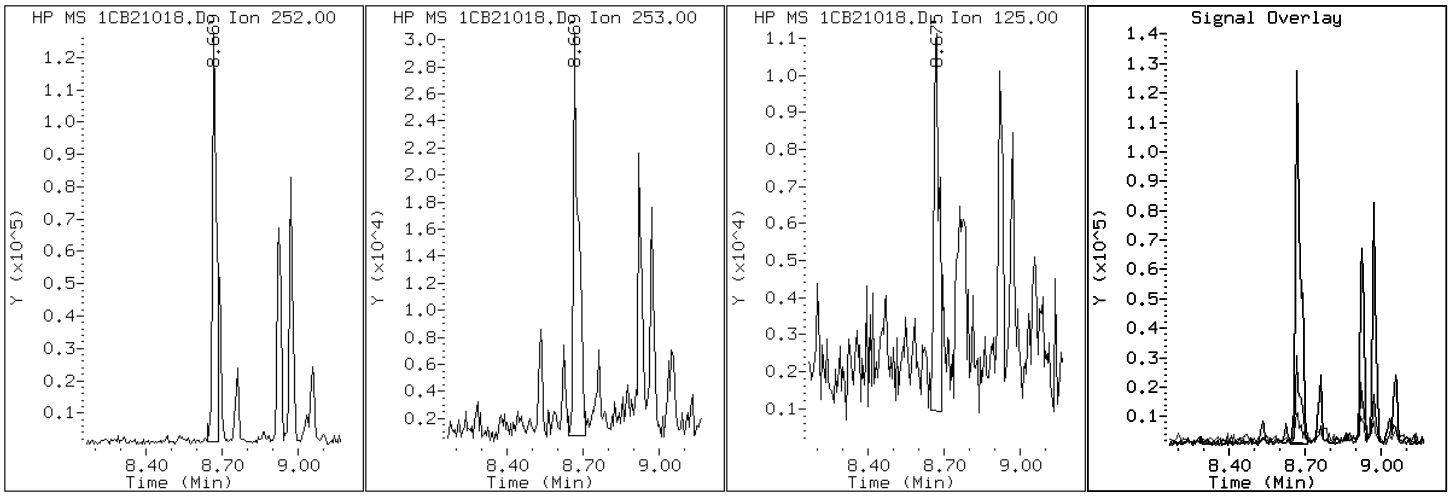
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

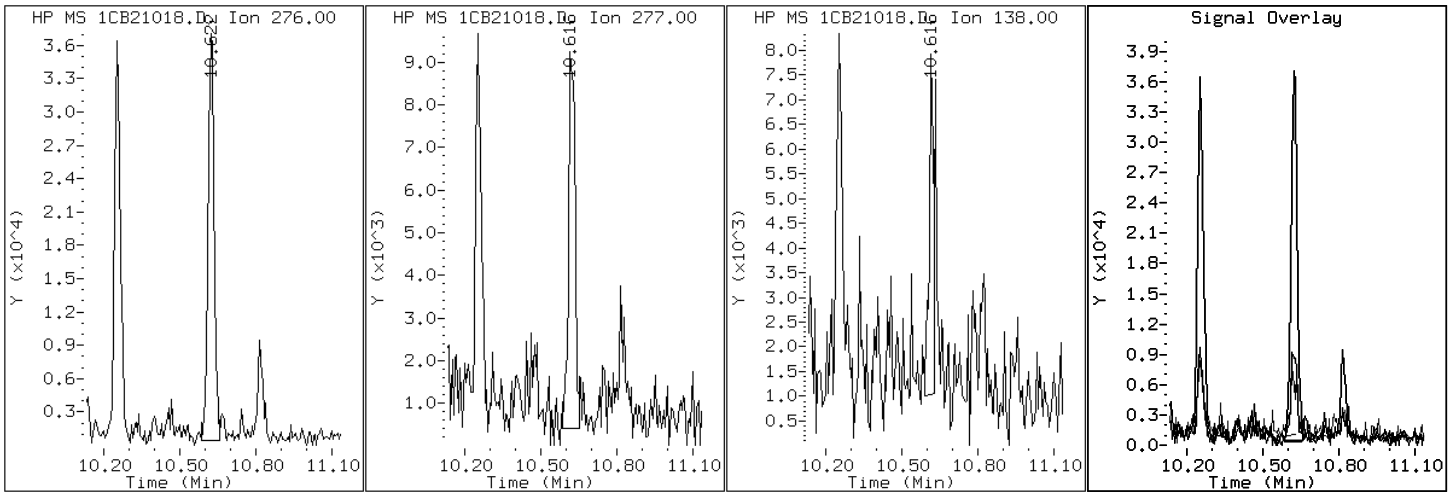
Client ID: CV0971AM-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

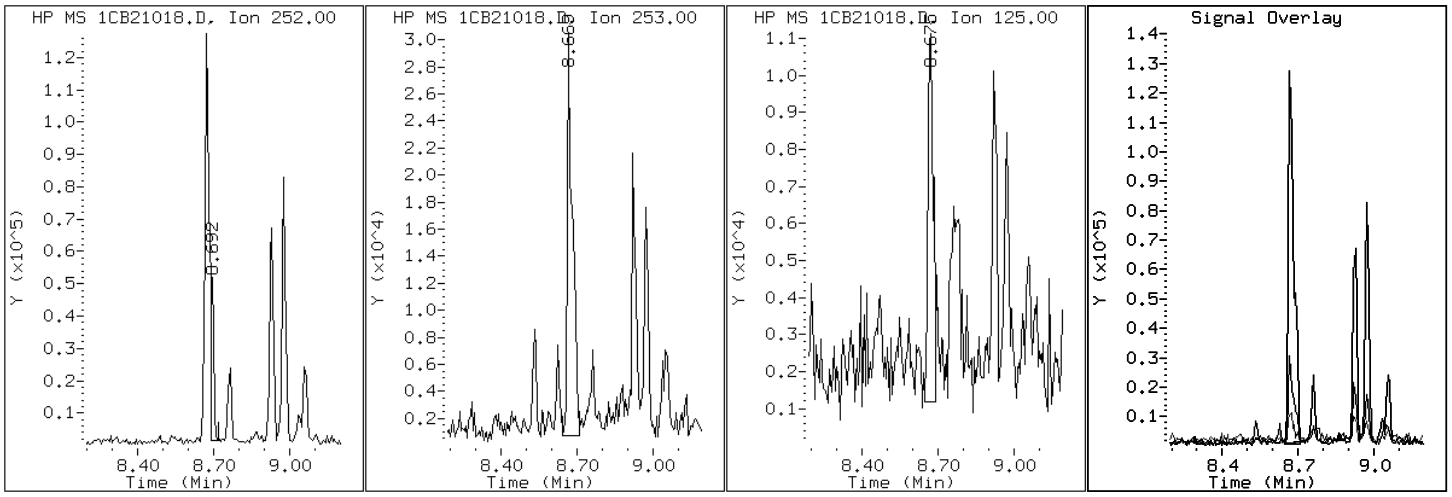
Client ID: CV0971AM-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a

Operator: SCC

21 Benzo(k)fluoranthene



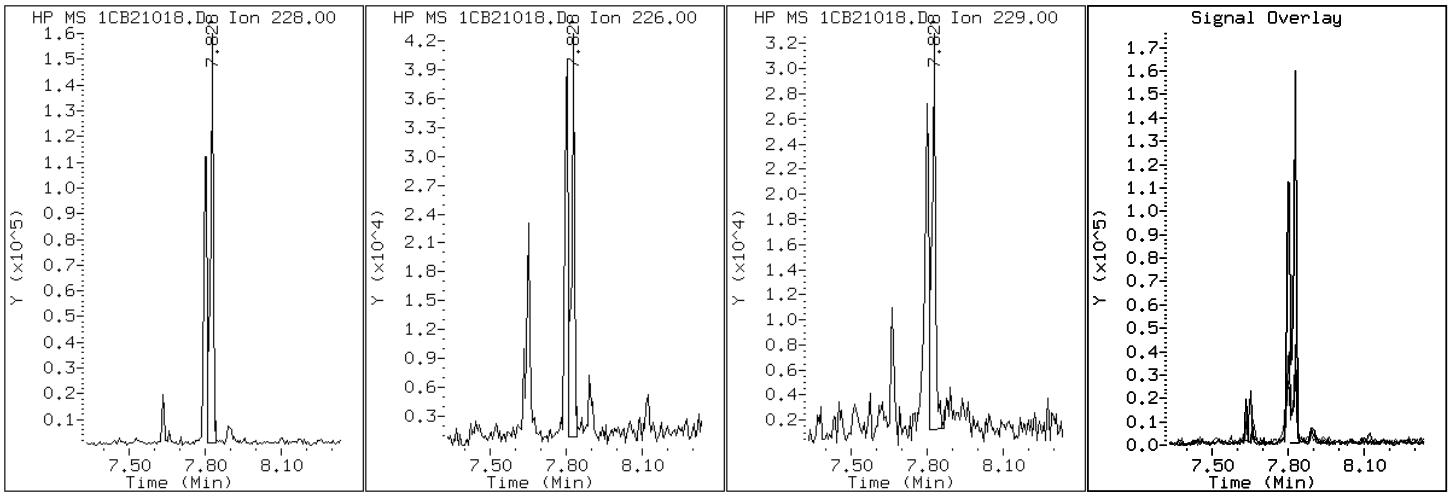
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

19 Chrysene



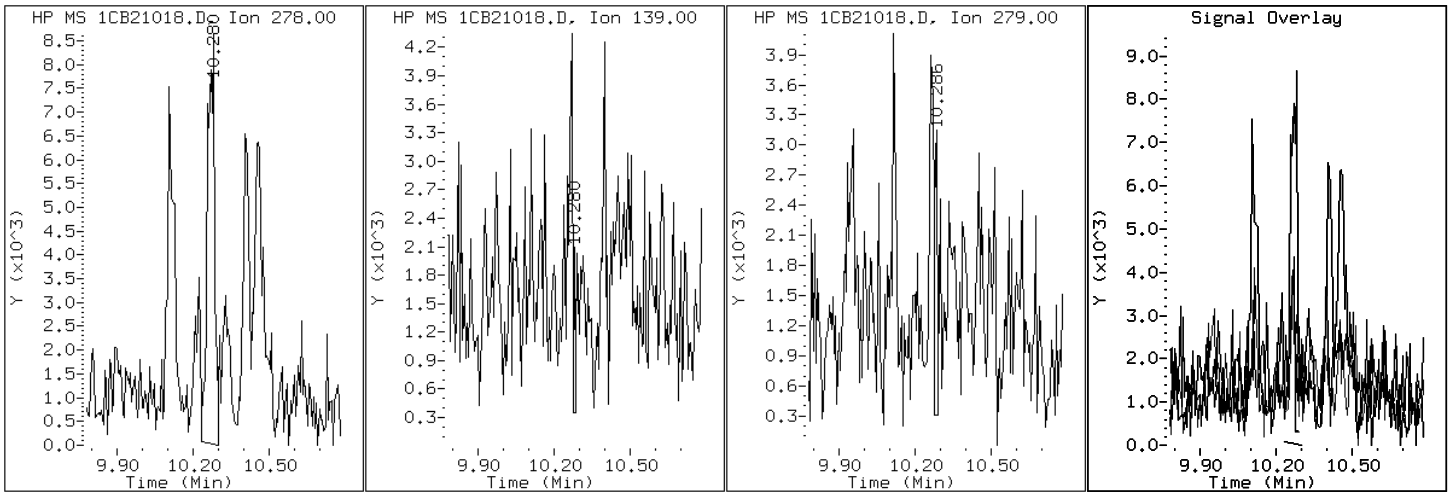
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

25 Dibenzo(a,h)anthracene



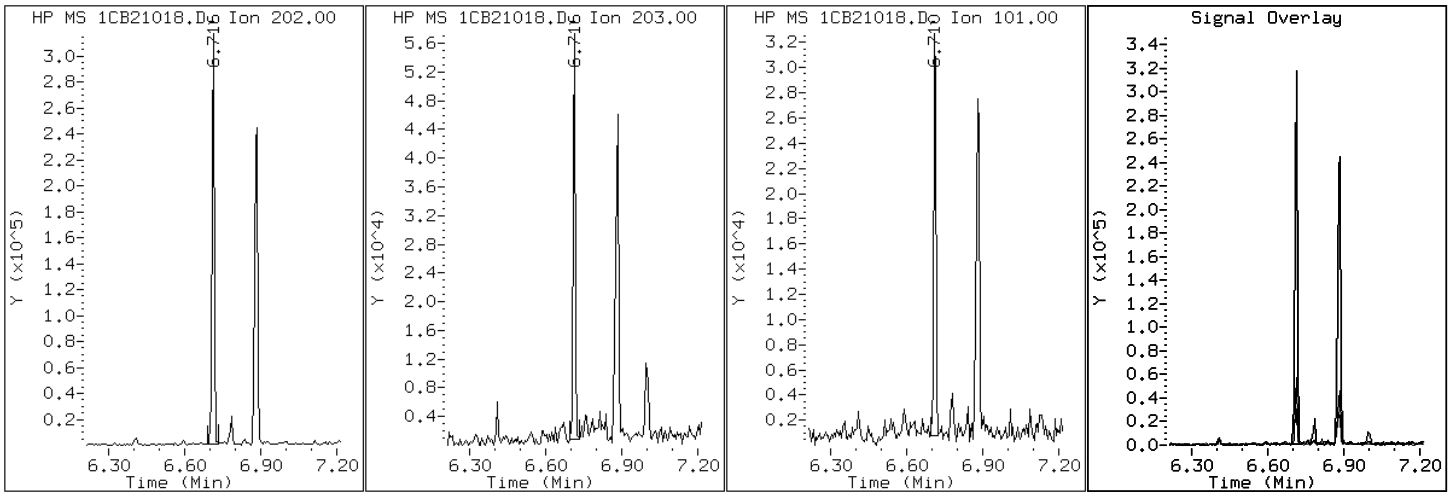
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

15 Fluoranthene



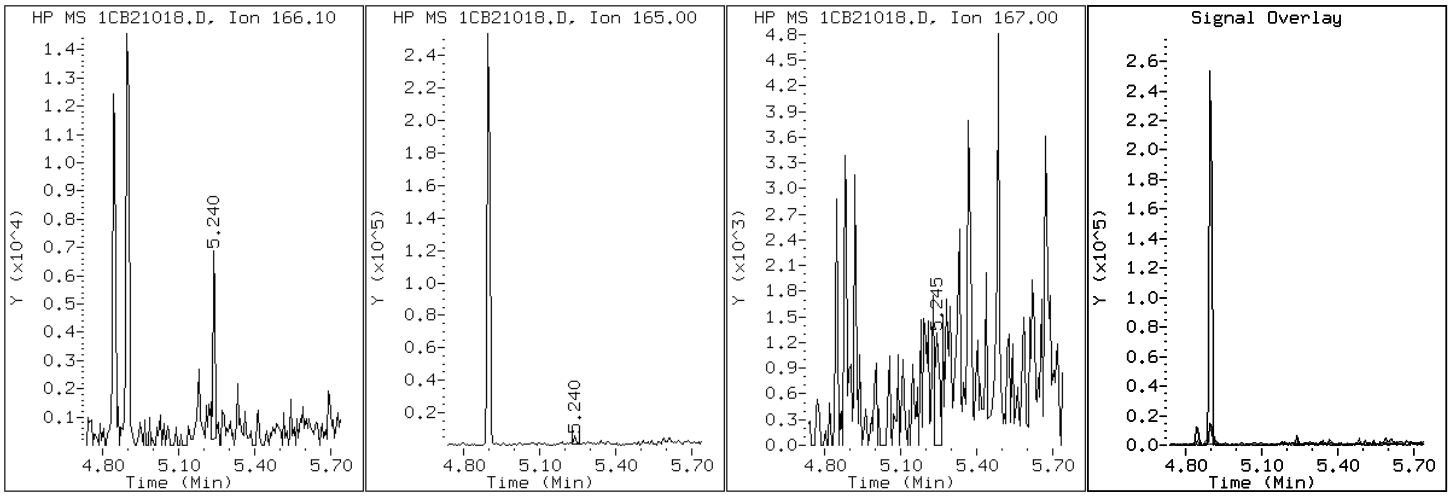
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

9 Fluorene



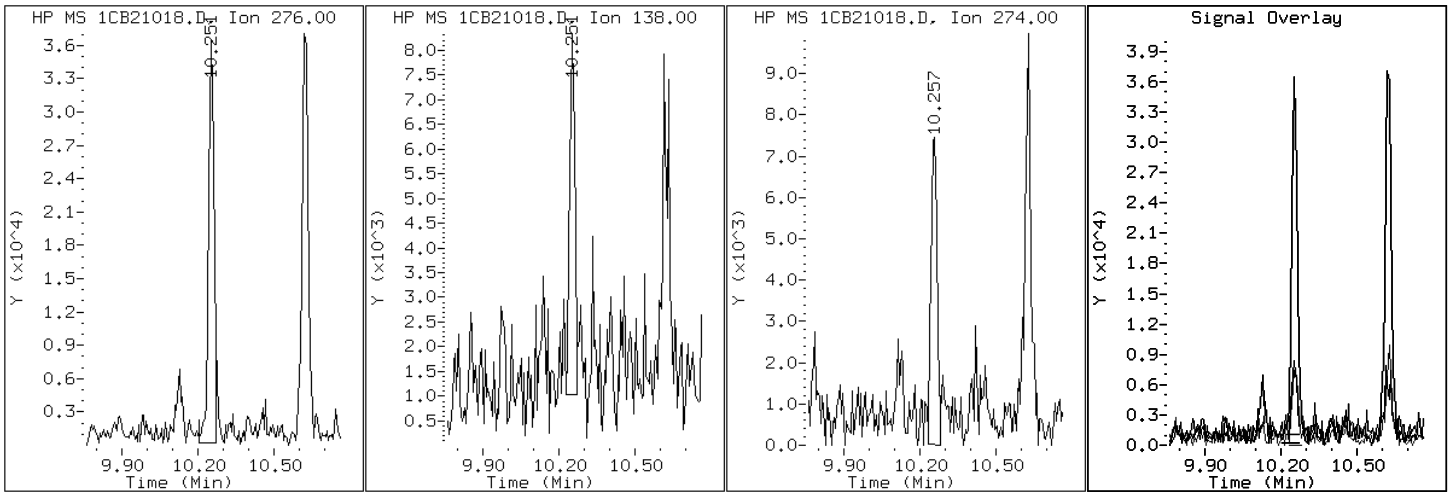
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

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



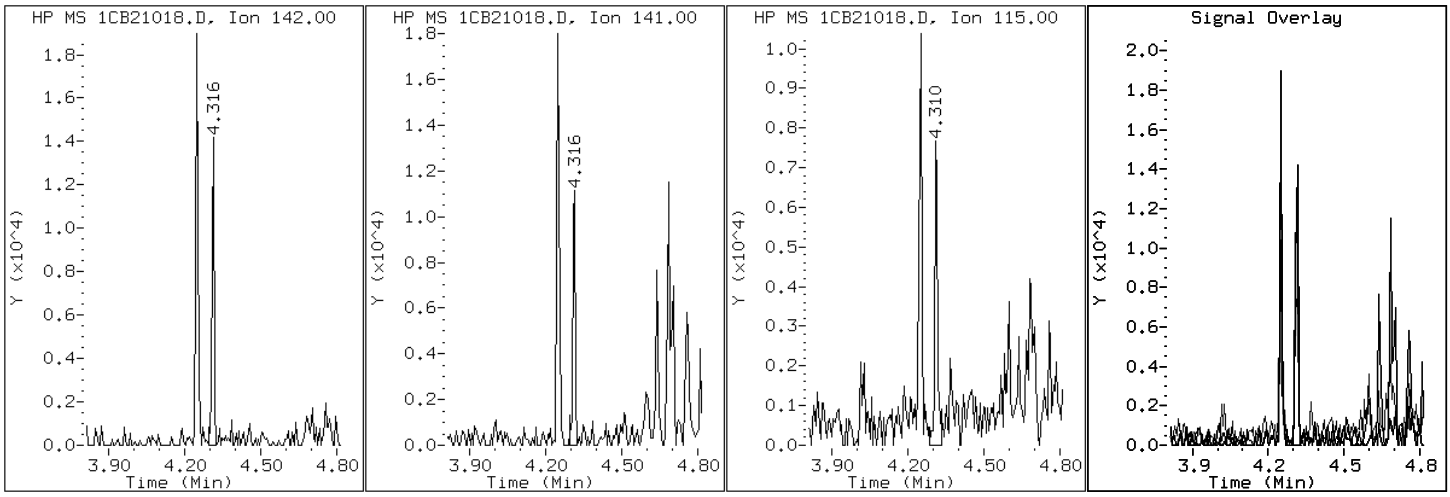
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

4 1-Methylnaphthalene



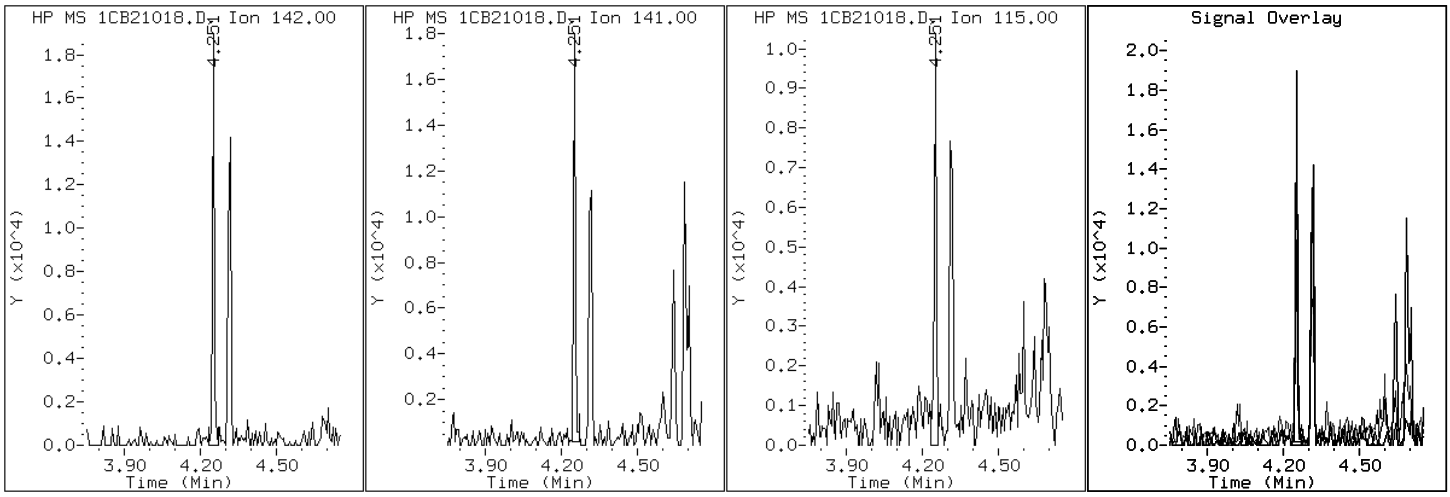
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

3 2-Methylnaphthalene



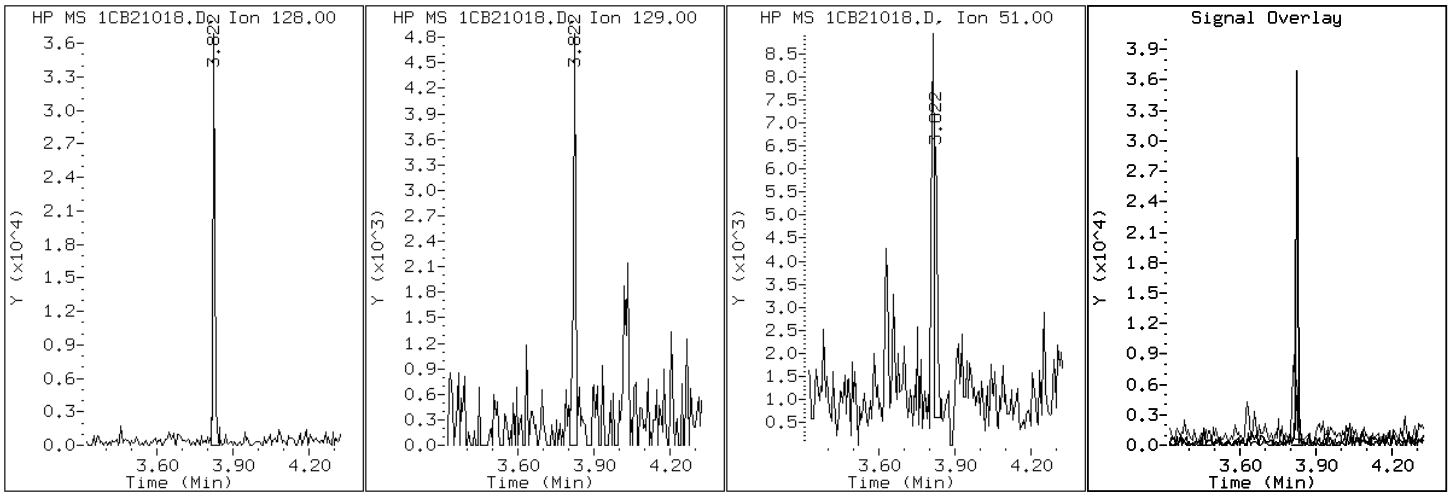
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

2 Naphthalene



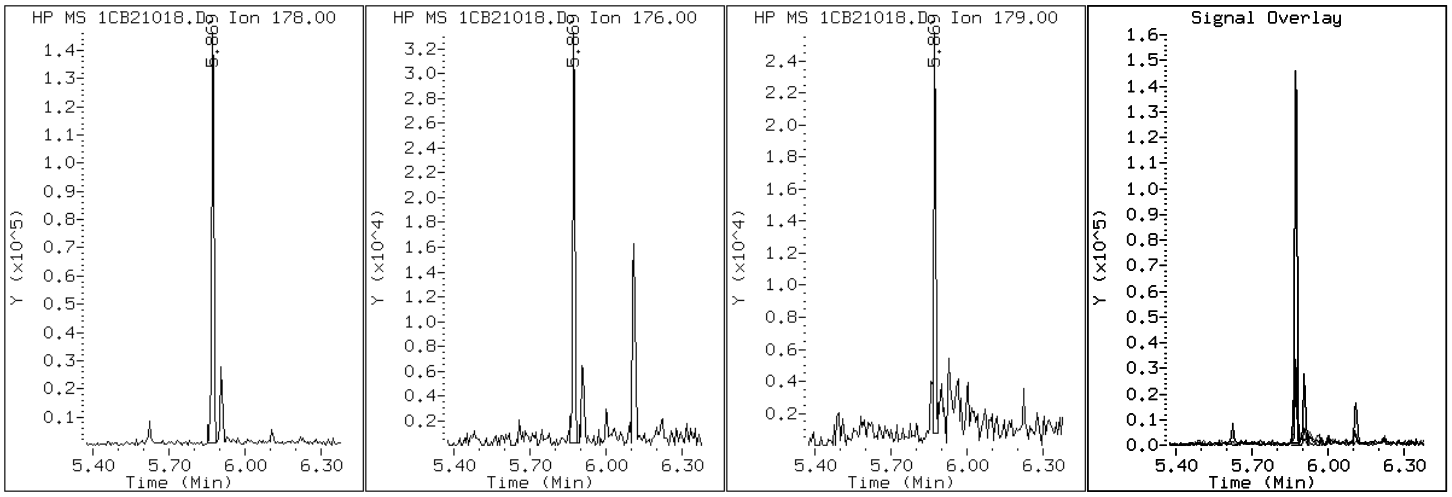
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

11 Phenanthrene



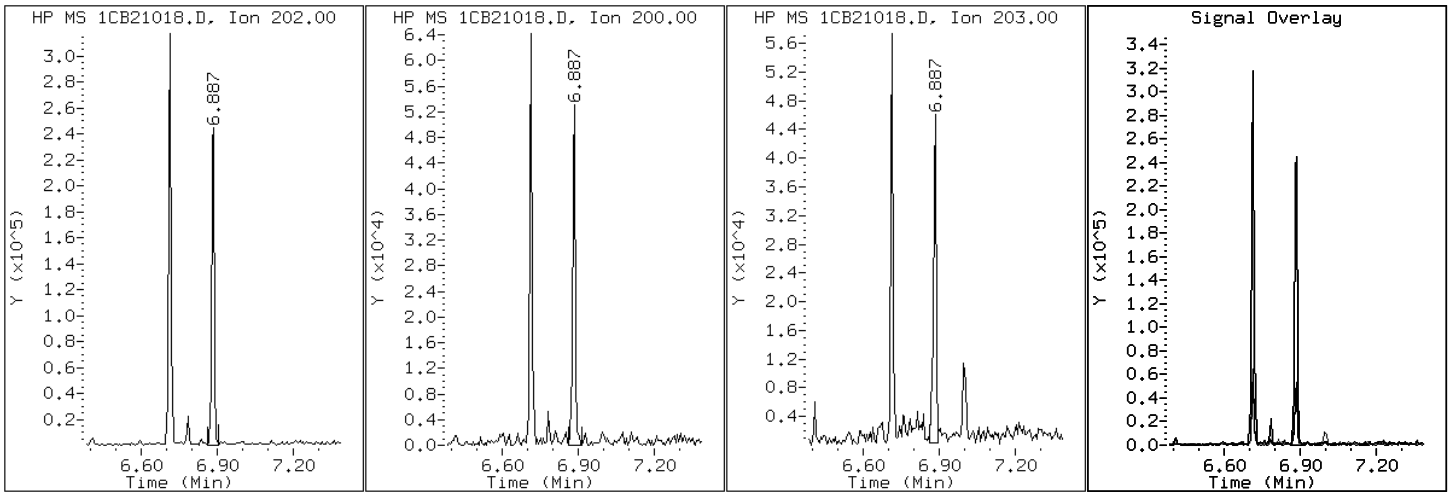
Data File: 1CB21018.D

Date: 21-FEB-2013 16:23

Client ID: CV0971AM-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-34-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21018.D
Inj. Date and Time: 21-FEB-2013 16:23
Instrument ID: BSMC5973.i
Client ID: CV0971AM-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

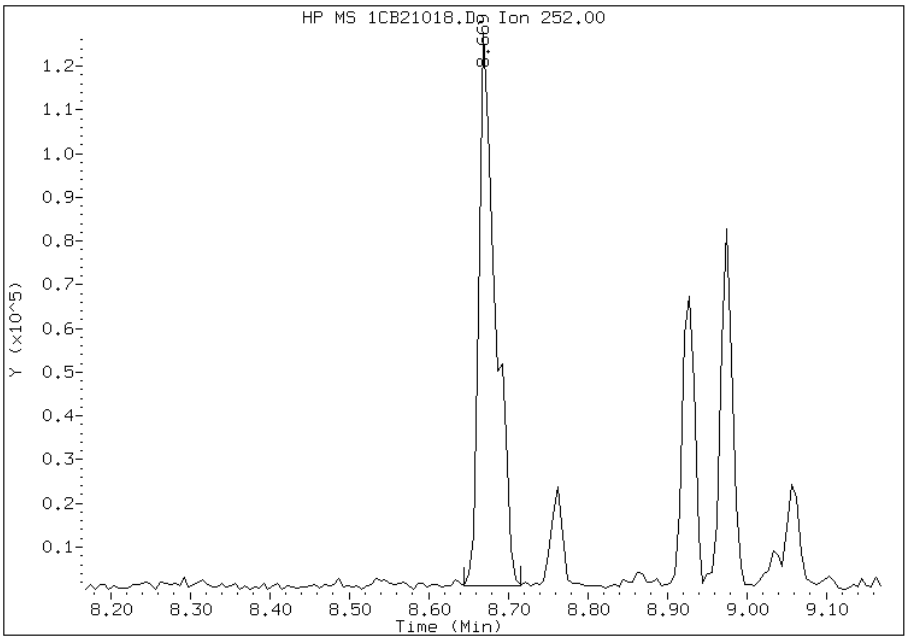
Processing Integration Results

RT: 8.67

Response: 185519

Amount: 3

Conc: 312



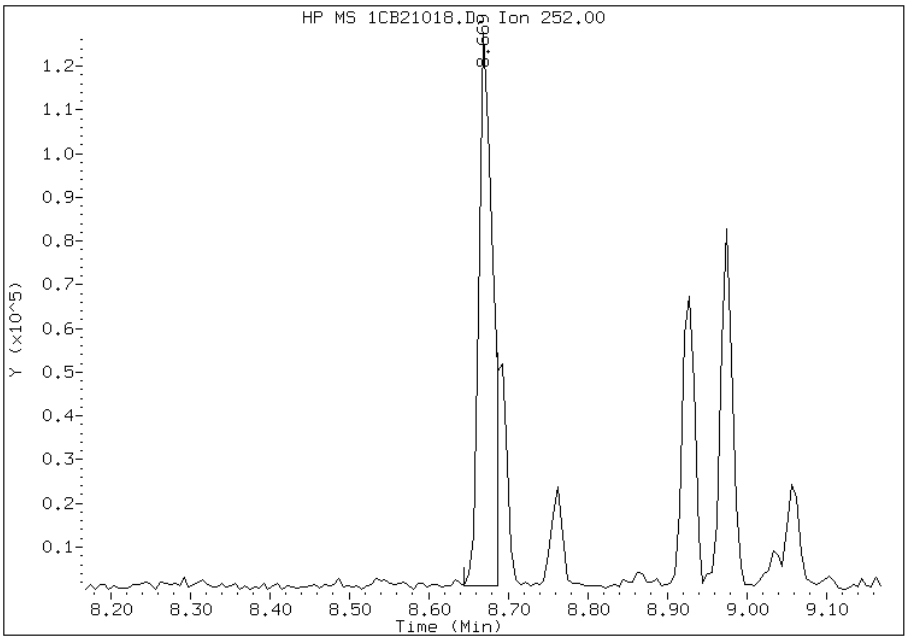
Manual Integration Results

RT: 8.67

Response: 151941

Amount: 3

Conc: 255



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB21018.D
Inj. Date and Time: 21-FEB-2013 16:23
Instrument ID: BSMC5973.i
Client ID: CV0971AM-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

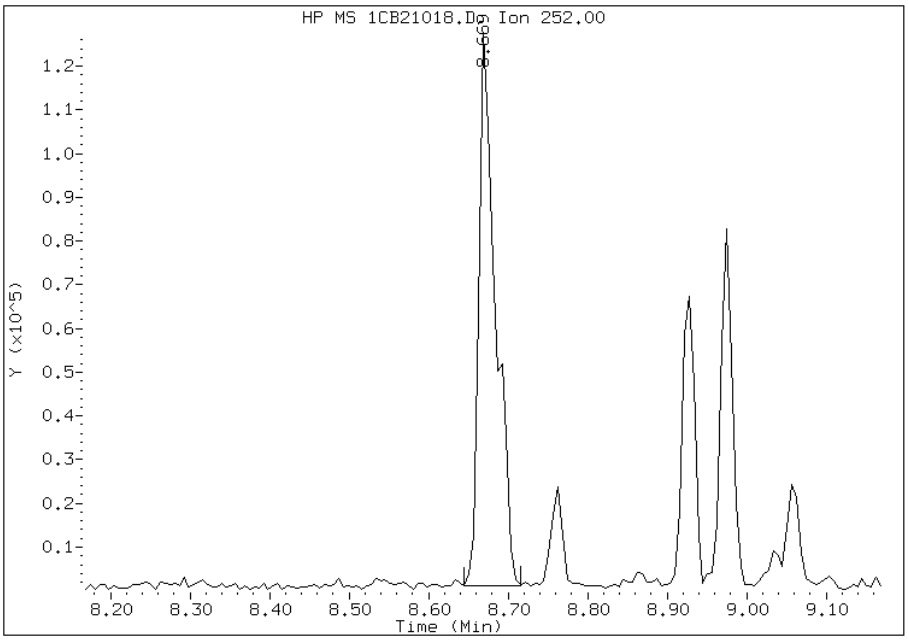
Processing Integration Results

RT: 8.67

Response: 185519

Amount: 3

Conc: 283



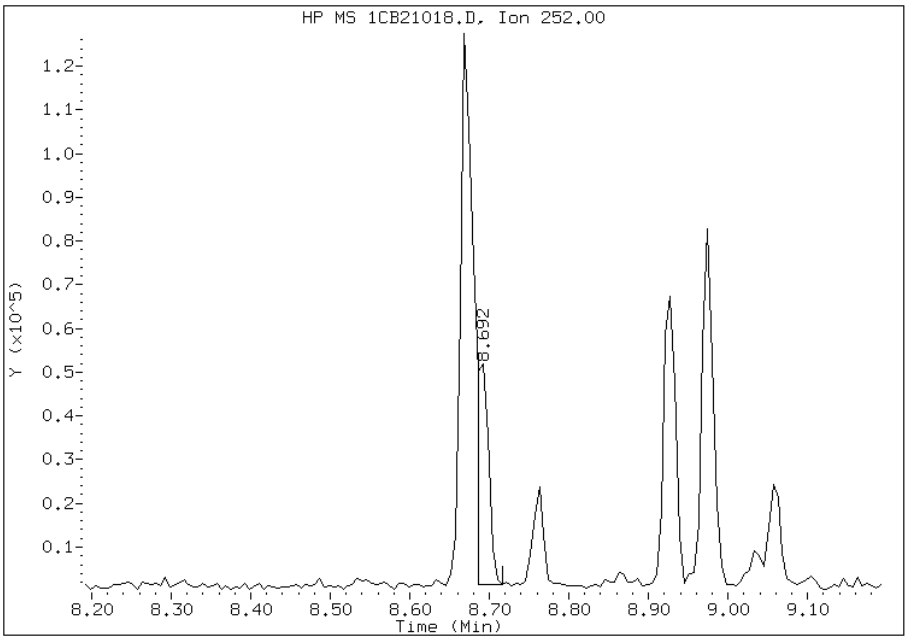
Manual Integration Results

RT: 8.69

Response: 50408

Amount: 1

Conc: 77



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21018.D
Inj. Date and Time: 21-FEB-2013 16:23
Instrument ID: BSMC5973.i
Client ID: CV0971AM-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

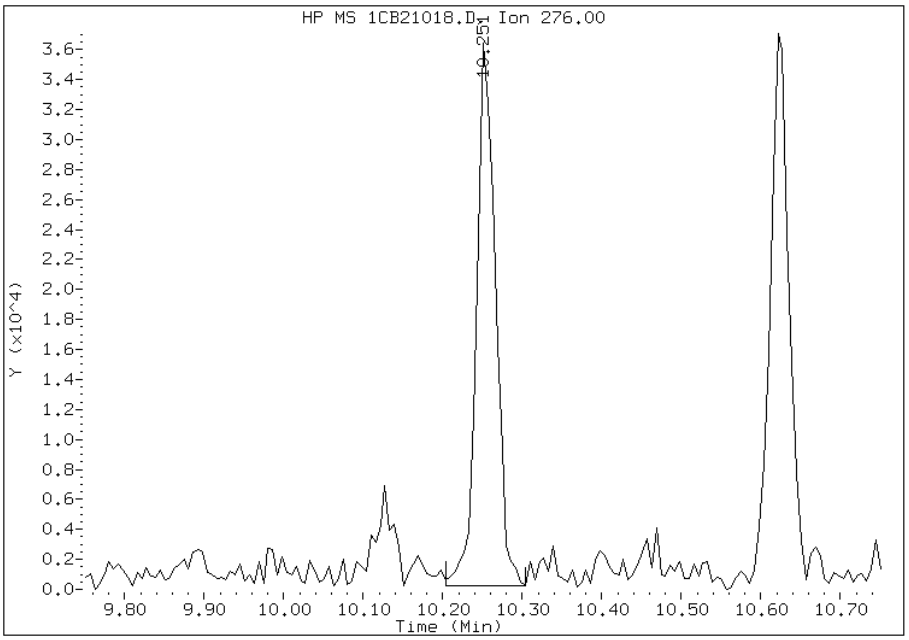
Processing Integration Results

RT: 10.25

Response: 59545

Amount: 1

Conc: 110



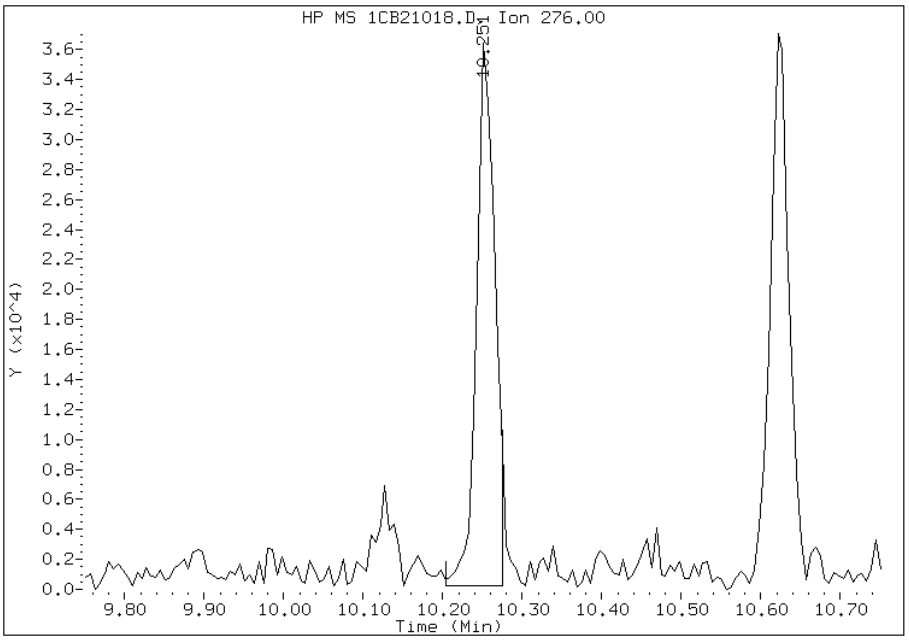
Manual Integration Results

RT: 10.25

Response: 57560

Amount: 1

Conc: 106



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971AN-GS | Lab Sample ID: 680-87496-35

Matrix: Solid | Lab File ID: 1CB21019.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 10:33

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.19(g) | Date Analyzed: 02/21/2013 16:41

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

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

% Moisture: 24.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	30	J	52	6.6
120-12-7	Anthracene	24		11	5.5
56-55-3	Benzo[a]anthracene	120		10	5.1
50-32-8	Benzo[a]pyrene	130		14	6.8
205-99-2	Benzo[b]fluoranthene	220		16	8.0
191-24-2	Benzo[g,h,i]perylene	100		26	5.8
207-08-9	Benzo[k]fluoranthene	68		10	4.7
218-01-9	Chrysene	150		12	5.9
53-70-3	Dibenz(a,h)anthracene	22	J	26	5.4
206-44-0	Fluoranthene	220		26	5.2
86-73-7	Fluorene	13	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	84		26	9.3
90-12-0	1-Methylnaphthalene	30	J	52	5.8
91-57-6	2-Methylnaphthalene	33	J	52	9.3
91-20-3	Naphthalene	42	J	52	5.8
85-01-8	Phenanthrene	110		10	5.1
129-00-0	Pyrene	210		26	4.9

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\1C022113.b\1CB21019.D
Lab Smp Id: 680-87496-A-35-A Client Smp ID: CV0971AN-GS
Inj Date : 21-FEB-2013 16:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-35-a
Misc Info : 680-87496-A-35-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 19
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	15.190	Weight Extracted
M	24.708	% 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	3.810	3.810	(1.000)	1742302	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1340868	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2405424	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	319024	9.05162	791.4450
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2493242	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2332941	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	22246	0.48184	42.1306
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	11329	0.37738	32.9970
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	9260	0.33916	29.6550
5 Acenaphthylene	152	4.815	4.815	(0.983)	18085	0.33902	29.6425
9 Fluorene	166	5.245	5.239	(1.071)	6344	0.14771	12.9156
11 Phenanthrene	178	5.868	5.874	(1.002)	90300	1.25766	109.9653
12 Anthracene	178	5.904	5.904	(1.008)	18004	0.27831	24.3347
13 Carbazole	167	6.010	6.015	(1.026)	11824	0.21043	18.3989

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	177403	2.52859	221.0919
16 Pyrene	202	6.886	6.886	(0.882)	160446	2.41722	211.3542
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	92177	1.34067	117.2236
19 Chrysene	228	7.827	7.833	(1.002)	118926	1.67455	146.4169
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	143322	2.50580	219.0992
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	48853	0.77531	67.7903(QMH)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	83992	1.54325	134.9371
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	50108	0.95856	83.8132(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	12600	0.25560	22.3489(M)
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	60984	1.14847	100.4184

QC Flag Legend

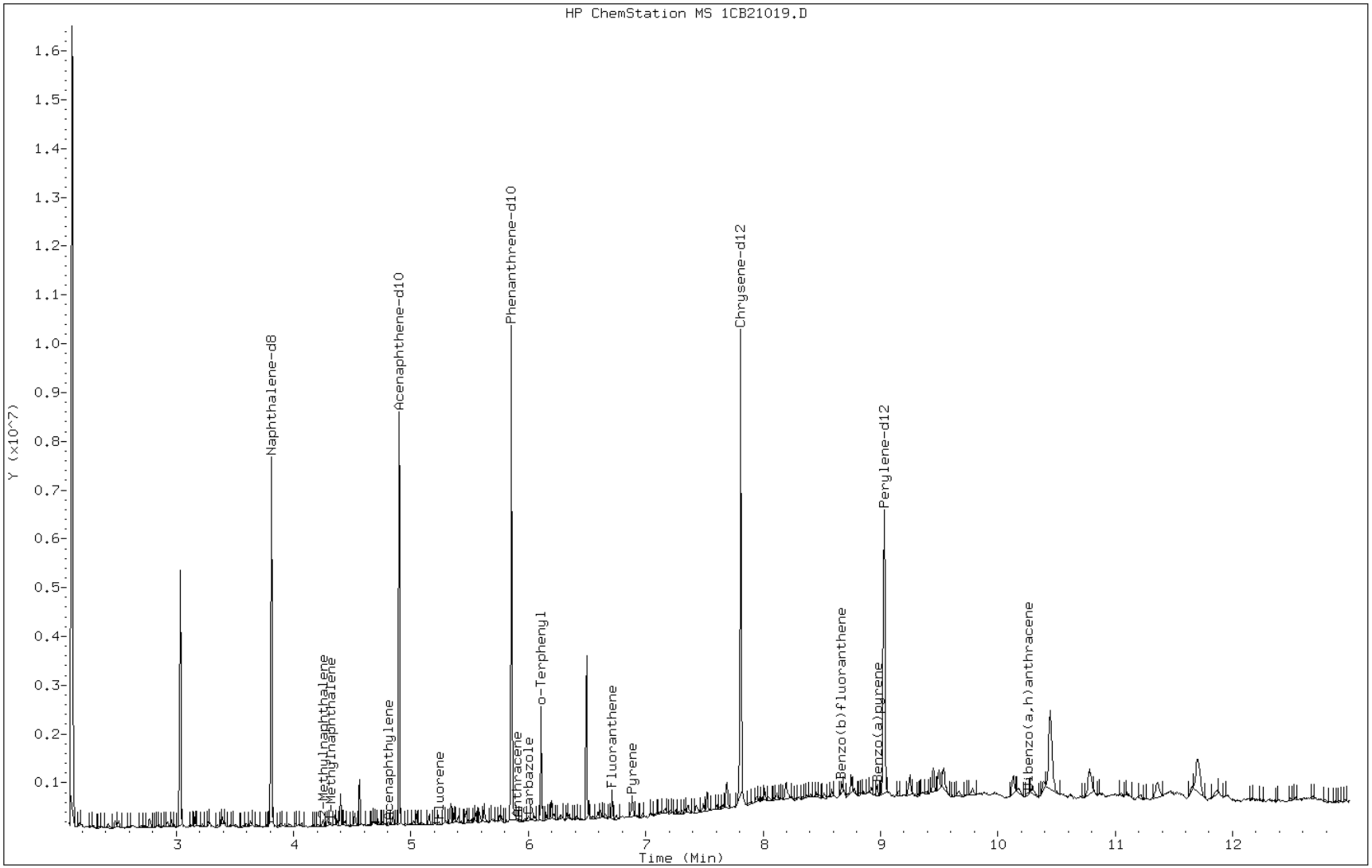
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC



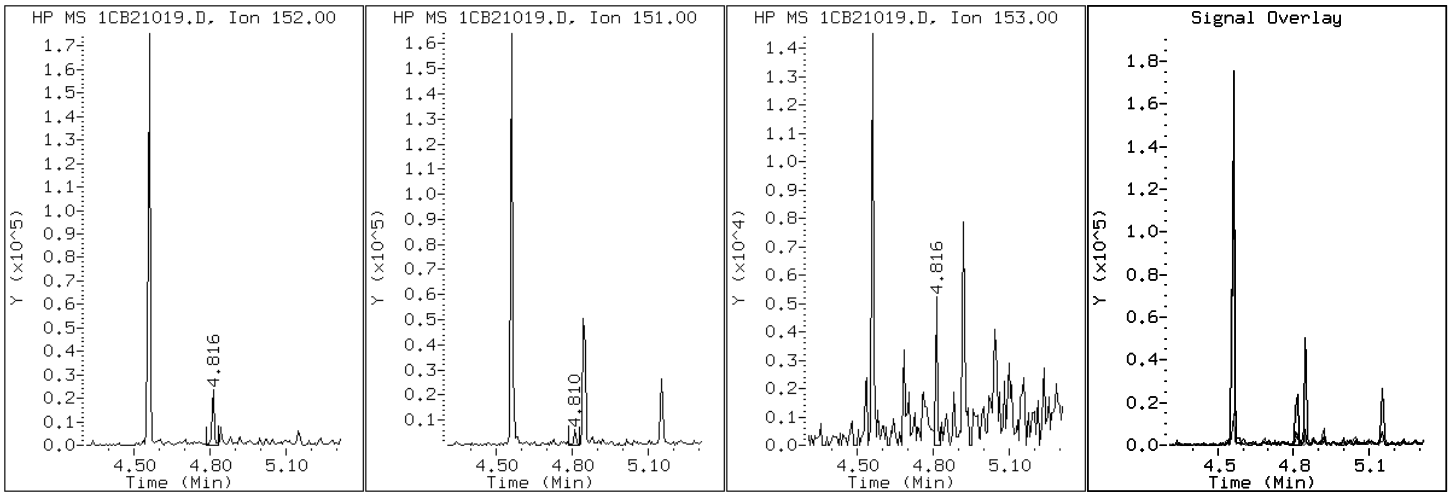
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

5 Acenaphthylene



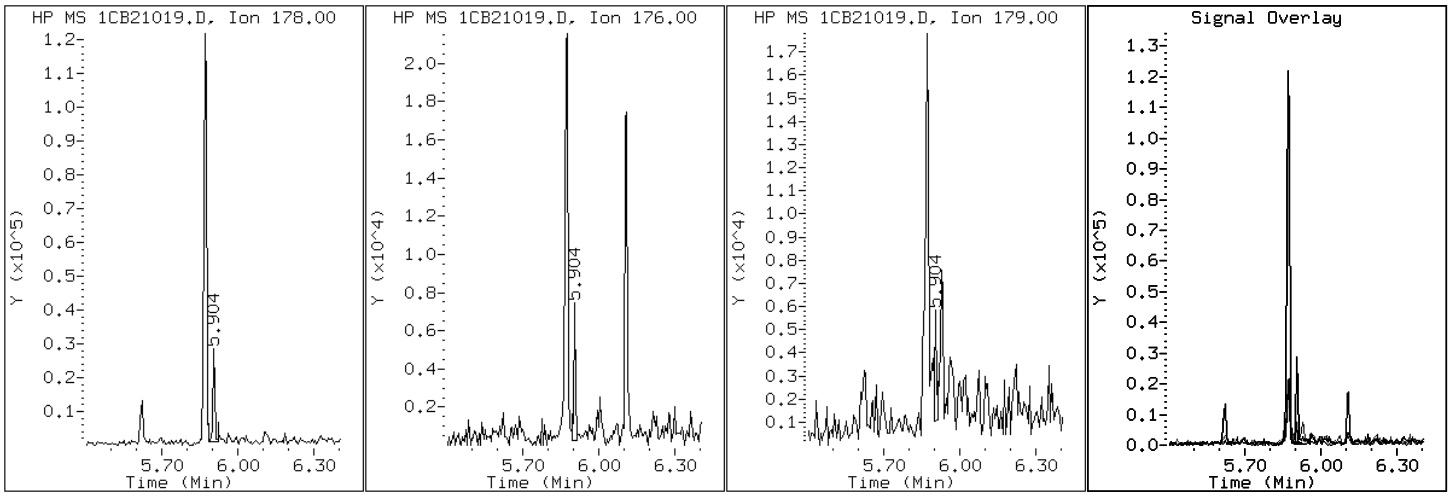
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

12 Anthracene



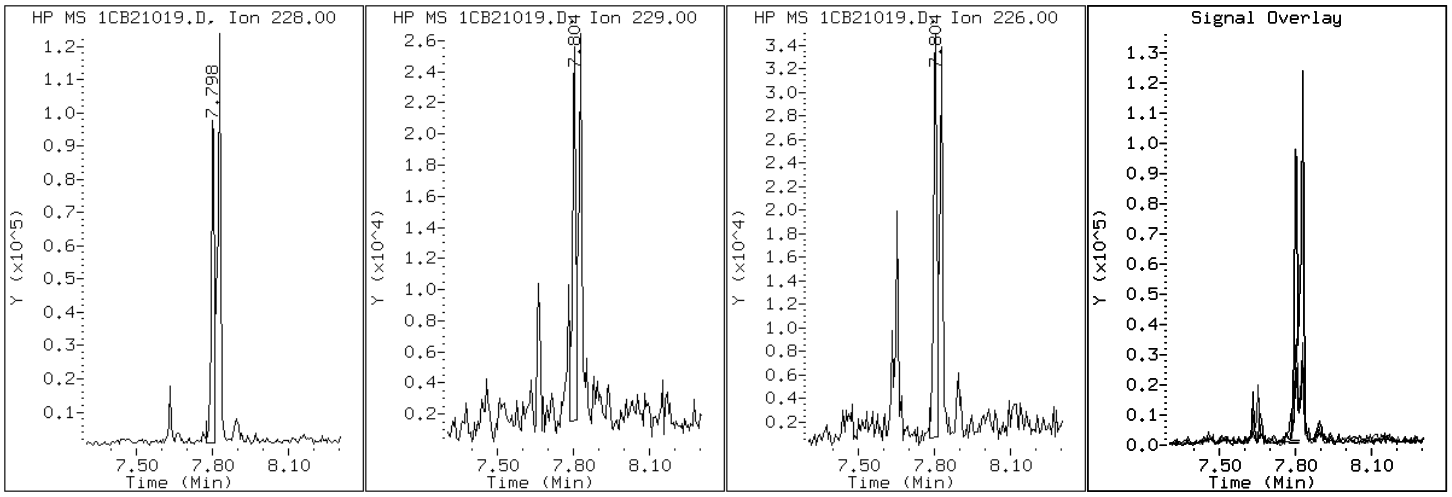
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

17 Benzo(a)anthracene



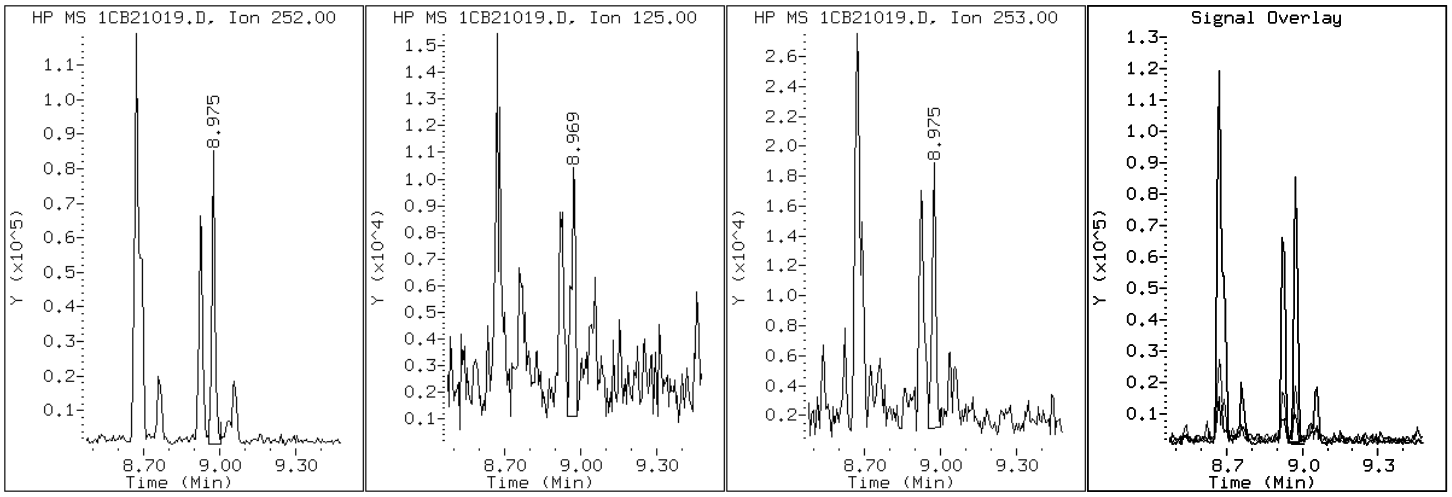
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

22 Benzo(a)pyrene



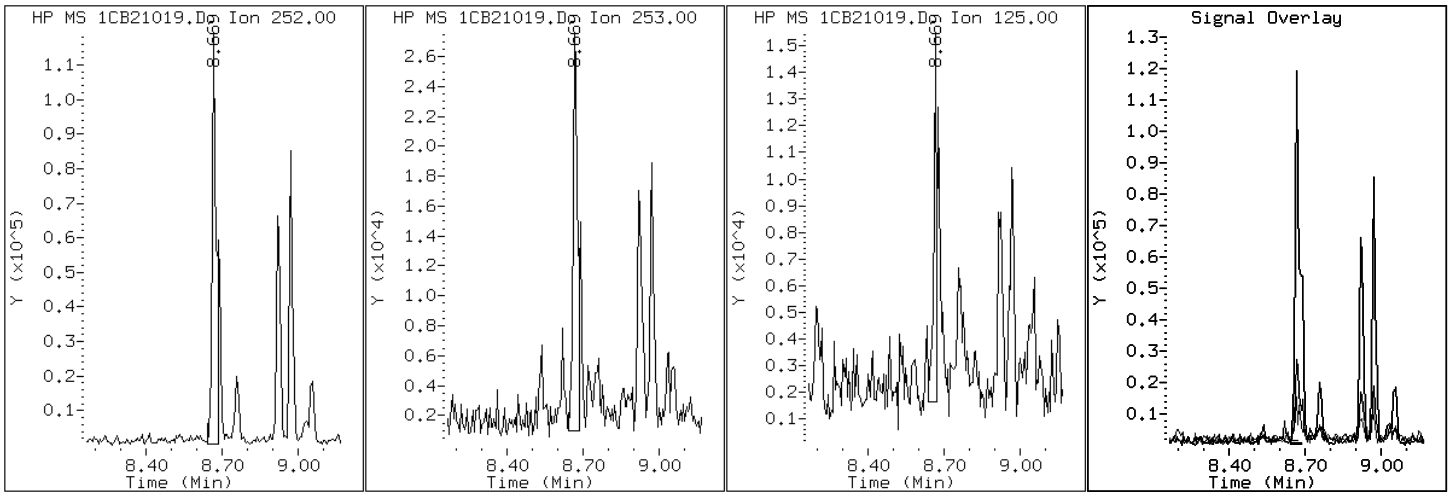
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

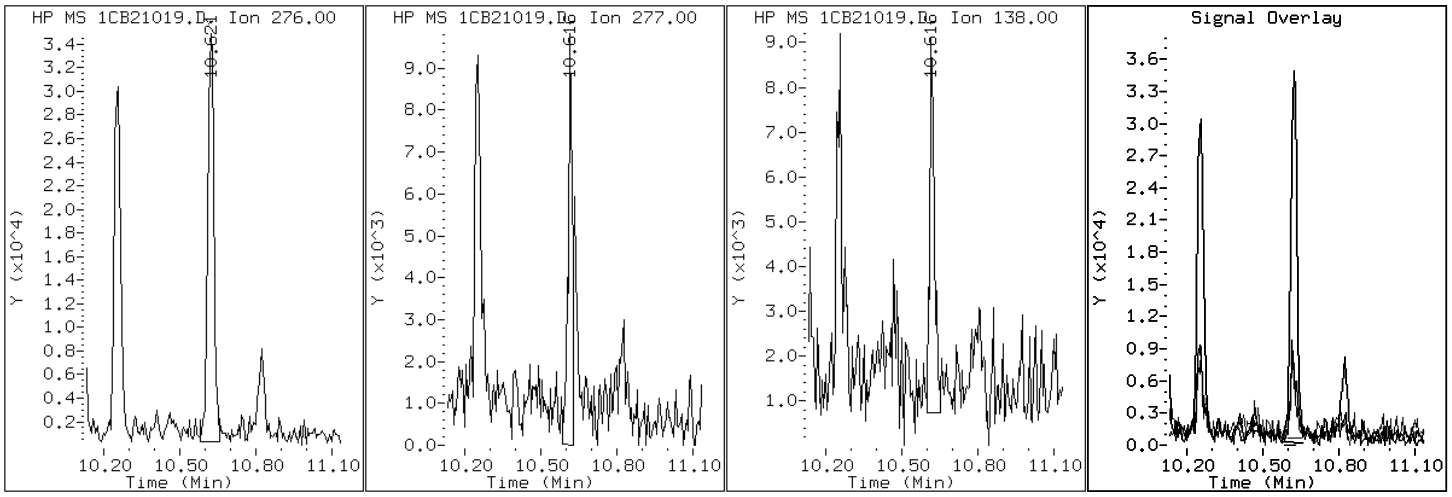
Client ID: CV0971AN-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a

Operator: SCC

26 Benzo(g,h,i)perylene



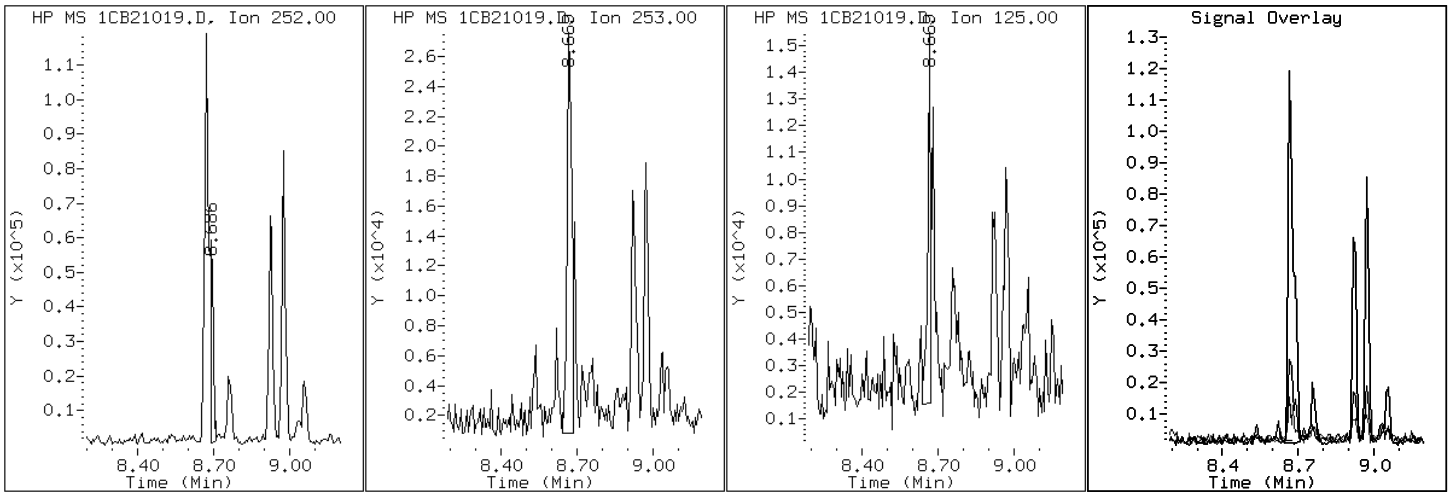
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

21 Benzo(k)fluoranthene



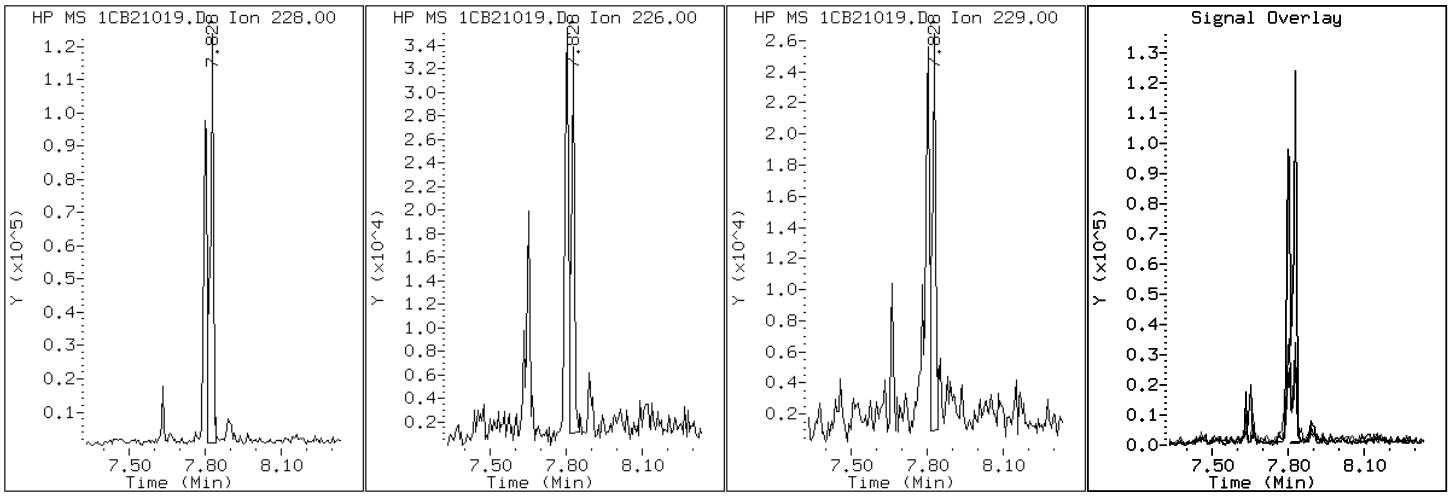
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

19 Chrysene



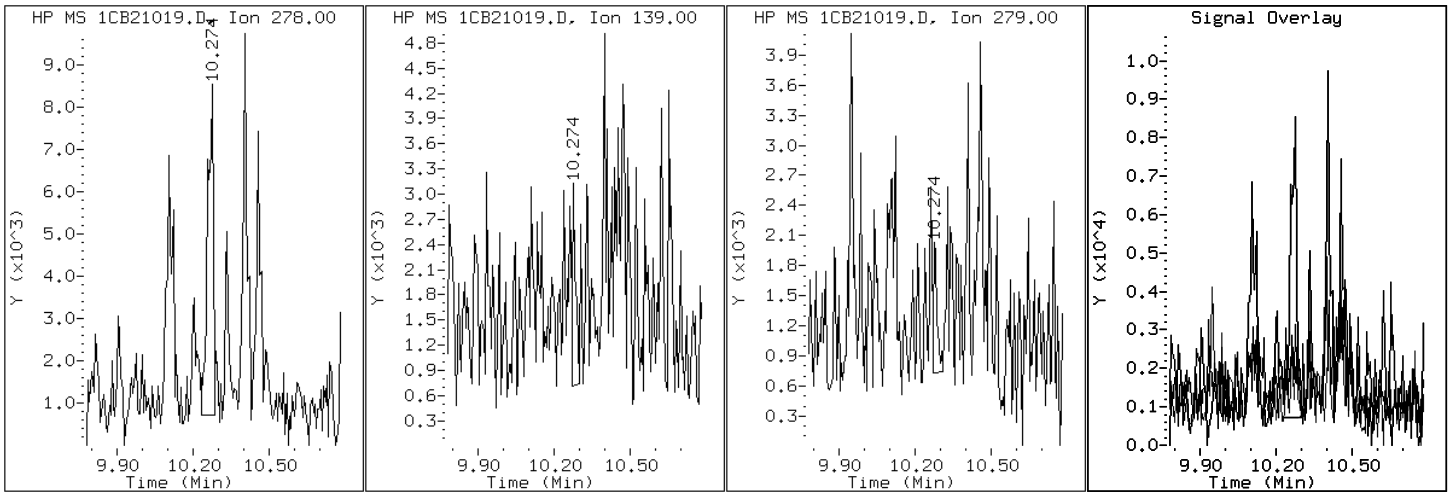
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

25 Dibenzo(a,h)anthracene



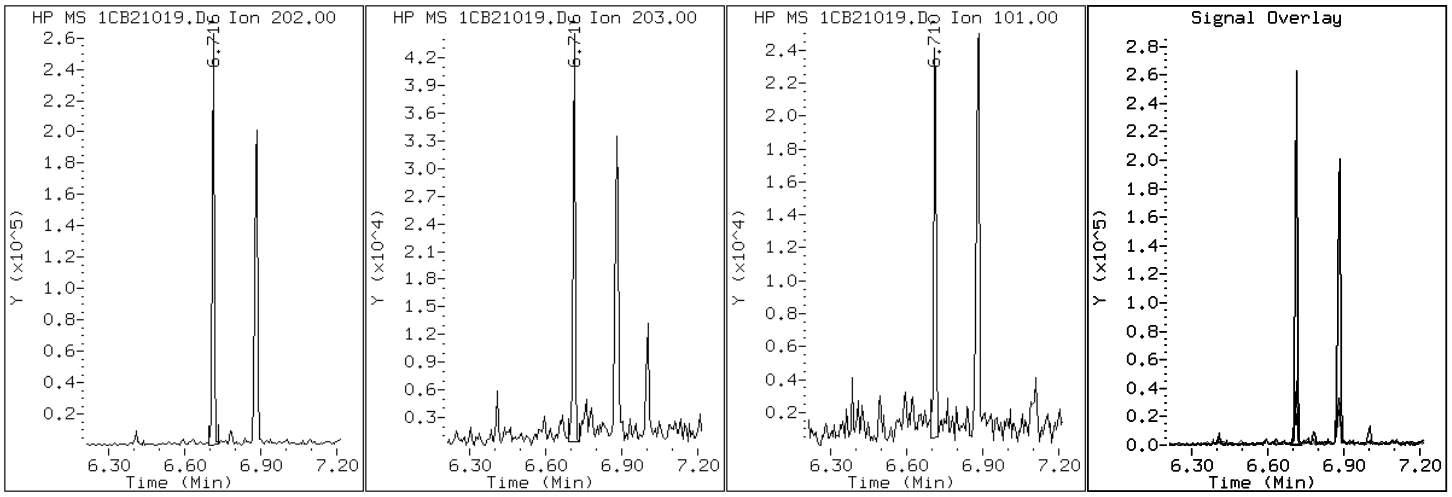
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

15 Fluoranthene



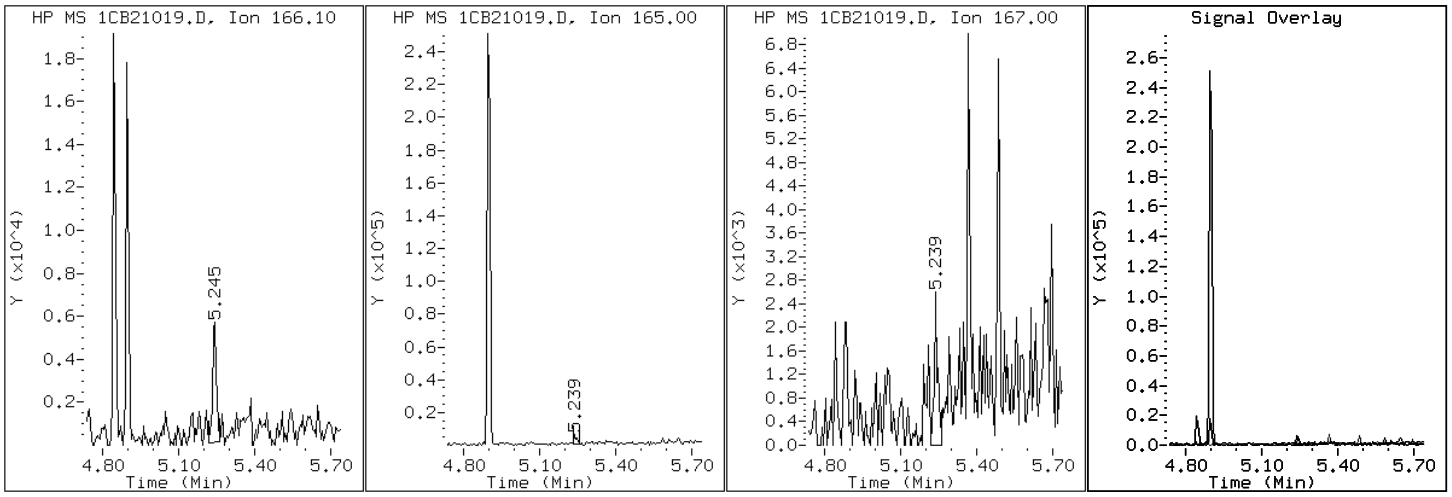
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

9 Fluorene



Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

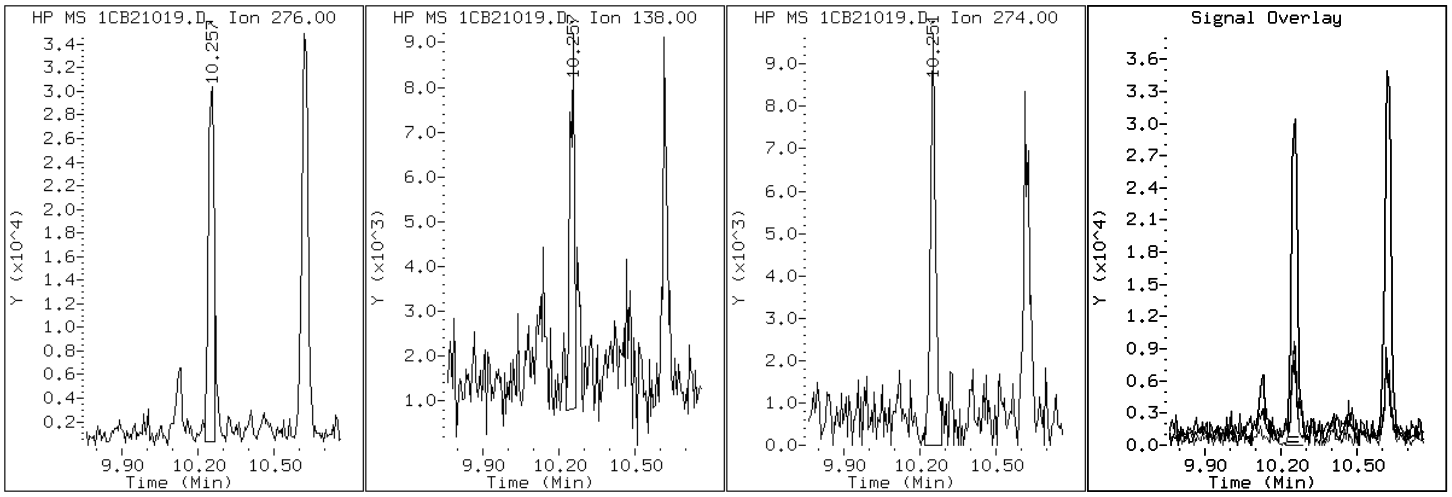
Client ID: CV0971AN-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a

Operator: SCC

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



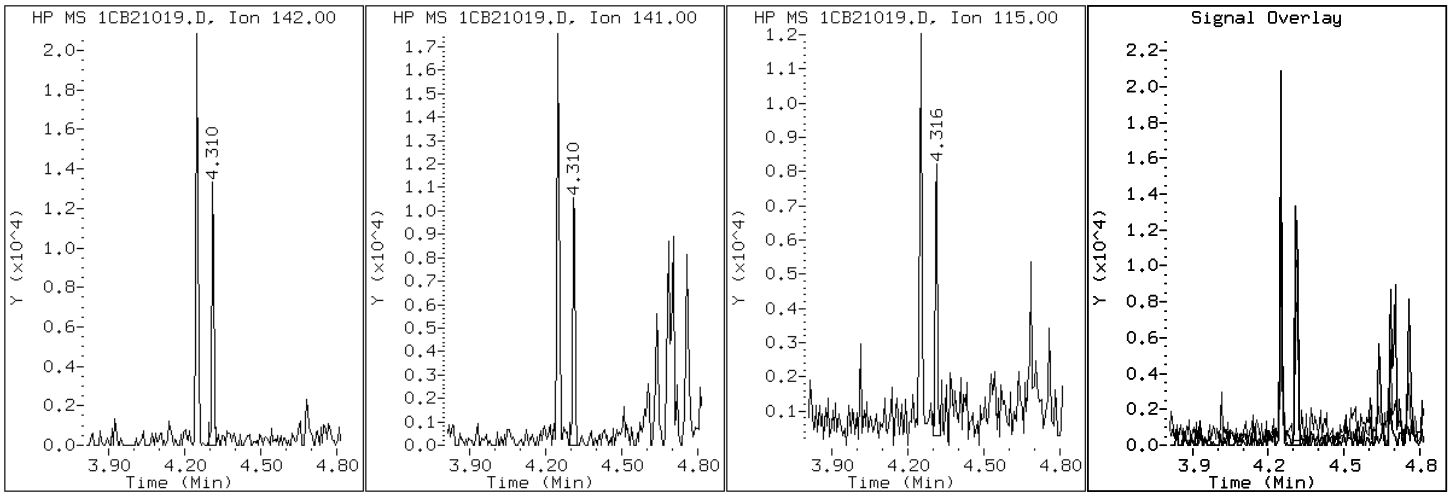
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

4 1-Methylnaphthalene



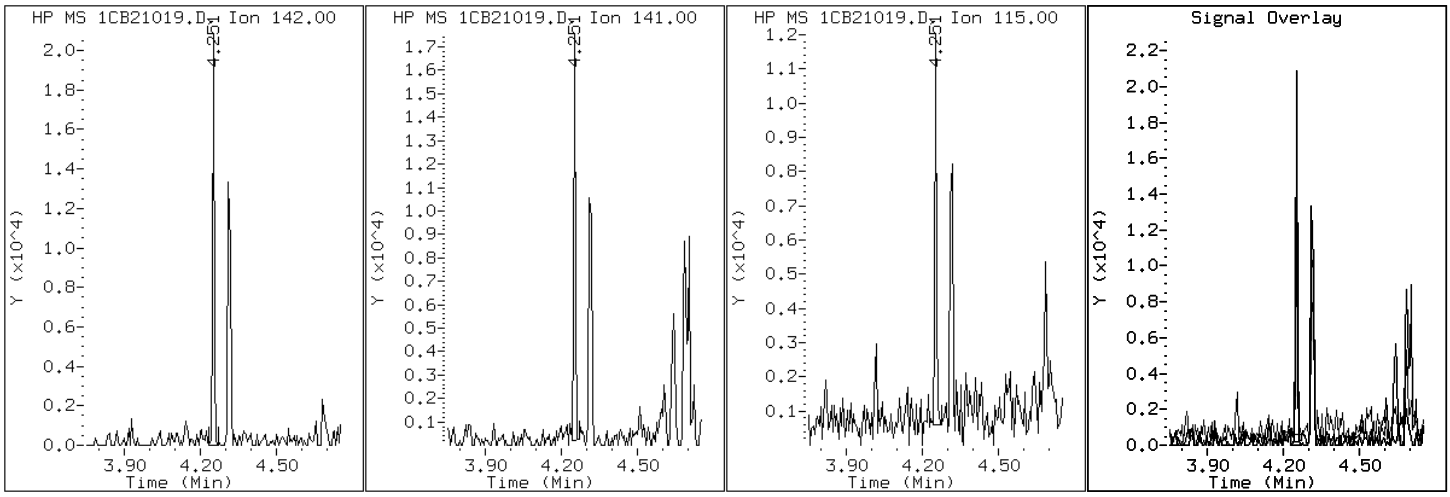
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

3 2-Methylnaphthalene



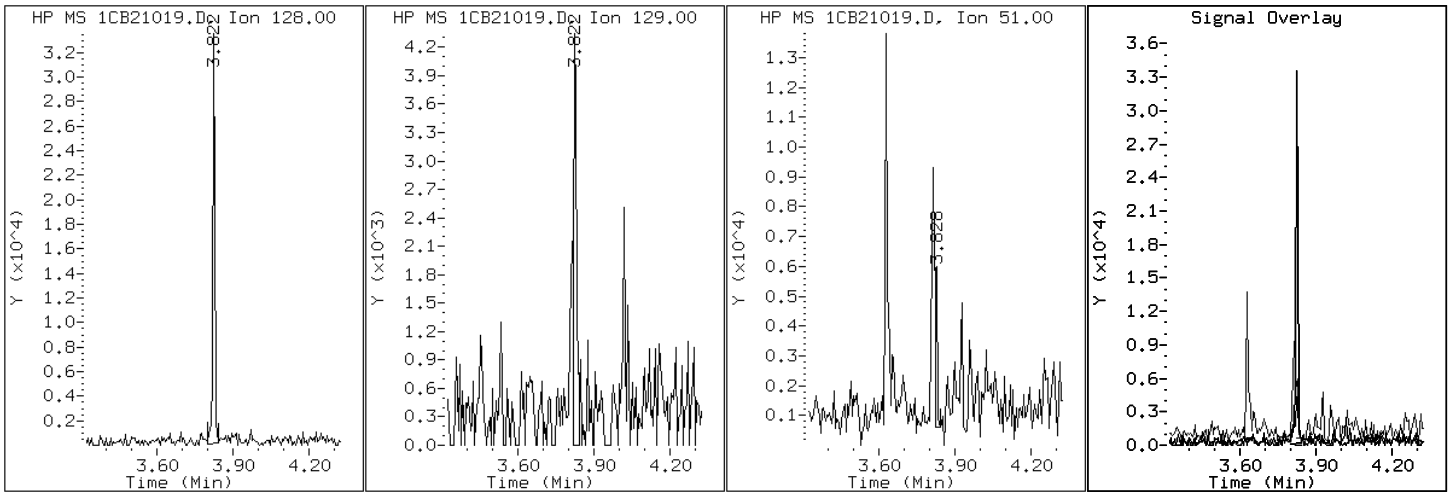
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

2 Naphthalene



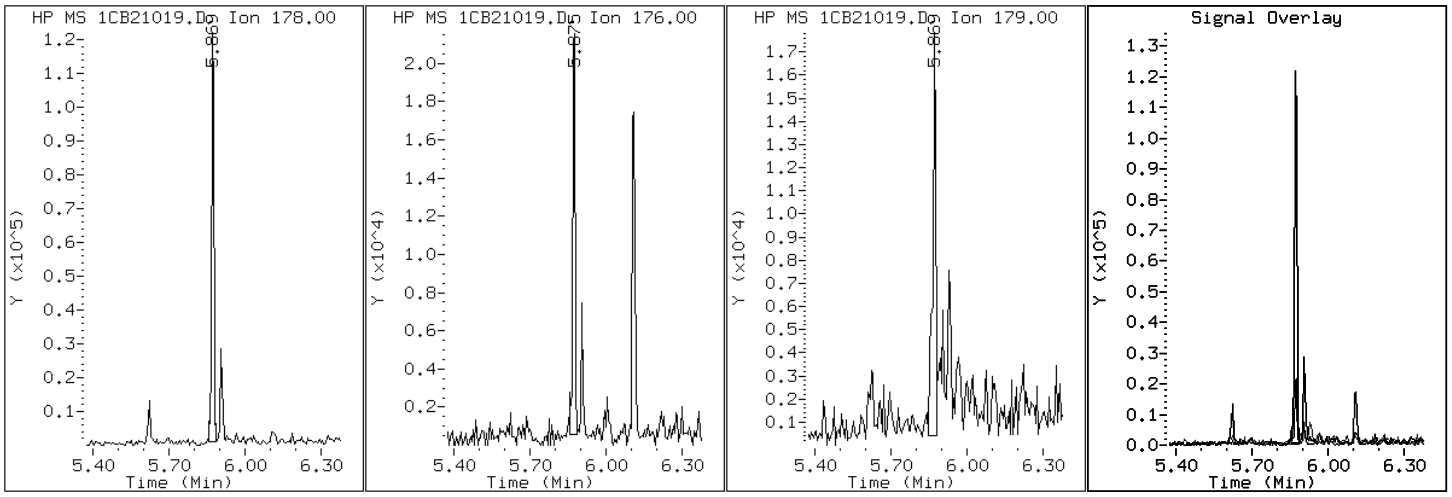
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

11 Phenanthrene



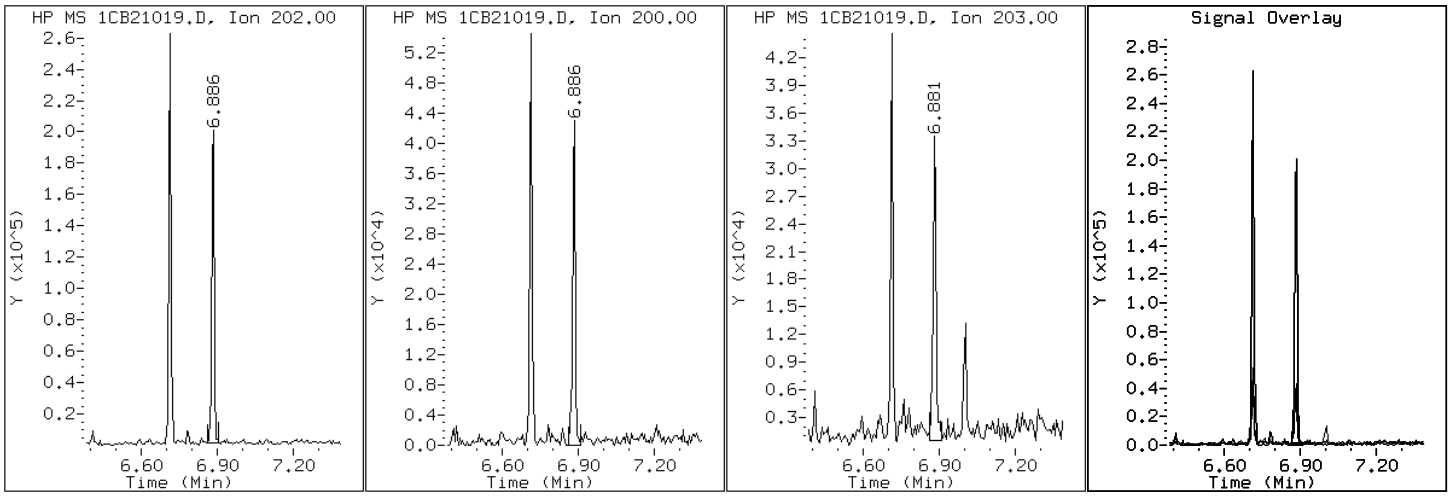
Data File: 1CB21019.D

Date: 21-FEB-2013 16:41

Client ID: CV0971AN-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-35-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21019.D
Inj. Date and Time: 21-FEB-2013 16:41
Instrument ID: BSMC5973.i
Client ID: CV0971AN-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

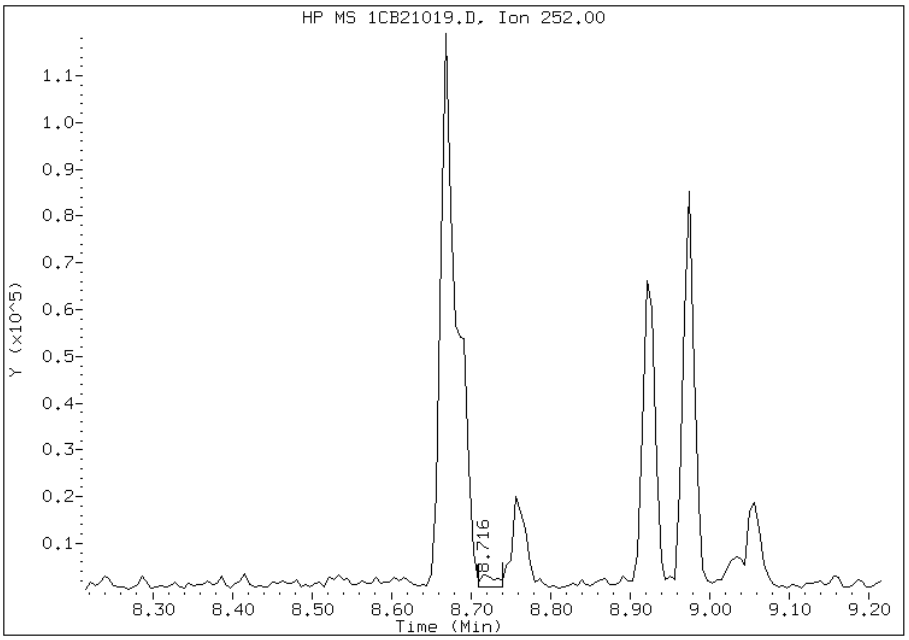
Processing Integration Results

RT: 8.72

Response: 3646

Amount: 0

Conc: 5



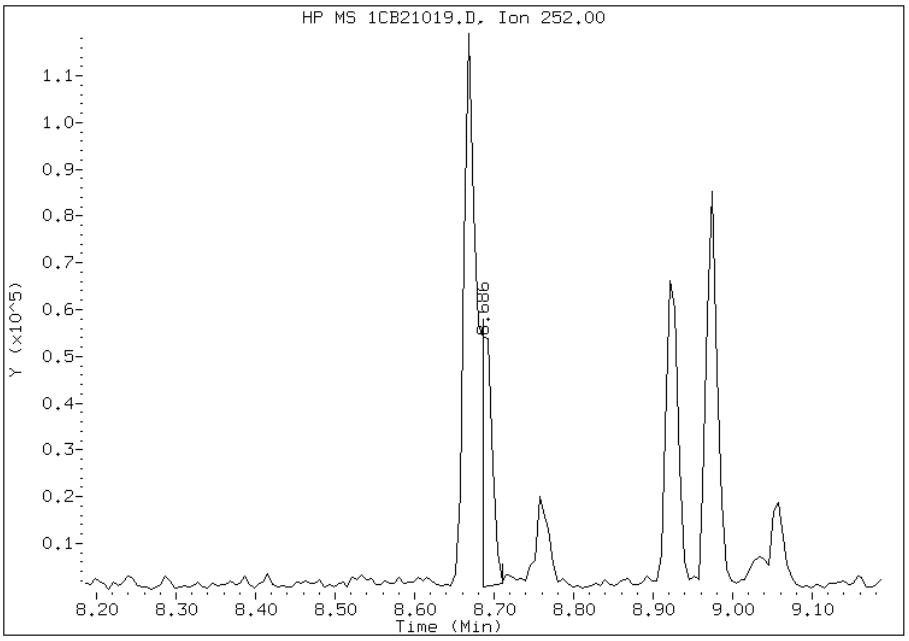
Manual Integration Results

RT: 8.69

Response: 48853

Amount: 1

Conc: 68



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:28
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CB21019.D
Inj. Date and Time: 21-FEB-2013 16:41
Instrument ID: BSMC5973.i
Client ID: CV0971AN-GS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/21/2013

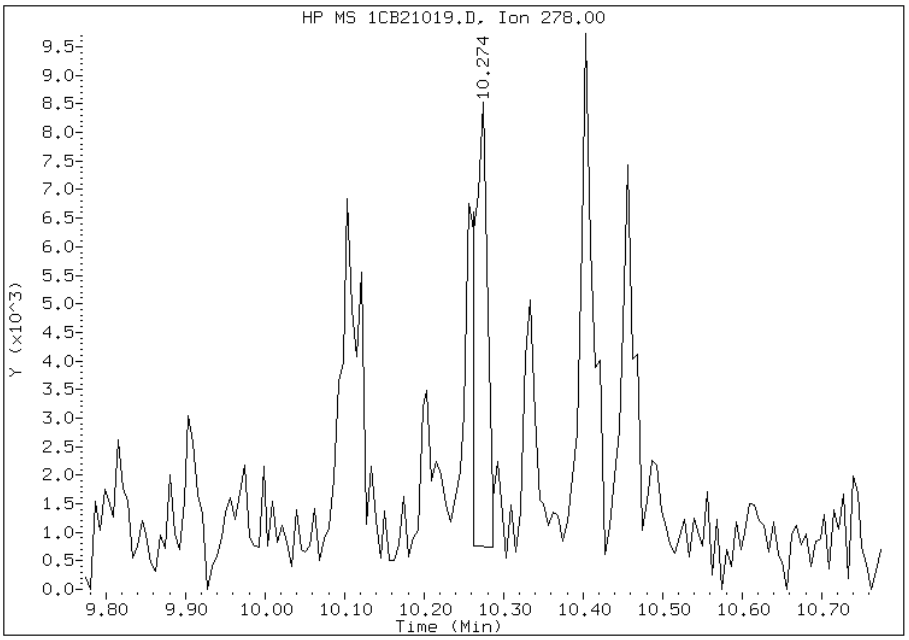
Processing Integration Results

RT: 10.27

Response: 8619

Amount: 0

Conc: 15



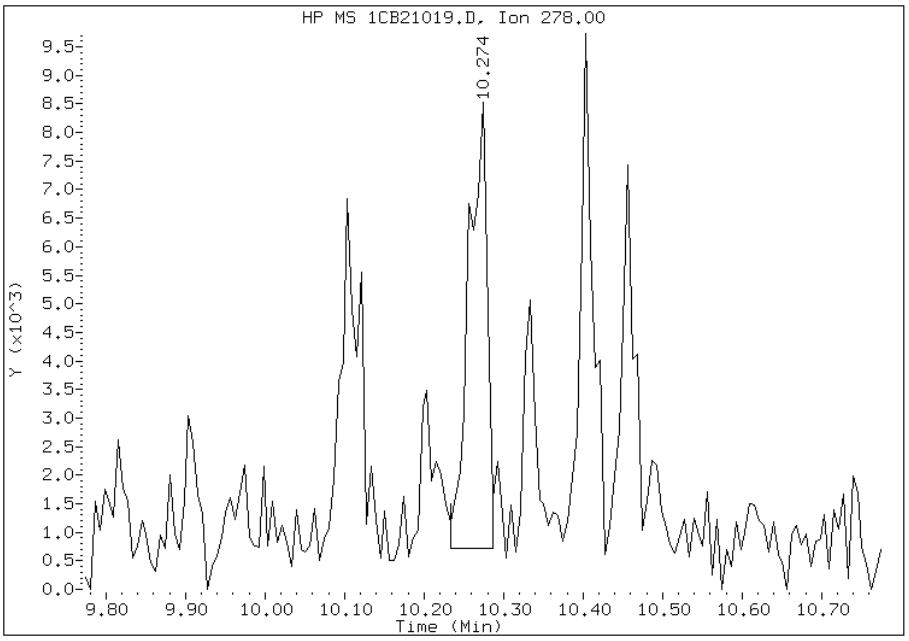
Manual Integration Results

RT: 10.27

Response: 12600

Amount: 0

Conc: 22



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21019.D
Inj. Date and Time: 21-FEB-2013 16:41
Instrument ID: BSMC5973.i
Client ID: CV0971AN-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

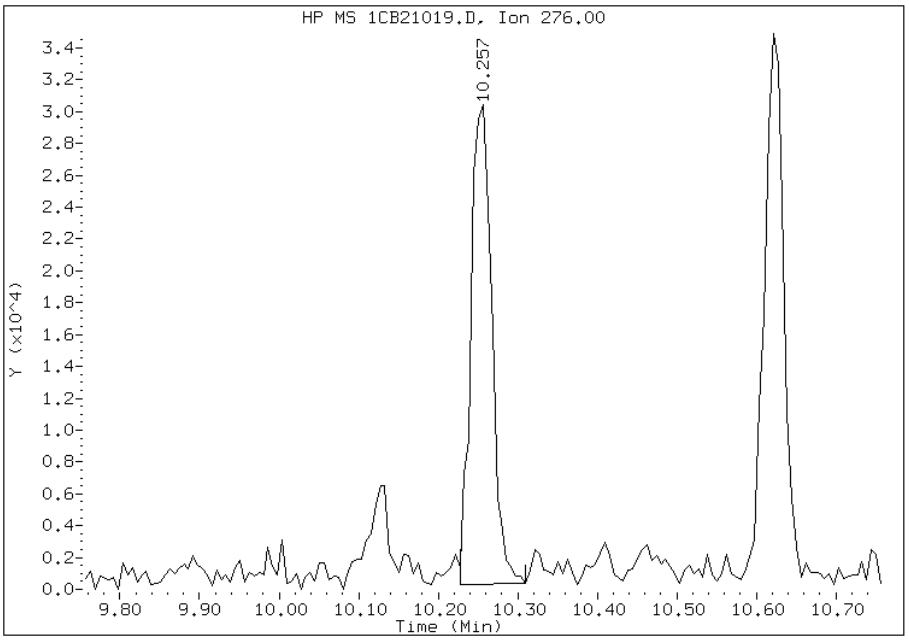
Processing Integration Results

RT: 10.26

Response: 54493

Amount: 1

Conc: 91



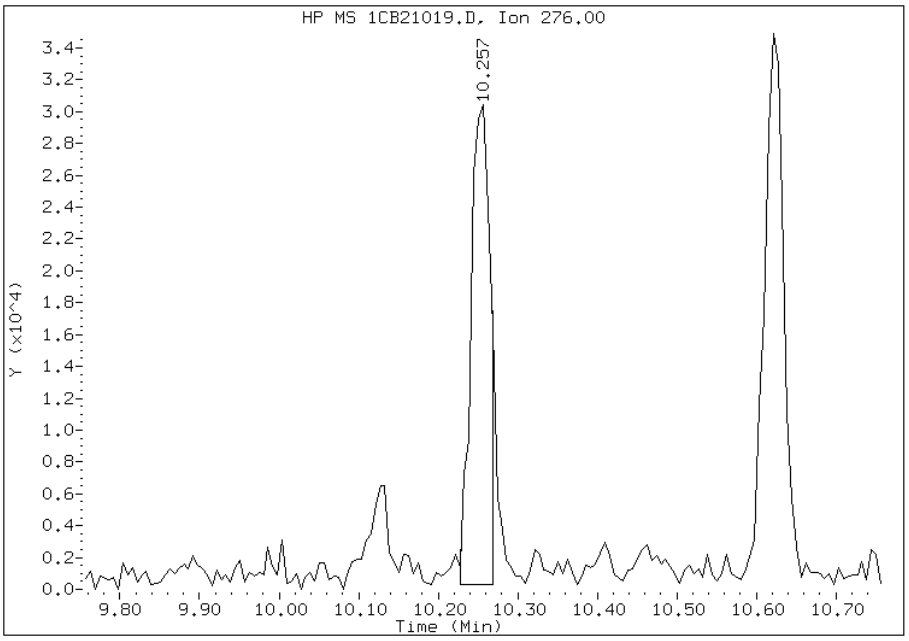
Manual Integration Results

RT: 10.26

Response: 50108

Amount: 1

Conc: 84



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 17:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971AO-GS | Lab Sample ID: 680-87496-36

Matrix: Solid | Lab File ID: 1CB21020.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 10:45

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.15(g) | Date Analyzed: 02/21/2013 16:59

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

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

% Moisture: 37.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	32
208-96-8	Acenaphthylene	25	J	64	7.9
120-12-7	Anthracene	54		13	6.7
56-55-3	Benzo[a]anthracene	300		13	6.2
50-32-8	Benzo[a]pyrene	310		17	8.3
205-99-2	Benzo[b]fluoranthene	470		19	9.7
191-24-2	Benzo[g,h,i]perylene	240		32	7.0
207-08-9	Benzo[k]fluoranthene	140		13	5.7
218-01-9	Chrysene	270		14	7.1
53-70-3	Dibenz(a,h)anthracene	63		32	6.5
206-44-0	Fluoranthene	550		32	6.4
86-73-7	Fluorene	21	J	32	6.5
193-39-5	Indeno[1,2,3-cd]pyrene	190		32	11
90-12-0	1-Methylnaphthalene	52	J	64	7.0
91-57-6	2-Methylnaphthalene	59	J	64	11
91-20-3	Naphthalene	97		64	7.0
85-01-8	Phenanthrene	310		13	6.2
129-00-0	Pyrene	490		32	5.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	98		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21020.D
Lab Smp Id: 680-87496-A-36-A Client Smp ID: CV0971AO-GS
Inj Date : 21-FEB-2013 16:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-36-a
Misc Info : 680-87496-A-36-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 20
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	15.150	Weight Extracted
M	37.649	% 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	3.810	3.810	(1.000)	1698632	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1324100	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2350713	40.0000	
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	338743	9.83480	1041.1471
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2424624	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2264918	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	41170	0.91465	96.8286
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	16411	0.56072	59.3601
4 1-Methylnaphthalene	142	4.315	4.315	(1.133)	12955	0.48669	51.5230
5 Acenaphthylene	152	4.815	4.815	(0.983)	12628	0.23972	25.3775
9 Fluorene	166	5.239	5.239	(1.070)	8487	0.20011	21.1848
11 Phenanthrene	178	5.868	5.874	(1.002)	202960	2.89252	306.2126
12 Anthracene	178	5.904	5.904	(1.008)	32161	0.50873	53.8558
13 Carbazole	167	6.009	6.015	(1.026)	30025	0.54678	57.8836

