ANALYTICAL REPORT

Job Number: 680-87545-5

SDG Number: 68087545-5

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
3/1/2013 12:31 PM

Designee for
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Project Manager II
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03/01/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87545-5

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

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

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

RECEIPT

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

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0161DDD-CS (680-87545-84), FM0161EEE-CS (680-87545-85), FM0161FFF-CS (680-87545-86), FM0161GGG-CS (680-87545-87), FM0161GGG-CSD (680-87545-88), FM0161HHH-CS (680-87545-89), FM0161III-CS (680-87545-90) and FM0161JJJ-CS (680-87545-91) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/25/2013 and analyzed on 02/26/2013.

The method blank for preparation batch 134788 contained phenanthrene above the method detection limit (MDL), but below the reporting limit (RL). The daily instrument blank was clean. The associated samples contained detects for this analyte at concentrations greater than 10X the value found in the method blank; therefore, re-extraction and re-analysis of samples were not performed. Phenanthrene was detected in method blank MB 660-134788/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Sample FM0161FFF-CS (680-87545-86)[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 680-87545-61 in batch 660-134863.

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

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-5
Sdg Number: 68087545-5

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87545-84	FM0161DDD-CS	Solid	02/15/2013 0853	02/16/2013 0903
680-87545-84MS	FM0161DDD-CS	Solid	02/15/2013 0853	02/16/2013 0903
680-87545-84MSD	FM0161DDD-CS	Solid	02/15/2013 0853	02/16/2013 0903
680-87545-85	FM0161EEE-CS	Solid	02/15/2013 0854	02/16/2013 0903
680-87545-86	FM0161FFF-CS	Solid	02/15/2013 0912	02/16/2013 0903
680-87545-87	FM0161GGG-CS	Solid	02/15/2013 0914	02/16/2013 0903
680-87545-88	FM0161GGG-CSD	Solid	02/15/2013 0917	02/16/2013 0903
680-87545-89	FM0161HHH-CS	Solid	02/15/2013 0924	02/16/2013 0903
680-87545-90	FM0161III-CS	Solid	02/15/2013 0929	02/16/2013 0903
680-87545-91	FM0161JJJ-CS	Solid	02/15/2013 0933	02/16/2013 0903

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-5
Sdg Number: 68087545-5

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-5
Sdg Number: 68087545-5

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-5
Sdg Number: 68087545-5

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-5
Sdg Number: 68087545-5

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134788					
LCS 660-134788/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134788/1-A	Method Blank	T	Solid	3546	
680-87545-A-61-B MS	Matrix Spike	T	Solid	3546	
680-87545-A-61-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87545-85	FM0161EEE-CS	T	Solid	3546	
680-87545-86	FM0161FFF-CS	T	Solid	3546	
680-87545-87	FM0161GGG-CS	T	Solid	3546	
680-87545-88	FM0161GGG-CSD	T	Solid	3546	
680-87545-89	FM0161HHH-CS	T	Solid	3546	
680-87545-90	FM0161III-CS	T	Solid	3546	
680-87545-91	FM0161JJJ-CS	T	Solid	3546	
Prep Batch: 660-134800					
LCS 660-134800/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134800/1-A	Method Blank	T	Solid	3546	
680-87545-84	FM0161DDD-CS	T	Solid	3546	
680-87545-84MS	Matrix Spike	T	Solid	3546	
680-87545-84MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-134862					
LCS 660-134800/2-A	Lab Control Sample	T	Solid	8270C LL	660-134800
MB 660-134800/1-A	Method Blank	T	Solid	8270C LL	660-134800
680-87545-84	FM0161DDD-CS	T	Solid	8270C LL	660-134800
680-87545-84MS	Matrix Spike	T	Solid	8270C LL	660-134800
680-87545-84MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134800
Analysis Batch:660-134863					
LCS 660-134788/2-A	Lab Control Sample	T	Solid	8270C LL	660-134788
MB 660-134788/1-A	Method Blank	T	Solid	8270C LL	660-134788
680-87545-A-61-B MS	Matrix Spike	T	Solid	8270C LL	660-134788
680-87545-A-61-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134788
680-87545-85	FM0161EEE-CS	T	Solid	8270C LL	660-134788
680-87545-86	FM0161FFF-CS	T	Solid	8270C LL	660-134788
680-87545-87	FM0161GGG-CS	T	Solid	8270C LL	660-134788
680-87545-88	FM0161GGG-CSD	T	Solid	8270C LL	660-134788
680-87545-89	FM0161HHH-CS	T	Solid	8270C LL	660-134788
680-87545-90	FM0161III-CS	T	Solid	8270C LL	660-134788
680-87545-91	FM0161JJJ-CS	T	Solid	8270C LL	660-134788

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-5
Sdg Number: 68087545-5

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134667					
MB 660-134667/1	Method Blank	T	Solid	Moisture	
680-87545-84	FM0161DDD-CS	T	Solid	Moisture	
680-87545-84MS	Matrix Spike	T	Solid	Moisture	
680-87545-84MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-87545-85	FM0161EEE-CS	T	Solid	Moisture	
680-87545-86	FM0161FFF-CS	T	Solid	Moisture	
680-87545-87	FM0161GGG-CS	T	Solid	Moisture	
Analysis Batch:660-134675					
LCS 660-134675/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134675/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87545-A-61 MS	Matrix Spike	T	Solid	Moisture	
680-87545-A-61 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-87545-88	FM0161GGG-CSD	T	Solid	Moisture	
680-87545-90	FM0161III-CS	T	Solid	Moisture	
680-87545-91	FM0161JJJ-CS	T	Solid	Moisture	
Analysis Batch:660-134686					
LCS 660-134686/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134686/13	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87545-89	FM0161HHH-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: BSMC5973 Analysis Batch Number: 134776

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: BSMC5973 Analysis Batch Number: 134776

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: BSMC5973 Analysis Batch Number: 134862

Lab Sample ID: CCVIS 660-134862/3 Client Sample ID:

Date Analyzed: 02/26/13 13:53 Lab File ID: 1CB26003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/26/13 14:08

Lab Sample ID: 680-87545-84 Client Sample ID: FM0161DDD-CS

Date Analyzed: 02/26/13 15:06 Lab File ID: 1CB26007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/26/13 15:23

Lab Sample ID: 680-87545-84 MS Client Sample ID: FM0161DDD-CS MS

Date Analyzed: 02/26/13 15:25 Lab File ID: 1CB26008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/26/13 15:54

Lab Sample ID: 680-87545-84 MSD Client Sample ID: FM0161DDD-CS MSD

Date Analyzed: 02/26/13 15:43 Lab File ID: 1CB26009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/26/13 15:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: BSMD5973 Analysis Batch Number: 134781

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: BSMD5973 Analysis Batch Number: 134781

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: BSMD5973 Analysis Batch Number: 134863

Lab Sample ID: 680-87545-A-61-B MS Client Sample ID:

Date Analyzed: 02/26/13 16:45 Lab File ID: 1DB26010.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	02/28/13 10:02

Lab Sample ID: 680-87545-A-61-C MSD Client Sample ID:

Date Analyzed: 02/26/13 17:07 Lab File ID: 1DB26011.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	02/28/13 10:03

Lab Sample ID: 680-87545-85 Client Sample ID: FM0161EEE-CS

Date Analyzed: 02/26/13 21:38 Lab File ID: 1DB26023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.98	Split Peak	cantins	02/28/13 10:50

Lab Sample ID: 680-87545-86 Client Sample ID: FM0161FFF-CS

Date Analyzed: 02/26/13 22:01 Lab File ID: 1DB26024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	11.49	Baseline Event	cantins	02/28/13 10:50
Indeno[1,2,3-cd]pyrene	14.97	Split Peak	cantins	02/28/13 10:51

Lab Sample ID: 680-87545-87 Client Sample ID: FM0161GGG-CS

Date Analyzed: 02/26/13 22:24 Lab File ID: 1DB26025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.99	Split Peak	cantins	02/28/13 10:52

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: BSMD5973 Analysis Batch Number: 134863

Lab Sample ID: 680-87545-88 Client Sample ID: FM0161GGG-CSD

Date Analyzed: 02/26/13 22:46 Lab File ID: 1DB26026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.99	Split Peak	cantins	02/28/13 10:52

Lab Sample ID: 680-87545-89 Client Sample ID: FM0161HHH-CS

Date Analyzed: 02/26/13 23:09 Lab File ID: 1DB26027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.00	Split Peak	cantins	02/28/13 10:53

Lab Sample ID: 680-87545-90 Client Sample ID: FM0161III-CS

Date Analyzed: 02/26/13 23:31 Lab File ID: 1DB26028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.00	Split Peak	cantins	02/28/13 10:54

Lab Sample ID: 680-87545-91 Client Sample ID: FM0161JJJ-CS

Date Analyzed: 02/26/13 23:54 Lab File ID: 1DB26029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.00	Split Peak	cantins	02/28/13 10:54

Method 8270C Low Level

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

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
FM0161DDD-CS	680-87545-84	91
FM0161EEE-CS	680-87545-85	76
FM0161FFF-CS	680-87545-86	122
FM0161GGG-CS	680-87545-87	102
FM0161GGG-CSD	680-87545-88	108
FM0161HHH-CS	680-87545-89	95
FM0161III-CS	680-87545-90	91
FM0161JJJ-CS	680-87545-91	94
	MB 660-134788/1-A	87
	MB 660-134800/1-A	98
	LCS 660-134788/2-A	95
	LCS 660-134800/2-A	110
	680-87545-A-61-B MS	108
FM0161DDD-CS MS	680-87545-84 MS	95
	680-87545-A-61-C MSD	120
FM0161DDD-CS MSD	680-87545-84 MSD	99

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Matrix: Solid Level: Low Lab File ID: 1DB26008.D

Lab ID: LCS 660-134788/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	664	535	80	39-130	
Acenaphthylene	664	547	82	38-130	
Anthracene	664	566	85	37-130	
Benzo[a]anthracene	664	601	90	40-130	
Benzo[a]pyrene	664	544	82	49-130	
Benzo[b]fluoranthene	664	578	87	37-130	
Benzo[g,h,i]perylene	664	568	86	32-130	
Benzo[k]fluoranthene	664	572	86	32-130	
Chrysene	664	553	83	41-130	
Dibenz(a,h)anthracene	664	603	91	27-130	
Fluoranthene	664	591	89	40-130	
Fluorene	664	552	83	40-130	
Indeno[1,2,3-cd]pyrene	664	555	84	30-130	
1-Methylnaphthalene	664	585	88	31-130	
2-Methylnaphthalene	664	554	83	33-130	
Naphthalene	664	528	80	36-130	
Phenanthrene	664	551	83	42-130	
Pyrene	664	547	82	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Matrix: Solid Level: Low Lab File ID: 1CB26006.D

Lab ID: LCS 660-134800/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	689	103	39-130	
Acenaphthylene	668	641	96	38-130	
Anthracene	668	638	96	37-130	
Benzo[a]anthracene	668	648	97	40-130	
Benzo[a]pyrene	668	605	91	49-130	
Benzo[b]fluoranthene	668	701	105	37-130	
Benzo[g,h,i]perylene	668	619	93	32-130	
Benzo[k]fluoranthene	668	629	94	32-130	
Chrysene	668	630	94	41-130	
Dibenz(a,h)anthracene	668	655	98	27-130	
Fluoranthene	668	682	102	40-130	
Fluorene	668	667	100	40-130	
Indeno[1,2,3-cd]pyrene	668	739	111	30-130	
1-Methylnaphthalene	668	689	103	31-130	
2-Methylnaphthalene	668	625	94	33-130	
Naphthalene	668	630	94	36-130	
Phenanthrene	668	629	94	42-130	
Pyrene	668	663	99	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Matrix: Solid Level: Low Lab File ID: 1DB26010.D

Lab ID: 680-87545-A-61-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	825	500 U	811	98	39-130	
Acenaphthylene	825	200 U	837	101	38-130	
Anthracene	825	55	868	99	37-130	
Benzo[a]anthracene	825	270	1280	122	40-130	
Benzo[a]pyrene	825	280	1140	105	49-130	
Benzo[b]fluoranthene	825	480	1440	116	37-130	
Benzo[g,h,i]perylene	825	240	1070	101	32-130	
Benzo[k]fluoranthene	825	160	1050	108	32-130	
Chrysene	825	420	1270	103	41-130	
Dibenz(a,h)anthracene	825	63 J	894	101	27-130	
Fluoranthene	825	630	1800	141	40-130	F
Fluorene	825	26 J	849	100	40-130	
Indeno[1,2,3-cd]pyrene	825	210	1020	99	30-130	
1-Methylnaphthalene	825	120 J	964	103	31-130	
2-Methylnaphthalene	825	140 J	944	97	33-130	
Naphthalene	825	140 J	863	87	36-130	
Phenanthrene	825	400	1340	114	42-130	
Pyrene	825	460	1510	127	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Matrix: Solid Level: Low Lab File ID: 1CB26008.D

Lab ID: 680-87545-84 MS Client ID: FM0161DDD-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	688	100 U	623	91	39-130	
Acenaphthylene	688	5.7 J	628	91	38-130	
Anthracene	688	11	607	87	37-130	
Benzo[a]anthracene	688	51	660	89	40-130	
Benzo[a]pyrene	688	43	629	85	49-130	
Benzo[b]fluoranthene	688	76	669	86	37-130	
Benzo[g,h,i]perylene	688	35	583	80	32-130	
Benzo[k]fluoranthene	688	26	723	101	32-130	
Chrysene	688	67	608	79	41-130	
Dibenz(a,h)anthracene	688	10 J	581	83	27-130	
Fluoranthene	688	81	671	86	40-130	
Fluorene	688	11 J	637	91	40-130	
Indeno[1,2,3-cd]pyrene	688	29	561	77	30-130	
1-Methylnaphthalene	688	40 J	686	94	31-130	
2-Methylnaphthalene	688	47	668	90	33-130	
Naphthalene	688	60	657	87	36-130	
Phenanthrene	688	78	643	82	42-130	
Pyrene	688	67	731	96	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Matrix: Solid Level: Low Lab File ID: 1DB26011.D

Lab ID: 680-87545-A-61-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	825	856	104	5	40	39-130	
Acenaphthylene	825	907	110	8	40	38-130	
Anthracene	825	987	113	13	40	37-130	
Benzo[a]anthracene	825	1410	138	10	40	40-130	F
Benzo[a]pyrene	825	1340	129	16	40	49-130	
Benzo[b]fluoranthene	825	1700	148	17	40	37-130	F
Benzo[g,h,i]perylene	825	1230	120	14	40	32-130	
Benzo[k]fluoranthene	825	1270	134	18	40	32-130	F
Chrysene	825	1560	138	20	40	41-130	F
Dibenz(a,h)anthracene	825	1010	115	12	40	27-130	
Fluoranthene	825	2140	183	17	40	40-130	F
Fluorene	825	929	109	9	40	40-130	
Indeno[1,2,3-cd]pyrene	825	1220	123	18	40	30-130	
1-Methylnaphthalene	825	1070	115	10	40	31-130	
2-Methylnaphthalene	825	1020	107	8	40	33-130	
Naphthalene	825	959	99	11	40	36-130	
Phenanthrene	825	1560	141	15	40	42-130	F
Pyrene	825	1790	162	17	40	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.: 680-87545-5

SDG No.: 68087545-5

Matrix: Solid Level: Low Lab File ID: 1CB26009.D

Lab ID: 680-87545-84 MSD Client ID: FM0161DDD-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	688	612	89	2	40	39-130	
Acenaphthylene	688	627	90	0	40	38-130	
Anthracene	688	649	93	7	40	37-130	
Benzo[a]anthracene	688	679	91	3	40	40-130	
Benzo[a]pyrene	688	642	87	2	40	49-130	
Benzo[b]fluoranthene	688	694	90	4	40	37-130	
Benzo[g,h,i]perylene	688	594	81	2	40	32-130	
Benzo[k]fluoranthene	688	732	103	1	40	32-130	
Chrysene	688	632	82	4	40	41-130	
Dibenz(a,h)anthracene	688	598	85	3	40	27-130	
Fluoranthene	688	666	85	1	40	40-130	
Fluorene	688	628	90	1	40	40-130	
Indeno[1,2,3-cd]pyrene	688	604	84	7	40	30-130	
1-Methylnaphthalene	688	738	102	7	40	31-130	
2-Methylnaphthalene	688	699	95	5	40	33-130	
Naphthalene	688	676	90	3	40	36-130	
Phenanthrene	688	662	85	3	40	42-130	
Pyrene	688	766	102	5	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Lab File ID: 1DB26007.D Lab Sample ID: MB 660-134788/1-A

Matrix: Solid Date Extracted: 02/25/2013 06:16

Instrument ID: BSMD5973 Date Analyzed: 02/26/2013 15:37

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134788/2-A	1DB26008.D	02/26/2013 15:59
	680-87545-A-61-B MS	1DB26010.D	02/26/2013 16:45
	680-87545-A-61-C MSD	1DB26011.D	02/26/2013 17:07
FM0161EEE-CS	680-87545-85	1DB26023.D	02/26/2013 21:38
FM0161FFF-CS	680-87545-86	1DB26024.D	02/26/2013 22:01
FM0161GGG-CS	680-87545-87	1DB26025.D	02/26/2013 22:24
FM0161GGG-CSD	680-87545-88	1DB26026.D	02/26/2013 22:46
FM0161HHH-CS	680-87545-89	1DB26027.D	02/26/2013 23:09
FM0161III-CS	680-87545-90	1DB26028.D	02/26/2013 23:31
FM0161JJJ-CS	680-87545-91	1DB26029.D	02/26/2013 23:54

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Lab File ID: 1CB26005.D Lab Sample ID: MB 660-134800/1-A

Matrix: Solid Date Extracted: 02/25/2013 10:02

Instrument ID: BSMC5973 Date Analyzed: 02/26/2013 14:29

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134800/2-A	1CB26006.D	02/26/2013 14:48
FM0161DDD-CS	680-87545-84	1CB26007.D	02/26/2013 15:06
FM0161DDD-CS MS	680-87545-84 MS	1CB26008.D	02/26/2013 15:25
FM0161DDD-CS MSD	680-87545-84 MSD	1CB26009.D	02/26/2013 15:43

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

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

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

Instrument ID: BSMC5973 DFTPP Injection Time: 11:41

Analysis Batch No.: 134776

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

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134776/3	1CB22003.D	02/22/2013	11:57
	IC 660-134776/4	1CB22004.D	02/22/2013	12:16
	IC 660-134776/5	1CB22005.D	02/22/2013	12:34
	IC 660-134776/6	1CB22006.D	02/22/2013	12:53
	ICIS 660-134776/7	1CB22007.D	02/22/2013	13:11
	IC 660-134776/8	1CB22008.D	02/22/2013	13:29
	IC 660-134776/9	1CB22009.D	02/22/2013	13:48
	ICV 660-134776/10	1CB22010.D	02/22/2013	14:06

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

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Lab File ID: 1CB26002.D DFTPP Injection Date: 02/26/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 13:36

Analysis Batch No.: 134862

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	33.4	
68	Less than 2.0 % of mass 69	0.5	(1.1)1
69	Mass 69 relative abundance	46.3	
70	Less than 2.0 % of mass 69	0.1	(0.3)1
127	10.0 - 80.0 % of mass 198	44.1	
197	Less than 2.0 % of mass 198	0.9	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.8	
275	10.0 - 60.0 % of mass 198	17.6	
365	Greater than 1.0 % of mass 198	3.0	
441	Present but less than mass 443	9.2	
442	Greater than 50.0 % of mass 198	58.9	
443	15.0 - 24.0 % of mass 442	12.4	(21.0)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 660-134862/3	1CB26003.D	02/26/2013	13:53
	MB 660-134800/1-A	1CB26005.D	02/26/2013	14:29
	LCS 660-134800/2-A	1CB26006.D	02/26/2013	14:48
FM0161DDD-CS	680-87545-84	1CB26007.D	02/26/2013	15:06
FM0161DDD-CS MS	680-87545-84 MS	1CB26008.D	02/26/2013	15:25
FM0161DDD-CS MSD	680-87545-84 MSD	1CB26009.D	02/26/2013	15:43

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

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

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

Instrument ID: BSMD5973 DFTPP Injection Time: 11:57

Analysis Batch No.: 134781

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

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134781/3	1DB22003.D	02/22/2013	12:13
	IC 660-134781/4	1DB22004.D	02/22/2013	12:35
	IC 660-134781/5	1DB22005.D	02/22/2013	12:58
	IC 660-134781/6	1DB22006.D	02/22/2013	13:21
	ICIS 660-134781/7	1DB22007.D	02/22/2013	13:43
	IC 660-134781/8	1DB22008.D	02/22/2013	14:06
	IC 660-134781/9	1DB22009.D	02/22/2013	14:28
	ICV 660-134781/10	1DB22010.D	02/22/2013	14:51

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

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Lab File ID: 1DB26002.D DFTPP Injection Date: 02/26/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 13:44

Analysis Batch No.: 134863

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	45.5	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	47.6	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	50.4	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.5	
275	10.0 - 60.0 % of mass 198	25.6	
365	Greater than 1.0 % of mass 198	2.6	
441	Present but less than mass 443	9.6	
442	Greater than 50.0 % of mass 198	60.9	
443	15.0 - 24.0 % of mass 442	13.7	(22.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134863/3	1DB26003.D	02/26/2013	14:04
	MB 660-134788/1-A	1DB26007.D	02/26/2013	15:37
	LCS 660-134788/2-A	1DB26008.D	02/26/2013	15:59
	680-87545-A-61-B MS	1DB26010.D	02/26/2013	16:45
	680-87545-A-61-C MSD	1DB26011.D	02/26/2013	17:07
FM0161EEE-CS	680-87545-85	1DB26023.D	02/26/2013	21:38
FM0161FFF-CS	680-87545-86	1DB26024.D	02/26/2013	22:01
FM0161GGG-CS	680-87545-87	1DB26025.D	02/26/2013	22:24
FM0161GGG-CSD	680-87545-88	1DB26026.D	02/26/2013	22:46
FM0161HHH-CS	680-87545-89	1DB26027.D	02/26/2013	23:09
FM0161III-CS	680-87545-90	1DB26028.D	02/26/2013	23:31
FM0161JJJ-CS	680-87545-91	1DB26029.D	02/26/2013	23:54

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

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

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

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

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

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1215005	3.80	932815	4.89	1859738	5.85
UPPER LIMIT		2430010	4.30	1865630	5.39	3719476	6.35
LOWER LIMIT		607503	3.30	466408	4.39	929869	5.35
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134776/10		1383069	3.80	1075067	4.89	2141313	5.85

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

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

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

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

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2424157	7.80	2664188	9.02		
UPPER LIMIT		4848314	8.30	5328376	9.52		
LOWER LIMIT		1212079	7.30	1332094	8.52		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134776/10		2766374	7.80	3034368	9.02		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Sample No.: CCVIS 660-134862/3 Date Analyzed: 02/26/2013 13:53

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

Lab File ID (Standard): 1CB26003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1293817	3.80	1031051	4.89	2009782	5.85
UPPER LIMIT		2587634	4.30	2062102	5.39	4019564	6.35
LOWER LIMIT		646909	3.30	515526	4.39	1004891	5.35
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134800/1-A		1233497	3.80	975510	4.89	1939984	5.84
LCS 660-134800/2-A		1245708	3.80	991180	4.89	1977796	5.85
680-87545-84	FM0161DDD-CS	1453349	3.80	1153241	4.89	2152827	5.85
680-87545-84 MS	FM0161DDD-CS MS	1590978	3.80	1262631	4.89	2377509	5.85
680-87545-84 MSD	FM0161DDD-CS MSD	1429789	3.80	1175869	4.89	2148571	5.85

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Sample No.: CCVIS 660-134862/3 Date Analyzed: 02/26/2013 13:53

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

Lab File ID (Standard): 1CB26003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2524817	7.80	2478619	9.02		
UPPER LIMIT		5049634	8.30	4957238	9.52		
LOWER LIMIT		1262409	7.30	1239310	8.52		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134800/1-A		2464489	7.79	2575733	9.01		
LCS 660-134800/2-A		2574203	7.79	2595929	9.01		
680-87545-84	FM0161DDD-CS	2401048	7.80	2284996	9.02		
680-87545-84 MS	FM0161DDD-CS MS	2494484	7.80	2243089	9.02		
680-87545-84 MSD	FM0161DDD-CS MSD	2304284	7.80	2138785	9.02		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

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

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

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

Calibration ID: 2761

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2851402	6.18	1685266	7.86	2758746	9.12
UPPER LIMIT		5702804	6.68	3370532	8.36	5517492	9.62
LOWER LIMIT		1425701	5.68	842633	7.36	1379373	8.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3227519	6.19	1973397	7.86	3226971	9.12

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

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

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

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

Calibration ID: 2761

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2741766	11.46	2903096	13.33		
UPPER LIMIT		5483532	11.96	5806192	13.83		
LOWER LIMIT		1370883	10.96	1451548	12.83		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3262056	11.46	3389756	13.34		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Sample No.: CCVIS 660-134863/3 Date Analyzed: 02/26/2013 14:04

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

Lab File ID (Standard): 1DB26003.D Heated Purge: (Y/N) N

Calibration ID: 2761

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2918576	6.18	1762993	7.86	2957631	9.12
UPPER LIMIT		5837152	6.68	3525986	8.36	5915262	9.62
LOWER LIMIT		1459288	5.68	881497	7.36	1478816	8.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134788/1-A		3238776	6.18	2047706	7.85	3335239	9.12
LCS 660-134788/2-A		3172043	6.18	1989031	7.85	3201498	9.12
680-87545-A-61-B MS		3207164	6.18	2022507	7.86	3330885	9.12
680-87545-A-61-C MSD		3009450	6.18	1876073	7.86	3041986	9.11
680-87545-85	FM0161EEE-CS	3331822	6.19	2006339	7.86	3276583	9.12
680-87545-86	FM0161FFF-CS	3081726	6.18	1865411	7.86	3007779	9.12
680-87545-87	FM0161GGG-CS	3279925	6.19	1981362	7.86	3198218	9.12
680-87545-88	FM0161GGG-CSD	3179271	6.18	1933535	7.86	3145245	9.12
680-87545-89	FM0161HHH-CS	3238283	6.19	1959829	7.86	3196532	9.12
680-87545-90	FM0161III-CS	3180446	6.19	1910411	7.86	3105062	9.13
680-87545-91	FM0161JJJ-CS	3358976	6.19	2028339	7.86	3275615	9.13

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Sample No.: CCVIS 660-134863/3 Date Analyzed: 02/26/2013 14:04

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

Lab File ID (Standard): 1DB26003.D Heated Purge: (Y/N) N

Calibration ID: 2761

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3097647	11.47	3318264	13.35		
UPPER LIMIT		6195294	11.97	6636528	13.85		
LOWER LIMIT		1548824	10.97	1659132	12.85		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134788/1-A		3421137	11.46	3657304	13.35		
LCS 660-134788/2-A		3345497	11.46	3529253	13.35		
680-87545-A-61-B MS		3435460	11.46	3601246	13.35		
680-87545-A-61-C MSD		3086649	11.46	3208437	13.35		
680-87545-85	FM0161EEE-CS	3244374	11.47	3175416	13.36		
680-87545-86	FM0161FFF-CS	3041000	11.47	2958301	13.36		
680-87545-87	FM0161GGG-CS	3210226	11.47	3071994	13.37		
680-87545-88	FM0161GGG-CSD	3079858	11.47	2921221	13.37		
680-87545-89	FM0161HHH-CS	3140619	11.47	2865463	13.37		
680-87545-90	FM0161III-CS	3098496	11.48	2769864	13.37		
680-87545-91	FM0161JJJ-CS	3253881	11.48	2845271	13.38		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-5

SDG No.: 68087545-5

Client Sample ID: FM0161DDD-CS | Lab Sample ID: 680-87545-84

Matrix: Solid | Lab File ID: 1CB26007.D

Analysis Method: 8270C LL | Date Collected: 02/15/2013 08:53

Extract. Method: 3546 | Date Extracted: 02/25/2013 10:02

Sample wt/vol: 15.06(g) | Date Analyzed: 02/26/2013 15:06

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

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

% Moisture: 3.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134862 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	5.7	J	41	5.2
120-12-7	Anthracene	11		8.7	4.3
56-55-3	Benzo[a]anthracene	51		8.3	4.0
50-32-8	Benzo[a]pyrene	43		11	5.4
205-99-2	Benzo[b]fluoranthene	76		13	6.3
191-24-2	Benzo[g,h,i]perylene	35		21	4.5
207-08-9	Benzo[k]fluoranthene	26		8.3	3.7
218-01-9	Chrysene	67		9.3	4.6
53-70-3	Dibenz(a,h)anthracene	10	J	21	4.2
206-44-0	Fluoranthene	81		21	4.1
86-73-7	Fluorene	11	J	21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	29		21	7.3
90-12-0	1-Methylnaphthalene	40	J	41	4.5
91-57-6	2-Methylnaphthalene	47		41	7.3
91-20-3	Naphthalene	60		41	4.5
85-01-8	Phenanthrene	78		8.3	4.0
129-00-0	Pyrene	67		21	3.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.b\1CB26007.D
Lab Smp Id: 680-87545-A-84-A Client Smp ID: FM0161DDD-CS
Inj Date : 26-FEB-2013 15:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87545-a-84-a
Misc Info : 680-87545-A-84-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.b\a-bFASTPAHi-m.m
Meth Date : 26-Feb-2013 14:08 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	3.462	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.798	3.798	(1.000)	1453349	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.886	(1.000)	1153241	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2152827	40.0000	
$ 14 o-Terphenyl	230	6.092	6.098	(1.042)	297384	9.14915	629.3014
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2401048	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2284996	40.0000	
2 Naphthalene	128	3.810	3.810	(1.003)	32988	0.87186	59.9690
3 2-Methylnaphthalene	142	4.239	4.239	(1.116)	17134	0.67889	46.6955
4 1-Methylnaphthalene	142	4.298	4.304	(1.132)	13225	0.57535	39.5738
5 Acenaphthylene	152	4.798	4.804	(0.982)	3874	0.08332	5.7310
9 Fluorene	166	5.227	5.227	(1.070)	6013	0.16452	11.3162
11 Phenanthrene	178	5.857	5.857	(1.002)	70920	1.13927	78.3620
12 Anthracene	178	5.892	5.892	(1.008)	10122	0.16626	11.4358
13 Carbazole	167	5.998	5.998	(1.026)	8763	0.16192	11.1374

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.698	6.704	(1.146)	80246	1.17712	80.9652
16 Pyrene	202	6.868	6.868	(0.881)	63070	0.97745	67.2318
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	51118	0.73765	50.7371
19 Chrysene	228	7.815	7.815	(1.002)	67425	0.97223	66.8723
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	65725	1.10064	75.7045
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	23448	0.38277	26.3278
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	36481	0.62895	43.2606
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.227	(1.135)	22879	0.41930	28.8405(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	7760	0.14539	10.0006
26 Benzo(g,h,i)perylene	276	10.597	10.597	(1.175)	29110	0.50999	35.0786

QC Flag Legend

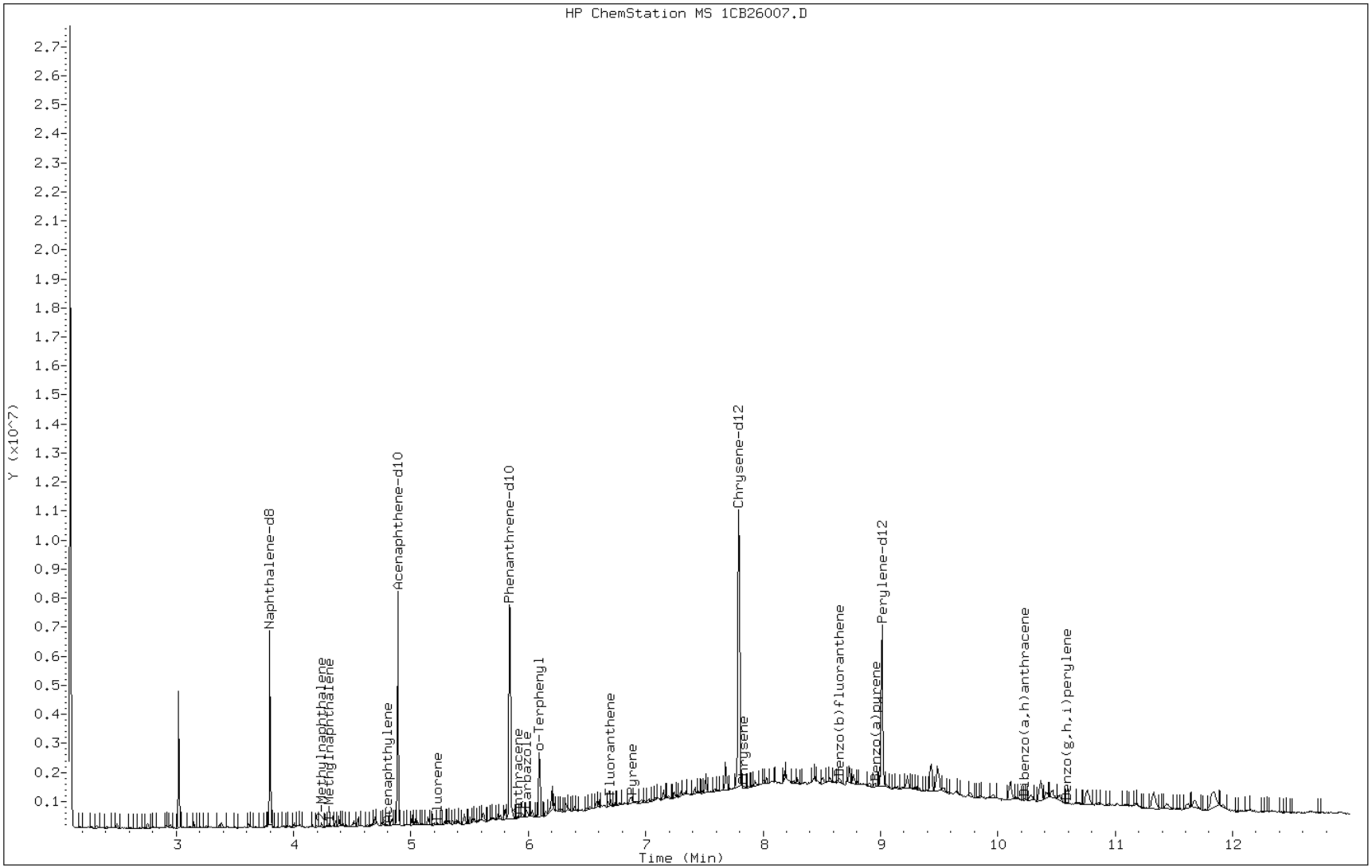
M - Compound response manually integrated.

Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC



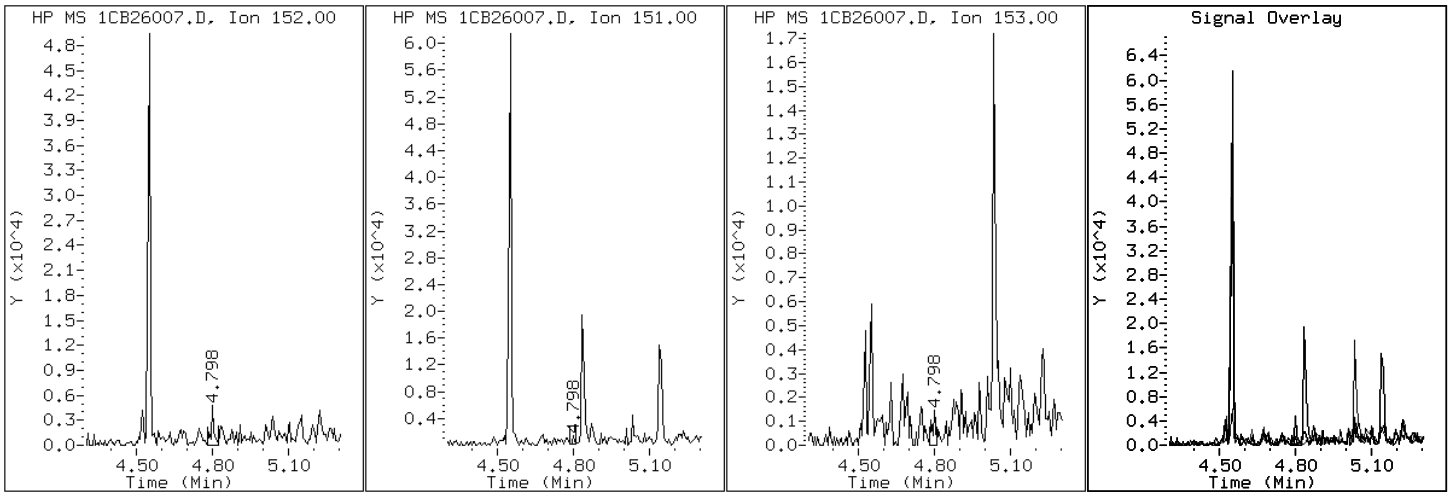
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

5 Acenaphthylene



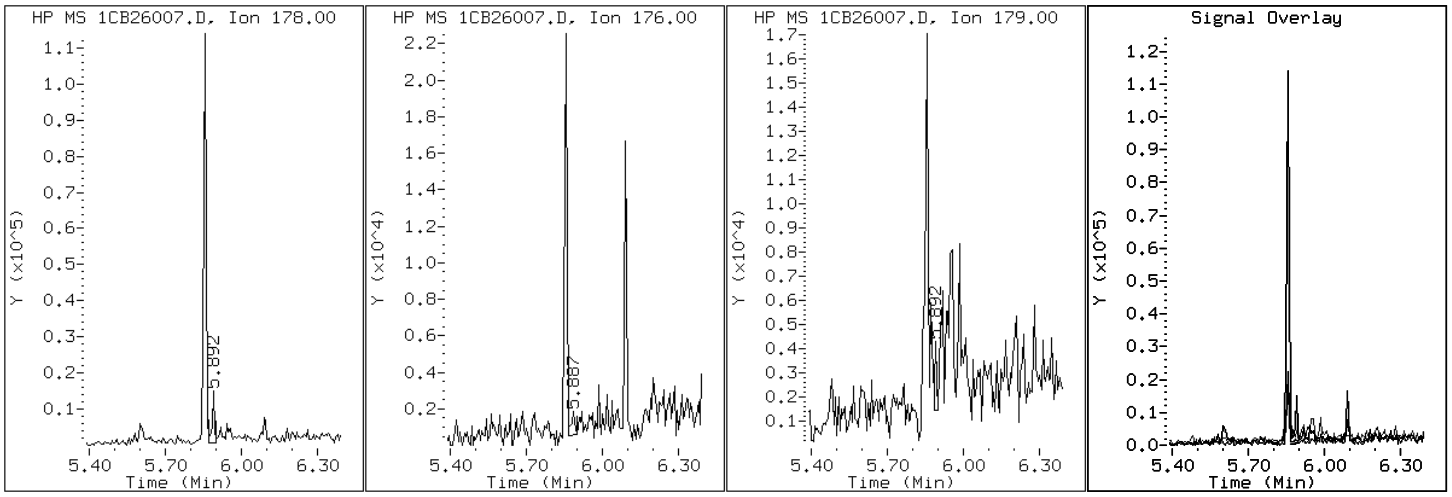
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

12 Anthracene



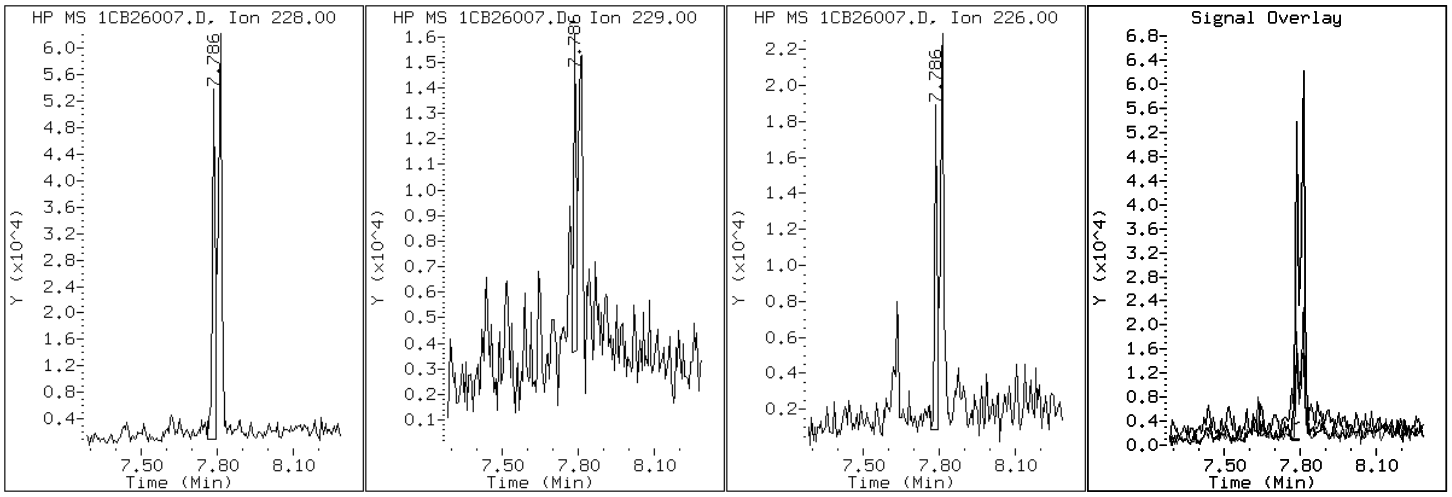
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

17 Benzo(a)anthracene



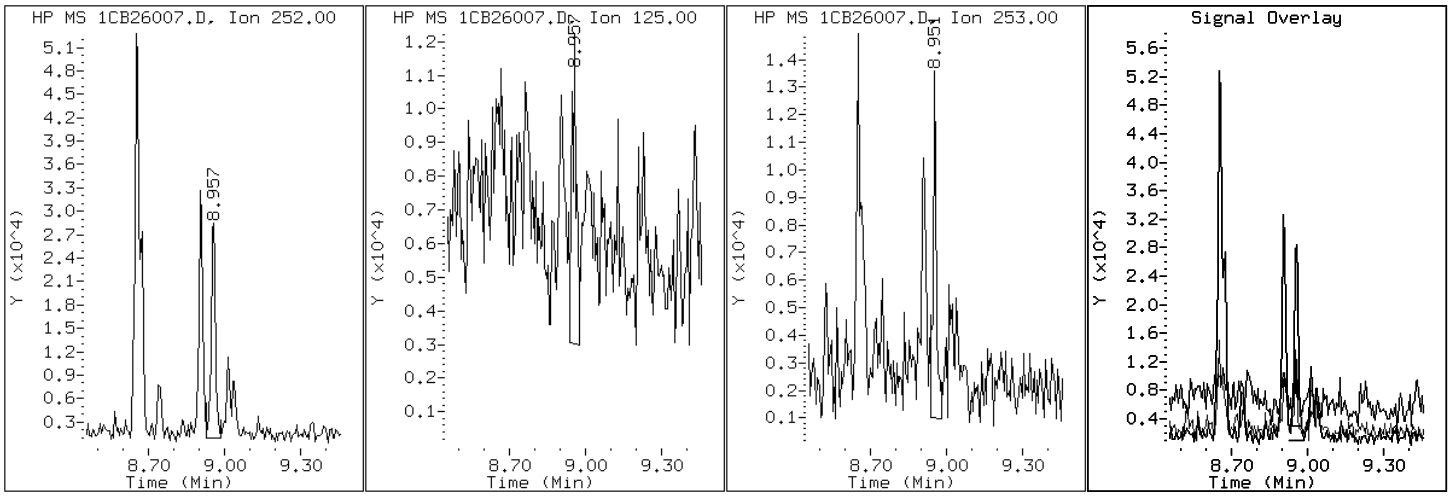
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

22 Benzo(a)pyrene



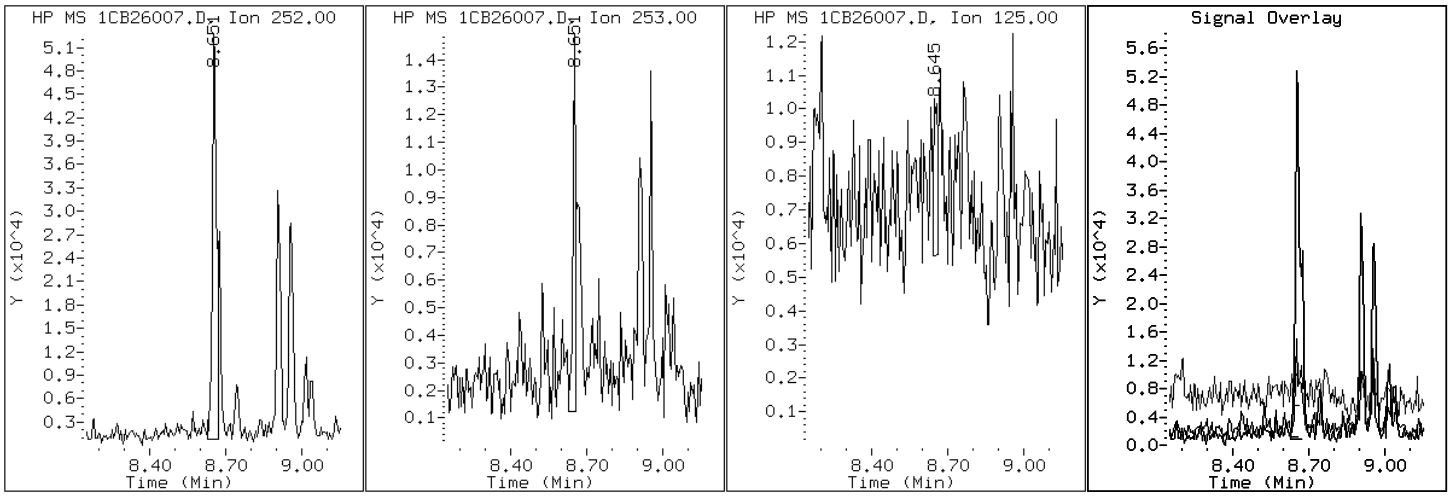
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

20 Benzo(b)fluoranthene



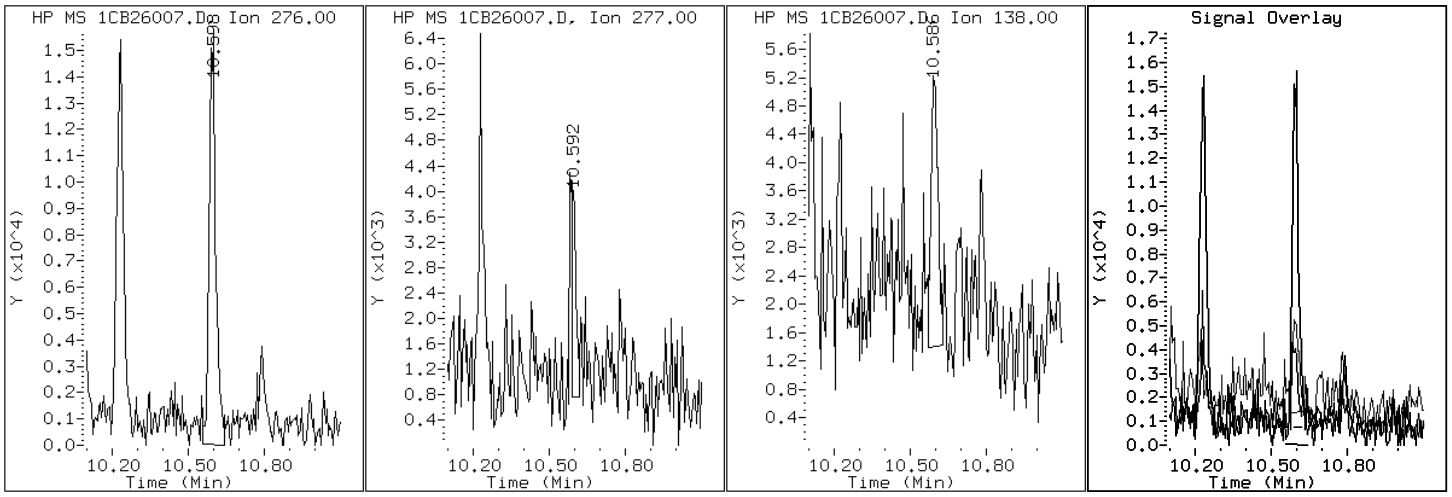
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

26 Benzo(g,h,i)perylene



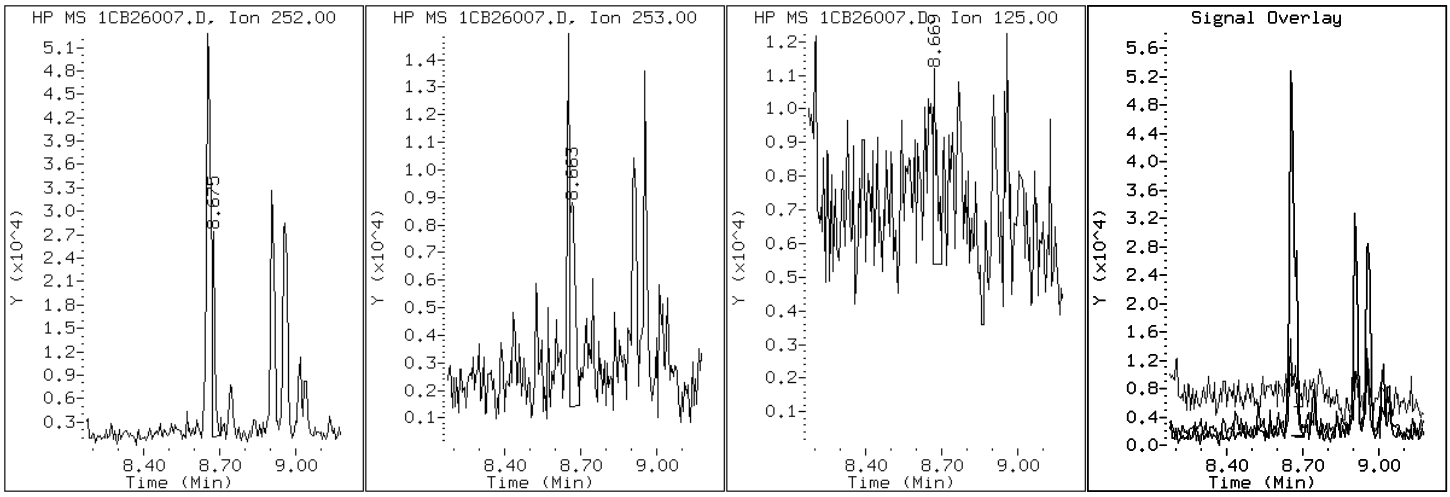
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

21 Benzo(k)fluoranthene



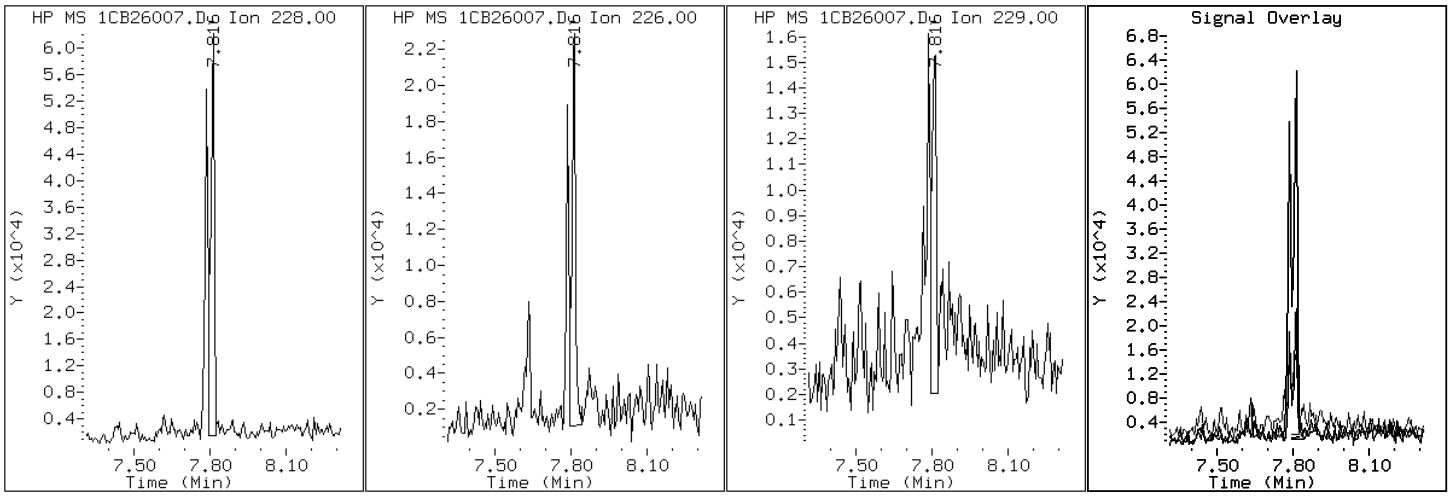
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

19 Chrysene



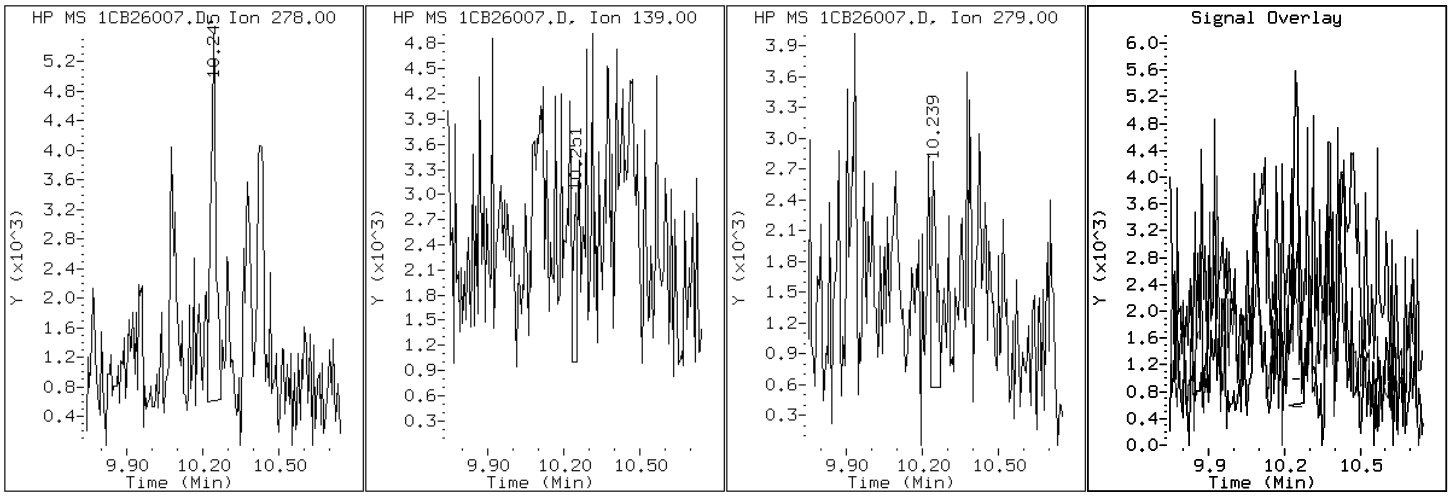
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

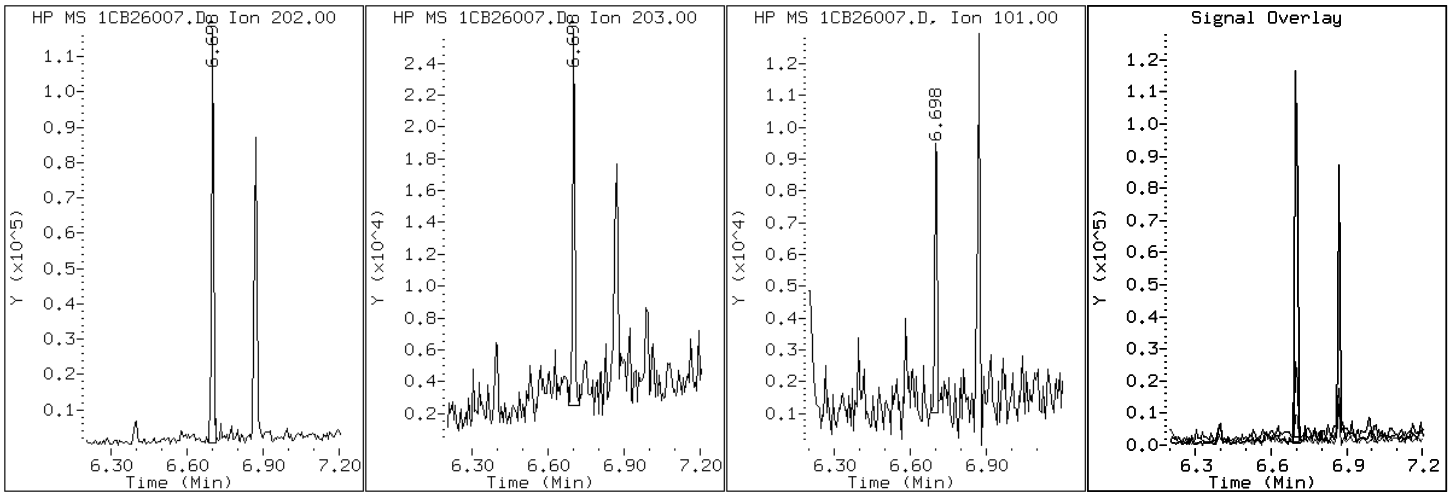
Client ID: FM0161DDD-CS

Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a

Operator: SCC

15 Fluoranthene



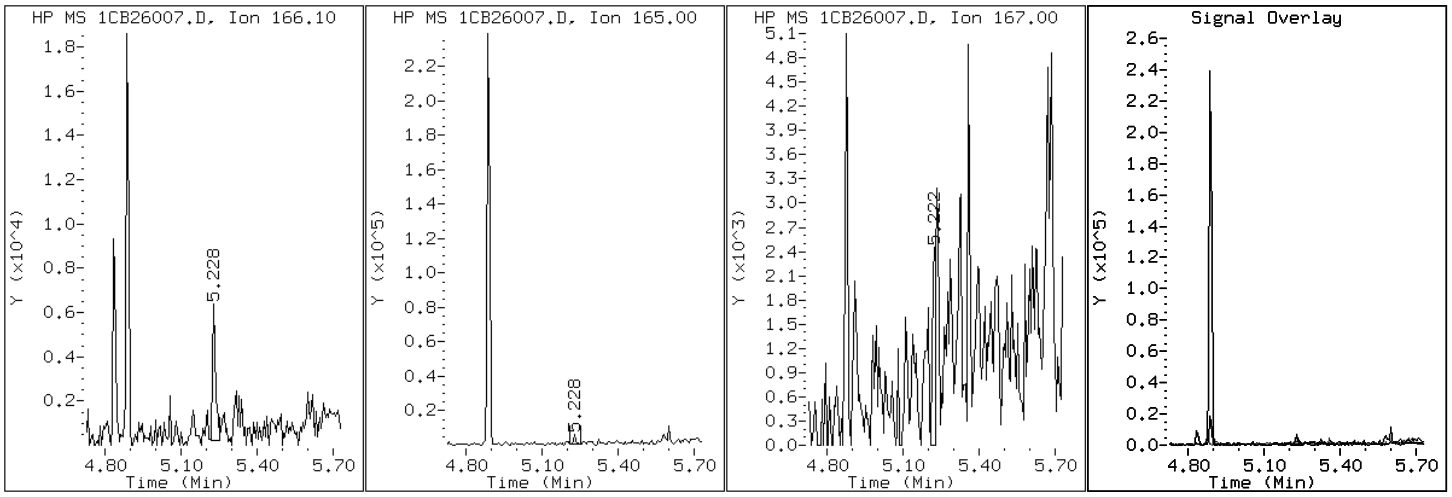
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

9 Fluorene



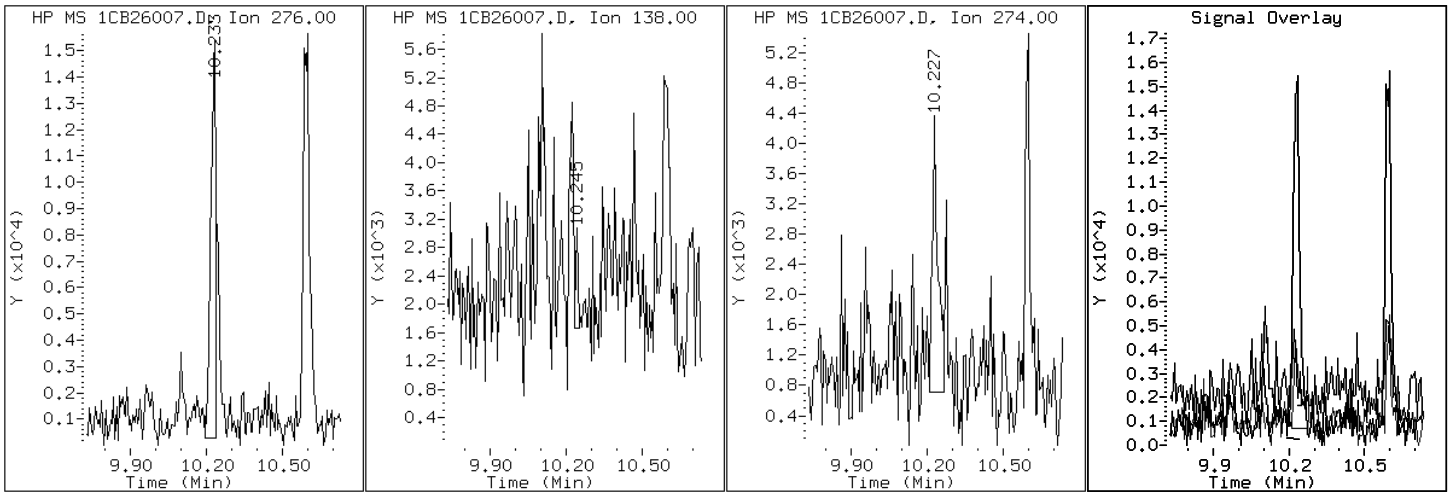
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

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



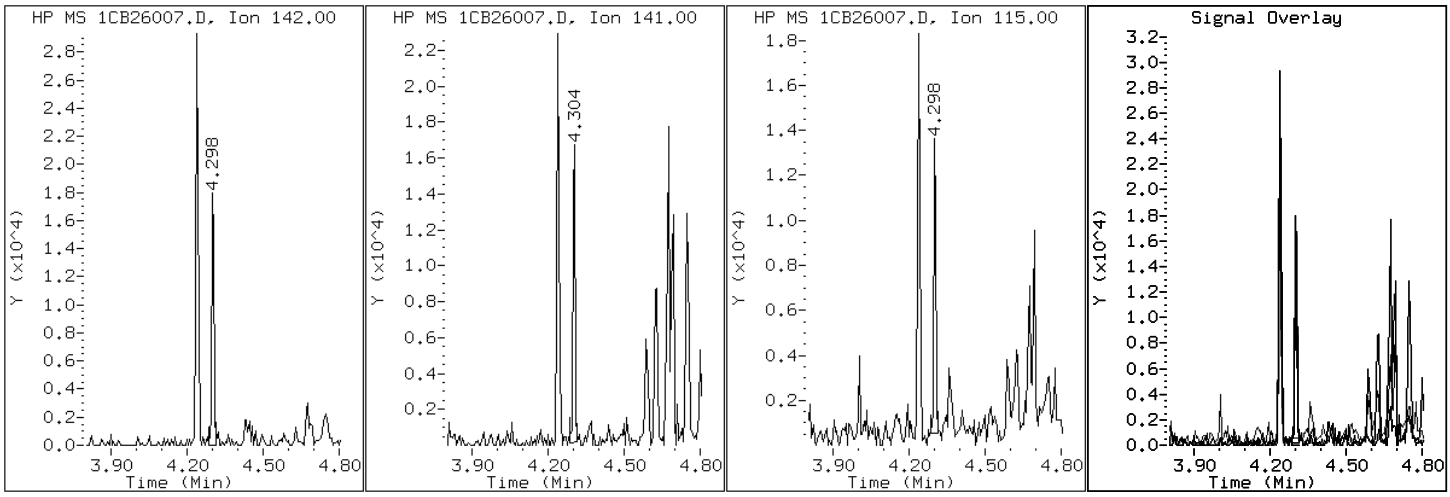
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

4 1-Methylnaphthalene



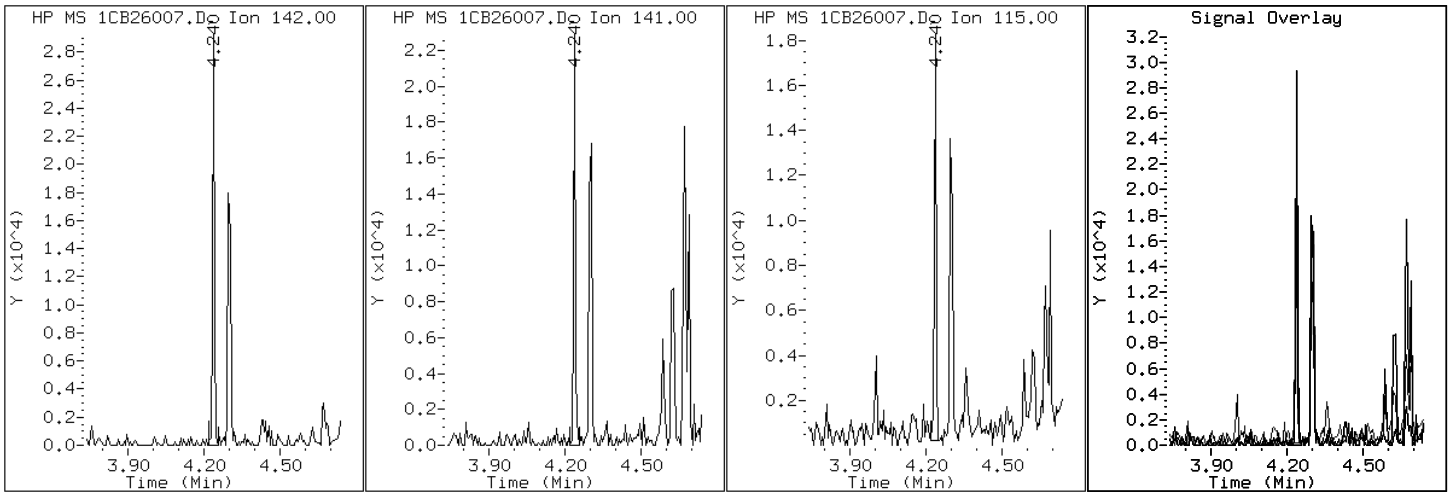
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

3 2-Methylnaphthalene



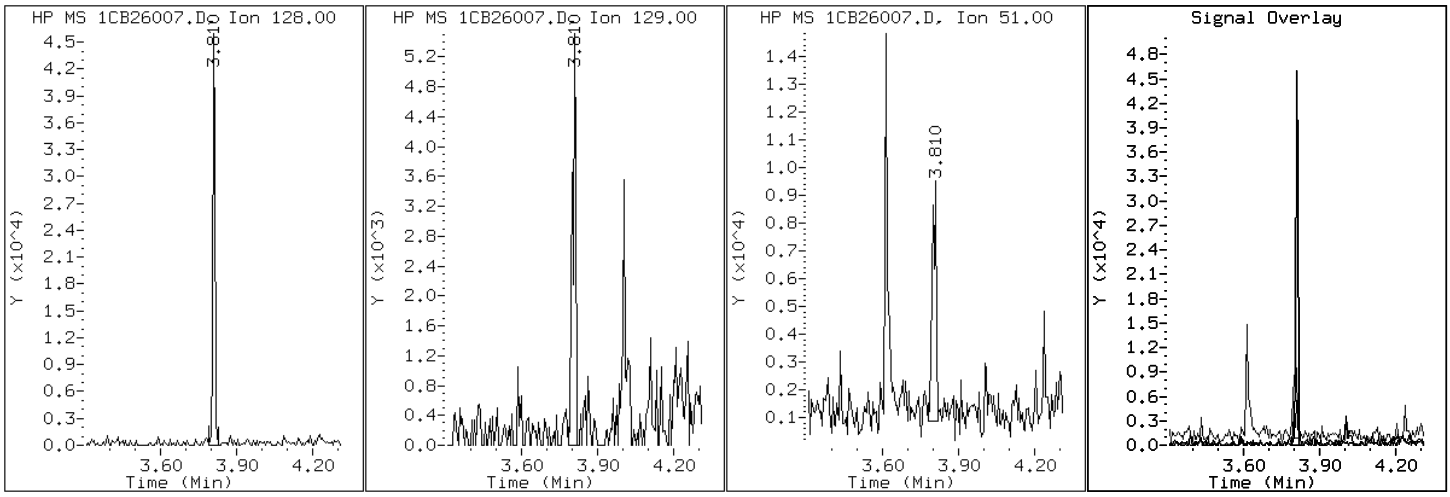
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

2 Naphthalene



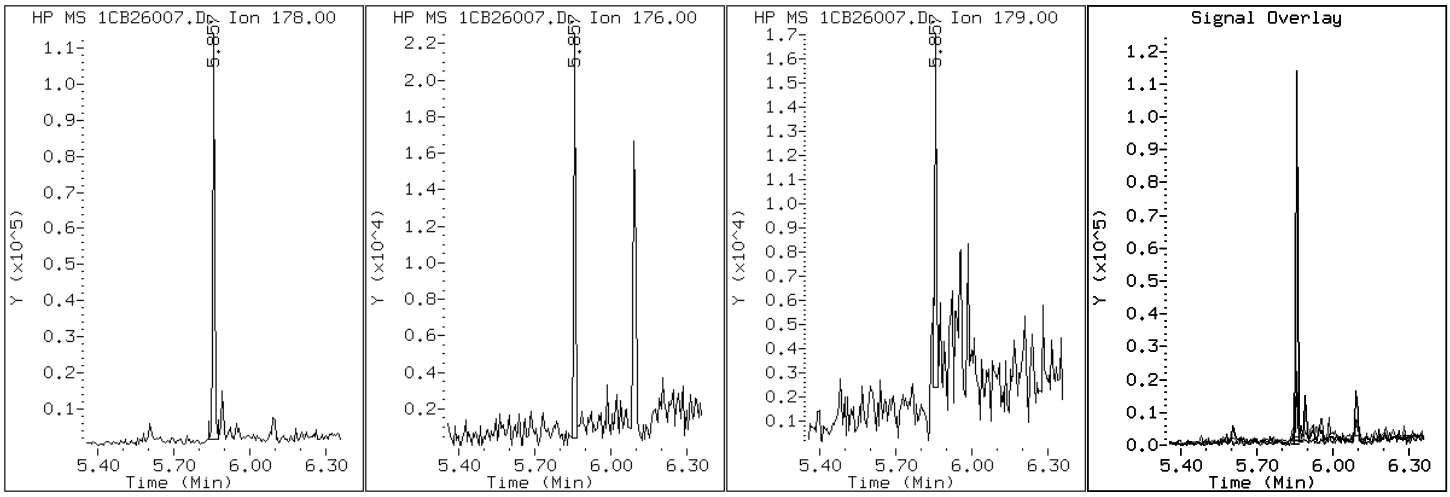
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

11 Phenanthrene



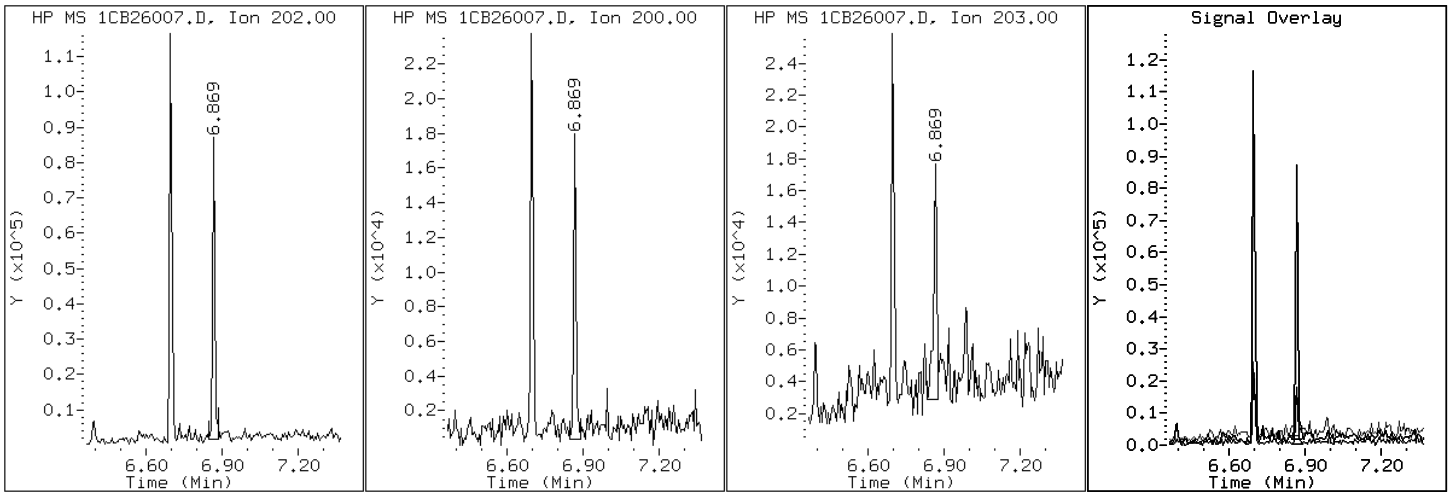
Data File: 1CB26007.D

Date: 26-FEB-2013 15:06

Client ID: FM0161DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB26007.D
Inj. Date and Time: 26-FEB-2013 15:06
Instrument ID: BSMC5973.i
Client ID: FM0161DDD-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

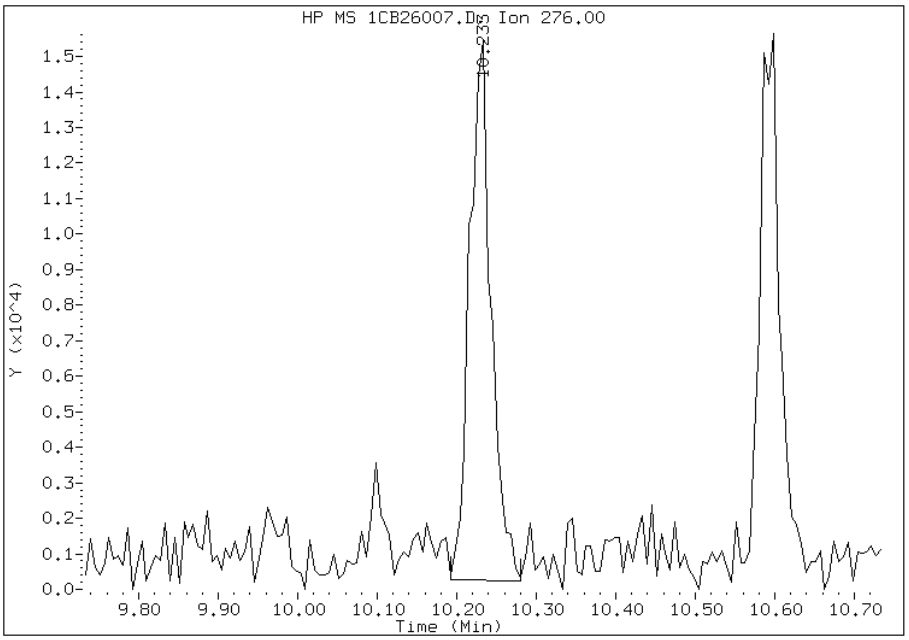
Processing Integration Results

RT: 10.23

Response: 28591

Amount: 1

Conc: 36



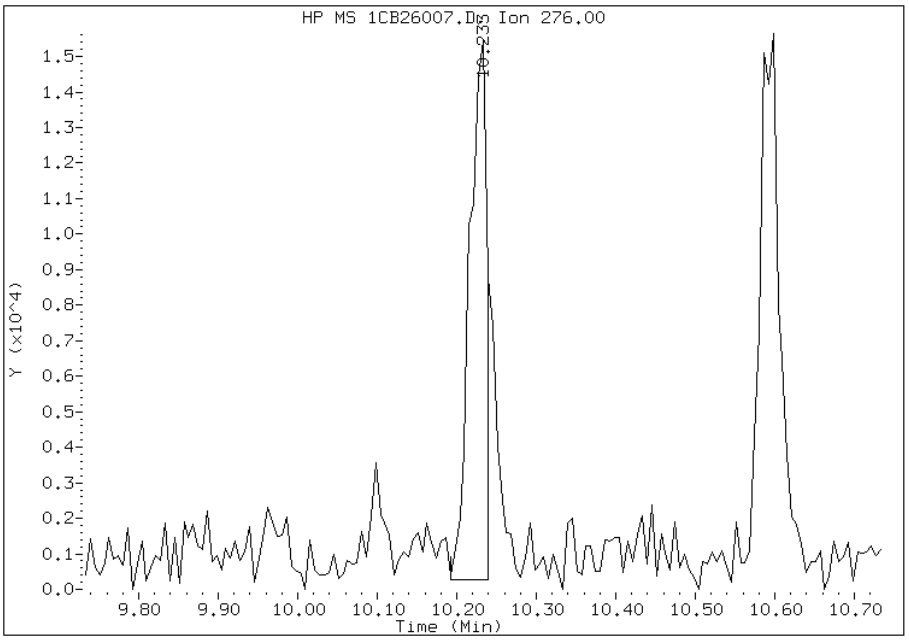
Manual Integration Results

RT: 10.23

Response: 22879

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 15:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-5

SDG No.: 68087545-5

Client Sample ID: FM0161EEE-CS | Lab Sample ID: 680-87545-85

Matrix: Solid | Lab File ID: 1DB26023.D

Analysis Method: 8270C LL | Date Collected: 02/15/2013 08:54

Extract. Method: 3546 | Date Extracted: 02/25/2013 06:16

Sample wt/vol: 15.17(g) | Date Analyzed: 02/26/2013 21:38

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

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

% Moisture: 2.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134863 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	8.7	J	41	5.1
120-12-7	Anthracene	30		8.5	4.3
56-55-3	Benzo[a]anthracene	96		8.1	4.0
50-32-8	Benzo[a]pyrene	76		11	5.3
205-99-2	Benzo[b]fluoranthene	130		12	6.2
191-24-2	Benzo[g,h,i]perylene	41		20	4.5
207-08-9	Benzo[k]fluoranthene	46		8.1	3.7
218-01-9	Chrysene	110		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	15	J	20	4.2
206-44-0	Fluoranthene	190		20	4.1
86-73-7	Fluorene	11	J	20	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	42		20	7.2
90-12-0	1-Methylnaphthalene	40	J	41	4.5
91-57-6	2-Methylnaphthalene	49		41	7.2
91-20-3	Naphthalene	55		41	4.5
85-01-8	Phenanthrene	160	B	8.1	4.0
129-00-0	Pyrene	140		20	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26023.D
Lab Smp Id: 680-87545-A-85-A Client Smp ID: FM0161EEE-CS
Inj Date : 26-FEB-2013 21:38
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-85-A
Misc Info : 680-87545-A-85-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\dFASTPAHi.m
Meth Date : 26-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	2.100	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.185	6.184	(1.000)	3331822	40.0000	
* 6 Acenaphthene-d10	164	7.859	7.859	(1.000)	2006339	40.0000	
* 9 Phenanthrene-d10	188	9.123	9.116	(1.000)	3276583	40.0000	
$ 13 o-Terphenyl	230	9.428	9.427	(1.033)	387490	7.64746	510
* 17 Chrysene-d12	240	11.473	11.466	(1.000)	3244374	40.0000	
* 22 Perylene-d12	264	13.359	13.352	(1.000)	3175416	40.0000	
2 Naphthalene	128	6.203	6.208	(1.003)	72562	0.81413	55
3 2-Methylnaphthalene	142	6.908	6.907	(1.117)	40787	0.71839	48
4 1-Methylnaphthalene	142	6.996	7.001	(1.131)	31249	0.58776	40
5 Acenaphthylene	152	7.724	7.729	(0.983)	11314	0.12791	8.6
8 Fluorene	166	8.324	8.329	(1.059)	10008	0.15882	11
10 Phenanthrene	178	9.140	9.139	(1.002)	214946	2.31097	160
11 Anthracene	178	9.176	9.181	(1.006)	40587	0.43614	29
12 Carbazole	167	9.317	9.316	(1.021)	24858	0.29880	20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.122	10.121	(1.109)	274831	2.83143	190
15 Pyrene	202	10.310	10.309	(0.899)	214716	2.13356	140
16 Benzo(a)anthracene	228	11.455	11.448	(0.998)	126155	1.42028	96
18 Chrysene	228	11.491	11.495	(1.002)	150093	1.63676	110
19 Benzo(b)fluoranthene	252	12.789	12.788	(0.957)	154814	1.89411	130
20 Benzo(k)fluoranthene	252	12.824	12.829	(0.960)	58590	0.68463	46
21 Benzo(a)pyrene	252	13.253	13.252	(0.992)	90115	1.11414	75
23 Indeno(1,2,3-cd)pyrene	276	14.975	14.980	(1.121)	53269	0.61713	42(M)
24 Dibenzo(a,h)anthracene	278	15.004	15.015	(1.123)	17957	0.22526	15
25 Benzo(g,h,i)perylene	276	15.439	15.450	(1.156)	50097	0.60873	41

QC Flag Legend

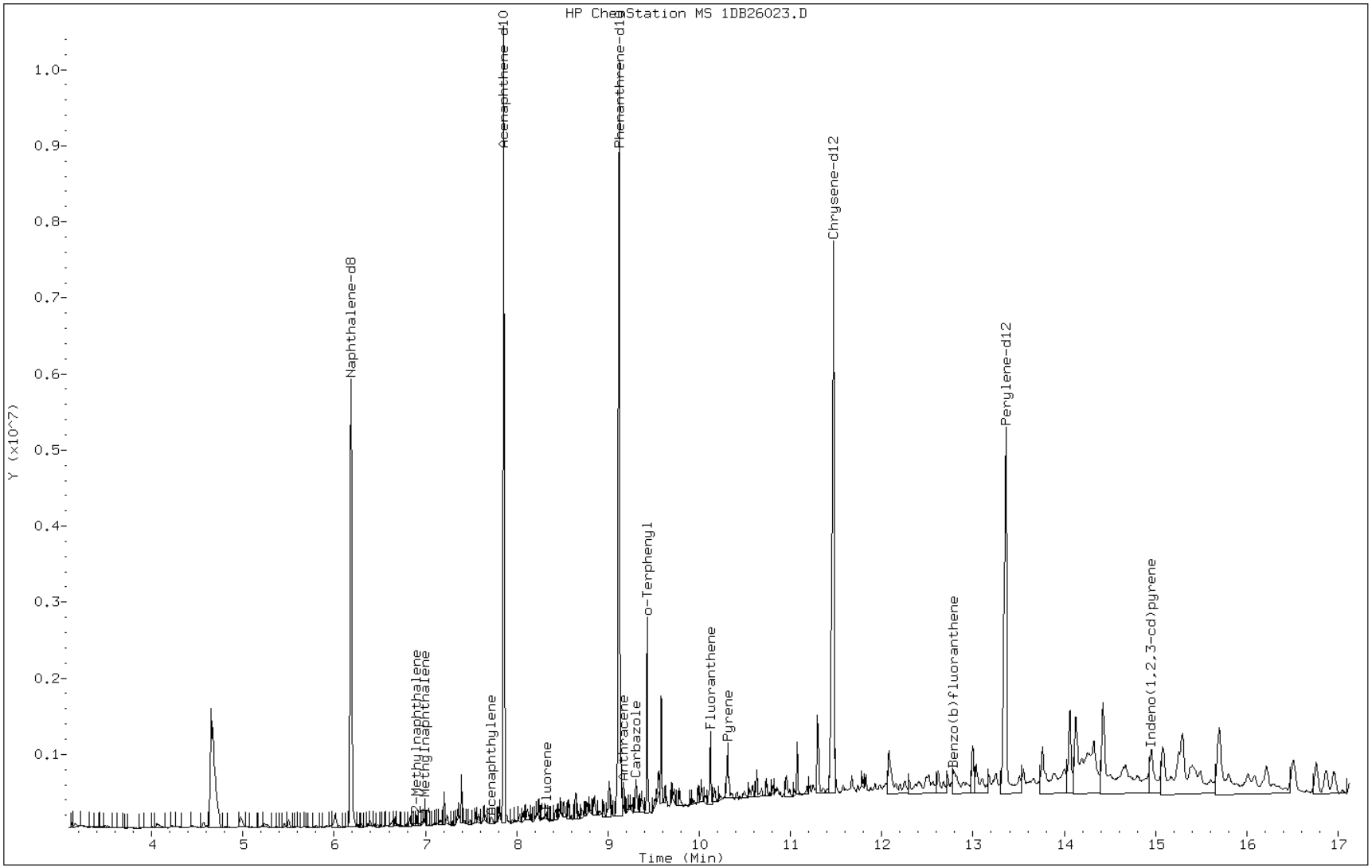
M - Compound response manually integrated.

Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC



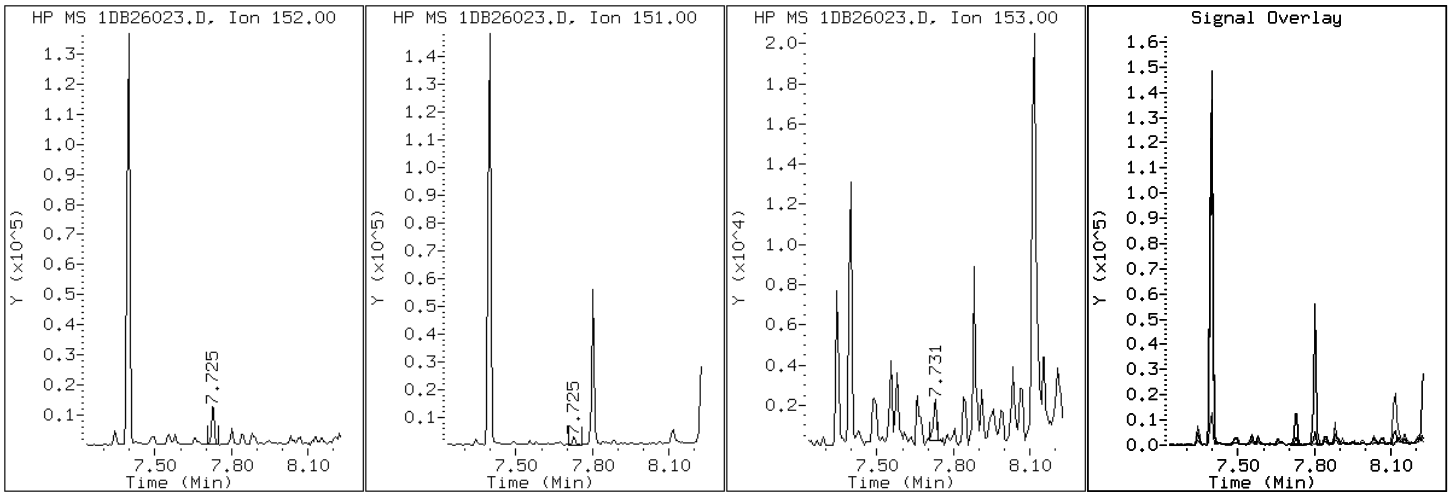
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

5 Acenaphthylene



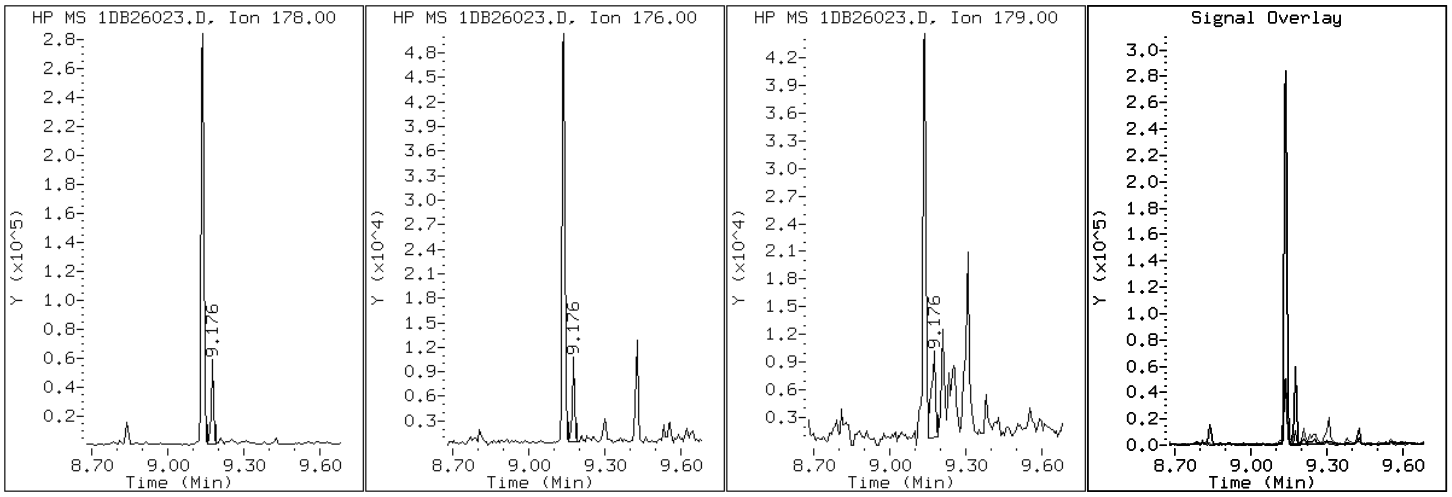
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

11 Anthracene



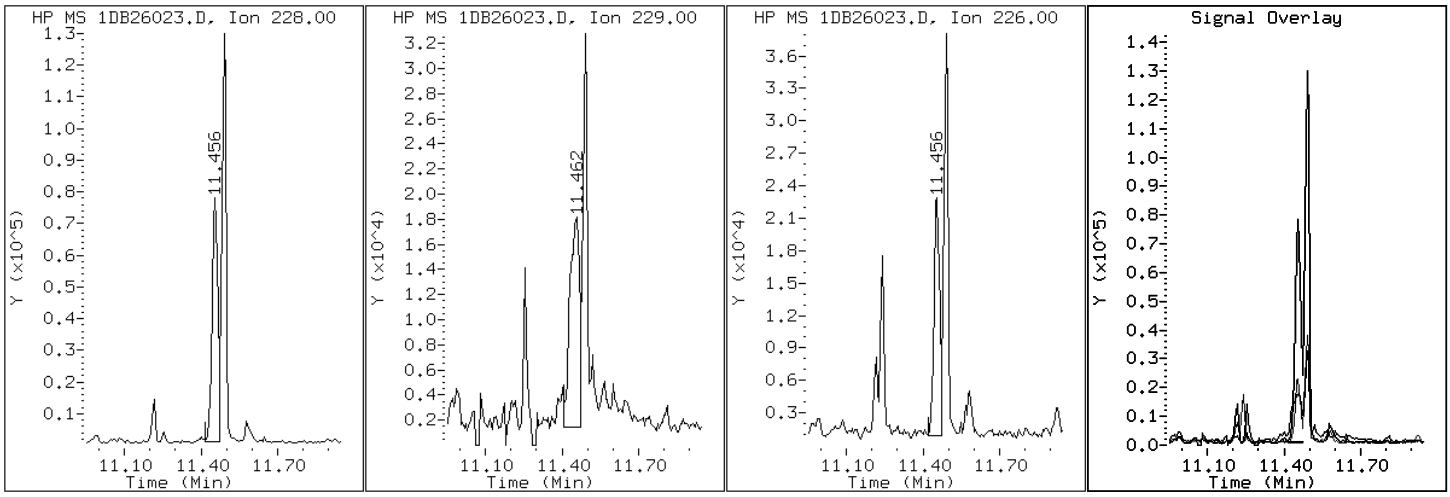
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

16 Benzo(a)anthracene



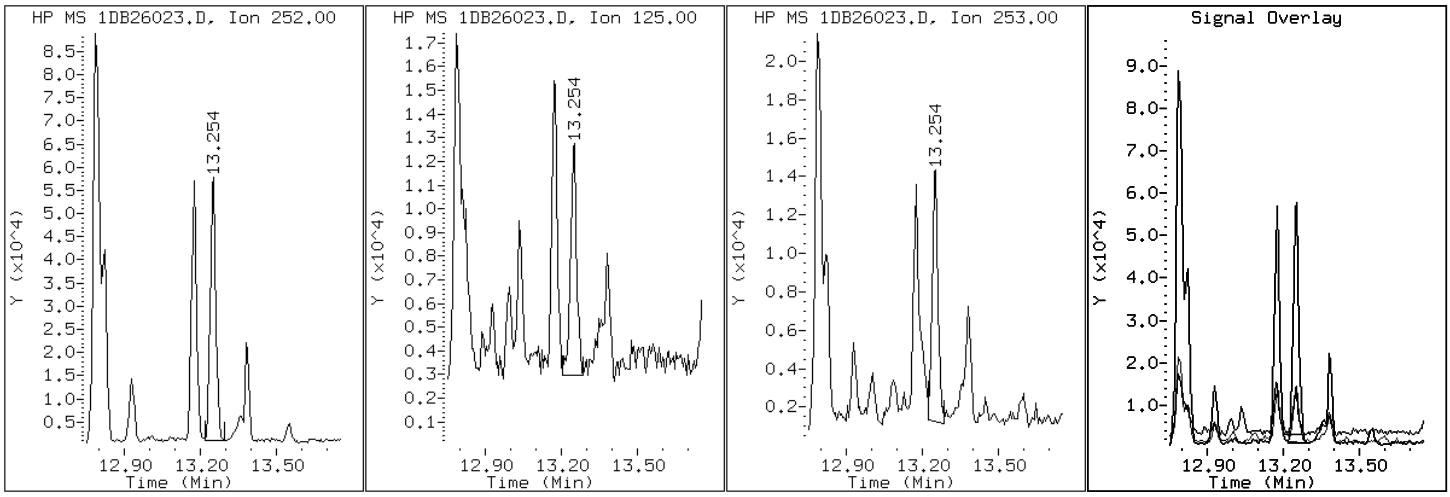
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

21 Benzo(a)pyrene



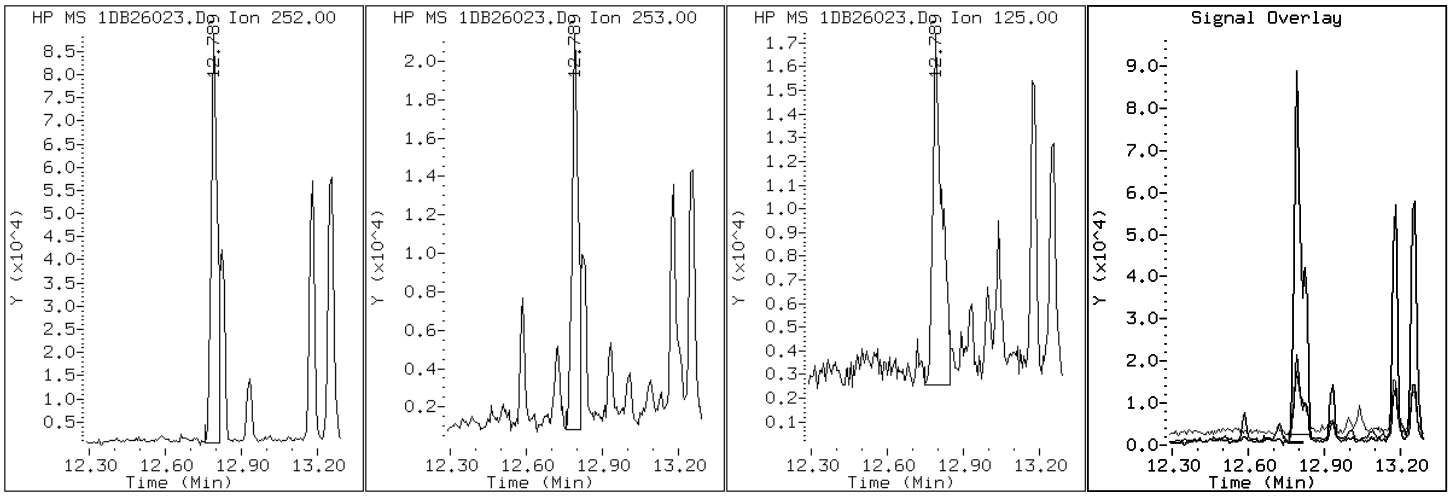
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

19 Benzo(b)fluoranthene



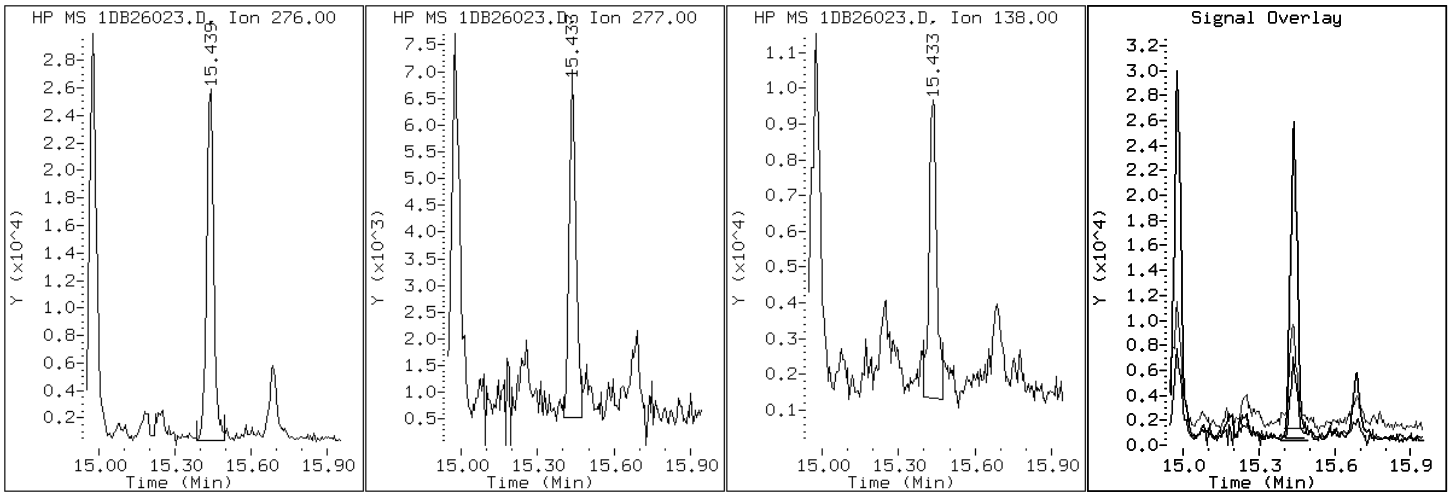
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

25 Benzo(g,h,i)perylene



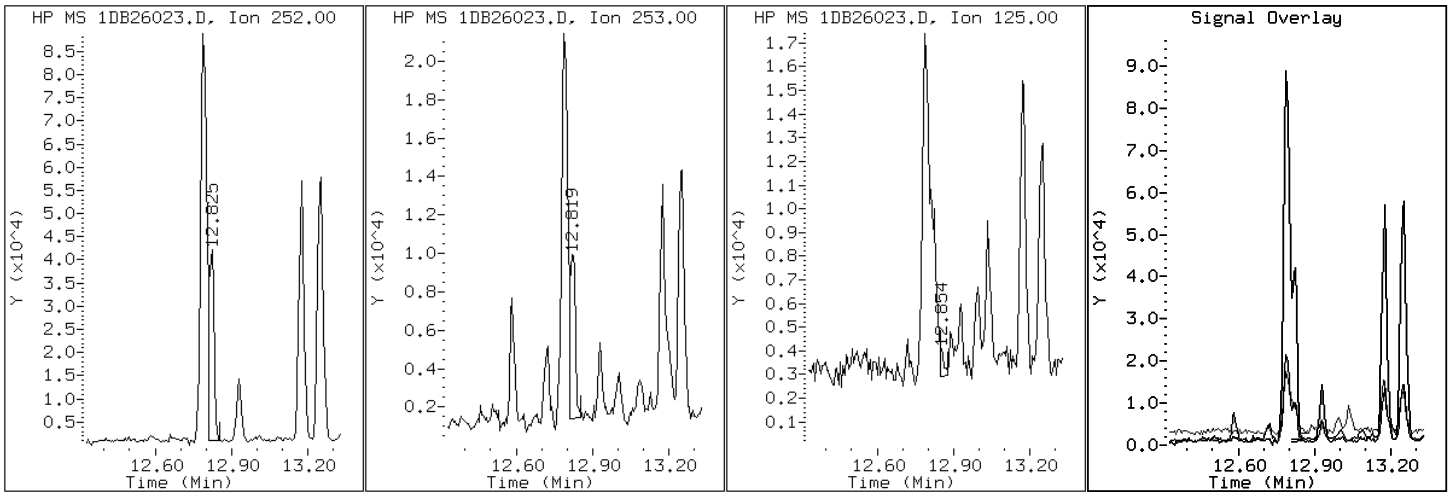
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

20 Benzo(k)fluoranthene



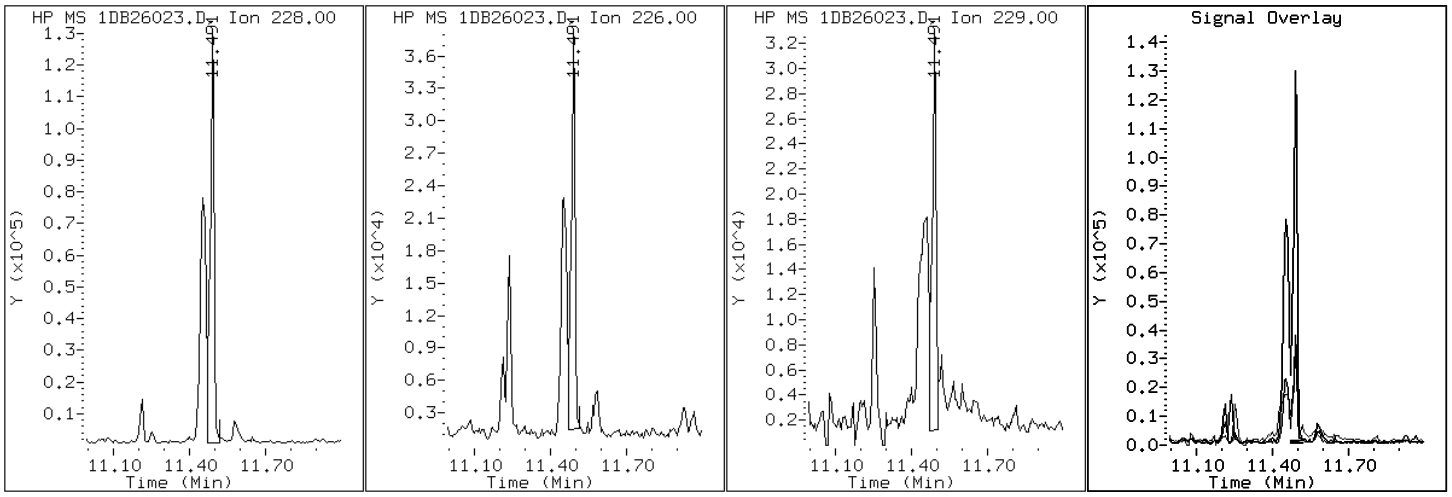
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

18 Chrysene



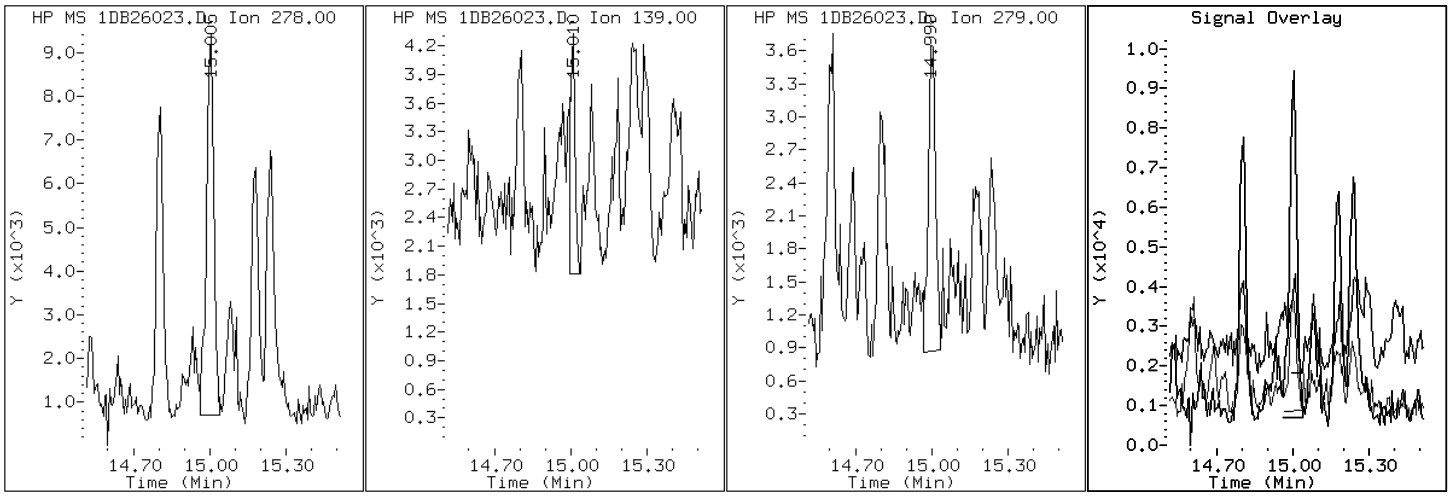
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

24 Dibenzo(a,h)anthracene



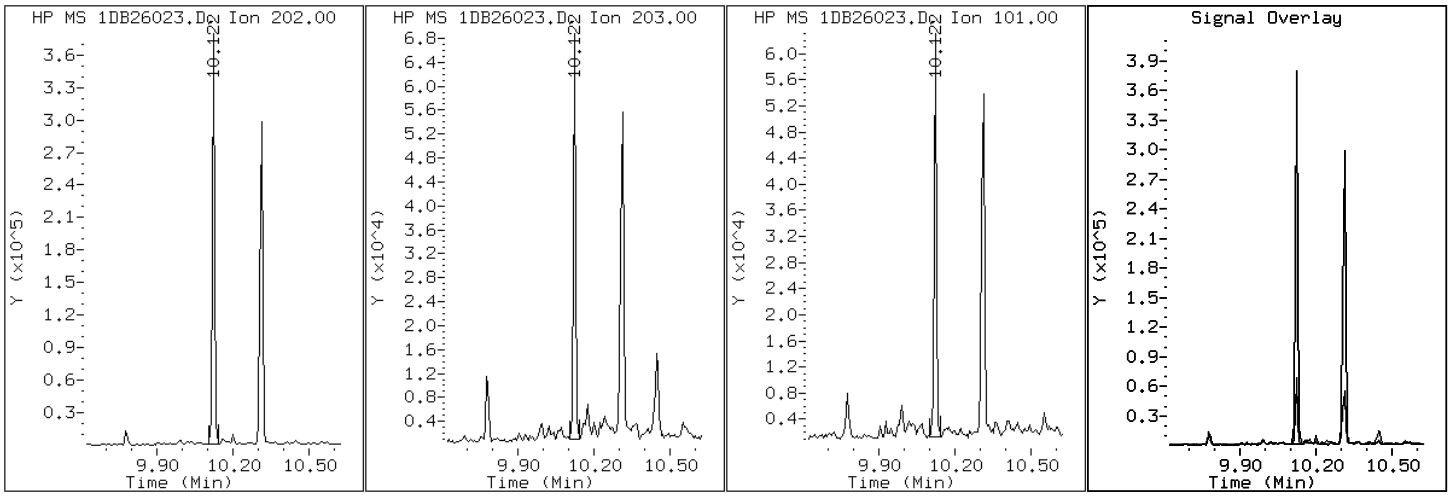
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

14 Fluoranthene



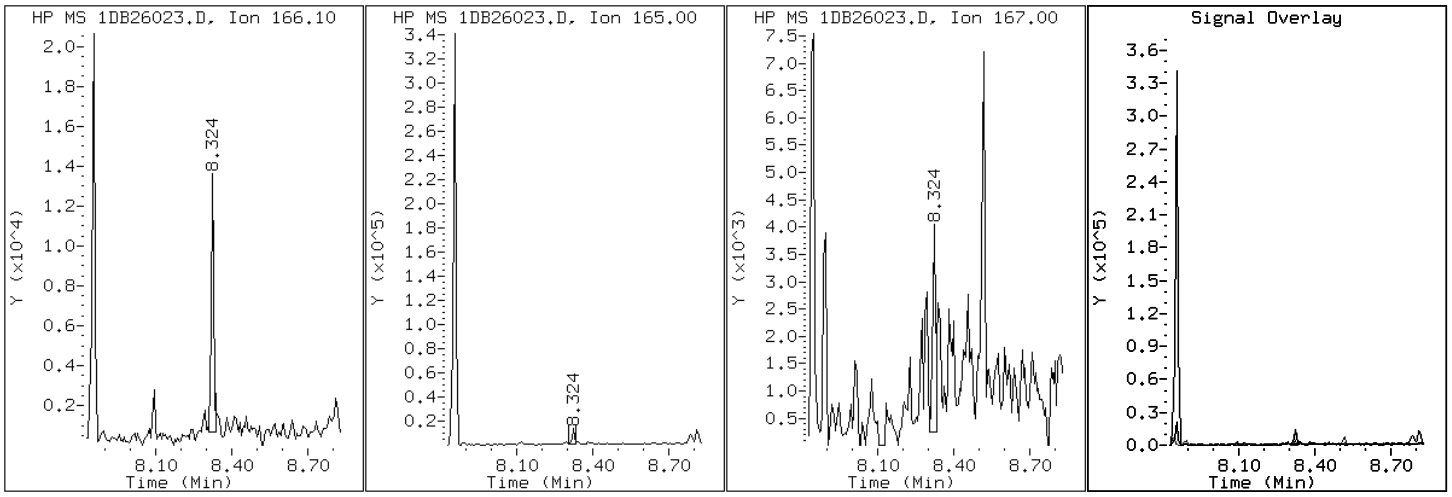
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

8 Fluorene



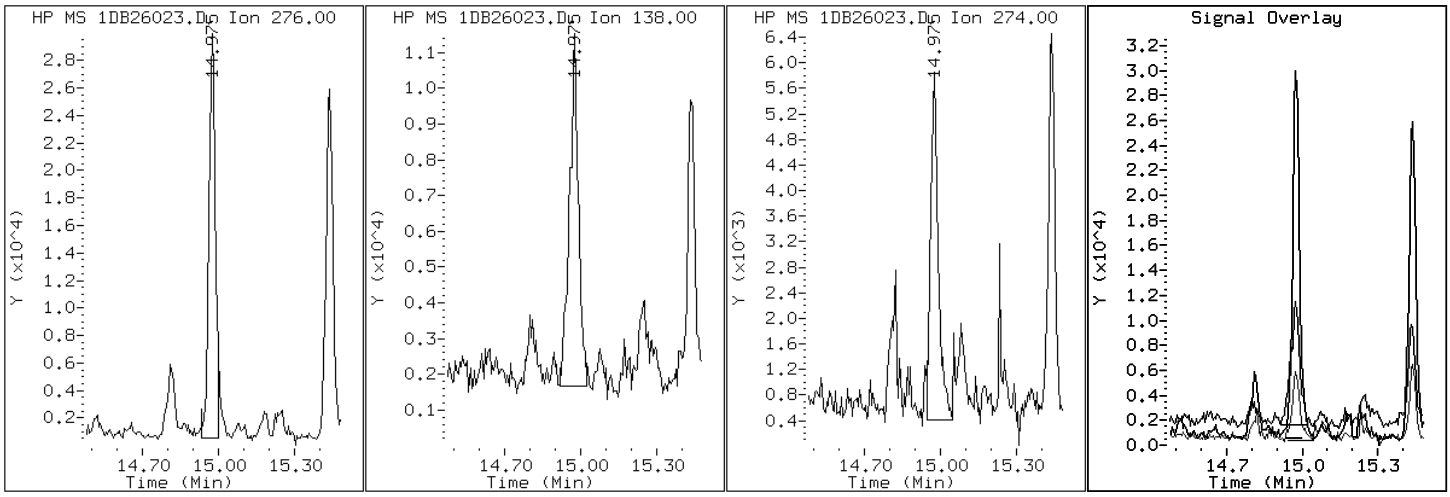
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

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



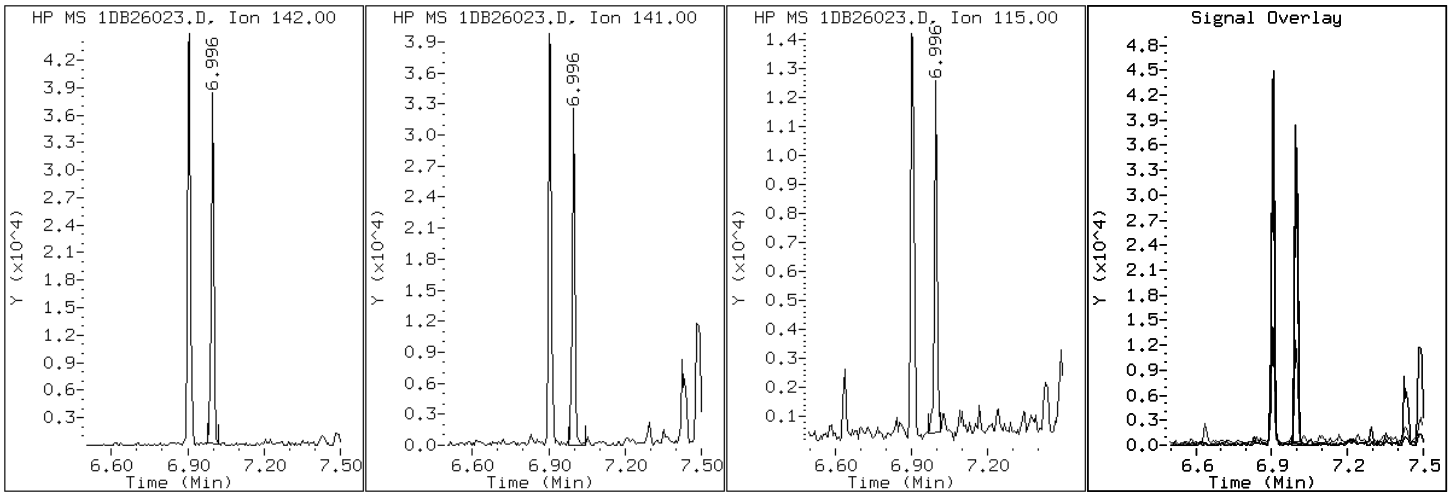
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

4 1-Methylnaphthalene



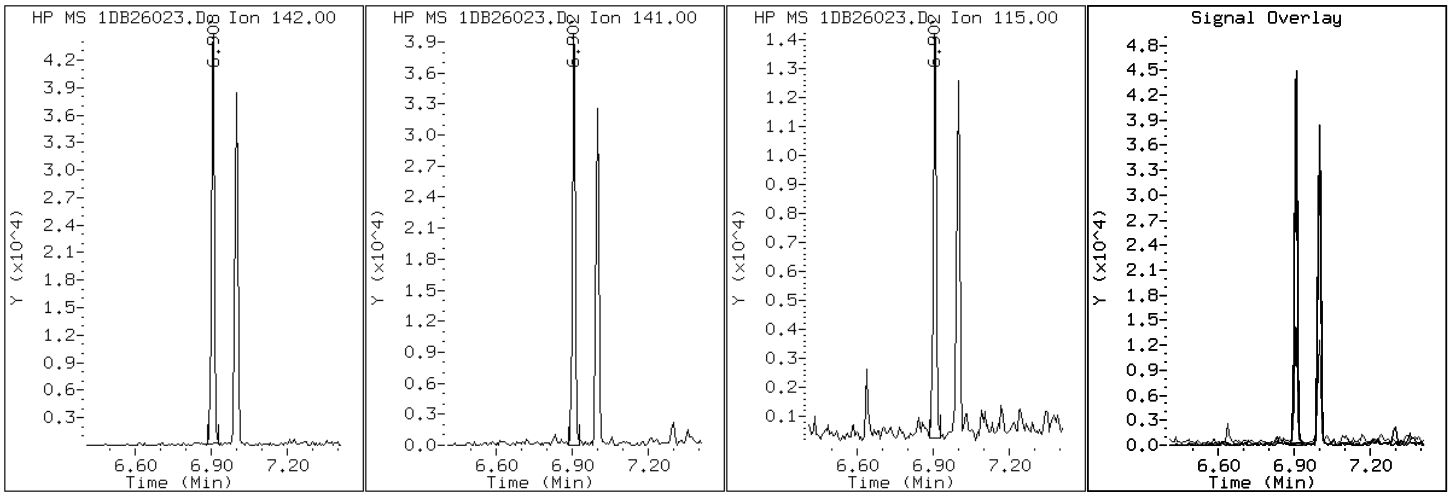
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

3 2-Methylnaphthalene



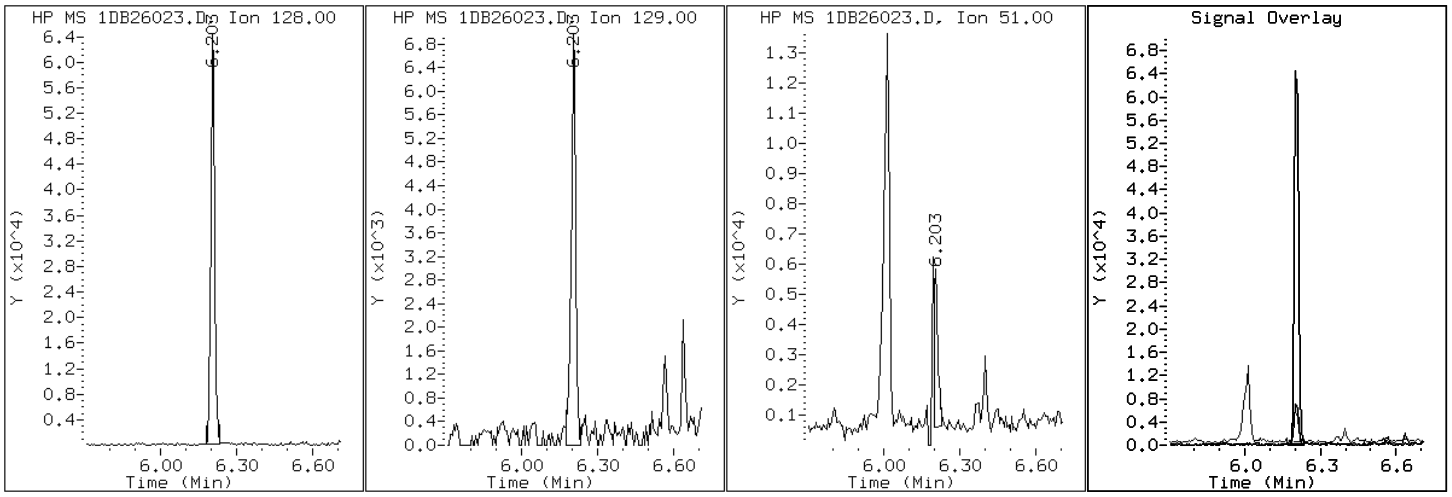
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

2 Naphthalene



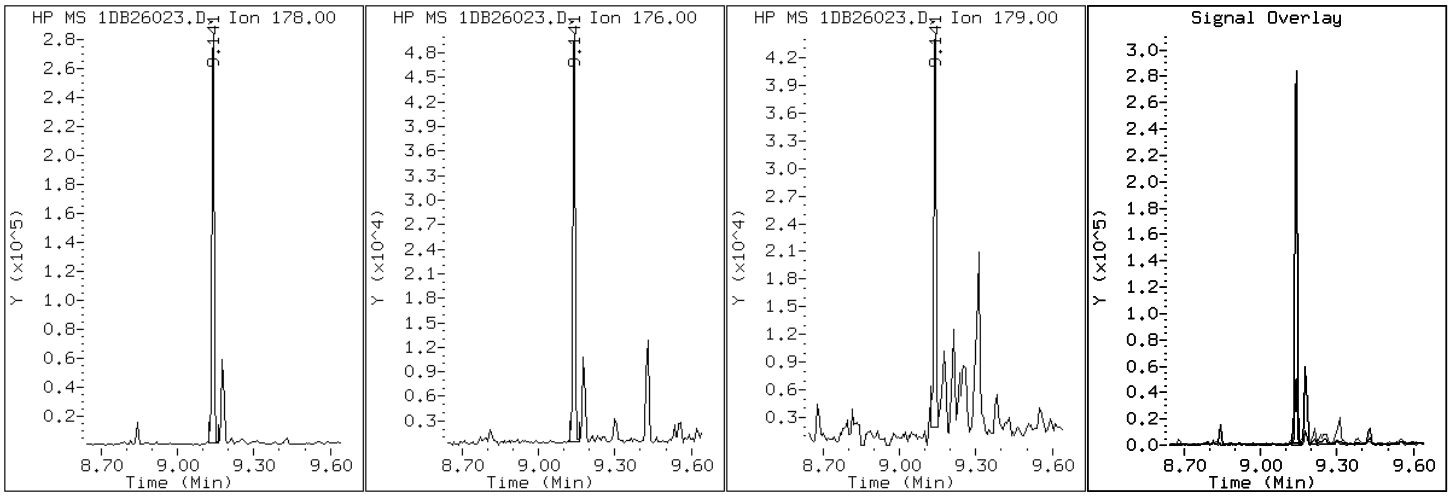
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

10 Phenanthrene



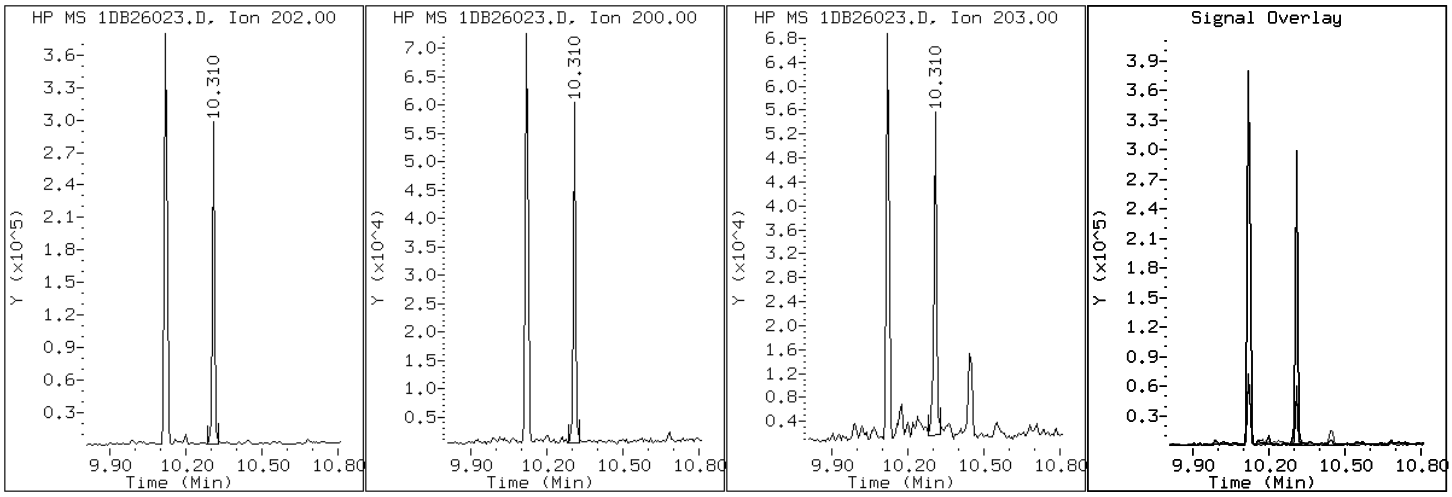
Data File: 1DB26023.D

Date: 26-FEB-2013 21:38

Client ID: FM0161EEE-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-85-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB26023.D
Inj. Date and Time: 26-FEB-2013 21:38
Instrument ID: BSMSD.i
Client ID: FM0161EEE-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/28/2013

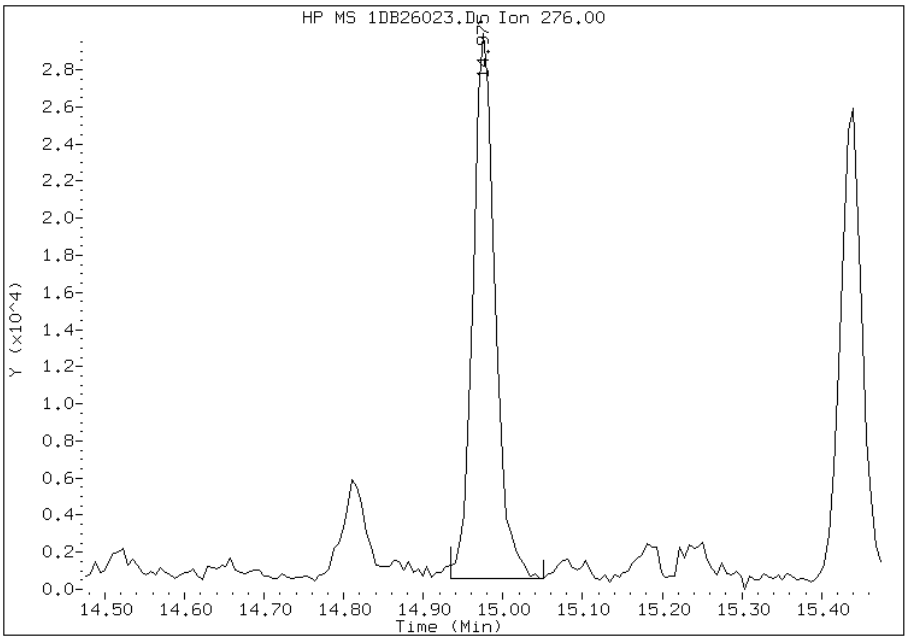
Processing Integration Results

RT: 14.98

Response: 56643

Amount: 1

Conc: 44



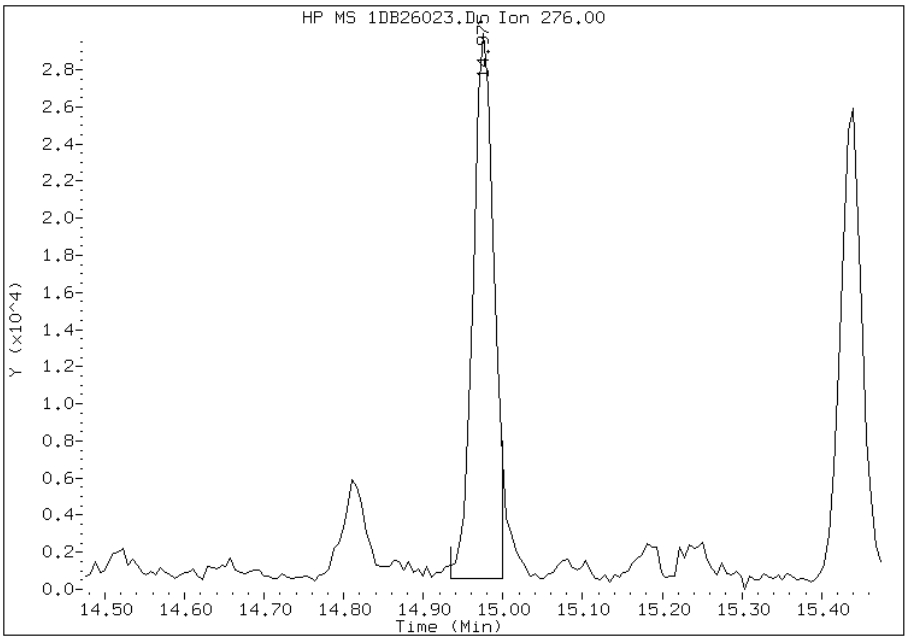
Manual Integration Results

RT: 14.98

Response: 53269

Amount: 1

Conc: 42



Manually Integrated By: cantins
Modification Date: 28-Feb-2013 10:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-5

SDG No.: 68087545-5

Client Sample ID: FM0161FFF-CS | Lab Sample ID: 680-87545-86

Matrix: Solid | Lab File ID: 1DB26024.D

Analysis Method: 8270C LL | Date Collected: 02/15/2013 09:12

Extract. Method: 3546 | Date Extracted: 02/25/2013 06:16

Sample wt/vol: 14.97(g) | Date Analyzed: 02/26/2013 22:01

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

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

% Moisture: 6.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134863 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430	U	430	85
208-96-8	Acenaphthylene	170	U	170	21
120-12-7	Anthracene	30	J	36	18
56-55-3	Benzo[a]anthracene	110		34	17
50-32-8	Benzo[a]pyrene	91		44	22
205-99-2	Benzo[b]fluoranthene	180		52	26
191-24-2	Benzo[g,h,i]perylene	63	J	85	19
207-08-9	Benzo[k]fluoranthene	55		34	15
218-01-9	Chrysene	160		38	19
53-70-3	Dibenz(a,h)anthracene	22	J	85	17
206-44-0	Fluoranthene	170		85	17
86-73-7	Fluorene	85	U	85	17
193-39-5	Indeno[1,2,3-cd]pyrene	60	J	85	30
90-12-0	1-Methylnaphthalene	83	J	170	19
91-57-6	2-Methylnaphthalene	120	J	170	30
91-20-3	Naphthalene	110	J	170	19
85-01-8	Phenanthrene	170	B	34	17
129-00-0	Pyrene	130		85	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	122		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26024.D
Lab Smp Id: 680-87545-A-86-A Client Smp ID: FM0161FFF-CS
Inj Date : 26-FEB-2013 22:01
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-86-A
Misc Info : 680-87545-A-86-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\dFASTPAHi.m
Meth Date : 26-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 24
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	14.970	Weight Extracted
M	6.048	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	3081726	40.0000	
* 6 Acenaphthene-d10	164	7.859	7.859	(1.000)	1865411	40.0000	
* 9 Phenanthrene-d10	188	9.122	9.116	(1.000)	3007779	40.0000	
$ 13 o-Terphenyl	230	9.427	9.427	(1.033)	142015	3.05328	870
* 17 Chrysene-d12	240	11.472	11.466	(1.000)	3041000	40.0000	
* 22 Perylene-d12	264	13.364	13.352	(1.000)	2958301	40.0000	
2 Naphthalene	128	6.208	6.208	(1.004)	32394	0.39295	110
3 2-Methylnaphthalene	142	6.907	6.907	(1.117)	21606	0.41143	120
4 1-Methylnaphthalene	142	7.001	7.001	(1.132)	14328	0.29136	83
5 Acenaphthylene	152	7.729	7.729	(0.984)	4829	0.05872	17
8 Fluorene	166	8.323	8.329	(1.059)	2221	0.03791	11
10 Phenanthrene	178	9.139	9.139	(1.002)	49920	0.58467	170
11 Anthracene	178	9.175	9.181	(1.006)	8881	0.10396	30
12 Carbazole	167	9.316	9.316	(1.021)	5727	0.07499	21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.121	10.121	(1.109)	53381	0.59910	170
15 Pyrene	202	10.309	10.309	(0.899)	42115	0.44647	130
16 Benzo(a)anthracene	228	11.454	11.448	(0.998)	33199	0.39876	110
18 Chrysene	228	11.490	11.495	(1.002)	48066	0.55921	160(M)
19 Benzo(b)fluoranthene	252	12.794	12.788	(0.957)	48867	0.64175	180
20 Benzo(k)fluoranthene	252	12.829	12.829	(0.960)	15371	0.19279	55
21 Benzo(a)pyrene	252	13.252	13.252	(0.992)	24140	0.32036	91
23 Indeno(1,2,3-cd)pyrene	276	14.974	14.980	(1.120)	16861	0.20967	60(M)
24 Dibenzo(a,h)anthracene	278	15.015	15.015	(1.124)	5663	0.07625	22
25 Benzo(g,h,i)perylene	276	15.438	15.450	(1.155)	17092	0.22293	63

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DB26024.D

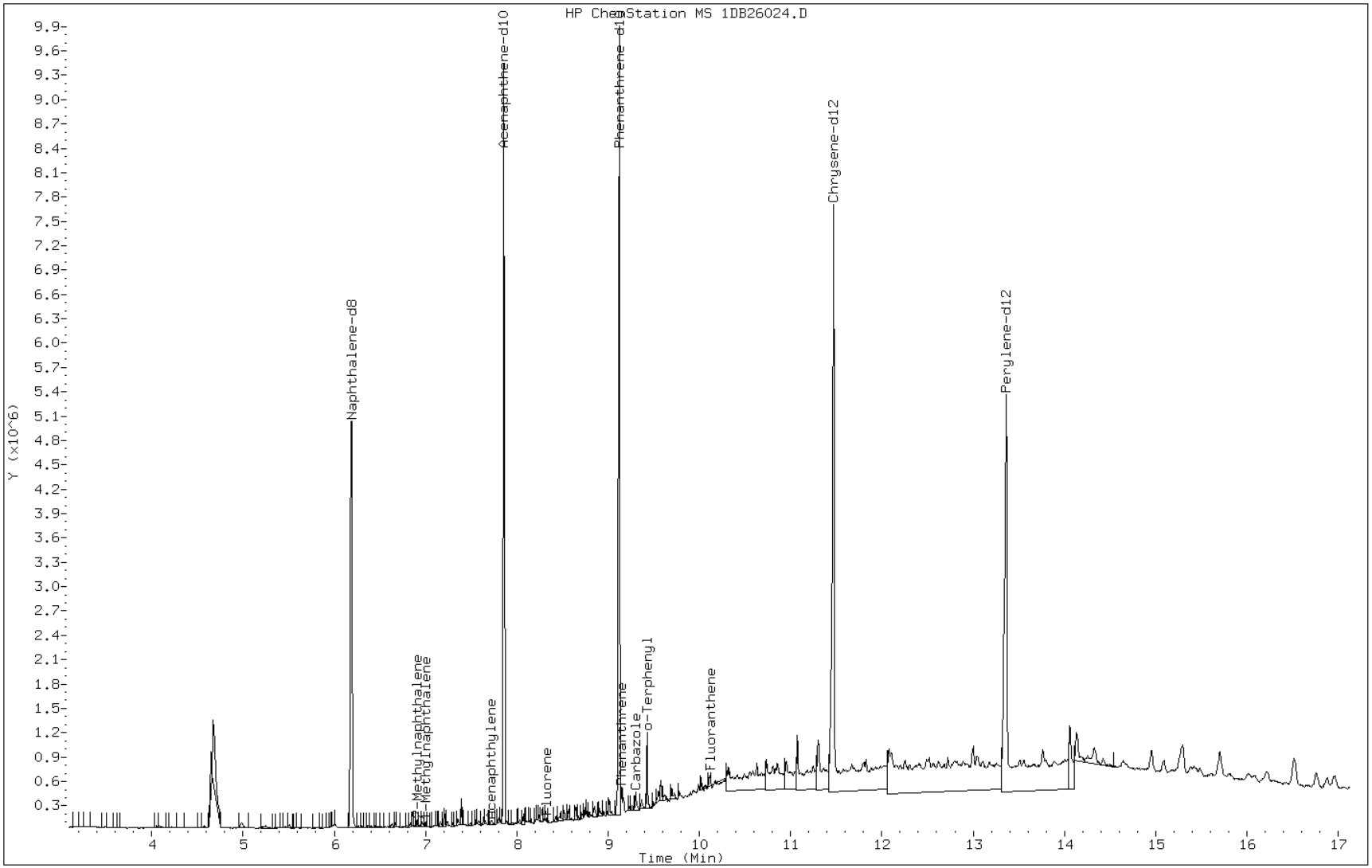
Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A

Operator: SCC



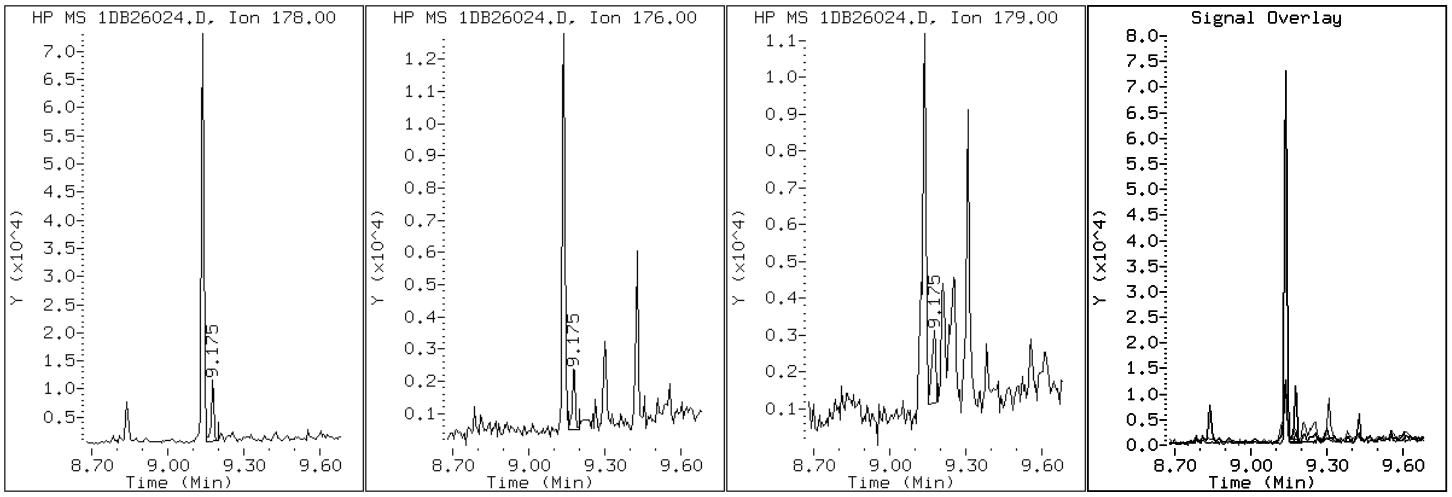
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

11 Anthracene



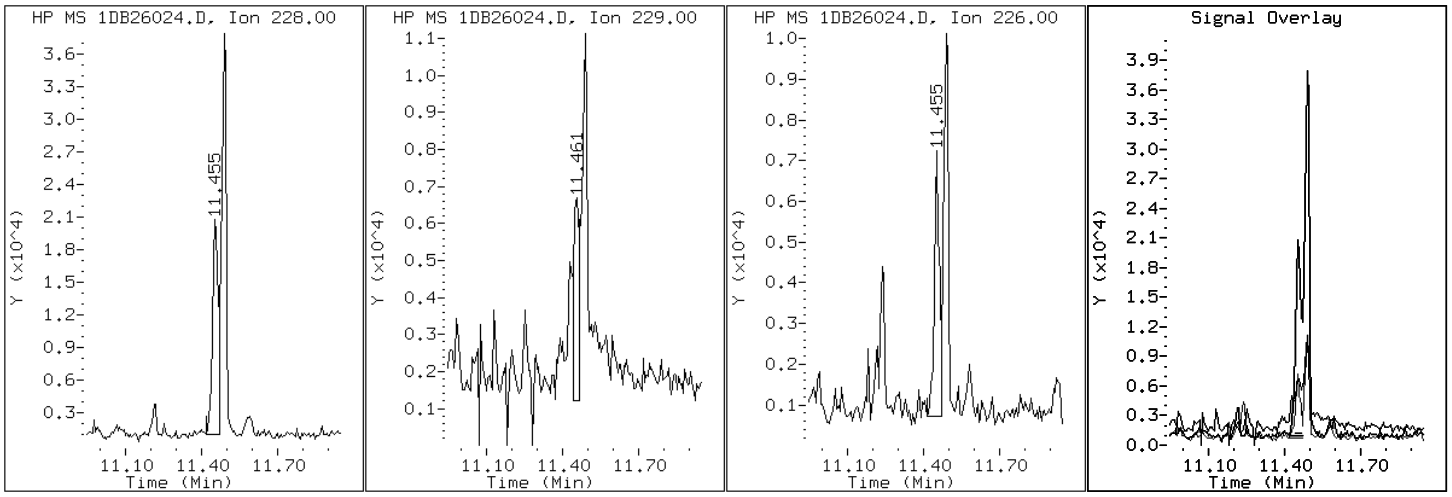
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

16 Benzo(a)anthracene



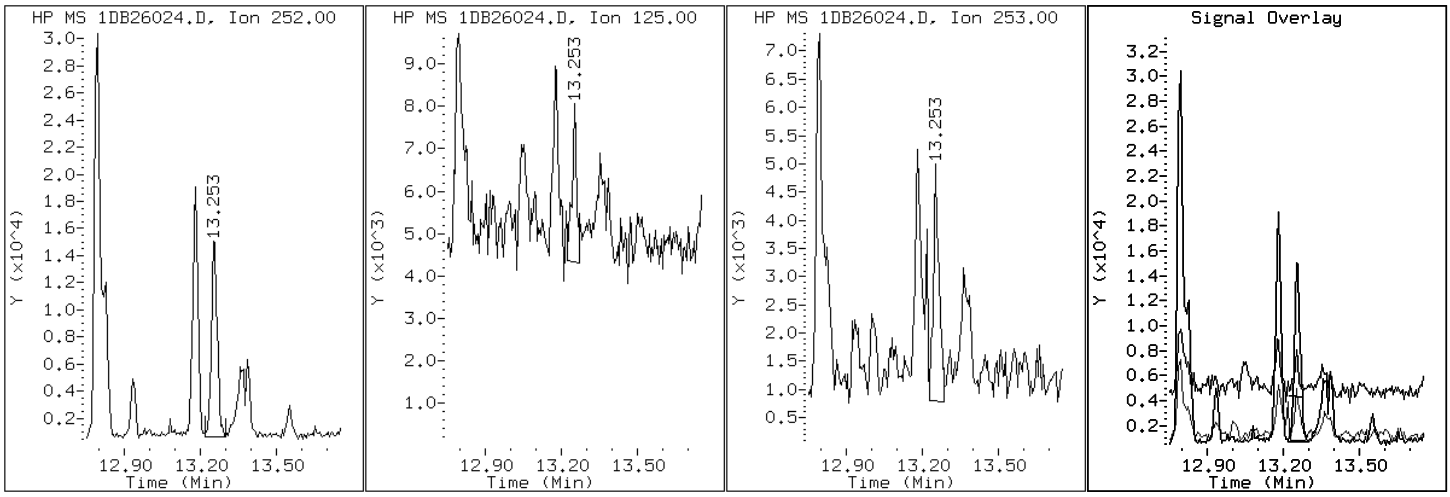
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

21 Benzo(a)pyrene



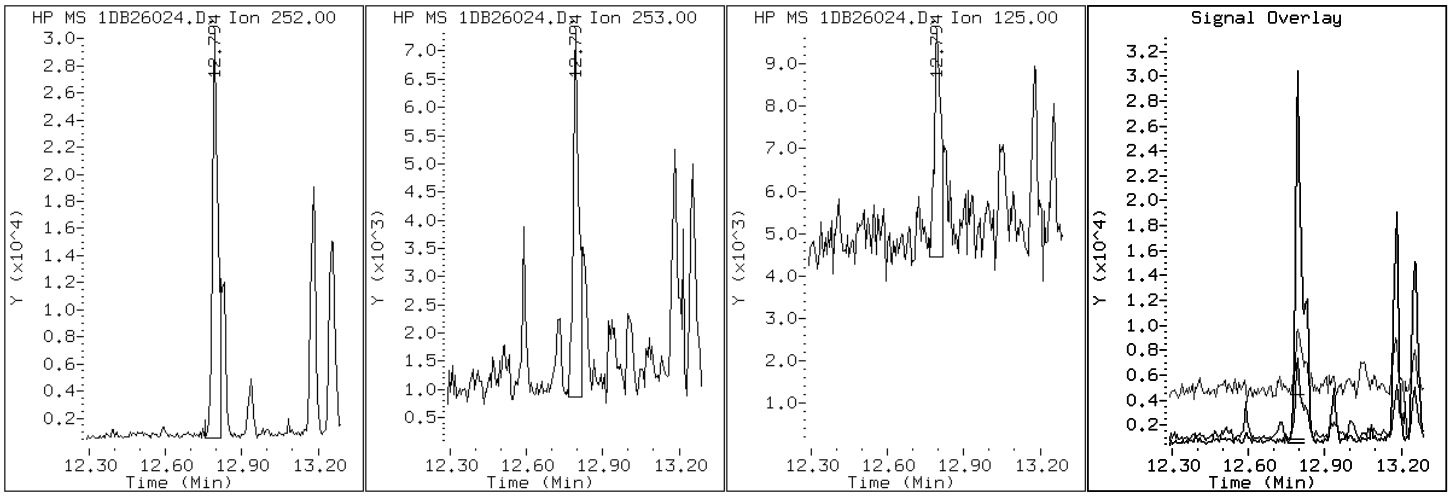
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

19 Benzo(b)fluoranthene



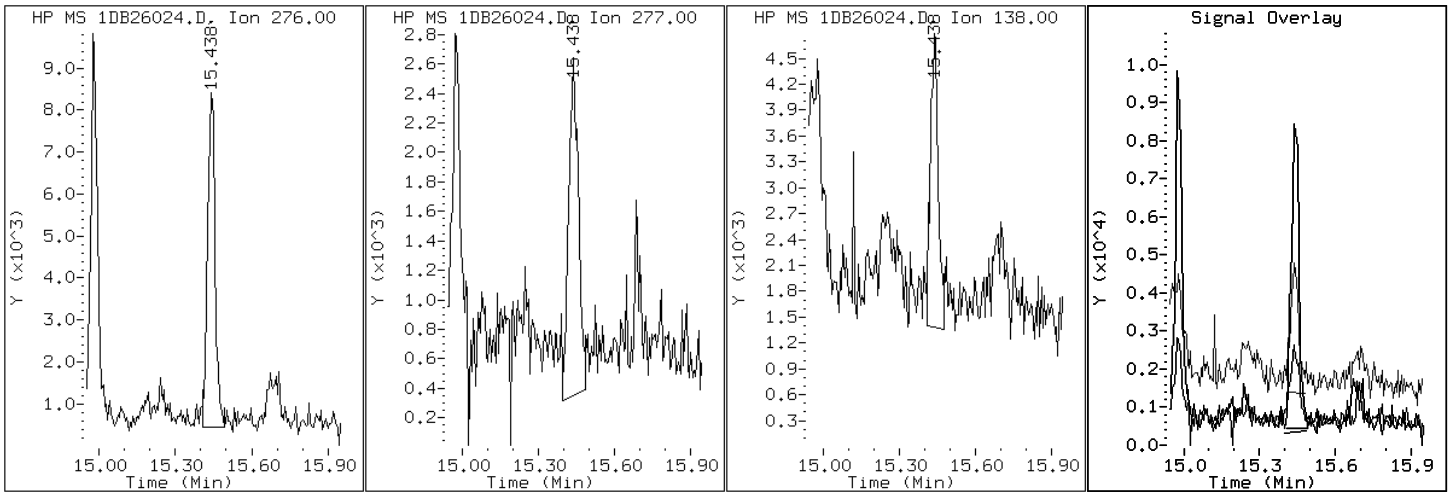
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

25 Benzo(g,h,i)perylene



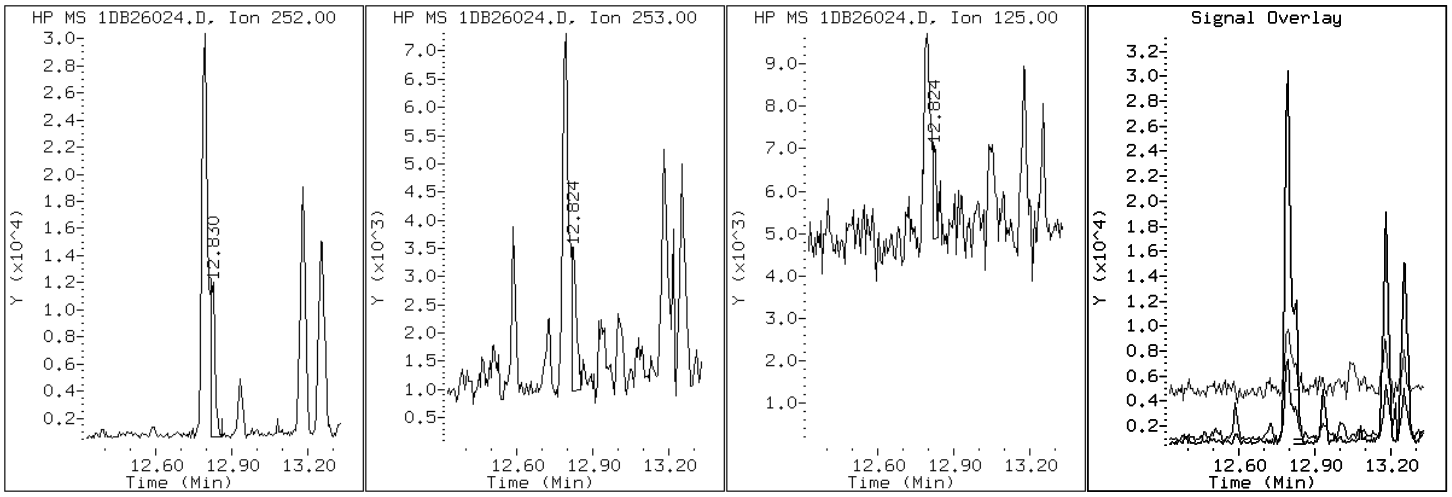
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

20 Benzo(k)fluoranthene



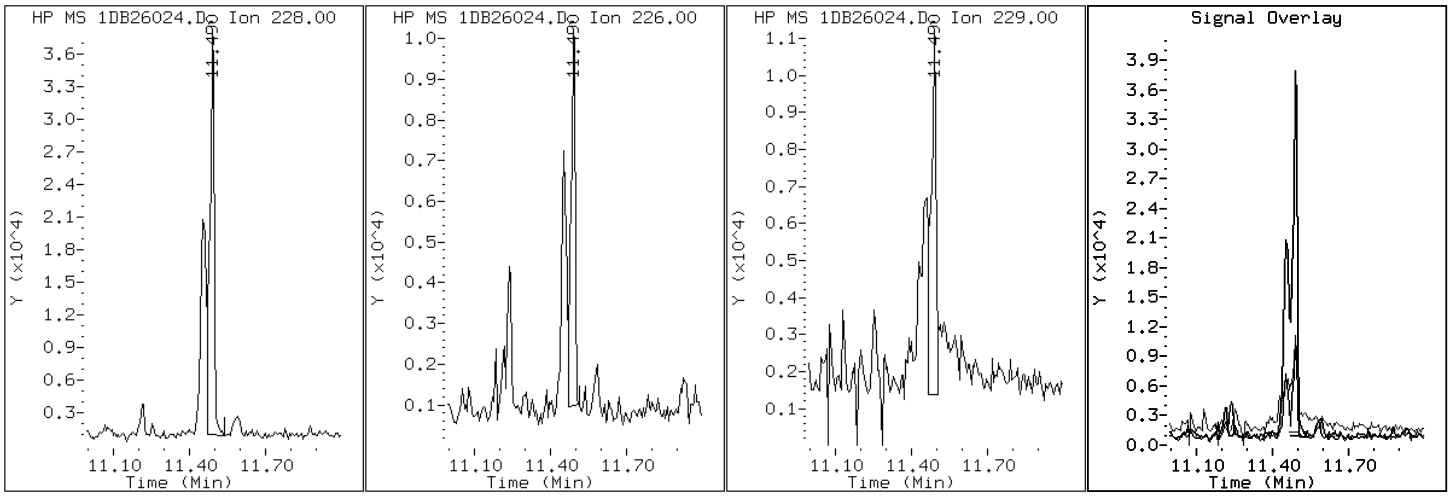
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

18 Chrysene



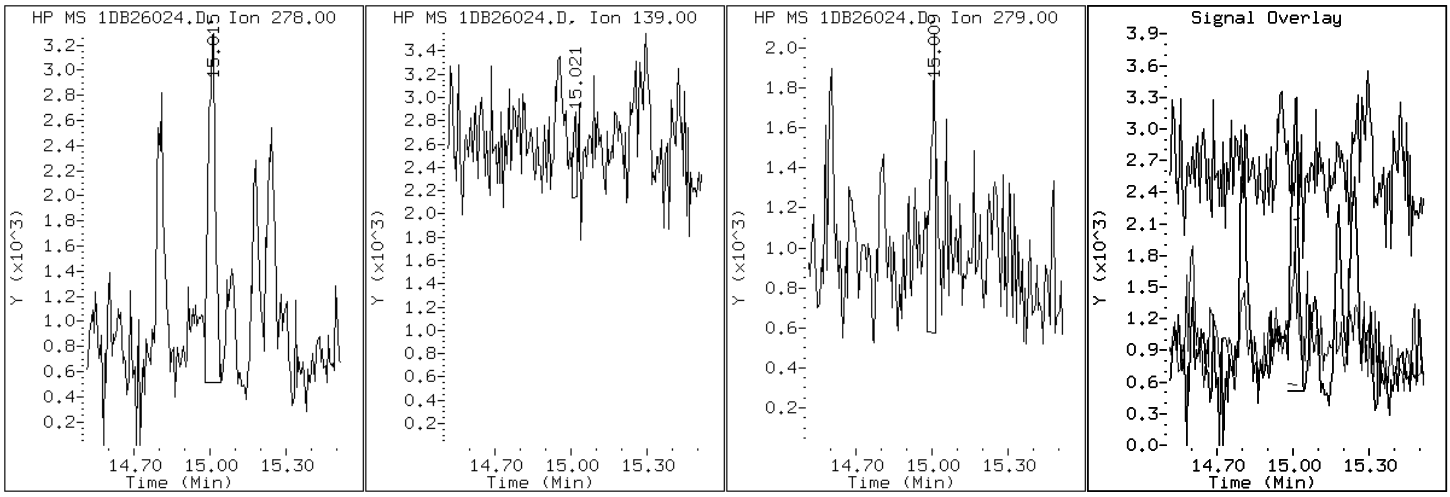
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

24 Dibenzo(a,h)anthracene



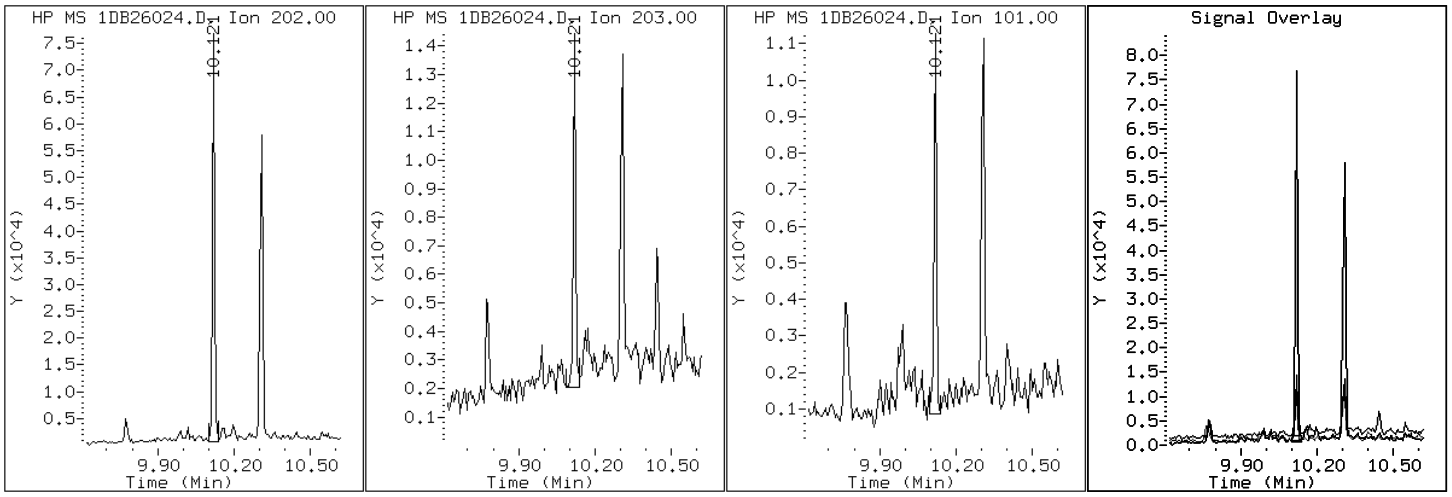
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

14 Fluoranthene



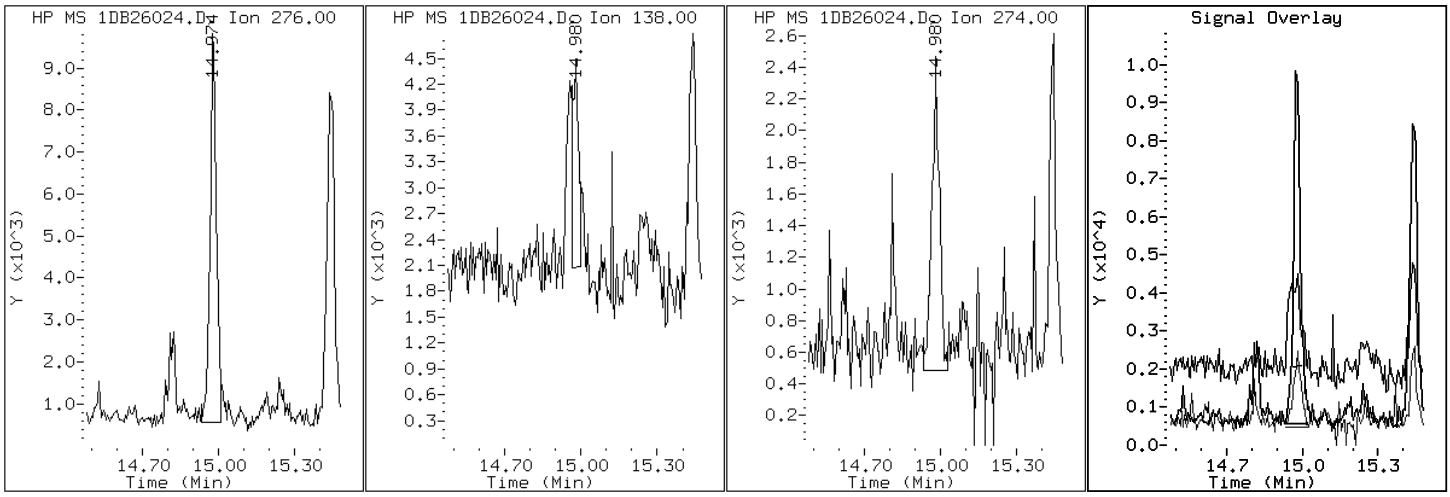
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

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



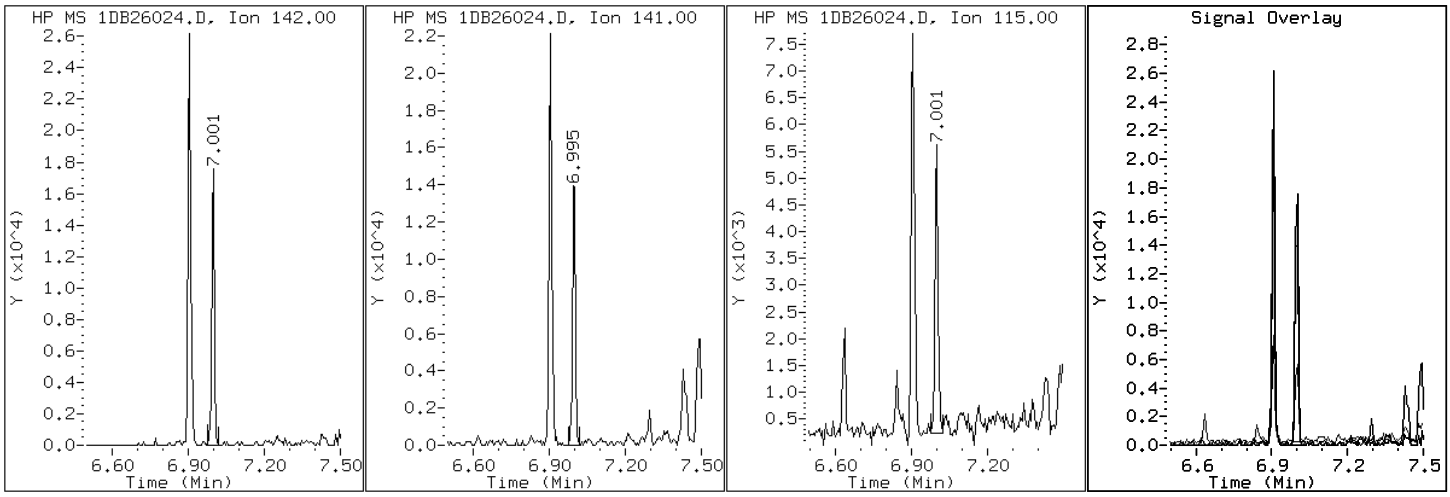
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

4 1-Methylnaphthalene



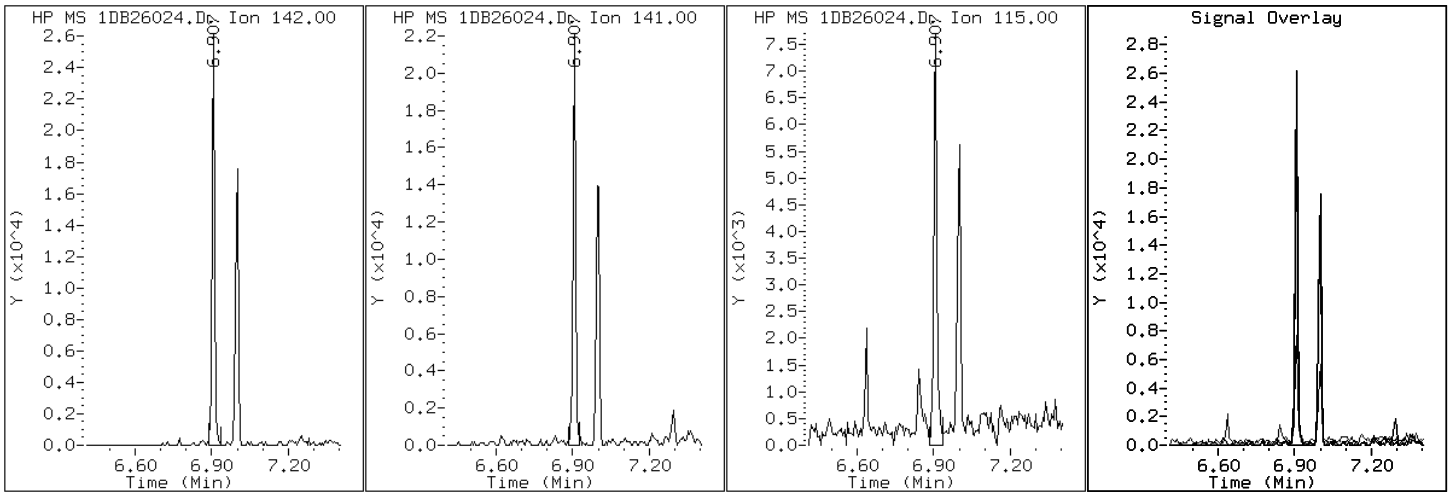
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

3 2-Methylnaphthalene



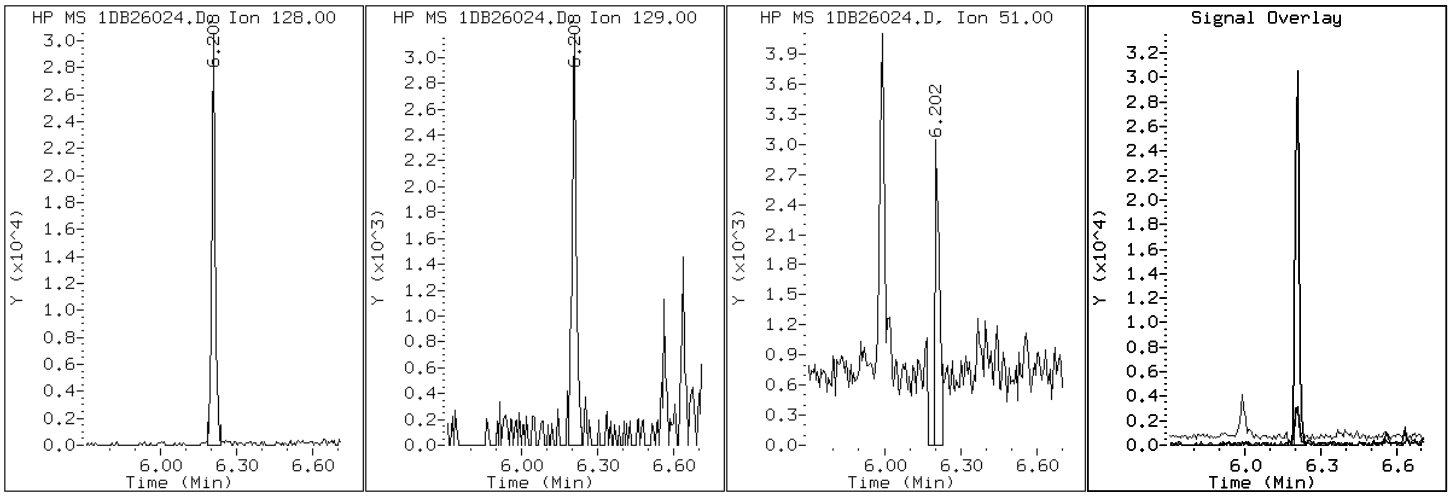
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

2 Naphthalene



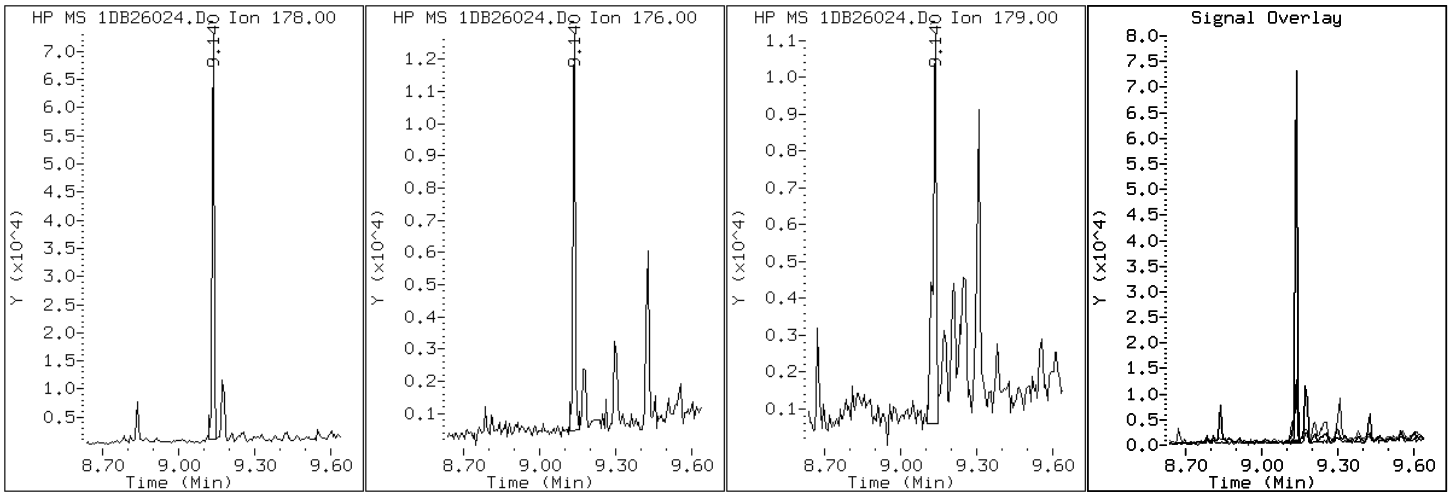
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

10 Phenanthrene



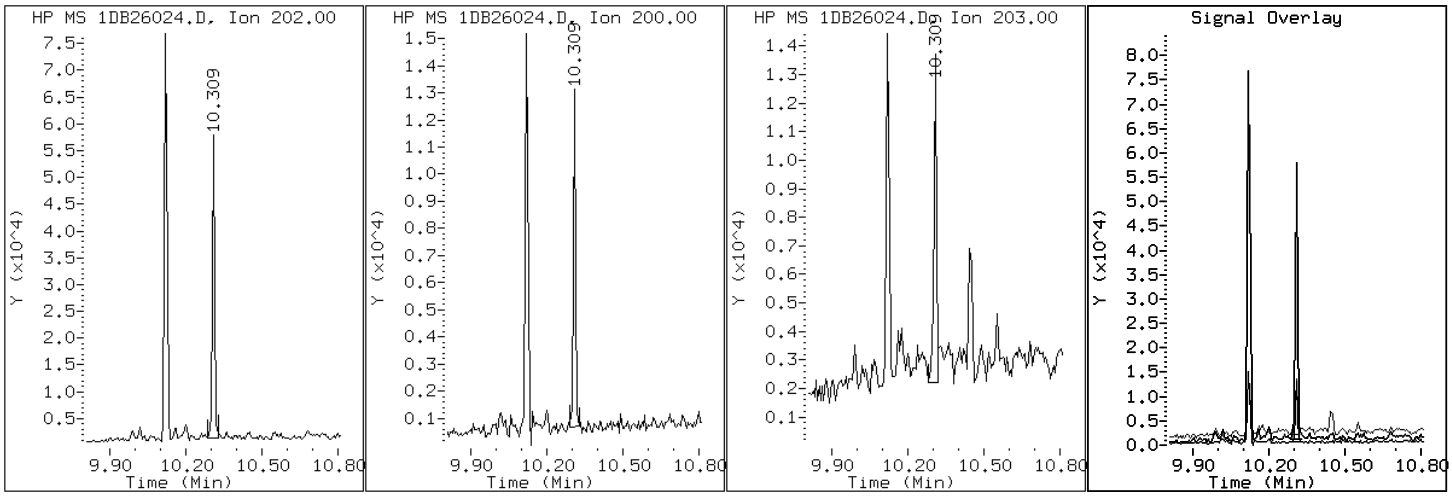
Data File: 1DB26024.D

Date: 26-FEB-2013 22:01

Client ID: FM0161FFF-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-86-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB26024.D
Inj. Date and Time: 26-FEB-2013 22:01
Instrument ID: BSMSD.i
Client ID: FM0161FFF-CS
Compound: 18 Chrysene
CAS #: 218-01-9
Report Date: 02/28/2013

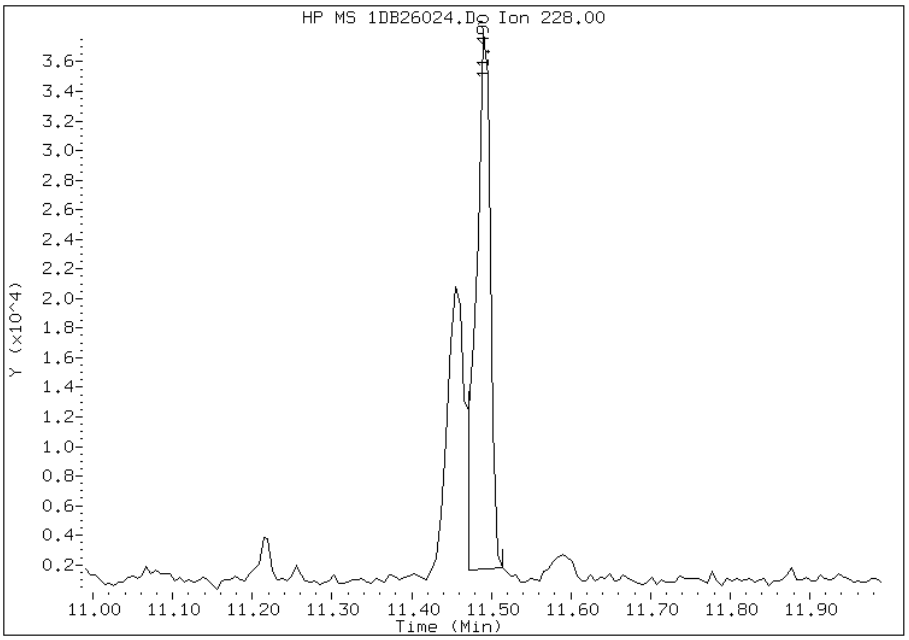
Processing Integration Results

RT: 11.49

Response: 45335

Amount: 1

Conc: 150



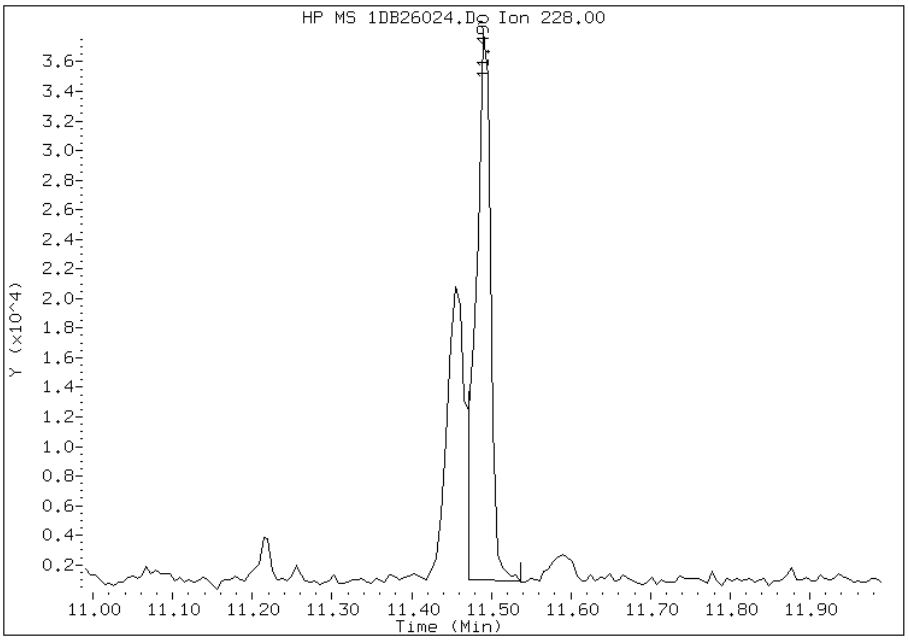
Manual Integration Results

RT: 11.49

Response: 48066

Amount: 1

Conc: 159



Manually Integrated By: cantins
Modification Date: 28-Feb-2013 10:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB26024.D
Inj. Date and Time: 26-FEB-2013 22:01
Instrument ID: BSMSD.i
Client ID: FM0161FFF-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/28/2013

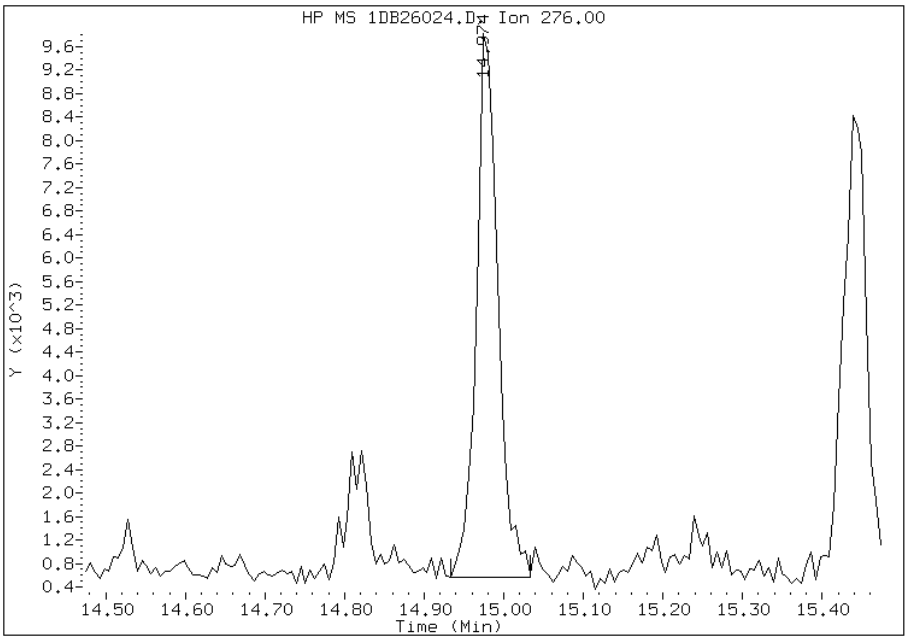
Processing Integration Results

RT: 14.97

Response: 17483

Amount: 0

Conc: 62



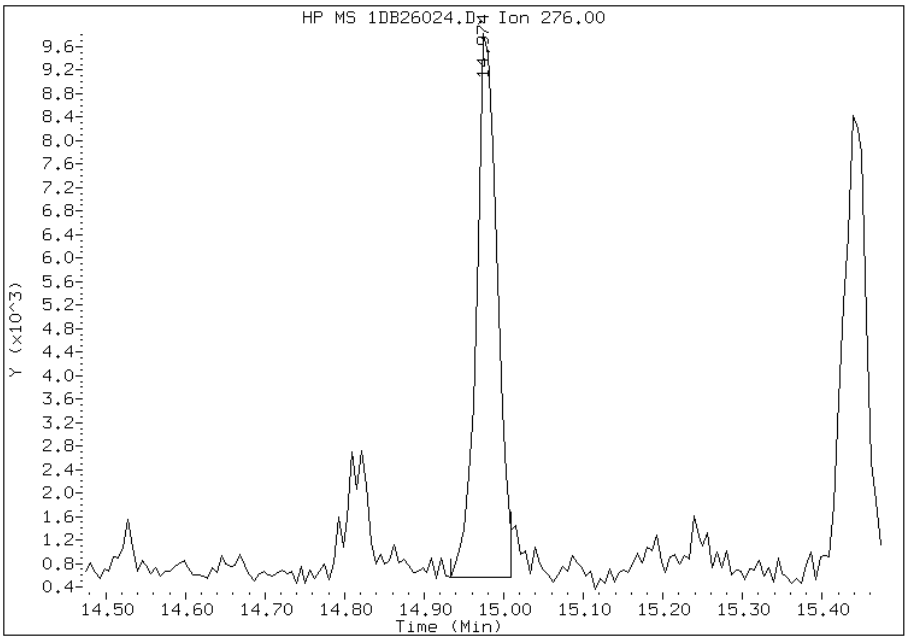
Manual Integration Results

RT: 14.97

Response: 16861

Amount: 0

Conc: 60



Manually Integrated By: cantins
Modification Date: 28-Feb-2013 10:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-5

SDG No.: 68087545-5

Client Sample ID: FM0161GGG-CS | Lab Sample ID: 680-87545-87

Matrix: Solid | Lab File ID: 1DB26025.D

Analysis Method: 8270C LL | Date Collected: 02/15/2013 09:14

Extract. Method: 3546 | Date Extracted: 02/25/2013 06:16

Sample wt/vol: 15.17(g) | Date Analyzed: 02/26/2013 22:24

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

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

% Moisture: 3.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134863 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	13	J	41	5.1
120-12-7	Anthracene	23		8.6	4.3
56-55-3	Benzo[a]anthracene	87		8.2	4.0
50-32-8	Benzo[a]pyrene	80		11	5.3
205-99-2	Benzo[b]fluoranthene	160		12	6.2
191-24-2	Benzo[g,h,i]perylene	47		20	4.5
207-08-9	Benzo[k]fluoranthene	48		8.2	3.7
218-01-9	Chrysene	120		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	18	J	20	4.2
206-44-0	Fluoranthene	150		20	4.1
86-73-7	Fluorene	9.0	J	20	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	45		20	7.3
90-12-0	1-Methylnaphthalene	60		41	4.5
91-57-6	2-Methylnaphthalene	78		41	7.3
91-20-3	Naphthalene	85		41	4.5
85-01-8	Phenanthrene	120	B	8.2	4.0
129-00-0	Pyrene	110		20	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	102		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26025.D
Lab Smp Id: 680-87545-A-87-A Client Smp ID: FM0161GGG-CS
Inj Date : 26-FEB-2013 22:24
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-87-A
Misc Info : 680-87545-A-87-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\dFASTPAHi.m
Meth Date : 26-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	3.409	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.186	6.184	(1.000)	3279925	40.0000	
* 6 Acenaphthene-d10	164	7.861	7.859	(1.000)	1981362	40.0000	
* 9 Phenanthrene-d10	188	9.124	9.116	(1.000)	3198218	40.0000	
$ 13 o-Terphenyl	230	9.430	9.427	(1.033)	502790	10.1661	690
* 17 Chrysene-d12	240	11.474	11.466	(1.000)	3210226	40.0000	
* 22 Perylene-d12	264	13.366	13.352	(1.000)	3071994	40.0000	
2 Naphthalene	128	6.204	6.208	(1.003)	108901	1.24118	85
3 2-Methylnaphthalene	142	6.903	6.907	(1.116)	63667	1.13912	78
4 1-Methylnaphthalene	142	6.997	7.001	(1.131)	46172	0.88218	60
5 Acenaphthylene	152	7.732	7.729	(0.984)	16295	0.18654	13
8 Fluorene	166	8.325	8.329	(1.059)	8175	0.13137	9.0
10 Phenanthrene	178	9.136	9.139	(1.001)	165531	1.82329	120
11 Anthracene	178	9.177	9.181	(1.006)	30890	0.34007	23
12 Carbazole	167	9.318	9.316	(1.021)	19196	0.23640	16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.123	10.121	(1.109)	201301	2.12471	140
15 Pyrene	202	10.311	10.309	(0.899)	158245	1.58915	110
16 Benzo(a)anthracene	228	11.457	11.448	(0.998)	112065	1.27508	87
18 Chrysene	228	11.498	11.495	(1.002)	165645	1.82557	120
19 Benzo(b)fluoranthene	252	12.796	12.788	(0.957)	182937	2.31353	160
20 Benzo(k)fluoranthene	252	12.826	12.829	(0.960)	58275	0.70388	48
21 Benzo(a)pyrene	252	13.255	13.252	(0.992)	92083	1.17680	80
23 Indeno(1,2,3-cd)pyrene	276	14.988	14.980	(1.121)	54664	0.65461	45(M)
24 Dibenzo(a,h)anthracene	278	15.011	15.015	(1.123)	20075	0.26031	18
25 Benzo(g,h,i)perylene	276	15.452	15.450	(1.156)	55397	0.69579	47

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DB26025.D

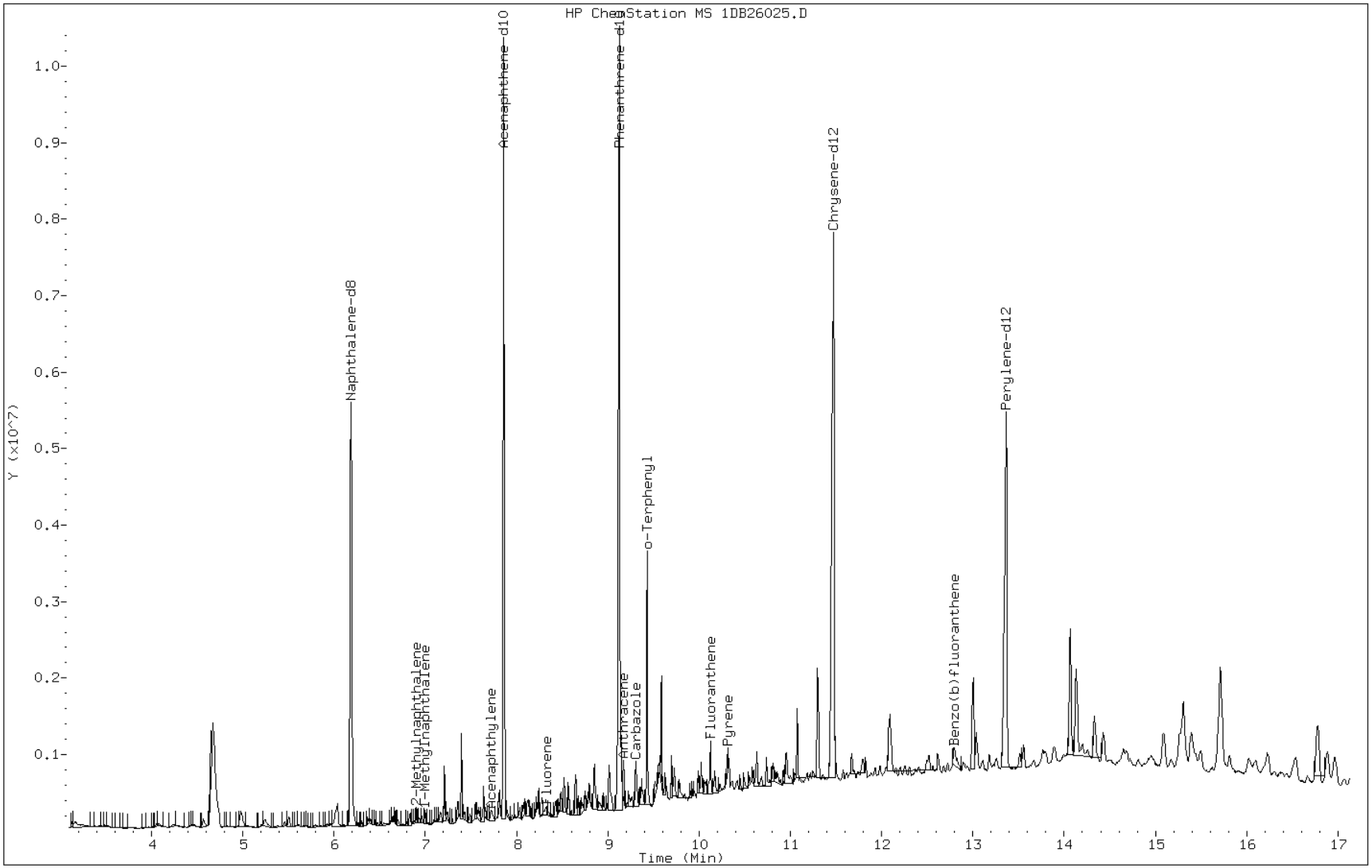
Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A

