ANALYTICAL REPORT

Job Number: 680-87447-1

SDG Number: 68087447-1

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
2/25/2013 11:17 AM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
02/25/2013

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TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87447-1

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 02/14/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0971AB-GS (680-87447-1), CV0971A-CS (680-87447-2), CV0971B-CS (680-87447-3), CV0971C-CS (680-87447-4), CV0971D-CS (680-87447-5), CV0971E-CS (680-87447-6), CV0971F-CS (680-87447-7), CV0971G-CS (680-87447-8), CV0971H-CS (680-87447-9), CV0971I-CS (680-87447-10), CV0971J-CS (680-87447-11), CV0971K-CS (680-87447-12), CV0971L-CS (680-87447-13), CV0971M-CS (680-87447-14), CV0971N-CS (680-87447-15), CV0971O-CS (680-87447-16), CV0971O-CSD (680-87447-17), CV0971AC-GS (680-87447-18), CV0971AD-GS (680-87447-19), CV0971AE-GS (680-87447-20) and CV0971AF-GS (680-87447-21) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/19/2013 and analyzed on 02/20/2013 and 02/21/2013.

Samples CV0971AB-GS (680-87447-1)[4X], CV0971A-CS (680-87447-2)[4X], CV0971B-CS (680-87447-3)[4X], CV0971F-CS (680-87447-7)[4X], CV0971H-CS (680-87447-9)[4X], CV0971O-CS (680-87447-16)[4X], CV0971O-CSD (680-87447-17)[4X] and CV0971AC-GS (680-87447-18)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87447-1
Sdg Number: 68087447-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87447-1	CV0971AB-GS	Solid	02/12/2013 0931	02/14/2013 1018
680-87447-2	CV0971A-CS	Solid	02/12/2013 0845	02/14/2013 1018
680-87447-2MS	CV0971A-CS	Solid	02/12/2013 0845	02/14/2013 1018
680-87447-2MSD	CV0971A-CS	Solid	02/12/2013 0845	02/14/2013 1018
680-87447-3	CV0971B-CS	Solid	02/12/2013 0851	02/14/2013 1018
680-87447-4	CV0971C-CS	Solid	02/12/2013 0854	02/14/2013 1018
680-87447-5	CV0971D-CS	Solid	02/12/2013 0902	02/14/2013 1018
680-87447-6	CV0971E-CS	Solid	02/12/2013 0913	02/14/2013 1018
680-87447-7	CV0971F-CS	Solid	02/12/2013 0910	02/14/2013 1018
680-87447-8	CV0971G-CS	Solid	02/12/2013 0915	02/14/2013 1018
680-87447-9	CV0971H-CS	Solid	02/12/2013 0923	02/14/2013 1018
680-87447-10	CV0971I-CS	Solid	02/12/2013 0925	02/14/2013 1018
680-87447-11	CV0971J-CS	Solid	02/12/2013 0927	02/14/2013 1018
680-87447-12	CV0971K-CS	Solid	02/12/2013 0940	02/14/2013 1018
680-87447-13	CV0971L-CS	Solid	02/12/2013 0944	02/14/2013 1018
680-87447-14	CV0971M-CS	Solid	02/12/2013 0951	02/14/2013 1018
680-87447-15	CV0971N-CS	Solid	02/12/2013 0958	02/14/2013 1018
680-87447-16	CV0971O-CS	Solid	02/12/2013 1029	02/14/2013 1018
680-87447-17	CV0971O-CSD	Solid	02/12/2013 1031	02/14/2013 1018
680-87447-18	CV0971AC-GS	Solid	02/12/2013 1005	02/14/2013 1018
680-87447-19	CV0971AD-GS	Solid	02/12/2013 1023	02/14/2013 1018
680-87447-20	CV0971AE-GS	Solid	02/12/2013 1025	02/14/2013 1018
680-87447-21	CV0971AF-GS	Solid	02/12/2013 1027	02/14/2013 1018

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87447-1
Sdg Number: 68087447-1

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: 680-87447-1
Sdg Number: 68087447-1

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87447-1
Sdg Number: 68087447-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	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: 680-87447-1
Sdg Number: 68087447-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134620					
LCS 660-134620/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134620/1-A	Method Blank	T	Solid	3546	
680-87447-1	CV0971AB-GS	T	Solid	3546	
680-87447-2	CV0971A-CS	T	Solid	3546	
680-87447-2MS	Matrix Spike	T	Solid	3546	
680-87447-2MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87447-3	CV0971B-CS	T	Solid	3546	
680-87447-4	CV0971C-CS	T	Solid	3546	
680-87447-5	CV0971D-CS	T	Solid	3546	
680-87447-6	CV0971E-CS	T	Solid	3546	
680-87447-7	CV0971F-CS	T	Solid	3546	
680-87447-8	CV0971G-CS	T	Solid	3546	
680-87447-9	CV0971H-CS	T	Solid	3546	
680-87447-10	CV0971I-CS	T	Solid	3546	
680-87447-11	CV0971J-CS	T	Solid	3546	
680-87447-12	CV0971K-CS	T	Solid	3546	
680-87447-13	CV0971L-CS	T	Solid	3546	
680-87447-14	CV0971M-CS	T	Solid	3546	
680-87447-15	CV0971N-CS	T	Solid	3546	
Prep Batch: 660-134632					
LCS 660-134632/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134632/1-A	Method Blank	T	Solid	3546	
680-87447-16	CV0971O-CS	T	Solid	3546	
680-87447-17	CV0971O-CSD	T	Solid	3546	
680-87447-18	CV0971AC-GS	T	Solid	3546	
680-87447-19	CV0971AD-GS	T	Solid	3546	
680-87447-20	CV0971AE-GS	T	Solid	3546	
680-87447-21	CV0971AF-GS	T	Solid	3546	
680-87447-A-24-B MS	Matrix Spike	T	Solid	3546	
680-87447-A-24-C MSD	Matrix Spike Duplicate	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87447-1
Sdg Number: 68087447-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-134694					
LCS 660-134620/2-A	Lab Control Sample	T	Solid	8270C LL	660-134620
MB 660-134620/1-A	Method Blank	T	Solid	8270C LL	660-134620
LCS 660-134632/2-A	Lab Control Sample	T	Solid	8270C LL	660-134632
MB 660-134632/1-A	Method Blank	T	Solid	8270C LL	660-134632
680-87447-1	CV0971AB-GS	T	Solid	8270C LL	660-134620
680-87447-2	CV0971A-CS	T	Solid	8270C LL	660-134620
680-87447-2MS	Matrix Spike	T	Solid	8270C LL	660-134620
680-87447-2MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134620
680-87447-3	CV0971B-CS	T	Solid	8270C LL	660-134620
680-87447-4	CV0971C-CS	T	Solid	8270C LL	660-134620
680-87447-5	CV0971D-CS	T	Solid	8270C LL	660-134620
680-87447-6	CV0971E-CS	T	Solid	8270C LL	660-134620
680-87447-7	CV0971F-CS	T	Solid	8270C LL	660-134620
680-87447-8	CV0971G-CS	T	Solid	8270C LL	660-134620
680-87447-9	CV0971H-CS	T	Solid	8270C LL	660-134620
680-87447-10	CV0971I-CS	T	Solid	8270C LL	660-134620
680-87447-11	CV0971J-CS	T	Solid	8270C LL	660-134620
680-87447-12	CV0971K-CS	T	Solid	8270C LL	660-134620
680-87447-13	CV0971L-CS	T	Solid	8270C LL	660-134620
680-87447-14	CV0971M-CS	T	Solid	8270C LL	660-134620
680-87447-15	CV0971N-CS	T	Solid	8270C LL	660-134620
680-87447-16	CV0971O-CS	T	Solid	8270C LL	660-134632
680-87447-17	CV0971O-CSD	T	Solid	8270C LL	660-134632
680-87447-18	CV0971AC-GS	T	Solid	8270C LL	660-134632
680-87447-19	CV0971AD-GS	T	Solid	8270C LL	660-134632
680-87447-20	CV0971AE-GS	T	Solid	8270C LL	660-134632
680-87447-21	CV0971AF-GS	T	Solid	8270C LL	660-134632
680-87447-A-24-B MS	Matrix Spike	T	Solid	8270C LL	660-134632
680-87447-A-24-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134632

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87447-1
Sdg Number: 68087447-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134540					
MB 660-134540/1	Method Blank	T	Solid	Moisture	
680-87447-1	CV0971AB-GS	T	Solid	Moisture	
680-87447-2	CV0971A-CS	T	Solid	Moisture	
680-87447-3	CV0971B-CS	T	Solid	Moisture	
680-87447-4	CV0971C-CS	T	Solid	Moisture	
680-87447-5	CV0971D-CS	T	Solid	Moisture	
680-87447-16	CV0971O-CS	T	Solid	Moisture	
680-87447-17	CV0971O-CSD	T	Solid	Moisture	
680-87447-18	CV0971AC-GS	T	Solid	Moisture	
680-87447-19	CV0971AD-GS	T	Solid	Moisture	
680-87447-20	CV0971AE-GS	T	Solid	Moisture	
680-87447-21	CV0971AF-GS	T	Solid	Moisture	
Analysis Batch:660-134547					
MB 660-134547/1	Method Blank	T	Solid	Moisture	
680-87447-6	CV0971E-CS	T	Solid	Moisture	
680-87447-7	CV0971F-CS	T	Solid	Moisture	
680-87447-8	CV0971G-CS	T	Solid	Moisture	
680-87447-9	CV0971H-CS	T	Solid	Moisture	
680-87447-10	CV0971I-CS	T	Solid	Moisture	
680-87447-12	CV0971K-CS	T	Solid	Moisture	
680-87447-13	CV0971L-CS	T	Solid	Moisture	
680-87447-14	CV0971M-CS	T	Solid	Moisture	
680-87447-15	CV0971N-CS	T	Solid	Moisture	
Analysis Batch:660-134548					
MB 660-134548/1	Method Blank	T	Solid	Moisture	
680-87447-11	CV0971J-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: BSMC5973 Analysis Batch Number: 133227

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: BSMC5973 Analysis Batch Number: 133227

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

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

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

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: BSMC5973 Analysis Batch Number: 133227

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: BSMC5973 Analysis Batch Number: 134694

Lab Sample ID: CCVIS 660-134694/3 Client Sample ID:

Date Analyzed: 02/20/13 14:21 Lab File ID: 1CB20003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 14:36

Lab Sample ID: LCS 660-134620/2-A Client Sample ID:

Date Analyzed: 02/20/13 15:15 Lab File ID: 1CB20006.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	02/20/13 17:42

Lab Sample ID: 680-87447-1 Client Sample ID: CV0971AB-GS

Date Analyzed: 02/20/13 17:05 Lab File ID: 1CB20012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/21/13 09:20
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 09:20
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 09:20
Dibenz(a,h)anthracene	10.25	Baseline Event	cantins	02/21/13 09:20
Benzo[g,h,i]perylene	10.60	Baseline Event	cantins	02/21/13 09:20

Lab Sample ID: 680-87447-2 Client Sample ID: CV0971A-CS

Date Analyzed: 02/20/13 17:23 Lab File ID: 1CB20013.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	02/21/13 09:22
Dibenz(a,h)anthracene	10.24	Baseline Event	cantins	02/21/13 09:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: BSMC5973 Analysis Batch Number: 134694

Lab Sample ID: 680-87447-2 MS Client Sample ID: CV0971A-CS MS

Date Analyzed: 02/20/13 17:41 Lab File ID: 1CB20014.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	02/21/13 09:35

Lab Sample ID: 680-87447-2 MSD Client Sample ID: CV0971A-CS MSD

Date Analyzed: 02/20/13 17:59 Lab File ID: 1CB20015.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	02/21/13 09:35

Lab Sample ID: 680-87447-3 Client Sample ID: CV0971B-CS

Date Analyzed: 02/20/13 18:18 Lab File ID: 1CB20016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/21/13 11:16
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:16
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:17

Lab Sample ID: 680-87447-4 Client Sample ID: CV0971C-CS

Date Analyzed: 02/20/13 18:36 Lab File ID: 1CB20017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/21/13 11:17
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:17
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:18
Benzo[g,h,i]perylene	10.59	Baseline Event	cantins	02/21/13 11:18

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: BSMC5973 Analysis Batch Number: 134694

Lab Sample ID: 680-87447-5 Client Sample ID: CV0971D-CS

Date Analyzed: 02/20/13 18:54 Lab File ID: 1CB20018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/21/13 11:19
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:19
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:19
Benzo[g,h,i]perylene	10.59	Baseline Event	cantins	02/21/13 11:19

Lab Sample ID: 680-87447-6 Client Sample ID: CV0971E-CS

Date Analyzed: 02/20/13 19:12 Lab File ID: 1CB20019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.67	Analyte Misidentified by the Data System	cantins	02/21/13 11:22
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:22

Lab Sample ID: 680-87447-7 Client Sample ID: CV0971F-CS

Date Analyzed: 02/20/13 19:31 Lab File ID: 1CB20020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	02/21/13 11:22
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:23
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	02/21/13 11:23

Lab Sample ID: 680-87447-8 Client Sample ID: CV0971G-CS

Date Analyzed: 02/20/13 19:49 Lab File ID: 1CB20021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	02/21/13 11:38
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:38
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: BSMC5973 Analysis Batch Number: 134694

Lab Sample ID: 680-87447-9 Client Sample ID: CV0971H-CS

Date Analyzed: 02/20/13 20:07 Lab File ID: 1CB20022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	02/21/13 11:39
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:39
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:40

Lab Sample ID: 680-87447-10 Client Sample ID: CV0971I-CS

Date Analyzed: 02/20/13 20:25 Lab File ID: 1CB20023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	02/21/13 11:41
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:41
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:42
Dibenz(a,h)anthracene	10.25	Baseline Event	cantins	02/21/13 11:41

Lab Sample ID: 680-87447-11 Client Sample ID: CV0971J-CS

Date Analyzed: 02/20/13 20:44 Lab File ID: 1CB20024.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	02/21/13 11:43
Dibenz(a,h)anthracene	10.25	Baseline Event	cantins	02/21/13 11:43

Lab Sample ID: 680-87447-12 Client Sample ID: CV0971K-CS

Date Analyzed: 02/20/13 21:02 Lab File ID: 1CB20025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	02/21/13 11:45
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:46
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:46

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: BSMC5973 Analysis Batch Number: 134694

Lab Sample ID: 680-87447-13 Client Sample ID: CV0971L-CS

Date Analyzed: 02/20/13 21:20 Lab File ID: 1CB20026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	02/21/13 11:46
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:47
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:47
Benzo[g,h,i]perylene	10.59	Baseline Event	cantins	02/21/13 11:47

Lab Sample ID: 680-87447-14 Client Sample ID: CV0971M-CS

Date Analyzed: 02/20/13 21:39 Lab File ID: 1CB20027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/21/13 11:48
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:48
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:48

Lab Sample ID: 680-87447-15 Client Sample ID: CV0971N-CS

Date Analyzed: 02/20/13 21:57 Lab File ID: 1CB20028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	02/21/13 11:49
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:49
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:49

Lab Sample ID: LCS 660-134632/2-A Client Sample ID:

Date Analyzed: 02/20/13 22:33 Lab File ID: 1CB20030.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	02/21/13 11:51

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: BSMC5973 Analysis Batch Number: 134694

Lab Sample ID: 680-87447-16 Client Sample ID: CV0971O-CS

Date Analyzed: 02/20/13 22:52 Lab File ID: 1CB20031.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	3.82	Baseline Event	cantins	02/21/13 11:51
Benzo[b]fluoranthene	8.65	Split Peak	cantins	02/21/13 11:52
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:52
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:52
Benzo[g,h,i]perylene	10.59	Baseline Event	cantins	02/21/13 11:52

Lab Sample ID: 680-87447-17 Client Sample ID: CV0971O-CSD

Date Analyzed: 02/20/13 23:10 Lab File ID: 1CB20032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	02/21/13 11:53
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:53
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:54

Lab Sample ID: 680-87447-18 Client Sample ID: CV0971AC-GS

Date Analyzed: 02/20/13 23:28 Lab File ID: 1CB20033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	02/21/13 11:56
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:57
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	02/21/13 11:57

Lab Sample ID: 680-87447-19 Client Sample ID: CV0971AD-GS

Date Analyzed: 02/20/13 23:46 Lab File ID: 1CB20034.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	02/21/13 11:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: BSMC5973 Analysis Batch Number: 134694

Lab Sample ID: 680-87447-20 Client Sample ID: CV0971AE-GS

Date Analyzed: 02/21/13 00:05 Lab File ID: 1CB20035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	02/21/13 11:58
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:58
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 11:59

Lab Sample ID: 680-87447-21 Client Sample ID: CV0971AF-GS

Date Analyzed: 02/21/13 00:23 Lab File ID: 1CB20036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	02/21/13 11:59
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/21/13 11:59
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/21/13 12:00
Benzo[g,h,i]perylene	10.60	Baseline Event	cantins	02/21/13 12:00

Lab Sample ID: 680-87447-A-24-B MS Client Sample ID:

Date Analyzed: 02/21/13 01:36 Lab File ID: 1CB20040.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	02/21/13 12:15

Lab Sample ID: 680-87447-A-24-C MSD Client Sample ID:

Date Analyzed: 02/21/13 01:55 Lab File ID: 1CB20041.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	02/21/13 13:07

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.: 680-87447-1

SDG No.: 68087447-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0971AB-GS	680-87447-1	102
CV0971A-CS	680-87447-2	76
CV0971B-CS	680-87447-3	82
CV0971C-CS	680-87447-4	62
CV0971D-CS	680-87447-5	78
CV0971E-CS	680-87447-6	83
CV0971F-CS	680-87447-7	78
CV0971G-CS	680-87447-8	66
CV0971H-CS	680-87447-9	86
CV0971I-CS	680-87447-10	64
CV0971J-CS	680-87447-11	79
CV0971K-CS	680-87447-12	84
CV0971L-CS	680-87447-13	76
CV0971M-CS	680-87447-14	74
CV0971N-CS	680-87447-15	70
CV0971O-CS	680-87447-16	67
CV0971O-CSD	680-87447-17	78
CV0971AC-GS	680-87447-18	81
CV0971AD-GS	680-87447-19	77
CV0971AE-GS	680-87447-20	62
CV0971AF-GS	680-87447-21	61
	MB 660-134620/1-A	76
	MB 660-134632/1-A	80
	LCS 660-134620/2-A	71
	LCS 660-134632/2-A	64
	680-87447-A-24-B MS	76
CV0971A-CS MS	680-87447-2 MS	82
	680-87447-A-24-C MSD	77
CV0971A-CS MSD	680-87447-2 MSD	90

	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.: 680-87447-1

SDG No.: 68087447-1

Matrix: Solid Level: Low Lab File ID: 1CB20006.D

Lab ID: LCS 660-134620/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	664	480	72	39-130	
Acenaphthylene	664	467	70	38-130	
Anthracene	664	491	74	37-130	
Benzo[a]anthracene	664	479	72	40-130	
Benzo[a]pyrene	664	463	70	49-130	
Benzo[b]fluoranthene	664	474	71	37-130	
Benzo[g,h,i]perylene	664	512	77	32-130	
Benzo[k]fluoranthene	664	477	72	32-130	
Chrysene	664	439	66	41-130	
Dibenz(a,h)anthracene	664	481	72	27-130	
Fluoranthene	664	520	78	40-130	
Fluorene	664	452	68	40-130	
Indeno[1,2,3-cd]pyrene	664	458	69	30-130	
1-Methylnaphthalene	664	510	77	31-130	
2-Methylnaphthalene	664	467	70	33-130	
Naphthalene	664	444	67	36-130	
Phenanthrene	664	429	65	42-130	
Pyrene	664	488	73	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.: 680-87447-1

SDG No.: 68087447-1

Matrix: Solid Level: Low Lab File ID: 1CB20030.D

Lab ID: LCS 660-134632/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	661	383	58	39-130	
Acenaphthylene	661	437	66	38-130	
Anthracene	661	431	65	37-130	
Benzo[a]anthracene	661	451	68	40-130	
Benzo[a]pyrene	661	436	66	49-130	
Benzo[b]fluoranthene	661	450	68	37-130	
Benzo[g,h,i]perylene	661	409	62	32-130	
Benzo[k]fluoranthene	661	429	65	32-130	
Chrysene	661	401	61	41-130	
Dibenz(a,h)anthracene	661	392	59	27-130	
Fluoranthene	661	452	68	40-130	
Fluorene	661	410	62	40-130	
Indeno[1,2,3-cd]pyrene	661	401	61	30-130	
1-Methylnaphthalene	661	435	66	31-130	
2-Methylnaphthalene	661	419	63	33-130	
Naphthalene	661	392	59	36-130	
Phenanthrene	661	378	57	42-130	
Pyrene	661	474	72	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.: 680-87447-1

SDG No.: 68087447-1

Matrix: Solid Level: Low Lab File ID: 1CB20040.D

Lab ID: 680-87447-A-24-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1030	160 U	732	71	39-130	
Acenaphthylene	1030	14 J	776	74	38-130	
Anthracene	1030	41	833	77	37-130	
Benzo[a]anthracene	1030	210	997	76	40-130	
Benzo[a]pyrene	1030	190	955	74	49-130	
Benzo[b]fluoranthene	1030	310	1210	87	37-130	
Benzo[g,h,i]perylene	1030	120	855	71	32-130	
Benzo[k]fluoranthene	1030	100	820	70	32-130	
Chrysene	1030	200	945	72	41-130	
Dibenz(a,h)anthracene	1030	35	765	71	27-130	
Fluoranthene	1030	430	1220	77	40-130	
Fluorene	1030	13 J	732	70	40-130	
Indeno[1,2,3-cd]pyrene	1030	110	784	65	30-130	
1-Methylnaphthalene	1030	34 J	841	78	31-130	
2-Methylnaphthalene	1030	40 J	826	76	33-130	
Naphthalene	1030	48 J	790	72	36-130	
Phenanthrene	1030	200	889	67	42-130	
Pyrene	1030	390	1230	82	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.: 680-87447-1

SDG No.: 68087447-1

Matrix: Solid Level: Low Lab File ID: 1CB20014.D

Lab ID: 680-87447-2 MS Client ID: CV0971A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1200	720 U	971	81	39-130	
Acenaphthylene	1200	38 J	1080	87	38-130	
Anthracene	1200	43 J	977	78	37-130	
Benzo[a]anthracene	1200	280	1160	73	40-130	
Benzo[a]pyrene	1200	290	1100	68	49-130	
Benzo[b]fluoranthene	1200	440	1200	63	37-130	
Benzo[g,h,i]perylene	1200	220	1070	71	32-130	
Benzo[k]fluoranthene	1200	150	1110	80	32-130	
Chrysene	1200	260	1040	65	41-130	
Dibenz(a,h)anthracene	1200	64 J	1030	80	27-130	
Fluoranthene	1200	470	1180	58	40-130	
Fluorene	1200	140 U	1000	83	40-130	
Indeno[1,2,3-cd]pyrene	1200	180	887	59	30-130	
1-Methylnaphthalene	1200	72 J	1120	87	31-130	
2-Methylnaphthalene	1200	90 J	1060	81	33-130	
Naphthalene	1200	74 J	1010	78	36-130	
Phenanthrene	1200	270	979	59	42-130	
Pyrene	1200	450	1290	69	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.: 680-87447-1

SDG No.: 68087447-1

Matrix: Solid Level: Low Lab File ID: 1CB20041.D

Lab ID: 680-87447-A-24-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1030	731	71	0	40	39-130	
Acenaphthylene	1030	835	80	7	40	38-130	
Anthracene	1030	827	76	1	40	37-130	
Benzo[a]anthracene	1030	1060	82	6	40	40-130	
Benzo[a]pyrene	1030	1060	85	10	40	49-130	
Benzo[b]fluoranthene	1030	1180	84	3	40	37-130	
Benzo[g,h,i]perylene	1030	917	77	7	40	32-130	
Benzo[k]fluoranthene	1030	1080	95	27	40	32-130	
Chrysene	1030	1000	77	6	40	41-130	
Dibenz(a,h)anthracene	1030	773	72	1	40	27-130	
Fluoranthene	1030	1280	83	5	40	40-130	
Fluorene	1030	758	73	3	40	40-130	
Indeno[1,2,3-cd]pyrene	1030	913	78	15	40	30-130	
1-Methylnaphthalene	1030	908	85	8	40	31-130	
2-Methylnaphthalene	1030	851	79	3	40	33-130	
Naphthalene	1030	800	73	1	40	36-130	
Phenanthrene	1030	919	70	3	40	42-130	
Pyrene	1030	1350	94	9	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Matrix: Solid Level: Low Lab File ID: 1CB20015.D

Lab ID: 680-87447-2 MSD Client ID: CV0971A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1200	991	82	2	40	39-130	
Acenaphthylene	1200	1050	85	2	40	38-130	
Anthracene	1200	1130	91	15	40	37-130	
Benzo[a]anthracene	1200	1280	83	9	40	40-130	
Benzo[a]pyrene	1200	1190	75	8	40	49-130	
Benzo[b]fluoranthene	1200	1330	75	11	40	37-130	
Benzo[g,h,i]perylene	1200	1180	80	10	40	32-130	
Benzo[k]fluoranthene	1200	1140	83	3	40	32-130	
Chrysene	1200	1220	79	15	40	41-130	
Dibenz(a,h)anthracene	1200	1070	84	4	40	27-130	
Fluoranthene	1200	1470	83	22	40	40-130	
Fluorene	1200	976	81	2	40	40-130	
Indeno[1,2,3-cd]pyrene	1200	1080	76	20	40	30-130	
1-Methylnaphthalene	1200	1130	88	1	40	31-130	
2-Methylnaphthalene	1200	1130	87	6	40	33-130	
Naphthalene	1200	1130	88	11	40	36-130	
Phenanthrene	1200	1220	79	22	40	42-130	
Pyrene	1200	1550	92	19	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.: 680-87447-1

SDG No.: 68087447-1

Lab File ID: 1CB20005.D Lab Sample ID: MB 660-134620/1-A

Matrix: Solid Date Extracted: 02/19/2013 11:06

Instrument ID: BSMC5973 Date Analyzed: 02/20/2013 14:57

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134620/2-A	1CB20006.D	02/20/2013 15:15
CV0971AB-GS	680-87447-1	1CB20012.D	02/20/2013 17:05
CV0971A-CS	680-87447-2	1CB20013.D	02/20/2013 17:23
CV0971A-CS MS	680-87447-2 MS	1CB20014.D	02/20/2013 17:41
CV0971A-CS MSD	680-87447-2 MSD	1CB20015.D	02/20/2013 17:59
CV0971B-CS	680-87447-3	1CB20016.D	02/20/2013 18:18
CV0971C-CS	680-87447-4	1CB20017.D	02/20/2013 18:36
CV0971D-CS	680-87447-5	1CB20018.D	02/20/2013 18:54
CV0971E-CS	680-87447-6	1CB20019.D	02/20/2013 19:12
CV0971F-CS	680-87447-7	1CB20020.D	02/20/2013 19:31
CV0971G-CS	680-87447-8	1CB20021.D	02/20/2013 19:49
CV0971H-CS	680-87447-9	1CB20022.D	02/20/2013 20:07
CV0971I-CS	680-87447-10	1CB20023.D	02/20/2013 20:25
CV0971J-CS	680-87447-11	1CB20024.D	02/20/2013 20:44
CV0971K-CS	680-87447-12	1CB20025.D	02/20/2013 21:02
CV0971L-CS	680-87447-13	1CB20026.D	02/20/2013 21:20
CV0971M-CS	680-87447-14	1CB20027.D	02/20/2013 21:39
CV0971N-CS	680-87447-15	1CB20028.D	02/20/2013 21:57

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Lab File ID: 1CB20029.D Lab Sample ID: MB 660-134632/1-A

Matrix: Solid Date Extracted: 02/19/2013 14:49

Instrument ID: BSMC5973 Date Analyzed: 02/20/2013 22:15

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134632/2-A	1CB20030.D	02/20/2013 22:33
CV0971O-CS	680-87447-16	1CB20031.D	02/20/2013 22:52
CV0971O-CSD	680-87447-17	1CB20032.D	02/20/2013 23:10
CV0971AC-GS	680-87447-18	1CB20033.D	02/20/2013 23:28
CV0971AD-GS	680-87447-19	1CB20034.D	02/20/2013 23:46
CV0971AE-GS	680-87447-20	1CB20035.D	02/21/2013 00:05
CV0971AF-GS	680-87447-21	1CB20036.D	02/21/2013 00:23
	680-87447-A-24-B MS	1CB20040.D	02/21/2013 01:36
	680-87447-A-24-C MSD	1CB20041.D	02/21/2013 01:55

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

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

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

Instrument ID: BSMC5973 DFTPP Injection Time: 11:23

Analysis Batch No.: 133227

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	32.5	
68	Less than 2.0 % of mass 69	0.4	(1.1)1
69	Mass 69 relative abundance	39.9	
70	Less than 2.0 % of mass 69	0.4	(1.0)1
127	10.0 - 80.0 % of mass 198	46.8	
197	Less than 2.0 % of mass 198	1.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.2	
275	10.0 - 60.0 % of mass 198	23.0	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	13.3	
442	Greater than 50.0 % of mass 198	90.1	
443	15.0 - 24.0 % of mass 442	17.2	(19.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-133227/3	1CA07013.D	01/07/2013	15:23
	IC 660-133227/4	1CA07014.D	01/07/2013	15:41
	IC 660-133227/5	1CA07015.D	01/07/2013	15:59
	IC 660-133227/6	1CA07016.D	01/07/2013	16:18
	ICIS 660-133227/7	1CA07017.D	01/07/2013	16:36
	IC 660-133227/8	1CA07018.D	01/07/2013	16:54
	IC 660-133227/9	1CA07019.D	01/07/2013	17:13
	ICV 660-133227/10	1CA07020.D	01/07/2013	17:31

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

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Lab File ID: 1CB20002.D DFTPP Injection Date: 02/20/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 13:59

Analysis Batch No.: 134694

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	36.5
68	Less than 2.0 % of mass 69	0.6 (1.3)1
69	Mass 69 relative abundance	49.5
70	Less than 2.0 % of mass 69	0.3 (0.5)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	6.8
275	10.0 - 60.0 % of mass 198	19.9
365	Greater than 1.0 % of mass 198	2.5
441	Present but less than mass 443	9.8
442	Greater than 50.0 % of mass 198	62.0
443	15.0 - 24.0 % of mass 442	12.1 (19.5)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 660-134694/3	1CB20003.D	02/20/2013	14:21
	MB 660-134620/1-A	1CB20005.D	02/20/2013	14:57
	LCS 660-134620/2-A	1CB20006.D	02/20/2013	15:15
CV0971AB-GS	680-87447-1	1CB20012.D	02/20/2013	17:05
CV0971A-CS	680-87447-2	1CB20013.D	02/20/2013	17:23
CV0971A-CS MS	680-87447-2 MS	1CB20014.D	02/20/2013	17:41
CV0971A-CS MSD	680-87447-2 MSD	1CB20015.D	02/20/2013	17:59
CV0971B-CS	680-87447-3	1CB20016.D	02/20/2013	18:18
CV0971C-CS	680-87447-4	1CB20017.D	02/20/2013	18:36
CV0971D-CS	680-87447-5	1CB20018.D	02/20/2013	18:54
CV0971E-CS	680-87447-6	1CB20019.D	02/20/2013	19:12
CV0971F-CS	680-87447-7	1CB20020.D	02/20/2013	19:31
CV0971G-CS	680-87447-8	1CB20021.D	02/20/2013	19:49
CV0971H-CS	680-87447-9	1CB20022.D	02/20/2013	20:07
CV0971I-CS	680-87447-10	1CB20023.D	02/20/2013	20:25
CV0971J-CS	680-87447-11	1CB20024.D	02/20/2013	20:44
CV0971K-CS	680-87447-12	1CB20025.D	02/20/2013	21:02
CV0971L-CS	680-87447-13	1CB20026.D	02/20/2013	21:20
CV0971M-CS	680-87447-14	1CB20027.D	02/20/2013	21:39
CV0971N-CS	680-87447-15	1CB20028.D	02/20/2013	21:57
	MB 660-134632/1-A	1CB20029.D	02/20/2013	22:15
	LCS 660-134632/2-A	1CB20030.D	02/20/2013	22:33
CV0971O-CS	680-87447-16	1CB20031.D	02/20/2013	22:52

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

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Lab File ID: 1CB20002.D DFTPP Injection Date: 02/20/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 13:59

Analysis Batch No.: 134694

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	36.5	
68	Less than 2.0 % of mass 69	0.6	(1.3)1
69	Mass 69 relative abundance	49.5	
70	Less than 2.0 % of mass 69	0.3	(0.5)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	6.8	
275	10.0 - 60.0 % of mass 198	19.9	
365	Greater than 1.0 % of mass 198	2.5	
441	Present but less than mass 443	9.8	
442	Greater than 50.0 % of mass 198	62.0	
443	15.0 - 24.0 % of mass 442	12.1	(19.5)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
CV0971O-CSD	680-87447-17	1CB20032.D	02/20/2013	23:10
CV0971AC-GS	680-87447-18	1CB20033.D	02/20/2013	23:28
CV0971AD-GS	680-87447-19	1CB20034.D	02/20/2013	23:46
CV0971AE-GS	680-87447-20	1CB20035.D	02/21/2013	00:05
CV0971AF-GS	680-87447-21	1CB20036.D	02/21/2013	00:23
	680-87447-A-24-B MS	1CB20040.D	02/21/2013	01:36
	680-87447-A-24-C MSD	1CB20041.D	02/21/2013	01:55

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

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

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

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

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

Calibration ID: 2667

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

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

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

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

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

Calibration ID: 2667

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

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Sample No.: CCVIS 660-134694/3 Date Analyzed: 02/20/2013 14:21

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

Lab File ID (Standard): 1CB20003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2210837	3.81	1683867	4.90	3183301	5.85
UPPER LIMIT		4421674	4.31	3367734	5.40	6366602	6.35
LOWER LIMIT		1105419	3.31	841934	4.40	1591651	5.35
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134620/1-A		1782536	3.81	1348359	4.90	2514028	5.85
LCS 660-134620/2-A		1722896	3.81	1345288	4.90	2516616	5.85
680-87447-1	CV0971AB-GS	2245156	3.81	1706400	4.90	3051205	5.85
680-87447-2	CV0971A-CS	2057989	3.81	1565513	4.90	2905214	5.85
680-87447-2 MS	CV0971A-CS MS	1994943	3.81	1529771	4.90	2810401	5.85
680-87447-2 MSD	CV0971A-CS MSD	1886451	3.81	1507646	4.90	2749034	5.85
680-87447-3	CV0971B-CS	2087231	3.81	1599000	4.90	2957803	5.85
680-87447-4	CV0971C-CS	2119085	3.81	1631626	4.90	2998763	5.85
680-87447-5	CV0971D-CS	2023177	3.81	1577249	4.90	2890147	5.85
680-87447-6	CV0971E-CS	2061248	3.81	1601083	4.90	2943614	5.85
680-87447-7	CV0971F-CS	2037860	3.81	1530345	4.90	2768620	5.85
680-87447-8	CV0971G-CS	2263733	3.81	1732437	4.90	3111772	5.85
680-87447-9	CV0971H-CS	2042447	3.81	1566386	4.90	2888156	5.85
680-87447-10	CV0971I-CS	2309216	3.81	1801947	4.90	3326519	5.85
680-87447-11	CV0971J-CS	2098242	3.81	1624138	4.90	2970693	5.85
680-87447-12	CV0971K-CS	2080323	3.81	1677258	4.90	3123969	5.85
680-87447-13	CV0971L-CS	2240121	3.81	1743929	4.90	3134782	5.85
680-87447-14	CV0971M-CS	2167045	3.81	1692486	4.90	3046197	5.85
680-87447-15	CV0971N-CS	2178676	3.81	1679527	4.90	3081337	5.85
MB 660-134632/1-A		1981200	3.81	1574367	4.90	2883189	5.85
LCS 660-134632/2-A		2237861	3.81	1761317	4.90	3296958	5.85
680-87447-16	CV0971O-CS	2068315	3.81	1607399	4.90	2953192	5.85
680-87447-17	CV0971O-CSD	2100706	3.81	1605807	4.90	2951641	5.85
680-87447-18	CV0971AC-GS	2192627	3.81	1680509	4.90	3093508	5.85
680-87447-19	CV0971AD-GS	2165961	3.81	1671405	4.90	3098584	5.85
680-87447-20	CV0971AE-GS	2315598	3.81	1850400	4.90	3172321	5.85
680-87447-21	CV0971AF-GS	2357253	3.81	1802761	4.90	3292391	5.85
680-87447-A-24-B MS		2297754	3.81	1777251	4.90	3210586	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.: 680-87447-1

SDG No.: 68087447-1

Sample No.: CCVIS 660-134694/3 Date Analyzed: 02/20/2013 14:21

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

Lab File ID (Standard): 1CB20003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2210837	3.81	1683867	4.90	3183301	5.85
UPPER LIMIT		4421674	4.31	3367734	5.40	6366602	6.35
LOWER LIMIT		1105419	3.31	841934	4.40	1591651	5.35
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87447-A-24-C MSD		2436718	3.81	1863559	4.90	3385204	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.: 680-87447-1

SDG No.: 68087447-1

Sample No.: CCVIS 660-134694/3 Date Analyzed: 02/20/2013 14:21

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

Lab File ID (Standard): 1CB20003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3924691	7.80	3965022	9.03		
UPPER LIMIT		7849382	8.30	7930044	9.53		
LOWER LIMIT		1962346	7.30	1982511	8.53		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134620/1-A		3123278	7.80	3302757	9.02		
LCS 660-134620/2-A		3090200	7.80	3235584	9.02		
680-87447-1	CV0971AB-GS	3187254	7.80	2994869	9.02		
680-87447-2	CV0971A-CS	2995163	7.80	2829150	9.02		
680-87447-2 MS	CV0971A-CS MS	2952562	7.80	2831377	9.02		
680-87447-2 MSD	CV0971A-CS MSD	2949677	7.80	2825525	9.02		
680-87447-3	CV0971B-CS	3180301	7.80	2900188	9.02		
680-87447-4	CV0971C-CS	3175745	7.80	2969555	9.02		
680-87447-5	CV0971D-CS	3081418	7.80	2857267	9.02		
680-87447-6	CV0971E-CS	3259199	7.80	3018413	9.02		
680-87447-7	CV0971F-CS	2979627	7.80	2764037	9.02		
680-87447-8	CV0971G-CS	3236145	7.80	3027580	9.02		
680-87447-9	CV0971H-CS	2999748	7.80	2866658	9.02		
680-87447-10	CV0971I-CS	3466983	7.80	3139981	9.02		
680-87447-11	CV0971J-CS	3223771	7.80	2915442	9.02		
680-87447-12	CV0971K-CS	3286759	7.80	3071604	9.02		
680-87447-13	CV0971L-CS	3393661	7.80	3160897	9.02		
680-87447-14	CV0971M-CS	3253346	7.80	3040235	9.02		
680-87447-15	CV0971N-CS	3231832	7.80	3015848	9.02		
MB 660-134632/1-A		3200876	7.80	2983349	9.02		
LCS 660-134632/2-A		3554905	7.80	3312150	9.02		
680-87447-16	CV0971O-CS	3205292	7.80	2988372	9.02		
680-87447-17	CV0971O-CSD	3191368	7.80	3015061	9.02		
680-87447-18	CV0971AC-GS	3268462	7.80	2990467	9.02		
680-87447-19	CV0971AD-GS	3334576	7.80	3108055	9.02		
680-87447-20	CV0971AE-GS	3403007	7.80	3172280	9.02		
680-87447-21	CV0971AF-GS	3447147	7.80	3271701	9.02		
680-87447-A-24-B MS		3343221	7.80	3179855	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.: 680-87447-1

SDG No.: 68087447-1

Sample No.: CCVIS 660-134694/3 Date Analyzed: 02/20/2013 14:21

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

Lab File ID (Standard): 1CB20003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3924691	7.80	3965022	9.03		
UPPER LIMIT		7849382	8.30	7930044	9.53		
LOWER LIMIT		1962346	7.30	1982511	8.53		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87447-A-24-C MSD		3497154	7.80	3316945	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 I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971AB-GS | Lab Sample ID: 680-87447-1

Matrix: Solid | Lab File ID: 1CB20012.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 09:31

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.40(g) | Date Analyzed: 02/20/2013 17:05

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

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

% Moisture: 22.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	33	J	200	25
120-12-7	Anthracene	210		42	21
56-55-3	Benzo[a]anthracene	830		40	20
50-32-8	Benzo[a]pyrene	730		52	26
205-99-2	Benzo[b]fluoranthene	1100		61	31
191-24-2	Benzo[g,h,i]perylene	470		100	22
207-08-9	Benzo[k]fluoranthene	460		40	18
218-01-9	Chrysene	770		45	23
53-70-3	Dibenz(a,h)anthracene	130		100	21
206-44-0	Fluoranthene	1900		100	20
86-73-7	Fluorene	41	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	420		100	36
90-12-0	1-Methylnaphthalene	53	J	200	22
91-57-6	2-Methylnaphthalene	70	J	200	36
91-20-3	Naphthalene	74	J	200	22
85-01-8	Phenanthrene	740		40	20
129-00-0	Pyrene	1700		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20012.D
Lab Smp Id: 680-87447-A-1-A Client Smp ID: CV0971AB-GS
Inj Date : 20-FEB-2013 17:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-1-a
Misc Info : 680-87447-A-1-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 12
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	15.400	Weight Extracted
M	22.275	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2245156	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1706400	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3051205	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	114441	2.55979	855.4266
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3187254	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2994869	40.0000	
2 Naphthalene	128	3.827	3.822	(1.005)	13209	0.22202	74.1953(Q)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	8071	0.20864	69.7222
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	5553	0.15783	52.7442
5 Acenaphthylene	152	4.810	4.810	(0.982)	6646	0.09790	32.7149
9 Fluorene	166	5.239	5.239	(1.070)	6786	0.12416	41.4911
11 Phenanthrene	178	5.868	5.869	(1.003)	202281	2.22100	742.2104
12 Anthracene	178	5.898	5.904	(1.008)	50482	0.61521	205.5885
13 Carbazole	167	6.010	6.010	(1.027)	20952	0.29395	98.2330

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.710	6.710	(1.147)	502632	5.64791	1887.4082
16 Pyrene	202	6.874	6.880	(0.882)	419478	4.94362	1652.0474
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	219220	2.49417	833.4970
19 Chrysene	228	7.815	7.827	(1.002)	209004	2.30209	769.3085
20 Benzo(b)fluoranthene	252	8.656	8.662	(0.960)	232237	3.16294	1056.9848(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	112182	1.38686	463.4570(M)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	152376	2.18093	728.8187
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	84634	1.26120	421.4636(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.262	(1.137)	24174	0.38200	127.6567(M)
26 Benzo(g,h,i)perylene	276	10.597	10.615	(1.175)	95618	1.40271	468.7556(M)

QC Flag Legend

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

Data File: 1CB20012.D

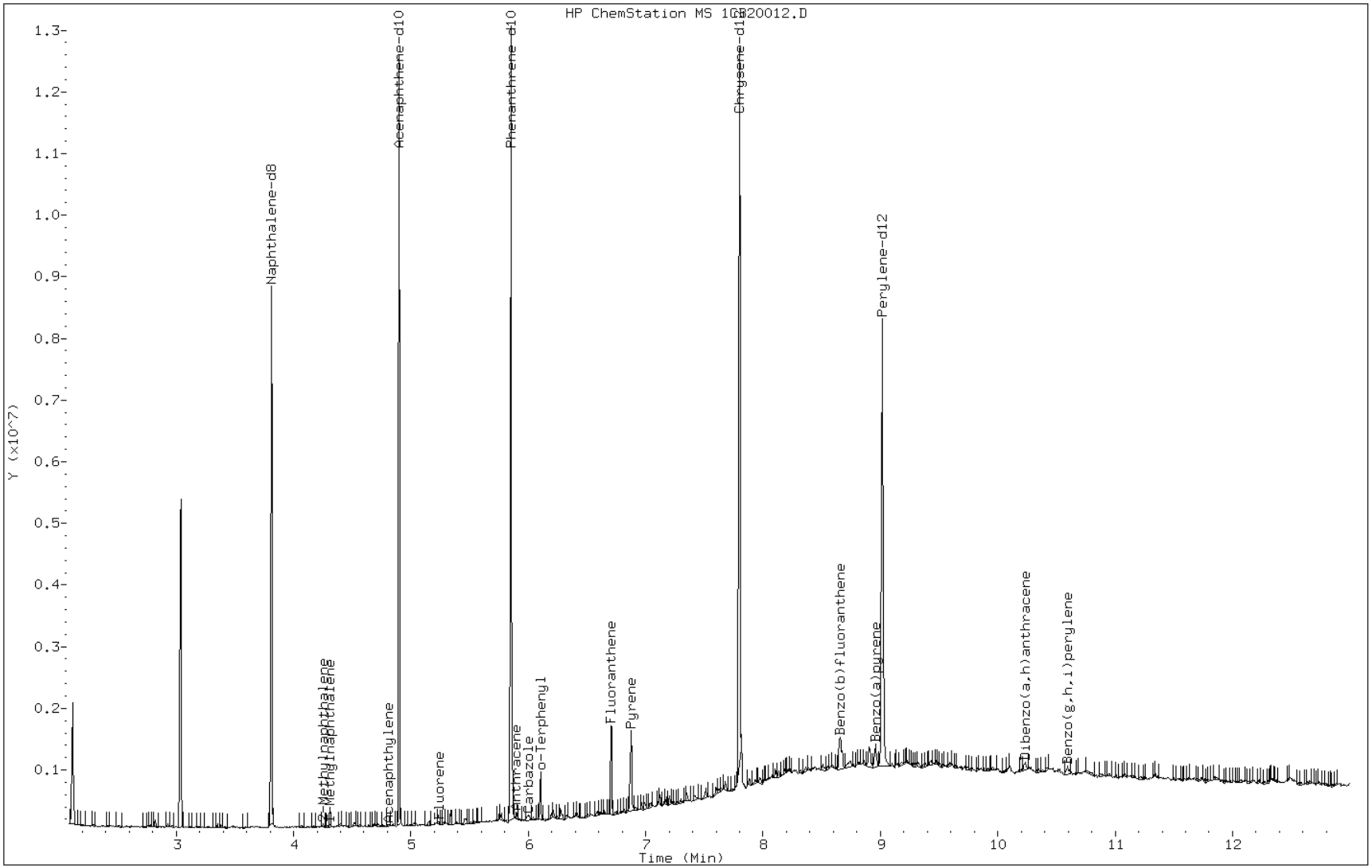
Date: 20-FEB-2013 17:05

Client ID: CV0971AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a

Operator: SCC



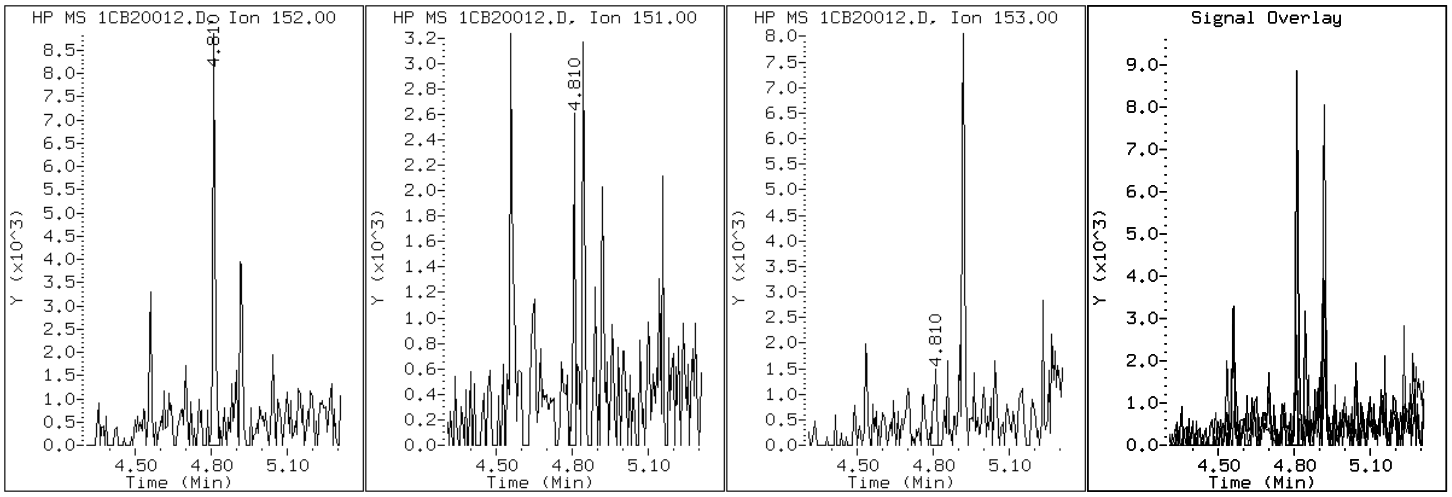
Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

Client ID: CV0971AB-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a Operator: SCC

5 Acenaphthylene



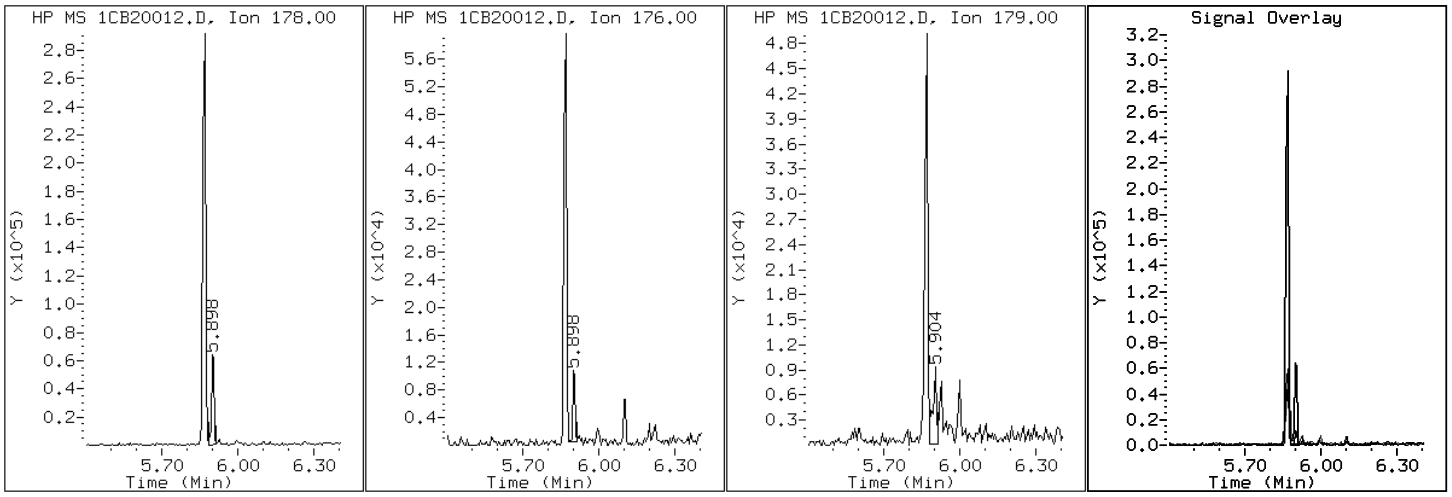
Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

Client ID: CV0971AB-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a Operator: SCC

12 Anthracene



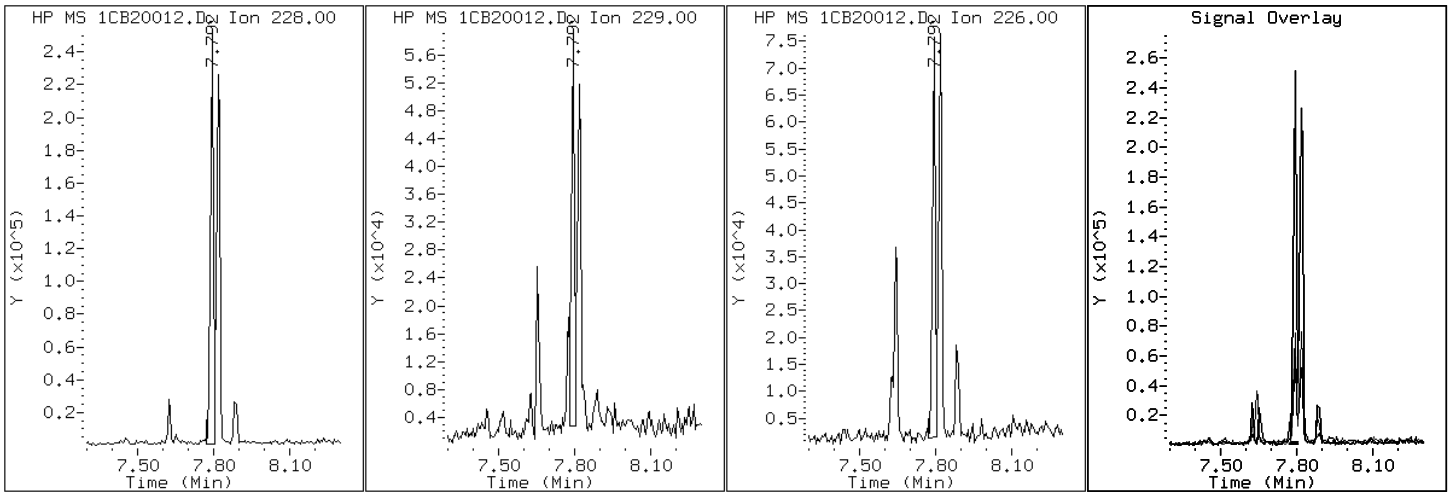
Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

Client ID: CV0971AB-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a Operator: SCC

17 Benzo(a)anthracene



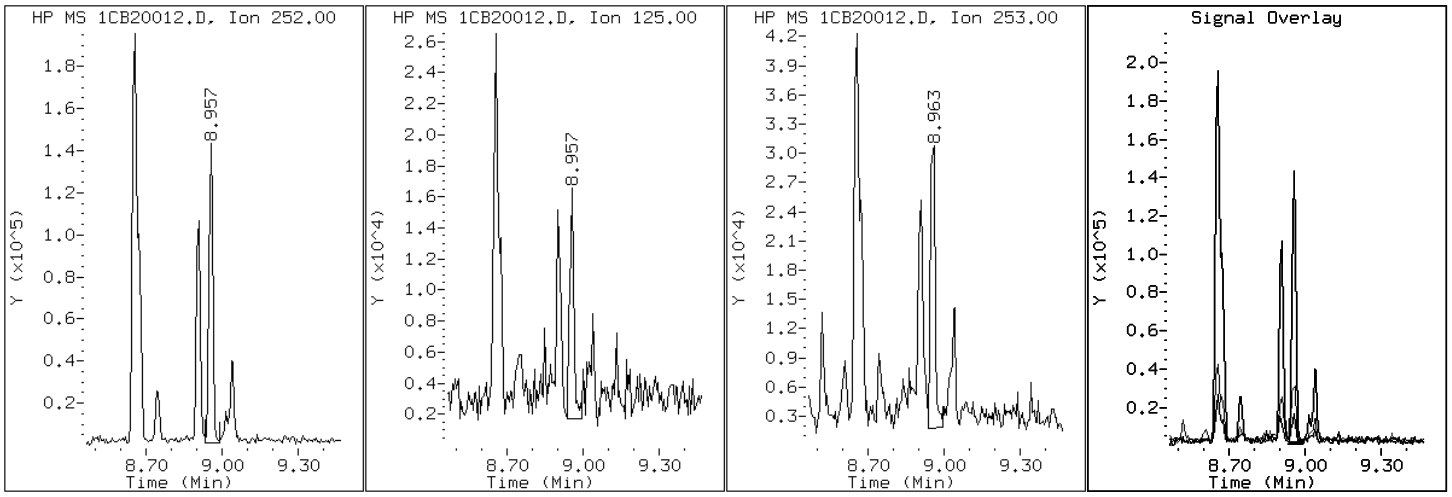
Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

Client ID: CV0971AB-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

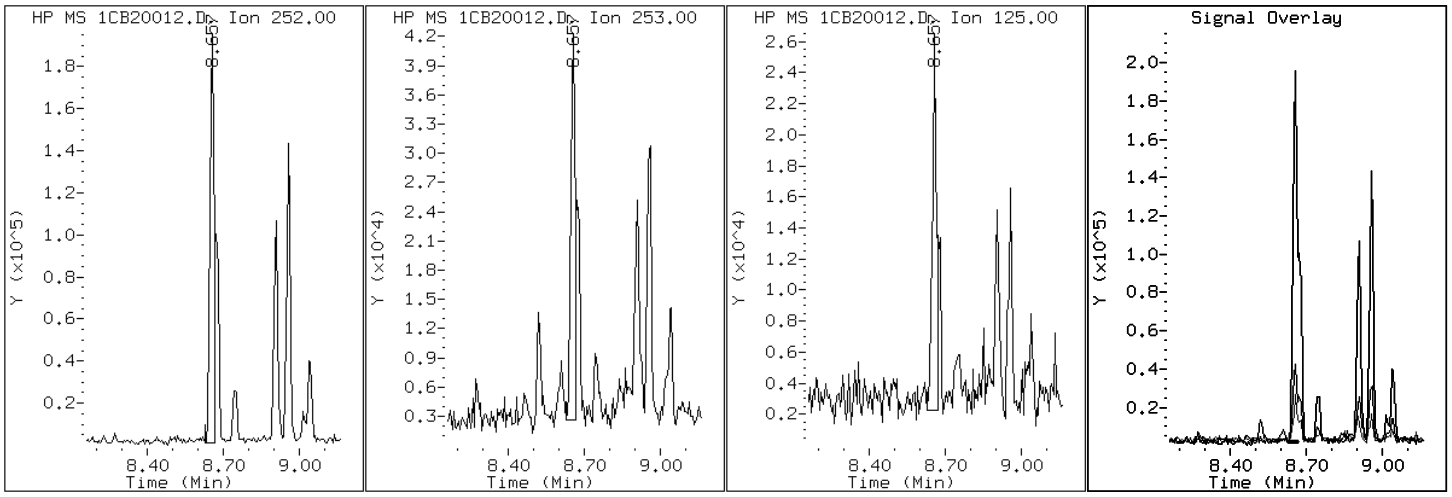
Client ID: CV0971AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

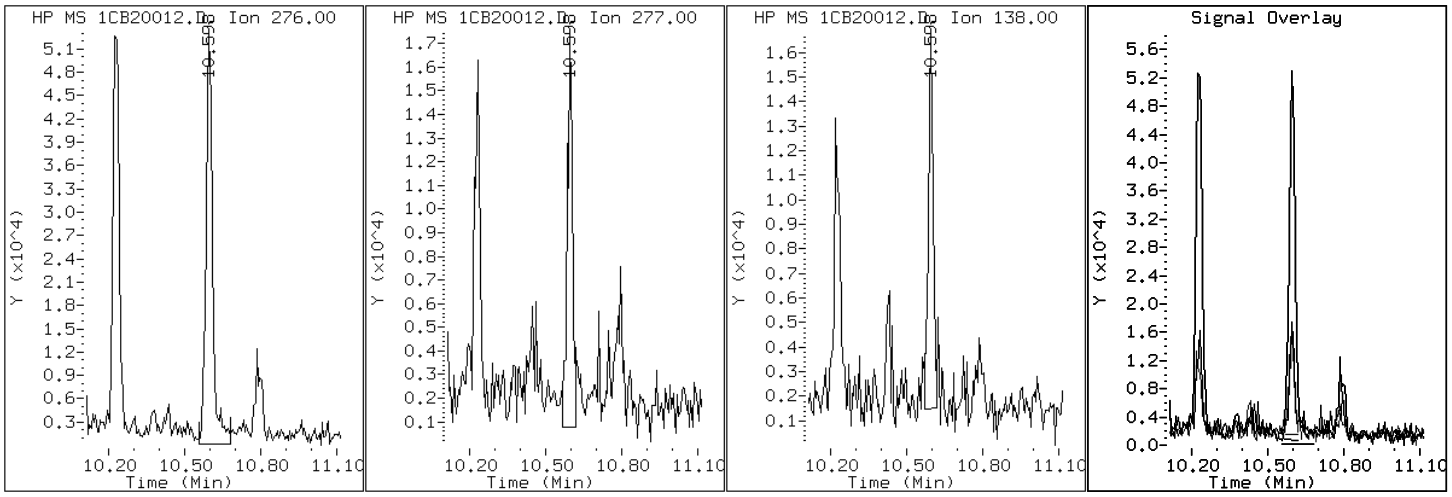
Client ID: CV0971AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



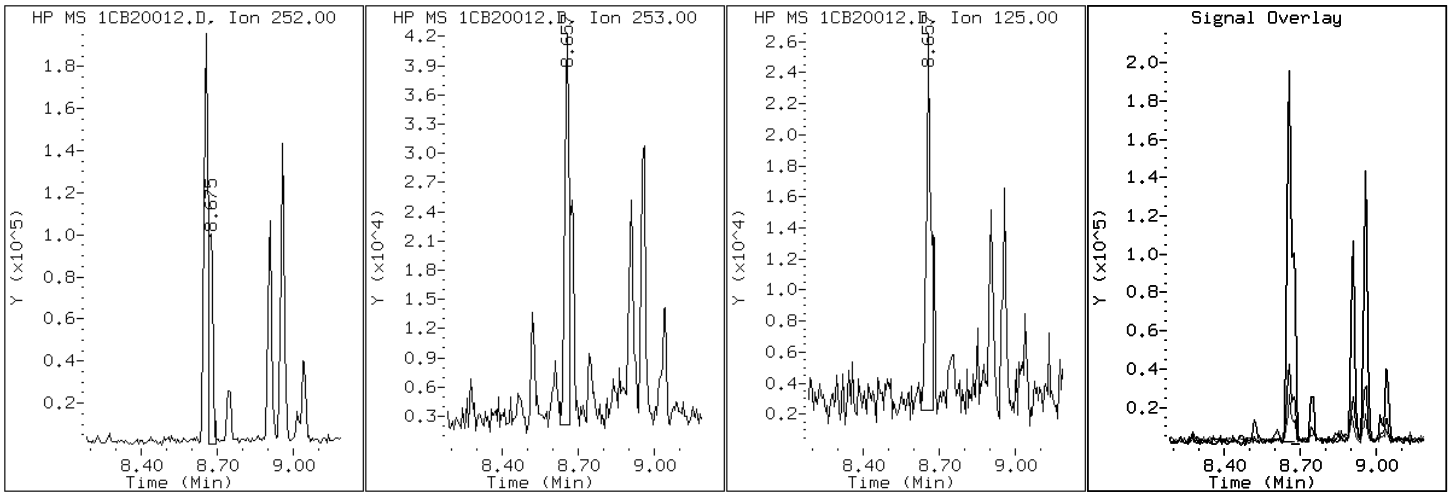
Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

Client ID: CV0971AB-GS | Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a | Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

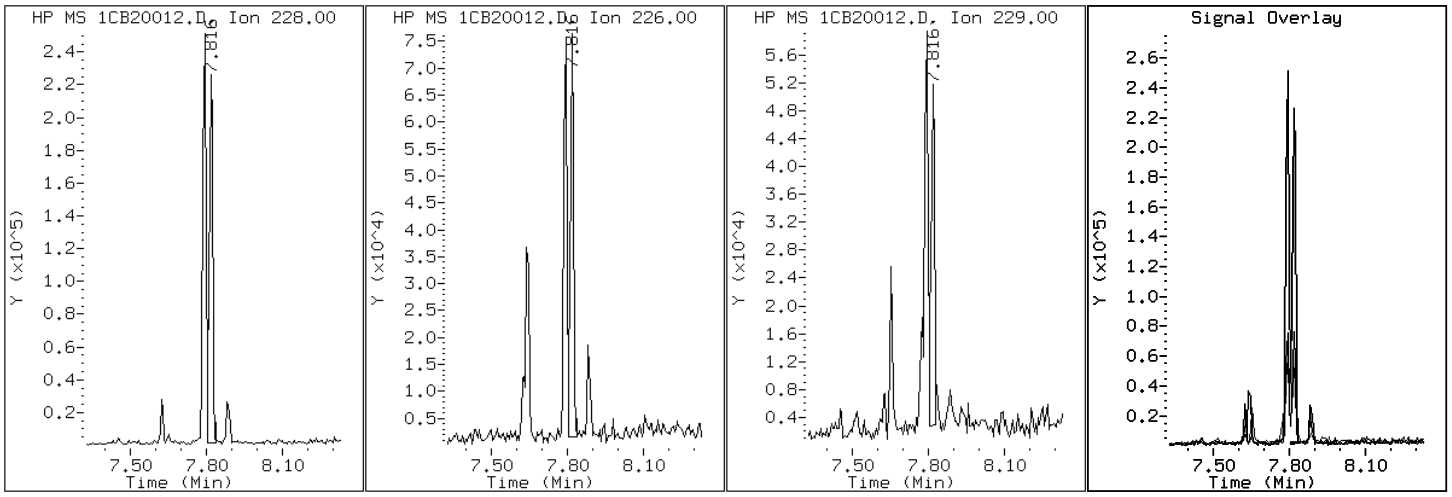
Client ID: CV0971AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a

Operator: SCC

19 Chrysene



Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

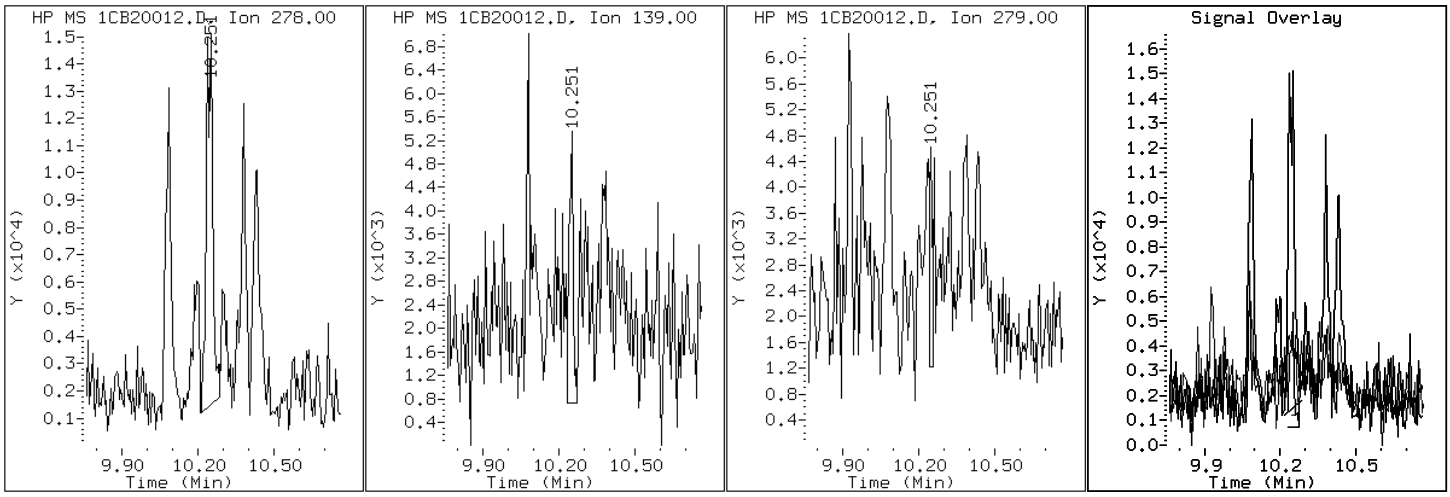
Client ID: CV0971AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a

Operator: SCC

25 Dibenzo(a,h)anthracene



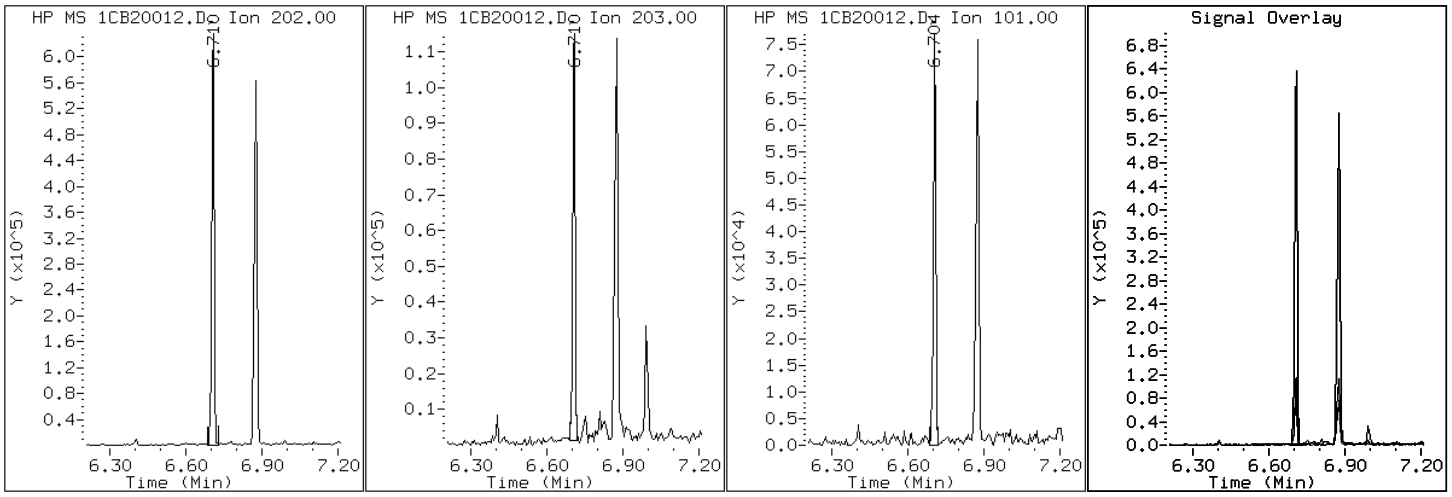
Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

Client ID: CV0971AB-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a Operator: SCC

15 Fluoranthene



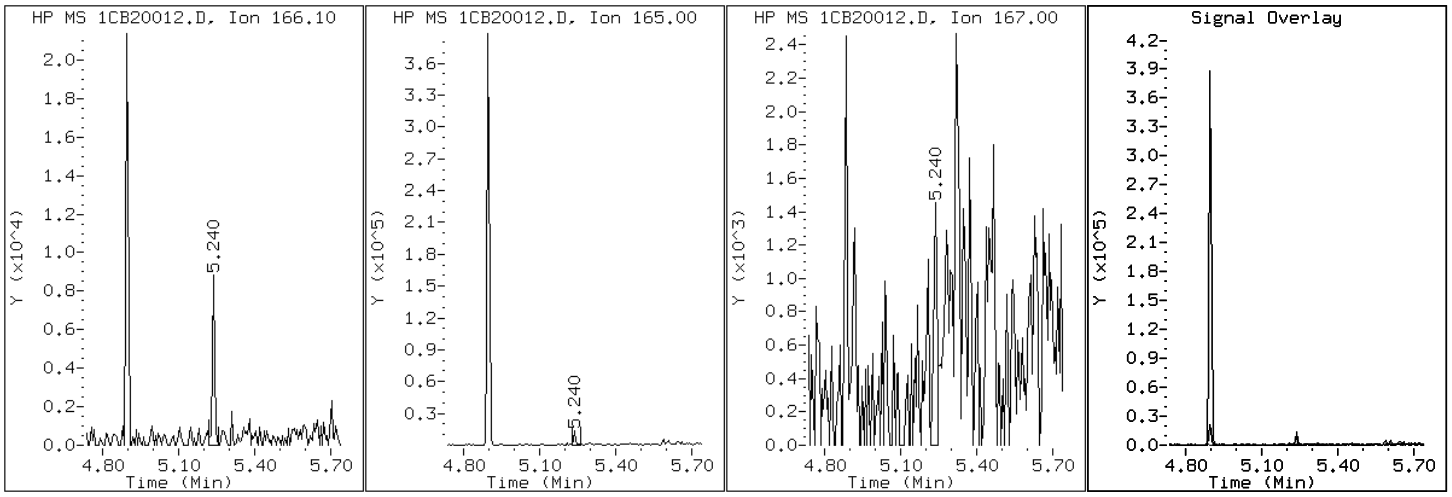
Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

Client ID: CV0971AB-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a Operator: SCC

9 Fluorene



Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

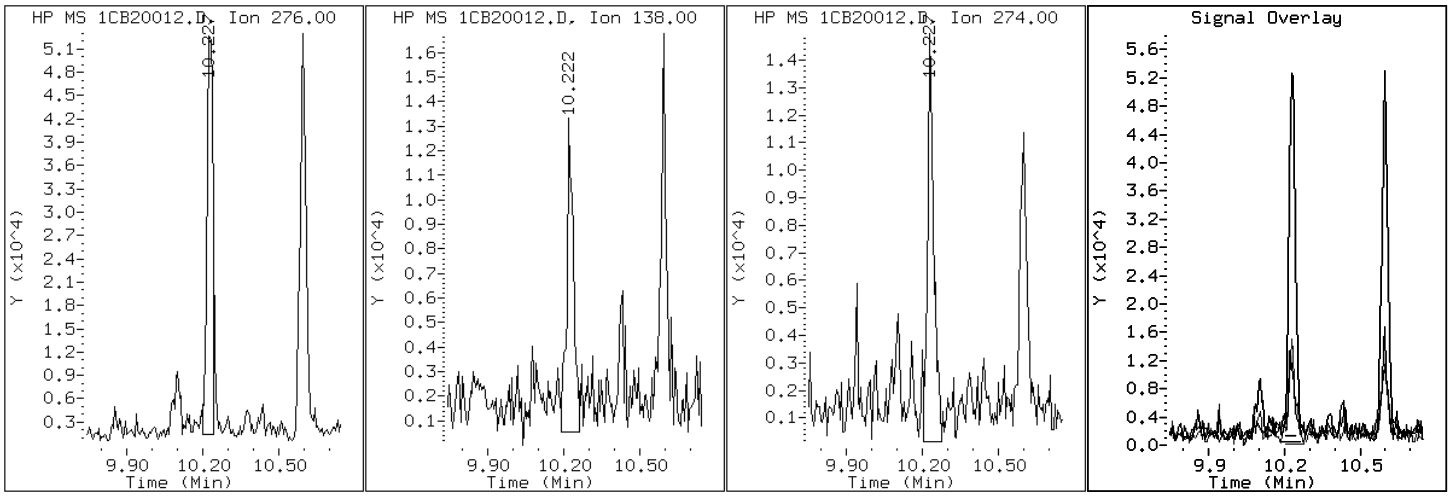
Client ID: CV0971AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a

Operator: SCC

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



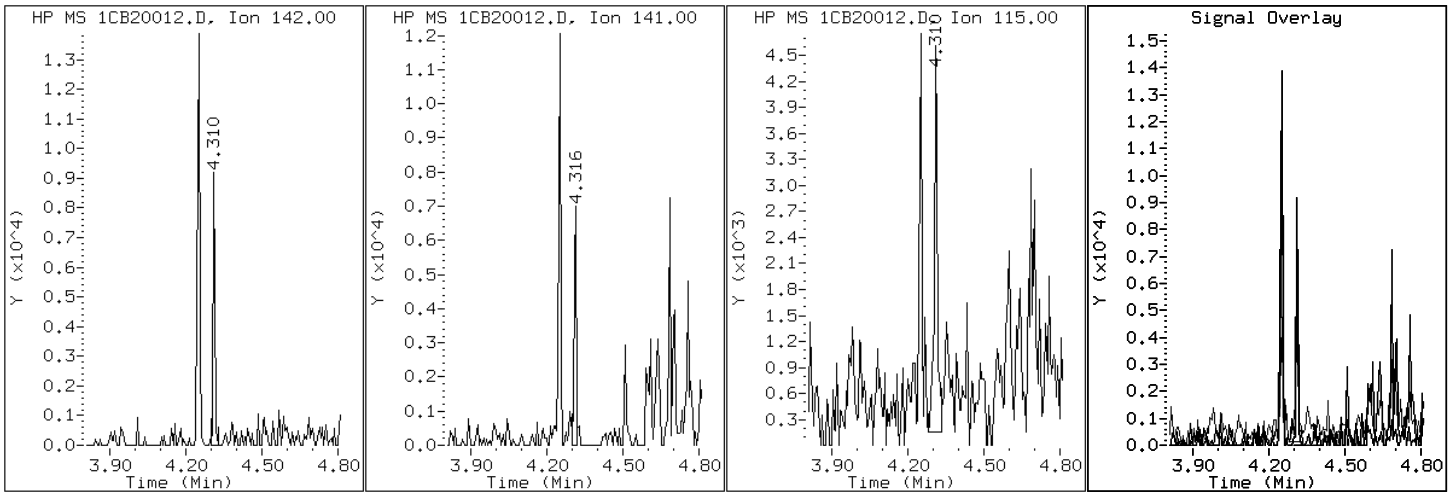
Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

Client ID: CV0971AB-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a Operator: SCC

4 1-Methylnaphthalene



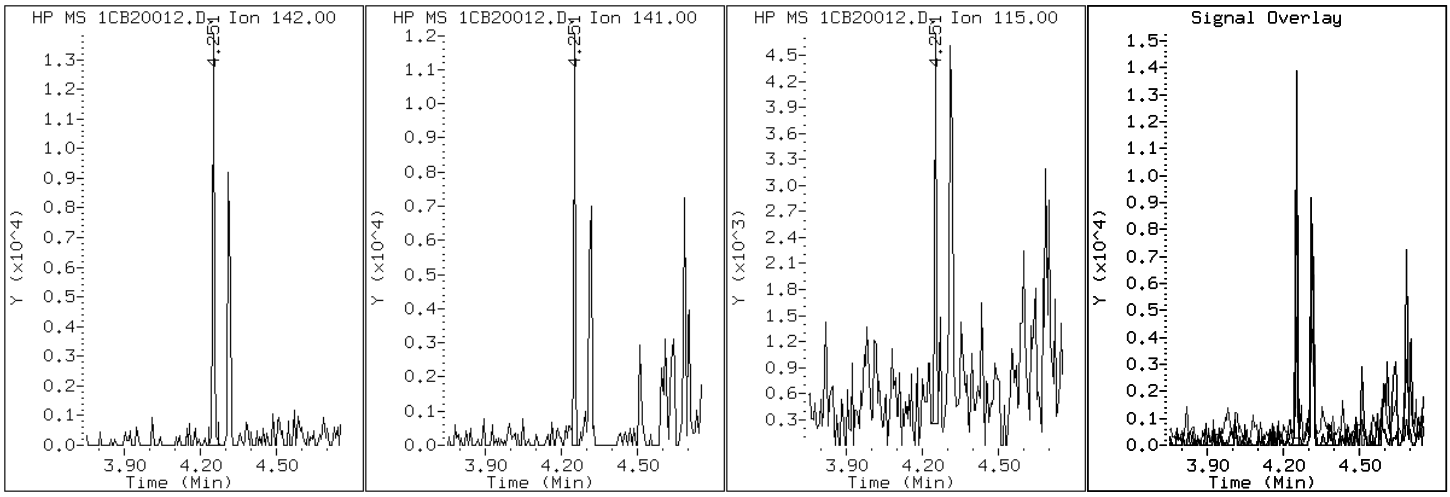
Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

Client ID: CV0971AB-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

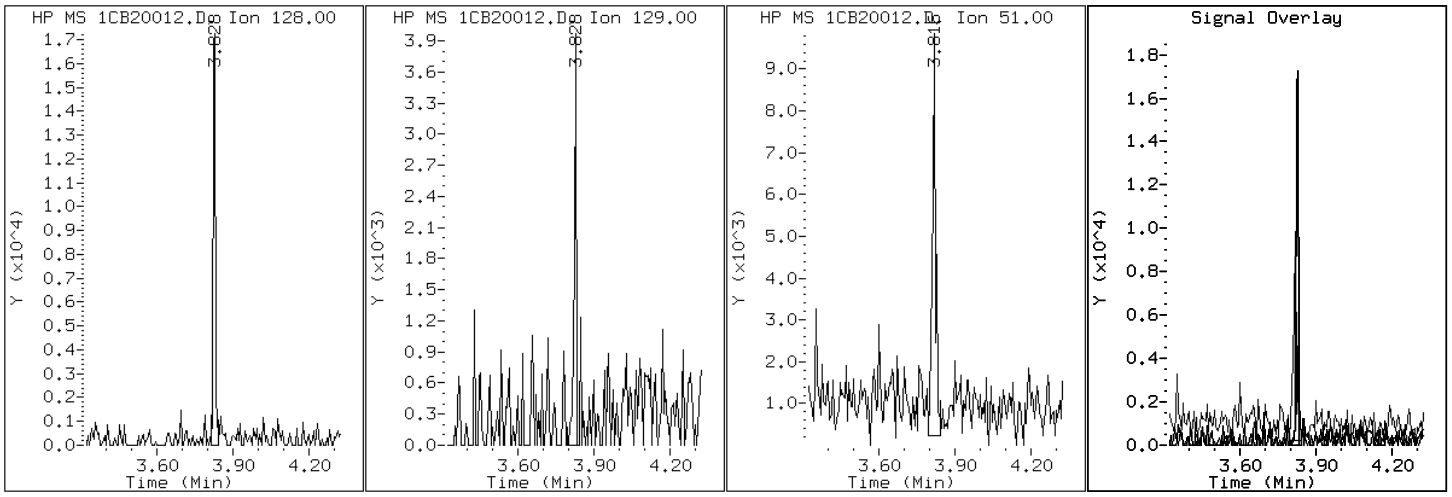
Client ID: CV0971AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a

Operator: SCC

2 Naphthalene



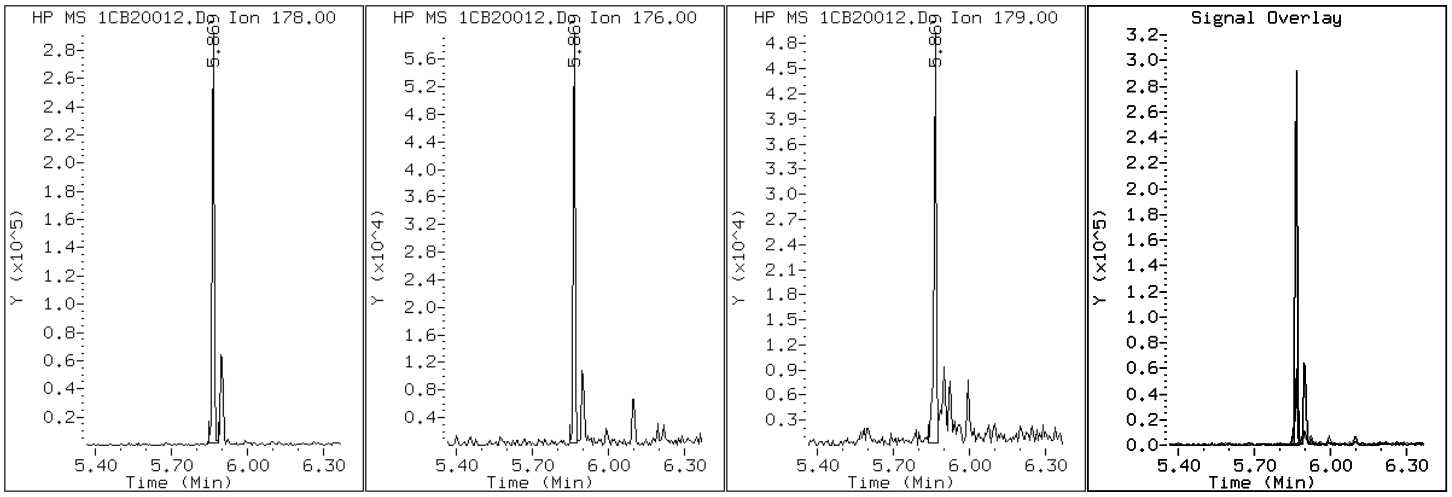
Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

Client ID: CV0971AB-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a Operator: SCC

11 Phenanthrene



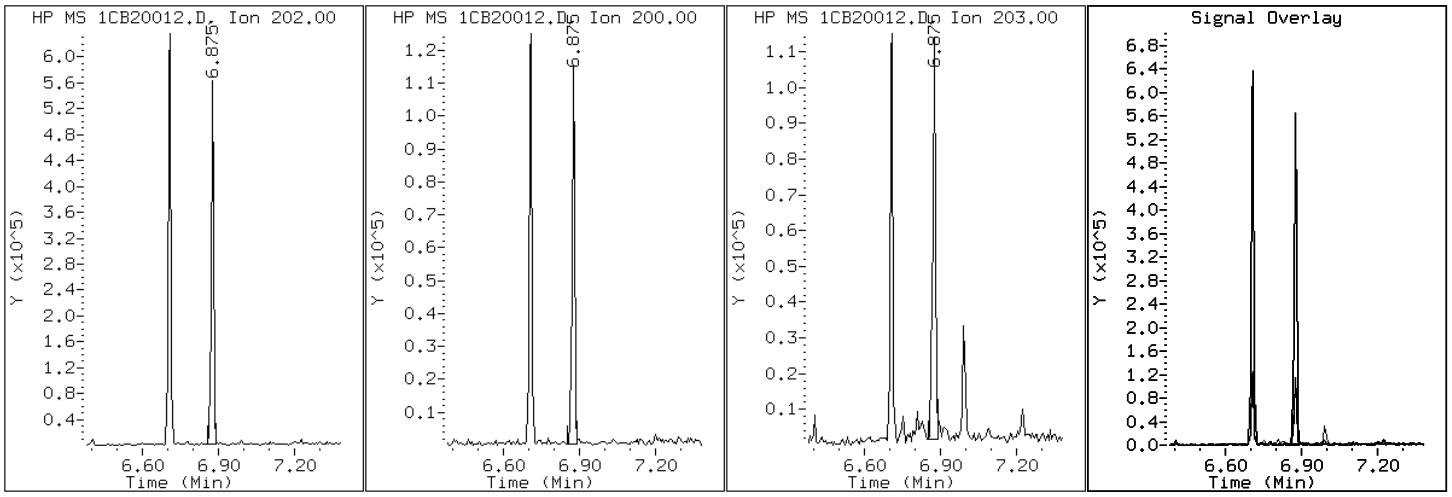
Data File: 1CB20012.D

Date: 20-FEB-2013 17:05

Client ID: CV0971AB-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-1-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20012.D
Inj. Date and Time: 20-FEB-2013 17:05
Instrument ID: BSMC5973.i
Client ID: CV0971AB-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

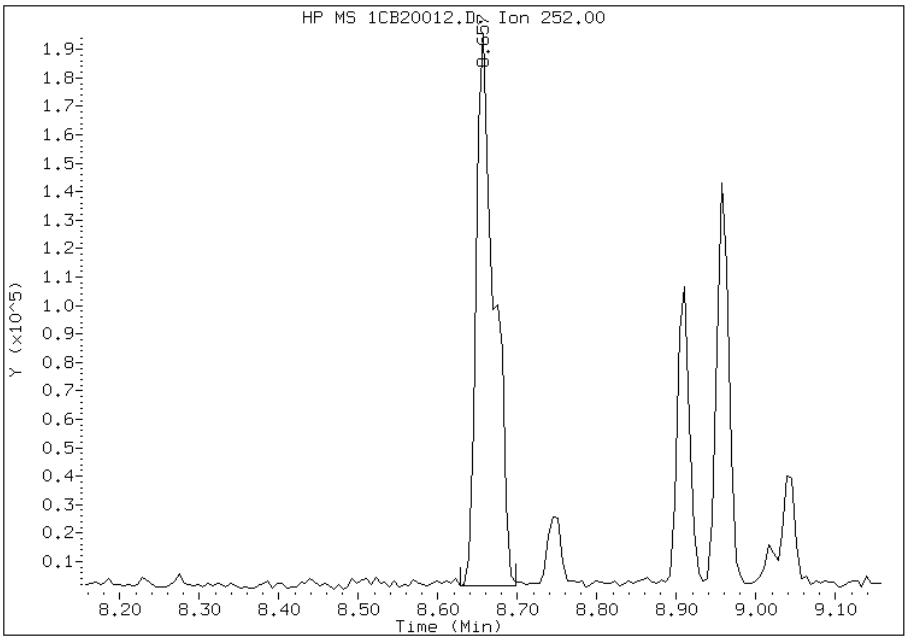
Processing Integration Results

RT: 8.66

Response: 308731

Amount: 4

Conc: 1405



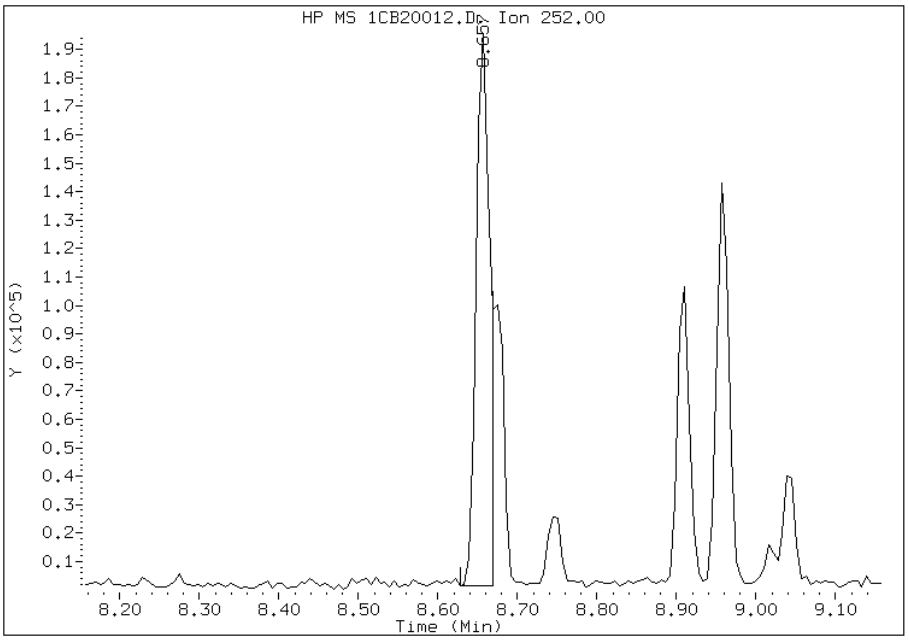
Manual Integration Results

RT: 8.66

Response: 232237

Amount: 3

Conc: 1057



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 09:20
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20012.D
Inj. Date and Time: 20-FEB-2013 17:05
Instrument ID: BSMC5973.i
Client ID: CV0971AB-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/21/2013

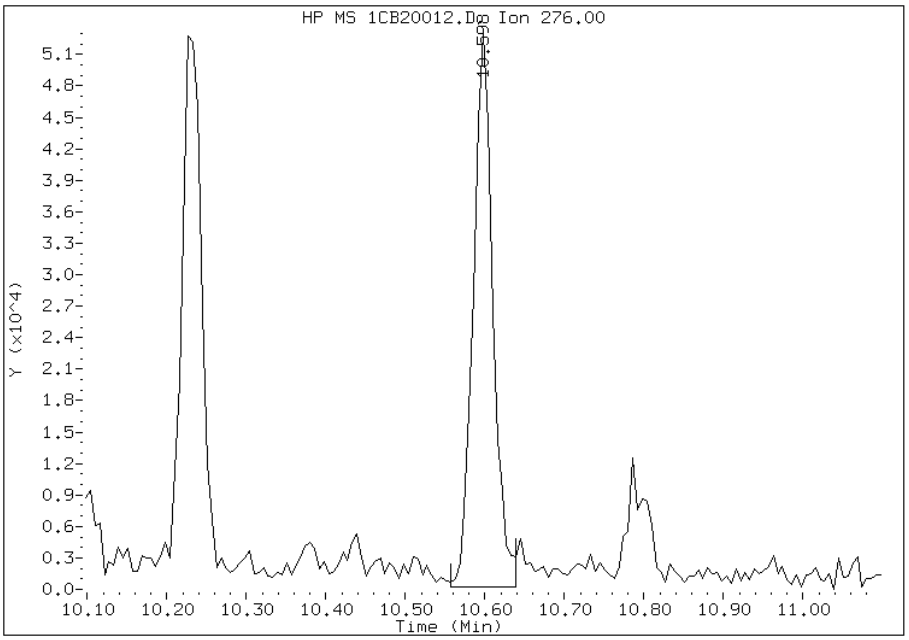
Processing Integration Results

RT: 10.60

Response: 90375

Amount: 1

Conc: 443



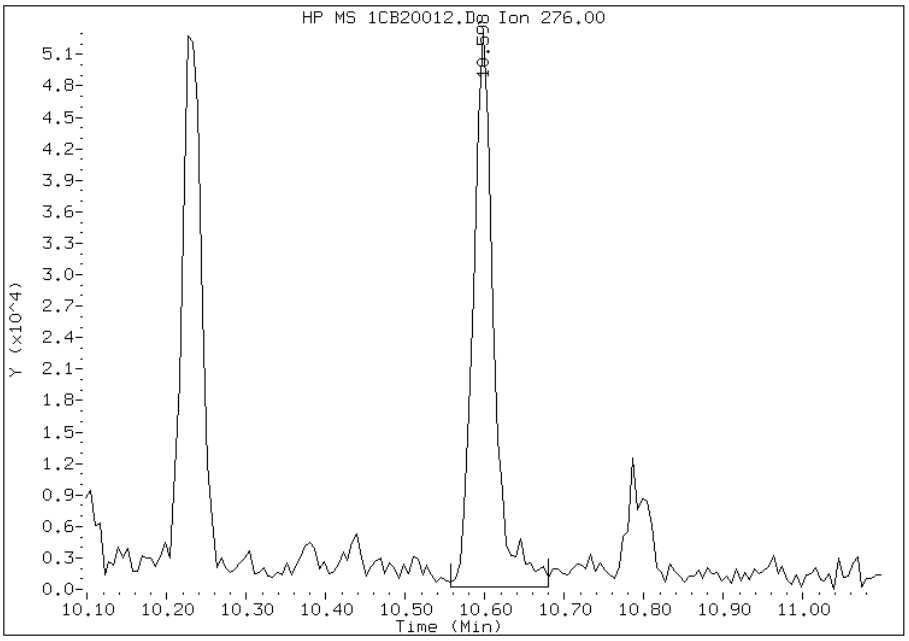
Manual Integration Results

RT: 10.60

Response: 95618

Amount: 1

Conc: 469



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 09:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20012.D
Inj. Date and Time: 20-FEB-2013 17:05
Instrument ID: BSMC5973.i
Client ID: CV0971AB-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

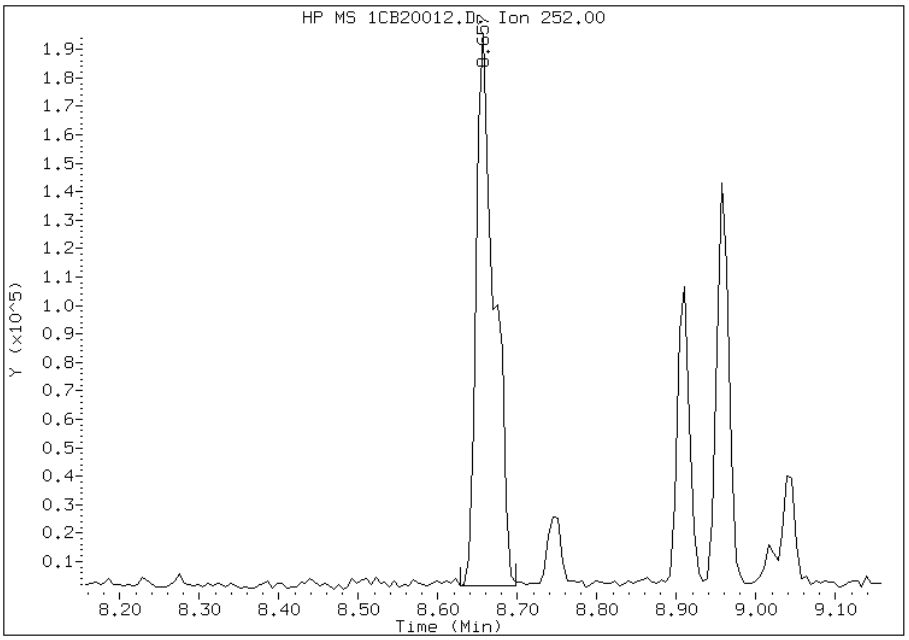
Processing Integration Results

RT: 8.66

Response: 308731

Amount: 4

Conc: 1275



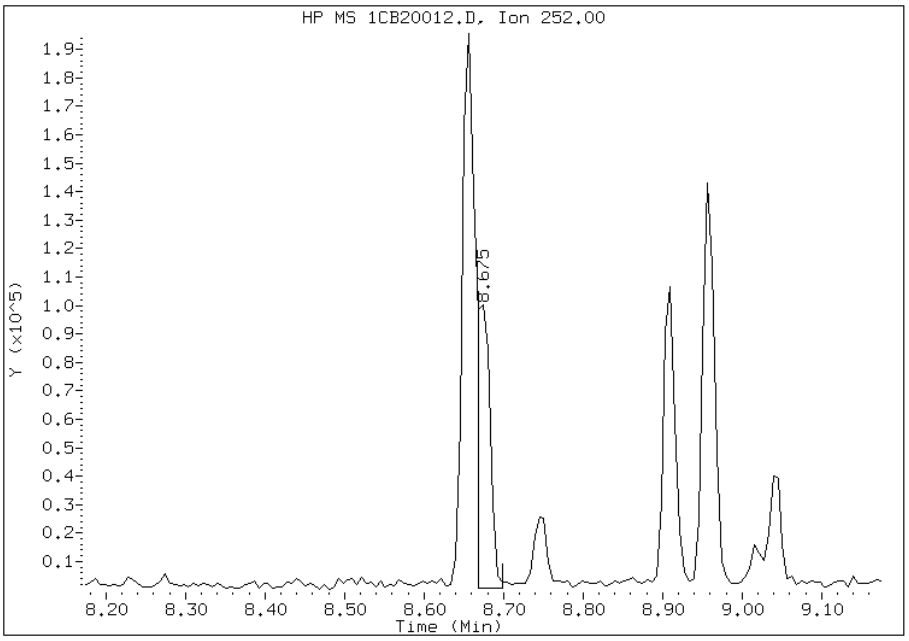
Manual Integration Results

RT: 8.67

Response: 112182

Amount: 1

Conc: 463



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 09:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20012.D
Inj. Date and Time: 20-FEB-2013 17:05
Instrument ID: BSMC5973.i
Client ID: CV0971AB-GS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/21/2013

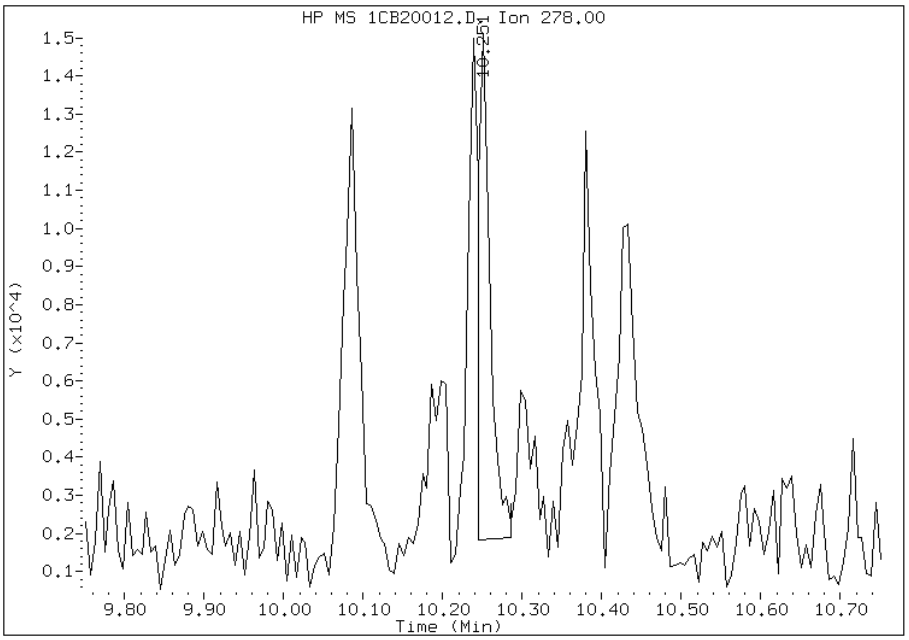
Processing Integration Results

RT: 10.25

Response: 13934

Amount: 0

Conc: 74



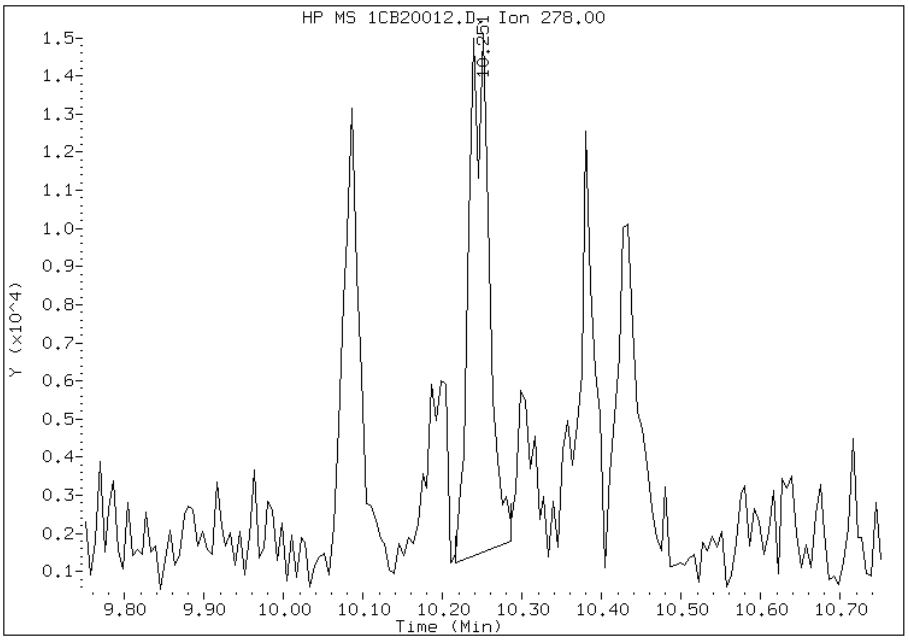
Manual Integration Results

RT: 10.25

Response: 24174

Amount: 0

Conc: 128



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 09:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20012.D
Inj. Date and Time: 20-FEB-2013 17:05
Instrument ID: BSMC5973.i
Client ID: CV0971AB-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

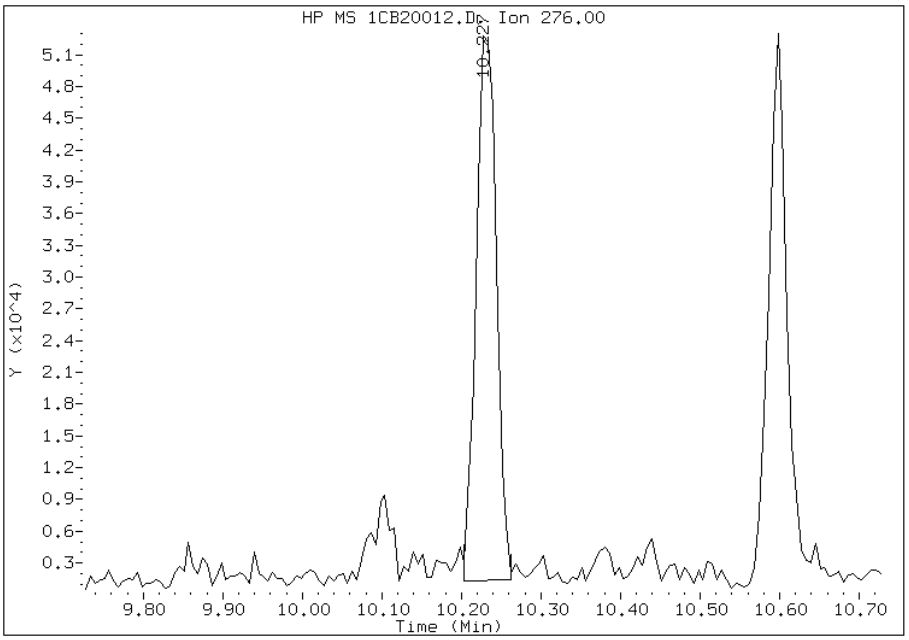
Processing Integration Results

RT: 10.23

Response: 90437

Amount: 1

Conc: 450



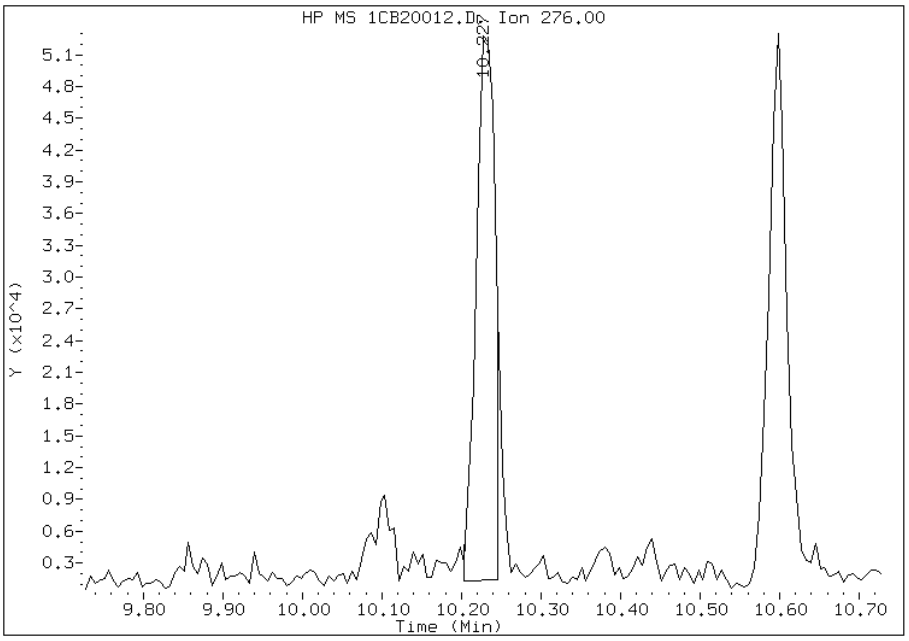
Manual Integration Results

RT: 10.23

Response: 84634

Amount: 1

Conc: 421



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 09:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971A-CS | Lab Sample ID: 680-87447-2

Matrix: Solid | Lab File ID: 1CB20013.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 08:45

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.14(g) | Date Analyzed: 02/20/2013 17:23

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

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

% Moisture: 45.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	720	U	720	140
208-96-8	Acenaphthylene	38	J	290	36
120-12-7	Anthracene	43	J	61	30
56-55-3	Benzo[a]anthracene	280		58	28
50-32-8	Benzo[a]pyrene	290		75	37
205-99-2	Benzo[b]fluoranthene	440		88	44
191-24-2	Benzo[g,h,i]perylene	220		140	32
207-08-9	Benzo[k]fluoranthene	150		58	26
218-01-9	Chrysene	260		65	32
53-70-3	Dibenz(a,h)anthracene	64	J	140	30
206-44-0	Fluoranthene	470		140	29
86-73-7	Fluorene	140	U	140	30
193-39-5	Indeno[1,2,3-cd]pyrene	180		140	51
90-12-0	1-Methylnaphthalene	72	J	290	32
91-57-6	2-Methylnaphthalene	90	J	290	51
91-20-3	Naphthalene	74	J	290	32
85-01-8	Phenanthrene	270		58	28
129-00-0	Pyrene	450		140	27

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20013.D
Lab Smp Id: 680-87447-A-2-A Client Smp ID: CV0971A-CS
Inj Date : 20-FEB-2013 17:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-2-a
Misc Info : 680-87447-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 13
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	15.140	Weight Extracted
M	45.029	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2057989	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1565513	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2905214	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	80361	1.88783	907.3278
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	2995163	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2829150	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	8415	0.15431	74.1632(Q)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	6652	0.18760	90.1621
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	4843	0.15017	72.1755
5 Acenaphthylene	152	4.810	4.810	(0.982)	4971	0.07981	38.3600
11 Phenanthrene	178	5.868	5.869	(1.003)	48327	0.55728	267.8425
12 Anthracene	178	5.898	5.904	(1.008)	6968	0.08918	42.8635
13 Carbazole	167	6.010	6.010	(1.027)	6547	0.09647	46.3652
15 Fluoranthene	202	6.704	6.710	(1.146)	83710	0.98789	474.8001

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.874	6.880	(0.882)	75264	0.94388	453.6504
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	48415	0.58617	281.7244
19 Chrysene	228	7.815	7.827	(1.002)	46405	0.54391	261.4155
20 Benzo(b)fluoranthene	252	8.656	8.662	(0.960)	62987	0.90810	436.4501
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	24013	0.31425	151.0355(Q)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	39563	0.59943	288.0968
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	23285	0.36731	176.5378(M)
25 Dibenzo(a,h)anthracene	278	10.239	10.262	(1.136)	7927	0.13260	63.7309(M)
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	29017	0.45061	216.5737

QC Flag Legend

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

Data File: 1CB20013.D

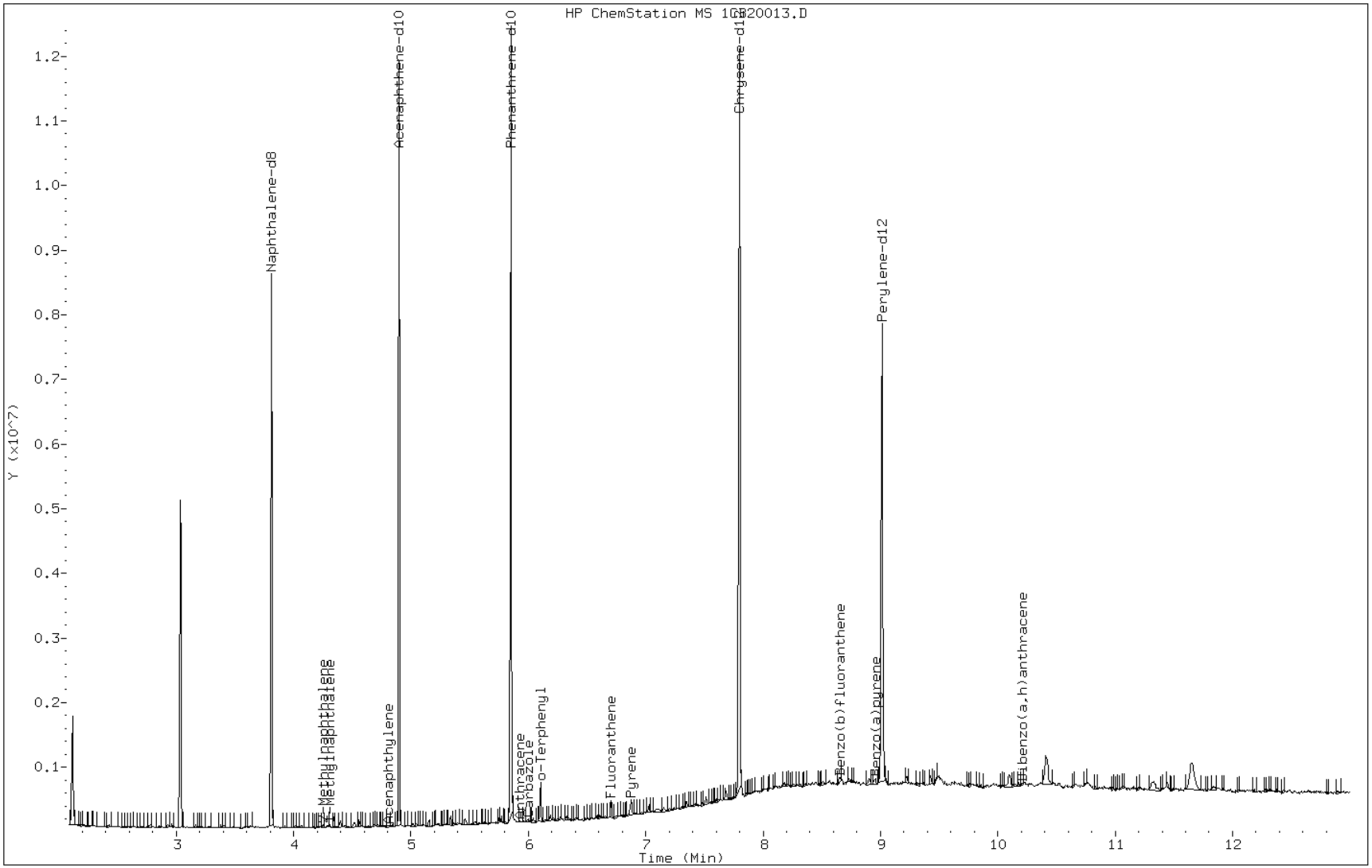
Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a

Operator: SCC



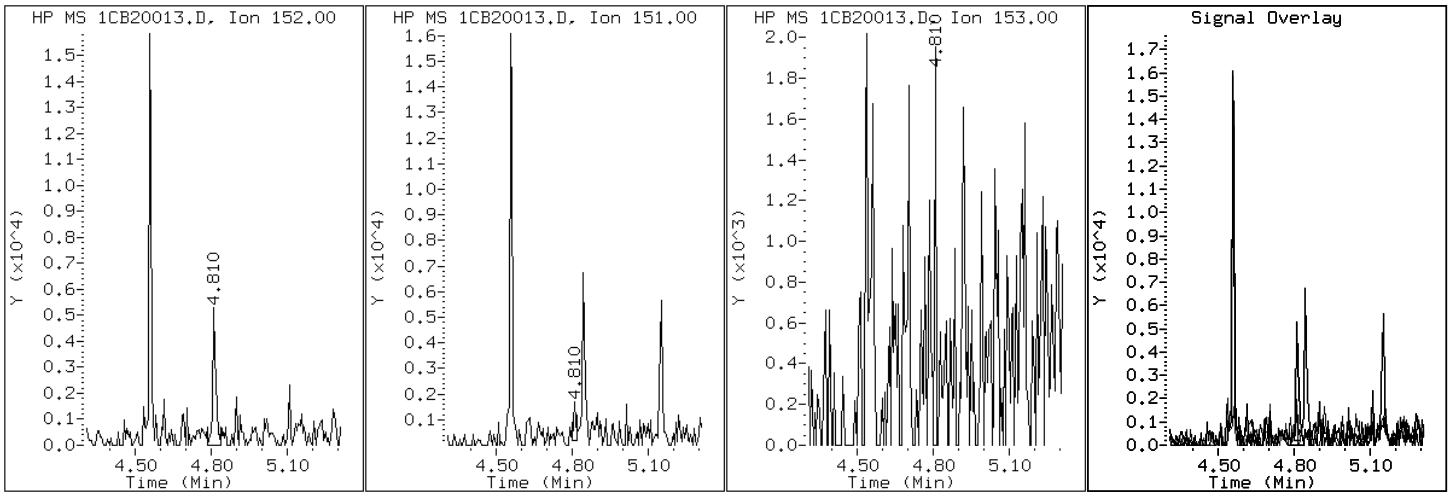
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

5 Acenaphthylene



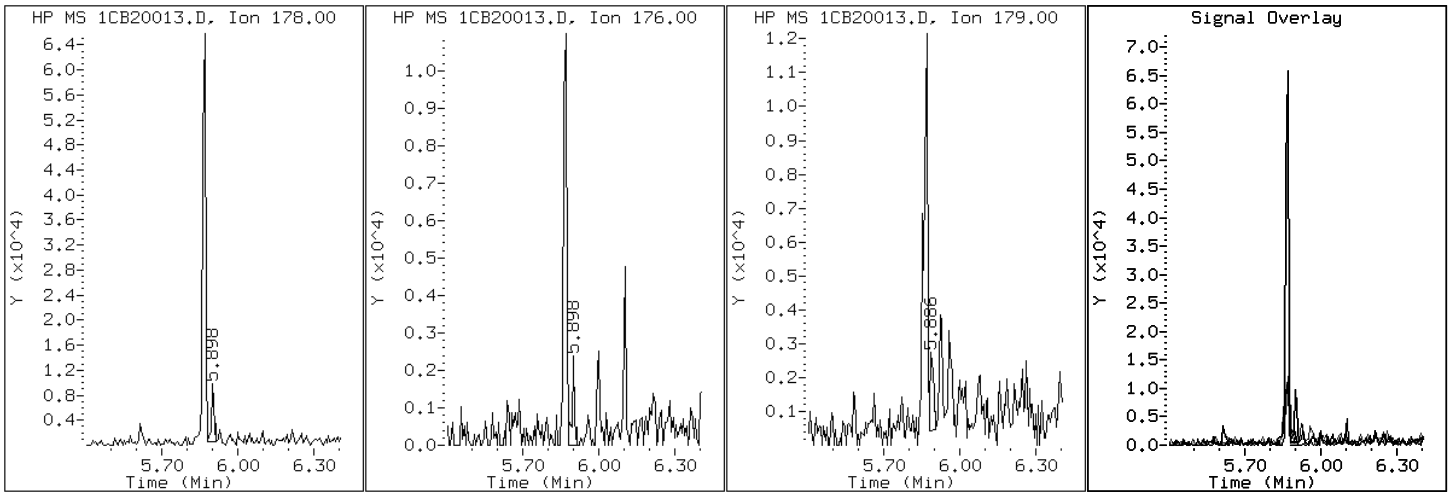
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

12 Anthracene



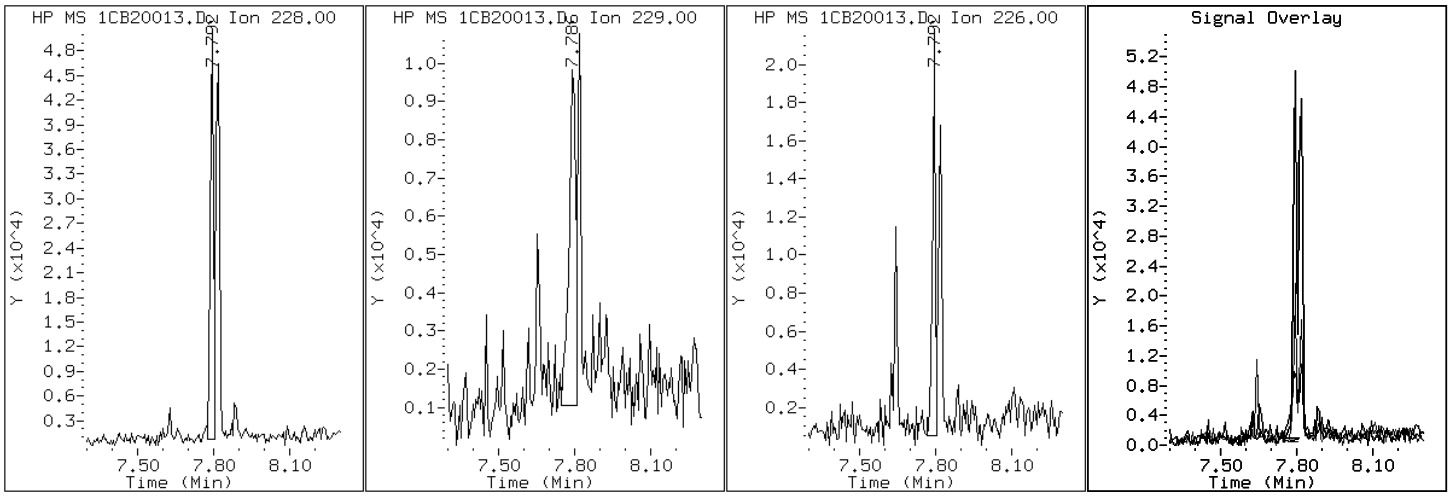
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

17 Benzo(a)anthracene



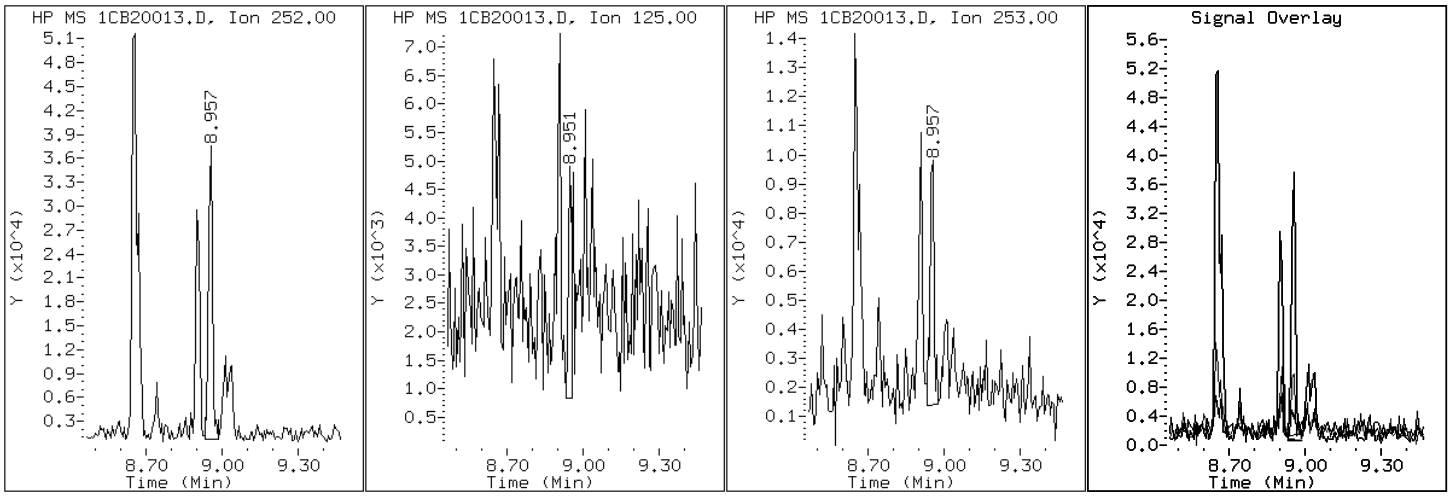
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

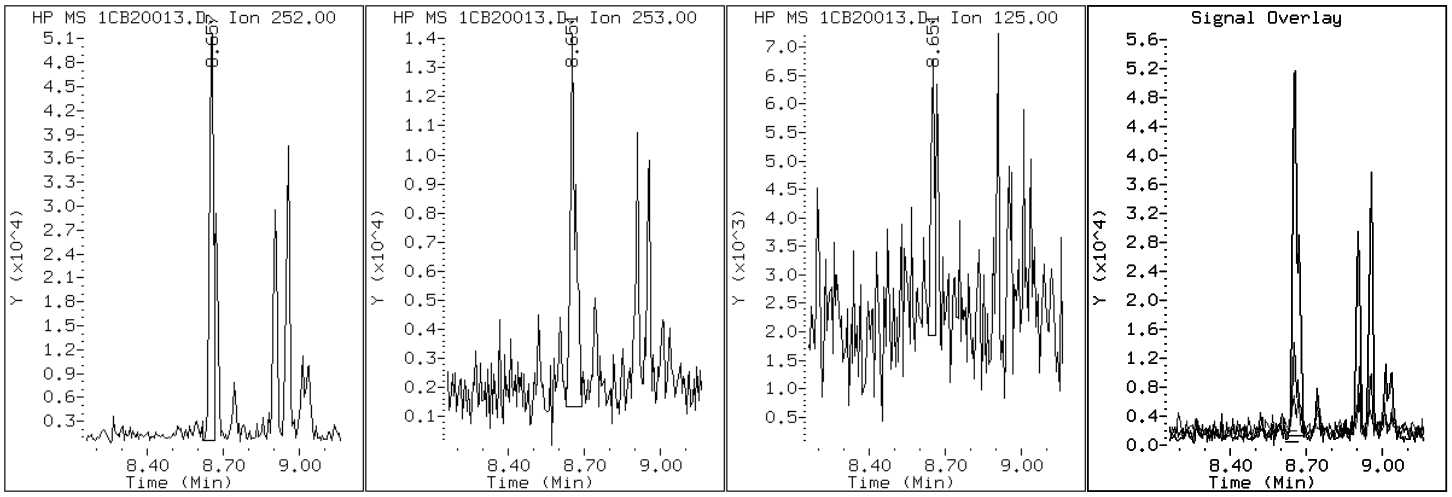
Client ID: CV0971A-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a

Operator: SCC

20 Benzo(b)fluoranthene



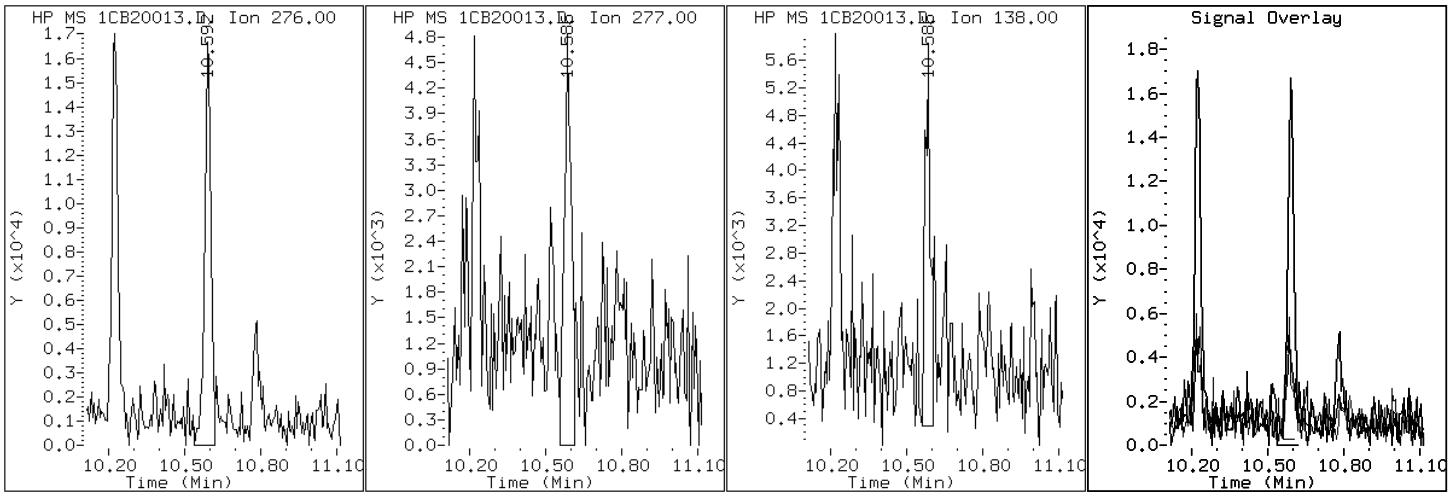
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

26 Benzo(g,h,i)perylene



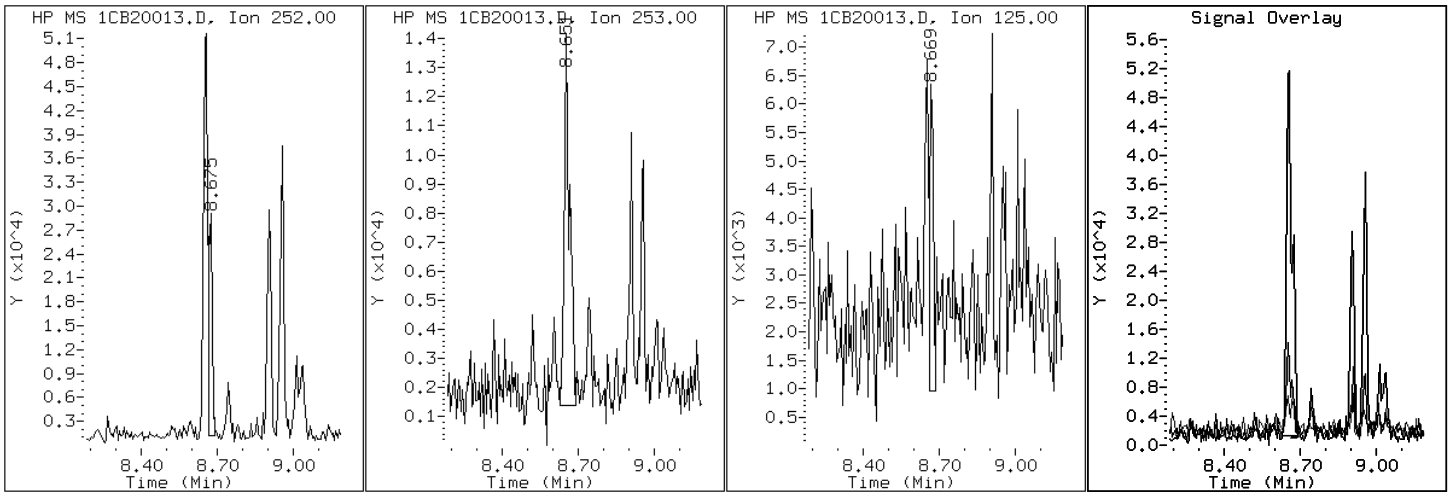
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

21 Benzo(k)fluoranthene



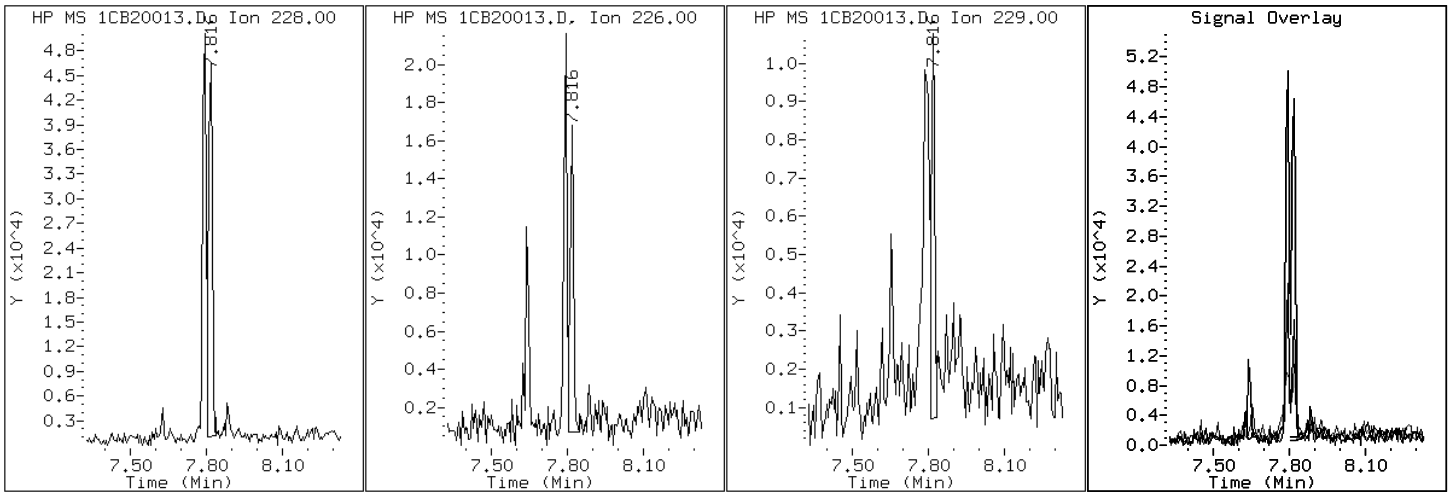
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

19 Chrysene



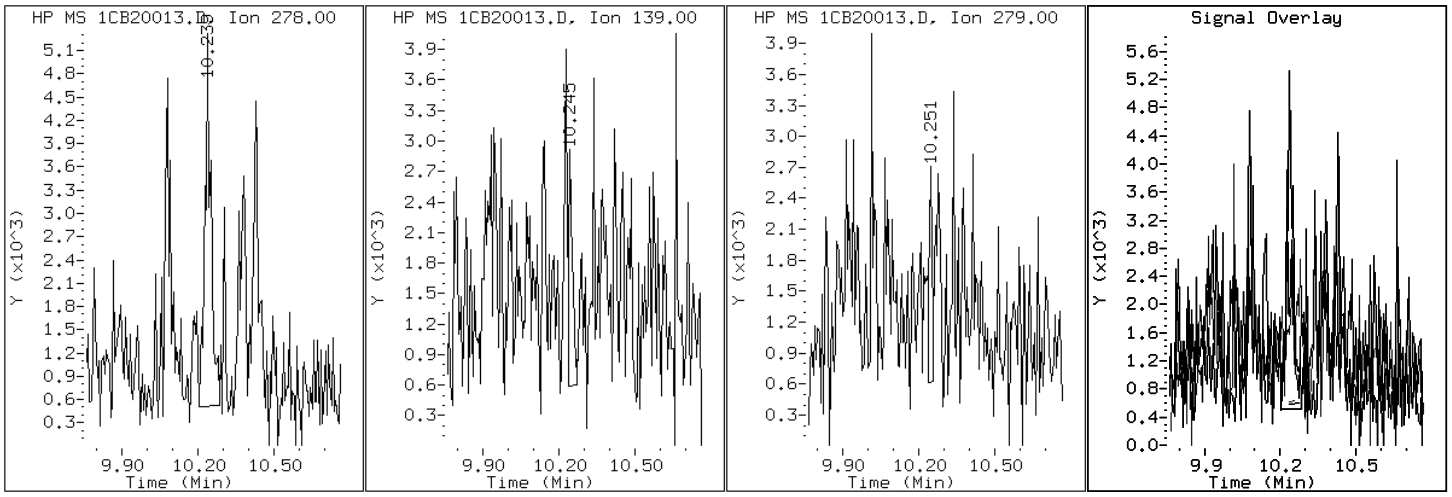
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

25 Dibenzo(a,h)anthracene



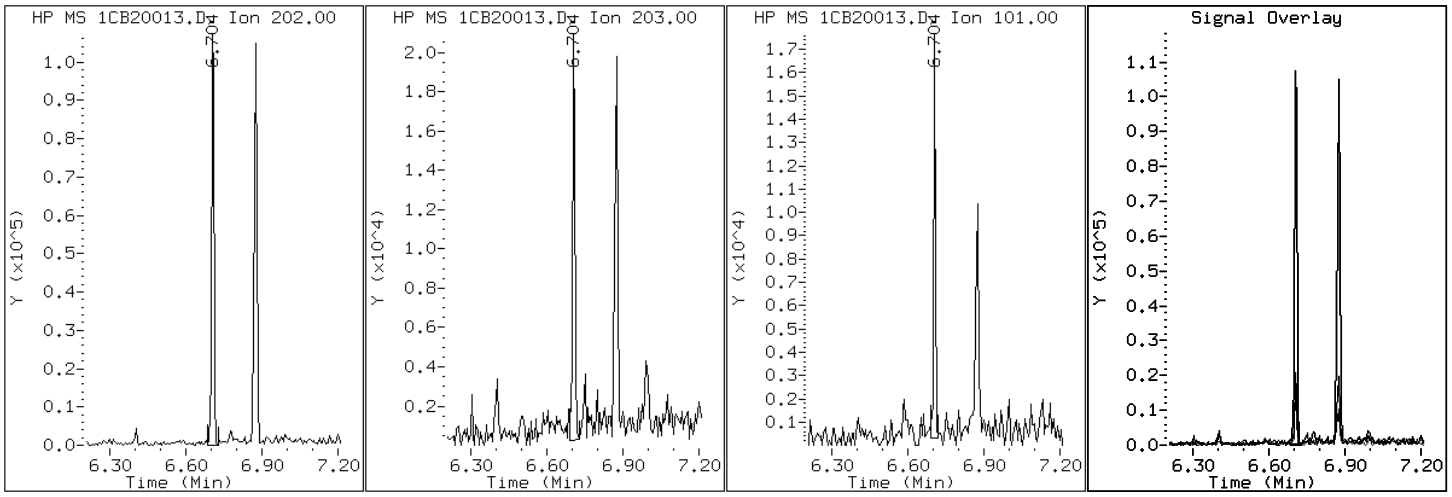
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

15 Fluoranthene



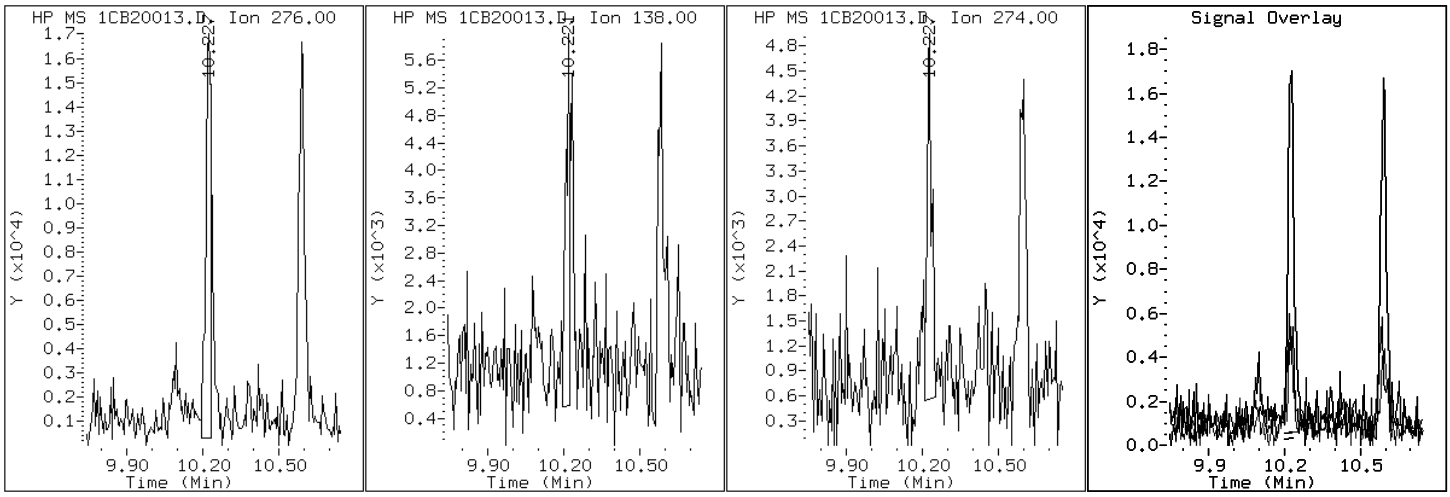
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

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



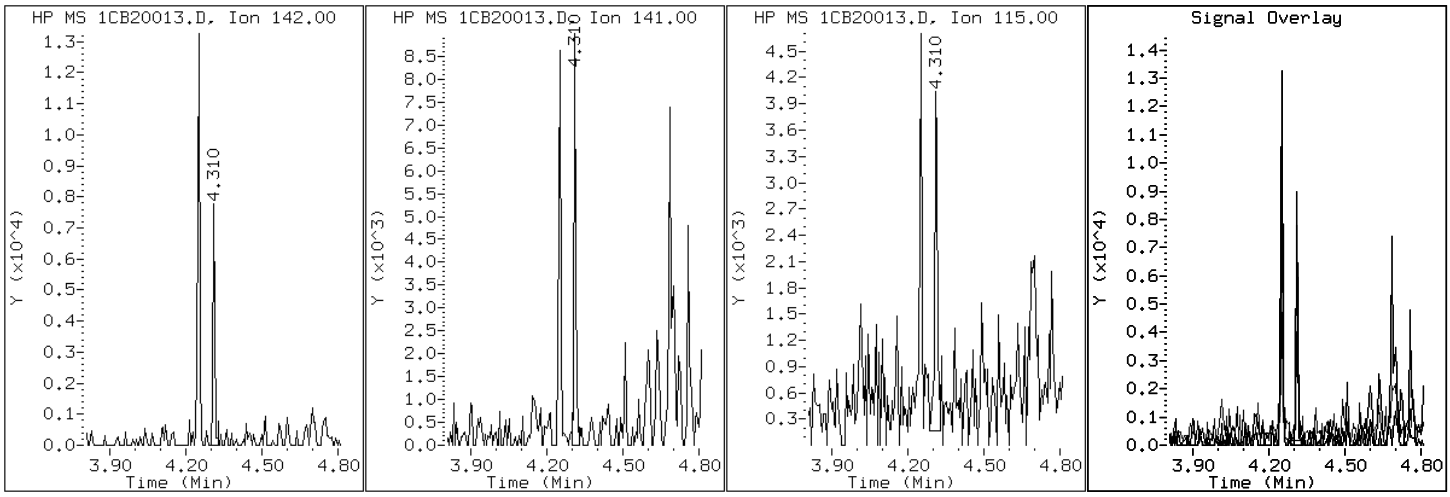
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

4 1-Methylnaphthalene



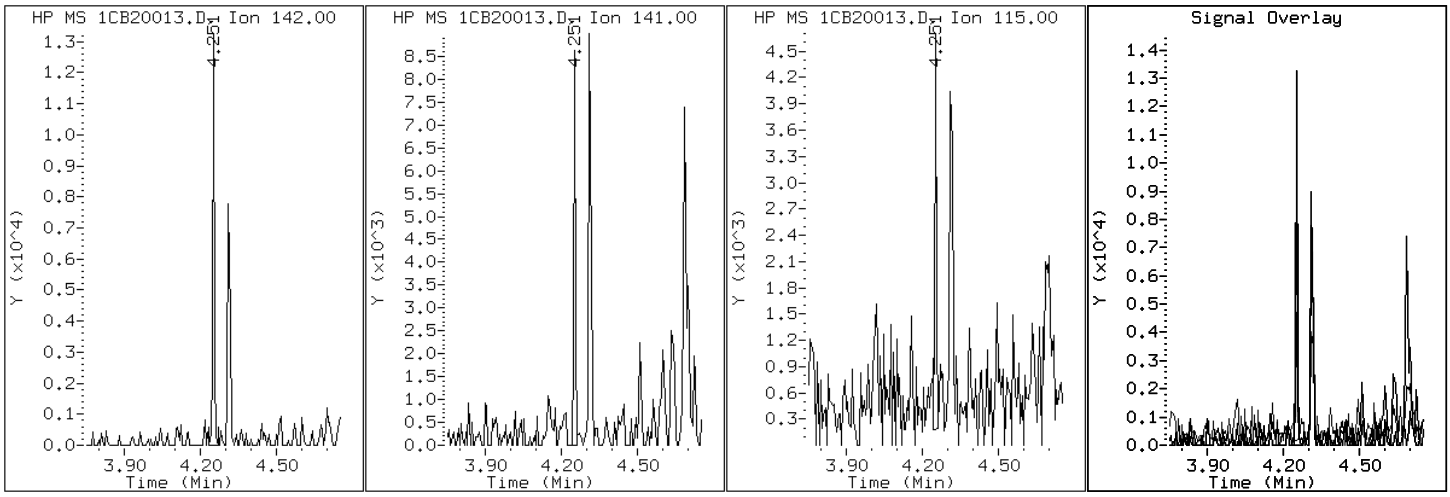
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

3 2-Methylnaphthalene



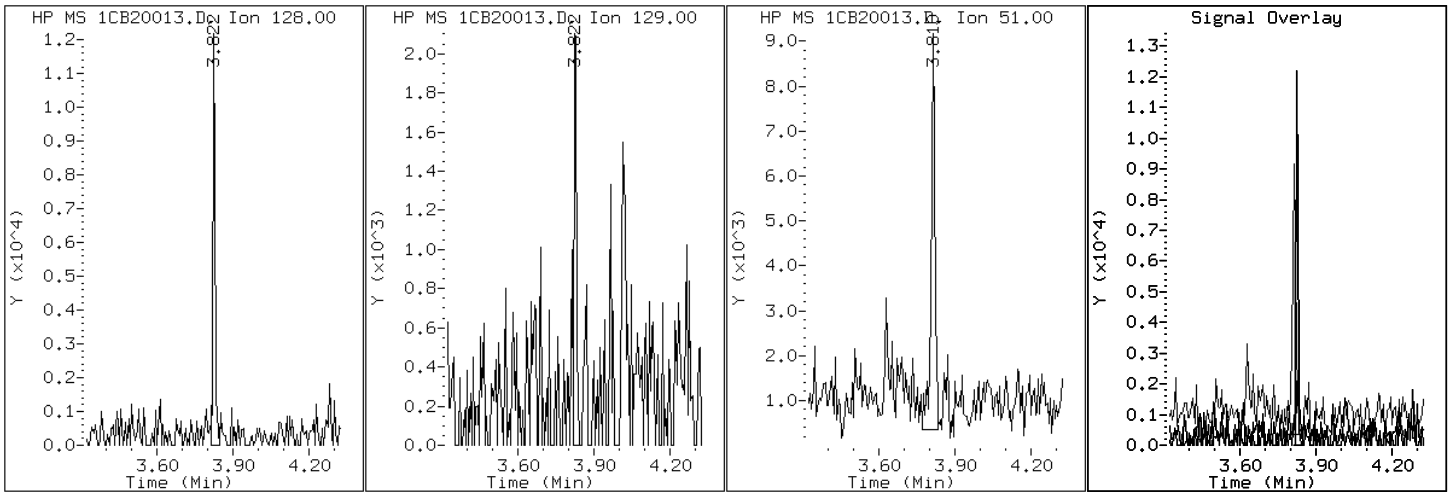
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

2 Naphthalene



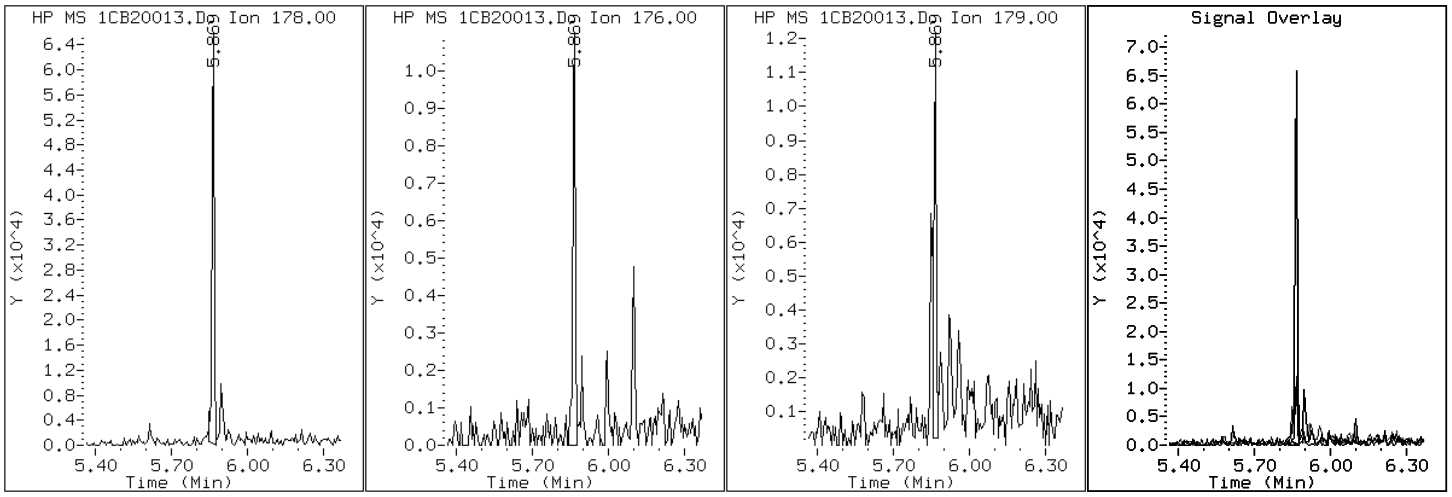
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

11 Phenanthrene



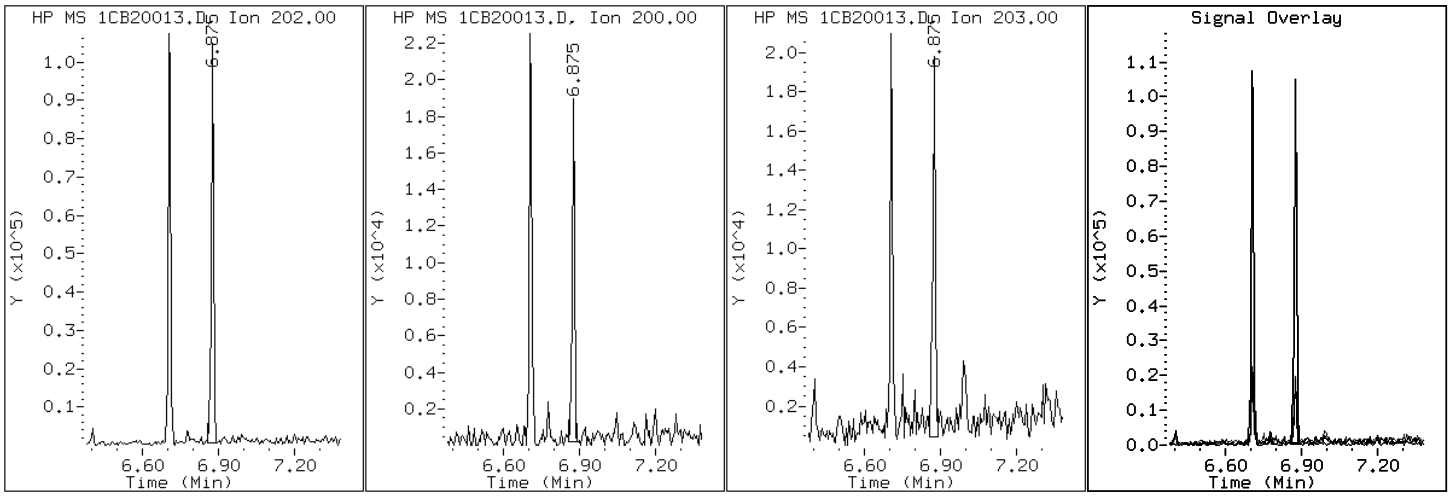
Data File: 1CB20013.D

Date: 20-FEB-2013 17:23

Client ID: CV0971A-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20013.D
Inj. Date and Time: 20-FEB-2013 17:23
Instrument ID: BSMC5973.i
Client ID: CV0971A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/21/2013

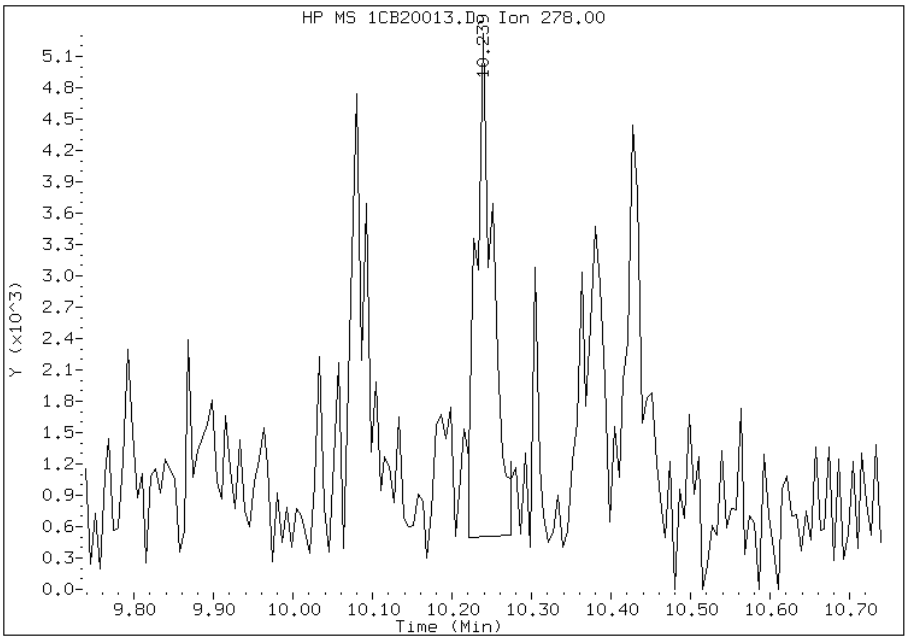
Processing Integration Results

RT: 10.24

Response: 7168

Amount: 0

Conc: 58



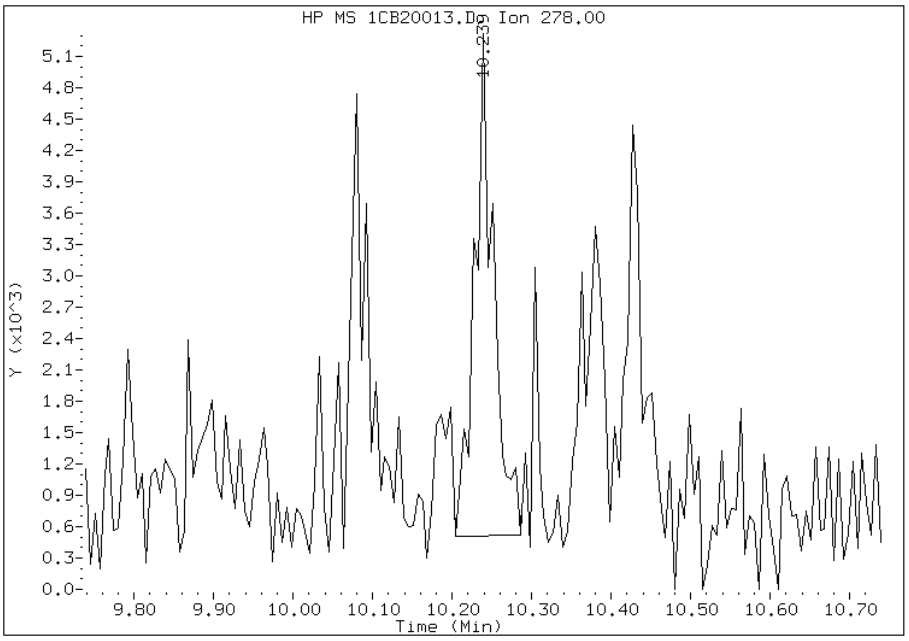
Manual Integration Results

RT: 10.24

Response: 7927

Amount: 0

Conc: 64



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 09:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20013.D
Inj. Date and Time: 20-FEB-2013 17:23
Instrument ID: BSMC5973.i
Client ID: CV0971A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

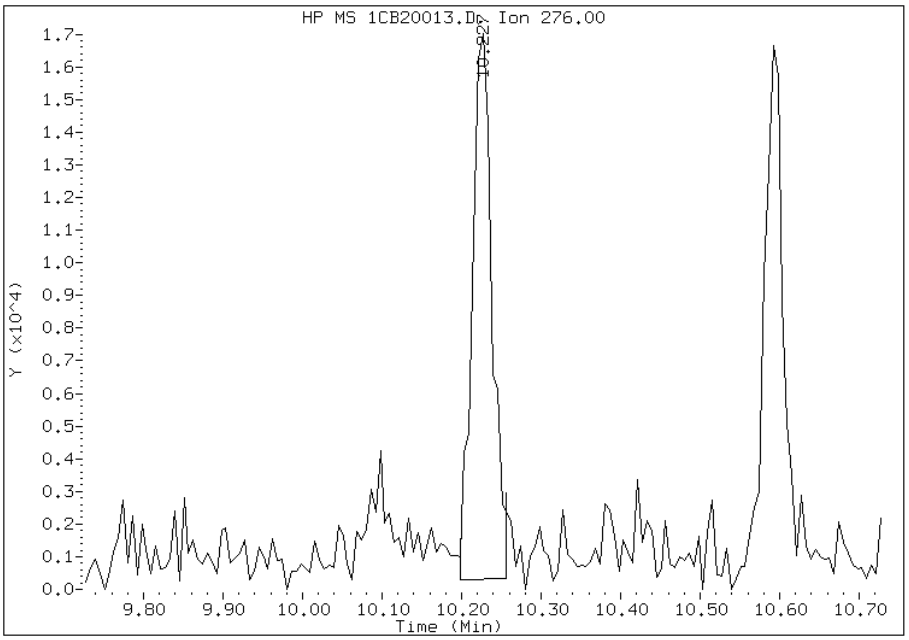
Processing Integration Results

RT: 10.23

Response: 29039

Amount: 0

Conc: 220



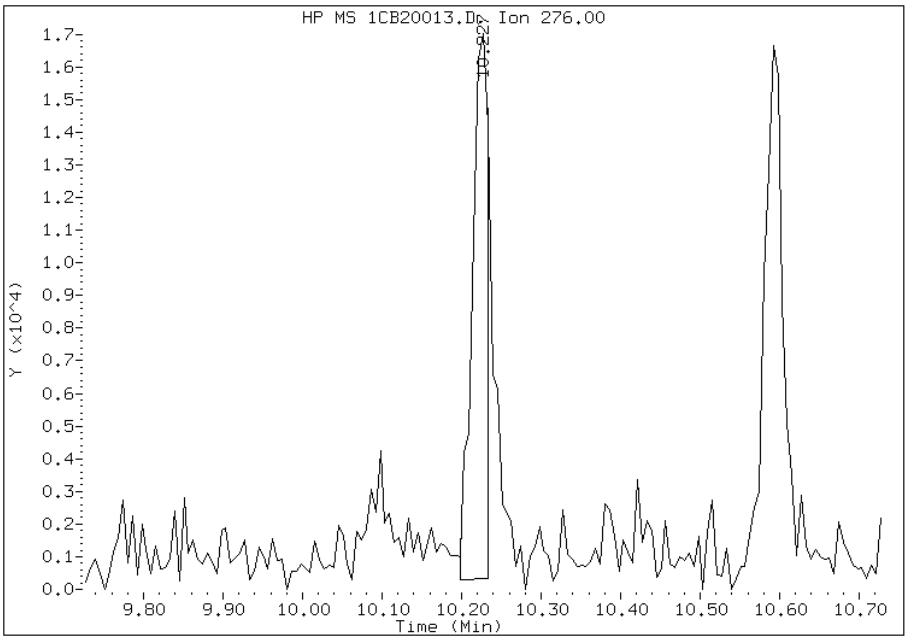
Manual Integration Results

RT: 10.23

Response: 23285

Amount: 0

Conc: 177



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 09:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971B-CS | Lab Sample ID: 680-87447-3

Matrix: Solid | Lab File ID: 1CB20016.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 08:51

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.30(g) | Date Analyzed: 02/20/2013 18:18

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

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

% Moisture: 33.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	590	U	590	120
208-96-8	Acenaphthylene	31	J	230	29
120-12-7	Anthracene	43	J	49	25
56-55-3	Benzo[a]anthracene	320		47	23
50-32-8	Benzo[a]pyrene	340		61	30
205-99-2	Benzo[b]fluoranthene	470		71	36
191-24-2	Benzo[g,h,i]perylene	250		120	26
207-08-9	Benzo[k]fluoranthene	190		47	21
218-01-9	Chrysene	310		53	26
53-70-3	Dibenz(a,h)anthracene	61	J	120	24
206-44-0	Fluoranthene	420		120	23
86-73-7	Fluorene	26	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	200		120	42
90-12-0	1-Methylnaphthalene	120	J	230	26
91-57-6	2-Methylnaphthalene	120	J	230	42
91-20-3	Naphthalene	120	J	230	26
85-01-8	Phenanthrene	250		47	23
129-00-0	Pyrene	370		120	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20016.D
Lab Smp Id: 680-87447-A-3-A Client Smp ID: CV0971B-CS
Inj Date : 20-FEB-2013 18:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-3-a
Misc Info : 680-87447-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 16
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	15.300	Weight Extracted
M	33.040	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2087231	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1599000	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2957803	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	88690	2.04645	799.0168
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3180301	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2900188	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	16762	0.30306	118.3277
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	11054	0.30737	120.0099
4 1-Methylnaphthalene	142	4.316	4.310	(1.133)	10426	0.31876	124.4570
5 Acenaphthylene	152	4.810	4.810	(0.982)	5096	0.08011	31.2770
9 Fluorene	166	5.239	5.239	(1.070)	3357	0.06555	25.5919
11 Phenanthrene	178	5.869	5.869	(1.003)	57468	0.65091	254.1430
12 Anthracene	178	5.898	5.904	(1.008)	8660	0.10887	42.5069
13 Carbazole	167	6.004	6.010	(1.026)	8191	0.11855	46.2859(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.710	(1.146)	92300	1.06990	417.7317
16 Pyrene	202	6.874	6.880	(0.882)	80387	0.94944	370.7025
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	71833	0.81907	319.7969
19 Chrysene	228	7.815	7.827	(1.002)	72877	0.80446	314.0963
20 Benzo(b)fluoranthene	252	8.657	8.662	(0.960)	86136	1.21142	472.9897(M)
21 Benzo(k)fluoranthene	252	8.668	8.686	(0.962)	39037	0.49835	194.5774(QM)
22 Benzo(a)pyrene	252	8.957	8.968	(0.993)	58935	0.87106	340.0994
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	33751	0.51937	202.7830(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	9572	0.15620	60.9856
26 Benzo(g,h,i)perylene	276	10.603	10.615	(1.176)	41512	0.62886	245.5331

QC Flag Legend

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

Data File: 1CB20016.D

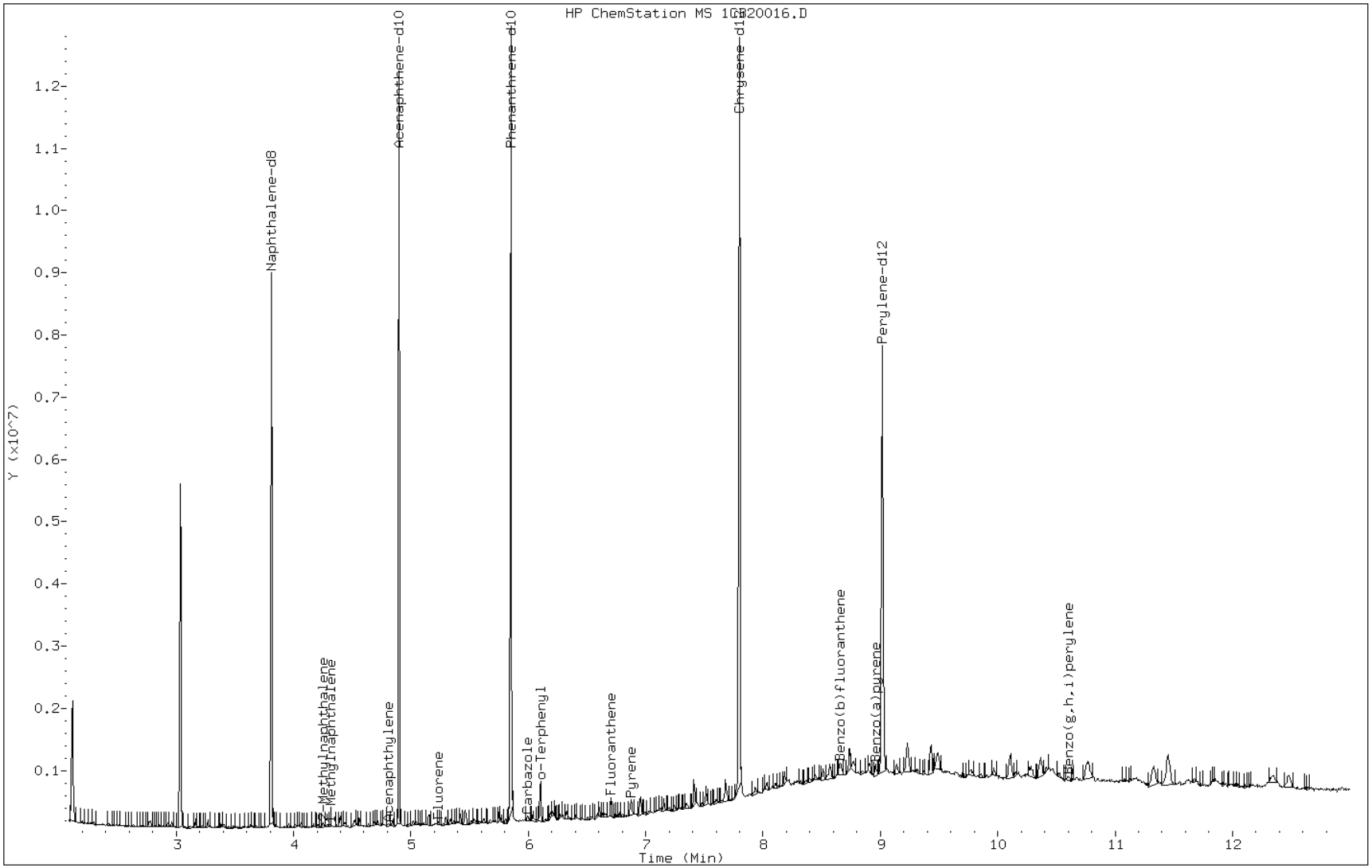
Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a

Operator: SCC



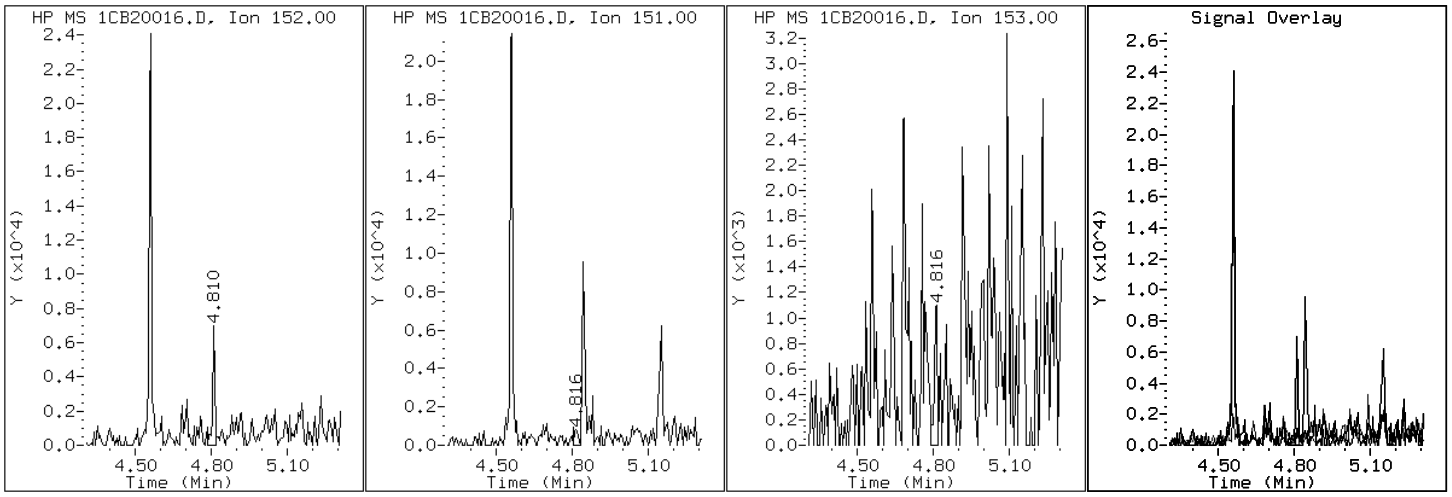
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

5 Acenaphthylene



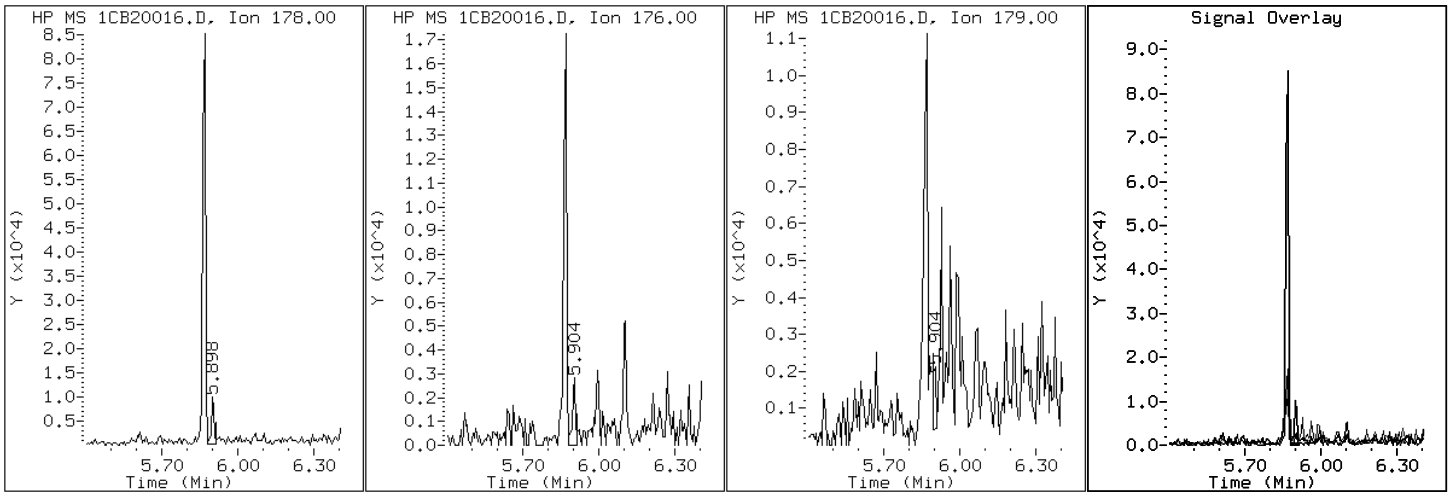
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

12 Anthracene



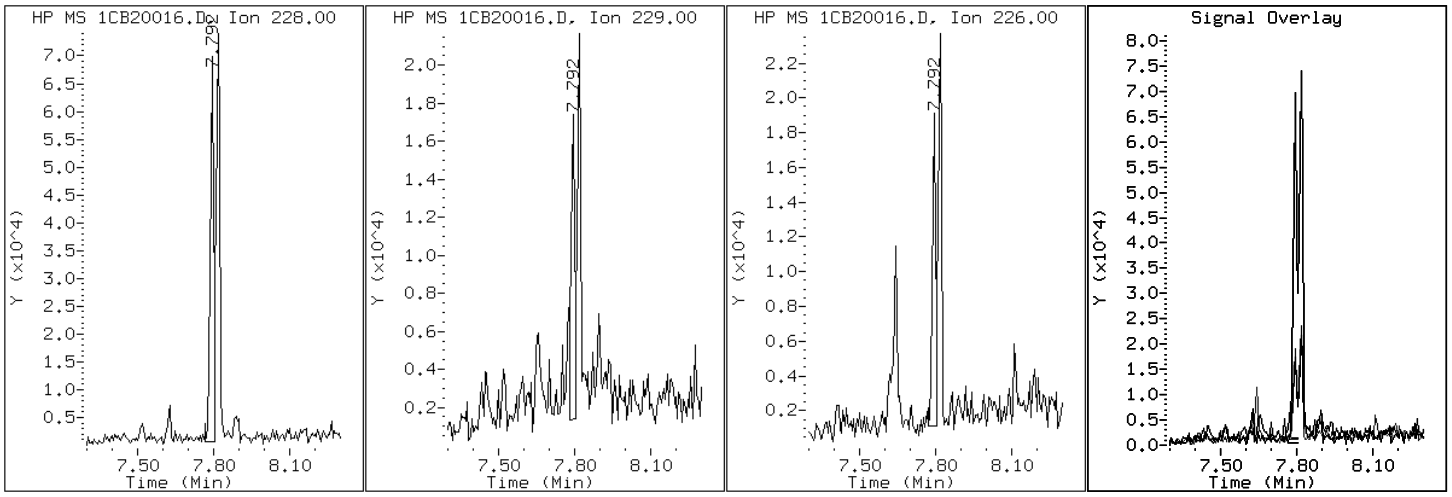
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

17 Benzo(a)anthracene



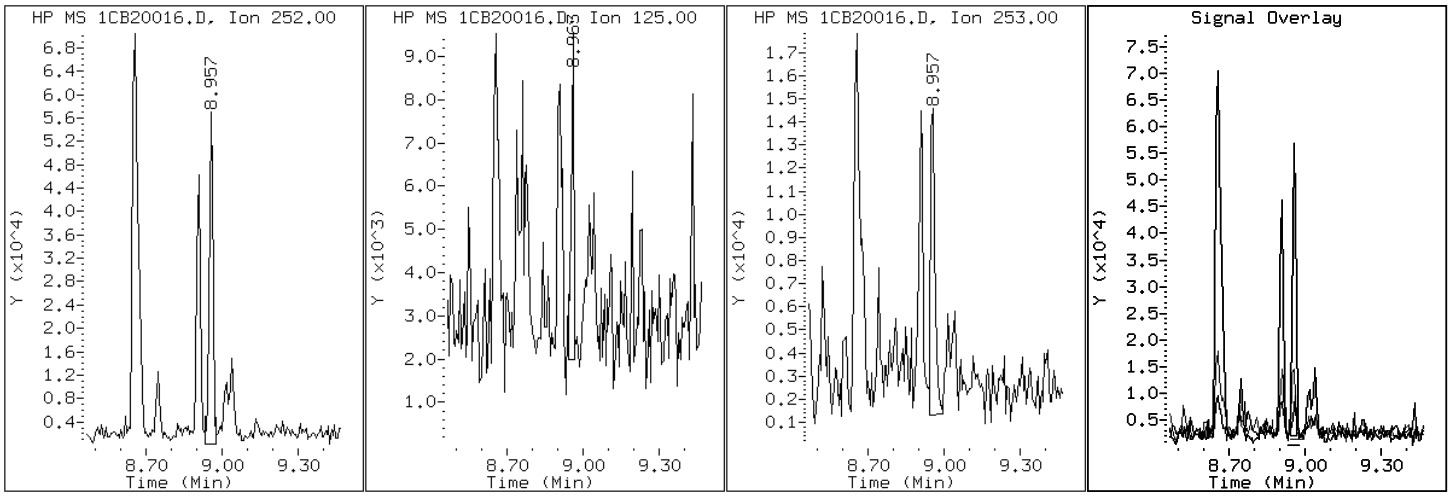
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

22 Benzo(a)pyrene



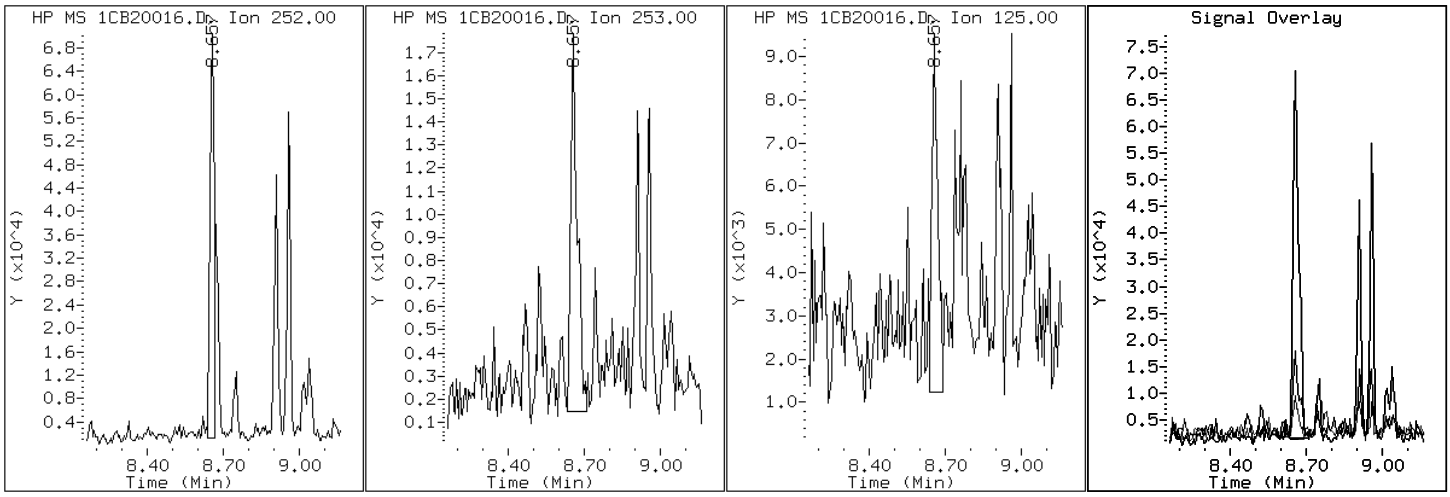
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

20 Benzo(b)fluoranthene



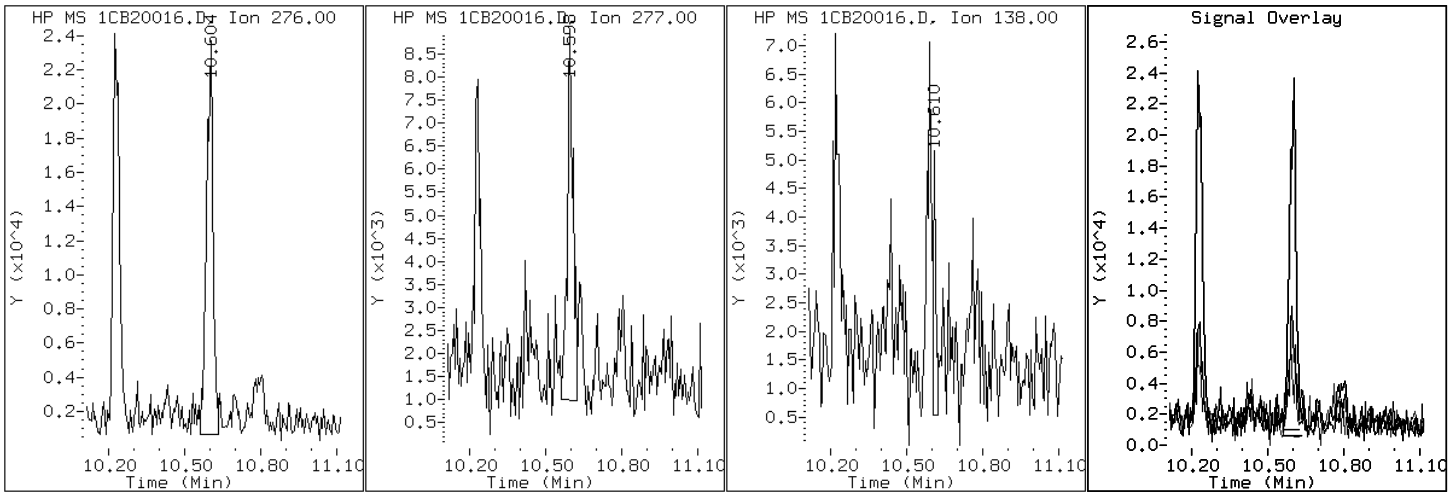
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

26 Benzo(g,h,i)perylene



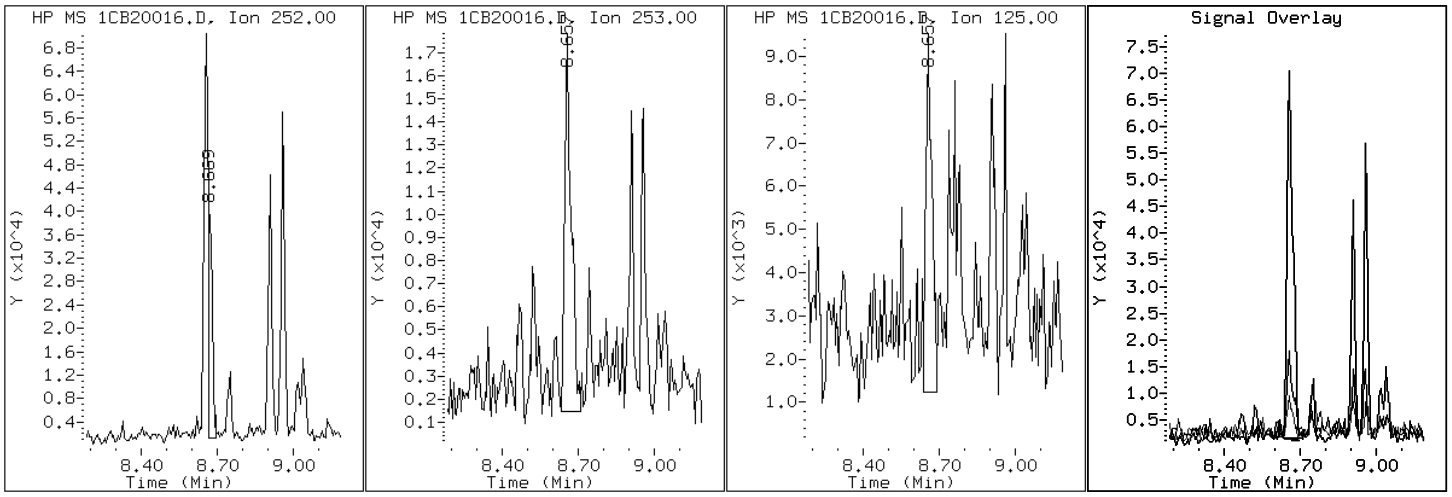
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

21 Benzo(k)fluoranthene



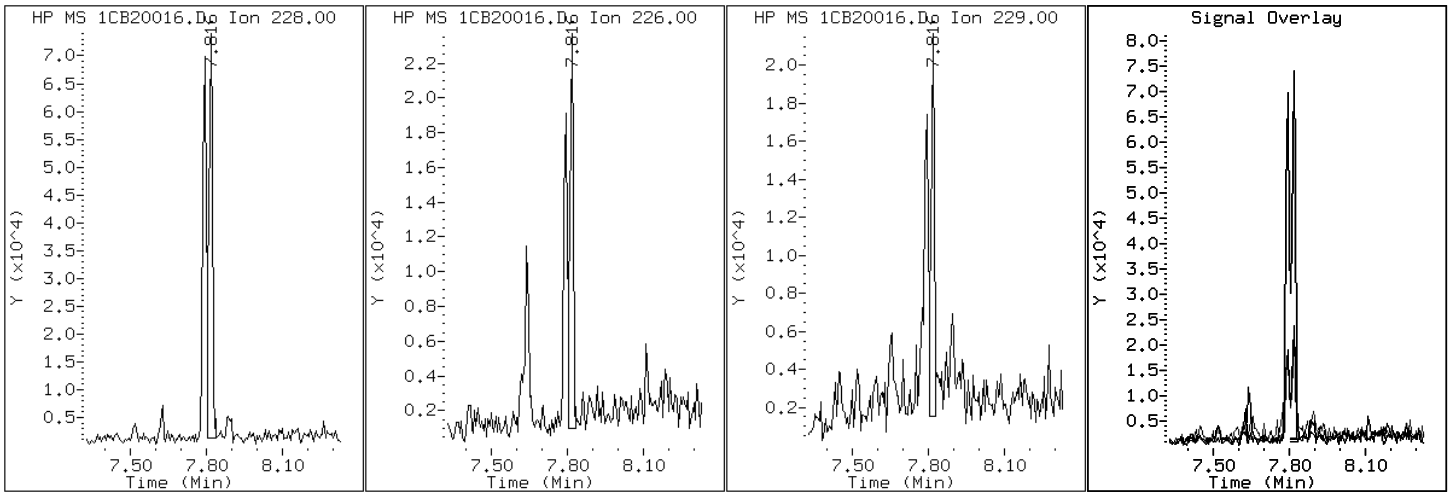
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

19 Chrysene



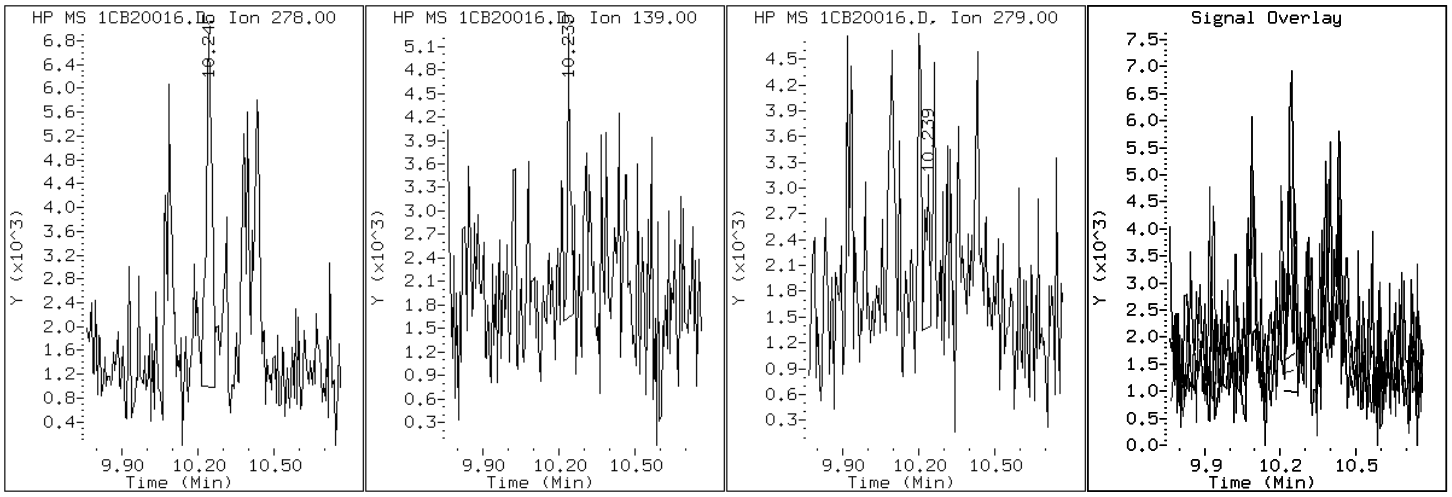
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

25 Dibenzo(a,h)anthracene



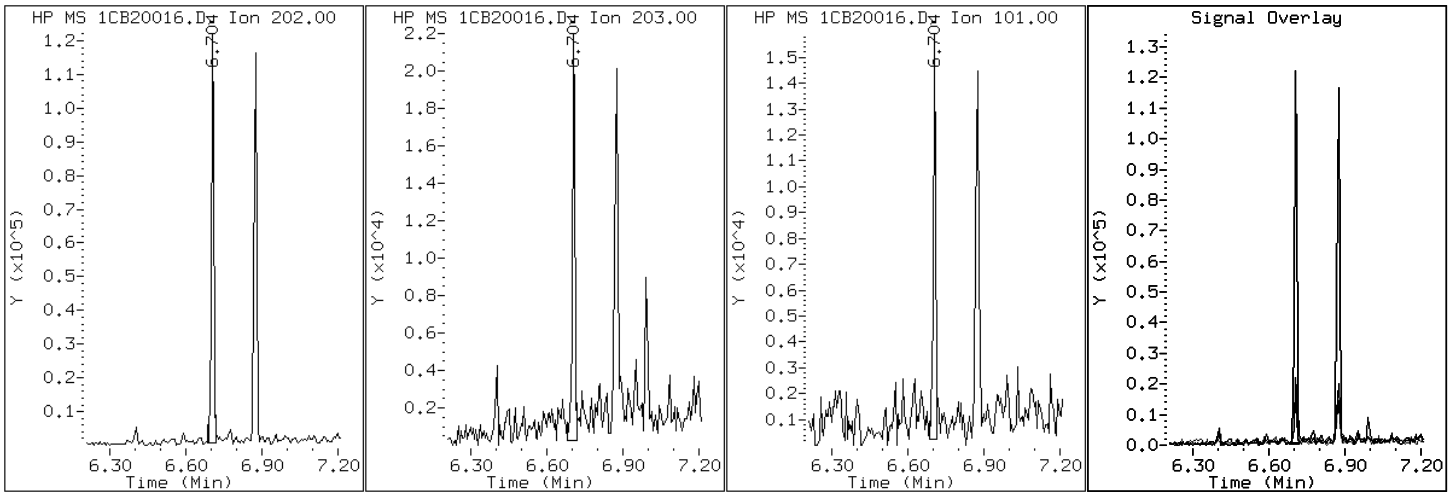
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