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	356499	5.19958	550.4459
16 Pyrene	202	6.886	6.886	(0.882)	296913	4.59978	486.9492
17 Benzo(a)anthracene	228	7.803	7.803	(0.999)	186841	2.79441	295.8266
19 Chrysene	228	7.827	7.833	(1.002)	177082	2.56398	271.4322
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	245388	4.41914	467.8265(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	82431	1.34749	142.6497(QM)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	156054	2.95342	312.6598
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	90685	1.78689	189.1667(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	28689	0.59946	63.4607
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	115283	2.23625	236.7371

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB21020.D

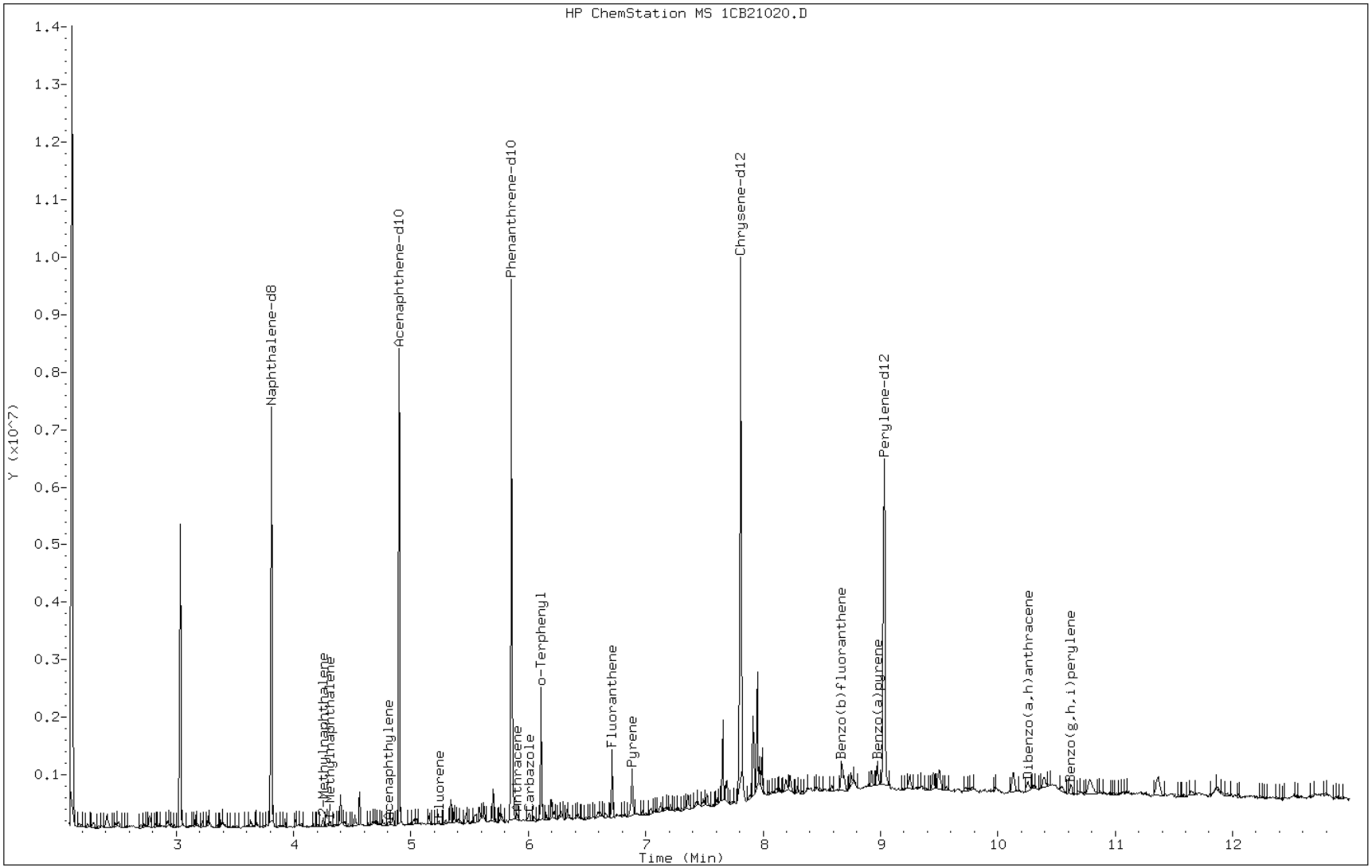
Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a

Operator: SCC



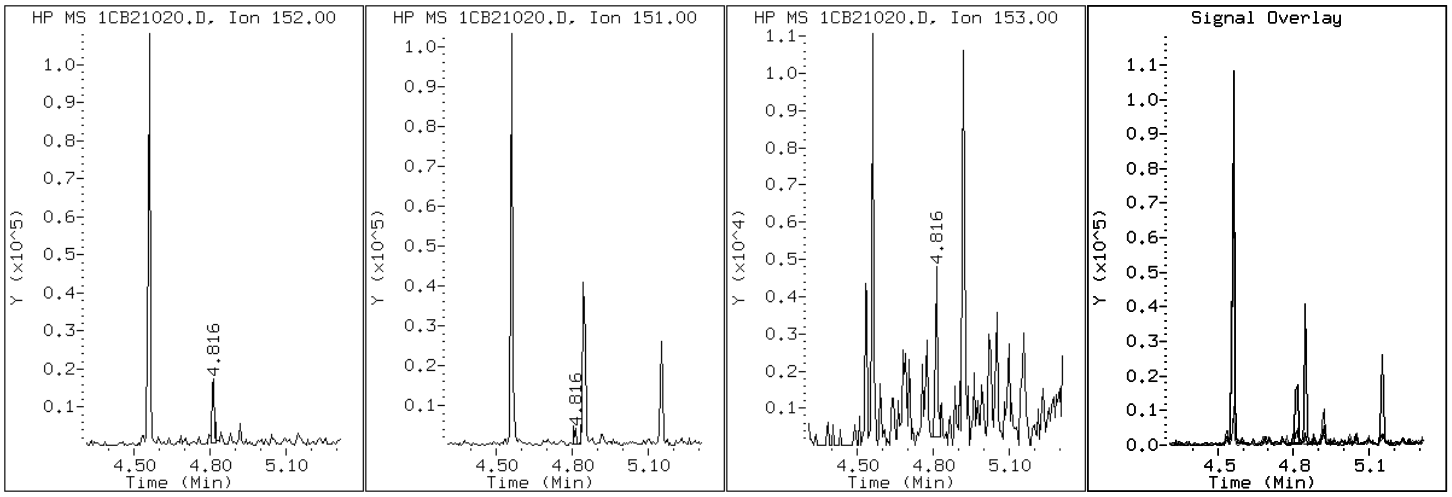
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

5 Acenaphthylene



Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

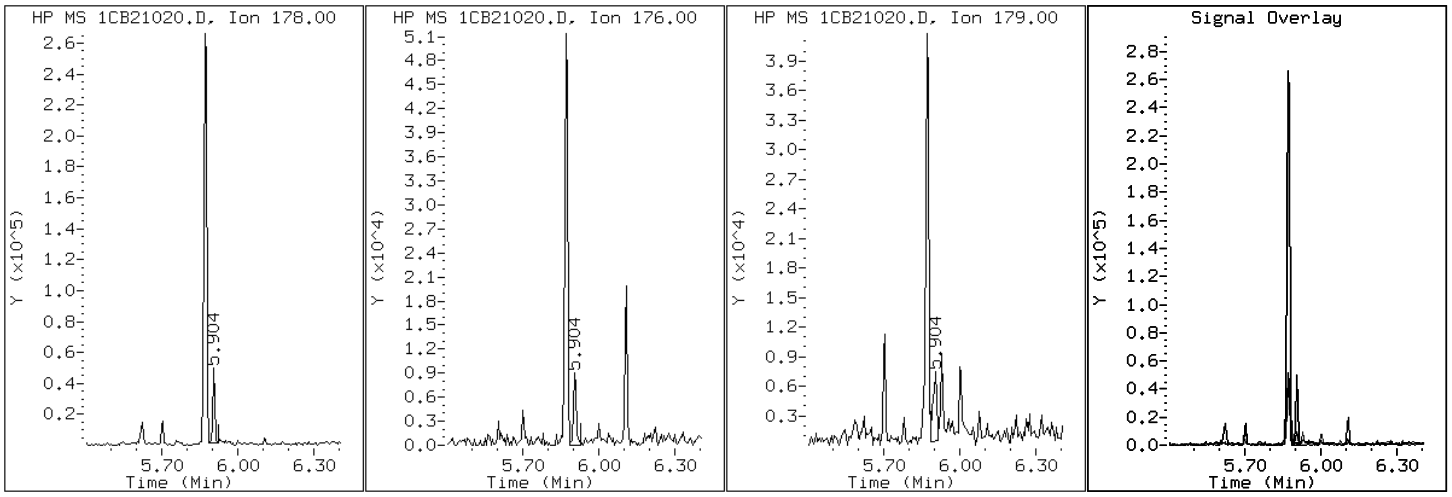
Client ID: CV0971AO-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a

Operator: SCC

12 Anthracene



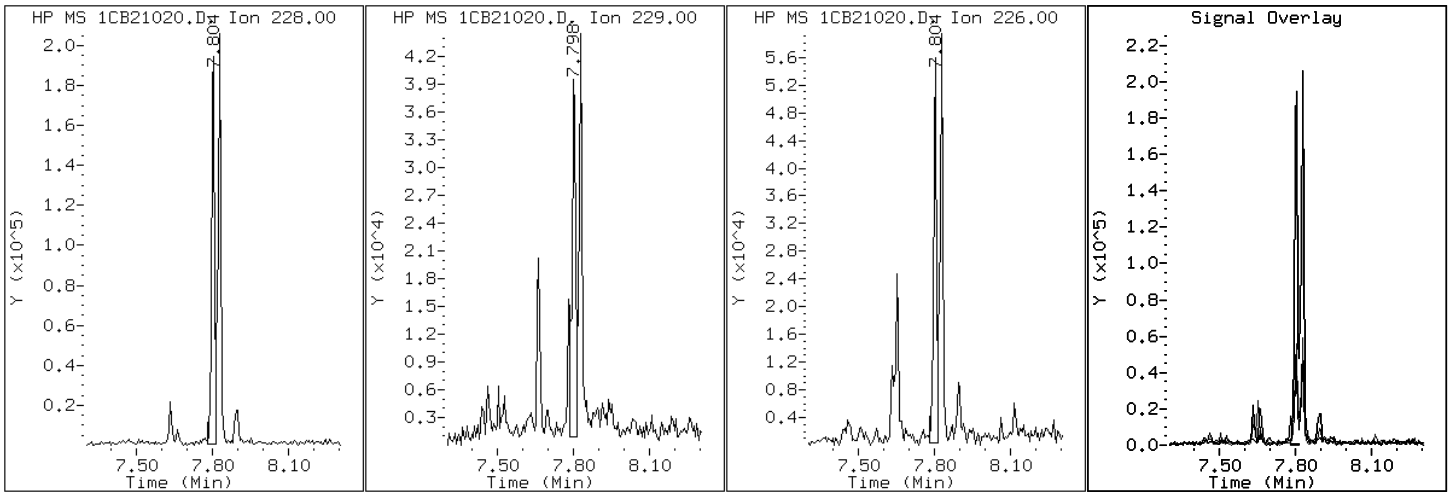
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

17 Benzo(a)anthracene



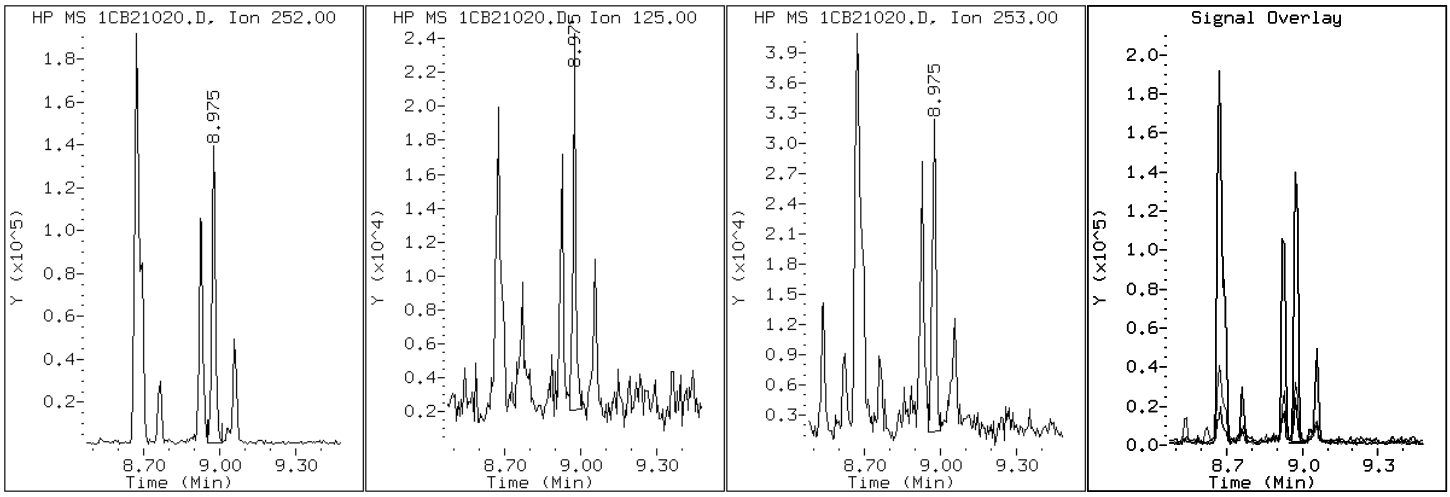
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

22 Benzo(a)pyrene



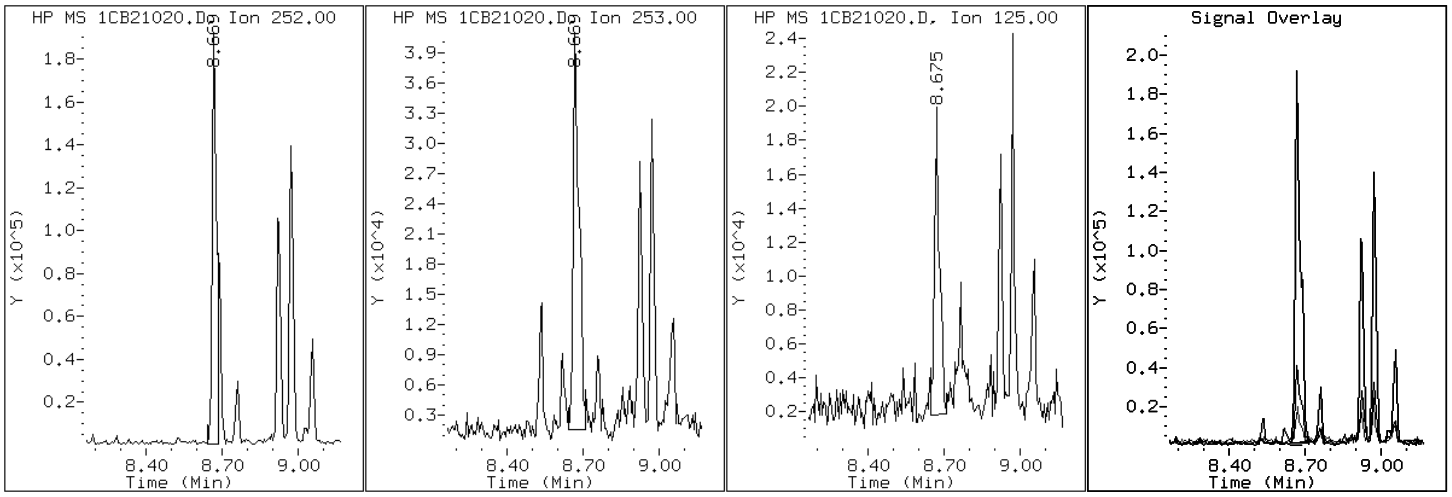
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

20 Benzo(b)fluoranthene



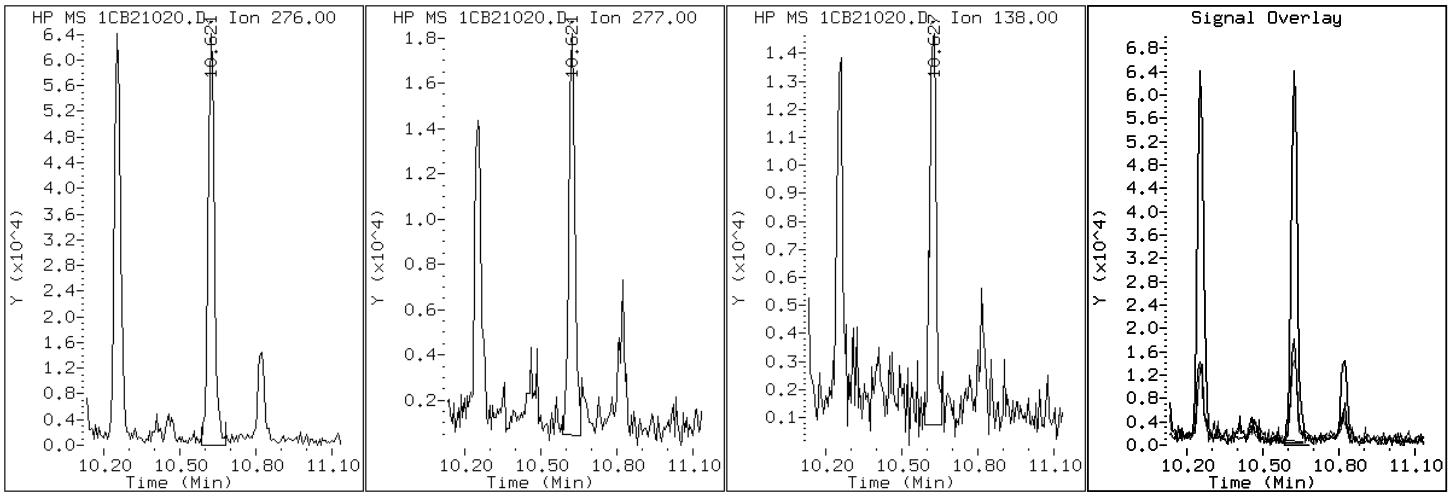
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

26 Benzo(g,h,i)perylene



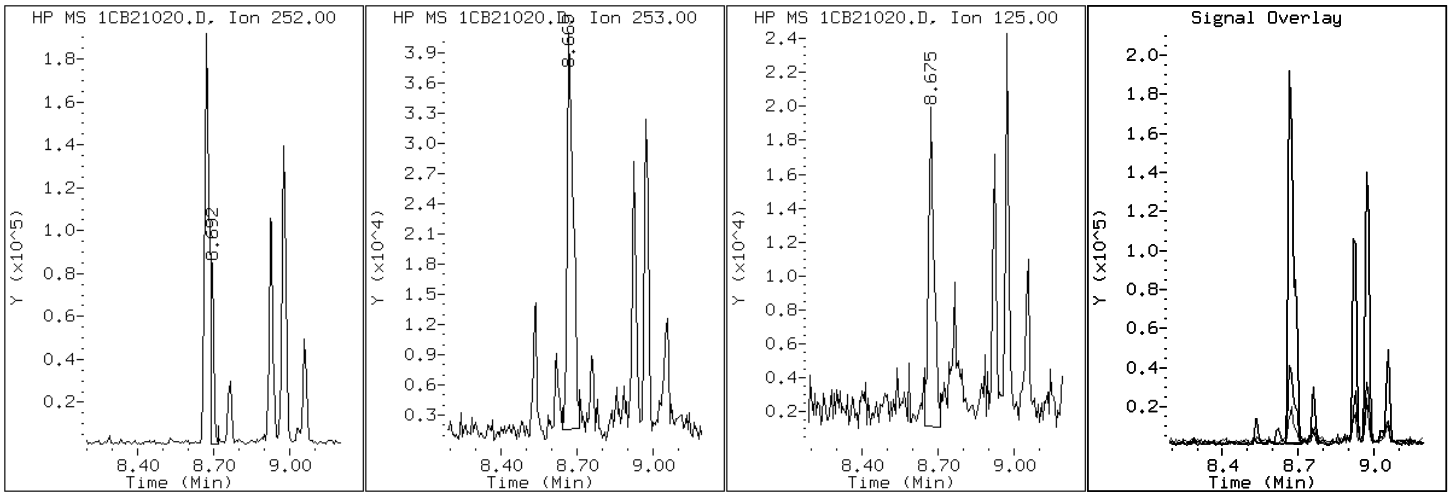
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

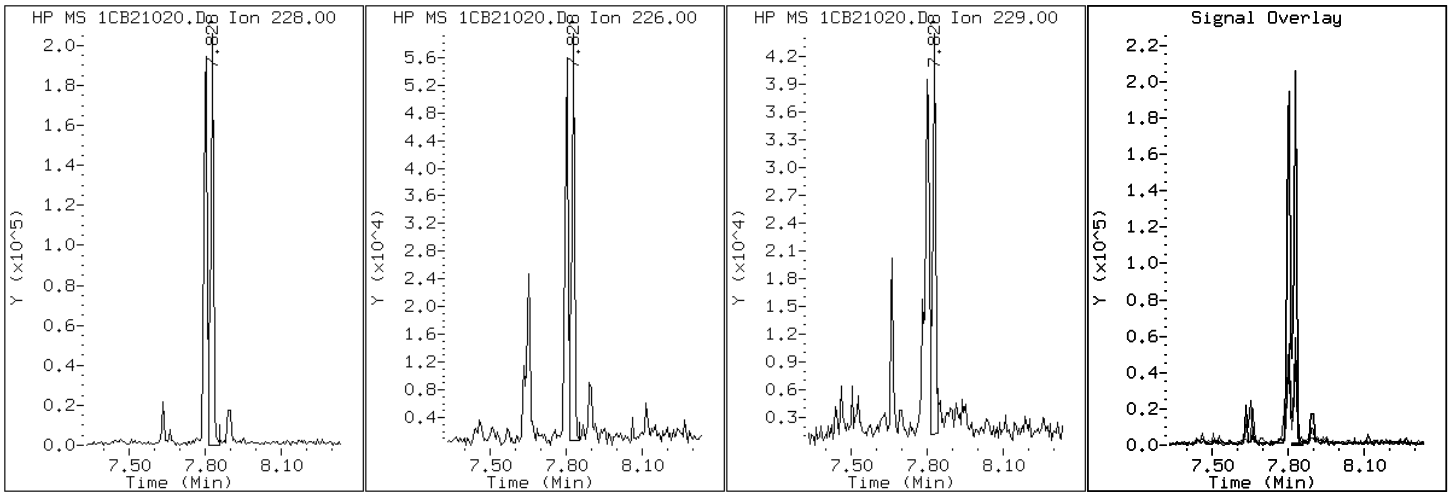
Client ID: CV0971AO-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a

Operator: SCC

19 Chrysene



Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

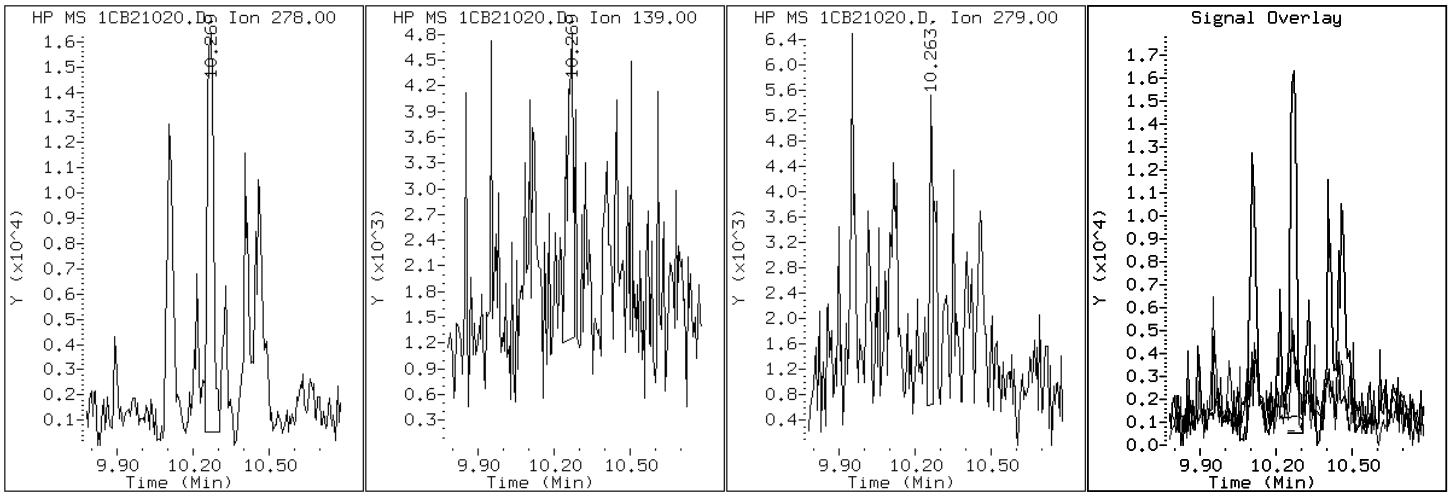
Client ID: CV0971AO-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a

Operator: SCC

25 Dibenzo(a,h)anthracene



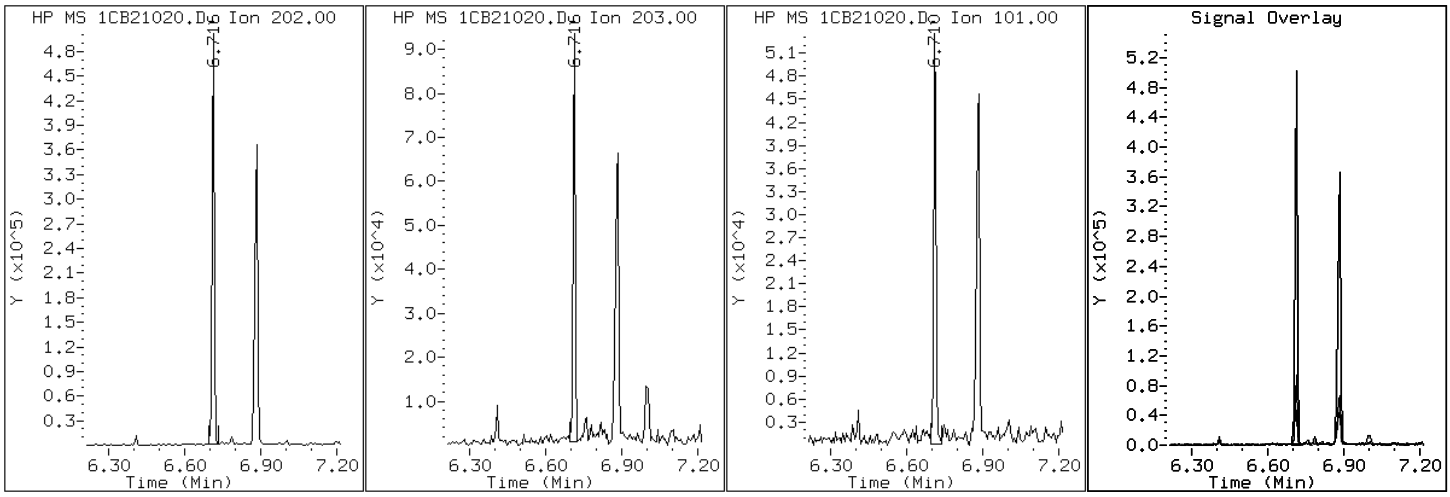
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

15 Fluoranthene



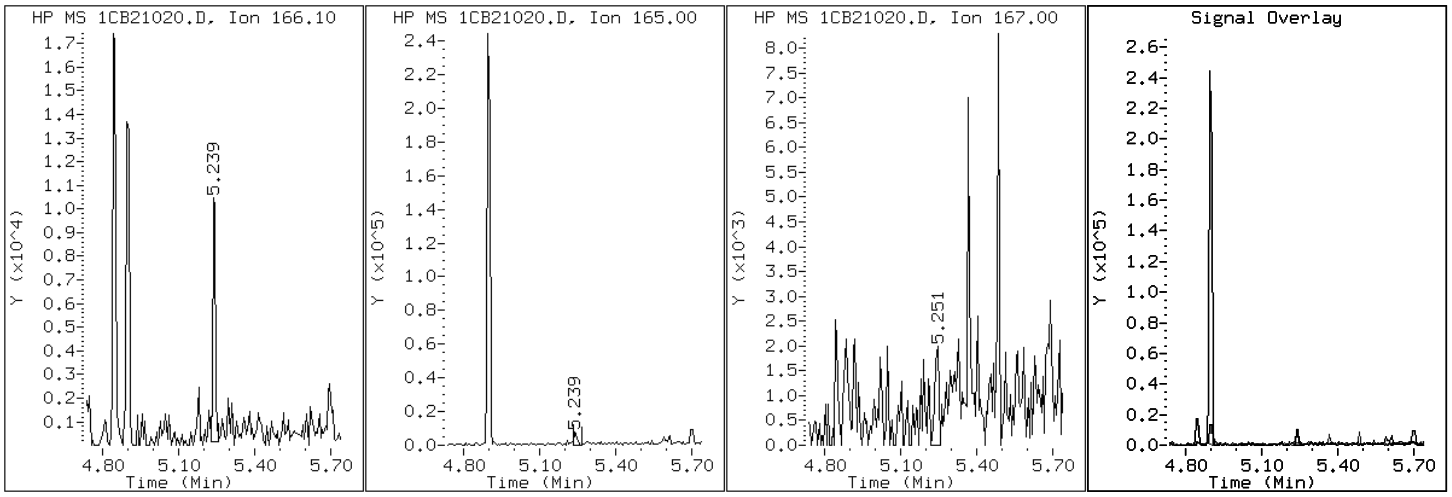
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

9 Fluorene



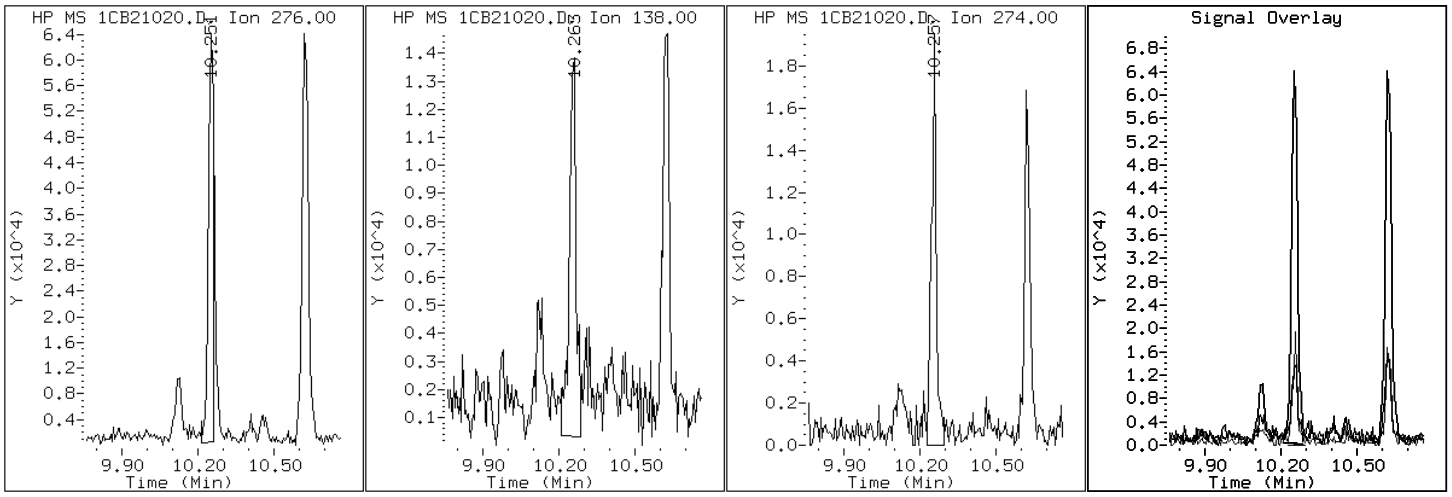
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

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



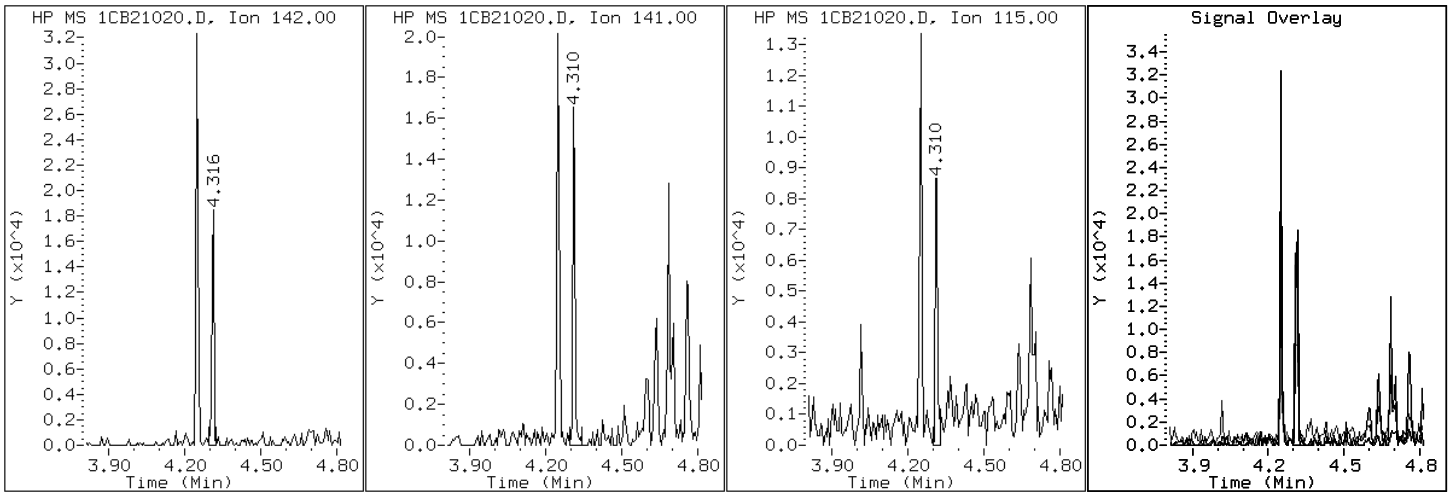
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

4 1-Methylnaphthalene



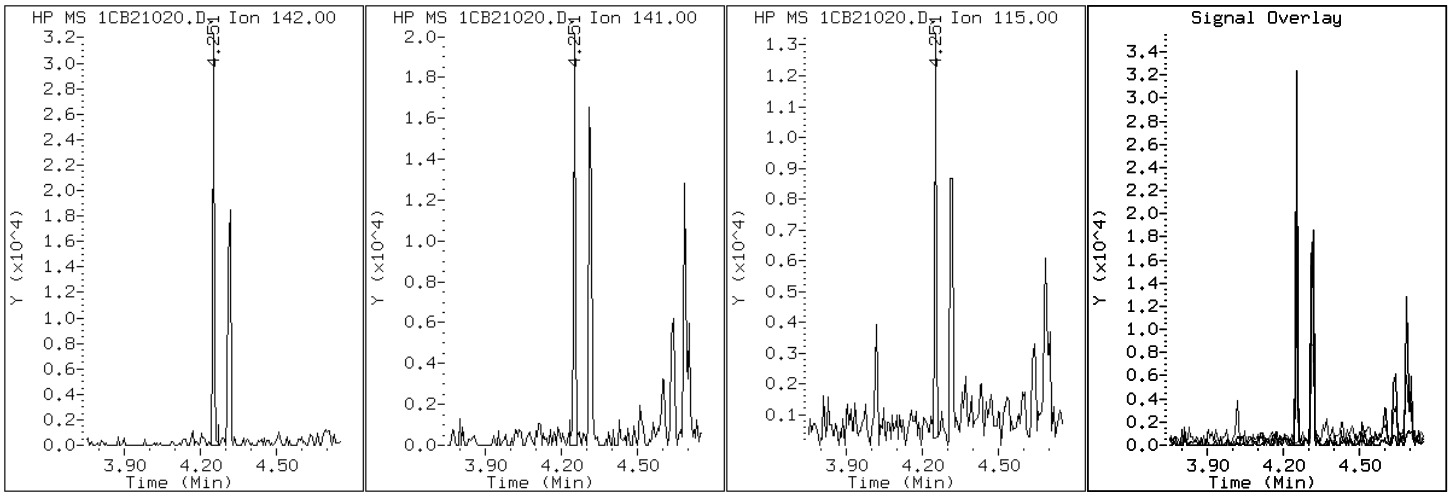
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

3 2-Methylnaphthalene



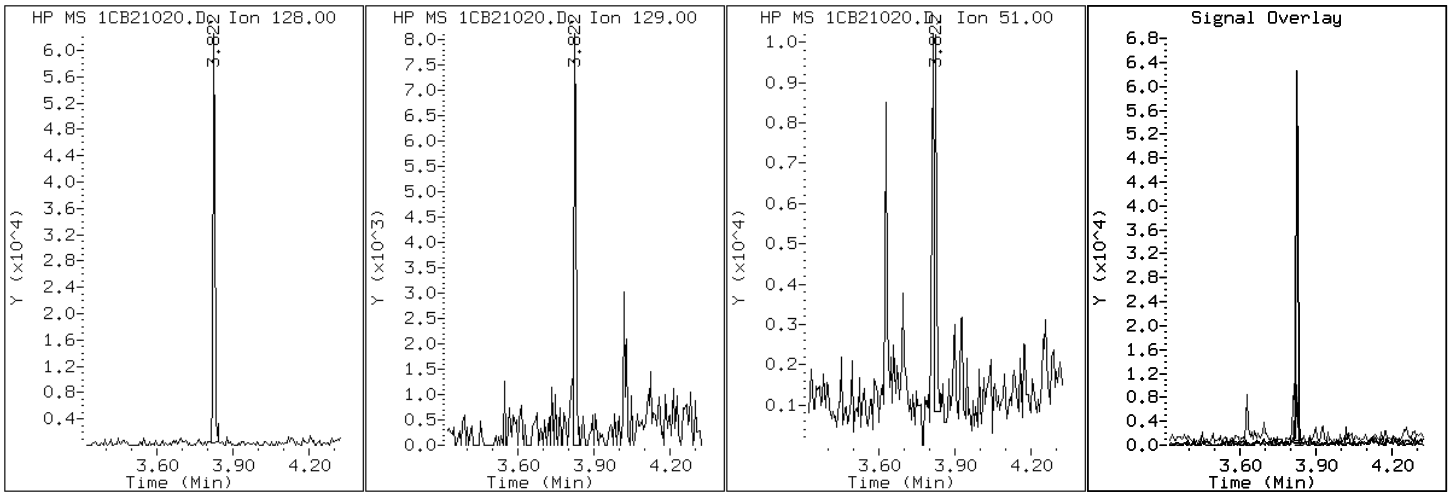
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

2 Naphthalene



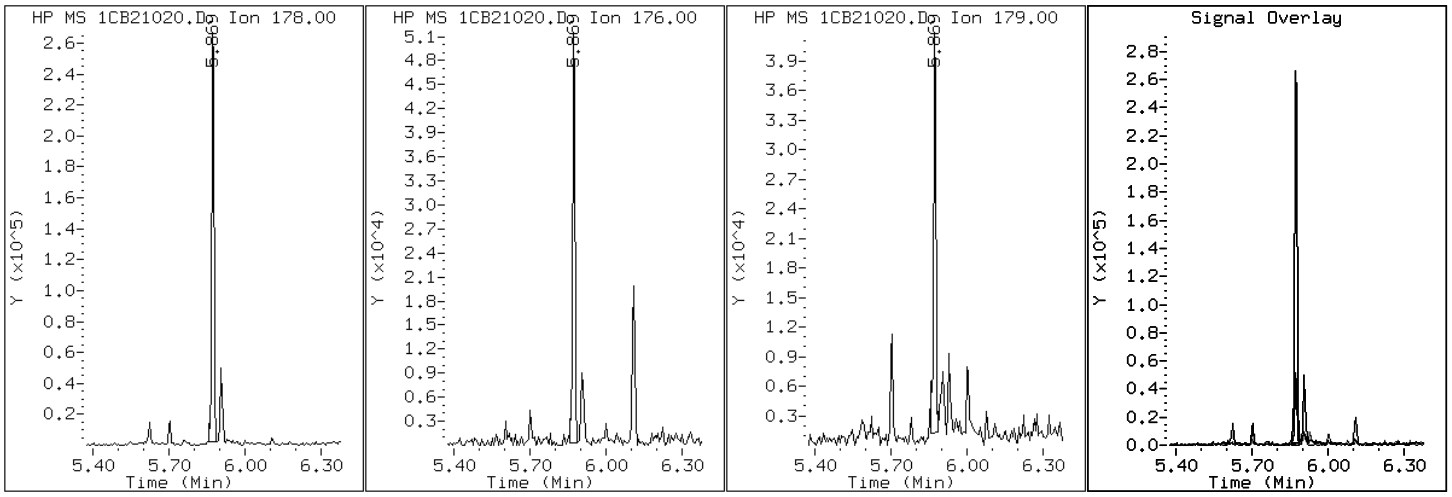
Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

Client ID: CV0971AO-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a Operator: SCC

11 Phenanthrene



Data File: 1CB21020.D

Date: 21-FEB-2013 16:59

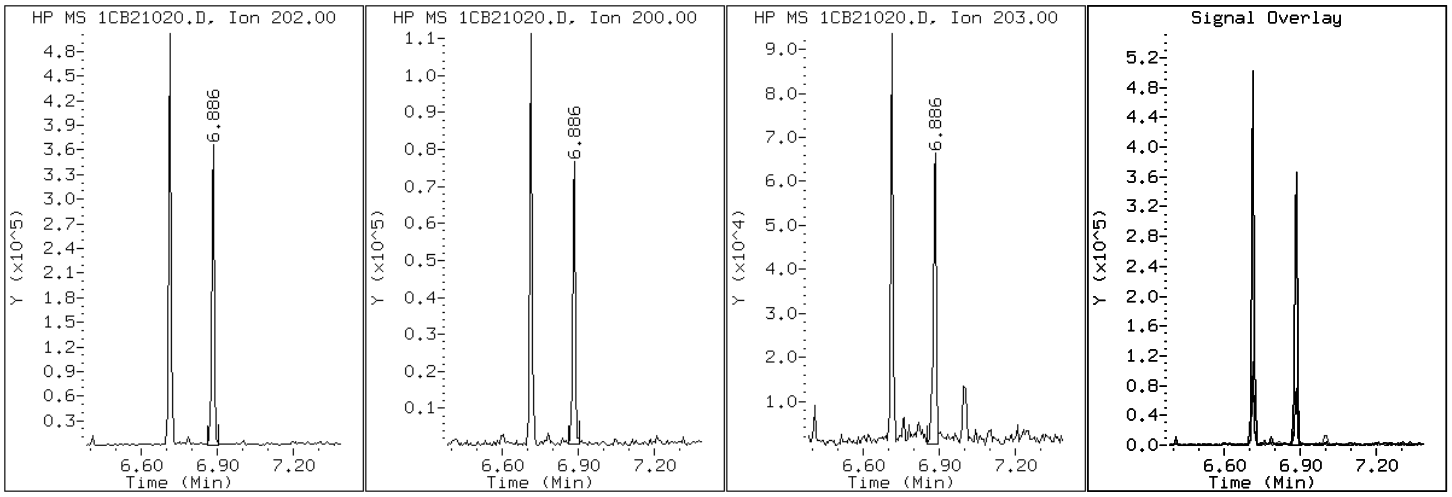
Client ID: CV0971AO-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-36-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21020.D
Inj. Date and Time: 21-FEB-2013 16:59
Instrument ID: BSMC5973.i
Client ID: CV0971AO-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/22/2013

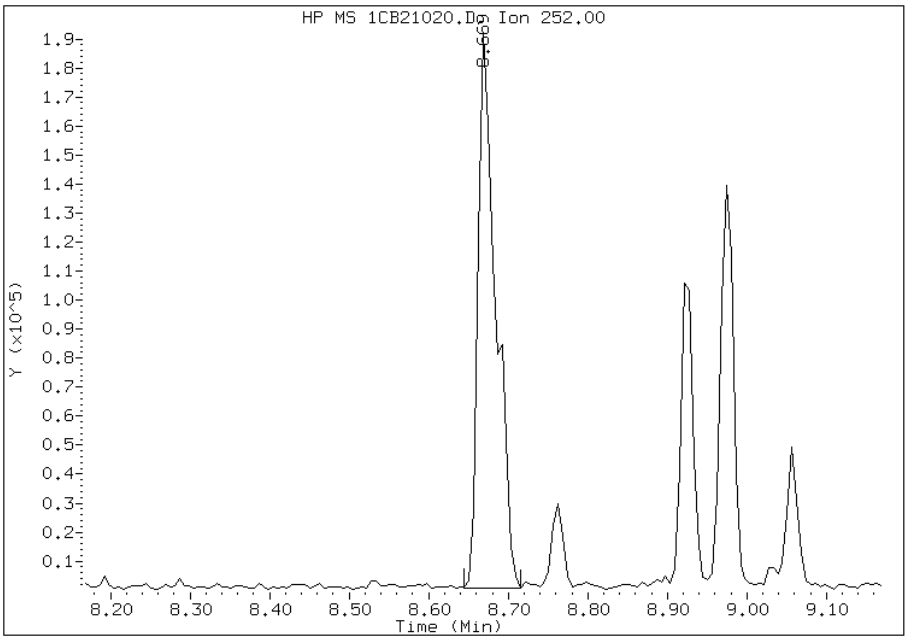
Processing Integration Results

RT: 8.67

Response: 299890

Amount: 5

Conc: 572



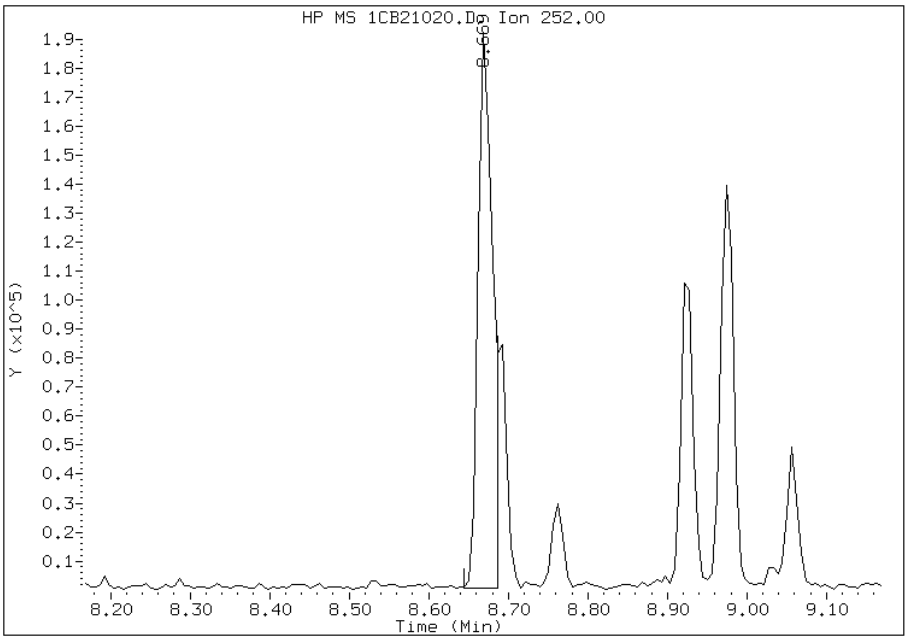
Manual Integration Results

RT: 8.67

Response: 245388

Amount: 4

Conc: 468



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 09:26
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB21020.D
Inj. Date and Time: 21-FEB-2013 16:59
Instrument ID: BSMC5973.i
Client ID: CV0971AO-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/22/2013

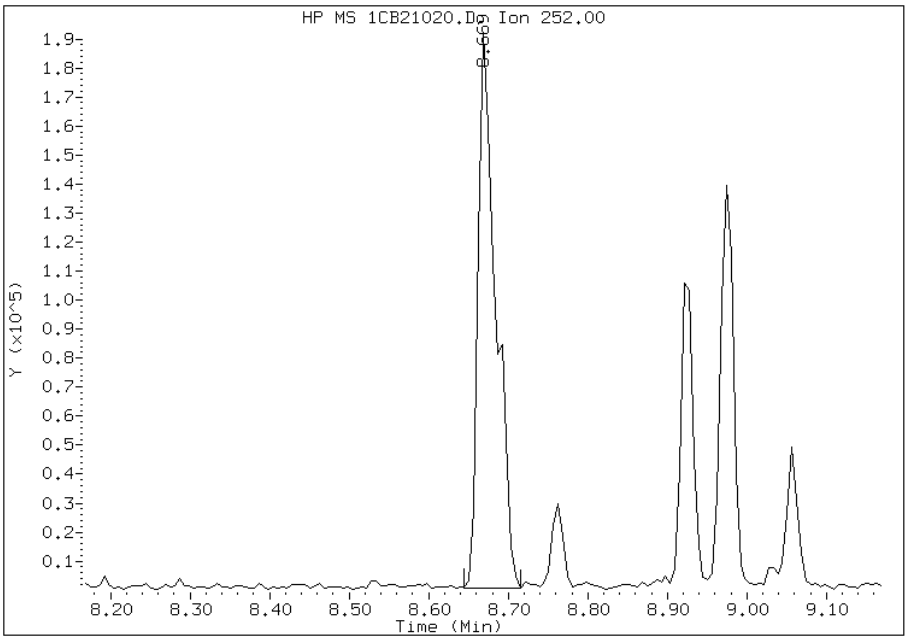
Processing Integration Results

RT: 8.67

Response: 299576

Amount: 5

Conc: 518



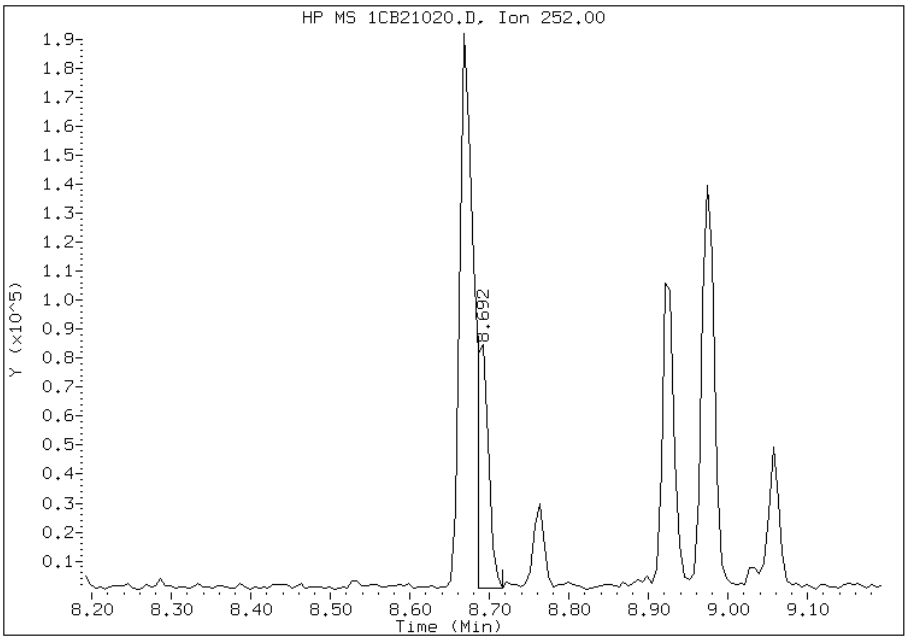
Manual Integration Results

RT: 8.69

Response: 82431

Amount: 1

Conc: 143



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 09:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21020.D
Inj. Date and Time: 21-FEB-2013 16:59
Instrument ID: BSMC5973.i
Client ID: CV0971AO-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

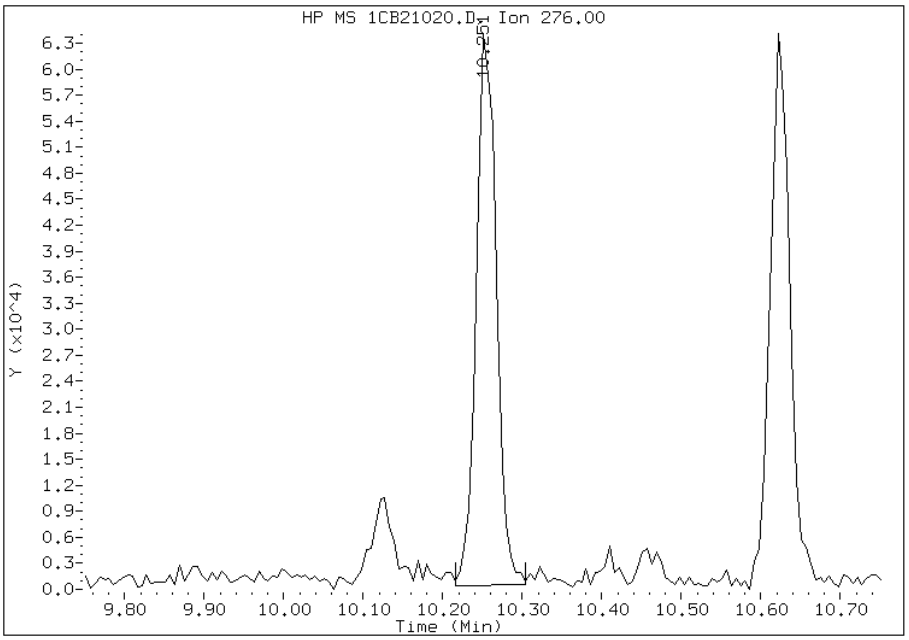
Processing Integration Results

RT: 10.25

Response: 110990

Amount: 2

Conc: 232



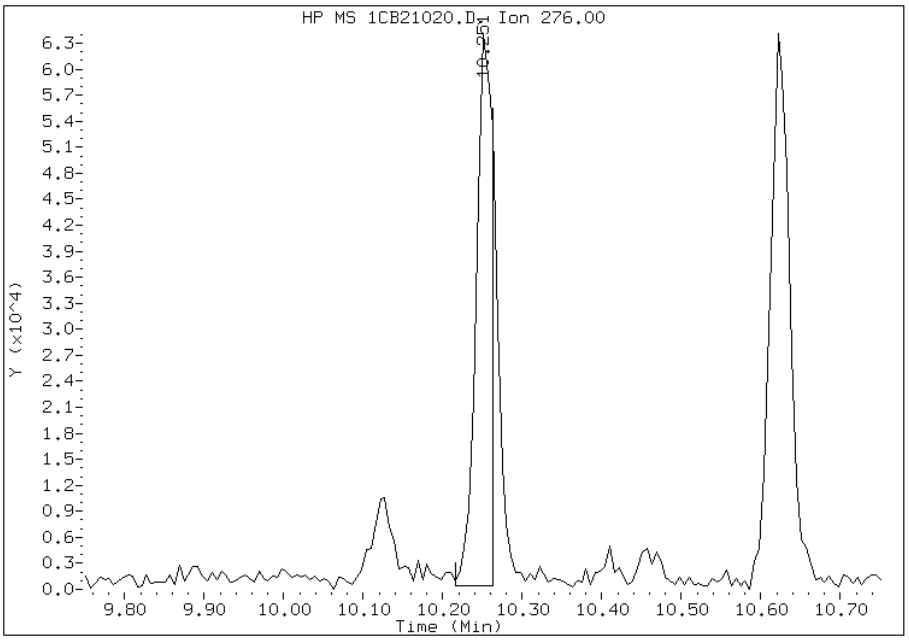
Manual Integration Results

RT: 10.25

Response: 90685

Amount: 2

Conc: 189



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 09:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971AP-GS | Lab Sample ID: 680-87496-37

Matrix: Solid | Lab File ID: 1CB21021.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:20

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.02(g) | Date Analyzed: 02/21/2013 17:18

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

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

% Moisture: 40.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	34
208-96-8	Acenaphthylene	23	J	67	8.4
120-12-7	Anthracene	53		14	7.1
56-55-3	Benzo[a]anthracene	240		13	6.6
50-32-8	Benzo[a]pyrene	230		18	8.8
205-99-2	Benzo[b]fluoranthene	370		21	10
191-24-2	Benzo[g,h,i]perylene	200		34	7.4
207-08-9	Benzo[k]fluoranthene	120		13	6.1
218-01-9	Chrysene	240		15	7.6
53-70-3	Dibenz(a,h)anthracene	58		34	6.9
206-44-0	Fluoranthene	420		34	6.7
86-73-7	Fluorene	22	J	34	6.9
193-39-5	Indeno[1,2,3-cd]pyrene	160		34	12
90-12-0	1-Methylnaphthalene	120		67	7.4
91-57-6	2-Methylnaphthalene	150		67	12
91-20-3	Naphthalene	210		67	7.4
85-01-8	Phenanthrene	290		13	6.6
129-00-0	Pyrene	420		34	6.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	115		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21021.D
Lab Smp Id: 680-87496-A-37-A Client Smp ID: CV0971AP-GS
Inj Date : 21-FEB-2013 17:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-37-a
Misc Info : 680-87496-A-37-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 21
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	40.668	% 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	3.810	3.810	(1.000)	1694808	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1296698	40.0000	
* 10 Phenanthrene-d10	188	5.856	5.857	(1.000)	2344824	40.0000	
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	394372	11.4786	1288.0461
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2448925	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2298757	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	85291	1.89915	213.1077
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	39035	1.33674	149.9985
4 1-Methylnaphthalene	142	4.309	4.315	(1.131)	28813	1.08489	121.7377
5 Acenaphthylene	152	4.815	4.815	(0.983)	10692	0.20726	23.2568
9 Fluorene	166	5.239	5.239	(1.070)	8246	0.19854	22.2787
11 Phenanthrene	178	5.874	5.874	(1.003)	180892	2.58449	290.0117
12 Anthracene	178	5.904	5.904	(1.008)	29694	0.47088	52.8390
13 Carbazole	167	6.015	6.015	(1.027)	21603	0.39439	44.2558(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	255073	3.72961	418.5086
16 Pyrene	202	6.886	6.886	(0.882)	241303	3.70117	415.3175
17 Benzo(a)anthracene	228	7.803	7.803	(0.999)	142077	2.10383	236.0760
19 Chrysene	228	7.827	7.833	(1.002)	151564	2.17273	243.8070
20 Benzo(b)fluoranthene	252	8.674	8.668	(0.960)	184401	3.27196	367.1541(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	68861	1.10909	124.4536(QM)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	108325	2.01994	226.6624
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	74041	1.43746	161.3003(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	24921	0.51306	57.5716
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	92276	1.76361	197.8989(M)

QC Flag Legend

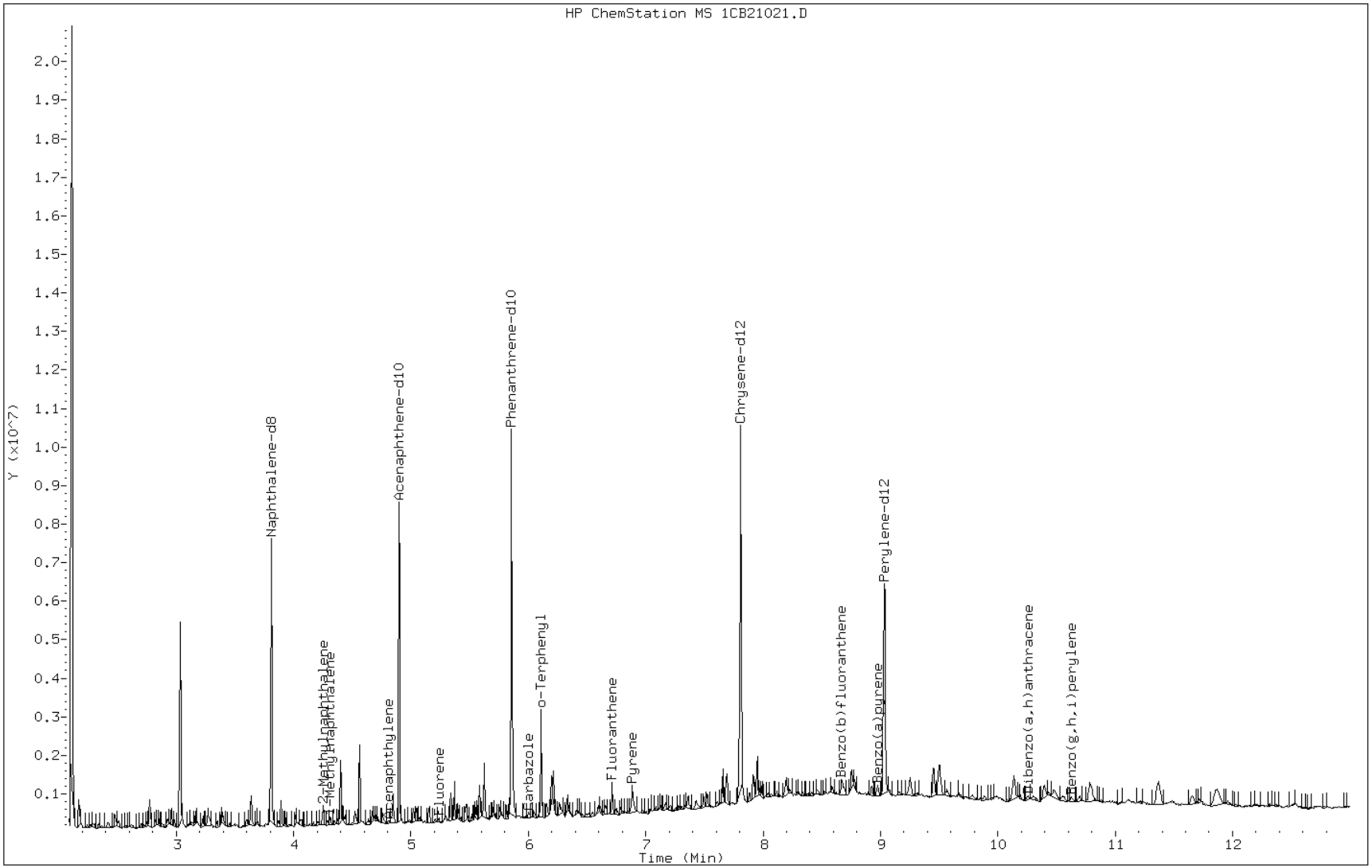
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC



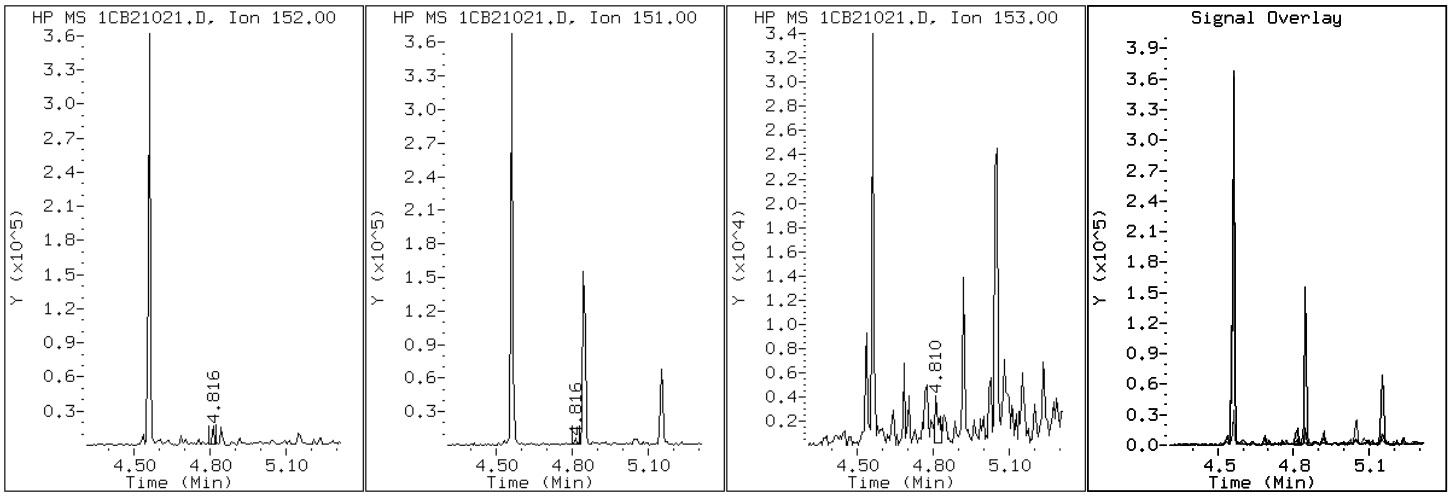
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

5 Acenaphthylene



Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

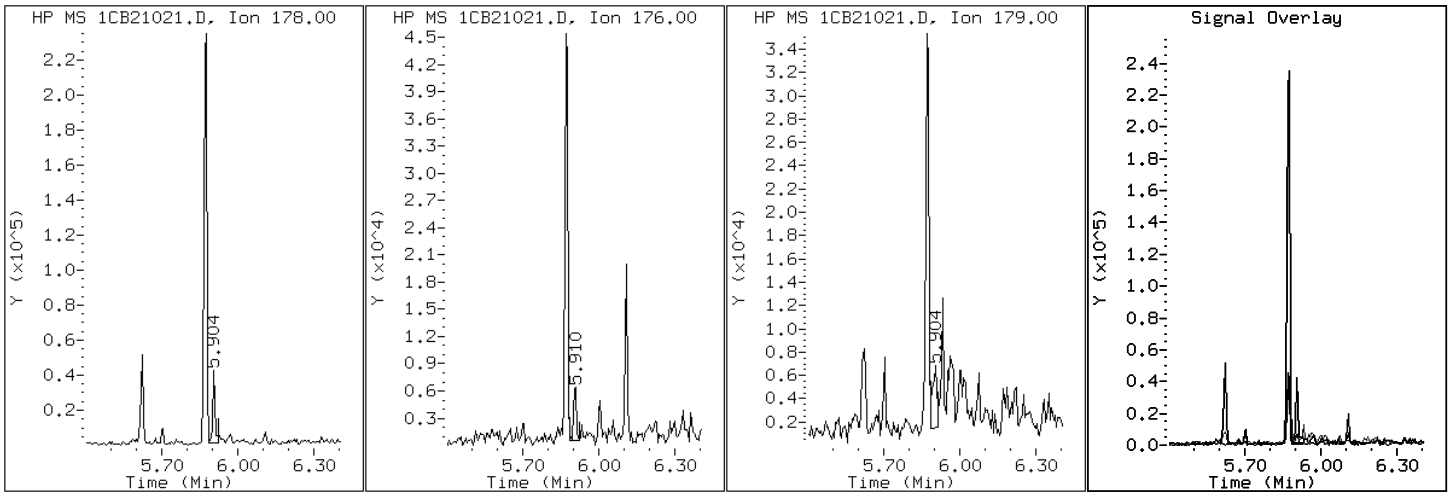
Client ID: CV0971AP-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a

Operator: SCC

12 Anthracene



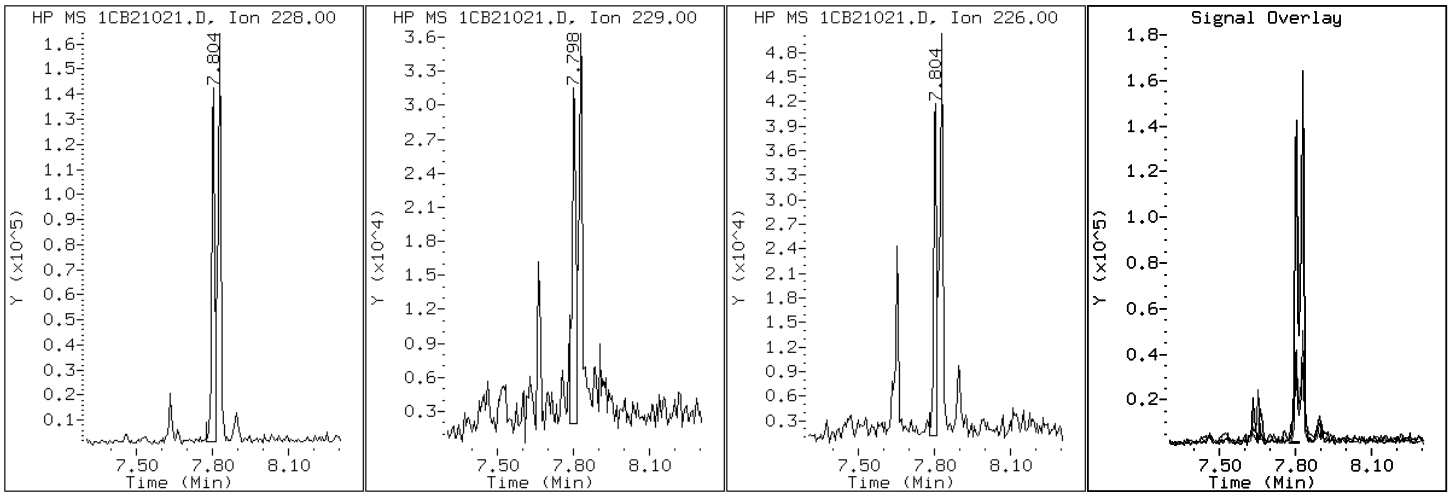
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

17 Benzo(a)anthracene



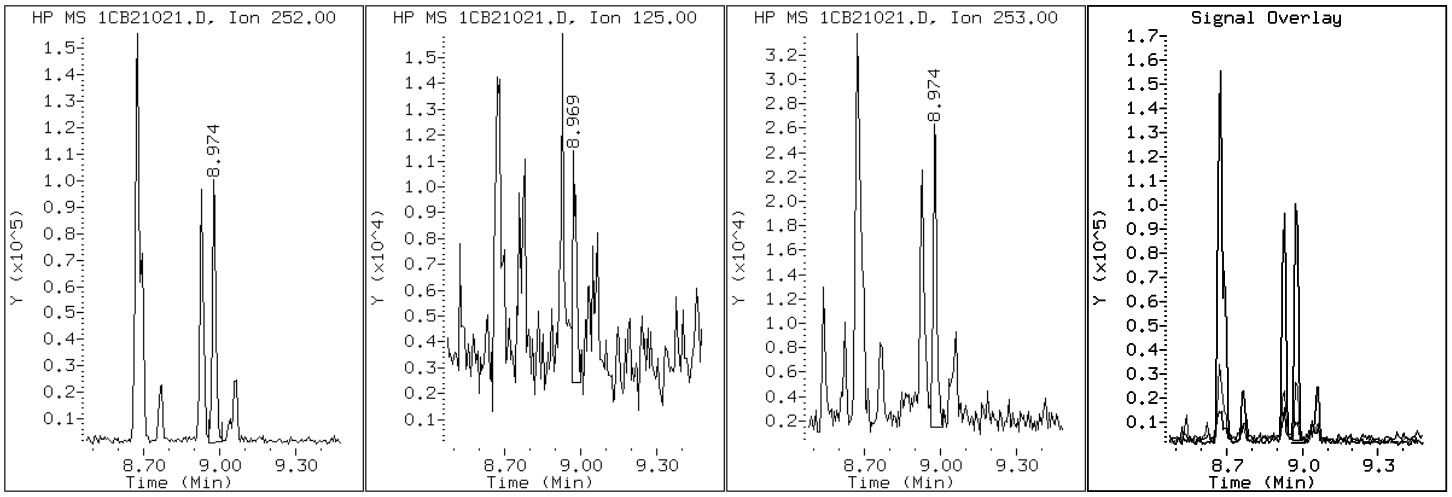
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

22 Benzo(a)pyrene



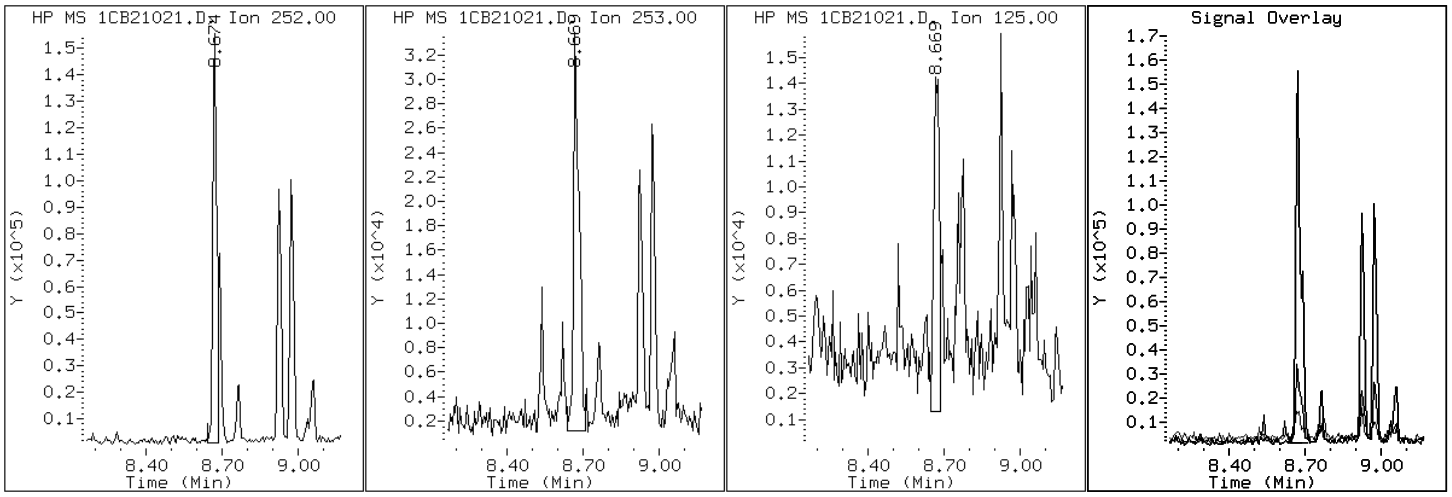
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

20 Benzo(b)fluoranthene



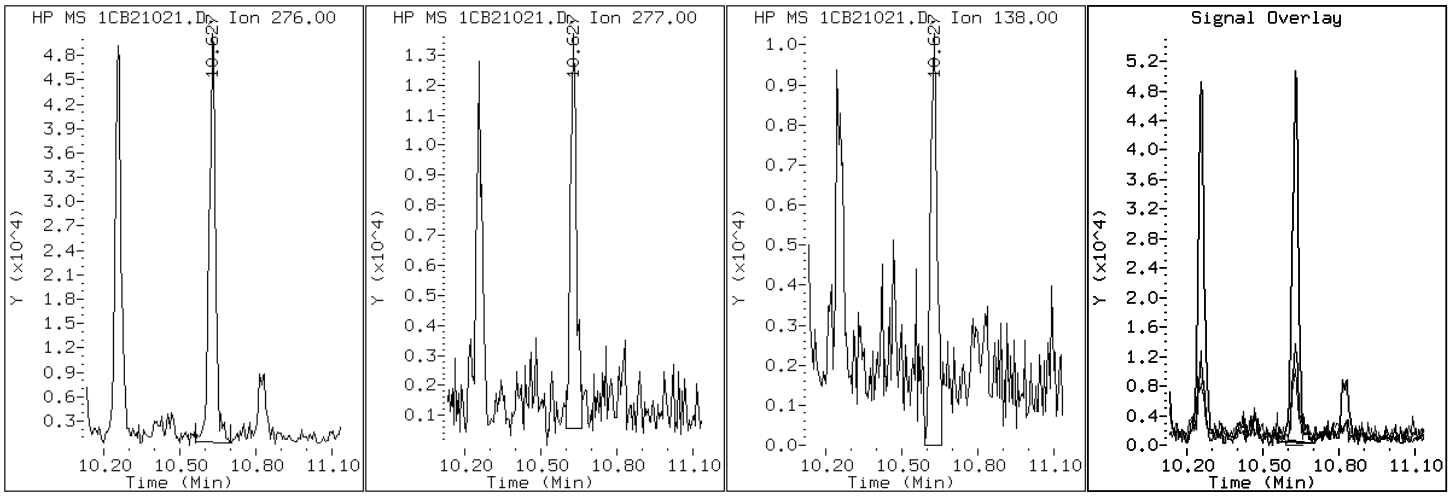
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

26 Benzo(g,h,i)perylene



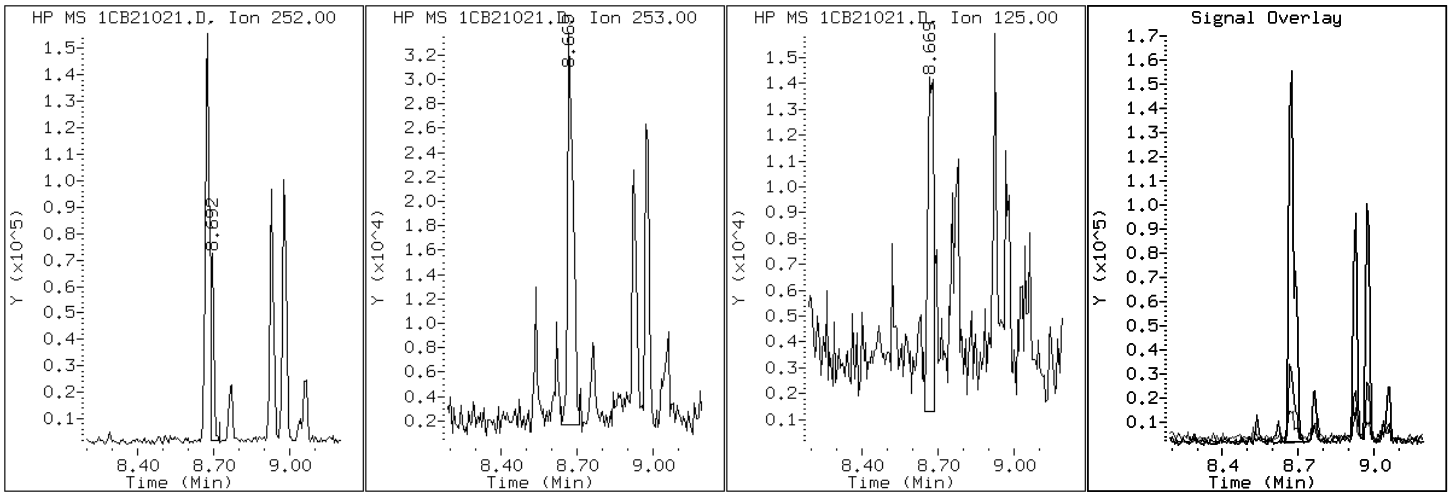
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

21 Benzo(k)fluoranthene



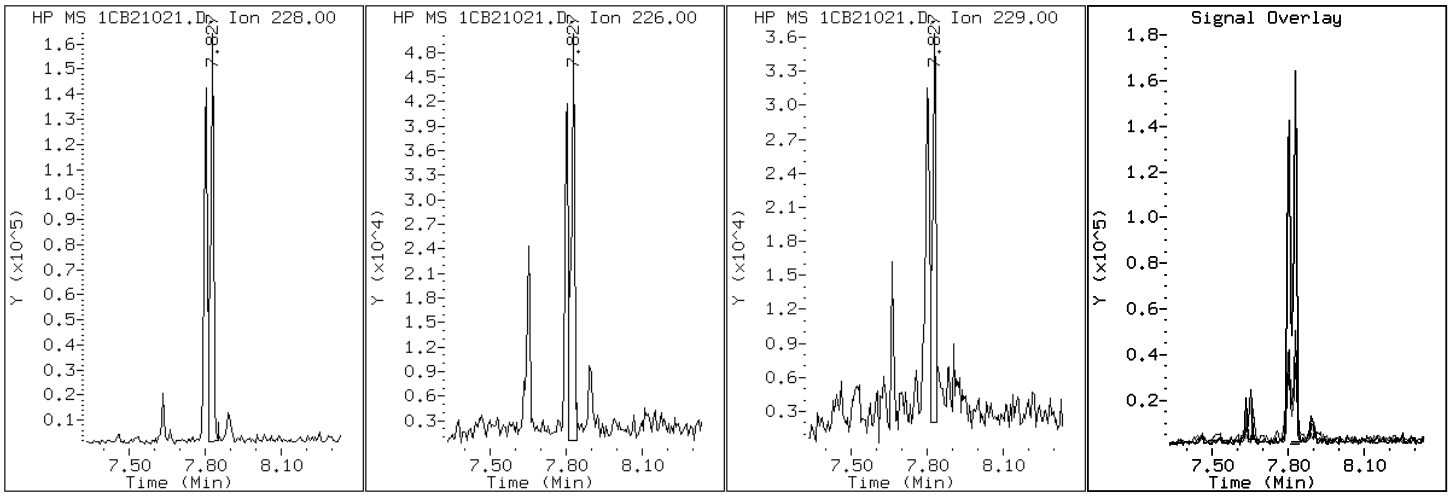
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

19 Chrysene



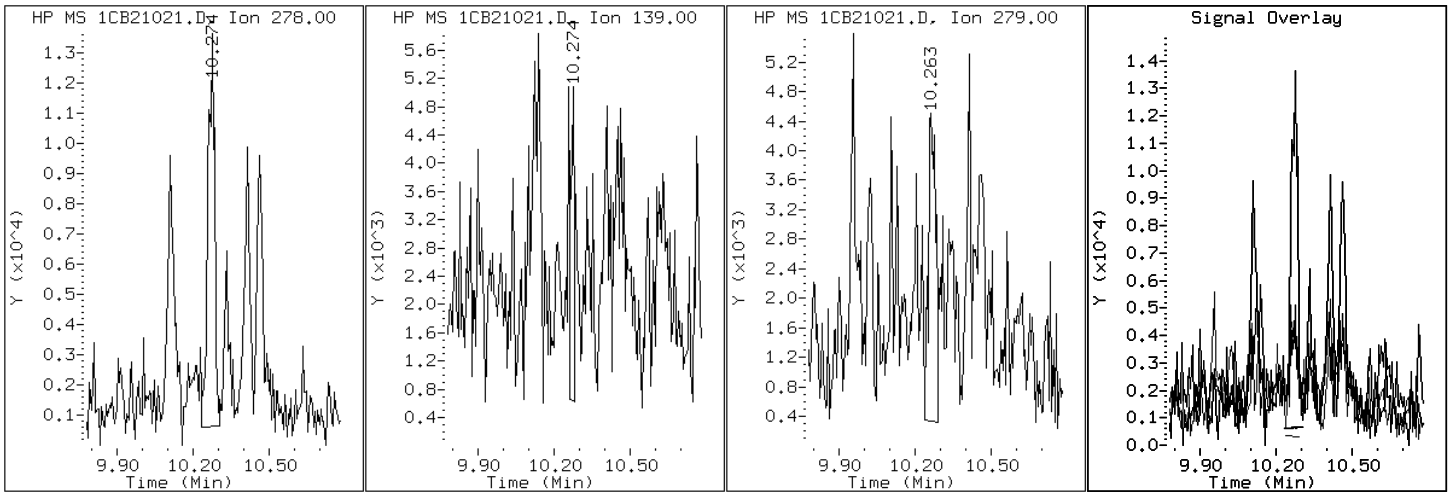
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

25 Dibenzo(a,h)anthracene



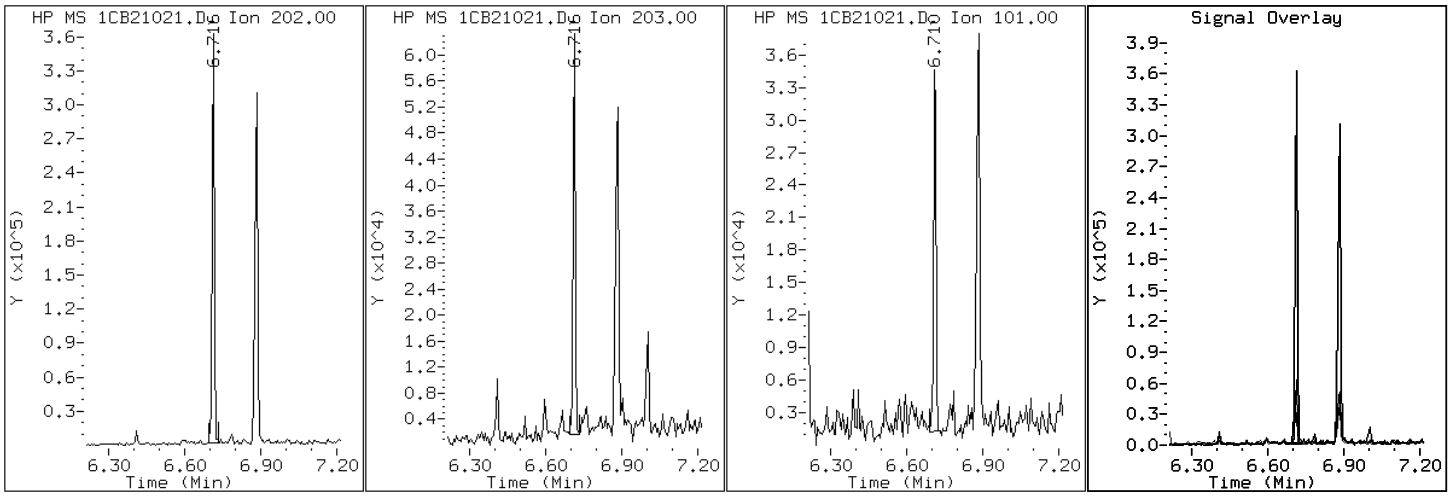
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

15 Fluoranthene



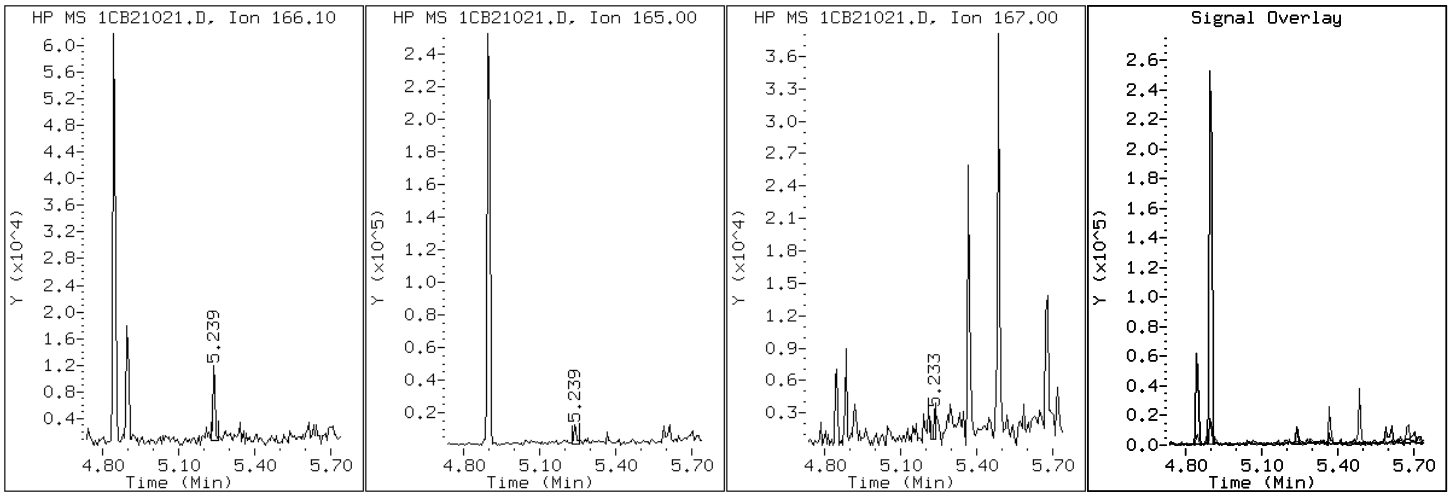
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

9 Fluorene



Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

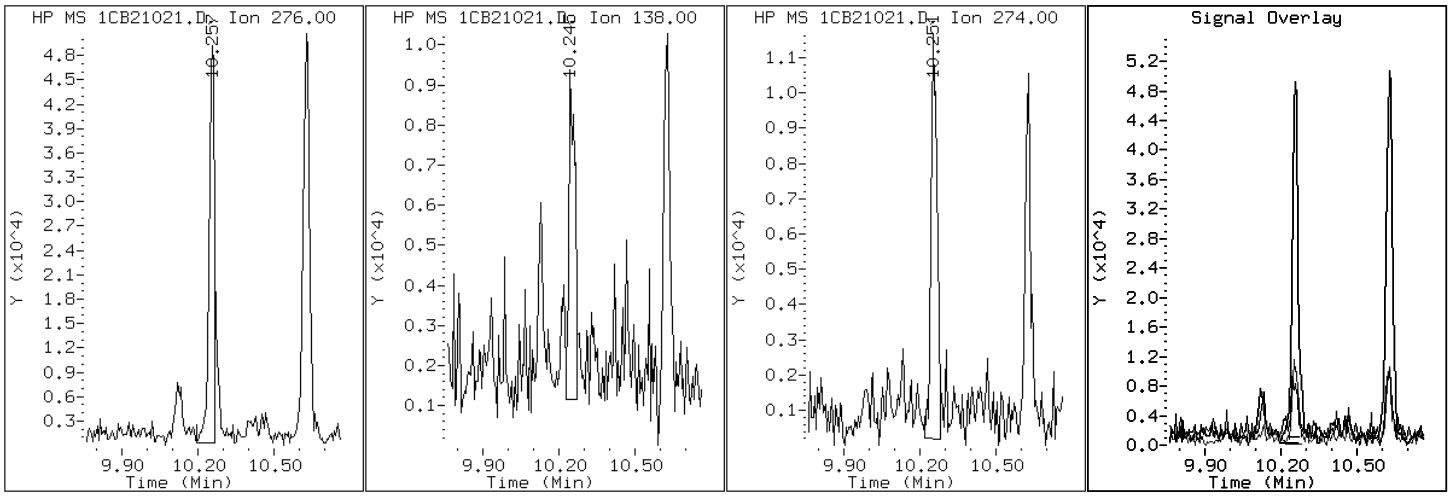
Client ID: CV0971AP-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a

Operator: SCC

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



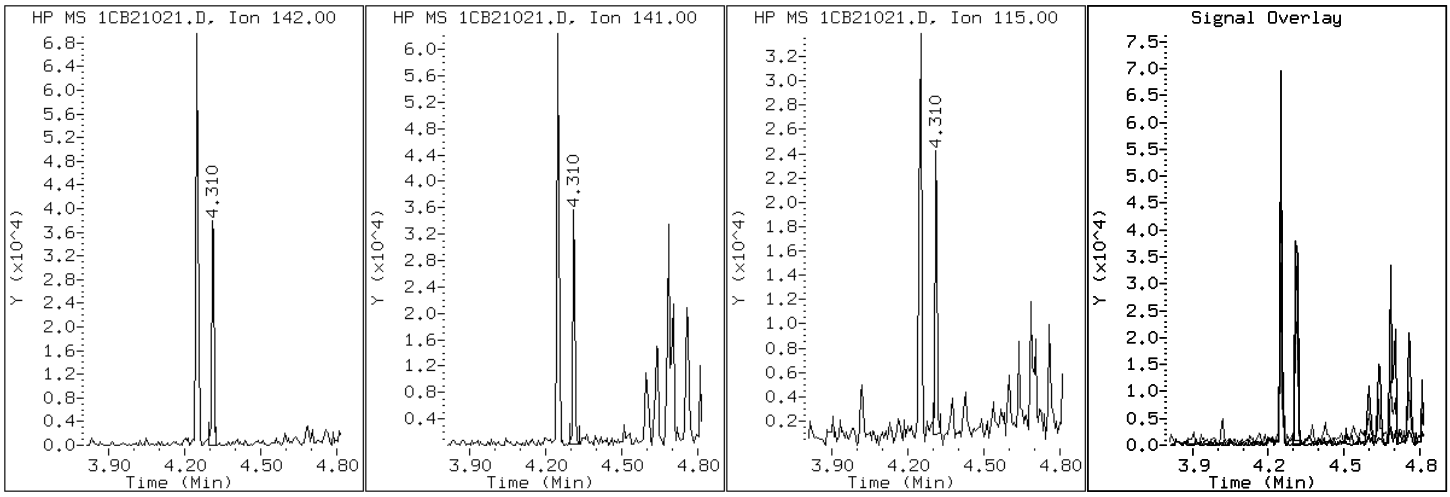
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

4 1-Methylnaphthalene



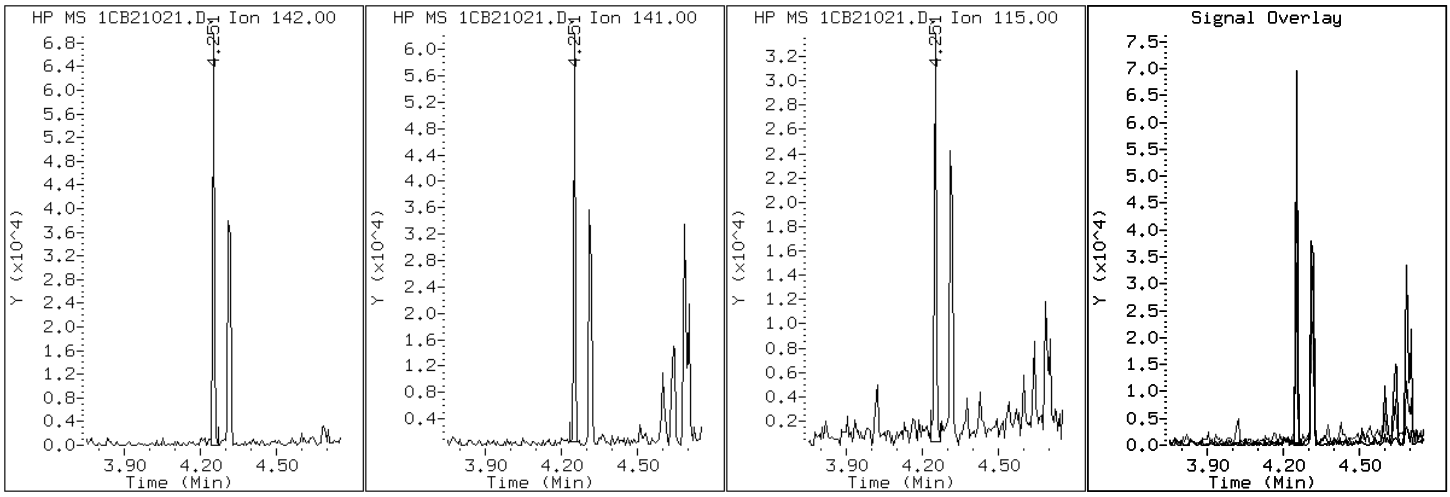
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

3 2-Methylnaphthalene



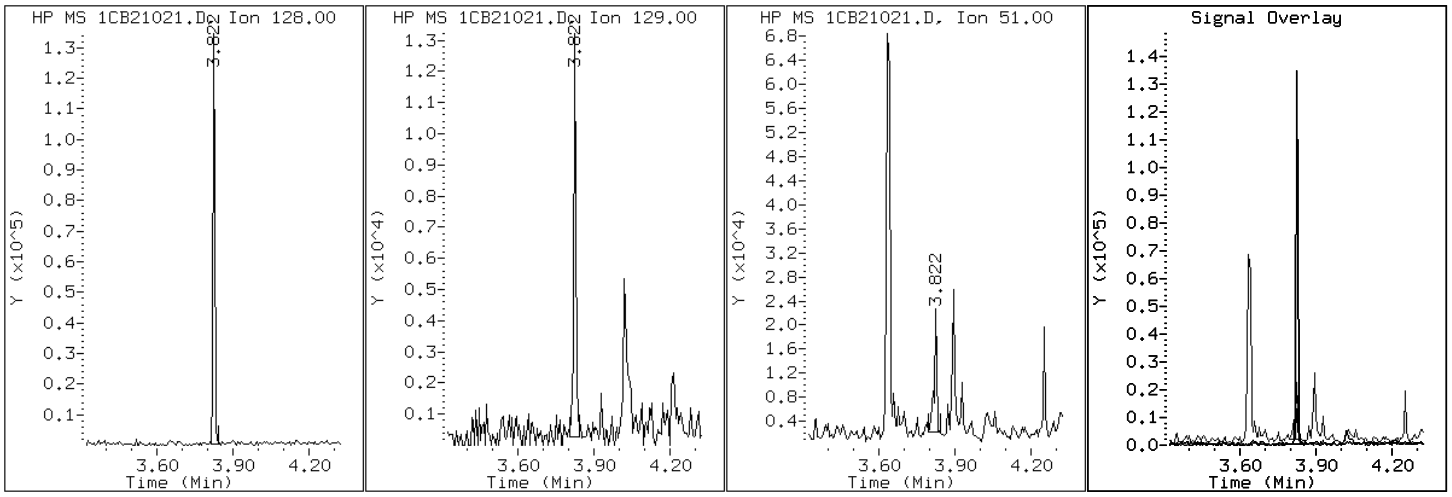
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

2 Naphthalene



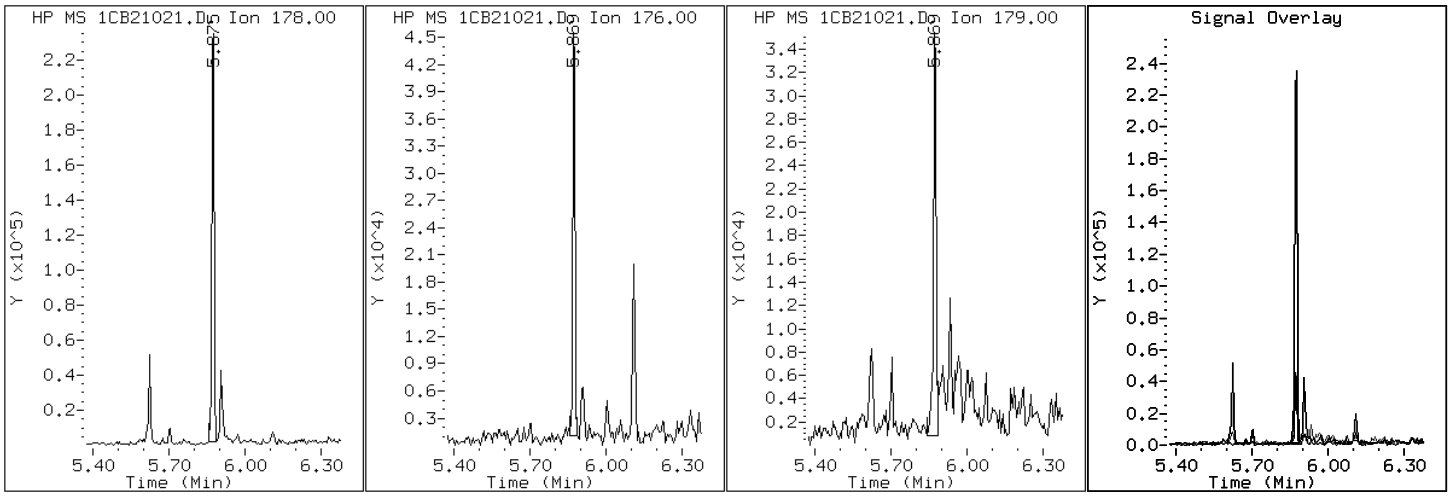
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS | Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a | Operator: SCC