Operator: SCC



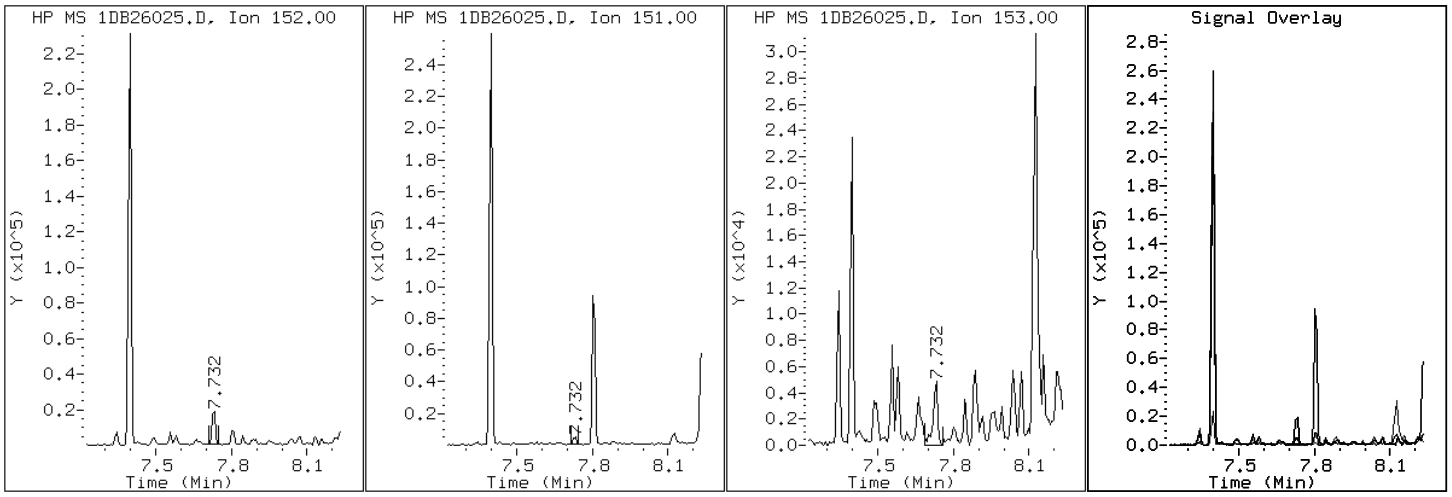
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

5 Acenaphthylene



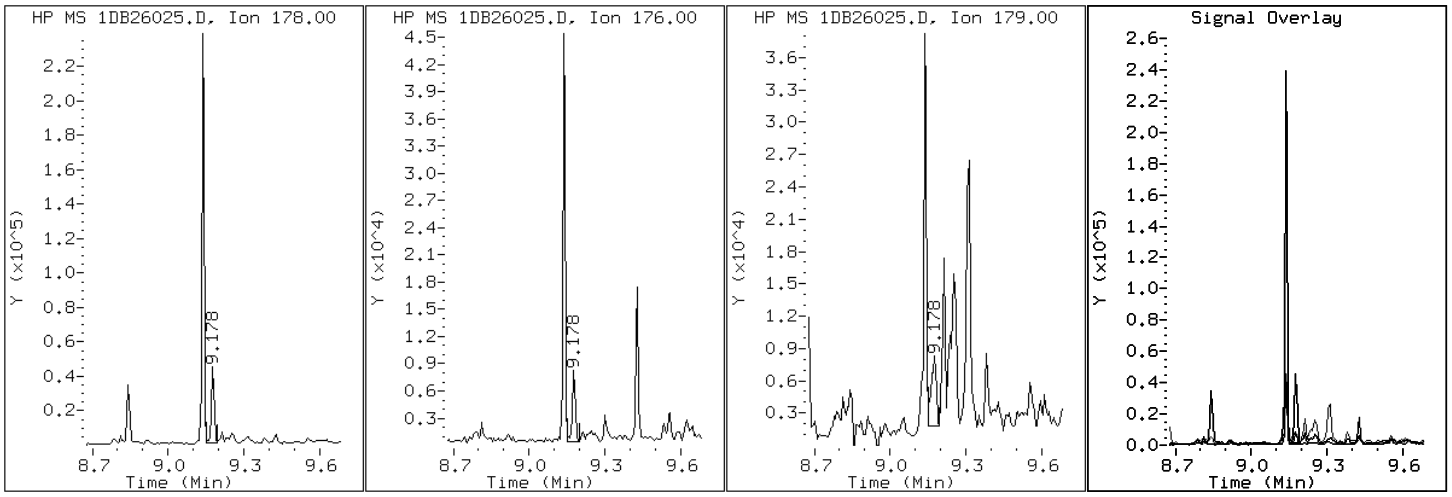
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

11 Anthracene



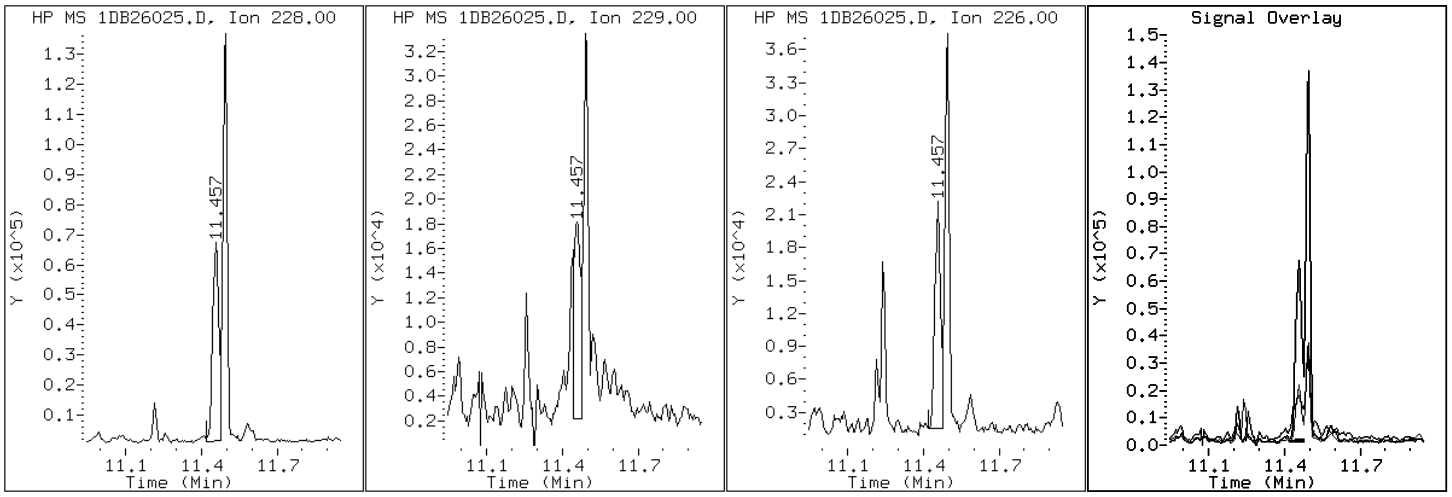
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

16 Benzo(a)anthracene



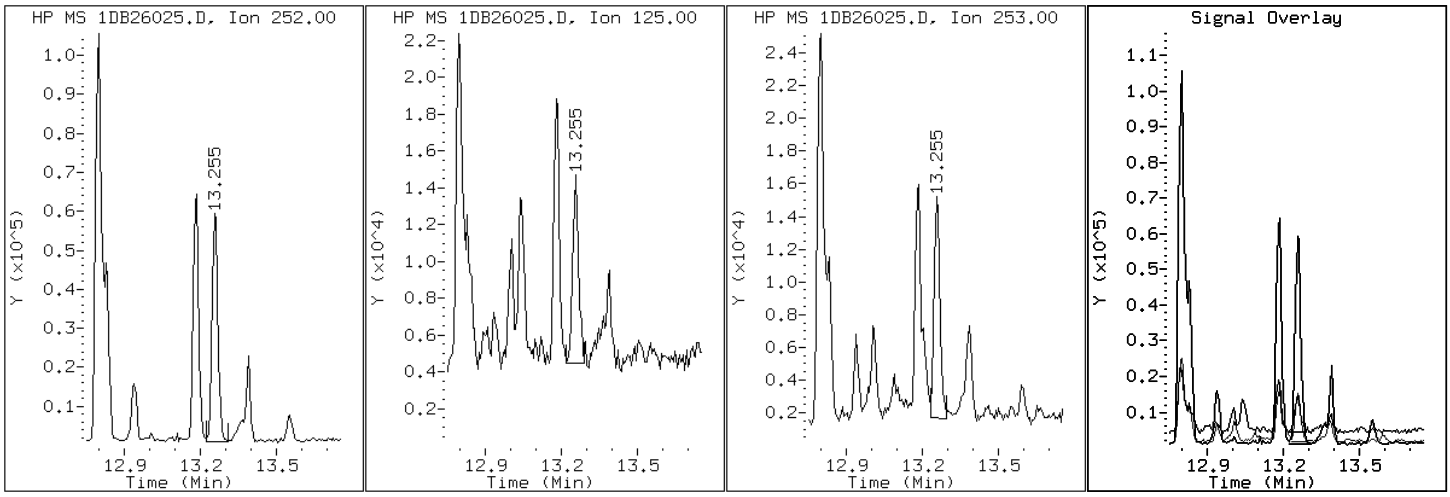
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

21 Benzo(a)pyrene



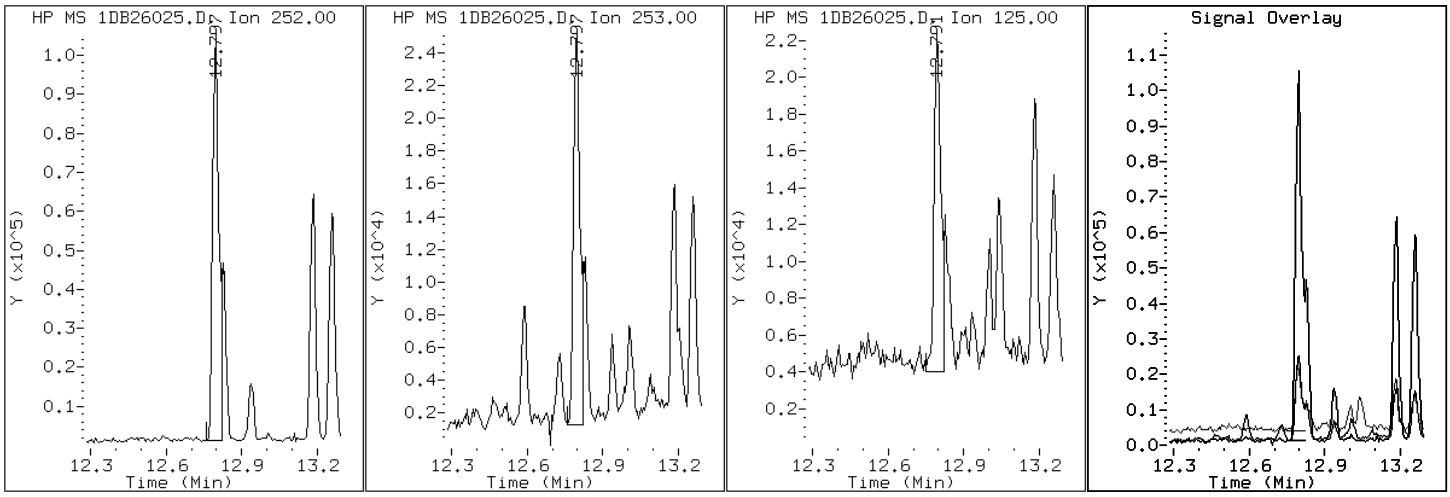
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

19 Benzo(b)fluoranthene



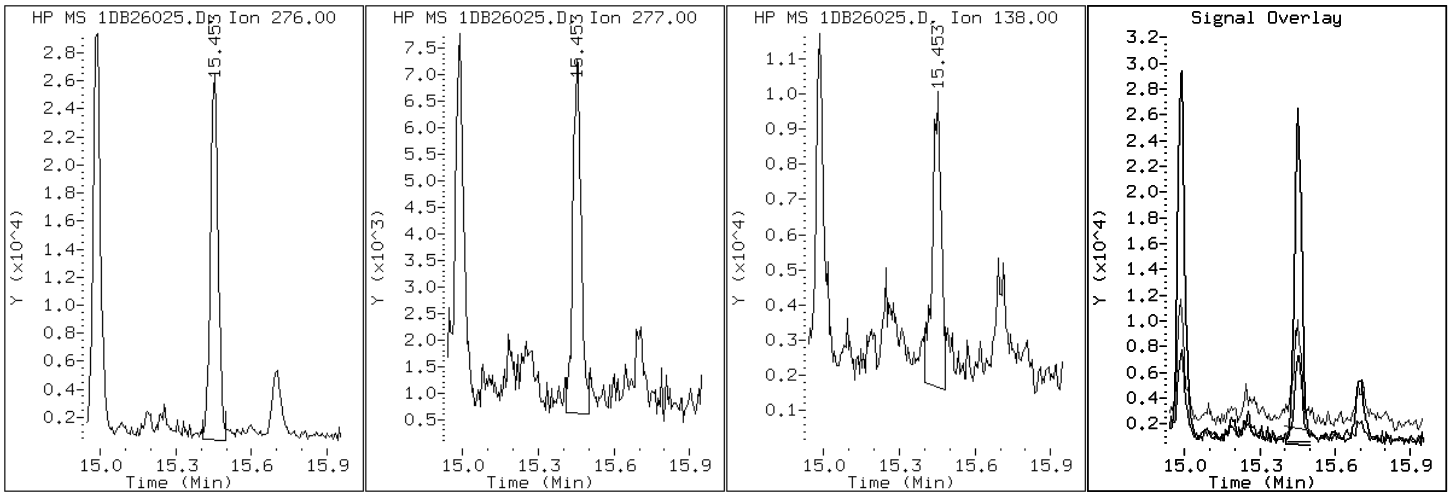
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

25 Benzo(g,h,i)perylene



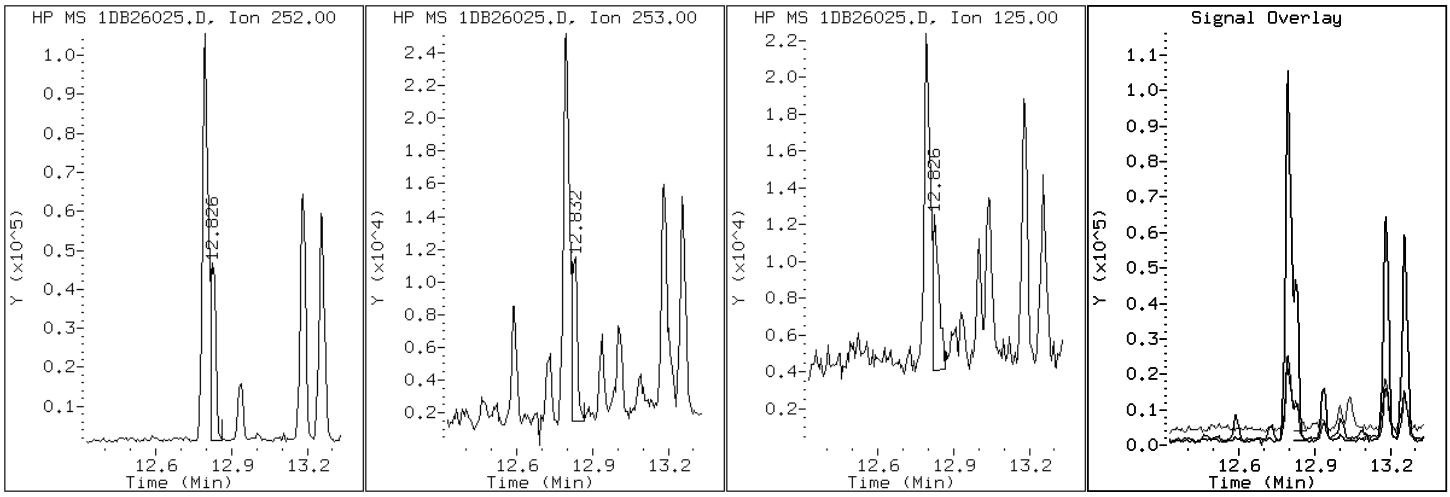
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

20 Benzo(k)fluoranthene



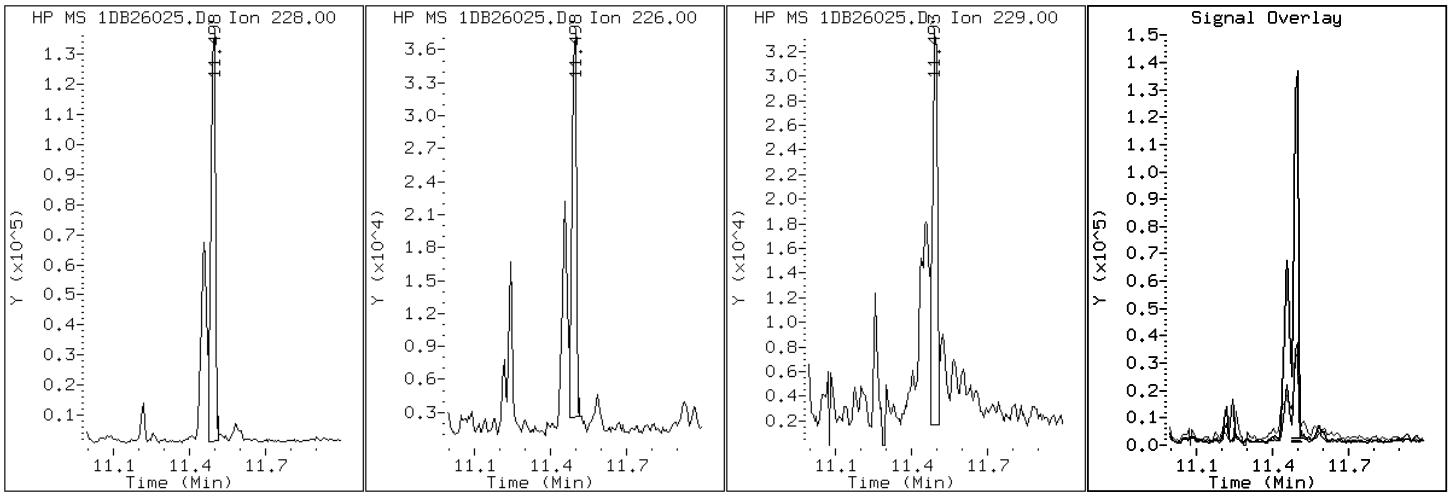
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

18 Chrysene



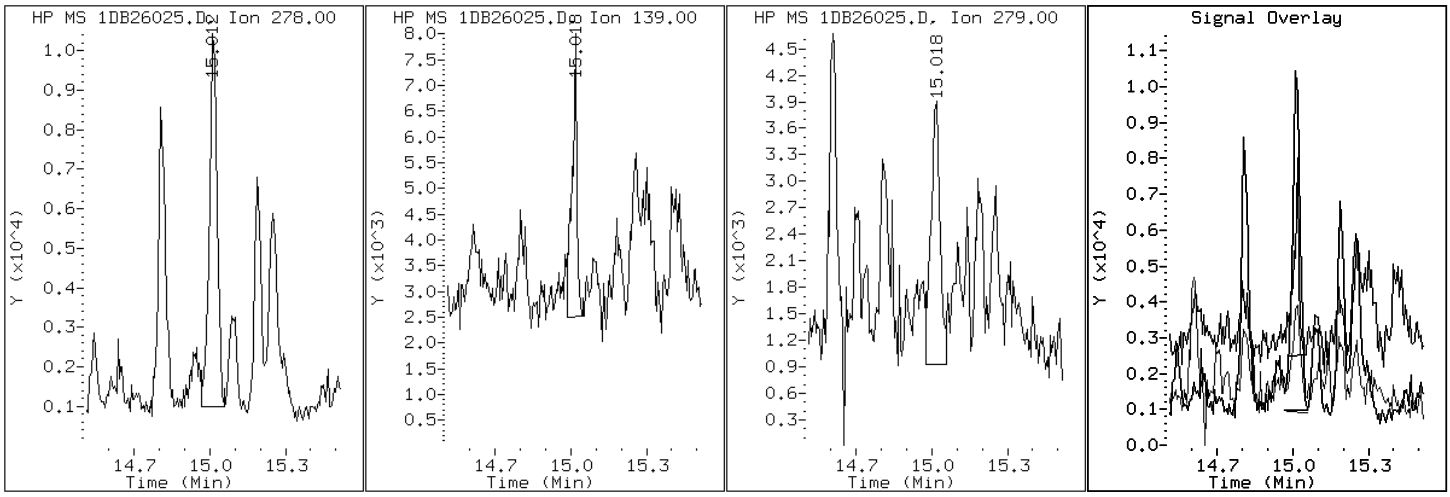
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

24 Dibenzo(a,h)anthracene



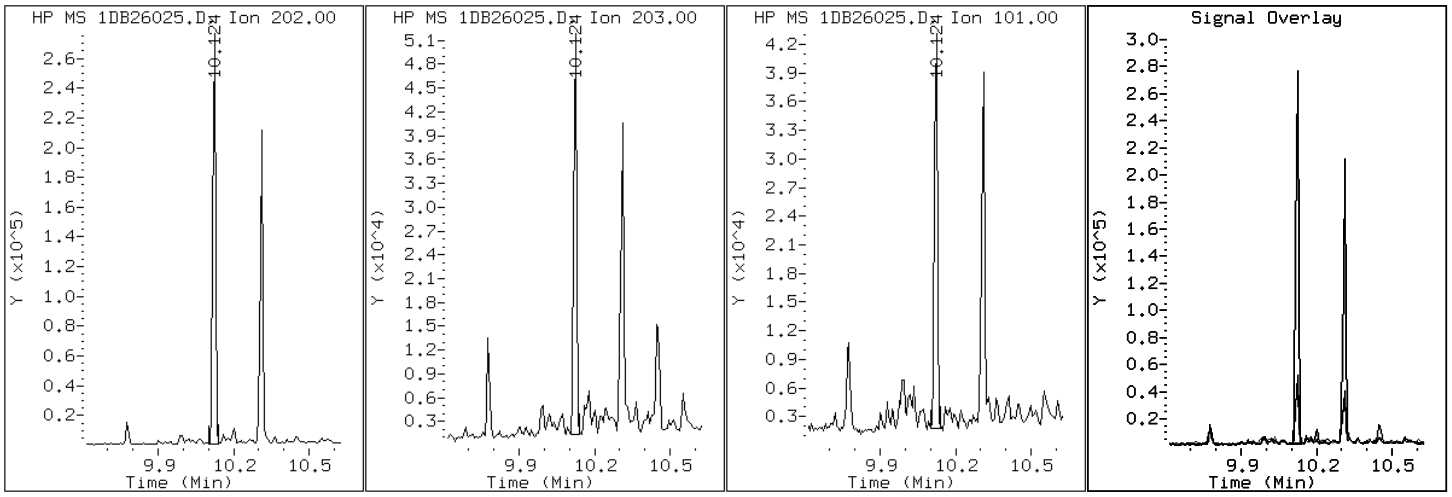
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

14 Fluoranthene



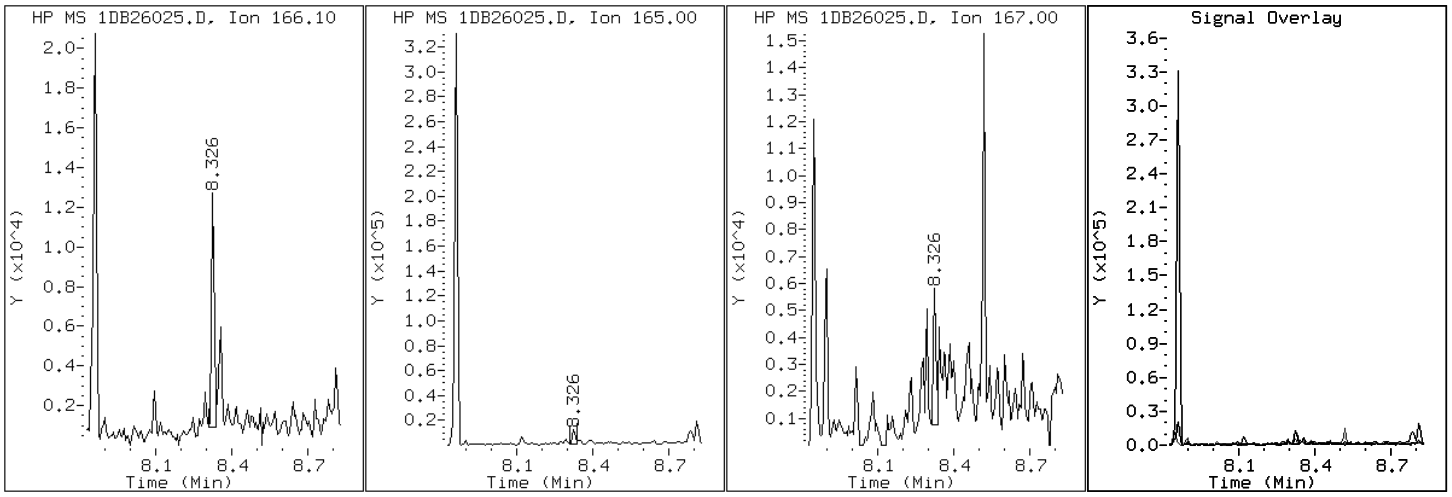
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

8 Fluorene



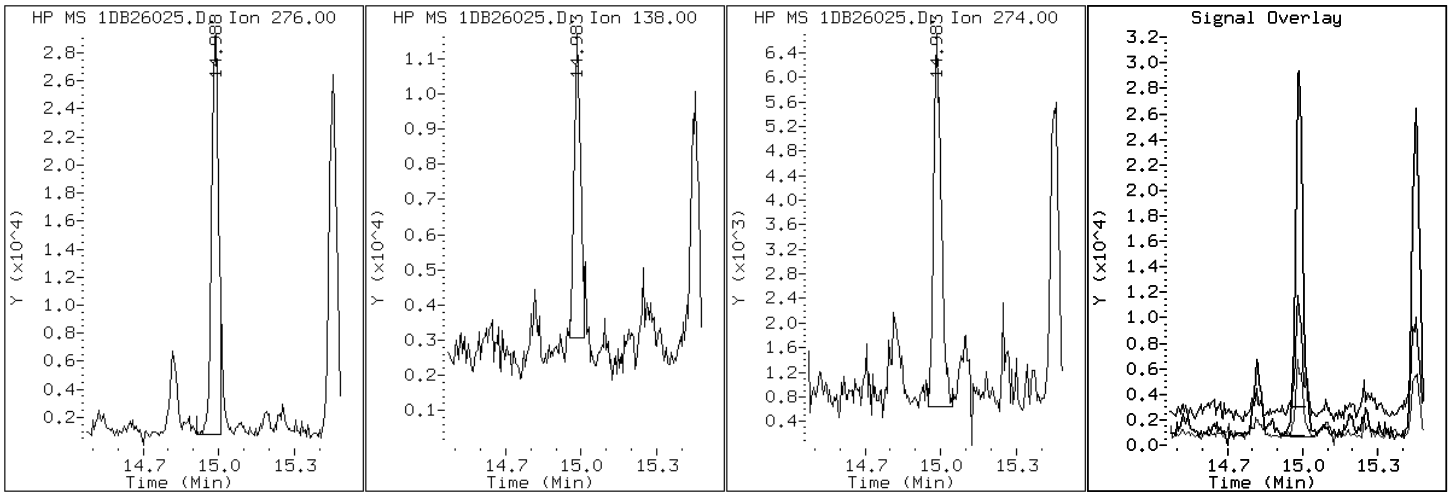
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

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



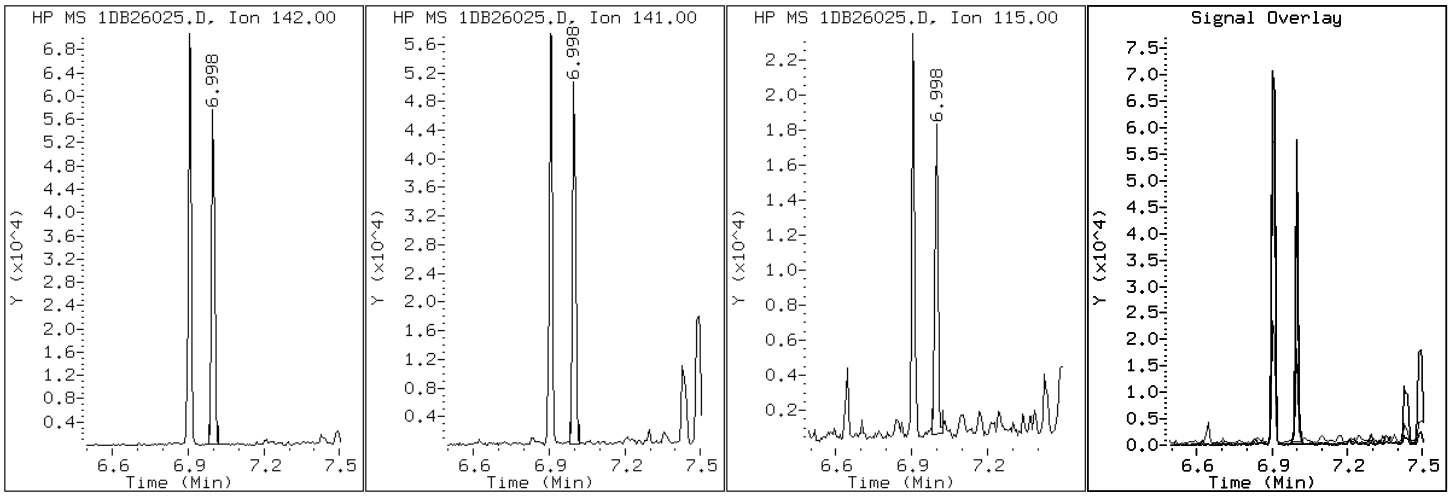
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

4 1-Methylnaphthalene



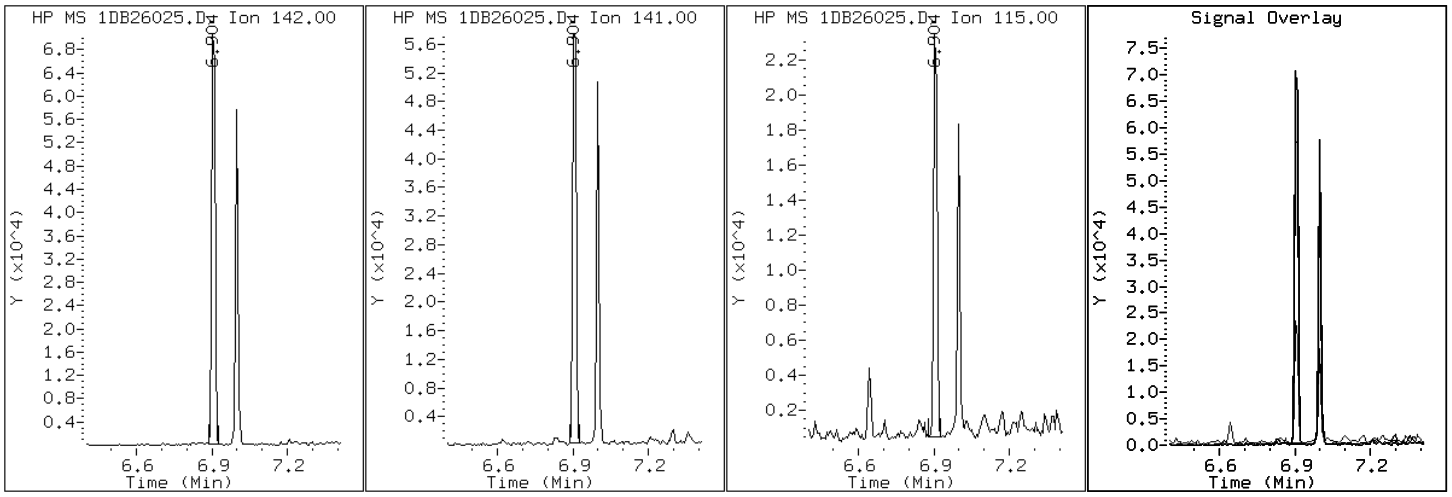
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

3 2-Methylnaphthalene



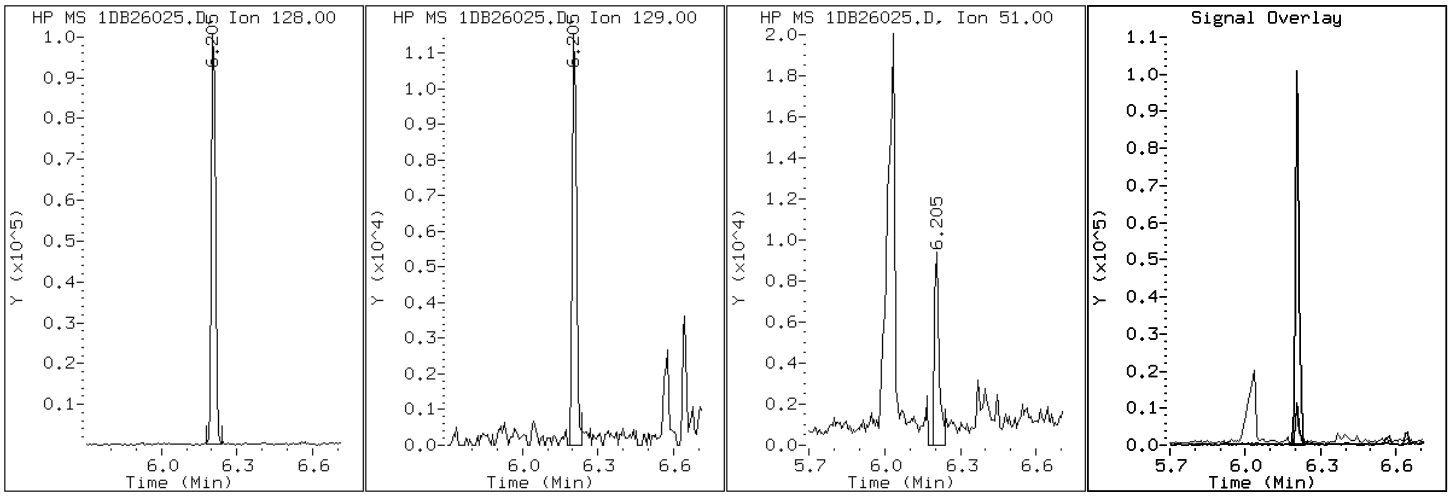
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

2 Naphthalene



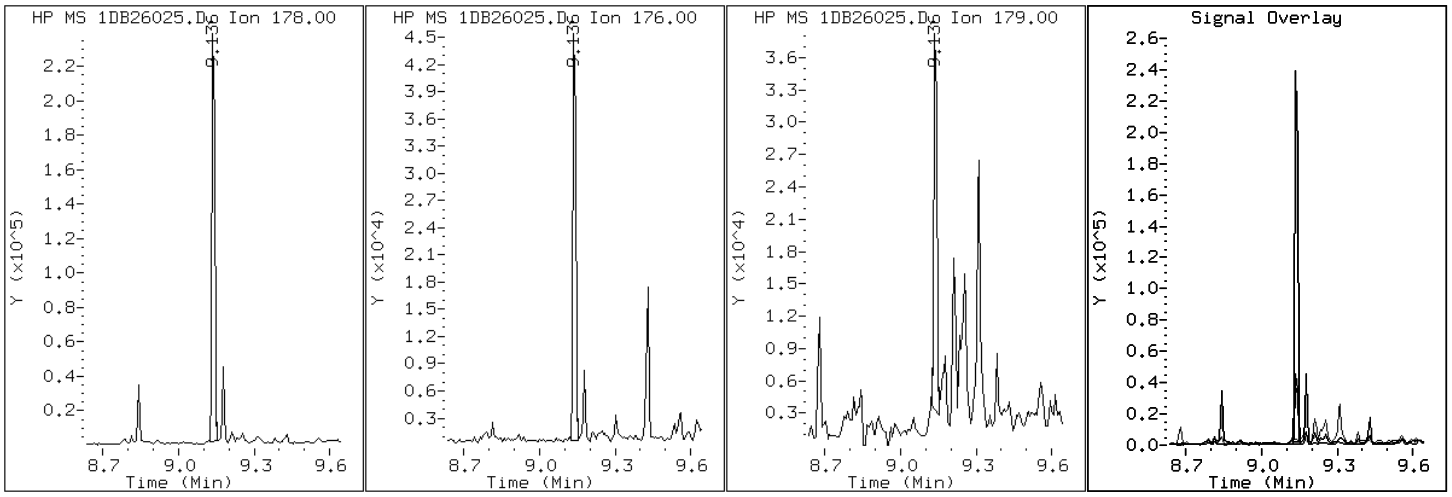
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

10 Phenanthrene



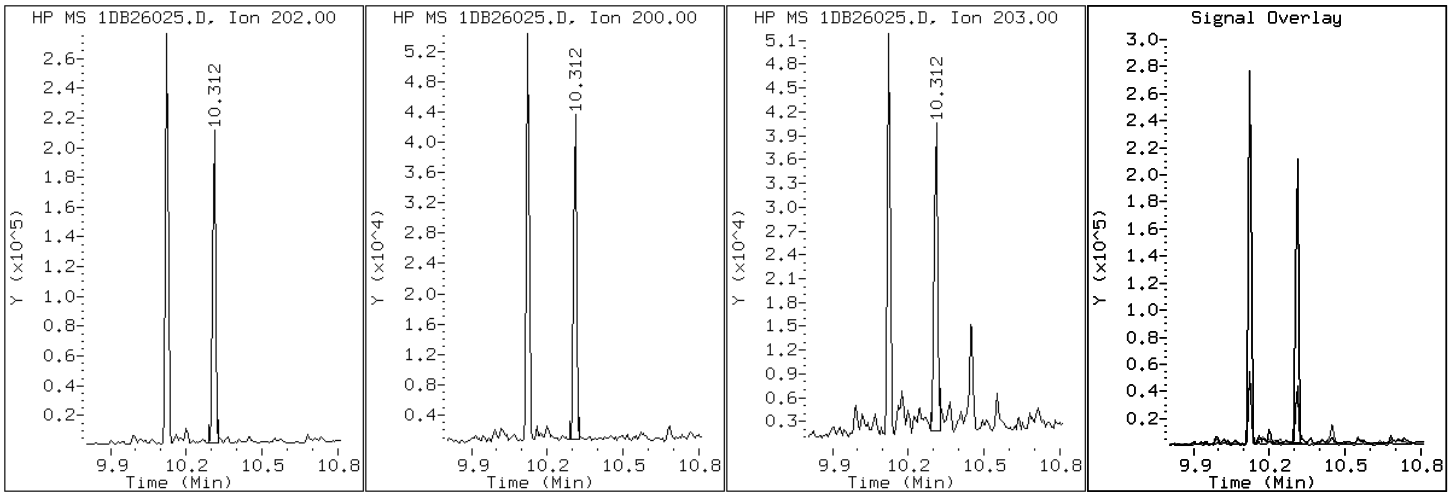
Data File: 1DB26025.D

Date: 26-FEB-2013 22:24

Client ID: FM0161GGG-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-87-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB26025.D
Inj. Date and Time: 26-FEB-2013 22:24
Instrument ID: BSMSD.i
Client ID: FM0161GGG-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/28/2013

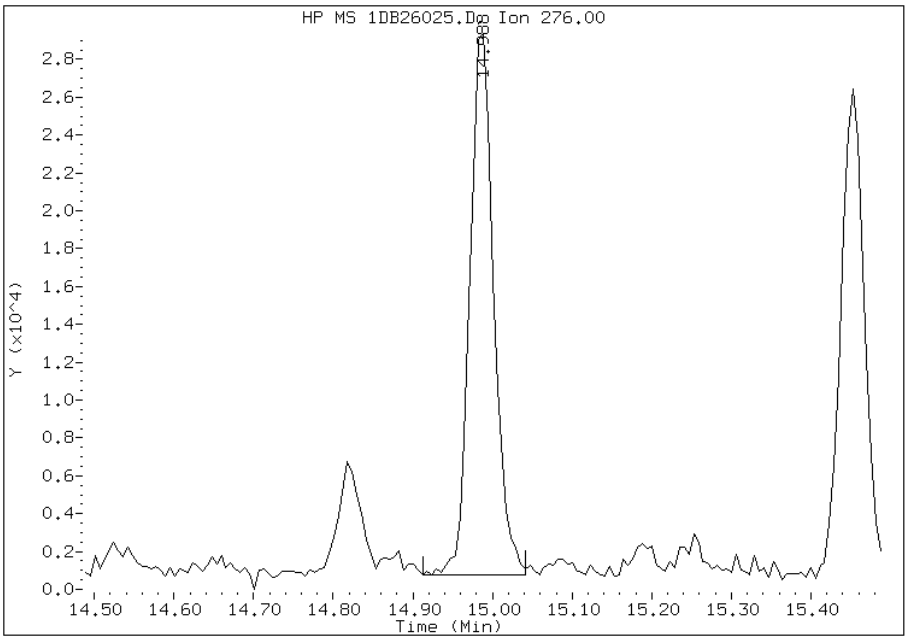
Processing Integration Results

RT: 14.99

Response: 59486

Amount: 1

Conc: 49



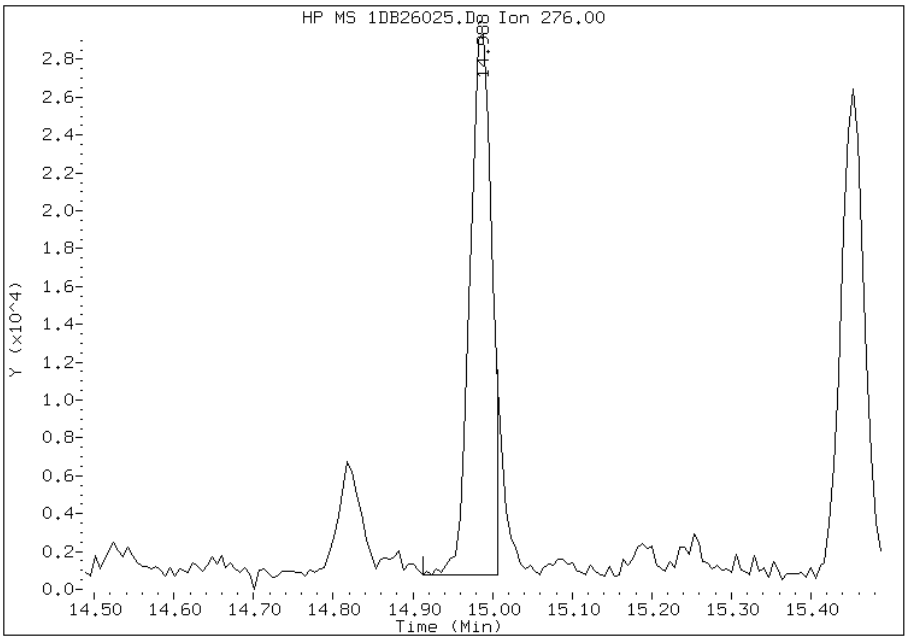
Manual Integration Results

RT: 14.99

Response: 54664

Amount: 1

Conc: 45



Manually Integrated By: cantins
Modification Date: 28-Feb-2013 10:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-5

SDG No.: 68087545-5

Client Sample ID: FM0161GGG-CSD | Lab Sample ID: 680-87545-88

Matrix: Solid | Lab File ID: 1DB26026.D

Analysis Method: 8270C LL | Date Collected: 02/15/2013 09:17

Extract. Method: 3546 | Date Extracted: 02/25/2013 06:16

Sample wt/vol: 15.17(g) | Date Analyzed: 02/26/2013 22:46

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

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

% Moisture: 29.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134863 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	20	J	56	7.0
120-12-7	Anthracene	34		12	5.9
56-55-3	Benzo[a]anthracene	120		11	5.4
50-32-8	Benzo[a]pyrene	110		15	7.3
205-99-2	Benzo[b]fluoranthene	220		17	8.5
191-24-2	Benzo[g,h,i]perylene	66		28	6.1
207-08-9	Benzo[k]fluoranthene	75		11	5.0
218-01-9	Chrysene	180		13	6.3
53-70-3	Dibenz(a,h)anthracene	26	J	28	5.7
206-44-0	Fluoranthene	210		28	5.6
86-73-7	Fluorene	13	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	62		28	9.9
90-12-0	1-Methylnaphthalene	90		56	6.1
91-57-6	2-Methylnaphthalene	120		56	9.9
91-20-3	Naphthalene	130		56	6.1
85-01-8	Phenanthrene	180	B	11	5.4
129-00-0	Pyrene	160		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	108		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26026.D
Lab Smp Id: 680-87545-A-88-A Client Smp ID: FM0161GGG-CSD
Inj Date : 26-FEB-2013 22:46
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-88-A
Misc Info : 680-87545-A-88-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\dFASTPAHi.m
Meth Date : 26-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	29.216	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	3179271	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.859	(1.000)	1933535	40.0000	
* 9 Phenanthrene-d10	188	9.122	9.116	(1.000)	3145245	40.0000	
$ 13 o-Terphenyl	230	9.427	9.427	(1.033)	527213	10.8395	1000
* 17 Chrysene-d12	240	11.472	11.466	(1.000)	3079858	40.0000	
* 22 Perylene-d12	264	13.370	13.352	(1.000)	2921221	40.0000	
2 Naphthalene	128	6.207	6.208	(1.004)	114724	1.34894	120
3 2-Methylnaphthalene	142	6.906	6.907	(1.117)	67104	1.23863	120
4 1-Methylnaphthalene	142	7.001	7.001	(1.132)	48976	0.96538	90
5 Acenaphthylene	152	7.729	7.729	(0.984)	18731	0.21973	20
8 Fluorene	166	8.328	8.329	(1.060)	8753	0.14414	13
10 Phenanthrene	178	9.139	9.139	(1.002)	176278	1.97437	180
11 Anthracene	178	9.174	9.181	(1.006)	32244	0.36095	34
12 Carbazole	167	9.315	9.316	(1.021)	18726	0.23449	22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.120	10.121	(1.109)	205517	2.20574	200
15 Pyrene	202	10.308	10.309	(0.899)	166208	1.73977	160
16 Benzo(a)anthracene	228	11.460	11.448	(0.999)	105324	1.24910	120
18 Chrysene	228	11.495	11.495	(1.002)	168822	1.93934	180
19 Benzo(b)fluoranthene	252	12.794	12.788	(0.957)	177391	2.35918	220
20 Benzo(k)fluoranthene	252	12.829	12.829	(0.960)	63114	0.80167	75
21 Benzo(a)pyrene	252	13.258	13.252	(0.992)	90825	1.22063	110
23 Indeno(1,2,3-cd)pyrene	276	14.991	14.980	(1.121)	52902	0.66621	62(M)
24 Dibenzo(a,h)anthracene	278	15.015	15.015	(1.123)	20265	0.27634	26(Q)
25 Benzo(g,h,i)perylene	276	15.455	15.450	(1.156)	53647	0.70858	66

QC Flag Legend

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

Data File: 1DB26026.D

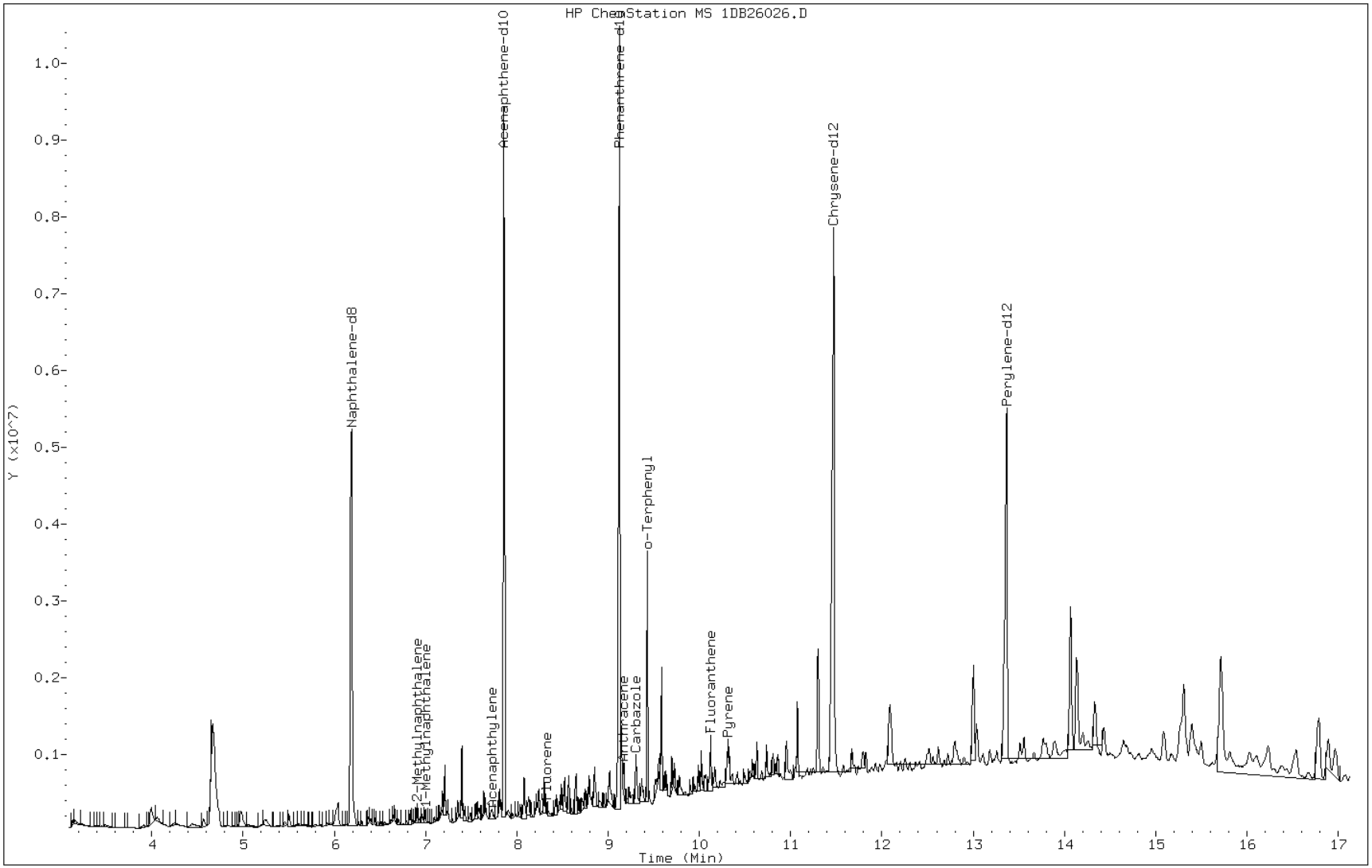
Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD

Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A

Operator: SCC



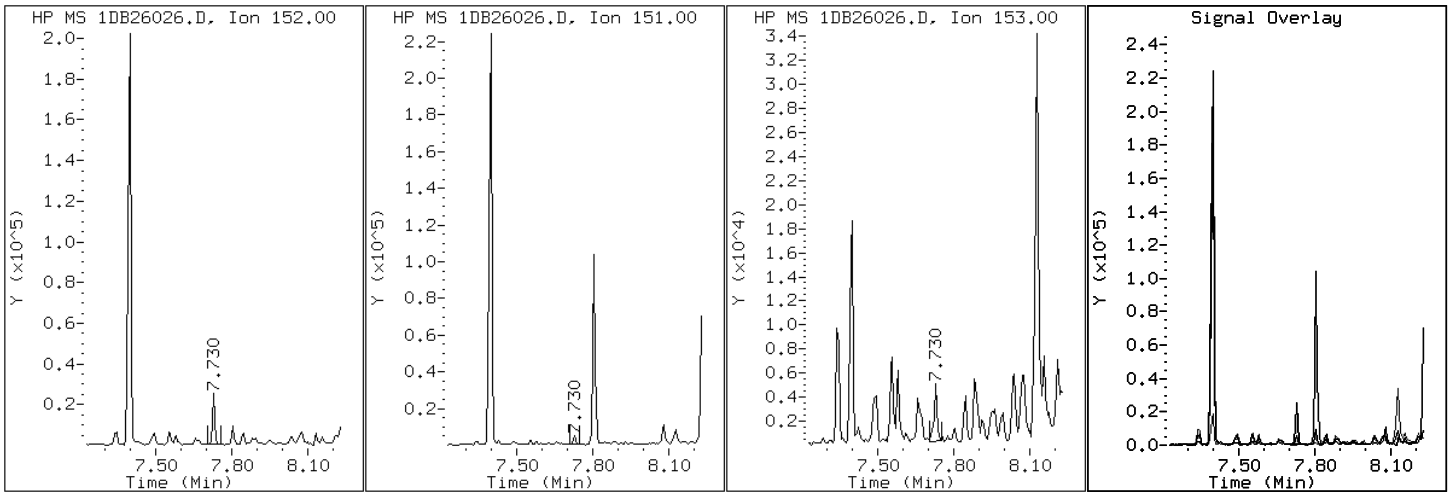
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

5 Acenaphthylene



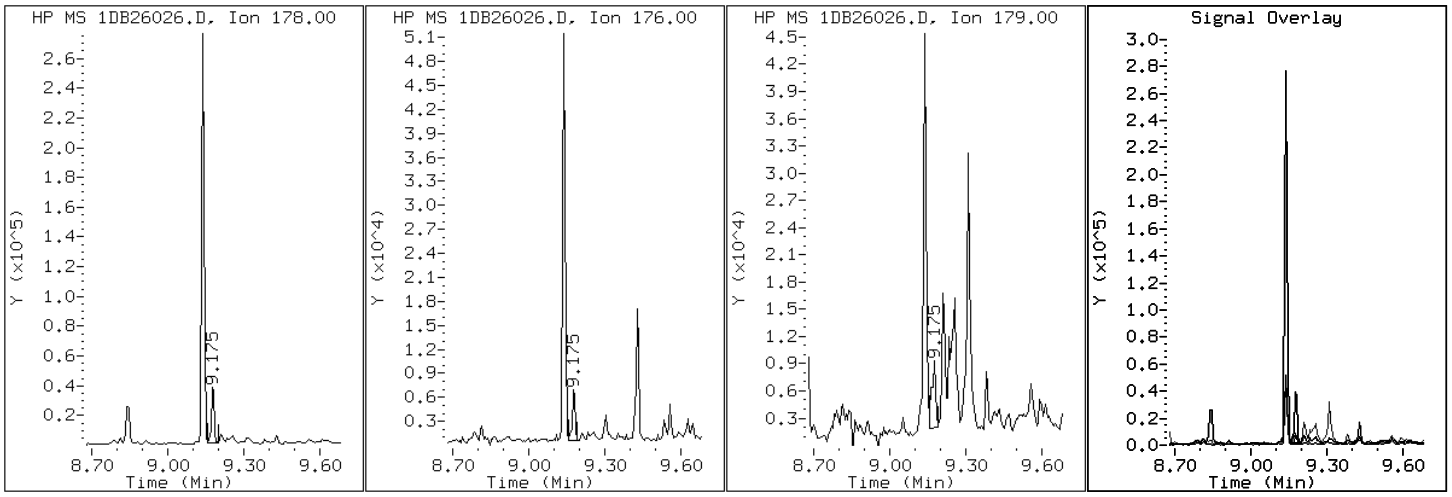
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

11 Anthracene



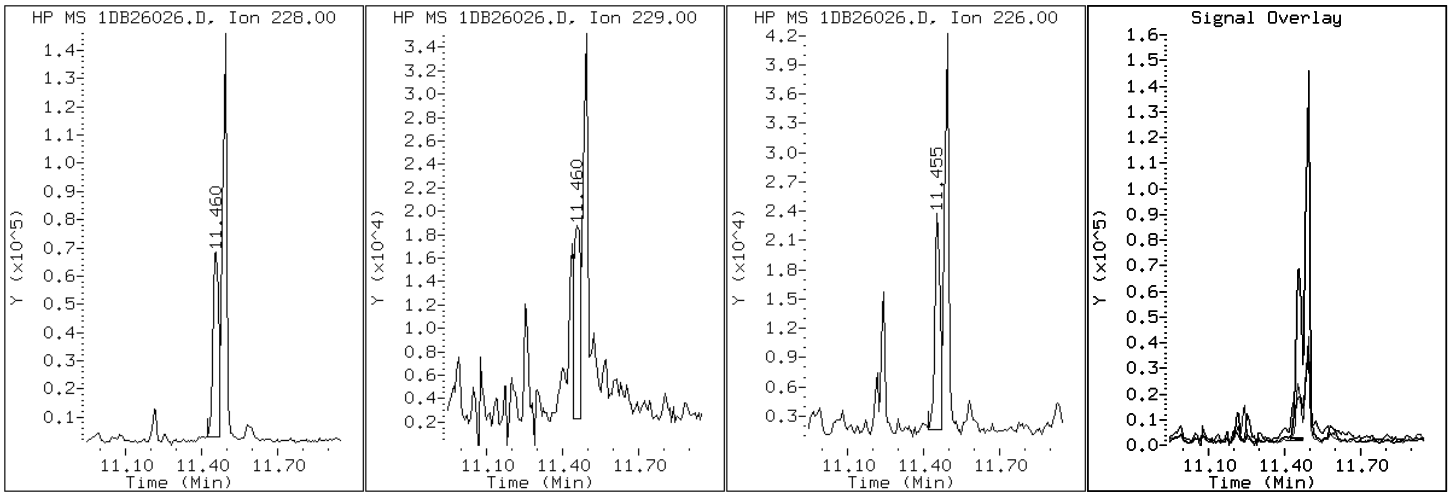
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

16 Benzo(a)anthracene



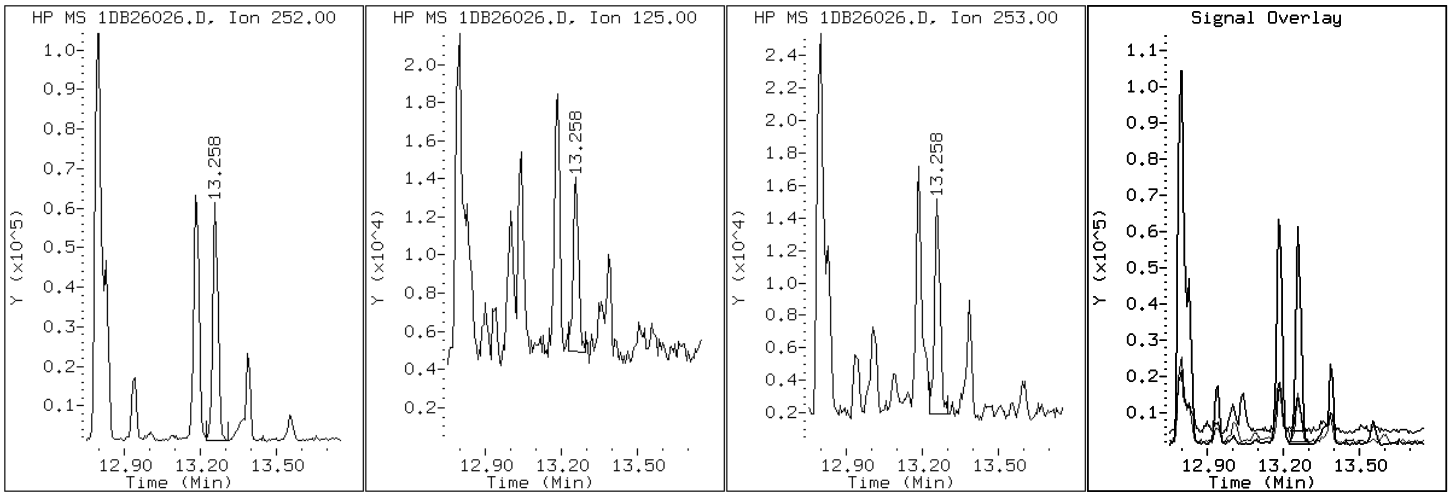
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

21 Benzo(a)pyrene



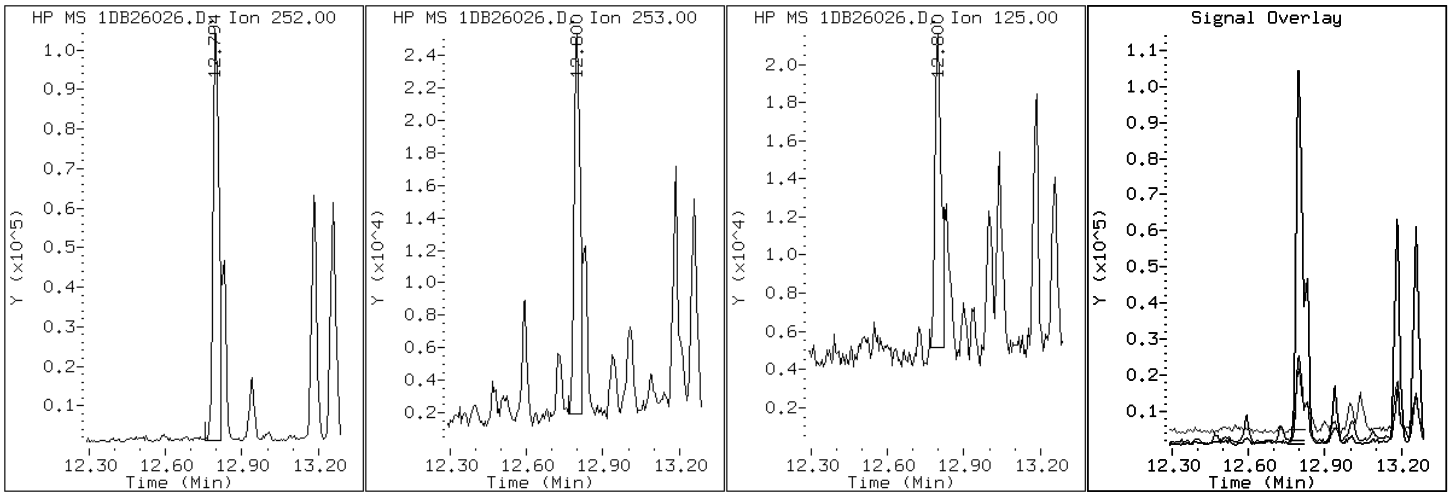
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

19 Benzo(b)fluoranthene



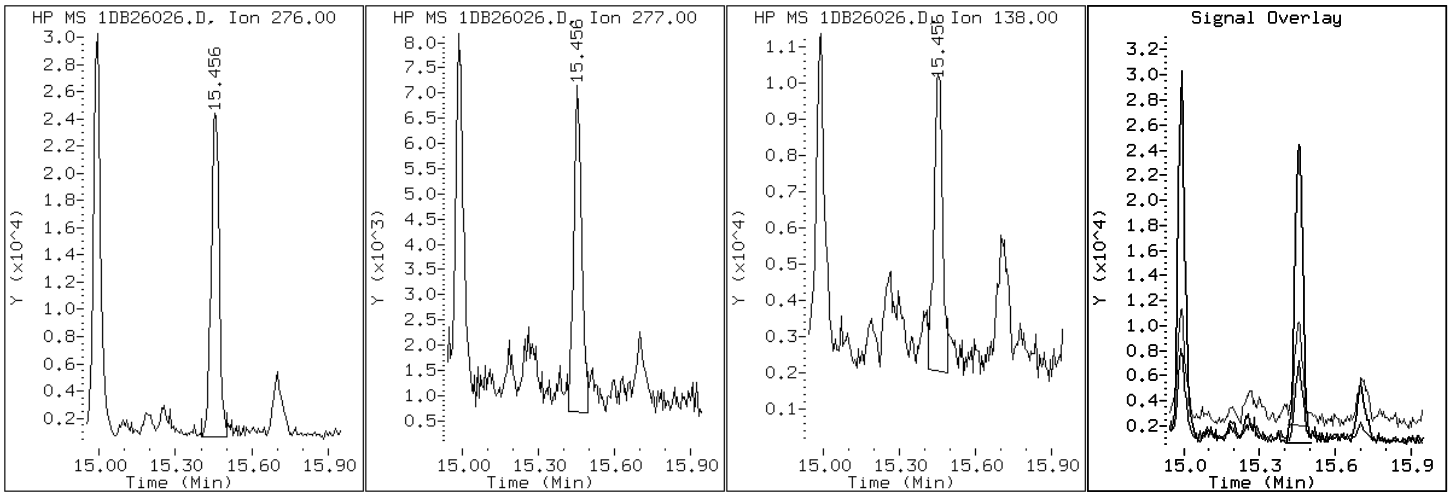
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

25 Benzo(g,h,i)perylene



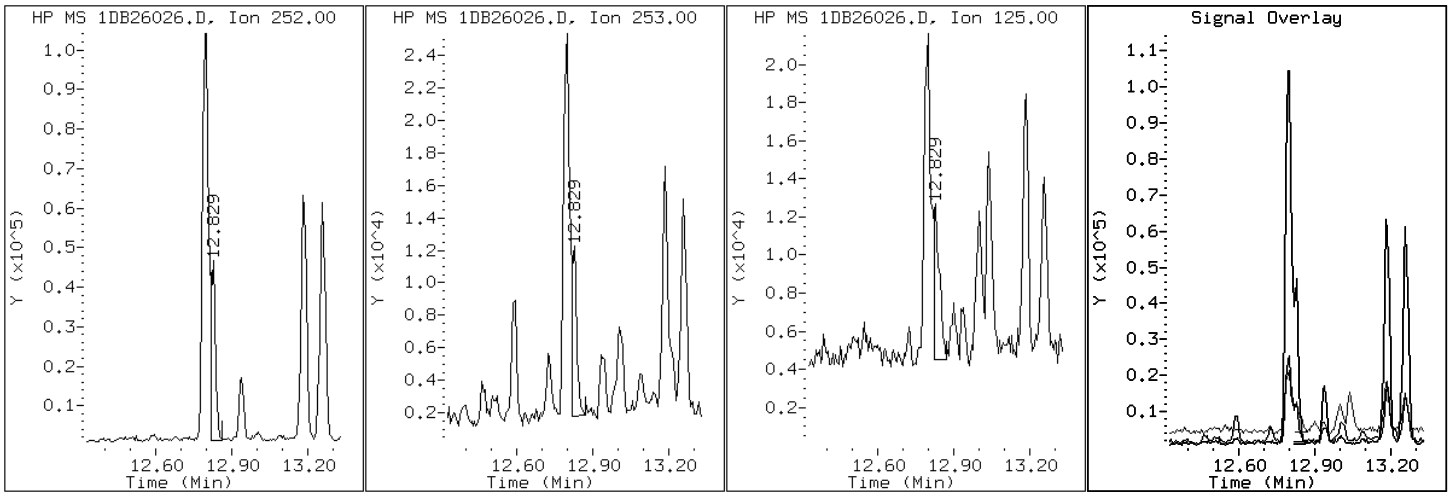
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

20 Benzo(k)fluoranthene



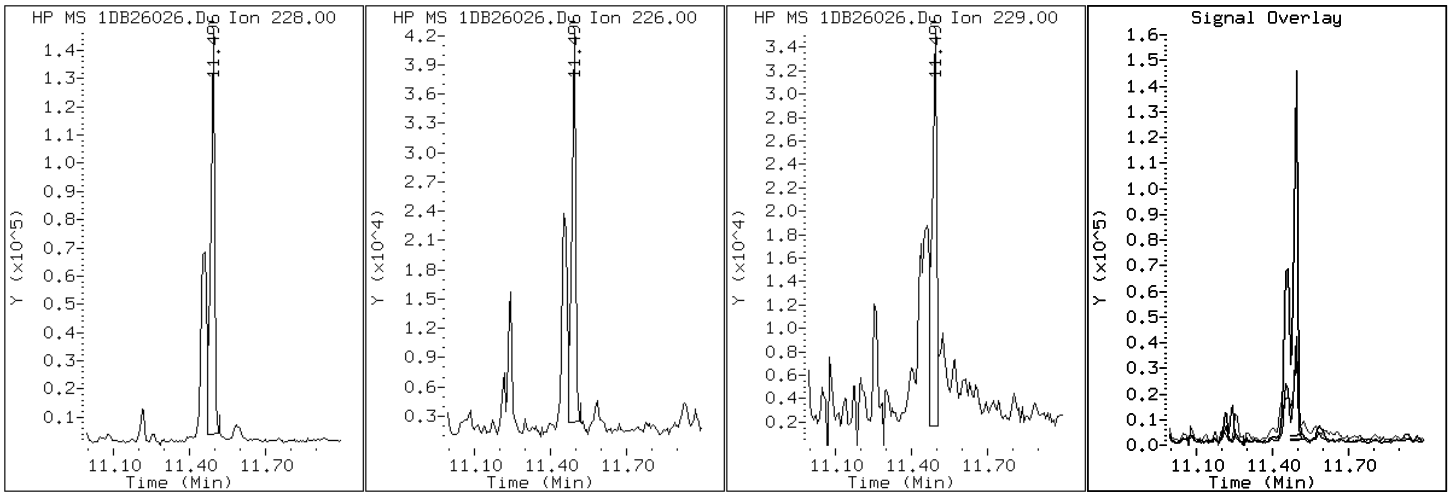
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

18 Chrysene



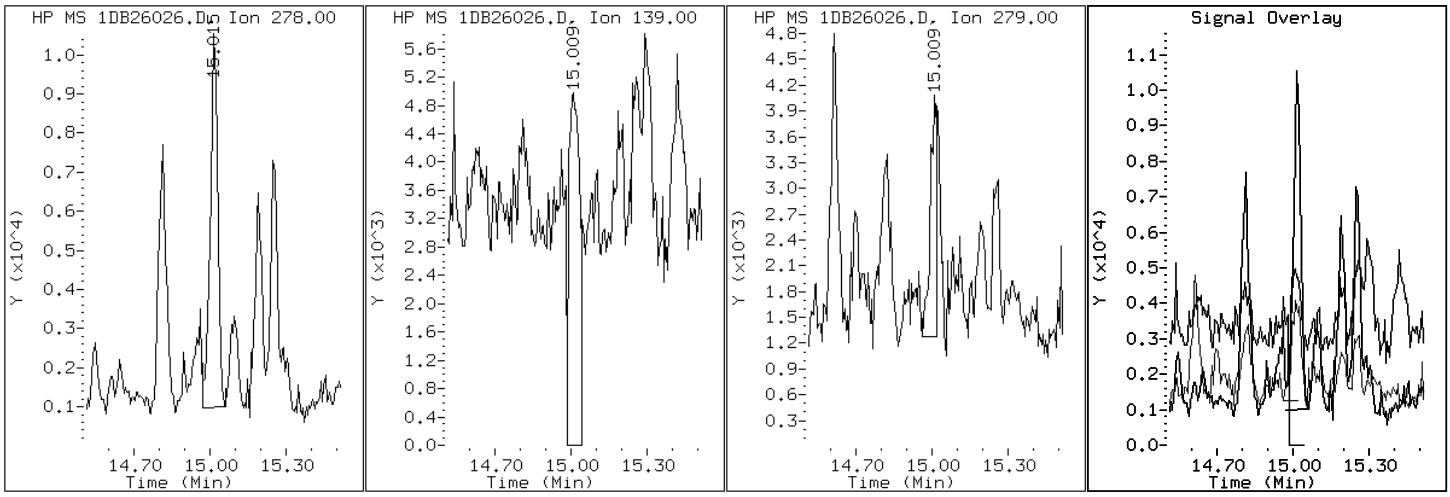
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

24 Dibenzo(a,h)anthracene



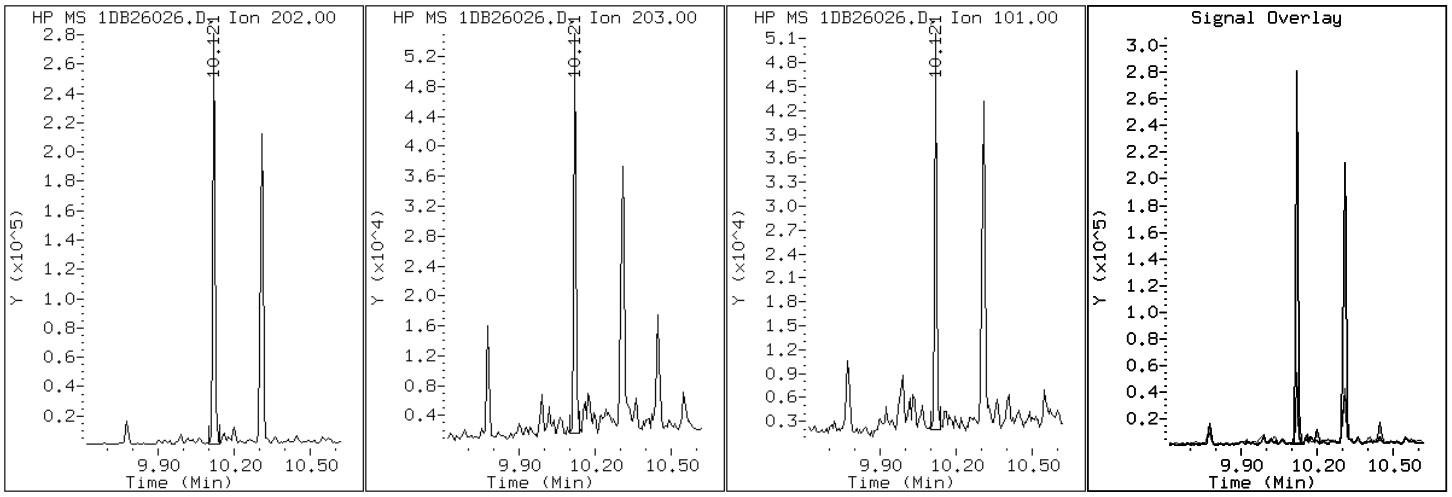
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

14 Fluoranthene



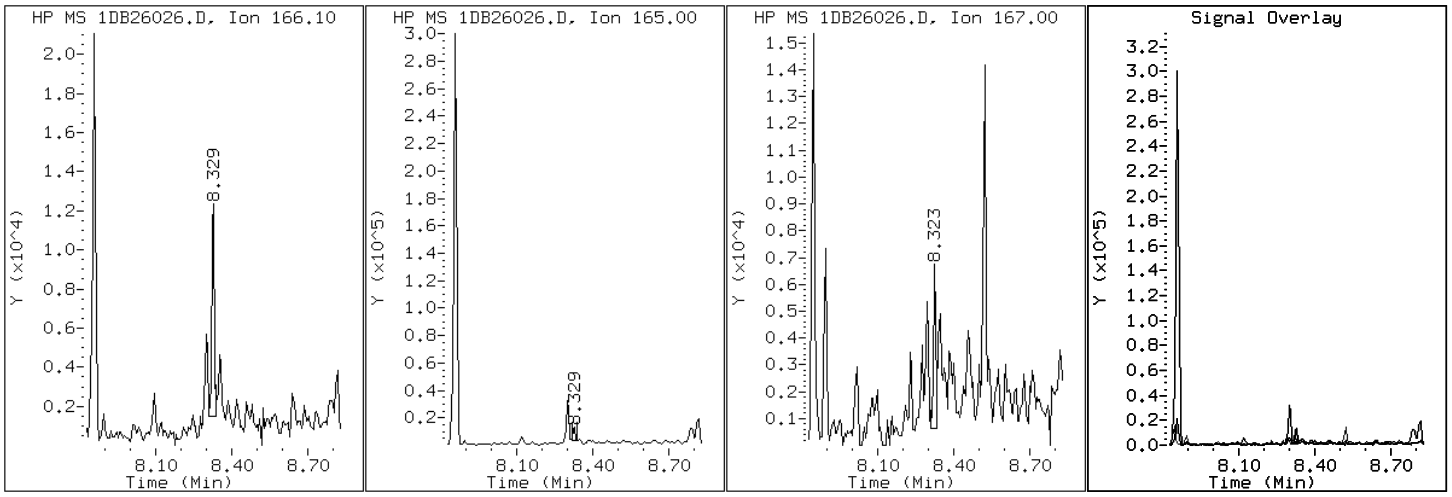
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

8 Fluorene



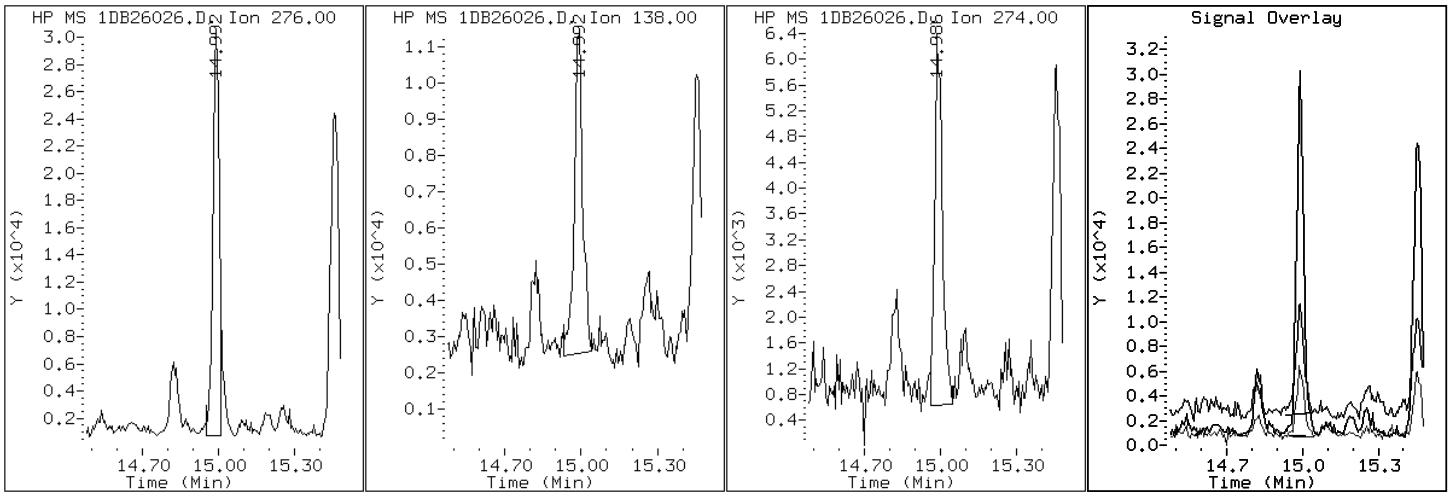
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

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



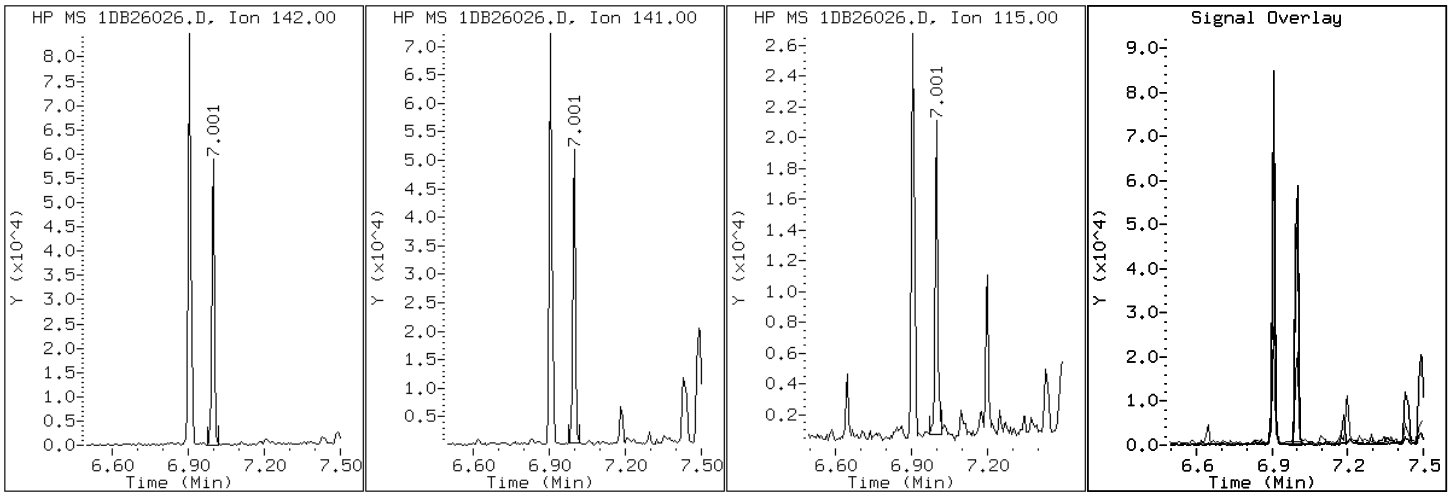
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

4 1-Methylnaphthalene



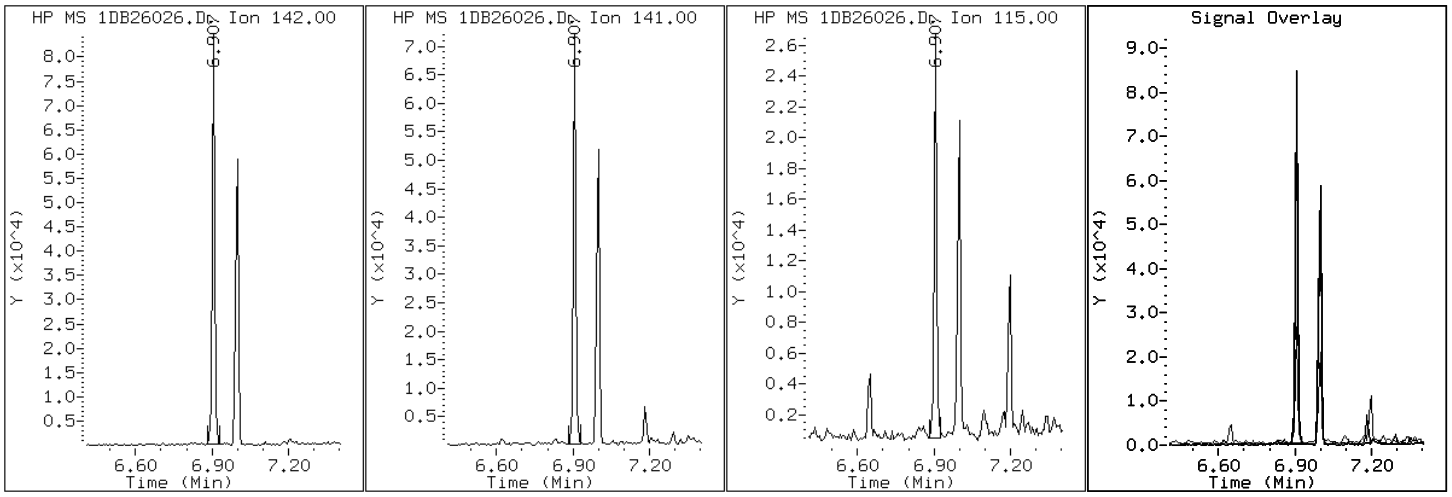
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

3 2-Methylnaphthalene



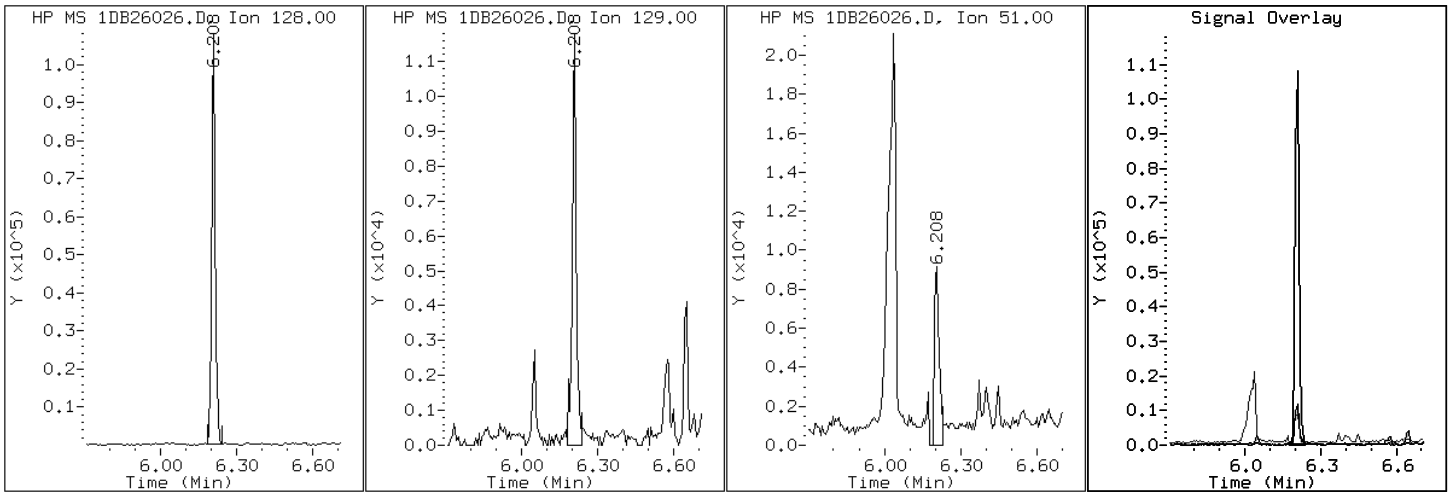
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

2 Naphthalene



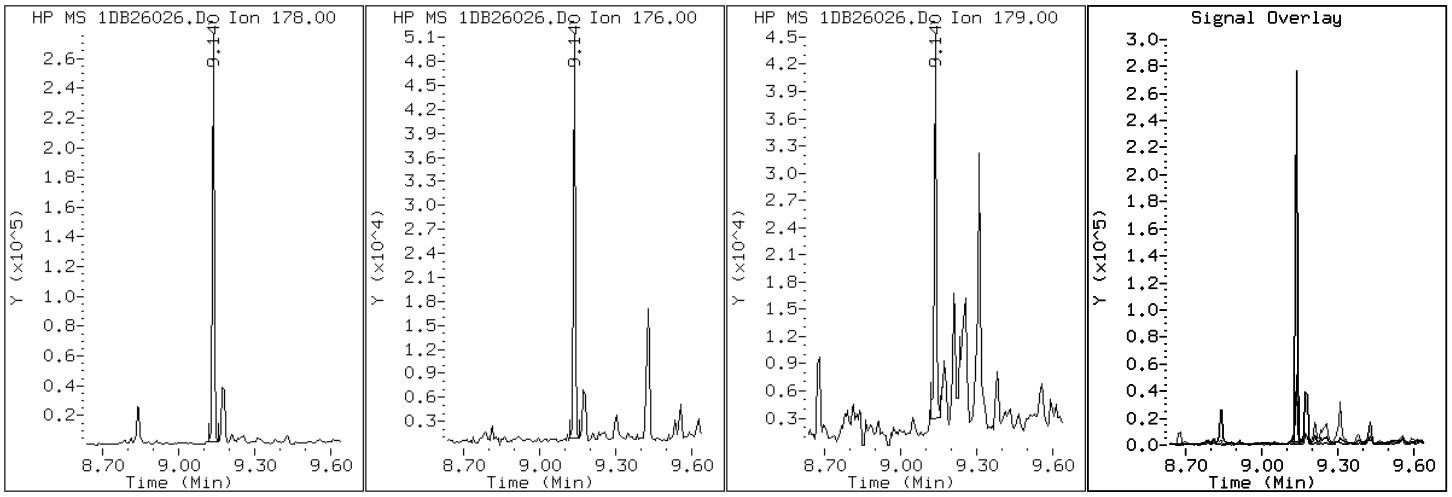
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

10 Phenanthrene



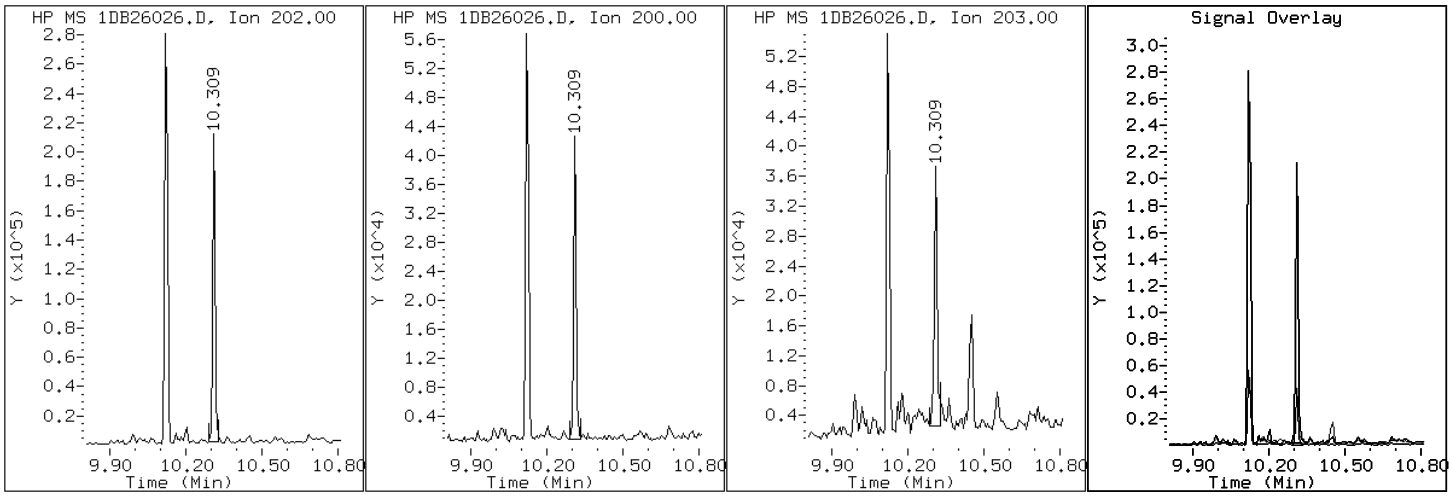
Data File: 1DB26026.D

Date: 26-FEB-2013 22:46

Client ID: FM0161GGG-CSD Instrument: BSMSD.i

Sample Info: 680-87545-A-88-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB26026.D
Inj. Date and Time: 26-FEB-2013 22:46
Instrument ID: BSMSD.i
Client ID: FM0161GGG-CSD
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/28/2013

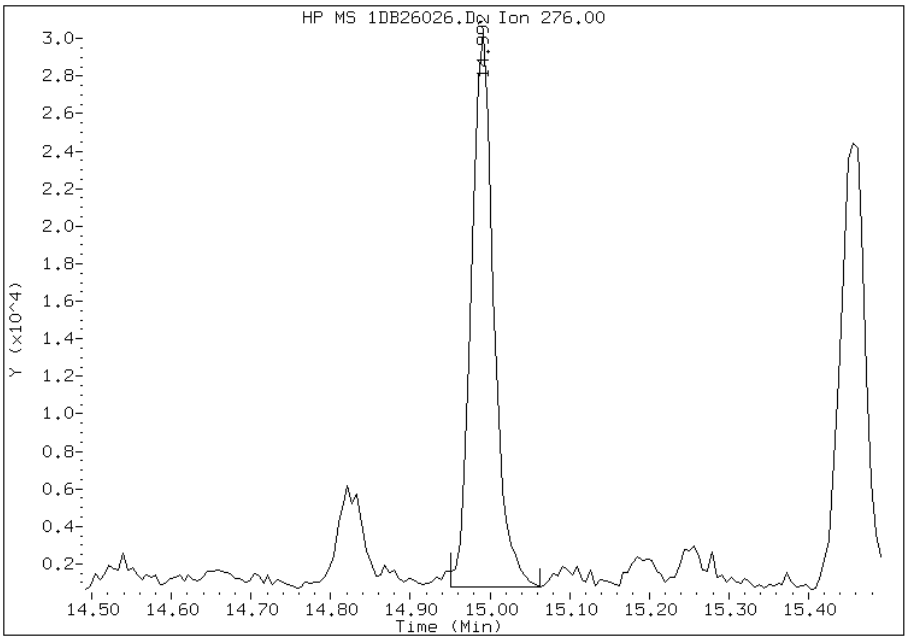
Processing Integration Results

RT: 14.99

Response: 58029

Amount: 1

Conc: 68



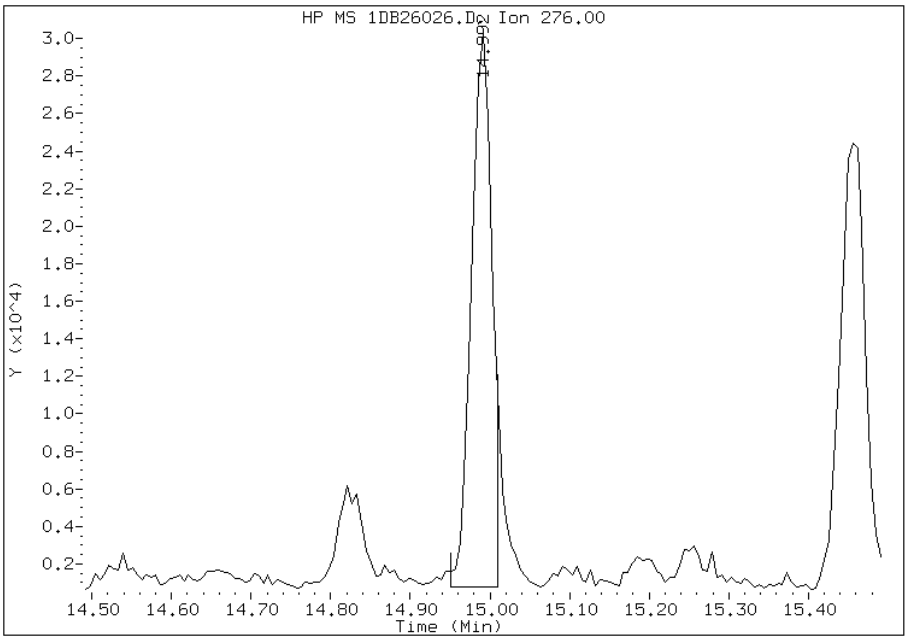
Manual Integration Results

RT: 14.99

Response: 52902

Amount: 1

Conc: 62



Manually Integrated By: cantins
Modification Date: 28-Feb-2013 10:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-5