15 Fluoranthene



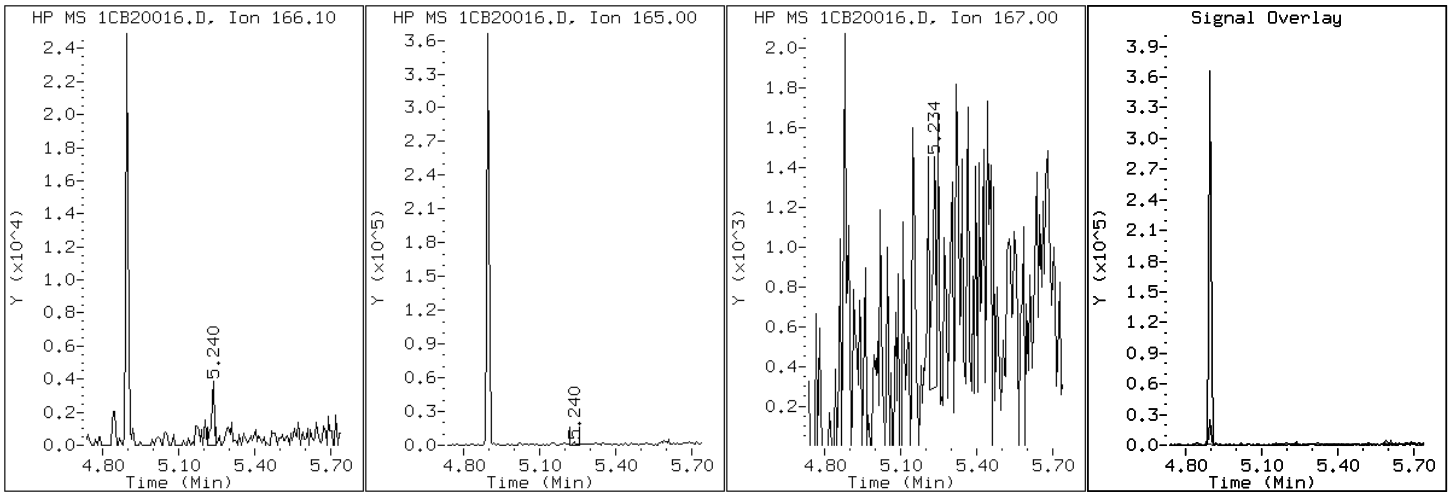
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

9 Fluorene



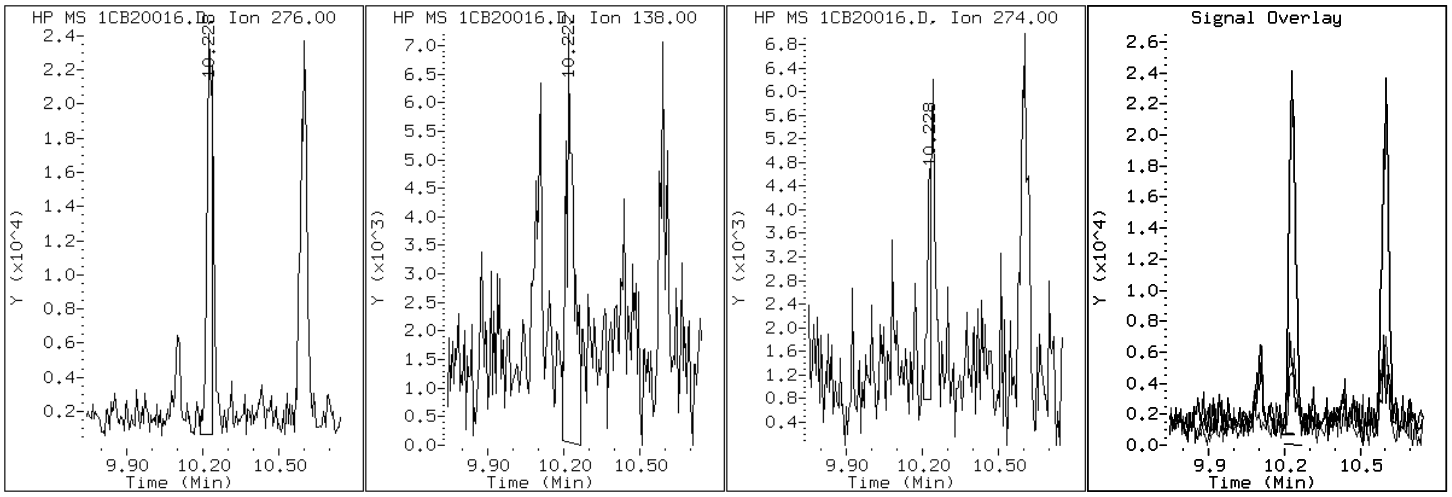
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

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



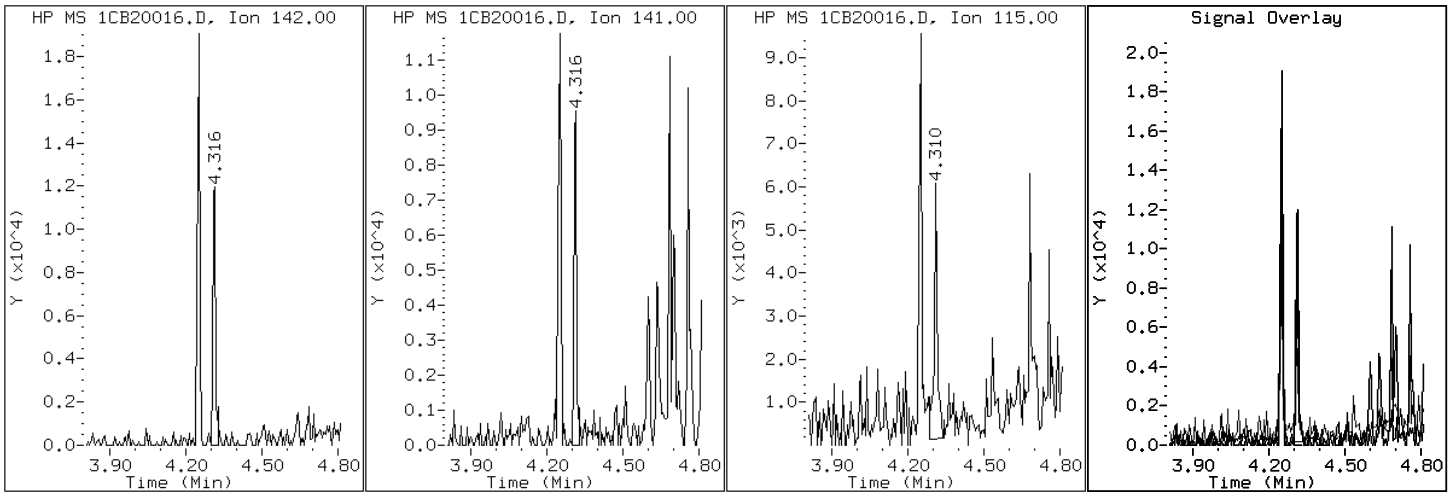
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

4 1-Methylnaphthalene



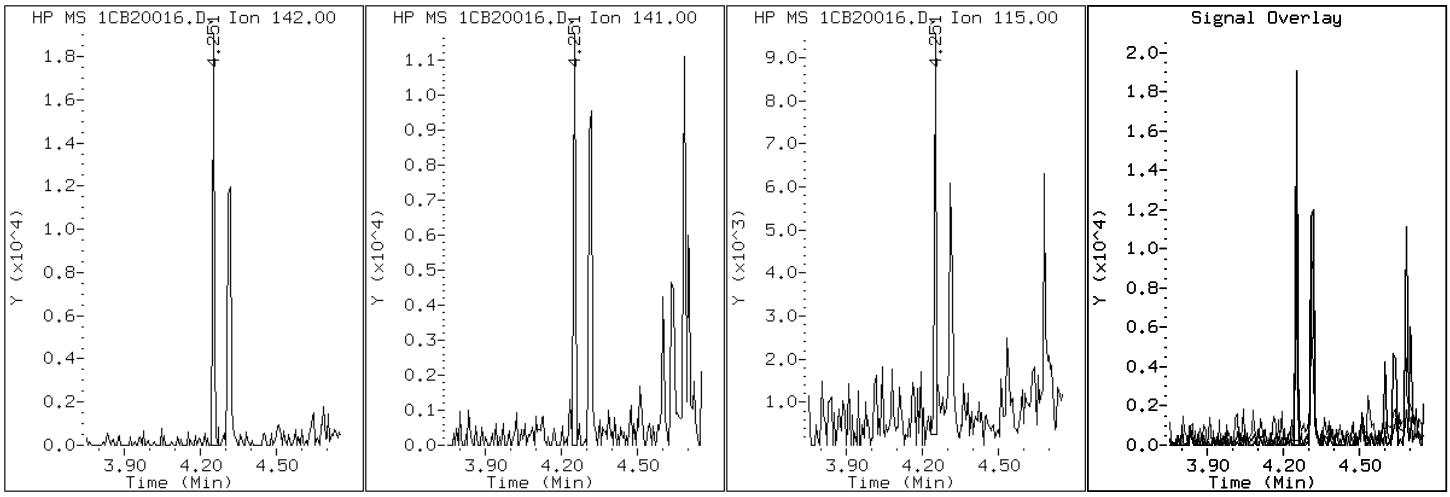
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

3 2-Methylnaphthalene



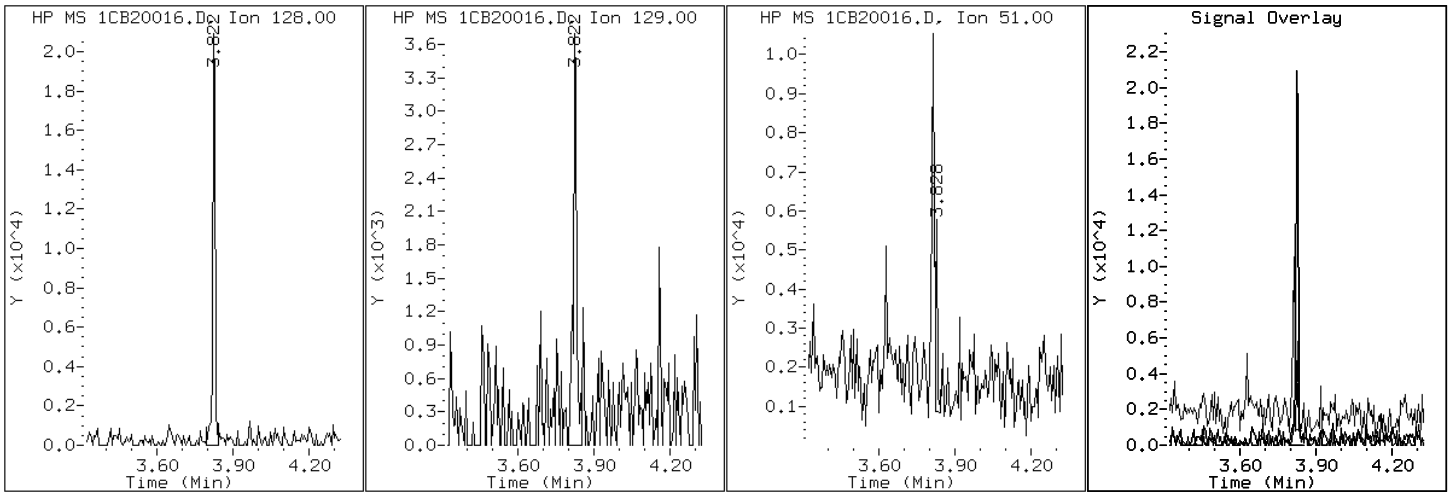
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

2 Naphthalene



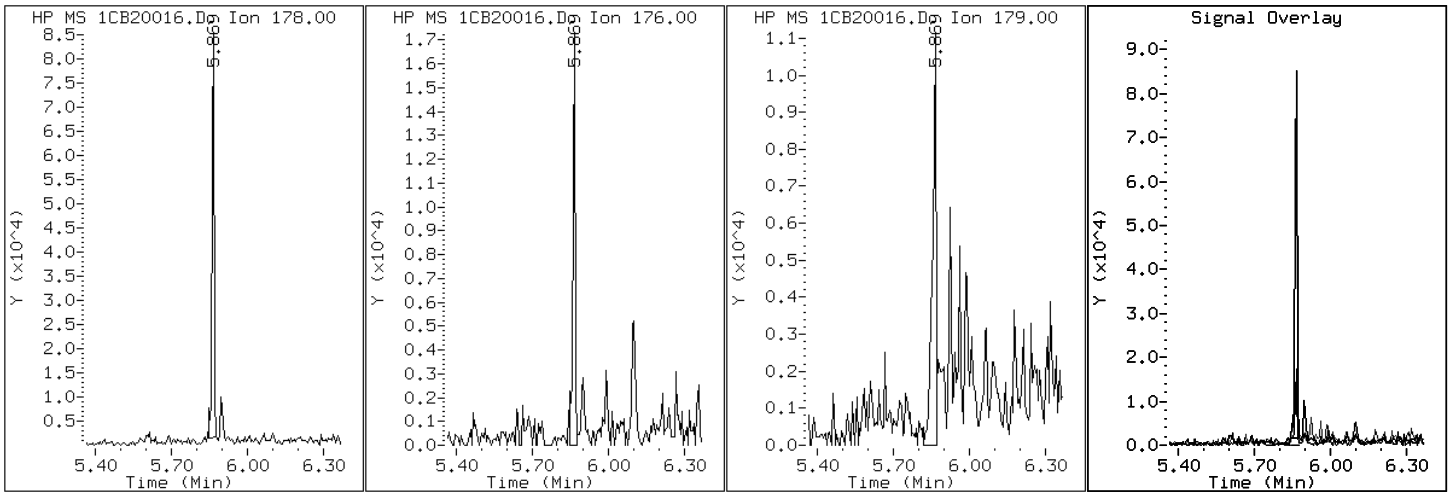
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

11 Phenanthrene



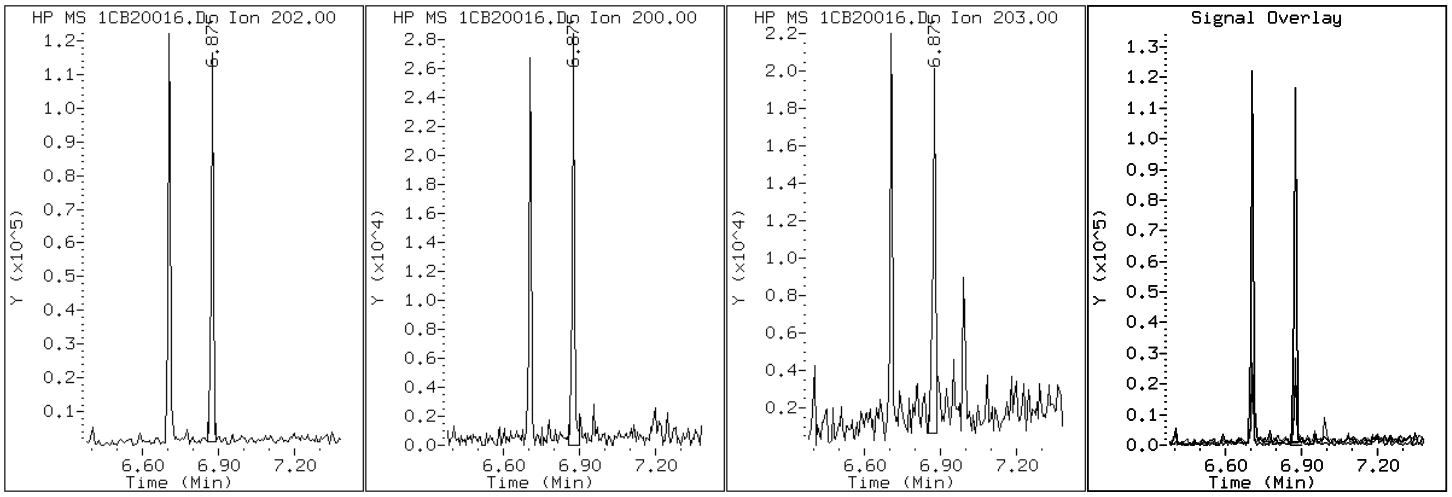
Data File: 1CB20016.D

Date: 20-FEB-2013 18:18

Client ID: CV0971B-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20016.D
Inj. Date and Time: 20-FEB-2013 18:18
Instrument ID: BSMC5973.i
Client ID: CV0971B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

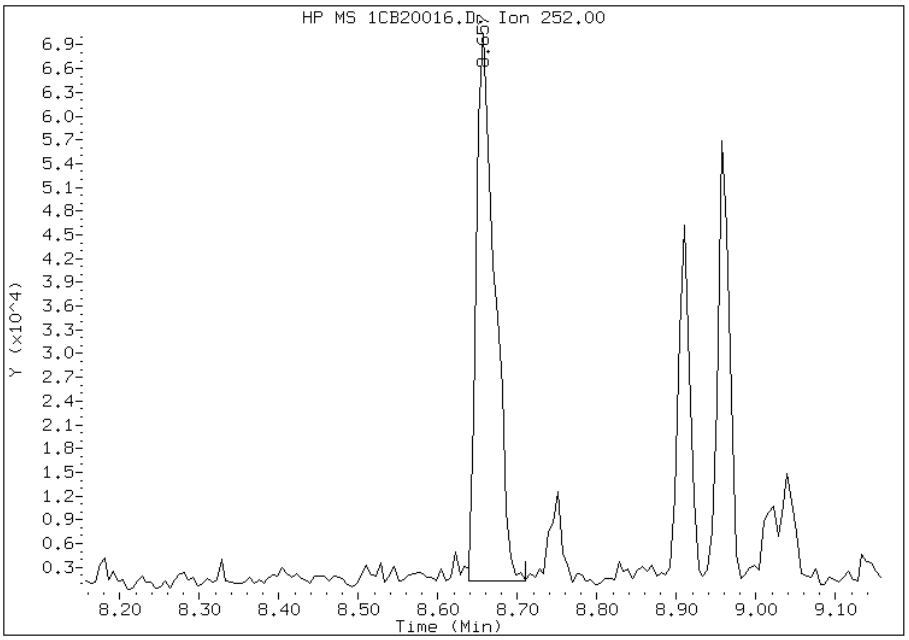
Processing Integration Results

RT: 8.66

Response: 111345

Amount: 2

Conc: 611



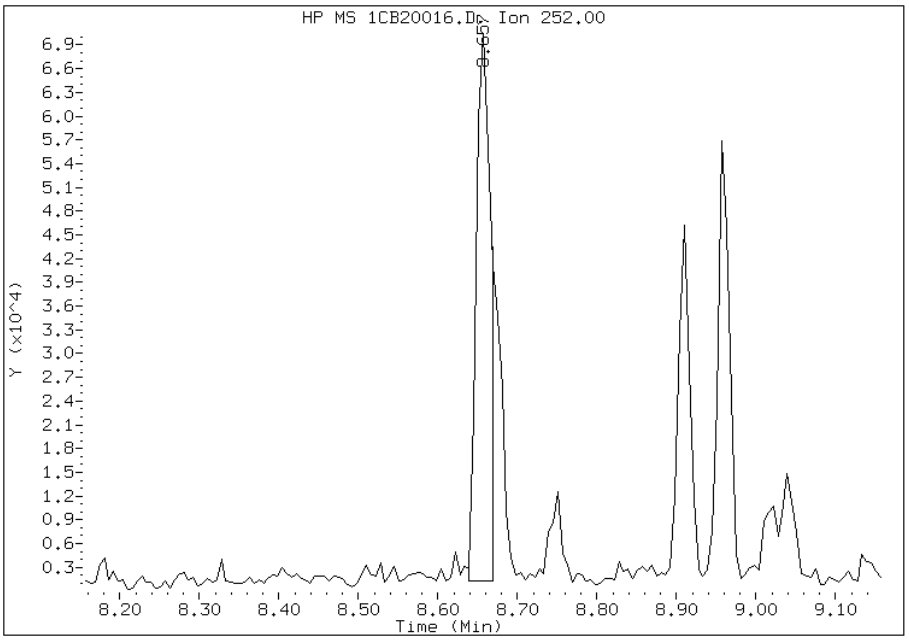
Manual Integration Results

RT: 8.66

Response: 86136

Amount: 1

Conc: 473



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20016.D
Inj. Date and Time: 20-FEB-2013 18:18
Instrument ID: BSMC5973.i
Client ID: CV0971B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

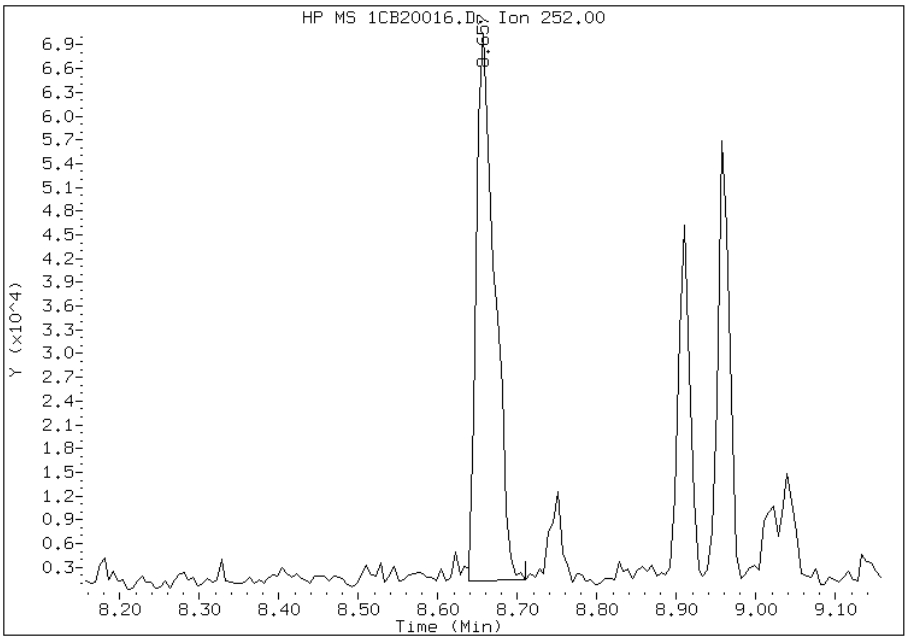
Processing Integration Results

RT: 8.66

Response: 111166

Amount: 1

Conc: 554



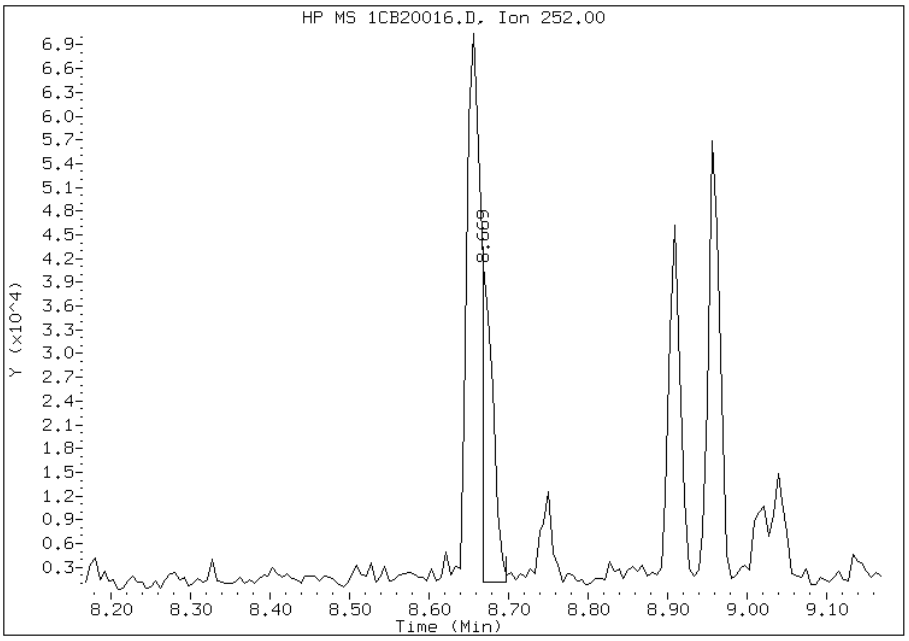
Manual Integration Results

RT: 8.67

Response: 39037

Amount: 0

Conc: 195



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20016.D
Inj. Date and Time: 20-FEB-2013 18:18
Instrument ID: BSMC5973.i
Client ID: CV0971B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

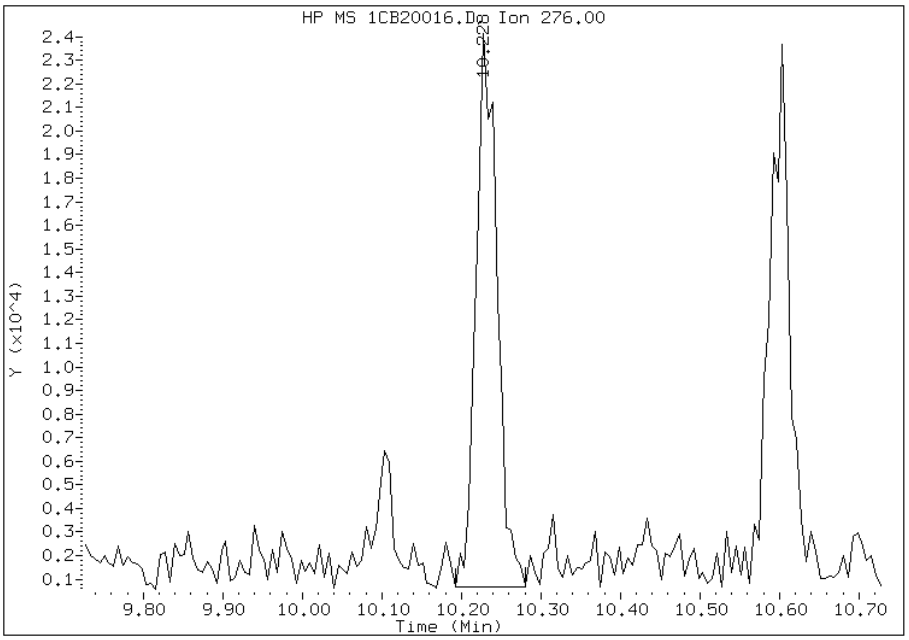
Processing Integration Results

RT: 10.23

Response: 43271

Amount: 1

Conc: 260



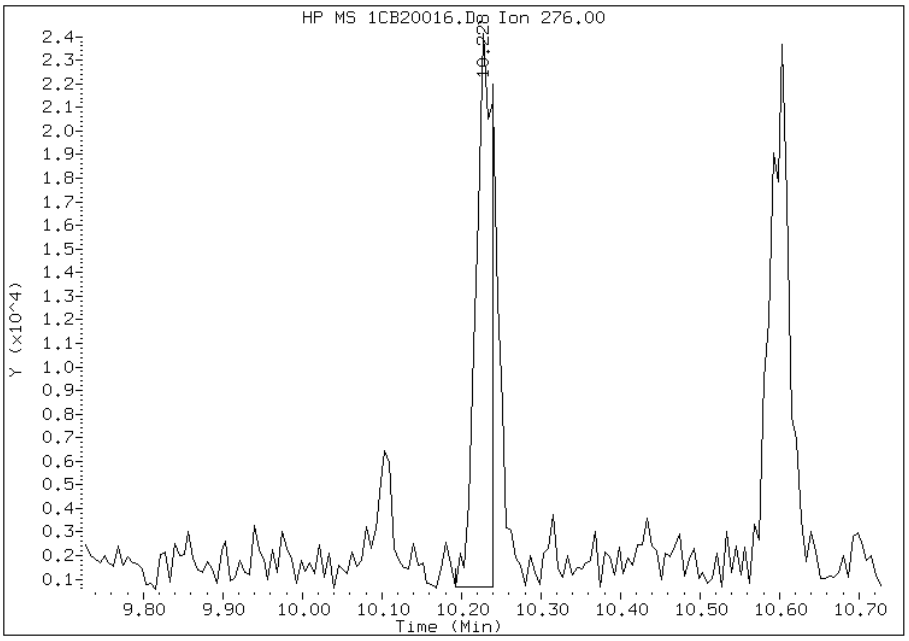
Manual Integration Results

RT: 10.23

Response: 33751

Amount: 1

Conc: 203



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:17
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971C-CS | Lab Sample ID: 680-87447-4

Matrix: Solid | Lab File ID: 1CB20017.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 08:54

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.20(g) | Date Analyzed: 02/20/2013 18:36

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

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

% Moisture: 40.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	33
208-96-8	Acenaphthylene	11	J	66	8.3
120-12-7	Anthracene	14		14	7.0
56-55-3	Benzo[a]anthracene	82		13	6.5
50-32-8	Benzo[a]pyrene	80		17	8.6
205-99-2	Benzo[b]fluoranthene	130		20	10
191-24-2	Benzo[g,h,i]perylene	72		33	7.3
207-08-9	Benzo[k]fluoranthene	62		13	6.0
218-01-9	Chrysene	83		15	7.5
53-70-3	Dibenz(a,h)anthracene	25	J	33	6.8
206-44-0	Fluoranthene	130		33	6.6
86-73-7	Fluorene	33	U	33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	53		33	12
90-12-0	1-Methylnaphthalene	24	J	66	7.3
91-57-6	2-Methylnaphthalene	28	J	66	12
91-20-3	Naphthalene	41	J	66	7.3
85-01-8	Phenanthrene	63		13	6.5
129-00-0	Pyrene	120		33	6.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20017.D
Lab Smp Id: 680-87447-A-4-A Client Smp ID: CV0971C-CS
Inj Date : 20-FEB-2013 18:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-4-a
Misc Info : 680-87447-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	40.519	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2119085	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1631626	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2998763	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	270680	6.16040	681.3755
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3175745	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2969555	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	21021	0.37435	41.4055
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	9278	0.25411	28.1058
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	7298	0.21977	24.3080
5 Acenaphthylene	152	4.810	4.810	(0.982)	6289	0.09688	10.7158
11 Phenanthrene	178	5.868	5.869	(1.003)	50940	0.56909	62.9448
12 Anthracene	178	5.898	5.904	(1.008)	9881	0.12252	13.5516
13 Carbazole	167	6.004	6.010	(1.026)	8956	0.12785	14.1408(Q)
15 Fluoranthene	202	6.704	6.710	(1.146)	99617	1.13894	125.9732

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.874	6.880	(0.882)	90317	1.06826	118.1554
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	65286	0.74548	82.4546
19 Chrysene	228	7.815	7.827	(1.002)	67845	0.74999	82.9535
20 Benzo(b)fluoranthene	252	8.656	8.662	(0.960)	86183	1.18377	130.9318(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	44876	0.55951	61.8852(QM)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	50288	0.72590	80.2885
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	32163	0.48337	53.4636(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	14041	0.22377	24.7502
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	44076	0.65211	72.1266(M)

QC Flag Legend

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

Data File: 1CB20017.D

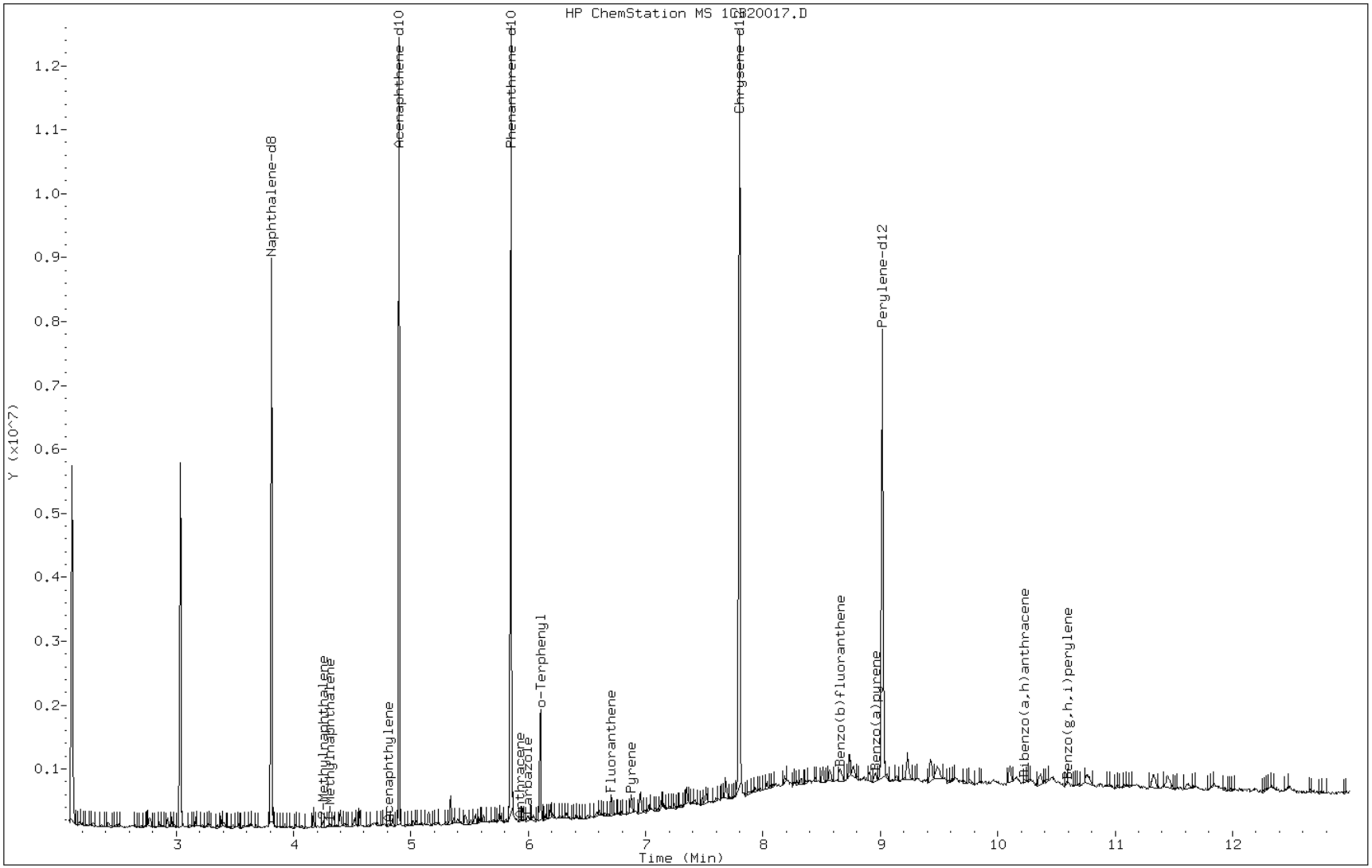
Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a

Operator: SCC



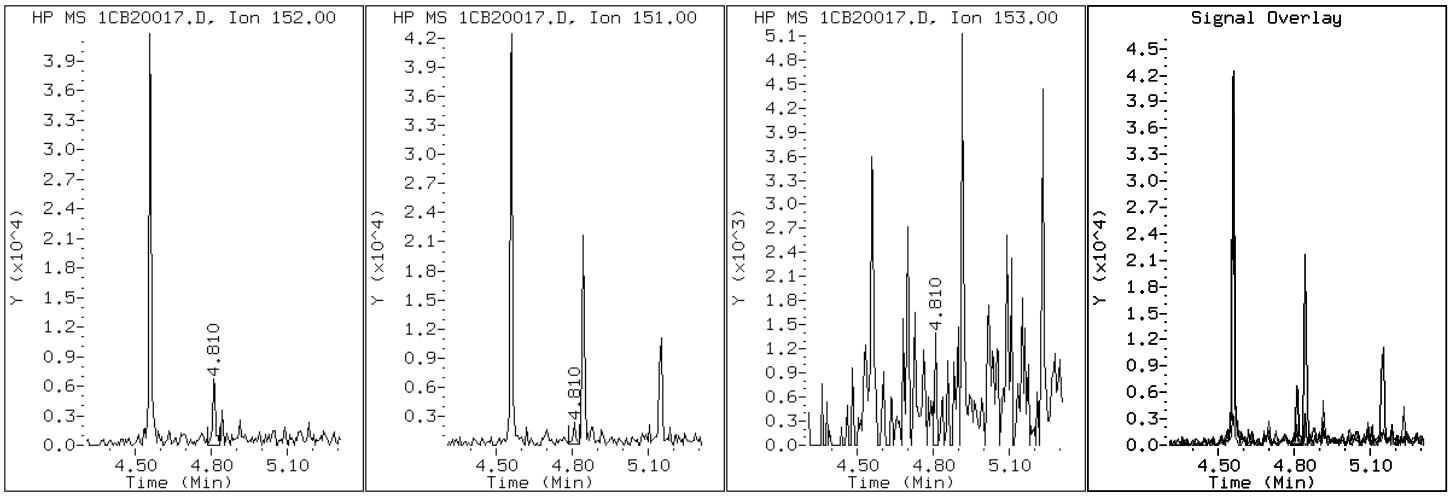
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

5 Acenaphthylene



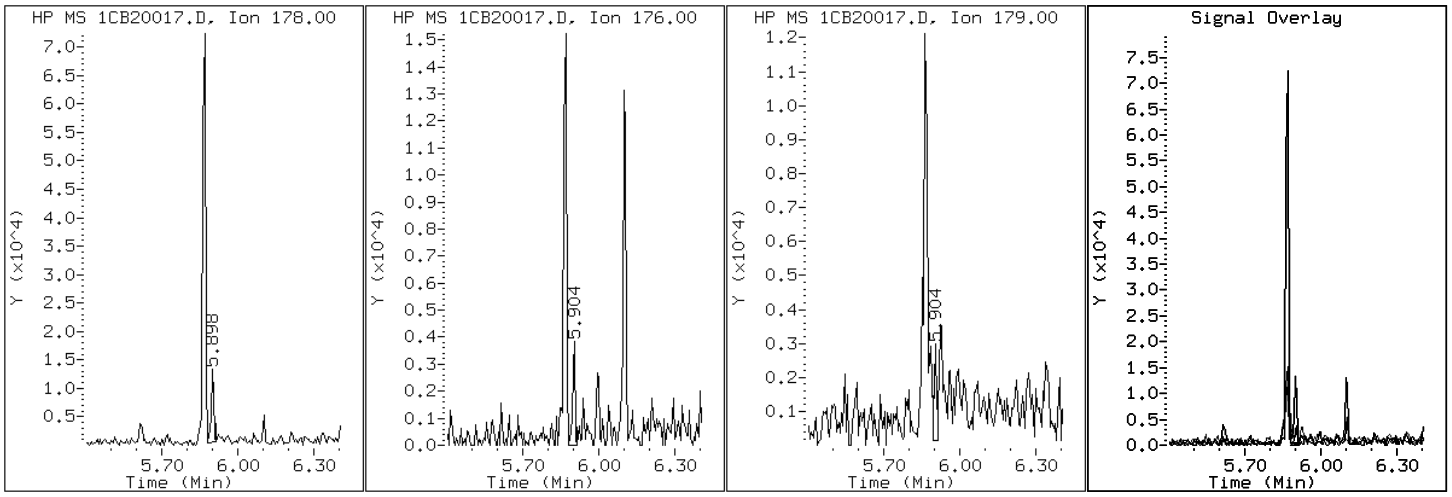
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

12 Anthracene



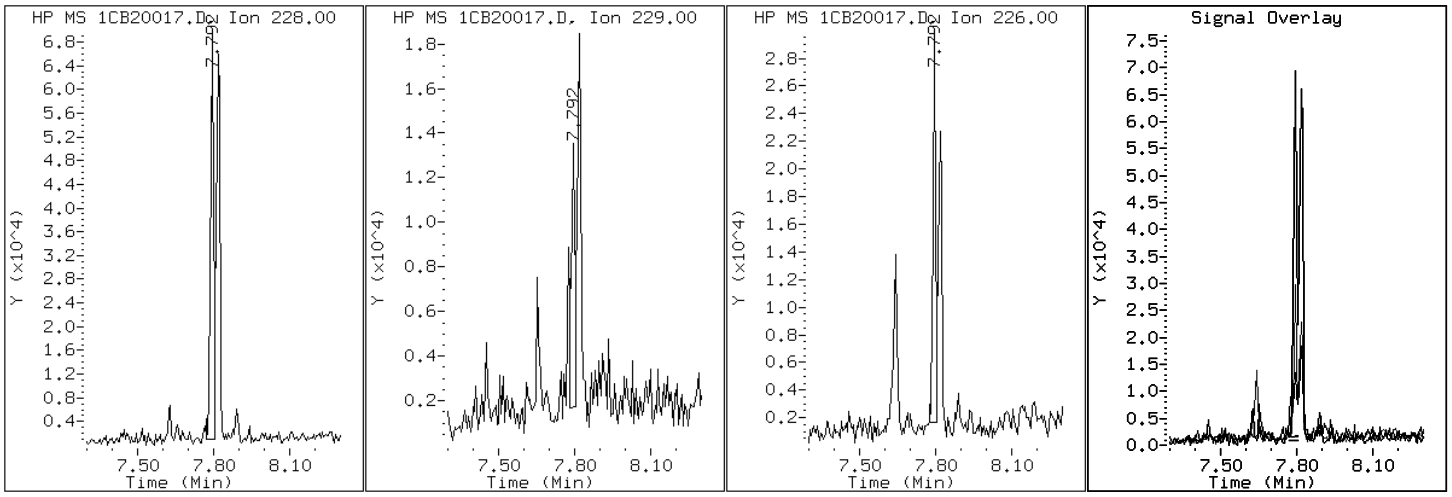
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

17 Benzo(a)anthracene



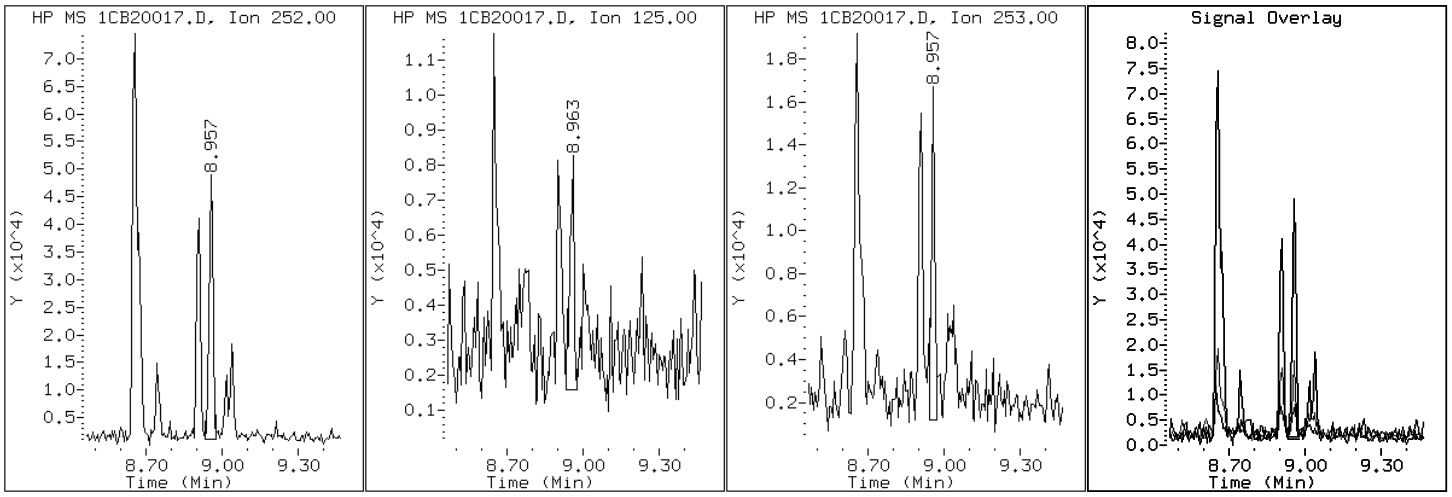
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

22 Benzo(a)pyrene



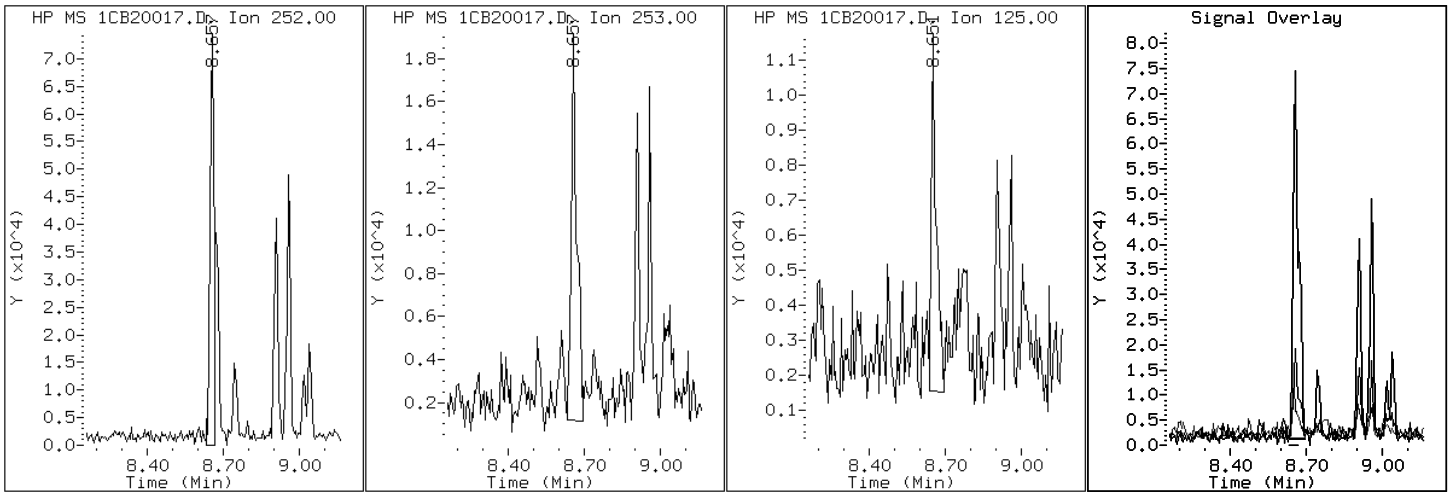
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

20 Benzo(b)fluoranthene



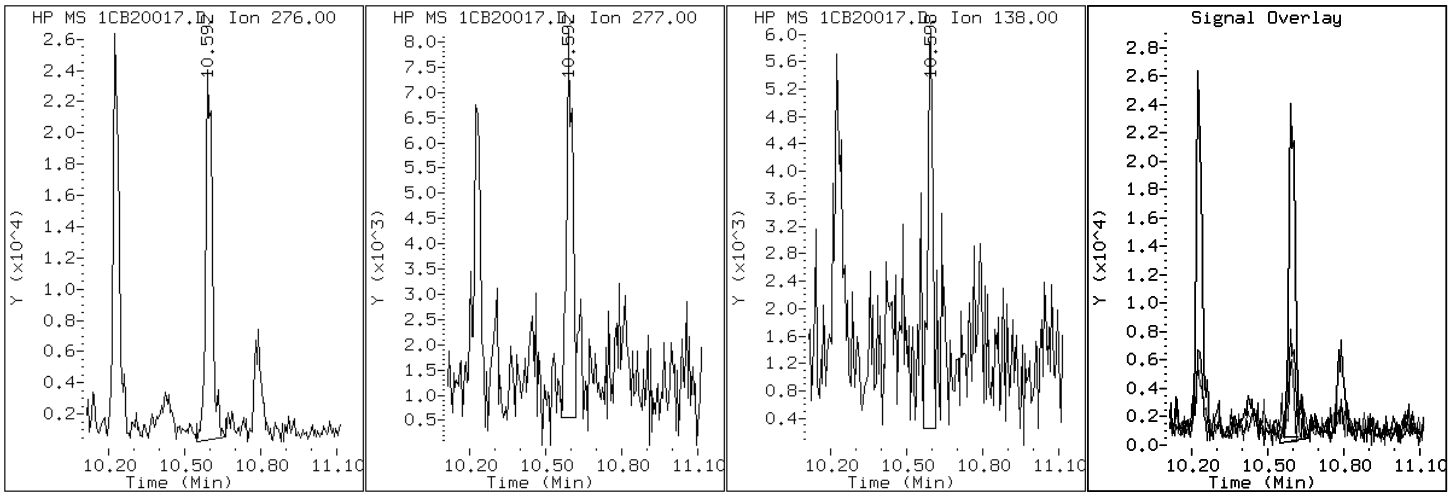
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

26 Benzo(g,h,i)perylene



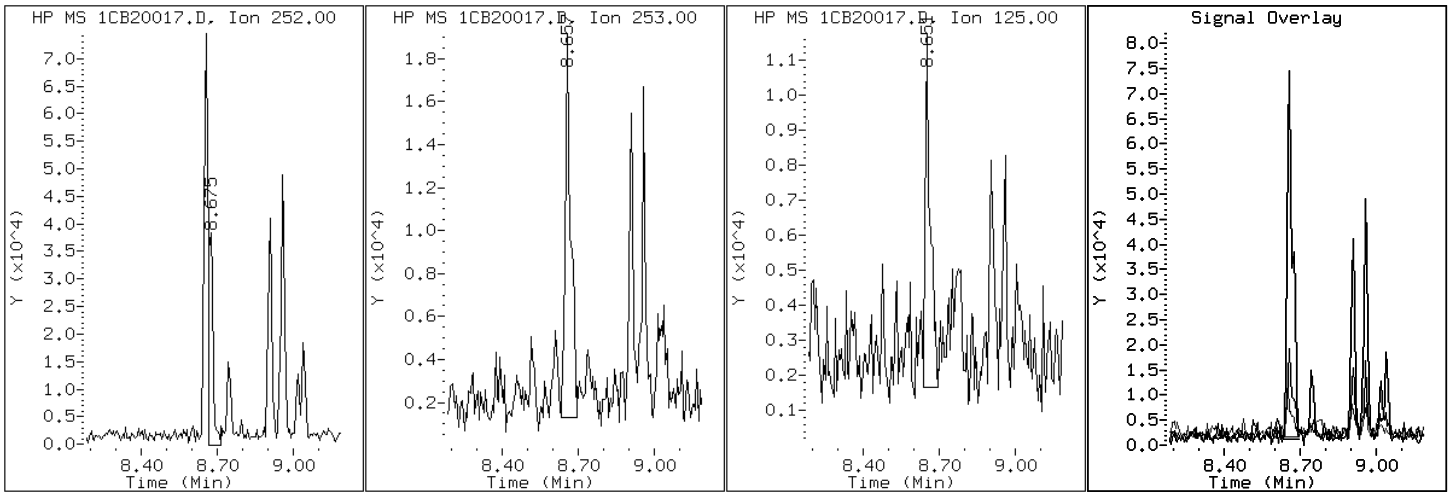
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

21 Benzo(k)fluoranthene



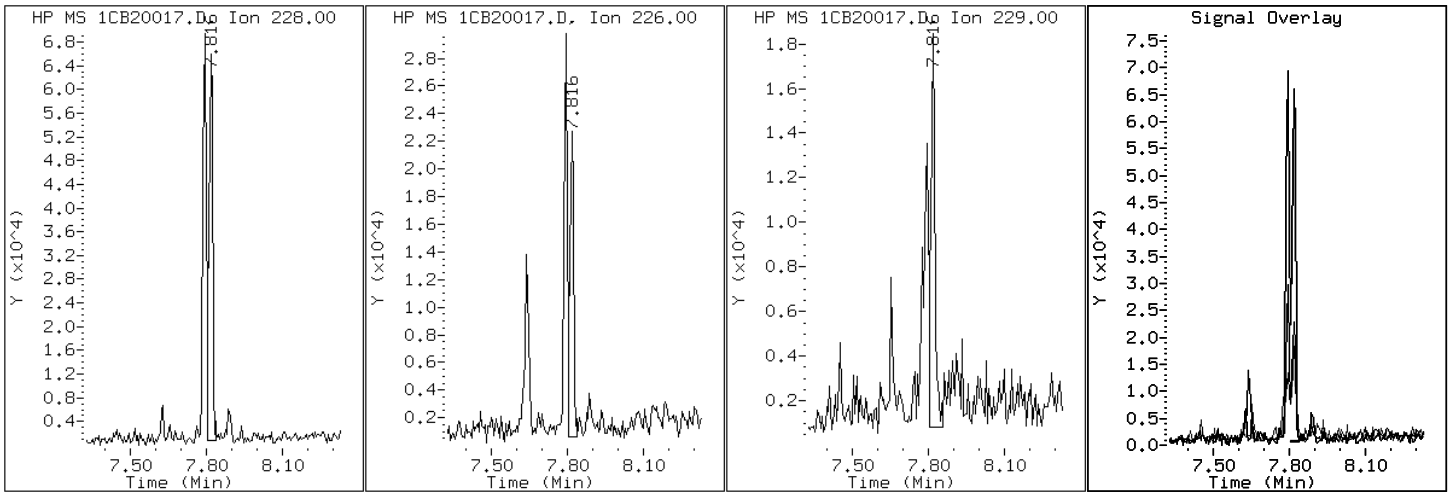
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

19 Chrysene



Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

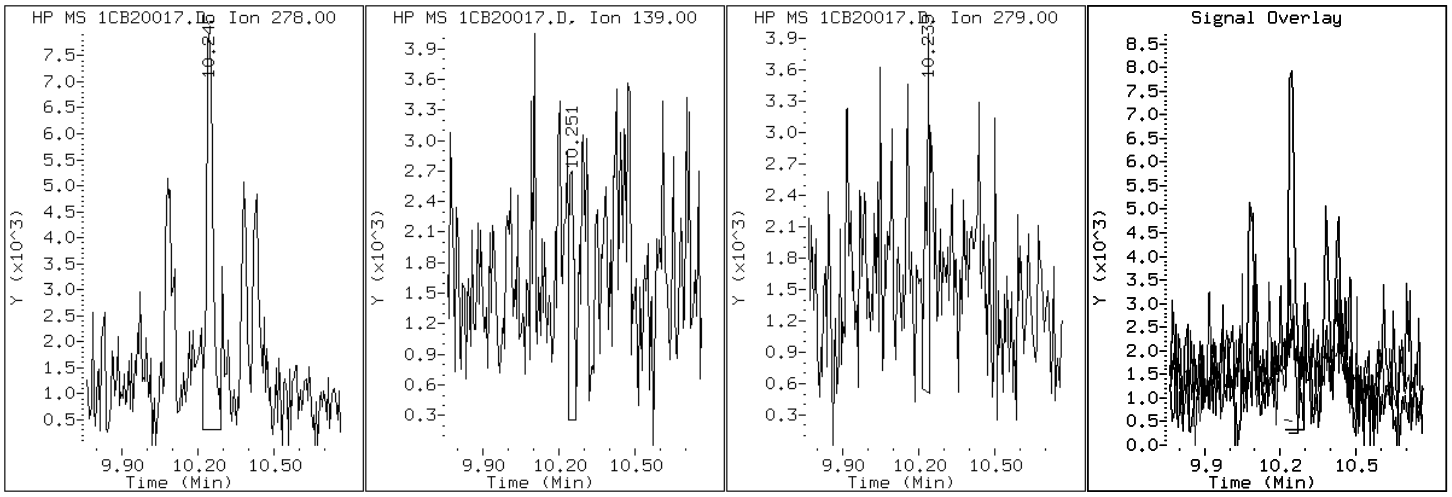
Client ID: CV0971C-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a

Operator: SCC

25 Dibenzo(a,h)anthracene



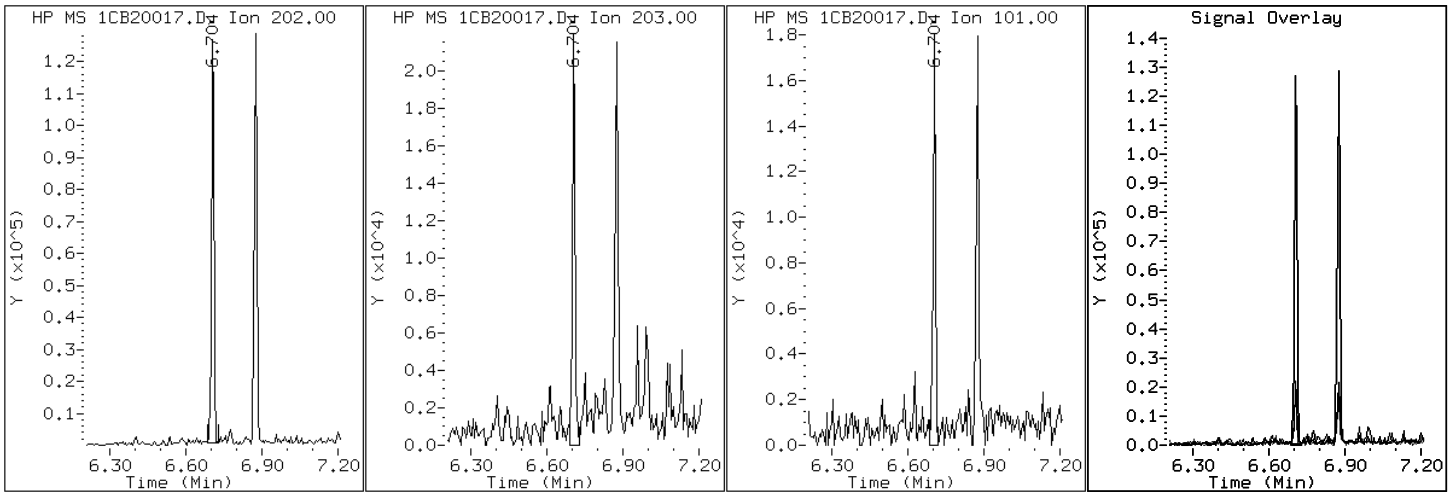
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

15 Fluoranthene



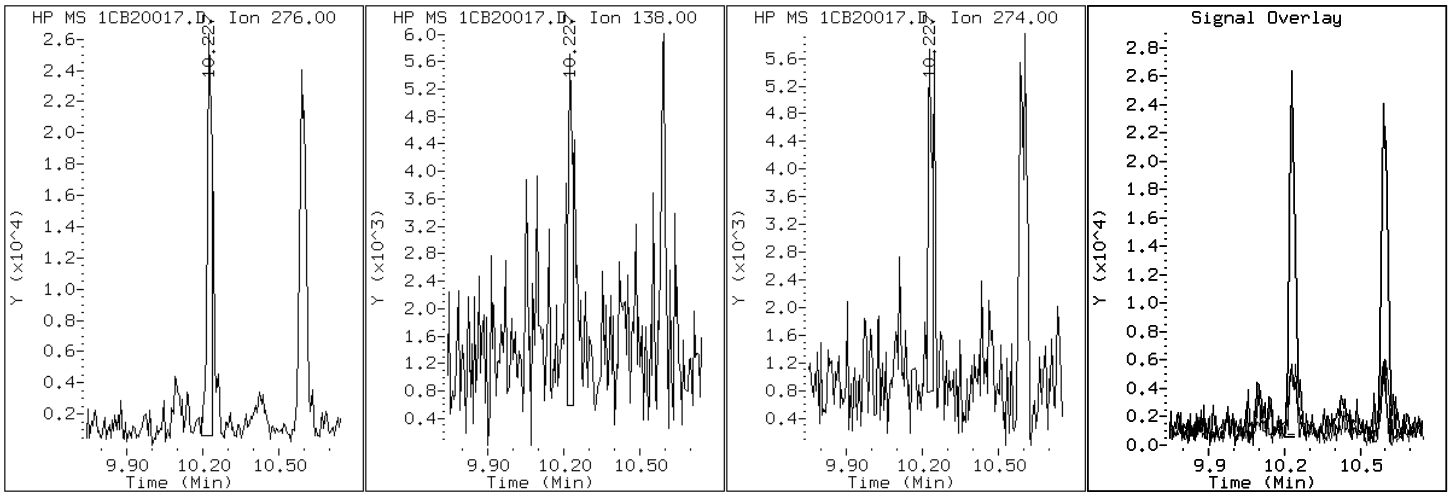
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

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



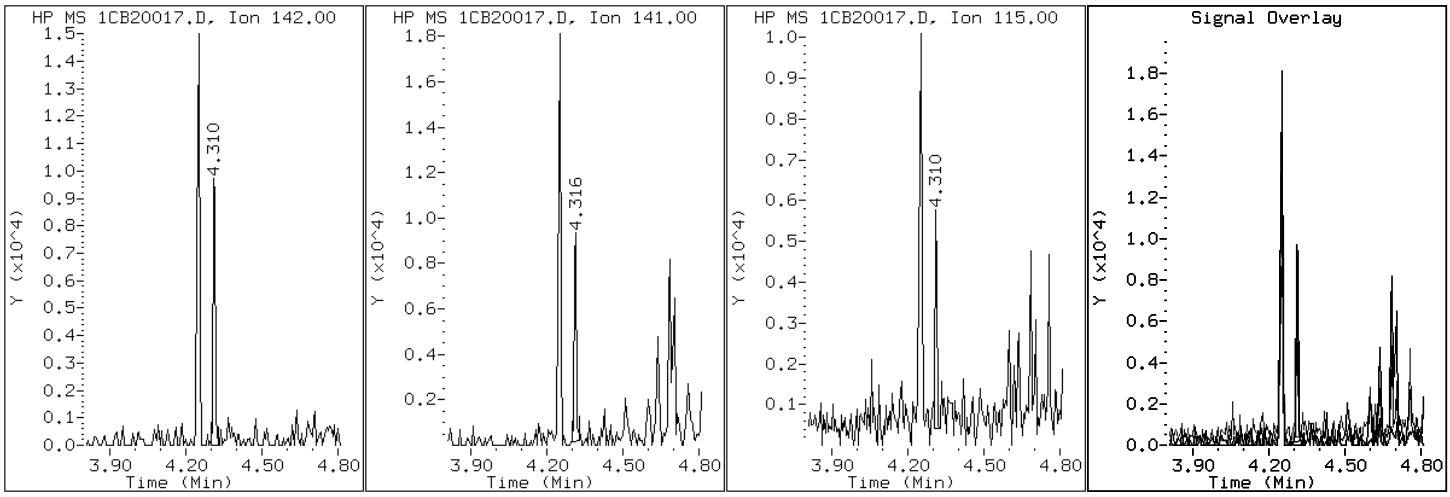
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

4 1-Methylnaphthalene



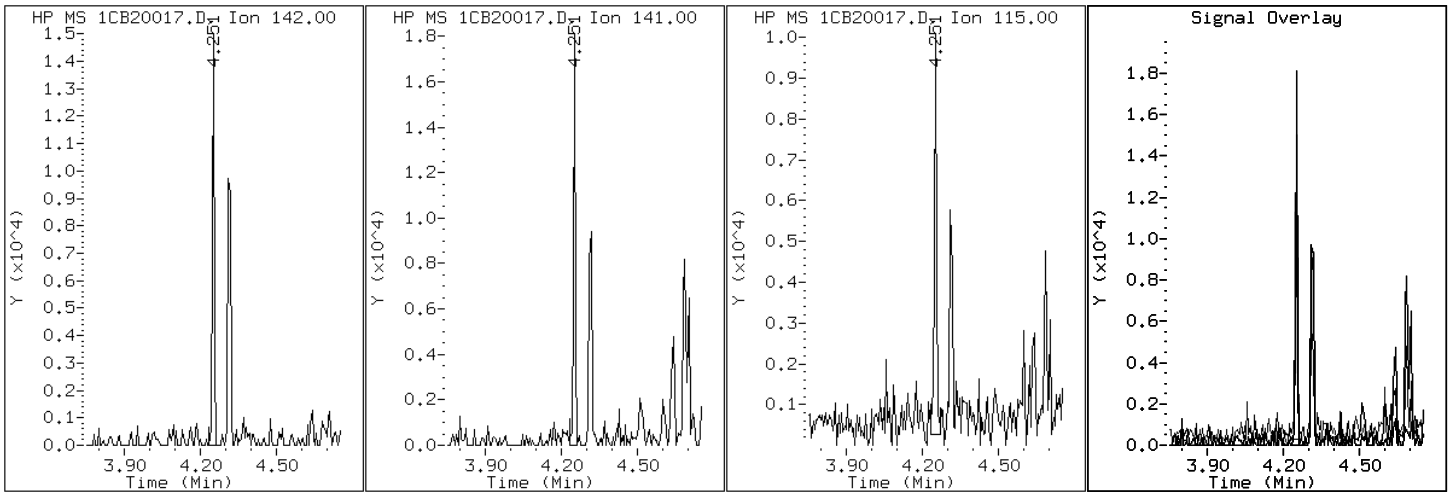
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

3 2-Methylnaphthalene



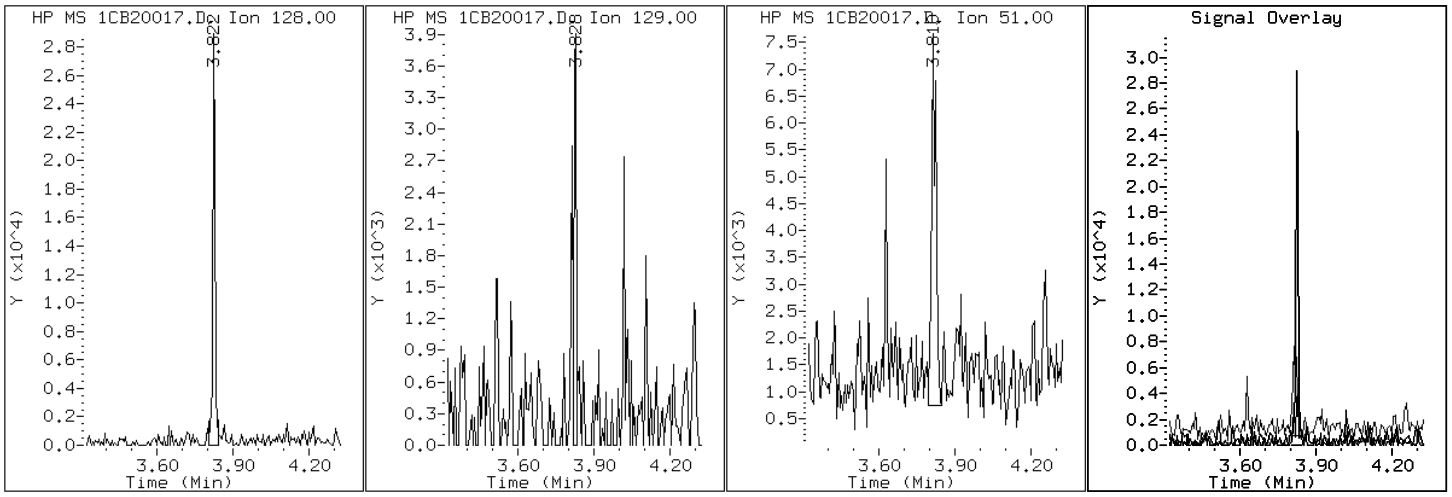
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

2 Naphthalene



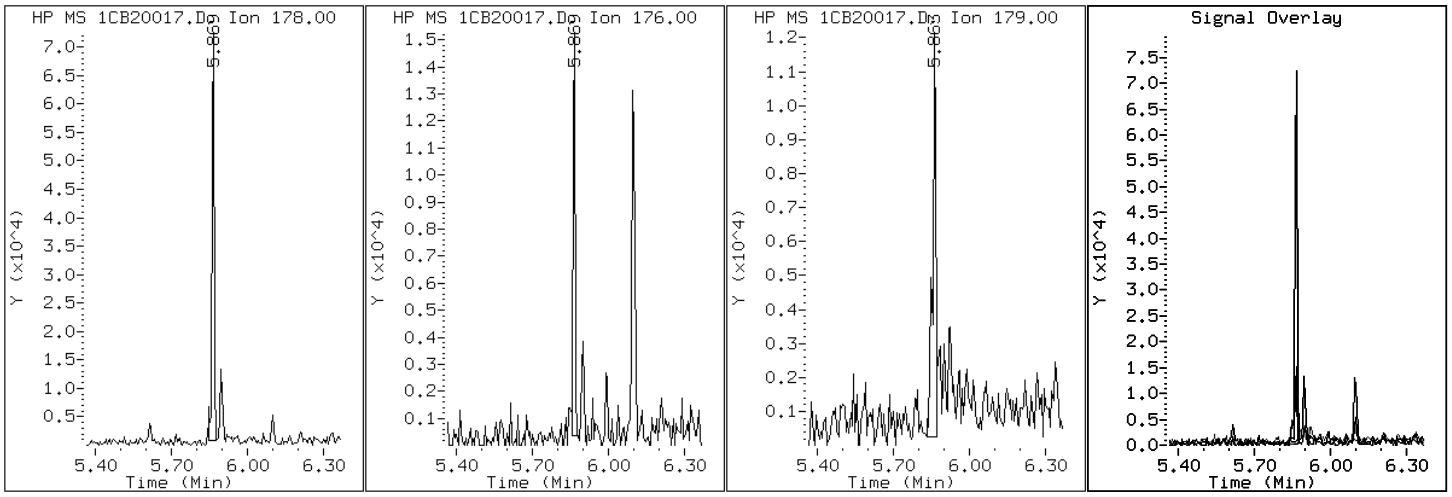
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

11 Phenanthrene



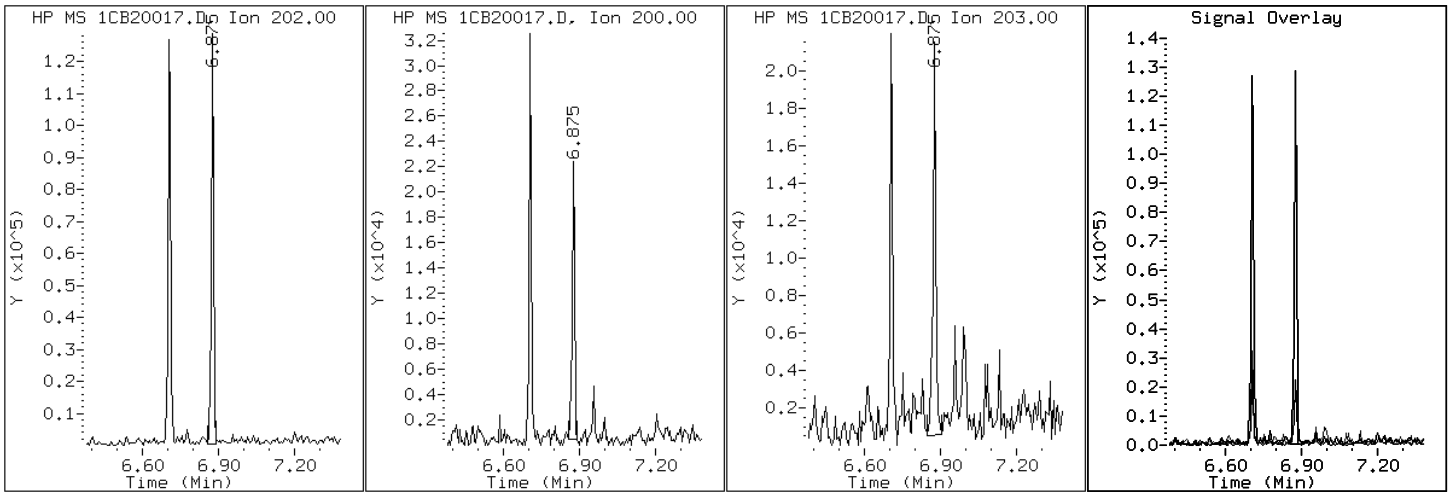
Data File: 1CB20017.D

Date: 20-FEB-2013 18:36

Client ID: CV0971C-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-4-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20017.D
Inj. Date and Time: 20-FEB-2013 18:36
Instrument ID: BSMC5973.i
Client ID: CV0971C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

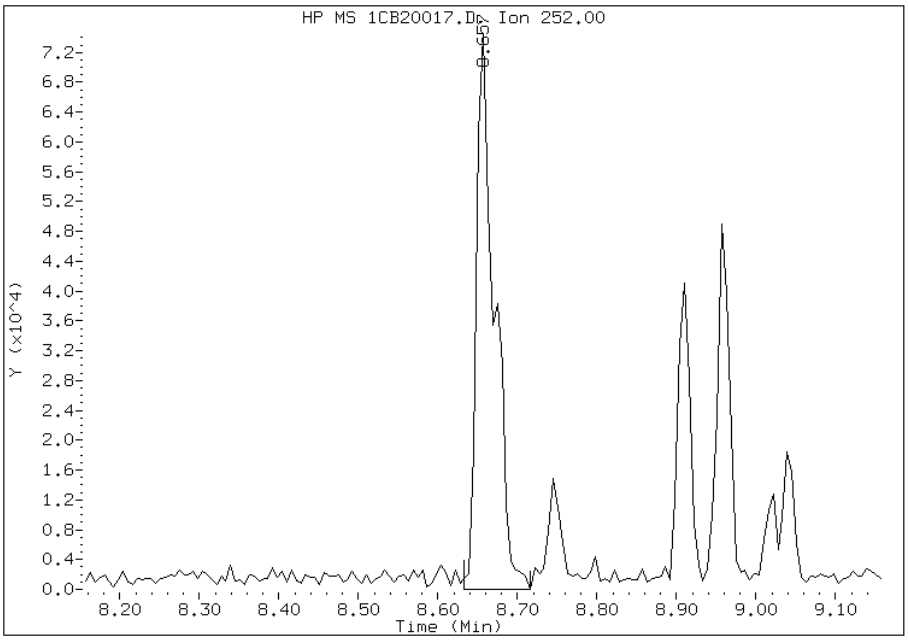
Processing Integration Results

RT: 8.66

Response: 117974

Amount: 2

Conc: 179



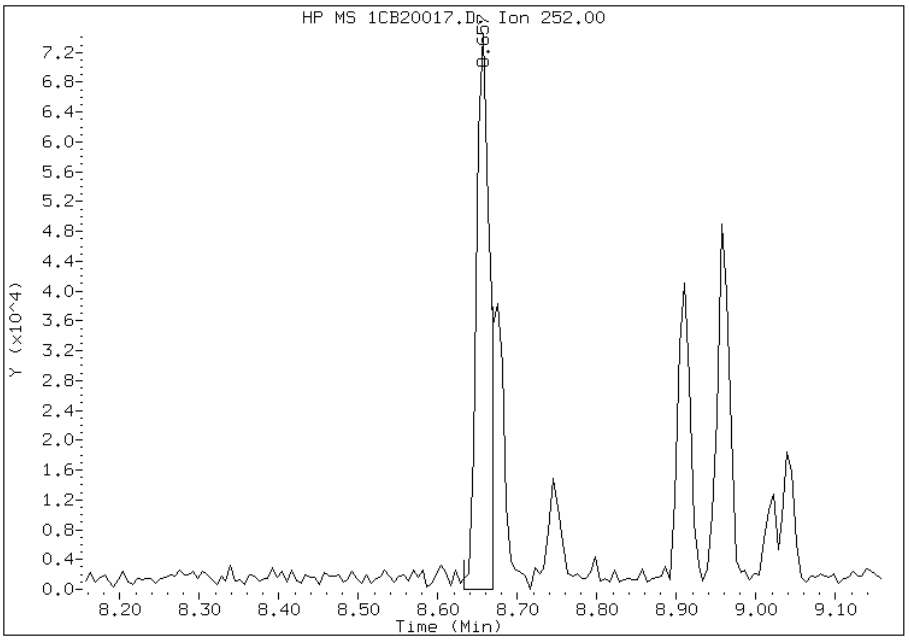
Manual Integration Results

RT: 8.66

Response: 86183

Amount: 1

Conc: 131



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:17
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20017.D
Inj. Date and Time: 20-FEB-2013 18:36
Instrument ID: BSMC5973.i
Client ID: CV0971C-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/21/2013

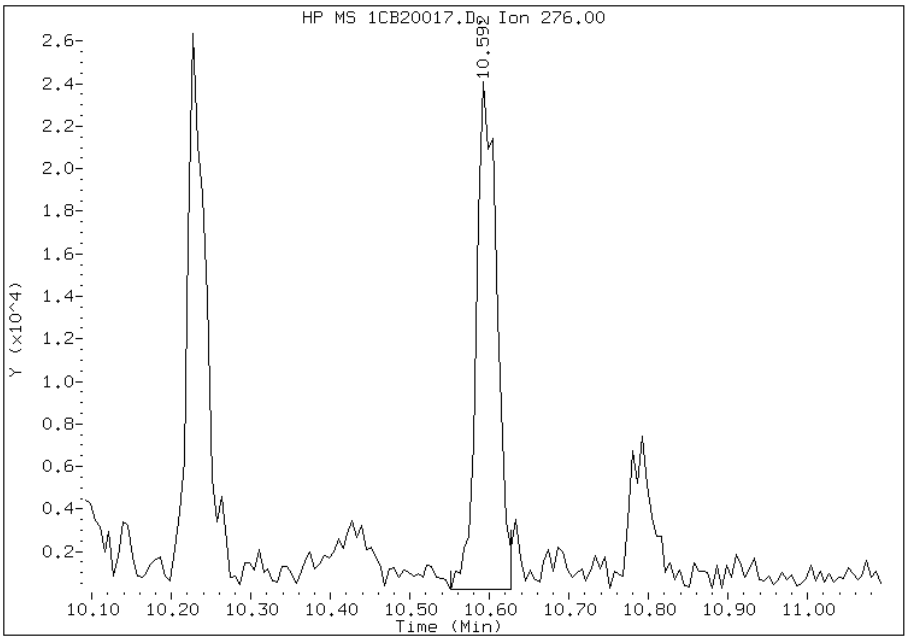
Processing Integration Results

RT: 10.59

Response: 42762

Amount: 1

Conc: 70



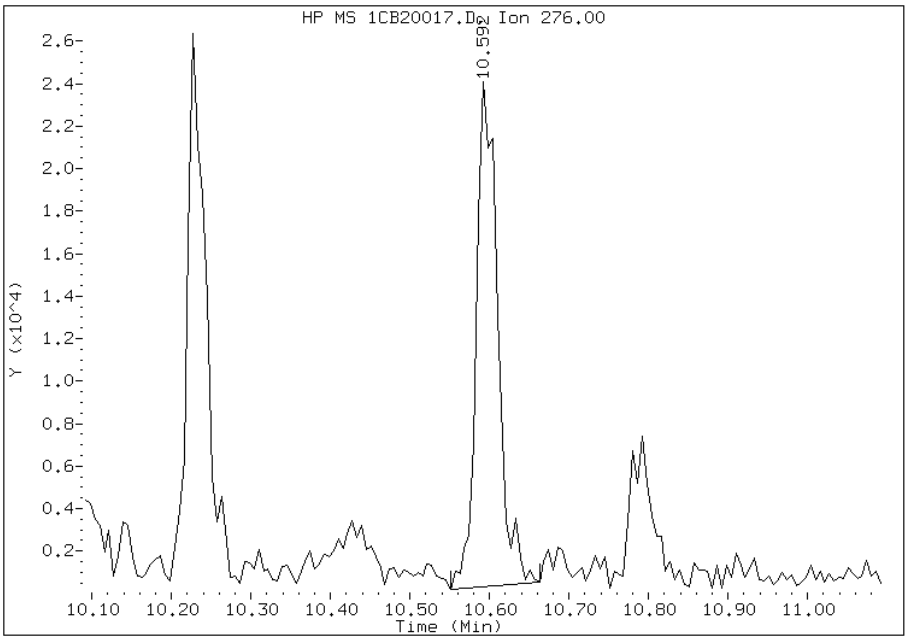
Manual Integration Results

RT: 10.59

Response: 44076

Amount: 1

Conc: 72



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20017.D
Inj. Date and Time: 20-FEB-2013 18:36
Instrument ID: BSMC5973.i
Client ID: CV0971C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

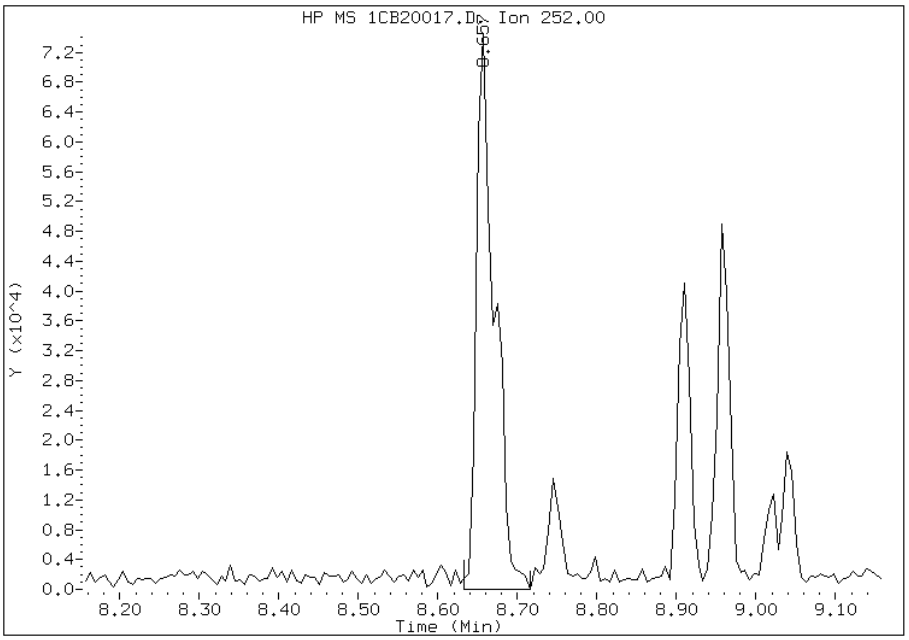
Processing Integration Results

RT: 8.66

Response: 117974

Amount: 1

Conc: 163



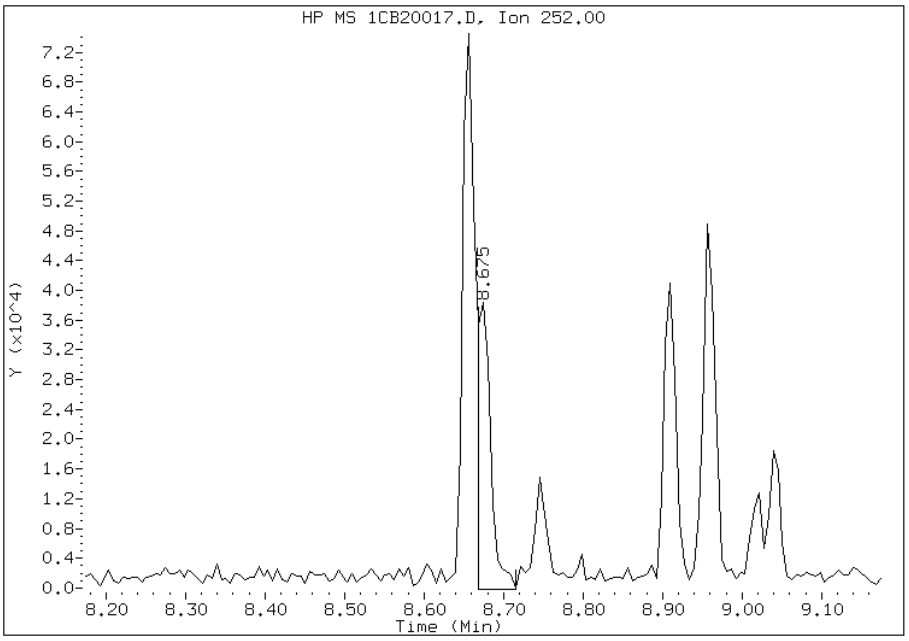
Manual Integration Results

RT: 8.67

Response: 44876

Amount: 1

Conc: 62



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20017.D
Inj. Date and Time: 20-FEB-2013 18:36
Instrument ID: BSMC5973.i
Client ID: CV0971C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

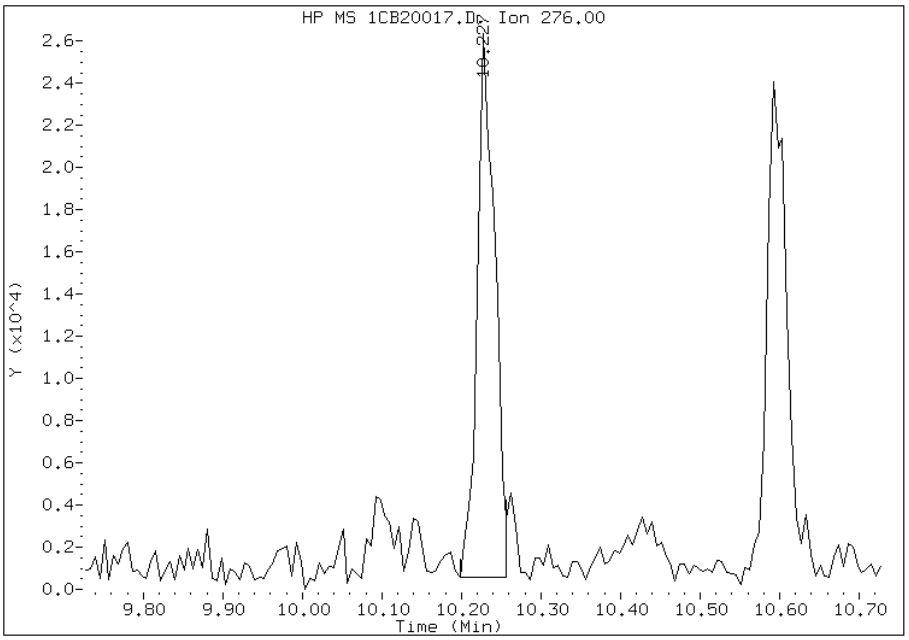
Processing Integration Results

RT: 10.23

Response: 39587

Amount: 1

Conc: 66



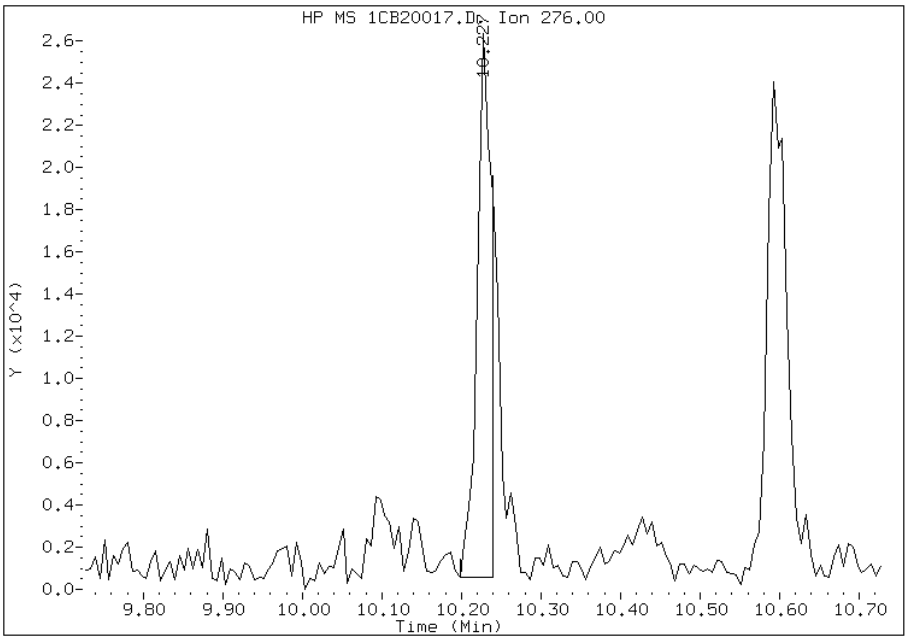
Manual Integration Results

RT: 10.23

Response: 32163

Amount: 0

Conc: 53



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971D-CS | Lab Sample ID: 680-87447-5

Matrix: Solid | Lab File ID: 1CB20018.D

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

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.03(g) | Date Analyzed: 02/20/2013 18:54

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

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

% Moisture: 33.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	21	J	60	7.6
120-12-7	Anthracene	42		13	6.3
56-55-3	Benzo[a]anthracene	200		12	5.9
50-32-8	Benzo[a]pyrene	200		16	7.9
205-99-2	Benzo[b]fluoranthene	300		18	9.2
191-24-2	Benzo[g,h,i]perylene	130		30	6.6
207-08-9	Benzo[k]fluoranthene	110		12	5.4
218-01-9	Chrysene	190		14	6.8
53-70-3	Dibenz(a,h)anthracene	39		30	6.2
206-44-0	Fluoranthene	380		30	6.0
86-73-7	Fluorene	19	J	30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	140		30	11
90-12-0	1-Methylnaphthalene	34	J	60	6.6
91-57-6	2-Methylnaphthalene	40	J	60	11
91-20-3	Naphthalene	50	J	60	6.6
85-01-8	Phenanthrene	220		12	5.9
129-00-0	Pyrene	330		30	5.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20018.D
Lab Smp Id: 680-87447-A-5-A Client Smp ID: CV0971D-CS
Inj Date : 20-FEB-2013 18:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-5-a
Misc Info : 680-87447-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	33.932	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2023177	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1577249	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2890147	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	328226	7.75082	780.5417
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3081418	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2857267	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	26726	0.49851	50.2023
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	13986	0.40121	40.4036
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	10681	0.33689	33.9267
5 Acenaphthylene	152	4.810	4.810	(0.982)	13036	0.20775	20.9209
9 Fluorene	166	5.239	5.239	(1.070)	9447	0.18700	18.8315
11 Phenanthrene	178	5.868	5.869	(1.003)	187154	2.16943	218.4706
12 Anthracene	178	5.898	5.904	(1.008)	32494	0.41806	42.1005
13 Carbazole	167	6.004	6.010	(1.026)	26996	0.39986	40.2674

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.710	(1.146)	315443	3.74206	376.8413
16 Pyrene	202	6.874	6.880	(0.882)	266513	3.24878	327.1661
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	170664	2.00842	202.2564
19 Chrysene	228	7.815	7.827	(1.002)	164684	1.87623	188.9443
20 Benzo(b)fluoranthene	252	8.656	8.662	(0.960)	210119	2.99952	302.0648(M)
21 Benzo(k)fluoranthene	252	8.668	8.686	(0.962)	83007	1.07560	108.3174(QM)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	129275	1.93940	195.3057
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	85979	1.34294	135.2400(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	23637	0.39150	39.4262
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	86913	1.33641	134.5826(M)

QC Flag Legend

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

Data File: 1CB20018.D

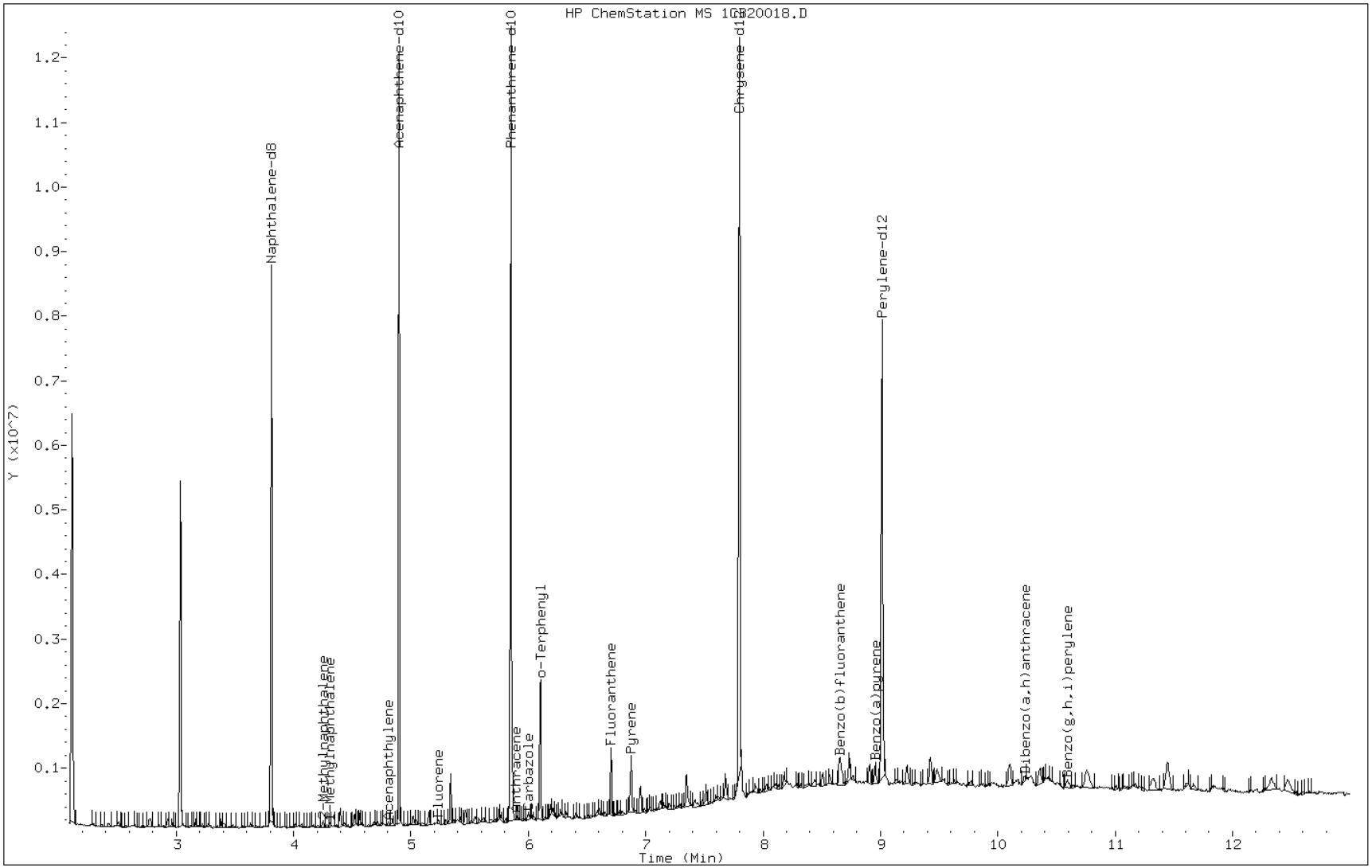
Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a

Operator: SCC



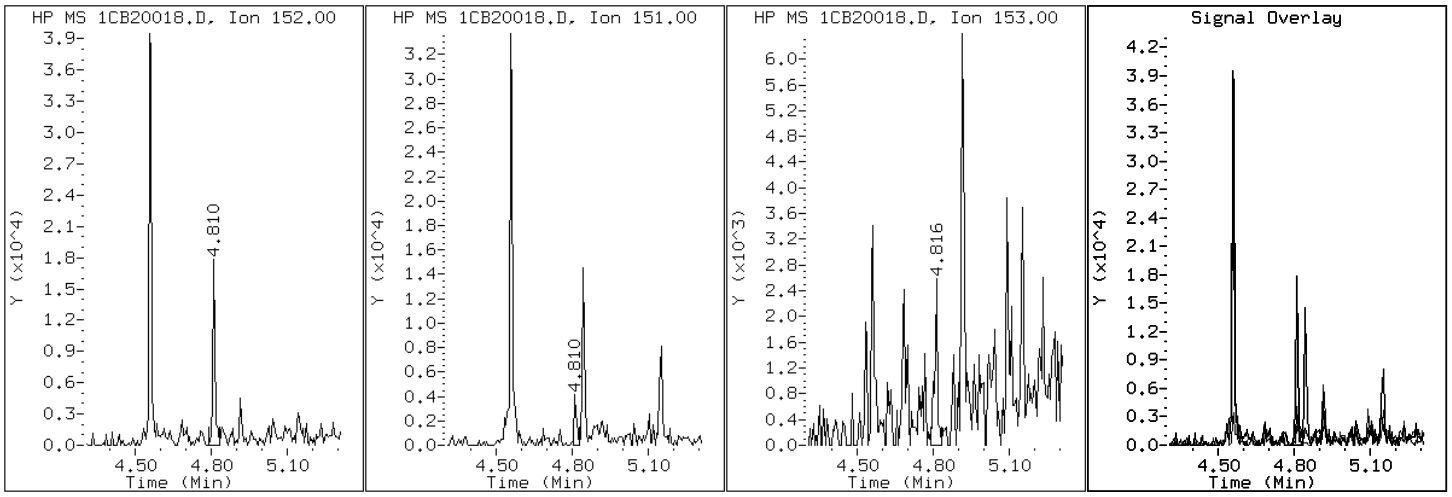
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

5 Acenaphthylene



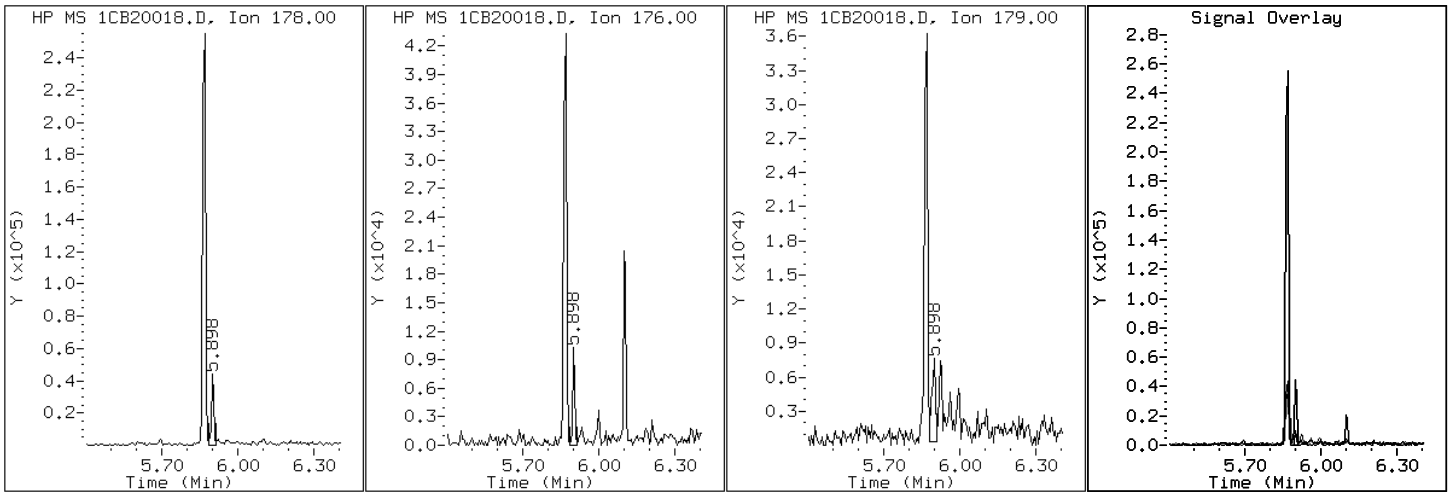
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

12 Anthracene



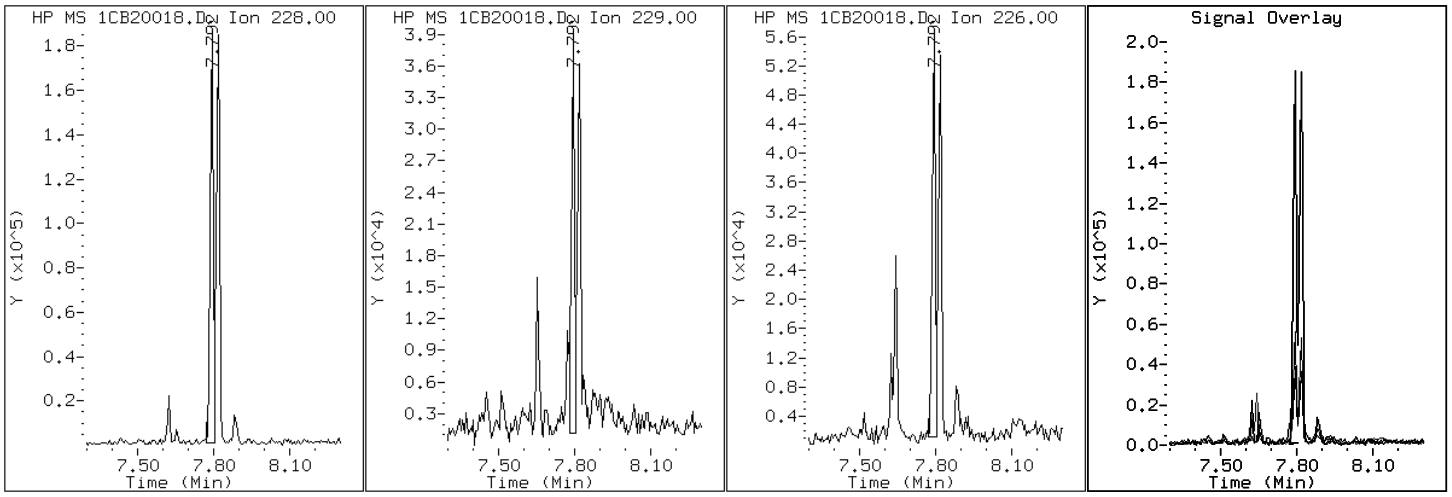
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

17 Benzo(a)anthracene



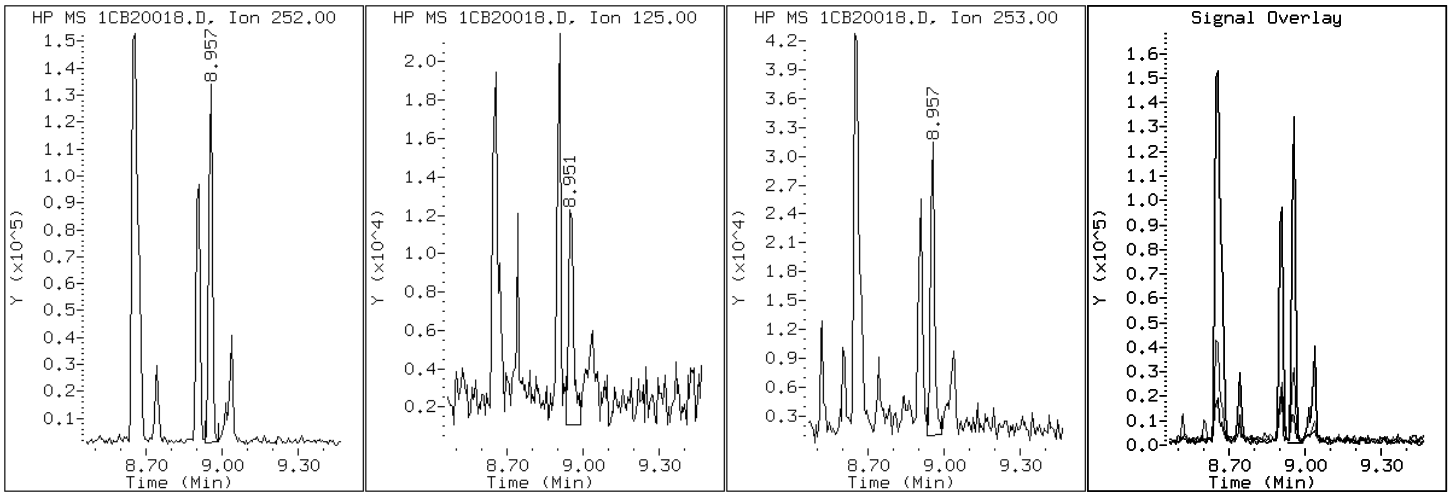
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

22 Benzo(a)pyrene



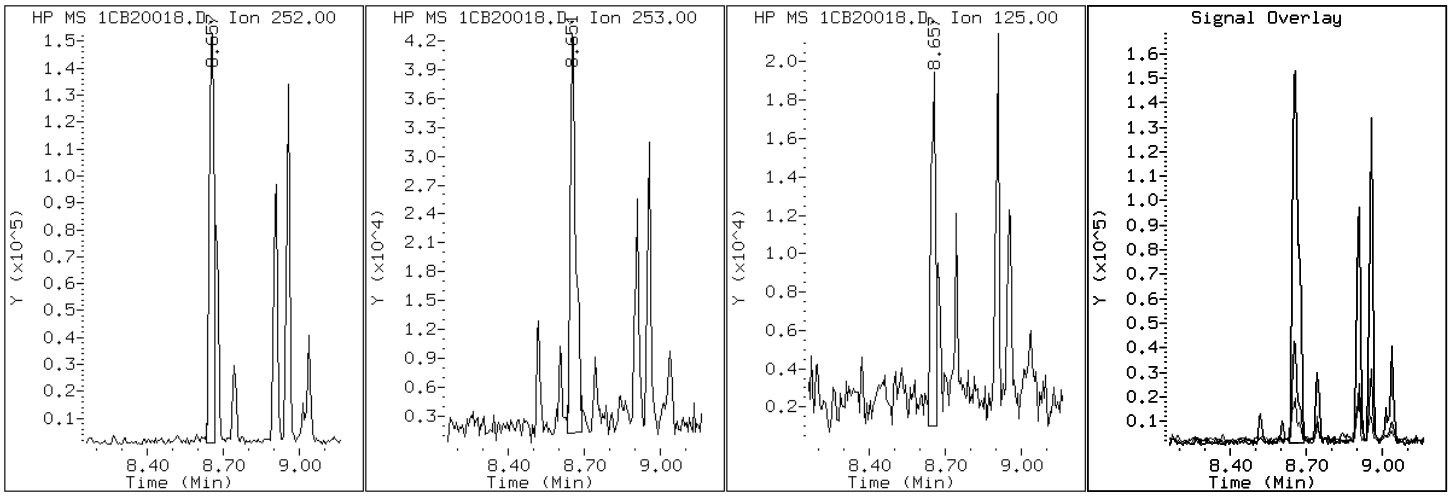
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

20 Benzo(b)fluoranthene



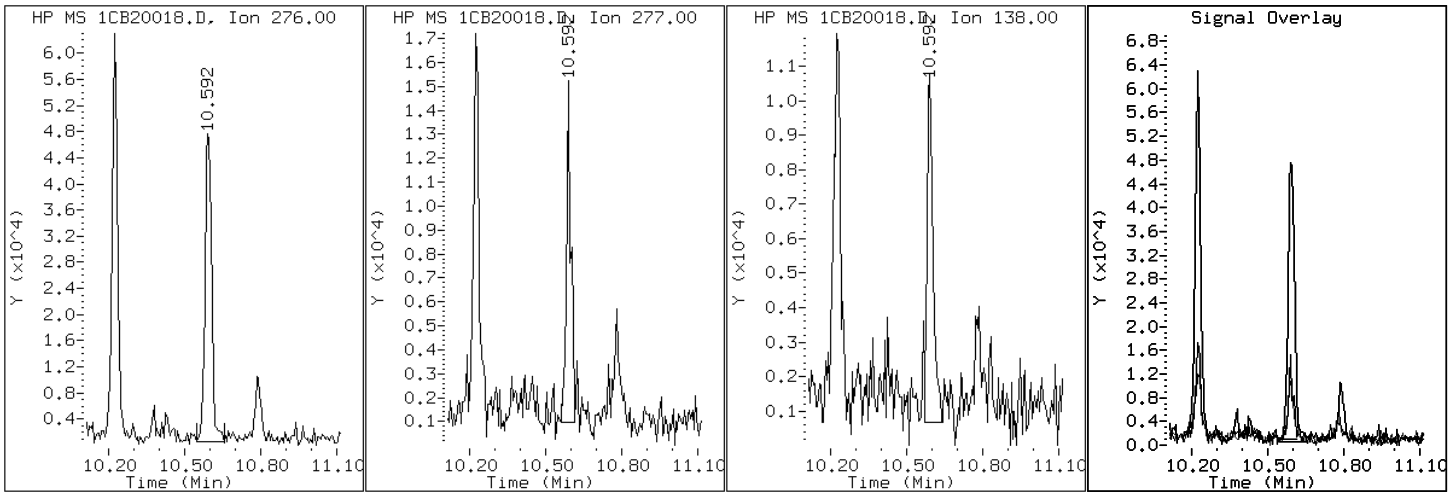
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

26 Benzo(g,h,i)perylene



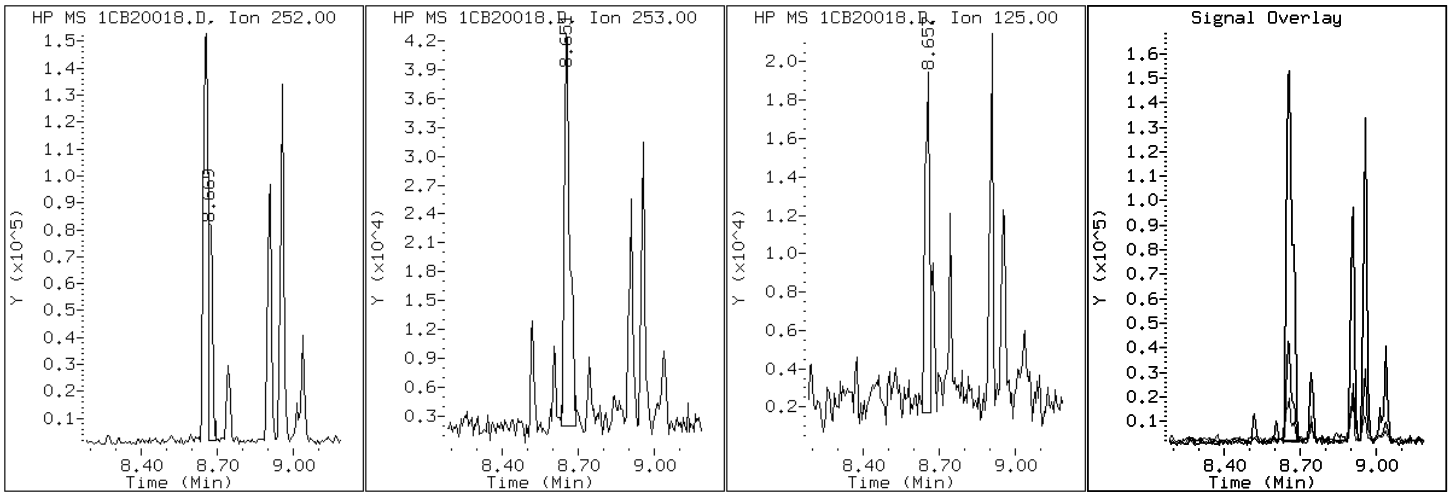
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



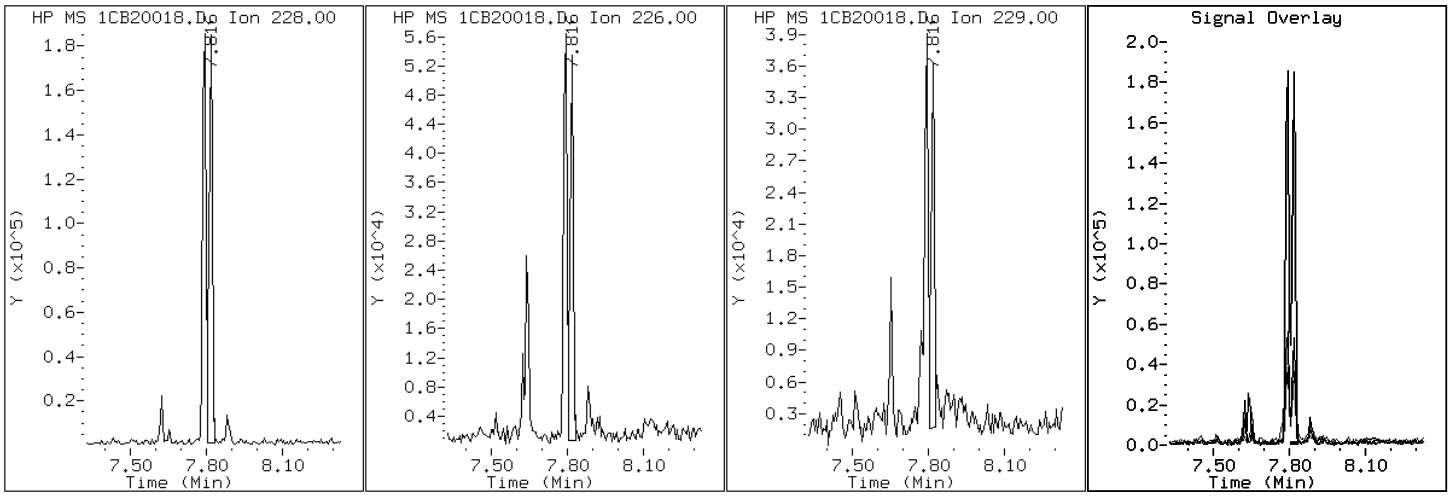
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

19 Chrysene



Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

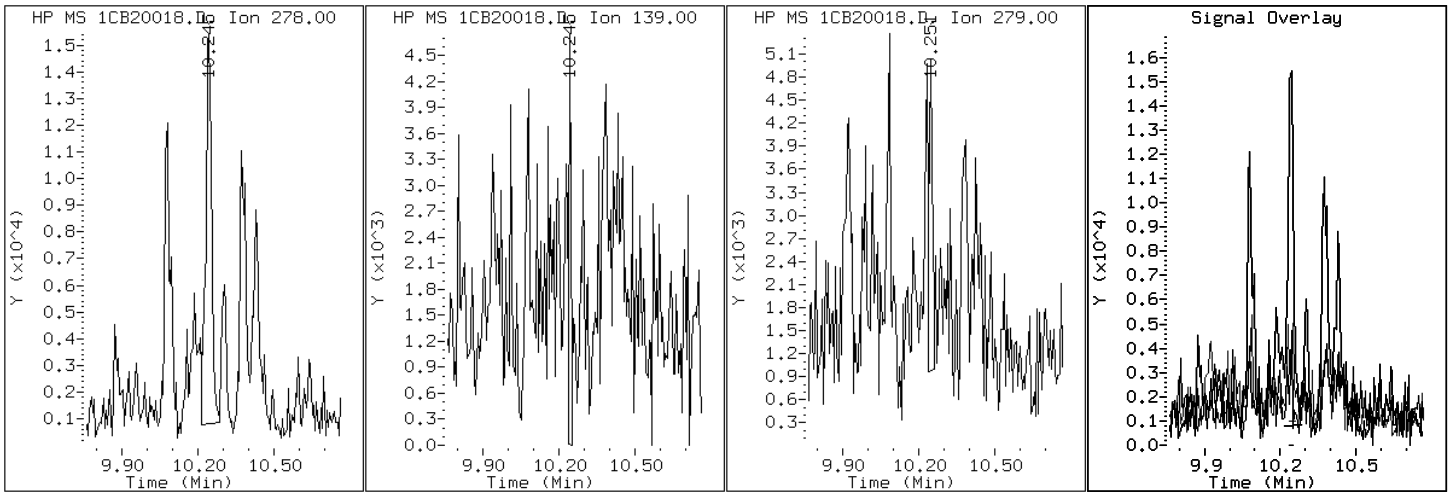
Client ID: CV0971D-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a

Operator: SCC

25 Dibenzo(a,h)anthracene



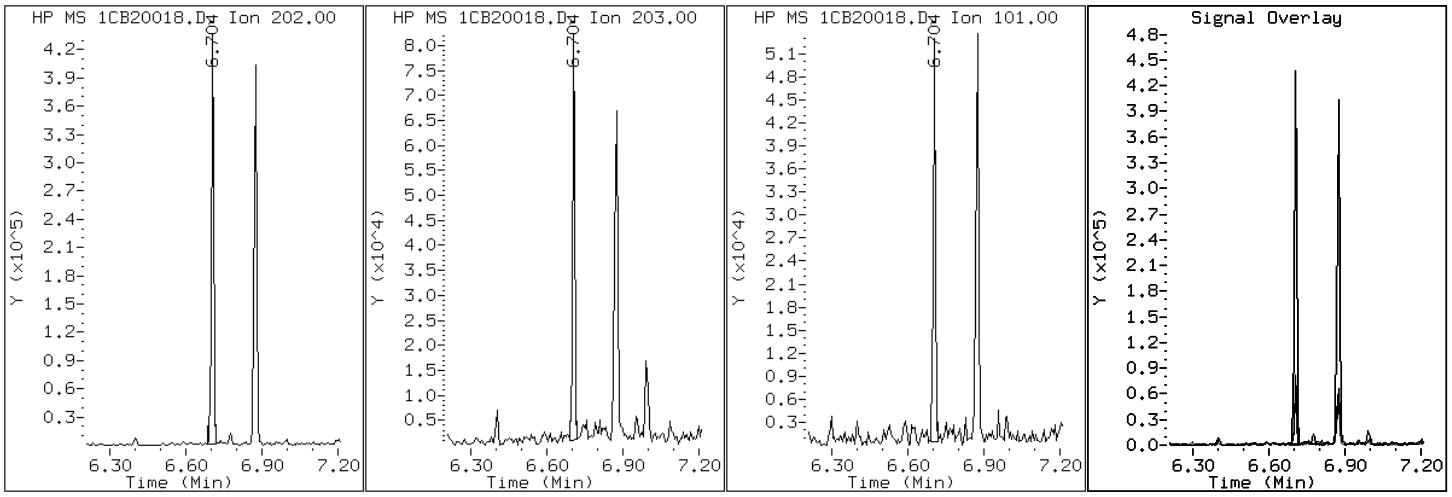
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

15 Fluoranthene



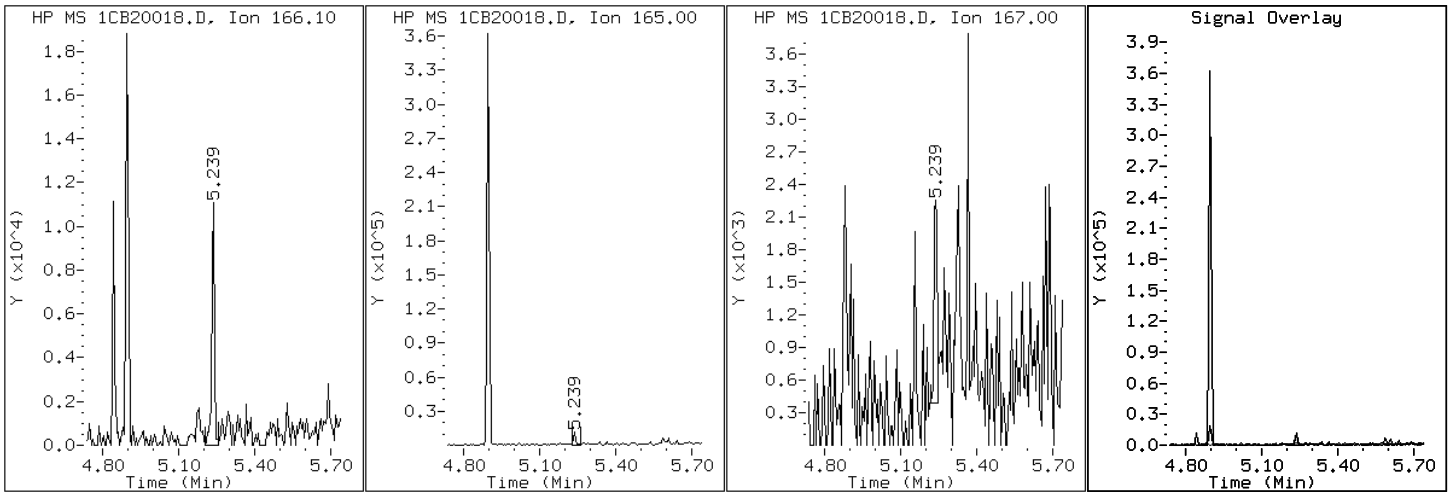
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

9 Fluorene



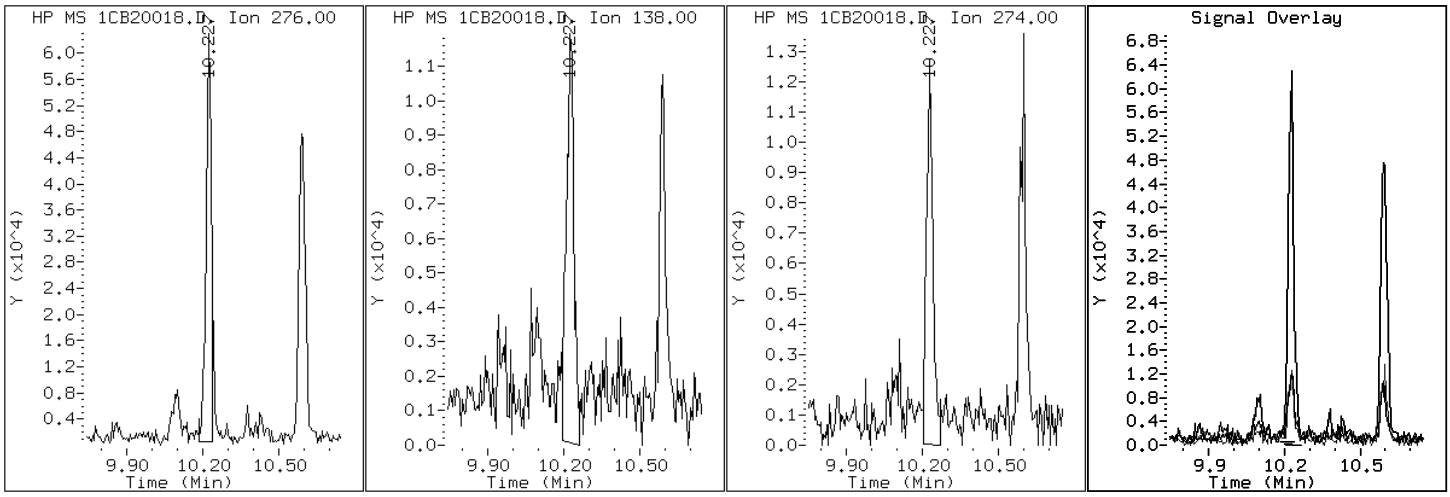
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

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



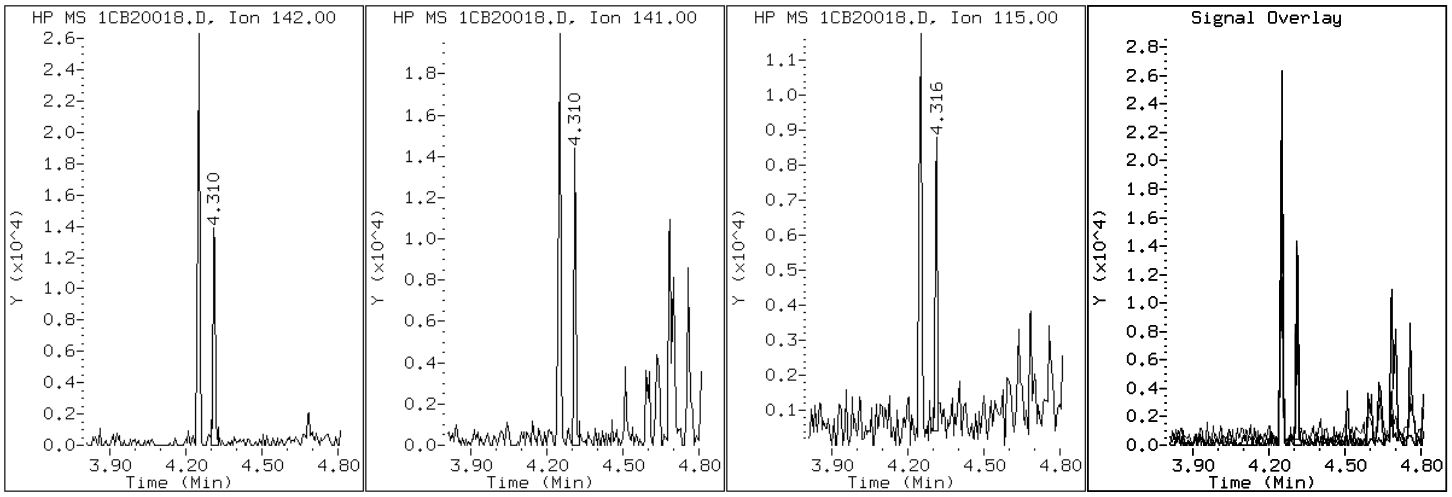
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

4 1-Methylnaphthalene



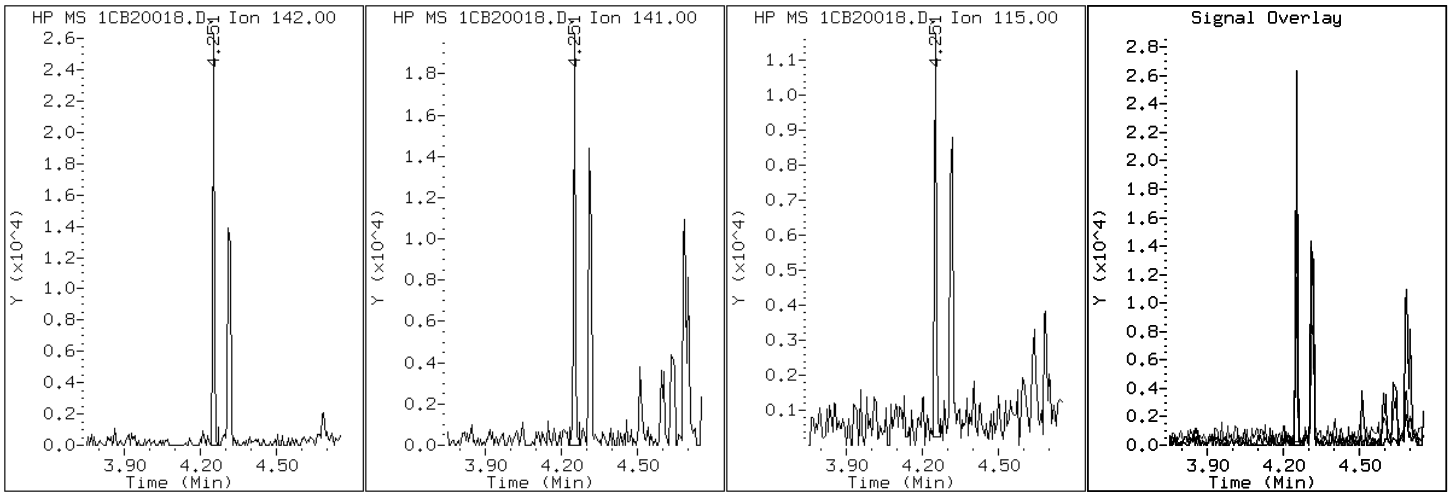
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

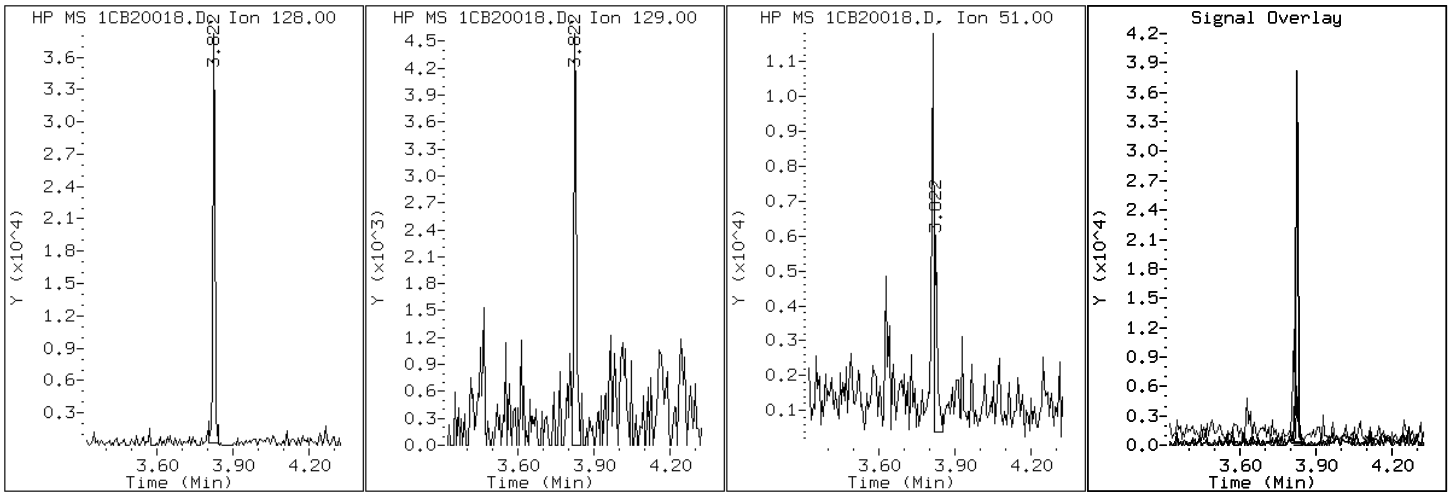
Client ID: CV0971D-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a

Operator: SCC

2 Naphthalene



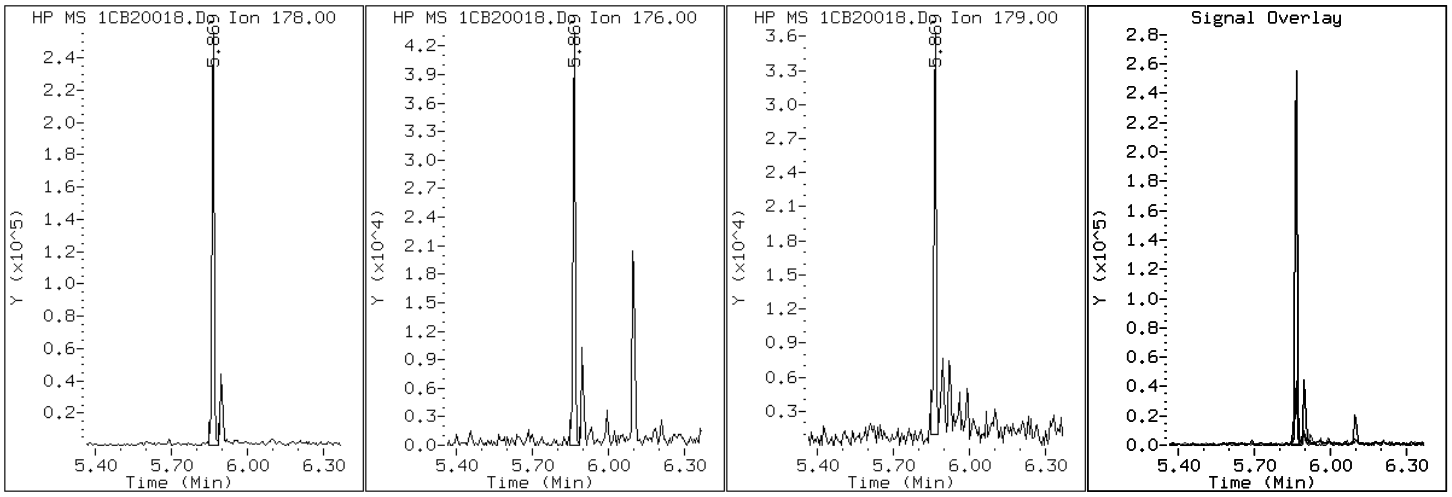
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

11 Phenanthrene



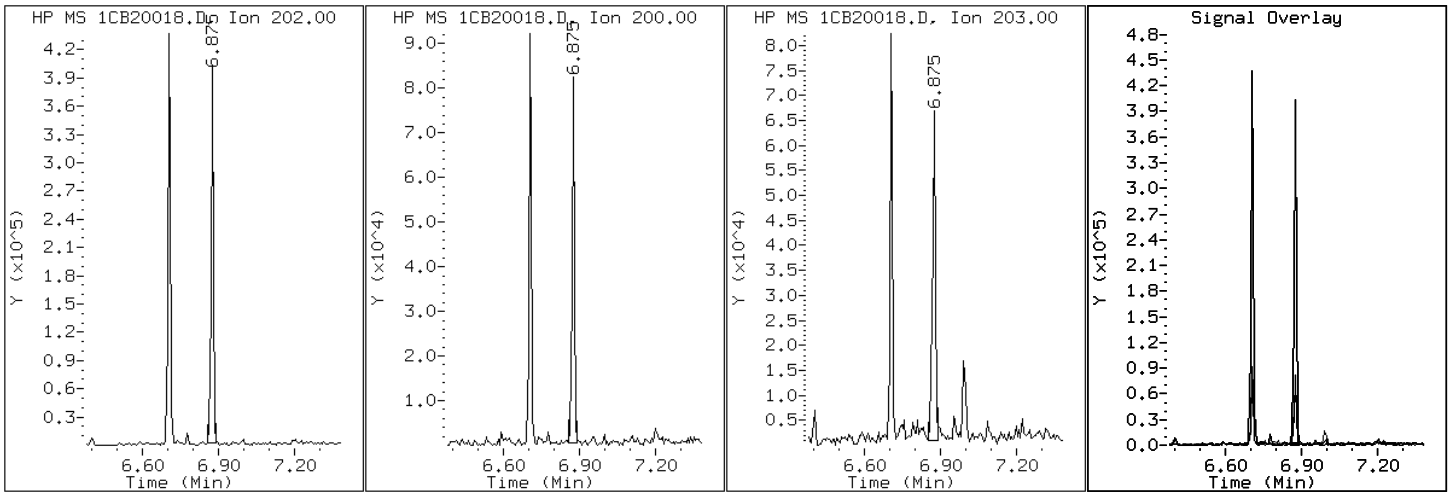
Data File: 1CB20018.D

Date: 20-FEB-2013 18:54

Client ID: CV0971D-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-5-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20018.D
Inj. Date and Time: 20-FEB-2013 18:54
Instrument ID: BSMC5973.i
Client ID: CV0971D-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

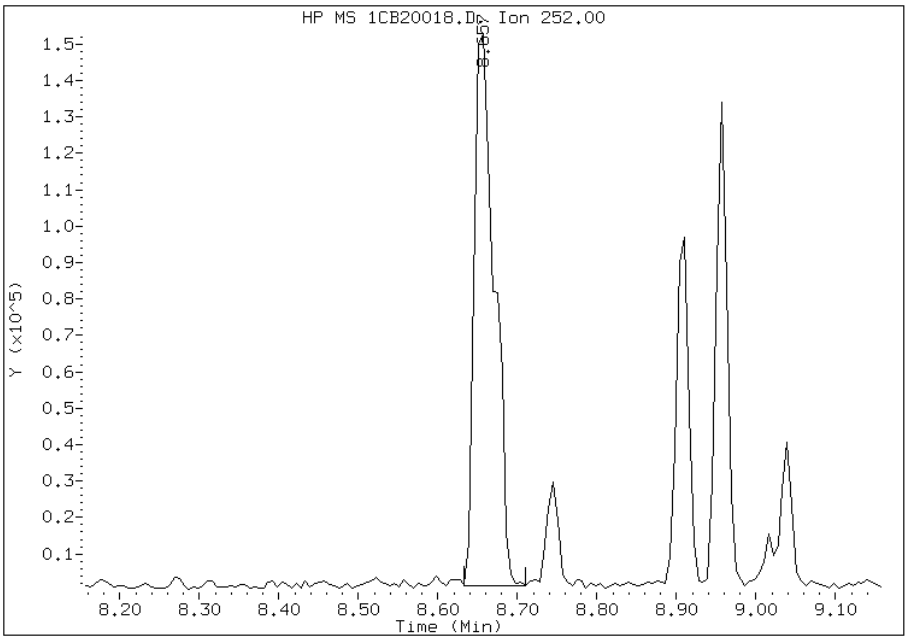
Processing Integration Results

RT: 8.66

Response: 266246

Amount: 4

Conc: 383



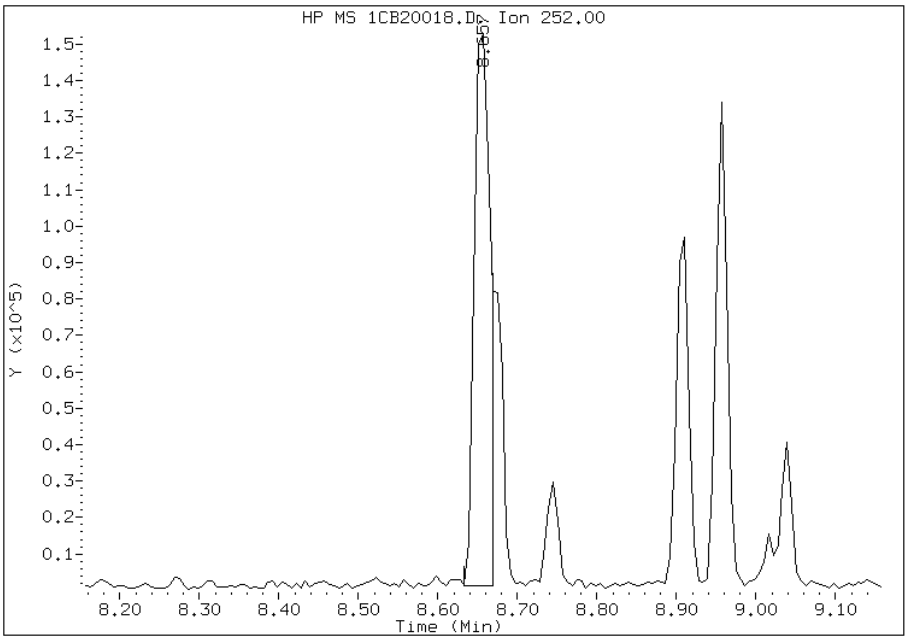
Manual Integration Results

RT: 8.66

Response: 210119

Amount: 3

Conc: 302



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20018.D
Inj. Date and Time: 20-FEB-2013 18:54
Instrument ID: BSMC5973.i
Client ID: CV0971D-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/21/2013

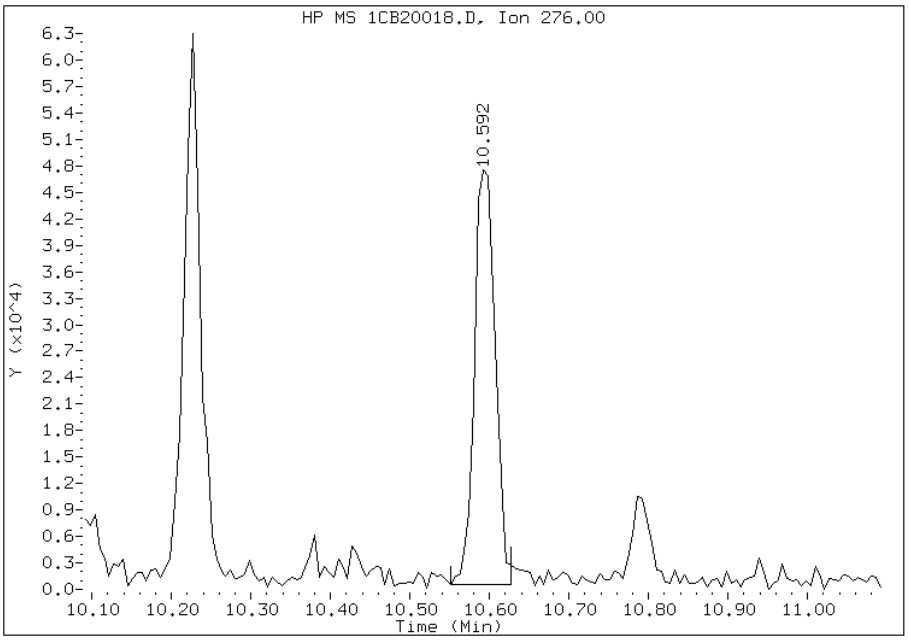
Processing Integration Results

RT: 10.59

Response: 84726

Amount: 1

Conc: 131



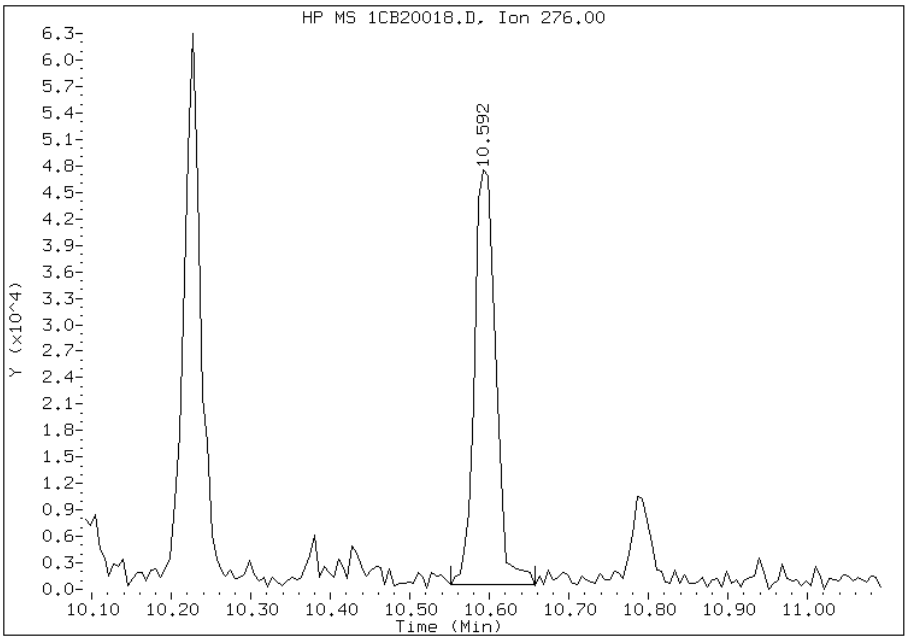
Manual Integration Results

RT: 10.59

Response: 86913

Amount: 1

Conc: 135



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20018.D
Inj. Date and Time: 20-FEB-2013 18:54
Instrument ID: BSMC5973.i
Client ID: CV0971D-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

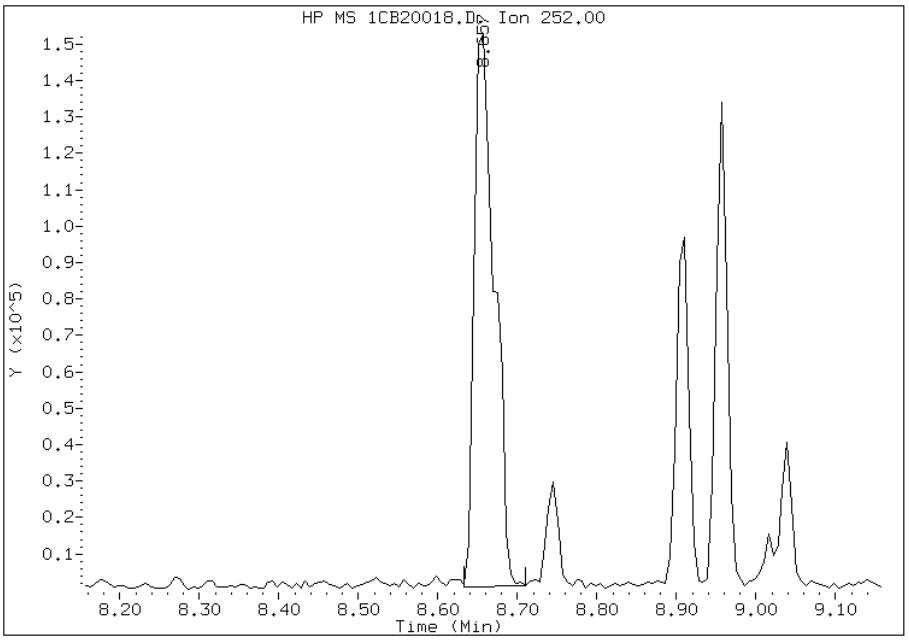
Processing Integration Results

RT: 8.66

Response: 266379

Amount: 3

Conc: 348



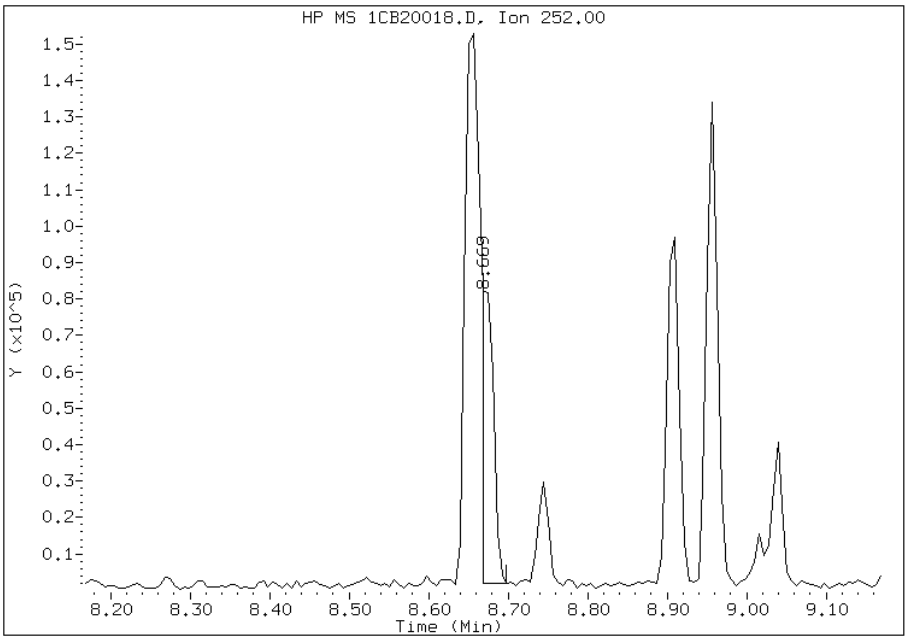
Manual Integration Results

RT: 8.67

Response: 83007

Amount: 1

Conc: 108



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20018.D
Inj. Date and Time: 20-FEB-2013 18:54
Instrument ID: BSMC5973.i
Client ID: CV0971D-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

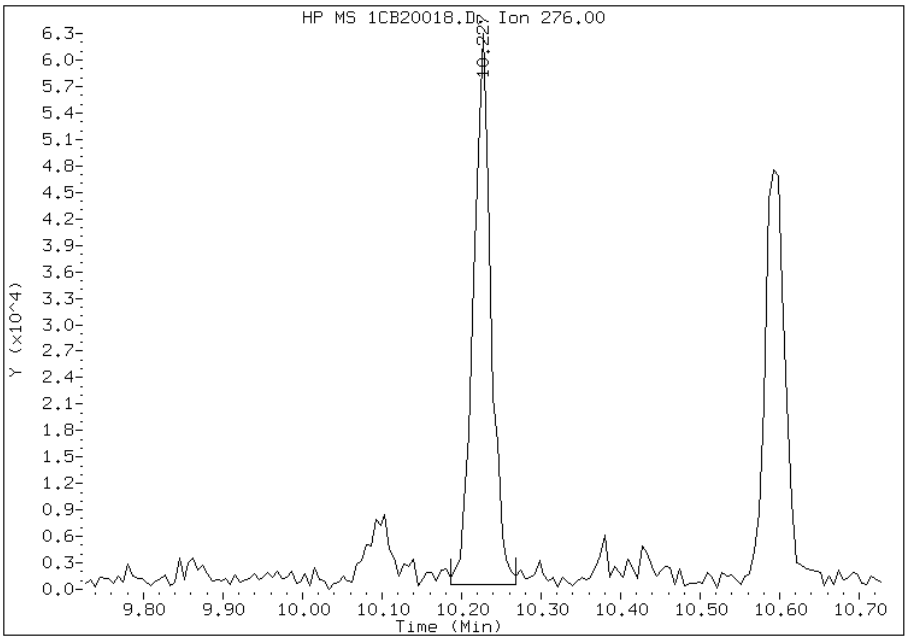
Processing Integration Results

RT: 10.23

Response: 95424

Amount: 1

Conc: 150



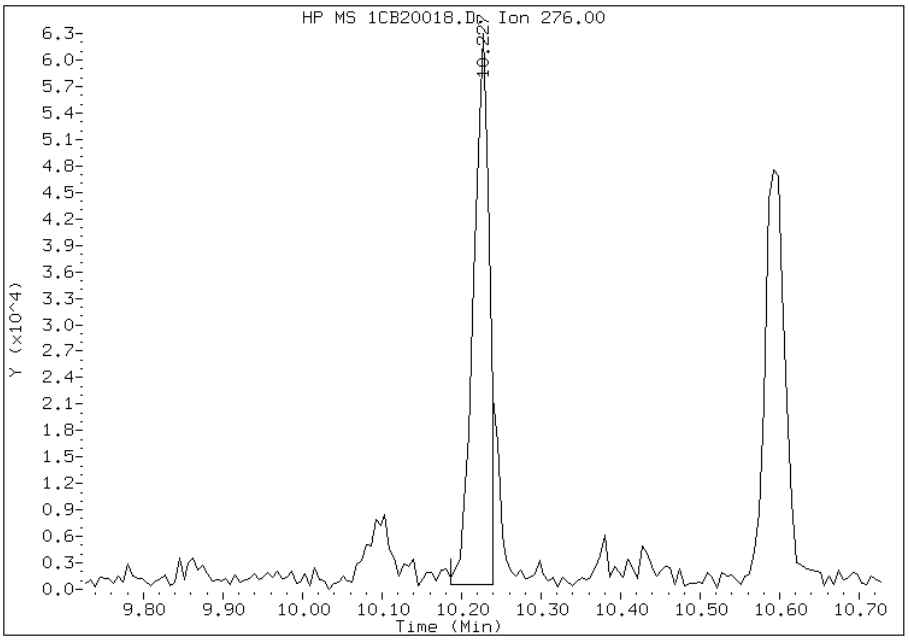
Manual Integration Results

RT: 10.23

Response: 85979

Amount: 1

Conc: 135



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971E-CS | Lab Sample ID: 680-87447-6

Matrix: Solid | Lab File ID: 1CB20019.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 09:13

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.24(g) | Date Analyzed: 02/20/2013 19:12

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

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

% Moisture: 51.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	63	J	200	41
208-96-8	Acenaphthylene	160		81	10
120-12-7	Anthracene	240		17	8.5
56-55-3	Benzo[a]anthracene	1400		16	7.9
50-32-8	Benzo[a]pyrene	1300		21	11
205-99-2	Benzo[b]fluoranthene	2400		25	12
191-24-2	Benzo[g,h,i]perylene	890		41	8.9
207-08-9	Benzo[k]fluoranthene	640		16	7.3
218-01-9	Chrysene	1500		18	9.1
53-70-3	Dibenz(a,h)anthracene	250		41	8.3
206-44-0	Fluoranthene	3500		41	8.1
86-73-7	Fluorene	49		41	8.3
193-39-5	Indeno[1,2,3-cd]pyrene	820		41	14
90-12-0	1-Methylnaphthalene	64	J	81	8.9
91-57-6	2-Methylnaphthalene	73	J	81	14
91-20-3	Naphthalene	95		81	8.9
85-01-8	Phenanthrene	1500		16	7.9
129-00-0	Pyrene	2600		41	7.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20019.D
Lab Smp Id: 680-87447-A-6-A Client Smp ID: CV0971E-CS
Inj Date : 20-FEB-2013 19:12
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-6-a
Misc Info : 680-87447-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	Weight Extracted
M	51.491	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2061248	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1601083	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2943614	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	359055	8.32482	1126.0767
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3259199	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3018413	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	38474	0.70439	95.2808
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	19187	0.54024	73.0772
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	15359	0.47550	64.3194
5 Acenaphthylene	152	4.810	4.810	(0.982)	75482	1.18500	160.2920
7 Acenaphthene	154	4.916	4.922	(1.004)	18482	0.46262	62.5779
9 Fluorene	166	5.239	5.239	(1.070)	18764	0.36589	49.4936
11 Phenanthrene	178	5.869	5.869	(1.003)	996107	11.3368	1533.5001
12 Anthracene	178	5.898	5.904	(1.008)	142728	1.80295	243.8806

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.010	(1.027)	165569	2.40782	325.6995
15 Fluoranthene	202	6.710	6.710	(1.147)	2206557	25.7006	3476.4557
16 Pyrene	202	6.874	6.880	(0.882)	1693422	19.5167	2639.9740
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	958046	10.6595	1441.8875
19 Chrysene	228	7.815	7.827	(1.002)	1033245	11.1295	1505.4639
20 Benzo(b)fluoranthene	252	8.657	8.662	(0.960)	1321266	17.8546	2415.1388
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	382959	4.69743	635.4086(QM)
22 Benzo(a)pyrene	252	8.957	8.968	(0.993)	684844	9.72559	1315.5553
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	409999	6.06205	819.9975(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	115625	1.81288	245.2232
26 Benzo(g,h,i)perylene	276	10.598	10.615	(1.175)	449785	6.54686	885.5770

QC Flag Legend

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

Data File: 1CB20019.D

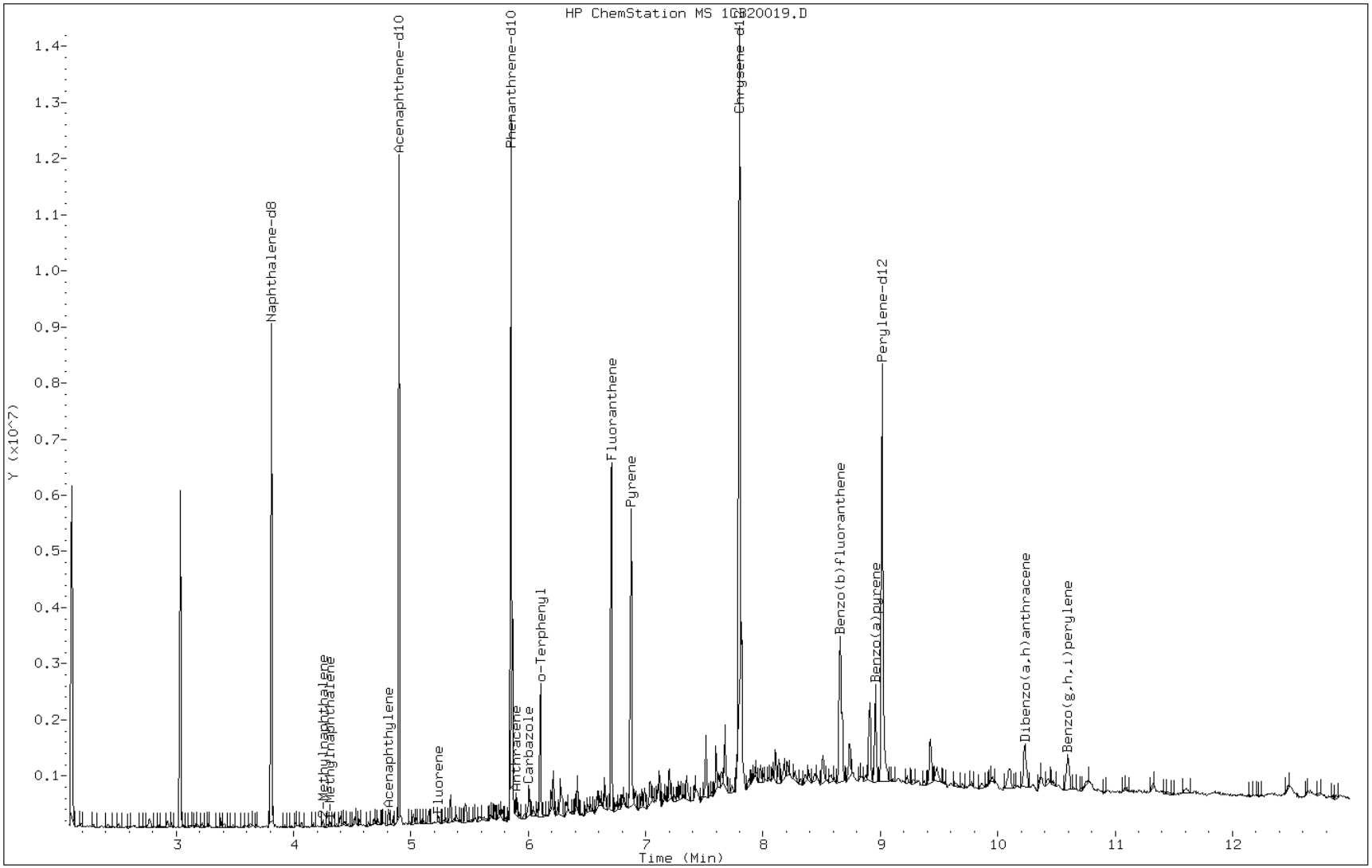
Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a

Operator: SCC



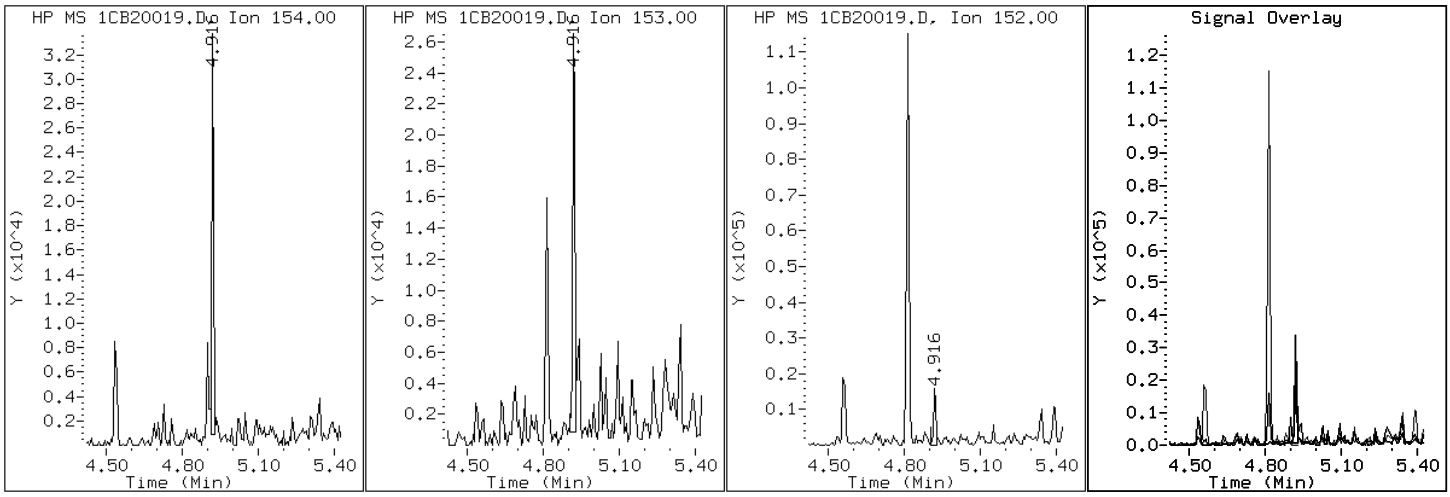
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

7 Acenaphthene



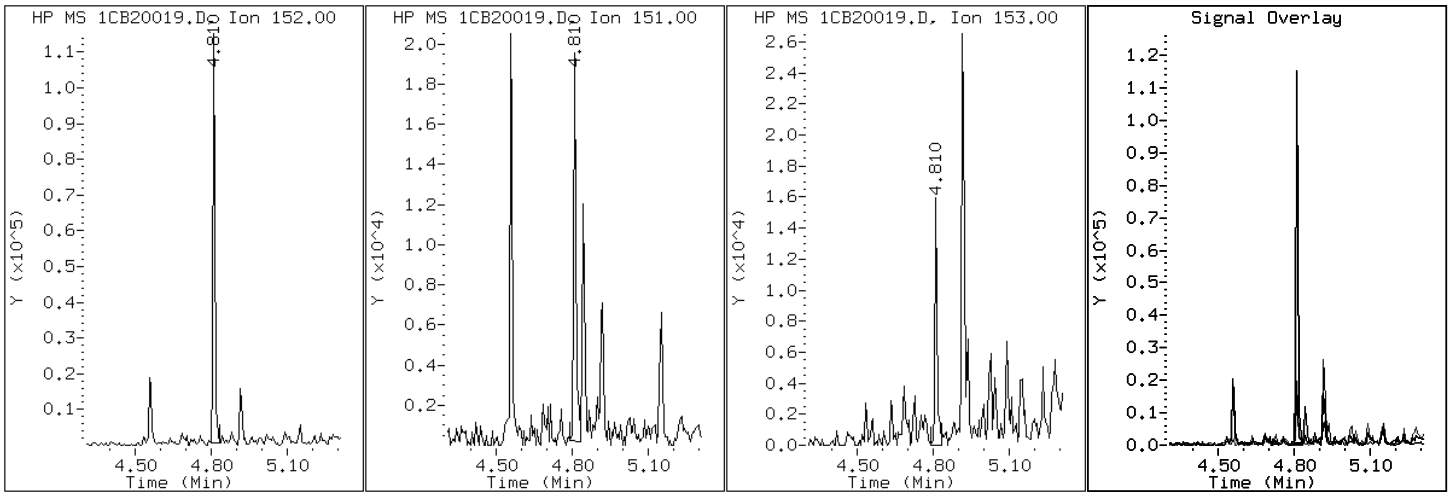
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

5 Acenaphthylene



Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

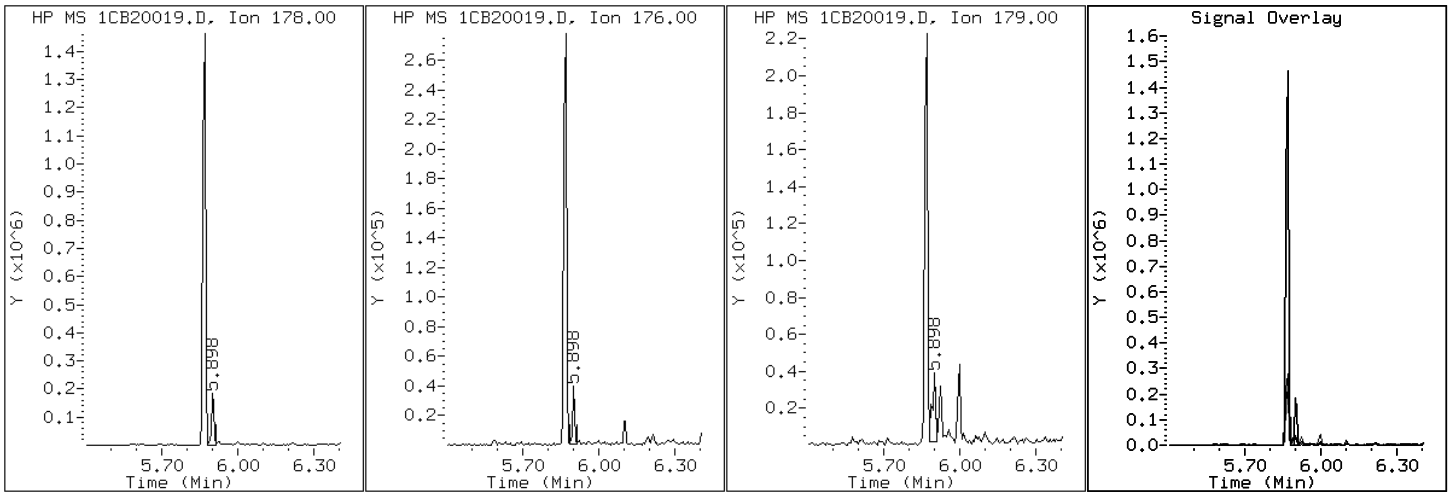
Client ID: CV0971E-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a

Operator: SCC

12 Anthracene



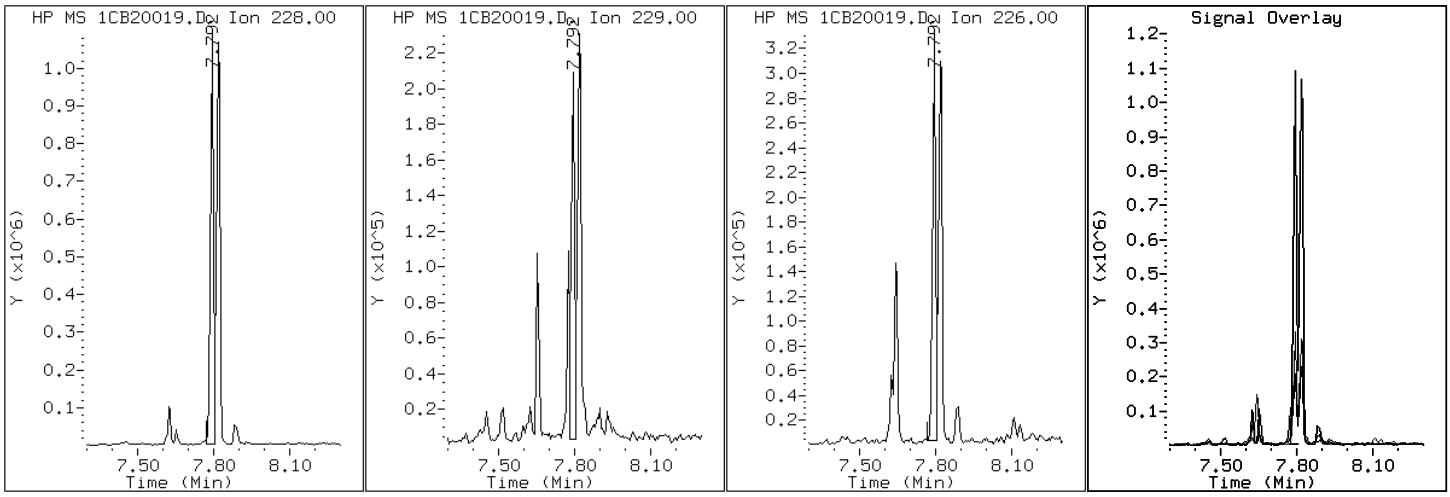
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

17 Benzo(a)anthracene



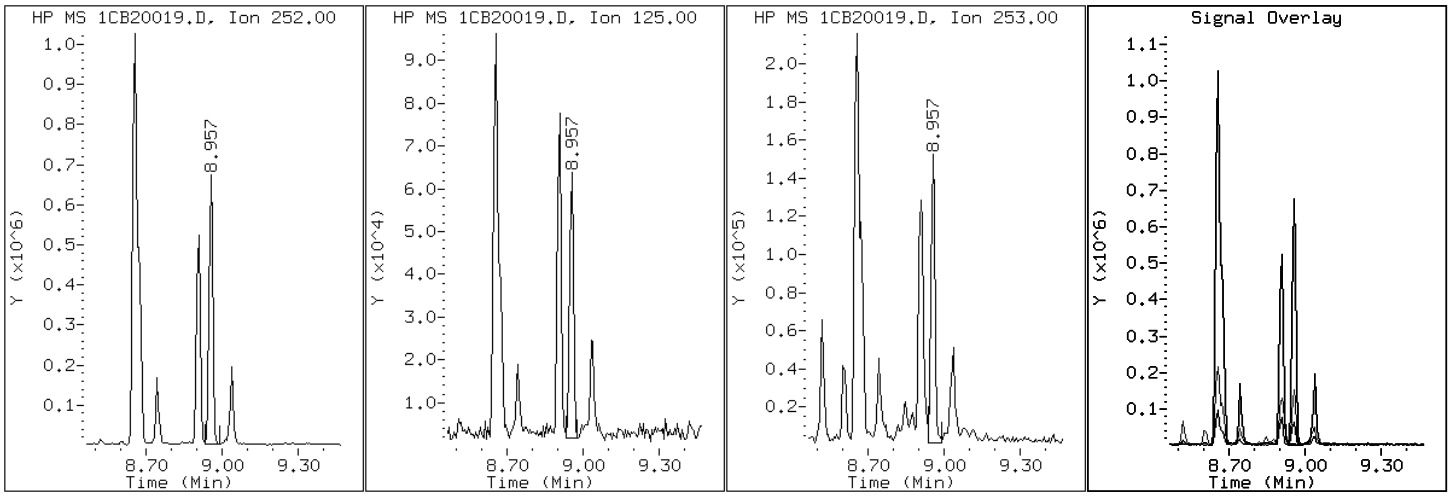
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

22 Benzo(a)pyrene



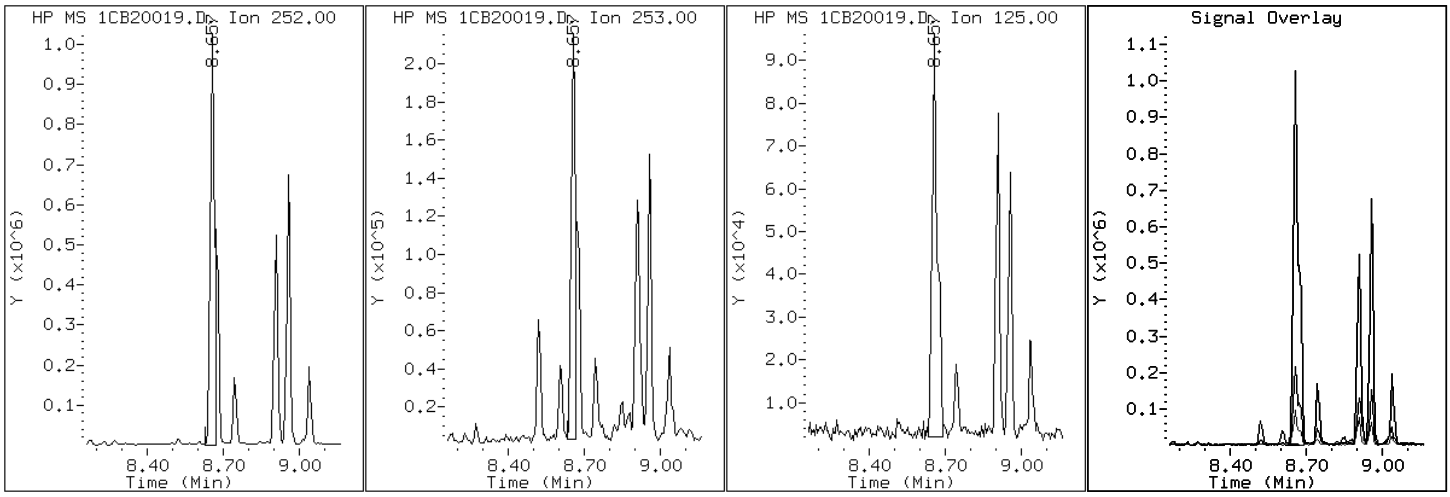
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

20 Benzo(b)fluoranthene



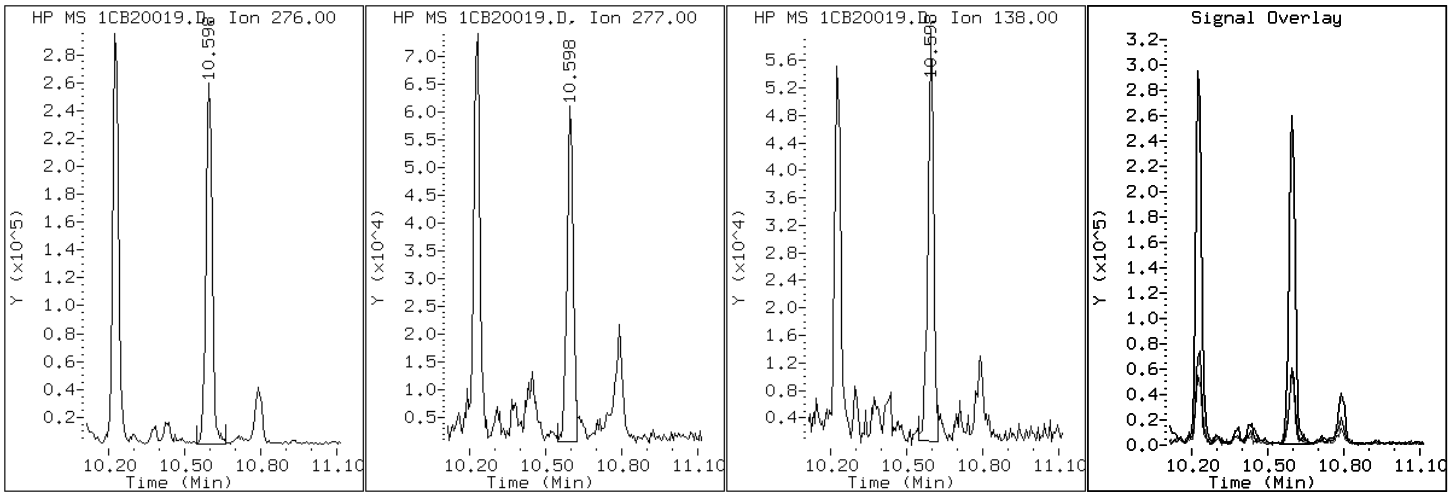
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

26 Benzo(g,h,i)perylene



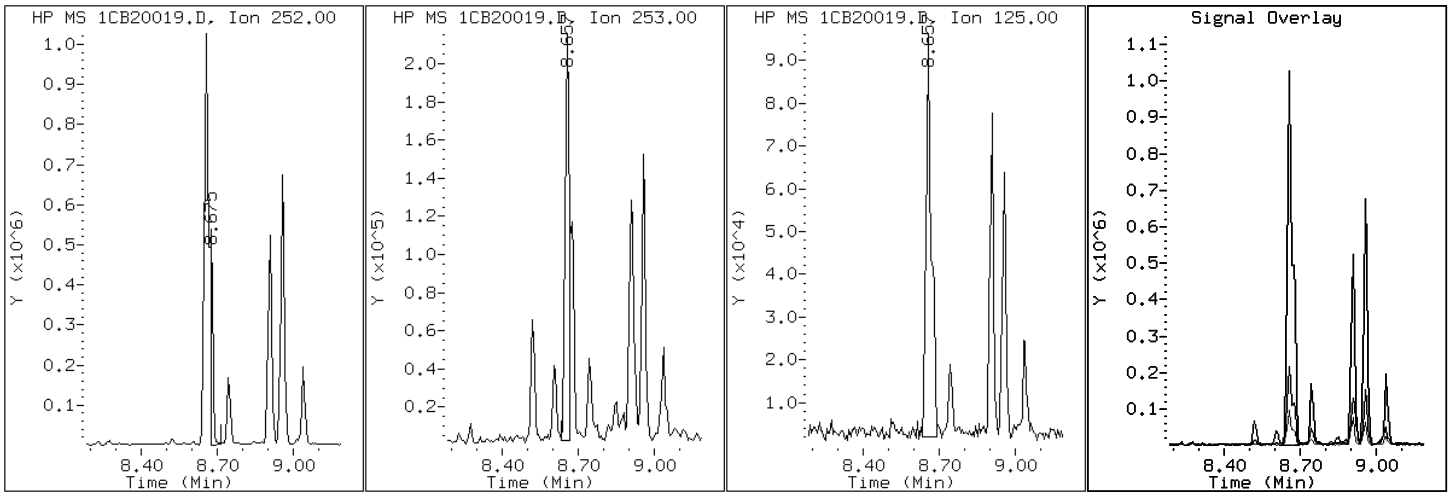
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

21 Benzo(k)fluoranthene



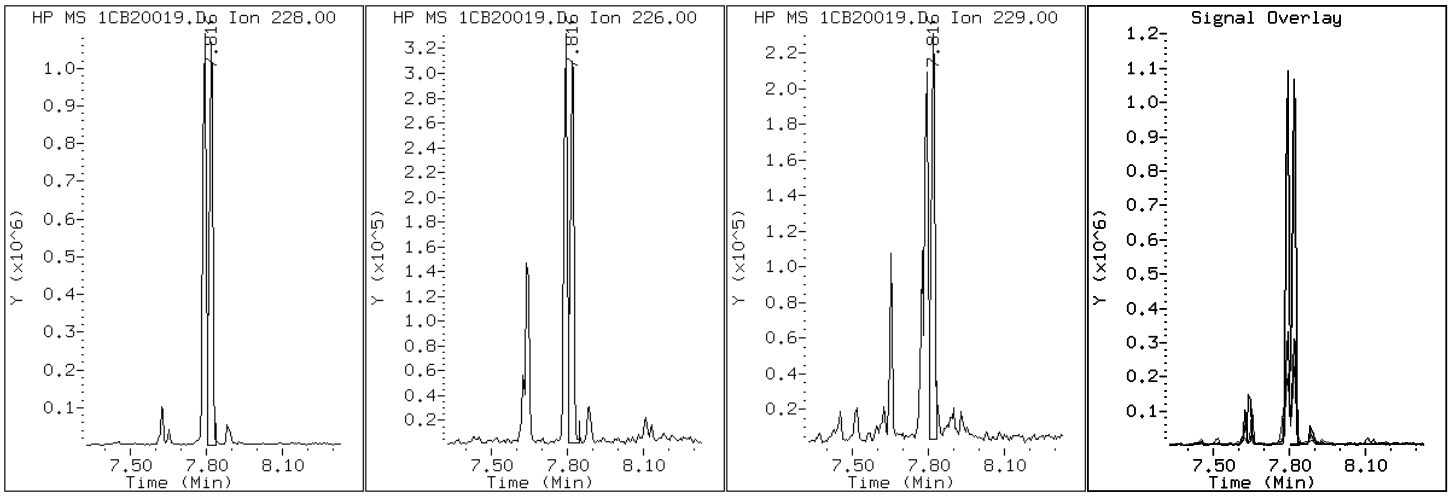
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

19 Chrysene



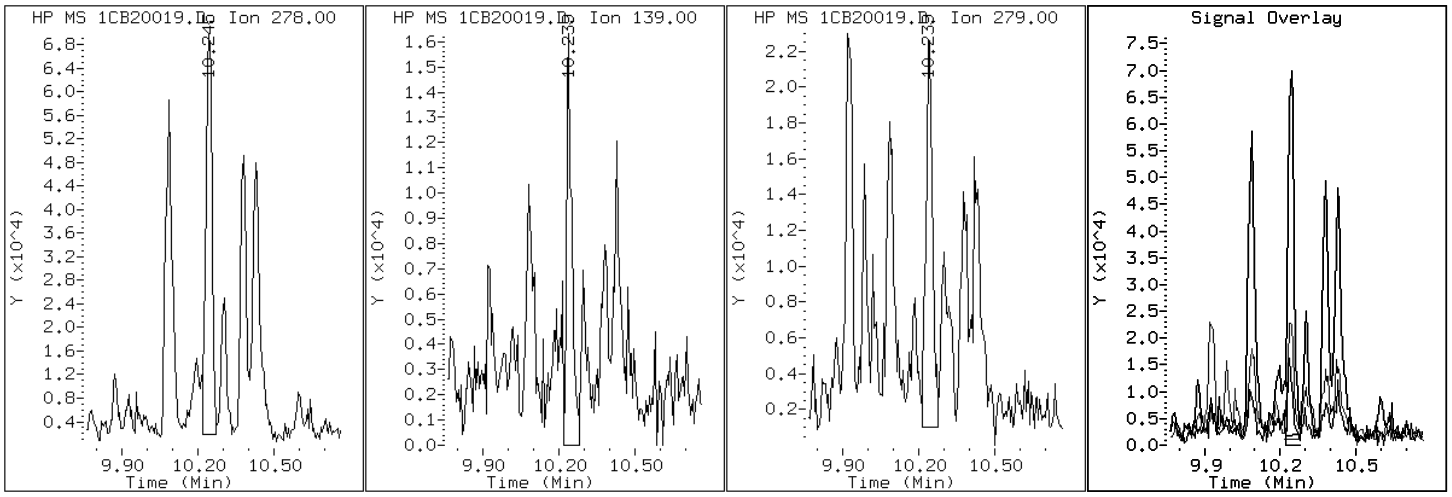
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

25 Dibenzo(a,h)anthracene



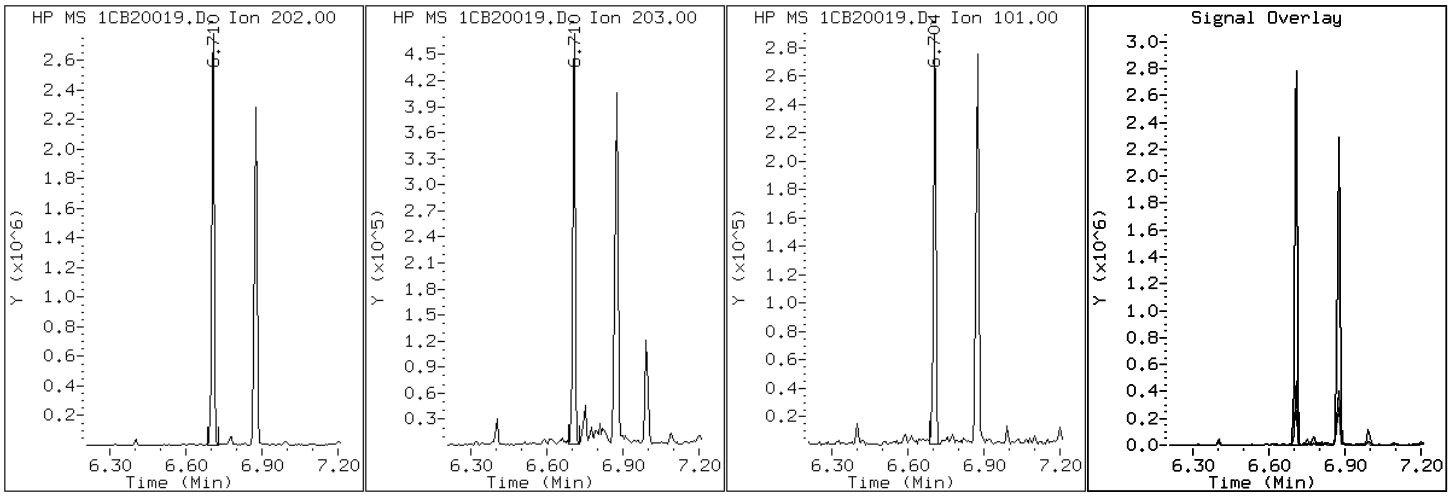
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

15 Fluoranthene



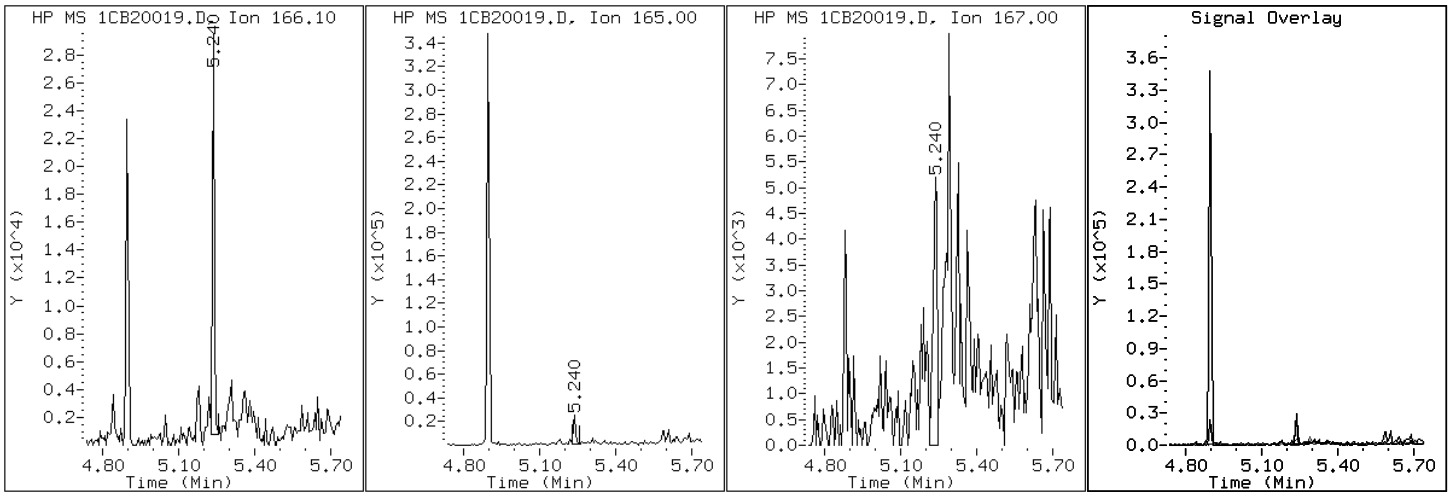
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

9 Fluorene



Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

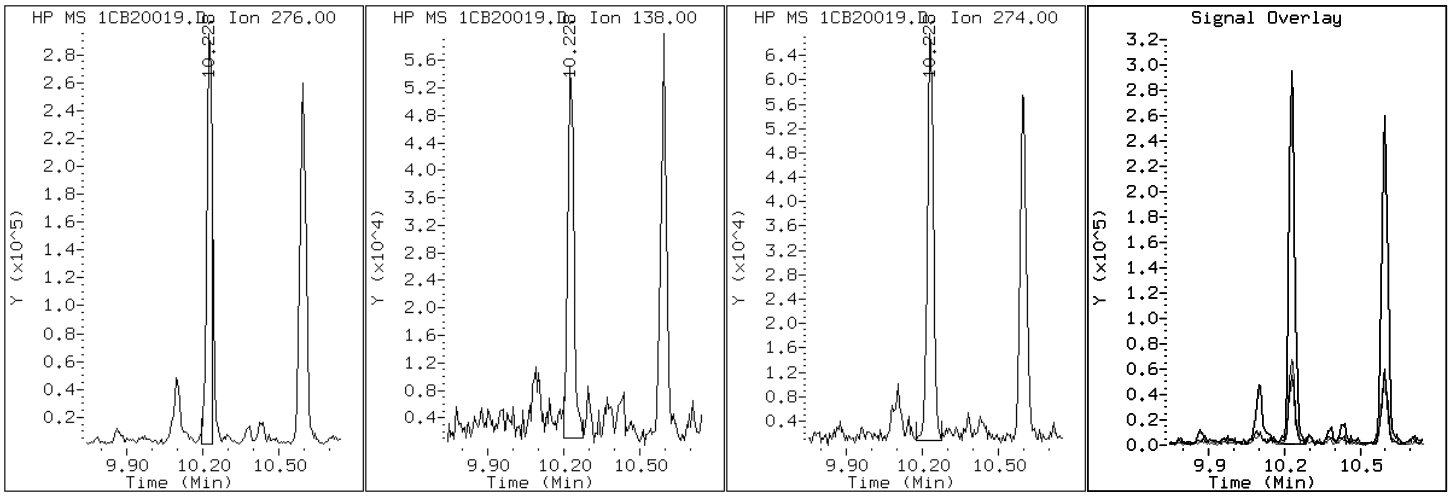
Client ID: CV0971E-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a