11 Phenanthrene



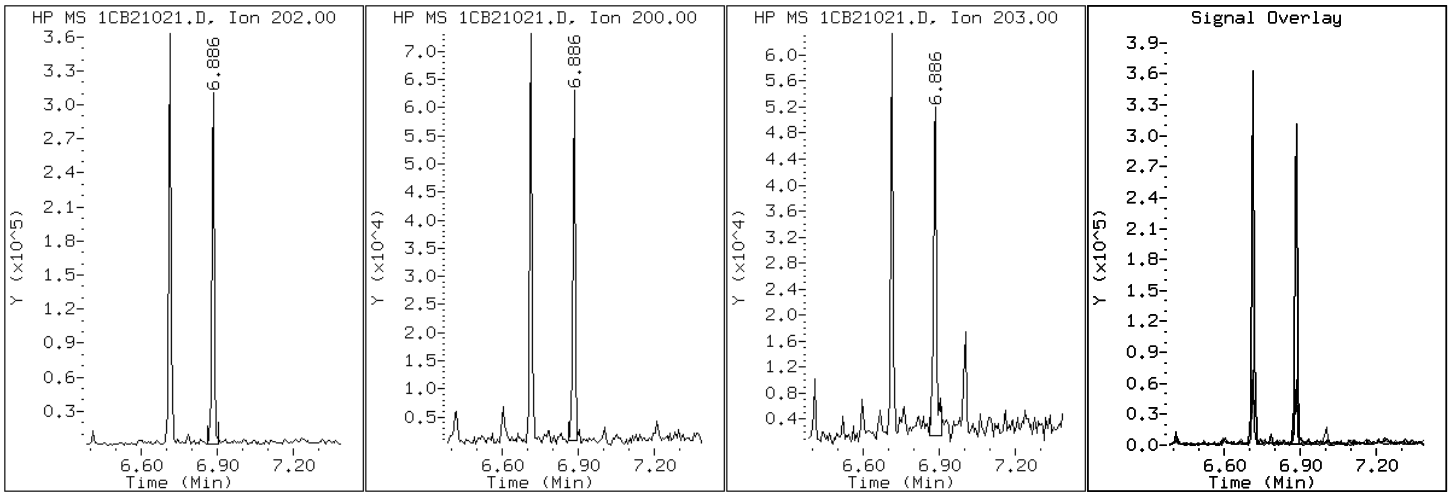
Data File: 1CB21021.D

Date: 21-FEB-2013 17:18

Client ID: CV0971AP-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-37-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21021.D
Inj. Date and Time: 21-FEB-2013 17:18
Instrument ID: BSMC5973.i
Client ID: CV0971AP-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/22/2013

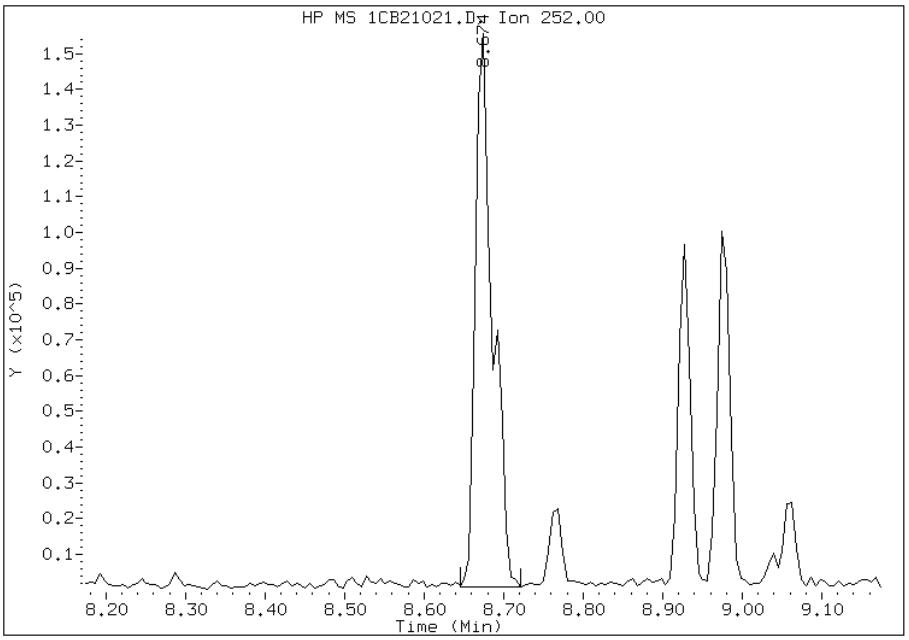
Processing Integration Results

RT: 8.67

Response: 233423

Amount: 4

Conc: 465



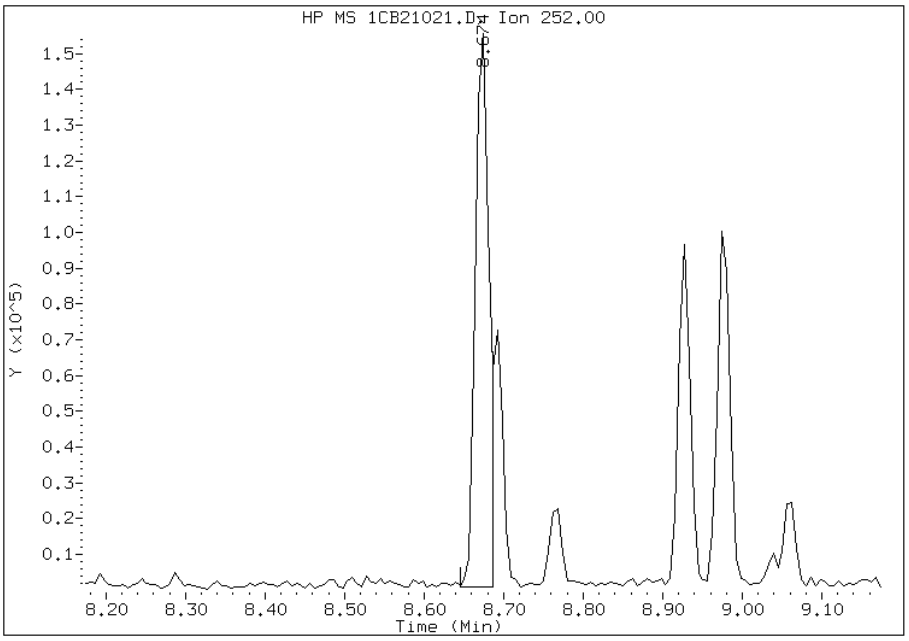
Manual Integration Results

RT: 8.67

Response: 184401

Amount: 3

Conc: 367



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 09:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB21021.D
Inj. Date and Time: 21-FEB-2013 17:18
Instrument ID: BSMC5973.i
Client ID: CV0971AP-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/22/2013

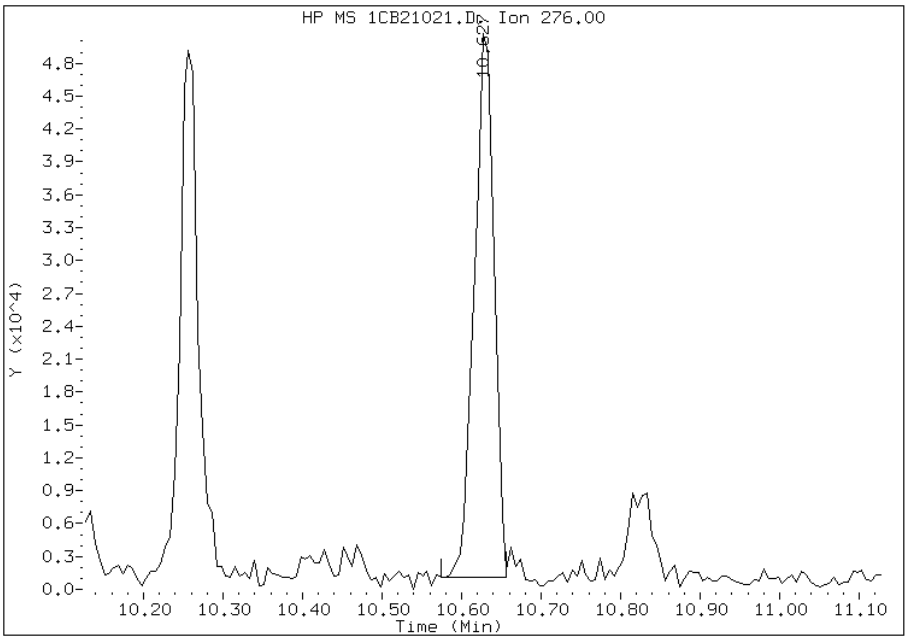
Processing Integration Results

RT: 10.63

Response: 85178

Amount: 2

Conc: 183



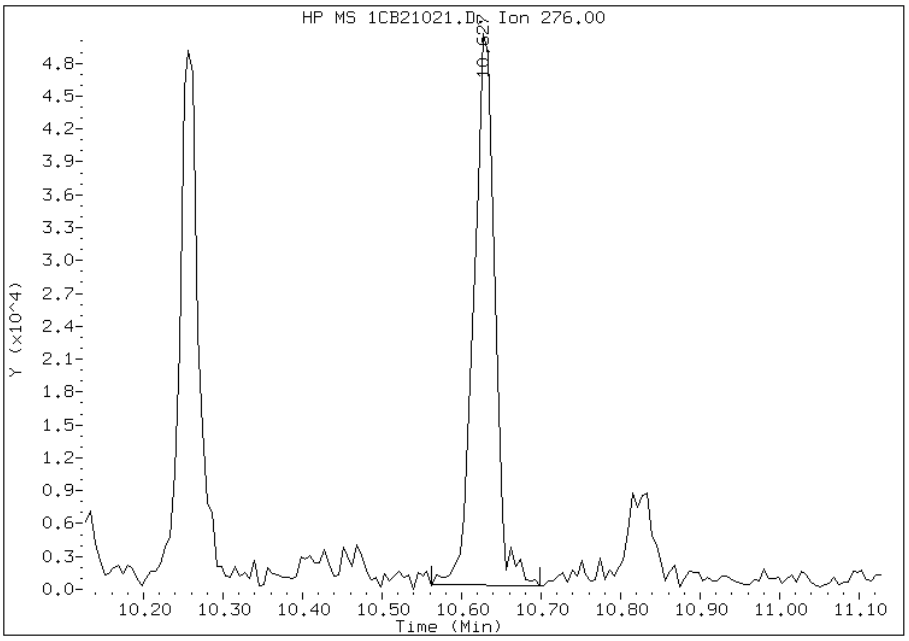
Manual Integration Results

RT: 10.63

Response: 92276

Amount: 2

Conc: 198



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 09:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21021.D
Inj. Date and Time: 21-FEB-2013 17:18
Instrument ID: BSMC5973.i
Client ID: CV0971AP-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/22/2013

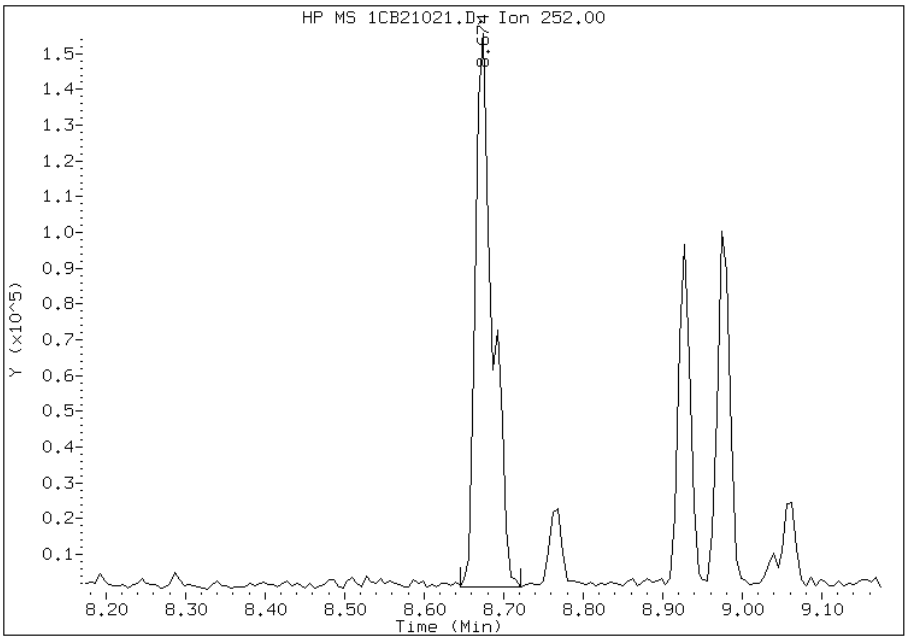
Processing Integration Results

RT: 8.67

Response: 233658

Amount: 4

Conc: 422



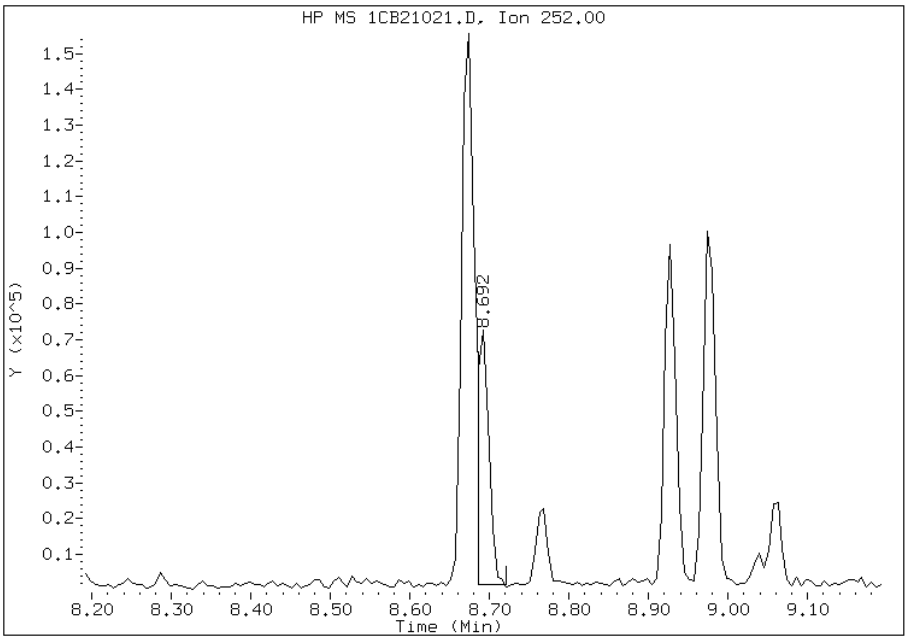
Manual Integration Results

RT: 8.69

Response: 68861

Amount: 1

Conc: 124



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 09:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21021.D
Inj. Date and Time: 21-FEB-2013 17:18
Instrument ID: BSMC5973.i
Client ID: CV0971AP-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

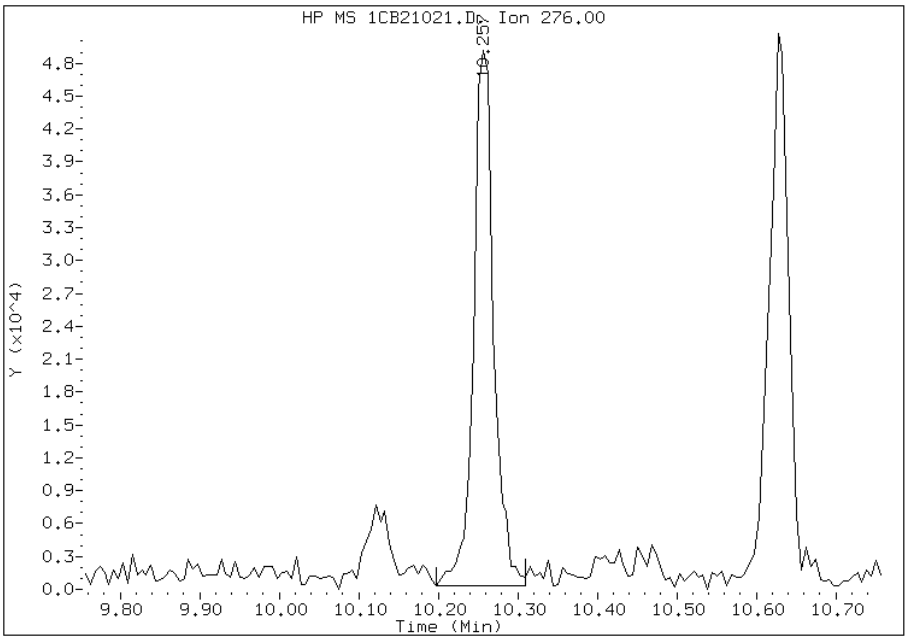
Processing Integration Results

RT: 10.26

Response: 86033

Amount: 2

Conc: 187



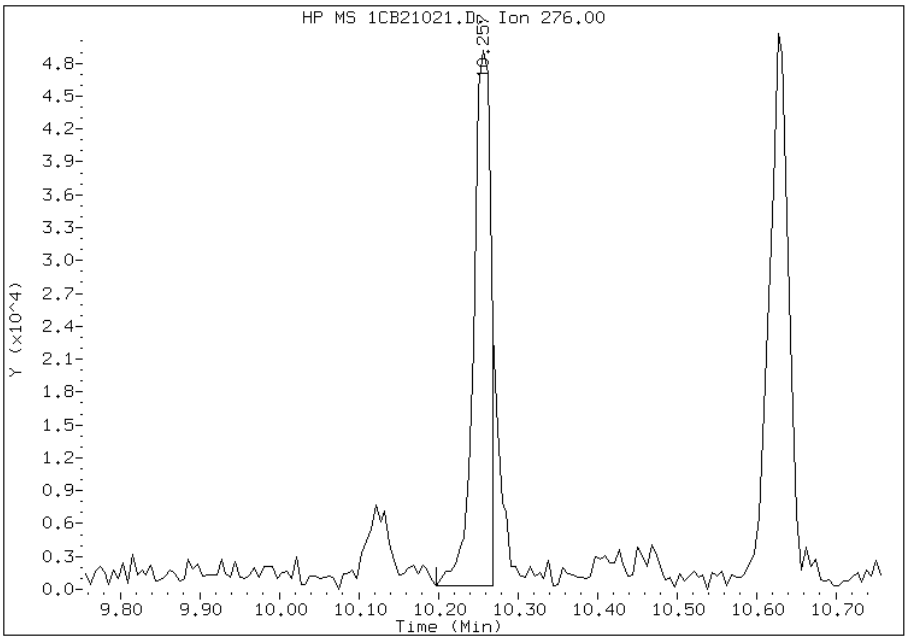
Manual Integration Results

RT: 10.26

Response: 74041

Amount: 1

Conc: 161



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 09:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971AQ-GS | Lab Sample ID: 680-87496-38

Matrix: Solid | Lab File ID: 1CB21022.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:22

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.26(g) | Date Analyzed: 02/21/2013 17:36

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

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

% Moisture: 28.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	41	J	55	6.8
120-12-7	Anthracene	22		11	5.7
56-55-3	Benzo[a]anthracene	180		11	5.3
50-32-8	Benzo[a]pyrene	190		14	7.1
205-99-2	Benzo[b]fluoranthene	310		17	8.3
191-24-2	Benzo[g,h,i]perylene	160		27	6.0
207-08-9	Benzo[k]fluoranthene	100		11	4.9
218-01-9	Chrysene	170		12	6.1
53-70-3	Dibenz(a,h)anthracene	42		27	5.6
206-44-0	Fluoranthene	290		27	5.5
86-73-7	Fluorene	8.1	J	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	140		27	9.7
90-12-0	1-Methylnaphthalene	25	J	55	6.0
91-57-6	2-Methylnaphthalene	33	J	55	9.7
91-20-3	Naphthalene	42	J	55	6.0
85-01-8	Phenanthrene	95		11	5.3
129-00-0	Pyrene	310		27	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	98		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21022.D
Lab Smp Id: 680-87496-A-38-A Client Smp ID: CV0971AQ-GS
Inj Date : 21-FEB-2013 17:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-38-a
Misc Info : 680-87496-A-38-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 22
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	15.260	Weight Extracted
M	27.984	% 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	3.810	3.810	(1.000)	1770251	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1346448	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2453043	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	352622	9.81068	892.7244
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2607142	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2437073	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	21440	0.45705	41.5895
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	11190	0.36687	33.3830
4 1-Methylnaphthalene	142	4.316	4.315	(1.133)	7653	0.27588	25.1033
5 Acenaphthylene	152	4.815	4.815	(0.983)	24395	0.45541	41.4399
9 Fluorene	166	5.245	5.239	(1.071)	3838	0.08899	8.0980
11 Phenanthrene	178	5.868	5.874	(1.002)	76190	1.04054	94.6840
12 Anthracene	178	5.904	5.904	(1.008)	16084	0.24381	22.1851
13 Carbazole	167	6.015	6.015	(1.027)	11086	0.19346	17.6041

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	224395	3.13630	285.3880
16 Pyrene	202	6.886	6.886	(0.882)	233688	3.36685	306.3672
17 Benzo(a)anthracene	228	7.804	7.803	(0.999)	144517	2.01010	182.9091
19 Chrysene	228	7.827	7.833	(1.002)	137722	1.85449	168.7492
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	201246	3.36819	306.4887(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	74045	1.12490	102.3604(M)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	116060	2.04135	185.7528
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	85913	1.57328	143.1607(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	23606	0.45840	41.7126
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	97571	1.75897	160.0580

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB21022.D

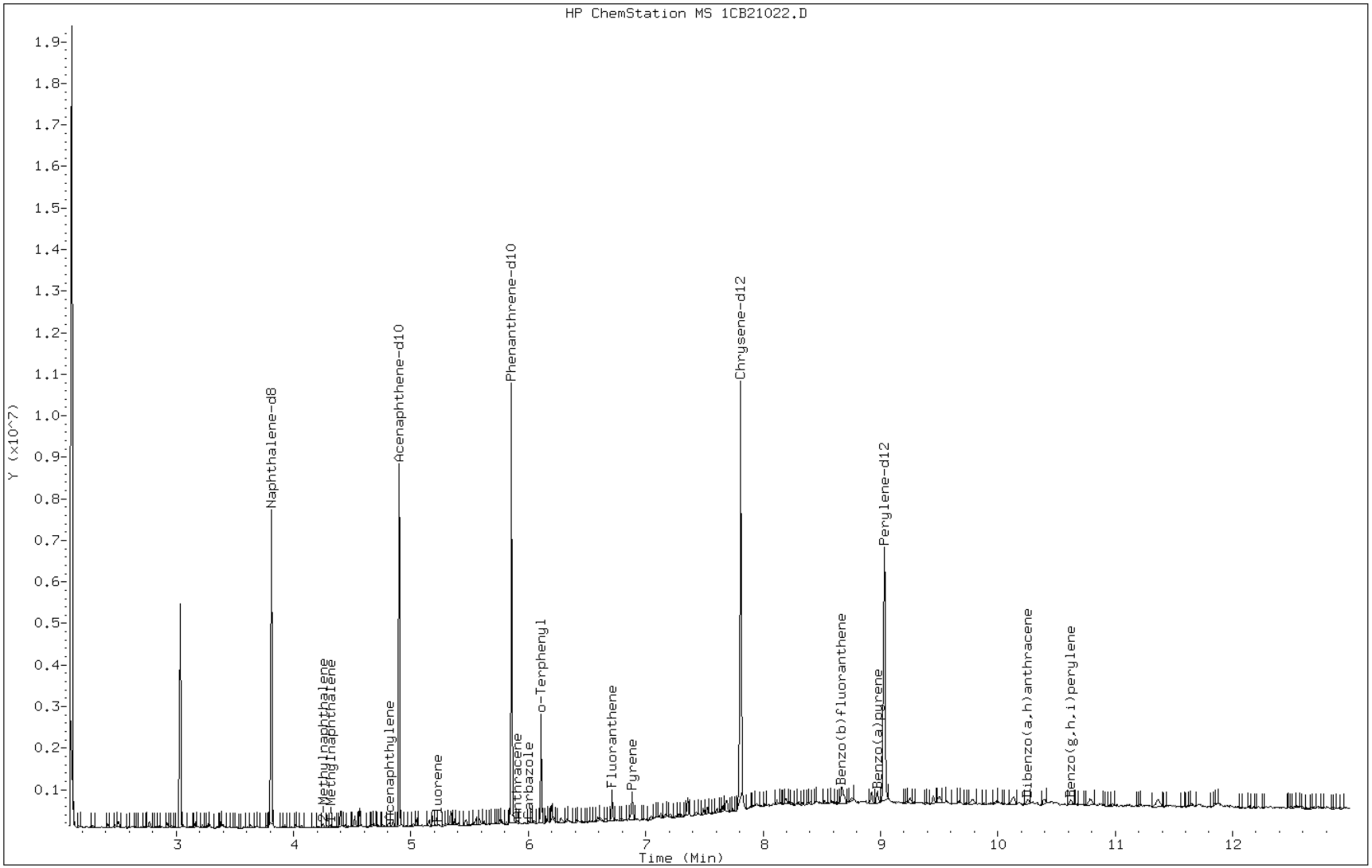
Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a

Operator: SCC



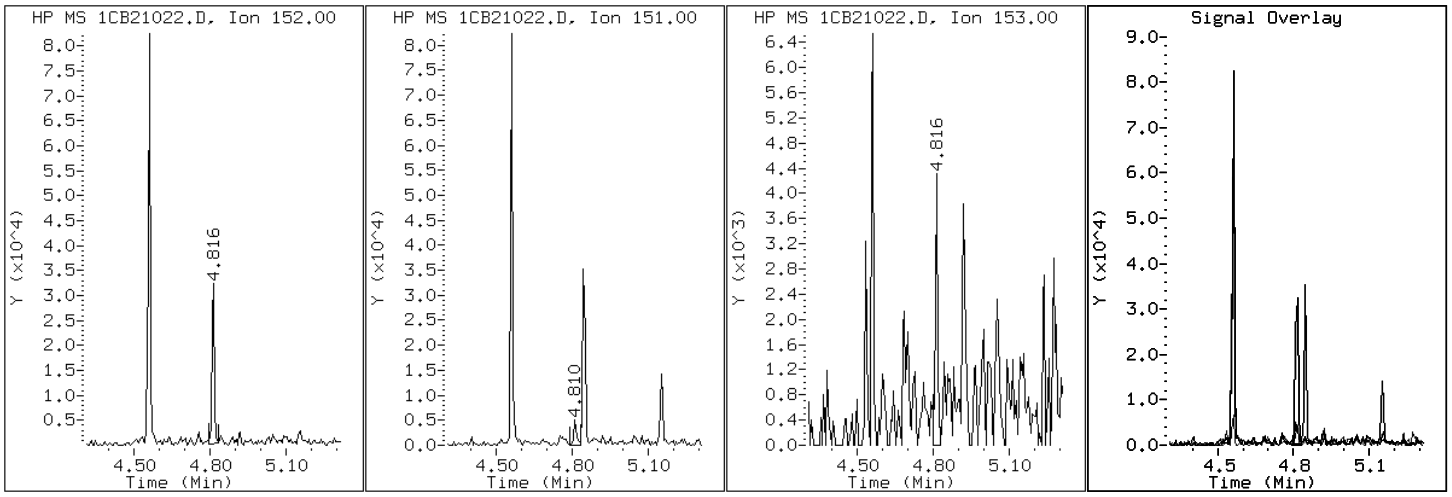
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

5 Acenaphthylene



Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

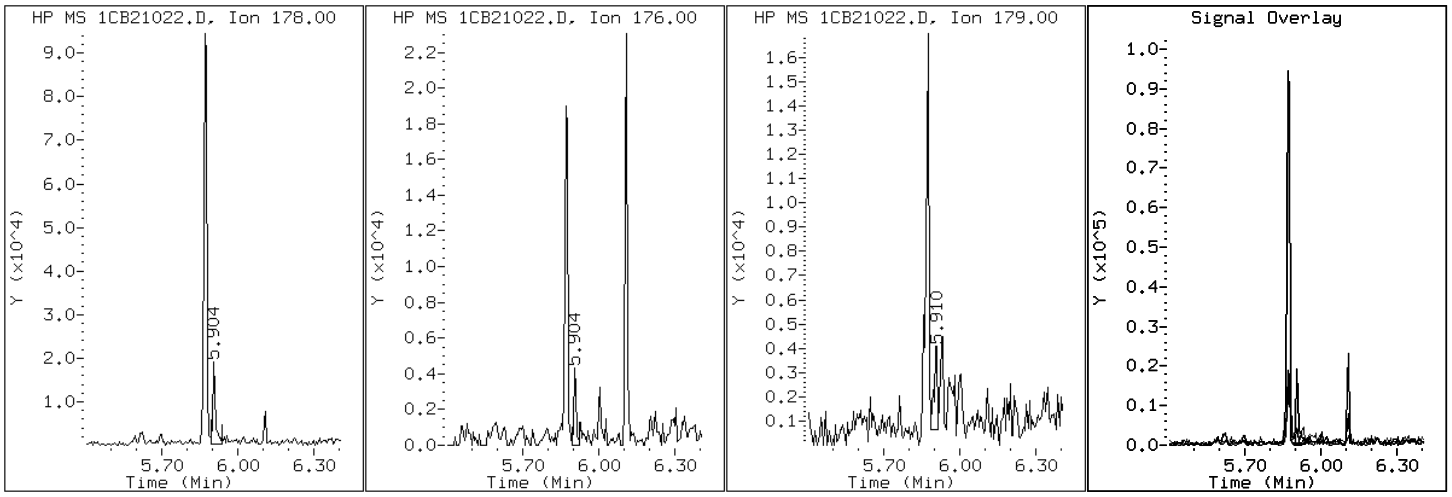
Client ID: CV0971AQ-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a

Operator: SCC

12 Anthracene



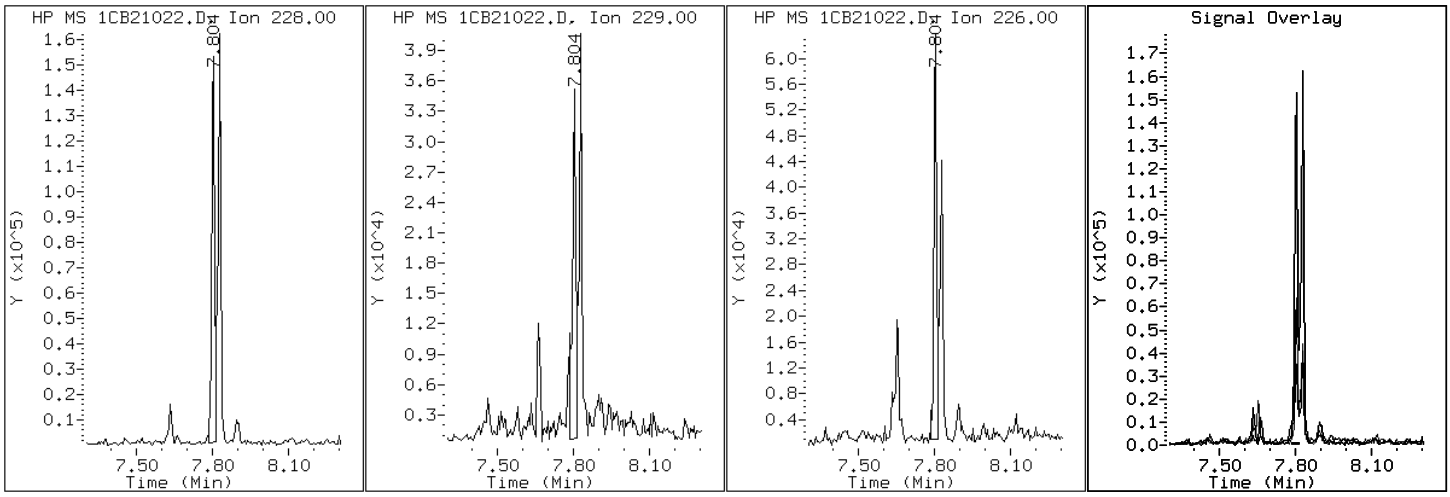
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

17 Benzo(a)anthracene



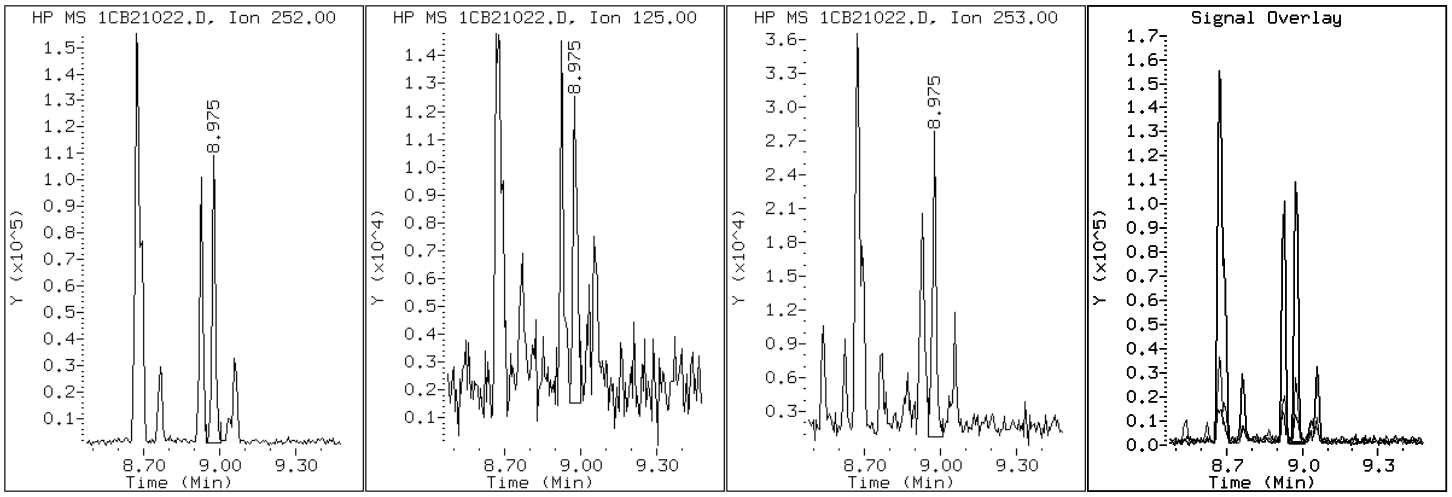
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

22 Benzo(a)pyrene



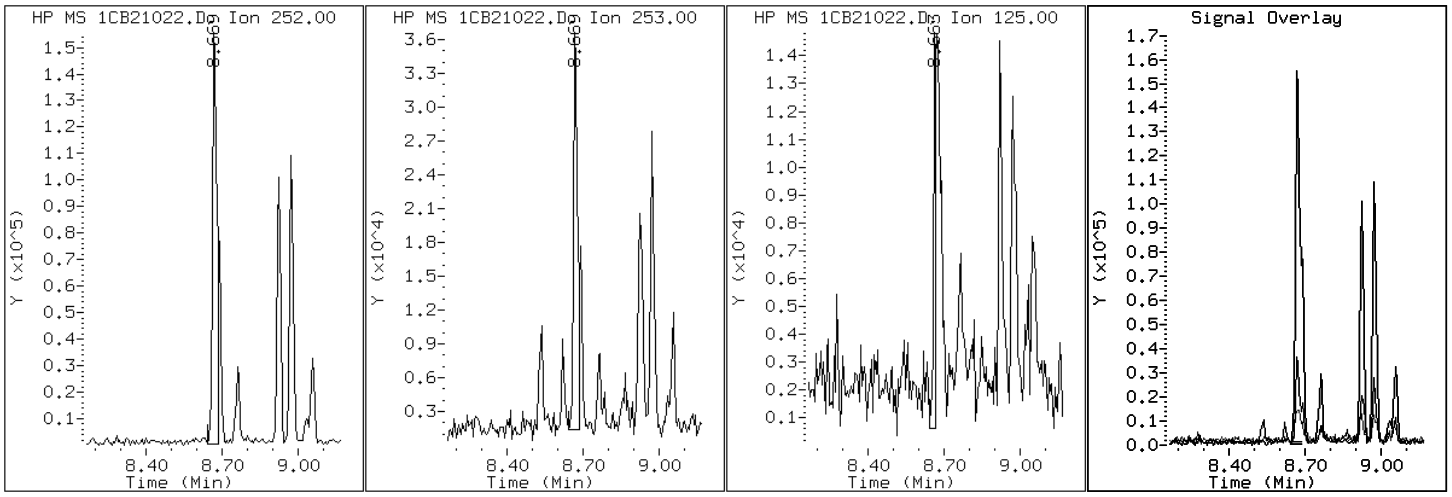
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

20 Benzo(b)fluoranthene



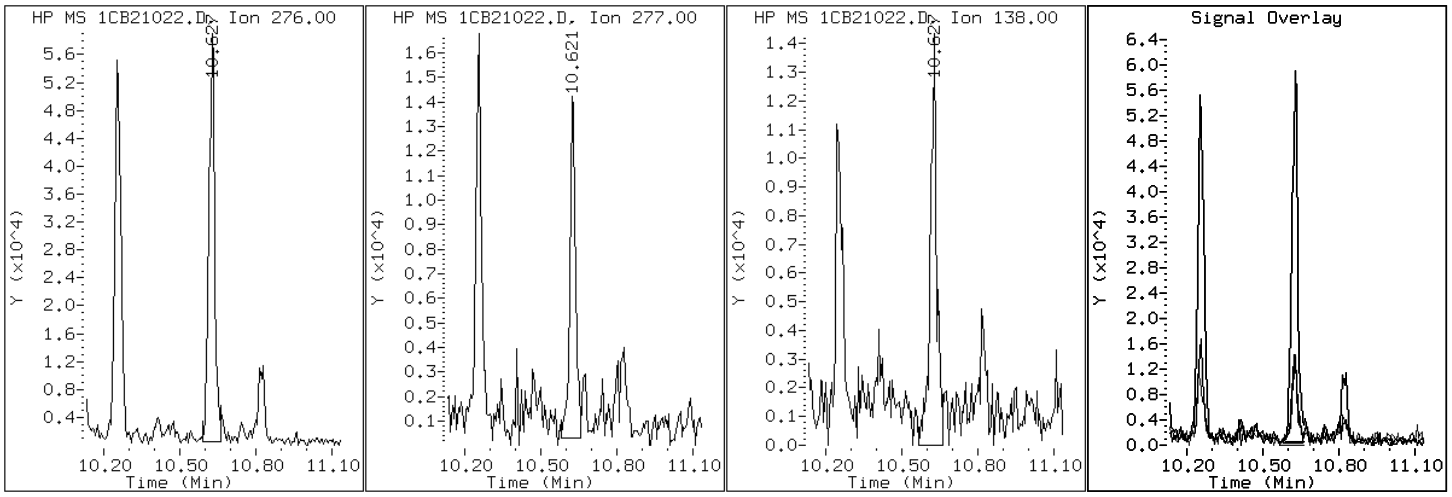
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

26 Benzo(g,h,i)perylene



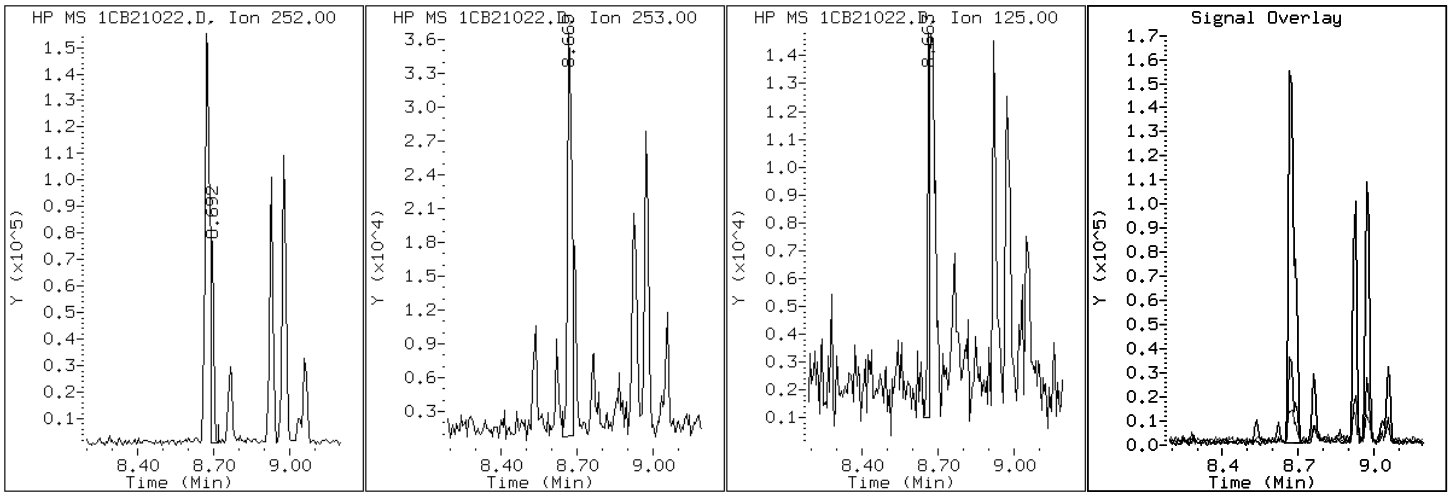
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

21 Benzo(k)fluoranthene



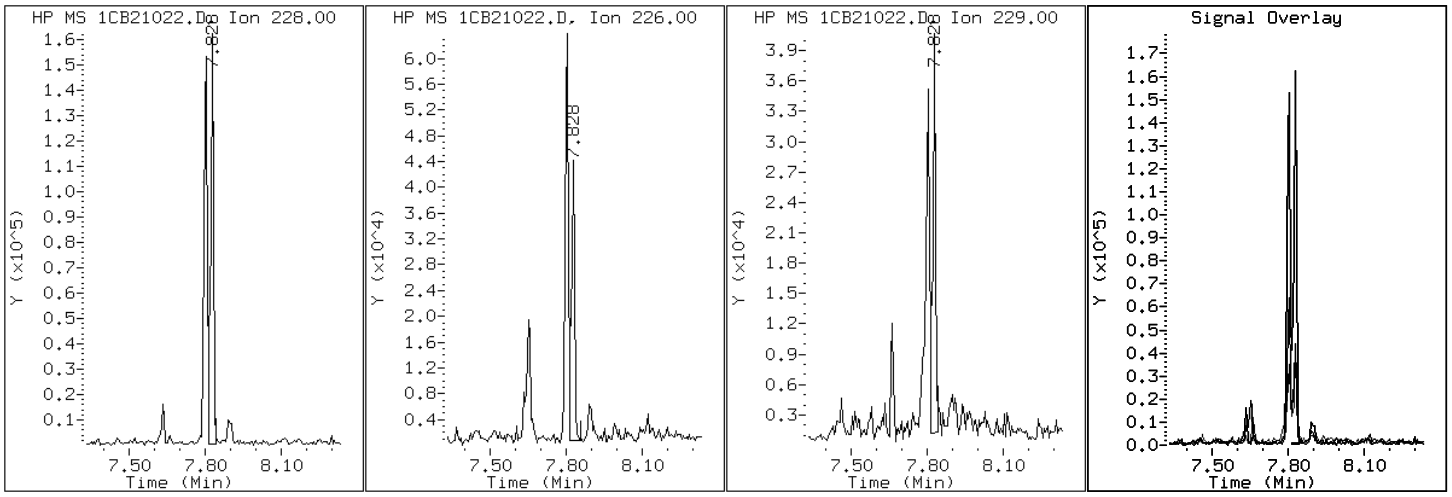
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

19 Chrysene



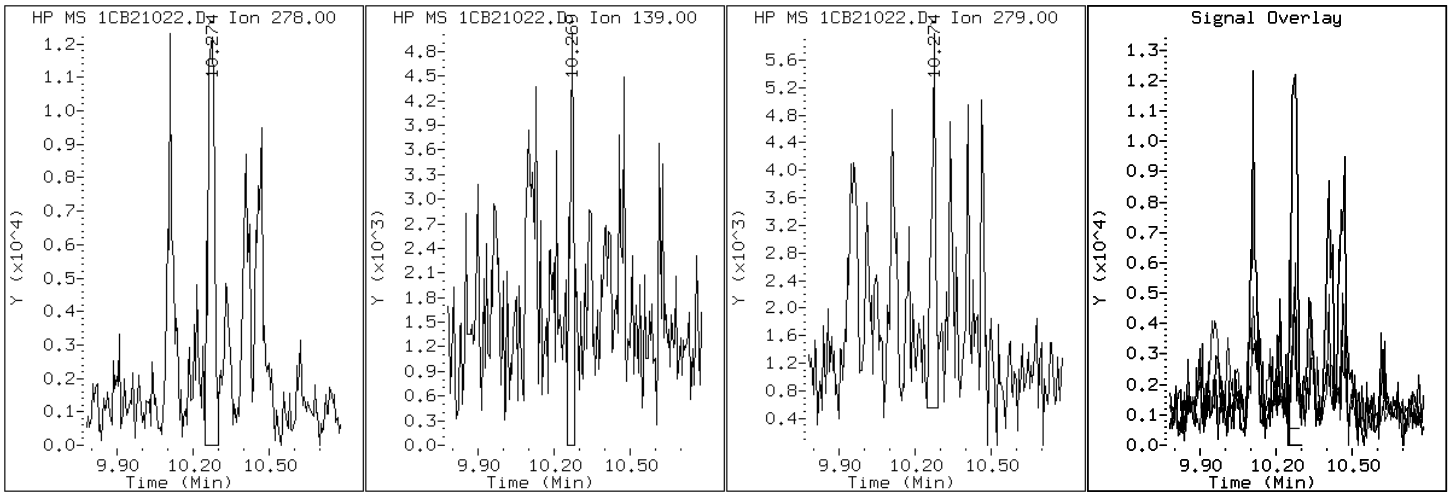
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

25 Dibenzo(a,h)anthracene



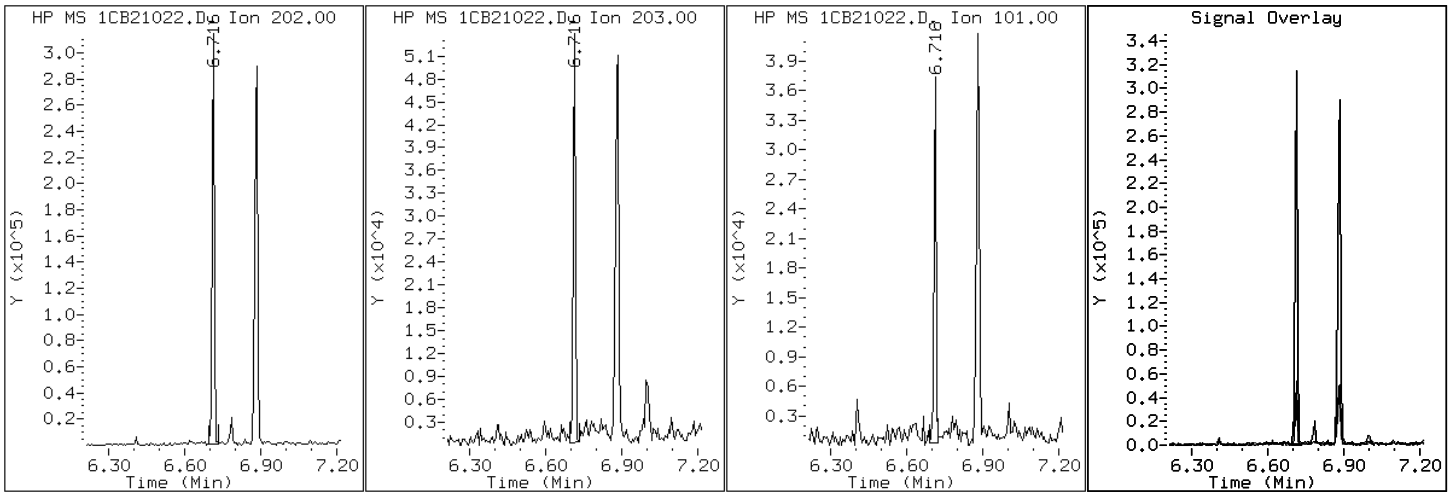
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

15 Fluoranthene



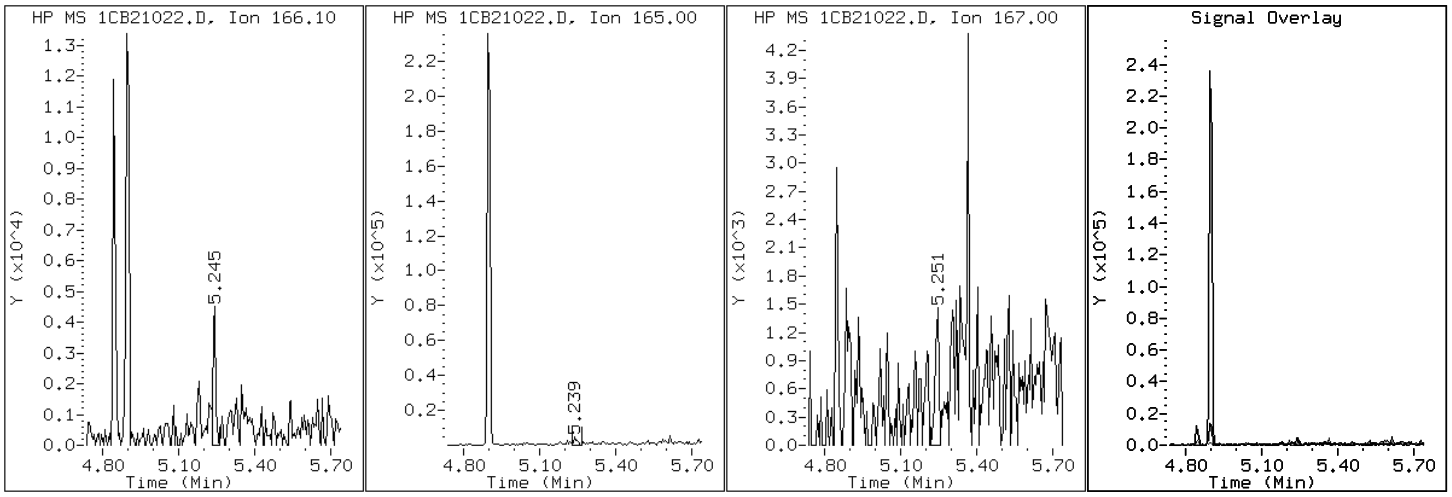
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

9 Fluorene



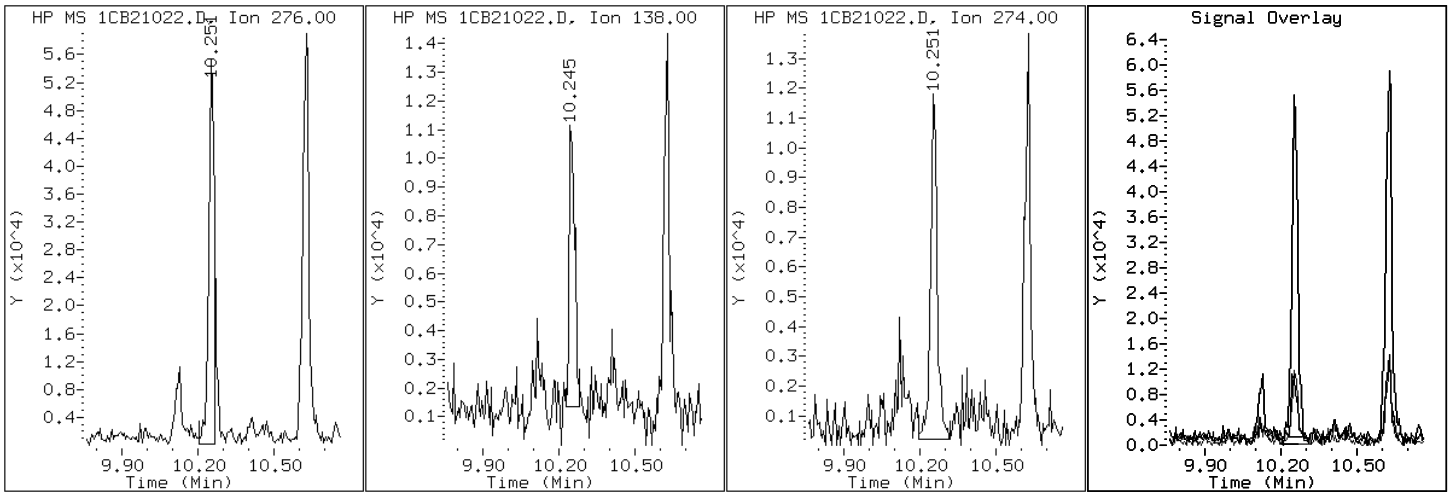
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

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



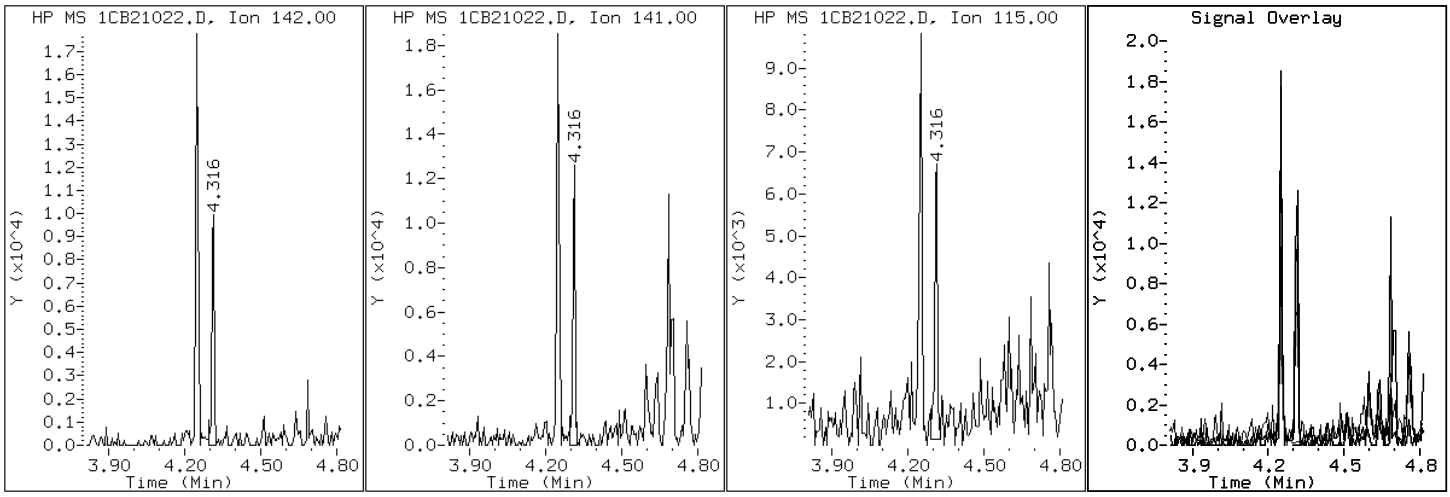
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

4 1-Methylnaphthalene



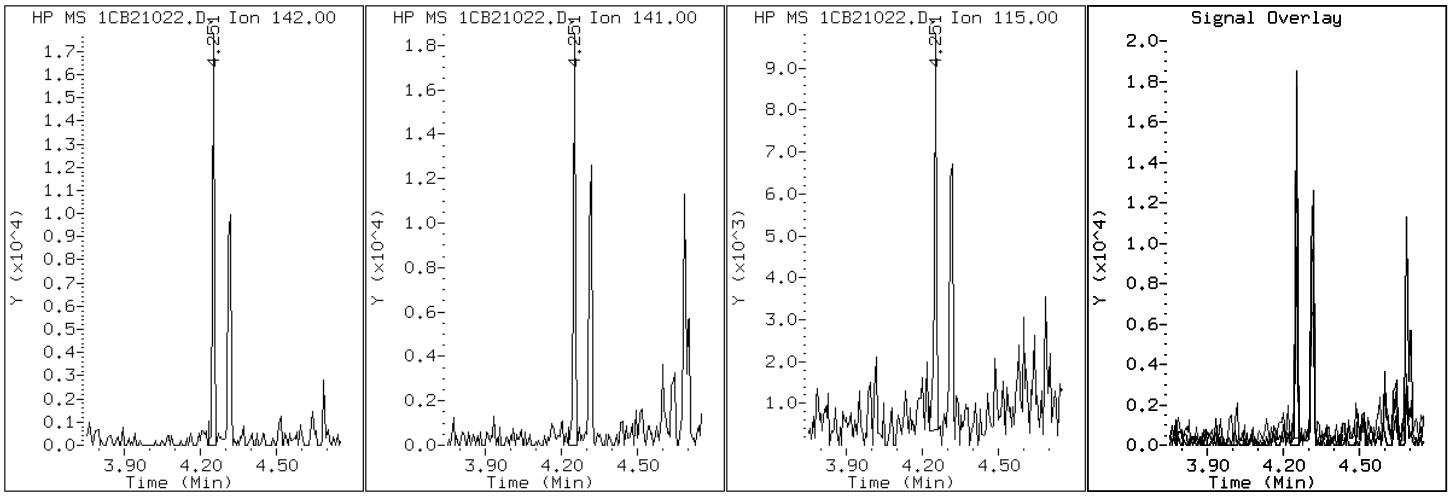
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

3 2-Methylnaphthalene



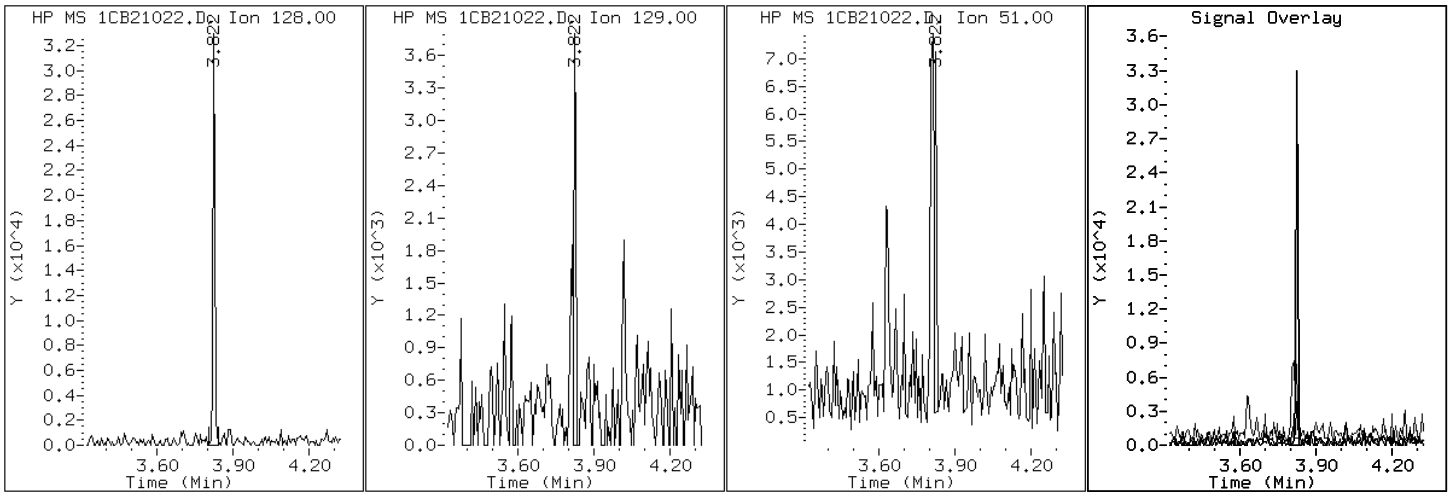
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

2 Naphthalene



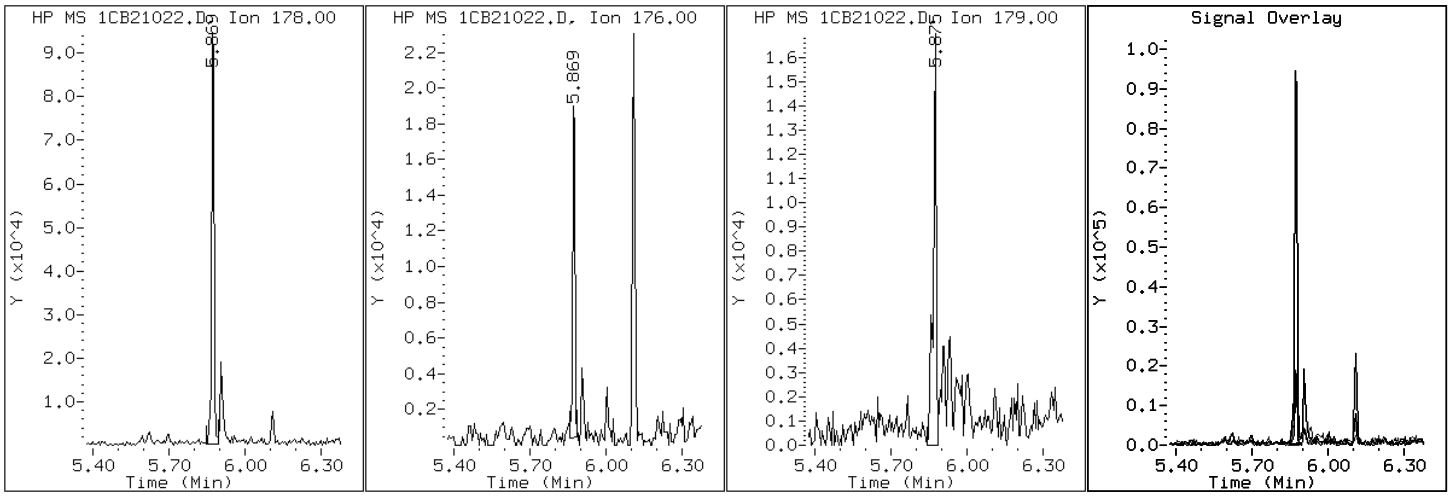
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

11 Phenanthrene



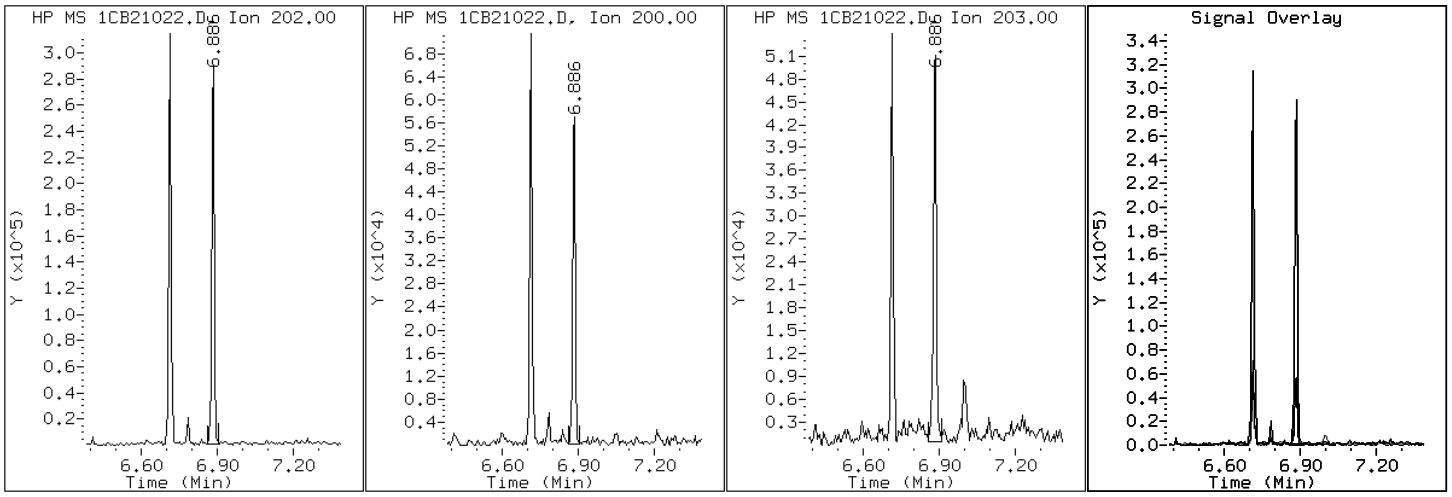
Data File: 1CB21022.D

Date: 21-FEB-2013 17:36

Client ID: CV0971AQ-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-38-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21022.D
Inj. Date and Time: 21-FEB-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0971AQ-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/22/2013

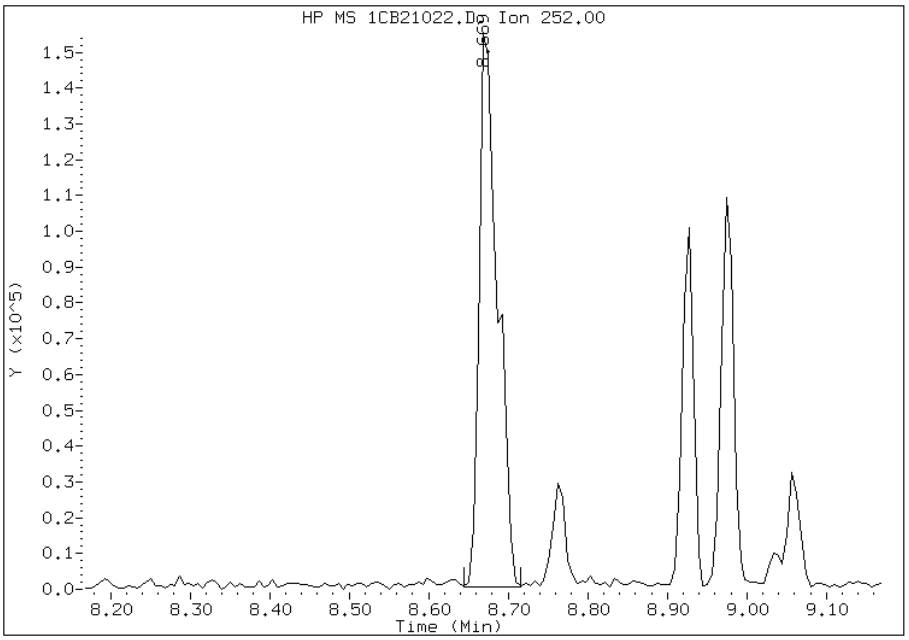
Processing Integration Results

RT: 8.67

Response: 249502

Amount: 4

Conc: 380



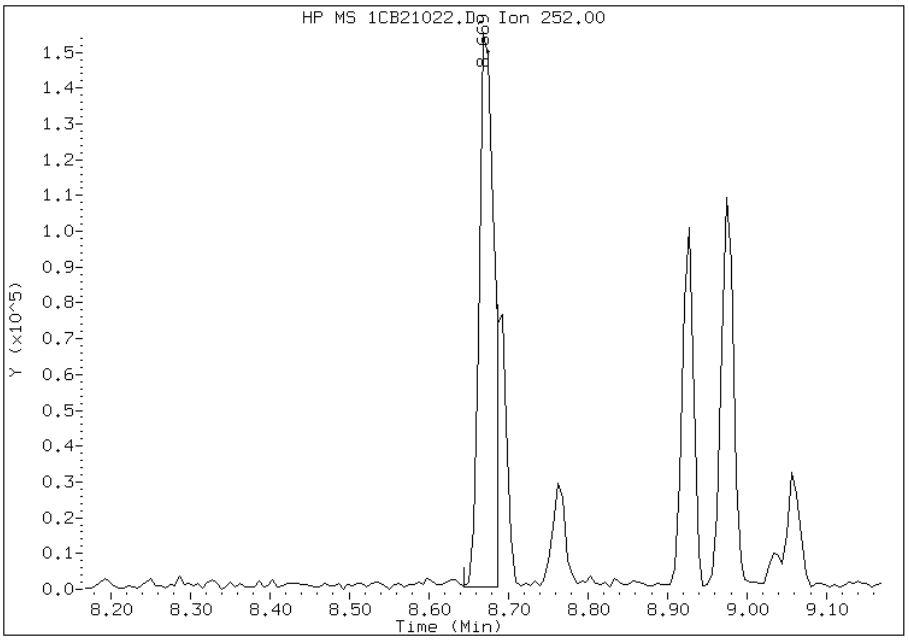
Manual Integration Results

RT: 8.67

Response: 201246

Amount: 3

Conc: 306



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 09:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB21022.D
Inj. Date and Time: 21-FEB-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0971AQ-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/22/2013

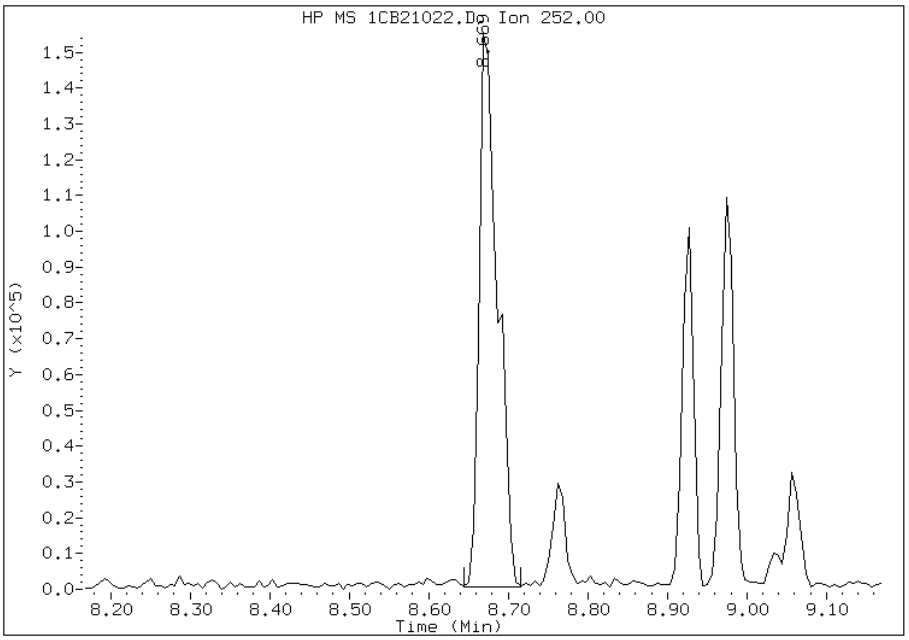
Processing Integration Results

RT: 8.67

Response: 248715

Amount: 4

Conc: 344



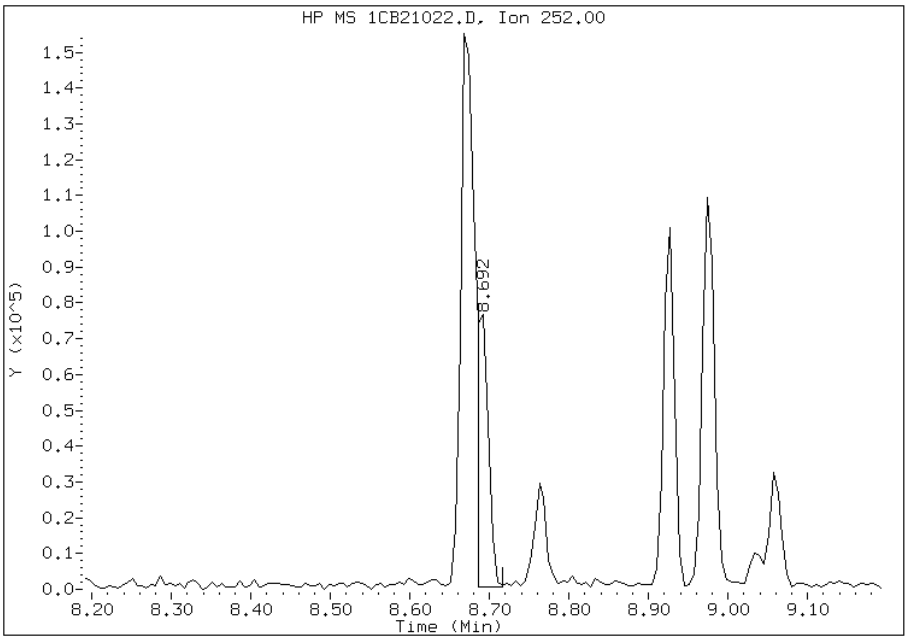
Manual Integration Results

RT: 8.69

Response: 74045

Amount: 1

Conc: 102



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 09:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21022.D
Inj. Date and Time: 21-FEB-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0971AQ-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

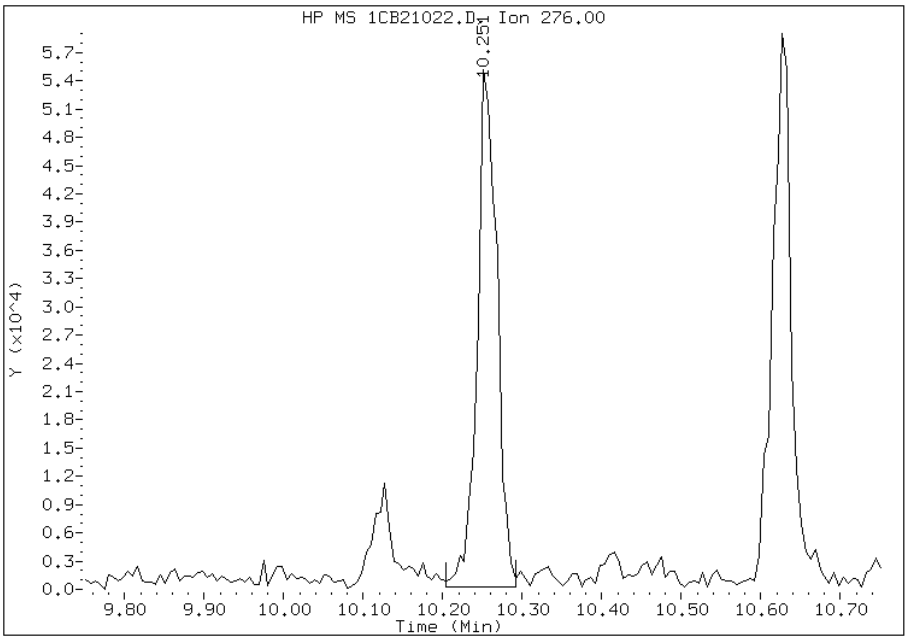
Processing Integration Results

RT: 10.25

Response: 94207

Amount: 2

Conc: 157



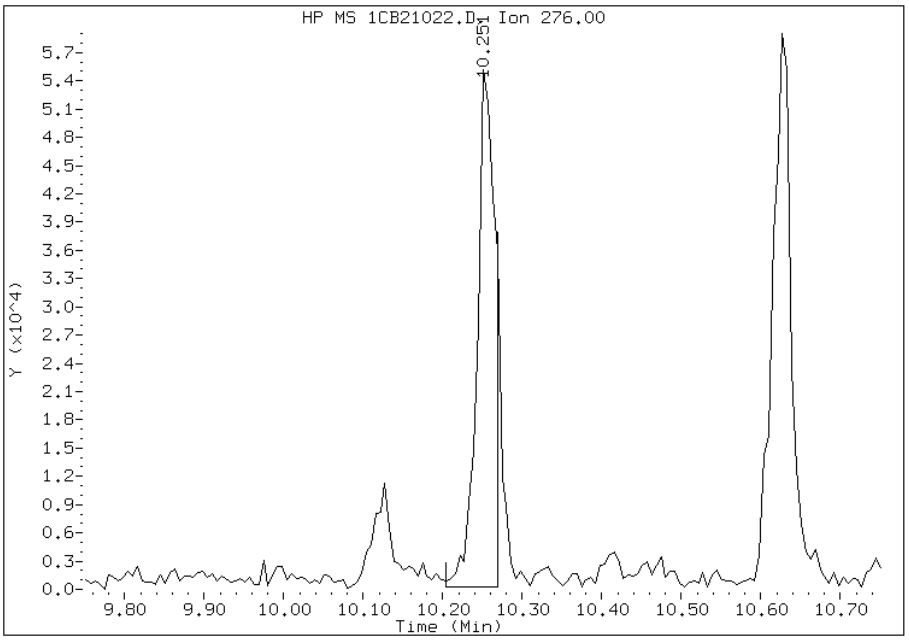
Manual Integration Results

RT: 10.25

Response: 85913

Amount: 2

Conc: 143



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 09:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971AR-GS | Lab Sample ID: 680-87496-39

Matrix: Solid | Lab File ID: 1CB21023.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 14:20

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.05(g) | Date Analyzed: 02/21/2013 17:54

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.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	52	J	110	21
208-96-8	Acenaphthylene	29	J	42	5.3
120-12-7	Anthracene	180		8.9	4.4
56-55-3	Benzo[a]anthracene	530		8.5	4.1
50-32-8	Benzo[a]pyrene	440		11	5.5
205-99-2	Benzo[b]fluoranthene	680		13	6.5
191-24-2	Benzo[g,h,i]perylene	280		21	4.7
207-08-9	Benzo[k]fluoranthene	260		8.5	3.8
218-01-9	Chrysene	500		9.5	4.8
53-70-3	Dibenz(a,h)anthracene	78		21	4.3
206-44-0	Fluoranthene	1200		21	4.2
86-73-7	Fluorene	59		21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	210		21	7.5
90-12-0	1-Methylnaphthalene	210		42	4.7
91-57-6	2-Methylnaphthalene	360		42	7.5
91-20-3	Naphthalene	250		42	4.7
85-01-8	Phenanthrene	810		8.5	4.1
129-00-0	Pyrene	1000		21	3.9

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\1C022113.b\1CB21023.D
Lab Smp Id: 680-87496-A-39-A Client Smp ID: CV0971AR-GS
Inj Date : 21-FEB-2013 17:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-39-a
Misc Info : 680-87496-A-39-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	15.050	Weight Extracted
M	5.862	% 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	3.810	3.810	(1.000)	1545764	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1218635	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2306053	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	316788	9.37549	661.7484
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	2478992	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2258254	40.0000	
2 Naphthalene	128	3.822	3.821	(1.003)	147513	3.60133	254.1917
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	133968	5.03003	355.0333
4 1-Methylnaphthalene	142	4.316	4.315	(1.133)	73648	3.04042	214.6016
5 Acenaphthylene	152	4.816	4.815	(0.983)	20218	0.41702	29.4342(M)
7 Acenaphthene	154	4.922	4.921	(1.005)	22343	0.73479	51.8632(M)
9 Fluorene	166	5.239	5.239	(1.070)	32396	0.82997	58.5816
11 Phenanthrene	178	5.874	5.874	(1.003)	790175	11.4794	810.2487
12 Anthracene	178	5.904	5.904	(1.008)	160906	2.59453	183.1292

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	81997	1.52214	107.4368
15 Fluoranthene	202	6.716	6.715	(1.147)	1141861	16.9767	1198.2626
16 Pyrene	202	6.886	6.886	(0.882)	939421	14.2343	1004.6993
17 Benzo(a)anthracene	228	7.804	7.803	(0.999)	514002	7.51887	530.7026
19 Chrysene	228	7.827	7.833	(1.002)	504641	7.14648	504.4185
20 Benzo(b)fluoranthene	252	8.674	8.668	(0.960)	532475	9.61753	678.8324(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	221185	3.62635	255.9576(M)
22 Benzo(a)pyrene	252	8.980	8.974	(0.994)	332116	6.30405	444.9577
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	153246	3.02853	213.7619(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	52766	1.10580	78.0504
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.177)	206438	4.01628	283.4800

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB21023.D

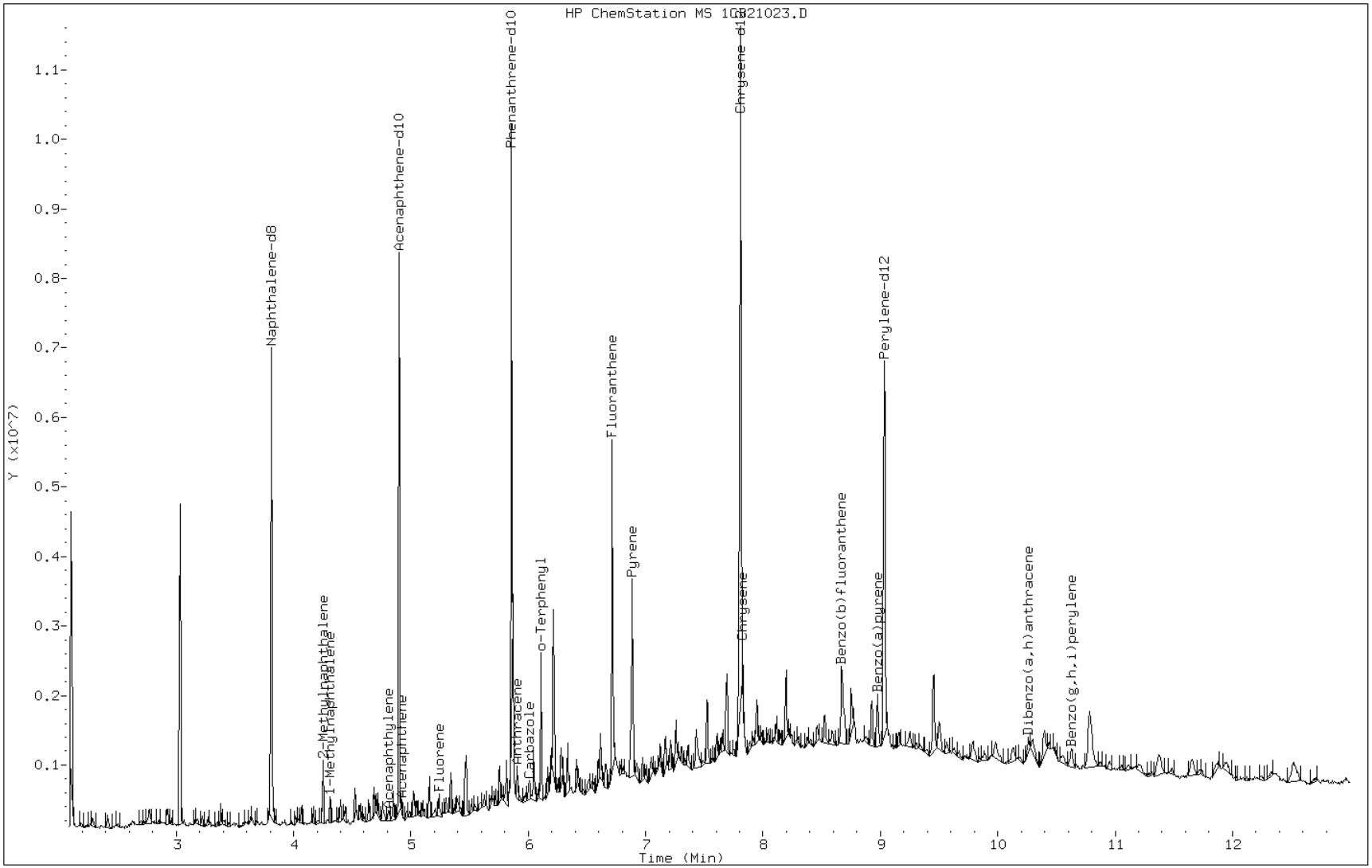
Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a

Operator: SCC



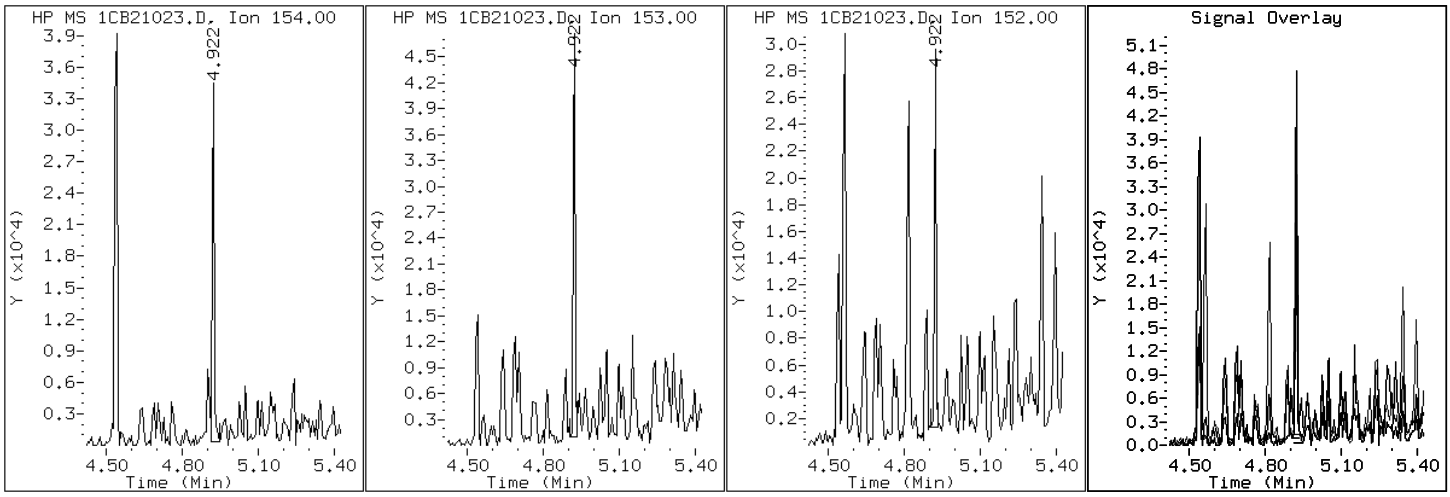
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

7 Acenaphthene



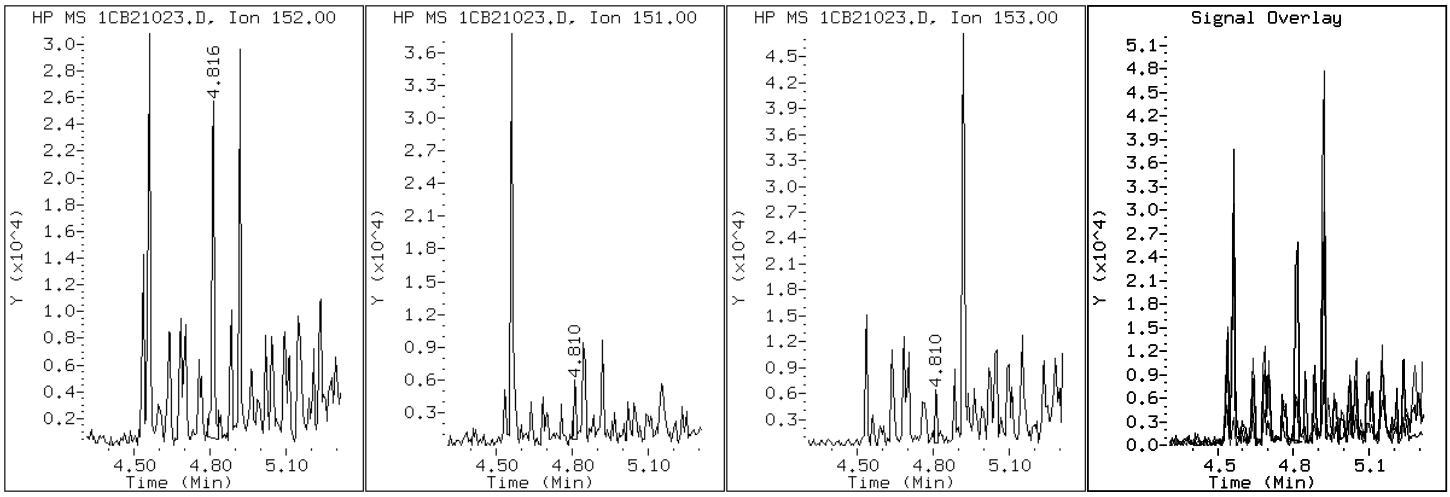
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

5 Acenaphthylene



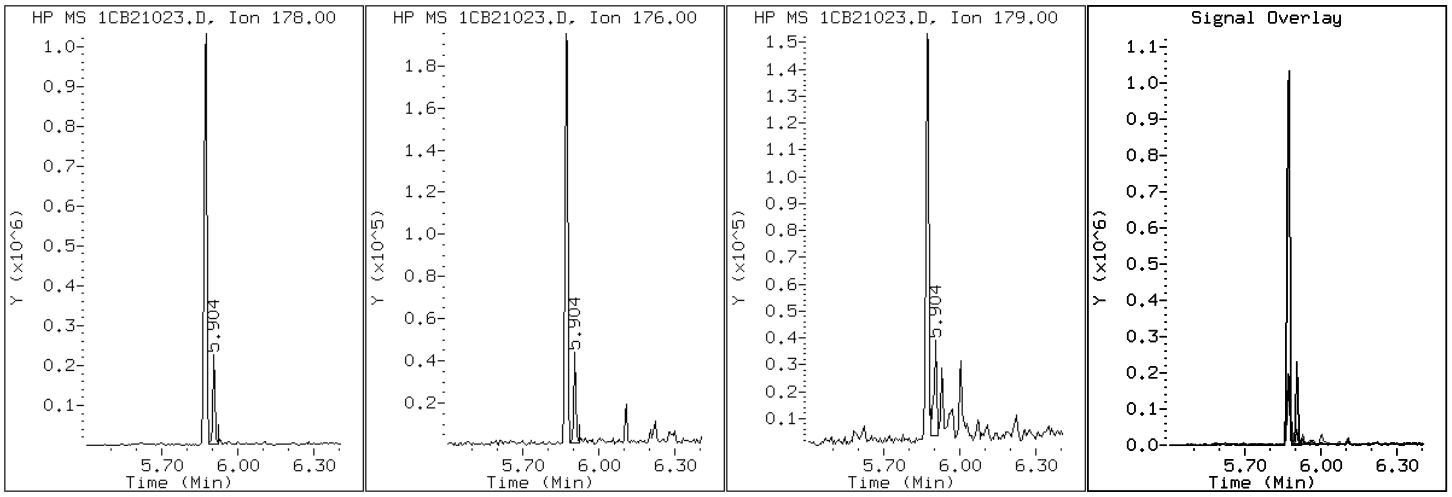
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

12 Anthracene



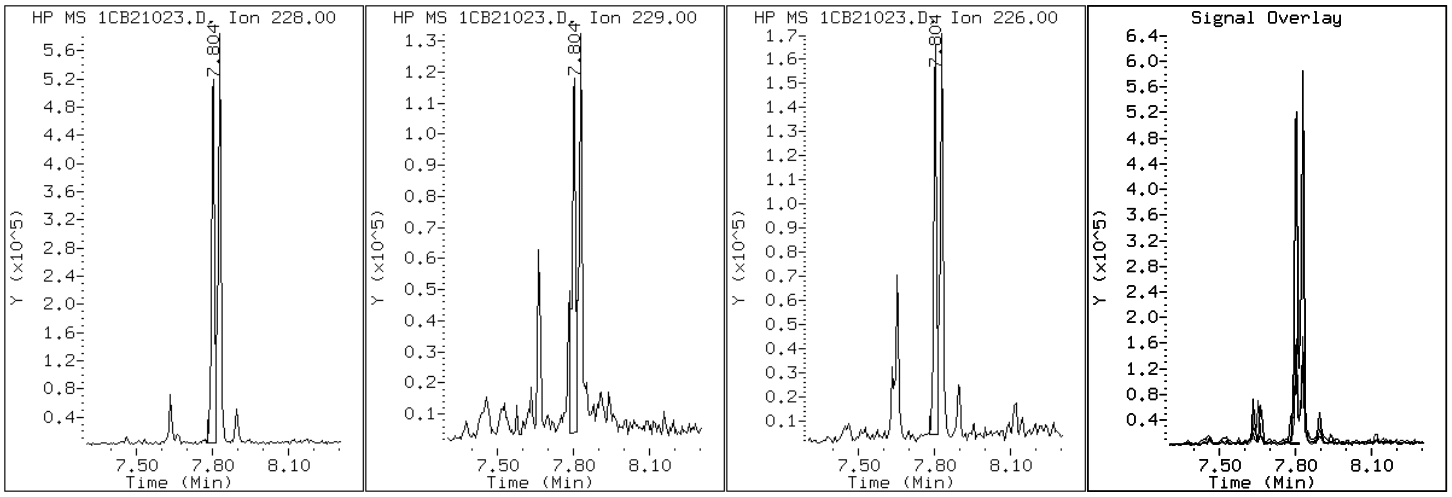
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

17 Benzo(a)anthracene



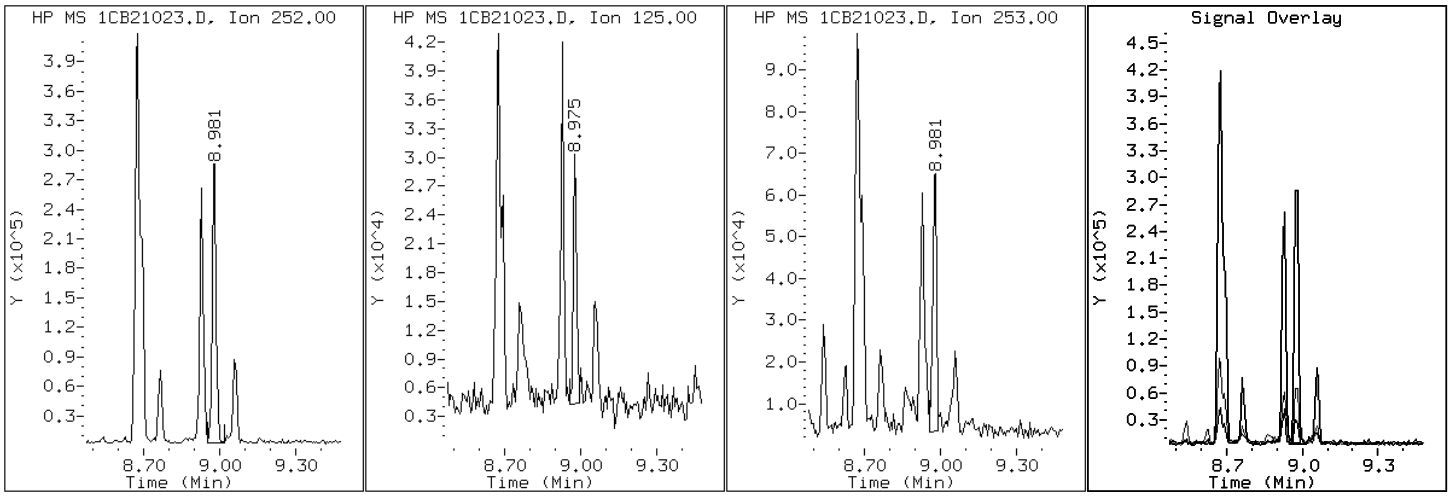
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

22 Benzo(a)pyrene



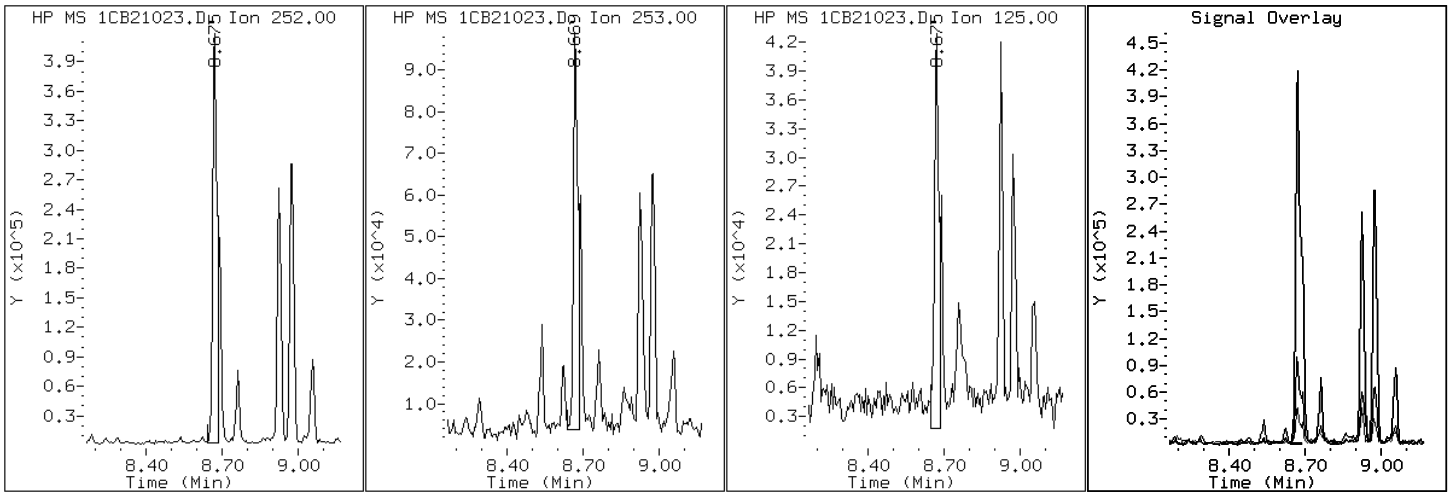
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

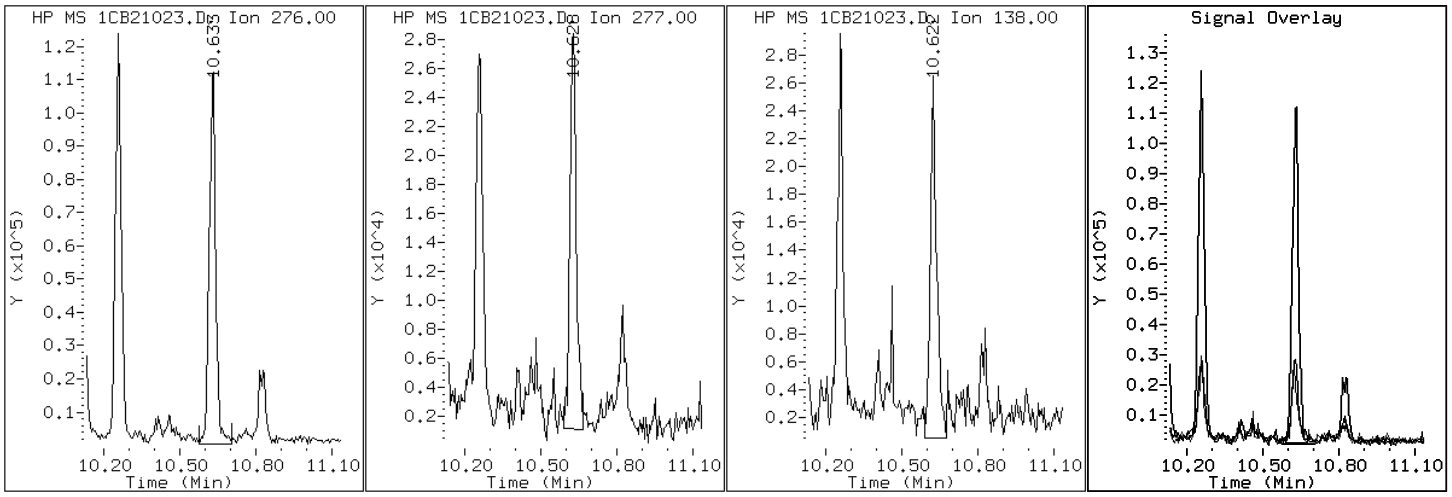
Client ID: CV0971AR-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a

Operator: SCC

26 Benzo(g,h,i)perylene



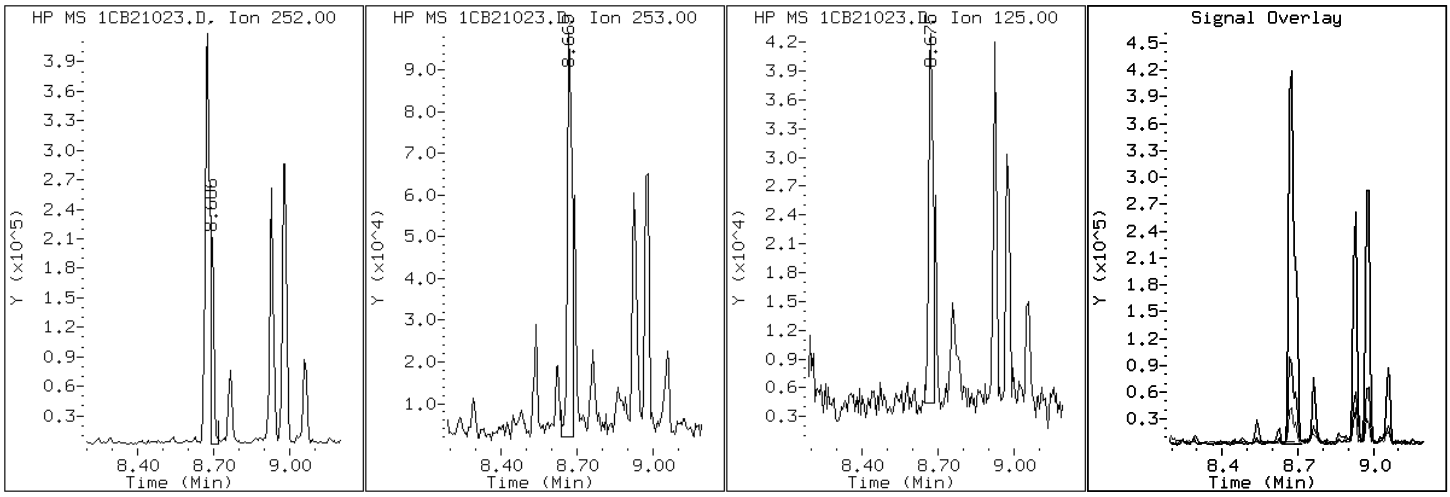
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