SDG No.: 68087545-5

Client Sample ID: FM0161HHH-CS | Lab Sample ID: 680-87545-89

Matrix: Solid | Lab File ID: 1DB26027.D

Analysis Method: 8270C LL | Date Collected: 02/15/2013 09:24

Extract. Method: 3546 | Date Extracted: 02/25/2013 06:16

Sample wt/vol: 14.97(g) | Date Analyzed: 02/26/2013 23:09

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

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

% Moisture: 26.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134863 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	20	J	55	6.8
120-12-7	Anthracene	31		11	5.7
56-55-3	Benzo[a]anthracene	130		11	5.3
50-32-8	Benzo[a]pyrene	120		14	7.1
205-99-2	Benzo[b]fluoranthene	250		17	8.3
191-24-2	Benzo[g,h,i]perylene	72		27	6.0
207-08-9	Benzo[k]fluoranthene	67		11	4.9
218-01-9	Chrysene	170		12	6.2
53-70-3	Dibenz(a,h)anthracene	27		27	5.6
206-44-0	Fluoranthene	200		27	5.5
86-73-7	Fluorene	9.2	J	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	66		27	9.7
90-12-0	1-Methylnaphthalene	67		55	6.0
91-57-6	2-Methylnaphthalene	81		55	9.7
91-20-3	Naphthalene	77		55	6.0
85-01-8	Phenanthrene	150	B	11	5.3
129-00-0	Pyrene	160		27	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26027.D
Lab Smp Id: 680-87545-A-89-A Client Smp ID: FM0161HHH-CS
Inj Date : 26-FEB-2013 23:09
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-89-A
Misc Info : 680-87545-A-89-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\dFASTPAHi.m
Meth Date : 26-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	26.688	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.186	6.184	(1.000)	3238283	40.0000	
* 6 Acenaphthene-d10	164	7.860	7.859	(1.000)	1959829	40.0000	
* 9 Phenanthrene-d10	188	9.124	9.116	(1.000)	3196532	40.0000	
$ 13 o-Terphenyl	230	9.429	9.427	(1.033)	468356	9.47490	860
* 17 Chrysene-d12	240	11.474	11.466	(1.000)	3140619	40.0000	
* 22 Perylene-d12	264	13.372	13.352	(1.000)	2865463	40.0000	
2 Naphthalene	128	6.204	6.208	(1.003)	73224	0.84529	77
3 2-Methylnaphthalene	142	6.909	6.907	(1.117)	48980	0.88761	81
4 1-Methylnaphthalene	142	6.997	7.001	(1.131)	37914	0.73372	67
5 Acenaphthylene	152	7.731	7.729	(0.984)	18911	0.21887	20
8 Fluorene	166	8.325	8.329	(1.059)	6221	0.10107	9.2
10 Phenanthrene	178	9.141	9.139	(1.002)	145362	1.60198	140
11 Anthracene	178	9.177	9.181	(1.006)	30813	0.33940	31
12 Carbazole	167	9.318	9.316	(1.021)	18190	0.22413	20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.123	10.121	(1.109)	202654	2.14012	200
15 Pyrene	202	10.311	10.309	(0.899)	171342	1.75881	160
16 Benzo(a)anthracene	228	11.462	11.448	(0.999)	123009	1.43062	130
18 Chrysene	228	11.497	11.495	(1.002)	163541	1.84233	170
19 Benzo(b)fluoranthene	252	12.802	12.788	(0.957)	198494	2.69121	240
20 Benzo(k)fluoranthene	252	12.831	12.829	(0.960)	56817	0.73573	67
21 Benzo(a)pyrene	252	13.260	13.252	(0.992)	94118	1.28950	120
23 Indeno(1,2,3-cd)pyrene	276	14.999	14.980	(1.122)	56545	0.72594	66(M)
24 Dibenzo(a,h)anthracene	278	15.023	15.015	(1.123)	21308	0.29621	27
25 Benzo(g,h,i)perylene	276	15.463	15.450	(1.156)	58715	0.79061	72

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DB26027.D

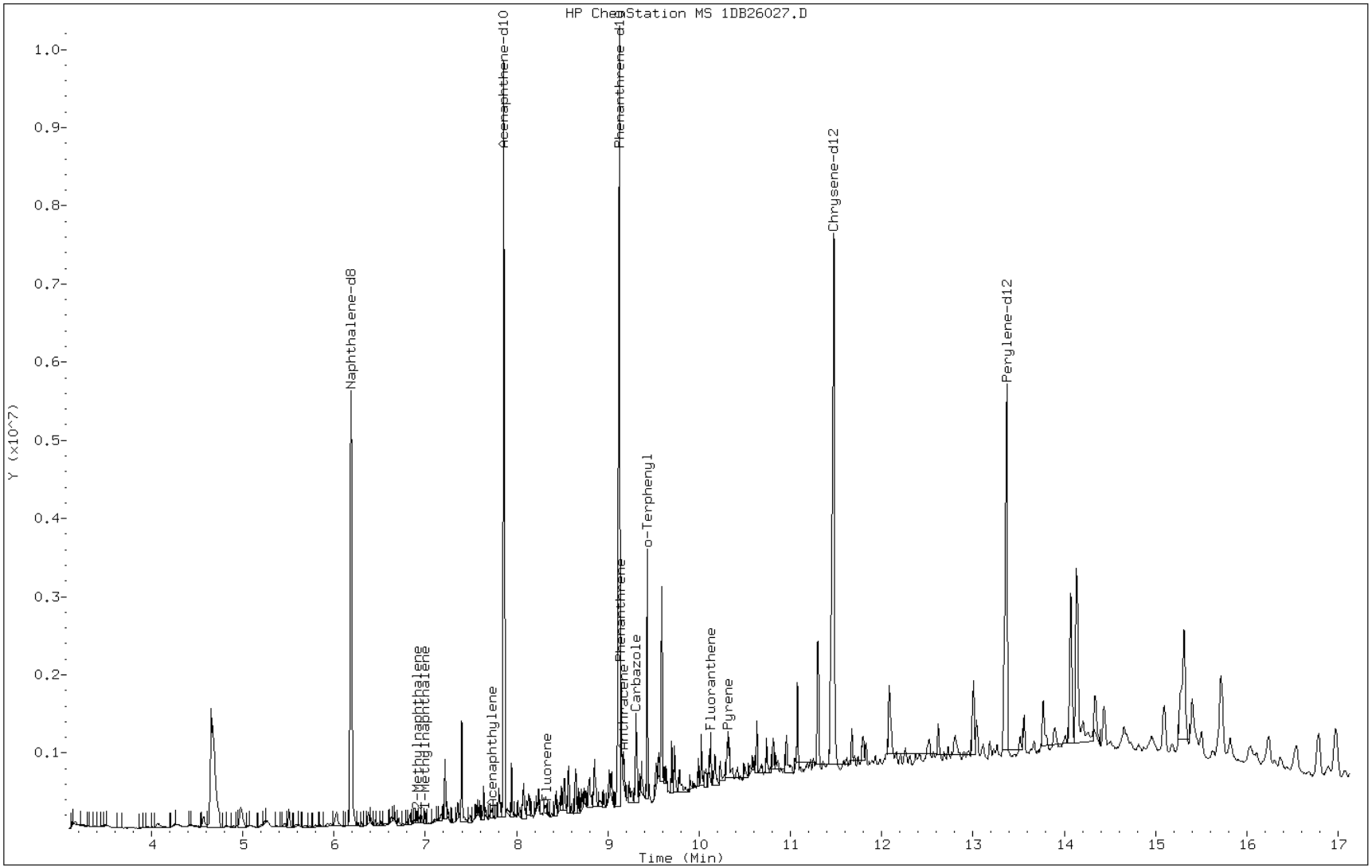
Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS

Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A

Operator: SCC



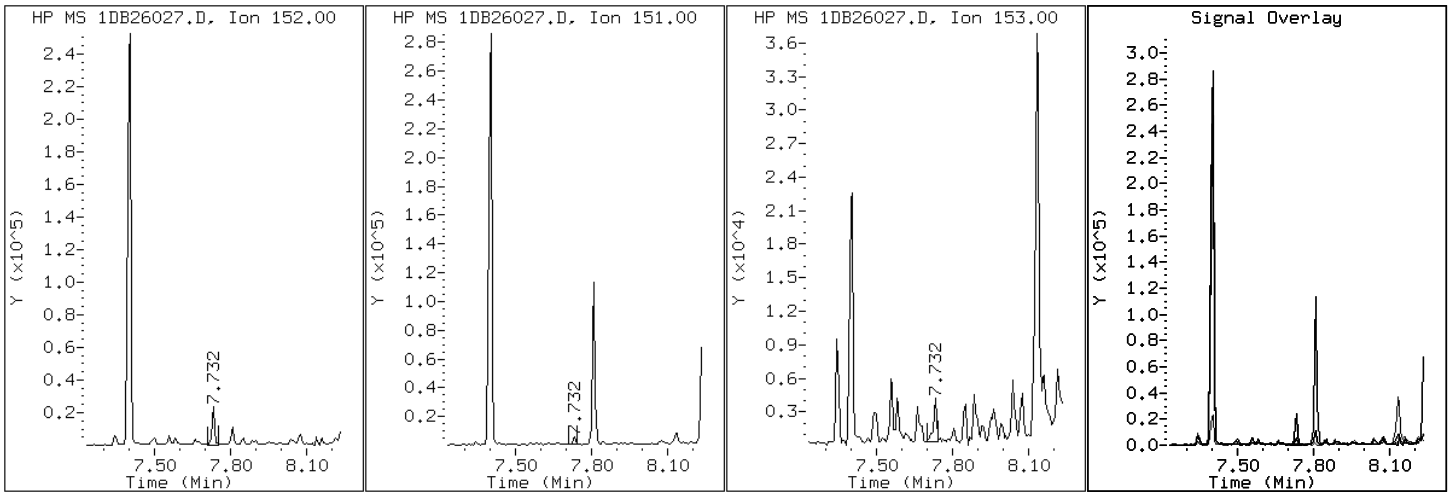
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

5 Acenaphthylene



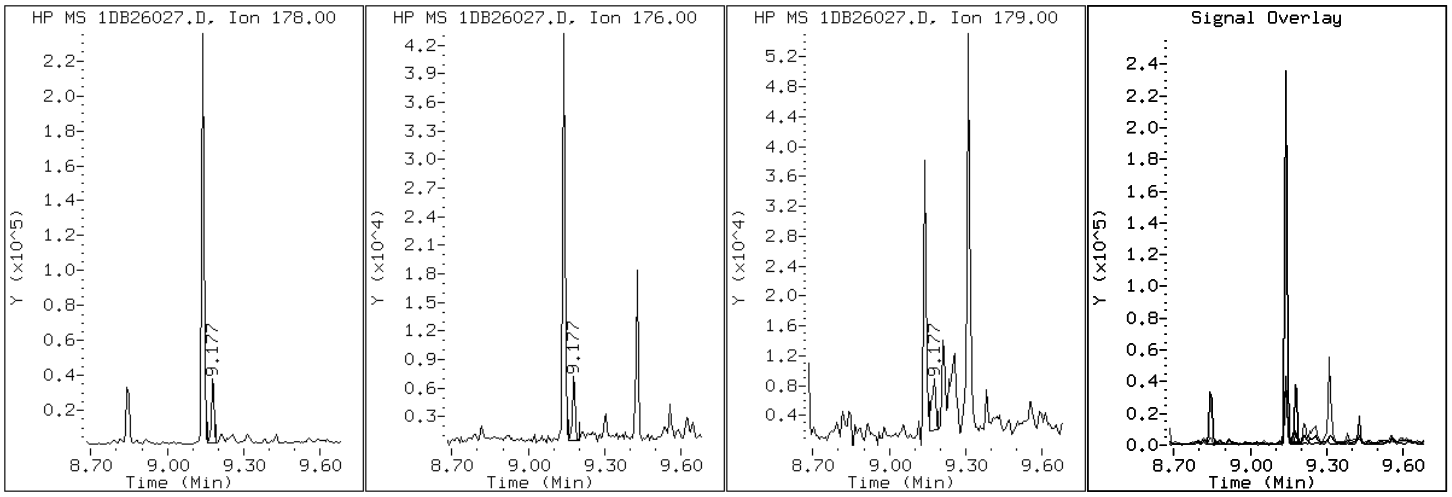
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

11 Anthracene



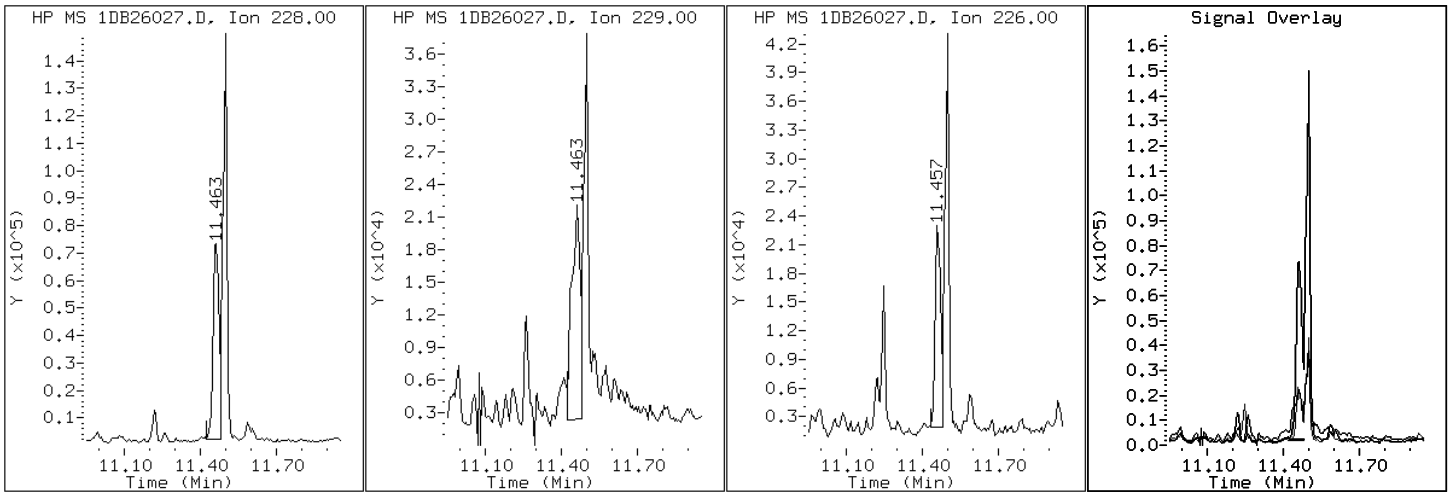
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

16 Benzo(a)anthracene



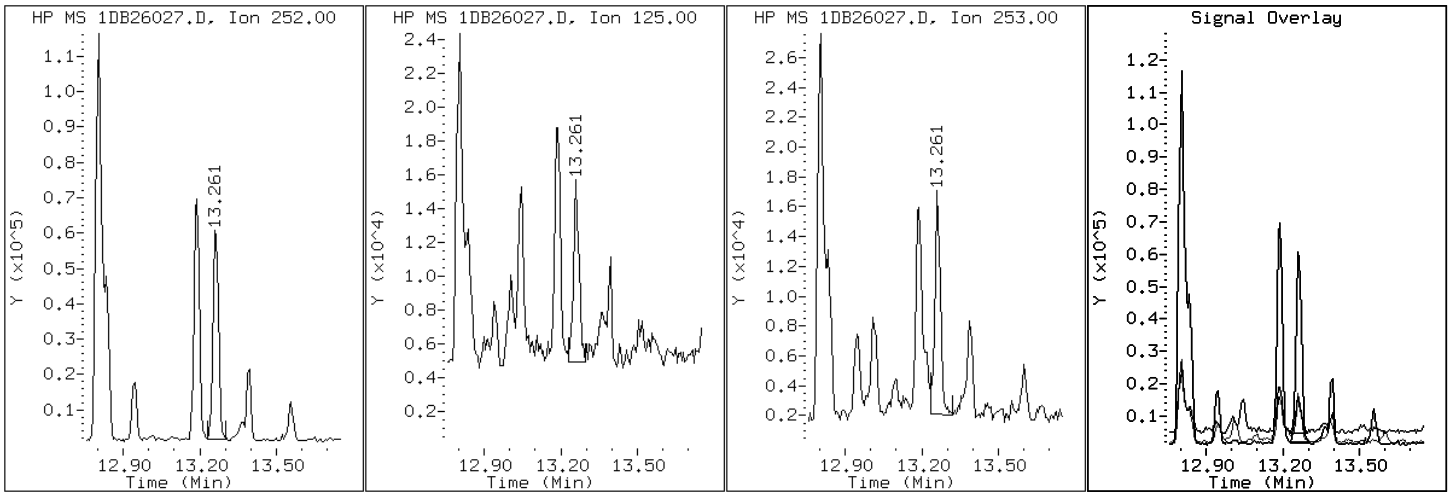
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

21 Benzo(a)pyrene



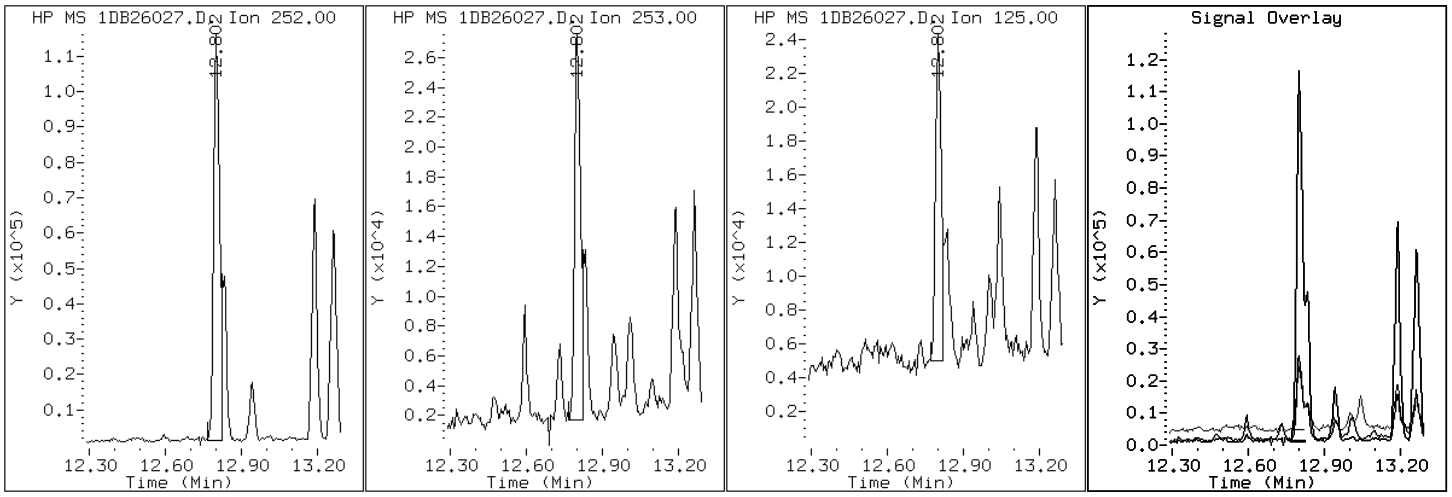
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

19 Benzo(b)fluoranthene



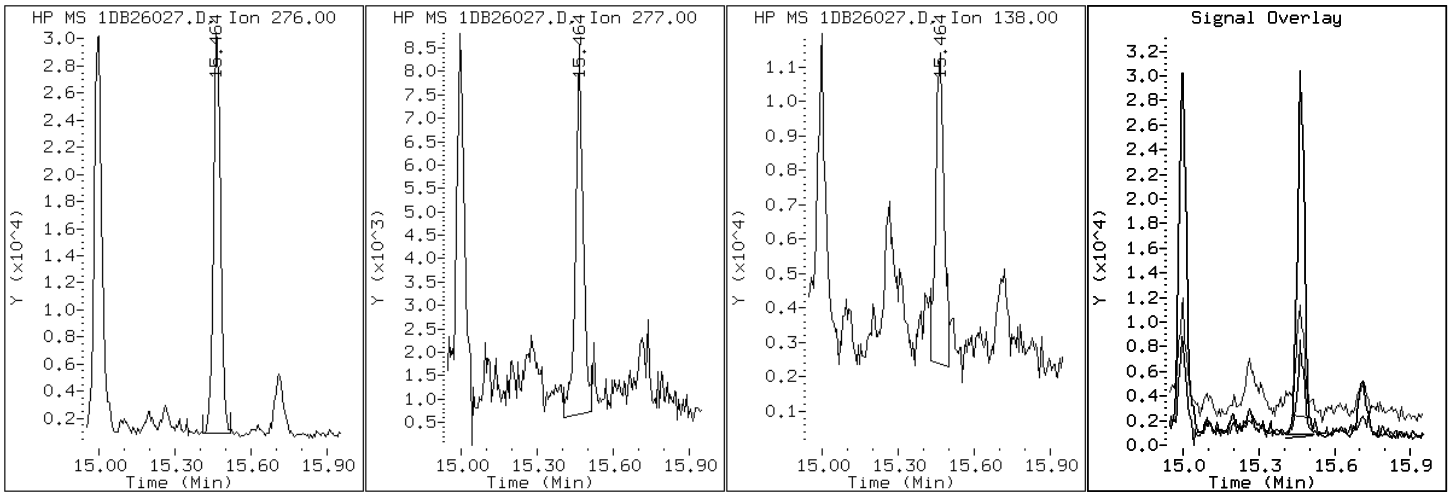
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

25 Benzo(g,h,i)perylene



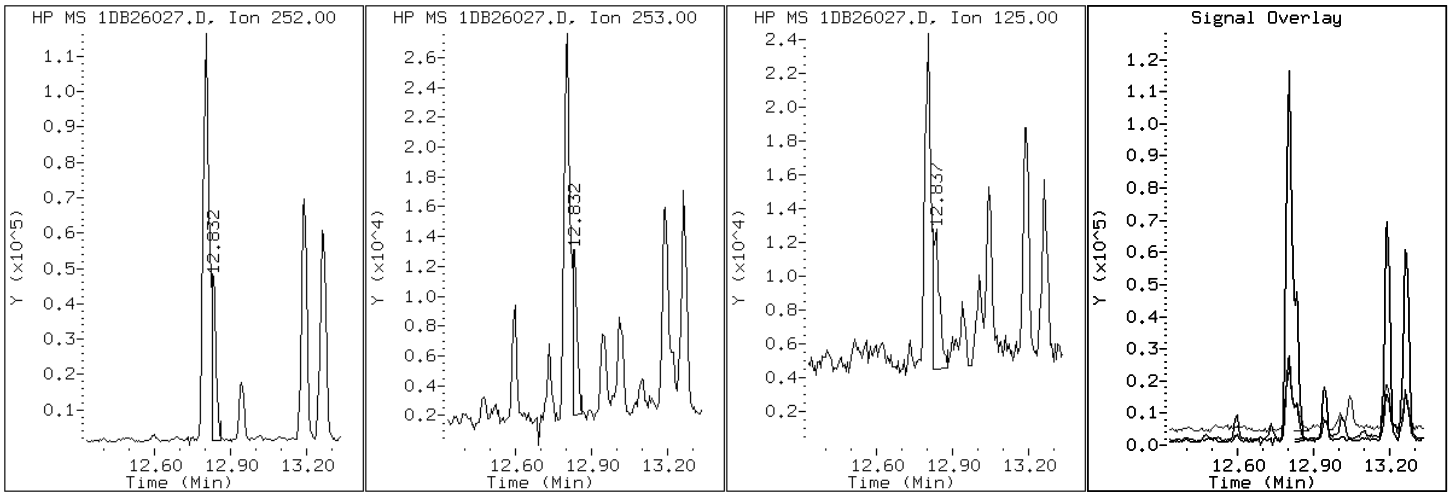
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

20 Benzo(k)fluoranthene



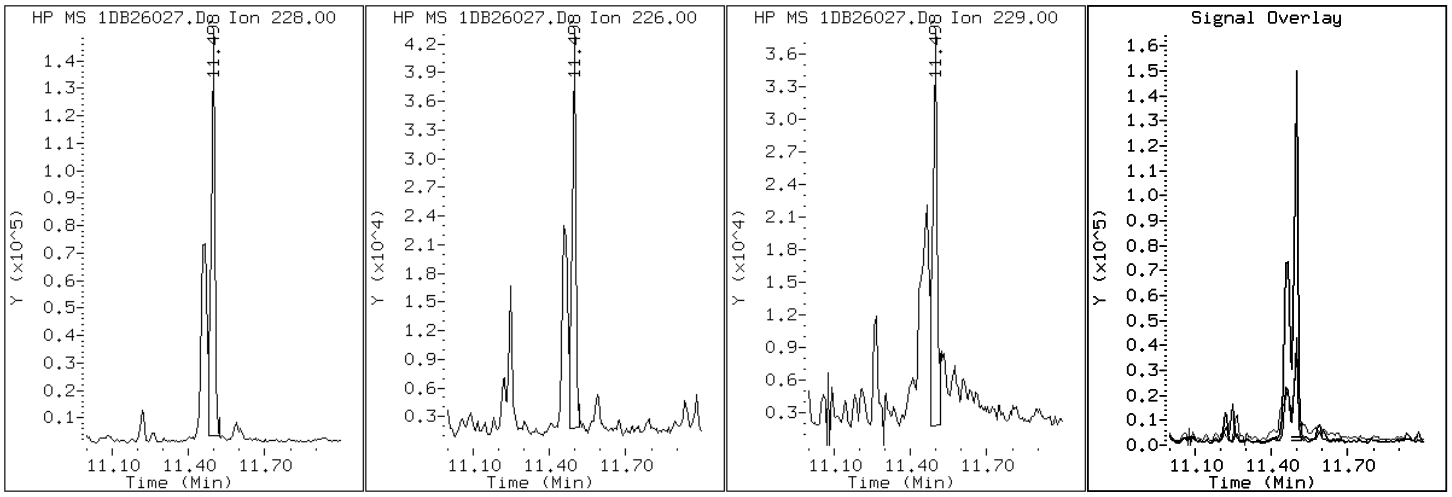
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

18 Chrysene



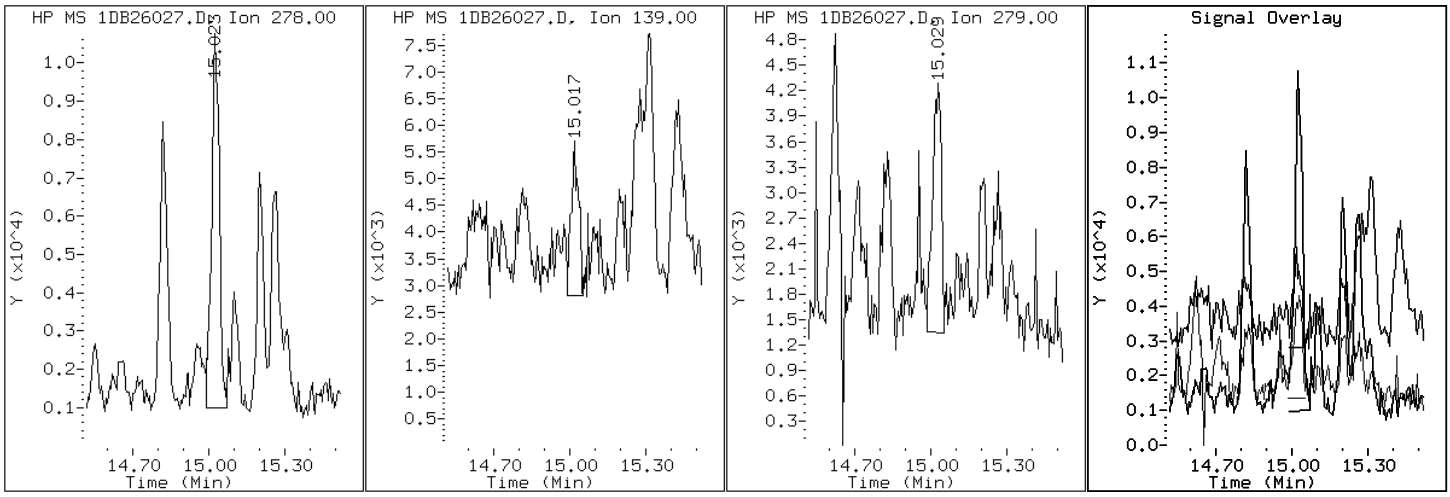
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

24 Dibenzo(a,h)anthracene



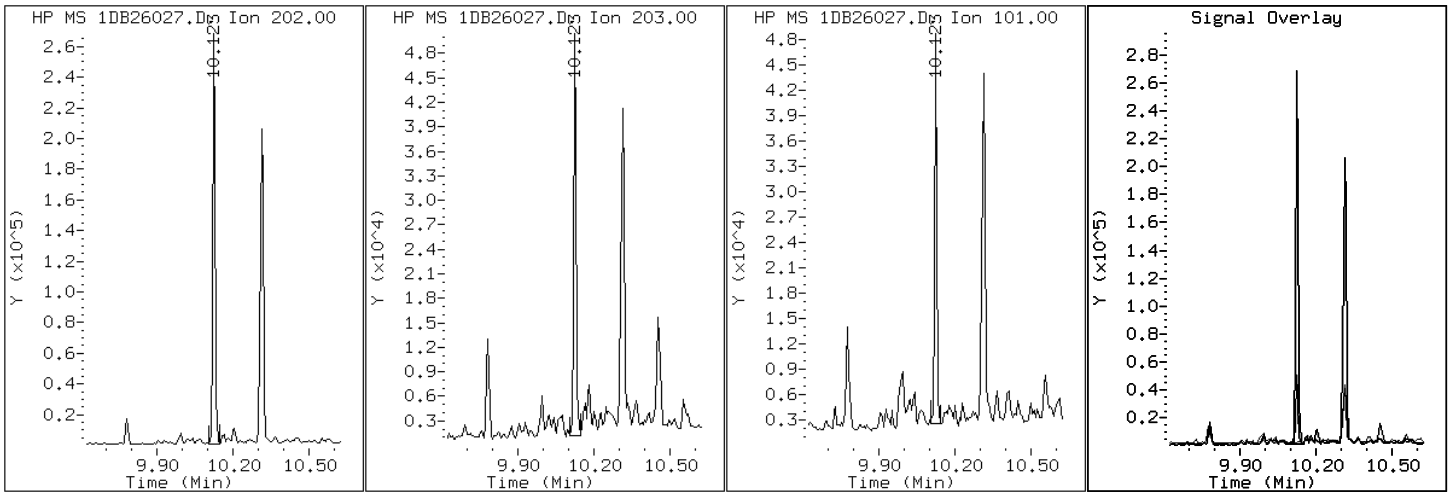
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

14 Fluoranthene



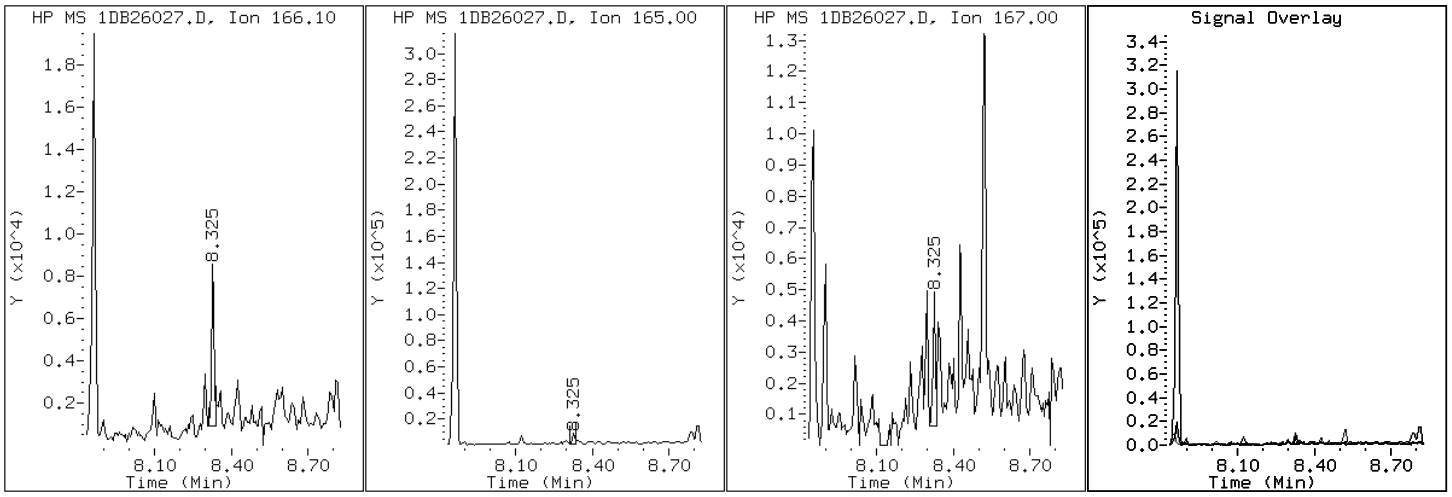
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

8 Fluorene



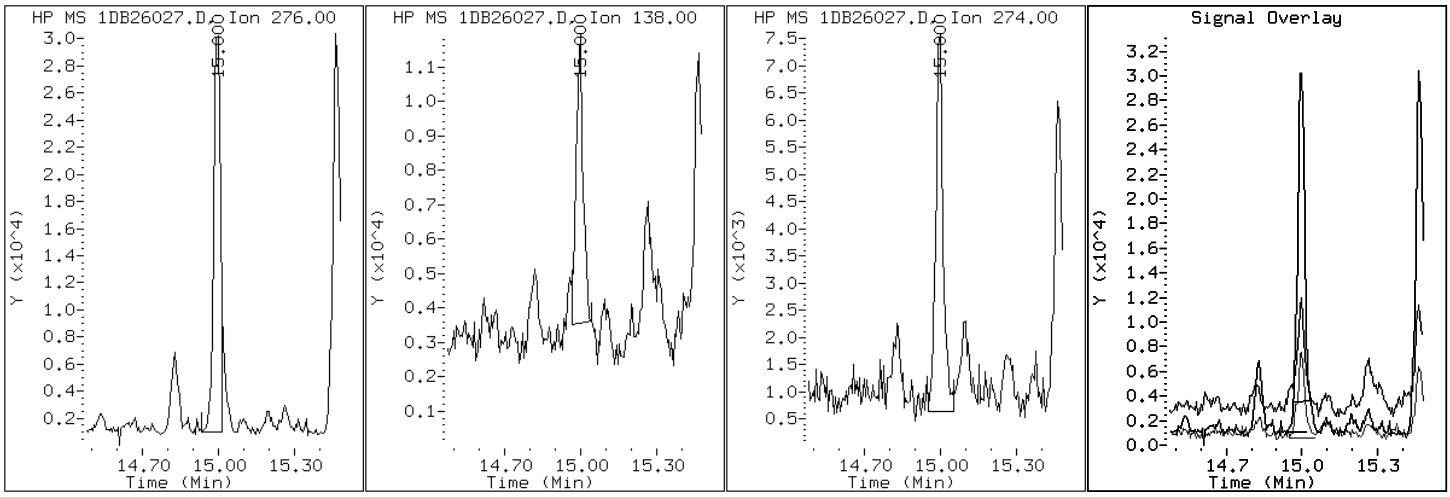
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

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



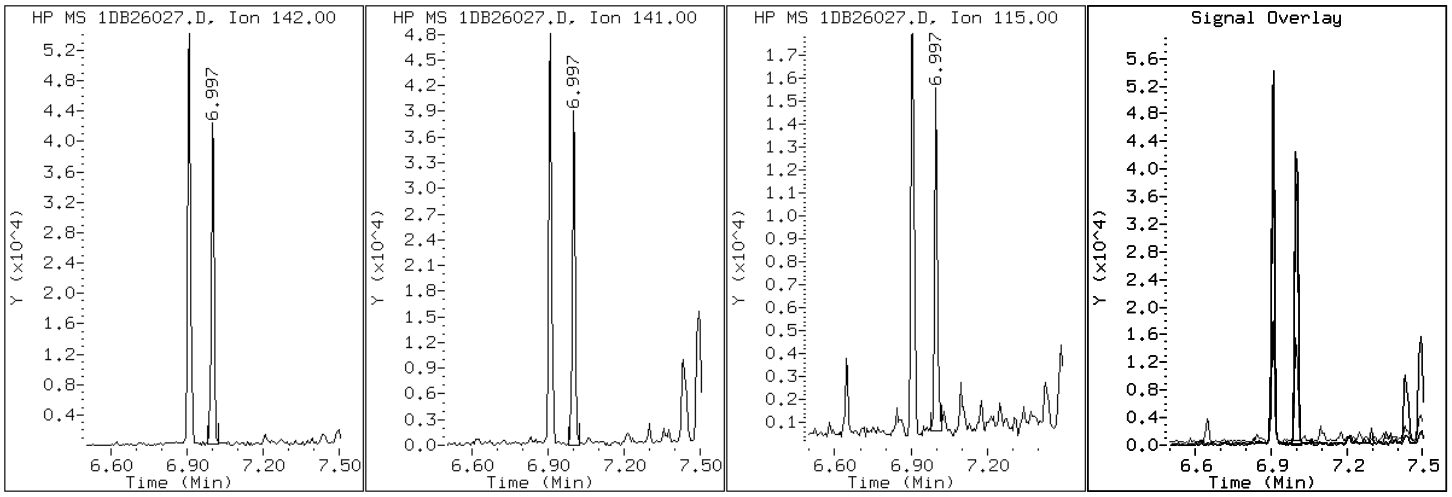
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

4 1-Methylnaphthalene



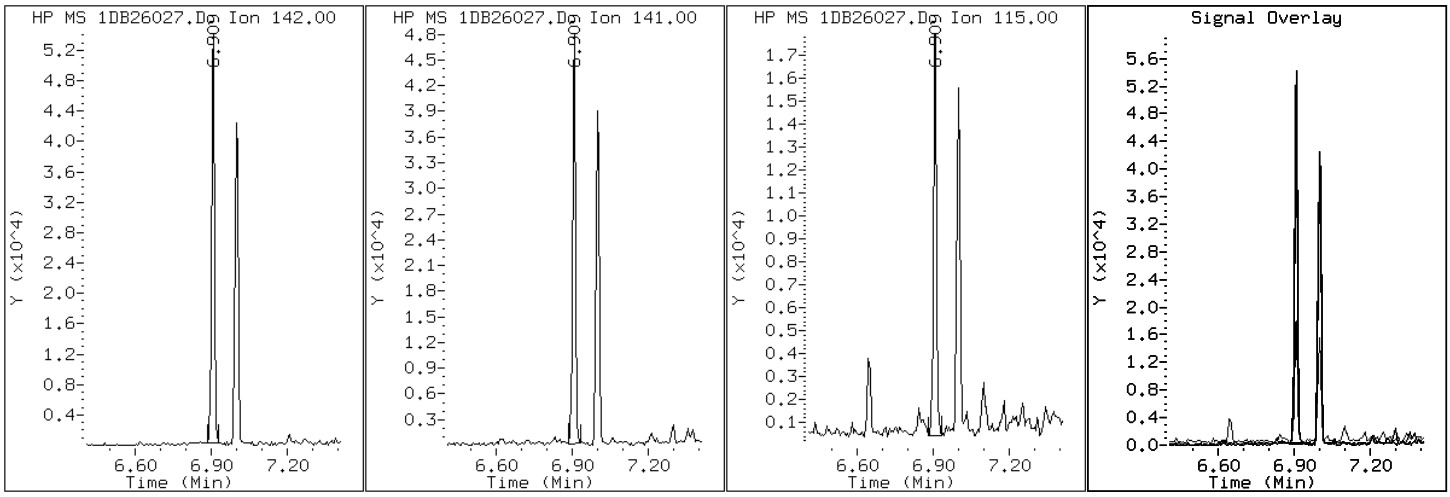
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

3 2-Methylnaphthalene



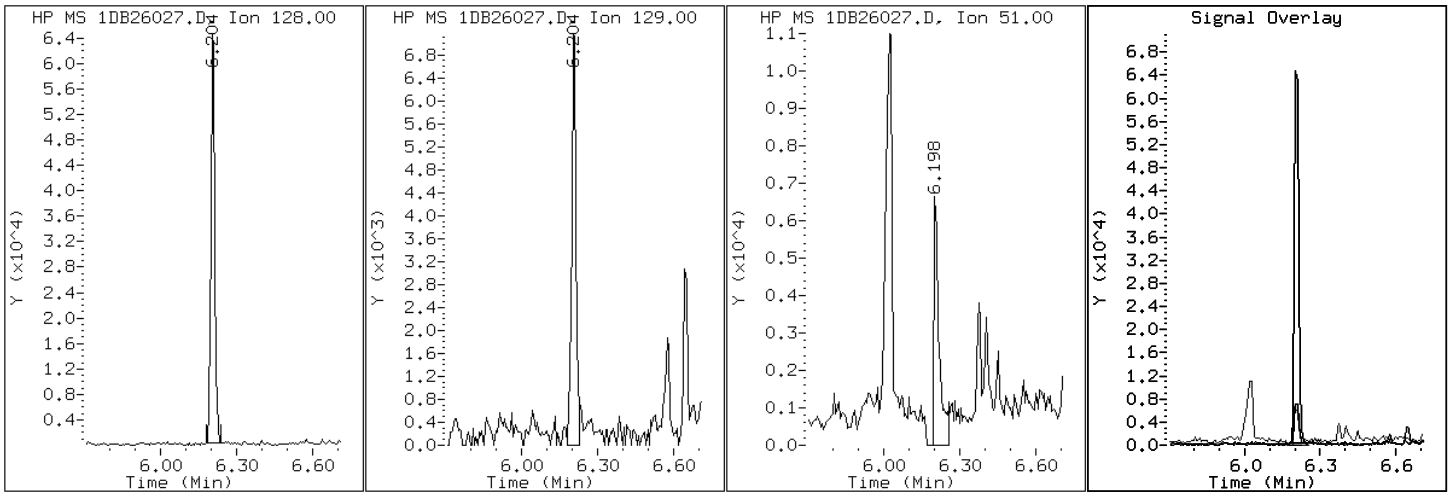
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

2 Naphthalene



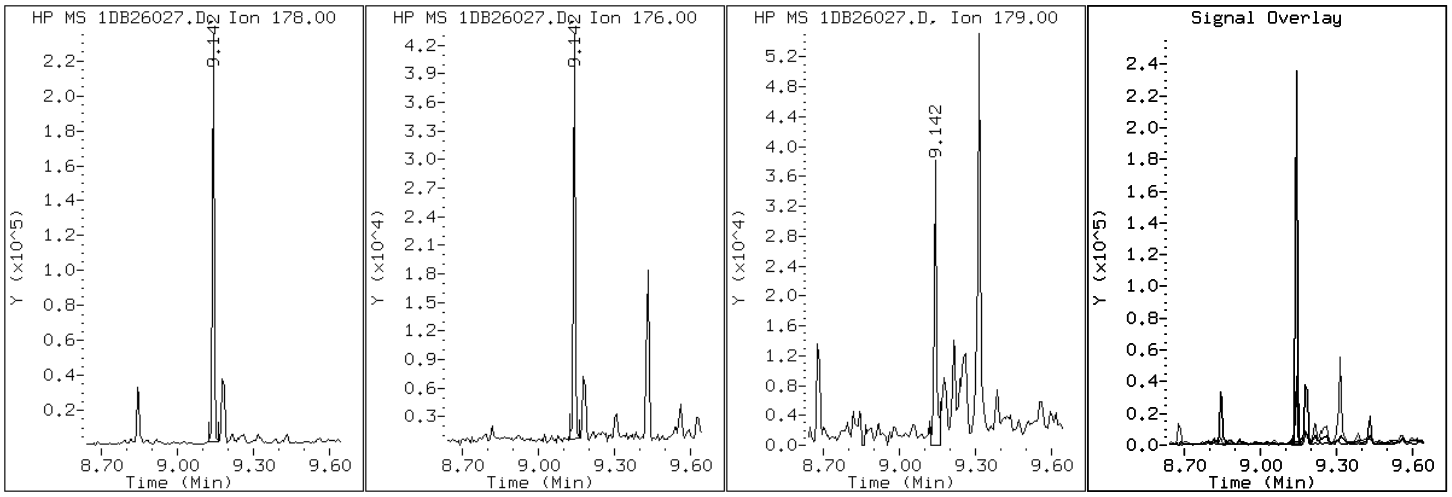
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

10 Phenanthrene



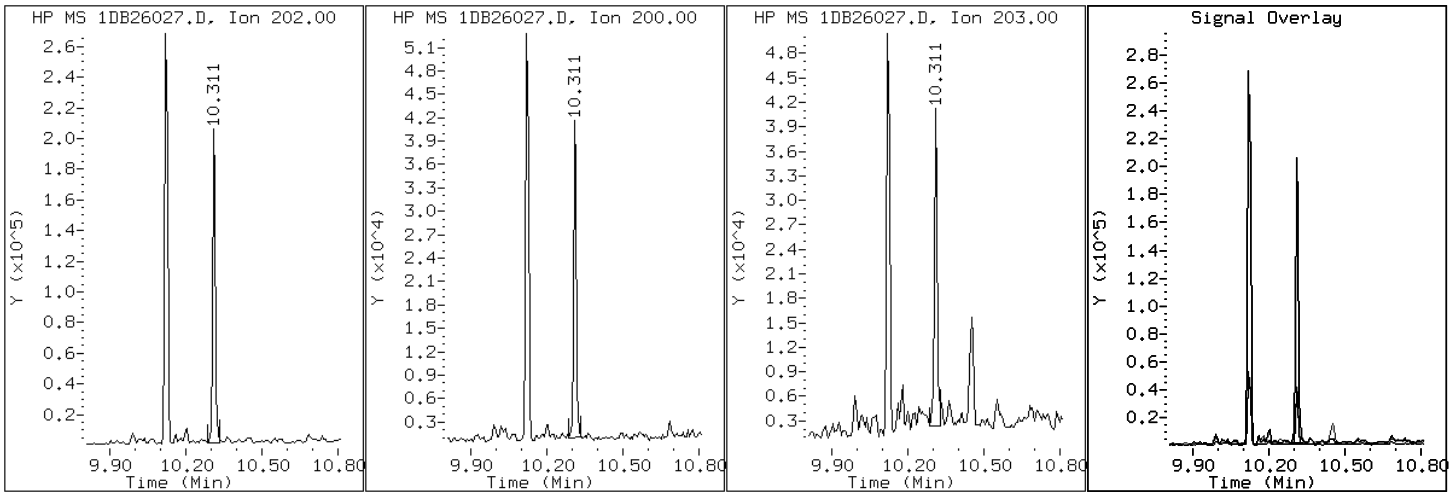
Data File: 1DB26027.D

Date: 26-FEB-2013 23:09

Client ID: FM0161HHH-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-89-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB26027.D
Inj. Date and Time: 26-FEB-2013 23:09
Instrument ID: BSMSD.i
Client ID: FM0161HHH-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/28/2013

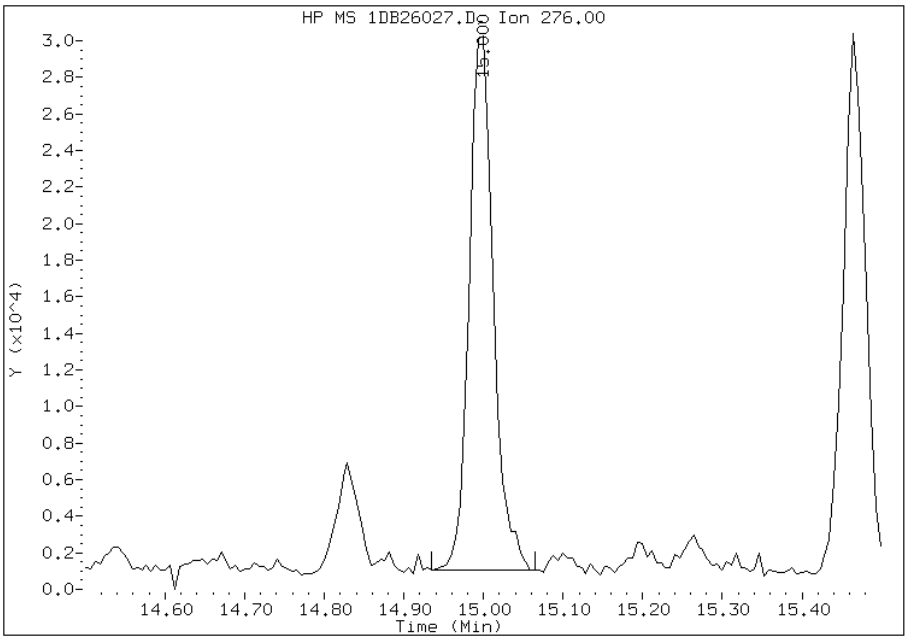
Processing Integration Results

RT: 15.00

Response: 61576

Amount: 1

Conc: 72



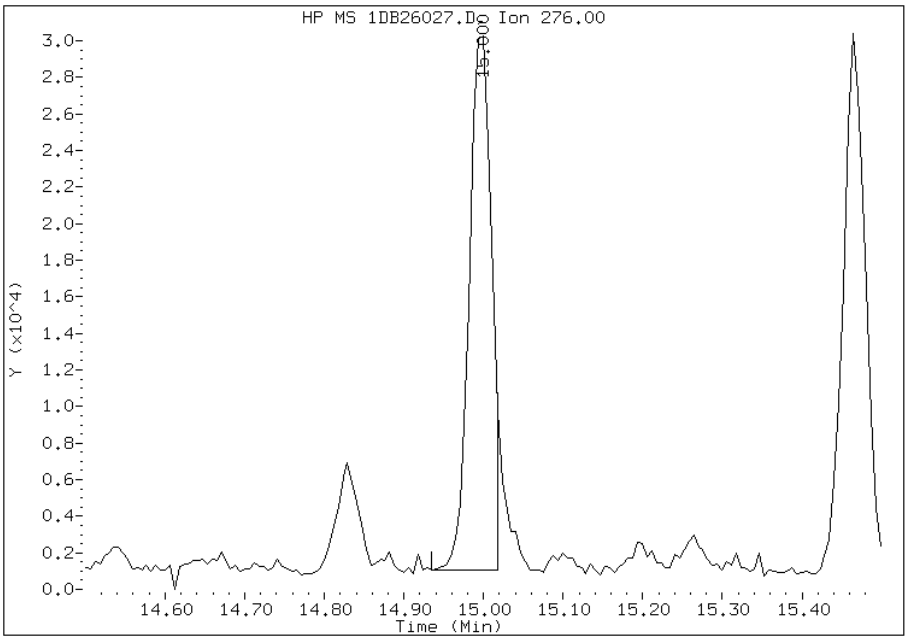
Manual Integration Results

RT: 15.00

Response: 56545

Amount: 1

Conc: 66



Manually Integrated By: cantins
Modification Date: 28-Feb-2013 10:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-5

SDG No.: 68087545-5

Client Sample ID: FM0161III-CS | Lab Sample ID: 680-87545-90

Matrix: Solid | Lab File ID: 1DB26028.D

Analysis Method: 8270C LL | Date Collected: 02/15/2013 09:29

Extract. Method: 3546 | Date Extracted: 02/25/2013 06:16

Sample wt/vol: 15.32(g) | Date Analyzed: 02/26/2013 23:31

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

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

% Moisture: 29.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134863 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	33	J	55	6.9
120-12-7	Anthracene	41		12	5.8
56-55-3	Benzo[a]anthracene	160		11	5.4
50-32-8	Benzo[a]pyrene	160		14	7.2
205-99-2	Benzo[b]fluoranthene	310		17	8.4
191-24-2	Benzo[g,h,i]perylene	85		28	6.1
207-08-9	Benzo[k]fluoranthene	93		11	5.0
218-01-9	Chrysene	220		12	6.2
53-70-3	Dibenz(a,h)anthracene	39		28	5.7
206-44-0	Fluoranthene	290		28	5.5
86-73-7	Fluorene	11	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	85		28	9.8
90-12-0	1-Methylnaphthalene	70		55	6.1
91-57-6	2-Methylnaphthalene	86		55	9.8
91-20-3	Naphthalene	87		55	6.1
85-01-8	Phenanthrene	190	B	11	5.4
129-00-0	Pyrene	220		28	5.1

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26028.D
Lab Smp Id: 680-87545-A-90-A Client Smp ID: FM0161III-CS
Inj Date : 26-FEB-2013 23:31
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-90-A
Misc Info : 680-87545-A-90-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\dFASTPAHi.m
Meth Date : 26-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	29.122	% 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	6.184	(1.000)	3180446	40.0000	
* 6 Acenaphthene-d10	164	7.864	7.859	(1.000)	1910411	40.0000	
* 9 Phenanthrene-d10	188	9.127	9.116	(1.000)	3105062	40.0000	
$ 13 o-Terphenyl	230	9.432	9.427	(1.033)	436671	9.09414	840
* 17 Chrysene-d12	240	11.477	11.466	(1.000)	3098496	40.0000	
* 22 Perylene-d12	264	13.369	13.352	(1.000)	2769864	40.0000	
2 Naphthalene	128	6.207	6.208	(1.003)	80003	0.94034	86
3 2-Methylnaphthalene	142	6.906	6.907	(1.116)	50530	0.93235	86
4 1-Methylnaphthalene	142	7.000	7.001	(1.131)	38408	0.75679	70
5 Acenaphthylene	152	7.729	7.729	(0.983)	29820	0.35405	33
8 Fluorene	166	8.328	8.329	(1.059)	7387	0.12311	11
10 Phenanthrene	178	9.139	9.139	(1.001)	179044	2.03130	190
11 Anthracene	178	9.180	9.181	(1.006)	39593	0.44896	41
12 Carbazole	167	9.321	9.316	(1.021)	21071	0.26727	25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.126	10.121	(1.109)	287876	3.12966	290
15 Pyrene	202	10.314	10.309	(0.899)	232284	2.41679	220
16 Benzo(a)anthracene	228	11.460	11.448	(0.998)	146996	1.73283	160
18 Chrysene	228	11.501	11.495	(1.002)	209567	2.39292	220
19 Benzo(b)fluoranthene	252	12.805	12.788	(0.958)	238483	3.34498	310
20 Benzo(k)fluoranthene	252	12.840	12.829	(0.960)	75369	1.00964	93
21 Benzo(a)pyrene	252	13.263	13.252	(0.992)	119334	1.69141	160
23 Indeno(1,2,3-cd)pyrene	276	14.997	14.980	(1.122)	69423	0.92204	85(M)
24 Dibenzo(a,h)anthracene	278	15.026	15.015	(1.124)	29711	0.42728	39
25 Benzo(g,h,i)perylene	276	15.472	15.450	(1.157)	65884	0.91777	84

QC Flag Legend

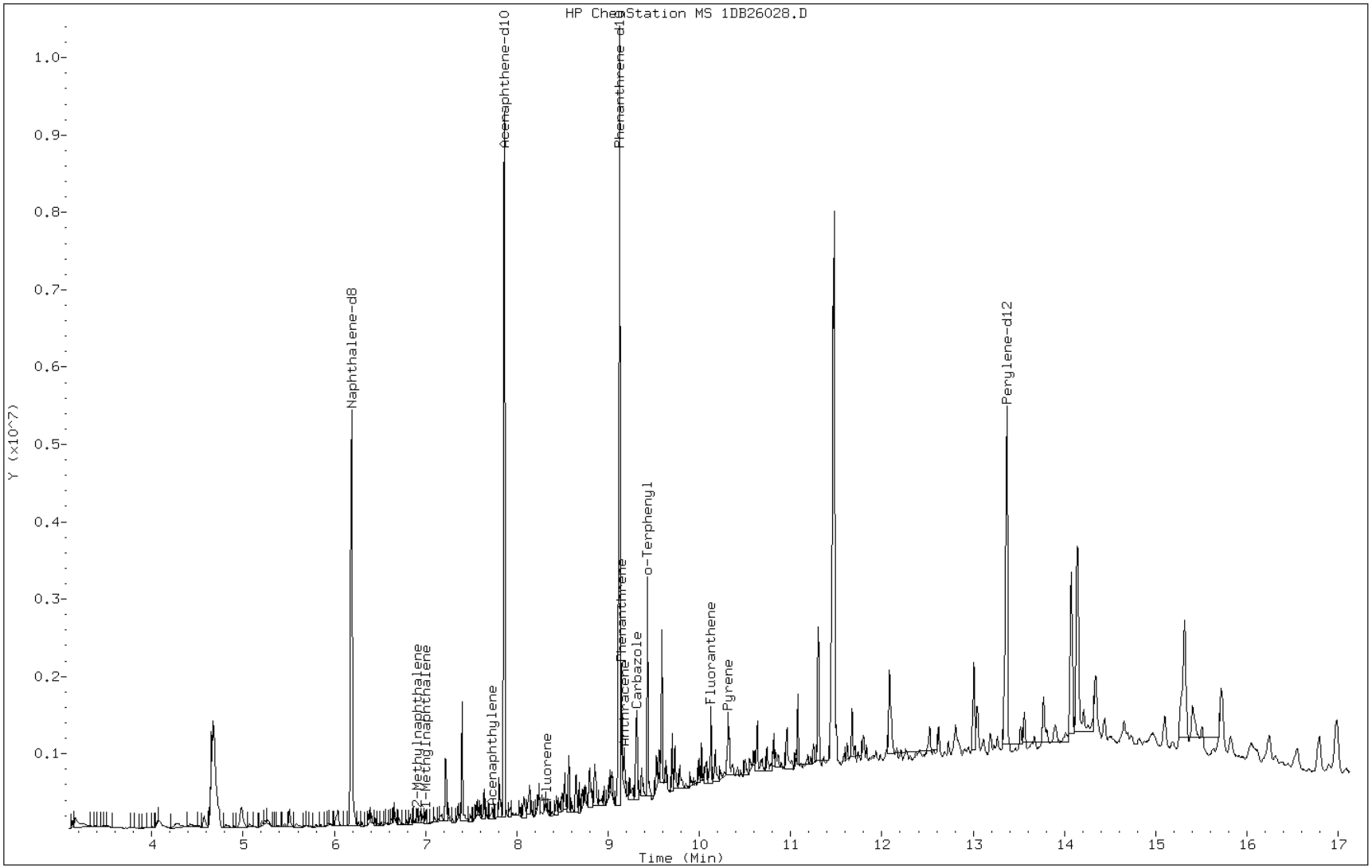
M - Compound response manually integrated.

Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC



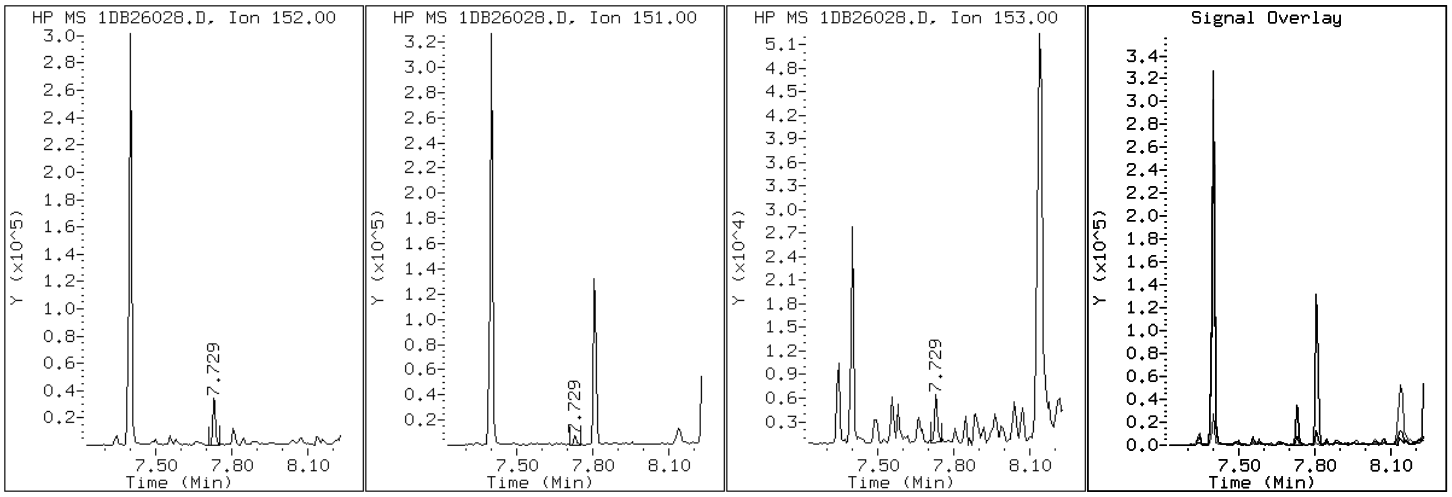
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

5 Acenaphthylene



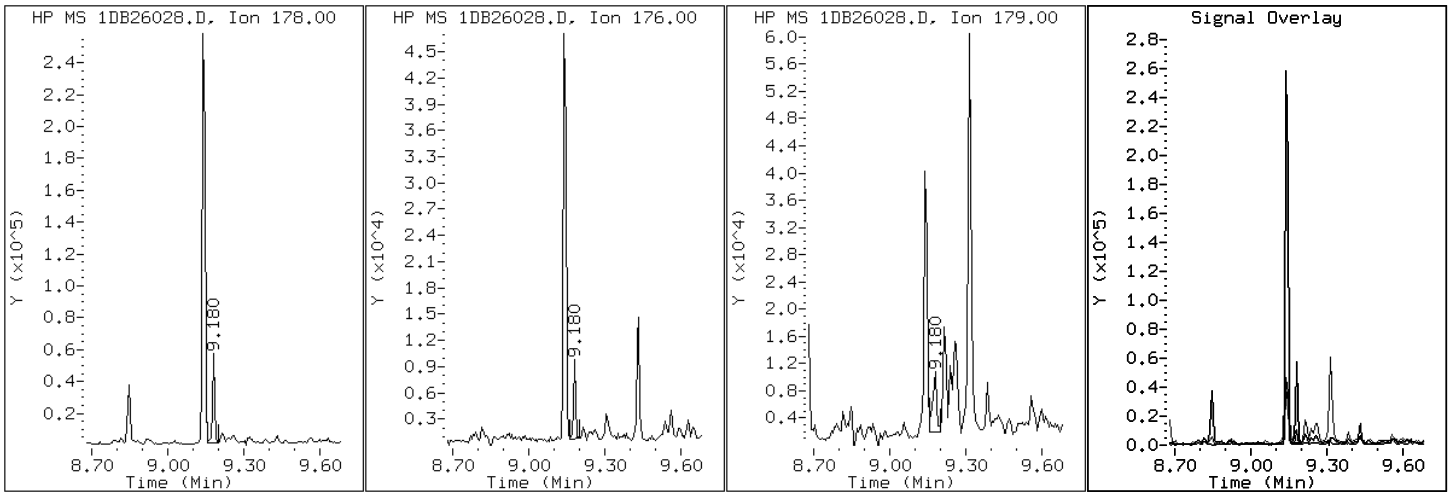
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

11 Anthracene



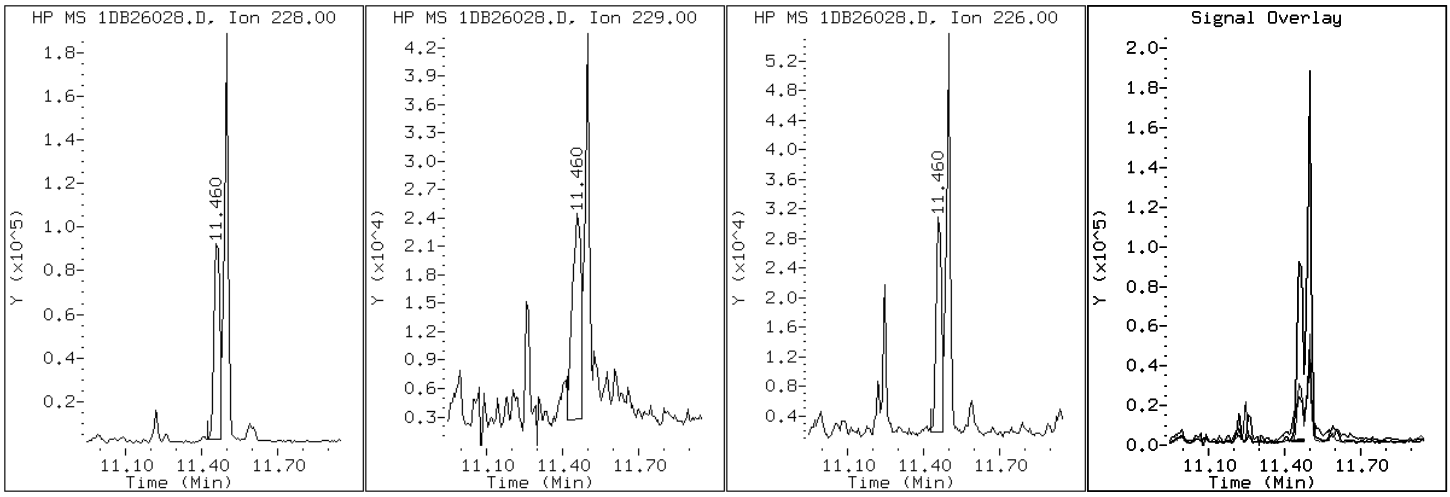
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

16 Benzo(a)anthracene



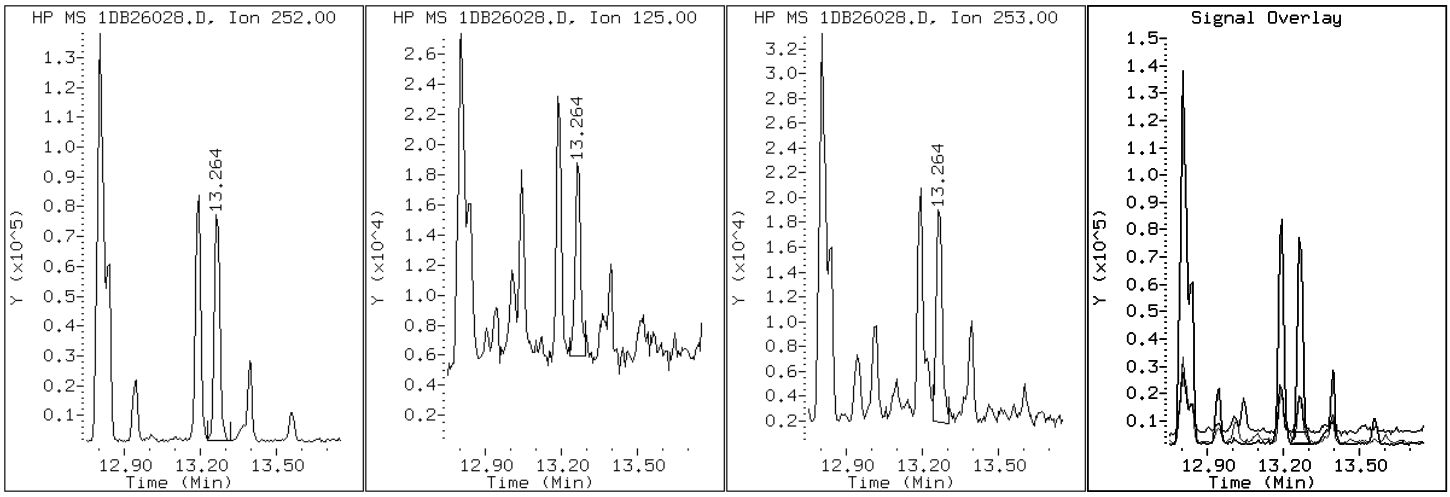
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

21 Benzo(a)pyrene



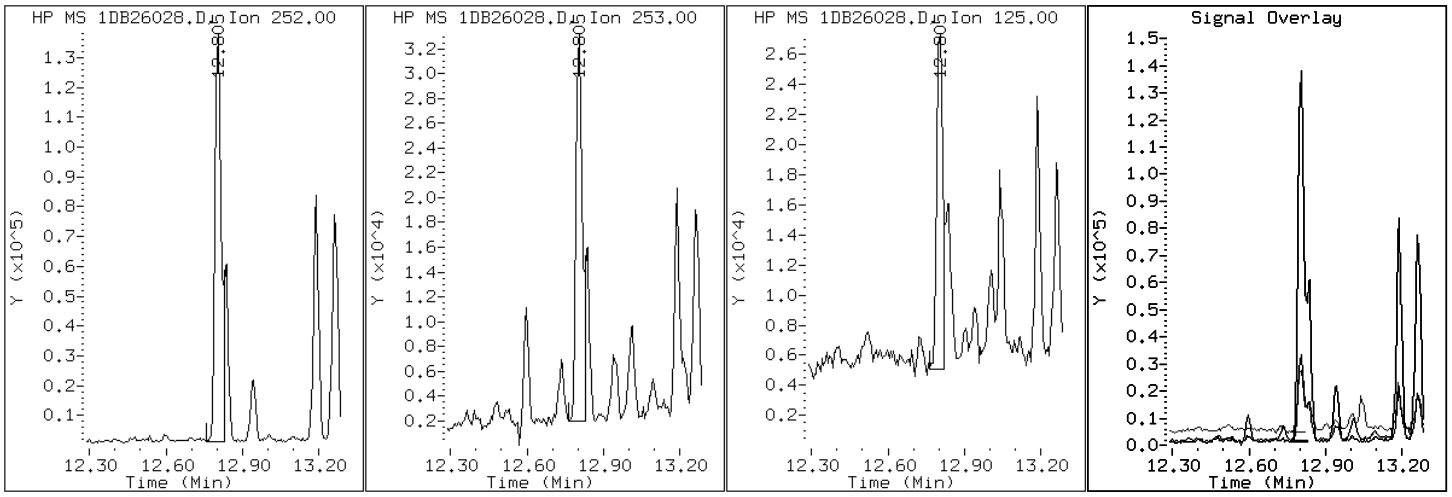
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

19 Benzo(b)fluoranthene



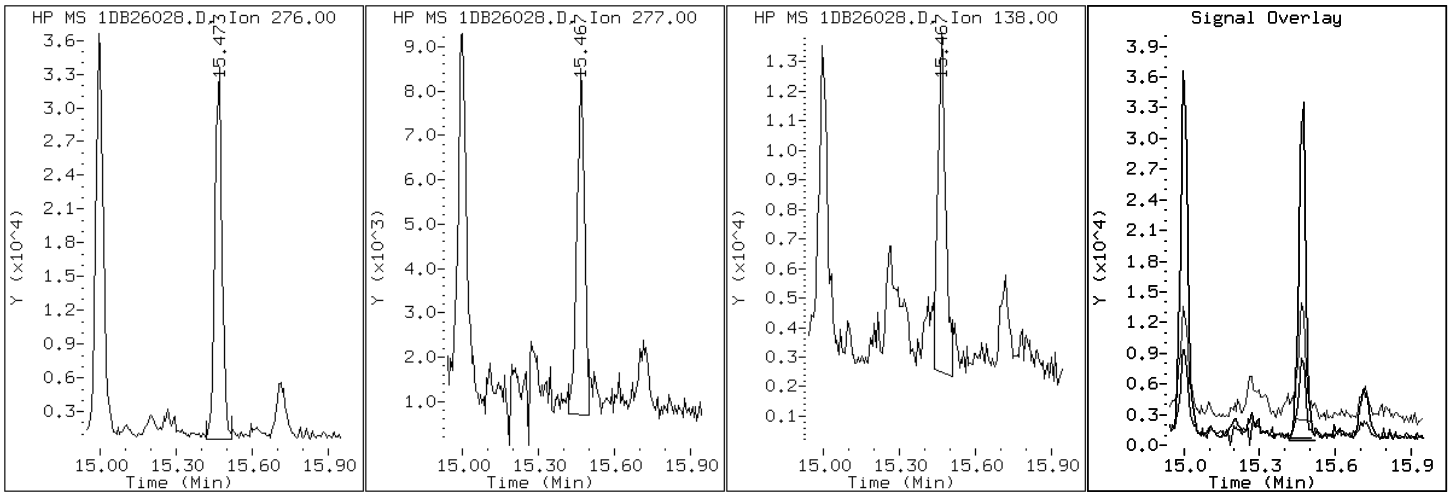
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

25 Benzo(g,h,i)perylene



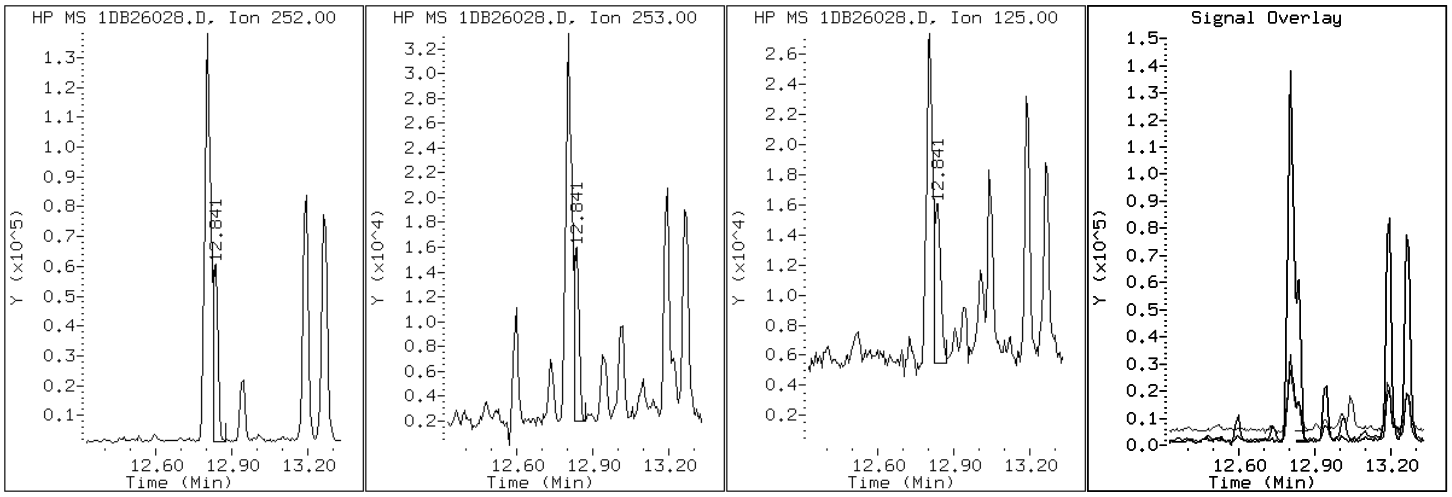
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

20 Benzo(k)fluoranthene



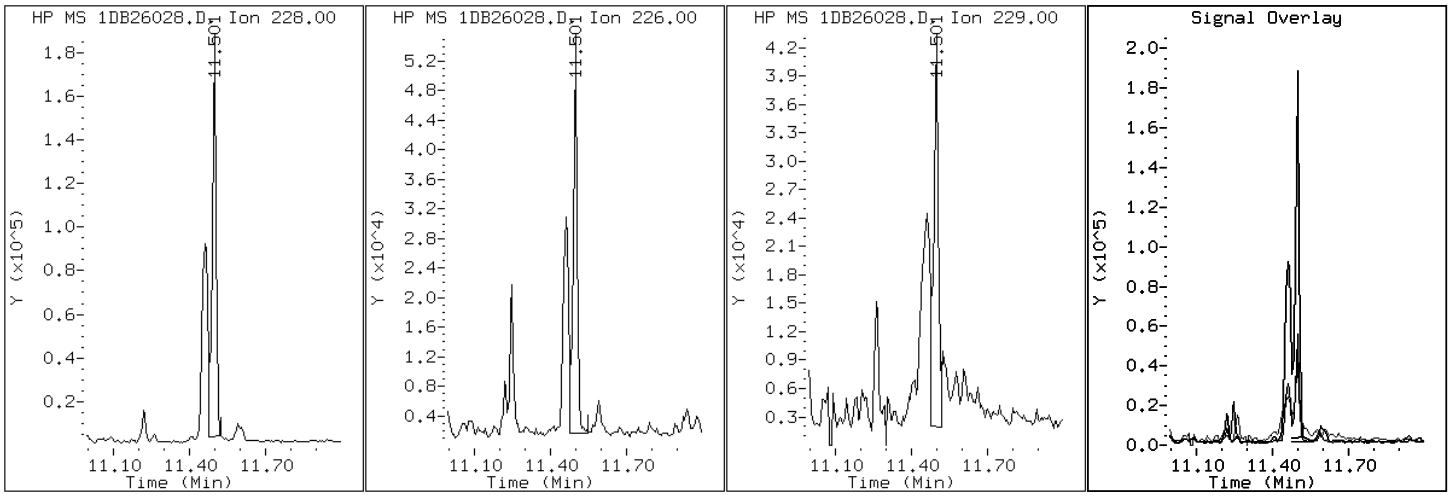
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

18 Chrysene



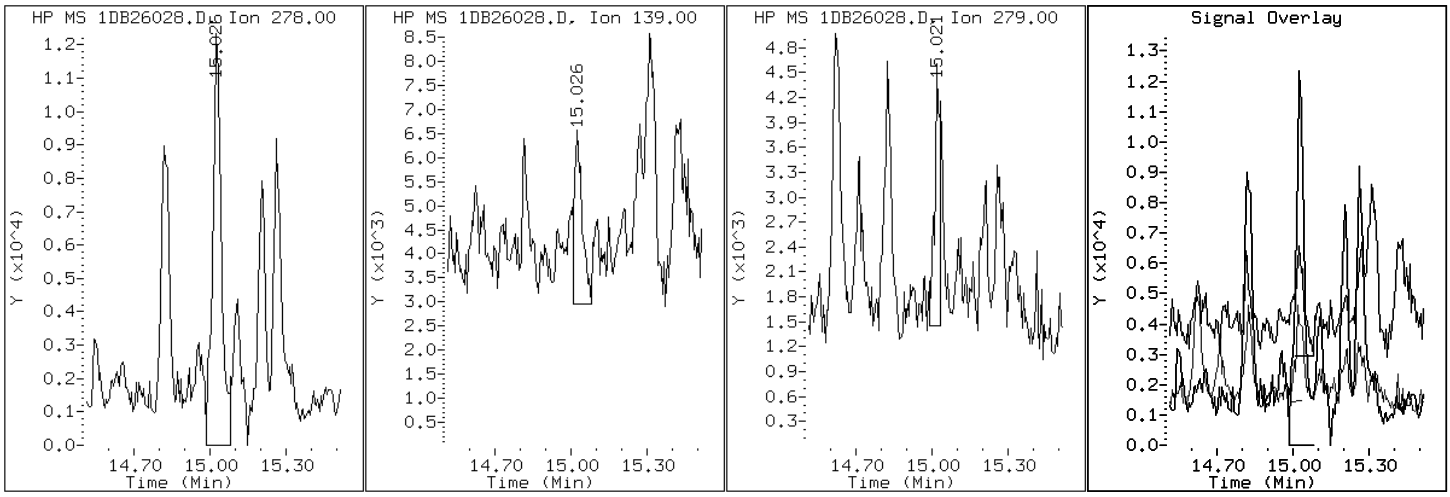
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

24 Dibenzo(a,h)anthracene



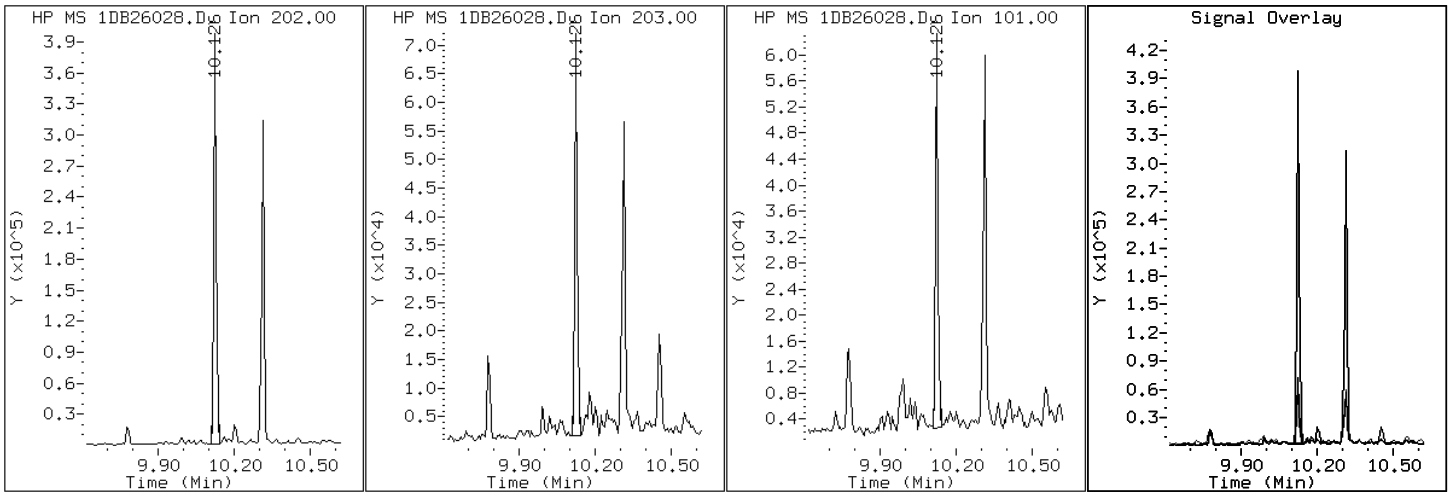
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

14 Fluoranthene



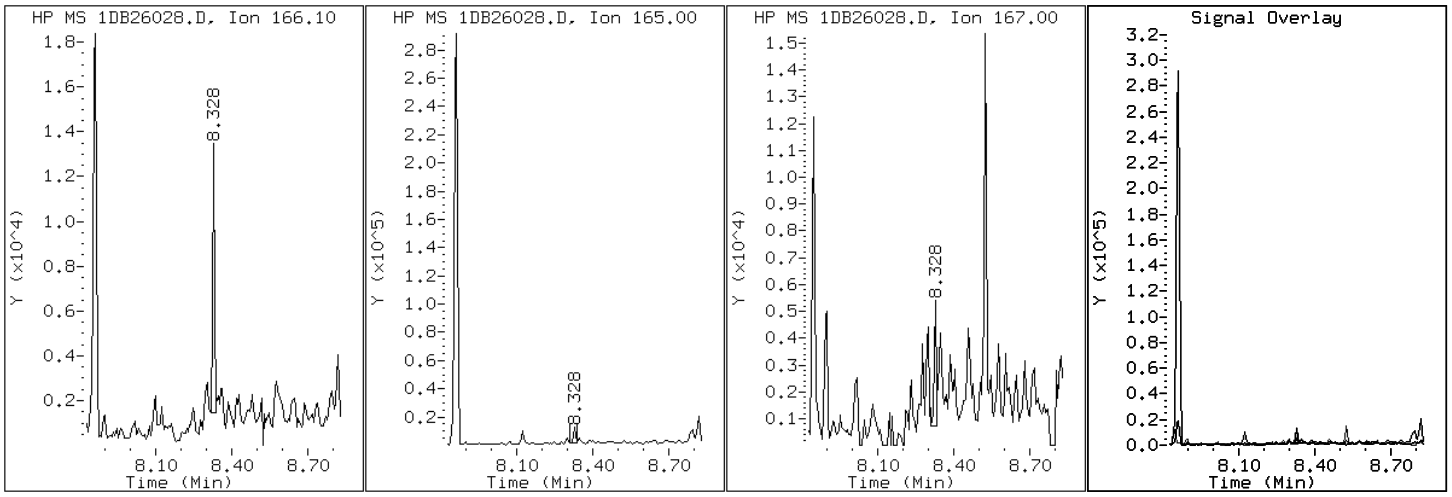
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

8 Fluorene



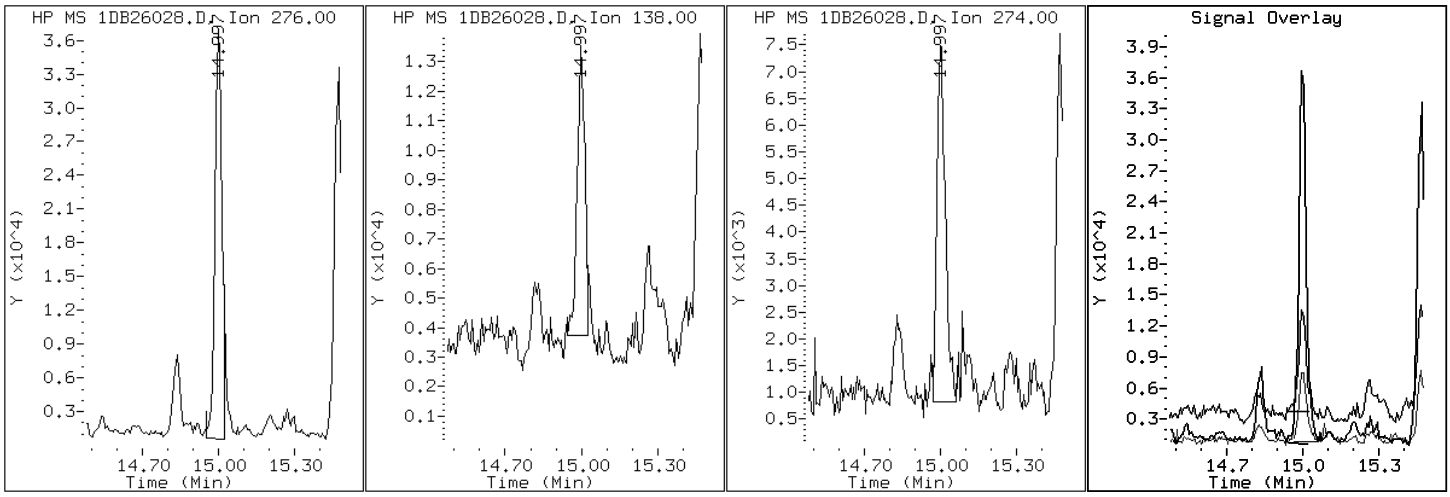
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

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



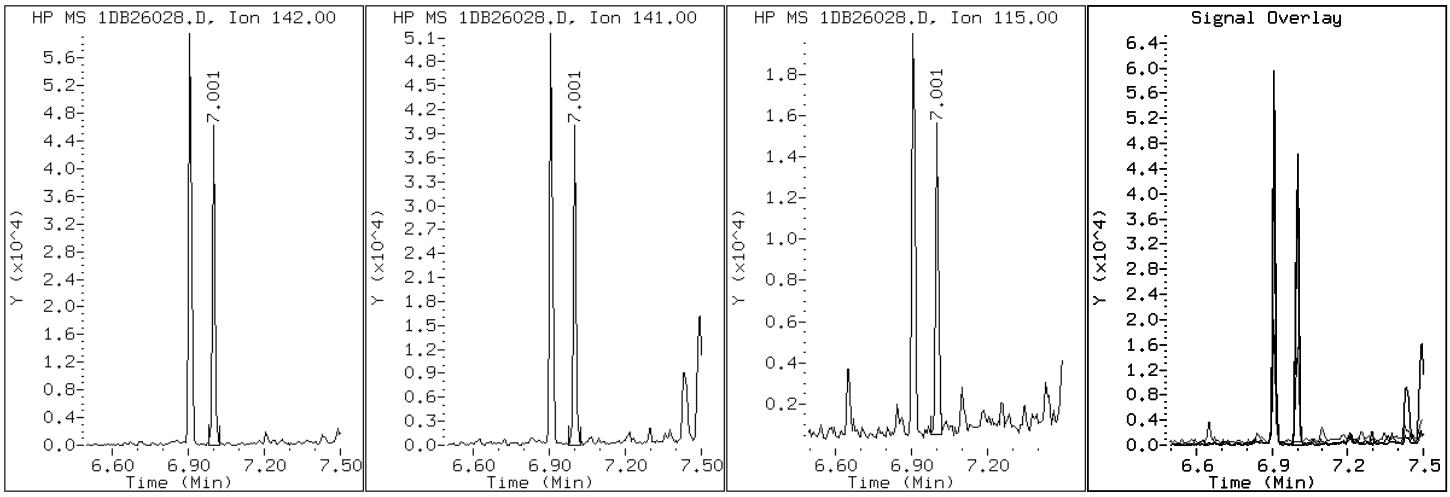
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

4 1-Methylnaphthalene



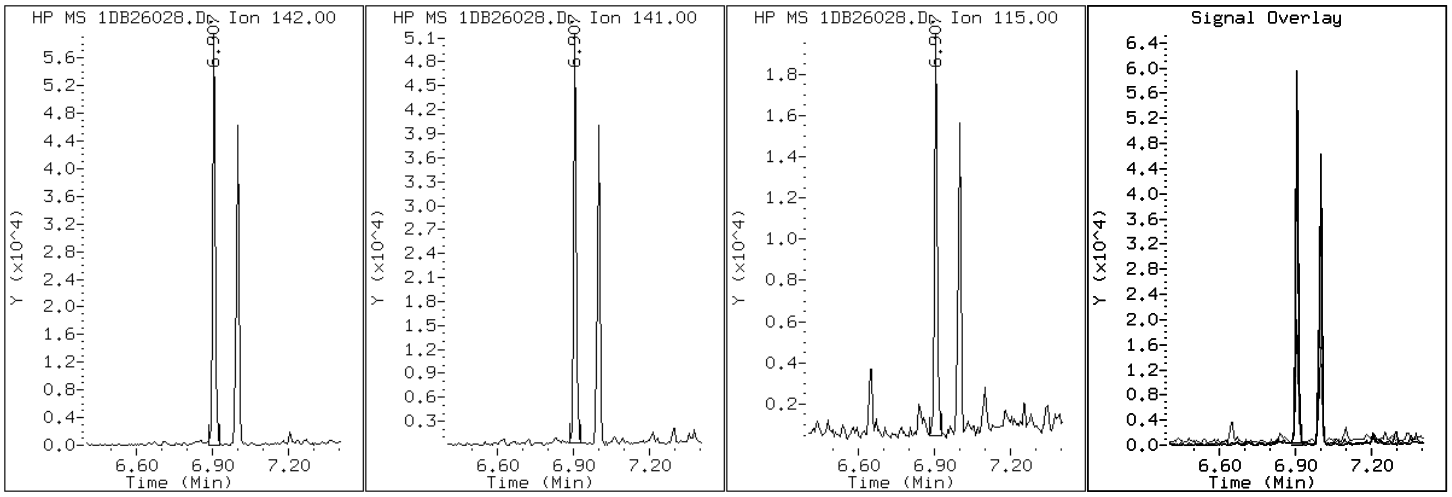
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