Operator: SCC

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



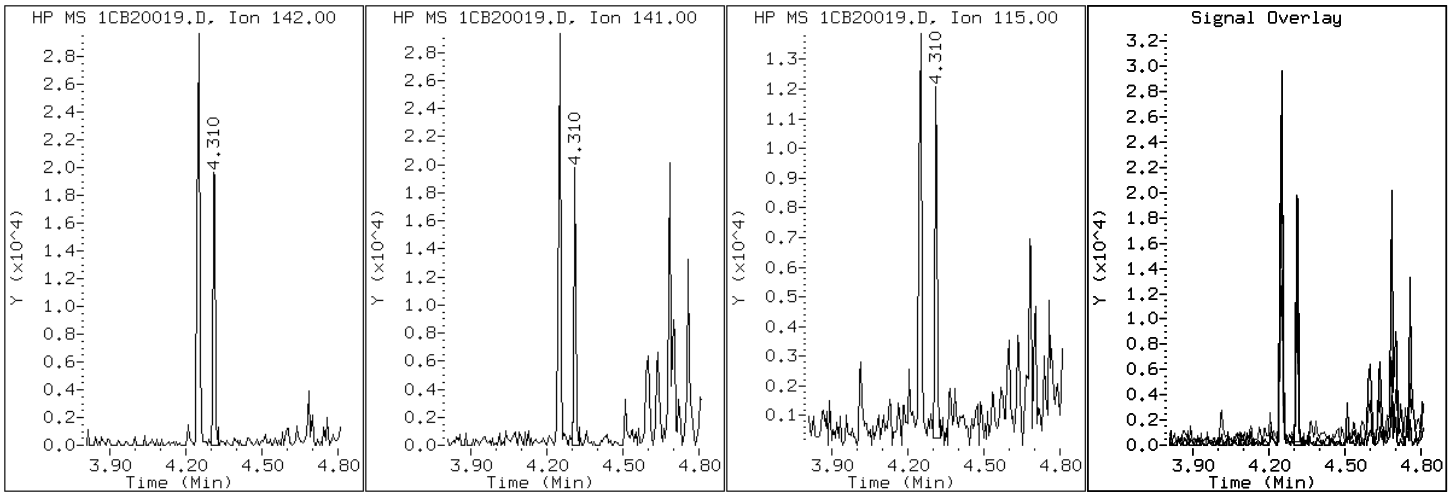
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

4 1-Methylnaphthalene



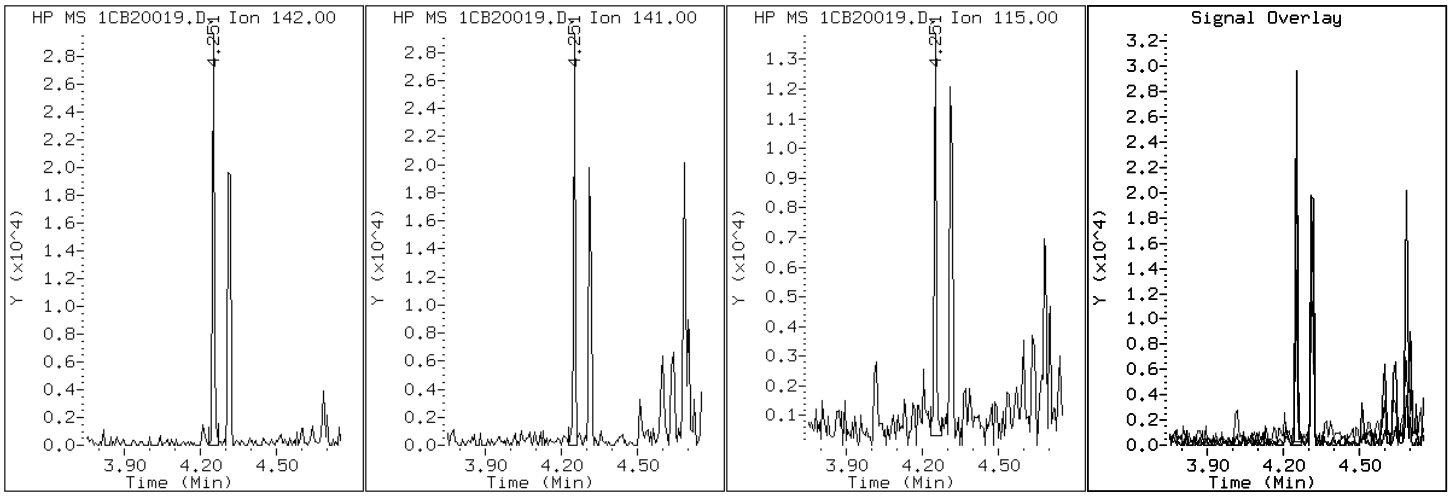
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

3 2-Methylnaphthalene



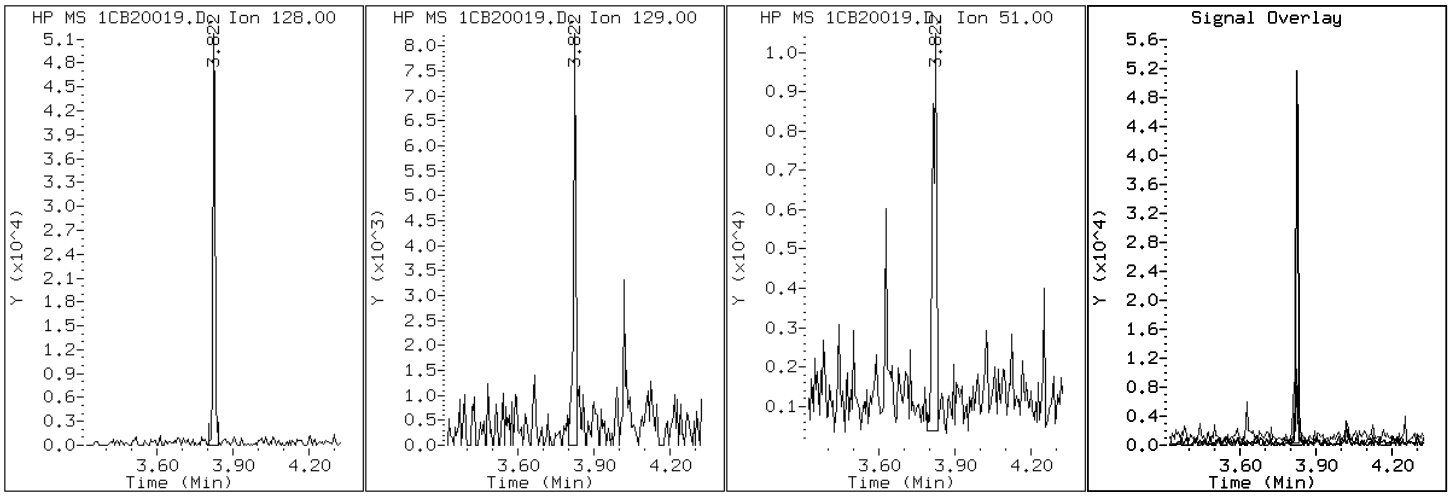
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

2 Naphthalene



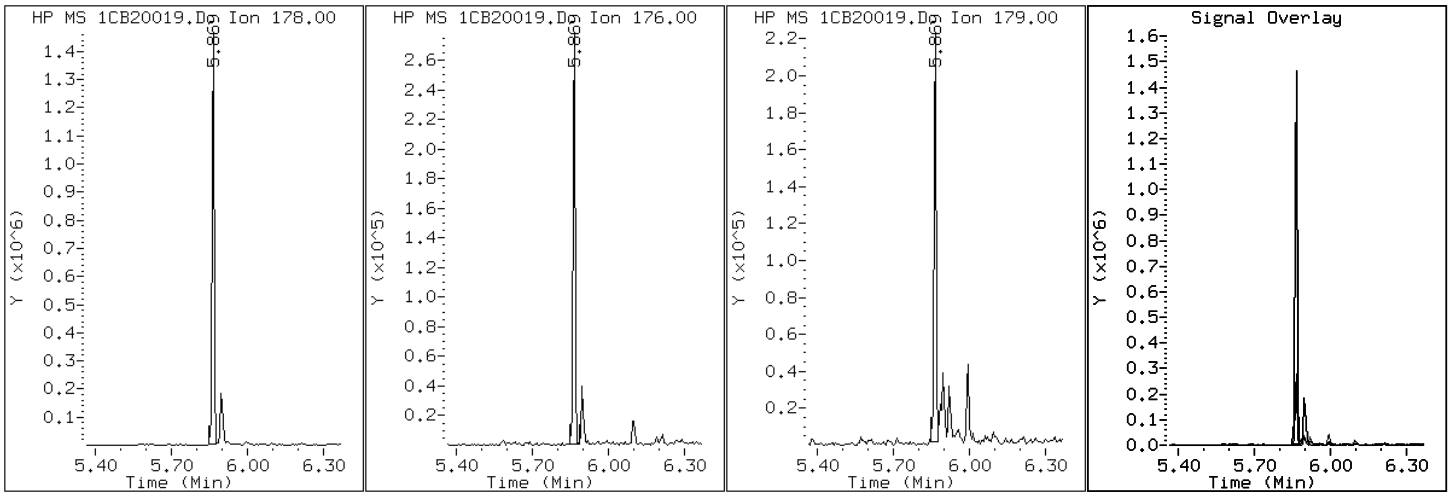
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

11 Phenanthrene



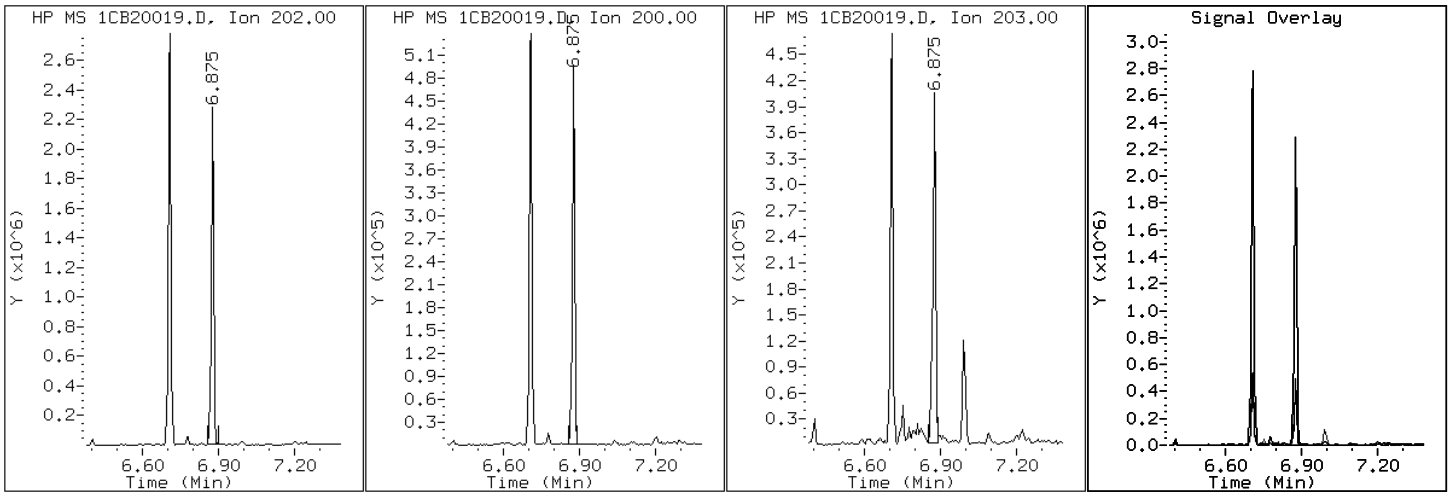
Data File: 1CB20019.D

Date: 20-FEB-2013 19:12

Client ID: CV0971E-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-6-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20019.D
Inj. Date and Time: 20-FEB-2013 19:12
Instrument ID: BSMC5973.i
Client ID: CV0971E-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

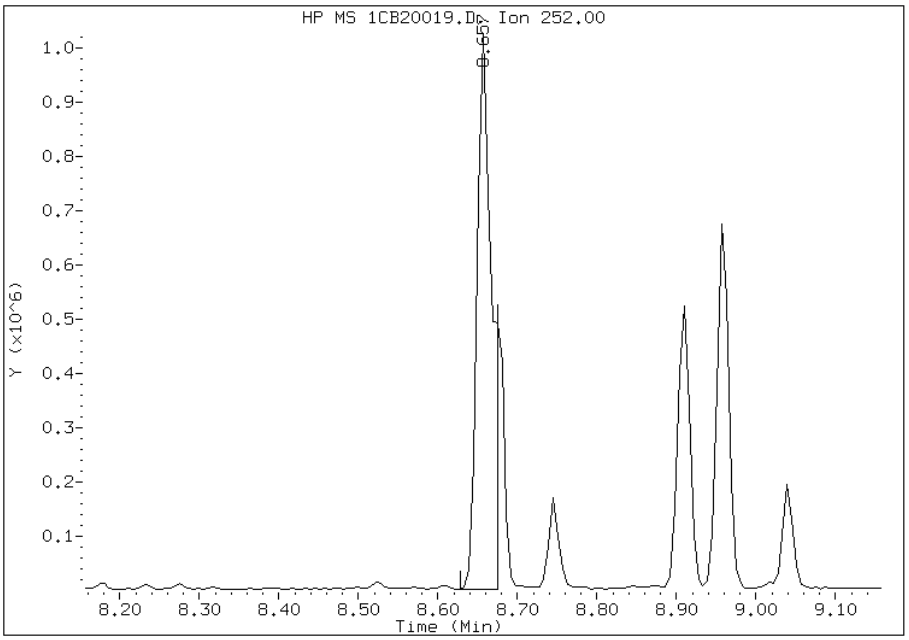
Processing Integration Results

RT: 8.66

Response: 1321266

Amount: 16

Conc: 2192



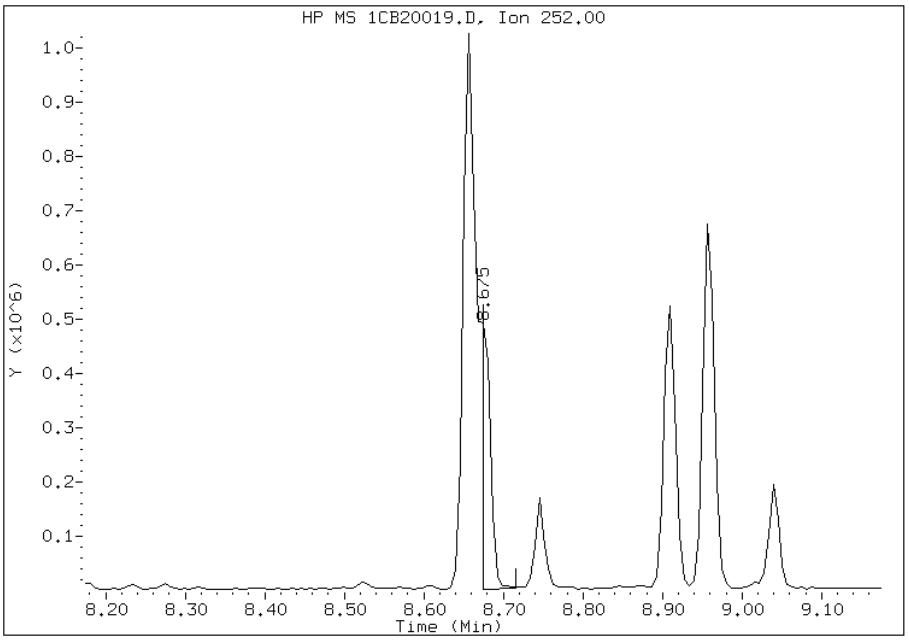
Manual Integration Results

RT: 8.67

Response: 382959

Amount: 5

Conc: 635



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:22
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CB20019.D
Inj. Date and Time: 20-FEB-2013 19:12
Instrument ID: BSMC5973.i
Client ID: CV0971E-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

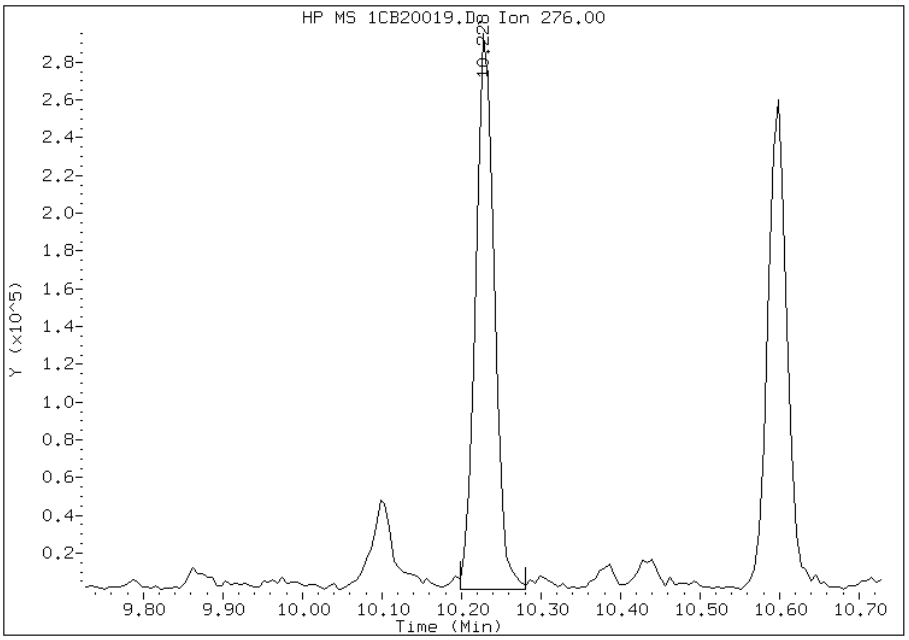
Processing Integration Results

RT: 10.23

Response: 476329

Amount: 7

Conc: 953



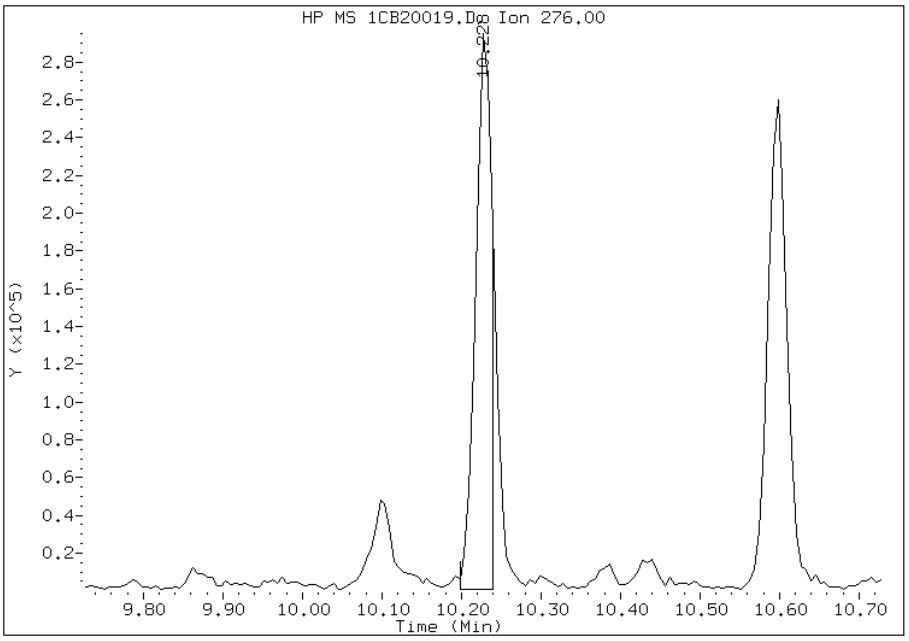
Manual Integration Results

RT: 10.23

Response: 409999

Amount: 6

Conc: 820



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971F-CS | Lab Sample ID: 680-87447-7

Matrix: Solid | Lab File ID: 1CB20020.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 09:10

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.12(g) | Date Analyzed: 02/20/2013 19:31

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

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

% Moisture: 32.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	590	U	590	120
208-96-8	Acenaphthylene	140	J	240	30
120-12-7	Anthracene	260		50	25
56-55-3	Benzo[a]anthracene	890		47	23
50-32-8	Benzo[a]pyrene	960		61	31
205-99-2	Benzo[b]fluoranthene	1500		72	36
191-24-2	Benzo[g,h,i]perylene	720		120	26
207-08-9	Benzo[k]fluoranthene	480		47	21
218-01-9	Chrysene	920		53	27
53-70-3	Dibenz(a,h)anthracene	150		120	24
206-44-0	Fluoranthene	2100		120	24
86-73-7	Fluorene	130		120	24
193-39-5	Indeno[1,2,3-cd]pyrene	600		120	42
90-12-0	1-Methylnaphthalene	200	J	240	26
91-57-6	2-Methylnaphthalene	220	J	240	42
91-20-3	Naphthalene	260		240	26
85-01-8	Phenanthrene	1500		47	23
129-00-0	Pyrene	1700		120	22

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20020.D
Lab Smp Id: 680-87447-A-7-A Client Smp ID: CV0971F-CS
Inj Date : 20-FEB-2013 19:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-7-a
Misc Info : 680-87447-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 20
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	15.120	Weight Extracted
M	32.816	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2037860	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1530345	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2768620	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	79450	1.95851	771.1956
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	2979627	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2764037	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	35133	0.65060	256.1862
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	19211	0.54713	215.4405
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	15971	0.50012	196.9307
5 Acenaphthylene	152	4.810	4.810	(0.982)	20910	0.34344	135.2362
9 Fluorene	166	5.239	5.239	(1.070)	15690	0.32009	126.0426
11 Phenanthrene	178	5.868	5.869	(1.003)	317146	3.83761	1511.1261
12 Anthracene	178	5.898	5.904	(1.008)	49370	0.66306	261.0928
13 Carbazole	167	6.010	6.010	(1.027)	36210	0.55987	220.4602

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.710	(1.146)	427378	5.29247	2083.9983
16 Pyrene	202	6.874	6.880	(0.882)	345737	4.35849	1716.2297
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	186371	2.26819	893.1378
19 Chrysene	228	7.815	7.827	(1.002)	197275	2.32431	915.2383
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	250582	3.69780	1456.0713(M)
21 Benzo(k)fluoranthene	252	8.668	8.686	(0.962)	91052	1.21964	480.2543(M)
22 Benzo(a)pyrene	252	8.957	8.968	(0.993)	156443	2.42614	955.3324
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.245	(1.134)	94991	1.53375	603.9390(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	22531	0.38577	151.9047
26 Benzo(g,h,i)perylene	276	10.598	10.615	(1.175)	115532	1.83639	723.1104

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB20020.D

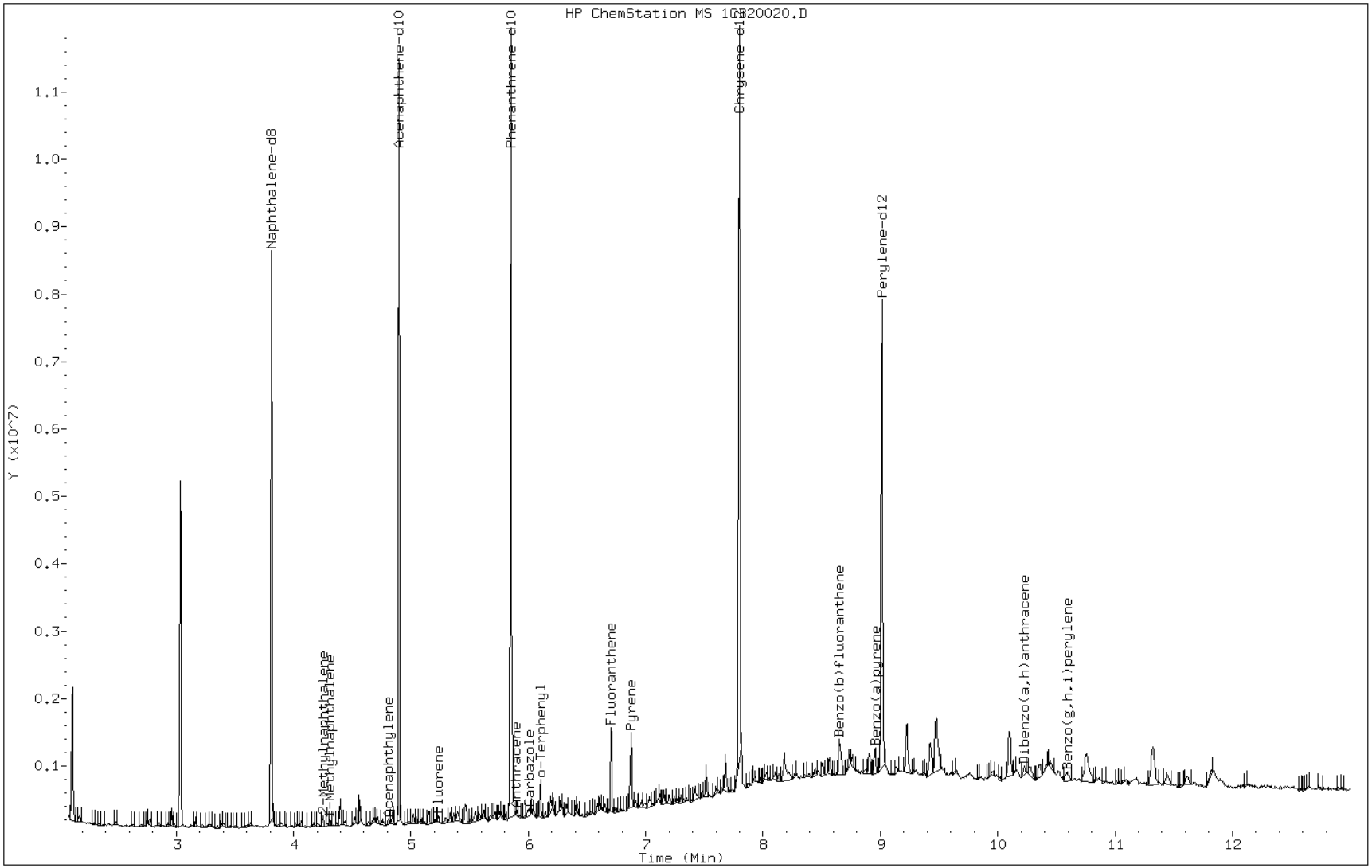
Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a

Operator: SCC



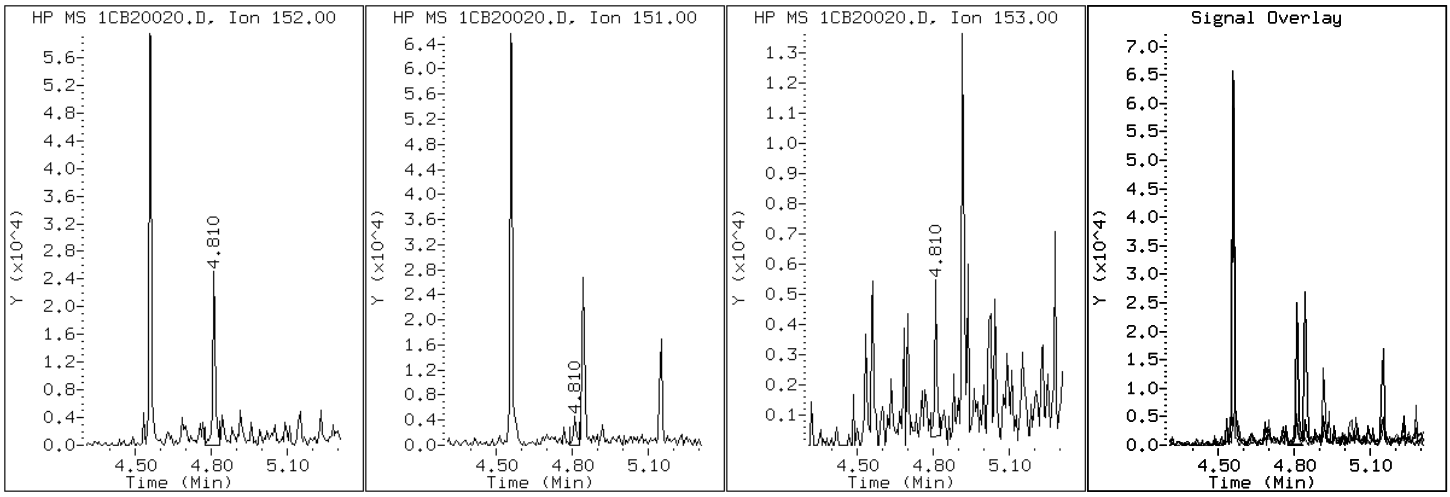
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

5 Acenaphthylene



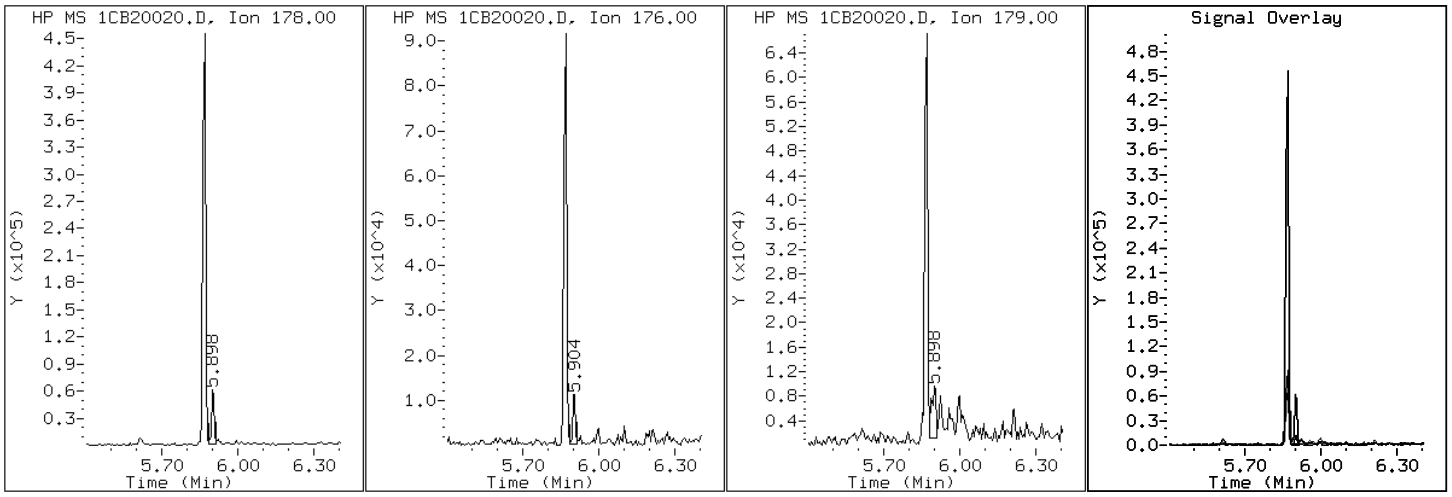
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

12 Anthracene



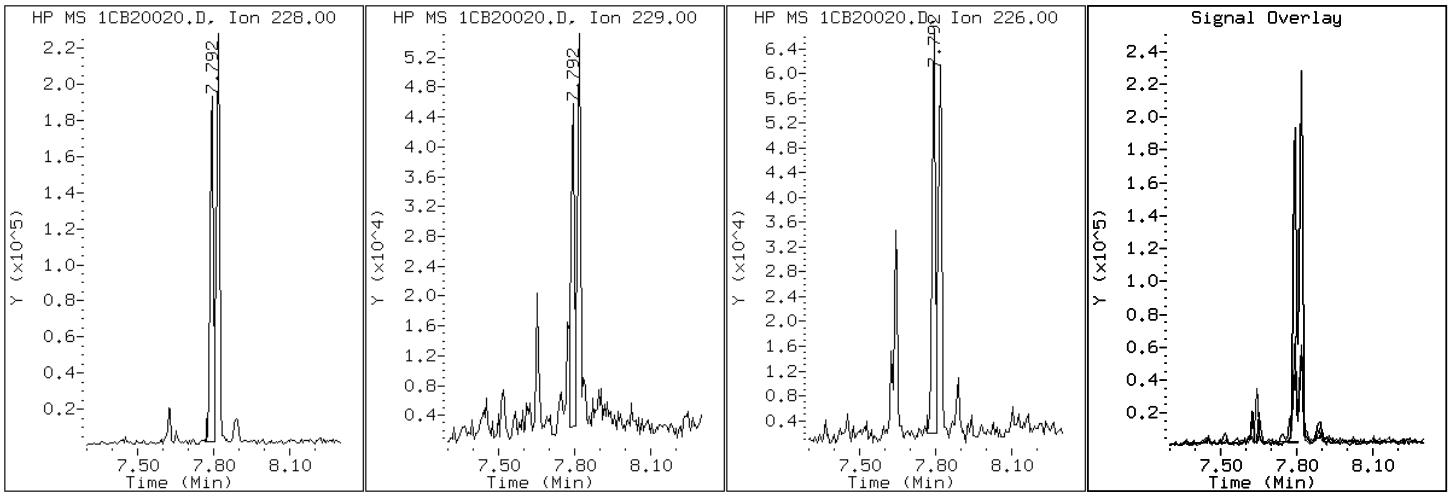
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

17 Benzo(a)anthracene



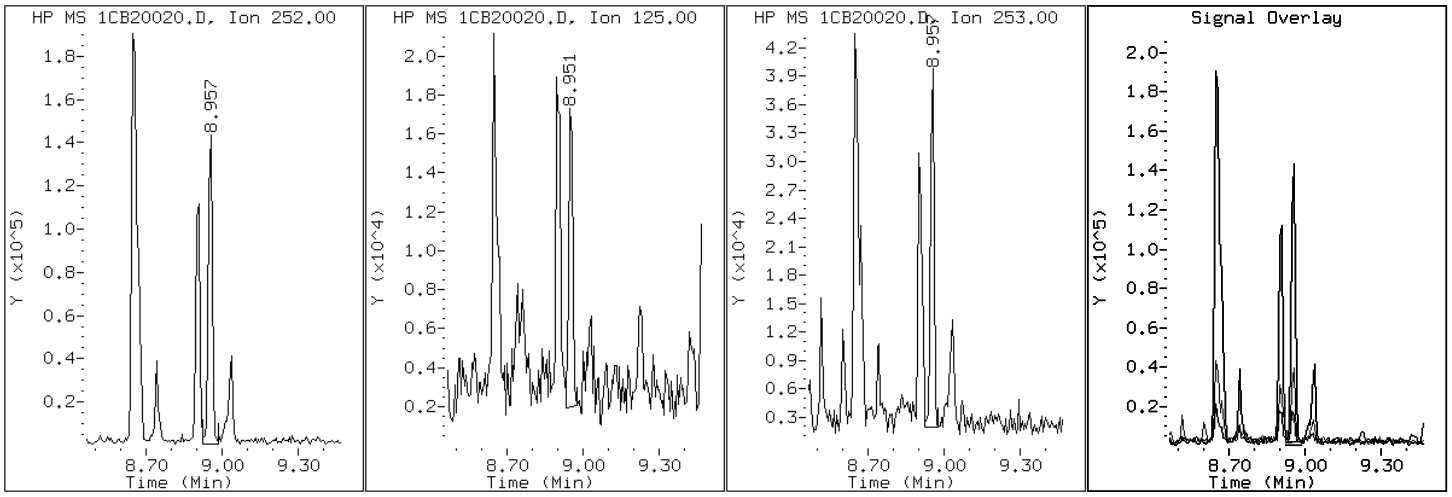
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

22 Benzo(a)pyrene



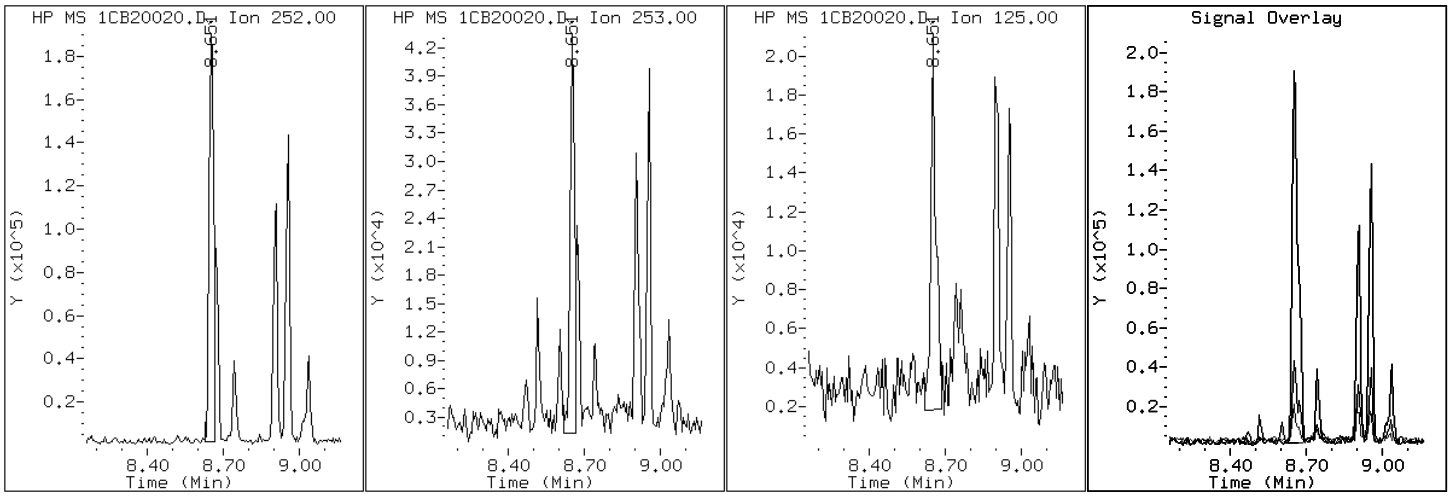
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



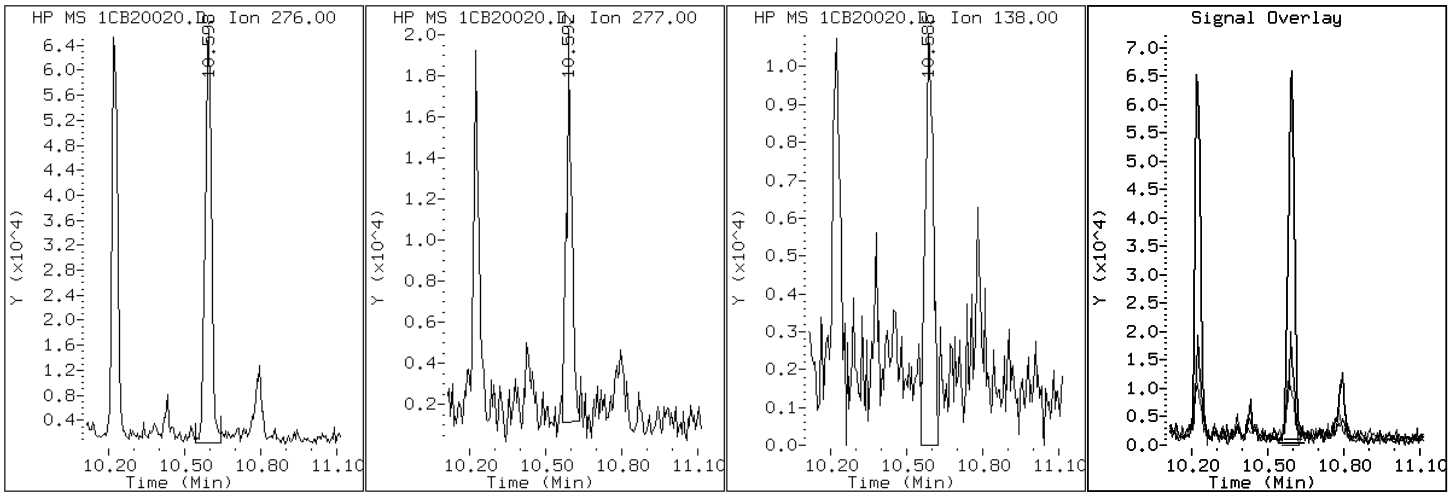
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



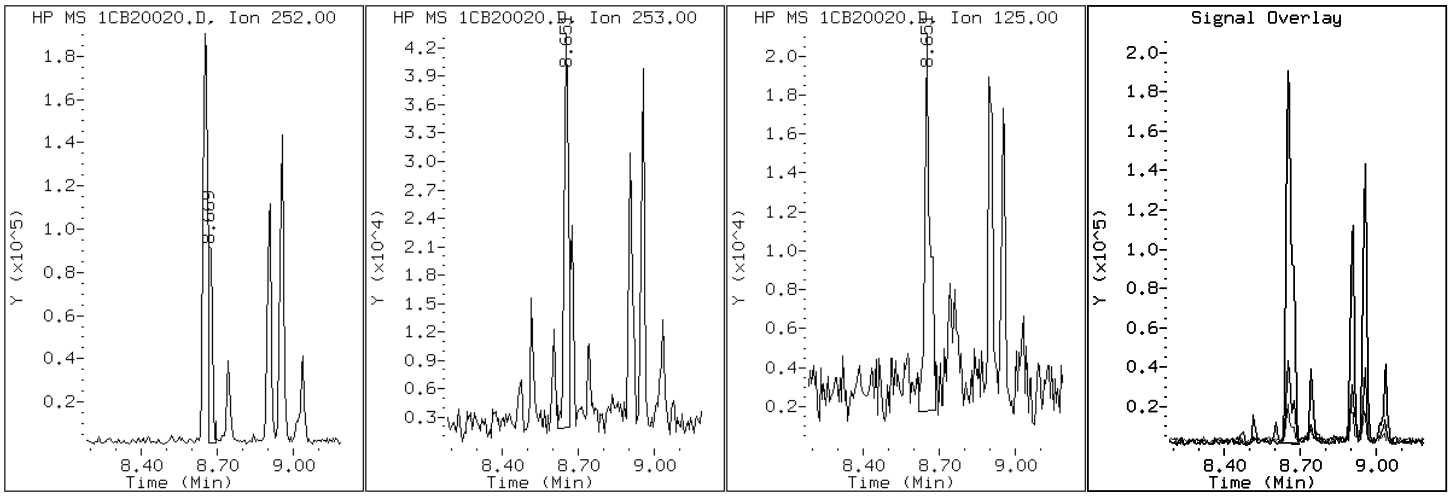
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

21 Benzo(k)fluoranthene



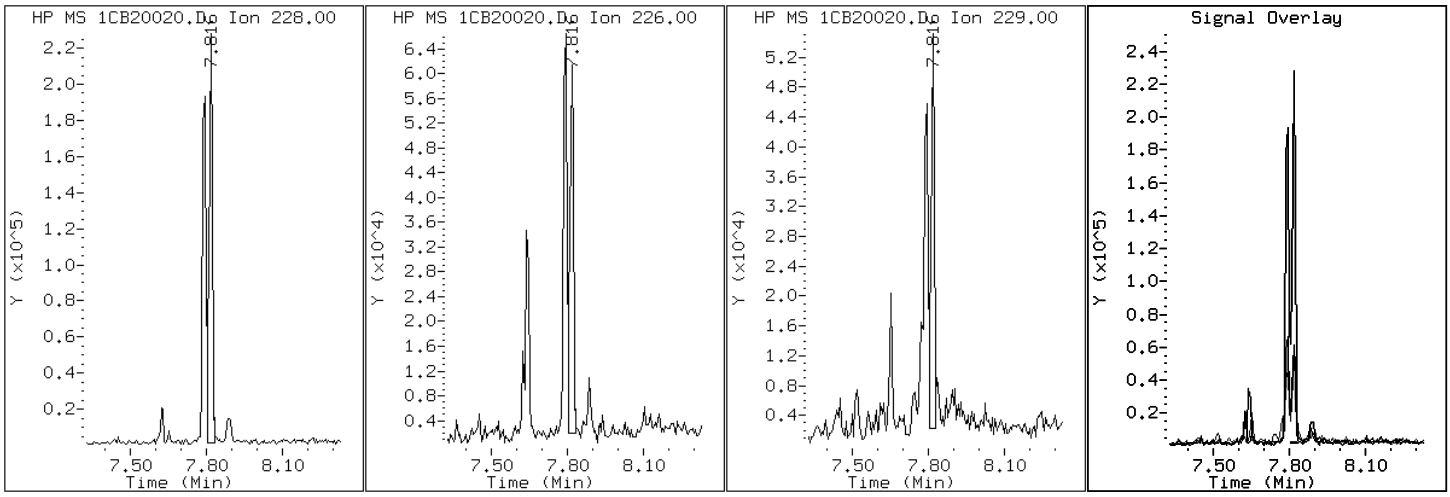
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

19 Chrysene



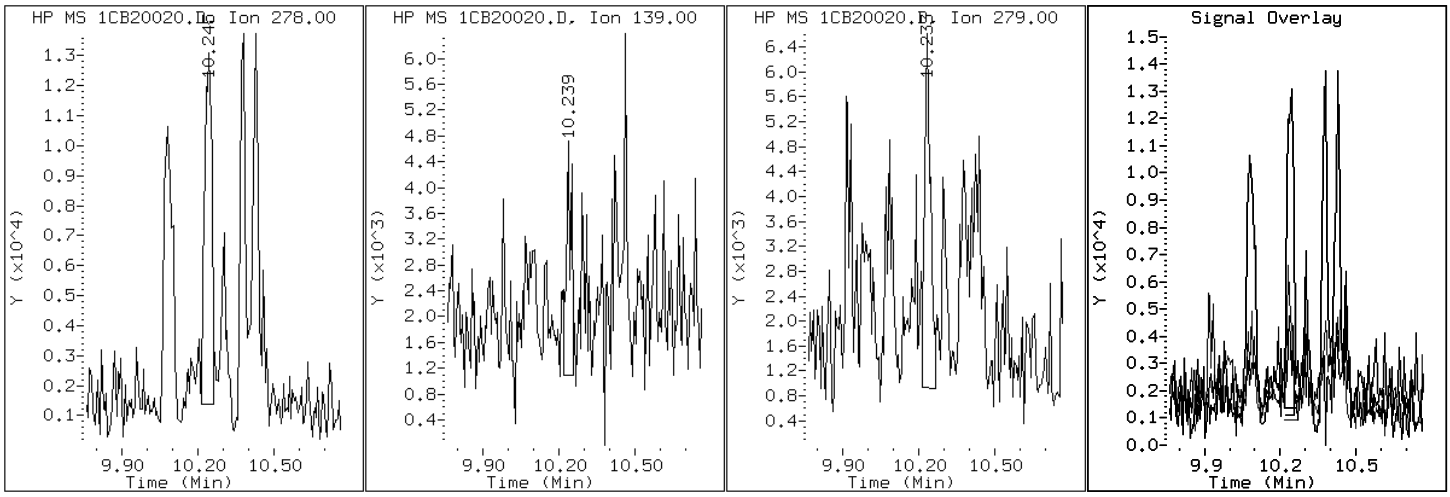
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

25 Dibenzo(a,h)anthracene



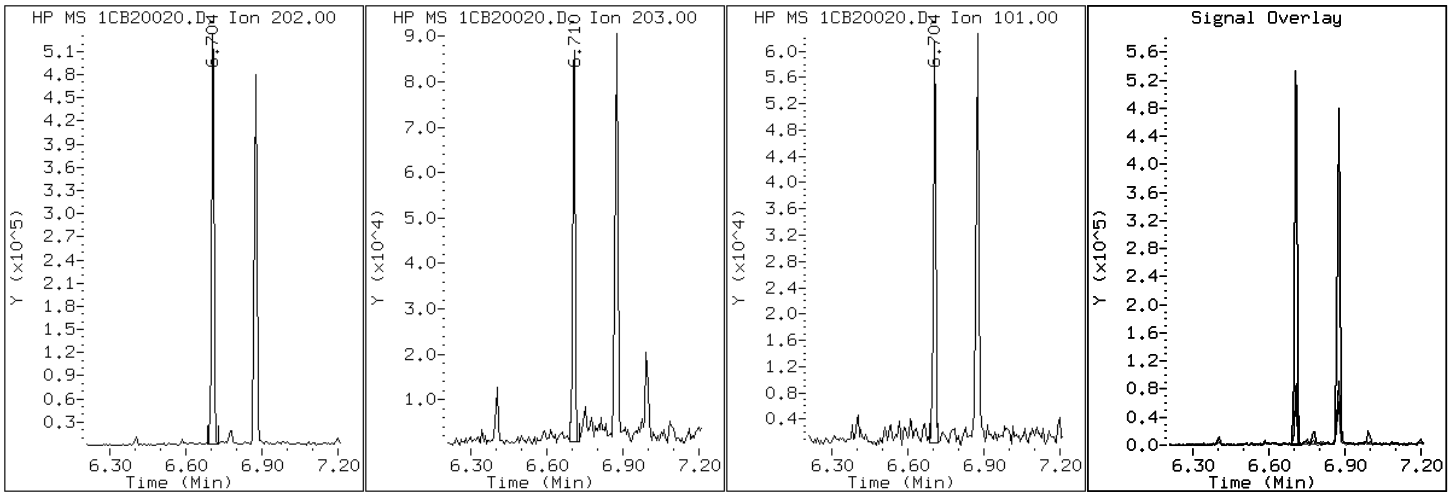
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

15 Fluoranthene



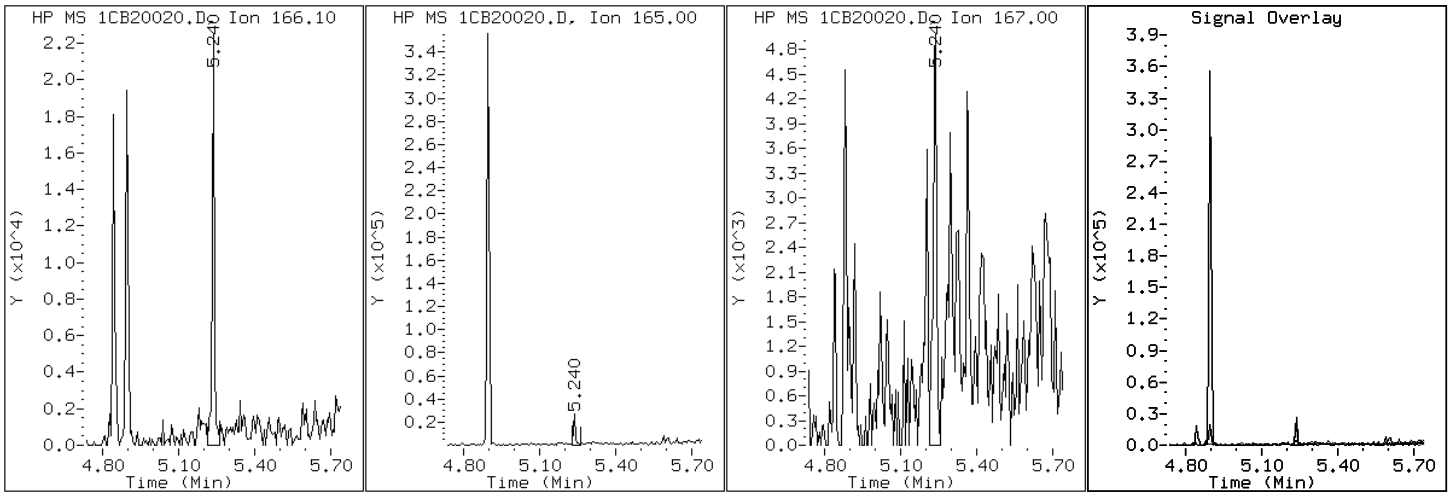
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

9 Fluorene



Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

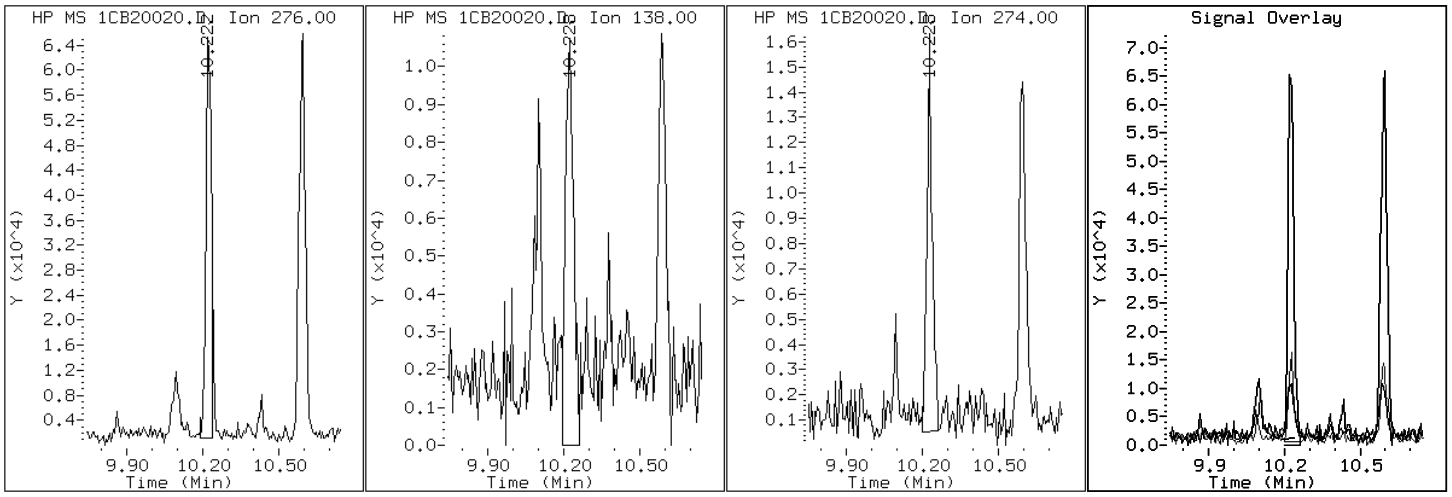
Client ID: CV0971F-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a

Operator: SCC

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



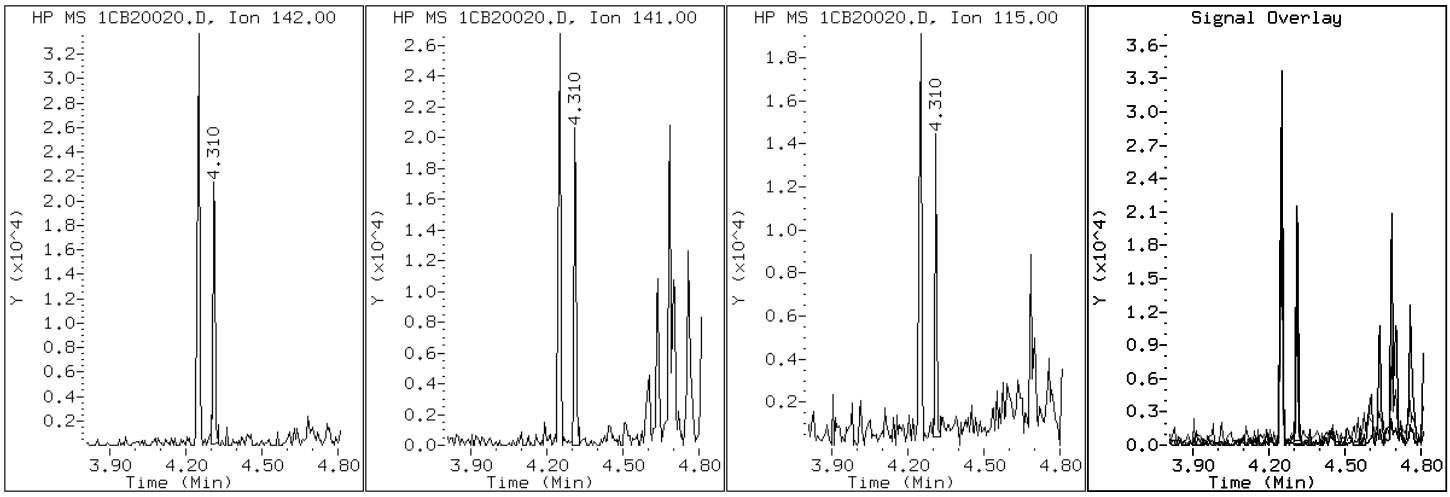
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

4 1-Methylnaphthalene



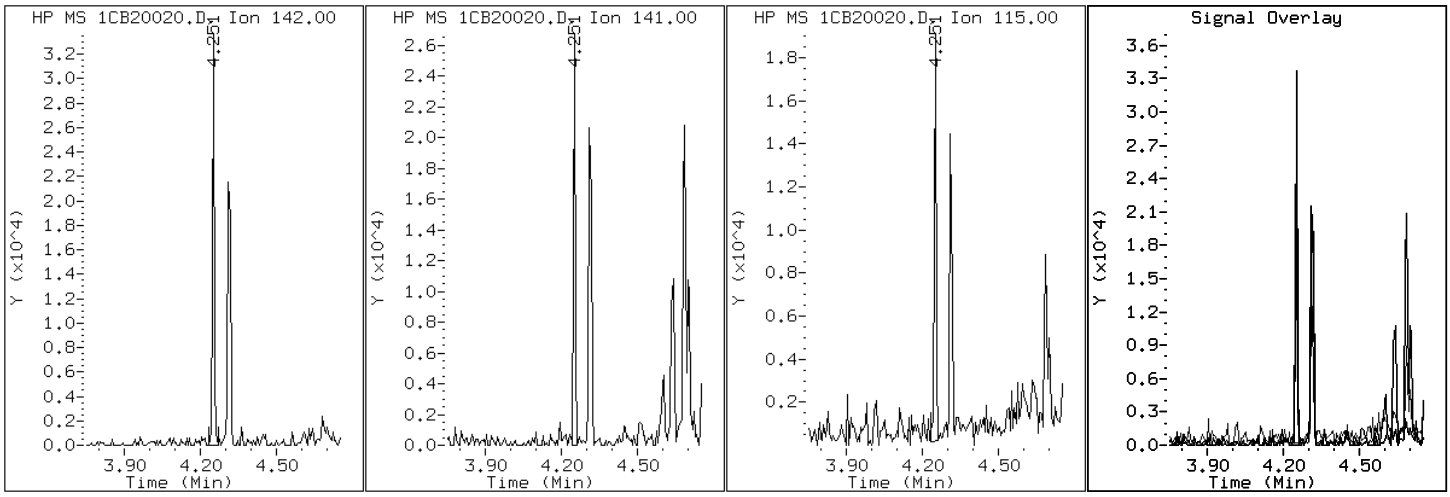
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

3 2-Methylnaphthalene



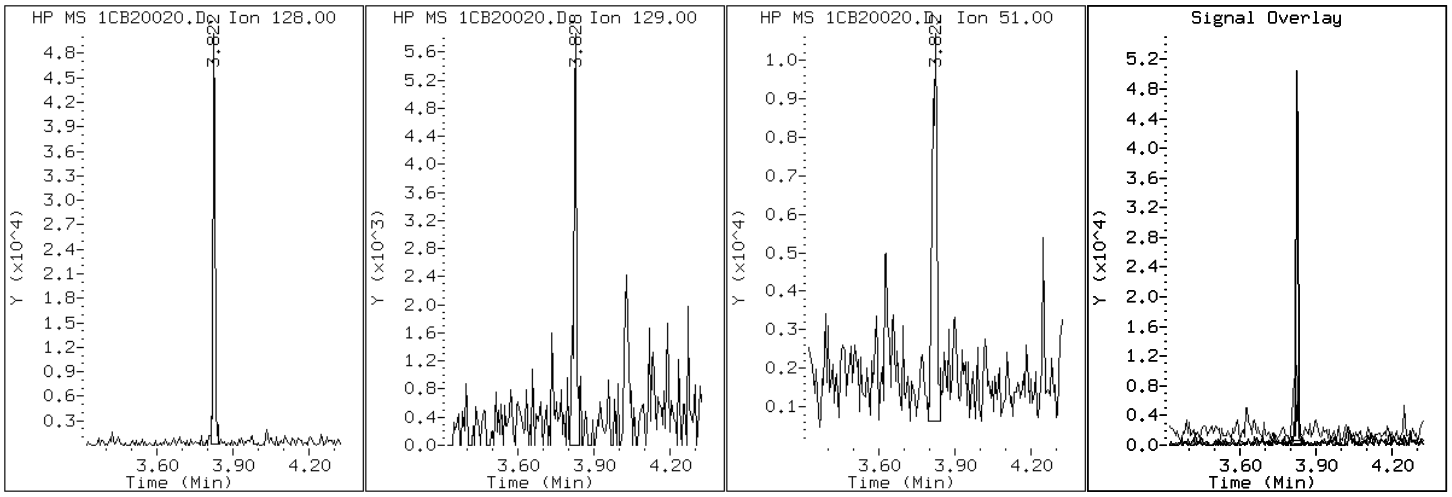
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

2 Naphthalene



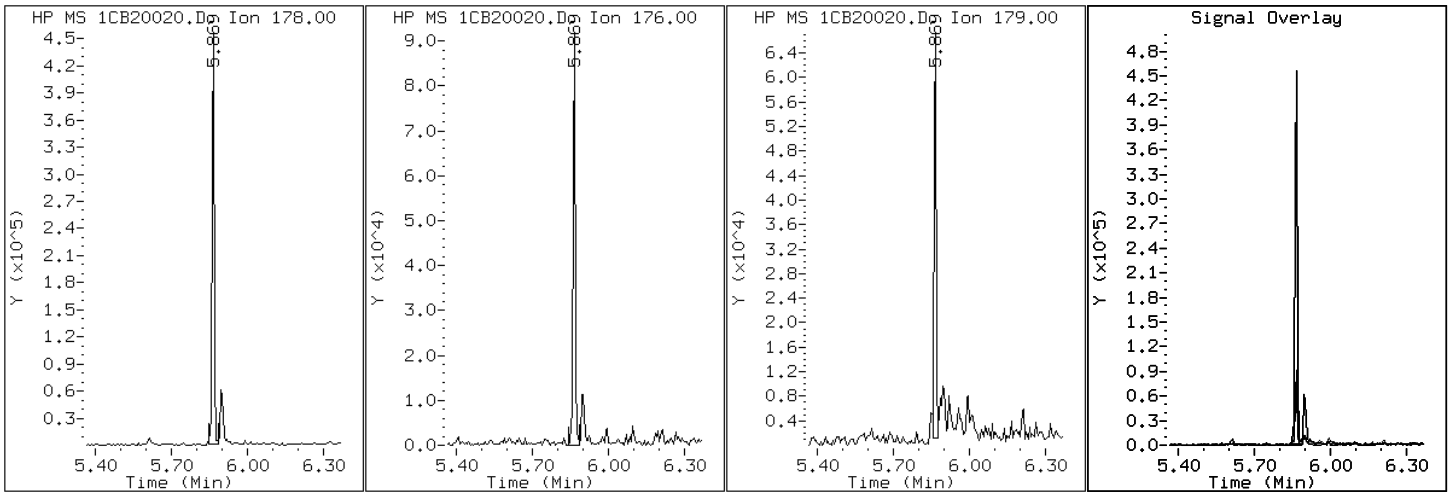
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

11 Phenanthrene



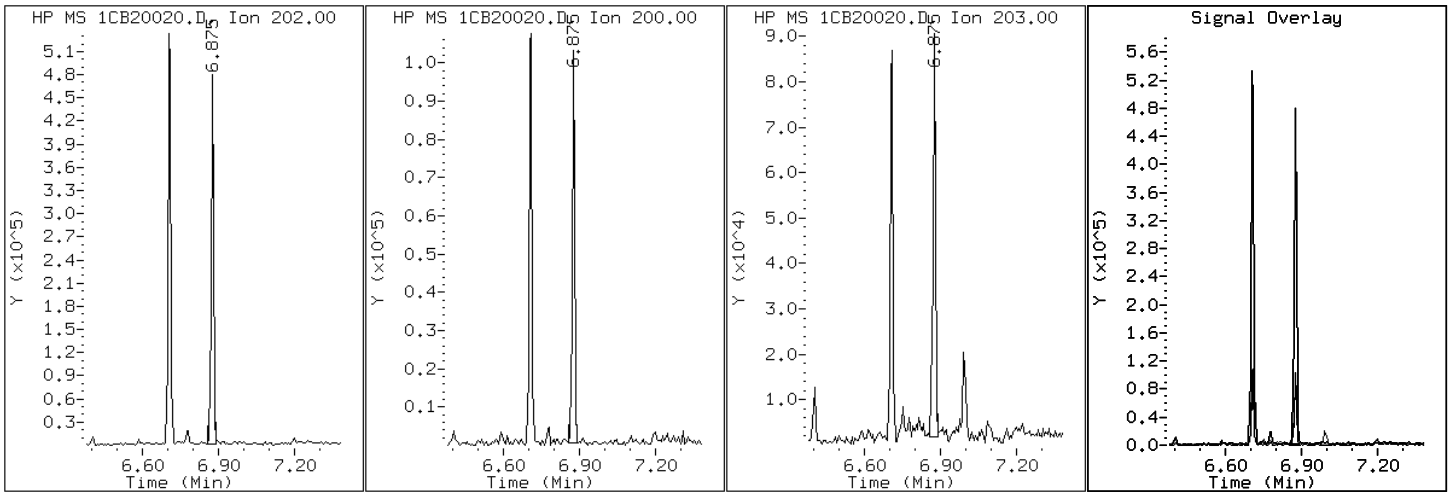
Data File: 1CB20020.D

Date: 20-FEB-2013 19:31

Client ID: CV0971F-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-7-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20020.D
Inj. Date and Time: 20-FEB-2013 19:31
Instrument ID: BSMC5973.i
Client ID: CV0971F-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

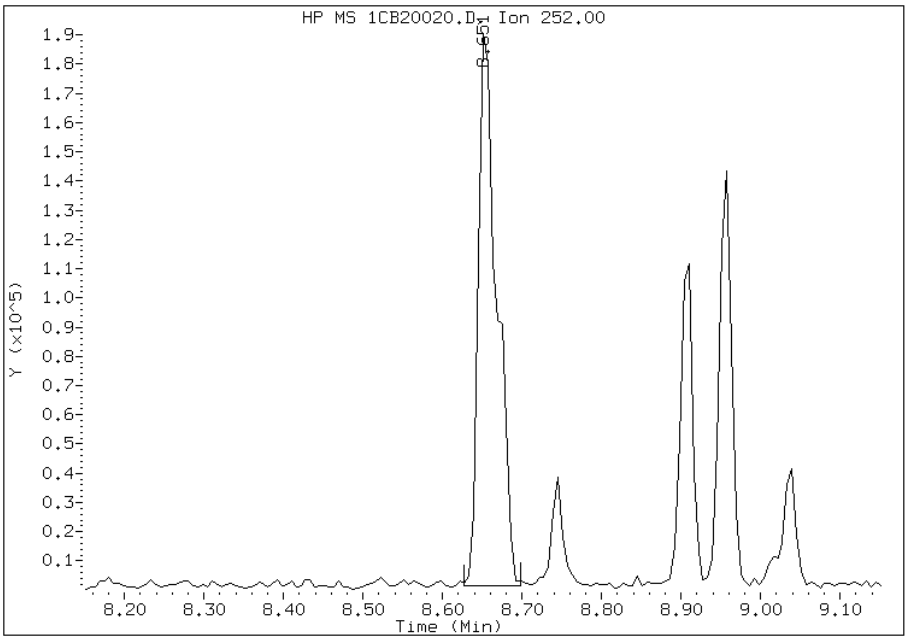
Processing Integration Results

RT: 8.65

Response: 308315

Amount: 5

Conc: 1792



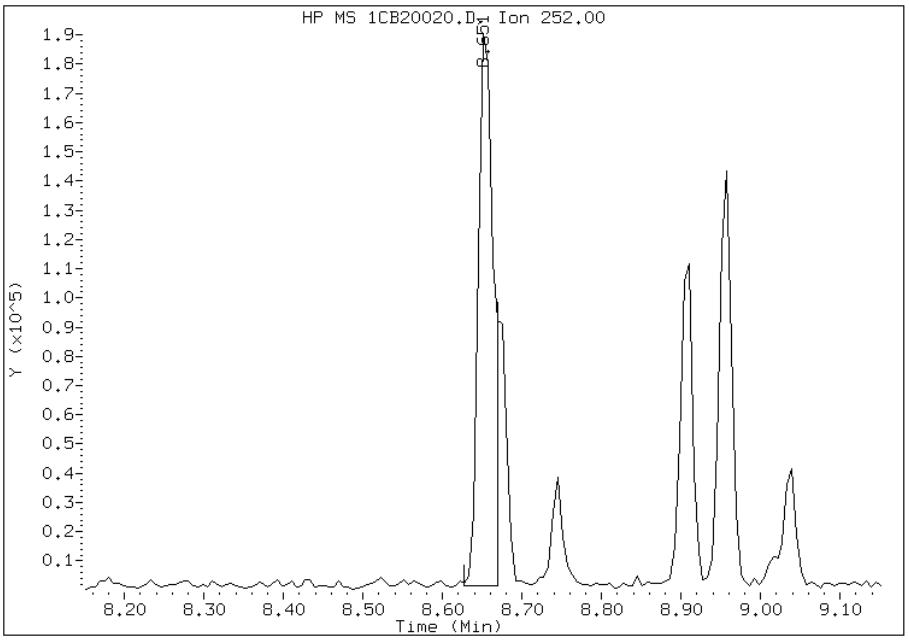
Manual Integration Results

RT: 8.65

Response: 250582

Amount: 4

Conc: 1456



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20020.D
Inj. Date and Time: 20-FEB-2013 19:31
Instrument ID: BSMC5973.i
Client ID: CV0971F-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

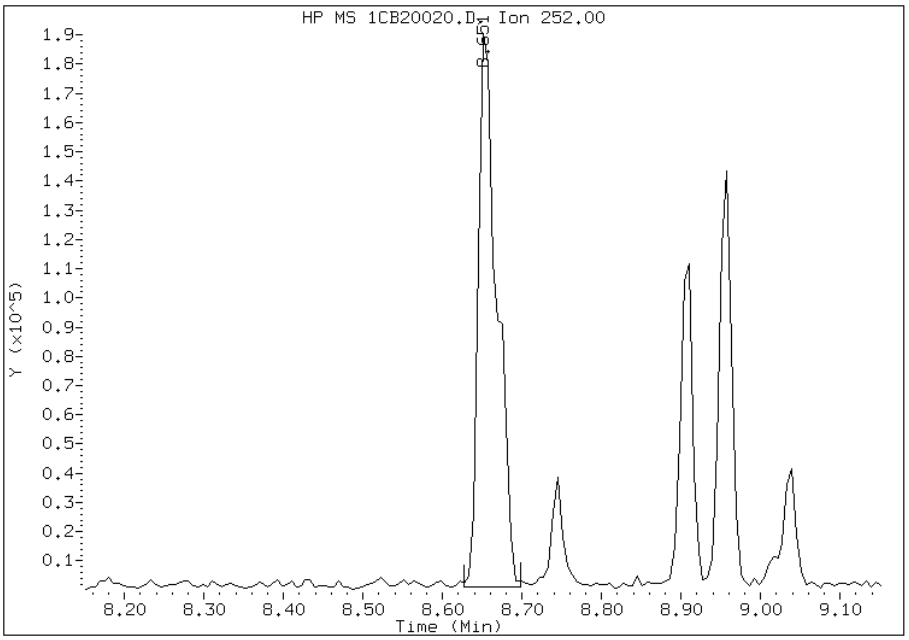
Processing Integration Results

RT: 8.65

Response: 310520

Amount: 4

Conc: 1638



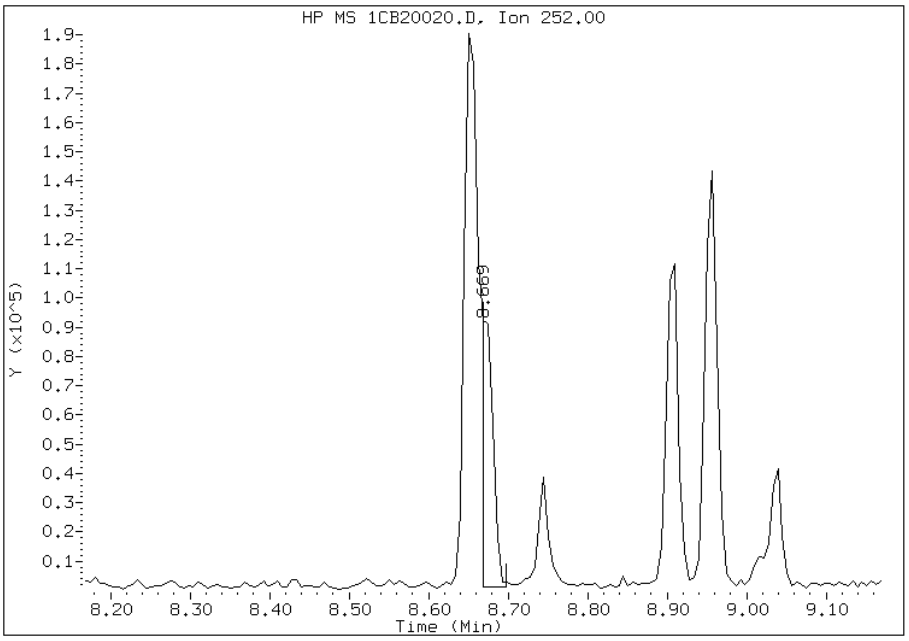
Manual Integration Results

RT: 8.67

Response: 91052

Amount: 1

Conc: 480



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20020.D
Inj. Date and Time: 20-FEB-2013 19:31
Instrument ID: BSMC5973.i
Client ID: CV0971F-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

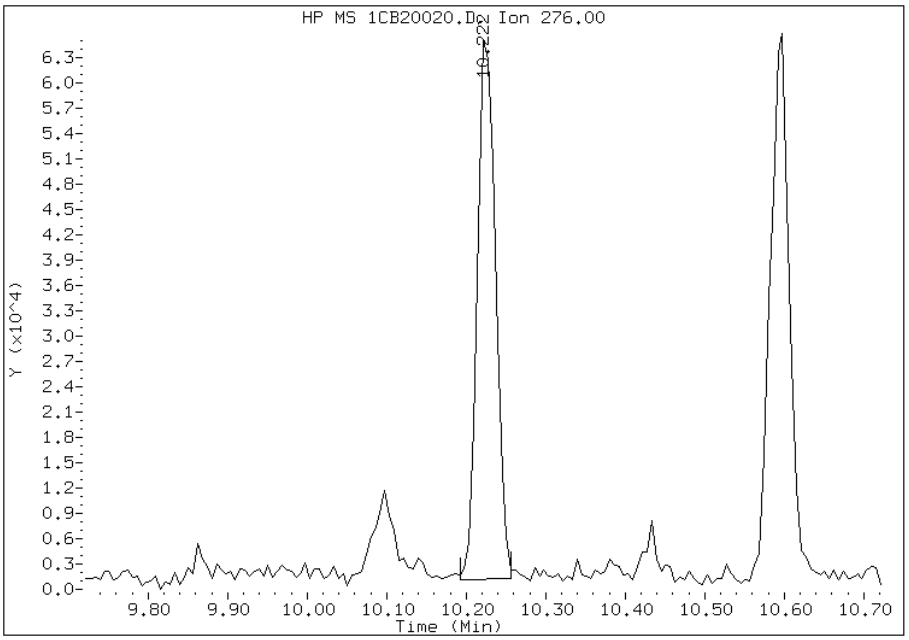
Processing Integration Results

RT: 10.22

Response: 101518

Amount: 2

Conc: 645



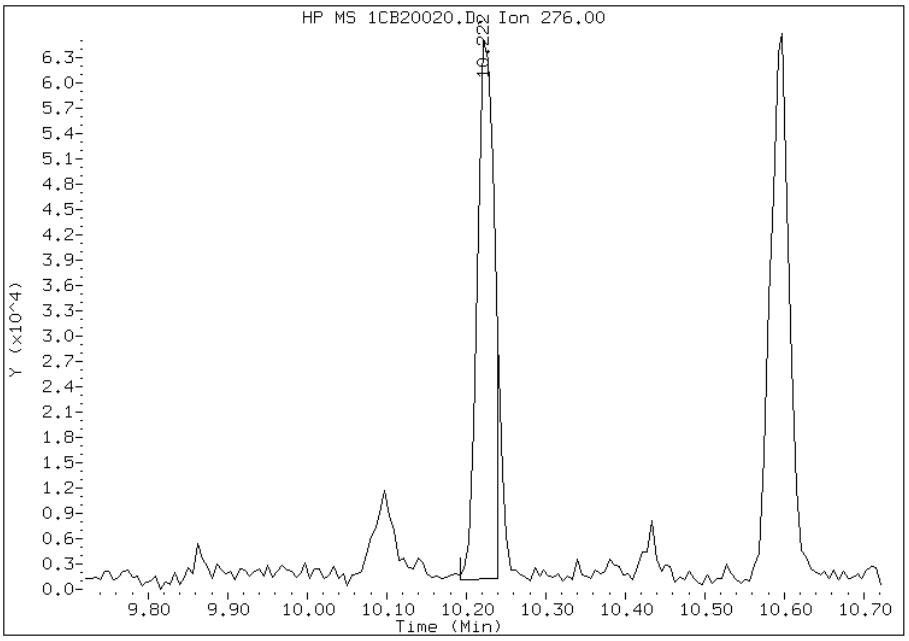
Manual Integration Results

RT: 10.22

Response: 94991

Amount: 2

Conc: 604



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971G-CS | Lab Sample ID: 680-87447-8

Matrix: Solid | Lab File ID: 1CB20021.D

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

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.05(g) | Date Analyzed: 02/20/2013 19:49

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

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

% Moisture: 33.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	11	J	60	7.5
120-12-7	Anthracene	24		13	6.3
56-55-3	Benzo[a]anthracene	140		12	5.8
50-32-8	Benzo[a]pyrene	110		16	7.8
205-99-2	Benzo[b]fluoranthene	170		18	9.1
191-24-2	Benzo[g,h,i]perylene	76		30	6.6
207-08-9	Benzo[k]fluoranthene	58		12	5.4
218-01-9	Chrysene	110		13	6.7
53-70-3	Dibenz(a,h)anthracene	22	J	30	6.1
206-44-0	Fluoranthene	230		30	6.0
86-73-7	Fluorene	9.6	J	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	74		30	11
90-12-0	1-Methylnaphthalene	20	J	60	6.6
91-57-6	2-Methylnaphthalene	21	J	60	11
91-20-3	Naphthalene	24	J	60	6.6
85-01-8	Phenanthrene	130		12	5.8
129-00-0	Pyrene	210		30	5.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20021.D
Lab Smp Id: 680-87447-A-8-A Client Smp ID: CV0971G-CS
Inj Date : 20-FEB-2013 19:49
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-8-a
Misc Info : 680-87447-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	33.394	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2263733	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1732437	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3111772	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	302499	6.63454	661.8570
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3236145	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3027580	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	14698	0.24502	24.4434(Q)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	8060	0.20664	20.6146
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	7085	0.19972	19.9243
5 Acenaphthylene	152	4.810	4.810	(0.982)	7842	0.11378	11.3504
9 Fluorene	166	5.239	5.239	(1.070)	5317	0.09582	9.5588
11 Phenanthrene	178	5.863	5.869	(1.002)	116987	1.25949	125.6460
12 Anthracene	178	5.898	5.904	(1.008)	19855	0.23726	23.6685
13 Carbazole	167	6.004	6.010	(1.026)	13051	0.17954	17.9108

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.710	(1.146)	210621	2.32062	231.5029
16 Pyrene	202	6.874	6.880	(0.882)	184649	2.14324	213.8082
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	120895	1.35470	135.1439
19 Chrysene	228	7.815	7.827	(1.002)	105550	1.14503	114.2269
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	128051	1.72514	172.0988(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	47809	0.58466	58.3248(M)
22 Benzo(a)pyrene	252	8.957	8.968	(0.993)	75393	1.06743	106.4858
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	50062	0.73795	73.6175(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	13840	0.21634	21.5818
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	52724	0.76510	76.3260

QC Flag Legend

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

Data File: 1CB20021.D

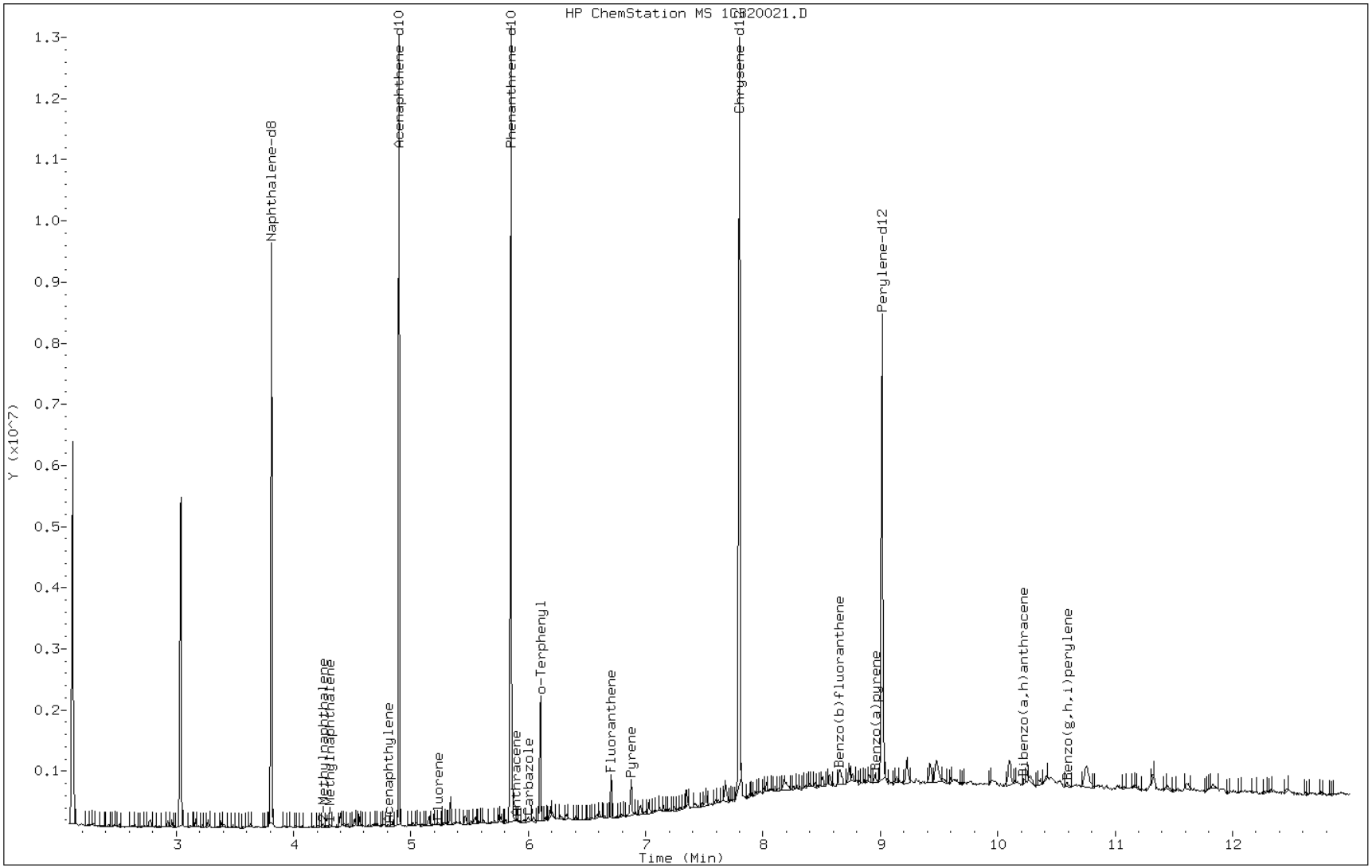
Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a

Operator: SCC



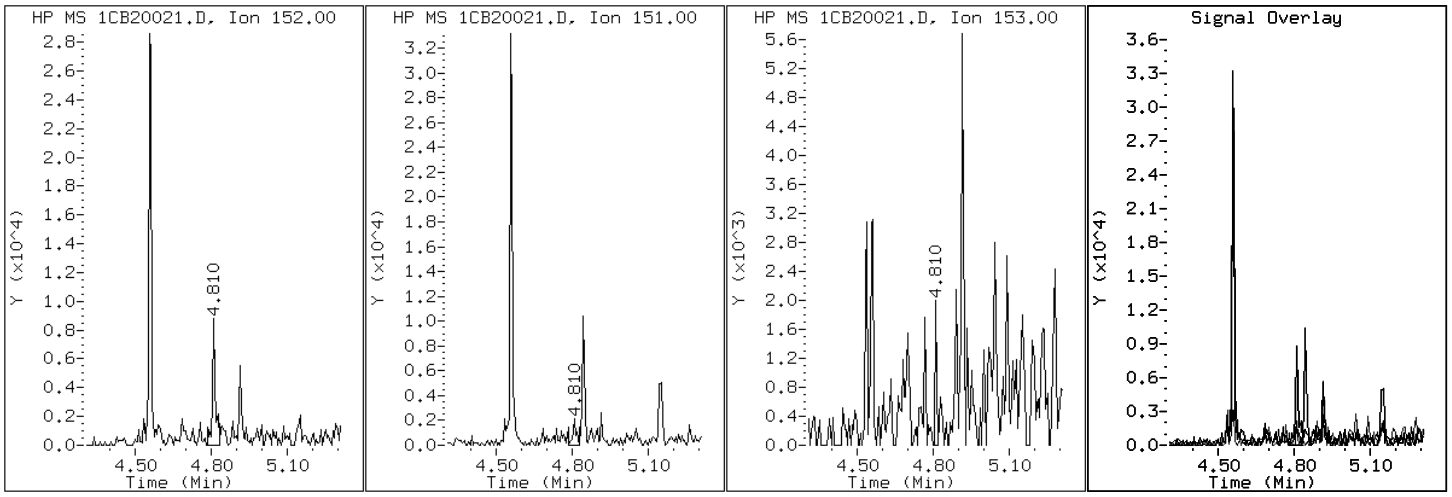
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

5 Acenaphthylene



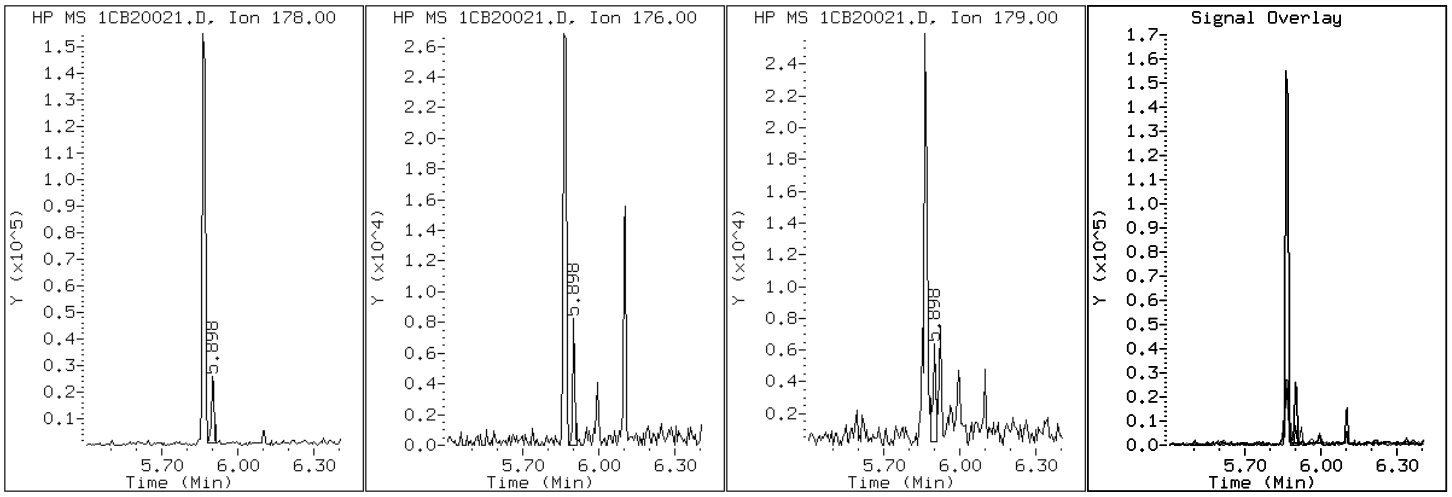
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

12 Anthracene



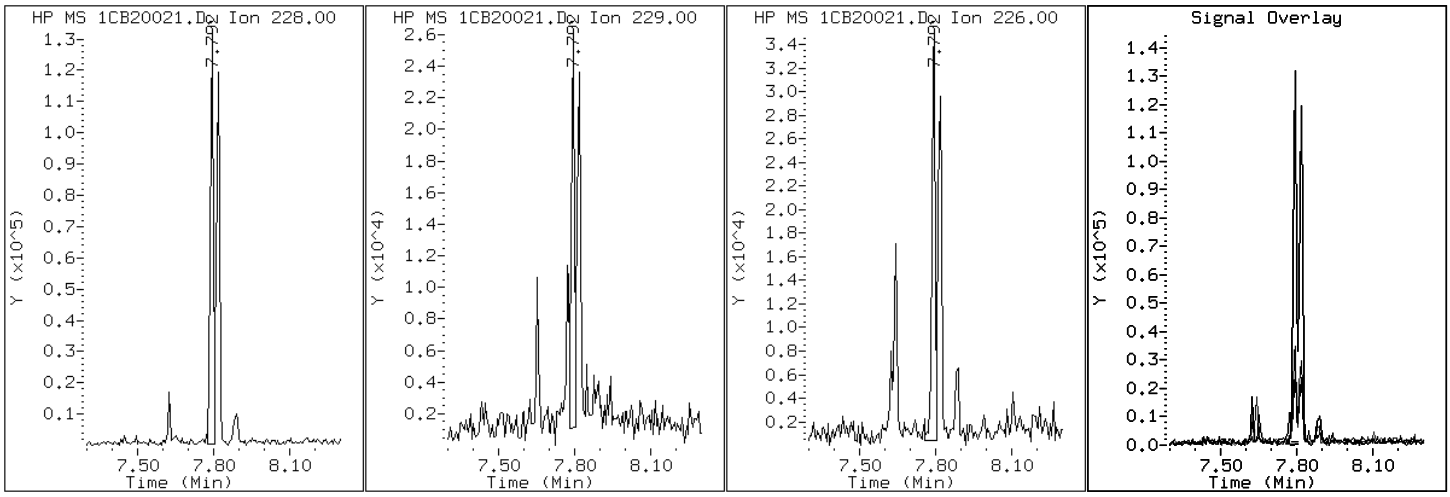
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

17 Benzo(a)anthracene



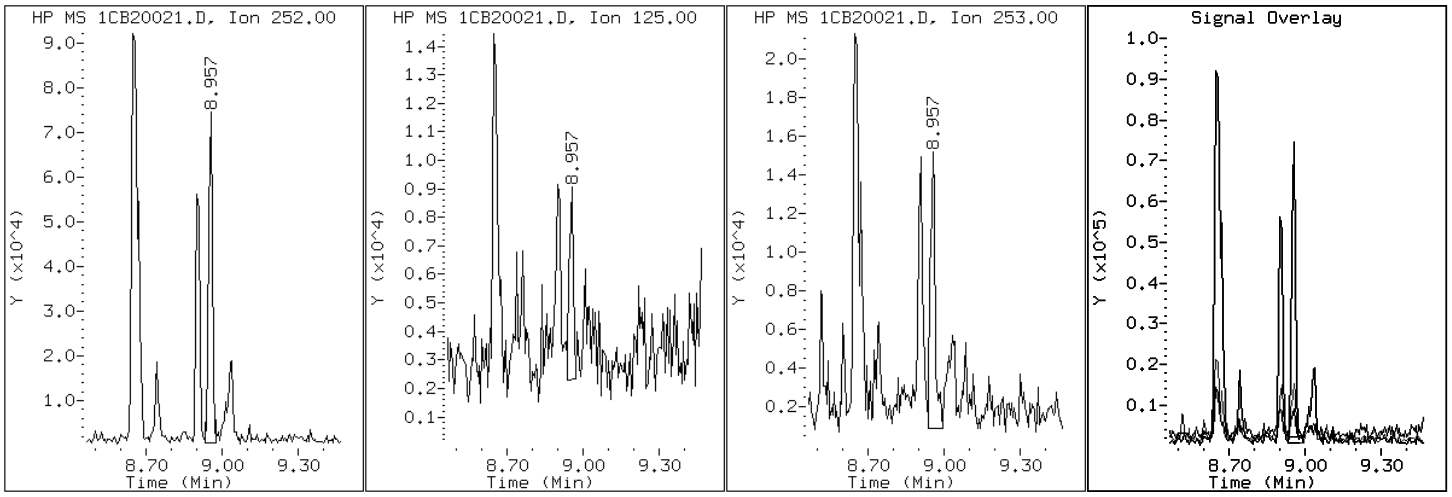
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

22 Benzo(a)pyrene



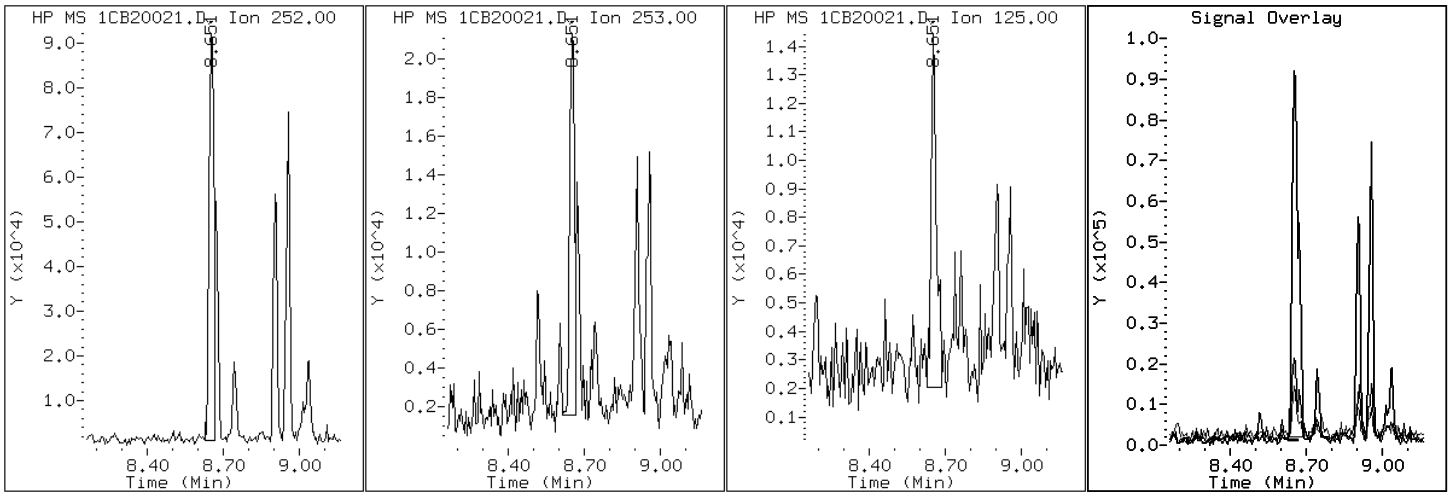
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

20 Benzo(b)fluoranthene



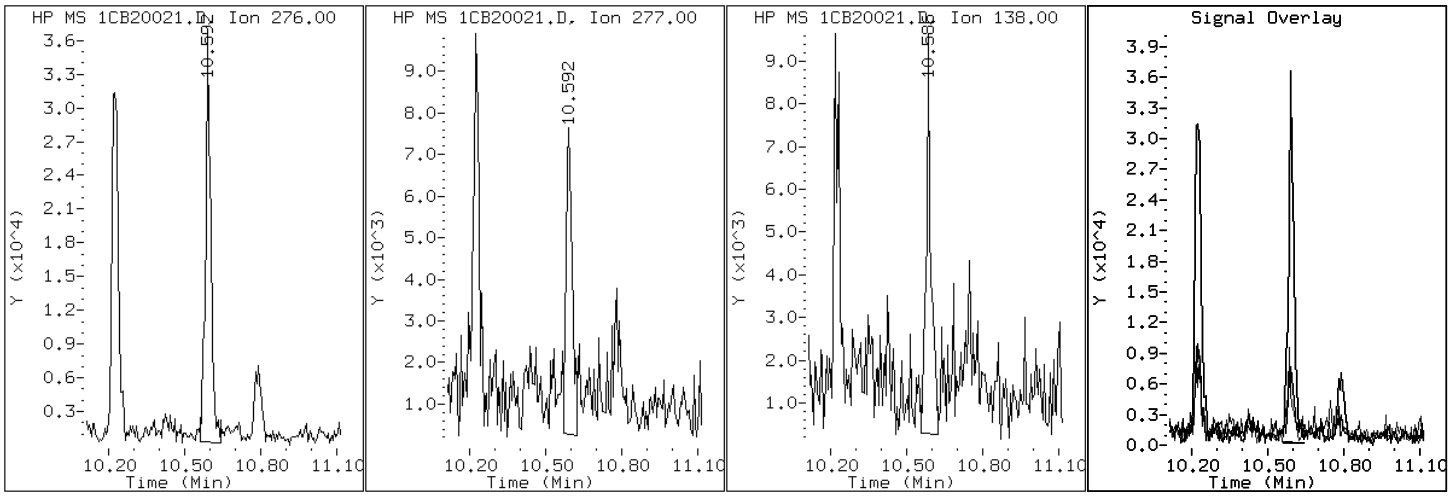
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

26 Benzo(g,h,i)perylene



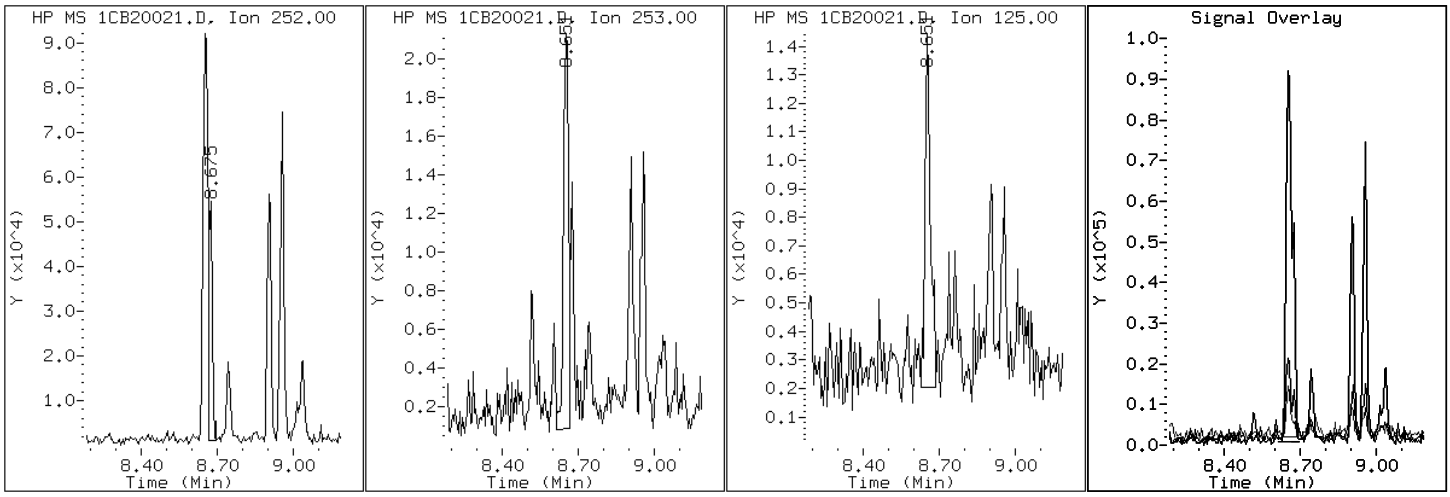
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

21 Benzo(k)fluoranthene



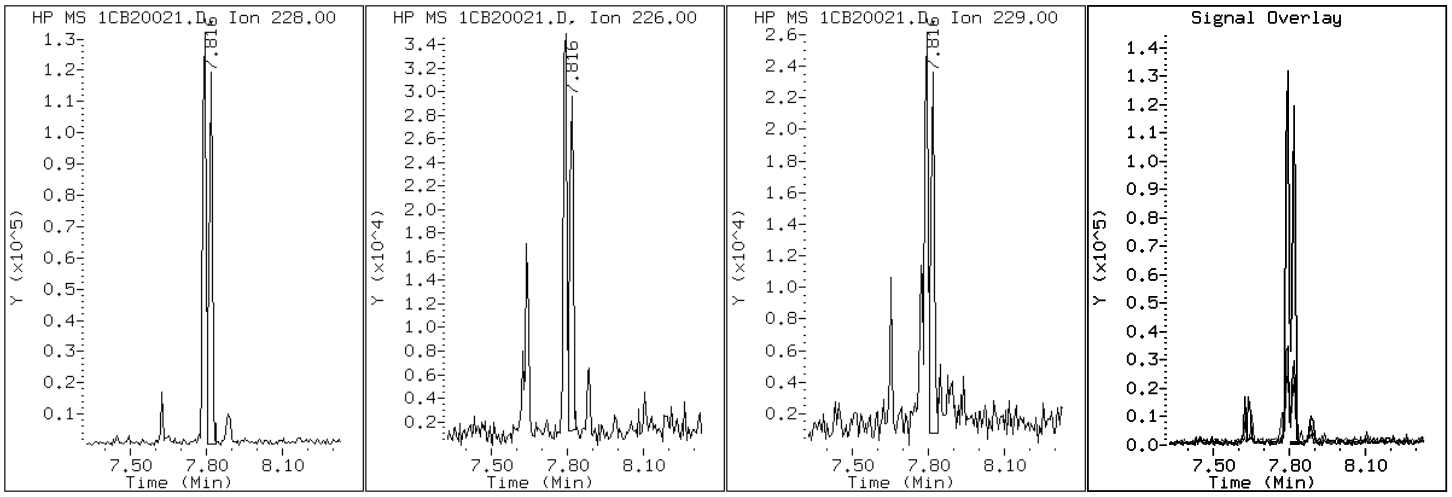
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

19 Chrysene



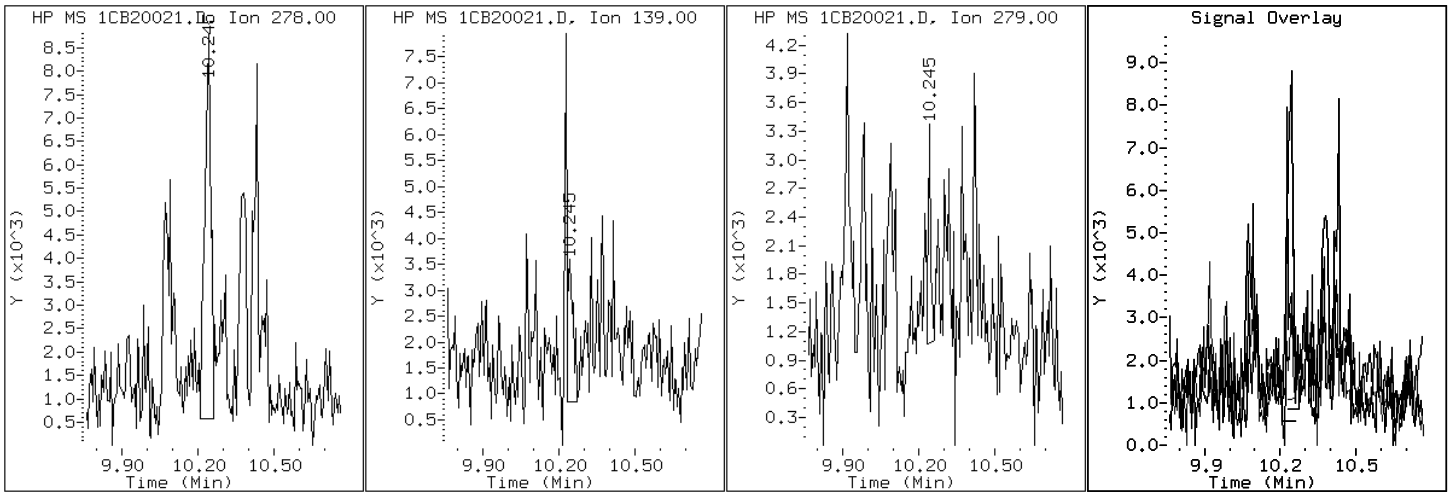
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

25 Dibenzo(a,h)anthracene



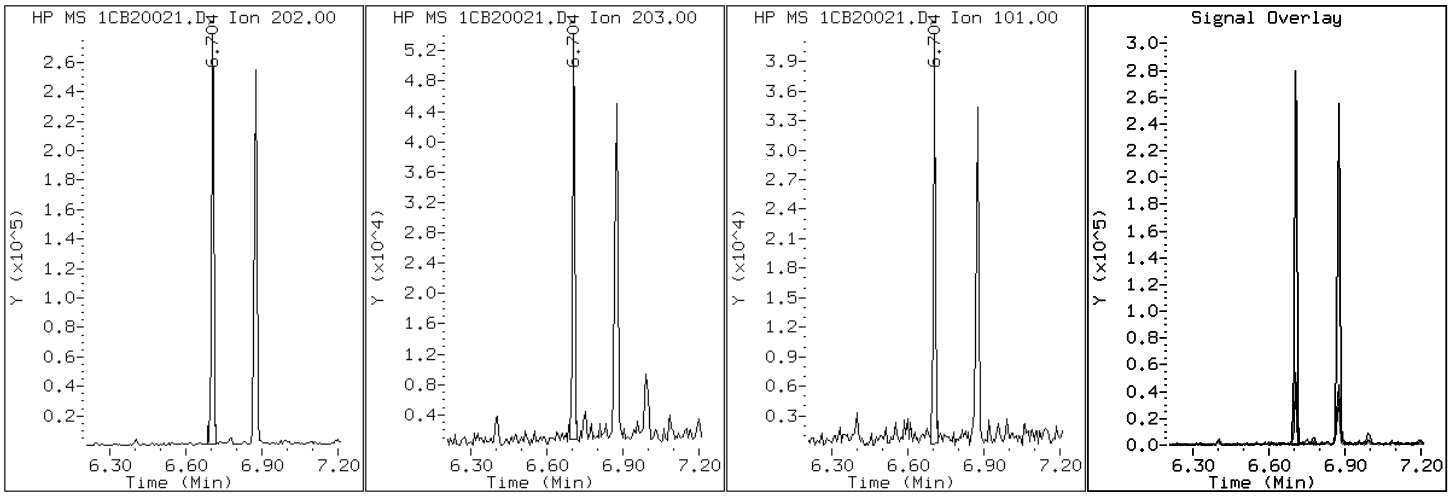
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

15 Fluoranthene



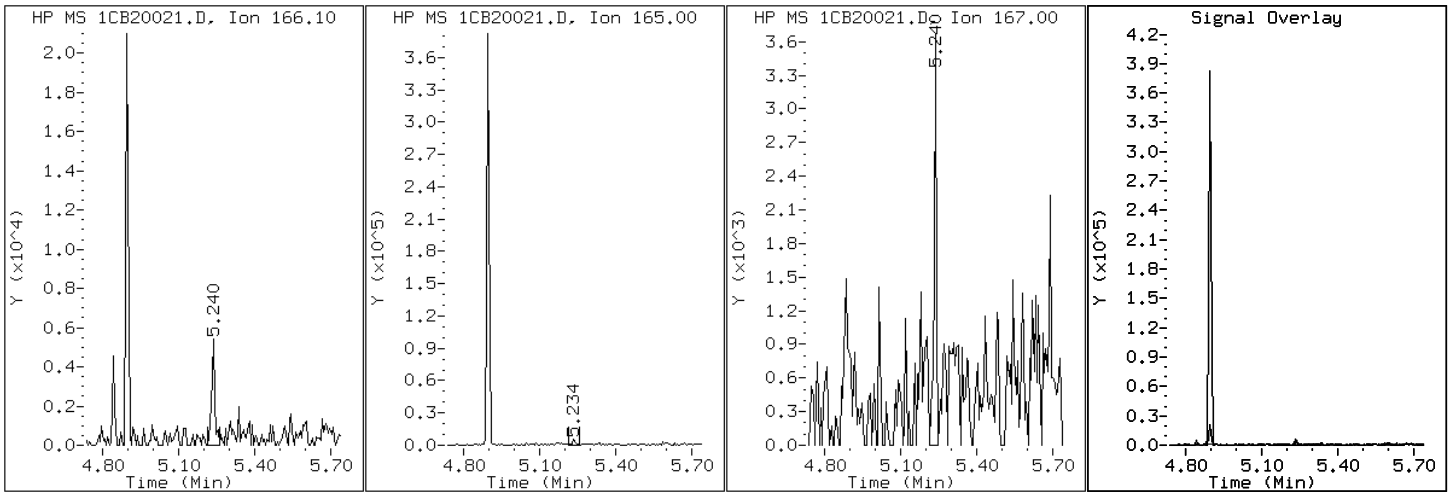
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

9 Fluorene



Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

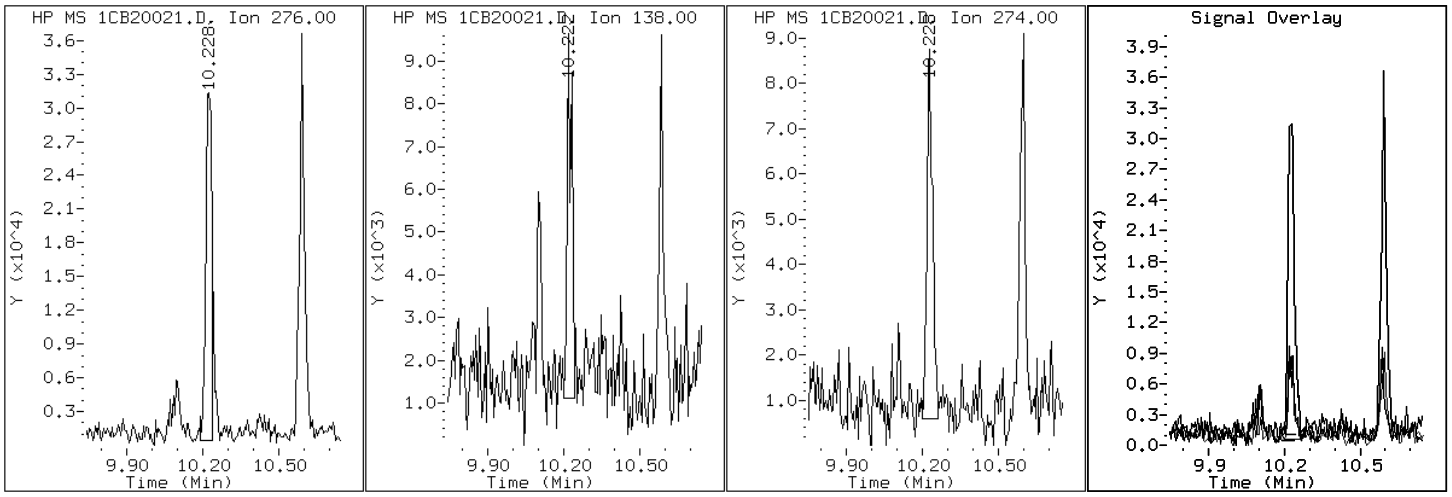
Client ID: CV0971G-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a

Operator: SCC

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



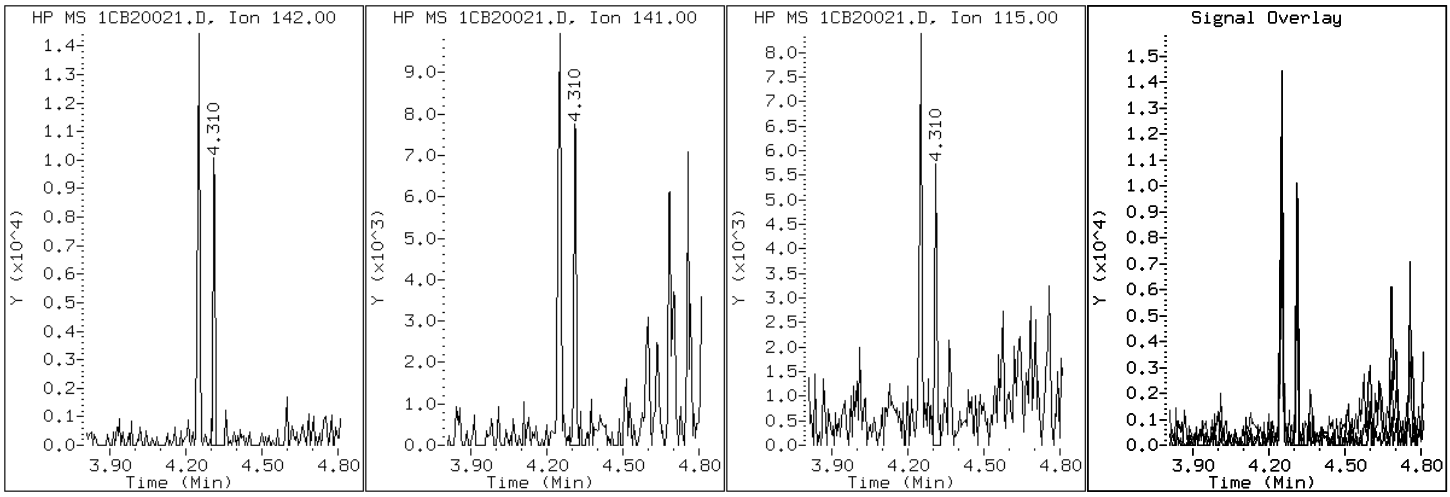
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

4 1-Methylnaphthalene



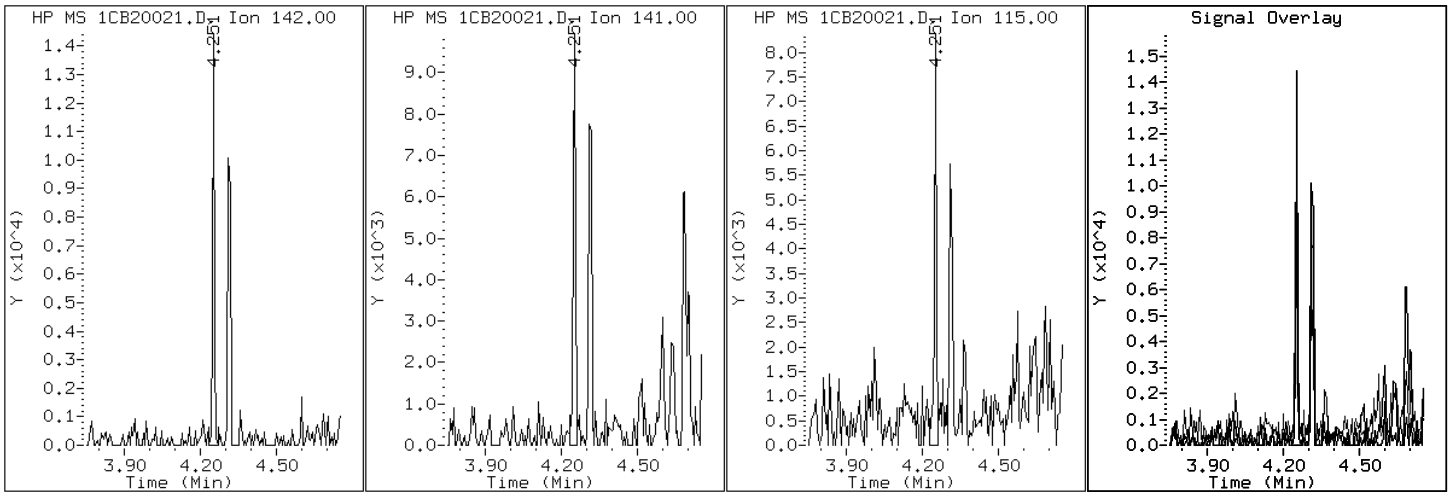
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

3 2-Methylnaphthalene



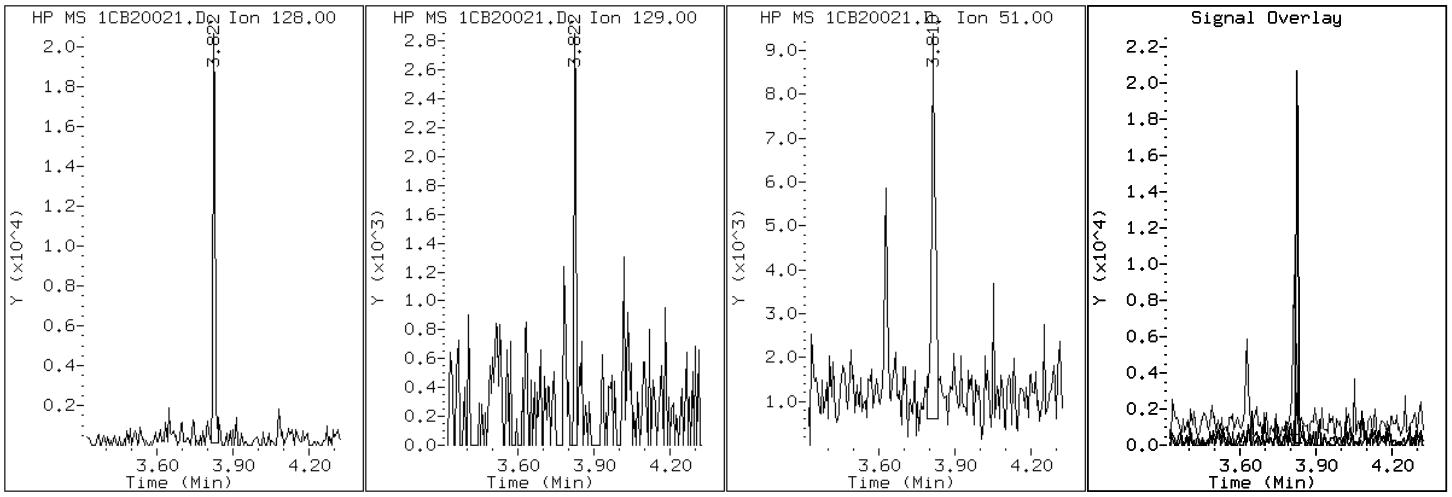
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

2 Naphthalene



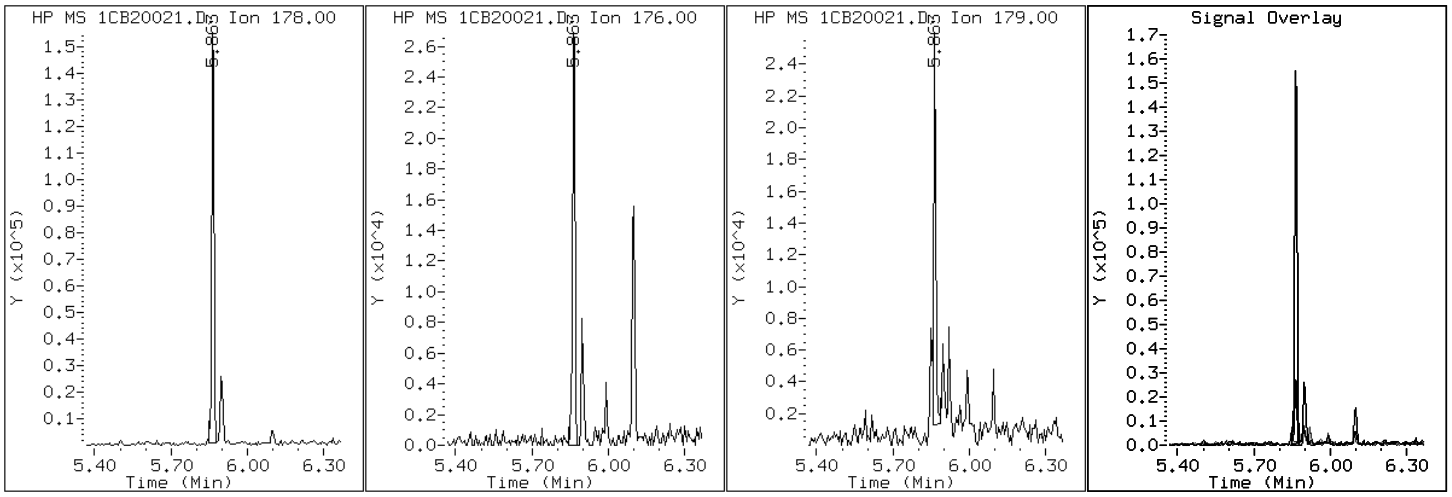
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

11 Phenanthrene



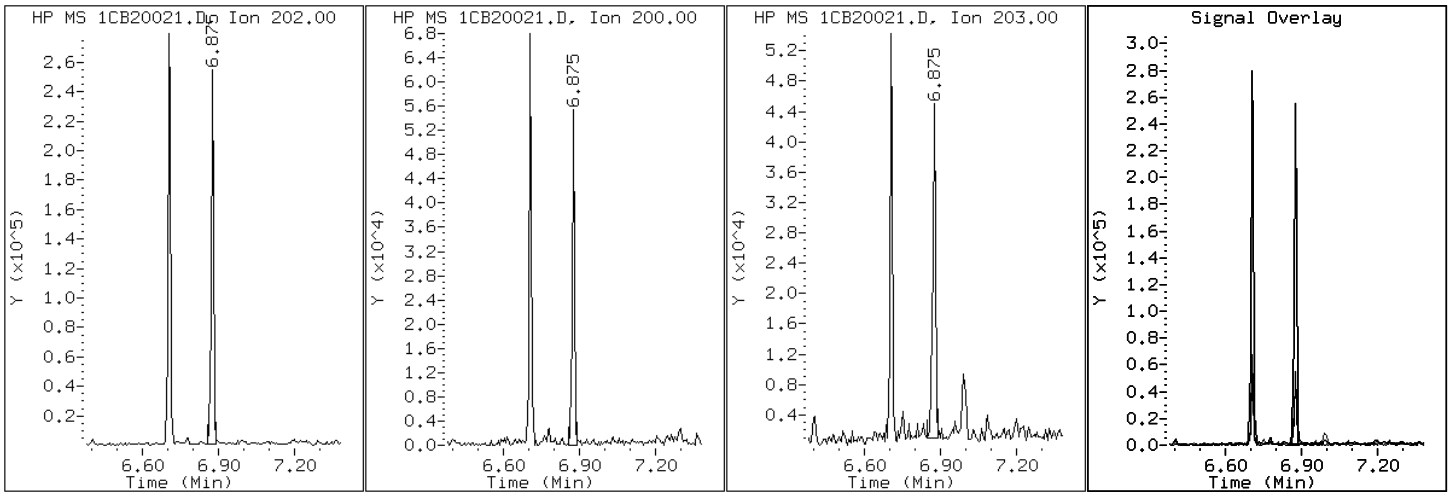
Data File: 1CB20021.D

Date: 20-FEB-2013 19:49

Client ID: CV0971G-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-8-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20021.D
Inj. Date and Time: 20-FEB-2013 19:49
Instrument ID: BSMC5973.i
Client ID: CV0971G-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

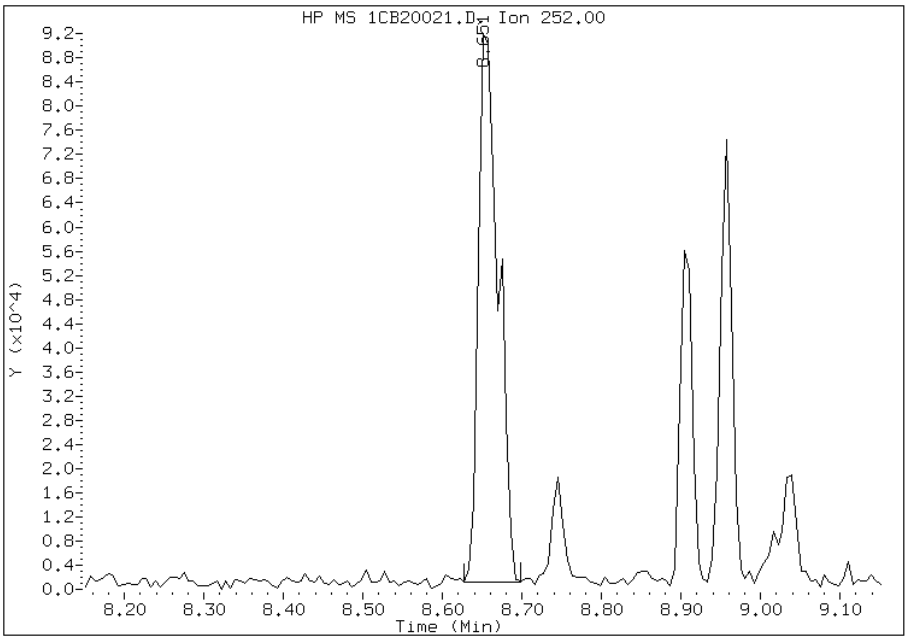
Processing Integration Results

RT: 8.65

Response: 159673

Amount: 2

Conc: 215



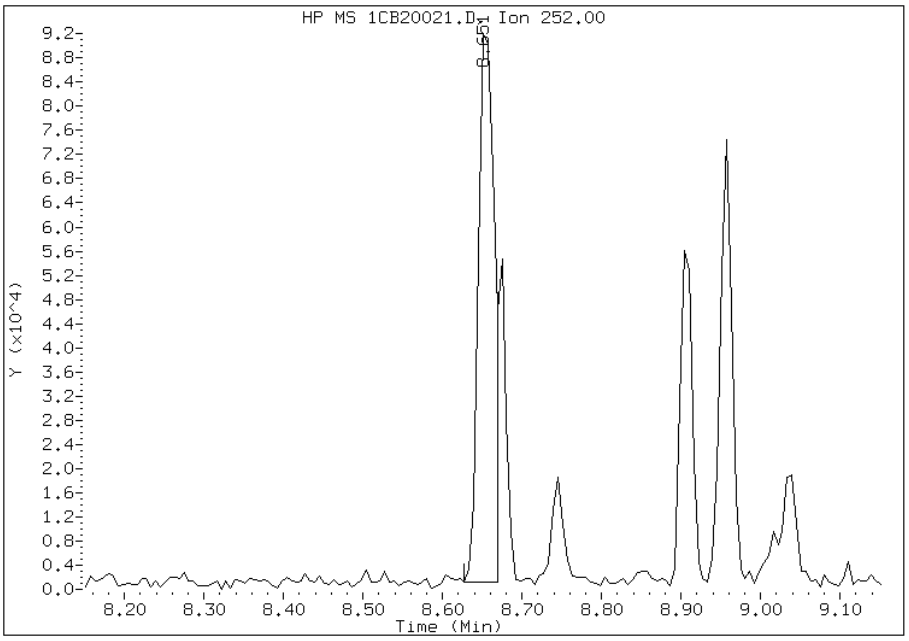
Manual Integration Results

RT: 8.65

Response: 128051

Amount: 2

Conc: 172



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20021.D
Inj. Date and Time: 20-FEB-2013 19:49
Instrument ID: BSMC5973.i
Client ID: CV0971G-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

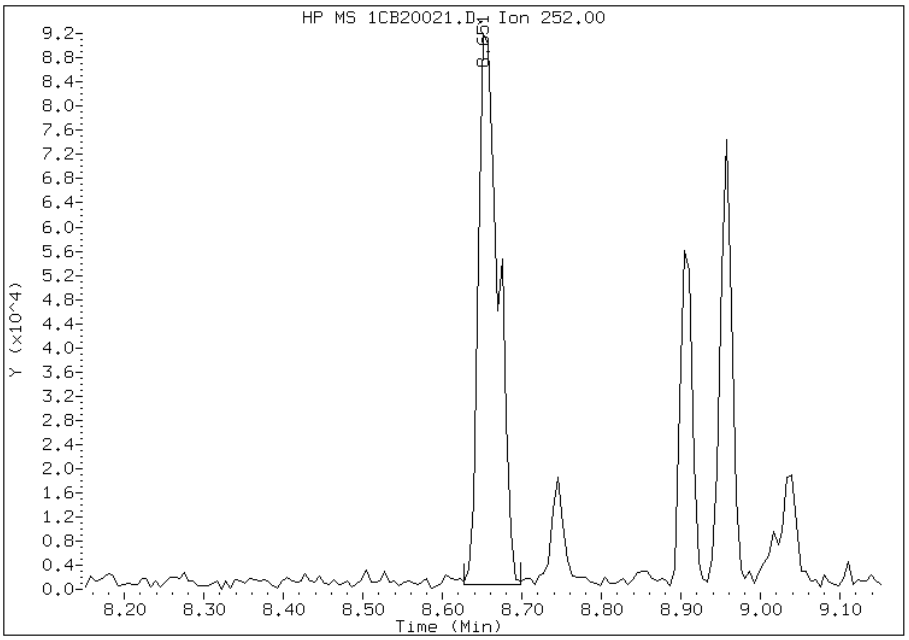
Processing Integration Results

RT: 8.65

Response: 160962

Amount: 2

Conc: 196



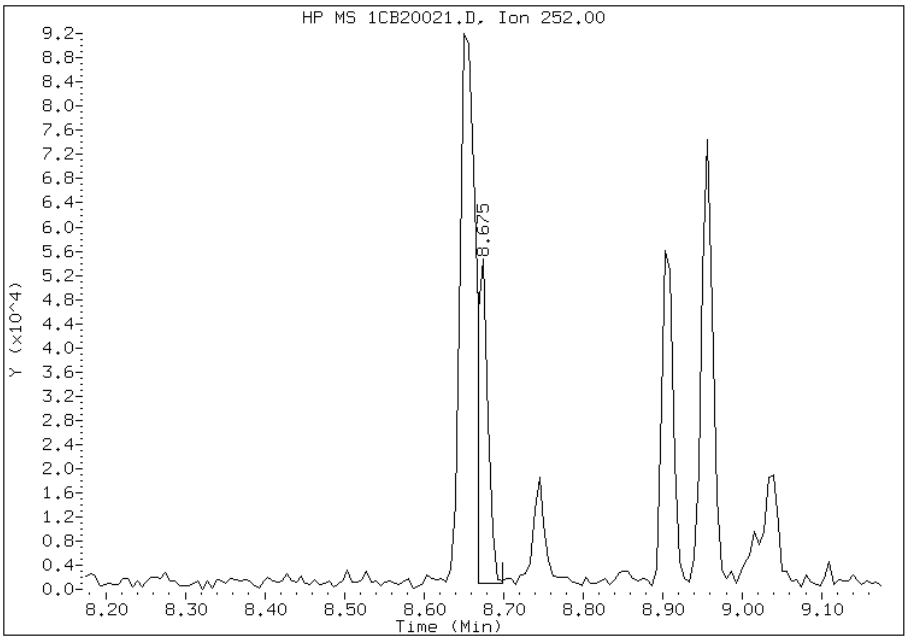
Manual Integration Results

RT: 8.67

Response: 47809

Amount: 1

Conc: 58



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20021.D
Inj. Date and Time: 20-FEB-2013 19:49
Instrument ID: BSMC5973.i
Client ID: CV0971G-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

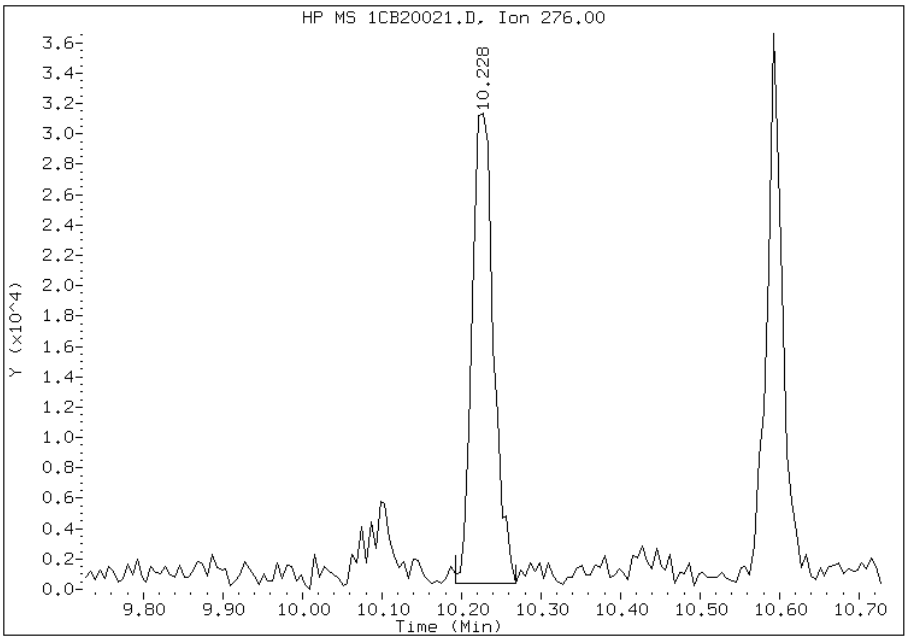
Processing Integration Results

RT: 10.23

Response: 57545

Amount: 1

Conc: 85



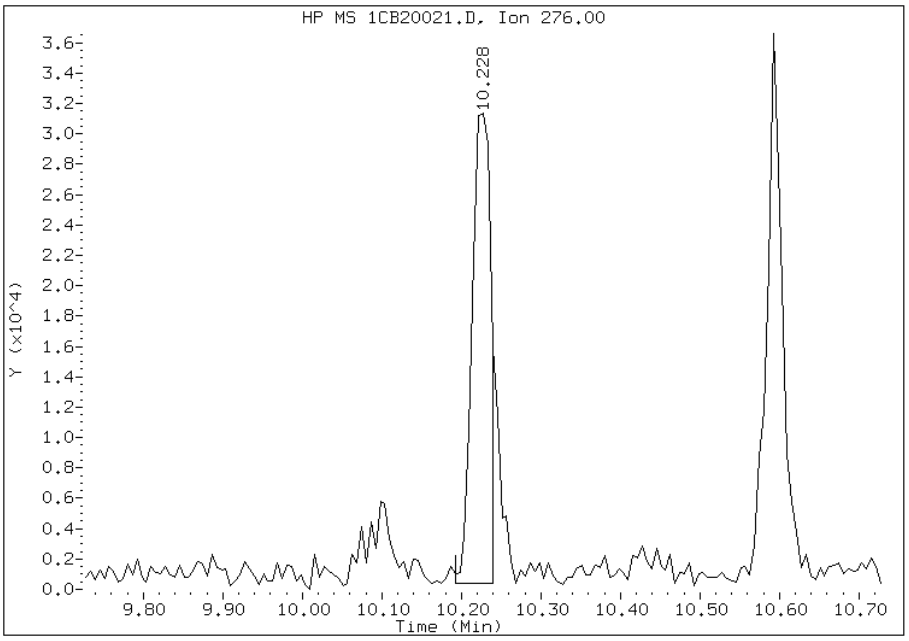
Manual Integration Results

RT: 10.23

Response: 50062

Amount: 1

Conc: 74



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971H-CS | Lab Sample ID: 680-87447-9

Matrix: Solid | Lab File ID: 1CB20022.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 09:23

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.01(g) | Date Analyzed: 02/20/2013 20:07

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

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

% Moisture: 27.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	39	J	220	28
120-12-7	Anthracene	86		46	23
56-55-3	Benzo[a]anthracene	290		44	22
50-32-8	Benzo[a]pyrene	230		57	29
205-99-2	Benzo[b]fluoranthene	480		67	34
191-24-2	Benzo[g,h,i]perylene	180		110	24
207-08-9	Benzo[k]fluoranthene	170		44	20
218-01-9	Chrysene	310		50	25
53-70-3	Dibenz(a,h)anthracene	47	J	110	23
206-44-0	Fluoranthene	560		110	22
86-73-7	Fluorene	23	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	150		110	39
90-12-0	1-Methylnaphthalene	81	J	220	24
91-57-6	2-Methylnaphthalene	63	J	220	39
91-20-3	Naphthalene	74	J	220	24
85-01-8	Phenanthrene	230		44	22
129-00-0	Pyrene	450		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20022.D
Lab Smp Id: 680-87447-A-9-A Client Smp ID: CV0971H-CS
Inj Date : 20-FEB-2013 20:07
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-9-a
Misc Info : 680-87447-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 22
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	27.604	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2042447	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1566386	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2888156	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	91471	2.16151	795.6520
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	2999748	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2866658	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	10922	0.20180	74.2835(Q)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	5993	0.17030	62.6861
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	7038	0.21989	80.9432
5 Acenaphthylene	152	4.810	4.810	(0.982)	6522	0.10466	38.5244
9 Fluorene	166	5.239	5.239	(1.070)	3088	0.06155	22.6562(Q)
11 Phenanthrene	178	5.868	5.869	(1.003)	53150	0.61652	226.9414
12 Anthracene	178	5.898	5.904	(1.008)	18097	0.23299	85.7644
13 Carbazole	167	6.004	6.010	(1.026)	11549	0.17118	63.0108

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.710	(1.146)	128332	1.52343	560.7758
16 Pyrene	202	6.874	6.880	(0.882)	97027	1.21495	447.2246
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	65165	0.78776	289.9733
19 Chrysene	228	7.815	7.827	(1.002)	72100	0.84379	310.5996
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	91956	1.30840	481.6230(M)
21 Benzo(k)fluoranthene	252	8.668	8.686	(0.962)	34851	0.45012	165.6881(M)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	42497	0.63546	233.9112
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.245	(1.135)	26770	0.41676	153.4099(M)
25 Dibenzo(a,h)anthracene	278	10.239	10.262	(1.136)	7791	0.12862	47.3454(Q)
26 Benzo(g,h,i)perylene	276	10.598	10.615	(1.176)	32707	0.50127	184.5174

QC Flag Legend

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

Data File: 1CB20022.D

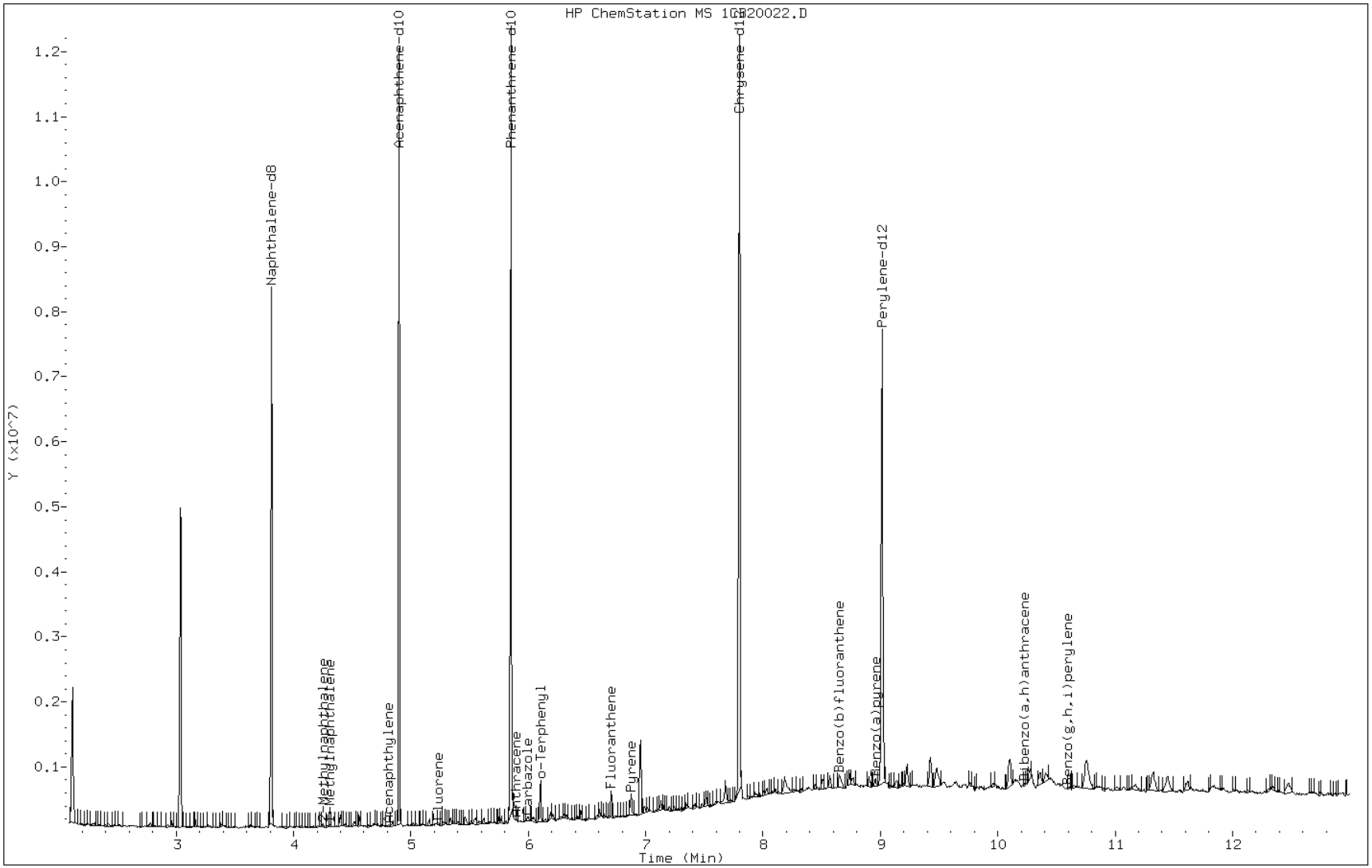
Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a

Operator: SCC



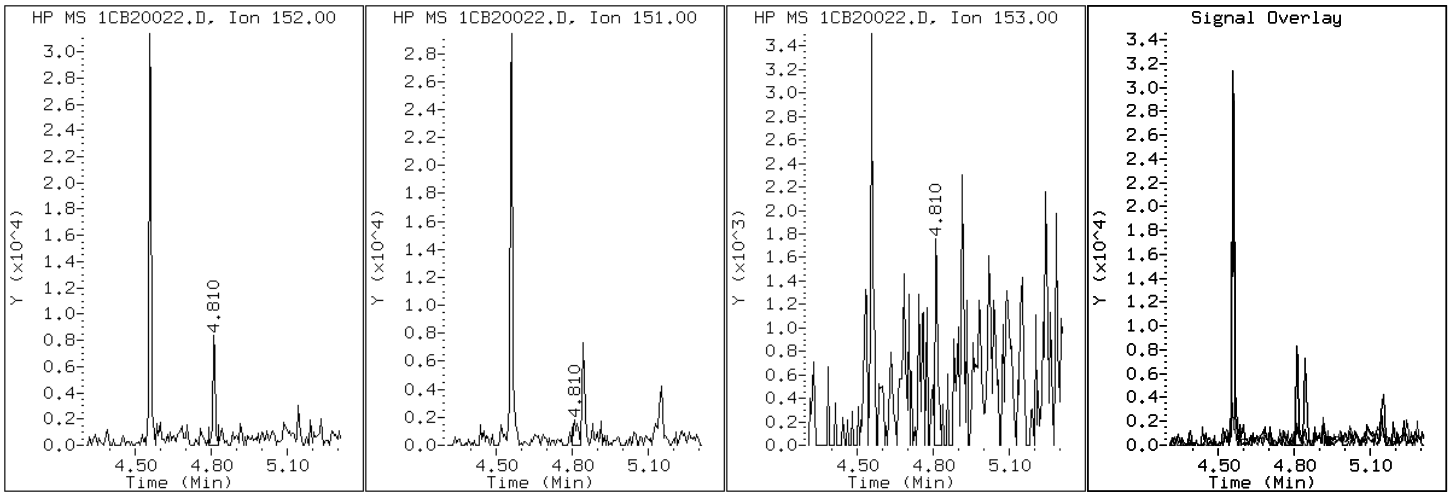
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a Operator: SCC

5 Acenaphthylene



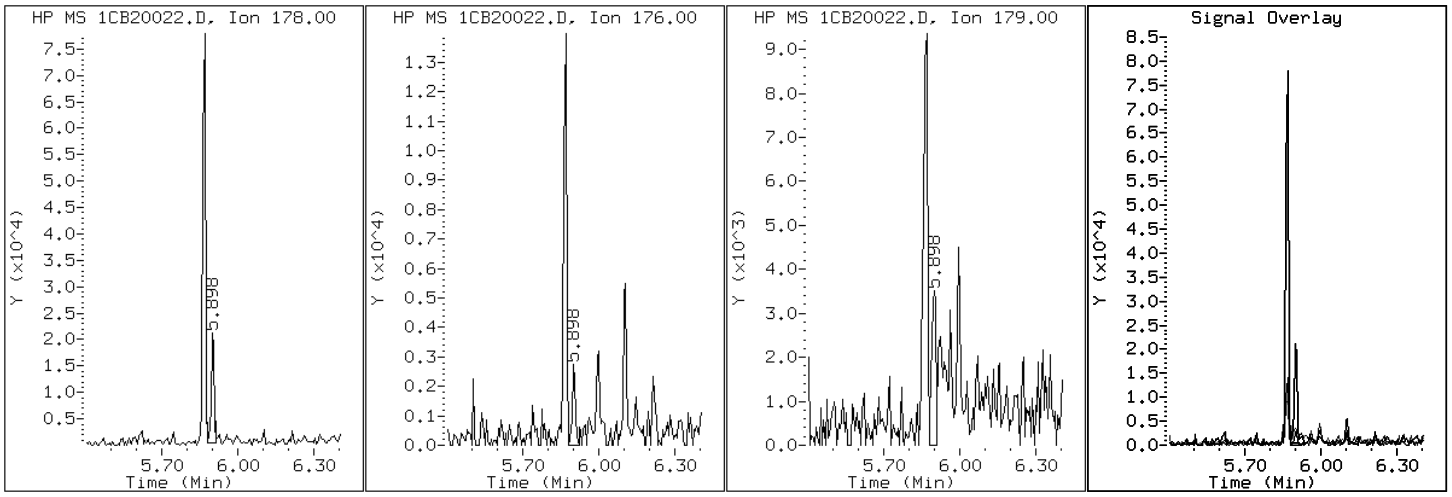
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a Operator: SCC

12 Anthracene



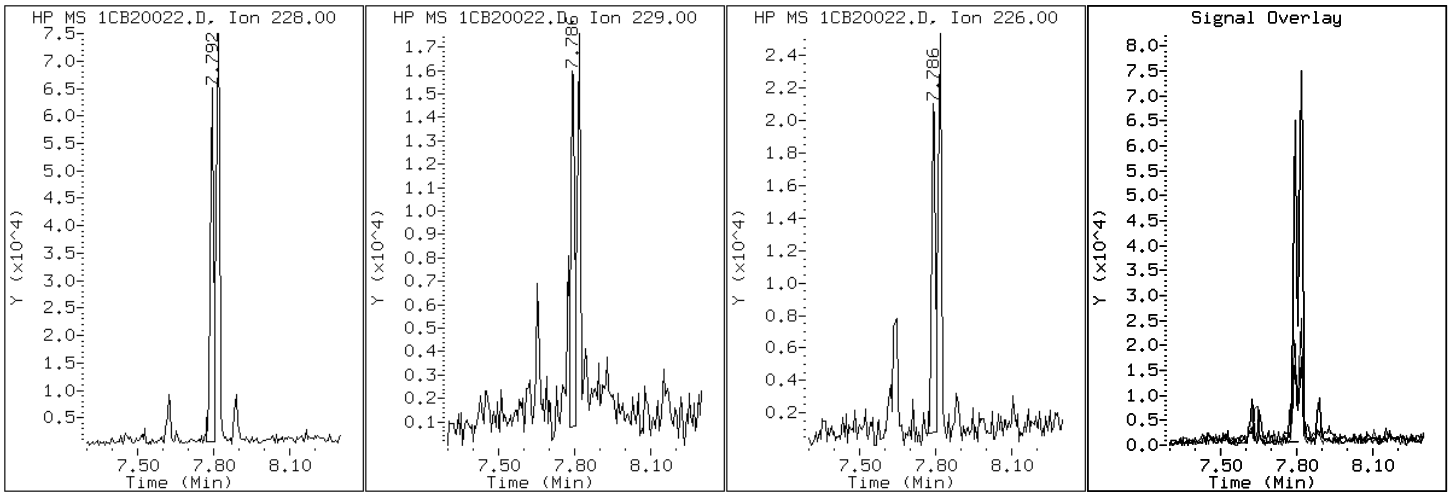
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a Operator: SCC

17 Benzo(a)anthracene



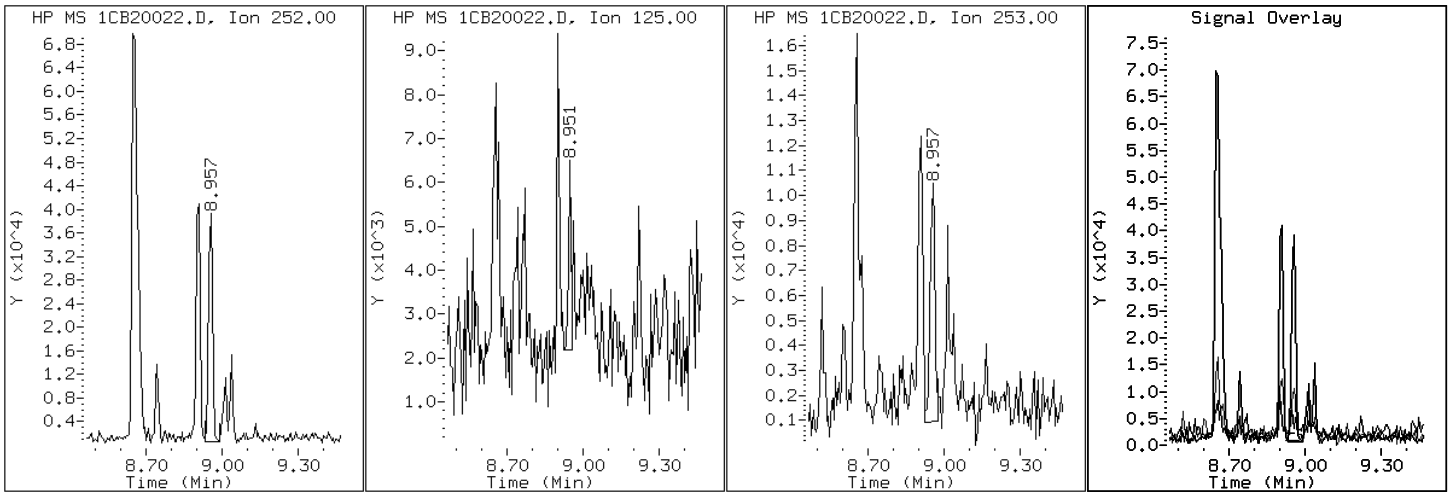
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a Operator: SCC

22 Benzo(a)pyrene



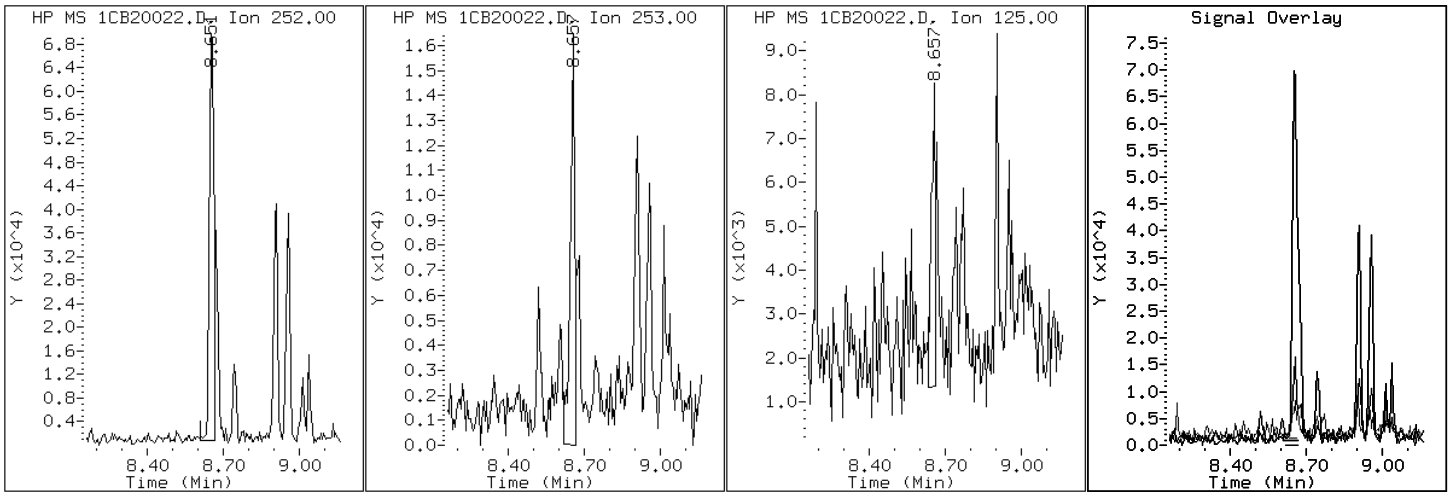
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

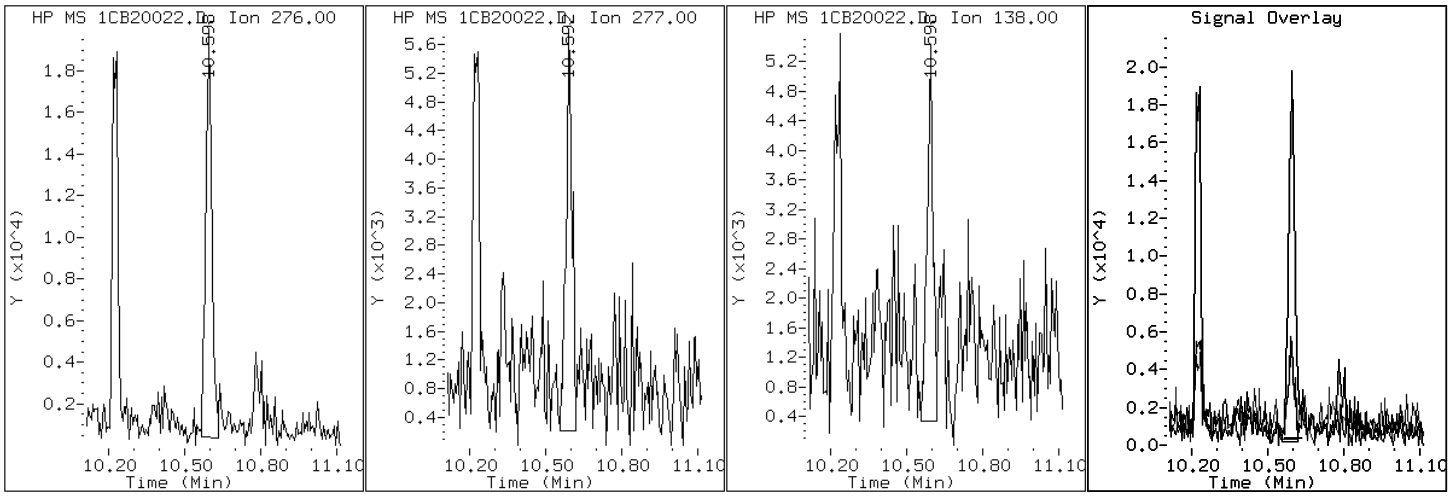
Client ID: CV0971H-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

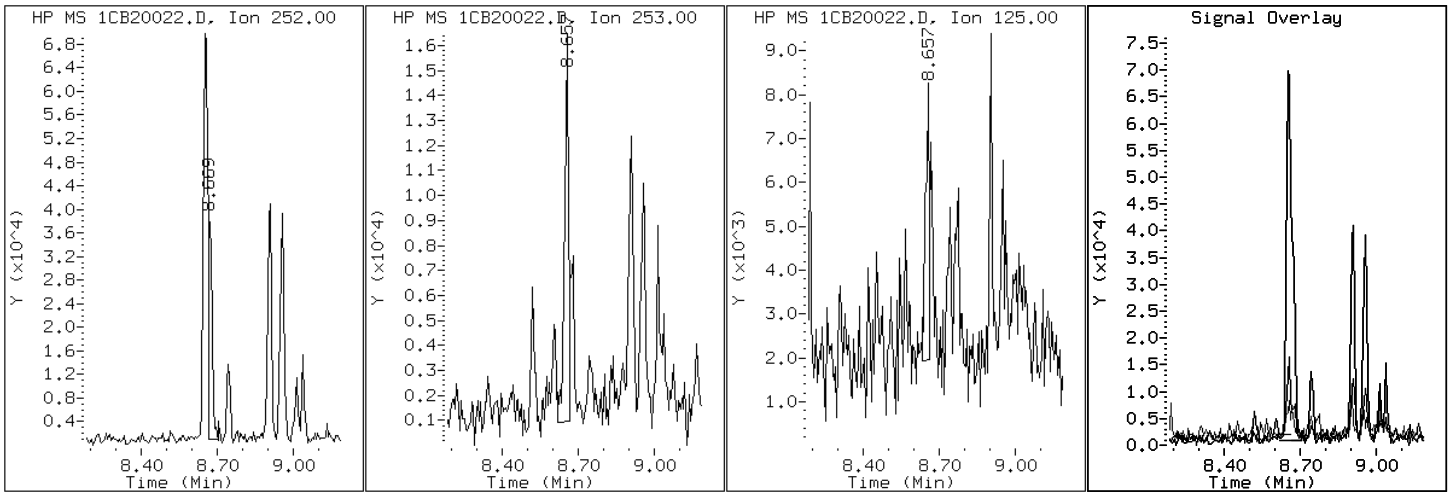
Client ID: CV0971H-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene



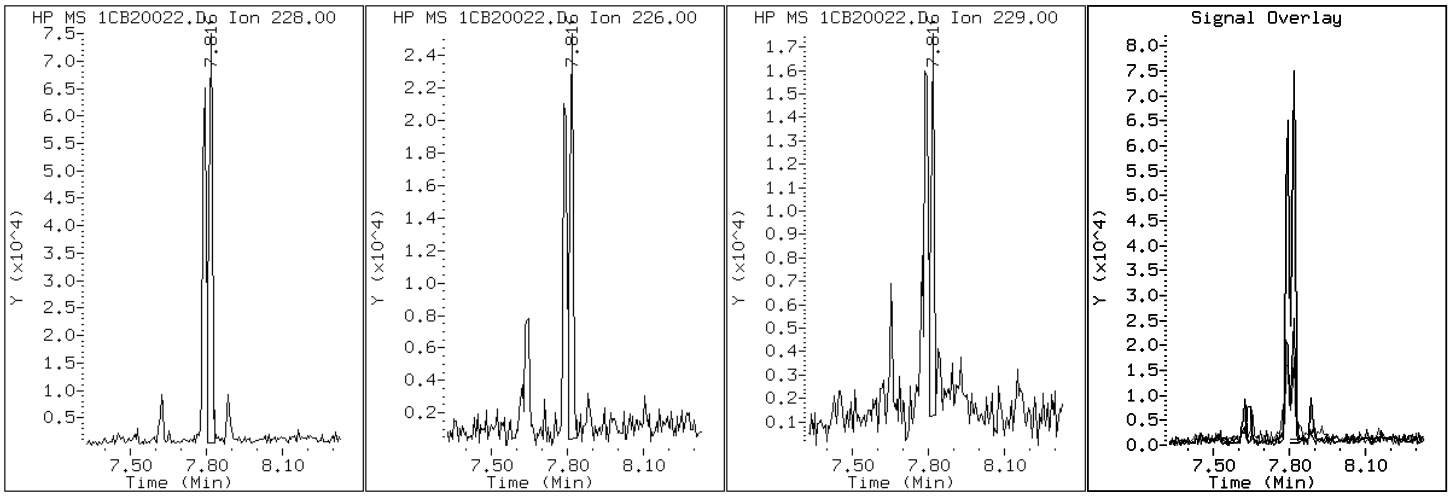
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS | Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a | Operator: SCC

19 Chrysene



Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

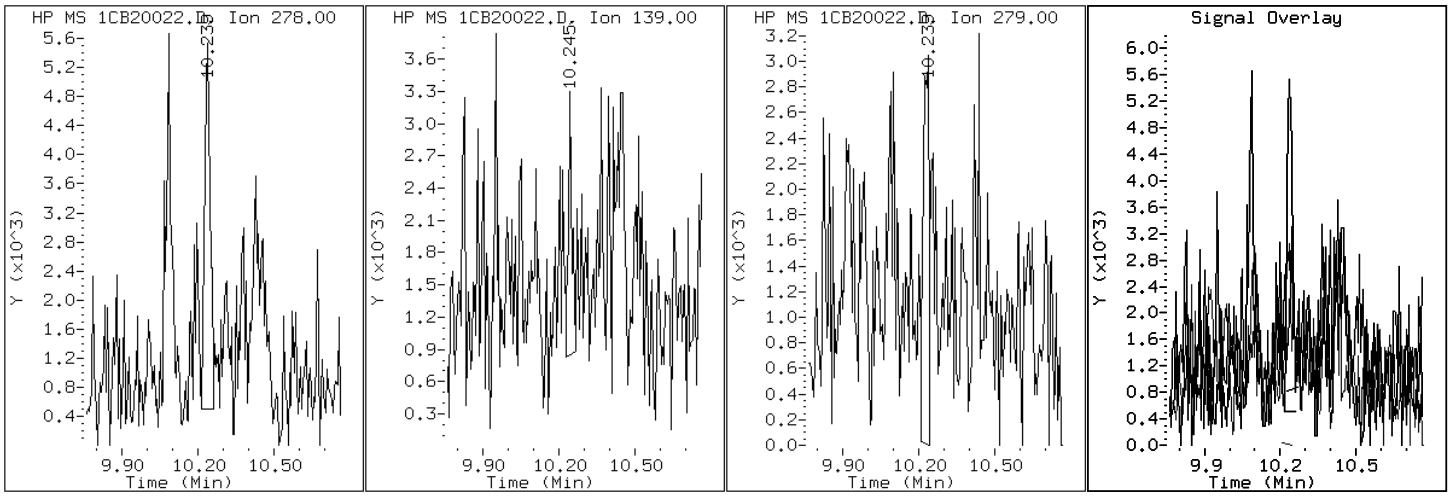
Client ID: CV0971H-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a

Operator: SCC

25 Dibenzo(a,h)anthracene



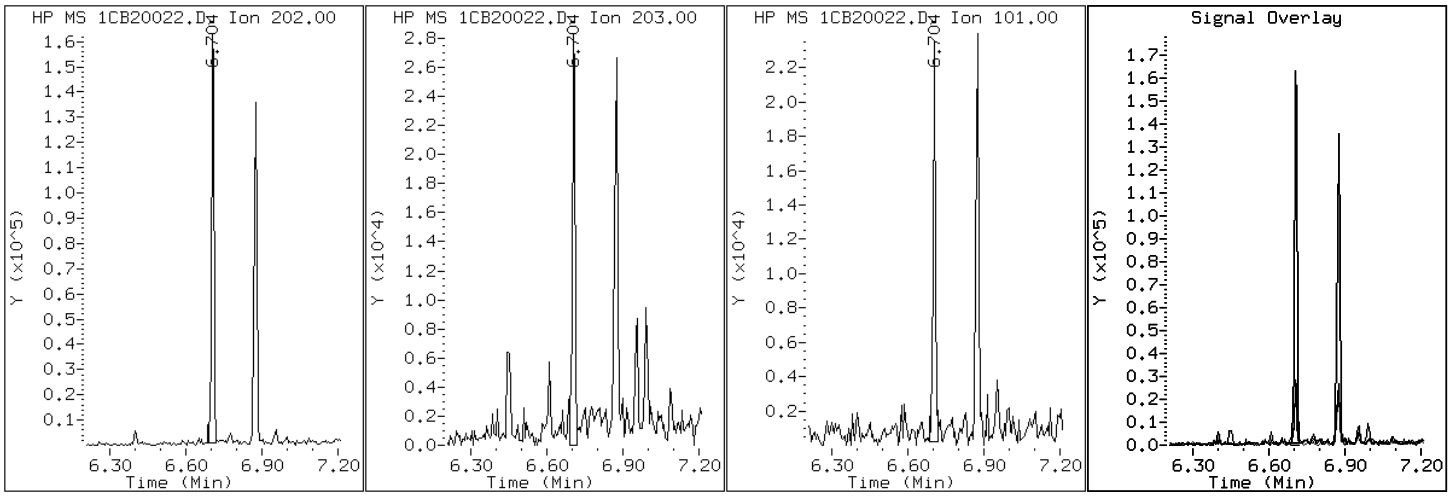
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a Operator: SCC

15 Fluoranthene



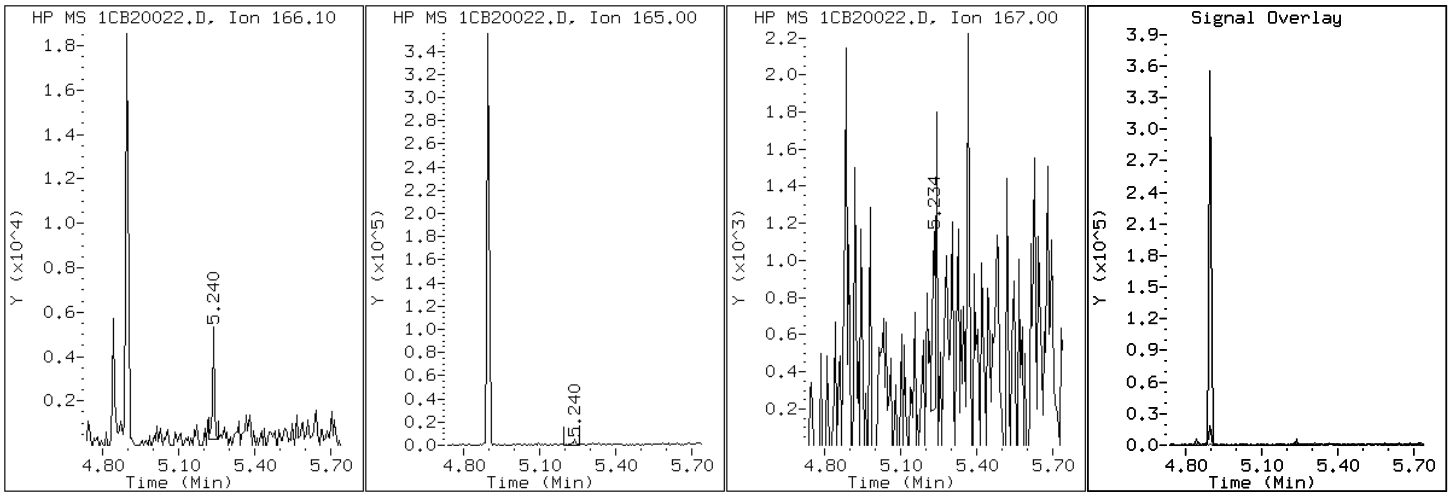
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a Operator: SCC

9 Fluorene



Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

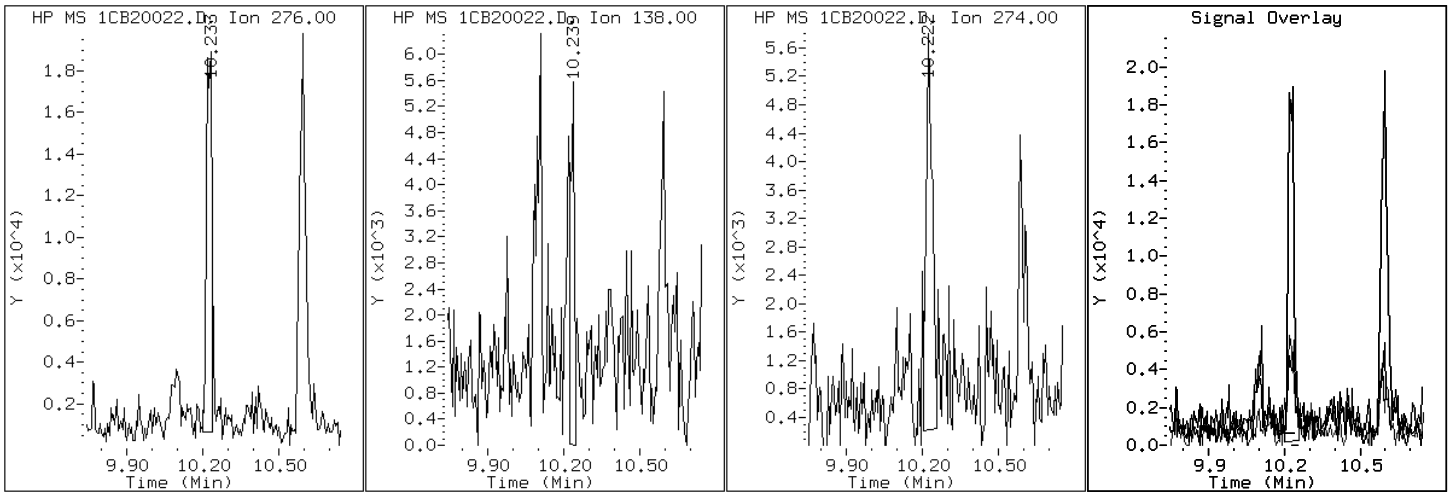
Client ID: CV0971H-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a

Operator: SCC

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



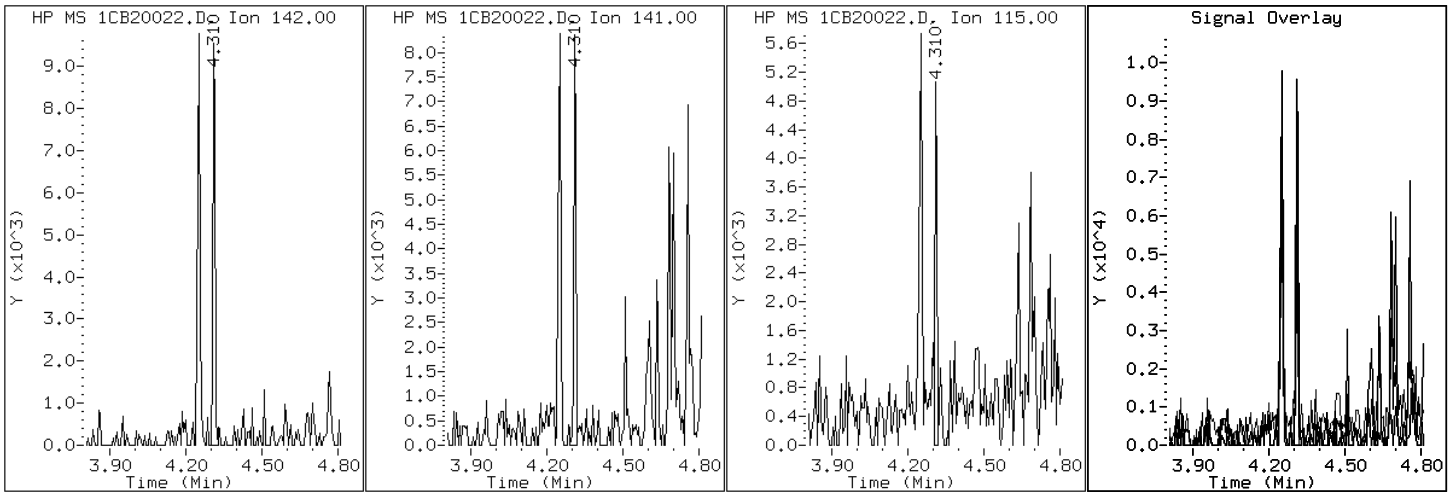
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a Operator: SCC

4 1-Methylnaphthalene



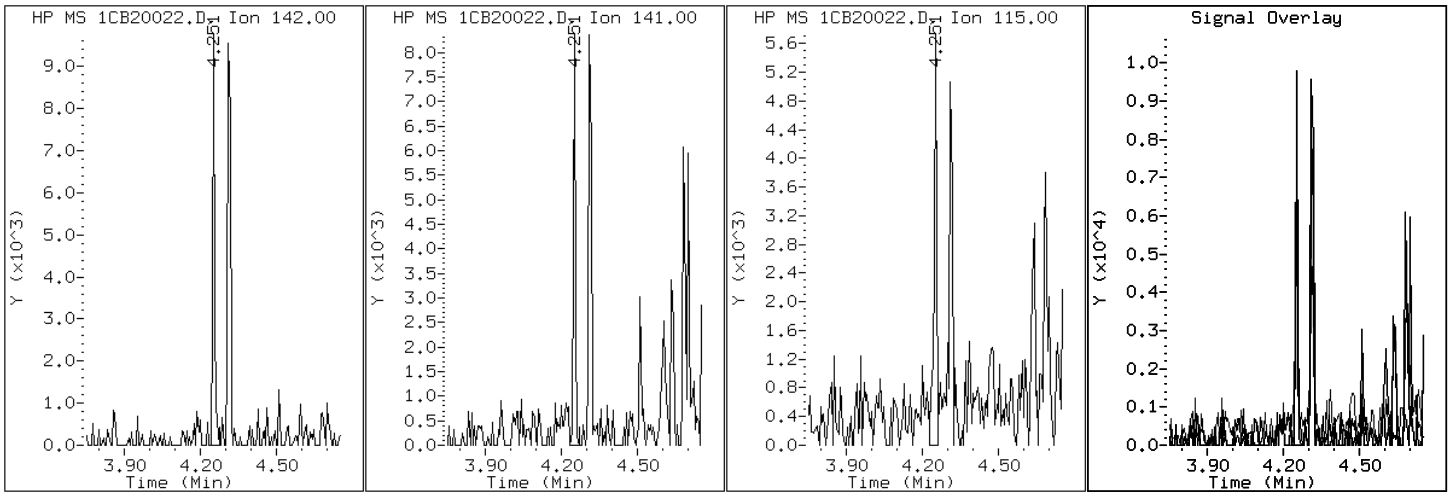
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a Operator: SCC

3 2-Methylnaphthalene



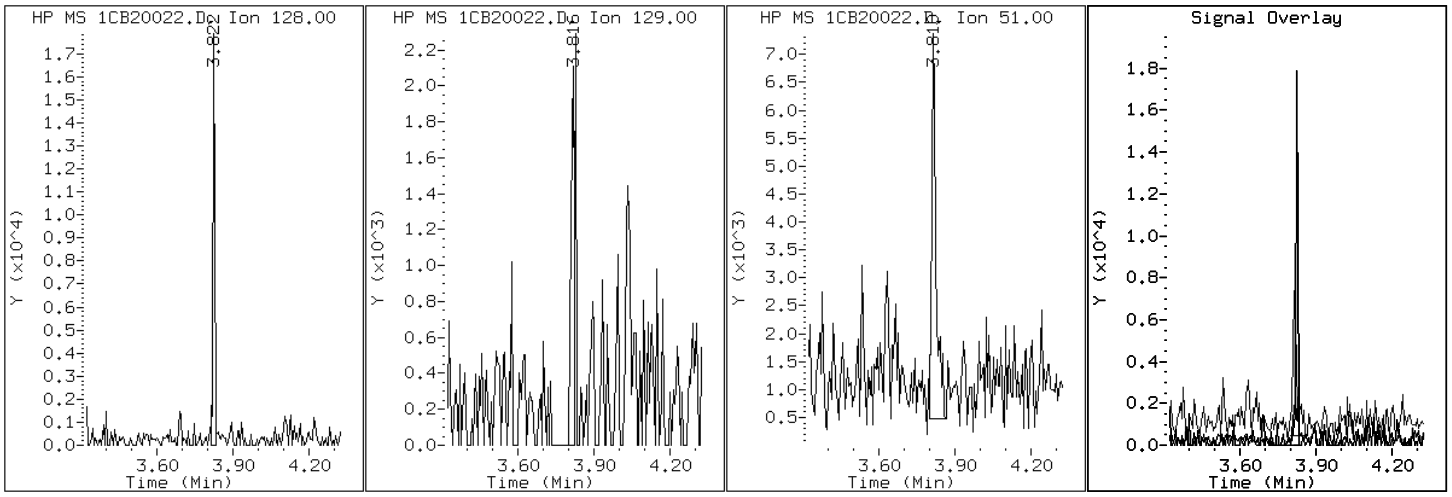
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a Operator: SCC

2 Naphthalene



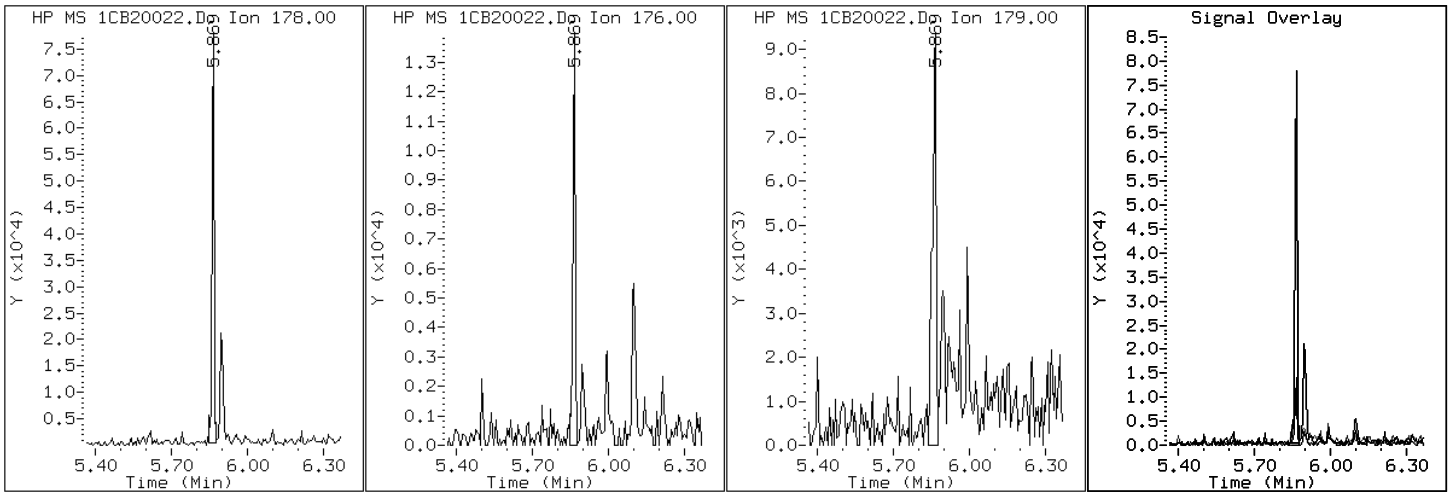
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a Operator: SCC

11 Phenanthrene



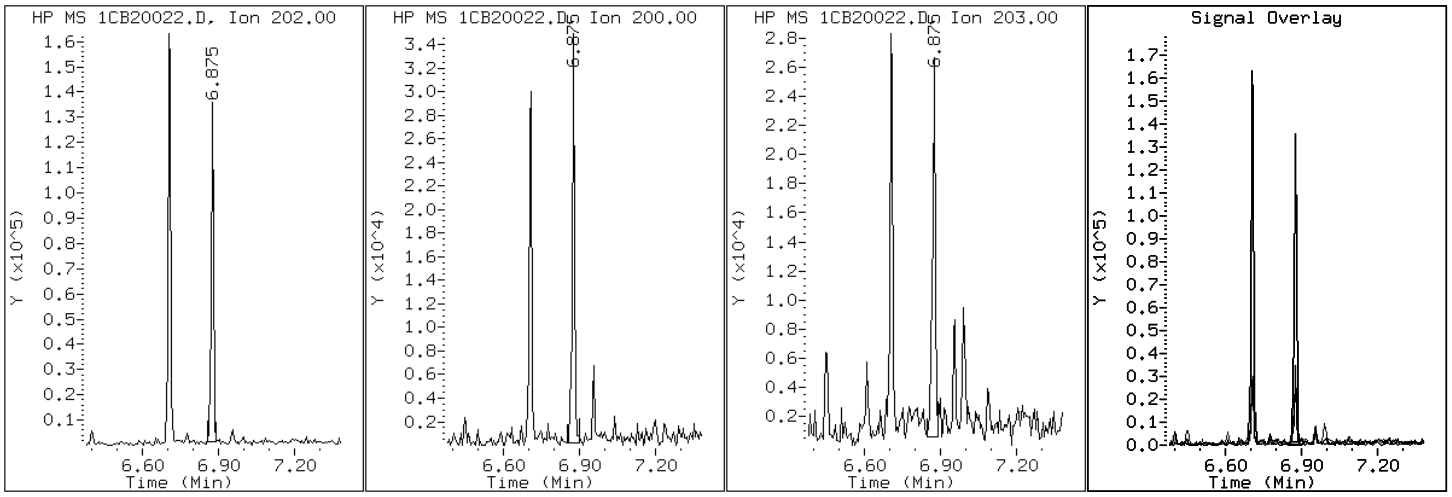
Data File: 1CB20022.D

Date: 20-FEB-2013 20:07

Client ID: CV0971H-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-9-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20022.D
Inj. Date and Time: 20-FEB-2013 20:07
Instrument ID: BSMC5973.i
Client ID: CV0971H-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

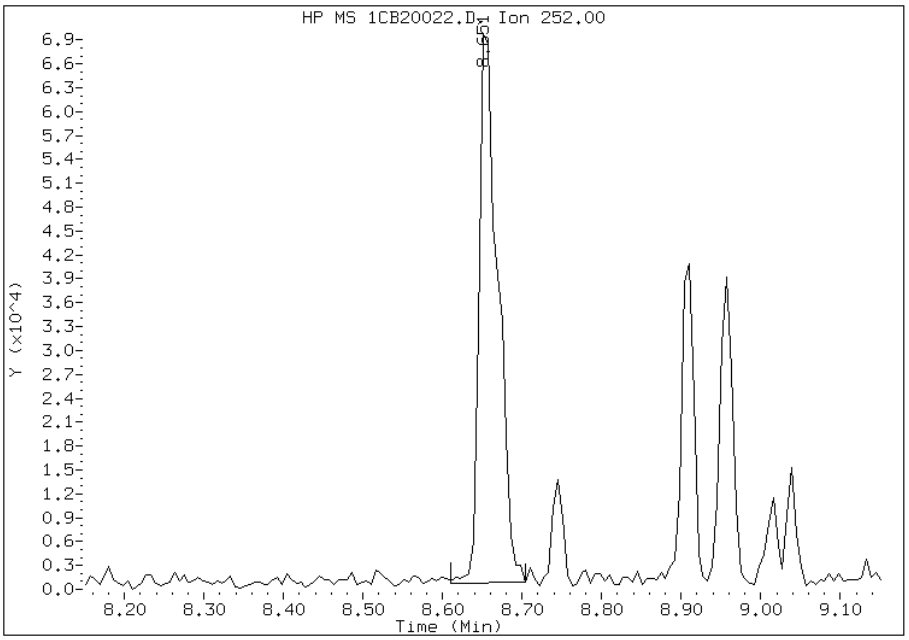
Processing Integration Results

RT: 8.65

Response: 113523

Amount: 2

Conc: 595



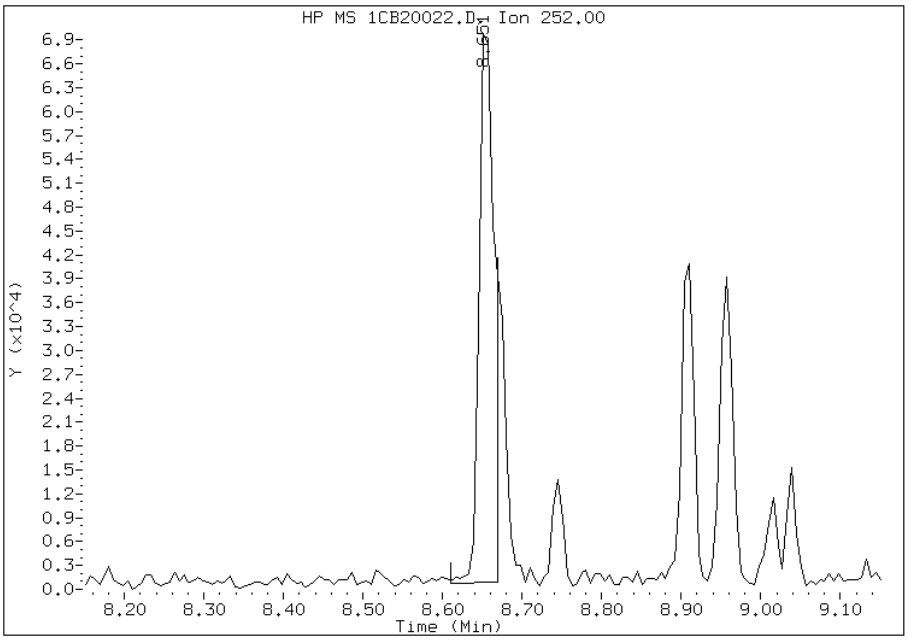
Manual Integration Results

RT: 8.65

Response: 91956

Amount: 1

Conc: 482



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20022.D
Inj. Date and Time: 20-FEB-2013 20:07
Instrument ID: BSMC5973.i
Client ID: CV0971H-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

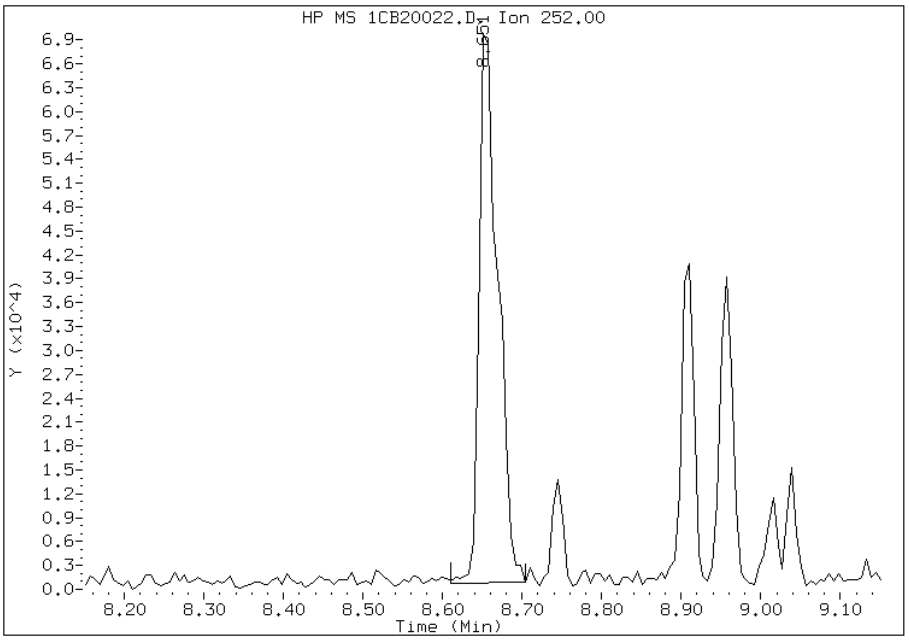
Processing Integration Results

RT: 8.65

Response: 113772

Amount: 1

Conc: 541



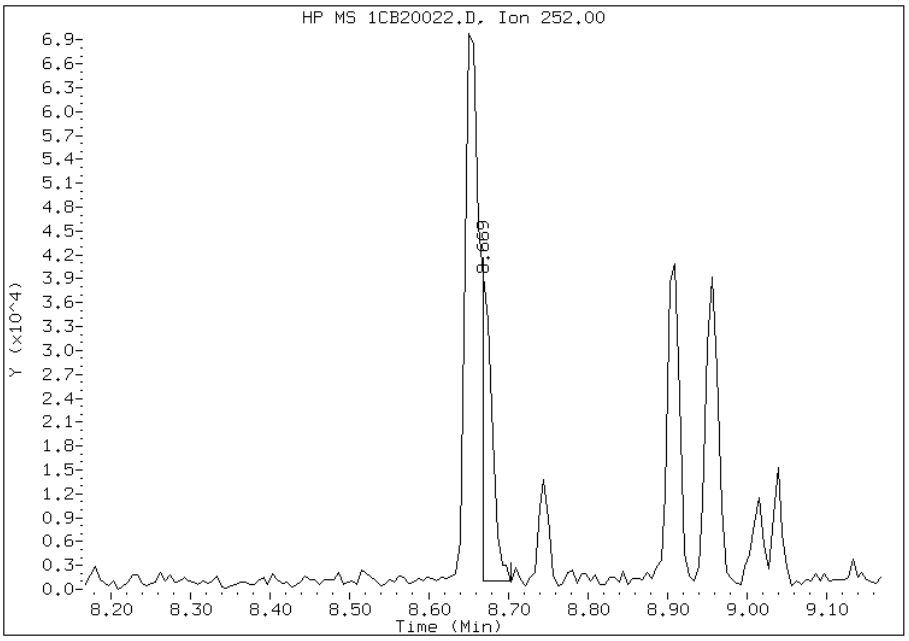
Manual Integration Results

RT: 8.67

Response: 34851

Amount: 0

Conc: 166



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20022.D
Inj. Date and Time: 20-FEB-2013 20:07
Instrument ID: BSMC5973.i
Client ID: CV0971H-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