21 Benzo(k)fluoranthene



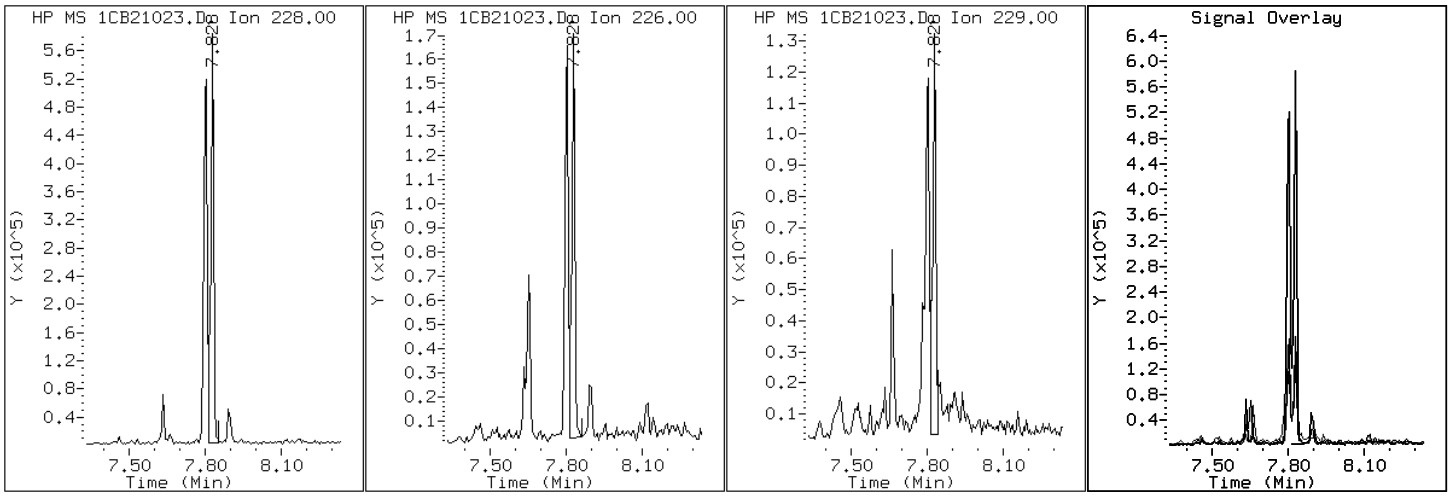
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

19 Chrysene



Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

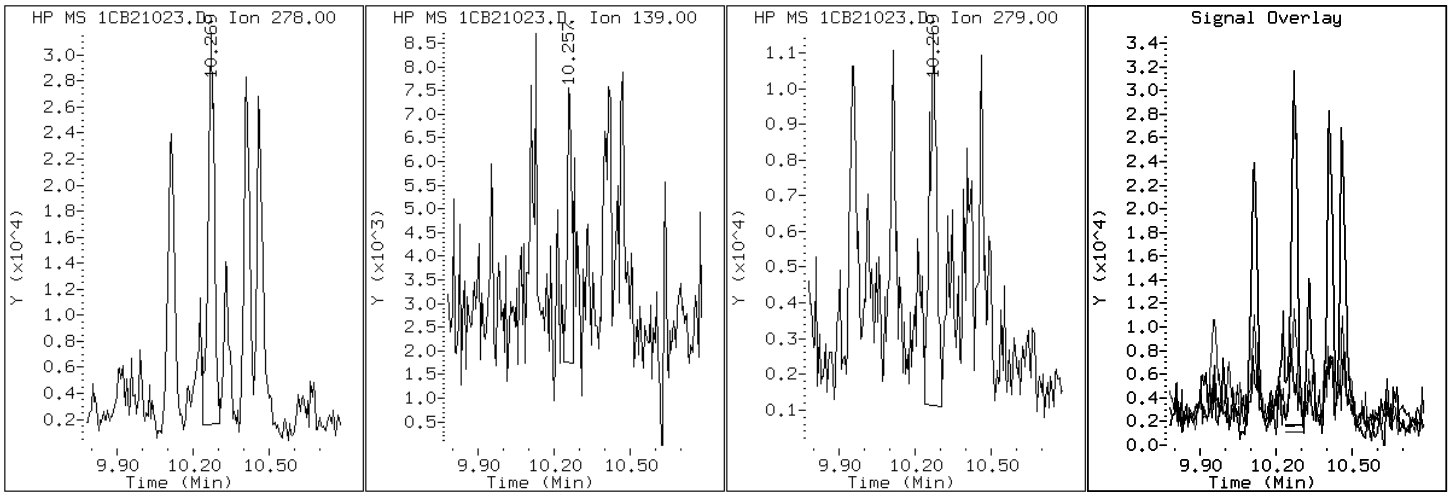
Client ID: CV0971AR-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

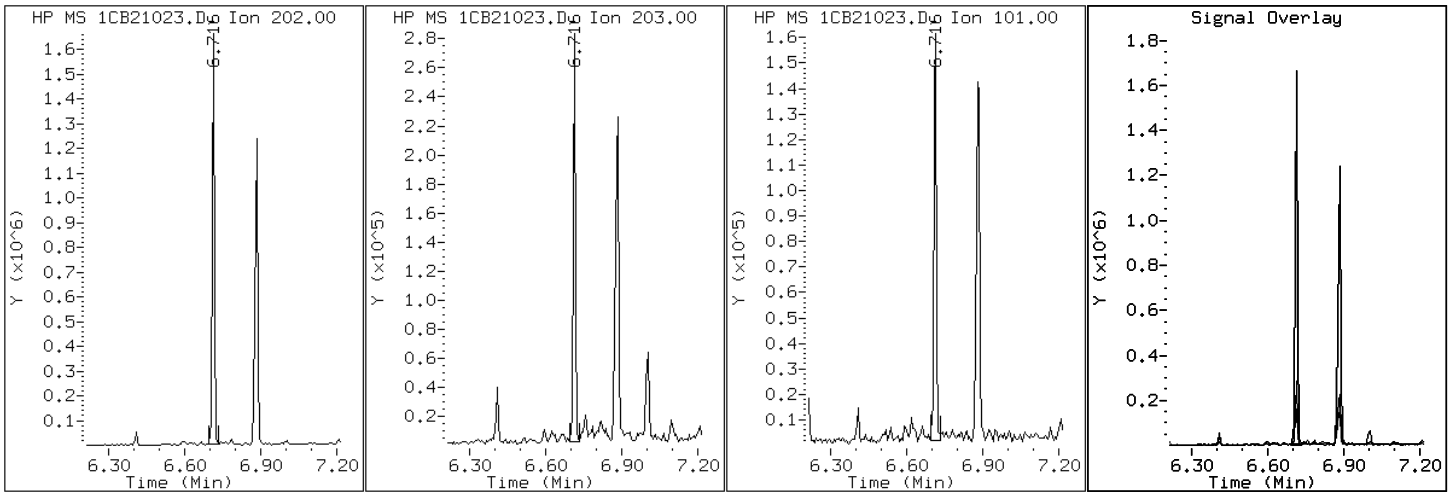
Client ID: CV0971AR-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a

Operator: SCC

15 Fluoranthene



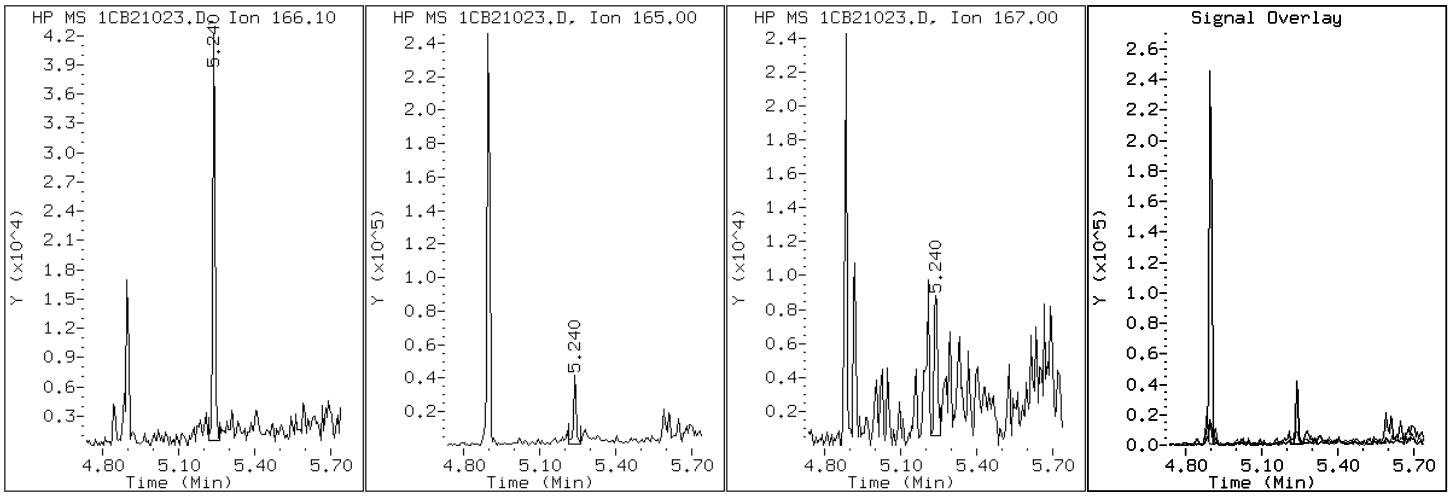
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

9 Fluorene



Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

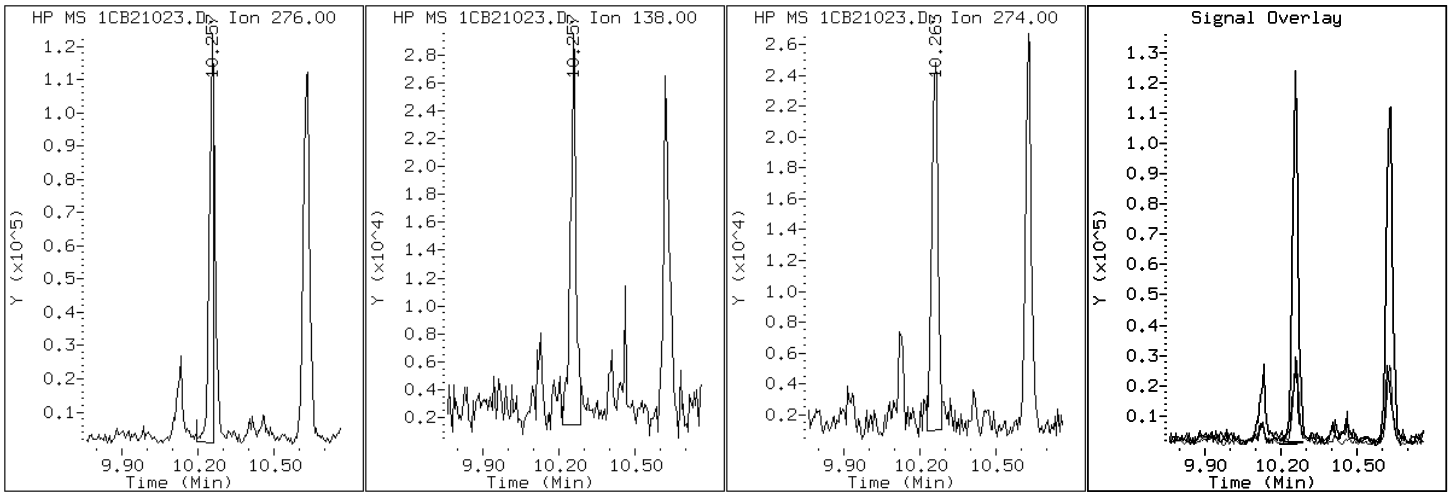
Client ID: CV0971AR-GS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a

Operator: SCC

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



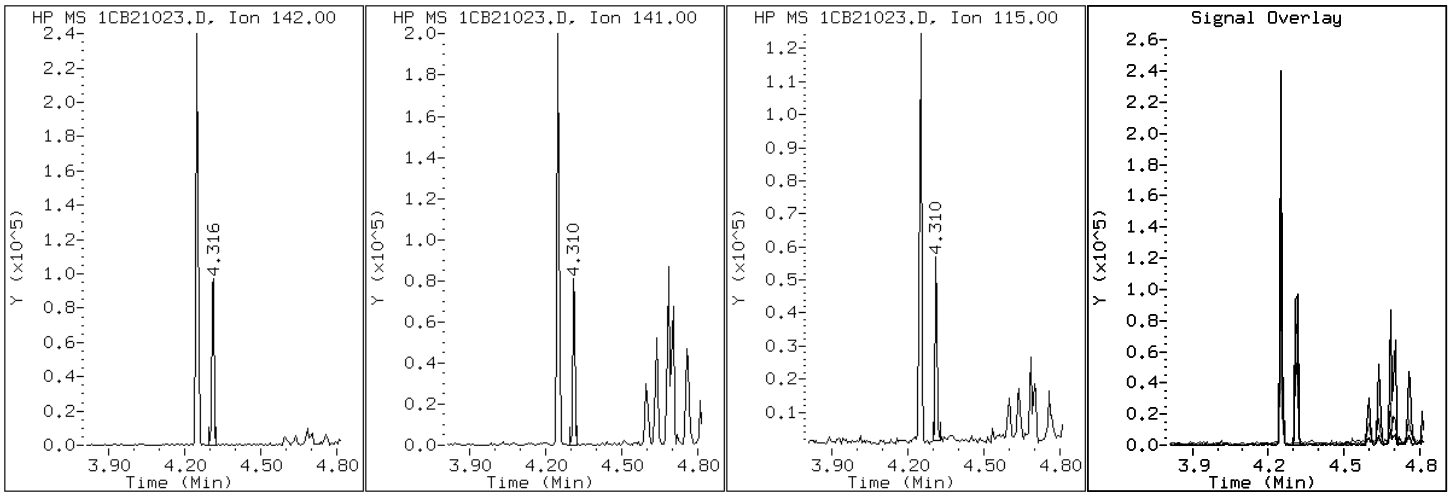
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

4 1-Methylnaphthalene



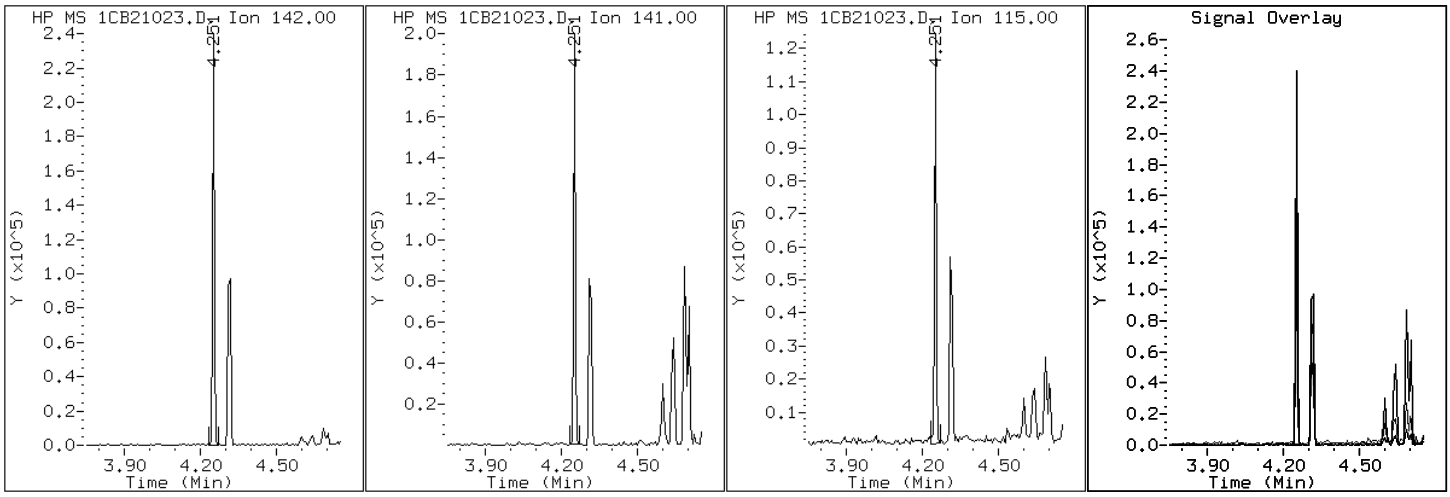
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

3 2-Methylnaphthalene



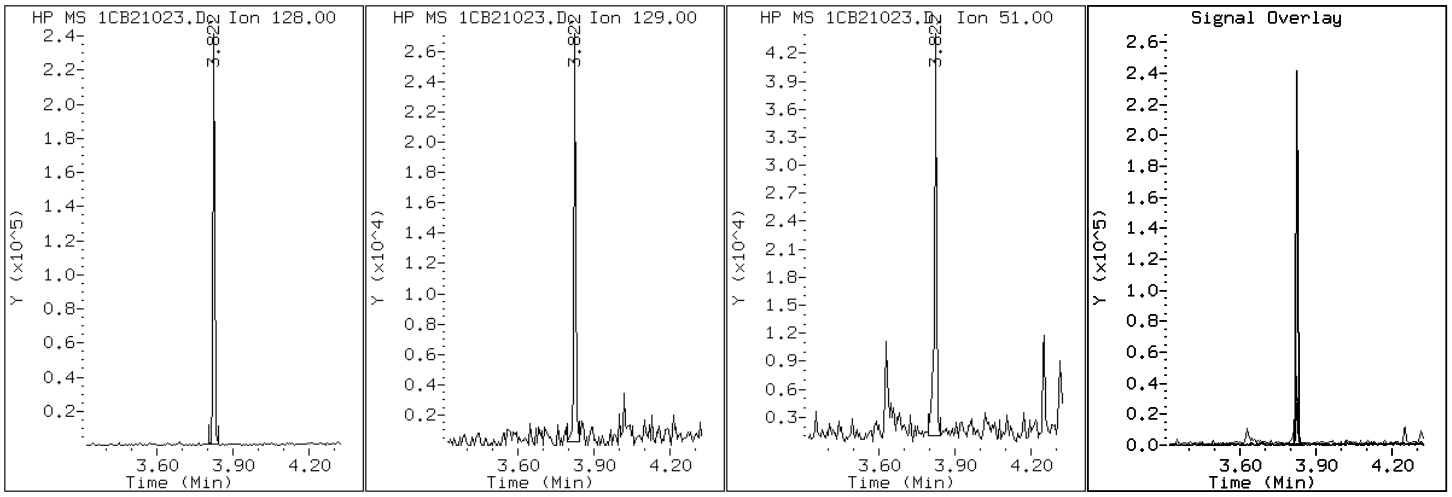
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

2 Naphthalene



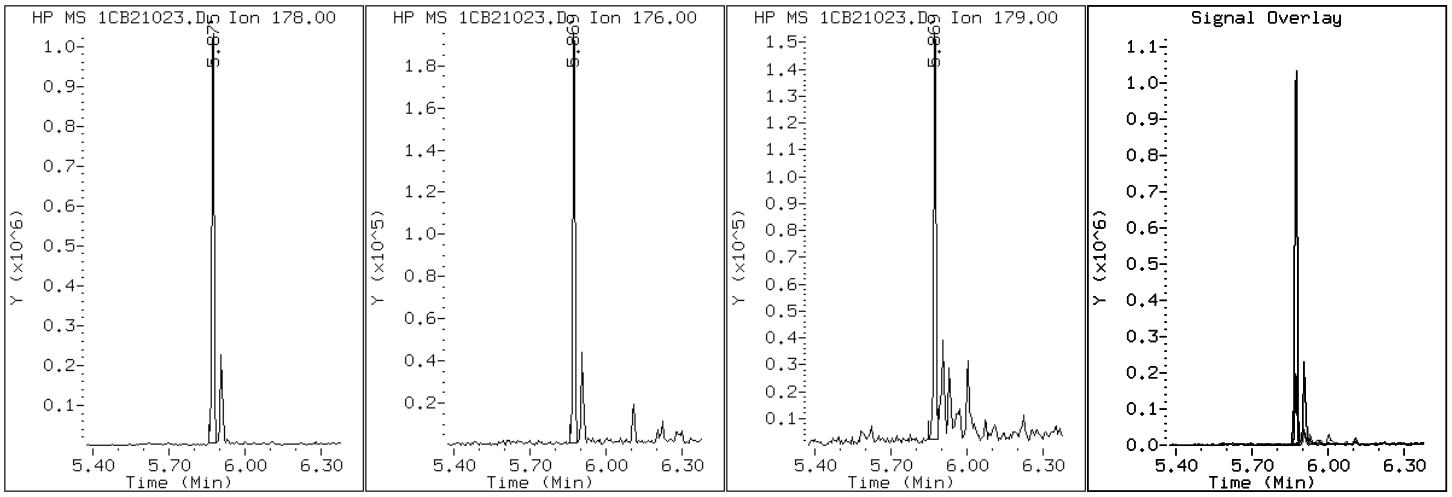
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

11 Phenanthrene



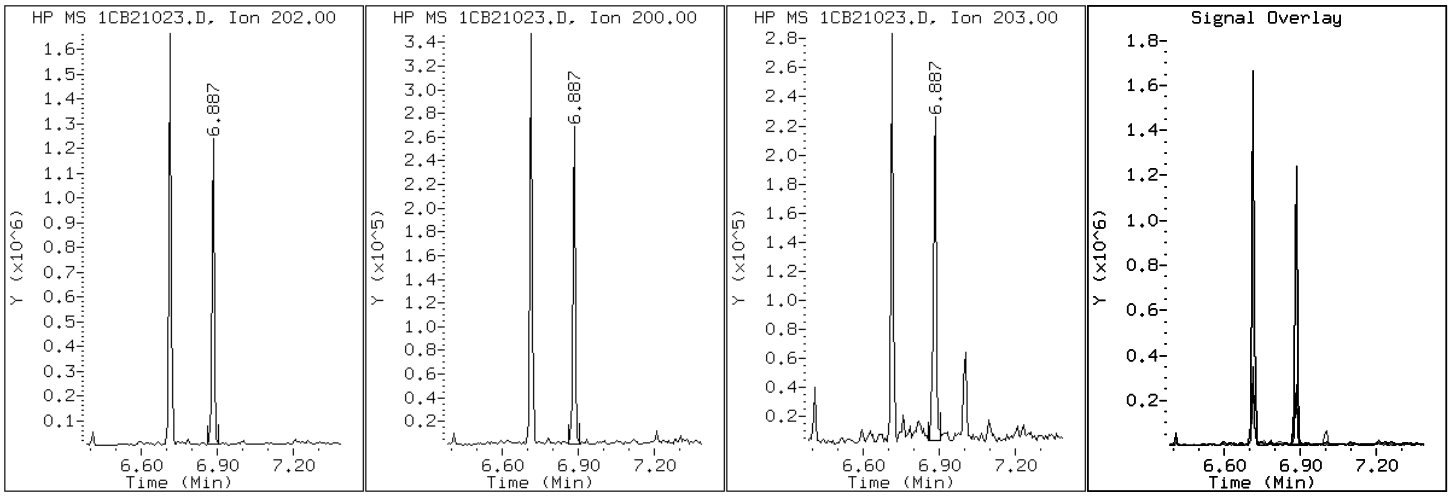
Data File: 1CB21023.D

Date: 21-FEB-2013 17:54

Client ID: CV0971AR-GS Instrument: BSMC5973.i

Sample Info: 680-87496-a-39-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21023.D
Inj. Date and Time: 21-FEB-2013 17:54
Instrument ID: BSMC5973.i
Client ID: CV0971AR-GS
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 02/22/2013

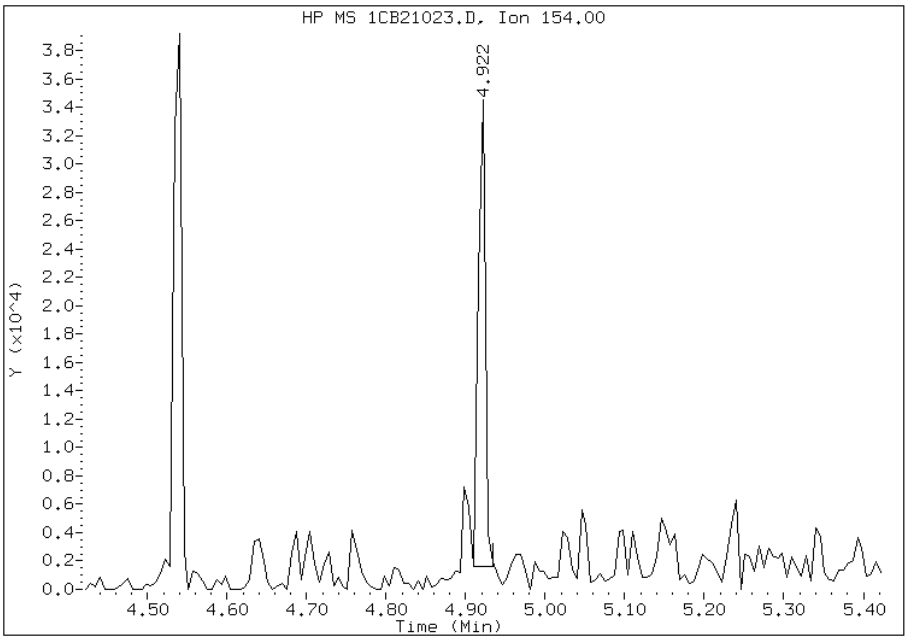
Processing Integration Results

RT: 4.92

Response: 19782

Amount: 1

Conc: 46



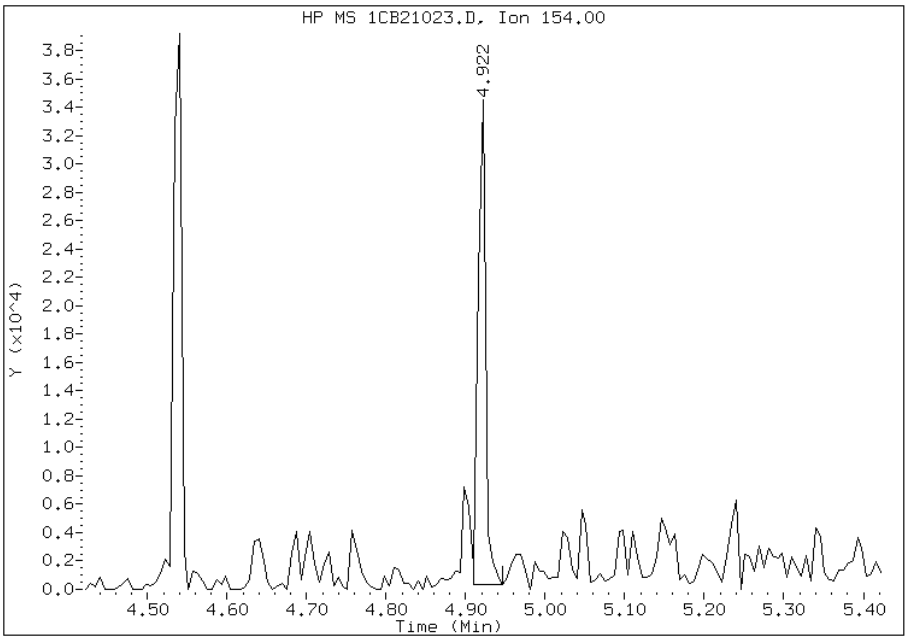
Manual Integration Results

RT: 4.92

Response: 22343

Amount: 1

Conc: 52



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21023.D
Inj. Date and Time: 21-FEB-2013 17:54
Instrument ID: BSMC5973.i
Client ID: CV0971AR-GS
Compound: 5 Acenaphthylene
CAS #: 208-96-8
Report Date: 02/22/2013

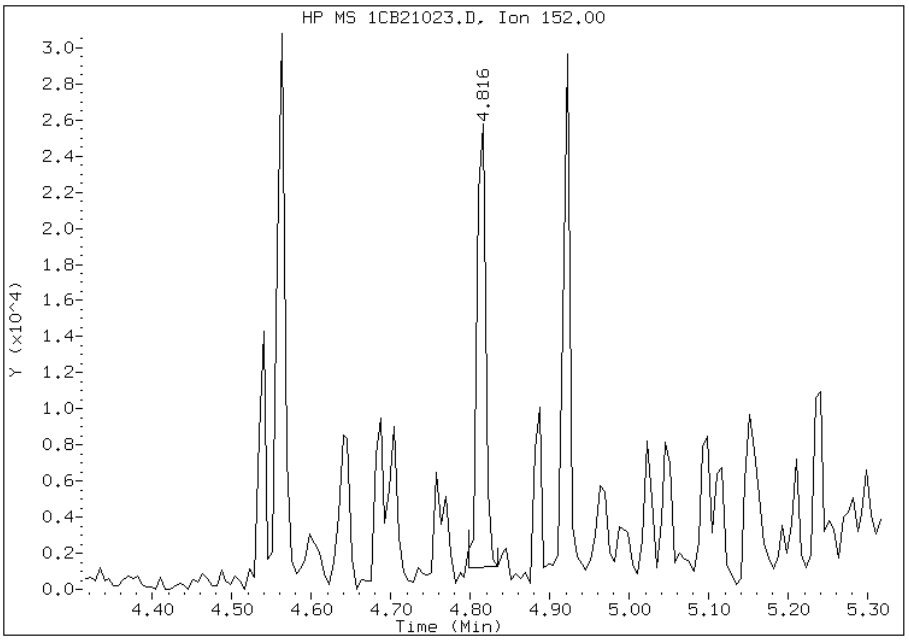
Processing Integration Results

RT: 4.82

Response: 18530

Amount: 0

Conc: 27



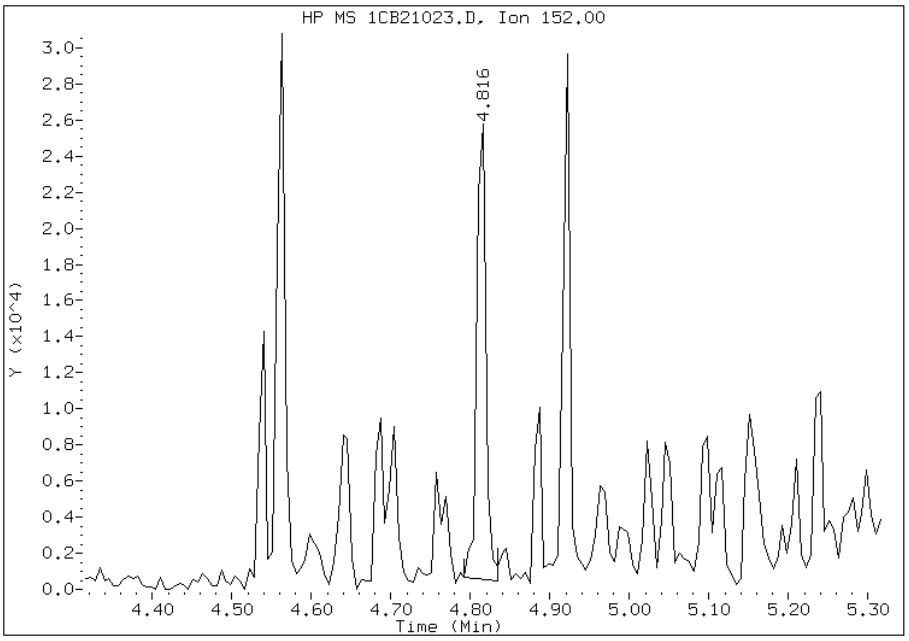
Manual Integration Results

RT: 4.82

Response: 20218

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21023.D
Inj. Date and Time: 21-FEB-2013 17:54
Instrument ID: BSMC5973.i
Client ID: CV0971AR-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/22/2013

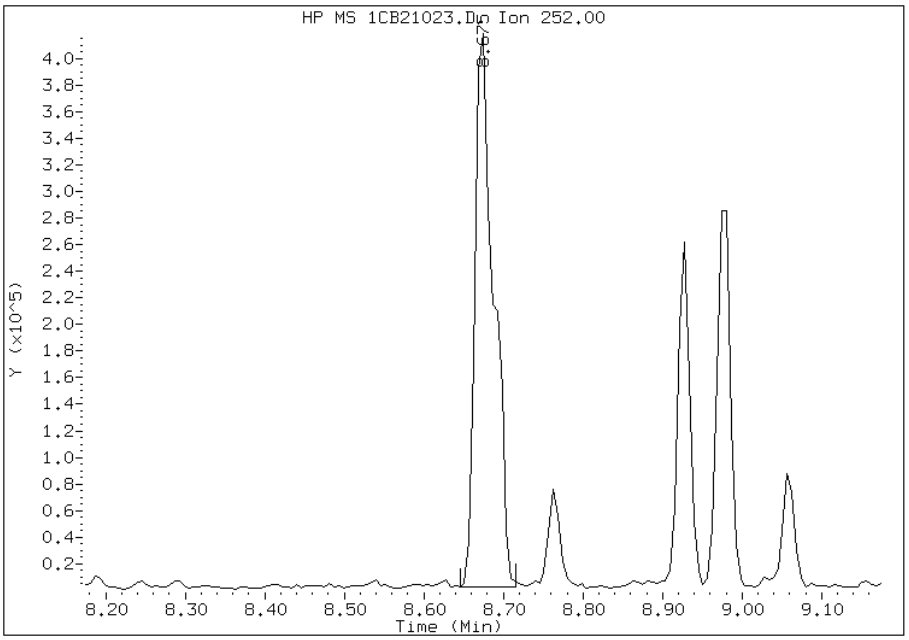
Processing Integration Results

RT: 8.67

Response: 676906

Amount: 12

Conc: 863



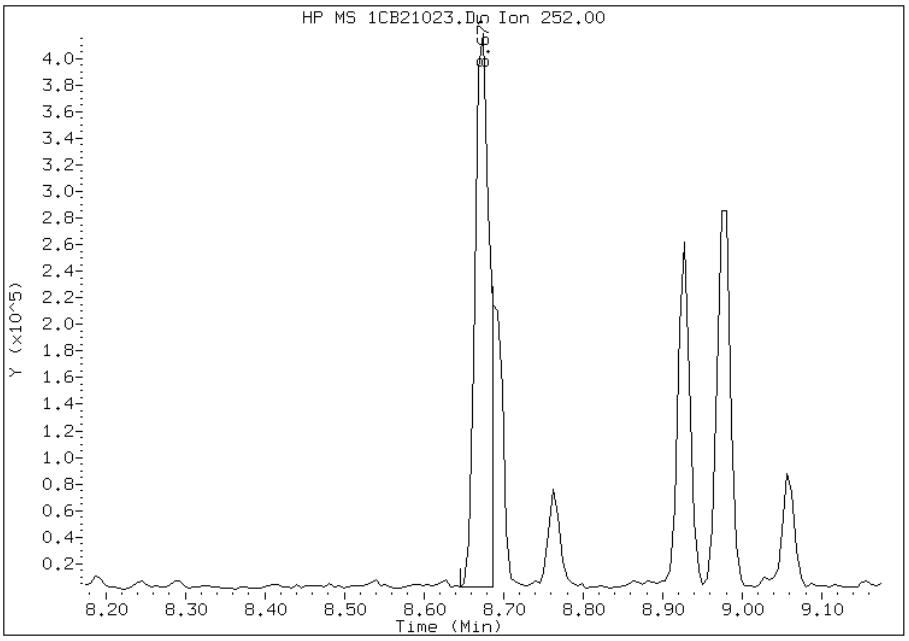
Manual Integration Results

RT: 8.67

Response: 532475

Amount: 10

Conc: 679



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB21023.D
Inj. Date and Time: 21-FEB-2013 17:54
Instrument ID: BSMC5973.i
Client ID: CV0971AR-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/22/2013

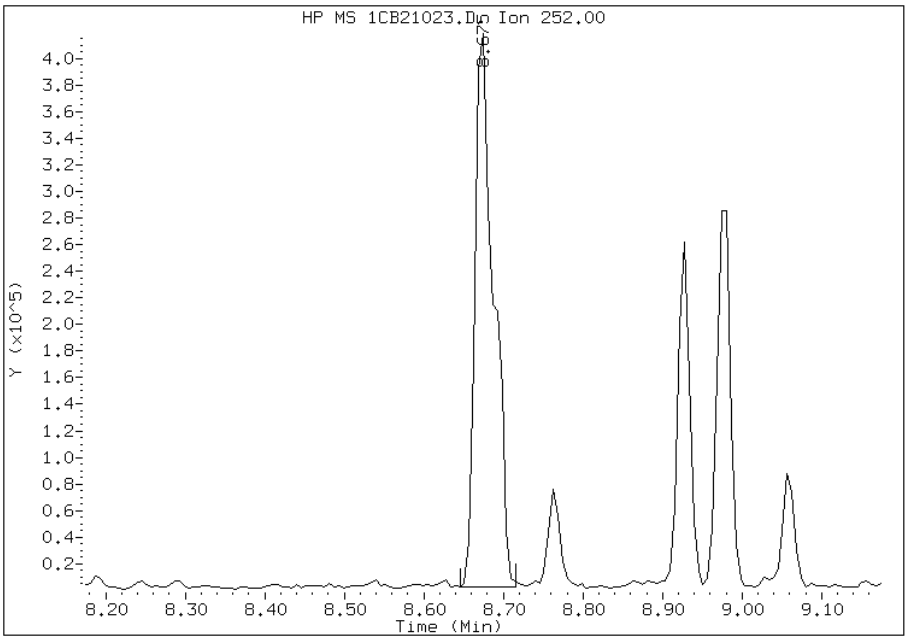
Processing Integration Results

RT: 8.67

Response: 676906

Amount: 11

Conc: 783



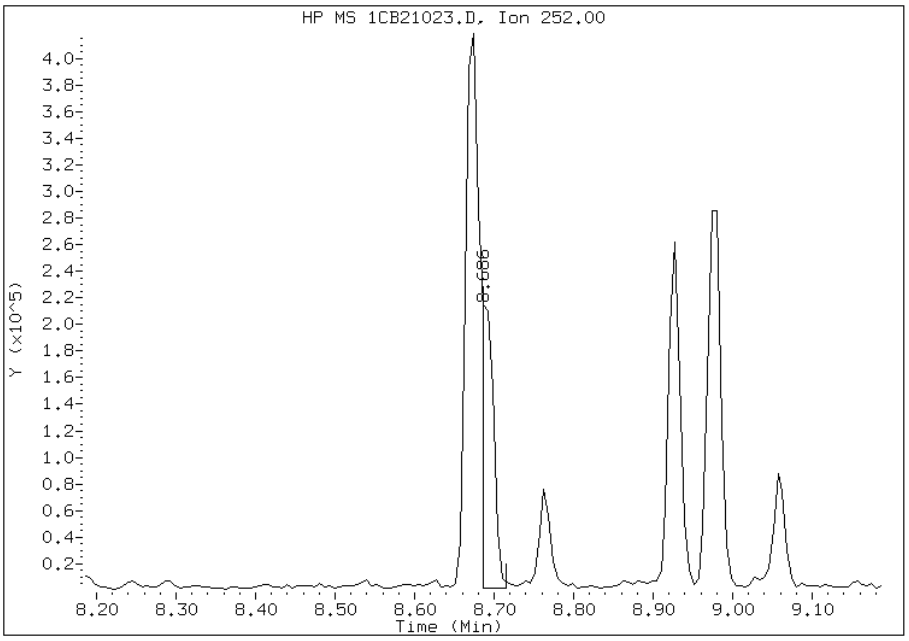
Manual Integration Results

RT: 8.69

Response: 221185

Amount: 4

Conc: 256



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21023.D
Inj. Date and Time: 21-FEB-2013 17:54
Instrument ID: BSMC5973.i
Client ID: CV0971AR-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

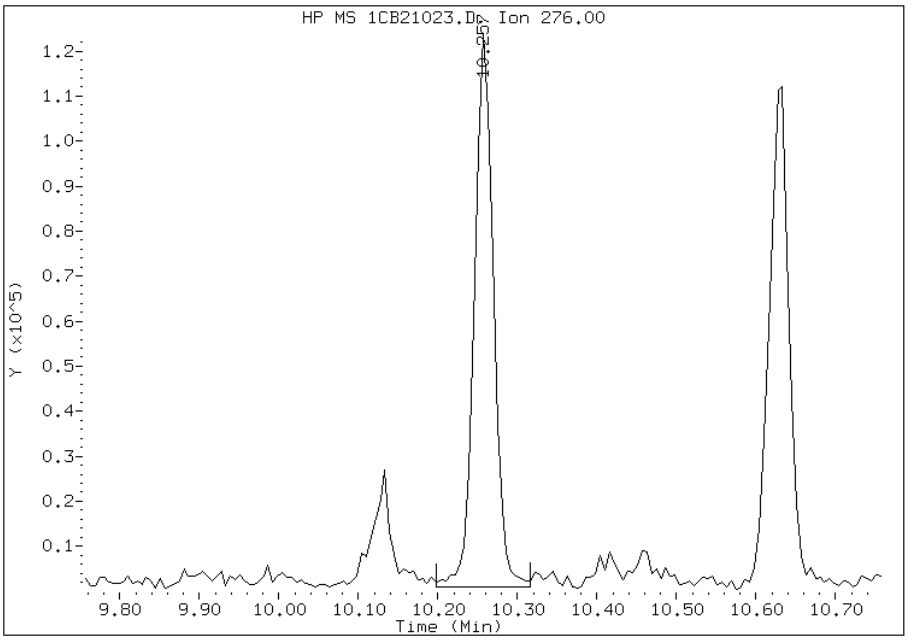
Processing Integration Results

RT: 10.26

Response: 204754

Amount: 4

Conc: 286



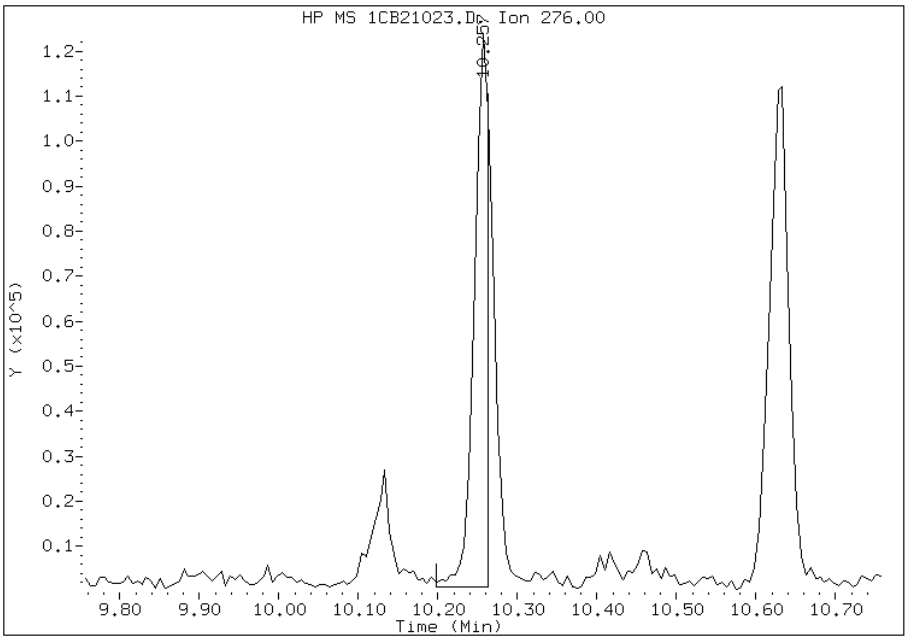
Manual Integration Results

RT: 10.26

Response: 153246

Amount: 3

Conc: 214



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:17
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971UU-CS | Lab Sample ID: 680-87496-40

Matrix: Solid | Lab File ID: 1CB21024.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 13:41

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.18(g) | Date Analyzed: 02/21/2013 18:12

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

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

% Moisture: 20.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	22	J	50	6.2
120-12-7	Anthracene	28		10	5.2
56-55-3	Benzo[a]anthracene	96		9.9	4.8
50-32-8	Benzo[a]pyrene	95		13	6.4
205-99-2	Benzo[b]fluoranthene	140		15	7.6
191-24-2	Benzo[g,h,i]perylene	64		25	5.4
207-08-9	Benzo[k]fluoranthene	71		9.9	4.5
218-01-9	Chrysene	100		11	5.6
53-70-3	Dibenz(a,h)anthracene	19	J	25	5.1
206-44-0	Fluoranthene	180		25	5.0
86-73-7	Fluorene	8.6	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	71		25	8.8
90-12-0	1-Methylnaphthalene	15	J	50	5.4
91-57-6	2-Methylnaphthalene	20	J	50	8.8
91-20-3	Naphthalene	20	J	50	5.4
85-01-8	Phenanthrene	73		9.9	4.8
129-00-0	Pyrene	160		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21024.D
Lab Smp Id: 680-87496-A-40-A Client Smp ID: CV0971UU-CS
Inj Date : 21-FEB-2013 18:12
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-40-a
Misc Info : 680-87496-A-40-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	15.180	Weight Extracted
M	20.172	% 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	3.810	3.810	(1.000)	1770802	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1352703	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2413549	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	328814	9.29799	767.2979
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2534098	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2384238	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	11112	0.23681	19.5421(Q)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	7306	0.23945	19.7604
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	5108	0.18408	15.1905
5 Acenaphthylene	152	4.816	4.815	(0.983)	14455	0.26860	22.1656
9 Fluorene	166	5.239	5.239	(1.070)	4505	0.10398	8.5804
11 Phenanthrene	178	5.868	5.874	(1.002)	63576	0.88248	72.8245
12 Anthracene	178	5.904	5.904	(1.008)	22142	0.34113	28.1508
13 Carbazole	167	6.010	6.015	(1.026)	13724	0.24342	20.0874

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	154400	2.19331	180.9987
16 Pyrene	202	6.886	6.886	(0.882)	134323	1.99104	164.3063
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	81005	1.15918	95.6591
19 Chrysene	228	7.827	7.833	(1.002)	90262	1.25045	103.1909
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	102641	1.75594	144.9051(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	55723	0.86531	71.4079(QM)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	63785	1.14676	94.6339
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	45896	0.85909	70.8950(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	11544	0.22914	18.9093
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	41931	0.77267	63.7628

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB21024.D

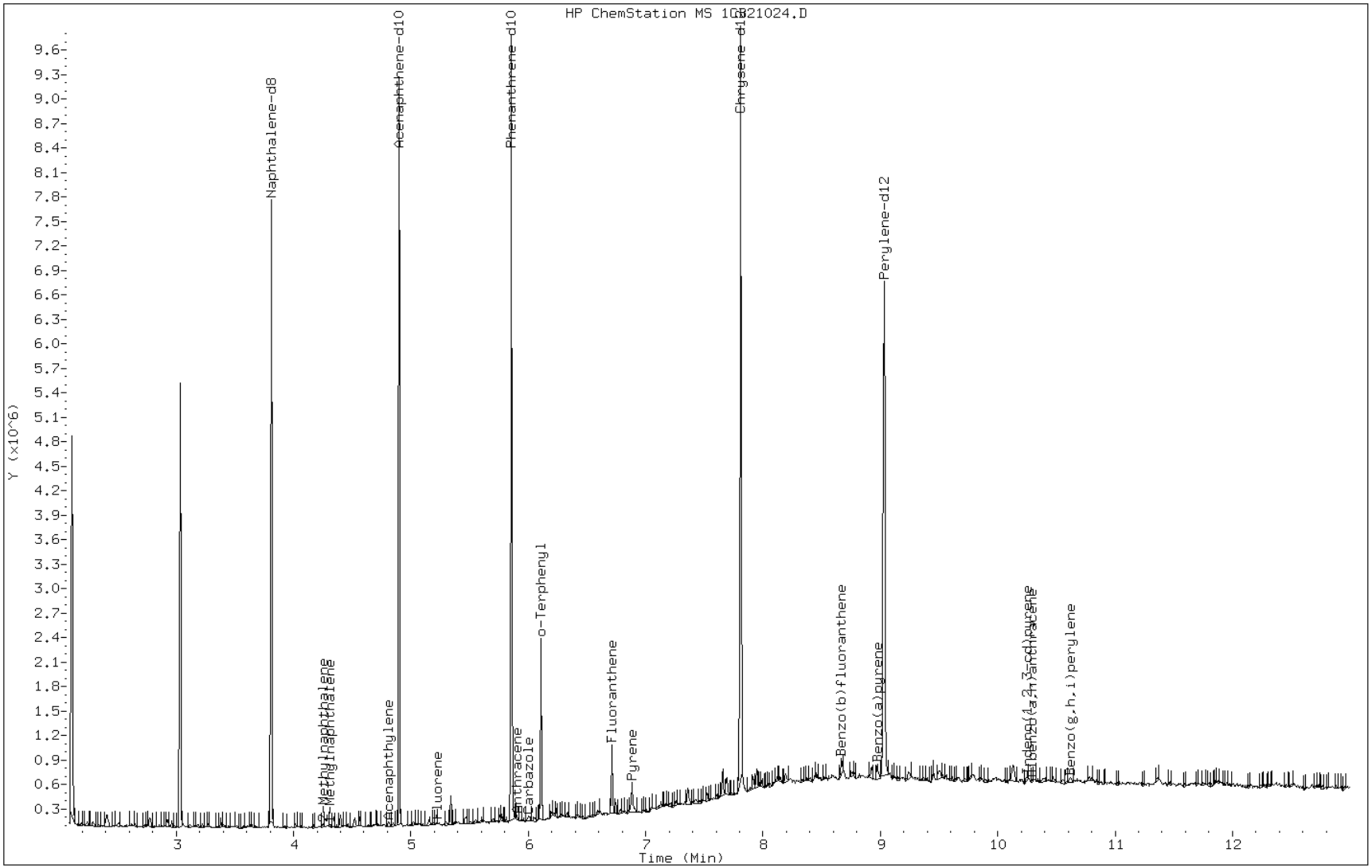
Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a

Operator: SCC



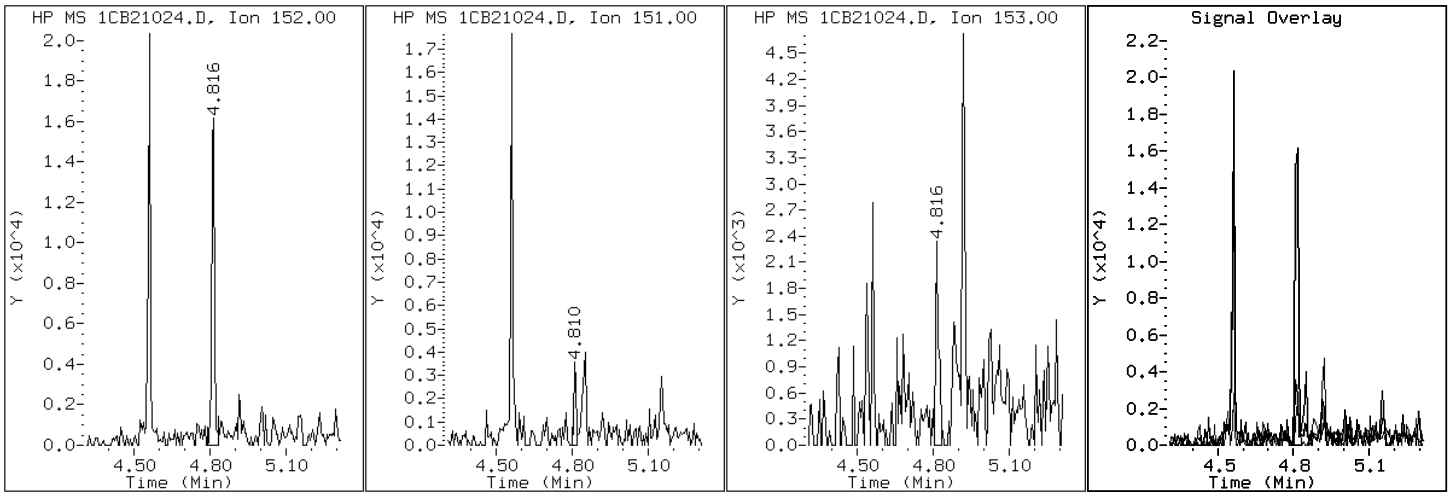
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

5 Acenaphthylene



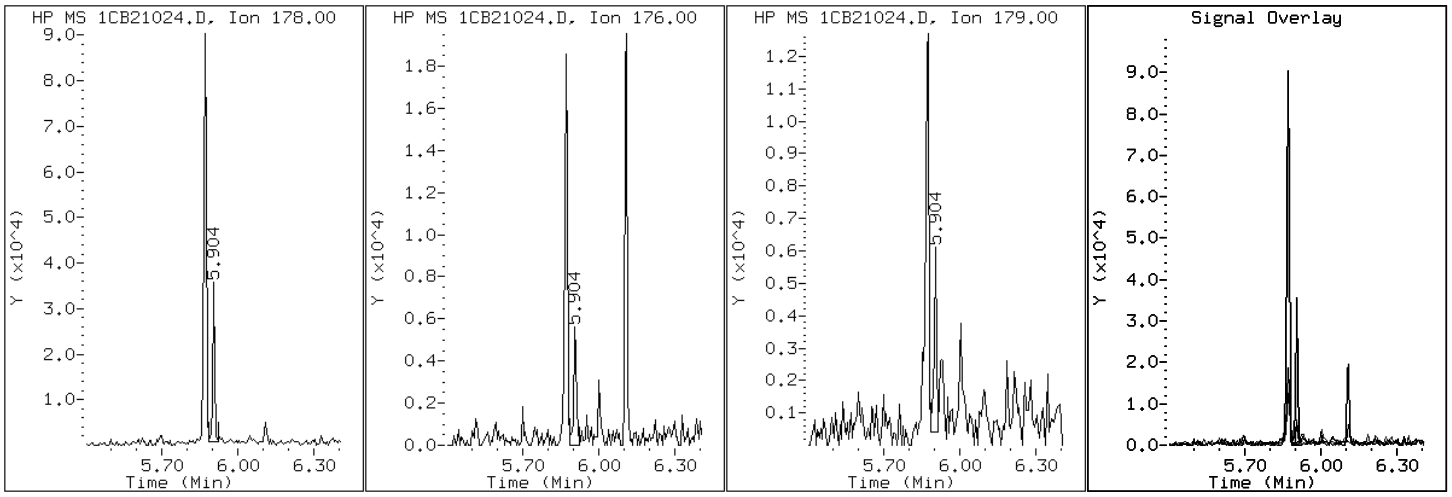
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

12 Anthracene



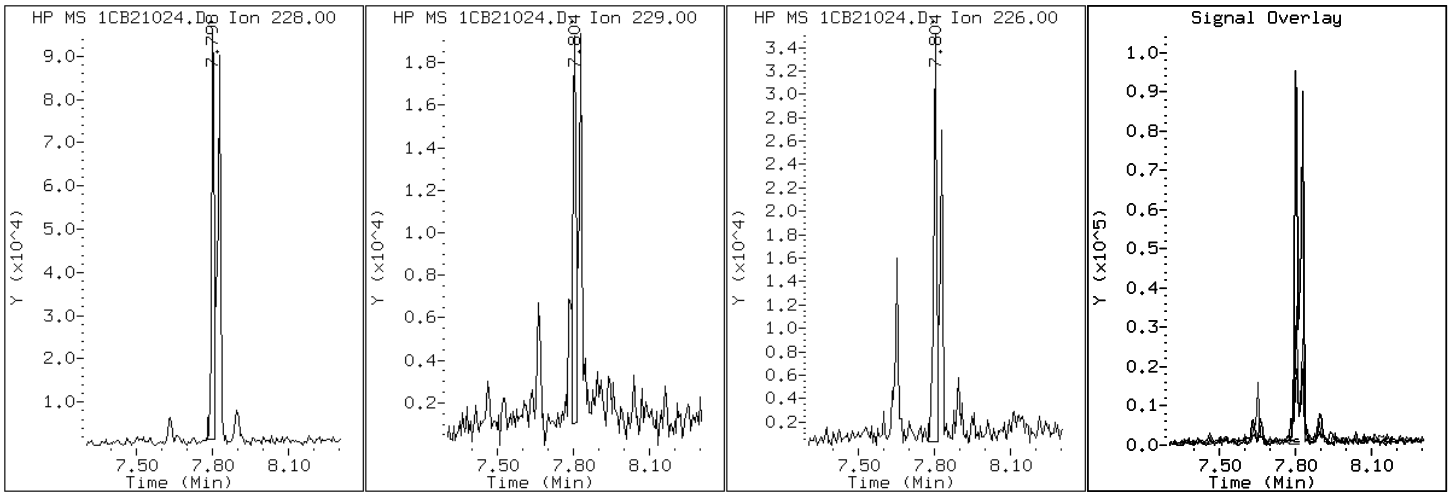
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

17 Benzo(a)anthracene



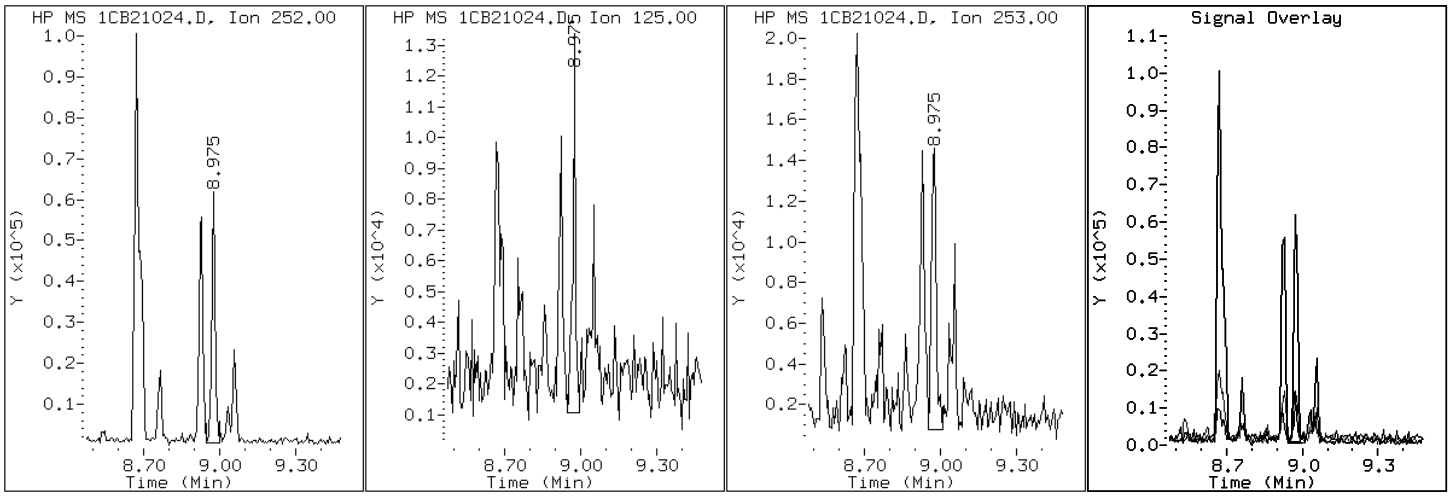
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

22 Benzo(a)pyrene



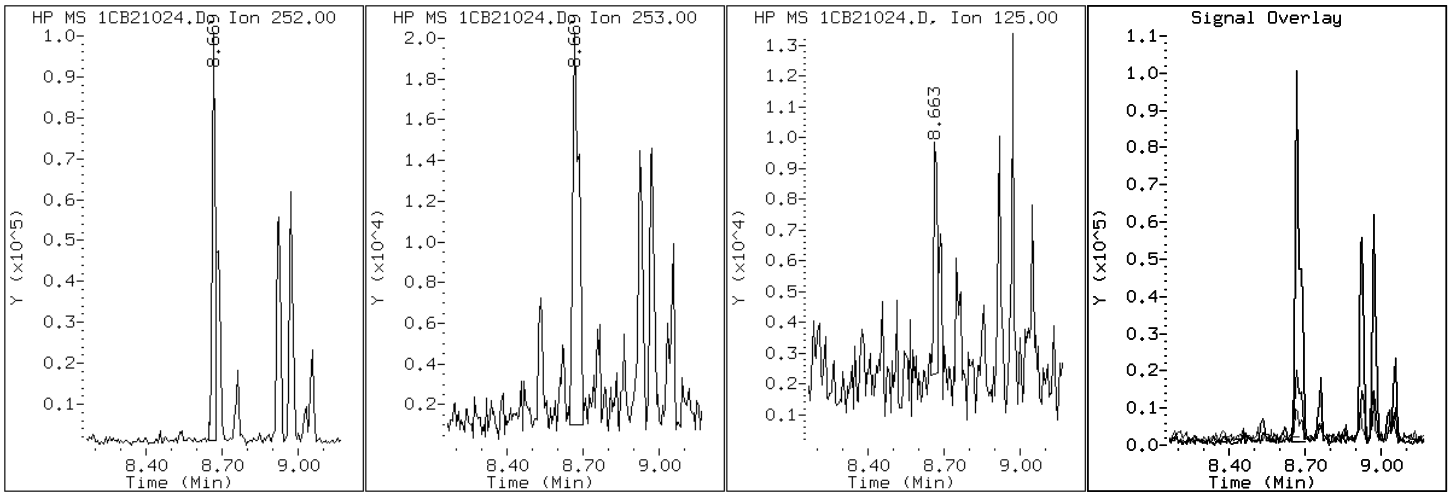
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

20 Benzo(b)fluoranthene



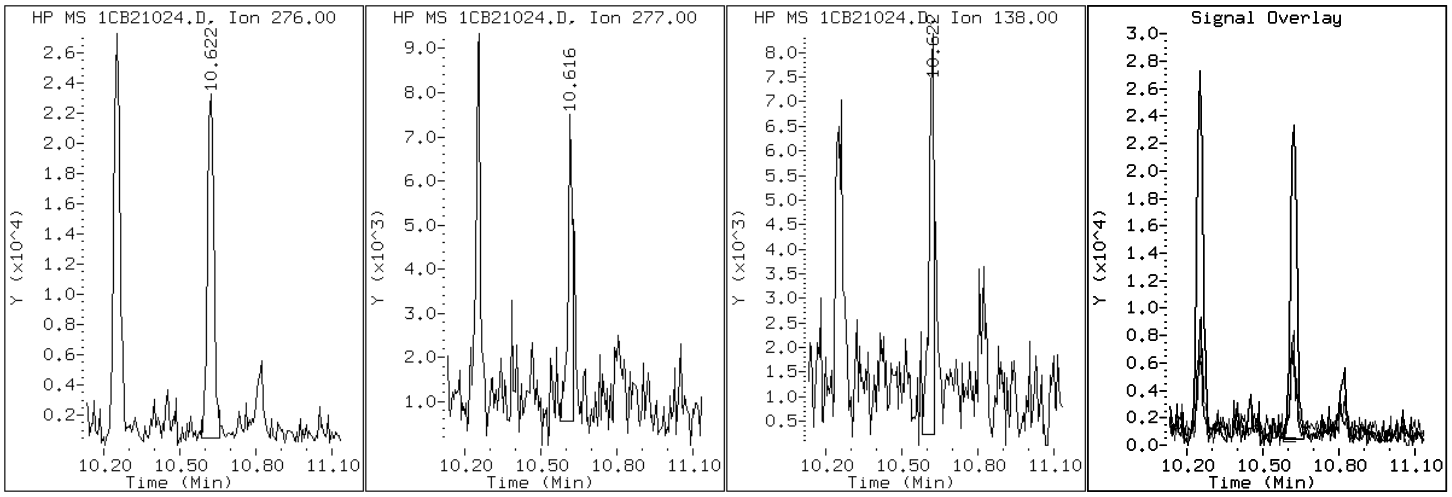
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

26 Benzo(g,h,i)perylene



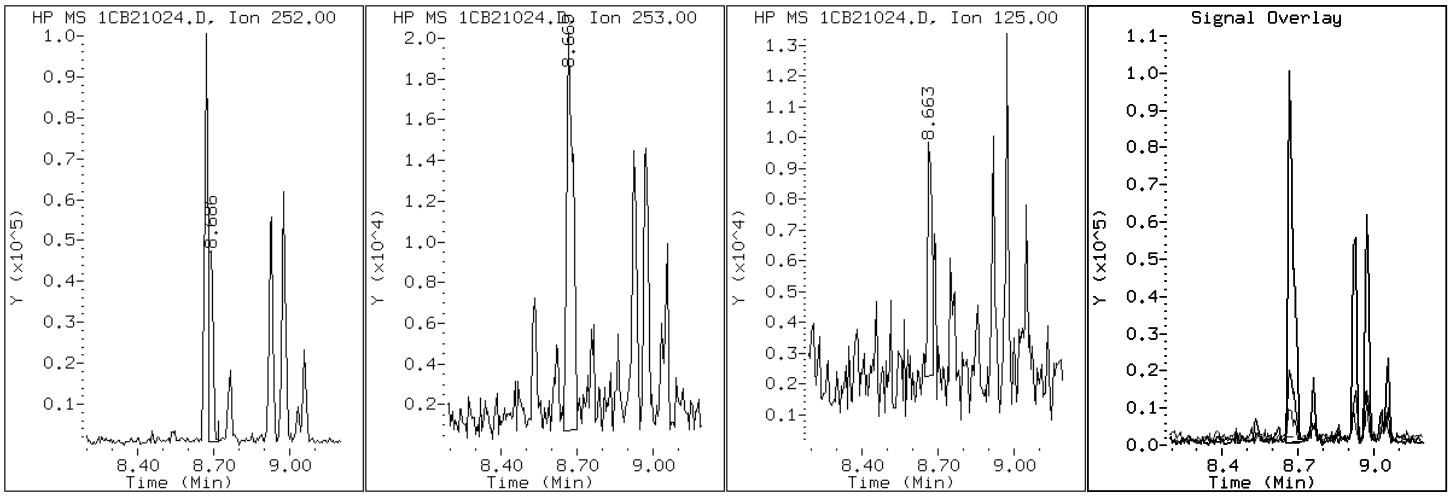
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

21 Benzo(k)fluoranthene



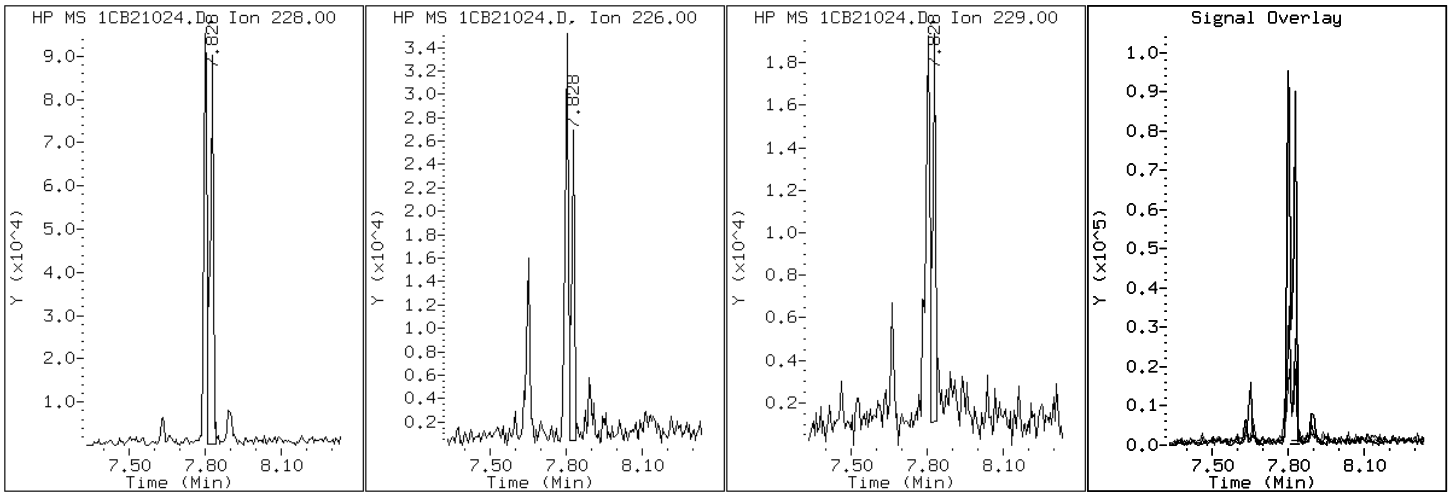
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

19 Chrysene



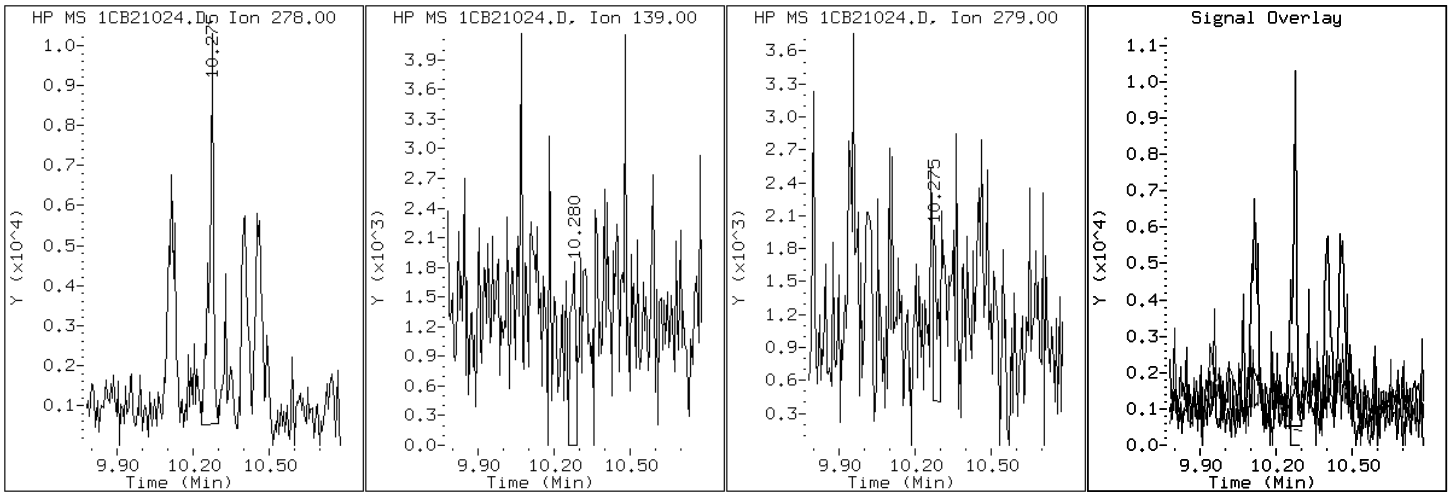
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

25 Dibenzo(a,h)anthracene



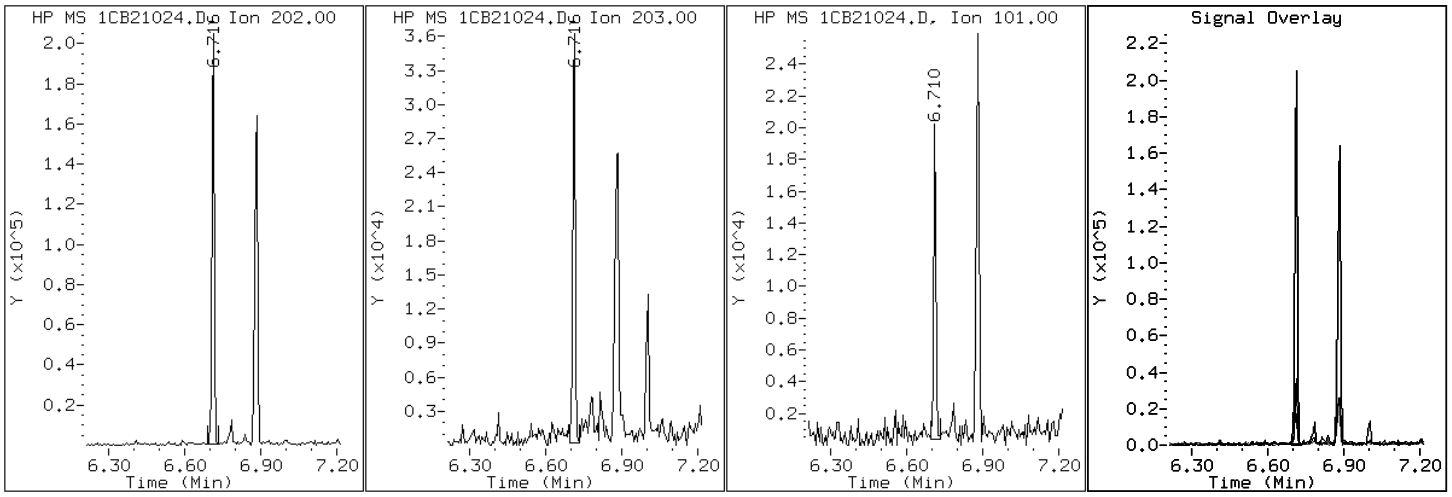
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

15 Fluoranthene



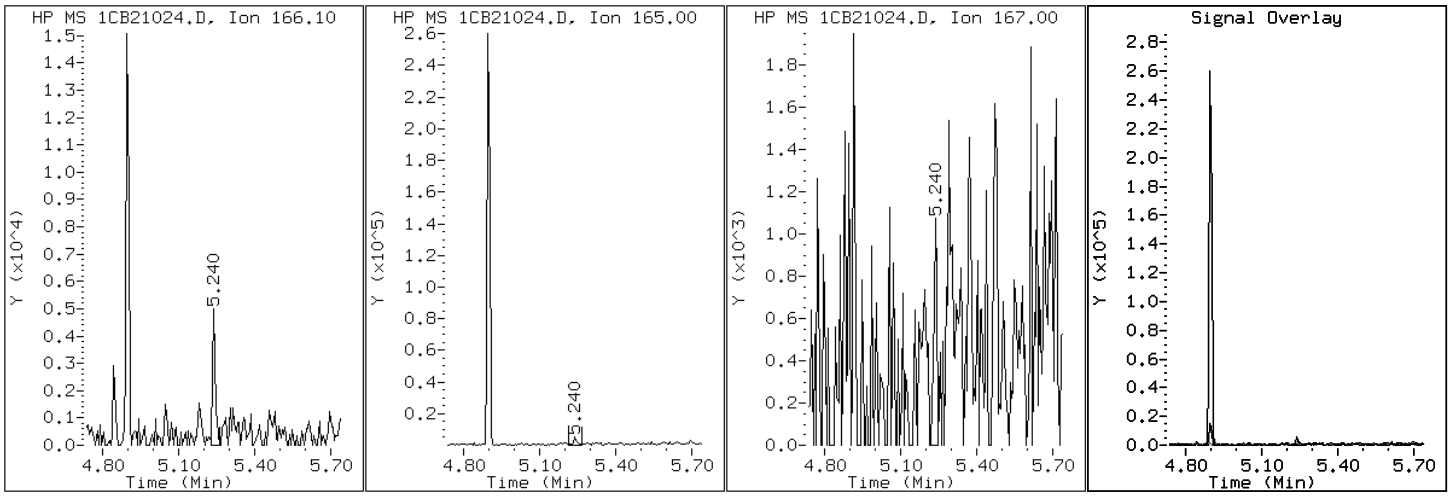
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

9 Fluorene



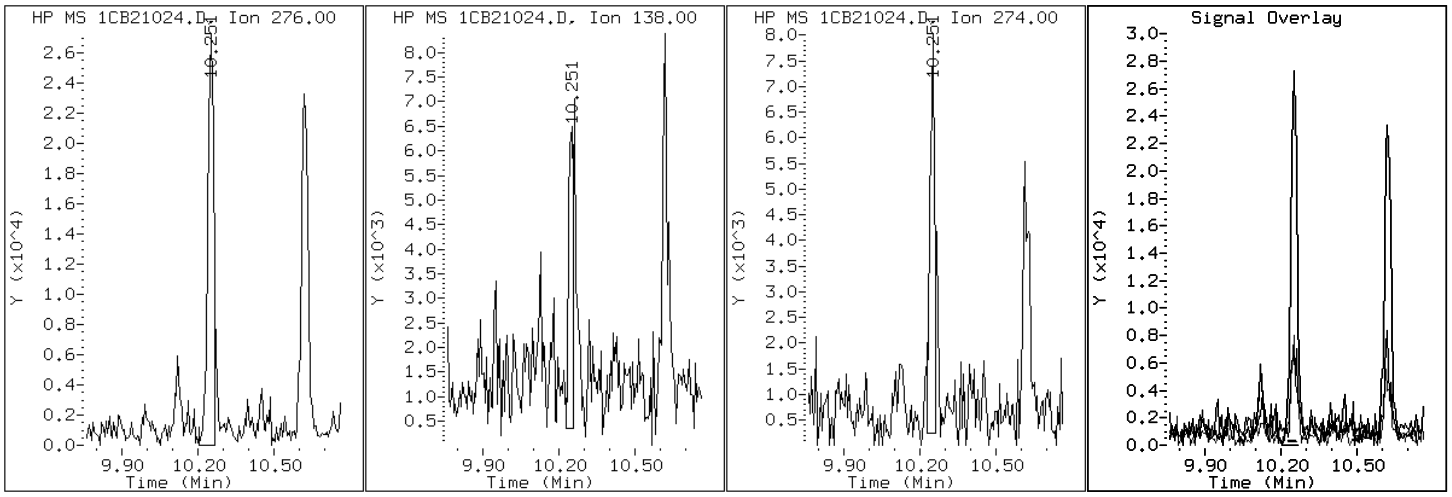
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

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



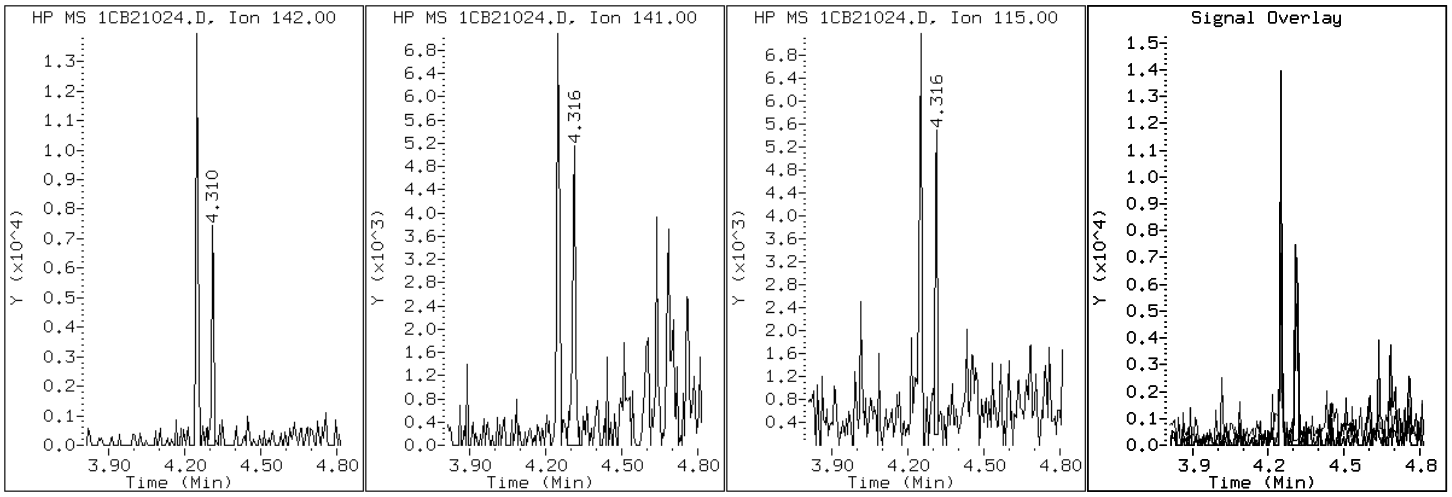
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

4 1-Methylnaphthalene



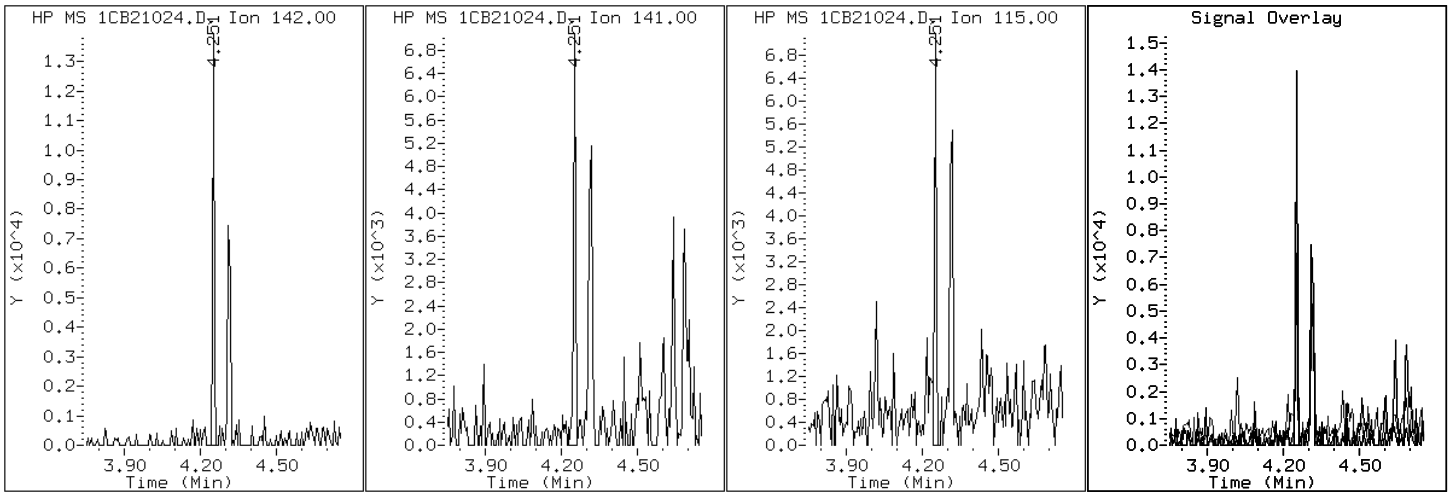
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

3 2-Methylnaphthalene



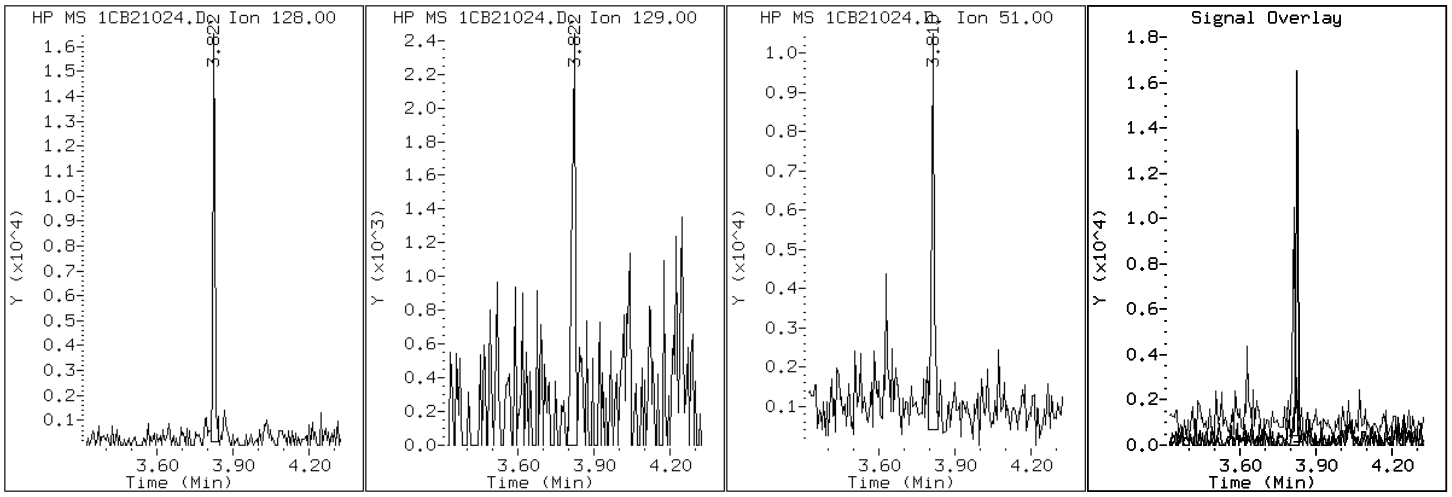
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

2 Naphthalene



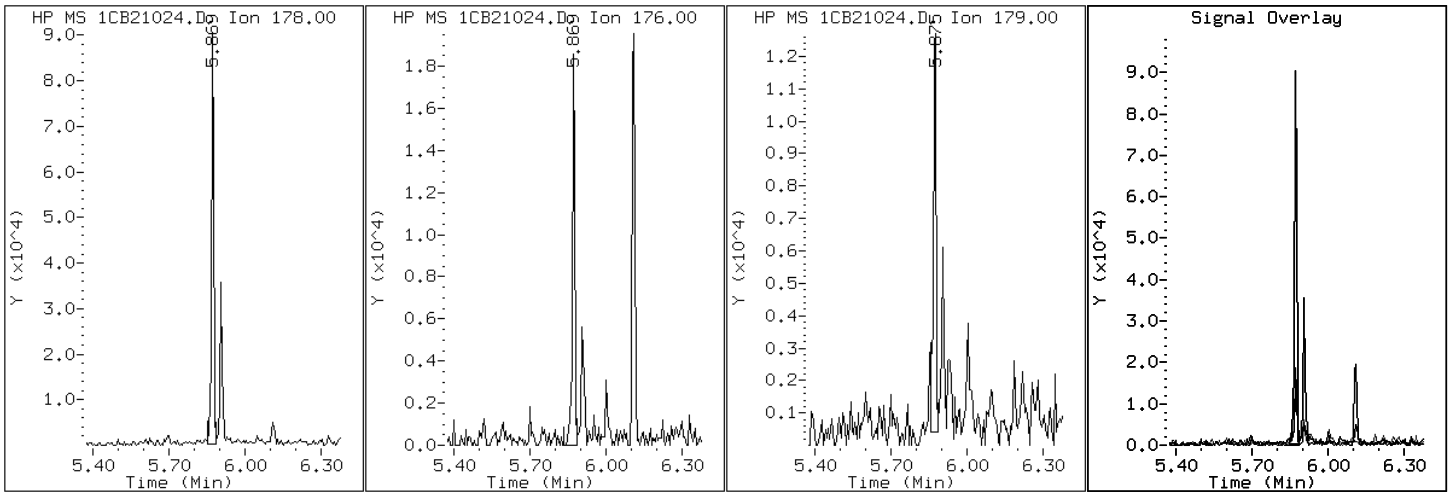
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

11 Phenanthrene



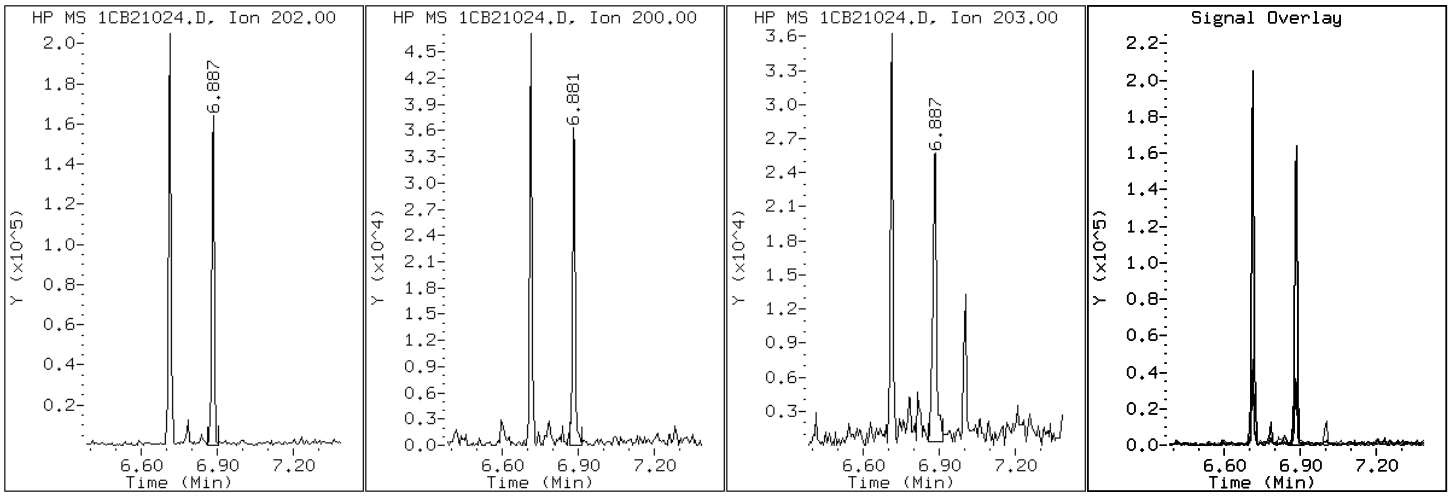
Data File: 1CB21024.D

Date: 21-FEB-2013 18:12

Client ID: CV0971UU-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-40-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21024.D
Inj. Date and Time: 21-FEB-2013 18:12
Instrument ID: BSMC5973.i
Client ID: CV0971UU-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/22/2013

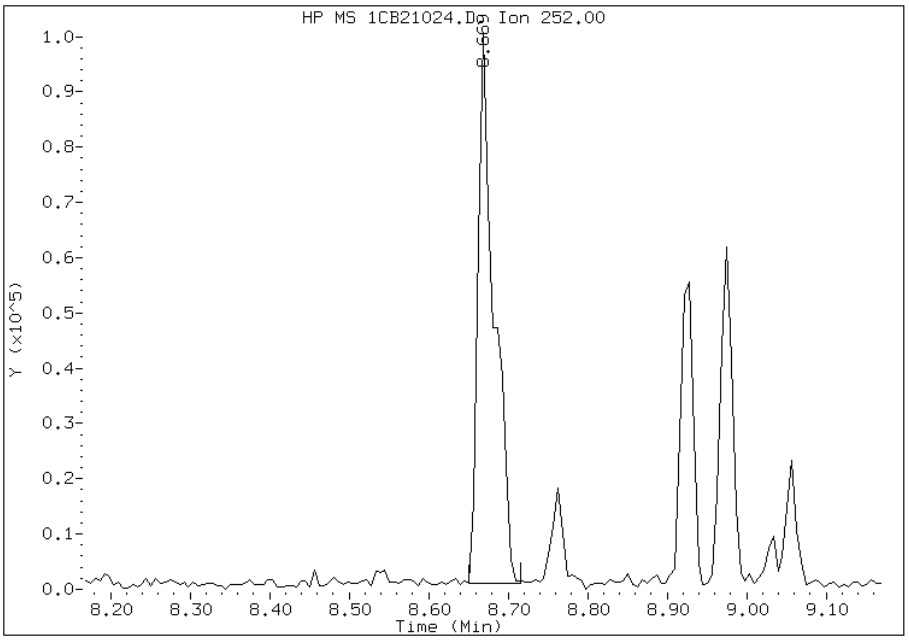
Processing Integration Results

RT: 8.67

Response: 141558

Amount: 2

Conc: 200



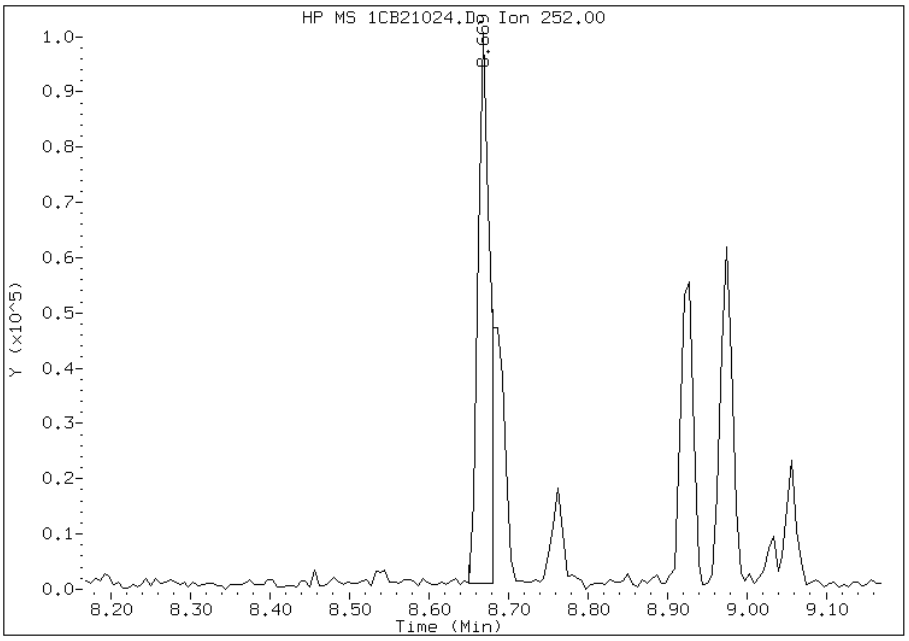
Manual Integration Results

RT: 8.67

Response: 102641

Amount: 2

Conc: 145



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:17
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB21024.D
Inj. Date and Time: 21-FEB-2013 18:12
Instrument ID: BSMC5973.i
Client ID: CV0971UU-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/22/2013

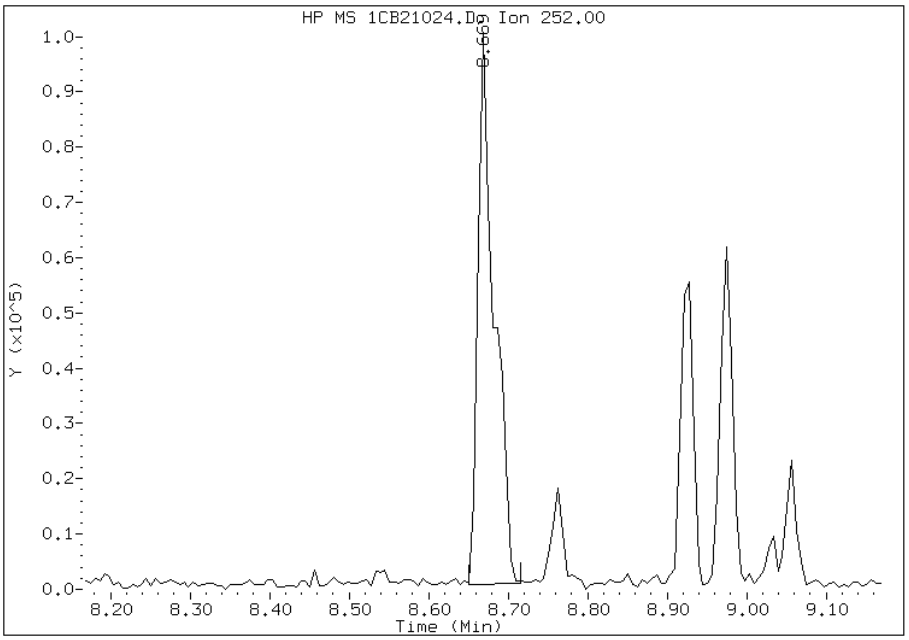
Processing Integration Results

RT: 8.67

Response: 142051

Amount: 2

Conc: 182



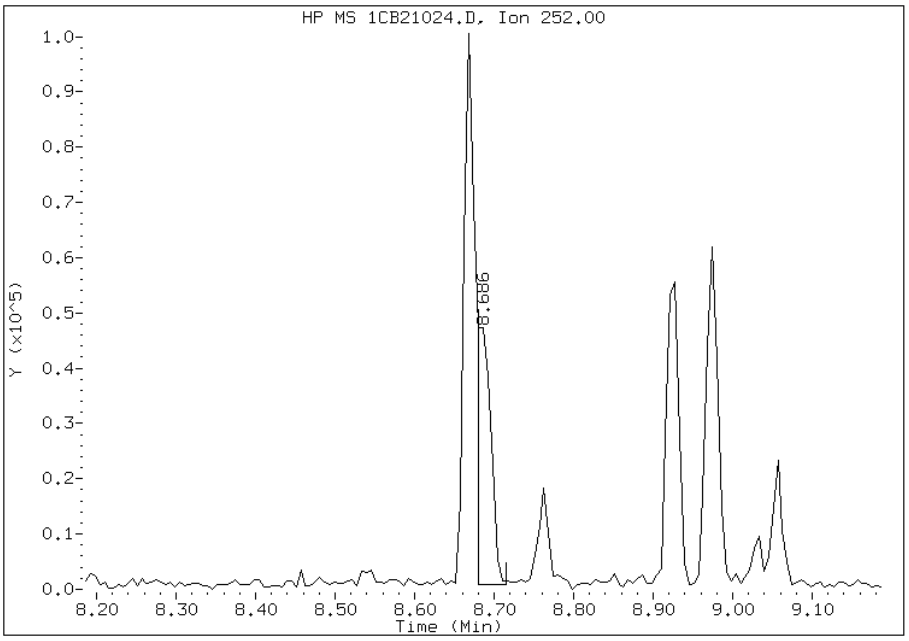
Manual Integration Results

RT: 8.69

Response: 55723

Amount: 1

Conc: 71



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21024.D
Inj. Date and Time: 21-FEB-2013 18:12
Instrument ID: BSMC5973.i
Client ID: CV0971UU-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

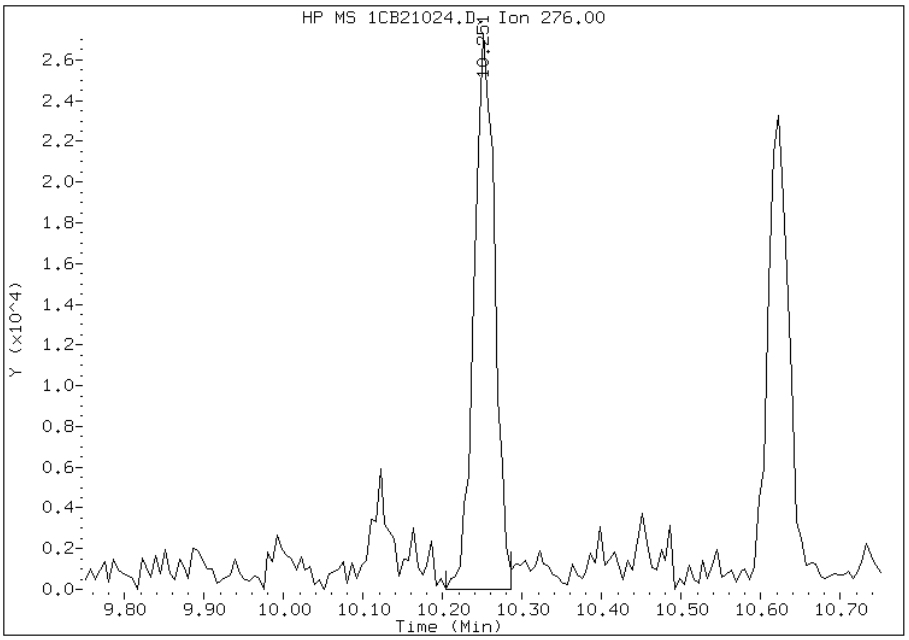
Processing Integration Results

RT: 10.25

Response: 49122

Amount: 1

Conc: 76



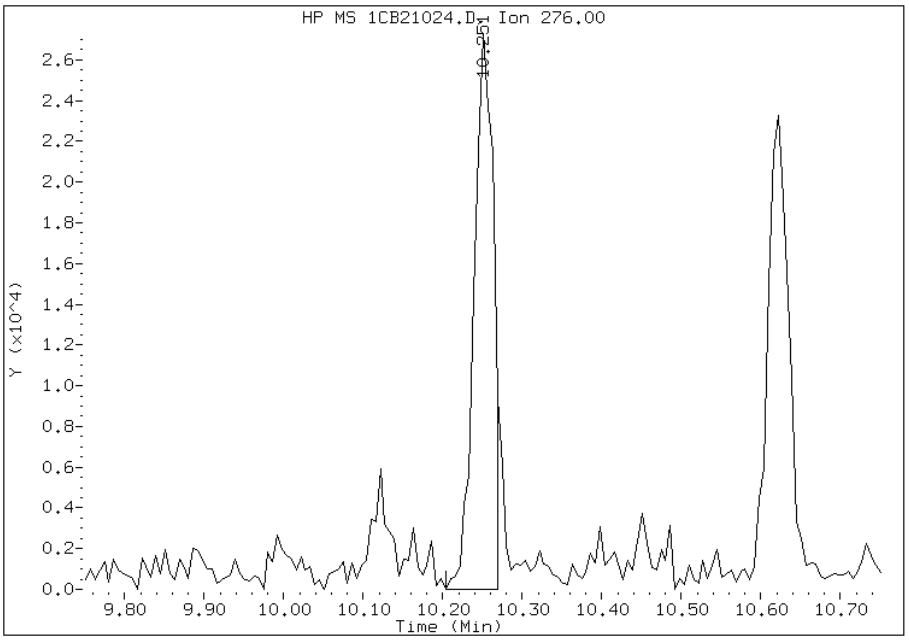
Manual Integration Results

RT: 10.25

Response: 45896

Amount: 1

Conc: 71



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:18
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87496-2 Analy Batch No.: 133227