3 2-Methylnaphthalene



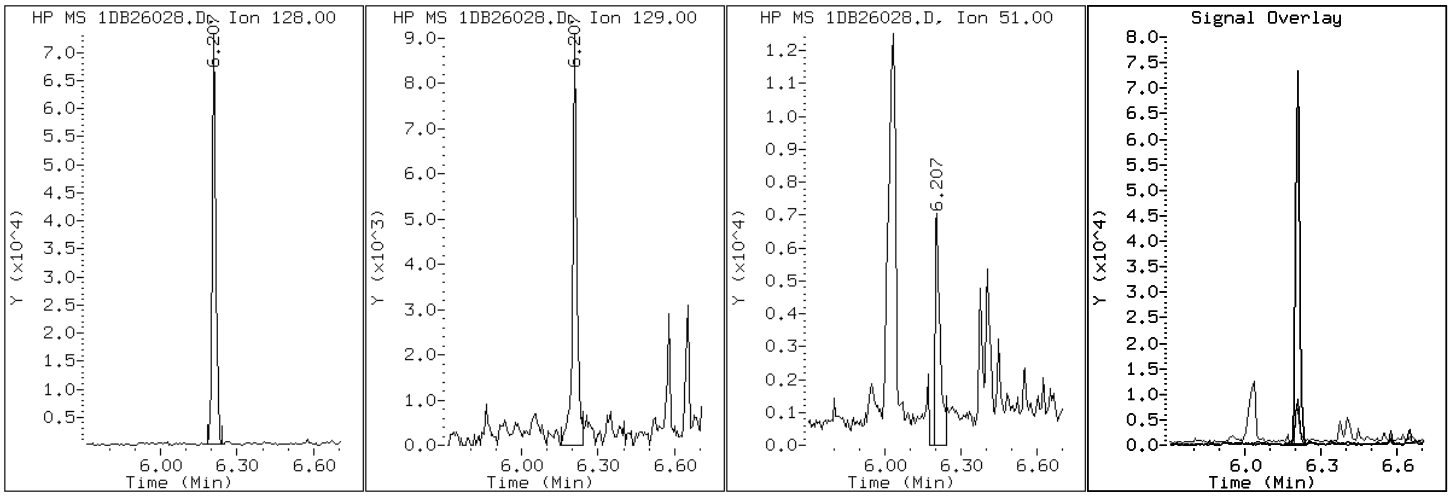
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

2 Naphthalene



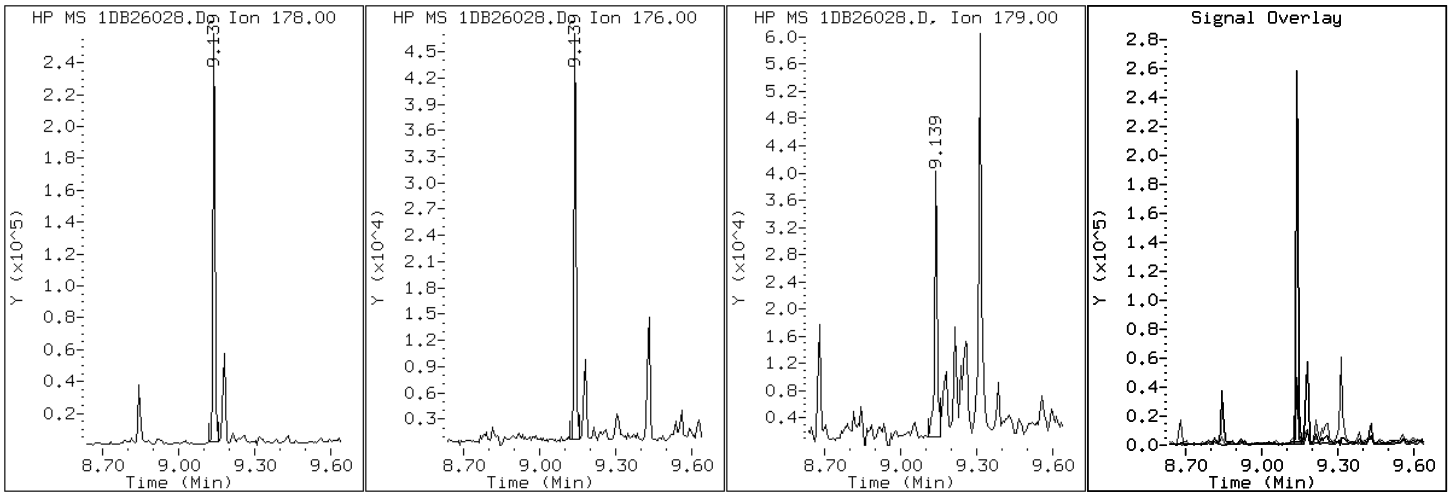
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

10 Phenanthrene



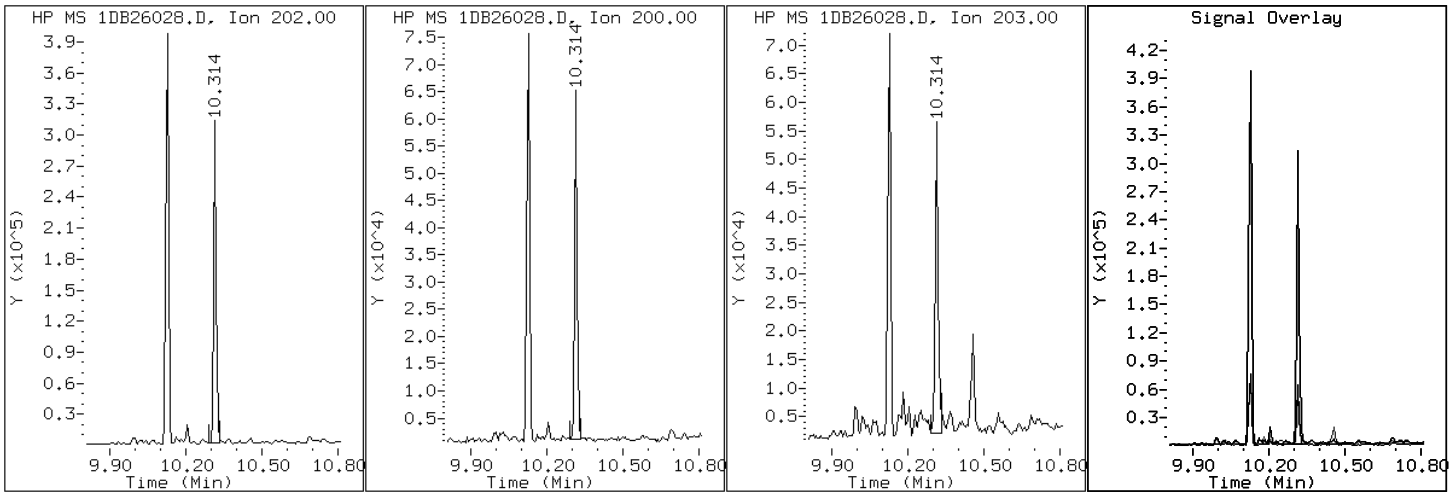
Data File: 1DB26028.D

Date: 26-FEB-2013 23:31

Client ID: FM0161III-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-90-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB26028.D
Inj. Date and Time: 26-FEB-2013 23:31
Instrument ID: BSMSD.i
Client ID: FM0161III-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/28/2013

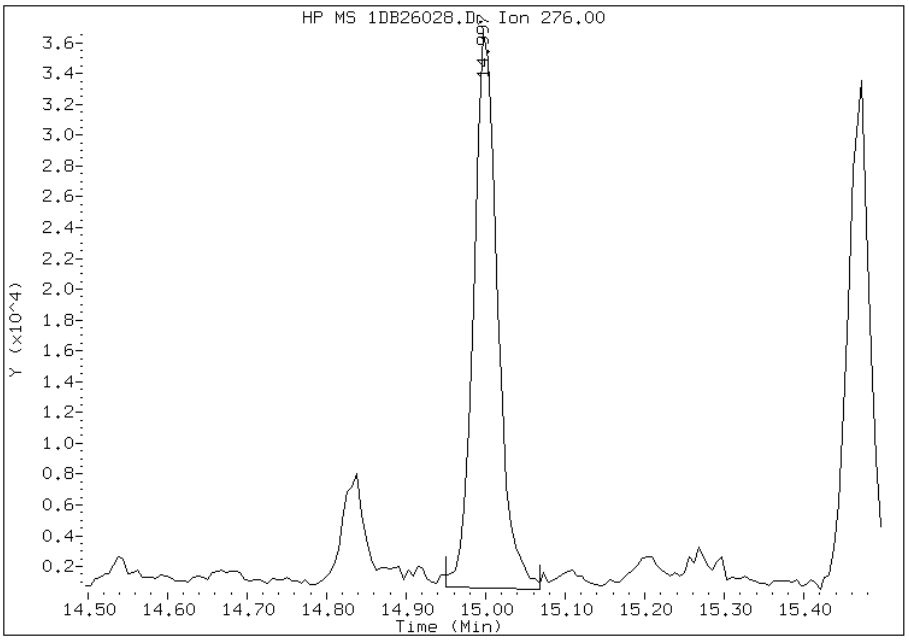
Processing Integration Results

RT: 15.00

Response: 75980

Amount: 1

Conc: 93



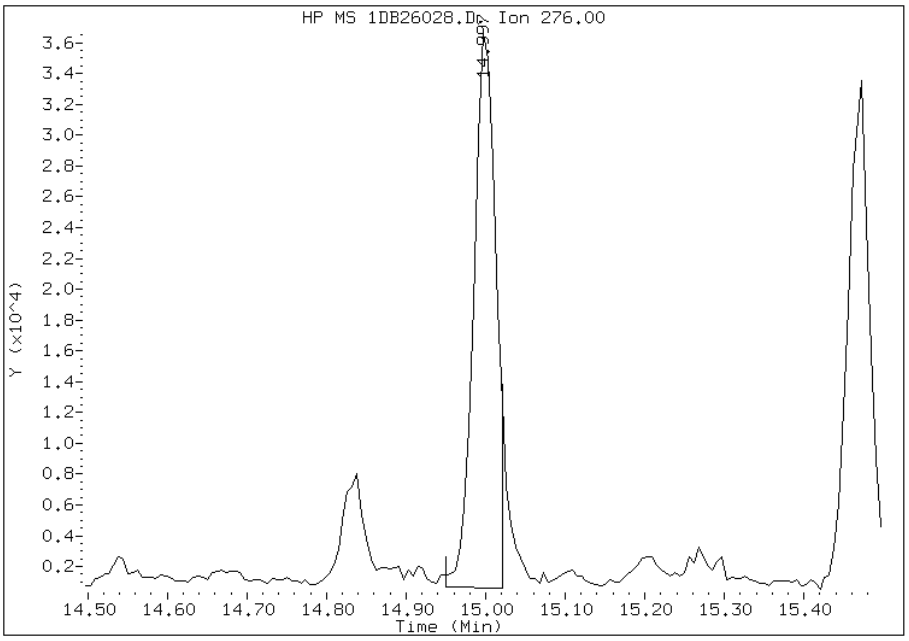
Manual Integration Results

RT: 15.00

Response: 69423

Amount: 1

Conc: 85



Manually Integrated By: cantins
Modification Date: 28-Feb-2013 10:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-5

SDG No.: 68087545-5

Client Sample ID: FM0161JJJ-CS | Lab Sample ID: 680-87545-91

Matrix: Solid | Lab File ID: 1DB26029.D

Analysis Method: 8270C LL | Date Collected: 02/15/2013 09:33

Extract. Method: 3546 | Date Extracted: 02/25/2013 06:16

Sample wt/vol: 14.93(g) | Date Analyzed: 02/26/2013 23:54

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

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

% Moisture: 28.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134863 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	21	J	56	7.0
120-12-7	Anthracene	30		12	5.9
56-55-3	Benzo[a]anthracene	120		11	5.5
50-32-8	Benzo[a]pyrene	120		15	7.3
205-99-2	Benzo[b]fluoranthene	230		17	8.6
191-24-2	Benzo[g,h,i]perylene	62		28	6.2
207-08-9	Benzo[k]fluoranthene	67		11	5.1
218-01-9	Chrysene	160		13	6.3
53-70-3	Dibenz(a,h)anthracene	22	J	28	5.8
206-44-0	Fluoranthene	200		28	5.6
86-73-7	Fluorene	9.5	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	56		28	10
90-12-0	1-Methylnaphthalene	69		56	6.2
91-57-6	2-Methylnaphthalene	90		56	10
91-20-3	Naphthalene	94		56	6.2
85-01-8	Phenanthrene	140	B	11	5.5
129-00-0	Pyrene	160		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	94		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26029.D
Lab Smp Id: 680-87545-A-91-A Client Smp ID: FM0161JJJ-CS
Inj Date : 26-FEB-2013 23:54
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-91-A
Misc Info : 680-87545-A-91-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\dFASTPAHi.m
Meth Date : 26-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 29
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	28.671	% 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	6.184	(1.000)	3358976	40.0000	
* 6 Acenaphthene-d10	164	7.864	7.859	(1.000)	2028339	40.0000	
* 9 Phenanthrene-d10	188	9.127	9.116	(1.000)	3275615	40.0000	
$ 13 o-Terphenyl	230	9.432	9.427	(1.033)	474536	9.36815	880
* 17 Chrysene-d12	240	11.483	11.466	(1.000)	3253881	40.0000	
* 22 Perylene-d12	264	13.375	13.352	(1.000)	2845271	40.0000	
2 Naphthalene	128	6.207	6.208	(1.003)	90377	1.00581	94
3 2-Methylnaphthalene	142	6.906	6.907	(1.116)	54651	0.95480	90
4 1-Methylnaphthalene	142	7.000	7.001	(1.131)	39441	0.73584	69
5 Acenaphthylene	152	7.734	7.729	(0.984)	20202	0.22591	21
8 Fluorene	166	8.328	8.329	(1.059)	6412	0.10065	9.4
10 Phenanthrene	178	9.144	9.139	(1.002)	142203	1.52933	140
11 Anthracene	178	9.180	9.181	(1.006)	29311	0.31506	30
12 Carbazole	167	9.321	9.316	(1.021)	17750	0.21343	20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.126	10.121	(1.109)	209681	2.16087	200
15 Pyrene	202	10.314	10.309	(0.898)	175238	1.73619	160
16 Benzo(a)anthracene	228	11.465	11.448	(0.998)	117143	1.31497	120
18 Chrysene	228	11.500	11.495	(1.002)	155837	1.69443	160
19 Benzo(b)fluoranthene	252	12.805	12.788	(0.957)	182267	2.48874	230
20 Benzo(k)fluoranthene	252	12.834	12.829	(0.960)	54358	0.70888	66
21 Benzo(a)pyrene	252	13.269	13.252	(0.992)	90344	1.24658	120
23 Indeno(1,2,3-cd)pyrene	276	14.996	14.980	(1.121)	45929	0.59384	56(M)
24 Dibenzo(a,h)anthracene	278	15.026	15.015	(1.123)	16404	0.22966	22
25 Benzo(g,h,i)perylene	276	15.466	15.450	(1.156)	48401	0.65636	62

QC Flag Legend

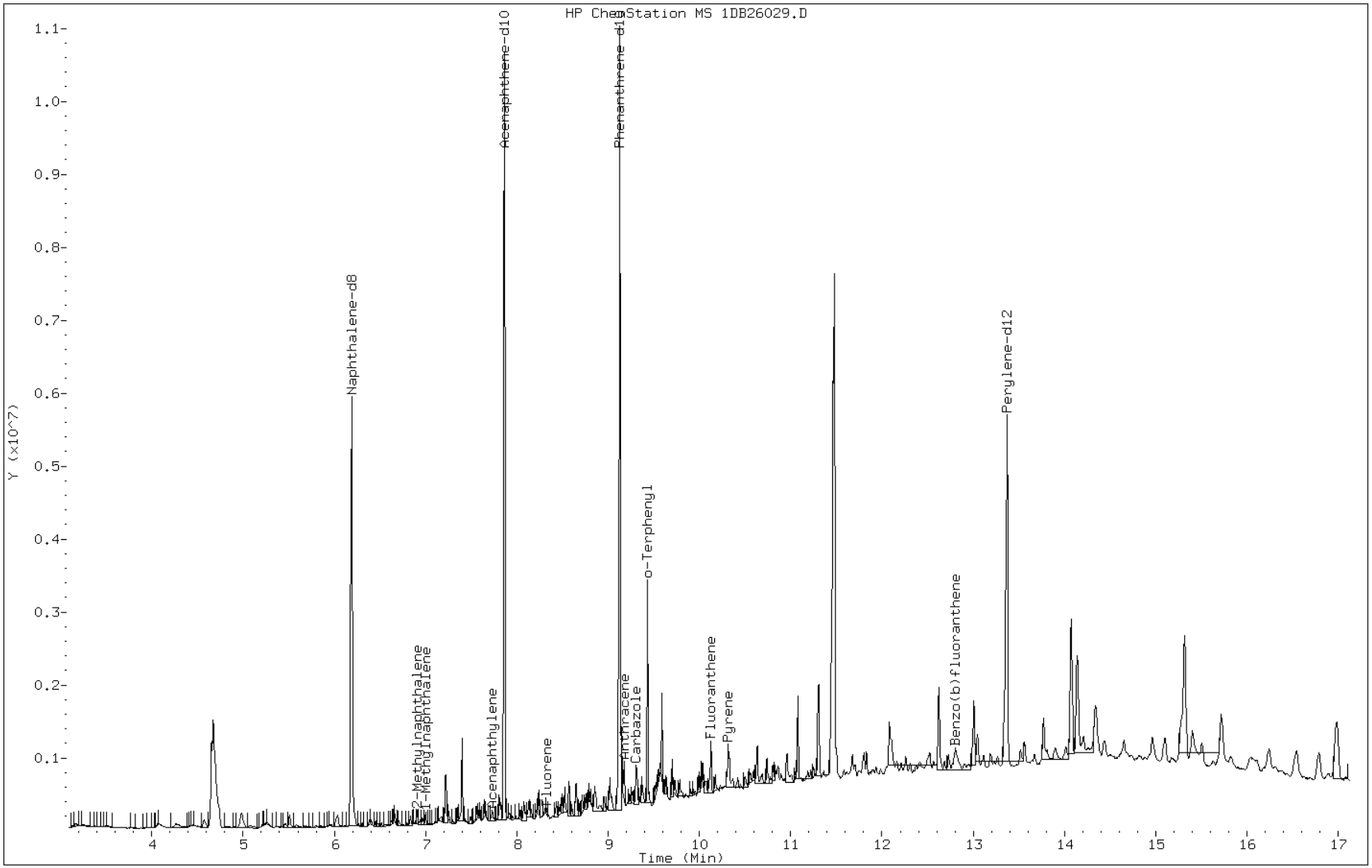
M - Compound response manually integrated.

Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC



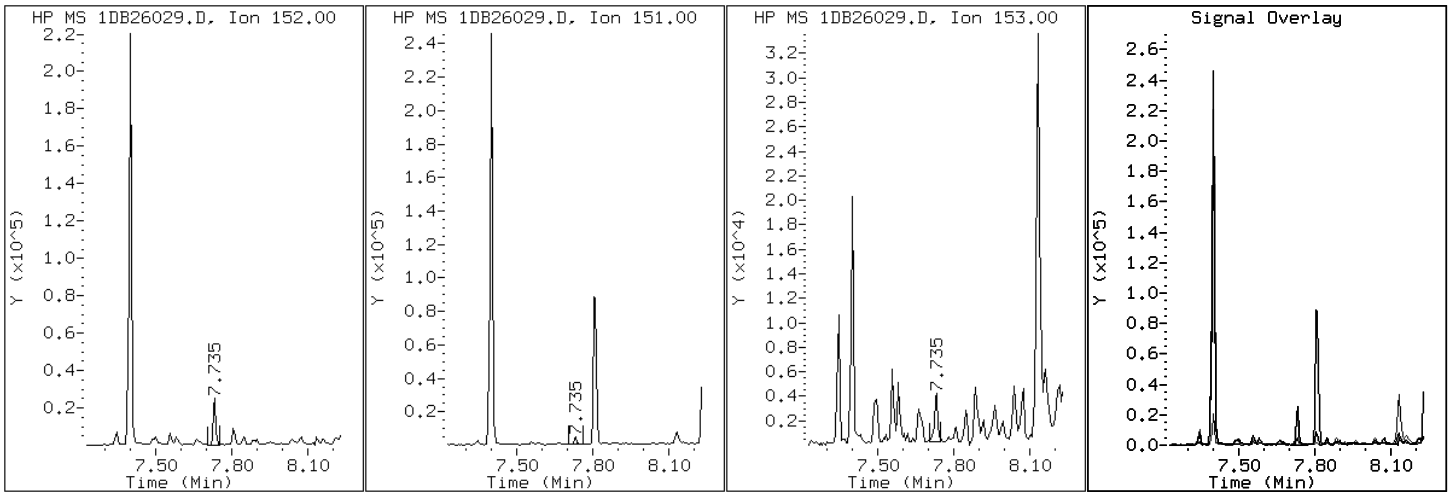
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

5 Acenaphthylene



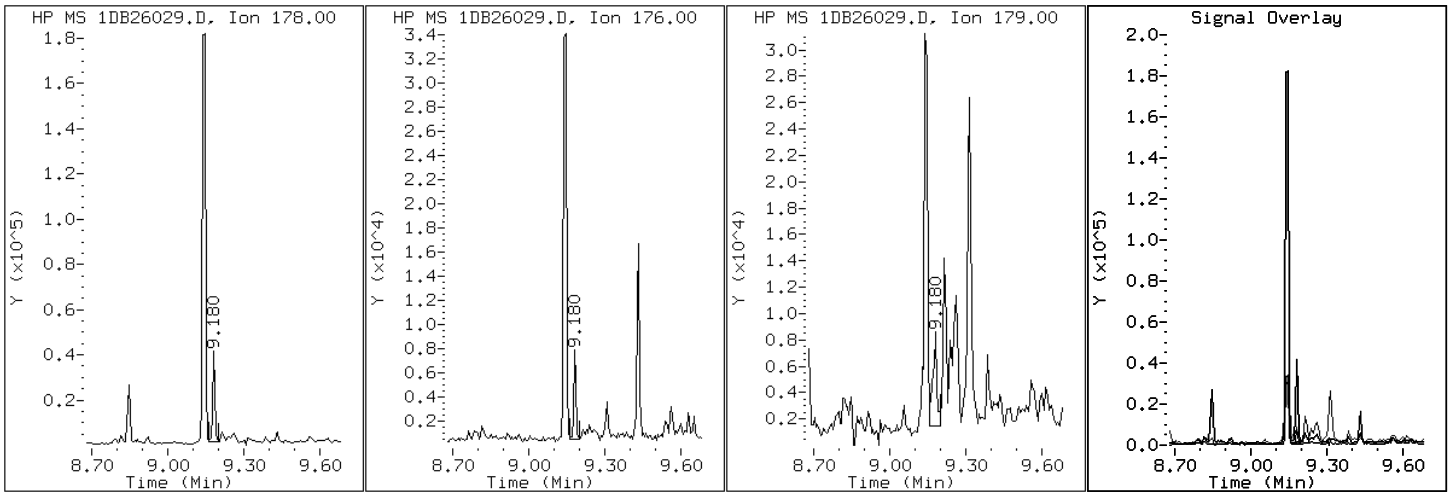
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

11 Anthracene



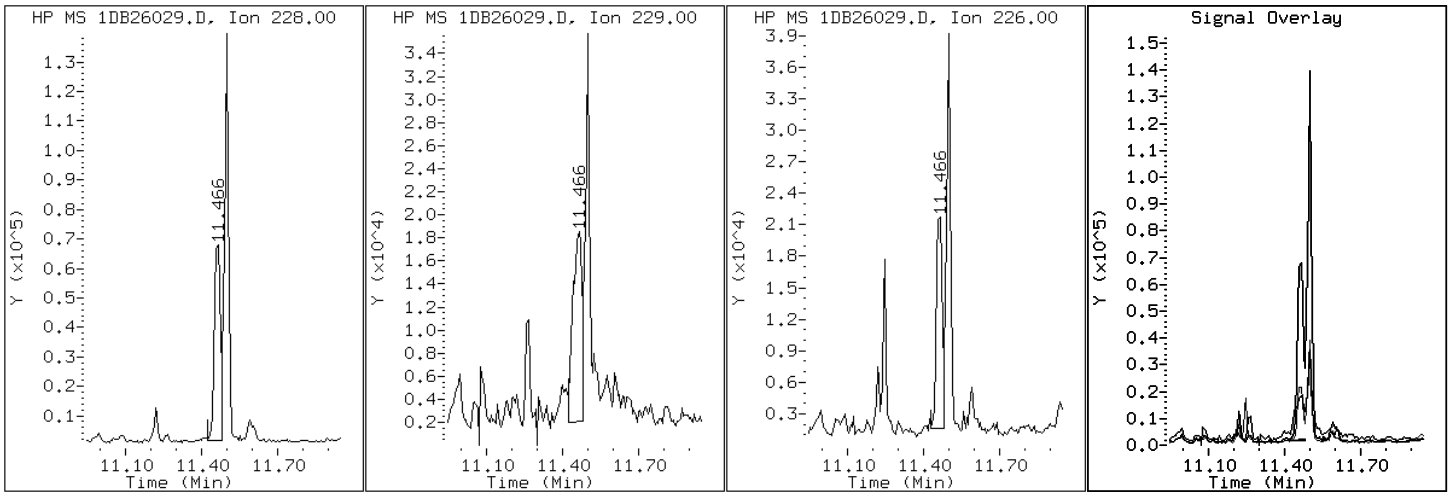
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

16 Benzo(a)anthracene



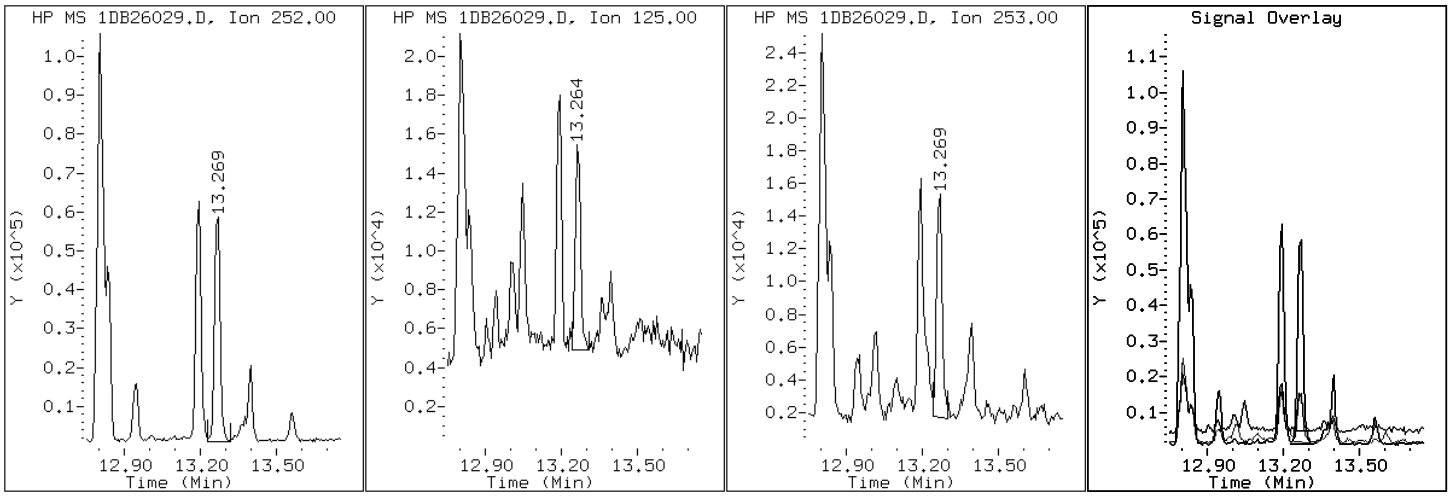
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

21 Benzo(a)pyrene



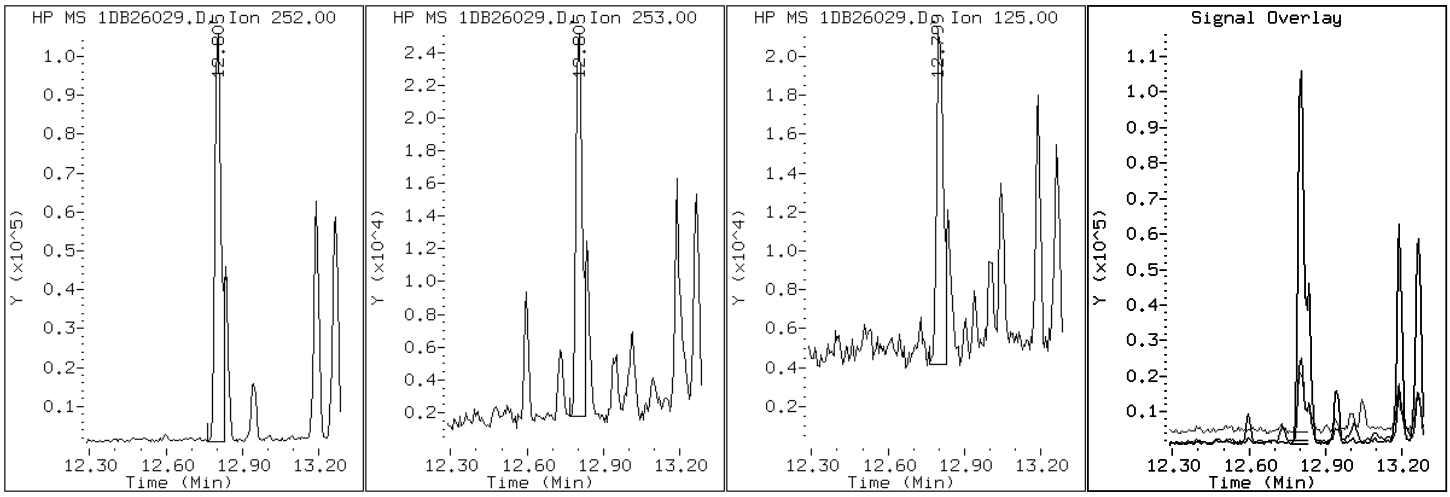
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

19 Benzo(b)fluoranthene



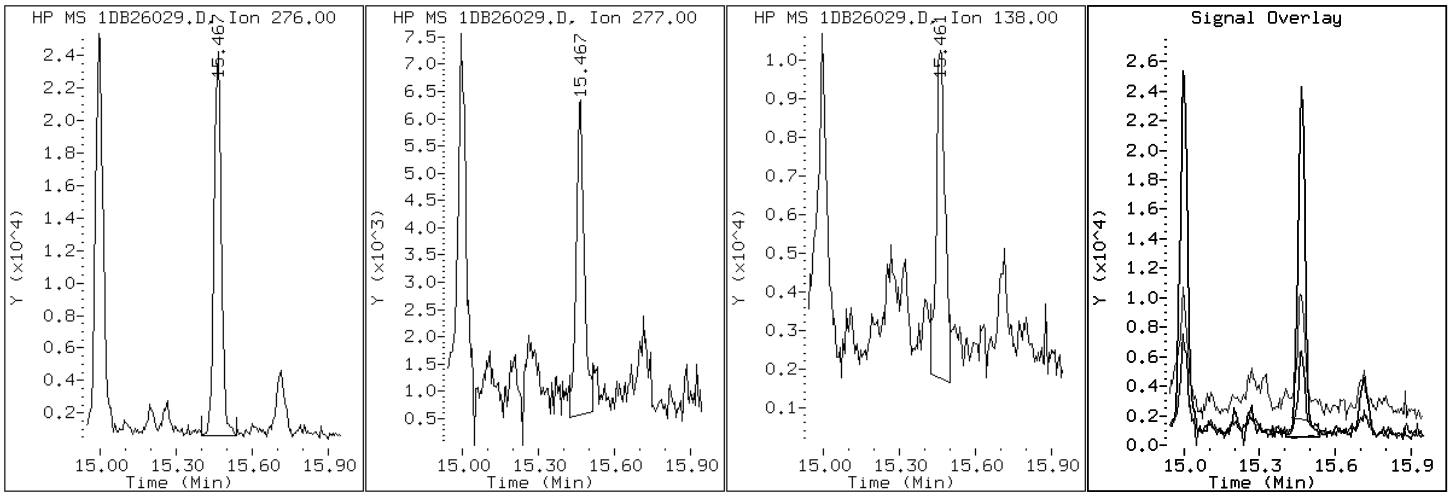
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

25 Benzo(g,h,i)perylene



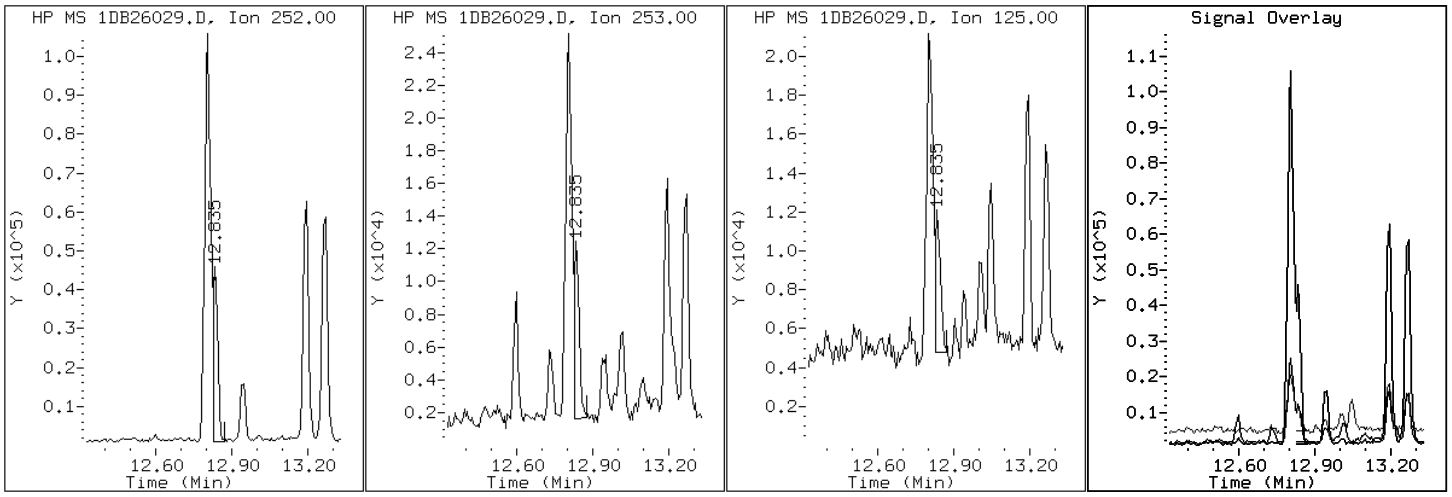
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

20 Benzo(k)fluoranthene



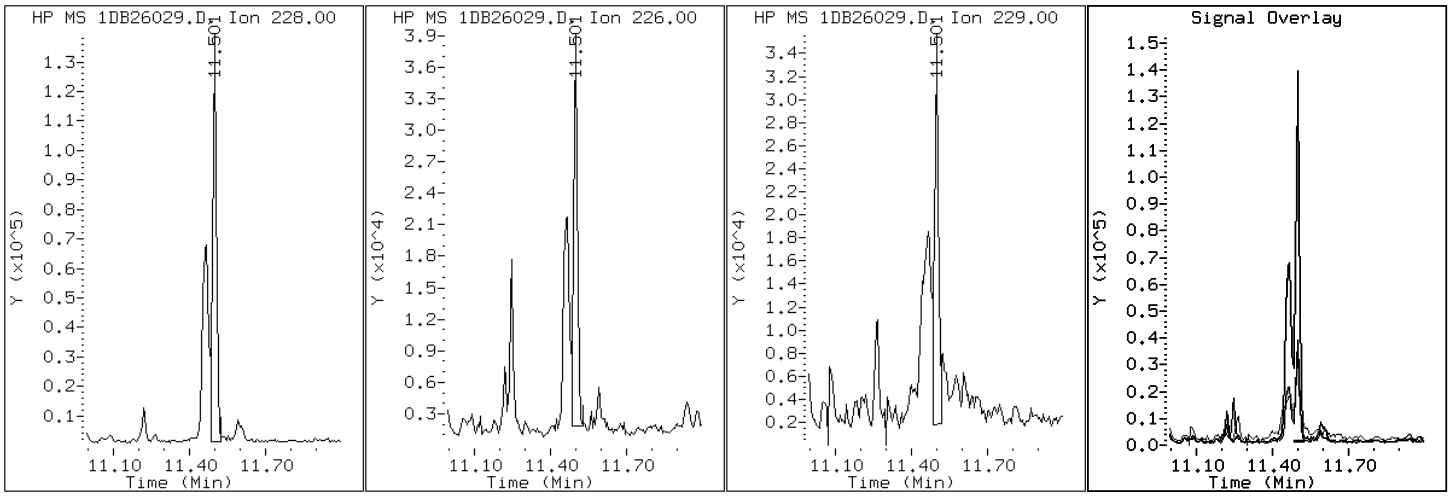
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

18 Chrysene



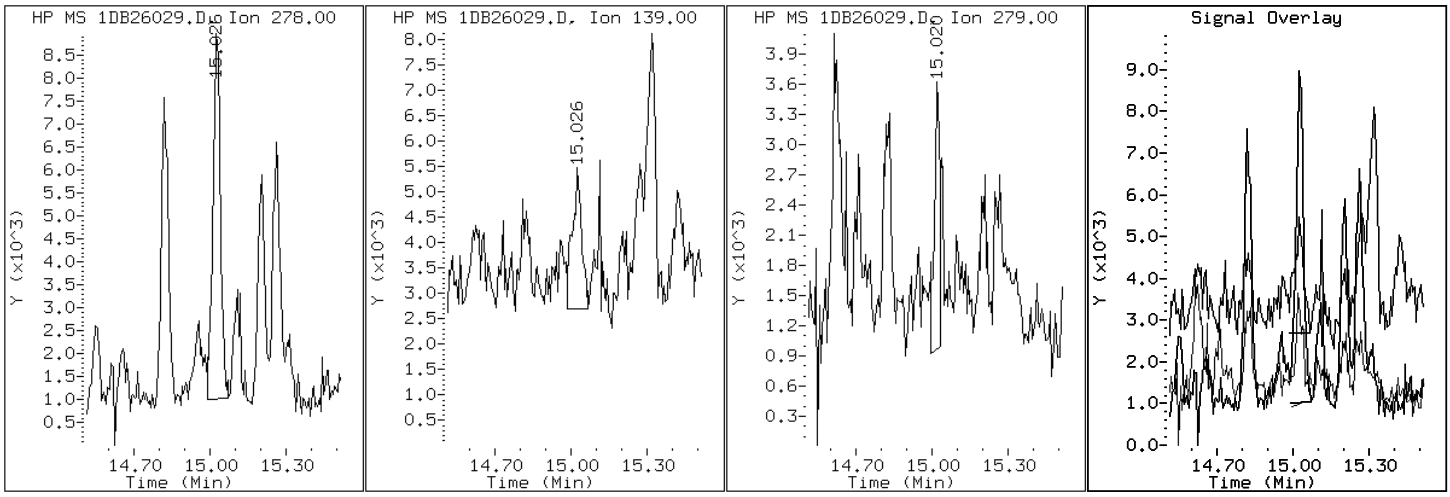
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

24 Dibenzo(a,h)anthracene



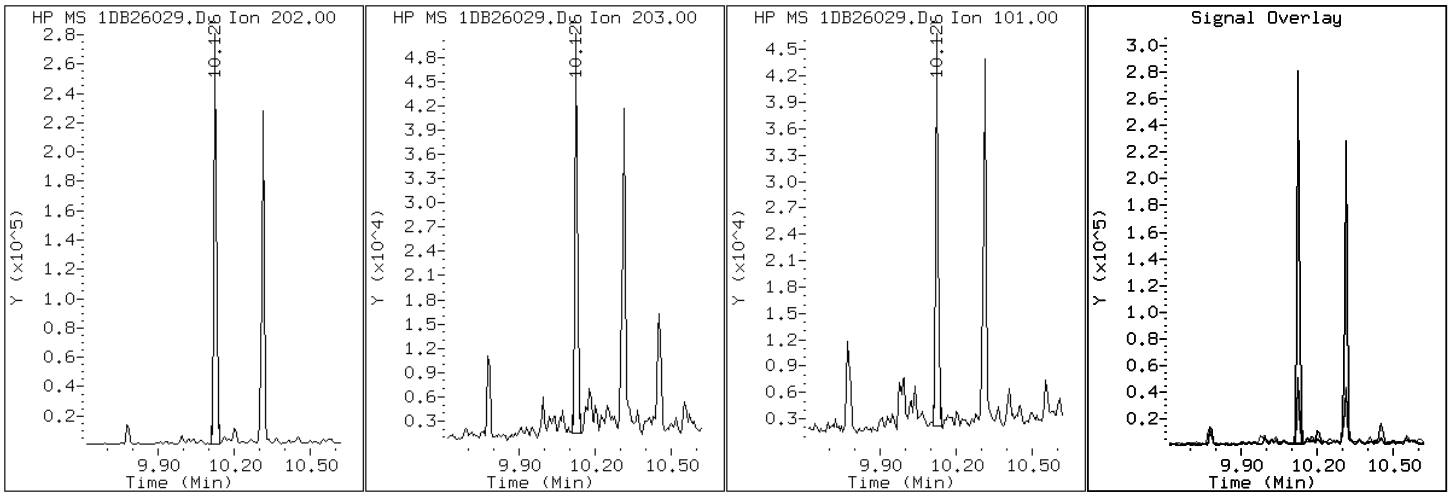
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

14 Fluoranthene



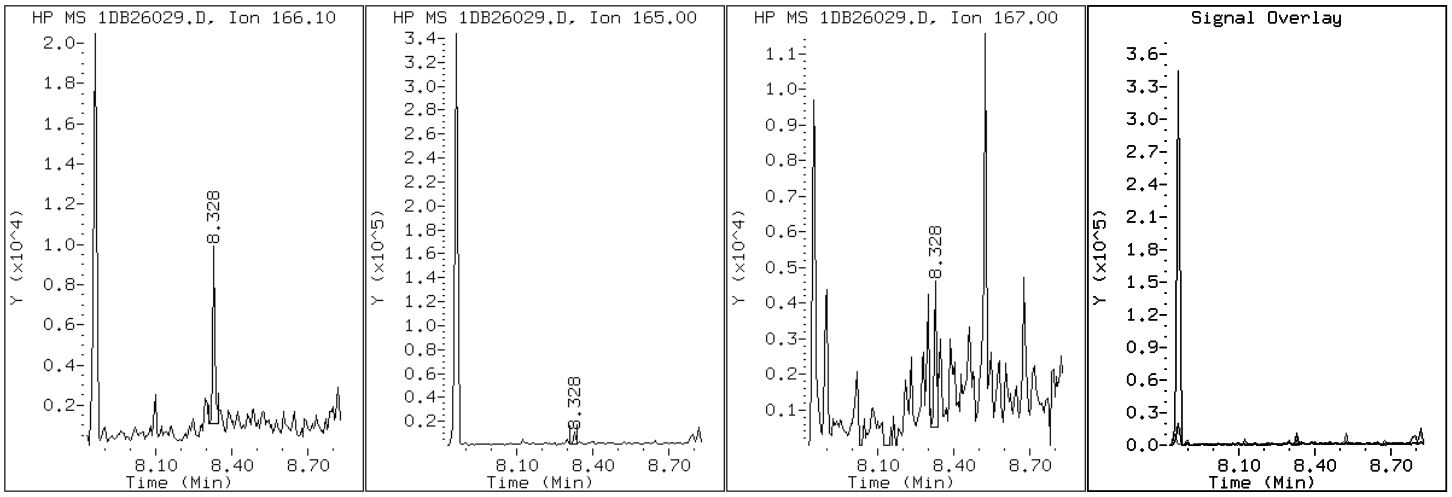
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

8 Fluorene



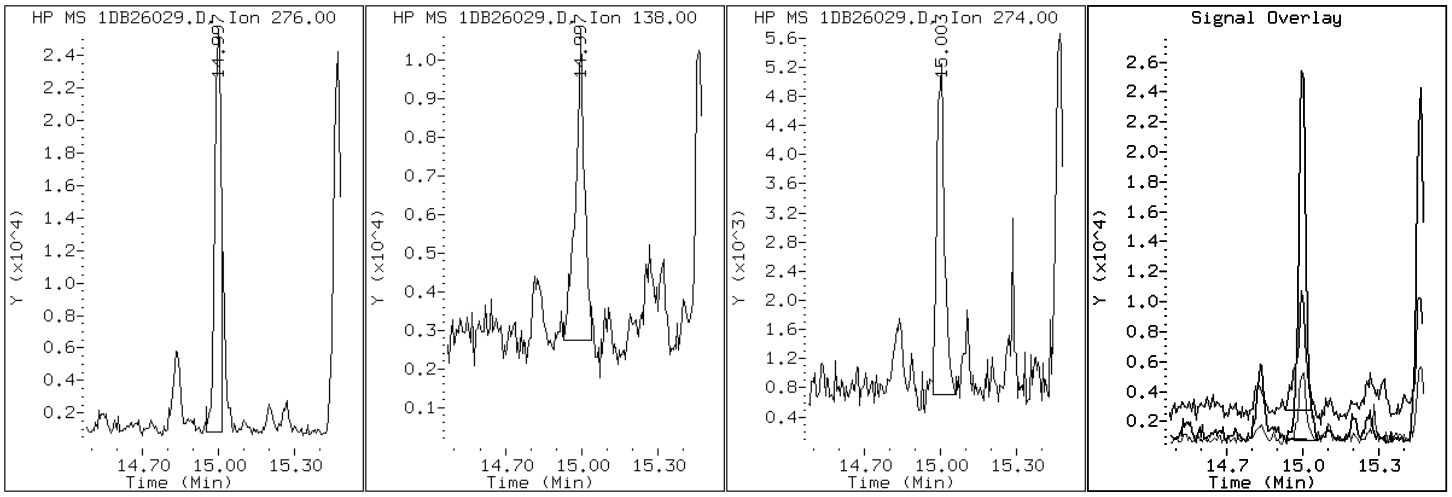
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

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



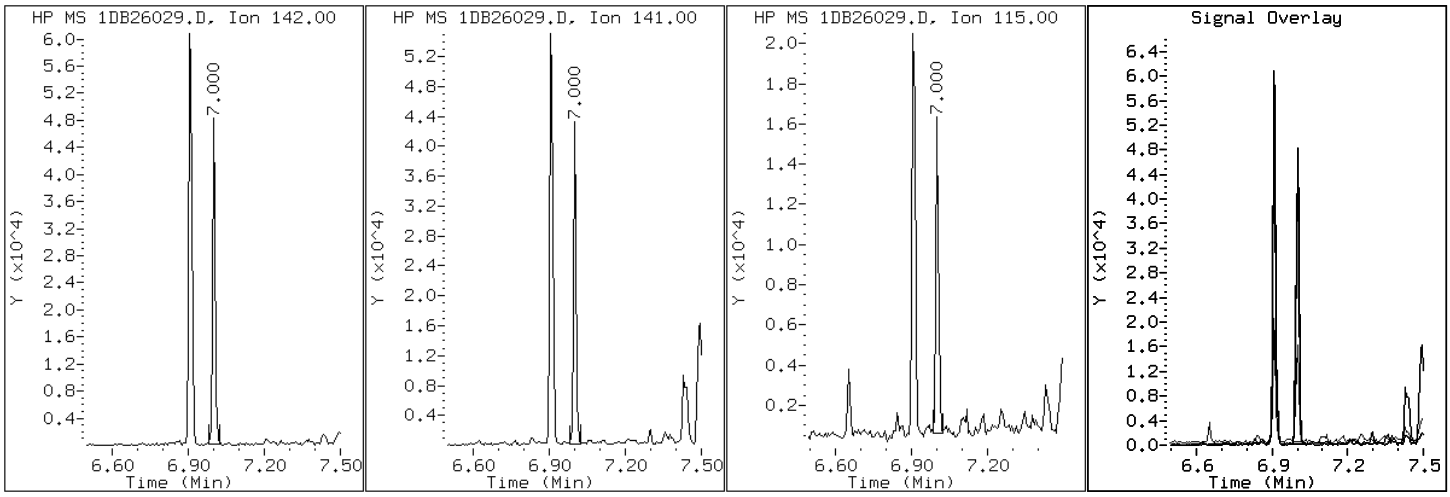
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

4 1-Methylnaphthalene



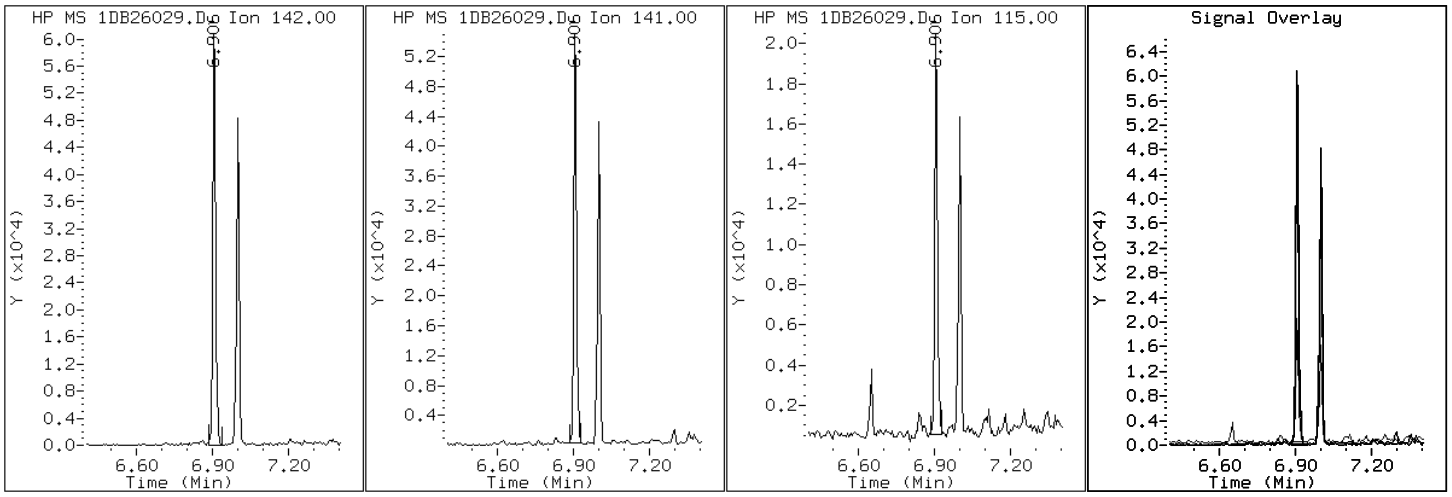
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

3 2-Methylnaphthalene



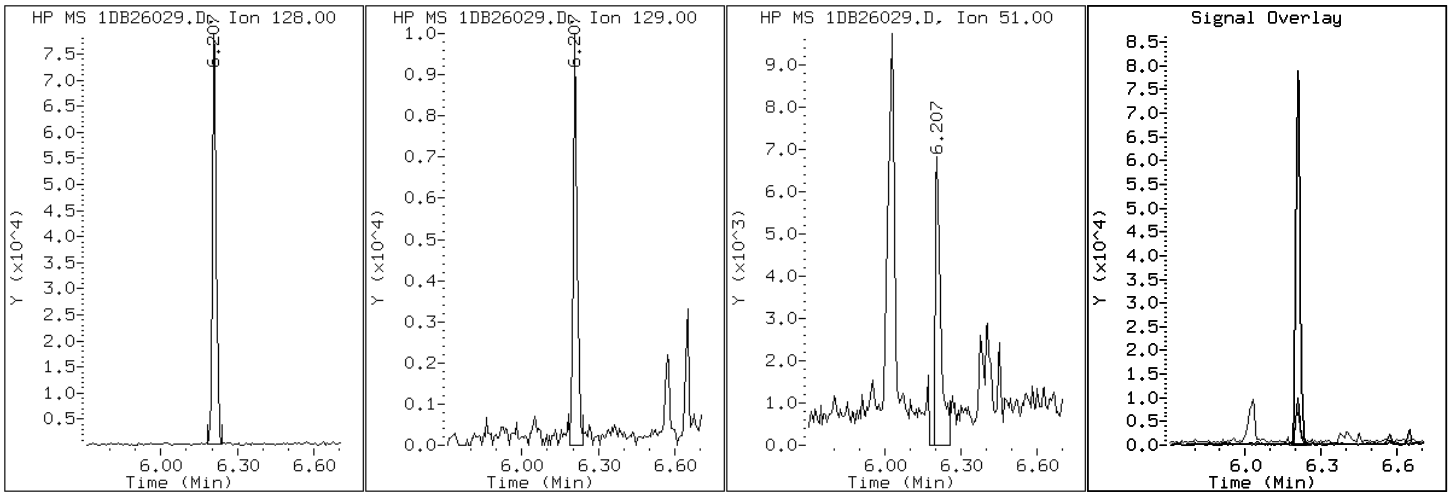
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

2 Naphthalene



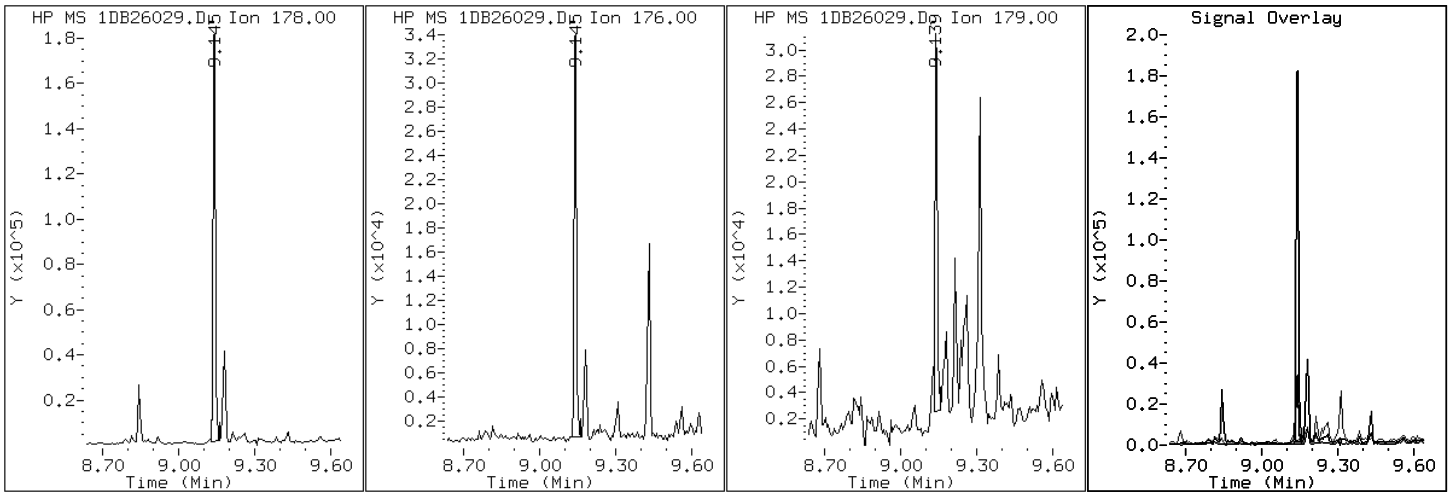
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

10 Phenanthrene



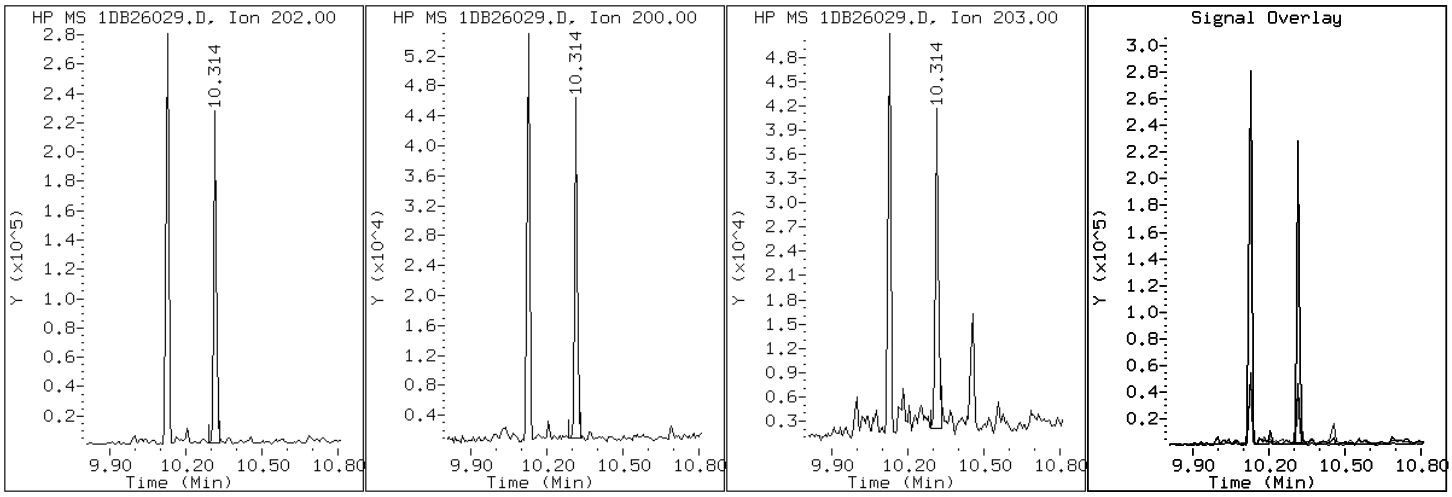
Data File: 1DB26029.D

Date: 26-FEB-2013 23:54

Client ID: FM0161JJJ-CS Instrument: BSMSD.i

Sample Info: 680-87545-A-91-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB26029.D
Inj. Date and Time: 26-FEB-2013 23:54
Instrument ID: BSMSD.i
Client ID: FM0161JJJ-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/28/2013

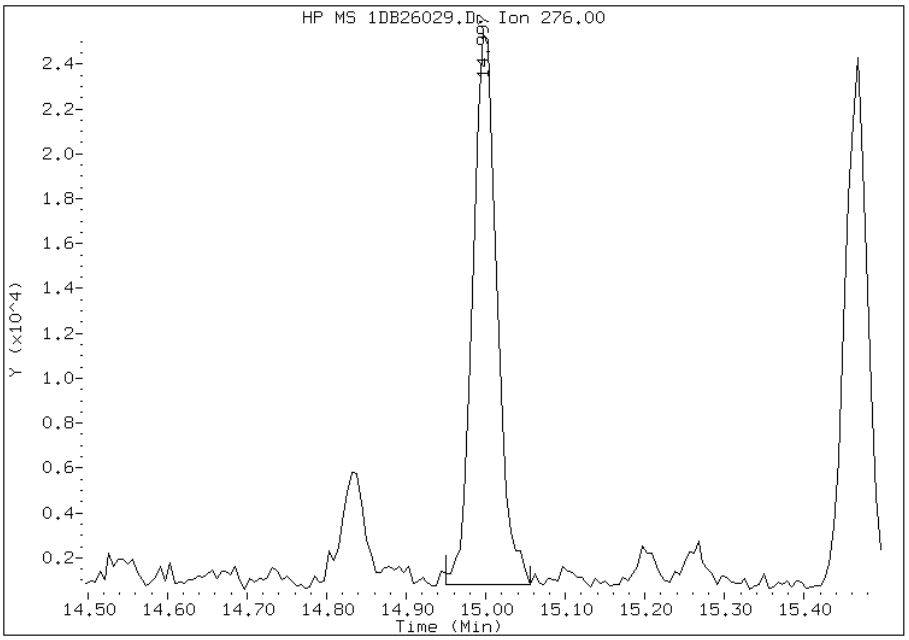
Processing Integration Results

RT: 15.00

Response: 52038

Amount: 1

Conc: 63



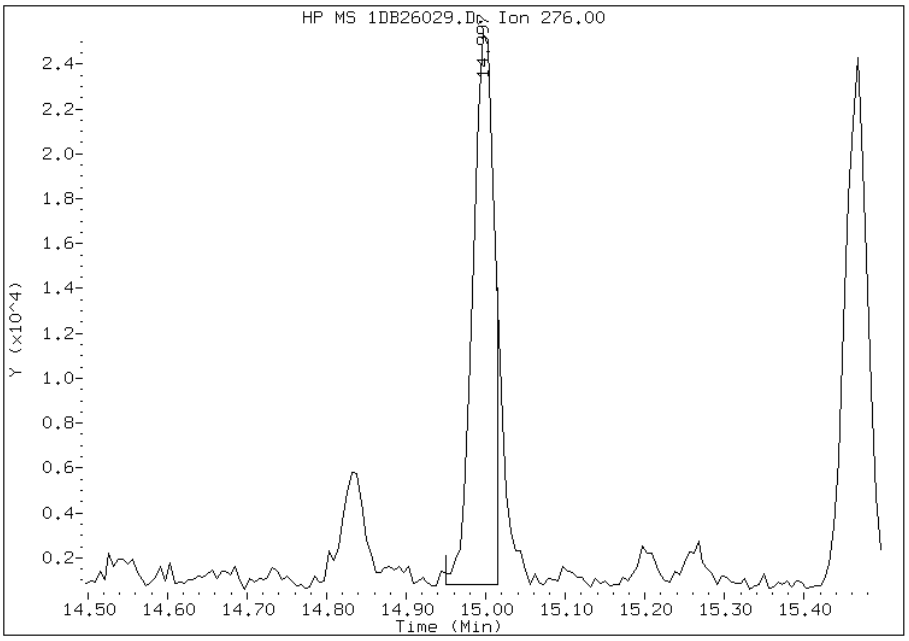
Manual Integration Results

RT: 15.00

Response: 45929

Amount: 1

Conc: 56



Manually Integrated By: cantins
Modification Date: 28-Feb-2013 10:54
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-5 Analy Batch No.: 134776

SDG No.: 68087545-5

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9712 1.0467	1.0104 1.0669	1.0471	1.0871	1.0600	Ave		1.0414			0.0000	3.7		15.0			
2-Methylnaphthalene	0.7372 0.6936	0.6277 0.6981	0.6498	0.7330	0.7230	Ave		0.6946			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5602 0.6374	0.5666 0.6603	0.6541	0.6977	0.6523	Ave		0.6326			0.0000	8.0		15.0			
Acenaphthylene	1.6507 1.6289	1.4259 1.6887	1.5782	1.6615	1.6547	Ave		1.6127			0.0000	5.5		15.0			
Acenaphthene	1.1992 0.9520	0.9269 0.9711	1.0052	0.9958	0.9664	Ave		1.0024			0.0000	9.0		15.0			
Fluorene	1.2003 1.2968	1.2155 1.3216	1.2084	1.3213	1.3097	Ave		1.2677			0.0000	4.5		15.0			
Phenanthrene	1.3236 1.1268	1.1829 1.1367	1.1369	1.0982	1.0913	Ave		1.1566			0.0000	6.9		15.0			
Anthracene	1.1830 1.1477	1.0495 1.1690	1.1368	1.1486	1.0836	Ave		1.1312			0.0000	4.2		15.0			
Carbazole	1.1097 0.9866	0.9191 1.0122	0.9992	1.0253	0.9866	Ave		1.0055			0.0000	5.7		15.0			
Fluoranthene	1.3263 1.3062	1.1270 1.2838	1.2811	1.2806	1.2615	Ave		1.2666			0.0000	5.1		15.0			
Pyrene	1.0694 1.0644	1.0908 1.1171	1.0556	1.0637	1.0636	Ave		1.0749			0.0000	2.0		15.0			
Benzo[a]anthracene	1.5187 1.0791	1.1715 1.0797	1.0862	1.0840	1.0620	Ave		1.1545			0.0000	14.3		15.0			
Chrysene	1.3833 1.1146	1.1955 1.1060	1.0804	1.1163	1.0913	Ave		1.1553			0.0000	9.3		15.0			
Benzo[b]fluoranthene	1.0729 1.0767	0.9591 1.0902	0.9699	1.0114	1.1373	Ave		1.0453			0.0000	6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-5 Analy Batch No.: 134776

SDG No.: 68087545-5

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0803 1.0851	0.9472 1.1214	1.1337	1.1178	1.0210	Ave		1.0724			0.0000	6.2		15.0			
Benzo[a]pyrene	0.9920 1.0612	0.9445 1.0775	0.9754	1.0337	1.0234	Ave		1.0154			0.0000	4.7		15.0			
Indeno[1,2,3-cd]pyrene	0.9988 0.9513	0.8331 1.0162	0.9231	0.9673	0.9964	Ave		0.9552			0.0000	6.5		15.0			
Dibenz(a,h)anthracene	0.9790 0.9541	0.8572 0.9549	0.9225	0.9559	0.9165	Ave		0.9343			0.0000	4.3		15.0			
Benzo[g,h,i]perylene	1.0736 0.9972	0.9178 1.0017	1.0049	1.0311	0.9680	Ave		0.9992			0.0000	4.9		15.0			
o-Terphenyl	0.5990 0.6241	0.5420 0.6195	0.6120	0.6306	0.6003	Ave		0.6039			0.0000	4.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-5 Analy Batch No.: 134776

SDG No.: 68087545-5

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-5 Analy Batch No.: 134776

SDG No.: 68087545-5

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 11:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1174200	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	901777	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1723779	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	5163	0.20000	0.1983
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2248468	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2426654	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	5702	0.20000	0.1865(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	4328	0.20000	0.2122
4 1-Methylnaphthalene	142	4.310	4.310	(1.133)	3289	0.20000	0.1771
5 Acenaphthylene	152	4.804	4.804	(0.982)	7443	0.20000	0.2047
7 Acenaphthene	154	4.915	4.915	(1.005)	5407	0.20000	0.2392
9 Fluorene	166	5.233	5.233	(1.070)	5412	0.20000	0.1893
11 Phenanthrene	178	5.862	5.862	(1.003)	11408	0.20000	0.2288
12 Anthracene	178	5.898	5.898	(1.009)	10196	0.20000	0.2091
13 Carbazole	167	6.004	6.004	(1.027)	9564	0.20000	0.2207
15 Fluoranthene	202	6.704	6.704	(1.147)	11431	0.20000	0.2094
16 Pyrene	202	6.874	6.874	(0.882)	12023	0.20000	0.1989
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	17074	0.20000	0.2631
19 Chrysene	228	7.815	7.815	(1.002)	15552	0.20000	0.2394
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	13018	0.20000	0.2052
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	13108	0.20000	0.2014
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	12036	0.20000	0.1953
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	12119	0.20000	0.2001(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	11879	0.20000	0.2095
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	13026	0.20000	0.2148

QC Flag Legend

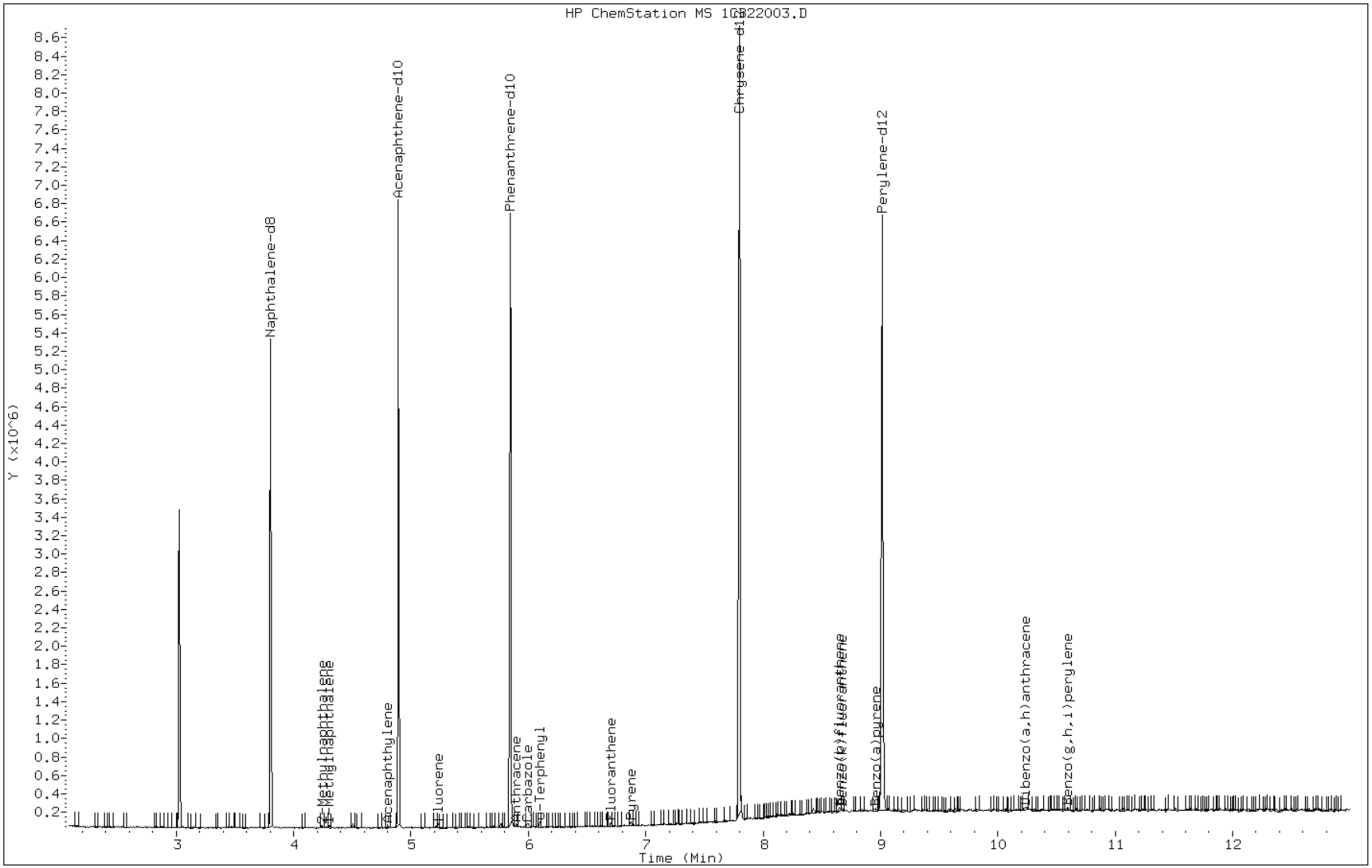
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB22003.D

Date: 22-FEB-2013 11:57

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1CB22003.D
Inj. Date and Time: 22-FEB-2013 11:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

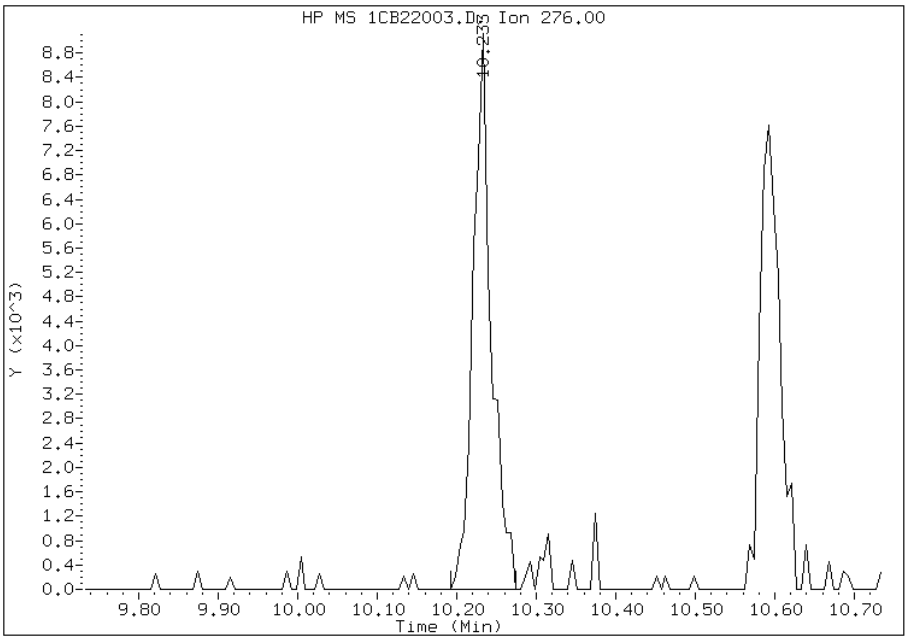
Processing Integration Results

RT: 10.23

Response: 14380

Amount: 0

Conc: 0



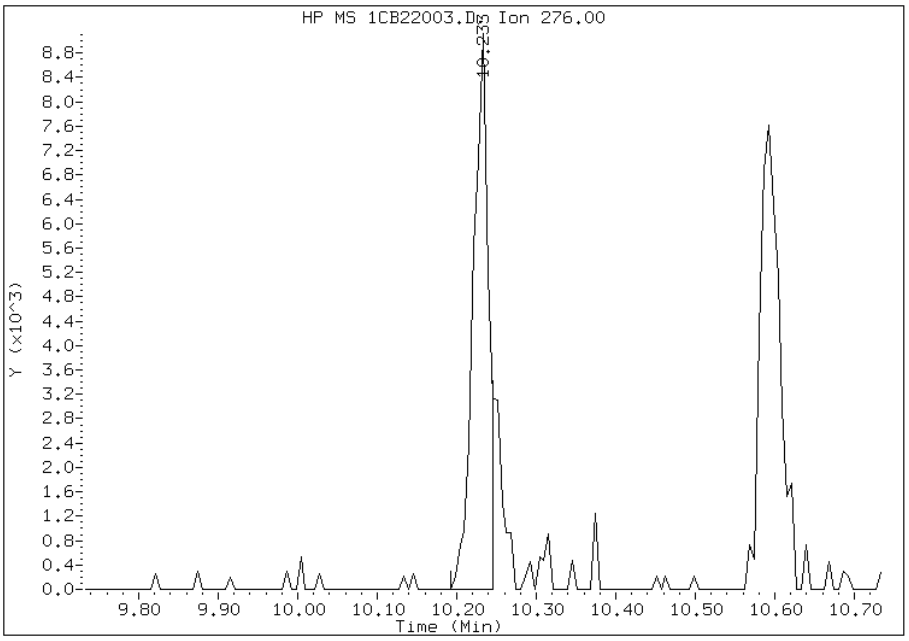
Manual Integration Results

RT: 10.23

Response: 12119

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:13
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1243608	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	931732	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1740509	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	23584	1.00000	0.8974
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2144273	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2349732	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	31413	1.00000	0.9702(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	19516	1.00000	0.9036
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17615	1.00000	0.8955
5 Acenaphthylene	152	4.804	4.804	(0.982)	33214	1.00000	0.8841
7 Acenaphthene	154	4.910	4.910	(1.004)	21590	1.00000	0.9246
9 Fluorene	166	5.233	5.233	(1.070)	28314	1.00000	0.9588
11 Phenanthrene	178	5.862	5.862	(1.003)	51473	1.00000	1.0227
12 Anthracene	178	5.898	5.898	(1.009)	45666	1.00000	0.9277
13 Carbazole	167	6.004	6.004	(1.027)	39992	1.00000	0.9140
15 Fluoranthene	202	6.704	6.704	(1.147)	49039	1.00000	0.8897
16 Pyrene	202	6.874	6.874	(0.882)	58472	1.00000	1.0147
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	62799	1.00000	1.0147
19 Chrysene	228	7.815	7.815	(1.002)	64086	1.00000	1.0347
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	56338	1.00000	0.9174
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	55640	1.00000	0.8832
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	55481	1.00000	0.9301
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134)	48940	1.00000	0.8346(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	50354	1.00000	0.9174
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	53913	1.00000	0.9185

QC Flag Legend

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

Data File: 1CB22004.D

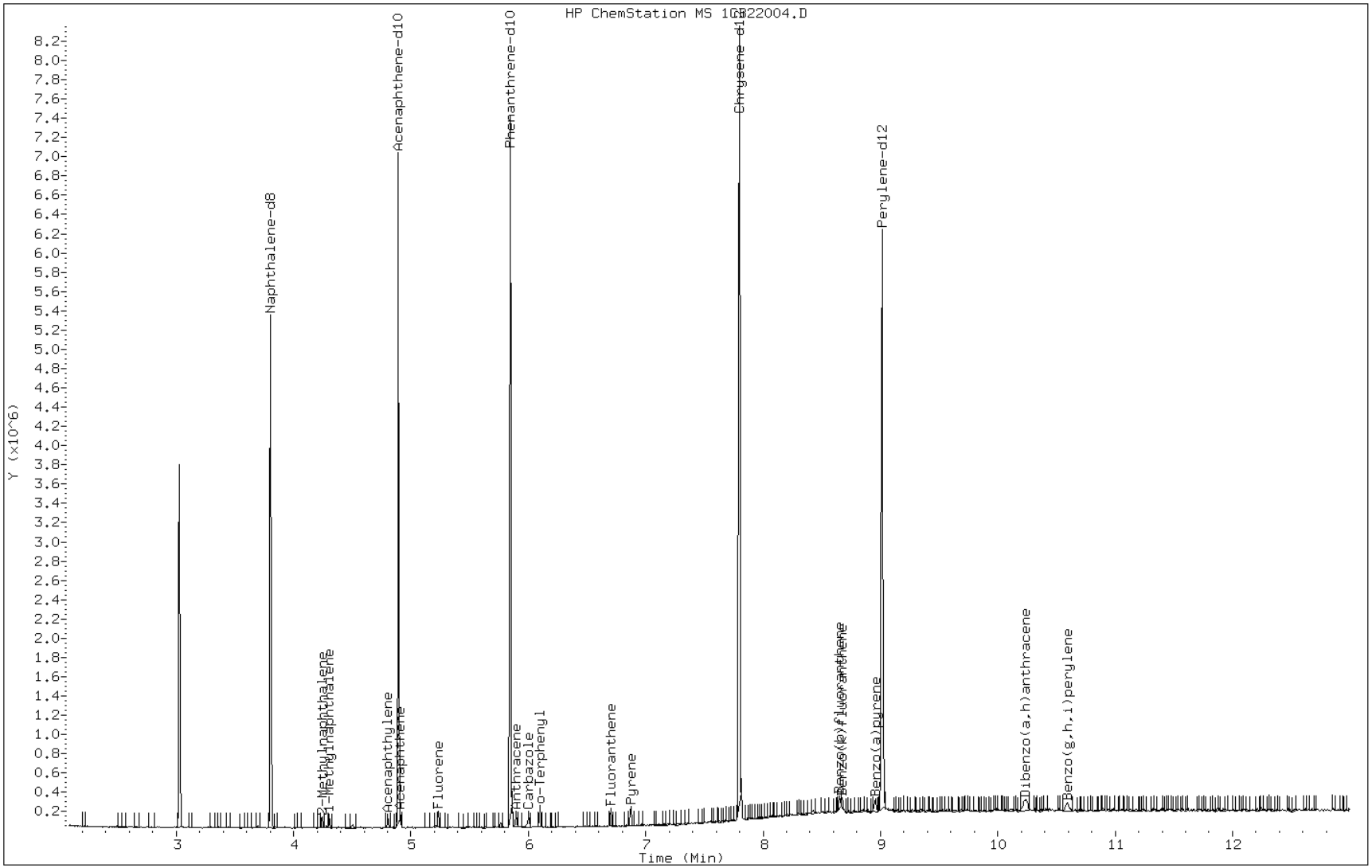
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC



Manual Integration Report

Data File: 1CB22004.D
Inj. Date and Time: 22-FEB-2013 12:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

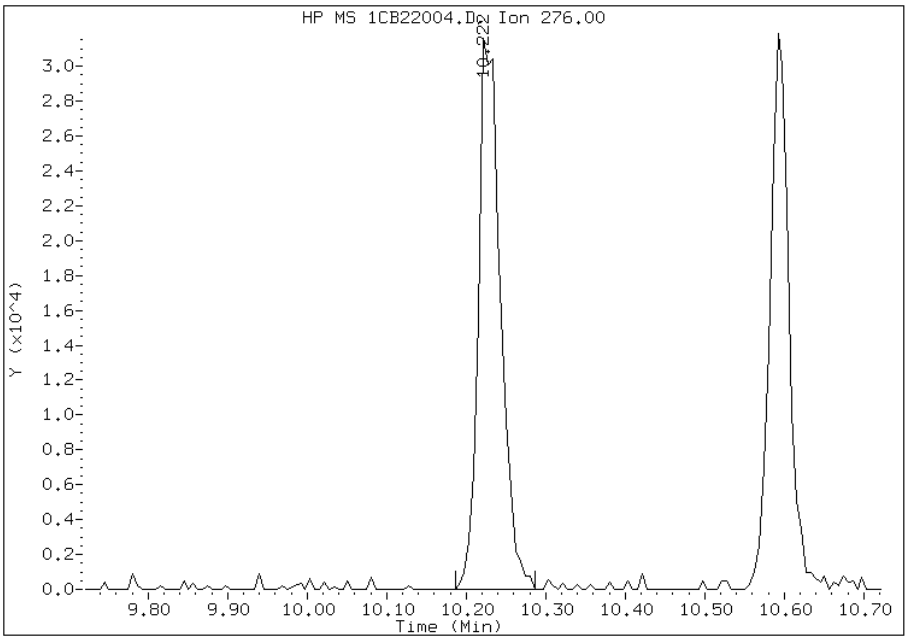
Processing Integration Results

RT: 10.22

Response: 61246

Amount: 1

Conc: 1



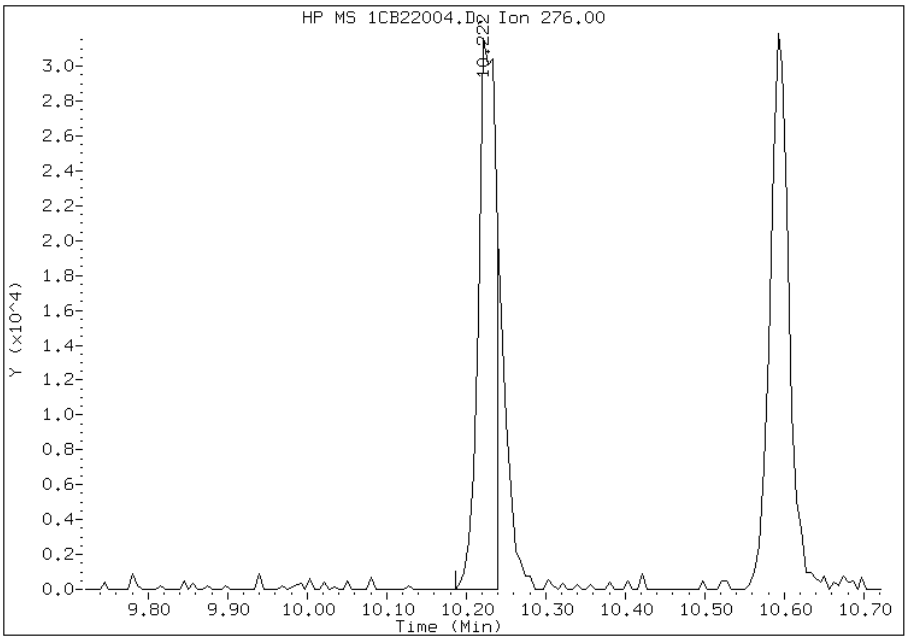
Manual Integration Results

RT: 10.22

Response: 48940

Amount: 1

Conc: 1



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1133793	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694
5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932
7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139
9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663
11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147
12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249
13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685
15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569
16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043
19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287

QC Flag Legend

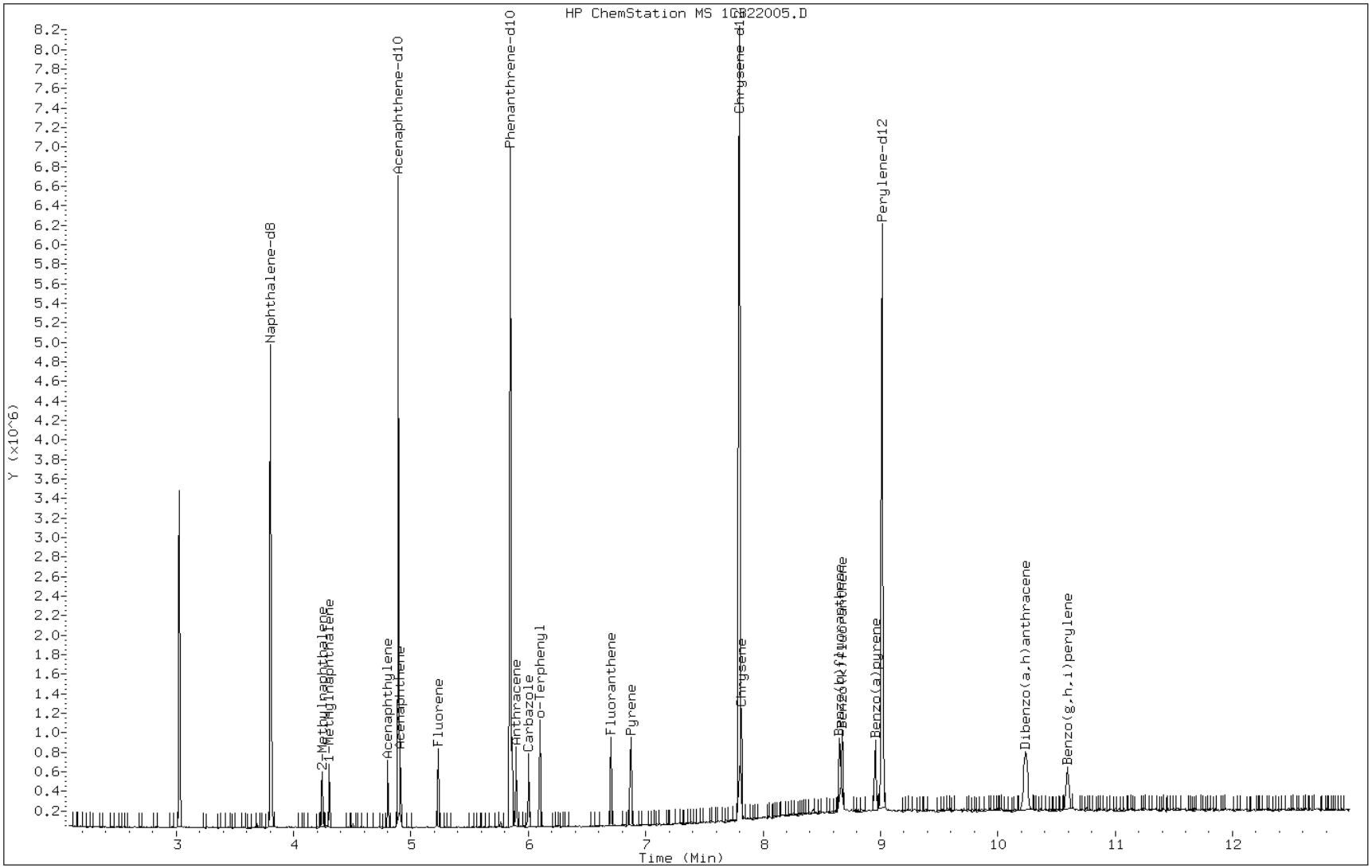
M - Compound response manually integrated.