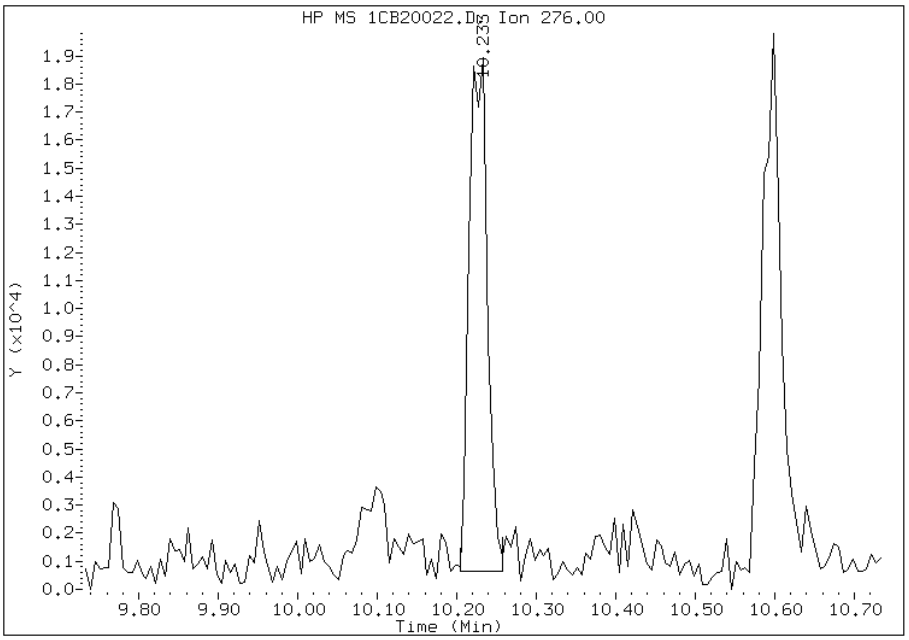
Processing Integration Results

RT: 10.23

Response: 28805

Amount: 0

Conc: 165



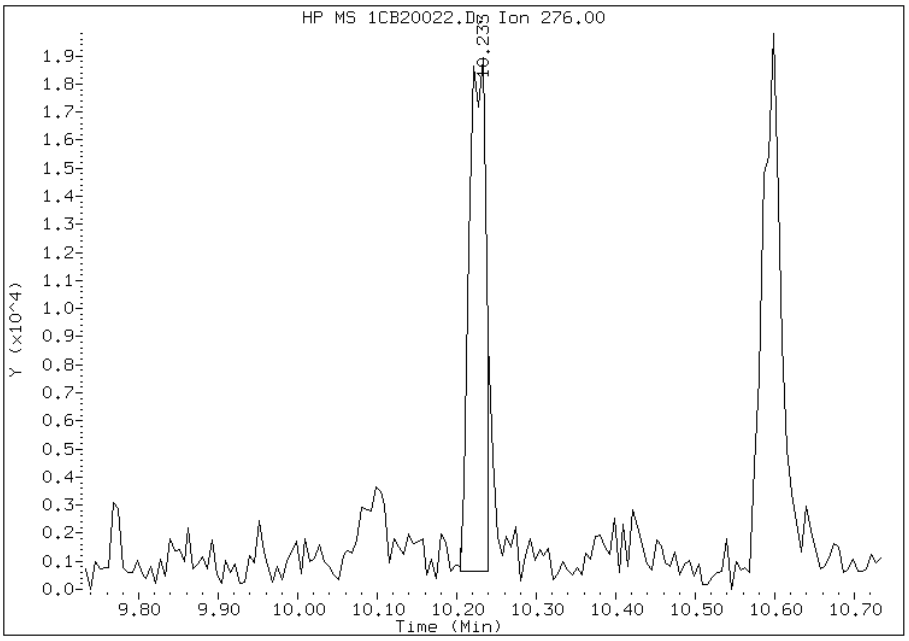
Manual Integration Results

RT: 10.23

Response: 26770

Amount: 0

Conc: 153



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971I-CS | Lab Sample ID: 680-87447-10

Matrix: Solid | Lab File ID: 1CB20023.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 09:25

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.32(g) | Date Analyzed: 02/20/2013 20:25

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

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

% Moisture: 44.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	180	U	180	36
208-96-8	Acenaphthylene	9.1	J	71	8.9
120-12-7	Anthracene	10	J	15	7.5
56-55-3	Benzo[a]anthracene	68		14	6.9
50-32-8	Benzo[a]pyrene	59		18	9.2
205-99-2	Benzo[b]fluoranthene	97		22	11
191-24-2	Benzo[g,h,i]perylene	46		36	7.8
207-08-9	Benzo[k]fluoranthene	31		14	6.4
218-01-9	Chrysene	56		16	8.0
53-70-3	Dibenz(a,h)anthracene	21	J	36	7.3
206-44-0	Fluoranthene	99		36	7.1
86-73-7	Fluorene	36	U	36	7.3
193-39-5	Indeno[1,2,3-cd]pyrene	41		36	13
90-12-0	1-Methylnaphthalene	17	J	71	7.8
91-57-6	2-Methylnaphthalene	25	J	71	13
91-20-3	Naphthalene	27	J	71	7.8
85-01-8	Phenanthrene	55		14	6.9
129-00-0	Pyrene	94		36	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20023.D
Lab Smp Id: 680-87447-A-10-A Client Smp ID: CV0971I-CS
Inj Date : 20-FEB-2013 20:25
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-10-a
Misc Info : 680-87447-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	44.944	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2309216	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1801947	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3326519	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	313129	6.42433	761.6634
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3466983	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3139981	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	13896	0.22709	26.9237(Q)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	8519	0.21411	25.3846
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	5333	0.14737	17.4726
5 Acenaphthylene	152	4.810	4.810	(0.982)	5516	0.07694	9.1223
11 Phenanthrene	178	5.868	5.869	(1.003)	45684	0.46009	54.5474
12 Anthracene	178	5.898	5.904	(1.008)	7631	0.08530	10.1130
13 Carbazole	167	6.004	6.010	(1.026)	7634	0.09824	11.6472
15 Fluoranthene	202	6.704	6.710	(1.146)	81363	0.83858	99.4217

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.874	6.880	(0.882)	72955	0.79042	93.7110
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	54991	0.57518	68.1926
19 Chrysene	228	7.815	7.827	(1.002)	46743	0.47331	56.1157
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	63140	0.82019	97.2411(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	22505	0.26536	31.4610(QMH)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	36661	0.50047	59.3356
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	24043	0.34173	40.5146(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	11987	0.18067	21.4197(M)
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	27919	0.39064	46.3142

QC Flag Legend

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

Data File: 1CB20023.D

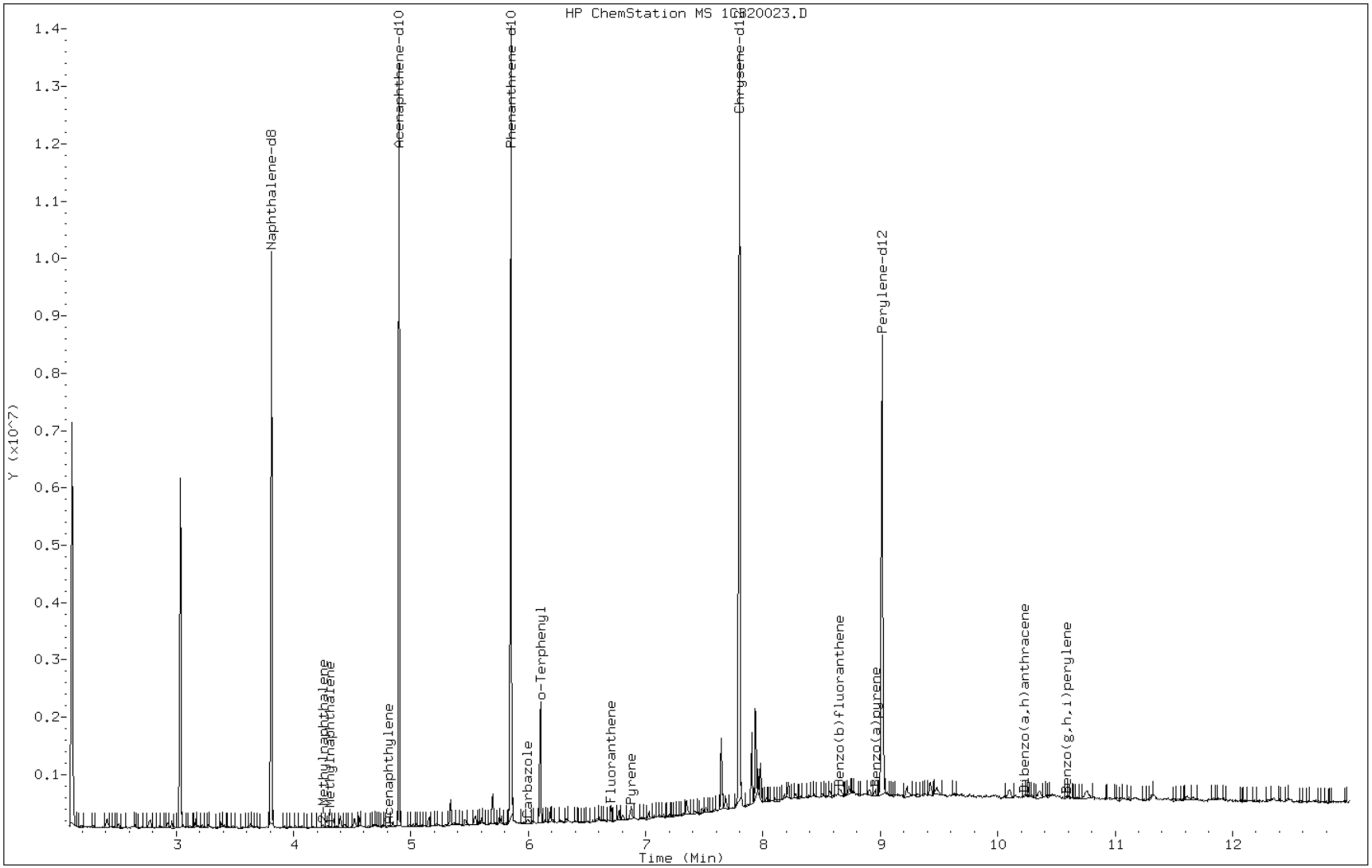
Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a

Operator: SCC



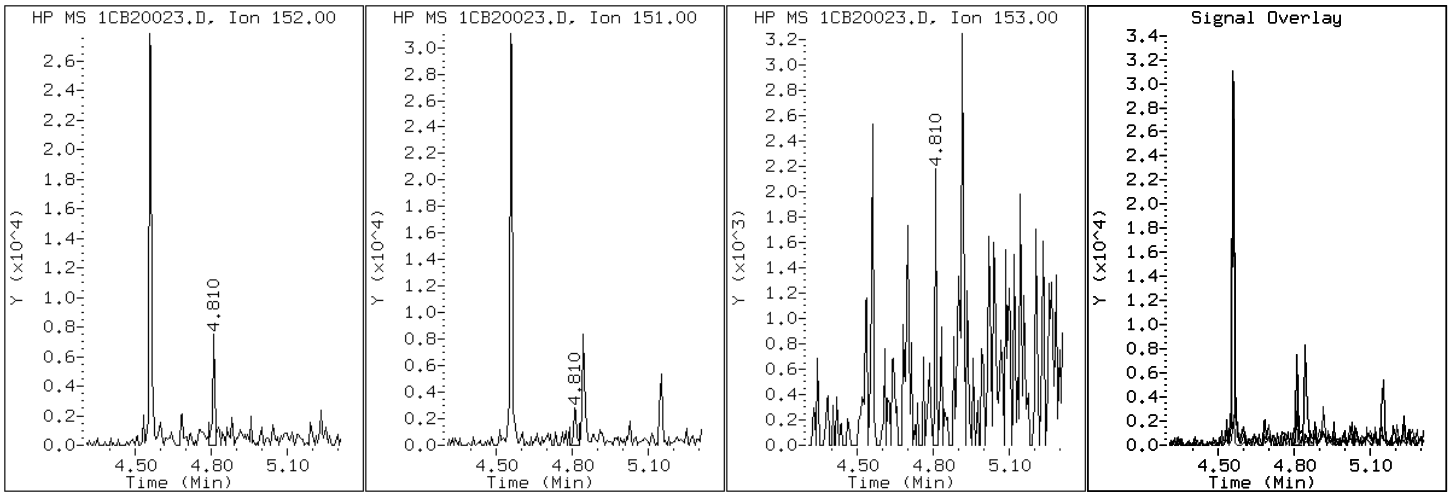
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

5 Acenaphthylene



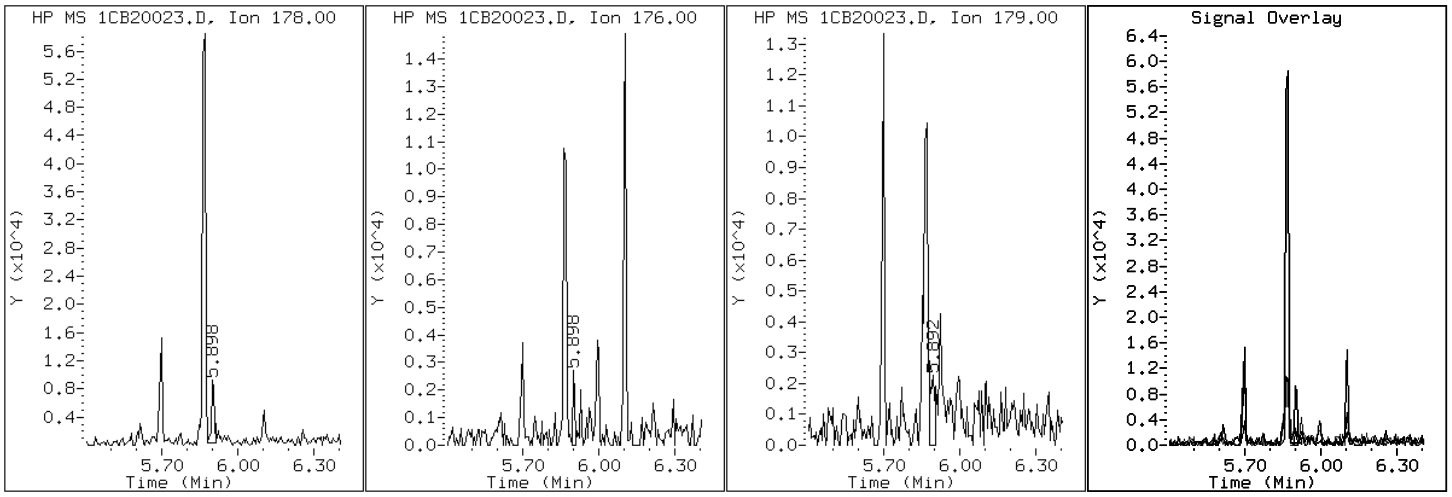
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

12 Anthracene



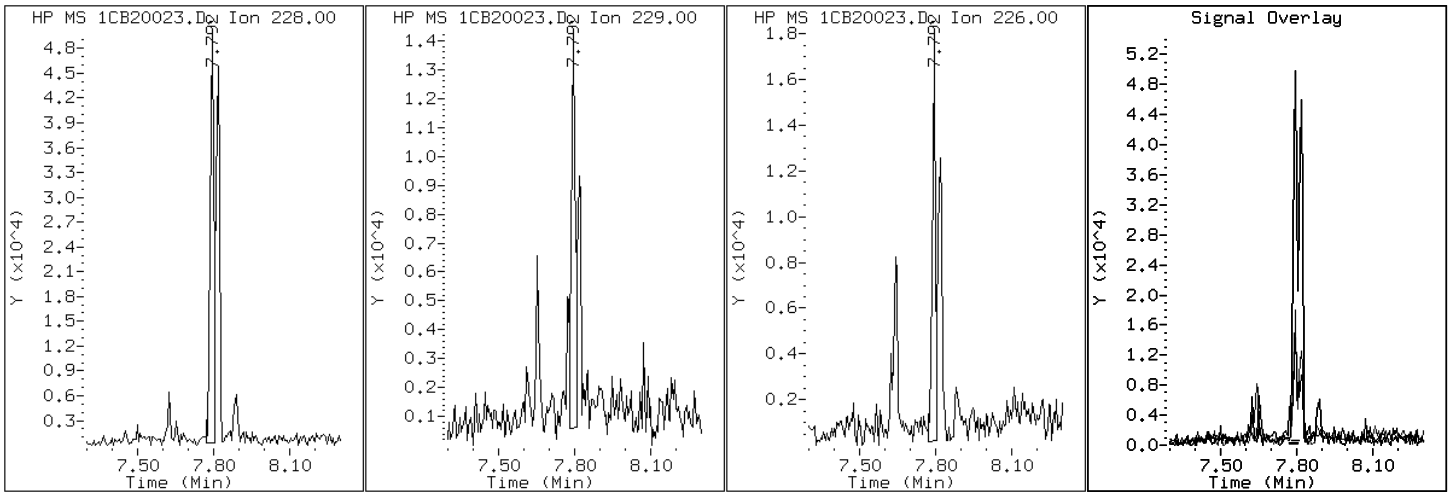
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

17 Benzo(a)anthracene



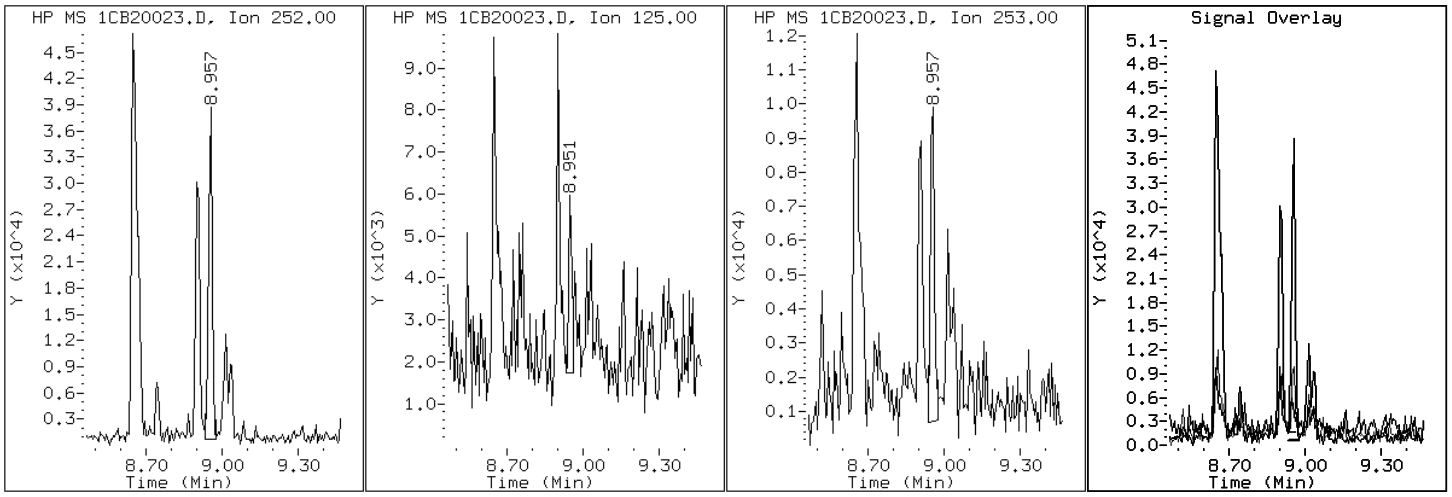
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

22 Benzo(a)pyrene



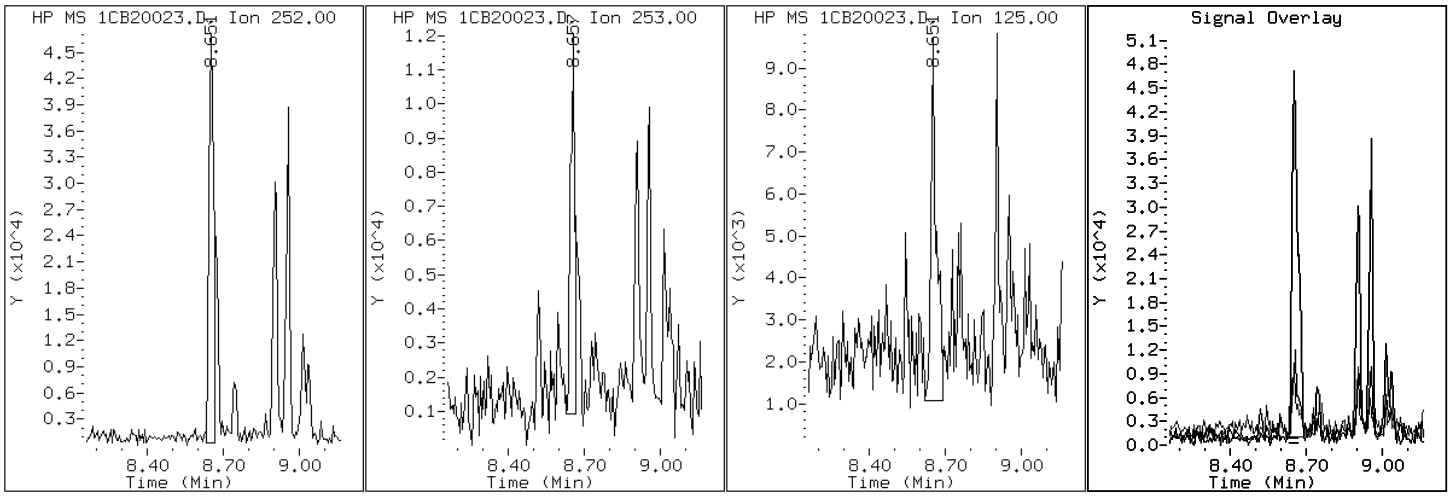
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

20 Benzo(b)fluoranthene



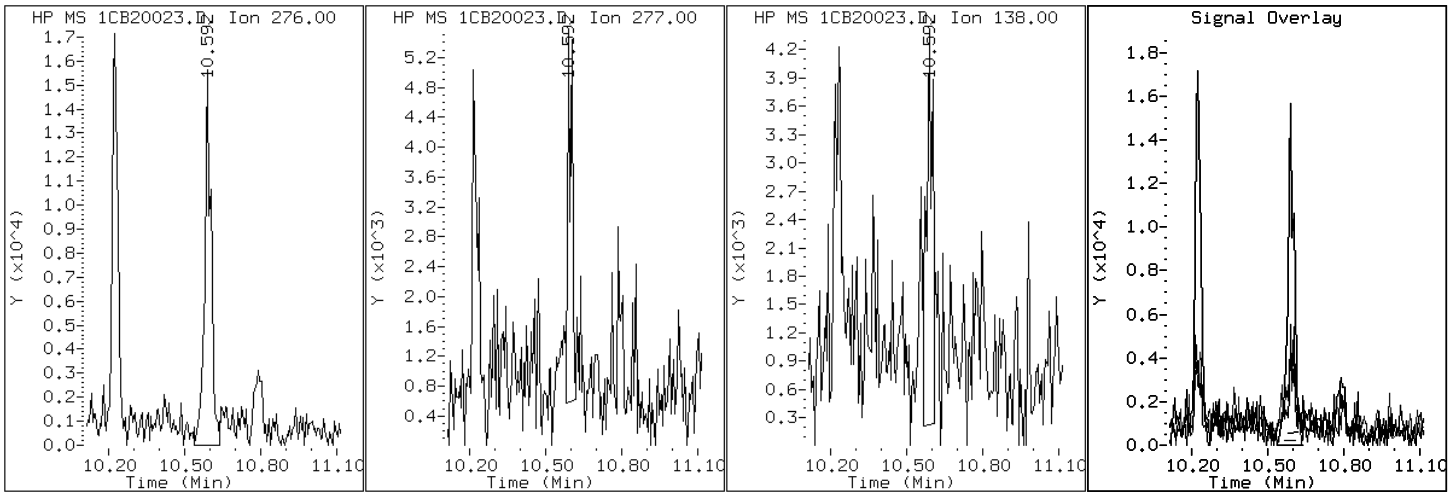
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

26 Benzo(g,h,i)perylene



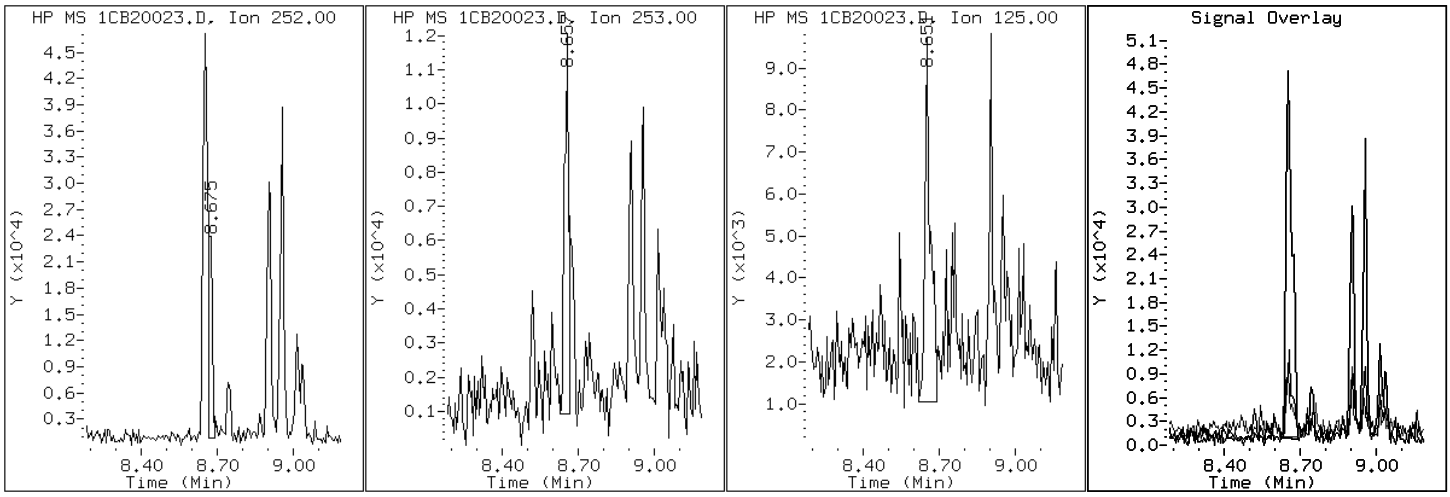
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

21 Benzo(k)fluoranthene



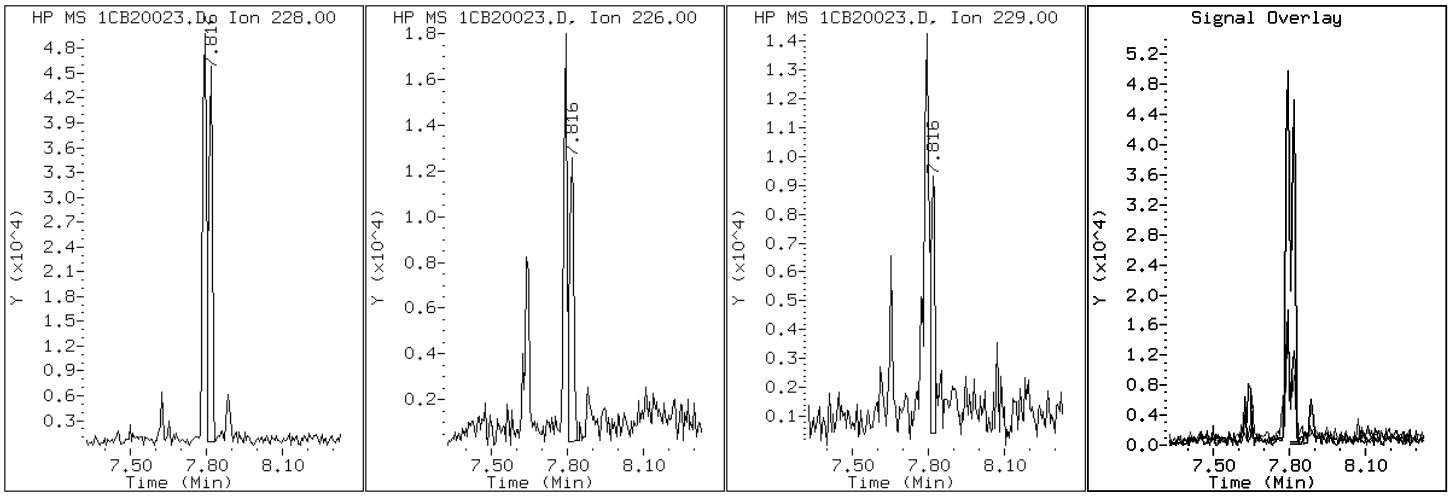
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

19 Chrysene



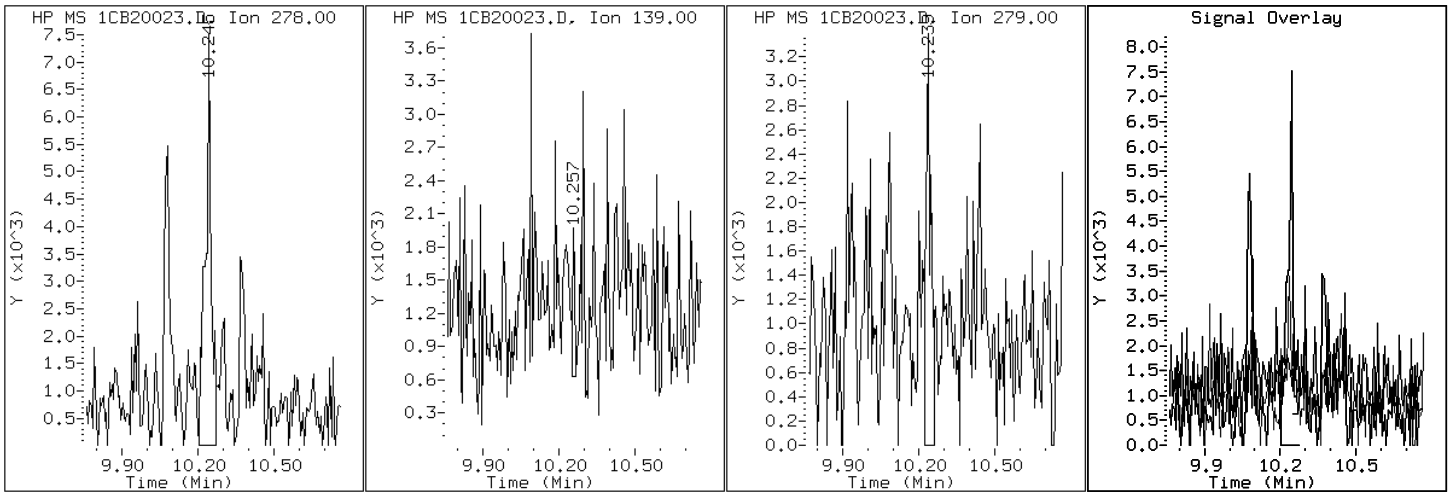
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

25 Dibenzo(a,h)anthracene



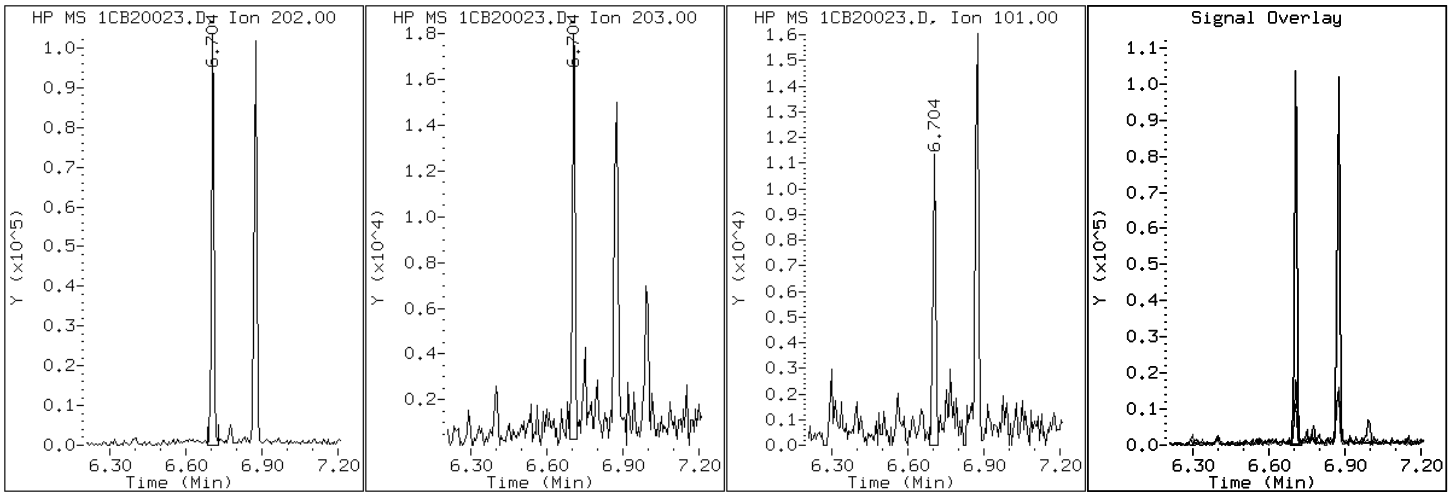
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

15 Fluoranthene



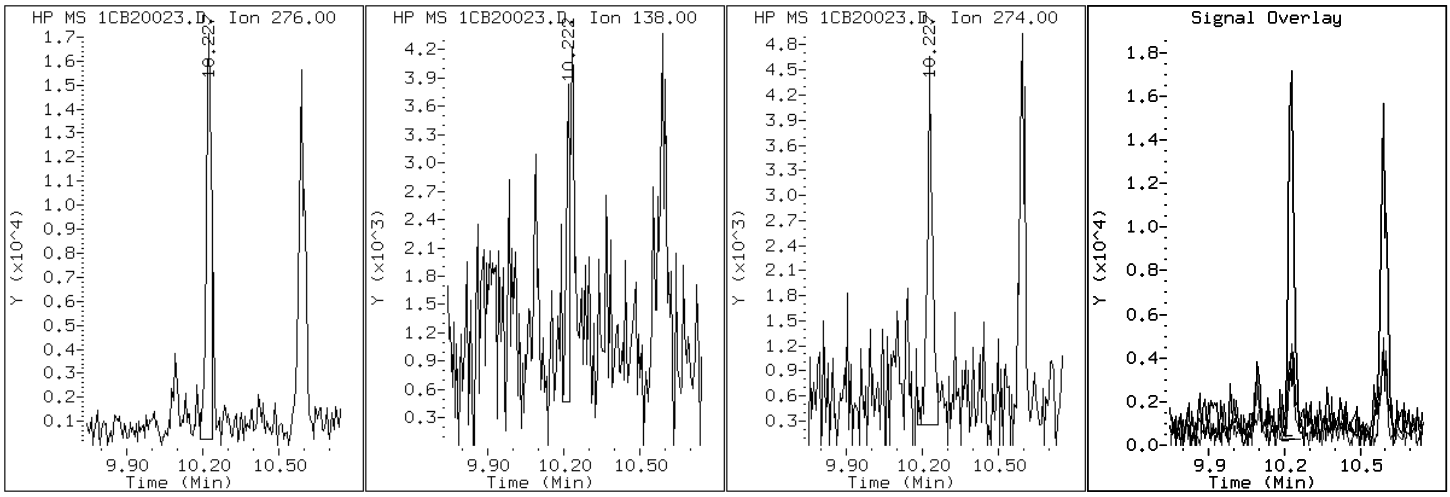
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

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



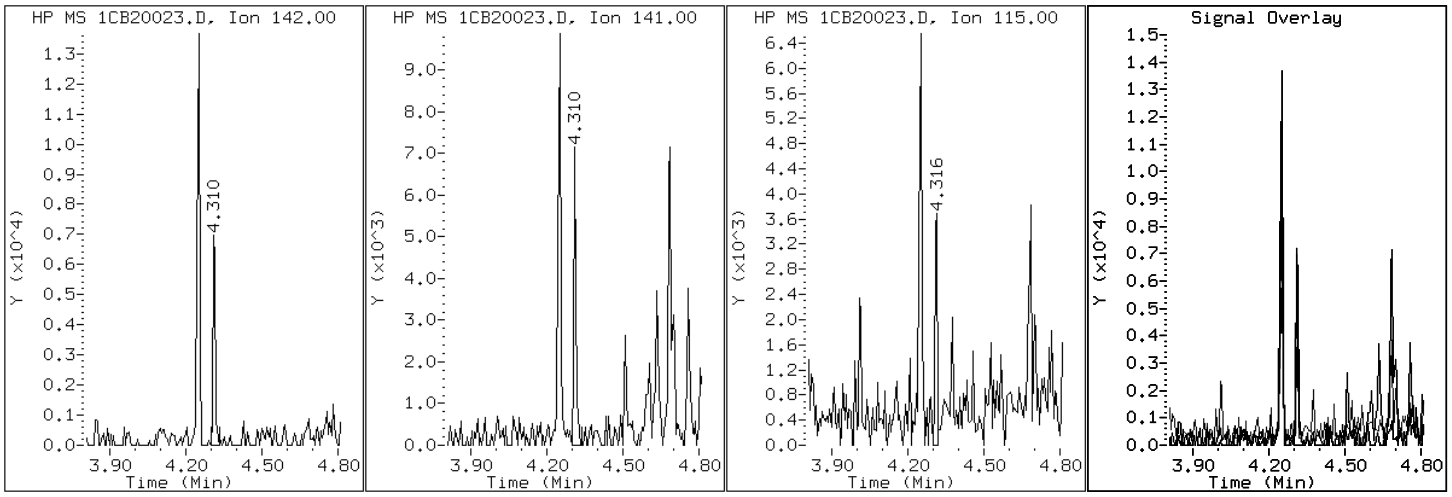
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

4 1-Methylnaphthalene



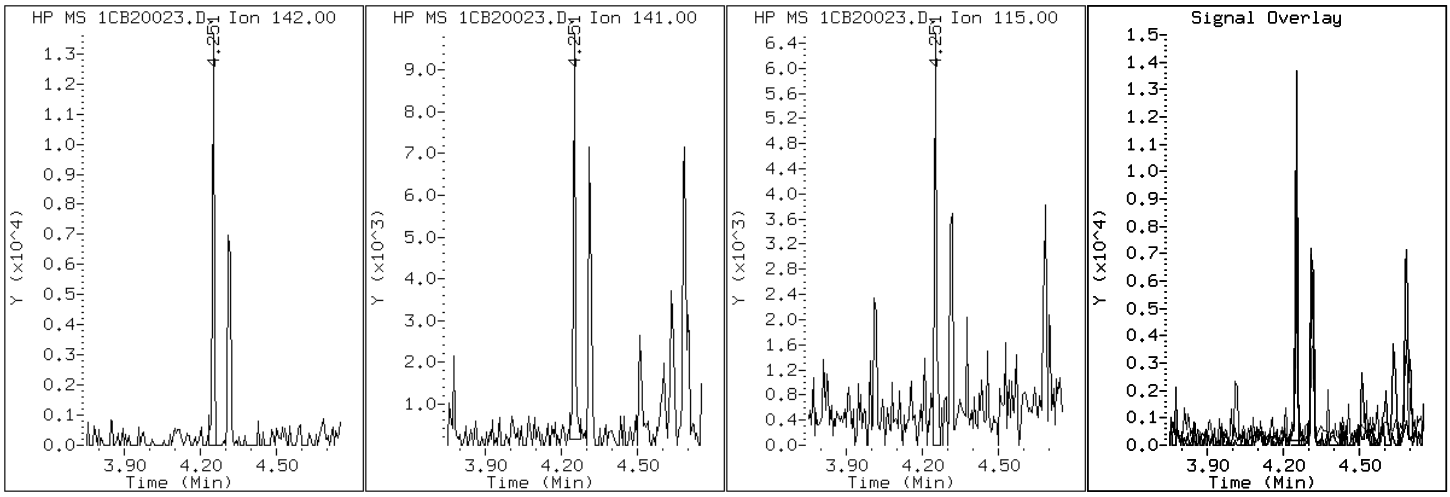
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

3 2-Methylnaphthalene



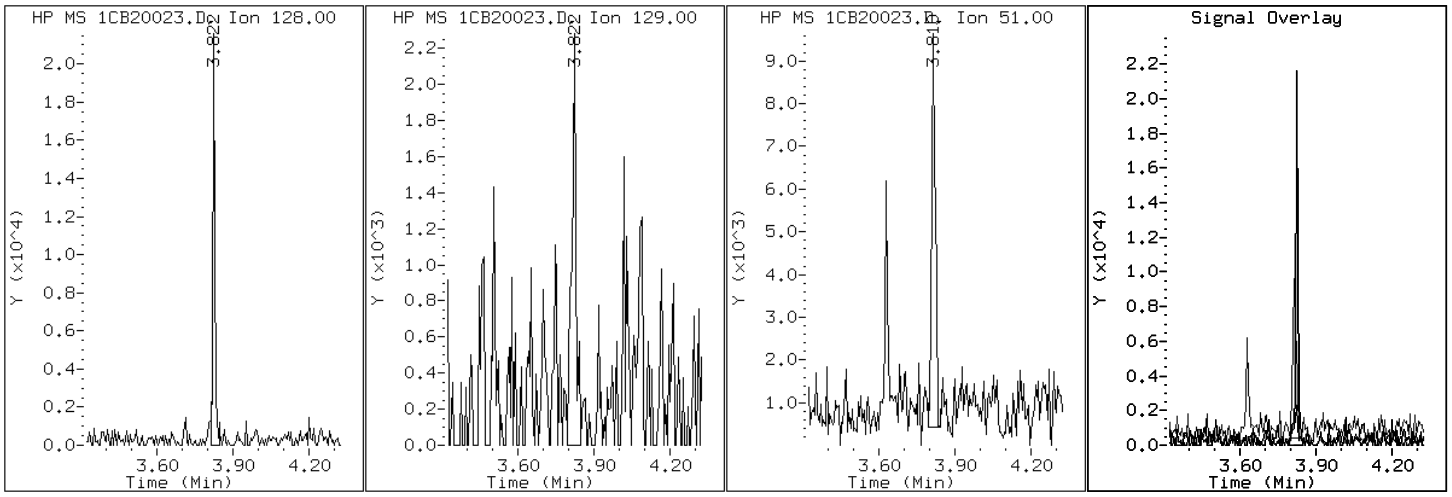
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

2 Naphthalene



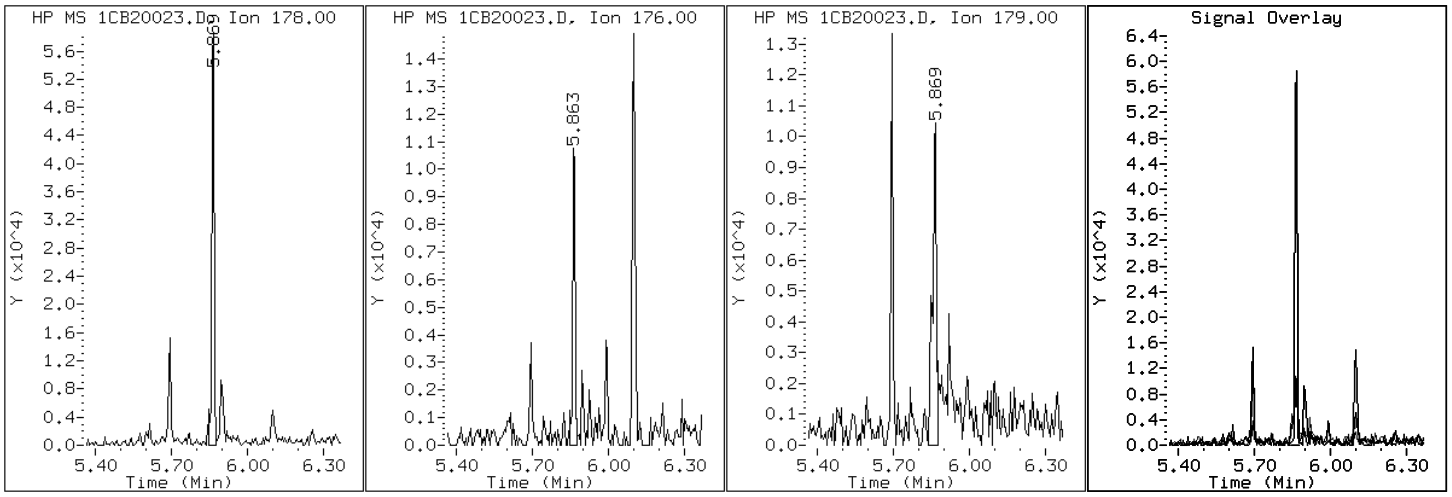
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

11 Phenanthrene



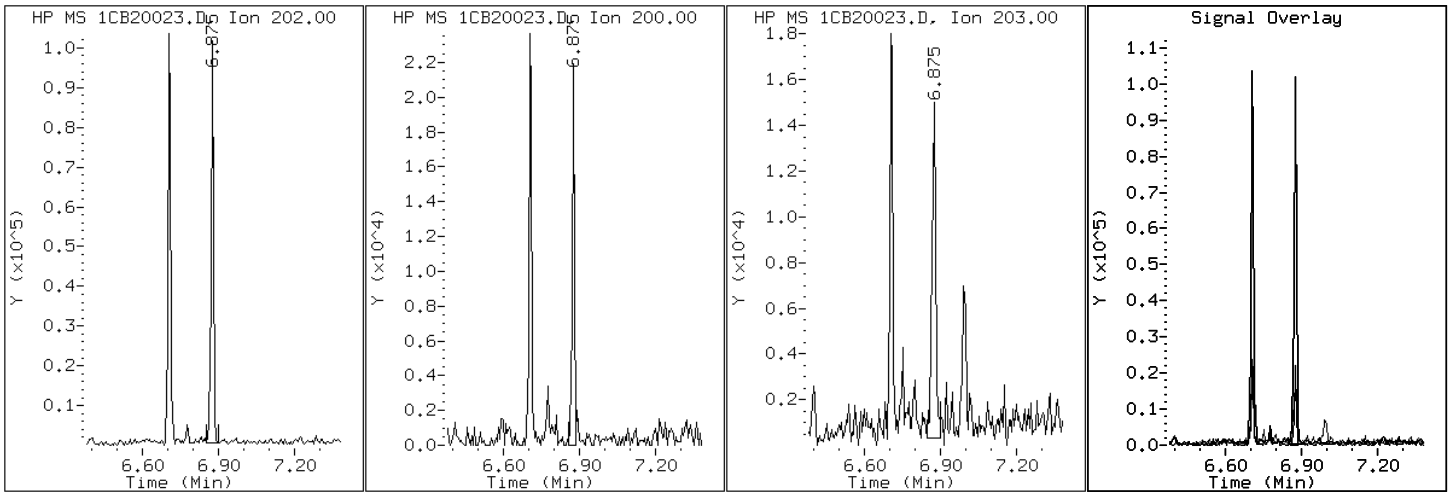
Data File: 1CB20023.D

Date: 20-FEB-2013 20:25

Client ID: CV0971I-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-10-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20023.D
Inj. Date and Time: 20-FEB-2013 20:25
Instrument ID: BSMC5973.i
Client ID: CV0971I-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

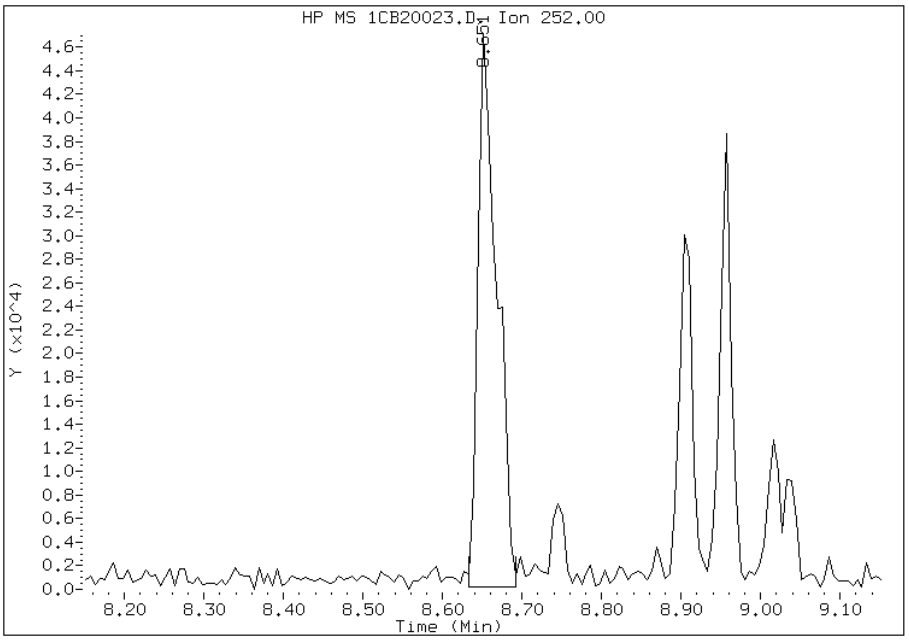
Processing Integration Results

RT: 8.65

Response: 78253

Amount: 1

Conc: 121



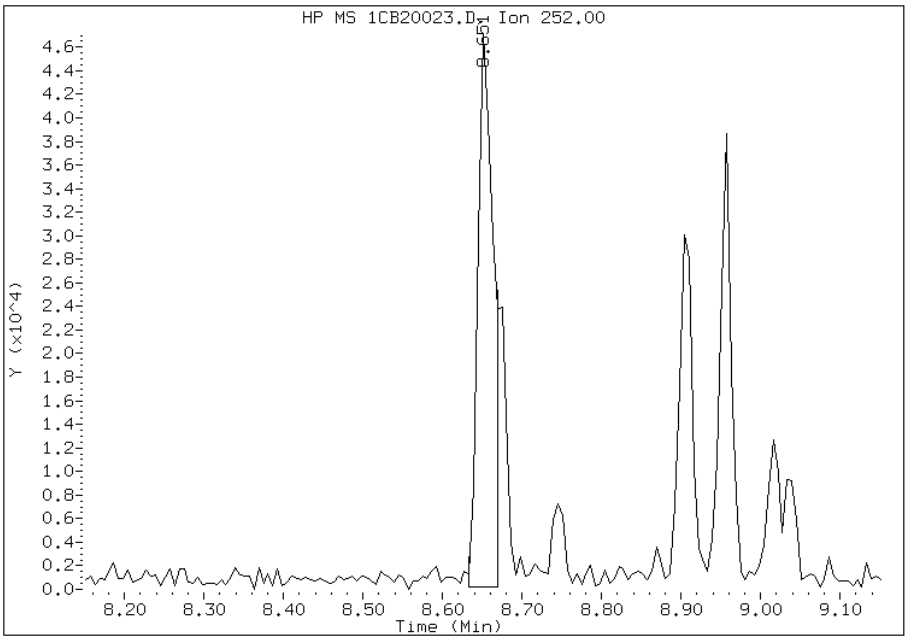
Manual Integration Results

RT: 8.65

Response: 63140

Amount: 1

Conc: 97



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:41
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20023.D
Inj. Date and Time: 20-FEB-2013 20:25
Instrument ID: BSMC5973.i
Client ID: CV0971I-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

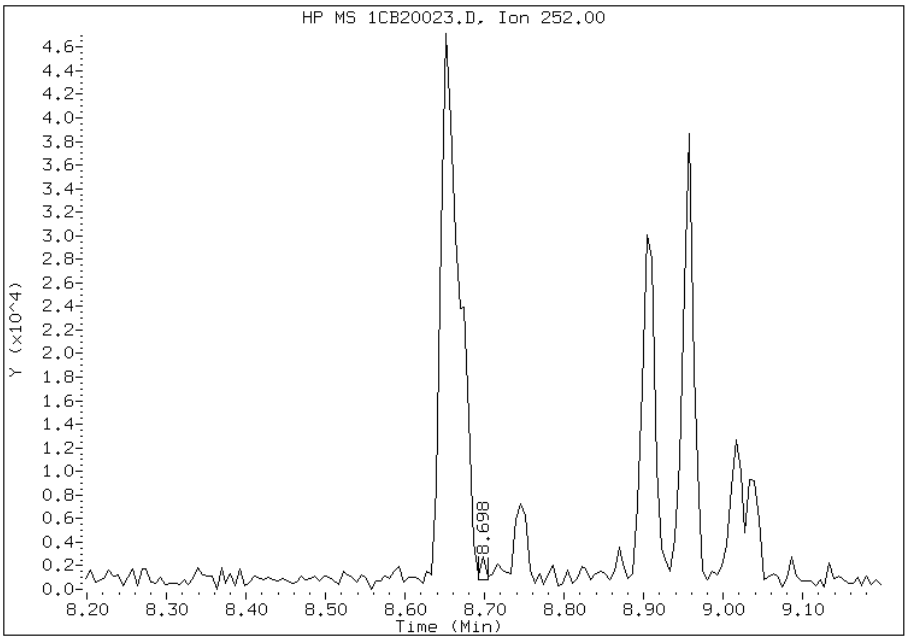
Processing Integration Results

RT: 8.70

Response: 928

Amount: 0

Conc: 1



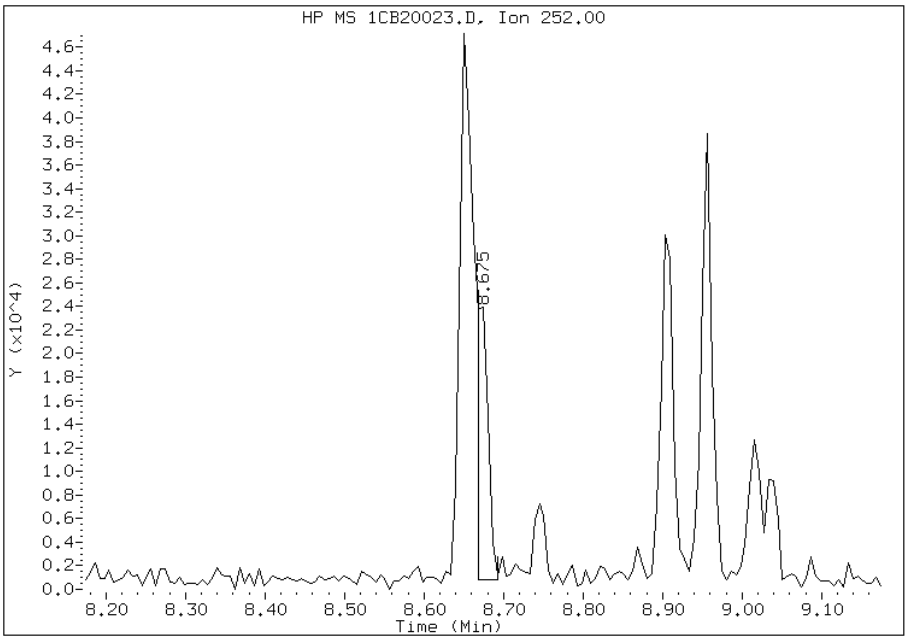
Manual Integration Results

RT: 8.67

Response: 22505

Amount: 0

Conc: 31



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20023.D
Inj. Date and Time: 20-FEB-2013 20:25
Instrument ID: BSMC5973.i
Client ID: CV0971I-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/21/2013

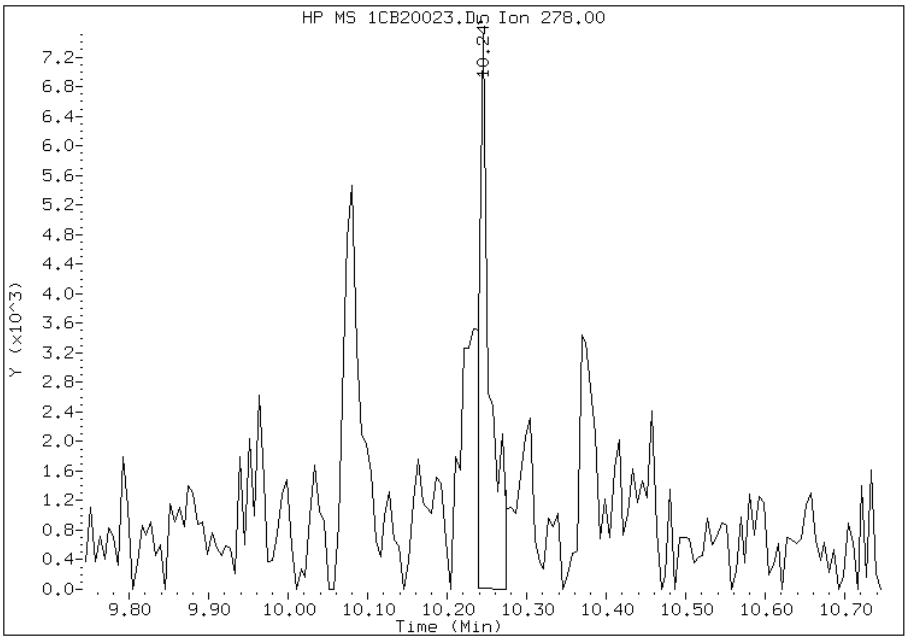
Processing Integration Results

RT: 10.25

Response: 7270

Amount: 0

Conc: 13



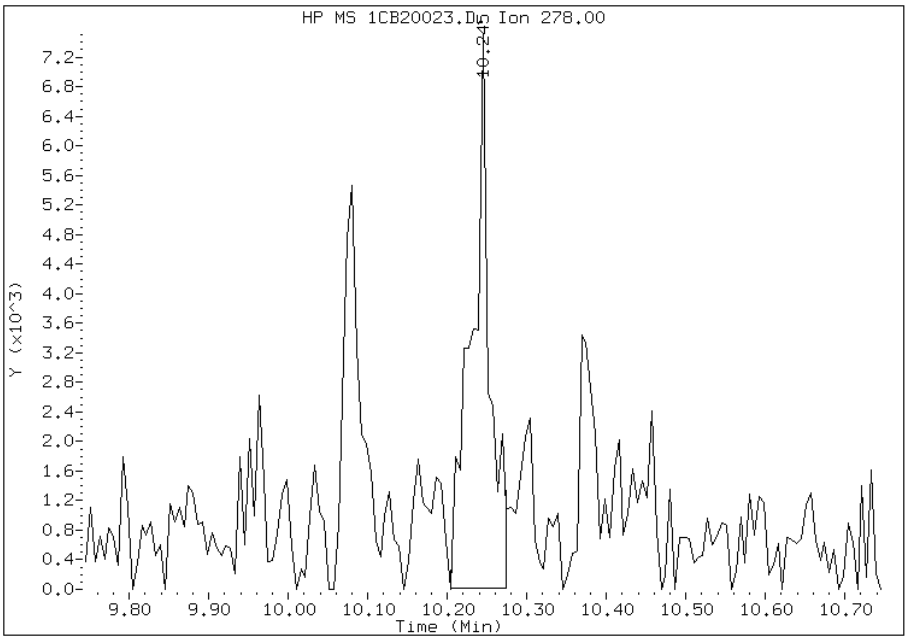
Manual Integration Results

RT: 10.25

Response: 11987

Amount: 0

Conc: 21



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20023.D
Inj. Date and Time: 20-FEB-2013 20:25
Instrument ID: BSMC5973.i
Client ID: CV0971I-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

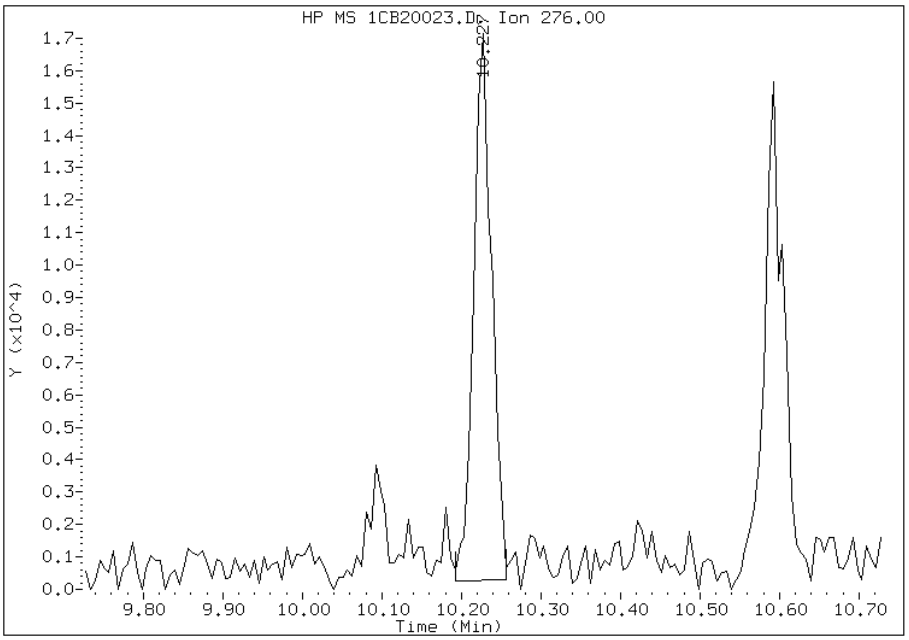
Processing Integration Results

RT: 10.23

Response: 26569

Amount: 0

Conc: 45



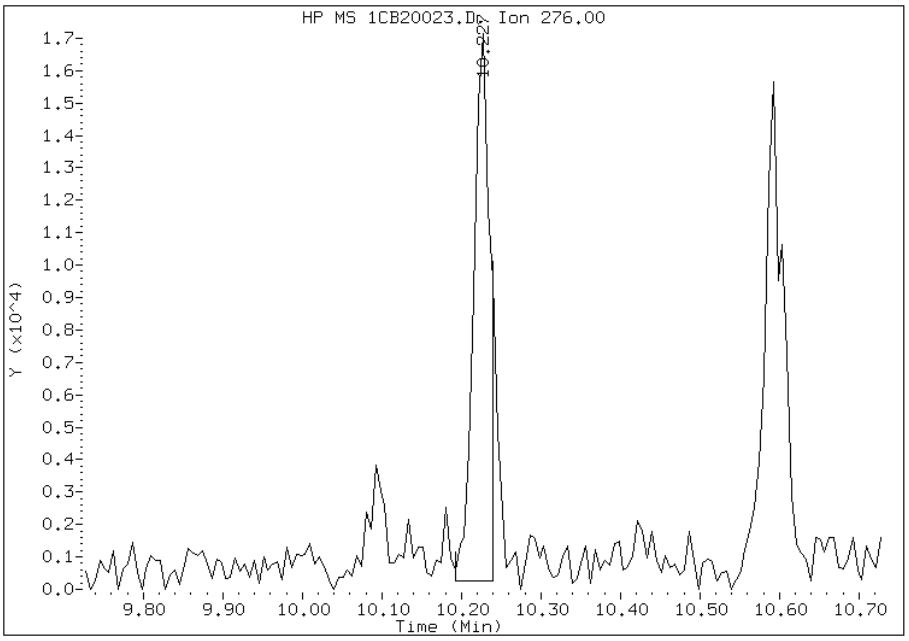
Manual Integration Results

RT: 10.23

Response: 24043

Amount: 0

Conc: 41



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971J-CS | Lab Sample ID: 680-87447-11

Matrix: Solid | Lab File ID: 1CB20024.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 09:27

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.45(g) | Date Analyzed: 02/20/2013 20:44

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

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

% Moisture: 34.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	9.4	J	60	7.4
120-12-7	Anthracene	27		12	6.2
56-55-3	Benzo[a]anthracene	92		12	5.8
50-32-8	Benzo[a]pyrene	89		15	7.7
205-99-2	Benzo[b]fluoranthene	130		18	9.1
191-24-2	Benzo[g,h,i]perylene	63		30	6.5
207-08-9	Benzo[k]fluoranthene	49		12	5.4
218-01-9	Chrysene	89		13	6.7
53-70-3	Dibenz(a,h)anthracene	21	J	30	6.1
206-44-0	Fluoranthene	170		30	6.0
86-73-7	Fluorene	12	J	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	62		30	11
90-12-0	1-Methylnaphthalene	27	J	60	6.5
91-57-6	2-Methylnaphthalene	34	J	60	11
91-20-3	Naphthalene	45	J	60	6.5
85-01-8	Phenanthrene	98		12	5.8
129-00-0	Pyrene	140		30	5.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20024.D
Lab Smp Id: 680-87447-A-11-A Client Smp ID: CV0971J-CS
Inj Date : 20-FEB-2013 20:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-11-a
Misc Info : 680-87447-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.450	Weight Extracted
M	34.744	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2098242	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1624138	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2970693	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	342873	7.87717	781.3093
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3223771	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2915442	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	25464	0.45798	45.4254
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	12337	0.34125	33.8469
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	8985	0.27326	27.1038
5 Acenaphthylene	152	4.810	4.810	(0.982)	6144	0.09509	9.4312
9 Fluorene	166	5.239	5.239	(1.070)	6216	0.11949	11.8518
11 Phenanthrene	178	5.868	5.869	(1.003)	88033	0.99278	98.4704
12 Anthracene	178	5.898	5.904	(1.008)	21575	0.27005	26.7856
13 Carbazole	167	6.010	6.010	(1.027)	16077	0.23167	22.9787

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.710	(1.146)	152837	1.76392	174.9575
16 Pyrene	202	6.874	6.880	(0.882)	121695	1.41795	140.6415
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	82753	0.93086	92.3283
19 Chrysene	228	7.815	7.827	(1.002)	82213	0.89528	88.8001
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	93642	1.31010	129.9440
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	38580	0.48994	48.5956
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	61186	0.89960	89.2284
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	40970	0.62716	62.2056(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	13126	0.21307	21.1337(M)
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	41887	0.63122	62.6086

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB20024.D

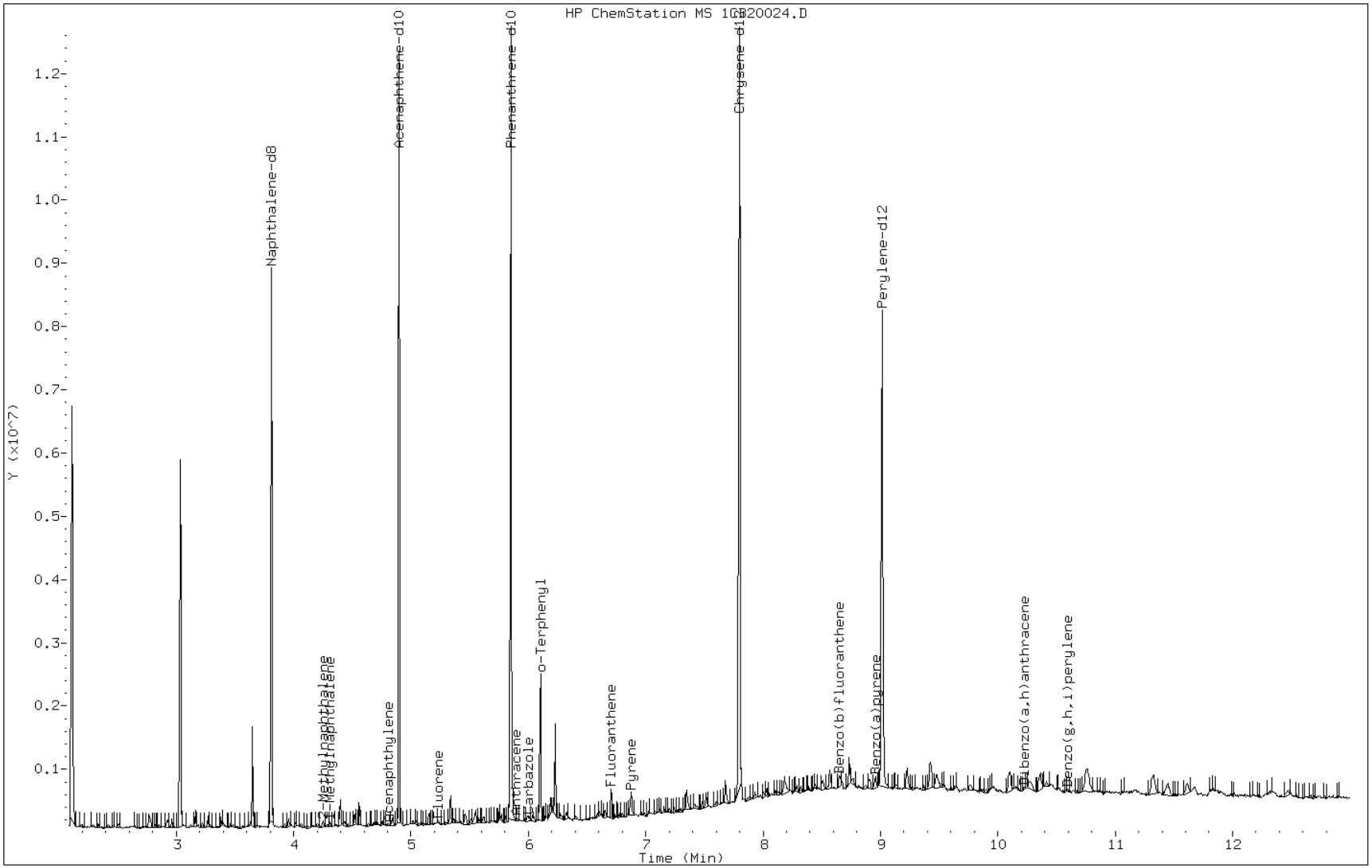
Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a

Operator: SCC



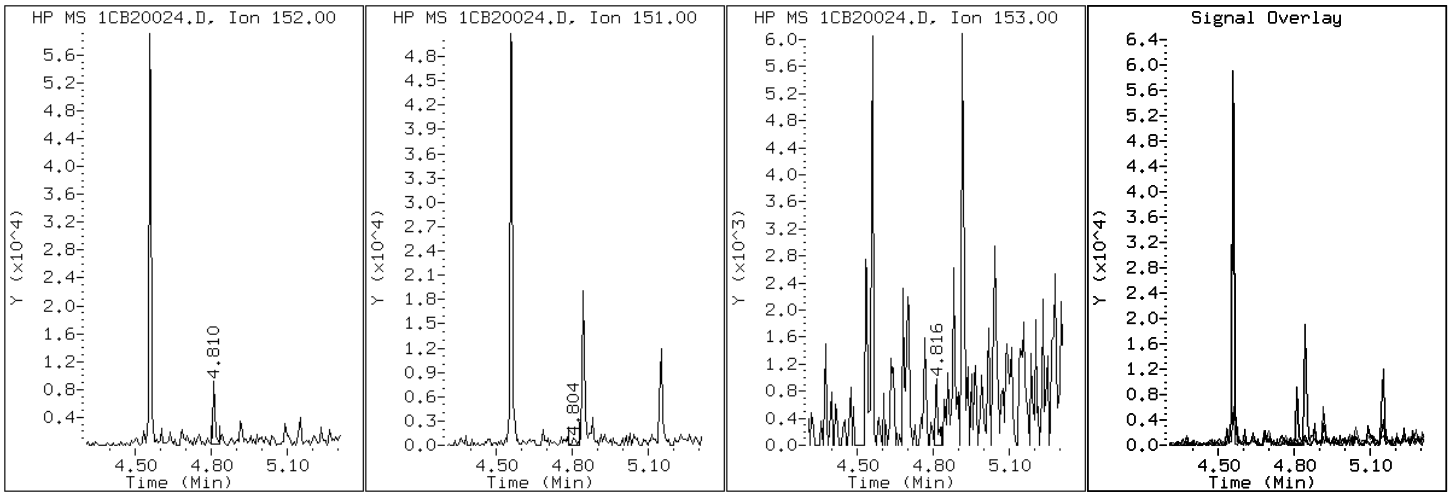
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

5 Acenaphthylene



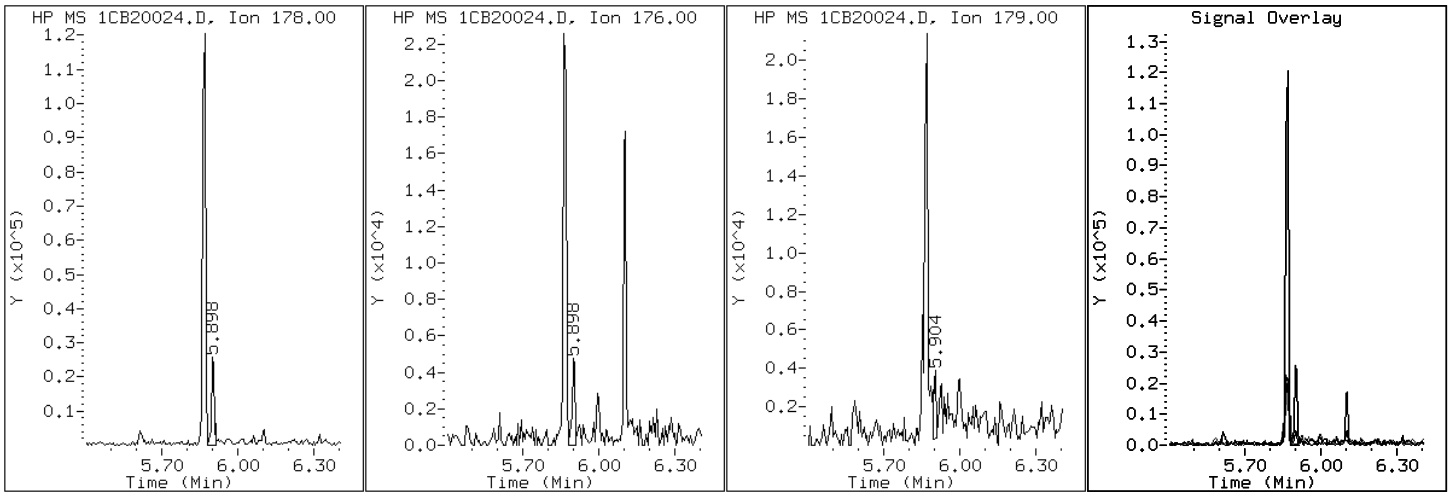
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

12 Anthracene



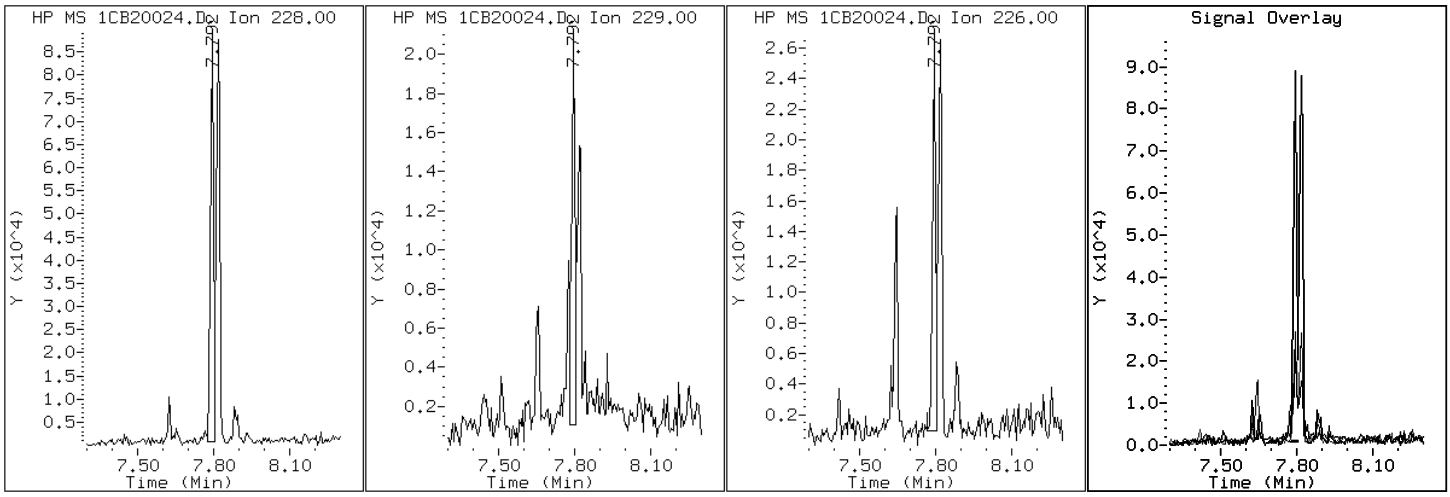
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

17 Benzo(a)anthracene



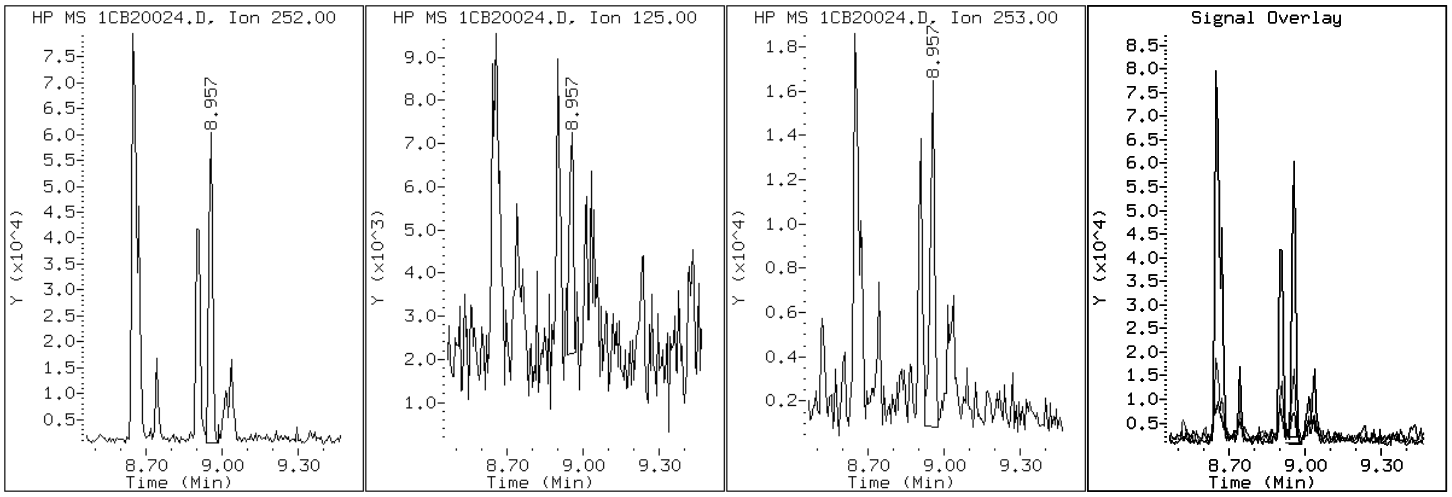
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

22 Benzo(a)pyrene



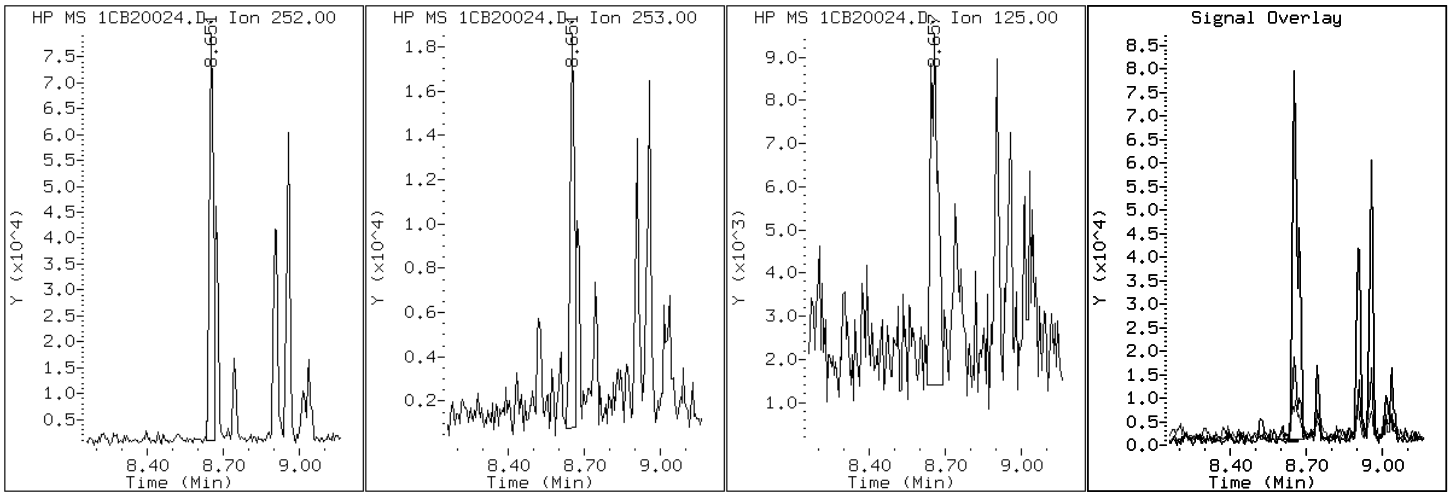
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

20 Benzo(b)fluoranthene



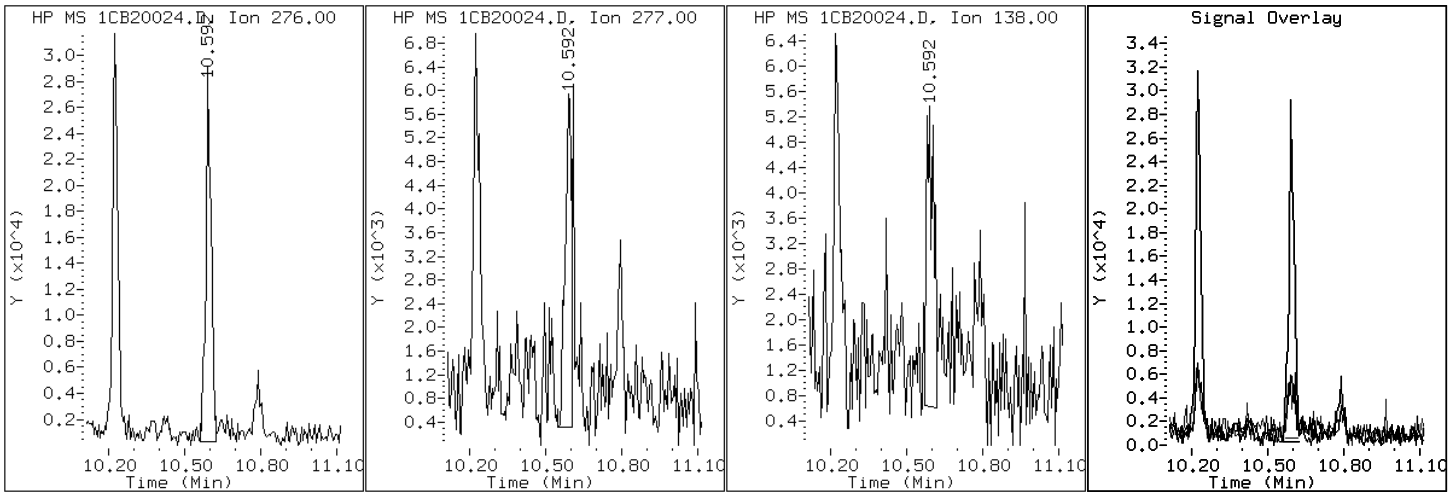
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

26 Benzo(g,h,i)perylene



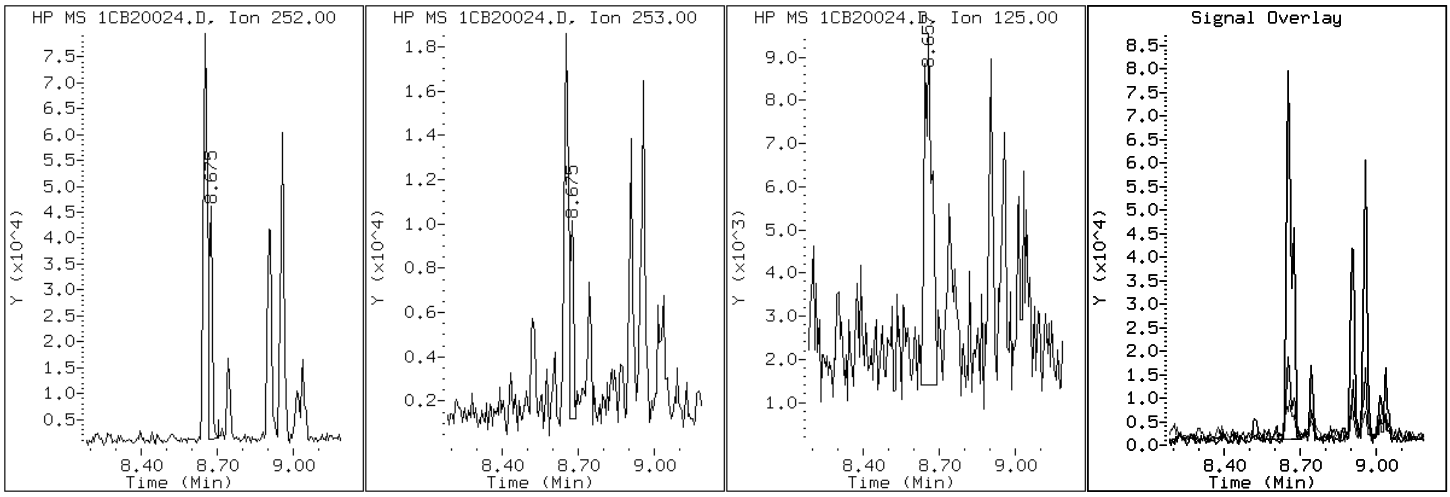
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

21 Benzo(k)fluoranthene



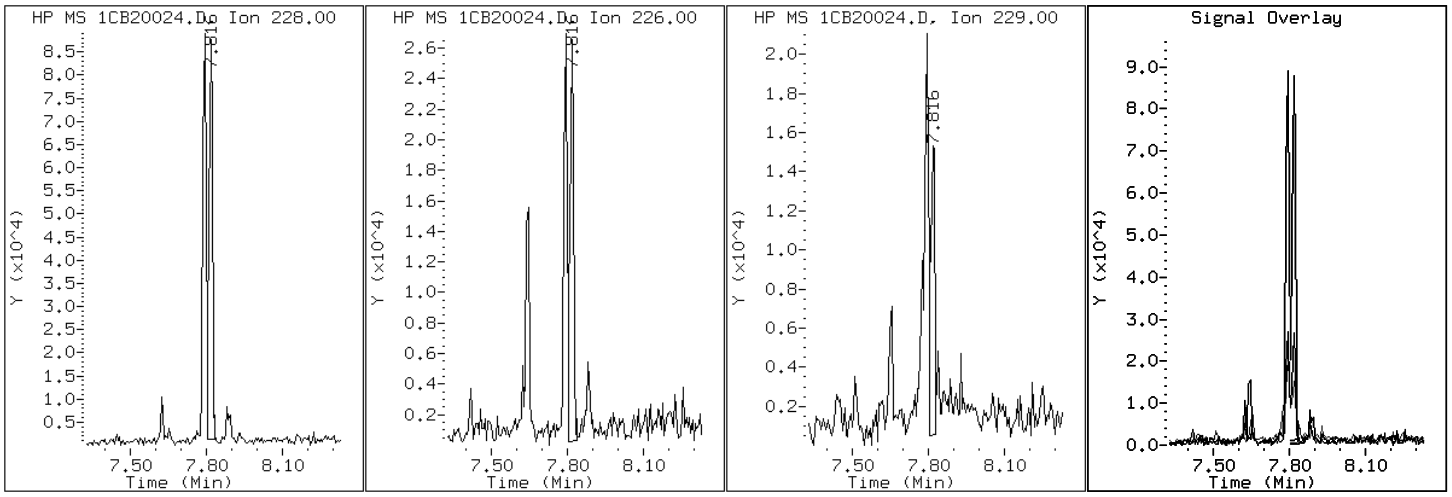
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

19 Chrysene



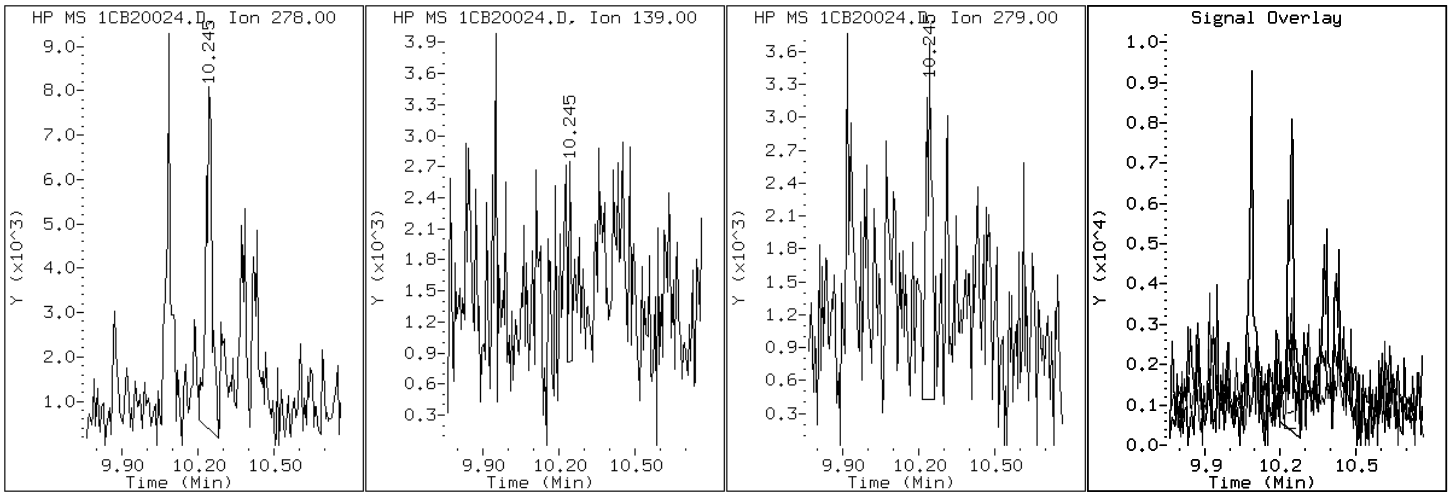
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

25 Dibenzo(a,h)anthracene



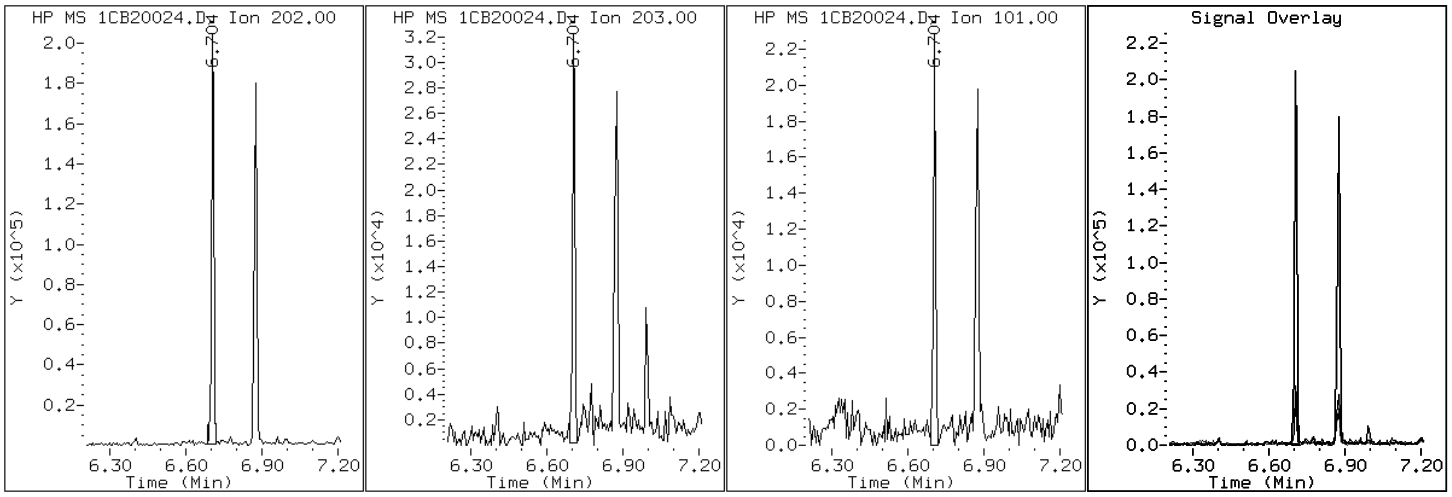
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

15 Fluoranthene



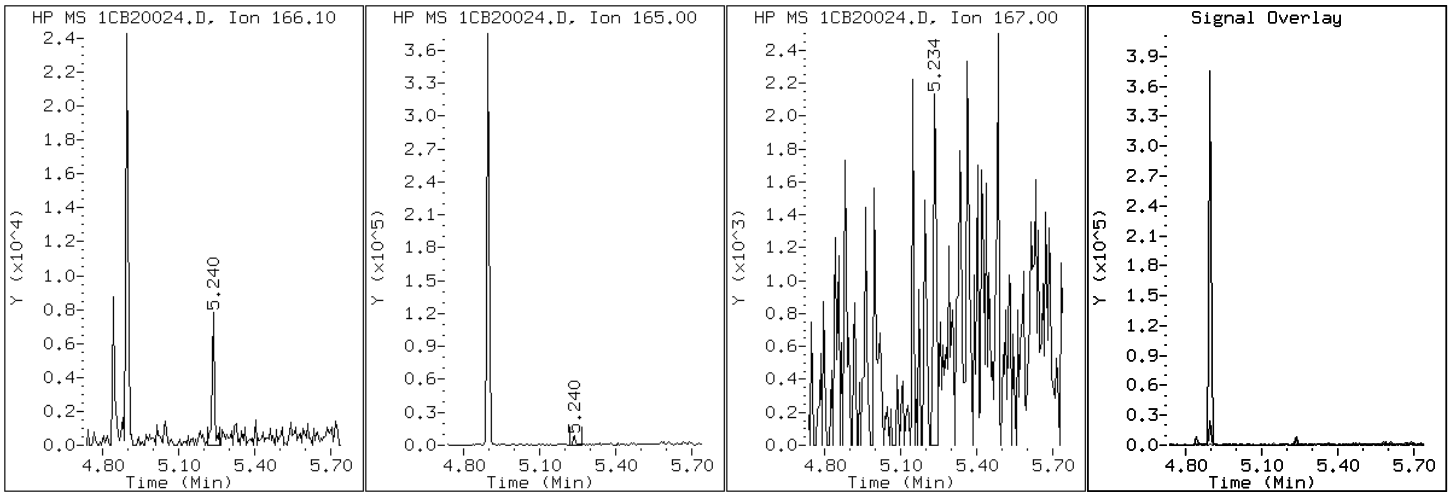
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

9 Fluorene



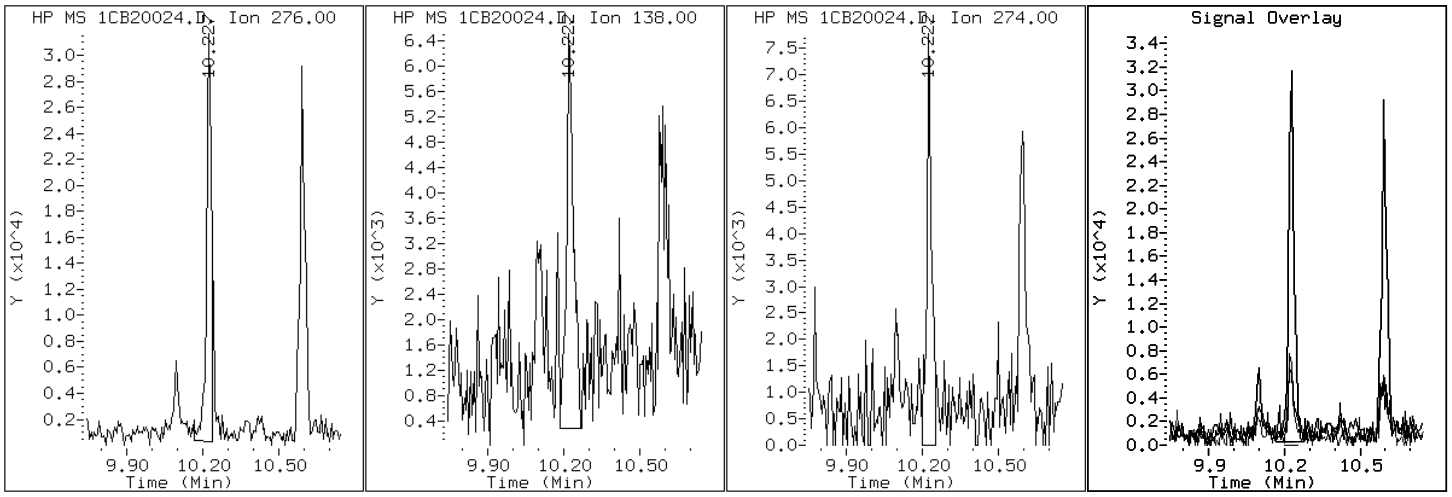
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

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



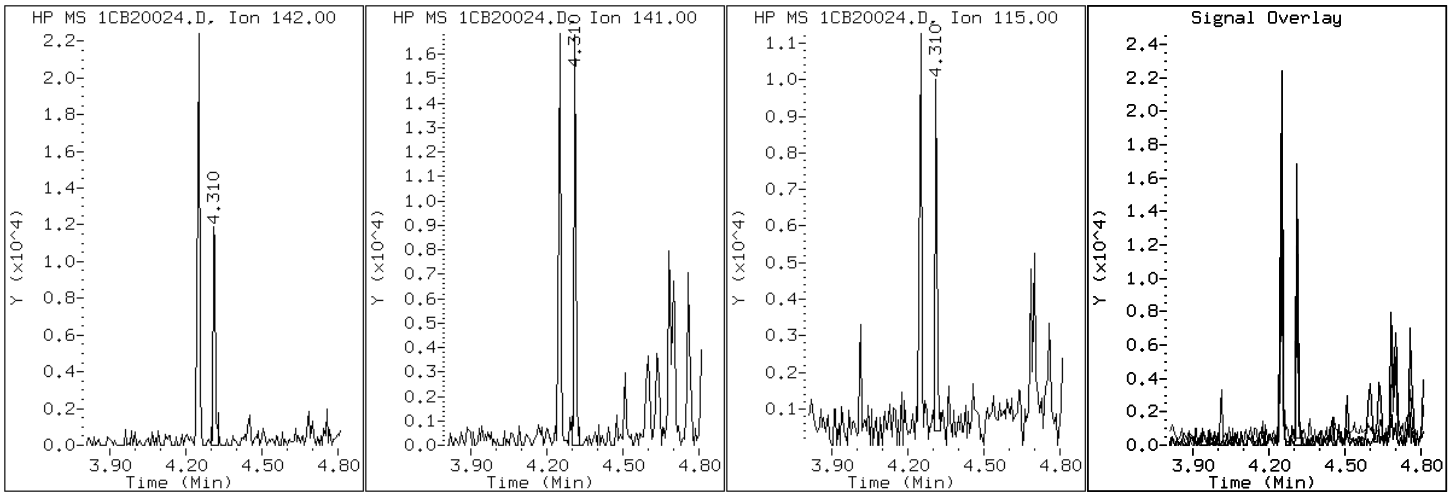
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

4 1-Methylnaphthalene



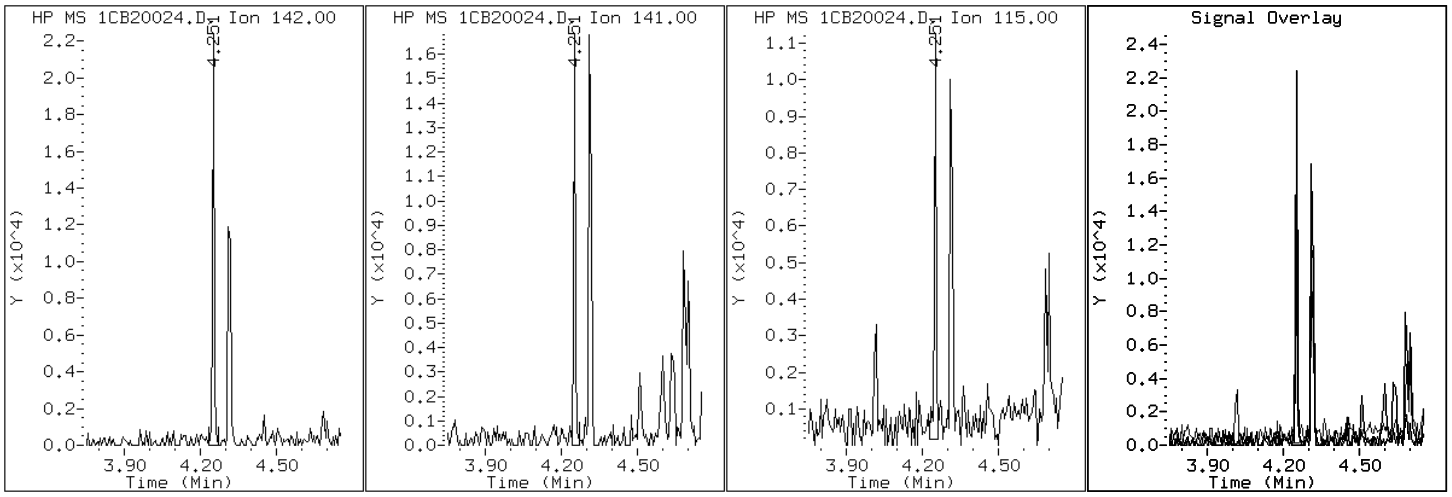
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

3 2-Methylnaphthalene



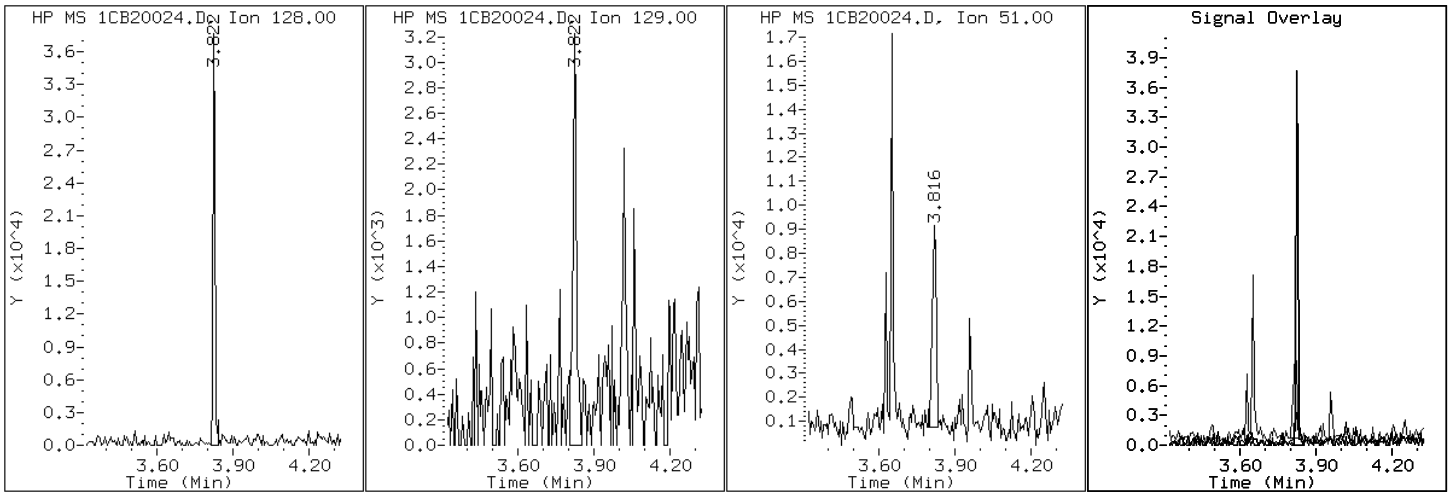
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

2 Naphthalene



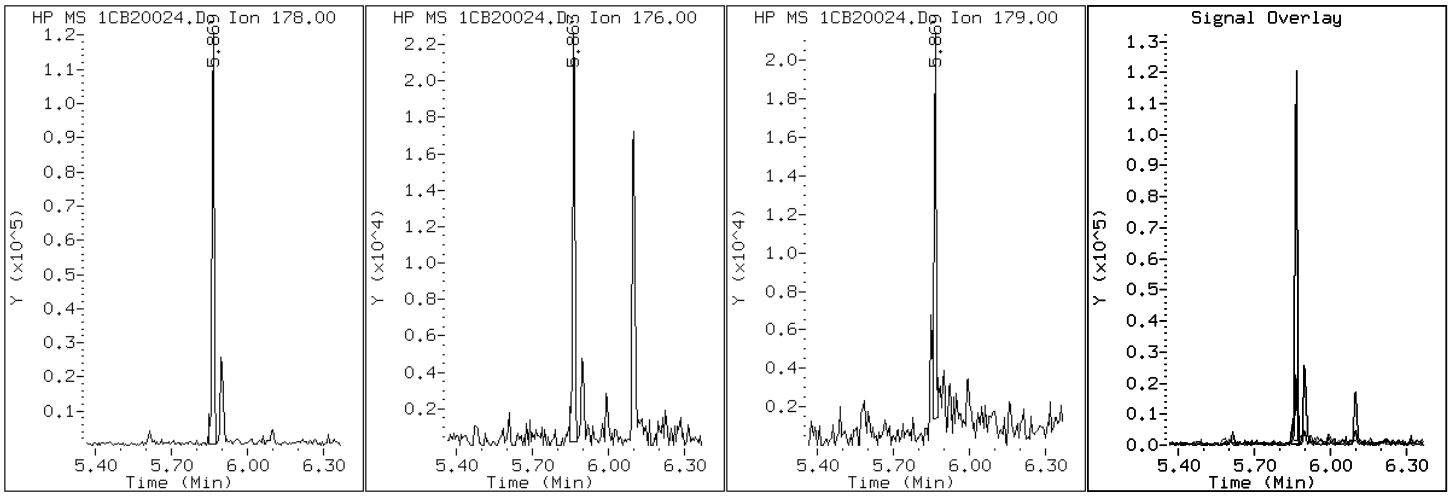
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

11 Phenanthrene



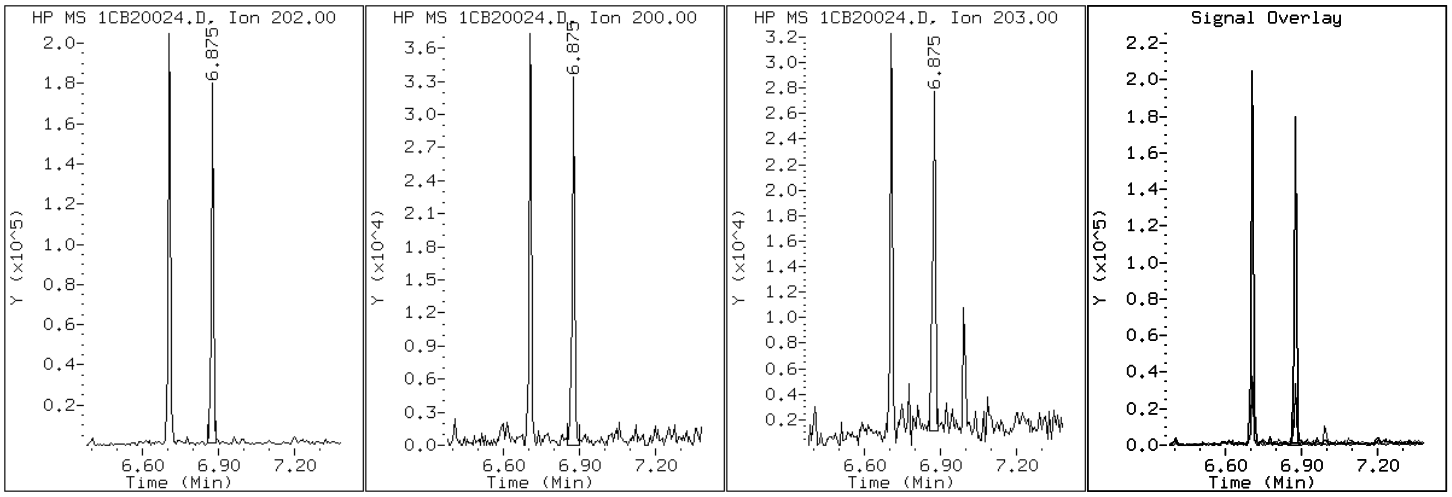
Data File: 1CB20024.D

Date: 20-FEB-2013 20:44

Client ID: CV0971J-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-11-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20024.D
Inj. Date and Time: 20-FEB-2013 20:44
Instrument ID: BSMC5973.i
Client ID: CV0971J-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/21/2013

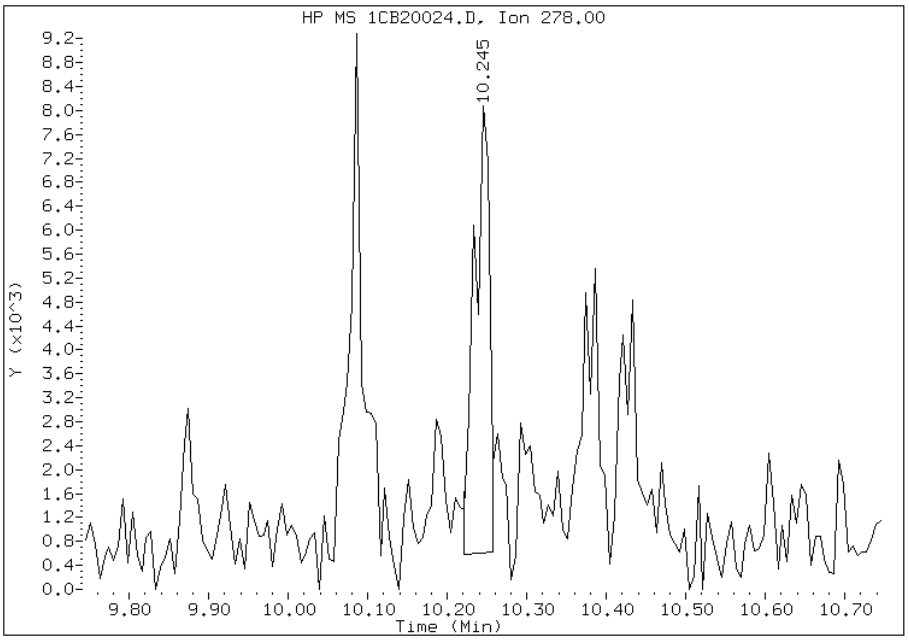
Processing Integration Results

RT: 10.25

Response: 9877

Amount: 0

Conc: 16



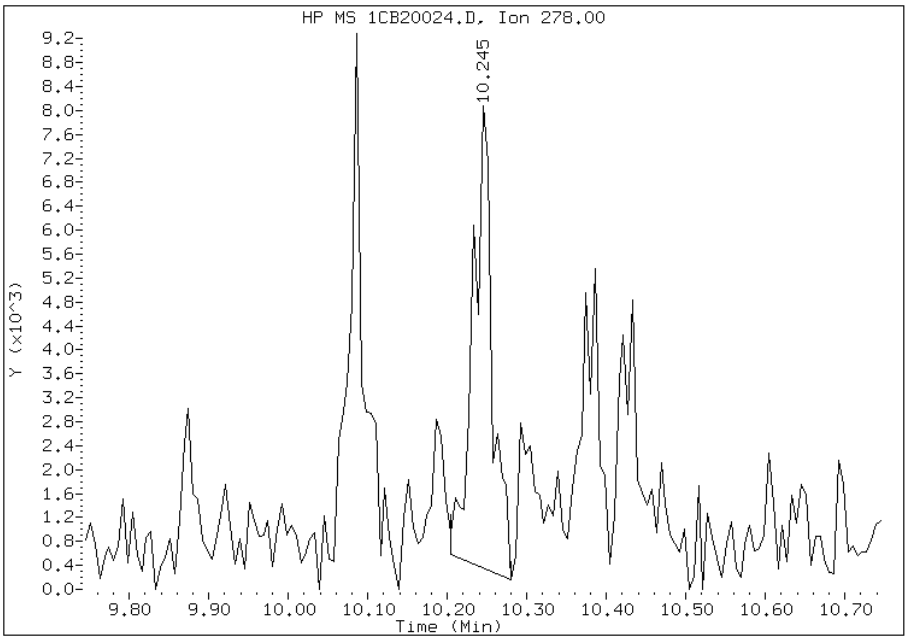
Manual Integration Results

RT: 10.25

Response: 13126

Amount: 0

Conc: 21



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20024.D
Inj. Date and Time: 20-FEB-2013 20:44
Instrument ID: BSMC5973.i
Client ID: CV0971J-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

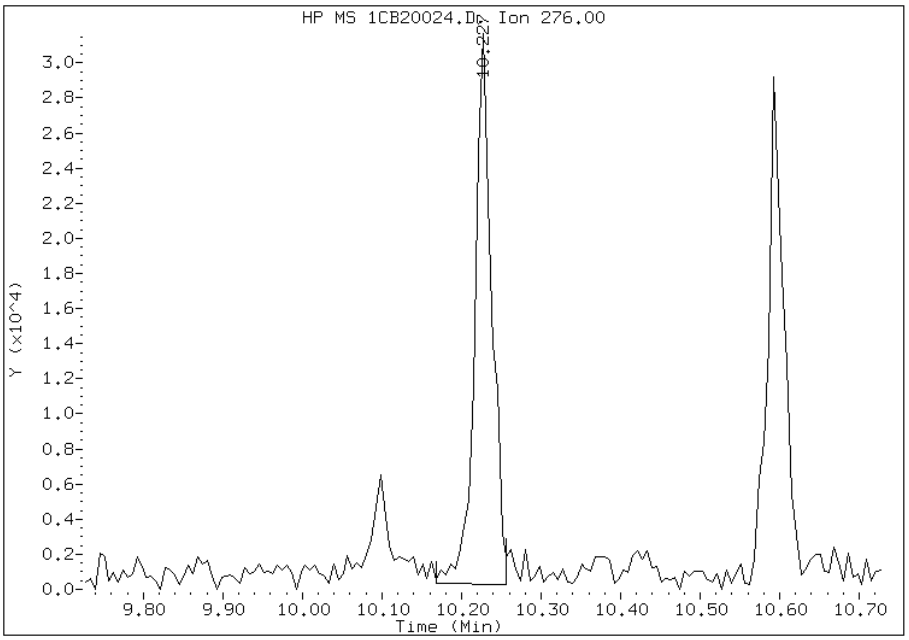
Processing Integration Results

RT: 10.23

Response: 46475

Amount: 1

Conc: 71



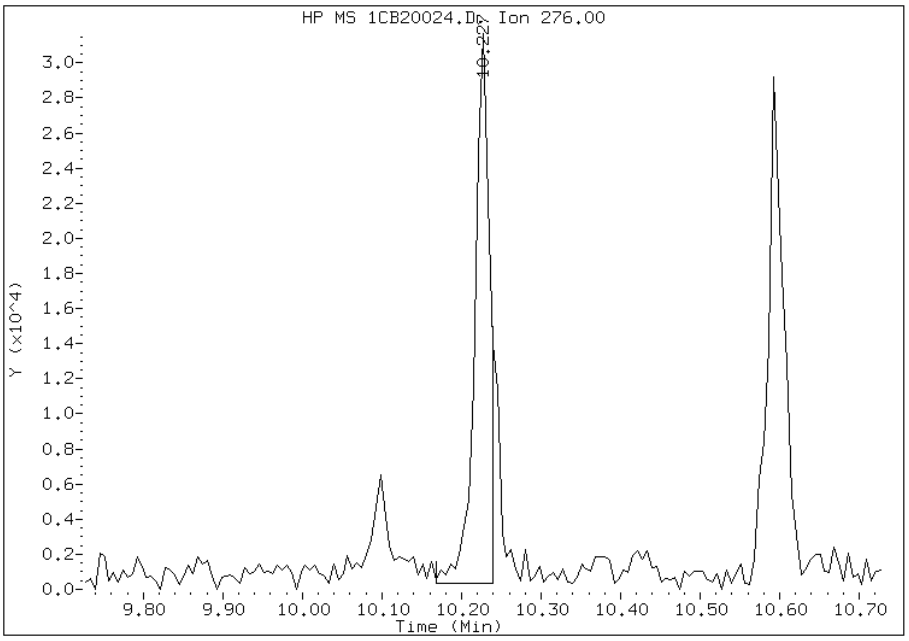
Manual Integration Results

RT: 10.23

Response: 40970

Amount: 1

Conc: 62



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971K-CS | Lab Sample ID: 680-87447-12

Matrix: Solid | Lab File ID: 1CB20025.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 09:40

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.19(g) | Date Analyzed: 02/20/2013 21:02

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

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

% Moisture: 47.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	190	U	190	37
208-96-8	Acenaphthylene	20	J	75	9.4
120-12-7	Anthracene	68		16	7.9
56-55-3	Benzo[a]anthracene	410		15	7.3
50-32-8	Benzo[a]pyrene	410		19	9.7
205-99-2	Benzo[b]fluoranthene	620		23	11
191-24-2	Benzo[g,h,i]perylene	270		37	8.2
207-08-9	Benzo[k]fluoranthene	220		15	6.7
218-01-9	Chrysene	370		17	8.4
53-70-3	Dibenz(a,h)anthracene	76		37	7.7
206-44-0	Fluoranthene	810		37	7.5
86-73-7	Fluorene	23	J	37	7.7
193-39-5	Indeno[1,2,3-cd]pyrene	250		37	13
90-12-0	1-Methylnaphthalene	36	J	75	8.2
91-57-6	2-Methylnaphthalene	40	J	75	13
91-20-3	Naphthalene	56	J	75	8.2
85-01-8	Phenanthrene	310		15	7.3
129-00-0	Pyrene	720		37	6.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20025.D
Lab Smp Id: 680-87447-A-12-A Client Smp ID: CV0971K-CS
Inj Date : 20-FEB-2013 21:02
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-12-a
Misc Info : 680-87447-A-12-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	15.190	Weight Extracted
M	47.200	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2080323	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1677258	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3123969	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	384158	8.39263	1046.4202
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3286759	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3071604	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	24866	0.45108	56.2417
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	11484	0.32039	39.9469
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	9445	0.28973	36.1240
5 Acenaphthylene	152	4.810	4.810	(0.982)	10531	0.15782	19.6773
9 Fluorene	166	5.239	5.239	(1.070)	9771	0.18188	22.6773
11 Phenanthrene	178	5.868	5.869	(1.003)	233069	2.49944	311.6388
12 Anthracene	178	5.898	5.904	(1.008)	45567	0.54237	67.6250
13 Carbazole	167	6.009	6.010	(1.027)	33001	0.45222	56.3838

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.710	(1.146)	589534	6.47011	806.7141
16 Pyrene	202	6.874	6.880	(0.882)	503216	5.75094	717.0460
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	296672	3.27319	408.1123
19 Chrysene	228	7.815	7.827	(1.002)	277536	2.96440	369.6106
20 Benzo(b)fluoranthene	252	8.650	8.662	(0.960)	374223	4.96938	619.5992(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	144710	1.74429	217.4843(QM)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	237818	3.31881	413.8002
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	139958	2.03352	253.5455(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	39607	0.61024	76.0869
26 Benzo(g,h,i)perylene	276	10.597	10.615	(1.176)	151329	2.16453	269.8808

QC Flag Legend

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

Data File: 1CB20025.D

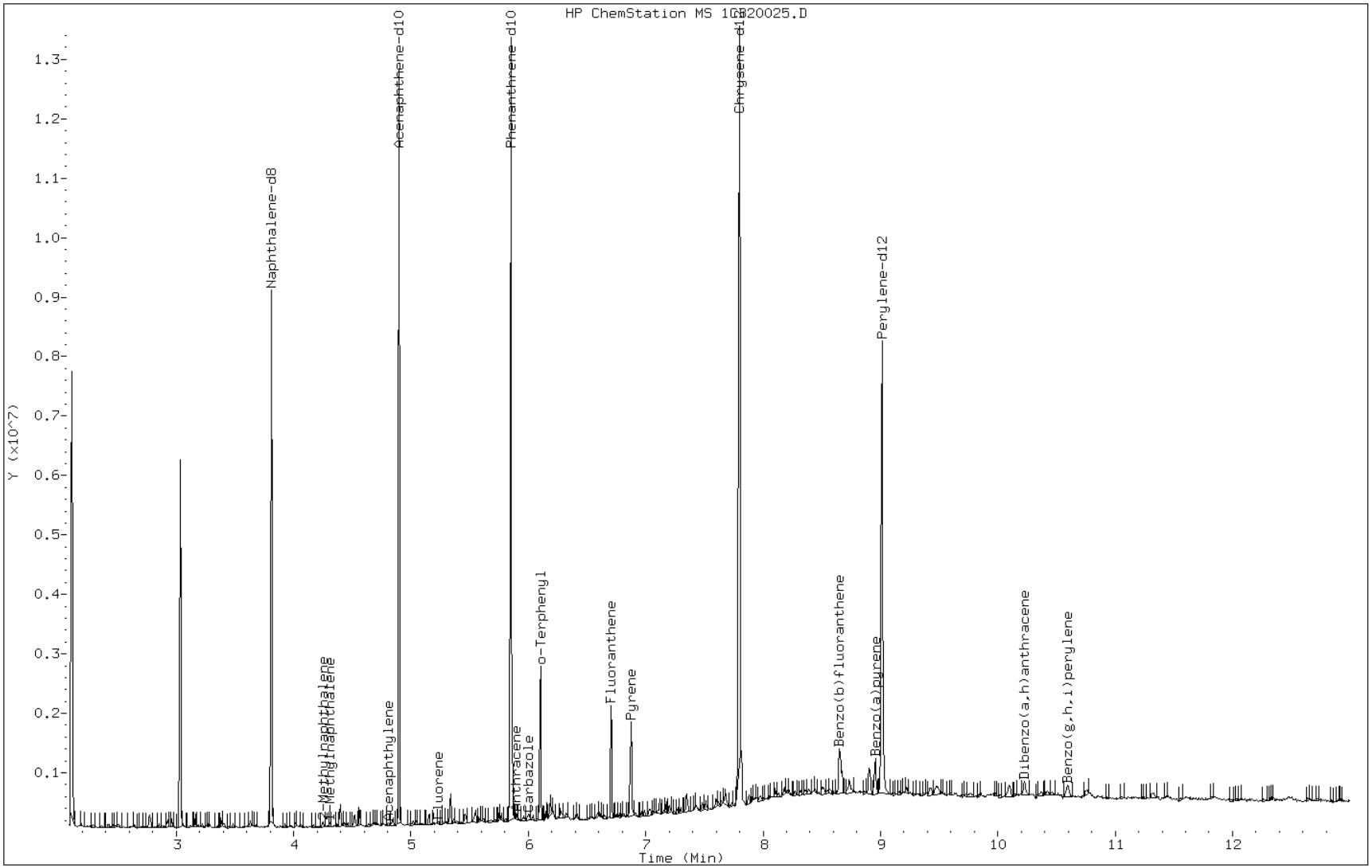
Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a

Operator: SCC



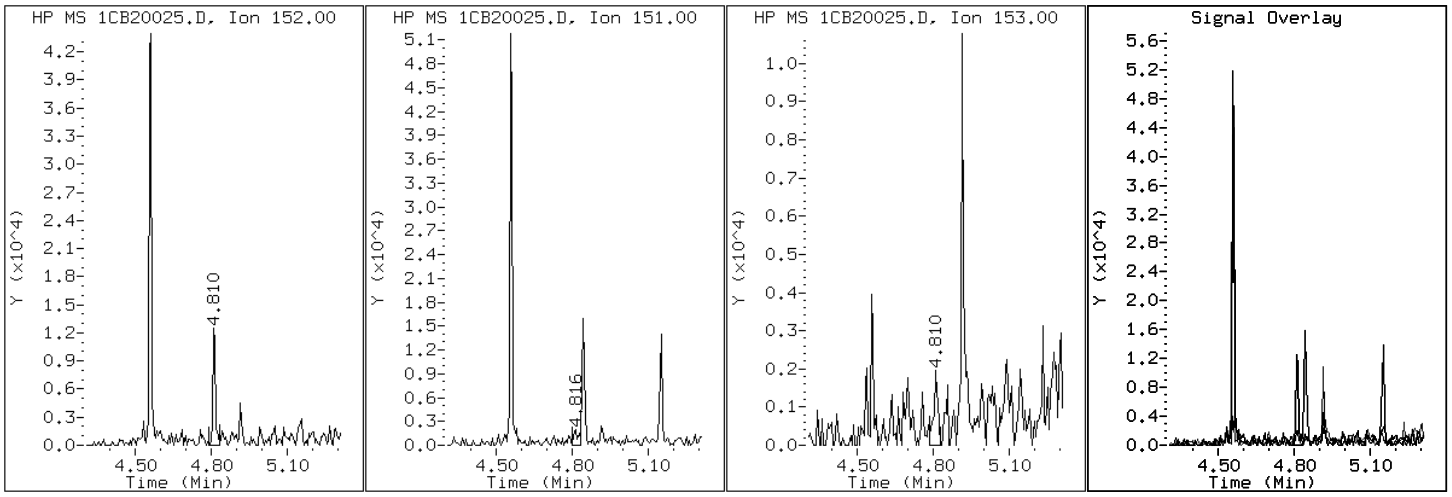
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

5 Acenaphthylene



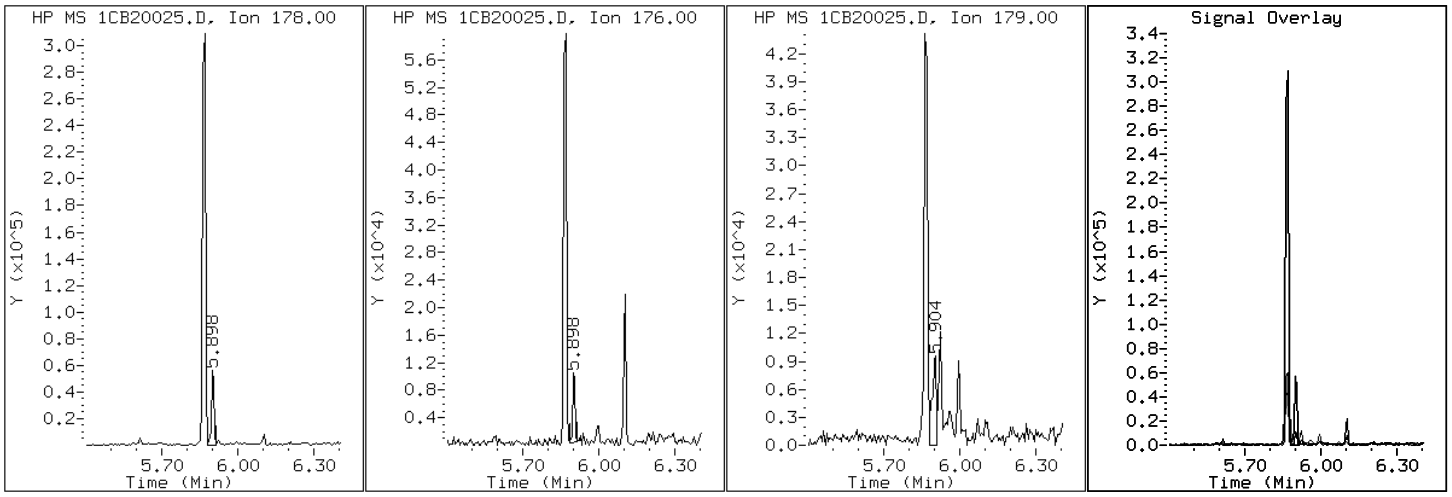
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

12 Anthracene



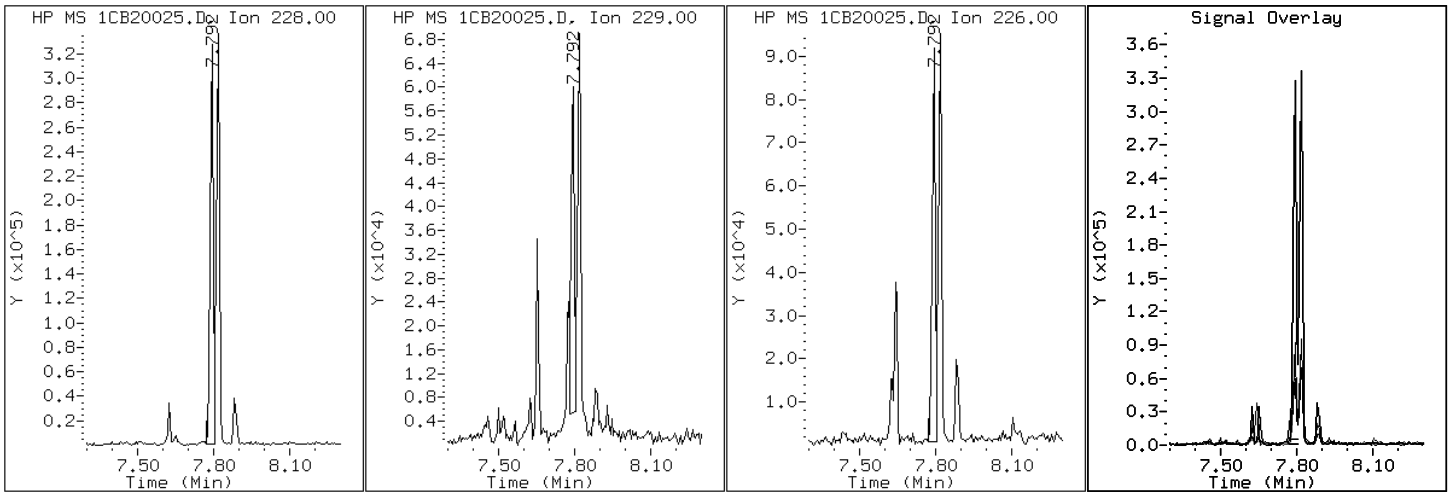
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

17 Benzo(a)anthracene



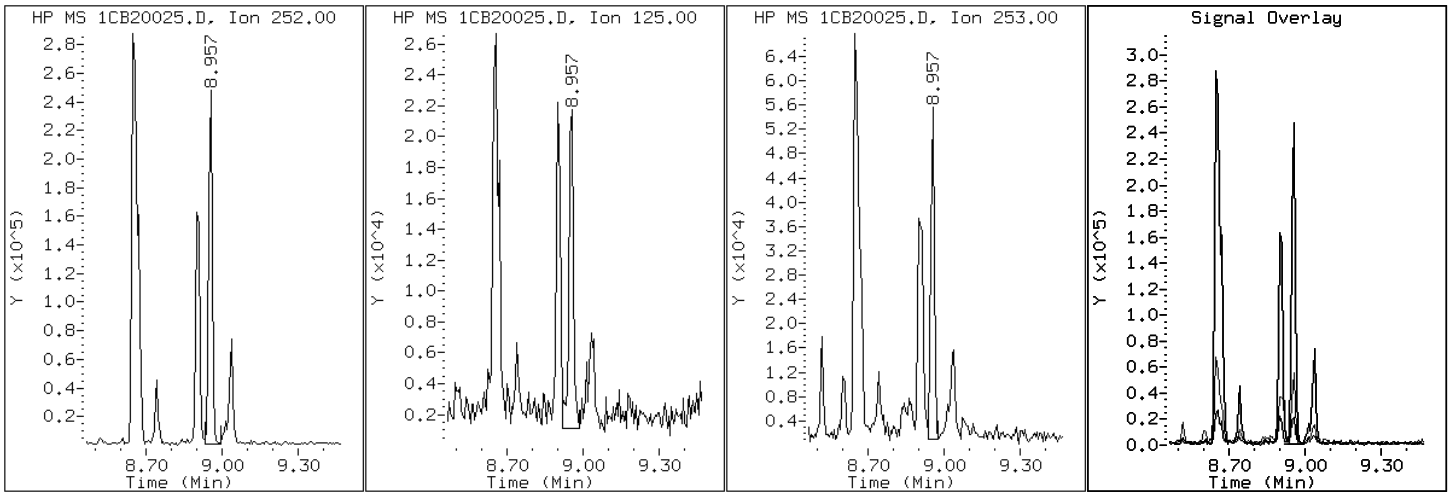
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

22 Benzo(a)pyrene



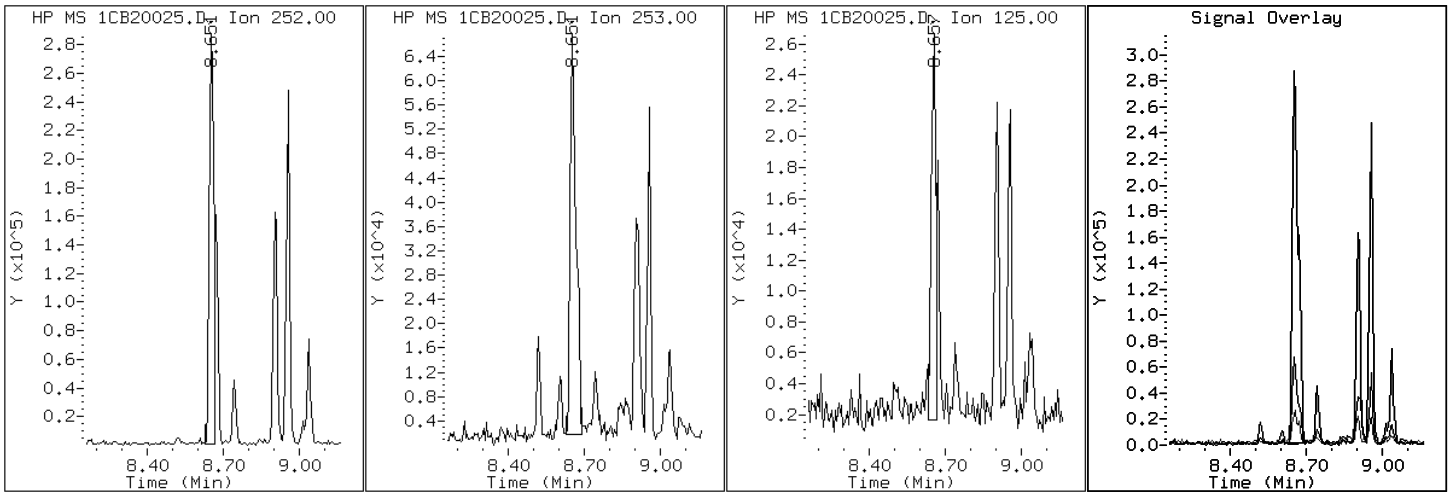
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

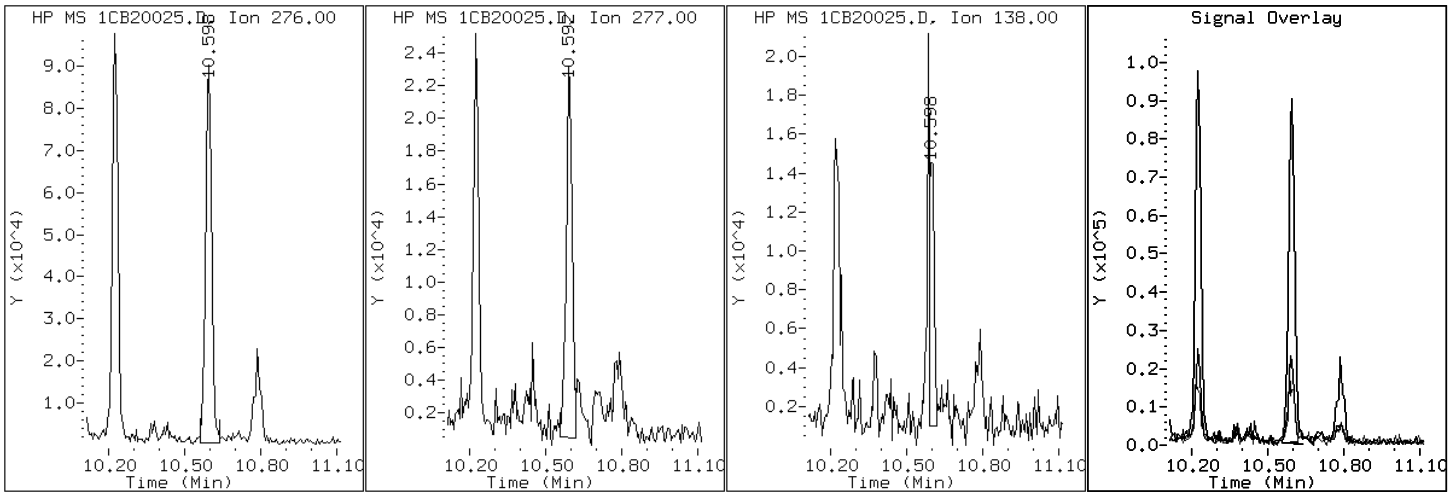
Client ID: CV0971K-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a

Operator: SCC

26 Benzo(g,h,i)perylene



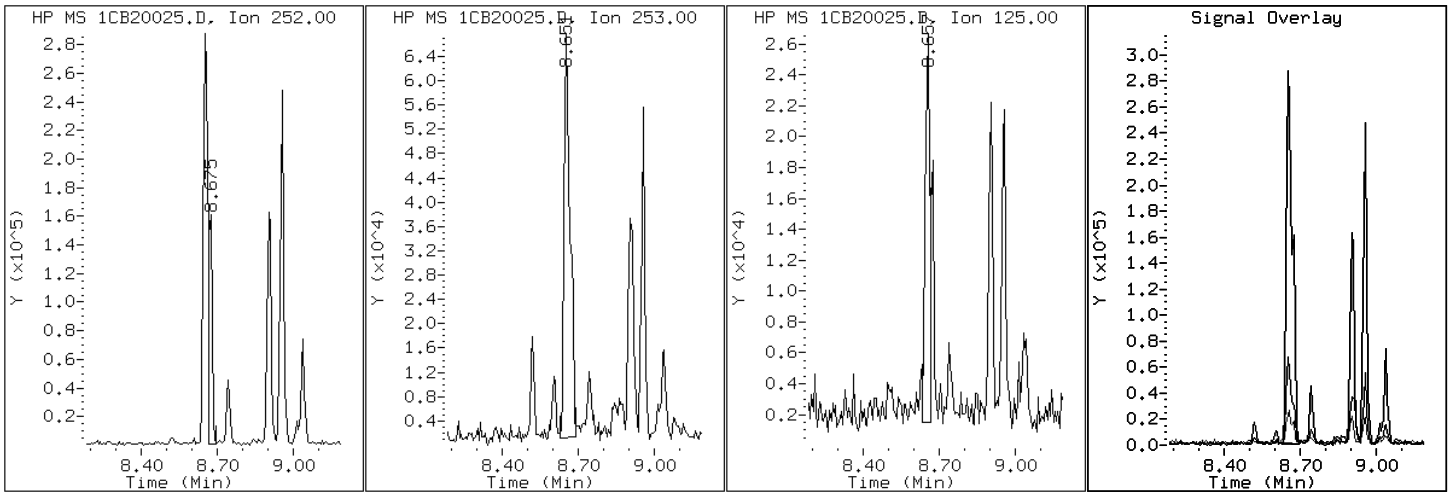
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

21 Benzo(k)fluoranthene



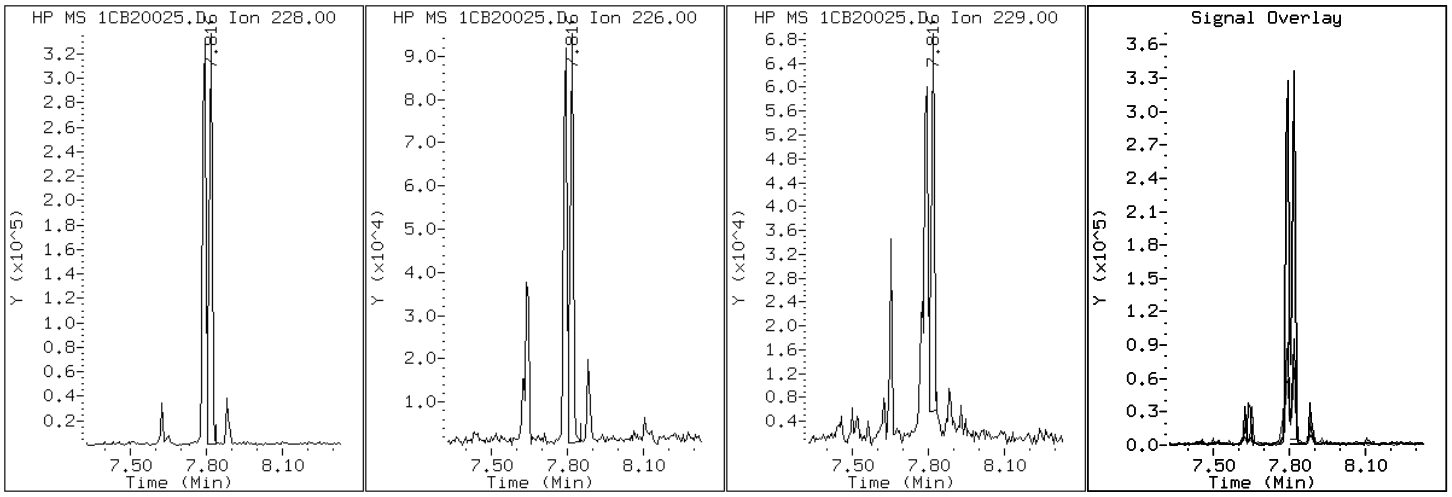
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

19 Chrysene



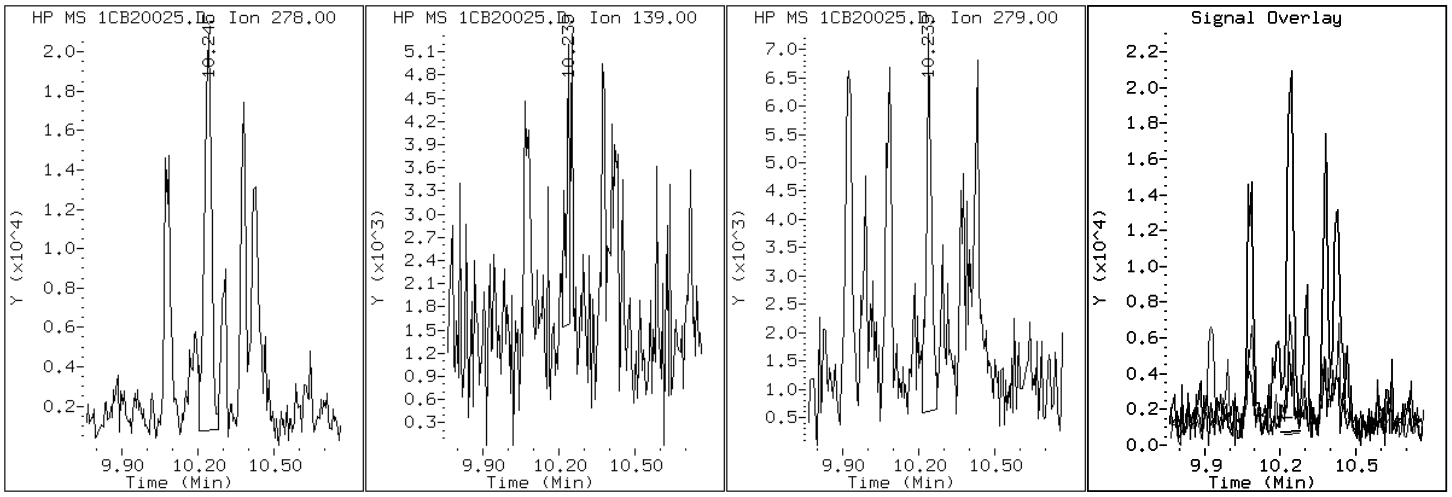
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

25 Dibenzo(a,h)anthracene



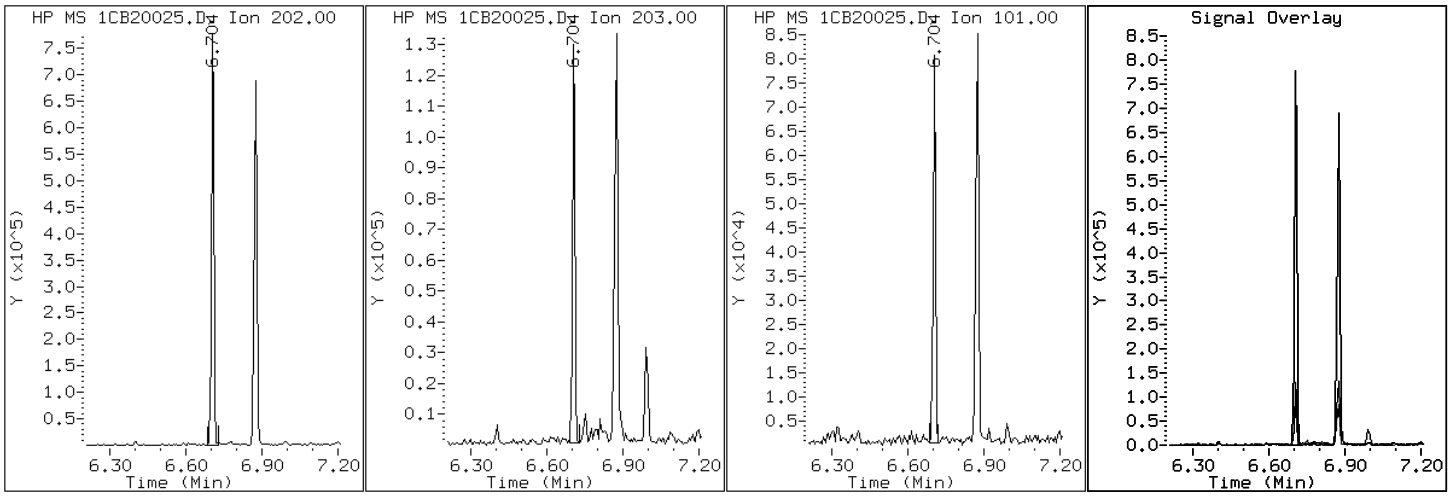
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

15 Fluoranthene



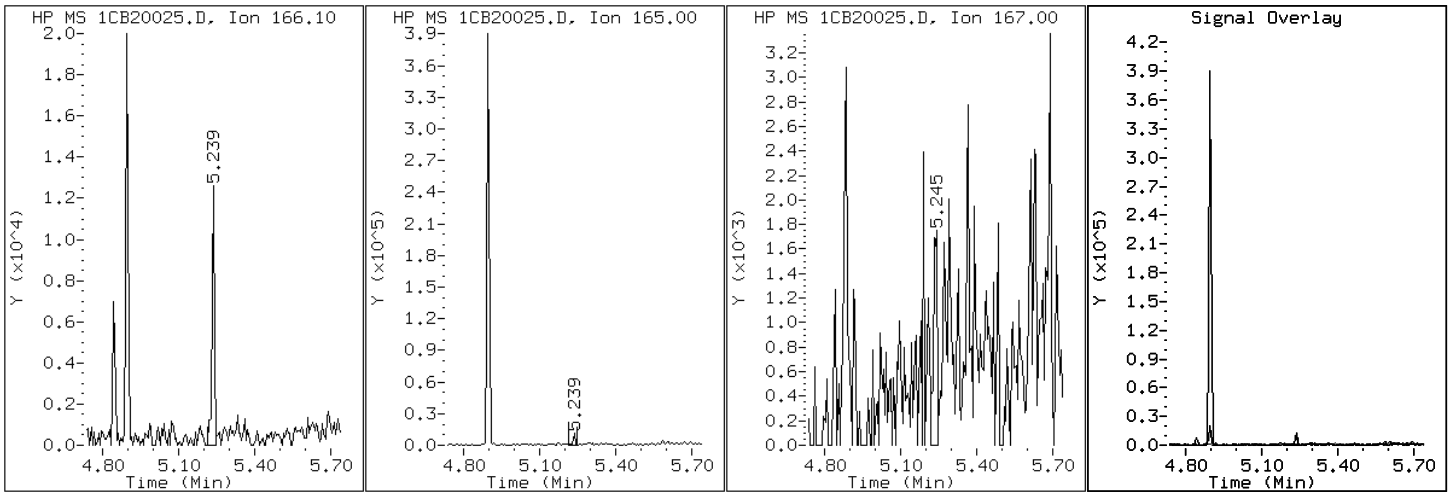
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

9 Fluorene



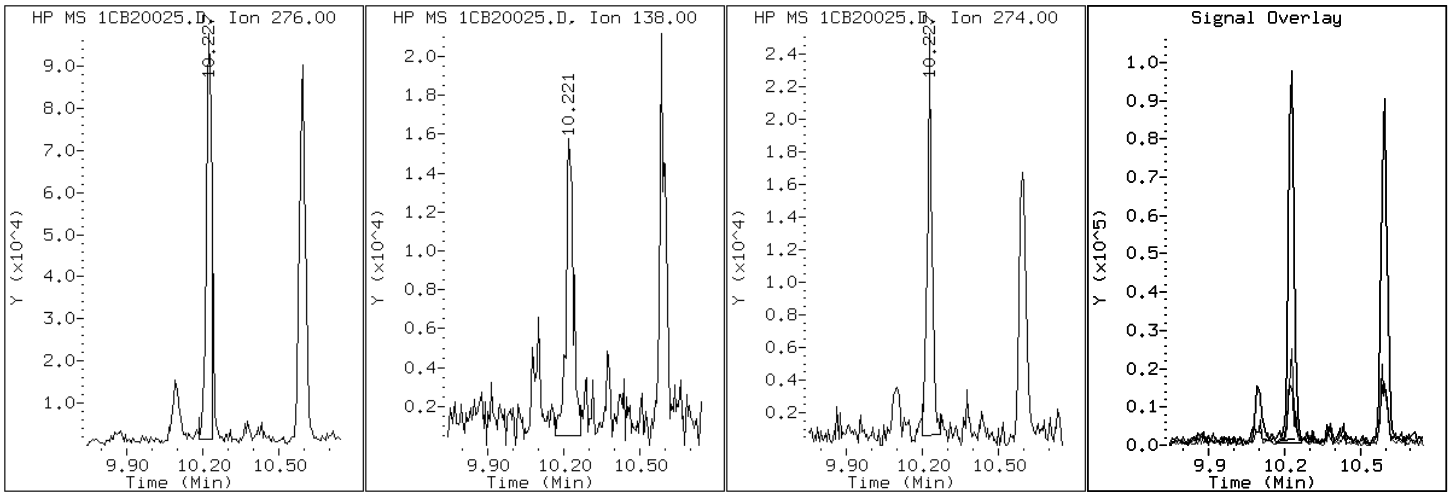
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

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



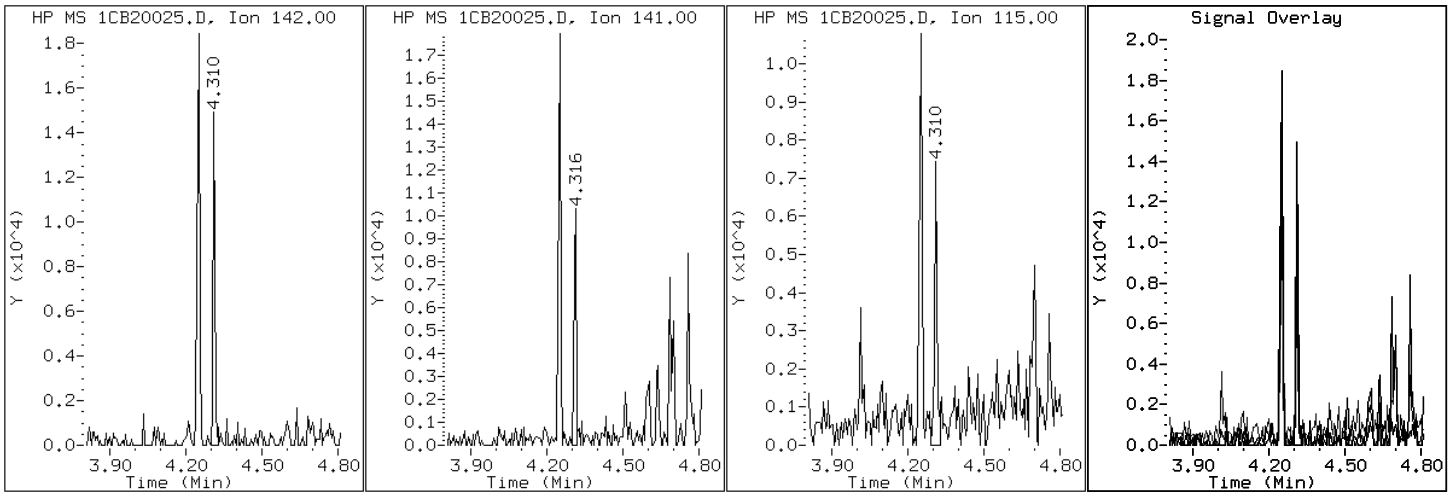
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

4 1-Methylnaphthalene



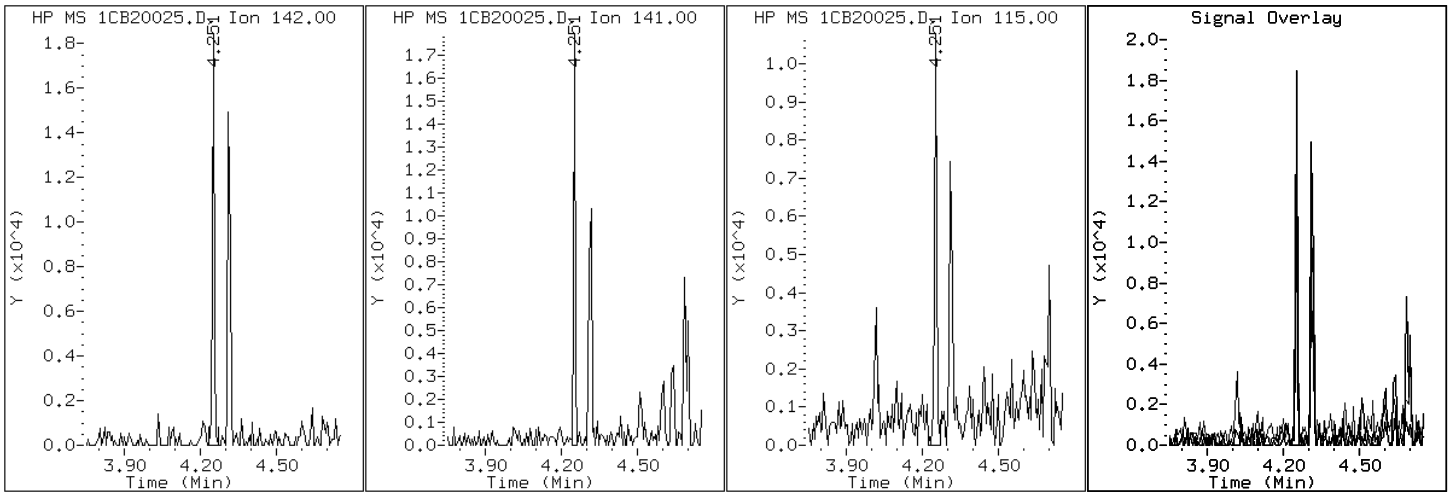
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

3 2-Methylnaphthalene



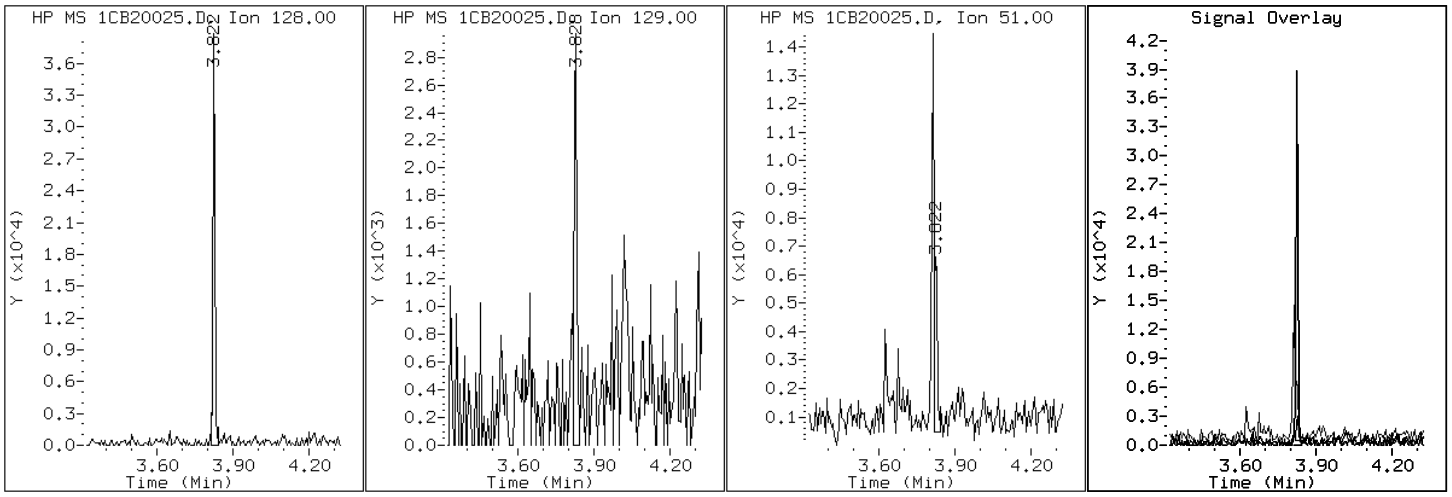
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

2 Naphthalene



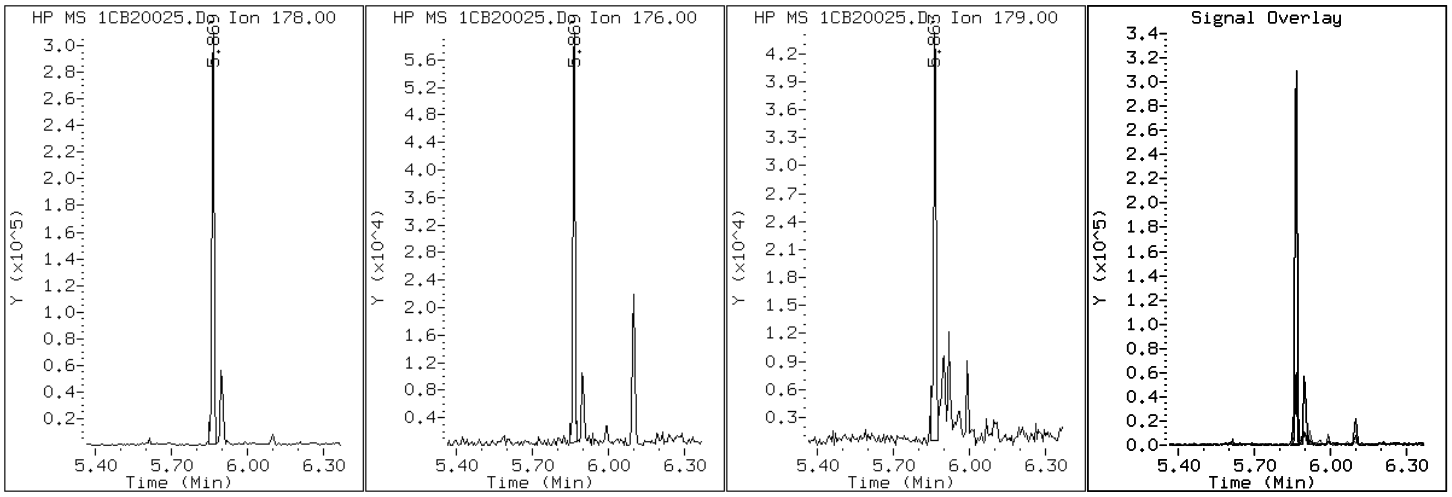
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

11 Phenanthrene



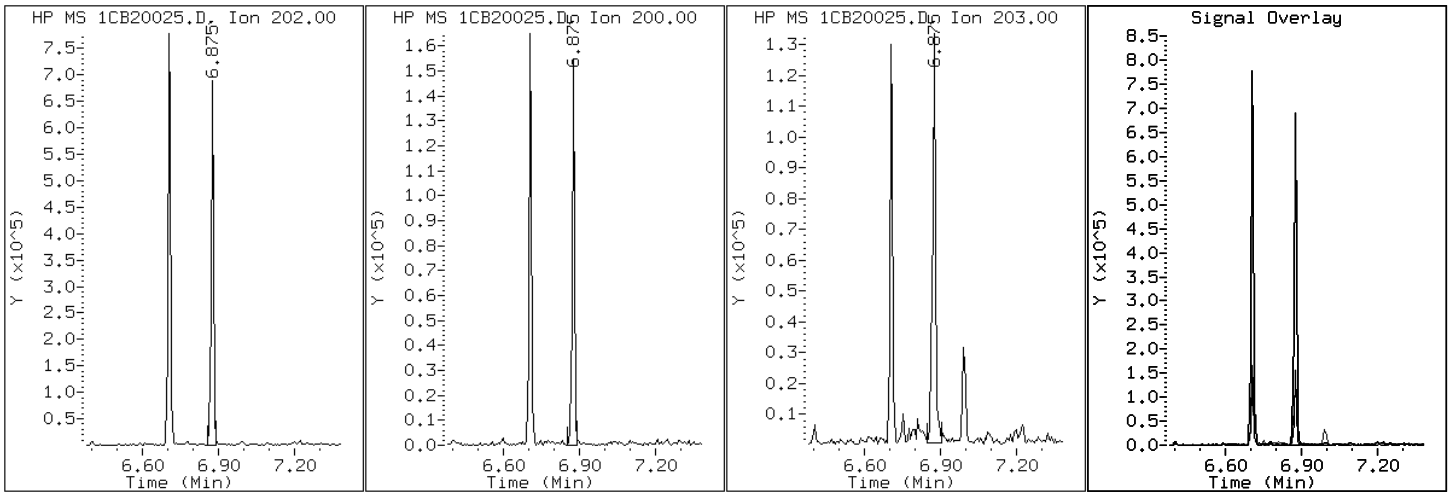
Data File: 1CB20025.D

Date: 20-FEB-2013 21:02

Client ID: CV0971K-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-12-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20025.D
Inj. Date and Time: 20-FEB-2013 21:02
Instrument ID: BSMC5973.i
Client ID: CV0971K-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

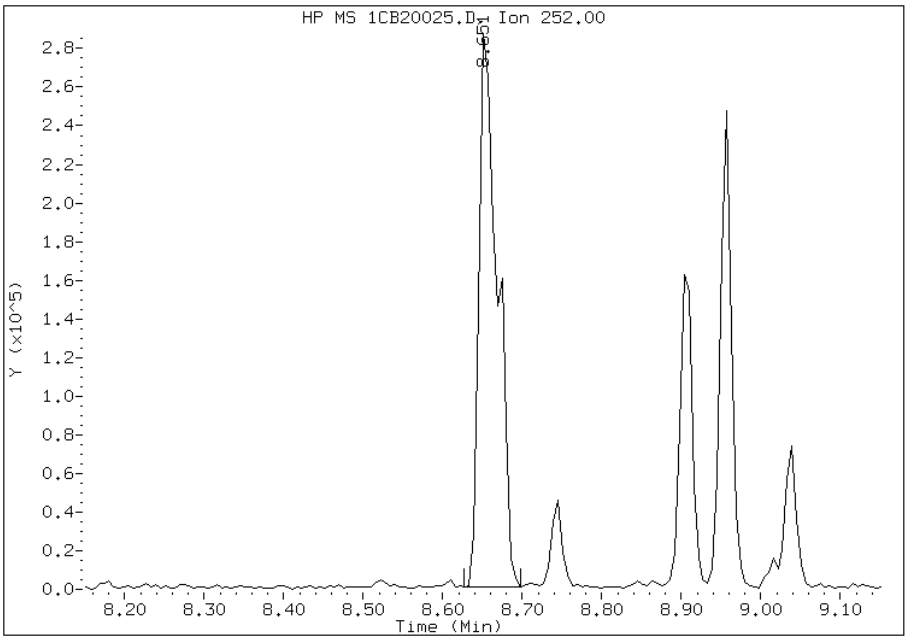
Processing Integration Results

RT: 8.65

Response: 467075

Amount: 6

Conc: 773



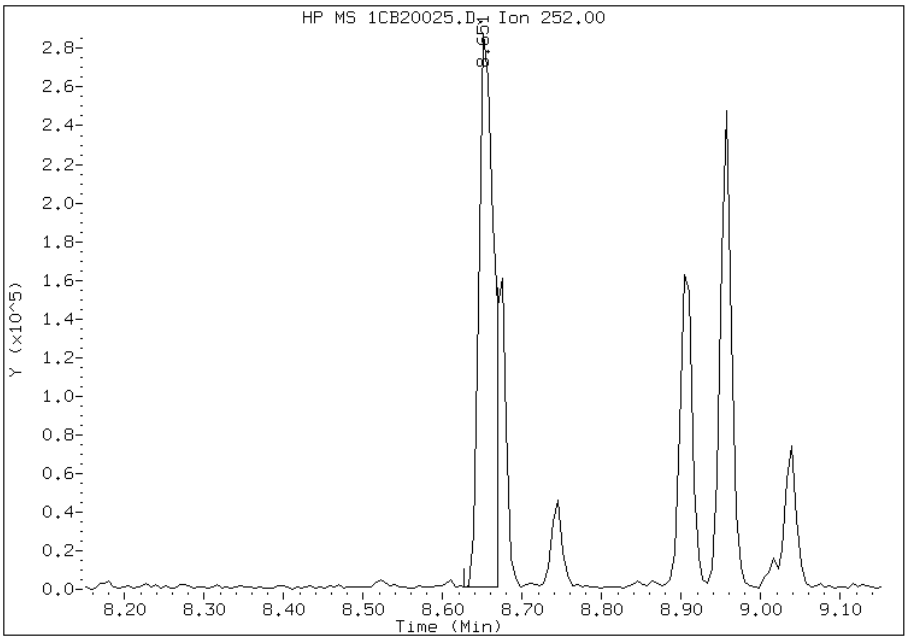
Manual Integration Results

RT: 8.65

Response: 374223

Amount: 5

Conc: 620



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20025.D
Inj. Date and Time: 20-FEB-2013 21:02
Instrument ID: BSMC5973.i
Client ID: CV0971K-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

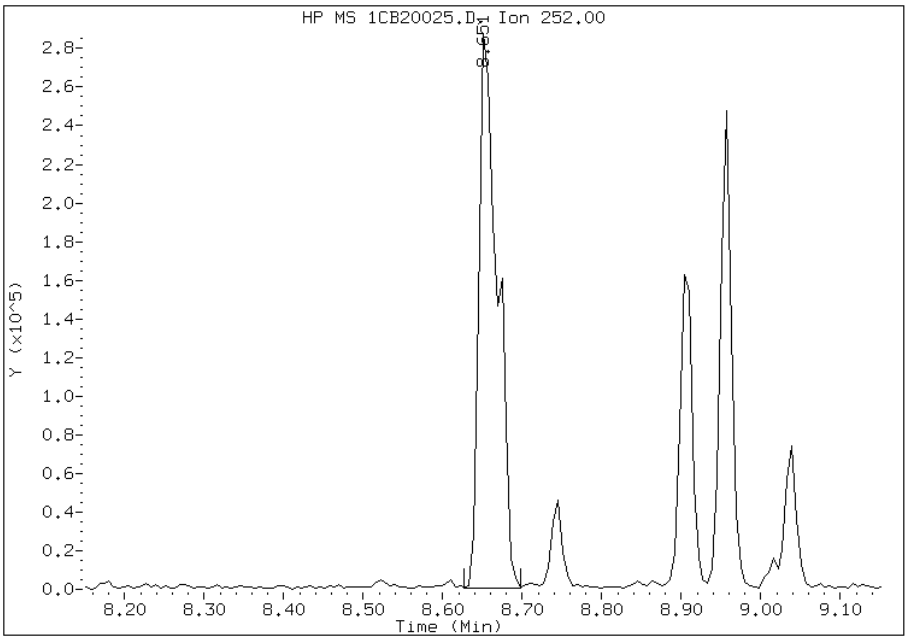
Processing Integration Results

RT: 8.65

Response: 468786

Amount: 6

Conc: 705



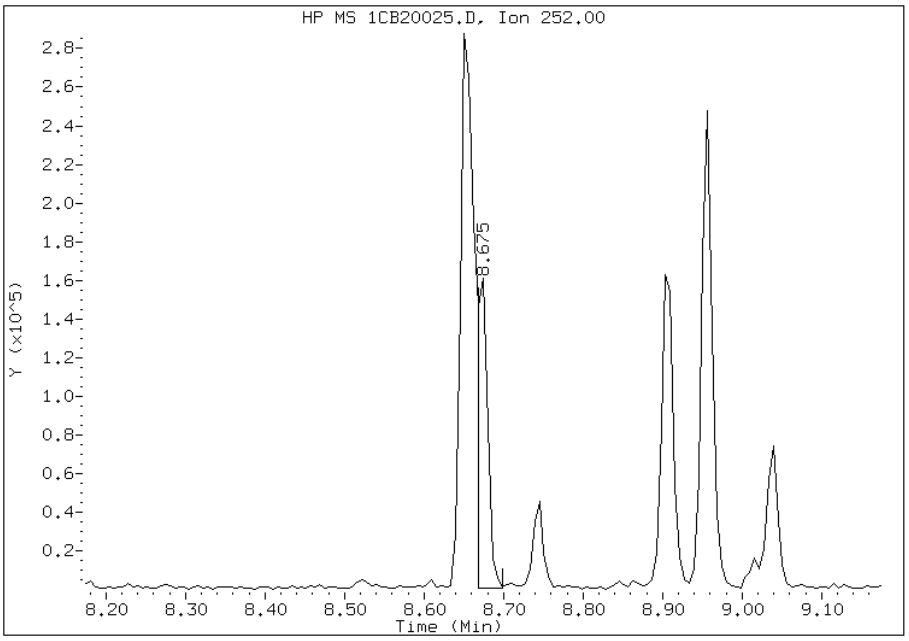
Manual Integration Results

RT: 8.67

Response: 144710

Amount: 2

Conc: 217



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20025.D
Inj. Date and Time: 20-FEB-2013 21:02
Instrument ID: BSMC5973.i
Client ID: CV0971K-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

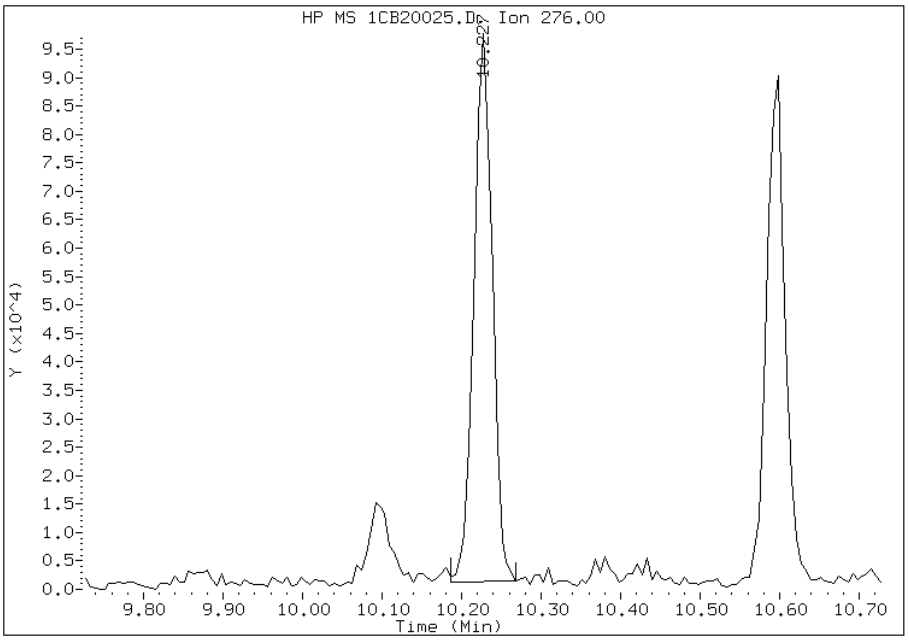
Processing Integration Results

RT: 10.23

Response: 152669

Amount: 2

Conc: 277



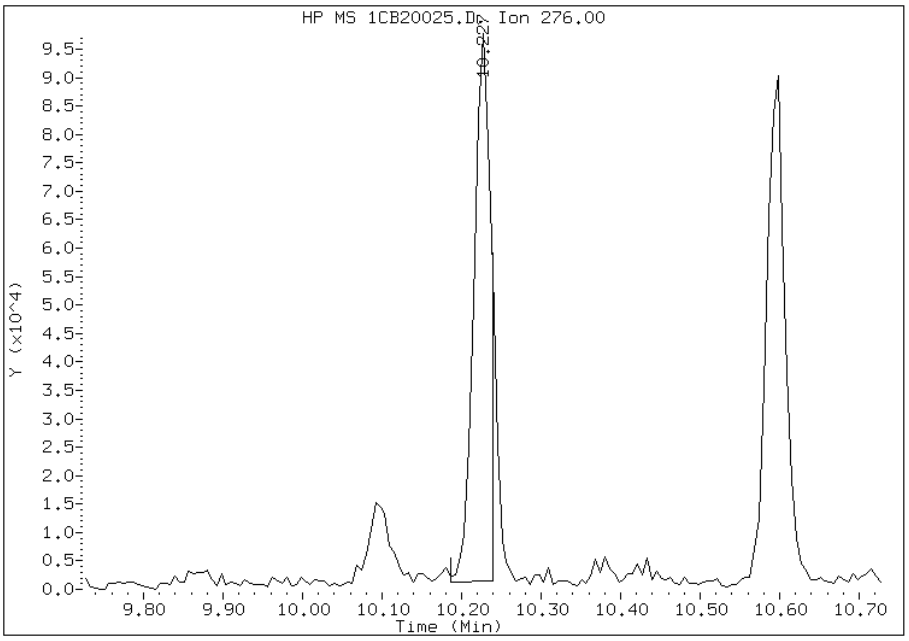
Manual Integration Results

RT: 10.23

Response: 139958

Amount: 2

Conc: 254



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971L-CS | Lab Sample ID: 680-87447-13

Matrix: Solid | Lab File ID: 1CB20026.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 09:44

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 14.96(g) | Date Analyzed: 02/20/2013 21:20

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

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

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

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	31
208-96-8	Acenaphthylene	10	J	63	7.8
120-12-7	Anthracene	28		13	6.6
56-55-3	Benzo[a]anthracene	240		13	6.1
50-32-8	Benzo[a]pyrene	250		16	8.2
205-99-2	Benzo[b]fluoranthene	370		19	9.6
191-24-2	Benzo[g,h,i]perylene	160		31	6.9
207-08-9	Benzo[k]fluoranthene	120		13	5.6
218-01-9	Chrysene	220		14	7.1
53-70-3	Dibenz(a,h)anthracene	45		31	6.4
206-44-0	Fluoranthene	400		31	6.3
86-73-7	Fluorene	12	J	31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	140		31	11
90-12-0	1-Methylnaphthalene	19	J	63	6.9
91-57-6	2-Methylnaphthalene	24	J	63	11
91-20-3	Naphthalene	26	J	63	6.9
85-01-8	Phenanthrene	120		13	6.1
129-00-0	Pyrene	370		31	5.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20026.D
Lab Smp Id: 680-87447-A-13-A Client Smp ID: CV0971L-CS
Inj Date : 20-FEB-2013 21:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-13-a
Misc Info : 680-87447-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	14.960	Weight Extracted
M	36.028	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2240121	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1743929	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3134782	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	348584	7.58918	793.0015
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3393661	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3160897	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	14707	0.24776	25.8885(Q)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	8725	0.22605	23.6203
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	6446	0.18363	19.1873
5 Acenaphthylene	152	4.810	4.810	(0.982)	6647	0.09580	10.0107
9 Fluorene	166	5.239	5.239	(1.070)	6509	0.11653	12.1761
11 Phenanthrene	178	5.868	5.869	(1.003)	103379	1.10482	115.4435
12 Anthracene	178	5.898	5.904	(1.008)	22858	0.27114	28.3312
13 Carbazole	167	6.009	6.010	(1.027)	16415	0.22416	23.4227

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.710	(1.146)	349878	3.82665	399.8506
16 Pyrene	202	6.874	6.880	(0.882)	323756	3.58345	374.4387
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	218843	2.33844	244.3465
19 Chrysene	228	7.815	7.827	(1.002)	207242	2.14385	224.0130
20 Benzo(b)fluoranthene	252	8.650	8.662	(0.960)	275154	3.55061	371.0069(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	100724	1.17980	123.2787(QM)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	173292	2.35002	245.5559
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	91781	1.29586	135.4056(M)
25 Dibenzo(a,h)anthracene	278	10.239	10.262	(1.136)	28930	0.43315	45.2598
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	107931	1.50018	156.7552(M)

QC Flag Legend

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

Data File: 1CB20026.D

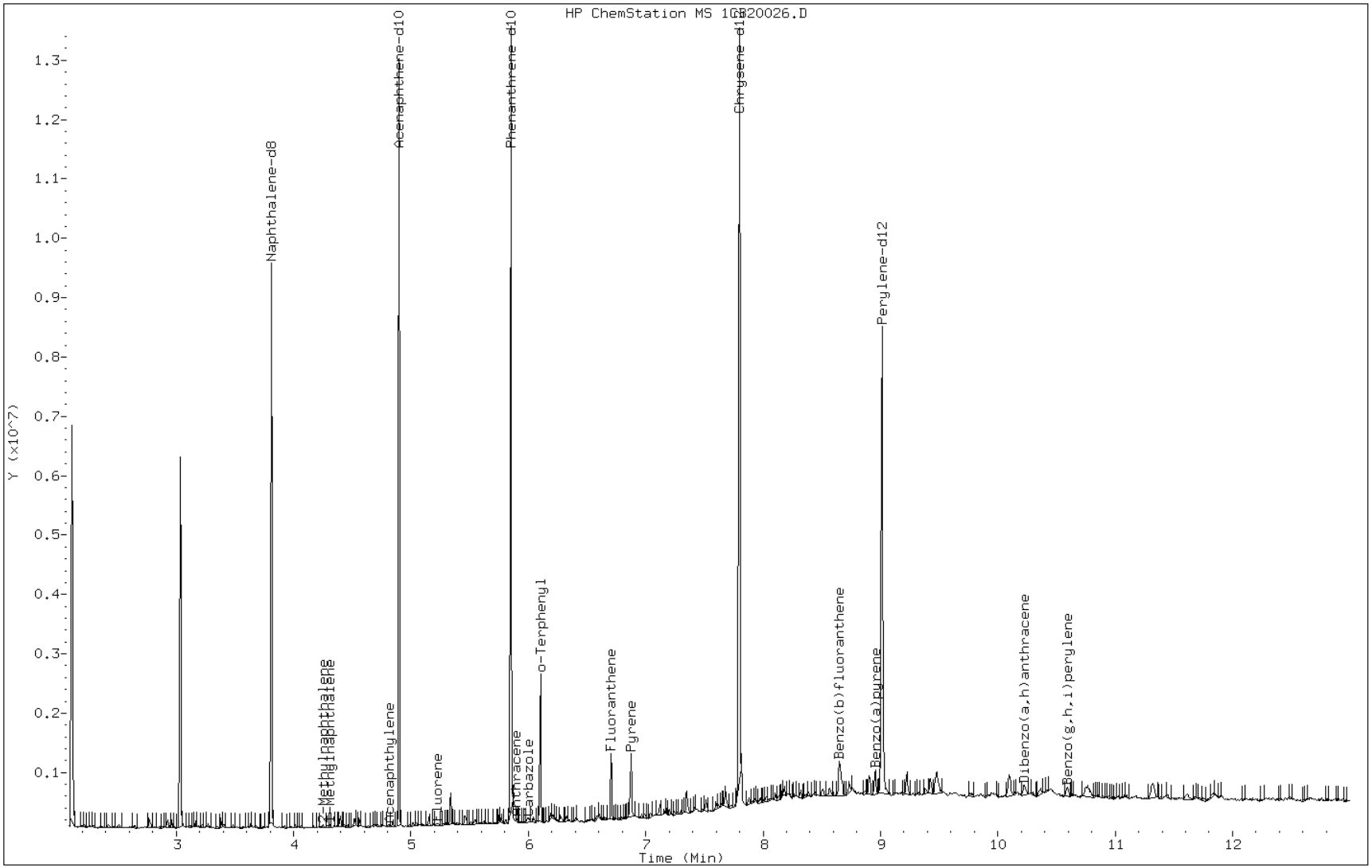
Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a

Operator: SCC



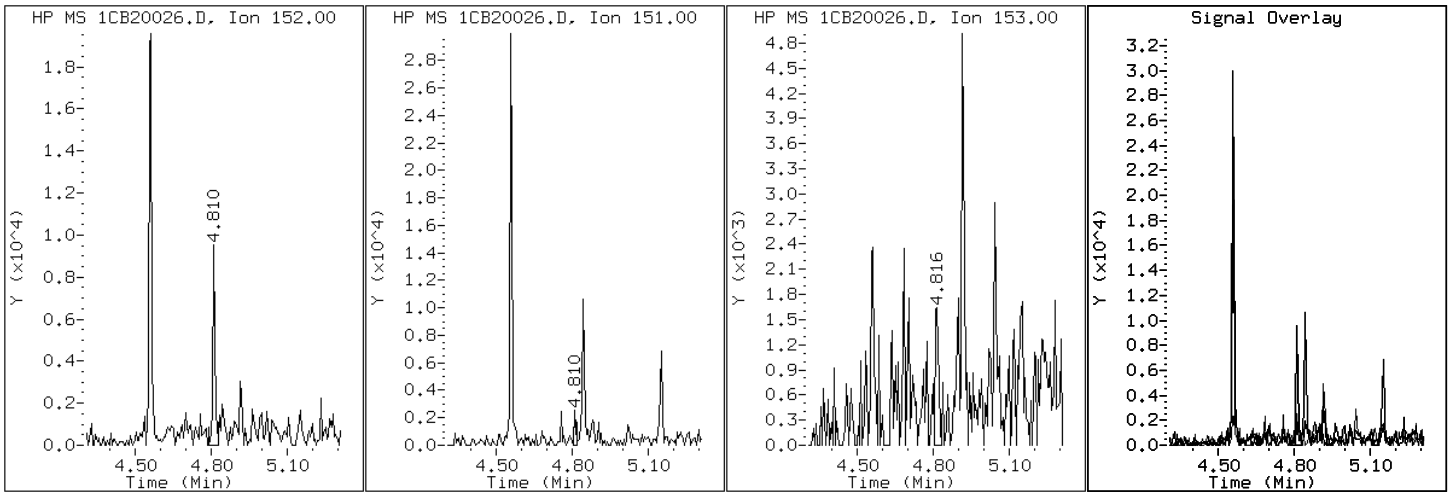
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

5 Acenaphthylene



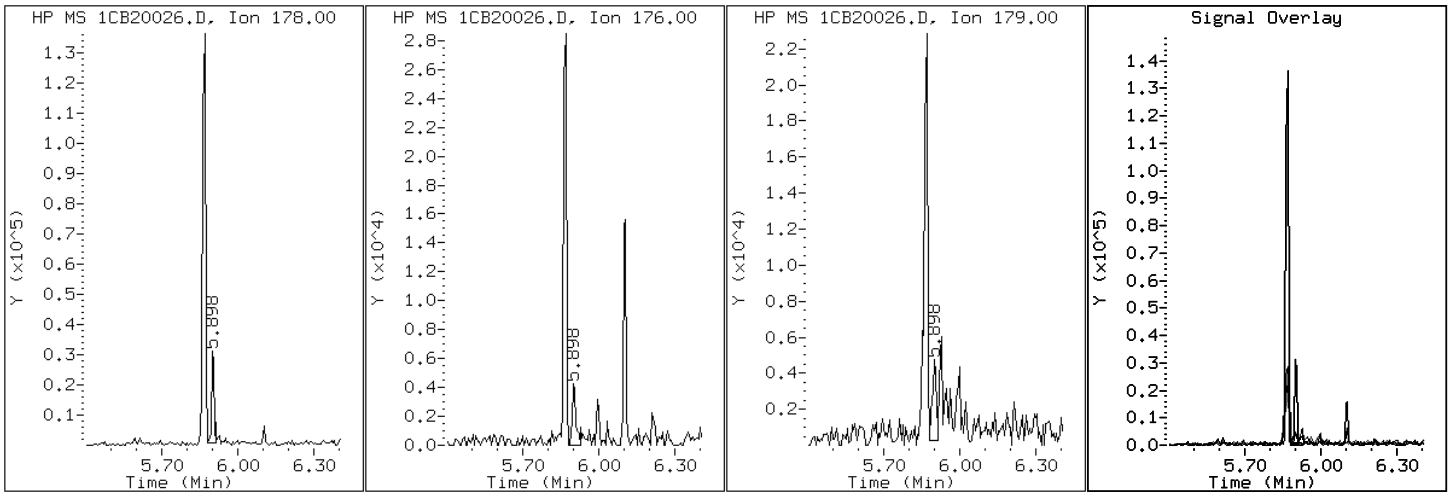
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