SDG No.: 68087496-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133227/3	1CA07013.D
Level 2	IC 660-133227/4	1CA07014.D
Level 3	IC 660-133227/5	1CA07015.D
Level 4	IC 660-133227/6	1CA07016.D
Level 5	ICIS 660-133227/7	1CA07017.D
Level 6	IC 660-133227/8	1CA07018.D
Level 7	IC 660-133227/9	1CA07019.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	1.0948 1.0545	0.9495 1.0923	1.1033	1.0932	1.0321	Ave		1.0599			0.0000	5.2		15.0			
2-Methylnaphthalene	0.7336 0.6800	0.6777 0.6981	0.6603	0.7017	0.6730	Ave		0.6892			0.0000	3.5		15.0			
1-Methylnaphthalene	0.5817 0.6643	0.5360 0.6684	0.6316	0.6552	0.6507	Ave		0.6268			0.0000	7.9		15.0			
Acenaphthylene	1.7181 1.6465	1.4412 1.6572	1.4779	1.5857	1.6130	Ave		1.5914			0.0000	6.3		15.0			
Acenaphthene	1.1390 0.9603	1.0282 0.9633	0.9458	1.0094	0.9406	Ave		0.9981			0.0000	7.0		15.0			
Fluorene	1.3483 1.3015	1.2058 1.2912	1.2211	1.3274	1.2732	Ave		1.2812			0.0000	4.1		15.0			
Phenanthrene	1.5909 1.1271	1.1807 1.1120	1.0815	1.1674	1.0983	Ave		1.1940			0.0000	15.0		15.0			
Anthracene	1.0132 1.1091	0.9972 1.1231	1.0674	1.1234	1.0967	Ave		1.0757			0.0000	4.8		15.0			
Carbazole	0.8906 0.9895	0.8628 0.9866	0.8811	0.9644	0.9658	Ave		0.9344			0.0000	5.8		15.0			
Fluoranthene	0.9799 1.2313	1.0735 1.2497	1.1621	1.2234	1.2469	Ave		1.1667			0.0000	8.9		15.0			
Pyrene	0.8059 1.1858	1.0113 1.1112	1.0616	1.1543	1.1241	Ave		1.0649			0.0000	12.0		15.0			
Benzo[a]anthracene	1.4670 1.0800	0.9986 1.0530	1.0400	1.0600	1.0228	Ave		1.1031			0.0000	14.7		15.0			
Chrysene	1.2057 1.1045	1.2101 1.0821	1.1125	1.1626	1.0982	Ave		1.1394			0.0000	4.7		15.0			
Benzo[b]fluoranthene	0.8713 1.0190	0.8691 1.1293	0.9456	1.0325	0.9979	Ave		0.9807			0.0000	9.5		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.: 680-87496-2 Analy Batch No.: 133227

SDG No.: 68087496-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

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	0.9252 1.2002	0.9572 1.1097	1.0697	1.1497	1.1509	Ave		1.0804			0.0000	9.6		15.0			
Benzo[a]pyrene	0.7248 1.0316	0.8455 1.0436	0.9117	0.9956	0.9794	Ave		0.9332			0.0000	12.3		15.0			
Indeno[1,2,3-cd]pyrene	0.6998 0.9422	0.4820 0.8813	0.8137	0.8316	0.9002	LinF		0.8963			0.0000				0.9980		0.9900
Dibenz(a,h)anthracene	0.7712 0.9005	0.7805 0.9132	0.8152	0.8774	0.8585	Ave		0.8452			0.0000	6.7		15.0			
Benzo[g,h,i]perylene	0.8112 0.9967	0.7908 0.9698	0.9172	0.9667	0.9207	Ave		0.9104			0.0000	8.8		15.0			
o-Terphenyl	0.5355 0.5984	0.5589 0.5994	0.5931	0.6168	0.6005	Ave		0.5861			0.0000	4.8		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.: 680-87496-2 Analy Batch No.: 133227

SDG No.: 68087496-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133227/3	1CA07013.D
Level 2	IC 660-133227/4	1CA07014.D
Level 3	IC 660-133227/5	1CA07015.D
Level 4	IC 660-133227/6	1CA07016.D
Level 5	ICIS 660-133227/7	1CA07017.D
Level 6	IC 660-133227/8	1CA07018.D
Level 7	IC 660-133227/9	1CA07019.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	11168 1744899	49180 2683662	279616	562439	1132608	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7484 1125305	35101 1715115	167348	360991	738557	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	5934 1099203	27760 1642265	160060	337071	714057	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	13060 2078096	55638 3143102	277566	597168	1333542	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8658 1212087	39694 1826987	177622	380155	777625	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10249 1642686	46551 2448772	229328	499898	1052584	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	22944 2725408	87138 3980821	382657	852208	1725035	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	14612 2681981	73594 4020655	377684	820090	1722588	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	12845 2392859	63677 3531798	311754	704012	1516911	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	14132 2977438	79223 4473693	411201	893123	1958378	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13699 3254878	87607 4789001	444176	1032505	2128584	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	24935 2964525	86510 4538204	435113	948119	1936797	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	20495 3031738	104834 4663655	465452	1039885	2079538	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	15170 2773683	75135 4834833	409334	924867	1891292	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	16108 3267104	82752 4750961	463057	1029821	2181246	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.: 680-87496-2 Analy Batch No.: 133227

SDG No.: 68087496-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

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	12619 2808161	73092 4467973	394642	891772	1856241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	LinF	12184 2564602	41666 3772962	352250	744949	1706161	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13428 2451088	67472 3909634	352888	785898	1627151	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14123 2713188	68360 4151782	397056	865965	1745002	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7723 1447125	41244 2145891	209857	450297	943151	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\BSMC5973.i\1C010713.b\1CA07013.D
Lab Smp Id: IC-1489894
Inj Date : 07-JAN-2013 15:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 13 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	3.869	3.869	(1.000)	2040281	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1520300	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2884412	40.0000	
$ 14 o-Terphenyl	230	6.162	6.162	(1.042)	7723	0.20000	0.1827
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3399562	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3482211	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	11168	0.20000	0.2065(Q)
3 2-Methylnaphthalene	142	4.304	4.304	(1.113)	7484	0.20000	0.2128
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	5934	0.20000	0.1855
5 Acenaphthylene	152	4.868	4.868	(0.982)	13060	0.20000	0.2159
7 Acenaphthene	154	4.974	4.974	(1.004)	8658	0.20000	0.2282
9 Fluorene	166	5.298	5.298	(1.069)	10249	0.20000	0.2104
11 Phenanthrene	178	5.927	5.927	(1.002)	22944	0.20000	0.2664
12 Anthracene	178	5.962	5.962	(1.008)	14612	0.20000	0.1883
13 Carbazole	167	6.074	6.074	(1.027)	12845	0.20000	0.1906
15 Fluoranthene	202	6.774	6.774	(1.145)	14132	0.20000	0.1679
16 Pyrene	202	6.945	6.945	(0.883)	13699	0.20000	0.1513
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	24935	0.20000	0.2659
19 Chrysene	228	7.886	7.886	(1.002)	20495	0.20000	0.2116
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	15170	0.20000	0.1776
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	16108	0.20000	0.1712(M)
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	12619	0.20000	0.1553
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	12184	0.20000	0.1764(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	13428	0.20000	0.1824(M)
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	14123	0.20000	0.1781(M)

QC Flag Legend

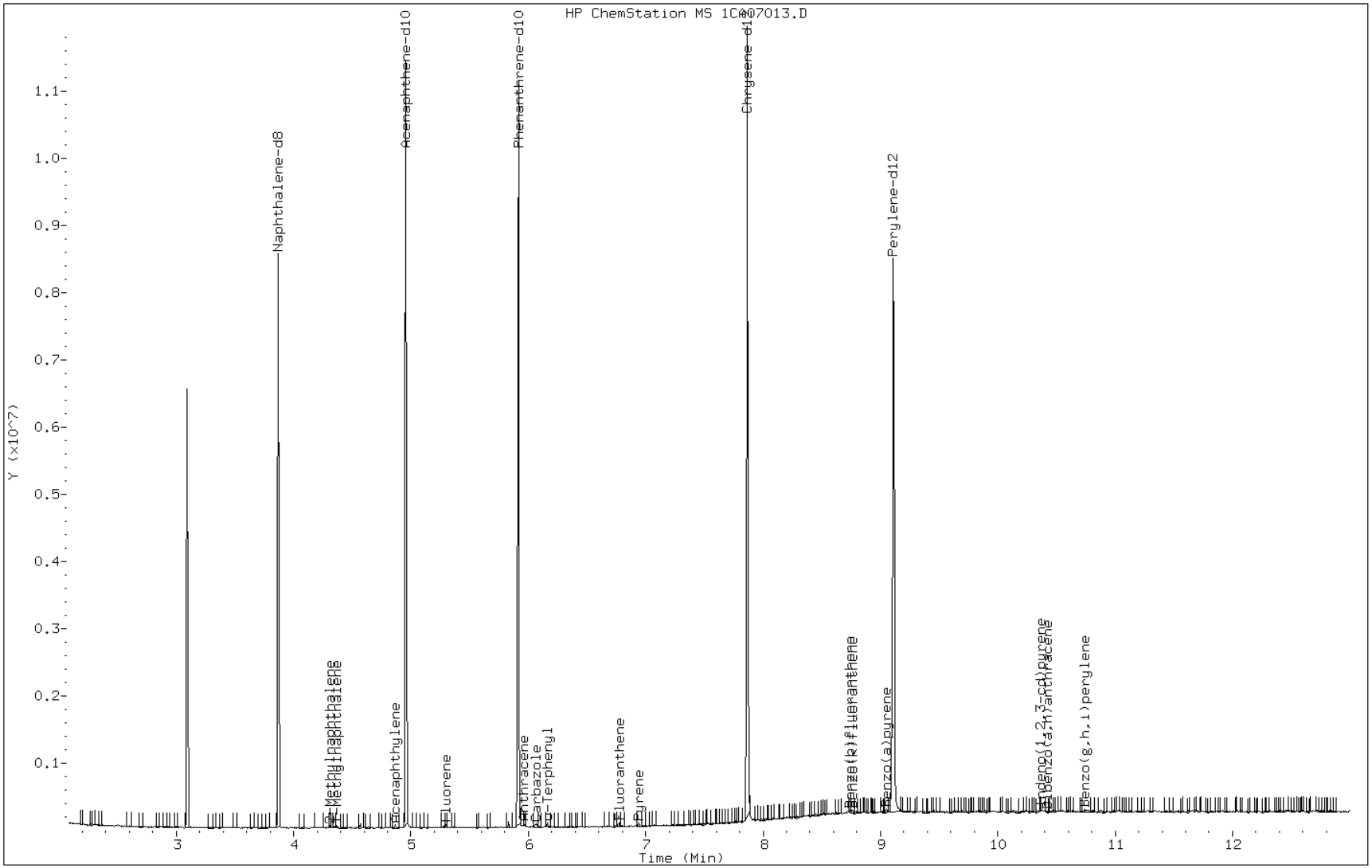
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07013.D

Date: 07-JAN-2013 15:23

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/08/2013

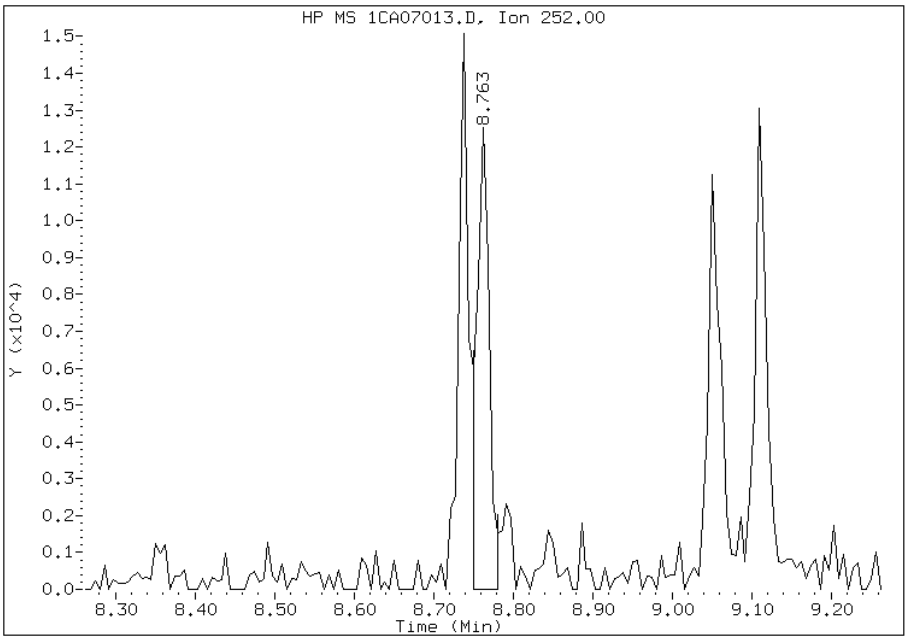
Processing Integration Results

RT: 8.76

Response: 14049

Amount: 0

Conc: 0



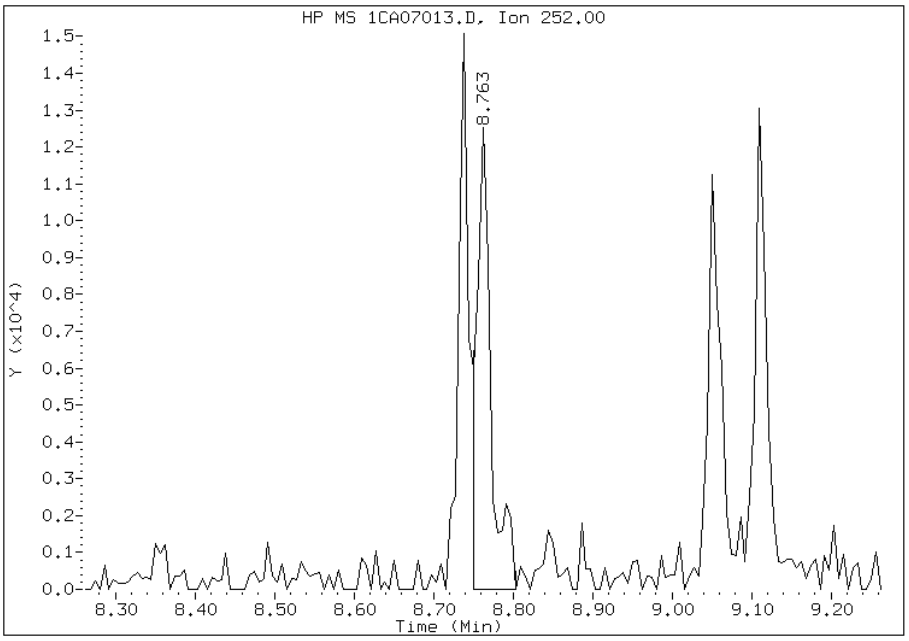
Manual Integration Results

RT: 8.76

Response: 16108

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

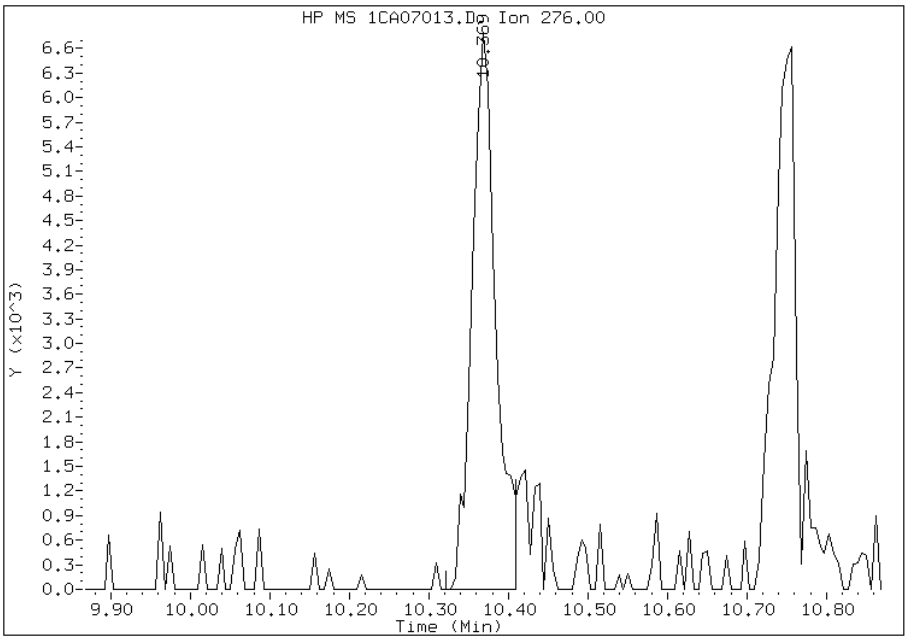
Processing Integration Results

RT: 10.37

Response: 14154

Amount: 0

Conc: 0



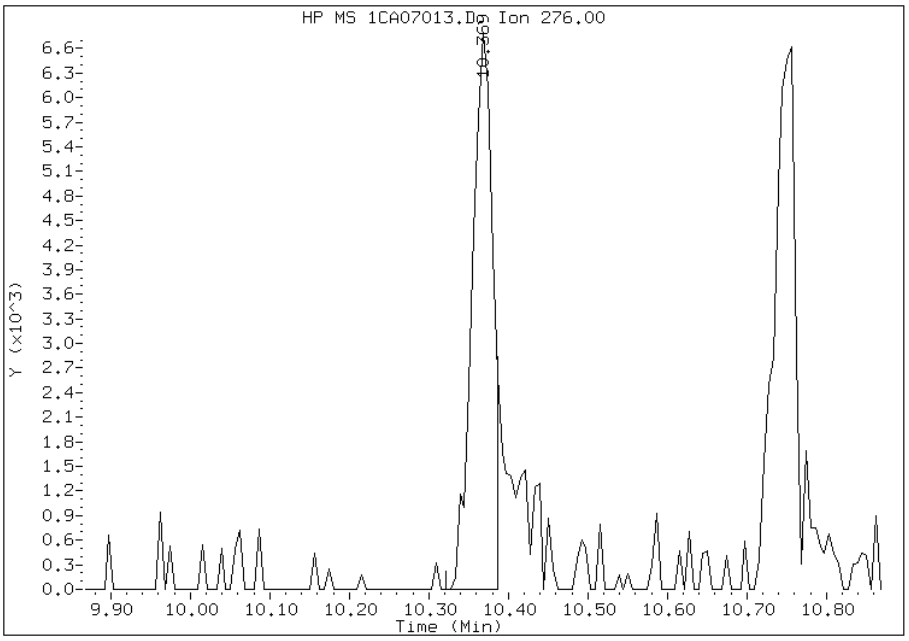
Manual Integration Results

RT: 10.37

Response: 12184

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

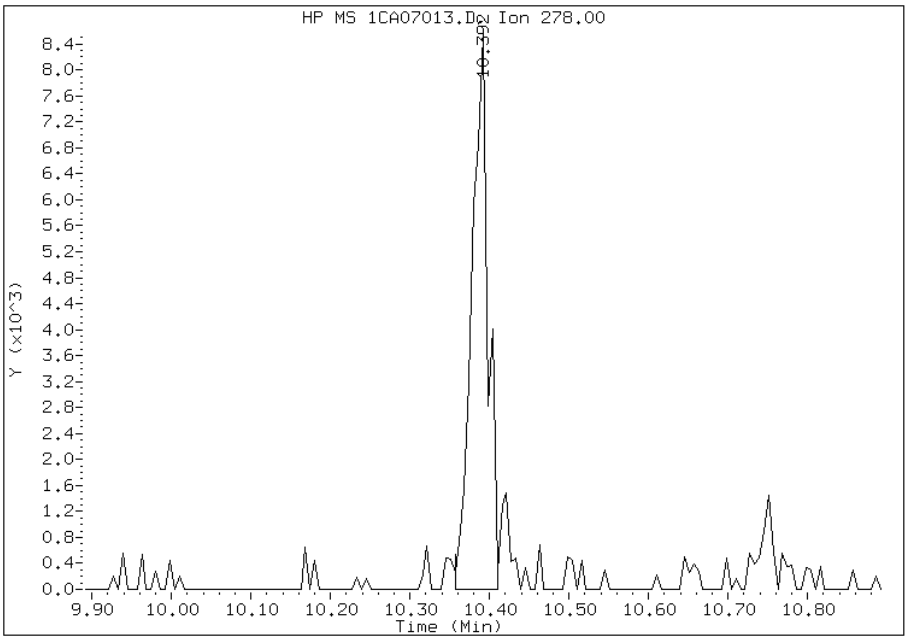
Processing Integration Results

RT: 10.39

Response: 12138

Amount: 0

Conc: 0



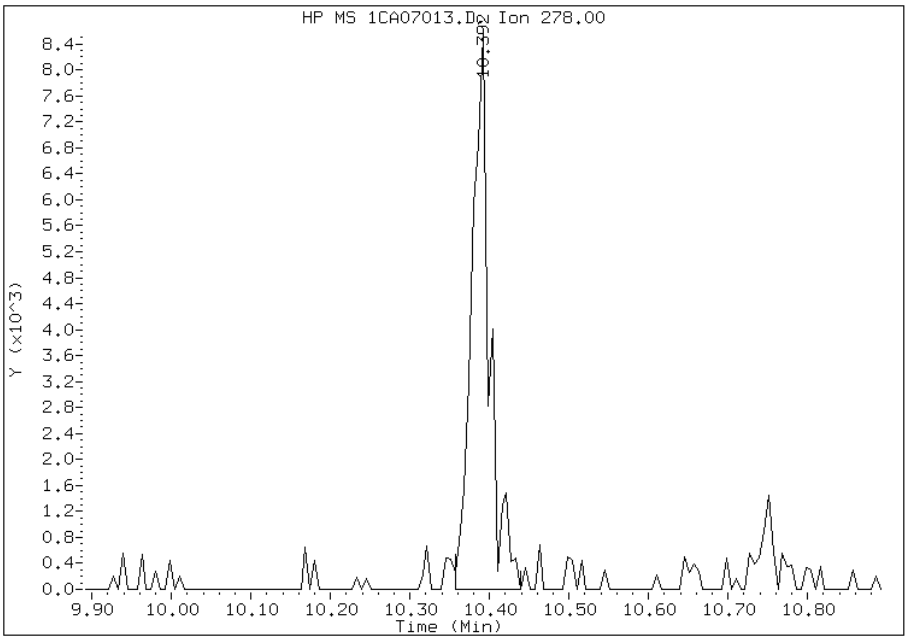
Manual Integration Results

RT: 10.39

Response: 13428

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

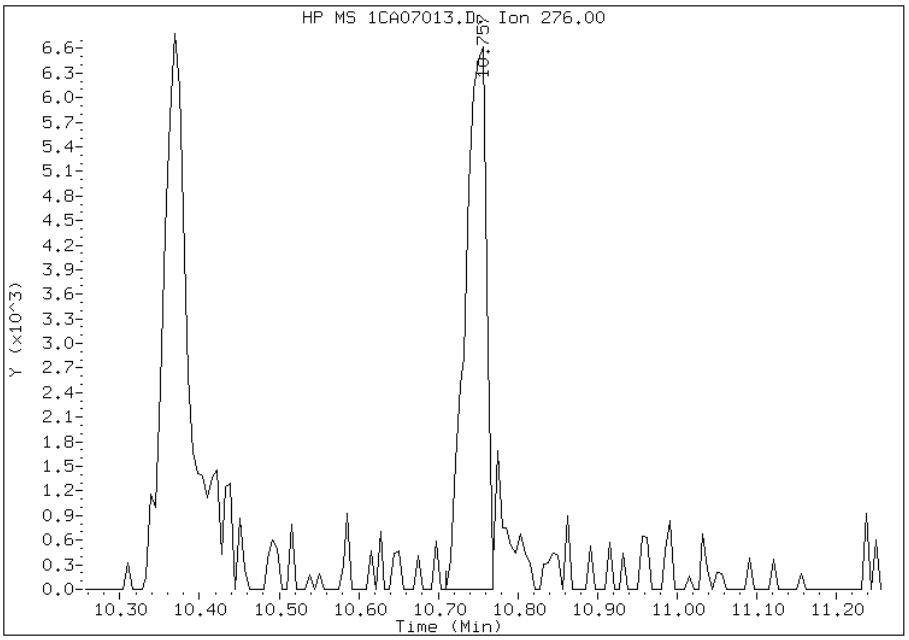
Processing Integration Results

RT: 10.76

Response: 12183

Amount: 0

Conc: 0



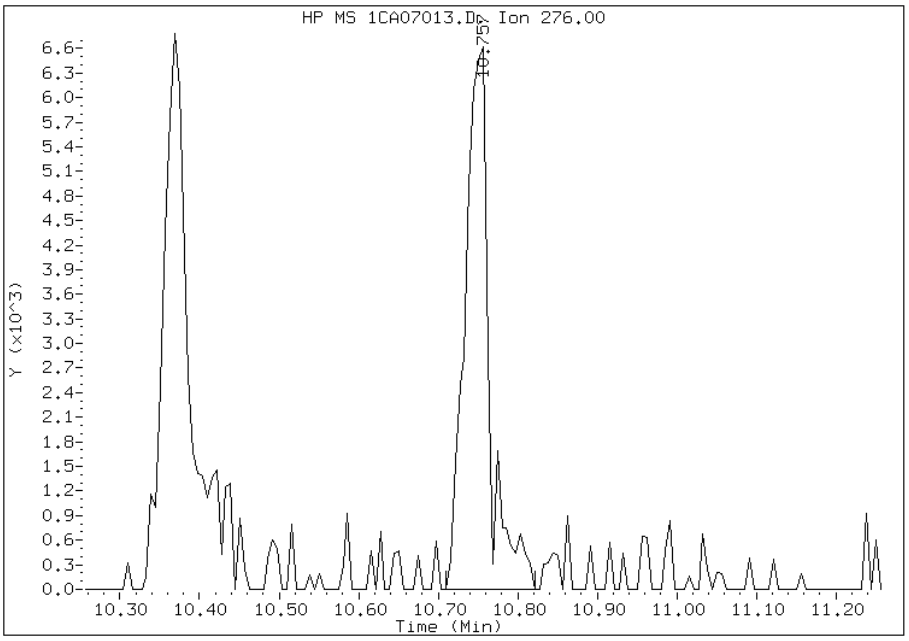
Manual Integration Results

RT: 10.76

Response: 14123

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07014.D
Lab Smp Id: IC-1489895
Inj Date : 07-JAN-2013 15:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:23 Cal File: 1CA07013.D
Als bottle: 14 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	3.868	3.868	(1.000)	2071724	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1544247	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2952062	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	41244	1.00000	0.9535
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3465163	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3457962	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	49180	1.00000	0.8958(Q)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	35101	1.00000	0.9833
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	27760	1.00000	0.8550
5 Acenaphthylene	152	4.868	4.868	(0.982)	55638	1.00000	0.9056
7 Acenaphthene	154	4.974	4.974	(1.004)	39694	1.00000	1.0301
9 Fluorene	166	5.298	5.298	(1.069)	46551	1.00000	0.9411
11 Phenanthrene	178	5.933	5.933	(1.003)	87138	1.00000	0.9888
12 Anthracene	178	5.962	5.962	(1.008)	73594	1.00000	0.9269
13 Carbazole	167	6.074	6.074	(1.027)	63677	1.00000	0.9233
15 Fluoranthene	202	6.774	6.774	(1.145)	79223	1.00000	0.9201
16 Pyrene	202	6.945	6.945	(0.883)	87607	1.00000	0.9496
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	86510	1.00000	0.9053
19 Chrysene	228	7.886	7.886	(1.002)	104834	1.00000	1.0620(M)
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	75135	1.00000	0.8862
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	82752	1.00000	0.8860
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	73092	1.00000	0.9060
24 Indeno(1,2,3-cd)pyrene	276	10.362	10.362	(1.138)	41666	1.00000	0.6078(M)
25 Dibenzo(a,h)anthracene	278	10.380	10.380	(1.139)	67472	1.00000	0.9234(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	68360	1.00000	0.8685(M)

QC Flag Legend

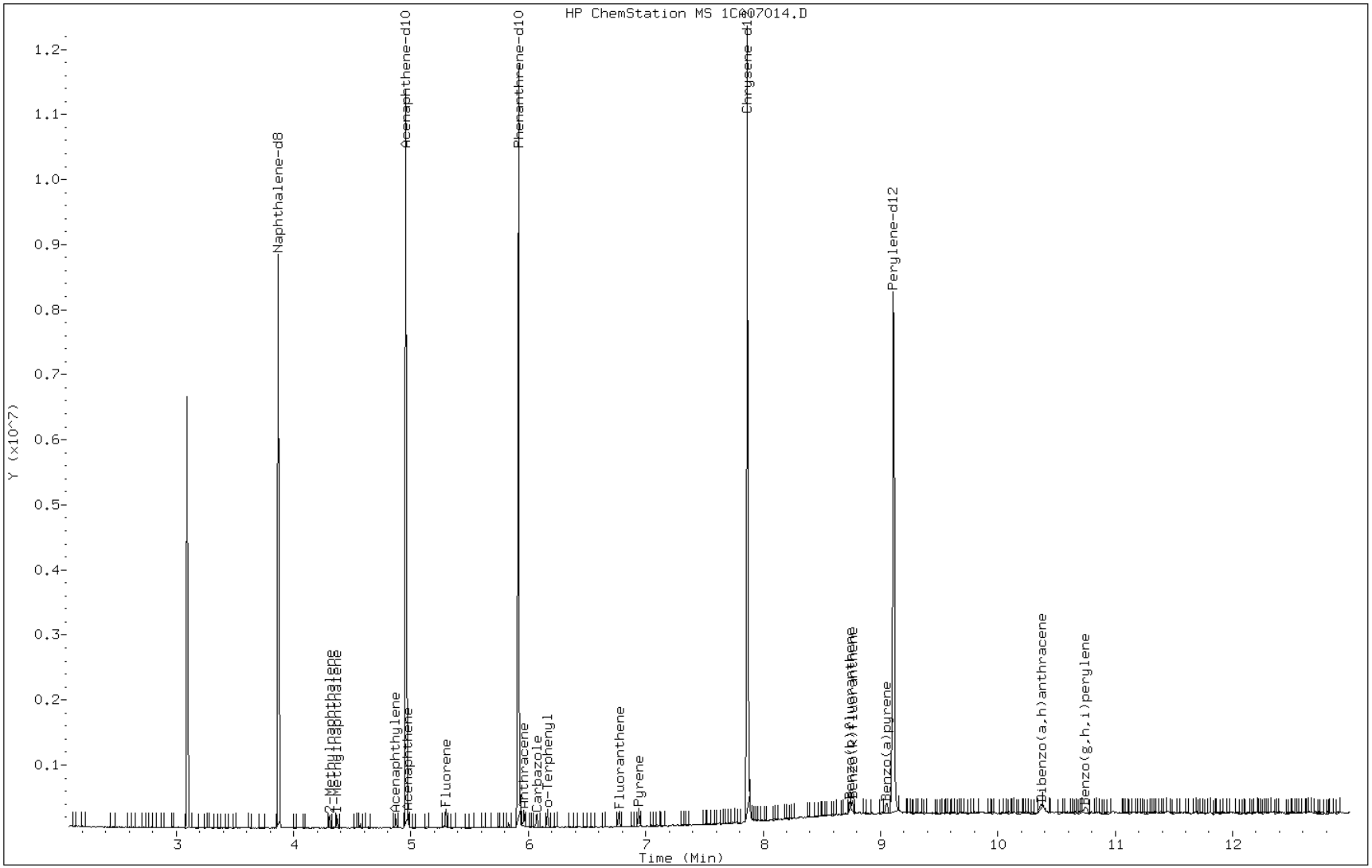
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07014.D

Date: 07-JAN-2013 15:41

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 01/08/2013

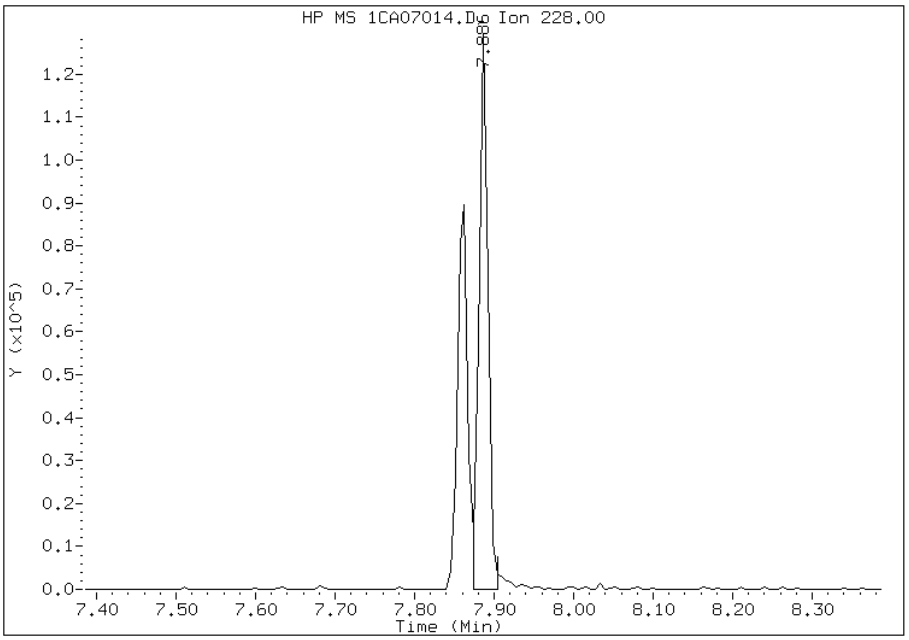
Processing Integration Results

RT: 7.89

Response: 101100

Amount: 1

Conc: 1



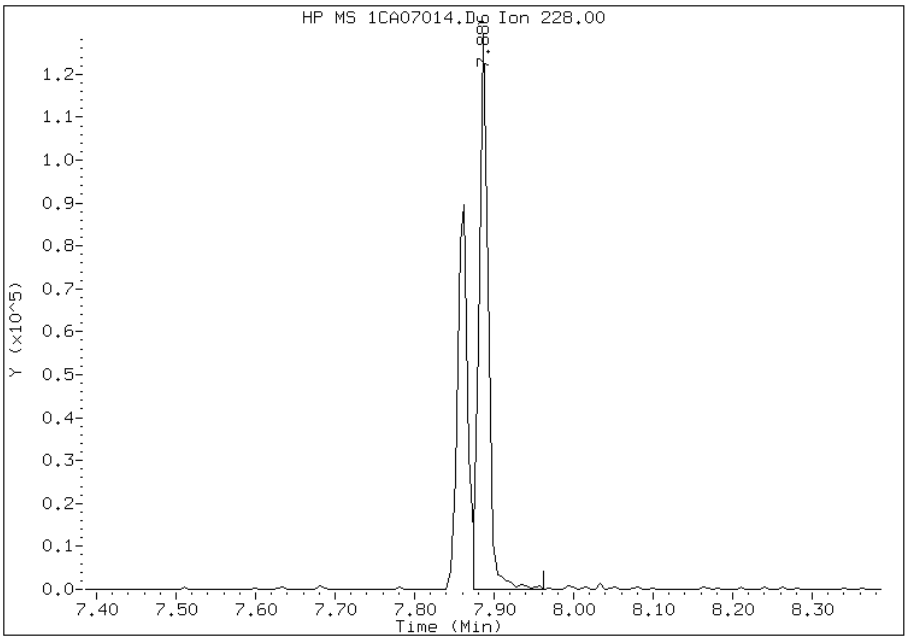
Manual Integration Results

RT: 7.89

Response: 104834

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

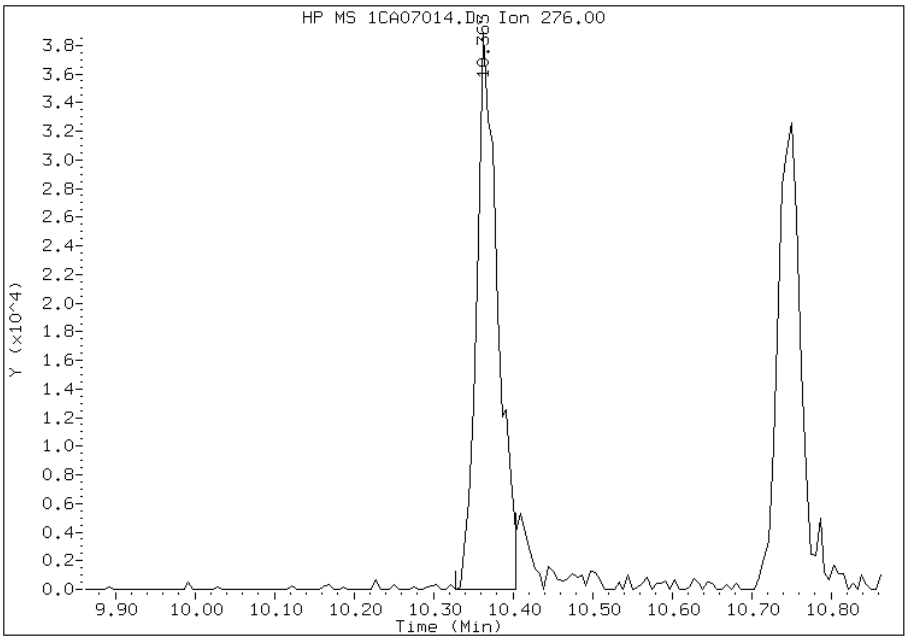
Processing Integration Results

RT: 10.36

Response: 72270

Amount: 1

Conc: 1



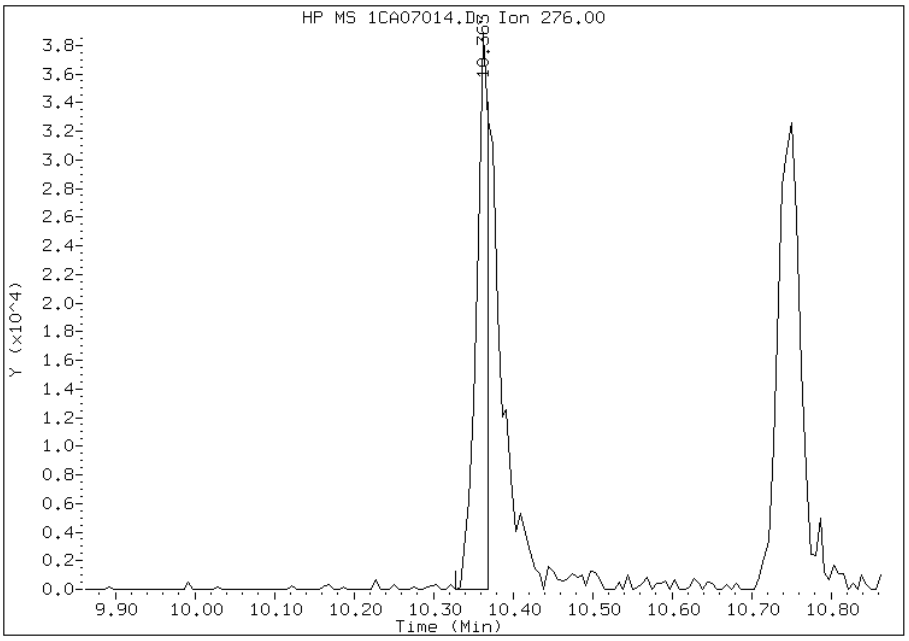
Manual Integration Results

RT: 10.36

Response: 41666

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

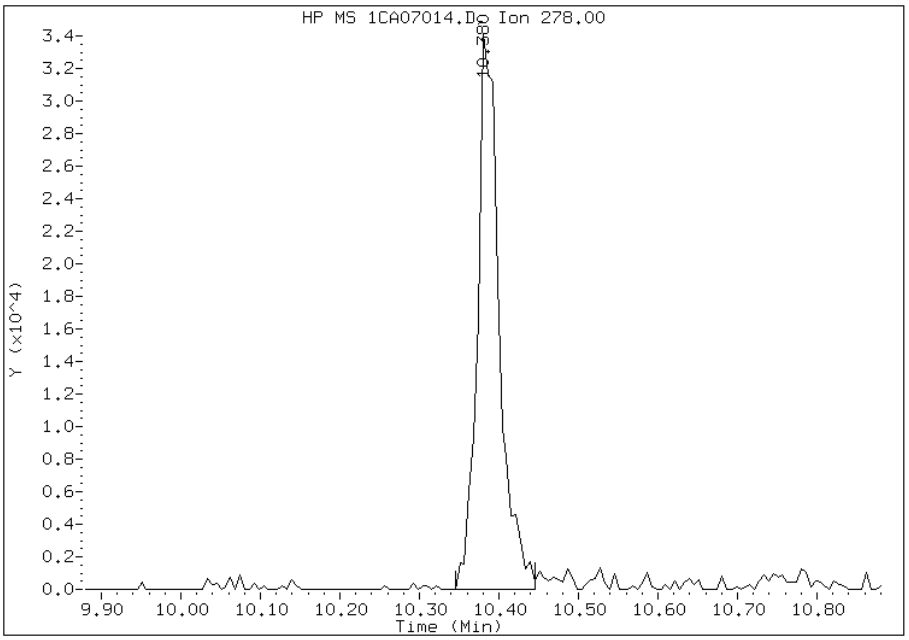
Processing Integration Results

RT: 10.38

Response: 65243

Amount: 1

Conc: 1



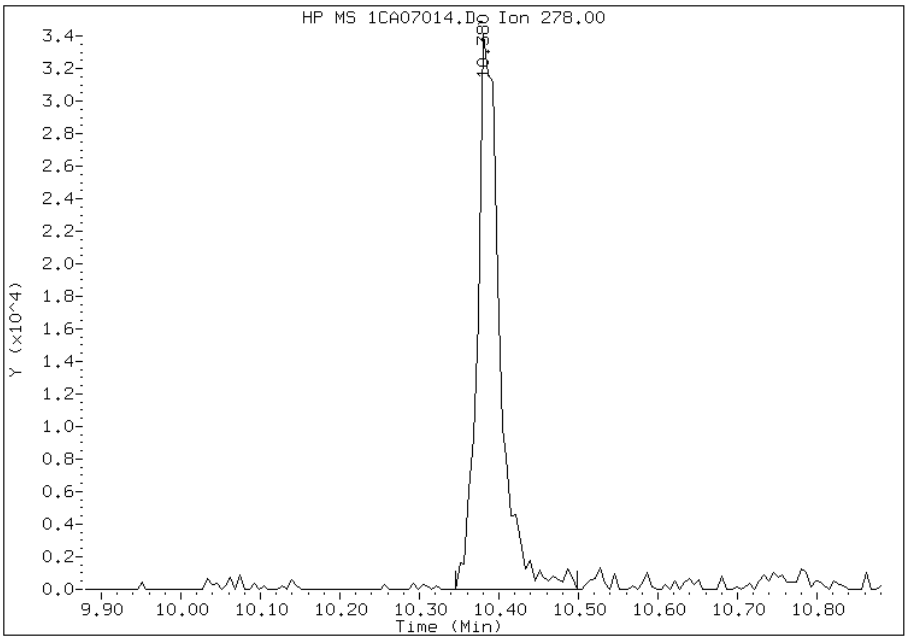
Manual Integration Results

RT: 10.38

Response: 67472

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

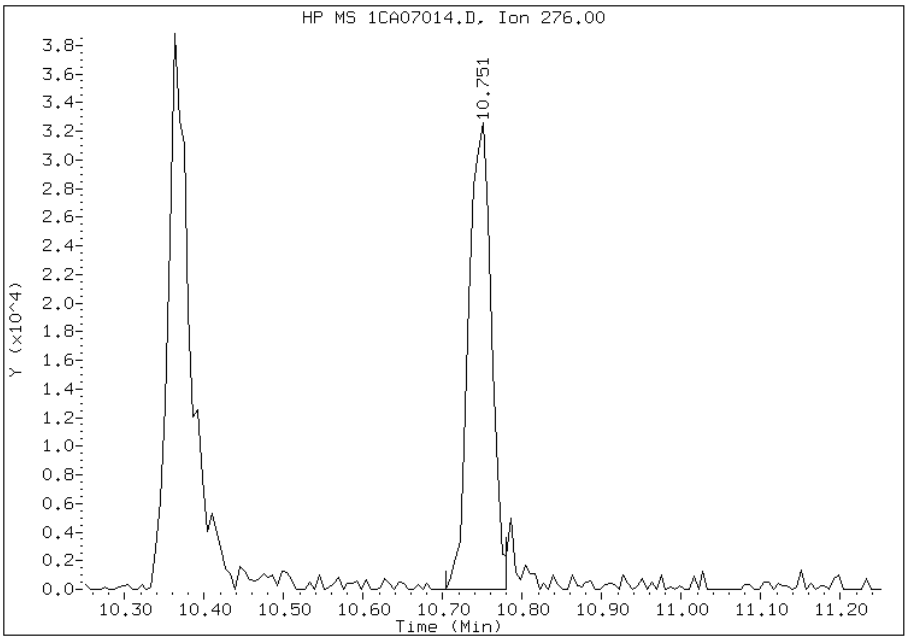
Processing Integration Results

RT: 10.75

Response: 64475

Amount: 1

Conc: 1



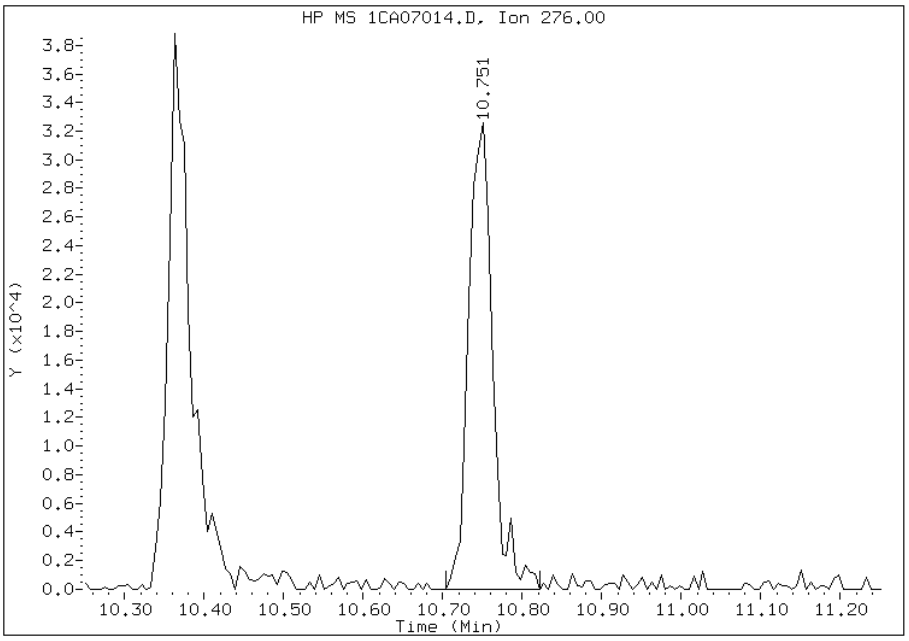
Manual Integration Results

RT: 10.75

Response: 68360

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07015.D
Lab Smp Id: IC-1489896
Inj Date : 07-JAN-2013 15:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:41 Cal File: 1CA07014.D
Als bottle: 15 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	3.869	3.869	(1.000)	2027501	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1502475	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2830661	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	209857	5.00000	5.0597
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3347096	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3463066	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	279616	5.00000	5.2044
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	167348	5.00000	4.7904
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	160060	5.00000	5.0377
5 Acenaphthylene	152	4.869	4.869	(0.982)	277566	5.00000	4.6435
7 Acenaphthene	154	4.974	4.974	(1.004)	177622	5.00000	4.7378
9 Fluorene	166	5.298	5.298	(1.069)	229328	5.00000	4.7653
11 Phenanthrene	178	5.927	5.927	(1.002)	382657	5.00000	4.5288
12 Anthracene	178	5.963	5.963	(1.008)	377684	5.00000	4.9613
13 Carbazole	167	6.074	6.074	(1.027)	311754	5.00000	4.7146
15 Fluoranthene	202	6.774	6.774	(1.145)	411201	5.00000	4.9805
16 Pyrene	202	6.945	6.945	(0.883)	444176	5.00000	4.9847
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	435113	5.00000	4.7140
19 Chrysene	228	7.886	7.886	(1.002)	465452	5.00000	4.8819
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	409334	5.00000	4.8211
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	463057	5.00000	4.9506
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	394642	5.00000	4.8847
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	352250	5.00000	5.1308(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	352888	5.00000	4.8224(M)
26 Benzo(g,h,i)perylene	276	10.751	10.751	(1.180)	397056	5.00000	5.0373(M)

QC Flag Legend

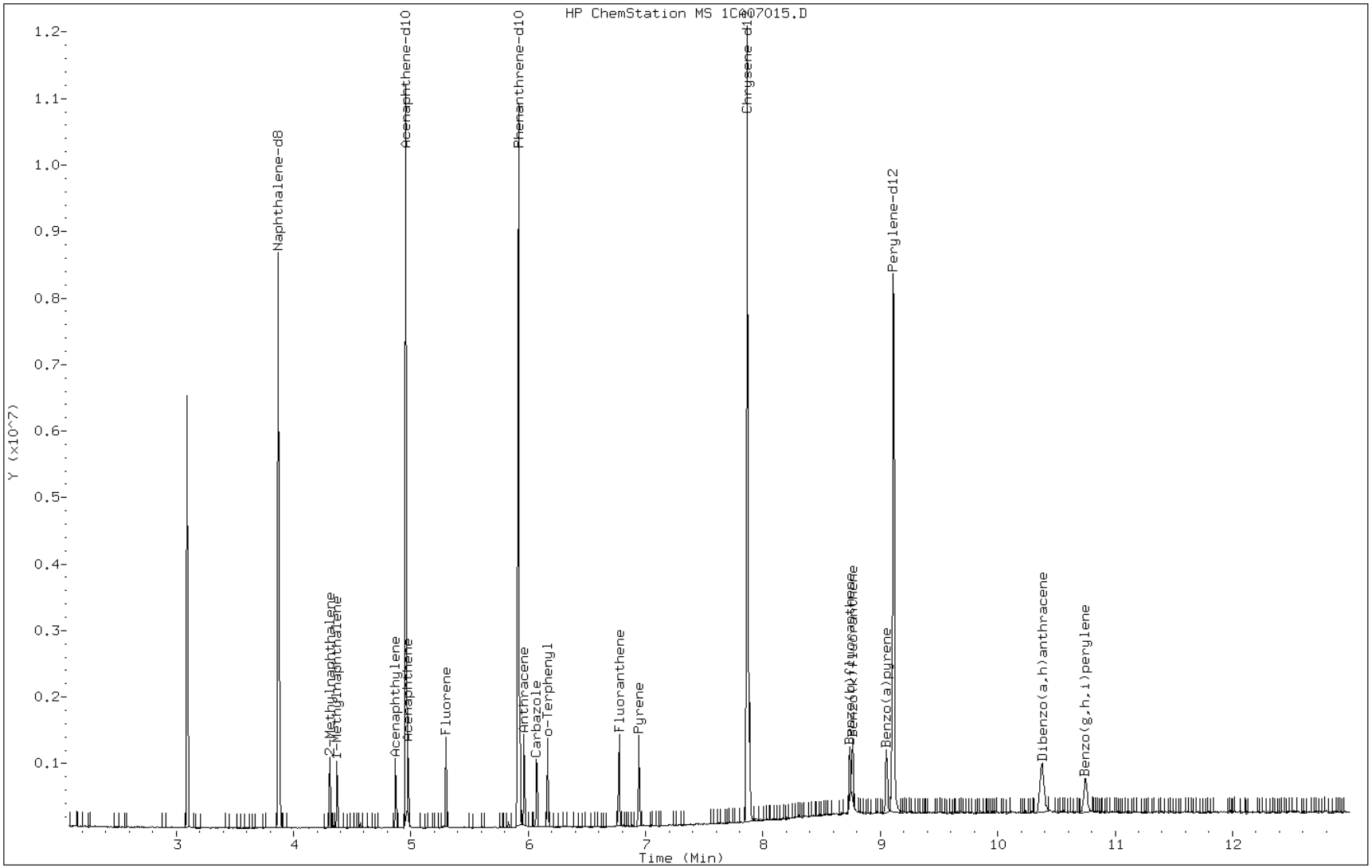
M - Compound response manually integrated.

Data File: 1CA07015.D

Date: 07-JAN-2013 15:59

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489896 Operator: SCC



Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

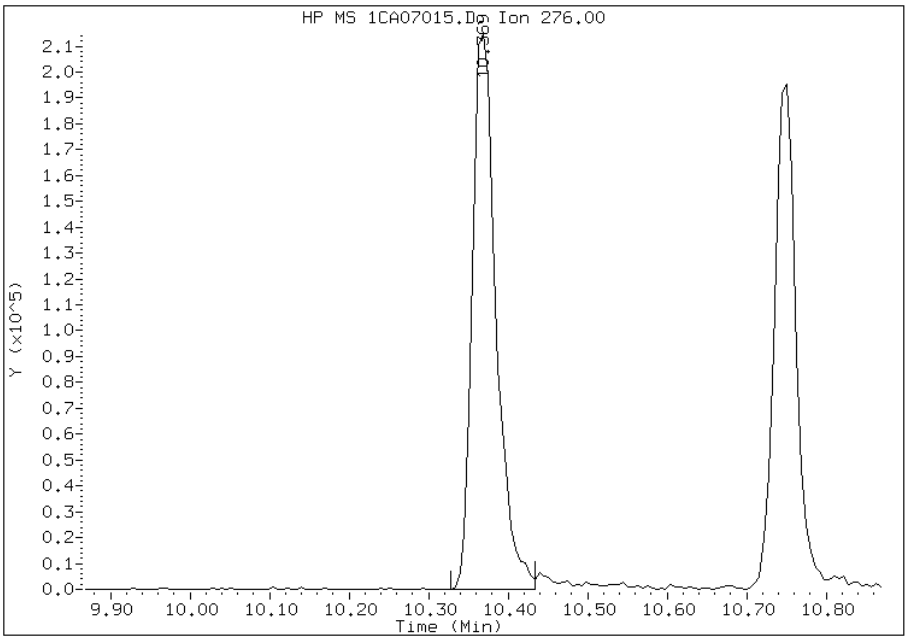
Processing Integration Results

RT: 10.37

Response: 445493

Amount: 6

Conc: 6



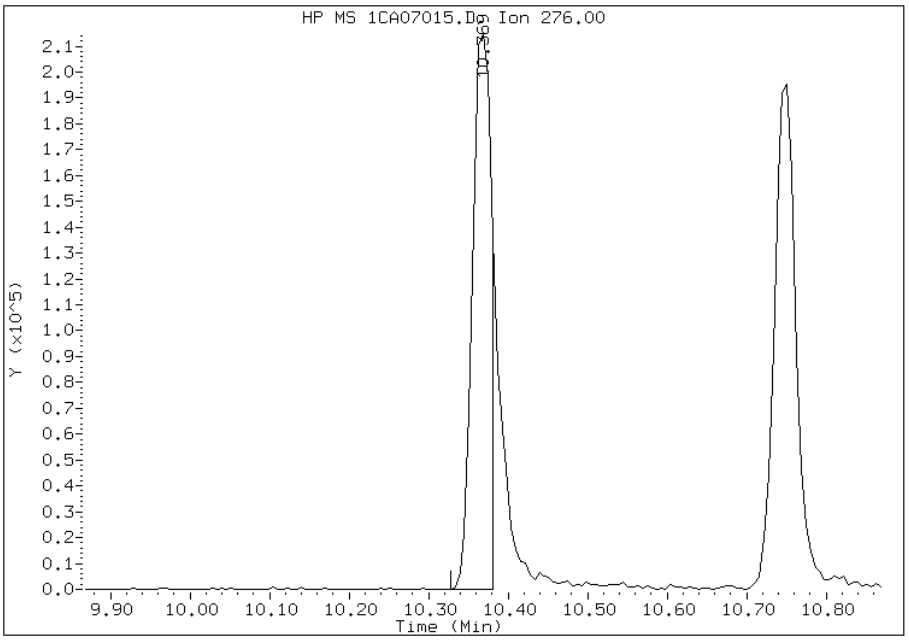
Manual Integration Results

RT: 10.37

Response: 352250

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

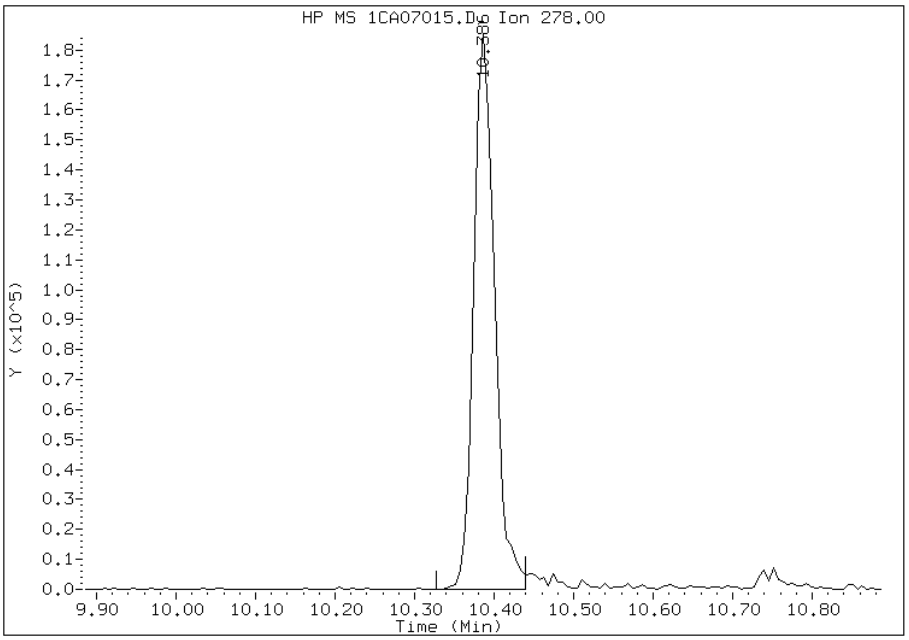
Processing Integration Results

RT: 10.39

Response: 335936

Amount: 5

Conc: 5



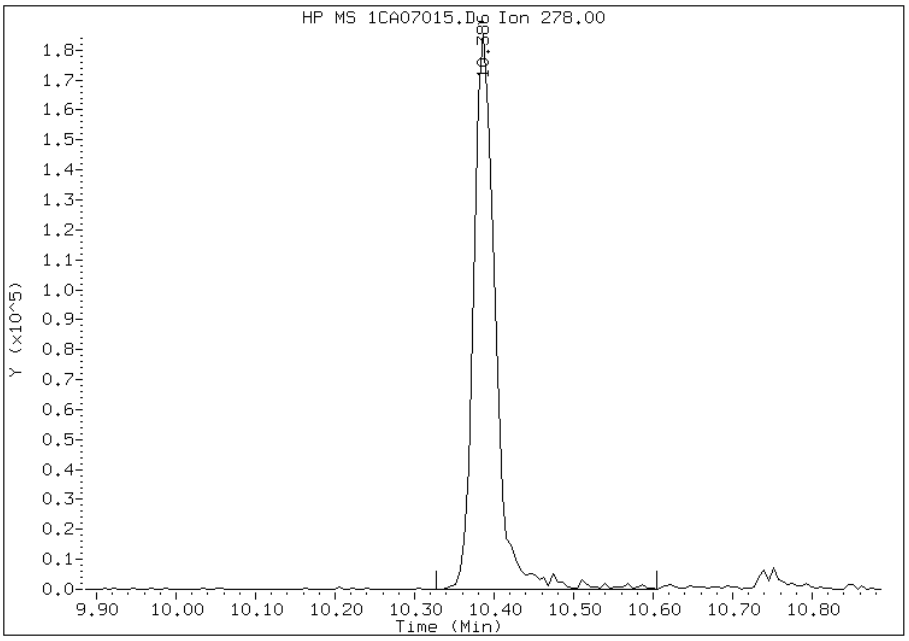
Manual Integration Results

RT: 10.39

Response: 352888

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

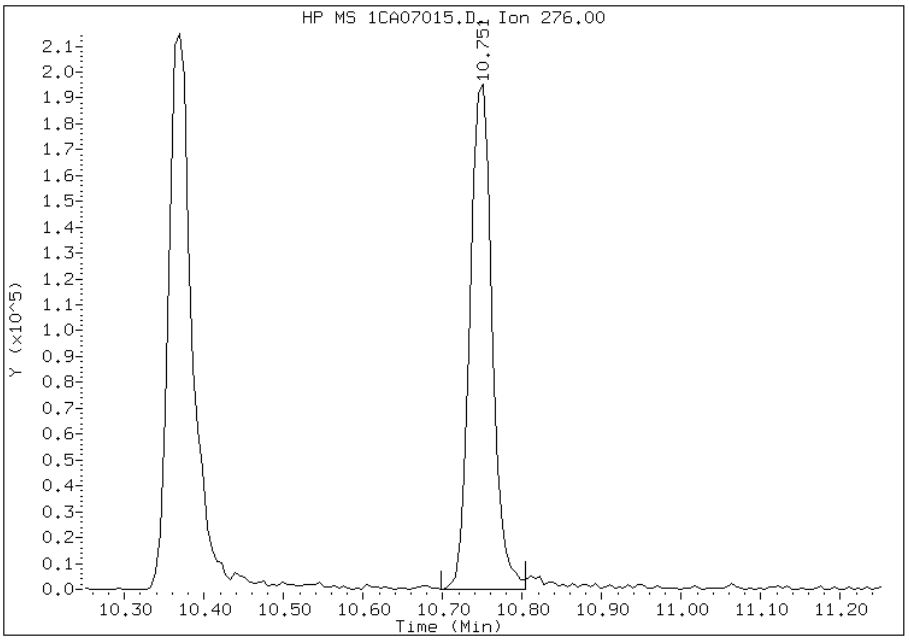
Processing Integration Results

RT: 10.75

Response: 377997

Amount: 5

Conc: 5



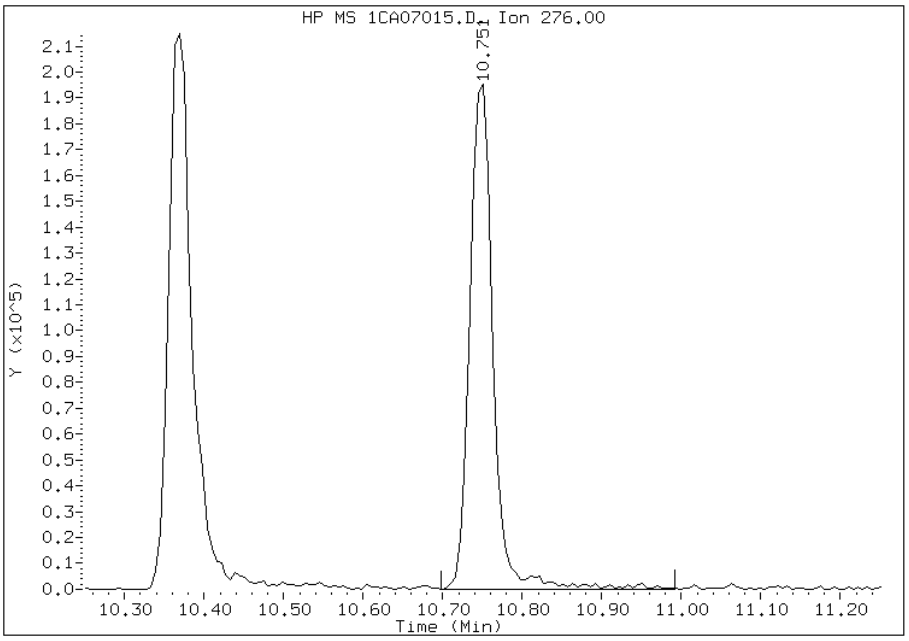
Manual Integration Results

RT: 10.75

Response: 397056

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07016.D
Lab Smp Id: IC-1489897
Inj Date : 07-JAN-2013 16:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:59 Cal File: 1CA07015.D
Als bottle: 16 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	3.868	3.868	(1.000)	2057907	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1506425	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2920094	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	450297	10.0000	10.5243
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3577892	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3583032	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	562439	10.0000	10.3139
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	360991	10.0000	10.1808
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	337071	10.0000	10.4523
5 Acenaphthylene	152	4.868	4.868	(0.982)	597168	10.0000	9.9641
7 Acenaphthene	154	4.974	4.974	(1.004)	380155	10.0000	10.1136
9 Fluorene	166	5.298	5.298	(1.069)	499898	10.0000	10.3604
11 Phenanthrene	178	5.927	5.927	(1.002)	852208	10.0000	9.7771
12 Anthracene	178	5.962	5.962	(1.008)	820090	10.0000	10.4428
13 Carbazole	167	6.068	6.068	(1.026)	704012	10.0000	10.3206
15 Fluoranthene	202	6.774	6.774	(1.145)	893123	10.0000	10.4863
16 Pyrene	202	6.945	6.945	(0.883)	1032505	10.0000	10.8396
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	948119	10.0000	9.6094
19 Chrysene	228	7.886	7.886	(1.002)	1039885	10.0000	10.2033
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	924867	10.0000	10.5284
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	1029821	10.0000	10.6413
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	891772	10.0000	10.6685
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	744949	10.0000	10.4876(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	785898	10.0000	10.3803(M)
26 Benzo(g,h,i)perylene	276	10.744	10.744	(1.179)	865965	10.0000	10.6183(M)

QC Flag Legend

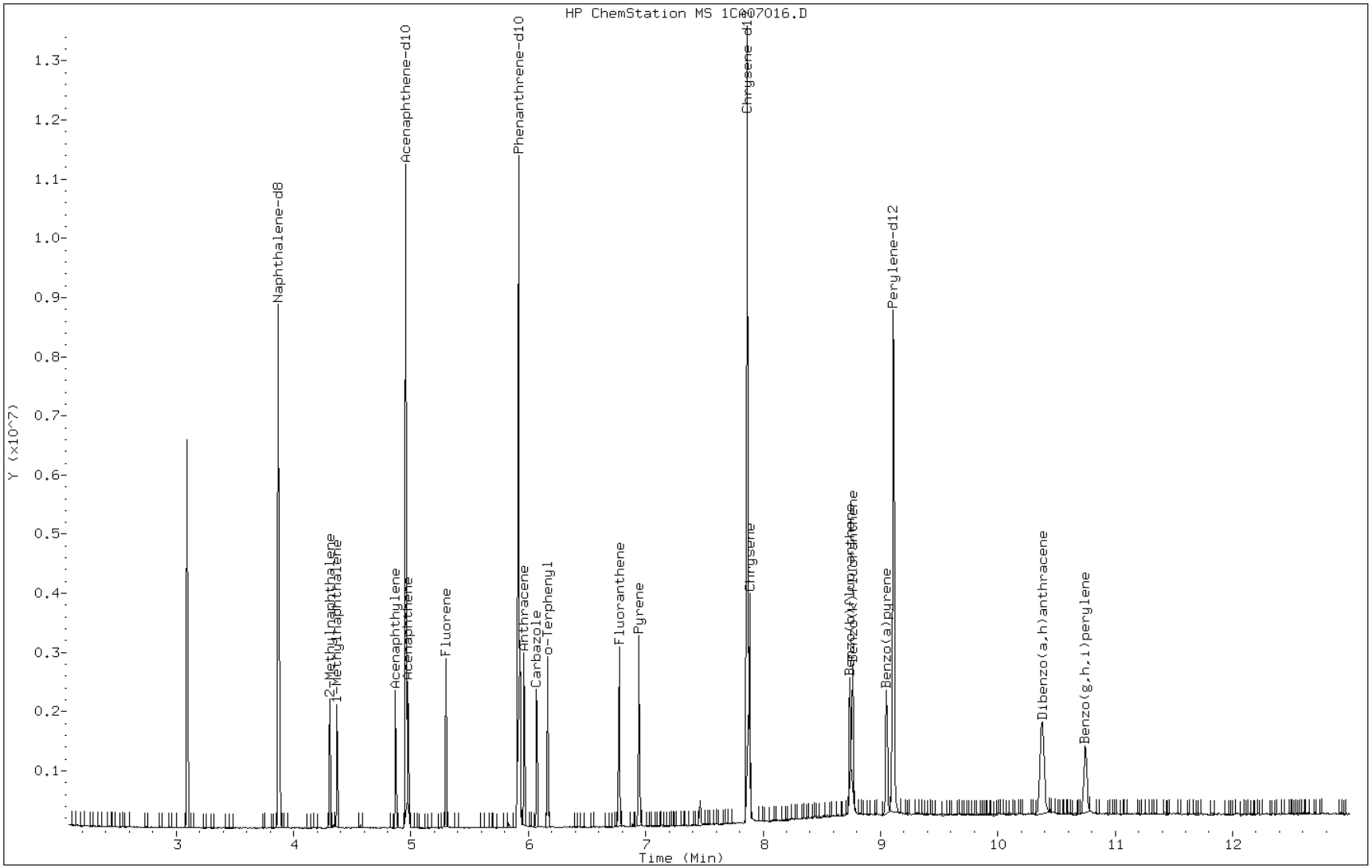
M - Compound response manually integrated.

Data File: 1CA07016.D

Date: 07-JAN-2013 16:18

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

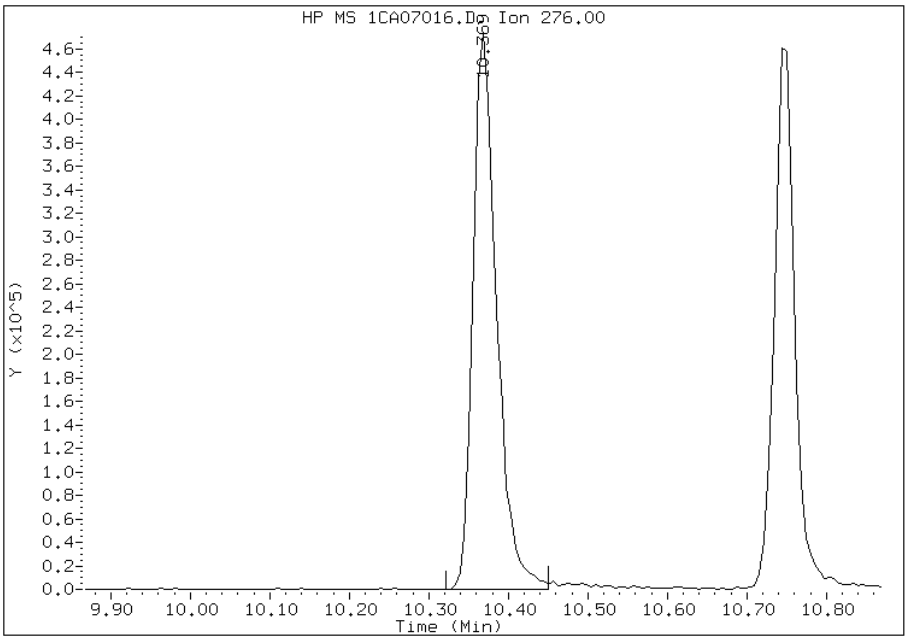
Processing Integration Results

RT: 10.37

Response: 970985

Amount: 12

Conc: 12



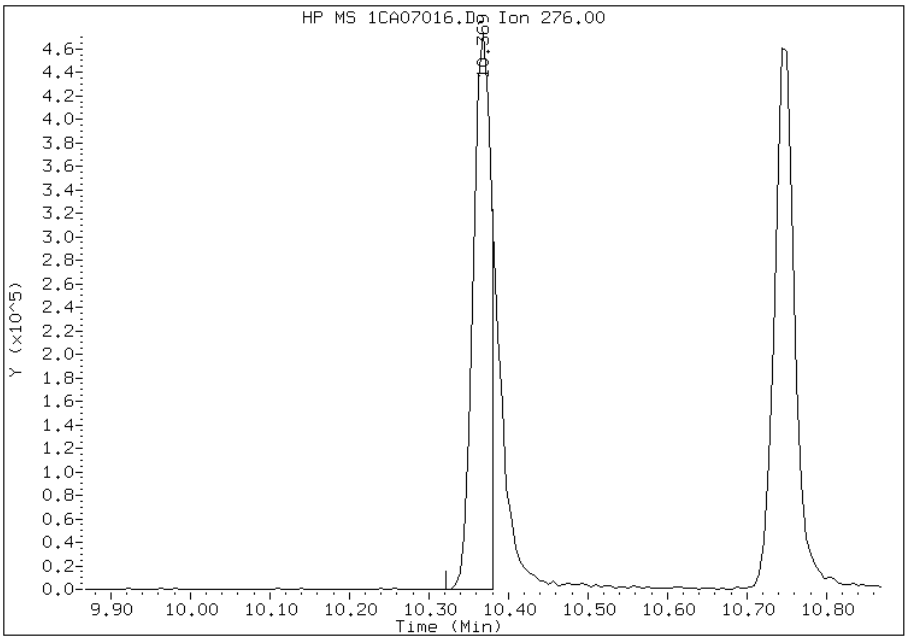
Manual Integration Results

RT: 10.37

Response: 744949

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

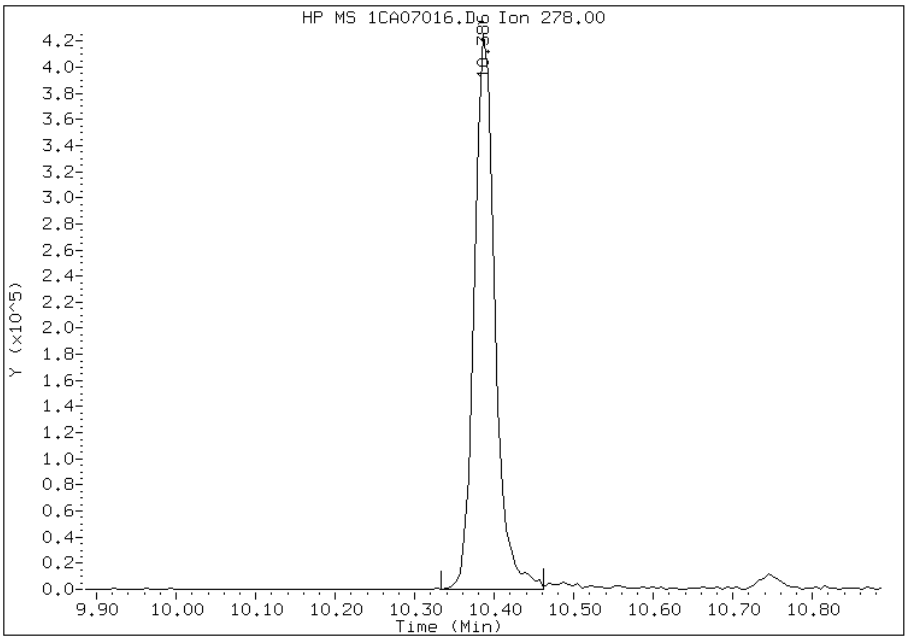
Processing Integration Results

RT: 10.39

Response: 764351

Amount: 10

Conc: 10



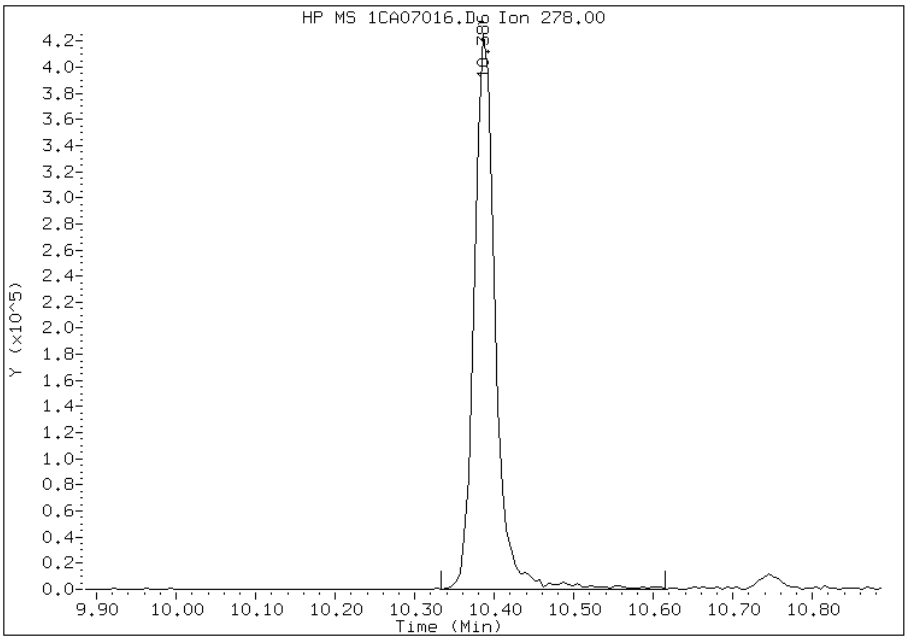
Manual Integration Results

RT: 10.39

Response: 785898

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

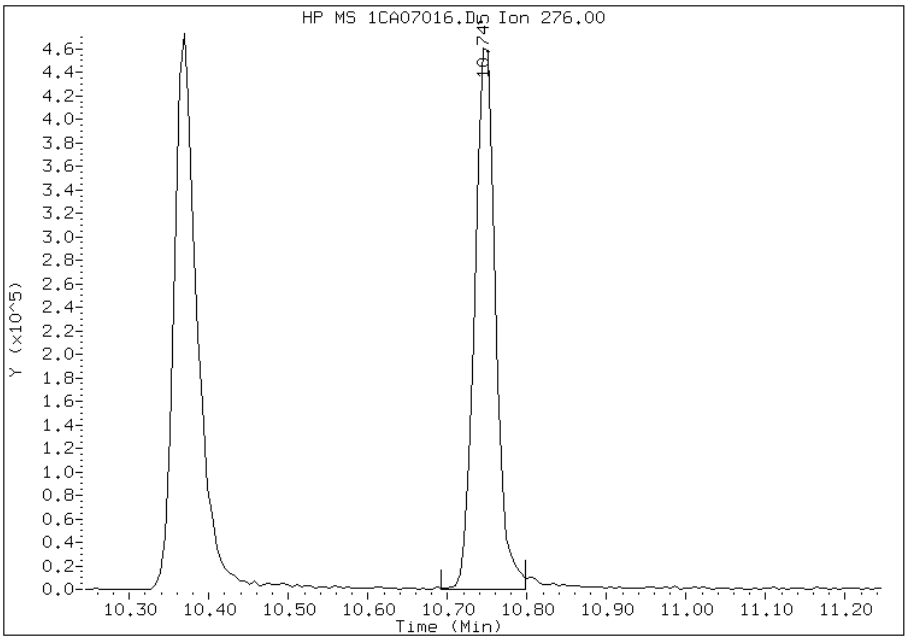
Processing Integration Results

RT: 10.74

Response: 835718

Amount: 10

Conc: 10



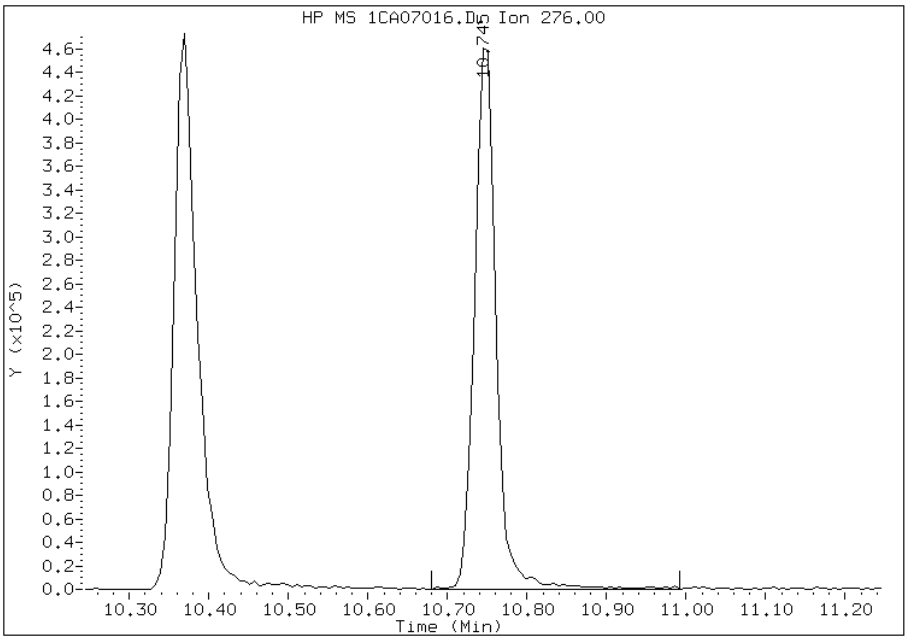
Manual Integration Results

RT: 10.74

Response: 865965

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07017.D
Lab Smp Id: ICIS-1489898
Inj Date : 07-JAN-2013 16:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:18 Cal File: 1CA07016.D
Als bottle: 17 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	3.868	3.868	(1.000)	2194838	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1653478	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	3141284	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	943151	20.0000	20.4912
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3787207	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3790527	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1132608	20.0000	19.4738
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	738557	20.0000	19.5296
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	714057	20.0000	20.7609
5 Acenaphthylene	152	4.868	4.868	(0.982)	1333542	20.0000	20.2720
7 Acenaphthene	154	4.974	4.974	(1.004)	777625	20.0000	18.8479
9 Fluorene	166	5.298	5.298	(1.069)	1052584	20.0000	19.8748
11 Phenanthrene	178	5.927	5.927	(1.002)	1725035	20.0000	18.3973
12 Anthracene	178	5.962	5.962	(1.008)	1722588	20.0000	20.3906
13 Carbazole	167	6.074	6.074	(1.027)	1516911	20.0000	20.6718
15 Fluoranthene	202	6.774	6.774	(1.145)	1958378	20.0000	21.3746
16 Pyrene	202	6.945	6.945	(0.883)	2128584	20.0000	21.1117
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	1936797	20.0000	18.5450
19 Chrysene	228	7.886	7.886	(1.002)	2079538	20.0000	19.2766
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	1891292	20.0000	20.3514
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	2181246	20.0000	21.3054
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	1856241	20.0000	20.9912
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	1706161	20.0000	22.7051(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	1627151	20.0000	20.3153(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	1745002	20.0000	20.2256(M)

QC Flag Legend

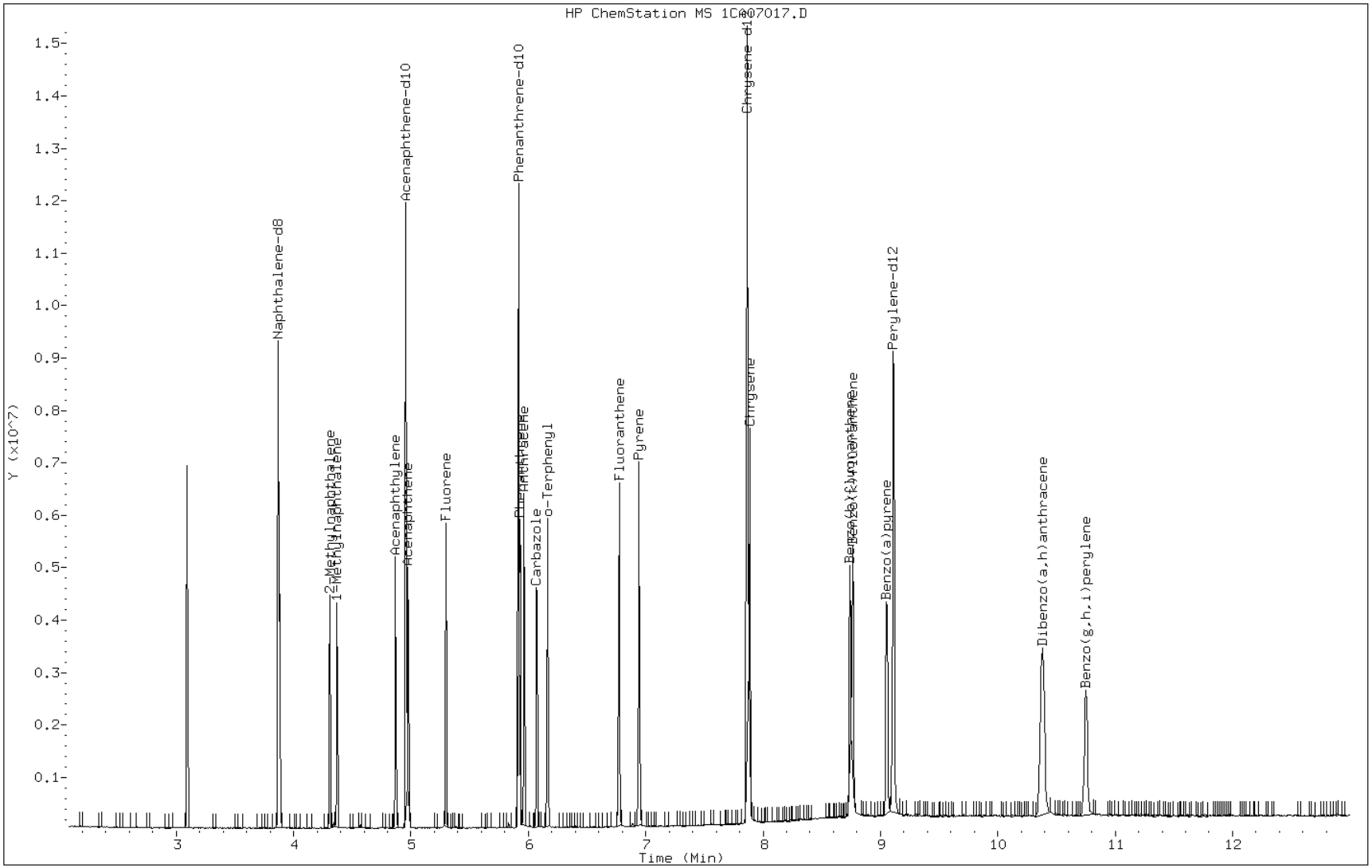
M - Compound response manually integrated.

Data File: 1CA07017.D

Date: 07-JAN-2013 16:36

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

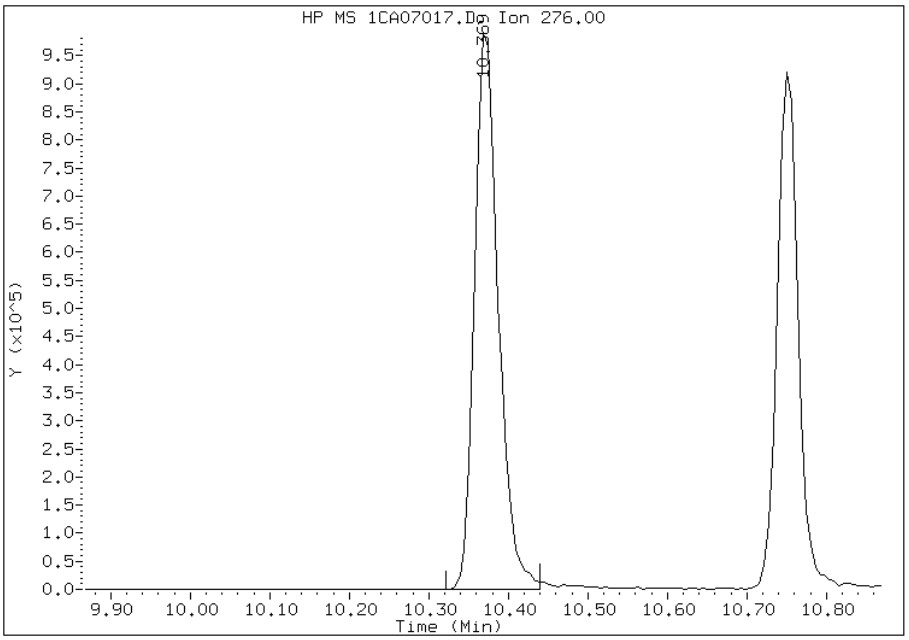
Processing Integration Results

RT: 10.37

Response: 2044337

Amount: 23

Conc: 23



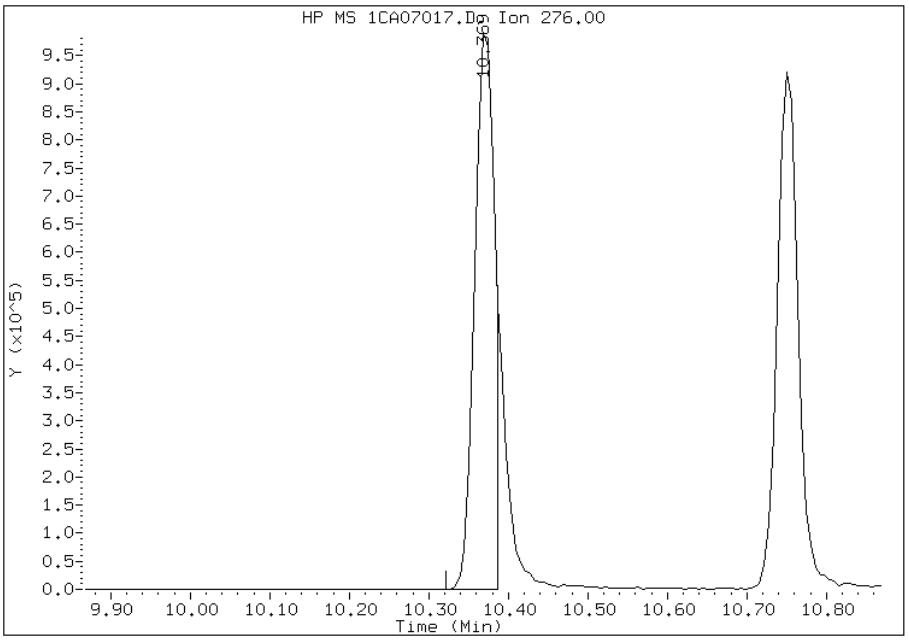
Manual Integration Results

RT: 10.37

Response: 1706161

Amount: 23

Conc: 23



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

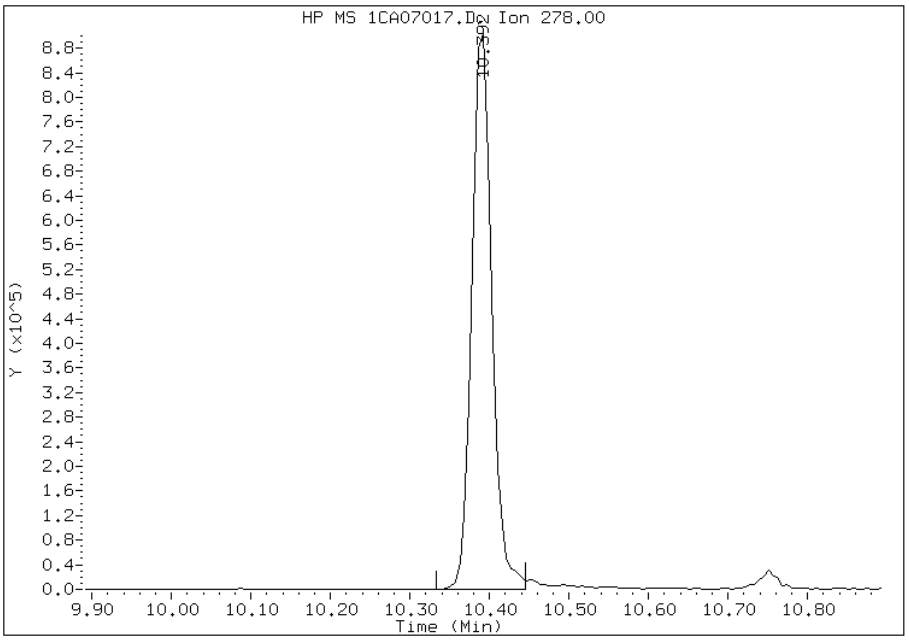
Processing Integration Results

RT: 10.39

Response: 1569221

Amount: 19

Conc: 19



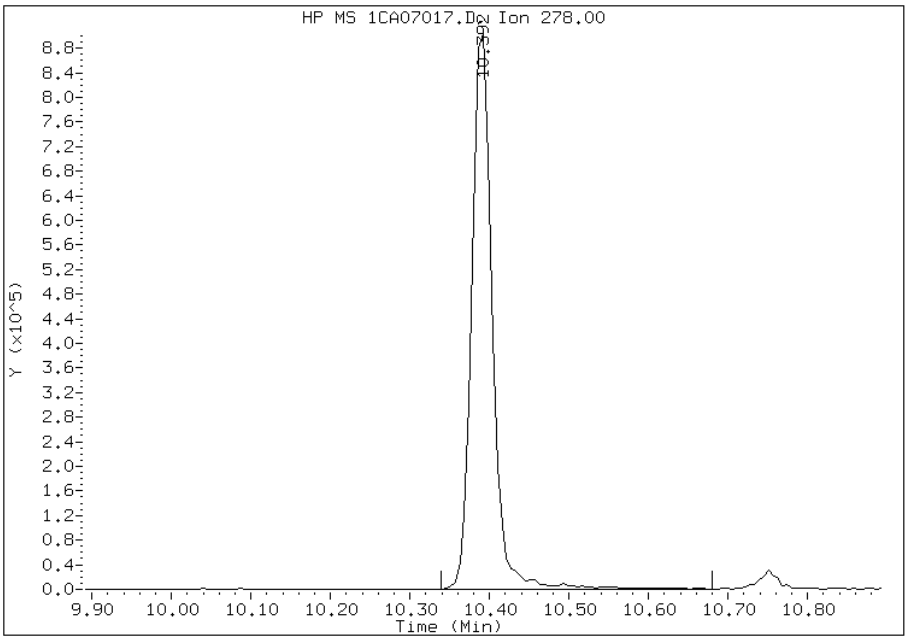
Manual Integration Results

RT: 10.39

Response: 1627151

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

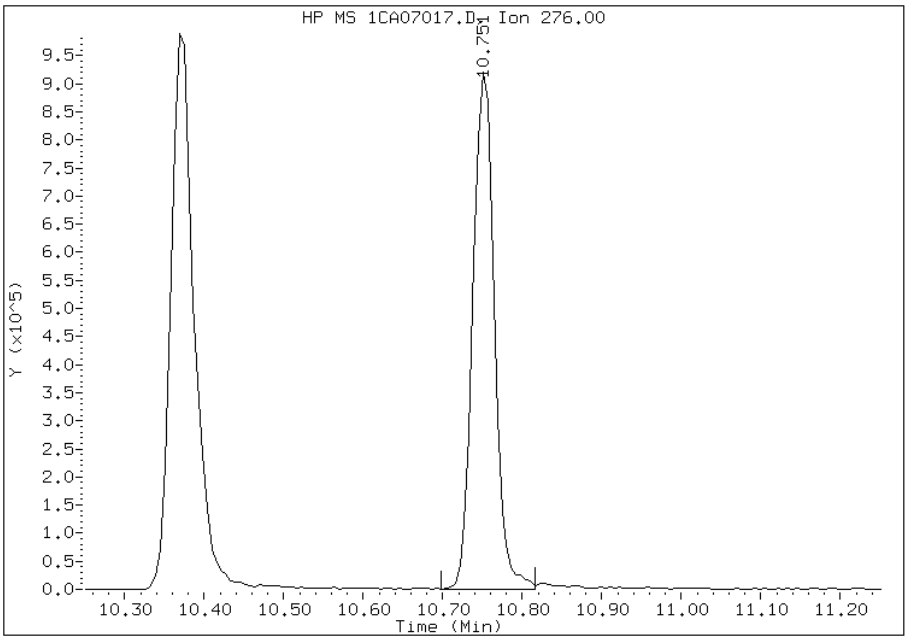
Processing Integration Results

RT: 10.75

Response: 1711397

Amount: 19

Conc: 19



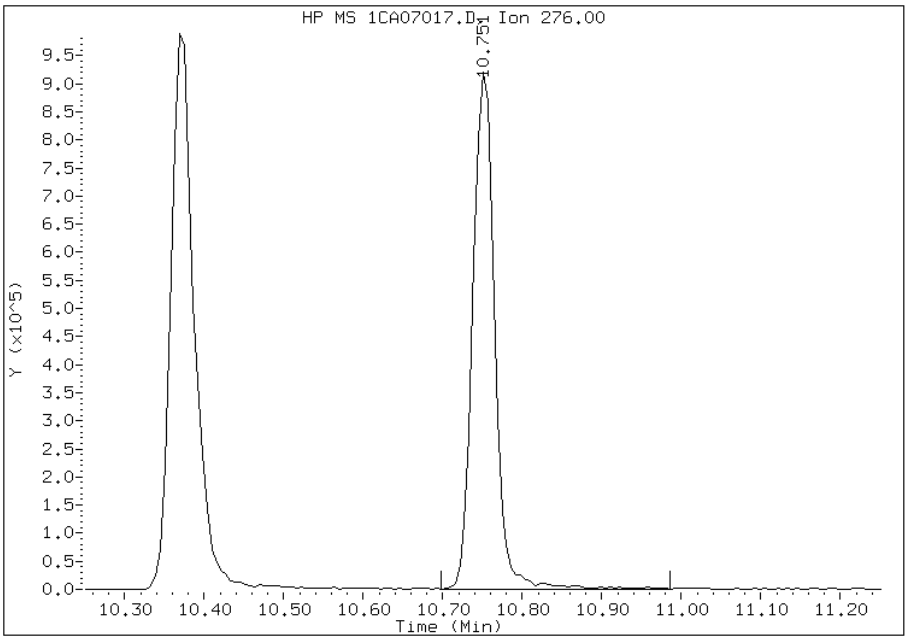
Manual Integration Results

RT: 10.75

Response: 1745002

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07018.D
Lab Smp Id: IC-1489899
Inj Date : 07-JAN-2013 16:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:36 Cal File: 1CA07017.D
Als bottle: 18 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	3.869	3.869	(1.000)	2206384	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1682844	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	3224181	40.0000	
$ 14 o-Terphenyl	230	6.169	6.169	(1.043)	1447125	30.0000	30.6324
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3659777	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3629385	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1744899	30.0000	29.8445
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1125305	30.0000	29.6006
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1099203	30.0000	31.7916
5 Acenaphthylene	152	4.869	4.869	(0.982)	2078096	30.0000	31.0392
7 Acenaphthene	154	4.974	4.974	(1.004)	1212087	30.0000	28.8657
9 Fluorene	166	5.298	5.298	(1.069)	1642686	30.0000	30.4758
11 Phenanthrene	178	5.927	5.927	(1.002)	2725408	30.0000	28.3189
12 Anthracene	178	5.963	5.963	(1.008)	2681981	30.0000	30.9308
13 Carbazole	167	6.074	6.074	(1.027)	2392859	30.0000	31.7704
15 Fluoranthene	202	6.774	6.774	(1.145)	2977438	30.0000	31.6615
16 Pyrene	202	6.945	6.945	(0.883)	3254878	30.0000	33.4065
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	2964525	30.0000	29.3740
19 Chrysene	228	7.886	7.886	(1.002)	3031738	30.0000	29.0818
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	2773683	30.0000	31.1717
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	3267104	30.0000	33.3285
22 Benzo(a)pyrene	252	9.057	9.057	(0.994)	2808161	30.0000	33.1659
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.139)	2564602	30.0000	35.6443(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	2451088	30.0000	31.9610
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	2713188	30.0000	32.8438

QC Flag Legend

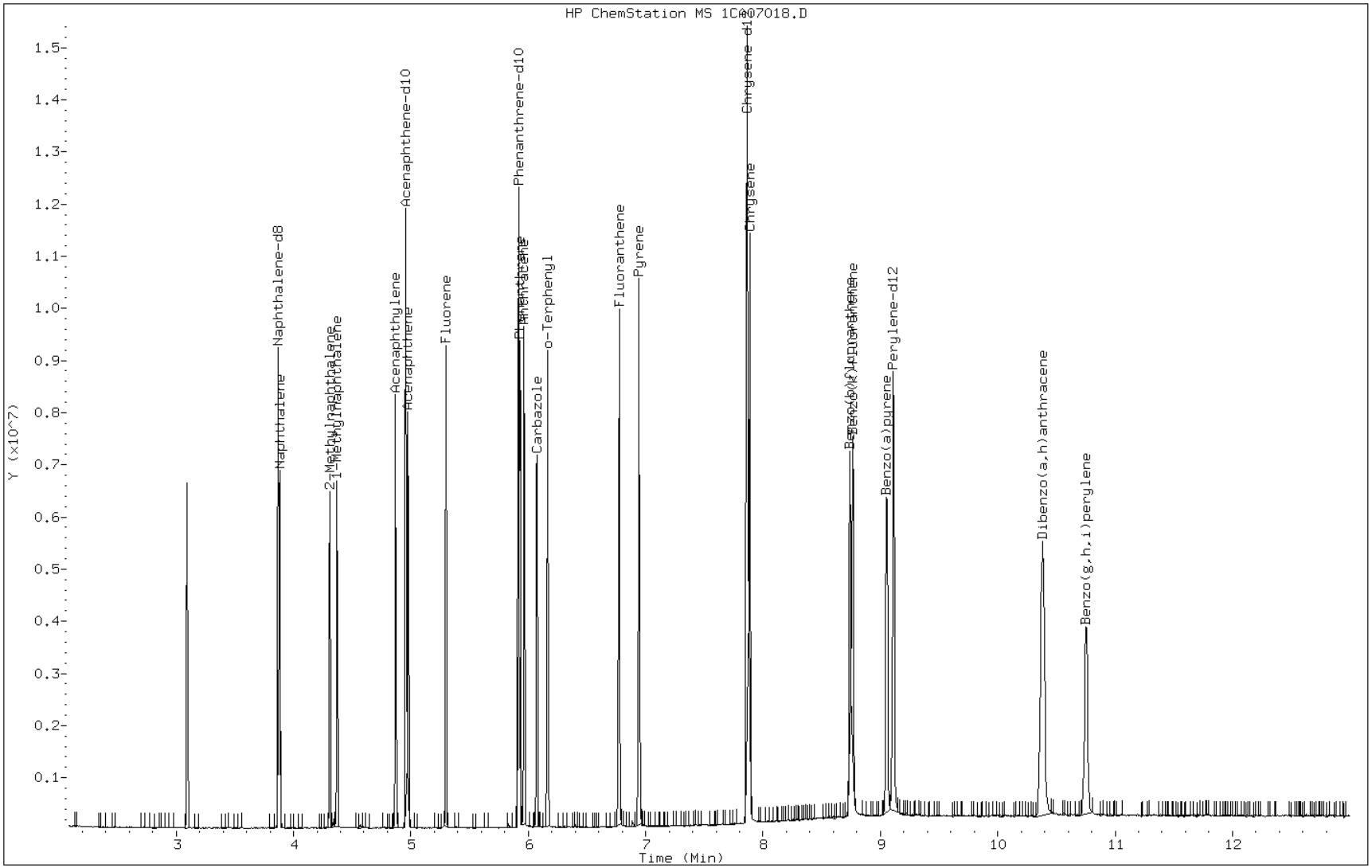
M - Compound response manually integrated.