Data File: 1CB22005.D

Date: 22-FEB-2013 12:34

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

Data File: 1CB22005.D
Inj. Date and Time: 22-FEB-2013 12:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

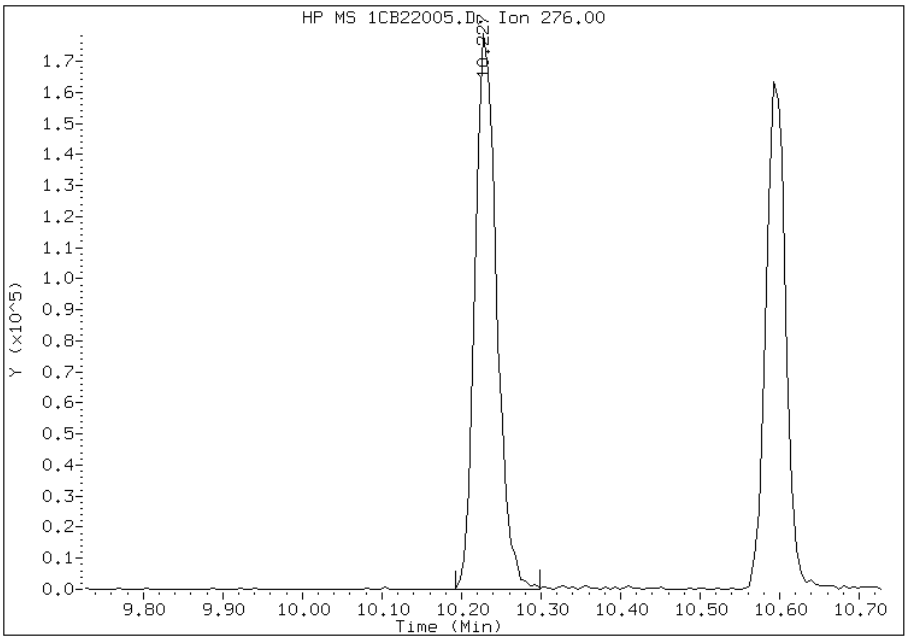
Processing Integration Results

RT: 10.23

Response: 336913

Amount: 6

Conc: 6



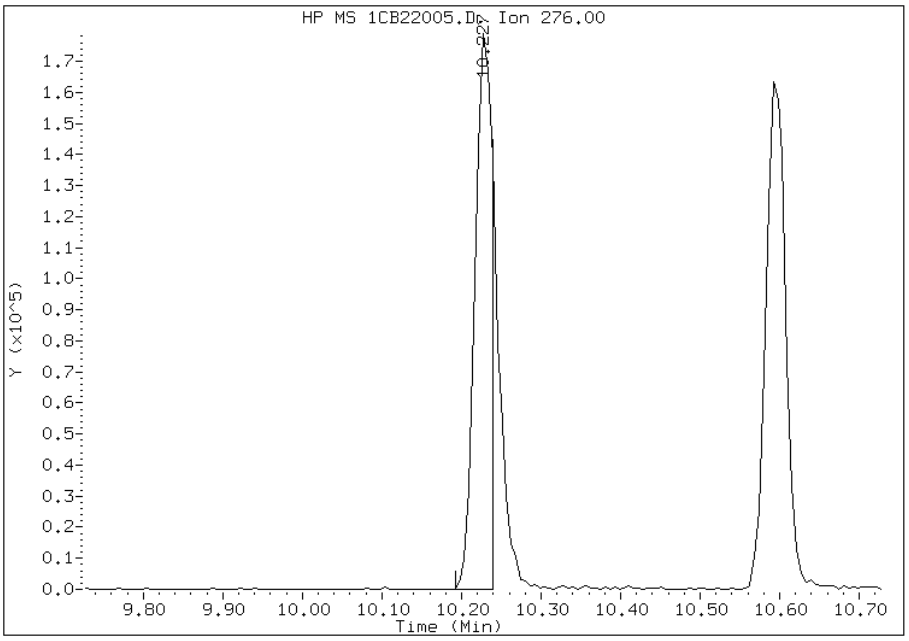
Manual Integration Results

RT: 10.23

Response: 267436

Amount: 5

Conc: 5



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 12:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1161301	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22006.D

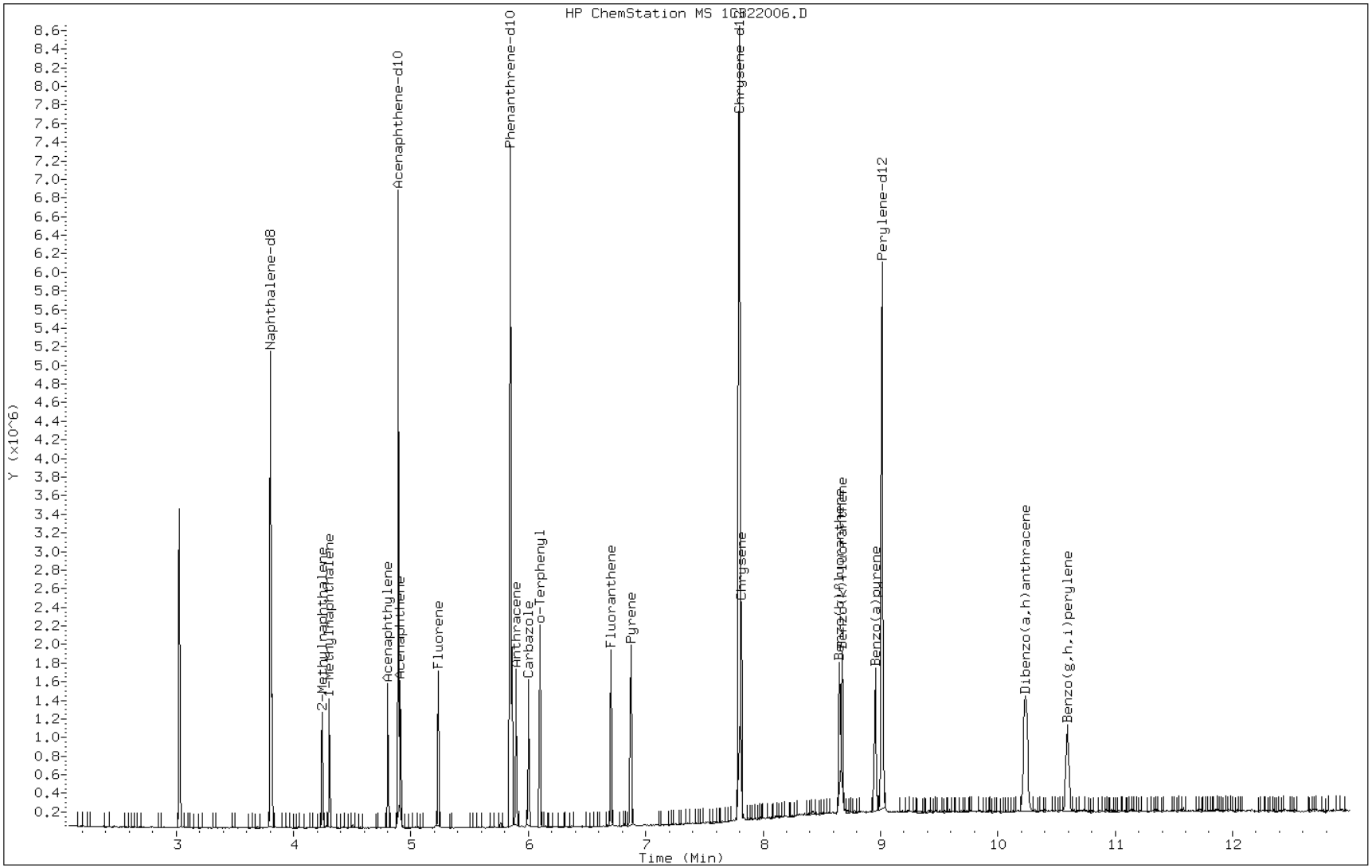
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC



Manual Integration Report

Data File: 1CB22006.D
Inj. Date and Time: 22-FEB-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

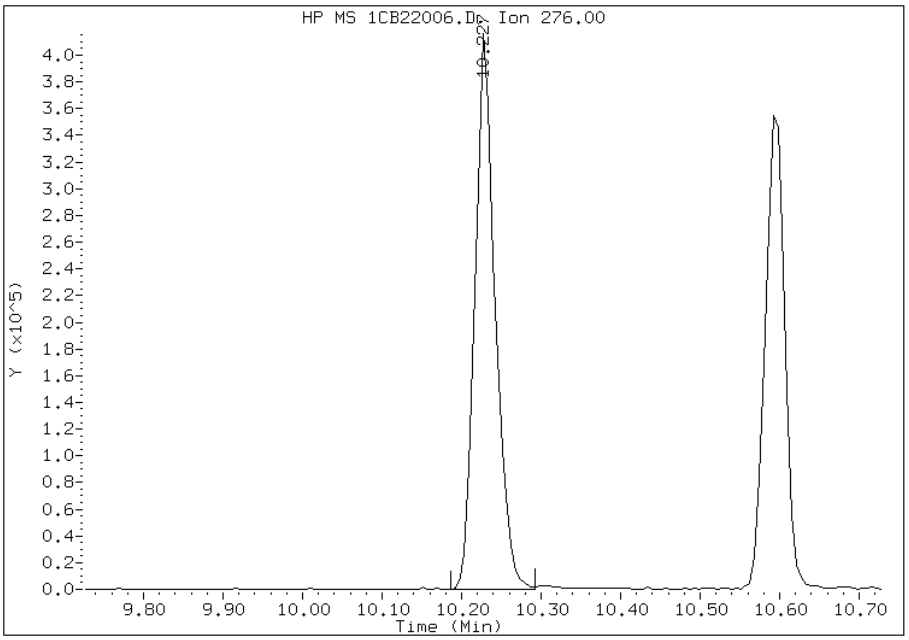
Processing Integration Results

RT: 10.23

Response: 727358

Amount: 13

Conc: 13



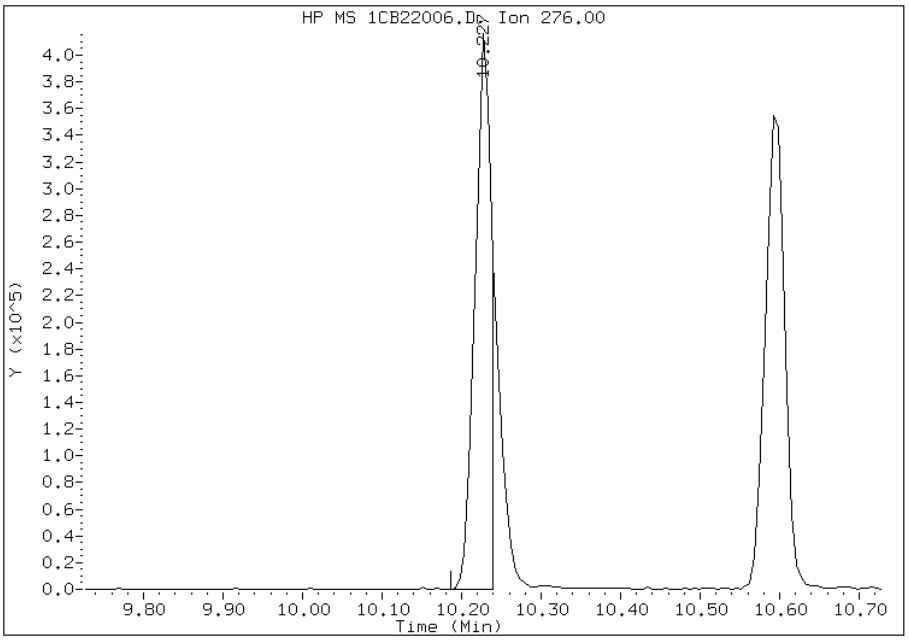
Manual Integration Results

RT: 10.23

Response: 582935

Amount: 10

Conc: 10



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1215005	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220
5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216
7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831
9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625
11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701
12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582
13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239
15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194
16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986
19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914
20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428
22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186
26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760

QC Flag Legend

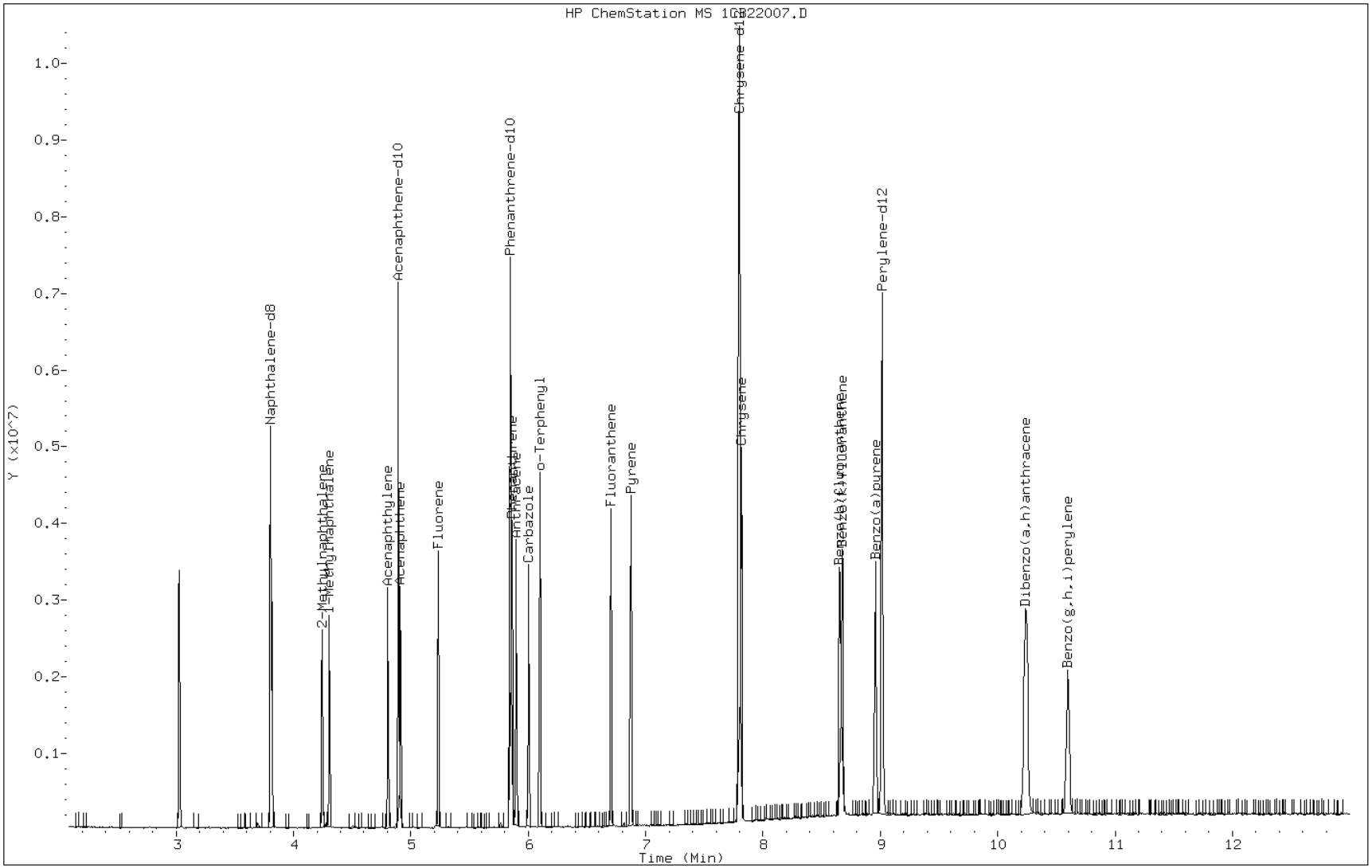
M - Compound response manually integrated.

Data File: 1CB22007.D

Date: 22-FEB-2013 13:11

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CB22007.D
Inj. Date and Time: 22-FEB-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

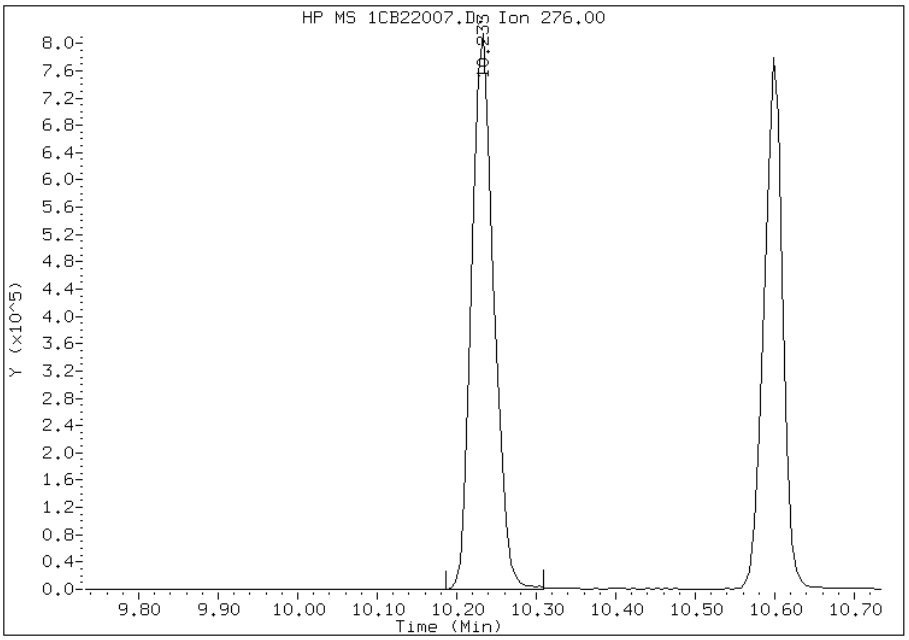
Processing Integration Results

RT: 10.23

Response: 1569498

Amount: 25

Conc: 25



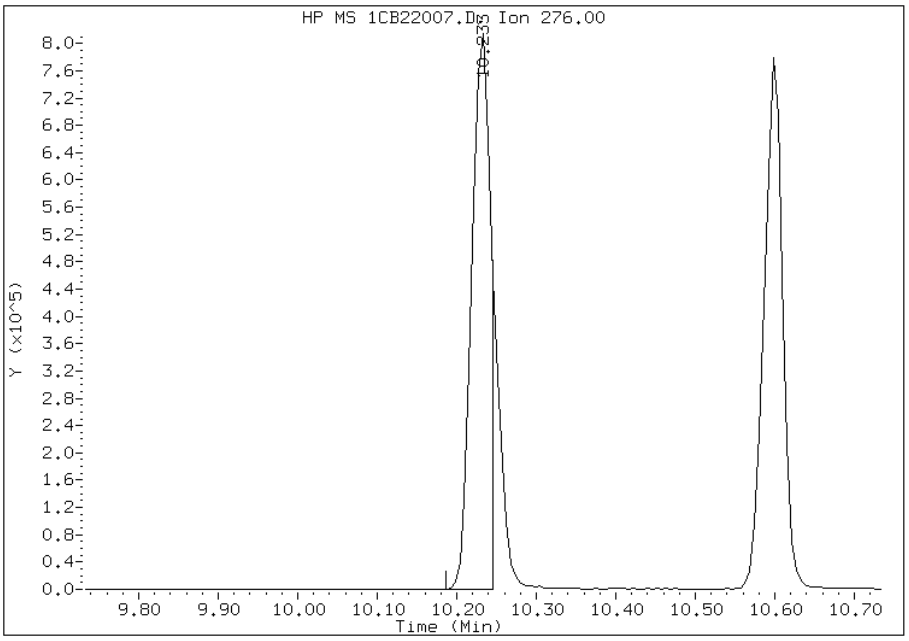
Manual Integration Results

RT: 10.23

Response: 1327322

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:11
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 13:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1245095	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	988838	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1864829	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	872937	30.0000	31.0038
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2477918	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2673716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	977462	30.0000	30.1550
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	647691	30.0000	29.9553
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	595177	30.0000	30.2237
5 Acenaphthylene	152	4.804	4.804	(0.982)	1208002	30.0000	30.3009
7 Acenaphthene	154	4.910	4.910	(1.004)	706037	30.0000	28.4928
9 Fluorene	166	5.233	5.233	(1.070)	961751	30.0000	30.6894
11 Phenanthrene	178	5.863	5.863	(1.003)	1575924	30.0000	29.2256
12 Anthracene	178	5.898	5.898	(1.009)	1605221	30.0000	30.4388
13 Carbazole	167	6.004	6.004	(1.027)	1379814	30.0000	29.4337
15 Fluoranthene	202	6.704	6.704	(1.147)	1826908	30.0000	30.9373
16 Pyrene	202	6.874	6.874	(0.882)	1978030	30.0000	29.7043
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	2005529	30.0000	28.0424
19 Chrysene	228	7.821	7.821	(1.003)	2071419	30.0000	28.9420
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	2159068	30.0000	30.8993
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	2175966	30.0000	30.3566
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	2128065	30.0000	31.3547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	1913283	30.0000	30.6363
26 Benzo(g,h,i)perylene	276	10.603	10.603	(1.176)	1999689	30.0000	29.9402

QC Flag Legend

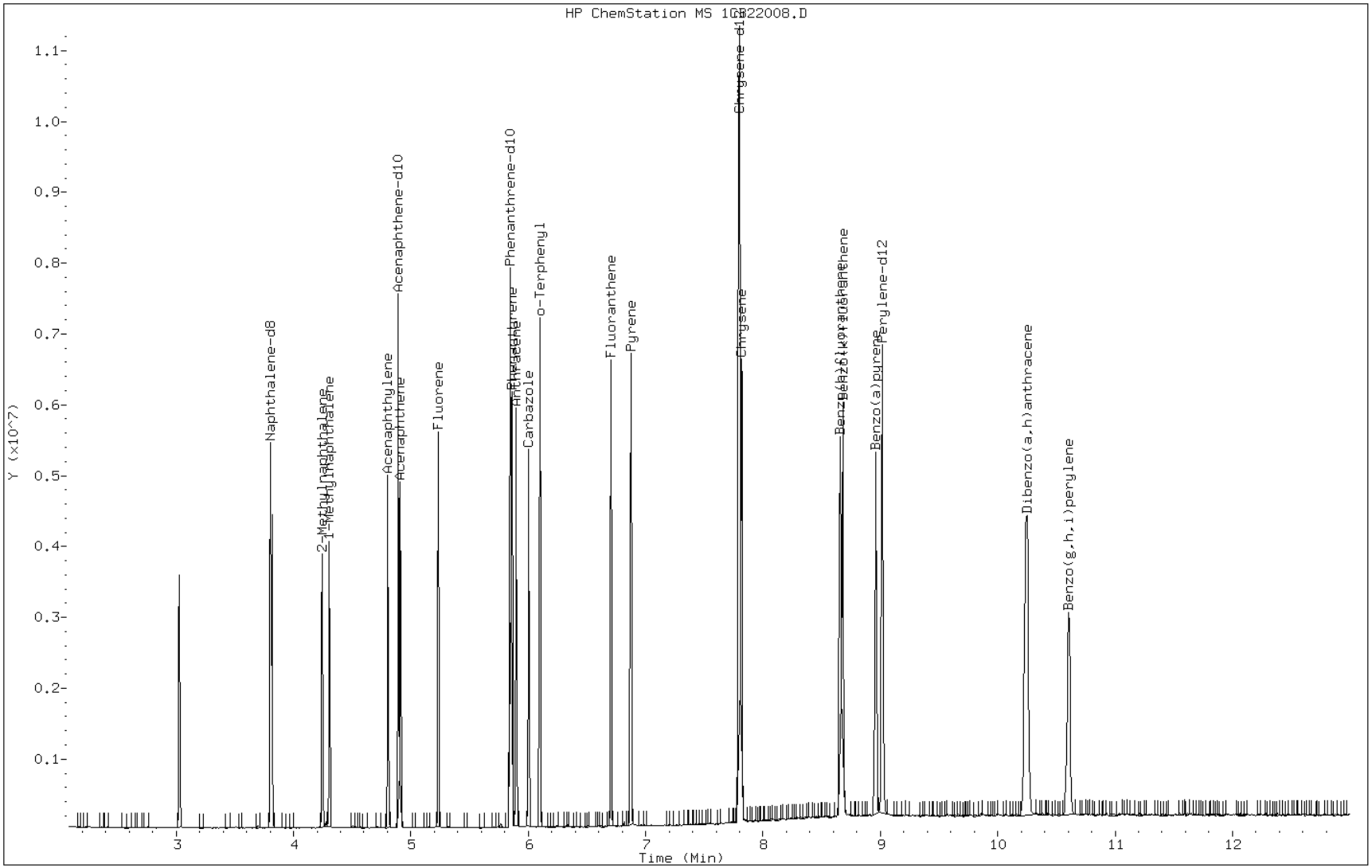
M - Compound response manually integrated.

Data File: 1CB22008.D

Date: 22-FEB-2013 13:29

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512373 Operator: SCC



Manual Integration Report

Data File: 1CB22008.D
Inj. Date and Time: 22-FEB-2013 13:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

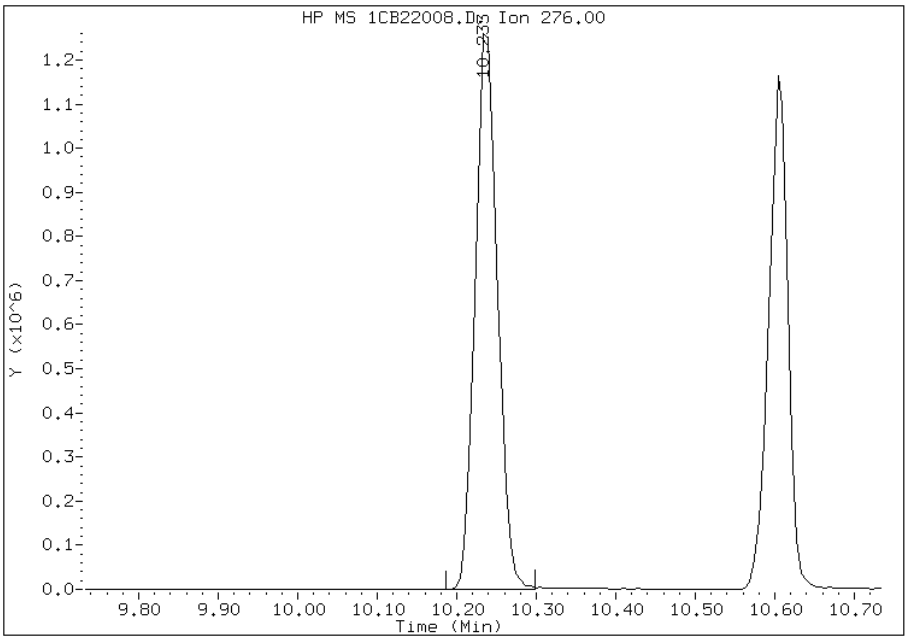
Processing Integration Results

RT: 10.23

Response: 2435528

Amount: 36

Conc: 36



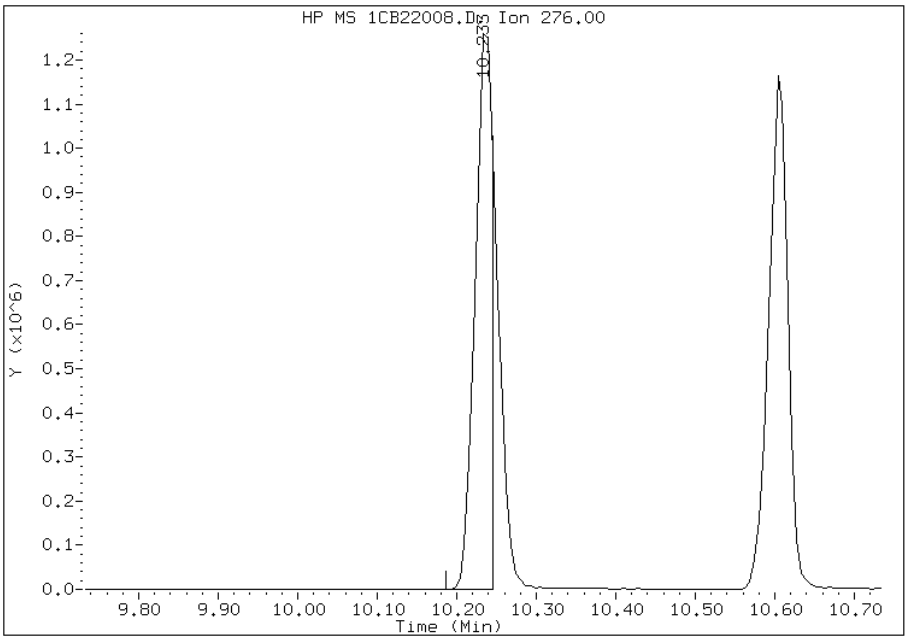
Manual Integration Results

RT: 10.23

Response: 1907725

Amount: 29

Conc: 29



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 13:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1341221	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1022497	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1952764	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	1512079	50.0000	51.2857(A)
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2476604	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2509650	40.0000	
2 Naphthalene	128	3.815	3.815	(1.003)	1788680	50.0000	51.2265(A)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	1170415	50.0000	50.2513(A)
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	1106965	50.0000	52.1840(A)
5 Acenaphthylene	152	4.804	4.804	(0.982)	2158422	50.0000	52.3585(A)
7 Acenaphthene	154	4.910	4.910	(1.004)	1241216	50.0000	48.4415
9 Fluorene	166	5.233	5.233	(1.070)	1689190	50.0000	52.1276(A)
11 Phenanthrene	178	5.862	5.862	(1.003)	2774518	50.0000	49.1366
12 Anthracene	178	5.898	5.898	(1.009)	2853457	50.0000	51.6717(A)
13 Carbazole	167	6.004	6.004	(1.027)	2470847	50.0000	50.3338(A)
15 Fluoranthene	202	6.704	6.704	(1.147)	3133704	50.0000	50.6773(A)
16 Pyrene	202	6.874	6.874	(0.882)	3458322	50.0000	51.9617(A)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	3342573	50.0000	46.7626
19 Chrysene	228	7.821	7.821	(1.003)	3423784	50.0000	47.8628
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	3419972	50.0000	52.1444(A)
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	3517880	50.0000	52.2859(A)
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	3380087	50.0000	53.0576(A)
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.239	(1.136)	3187834	50.0000	50.9008(AM)
25 Dibenzo(a,h)anthracene	278	10.256	10.256	(1.138)	2995648	50.0000	51.1034(A)
26 Benzo(g,h,i)perylene	276	10.609	10.609	(1.177)	3142464	50.0000	50.1261(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CB22009.D

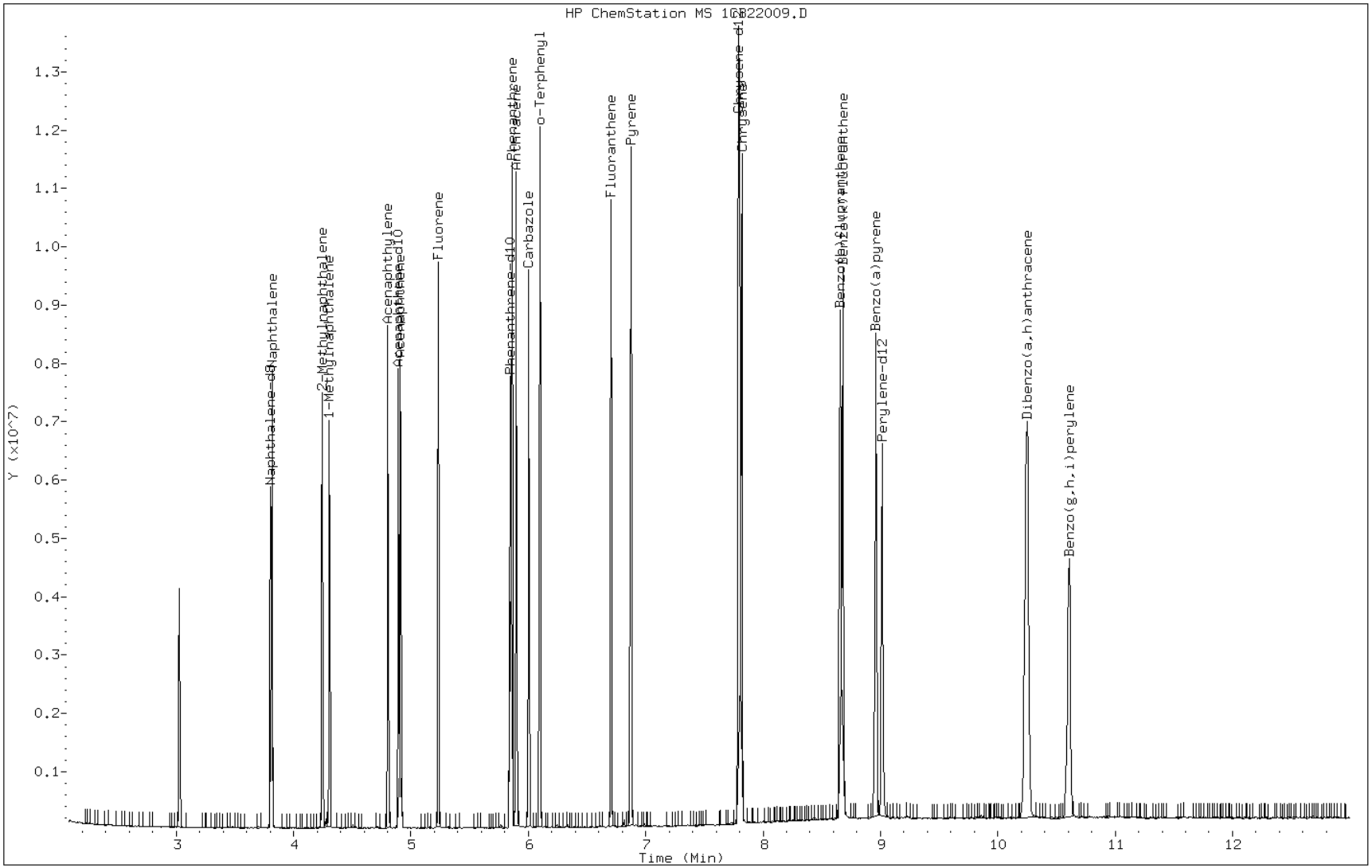
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC



Manual Integration Report

Data File: 1CB22009.D
Inj. Date and Time: 22-FEB-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

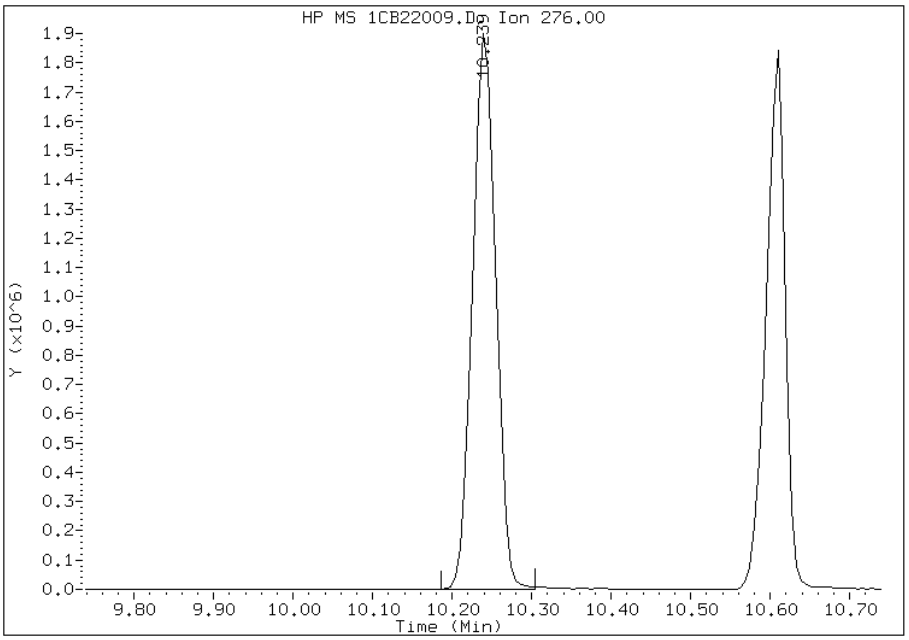
Processing Integration Results

RT: 10.24

Response: 3825990

Amount: 51

Conc: 51



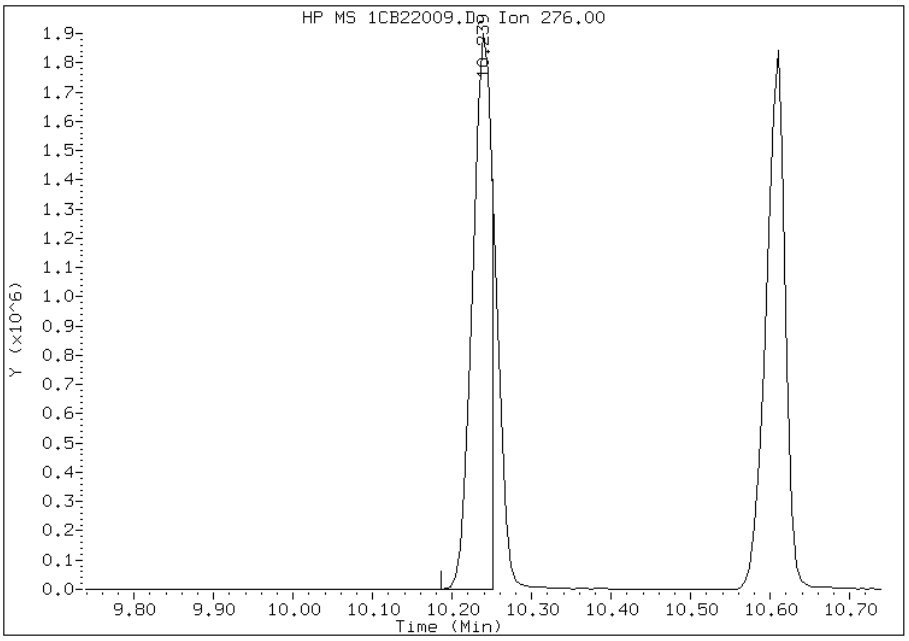
Manual Integration Results

RT: 10.24

Response: 3187834

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-5 Analy Batch No.: 134781

SDG No.: 68087545-5

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.1280 1.0523	1.0553 1.0405	1.0642	1.0918	1.0581	Ave		1.0700			0.0000	2.8		15.0			
2-Methylnaphthalene	0.7034 0.6669	0.6712 0.6728	0.6797	0.7002	0.6770	Ave		0.6816			0.0000	2.1		15.0			
1-Methylnaphthalene	0.6099 0.6325	0.6631 0.6258	0.6460	0.6514	0.6392	Ave		0.6383			0.0000	2.7		15.0			
Acenaphthylene	1.6661 1.7814	1.7639 1.7689	1.7448	1.8238	1.7955	Ave		1.7635			0.0000	2.8		15.0			
Acenaphthene	1.1402 1.0526	1.0845 1.0396	1.0477	1.1072	1.0550	Ave		1.0753			0.0000	3.5		15.0			
Fluorene	1.2209 1.2661	1.2731 1.2520	1.2478	1.2756	1.2585	Ave		1.2563			0.0000	1.5		15.0			
Phenanthrene	1.2165 1.1039	1.1314 1.0752	1.1449	1.1623	1.1141	Ave		1.1355			0.0000	4.0		15.0			
Anthracene	1.1088 1.1419	1.0967 1.1309	1.1548	1.1738	1.1455	Ave		1.1361			0.0000	2.3		15.0			
Carbazole	0.9989 1.0251	0.9725 1.0106	1.0326	1.0515	1.0179	Ave		1.0156			0.0000	2.5		15.0			
Fluoranthene	1.2255 1.1884	1.1239 1.1523	1.1976	1.2199	1.1869	Ave		1.1849			0.0000	3.0		15.0			
Pyrene	1.1729 1.2433	1.2578 1.2072	1.2525	1.2954	1.2562	Ave		1.2408			0.0000	3.2		15.0			
Benzo[a]anthracene	1.6058 1.1034	1.1616 1.0898	1.1024	1.1235	1.1016	LinF		1.0951			0.0000				0.9999		0.9900
Chrysene	1.1781 1.1047	1.1583 1.0841	1.1177	1.1544	1.1168	Ave		1.1306			0.0000	3.0		15.0			
Benzo[b]fluoranthene	0.9830 1.0461	1.0325 1.0528	1.0066	1.0593	1.0269	Ave		1.0296			0.0000	2.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-5 Analy Batch No.: 134781

SDG No.: 68087545-5

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0760 1.0603	1.0460 1.0472	1.1052	1.1212	1.0903	Ave		1.0780			0.0000	2.7		15.0			
Benzo[a]pyrene	0.9398 1.0484	0.9776 1.0366	1.0344	1.0539	1.0414	Ave		1.0189			0.0000	4.2		15.0			
Indeno[1,2,3-cd]pyrene	1.0120 1.1423	1.0104 1.1459	1.0416	1.1166	1.1424	Ave		1.0873			0.0000	5.8		15.0			
Dibenz(a,h)anthracene	0.9455 1.0206	0.9830 1.0192	1.0084	1.0295	1.0229	Ave		1.0042			0.0000	3.0		15.0			
Benzo[g,h,i]perylene	1.0182 1.0480	1.0153 1.0408	1.0329	1.0607	1.0410	Ave		1.0367			0.0000	1.6		15.0			
o-Terphenyl	0.6320 0.6161	0.6127 0.5977	0.6203	0.6323	0.6189	Ave		0.6186			0.0000	1.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-5 Analy Batch No.: 134781

SDG No.: 68087545-5

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	15953 2298963	74498 3699527	371017	777491	1508569	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	9948 1457082	47384 2392281	236964	498648	965225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8626 1381962	46812 2225072	225226	463905	911252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	14047 2298195	75049 3717778	364710	773248	1512937	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	9613 1357997	46142 2184846	218994	469400	889006	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10293 1633465	54168 2631357	260823	540812	1060484	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	16602 2324547	78922 3708574	386527	798454	1536701	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	15132 2404366	76501 3900989	389851	806411	1580088	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	13633 2158453	67837 3485796	348596	722383	1404089	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	16725 2502381	78399 3974777	404310	838075	1637186	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	16387 2630026	86802 4199944	429030	897242	1722041	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	22435 2334008	80159 3791270	377597	778182	1510209	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	16460 2336752	79936 3771462	382861	799570	1531008	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	14372 2331940	74603 3853307	359912	772745	1490545	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	15732 2363523	75578 3832862	395166	817887	1582576	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87545-5 Analy Batch No.: 134781

SDG No.: 68087545-5

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	13740 2336988	70635 3794269	369863	768774	1511646	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	14796 2546397	73004 4194422	372428	814504	1658275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13824 2275035	71027 3730665	360565	750999	1484721	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14886 2336152	73360 3809441	369321	773773	1511031	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	8625 1297334	42735 2061660	209410	434393	853642	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 12:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2828471	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1686180	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2729489	40.0000	
$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	8625	0.20000	0.20
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2794246	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2924062	40.0000	
2 Naphthalene	128	6.201	6.201	(1.003)	15953	0.20000	0.21
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	9948	0.20000	0.21
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	8626	0.20000	0.19
5 Acenaphthylene	152	7.723	7.723	(0.983)	14047	0.20000	0.19
7 Acenaphthene	154	7.882	7.882	(1.003)	9613	0.20000	0.21
8 Fluorene	166	8.322	8.322	(1.059)	10293	0.20000	0.19
10 Phenanthrene	178	9.127	9.127	(1.001)	16602	0.20000	0.21
11 Anthracene	178	9.168	9.168	(1.006)	15132	0.20000	0.20
12 Carbazole	167	9.303	9.303	(1.021)	13633	0.20000	0.20
14 Fluoranthene	202	10.114	10.114	(1.110)	16725	0.20000	0.21
15 Pyrene	202	10.302	10.302	(0.899)	16387	0.20000	0.19
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	22435	0.20000	0.27
18 Chrysene	228	11.477	11.477	(1.002)	16460	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.764	12.764	(0.957)	14372	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.799	12.799	(0.960)	15732	0.20000	0.20
21 Benzo(a)pyrene	252	13.222	13.222	(0.992)	13740	0.20000	0.18
23 Indeno(1,2,3-cd)pyrene	276	14.932	14.932	(1.120)	14796	0.20000	0.19(H)
24 Dibenzo(a,h)anthracene	278	14.967	14.967	(1.122)	13824	0.20000	0.19(MH)
25 Benzo(g,h,i)perylene	276	15.379	15.379	(1.153)	14886	0.20000	0.20(MH)

QC Flag Legend

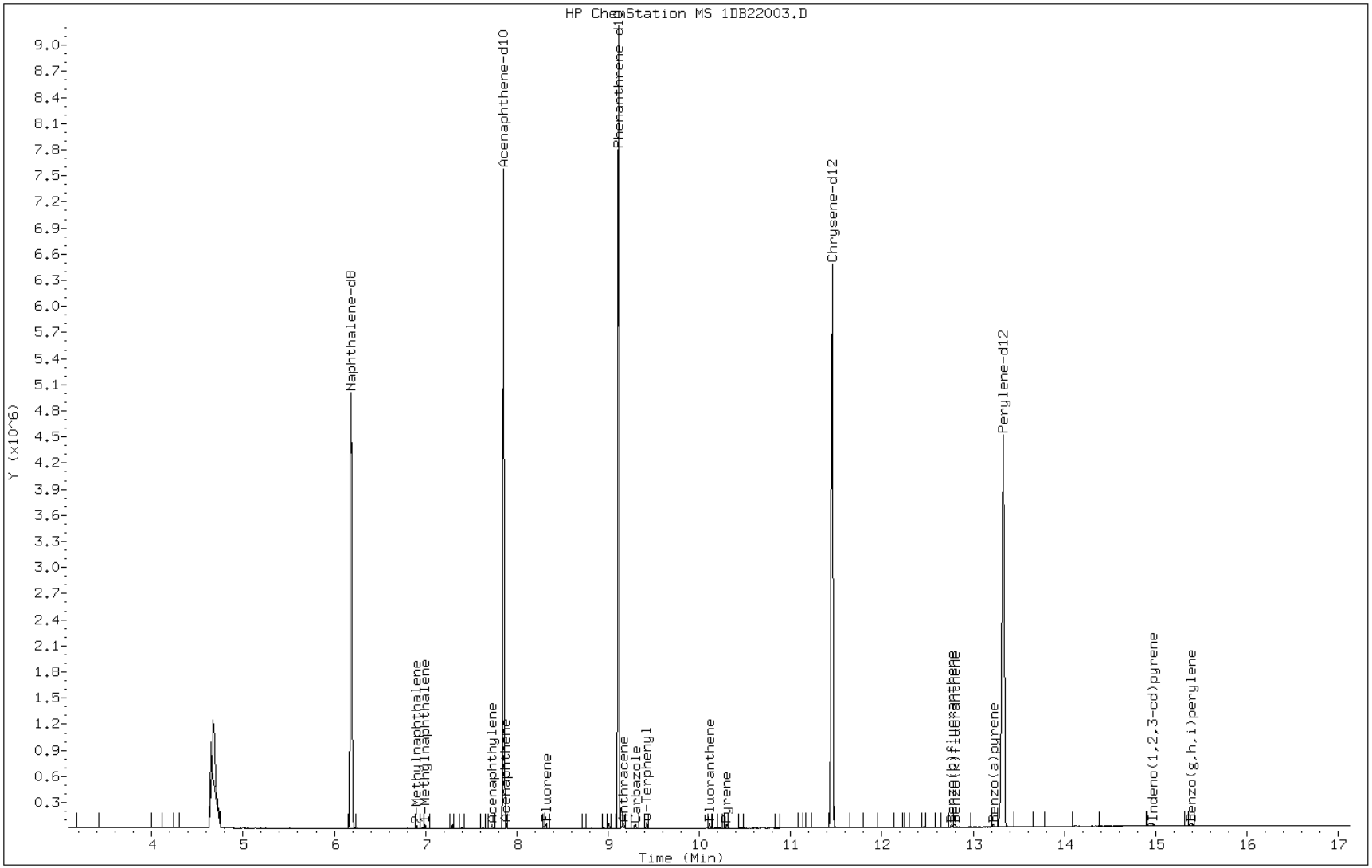
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22003.D

Date: 22-FEB-2013 12:13

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/22/2013

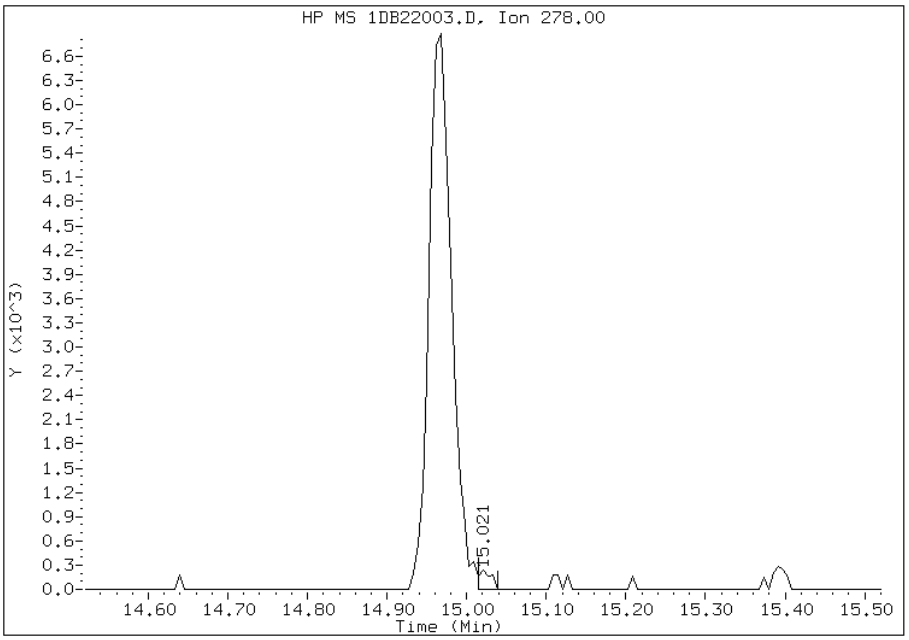
Processing Integration Results

RT: 15.02

Response: 262

Amount: 0

Conc: 0



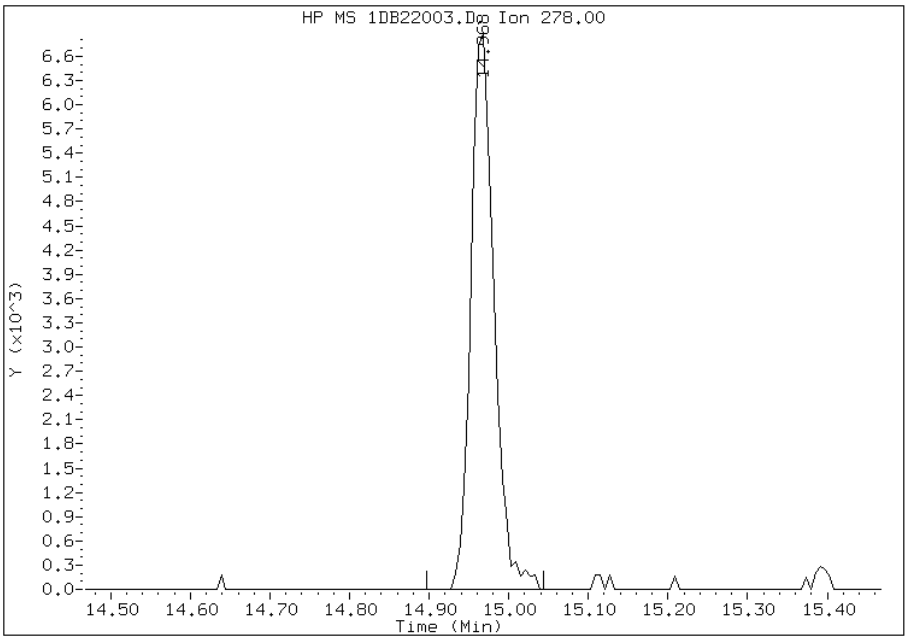
Manual Integration Results

RT: 14.97

Response: 13824

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/22/2013

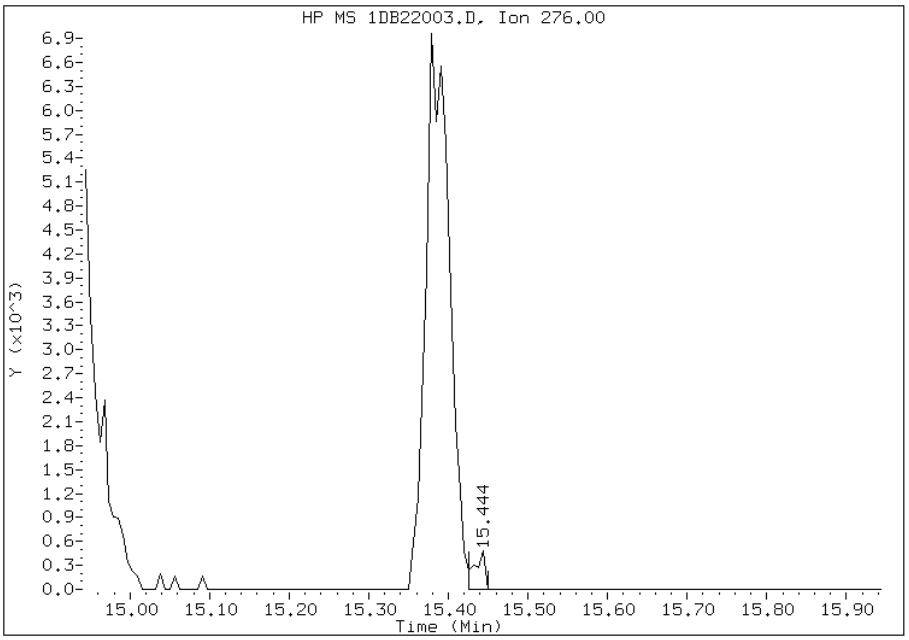
Processing Integration Results

RT: 15.44

Response: 456

Amount: 0

Conc: 0



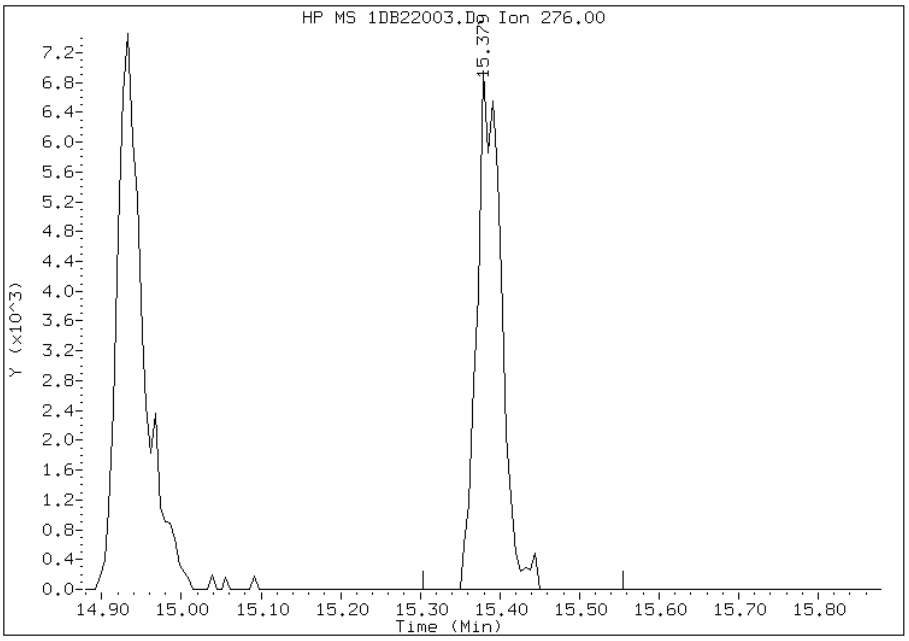
Manual Integration Results

RT: 15.38

Response: 14886

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:35
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:13 Cal File: 1DB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.186	6.186	(1.000)	2823768	40.0000	
* 6 Acenaphthene-d10	164	7.854	7.854	(1.000)	1701879	40.0000	
* 9 Phenanthrene-d10	188	9.112	9.112	(1.000)	2790130	40.0000	
$ 13 o-Terphenyl	230	9.423	9.423	(1.034)	42735	1.00000	0.99
* 17 Chrysene-d12	240	11.456	11.456	(1.000)	2760384	40.0000	
* 22 Perylene-d12	264	13.330	13.330	(1.000)	2890207	40.0000	
2 Naphthalene	128	6.203	6.203	(1.003)	74498	1.00000	0.99
3 2-Methylnaphthalene	142	6.902	6.902	(1.116)	47384	1.00000	0.98
4 1-Methylnaphthalene	142	6.997	6.997	(1.131)	46812	1.00000	1.0
5 Acenaphthylene	152	7.725	7.725	(0.984)	75049	1.00000	1.0
7 Acenaphthene	154	7.878	7.878	(1.003)	46142	1.00000	1.0
8 Fluorene	166	8.318	8.318	(1.059)	54168	1.00000	1.0
10 Phenanthrene	178	9.129	9.129	(1.002)	78922	1.00000	1.00
11 Anthracene	178	9.170	9.170	(1.006)	76501	1.00000	0.96
12 Carbazole	167	9.306	9.306	(1.021)	67837	1.00000	0.96
14 Fluoranthene	202	10.111	10.111	(1.110)	78399	1.00000	0.95
15 Pyrene	202	10.299	10.299	(0.899)	86802	1.00000	1.0
16 Benzo(a)anthracene	228	11.432	11.432	(0.998)	80159	1.00000	0.98
18 Chrysene	228	11.474	11.474	(1.002)	79936	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.760	12.760	(0.957)	74603	1.00000	1.0
20 Benzo(k)fluoranthene	252	12.796	12.796	(0.960)	75578	1.00000	0.97
21 Benzo(a)pyrene	252	13.219	13.219	(0.992)	70635	1.00000	0.96
23 Indeno(1,2,3-cd)pyrene	276	14.934	14.934	(1.120)	73004	1.00000	0.93(M)
24 Dibenzo(a,h)anthracene	278	14.964	14.964	(1.123)	71027	1.00000	0.98(H)
25 Benzo(g,h,i)perylene	276	15.381	15.381	(1.154)	73360	1.00000	0.98(H)

QC Flag Legend

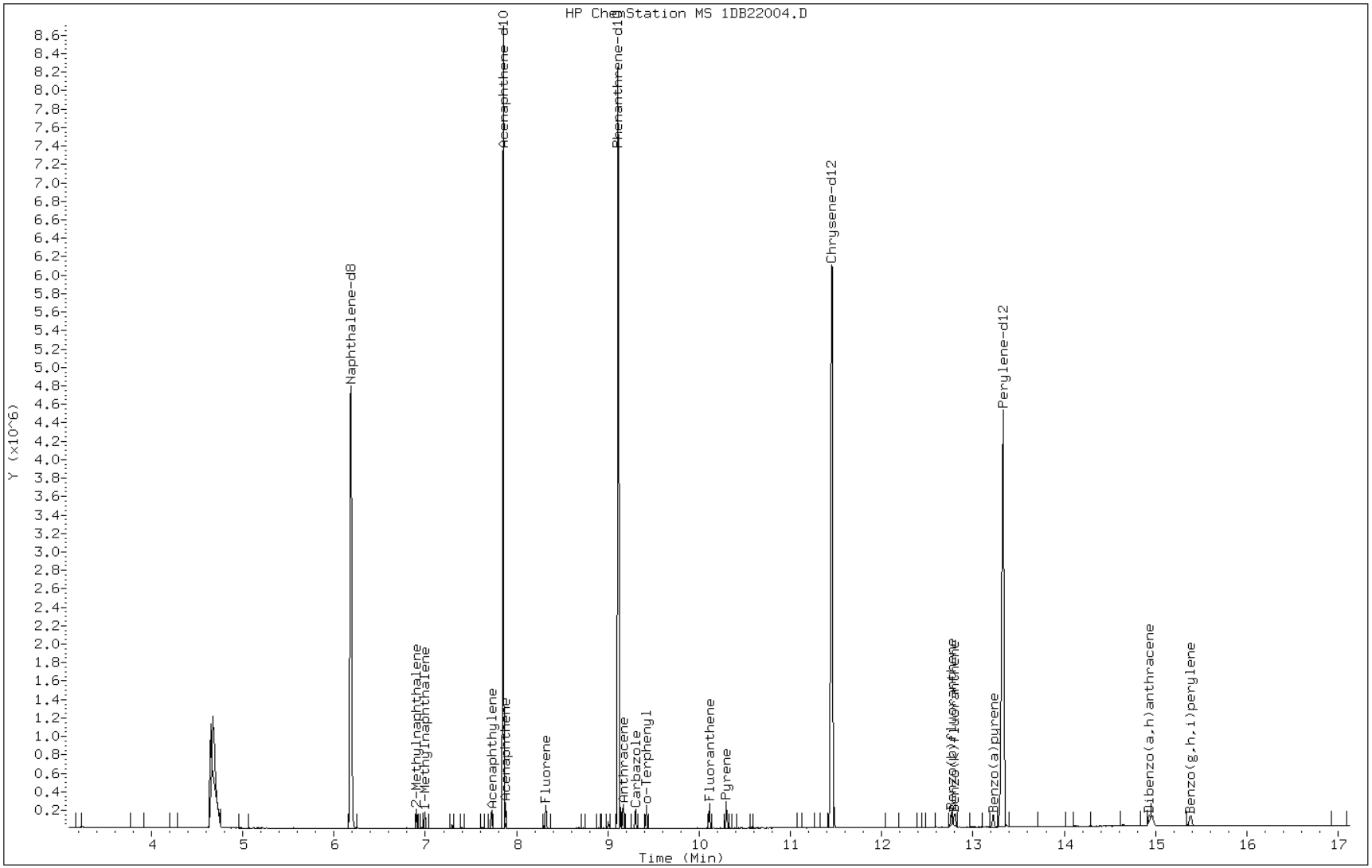
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22004.D

Date: 22-FEB-2013 12:35

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512359 Operator: SCC



Manual Integration Report

Data File: 1DB22004.D
Inj. Date and Time: 22-FEB-2013 12:35
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

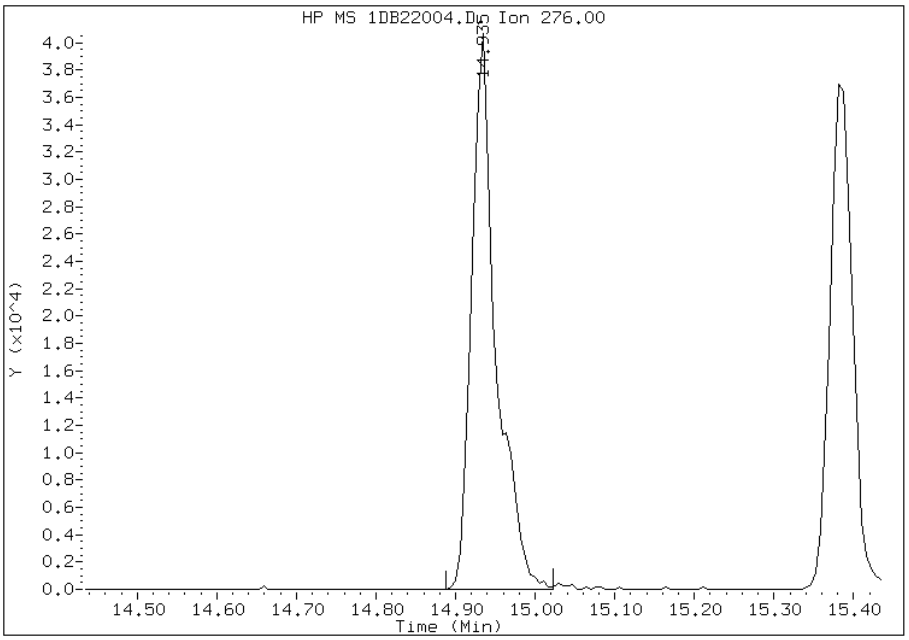
Processing Integration Results

RT: 14.93

Response: 86267

Amount: 1

Conc: 1



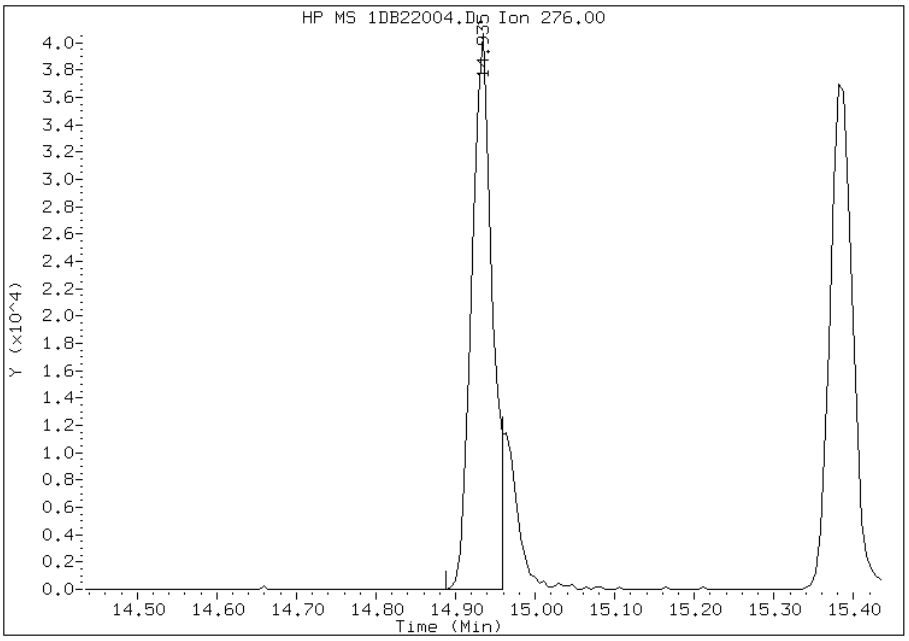
Manual Integration Results

RT: 14.93

Response: 73004

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:58
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:35 Cal File: 1DB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2789095	40.0000	
* 6 Acenaphthene-d10	164	7.853	7.853	(1.000)	1672170	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.116	(1.000)	2700824	40.0000	
$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	209410	5.00000	5.0
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2740282	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2860502	40.0000	
2 Naphthalene	128	6.202	6.202	(1.003)	371017	5.00000	5.0
3 2-Methylnaphthalene	142	6.901	6.901	(1.116)	236964	5.00000	5.0
4 1-Methylnaphthalene	142	6.995	6.995	(1.131)	225226	5.00000	5.1
5 Acenaphthylene	152	7.723	7.723	(0.984)	364710	5.00000	4.9
7 Acenaphthene	154	7.876	7.876	(1.003)	218994	5.00000	4.9
8 Fluorene	166	8.323	8.323	(1.060)	260823	5.00000	5.0
10 Phenanthrene	178	9.134	9.134	(1.002)	386527	5.00000	5.0
11 Anthracene	178	9.169	9.169	(1.006)	389851	5.00000	5.1
12 Carbazole	167	9.304	9.304	(1.021)	348596	5.00000	5.1
14 Fluoranthene	202	10.115	10.115	(1.110)	404310	5.00000	5.0
15 Pyrene	202	10.303	10.303	(0.899)	429030	5.00000	5.0
16 Benzo(a)anthracene	228	11.437	11.437	(0.998)	377597	5.00000	4.6
18 Chrysene	228	11.478	11.478	(1.002)	382861	5.00000	4.9
19 Benzo(b)fluoranthene	252	12.765	12.765	(0.957)	359912	5.00000	4.9
20 Benzo(k)fluoranthene	252	12.806	12.806	(0.960)	395166	5.00000	5.1
21 Benzo(a)pyrene	252	13.229	13.229	(0.992)	369863	5.00000	5.1
23 Indeno(1,2,3-cd)pyrene	276	14.938	14.938	(1.120)	372428	5.00000	4.8(M)
24 Dibenzo(a,h)anthracene	278	14.974	14.974	(1.123)	360565	5.00000	5.0(H)
25 Benzo(g,h,i)perylene	276	15.391	15.391	(1.154)	369321	5.00000	5.0(H)

QC Flag Legend

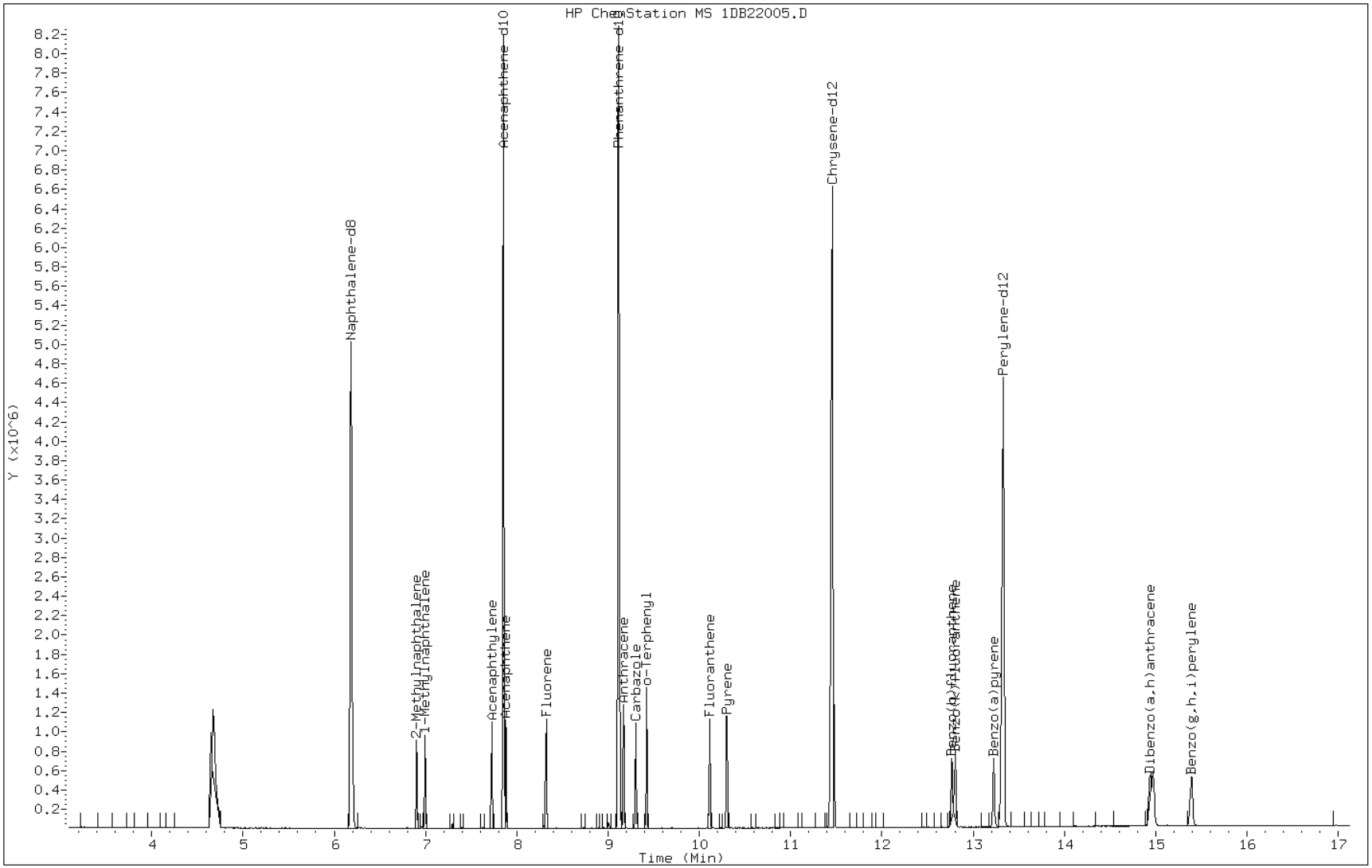
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22005.D

Date: 22-FEB-2013 12:58

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

Data File: 1DB22005.D
Inj. Date and Time: 22-FEB-2013 12:58
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

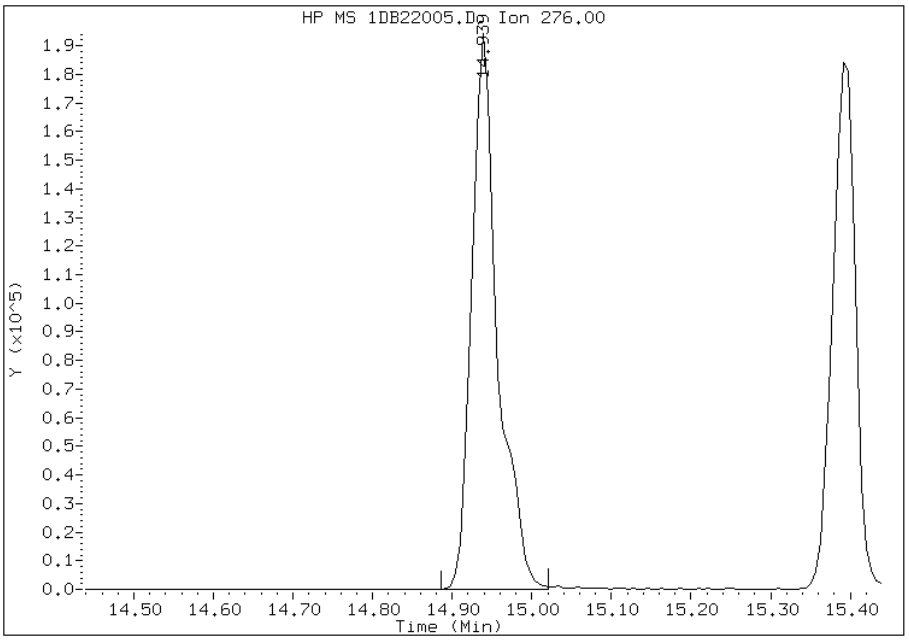
Processing Integration Results

RT: 14.94

Response: 437022

Amount: 5

Conc: 5



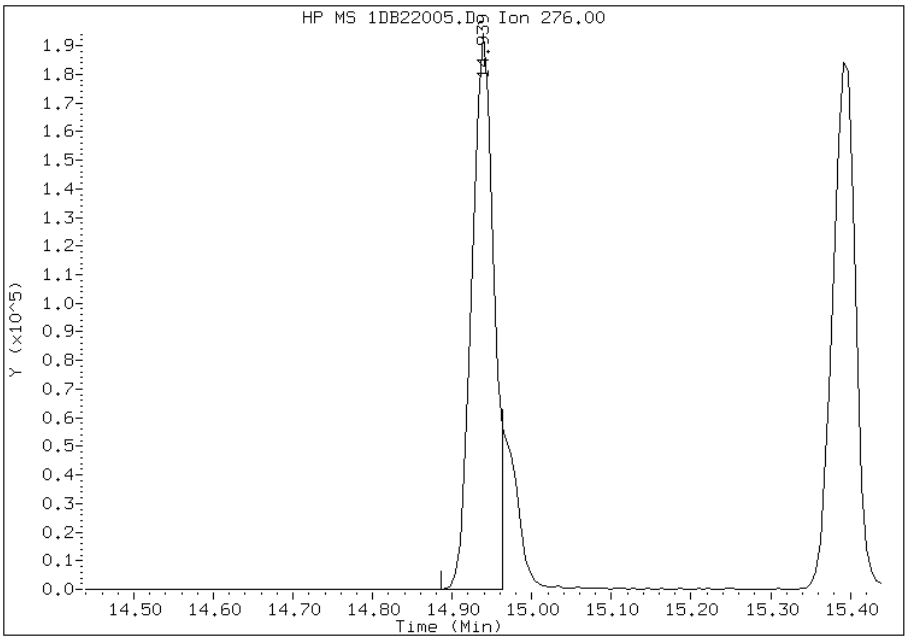
Manual Integration Results

RT: 14.94

Response: 372428

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 13:21
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512361
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:58 Cal File: 1DB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2848559	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1695869	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2747931	40.0000	
$ 13 o-Terphenyl	230	9.420	9.420	(1.034)	434393	10.0000	10
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2770572	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2917915	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	777491	10.0000	10
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	498648	10.0000	10
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	463905	10.0000	10
5 Acenaphthylene	152	7.728	7.728	(0.984)	773248	10.0000	10
7 Acenaphthene	154	7.881	7.881	(1.003)	469400	10.0000	10
8 Fluorene	166	8.322	8.322	(1.059)	540812	10.0000	10
10 Phenanthrene	178	9.132	9.132	(1.002)	798454	10.0000	10
11 Anthracene	178	9.174	9.174	(1.006)	806411	10.0000	10
12 Carbazole	167	9.309	9.309	(1.021)	722383	10.0000	10
14 Fluoranthene	202	10.114	10.114	(1.110)	838075	10.0000	10
15 Pyrene	202	10.302	10.302	(0.899)	897242	10.0000	10
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	778182	10.0000	9.5
18 Chrysene	228	11.477	11.477	(1.002)	799570	10.0000	10
19 Benzo(b)fluoranthene	252	12.769	12.769	(0.958)	772745	10.0000	10
20 Benzo(k)fluoranthene	252	12.811	12.811	(0.961)	817887	10.0000	10
21 Benzo(a)pyrene	252	13.228	13.228	(0.992)	768774	10.0000	10
23 Indeno(1,2,3-cd)pyrene	276	14.943	14.943	(1.121)	814504	10.0000	10(M)
24 Dibenzo(a,h)anthracene	278	14.979	14.979	(1.123)	750999	10.0000	10(H)
25 Benzo(g,h,i)perylene	276	15.407	15.407	(1.156)	773773	10.0000	10(H)

QC Flag Legend

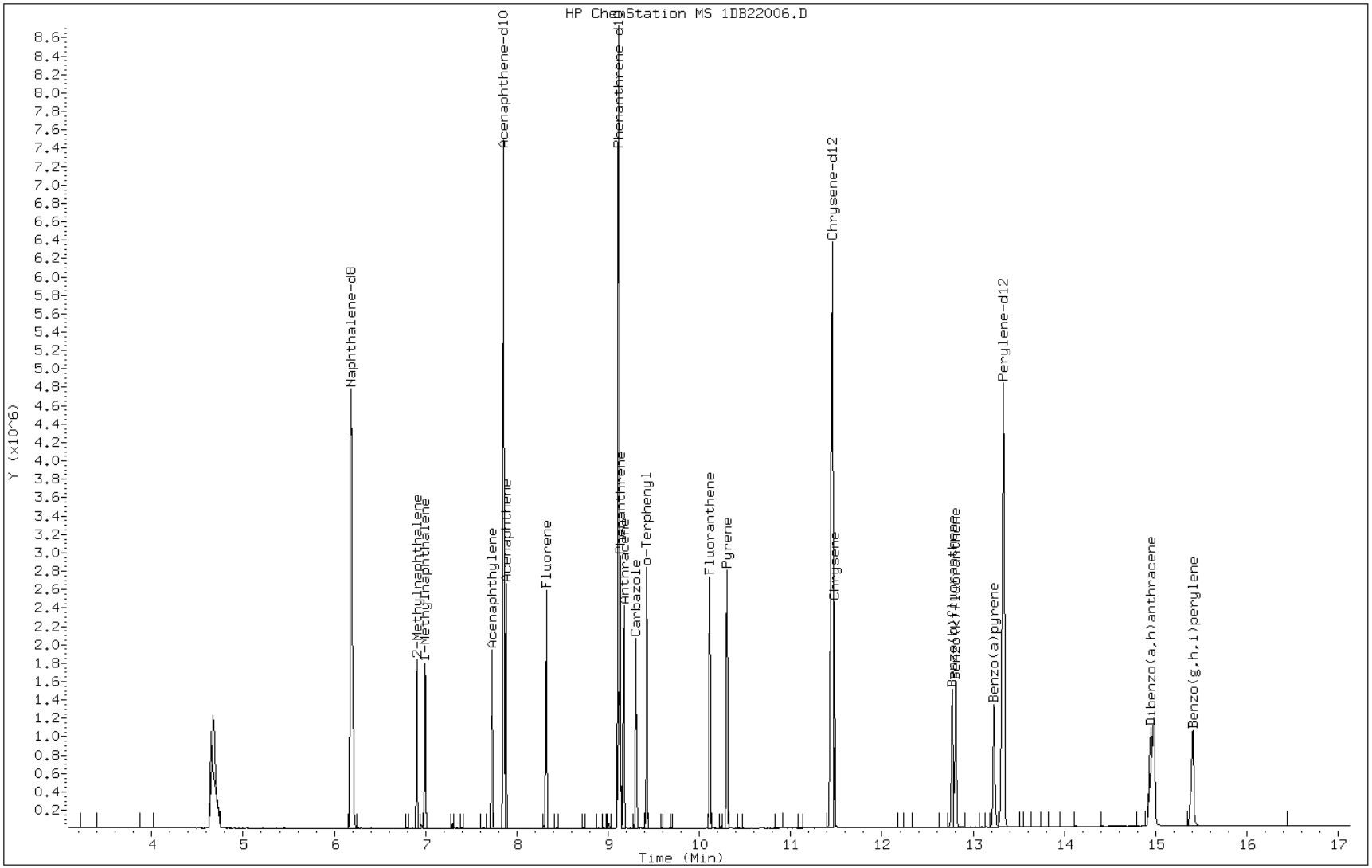
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22006.D

Date: 22-FEB-2013 13:21

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512361 Operator: SCC



Manual Integration Report

Data File: 1DB22006.D
Inj. Date and Time: 22-FEB-2013 13:21
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

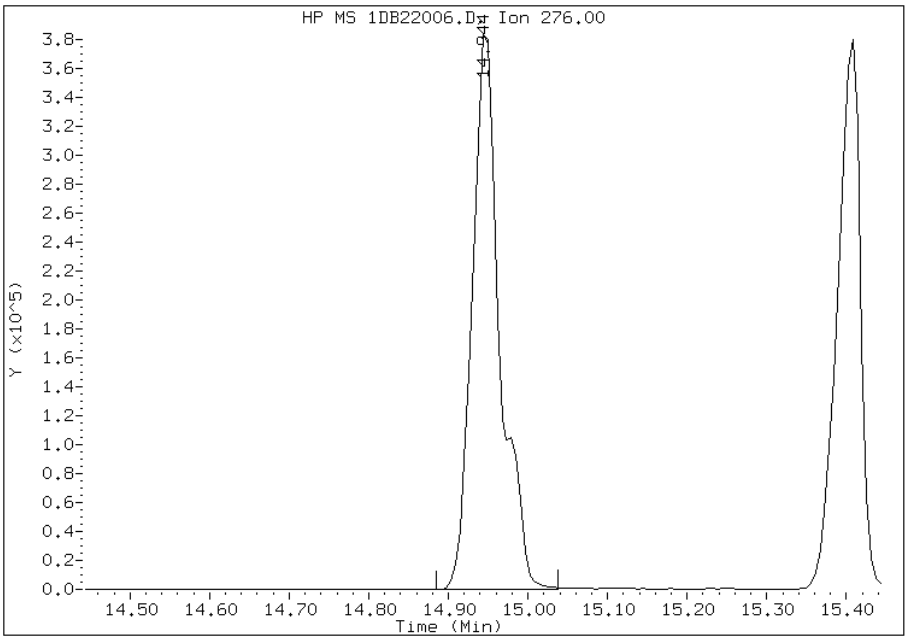
Processing Integration Results

RT: 14.94

Response: 923395

Amount: 11

Conc: 11



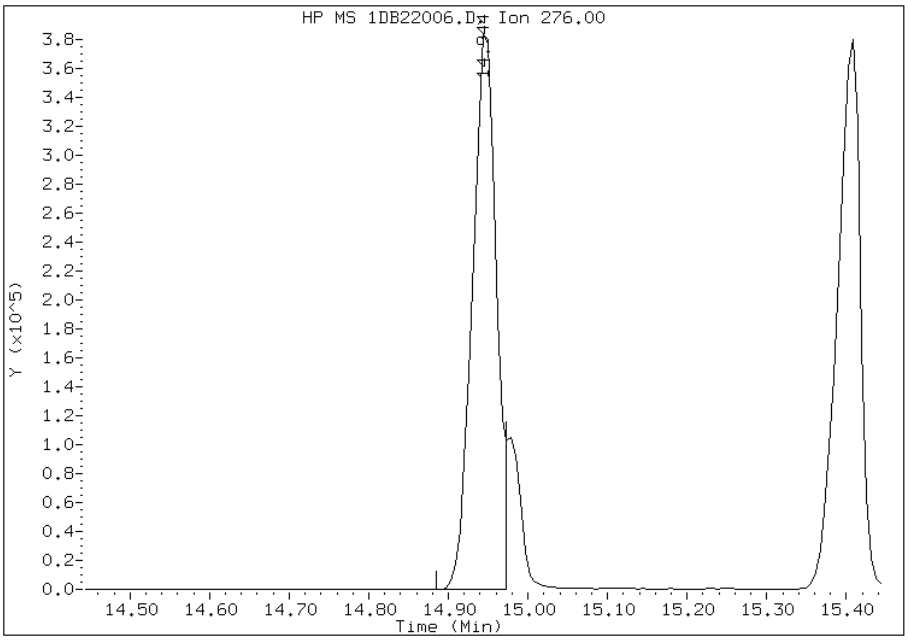
Manual Integration Results

RT: 14.94

Response: 814504

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:59
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:21 Cal File: 1DB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

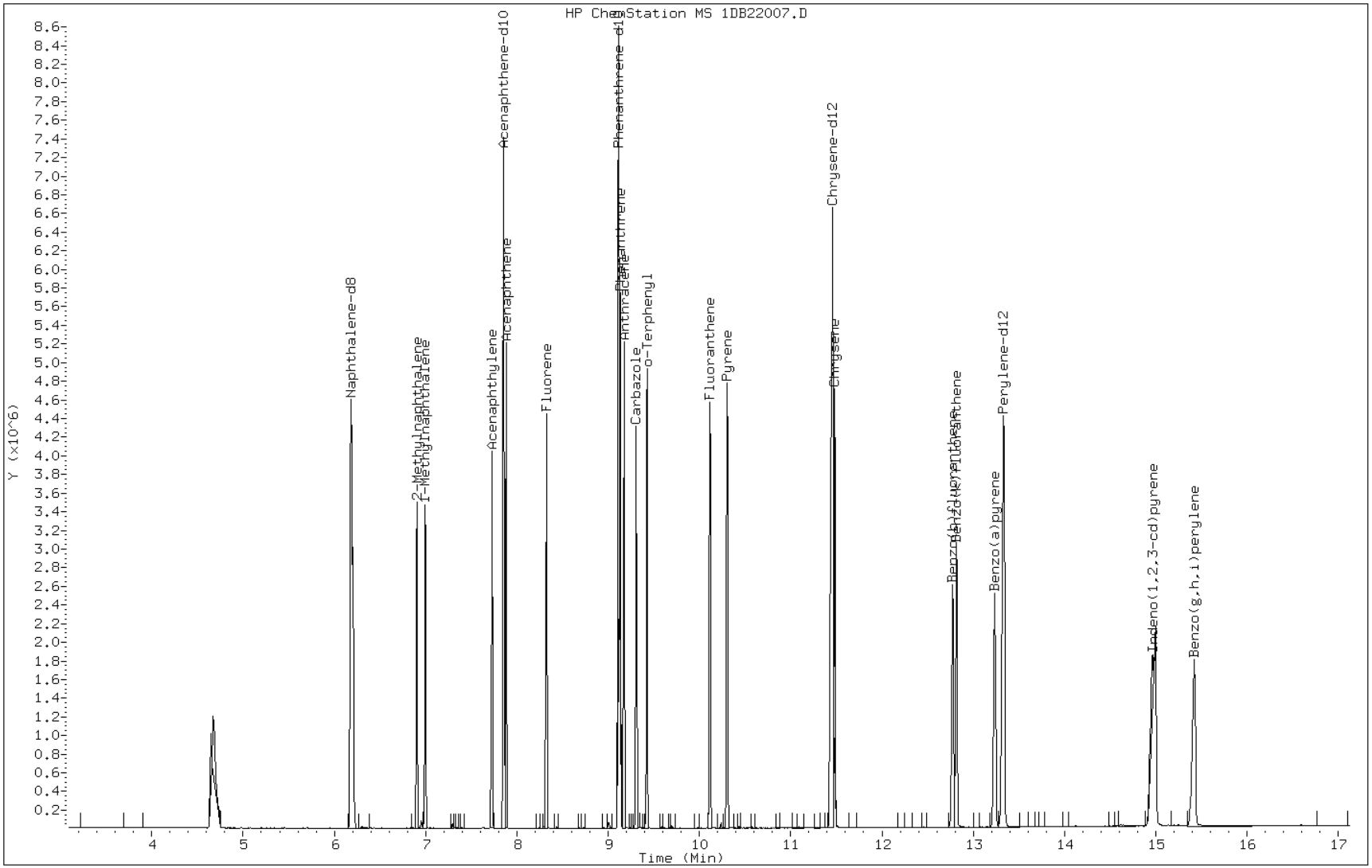
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000	
* 6 Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000	
$ 13 o-Terphenyl	230	9.426	9.426	(1.034)	853642	20.0000	20
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2741766	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2903096	40.0000	
2 Naphthalene	128	6.206	6.206	(1.004)	1508569	20.0000	20
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	965225	20.0000	20
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	911252	20.0000	20
5 Acenaphthylene	152	7.728	7.728	(0.984)	1512937	20.0000	20
7 Acenaphthene	154	7.881	7.881	(1.003)	889006	20.0000	20
8 Fluorene	166	8.321	8.321	(1.059)	1060484	20.0000	20
10 Phenanthrene	178	9.132	9.132	(1.002)	1536701	20.0000	20
11 Anthracene	178	9.173	9.173	(1.006)	1580088	20.0000	20
12 Carbazole	167	9.309	9.309	(1.021)	1404089	20.0000	20
14 Fluoranthene	202	10.114	10.114	(1.110)	1637186	20.0000	20
15 Pyrene	202	10.302	10.302	(0.899)	1722041	20.0000	20
16 Benzo(a)anthracene	228	11.435	11.435	(0.998)	1510209	20.0000	19
18 Chrysene	228	11.482	11.482	(1.002)	1531008	20.0000	20
19 Benzo(b)fluoranthene	252	12.775	12.775	(0.958)	1490545	20.0000	20
20 Benzo(k)fluoranthene	252	12.816	12.816	(0.961)	1582576	20.0000	20
21 Benzo(a)pyrene	252	13.239	13.239	(0.993)	1511646	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.961	14.961	(1.122)	1658275	20.0000	21
24 Dibenzo(a,h)anthracene	278	14.996	14.996	(1.125)	1484721	20.0000	20
25 Benzo(g,h,i)perylene	276	15.425	15.425	(1.157)	1511031	20.0000	20

Data File: 1DB22007.D

Date: 22-FEB-2013 13:43

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1512372 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 14:06
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:43 Cal File: 1DB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2913003	40.0000	
* 6 Acenaphthene-d10	164	7.852	7.852	(1.000)	1720184	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2807552	40.0000	
$ 13 o-Terphenyl	230	9.427	9.427	(1.034)	1297334	30.0000	30
* 17 Chrysene-d12	240	11.460	11.460	(1.000)	2820426	40.0000	
* 22 Perylene-d12	264	13.340	13.340	(1.000)	2972128	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	2298963	30.0000	30
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	1457082	30.0000	29
4 1-Methylnaphthalene	142	7.000	7.000	(1.132)	1381962	30.0000	30
5 Acenaphthylene	152	7.729	7.729	(0.984)	2298195	30.0000	30
7 Acenaphthene	154	7.881	7.881	(1.004)	1357997	30.0000	29
8 Fluorene	166	8.328	8.328	(1.061)	1633465	30.0000	30
10 Phenanthrene	178	9.133	9.133	(1.002)	2324547	30.0000	29
11 Anthracene	178	9.174	9.174	(1.006)	2404366	30.0000	30
12 Carbazole	167	9.309	9.309	(1.021)	2158453	30.0000	30
14 Fluoranthene	202	10.120	10.120	(1.110)	2502381	30.0000	30
15 Pyrene	202	10.308	10.308	(0.900)	2630026	30.0000	30
16 Benzo(a)anthracene	228	11.442	11.442	(0.998)	2334008	30.0000	28
18 Chrysene	228	11.489	11.489	(1.003)	2336752	30.0000	29
19 Benzo(b)fluoranthene	252	12.781	12.781	(0.958)	2331940	30.0000	30
20 Benzo(k)fluoranthene	252	12.828	12.828	(0.962)	2363523	30.0000	30
21 Benzo(a)pyrene	252	13.246	13.246	(0.993)	2336988	30.0000	31
23 Indeno(1,2,3-cd)pyrene	276	14.973	14.973	(1.122)	2546397	30.0000	32
24 Dibenzo(a,h)anthracene	278	15.008	15.008	(1.125)	2275035	30.0000	30(H)
25 Benzo(g,h,i)perylene	276	15.443	15.443	(1.158)	2336152	30.0000	30(H)

QC Flag Legend

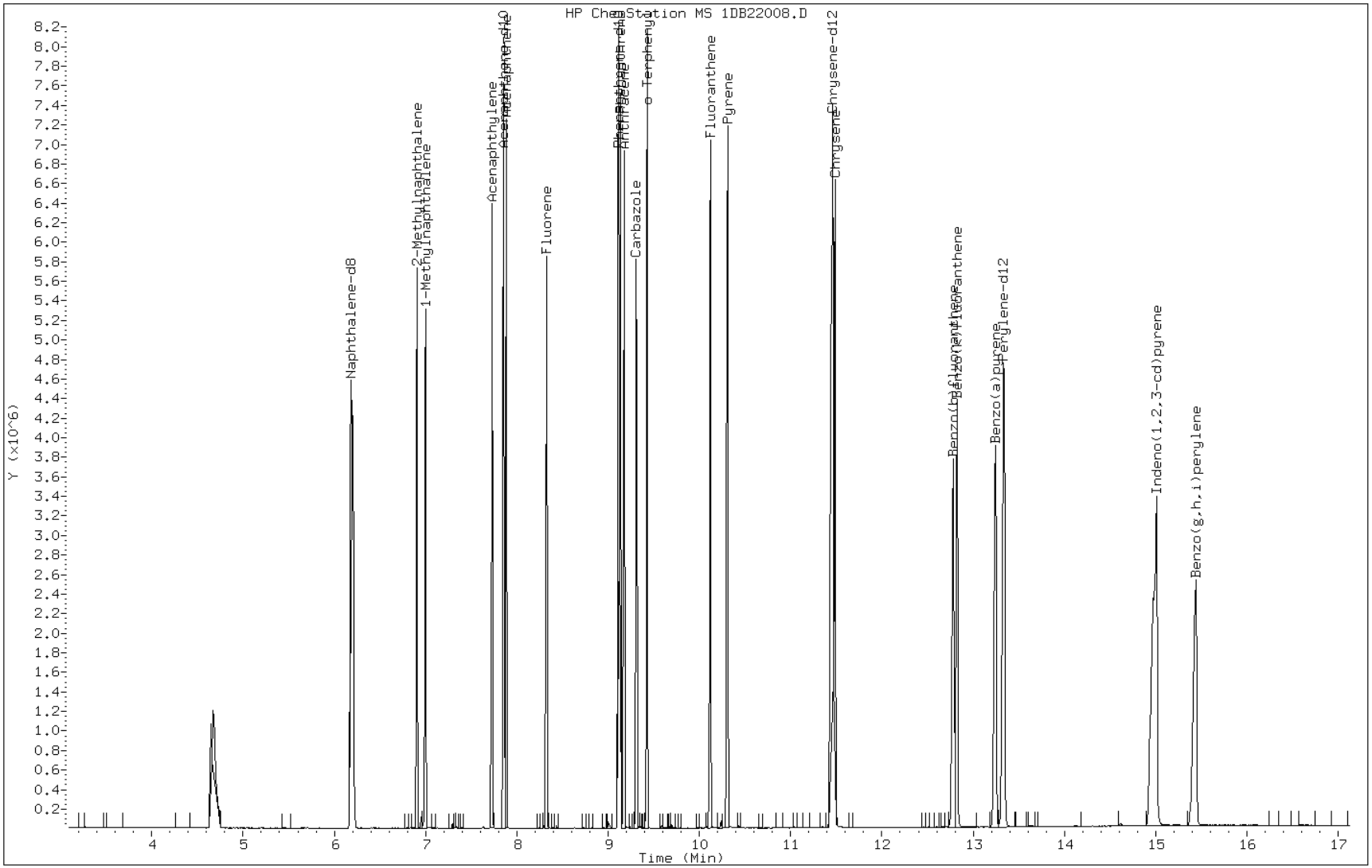
H - Operator selected an alternate compound hit.