12 Anthracene



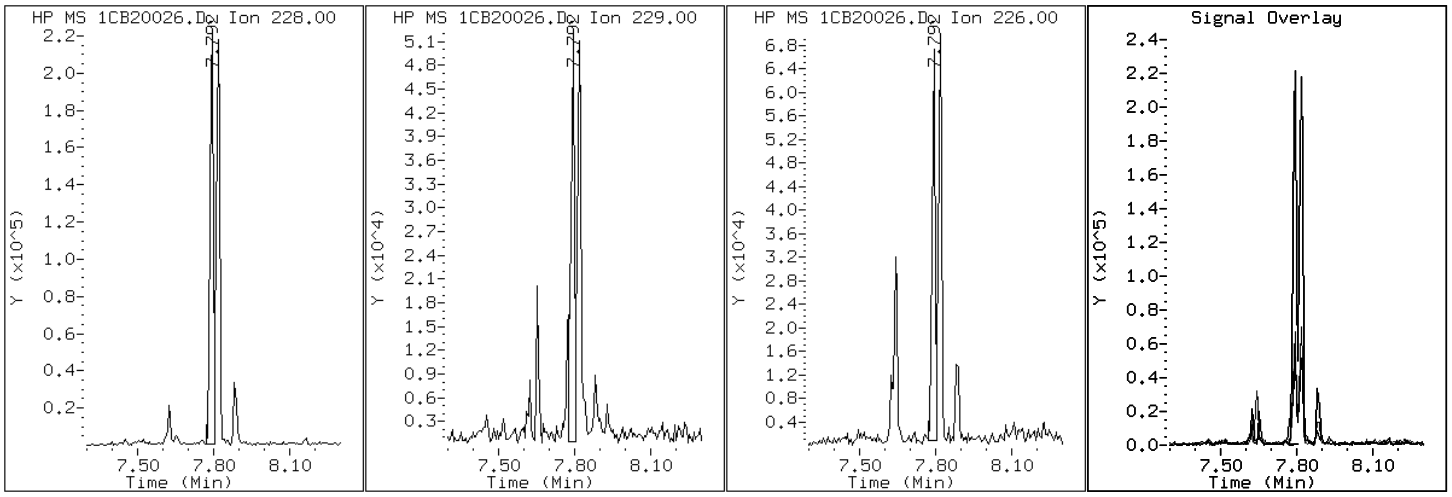
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

17 Benzo(a)anthracene



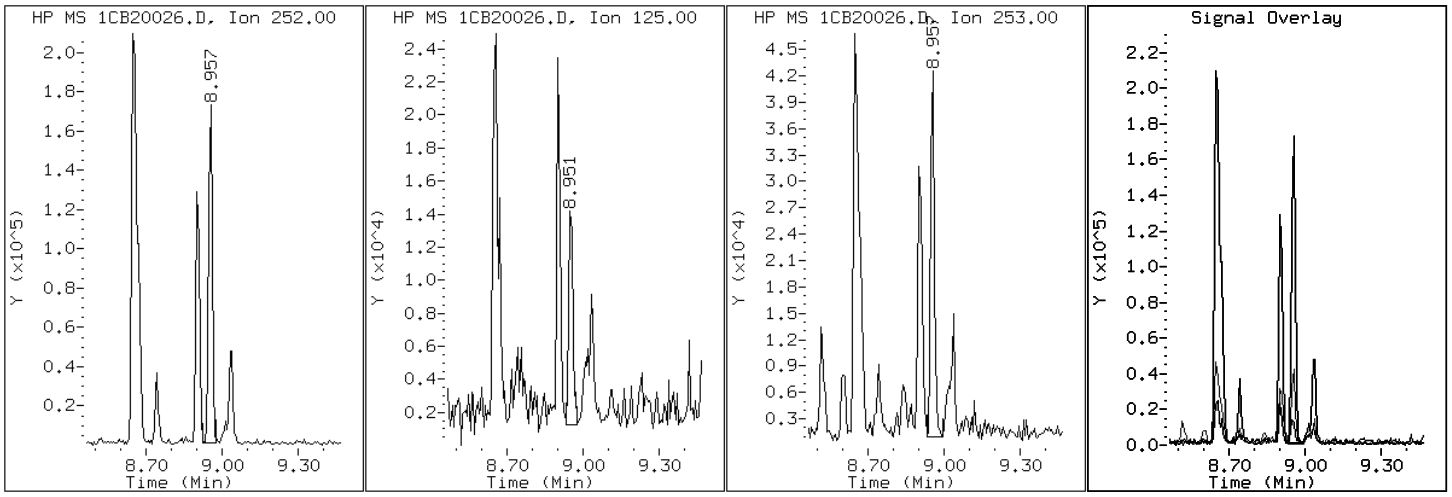
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

22 Benzo(a)pyrene



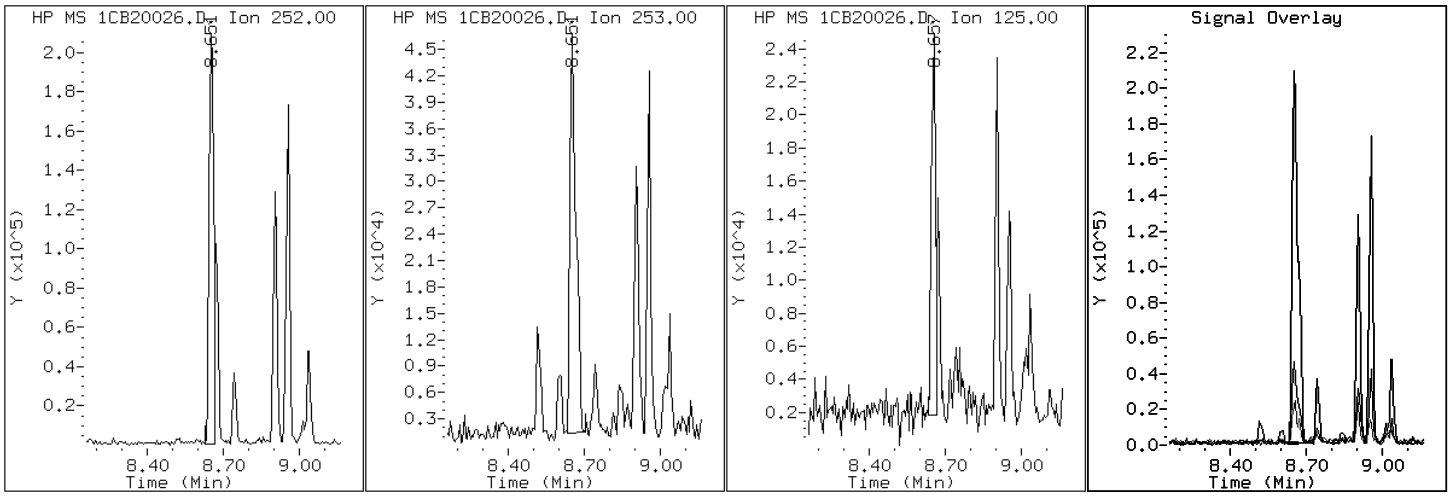
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

20 Benzo(b)fluoranthene



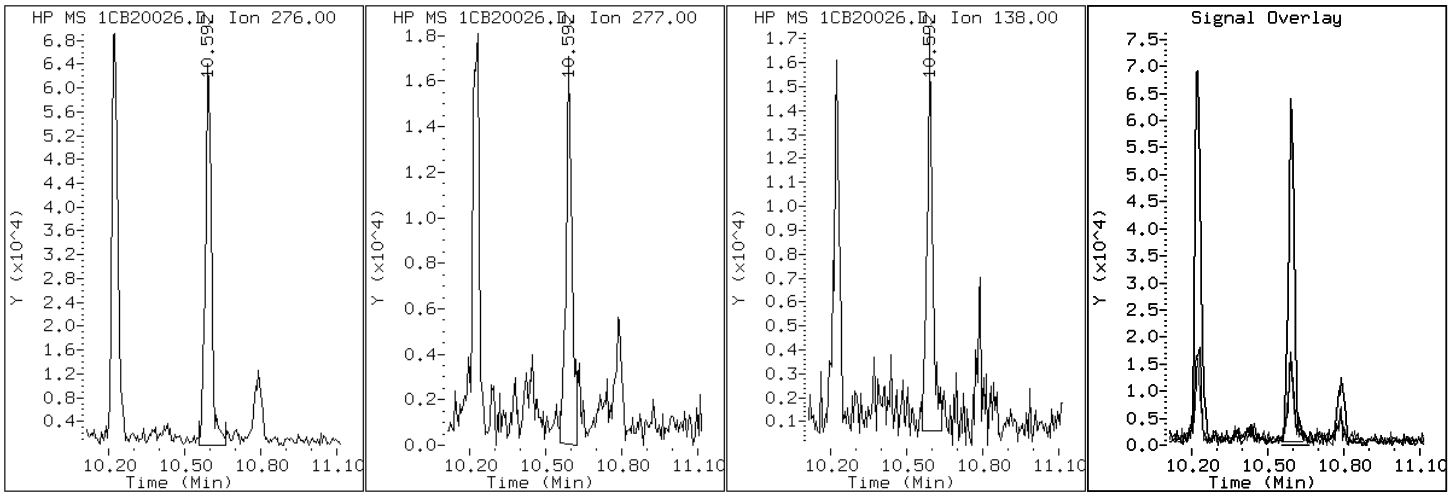
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

26 Benzo(g,h,i)perylene



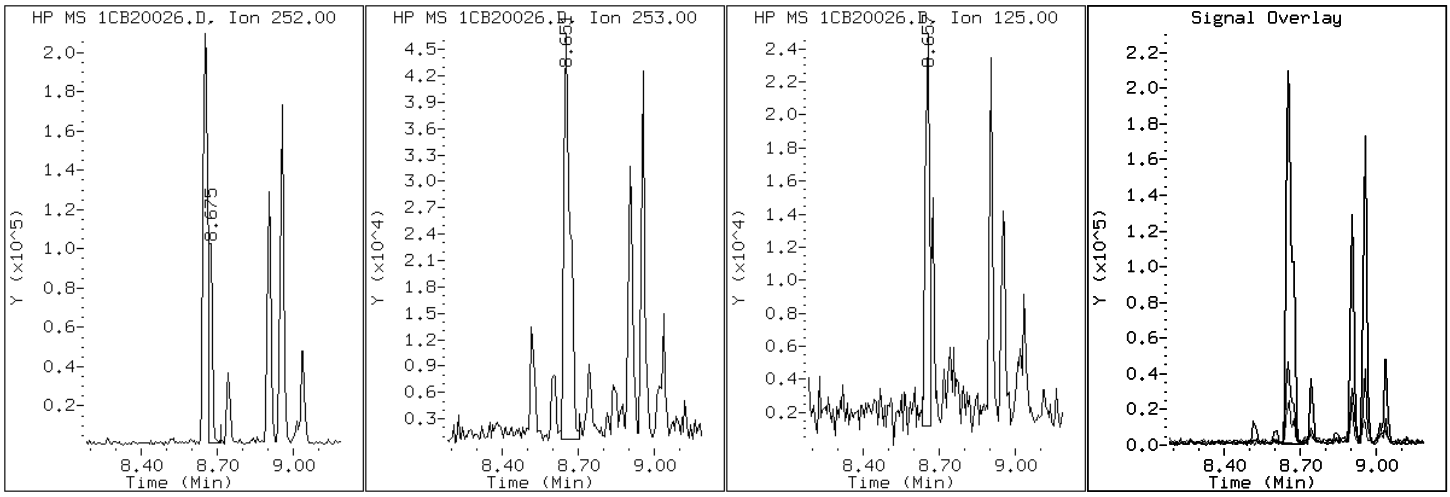
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

21 Benzo(k)fluoranthene



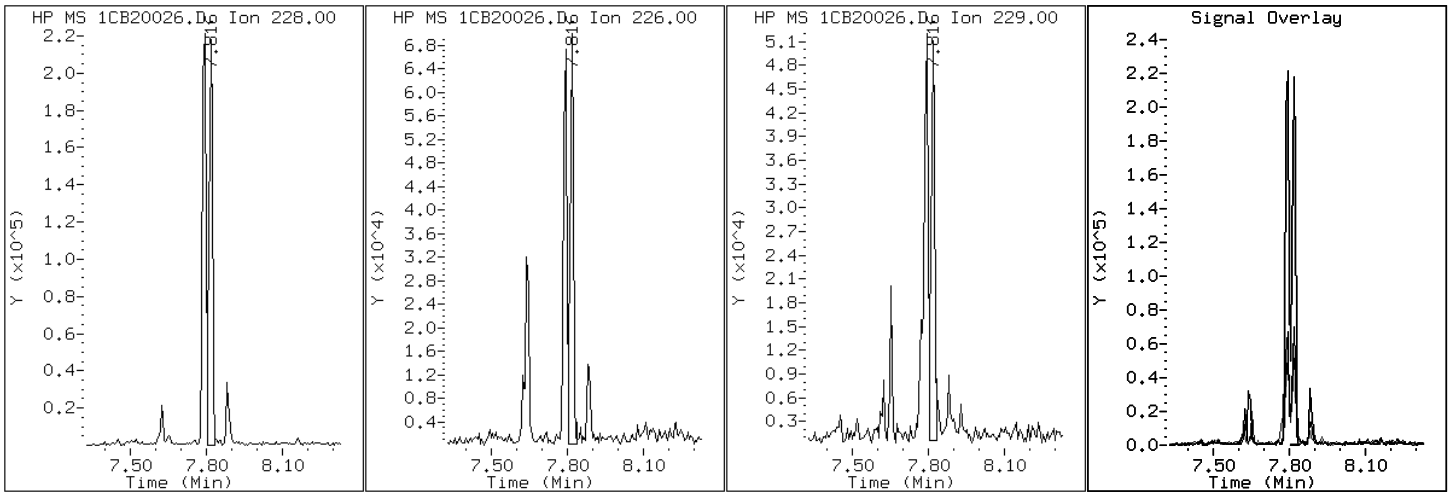
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

19 Chrysene



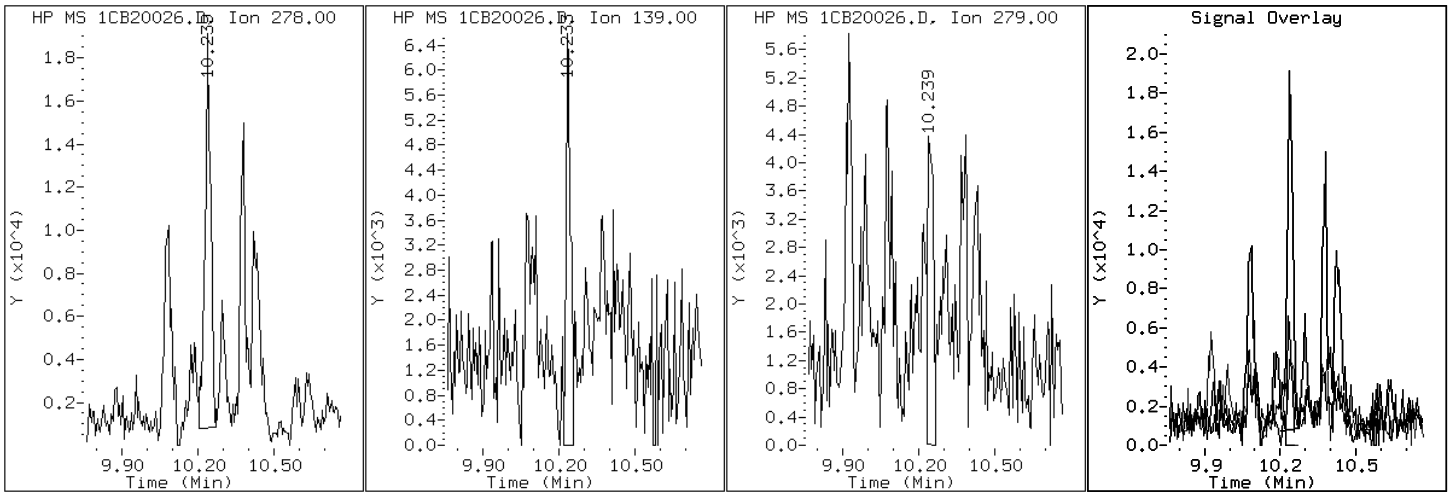
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

25 Dibenzo(a,h)anthracene



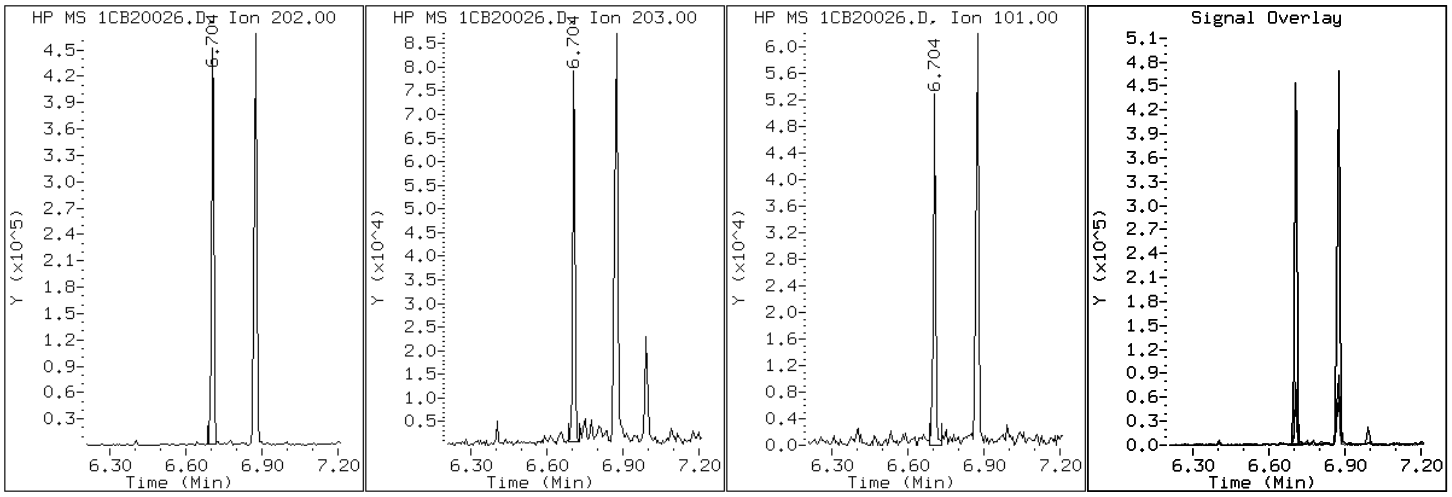
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

15 Fluoranthene



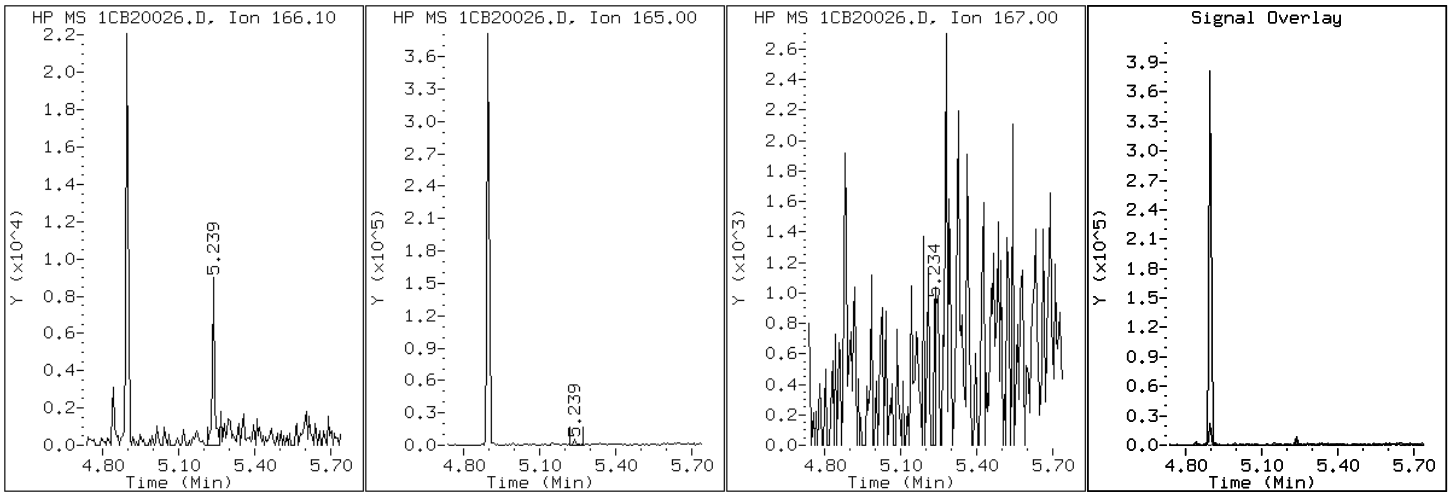
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

9 Fluorene



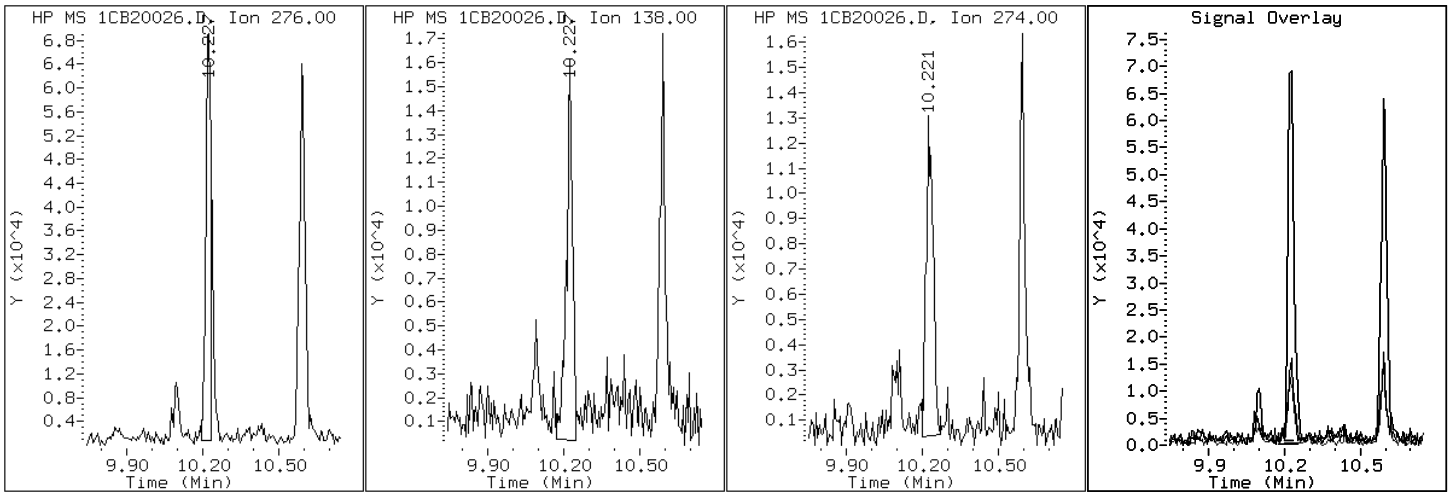
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

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



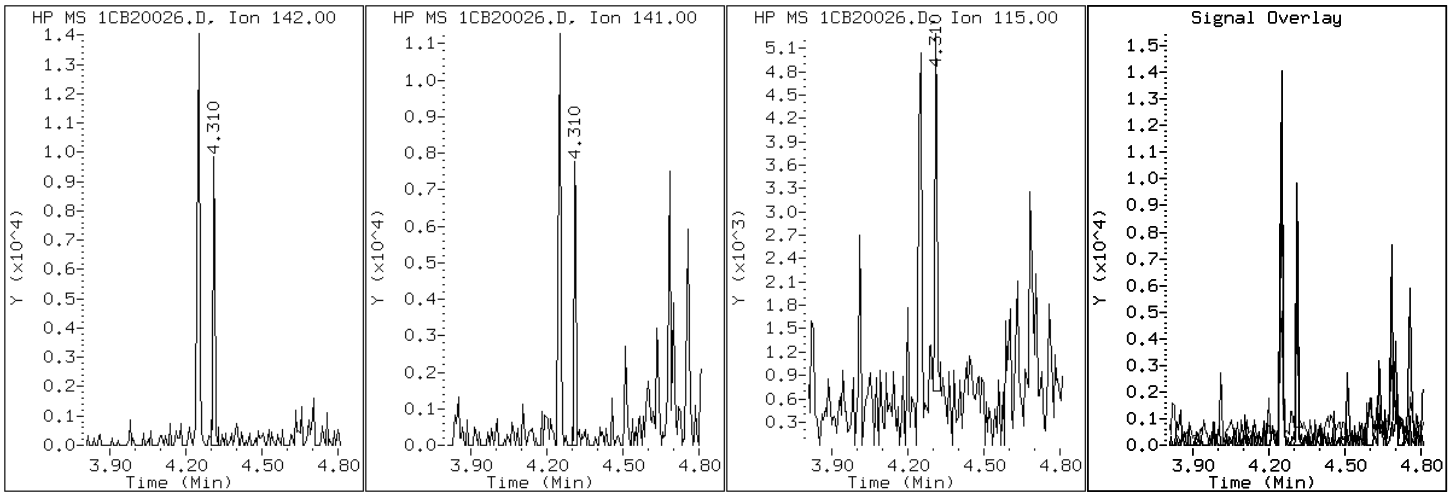
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

4 1-Methylnaphthalene



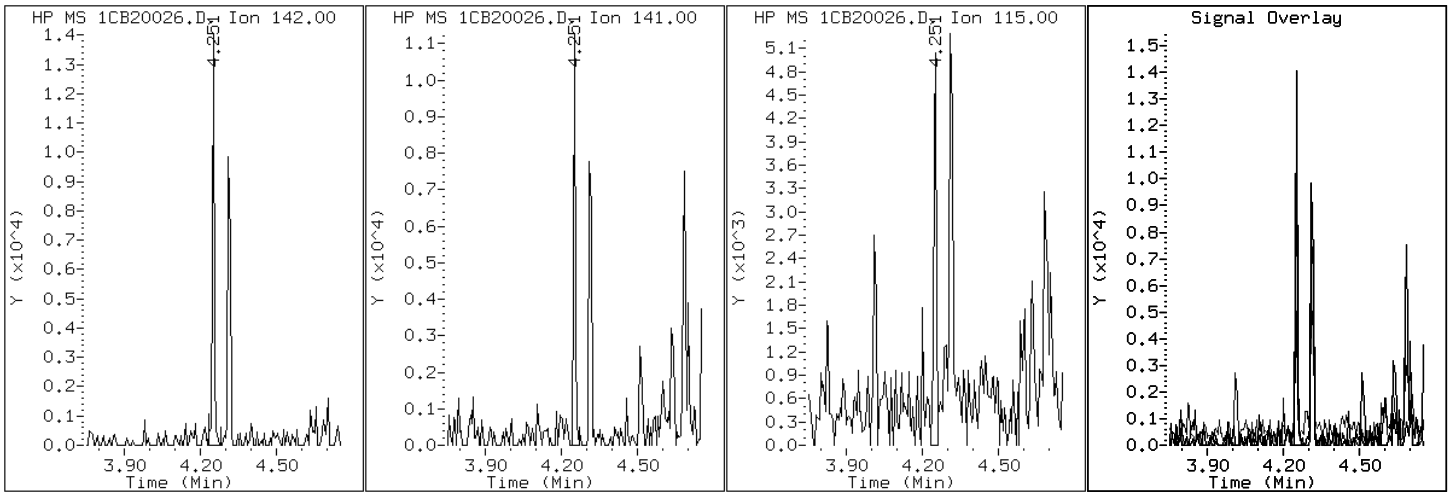
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

3 2-Methylnaphthalene



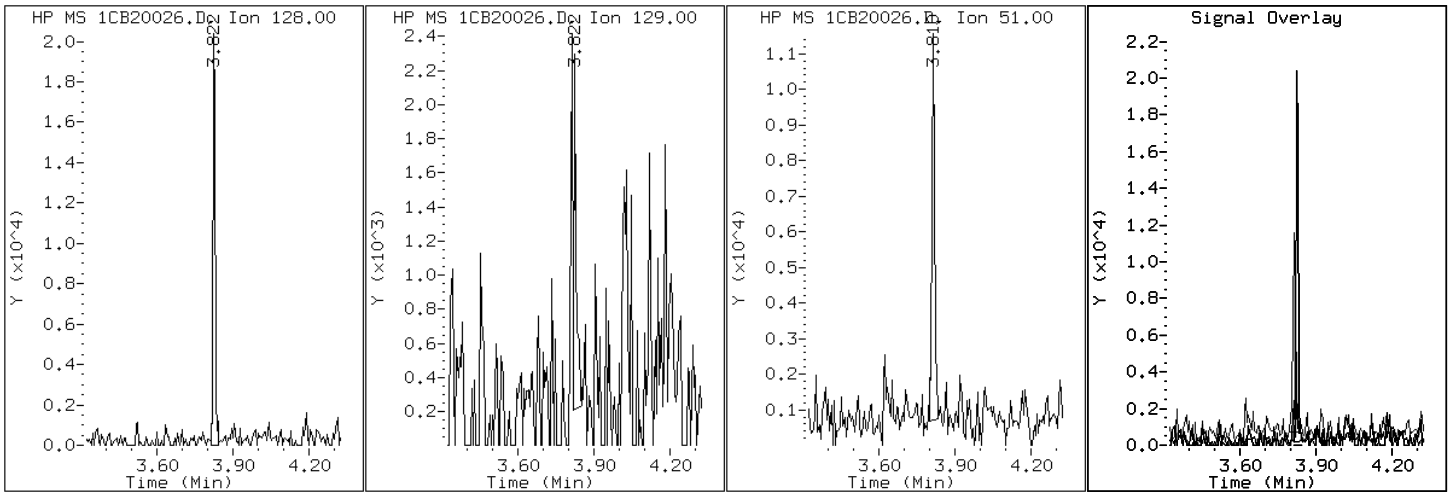
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

2 Naphthalene



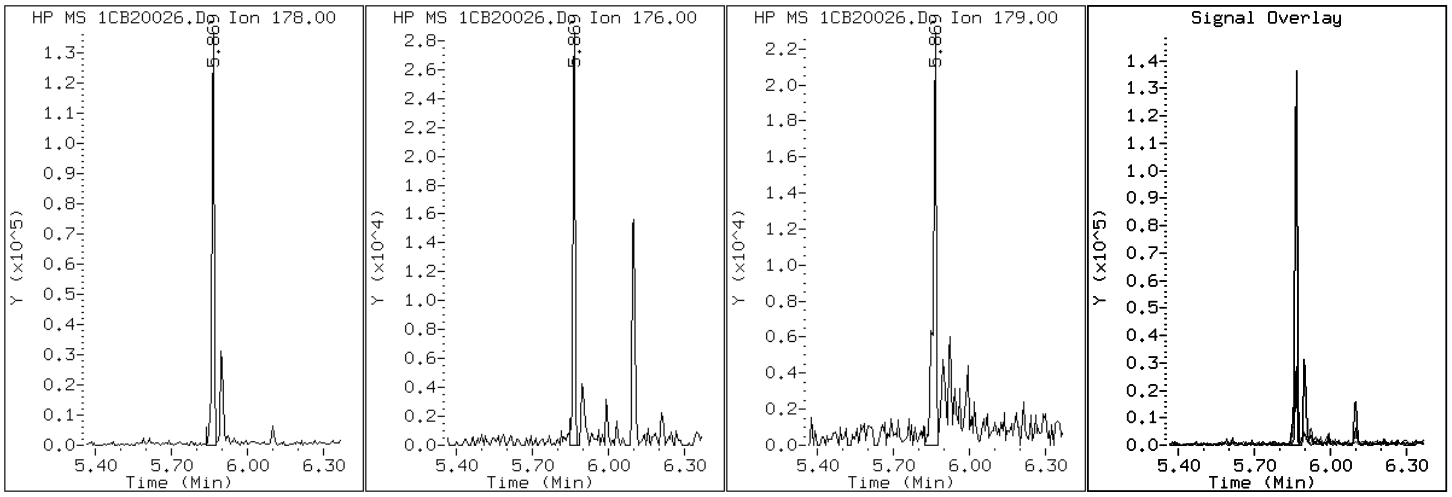
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

11 Phenanthrene



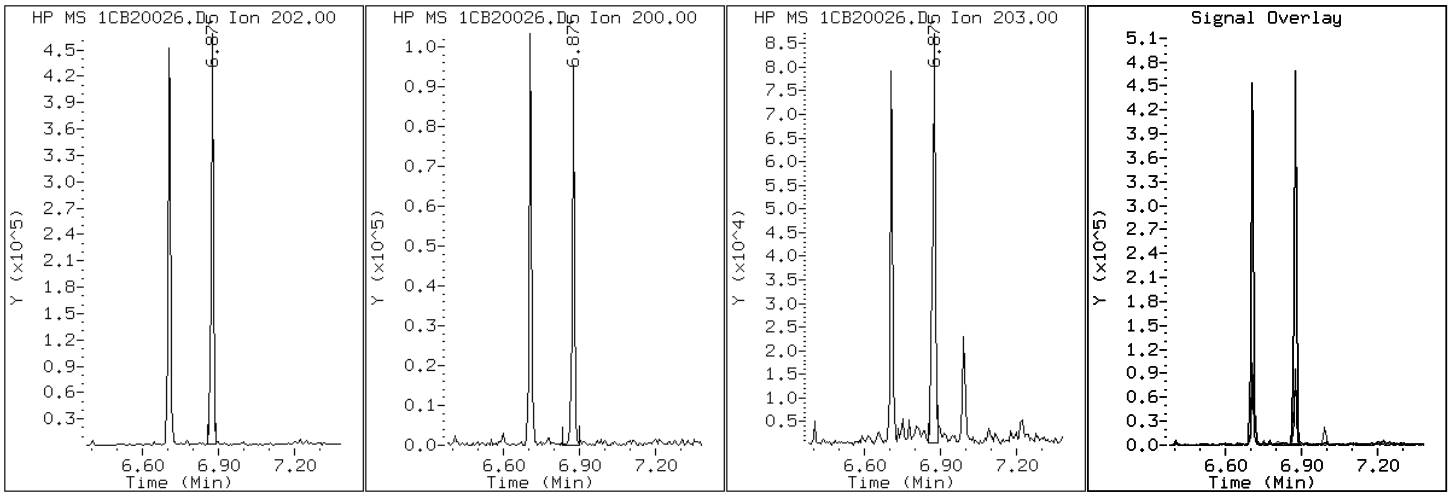
Data File: 1CB20026.D

Date: 20-FEB-2013 21:20

Client ID: CV0971L-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-13-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20026.D
Inj. Date and Time: 20-FEB-2013 21:20
Instrument ID: BSMC5973.i
Client ID: CV0971L-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

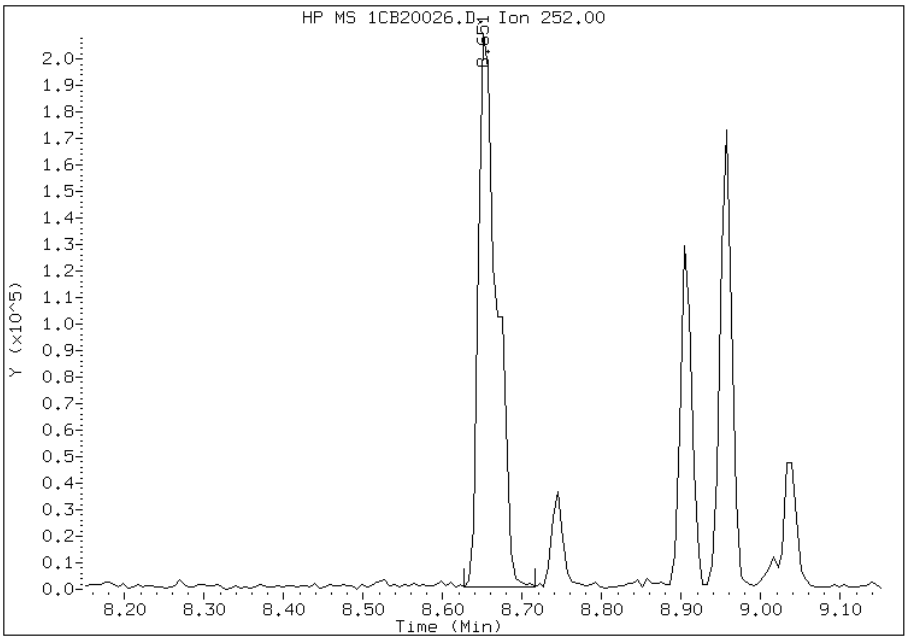
Processing Integration Results

RT: 8.65

Response: 340778

Amount: 4

Conc: 459



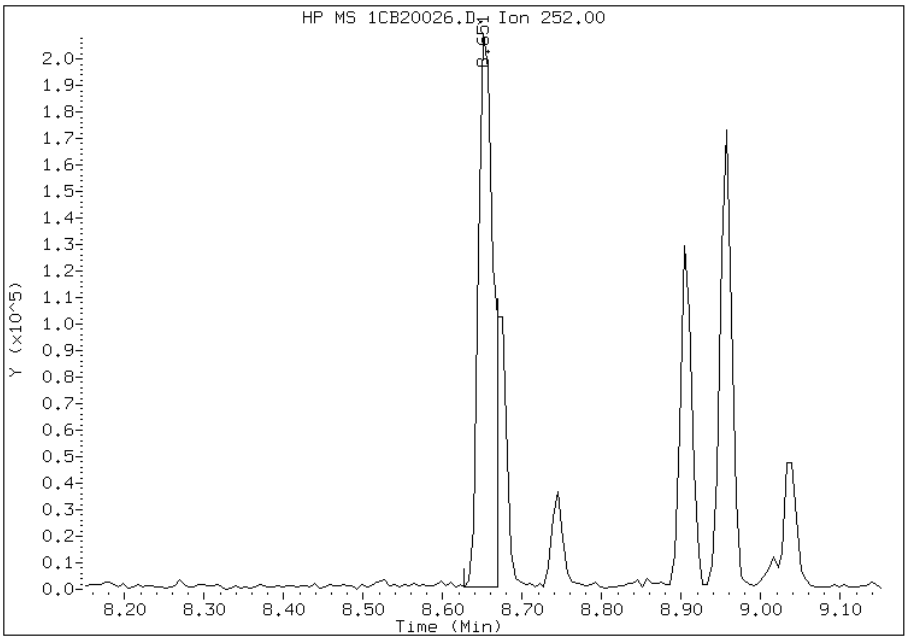
Manual Integration Results

RT: 8.65

Response: 275154

Amount: 4

Conc: 371



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20026.D
Inj. Date and Time: 20-FEB-2013 21:20
Instrument ID: BSMC5973.i
Client ID: CV0971L-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/21/2013

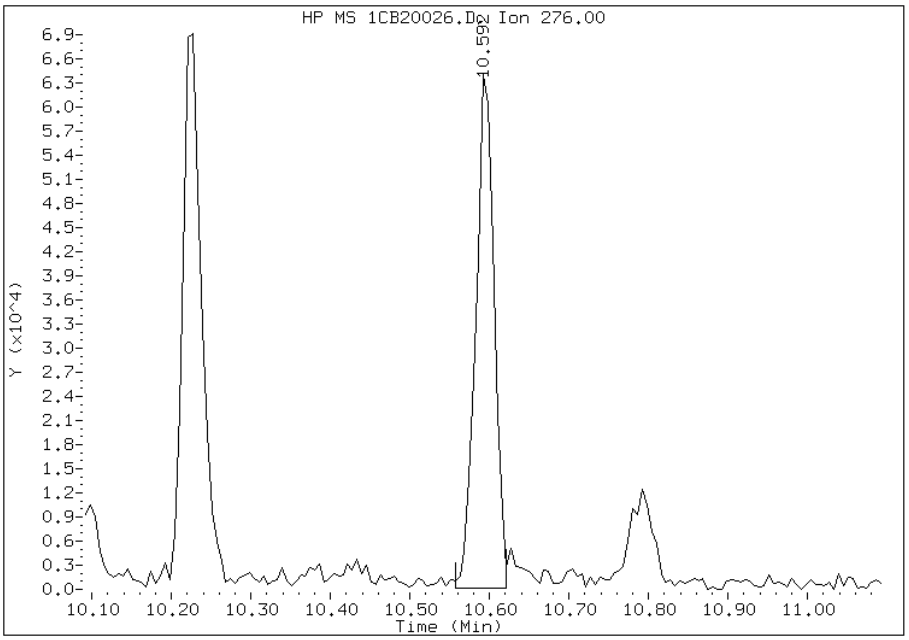
Processing Integration Results

RT: 10.59

Response: 101872

Amount: 1

Conc: 148



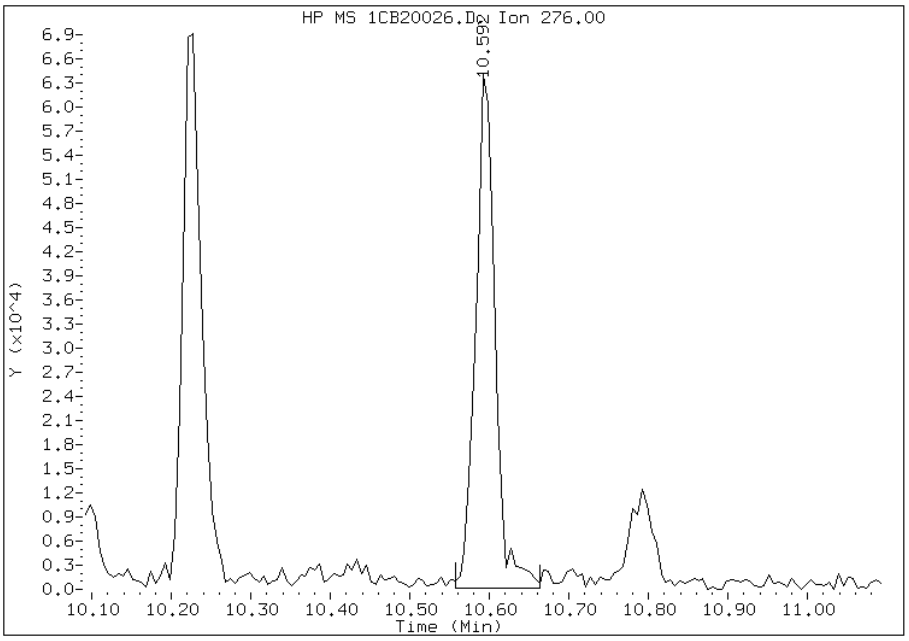
Manual Integration Results

RT: 10.59

Response: 107931

Amount: 2

Conc: 157



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20026.D
Inj. Date and Time: 20-FEB-2013 21:20
Instrument ID: BSMC5973.i
Client ID: CV0971L-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

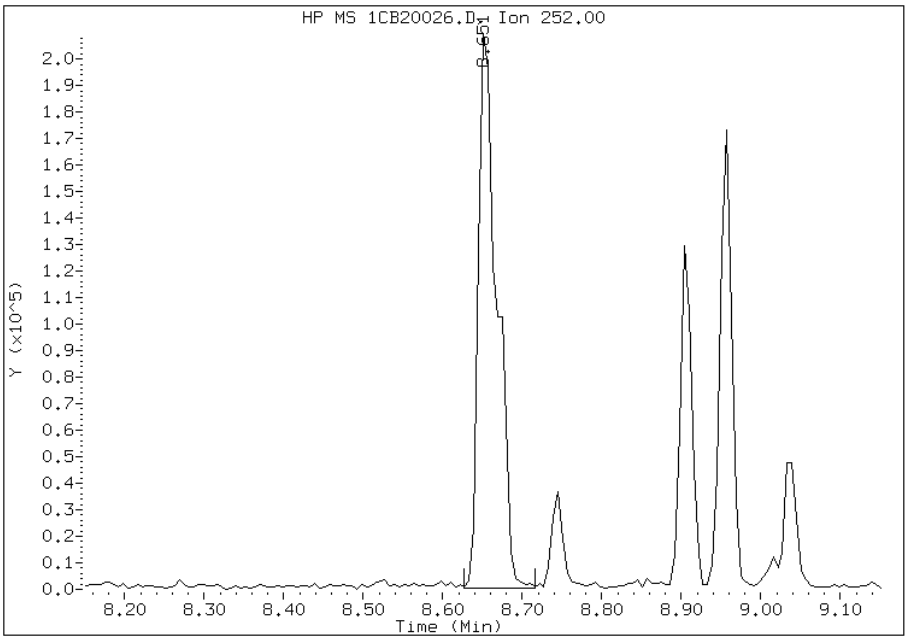
Processing Integration Results

RT: 8.65

Response: 342743

Amount: 4

Conc: 419



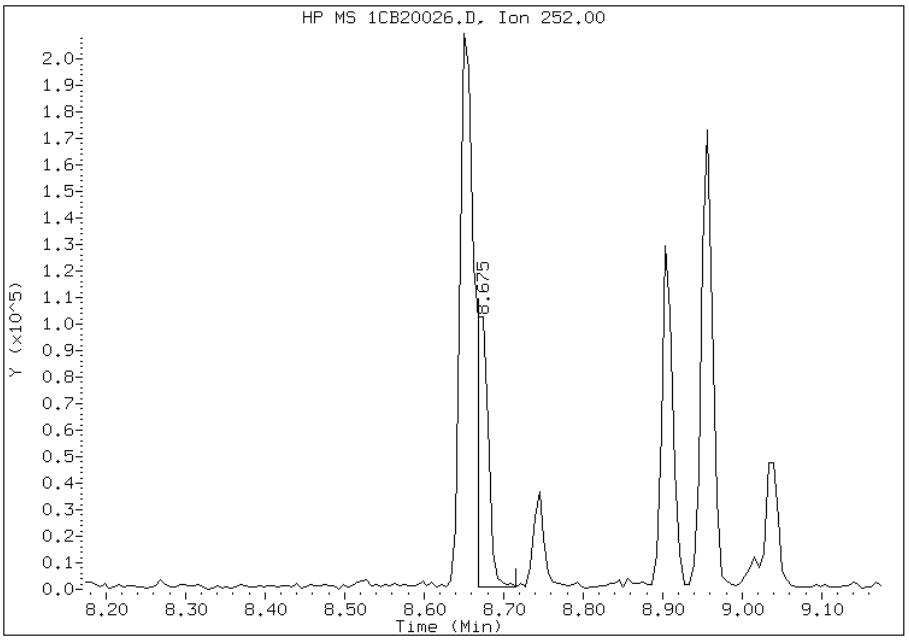
Manual Integration Results

RT: 8.67

Response: 100724

Amount: 1

Conc: 123



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20026.D
Inj. Date and Time: 20-FEB-2013 21:20
Instrument ID: BSMC5973.i
Client ID: CV0971L-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

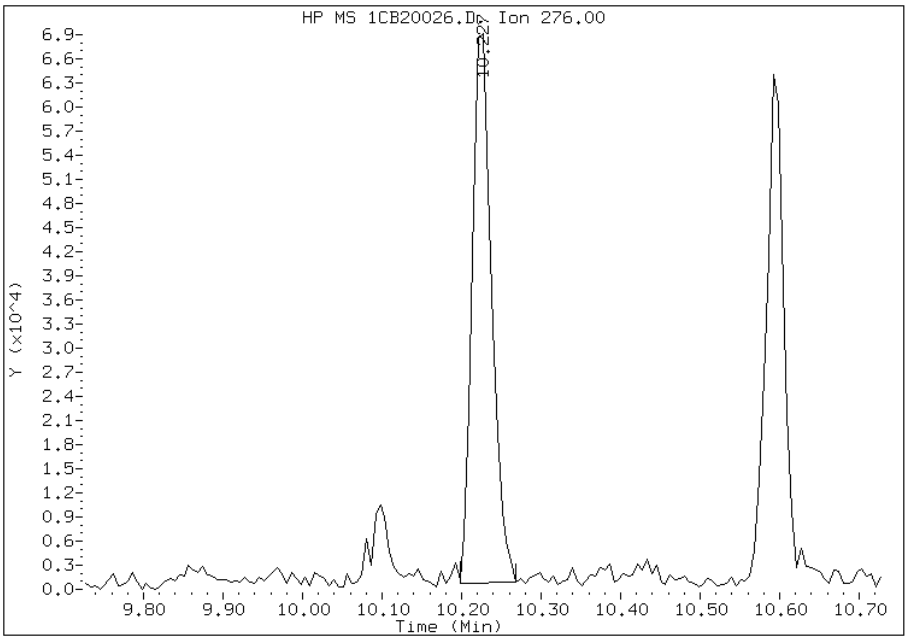
Processing Integration Results

RT: 10.23

Response: 115457

Amount: 2

Conc: 170



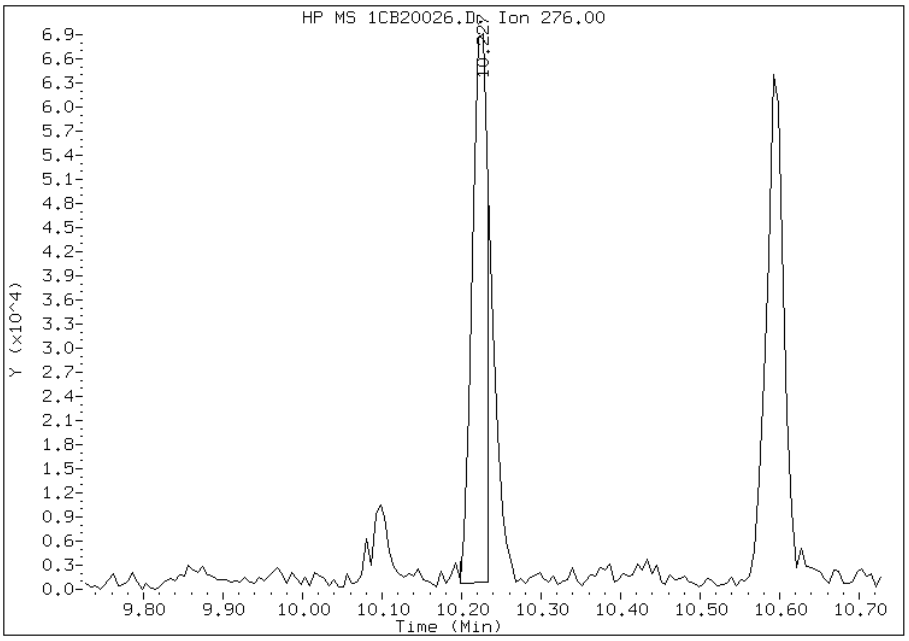
Manual Integration Results

RT: 10.23

Response: 91781

Amount: 1

Conc: 135



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971M-CS | Lab Sample ID: 680-87447-14

Matrix: Solid | Lab File ID: 1CB20027.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 09:51

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.26(g) | Date Analyzed: 02/20/2013 21:39

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

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

% Moisture: 32.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	69	J	150	29
208-96-8	Acenaphthylene	21	J	58	7.3
120-12-7	Anthracene	260		12	6.1
56-55-3	Benzo[a]anthracene	1100		12	5.7
50-32-8	Benzo[a]pyrene	990		15	7.6
205-99-2	Benzo[b]fluoranthene	1400		18	8.9
191-24-2	Benzo[g,h,i]perylene	600		29	6.4
207-08-9	Benzo[k]fluoranthene	550		12	5.2
218-01-9	Chrysene	940		13	6.5
53-70-3	Dibenz(a,h)anthracene	160		29	6.0
206-44-0	Fluoranthene	2200		29	5.8
86-73-7	Fluorene	61		29	6.0
193-39-5	Indeno[1,2,3-cd]pyrene	560		29	10
90-12-0	1-Methylnaphthalene	81		58	6.4
91-57-6	2-Methylnaphthalene	94		58	10
91-20-3	Naphthalene	98		58	6.4
85-01-8	Phenanthrene	950		12	5.7
129-00-0	Pyrene	2000		29	5.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20027.D
Lab Smp Id: 680-87447-A-14-A Client Smp ID: CV0971M-CS
Inj Date : 20-FEB-2013 21:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-14-a
Misc Info : 680-87447-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	Weight Extracted
M	32.442	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2167045	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1692486	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3046197	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	332383	7.44690	722.3448
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3253346	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3040235	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	57766	1.00596	97.5773
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	36146	0.96807	93.9017
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	28385	0.83587	81.0786
5 Acenaphthylene	152	4.810	4.810	(0.982)	14534	0.21585	20.9371
7 Acenaphthene	154	4.916	4.922	(1.004)	29940	0.70896	68.7683
9 Fluorene	166	5.239	5.239	(1.070)	33831	0.62407	60.5345
11 Phenanthrene	178	5.868	5.869	(1.003)	893759	9.82942	953.4481
12 Anthracene	178	5.898	5.904	(1.008)	223465	2.72777	264.5918

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.010	(1.027)	126101	1.77209	171.8918
15 Fluoranthene	202	6.710	6.710	(1.147)	2032367	22.8746	2218.8221
16 Pyrene	202	6.874	6.880	(0.882)	1763867	20.3652	1975.4081
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	973395	10.8498	1052.4238
19 Chrysene	228	7.815	7.827	(1.002)	894572	9.65317	936.3515
20 Benzo(b)fluoranthene	252	8.657	8.662	(0.960)	1090832	14.6348	1419.5710(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	467465	5.69283	552.2012(QM)
22 Benzo(a)pyrene	252	8.957	8.968	(0.993)	725313	10.2264	991.9513
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	396453	5.81969	564.5064(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	109148	1.69904	164.8060
26 Benzo(g,h,i)perylene	276	10.598	10.615	(1.175)	431060	6.22927	604.2359

QC Flag Legend

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

Data File: 1CB20027.D

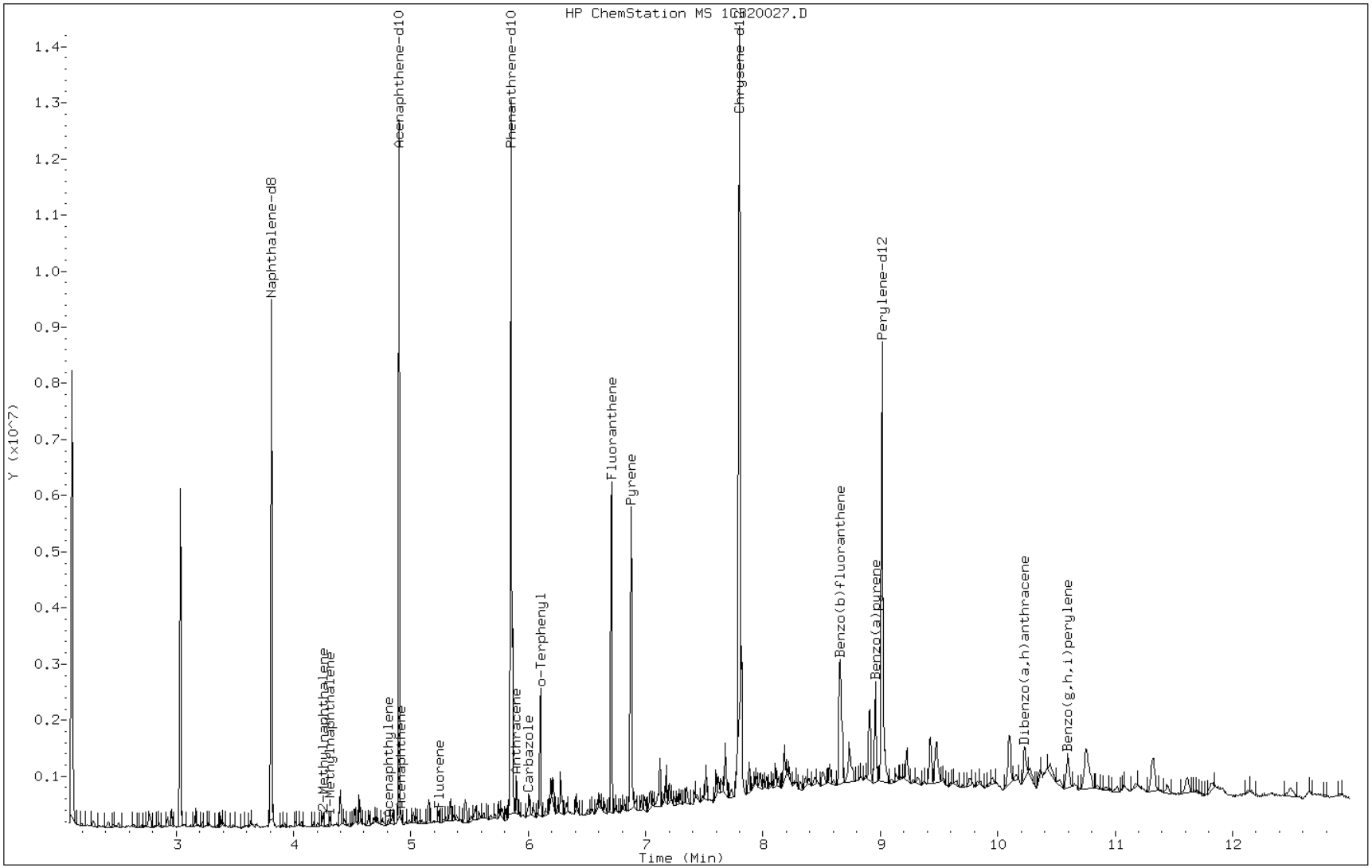
Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a

Operator: SCC



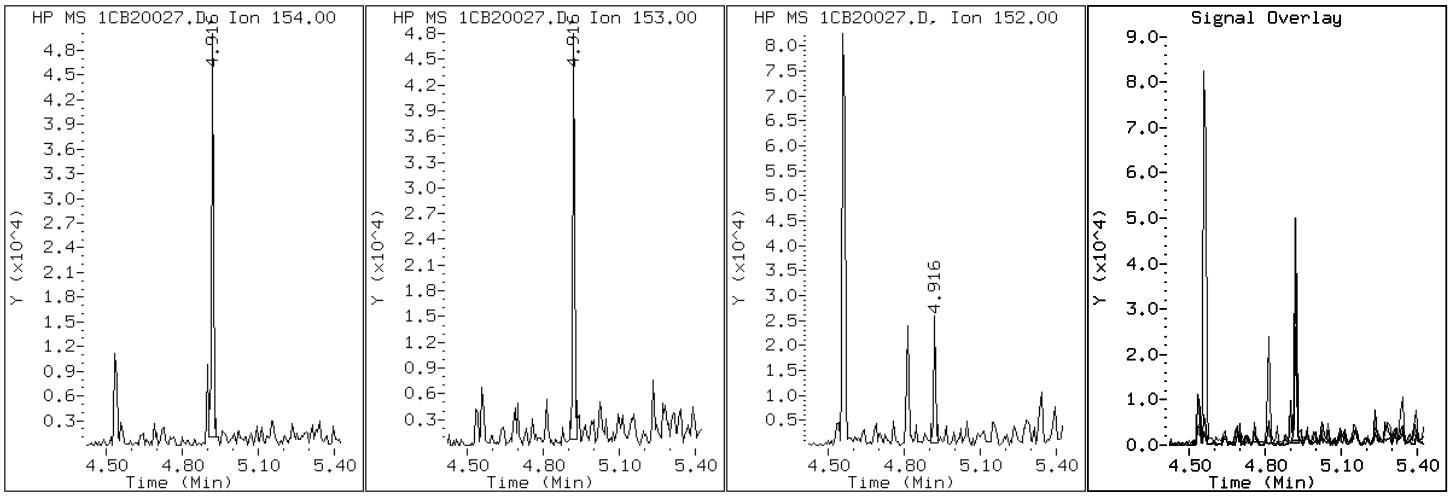
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

7 Acenaphthene



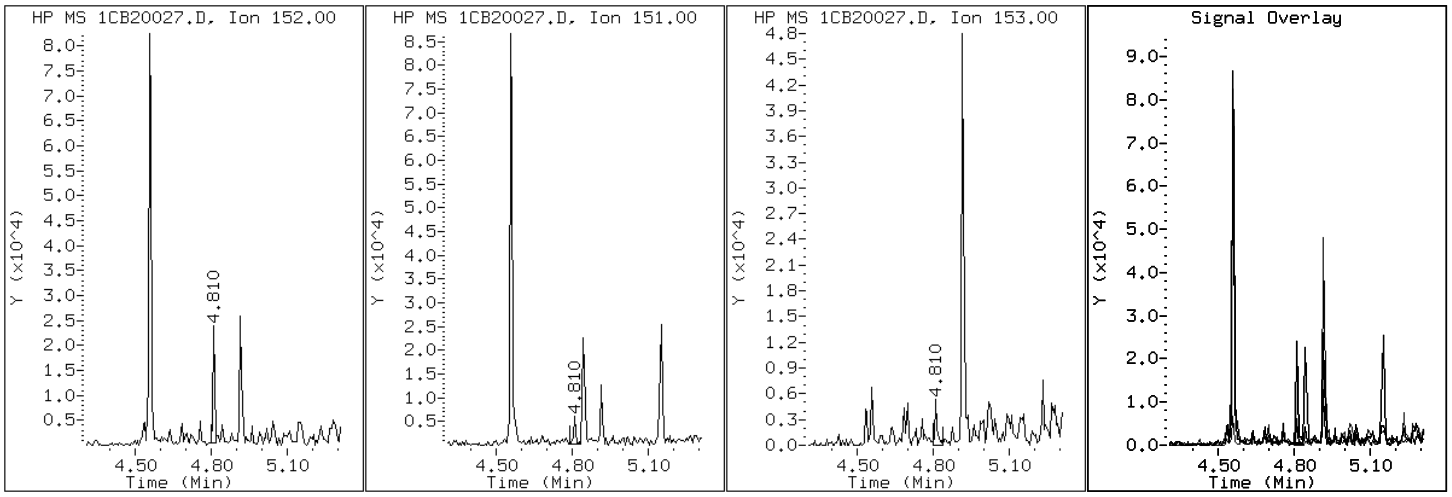
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

5 Acenaphthylene



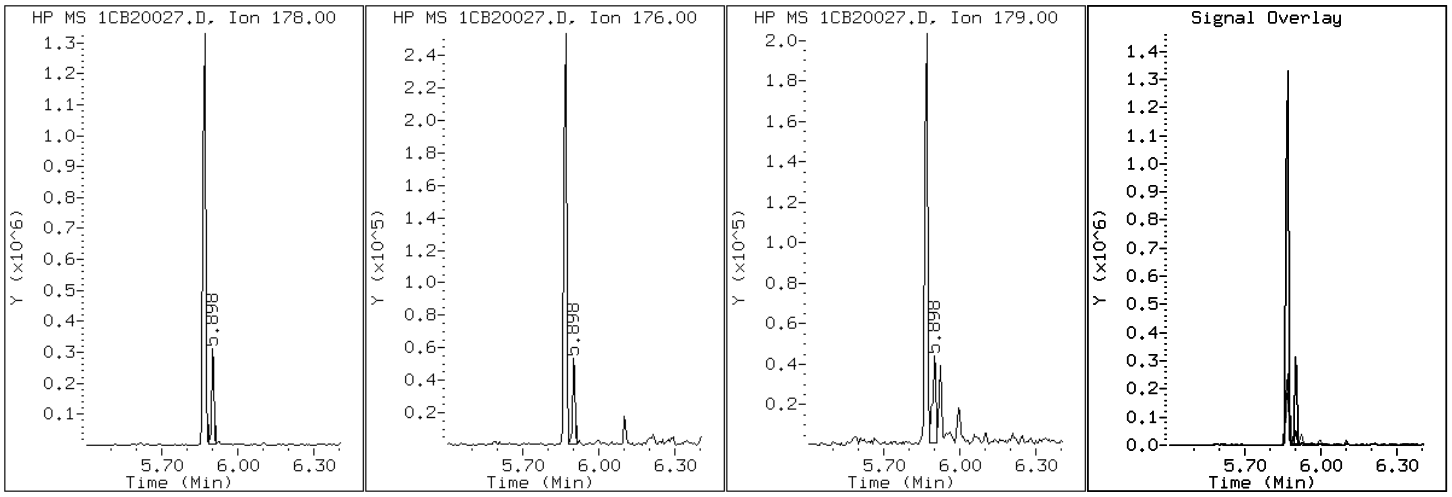
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

12 Anthracene



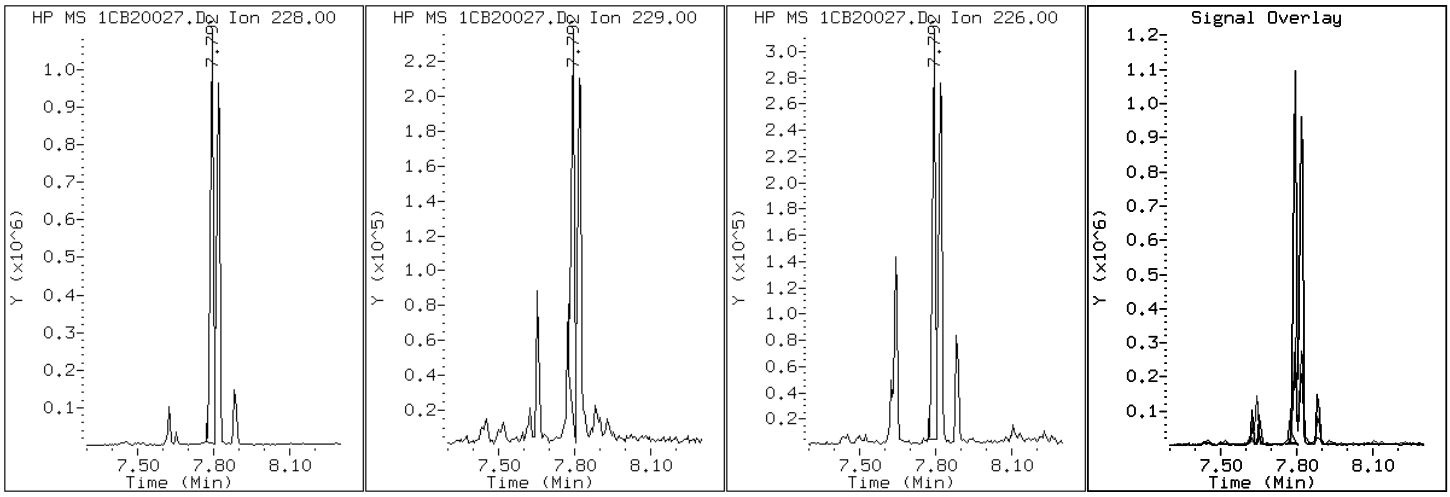
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

17 Benzo(a)anthracene



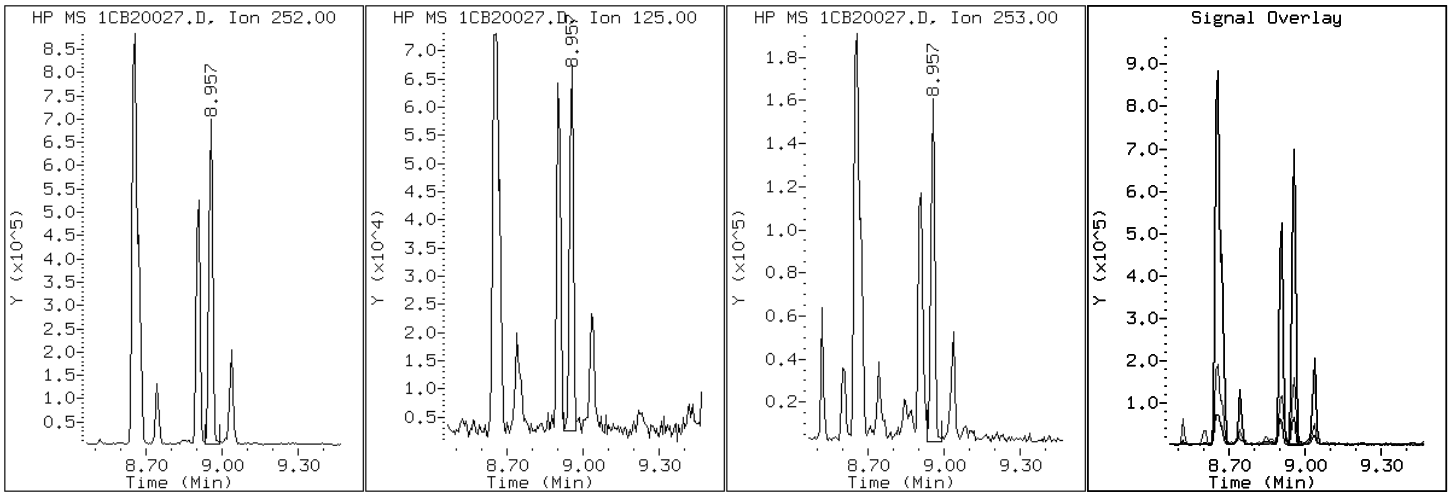
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

22 Benzo(a)pyrene



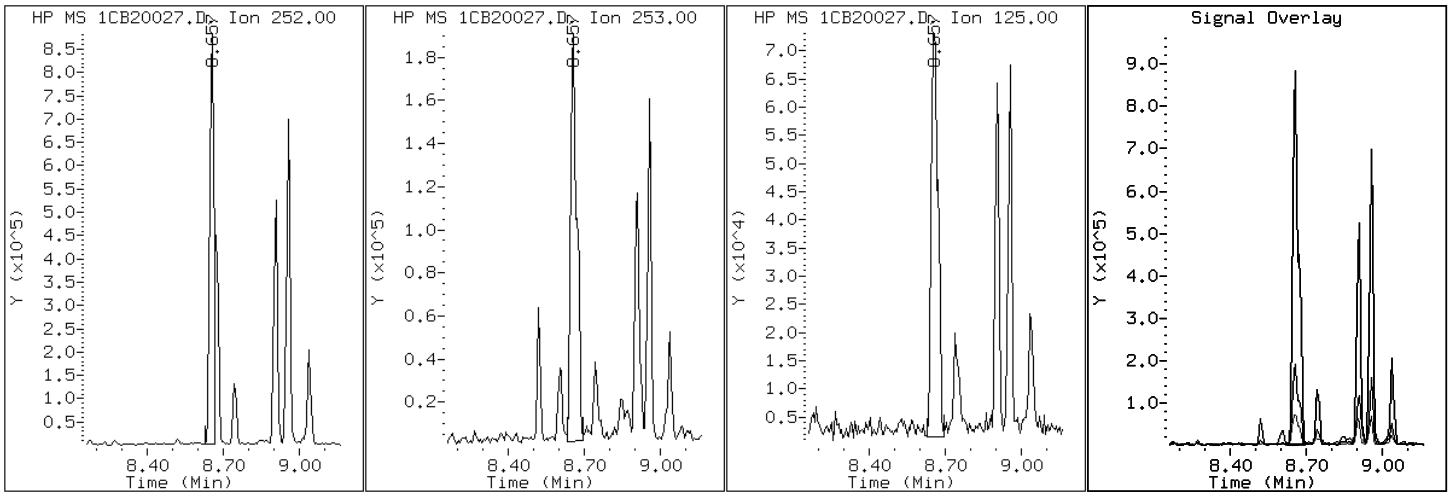
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

20 Benzo(b)fluoranthene



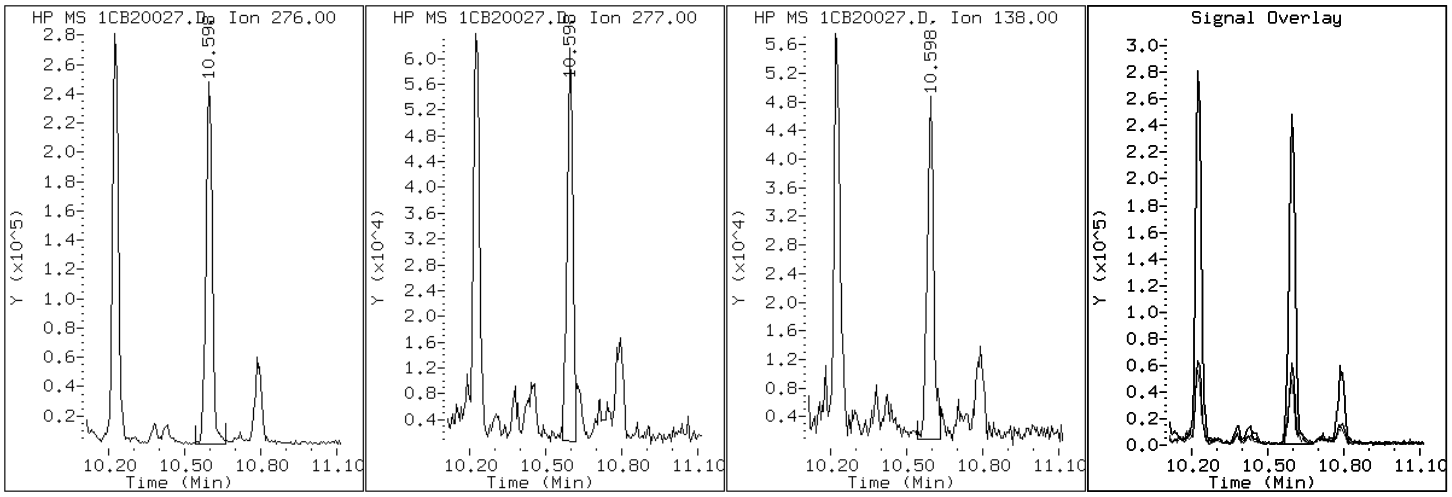
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

26 Benzo(g,h,i)perylene



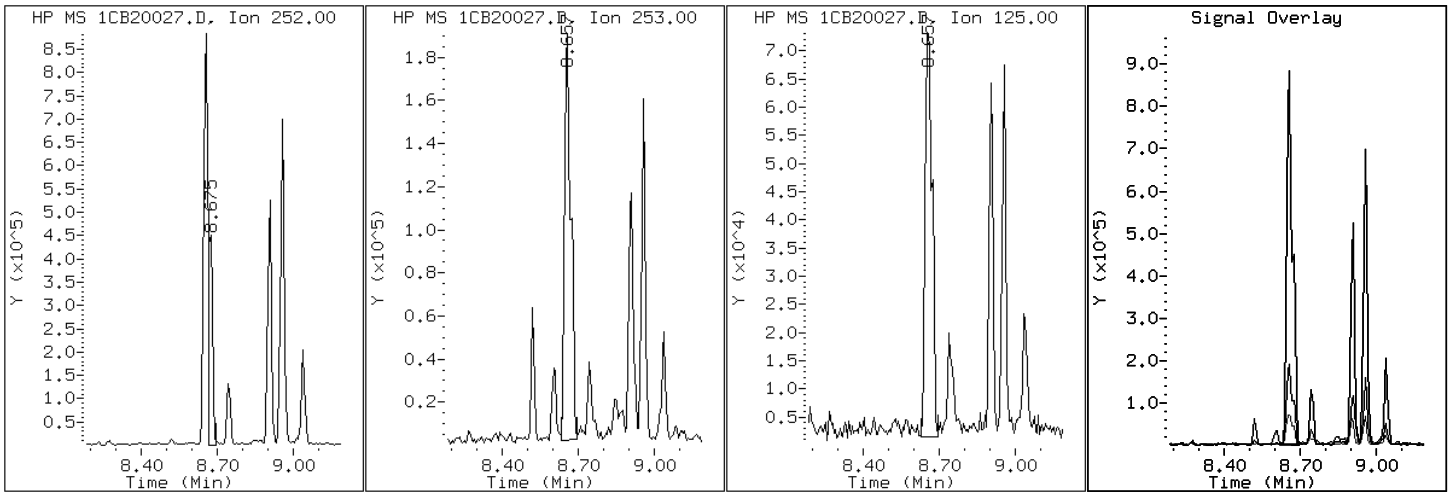
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

21 Benzo(k)fluoranthene



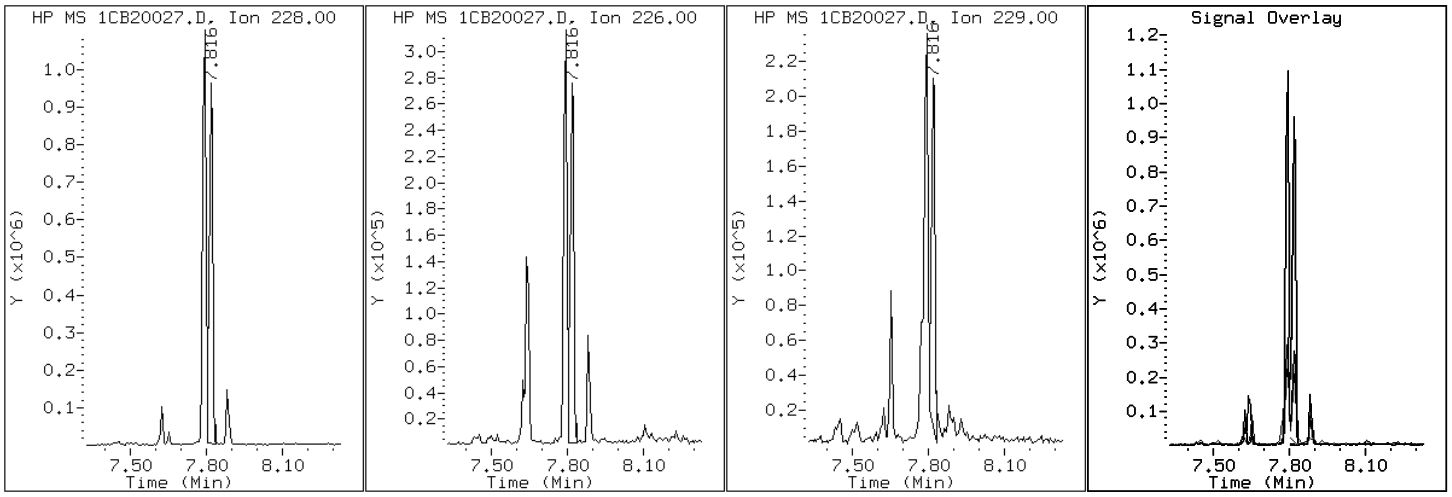
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

19 Chrysene



Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

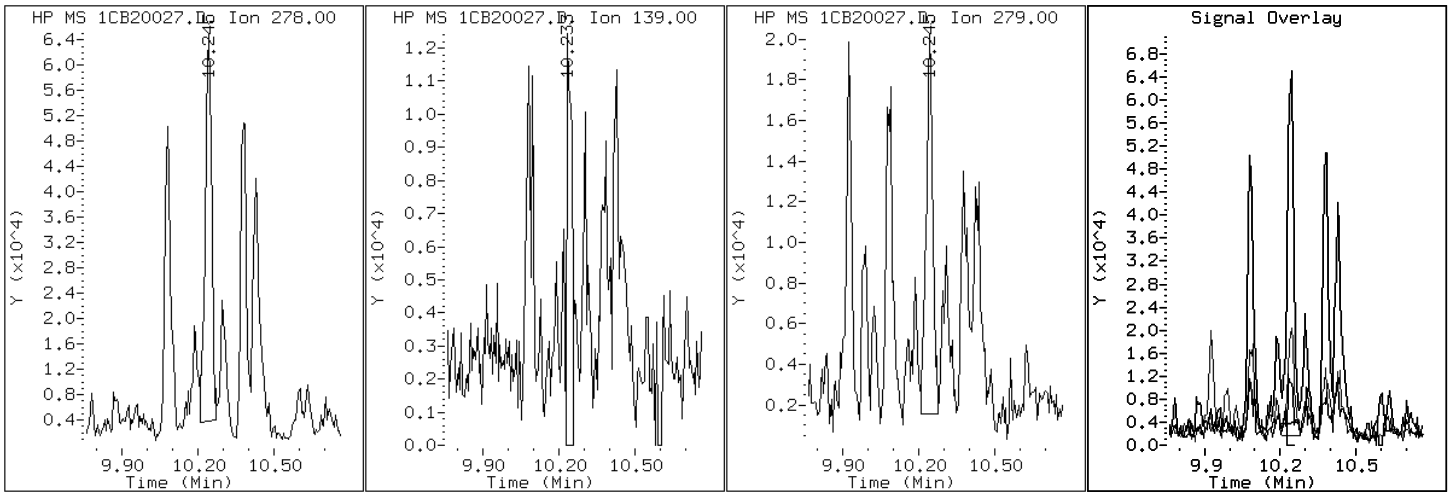
Client ID: CV0971M-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a

Operator: SCC

25 Dibenzo(a,h)anthracene



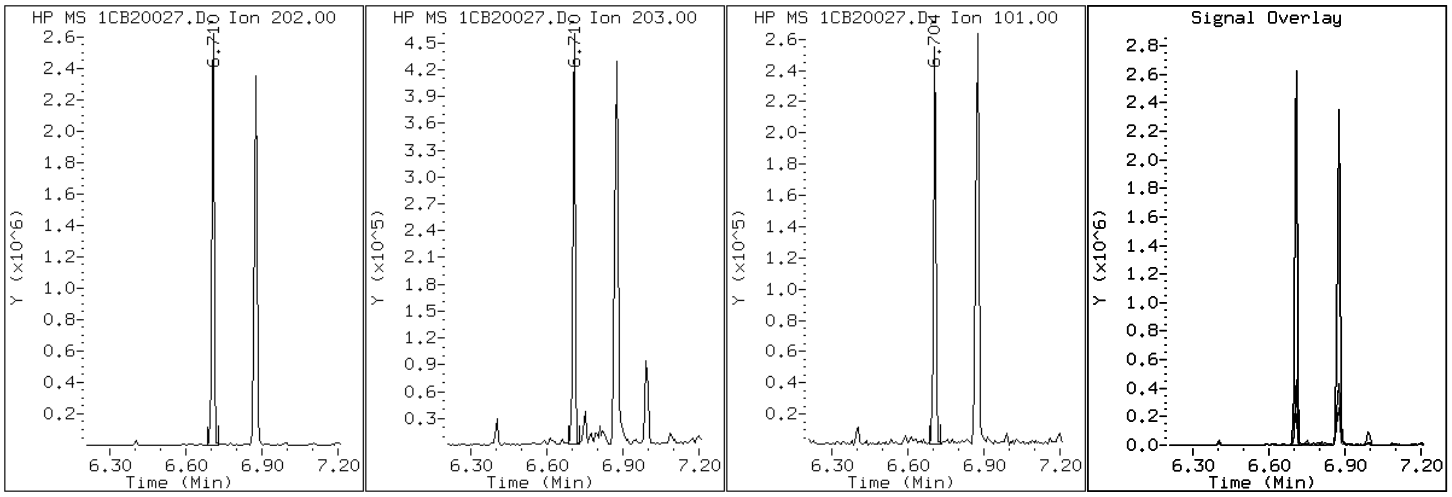
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

15 Fluoranthene



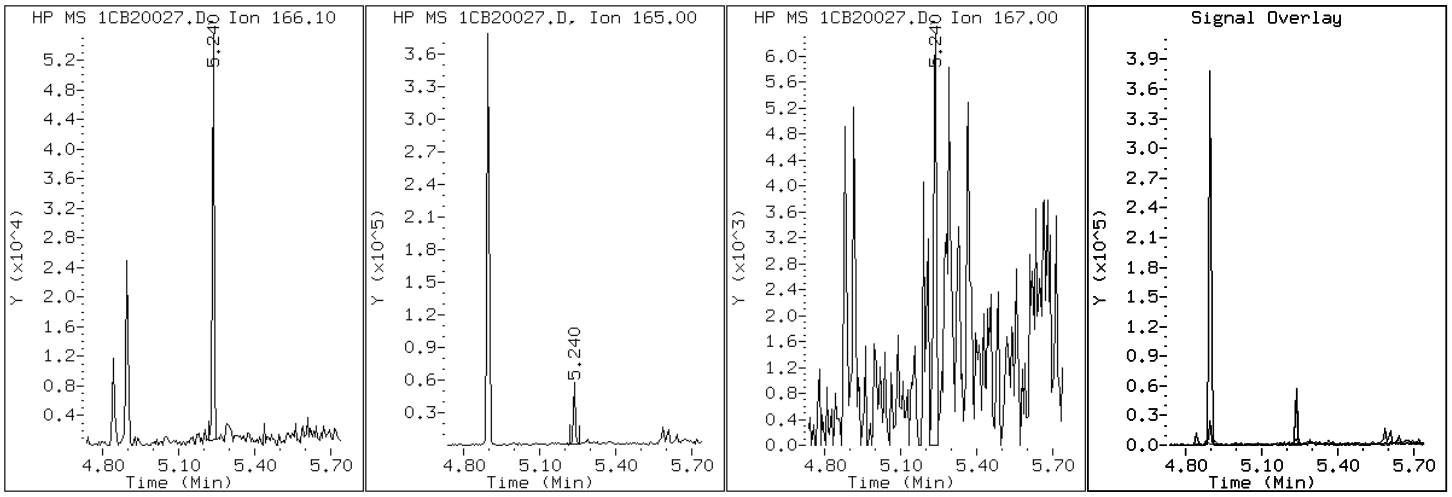
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

9 Fluorene



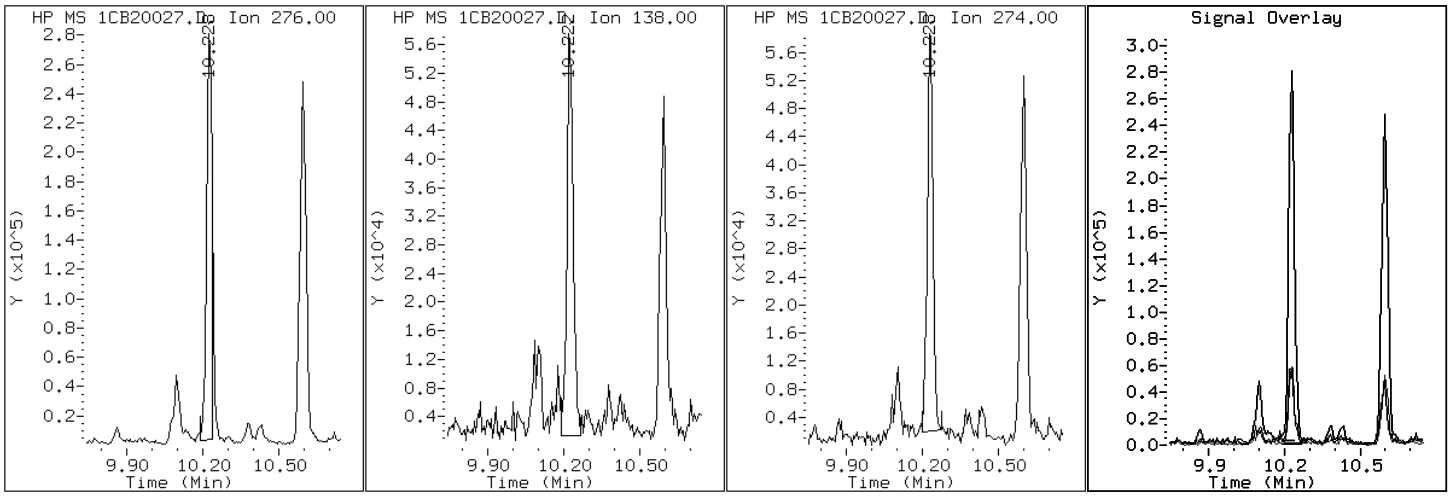
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

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



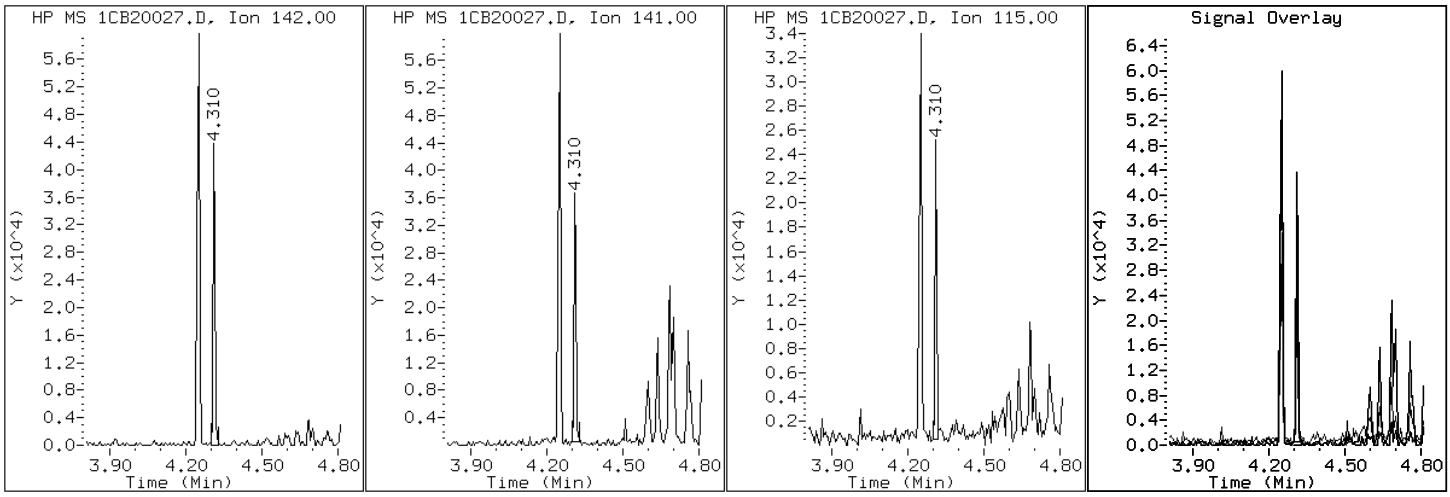
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

4 1-Methylnaphthalene



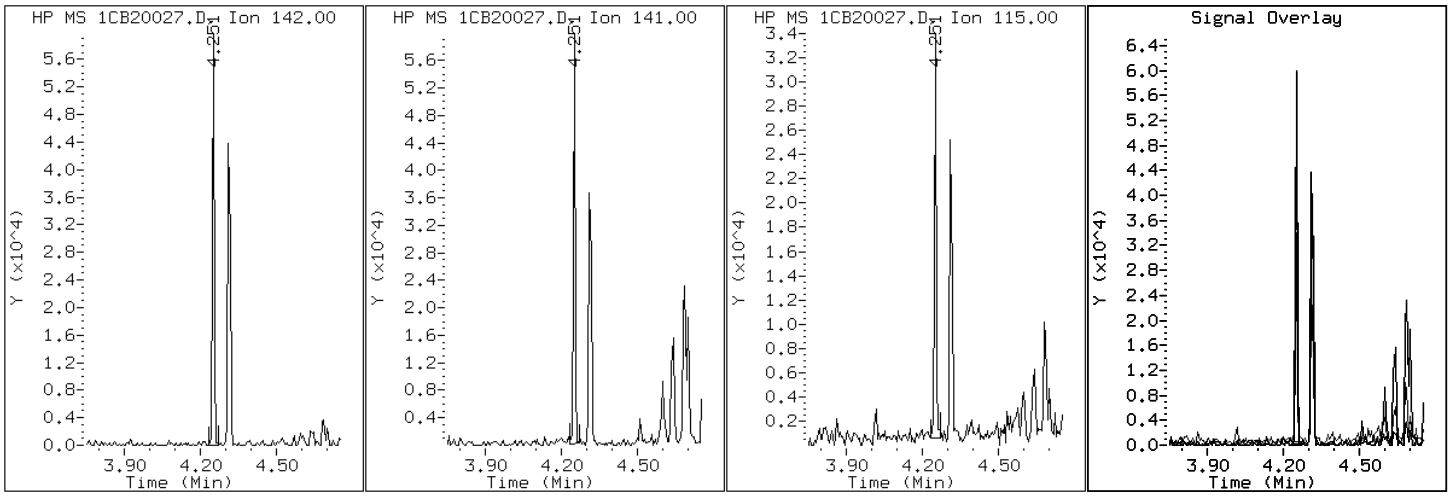
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

3 2-Methylnaphthalene



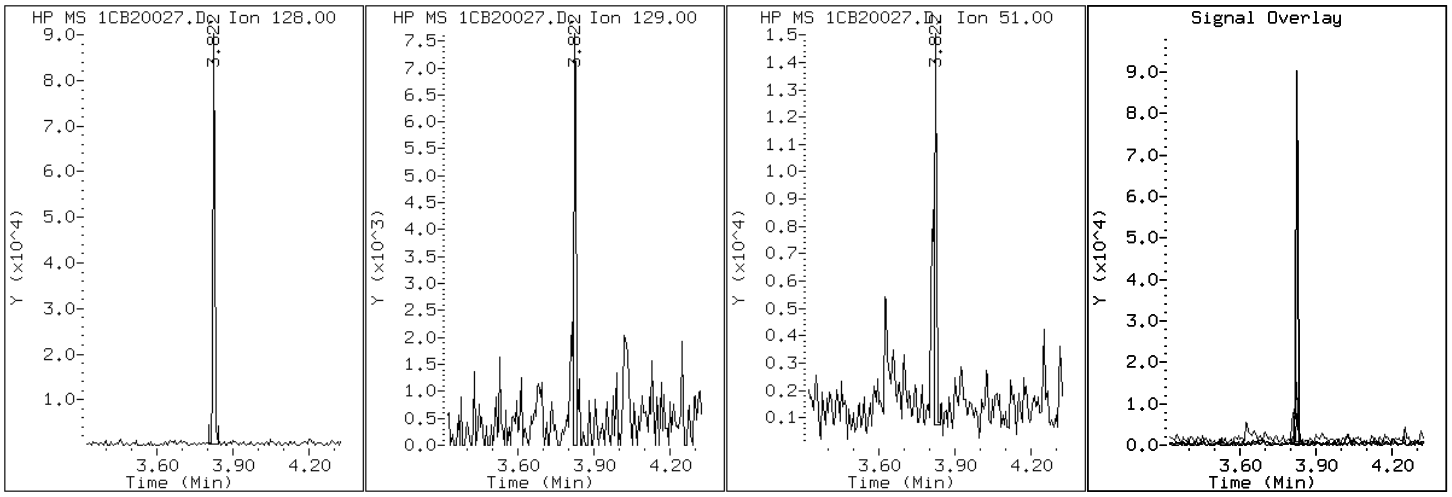
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

2 Naphthalene



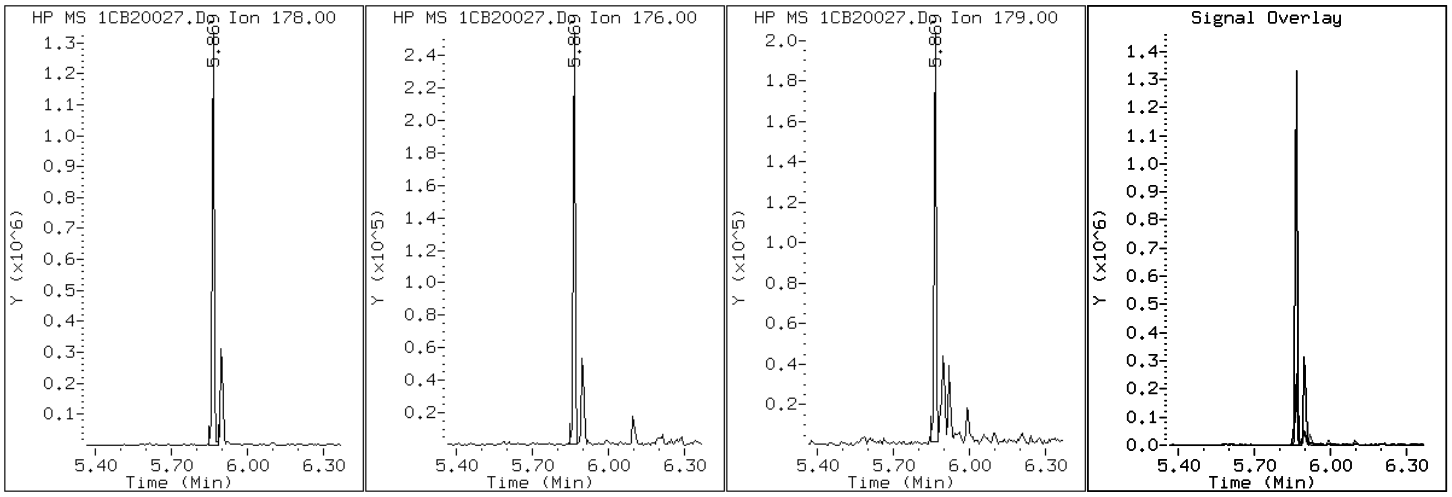
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

11 Phenanthrene



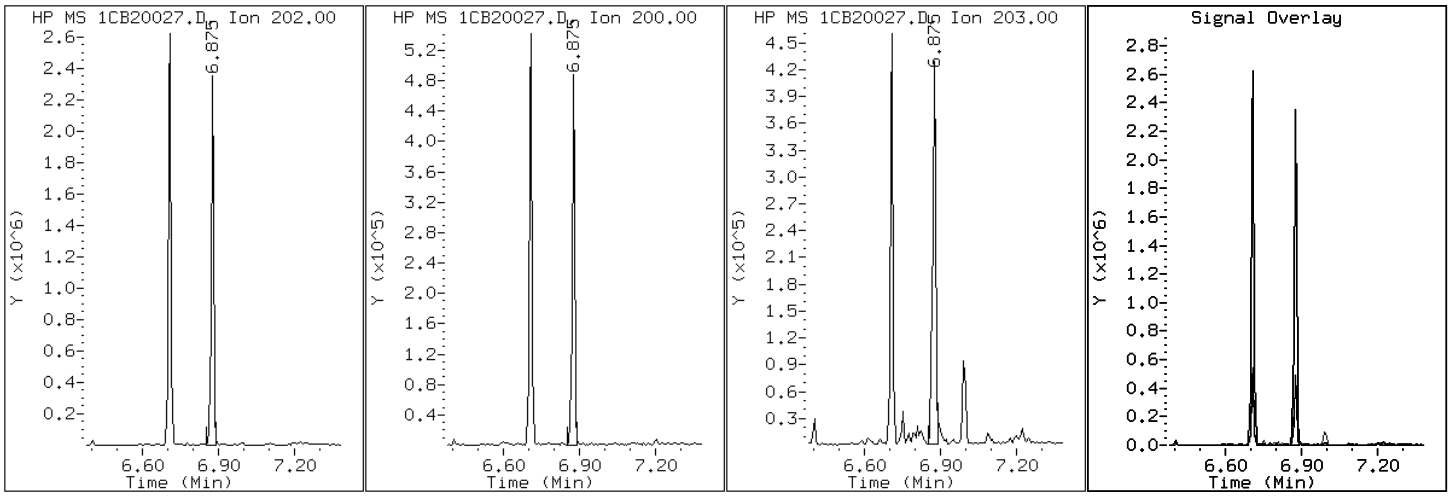
Data File: 1CB20027.D

Date: 20-FEB-2013 21:39

Client ID: CV0971M-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-14-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20027.D
Inj. Date and Time: 20-FEB-2013 21:39
Instrument ID: BSMC5973.i
Client ID: CV0971M-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

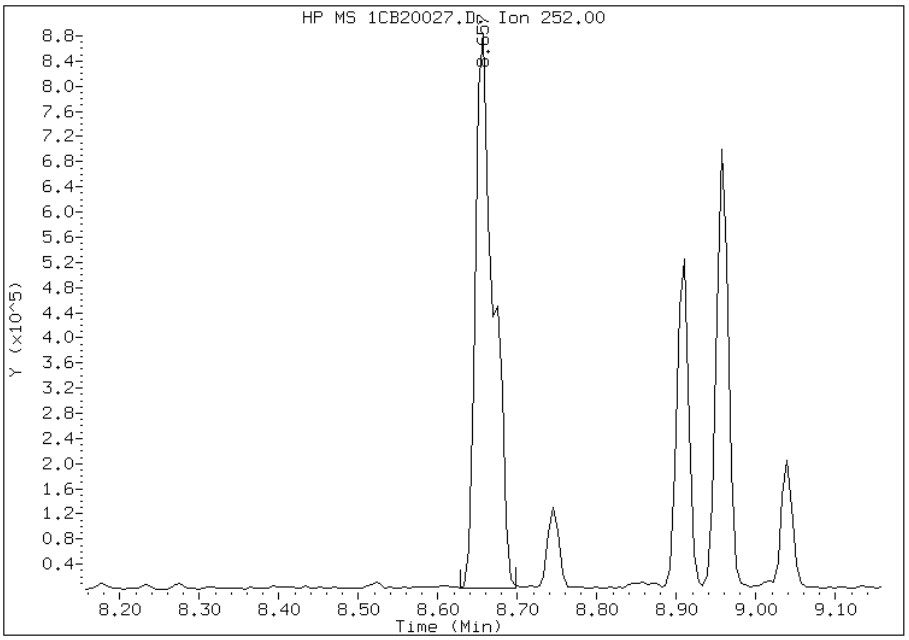
Processing Integration Results

RT: 8.66

Response: 1403046

Amount: 19

Conc: 1826



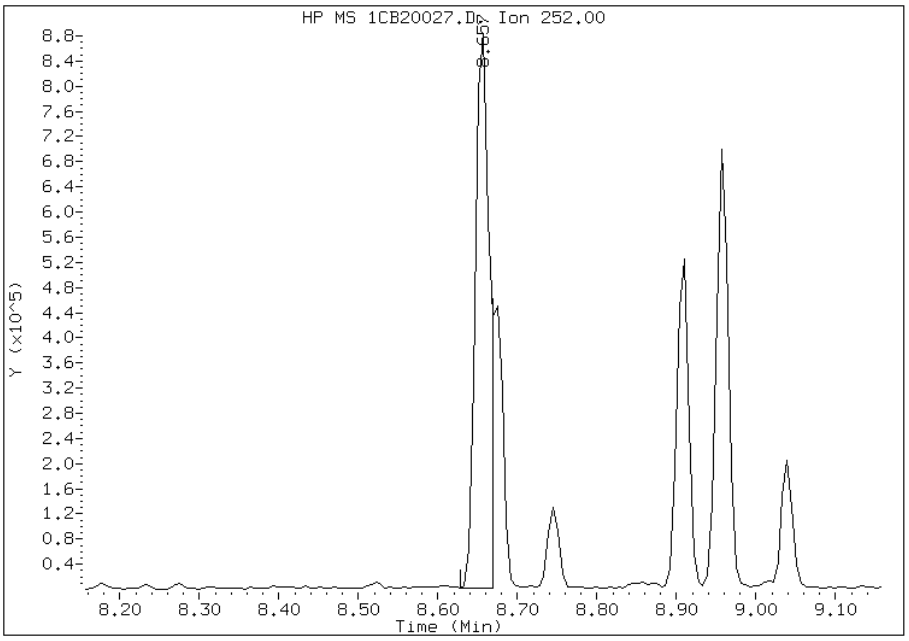
Manual Integration Results

RT: 8.66

Response: 1090832

Amount: 15

Conc: 1420



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:48
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20027.D
Inj. Date and Time: 20-FEB-2013 21:39
Instrument ID: BSMC5973.i
Client ID: CV0971M-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

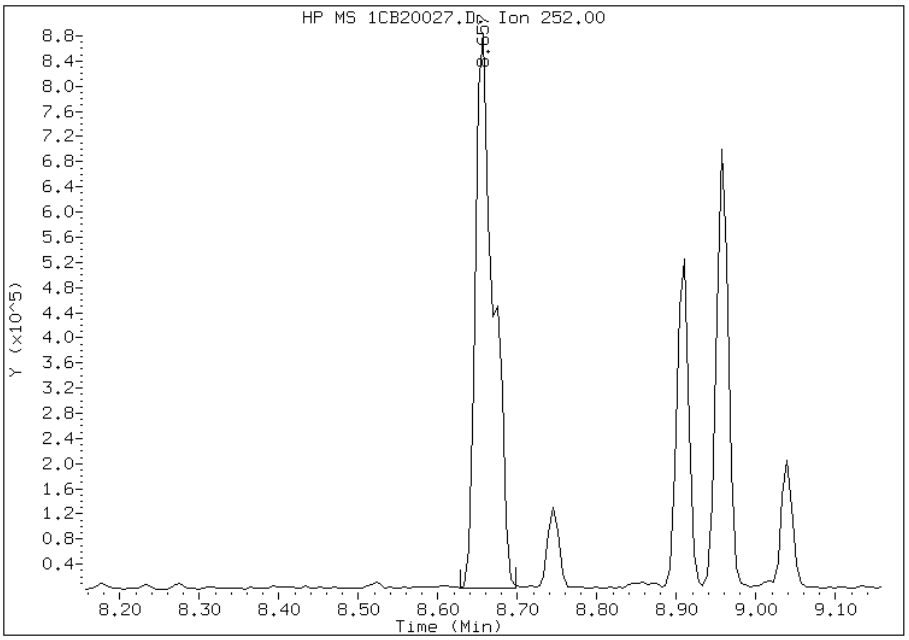
Processing Integration Results

RT: 8.66

Response: 1401426

Amount: 17

Conc: 1655



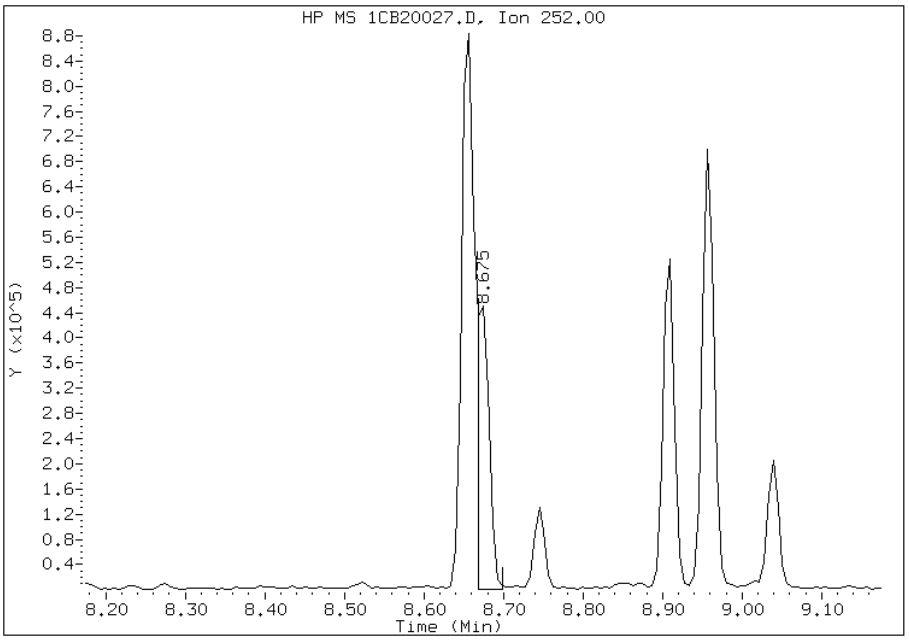
Manual Integration Results

RT: 8.67

Response: 467465

Amount: 6

Conc: 552



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20027.D
Inj. Date and Time: 20-FEB-2013 21:39
Instrument ID: BSMC5973.i
Client ID: CV0971M-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

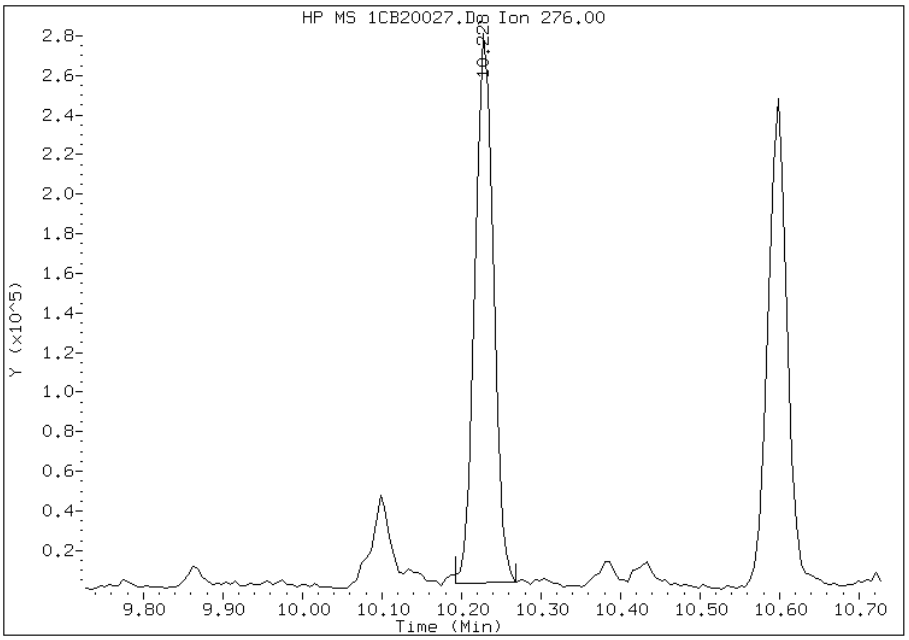
Processing Integration Results

RT: 10.23

Response: 444250

Amount: 7

Conc: 633



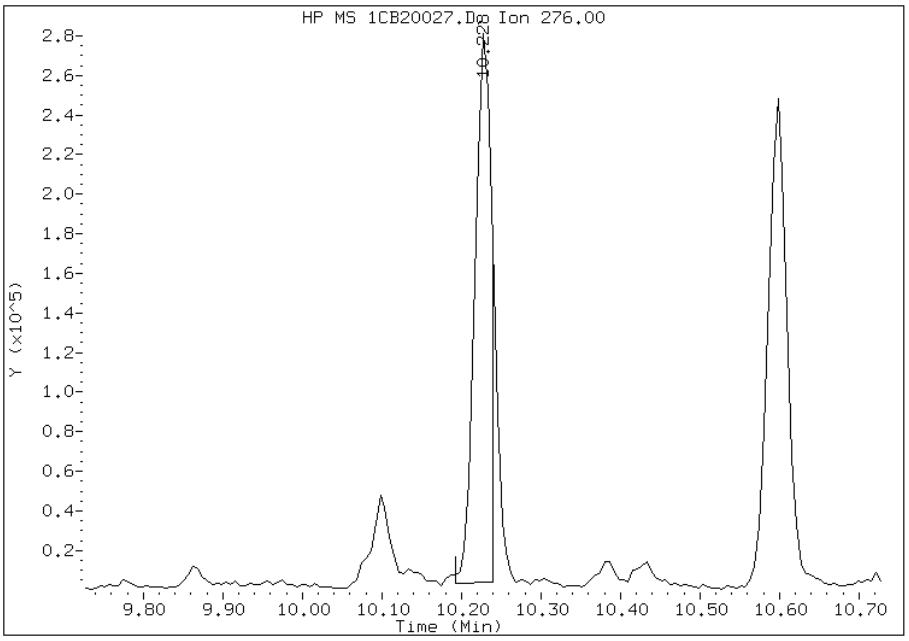
Manual Integration Results

RT: 10.23

Response: 396453

Amount: 6

Conc: 565



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971N-CS | Lab Sample ID: 680-87447-15

Matrix: Solid | Lab File ID: 1CB20028.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 09:58

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 14.96(g) | Date Analyzed: 02/20/2013 21:57

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

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

% Moisture: 30.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	29
208-96-8	Acenaphthylene	36	J	58	7.2
120-12-7	Anthracene	36		12	6.0
56-55-3	Benzo[a]anthracene	210		12	5.6
50-32-8	Benzo[a]pyrene	200		15	7.5
205-99-2	Benzo[b]fluoranthene	320		18	8.8
191-24-2	Benzo[g,h,i]perylene	140		29	6.3
207-08-9	Benzo[k]fluoranthene	100		12	5.2
218-01-9	Chrysene	210		13	6.5
53-70-3	Dibenz(a,h)anthracene	40		29	5.9
206-44-0	Fluoranthene	410		29	5.8
86-73-7	Fluorene	12	J	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	140		29	10
90-12-0	1-Methylnaphthalene	52	J	58	6.3
91-57-6	2-Methylnaphthalene	58		58	10
91-20-3	Naphthalene	58		58	6.3
85-01-8	Phenanthrene	240		12	5.6
129-00-0	Pyrene	370		29	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20028.D
Lab Smp Id: 680-87447-A-15-A Client Smp ID: CV0971N-CS
Inj Date : 20-FEB-2013 21:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-15-a
Misc Info : 680-87447-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	14.960	Weight Extracted
M	30.386	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2178676	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1679527	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3081337	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	318284	7.04969	676.9259
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3231832	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3015848	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	34705	0.60114	57.7225
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	22587	0.60170	57.7762
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	18330	0.53689	51.5533
5 Acenaphthylene	152	4.810	4.810	(0.982)	25334	0.37915	36.4063
9 Fluorene	166	5.239	5.239	(1.070)	6672	0.12403	11.9092
11 Phenanthrene	178	5.868	5.869	(1.003)	229829	2.49880	239.9396
12 Anthracene	178	5.898	5.904	(1.008)	30957	0.37357	35.8712
13 Carbazole	167	6.004	6.010	(1.026)	23620	0.32815	31.5091

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.710	(1.146)	382510	4.25611	408.6803
16 Pyrene	202	6.874	6.880	(0.882)	334022	3.88220	372.7771
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	193830	2.17488	208.8362
19 Chrysene	228	7.815	7.827	(1.002)	198515	2.15640	207.0618
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	244436	3.30593	317.4416(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	88978	1.09234	104.8891(QM)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	147334	2.09410	201.0792
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	96571	1.42907	137.2218(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	26260	0.41208	39.5686
26 Benzo(g,h,i)perylene	276	10.597	10.615	(1.175)	103287	1.50468	144.4820

QC Flag Legend

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

Data File: 1CB20028.D

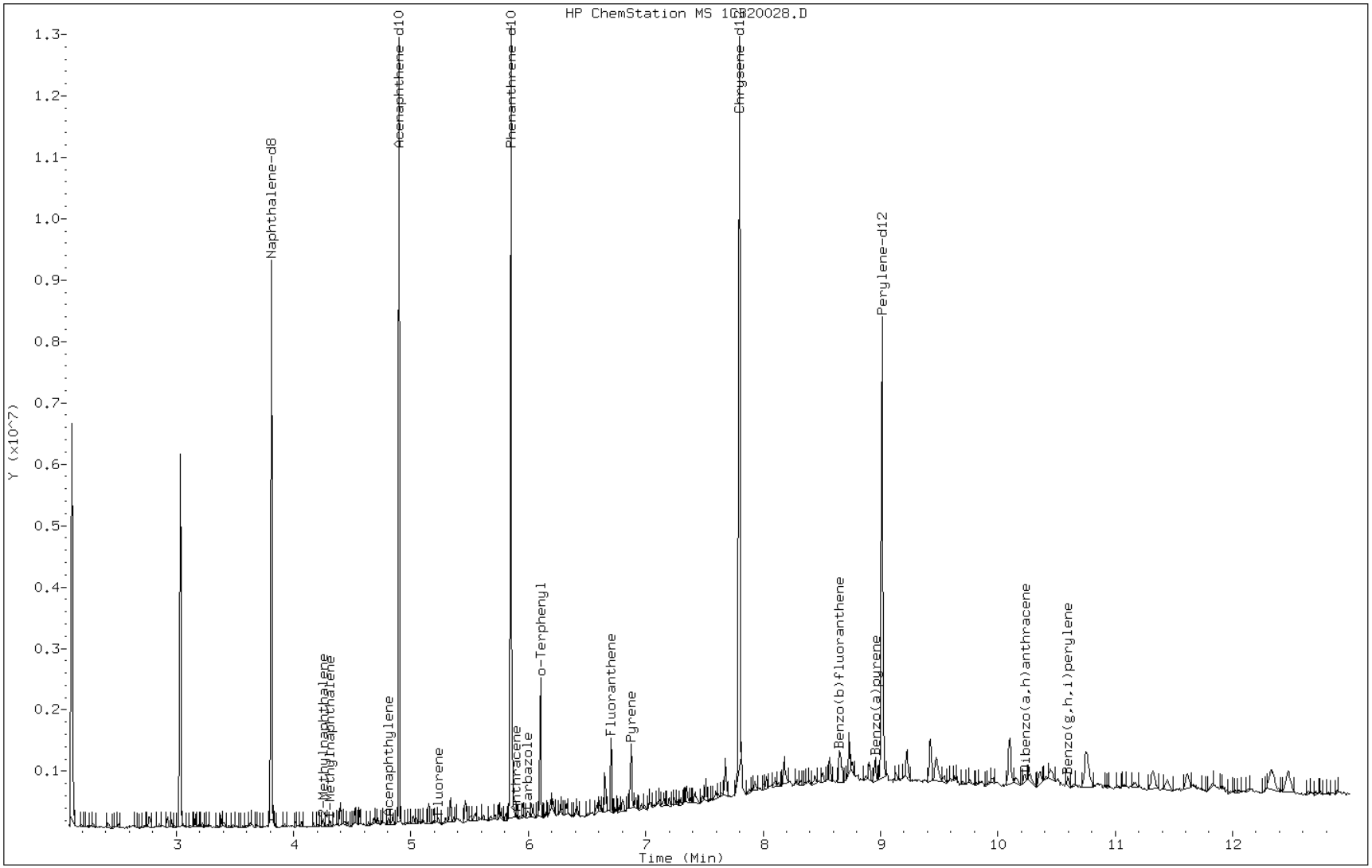
Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a

Operator: SCC



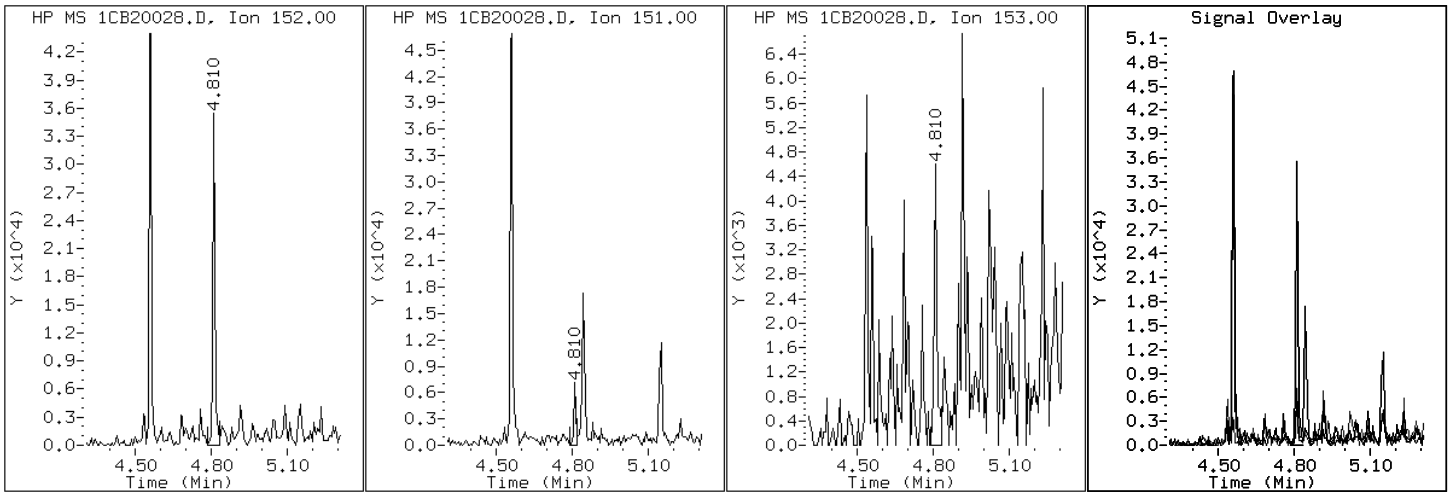
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

5 Acenaphthylene



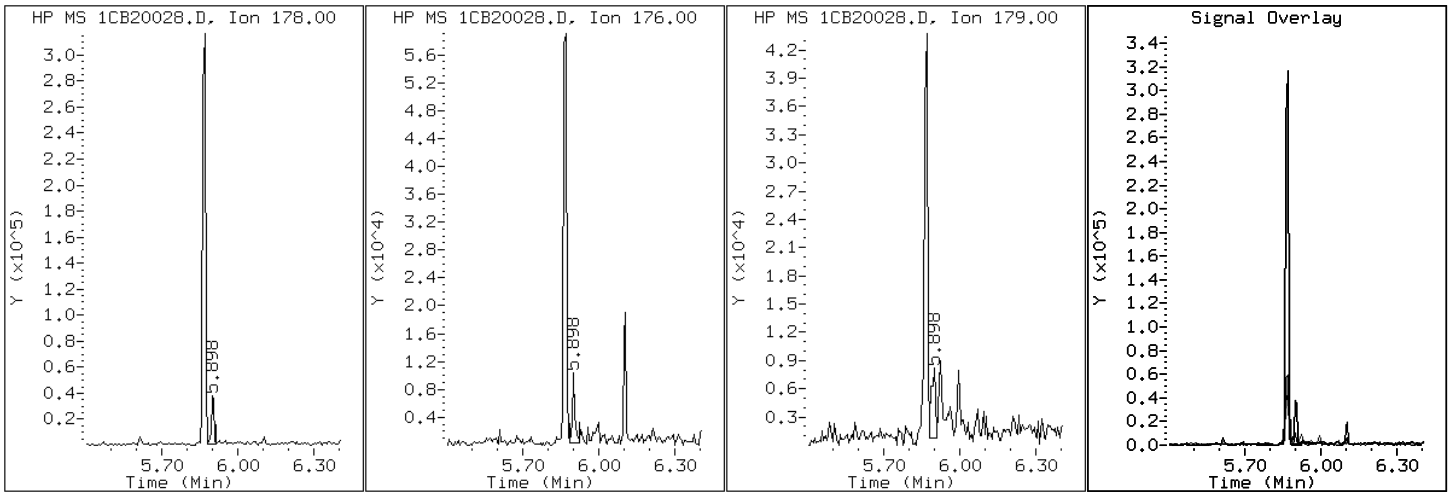
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

12 Anthracene



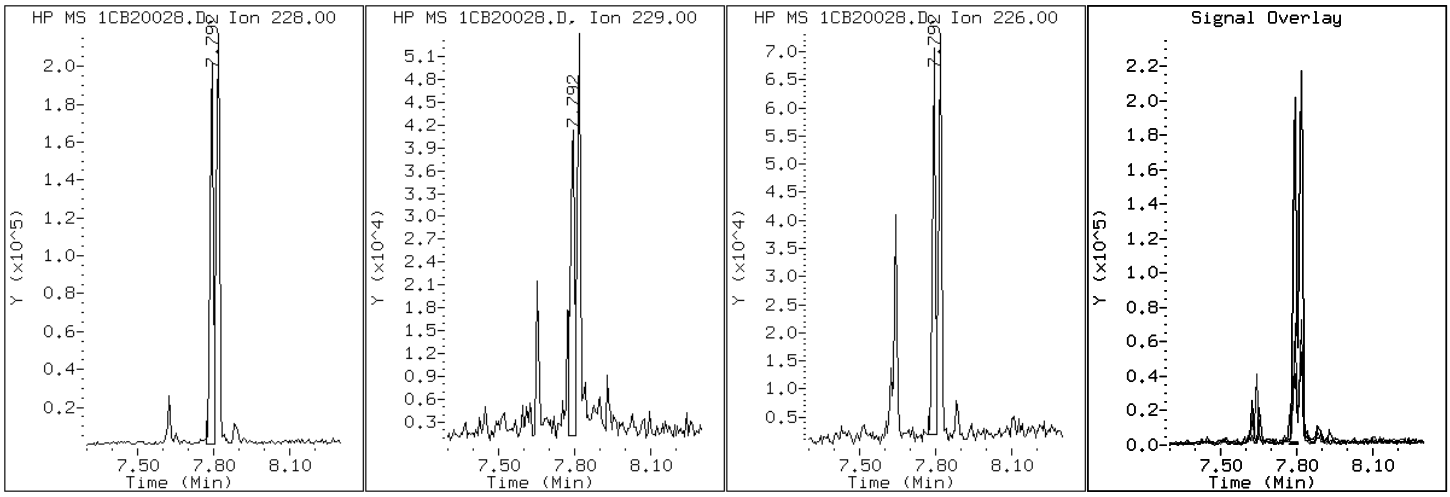
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

17 Benzo(a)anthracene



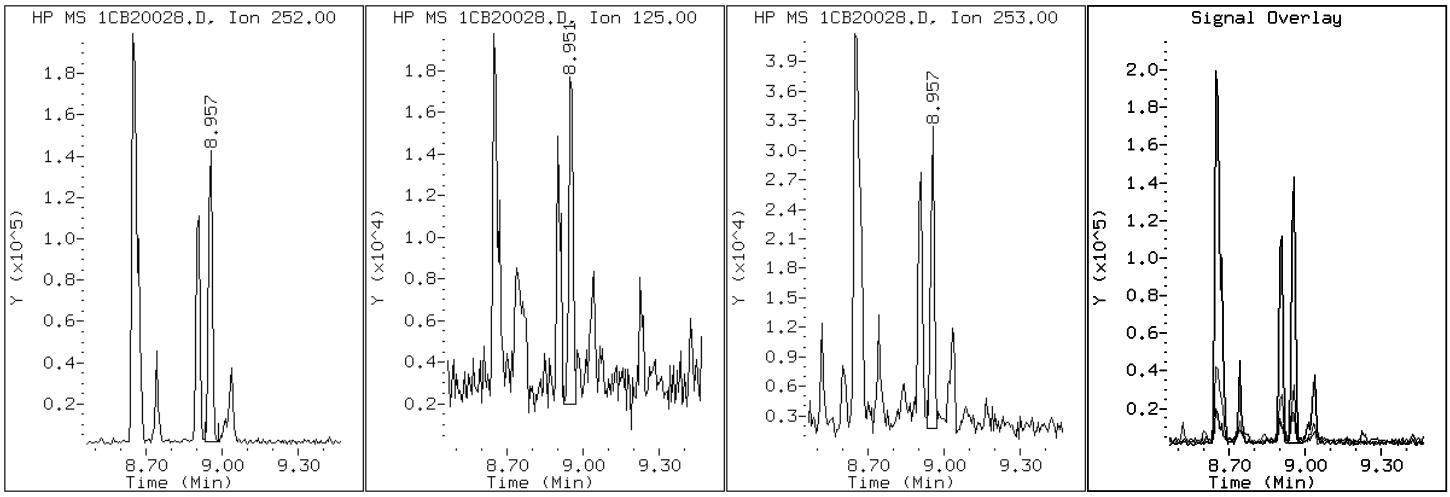
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

22 Benzo(a)pyrene



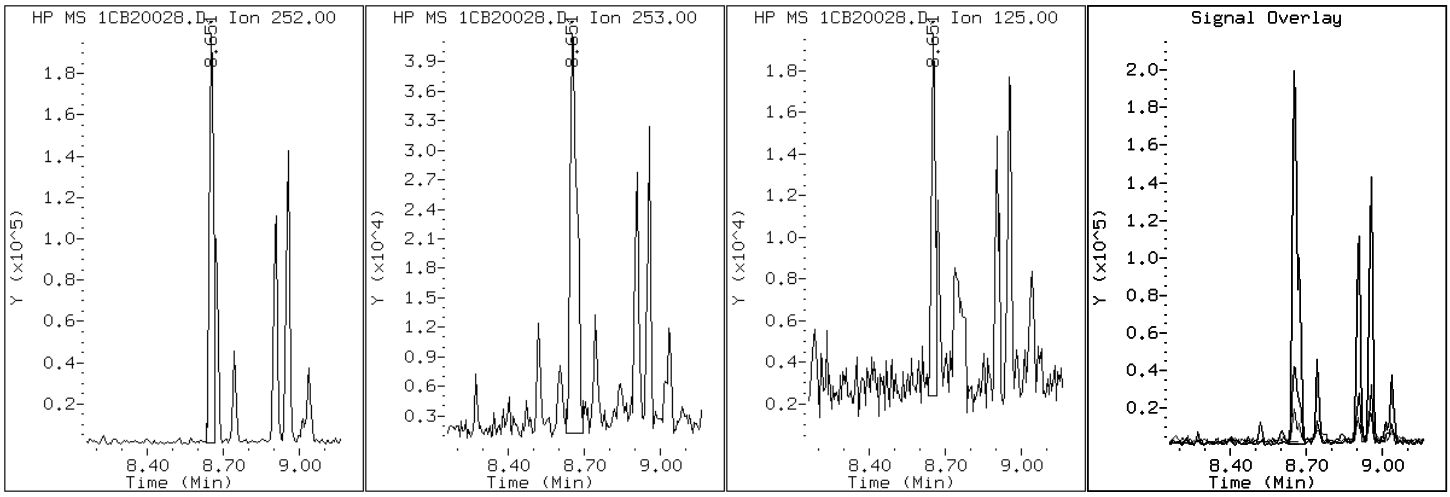
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

20 Benzo(b)fluoranthene



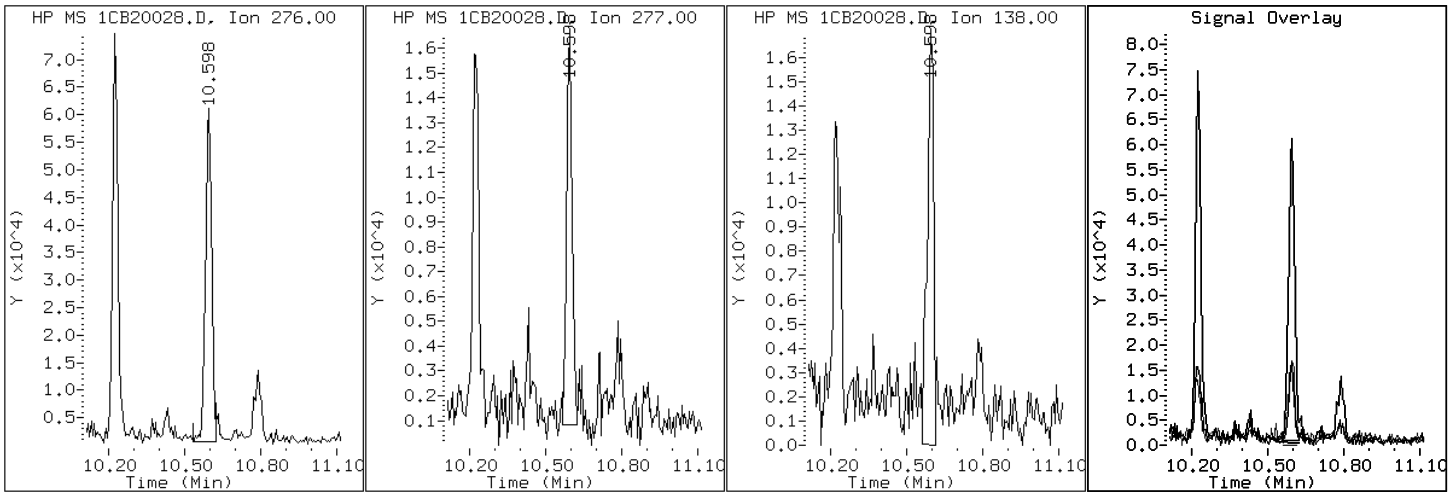
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

26 Benzo(g,h,i)perylene



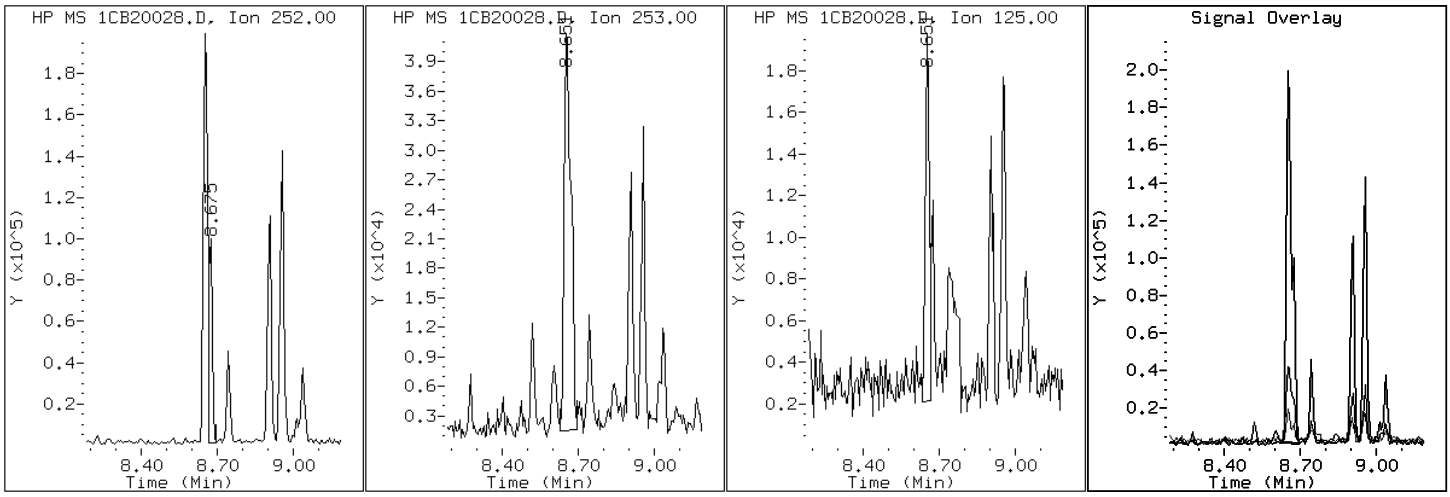
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

21 Benzo(k)fluoranthene



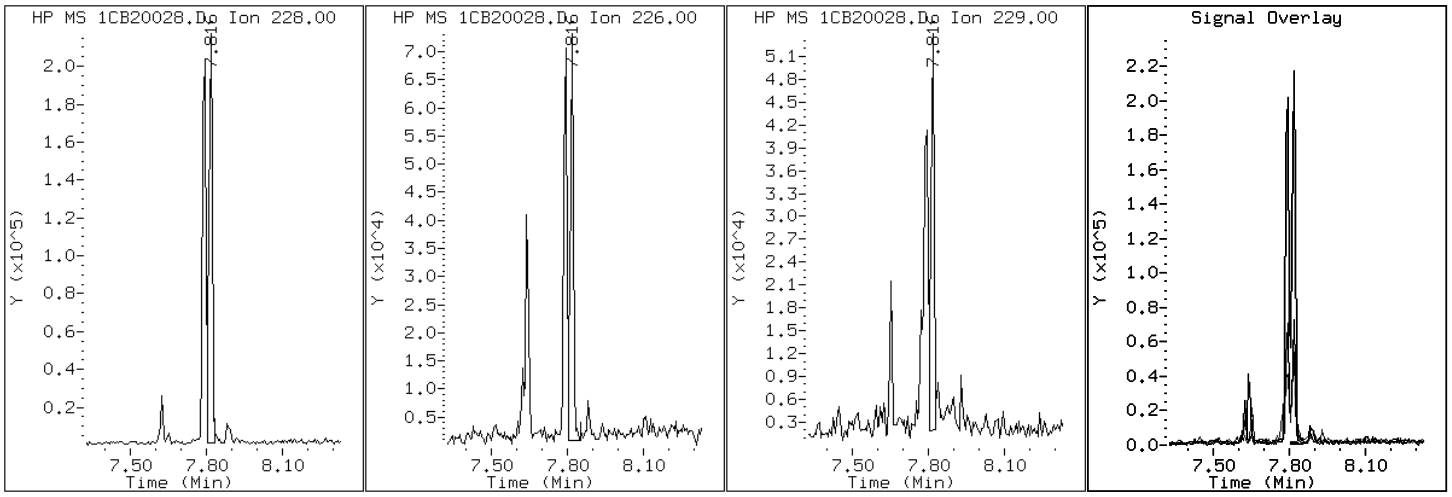
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

19 Chrysene



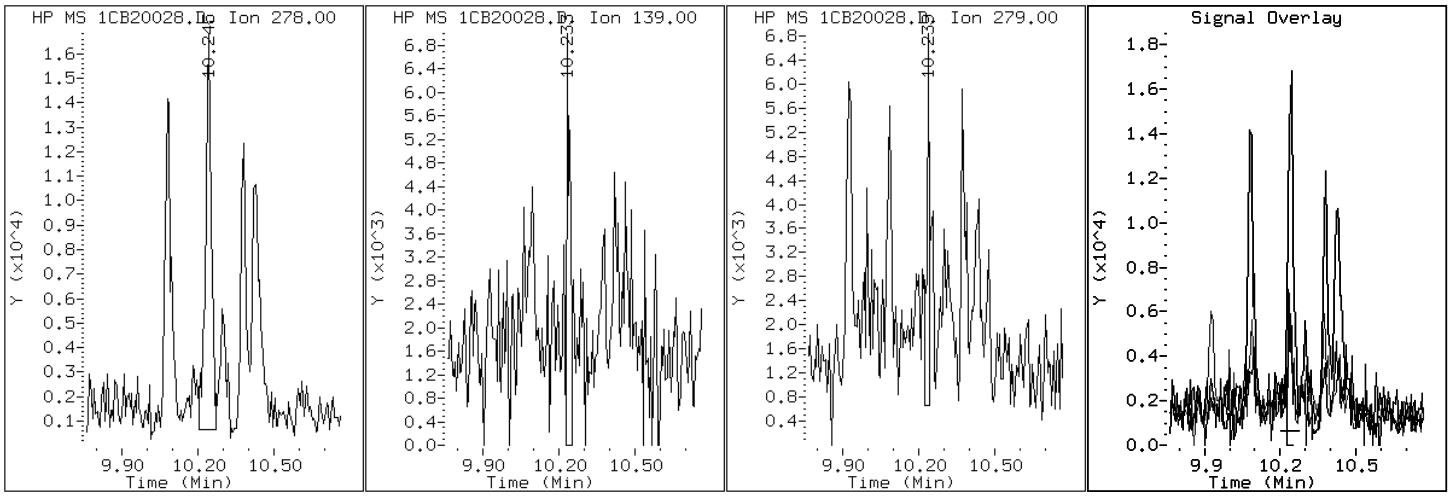
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

25 Dibenzo(a,h)anthracene



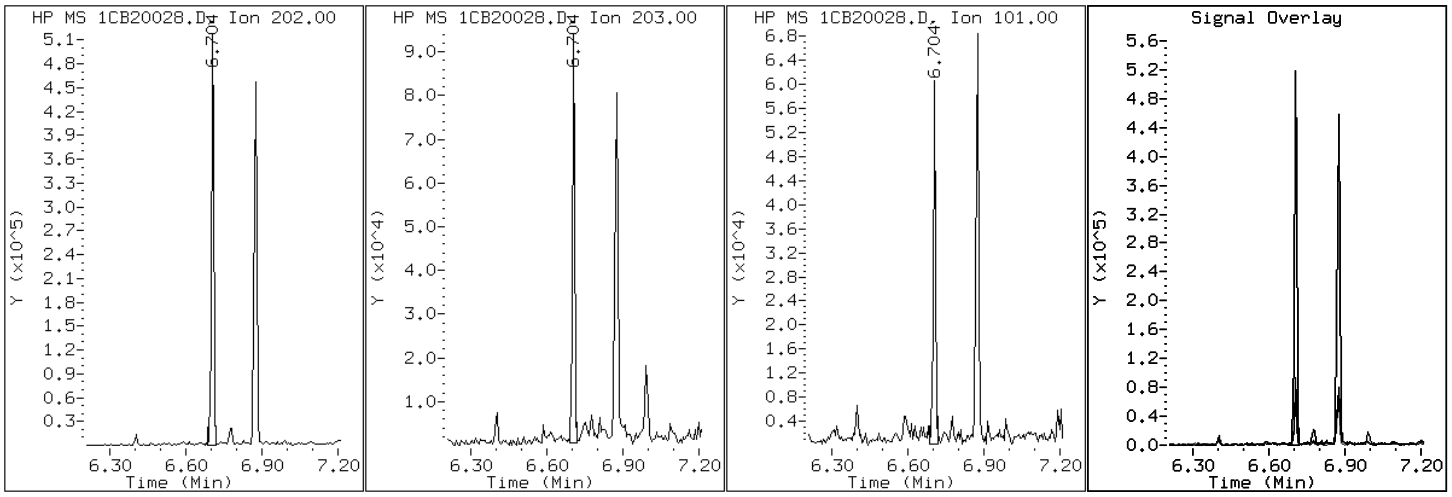
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

15 Fluoranthene



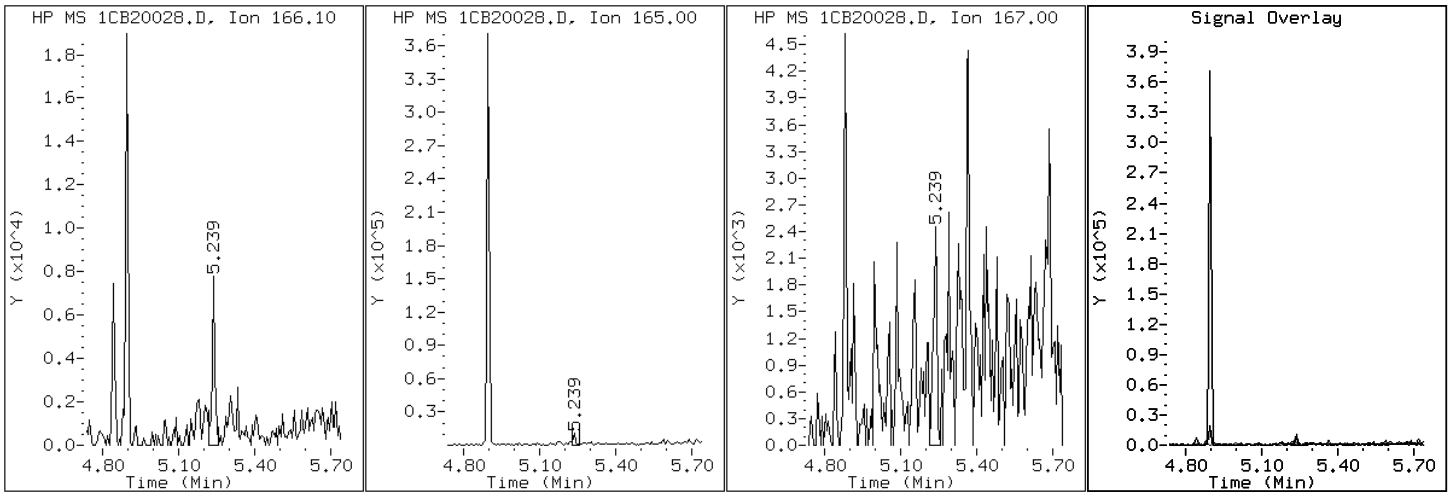
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

9 Fluorene



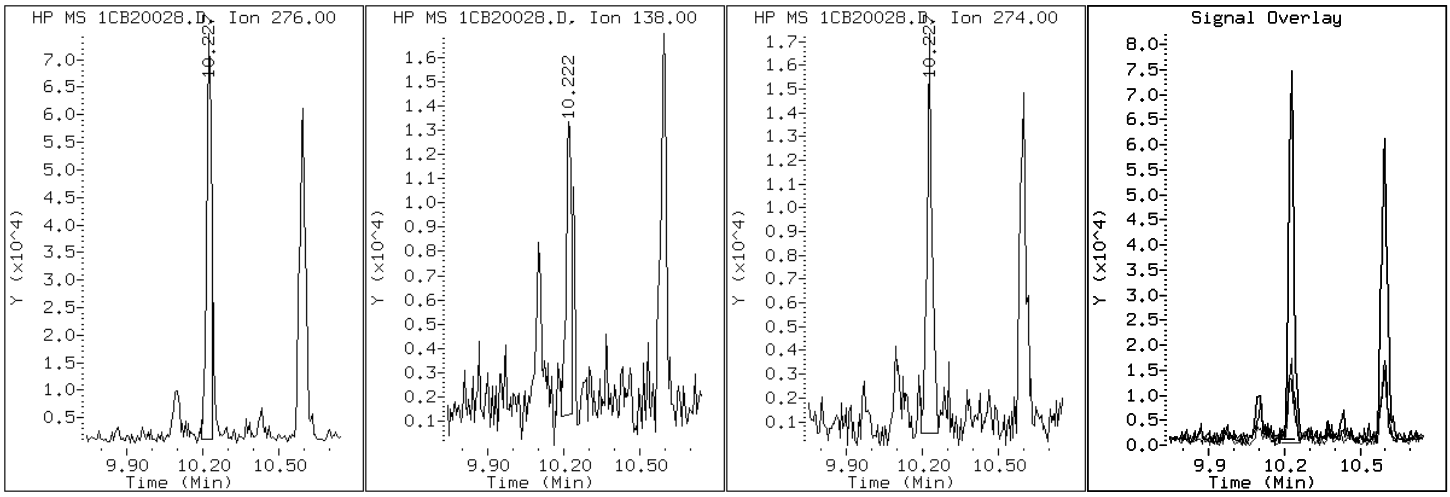
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

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



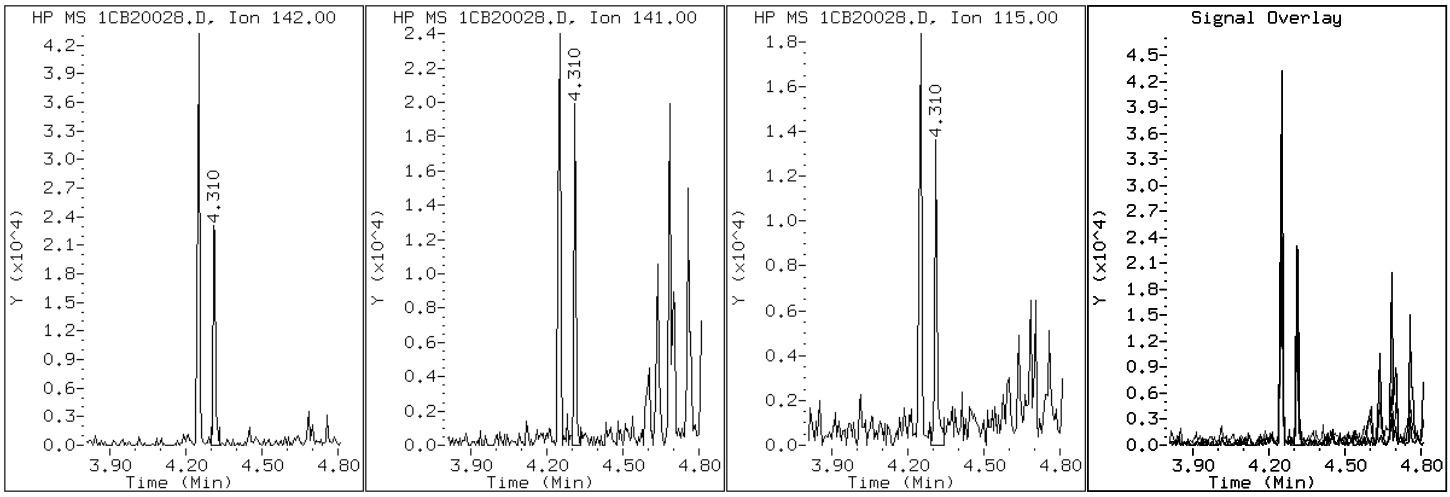
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

4 1-Methylnaphthalene



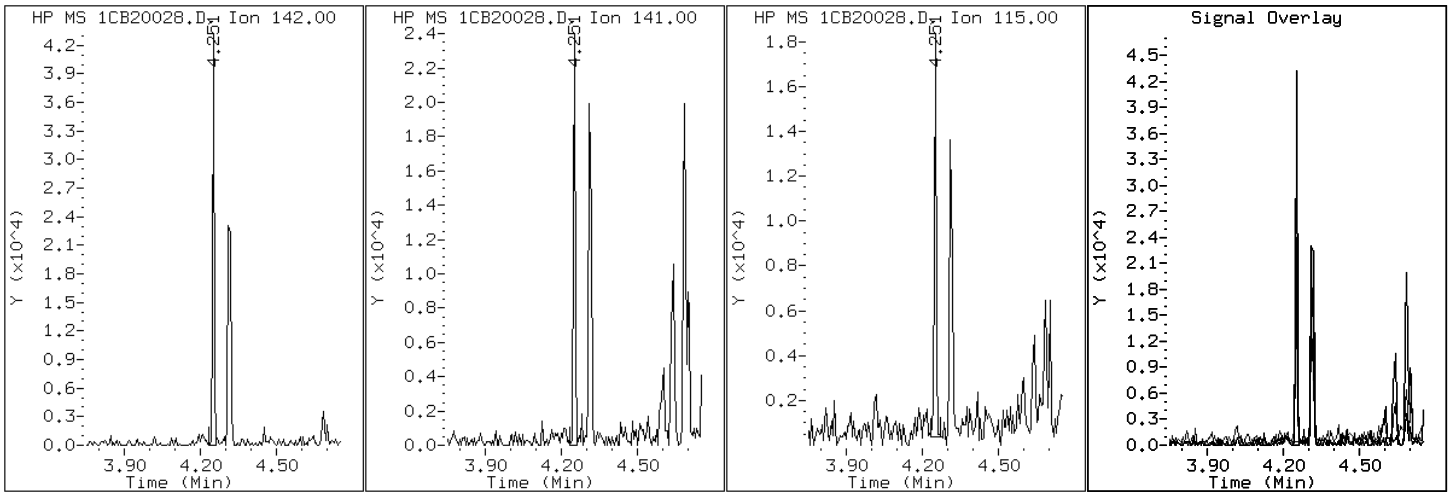
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

3 2-Methylnaphthalene



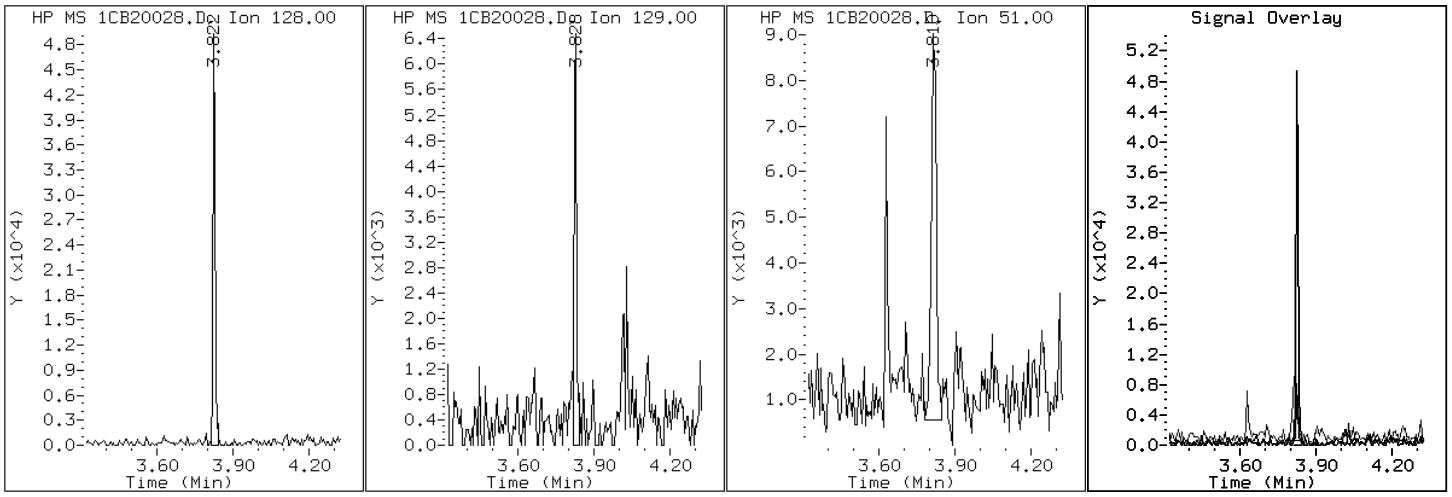
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

2 Naphthalene



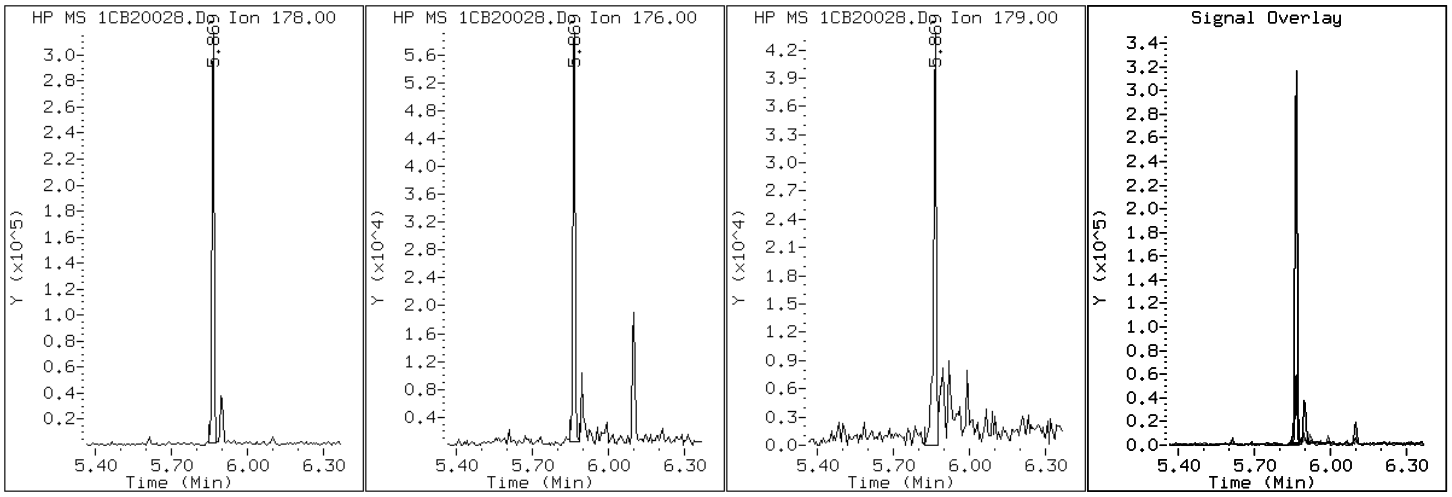
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

11 Phenanthrene



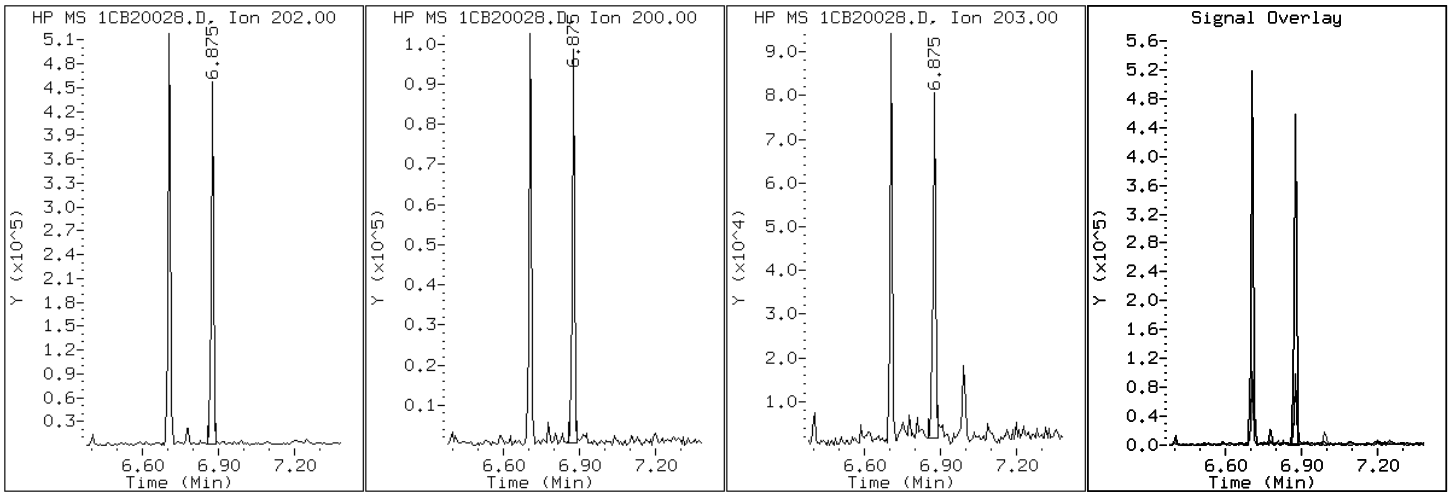
Data File: 1CB20028.D

Date: 20-FEB-2013 21:57

Client ID: CV0971N-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-15-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20028.D
Inj. Date and Time: 20-FEB-2013 21:57
Instrument ID: BSMC5973.i
Client ID: CV0971N-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

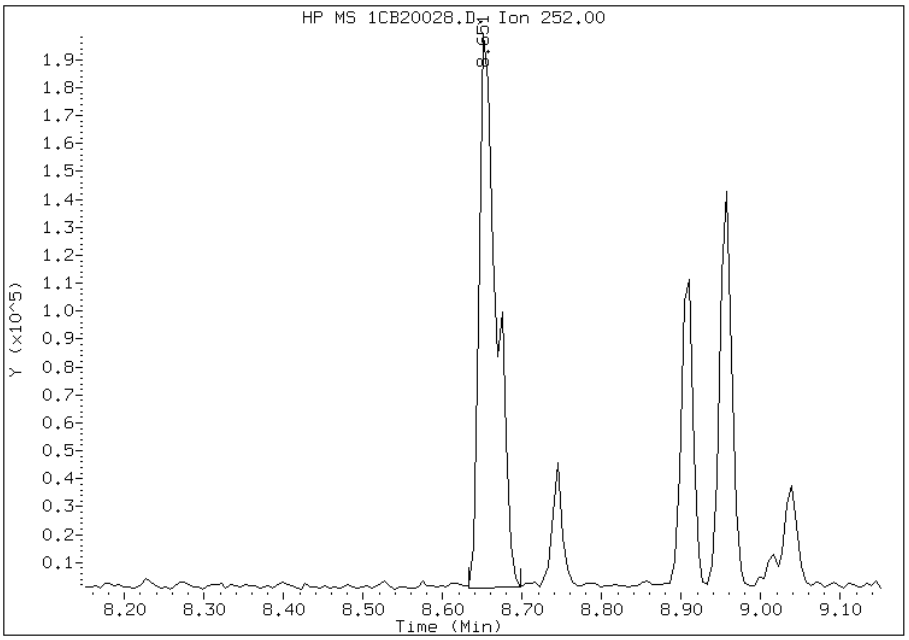
Processing Integration Results

RT: 8.65

Response: 304756

Amount: 4

Conc: 396



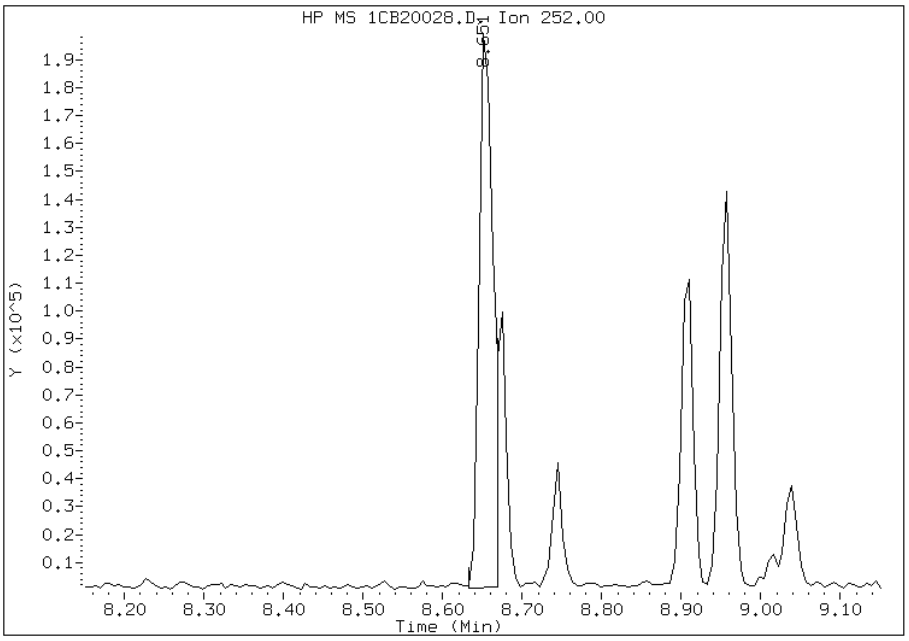
Manual Integration Results

RT: 8.65

Response: 244436

Amount: 3

Conc: 317



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:49
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20028.D
Inj. Date and Time: 20-FEB-2013 21:57
Instrument ID: BSMC5973.i
Client ID: CV0971N-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

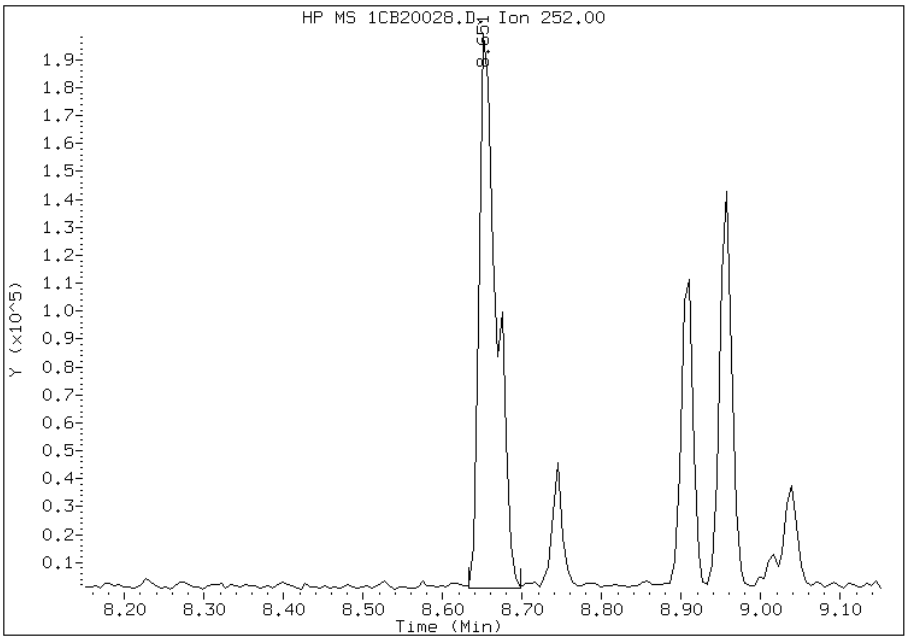
Processing Integration Results

RT: 8.65

Response: 304957

Amount: 4

Conc: 359



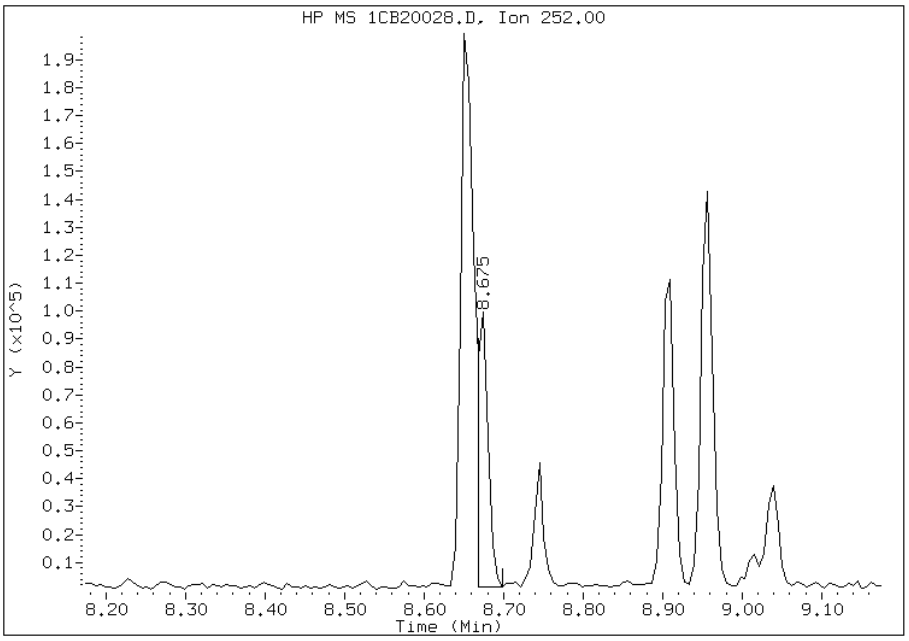
Manual Integration Results

RT: 8.67

Response: 88978

Amount: 1

Conc: 105



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20028.D
Inj. Date and Time: 20-FEB-2013 21:57
Instrument ID: BSMC5973.i
Client ID: CV0971N-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

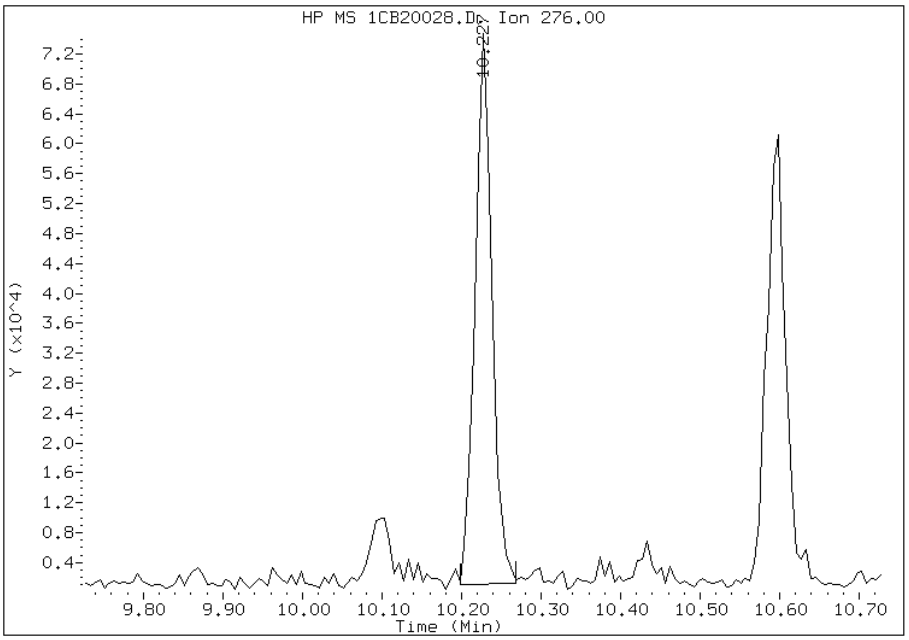
Processing Integration Results

RT: 10.23

Response: 106987

Amount: 2

Conc: 152



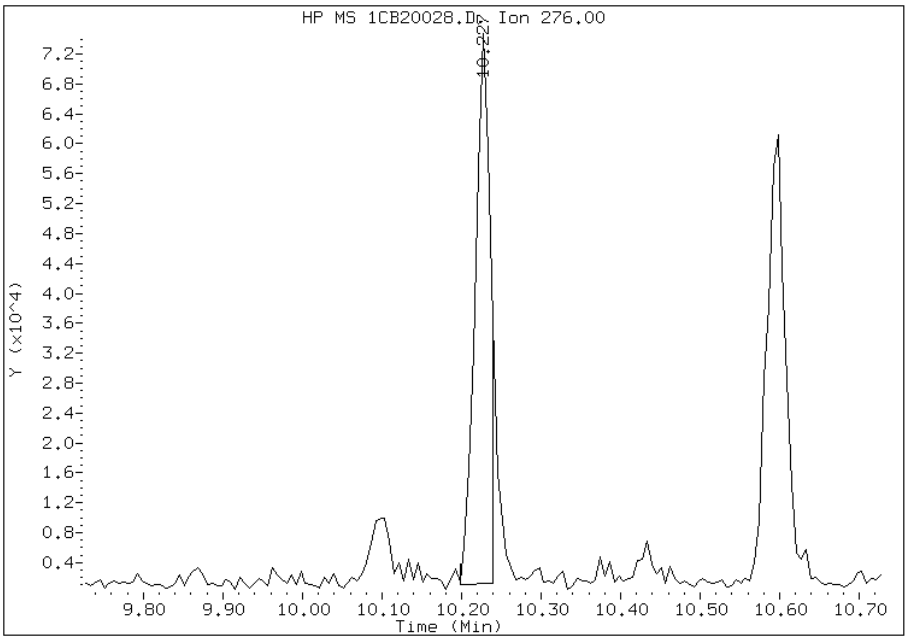
Manual Integration Results

RT: 10.23

Response: 96571

Amount: 1

Conc: 137



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971O-CS | Lab Sample ID: 680-87447-16

Matrix: Solid | Lab File ID: 1CB20031.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 10:29

Extract. Method: 3546 | Date Extracted: 02/19/2013 14:49

Sample wt/vol: 15.05(g) | Date Analyzed: 02/20/2013 22:52

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

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

% Moisture: 36.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	620	U	620	120
208-96-8	Acenaphthylene	250	U	250	31
120-12-7	Anthracene	140		52	26
56-55-3	Benzo[a]anthracene	550		50	24
50-32-8	Benzo[a]pyrene	550		65	32
205-99-2	Benzo[b]fluoranthene	930		76	38
191-24-2	Benzo[g,h,i]perylene	400		120	27
207-08-9	Benzo[k]fluoranthene	250		50	22
218-01-9	Chrysene	630		56	28
53-70-3	Dibenz(a,h)anthracene	110	J	120	26
206-44-0	Fluoranthene	1200		120	25
86-73-7	Fluorene	44	J	120	26
193-39-5	Indeno[1,2,3-cd]pyrene	350		120	44
90-12-0	1-Methylnaphthalene	54	J	250	27
91-57-6	2-Methylnaphthalene	63	J	250	44
91-20-3	Naphthalene	63	J	250	27
85-01-8	Phenanthrene	540		50	24
129-00-0	Pyrene	1100		120	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	67		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20031.D
Lab Smp Id: 680-87447-A-16-A Client Smp ID: CV0971O-CS
Inj Date : 20-FEB-2013 22:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-16-a
Misc Info : 680-87447-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 31
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	36.068	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2068315	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1607399	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2953192	40.0000	
$ 14 o-Terphenyl	230	6.098	6.104	(1.042)	72260	1.66994	694.2385
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3205292	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2988372	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	8277	0.15102	62.7826(QM)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	5411	0.15184	63.1220
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	4230	0.13051	54.2560
9 Fluorene	166	5.239	5.239	(1.070)	5508	0.10698	44.4756
11 Phenanthrene	178	5.863	5.869	(1.002)	113737	1.29026	536.3933
12 Anthracene	178	5.898	5.904	(1.008)	27344	0.34429	143.1310
13 Carbazole	167	6.004	6.010	(1.026)	18475	0.26780	111.3336
15 Fluoranthene	202	6.704	6.710	(1.146)	247449	2.87279	1194.2933

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.874	6.880	(0.882)	217861	2.55308	1061.3821
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	116325	1.31604	547.1116
19 Chrysene	228	7.815	7.827	(1.002)	137388	1.50476	625.5668
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	163047	2.22544	925.1735(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	49415	0.61222	254.5178(M)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	91804	1.31683	547.4413
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	56810	0.84841	352.7061(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	16599	0.26287	109.2824
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	65651	0.96519	401.2557(M)

QC Flag Legend

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

Data File: 1CB20031.D

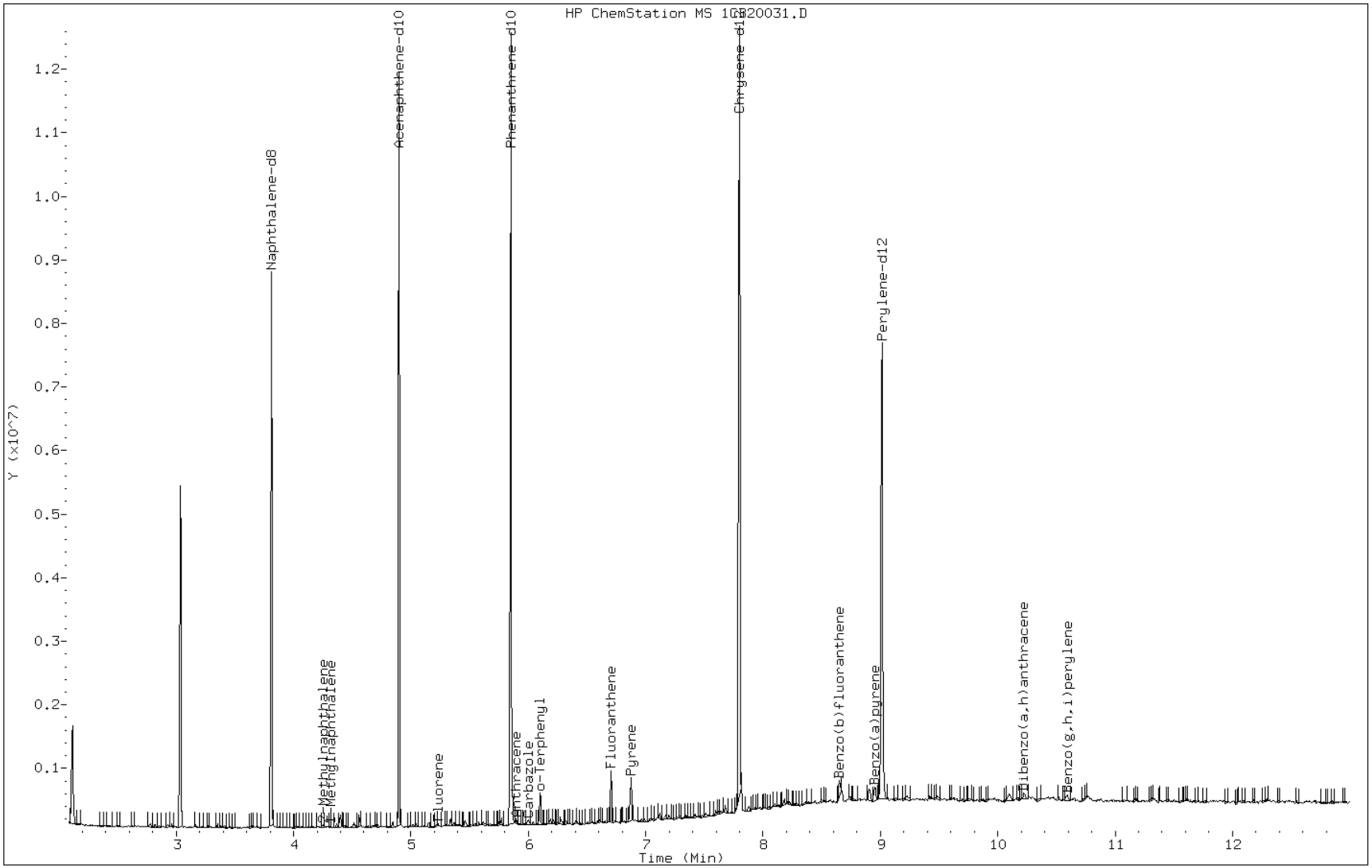
Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a

Operator: SCC



Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

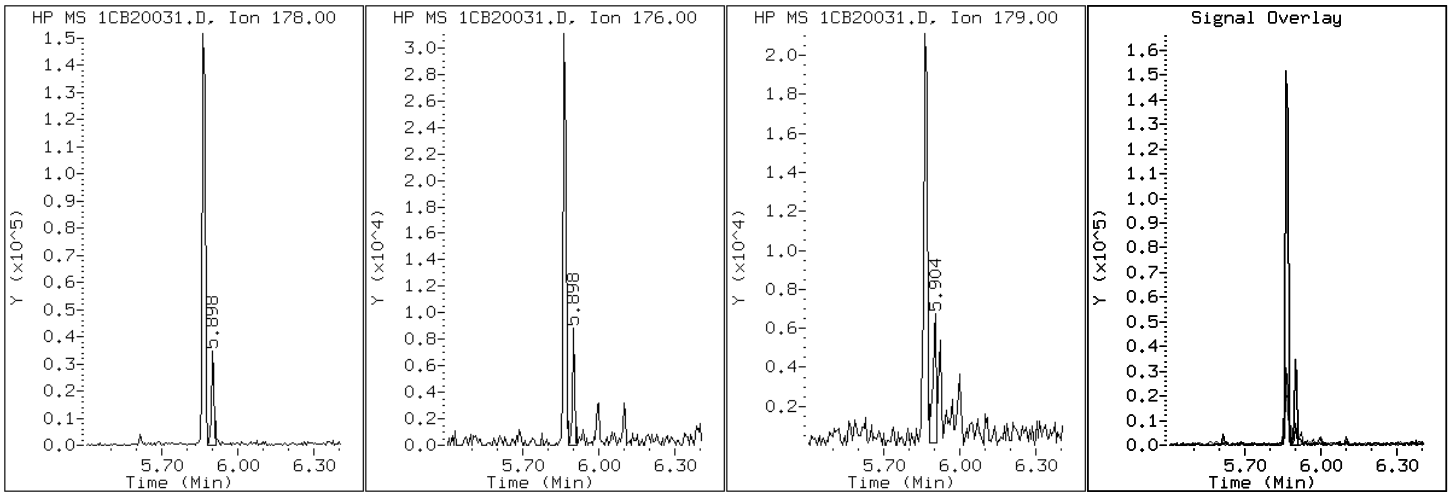
Client ID: CV0971O-CS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a

Operator: SCC

12 Anthracene



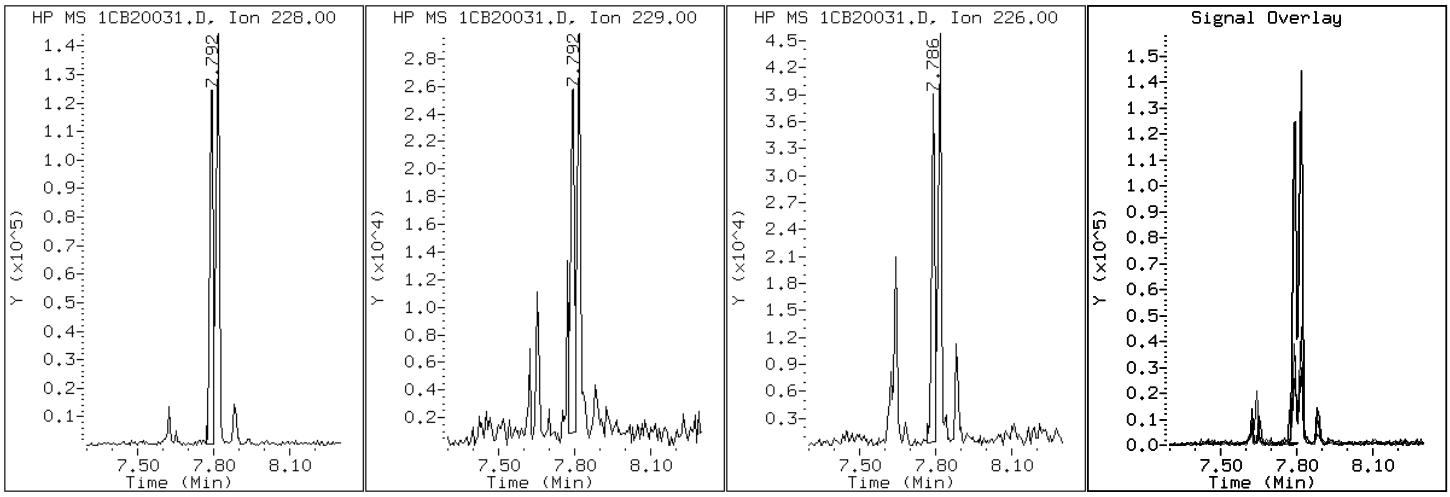
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

17 Benzo(a)anthracene



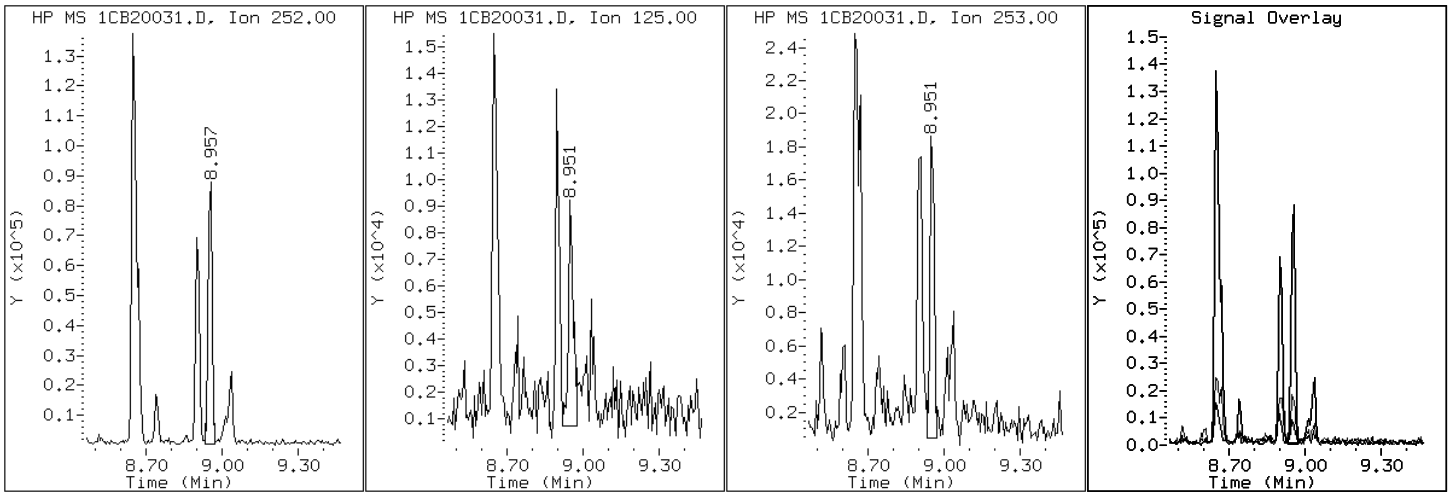
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

22 Benzo(a)pyrene



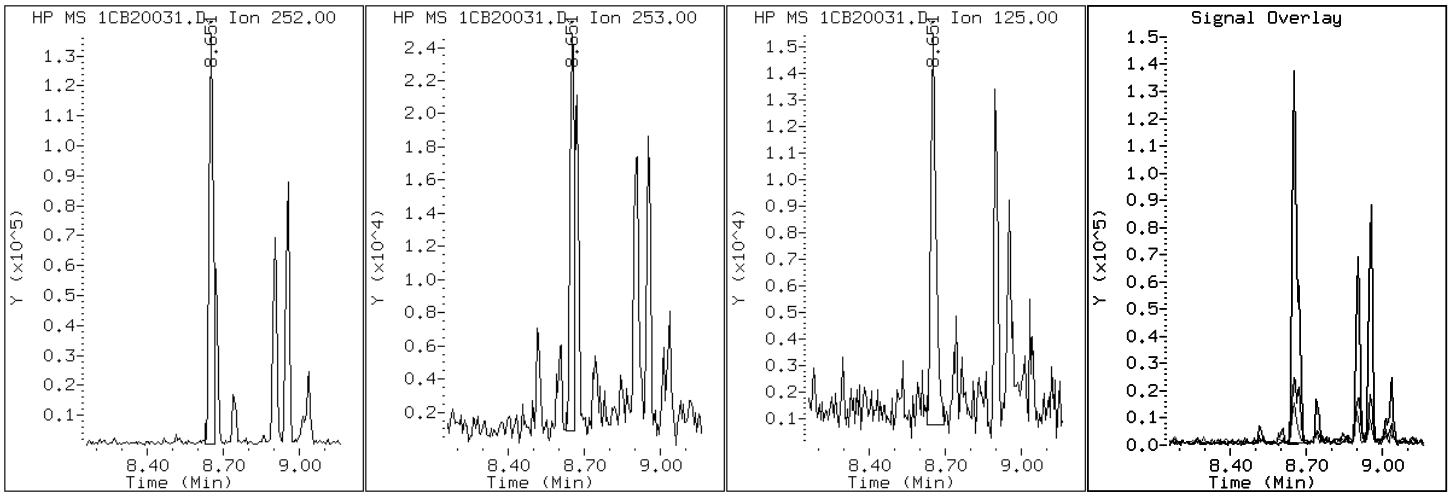
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

20 Benzo(b)fluoranthene



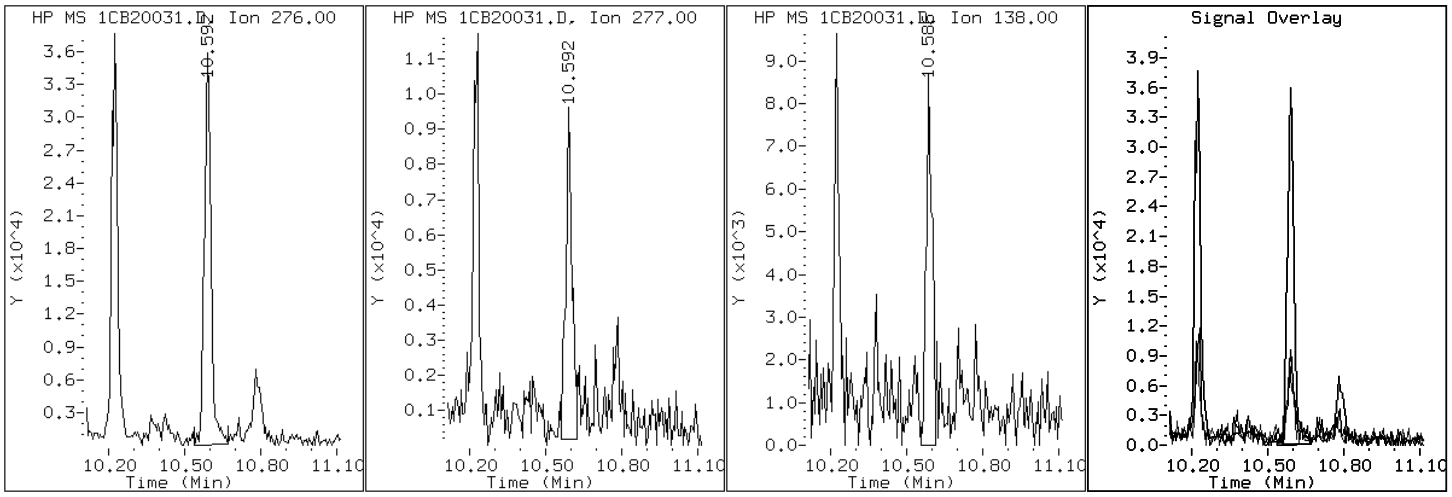
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