Data File: 1CA07018.D

Date: 07-JAN-2013 16:54

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489899 Operator: SCC



Manual Integration Report

Data File: 1CA07018.D
Inj. Date and Time: 07-JAN-2013 16:54
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

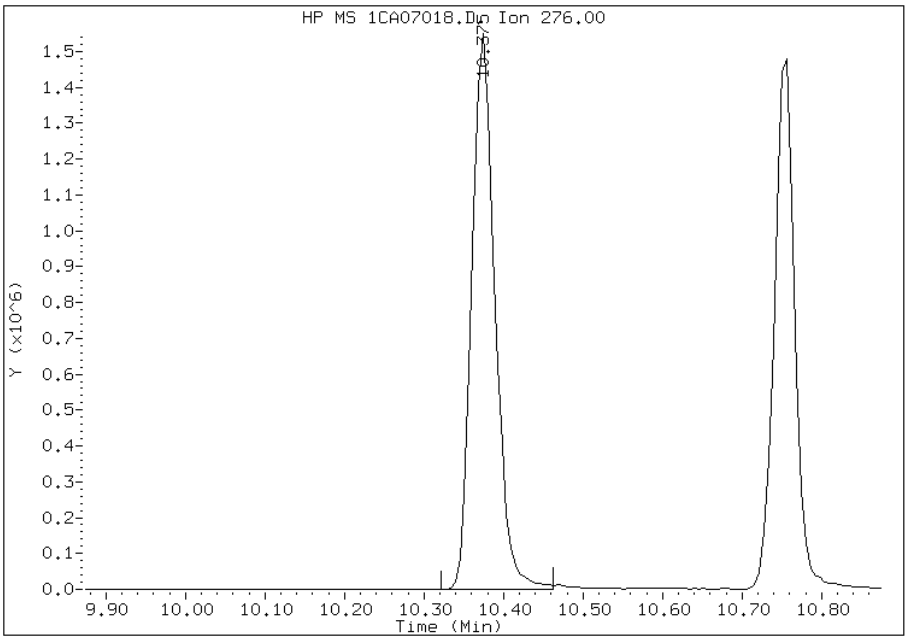
Processing Integration Results

RT: 10.37

Response: 3123860

Amount: 35

Conc: 35



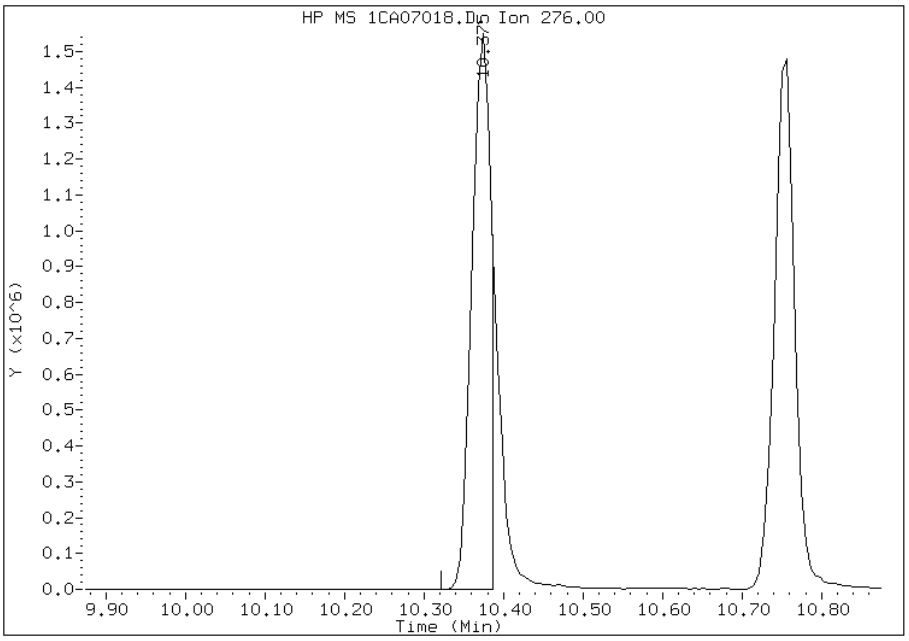
Manual Integration Results

RT: 10.37

Response: 2564602

Amount: 36

Conc: 36



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07019.D
Lab Smp Id: IC-1489900
Inj Date : 07-JAN-2013 17:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:41 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:54 Cal File: 1CA07018.D
Als bottle: 19 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	3.869	3.869	(1.000)	1965517	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1517262	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2863889	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	2145891	50.0000	51.1382(A)
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3447806	40.0000	
* 23 Perylene-d12	264	9.115	9.115	(1.000)	3425001	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	2683662	50.0000	51.5260(A)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1715115	50.0000	50.6441(A)
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1642265	50.0000	53.3190(A)
5 Acenaphthylene	152	4.869	4.869	(0.982)	3143102	50.0000	52.0699(A)
7 Acenaphthene	154	4.974	4.974	(1.004)	1826987	50.0000	48.2578
9 Fluorene	166	5.298	5.298	(1.069)	2448772	50.0000	50.3886(A)
11 Phenanthrene	178	5.933	5.933	(1.003)	3980821	50.0000	46.5673
12 Anthracene	178	5.963	5.963	(1.008)	4020655	50.0000	52.2031(A)
13 Carbazole	167	6.074	6.074	(1.027)	3531798	50.0000	52.7916(A)
15 Fluoranthene	202	6.774	6.774	(1.145)	4473693	50.0000	53.5573(A)
16 Pyrene	202	6.945	6.945	(0.883)	4789001	50.0000	52.1740(A)
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	4538204	50.0000	47.7313
19 Chrysene	228	7.892	7.892	(1.003)	4663655	50.0000	47.4863
20 Benzo(b)fluoranthene	252	8.745	8.745	(0.959)	4834833	50.0000	57.5782(A)
21 Benzo(k)fluoranthene	252	8.768	8.768	(0.962)	4750961	50.0000	51.3578(A)
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	4467973	50.0000	55.9181(A)
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.138)	3772962	50.0000	55.5680(AM)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	3909634	50.0000	54.0220(A)
26 Benzo(g,h,i)perylene	276	10.762	10.762	(1.181)	4151782	50.0000	53.2574(A)

QC Flag Legend

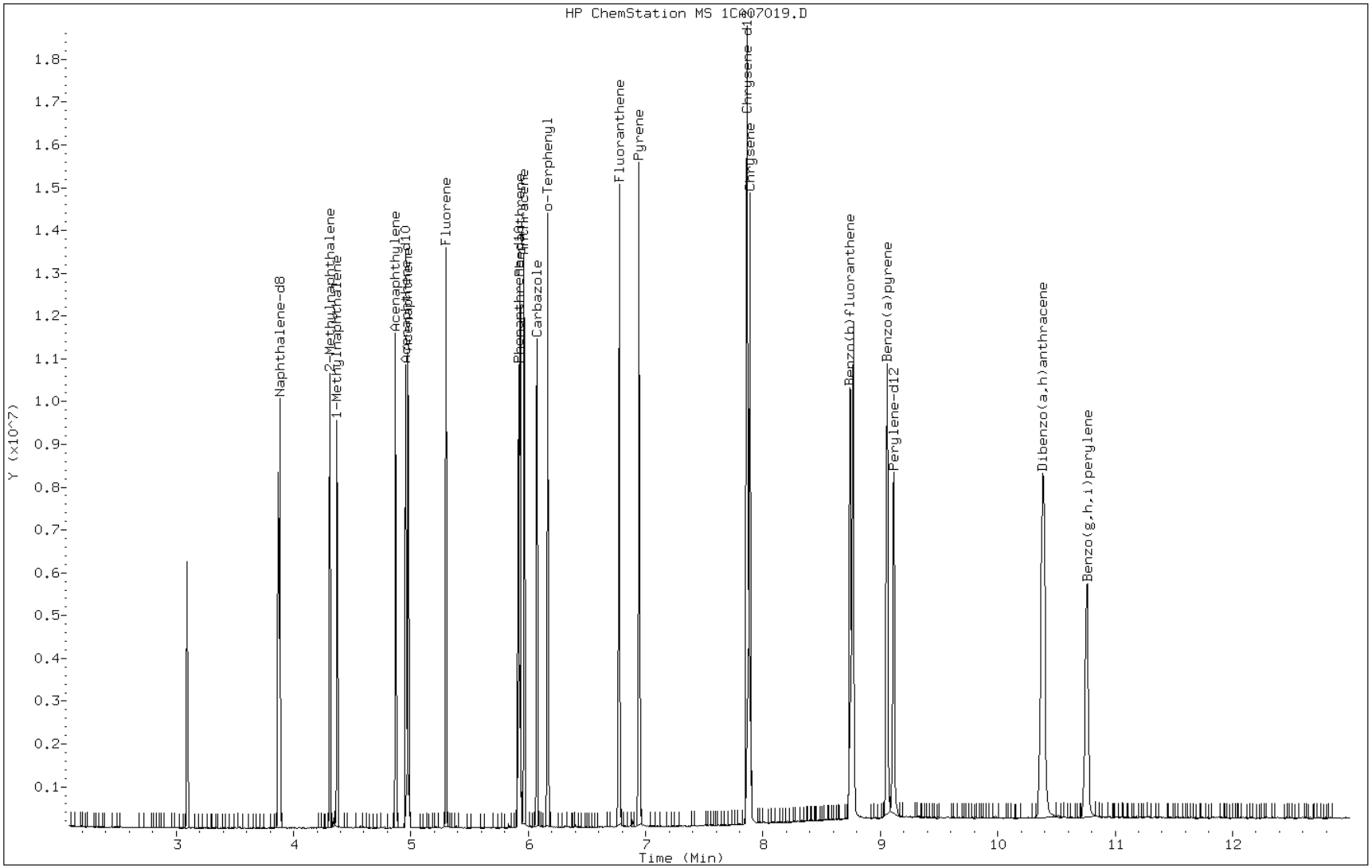
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CA07019.D

Date: 07-JAN-2013 17:13

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489900 Operator: SCC



Manual Integration Report

Data File: 1CA07019.D
Inj. Date and Time: 07-JAN-2013 17:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

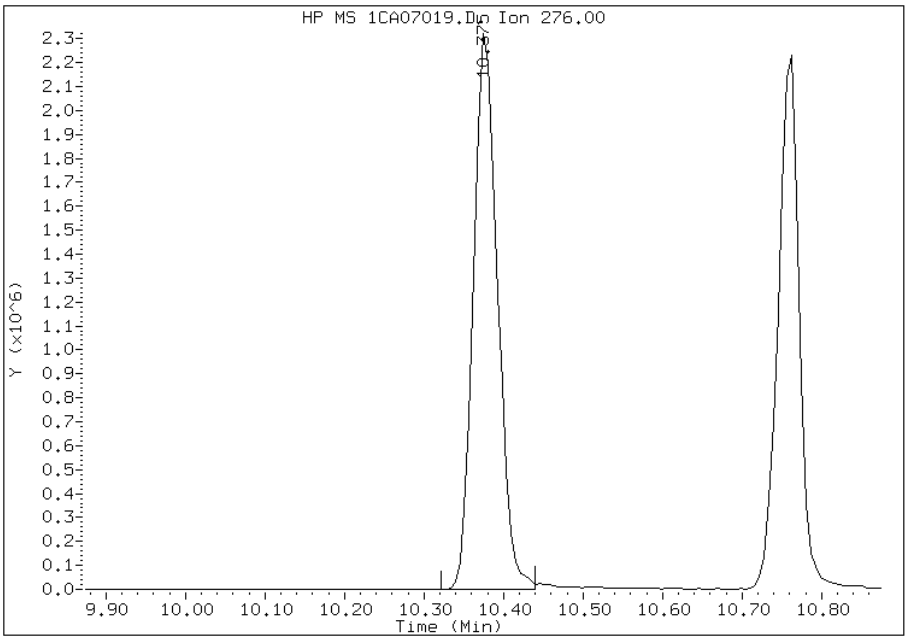
Processing Integration Results

RT: 10.37

Response: 4872897

Amount: 57

Conc: 57



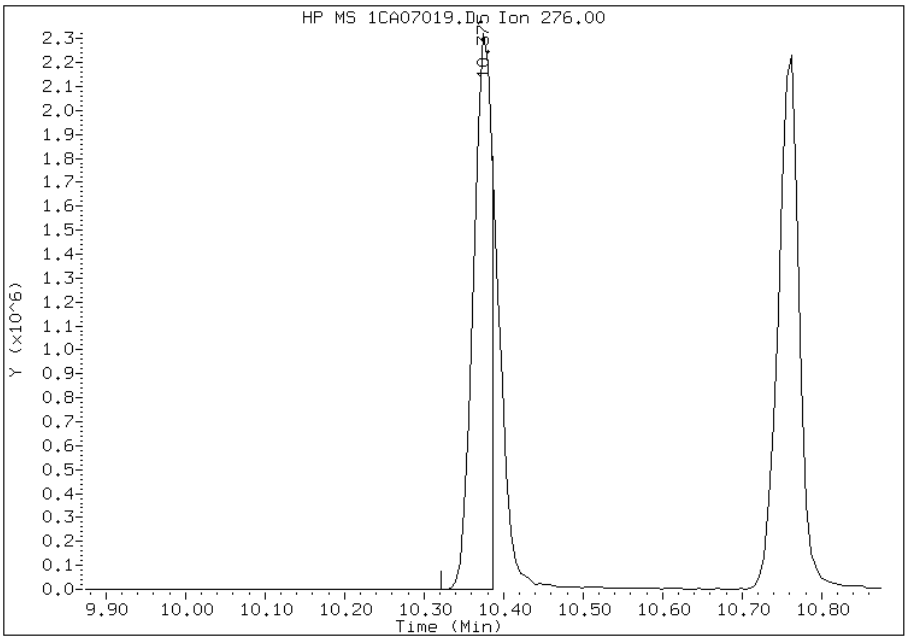
Manual Integration Results

RT: 10.37

Response: 3772962

Amount: 56

Conc: 56



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:40
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87496-2 Analy Batch No.: 133192

SDG No.: 68087496-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 10:43 Calibration End Date: 01/07/2013 12:58 Calibration ID: 2662

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133192/3	1DA07003.D
Level 2	IC 660-133192/4	1DA07004.D
Level 3	IC 660-133192/5	1DA07005.D
Level 4	IC 660-133192/6	1DA07006.D
Level 5	ICIS 660-133192/7	1DA07007.D
Level 6	IC 660-133192/8	1DA07008.D
Level 7	IC 660-133192/9	1DA07009.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	1.0326 1.0487	1.0678 1.0487	1.0821	1.0889	1.0361	Ave		1.0578			0.0000	2.1		15.0			
2-Methylnaphthalene	0.6507 0.6723	0.6743 0.6652	0.6839	0.6894	0.6672	Ave		0.6719			0.0000	1.9		15.0			
1-Methylnaphthalene	0.5922 0.6298	0.6521 0.6251	0.6495	0.6532	0.6221	Ave		0.6320			0.0000	3.5		15.0			
Acenaphthylene	1.4804 1.7952	1.6906 1.7550	1.8019	1.8298	1.7360	Ave		1.7270			0.0000	6.8		15.0			
Acenaphthene	1.0357 1.0581	1.0434 1.0271	1.1019	1.0802	1.0264	Ave		1.0532			0.0000	2.7		15.0			
Fluorene	1.2423 1.2561	1.2505 1.2175	1.2820	1.2926	1.2191	Ave		1.2514			0.0000	2.3		15.0			
Phenanthrene	1.3083 1.1051	1.1627 1.0757	1.1236	1.1454	1.0787	Ave		1.1428			0.0000	7.0		15.0			
Anthracene	1.0767 1.1402	1.1175 1.0993	1.1342	1.1607	1.1089	Ave		1.1196			0.0000	2.5		15.0			
Carbazole	0.9237 1.0116	1.0027 0.9834	1.0152	1.0170	0.9880	Ave		0.9917			0.0000	3.3		15.0			
Fluoranthene	1.0832 1.1621	1.1408 1.1339	1.1751	1.1877	1.1299	Ave		1.1447			0.0000	3.0		15.0			
Pyrene	1.1694 1.2821	1.2494 1.2240	1.2825	1.2973	1.2376	Ave		1.2489			0.0000	3.5		15.0			
Benzo[a]anthracene	1.5148 1.0995	1.1799 1.0830	1.1158	1.1306	1.0667	Ave		1.1700			0.0000	13.4		15.0			
Chrysene	1.2051 1.1142	1.1588 1.0633	1.1473	1.1276	1.0756	Ave		1.1274			0.0000	4.3		15.0			
Benzo[b]fluoranthene	0.9652 1.0404	1.0099 1.0124	1.0606	1.0334	0.9860	Ave		1.0154			0.0000	3.2		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.: 680-87496-2 Analy Batch No.: 133192

SDG No.: 68087496-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 10:43 Calibration End Date: 01/07/2013 12:58 Calibration ID: 2662

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	1.0249 1.0958	1.0575 1.0509	1.0863	1.1227	1.0697	Ave		1.0725			0.0000	3.0		15.0			
Benzo[a]pyrene	0.8729 1.0490	0.9715 1.0292	1.0282	1.0490	1.0082	Ave		1.0011			0.0000	6.2		15.0			
Indeno[1,2,3-cd]pyrene	0.9744 1.1397	1.0159 1.1426	1.0734	1.0875	1.0465	Ave		1.0686			0.0000	5.8		15.0			
Dibenz(a,h)anthracene	0.9295 1.0207	0.9472 0.9996	0.9919	0.9980	0.9770	Ave		0.9805			0.0000	3.3		15.0			
Benzo[g,h,i]perylene	1.0069 1.0507	0.9976 1.0256	1.0284	1.0461	1.0014	Ave		1.0224			0.0000	2.1		15.0			
o-Terphenyl	0.5295 0.6025	0.6044 0.5837	0.6246	0.6250	0.5876	Ave		0.5939			0.0000	5.5		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.: 680-87496-2 Analy Batch No.: 133192

SDG No.: 68087496-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 10:43 Calibration End Date: 01/07/2013 12:58 Calibration ID: 2662

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133192/3	1DA07003.D
Level 2	IC 660-133192/4	1DA07004.D
Level 3	IC 660-133192/5	1DA07005.D
Level 4	IC 660-133192/6	1DA07006.D
Level 5	ICIS 660-133192/7	1DA07007.D
Level 6	IC 660-133192/8	1DA07008.D
Level 7	IC 660-133192/9	1DA07009.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	14081 2217525	75051 3455368	371110	761664	1499373	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	8874 1421632	47392 2191842	234541	482221	965566	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8076 1331678	45830 2059513	222727	456888	900178	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	11732 2195429	69657 3401253	359613	748390	1468866	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8208 1293933	42989 1990525	219909	441782	868428	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	9845 1536111	51523 2359500	255855	528668	1031469	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	16942 2200797	77587 3355969	370259	762869	1479086	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	13943 2270785	74572 3429358	373778	773057	1520613	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	11962 2014501	66912 3068003	334549	677386	1354823	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	14028 2314400	76130 3537470	387235	791083	1549406	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	14686 2464372	80943 3756325	410239	833624	1653183	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	19024 2113434	76437 3323349	356902	726527	1424873	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15135 2141587	75076 3263100	367003	724549	1436719	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	12479 2058806	67382 3216419	350520	687579	1364545	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13251 2168595	70561 3338707	359015	746955	1480475	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.: 680-87496-2 Analy Batch No.: 133192

SDG No.: 68087496-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 10:43 Calibration End Date: 01/07/2013 12:58 Calibration ID: 2662

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	11286 2075812	64823 3269544	339811	697964	1395303	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12598 2255455	67785 3629982	354752	723555	1448350	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	12018 2019856	63201 3175644	327817	663992	1352122	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13019 2079330	66561 3258091	339874	696020	1385933	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	6857 1199919	40334 1821099	205836	416257	805710	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07003.D
Lab Smp Id: IC-1489894
Inj Date : 07-JAN-2013 10:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.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	6.237	6.237	(1.000)	2727403	40.0000	
* 6 Acenaphthene-d10	164	7.905	7.905	(1.000)	1584959	40.0000	
* 9 Phenanthrene-d10	188	9.168	9.168	(1.000)	2590020	40.0000	
$ 13 o-Terphenyl	230	9.474	9.474	(1.033)	6857	0.20000	0.18
* 17 Chrysene-d12	240	11.525	11.525	(1.000)	2511795	40.0000	
* 22 Perylene-d12	264	13.422	13.422	(1.000)	2585852	40.0000	
2 Naphthalene	128	6.254	6.254	(1.003)	14081	0.20000	0.20
3 2-Methylnaphthalene	142	6.959	6.959	(1.116)	8874	0.20000	0.19
4 1-Methylnaphthalene	142	7.047	7.047	(1.130)	8076	0.20000	0.19
5 Acenaphthylene	152	7.776	7.776	(0.984)	11732	0.20000	0.17
7 Acenaphthene	154	7.929	7.929	(1.003)	8208	0.20000	0.20
8 Fluorene	166	8.375	8.375	(1.059)	9845	0.20000	0.20
10 Phenanthrene	178	9.180	9.180	(1.001)	16942	0.20000	0.23
11 Anthracene	178	9.221	9.221	(1.006)	13943	0.20000	0.19
12 Carbazole	167	9.357	9.357	(1.021)	11962	0.20000	0.19
14 Fluoranthene	202	10.167	10.167	(1.109)	14028	0.20000	0.19
15 Pyrene	202	10.355	10.355	(0.899)	14686	0.20000	0.19
16 Benzo(a)anthracene	228	11.501	11.501	(0.998)	19024	0.20000	0.28
18 Chrysene	228	11.542	11.542	(1.002)	15135	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.852	12.852	(0.958)	12479	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.888	12.888	(0.960)	13251	0.20000	0.19(MH)
21 Benzo(a)pyrene	252	13.317	13.317	(0.992)	11286	0.20000	0.17
23 Indeno(1,2,3-cd)pyrene	276	15.050	15.050	(1.121)	12598	0.20000	0.18(M)
24 Dibenzo(a,h)anthracene	278	15.085	15.085	(1.124)	12018	0.20000	0.19(MH)
25 Benzo(g,h,i)perylene	276	15.514	15.514	(1.156)	13019	0.20000	0.20(MH)

QC Flag Legend

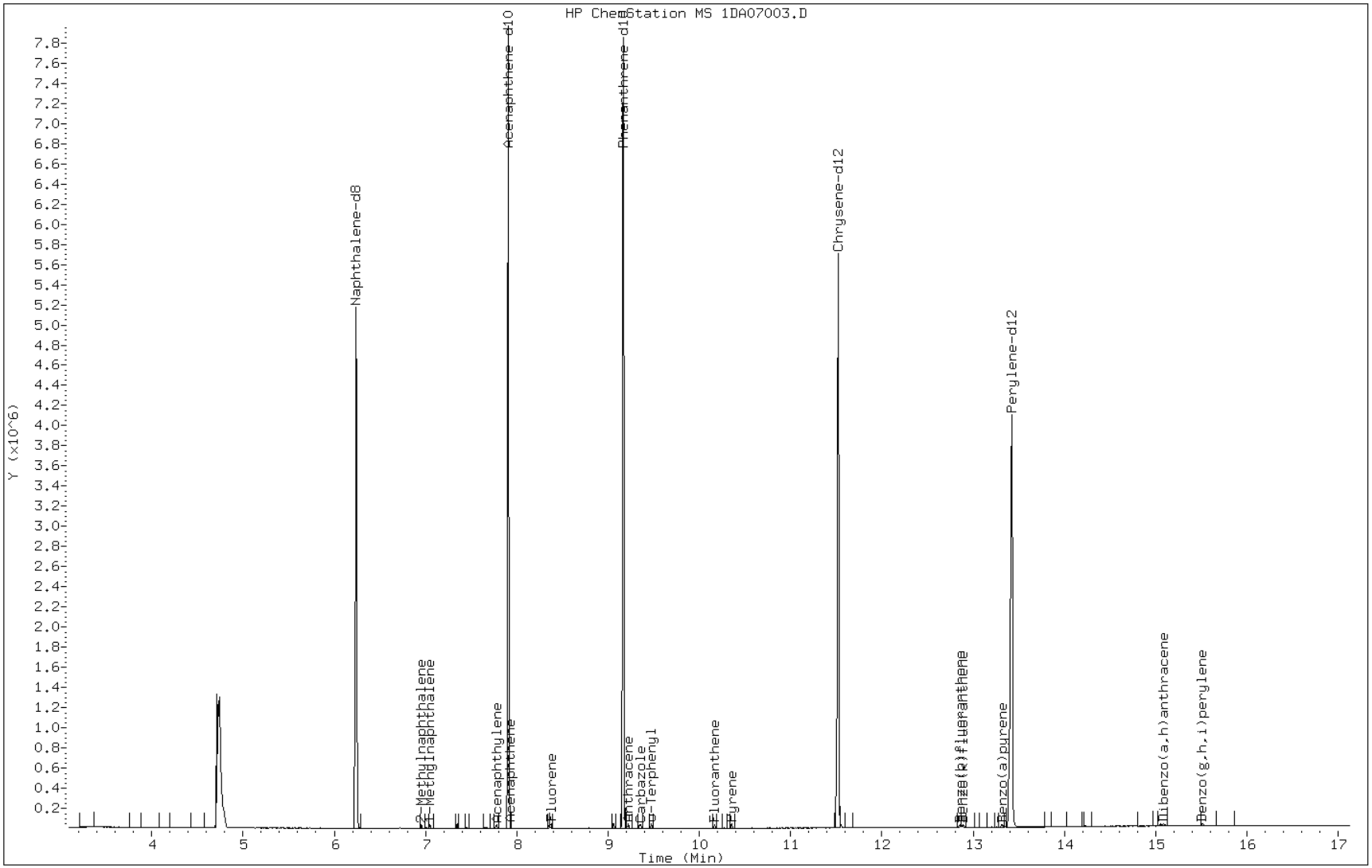
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07003.D

Date: 07-JAN-2013 10:43

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1DA07003.D
Inj. Date and Time: 07-JAN-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/07/2013

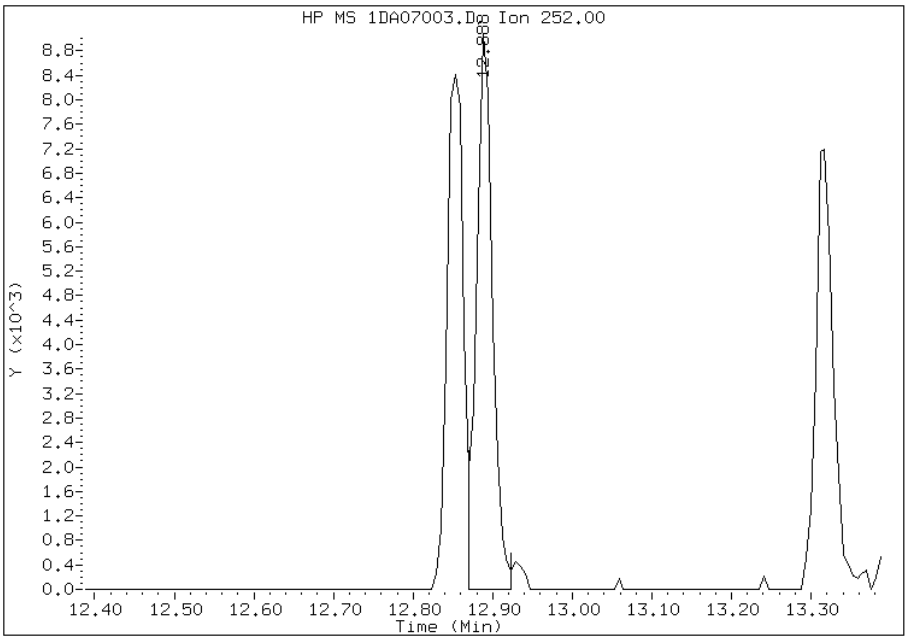
Processing Integration Results

RT: 12.89

Response: 12828

Amount: 0

Conc: 0



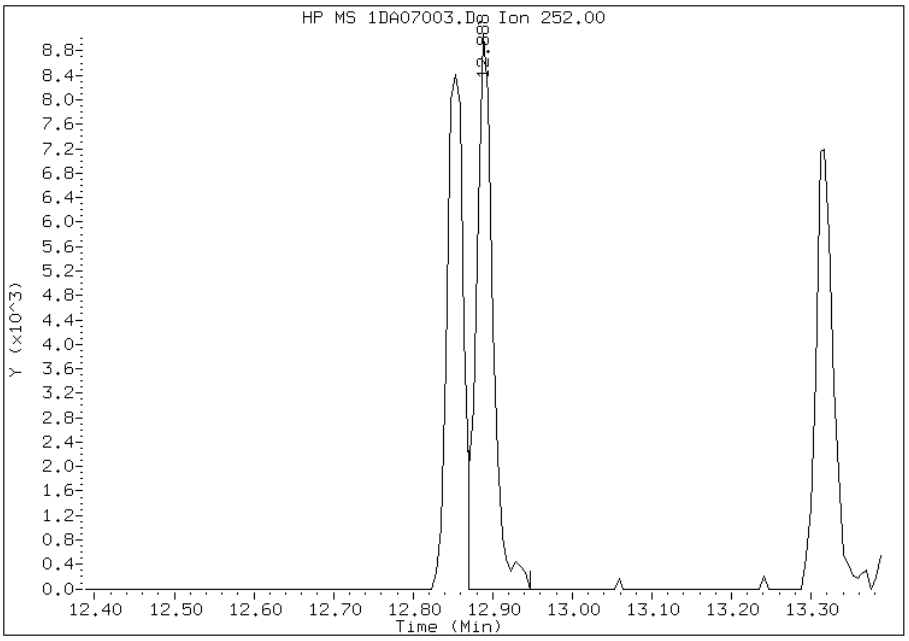
Manual Integration Results

RT: 12.89

Response: 13251

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DA07003.D
Inj. Date and Time: 07-JAN-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

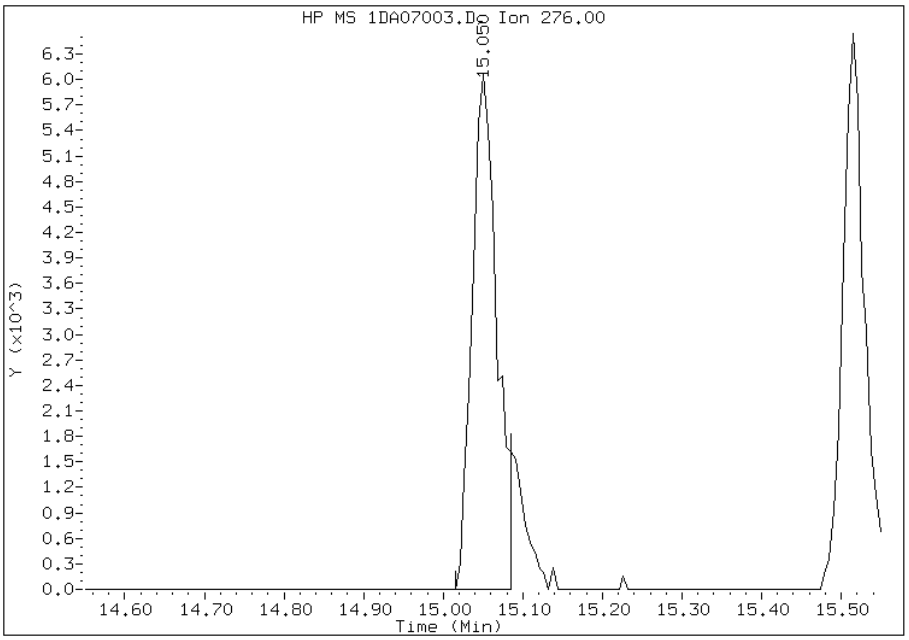
Processing Integration Results

RT: 15.05

Response: 13170

Amount: 0

Conc: 0



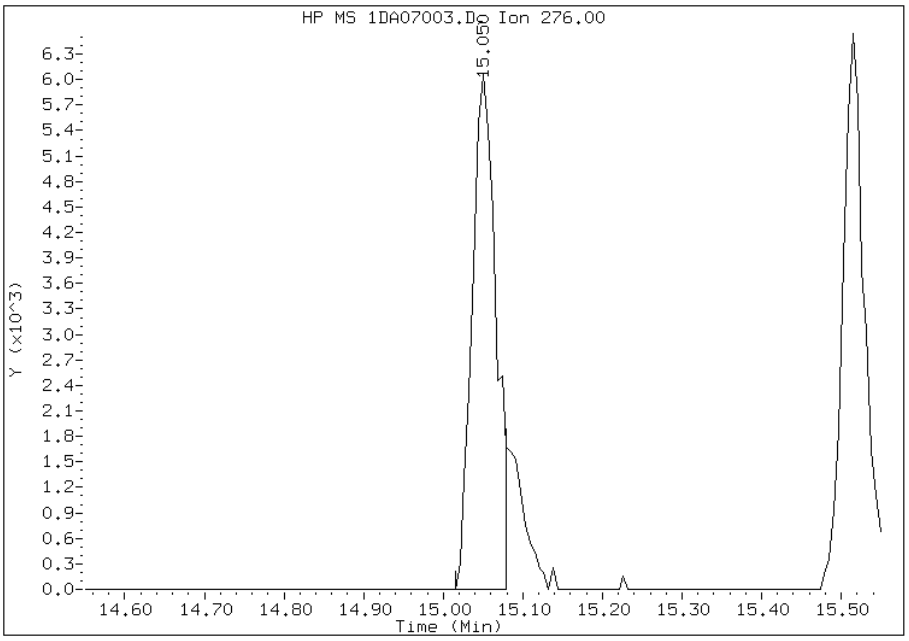
Manual Integration Results

RT: 15.05

Response: 12598

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DA07003.D
Inj. Date and Time: 07-JAN-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/07/2013

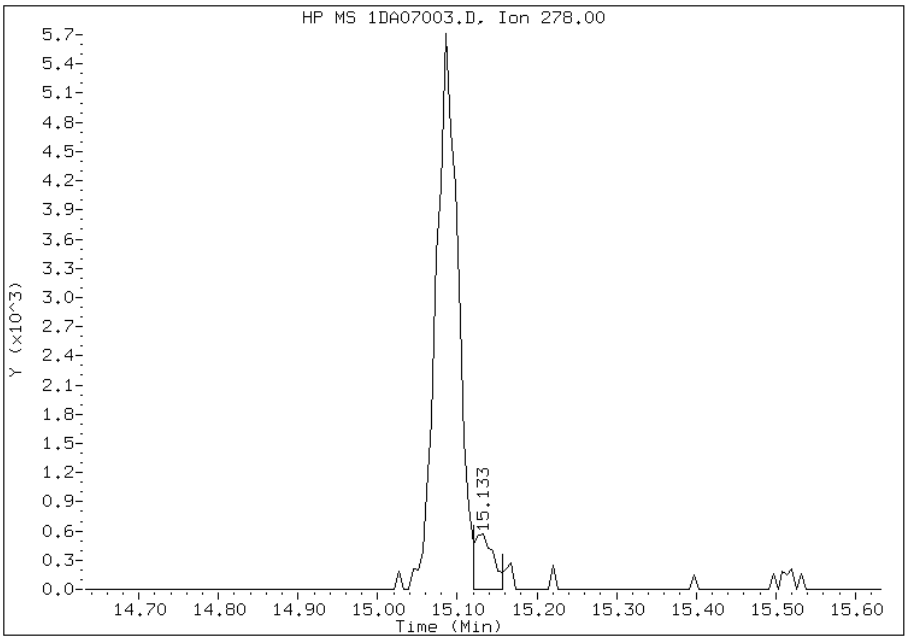
Processing Integration Results

RT: 15.13

Response: 977

Amount: 0

Conc: 0



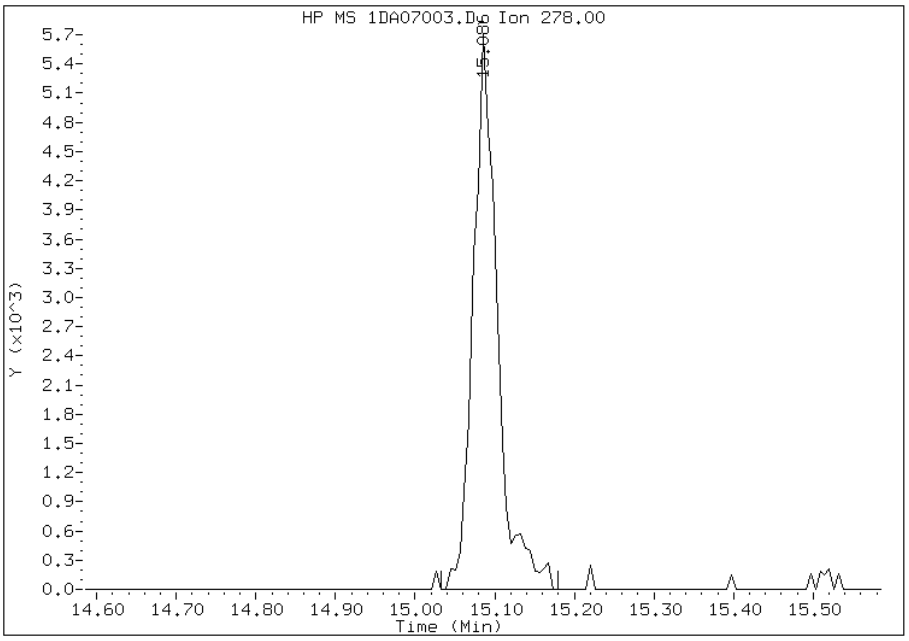
Manual Integration Results

RT: 15.09

Response: 12018

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DA07003.D
Inj. Date and Time: 07-JAN-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/07/2013

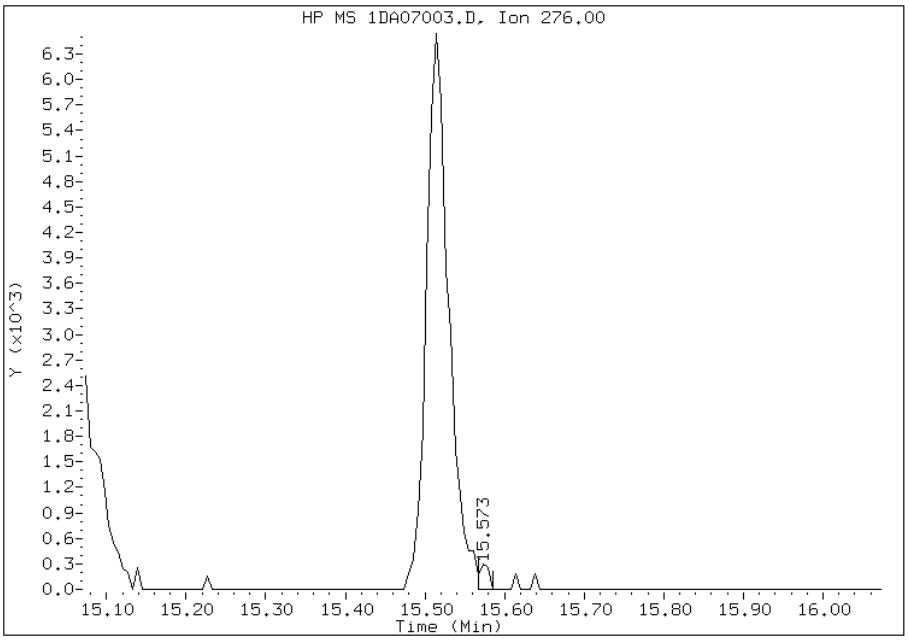
Processing Integration Results

RT: 15.57

Response: 258

Amount: 0

Conc: 0



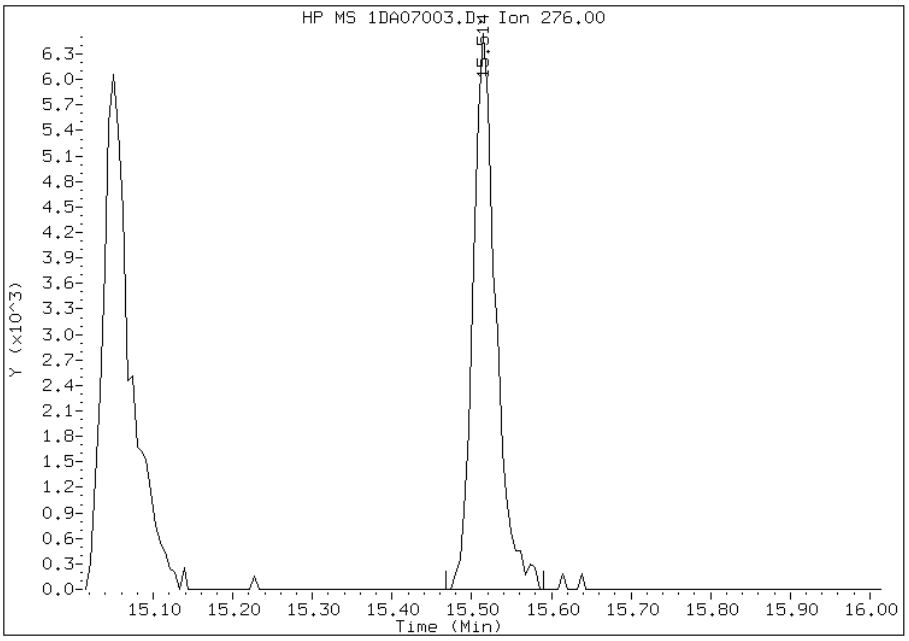
Manual Integration Results

RT: 15.51

Response: 13019

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:43
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07004.D
Lab Smp Id: IC-1489895
Inj Date : 07-JAN-2013 11:05
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 10:43 Cal File: 1DA07003.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	6.233	6.233	(1.000)	2811351	40.0000	
* 6 Acenaphthene-d10	164	7.901	7.901	(1.000)	1648080	40.0000	
* 9 Phenanthrene-d10	188	9.164	9.164	(1.000)	2669257	40.0000	
$ 13 o-Terphenyl	230	9.470	9.470	(1.033)	40334	1.00000	1.0
* 17 Chrysene-d12	240	11.520	11.520	(1.000)	2591399	40.0000	
* 22 Perylene-d12	264	13.418	13.418	(1.000)	2668926	40.0000	
2 Naphthalene	128	6.256	6.256	(1.004)	75051	1.00000	1.0
3 2-Methylnaphthalene	142	6.949	6.949	(1.115)	47392	1.00000	1.0
4 1-Methylnaphthalene	142	7.043	7.043	(1.130)	45830	1.00000	1.0
5 Acenaphthylene	152	7.772	7.772	(0.984)	69657	1.00000	0.98
7 Acenaphthene	154	7.925	7.925	(1.003)	42989	1.00000	0.99
8 Fluorene	166	8.371	8.371	(1.059)	51523	1.00000	1.00
10 Phenanthrene	178	9.176	9.176	(1.001)	77587	1.00000	1.0
11 Anthracene	178	9.217	9.217	(1.006)	74572	1.00000	1.00
12 Carbazole	167	9.352	9.352	(1.021)	66912	1.00000	1.0
14 Fluoranthene	202	10.163	10.163	(1.109)	76130	1.00000	1.00
15 Pyrene	202	10.351	10.351	(0.899)	80943	1.00000	1.0
16 Benzo(a)anthracene	228	11.497	11.497	(0.998)	76437	1.00000	1.1
18 Chrysene	228	11.538	11.538	(1.002)	75076	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.848	12.848	(0.958)	67382	1.00000	0.99
20 Benzo(k)fluoranthene	252	12.884	12.884	(0.960)	70561	1.00000	0.98
21 Benzo(a)pyrene	252	13.312	13.312	(0.992)	64823	1.00000	0.97
23 Indeno(1,2,3-cd)pyrene	276	15.046	15.046	(1.121)	67785	1.00000	0.95(M)
24 Dibenzo(a,h)anthracene	278	15.081	15.081	(1.124)	63201	1.00000	0.97(MH)
25 Benzo(g,h,i)perylene	276	15.504	15.504	(1.155)	66561	1.00000	0.98(MH)

QC Flag Legend

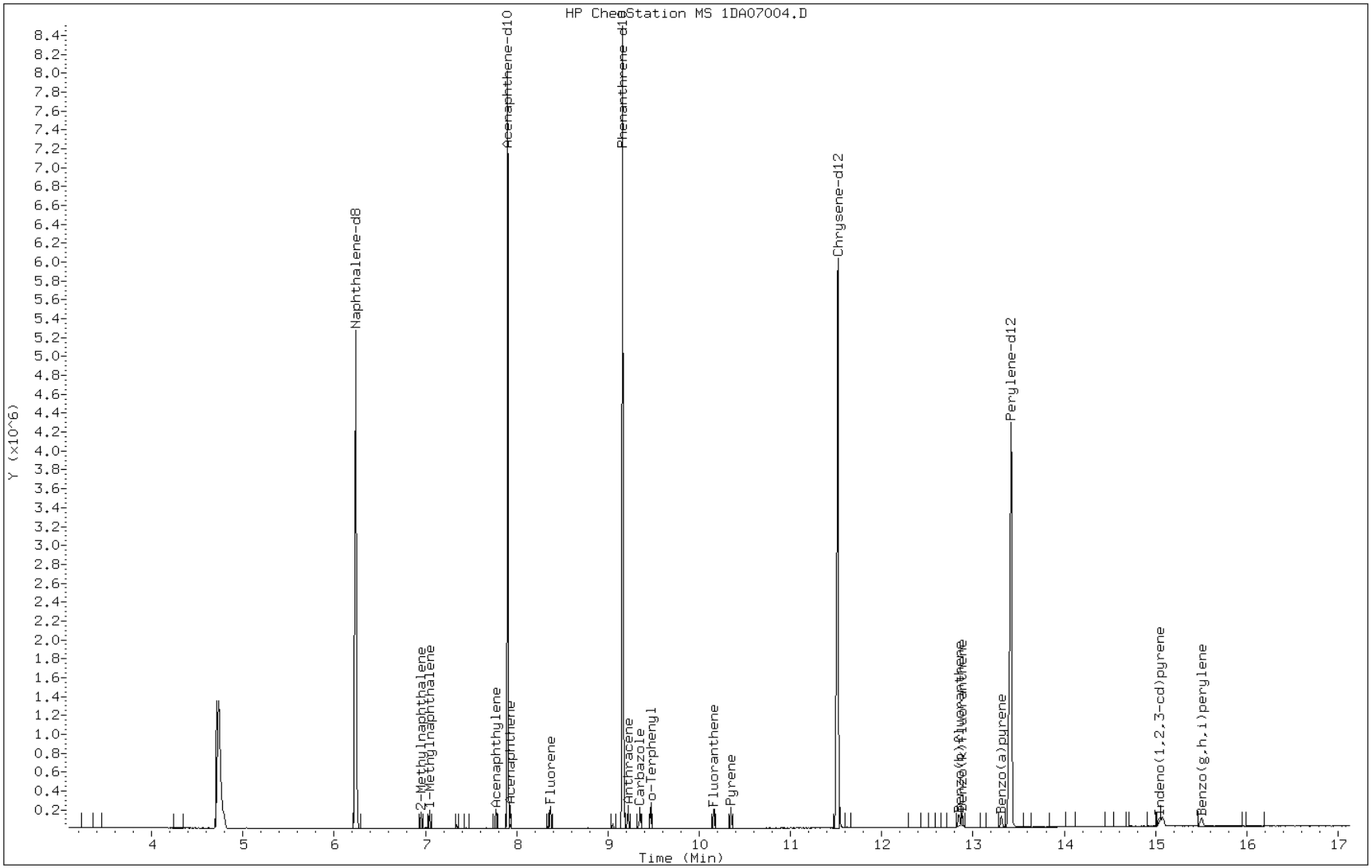
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07004.D

Date: 07-JAN-2013 11:05

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1DA07004.D
Inj. Date and Time: 07-JAN-2013 11:05
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

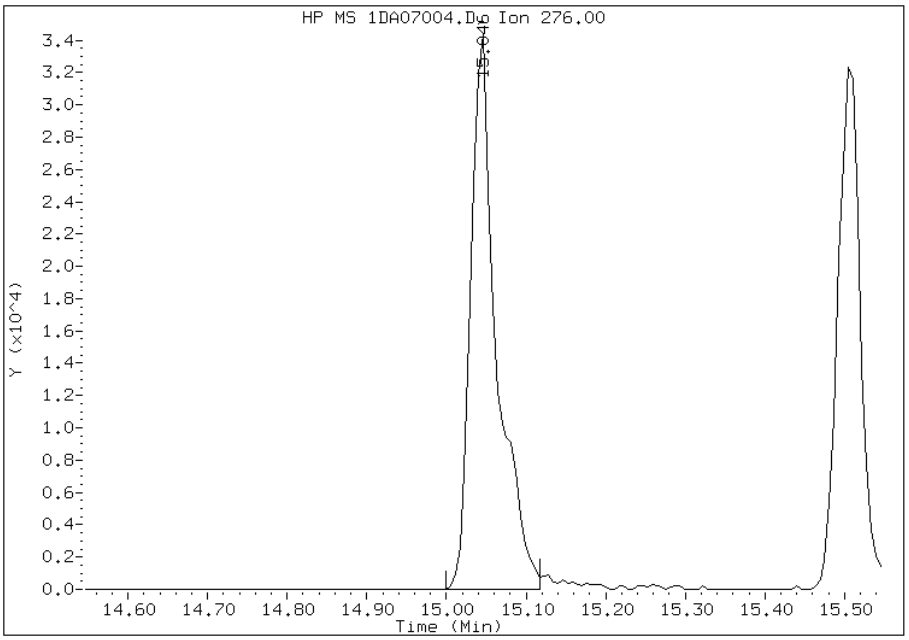
Processing Integration Results

RT: 15.05

Response: 77538

Amount: 1

Conc: 1



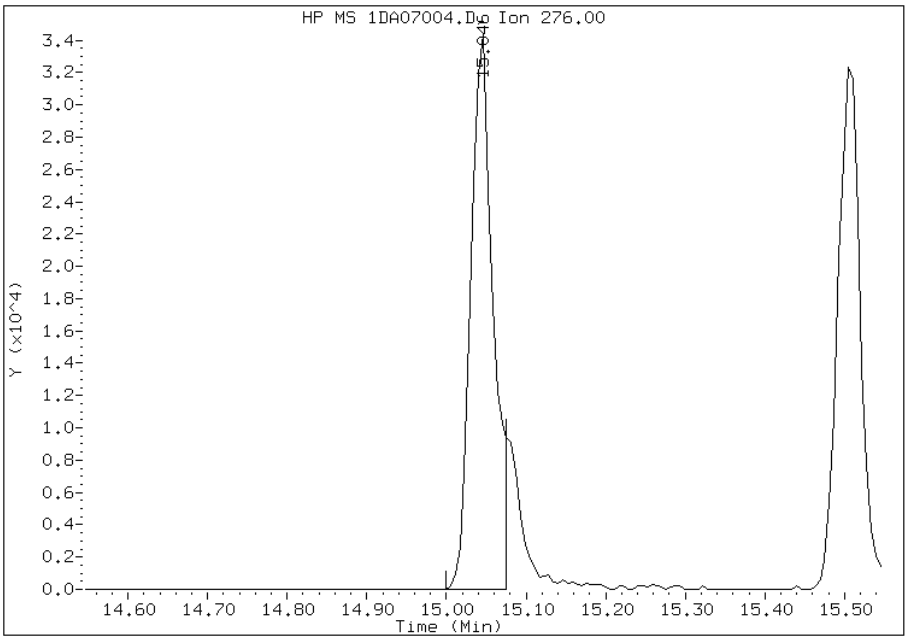
Manual Integration Results

RT: 15.05

Response: 67785

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DA07004.D
Inj. Date and Time: 07-JAN-2013 11:05
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/07/2013

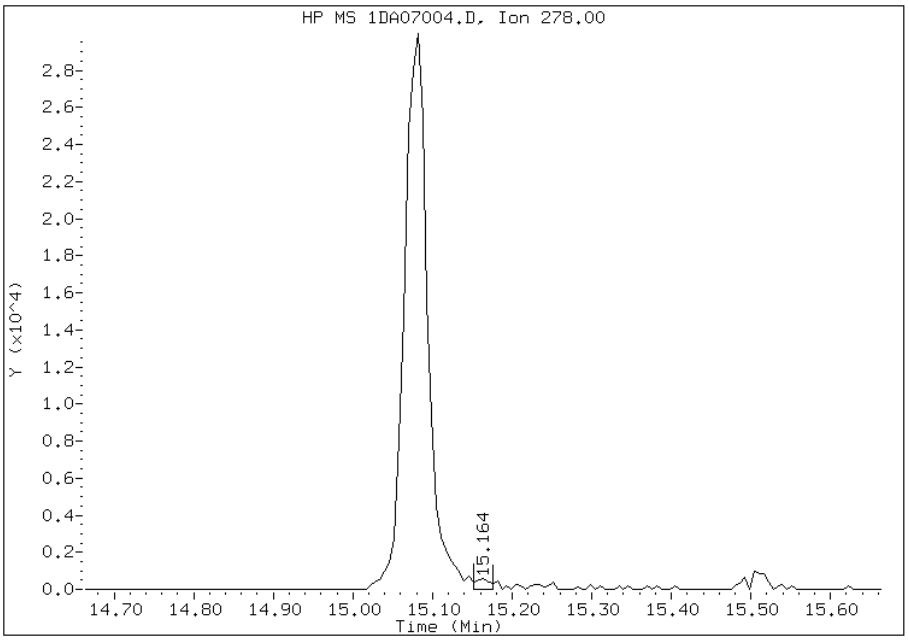
Processing Integration Results

RT: 15.16

Response: 770

Amount: 0

Conc: 0



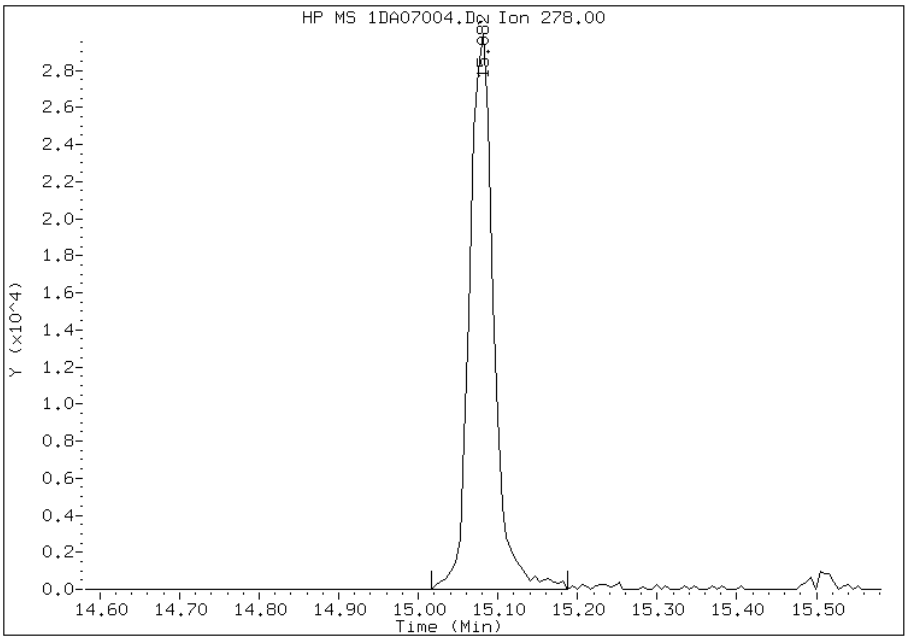
Manual Integration Results

RT: 15.08

Response: 63201

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DA07004.D
Inj. Date and Time: 07-JAN-2013 11:05
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/07/2013

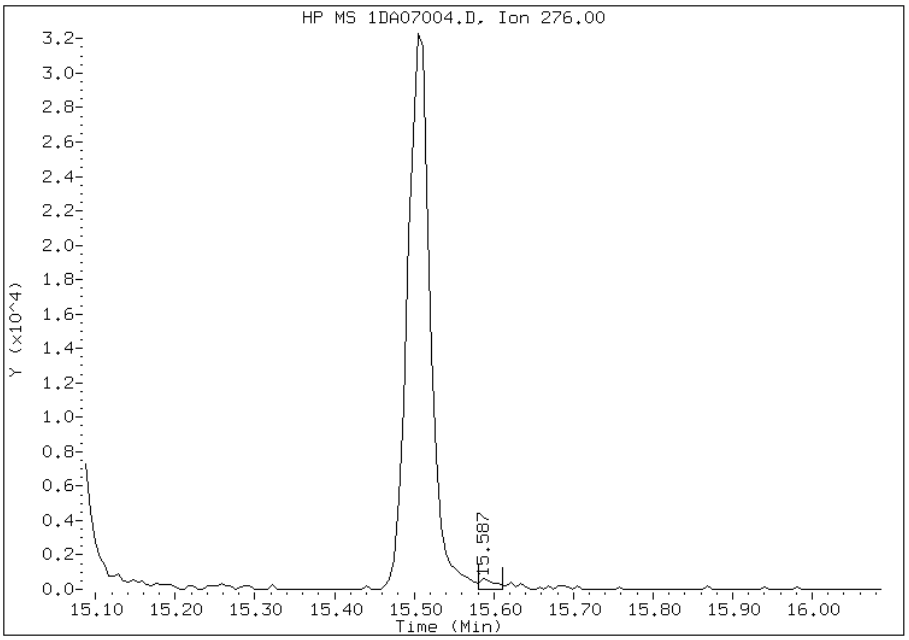
Processing Integration Results

RT: 15.59

Response: 827

Amount: 0

Conc: 0



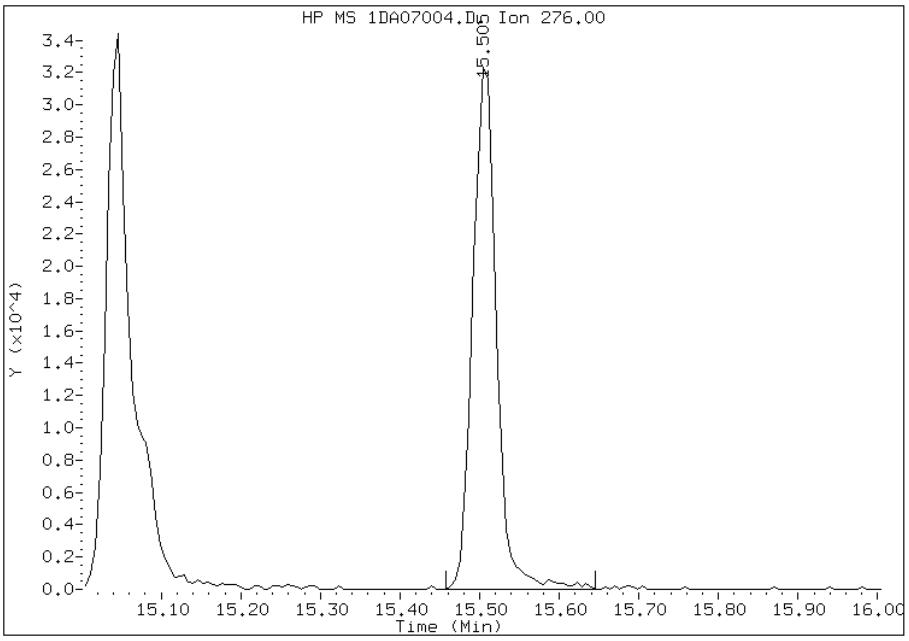
Manual Integration Results

RT: 15.50

Response: 66561

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:45
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07005.D
Lab Smp Id: IC-1489896
Inj Date : 07-JAN-2013 11:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 11:05 Cal File: 1DA07004.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	6.234	6.234	(1.000)	2743564	40.0000	
* 6 Acenaphthene-d10	164	7.903	7.903	(1.000)	1596605	40.0000	
* 9 Phenanthrene-d10	188	9.160	9.160	(1.000)	2636310	40.0000	
$ 13 o-Terphenyl	230	9.466	9.466	(1.033)	205836	5.00000	5.2
* 17 Chrysene-d12	240	11.516	11.516	(1.000)	2558962	40.0000	
* 22 Perylene-d12	264	13.420	13.420	(1.000)	2644008	40.0000	
2 Naphthalene	128	6.252	6.252	(1.003)	371110	5.00000	5.1
3 2-Methylnaphthalene	142	6.951	6.951	(1.115)	234541	5.00000	5.1
4 1-Methylnaphthalene	142	7.045	7.045	(1.130)	222727	5.00000	5.1
5 Acenaphthylene	152	7.774	7.774	(0.984)	359613	5.00000	5.2
7 Acenaphthene	154	7.926	7.926	(1.003)	219909	5.00000	5.2
8 Fluorene	166	8.367	8.367	(1.059)	255855	5.00000	5.1
10 Phenanthrene	178	9.178	9.178	(1.002)	370259	5.00000	4.9
11 Anthracene	178	9.219	9.219	(1.006)	373778	5.00000	5.1
12 Carbazole	167	9.354	9.354	(1.021)	334549	5.00000	5.1
14 Fluoranthene	202	10.159	10.159	(1.109)	387235	5.00000	5.1
15 Pyrene	202	10.353	10.353	(0.899)	410239	5.00000	5.1
16 Benzo(a)anthracene	228	11.499	11.499	(0.998)	356902	5.00000	5.1
18 Chrysene	228	11.540	11.540	(1.002)	367003	5.00000	5.1
19 Benzo(b)fluoranthene	252	12.844	12.844	(0.957)	350520	5.00000	5.2
20 Benzo(k)fluoranthene	252	12.885	12.885	(0.960)	359015	5.00000	5.1
21 Benzo(a)pyrene	252	13.314	13.314	(0.992)	339811	5.00000	5.1
23 Indeno(1,2,3-cd)pyrene	276	15.047	15.047	(1.121)	354752	5.00000	5.0(M)
24 Dibenzo(a,h)anthracene	278	15.083	15.083	(1.124)	327817	5.00000	5.0(MH)
25 Benzo(g,h,i)perylene	276	15.512	15.512	(1.156)	339874	5.00000	5.0(MH)

QC Flag Legend

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

Data File: 1DA07005.D

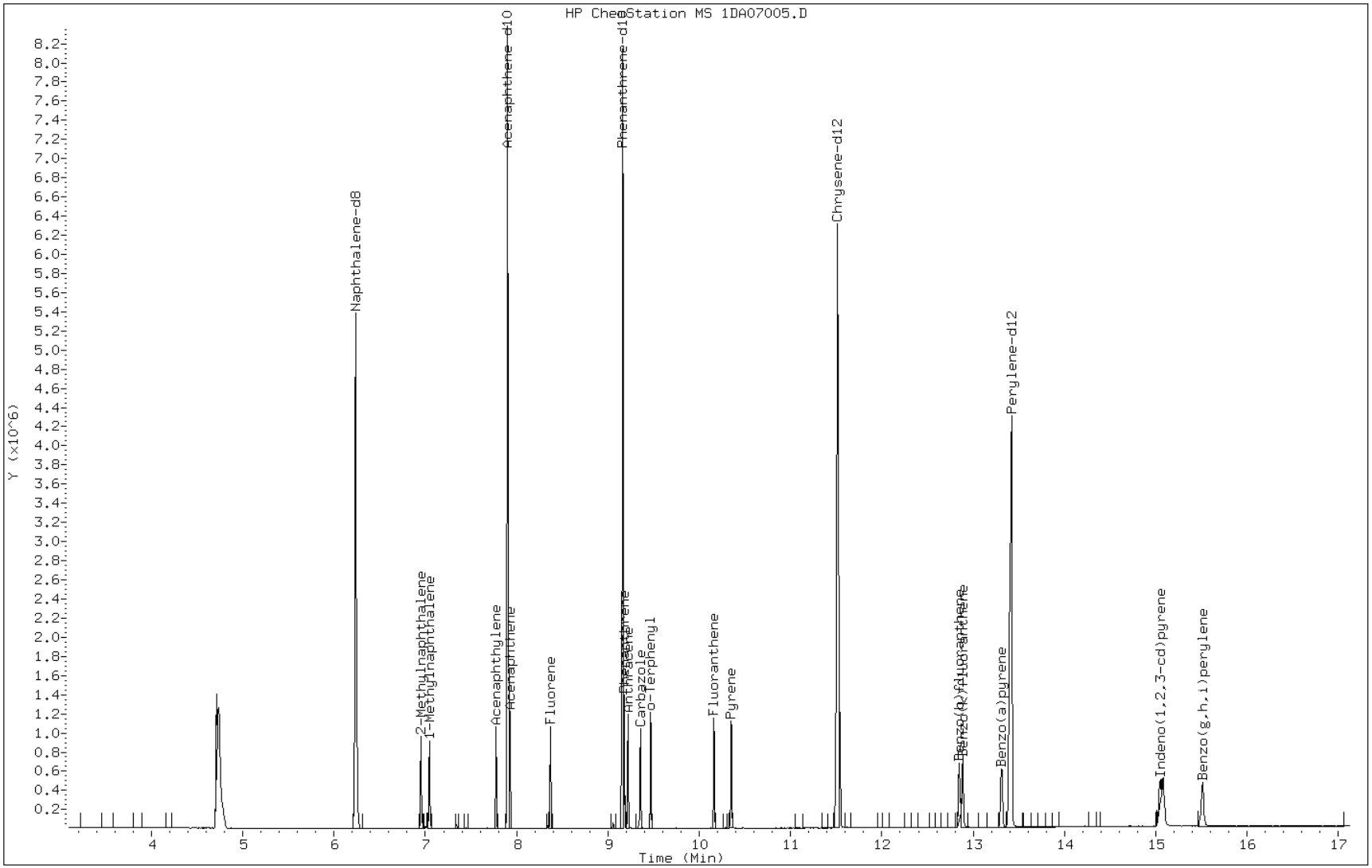
Date: 07-JAN-2013 11:28

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1489896

Operator: SCC



Manual Integration Report

Data File: 1DA07005.D
Inj. Date and Time: 07-JAN-2013 11:28
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

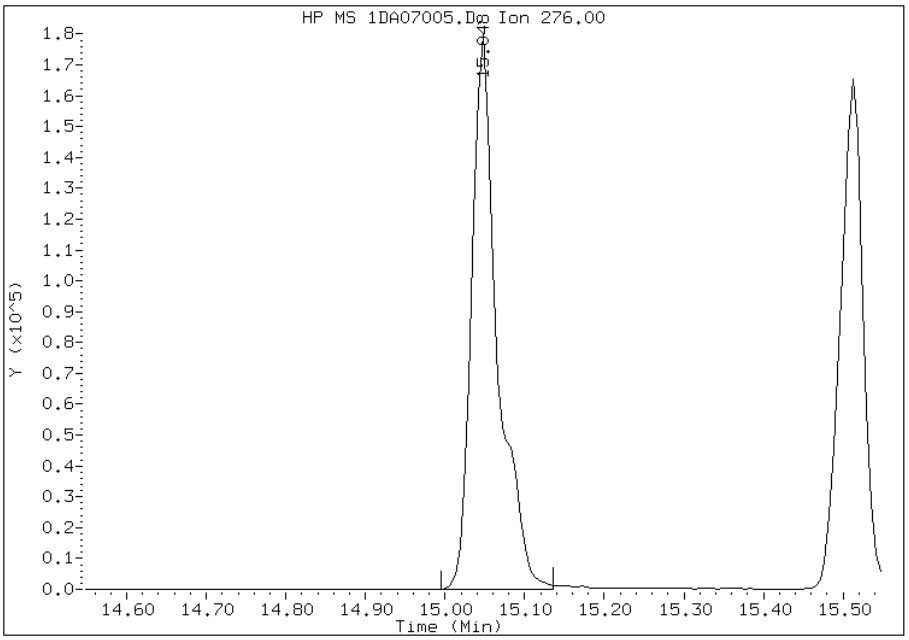
Processing Integration Results

RT: 15.05

Response: 403139

Amount: 6

Conc: 6



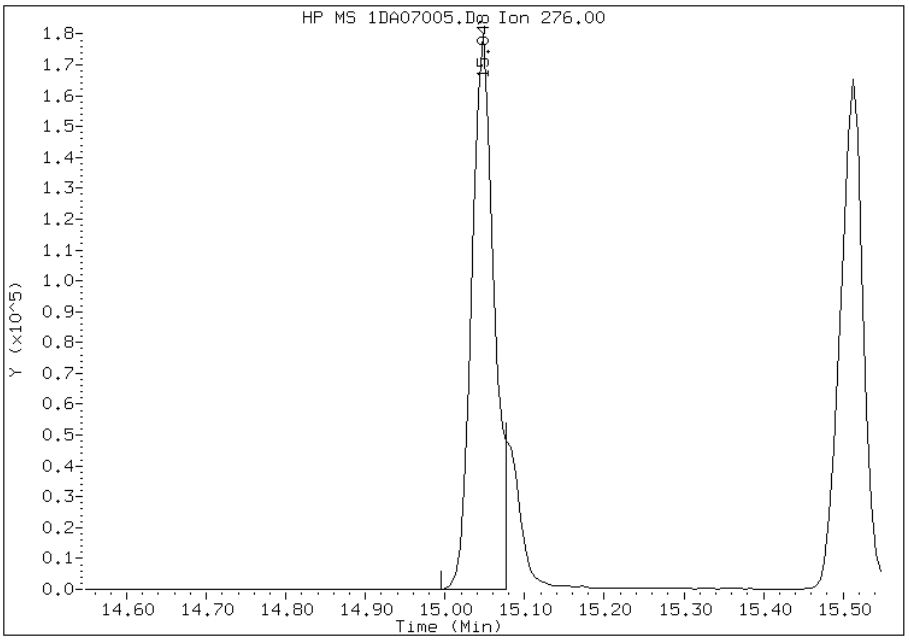
Manual Integration Results

RT: 15.05

Response: 354752

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DA07005.D
Inj. Date and Time: 07-JAN-2013 11:28
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/07/2013

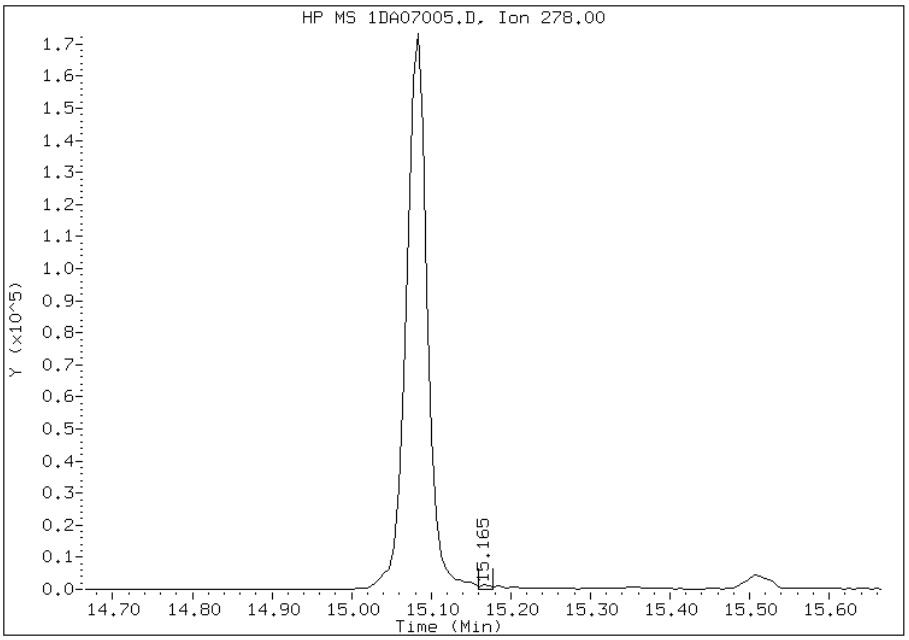
Processing Integration Results

RT: 15.17

Response: 1440

Amount: 0

Conc: 0



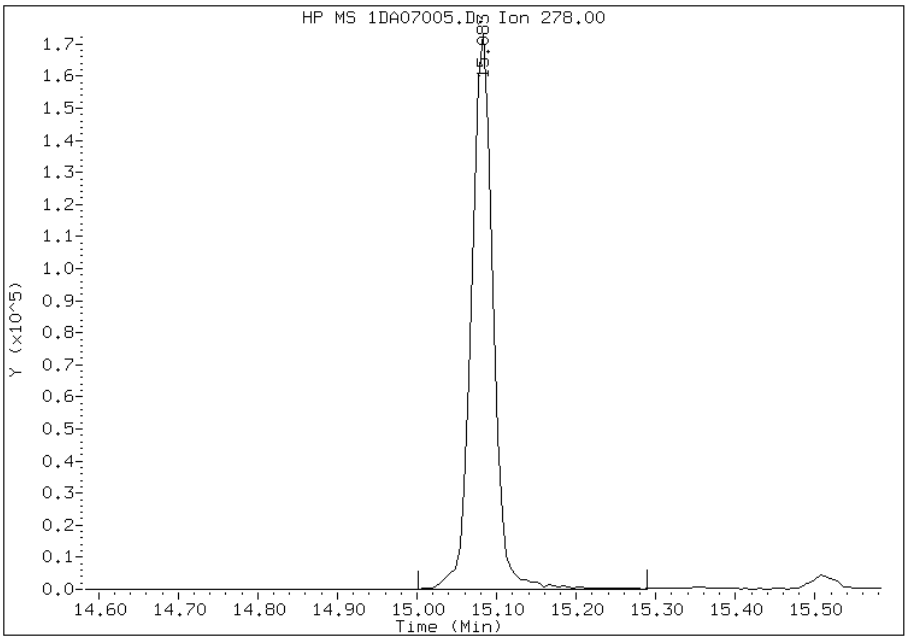
Manual Integration Results

RT: 15.08

Response: 327817

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DA07005.D
Inj. Date and Time: 07-JAN-2013 11:28
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/07/2013

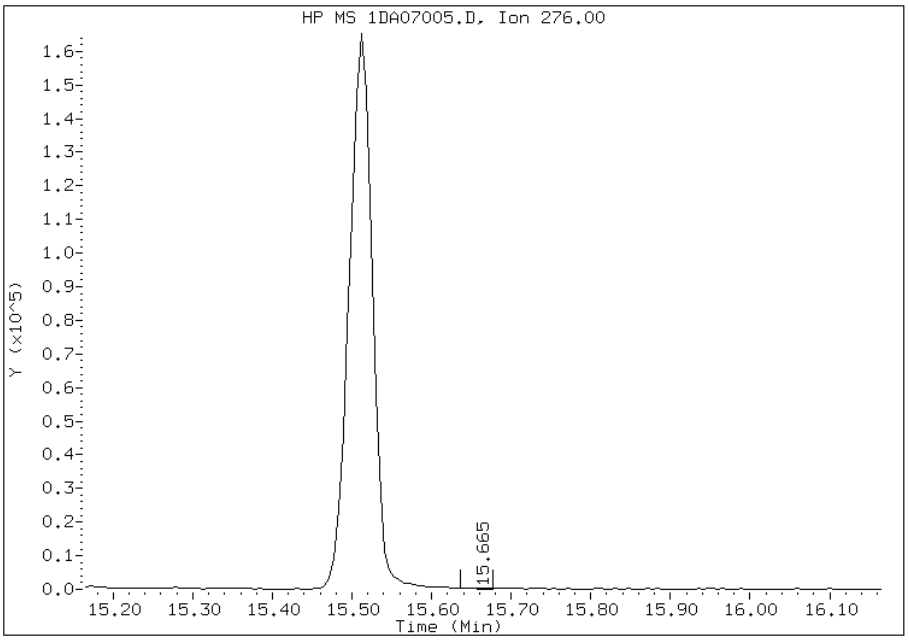
Processing Integration Results

RT: 15.66

Response: 744

Amount: 0

Conc: 0



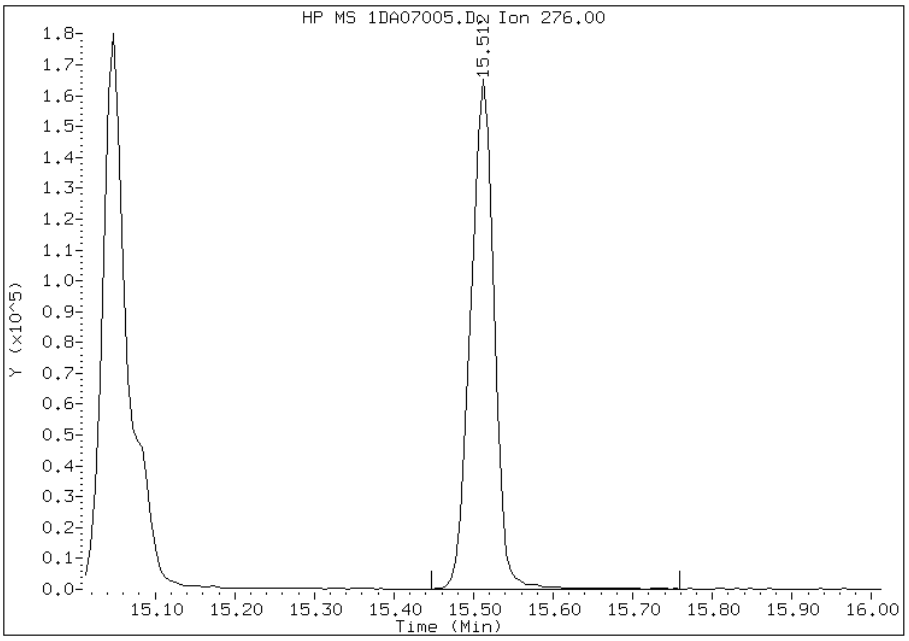
Manual Integration Results

RT: 15.51

Response: 339874

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:46
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07006.D
Lab Smp Id: IC-1489897
Inj Date : 07-JAN-2013 11:50
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 11:28 Cal File: 1DA07005.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	6.233	6.233	(1.000)	2797975	40.0000	
* 6 Acenaphthene-d10	164	7.902	7.902	(1.000)	1635976	40.0000	
* 9 Phenanthrene-d10	188	9.165	9.165	(1.000)	2664171	40.0000	
$ 13 o-Terphenyl	230	9.471	9.471	(1.033)	416257	10.0000	10
* 17 Chrysene-d12	240	11.521	11.521	(1.000)	2570331	40.0000	
* 22 Perylene-d12	264	13.419	13.419	(1.000)	2661356	40.0000	
2 Naphthalene	128	6.257	6.257	(1.004)	761664	10.0000	10
3 2-Methylnaphthalene	142	6.950	6.950	(1.115)	482221	10.0000	10
4 1-Methylnaphthalene	142	7.044	7.044	(1.130)	456888	10.0000	10
5 Acenaphthylene	152	7.773	7.773	(0.984)	748390	10.0000	10
7 Acenaphthene	154	7.925	7.925	(1.003)	441782	10.0000	10
8 Fluorene	166	8.372	8.372	(1.059)	528668	10.0000	10
10 Phenanthrene	178	9.183	9.183	(1.002)	762869	10.0000	10
11 Anthracene	178	9.218	9.218	(1.006)	773057	10.0000	10
12 Carbazole	167	9.353	9.353	(1.021)	677386	10.0000	10
14 Fluoranthene	202	10.164	10.164	(1.109)	791083	10.0000	10
15 Pyrene	202	10.352	10.352	(0.899)	833624	10.0000	10
16 Benzo(a)anthracene	228	11.498	11.498	(0.998)	726527	10.0000	10
18 Chrysene	228	11.545	11.545	(1.002)	724549	10.0000	10
19 Benzo(b)fluoranthene	252	12.855	12.855	(0.958)	687579	10.0000	10
20 Benzo(k)fluoranthene	252	12.890	12.890	(0.961)	746955	10.0000	10
21 Benzo(a)pyrene	252	13.313	13.313	(0.992)	697964	10.0000	10
23 Indeno(1,2,3-cd)pyrene	276	15.052	15.052	(1.122)	723555	10.0000	10(M)
24 Dibenzo(a,h)anthracene	278	15.087	15.087	(1.124)	663992	10.0000	10(H)
25 Benzo(g,h,i)perylene	276	15.522	15.522	(1.157)	696020	10.0000	10(H)

QC Flag Legend

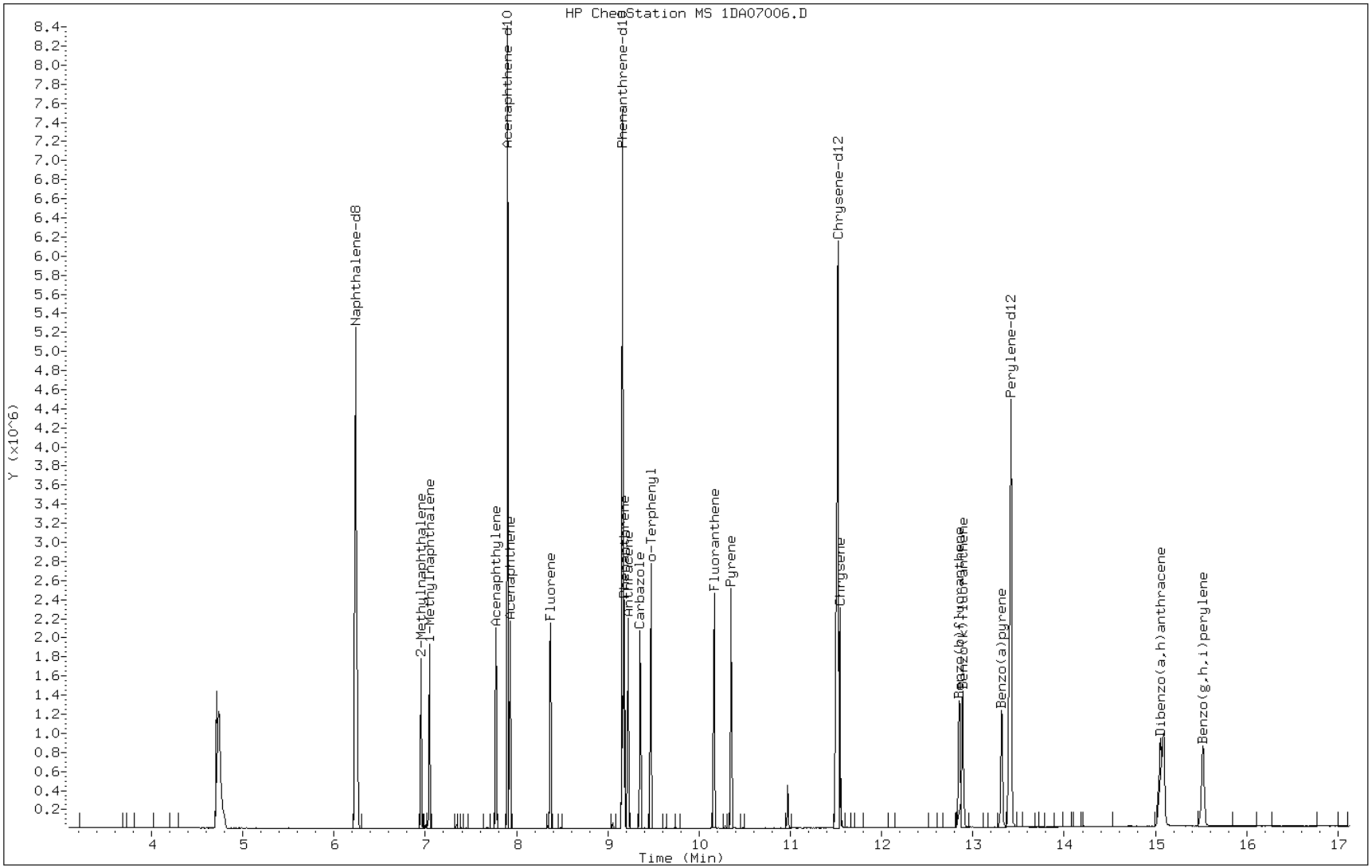
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07006.D

Date: 07-JAN-2013 11:50

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1DA07006.D
Inj. Date and Time: 07-JAN-2013 11:50
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

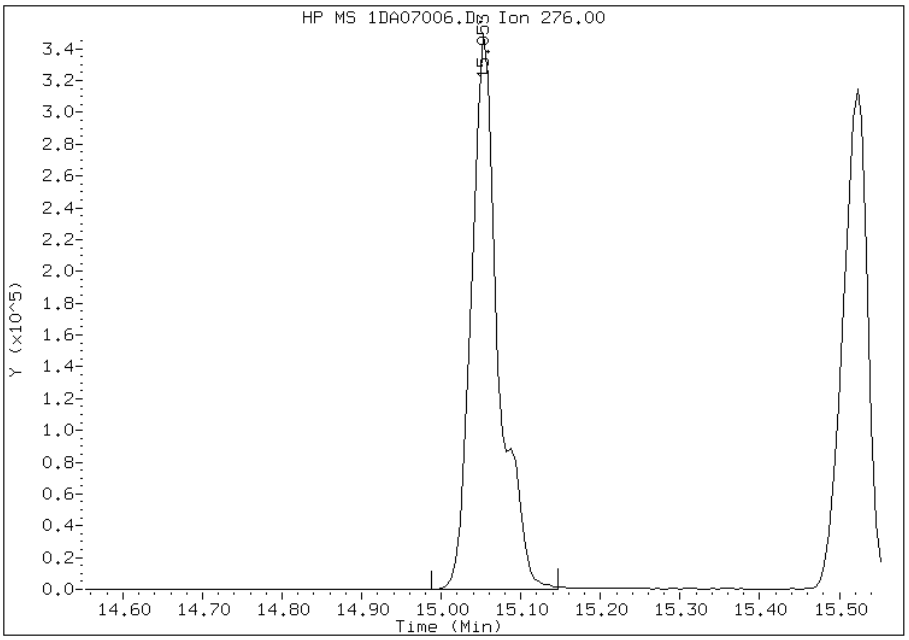
Processing Integration Results

RT: 15.05

Response: 822773

Amount: 11

Conc: 11



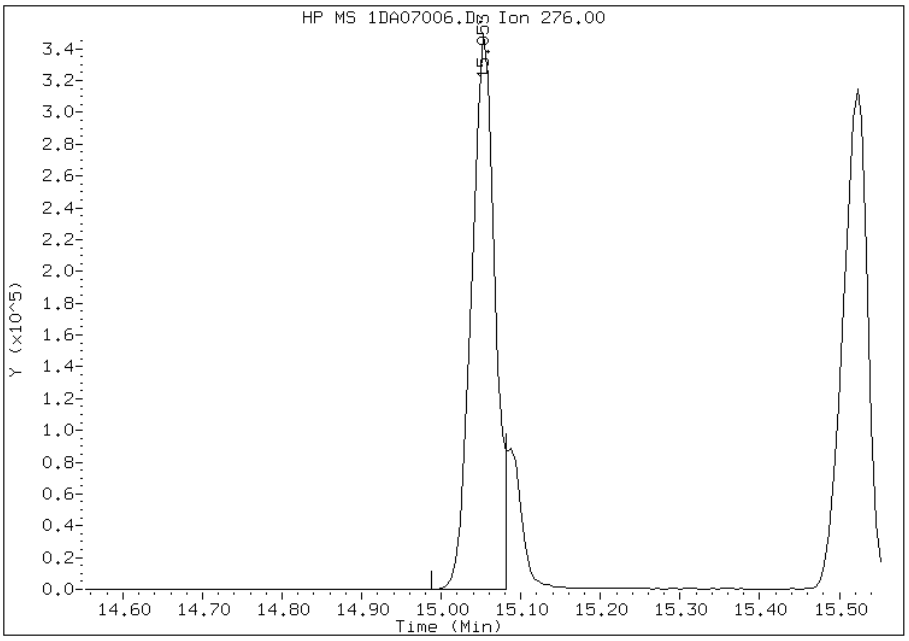
Manual Integration Results

RT: 15.05

Response: 723555

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:47
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07007.D
Lab Smp Id: ICIS-1489898
Inj Date : 07-JAN-2013 12:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 11:50 Cal File: 1DA07006.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

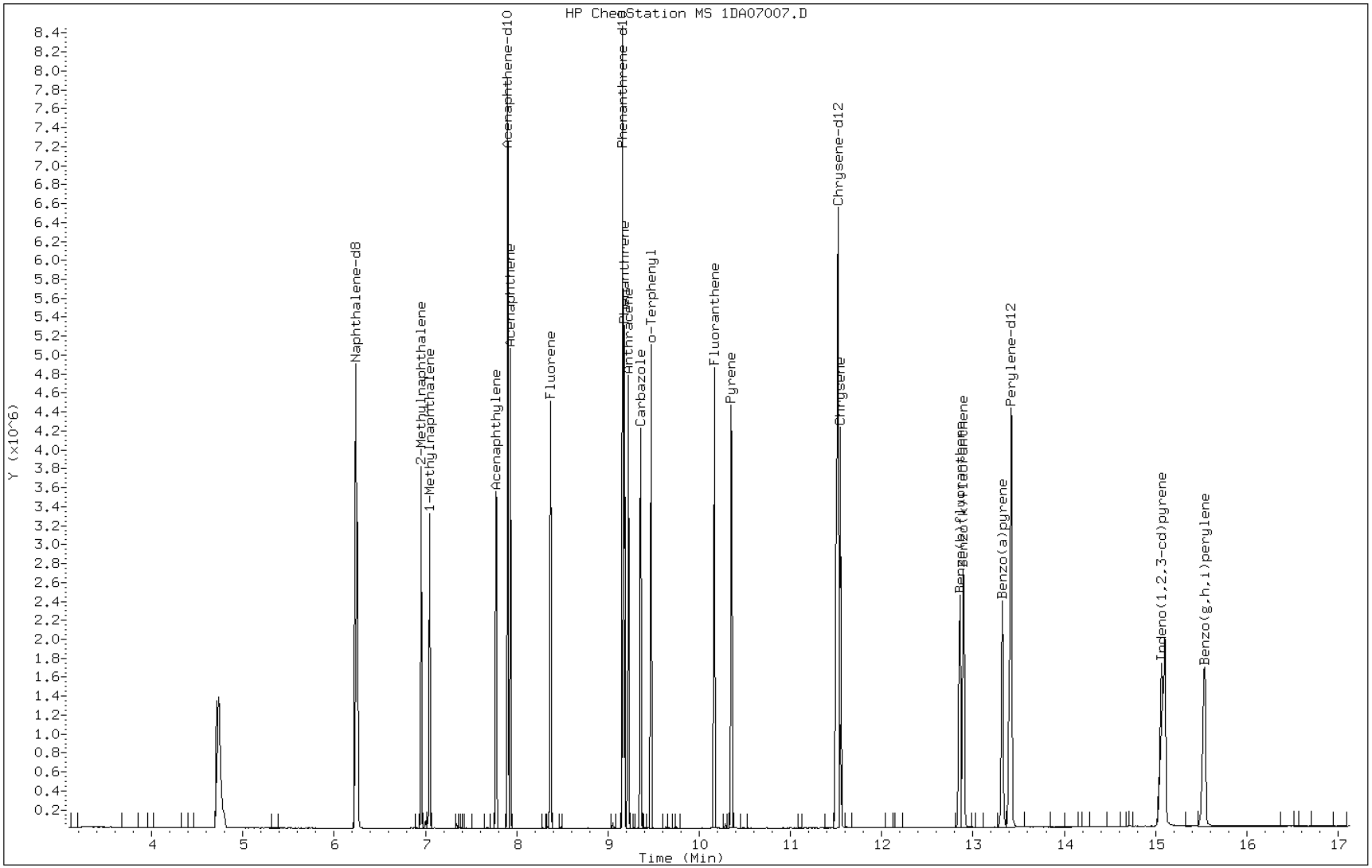
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.232	6.232	(1.000)	2894220	40.0000	
* 6 Acenaphthene-d10	164	7.901	7.901	(1.000)	1692196	40.0000	
* 9 Phenanthrene-d10	188	9.164	9.164	(1.000)	2742443	40.0000	
$ 13 o-Terphenyl	230	9.470	9.470	(1.033)	805710	20.0000	20
* 17 Chrysene-d12	240	11.520	11.520	(1.000)	2671554	40.0000	
* 22 Perylene-d12	264	13.418	13.418	(1.000)	2767955	40.0000	
2 Naphthalene	128	6.256	6.256	(1.004)	1499373	20.0000	20
3 2-Methylnaphthalene	142	6.955	6.955	(1.116)	965566	20.0000	20
4 1-Methylnaphthalene	142	7.043	7.043	(1.130)	900178	20.0000	20
5 Acenaphthylene	152	7.778	7.778	(0.984)	1468866	20.0000	20
7 Acenaphthene	154	7.930	7.930	(1.004)	868428	20.0000	19
8 Fluorene	166	8.371	8.371	(1.059)	1031469	20.0000	19
10 Phenanthrene	178	9.182	9.182	(1.002)	1479086	20.0000	19
11 Anthracene	178	9.223	9.223	(1.006)	1520613	20.0000	20
12 Carbazole	167	9.358	9.358	(1.021)	1354823	20.0000	20
14 Fluoranthene	202	10.163	10.163	(1.109)	1549406	20.0000	20
15 Pyrene	202	10.351	10.351	(0.899)	1653183	20.0000	20
16 Benzo(a)anthracene	228	11.503	11.503	(0.998)	1424873	20.0000	20
18 Chrysene	228	11.550	11.550	(1.003)	1436719	20.0000	19
19 Benzo(b)fluoranthene	252	12.854	12.854	(0.958)	1364545	20.0000	19
20 Benzo(k)fluoranthene	252	12.901	12.901	(0.961)	1480475	20.0000	20
21 Benzo(a)pyrene	252	13.324	13.324	(0.993)	1395303	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	15.063	15.063	(1.123)	1448350	20.0000	20
24 Dibenzo(a,h)anthracene	278	15.104	15.104	(1.126)	1352122	20.0000	20
25 Benzo(g,h,i)perylene	276	15.539	15.539	(1.158)	1385933	20.0000	20

Data File: 1DA07007.D

Date: 07-JAN-2013 12:13

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1489898 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07008.D
Lab Smp Id: IC-1489899
Inj Date : 07-JAN-2013 12:36
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 12:13 Cal File: 1DA07007.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	6.234	6.234	(1.000)	2819474	40.0000	
* 6 Acenaphthene-d10	164	7.902	7.902	(1.000)	1630580	40.0000	
* 9 Phenanthrene-d10	188	9.166	9.166	(1.000)	2655331	40.0000	
$ 13 o-Terphenyl	230	9.471	9.471	(1.033)	1199919	30.0000	30
* 17 Chrysene-d12	240	11.522	11.522	(1.000)	2562794	40.0000	
* 22 Perylene-d12	264	13.425	13.425	(1.000)	2638585	40.0000	
2 Naphthalene	128	6.257	6.257	(1.004)	2217525	30.0000	30
3 2-Methylnaphthalene	142	6.956	6.956	(1.116)	1421632	30.0000	30
4 1-Methylnaphthalene	142	7.045	7.045	(1.130)	1331678	30.0000	30
5 Acenaphthylene	152	7.779	7.779	(0.984)	2195429	30.0000	31
7 Acenaphthene	154	7.932	7.932	(1.004)	1293933	30.0000	30
8 Fluorene	166	8.372	8.372	(1.059)	1536111	30.0000	30
10 Phenanthrene	178	9.183	9.183	(1.002)	2200797	30.0000	29
11 Anthracene	178	9.224	9.224	(1.006)	2270785	30.0000	30
12 Carbazole	167	9.359	9.359	(1.021)	2014501	30.0000	31
14 Fluoranthene	202	10.164	10.164	(1.109)	2314400	30.0000	30
15 Pyrene	202	10.352	10.352	(0.899)	2464372	30.0000	31
16 Benzo(a)anthracene	228	11.504	11.504	(0.998)	2113434	30.0000	30
18 Chrysene	228	11.551	11.551	(1.003)	2141587	30.0000	30
19 Benzo(b)fluoranthene	252	12.861	12.861	(0.958)	2058806	30.0000	31
20 Benzo(k)fluoranthene	252	12.902	12.902	(0.961)	2168595	30.0000	31
21 Benzo(a)pyrene	252	13.331	13.331	(0.993)	2075812	30.0000	31
23 Indeno(1,2,3-cd)pyrene	276	15.076	15.076	(1.123)	2255455	30.0000	32
24 Dibenzo(a,h)anthracene	278	15.112	15.112	(1.126)	2019856	30.0000	31(H)
25 Benzo(g,h,i)perylene	276	15.552	15.552	(1.158)	2079330	30.0000	31(H)

QC Flag Legend

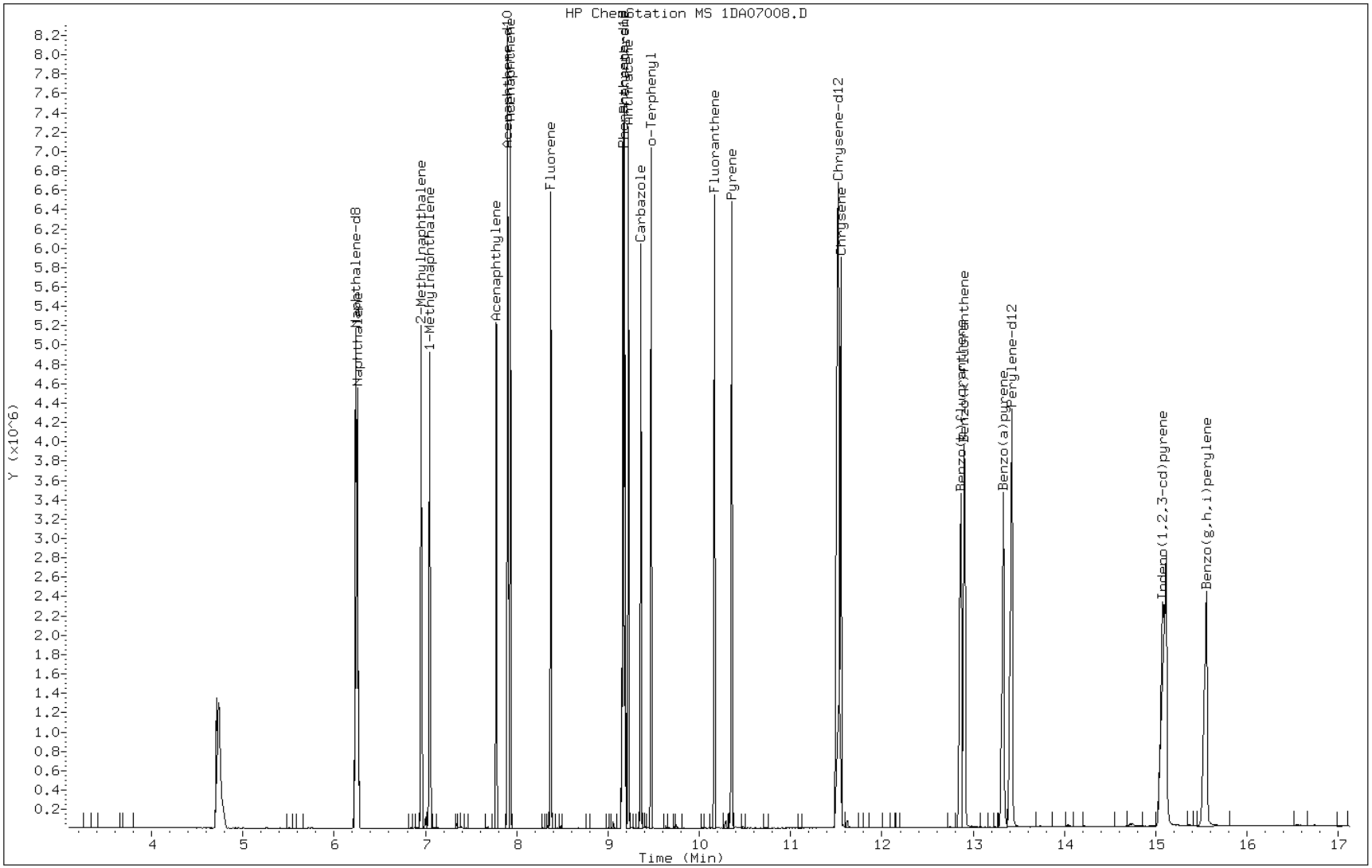
H - Operator selected an alternate compound hit.