Data File: 1DB22008.D

Date: 22-FEB-2013 14:06

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512373 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 14:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:06 Cal File: 1DB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.187	6.187	(1.000)	2844424	40.0000	
* 6 Acenaphthene-d10	164	7.856	7.856	(1.000)	1681359	40.0000	
* 9 Phenanthrene-d10	188	9.113	9.113	(1.000)	2759479	40.0000	
$ 13 o-Terphenyl	230	9.430	9.430	(1.035)	2061660	50.0000	48
* 17 Chrysene-d12	240	11.463	11.463	(1.000)	2783202	40.0000	
* 22 Perylene-d12	264	13.344	13.344	(1.000)	2928183	40.0000	
2 Naphthalene	128	6.205	6.205	(1.003)	3699527	50.0000	49
3 2-Methylnaphthalene	142	6.910	6.910	(1.117)	2392281	50.0000	49
4 1-Methylnaphthalene	142	6.998	6.998	(1.131)	2225072	50.0000	49
5 Acenaphthylene	152	7.732	7.732	(0.984)	3717778	50.0000	50(A)
7 Acenaphthene	154	7.885	7.885	(1.004)	2184846	50.0000	48
8 Fluorene	166	8.326	8.326	(1.060)	2631357	50.0000	50
10 Phenanthrene	178	9.137	9.137	(1.003)	3708574	50.0000	47
11 Anthracene	178	9.184	9.184	(1.008)	3900989	50.0000	50
12 Carbazole	167	9.313	9.313	(1.022)	3485796	50.0000	50
14 Fluoranthene	202	10.124	10.124	(1.111)	3974777	50.0000	49
15 Pyrene	202	10.312	10.312	(0.900)	4199944	50.0000	49
16 Benzo(a)anthracene	228	11.446	11.446	(0.998)	3791270	50.0000	46
18 Chrysene	228	11.499	11.499	(1.003)	3771462	50.0000	48
19 Benzo(b)fluoranthene	252	12.791	12.791	(0.959)	3853307	50.0000	51(A)
20 Benzo(k)fluoranthene	252	12.838	12.838	(0.962)	3832862	50.0000	48
21 Benzo(a)pyrene	252	13.261	13.261	(0.994)	3794269	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276	14.995	14.995	(1.124)	4194422	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278	15.030	15.030	(1.126)	3730665	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276	15.465	15.465	(1.159)	3809441	50.0000	50(AH)

QC Flag Legend

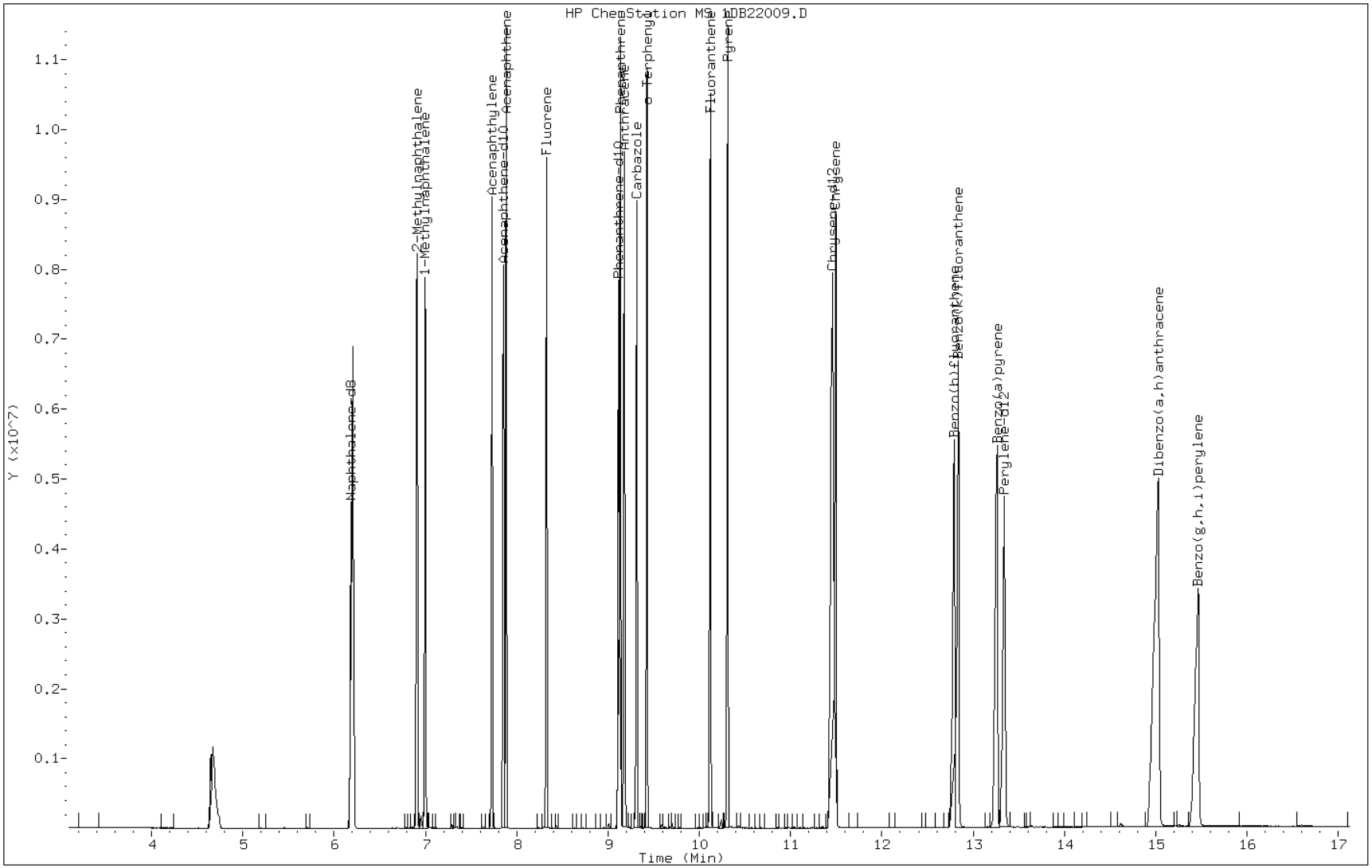
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22009.D

Date: 22-FEB-2013 14:28

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512374 Operator: SCC



Manual Integration Report

Data File: 1DB22009.D
Inj. Date and Time: 22-FEB-2013 14:28
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

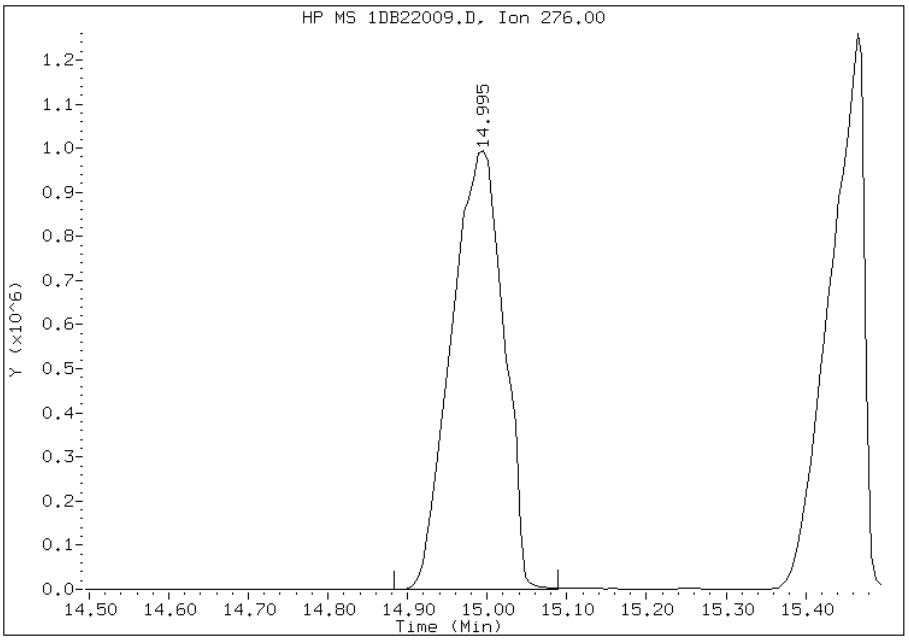
Processing Integration Results

RT: 15.00

Response: 4559640

Amount: 57

Conc: 57



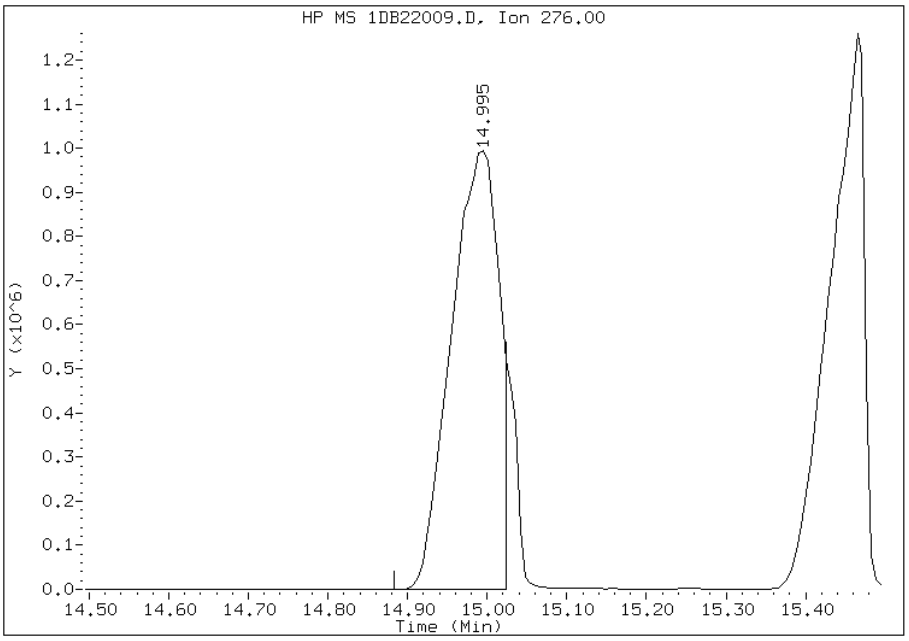
Manual Integration Results

RT: 15.00

Response: 4194422

Amount: 53

Conc: 53



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:00
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06

Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 13:48

Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 14:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1383069	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1075067	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2141313	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	528461	16.3458	16.3457
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2766374	40.0000	
* 23 Perylene-d12	264	9.015	9.016	(1.000)	3034368	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643385	17.8686	17.8685
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	426527	17.7587	17.7586
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	406896	18.6013	18.6013
5 Acenaphthylene	152	4.804	4.804	(0.982)	792099	18.2750	18.2749
7 Acenaphthene	154	4.910	4.910	(1.004)	511893	19.0010	19.0010
9 Fluorene	166	5.233	5.234	(1.070)	612561	17.9790	17.9790
11 Phenanthrene	178	5.863	5.863	(1.003)	1016506	16.4172	16.4171
12 Anthracene	178	5.898	5.898	(1.009)	1040221	17.1782	17.1781
13 Carbazole	167	6.004	6.004	(1.027)	936321	17.3944	17.3943
15 Fluoranthene	202	6.704	6.704	(1.147)	1196804	17.6502	17.6501
16 Pyrene	202	6.874	6.875	(0.882)	1218381	16.3888	16.3887

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1353867	16.9566	16.9566
19 Chrysene	228	7.815	7.822	(1.002)	1268380	15.8740	15.8740
20 Benzo(b)fluoranthene	252	8.656	8.657	(0.960)	1483299	18.7051	18.7050
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1339047	16.4606	16.4605
22 Benzo(a)pyrene	252	8.956	8.963	(0.993)	1205817	15.6548	15.6547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.239	(1.135)	1271997	17.5546	17.5546(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.257	(1.137)	1346652	19.0003	19.0002
26 Benzo(g,h,i)perylene	276	10.597	10.610	(1.175)	1313135	17.3240	17.3240

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22010.D

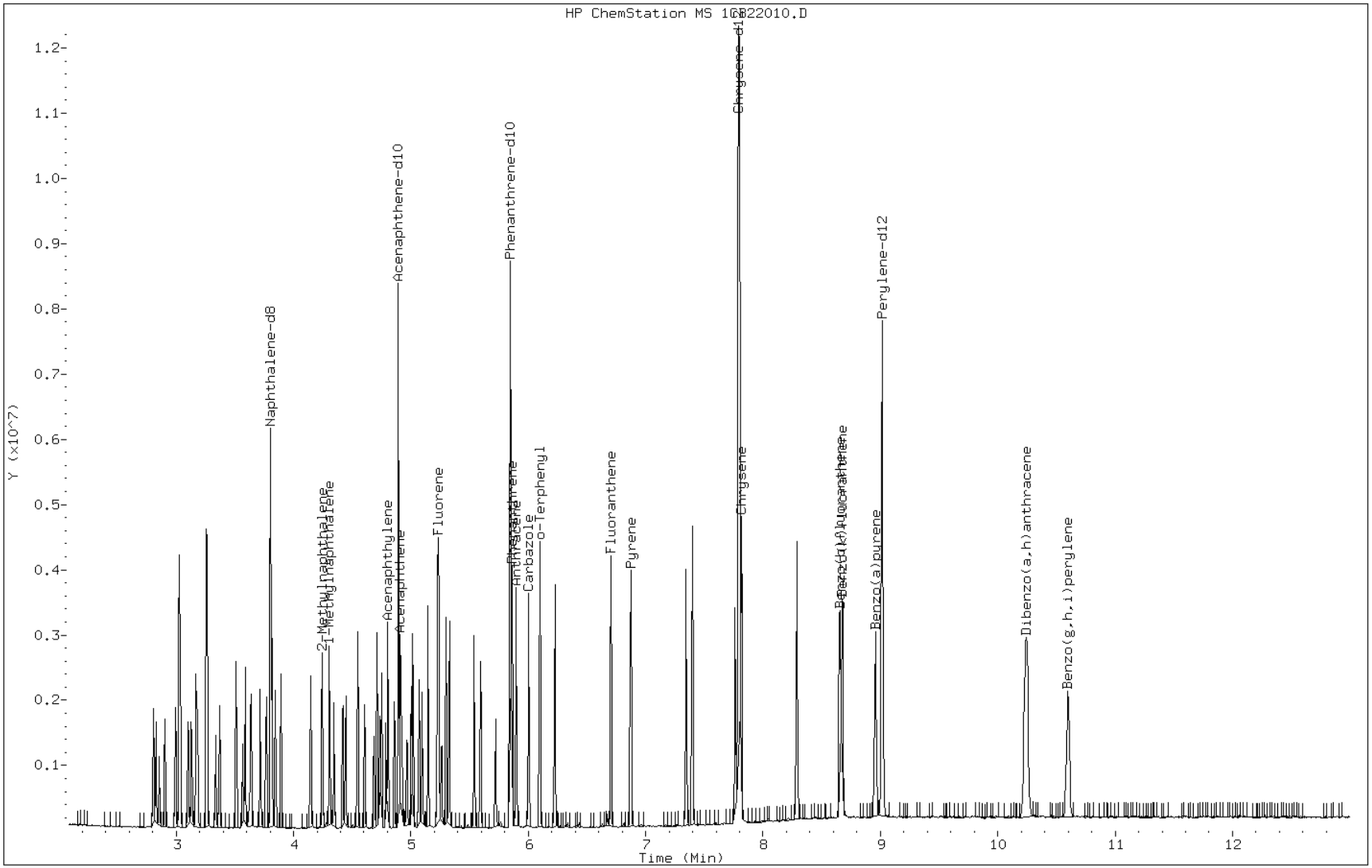
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CB22010.D
Inj. Date and Time: 22-FEB-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

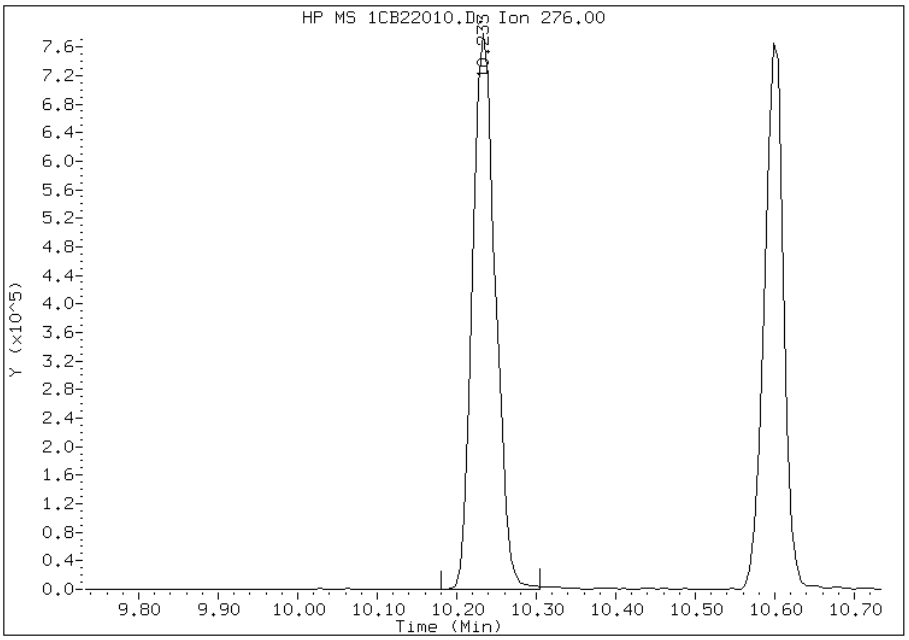
Processing Integration Results

RT: 10.23

Response: 1550656

Amount: 21

Conc: 21



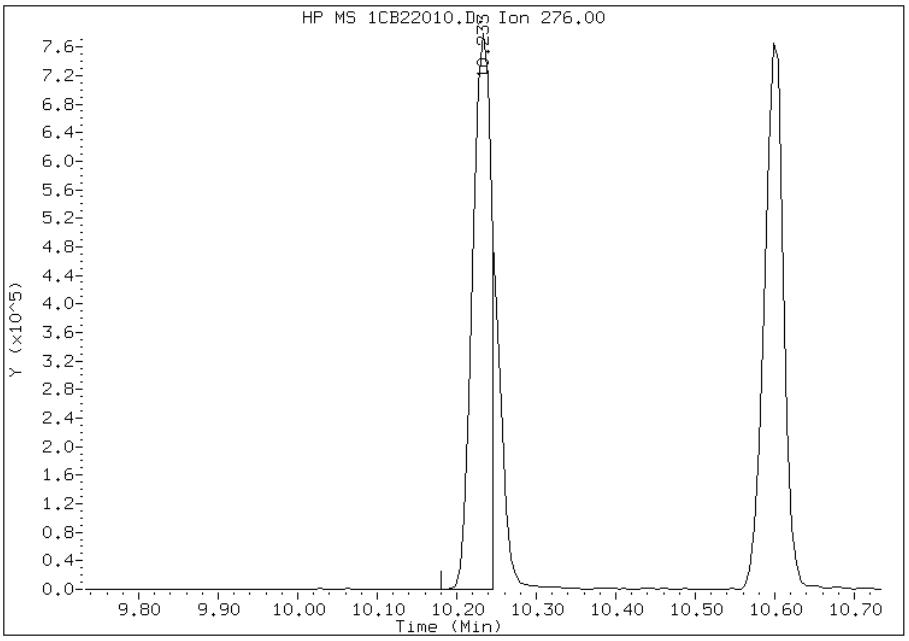
Manual Integration Results

RT: 10.23

Response: 1271997

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:21
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Lab Sample ID: CCVIS 660-134862/3 Calibration Date: 02/26/2013 13:53

Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 13:48

Lab File ID: 1CB26003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.045	0.0000	20100	20000	0.3	20.0
2-Methylnaphthalene	Ave	0.6946	0.6911	0.0000	19900	20000	-0.5	20.0
1-Methylnaphthalene	Ave	0.6326	0.6709	0.0000	21200	20000	6.1	20.0
Acenaphthylene	Ave	1.613	1.589	0.0000	19700	20000	-1.5	20.0
Acenaphthene	Ave	1.002	0.9554	0.0000	19100	20000	-4.7	20.0
Fluorene	Ave	1.268	1.278	0.0000	20200	20000	0.8	20.0
Phenanthrene	Ave	1.157	1.092	0.0000	18900	20000	-5.6	20.0
Anthracene	Ave	1.131	1.099	0.0000	19400	20000	-2.8	20.0
Carbazole	Ave	1.006	0.9847	0.0000	19600	20000	-2.1	20.0
Fluoranthene	Ave	1.267	1.246	0.0000	19700	20000	-1.7	20.0
Pyrene	Ave	1.075	1.088	0.0000	20200	20000	1.2	20.0
Benzo[a]anthracene	Ave	1.154	1.068	0.0000	18500	20000	-7.5	20.0
Chrysene	Ave	1.155	1.083	0.0000	18700	20000	-6.3	20.0
Benzo[b]fluoranthene	Ave	1.045	1.037	0.0000	19800	20000	-0.8	20.0
Benzo[k]fluoranthene	Ave	1.072	1.159	0.0000	21600	20000	8.1	20.0
Benzo[a]pyrene	Ave	1.015	1.027	0.0000	20200	20000	1.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8919	0.0000	18700	20000	-6.6	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8663	0.0000	18500	20000	-7.3	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9243	0.0000	18500	20000	-7.5	20.0
o-Terphenyl	Ave	0.6039	0.6169	0.0000	20400	20000	2.1	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.b\1CB26003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 26-FEB-2013 13:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.b\a-bFASTPAHi-m.m
Meth Date : 26-Feb-2013 14:08 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	3.798	3.798	(1.000)	1293817	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.886	(1.000)	1031051	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2009782	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	619866	20.0000	20.4277
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2524817	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2478619	40.0000	
2 Naphthalene	128	3.810	3.810	(1.003)	675807	20.0000	20.0637
3 2-Methylnaphthalene	142	4.239	4.239	(1.116)	447093	20.0000	19.8990
4 1-Methylnaphthalene	142	4.304	4.304	(1.133)	434020	20.0000	21.2100
5 Acenaphthylene	152	4.804	4.804	(0.983)	819104	20.0000	19.7048
7 Acenaphthene	154	4.910	4.910	(1.005)	492535	20.0000	19.0629
9 Fluorene	166	5.227	5.227	(1.070)	658834	20.0000	20.1626
11 Phenanthrene	178	5.857	5.857	(1.002)	1097137	20.0000	18.8790
12 Anthracene	178	5.892	5.892	(1.008)	1104648	20.0000	19.4360
13 Carbazole	167	5.998	5.998	(1.026)	989467	20.0000	19.5846
15 Fluoranthene	202	6.704	6.704	(1.147)	1251661	20.0000	19.6672
16 Pyrene	202	6.868	6.868	(0.881)	1373480	20.0000	20.2426
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	1348694	20.0000	18.5079
19 Chrysene	228	7.815	7.815	(1.002)	1367121	20.0000	18.7467
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	1285578	20.0000	19.8466
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	1436820	20.0000	21.6226
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	1272540	20.0000	20.2252
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	1105385	20.0000	18.6757(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	1073567	20.0000	18.5435
26 Benzo(g,h,i)perylene	276	10.597	10.597	(1.175)	1145448	20.0000	18.5000

QC Flag Legend

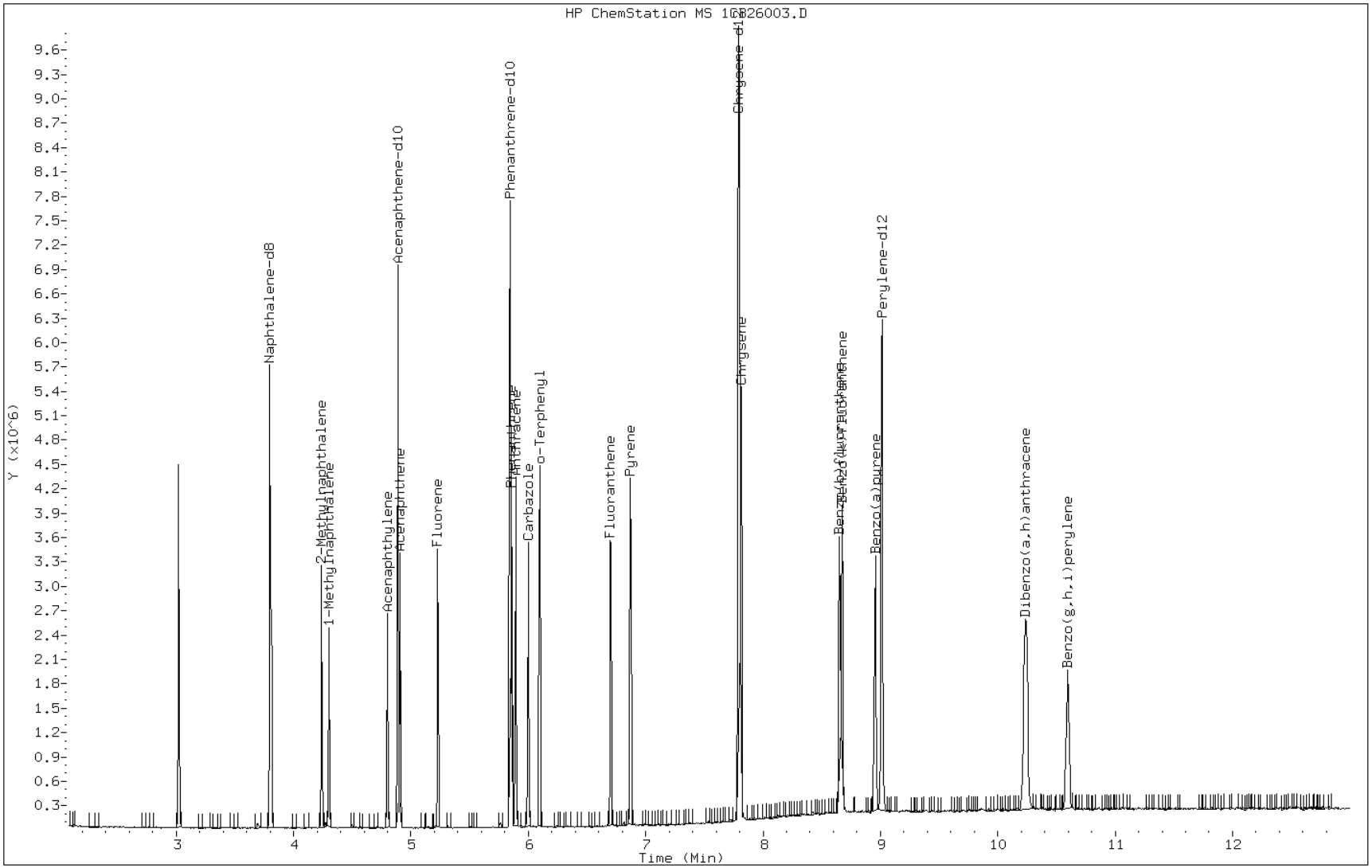
M - Compound response manually integrated.

Data File: 1CB26003.D

Date: 26-FEB-2013 13:53

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CB26003.D
Inj. Date and Time: 26-FEB-2013 13:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

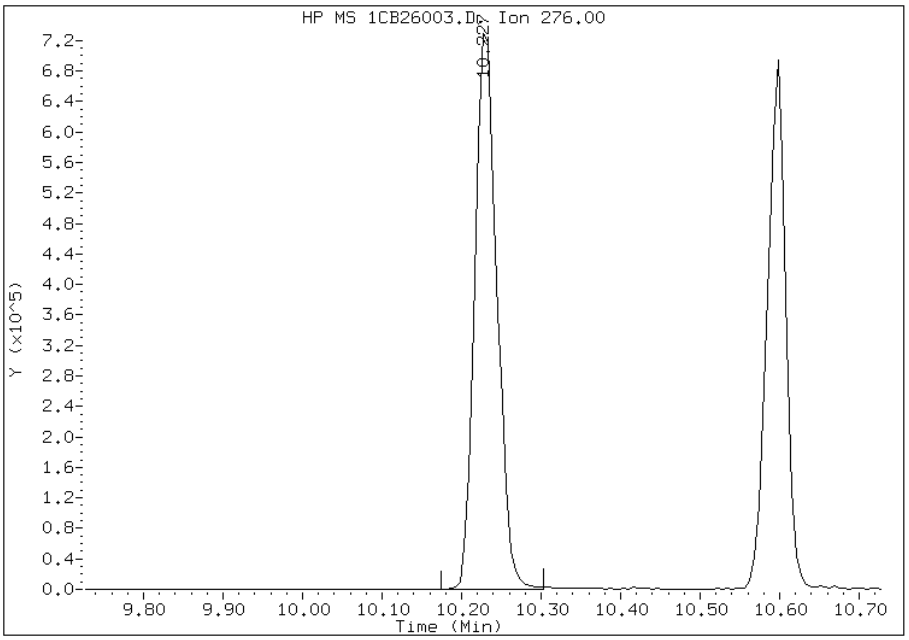
Processing Integration Results

RT: 10.23

Response: 1407093

Amount: 24

Conc: 24



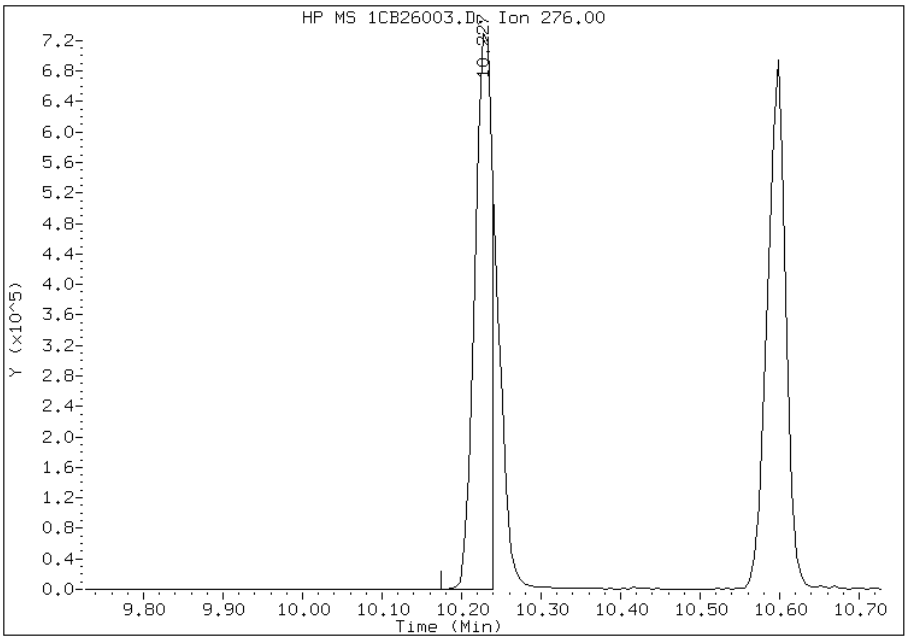
Manual Integration Results

RT: 10.23

Response: 1105385

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 14:08
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Lab Sample ID: ICV 660-134781/10 Calibration Date: 02/22/2013 14:51

Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 14:28

Lab File ID: 1DB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	0.9509	0.0000	17800	20000	-11.1	35.0
2-Methylnaphthalene	Ave	0.6816	0.6138	0.0000	18000	20000	-9.9	35.0
1-Methylnaphthalene	Ave	0.6383	0.5884	0.0000	18400	20000	-7.8	35.0
Acenaphthylene	Ave	1.764	1.543	0.0000	17500	20000	-12.5	35.0
Acenaphthene	Ave	1.075	0.9046	0.0000	16800	20000	-15.9	35.0
Fluorene	Ave	1.256	1.107	0.0000	17600	20000	-11.9	35.0
Phenanthrene	Ave	1.135	0.9678	0.0000	17000	20000	-14.8	35.0
Anthracene	Ave	1.136	0.9920	0.0000	17500	20000	-12.7	35.0
Carbazole	Ave	1.016	0.8513	0.0000	16800	20000	-16.2	35.0
Fluoranthene	Ave	1.185	1.044	0.0000	17600	20000	-11.9	35.0
Pyrene	Ave	1.241	1.040	0.0000	16800	20000	-16.1	35.0
Benzo[a]anthracene	LinF	1.184	1.006	0.0000	18400	20000	-8.1	35.0
Chrysene	Ave	1.131	0.9327	0.0000	16500	20000	-17.5	35.0
Benzo[b]fluoranthene	Ave	1.030	0.9311	0.0000	18100	20000	-9.6	35.0
Benzo[k]fluoranthene	Ave	1.078	0.9609	0.0000	17800	20000	-10.9	35.0
Benzo[a]pyrene	Ave	1.019	0.8258	0.0000	16200	20000	-19.0	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9629	0.0000	17700	20000	-11.4	35.0
Dibenz(a,h)anthracene	Ave	1.004	0.9897	0.0000	19700	20000	-1.4	35.0
Benzo[g,h,i]perylene	Ave	1.037	0.9265	0.0000	17900	20000	-10.6	35.0
o-Terphenyl	Ave	0.6186	0.5223	0.0000	16900	20000	-15.6	35.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 14:51
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136	6.186	6.188	(1.000)	3227519	40.0000	
* 6 Acenaphthene-d10	164	7.861	7.856	(1.000)	1973397	40.0000	
* 9 Phenanthrene-d10	188	9.118	9.114	(1.000)	3226971	40.0000	
$ 13 o-Terphenyl	230	9.424	9.431	(1.034)	842705	16.8872	17
* 17 Chrysene-d12	240	11.463	11.464	(1.000)	3262056	40.0000	
* 22 Perylene-d12	264	13.343	13.344	(1.000)	3389756	40.0000	
2 Naphthalene	128	6.204	6.205	(1.003)	1534495	17.7730	18
3 2-Methylnaphthalene	142	6.903	6.910	(1.116)	990529	18.0102	18
4 1-Methylnaphthalene	142	6.997	6.999	(1.131)	949525	18.4366	18
5 Acenaphthylene	152	7.732	7.733	(0.984)	1522763	17.5026	18
7 Acenaphthene	154	7.884	7.886	(1.003)	892518	16.8249	17
8 Fluorene	166	8.325	8.326	(1.059)	1091870	17.6166	18
10 Phenanthrene	178	9.136	9.137	(1.002)	1561459	17.0459	17
11 Anthracene	178	9.177	9.184	(1.006)	1600546	17.4635	17
12 Carbazole	167	9.324	9.313	(1.023)	1373599	16.7651	17(M)
14 Fluoranthene	202	10.117	10.124	(1.110)	1683952	17.6156	18
15 Pyrene	202	10.305	10.312	(0.899)	1697011	16.7712	17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.439	11.446	(0.998)	1641298	18.3780	18
18 Chrysene	228	11.486	11.499	(1.002)	1521333	16.5002	16
19 Benzo(b)fluoranthene	252	12.779	12.792	(0.958)	1578092	18.0867	18
20 Benzo(k)fluoranthene	252	12.820	12.839	(0.961)	1628670	17.8278	18
21 Benzo(a)pyrene	252	13.243	13.262	(0.993)	1399541	16.2092	16
23 Indeno(1,2,3-cd)pyrene	276	14.964	14.995	(1.122)	1631960	17.7111	18(H)
24 Dibenzo(a,h)anthracene	278	15.000	15.030	(1.124)	1677351	19.7111	20
25 Benzo(g,h,i)perylene	276	15.428	15.465	(1.156)	1570269	17.8738	18

QC Flag Legend

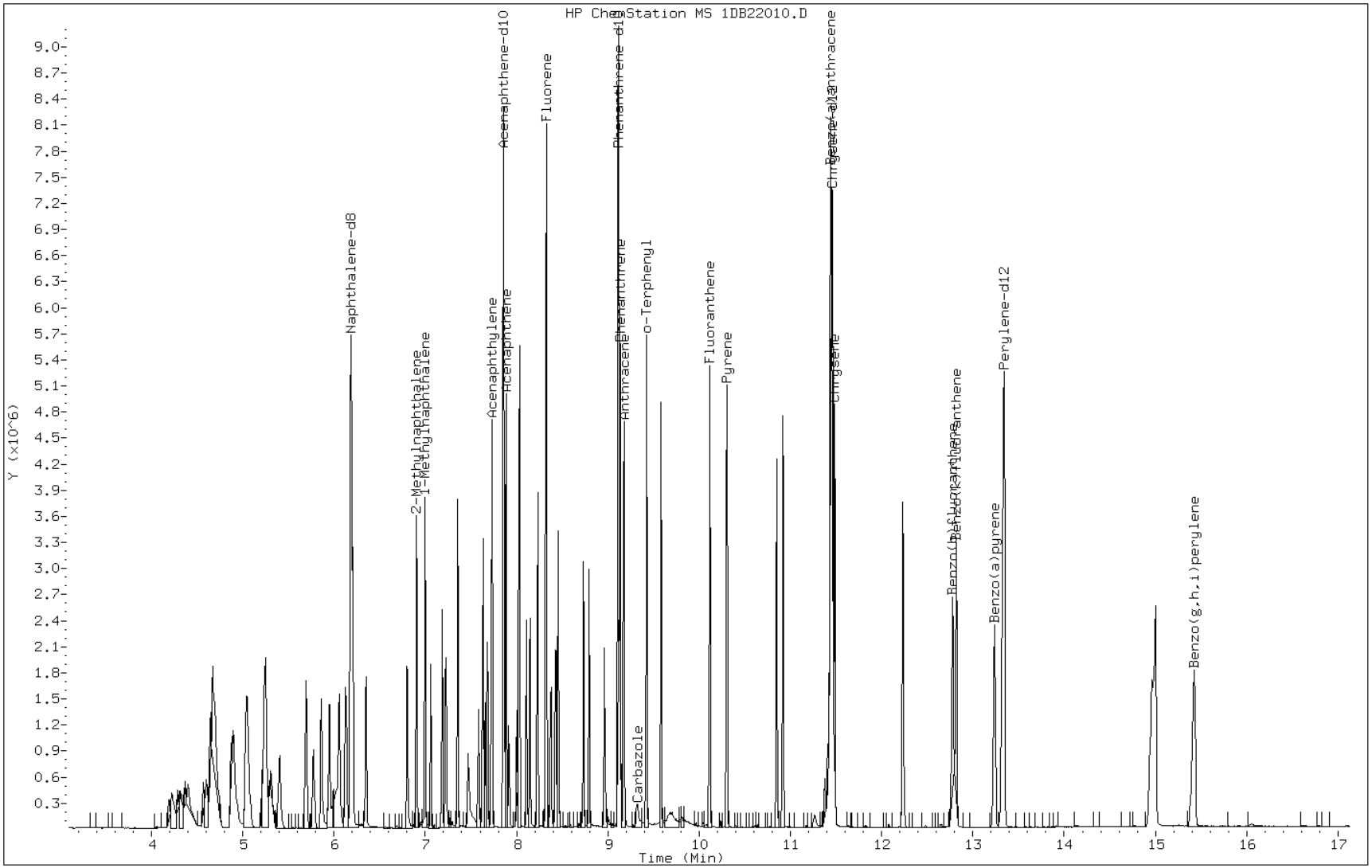
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22010.D

Date: 22-FEB-2013 14:51

Client ID: Instrument: BSMSD.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1DB22010.D
Inj. Date and Time: 22-FEB-2013 14:51
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 02/22/2013

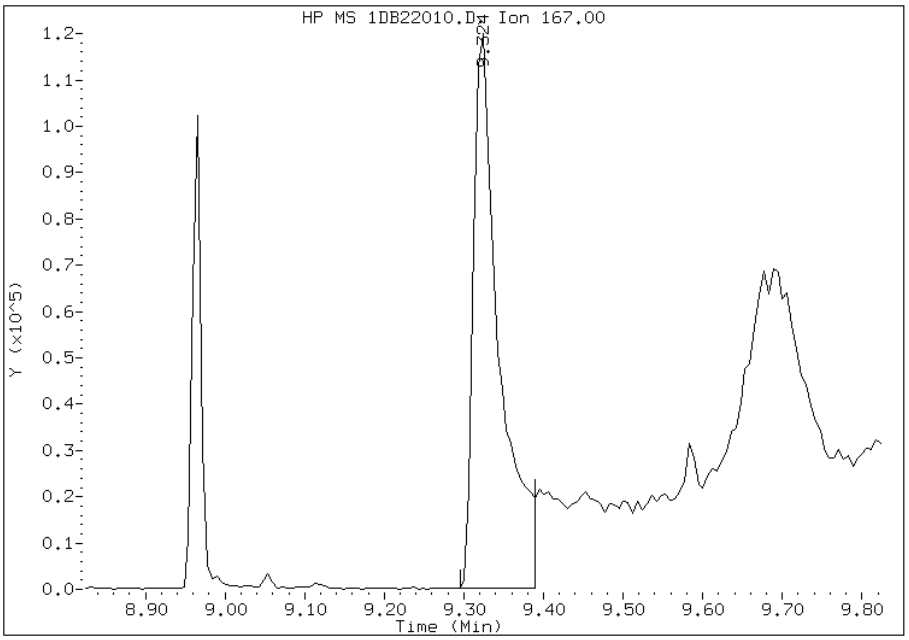
Processing Integration Results

RT: 9.32

Response: 270307

Amount: 3

Conc: 3



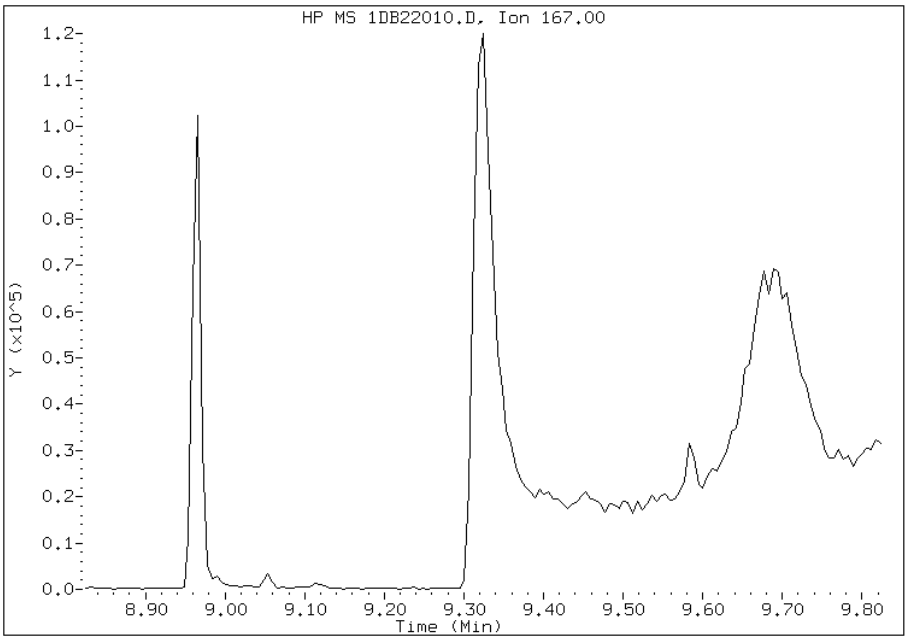
Manual Integration Results

RT: 9.32

Response: 1373599

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:27
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Lab Sample ID: CCVIS 660-134863/3 Calibration Date: 02/26/2013 14:04

Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 14:28

Lab File ID: 1DB26003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.057	0.0000	19800	20000	-1.2	20.0
2-Methylnaphthalene	Ave	0.6816	0.6749	0.0000	19800	20000	-1.0	20.0
1-Methylnaphthalene	Ave	0.6383	0.6362	0.0000	19900	20000	-0.3	20.0
Acenaphthylene	Ave	1.764	1.778	0.0000	20200	20000	0.8	20.0
Acenaphthene	Ave	1.075	1.067	0.0000	19900	20000	-0.7	20.0
Fluorene	Ave	1.256	1.274	0.0000	20300	20000	1.4	20.0
Phenanthrene	Ave	1.135	1.110	0.0000	19500	20000	-2.3	20.0
Anthracene	Ave	1.136	1.160	0.0000	20400	20000	2.1	20.0
Carbazole	Ave	1.016	1.036	0.0000	20400	20000	2.0	20.0
Fluoranthene	Ave	1.185	1.196	0.0000	20200	20000	0.9	20.0
Pyrene	Ave	1.241	1.224	0.0000	19700	20000	-1.4	20.0
Benzo[a]anthracene	LinF	1.184	1.098	0.0000	20100	20000	0.3	20.0
Chrysene	Ave	1.131	1.103	0.0000	19500	20000	-2.5	20.0
Benzo[b]fluoranthene	Ave	1.030	1.044	0.0000	20300	20000	1.4	20.0
Benzo[k]fluoranthene	Ave	1.078	1.054	0.0000	19500	20000	-2.3	20.0
Benzo[a]pyrene	Ave	1.019	1.047	0.0000	20500	20000	2.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	1.144	0.0000	21000	20000	5.2	20.0
Dibenz(a,h)anthracene	Ave	1.004	1.028	0.0000	20500	20000	2.4	20.0
Benzo[g,h,i]perylene	Ave	1.037	1.050	0.0000	20300	20000	1.3	20.0
o-Terphenyl	Ave	0.6186	0.6415	0.0000	20700	20000	3.7	20.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 26-FEB-2013 14:04
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\dFASTPAHi.m
Meth Date : 26-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	6.184	6.184	(1.000)	2918576	40.0000	
* 6 Acenaphthene-d10	164	7.859	7.859	(1.000)	1762993	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.116	(1.000)	2957631	40.0000	
$ 13 o-Terphenyl	230	9.427	9.427	(1.034)	948630	20.0000	21
* 17 Chrysene-d12	240	11.466	11.466	(1.000)	3097647	40.0000	
* 22 Perylene-d12	264	13.352	13.352	(1.000)	3318264	40.0000	
2 Naphthalene	128	6.208	6.208	(1.004)	1542047	20.0000	20
3 2-Methylnaphthalene	142	6.907	6.907	(1.117)	984893	20.0000	20
4 1-Methylnaphthalene	142	7.001	7.001	(1.132)	928414	20.0000	20
5 Acenaphthylene	152	7.729	7.729	(0.984)	1567518	20.0000	20
7 Acenaphthene	154	7.882	7.882	(1.003)	940850	20.0000	20
8 Fluorene	166	8.329	8.329	(1.060)	1123108	20.0000	20
10 Phenanthrene	178	9.139	9.139	(1.003)	1641299	20.0000	20
11 Anthracene	178	9.181	9.181	(1.007)	1714892	20.0000	20
12 Carbazole	167	9.316	9.316	(1.022)	1532106	20.0000	20
14 Fluoranthene	202	10.121	10.121	(1.110)	1767953	20.0000	20
15 Pyrene	202	10.309	10.309	(0.899)	1895748	20.0000	20
16 Benzo(a)anthracene	228	11.448	11.448	(0.998)	1700855	20.0000	20
18 Chrysene	228	11.495	11.495	(1.003)	1708144	20.0000	20
19 Benzo(b)fluoranthene	252	12.788	12.788	(0.958)	1732278	20.0000	20
20 Benzo(k)fluoranthene	252	12.829	12.829	(0.961)	1748016	20.0000	20
21 Benzo(a)pyrene	252	13.252	13.252	(0.993)	1736900	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.980	14.980	(1.122)	1897590	20.0000	21(H)
24 Dibenzo(a,h)anthracene	278	15.015	15.015	(1.125)	1705526	20.0000	20
25 Benzo(g,h,i)perylene	276	15.450	15.450	(1.157)	1741879	20.0000	20

QC Flag Legend

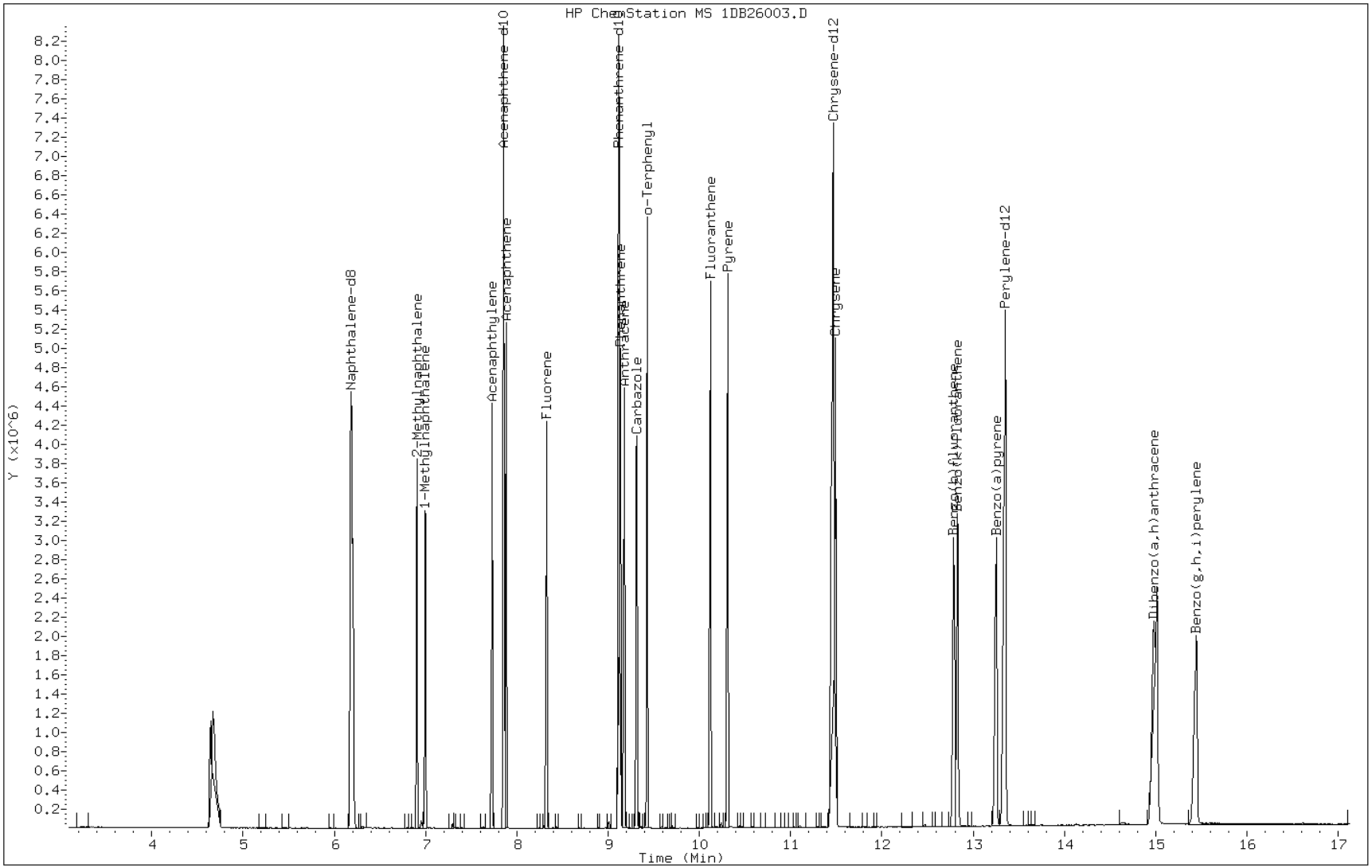
H - Operator selected an alternate compound hit.

Data File: 1DB26003.D

Date: 26-FEB-2013 14:04

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1512372 Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 11:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

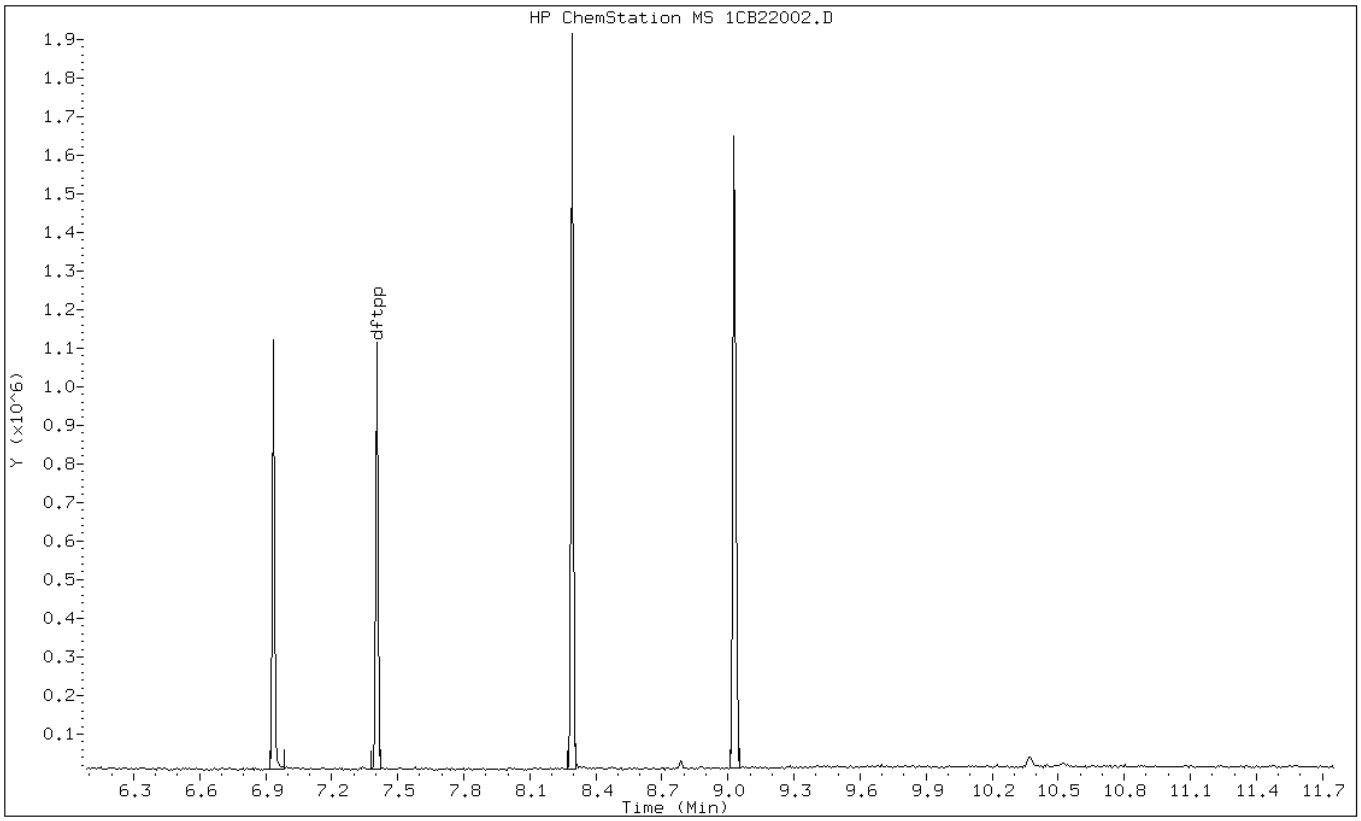
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.404	7.469	-0.065	198	73440			50.00- 0.00	100.00
7.404	7.469	-0.065	51	31096			10.00- 80.00	42.34
7.404	7.469	-0.065	68	471			0.00- 2.00	1.08
7.404	7.469	-0.065	69	43512			0.00- 0.00	59.25
7.404	7.469	-0.065	70	192			0.00- 2.00	0.44
7.404	7.469	-0.065	127	39368			10.00- 80.00	53.61
7.404	7.469	-0.065	197	733			0.00- 2.00	1.00
7.404	7.469	-0.065	442	38240			50.00- 0.00	52.07
7.404	7.469	-0.065	199	6330			5.00- 9.00	8.62
7.404	7.469	-0.065	275	14104			10.00- 60.00	19.20
7.404	7.469	-0.065	365	1462			1.00- 0.00	1.99
7.404	7.469	-0.065	441	5496			0.01- 99.99	86.06
7.404	7.469	-0.065	443	6386			15.00- 24.00	16.70

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



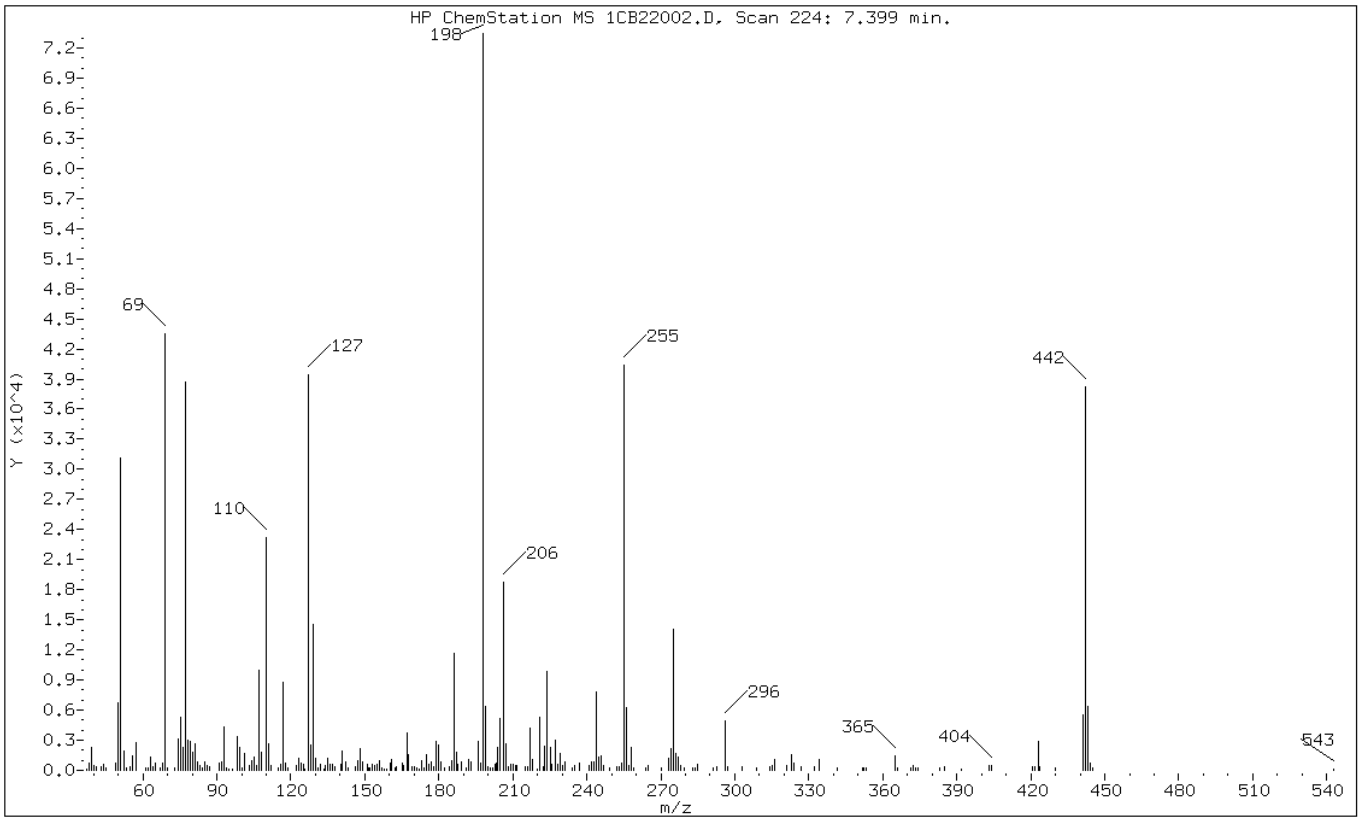
Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.34
68	Less than 2.00% of mass 69	0.64 (1.08)
69	Mass 69 relative abundance	59.25
70	Less than 2.00% of mass 69	0.26 (0.44)
127	10.00 - 80.00% of mass 198	53.61
197	Less than 2.00% of mass 198	1.00
442	Greater than 50.00% of mass 198	52.07
199	5.00 - 9.00% of mass 198	8.62
275	10.00 - 60.00% of mass 198	19.20
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	7.48
443	15.00 - 24.00% of mass 442	8.70 (16.70)

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22002.D
Spectrum: HP ChemStation MS 1CB22002.D, Scan 224: 7.399 min.
Location of Maximum: 198.00
Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	176	115.10	214	181.00	901	256.00	6303
38.10	755	116.00	605	182.10	220	256.90	429
39.10	2229	117.00	8730	184.00	307	257.90	2280
40.10	531	117.90	749	185.10	1015	258.90	258
41.10	318	119.00	225	186.10	11683	263.90	210
42.90	335	122.00	424	187.10	1756	265.00	509
44.00	648	123.00	1147	187.90	552	270.00	205
45.20	211	124.10	749	188.90	869	273.00	1169
49.10	738	125.10	635	191.00	237	274.00	2122
50.10	6757	125.80	170	192.00	1104	275.00	14104
51.10	31096	127.10	39368	193.10	865	275.90	1652
52.10	1930	128.10	2564	196.00	2872	277.00	1264
53.20	277	129.00	14531	196.90	733	277.90	505
55.00	369	129.80	1177	198.00	73440	279.70	194
56.00	1418	131.00	276	199.00	6330	283.00	190
57.00	2762	132.10	570	199.90	373	283.80	183
61.00	226	133.20	171	201.00	298	285.00	556
62.00	292	134.10	490	201.60	269	291.10	200
63.20	1348	135.10	1144	202.90	583	292.90	373
64.00	333	136.10	602	203.30	687	296.00	4941
65.10	737	137.00	557	204.00	2340	297.00	339
66.90	287	137.80	323	205.00	5123	302.90	397
67.80	471	140.10	644	206.10	18696	308.90	282
68.20	663	141.00	1972	207.10	2615	314.00	365
69.10	43512	142.00	851	208.00	418	315.10	502
70.00	192	143.10	211	209.00	555	316.10	1036
73.10	186	146.10	337	210.30	624	321.00	472
74.10	3155	147.00	919	210.90	494	323.00	1518
75.10	5232	148.00	2159	211.60	459	324.00	680
76.10	2236	149.00	790	214.90	324	327.10	397
77.10	38720	151.00	613	215.80	325	332.10	308
78.10	3056	151.70	298	217.00	4236	334.20	1026
79.10	2911	152.20	189	218.00	1088	341.30	184
80.00	1751	153.00	575	220.00	170	351.80	221
81.10	2627	154.10	436	221.10	5285	352.40	258
82.00	869	155.10	587	222.20	336	353.20	226
83.10	502	156.00	912	222.80	2398	364.90	1462
83.90	288	156.80	189	224.00	9837	365.90	266
85.00	785	158.00	151	225.10	2230	371.10	209
86.10	533	158.90	165	226.00	626	372.10	462

87.10	324	160.10	719	227.00	3030	373.10	210
91.10	726	160.90	1140	228.00	610	374.50	233
91.90	792	162.10	280	229.00	1664	383.20	274
93.10	4314	162.70	420	230.00	453	384.80	322
94.00	297	165.00	758	231.00	869	391.80	159
95.00	178	165.90	506	234.00	203	402.90	522
96.10	155	167.00	3698	234.90	491	404.10	524
98.10	3307	167.80	1598	236.90	687	420.90	334
99.10	2331	169.10	332	240.80	432	421.80	348
100.00	203	170.20	321	242.00	793	423.00	2839
101.00	1667	171.10	292	242.90	893	423.80	381
103.00	538	171.80	156	244.00	7817	430.10	181
104.10	935	173.20	904	245.00	1351	441.00	5496
105.10	1280	174.10	287	246.00	1390	442.00	38240
106.20	492	175.00	1609	246.80	435	443.10	6386
107.00	9992	176.00	544	249.00	291	444.00	706
108.00	1788	177.10	810	252.10	410	444.90	181
110.00	23216	177.80	349	252.90	317	542.80	156
111.10	2593	179.10	2922	253.90	662		
112.10	540	180.00	2572	255.00	40344		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.b\1CB26002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 26-FEB-2013 13:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.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

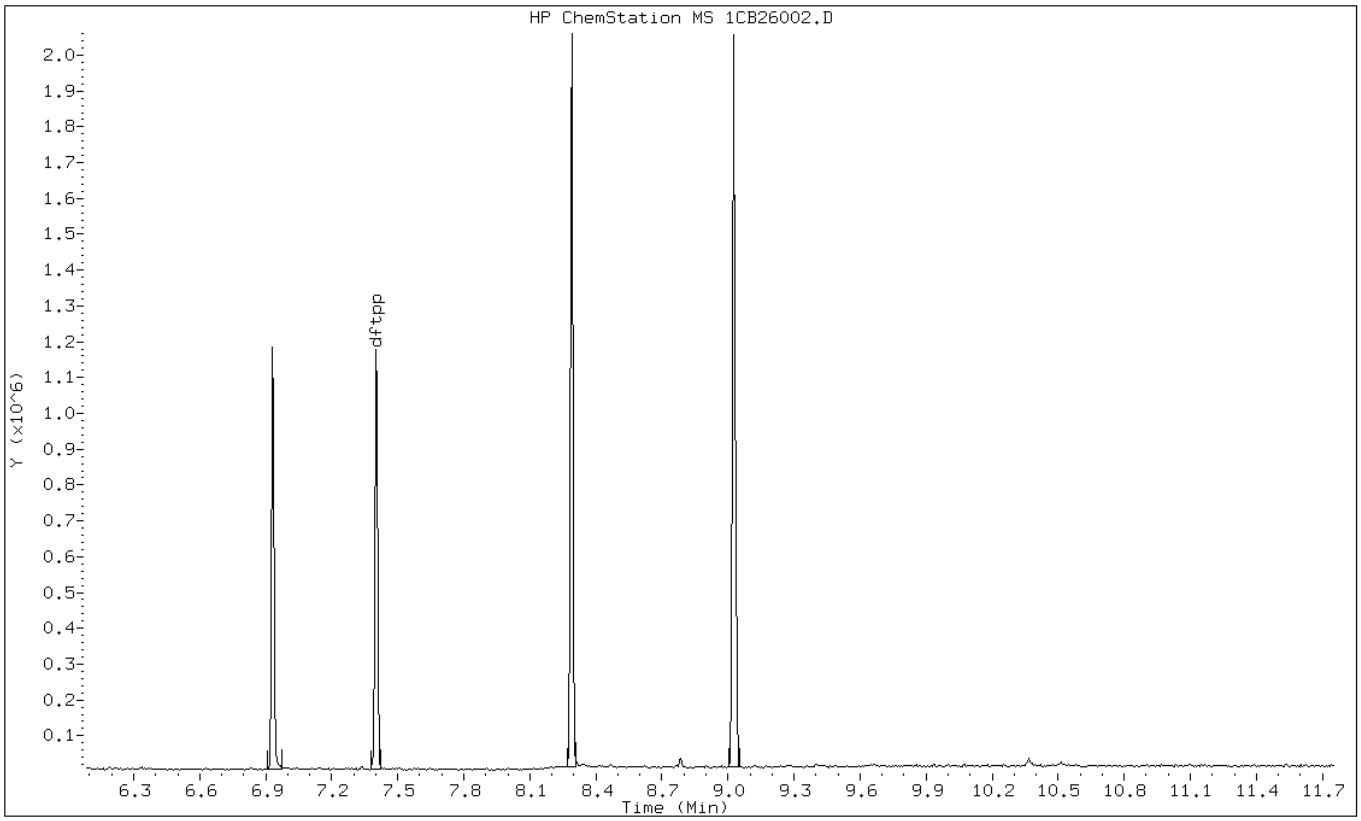
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.398	7.469	-0.071	198	148480			50.00- 0.00	100.00
7.398	7.469	-0.071	51	49656			10.00- 80.00	33.44
7.398	7.469	-0.071	68	780			0.00- 2.00	1.13
7.398	7.469	-0.071	69	68736			0.00- 0.00	46.29
7.398	7.469	-0.071	70	193			0.00- 2.00	0.28
7.398	7.469	-0.071	127	65432			10.00- 80.00	44.07
7.398	7.469	-0.071	197	1331			0.00- 2.00	0.90
7.398	7.469	-0.071	442	87512			50.00- 0.00	58.94
7.398	7.469	-0.071	199	8651			5.00- 9.00	5.83
7.398	7.469	-0.071	275	26088			10.00- 60.00	17.57
7.398	7.469	-0.071	365	4500			1.00- 0.00	3.03
7.398	7.469	-0.071	441	13587			0.01- 99.99	73.87
7.398	7.469	-0.071	443	18392			15.00- 24.00	21.02

Data File: 1CB26002.D

Date: 26-FEB-2013 13:36

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



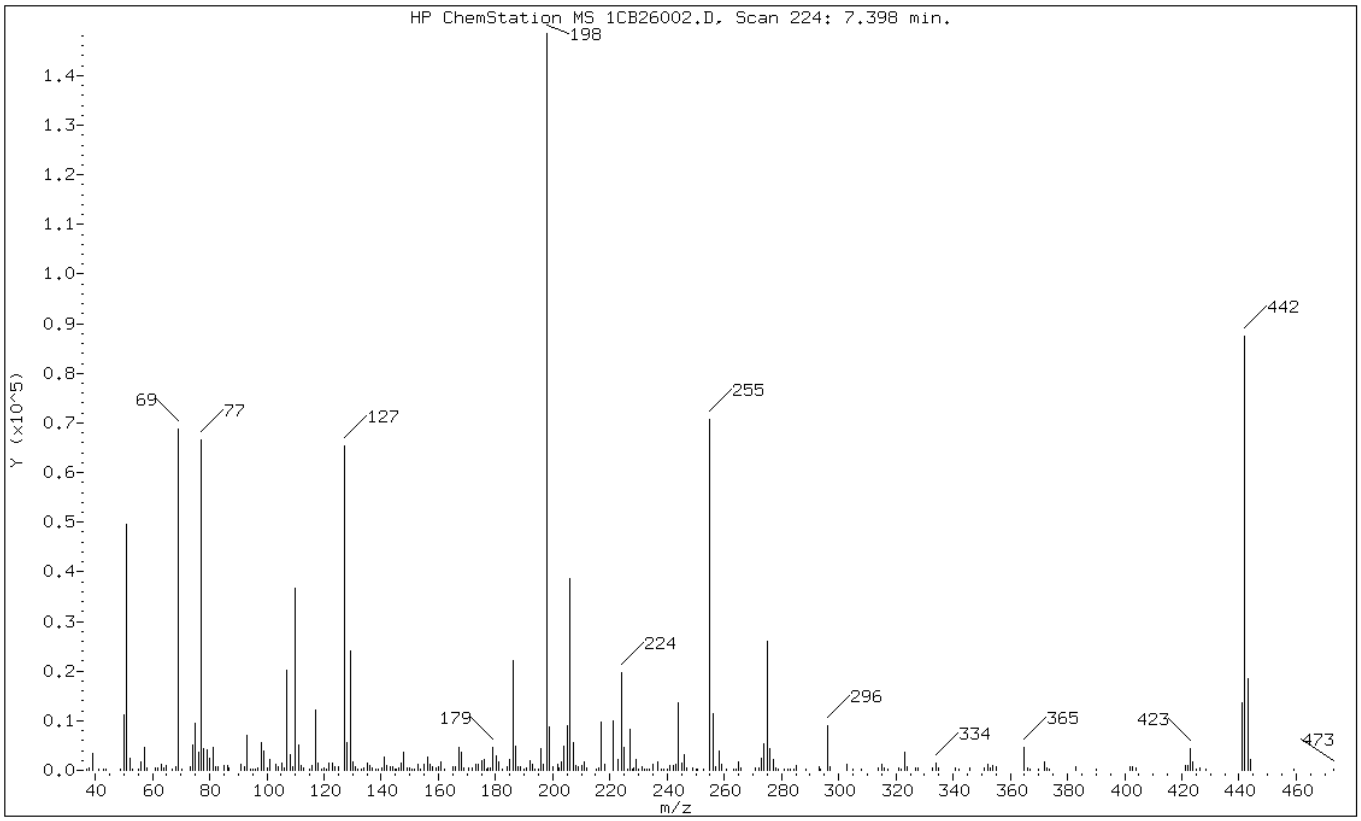
Data File: 1CB26002.D

Date: 26-FEB-2013 13:36

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	33.44
68	Less than 2.00% of mass 69	0.53 (1.13)
69	Mass 69 relative abundance	46.29
70	Less than 2.00% of mass 69	0.13 (0.28)
127	10.00 - 80.00% of mass 198	44.07
197	Less than 2.00% of mass 198	0.90
442	Greater than 50.00% of mass 198	58.94
199	5.00 - 9.00% of mass 198	5.83
275	10.00 - 60.00% of mass 198	17.57
365	Greater than 1.00% of mass 198	3.03
441	Present, but less than mass 443	9.15
443	15.00 - 24.00% of mass 442	12.39 (21.02)

Data File: 1CB26002.D

Date: 26-FEB-2013 13:36

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.b\1CB26002.D
Spectrum: HP ChemStation MS 1CB26002.D, Scan 224: 7.398 min.
Location of Maximum: 198.00
Number of points: 267

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	207	121.90	1421	191.90	1904	272.90	2355
38.00	558	123.00	1452	192.90	1260	274.00	5229
39.10	3343	124.00	835	193.70	280	275.00	26088
41.10	355	125.00	704	194.90	219	276.00	4276
43.10	162	127.10	65432	196.00	4304	277.00	2229
43.90	343	128.10	5604	196.80	1331	278.00	463
48.70	169	129.10	23944	198.00	148480	279.00	153
50.10	11163	130.00	1628	199.00	8651	281.00	208
51.10	49656	131.00	641	200.10	736	282.10	243
52.10	2423	131.90	291	201.60	1191	283.10	294
53.20	164	133.20	249	202.10	475	284.30	152
55.20	331	134.10	445	203.00	1595	285.10	1065
56.10	1791	135.00	1444	204.00	4843	288.70	180
57.10	4581	135.90	1011	205.00	8881	293.10	686
58.00	468	136.90	599	206.10	38744	293.80	282
61.00	452	138.30	306	207.10	5477	296.00	8981
61.90	504	138.80	229	208.20	996	297.00	782
63.10	1179	140.10	408	209.00	617	303.00	1165
64.00	369	141.00	2689	210.10	878	305.10	192
65.00	860	142.10	973	211.10	1692	308.00	179
67.10	226	143.00	614	211.70	597	313.70	387
68.10	780	144.10	792	215.10	312	314.90	1184
69.10	68736	144.80	249	216.00	597	316.00	564
70.30	193	145.40	361	217.00	9683	317.10	182
73.10	657	146.00	515	218.00	1101	321.10	443
74.10	5110	147.00	1561	221.10	9895	321.80	228
75.00	9416	148.00	3632	223.00	2276	323.10	3709
76.10	3525	149.10	375	224.10	19704	323.90	768
77.10	66600	149.80	378	225.10	4542	327.00	445
78.00	4343	150.90	354	226.10	340	327.90	433
79.00	4061	151.80	262	227.00	8252	333.00	587
80.10	2533	153.00	1249	227.70	156	333.90	1509
81.10	4650	153.90	244	228.20	502	334.80	455
82.10	719	155.10	1163	229.00	2080	340.90	408
82.90	743	156.10	2683	229.80	282	342.00	161
85.00	911	157.00	1194	231.10	685	345.80	432
86.10	862	158.10	792	231.90	284	350.90	528
86.90	557	159.10	585	233.00	210	352.00	1250
91.00	1287	160.10	650	233.70	247	352.90	376
92.00	835	161.00	1600	235.10	1207	354.00	1017

93.00	6967	162.10	284	236.90	1608	355.00	635
94.10	188	165.00	662	238.00	301	365.00	4500
95.20	232	166.10	675	238.90	190	365.90	401
95.80	170	167.10	4609	240.10	182	367.00	237
97.00	572	168.10	3666	240.90	1018	369.90	209
98.00	5507	169.00	385	242.10	1010	372.10	1797
99.10	3772	170.70	443	243.00	1276	373.00	504
100.10	479	171.90	556	244.00	13598	373.80	310
101.00	2103	173.10	1152	245.10	1435	383.10	689
103.00	1100	174.00	1227	245.90	3190	390.00	287
104.00	812	175.10	2056	247.00	541	401.90	663
105.10	1476	176.00	2115	249.00	565	402.70	662
105.90	369	176.90	348	250.00	274	404.00	369
107.00	20224	177.40	366	250.70	199	421.10	949
108.10	3149	178.10	419	252.80	333	422.10	958
109.20	836	179.00	4725	255.00	70824	423.00	4421
110.00	36736	180.10	2829	256.00	11537	424.00	1605
111.10	5093	180.90	1613	257.10	749	425.00	152
112.10	1080	182.20	233	258.00	3819	426.30	391
112.80	454	184.00	734	258.90	1317	428.30	281
115.10	279	185.00	2139	260.70	219	441.00	13587
116.00	1016	186.00	22040	263.20	219	442.00	87512
117.00	12152	187.10	4833	263.90	165	443.00	18392
118.00	1447	187.90	712	265.00	1737	444.10	2215
119.20	218	188.80	806	266.00	432	459.00	188
120.10	519	190.00	363	271.00	473	473.10	184
120.70	243	191.00	423	272.00	512		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 11:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\d-dftpp198.m
Meth Date : 10-Feb-2013 14:41 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

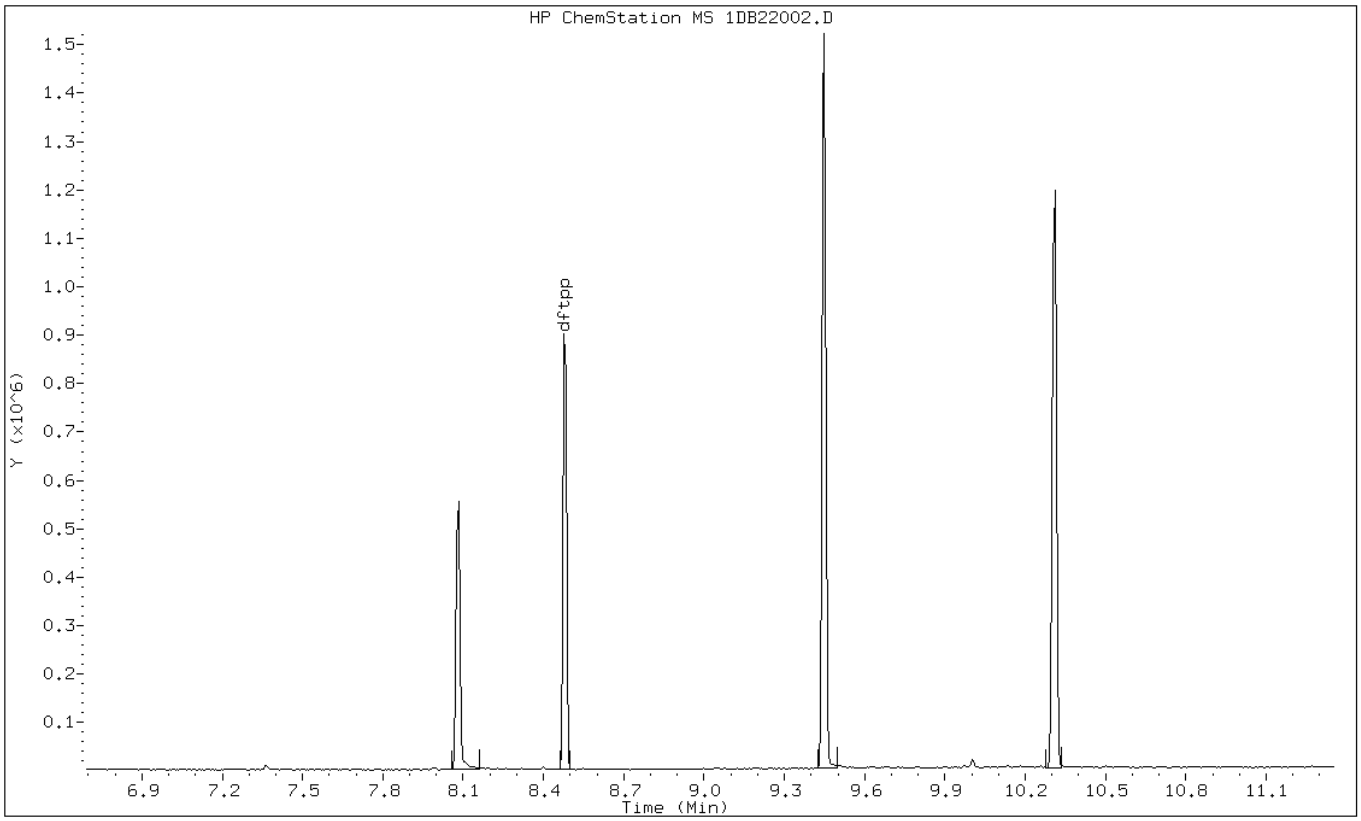
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.477	8.532	-0.055	198	100672			50.00- 0.00	100.00
8.477	8.532	-0.055	51	47200			10.00- 80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	69	46864			0.00- 0.00	46.55
8.477	8.532	-0.055	70	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	127	51248			10.00- 80.00	50.91
8.477	8.532	-0.055	197	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	442	64976			50.00- 0.00	64.54
8.477	8.532	-0.055	199	7983			5.00- 9.00	7.93
8.477	8.532	-0.055	275	25312			10.00- 60.00	25.14
8.477	8.532	-0.055	365	2913			1.00- 0.00	2.89
8.477	8.532	-0.055	441	10444			0.01- 99.99	78.40
8.477	8.532	-0.055	443	13322			15.00- 24.00	20.50

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1490607 | Operator: SCC



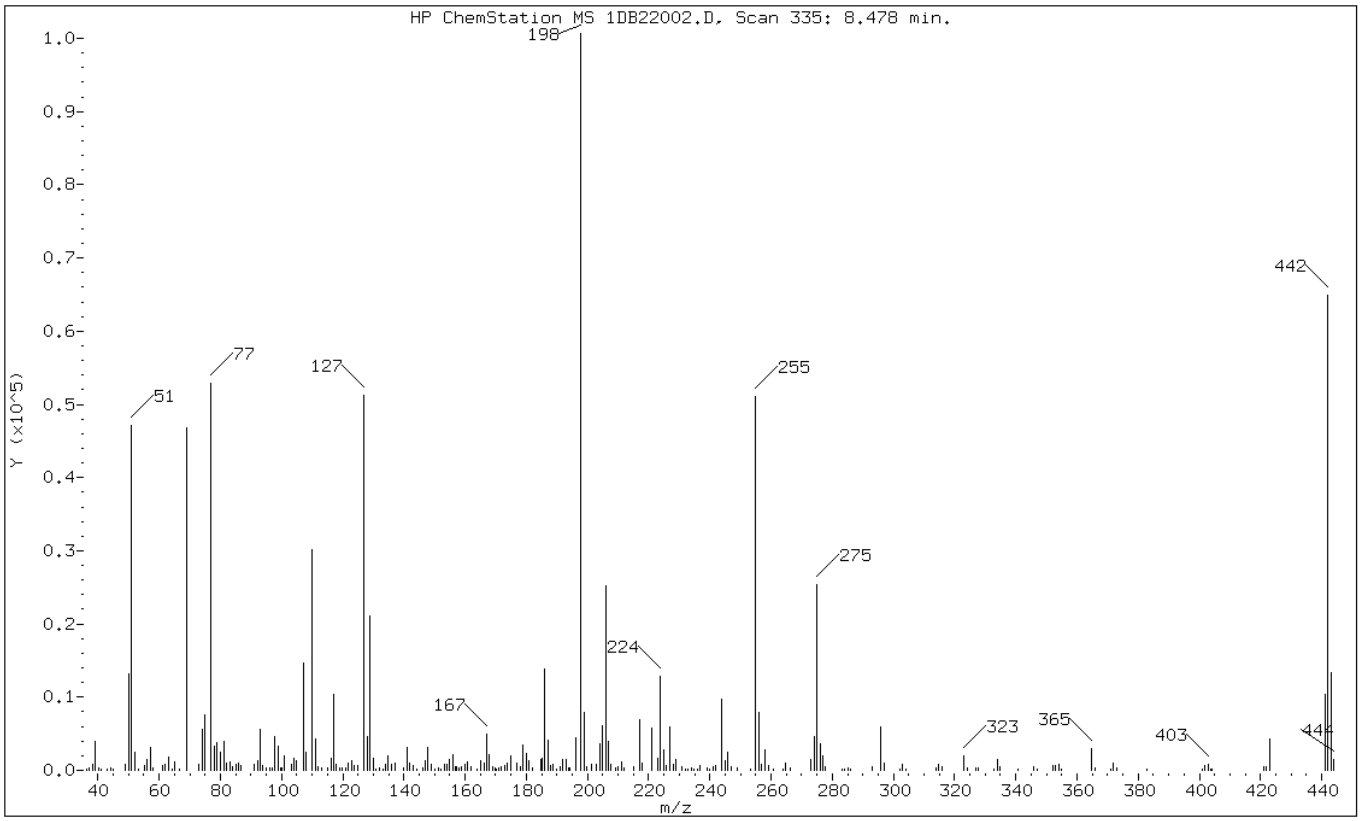
Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.88
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.55
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	64.54
199	5.00 - 9.00% of mass 198	7.93
275	10.00 - 60.00% of mass 198	25.14
365	Greater than 1.00% of mass 198	2.89
441	Present, but less than mass 443	10.37
443	15.00 - 24.00% of mass 442	13.23 (20.50)

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22002.D
Spectrum: HP ChemStation MS 1DB22002.D, Scan 335: 8.478 min.
Location of Maximum: 197.90
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	197	115.20	371	178.90	3443	257.00	823
37.00	283	116.10	1643	179.90	2267	257.90	2744
38.10	840	116.90	10345	180.90	1276	259.10	649
39.00	4029	117.90	808	182.10	256	260.60	181
40.10	307	118.90	290	184.90	1563	263.80	188
41.10	246	119.90	325	185.10	1576	264.90	958
43.00	222	120.80	293	186.00	13856	266.30	296
44.00	324	121.90	933	187.00	4060	273.10	1415
45.00	187	123.10	1272	188.00	700	274.00	4623
48.90	792	123.90	596	188.90	880	274.90	25312
50.00	13120	124.90	657	190.00	174	276.00	3568
51.00	47200	127.00	51248	191.10	471	276.90	1899
52.00	2399	128.10	4539	191.80	1499	277.90	482
53.20	206	129.00	21144	193.10	1492	283.10	239
55.10	588	129.90	1625	193.80	298	284.00	158
56.00	1454	130.90	232	194.10	273	285.10	390
57.00	3139	132.00	372	196.00	4461	285.90	196
58.00	280	133.10	193	197.90	100672	292.90	454
61.00	695	134.00	786	198.90	7983	295.90	5925
62.00	830	134.90	1968	199.80	431	296.90	1054
63.00	1811	136.00	819	201.40	803	302.00	199
64.10	190	137.00	946	202.90	742	303.00	877
65.00	1083	139.80	261	204.00	3564	304.10	237
66.80	165	140.90	3120	204.90	6035	314.00	370
69.00	46864	141.90	907	206.00	25272	314.90	811
73.00	834	143.00	599	207.00	3977	316.10	563
74.00	5603	144.10	205	207.80	855	323.00	2019
75.00	7619	146.20	403	209.00	292	324.00	399
77.00	52952	147.10	1400	209.90	465	326.80	356
78.10	3264	147.90	3115	211.10	1207	327.90	285
79.00	3723	149.00	769	211.80	371	333.00	245
80.00	2540	150.00	204	215.00	516	334.00	1434
81.00	3932	151.20	331	216.90	6871	334.90	449
82.00	1066	151.90	245	217.80	933	340.80	236
83.00	1122	152.20	196	221.00	5742	345.80	434
84.00	448	153.10	780	222.90	1718	346.90	155
85.00	839	154.10	760	223.90	12894	352.00	582
85.90	920	154.90	1455	225.00	2847	352.90	693
86.10	903	156.00	2222	225.80	583	354.10	794
86.90	664	156.80	423	226.90	5900	355.00	242

90.90	879	157.30	413
92.20	1301	158.00	406
92.90	5556	158.90	453
93.90	654	159.90	786
95.00	306	160.80	1173
96.00	333	161.90	523
96.80	249	163.80	175
97.90	4532	164.90	1380
99.00	3290	166.10	1007
99.90	302	167.00	4901
100.10	306	167.90	2117
101.00	1934	169.00	519
103.10	838	169.90	270
103.90	1680	170.30	232
104.90	1266	170.90	273
107.00	14642	171.80	412
107.90	2420	172.90	636
110.00	30136	173.90	999
111.00	4275	175.00	1902
112.00	423	176.70	1047
112.90	308	177.90	412

227.90	895	364.90	2913
229.00	1499	365.90	407
230.90	530	370.90	239
231.90	178	371.90	1022
233.00	190	373.00	407
234.00	288	382.90	223
234.80	220	401.00	178
235.80	168	401.90	599
236.80	623	403.00	796
239.10	325	403.80	179
240.00	221	404.00	178
241.00	419	421.00	483
242.00	691	422.00	527
244.00	9770	422.90	4204
245.00	1289	441.00	10444
245.90	2407	442.00	64976
246.90	412	443.00	13322
249.10	305	443.90	1486
253.20	215		
254.90	51056		
255.90	7928		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 26-FEB-2013 13:44
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.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

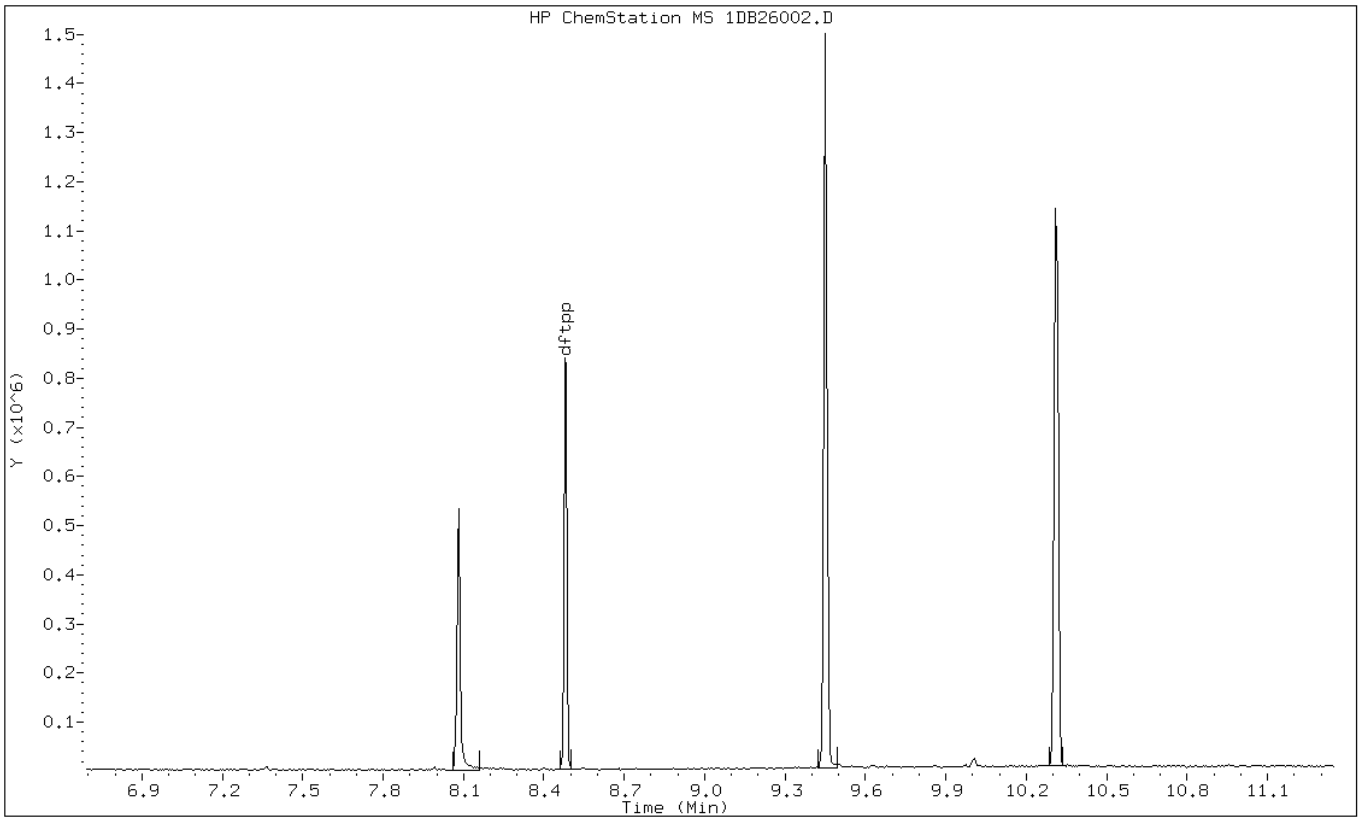
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.478	8.532	-0.054	198	96344			50.00- 0.00	100.00
8.478	8.532	-0.054	51	43872			10.00- 80.00	45.54
8.478	8.532	-0.054	68	0	0.0	0.0	0.00- 2.00	0.00
8.478	8.532	-0.054	69	45864			0.00- 0.00	47.60
8.478	8.532	-0.054	70	0	0.0	0.0	0.00- 2.00	0.00
8.478	8.532	-0.054	127	48568			10.00- 80.00	50.41
8.478	8.532	-0.054	197	0	0.0	0.0	0.00- 2.00	0.00
8.478	8.532	-0.054	442	58648			50.00- 0.00	60.87
8.478	8.532	-0.054	199	6273			5.00- 9.00	6.51
8.478	8.532	-0.054	275	24648			10.00- 60.00	25.58
8.478	8.532	-0.054	365	2523			1.00- 0.00	2.62
8.478	8.532	-0.054	441	9218			0.01- 99.99	69.71
8.478	8.532	-0.054	443	13223			15.00- 24.00	22.55

Data File: 1DB26002.D

Date: 26-FEB-2013 13:44

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1490607 | Operator: SCC



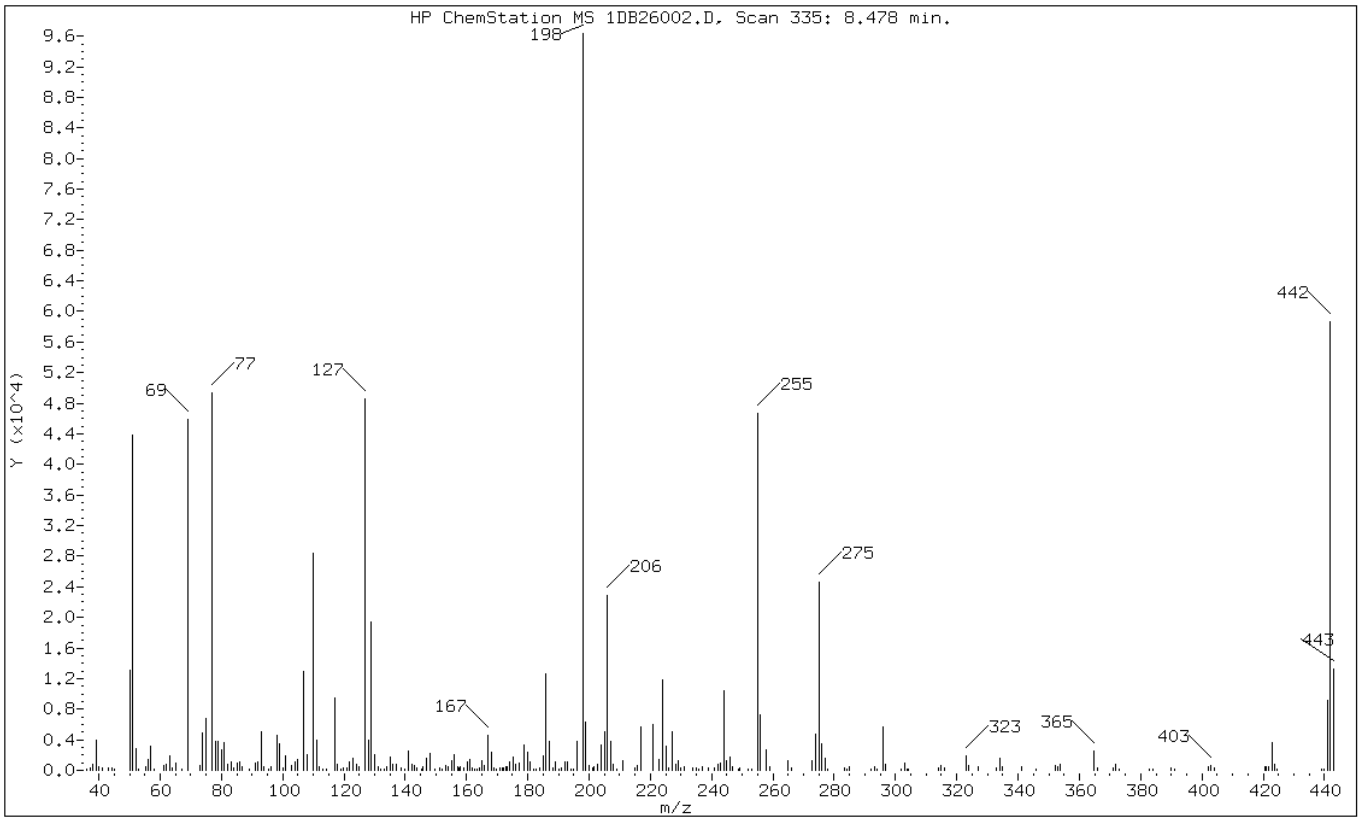
Data File: 1DB26002.D

Date: 26-FEB-2013 13:44

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	45.54
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	47.60
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.41
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	60.87
199	5.00 - 9.00% of mass 198	6.51
275	10.00 - 60.00% of mass 198	25.58
365	Greater than 1.00% of mass 198	2.62
441	Present, but less than mass 443	9.57
443	15.00 - 24.00% of mass 442	13.72 (22.55)