26 Benzo(g,h,i)perylene



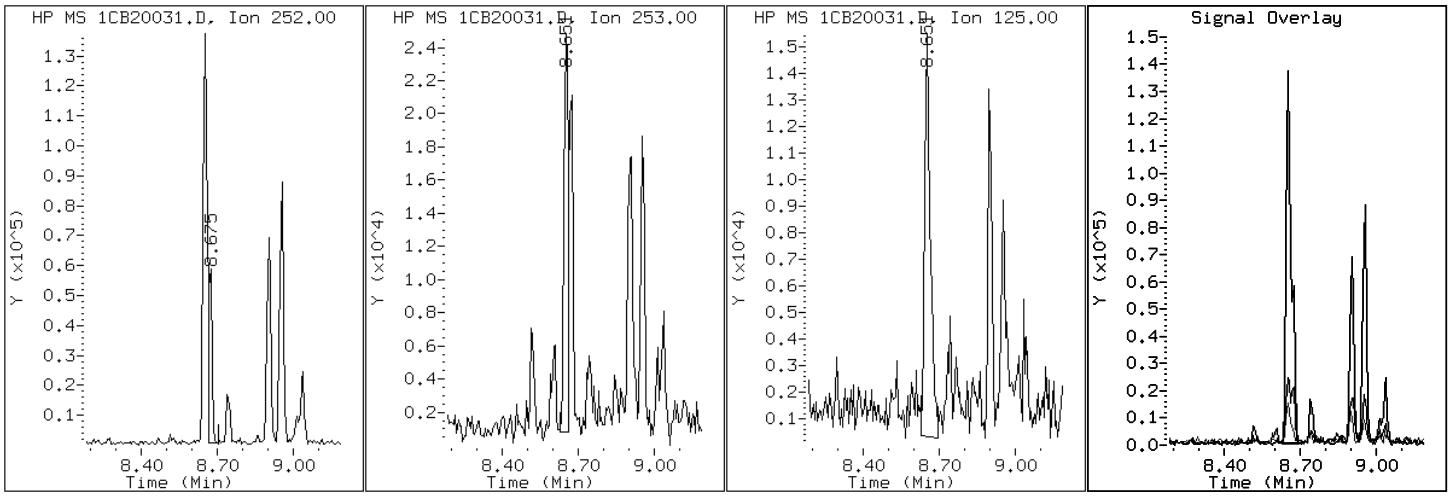
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

21 Benzo(k)fluoranthene



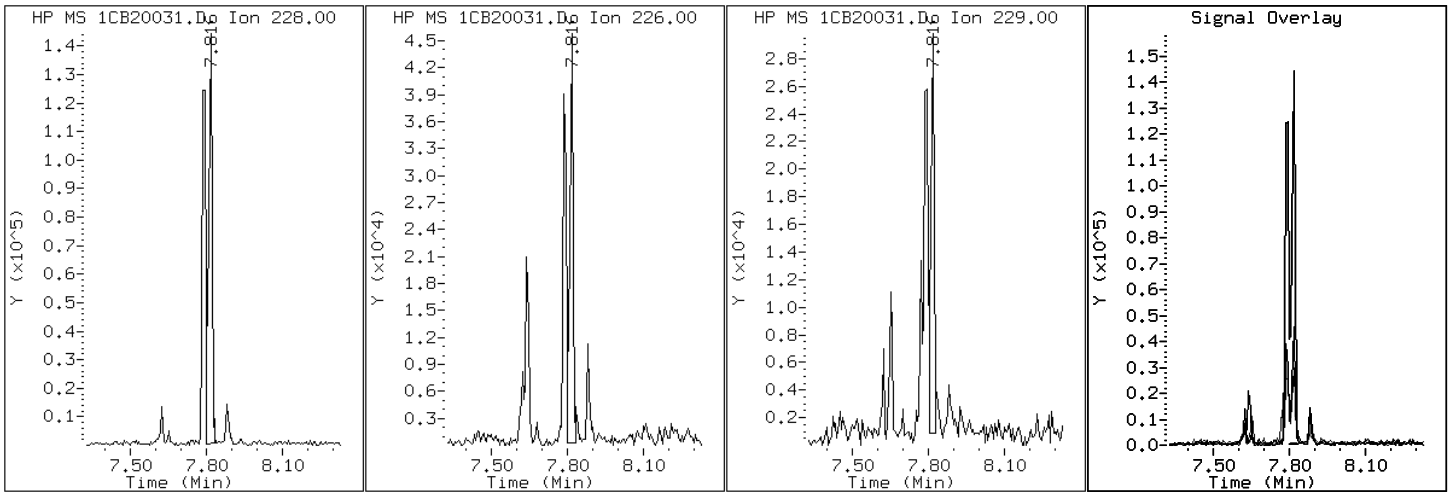
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

19 Chrysene



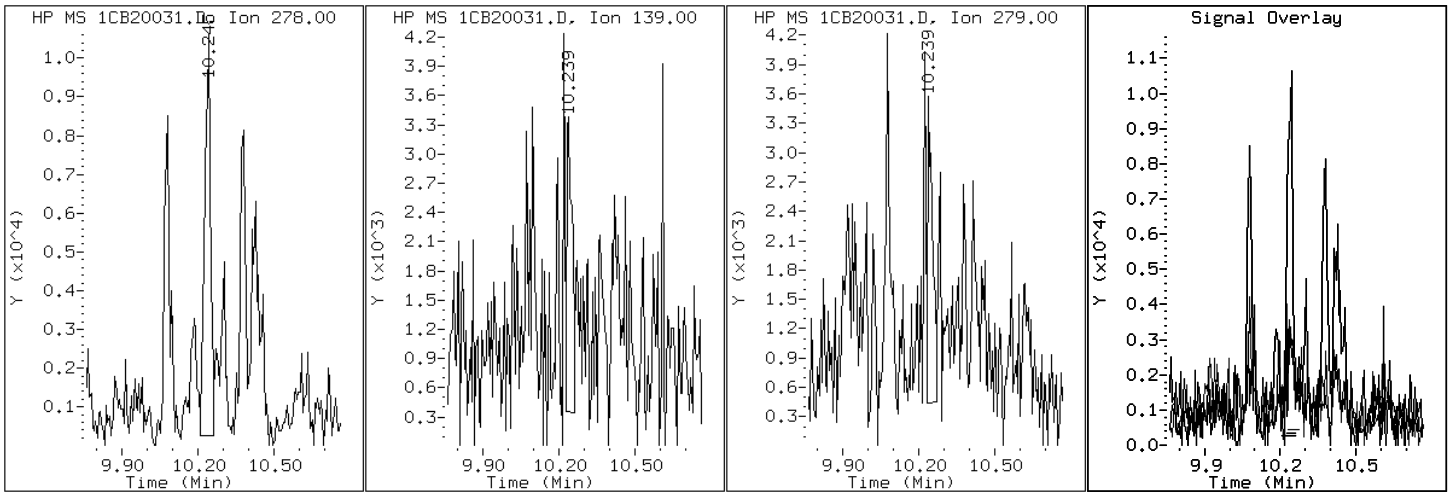
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

25 Dibenzo(a,h)anthracene



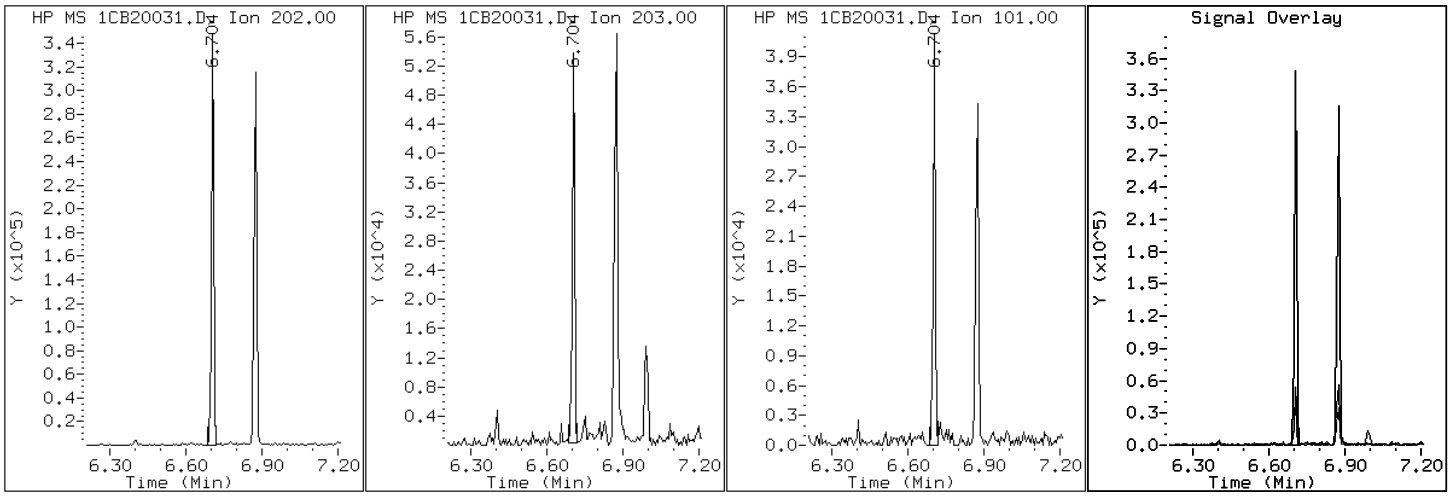
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

15 Fluoranthene



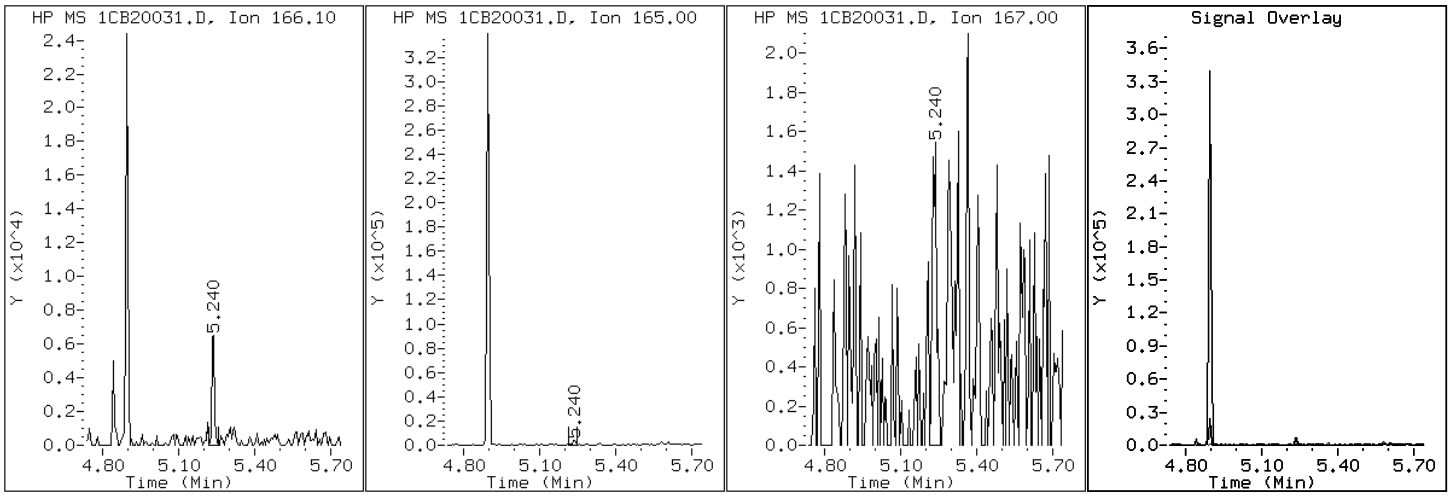
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

9 Fluorene



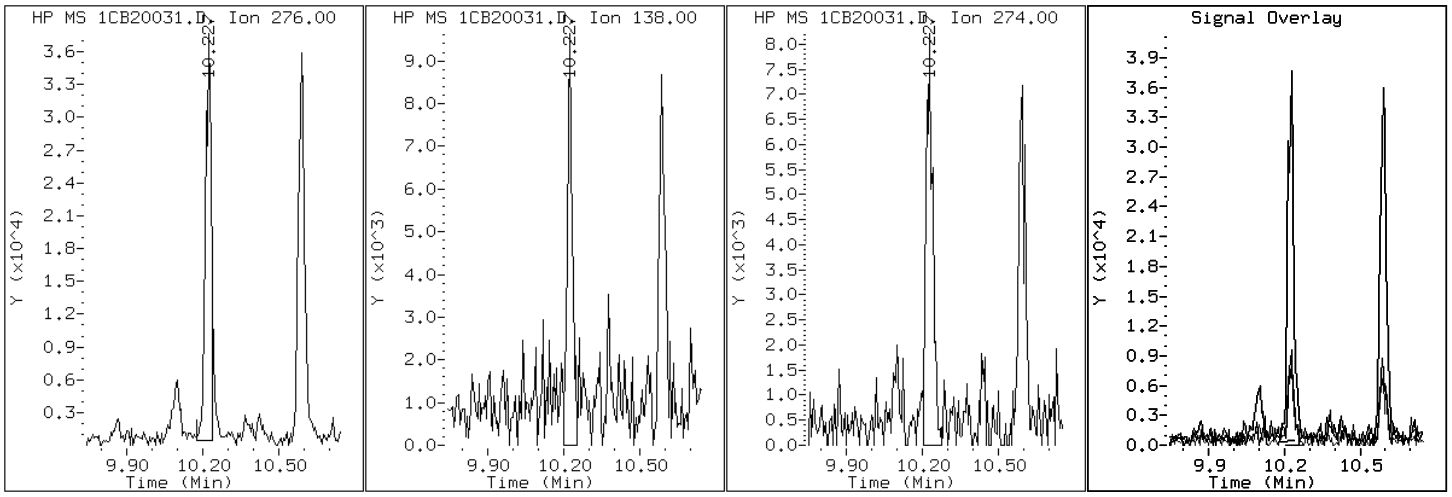
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

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



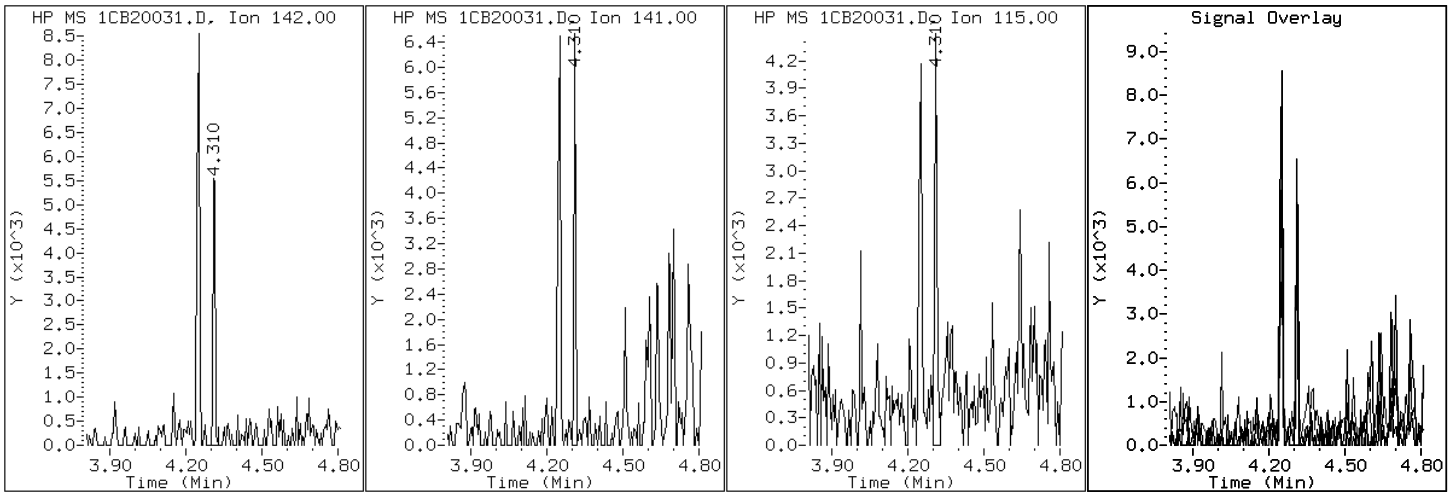
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

4 1-Methylnaphthalene



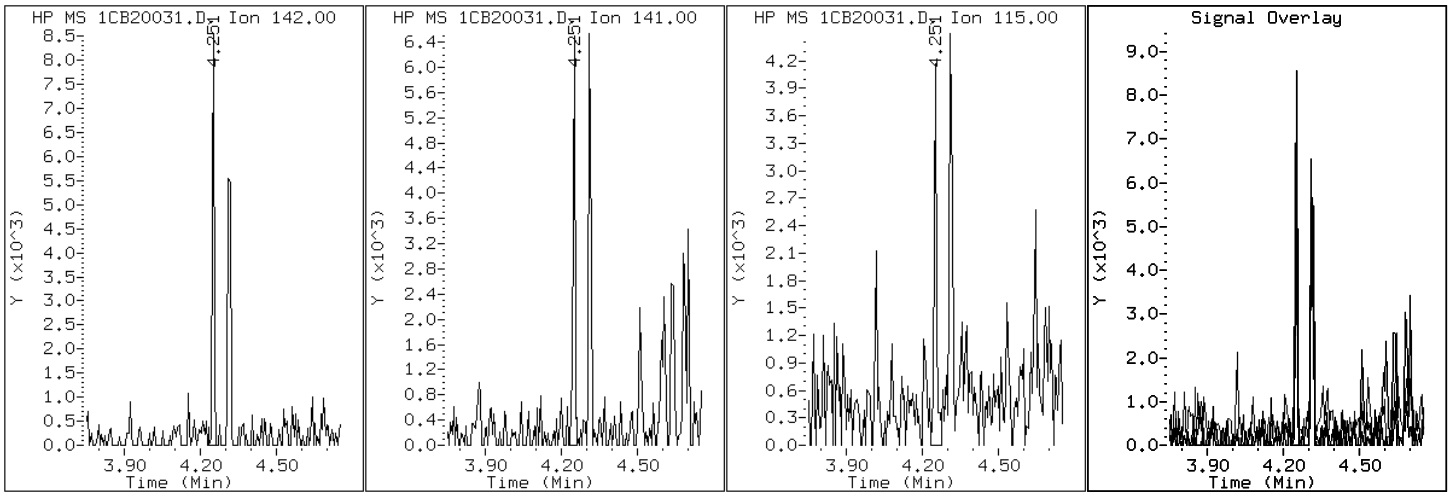
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

3 2-Methylnaphthalene



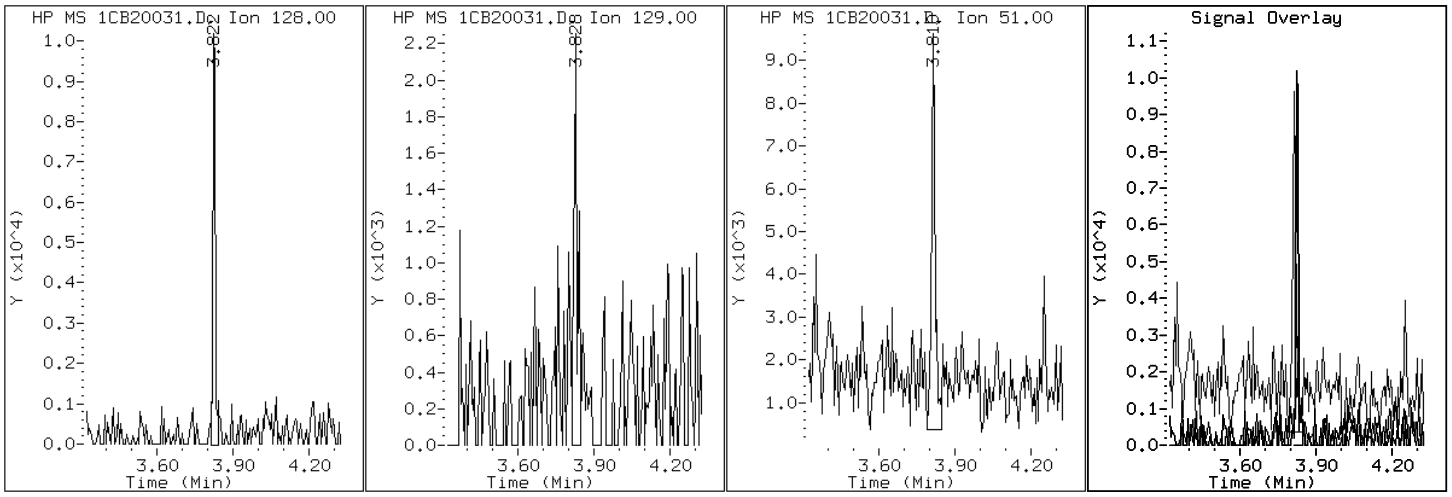
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

2 Naphthalene



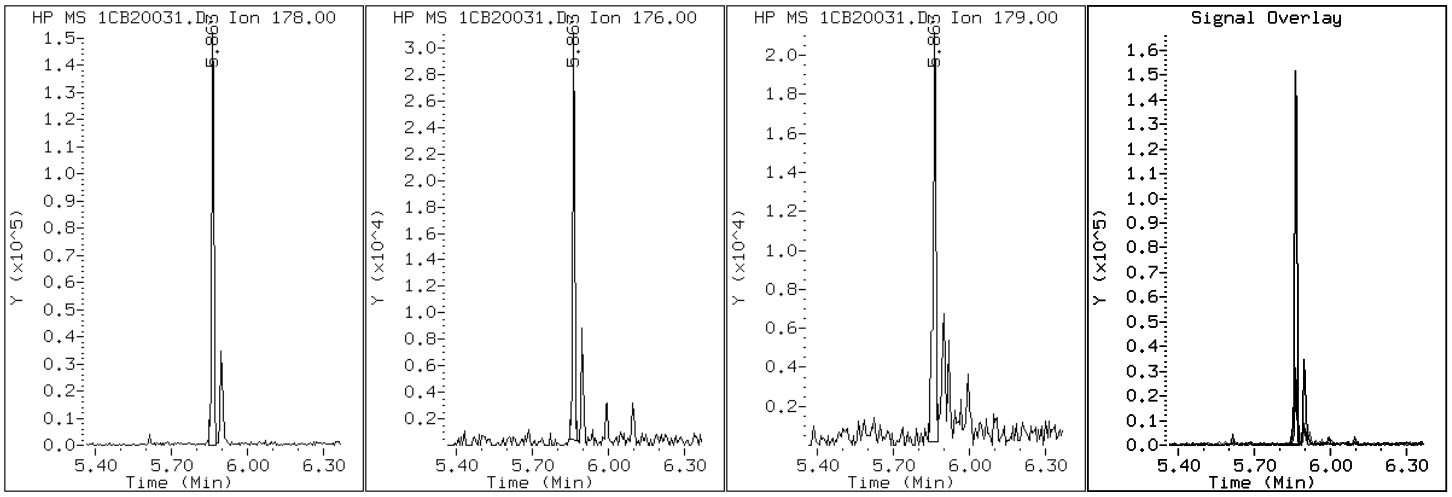
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

11 Phenanthrene



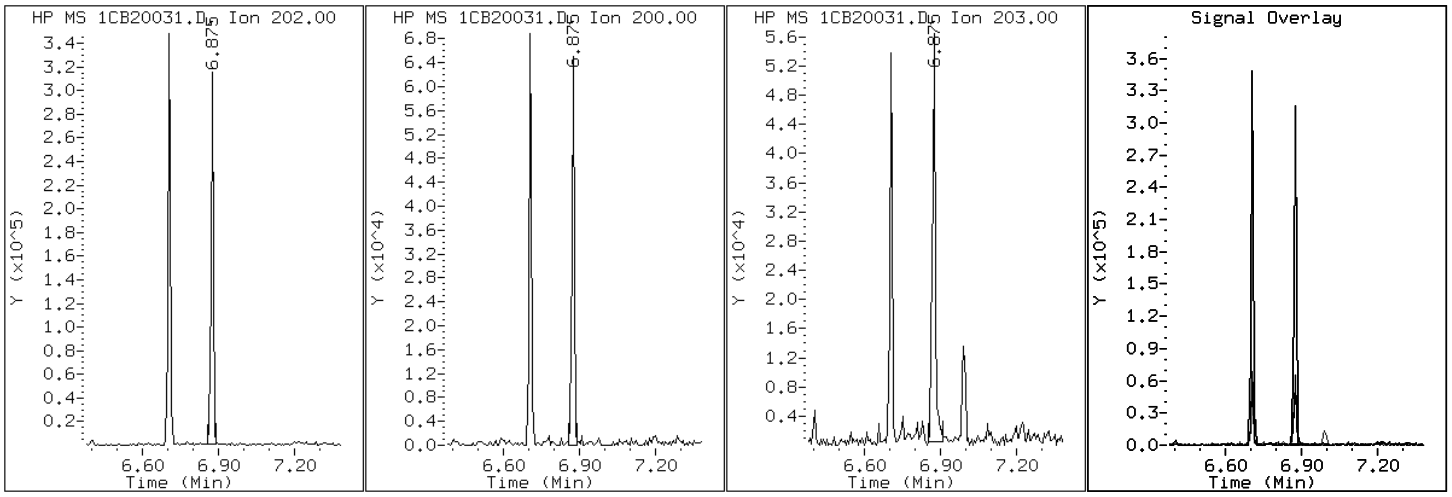
Data File: 1CB20031.D

Date: 20-FEB-2013 22:52

Client ID: CV0971O-CS Instrument: BSMC5973.i

Sample Info: 680-87447-a-16-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20031.D
Inj. Date and Time: 20-FEB-2013 22:52
Instrument ID: BSMC5973.i
Client ID: CV0971O-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

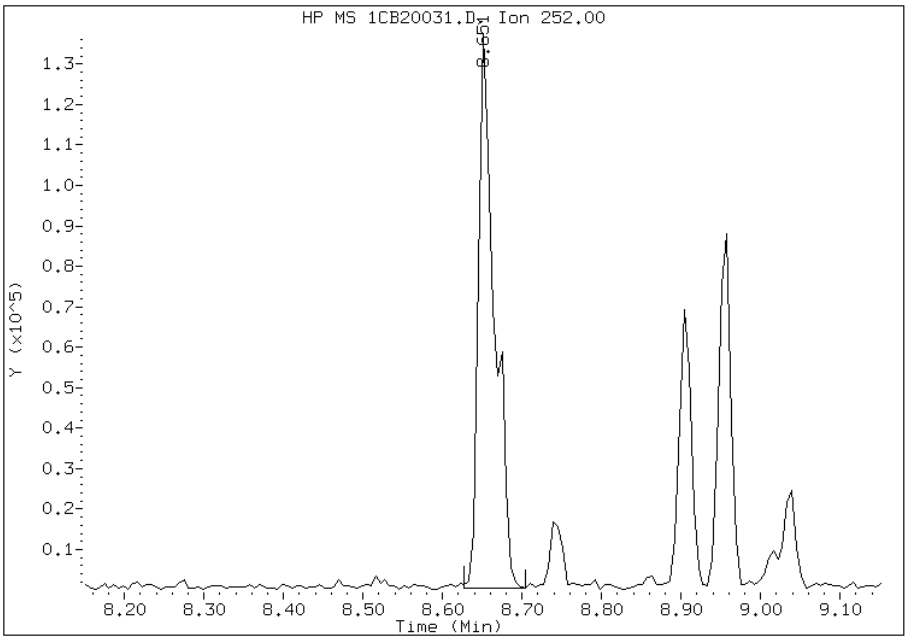
Processing Integration Results

RT: 8.65

Response: 194728

Amount: 3

Conc: 1105



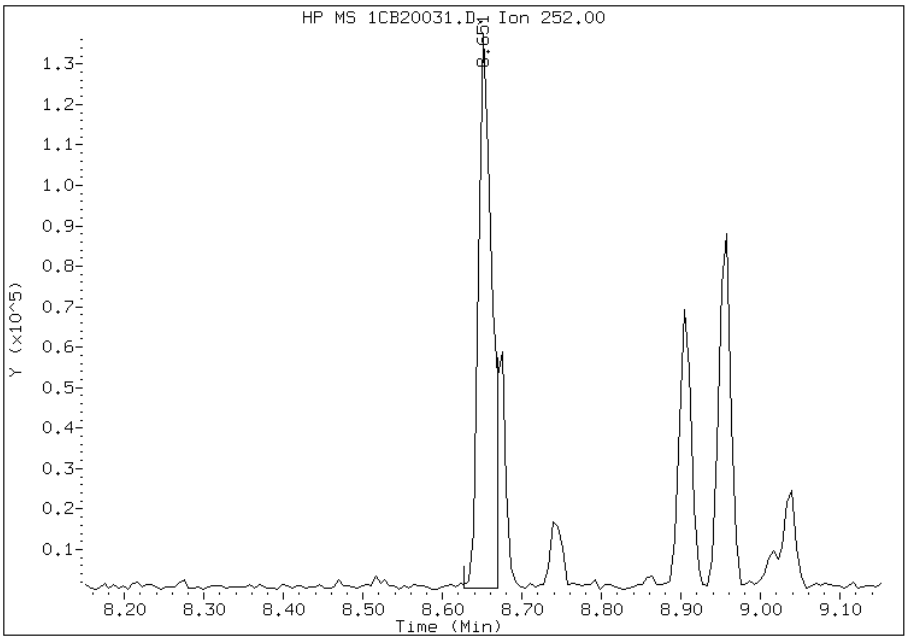
Manual Integration Results

RT: 8.65

Response: 163047

Amount: 2

Conc: 925



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20031.D
Inj. Date and Time: 20-FEB-2013 22:52
Instrument ID: BSMC5973.i
Client ID: CV0971O-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/21/2013

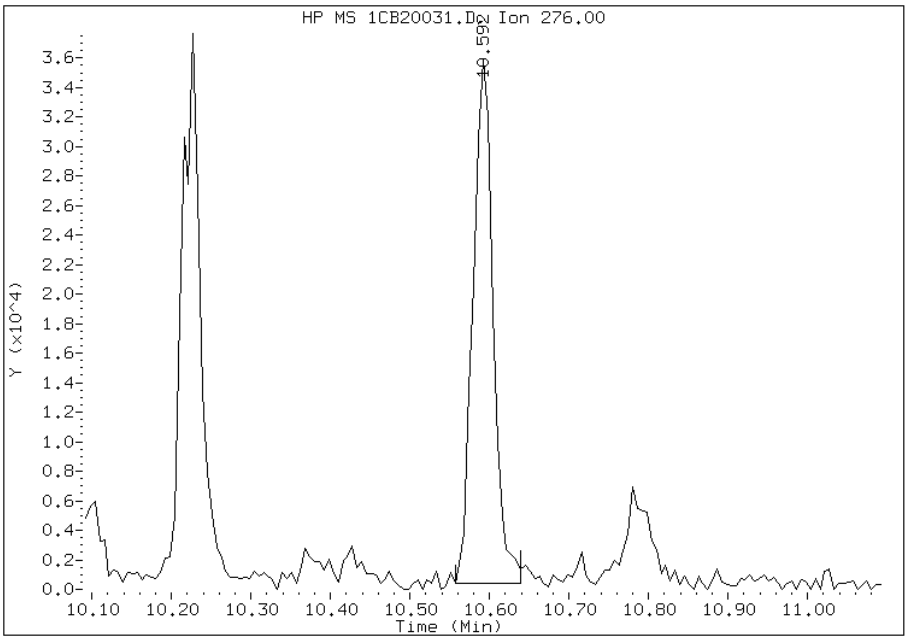
Processing Integration Results

RT: 10.59

Response: 61863

Amount: 1

Conc: 378



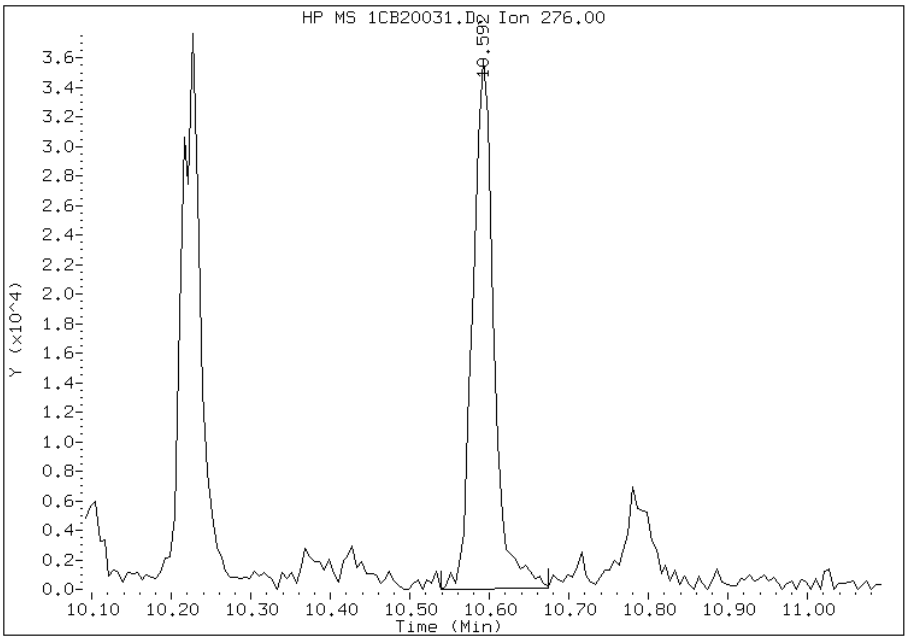
Manual Integration Results

RT: 10.59

Response: 65651

Amount: 1

Conc: 401



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20031.D
Inj. Date and Time: 20-FEB-2013 22:52
Instrument ID: BSMC5973.i
Client ID: CV0971O-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

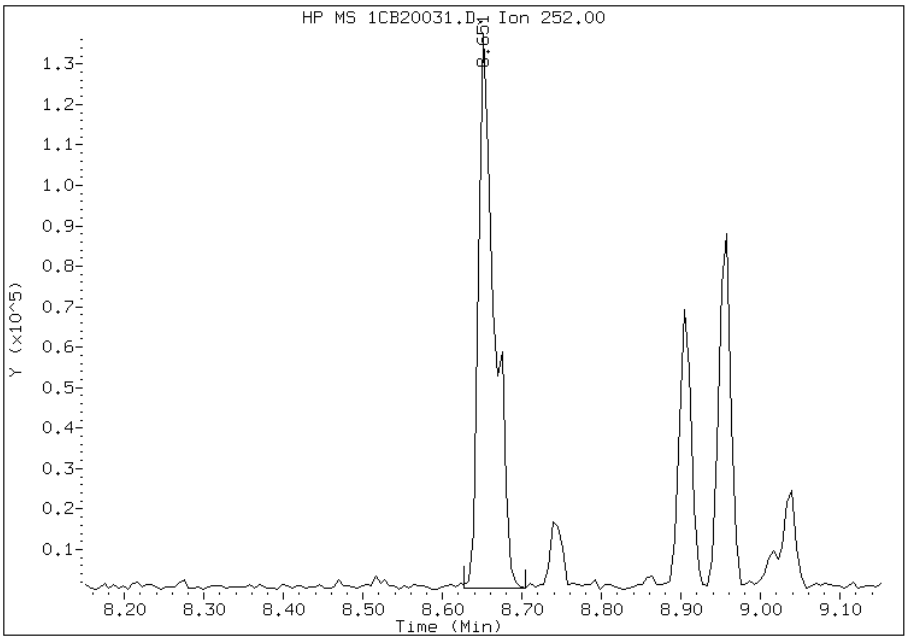
Processing Integration Results

RT: 8.65

Response: 194637

Amount: 2

Conc: 1003



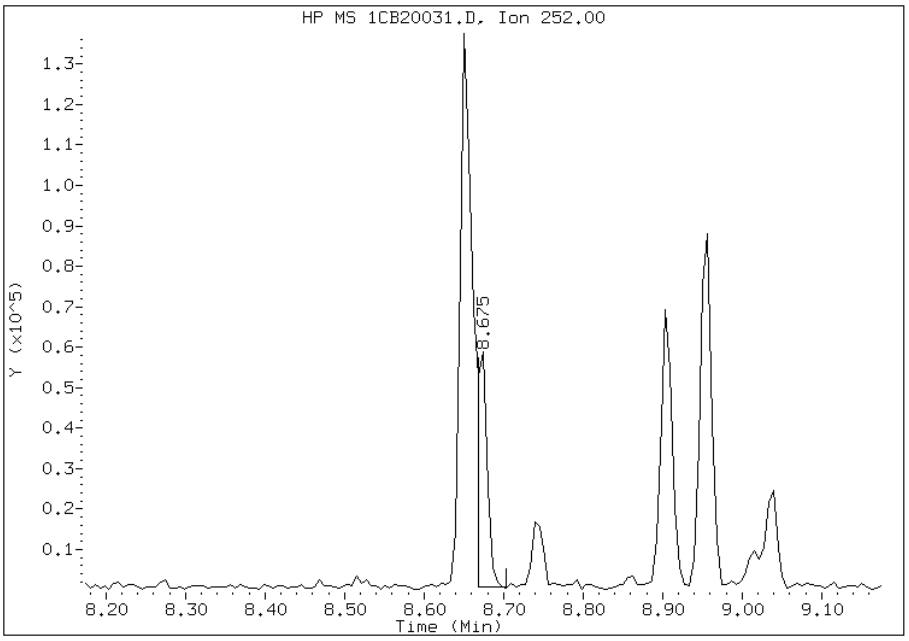
Manual Integration Results

RT: 8.67

Response: 49415

Amount: 1

Conc: 255



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20031.D
Inj. Date and Time: 20-FEB-2013 22:52
Instrument ID: BSMC5973.i
Client ID: CV0971O-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

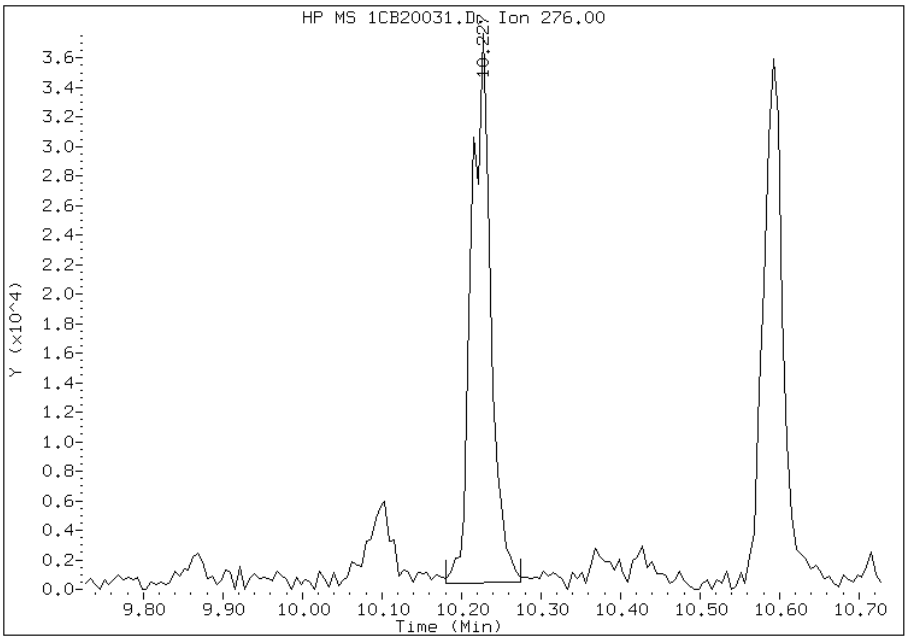
Processing Integration Results

RT: 10.23

Response: 62904

Amount: 1

Conc: 391



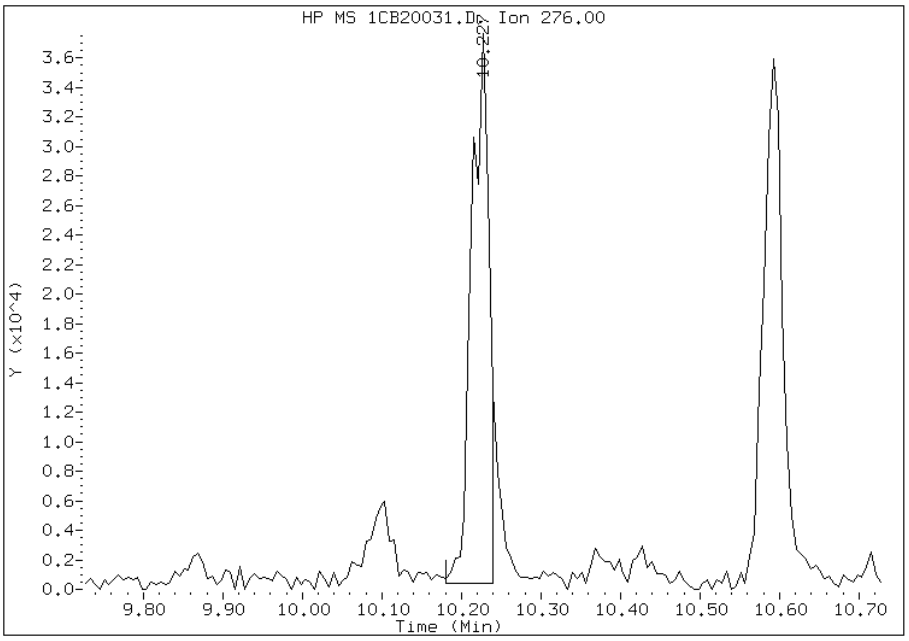
Manual Integration Results

RT: 10.23

Response: 56810

Amount: 1

Conc: 353



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20031.D
Inj. Date and Time: 20-FEB-2013 22:52
Instrument ID: BSMC5973.i
Client ID: CV0971O-CS
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 02/21/2013

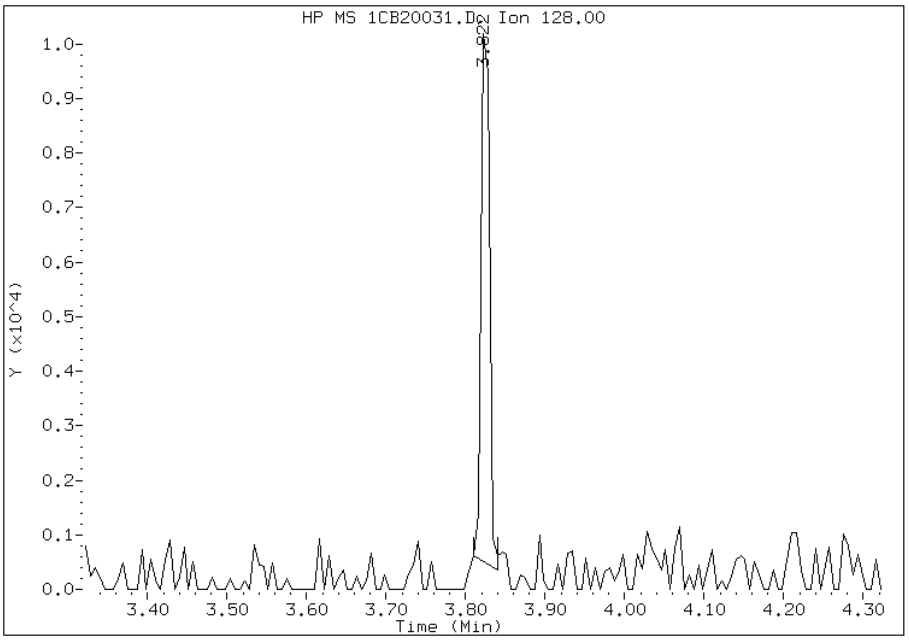
Processing Integration Results

RT: 3.82

Response: 7176

Amount: 0

Conc: 54



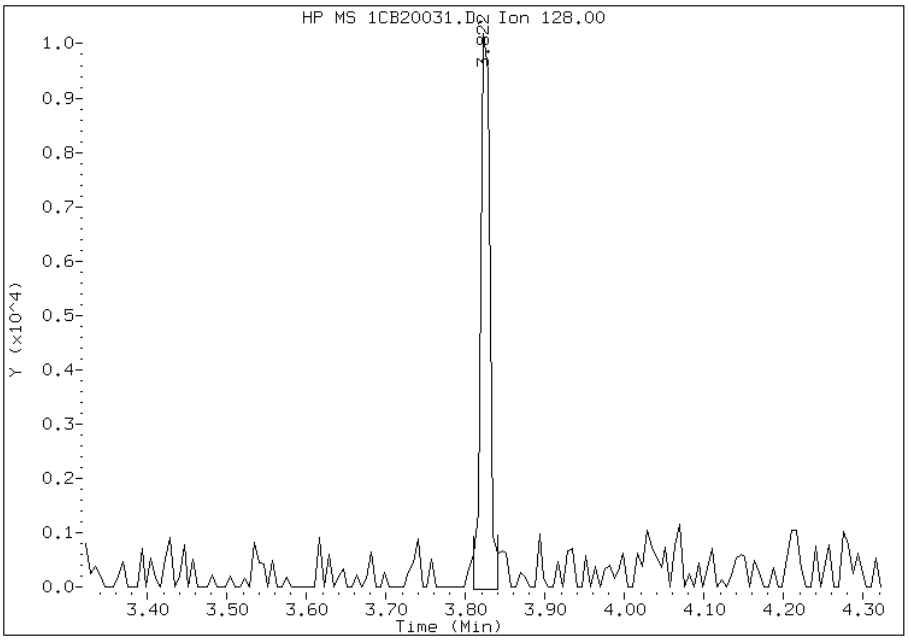
Manual Integration Results

RT: 3.82

Response: 8277

Amount: 0

Conc: 63



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:51
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971O-CSD | Lab Sample ID: 680-87447-17

Matrix: Solid | Lab File ID: 1CB20032.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 10:31

Extract. Method: 3546 | Date Extracted: 02/19/2013 14:49

Sample wt/vol: 15.37(g) | Date Analyzed: 02/20/2013 23:10

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

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

% Moisture: 36.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	620	U	620	120
208-96-8	Acenaphthylene	37	J	250	31
120-12-7	Anthracene	270		52	26
56-55-3	Benzo[a]anthracene	1200		49	24
50-32-8	Benzo[a]pyrene	1200		64	32
205-99-2	Benzo[b]fluoranthene	1700		75	38
191-24-2	Benzo[g,h,i]perylene	730		120	27
207-08-9	Benzo[k]fluoranthene	590		49	22
218-01-9	Chrysene	1100		56	28
53-70-3	Dibenz(a,h)anthracene	190		120	25
206-44-0	Fluoranthene	2500		120	25
86-73-7	Fluorene	50	J	120	25
193-39-5	Indeno[1,2,3-cd]pyrene	570		120	44
90-12-0	1-Methylnaphthalene	83	J	250	27
91-57-6	2-Methylnaphthalene	88	J	250	44
91-20-3	Naphthalene	79	J	250	27
85-01-8	Phenanthrene	980		49	24
129-00-0	Pyrene	2100		120	23

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20032.D
Lab Smp Id: 680-87447-A-17-A Client Smp ID: CV0971O-CSD
Inj Date : 20-FEB-2013 23:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-17-a
Misc Info : 680-87447-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 32
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	15.370	Weight Extracted
M	36.735	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2100706	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1605807	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2951641	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	84562	1.95527	804.3163
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3191368	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3015061	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	10721	0.19260	79.2256(Q)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	7767	0.21459	88.2716
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	6635	0.20155	82.9110
5 Acenaphthylene	152	4.810	4.810	(0.982)	5730	0.08969	36.8952
9 Fluorene	166	5.233	5.239	(1.068)	6199	0.12052	49.5785
11 Phenanthrene	178	5.869	5.869	(1.003)	209883	2.38221	979.9405
12 Anthracene	178	5.898	5.904	(1.008)	51887	0.65366	268.8879
13 Carbazole	167	6.004	6.010	(1.026)	31127	0.45144	185.7034

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.710	(1.146)	513796	5.96810	2455.0306
16 Pyrene	202	6.874	6.880	(0.882)	439122	5.16845	2126.0866
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	257793	2.92925	1204.9733
19 Chrysene	228	7.815	7.827	(1.002)	238393	2.62241	1078.7526
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	304124	4.11426	1692.4366(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	116494	1.43052	588.4563(QMH)
22 Benzo(a)pyrene	252	8.957	8.968	(0.993)	204967	2.91401	1198.7021
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	94181	1.39406	573.4597(M)
25 Dibenzo(a,h)anthracene	278	10.239	10.262	(1.136)	29711	0.46635	191.8390
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	121800	1.77484	730.0936

QC Flag Legend

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

Data File: 1CB20032.D

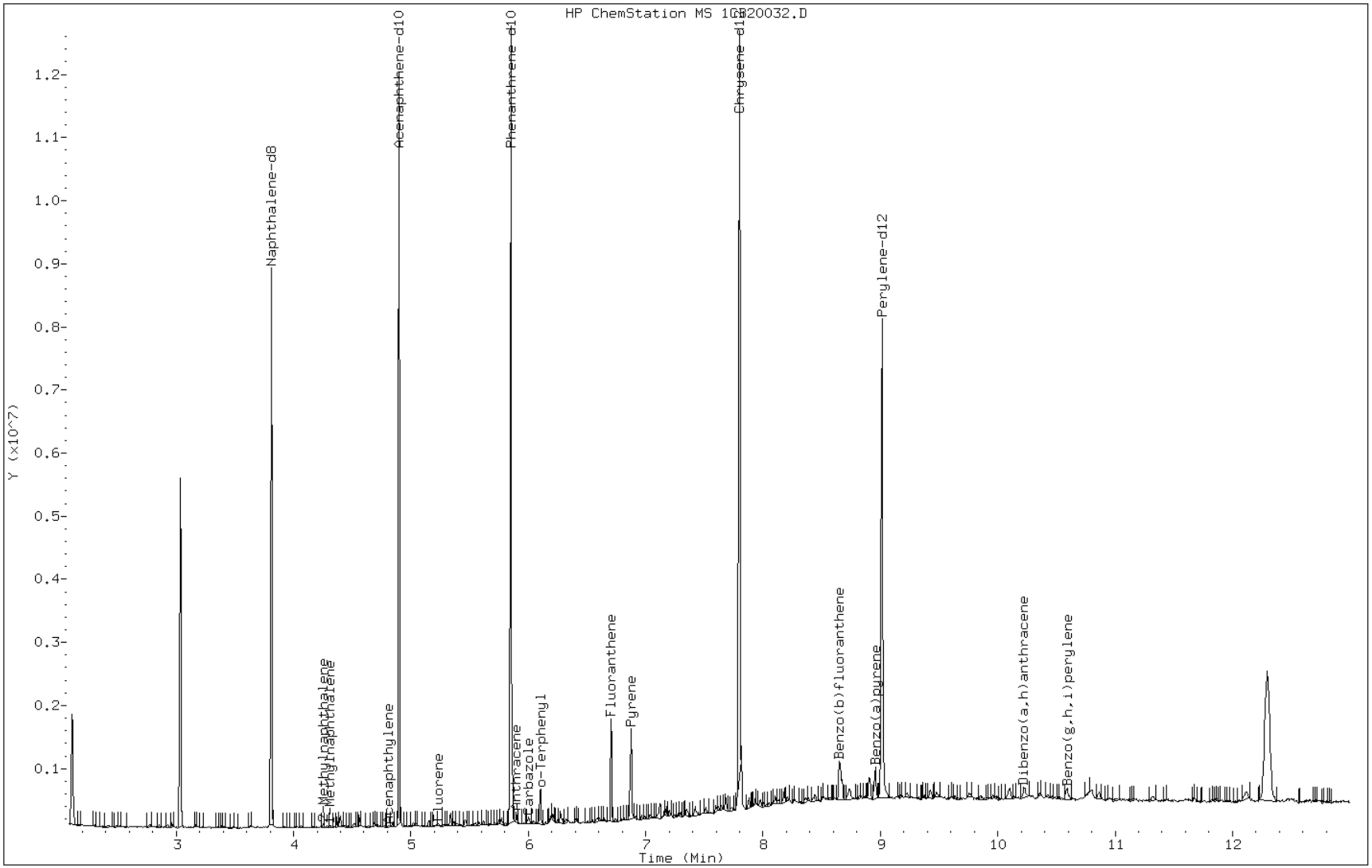
Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD

Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a

Operator: SCC



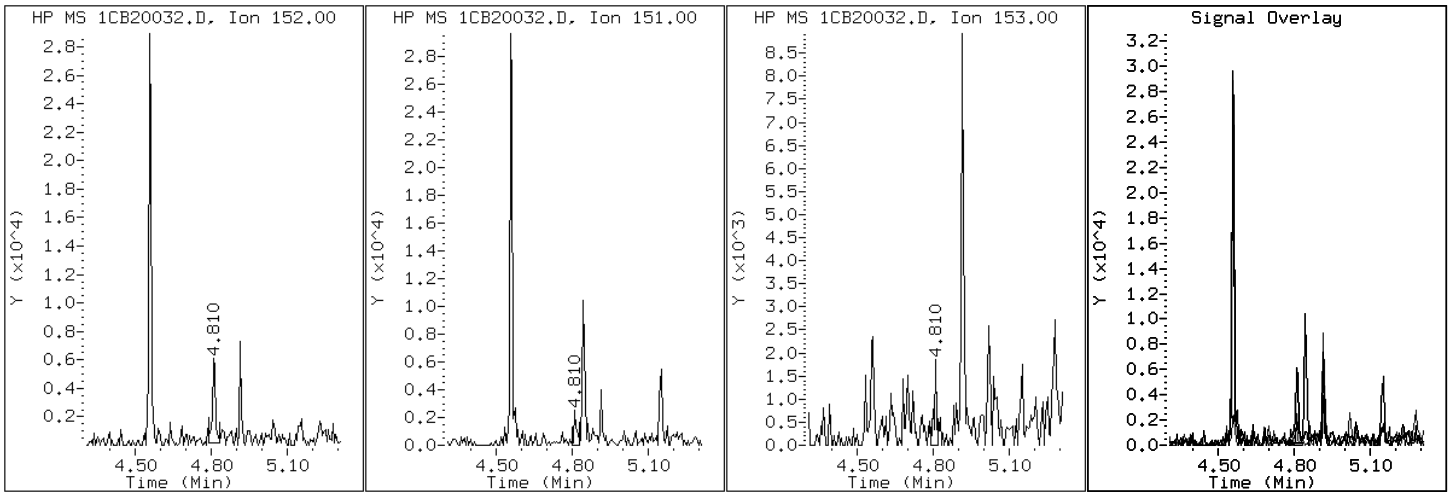
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

5 Acenaphthylene



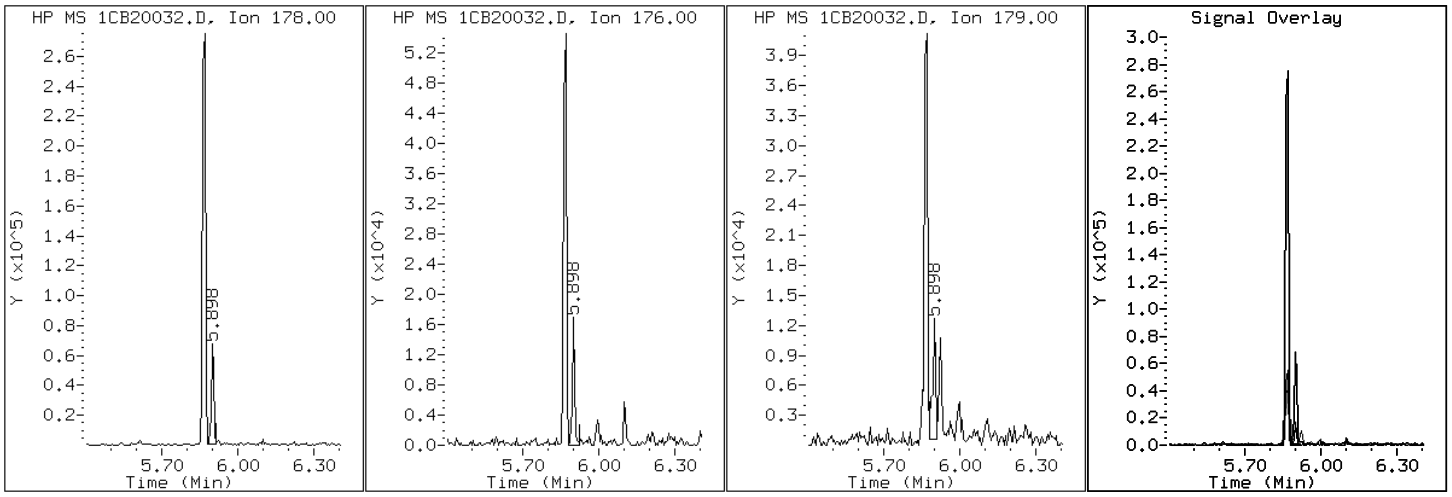
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

12 Anthracene



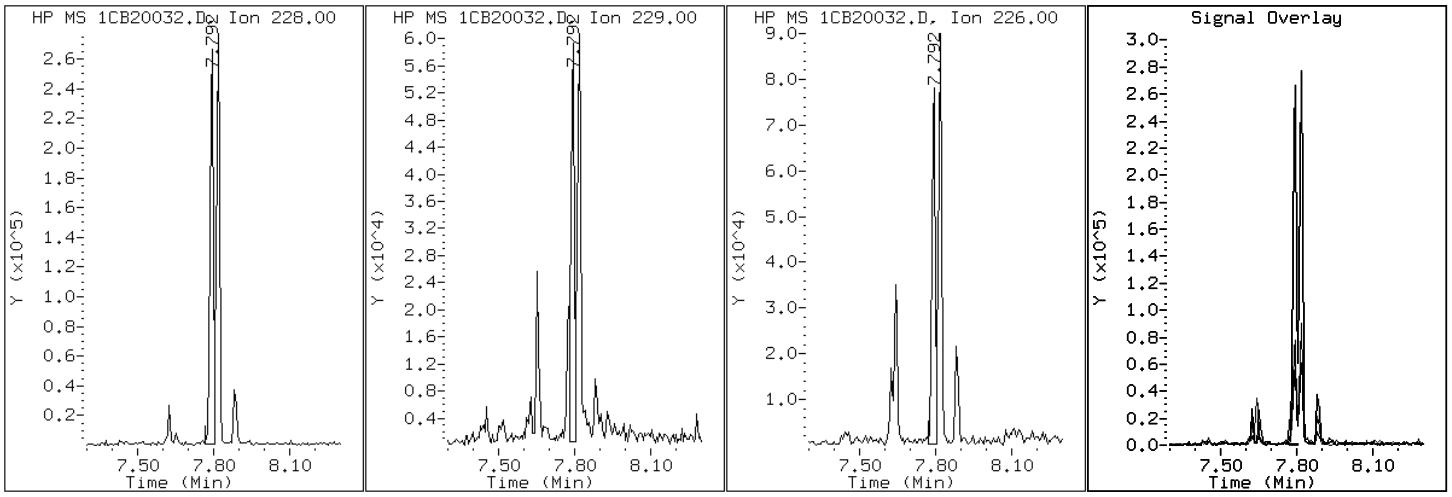
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

17 Benzo(a)anthracene



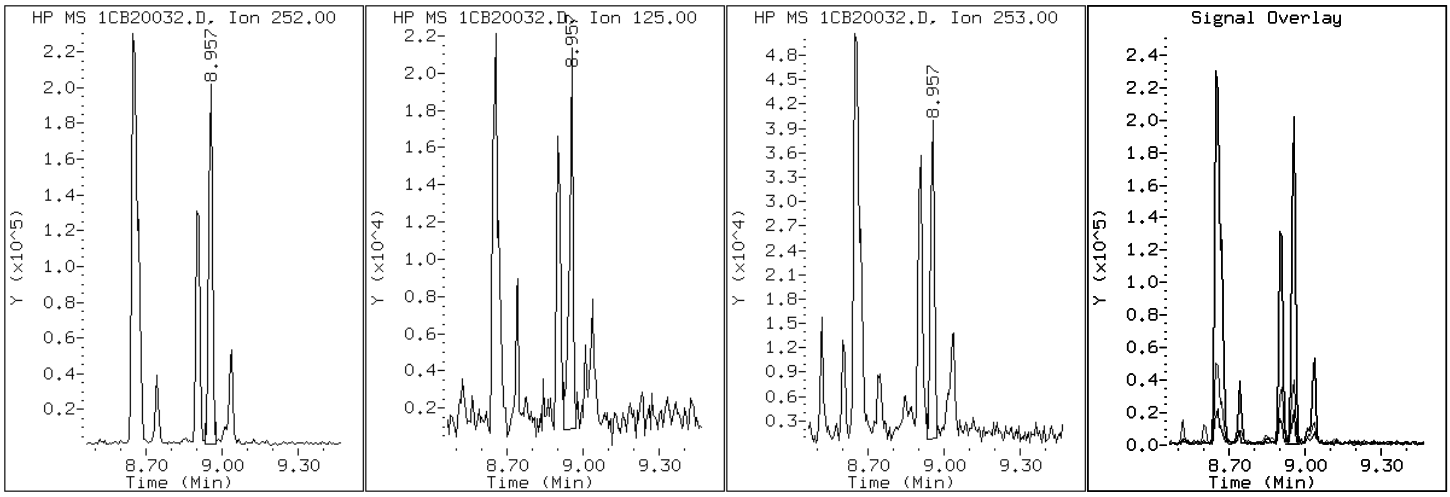
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

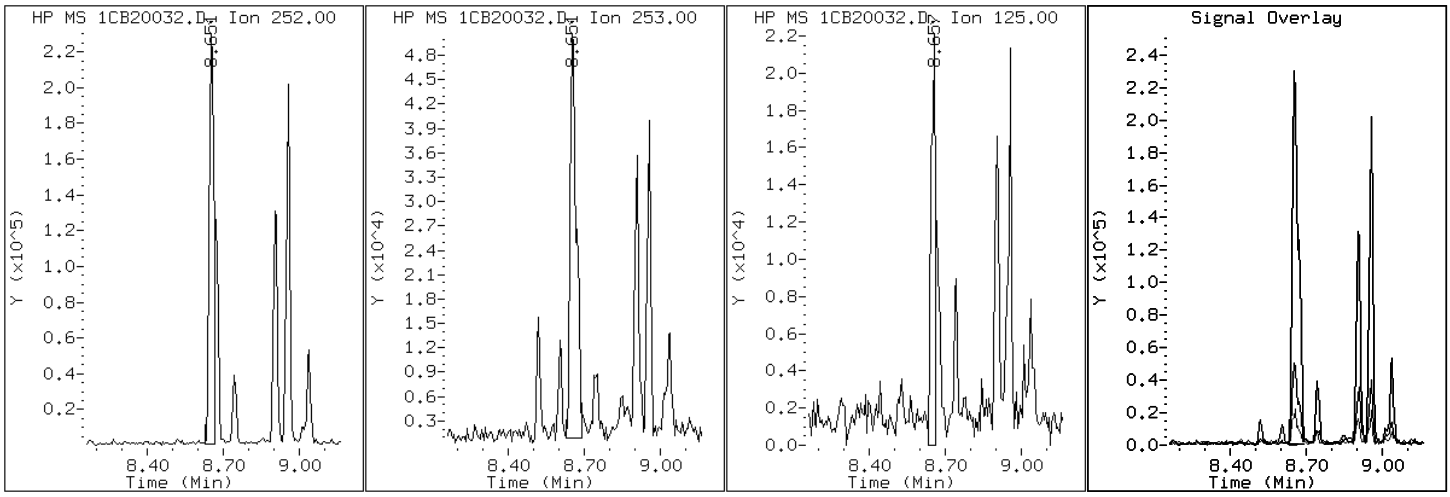
Client ID: CV0971O-CSD

Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a

Operator: SCC

20 Benzo(b)fluoranthene



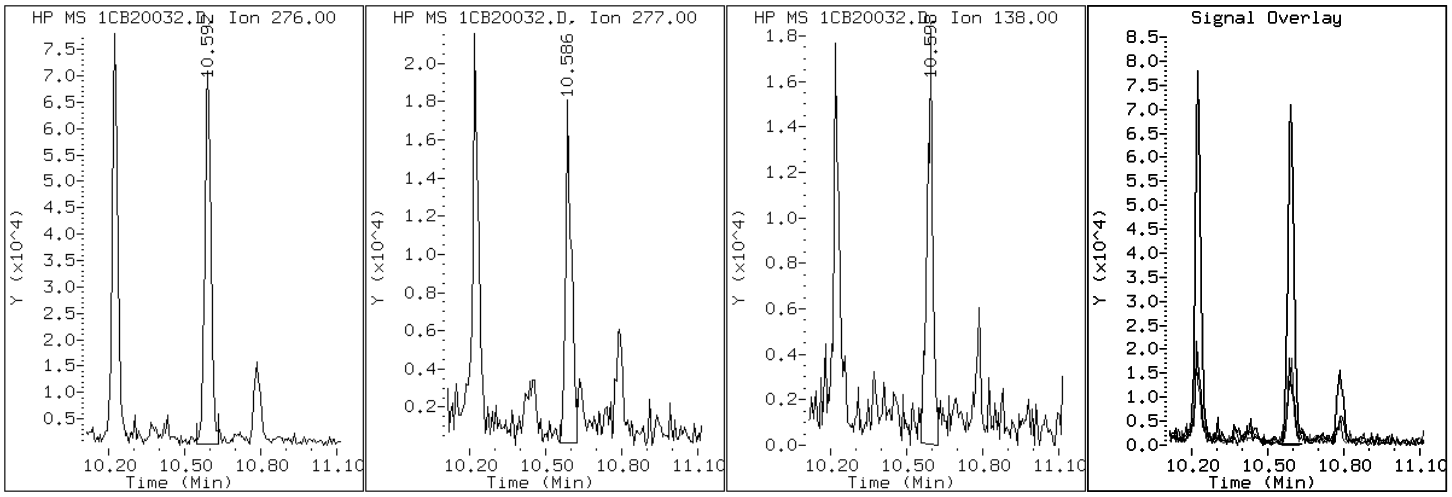
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

26 Benzo(g,h,i)perylene



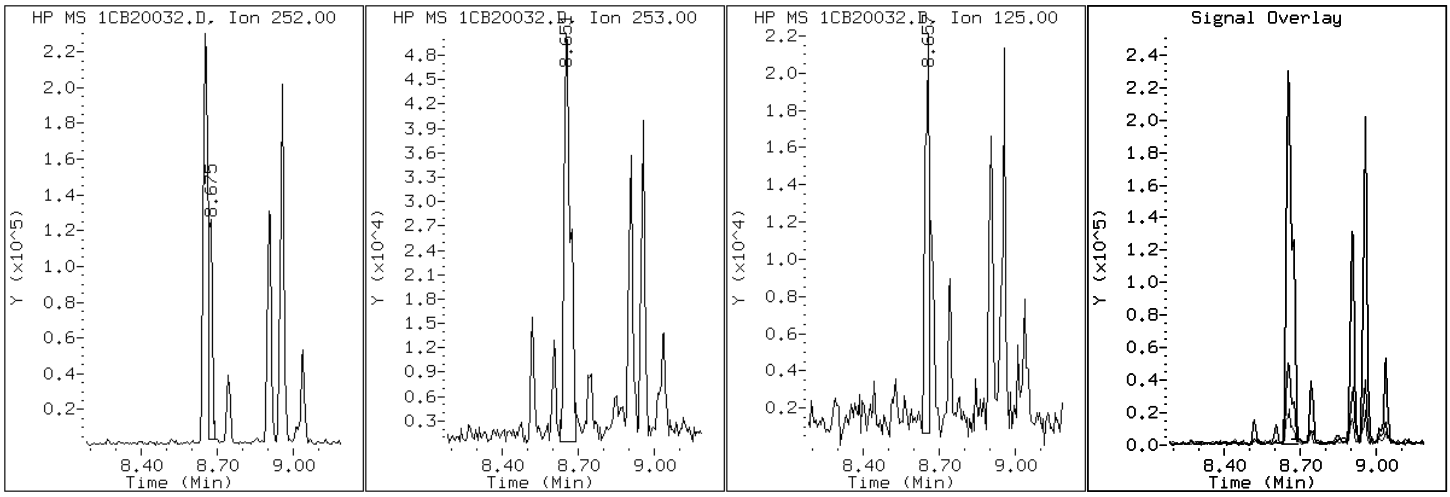
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

21 Benzo(k)fluoranthene



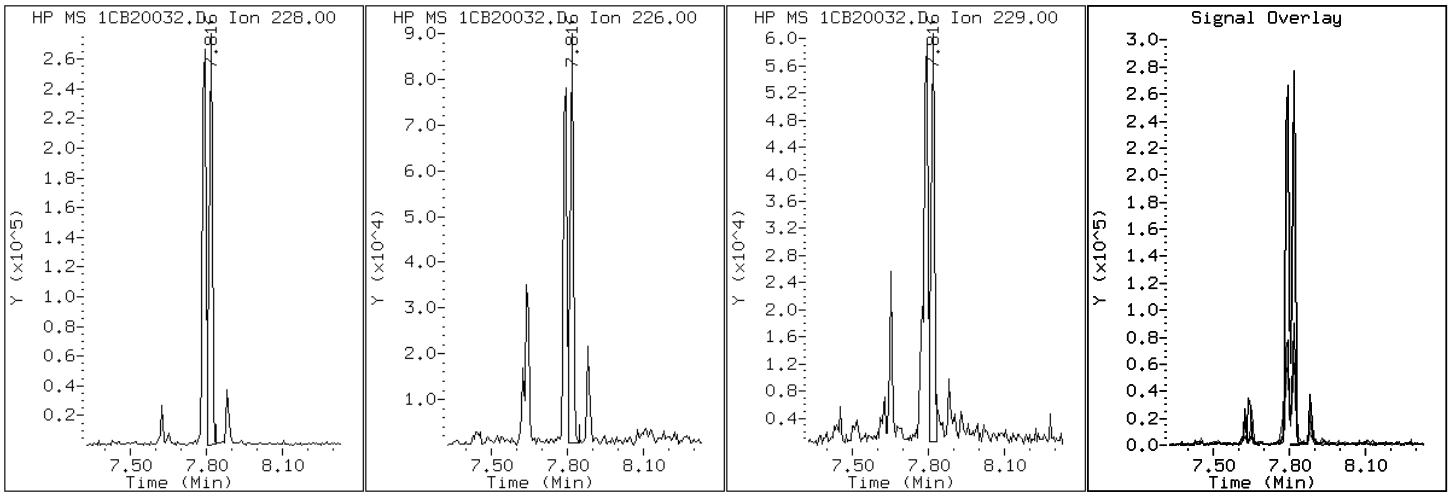
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

19 Chrysene



Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

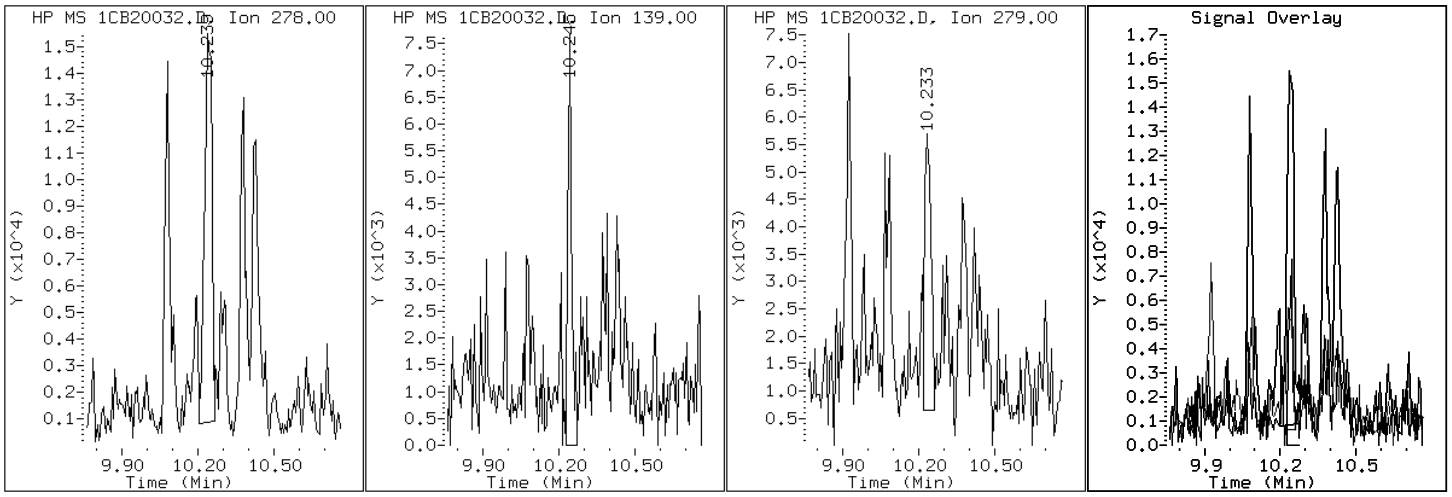
Client ID: CV0971O-CSD

Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a

Operator: SCC

25 Dibenzo(a,h)anthracene



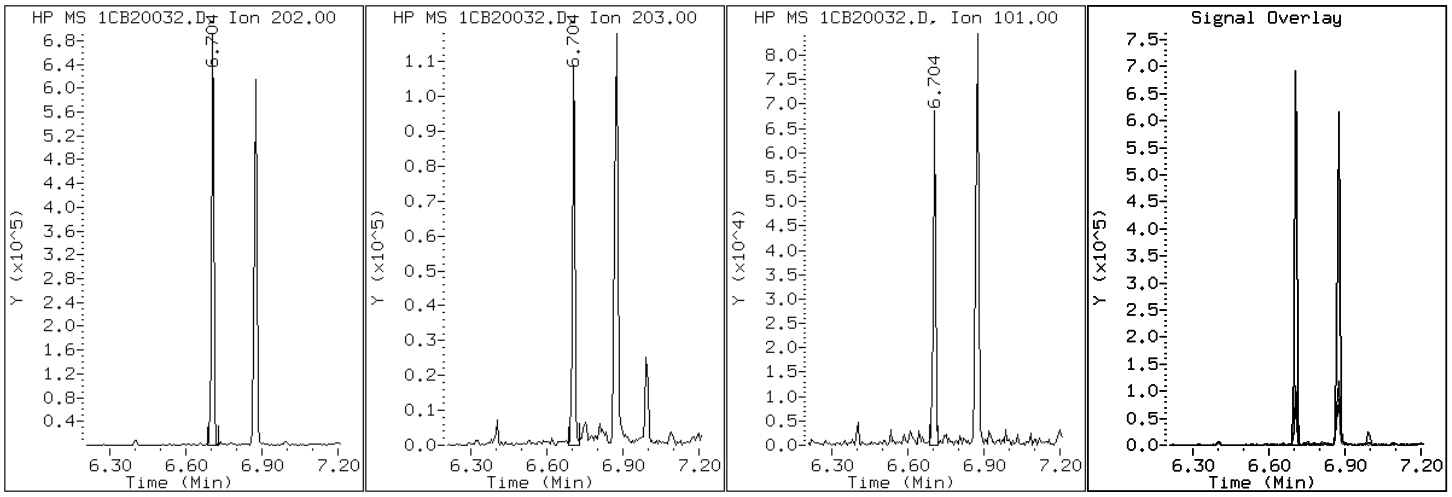
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

15 Fluoranthene



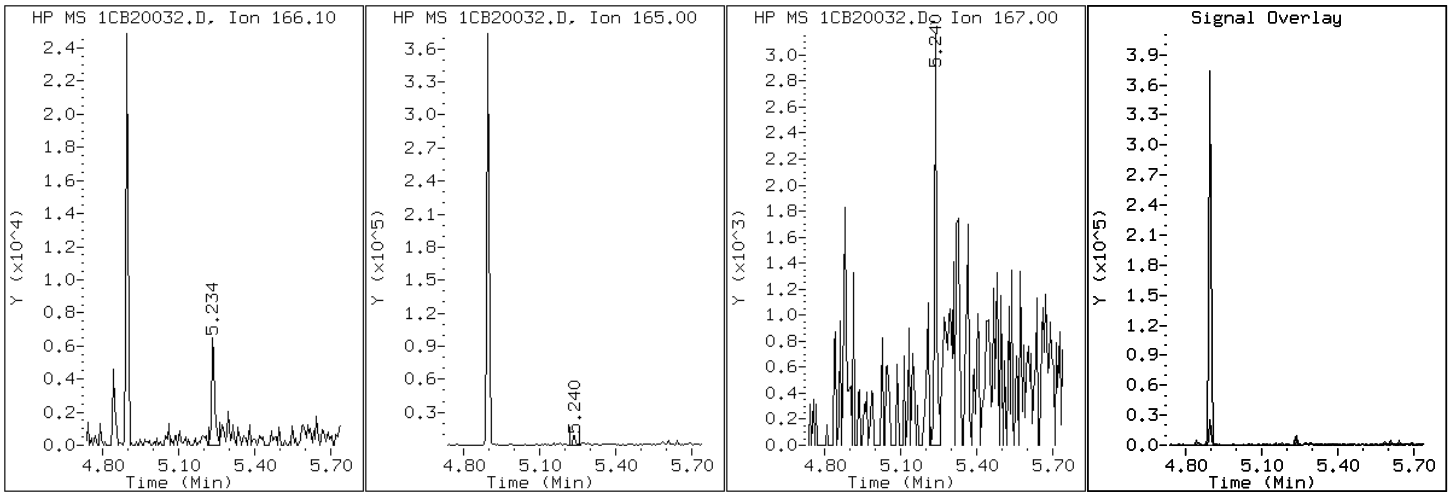
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

9 Fluorene



Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

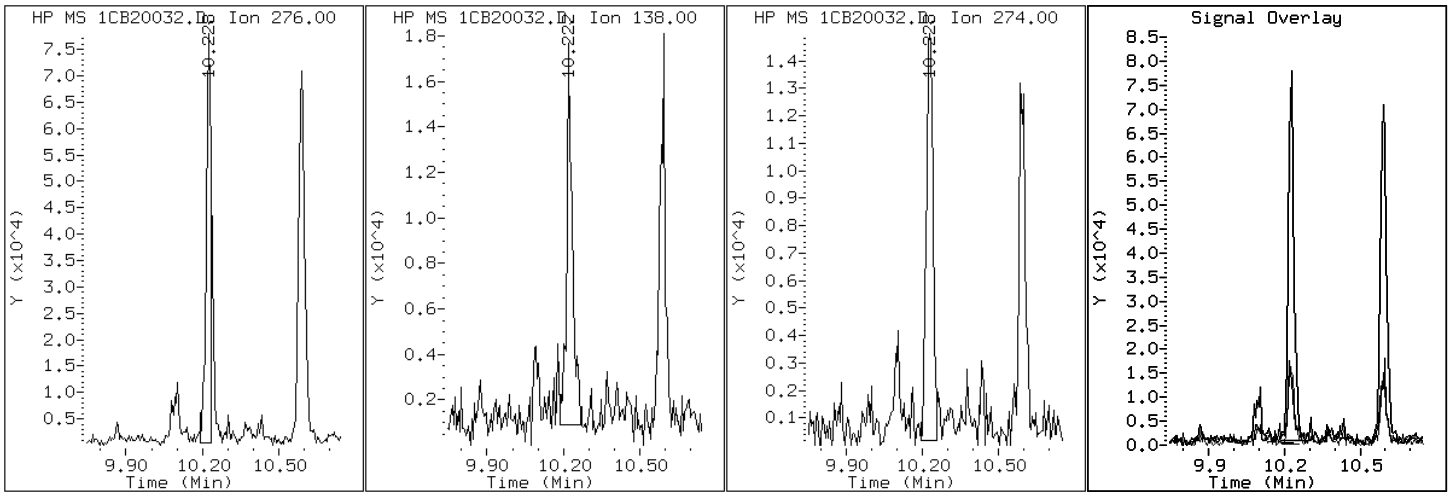
Client ID: CV0971O-CSD

Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a

Operator: SCC

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



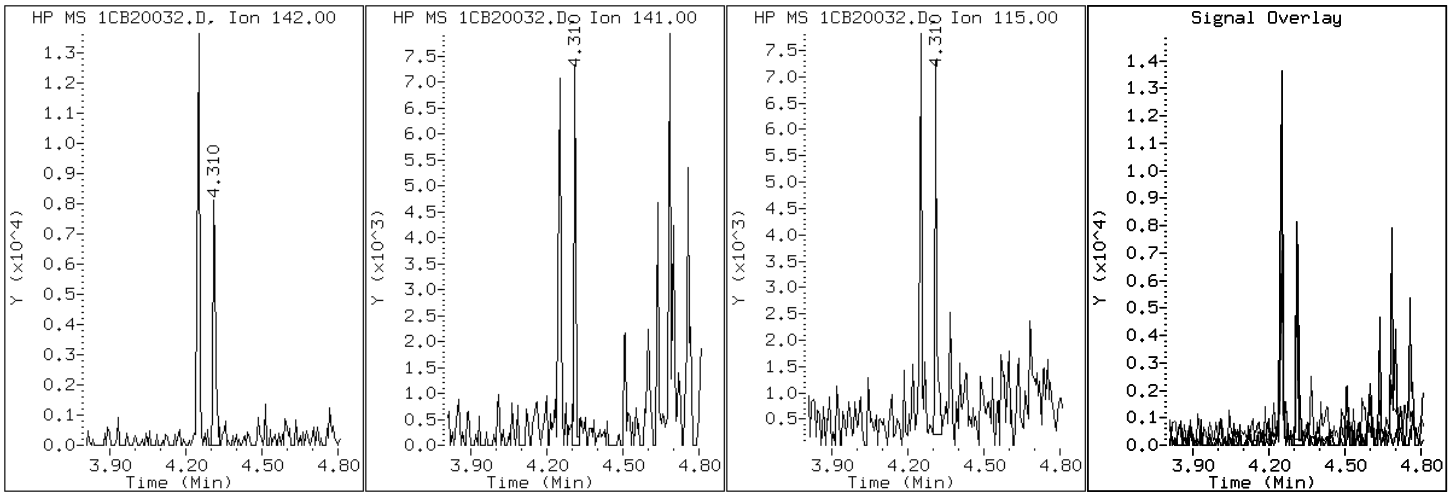
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

4 1-Methylnaphthalene



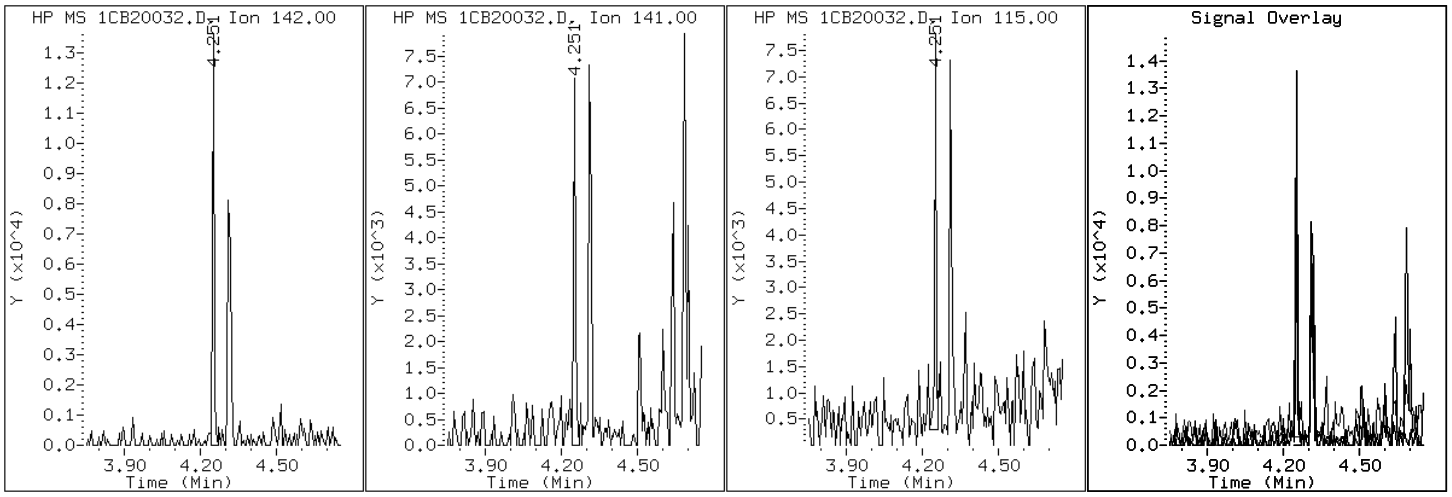
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

3 2-Methylnaphthalene



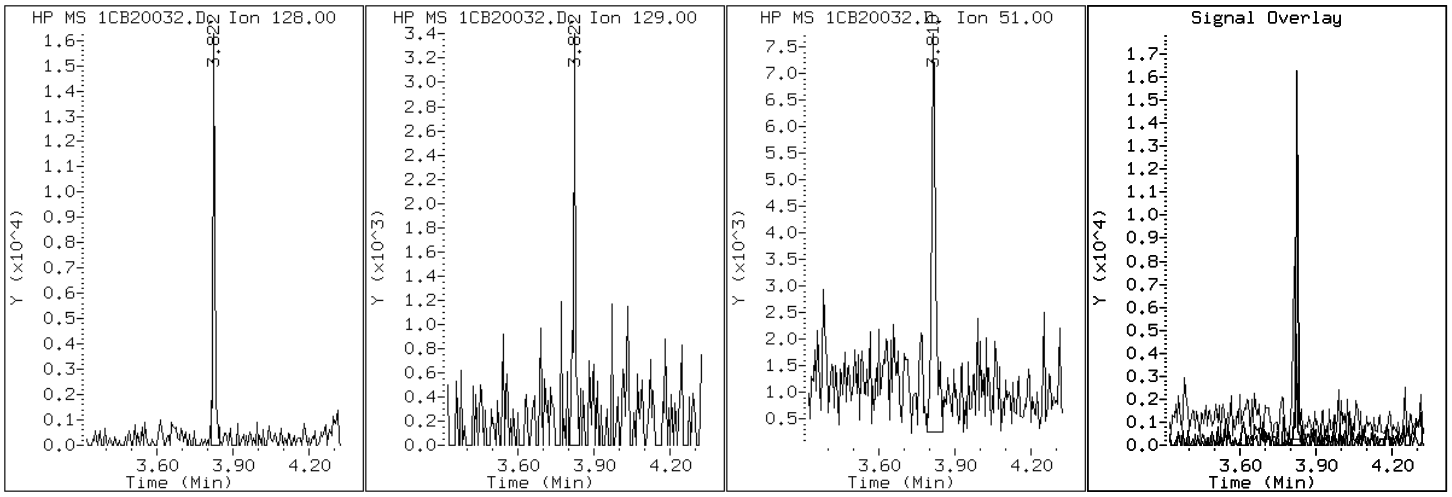
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

2 Naphthalene



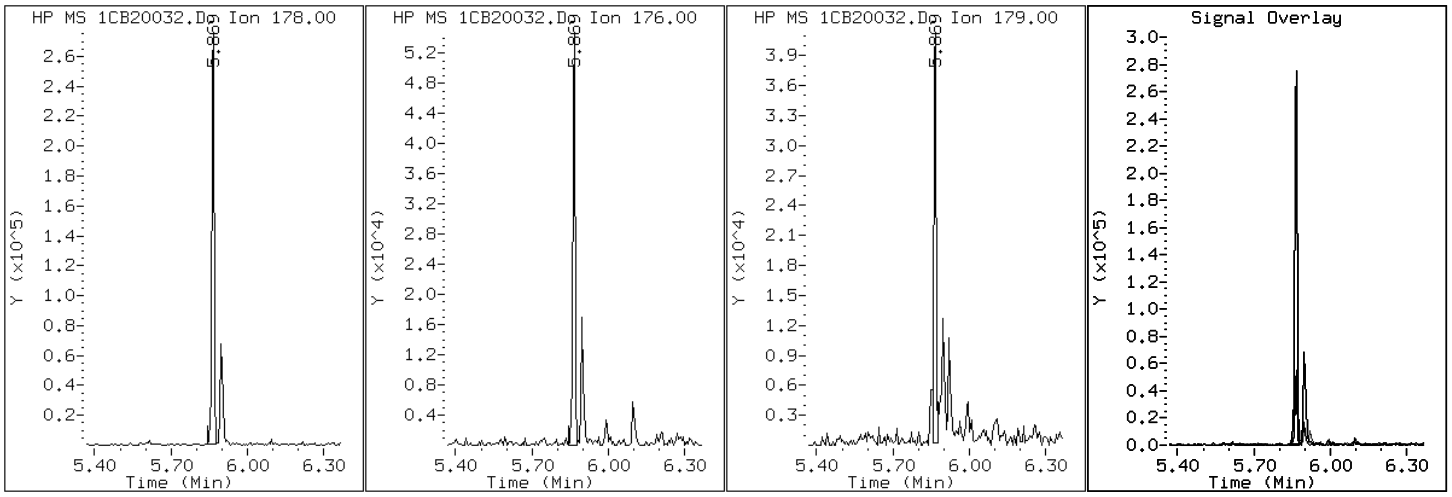
Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

Client ID: CV0971O-CSD Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a Operator: SCC

11 Phenanthrene



Data File: 1CB20032.D

Date: 20-FEB-2013 23:10

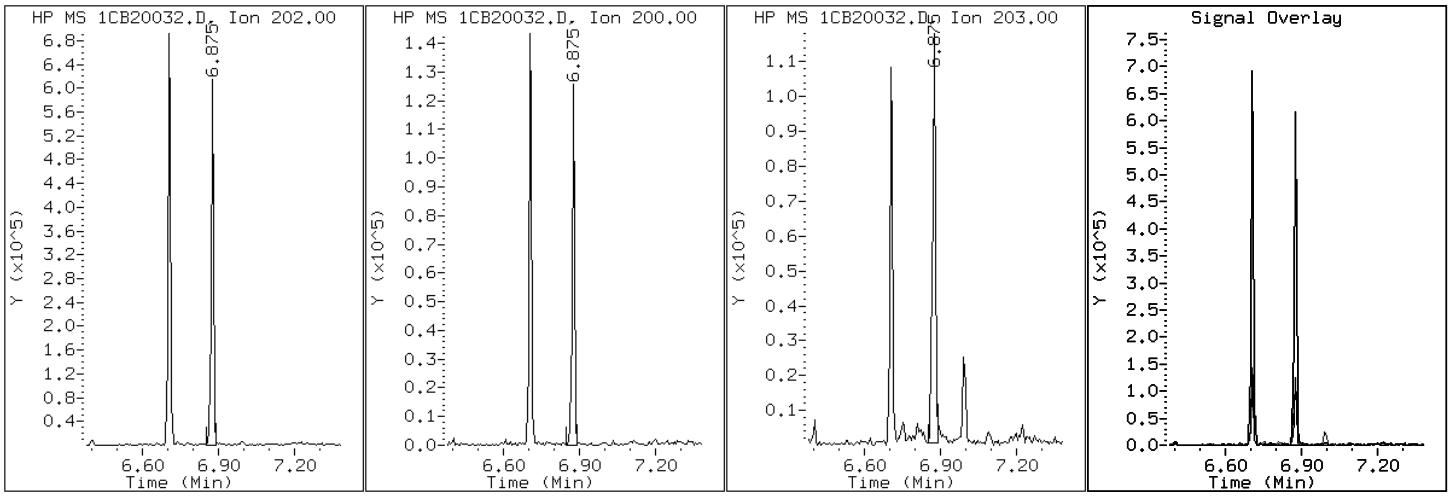
Client ID: CV0971O-CSD

Instrument: BSMC5973.i

Sample Info: 680-87447-a-17-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20032.D
Inj. Date and Time: 20-FEB-2013 23:10
Instrument ID: BSMC5973.i
Client ID: CV0971O-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

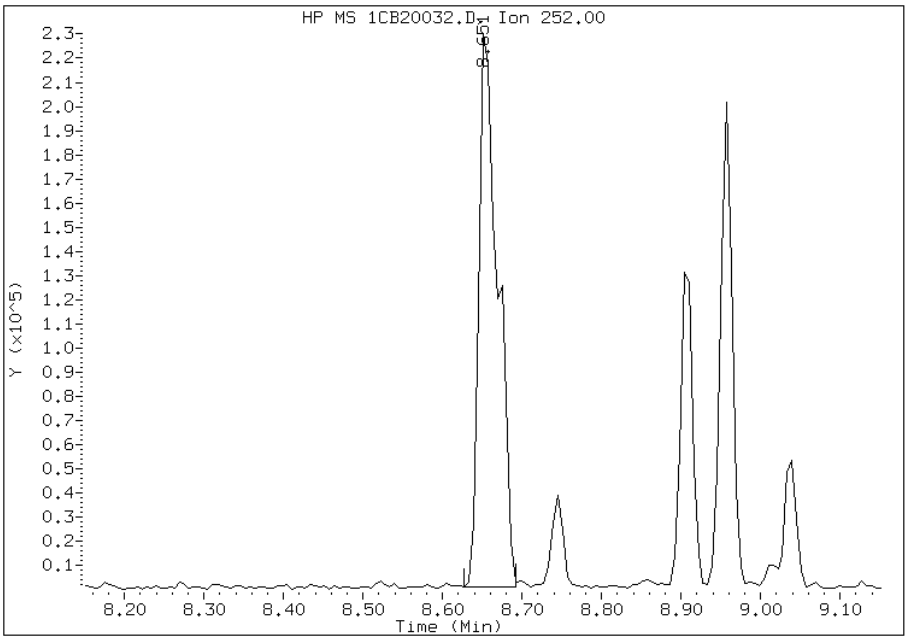
Processing Integration Results

RT: 8.65

Response: 383096

Amount: 5

Conc: 2132



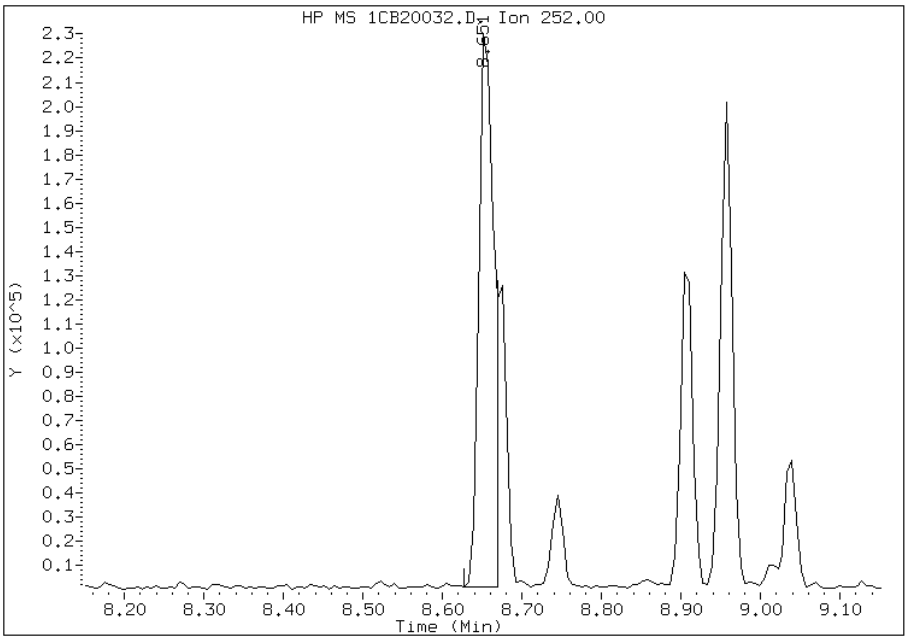
Manual Integration Results

RT: 8.65

Response: 304124

Amount: 4

Conc: 1692



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:53
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20032.D
Inj. Date and Time: 20-FEB-2013 23:10
Instrument ID: BSMC5973.i
Client ID: CV0971O-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

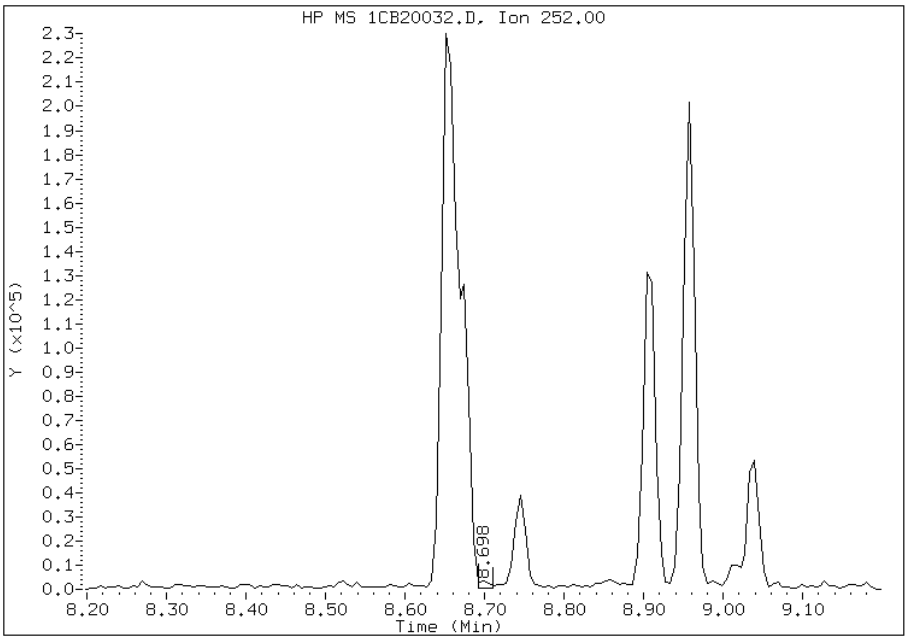
Processing Integration Results

RT: 8.70

Response: 2937

Amount: 0

Conc: 15



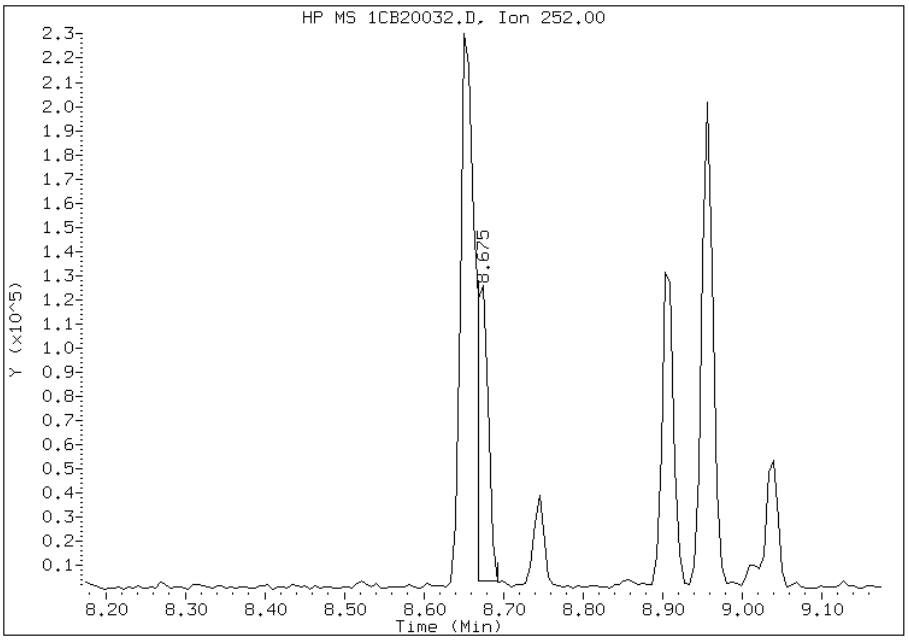
Manual Integration Results

RT: 8.67

Response: 116494

Amount: 1

Conc: 588



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20032.D
Inj. Date and Time: 20-FEB-2013 23:10
Instrument ID: BSMC5973.i
Client ID: CV0971O-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

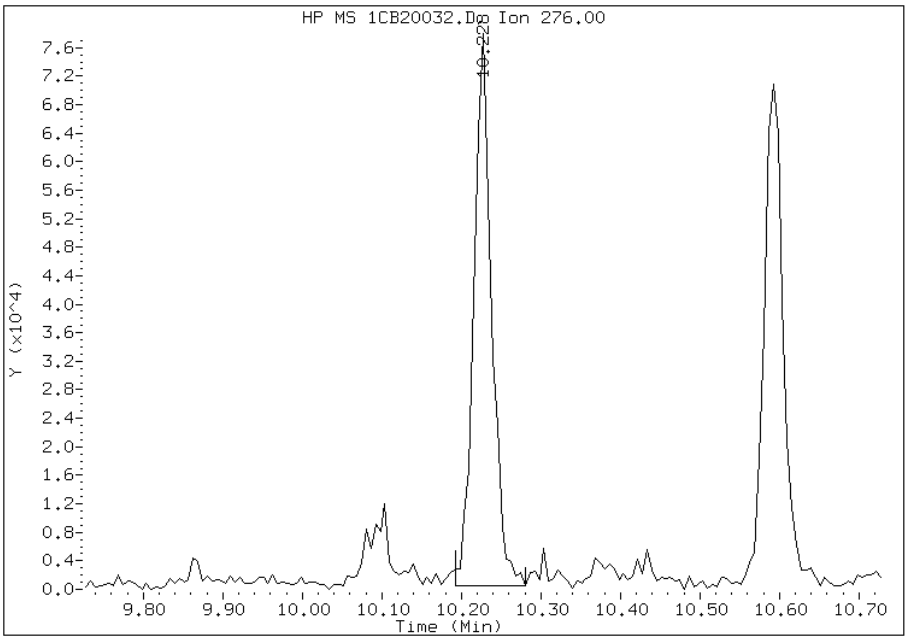
Processing Integration Results

RT: 10.23

Response: 119978

Amount: 2

Conc: 731



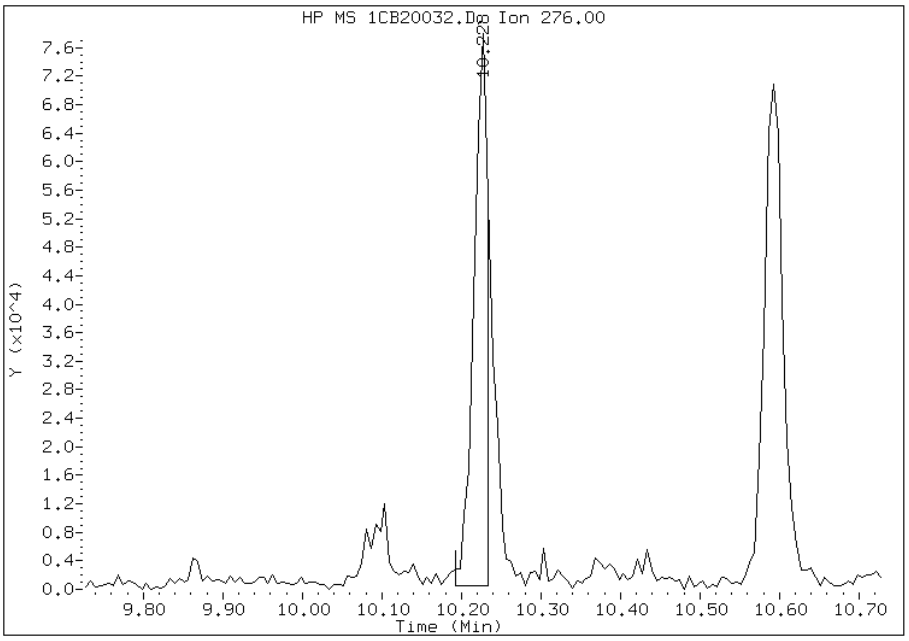
Manual Integration Results

RT: 10.23

Response: 94181

Amount: 1

Conc: 573



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971AC-GS | Lab Sample ID: 680-87447-18

Matrix: Solid | Lab File ID: 1CB20033.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 10:05

Extract. Method: 3546 | Date Extracted: 02/19/2013 14:49

Sample wt/vol: 15.25(g) | Date Analyzed: 02/20/2013 23:28

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

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

% Moisture: 32.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	580	U	580	120
208-96-8	Acenaphthylene	37	J	230	29
120-12-7	Anthracene	48	J	49	25
56-55-3	Benzo[a]anthracene	280		47	23
50-32-8	Benzo[a]pyrene	280		61	30
205-99-2	Benzo[b]fluoranthene	420		71	36
191-24-2	Benzo[g,h,i]perylene	250		120	26
207-08-9	Benzo[k]fluoranthene	130		47	21
218-01-9	Chrysene	260		53	26
53-70-3	Dibenz(a,h)anthracene	62	J	120	24
206-44-0	Fluoranthene	400		120	23
86-73-7	Fluorene	120	U	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	150		120	41
90-12-0	1-Methylnaphthalene	54	J	230	26
91-57-6	2-Methylnaphthalene	64	J	230	41
91-20-3	Naphthalene	60	J	230	26
85-01-8	Phenanthrene	190		47	23
129-00-0	Pyrene	360		120	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20033.D
Lab Smp Id: 680-87447-A-18-A Client Smp ID: CV0971AC-GS
Inj Date : 20-FEB-2013 23:28
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-18-a
Misc Info : 680-87447-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 33
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	15.250	Weight Extracted
M	32.609	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2192627	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1680509	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3093508	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	91957	2.02875	789.6133
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3268462	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2990467	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	9030	0.15542	60.4901(Q)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	6222	0.16469	64.1008
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	4763	0.13862	53.9533
5 Acenaphthylene	152	4.810	4.810	(0.982)	6404	0.09579	37.2808
11 Phenanthrene	178	5.869	5.869	(1.003)	44078	0.47735	185.7900
12 Anthracene	178	5.898	5.904	(1.008)	10337	0.12425	48.3599
13 Carbazole	167	6.004	6.010	(1.026)	7337	0.10153	39.5165
15 Fluoranthene	202	6.704	6.710	(1.146)	92947	1.03013	400.9402

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.874	6.880	(0.882)	80655	0.92692	360.7665
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	65285	0.72432	281.9155
19 Chrysene	228	7.815	7.827	(1.002)	62327	0.66945	260.5576
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	78280	1.06770	415.5615(M)
21 Benzo(k)fluoranthene	252	8.668	8.686	(0.962)	26649	0.32993	128.4146(M)
22 Benzo(a)pyrene	252	8.957	8.968	(0.993)	50587	0.72511	282.2208
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.245	(1.134)	25989	0.38785	150.9565(M)
25 Dibenzo(a,h)anthracene	278	10.239	10.262	(1.136)	10027	0.15868	61.7608
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	43027	0.63213	246.0340

QC Flag Legend

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

Data File: 1CB20033.D

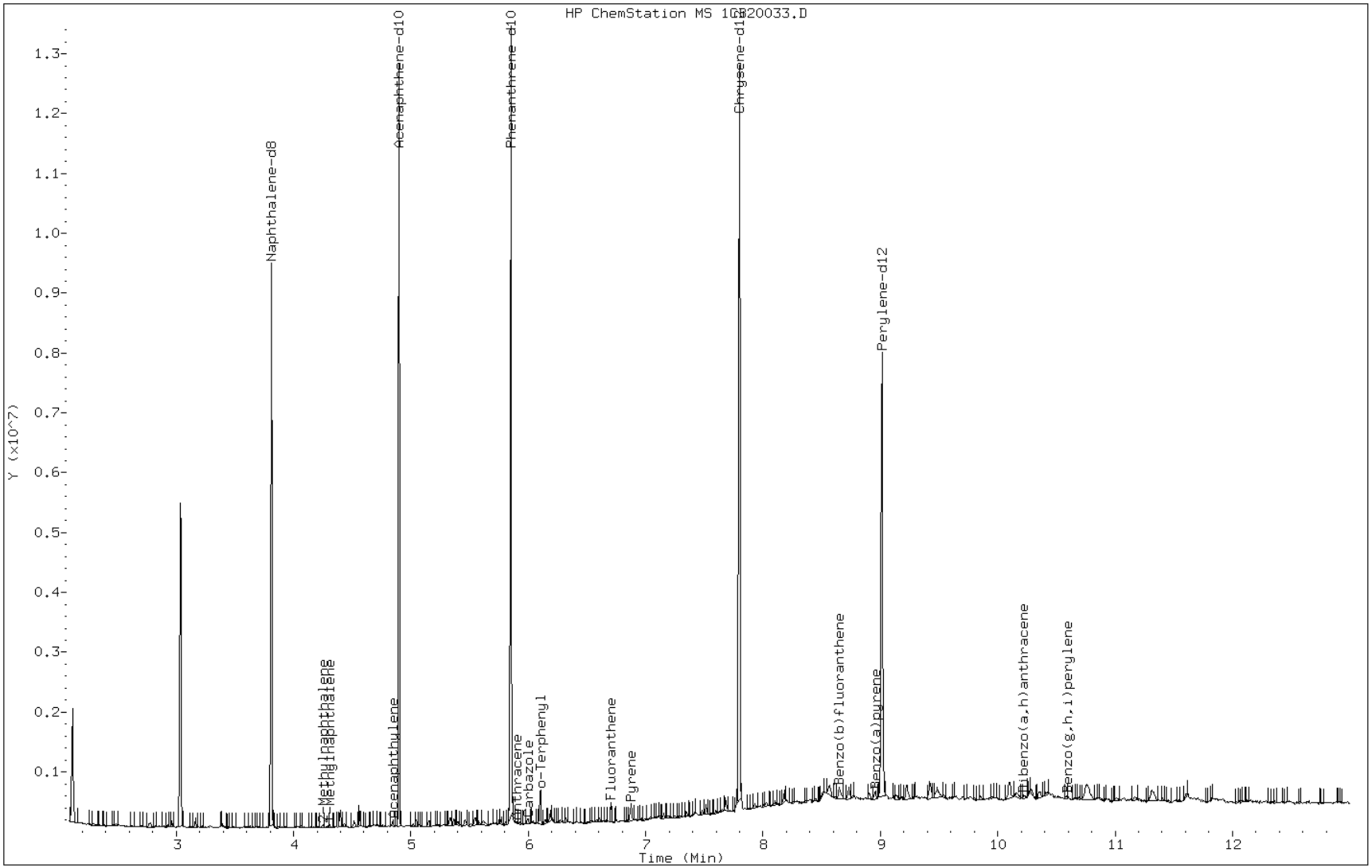
Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a

Operator: SCC



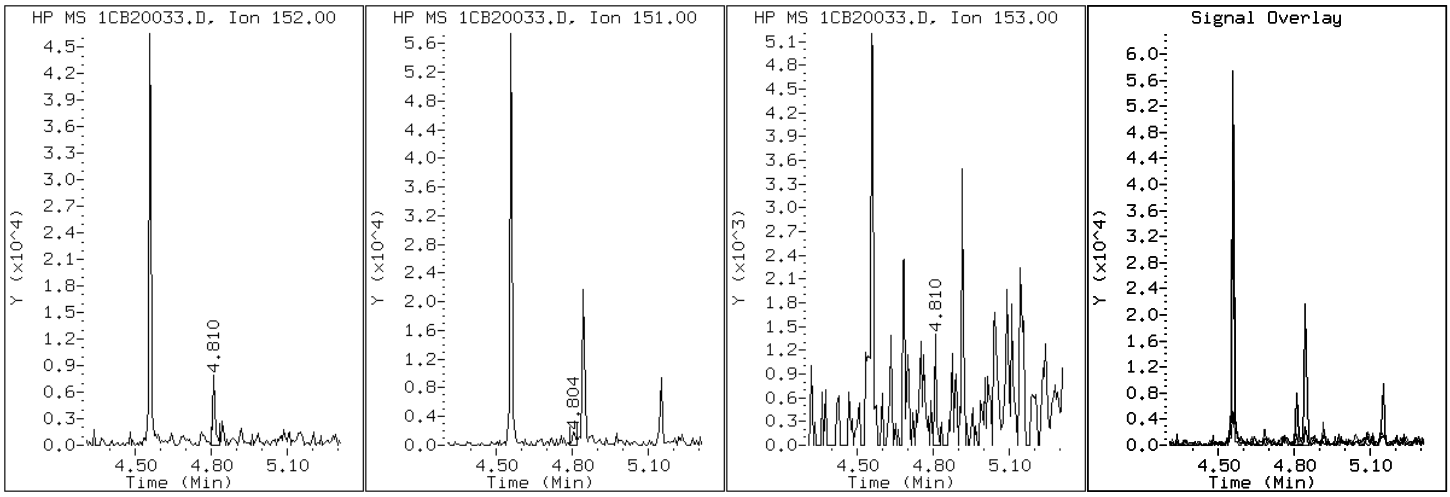
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a Operator: SCC

5 Acenaphthylene



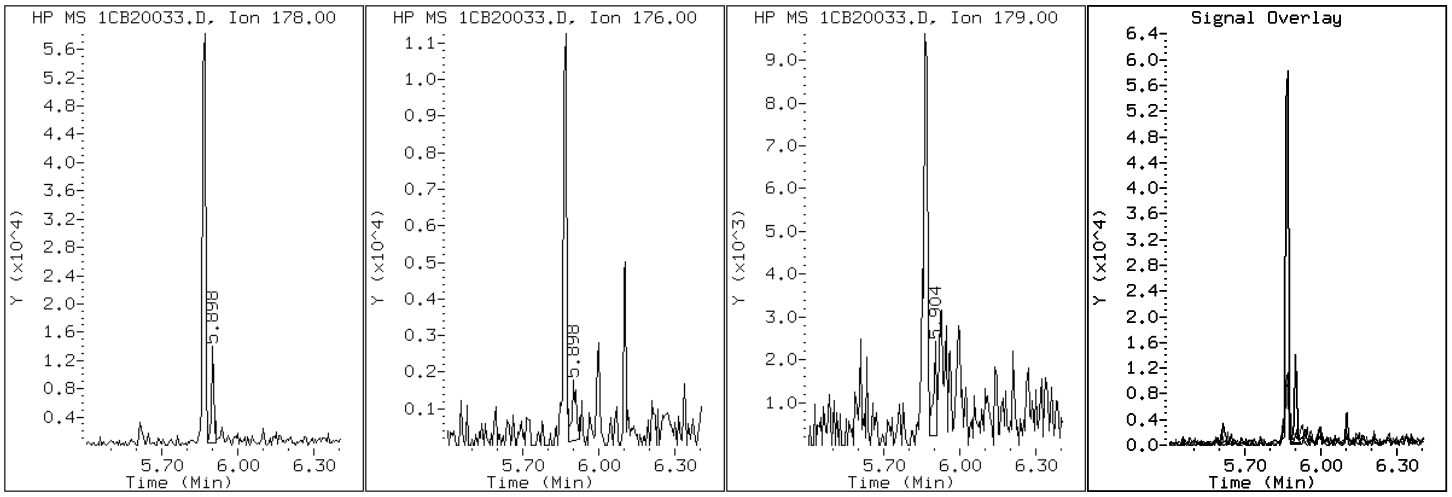
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a Operator: SCC

12 Anthracene



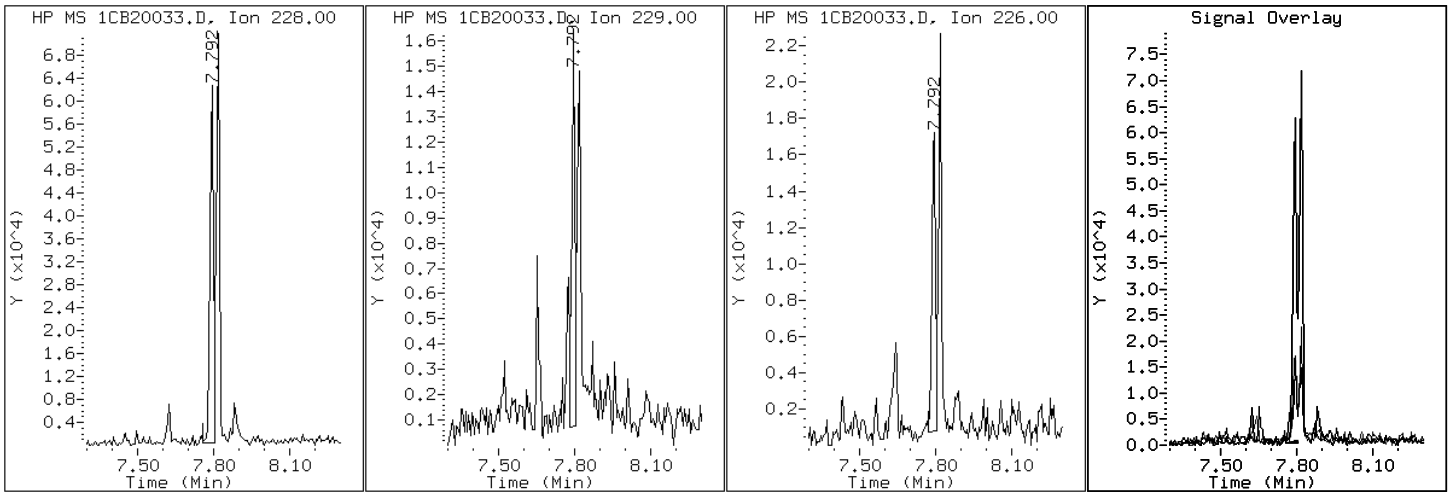
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a Operator: SCC

17 Benzo(a)anthracene



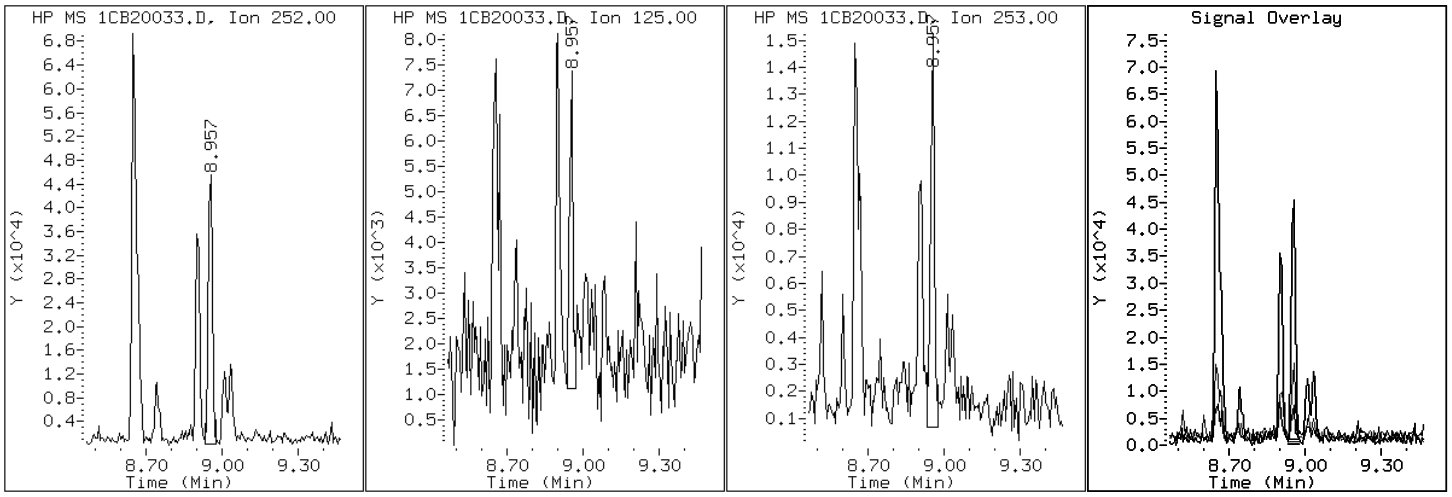
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

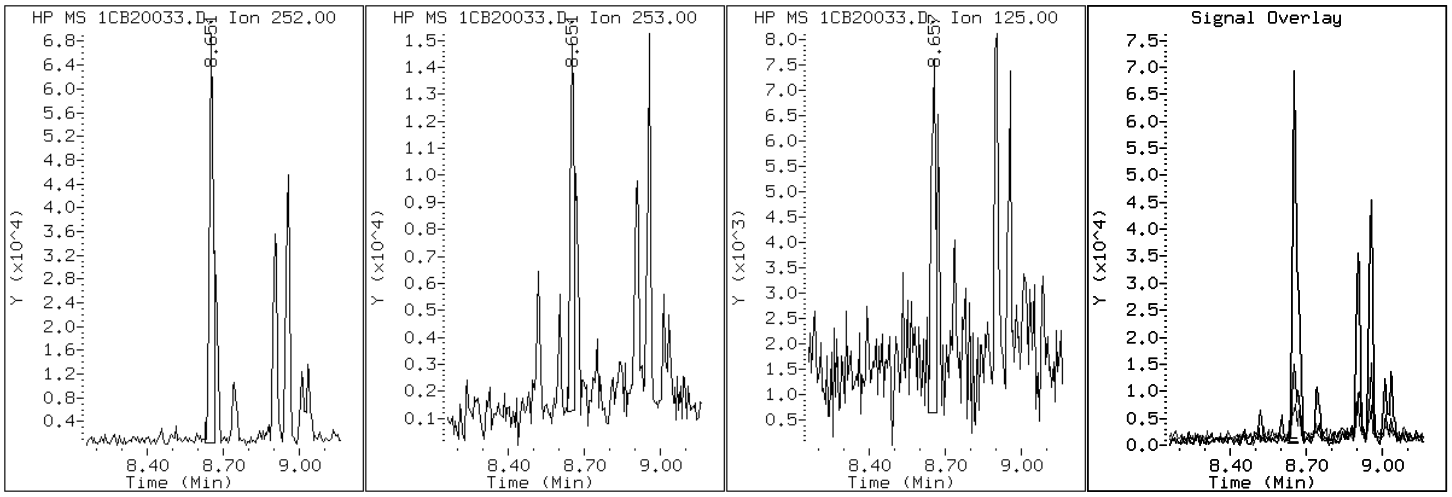
Client ID: CV0971AC-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a

Operator: SCC

20 Benzo(b)fluoranthene



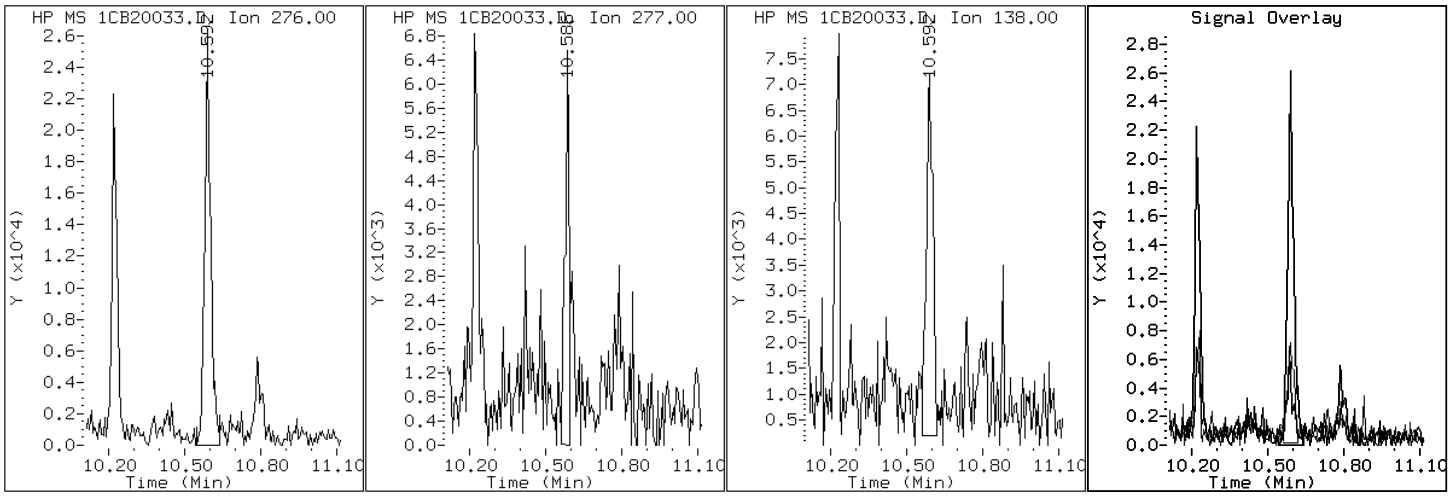
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

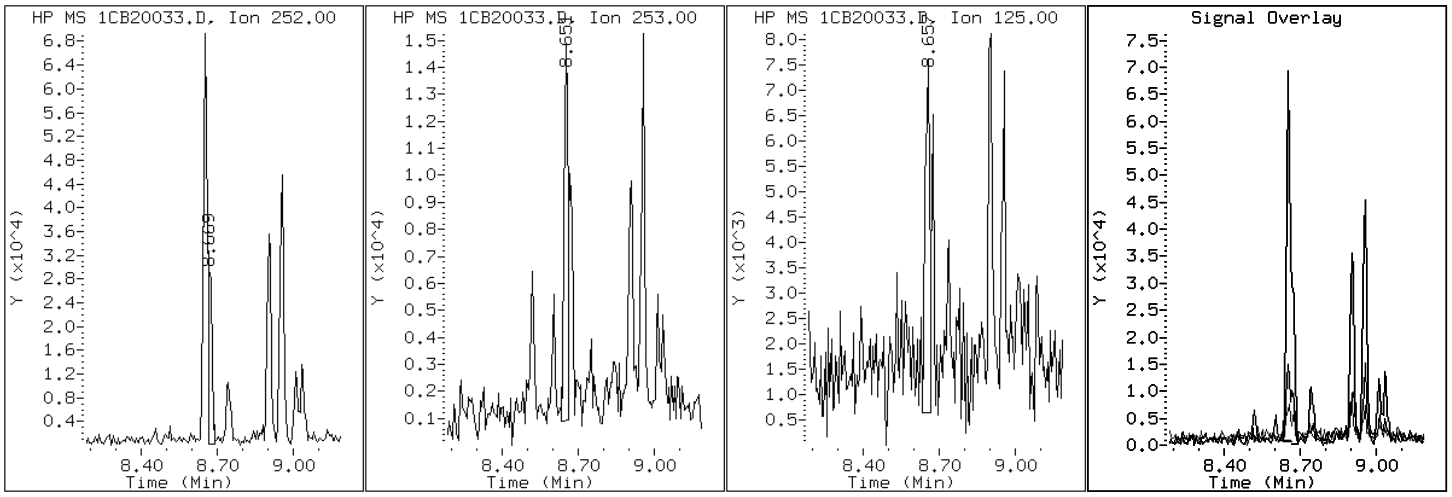
Client ID: CV0971AC-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a

Operator: SCC

21 Benzo(k)fluoranthene



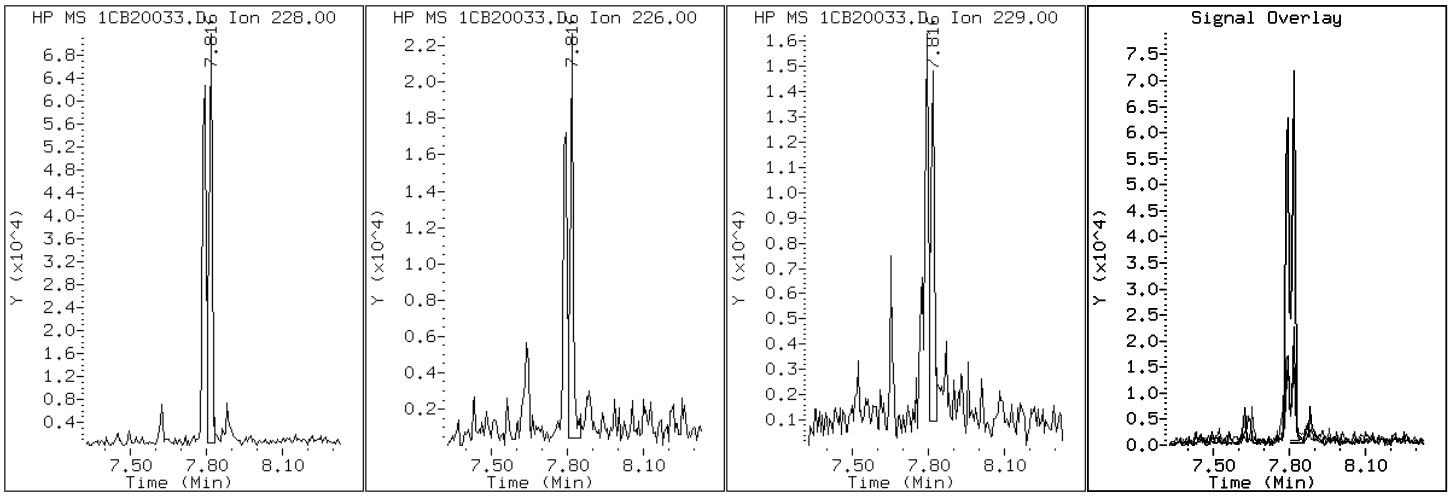
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a Operator: SCC

19 Chrysene



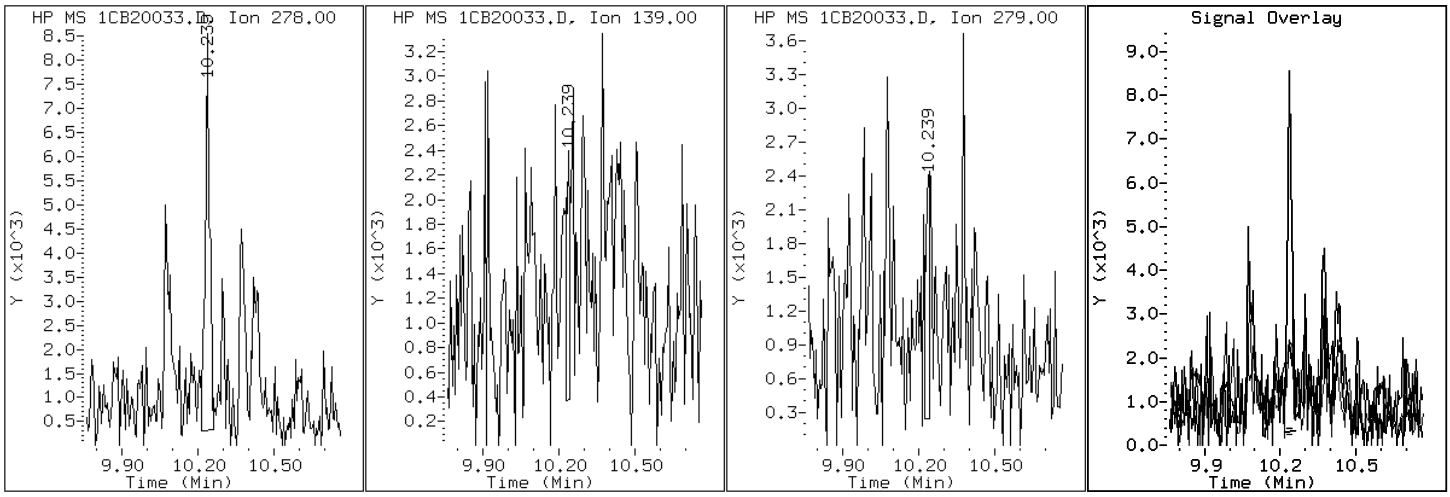
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS | Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a | Operator: SCC

25 Dibenzo(a,h)anthracene



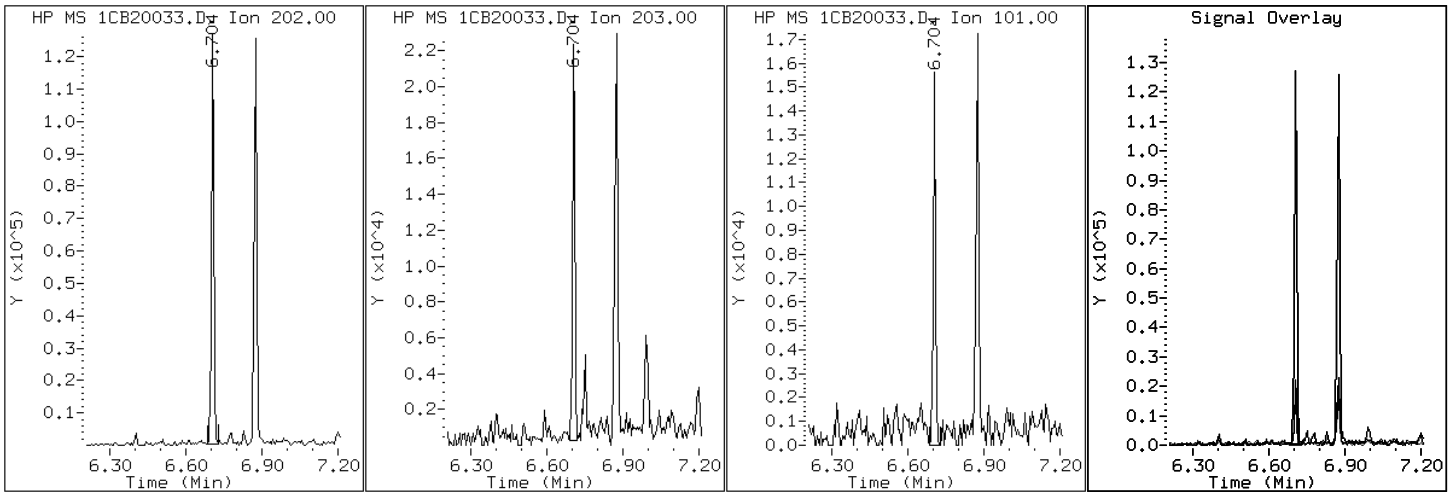
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a Operator: SCC

15 Fluoranthene



Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

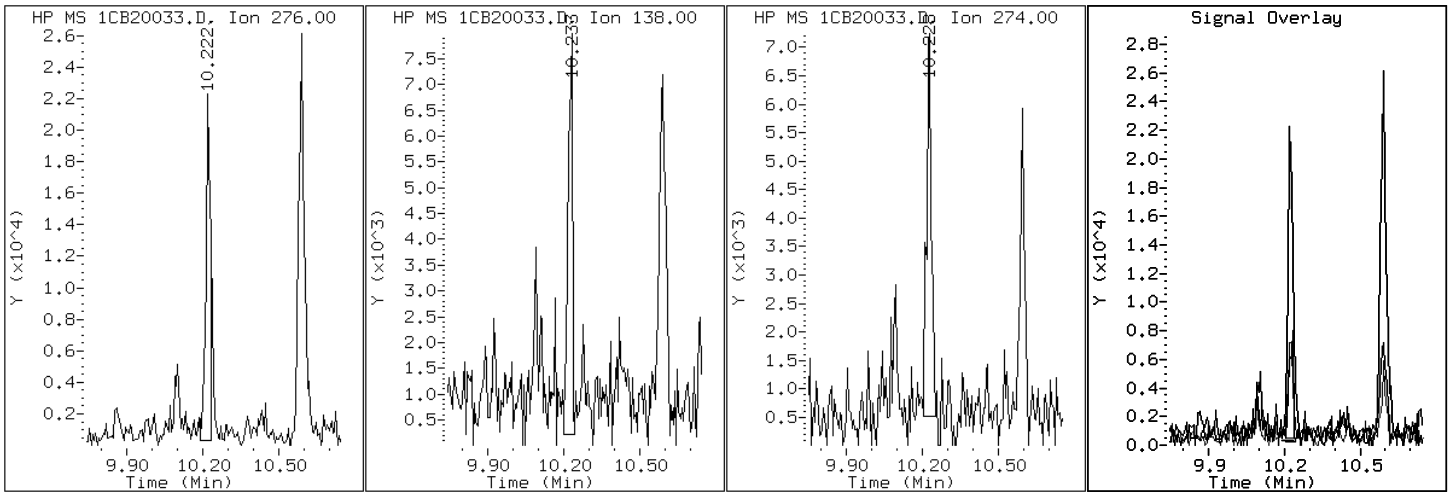
Client ID: CV0971AC-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a

Operator: SCC

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



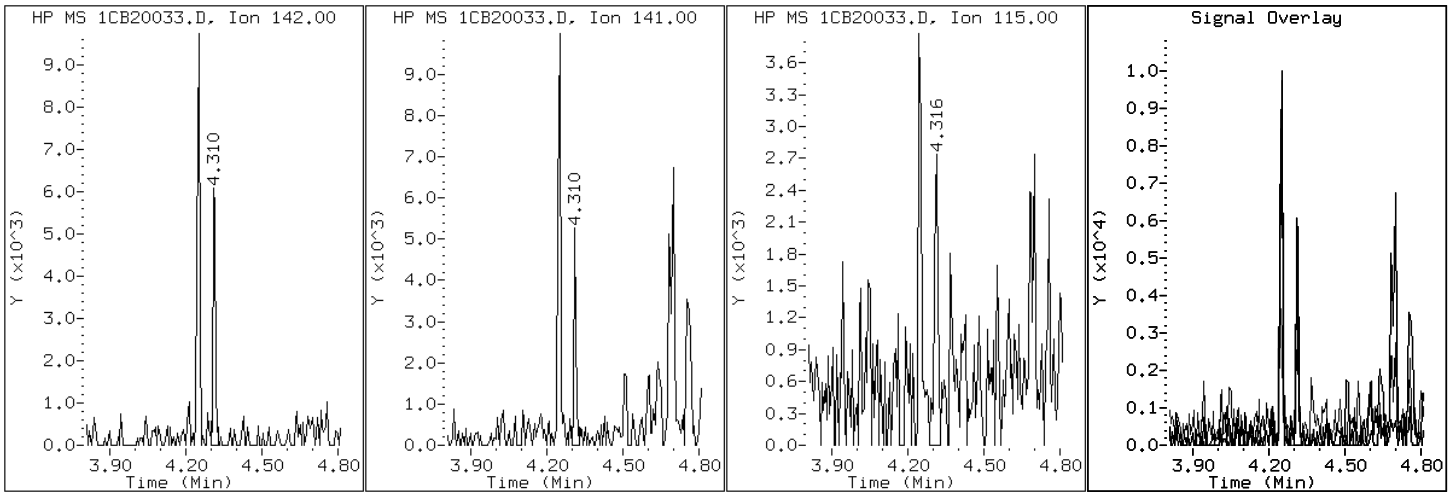
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a Operator: SCC

4 1-Methylnaphthalene



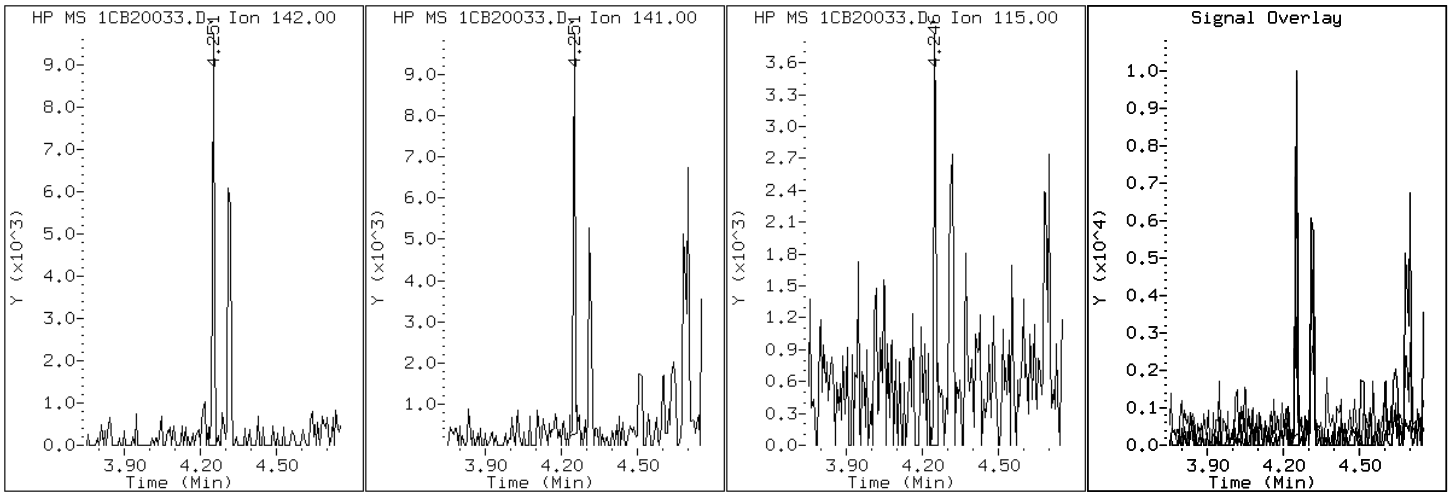
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a Operator: SCC

3 2-Methylnaphthalene



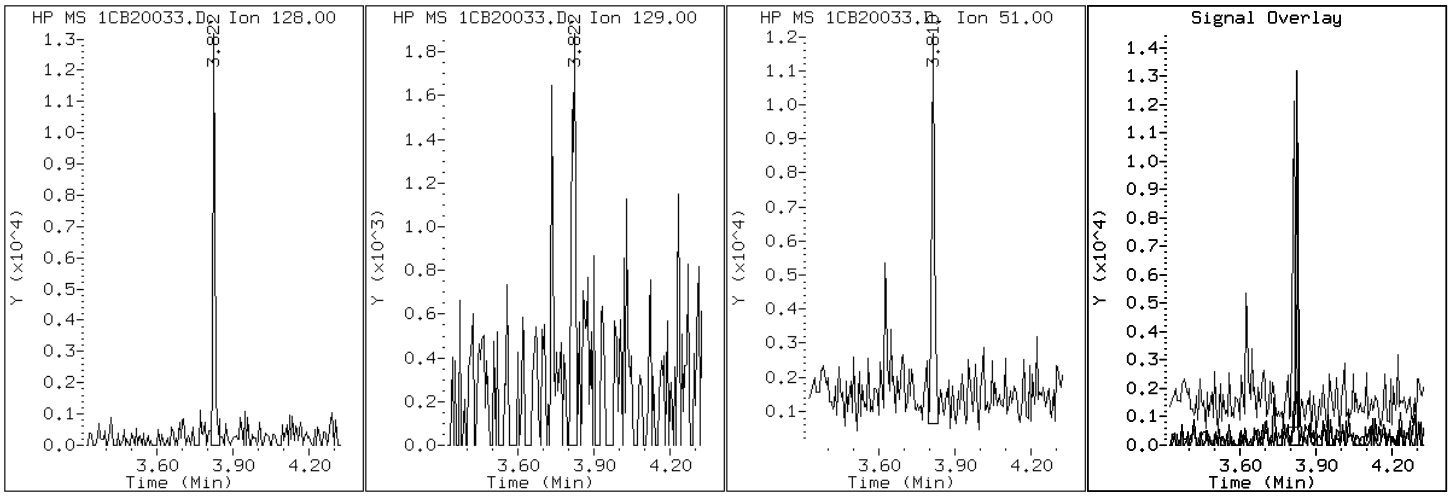
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a Operator: SCC

2 Naphthalene



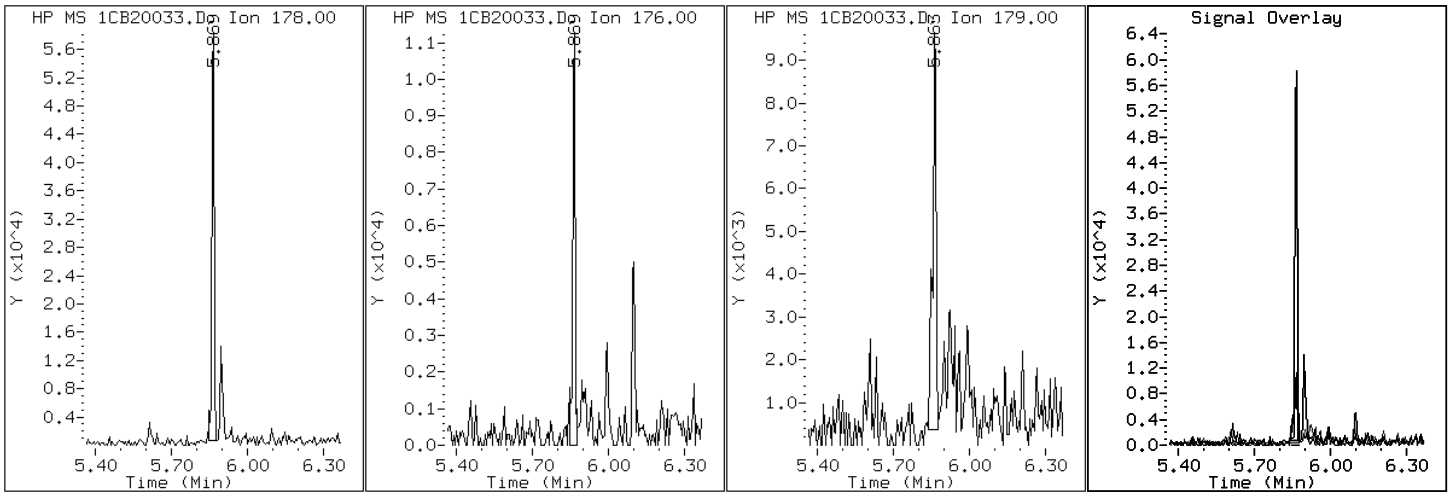
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a Operator: SCC

11 Phenanthrene



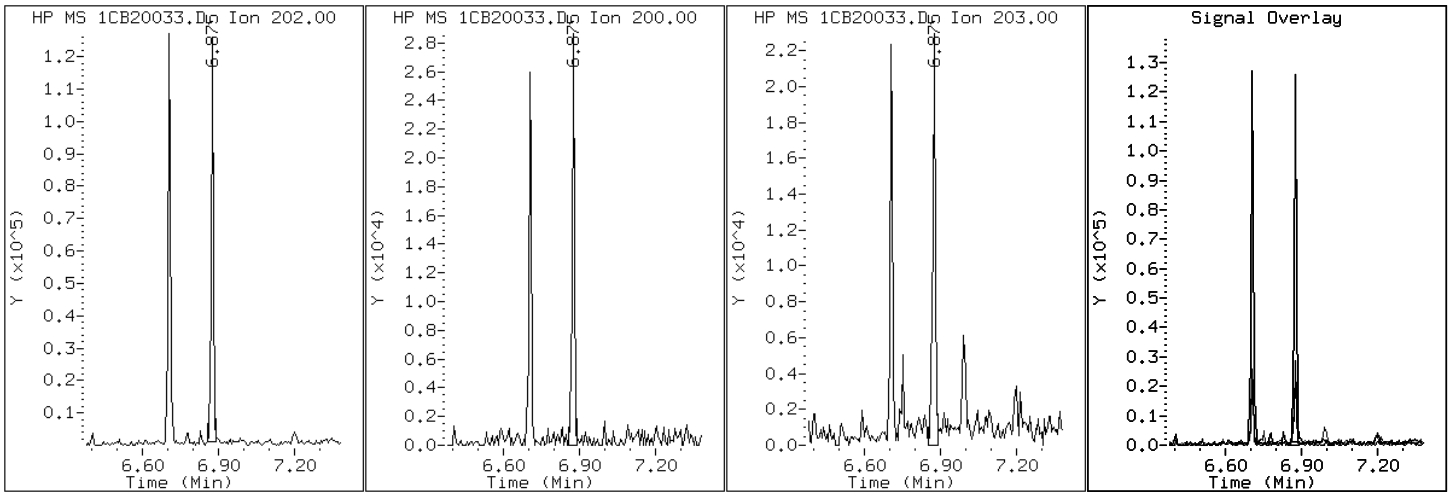
Data File: 1CB20033.D

Date: 20-FEB-2013 23:28

Client ID: CV0971AC-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-18-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20033.D
Inj. Date and Time: 20-FEB-2013 23:28
Instrument ID: BSMC5973.i
Client ID: CV0971AC-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

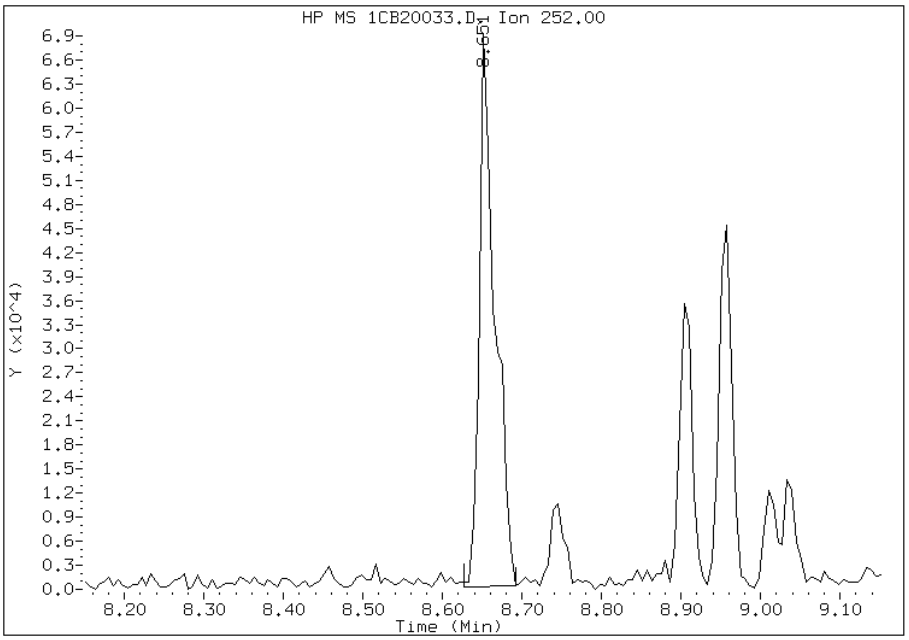
Processing Integration Results

RT: 8.65

Response: 94116

Amount: 1

Conc: 500



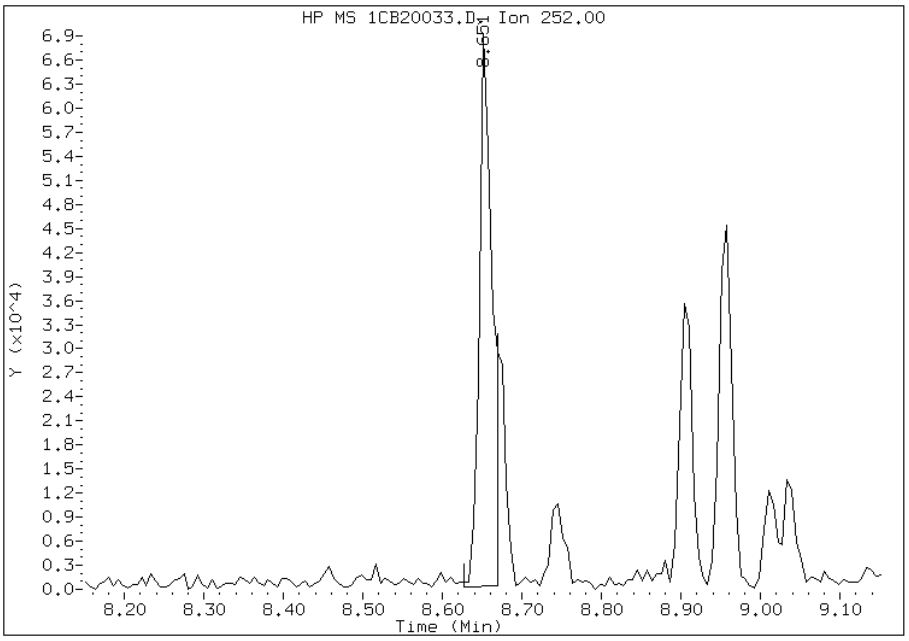
Manual Integration Results

RT: 8.65

Response: 78280

Amount: 1

Conc: 416



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20033.D
Inj. Date and Time: 20-FEB-2013 23:28
Instrument ID: BSMC5973.i
Client ID: CV0971AC-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

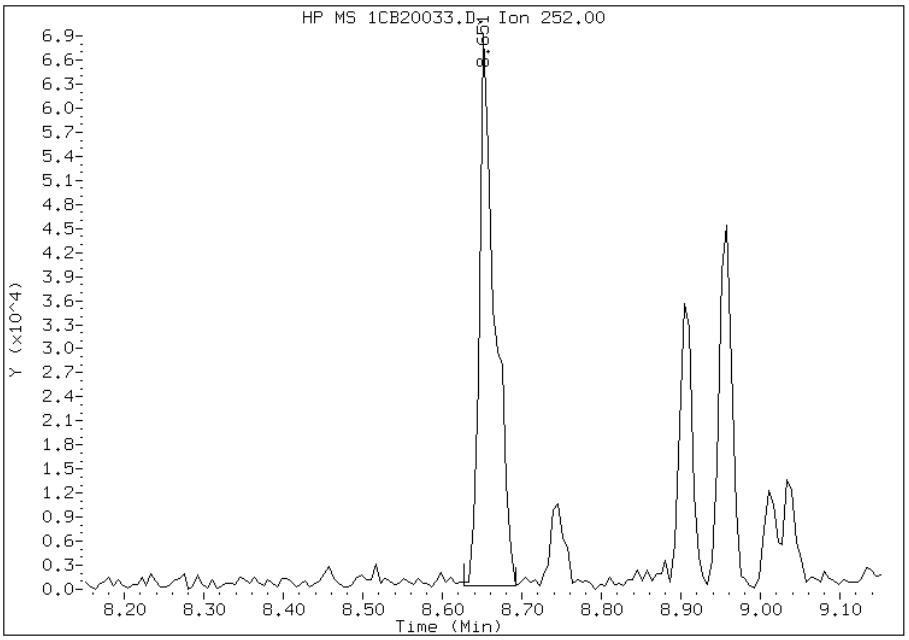
Processing Integration Results

RT: 8.65

Response: 94063

Amount: 1

Conc: 453



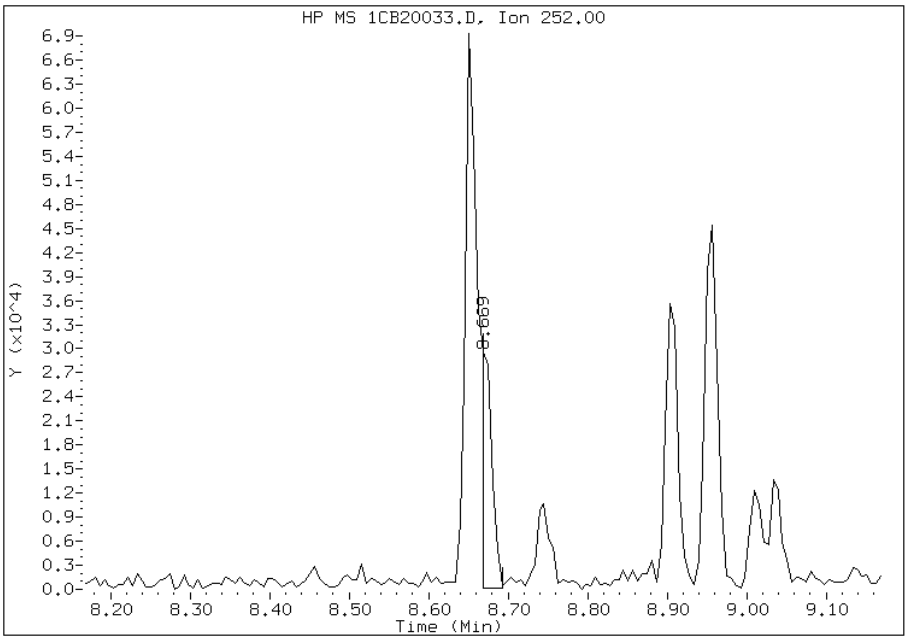
Manual Integration Results

RT: 8.67

Response: 26649

Amount: 0

Conc: 128



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20033.D
Inj. Date and Time: 20-FEB-2013 23:28
Instrument ID: BSMC5973.i
Client ID: CV0971AC-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

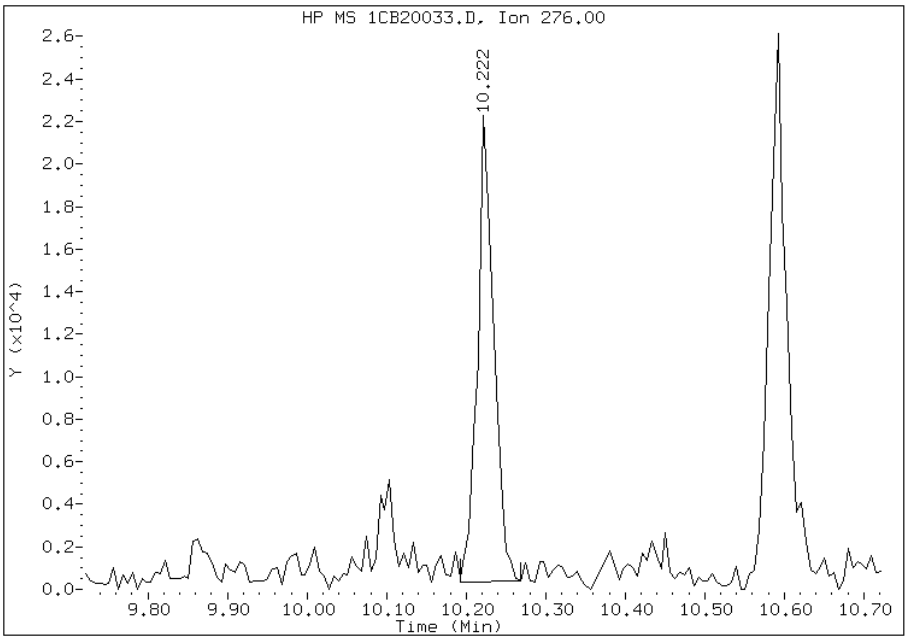
Processing Integration Results

RT: 10.22

Response: 31012

Amount: 0

Conc: 180



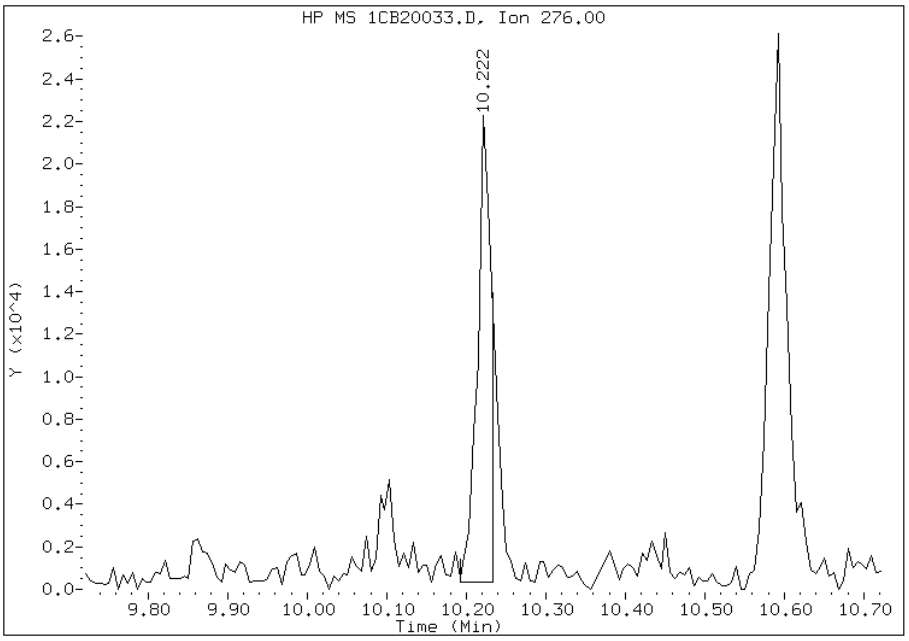
Manual Integration Results

RT: 10.22

Response: 25989

Amount: 0

Conc: 151



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971AD-GS | Lab Sample ID: 680-87447-19

Matrix: Solid | Lab File ID: 1CB20034.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 10:23

Extract. Method: 3546 | Date Extracted: 02/19/2013 14:49

Sample wt/vol: 15.02(g) | Date Analyzed: 02/20/2013 23:46

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

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

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

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	11	J	52	6.6
120-12-7	Anthracene	56		11	5.5
56-55-3	Benzo[a]anthracene	260		10	5.1
50-32-8	Benzo[a]pyrene	200		14	6.8
205-99-2	Benzo[b]fluoranthene	300		16	8.0
191-24-2	Benzo[g,h,i]perylene	88		26	5.8
207-08-9	Benzo[k]fluoranthene	100		10	4.7
218-01-9	Chrysene	210		12	5.9
53-70-3	Dibenz(a,h)anthracene	31		26	5.4
206-44-0	Fluoranthene	510		26	5.2
86-73-7	Fluorene	18	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	88		26	9.3
90-12-0	1-Methylnaphthalene	10	J	52	5.8
91-57-6	2-Methylnaphthalene	52	U	52	9.3
91-20-3	Naphthalene	13	J	52	5.8
85-01-8	Phenanthrene	210		10	5.1
129-00-0	Pyrene	440		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20034.D
Lab Smp Id: 680-87447-A-19-A Client Smp ID: CV0971AD-GS
Inj Date : 20-FEB-2013 23:46
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-19-a
Misc Info : 680-87447-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	23.810	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2165961	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1671405	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3098584	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	349959	7.70812	673.5625
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3334576	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3108055	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	8679	0.15121	13.2136(Q)
4 1-Methylnaphthalene	142	4.316	4.310	(1.133)	3963	0.11676	10.2027(Q)
5 Acenaphthylene	152	4.810	4.810	(0.982)	8075	0.12144	10.6115
9 Fluorene	166	5.239	5.239	(1.070)	10906	0.20372	17.8015
11 Phenanthrene	178	5.868	5.869	(1.003)	218288	2.36011	206.2345
12 Anthracene	178	5.898	5.904	(1.008)	53486	0.64185	56.0869
13 Carbazole	167	6.004	6.010	(1.026)	20370	0.28142	24.5913
15 Fluoranthene	202	6.704	6.710	(1.146)	530120	5.86570	512.5656

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.874	6.880	(0.882)	447948	5.04591	440.9288
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	271856	2.95639	258.3392
19 Chrysene	228	7.815	7.827	(1.002)	226158	2.38098	208.0584
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	260520	3.41893	298.7576
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	99701	1.18767	103.7830(Q)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	164037	2.26233	197.6903
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.245	(1.134)	70311	1.00960	88.2224(M)
25 Dibenzo(a,h)anthracene	278	10.239	10.262	(1.136)	23247	0.35398	30.9316
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	71062	1.00451	87.7778

QC Flag Legend

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

Data File: 1CB20034.D

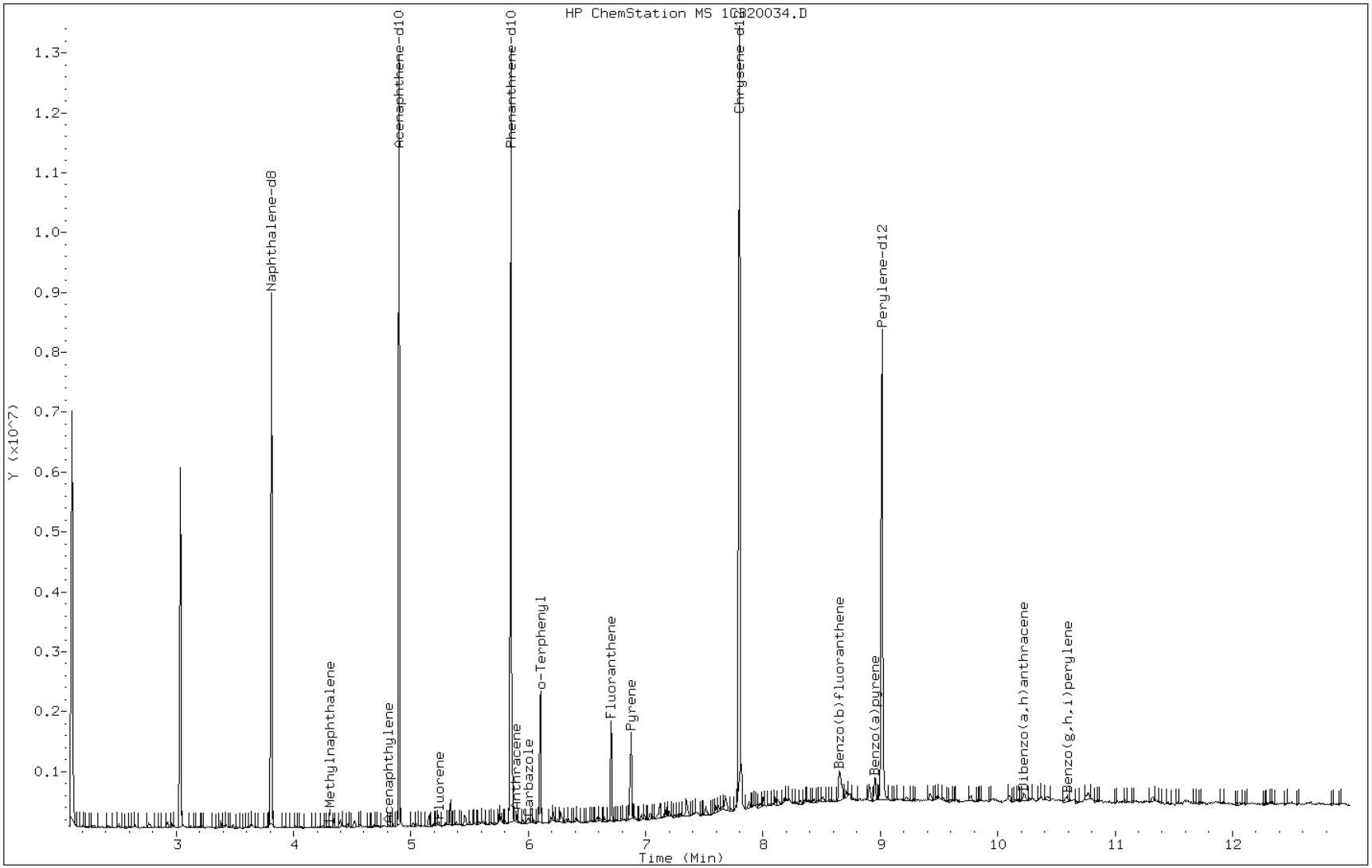
Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a

Operator: SCC



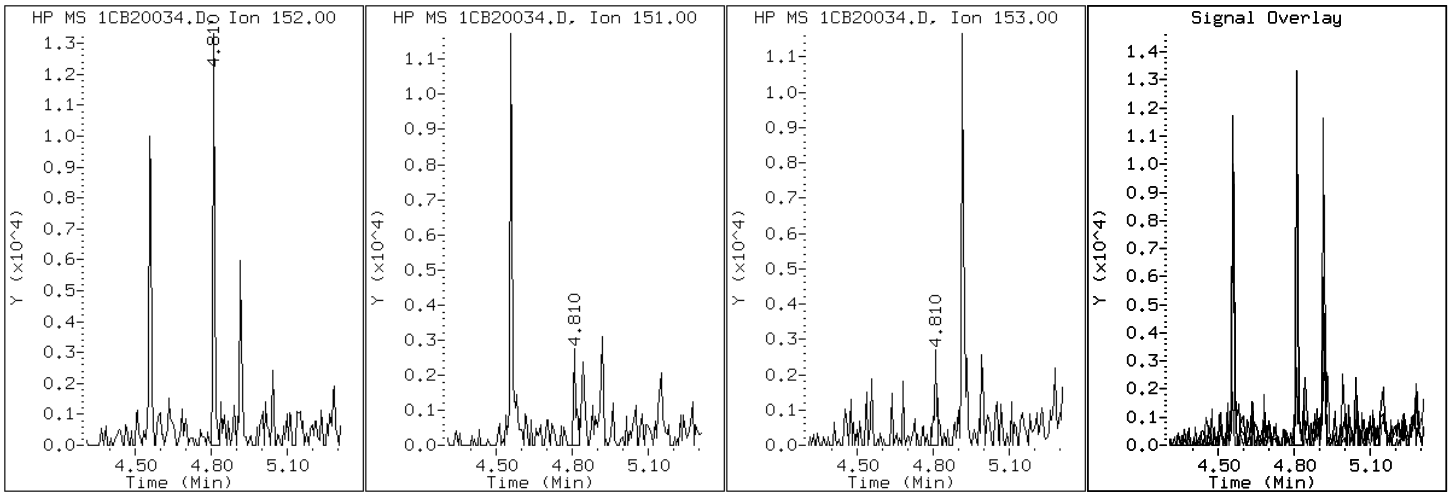
Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a Operator: SCC

5 Acenaphthylene



Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

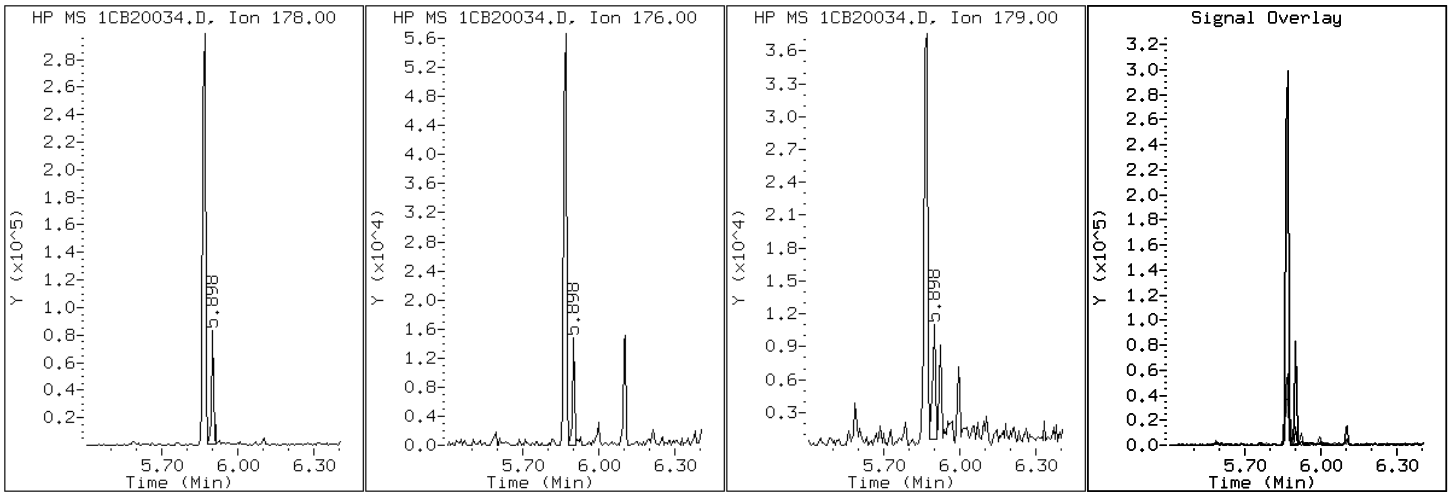
Client ID: CV0971AD-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a

Operator: SCC

12 Anthracene



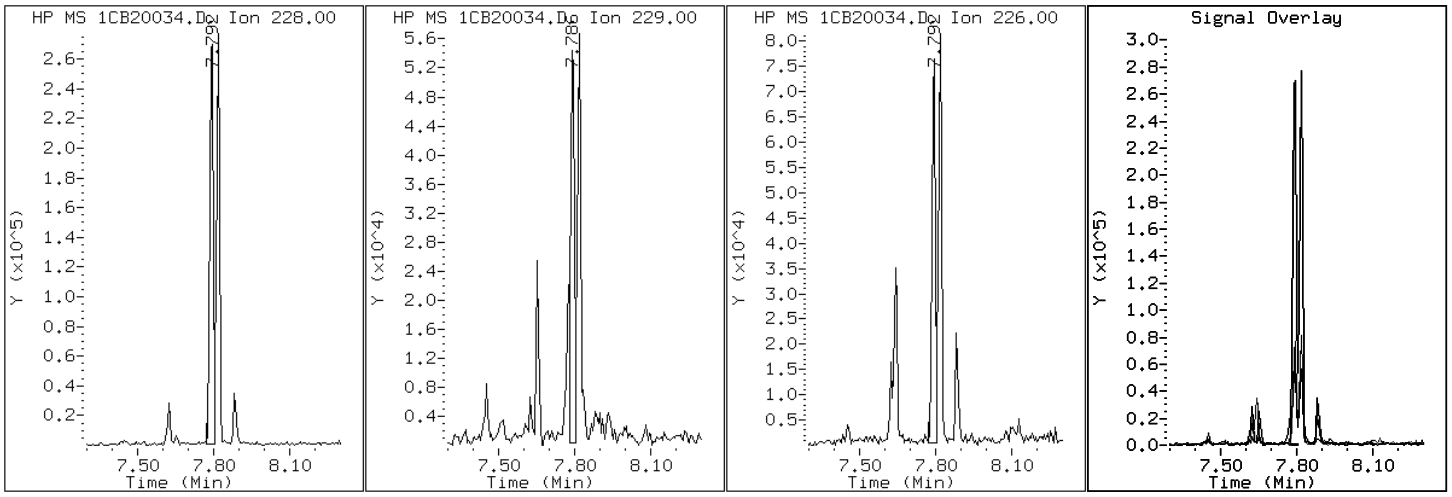
Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a Operator: SCC

17 Benzo(a)anthracene



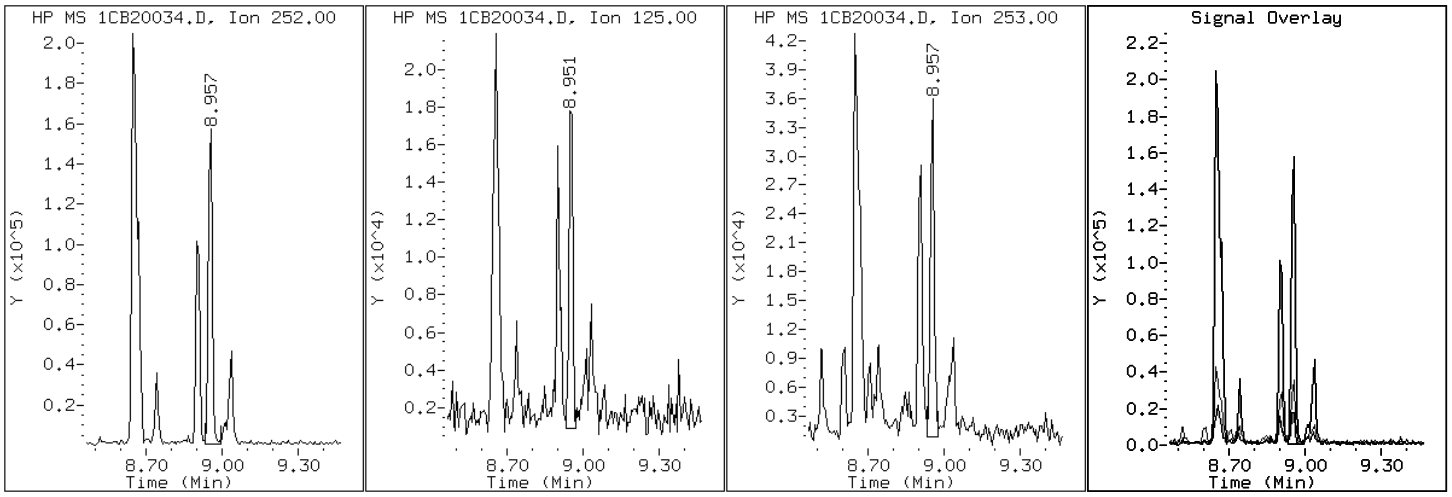
Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a Operator: SCC

22 Benzo(a)pyrene



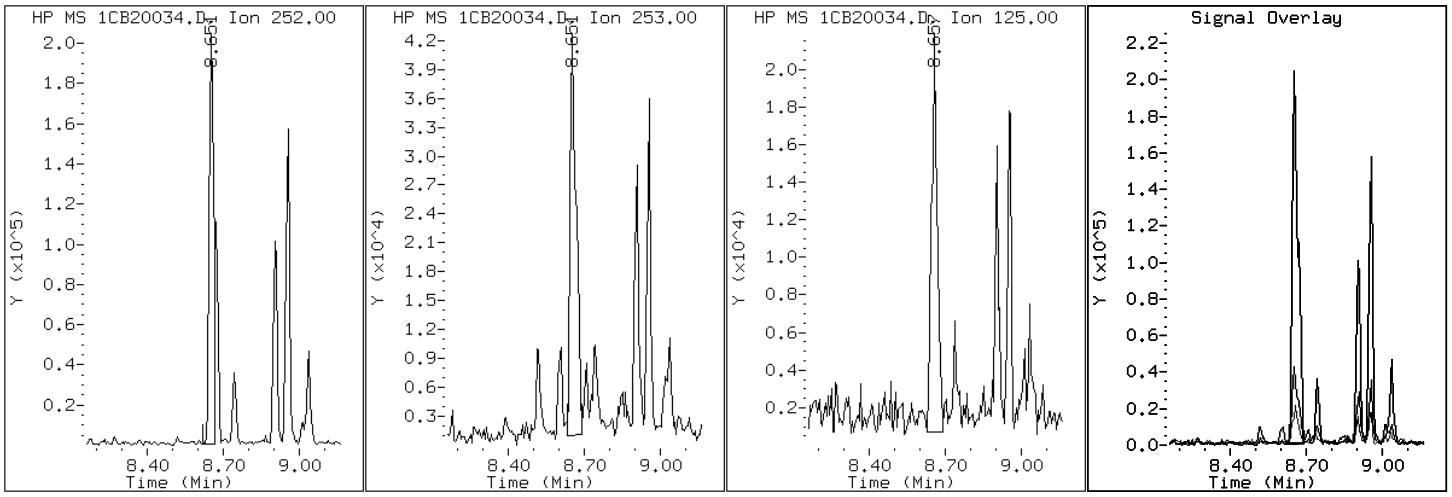
Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a Operator: SCC

20 Benzo(b)fluoranthene



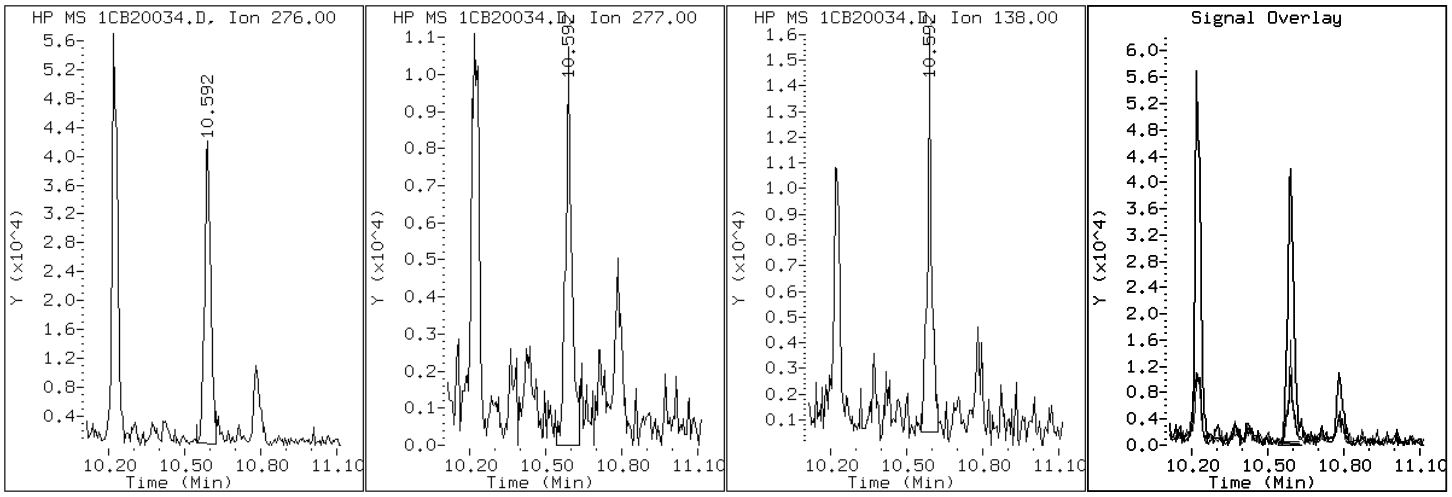
Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a Operator: SCC

26 Benzo(g,h,i)perylene



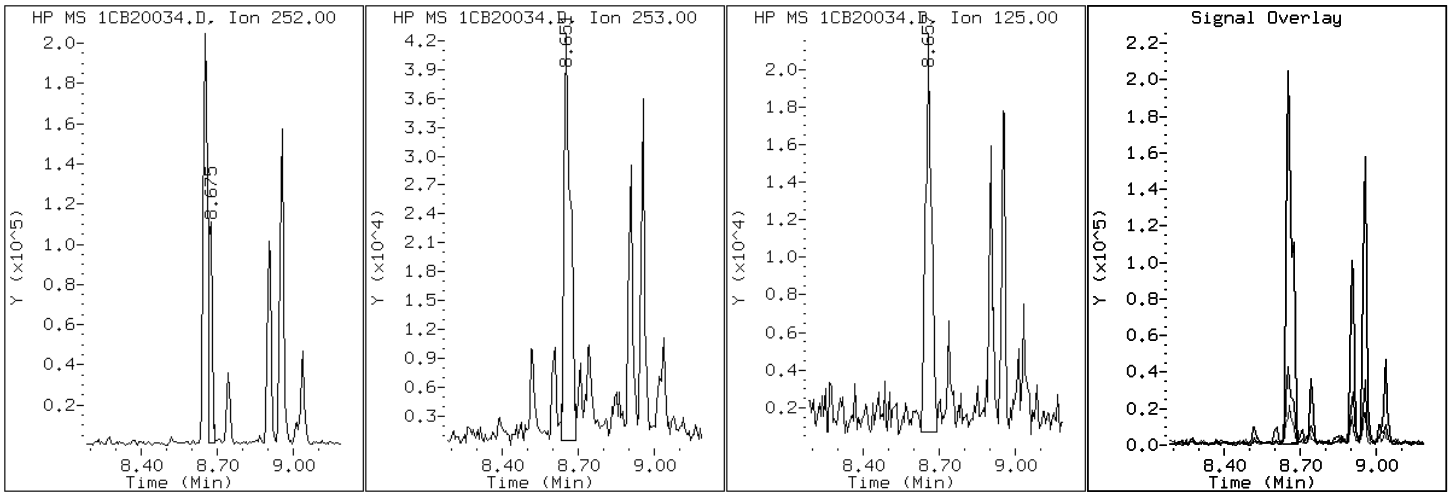
Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

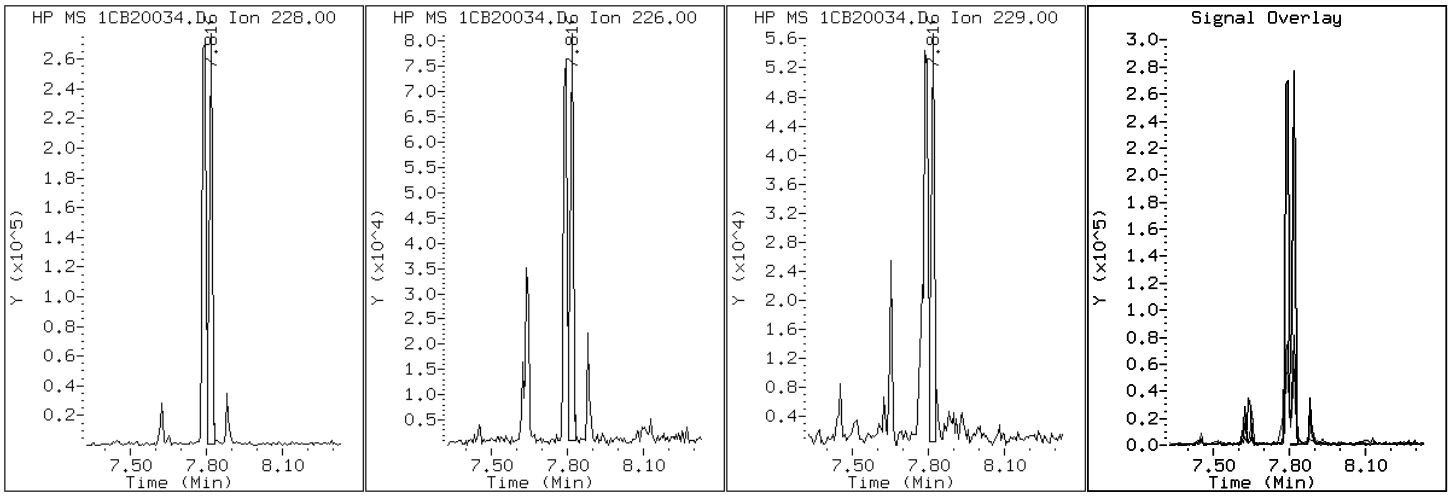
Client ID: CV0971AD-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a

Operator: SCC

19 Chrysene



Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

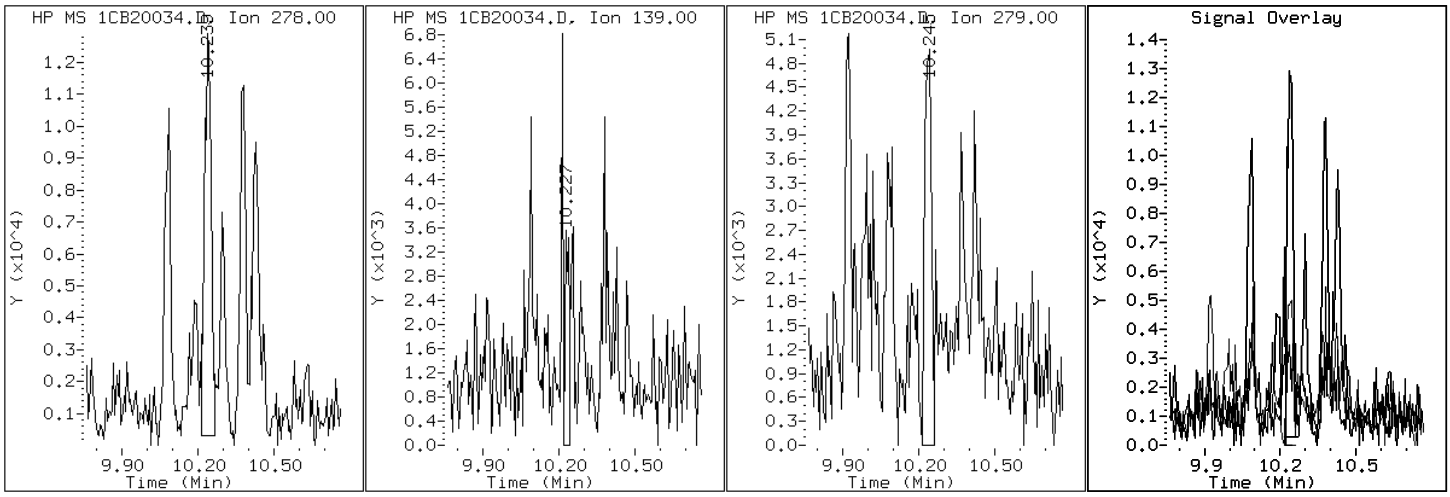
Client ID: CV0971AD-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a