Data File: 1DA07008.D

Date: 07-JAN-2013 12:36

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489899 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07009.D
Lab Smp Id: IC-1489900
Inj Date : 07-JAN-2013 12:58
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 12:36 Cal File: 1DA07008.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	6.231	6.231	(1.000)	2635845	40.0000	
* 6 Acenaphthene-d10	164	7.900	7.900	(1.000)	1550449	40.0000	
* 9 Phenanthrene-d10	188	9.163	9.163	(1.000)	2495751	40.0000	
$ 13 o-Terphenyl	230	9.475	9.475	(1.034)	1821099	50.0000	49
* 17 Chrysene-d12	240	11.525	11.525	(1.000)	2455020	40.0000	
* 22 Perylene-d12	264	13.423	13.423	(1.000)	2541536	40.0000	
2 Naphthalene	128	6.255	6.255	(1.004)	3455368	50.0000	50
3 2-Methylnaphthalene	142	6.954	6.954	(1.116)	2191842	50.0000	50
4 1-Methylnaphthalene	142	7.048	7.048	(1.131)	2059513	50.0000	49
5 Acenaphthylene	152	7.777	7.777	(0.984)	3401253	50.0000	51(A)
7 Acenaphthene	154	7.935	7.935	(1.004)	1990525	50.0000	49
8 Fluorene	166	8.376	8.376	(1.060)	2359500	50.0000	49
10 Phenanthrene	178	9.187	9.187	(1.003)	3355969	50.0000	47
11 Anthracene	178	9.228	9.228	(1.007)	3429358	50.0000	49
12 Carbazole	167	9.363	9.363	(1.022)	3068003	50.0000	50
14 Fluoranthene	202	10.168	10.168	(1.110)	3537470	50.0000	50
15 Pyrene	202	10.356	10.356	(0.899)	3756325	50.0000	49
16 Benzo(a)anthracene	228	11.508	11.508	(0.998)	3323349	50.0000	50
18 Chrysene	228	11.555	11.555	(1.003)	3263100	50.0000	47
19 Benzo(b)fluoranthene	252	12.871	12.871	(0.959)	3216419	50.0000	50
20 Benzo(k)fluoranthene	252	12.912	12.912	(0.962)	3338707	50.0000	49
21 Benzo(a)pyrene	252	13.341	13.341	(0.994)	3269544	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276	15.092	15.092	(1.124)	3629982	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278	15.133	15.133	(1.127)	3175644	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276	15.573	15.573	(1.160)	3258091	50.0000	50(AH)

QC Flag Legend

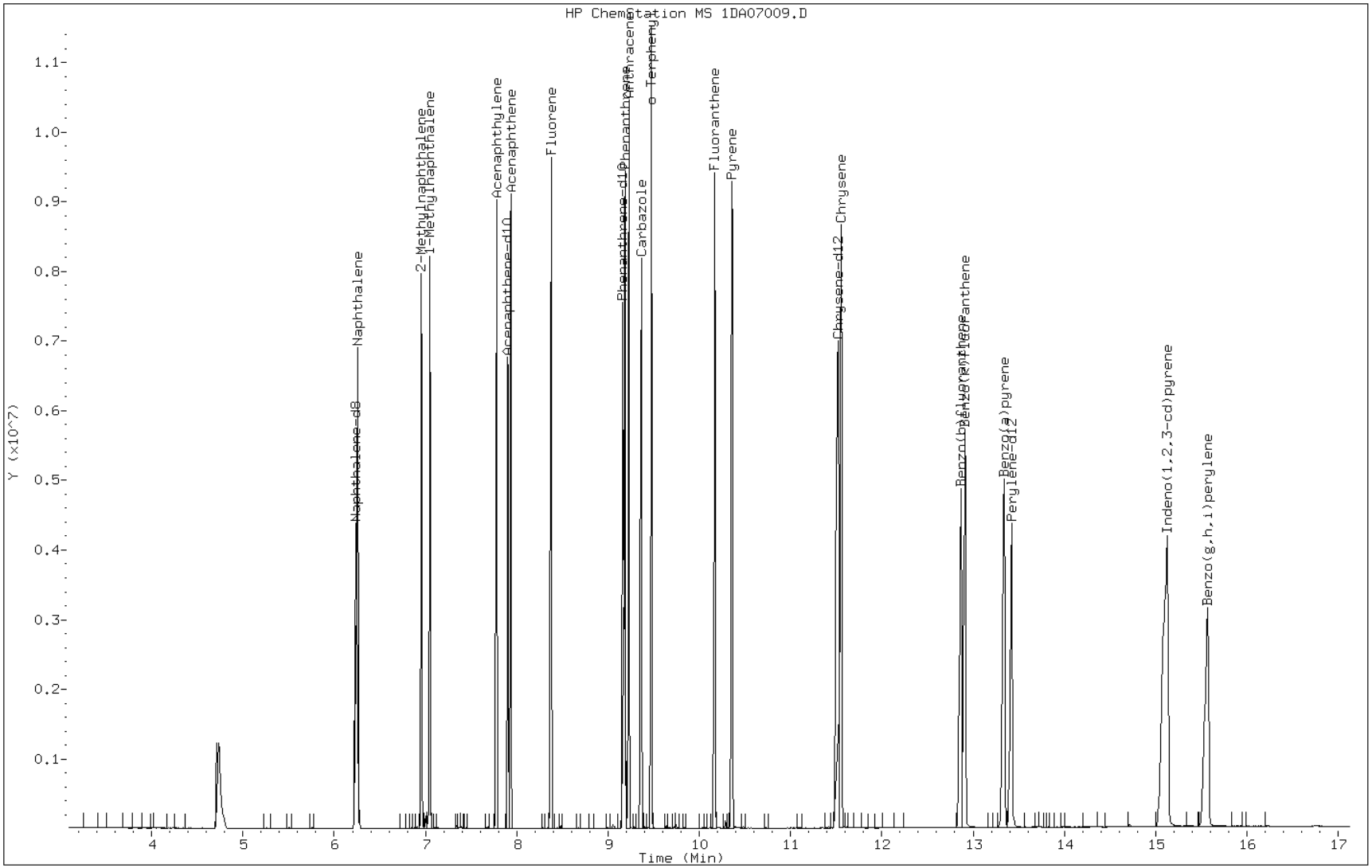
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07009.D

Date: 07-JAN-2013 12:58

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489900 Operator: SCC



Manual Integration Report

Data File: 1DA07009.D
Inj. Date and Time: 07-JAN-2013 12:58
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

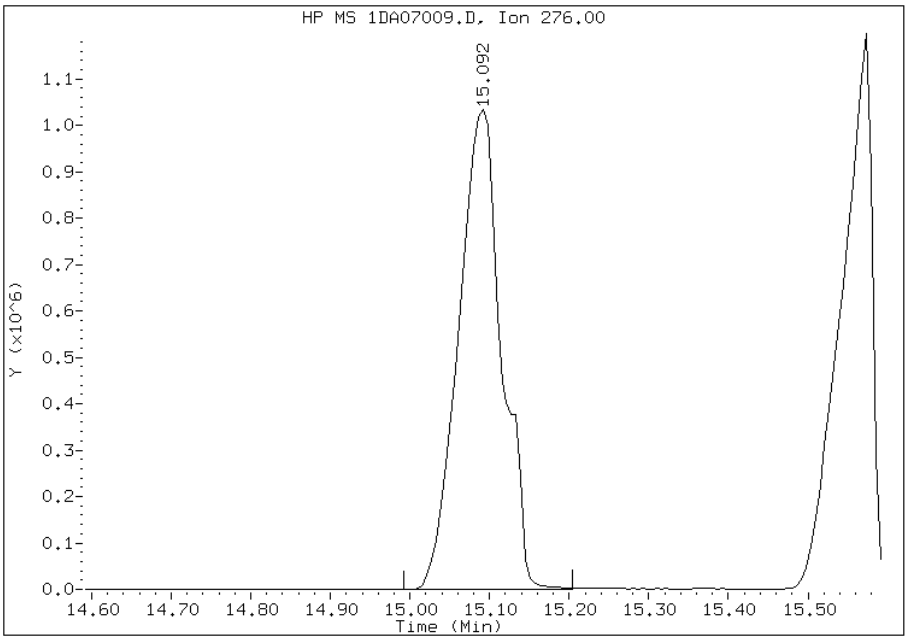
Processing Integration Results

RT: 15.09

Response: 3898805

Amount: 53

Conc: 53



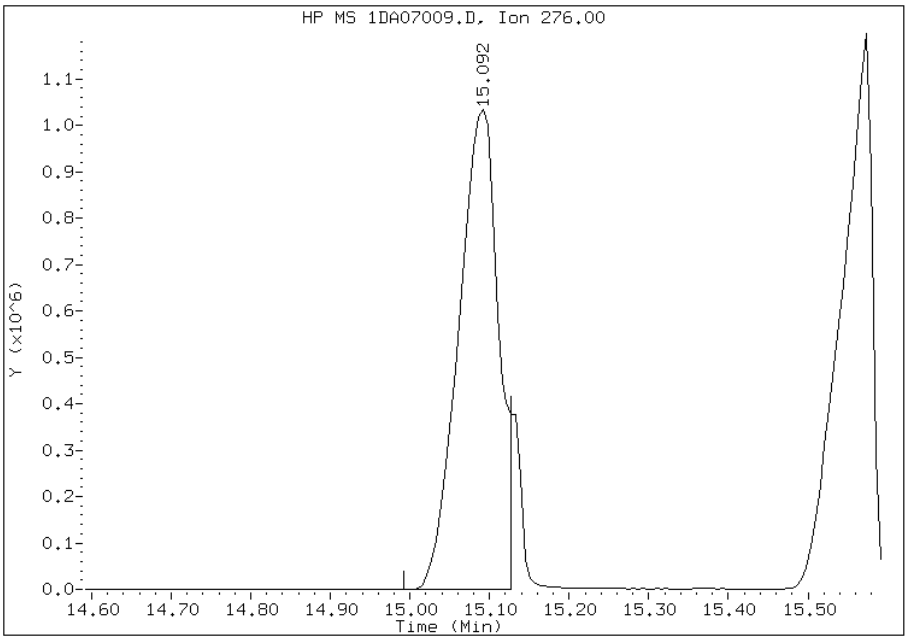
Manual Integration Results

RT: 15.09

Response: 3629982

Amount: 53

Conc: 53



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:48
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Lab Sample ID: ICV 660-133227/10 Calibration Date: 01/07/2013 17:31

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CA07020.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.007	0.0000	19000	20000	-5.0	35.0
2-Methylnaphthalene	Ave	0.6892	0.6589	0.0000	19100	20000	-4.4	35.0
1-Methylnaphthalene	Ave	0.6268	0.6593	0.0000	21000	20000	5.2	35.0
Acenaphthylene	Ave	1.591	1.636	0.0000	20600	20000	2.8	35.0
Acenaphthene	Ave	0.998	0.995	0.0000	19900	20000	-0.3	35.0
Fluorene	Ave	1.281	1.256	0.0000	19600	20000	-1.9	35.0
Phenanthrene	Ave	1.194	1.049	0.0000	17600	20000	-12.2	35.0
Anthracene	Ave	1.076	1.057	0.0000	19700	20000	-1.7	35.0
Carbazole	Ave	0.9344	0.9714	0.0000	20800	20000	4.0	35.0
Fluoranthene	Ave	1.167	1.235	0.0000	21200	20000	5.9	35.0
Pyrene	Ave	1.065	1.062	0.0000	19900	20000	-0.3	35.0
Benzo[a]anthracene	Ave	1.103	1.074	0.0000	19500	20000	-2.6	35.0
Chrysene	Ave	1.139	1.025	0.0000	18000	20000	-10.0	35.0
Benzo[b]fluoranthene	Ave	0.9807	0.9511	0.0000	19400	20000	-3.0	35.0
Benzo[k]fluoranthene	Ave	1.080	1.106	0.0000	20500	20000	2.4	35.0
Benzo[a]pyrene	Ave	0.9332	0.8638	0.0000	18500	20000	-7.4	35.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.8346	0.0000	18600	20000	-6.9	35.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8921	0.0000	21100	20000	5.5	35.0
Benzo[g,h,i]perylene	Ave	0.9104	0.8897	0.0000	19500	20000	-2.3	35.0
o-Terphenyl	Ave	0.5861	0.5611	0.0000	19100	20000	-4.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07020.D
Lab Smp Id: ICV-1448440
Inj Date : 07-JAN-2013 17:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:43 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 20 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	3.869	3.869	(1.000)	2417094	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1838803	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.916	(1.000)	3573060	40.0000	
$ 14 o-Terphenyl	230	6.168	6.169	(1.043)	1002344	19.1457	19.1456
* 18 Chrysene-d12	240	7.868	7.869	(1.000)	4267463	40.0000	
* 23 Perylene-d12	264	9.115	9.116	(1.000)	4342564	40.0000	
2 Naphthalene	128	3.880	3.881	(1.003)	1216880	18.9990	18.9989
3 2-Methylnaphthalene	142	4.310	4.309	(1.114)	796260	19.1194	19.1193
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	796834	21.0373	21.0373
5 Acenaphthylene	152	4.868	4.869	(0.982)	1503892	20.5575	20.5575
7 Acenaphthene	154	4.980	4.975	(1.005)	914978	19.9420	19.9419
9 Fluorene	166	5.298	5.298	(1.069)	1155136	19.6129	19.6129
11 Phenanthrene	178	5.933	5.934	(1.003)	1873312	17.5645	17.5644
12 Anthracene	178	5.963	5.963	(1.008)	1888199	19.6500	19.6500
13 Carbazole	167	6.074	6.075	(1.027)	1735453	20.7921	20.7920
15 Fluoranthene	202	6.774	6.775	(1.145)	2206550	21.1730	21.1730
16 Pyrene	202	6.945	6.945	(0.883)	2266055	19.9459	19.9458

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.862	7.863	(0.999)	2292513	19.4807	19.4807
19 Chrysene	228	7.886	7.892	(1.002)	2187685	17.9970	17.9969
20 Benzo(b)fluoranthene	252	8.739	8.745	(0.959)	2065017	19.3961	19.3961
21 Benzo(k)fluoranthene	252	8.762	8.769	(0.961)	2402437	20.4829	20.4829
22 Benzo(a)pyrene	252	9.051	9.057	(0.993)	1875598	18.5138	18.5138
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.375	(1.137)	1812061	18.6227	18.6226(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	1936939	21.1089	21.1088
26 Benzo(g,h,i)perylene	276	10.750	10.763	(1.179)	1931721	19.5436	19.5436

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CA07020.D

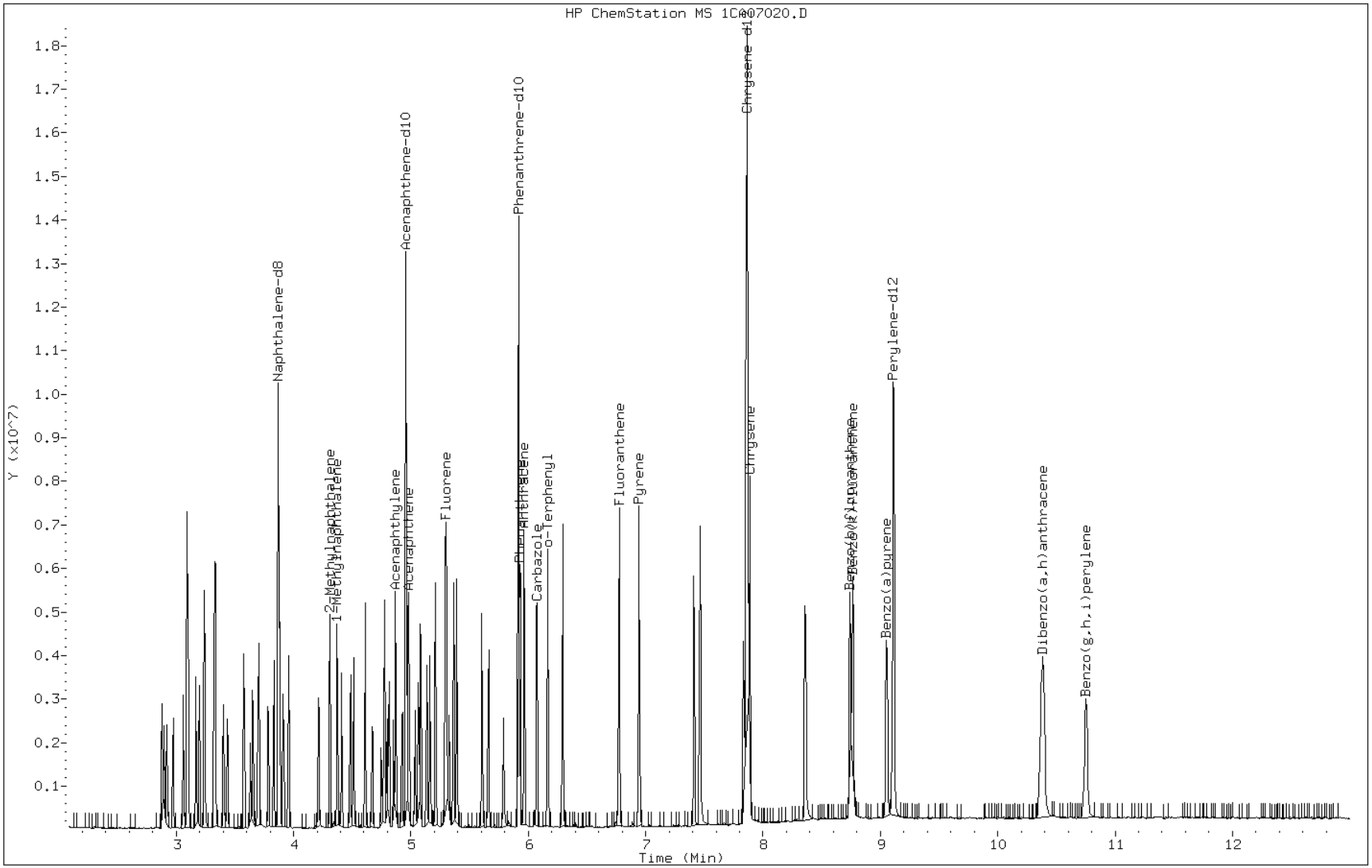
Date: 07-JAN-2013 17:31

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CA07020.D
Inj. Date and Time: 07-JAN-2013 17:31
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

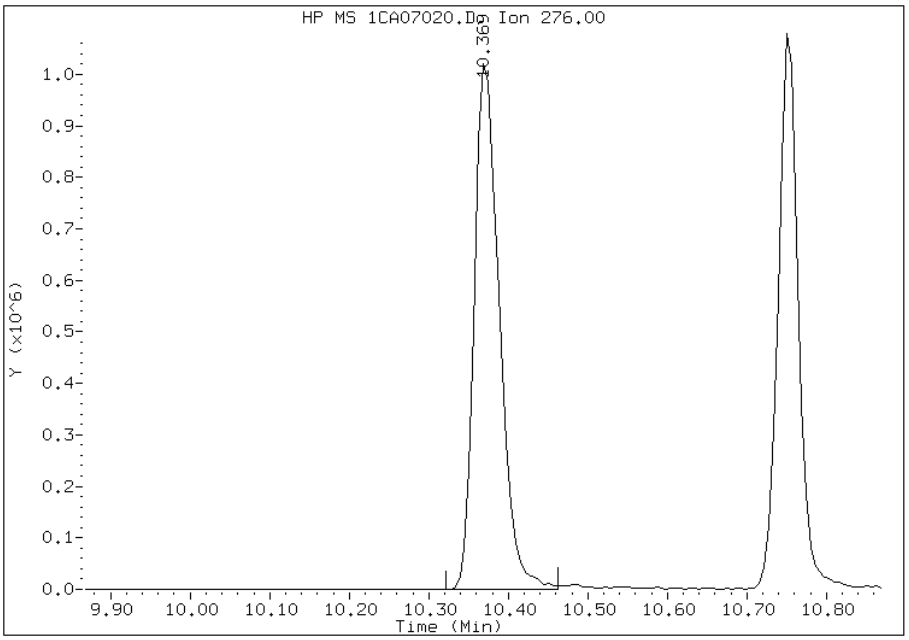
Processing Integration Results

RT: 10.37

Response: 2215563

Amount: 23

Conc: 23



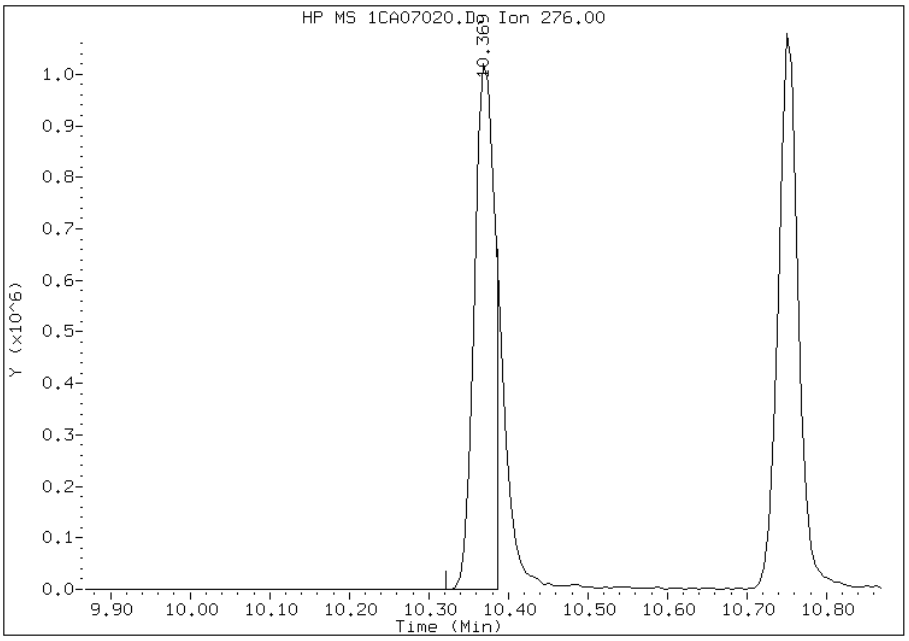
Manual Integration Results

RT: 10.37

Response: 1812061

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:44
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Lab Sample ID: CCVIS 660-134719/3 Calibration Date: 02/21/2013 11:47

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CB21003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.042	0.0000	19700	20000	-1.7	20.0
2-Methylnaphthalene	Ave	0.6892	0.6907	0.0000	20000	20000	0.2	20.0
1-Methylnaphthalene	Ave	0.6268	0.6335	0.0000	20200	20000	1.1	20.0
Acenaphthylene	Ave	1.591	1.616	0.0000	20300	20000	1.5	20.0
Acenaphthene	Ave	0.998	0.9623	0.0000	19300	20000	-3.6	20.0
Fluorene	Ave	1.281	1.236	0.0000	19300	20000	-3.5	20.0
Phenanthrene	Ave	1.194	1.064	0.0000	17800	20000	-10.9	20.0
Anthracene	Ave	1.076	1.056	0.0000	19600	20000	-1.9	20.0
Carbazole	Ave	0.9344	0.9358	0.0000	20000	20000	0.1	20.0
Fluoranthene	Ave	1.167	1.193	0.0000	20500	20000	2.3	20.0
Pyrene	Ave	1.065	1.078	0.0000	20200	20000	1.2	20.0
Benzo[a]anthracene	Ave	1.103	1.033	0.0000	18700	20000	-6.3	20.0
Chrysene	Ave	1.139	1.056	0.0000	18500	20000	-7.3	20.0
Benzo[b]fluoranthene	Ave	0.9807	0.9688	0.0000	19800	20000	-1.2	20.0
Benzo[k]fluoranthene	Ave	1.080	1.110	0.0000	20500	20000	2.7	20.0
Benzo[a]pyrene	Ave	0.9332	0.9801	0.0000	21000	20000	5.0	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.9309	0.0000	20800	20000	3.9	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8405	0.0000	19900	20000	-0.6	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.9099	0.0000	20000	20000	-0.0	20.0
o-Terphenyl	Ave	0.5861	0.5916	0.0000	20200	20000	0.9	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 21-FEB-2013 11:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	3.810	3.810	(1.000)	2244779	40.0000	(H)
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1725884	40.0000	(H)
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	3414107	40.0000	(H)
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	1009917	20.0000	20.1884(H)
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	4147916	40.0000	(H)
* 23 Perylene-d12	264	9.039	9.039	(1.000)	4112157	40.0000	(H)
2 Naphthalene	128	3.821	3.821	(1.003)	1170036	20.0000	19.6698(H)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	775212	20.0000	20.0428(H)
4 1-Methylnaphthalene	142	4.315	4.315	(1.133)	711057	20.0000	20.2137(H)
5 Acenaphthylene	152	4.815	4.815	(0.983)	1394394	20.0000	20.3078(H)
7 Acenaphthene	154	4.921	4.921	(1.005)	830424	20.0000	19.2832(H)
9 Fluorene	166	5.239	5.239	(1.070)	1066986	20.0000	19.3015(H)
11 Phenanthrene	178	5.874	5.874	(1.003)	1816060	20.0000	17.8204(H)
12 Anthracene	178	5.904	5.904	(1.008)	1801911	20.0000	19.6251(H)
13 Carbazole	167	6.015	6.015	(1.027)	1597452	20.0000	20.0297(H)
15 Fluoranthene	202	6.715	6.715	(1.147)	2037217	20.0000	20.4582(H)
16 Pyrene	202	6.886	6.886	(0.882)	2234845	20.0000	20.2380(H)
17 Benzo(a)anthracene	228	7.803	7.803	(0.999)	2143313	20.0000	18.7377(H)
19 Chrysene	228	7.833	7.833	(1.003)	2191125	20.0000	18.5447(H)
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.959)	1991823	20.0000	19.7568(H)
21 Benzo(k)fluoranthene	252	8.698	8.698	(0.962)	2281993	20.0000	20.5461(H)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	2015100	20.0000	21.0053(H)
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.135)	1913990	20.0000	20.7723(MH)
25 Dibenzo(a,h)anthracene	278	10.280	10.280	(1.137)	1728216	20.0000	19.8894(H)
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.176)	1870868	20.0000	19.9885(H)

QC Flag Legend

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

Data File: 1CB21003.D

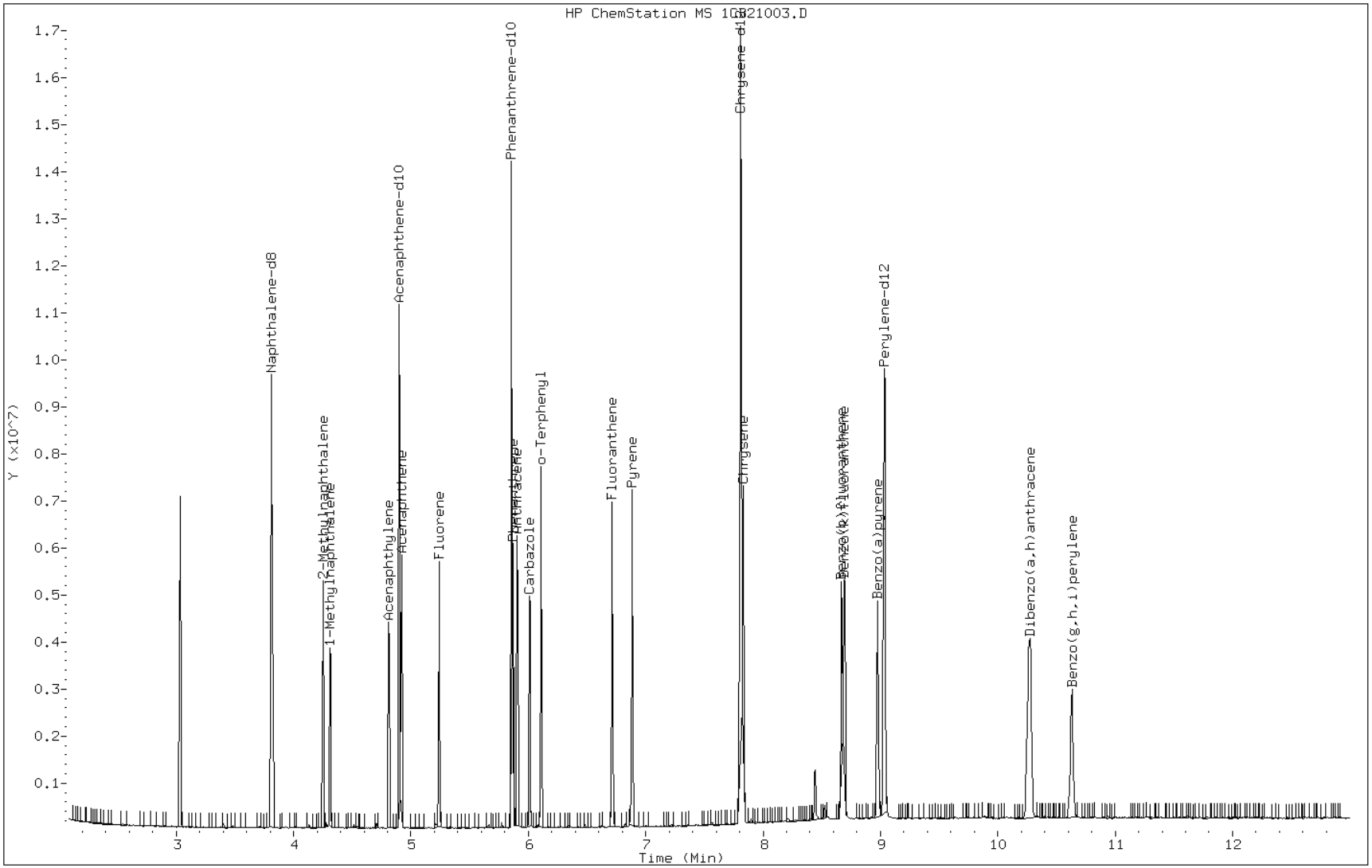
Date: 21-FEB-2013 11:47

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1489898

Operator: SCC



Manual Integration Report

Data File: 1CB21003.D
Inj. Date and Time: 21-FEB-2013 11:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

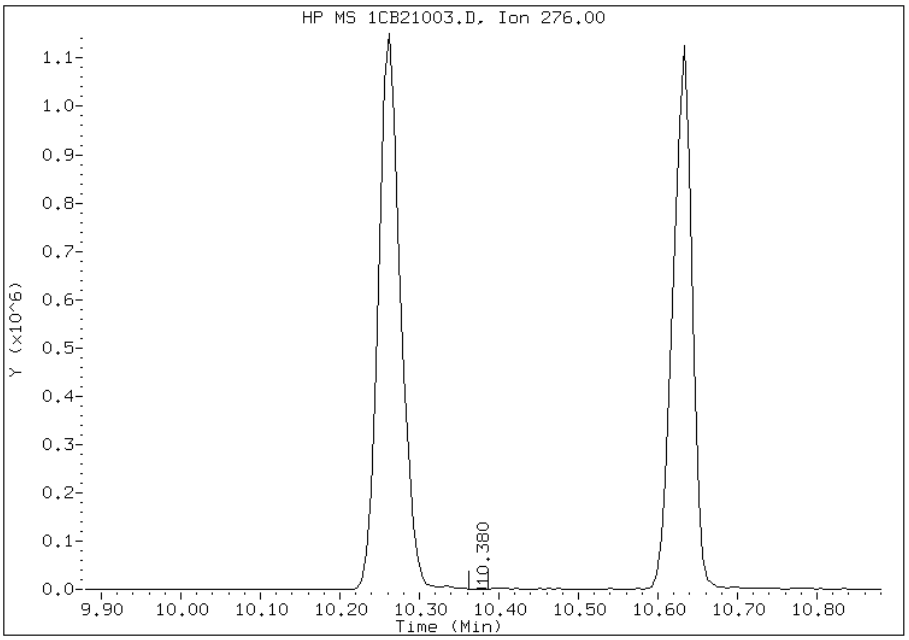
Processing Integration Results

RT: 10.38

Response: 1586

Amount: 0

Conc: 0



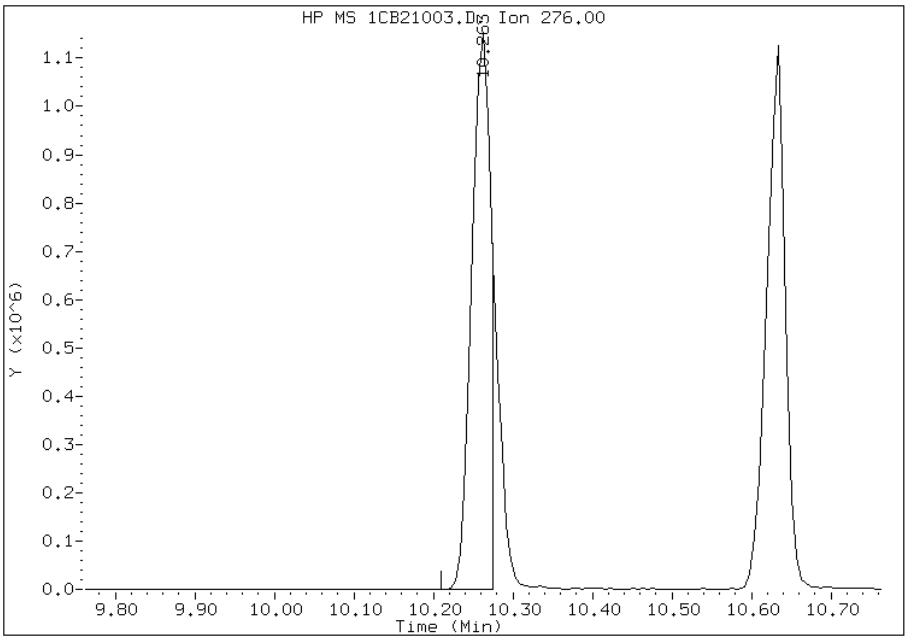
Manual Integration Results

RT: 10.26

Response: 1913990

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 12:02
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Lab Sample ID: ICV 660-133192/10 Calibration Date: 01/07/2013 13:20

Instrument ID: BSMD5973 Calib Start Date: 01/07/2013 10:43

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 12:58

Lab File ID: 1DA07010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.058	1.013	0.0000	19100	20000	-4.3	35.0
2-Methylnaphthalene	Ave	0.6719	0.6636	0.0000	19800	20000	-1.2	35.0
1-Methylnaphthalene	Ave	0.6320	0.6314	0.0000	20000	20000	-0.0	35.0
Acenaphthylene	Ave	1.727	1.728	0.0000	20000	20000	0.0	35.0
Acenaphthene	Ave	1.053	1.018	0.0000	19300	20000	-3.4	35.0
Fluorene	Ave	1.251	1.218	0.0000	19500	20000	-2.7	35.0
Phenanthrene	Ave	1.143	1.025	0.0000	17900	20000	-10.3	35.0
Anthracene	Ave	1.120	1.044	0.0000	18600	20000	-6.8	35.0
Carbazole	Ave	0.9917	0.8873	0.0000	17900	20000	-10.5	35.0
Fluoranthene	Ave	1.145	1.111	0.0000	19400	20000	-3.0	35.0
Pyrene	Ave	1.249	1.160	0.0000	18600	20000	-7.1	35.0
Benzo[a]anthracene	Ave	1.170	1.094	0.0000	18700	20000	-6.5	35.0
Chrysene	Ave	1.127	1.028	0.0000	18200	20000	-8.8	35.0
Benzo[b]fluoranthene	Ave	1.015	0.995	0.0000	19600	20000	-2.0	35.0
Benzo[k]fluoranthene	Ave	1.073	1.046	0.0000	19500	20000	-2.5	35.0
Benzo[a]pyrene	Ave	1.001	0.8964	0.0000	17900	20000	-10.5	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.069	0.9676	0.0000	18100	20000	-9.5	35.0
Dibenz(a,h)anthracene	Ave	0.9805	1.052	0.0000	21500	20000	7.3	35.0
Benzo[g,h,i]perylene	Ave	1.022	0.9893	0.0000	19400	20000	-3.2	35.0
o-Terphenyl	Ave	0.5939	0.5462	0.0000	18400	20000	-8.0	35.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07010.D
Lab Smp Id: ICV-1448440
Inj Date : 07-JAN-2013 13:20
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:51 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.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	6.237	6.232	(1.000)	2887037	40.0000	
* 6 Acenaphthene-d10	164	7.905	7.900	(1.000)	1699245	40.0000	
* 9 Phenanthrene-d10	188	9.163	9.164	(1.000)	2845473	40.0000	
$ 13 o-Terphenyl	230	9.474	9.475	(1.034)	777100	18.3935	18
* 17 Chrysene-d12	240	11.525	11.526	(1.000)	2715172	40.0000	
* 22 Perylene-d12	264	13.422	13.423	(1.000)	2800784	40.0000	
2 Naphthalene	128	6.254	6.255	(1.003)	1461632	19.1436	19
3 2-Methylnaphthalene	142	6.953	6.955	(1.115)	957886	19.7532	20
4 1-Methylnaphthalene	142	7.047	7.049	(1.130)	911441	19.9820	20
5 Acenaphthylene	152	7.776	7.777	(0.984)	1467855	20.0076	20
7 Acenaphthene	154	7.935	7.936	(1.004)	864809	19.3285	19
8 Fluorene	166	8.375	8.375	(1.059)	1034681	19.4627	19
10 Phenanthrene	178	9.180	9.187	(1.002)	1457645	17.9308	18
11 Anthracene	178	9.221	9.228	(1.006)	1485019	18.6447	19
12 Carbazole	167	9.362	9.363	(1.022)	1262422	17.8955	18(M)
14 Fluoranthene	202	10.167	10.168	(1.110)	1580475	19.4089	19
15 Pyrene	202	10.355	10.356	(0.899)	1574825	18.5765	18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.501	11.508	(0.998)	1485600	18.7054	19
18 Chrysene	228	11.548	11.555	(1.002)	1395285	18.2322	18
19 Benzo(b)fluoranthene	252	12.858	12.871	(0.958)	1393918	19.6056	20
20 Benzo(k)fluoranthene	252	12.899	12.912	(0.961)	1464216	19.4970	19
21 Benzo(a)pyrene	252	13.322	13.341	(0.993)	1255249	17.9068	18
23 Indeno(1,2,3-cd)pyrene	276	15.067	15.092	(1.123)	1354952	18.1092	18(H)
24 Dibenzo(a,h)anthracene	278	15.103	15.133	(1.125)	1472756	21.4507	21
25 Benzo(g,h,i)perylene	276	15.543	15.574	(1.158)	1385369	19.3523	19

QC Flag Legend

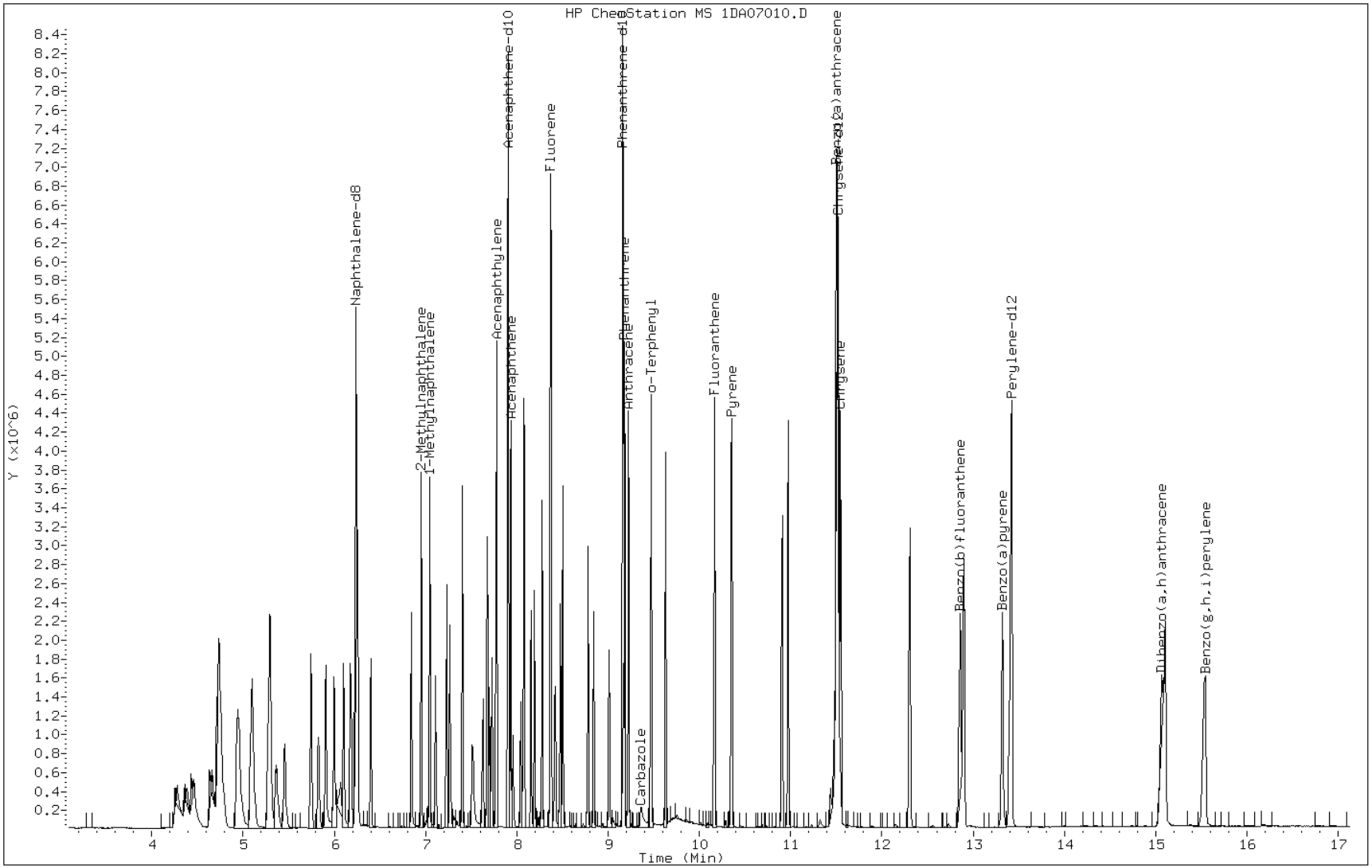
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07010.D

Date: 07-JAN-2013 13:20

Client ID: Instrument: BSMSD.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1DA07010.D
Inj. Date and Time: 07-JAN-2013 13:20
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 01/07/2013

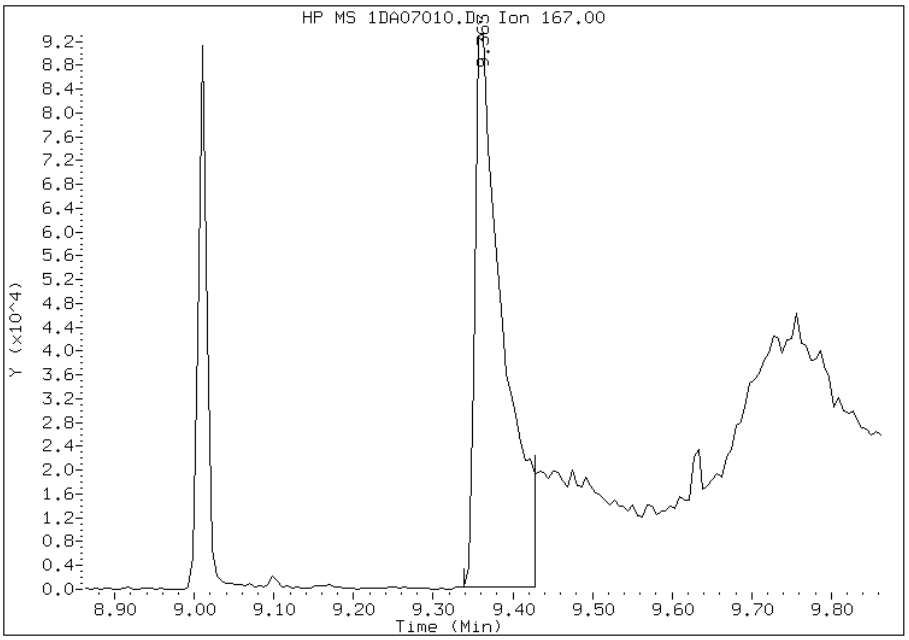
Processing Integration Results

RT: 9.36

Response: 225785

Amount: 3

Conc: 3



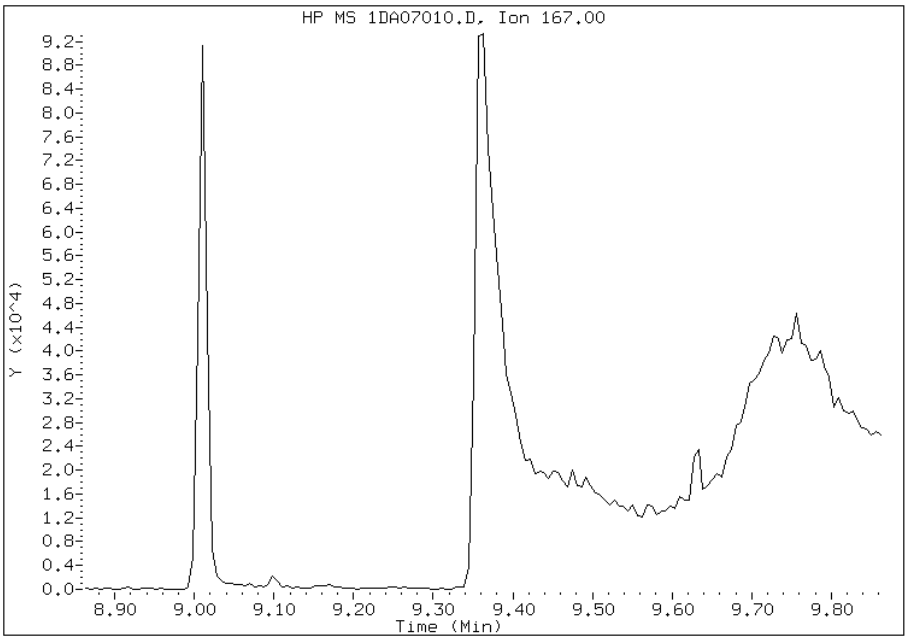
Manual Integration Results

RT: 9.36

Response: 1262422

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:54
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Lab Sample ID: CCVIS 660-134722/3 Calibration Date: 02/21/2013 11:57

Instrument ID: BSMD5973 Calib Start Date: 01/07/2013 10:43

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 12:58

Lab File ID: 1DB21003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.058	1.039	0.0000	19600	20000	-1.8	20.0
2-Methylnaphthalene	Ave	0.6719	0.6709	0.0000	20000	20000	-0.2	20.0
1-Methylnaphthalene	Ave	0.6320	0.6392	0.0000	20200	20000	1.1	20.0
Acenaphthylene	Ave	1.727	1.746	0.0000	20200	20000	1.1	20.0
Acenaphthene	Ave	1.053	1.045	0.0000	19800	20000	-0.8	20.0
Fluorene	Ave	1.251	1.242	0.0000	19900	20000	-0.7	20.0
Phenanthrene	Ave	1.143	1.086	0.0000	19000	20000	-4.9	20.0
Anthracene	Ave	1.120	1.123	0.0000	20100	20000	0.3	20.0
Carbazole	Ave	0.9917	0.9929	0.0000	20000	20000	0.1	20.0
Fluoranthene	Ave	1.145	1.165	0.0000	20400	20000	1.8	20.0
Pyrene	Ave	1.249	1.223	0.0000	19600	20000	-2.1	20.0
Benzo[a]anthracene	Ave	1.170	1.085	0.0000	18500	20000	-7.3	20.0
Chrysene	Ave	1.127	1.084	0.0000	19200	20000	-3.8	20.0
Benzo[b]fluoranthene	Ave	1.015	1.028	0.0000	20300	20000	1.3	20.0
Benzo[k]fluoranthene	Ave	1.073	1.023	0.0000	19100	20000	-4.6	20.0
Benzo[a]pyrene	Ave	1.001	1.017	0.0000	20300	20000	1.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.069	1.077	0.0000	20200	20000	0.8	20.0
Dibenz(a,h)anthracene	Ave	0.9805	0.9932	0.0000	20300	20000	1.3	20.0
Benzo[g,h,i]perylene	Ave	1.022	1.021	0.0000	20000	20000	-0.2	20.0
o-Terphenyl	Ave	0.5939	0.6028	0.0000	20300	20000	1.5	20.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 21-FEB-2013 11:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.195	6.195	(1.000)	4805924	40.0000	
* 6 Acenaphthene-d10	164	7.863	7.863	(1.000)	2903448	40.0000	(H)
* 9 Phenanthrene-d10	188	9.127	9.127	(1.000)	4784360	40.0000	(H)
$ 13 o-Terphenyl	230	9.432	9.432	(1.033)	1442052	20.0000	20(H)
* 17 Chrysene-d12	240	11.477	11.477	(1.000)	4876621	40.0000	(H)
* 22 Perylene-d12	264	13.363	13.363	(1.000)	5208006	40.0000	(H)
2 Naphthalene	128	6.212	6.212	(1.003)	2497025	20.0000	20
3 2-Methylnaphthalene	142	6.912	6.912	(1.116)	1612041	20.0000	20
4 1-Methylnaphthalene	142	7.006	7.006	(1.131)	1536031	20.0000	20
5 Acenaphthylene	152	7.734	7.734	(0.984)	2534822	20.0000	20(H)
7 Acenaphthene	154	7.893	7.893	(1.004)	1517271	20.0000	20(H)
8 Fluorene	166	8.333	8.333	(1.060)	1803452	20.0000	20(H)
10 Phenanthrene	178	9.144	9.144	(1.002)	2598687	20.0000	19(H)
11 Anthracene	178	9.185	9.185	(1.006)	2686494	20.0000	20(H)
12 Carbazole	167	9.320	9.320	(1.021)	2375247	20.0000	20
14 Fluoranthene	202	10.125	10.125	(1.109)	2788067	20.0000	20(H)
15 Pyrene	202	10.313	10.313	(0.899)	2981070	20.0000	20(H)
16 Benzo(a)anthracene	228	11.447	11.447	(0.997)	2645607	20.0000	18(H)
18 Chrysene	228	11.500	11.500	(1.002)	2643903	20.0000	19(H)
19 Benzo(b)fluoranthene	252	12.793	12.793	(0.957)	2677570	20.0000	20(H)
20 Benzo(k)fluoranthene	252	12.840	12.840	(0.961)	2664365	20.0000	19(H)
21 Benzo(a)pyrene	252	13.263	13.263	(0.993)	2649110	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.990	14.990	(1.122)	2805307	20.0000	20(H)
24 Dibenzo(a,h)anthracene	278	15.026	15.026	(1.124)	2586333	20.0000	20(H)
25 Benzo(g,h,i)perylene	276	15.460	15.460	(1.157)	2658053	20.0000	20(H)

QC Flag Legend

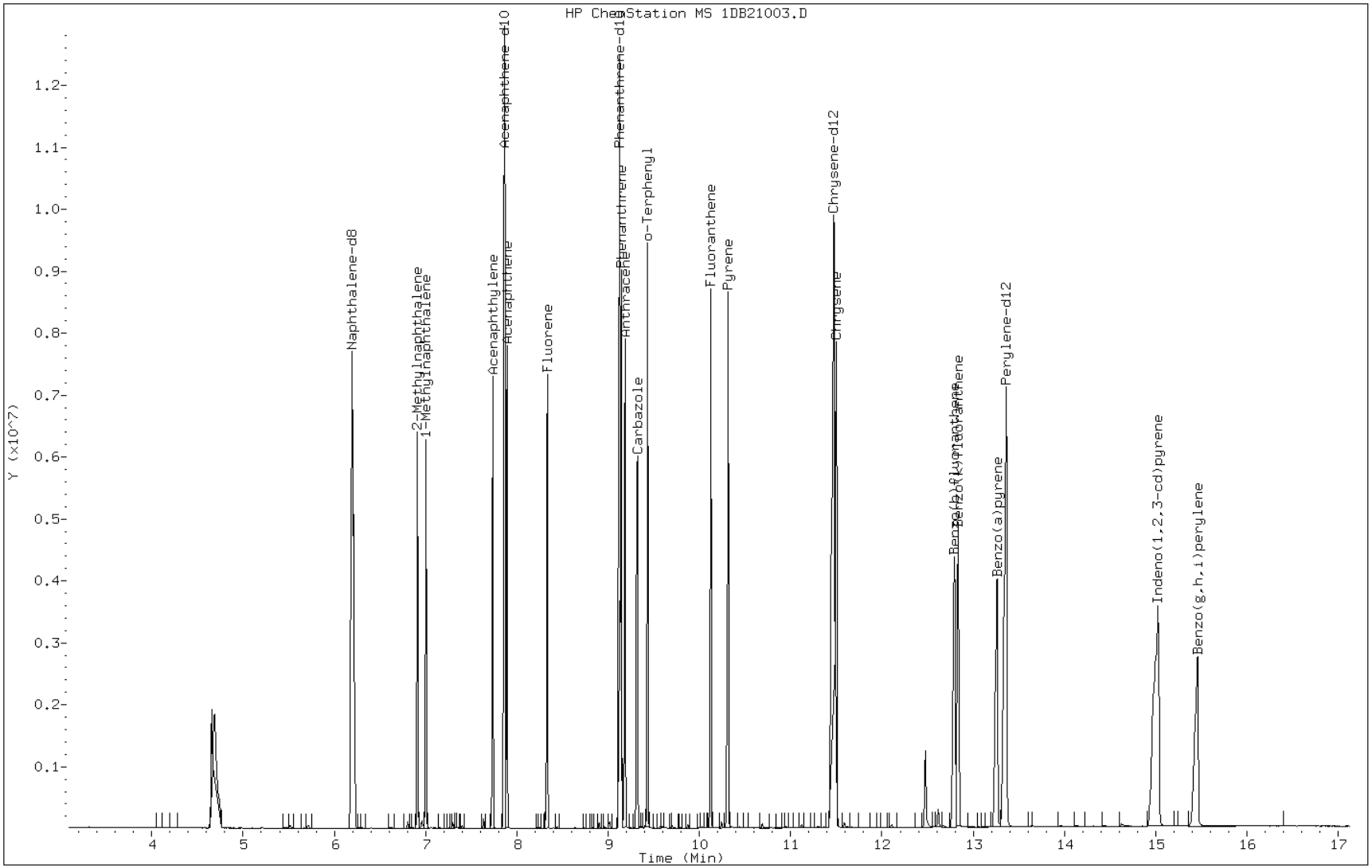
H - Operator selected an alternate compound hit.

Data File: 1DB21003.D

Date: 21-FEB-2013 11:57

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1489898 Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JAN-2013 11:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\c-dftpp198.m
Meth Date : 24-Sep-2012 11:04 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

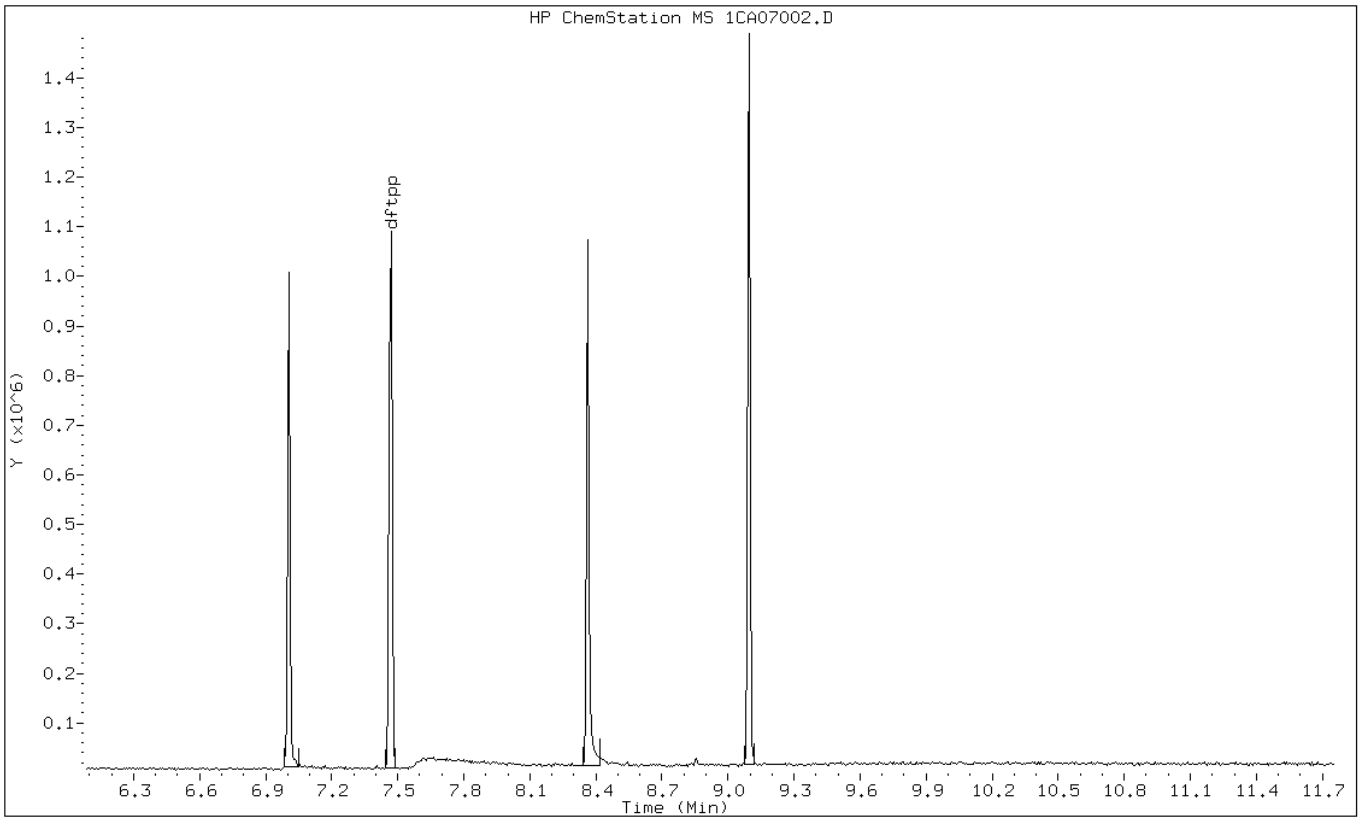
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.469	7.763	-0.294	198	127120			50.00- 0.00	100.00
7.469	7.763	-0.294	51	41280			10.00- 80.00	32.47
7.469	7.763	-0.294	68	533			0.00- 2.00	1.05
7.469	7.763	-0.294	69	50672			0.00- 0.00	39.86
7.469	7.763	-0.294	70	529			0.00- 2.00	1.04
7.469	7.763	-0.294	127	59544			10.00- 80.00	46.84
7.469	7.763	-0.294	197	1231			0.00- 2.00	0.97
7.469	7.763	-0.294	442	114480			50.00- 0.00	90.06
7.469	7.763	-0.294	199	7870			5.00- 9.00	6.19
7.469	7.763	-0.294	275	29224			10.00- 60.00	22.99
7.469	7.763	-0.294	365	3930			1.00- 0.00	3.09
7.469	7.763	-0.294	441	16880			0.01- 99.99	77.01
7.469	7.763	-0.294	443	21920			15.00- 24.00	19.15

Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



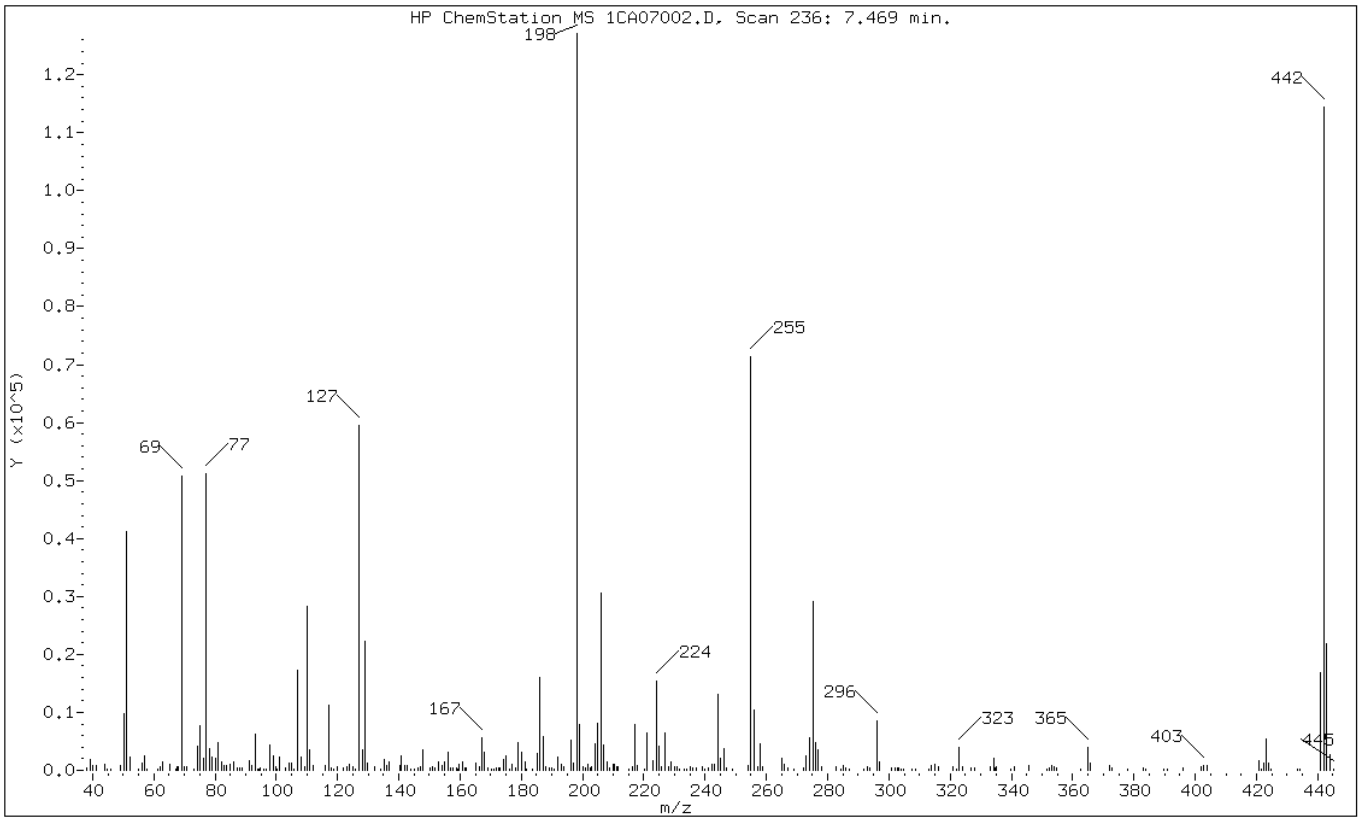
Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

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	32.47
68	Less than 2.00% of mass 69	0.42 (1.05)
69	Mass 69 relative abundance	39.86
70	Less than 2.00% of mass 69	0.42 (1.04)
127	10.00 - 80.00% of mass 198	46.84
197	Less than 2.00% of mass 198	0.97
442	Greater than 50.00% of mass 198	90.06
199	5.00 - 9.00% of mass 198	6.19
275	10.00 - 60.00% of mass 198	22.99
365	Greater than 1.00% of mass 198	3.09
441	Present, but less than mass 443	13.28
443	15.00 - 24.00% of mass 442	17.24 (19.15)

Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07002.D
Spectrum: HP ChemStation MS 1CA07002.D, Scan 236: 7.469 min.
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	420	119.90	601	196.10	5188	285.10	914
39.10	1782	121.80	475	197.10	1231	286.00	390
40.00	839	123.00	633	198.00	127120	287.10	179
41.10	859	124.00	937	199.00	7870	291.80	160
44.10	1108	125.00	669	200.10	670	293.00	589
44.90	152	125.90	258	200.90	482	293.90	453
45.90	156	127.10	59544	201.60	949	296.00	8526
49.00	871	128.10	3506	202.40	400	297.00	1368
50.10	9842	129.10	22208	203.00	538	300.70	479
51.10	41280	129.90	1266	204.00	4533	302.10	418
52.10	2357	132.10	617	205.00	8018	302.90	472
55.00	276	134.10	298	206.10	30592	303.30	414
56.00	1192	135.20	1953	207.00	4423	304.00	250
57.00	2442	136.10	890	208.00	1503	304.90	167
57.90	185	137.00	1425	208.80	471	307.70	155
61.30	188	140.20	914	210.00	937	308.80	244
62.00	685	140.90	2482	210.50	1006	313.00	279
63.00	1392	141.90	797	211.00	696	313.90	813
65.10	1132	142.90	864	211.60	536	315.00	1012
67.10	153	144.10	161	215.00	234	316.00	692
67.70	533	145.10	150	216.10	583	321.00	591
68.10	627	146.20	391	217.00	7970	322.00	171
69.10	50672	147.10	718	217.90	767	323.00	3997
70.10	529	148.00	3470	220.10	248	324.00	655
70.80	521	150.20	424	221.10	6401	327.00	413
73.10	282	151.00	649	222.80	1599	328.10	455
74.10	4253	151.80	327	224.10	15340	333.00	681
75.10	7783	153.00	1468	225.10	4235	334.10	2080
76.20	2092	154.10	806	225.90	587	334.80	423
77.10	51200	155.00	1543	227.00	6494	335.20	609
78.10	3708	156.00	3046	228.00	644	339.70	262
79.10	2279	156.90	385	228.90	1504	341.10	544
80.00	1989	157.80	369	230.00	552	345.80	748
81.00	4740	158.70	485	230.90	613	351.50	280
82.00	1539	159.20	191	231.70	188	352.30	428
82.90	800	159.80	1069	233.10	217	353.10	740
83.90	857	161.00	1449	234.00	303	354.00	654
85.00	1057	161.70	319	235.00	716	354.70	475
86.10	1480	162.10	352	235.90	363	362.50	264
87.10	445	165.00	1236	237.10	461	365.00	3930

87.90	375	166.20	671	238.90	530	365.90	1347
89.00	333	167.00	5703	239.70	227	372.00	894
91.10	1642	168.00	3193	241.00	373	372.90	491
91.90	746	169.00	422	242.10	1013	378.00	155
93.10	6202	170.10	237	243.10	1025	382.90	344
93.80	300	171.00	275	244.10	13028	383.80	260
94.20	188	171.90	443	245.00	2095	389.90	193
94.80	488	172.80	465	246.00	3792	391.00	205
96.10	190	173.10	403	247.10	451	396.00	313
96.90	185	174.20	1825	249.10	154	402.00	707
98.00	4388	175.10	2490	253.90	895	402.90	932
99.00	2420	176.00	265	255.00	71336	404.00	827
99.70	568	176.80	966	256.00	10460	421.00	1613
100.20	212	178.00	357	257.10	645	421.60	223
101.10	2275	179.00	4862	258.00	4542	422.20	1189
103.00	381	180.10	3189	258.80	695	423.00	5417
104.00	1148	181.10	1541	264.90	2158	424.10	1194
105.00	1192	181.80	286	266.00	1029	424.70	185
105.80	271	183.60	157	267.20	353	433.30	241
107.00	17216	185.10	2863	269.00	264	434.10	201
108.00	2207	186.10	15999	272.10	445	441.00	16880
109.20	723	187.10	5787	273.10	2581	442.00	114480
110.00	28384	188.10	556	274.00	5681	443.00	21920
111.00	3607	189.20	469	275.10	29224	444.00	2789
112.10	771	190.10	335	276.00	4836	445.20	272
116.00	796	190.60	276	277.00	3605		
117.00	11205	192.00	2219	278.10	644		
118.00	466	193.00	1058	282.80	642		
118.90	198	194.00	556	284.50	218		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 21-FEB-2013 11:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.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

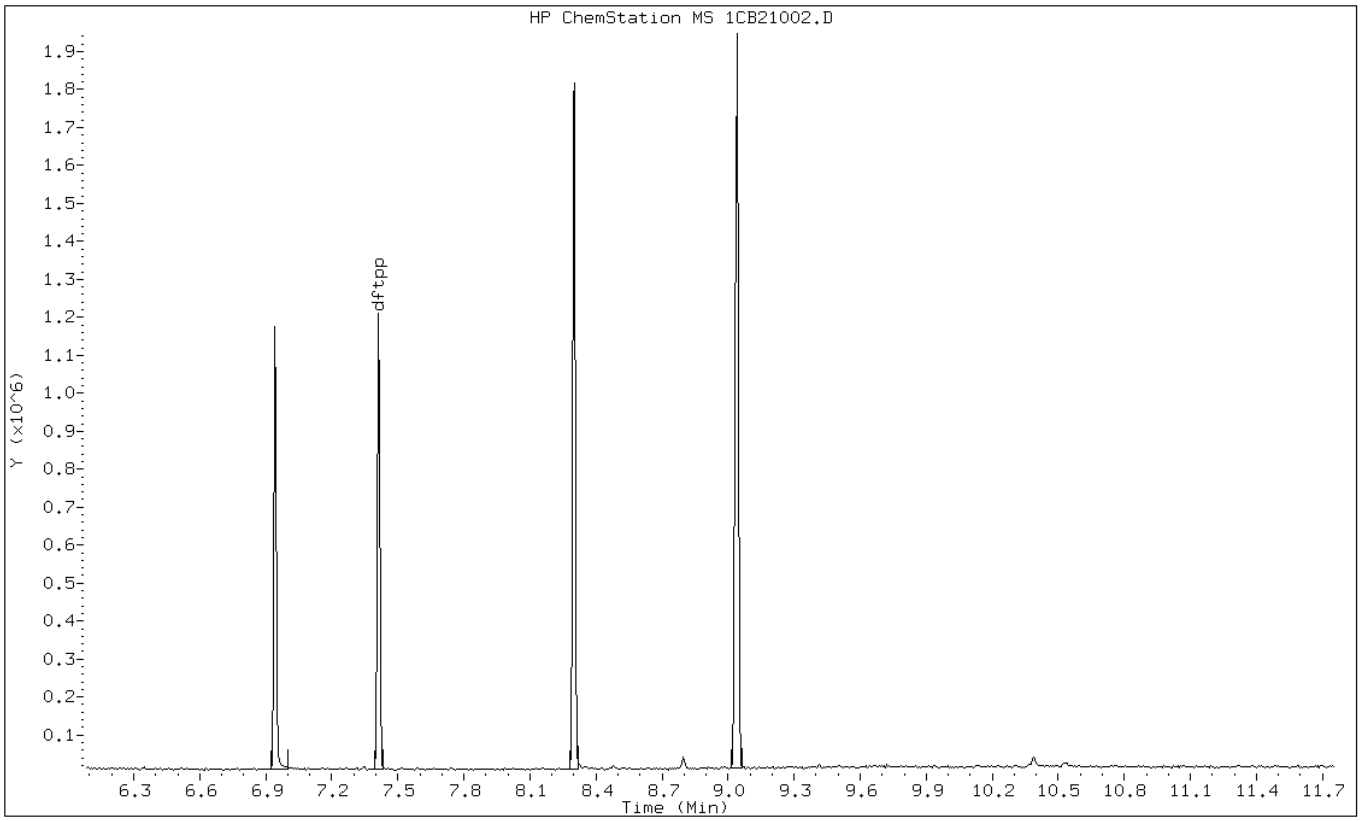
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.410	7.469	-0.059	198	126016			50.00- 0.00	100.00
7.410	7.469	-0.059	51	40084			10.00- 80.00	31.81
7.410	7.469	-0.059	68	894			0.00- 2.00	1.75
7.410	7.469	-0.059	69	51212			0.00- 0.00	40.64
7.410	7.469	-0.059	70	92			0.00- 2.00	0.18
7.410	7.469	-0.059	127	53364			10.00- 80.00	42.35
7.410	7.469	-0.059	197	1064			0.00- 2.00	0.84
7.410	7.469	-0.059	442	118284			50.00- 0.00	93.86
7.410	7.469	-0.059	199	7479			5.00- 9.00	5.93
7.410	7.469	-0.059	275	28392			10.00- 60.00	22.53
7.410	7.469	-0.059	365	4297			1.00- 0.00	3.41
7.410	7.469	-0.059	441	17801			0.01- 99.99	75.00
7.410	7.469	-0.059	443	23736			15.00- 24.00	20.07

Data File: 1CB21002.D

Date: 21-FEB-2013 11:30

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



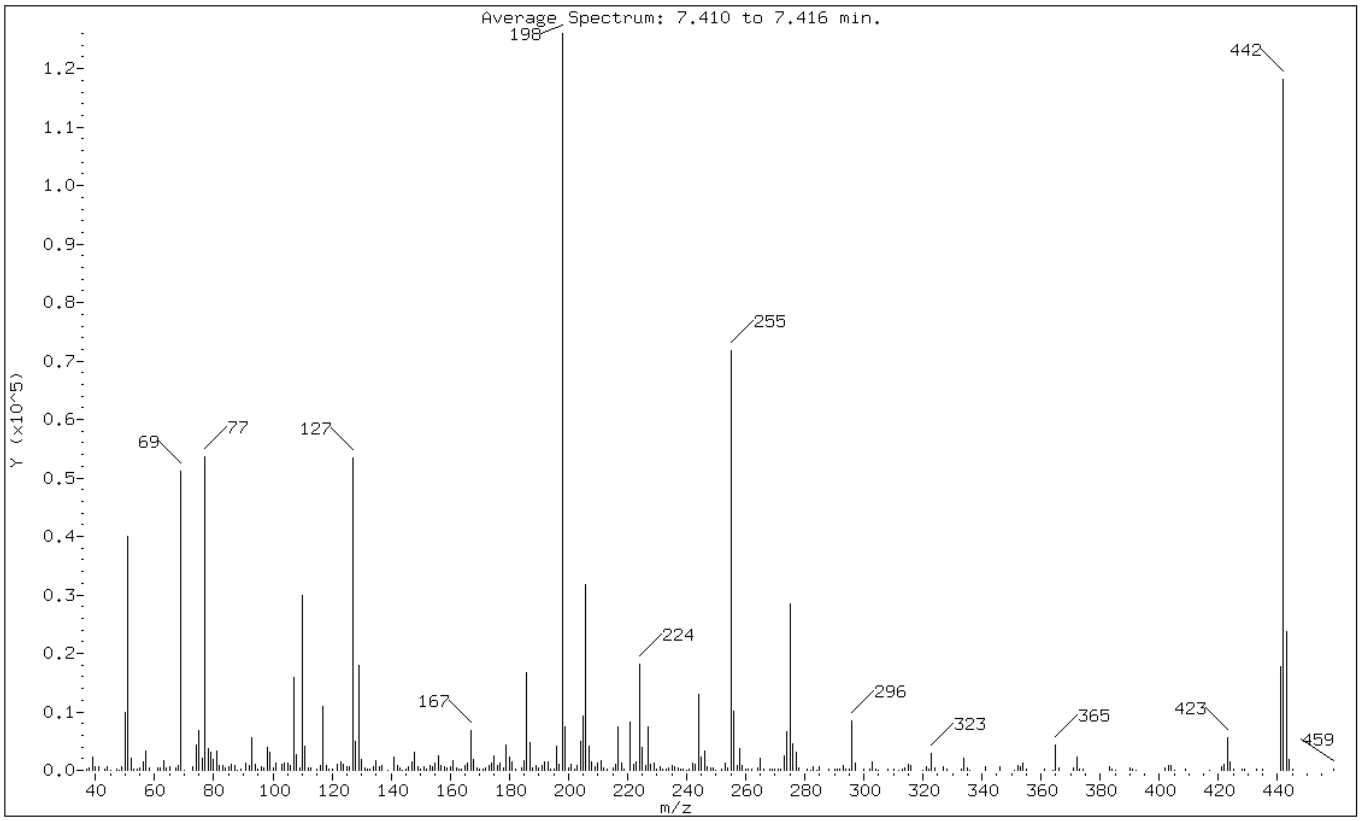
Data File: 1CB21002.D

Date: 21-FEB-2013 11:30

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	31.81
68	Less than 2.00% of mass 69	0.71 (1.75)
69	Mass 69 relative abundance	40.64
70	Less than 2.00% of mass 69	0.07 (0.18)
127	10.00 - 80.00% of mass 198	42.35
197	Less than 2.00% of mass 198	0.84
442	Greater than 50.00% of mass 198	93.86
199	5.00 - 9.00% of mass 198	5.93
275	10.00 - 60.00% of mass 198	22.53
365	Greater than 1.00% of mass 198	3.41
441	Present, but less than mass 443	14.13
443	15.00 - 24.00% of mass 442	18.84 (20.07)

Data File: 1CB21002.D

Date: 21-FEB-2013 11:30

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21002.D
Spectrum: Average Spectrum: 7.410 to 7.416 min.
Location of Maximum: 198.00
Number of points: 302

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	228	124.00	985	203.00	725	288.00	148
38.00	405	125.00	586	204.00	4847	290.00	141
39.00	2259	126.00	591	205.00	9271	291.00	117
40.00	658	127.00	53360	206.00	31832	292.00	124
41.00	540	128.00	5017	207.00	4218	293.00	743
43.00	162	129.00	17960	208.00	1372	294.00	137
44.00	678	130.00	1860	209.00	719	295.00	185
45.00	103	131.00	338	210.00	1214	296.00	8498
47.00	150	132.00	285	211.00	1695	297.00	1187
48.00	77	133.00	267	212.00	330	300.00	112
49.00	705	134.00	700	213.00	226	302.00	237
50.00	9875	135.00	1654	215.00	368	303.00	1483
51.00	40080	136.00	646	216.00	986	304.00	106
52.00	2102	137.00	748	217.00	7445	305.00	84
53.00	241	139.00	88	218.00	1260	308.00	251
54.00	160	141.00	2213	219.00	114	310.00	163
55.00	323	142.00	747	221.00	8332	312.00	76
56.00	1385	143.00	446	222.00	1004	313.00	216
57.00	3309	144.00	75	223.00	1445	314.00	336
58.00	318	145.00	169	224.00	18160	315.00	944
61.00	465	146.00	581	225.00	3993	316.00	829
62.00	413	147.00	1474	226.00	886	320.00	95
63.00	1703	148.00	3098	227.00	7440	321.00	653
64.00	379	149.00	541	228.00	1084	322.00	190
65.00	640	150.00	157	229.00	1258	323.00	2873
67.00	397	151.00	574	230.00	252	324.00	350
68.00	894	152.00	188	231.00	625	327.00	630
69.00	51208	153.00	839	232.00	132	328.00	278
70.00	92	154.00	522	233.00	208	333.00	274
73.00	533	155.00	1317	234.00	412	334.00	1993
74.00	4237	156.00	2552	235.00	768	335.00	462
75.00	6805	157.00	729	236.00	588	336.00	78
76.00	2020	158.00	662	237.00	474	341.00	583
77.00	53584	159.00	355	238.00	252	346.00	702
78.00	3776	160.00	579	239.00	212	351.00	77
79.00	3182	161.00	1716	240.00	85	352.00	924
80.00	1952	162.00	482	241.00	279	353.00	583
81.00	3371	163.00	106	242.00	1188	354.00	1219
82.00	901	164.00	192	243.00	970	355.00	168
83.00	815	165.00	754	244.00	13010	361.00	231

84.00	473	166.00	1194	245.00	2319	364.00	84
85.00	560	167.00	6755	246.00	3295	365.00	4297
86.00	1106	168.00	1943	247.00	579	366.00	461
87.00	764	169.00	454	248.00	340	371.00	398
88.00	75	170.00	170	249.00	450	372.00	2217
89.00	139	171.00	282	250.00	86	373.00	277
91.00	1298	172.00	499	252.00	291	374.00	180
92.00	926	173.00	759	253.00	1179	383.00	667
93.00	5605	174.00	1136	254.00	410	384.00	308
94.00	930	175.00	2388	255.00	71784	385.00	90
95.00	215	176.00	746	256.00	10047	390.00	490
96.00	564	177.00	1322	257.00	910	391.00	276
97.00	399	178.00	486	258.00	3773	392.00	82
98.00	3936	179.00	4430	259.00	892	402.00	423
99.00	3153	180.00	2270	260.00	224	403.00	830
100.00	312	181.00	1349	261.00	136	404.00	758
101.00	1274	182.00	266	262.00	113	405.00	98
103.00	1125	184.00	365	264.00	312	409.00	153
104.00	1327	185.00	1602	265.00	2117	417.00	102
105.00	1138	186.00	16784	266.00	148	421.00	697
106.00	773	187.00	4730	268.00	128	422.00	1123
107.00	15852	188.00	323	269.00	123	423.00	5526
108.00	2625	189.00	894	270.00	192	424.00	1485
109.00	443	190.00	363	271.00	205	425.00	108
110.00	29824	191.00	870	272.00	223	428.00	123
111.00	4086	192.00	1545	273.00	2468	429.00	159
112.00	398	193.00	1464	274.00	6539	433.00	119
113.00	341	194.00	277	275.00	28392	435.00	120
115.00	225	195.00	169	276.00	4484	441.00	17800
116.00	768	196.00	4065	277.00	3186	442.00	118280
117.00	10995	197.00	1064	278.00	373	443.00	23736
118.00	815	198.00	126016	281.00	125	444.00	1792
119.00	269	199.00	7479	282.00	99	445.00	193
120.00	148	200.00	494	283.00	711	459.00	145
122.00	1069	201.00	1021	284.00	91		
123.00	1450	202.00	151	285.00	589		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713_pahIC.b\1DA07002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JAN-2013 09:59
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713_pahIC.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

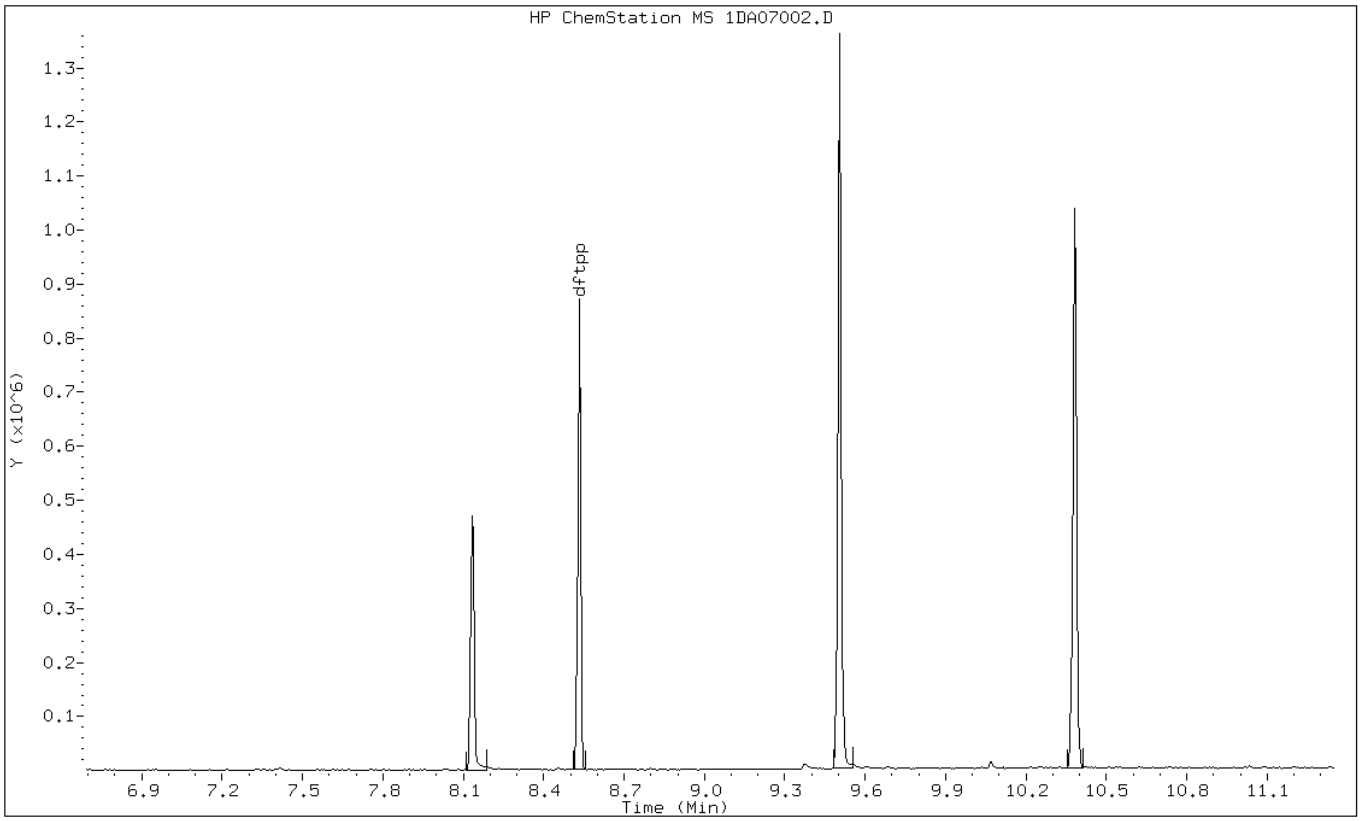
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.532	8.532	0.000	198	76044			50.00- 0.00	100.00
8.532	8.532	0.000	51	33648			10.00- 80.00	44.25
8.532	8.532	0.000	68	0	0.0	0.0	0.00- 2.00	0.00
8.532	8.532	0.000	69	35552			0.00- 0.00	46.75
8.532	8.532	0.000	70	0	0.0	0.0	0.00- 2.00	0.00
8.532	8.532	0.000	127	38568			10.00- 80.00	50.72
8.532	8.532	0.000	197	0	0.0	0.0	0.00- 2.00	0.00
8.532	8.532	0.000	442	51432			50.00- 0.00	67.63
8.532	8.532	0.000	199	4918			5.00- 9.00	6.47
8.532	8.532	0.000	275	19106			10.00- 60.00	25.12
8.532	8.532	0.000	365	2101			1.00- 0.00	2.76
8.532	8.532	0.000	441	1602			0.01- 99.99	15.46
8.532	8.532	0.000	443	10363			15.00- 24.00	20.15

Data File: 1DA07002.D

Date: 07-JAN-2013 09:59

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1490607 | Operator: SCC



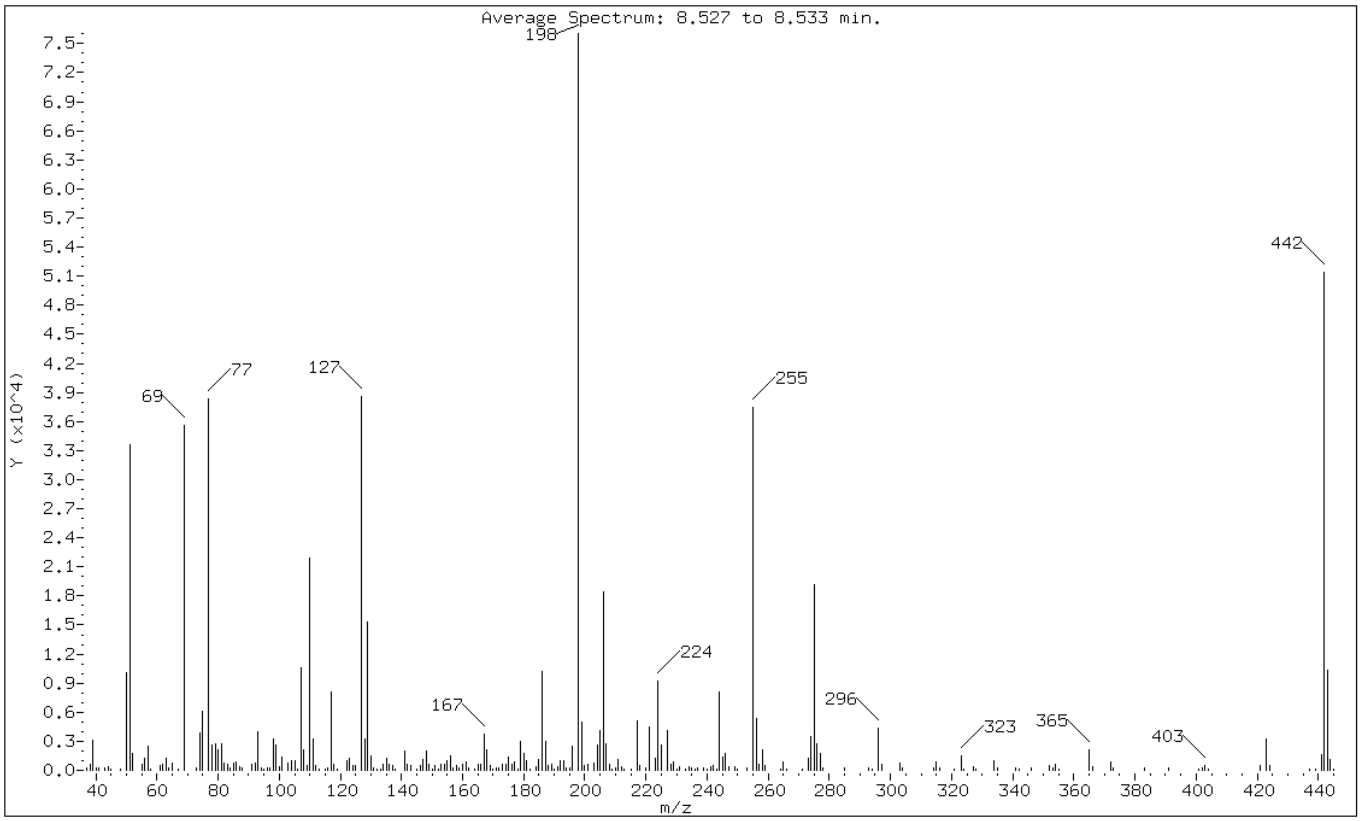
Data File: 1DA07002.D

Date: 07-JAN-2013 09:59

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	44.25
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.75
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.72
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.63
199	5.00 - 9.00% of mass 198	6.47
275	10.00 - 60.00% of mass 198	25.12
365	Greater than 1.00% of mass 198	2.76
441	Present, but less than mass 443	2.11
443	15.00 - 24.00% of mass 442	13.63 (20.15)

Data File: 1DA07002.D

Date: 07-JAN-2013 09:59

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D010713_pahIC.b\1DA07002.D
Spectrum: Average Spectrum: 8.527 to 8.533 min.
Location of Maximum: 198.00
Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	193	115.00	96	182.00	134	256.00	5388
38.00	667	116.00	267	184.00	364	257.00	640
39.00	3097	117.00	8050	185.00	1115	258.00	2094
40.00	299	118.00	620	186.00	10239	259.00	466
41.00	270	119.00	184	187.00	3019	264.00	96
43.00	202	122.00	1017	188.00	462	265.00	872
44.00	334	123.00	1287	189.00	671	266.00	122
45.00	82	124.00	547	190.00	171	271.00	92
48.00	84	125.00	499	191.00	375	273.00	1305
50.00	10020	127.00	38568	192.00	938	274.00	3471
51.00	33648	128.00	3286	193.00	1032	275.00	19104
52.00	1696	129.00	15349	194.00	255	276.00	2787
55.00	593	130.00	1488	195.00	240	277.00	1779
56.00	1215	131.00	251	196.00	2499	278.00	194
57.00	2437	132.00	162	198.00	76040	285.00	251
58.00	99	133.00	113	199.00	4918	293.00	299
61.00	443	134.00	565	200.00	538	294.00	108
62.00	600	135.00	1226	201.00	563	296.00	4384
63.00	1245	136.00	640	203.00	699	297.00	605
64.00	235	137.00	508	204.00	2621	303.00	709
65.00	751	138.00	159	205.00	4100	304.00	189
67.00	82	141.00	2038	206.00	18360	314.00	255
69.00	35552	142.00	650	207.00	2738	315.00	853
73.00	234	143.00	515	208.00	676	316.00	209
74.00	3800	145.00	107	209.00	112	321.00	87
75.00	6072	146.00	446	210.00	236	323.00	1527
77.00	38280	147.00	1143	211.00	1119	324.00	166
78.00	2579	148.00	2041	212.00	325	327.00	382
79.00	2676	149.00	596	213.00	84	328.00	108
80.00	2055	150.00	154	215.00	133	334.00	995
81.00	2799	151.00	525	217.00	5131	335.00	255
82.00	702	152.00	95	218.00	541	341.00	187
83.00	647	153.00	643	220.00	237	342.00	94
84.00	290	154.00	562	221.00	4495	346.00	223
85.00	764	155.00	1000	223.00	1254	352.00	508
86.00	924	156.00	1517	224.00	9148	353.00	211
87.00	368	157.00	298	225.00	2568	354.00	578
88.00	205	158.00	442	227.00	4080	355.00	107
91.00	673	159.00	277	228.00	593	365.00	2101
92.00	770	160.00	659	229.00	894	366.00	316

93.00	4016	161.00	871
94.00	278	162.00	249
95.00	96	164.00	116
96.00	226	165.00	674
97.00	212	166.00	580
98.00	3186	167.00	3751
99.00	2575	168.00	2103
100.00	346	169.00	514
101.00	1391	170.00	106
103.00	718	171.00	241
104.00	949	172.00	311
105.00	1006	173.00	659
106.00	181	174.00	566
107.00	10630	175.00	1332
108.00	2064	176.00	581
109.00	444	177.00	901
110.00	21880	178.00	90
111.00	3177	179.00	2954
112.00	466	180.00	1697
113.00	77	181.00	938

230.00	81	372.00	870
231.00	424	373.00	252
233.00	79	383.00	288
234.00	369	391.00	200
235.00	302	401.00	118
236.00	123	402.00	290
237.00	231	403.00	514
239.00	213	404.00	154
240.00	105	421.00	541
241.00	360	423.00	3193
242.00	508	424.00	520
243.00	141	437.00	81
244.00	8082	439.00	114
245.00	1344	441.00	1602
246.00	1740	442.00	51432
247.00	428	443.00	10363
249.00	351	444.00	1152
250.00	80	445.00	80
253.00	229		
255.00	37424		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 21-FEB-2013 11:40
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.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

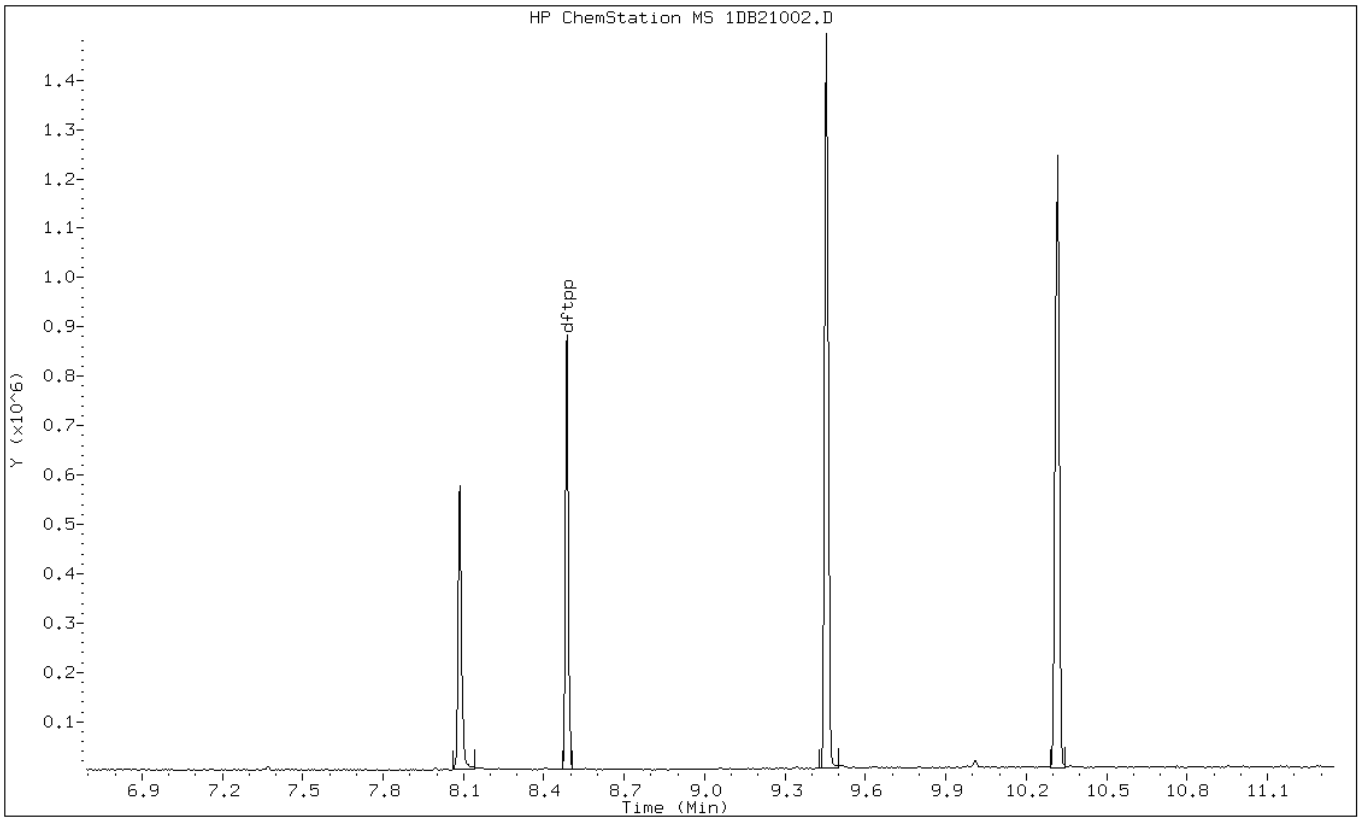
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.488	8.532	-0.044	198	95888			50.00- 0.00	100.00
8.488	8.532	-0.044	51	46192			10.00- 80.00	48.17
8.488	8.532	-0.044	68	0	0.0	0.0	0.00- 2.00	0.00
8.488	8.532	-0.044	69	47688			0.00- 0.00	49.73
8.488	8.532	-0.044	70	315			0.00- 2.00	0.66
8.488	8.532	-0.044	127	50616			10.00- 80.00	52.79
8.488	8.532	-0.044	197	0	0.0	0.0	0.00- 2.00	0.00
8.488	8.532	-0.044	442	58584			50.00- 0.00	61.10
8.488	8.532	-0.044	199	6310			5.00- 9.00	6.58
8.488	8.532	-0.044	275	23920			10.00- 60.00	24.95
8.488	8.532	-0.044	365	2384			1.00- 0.00	2.49
8.488	8.532	-0.044	441	9256			0.01- 99.99	82.71
8.488	8.532	-0.044	443	11191			15.00- 24.00	19.10

Data File: 1DB21002.D

Date: 21-FEB-2013 11:40

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1490607 | Operator: SCC



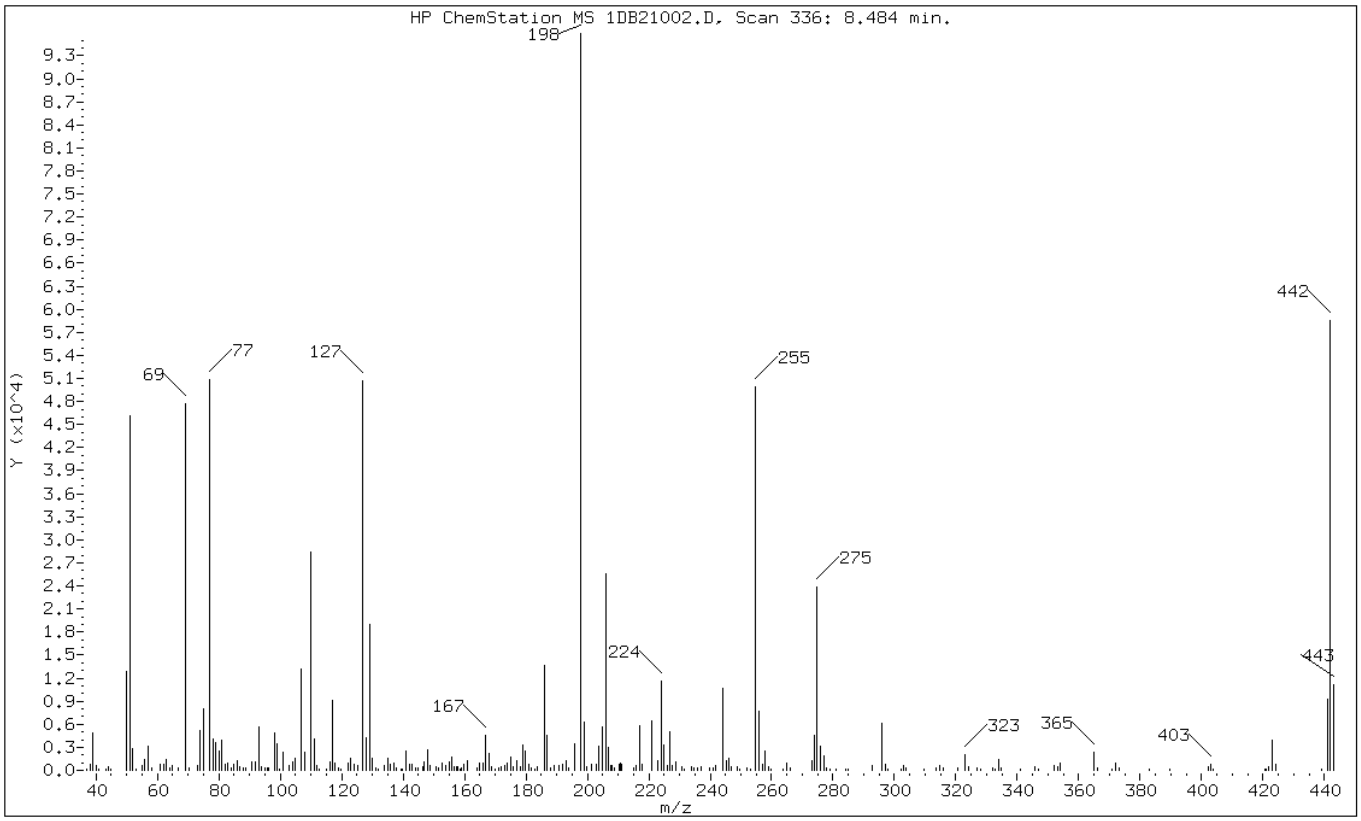
Data File: 1DB21002.D

Date: 21-FEB-2013 11:40

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	48.17
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.73
70	Less than 2.00% of mass 69	0.33 (0.66)
127	10.00 - 80.00% of mass 198	52.79
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	61.10
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 60.00% of mass 198	24.95
365	Greater than 1.00% of mass 198	2.49
441	Present, but less than mass 443	9.65
443	15.00 - 24.00% of mass 442	11.67 (19.10)