Data File: 1DB26002.D

Date: 26-FEB-2013 13:44

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26002.D
Spectrum: HP ChemStation MS 1DB26002.D, Scan 335: 8.478 min.
Location of Maximum: 197.90
Number of points: 243

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	182	118.90	186	178.90	3374	255.90	7246
37.10	339	119.90	283	180.00	2369	257.90	2647
38.10	853	121.10	246	180.90	1037	259.00	461
39.00	3933	121.90	1146	182.00	205	265.00	1183
39.90	493	122.90	1571	182.70	152	266.00	302
41.10	357	123.90	752	183.80	296	272.90	1307
43.10	241	124.90	502	185.00	1917	273.90	4781
44.10	253	127.00	48568	186.00	12602	275.00	24648
45.10	195	127.90	4009	186.90	3753	275.90	3477
50.00	13086	128.90	19376	188.00	357	276.90	1536
51.00	43872	130.00	2080	188.90	1050	277.90	217
52.00	2788	131.00	436	190.00	162	283.20	339
52.90	203	132.00	207	191.10	360	284.10	155
55.20	491	133.00	208	192.00	1047	285.00	446
56.10	1383	133.90	488	192.90	1144	291.90	157
57.00	3222	134.90	1698	194.00	215	293.00	524
57.90	197	136.00	725	194.90	213	293.80	188
61.00	591	137.10	748	196.00	3762	295.90	5627
62.00	832	138.80	289	197.90	96344	296.90	844
63.00	1835	140.00	180	198.90	6273	301.90	209
63.90	282	140.90	2462	199.90	601	302.90	985
65.10	959	142.00	792	201.00	292	303.90	192
67.00	200	142.90	641	201.70	519	304.30	179
69.00	45864	143.90	279	202.90	714	314.00	377
73.00	676	145.20	209	204.00	3306	314.90	687
73.90	4958	145.90	535	204.90	5110	315.90	393
75.00	6776	146.90	1622	206.00	22896	323.00	1918
77.00	49320	147.90	2149	206.90	3804	323.90	648
78.00	3782	149.80	218	208.00	800	326.90	458
79.00	3863	151.10	316	208.90	232	332.90	281
80.00	2715	151.40	294	211.00	1313	334.00	1613
81.00	3651	152.00	221	214.90	320	334.90	551
81.90	860	153.00	635	215.90	693	341.00	480
83.10	1041	153.80	465	216.90	5664	345.70	182
84.10	385	155.00	1276	220.90	5927	352.00	601
85.00	935	155.90	1991	222.90	1383	353.00	459
85.90	1136	157.00	489	224.00	11873	353.80	738
86.90	523	157.50	324	225.00	3214	364.90	2523
88.90	155	157.90	544	225.80	301	366.00	377
90.90	907	159.10	273	227.00	5048	370.90	286

92.00	1087	160.10	1048	228.20	743	371.80	732
93.00	5056	160.90	1418	228.90	1236	373.00	194
93.80	397	161.90	270	230.00	281	382.90	199
95.30	219	162.80	157	231.00	444	384.10	213
96.00	412	163.30	157	233.80	350	390.10	270
98.00	4623	164.00	362	234.90	364	390.90	209
98.90	3460	164.90	1187	235.90	192	402.00	399
100.00	338	165.90	697	236.90	415	402.80	583
100.90	1815	166.90	4649	238.90	322	404.00	256
103.00	604	168.00	2337	240.70	346	420.70	460
103.90	1078	168.90	388	242.00	819	421.00	479
105.00	1492	169.80	176	242.90	874	421.90	501
106.90	12996	171.00	245	244.00	10451	423.00	3596
108.00	2030	171.80	320	245.00	1234	423.90	724
110.00	28360	172.10	257	245.90	1769	424.70	182
111.00	3975	172.90	488	246.80	414	439.00	178
111.80	462	173.20	531	248.70	189	439.70	153
113.20	157	174.00	1132	249.10	273	441.00	9218
114.10	167	175.10	1719	251.90	213	442.00	58648
117.00	9420	176.10	802	253.00	222	443.00	13223
117.90	817	177.00	910	255.00	46712		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87545-5
SDG No.: 68087545-5
Client Sample ID:
Lab Sample ID: MB 660-134788/1-A
Matrix: Solid
Lab File ID: 1DB26007.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/25/2013 06:16
Sample wt/vol: 15.00(g)
Date Analyzed: 02/26/2013 15:37
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.: 134863
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	3.99	J	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26007.D
Lab Smp Id: MB 660-134788/1-A
Inj Date : 26-FEB-2013 15:37
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-134788/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\dFASTPAHi.m
Meth Date : 26-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

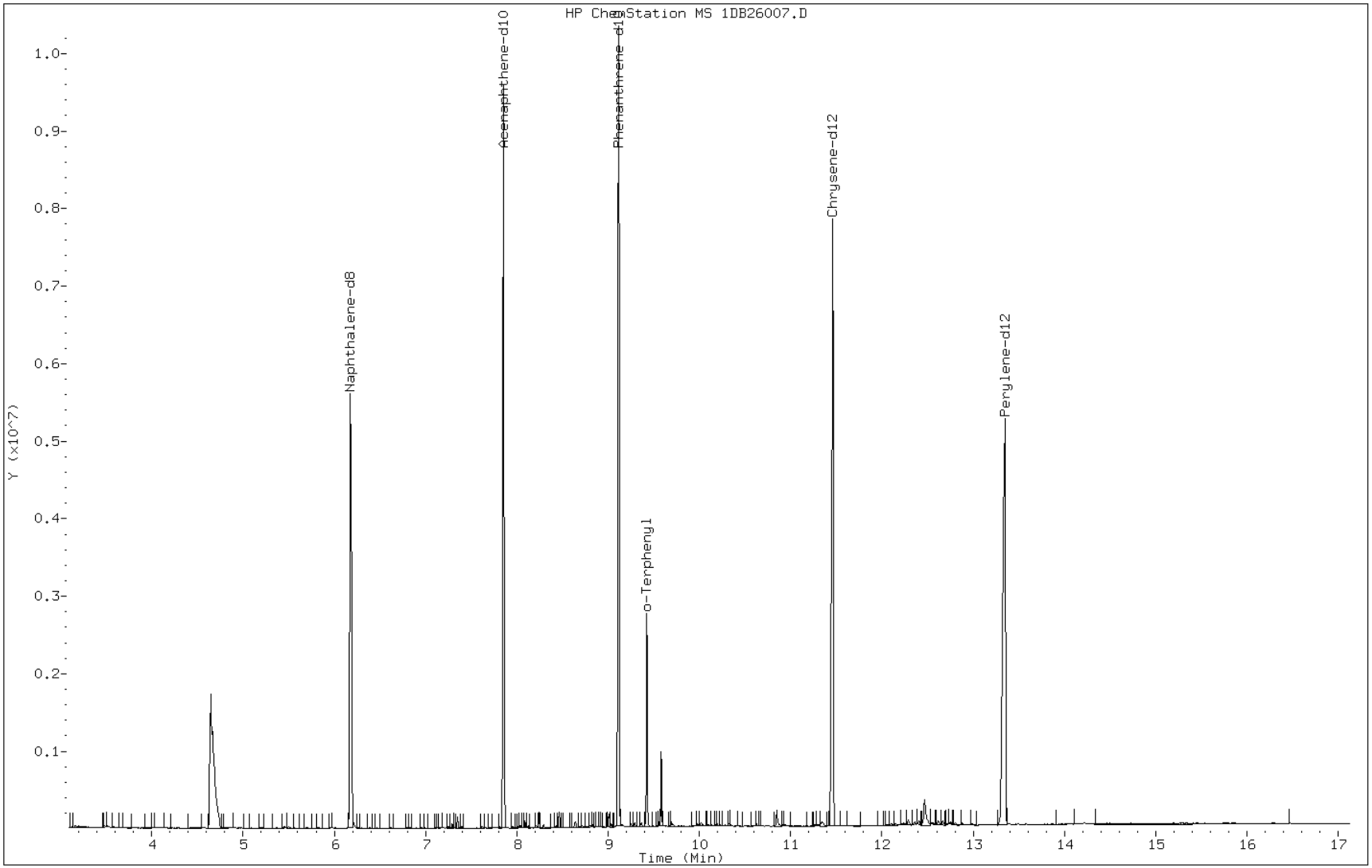
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.178	6.184	(1.000)	3238776	40.0000	
* 6 Acenaphthene-d10	164	7.852	7.859	(1.000)	2047706	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.116	(1.000)	3335239	40.0000	
$ 13 o-Terphenyl	230	9.421	9.427	(1.034)	446432	8.65578	580
* 17 Chrysene-d12	240	11.460	11.466	(1.000)	3421137	40.0000	
* 22 Perylene-d12	264	13.346	13.352	(1.000)	3657304	40.0000	
10 Phenanthrene	178	9.133	9.139	(1.002)	5667	0.05986	4.0

Data File: 1DB26007.D

Date: 26-FEB-2013 15:37

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-134788/1-A Operator: SCC



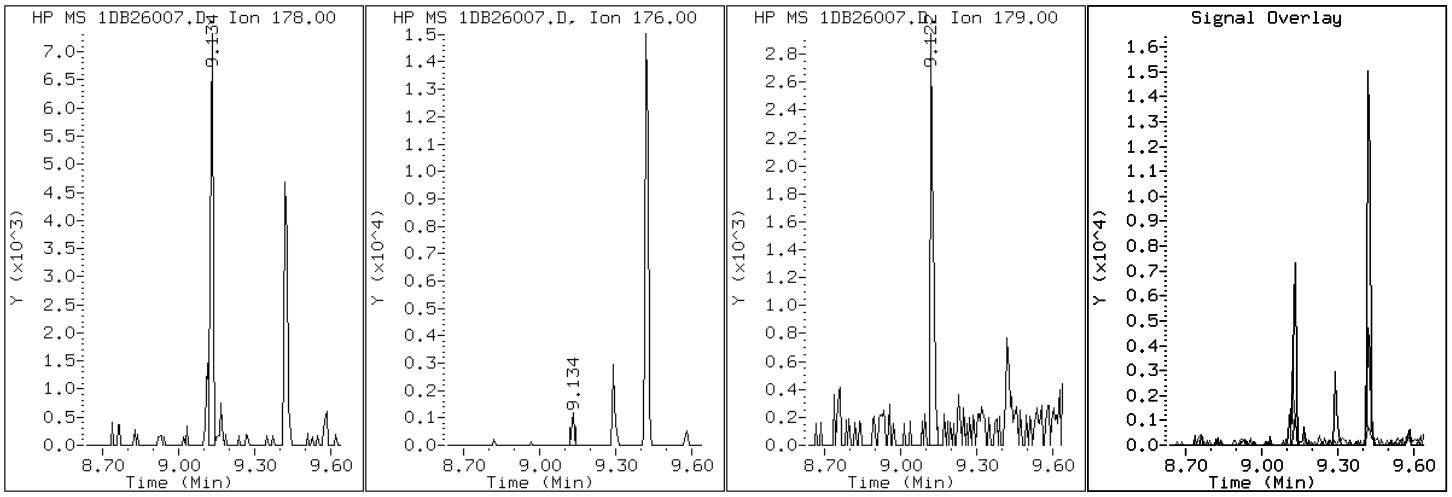
Data File: 1DB26007.D

Date: 26-FEB-2013 15:37

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-134788/1-A Operator: SCC

10 Phenanthrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-5

SDG No.: 68087545-5

Client Sample ID: | Lab Sample ID: MB 660-134800/1-A

Matrix: Solid | Lab File ID: 1CB26005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/25/2013 10:02

Sample wt/vol: 15.13(g) | Date Analyzed: 02/26/2013 14:29

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.: 134862 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	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	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	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\1C022613.b\1CB26005.D
Lab Smp Id: mb 660-134800/1-a
Inj Date : 26-FEB-2013 14:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134800/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.b\a-bFASTPAHi-m.m
Meth Date : 26-Feb-2013 14:08 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.130	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

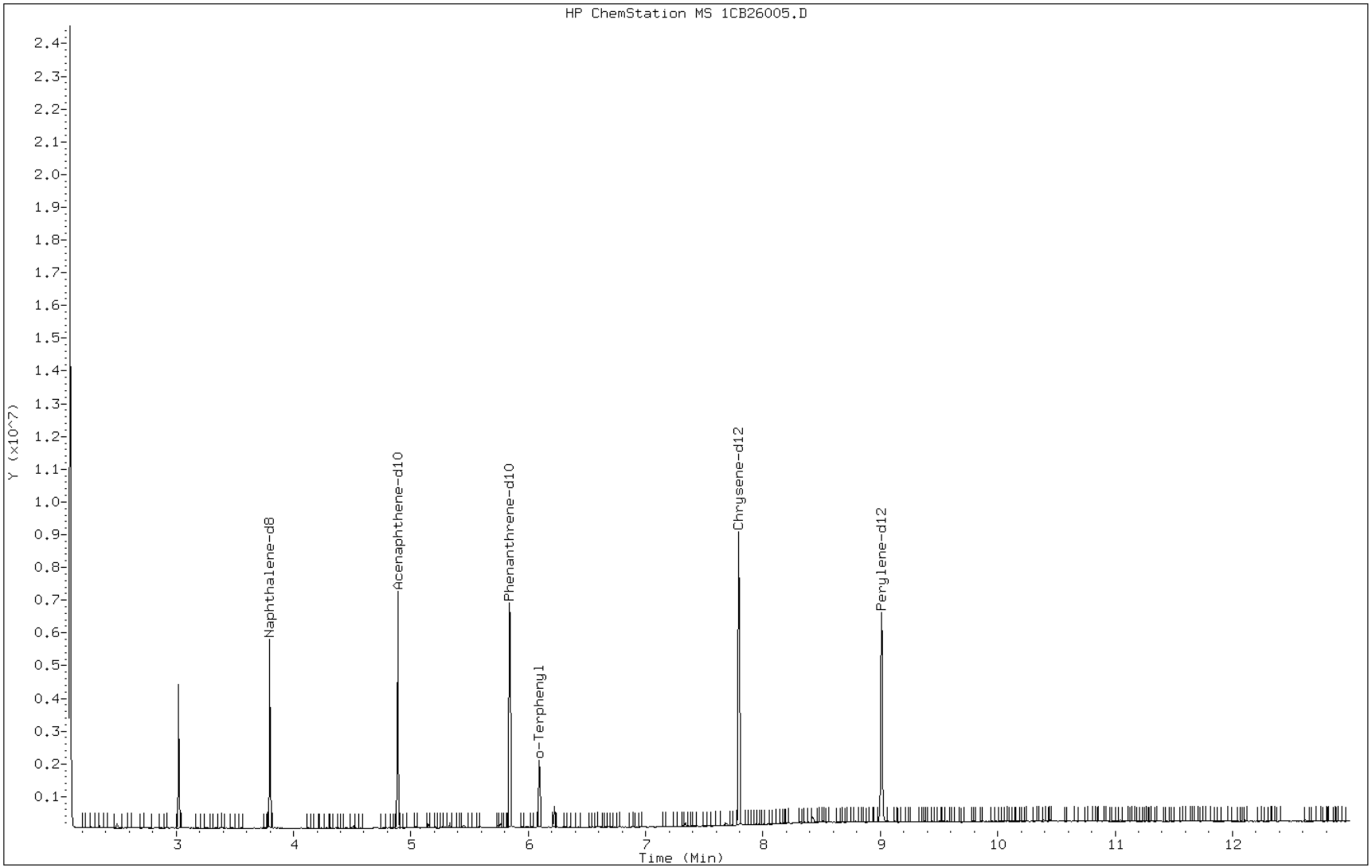
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.798	3.798	(1.000)	1233497	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.886	(1.000)	975510	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.845	(1.000)	1939984	40.0000	
$ 14 o-Terphenyl	230	6.092	6.098	(1.043)	287221	9.80596	648.1136
* 18 Chrysene-d12	240	7.792	7.798	(1.000)	2464489	40.0000	
* 23 Perylene-d12	264	9.009	9.015	(1.000)	2575733	40.0000	

Data File: 1CB26005.D

Date: 26-FEB-2013 14:29

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134800/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87545-5
SDG No.: 68087545-5
Client Sample ID:
Lab Sample ID: LCS 660-134788/2-A
Matrix: Solid
Lab File ID: 1DB26008.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/25/2013 06:16
Sample wt/vol: 15.05(g)
Date Analyzed: 02/26/2013 15:59
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.: 134863
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	535		100	20
208-96-8	Acenaphthylene	547		40	5.0
120-12-7	Anthracene	566		8.4	4.2
56-55-3	Benzo[a]anthracene	601		8.0	3.9
50-32-8	Benzo[a]pyrene	544		10	5.2
205-99-2	Benzo[b]fluoranthene	578		12	6.1
191-24-2	Benzo[g,h,i]perylene	568		20	4.4
207-08-9	Benzo[k]fluoranthene	572		8.0	3.6
218-01-9	Chrysene	553		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	603		20	4.1
206-44-0	Fluoranthene	591		20	4.0
86-73-7	Fluorene	552		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	555		20	7.1
90-12-0	1-Methylnaphthalene	585		40	4.4
91-57-6	2-Methylnaphthalene	554		40	7.1
91-20-3	Naphthalene	528		40	4.4
85-01-8	Phenanthrene	551		8.0	3.9
129-00-0	Pyrene	547		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26008.D
Lab Smp Id: LCS 660-134788/2-A
Inj Date : 26-FEB-2013 15:59
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-134788/2-A
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\dFASTPAHi.m
Meth Date : 26-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 8 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	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.180	6.184	(1.000)	3172043	40.0000	
* 6 Acenaphthene-d10	164	7.854	7.859	(1.000)	1989031	40.0000	
* 9 Phenanthrene-d10	188	9.118	9.116	(1.000)	3201498	40.0000	
$ 13 o-Terphenyl	230	9.423	9.427	(1.034)	470209	9.49763	630
* 17 Chrysene-d12	240	11.462	11.466	(1.000)	3345497	40.0000	
* 22 Perylene-d12	264	13.348	13.352	(1.000)	3529253	40.0000	
2 Naphthalene	128	6.197	6.208	(1.003)	674728	7.95161	530
3 2-Methylnaphthalene	142	6.902	6.907	(1.117)	451002	8.34371	550
4 1-Methylnaphthalene	142	6.991	7.001	(1.131)	445973	8.81075	580
5 Acenaphthylene	152	7.725	7.729	(0.984)	721500	8.22771	550
7 Acenaphthene	154	7.878	7.882	(1.003)	430202	8.04600	530
8 Fluorene	166	8.324	8.329	(1.060)	519205	8.31121	550
10 Phenanthrene	178	9.135	9.139	(1.002)	753920	8.29578	550
11 Anthracene	178	9.170	9.181	(1.006)	775182	8.52528	570

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.306	9.316	(1.021)	717720	8.82966	590(M)
14 Fluoranthene	202	10.116	10.121	(1.110)	843231	8.89109	590
15 Pyrene	202	10.304	10.309	(0.899)	854913	8.23820	550
16 Benzo(a)anthracene	228	11.438	11.448	(0.998)	828899	9.04987	600
18 Chrysene	228	11.485	11.495	(1.002)	786668	8.31929	550
19 Benzo(b)fluoranthene	252	12.778	12.788	(0.957)	790083	8.69731	580
20 Benzo(k)fluoranthene	252	12.813	12.829	(0.960)	818977	8.61040	570
21 Benzo(a)pyrene	252	13.236	13.252	(0.992)	735925	8.18642	540
23 Indeno(1,2,3-cd)pyrene	276	14.958	14.980	(1.121)	801779	8.35749	560(H)
24 Dibenzo(a,h)anthracene	278	14.987	15.015	(1.123)	803694	9.07118	600
25 Benzo(g,h,i)perylene	276	15.416	15.450	(1.155)	782397	8.55372	570(H)

QC Flag Legend

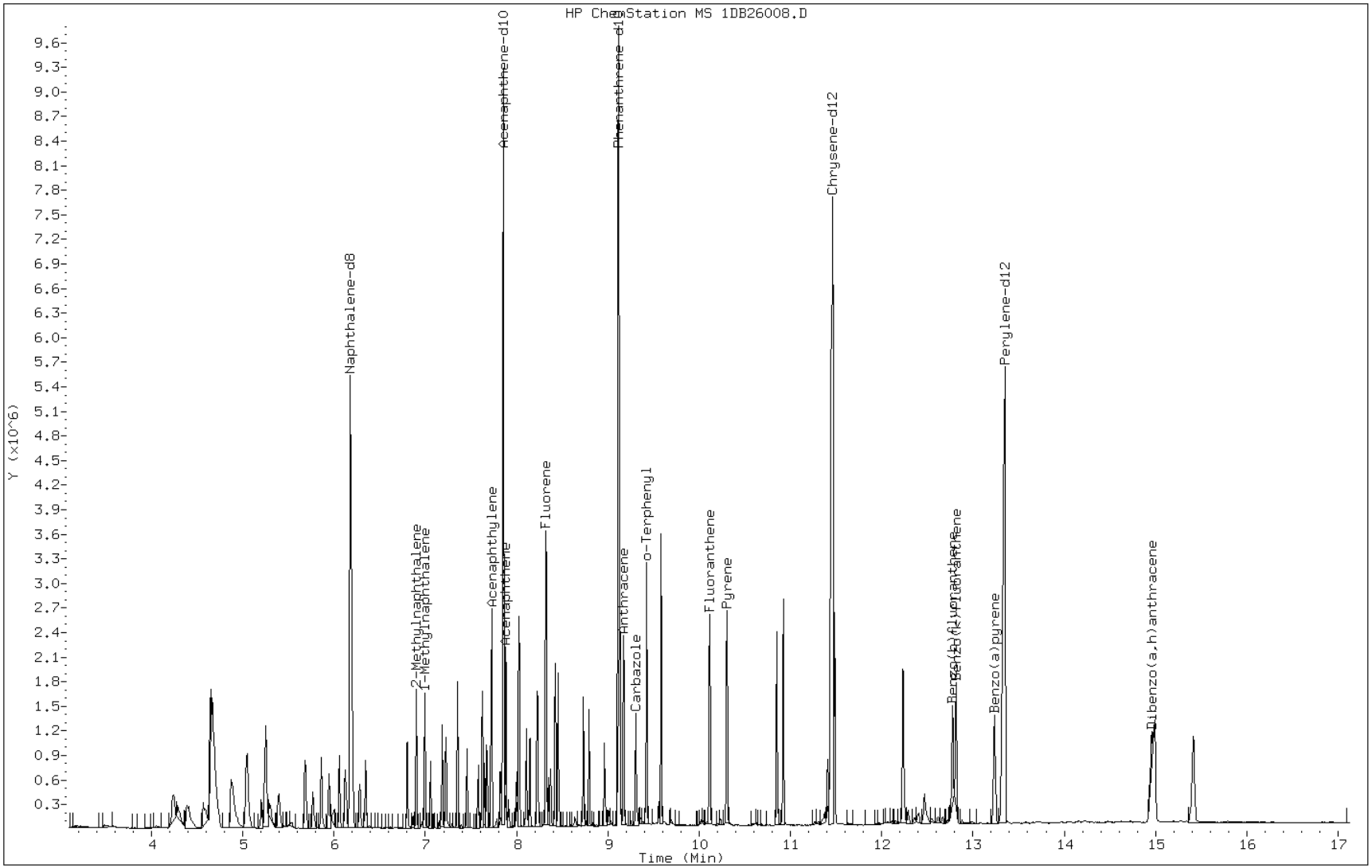
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB26008.D

Date: 26-FEB-2013 15:59

Client ID: Instrument: BSMSD.i

Sample Info: LCS 660-134788/2-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87545-5
SDG No.: 68087545-5
Client Sample ID:
Lab Sample ID: LCS 660-134800/2-A
Matrix: Solid
Lab File ID: 1CB26006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/25/2013 10:02
Sample wt/vol: 14.98(g)
Date Analyzed: 02/26/2013 14:48
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.: 134862
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	689		100	20
208-96-8	Acenaphthylene	641		40	5.0
120-12-7	Anthracene	638		8.4	4.2
56-55-3	Benzo[a]anthracene	648		8.0	3.9
50-32-8	Benzo[a]pyrene	605		10	5.2
205-99-2	Benzo[b]fluoranthene	701		12	6.1
191-24-2	Benzo[g,h,i]perylene	619		20	4.4
207-08-9	Benzo[k]fluoranthene	629		8.0	3.6
218-01-9	Chrysene	630		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	655		20	4.1
206-44-0	Fluoranthene	682		20	4.0
86-73-7	Fluorene	667		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	739		20	7.1
90-12-0	1-Methylnaphthalene	689		40	4.4
91-57-6	2-Methylnaphthalene	625		40	7.1
91-20-3	Naphthalene	630		40	4.4
85-01-8	Phenanthrene	629		8.0	3.9
129-00-0	Pyrene	663		20	3.7

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\1C022613.b\1CB26006.D
Lab Smp Id: lcs 660-134800/2-a
Inj Date : 26-FEB-2013 14:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134800/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.b\a-bFASTPAHi-m.m
Meth Date : 26-Feb-2013 14:08 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	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	3.798	3.798	(1.000)	1245708	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.886	(1.000)	991180	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1977796	40.0000	
$ 14 o-Terphenyl	230	6.092	6.098	(1.042)	327856	10.9793	732.9289
* 18 Chrysene-d12	240	7.792	7.798	(1.000)	2574203	40.0000	
* 23 Perylene-d12	264	9.009	9.015	(1.000)	2595929	40.0000	
2 Naphthalene	128	3.810	3.810	(1.003)	305829	9.43029	629.5255
3 2-Methylnaphthalene	142	4.239	4.239	(1.116)	202604	9.36570	625.2135
4 1-Methylnaphthalene	142	4.298	4.304	(1.132)	203479	10.3278	689.4386
5 Acenaphthylene	152	4.798	4.804	(0.982)	383433	9.59512	640.5285
7 Acenaphthene	154	4.910	4.910	(1.005)	256436	10.3243	689.2038
9 Fluorene	166	5.227	5.227	(1.070)	314050	9.99765	667.4000
11 Phenanthrene	178	5.857	5.857	(1.002)	538721	9.41999	628.8378
12 Anthracene	178	5.892	5.892	(1.008)	534272	9.55241	637.6774

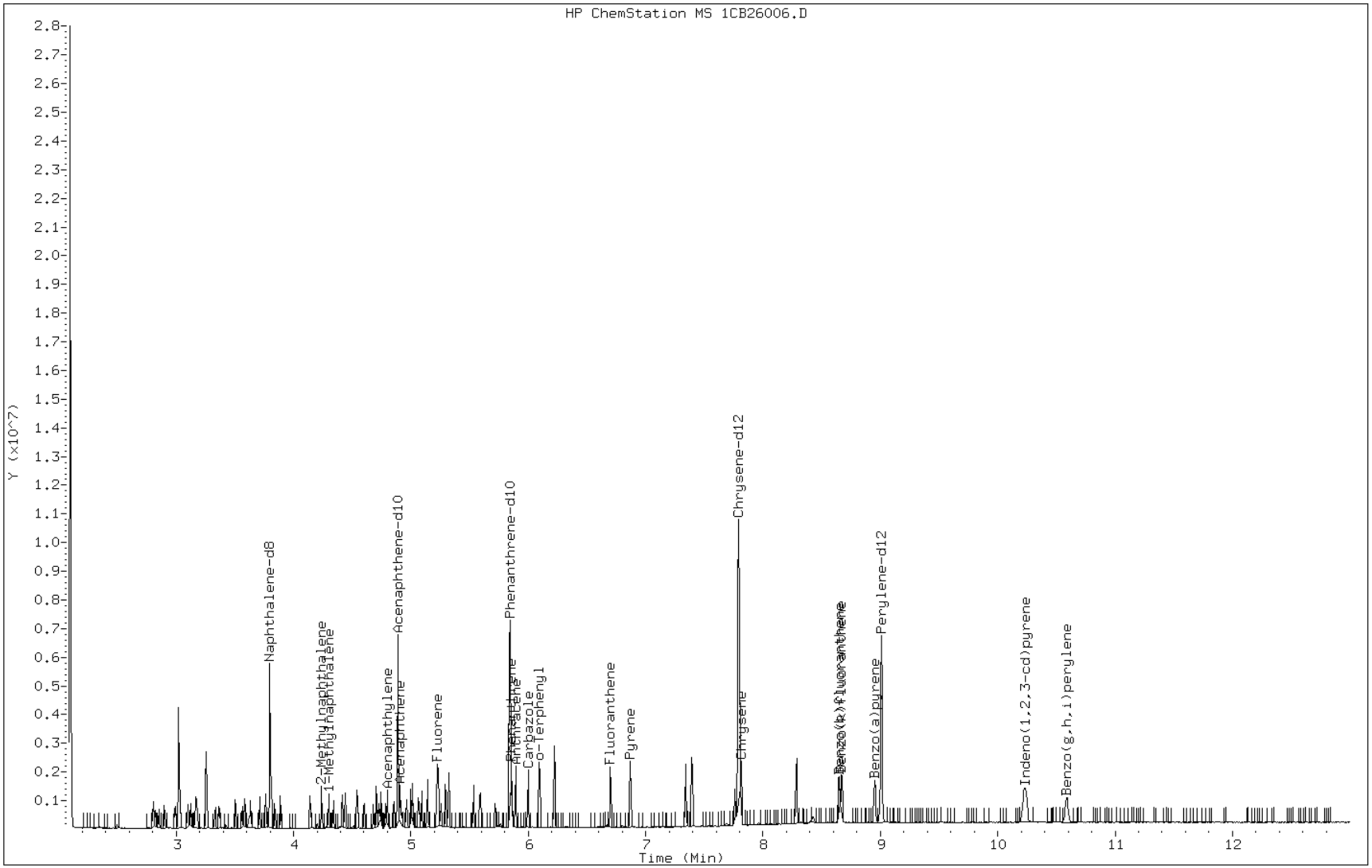
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.998	5.998	(1.026)	507353	10.2045	681.2103
15 Fluoranthene	202	6.698	6.704	(1.146)	639736	10.2147	681.8887
16 Pyrene	202	6.868	6.868	(0.881)	687123	9.93268	663.0627
17 Benzo(a)anthracene	228	7.786	7.786	(0.999)	721382	9.70951	648.1645
19 Chrysene	228	7.815	7.815	(1.003)	701984	9.44132	630.2619
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	712620	10.5042	701.2166
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.963)	655715	9.42192	628.9667
22 Benzo(a)pyrene	252	8.951	8.956	(0.993)	597436	9.06633	605.2291
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.227	(1.134)	685807	11.0633	738.5356
25 Dibenzo(a,h)anthracene	278	10.239	10.245	(1.136)	595066	9.81398	655.1389
26 Benzo(g,h,i)perylene	276	10.586	10.597	(1.175)	601318	9.27297	619.0235

Data File: 1CB26006.D

Date: 26-FEB-2013 14:48

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-134800/2-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87545-5
SDG No.: 68087545-5
Client Sample ID:
Lab Sample ID: 680-87545-A-61-B MS
Matrix: Solid
Lab File ID: 1DB26010.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/25/2013 06:16
Sample wt/vol: 15.05(g)
Date Analyzed: 02/26/2013 16:45
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 19.5
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134863
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	811		500	99
208-96-8	Acenaphthylene	837		200	25
120-12-7	Anthracene	868		42	21
56-55-3	Benzo[a]anthracene	1280		40	19
50-32-8	Benzo[a]pyrene	1140		52	26
205-99-2	Benzo[b]fluoranthene	1440		60	30
191-24-2	Benzo[g,h,i]perylene	1070		99	22
207-08-9	Benzo[k]fluoranthene	1050		40	18
218-01-9	Chrysene	1270		45	22
53-70-3	Dibenz(a,h)anthracene	894		99	20
206-44-0	Fluoranthene	1800		99	20
86-73-7	Fluorene	849		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	1020		99	35
90-12-0	1-Methylnaphthalene	964		200	22
91-57-6	2-Methylnaphthalene	944		200	35
91-20-3	Naphthalene	863		200	22
85-01-8	Phenanthrene	1340		40	19
129-00-0	Pyrene	1510		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	108		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26010.D
Lab Smp Id: 680-87545-A-61-B MS
Inj Date : 26-FEB-2013 16:45
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-61-B MS
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\dFASTPAHi.m
Meth Date : 26-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 10 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.180	6.184	(1.000)	3207164	40.0000	
* 6 Acenaphthene-d10	164	7.855	7.859	(1.000)	2022507	40.0000	
* 9 Phenanthrene-d10	188	9.118	9.116	(1.000)	3330885	40.0000	
$ 13 o-Terphenyl	230	9.424	9.427	(1.034)	139302	2.70443	720
* 17 Chrysene-d12	240	11.462	11.466	(1.000)	3435460	40.0000	
* 22 Perylene-d12	264	13.348	13.352	(1.000)	3601246	40.0000	
2 Naphthalene	128	6.204	6.208	(1.004)	224154	2.61271	690
3 2-Methylnaphthalene	142	6.903	6.907	(1.117)	156215	2.85839	760
4 1-Methylnaphthalene	142	6.991	7.001	(1.131)	149496	2.92114	780
5 Acenaphthylene	152	7.726	7.729	(0.984)	225973	2.53426	670
7 Acenaphthene	154	7.878	7.882	(1.003)	133538	2.45620	650
8 Fluorene	166	8.319	8.329	(1.059)	163298	2.57074	680
10 Phenanthrene	178	9.130	9.139	(1.001)	384478	4.06628	1100(R)
11 Anthracene	178	9.171	9.181	(1.006)	248753	2.62946	700

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.306	9.316	(1.021)	216352	2.55825	680
14 Fluoranthene	202	10.117	10.121	(1.110)	538230	5.45469	1400(R)
15 Pyrene	202	10.305	10.309	(0.899)	486862	4.56869	1200(R)
16 Benzo(a)anthracene	228	11.439	11.448	(0.998)	364327	3.87354	1000(R)
18 Chrysene	228	11.486	11.495	(1.002)	373816	3.84971	1000(R)
19 Benzo(b)fluoranthene	252	12.778	12.788	(0.957)	403574	4.35377	1200(R)
20 Benzo(k)fluoranthene	252	12.814	12.829	(0.960)	309066	3.18444	850
21 Benzo(a)pyrene	252	13.237	13.252	(0.992)	316201	3.44710	920(R)
23 Indeno(1,2,3-cd)pyrene	276	14.958	14.980	(1.121)	303235	3.09764	820(M)
24 Dibenzo(a,h)anthracene	278	14.988	15.015	(1.123)	244825	2.70806	720
25 Benzo(g,h,i)perylene	276	15.417	15.450	(1.155)	303047	3.24689	860

QC Flag Legend

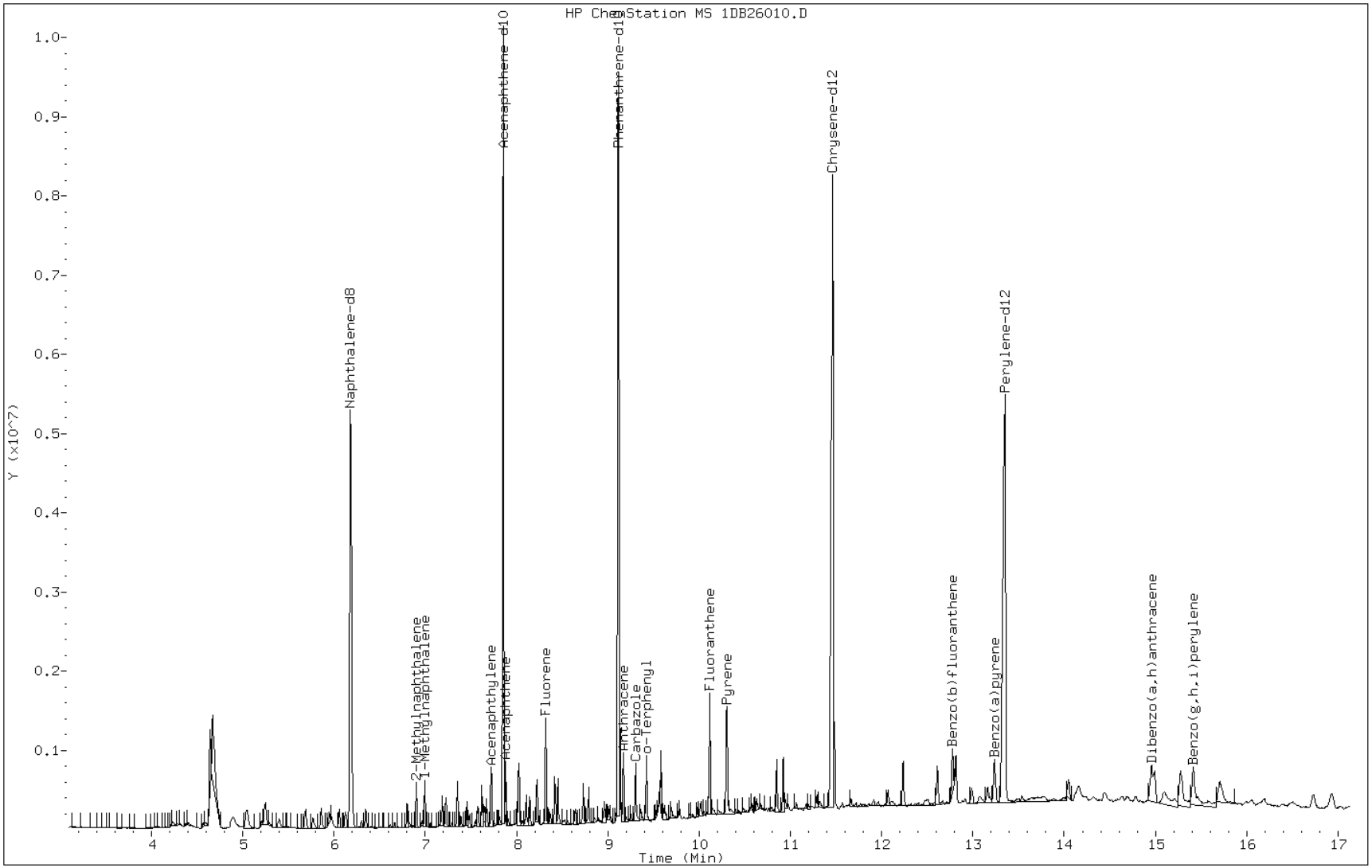
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DB26010.D

Date: 26-FEB-2013 16:45

Client ID: Instrument: BSMSD.i

Sample Info: 680-87545-A-61-B MS Operator: SCC



Manual Integration Report

Data File: 1DB26010.D
Inj. Date and Time: 26-FEB-2013 16:45
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/28/2013

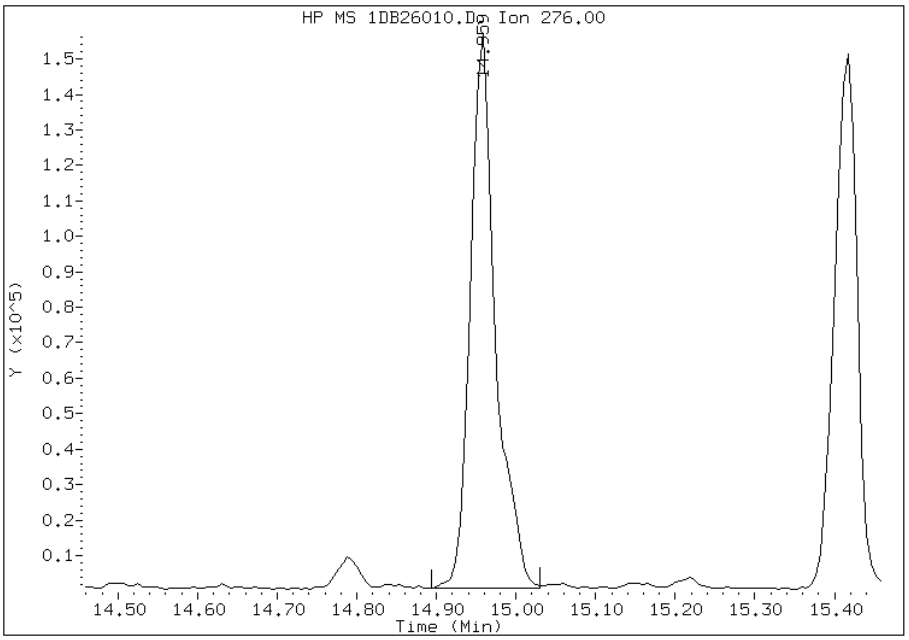
Processing Integration Results

RT: 14.96

Response: 341114

Amount: 3

Conc: 926



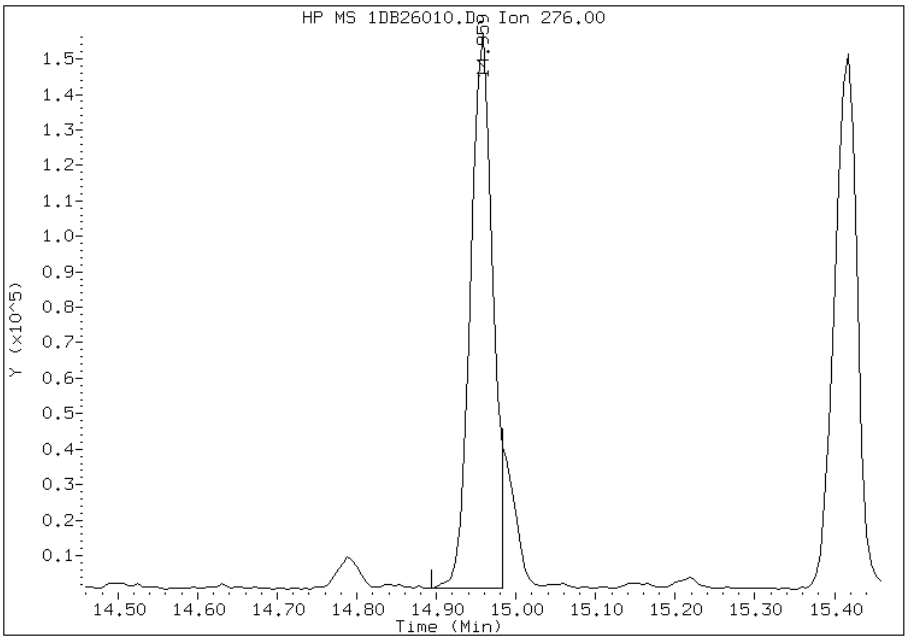
Manual Integration Results

RT: 14.96

Response: 303235

Amount: 3

Conc: 823



Manually Integrated By: cantins
Modification Date: 28-Feb-2013 10:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-5

SDG No.: 68087545-5

Client Sample ID: FM0161DDD-CS MS | Lab Sample ID: 680-87545-84 MS

Matrix: Solid | Lab File ID: 1CB26008.D

Analysis Method: 8270C LL | Date Collected: 02/15/2013 08:53

Extract. Method: 3546 | Date Extracted: 02/25/2013 10:02

Sample wt/vol: 15.06(g) | Date Analyzed: 02/26/2013 15:25

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

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

% Moisture: 3.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134862 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	623		100	21
208-96-8	Acenaphthylene	628		41	5.2
120-12-7	Anthracene	607		8.7	4.3
56-55-3	Benzo[a]anthracene	660		8.3	4.0
50-32-8	Benzo[a]pyrene	629		11	5.4
205-99-2	Benzo[b]fluoranthene	669		13	6.3
191-24-2	Benzo[g,h,i]perylene	583		21	4.5
207-08-9	Benzo[k]fluoranthene	723		8.3	3.7
218-01-9	Chrysene	608		9.3	4.6
53-70-3	Dibenz(a,h)anthracene	581		21	4.2
206-44-0	Fluoranthene	671		21	4.1
86-73-7	Fluorene	637		21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	561		21	7.3
90-12-0	1-Methylnaphthalene	686		41	4.5
91-57-6	2-Methylnaphthalene	668		41	7.3
91-20-3	Naphthalene	657		41	4.5
85-01-8	Phenanthrene	643		8.3	4.0
129-00-0	Pyrene	731		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.b\1CB26008.D
Lab Smp Id: 680-87545-a-84-b ms
Inj Date : 26-FEB-2013 15:25
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87545-a-84-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.b\a-bFASTPAHi-m.m
Meth Date : 26-Feb-2013 14:08 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 8 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	15.060	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	3.798	3.798	(1.000)	1590978	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.886	(1.000)	1262631	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2377509	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	340308	9.48030	629.5019
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2494484	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2243089	40.0000	
2 Naphthalene	128	3.810	3.810	(1.003)	395487	9.54840	634.0241
3 2-Methylnaphthalene	142	4.239	4.239	(1.116)	268335	9.71229	644.9062
4 1-Methylnaphthalene	142	4.304	4.304	(1.133)	250849	9.96902	661.9532
5 Acenaphthylene	152	4.798	4.804	(0.982)	465013	9.13486	606.5645
7 Acenaphthene	154	4.910	4.910	(1.005)	286438	9.05289	601.1214
9 Fluorene	166	5.227	5.227	(1.070)	370630	9.26224	615.0223
11 Phenanthrene	178	5.857	5.857	(1.002)	643111	9.35474	621.1648
12 Anthracene	178	5.892	5.892	(1.008)	593300	8.82438	585.9481

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.998	5.998	(1.026)	542730	9.08084	602.9773
15 Fluoranthene	202	6.704	6.704	(1.147)	734080	9.75051	647.4440
16 Pyrene	202	6.868	6.868	(0.881)	712055	10.6220	705.3141
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	690686	9.59344	637.0148
19 Chrysene	228	7.815	7.815	(1.002)	637179	8.84360	587.2246
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	570255	9.72795	645.9463
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	631722	10.5050	697.5441
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	521001	9.15009	607.5753
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.227	(1.135)	436939	8.15734	541.6559(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.245	(1.137)	442517	8.44610	560.8301
26 Benzo(g,h,i)perylene	276	10.598	10.597	(1.175)	475298	8.48256	563.2511

QC Flag Legend

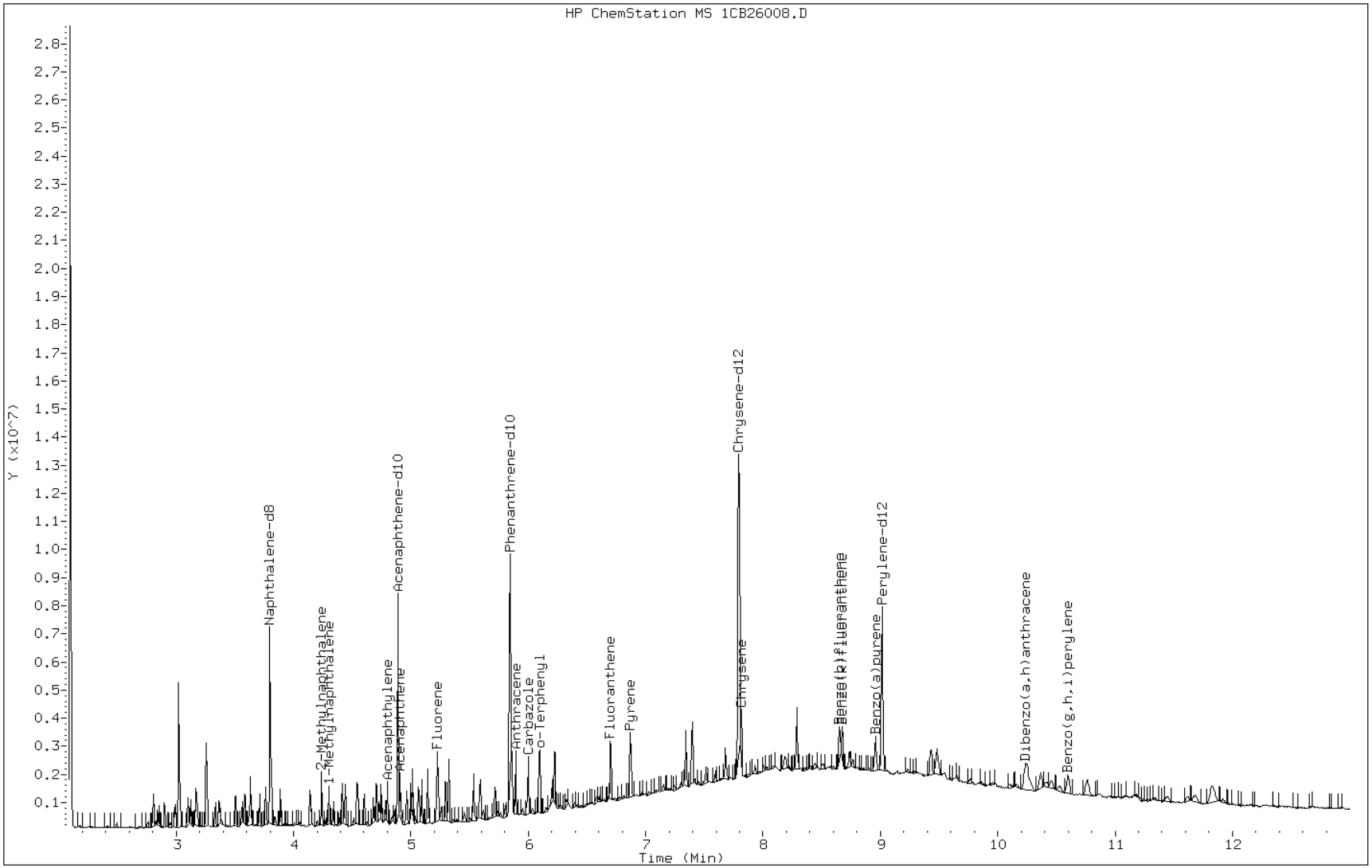
M - Compound response manually integrated.

Data File: 1CB26008.D

Date: 26-FEB-2013 15:25

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-b ms Operator: SCC



Manual Integration Report

Data File: 1CB26008.D
Inj. Date and Time: 26-FEB-2013 15:25
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

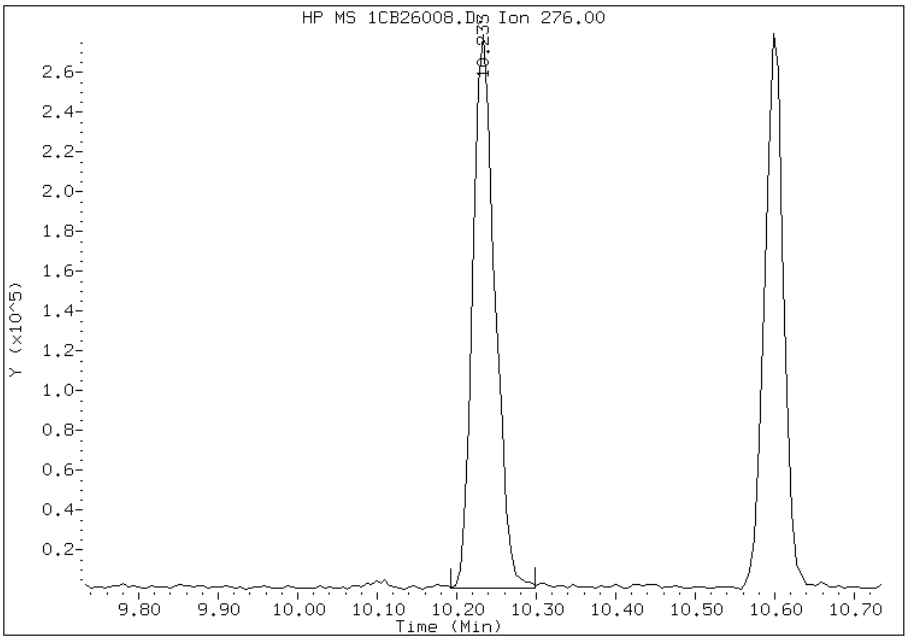
Processing Integration Results

RT: 10.23

Response: 536023

Amount: 10

Conc: 664



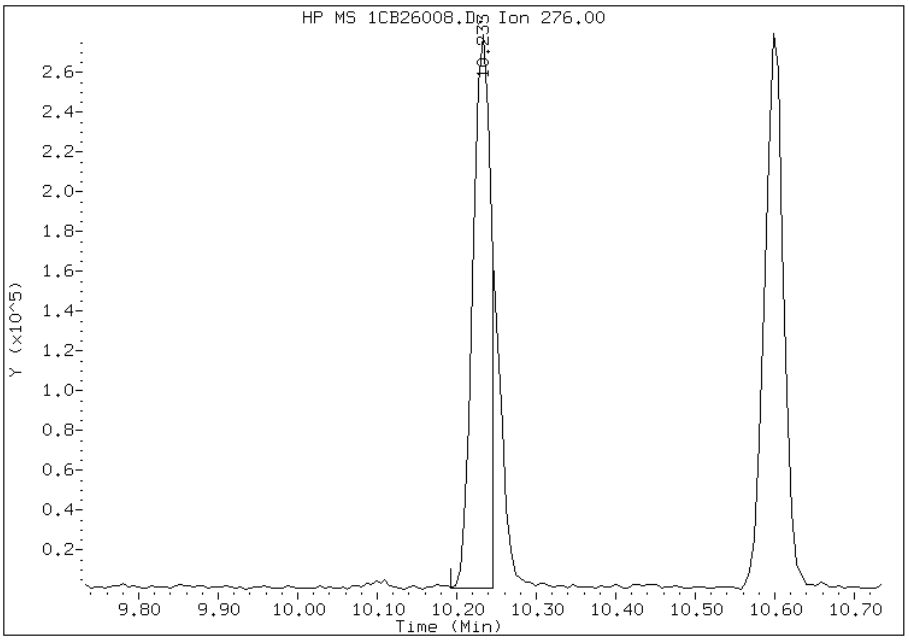
Manual Integration Results

RT: 10.23

Response: 436939

Amount: 8

Conc: 542



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 15:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-5

SDG No.: 68087545-5

Client Sample ID: | Lab Sample ID: 680-87545-A-61-C MSD

Matrix: Solid | Lab File ID: 1DB26011.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/25/2013 06:16

Sample wt/vol: 15.05(g) | Date Analyzed: 02/26/2013 17:07

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

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

% Moisture: 19.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134863 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	856		500	99
208-96-8	Acenaphthylene	907		200	25
120-12-7	Anthracene	987		42	21
56-55-3	Benzo[a]anthracene	1410		40	19
50-32-8	Benzo[a]pyrene	1340		52	26
205-99-2	Benzo[b]fluoranthene	1700		60	30
191-24-2	Benzo[g,h,i]perylene	1230		99	22
207-08-9	Benzo[k]fluoranthene	1270		40	18
218-01-9	Chrysene	1560		45	22
53-70-3	Dibenz(a,h)anthracene	1010		99	20
206-44-0	Fluoranthene	2140		99	20
86-73-7	Fluorene	929		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	1220		99	35
90-12-0	1-Methylnaphthalene	1070		200	22
91-57-6	2-Methylnaphthalene	1020		200	35
91-20-3	Naphthalene	959		200	22
85-01-8	Phenanthrene	1560		40	19
129-00-0	Pyrene	1790		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	120		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\1DB26011.D
Lab Smp Id: 680-87545-A-61-C MS
Inj Date : 26-FEB-2013 17:07
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87545-A-61-C MSD
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022613.b\dFASTPAHi.m
Meth Date : 26-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 11 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.182	6.184	(1.000)	3009450	40.0000	
* 6 Acenaphthene-d10	164	7.856	7.859	(1.000)	1876073	40.0000	
* 9 Phenanthrene-d10	188	9.114	9.116	(1.000)	3041986	40.0000	
$ 13 o-Terphenyl	230	9.425	9.427	(1.034)	140651	2.98995	790
* 17 Chrysene-d12	240	11.464	11.466	(1.000)	3086649	40.0000	
* 22 Perylene-d12	264	13.350	13.352	(1.000)	3208437	40.0000	
2 Naphthalene	128	6.199	6.208	(1.003)	233803	2.90421	770
3 2-Methylnaphthalene	142	6.904	6.907	(1.117)	159187	3.10413	820
4 1-Methylnaphthalene	142	6.993	7.001	(1.131)	155155	3.23089	860
5 Acenaphthylene	152	7.727	7.729	(0.984)	227182	2.74668	730
7 Acenaphthene	154	7.880	7.882	(1.003)	130810	2.59382	690
8 Fluorene	166	8.320	8.329	(1.059)	165874	2.81511	750
10 Phenanthrene	178	9.131	9.139	(1.002)	407720	4.72161	1200(R)
11 Anthracene	178	9.172	9.181	(1.006)	258350	2.99026	790

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.307	9.316	(1.021)	222487	2.88065	760
14 Fluoranthene	202	10.118	10.121	(1.110)	585233	6.49432	1700(R)
15 Pyrene	202	10.306	10.309	(0.899)	519456	5.42541	1400(R)
16 Benzo(a)anthracene	228	11.440	11.448	(0.998)	360271	4.26328	1100(R)
18 Chrysene	228	11.487	11.495	(1.002)	411492	4.71661	1200(R)
19 Benzo(b)fluoranthene	252	12.780	12.788	(0.957)	426158	5.16026	1400(R)
20 Benzo(k)fluoranthene	252	12.815	12.829	(0.960)	331437	3.83303	1000(R)
21 Benzo(a)pyrene	252	13.238	13.252	(0.992)	331514	4.05650	1100(R)
23 Indeno(1,2,3-cd)pyrene	276	14.960	14.980	(1.121)	322981	3.70329	980(RM)
24 Dibenzo(a,h)anthracene	278	14.995	15.015	(1.123)	246179	3.05642	810
25 Benzo(g,h,i)perylene	276	15.418	15.450	(1.155)	309175	3.71810	990(R)

QC Flag Legend

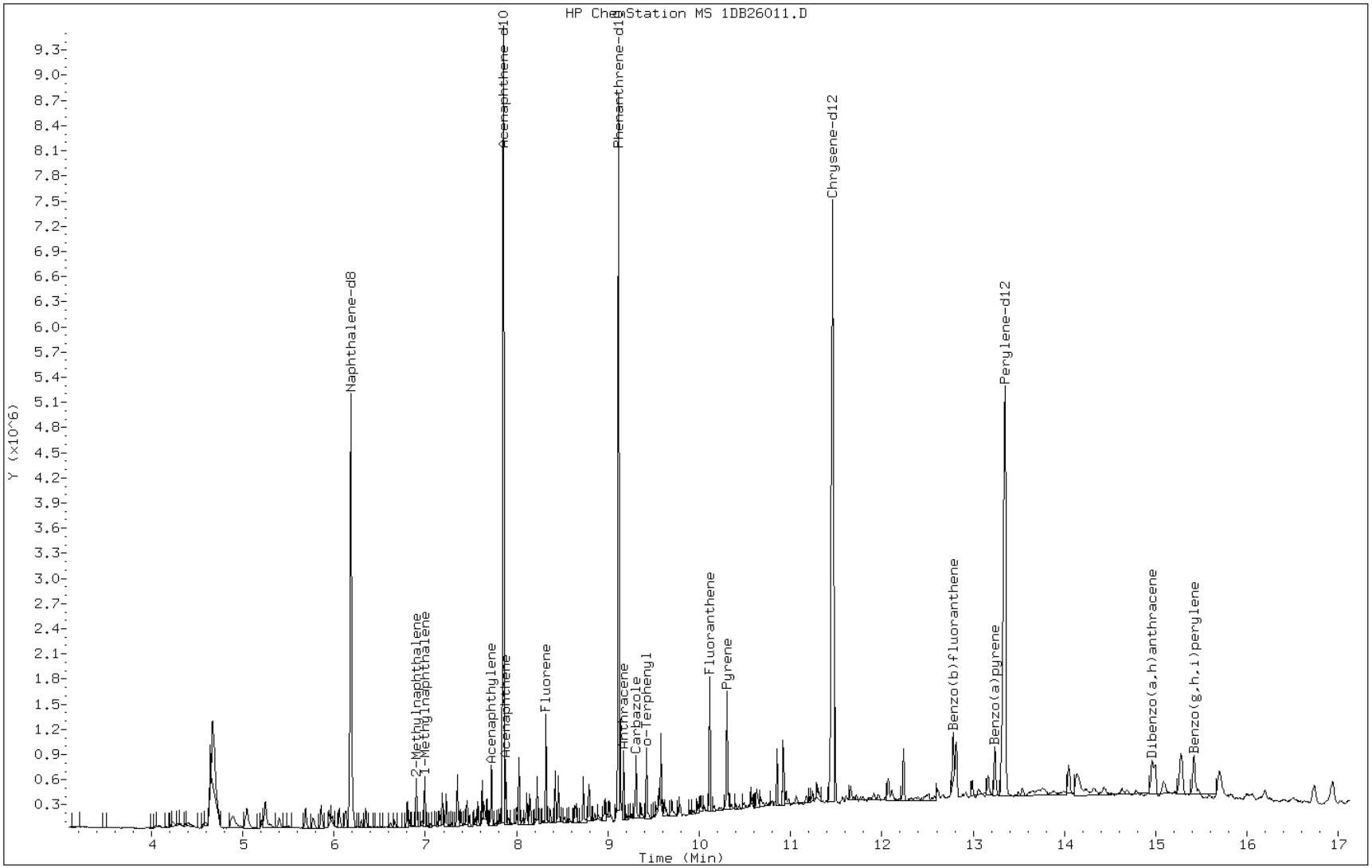
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DB26011.D

Date: 26-FEB-2013 17:07

Client ID: Instrument: BSMSD.i

Sample Info: 680-87545-A-61-C MSD Operator: SCC



Manual Integration Report

Data File: 1DB26011.D
Inj. Date and Time: 26-FEB-2013 17:07
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/28/2013

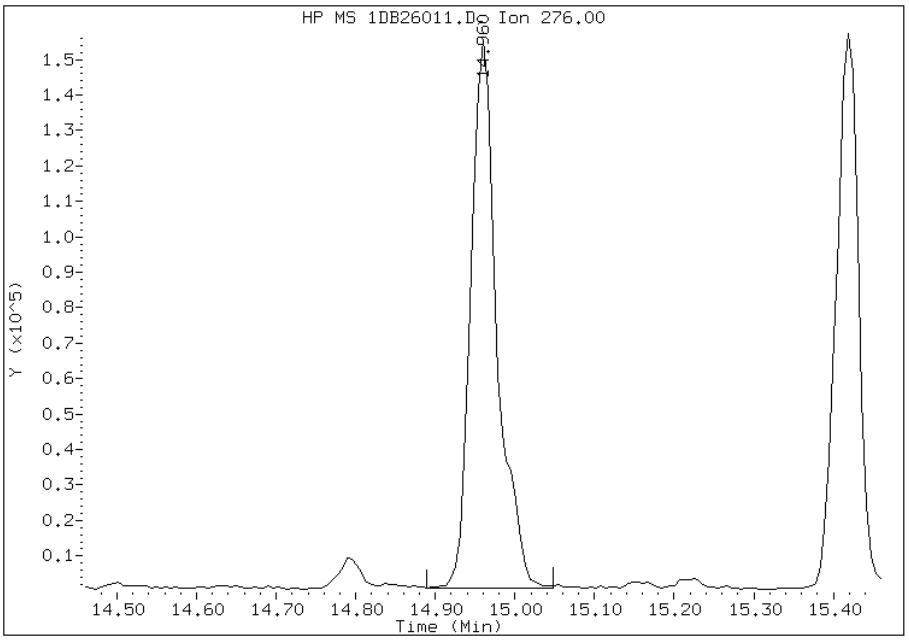
Processing Integration Results

RT: 14.96

Response: 352944

Amount: 4

Conc: 1076



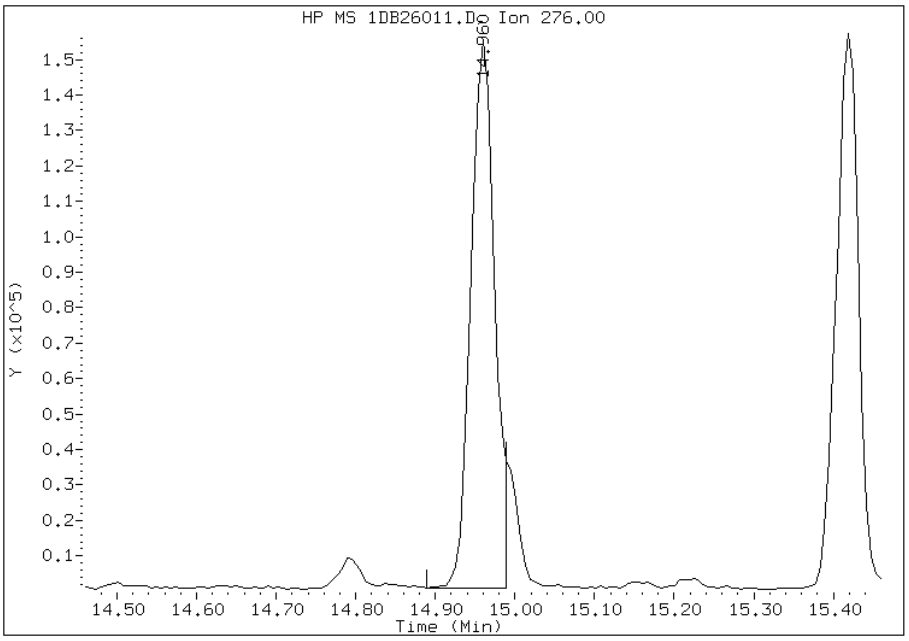
Manual Integration Results

RT: 14.96

Response: 322981

Amount: 4

Conc: 984



Manually Integrated By: cantins
Modification Date: 28-Feb-2013 10:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87545-5

SDG No.: 68087545-5

Client Sample ID: FM0161DDD-CS MSD | Lab Sample ID: 680-87545-84 MSD

Matrix: Solid | Lab File ID: 1CB26009.D

Analysis Method: 8270C LL | Date Collected: 02/15/2013 08:53

Extract. Method: 3546 | Date Extracted: 02/25/2013 10:02

Sample wt/vol: 15.06(g) | Date Analyzed: 02/26/2013 15:43

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

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

% Moisture: 3.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134862 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	612		100	21
208-96-8	Acenaphthylene	627		41	5.2
120-12-7	Anthracene	649		8.7	4.3
56-55-3	Benzo[a]anthracene	679		8.3	4.0
50-32-8	Benzo[a]pyrene	642		11	5.4
205-99-2	Benzo[b]fluoranthene	694		13	6.3
191-24-2	Benzo[g,h,i]perylene	594		21	4.5
207-08-9	Benzo[k]fluoranthene	732		8.3	3.7
218-01-9	Chrysene	632		9.3	4.6
53-70-3	Dibenz(a,h)anthracene	598		21	4.2
206-44-0	Fluoranthene	666		21	4.1
86-73-7	Fluorene	628		21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	604		21	7.3
90-12-0	1-Methylnaphthalene	738		41	4.5
91-57-6	2-Methylnaphthalene	699		41	7.3
91-20-3	Naphthalene	676		41	4.5
85-01-8	Phenanthrene	662		8.3	4.0
129-00-0	Pyrene	766		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	99		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.b\1CB26009.D
Lab Smp Id: 680-87545-a-84-c ms
Inj Date : 26-FEB-2013 15:43
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87545-a-84-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022613.b\a-bFASTPAHi-m.m
Meth Date : 26-Feb-2013 14:08 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.060	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	3.798	3.798	(1.000)	1429789	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.886	(1.000)	1175869	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2148571	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	321969	9.92513	659.0395
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2304284	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2138785	40.0000	
2 Naphthalene	128	3.810	3.810	(1.003)	365783	9.82685	652.5132
3 2-Methylnaphthalene	142	4.239	4.239	(1.116)	252289	10.1610	674.6985
4 1-Methylnaphthalene	142	4.304	4.304	(1.133)	242539	10.7254	712.1783
5 Acenaphthylene	152	4.804	4.804	(0.983)	432411	9.12118	605.6561
7 Acenaphthene	154	4.910	4.910	(1.005)	262141	8.89629	590.7232
9 Fluorene	166	5.227	5.227	(1.070)	340060	9.12533	605.9313
11 Phenanthrene	178	5.857	5.857	(1.002)	597503	9.61742	638.6066
12 Anthracene	178	5.892	5.892	(1.008)	573261	9.43484	626.4835

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.998	5.998	(1.026)	507101	9.38878	623.4248
15 Fluoranthene	202	6.704	6.704	(1.147)	658685	9.68131	642.8491
16 Pyrene	202	6.868	6.868	(0.881)	689734	11.1383	739.5974
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	656661	9.87370	655.6239
19 Chrysene	228	7.815	7.815	(1.002)	611427	9.18665	610.0032
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	564264	10.0952	670.3306
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	610584	10.6487	707.0831
22 Benzo(a)pyrene	252	8.957	8.956	(0.993)	506910	9.33677	619.9716
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.227	(1.135)	448685	8.78514	583.3425(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.245	(1.137)	434067	8.68885	576.9491
26 Benzo(g,h,i)perylene	276	10.598	10.597	(1.175)	461037	8.62931	572.9955

QC Flag Legend

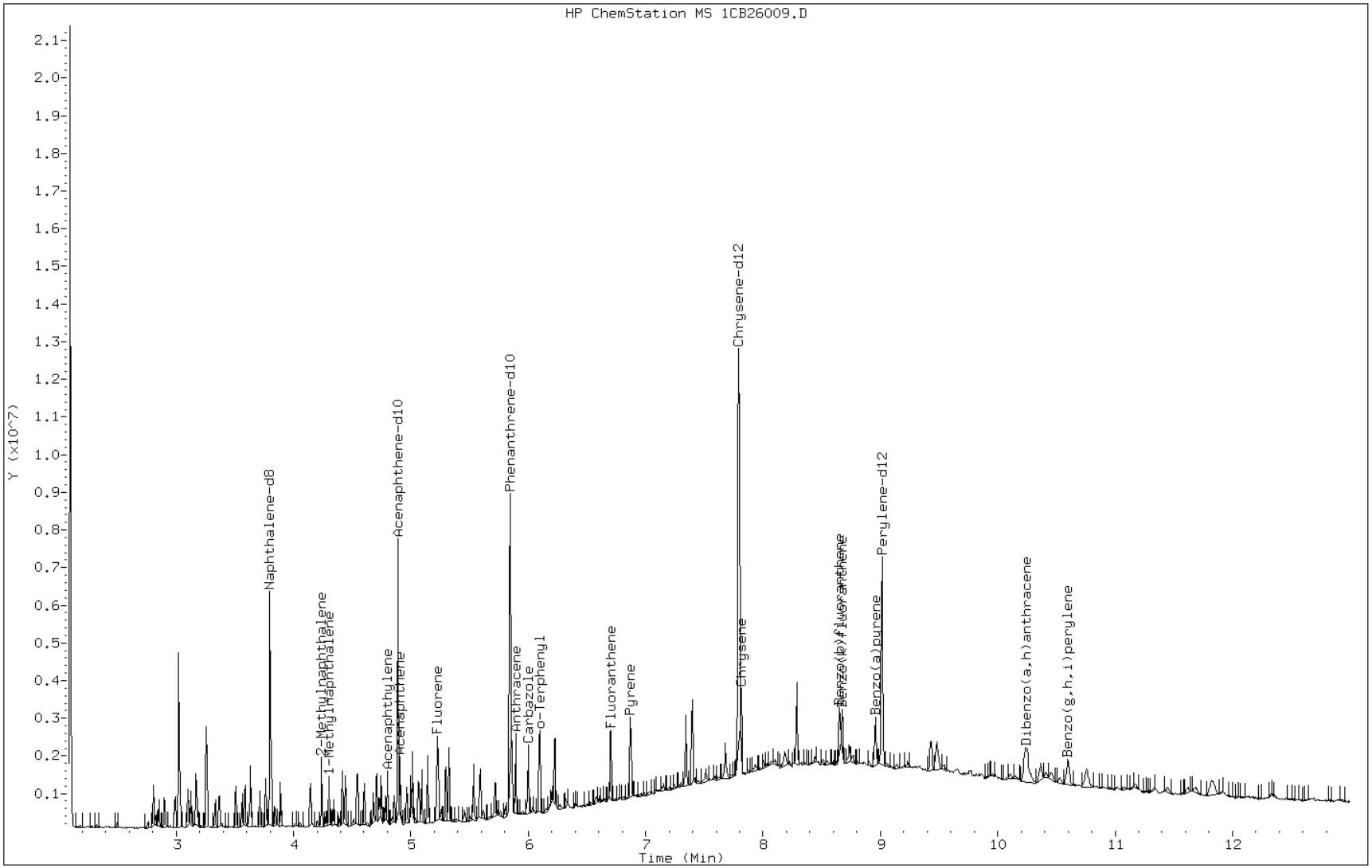
M - Compound response manually integrated.

Data File: 1CB26009.D

Date: 26-FEB-2013 15:43

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87545-a-84-c msd Operator: SCC



Manual Integration Report

Data File: 1CB26009.D
Inj. Date and Time: 26-FEB-2013 15:43
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/26/2013

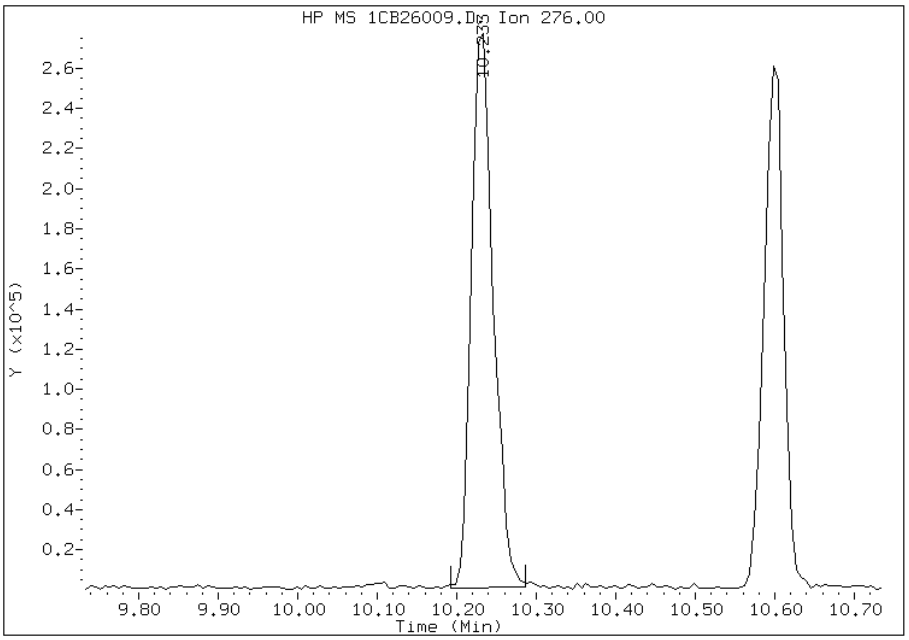
Processing Integration Results

RT: 10.23

Response: 527773

Amount: 10

Conc: 686



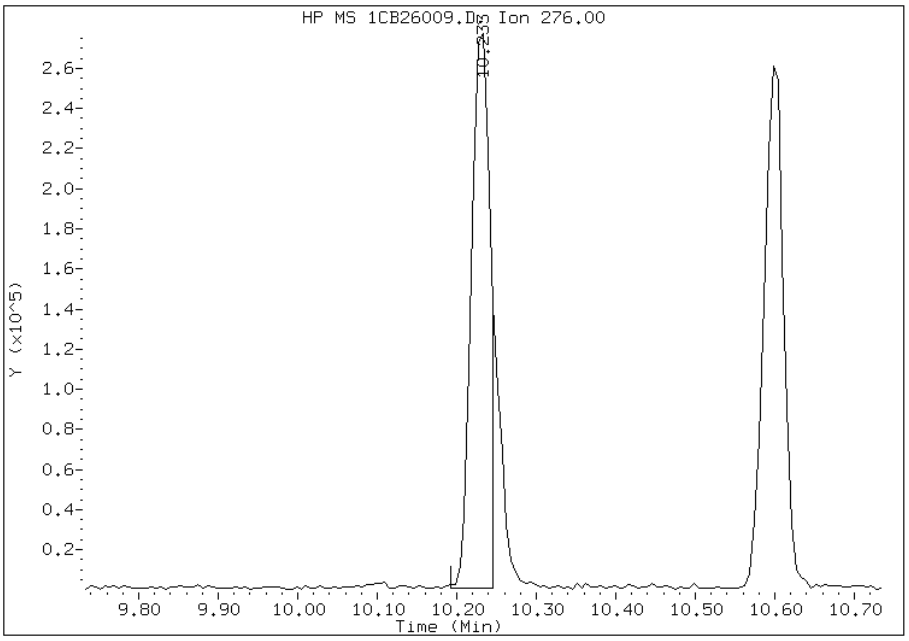
Manual Integration Results

RT: 10.23

Response: 448685

Amount: 9

Conc: 583



Manually Integrated By: cantins
Modification Date: 26-Feb-2013 15:58
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: BSMC5973 Start Date: 02/22/2013 11:04

Analysis Batch Number: 134776 End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250(um)
DFTPP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250(um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250(um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250(um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250(um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250(um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250(um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250(um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250(um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:21	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:40	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:11	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: BSMC5973 Start Date: 02/26/2013 13:00

Analysis Batch Number: 134862 End Date: 02/26/2013 15:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/26/2013 13:00	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 13:18	1		DB-5MS 250(um)
DFTPP 660-134862/2		02/26/2013 13:36	1	1CB26002.D	DB-5MS 250(um)
CCVIS 660-134862/3		02/26/2013 13:53	1	1CB26003.D	DB-5MS 250(um)
ZZZZZ		02/26/2013 14:11	1		DB-5MS 250(um)
MB 660-134800/1-A		02/26/2013 14:29	1	1CB26005.D	DB-5MS 250(um)
LCS 660-134800/2-A		02/26/2013 14:48	1	1CB26006.D	DB-5MS 250(um)
680-87545-84	FM0161DDD-CS	02/26/2013 15:06	1	1CB26007.D	DB-5MS 250(um)
680-87545-84 MS	FM0161DDD-CS MS	02/26/2013 15:25	1	1CB26008.D	DB-5MS 250(um)
680-87545-84 MSD	FM0161DDD-CS MSD	02/26/2013 15:43	1	1CB26009.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: BSMD5973 Start Date: 02/22/2013 11:10

Analysis Batch Number: 134781 End Date: 02/22/2013 20:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:10	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 11:33	1		DB-5MS 250(um)
DFTPP 660-134781/2		02/22/2013 11:57	1	1DB22002.D	DB-5MS 250(um)
IC 660-134781/3		02/22/2013 12:13	1	1DB22003.D	DB-5MS 250(um)
IC 660-134781/4		02/22/2013 12:35	1	1DB22004.D	DB-5MS 250(um)
IC 660-134781/5		02/22/2013 12:58	1	1DB22005.D	DB-5MS 250(um)
IC 660-134781/6		02/22/2013 13:21	1	1DB22006.D	DB-5MS 250(um)
ICIS 660-134781/7		02/22/2013 13:43	1	1DB22007.D	DB-5MS 250(um)
IC 660-134781/8		02/22/2013 14:06	1	1DB22008.D	DB-5MS 250(um)
IC 660-134781/9		02/22/2013 14:28	1	1DB22009.D	DB-5MS 250(um)
ICV 660-134781/10		02/22/2013 14:51	1	1DB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 15:33	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:56	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:21	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:44	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:42	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:04	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:27	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:49	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:12	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:34	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:57	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:42	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: BSMD5973 Start Date: 02/26/2013 12:57

Analysis Batch Number: 134863 End Date: 02/27/2013 00:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/26/2013 12:57	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 13:20	1		DB-5MS 250(um)
DFTPP 660-134863/2		02/26/2013 13:44	1	1DB26002.D	DB-5MS 250(um)
CCVIS 660-134863/3		02/26/2013 14:04	1	1DB26003.D	DB-5MS 250(um)
ZZZZZ		02/26/2013 14:28	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 14:50	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 15:13	1		DB-5MS 250(um)
MB 660-134788/1-A		02/26/2013 15:37	1	1DB26007.D	DB-5MS 250(um)
LCS 660-134788/2-A		02/26/2013 15:59	1	1DB26008.D	DB-5MS 250(um)
ZZZZZ		02/26/2013 16:22	4		DB-5MS 250(um)
680-87545-A-61-B MS		02/26/2013 16:45	4	1DB26010.D	DB-5MS 250(um)
680-87545-A-61-C MSD		02/26/2013 17:07	4	1DB26011.D	DB-5MS 250(um)
ZZZZZ		02/26/2013 17:30	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 17:53	4		DB-5MS 250(um)
ZZZZZ		02/26/2013 18:15	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 18:38	4		DB-5MS 250(um)
ZZZZZ		02/26/2013 19:00	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 19:23	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 19:46	4		DB-5MS 250(um)
ZZZZZ		02/26/2013 20:08	4		DB-5MS 250(um)
ZZZZZ		02/26/2013 20:31	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 20:53	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 21:16	1		DB-5MS 250(um)
680-87545-85	FM0161EEE-CS	02/26/2013 21:38	1	1DB26023.D	DB-5MS 250(um)
680-87545-86	FM0161FFF-CS	02/26/2013 22:01	4	1DB26024.D	DB-5MS 250(um)
680-87545-87	FM0161GGG-CS	02/26/2013 22:24	1	1DB26025.D	DB-5MS 250(um)
680-87545-88	FM0161GGG-CSD	02/26/2013 22:46	1	1DB26026.D	DB-5MS 250(um)
680-87545-89	FM0161HHH-CS	02/26/2013 23:09	1	1DB26027.D	DB-5MS 250(um)
680-87545-90	FM0161III-CS	02/26/2013 23:31	1	1DB26028.D	DB-5MS 250(um)
680-87545-91	FM0161JJJ-CS	02/26/2013 23:54	1	1DB26029.D	DB-5MS 250(um)
ZZZZZ		02/27/2013 00:17	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Batch Number: 134788 Batch Start Date: 02/25/13 06:16 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/25/13 13:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00176		
MB 660-134788/1		3546, 8270C LL		15.00 g	1 mL		1 mL		
LCS 660-134788/2		3546, 8270C LL		15.05 g	1 mL	1 mL	1 mL		
680-87545-A-61 MS		3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		
680-87545-A-61 MSD		3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		
680-87545-A-85	FM0161EEE-CS	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-87545-A-86	FM0161FFF-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-87545-A-87	FM0161GGG-CS	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-87545-A-88	FM0161GGG-CSD	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-87545-A-89	FM0161HHH-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-87545-A-90	FM0161III-CS	3546, 8270C LL	T	15.32 g	1 mL		1 mL		
680-87545-A-91	FM0161JJJ-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Batch Number: 134788 Batch Start Date: 02/25/13 06:16 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/25/13 13:45

Batch Notes	
Acetone Lot #	EX ACETON BOT _46
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCLL _54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _54
MeCl2/Acetone Lot #	EX DCM/ ACETON _23
Microwave Start Time	7.45/2/25/13
Microwave Stop Time	8.20/2/25/13
Ottawa Sand Lot #	OTTAWASAND_11
Person's name who did the prep	AG
SOP Number	TB P EX 014
Person who witnessed spiking	THOMAS
Surrogate Lot Number	EX LLSURINT _176
Water Bath ID	TURBOVAP2#1/2/3/4
Water Bath Temperature	40C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Batch Number: 134800 Batch Start Date: 02/25/13 10:02 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/25/13 16:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00176		
MB 660-134800/1		3546, 8270C LL		15.13 g	1 mL		1 mL		
LCS 660-134800/2		3546, 8270C LL		14.98 g	1 mL	1 mL	1 mL		
680-87545-A-84	FM0161DDD-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-87545-A-84 MS	FM0161DDD-CS	3546, 8270C LL	T	15.06 g	1 mL	1 mL	1 mL		
680-87545-A-84 MSD	FM0161DDD-CS	3546, 8270C LL	T	15.06 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT_46
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SC
Exchange Solvent Lot #	EX-MC CYCL_54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	EX-DCM/ACETON_23
Microwave Start Time	11:35 2/25/13
Microwave Stop Time	12:10 2/25/13
Na2SO4 Lot Number	EX-NA2S04A_63
Ottawa Sand Lot #	EX-OTTOWA SAND_11
Person's name who did the prep	AG
SOP Number	TP-EX014
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT_176
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Batch Number: 134800 Batch Start Date: 02/25/13 10:02 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/25/13 16:30

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87545-5

SDG No.: 68087545-5

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
FM0161DDD-CS	680-87545-84
FM0161EEE-CS	680-87545-85
FM0161FFF-CS	680-87545-86
FM0161GGG-CS	680-87545-87
FM0161GGG-CSD	680-87545-88
FM0161HHH-CS	680-87545-89
FM0161III-CS	680-87545-90
FM0161JJJ-CS	680-87545-91

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87545-5

SDG Number: 68087545-5

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87545-5

SDG Number: 68087545-5

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87545-5

SDG Number: 68087545-5

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87545-5

SDG Number: 68087545-5

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: Moisture Method: Moisture

Start Date: 02/20/2013 09:44 End Date: 02/20/2013 14:27

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCS 660-134675/1	1	T	09:44	X																			
LCSD 660-134675/22	1	T	09:45	X																			
ZZZZZZ			10:10																				
ZZZZZZ			10:13																				
ZZZZZZ			10:34																				
ZZZZZZ			10:44																				
ZZZZZZ			11:39																				
ZZZZZZ			11:44																				
680-87545-A-61 MS	1	T	11:57	X																			
ZZZZZZ			11:59																				
680-87545-A-61 MSD	1	T	12:20	X																			
ZZZZZZ			12:37																				
ZZZZZZ			12:43																				
680-87545-91	1	T	13:01	X																			
680-87545-90	1	T	13:14	X																			
680-87545-88	1	T	13:40	X																			
ZZZZZZ			13:42																				
ZZZZZZ			13:45																				
ZZZZZZ			13:50																				
ZZZZZZ			14:03																				
ZZZZZZ			14:07																				
ZZZZZZ			14:27																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: Moisture Method: Moisture

Start Date: 02/21/2013 06:22 End Date: 02/21/2013 07:52

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134686/13	1	T	06:22	X																			
LCS 660-134686/1	1	T	06:22	X																			
ZZZZZZ			06:30																				
ZZZZZZ			06:33																				
ZZZZZZ			06:37																				
ZZZZZZ			06:37																				
ZZZZZZ			06:51																				
ZZZZZZ			07:01																				
ZZZZZZ			07:03																				
ZZZZZZ			07:15																				
ZZZZZZ			07:21																				
ZZZZZZ			07:27																				
680-87545-89	1	T	07:52	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/20/2013 12:41 End Date: 02/20/2013 12:41

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-134667/1	1	T	12:41	X																			
ZZZZZZ			12:41																				
ZZZZZZ			12:41																				
ZZZZZZ			12:41																				
ZZZZZZ			12:41																				
ZZZZZZ			12:41																				
ZZZZZZ			12:41																				
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ZZZZZZ			12:41																				
ZZZZZZ			12:41																				
ZZZZZZ			12:41																				
680-87545-84	1	T	12:41	X																			
680-87545-84 MS	1	T	12:41	X																			
680-87545-84 MSD	1	T	12:41	X																			
680-87545-85	1	T	12:41	X																			
680-87545-86	1	T	12:41	X																			
680-87545-87	1	T	12:41	X																			
ZZZZZZ			12:41																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Batch Number: 134667 Batch Start Date: 02/20/13 12:41 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-134667/1		Moisture		1	0 g	10.36 g	10.39 g		
680-87545-A-84	FM0161DDD-CS	Moisture	T	19	0 g	4.91 g	4.74 g		
680-87545-A-84 MS	FM0161DDD-CS	Moisture	T		0 g	4.91 g	4.74 g		
680-87545-A-84 MSD	FM0161DDD-CS	Moisture	T		0 g	4.91 g	4.74 g		
680-87545-A-85	FM0161EEE-CS	Moisture	T	20	0 g	4.34 g	4.22 g		
680-87545-A-86	FM0161FFF-CS	Moisture	T	21	0 g	4.63 g	4.35 g		
680-87545-A-87	FM0161GGG-CS	Moisture	T	22	0 g	4.40 g	4.25 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.20.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Batch Number: 134675 Batch Start Date: 02/20/13 09:44 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134675/1		Moisture		0 g	10.018 g	9.026 g			
680-87545-A-61 MSD		Moisture	T	0 g	4.387 g	3.516 g			
680-87545-A-90	FM0161III-CS	Moisture	T	0 g	4.512 g	3.198 g			
680-87545-A-88	FM0161GGG-CSD	Moisture	T	0 g	4.72 g	3.341 g			
680-87545-A-91	FM0161JJJ-CS	Moisture	T	0 g	4.29 g	3.06 g			
680-87545-A-61 MS		Moisture	T	0 g	4.589 g	3.663 g			
LCSD 660-134675/22		Moisture		0 g	10.017 g	9.012 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87545-5

SDG No.: 68087545-5

Batch Number: 134686 Batch Start Date: 02/21/13 06:22 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134686/1		Moisture		0 g	10.03 g	9.007 g			
680-87545-A-89	FM0161HHH-CS	Moisture	T	0 g	4.309 g	3.159 g			
LCSD 660-134686/13		Moisture		0 g	10.044 g	9.017 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 59546

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: 85th Ave Removal	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): 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: LKrebs@otie.com	
CLIENT ADDRESS:		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 7 OF 8

STANDARD REPORT DELIVERY ( )
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH 8270	RCRA Metals									REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
2/14/13	1618	FM0161XX-CS	C		X			X										
	1621	FM0161YY-CS	C		X			X										
	1631	FM0161ZZ-CS	C		X			X										
	846	CV0240A-CS (sieve)	C		X				X									
	858	CV0240B-CS (sieve)	C		X				X									
	1338	CV0109B-CS-SP (sieve)	C		X				X									
2/15/13	852	CV0367A-CS-SP	C		X			X										
	827	CV0367B-CS-SP	C		X			X	X									
	832	FM0161AAA-CS	C		X			X										
	839	FM0161BBB-CS	C		X			X										
	847	FM0161CCC-CS	C		X			X										
	853	FM0161DDD-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/15/13	1130						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Daughtry	2/16/13	0903	YES ( ) NO ( )		80 87545	Temp 2.8°C, 3.4°C

TAL8240-680 (1008)

Serial Number 59534

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

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Alternate Laboratory Name/Location

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Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	20051148-1356	AL	8	8

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)

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH 8270	RCRA Metals									REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
2/15/13	854	FM0161EEE-CS	C		X			X										
	912	FM0161FFF-CS	C		X			X	X									
	914	FM0161GGG-CS	C		X			X										
	917	FM0161GGG-CSD	C		X			X										
	924	FM0161HHH-CS	C		X			X										
	929	FM0161III-CS	C		X			X										
	933	FM0161JJJ-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/15/13	1130						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Daughtry	2/16/13	0903	YES ◯ NO ◯		680 87545	Temp 2.8°C, 3.4°C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-5
SDG Number: 68087545-5

Login Number: 87545
List Number: 1
Creator: Daughtry, Beth

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87545-5
SDG Number: 68087545-5

Login Number: 87545
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 02/19/13 10:59 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	