Operator: SCC

25 Dibenzo(a,h)anthracene



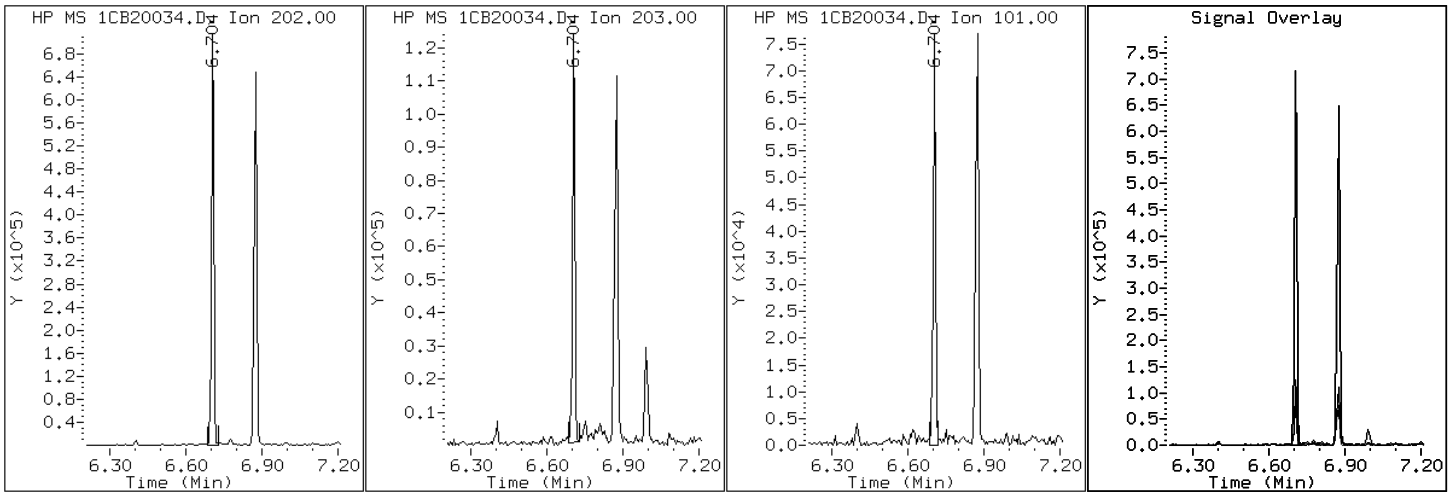
Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a Operator: SCC

15 Fluoranthene



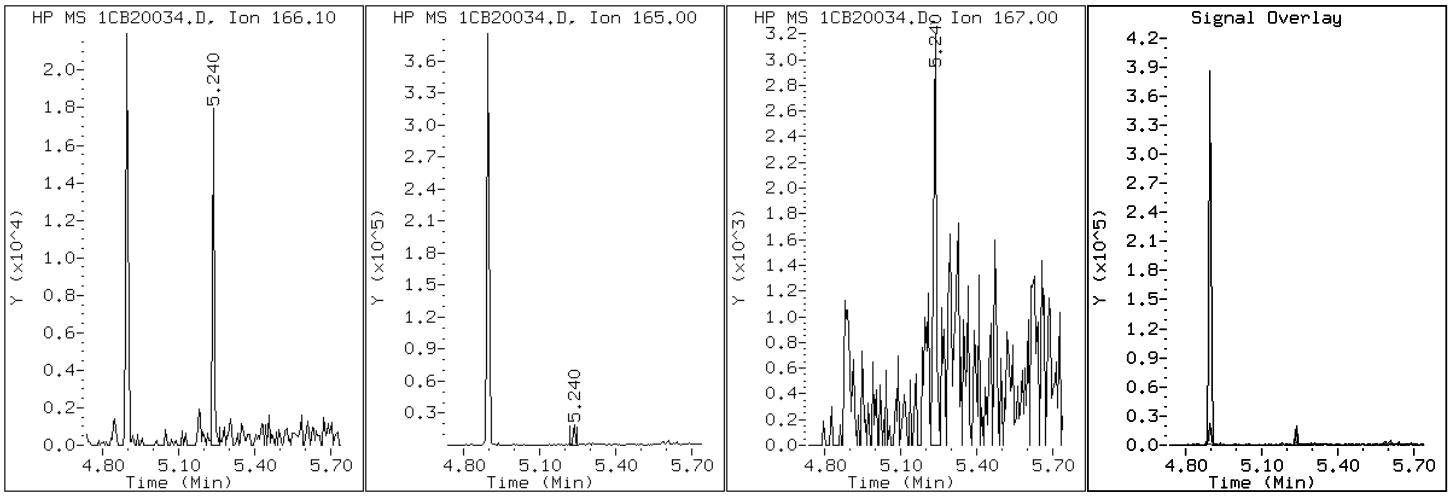
Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a Operator: SCC

9 Fluorene



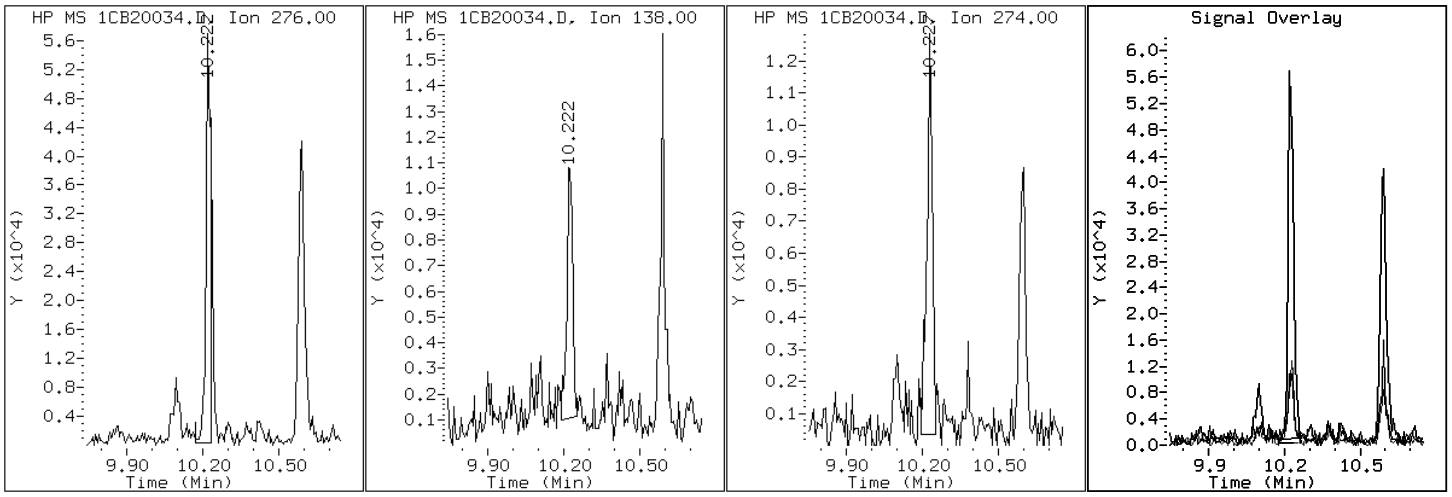
Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a Operator: SCC

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



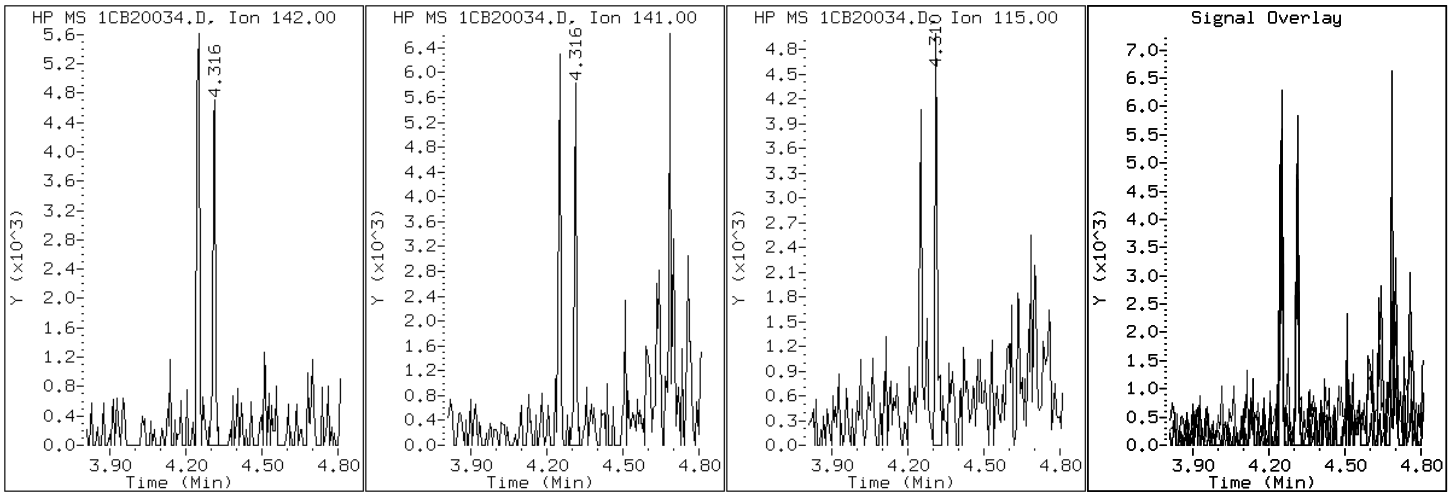
Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

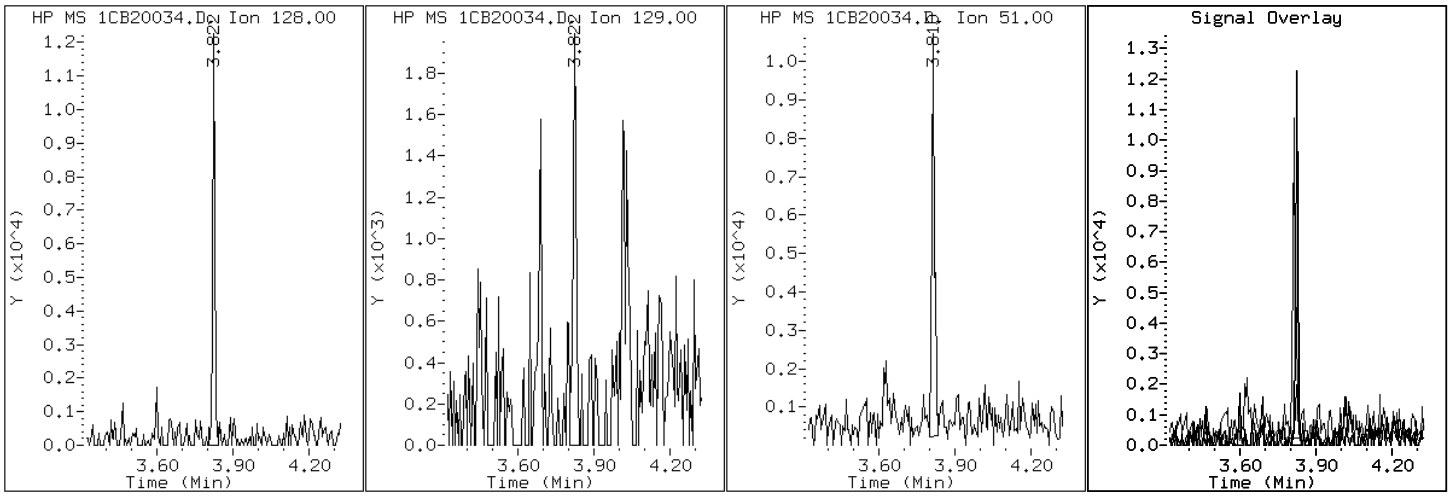
Client ID: CV0971AD-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a

Operator: SCC

2 Naphthalene



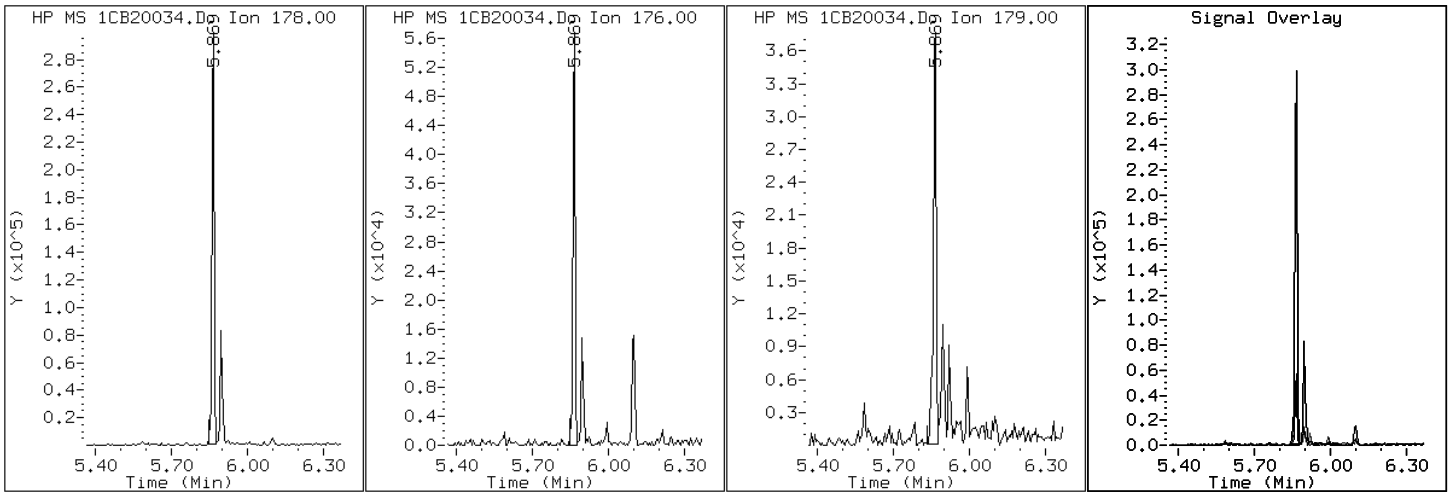
Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a Operator: SCC

11 Phenanthrene



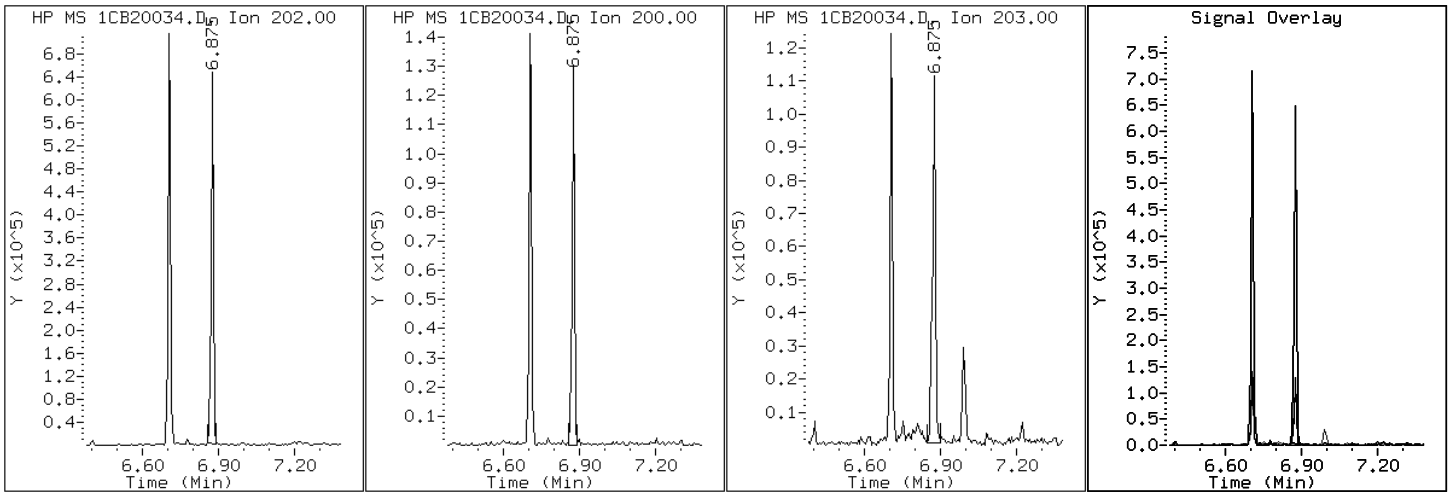
Data File: 1CB20034.D

Date: 20-FEB-2013 23:46

Client ID: CV0971AD-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-19-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20034.D
Inj. Date and Time: 20-FEB-2013 23:46
Instrument ID: BSMC5973.i
Client ID: CV0971AD-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

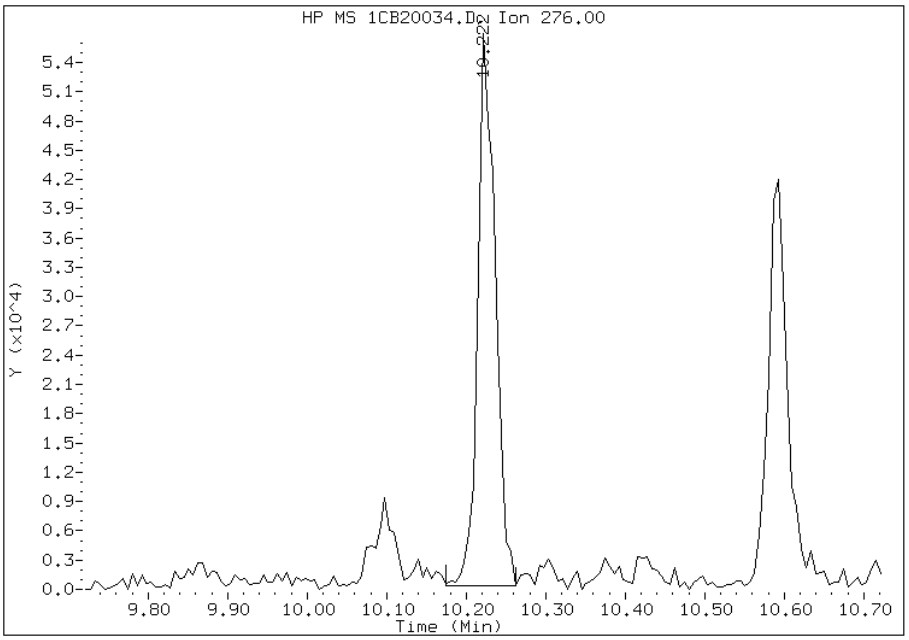
Processing Integration Results

RT: 10.22

Response: 86318

Amount: 1

Conc: 108



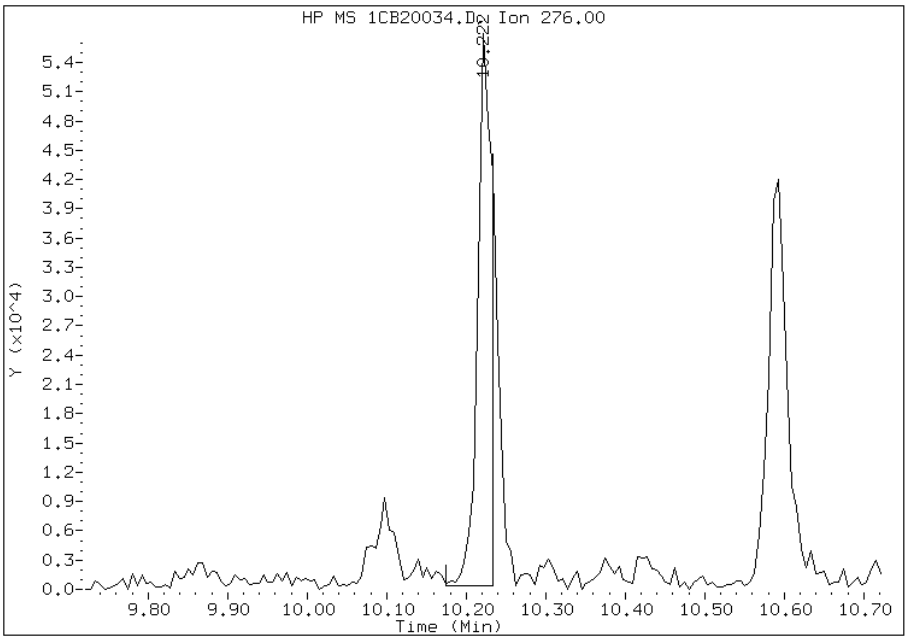
Manual Integration Results

RT: 10.22

Response: 70311

Amount: 1

Conc: 88



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971AE-GS | Lab Sample ID: 680-87447-20

Matrix: Solid | Lab File ID: 1CB20035.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 10:25

Extract. Method: 3546 | Date Extracted: 02/19/2013 14:49

Sample wt/vol: 15.19(g) | Date Analyzed: 02/21/2013 00:05

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

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

% Moisture: 38.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	32
208-96-8	Acenaphthylene	11	J	64	8.0
120-12-7	Anthracene	80		13	6.7
56-55-3	Benzo[a]anthracene	420		13	6.3
50-32-8	Benzo[a]pyrene	410		17	8.4
205-99-2	Benzo[b]fluoranthene	620		20	9.8
191-24-2	Benzo[g,h,i]perylene	260		32	7.1
207-08-9	Benzo[k]fluoranthene	220		13	5.8
218-01-9	Chrysene	400		14	7.2
53-70-3	Dibenz(a,h)anthracene	70		32	6.6
206-44-0	Fluoranthene	870		32	6.4
86-73-7	Fluorene	19	J	32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	240		32	11
90-12-0	1-Methylnaphthalene	17	J	64	7.1
91-57-6	2-Methylnaphthalene	23	J	64	11
91-20-3	Naphthalene	23	J	64	7.1
85-01-8	Phenanthrene	320		13	6.3
129-00-0	Pyrene	750		32	5.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20035.D
Lab Smp Id: 680-87447-A-20-A Client Smp ID: CV0971AE-GS
Inj Date : 21-FEB-2013 00:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-20-a
Misc Info : 680-87447-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	38.532	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2315598	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1850400	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3172321	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	286079	6.15465	659.1700
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3403007	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3172280	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	13185	0.21488	23.0136(Q)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	8473	0.21237	22.7447
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	5868	0.16171	17.3195
5 Acenaphthylene	152	4.810	4.810	(0.982)	7732	0.10503	11.2488
9 Fluorene	166	5.239	5.239	(1.070)	10457	0.17644	18.8964
11 Phenanthrene	178	5.868	5.869	(1.003)	285892	3.01919	323.3585
12 Anthracene	178	5.898	5.904	(1.008)	63748	0.74721	80.0274
13 Carbazole	167	6.004	6.010	(1.026)	43642	0.58892	63.0735

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.704	6.710	(1.146)	747988	8.08401	865.8061
16 Pyrene	202	6.874	6.880	(0.882)	632113	6.97725	747.2706
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	372118	3.96534	424.6923
19 Chrysene	228	7.815	7.827	(1.002)	358455	3.69791	396.0504
20 Benzo(b)fluoranthene	252	8.650	8.662	(0.960)	451675	5.80754	621.9934(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	172417	2.01231	215.5206(QM)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	280551	3.79091	406.0104
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	161470	2.27162	243.2929(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	43799	0.65341	69.9812
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	173272	2.39974	257.0145

QC Flag Legend

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

Data File: 1CB20035.D

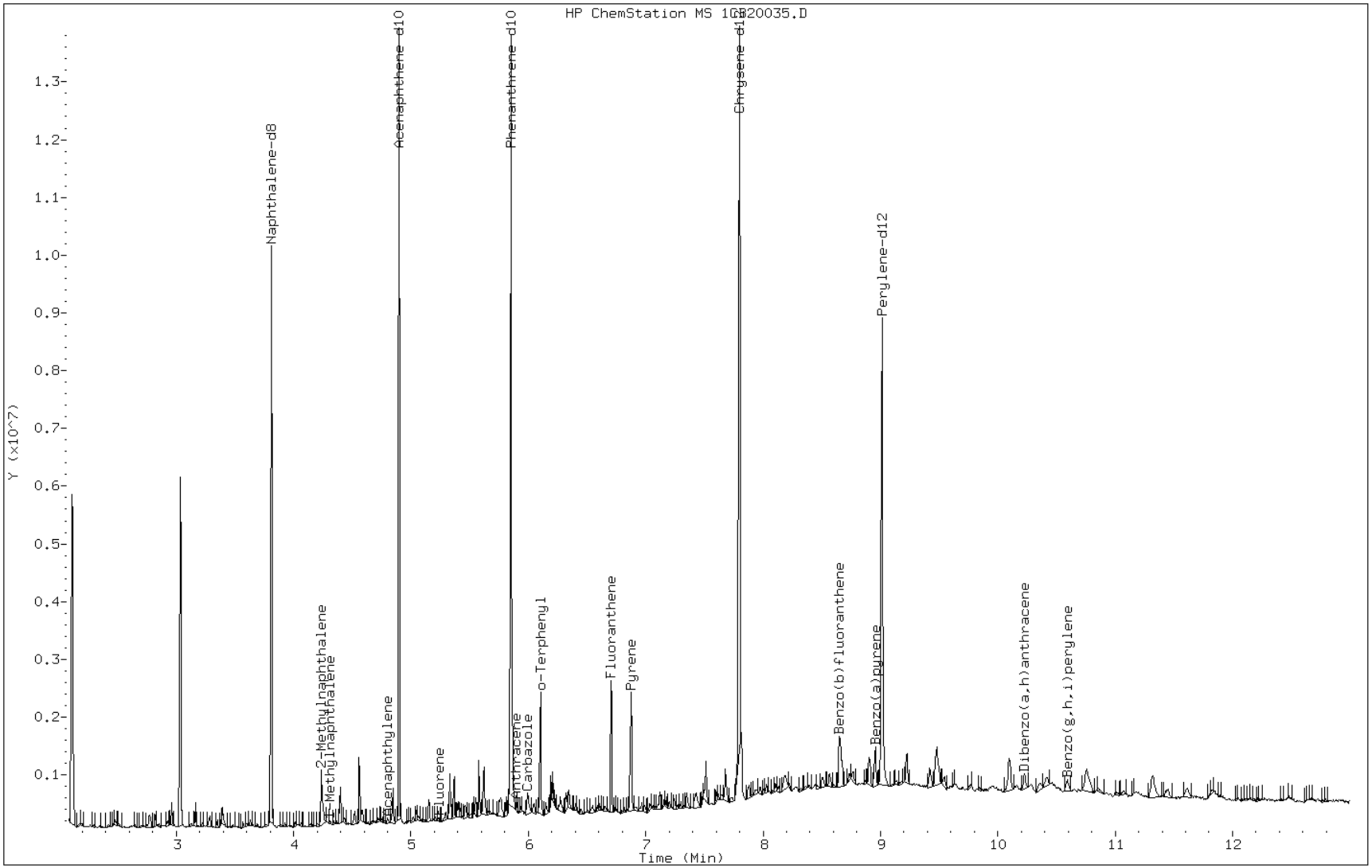
Date: 21-FEB-2013 00:05

Client ID: CV0971AE-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a

Operator: SCC



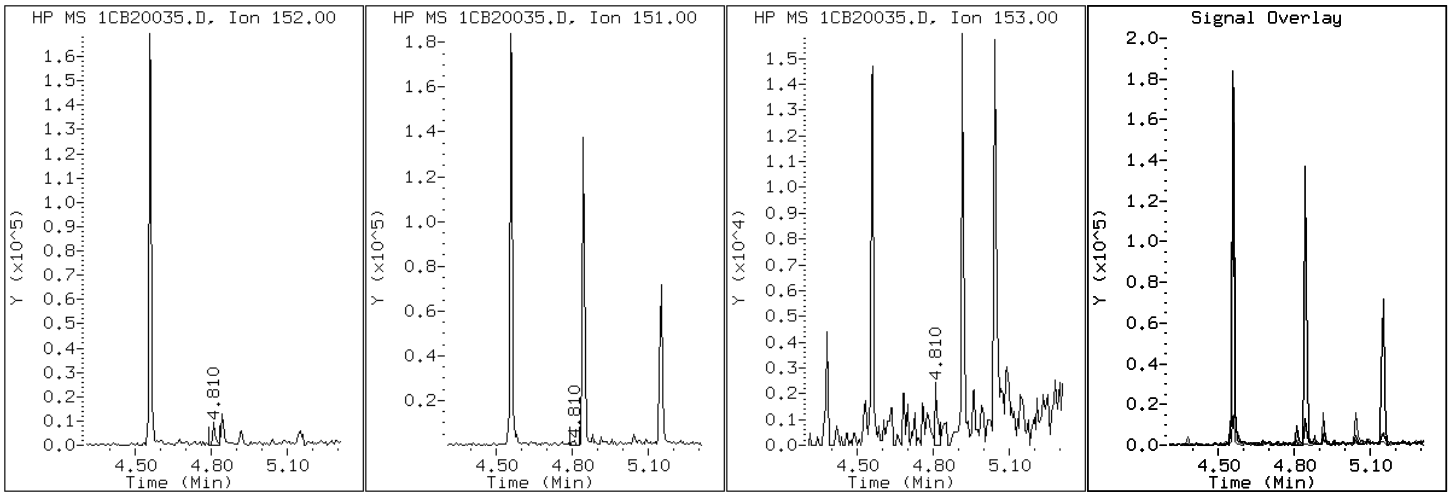
Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

Client ID: CV0971AE-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a Operator: SCC

5 Acenaphthylene



Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

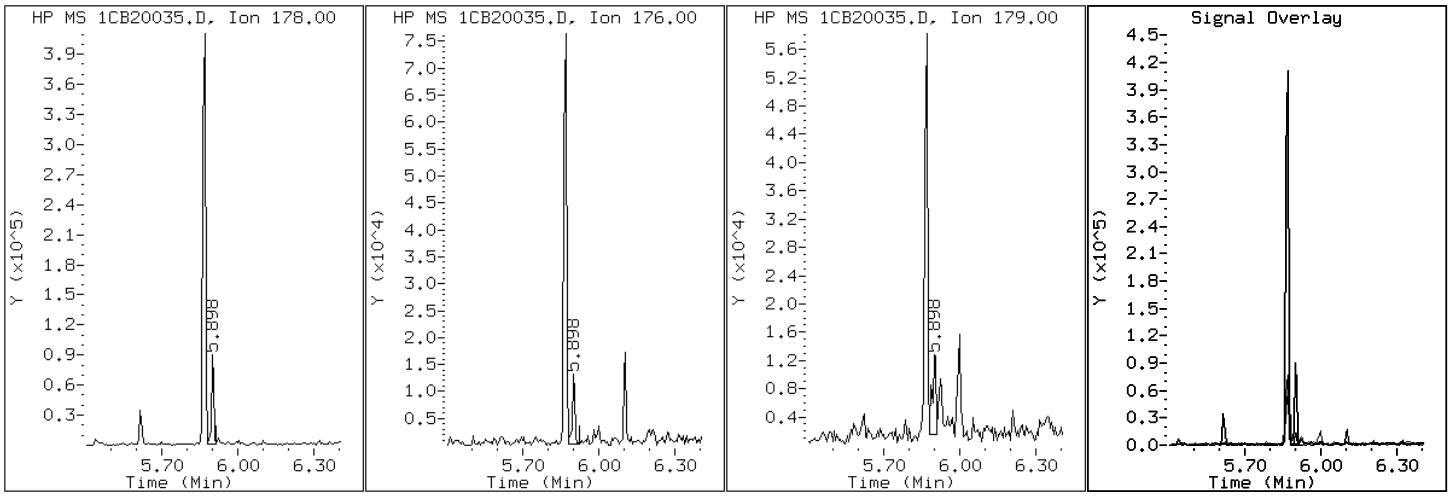
Client ID: CV0971AE-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a

Operator: SCC

12 Anthracene



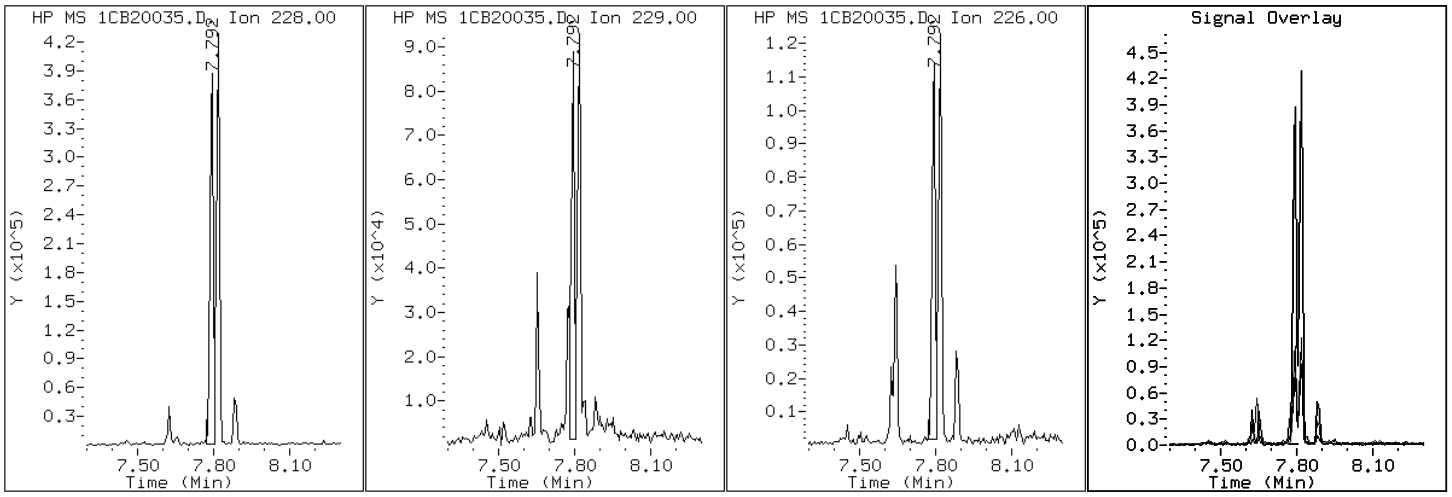
Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

Client ID: CV0971AE-GS | Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a | Operator: SCC

17 Benzo(a)anthracene



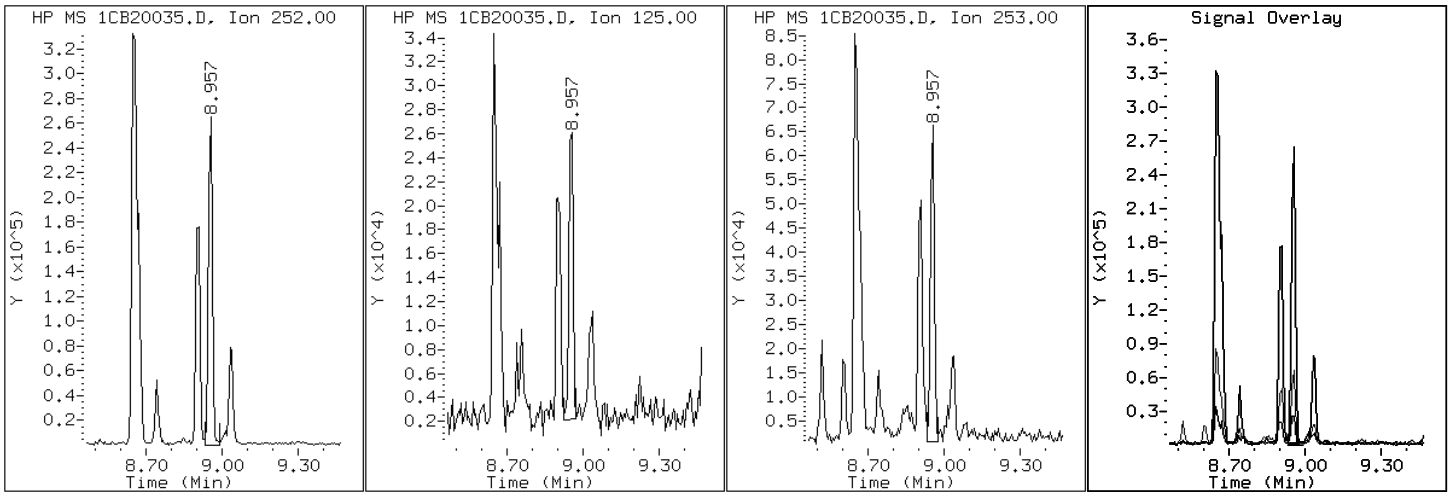
Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

Client ID: CV0971AE-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

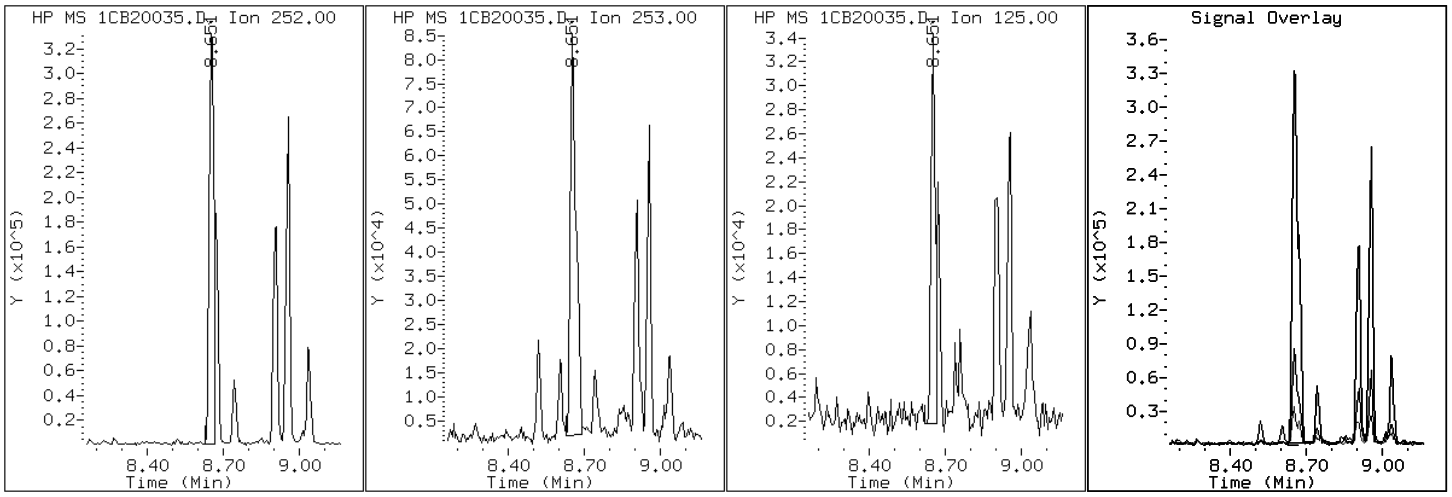
Client ID: CV0971AE-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a

Operator: SCC

20 Benzo(b)fluoranthene



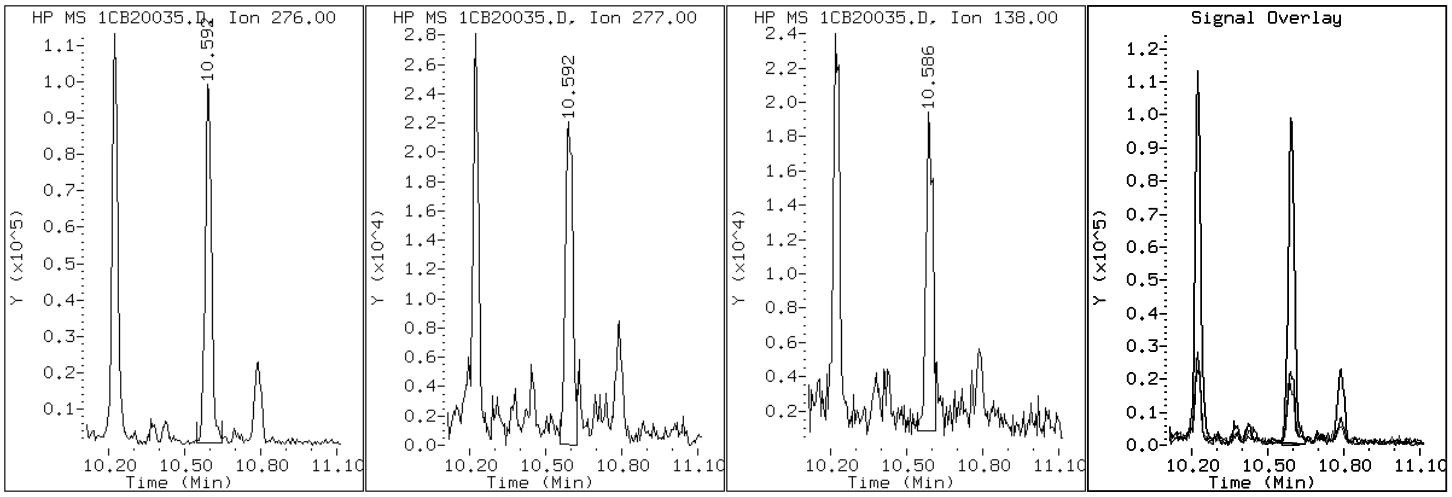
Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

Client ID: CV0971AE-GS | Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a | Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

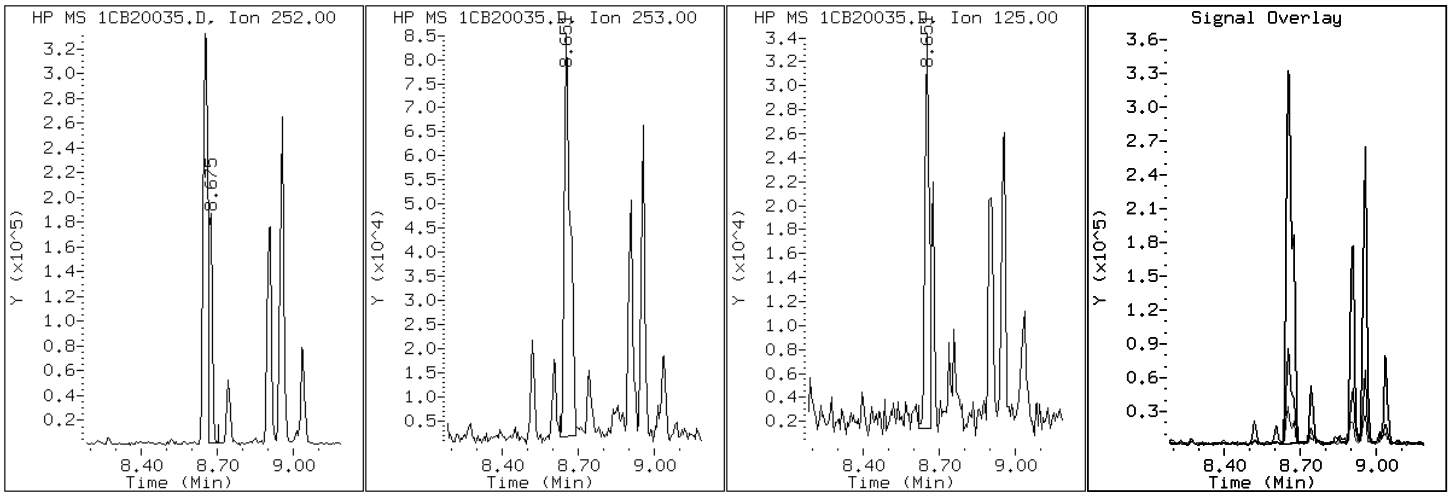
Client ID: CV0971AE-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

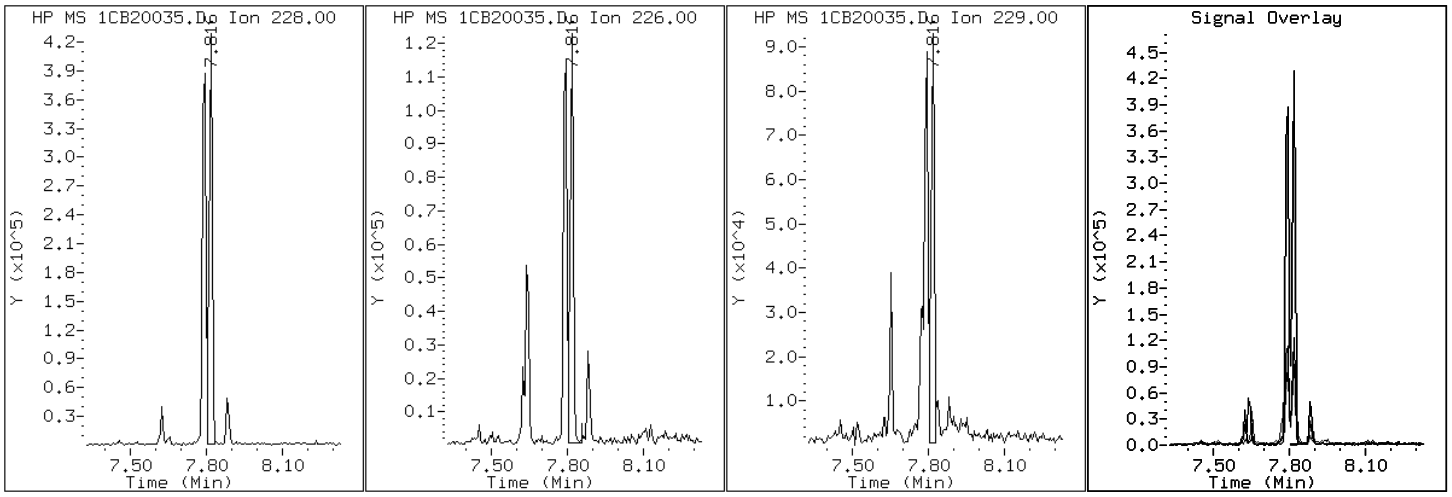
Client ID: CV0971AE-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a

Operator: SCC

19 Chrysene



Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

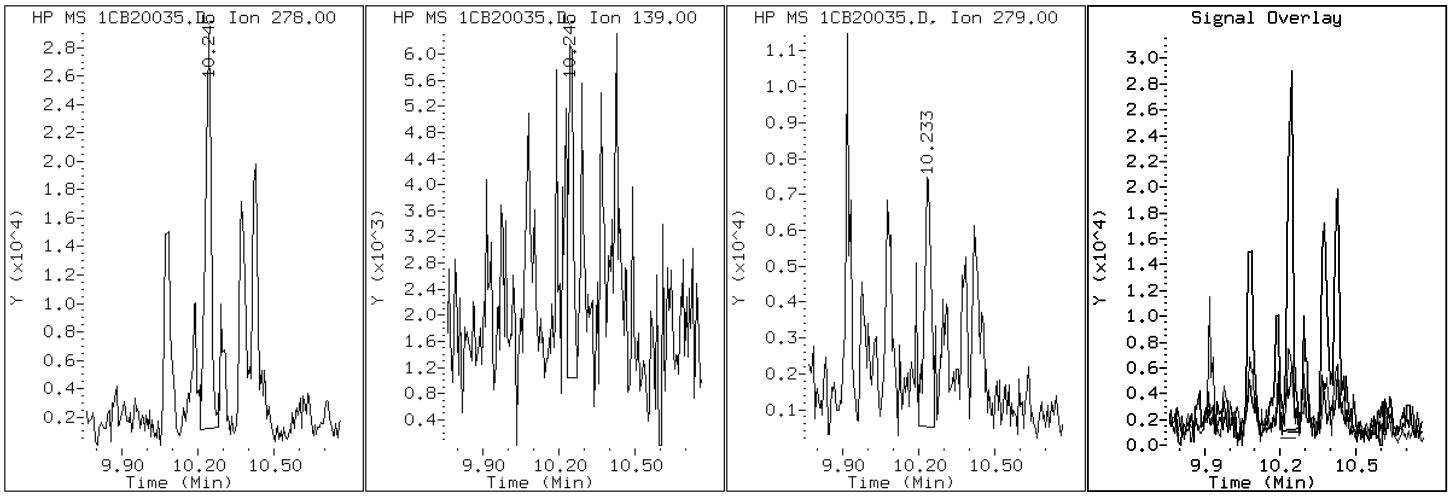
Client ID: CV0971AE-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

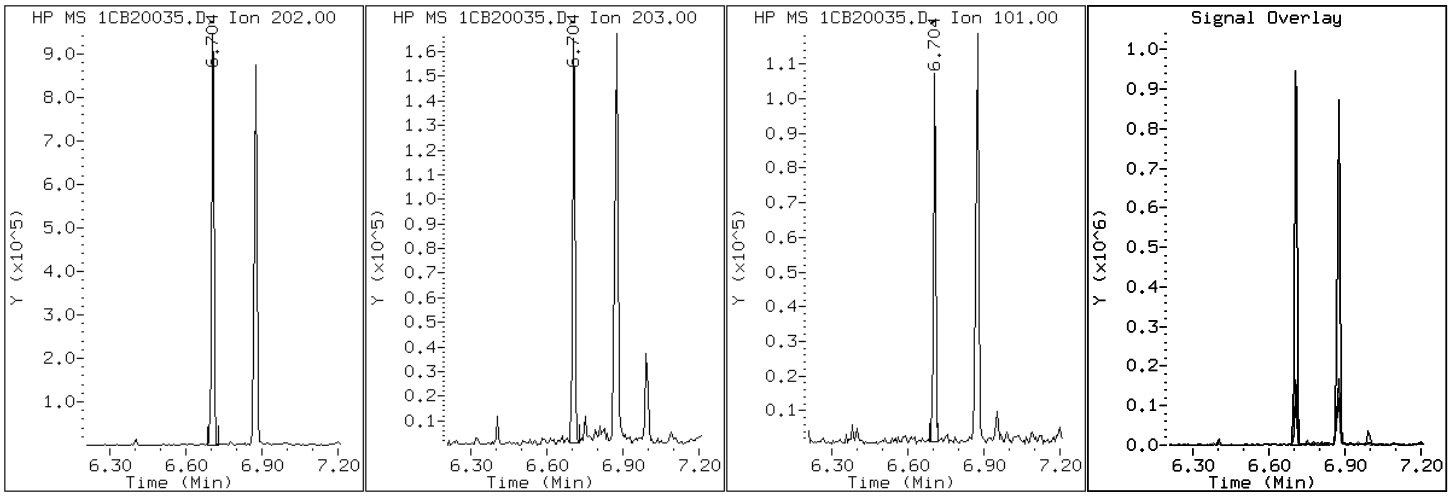
Client ID: CV0971AE-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a

Operator: SCC

15 Fluoranthene



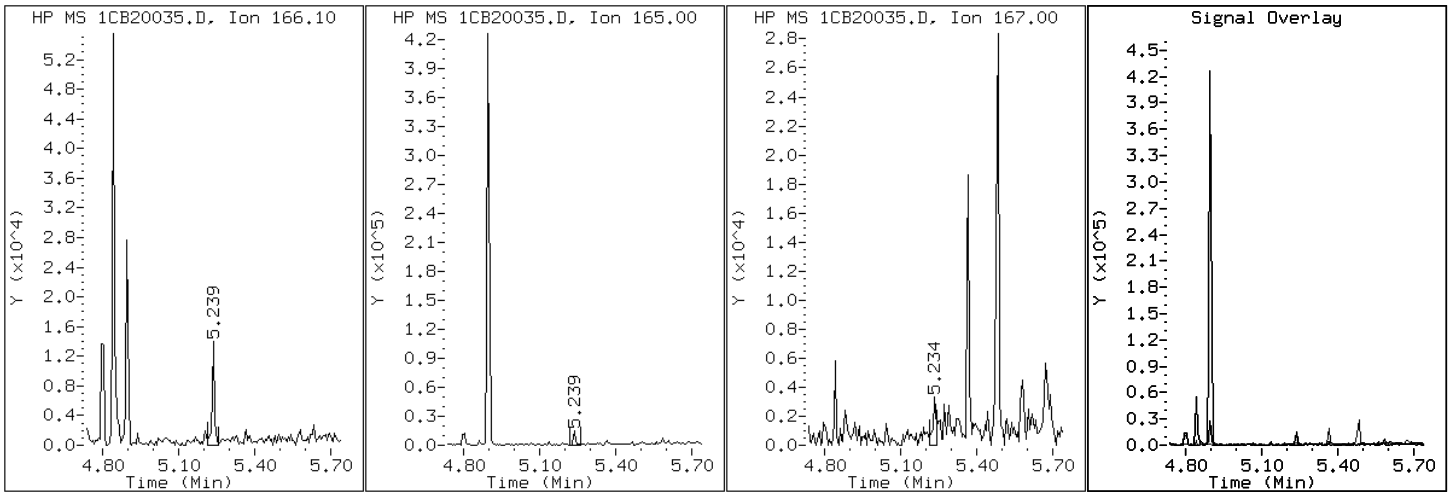
Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

Client ID: CV0971AE-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a Operator: SCC

9 Fluorene



Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

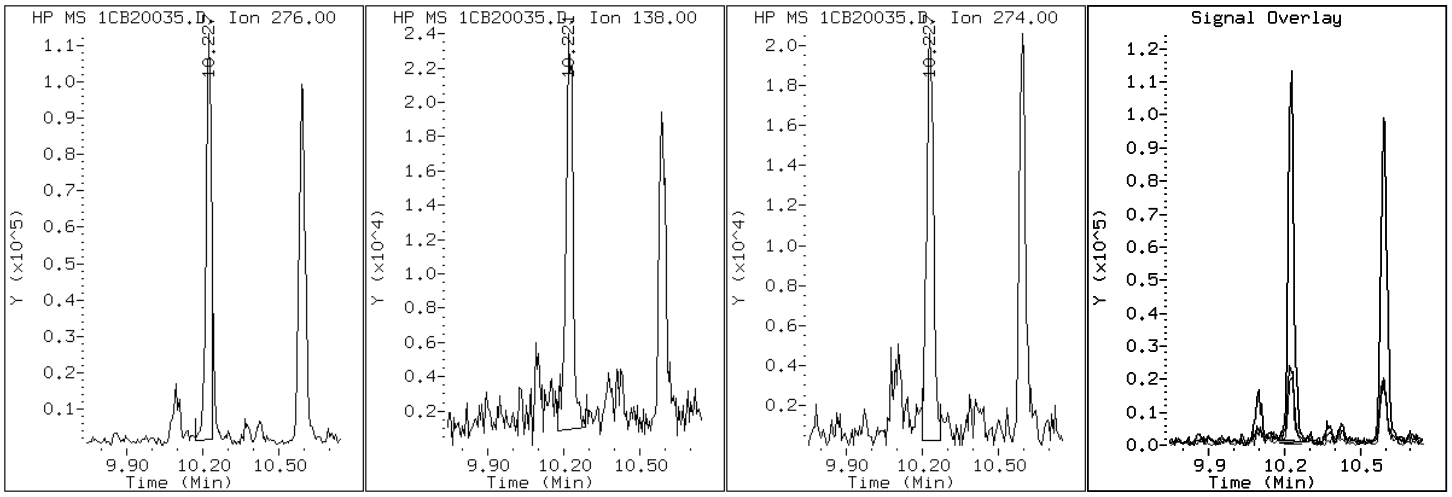
Client ID: CV0971AE-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a

Operator: SCC

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



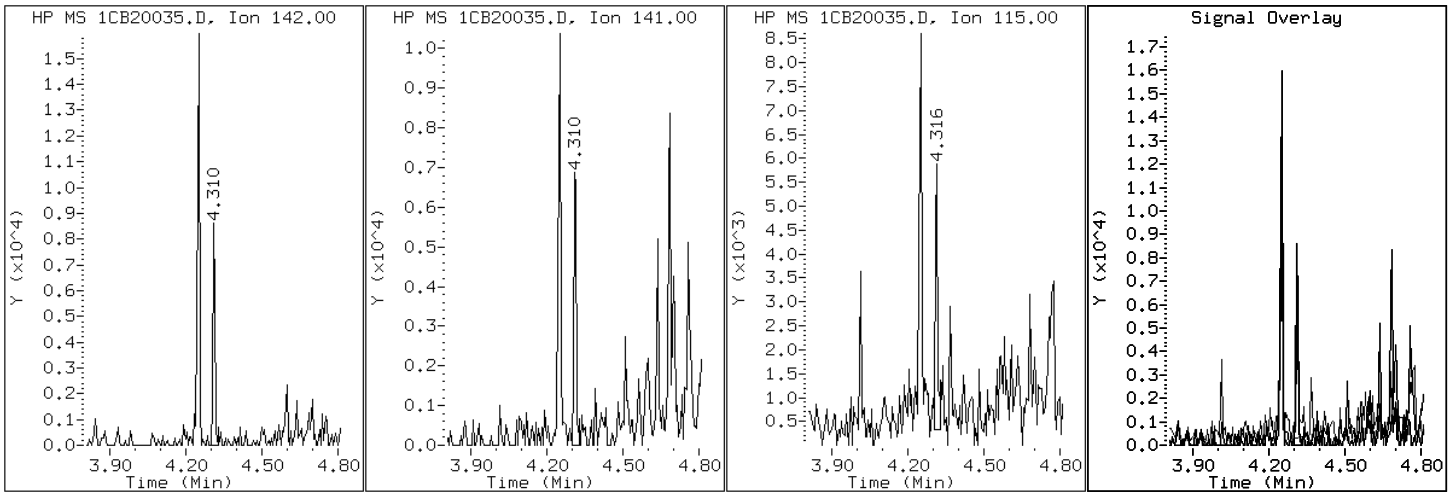
Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

Client ID: CV0971AE-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a Operator: SCC

4 1-Methylnaphthalene



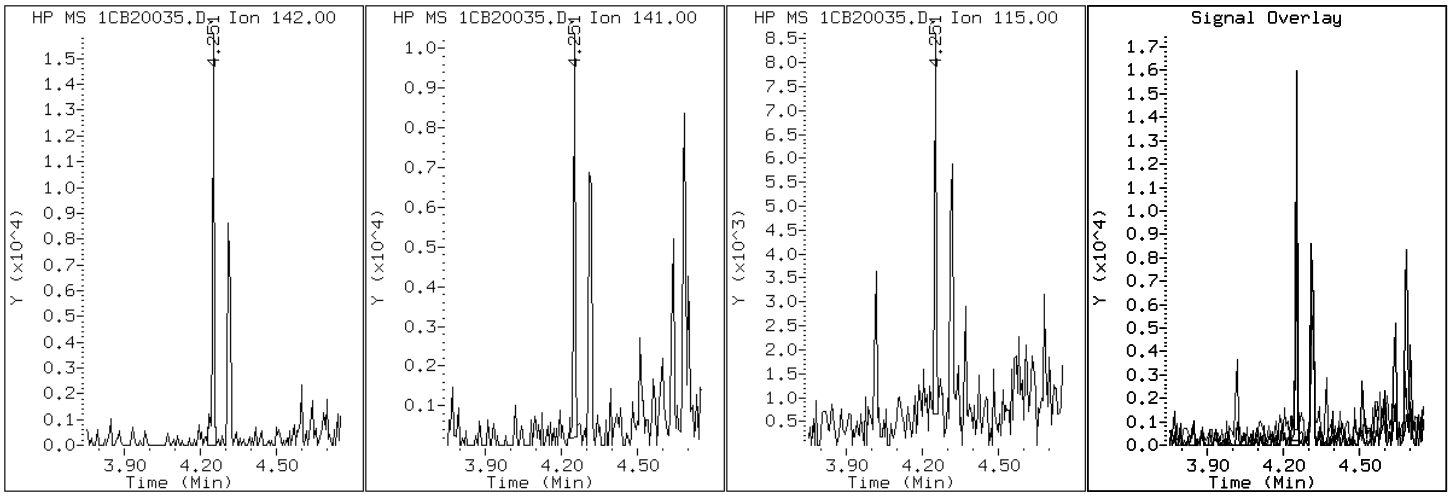
Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

Client ID: CV0971AE-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a Operator: SCC

3 2-Methylnaphthalene



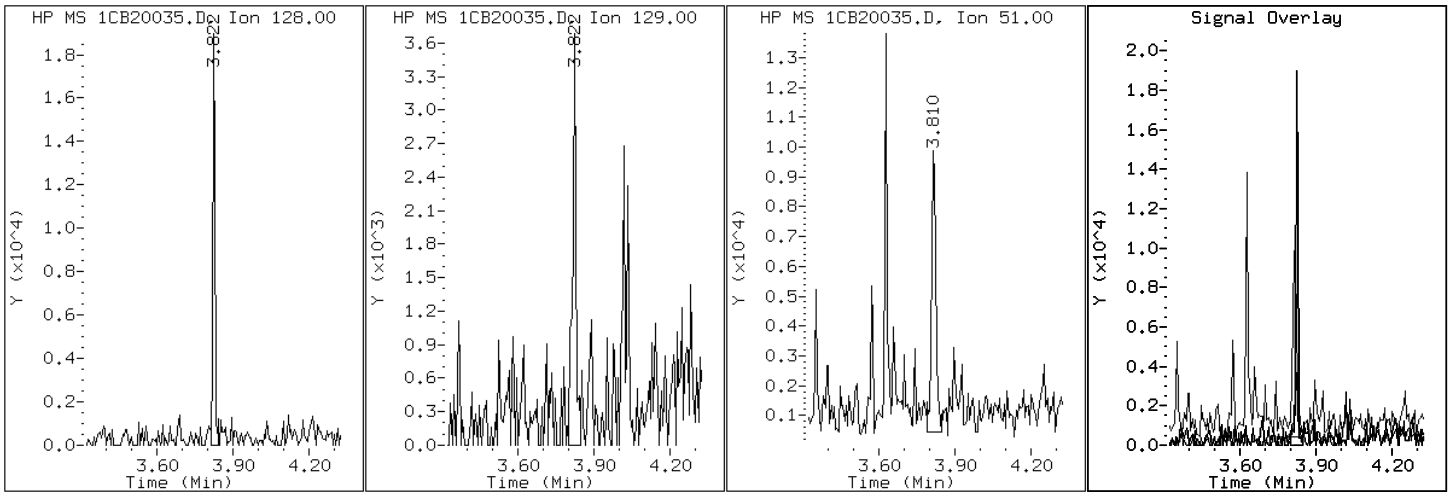
Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

Client ID: CV0971AE-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a Operator: SCC

2 Naphthalene



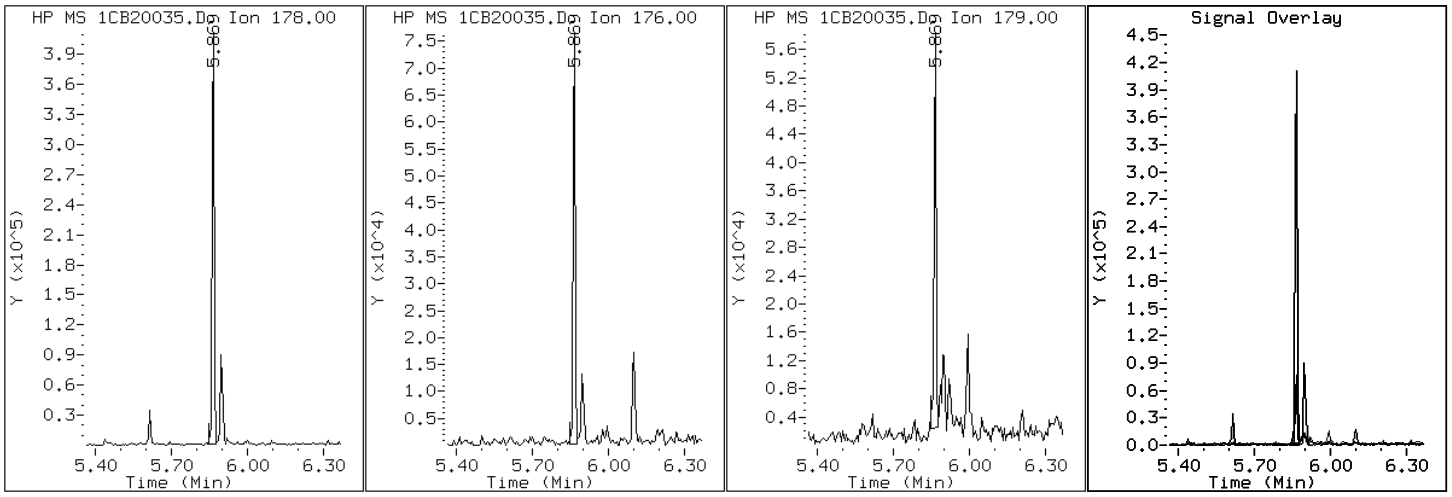
Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

Client ID: CV0971AE-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a Operator: SCC

11 Phenanthrene



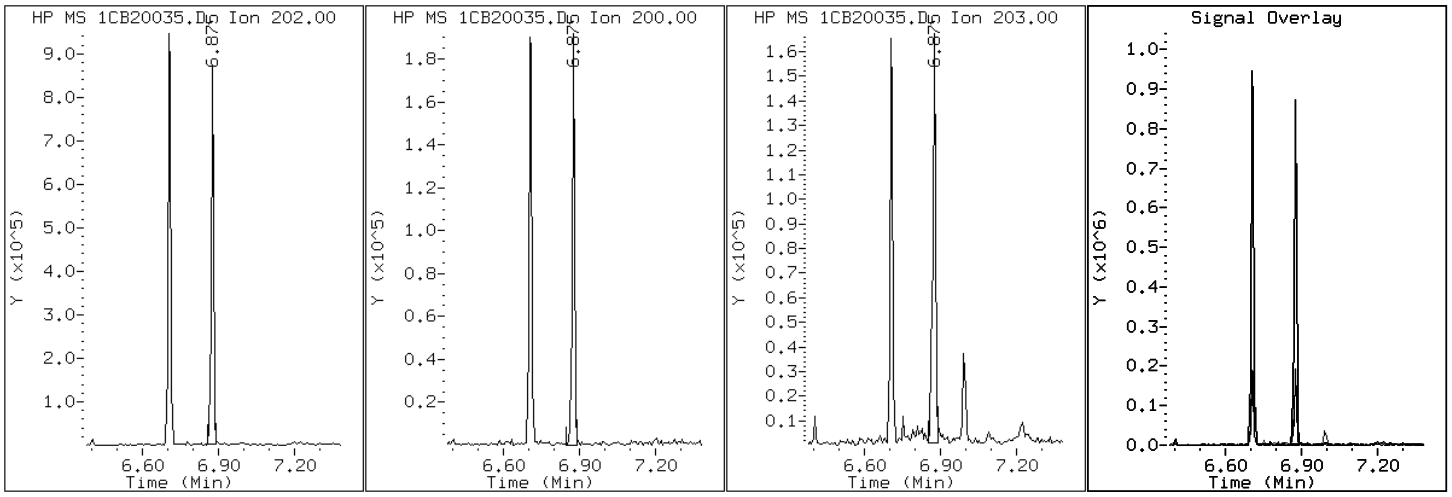
Data File: 1CB20035.D

Date: 21-FEB-2013 00:05

Client ID: CV0971AE-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-20-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20035.D
Inj. Date and Time: 21-FEB-2013 00:05
Instrument ID: BSMC5973.i
Client ID: CV0971AE-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

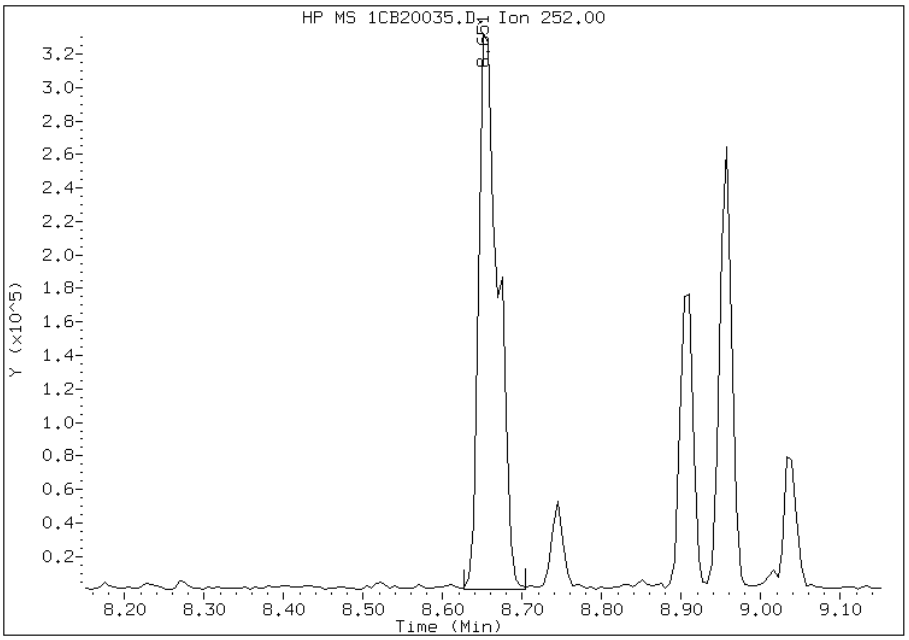
Processing Integration Results

RT: 8.65

Response: 566921

Amount: 7

Conc: 781



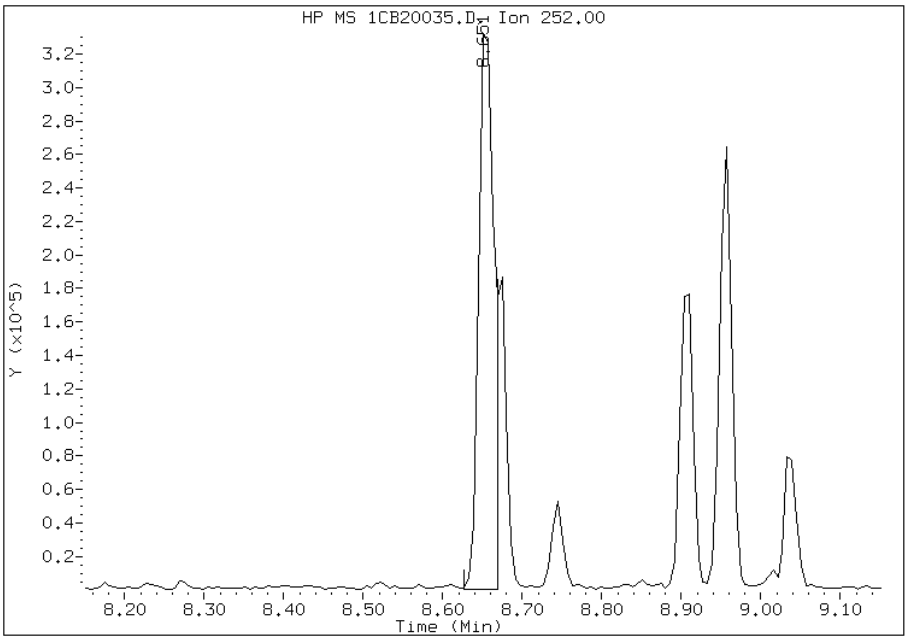
Manual Integration Results

RT: 8.65

Response: 451675

Amount: 6

Conc: 622



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:58
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20035.D
Inj. Date and Time: 21-FEB-2013 00:05
Instrument ID: BSMC5973.i
Client ID: CV0971AE-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

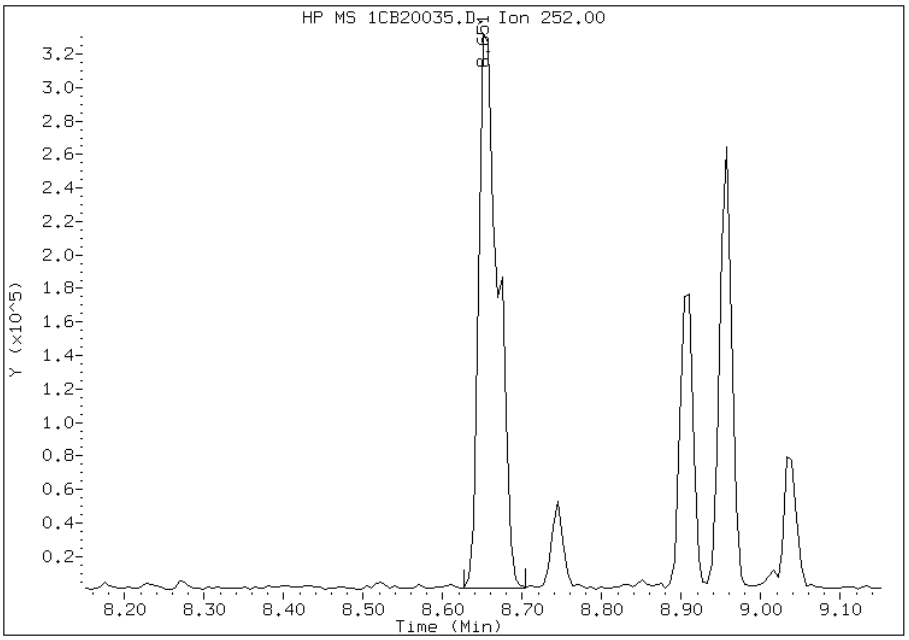
Processing Integration Results

RT: 8.65

Response: 565876

Amount: 7

Conc: 707



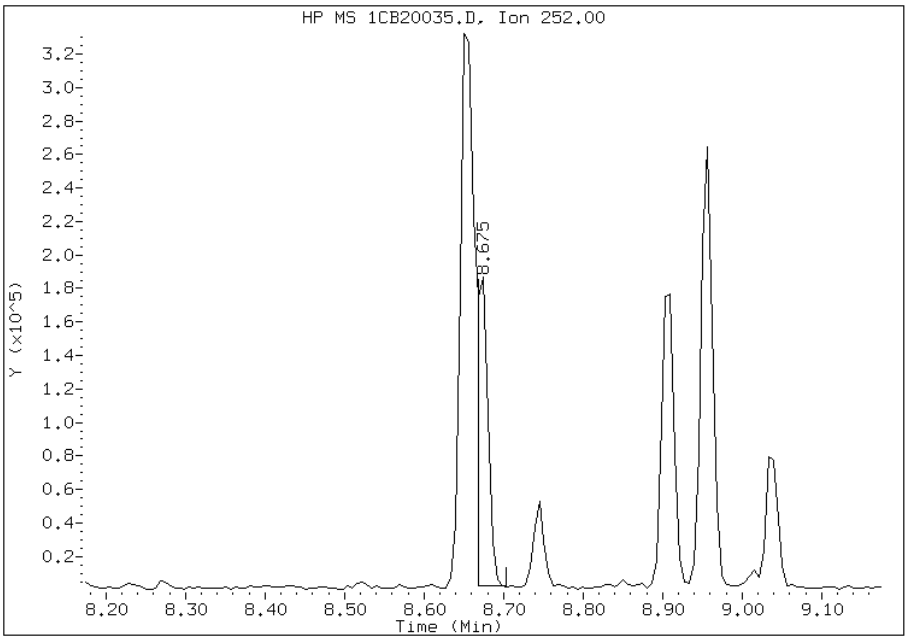
Manual Integration Results

RT: 8.67

Response: 172417

Amount: 2

Conc: 216



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20035.D
Inj. Date and Time: 21-FEB-2013 00:05
Instrument ID: BSMC5973.i
Client ID: CV0971AE-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

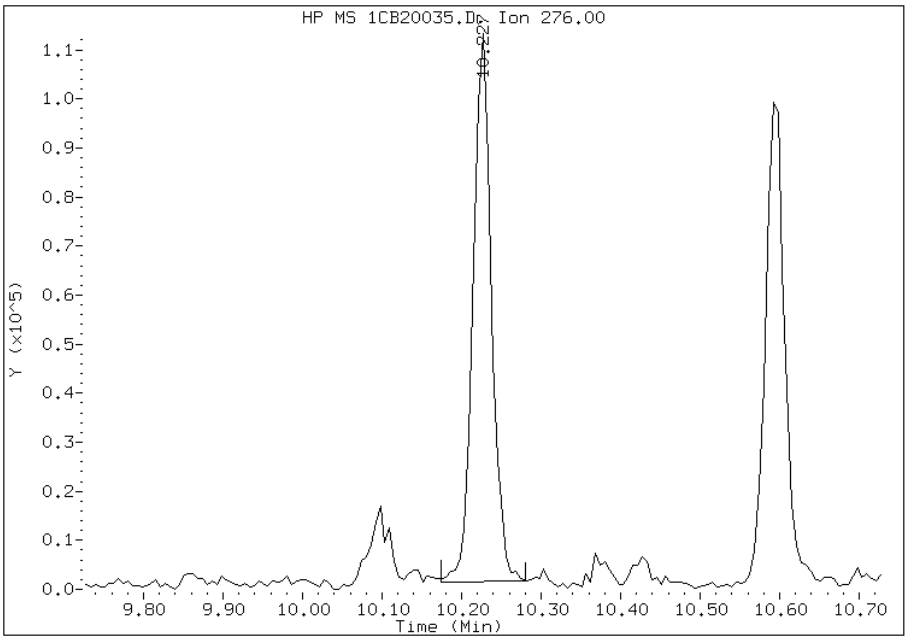
Processing Integration Results

RT: 10.23

Response: 178257

Amount: 3

Conc: 269



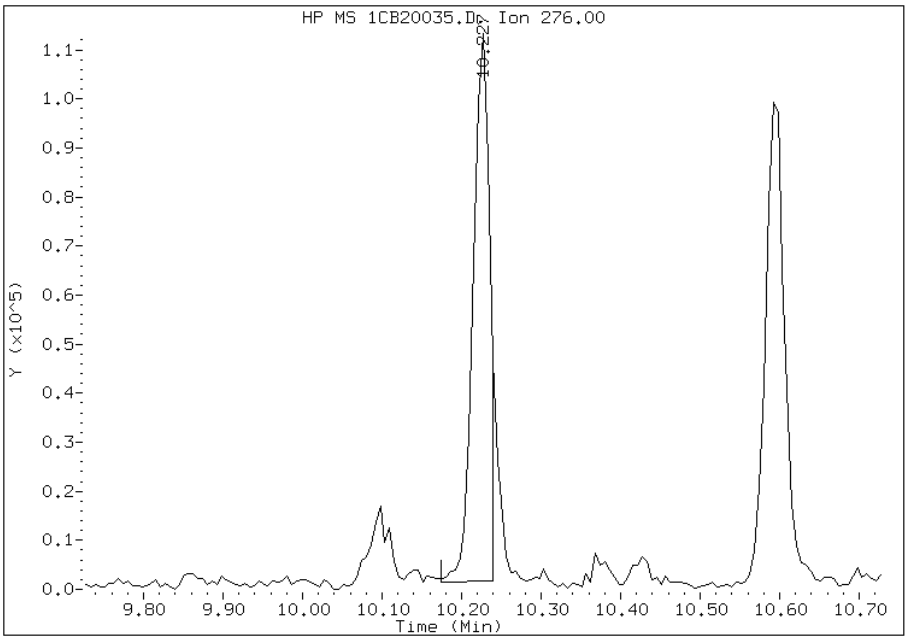
Manual Integration Results

RT: 10.23

Response: 161470

Amount: 2

Conc: 243



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971AF-GS | Lab Sample ID: 680-87447-21

Matrix: Solid | Lab File ID: 1CB20036.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 10:27

Extract. Method: 3546 | Date Extracted: 02/19/2013 14:49

Sample wt/vol: 15.01(g) | Date Analyzed: 02/21/2013 00:23

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

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

% Moisture: 37.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	85	J	160	32
208-96-8	Acenaphthylene	8.0	J	64	8.0
120-12-7	Anthracene	290		13	6.7
56-55-3	Benzo[a]anthracene	980		13	6.2
50-32-8	Benzo[a]pyrene	840		17	8.3
205-99-2	Benzo[b]fluoranthene	1300		19	9.7
191-24-2	Benzo[g,h,i]perylene	490		32	7.0
207-08-9	Benzo[k]fluoranthene	490		13	5.7
218-01-9	Chrysene	910		14	7.2
53-70-3	Dibenz(a,h)anthracene	140		32	6.5
206-44-0	Fluoranthene	2300		32	6.4
86-73-7	Fluorene	75		32	6.5
193-39-5	Indeno[1,2,3-cd]pyrene	500		32	11
90-12-0	1-Methylnaphthalene	23	J	64	7.0
91-57-6	2-Methylnaphthalene	30	J	64	11
91-20-3	Naphthalene	50	J	64	7.0
85-01-8	Phenanthrene	1200		13	6.2
129-00-0	Pyrene	2000		32	5.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20036.D
Lab Smp Id: 680-87447-A-21-A Client Smp ID: CV0971AF-GS
Inj Date : 21-FEB-2013 00:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-21-a
Misc Info : 680-87447-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	37.294	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2357253	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1802761	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3292391	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	293571	6.08550	646.5601
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3447147	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3271701	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	29364	0.47009	49.9455
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	11505	0.28326	30.0957
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	8048	0.21787	23.1478
5 Acenaphthylene	152	4.810	4.810	(0.982)	5402	0.07532	8.0023
7 Acenaphthene	154	4.916	4.922	(1.004)	36012	0.80057	85.0578
9 Fluorene	166	5.239	5.239	(1.070)	40605	0.70321	74.7134
11 Phenanthrene	178	5.868	5.869	(1.003)	1127595	11.4738	1219.0450
12 Anthracene	178	5.898	5.904	(1.008)	238691	2.69576	286.4131

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.004	6.010	(1.026)	198026	2.57476	273.5577
15 Fluoranthene	202	6.710	6.710	(1.147)	2063256	21.4858	2282.7768
16 Pyrene	202	6.874	6.880	(0.882)	1694141	18.4604	1961.3468
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	873782	9.19192	976.6040
19 Chrysene	228	7.815	7.827	(1.002)	843026	8.58551	912.1755
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	978389	12.1976	1295.9486(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	409170	4.63038	491.9591(QM)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	604440	7.91922	841.3855
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	346341	4.72439	501.9471(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	90327	1.30659	138.8199
26 Benzo(g,h,i)perylene	276	10.598	10.615	(1.175)	344975	4.63256	492.1906(M)

QC Flag Legend

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

Data File: 1CB20036.D

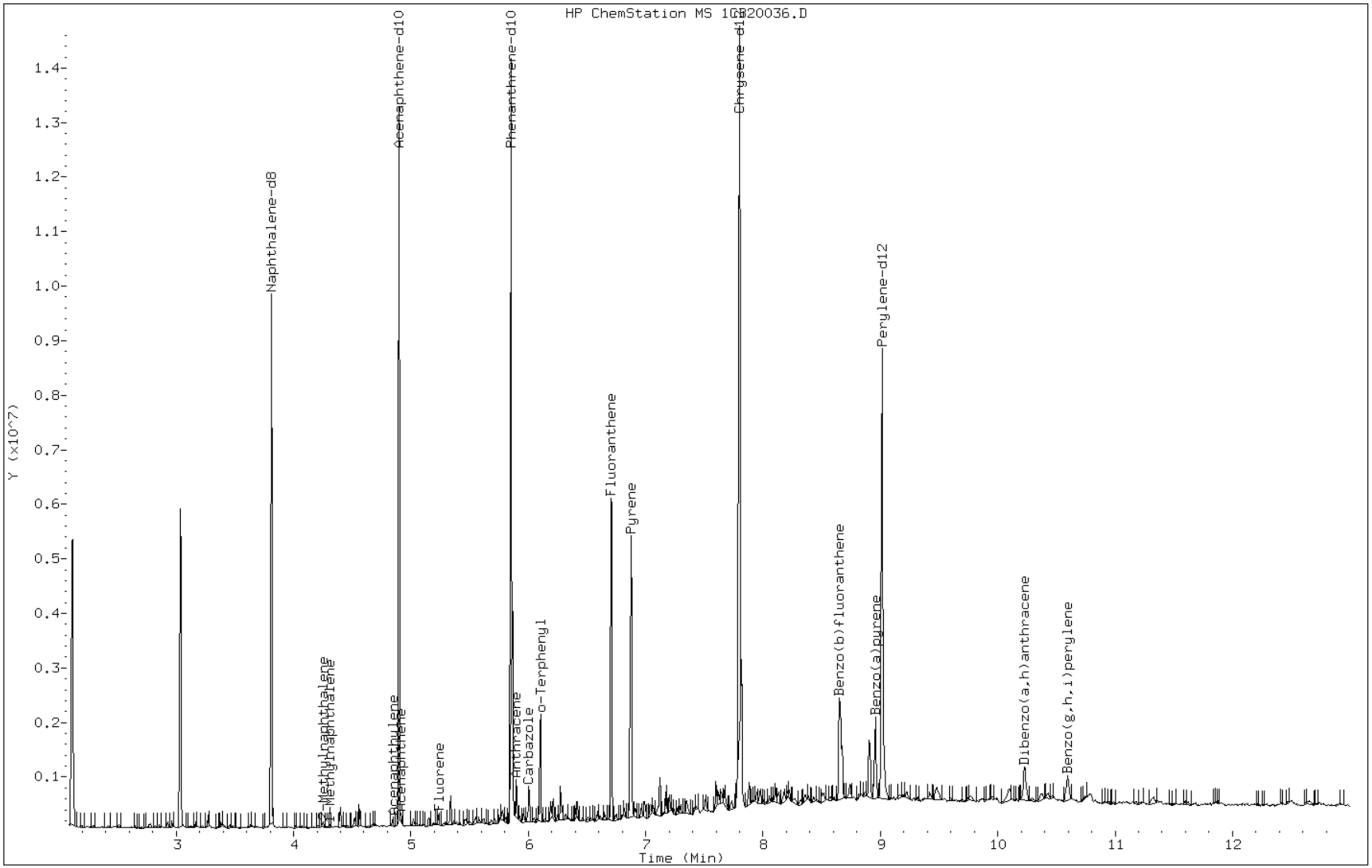
Date: 21-FEB-2013 00:23

Client ID: CV0971AF-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a

Operator: SCC



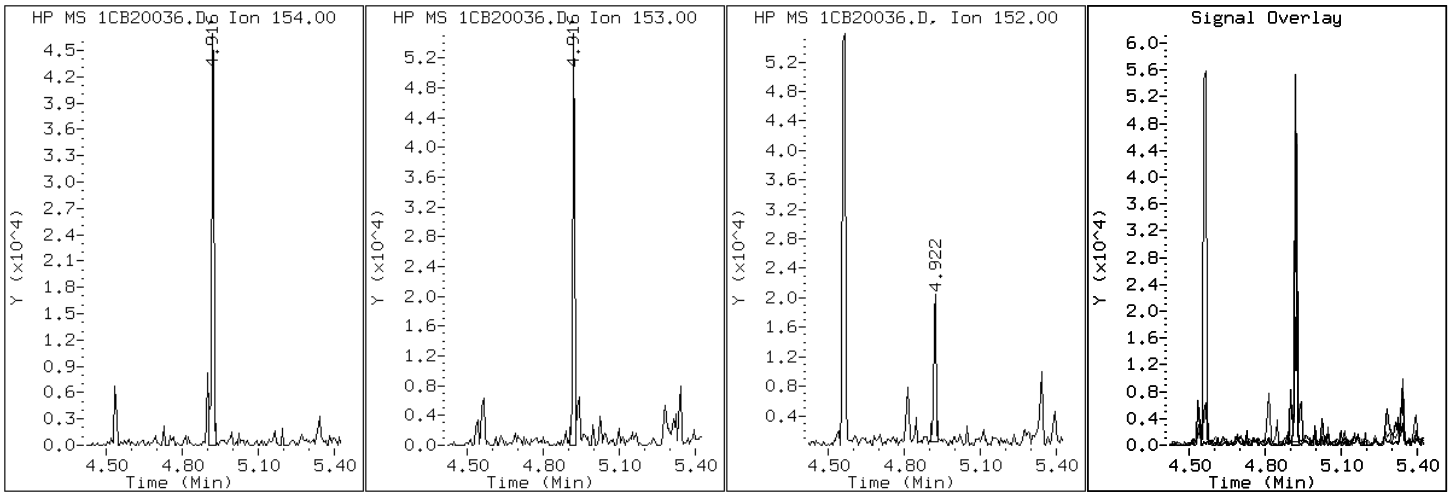
Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

Client ID: CV0971AF-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a Operator: SCC

7 Acenaphthene



Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

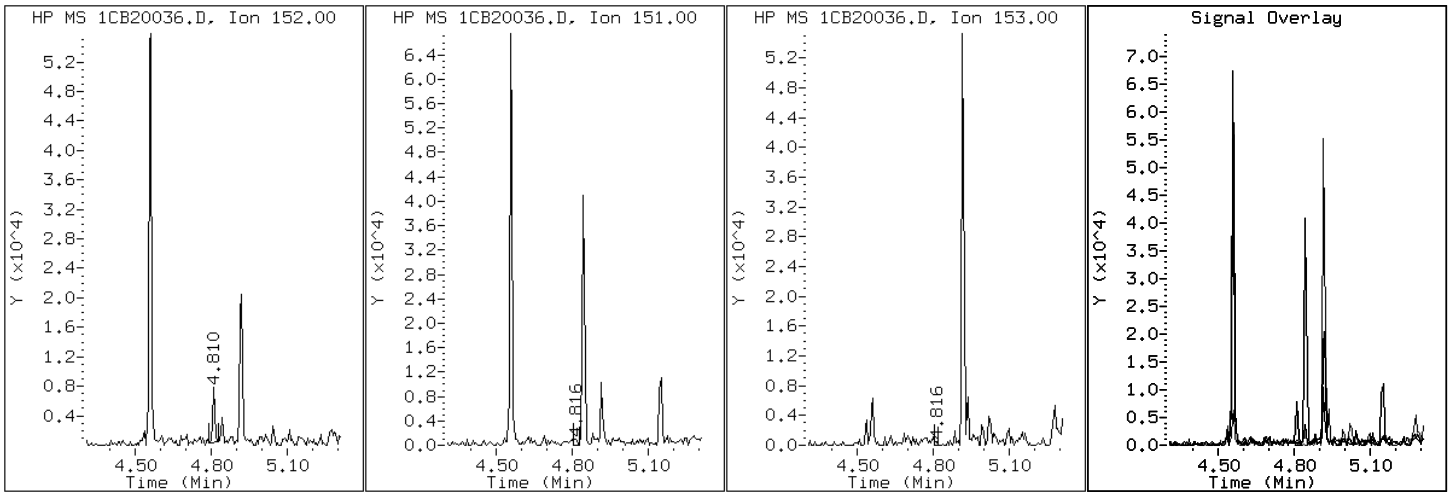
Client ID: CV0971AF-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a

Operator: SCC

5 Acenaphthylene



Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

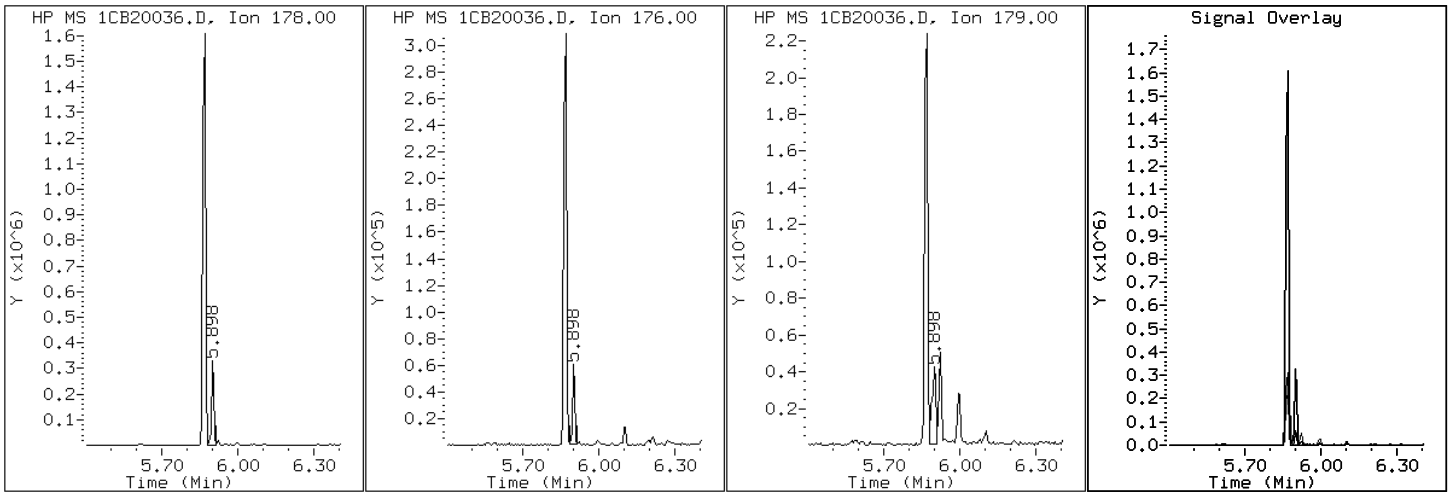
Client ID: CV0971AF-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a

Operator: SCC

12 Anthracene



Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

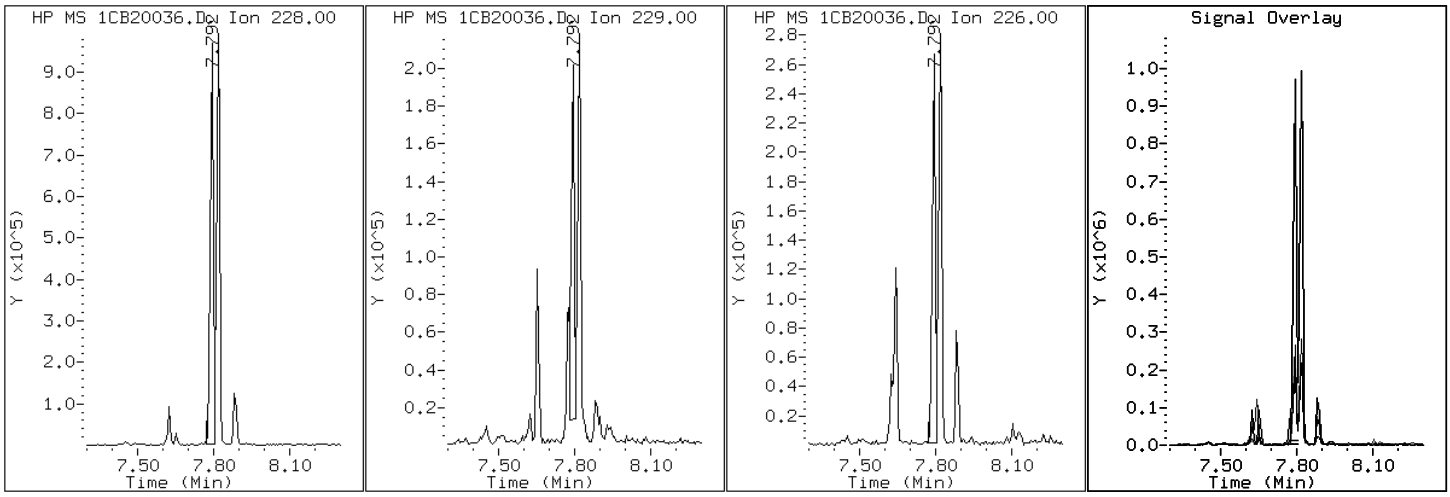
Client ID: CV0971AF-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a

Operator: SCC

17 Benzo(a)anthracene



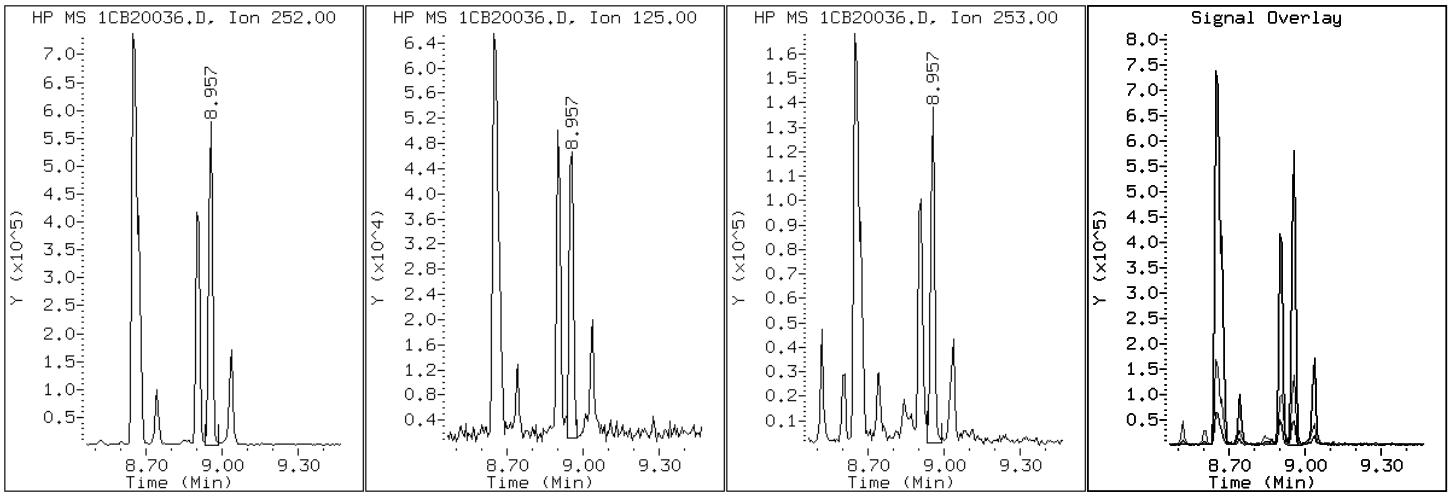
Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

Client ID: CV0971AF-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

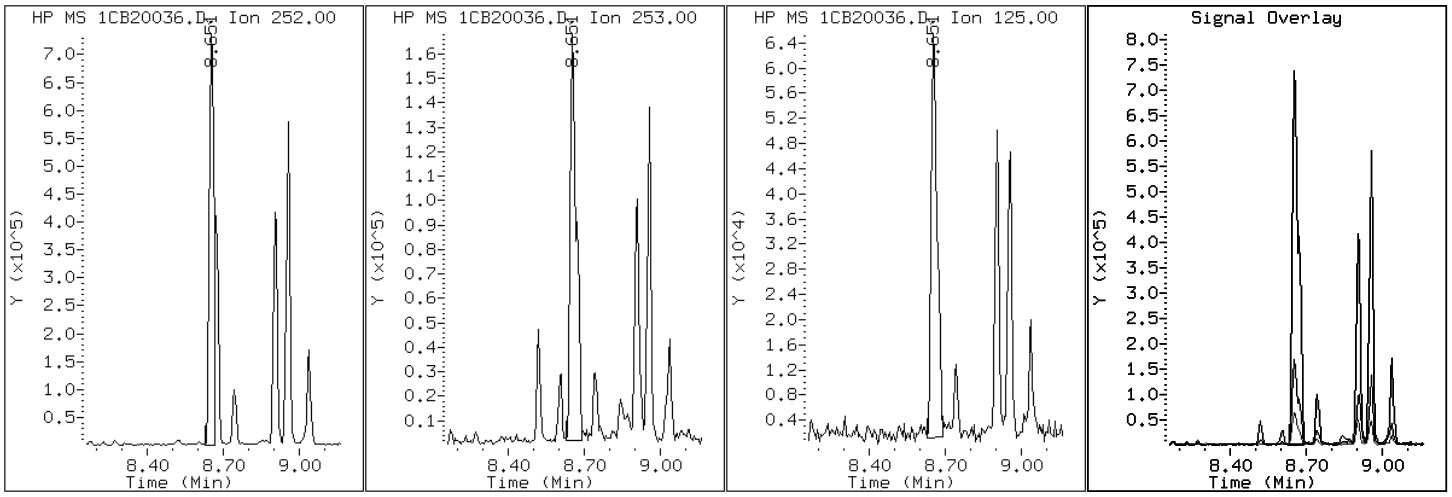
Client ID: CV0971AF-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a

Operator: SCC

20 Benzo(b)fluoranthene



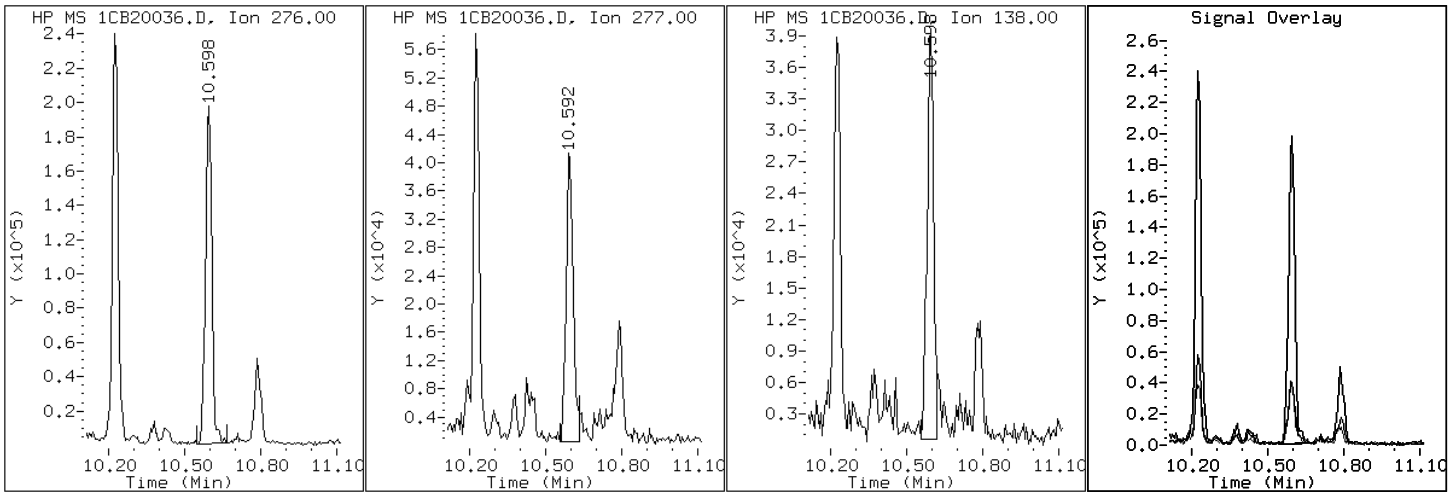
Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

Client ID: CV0971AF-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

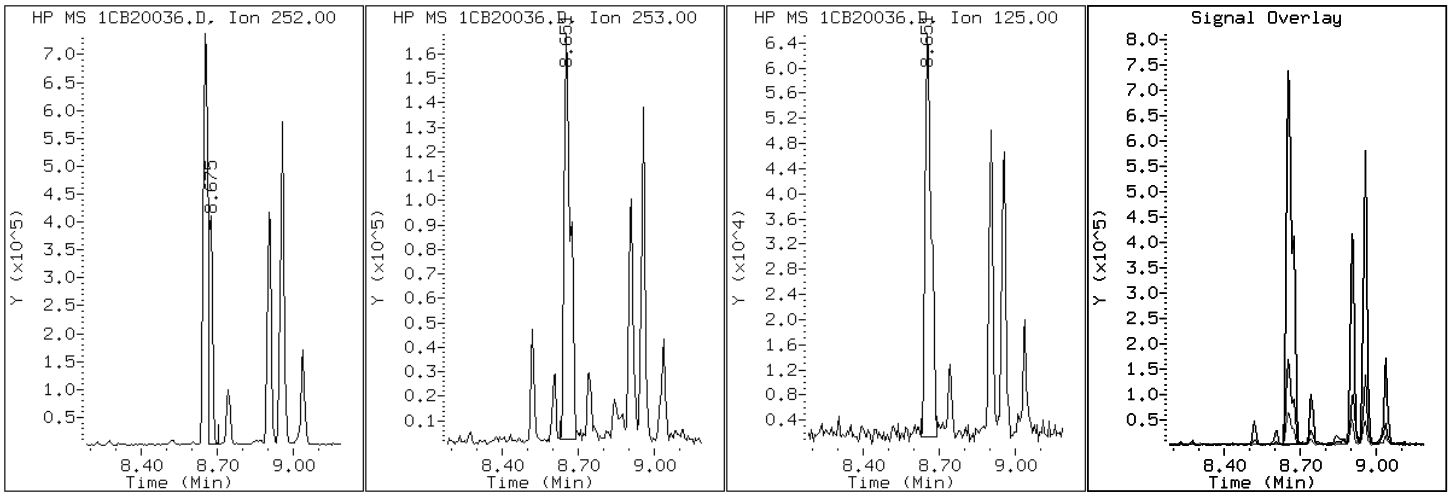
Client ID: CV0971AF-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

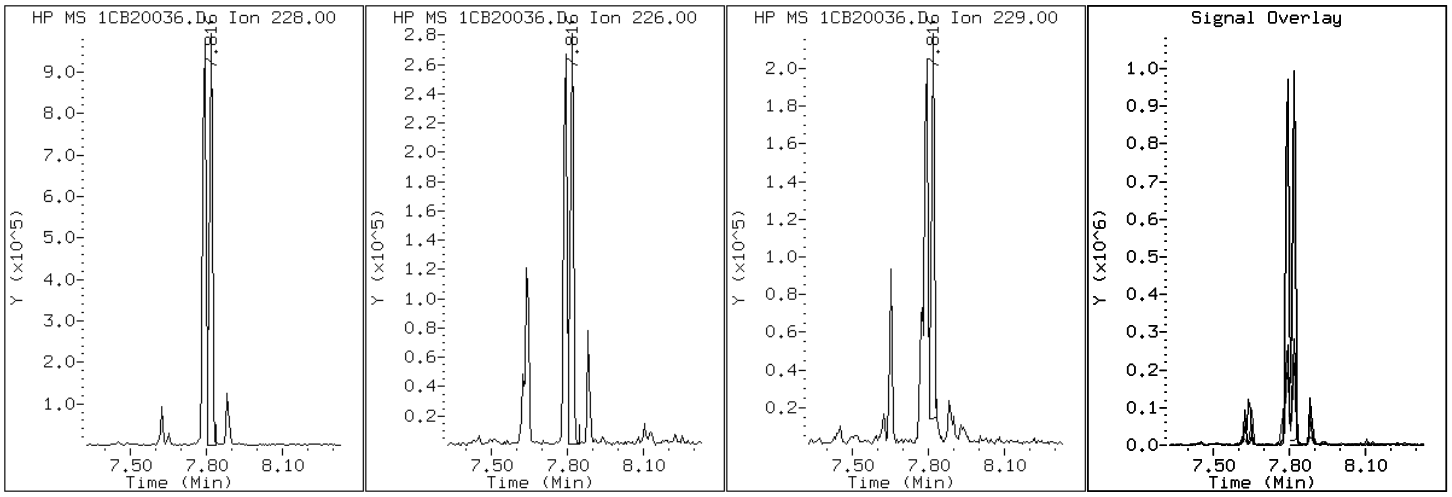
Client ID: CV0971AF-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a

Operator: SCC

19 Chrysene



Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

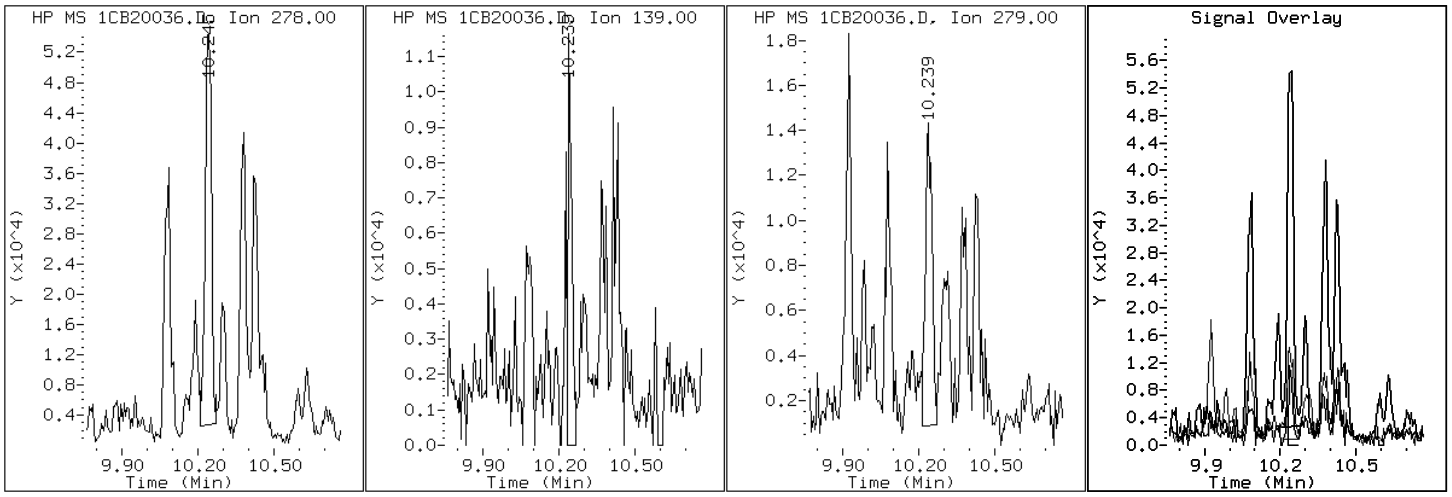
Client ID: CV0971AF-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a

Operator: SCC

25 Dibenzo(a,h)anthracene



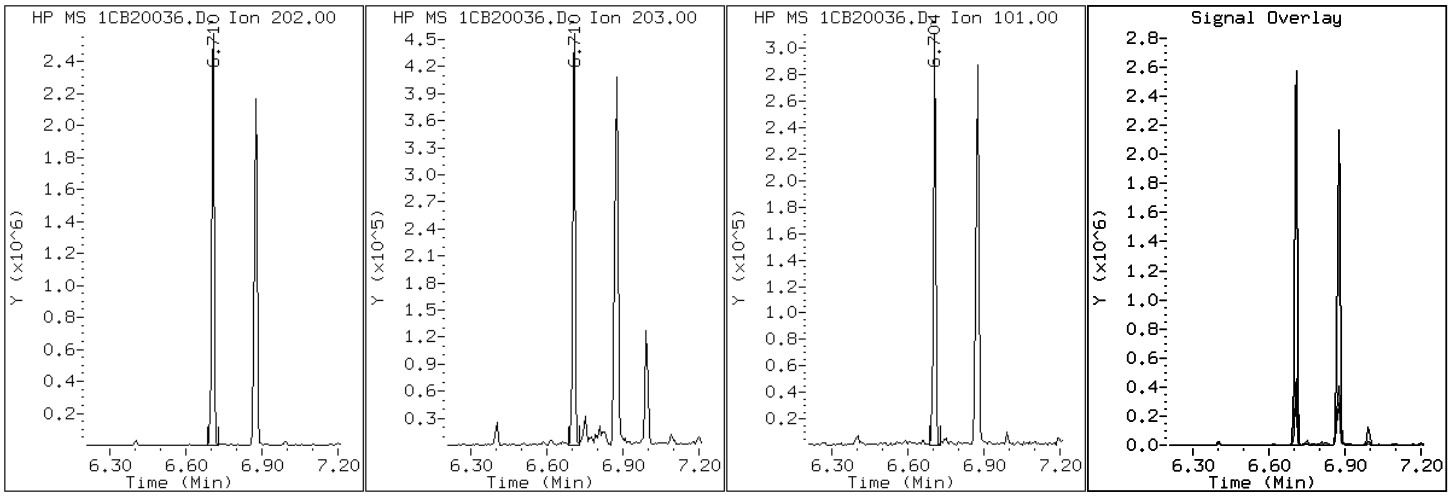
Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

Client ID: CV0971AF-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a Operator: SCC

15 Fluoranthene



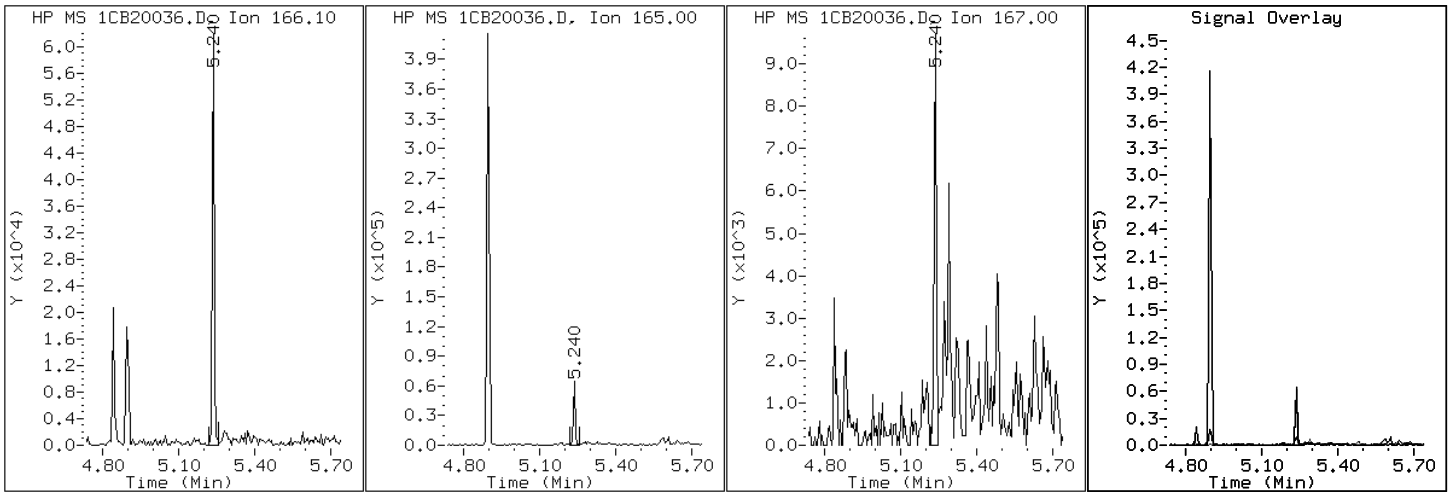
Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

Client ID: CV0971AF-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a Operator: SCC

9 Fluorene



Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

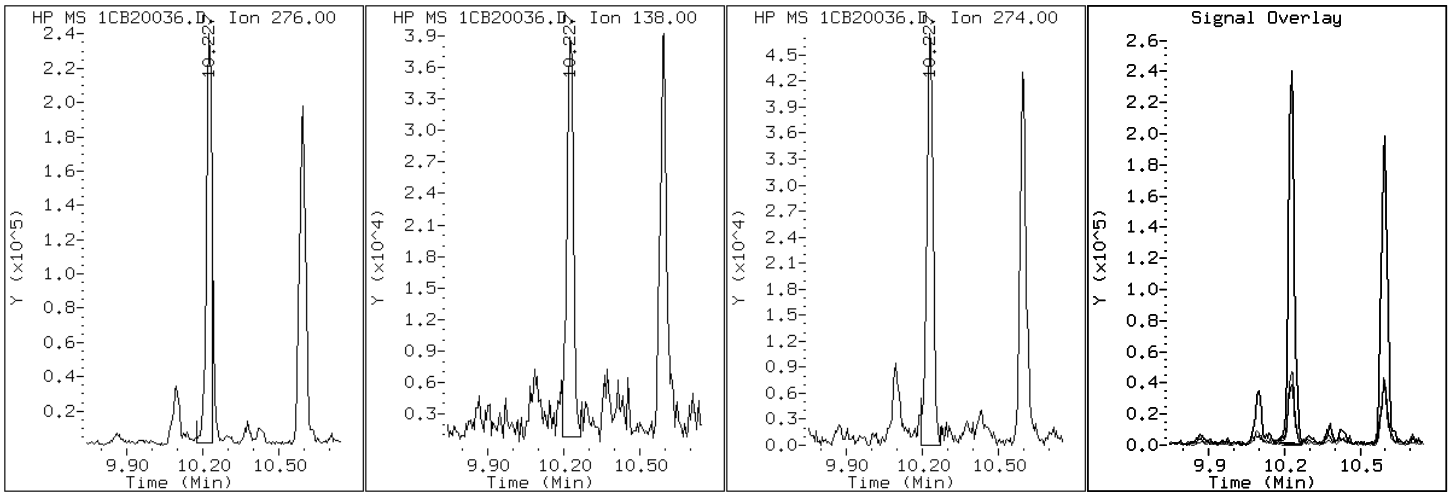
Client ID: CV0971AF-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a

Operator: SCC

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



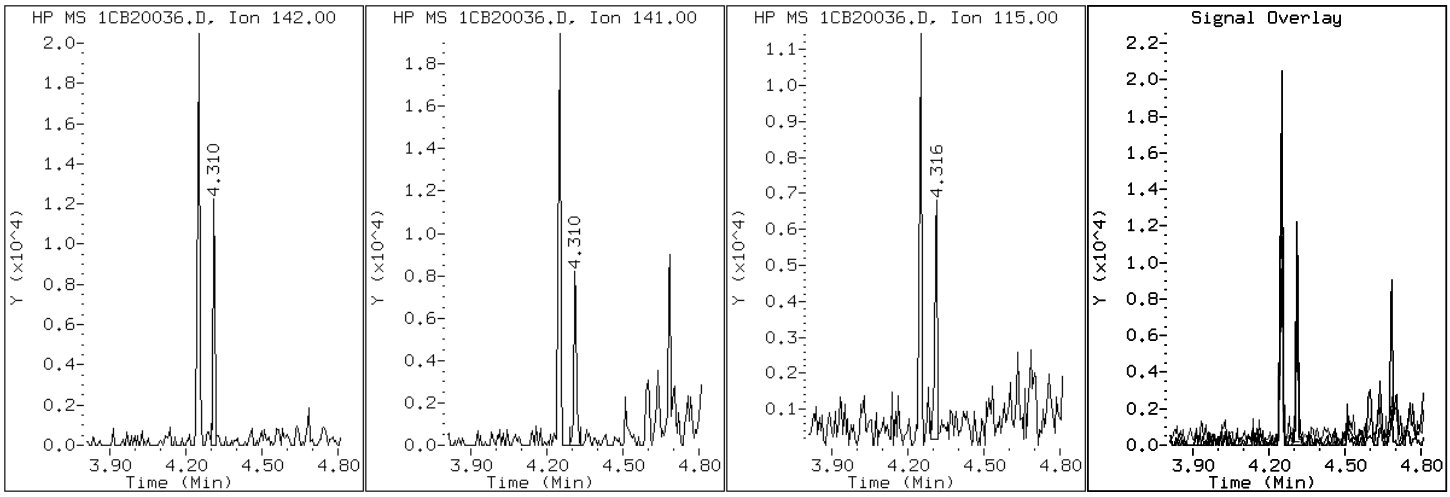
Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

Client ID: CV0971AF-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a Operator: SCC

4 1-Methylnaphthalene



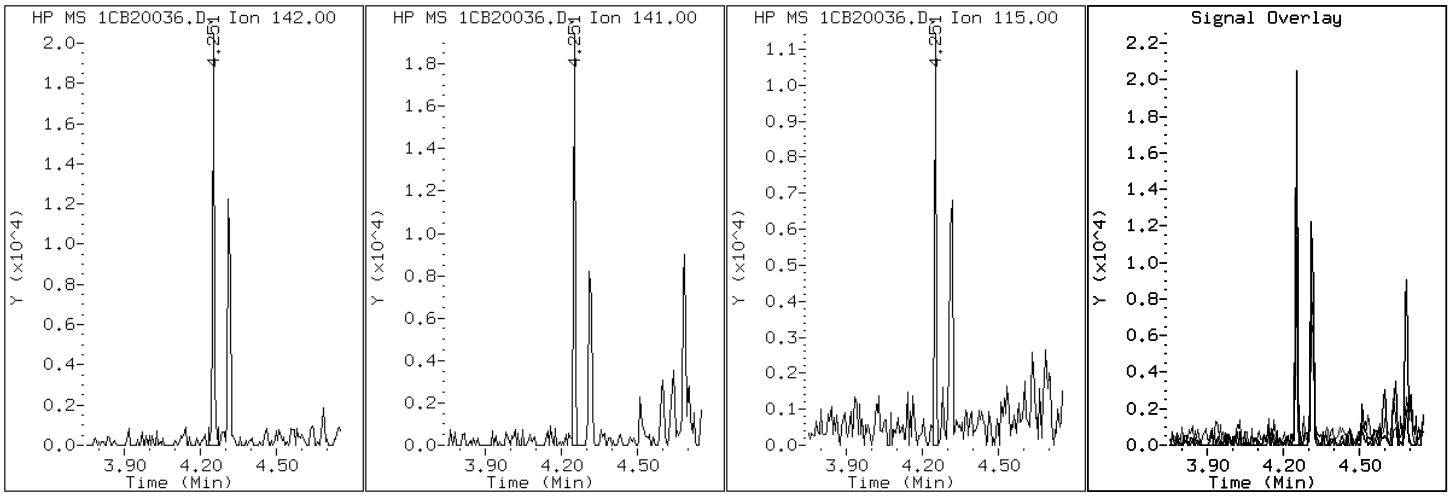
Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

Client ID: CV0971AF-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

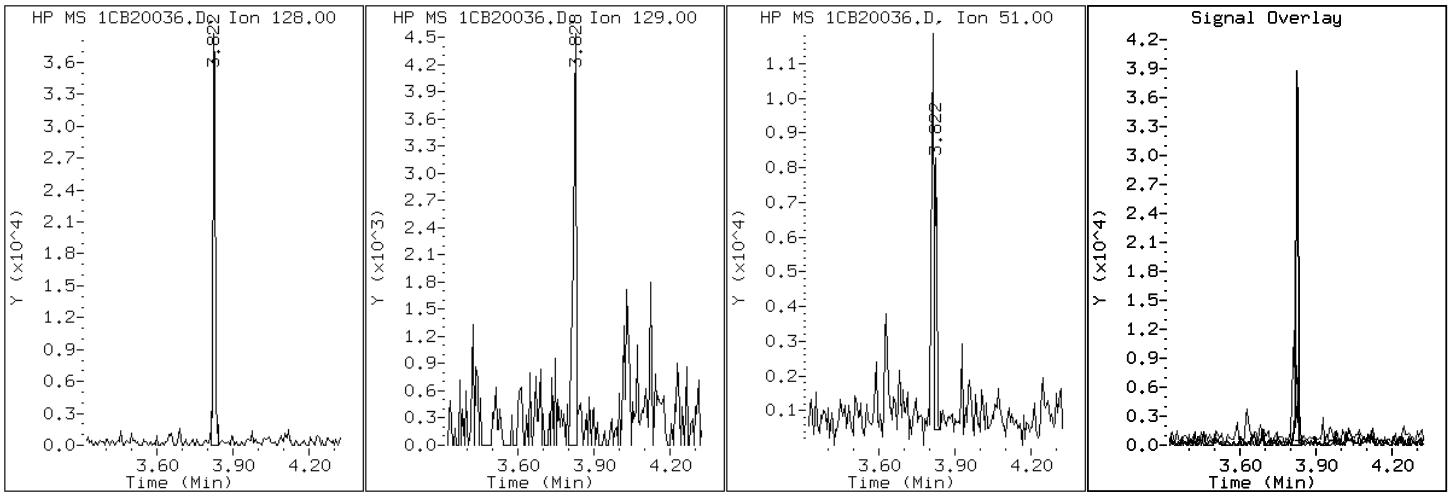
Client ID: CV0971AF-GS

Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a

Operator: SCC

2 Naphthalene



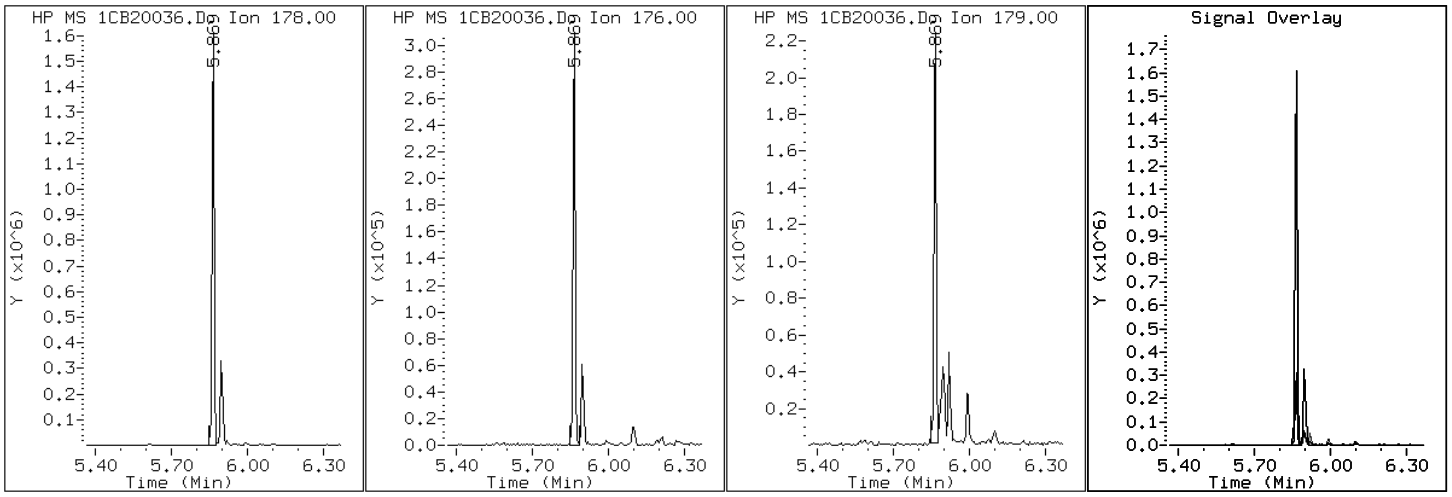
Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

Client ID: CV0971AF-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a Operator: SCC

11 Phenanthrene



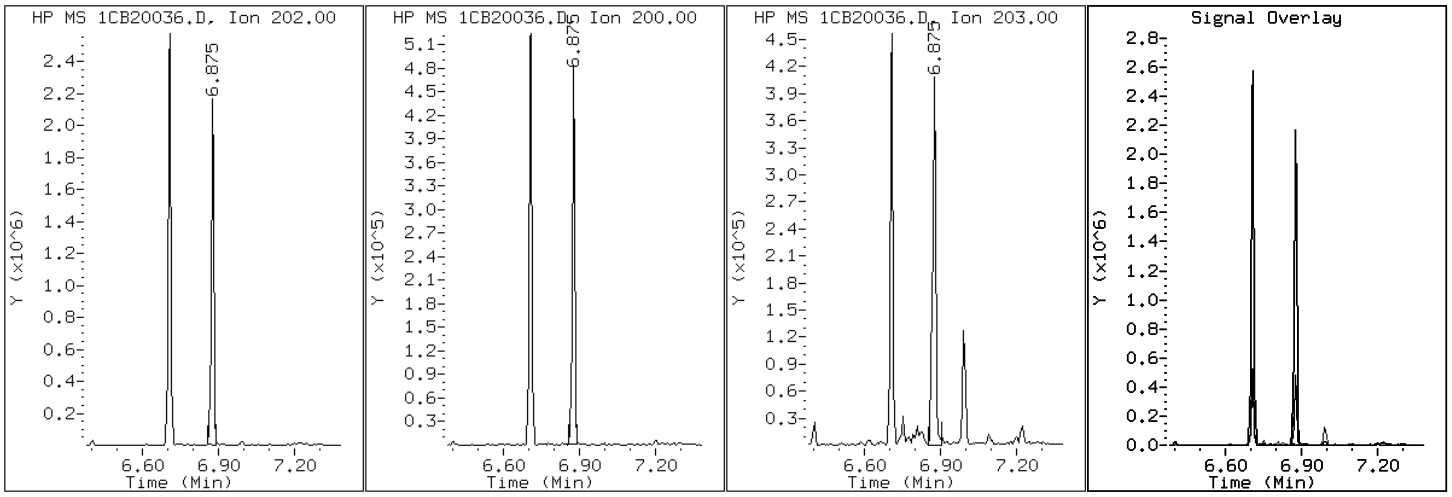
Data File: 1CB20036.D

Date: 21-FEB-2013 00:23

Client ID: CV0971AF-GS Instrument: BSMC5973.i

Sample Info: 680-87447-a-21-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20036.D
Inj. Date and Time: 21-FEB-2013 00:23
Instrument ID: BSMC5973.i
Client ID: CV0971AF-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

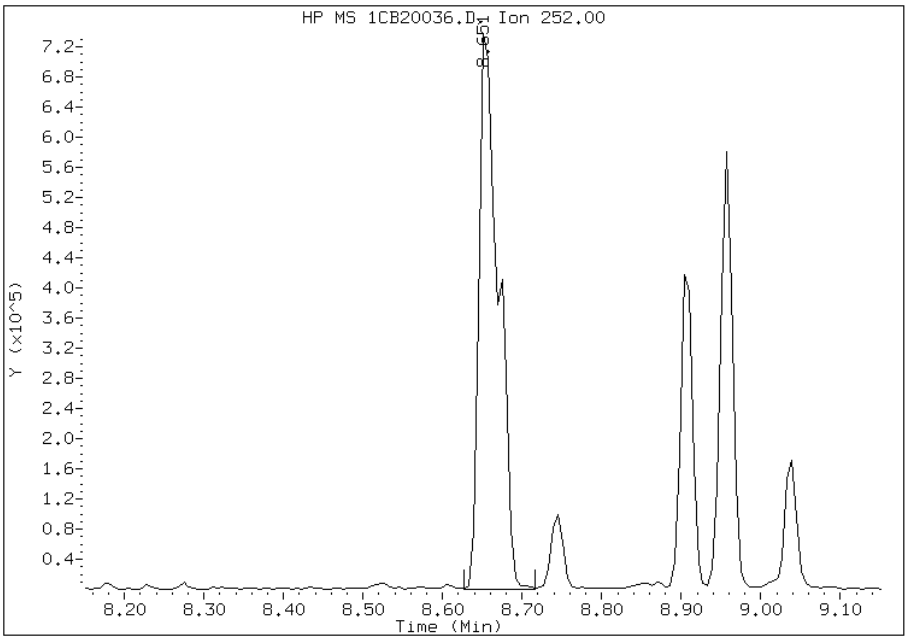
Processing Integration Results

RT: 8.65

Response: 1258868

Amount: 16

Conc: 1667



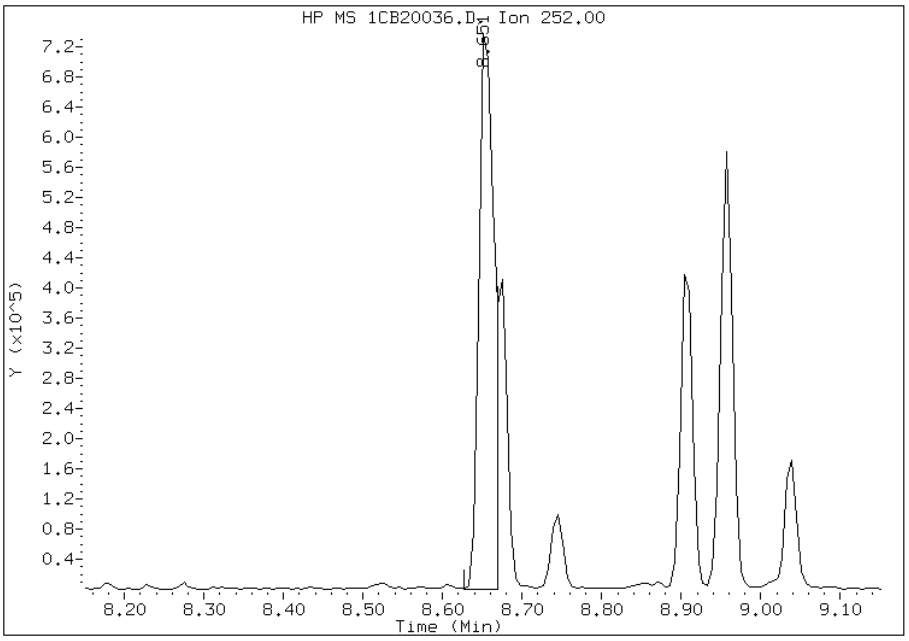
Manual Integration Results

RT: 8.65

Response: 978389

Amount: 12

Conc: 1296



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20036.D
Inj. Date and Time: 21-FEB-2013 00:23
Instrument ID: BSMC5973.i
Client ID: CV0971AF-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/21/2013

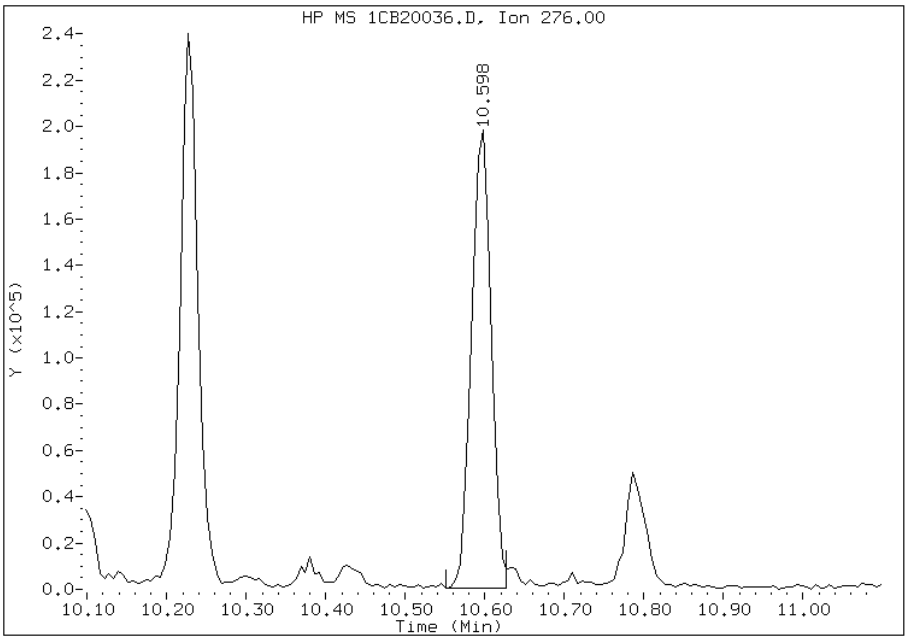
Processing Integration Results

RT: 10.60

Response: 338008

Amount: 5

Conc: 482



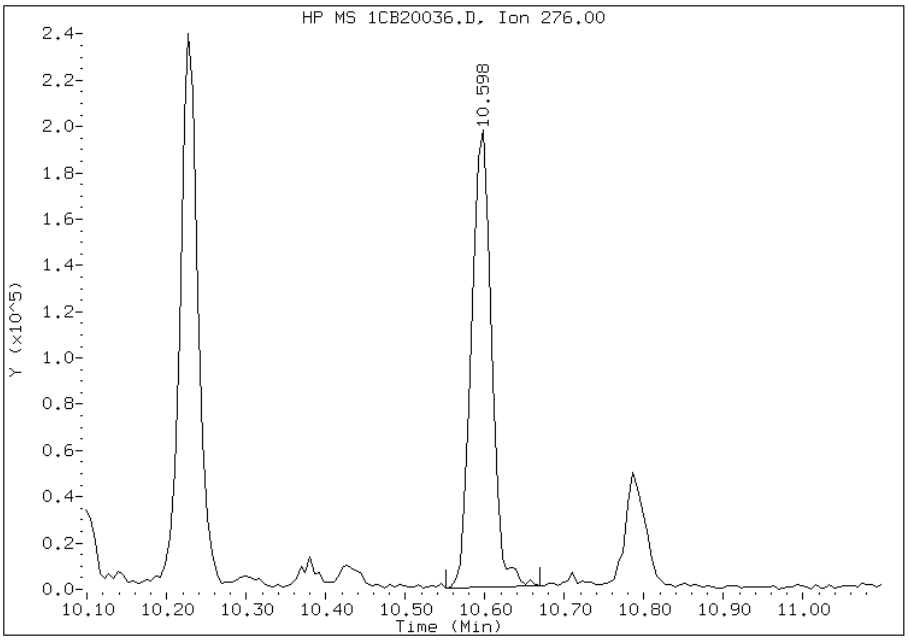
Manual Integration Results

RT: 10.60

Response: 344975

Amount: 5

Conc: 492



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 12:00
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20036.D
Inj. Date and Time: 21-FEB-2013 00:23
Instrument ID: BSMC5973.i
Client ID: CV0971AF-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

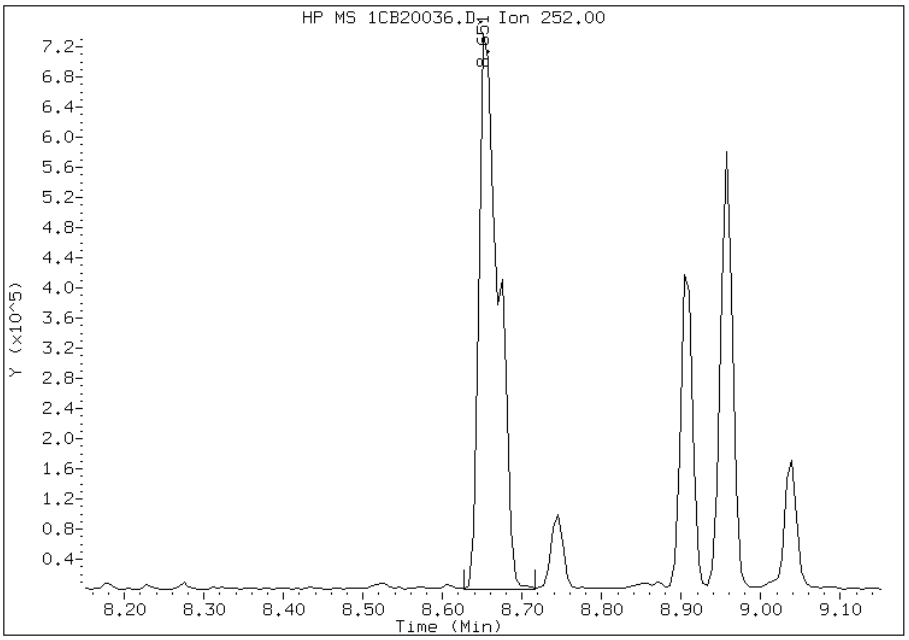
Processing Integration Results

RT: 8.65

Response: 1259103

Amount: 14

Conc: 1514



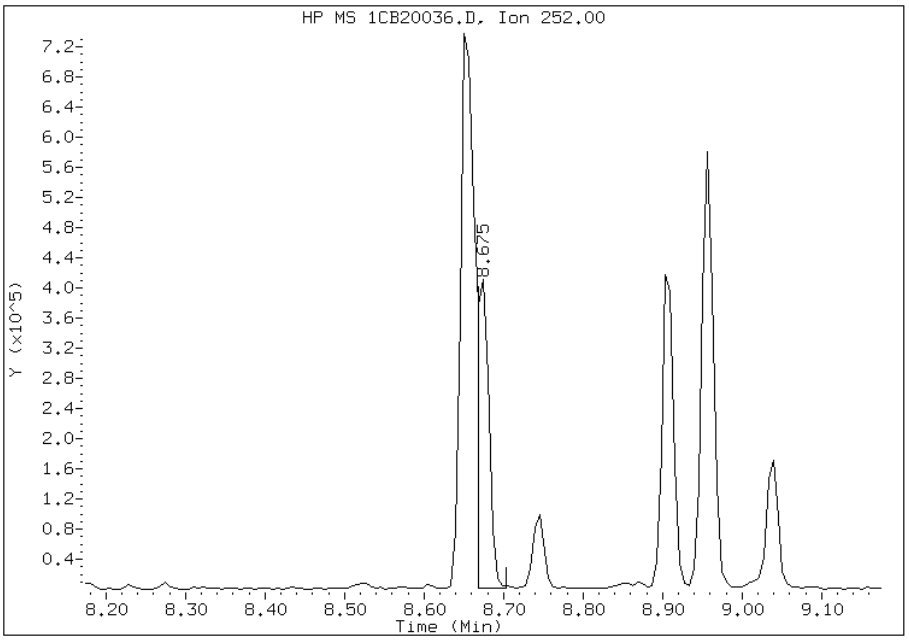
Manual Integration Results

RT: 8.67

Response: 409170

Amount: 5

Conc: 492



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20036.D
Inj. Date and Time: 21-FEB-2013 00:23
Instrument ID: BSMC5973.i
Client ID: CV0971AF-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

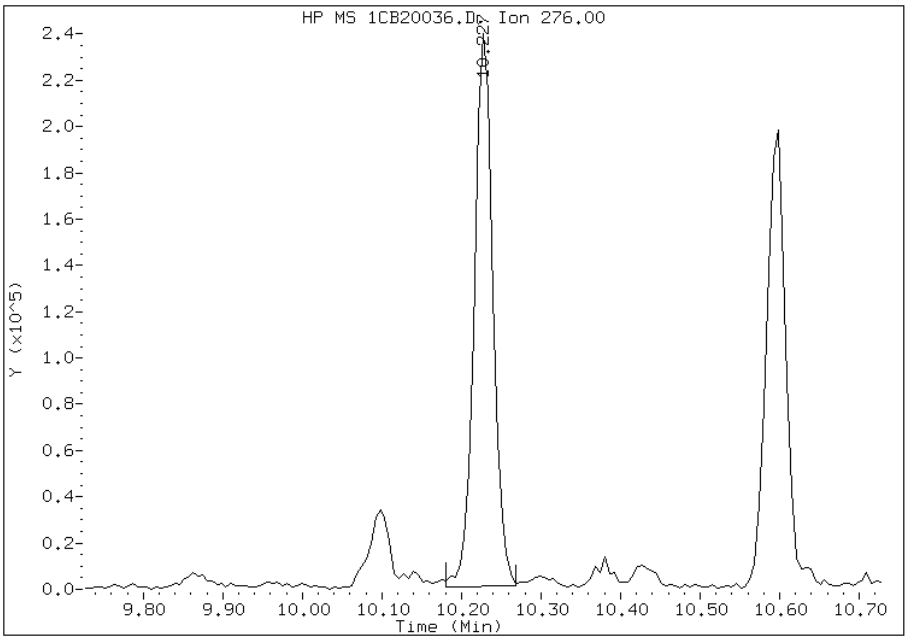
Processing Integration Results

RT: 10.23

Response: 386186

Amount: 5

Conc: 560



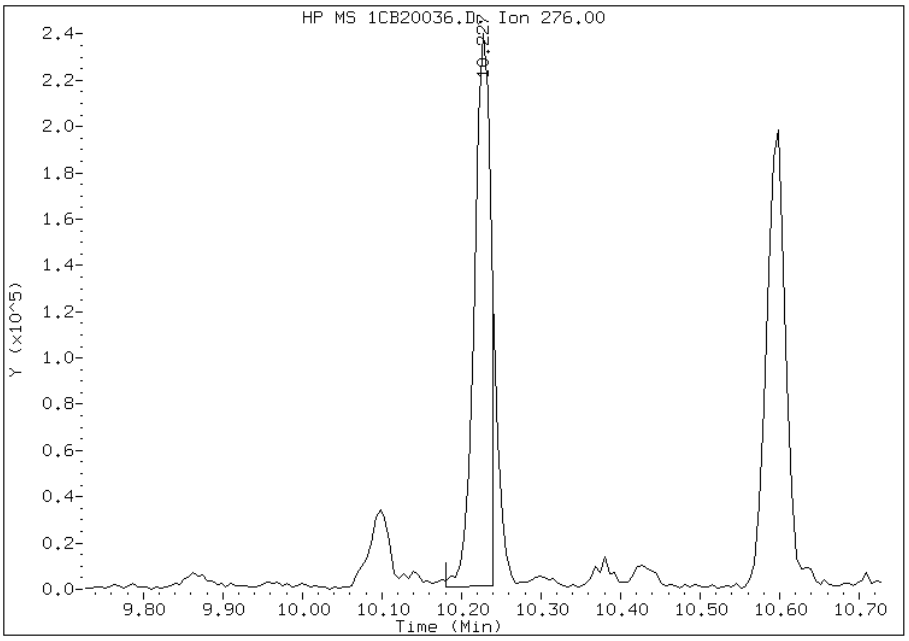
Manual Integration Results

RT: 10.23

Response: 346341

Amount: 5

Conc: 502



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 12:00
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-87447-1 Analy Batch No.: 133227

SDG No.: 68087447-1

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133227/3	1CA07013.D
Level 2	IC 660-133227/4	1CA07014.D
Level 3	IC 660-133227/5	1CA07015.D
Level 4	IC 660-133227/6	1CA07016.D
Level 5	ICIS 660-133227/7	1CA07017.D
Level 6	IC 660-133227/8	1CA07018.D
Level 7	IC 660-133227/9	1CA07019.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.0948 1.0545	0.9495 1.0923	1.1033	1.0932	1.0321	Ave		1.0599			0.0000	5.2		15.0			
2-Methylnaphthalene	0.7336 0.6800	0.6777 0.6981	0.6603	0.7017	0.6730	Ave		0.6892			0.0000	3.5		15.0			
1-Methylnaphthalene	0.5817 0.6643	0.5360 0.6684	0.6316	0.6552	0.6507	Ave		0.6268			0.0000	7.9		15.0			
Acenaphthylene	1.7181 1.6465	1.4412 1.6572	1.4779	1.5857	1.6130	Ave		1.5914			0.0000	6.3		15.0			
Acenaphthene	1.1390 0.9603	1.0282 0.9633	0.9458	1.0094	0.9406	Ave		0.9981			0.0000	7.0		15.0			
Fluorene	1.3483 1.3015	1.2058 1.2912	1.2211	1.3274	1.2732	Ave		1.2812			0.0000	4.1		15.0			
Phenanthrene	1.5909 1.1271	1.1807 1.1120	1.0815	1.1674	1.0983	Ave		1.1940			0.0000	15.0		15.0			
Anthracene	1.0132 1.1091	0.9972 1.1231	1.0674	1.1234	1.0967	Ave		1.0757			0.0000	4.8		15.0			
Carbazole	0.8906 0.9895	0.8628 0.9866	0.8811	0.9644	0.9658	Ave		0.9344			0.0000	5.8		15.0			
Fluoranthene	0.9799 1.2313	1.0735 1.2497	1.1621	1.2234	1.2469	Ave		1.1667			0.0000	8.9		15.0			
Pyrene	0.8059 1.1858	1.0113 1.1112	1.0616	1.1543	1.1241	Ave		1.0649			0.0000	12.0		15.0			
Benzo[a]anthracene	1.4670 1.0800	0.9986 1.0530	1.0400	1.0600	1.0228	Ave		1.1031			0.0000	14.7		15.0			
Chrysene	1.2057 1.1045	1.2101 1.0821	1.1125	1.1626	1.0982	Ave		1.1394			0.0000	4.7		15.0			
Benzo[b]fluoranthene	0.8713 1.0190	0.8691 1.1293	0.9456	1.0325	0.9979	Ave		0.9807			0.0000	9.5		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87447-1 Analy Batch No.: 133227

SDG No.: 68087447-1

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9252 1.2002	0.9572 1.1097	1.0697	1.1497	1.1509	Ave		1.0804			0.0000	9.6		15.0			
Benzo[a]pyrene	0.7248 1.0316	0.8455 1.0436	0.9117	0.9956	0.9794	Ave		0.9332			0.0000	12.3		15.0			
Indeno[1,2,3-cd]pyrene	0.6998 0.9422	0.4820 0.8813	0.8137	0.8316	0.9002	LinF		0.8963			0.0000				0.9980		0.9900
Dibenz(a,h)anthracene	0.7712 0.9005	0.7805 0.9132	0.8152	0.8774	0.8585	Ave		0.8452			0.0000	6.7		15.0			
Benzo[g,h,i]perylene	0.8112 0.9967	0.7908 0.9698	0.9172	0.9667	0.9207	Ave		0.9104			0.0000	8.8		15.0			
o-Terphenyl	0.5355 0.5984	0.5589 0.5994	0.5931	0.6168	0.6005	Ave		0.5861			0.0000	4.8		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87447-1 Analy Batch No.: 133227

SDG No.: 68087447-1

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133227/3	1CA07013.D
Level 2	IC 660-133227/4	1CA07014.D
Level 3	IC 660-133227/5	1CA07015.D
Level 4	IC 660-133227/6	1CA07016.D
Level 5	ICIS 660-133227/7	1CA07017.D
Level 6	IC 660-133227/8	1CA07018.D
Level 7	IC 660-133227/9	1CA07019.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	11168 1744899	49180 2683662	279616	562439	1132608	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7484 1125305	35101 1715115	167348	360991	738557	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	5934 1099203	27760 1642265	160060	337071	714057	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	13060 2078096	55638 3143102	277566	597168	1333542	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8658 1212087	39694 1826987	177622	380155	777625	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10249 1642686	46551 2448772	229328	499898	1052584	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	22944 2725408	87138 3980821	382657	852208	1725035	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	14612 2681981	73594 4020655	377684	820090	1722588	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	12845 2392859	63677 3531798	311754	704012	1516911	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	14132 2977438	79223 4473693	411201	893123	1958378	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13699 3254878	87607 4789001	444176	1032505	2128584	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	24935 2964525	86510 4538204	435113	948119	1936797	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	20495 3031738	104834 4663655	465452	1039885	2079538	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	15170 2773683	75135 4834833	409334	924867	1891292	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	16108 3267104	82752 4750961	463057	1029821	2181246	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-87447-1 Analy Batch No.: 133227

SDG No.: 68087447-1

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	12619 2808161	73092 4467973	394642	891772	1856241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	LinF	12184 2564602	41666 3772962	352250	744949	1706161	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13428 2451088	67472 3909634	352888	785898	1627151	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14123 2713188	68360 4151782	397056	865965	1745002	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7723 1447125	41244 2145891	209857	450297	943151	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07013.D
Lab Smp Id: IC-1489894
Inj Date : 07-JAN-2013 15:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2040281	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1520300	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2884412	40.0000	
$ 14 o-Terphenyl	230	6.162	6.162	(1.042)	7723	0.20000	0.1827
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3399562	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3482211	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	11168	0.20000	0.2065(Q)
3 2-Methylnaphthalene	142	4.304	4.304	(1.113)	7484	0.20000	0.2128
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	5934	0.20000	0.1855
5 Acenaphthylene	152	4.868	4.868	(0.982)	13060	0.20000	0.2159
7 Acenaphthene	154	4.974	4.974	(1.004)	8658	0.20000	0.2282
9 Fluorene	166	5.298	5.298	(1.069)	10249	0.20000	0.2104
11 Phenanthrene	178	5.927	5.927	(1.002)	22944	0.20000	0.2664
12 Anthracene	178	5.962	5.962	(1.008)	14612	0.20000	0.1883
13 Carbazole	167	6.074	6.074	(1.027)	12845	0.20000	0.1906
15 Fluoranthene	202	6.774	6.774	(1.145)	14132	0.20000	0.1679
16 Pyrene	202	6.945	6.945	(0.883)	13699	0.20000	0.1513
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	24935	0.20000	0.2659
19 Chrysene	228	7.886	7.886	(1.002)	20495	0.20000	0.2116
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	15170	0.20000	0.1776
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	16108	0.20000	0.1712(M)
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	12619	0.20000	0.1553
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	12184	0.20000	0.1764(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	13428	0.20000	0.1824(M)
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	14123	0.20000	0.1781(M)

QC Flag Legend

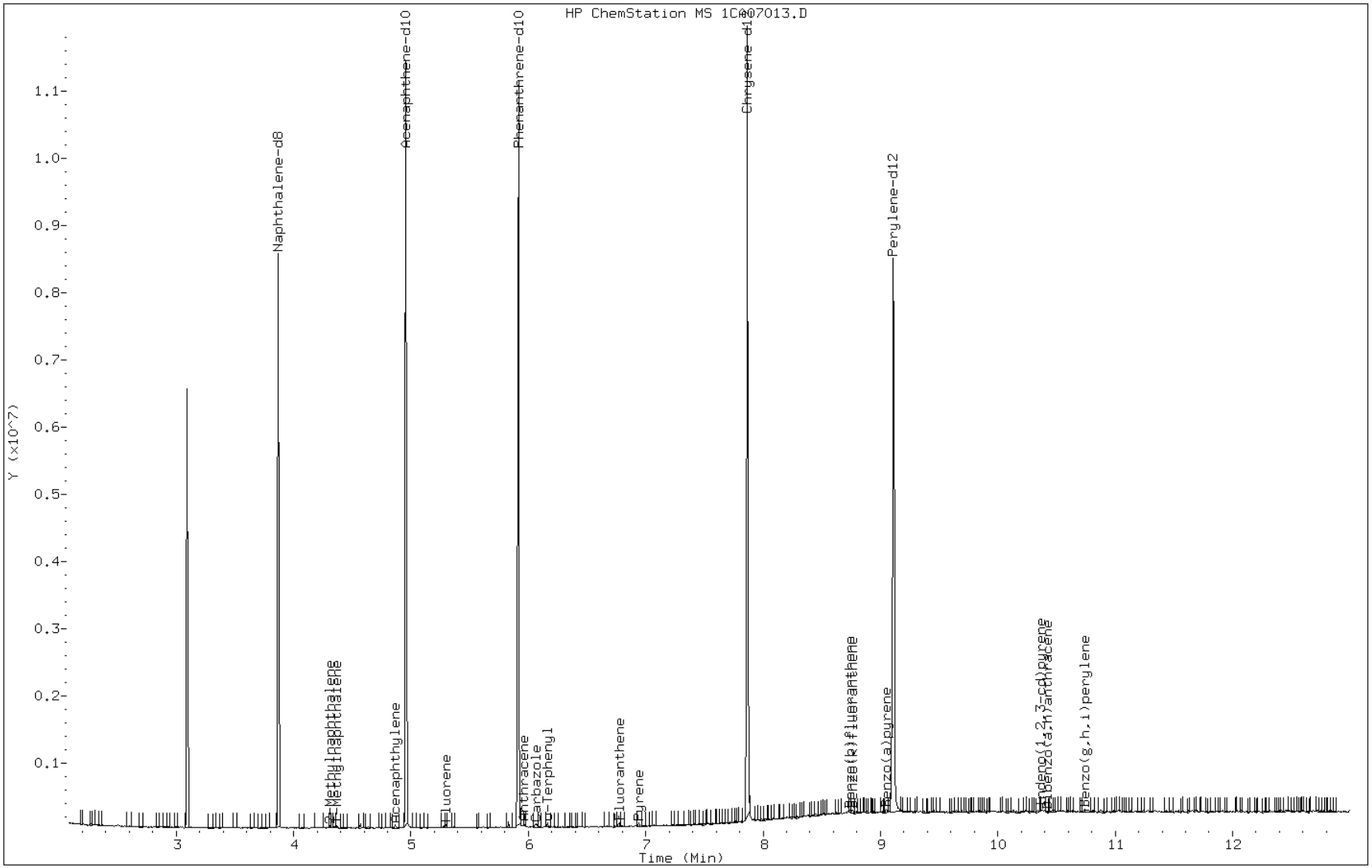
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07013.D

Date: 07-JAN-2013 15:23

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/08/2013

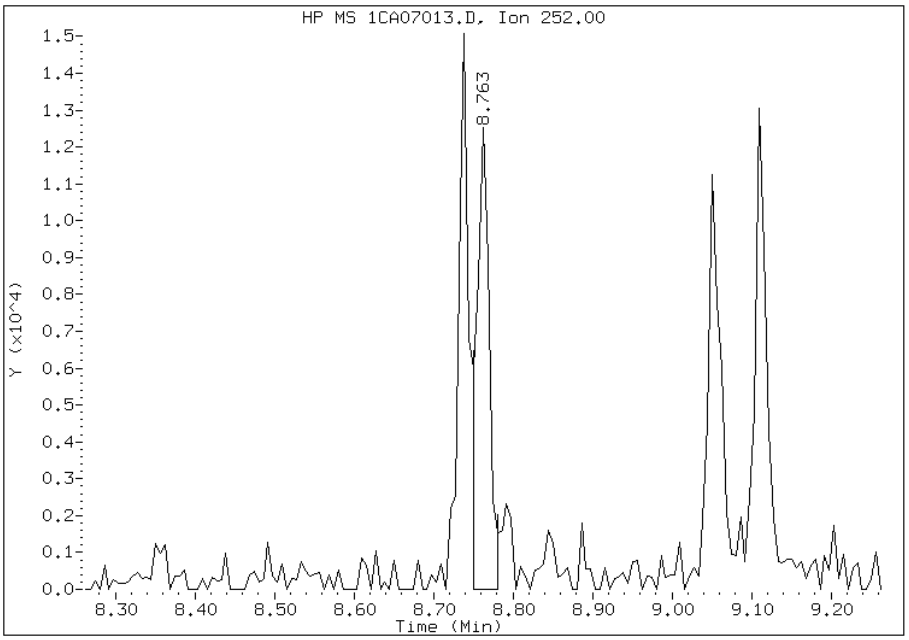
Processing Integration Results

RT: 8.76

Response: 14049

Amount: 0

Conc: 0



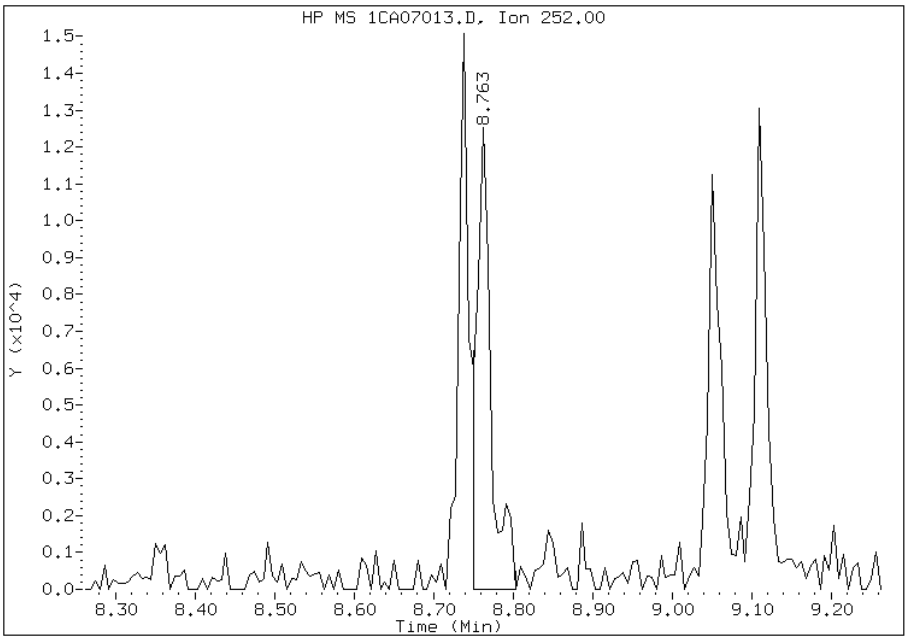
Manual Integration Results

RT: 8.76

Response: 16108

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

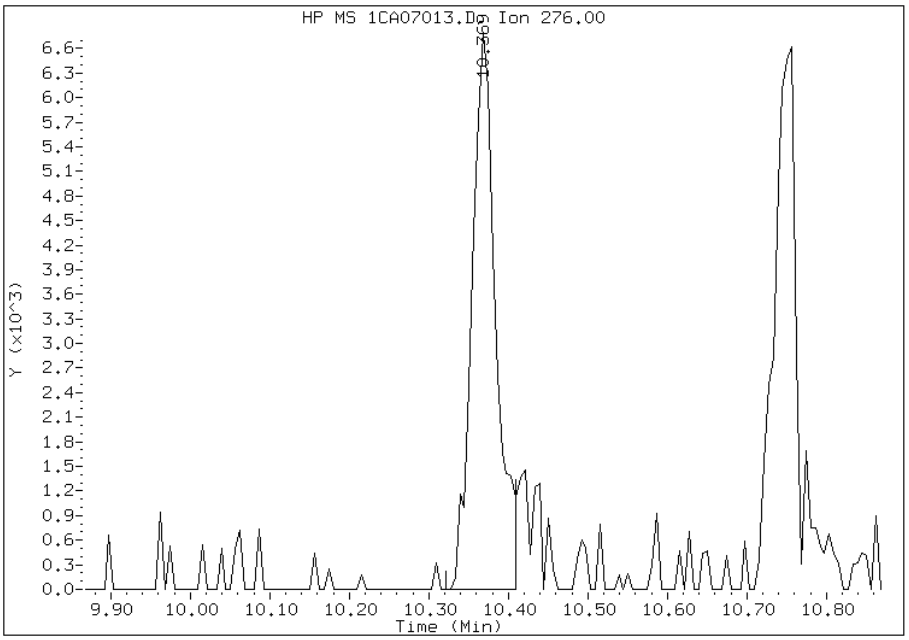
Processing Integration Results

RT: 10.37

Response: 14154

Amount: 0

Conc: 0



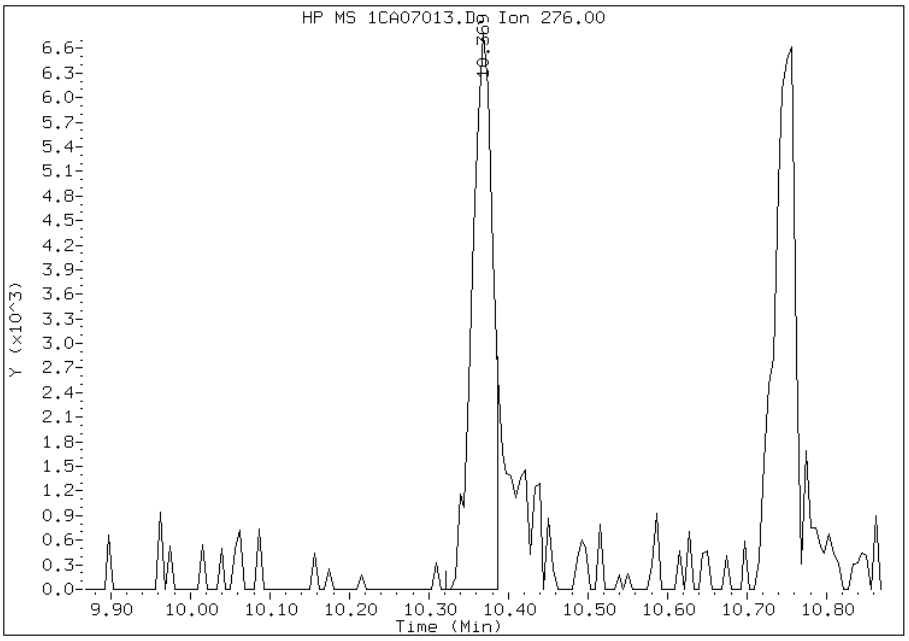
Manual Integration Results

RT: 10.37

Response: 12184

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

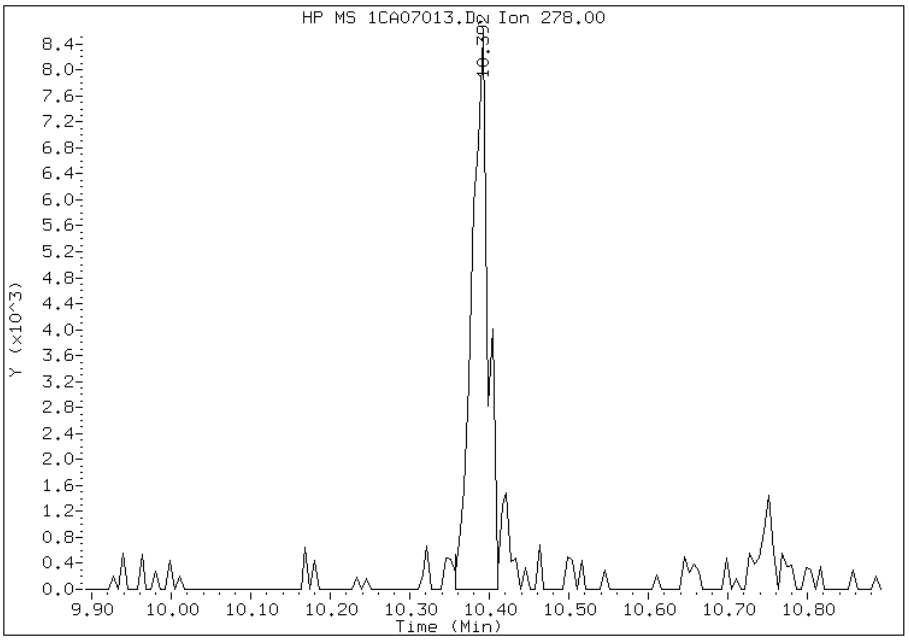
Processing Integration Results

RT: 10.39

Response: 12138

Amount: 0

Conc: 0



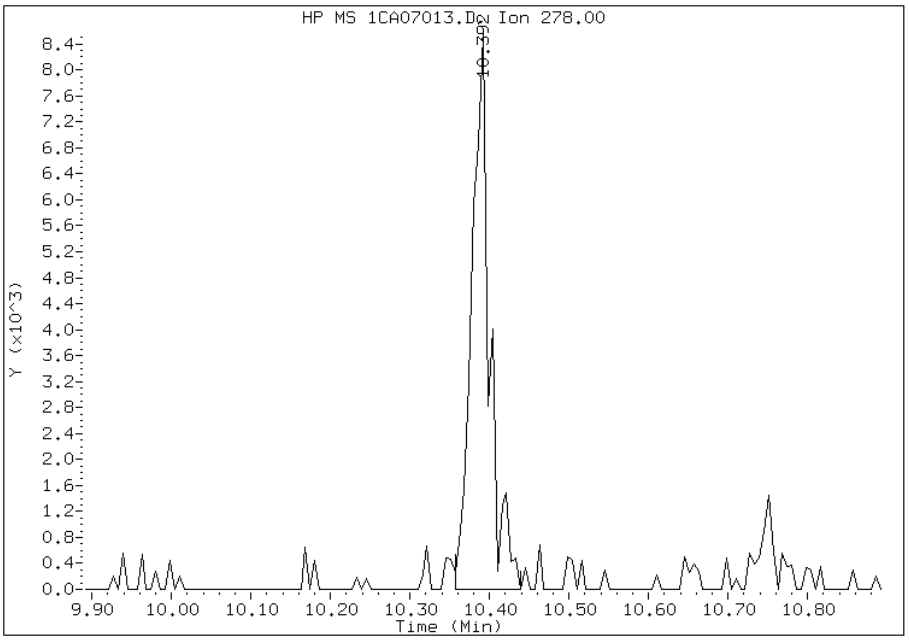
Manual Integration Results

RT: 10.39

Response: 13428

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

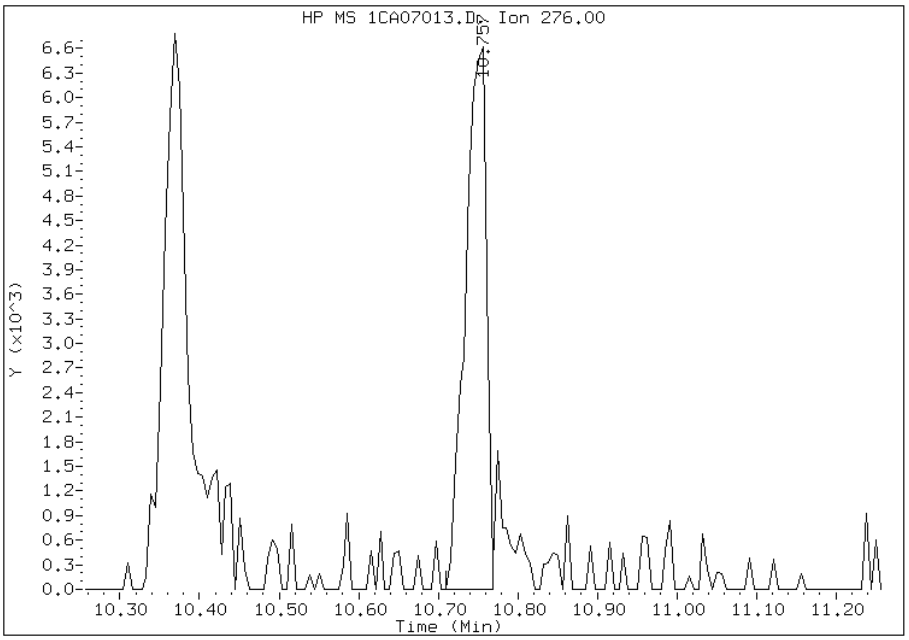
Processing Integration Results

RT: 10.76

Response: 12183

Amount: 0

Conc: 0



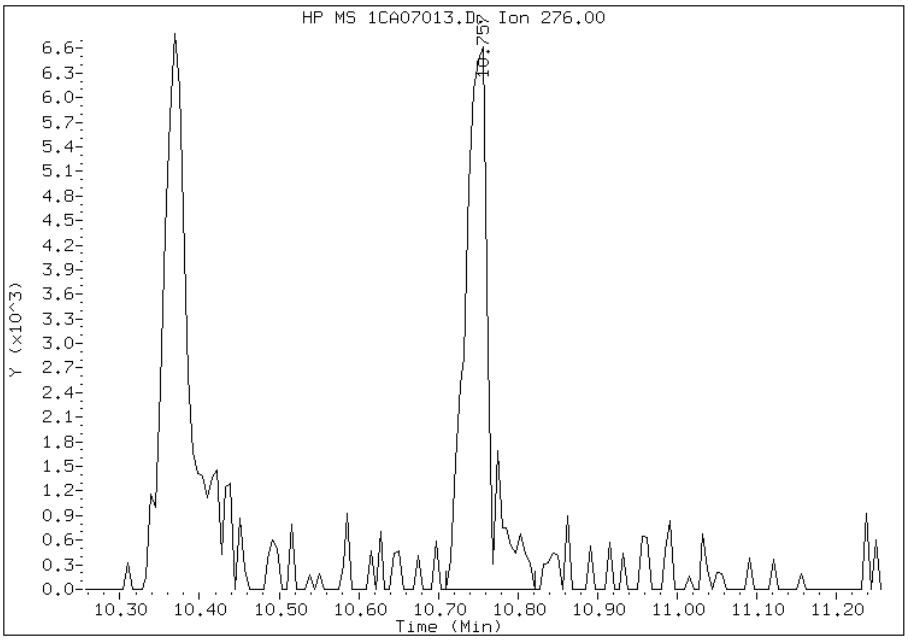
Manual Integration Results

RT: 10.76

Response: 14123

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07014.D
Lab Smp Id: IC-1489895
Inj Date : 07-JAN-2013 15:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:23 Cal File: 1CA07013.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2071724	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1544247	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2952062	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	41244	1.00000	0.9535
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3465163	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3457962	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	49180	1.00000	0.8958(Q)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	35101	1.00000	0.9833
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	27760	1.00000	0.8550
5 Acenaphthylene	152	4.868	4.868	(0.982)	55638	1.00000	0.9056
7 Acenaphthene	154	4.974	4.974	(1.004)	39694	1.00000	1.0301
9 Fluorene	166	5.298	5.298	(1.069)	46551	1.00000	0.9411
11 Phenanthrene	178	5.933	5.933	(1.003)	87138	1.00000	0.9888
12 Anthracene	178	5.962	5.962	(1.008)	73594	1.00000	0.9269
13 Carbazole	167	6.074	6.074	(1.027)	63677	1.00000	0.9233
15 Fluoranthene	202	6.774	6.774	(1.145)	79223	1.00000	0.9201
16 Pyrene	202	6.945	6.945	(0.883)	87607	1.00000	0.9496
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	86510	1.00000	0.9053
19 Chrysene	228	7.886	7.886	(1.002)	104834	1.00000	1.0620(M)
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	75135	1.00000	0.8862
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	82752	1.00000	0.8860
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	73092	1.00000	0.9060
24 Indeno(1,2,3-cd)pyrene	276	10.362	10.362	(1.138)	41666	1.00000	0.6078(M)
25 Dibenzo(a,h)anthracene	278	10.380	10.380	(1.139)	67472	1.00000	0.9234(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	68360	1.00000	0.8685(M)

QC Flag Legend

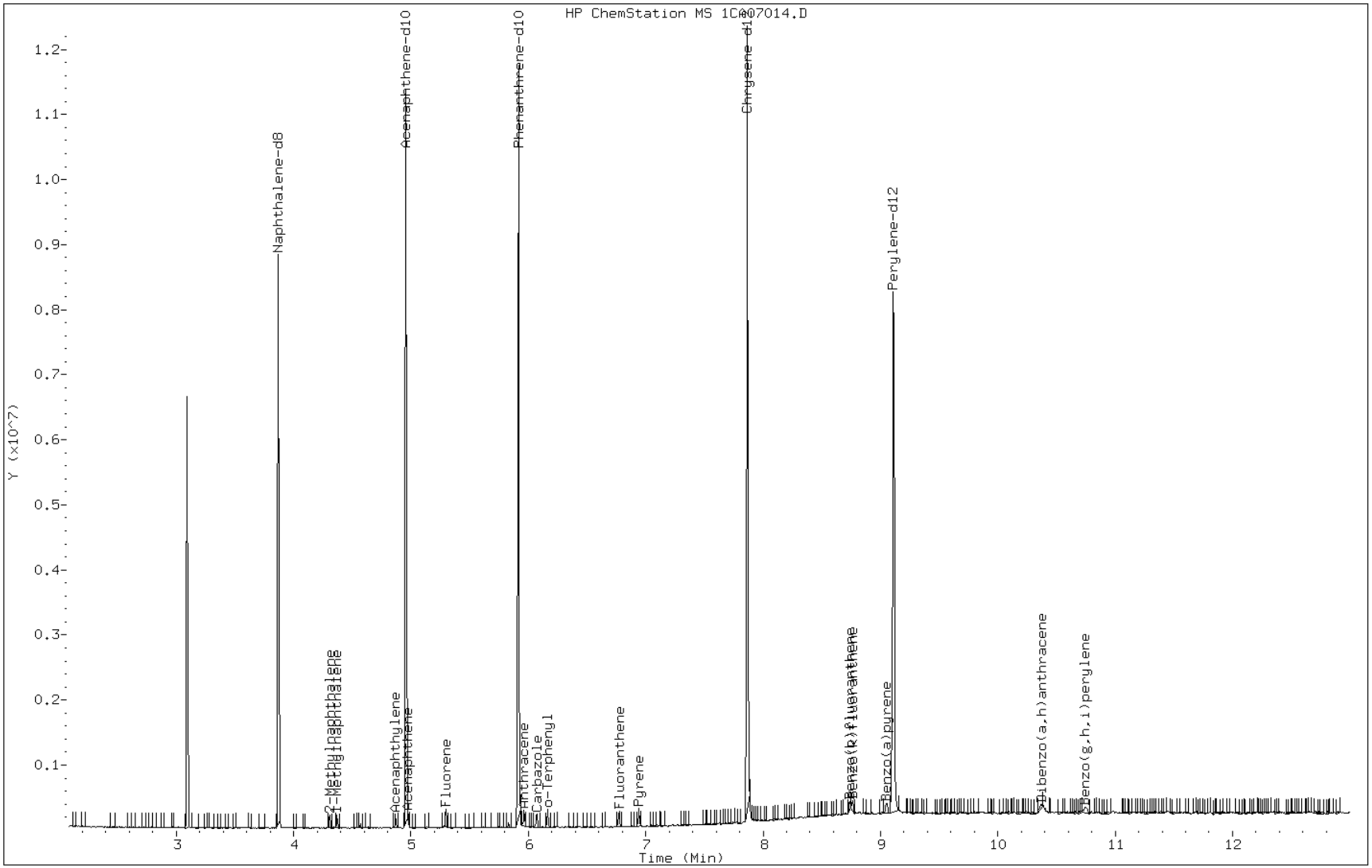
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07014.D

Date: 07-JAN-2013 15:41

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 01/08/2013

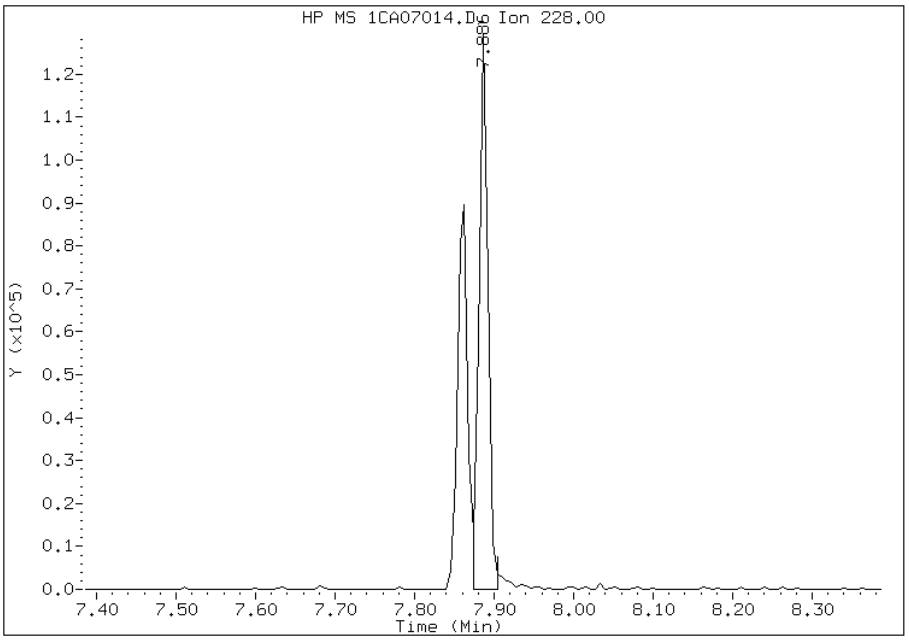
Processing Integration Results

RT: 7.89

Response: 101100

Amount: 1

Conc: 1



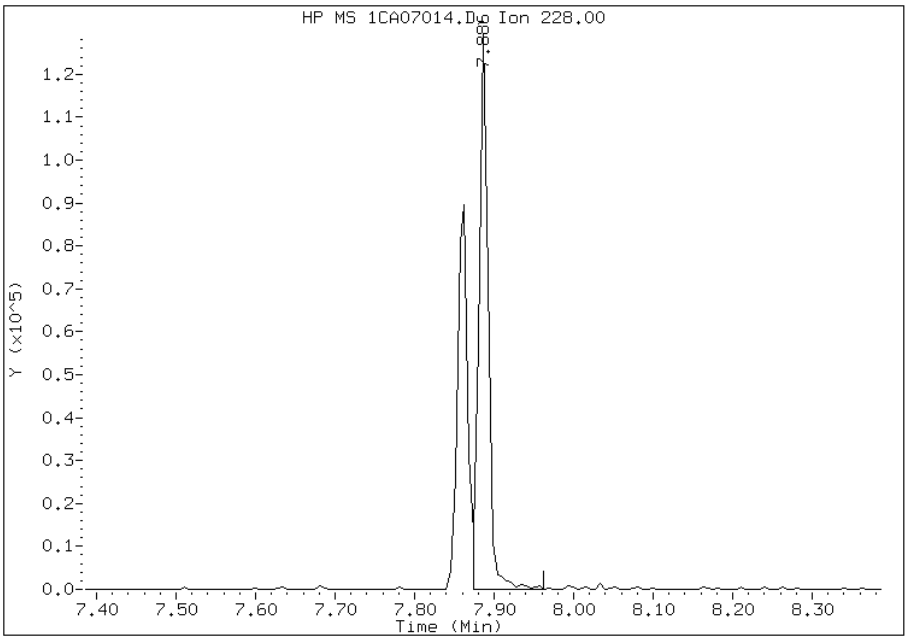
Manual Integration Results

RT: 7.89

Response: 104834

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

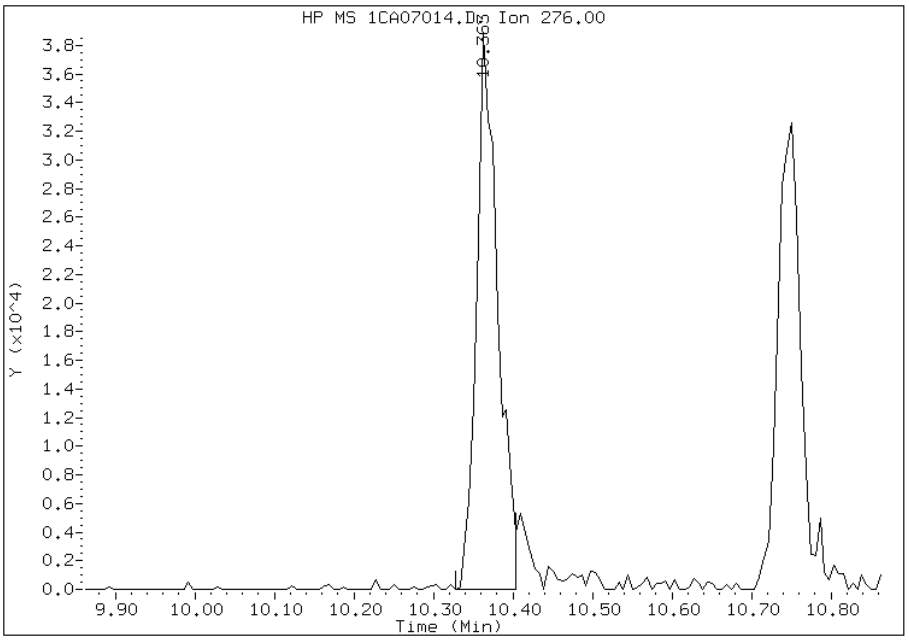
Processing Integration Results

RT: 10.36

Response: 72270

Amount: 1

Conc: 1



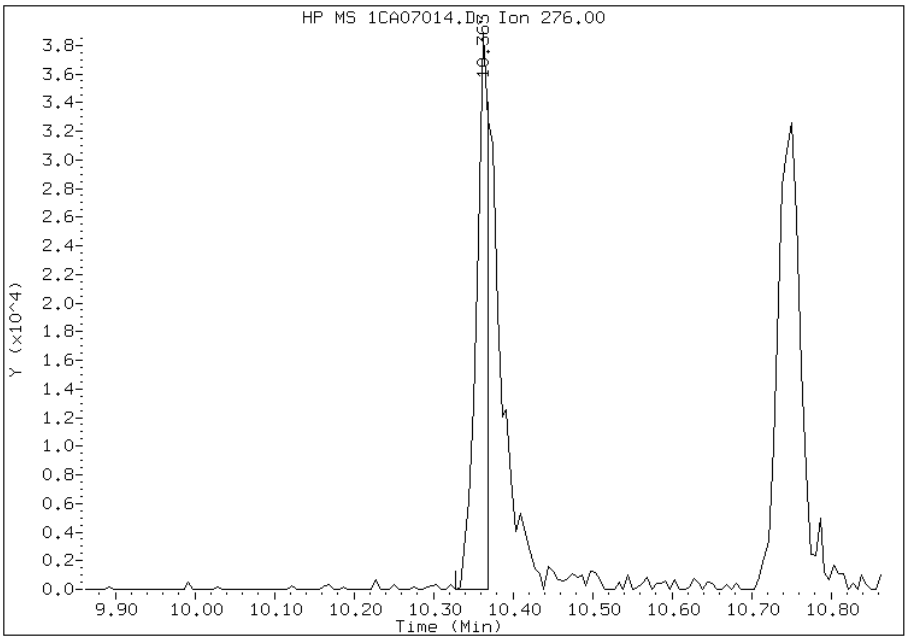
Manual Integration Results

RT: 10.36

Response: 41666

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

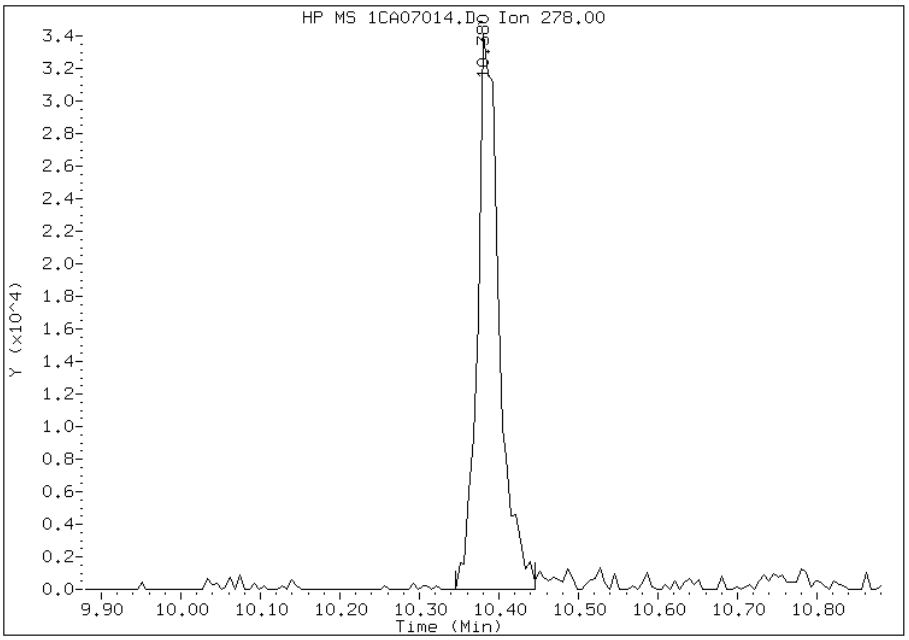
Processing Integration Results

RT: 10.38

Response: 65243

Amount: 1

Conc: 1



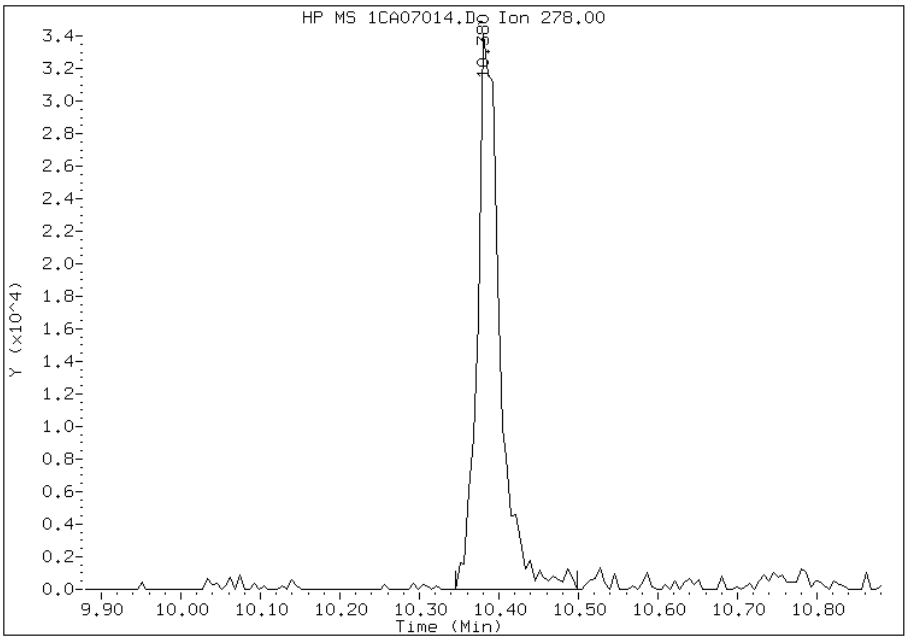
Manual Integration Results

RT: 10.38

Response: 67472

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

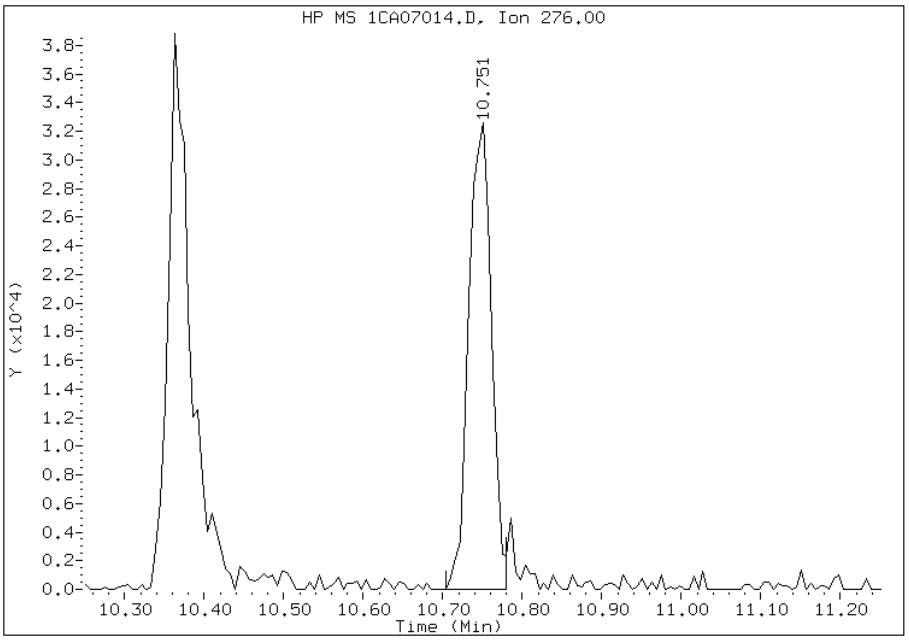
Processing Integration Results

RT: 10.75

Response: 64475

Amount: 1

Conc: 1



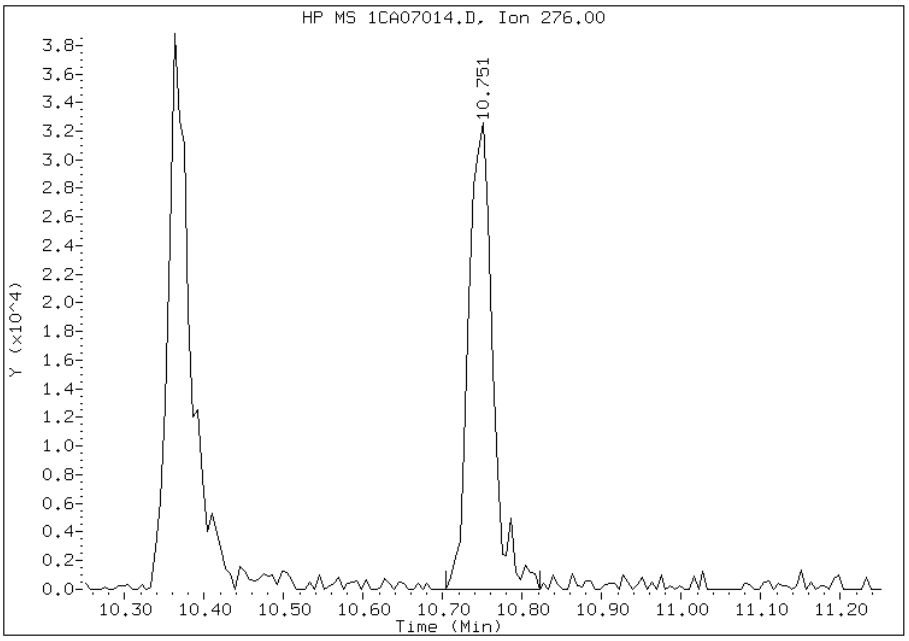
Manual Integration Results

RT: 10.75

Response: 68360

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07015.D
Lab Smp Id: IC-1489896
Inj Date : 07-JAN-2013 15:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:41 Cal File: 1CA07014.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2027501	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1502475	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2830661	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	209857	5.00000	5.0597
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3347096	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3463066	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	279616	5.00000	5.2044
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	167348	5.00000	4.7904
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	160060	5.00000	5.0377
5 Acenaphthylene	152	4.869	4.869	(0.982)	277566	5.00000	4.6435
7 Acenaphthene	154	4.974	4.974	(1.004)	177622	5.00000	4.7378
9 Fluorene	166	5.298	5.298	(1.069)	229328	5.00000	4.7653
11 Phenanthrene	178	5.927	5.927	(1.002)	382657	5.00000	4.5288
12 Anthracene	178	5.963	5.963	(1.008)	377684	5.00000	4.9613
13 Carbazole	167	6.074	6.074	(1.027)	311754	5.00000	4.7146
15 Fluoranthene	202	6.774	6.774	(1.145)	411201	5.00000	4.9805
16 Pyrene	202	6.945	6.945	(0.883)	444176	5.00000	4.9847
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	435113	5.00000	4.7140
19 Chrysene	228	7.886	7.886	(1.002)	465452	5.00000	4.8819
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	409334	5.00000	4.8211
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	463057	5.00000	4.9506
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	394642	5.00000	4.8847
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	352250	5.00000	5.1308(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	352888	5.00000	4.8224(M)
26 Benzo(g,h,i)perylene	276	10.751	10.751	(1.180)	397056	5.00000	5.0373(M)

QC Flag Legend

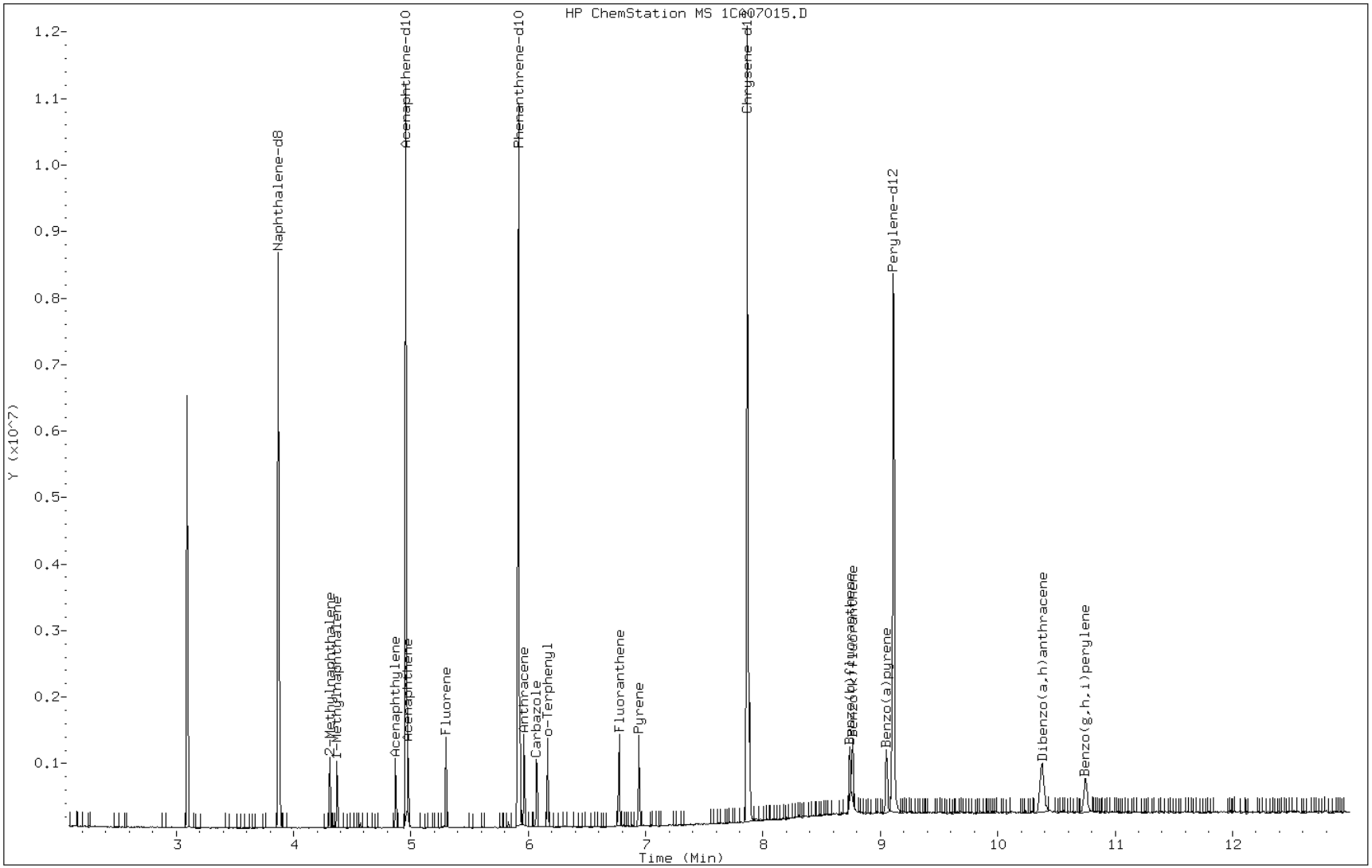
M - Compound response manually integrated.