Data File: 1DB21002.D

Date: 21-FEB-2013 11:40

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21002.D
Spectrum: HP ChemStation MS 1DB21002.D, Scan 336: 8.484 min.
Location of Maximum: 197.90
Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	201	116.90	9139	182.90	185	264.90	962
38.10	803	117.90	877	183.90	456	265.90	321
39.00	4823	118.90	272	186.00	13707	273.00	1239
40.00	556	119.80	205	186.90	4502	273.90	4577
41.10	207	122.00	913	188.10	304	274.90	23920
43.10	180	123.00	1572	189.10	701	276.00	3208
44.00	427	124.00	760	190.90	605	276.90	1821
44.90	174	125.10	697	191.90	762	277.90	375
50.10	12856	127.00	50616	193.20	1251	279.00	188
51.00	46192	127.90	4309	194.00	304	281.00	218
52.00	2875	129.00	18960	196.00	3391	284.00	155
53.00	165	129.90	1585	197.90	95888	284.90	178
55.00	626	131.00	257	198.90	6310	292.90	592
56.00	1455	132.10	151	199.90	517	295.90	6099
57.00	3179	134.00	563	201.40	745	297.10	764
58.00	297	134.90	1647	202.90	733	297.90	214
61.00	714	136.00	790	203.90	3095	302.10	169
62.00	729	137.10	893	204.90	5619	303.00	706
63.00	1392	137.80	321	206.00	25552	303.90	391
64.00	253	139.20	215	207.00	3056	309.80	158
65.00	621	139.80	216	207.80	602	313.70	240
67.00	298	140.90	2563	208.10	593	314.90	648
69.00	47688	142.00	740	208.90	304	316.00	282
70.20	315	142.90	766	210.20	709	320.80	275
73.10	673	144.00	265	210.80	885	322.90	2098
74.00	5216	145.00	333	211.20	760	324.00	429
75.00	7999	146.30	419	214.90	378	326.90	365
77.00	50784	147.00	1111	215.90	649	328.10	170
78.00	4094	148.00	2710	216.90	5750	332.10	254
79.00	3665	148.90	669	217.90	767	332.60	216
80.00	2577	150.90	418	220.90	6411	334.00	1455
81.00	3990	151.50	367	222.90	1287	334.90	387
82.00	798	152.90	953	224.00	11667	341.00	204
82.90	968	153.90	600	225.00	3370	345.90	462
83.90	270	154.90	1140	225.90	635	347.00	152
84.90	771	156.00	1804	226.90	4999	352.00	669
86.00	1186	156.80	525	227.80	665	353.00	525
86.90	424	157.40	404	229.00	1154	353.90	909
88.10	350	157.90	534	230.90	450	364.90	2384
88.90	252	158.50	170	231.70	160	366.10	367

90.90	1080	159.10	264	233.90	407	370.80	186
91.90	1056	159.90	816	234.80	352	372.00	998
93.00	5683	161.00	1266	235.90	281	373.00	391
93.80	484	163.90	266	236.90	420	382.80	151
95.00	258	165.00	977	239.90	243	389.80	234
95.90	249	165.90	910	240.90	377	402.10	448
96.10	241	167.00	4533	241.90	656	402.90	834
98.00	4879	167.90	2225	244.00	10634	403.90	191
99.00	3465	168.90	524	245.10	1232	420.70	209
99.90	228	170.00	228	246.00	1631	421.00	223
101.00	2380	171.10	347	246.90	425	421.20	233
102.90	642	172.00	464	248.90	514	421.90	411
103.90	1066	173.00	619	249.70	210	423.00	3986
105.00	1530	173.90	942	252.10	236	424.00	783
106.90	13221	174.90	1730	253.00	212	439.00	225
108.00	2411	175.90	522	254.90	49928	441.00	9256
109.90	28480	176.90	1199	256.00	7704	442.00	58584
111.00	4134	178.10	436	257.00	798	443.00	11191
111.80	556	178.90	3328	258.00	2571		
112.70	185	179.90	2512	259.10	503		
114.90	227	181.00	748	259.80	180		
116.10	1028	181.90	299	263.60	211		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87496-2
SDG No.: 68087496-2
Client Sample ID:
Lab Sample ID: MB 660-134660/1-A
Matrix: Solid
Lab File ID: 1CB21029.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/20/2013 11:26
Sample wt/vol: 14.91(g)
Date Analyzed: 02/21/2013 19:44
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.: 134719
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.5	U	8.5	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.1	U	9.1	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21029.D
Lab Smp Id: mb 660-134660/1-a
Inj Date : 21-FEB-2013 19:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134660/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 29 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	14.910	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

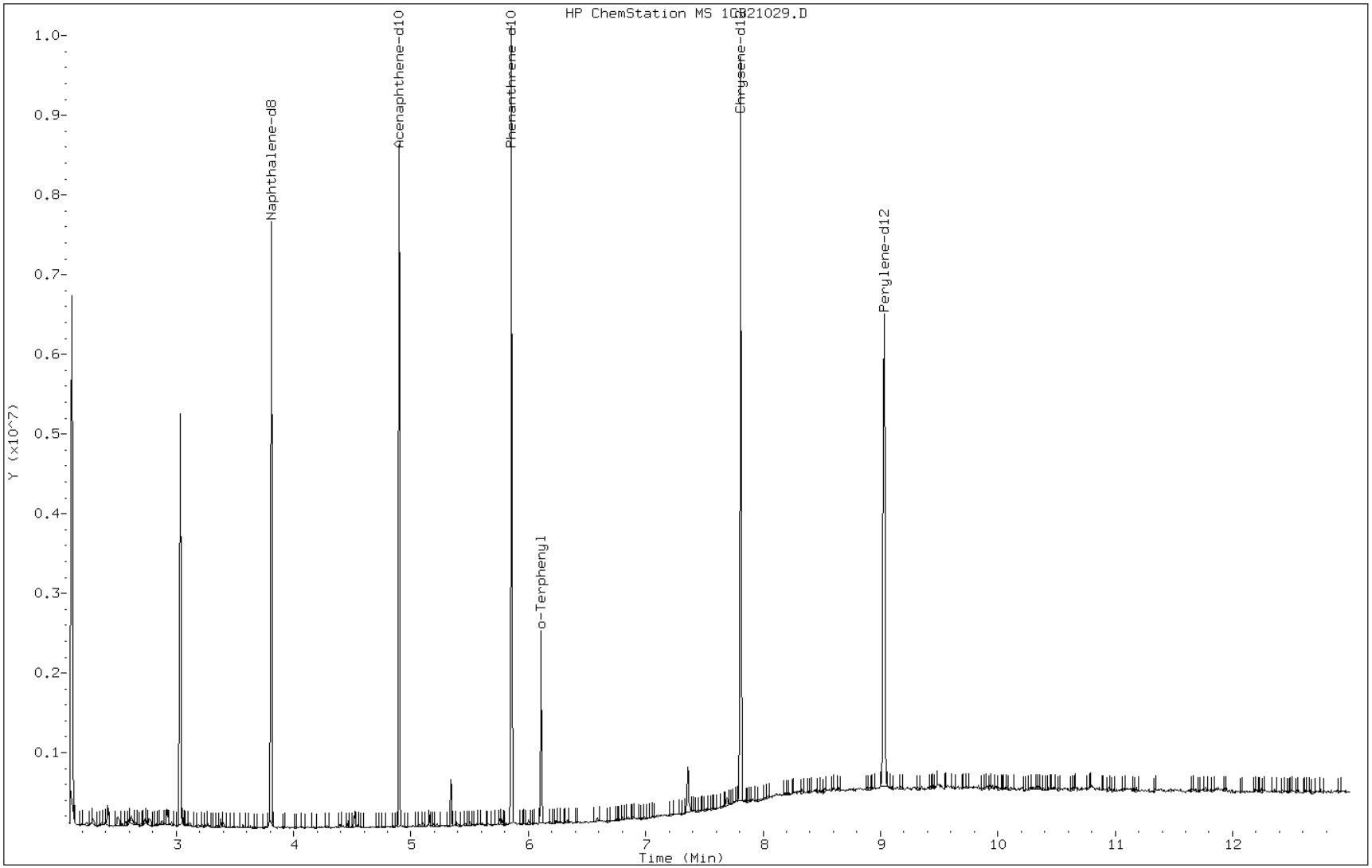
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	1724948	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1301872	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2440753	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	331072	9.25749	620.8914
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2536904	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2325921	40.0000	

Data File: 1CB21029.D

Date: 21-FEB-2013 19:44

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134660/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: | Lab Sample ID: MB 660-134668/1-A

Matrix: Solid | Lab File ID: 1CB21005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 14.93(g) | Date Analyzed: 02/21/2013 12:24

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.: 134719 | Units: ug/Kg

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	100		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21005.D
Lab Smp Id: mb 660-134668/1-a
Inj Date : 21-FEB-2013 12:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134668/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 5 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	14.930	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

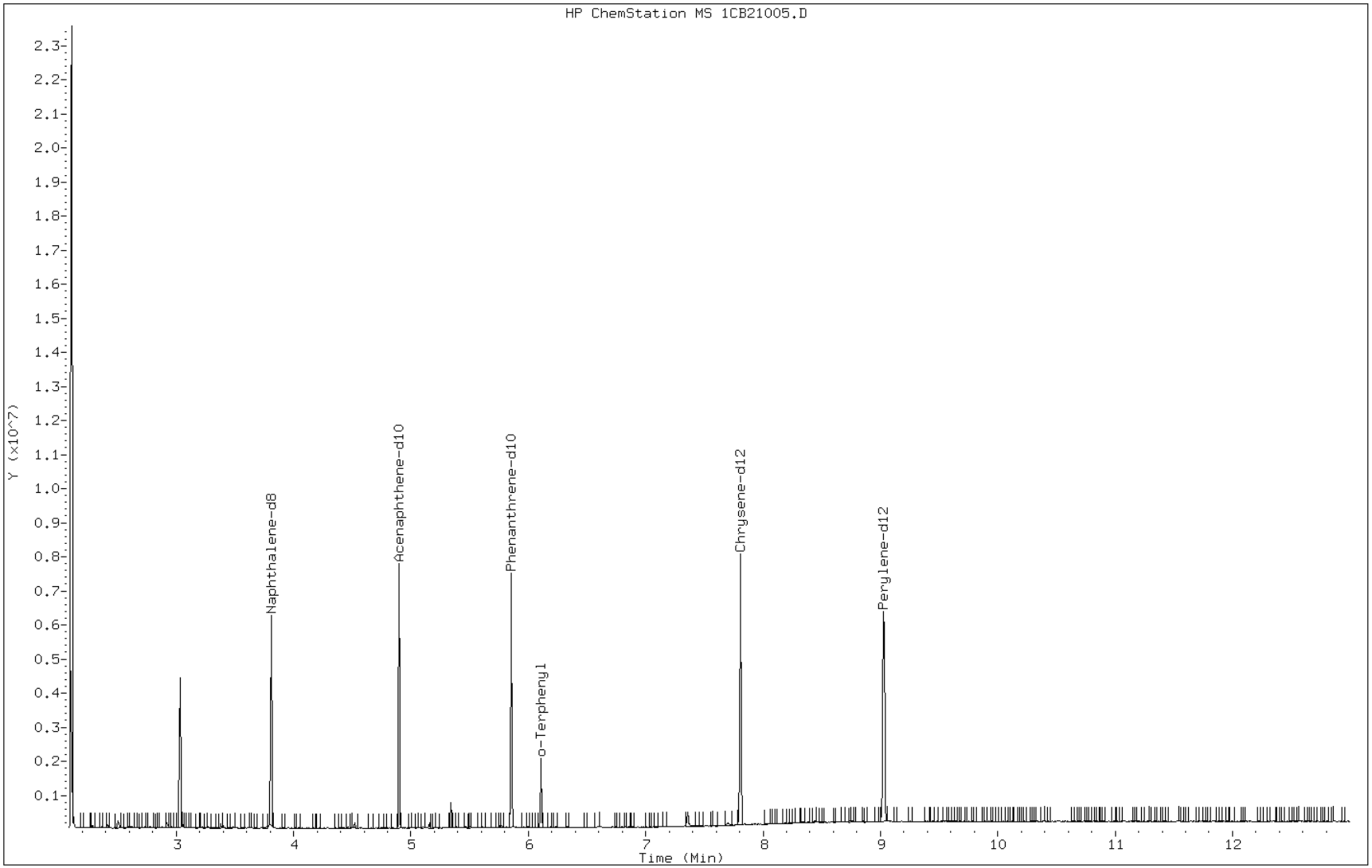
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	1403372	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1052948	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2058614	40.0000	
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	301166	9.98449	668.7532
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2470657	40.0000	
* 23 Perylene-d12	264	9.027	9.039	(1.000)	2521551	40.0000	

Data File: 1CB21005.D

Date: 21-FEB-2013 12:24

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134668/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87496-2
SDG No.: 68087496-2
Client Sample ID:
Lab Sample ID: LCS 660-134660/2-A
Matrix: Solid
Lab File ID: 1CB21030.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/20/2013 11:26
Sample wt/vol: 14.94(g)
Date Analyzed: 02/21/2013 20:03
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.: 134719
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	566		100	20
208-96-8	Acenaphthylene	570		40	5.0
120-12-7	Anthracene	566		8.4	4.2
56-55-3	Benzo[a]anthracene	599		8.0	3.9
50-32-8	Benzo[a]pyrene	586		10	5.2
205-99-2	Benzo[b]fluoranthene	628		12	6.1
191-24-2	Benzo[g,h,i]perylene	573		20	4.4
207-08-9	Benzo[k]fluoranthene	612		8.0	3.6
218-01-9	Chrysene	535		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	562		20	4.1
206-44-0	Fluoranthene	590		20	4.0
86-73-7	Fluorene	538		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	569		20	7.1
90-12-0	1-Methylnaphthalene	598		40	4.4
91-57-6	2-Methylnaphthalene	550		40	7.1
91-20-3	Naphthalene	566		40	4.4
85-01-8	Phenanthrene	515		8.0	3.9
129-00-0	Pyrene	653		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21030.D
Lab Smp Id: lcs 660-134660/2-a
Inj Date : 21-FEB-2013 20:03
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134660/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 30 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	14.940	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	3.810	3.810	(1.000)	1731452	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1358499	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2477054	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	314375	8.66178	579.7711
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	2657559	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2428256	40.0000	
2 Naphthalene	128	3.822	3.821	(1.003)	388137	8.45961	566.2386
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	245051	8.21407	549.8039
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	242316	8.93075	597.7745
5 Acenaphthylene	152	4.810	4.815	(0.982)	459878	8.50888	569.5370
7 Acenaphthene	154	4.921	4.921	(1.005)	286522	8.45262	565.7710
9 Fluorene	166	5.239	5.239	(1.070)	349560	8.03354	537.7203
11 Phenanthrene	178	5.868	5.874	(1.002)	568373	7.68712	514.5325
12 Anthracene	178	5.904	5.904	(1.008)	563182	8.45413	565.8724

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	542253	9.37114	627.2513
15 Fluoranthene	202	6.715	6.715	(1.147)	636493	8.80983	589.6805
16 Pyrene	202	6.880	6.886	(0.881)	690724	9.76279	653.4662
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	655602	8.94582	598.7830
19 Chrysene	228	7.827	7.833	(1.002)	605165	7.99421	535.0877
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	558901	9.38810	628.3869
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	600039	9.14895	612.3796
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	496062	8.75678	586.1298
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	462631	8.50267	569.1213(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	430634	8.39284	561.7700
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	473012	8.55824	572.8407

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB21030.D

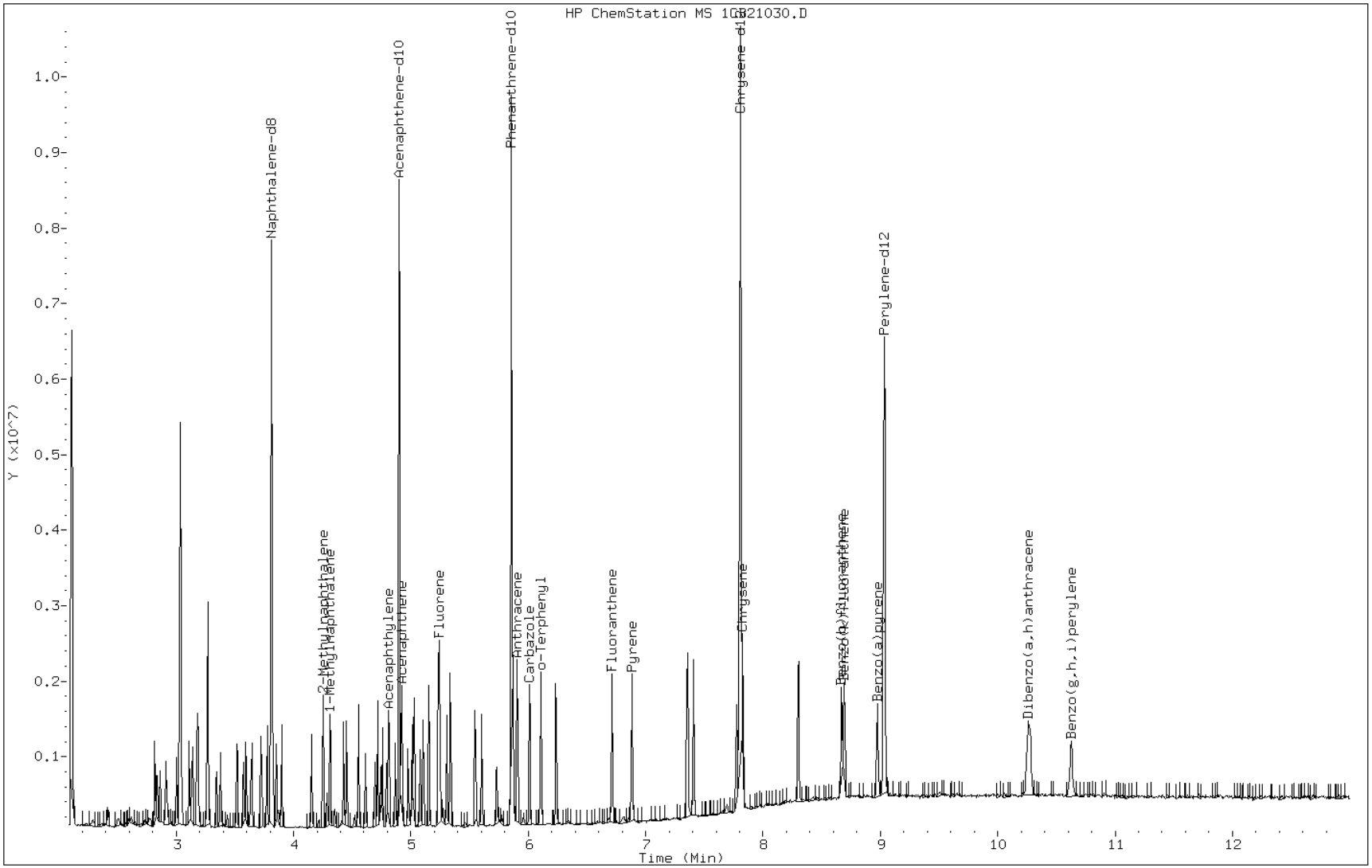
Date: 21-FEB-2013 20:03

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-134660/2-a

Operator: SCC



Manual Integration Report

Data File: 1CB21030.D
Inj. Date and Time: 21-FEB-2013 20:03
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

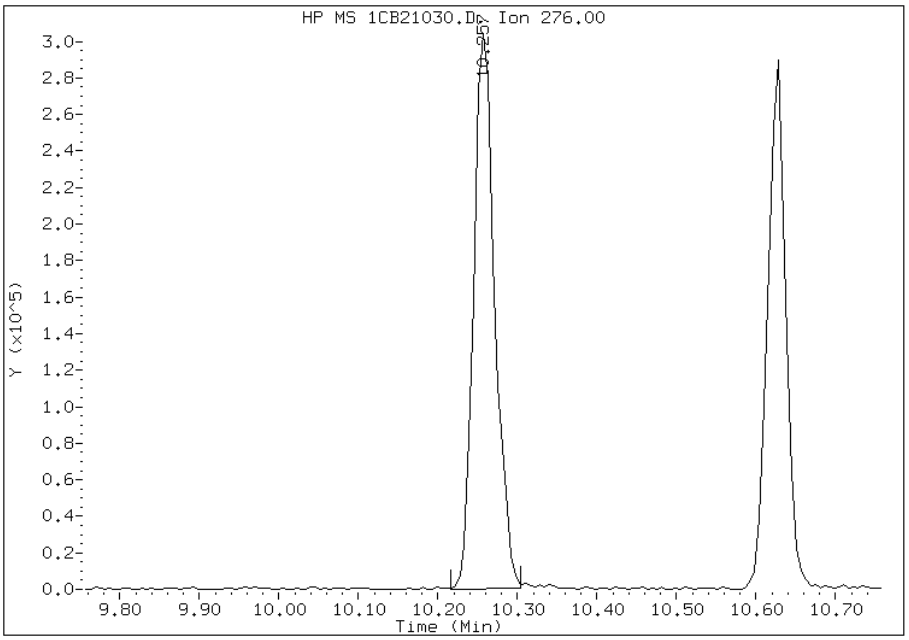
Processing Integration Results

RT: 10.26

Response: 557642

Amount: 10

Conc: 686



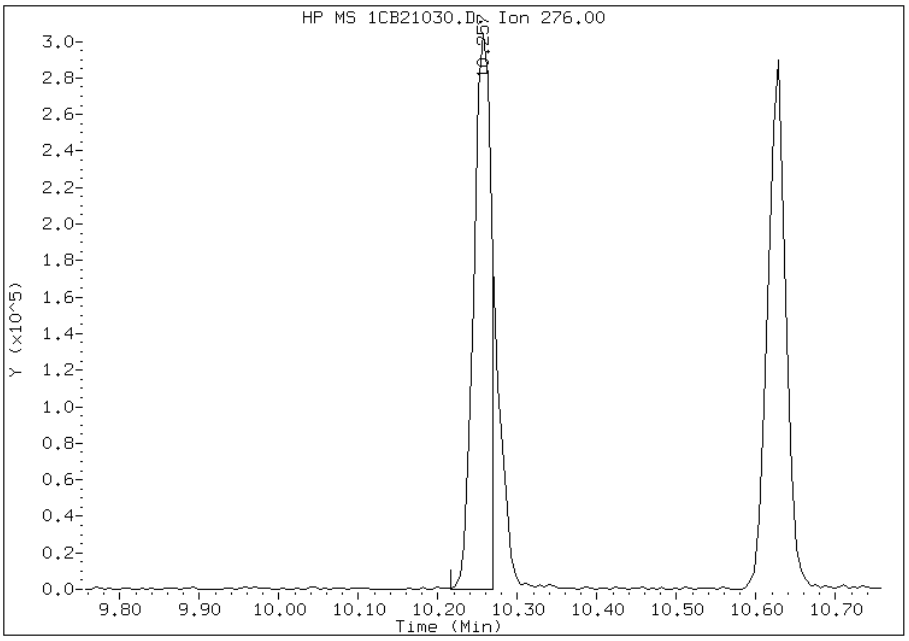
Manual Integration Results

RT: 10.26

Response: 462631

Amount: 9

Conc: 569



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 11:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87496-2
SDG No.: 68087496-2
Client Sample ID:
Lab Sample ID: LCS 660-134668/2-A
Matrix: Solid
Lab File ID: 1CB21006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/20/2013 13:23
Sample wt/vol: 15.01(g)
Date Analyzed: 02/21/2013 12:42
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.: 134719
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	629		100	20
208-96-8	Acenaphthylene	634		40	5.0
120-12-7	Anthracene	617		8.4	4.2
56-55-3	Benzo[a]anthracene	656		8.0	3.9
50-32-8	Benzo[a]pyrene	646		10	5.2
205-99-2	Benzo[b]fluoranthene	670		12	6.1
191-24-2	Benzo[g,h,i]perylene	638		20	4.4
207-08-9	Benzo[k]fluoranthene	622		8.0	3.6
218-01-9	Chrysene	589		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	676		20	4.1
206-44-0	Fluoranthene	686		20	4.0
86-73-7	Fluorene	618		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	618		20	7.1
90-12-0	1-Methylnaphthalene	655		40	4.4
91-57-6	2-Methylnaphthalene	603		40	7.1
91-20-3	Naphthalene	599		40	4.4
85-01-8	Phenanthrene	565		8.0	3.9
129-00-0	Pyrene	654		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	98		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21006.D
Lab Smp Id: lcs 660-134668/2-a
Inj Date : 21-FEB-2013 12:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134668/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 6 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	15.010	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	3.810	3.810	(1.000)	1435517	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1139256	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2227952	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	319277	9.78040	651.5920
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	2649640	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2710208	40.0000	
2 Naphthalene	128	3.822	3.821	(1.003)	342148	8.99459	599.2395
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	223760	9.04662	602.7065
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	221274	9.83645	655.3264
5 Acenaphthylene	152	4.810	4.815	(0.982)	431146	9.51245	633.7406
7 Acenaphthene	154	4.921	4.921	(1.005)	268192	9.43446	628.5451
9 Fluorene	166	5.239	5.239	(1.070)	338711	9.28224	618.4035
11 Phenanthrene	178	5.868	5.874	(1.002)	563781	8.47755	564.7931
12 Anthracene	178	5.904	5.904	(1.008)	554749	9.25863	616.8305

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	541229	10.3992	692.8197
15 Fluoranthene	202	6.715	6.715	(1.147)	669421	10.3016	686.3127
16 Pyrene	202	6.880	6.886	(0.881)	692950	9.82352	654.4650
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	719063	9.84108	655.6349
19 Chrysene	228	7.827	7.833	(1.002)	667549	8.84466	589.2510
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	668291	10.0577	670.0691
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	683241	9.33378	621.8375
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	613229	9.69891	646.1633
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	563459	9.27844	618.1504(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	580763	10.1413	675.6331
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	590897	9.57891	638.1684

QC Flag Legend

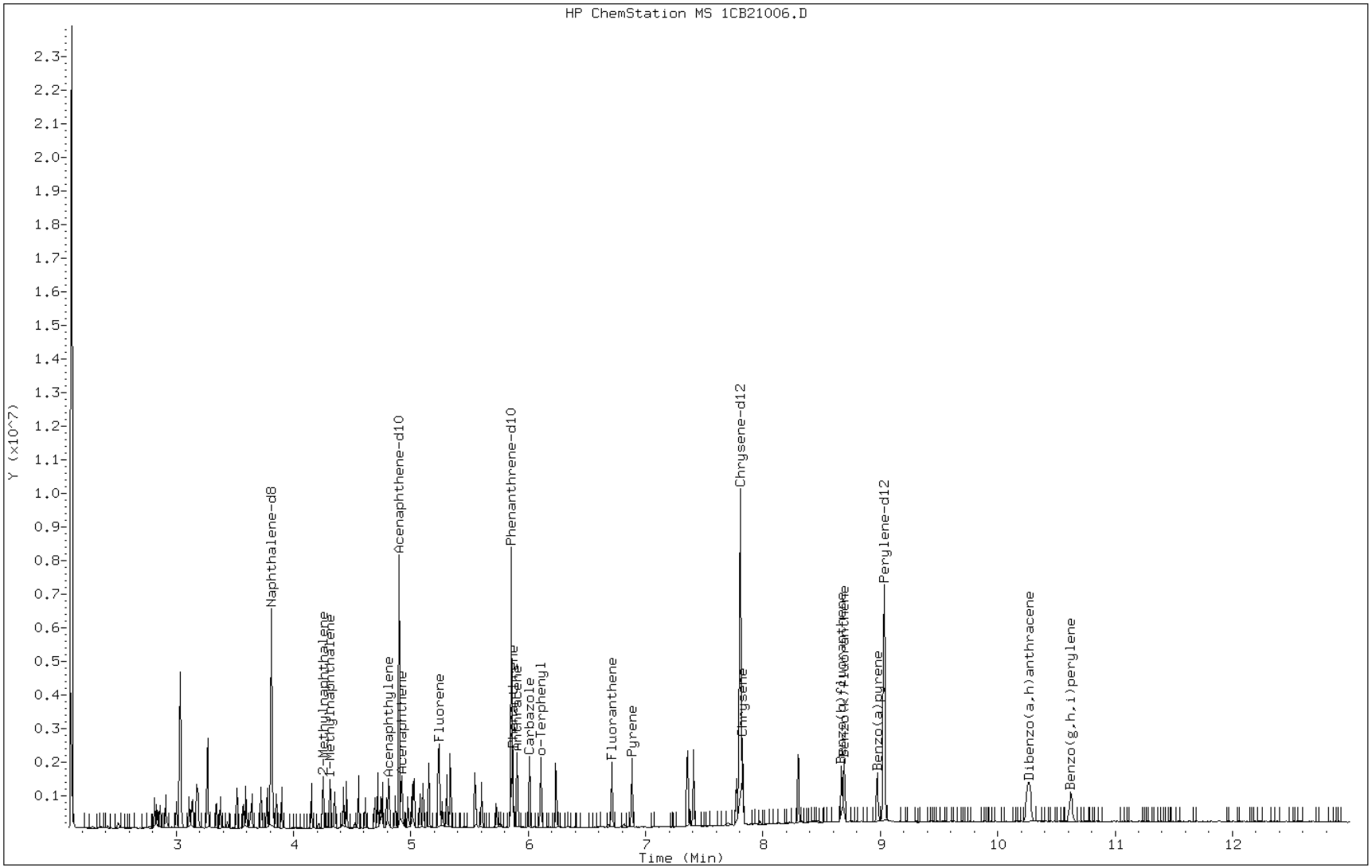
M - Compound response manually integrated.

Data File: 1CB21006.D

Date: 21-FEB-2013 12:42

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-134668/2-a Operator: SCC



Manual Integration Report

Data File: 1CB21006.D
Inj. Date and Time: 21-FEB-2013 12:42
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

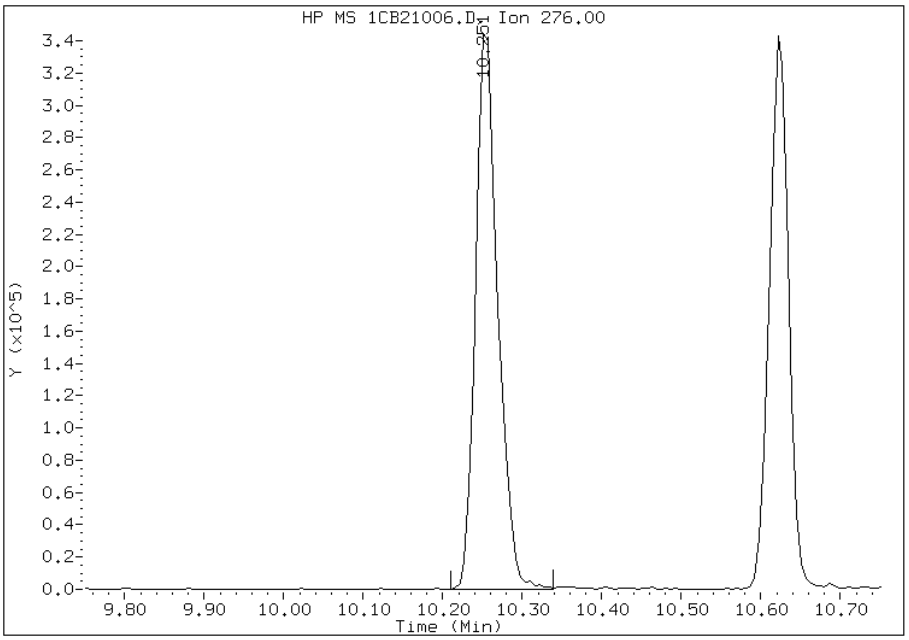
Processing Integration Results

RT: 10.25

Response: 668567

Amount: 11

Conc: 733



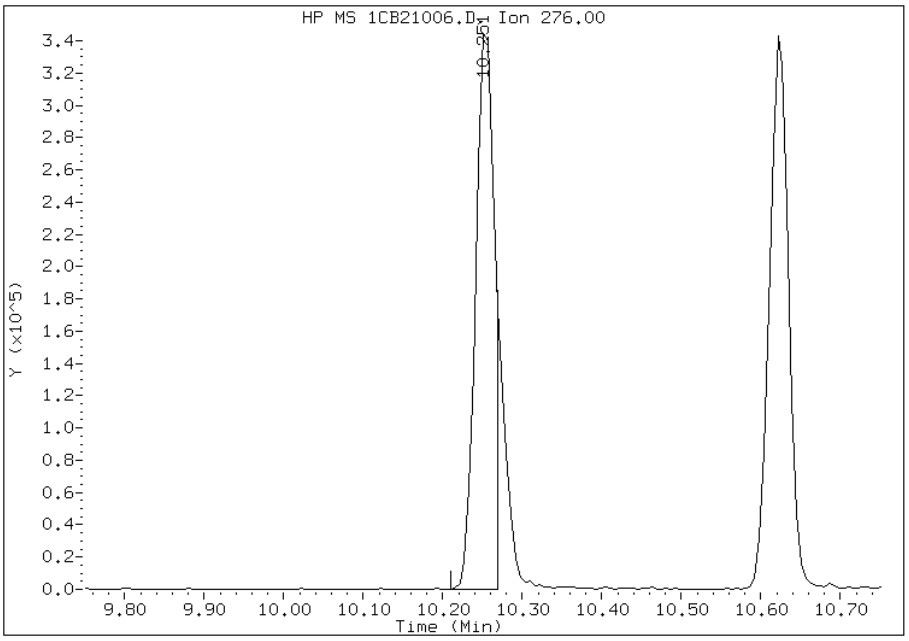
Manual Integration Results

RT: 10.25

Response: 563459

Amount: 9

Conc: 618



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 13:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87496-2
SDG No.: 68087496-2
Client Sample ID:
Lab Sample ID: 680-87496-A-1-B MS
Matrix: Solid
Lab File ID: 1CB21032.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/20/2013 11:26
Sample wt/vol: 14.99(g)
Date Analyzed: 02/21/2013 20:39
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 31.2
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134719
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	663		150	29
208-96-8	Acenaphthylene	763		58	7.3
120-12-7	Anthracene	778		12	6.1
56-55-3	Benzo[a]anthracene	1180		12	5.7
50-32-8	Benzo[a]pyrene	1170		15	7.6
205-99-2	Benzo[b]fluoranthene	1430		18	8.9
191-24-2	Benzo[g,h,i]perylene	1010		29	6.4
207-08-9	Benzo[k]fluoranthene	1090		12	5.2
218-01-9	Chrysene	1150		13	6.5
53-70-3	Dibenz(a,h)anthracene	702		29	6.0
206-44-0	Fluoranthene	1590		29	5.8
86-73-7	Fluorene	680		29	6.0
193-39-5	Indeno[1,2,3-cd]pyrene	900		29	10
90-12-0	1-Methylnaphthalene	884		58	6.4
91-57-6	2-Methylnaphthalene	842		58	10
91-20-3	Naphthalene	787		58	6.4
85-01-8	Phenanthrene	1070		12	5.7
129-00-0	Pyrene	1600		29	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21032.D
Lab Smp Id: 680-87496-a-1-b ms
Inj Date : 21-FEB-2013 20:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-1-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 32 QC Sample: MS
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	14.990	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	3.810	3.810	(1.000)	1848516	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1374482	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2417625	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	247294	6.98103	465.7122
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2539484	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2292850	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	397925	8.12369	541.9408
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	276744	8.68895	579.6499
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	264064	9.11596	608.1360
5 Acenaphthylene	152	4.810	4.815	(0.982)	430700	7.87635	525.4403
7 Acenaphthene	154	4.921	4.921	(1.005)	234773	6.84545	456.6675
9 Fluorene	166	5.239	5.239	(1.070)	309085	7.02075	468.3623
11 Phenanthrene	178	5.874	5.874	(1.003)	797914	11.0569	737.6171
12 Anthracene	178	5.904	5.904	(1.008)	522142	8.03074	535.7397

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	429866	7.61149	507.7714
15 Fluoranthene	202	6.715	6.715	(1.147)	1154934	16.3786	1092.6368(R)
16 Pyrene	202	6.886	6.886	(0.882)	1118703	16.5471	1103.8748(R)
17 Benzo(a)anthracene	228	7.804	7.803	(0.999)	849654	12.1328	809.3897
19 Chrysene	228	7.827	7.833	(1.002)	858252	11.8646	791.5028
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	832208	14.8045	987.6246(R)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	698752	11.2832	752.7176
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	644956	12.0575	804.3697
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	477228	9.28893	619.6748(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	350896	7.24266	483.1661
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	541157	10.3694	691.7558

QC Flag Legend

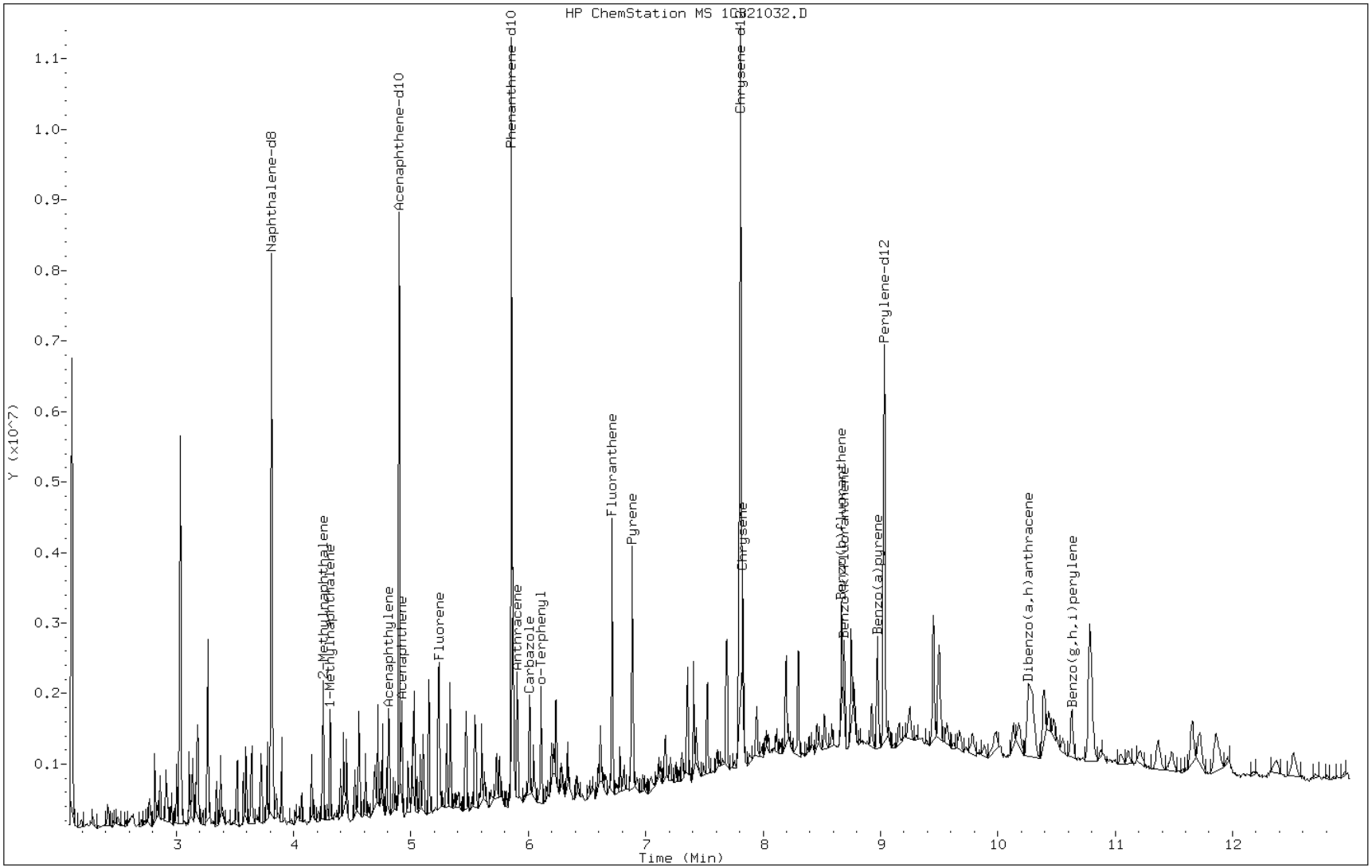
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB21032.D

Date: 21-FEB-2013 20:39

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87496-a-1-b ms Operator: SCC



Manual Integration Report

Data File: 1CB21032.D
Inj. Date and Time: 21-FEB-2013 20:39
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

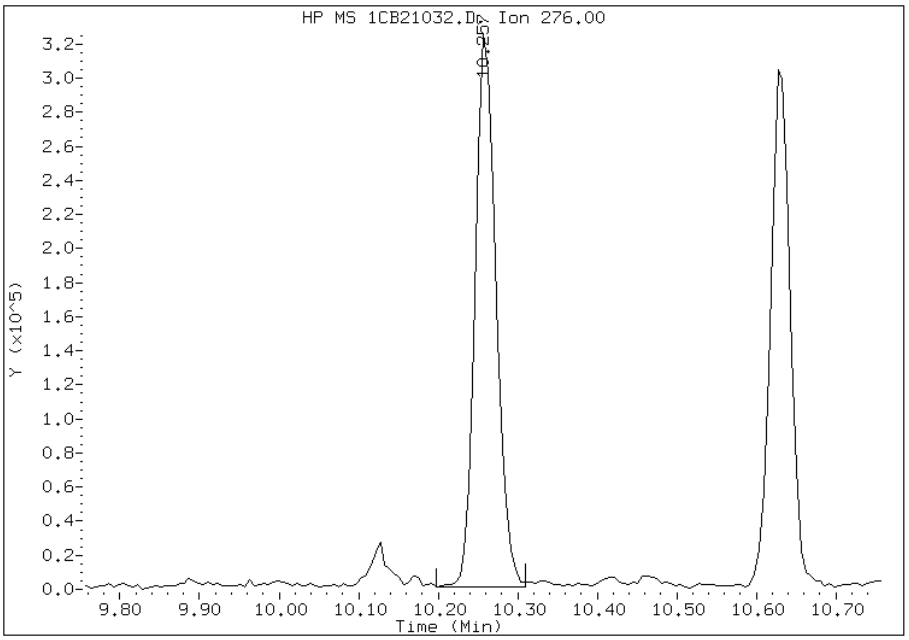
Processing Integration Results

RT: 10.26

Response: 588505

Amount: 11

Conc: 764



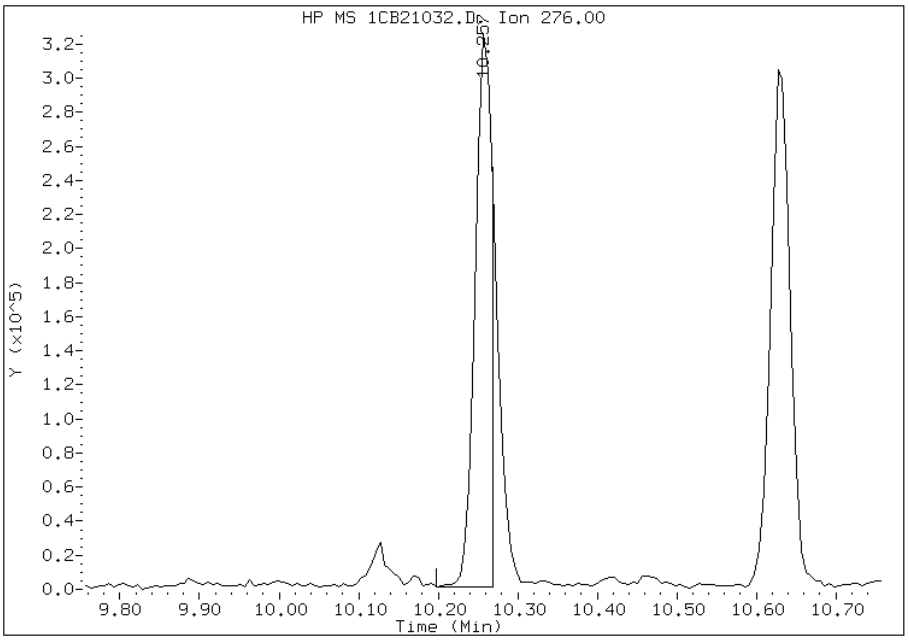
Manual Integration Results

RT: 10.26

Response: 477228

Amount: 9

Conc: 620



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 11:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971QQ-CS MS | Lab Sample ID: 680-87496-28 MS

Matrix: Solid | Lab File ID: 1CB21009.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:28

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 14.98(g) | Date Analyzed: 02/21/2013 13:37

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

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

% Moisture: 38.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1090		160	33
208-96-8	Acenaphthylene	1080		65	8.2
120-12-7	Anthracene	1270		14	6.9
56-55-3	Benzo[a]anthracene	2040		13	6.4
50-32-8	Benzo[a]pyrene	2030		17	8.5
205-99-2	Benzo[b]fluoranthene	2500		20	10
191-24-2	Benzo[g,h,i]perylene	1670		33	7.2
207-08-9	Benzo[k]fluoranthene	1830		13	5.9
218-01-9	Chrysene	1850		15	7.4
53-70-3	Dibenz(a,h)anthracene	1180		33	6.7
206-44-0	Fluoranthene	3340		33	6.5
86-73-7	Fluorene	1020		33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	1640		33	12
90-12-0	1-Methylnaphthalene	1200		65	7.2
91-57-6	2-Methylnaphthalene	1090		65	12
91-20-3	Naphthalene	1080		65	7.2
85-01-8	Phenanthrene	2200		13	6.4
129-00-0	Pyrene	2940		33	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	98		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21009.D
Lab Smp Id: 680-87496-a-28-b ms
Inj Date : 21-FEB-2013 13:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-28-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 9 QC Sample: MS
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	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	3.810	3.810	(1.000)	1828675	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1387822	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2467610	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	353140	9.76709	652.0084
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2710073	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2564136	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	479349	9.89215	660.3573
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	315097	10.0005	667.5877
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	315266	11.0016	734.4211
5 Acenaphthylene	152	4.810	4.815	(0.982)	548254	9.92973	662.8655
7 Acenaphthene	154	4.921	4.921	(1.005)	347263	10.0281	669.4306
9 Fluorene	166	5.239	5.239	(1.070)	415693	9.35155	624.2690
11 Phenanthrene	178	5.868	5.874	(1.002)	1481847	20.1183	1343.0140(R)
12 Anthracene	178	5.904	5.904	(1.008)	771758	11.6295	776.3340

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	615412	10.6762	712.6944
15 Fluoranthene	202	6.715	6.715	(1.147)	2203153	30.6110	2043.4572(R)
16 Pyrene	202	6.886	6.886	(0.882)	1942512	26.9237	1797.3102(R)
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	1398938	18.7189	1249.5924(R)
19 Chrysene	228	7.827	7.833	(1.002)	1309822	16.9674	1132.6721(R)
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	1439787	22.9031	1528.9127(R)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	1159201	16.7380	1117.3576(R)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	1112264	18.5939	1241.2462(R)
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	861235	14.9898	1000.6541(RM)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	586391	10.8228	722.4865
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	890973	15.2662	1019.1040(R)

QC Flag Legend

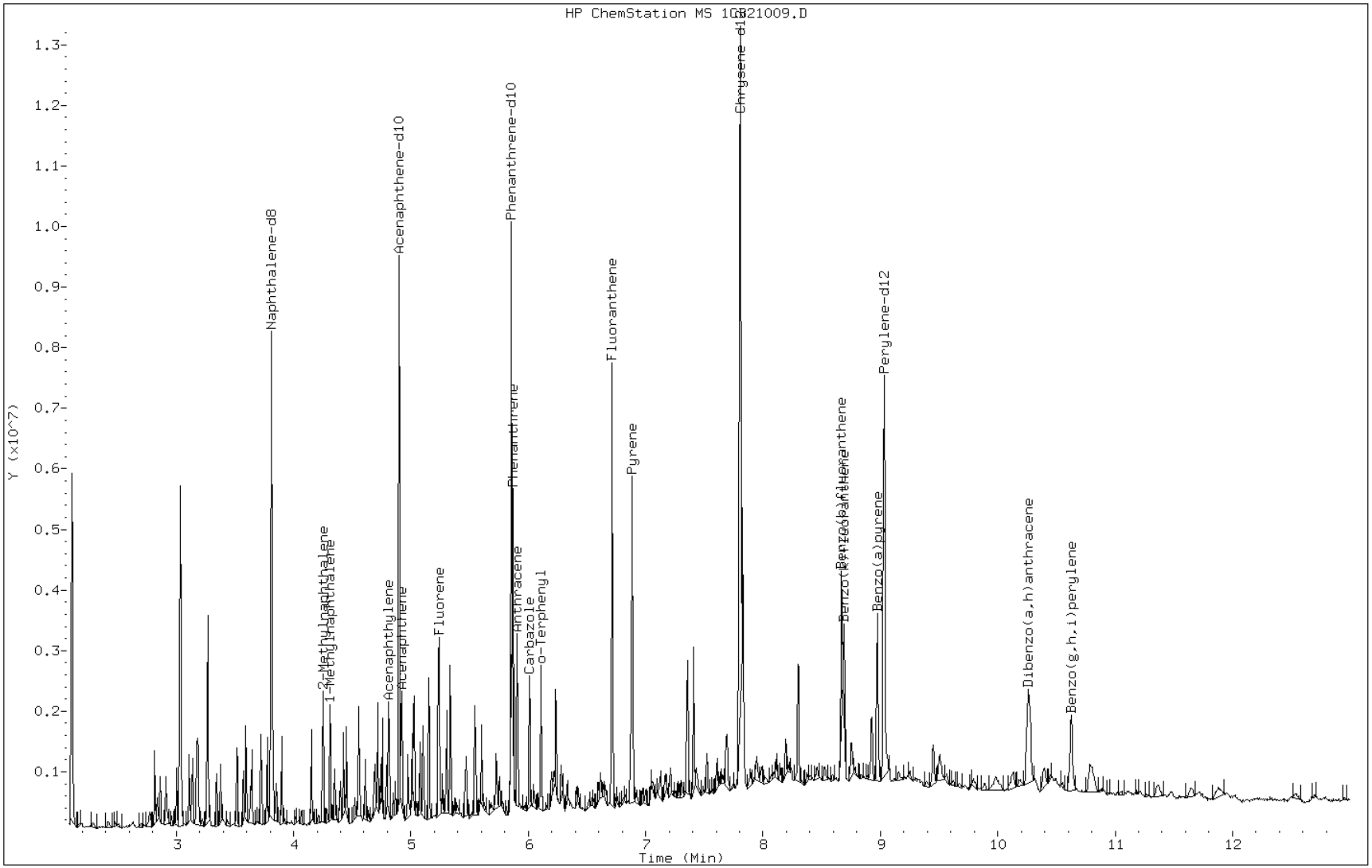
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB21009.D

Date: 21-FEB-2013 13:37

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-b ms Operator: SCC



Manual Integration Report

Data File: 1CB21009.D
Inj. Date and Time: 21-FEB-2013 13:37
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

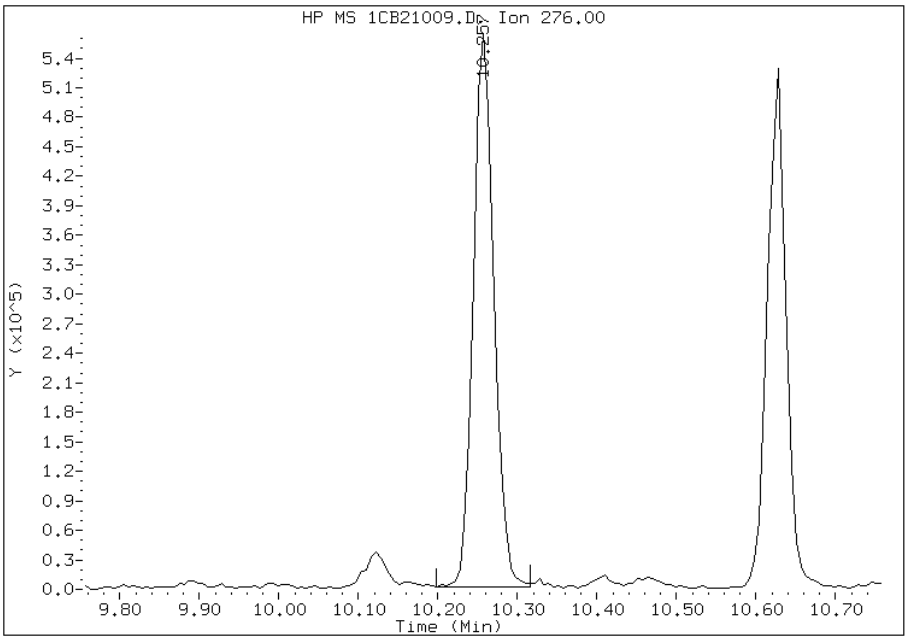
Processing Integration Results

RT: 10.26

Response: 999994

Amount: 17

Conc: 1162



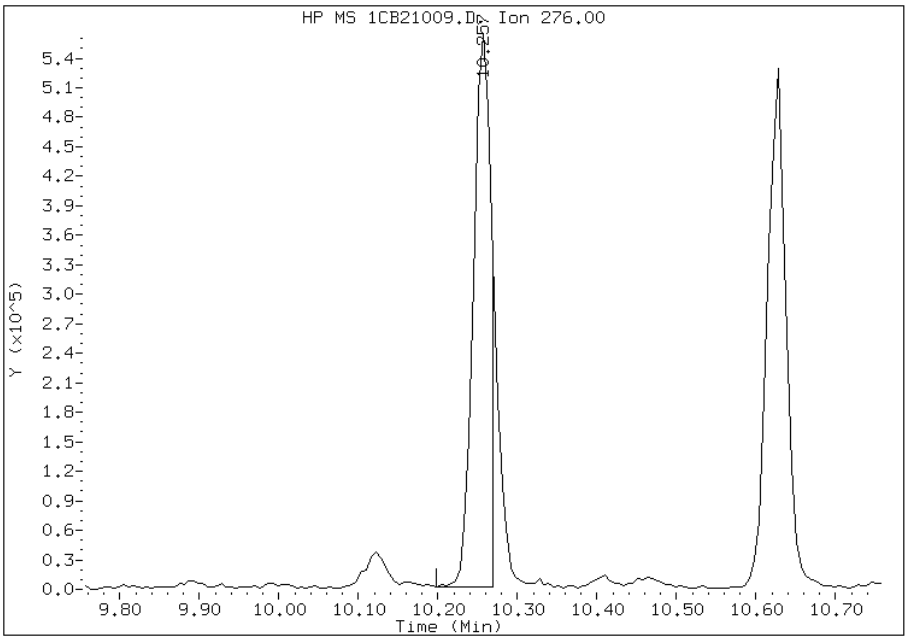
Manual Integration Results

RT: 10.26

Response: 861235

Amount: 15

Conc: 1001



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 13:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87496-2
SDG No.: 68087496-2
Client Sample ID:
Lab Sample ID: 680-87496-A-1-C MSD
Matrix: Solid
Lab File ID: 1CB21033.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/20/2013 11:26
Sample wt/vol: 14.99(g)
Date Analyzed: 02/21/2013 20:58
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 31.2
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134719
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	751		150	29
208-96-8	Acenaphthylene	918		58	7.3
120-12-7	Anthracene	846		12	6.1
56-55-3	Benzo[a]anthracene	1280		12	5.7
50-32-8	Benzo[a]pyrene	1230		15	7.6
205-99-2	Benzo[b]fluoranthene	1610		18	8.9
191-24-2	Benzo[g,h,i]perylene	1050		29	6.4
207-08-9	Benzo[k]fluoranthene	957		12	5.2
218-01-9	Chrysene	1220		13	6.5
53-70-3	Dibenz(a,h)anthracene	745		29	6.0
206-44-0	Fluoranthene	1530		29	5.8
86-73-7	Fluorene	765		29	6.0
193-39-5	Indeno[1,2,3-cd]pyrene	866		29	10
90-12-0	1-Methylnaphthalene	943		58	6.4
91-57-6	2-Methylnaphthalene	926		58	10
91-20-3	Naphthalene	923		58	6.4
85-01-8	Phenanthrene	1030		12	5.7
129-00-0	Pyrene	1690		29	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21033.D
Lab Smp Id: 680-87496-a-1-c msd
Inj Date : 21-FEB-2013 20:58
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-1-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 33 QC Sample: MSD
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	14.990	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	3.810	3.810	(1.000)	1798217	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1368581	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2525977	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	266705	7.20604	480.7228
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	2507161	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	2311860	40.0000	
2 Naphthalene	128	3.822	3.821	(1.003)	453939	9.52645	635.5200
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	295946	9.55175	637.2079
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	274160	9.72923	649.0478
5 Acenaphthylene	152	4.816	4.815	(0.983)	515679	9.47105	631.8246
7 Acenaphthene	154	4.922	4.921	(1.005)	264580	7.74781	516.8655
9 Fluorene	166	5.239	5.239	(1.070)	346155	7.89668	526.7968
11 Phenanthrene	178	5.874	5.874	(1.003)	800822	10.6212	708.5499
12 Anthracene	178	5.904	5.904	(1.008)	593283	8.73350	582.6217

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.016	6.015	(1.027)	480908	8.15001	543.6967
15 Fluoranthene	202	6.716	6.715	(1.147)	1165993	15.8262	1055.7817(R)
16 Pyrene	202	6.886	6.886	(0.882)	1161998	17.4091	1161.3781(R)
17 Benzo(a)anthracene	228	7.804	7.803	(0.999)	912269	13.1948	880.2413(R)
19 Chrysene	228	7.827	7.833	(1.002)	902558	12.6380	843.0940
20 Benzo(b)fluoranthene	252	8.674	8.668	(0.960)	939179	16.5701	1105.4078(R)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	616513	9.87341	658.6662
22 Benzo(a)pyrene	252	8.980	8.974	(0.993)	685012	12.7010	847.3014
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.135)	462982	8.93754	596.2331(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	375322	7.68312	512.5499
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.176)	569628	10.8252	722.1626

QC Flag Legend

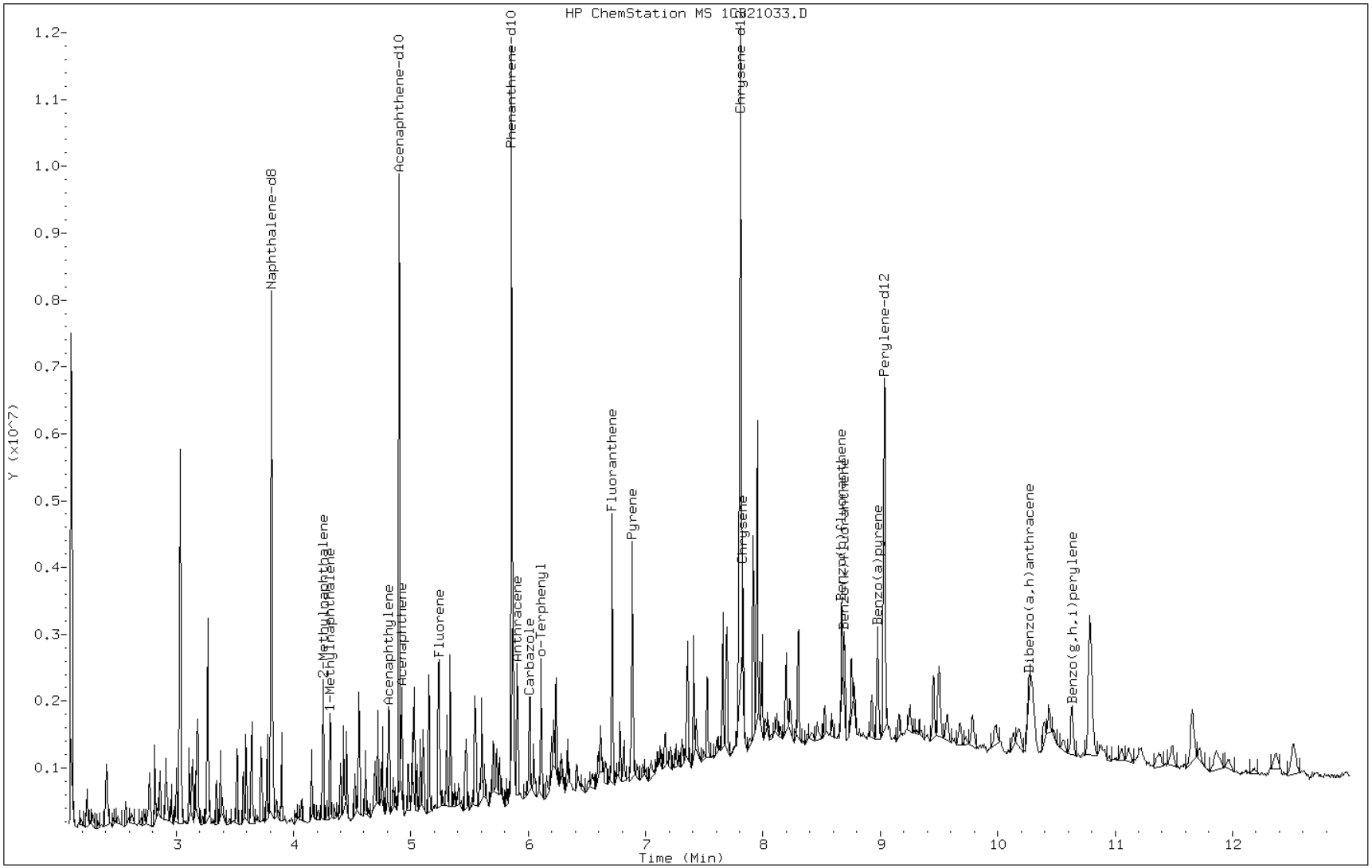
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB21033.D

Date: 21-FEB-2013 20:58

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87496-a-1-c msd Operator: SCC



Manual Integration Report

Data File: 1CB21033.D
Inj. Date and Time: 21-FEB-2013 20:58
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

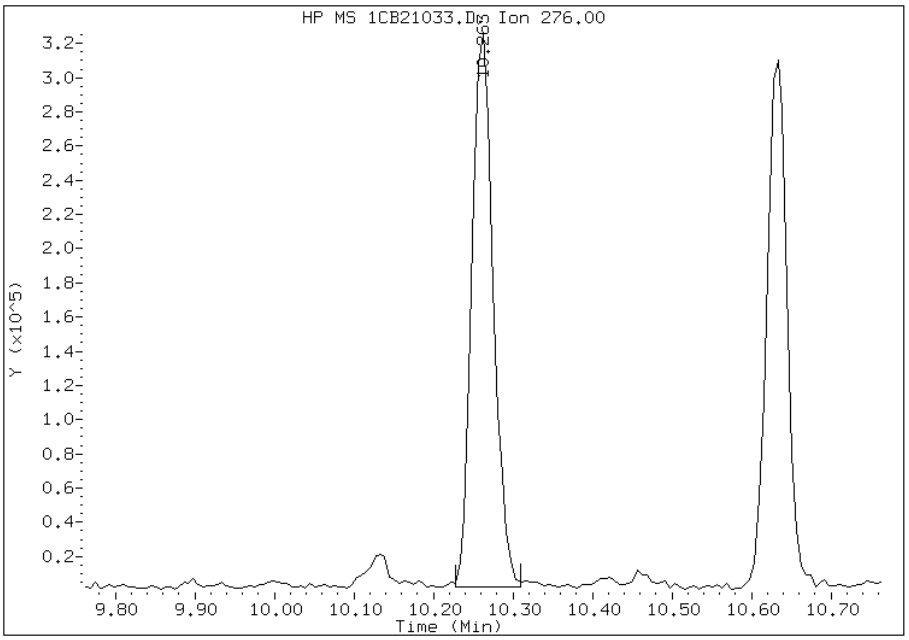
Processing Integration Results

RT: 10.26

Response: 602662

Amount: 12

Conc: 776



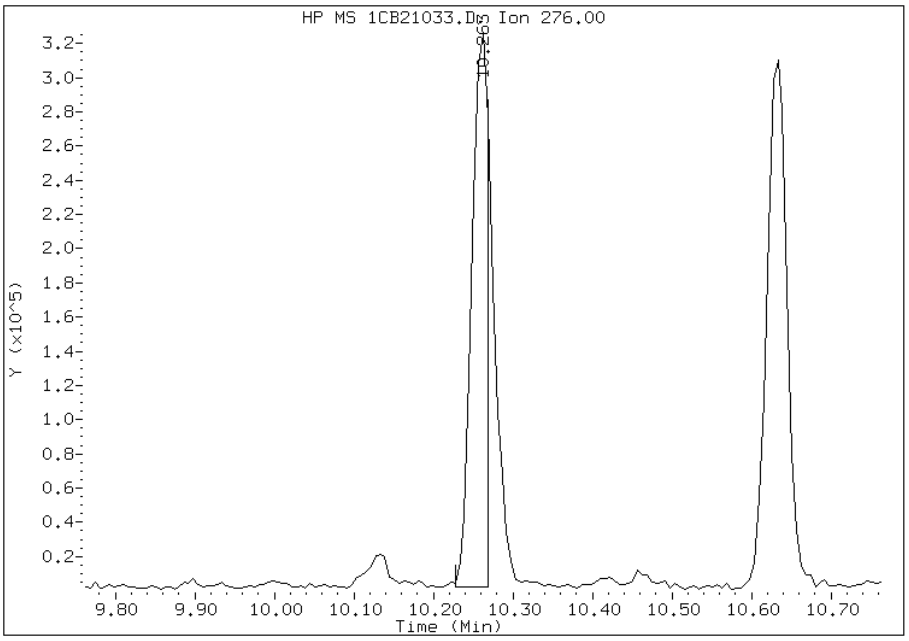
Manual Integration Results

RT: 10.26

Response: 462982

Amount: 9

Conc: 596



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 11:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-2

SDG No.: 68087496-2

Client Sample ID: CV0971QQ-CS MSD | Lab Sample ID: 680-87496-28 MSD

Matrix: Solid | Lab File ID: 1CB21010.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 11:28

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 14.98(g) | Date Analyzed: 02/21/2013 13:56

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

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

% Moisture: 38.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	963		160	33
208-96-8	Acenaphthylene	1040		65	8.2
120-12-7	Anthracene	1010		14	6.9
56-55-3	Benzo[a]anthracene	1300		13	6.4
50-32-8	Benzo[a]pyrene	1310		17	8.5
205-99-2	Benzo[b]fluoranthene	1560		20	10
191-24-2	Benzo[g,h,i]perylene	1160		33	7.2
207-08-9	Benzo[k]fluoranthene	1100		13	5.9
218-01-9	Chrysene	1190		15	7.4
53-70-3	Dibenz(a,h)anthracene	1080		33	6.7
206-44-0	Fluoranthene	1490		33	6.5
86-73-7	Fluorene	957		33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	1210		33	12
90-12-0	1-Methylnaphthalene	1170		65	7.2
91-57-6	2-Methylnaphthalene	1120		65	12
91-20-3	Naphthalene	1080		65	7.2
85-01-8	Phenanthrene	1180		13	6.4
129-00-0	Pyrene	1510		33	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21010.D
Lab Smp Id: 680-87496-a-28-c ms
Inj Date : 21-FEB-2013 13:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-28-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 10 QC Sample: MSD
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	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	3.810	3.810	(1.000)	1736451	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1345891	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2440815	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	333528	9.32593	622.5586
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	2644939	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2517891	40.0000	
2 Naphthalene	128	3.822	3.821	(1.003)	457134	9.93474	663.2002
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	307550	10.2794	686.2049
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	292362	10.7442	717.2374
5 Acenaphthylene	152	4.810	4.815	(0.982)	508000	9.48731	633.3317
7 Acenaphthene	154	4.921	4.921	(1.005)	296187	8.81960	588.7582
9 Fluorene	166	5.239	5.239	(1.070)	377864	8.76537	585.1382
11 Phenanthrene	178	5.868	5.874	(1.002)	785147	10.7766	719.3989
12 Anthracene	178	5.904	5.904	(1.008)	607997	9.26238	618.3161

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	532987	9.34776	624.0159
15 Fluoranthene	202	6.715	6.715	(1.147)	975130	13.6974	914.3765(R)
16 Pyrene	202	6.880	6.886	(0.881)	972130	13.8058	921.6138(R)
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	865656	11.8684	792.2834
19 Chrysene	228	7.827	7.833	(1.002)	824775	10.9472	730.7902
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	882857	14.3018	954.7264(R)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	684007	10.0580	671.4259
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	703965	11.9844	800.0281
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	625293	11.0831	739.8608(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	524956	9.86691	658.6724
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	607952	10.6081	708.1534

QC Flag Legend

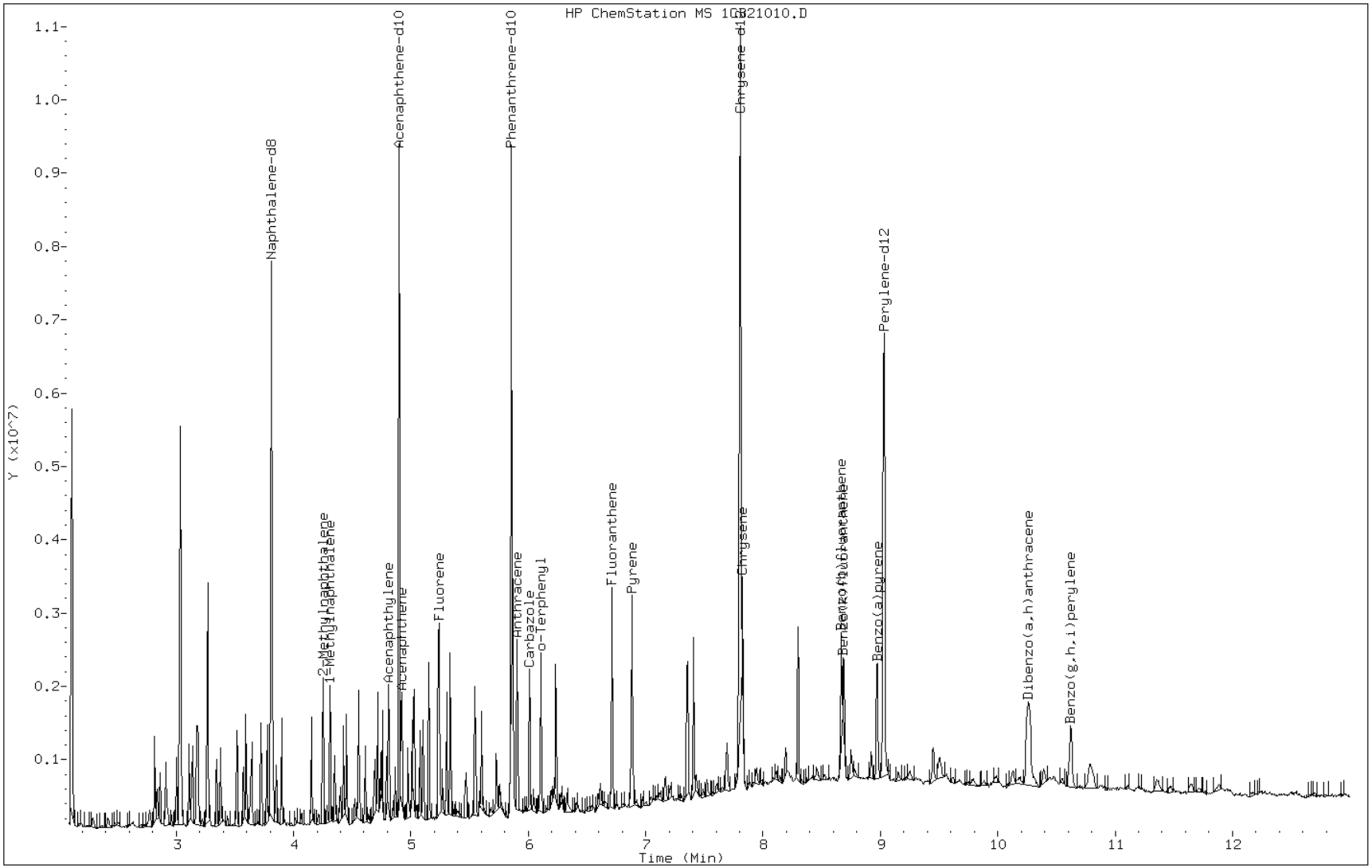
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB21010.D

Date: 21-FEB-2013 13:56

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-c msd Operator: SCC



Manual Integration Report

Data File: 1CB21010.D
Inj. Date and Time: 21-FEB-2013 13:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

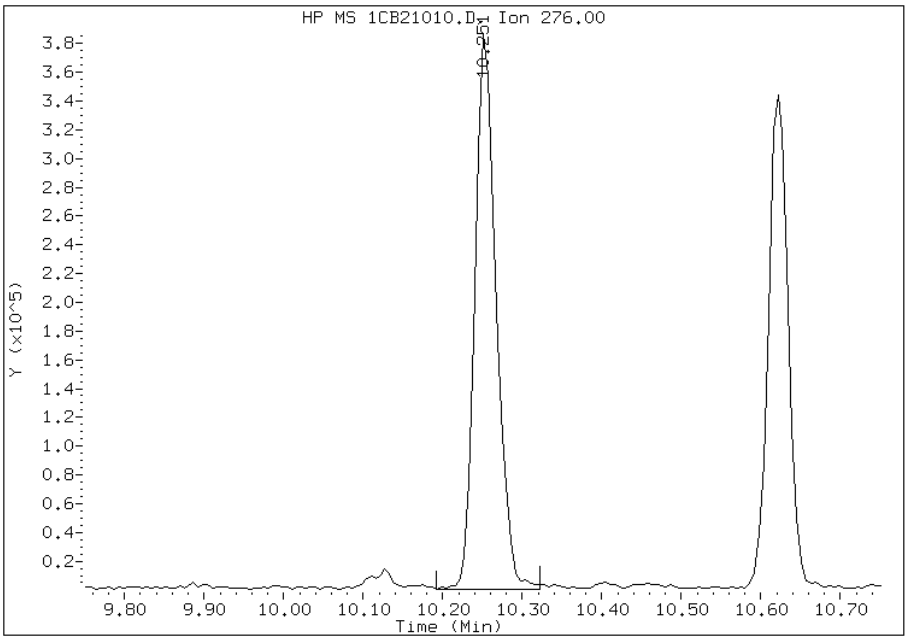
Processing Integration Results

RT: 10.25

Response: 711843

Amount: 13

Conc: 842



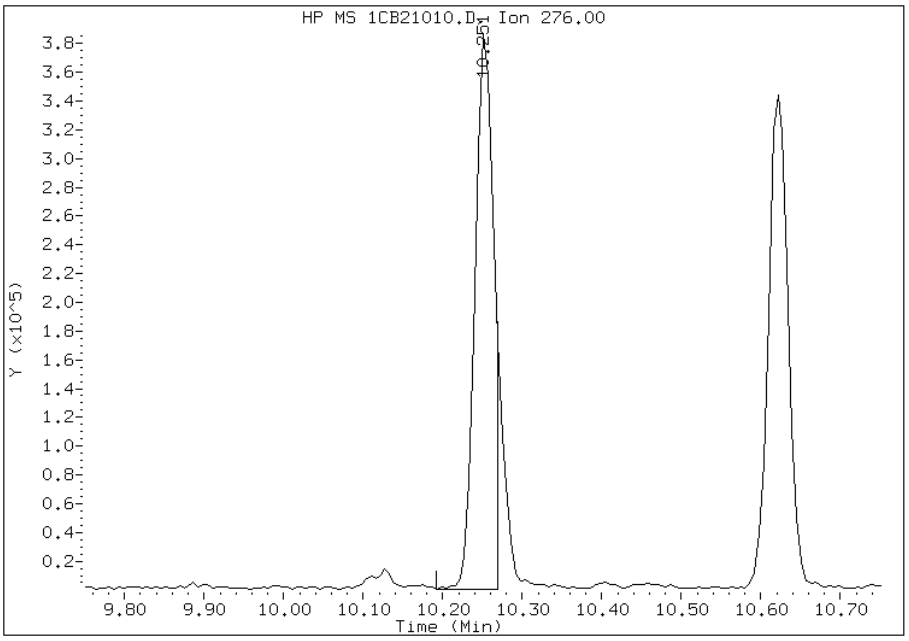
Manual Integration Results

RT: 10.25

Response: 625293

Amount: 11

Conc: 740



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 14:13
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMC5973 Start Date: 01/07/2013 10:42

Analysis Batch Number: 133227 End Date: 01/07/2013 17:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/07/2013 10:42	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 11:03	1		DB-5MS 250(um)
DFTPP 660-133227/1		01/07/2013 11:23	1	1CA07002.D	DB-5MS 250(um)
IC 660-133227/13		01/07/2013 11:50	1		DB-5MS 250(um)
IC 660-133227/14		01/07/2013 12:11	1		DB-5MS 250(um)
IC 660-133227/15		01/07/2013 12:32	1		DB-5MS 250(um)
IC 660-133227/16		01/07/2013 12:52	1		DB-5MS 250(um)
ICIS 660-133227/17		01/07/2013 13:13	1		DB-5MS 250(um)
IC 660-133227/18		01/07/2013 13:34	1		DB-5MS 250(um)
IC 660-133227/19		01/07/2013 14:03	1		DB-5MS 250(um)
IC 660-133227/20		01/07/2013 14:24	1		DB-5MS 250(um)
ICV 660-133227/21		01/07/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 15:04	1		DB-5MS 250(um)
IC 660-133227/3		01/07/2013 15:23	1	1CA07013.D	DB-5MS 250(um)
IC 660-133227/4		01/07/2013 15:41	1	1CA07014.D	DB-5MS 250(um)
IC 660-133227/5		01/07/2013 15:59	1	1CA07015.D	DB-5MS 250(um)
IC 660-133227/6		01/07/2013 16:18	1	1CA07016.D	DB-5MS 250(um)
ICIS 660-133227/7		01/07/2013 16:36	1	1CA07017.D	DB-5MS 250(um)
IC 660-133227/8		01/07/2013 16:54	1	1CA07018.D	DB-5MS 250(um)
IC 660-133227/9		01/07/2013 17:13	1	1CA07019.D	DB-5MS 250(um)
ICV 660-133227/10		01/07/2013 17:31	1	1CA07020.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMC5973 Start Date: 02/21/2013 10:54

Analysis Batch Number: 134719 End Date: 02/21/2013 23:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/21/2013 10:54	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 11:12	1		DB-5MS 250(um)
DFTPP 660-134719/2		02/21/2013 11:30	1	1CB21002.D	DB-5MS 250(um)
CCVIS 660-134719/3		02/21/2013 11:47	1	1CB21003.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 12:05	1		DB-5MS 250(um)
MB 660-134668/1-A		02/21/2013 12:24	1	1CB21005.D	DB-5MS 250(um)
LCS 660-134668/2-A		02/21/2013 12:42	1	1CB21006.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 13:01	4		DB-5MS 250(um)
680-87496-28	CV0971QQ-CS	02/21/2013 13:19	1	1CB21008.D	DB-5MS 250(um)
680-87496-28 MS	CV0971QQ-CS MS	02/21/2013 13:37	1	1CB21009.D	DB-5MS 250(um)
680-87496-28 MSD	CV0971QQ-CS MSD	02/21/2013 13:56	1	1CB21010.D	DB-5MS 250(um)
680-87496-26	CV0971PP-CS	02/21/2013 14:14	1	1CB21011.D	DB-5MS 250(um)
680-87496-27	CV0971PP-CSD	02/21/2013 14:32	1	1CB21012.D	DB-5MS 250(um)
680-87496-29	CV0971RR-CS	02/21/2013 14:51	1	1CB21013.D	DB-5MS 250(um)
680-87496-30	CV0971SS-CS	02/21/2013 15:09	1	1CB21014.D	DB-5MS 250(um)
680-87496-31	CV0971TT-CS	02/21/2013 15:28	1	1CB21015.D	DB-5MS 250(um)
680-87496-32	CV0971AK-GS	02/21/2013 15:46	1	1CB21016.D	DB-5MS 250(um)
680-87496-33	CV0971AL-GS	02/21/2013 16:04	1	1CB21017.D	DB-5MS 250(um)
680-87496-34	CV0971AM-GS	02/21/2013 16:23	1	1CB21018.D	DB-5MS 250(um)
680-87496-35	CV0971AN-GS	02/21/2013 16:41	1	1CB21019.D	DB-5MS 250(um)
680-87496-36	CV0971AO-GS	02/21/2013 16:59	1	1CB21020.D	DB-5MS 250(um)
680-87496-37	CV0971AP-GS	02/21/2013 17:18	1	1CB21021.D	DB-5MS 250(um)
680-87496-38	CV0971AQ-GS	02/21/2013 17:36	1	1CB21022.D	DB-5MS 250(um)
680-87496-39	CV0971AR-GS	02/21/2013 17:54	1	1CB21023.D	DB-5MS 250(um)
680-87496-40	CV0971UU-CS	02/21/2013 18:12	1	1CB21024.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 18:31	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 18:49	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 19:08	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 19:26	1		DB-5MS 250(um)
MB 660-134660/1-A		02/21/2013 19:44	1	1CB21029.D	DB-5MS 250(um)
LCS 660-134660/2-A		02/21/2013 20:03	1	1CB21030.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 20:21	1		DB-5MS 250(um)
680-87496-A-1-B MS		02/21/2013 20:39	1	1CB21032.D	DB-5MS 250(um)
680-87496-A-1-C MSD		02/21/2013 20:58	1	1CB21033.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 21:16	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 21:35	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 21:53	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 22:12	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 22:30	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 22:48	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 23:07	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 23:25	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMD5973 Start Date: 01/07/2013 09:12

Analysis Batch Number: 133192 End Date: 01/07/2013 13:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/07/2013 09:12	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 09:35	1		DB-5MS 250(um)
DFTPP 660-133192/2		01/07/2013 09:59	1	1DA07002.D	DB-5MS 250(um)
IC 660-133192/3		01/07/2013 10:43	1	1DA07003.D	DB-5MS 250(um)
IC 660-133192/4		01/07/2013 11:05	1	1DA07004.D	DB-5MS 250(um)
IC 660-133192/5		01/07/2013 11:28	1	1DA07005.D	DB-5MS 250(um)
IC 660-133192/6		01/07/2013 11:50	1	1DA07006.D	DB-5MS 250(um)
ICIS 660-133192/7		01/07/2013 12:13	1	1DA07007.D	DB-5MS 250(um)
IC 660-133192/8		01/07/2013 12:36	1	1DA07008.D	DB-5MS 250(um)
IC 660-133192/9		01/07/2013 12:58	1	1DA07009.D	DB-5MS 250(um)
ICV 660-133192/10		01/07/2013 13:20	1	1DA07010.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: BSMD5973 Start Date: 02/21/2013 10:54

Analysis Batch Number: 134722 End Date: 02/21/2013 23:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/21/2013 10:54	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 11:16	1		DB-5MS 250(um)
DFTPP 660-134722/2		02/21/2013 11:40	1	1DB21002.D	DB-5MS 250(um)
CCVIS 660-134722/3		02/21/2013 11:57	1	1DB21003.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 12:19	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 12:42	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 13:05	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 13:27	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 13:50	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 14:12	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 14:35	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 14:57	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 15:20	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 15:43	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:05	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:28	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:50	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 17:13	4		DB-5MS 250(um)
680-87496-21	CV0971KK-CS	02/21/2013 17:36	1	1DB21018.D	DB-5MS 250(um)
680-87496-22	CV0971LL-CS	02/21/2013 17:58	4	1DB21019.D	DB-5MS 250(um)
680-87496-23	CV0971MM-CS	02/21/2013 18:21	1	1DB21020.D	DB-5MS 250(um)
680-87496-24	CV0971NN-CS	02/21/2013 18:43	4	1DB21021.D	DB-5MS 250(um)
680-87496-25	CV0971OO-CS	02/21/2013 19:06	1	1DB21022.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 19:28	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 19:51	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 20:14	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 20:36	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 20:59	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 21:21	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 21:44	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 22:06	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 22:29	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 22:52	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 23:14	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Batch Number: 134660 Batch Start Date: 02/20/13 11:26 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/21/13 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00174		
MB 660-134660/1		3546, 8270C LL		14.91 g	1 mL		1 mL		
LCS 660-134660/2		3546, 8270C LL		14.94 g	1 mL	1 mL	1 mL		
680-87496-A-1 MS		3546, 8270C LL	T	14.99 g	1 mL	1 mL	1 mL		
680-87496-A-1 MSD		3546, 8270C LL	T	14.99 g	1 mL	1 mL	1 mL		
680-87496-A-21	CV0971KK-CS	3546, 8270C LL	T	15.30 g	1 mL		1 mL		
680-87496-A-22	CV0971LL-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-87496-A-23	CV0971MM-CS	3546, 8270C LL	T	15.32 g	1 mL		1 mL		
680-87496-A-24	CV0971NN-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-87496-A-25	CV0971OO-CS	3546, 8270C LL	T	15.31 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.: 680-87496-2

SDG No.: 68087496-2

Batch Number: 134660 Batch Start Date: 02/20/13 11:26 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/21/13 17:00

Batch Notes	
Acetone Lot #	EX-ACETON BOT_50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_52
MeCl2/Acetone Lot #	EX-DCM/ACETON_19
Microwave Start Time	12:55 2/20/13
Microwave Stop Time	13:30 2/20/13
Na2SO4 Lot Number	EX-NA2S04A_62
Ottawa Sand Lot #	EX-OTTOWA SAND_10
Person's name who did the prep	AG
SOP Number	TP-EX-014
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT_174
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

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.: 680-87496-2

SDG No.: 68087496-2

Batch Number: 134668 Batch Start Date: 02/20/13 13:23 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/21/13 09:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00174	EXLLSURINT 00175	
MB 660-134668/1		3546, 8270C LL		14.93 g	1 mL		1 mL		
LCS 660-134668/2		3546, 8270C LL		15.01 g	1 mL	1 mL	1 mL		
680-87496-A-26	CV0971PP-CS	3546, 8270C LL	T	15.23 g	1 mL		1 mL		
680-87496-A-27	CV0971PP-CSD	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-87496-A-28	CV0971QQ-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-87496-A-28 MS	CV0971QQ-CS	3546, 8270C LL	T	14.98 g	1 mL	1 mL		1 mL	
680-87496-A-28 MSD	CV0971QQ-CS	3546, 8270C LL	T	14.98 g	1 mL	1 mL		1 mL	
680-87496-A-29	CV0971RR-CS	3546, 8270C LL	T	15.07 g	1 mL			1 mL	
680-87496-A-30	CV0971SS-CS	3546, 8270C LL	T	15.30 g	1 mL			1 mL	
680-87496-A-31	CV0971TT-CS	3546, 8270C LL	T	15.00 g	1 mL			1 mL	
680-87496-A-32	CV0971AK-GS	3546, 8270C LL	T	15.19 g	1 mL			1 mL	
680-87496-A-33	CV0971AL-GS	3546, 8270C LL	T	15.18 g	1 mL			1 mL	
680-87496-A-34	CV0971AM-GS	3546, 8270C LL	T	14.97 g	1 mL			1 mL	
680-87496-A-35	CV0971AN-GS	3546, 8270C LL	T	15.19 g	1 mL			1 mL	
680-87496-A-36	CV0971AO-GS	3546, 8270C LL	T	15.15 g	1 mL			1 mL	
680-87496-A-37	CV0971AP-GS	3546, 8270C LL	T	15.02 g	1 mL			1 mL	
680-87496-A-38	CV0971AQ-GS	3546, 8270C LL	T	15.26 g	1 mL			1 mL	
680-87496-A-39	CV0971AR-GS	3546, 8270C LL	T	15.05 g	1 mL			1 mL	
680-87496-A-40	CV0971UU-CS	3546, 8270C LL	T	15.18 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.: 680-87496-2

SDG No.: 68087496-2

Batch Number: 134668 Batch Start Date: 02/20/13 13:23 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/21/13 09:05

Batch Notes	
Acetone Lot #	EX ACETON BOT _50
Balance ID	BOO1
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _52
MeCl2/Acetone Lot #	EX DCM/ACETON _19/20
Microwave Start Time	15.15/2/20/13
Microwave Stop Time	15.50/2/20/13
Na2SO4 Lot Number	EX NA2S04 A_62
Ottawa Sand Lot #	OTTAWSAND_10
Person's name who did the prep	AG
SOP Number	T P EX 014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EX LLSURINT _174/175
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: 680-87496-2

SDG No.: 68087496-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0971KK-CS	680-87496-21
CV0971LL-CS	680-87496-22
CV0971MM-CS	680-87496-23
CV0971NN-CS	680-87496-24
CV0971OO-CS	680-87496-25
CV0971PP-CS	680-87496-26
CV0971PP-CSD	680-87496-27
CV0971QQ-CS	680-87496-28
CV0971RR-CS	680-87496-29
CV0971SS-CS	680-87496-30
CV0971TT-CS	680-87496-31
CV0971AK-GS	680-87496-32
CV0971AL-GS	680-87496-33
CV0971AM-GS	680-87496-34
CV0971AN-GS	680-87496-35
CV0971AO-GS	680-87496-36
CV0971AP-GS	680-87496-37
CV0971AQ-GS	680-87496-38
CV0971AR-GS	680-87496-39
CV0971UU-CS	680-87496-40

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87496-2

SDG Number: 68087496-2

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: 680-87496-2

SDG Number: 68087496-2

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.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/17/2013 10:58 End Date: 02/17/2013 10:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-134548/1	1	T	10:58	X																			
ZZZZZZ			10:58																				
ZZZZZZ			10:58																				
ZZZZZZ			10:58																				
ZZZZZZ			10:58																				
ZZZZZZ			10:58																				
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ZZZZZZ			10:58																				
ZZZZZZ			10:58																				
ZZZZZZ			10:58																				
ZZZZZZ			10:58																				
680-87496-21	1	T	10:58	X																			
680-87496-22	1	T	10:58	X																			
680-87496-23	1	T	10:58	X																			
680-87496-24	1	T	10:58	X																			
680-87496-25	1	T	10:58	X																			
680-87496-26	1	T	10:58	X																			
680-87496-27	1	T	10:58	X																			
680-87496-28	1	T	10:58	X																			
680-87496-29	1	T	10:58	X																			
680-87496-30	1	T	10:58	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/18/2013 10:46 End Date: 02/18/2013 10:46

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-134573/1	1	T	10:46	X																			
680-87496-31	1	T	10:46	X																			
680-87496-32	1	T	10:46	X																			
680-87496-33	1	T	10:46	X																			
680-87496-34	1	T	10:46	X																			
680-87496-35	1	T	10:46	X																			
680-87496-36	1	T	10:46	X																			
680-87496-37	1	T	10:46	X																			
680-87496-38	1	T	10:46	X																			
680-87496-39	1	T	10:46	X																			
680-87496-40	1	T	10:46	X																			
ZZZZZZ			10:46																				
ZZZZZZ			10:46																				
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ZZZZZZ			10:46																				
ZZZZZZ			10:46																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87496-2

SDG No.: 68087496-2

Batch Number: 134548 Batch Start Date: 02/17/13 10:58 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-134548/1		Moisture			0 g	5.02 g	5.00 g		
680-87496-A-21	CV0971KK-CS	Moisture	T	31	0 g	5.04 g	2.97 g		
680-87496-A-22	CV0971LL-CS	Moisture	T	32	0 g	5.18 g	3.36 g		
680-87496-A-23	CV0971MM-CS	Moisture	T	33	0 g	5.50 g	3.52 g		
680-87496-A-24	CV0971NN-CS	Moisture	T	34	0 g	5.24 g	2.51 g		
680-87496-A-25	CV0971OO-CS	Moisture	T	35	0 g	5.47 g	3.55 g		
680-87496-A-26	CV0971PP-CS	Moisture	T	36	0 g	5.82 g	3.86 g		
680-87496-A-27	CV0971PP-CSD	Moisture	T	37	0 g	6.76 g	4.56 g		
680-87496-A-28	CV0971QQ-CS	Moisture	T	38	0 g	6.00 g	3.67 g		
680-87496-A-29	CV0971RR-CS	Moisture	T	39	0 g	5.17 g	3.40 g		
680-87496-A-30	CV0971SS-CS	Moisture	T	40	0 g	5.86 g	4.03 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.17.13

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.: 680-87496-2

SDG No.: 68087496-2

Batch Number: 134573 Batch Start Date: 02/18/13 10:46 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-134573/1		Moisture		mb	0 g	5.01 g	5.04 g		
680-87496-A-31	CV0971TT-CS	Moisture	T	1	0 g	5.16 g	4.65 g		
680-87496-A-32	CV0971AK-GS	Moisture	T	2	0 g	5.80 g	4.13 g		
680-87496-A-33	CV0971AL-GS	Moisture	T	3	0 g	5.41 g	4.12 g		
680-87496-A-34	CV0971AM-GS	Moisture	T	4	0 g	5.03 g	3.44 g		
680-87496-A-35	CV0971AN-GS	Moisture	T	5	0 g	5.14 g	3.87 g		
680-87496-A-36	CV0971AO-GS	Moisture	T	6	0 g	5.02 g	3.13 g		
680-87496-A-37	CV0971AP-GS	Moisture	T	7	0 g	5.09 g	3.02 g		
680-87496-A-38	CV0971AQ-GS	Moisture	T	8	0 g	5.11 g	3.68 g		
680-87496-A-39	CV0971AR-GS	Moisture	T	9	0 g	5.80 g	5.46 g		
680-87496-A-40	CV0971UU-CS	Moisture	T	10	0 g	5.80 g	4.63 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.18.13

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.

Shipping and Receiving Documents

Serial Number 59531

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 Removal Ave	PROJECT NO.: 2025148-1356	PROJECT LOCATION (STATE): AL	PAGE 2 OF 7
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: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: 8270 LL PAH

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	8270 LL PAH	REMARKS
2/13/13	919	CV0971DD-CS	C		X			X	
	927	CV0971EE-CS	C		X			X	
	935	CV0971FF-CS	C		X			X	
	950	CV0971GG-CS	C		X			X	
	953	CV0971GG-CSD	C		X			X	
	956	CV0971HH-CS	C		X			X	
	958	CV0971II-CS	C		X			X	
	1008	CV0971JJ-CS	C		X			X	
	1018	CV0971KK-CS	C		X			X	
	1022	CV0971LL-CS	C		X			X	
	1104	CV0971MM-CS	C		X			X	
	1110	CV0971NN-CS	C		X			X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Nick Sa	2/14/13	1600						
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
	02/15/13	0942	YES ○ NO ○		680-87496	5.8/5.2°C

TAL8240-680 (1008)

02/26/2013

Serial Number 59532

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	2005748-1356	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 7

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: 8270 LL PAH; RCRA Metals

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8270 LL PAH	RCRA Metals									REMARKS
2/13/13	1113	CV097100-CS	C		X			X										
	1124	CV0971PP-CS	C		X			X										
	1126	CV0971PP-CSD	C		X			X										
	1128	CV0971QQ-CS	C		X			X	X									
	1132	CV0971RR-CS	C		X			X										
	1135	CV0971SS-CS	C		X			X	X									
	1138	CV0971TT-CS	C		X			X	X									
	921	CV0971AK-GS	G		X			X										
	1001	CV0971AL-GS	G		X			X										
	1006	CV0971AM-GS	G		X			X										
	1033	CV0971AN-GS	G		X			X										
	1045	CV097 1AO-GS	G		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/14/13	1600						

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
[signature]	02/15/13	0942	YES ◯ NO ◯		680-87496	5.8/5.2 °C

TAL8240-680 (1008)

02/26/2013

Serial Number 59533

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	200548-1356	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 4 OF 7

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	B270 LLPAH	RCRA Metals									REMARKS
								PRESERVATIVE										
2/13/13	1120	CV0971AP-GS	G		X			X										
	1122	CV0971AQ-GS	G		X			X										
	1420	CV0971AR-GS	G		X			X										
	1341	CV0971UU-CS	C		X			X										
	1345	CV0971VV-CS	C		X			X	X									
	1348	CV0971VV-CSD	C		X			X										
	1407	CV0971WW-CS	C		X			X	X									
	1410	CV0971XX-CS	C		X			X										
	1415	CV0971YY-CS	C		X			X	X									
	1430	CV0971ZZ-CS	C		X			X										
	1433	CV0971AAA-CS	C		X			X										
	1440	CV0971BBB-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Mike Sen	2/14/13	1600						

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
	02/15/13	0942	YES ○ NO ○		680-87496	5.8/5.2 °C

TAL8240-680 (1008)

Serial Number

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)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 2 OF 7
35th Removal Ave	2005148-1356	AL			
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: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

Required analysis: 8270 LL PAH; PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	8270 LL PAH	PRESERVATIVE	REMARKS
2/13/13	919	CV0971DD-CS	C		X			X		
	927	CV0971EE-CS	C		X			X		
	935	CV0971FF-CS	C		X			X		
	950	CV0971GG-CS	C		X			X		
	953	CV0971GG-CSD	C		X			X		
	956	CV0971HH-CS	C		X			X		
	958	CV0971II-CS	C		X			X		
	1008	CV0971JJ-CS	C		X			X		
	1018	CV0971KK-CS	C		X			X		
	1022	CV0971LL-CS	C		X			X		
	1104	CV0971MM-CS	C		X			X		
	1110	CV0971NN-CS	C		X			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/14/13	1600						
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
[signature]	02/15/13	0942	YES ◯ NO ◯		680-87496	12 5.8/5.2°C

TAL8240-680 (1008)

02/26/2013

Serial Number

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)	PAGE 3 OF 7
35th Ave Removal	2005748-1356	AL	
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: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: 8270 LL PAH; RCRA Metals

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8270 LL PAH	RCRA Metals	REMARKS
2/13/13	1113	CV097100-CS	C		X			X		
	1124	CV0971PP-CS	C		X			X		
	1126	CV0971PP-CSD	C		X			X		
	1128	CV0971QQ-CS	C		X			X	X	
	1132	CV0971RR-CS	C		X			X		
	1135	CV0971SS-CS	C		X			X	X	
	1138	CV0971TT-CS	C		X			X	X	
	921	CV0971AK-GS	G		X			X		
	1001	CV0971AL-GS	G		X			X		
	1006	CV0971AM-GS	G		X			X		
	1033	CV0971AN-GS	G		X			X		
	1045	CV0971AO-GS	G		X			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/14/13	1600						
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
[signature]	02/15/13	0942	YES ○ NO ○		680-87496	2, 5.8/5.2 °C

TAL8240-680 (1008)

Serial Number

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	2005748-1356	AL
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE	CLIENT FAX
CLIENT NAME: OTIE	CLIENT E-MAIL: LKeebs@otie.com	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 7

STANDARD REPORT DELIVERY ( )
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: BTO, LLPAH, RCRA Metals

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	BTO	LLPAH	RCRA Metals								REMARKS
2/13/13	1120	CV0971AP-GS	G		X			X										
	1122	CV0971AQ-GS	G		X			X										
	1420	CV0971AR-GS	G		X			X										
	1341	CV0971UU-CS	C		X			X										
	1345	CV0971VV-CS	C		X			X	X									
	1348	CV0971VV-CSD	C		X			X										
	1407	CV0971WW-CS	C		X			X	X									
	1410	CV0971XX-CS	C		X			X										
	1415	CV0971YY-CS	C		X			X	X									
	1430	CV0971ZZ-CS	C		X			X										
	1433	CV0971AAA-CS	C		X			X										
	1440	CV0971BBB-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/14/13	1600						
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
[signature]	02/15/13	0942	YES ( ) NO ( )		680 87496	2, 3, 5.8/5.2 °C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-2
SDG Number: 68087496-2

Login Number: 87496
List Number: 1
Creator: Barnett, Eddie T

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").	N/A	
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: 680-87496-2
SDG Number: 68087496-2

Login Number: 87496
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 02/16/13 09:16 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.	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").	N/A	
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: 680-87496-2
SDG Number: 68087496-2

Login Number: 87496
List Number: 2
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 02/16/13 09:29 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.	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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	