Data File: 1CA07015.D

Date: 07-JAN-2013 15:59

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489896 Operator: SCC



Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

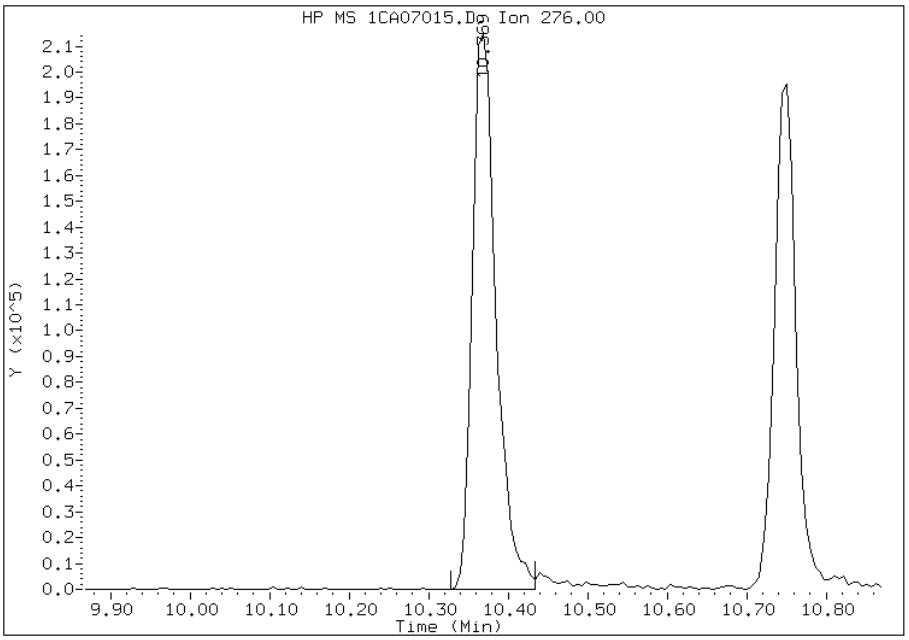
Processing Integration Results

RT: 10.37

Response: 445493

Amount: 6

Conc: 6



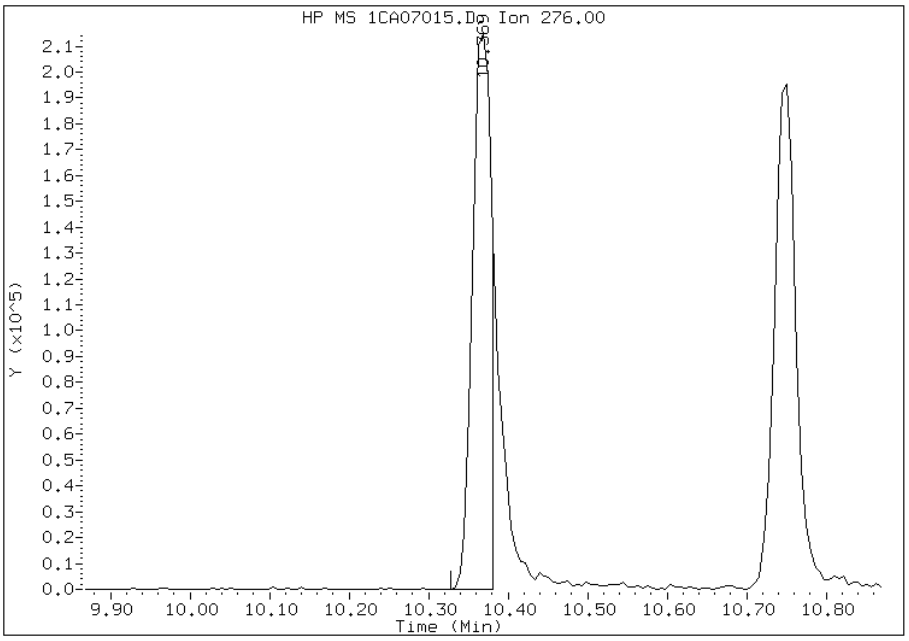
Manual Integration Results

RT: 10.37

Response: 352250

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

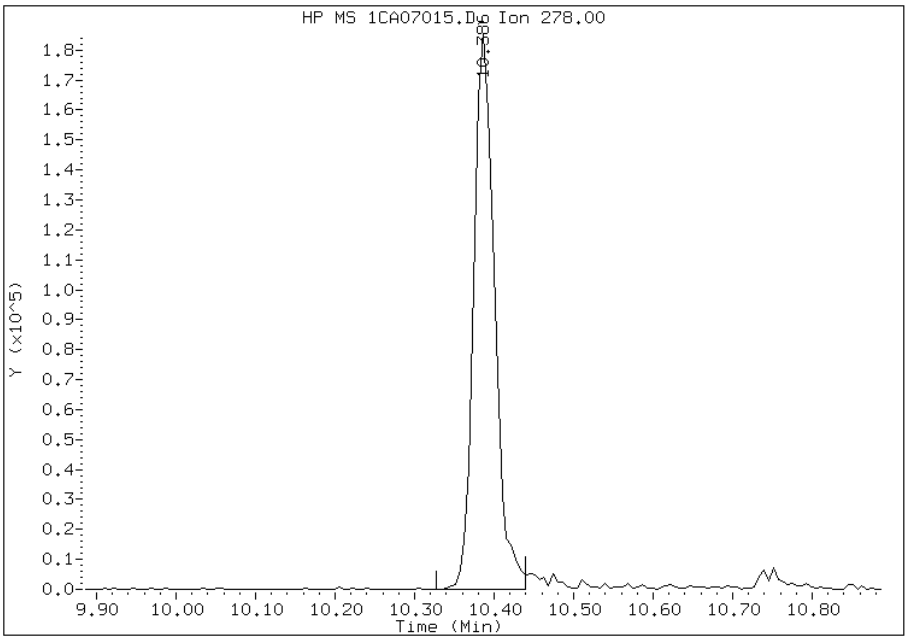
Processing Integration Results

RT: 10.39

Response: 335936

Amount: 5

Conc: 5



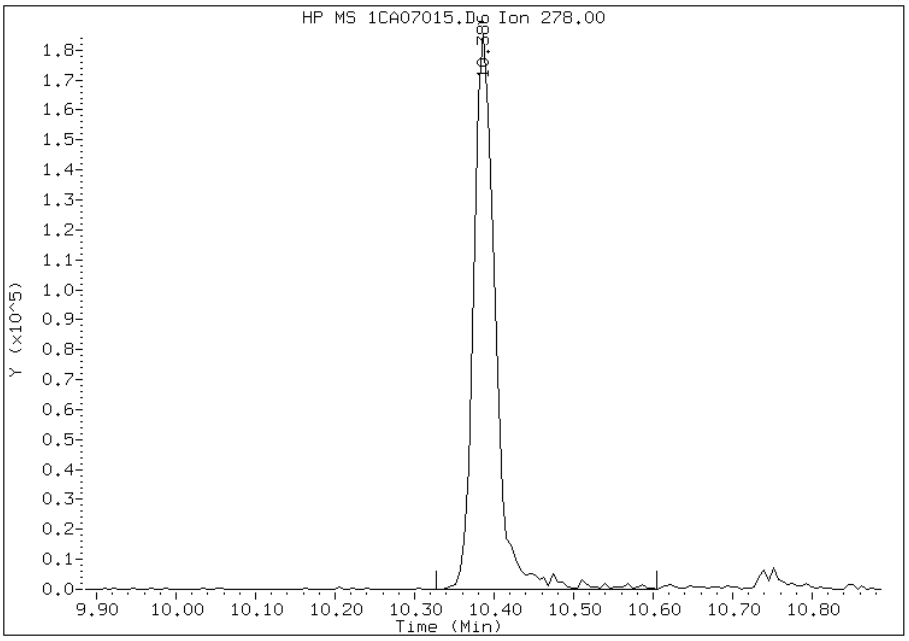
Manual Integration Results

RT: 10.39

Response: 352888

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

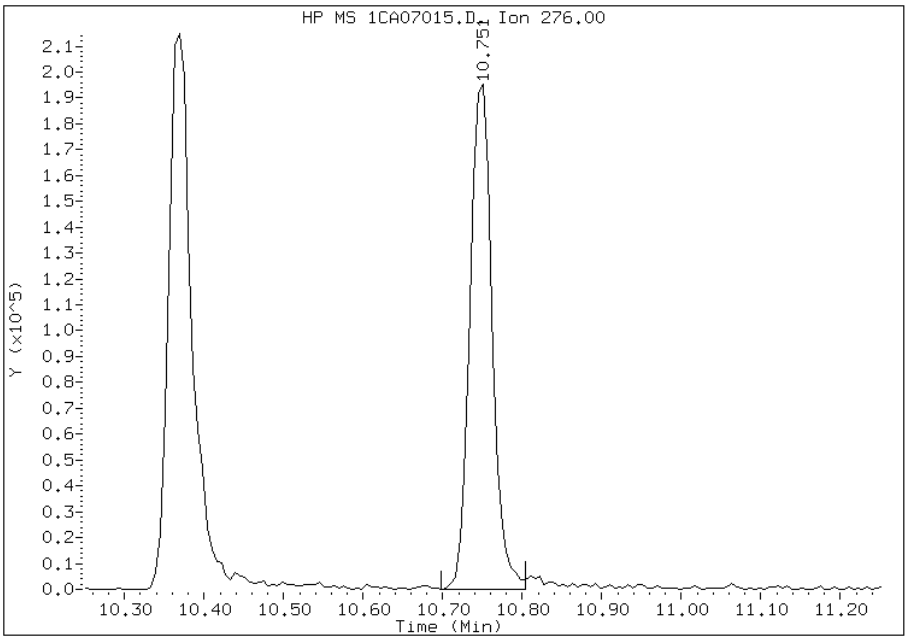
Processing Integration Results

RT: 10.75

Response: 377997

Amount: 5

Conc: 5



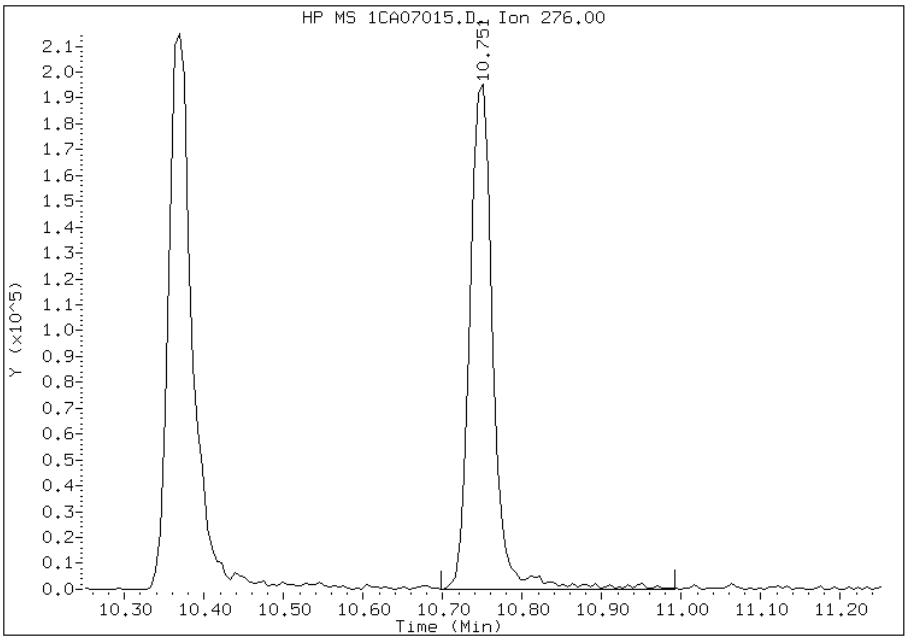
Manual Integration Results

RT: 10.75

Response: 397056

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07016.D
Lab Smp Id: IC-1489897
Inj Date : 07-JAN-2013 16:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:59 Cal File: 1CA07015.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2057907	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1506425	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2920094	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	450297	10.0000	10.5243
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3577892	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3583032	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	562439	10.0000	10.3139
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	360991	10.0000	10.1808
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	337071	10.0000	10.4523
5 Acenaphthylene	152	4.868	4.868	(0.982)	597168	10.0000	9.9641
7 Acenaphthene	154	4.974	4.974	(1.004)	380155	10.0000	10.1136
9 Fluorene	166	5.298	5.298	(1.069)	499898	10.0000	10.3604
11 Phenanthrene	178	5.927	5.927	(1.002)	852208	10.0000	9.7771
12 Anthracene	178	5.962	5.962	(1.008)	820090	10.0000	10.4428
13 Carbazole	167	6.068	6.068	(1.026)	704012	10.0000	10.3206
15 Fluoranthene	202	6.774	6.774	(1.145)	893123	10.0000	10.4863
16 Pyrene	202	6.945	6.945	(0.883)	1032505	10.0000	10.8396
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	948119	10.0000	9.6094
19 Chrysene	228	7.886	7.886	(1.002)	1039885	10.0000	10.2033
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	924867	10.0000	10.5284
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	1029821	10.0000	10.6413
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	891772	10.0000	10.6685
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	744949	10.0000	10.4876(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	785898	10.0000	10.3803(M)
26 Benzo(g,h,i)perylene	276	10.744	10.744	(1.179)	865965	10.0000	10.6183(M)

QC Flag Legend

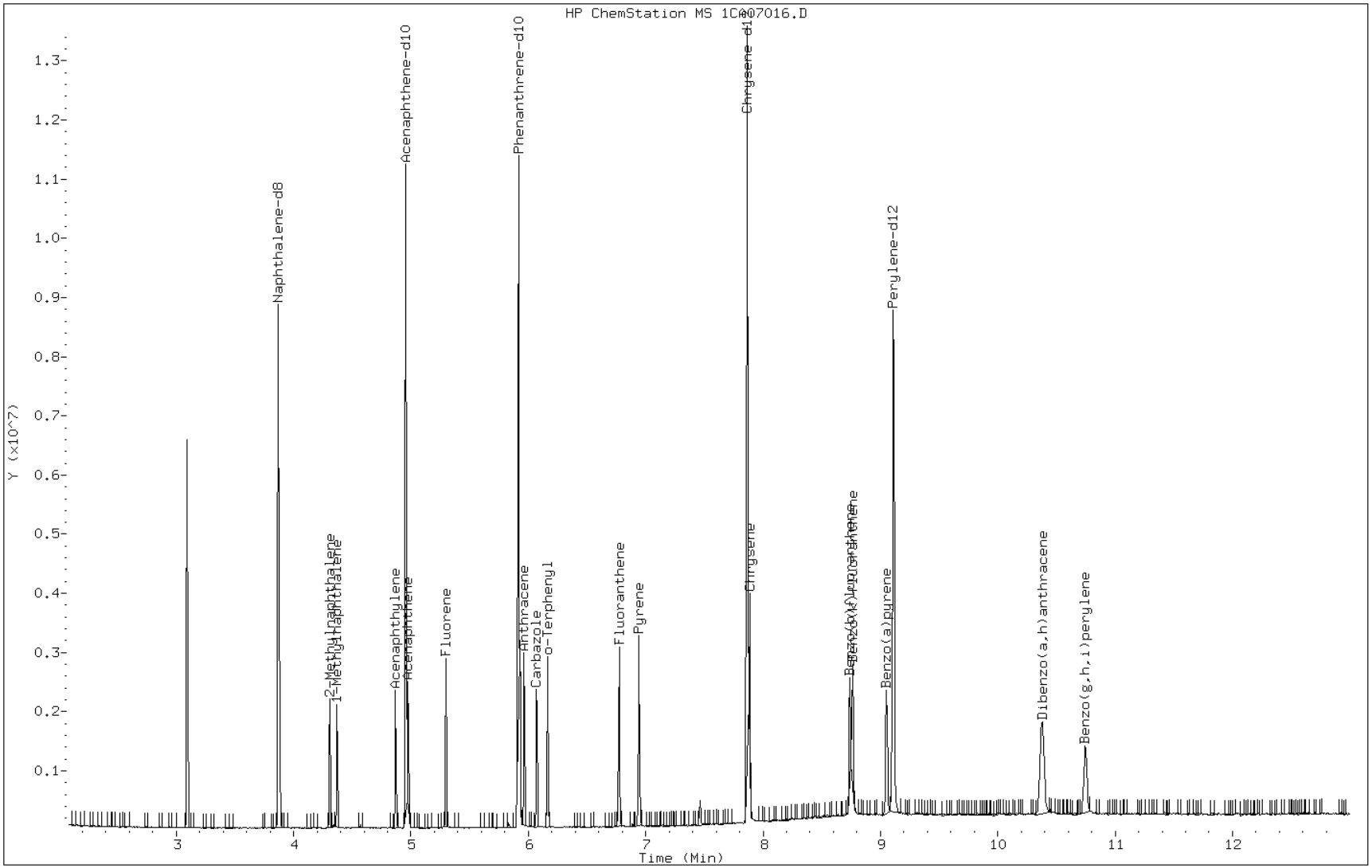
M - Compound response manually integrated.

Data File: 1CA07016.D

Date: 07-JAN-2013 16:18

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

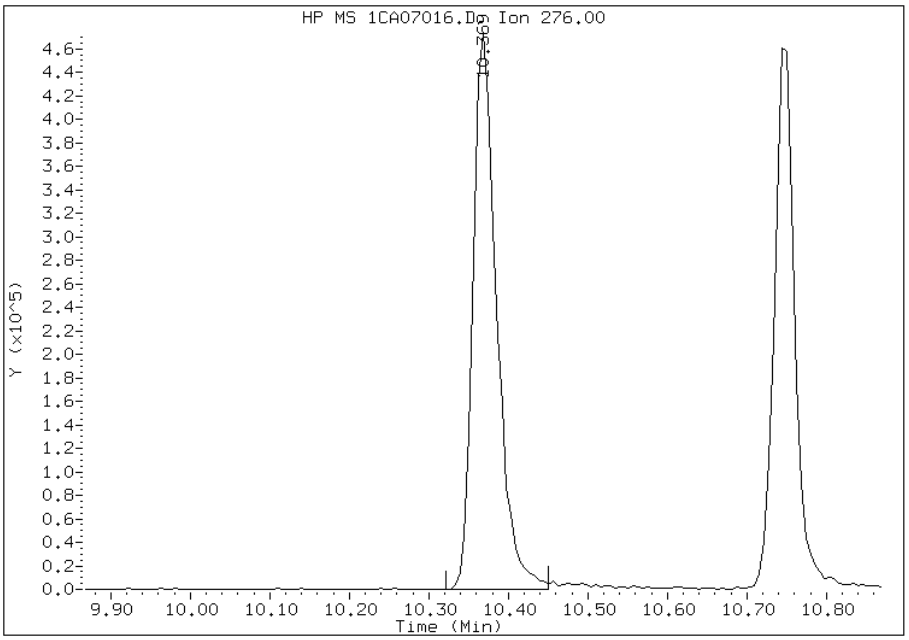
Processing Integration Results

RT: 10.37

Response: 970985

Amount: 12

Conc: 12



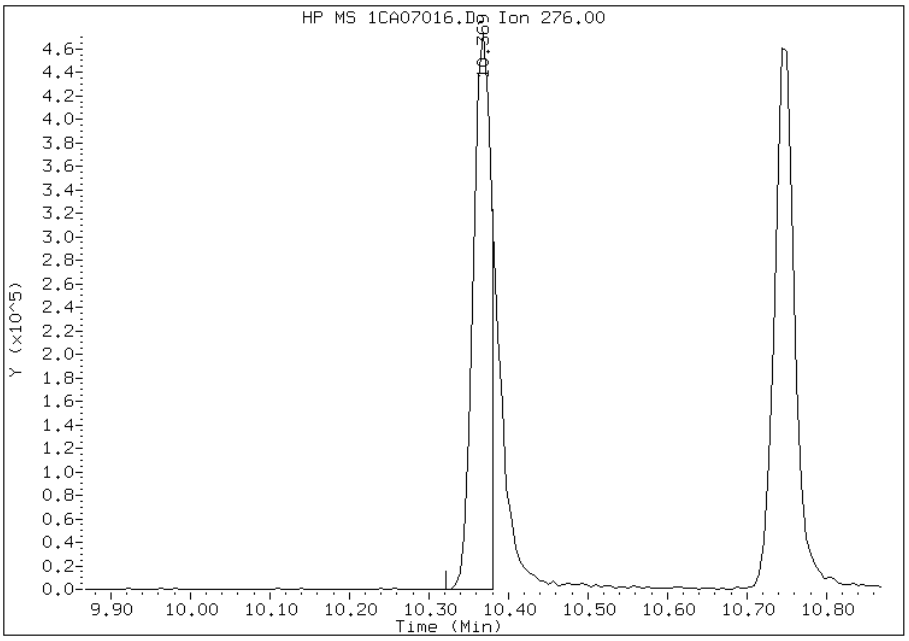
Manual Integration Results

RT: 10.37

Response: 744949

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

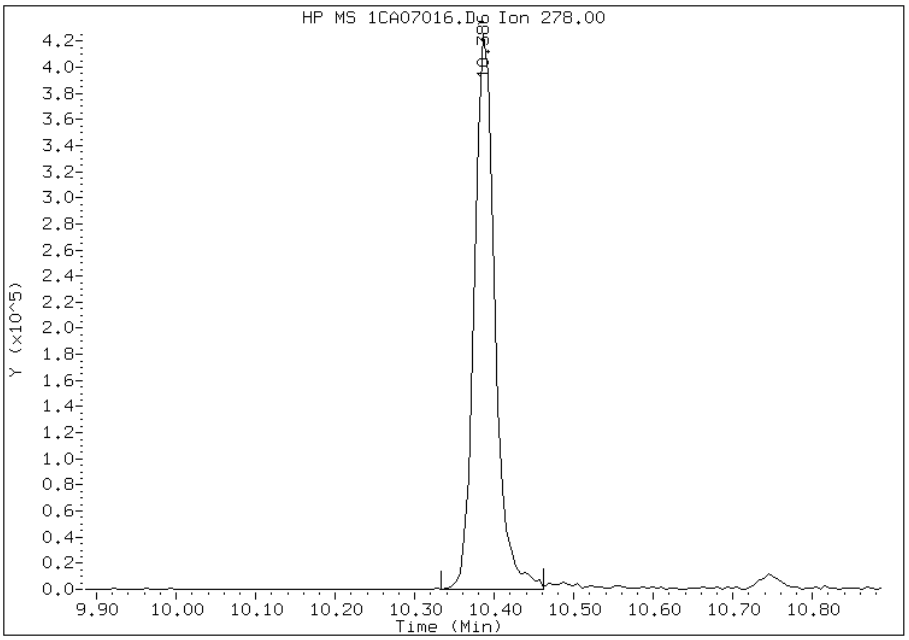
Processing Integration Results

RT: 10.39

Response: 764351

Amount: 10

Conc: 10



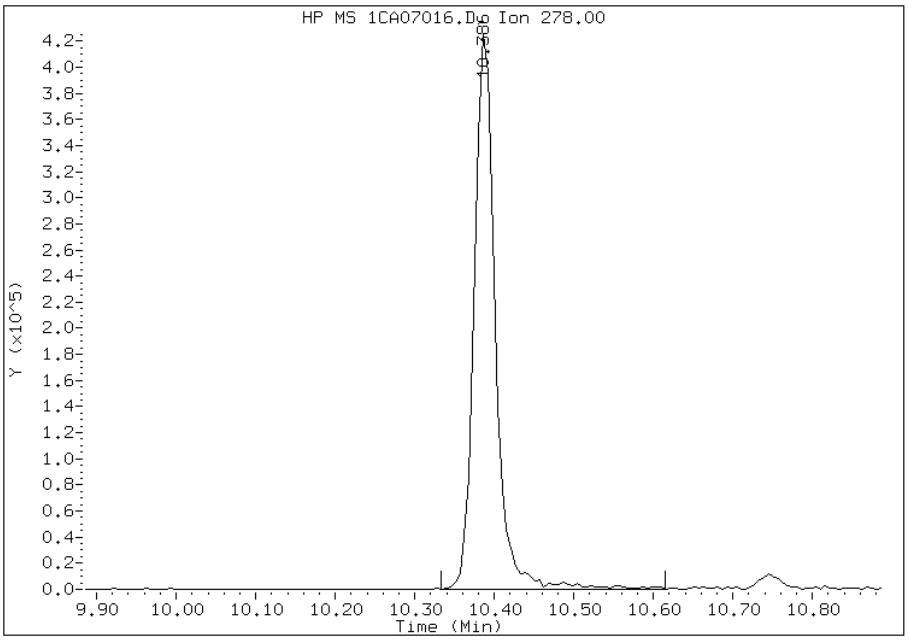
Manual Integration Results

RT: 10.39

Response: 785898

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

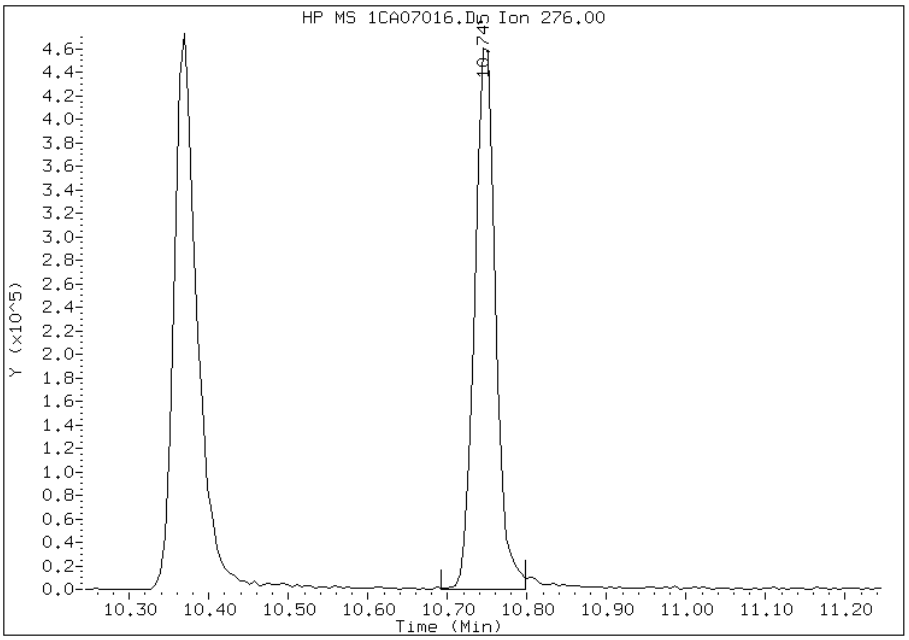
Processing Integration Results

RT: 10.74

Response: 835718

Amount: 10

Conc: 10



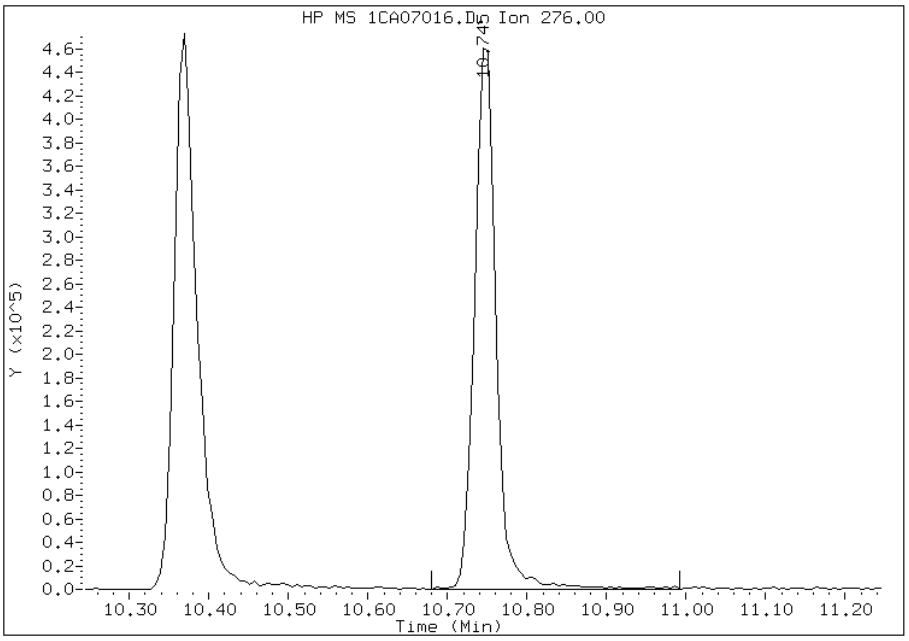
Manual Integration Results

RT: 10.74

Response: 865965

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07017.D
Lab Smp Id: ICIS-1489898
Inj Date : 07-JAN-2013 16:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:18 Cal File: 1CA07016.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2194838	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1653478	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	3141284	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	943151	20.0000	20.4912
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3787207	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3790527	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1132608	20.0000	19.4738
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	738557	20.0000	19.5296
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	714057	20.0000	20.7609
5 Acenaphthylene	152	4.868	4.868	(0.982)	1333542	20.0000	20.2720
7 Acenaphthene	154	4.974	4.974	(1.004)	777625	20.0000	18.8479
9 Fluorene	166	5.298	5.298	(1.069)	1052584	20.0000	19.8748
11 Phenanthrene	178	5.927	5.927	(1.002)	1725035	20.0000	18.3973
12 Anthracene	178	5.962	5.962	(1.008)	1722588	20.0000	20.3906
13 Carbazole	167	6.074	6.074	(1.027)	1516911	20.0000	20.6718
15 Fluoranthene	202	6.774	6.774	(1.145)	1958378	20.0000	21.3746
16 Pyrene	202	6.945	6.945	(0.883)	2128584	20.0000	21.1117
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	1936797	20.0000	18.5450
19 Chrysene	228	7.886	7.886	(1.002)	2079538	20.0000	19.2766
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	1891292	20.0000	20.3514
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	2181246	20.0000	21.3054
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	1856241	20.0000	20.9912
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	1706161	20.0000	22.7051(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	1627151	20.0000	20.3153(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	1745002	20.0000	20.2256(M)

QC Flag Legend

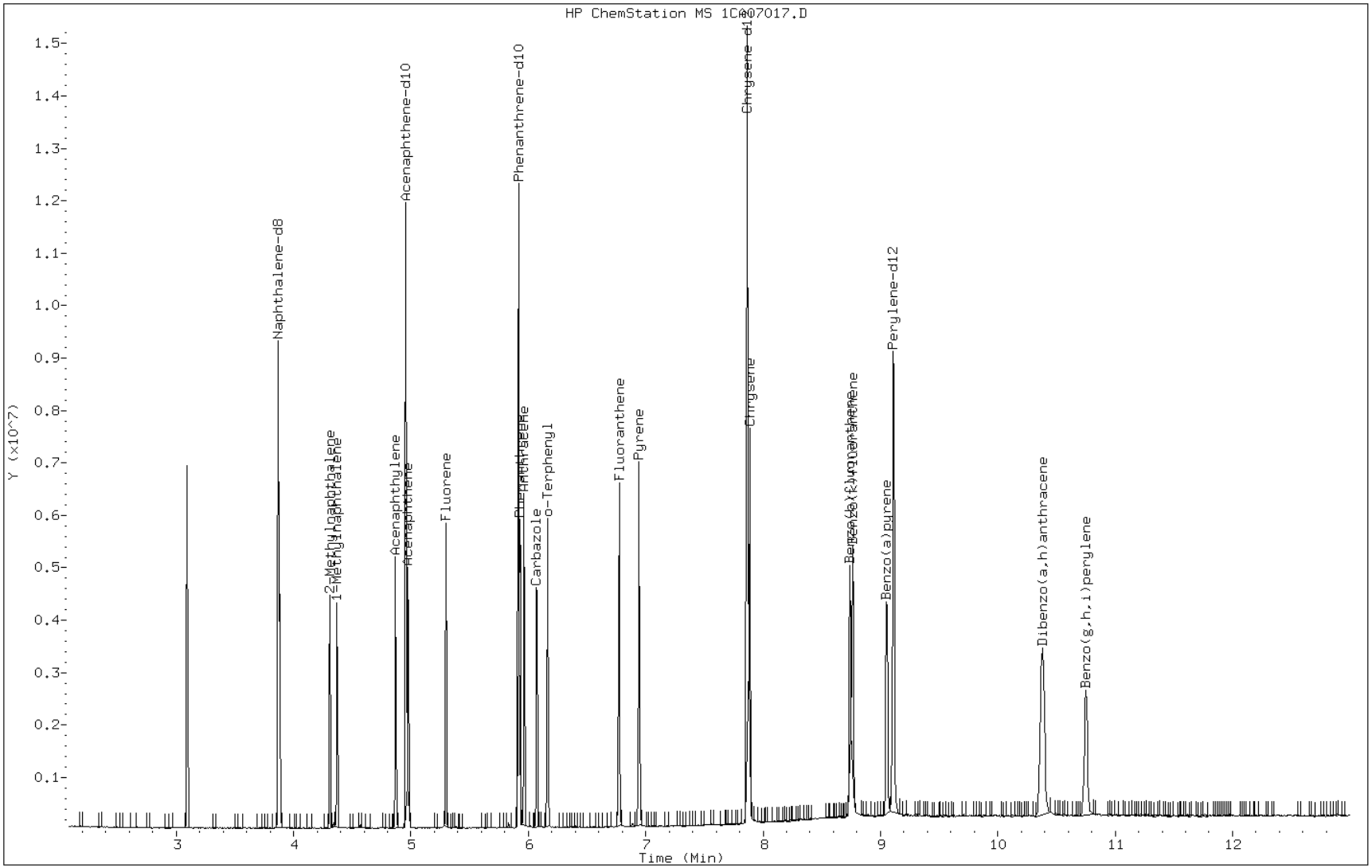
M - Compound response manually integrated.

Data File: 1CA07017.D

Date: 07-JAN-2013 16:36

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

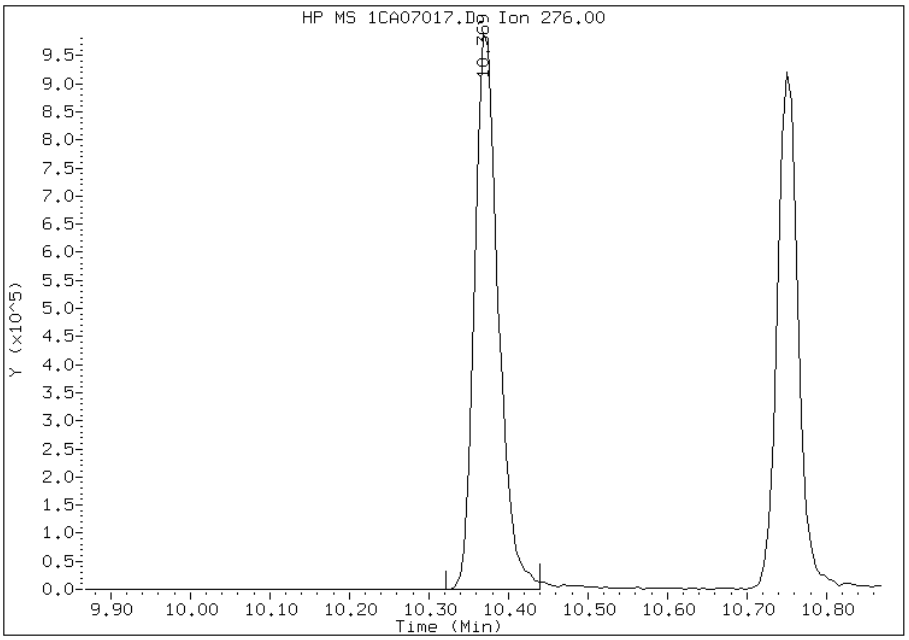
Processing Integration Results

RT: 10.37

Response: 2044337

Amount: 23

Conc: 23



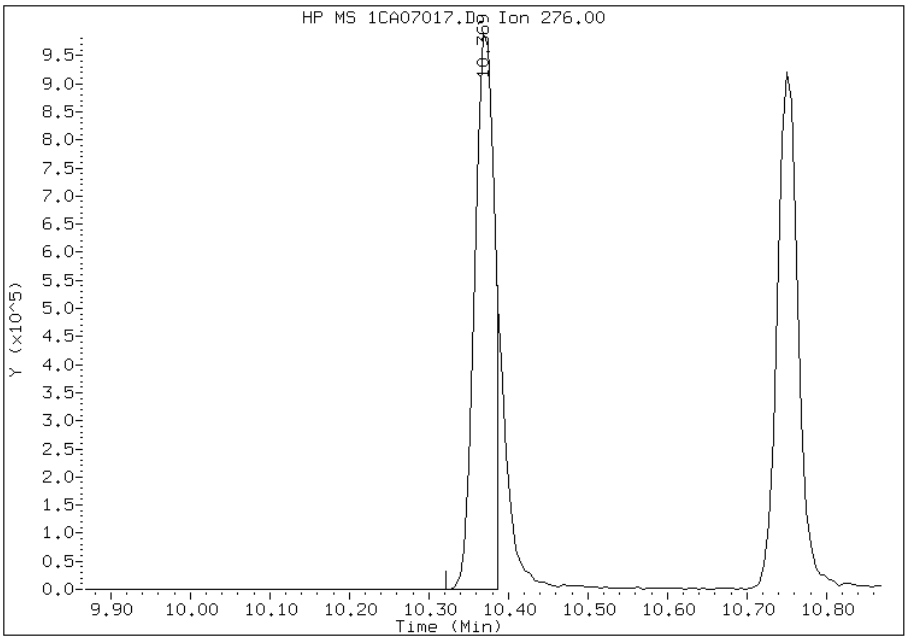
Manual Integration Results

RT: 10.37

Response: 1706161

Amount: 23

Conc: 23



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

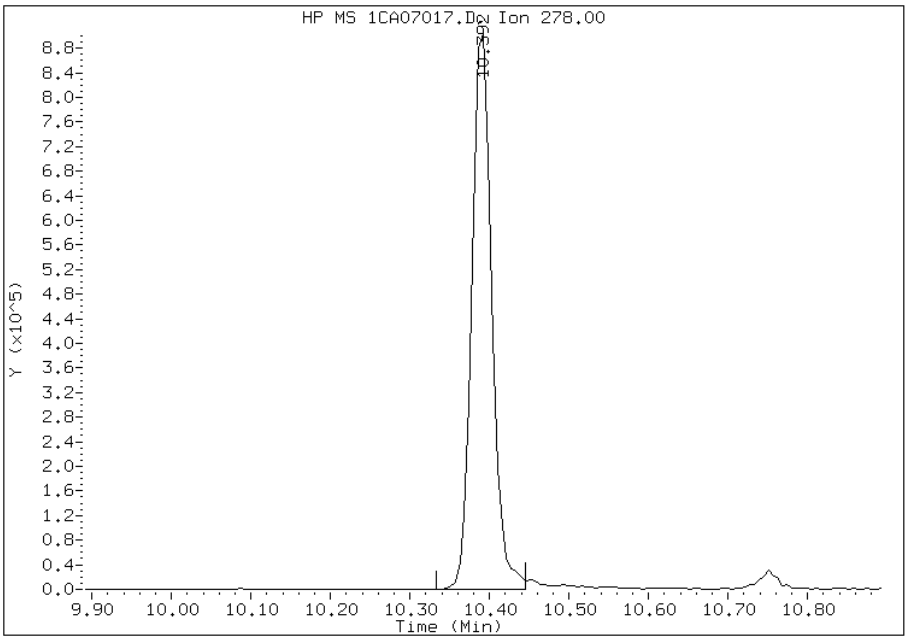
Processing Integration Results

RT: 10.39

Response: 1569221

Amount: 19

Conc: 19



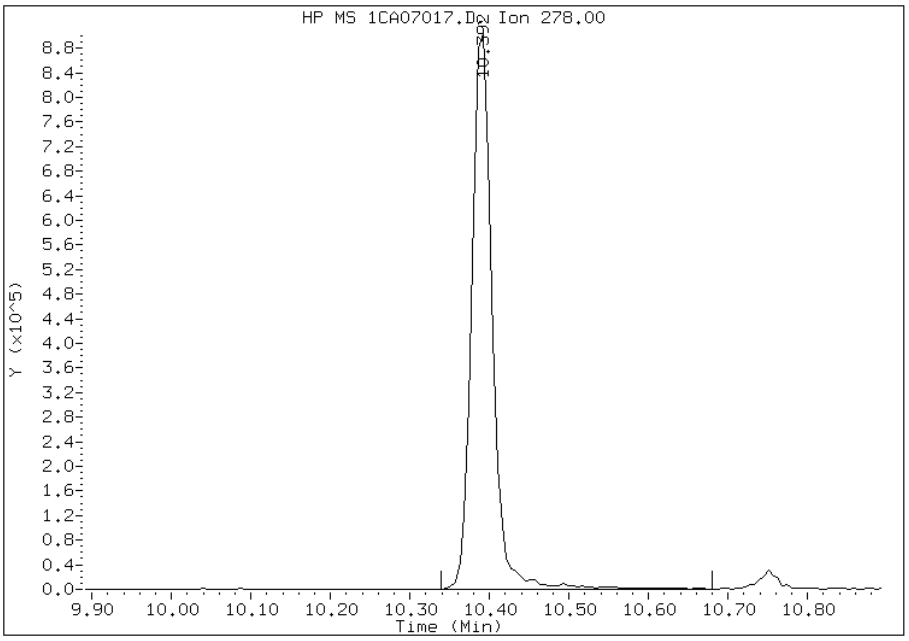
Manual Integration Results

RT: 10.39

Response: 1627151

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

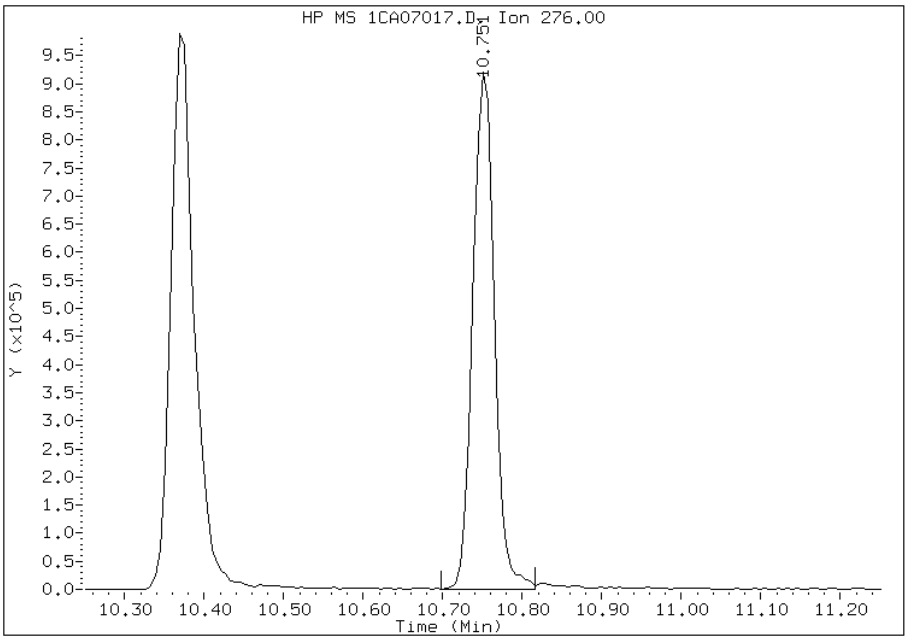
Processing Integration Results

RT: 10.75

Response: 1711397

Amount: 19

Conc: 19



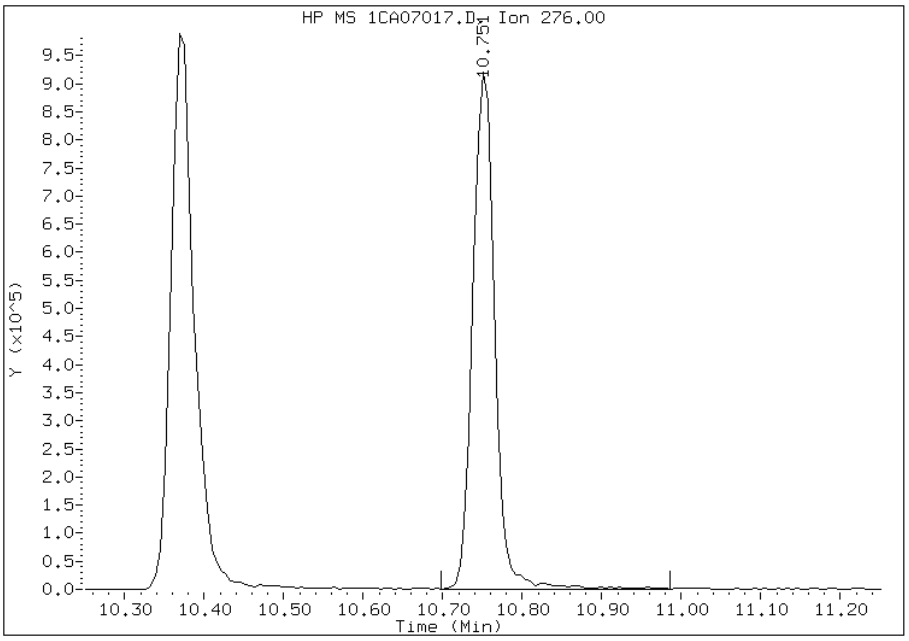
Manual Integration Results

RT: 10.75

Response: 1745002

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07018.D
Lab Smp Id: IC-1489899
Inj Date : 07-JAN-2013 16:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:36 Cal File: 1CA07017.D
Als bottle: 18 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2206384	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1682844	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	3224181	40.0000	
$ 14 o-Terphenyl	230	6.169	6.169	(1.043)	1447125	30.0000	30.6324
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3659777	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3629385	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1744899	30.0000	29.8445
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1125305	30.0000	29.6006
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1099203	30.0000	31.7916
5 Acenaphthylene	152	4.869	4.869	(0.982)	2078096	30.0000	31.0392
7 Acenaphthene	154	4.974	4.974	(1.004)	1212087	30.0000	28.8657
9 Fluorene	166	5.298	5.298	(1.069)	1642686	30.0000	30.4758
11 Phenanthrene	178	5.927	5.927	(1.002)	2725408	30.0000	28.3189
12 Anthracene	178	5.963	5.963	(1.008)	2681981	30.0000	30.9308
13 Carbazole	167	6.074	6.074	(1.027)	2392859	30.0000	31.7704
15 Fluoranthene	202	6.774	6.774	(1.145)	2977438	30.0000	31.6615
16 Pyrene	202	6.945	6.945	(0.883)	3254878	30.0000	33.4065
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	2964525	30.0000	29.3740
19 Chrysene	228	7.886	7.886	(1.002)	3031738	30.0000	29.0818
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	2773683	30.0000	31.1717
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	3267104	30.0000	33.3285
22 Benzo(a)pyrene	252	9.057	9.057	(0.994)	2808161	30.0000	33.1659
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.139)	2564602	30.0000	35.6443(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	2451088	30.0000	31.9610
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	2713188	30.0000	32.8438

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CA07018.D

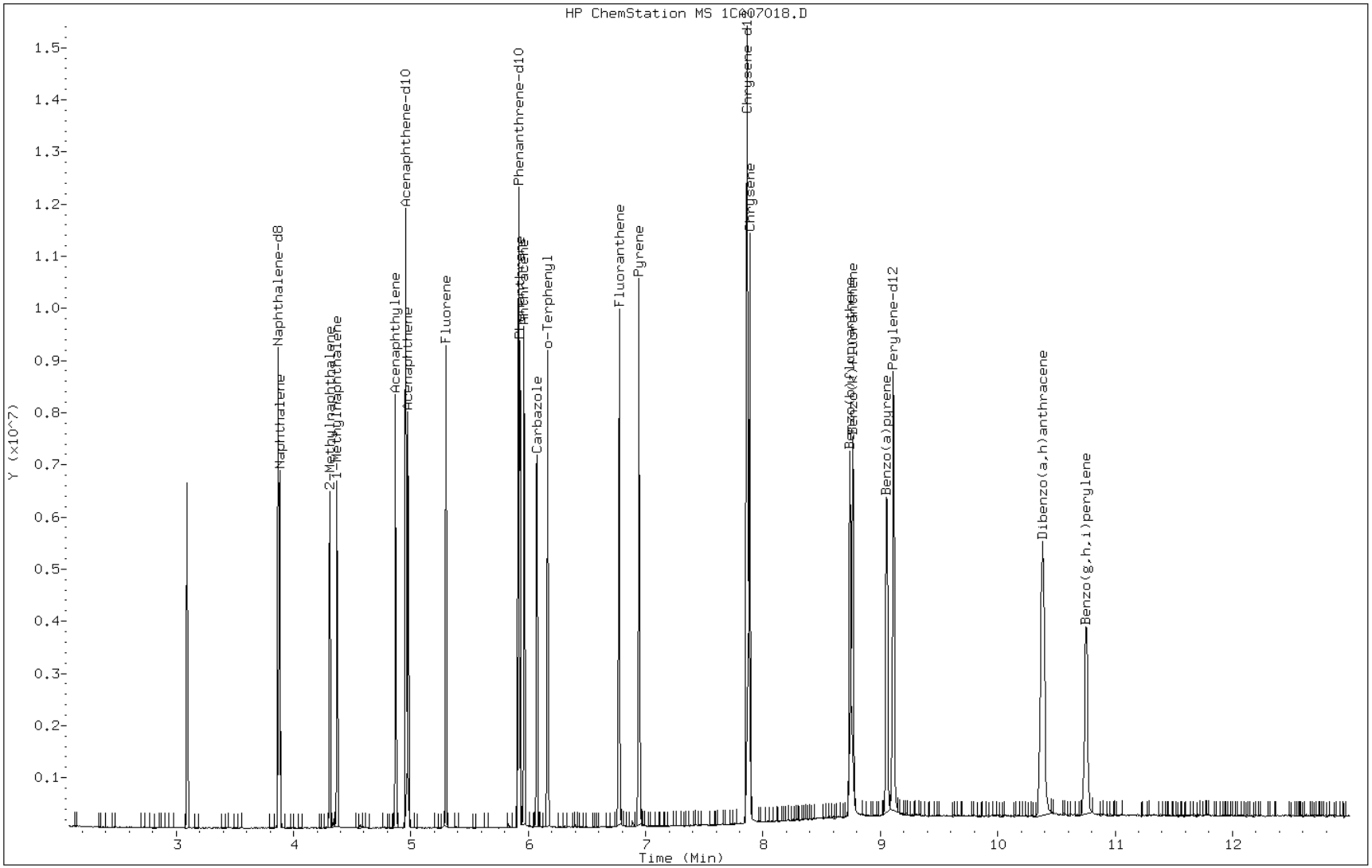
Date: 07-JAN-2013 16:54

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1489899

Operator: SCC



Manual Integration Report

Data File: 1CA07018.D
Inj. Date and Time: 07-JAN-2013 16:54
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

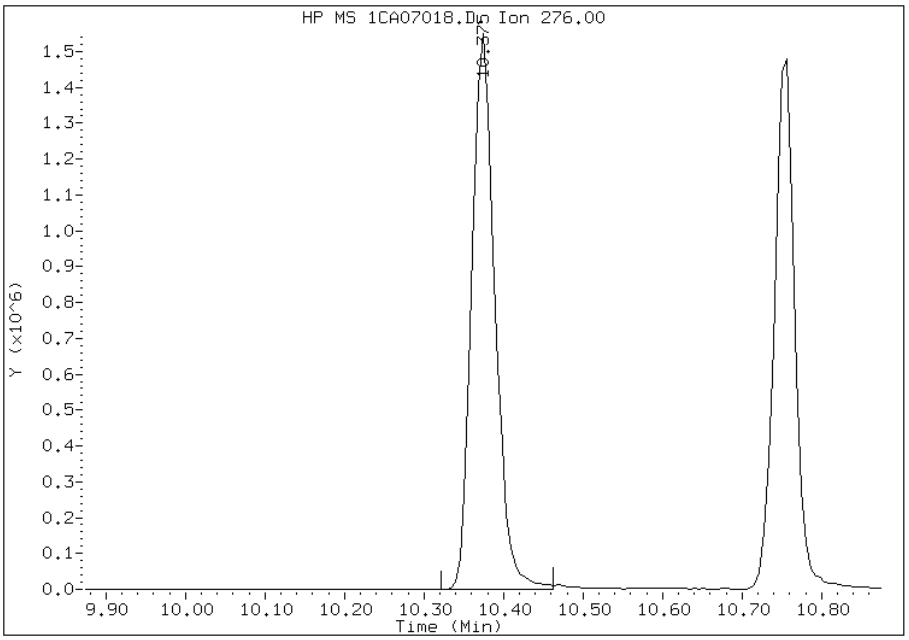
Processing Integration Results

RT: 10.37

Response: 3123860

Amount: 35

Conc: 35



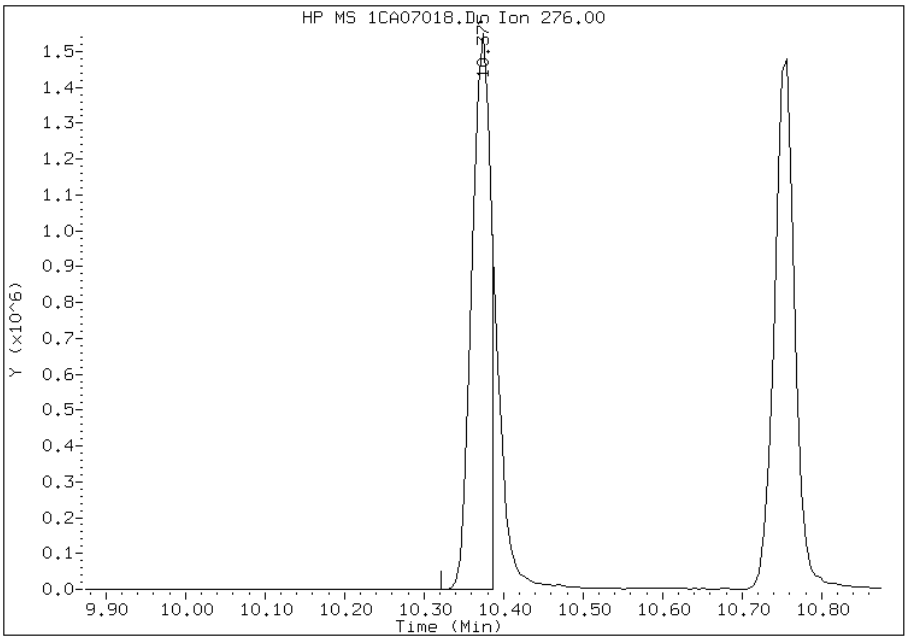
Manual Integration Results

RT: 10.37

Response: 2564602

Amount: 36

Conc: 36



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07019.D
Lab Smp Id: IC-1489900
Inj Date : 07-JAN-2013 17:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:41 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:54 Cal File: 1CA07018.D
Als bottle: 19 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	1965517	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1517262	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2863889	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	2145891	50.0000	51.1382(A)
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3447806	40.0000	
* 23 Perylene-d12	264	9.115	9.115	(1.000)	3425001	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	2683662	50.0000	51.5260(A)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1715115	50.0000	50.6441(A)
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1642265	50.0000	53.3190(A)
5 Acenaphthylene	152	4.869	4.869	(0.982)	3143102	50.0000	52.0699(A)
7 Acenaphthene	154	4.974	4.974	(1.004)	1826987	50.0000	48.2578
9 Fluorene	166	5.298	5.298	(1.069)	2448772	50.0000	50.3886(A)
11 Phenanthrene	178	5.933	5.933	(1.003)	3980821	50.0000	46.5673
12 Anthracene	178	5.963	5.963	(1.008)	4020655	50.0000	52.2031(A)
13 Carbazole	167	6.074	6.074	(1.027)	3531798	50.0000	52.7916(A)
15 Fluoranthene	202	6.774	6.774	(1.145)	4473693	50.0000	53.5573(A)
16 Pyrene	202	6.945	6.945	(0.883)	4789001	50.0000	52.1740(A)
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	4538204	50.0000	47.7313
19 Chrysene	228	7.892	7.892	(1.003)	4663655	50.0000	47.4863
20 Benzo(b)fluoranthene	252	8.745	8.745	(0.959)	4834833	50.0000	57.5782(A)
21 Benzo(k)fluoranthene	252	8.768	8.768	(0.962)	4750961	50.0000	51.3578(A)
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	4467973	50.0000	55.9181(A)
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.138)	3772962	50.0000	55.5680(AM)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	3909634	50.0000	54.0220(A)
26 Benzo(g,h,i)perylene	276	10.762	10.762	(1.181)	4151782	50.0000	53.2574(A)

QC Flag Legend

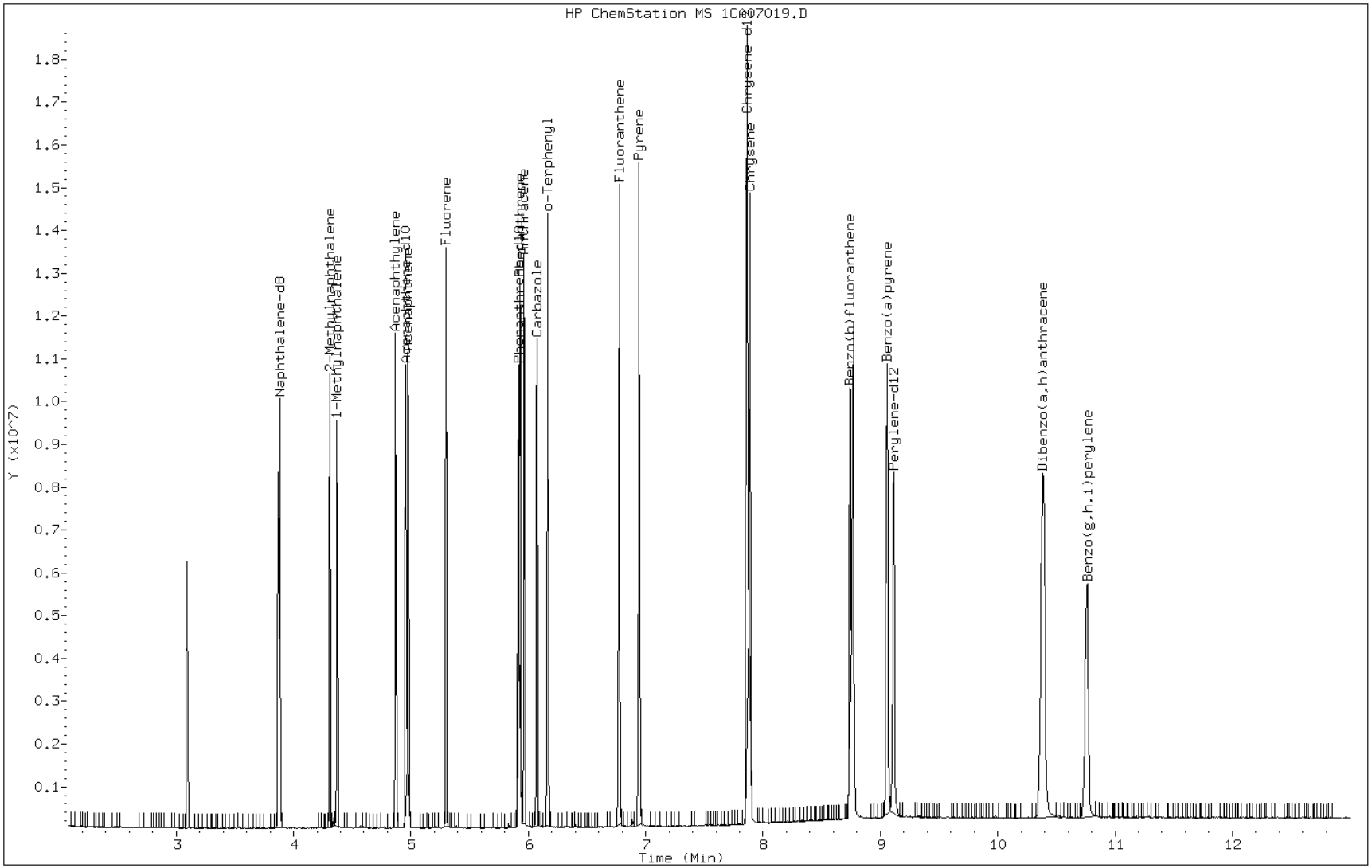
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CA07019.D

Date: 07-JAN-2013 17:13

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489900 Operator: SCC



Manual Integration Report

Data File: 1CA07019.D
Inj. Date and Time: 07-JAN-2013 17:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

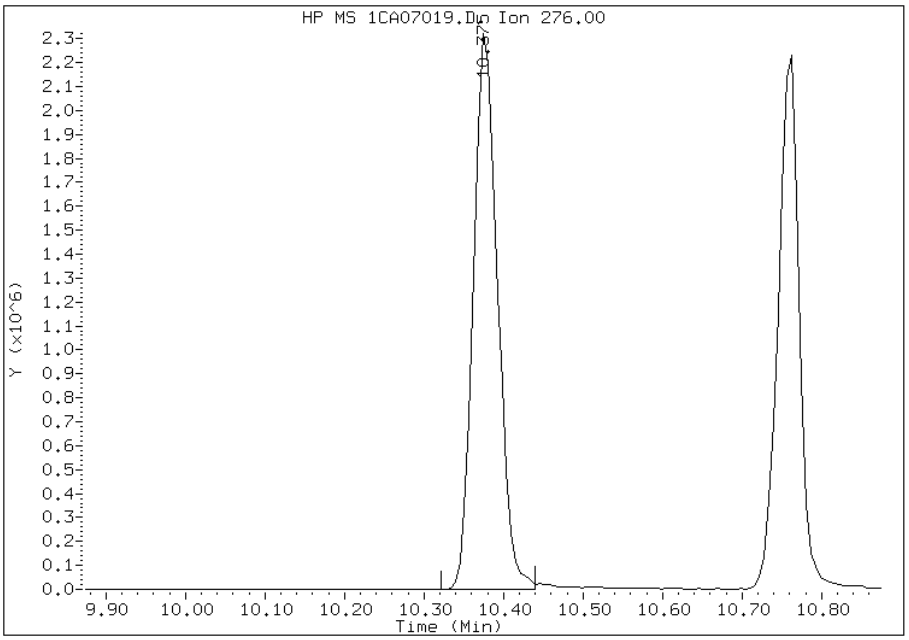
Processing Integration Results

RT: 10.37

Response: 4872897

Amount: 57

Conc: 57



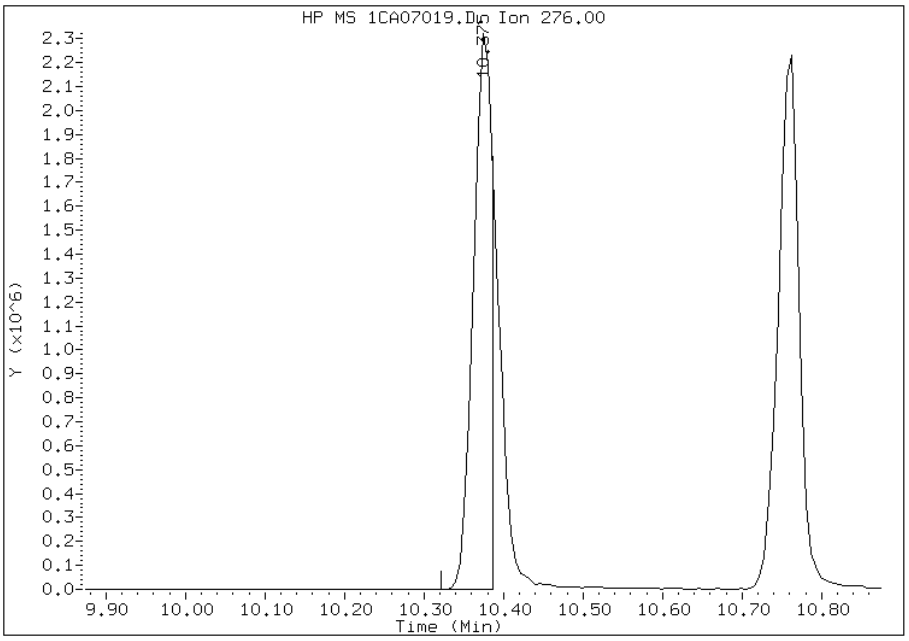
Manual Integration Results

RT: 10.37

Response: 3772962

Amount: 56

Conc: 56



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:40
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Lab Sample ID: ICV 660-133227/10 Calibration Date: 01/07/2013 17:31

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CA07020.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.007	0.0000	19000	20000	-5.0	35.0
2-Methylnaphthalene	Ave	0.6892	0.6589	0.0000	19100	20000	-4.4	35.0
1-Methylnaphthalene	Ave	0.6268	0.6593	0.0000	21000	20000	5.2	35.0
Acenaphthylene	Ave	1.591	1.636	0.0000	20600	20000	2.8	35.0
Acenaphthene	Ave	0.998	0.995	0.0000	19900	20000	-0.3	35.0
Fluorene	Ave	1.281	1.256	0.0000	19600	20000	-1.9	35.0
Phenanthrene	Ave	1.194	1.049	0.0000	17600	20000	-12.2	35.0
Anthracene	Ave	1.076	1.057	0.0000	19700	20000	-1.7	35.0
Carbazole	Ave	0.9344	0.9714	0.0000	20800	20000	4.0	35.0
Fluoranthene	Ave	1.167	1.235	0.0000	21200	20000	5.9	35.0
Pyrene	Ave	1.065	1.062	0.0000	19900	20000	-0.3	35.0
Benzo[a]anthracene	Ave	1.103	1.074	0.0000	19500	20000	-2.6	35.0
Chrysene	Ave	1.139	1.025	0.0000	18000	20000	-10.0	35.0
Benzo[b]fluoranthene	Ave	0.9807	0.9511	0.0000	19400	20000	-3.0	35.0
Benzo[k]fluoranthene	Ave	1.080	1.106	0.0000	20500	20000	2.4	35.0
Benzo[a]pyrene	Ave	0.9332	0.8638	0.0000	18500	20000	-7.4	35.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.8346	0.0000	18600	20000	-6.9	35.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8921	0.0000	21100	20000	5.5	35.0
Benzo[g,h,i]perylene	Ave	0.9104	0.8897	0.0000	19500	20000	-2.3	35.0
o-Terphenyl	Ave	0.5861	0.5611	0.0000	19100	20000	-4.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07020.D
Lab Smp Id: ICV-1448440
Inj Date : 07-JAN-2013 17:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:43 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 20 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2417094	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1838803	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.916	(1.000)	3573060	40.0000	
$ 14 o-Terphenyl	230	6.168	6.169	(1.043)	1002344	19.1457	19.1456
* 18 Chrysene-d12	240	7.868	7.869	(1.000)	4267463	40.0000	
* 23 Perylene-d12	264	9.115	9.116	(1.000)	4342564	40.0000	
2 Naphthalene	128	3.880	3.881	(1.003)	1216880	18.9990	18.9989
3 2-Methylnaphthalene	142	4.310	4.309	(1.114)	796260	19.1194	19.1193
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	796834	21.0373	21.0373
5 Acenaphthylene	152	4.868	4.869	(0.982)	1503892	20.5575	20.5575
7 Acenaphthene	154	4.980	4.975	(1.005)	914978	19.9420	19.9419
9 Fluorene	166	5.298	5.298	(1.069)	1155136	19.6129	19.6129
11 Phenanthrene	178	5.933	5.934	(1.003)	1873312	17.5645	17.5644
12 Anthracene	178	5.963	5.963	(1.008)	1888199	19.6500	19.6500
13 Carbazole	167	6.074	6.075	(1.027)	1735453	20.7921	20.7920
15 Fluoranthene	202	6.774	6.775	(1.145)	2206550	21.1730	21.1730
16 Pyrene	202	6.945	6.945	(0.883)	2266055	19.9459	19.9458

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.862	7.863	(0.999)	2292513	19.4807	19.4807
19 Chrysene	228	7.886	7.892	(1.002)	2187685	17.9970	17.9969
20 Benzo(b)fluoranthene	252	8.739	8.745	(0.959)	2065017	19.3961	19.3961
21 Benzo(k)fluoranthene	252	8.762	8.769	(0.961)	2402437	20.4829	20.4829
22 Benzo(a)pyrene	252	9.051	9.057	(0.993)	1875598	18.5138	18.5138
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.375	(1.137)	1812061	18.6227	18.6226(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	1936939	21.1089	21.1088
26 Benzo(g,h,i)perylene	276	10.750	10.763	(1.179)	1931721	19.5436	19.5436

QC Flag Legend

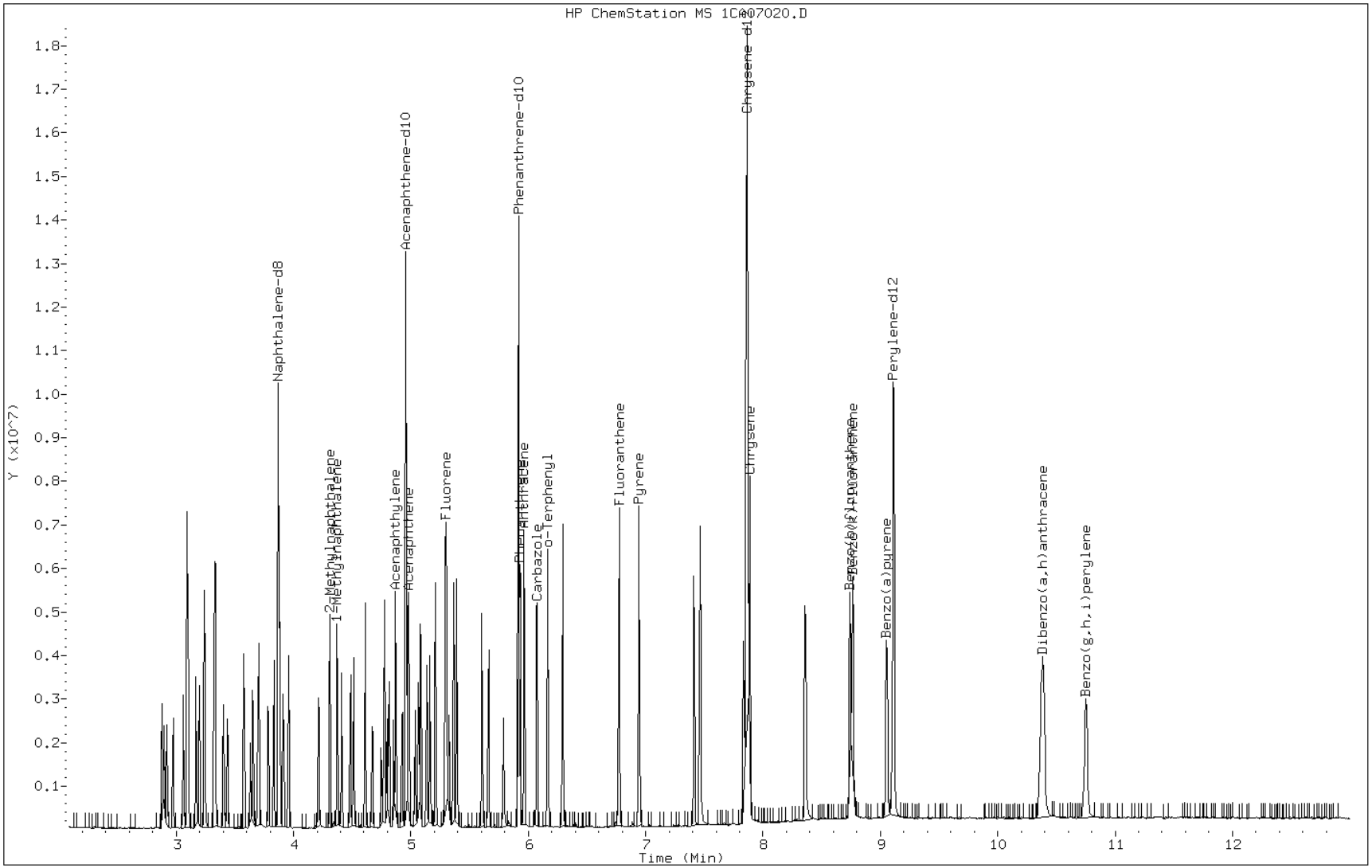
M - Compound response manually integrated.

Data File: 1CA07020.D

Date: 07-JAN-2013 17:31

Client ID: Instrument: BSMC5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1CA07020.D
Inj. Date and Time: 07-JAN-2013 17:31
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

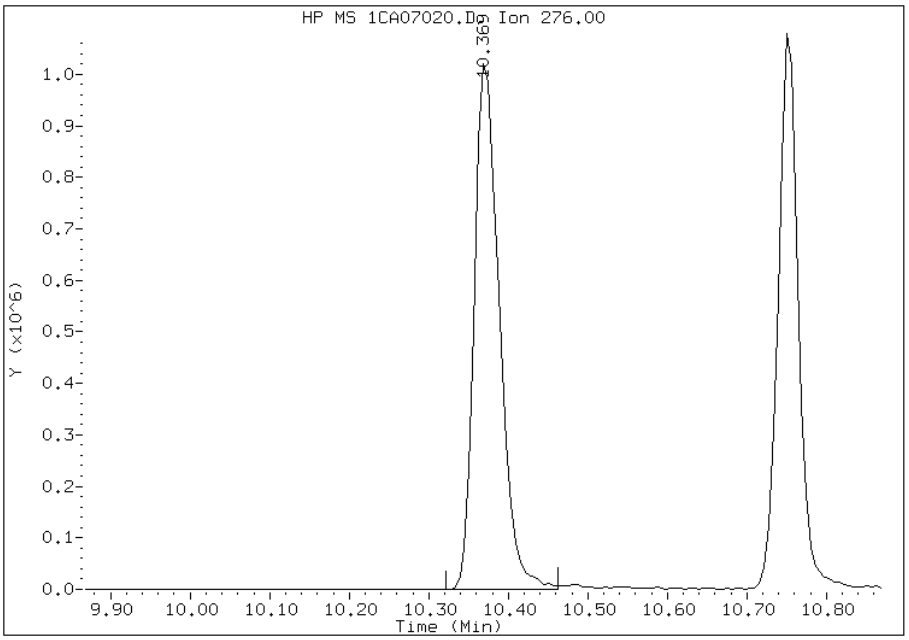
Processing Integration Results

RT: 10.37

Response: 2215563

Amount: 23

Conc: 23



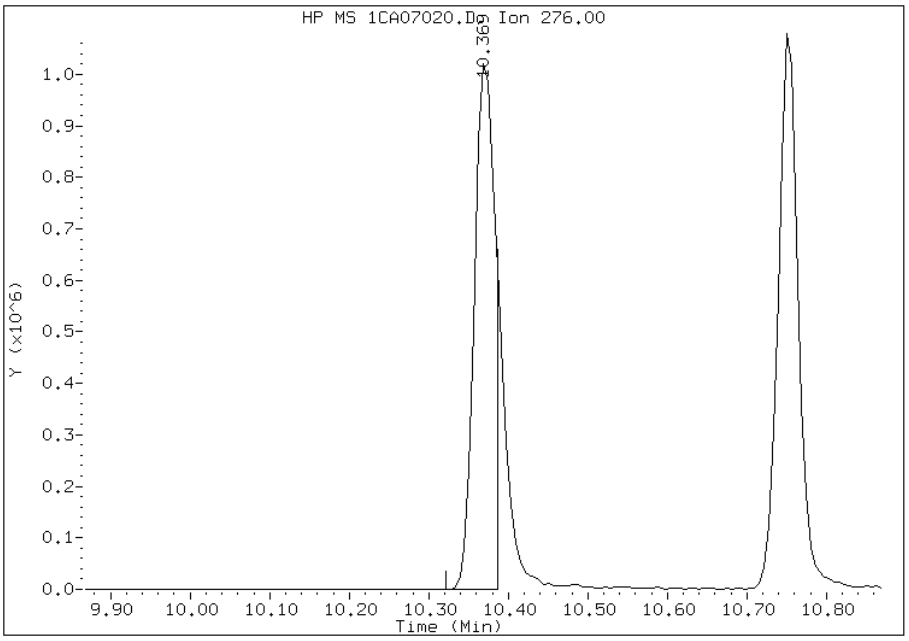
Manual Integration Results

RT: 10.37

Response: 1812061

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:44
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Lab Sample ID: CCVIS 660-134694/3 Calibration Date: 02/20/2013 14:21

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CB20003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.050	0.0000	19800	20000	-0.9	20.0
2-Methylnaphthalene	Ave	0.6892	0.6815	0.0000	19800	20000	-1.1	20.0
1-Methylnaphthalene	Ave	0.6268	0.6252	0.0000	19900	20000	-0.3	20.0
Acenaphthylene	Ave	1.591	1.581	0.0000	19900	20000	-0.7	20.0
Acenaphthene	Ave	0.998	0.9378	0.0000	18800	20000	-6.0	20.0
Fluorene	Ave	1.281	1.246	0.0000	19500	20000	-2.7	20.0
Phenanthrene	Ave	1.194	1.078	0.0000	18100	20000	-9.7	20.0
Anthracene	Ave	1.076	1.087	0.0000	20200	20000	1.1	20.0
Carbazole	Ave	0.9344	0.9573	0.0000	20500	20000	2.4	20.0
Fluoranthene	Ave	1.167	1.229	0.0000	21100	20000	5.4	20.0
Pyrene	Ave	1.065	1.073	0.0000	20200	20000	0.8	20.0
Benzo[a]anthracene	Ave	1.103	1.045	0.0000	19000	20000	-5.2	20.0
Chrysene	Ave	1.139	1.061	0.0000	18600	20000	-6.9	20.0
Benzo[b]fluoranthene	Ave	0.9807	1.005	0.0000	20500	20000	2.5	20.0
Benzo[k]fluoranthene	Ave	1.080	1.089	0.0000	20200	20000	0.8	20.0
Benzo[a]pyrene	Ave	0.9332	1.012	0.0000	21700	20000	8.4	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.8825	0.0000	19700	20000	-1.5	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8749	0.0000	20700	20000	3.5	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.9325	0.0000	20500	20000	2.4	20.0
o-Terphenyl	Ave	0.5861	0.5903	0.0000	20100	20000	0.7	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 20-FEB-2013 14:21
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2210837	40.0000	(H)
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1683867	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3183301	40.0000	(H)
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	939479	20.0000	20.1420(H)
* 18 Chrysene-d12	240	7.804	7.804	(1.000)	3924691	40.0000	(H)
* 23 Perylene-d12	264	9.027	9.027	(1.000)	3965022	40.0000	(H)
2 Naphthalene	128	3.822	3.822	(1.003)	1161170	20.0000	19.8204(H)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	753358	20.0000	19.7768(H)
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	691077	20.0000	19.9473(H)
5 Acenaphthylene	152	4.810	4.810	(0.982)	1331076	20.0000	19.8693
7 Acenaphthene	154	4.922	4.922	(1.005)	789553	20.0000	18.7917
9 Fluorene	166	5.239	5.239	(1.070)	1049261	20.0000	19.4545
11 Phenanthrene	178	5.869	5.869	(1.003)	1715379	20.0000	18.0529(H)
12 Anthracene	178	5.904	5.904	(1.009)	1730331	20.0000	20.2119(H)
13 Carbazole	167	6.010	6.010	(1.027)	1523676	20.0000	20.4899(H)
15 Fluoranthene	202	6.710	6.710	(1.147)	1956631	20.0000	21.0736(H)
16 Pyrene	202	6.880	6.880	(0.882)	2105707	20.0000	20.1532(H)
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	2051227	20.0000	18.9526(H)
19 Chrysene	228	7.827	7.827	(1.003)	2081517	20.0000	18.6191(H)
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	1992905	20.0000	20.5011(H)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	2158916	20.0000	20.1593(H)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	2006304	20.0000	21.6897(H)
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.245	(1.135)	1749506	20.0000	19.6917(MH)
25 Dibenzo(a,h)anthracene	278	10.262	10.262	(1.137)	1734461	20.0000	20.7020(H)
26 Benzo(g,h,i)perylene	276	10.615	10.615	(1.176)	1848687	20.0000	20.4844(H)

QC Flag Legend

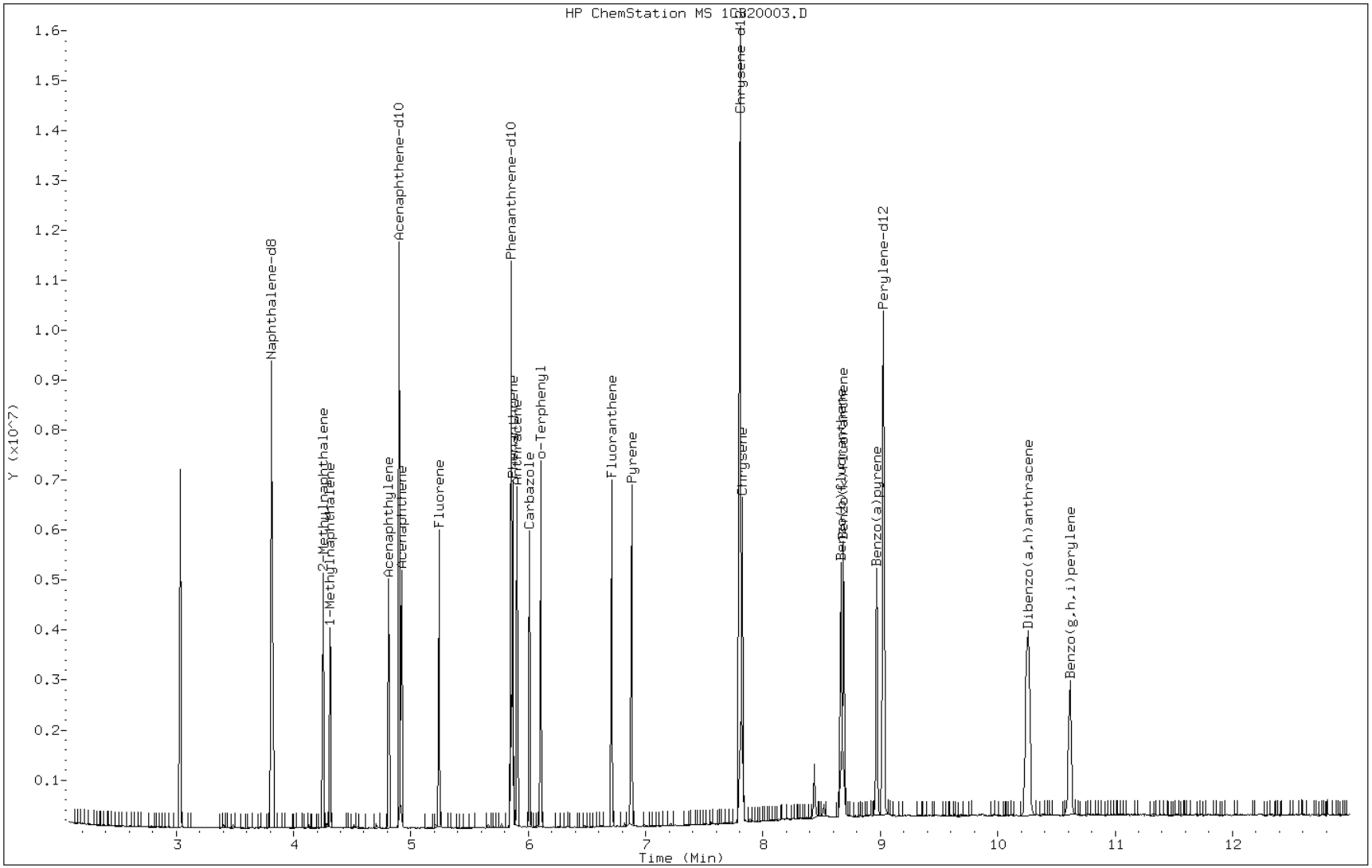
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB20003.D

Date: 20-FEB-2013 14:21

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CB20003.D
Inj. Date and Time: 20-FEB-2013 14:21
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

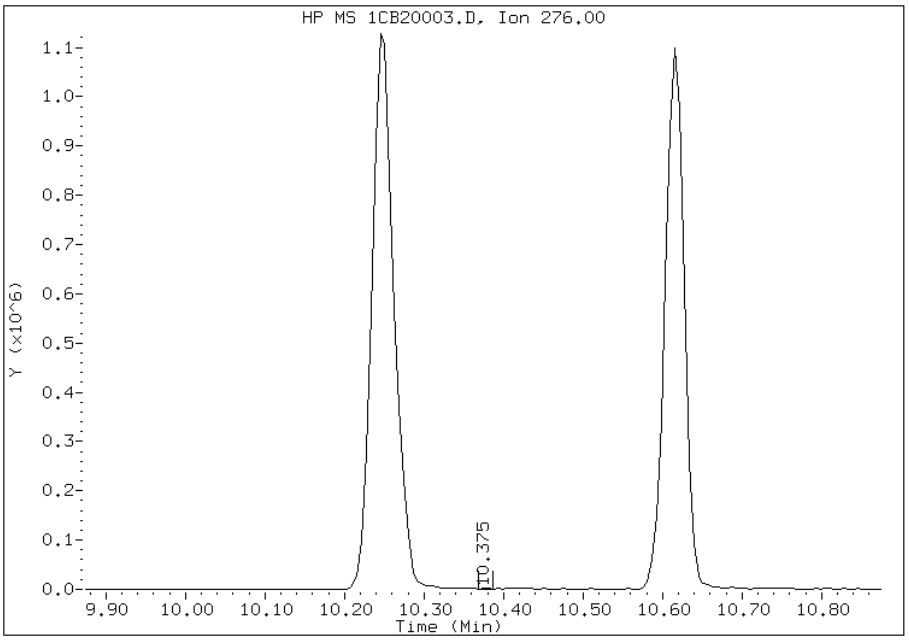
Processing Integration Results

RT: 10.37

Response: 962

Amount: 0

Conc: 0



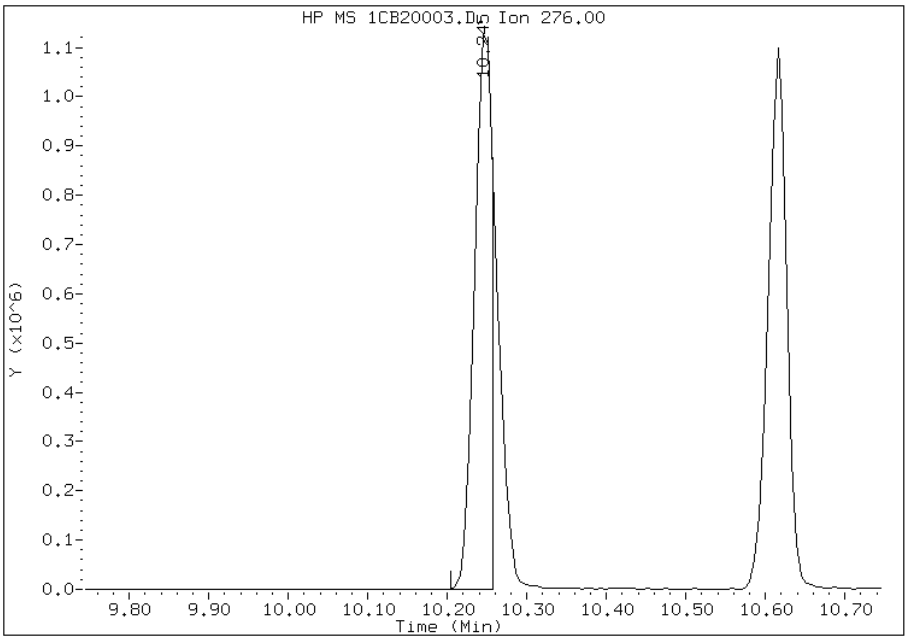
Manual Integration Results

RT: 10.25

Response: 1749506

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 14:36
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JAN-2013 11:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\c-dftpp198.m
Meth Date : 24-Sep-2012 11:04 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

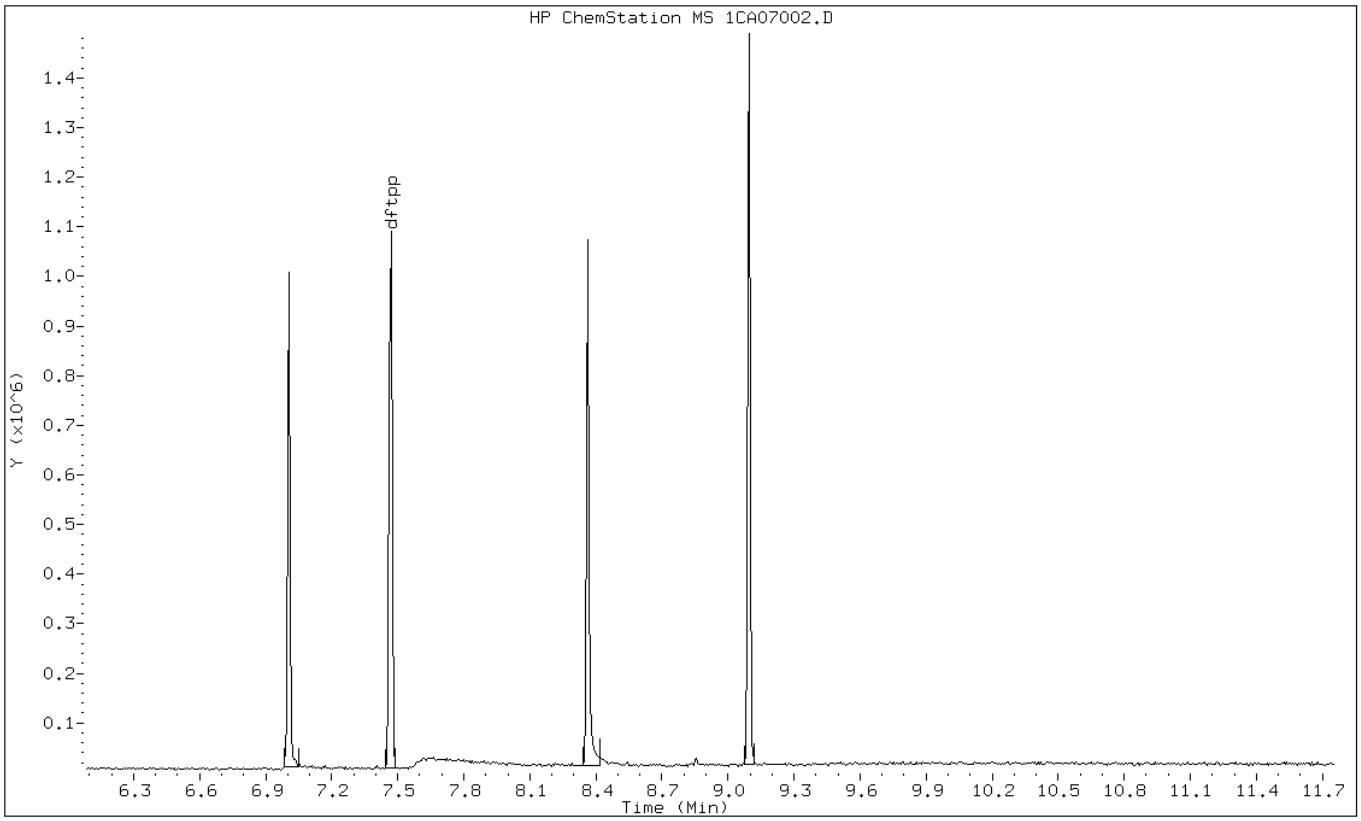
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.469	7.763	-0.294	198	127120			50.00- 0.00	100.00
7.469	7.763	-0.294	51	41280			10.00- 80.00	32.47
7.469	7.763	-0.294	68	533			0.00- 2.00	1.05
7.469	7.763	-0.294	69	50672			0.00- 0.00	39.86
7.469	7.763	-0.294	70	529			0.00- 2.00	1.04
7.469	7.763	-0.294	127	59544			10.00- 80.00	46.84
7.469	7.763	-0.294	197	1231			0.00- 2.00	0.97
7.469	7.763	-0.294	442	114480			50.00- 0.00	90.06
7.469	7.763	-0.294	199	7870			5.00- 9.00	6.19
7.469	7.763	-0.294	275	29224			10.00- 60.00	22.99
7.469	7.763	-0.294	365	3930			1.00- 0.00	3.09
7.469	7.763	-0.294	441	16880			0.01- 99.99	77.01
7.469	7.763	-0.294	443	21920			15.00- 24.00	19.15

Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



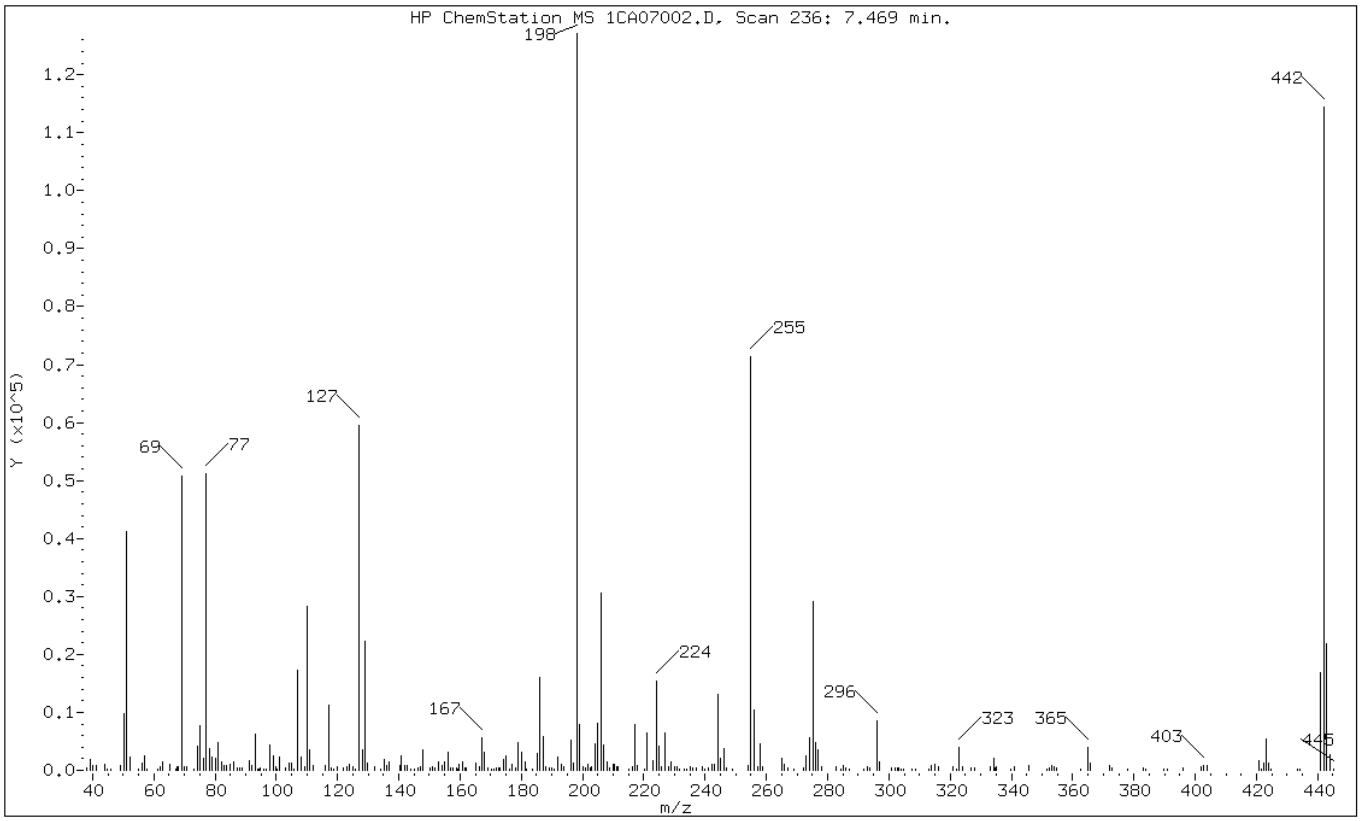
Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	32.47
68	Less than 2.00% of mass 69	0.42 (1.05)
69	Mass 69 relative abundance	39.86
70	Less than 2.00% of mass 69	0.42 (1.04)
127	10.00 - 80.00% of mass 198	46.84
197	Less than 2.00% of mass 198	0.97
442	Greater than 50.00% of mass 198	90.06
199	5.00 - 9.00% of mass 198	6.19
275	10.00 - 60.00% of mass 198	22.99
365	Greater than 1.00% of mass 198	3.09
441	Present, but less than mass 443	13.28
443	15.00 - 24.00% of mass 442	17.24 (19.15)

Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07002.D
Spectrum: HP ChemStation MS 1CA07002.D, Scan 236: 7.469 min.
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	420	119.90	601	196.10	5188	285.10	914
39.10	1782	121.80	475	197.10	1231	286.00	390
40.00	839	123.00	633	198.00	127120	287.10	179
41.10	859	124.00	937	199.00	7870	291.80	160
44.10	1108	125.00	669	200.10	670	293.00	589
44.90	152	125.90	258	200.90	482	293.90	453
45.90	156	127.10	59544	201.60	949	296.00	8526
49.00	871	128.10	3506	202.40	400	297.00	1368
50.10	9842	129.10	22208	203.00	538	300.70	479
51.10	41280	129.90	1266	204.00	4533	302.10	418
52.10	2357	132.10	617	205.00	8018	302.90	472
55.00	276	134.10	298	206.10	30592	303.30	414
56.00	1192	135.20	1953	207.00	4423	304.00	250
57.00	2442	136.10	890	208.00	1503	304.90	167
57.90	185	137.00	1425	208.80	471	307.70	155
61.30	188	140.20	914	210.00	937	308.80	244
62.00	685	140.90	2482	210.50	1006	313.00	279
63.00	1392	141.90	797	211.00	696	313.90	813
65.10	1132	142.90	864	211.60	536	315.00	1012
67.10	153	144.10	161	215.00	234	316.00	692
67.70	533	145.10	150	216.10	583	321.00	591
68.10	627	146.20	391	217.00	7970	322.00	171
69.10	50672	147.10	718	217.90	767	323.00	3997
70.10	529	148.00	3470	220.10	248	324.00	655
70.80	521	150.20	424	221.10	6401	327.00	413
73.10	282	151.00	649	222.80	1599	328.10	455
74.10	4253	151.80	327	224.10	15340	333.00	681
75.10	7783	153.00	1468	225.10	4235	334.10	2080
76.20	2092	154.10	806	225.90	587	334.80	423
77.10	51200	155.00	1543	227.00	6494	335.20	609
78.10	3708	156.00	3046	228.00	644	339.70	262
79.10	2279	156.90	385	228.90	1504	341.10	544
80.00	1989	157.80	369	230.00	552	345.80	748
81.00	4740	158.70	485	230.90	613	351.50	280
82.00	1539	159.20	191	231.70	188	352.30	428
82.90	800	159.80	1069	233.10	217	353.10	740
83.90	857	161.00	1449	234.00	303	354.00	654
85.00	1057	161.70	319	235.00	716	354.70	475
86.10	1480	162.10	352	235.90	363	362.50	264
87.10	445	165.00	1236	237.10	461	365.00	3930

87.90	375	166.20	671
89.00	333	167.00	5703
91.10	1642	168.00	3193
91.90	746	169.00	422
93.10	6202	170.10	237
93.80	300	171.00	275
94.20	188	171.90	443
94.80	488	172.80	465
96.10	190	173.10	403
96.90	185	174.20	1825
98.00	4388	175.10	2490
99.00	2420	176.00	265
99.70	568	176.80	966
100.20	212	178.00	357
101.10	2275	179.00	4862
103.00	381	180.10	3189
104.00	1148	181.10	1541
105.00	1192	181.80	286
105.80	271	183.60	157
107.00	17216	185.10	2863
108.00	2207	186.10	15999
109.20	723	187.10	5787
110.00	28384	188.10	556
111.00	3607	189.20	469
112.10	771	190.10	335
116.00	796	190.60	276
117.00	11205	192.00	2219
118.00	466	193.00	1058
118.90	198	194.00	556

238.90	530	365.90	1347
239.70	227	372.00	894
241.00	373	372.90	491
242.10	1013	378.00	155
243.10	1025	382.90	344
244.10	13028	383.80	260
245.00	2095	389.90	193
246.00	3792	391.00	205
247.10	451	396.00	313
249.10	154	402.00	707
253.90	895	402.90	932
255.00	71336	404.00	827
256.00	10460	421.00	1613
257.10	645	421.60	223
258.00	4542	422.20	1189
258.80	695	423.00	5417
264.90	2158	424.10	1194
266.00	1029	424.70	185
267.20	353	433.30	241
269.00	264	434.10	201
272.10	445	441.00	16880
273.10	2581	442.00	114480
274.00	5681	443.00	21920
275.10	29224	444.00	2789
276.00	4836	445.20	272
277.00	3605		
278.10	644		
282.80	642		
284.50	218		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 20-FEB-2013 13:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.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

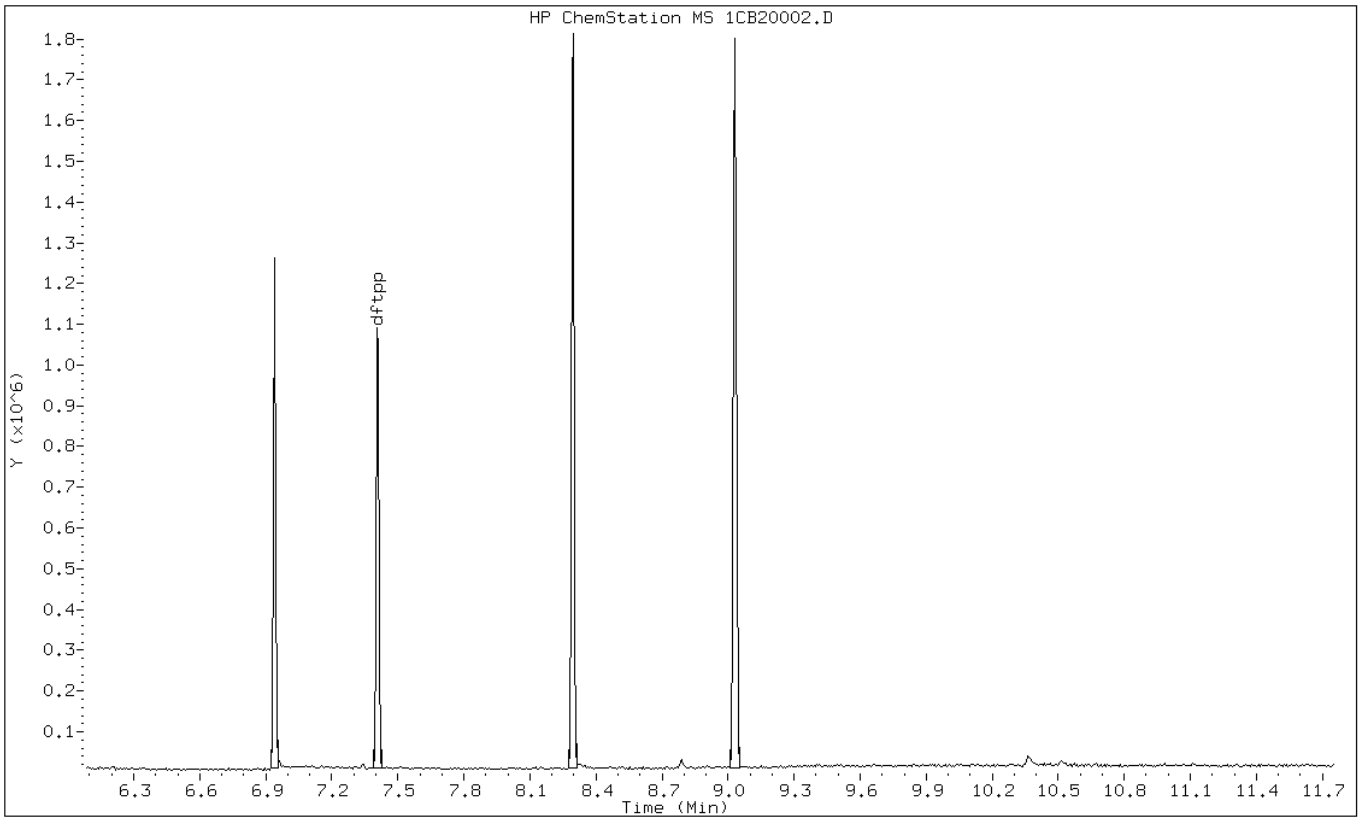
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.404	7.469	-0.065	198	131840			50.00- 0.00	100.00
7.404	7.469	-0.065	51	48176			10.00- 80.00	36.54
7.404	7.469	-0.065	68	824			0.00- 2.00	1.26
7.404	7.469	-0.065	69	65312			0.00- 0.00	49.54
7.404	7.469	-0.065	70	345			0.00- 2.00	0.53
7.404	7.469	-0.065	127	58184			10.00- 80.00	44.13
7.404	7.469	-0.065	197	1224			0.00- 2.00	0.93
7.404	7.469	-0.065	442	81760			50.00- 0.00	62.01
7.404	7.469	-0.065	199	8960			5.00- 9.00	6.80
7.404	7.469	-0.065	275	26288			10.00- 60.00	19.94
7.404	7.469	-0.065	365	3312			1.00- 0.00	2.51
7.404	7.469	-0.065	441	12950			0.01- 99.99	81.11
7.404	7.469	-0.065	443	15965			15.00- 24.00	19.53

Data File: 1CB20002.D

Date: 20-FEB-2013 13:59

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



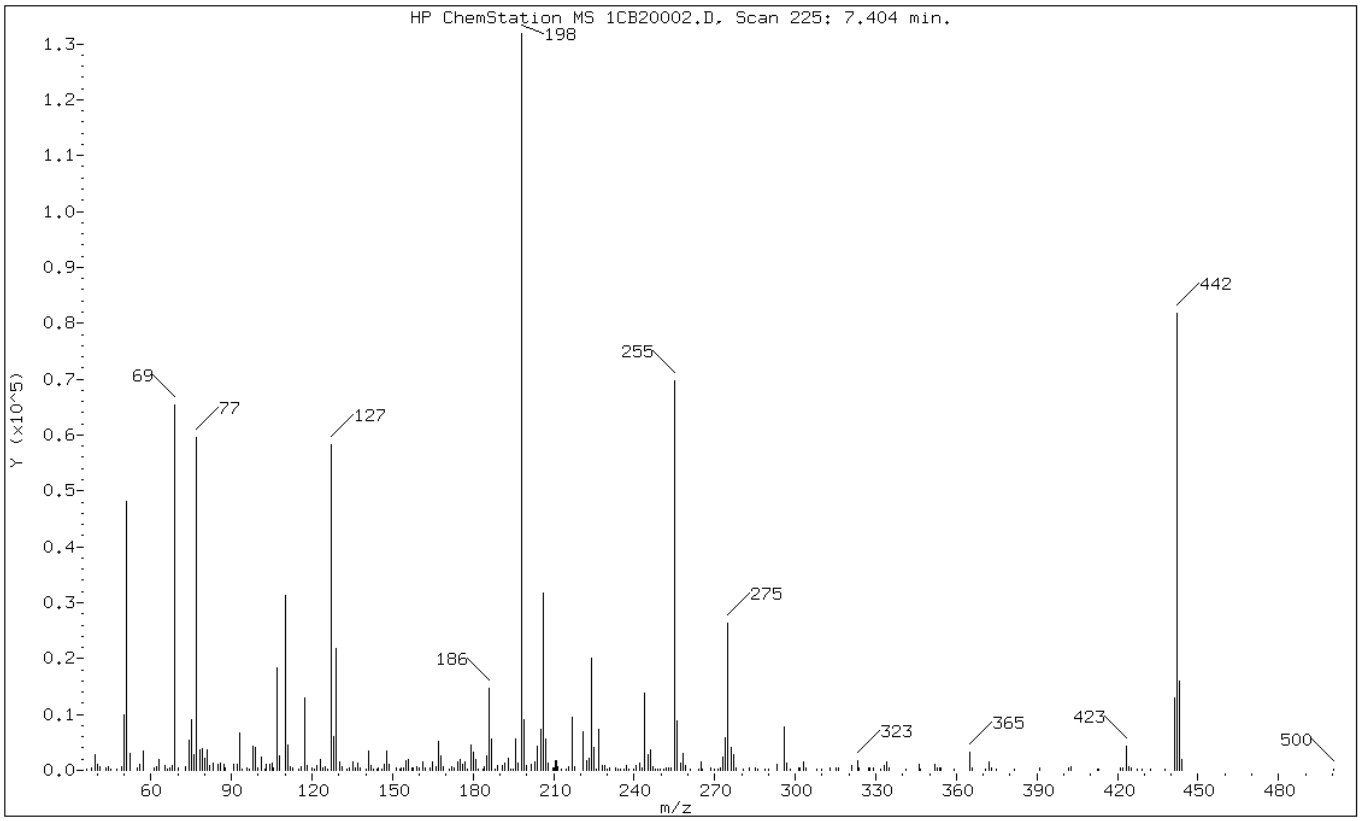
Data File: 1CB20002.D

Date: 20-FEB-2013 13:59

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	36.54
68	Less than 2.00% of mass 69	0.63 (1.26)
69	Mass 69 relative abundance	49.54
70	Less than 2.00% of mass 69	0.26 (0.53)
127	10.00 - 80.00% of mass 198	44.13
197	Less than 2.00% of mass 198	0.93
442	Greater than 50.00% of mass 198	62.01
199	5.00 - 9.00% of mass 198	6.80
275	10.00 - 60.00% of mass 198	19.94
365	Greater than 1.00% of mass 198	2.51
441	Present, but less than mass 443	9.82
443	15.00 - 24.00% of mass 442	12.11 (19.53)

Data File: 1CB20002.D

Date: 20-FEB-2013 13:59

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20002.D
Spectrum: HP ChemStation MS 1CB20002.D, Scan 225: 7.404 min.
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	163	124.00	366	199.00	8960	277.10	2762
38.10	453	125.10	724	200.00	934	278.00	438
39.10	2834	125.90	280	201.60	1033	280.80	190
40.00	1178	127.10	58184	203.00	1486	282.90	419
41.00	566	128.10	6063	204.10	4361	285.10	463
43.20	469	129.10	21688	205.10	7437	285.80	315
44.10	711	130.20	1519	206.10	31728	288.80	212
45.20	185	131.10	580	207.10	5668	289.90	313
47.10	206	133.10	299	208.00	1293	293.10	976
49.10	689	133.80	482	209.70	340	296.00	7758
50.10	9954	135.10	1415	210.00	376	297.00	1228
51.10	48176	136.10	442	210.80	1645	298.00	186
52.20	2939	137.20	1348	211.10	1684	301.10	495
54.90	447	138.10	438	211.60	719	301.90	333
56.00	1186	140.10	283	213.10	172	303.10	1526
57.10	3481	141.10	3523	214.90	259	304.10	389
61.20	442	142.10	763	215.80	563	307.80	278
62.20	700	143.10	301	217.00	9437	309.60	200
63.10	1986	144.10	257	218.00	578	312.80	409
65.20	834	144.80	530	221.10	6862	315.10	434
66.10	174	146.20	260	222.20	1644	316.00	380
67.10	328	147.00	971	223.00	2080	321.00	887
68.10	824	148.00	3554	224.00	20160	323.10	1782
69.00	65312	148.80	1083	225.00	4115	323.90	537
70.00	345	151.20	480	226.00	280	327.10	388
73.00	568	152.60	236	227.00	7300	327.90	403
74.10	5439	153.10	362	228.00	835	328.90	477
75.00	9142	154.00	328	228.90	903	332.00	169
76.10	2759	155.20	1716	230.00	182	333.00	784
77.10	59576	156.00	1862	231.00	414	334.10	1605
78.10	3729	157.10	497	233.30	430	334.90	536
79.10	3937	157.90	479	234.10	296	341.00	273
79.90	2086	159.00	585	235.00	171	346.00	1181
81.00	3673	160.00	449	236.00	323	346.80	206
82.00	859	161.10	1574	237.00	873	352.10	1152
83.10	1248	162.00	414	238.00	187	352.80	421
85.10	1153	163.90	402	239.90	153	353.70	420
86.00	1202	165.00	1447	240.80	839	354.10	366
87.10	1036	166.00	565	241.90	1391	359.20	264
87.90	349	167.00	5205	242.90	482	365.00	3312

91.00	1015	168.00	2639	244.00	13716	365.90	497
92.00	1076	169.10	569	245.10	2740	371.00	207
93.00	6793	171.20	219	246.10	3704	372.00	1504
94.00	304	171.90	600	246.90	708	372.90	380
95.70	390	173.10	529	248.00	229	374.80	236
96.80	152	174.10	1529	249.00	286	381.80	179
98.00	4291	175.10	1926	249.90	212	391.00	462
99.00	4154	176.00	1079	250.90	188	402.00	377
99.90	423	176.90	1598	252.00	444	402.90	734
101.00	2371	177.80	228	252.60	421	412.40	178
102.30	297	179.10	4441	253.00	282	413.20	215
102.90	1015	180.00	3343	253.60	482	421.00	446
104.10	1005	181.00	1970	255.00	69664	421.90	474
105.00	1253	181.80	258	256.00	8887	423.10	4374
105.80	524	183.70	155	257.10	1390	424.10	606
107.00	18280	184.20	620	258.10	2985	425.10	419
108.00	2509	185.00	2608	259.00	766	427.20	214
110.10	31352	186.10	14605	261.10	166	429.20	177
111.00	4483	187.00	5605	264.10	275	432.50	313
112.10	696	188.20	311	264.90	1503	437.90	243
113.00	375	189.00	889	265.60	203	441.10	12950
115.10	171	191.10	803	268.60	332	442.00	81760
116.10	700	192.00	1374	269.70	252	443.10	15965
117.10	12989	193.10	2052	271.00	258	444.00	2018
118.10	801	194.10	269	272.00	403	500.50	168
119.80	334	195.00	197	273.00	2301		
121.10	305	196.00	5578	274.00	5740		
122.00	794	196.90	1224	275.00	26288		
123.10	1846	198.00	131840	276.00	4193		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87447-1
SDG No.: 68087447-1
Client Sample ID:
Lab Sample ID: MB 660-134620/1-A
Matrix: Solid
Lab File ID: 1CB20005.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/19/2013 11:06
Sample wt/vol: 15.45(g)
Date Analyzed: 02/20/2013 14:57
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.: 134694
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.0
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.7	U	8.7	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20005.D
Lab Smp Id: mb 660-134620/1-a
Inj Date : 20-FEB-2013 14:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134620/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.450	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

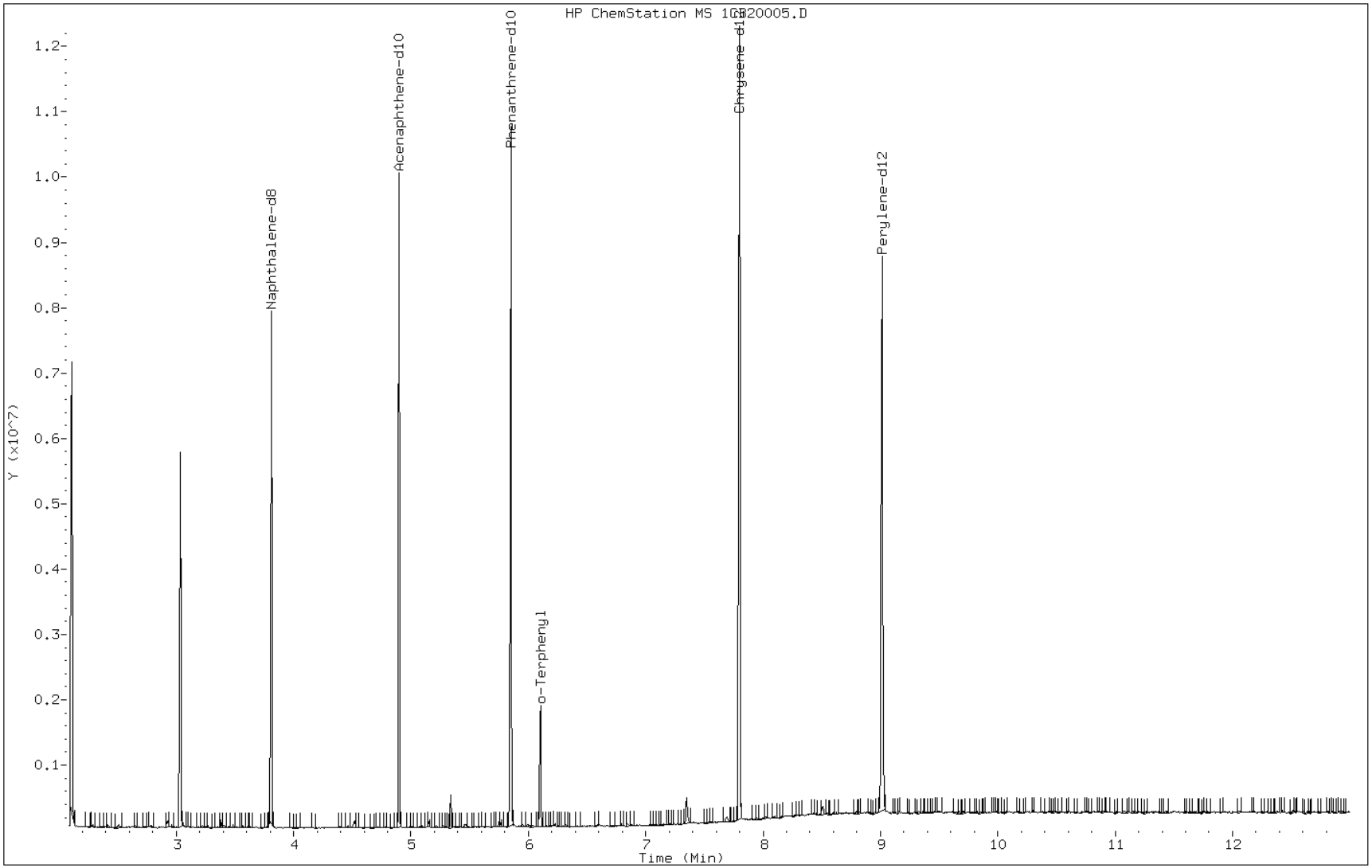
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	1782536	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1348359	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2514028	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	280173	7.60590	492.2915
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3123278	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3302757	40.0000	

Data File: 1CB20005.D

Date: 20-FEB-2013 14:57

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134620/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87447-1
SDG No.: 68087447-1
Client Sample ID:
Lab Sample ID: MB 660-134632/1-A
Matrix: Solid
Lab File ID: 1CB20029.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/19/2013 14:49
Sample wt/vol: 15.04(g)
Date Analyzed: 02/20/2013 22:15
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.: 134694
Units: ug/Kg

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20029.D
Lab Smp Id: mb 660-134632/1-a
Inj Date : 20-FEB-2013 22:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134632/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 29 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

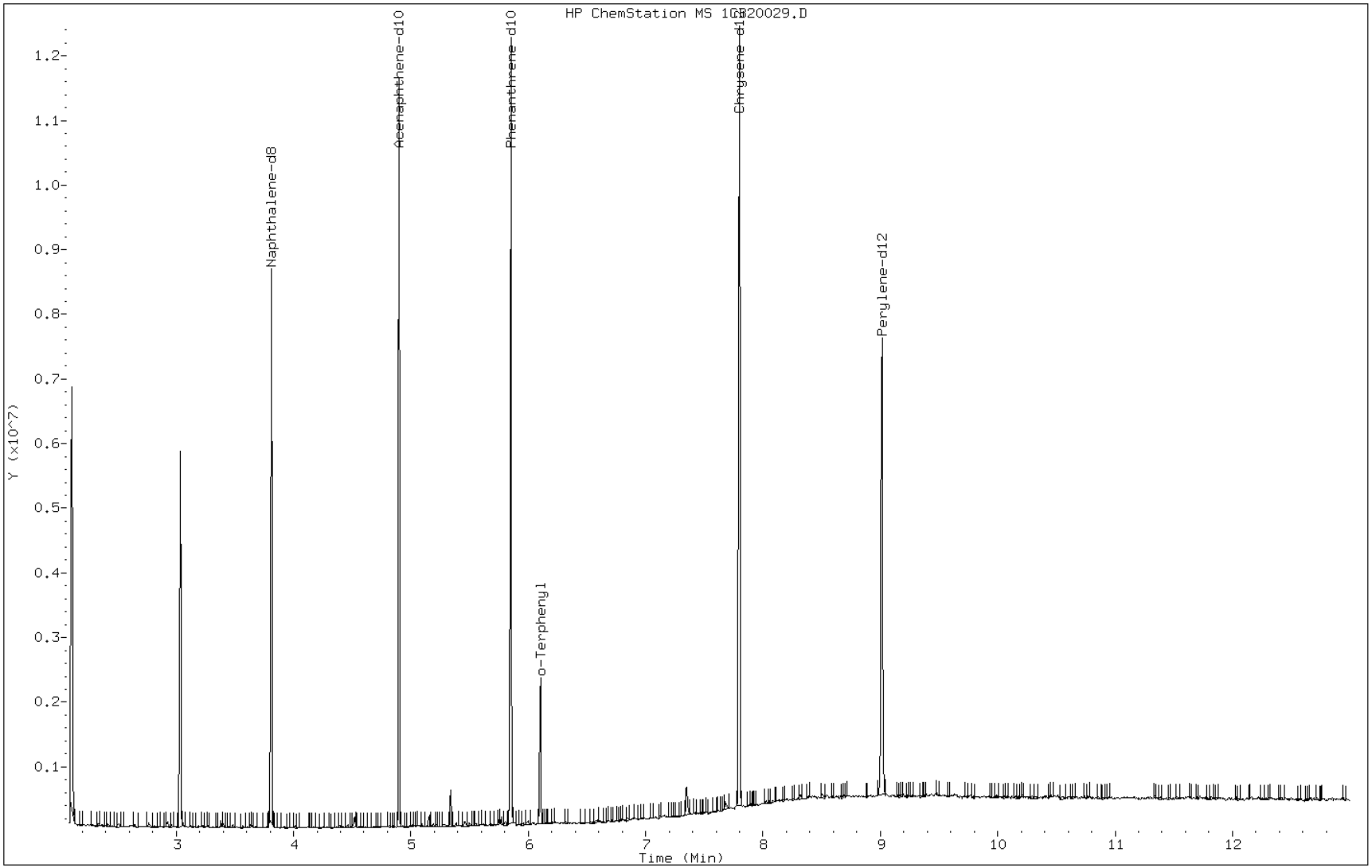
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	1981200	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1574367	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2883189	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	337056	7.97854	530.4882
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3200876	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2983349	40.0000	

Data File: 1CB20029.D

Date: 20-FEB-2013 22:15

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134632/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87447-1
SDG No.: 68087447-1
Client Sample ID:
Lab Sample ID: LCS 660-134620/2-A
Matrix: Solid
Lab File ID: 1CB20006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/19/2013 11:06
Sample wt/vol: 15.05(g)
Date Analyzed: 02/20/2013 15:15
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.: 134694
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480		100	20
208-96-8	Acenaphthylene	467		40	5.0
120-12-7	Anthracene	491		8.4	4.2
56-55-3	Benzo[a]anthracene	479		8.0	3.9
50-32-8	Benzo[a]pyrene	463		10	5.2
205-99-2	Benzo[b]fluoranthene	474		12	6.1
191-24-2	Benzo[g,h,i]perylene	512		20	4.4
207-08-9	Benzo[k]fluoranthene	477		8.0	3.6
218-01-9	Chrysene	439		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	481		20	4.1
206-44-0	Fluoranthene	520		20	4.0
86-73-7	Fluorene	452		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	458		20	7.1
90-12-0	1-Methylnaphthalene	510		40	4.4
91-57-6	2-Methylnaphthalene	467		40	7.1
91-20-3	Naphthalene	444		40	4.4
85-01-8	Phenanthrene	429		8.0	3.9
129-00-0	Pyrene	488		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20006.D
Lab Smp Id: lcs 660-134620/2-a
Inj Date : 20-FEB-2013 15:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134620/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	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/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	1722896	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1345288	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2516616	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	261266	7.08534	470.7866
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3090200	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3235584	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	305270	6.68653	444.2874
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	208847	7.03528	467.4607
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	207229	7.67552	510.0013
5 Acenaphthylene	152	4.810	4.810	(0.982)	376143	7.02792	466.9715
7 Acenaphthene	154	4.915	4.922	(1.004)	242275	7.21749	479.5672
9 Fluorene	166	5.239	5.239	(1.070)	293133	6.80290	452.0199
11 Phenanthrene	178	5.868	5.869	(1.003)	484767	6.45330	428.7904
12 Anthracene	178	5.898	5.904	(1.008)	499799	7.38472	490.6793

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.004	6.010	(1.026)	448732	7.63301	507.1767
15 Fluoranthene	202	6.704	6.710	(1.146)	574510	7.82690	520.0598
16 Pyrene	202	6.874	6.880	(0.882)	603650	7.33754	487.5444
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	614082	7.20614	478.8130
19 Chrysene	228	7.815	7.827	(1.002)	581726	6.60871	439.1168
20 Benzo(b)fluoranthene	252	8.650	8.662	(0.960)	565398	7.12753	473.5898
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	627429	7.17957	477.0476
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	526213	6.97127	463.2072
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	499762	6.89328	458.0250(M)
25 Dibenzo(a,h)anthracene	278	10.244	10.262	(1.136)	495433	7.24649	481.4942
26 Benzo(g,h,i)perylene	276	10.597	10.615	(1.176)	567674	7.70820	512.1729

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB20006.D

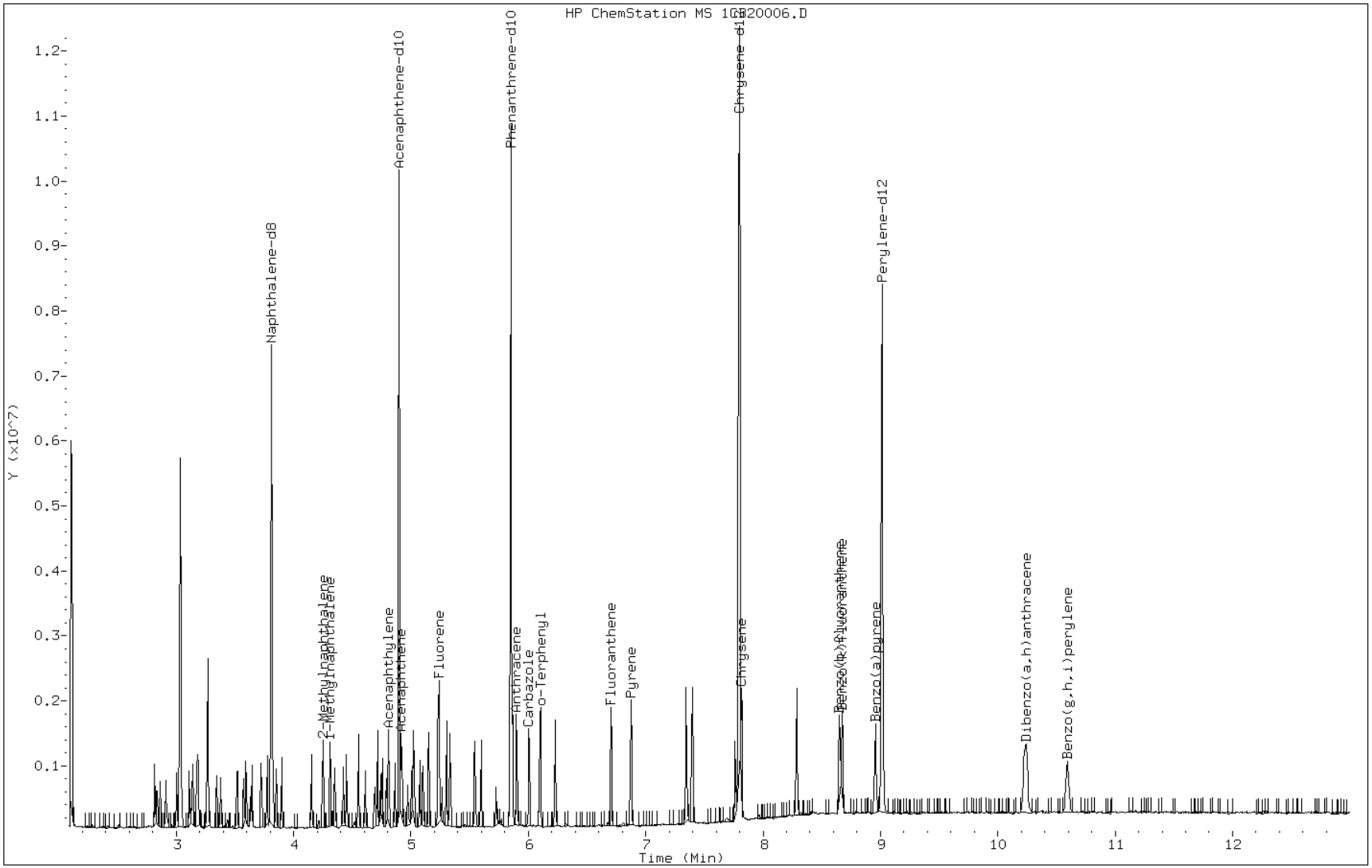
Date: 20-FEB-2013 15:15

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-134620/2-a

Operator: SCC



Manual Integration Report

Data File: 1CB20006.D
Inj. Date and Time: 20-FEB-2013 15:15
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

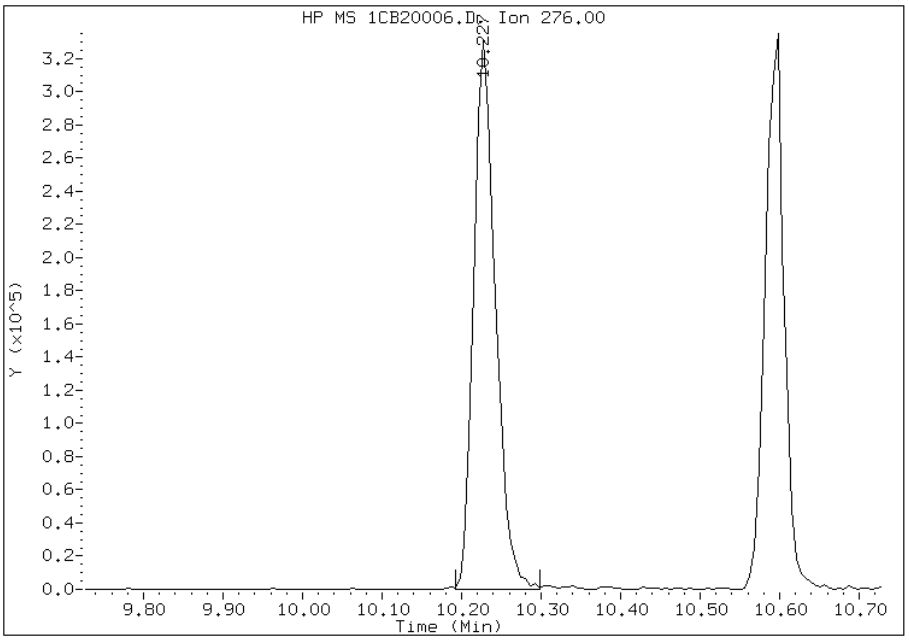
Processing Integration Results

RT: 10.23

Response: 623482

Amount: 9

Conc: 571



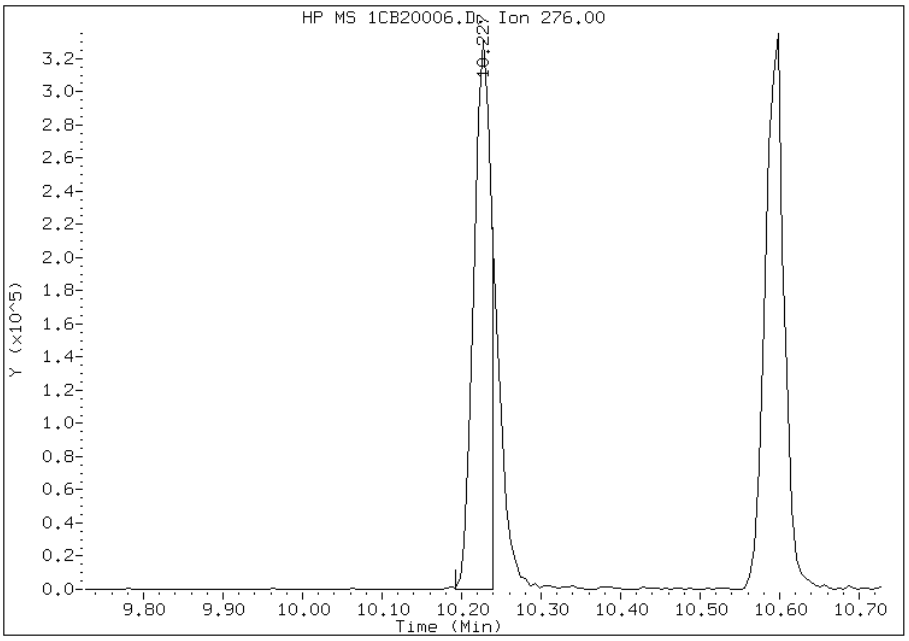
Manual Integration Results

RT: 10.23

Response: 499762

Amount: 7

Conc: 458



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87447-1
SDG No.: 68087447-1
Client Sample ID:
Lab Sample ID: LCS 660-134632/2-A
Matrix: Solid
Lab File ID: 1CB20030.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/19/2013 14:49
Sample wt/vol: 15.14(g)
Date Analyzed: 02/20/2013 22:33
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134694
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	383		99	20
208-96-8	Acenaphthylene	437		40	5.0
120-12-7	Anthracene	431		8.3	4.2
56-55-3	Benzo[a]anthracene	451		7.9	3.9
50-32-8	Benzo[a]pyrene	436		10	5.2
205-99-2	Benzo[b]fluoranthene	450		12	6.0
191-24-2	Benzo[g,h,i]perylene	409		20	4.4
207-08-9	Benzo[k]fluoranthene	429		7.9	3.6
218-01-9	Chrysene	401		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	392		20	4.1
206-44-0	Fluoranthene	452		20	4.0
86-73-7	Fluorene	410		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	401		20	7.0
90-12-0	1-Methylnaphthalene	435		40	4.4
91-57-6	2-Methylnaphthalene	419		40	7.0
91-20-3	Naphthalene	392		40	4.4
85-01-8	Phenanthrene	378		7.9	3.9
129-00-0	Pyrene	474		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20030.D
Lab Smp Id: lcs 660-134632/2-a
Inj Date : 20-FEB-2013 22:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134632/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 30 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2237861	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1761317	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3296958	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	307271	6.36067	420.1234
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3554905	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3312150	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	352075	5.93714	392.1495
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	244471	6.34025	418.7750
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	231159	6.59165	435.3797
5 Acenaphthylene	152	4.810	4.810	(0.982)	463535	6.61507	436.9264
7 Acenaphthene	154	4.916	4.922	(1.004)	254807	5.79784	382.9487
9 Fluorene	166	5.239	5.239	(1.070)	350182	6.20727	409.9917
11 Phenanthrene	178	5.869	5.869	(1.003)	562829	5.71911	377.7484
12 Anthracene	178	5.898	5.904	(1.008)	579028	6.53043	431.3364

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.004	6.010	(1.026)	531922	6.90654	456.1780
15 Fluoranthene	202	6.704	6.710	(1.146)	658258	6.84529	452.1328
16 Pyrene	202	6.874	6.880	(0.882)	679475	7.17956	474.2111
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	668798	6.82228	450.6130
19 Chrysene	228	7.815	7.827	(1.002)	615021	6.07361	401.1629
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	553213	6.81271	449.9806
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	580791	6.49226	428.8153
22 Benzo(a)pyrene	252	8.957	8.968	(0.993)	510025	6.60061	435.9719
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	450722	6.07315	401.1327(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	415867	5.94210	392.4767
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	467126	6.19628	409.2653

QC Flag Legend

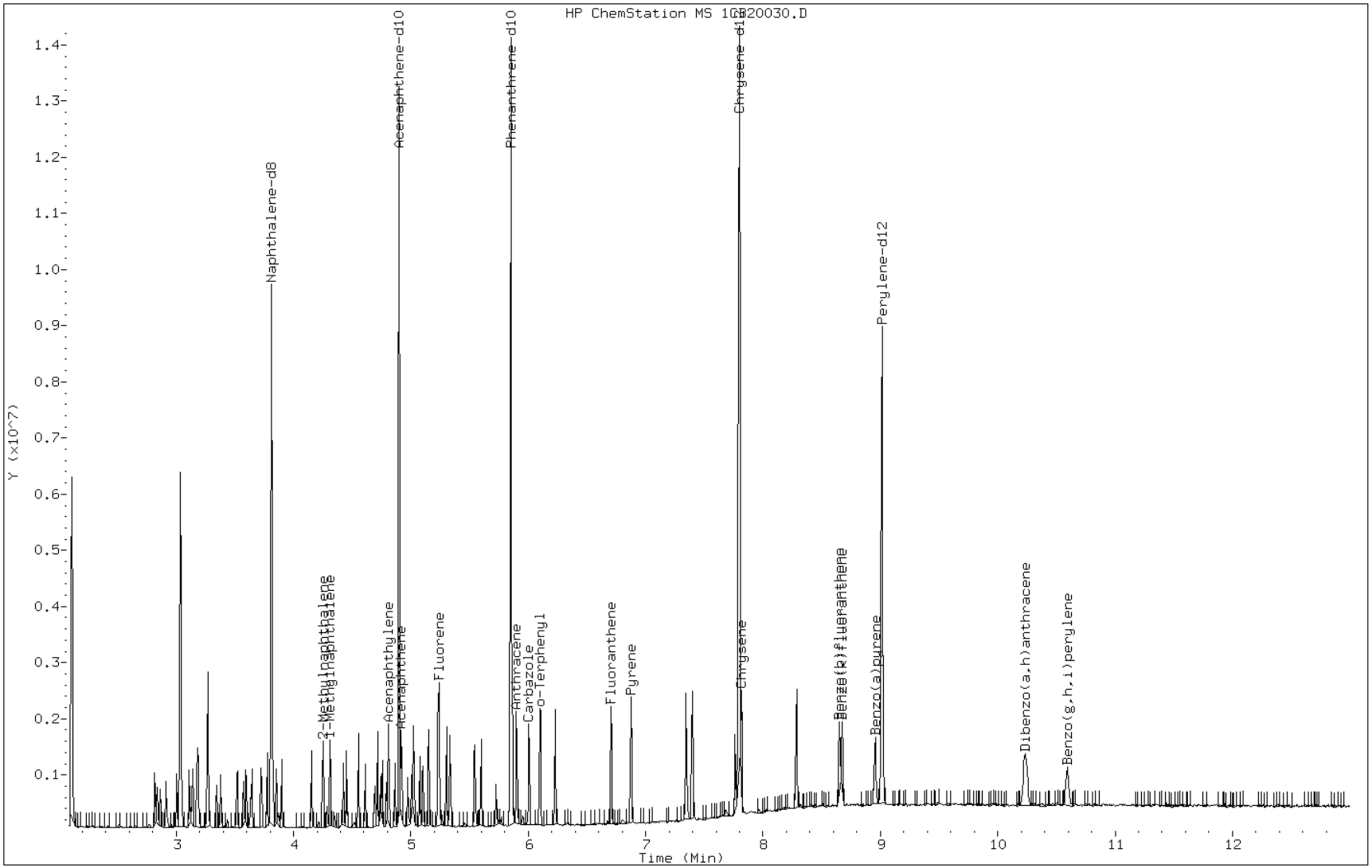
M - Compound response manually integrated.

Data File: 1CB20030.D

Date: 20-FEB-2013 22:33

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-134632/2-a Operator: SCC



Manual Integration Report

Data File: 1CB20030.D
Inj. Date and Time: 20-FEB-2013 22:33
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

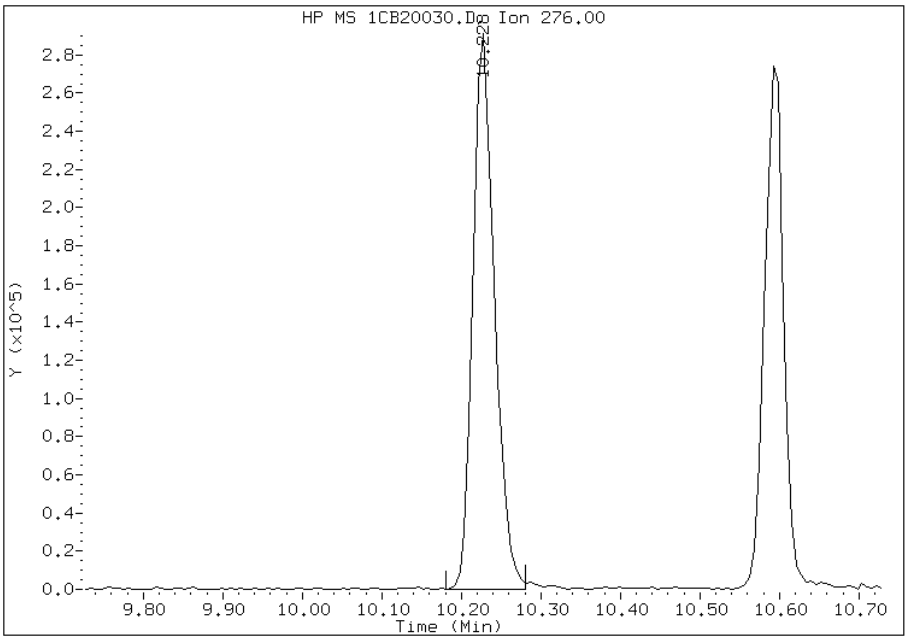
Processing Integration Results

RT: 10.23

Response: 544295

Amount: 7

Conc: 484



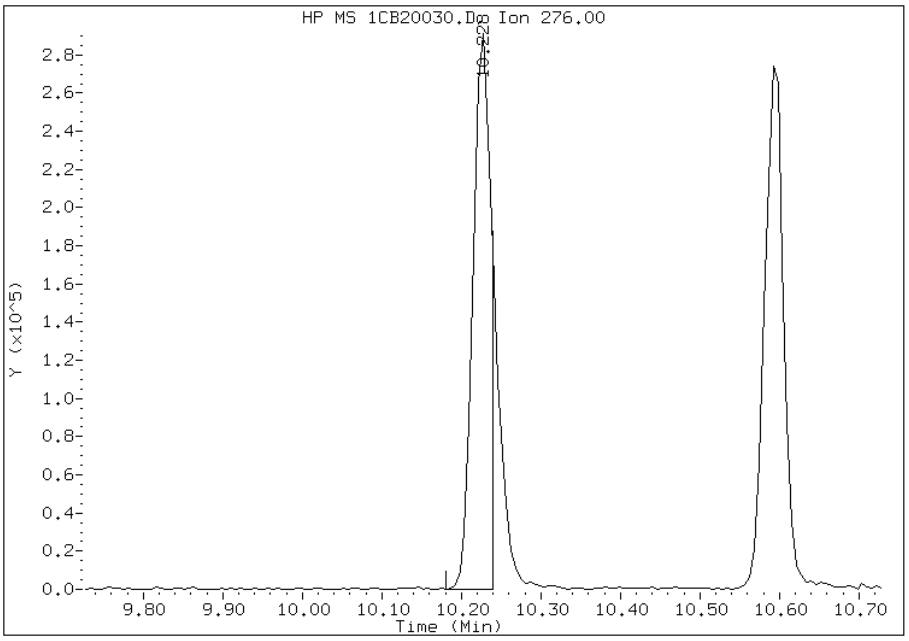
Manual Integration Results

RT: 10.23

Response: 450722

Amount: 6

Conc: 401



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 11:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87447-1
SDG No.: 68087447-1
Client Sample ID:
Lab Sample ID: 680-87447-A-24-B MS
Matrix: Solid
Lab File ID: 1CB20040.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/19/2013 14:49
Sample wt/vol: 15.16(g)
Date Analyzed: 02/21/2013 01:36
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 36.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134694
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	732		150	31
208-96-8	Acenaphthylene	776		62	7.7
120-12-7	Anthracene	833		13	6.5
56-55-3	Benzo[a]anthracene	997		12	6.0
50-32-8	Benzo[a]pyrene	955		16	8.0
205-99-2	Benzo[b]fluoranthene	1210		19	9.4
191-24-2	Benzo[g,h,i]perylene	855		31	6.8
207-08-9	Benzo[k]fluoranthene	820		12	5.6
218-01-9	Chrysene	945		14	7.0
53-70-3	Dibenz(a,h)anthracene	765		31	6.3
206-44-0	Fluoranthene	1220		31	6.2
86-73-7	Fluorene	732		31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	784		31	11
90-12-0	1-Methylnaphthalene	841		62	6.8
91-57-6	2-Methylnaphthalene	826		62	11
91-20-3	Naphthalene	790		62	6.8
85-01-8	Phenanthrene	889		12	6.0
129-00-0	Pyrene	1230		31	5.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20040.D
Lab Smp Id: 680-87447-a-24-b ms
Inj Date : 21-FEB-2013 01:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-24-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 40 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	15.160	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2297754	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1777251	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3210586	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	356344	7.57495	499.6669
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3343221	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3179855	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	466755	7.66586	505.6636
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	317271	8.01381	528.6157
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	293655	8.15549	537.9613
5 Acenaphthylene	152	4.810	4.810	(0.982)	532486	7.53093	496.7632
7 Acenaphthene	154	4.916	4.922	(1.004)	315003	7.10327	468.5537
9 Fluorene	166	5.239	5.239	(1.070)	404194	7.10045	468.3673
11 Phenanthrene	178	5.868	5.869	(1.003)	826250	8.62170	568.7134
12 Anthracene	178	5.898	5.904	(1.008)	697573	8.07907	532.9199

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.010	(1.027)	578857	7.71814	509.1122
15 Fluoranthene	202	6.710	6.710	(1.147)	1108709	11.8397	780.9860
16 Pyrene	202	6.874	6.880	(0.882)	1066218	11.9793	790.1942
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	892043	9.67572	638.2402
19 Chrysene	228	7.815	7.827	(1.002)	872911	9.16621	604.6310
20 Benzo(b)fluoranthene	252	8.657	8.662	(0.960)	916752	11.7593	775.6801
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	683631	7.95977	525.0510
22 Benzo(a)pyrene	252	8.957	8.968	(0.993)	686946	9.26015	610.8281
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.245	(1.135)	541589	7.60112	501.3932(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	498969	7.42611	489.8491
26 Benzo(g,h,i)perylene	276	10.598	10.615	(1.175)	600377	8.29514	547.1726

QC Flag Legend

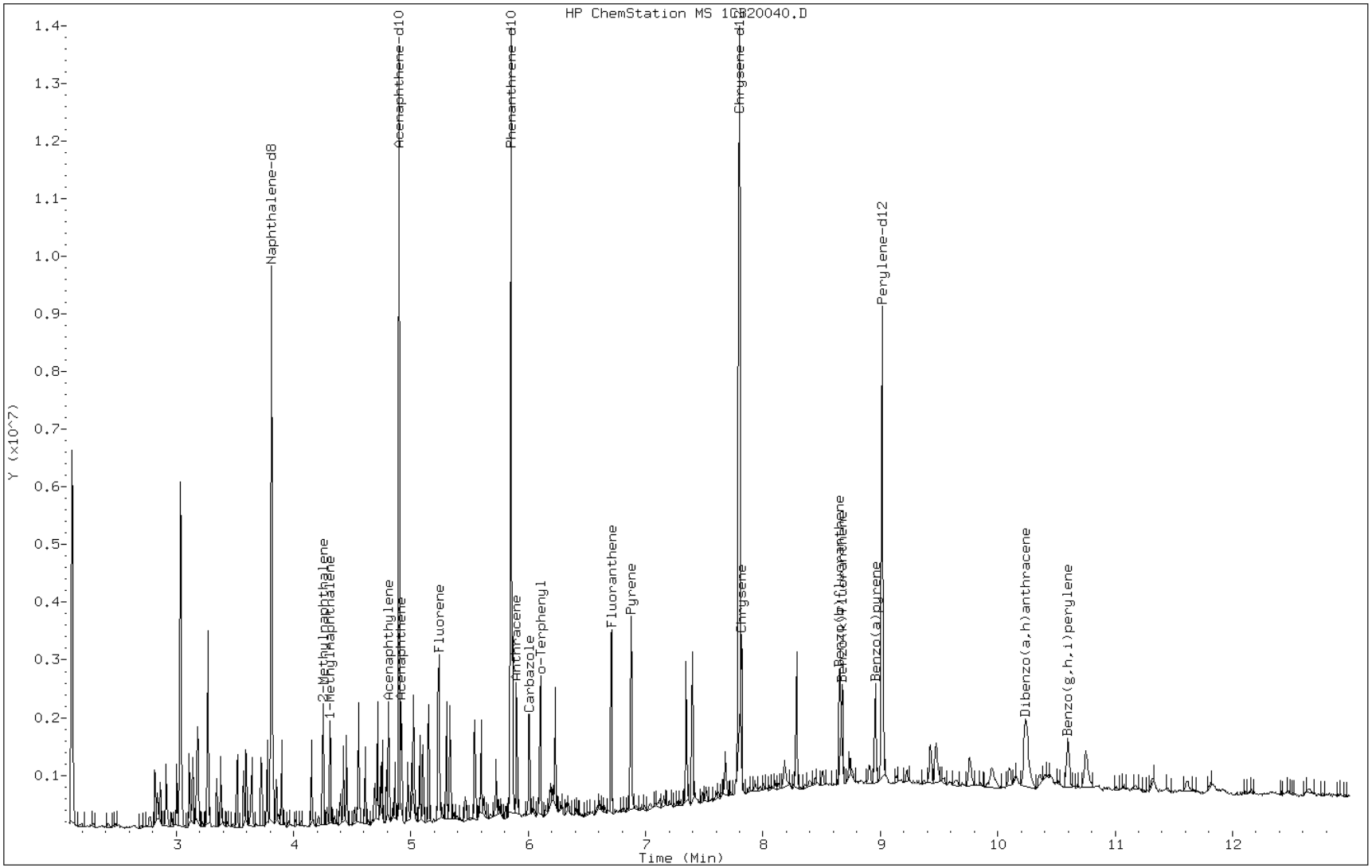
M - Compound response manually integrated.

Data File: 1CB20040.D

Date: 21-FEB-2013 01:36

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87447-a-24-b ms Operator: SCC



Manual Integration Report

Data File: 1CB20040.D
Inj. Date and Time: 21-FEB-2013 01:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

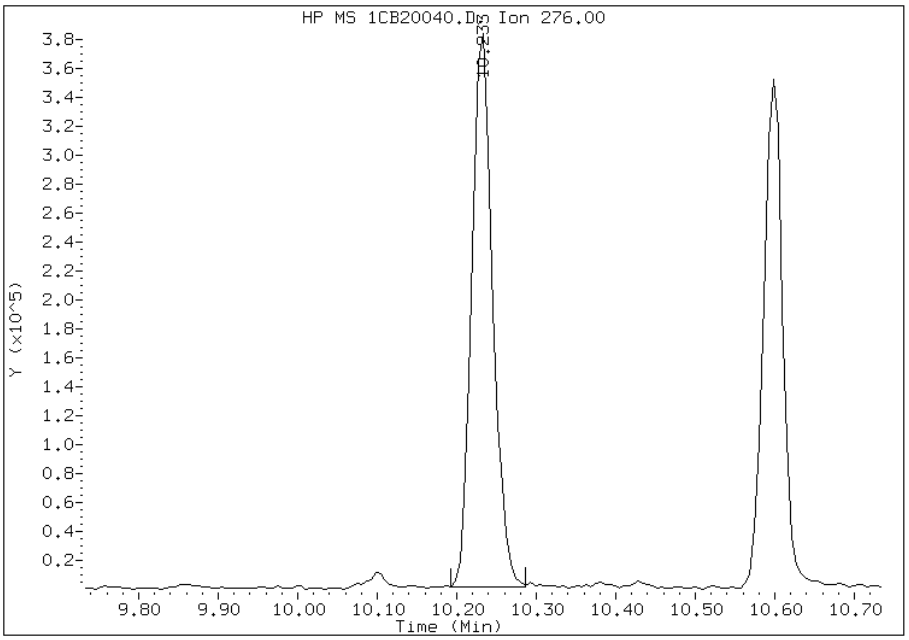
Processing Integration Results

RT: 10.23

Response: 695231

Amount: 10

Conc: 644



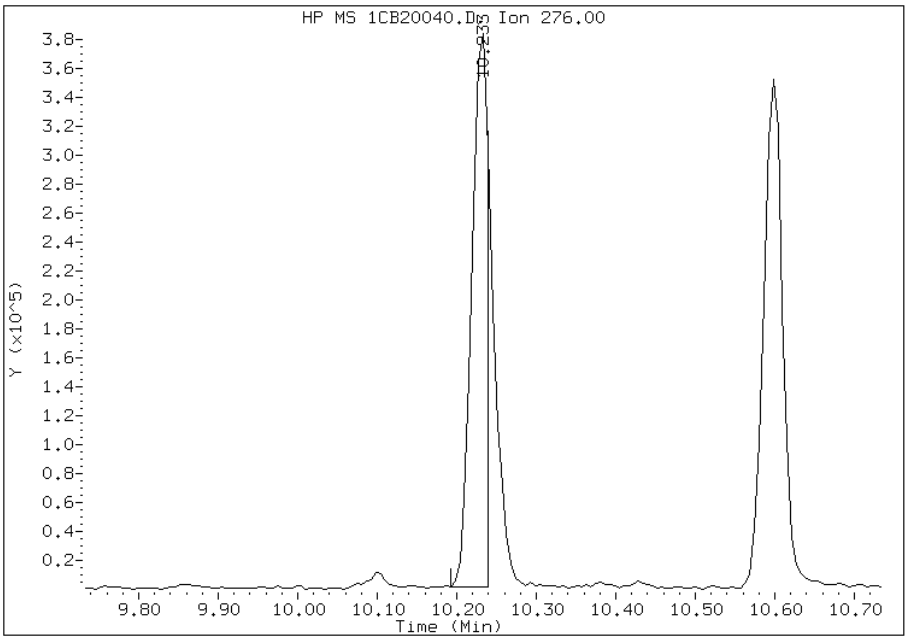
Manual Integration Results

RT: 10.23

Response: 541589

Amount: 8

Conc: 501



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 12:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971A-CS MS | Lab Sample ID: 680-87447-2 MS

Matrix: Solid | Lab File ID: 1CB20014.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 08:45

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.14(g) | Date Analyzed: 02/20/2013 17:41

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

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

% Moisture: 45.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	971		720	140
208-96-8	Acenaphthylene	1080		290	36
120-12-7	Anthracene	977		61	30
56-55-3	Benzo[a]anthracene	1160		58	28
50-32-8	Benzo[a]pyrene	1100		75	37
205-99-2	Benzo[b]fluoranthene	1200		88	44
191-24-2	Benzo[g,h,i]perylene	1070		140	32
207-08-9	Benzo[k]fluoranthene	1110		58	26
218-01-9	Chrysene	1040		65	32
53-70-3	Dibenz(a,h)anthracene	1030		140	30
206-44-0	Fluoranthene	1180		140	29
86-73-7	Fluorene	1000		140	30
193-39-5	Indeno[1,2,3-cd]pyrene	887		140	51
90-12-0	1-Methylnaphthalene	1120		290	32
91-57-6	2-Methylnaphthalene	1060		290	51
91-20-3	Naphthalene	1010		290	32
85-01-8	Phenanthrene	979		58	28
129-00-0	Pyrene	1290		140	27

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20014.D
Lab Smp Id: 680-87447-a-2-b ms
Inj Date : 20-FEB-2013 17:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-2-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 14 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	1994943	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1529771	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2810401	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	84838	2.06024	544.3157
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	2952562	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2831377	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	111214	2.10380	555.8256
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	76147	2.21531	585.2870
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	72606	2.32251	613.6101
5 Acenaphthylene	152	4.810	4.810	(0.982)	136511	2.24301	592.6040
7 Acenaphthene	154	4.916	4.922	(1.004)	77100	2.01986	533.6478
9 Fluorene	166	5.239	5.239	(1.070)	102011	2.08193	550.0464
11 Phenanthrene	178	5.869	5.869	(1.003)	170808	2.03613	537.9470
12 Anthracene	178	5.898	5.904	(1.008)	153693	2.03349	537.2491

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.004	6.010	(1.026)	149479	2.27687	601.5500
15 Fluoranthene	202	6.704	6.710	(1.146)	200776	2.44936	647.1230
16 Pyrene	202	6.874	6.880	(0.882)	210190	2.67402	706.4790
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	197160	2.42149	639.7593
19 Chrysene	228	7.815	7.827	(1.002)	182206	2.16645	572.3774
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	172865	2.49027	657.9316
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	176990	2.31439	611.4648
22 Benzo(a)pyrene	252	8.957	8.968	(0.993)	151238	2.28963	604.9232
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	117067	1.84524	487.5128(M)
25 Dibenzo(a,h)anthracene	278	10.239	10.262	(1.136)	128048	2.14028	565.4634
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	143057	2.21982	586.4788

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB20014.D

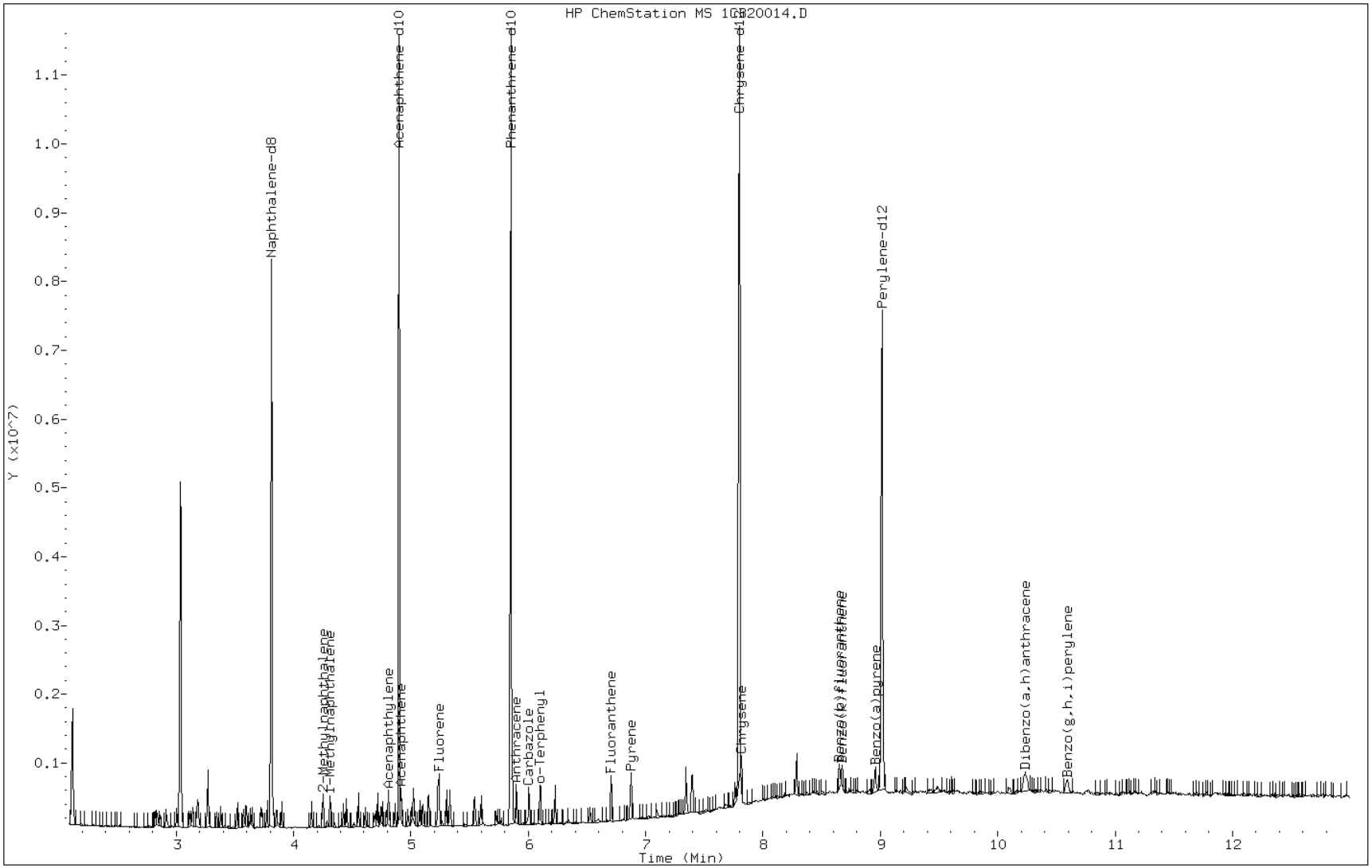
Date: 20-FEB-2013 17:41

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-b ms

Operator: SCC



Manual Integration Report

Data File: 1CB20014.D
Inj. Date and Time: 20-FEB-2013 17:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

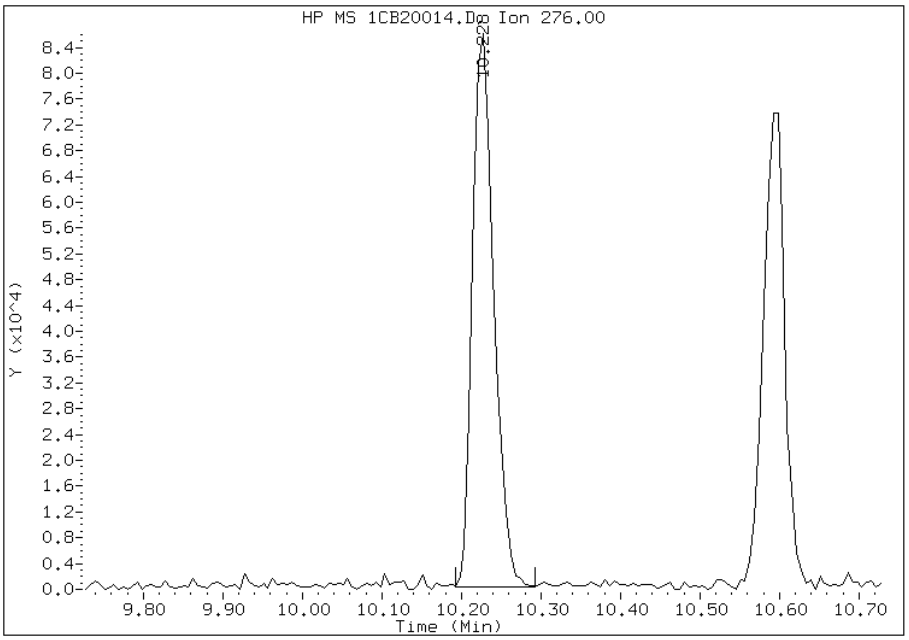
Processing Integration Results

RT: 10.23

Response: 158996

Amount: 3

Conc: 662



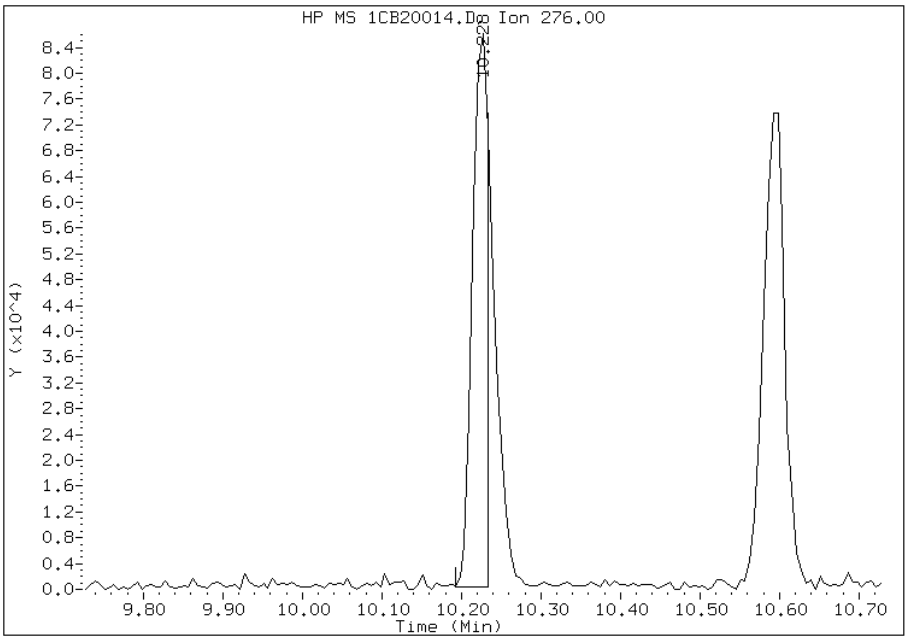
Manual Integration Results

RT: 10.23

Response: 117067

Amount: 2

Conc: 488



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 09:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87447-1
SDG No.: 68087447-1
Client Sample ID:
Lab Sample ID: 680-87447-A-24-C MSD
Matrix: Solid
Lab File ID: 1CB20041.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/19/2013 14:49
Sample wt/vol: 15.22(g)
Date Analyzed: 02/21/2013 01:55
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 36.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134694
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	731		150	31
208-96-8	Acenaphthylene	835		62	7.7
120-12-7	Anthracene	827		13	6.5
56-55-3	Benzo[a]anthracene	1060		12	6.0
50-32-8	Benzo[a]pyrene	1060		16	8.0
205-99-2	Benzo[b]fluoranthene	1180		19	9.4
191-24-2	Benzo[g,h,i]perylene	917		31	6.8
207-08-9	Benzo[k]fluoranthene	1080		12	5.5
218-01-9	Chrysene	1000		14	6.9
53-70-3	Dibenz(a,h)anthracene	773		31	6.3
206-44-0	Fluoranthene	1280		31	6.2
86-73-7	Fluorene	758		31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	913		31	11
90-12-0	1-Methylnaphthalene	908		62	6.8
91-57-6	2-Methylnaphthalene	851		62	11
91-20-3	Naphthalene	800		62	6.8
85-01-8	Phenanthrene	919		12	6.0
129-00-0	Pyrene	1350		31	5.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20041.D
Lab Smp Id: 680-87447-a-24-c ms
Inj Date : 21-FEB-2013 01:55
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-24-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 41 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.220	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2436718	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1863559	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3385204	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	382090	7.70328	506.1285
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3497154	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3316945	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	503077	7.79121	511.9058
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	348078	8.29056	544.7147
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	337520	8.83915	580.7590
5 Acenaphthylene	152	4.810	4.810	(0.982)	602827	8.13090	534.2249
7 Acenaphthene	154	4.916	4.922	(1.004)	330918	7.11656	467.5792
9 Fluorene	166	5.239	5.239	(1.070)	440386	7.37794	484.7528
11 Phenanthrene	178	5.868	5.869	(1.003)	903976	8.94618	587.7909
12 Anthracene	178	5.898	5.904	(1.008)	733107	8.05264	529.0828

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.004	6.010	(1.026)	647805	8.19191	538.2332
15 Fluoranthene	202	6.710	6.710	(1.147)	1232863	12.4865	820.3979
16 Pyrene	202	6.874	6.880	(0.882)	1220650	13.1108	861.4178(R)
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	992281	10.2892	676.0331
19 Chrysene	228	7.815	7.827	(1.002)	970062	9.73799	639.8156
20 Benzo(b)fluoranthene	252	8.656	8.662	(0.960)	931528	11.4550	752.6278
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	941942	10.5141	690.8083
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	799005	10.3256	678.4213
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.245	(1.135)	661069	8.89454	584.3984(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.262	(1.137)	527766	7.53006	494.7477
26 Benzo(g,h,i)perylene	276	10.598	10.615	(1.175)	674036	8.92795	586.5931

QC Flag Legend

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

Data File: 1CB20041.D

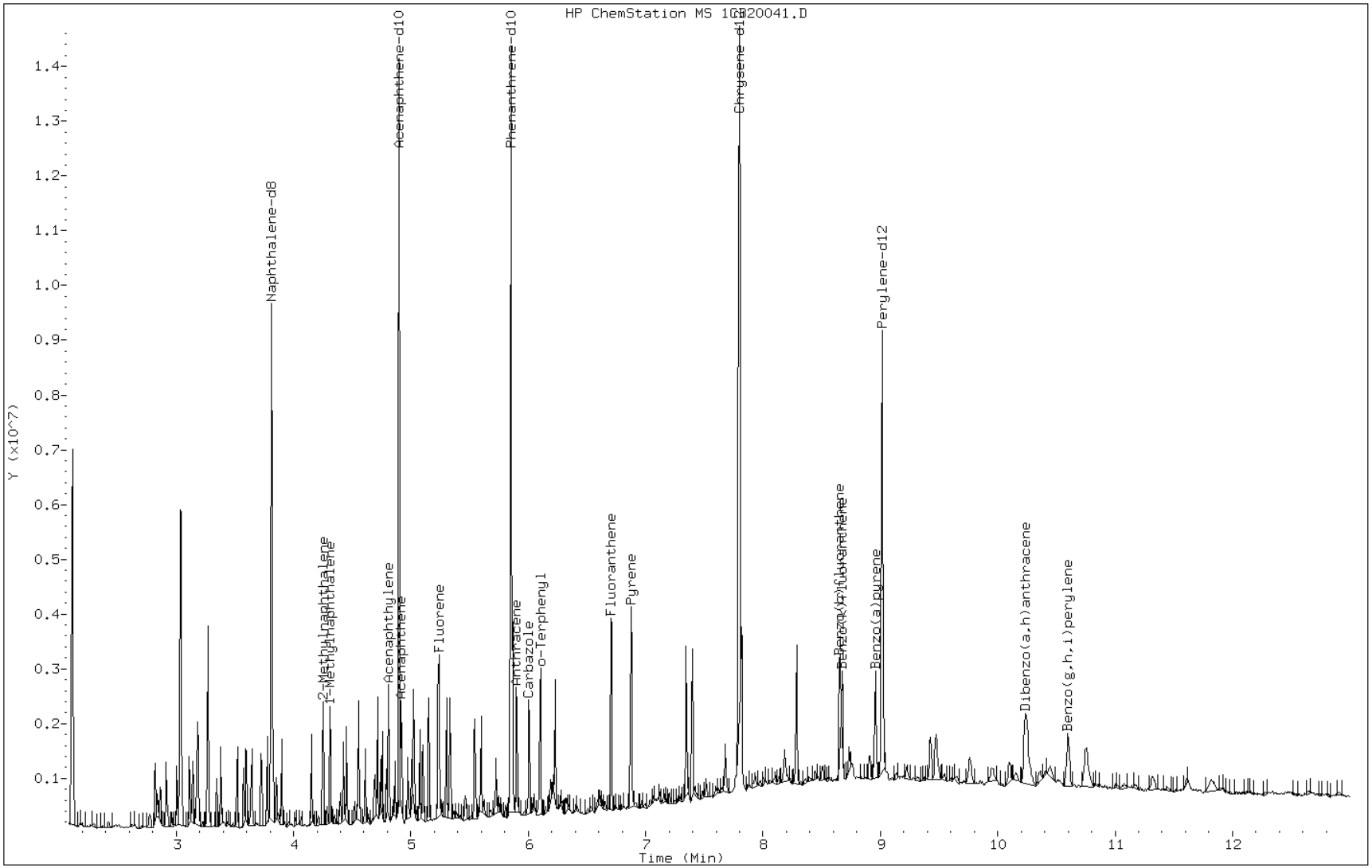
Date: 21-FEB-2013 01:55

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-87447-a-24-c msd

Operator: SCC



Manual Integration Report

Data File: 1CB20041.D
Inj. Date and Time: 21-FEB-2013 01:55
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

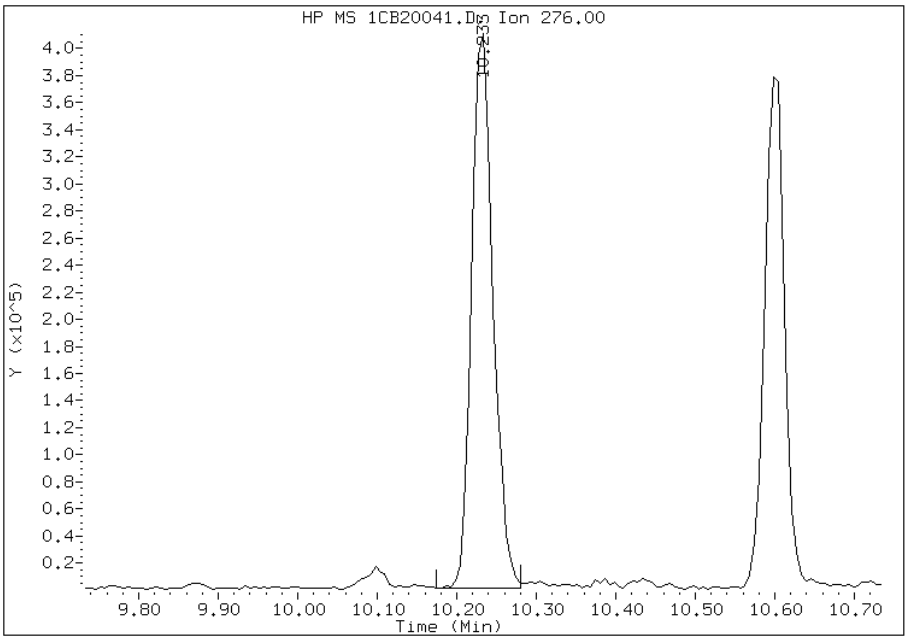
Processing Integration Results

RT: 10.23

Response: 764156

Amount: 10

Conc: 676



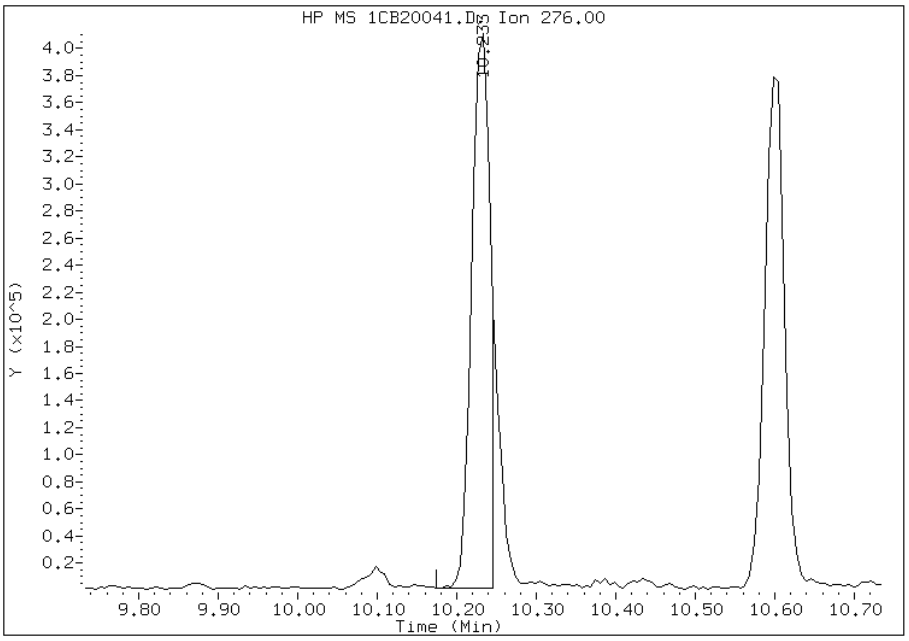
Manual Integration Results

RT: 10.23

Response: 661069

Amount: 9

Conc: 584



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 13:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87447-1

SDG No.: 68087447-1

Client Sample ID: CV0971A-CS MSD | Lab Sample ID: 680-87447-2 MSD

Matrix: Solid | Lab File ID: 1CB20015.D

Analysis Method: 8270C LL | Date Collected: 02/12/2013 08:45

Extract. Method: 3546 | Date Extracted: 02/19/2013 11:06

Sample wt/vol: 15.14(g) | Date Analyzed: 02/20/2013 17:59

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

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

% Moisture: 45.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134694 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	991		720	140
208-96-8	Acenaphthylene	1050		290	36
120-12-7	Anthracene	1130		61	30
56-55-3	Benzo[a]anthracene	1280		58	28
50-32-8	Benzo[a]pyrene	1190		75	37
205-99-2	Benzo[b]fluoranthene	1330		88	44
191-24-2	Benzo[g,h,i]perylene	1180		140	32
207-08-9	Benzo[k]fluoranthene	1140		58	26
218-01-9	Chrysene	1220		65	32
53-70-3	Dibenz(a,h)anthracene	1070		140	30
206-44-0	Fluoranthene	1470		140	29
86-73-7	Fluorene	976		140	30
193-39-5	Indeno[1,2,3-cd]pyrene	1080		140	51
90-12-0	1-Methylnaphthalene	1130		290	32
91-57-6	2-Methylnaphthalene	1130		290	51
91-20-3	Naphthalene	1130		290	32
85-01-8	Phenanthrene	1220		58	28
129-00-0	Pyrene	1550		140	27

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20015.D
Lab Smp Id: 680-87447-a-2-c msd
Inj Date : 20-FEB-2013 17:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87447-a-2-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\a-bFASTPAHi-m.m
Meth Date : 20-Feb-2013 14:35 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 15 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	1886451	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1507646	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2749034	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	91036	2.26010	597.1203
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	2949677	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2825525	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	117310	2.34674	620.0106
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	76480	2.35296	621.6542
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	69559	2.35301	621.6676
5 Acenaphthylene	152	4.810	4.810	(0.982)	131511	2.19256	579.2767
7 Acenaphthene	154	4.916	4.922	(1.004)	77581	2.06228	544.8573
9 Fluorene	166	5.239	5.239	(1.070)	98070	2.03087	536.5566
11 Phenanthrene	178	5.868	5.869	(1.003)	207831	2.53277	669.1598
12 Anthracene	178	5.898	5.904	(1.008)	174124	2.35524	622.2551

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.010	(1.027)	149162	2.32276	613.6743
15 Fluoranthene	202	6.704	6.710	(1.146)	244699	3.05184	806.2977
16 Pyrene	202	6.874	6.880	(0.882)	253823	3.23228	853.9703
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	215789	2.65288	700.8929
19 Chrysene	228	7.815	7.827	(1.002)	212548	2.52969	668.3461
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	192396	2.77737	733.7841
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	181679	2.38063	628.9643
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	163000	2.47281	653.3193
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	142820	2.25582	595.9903(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	132684	2.22236	587.1496
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	158073	2.45791	649.3808

QC Flag Legend

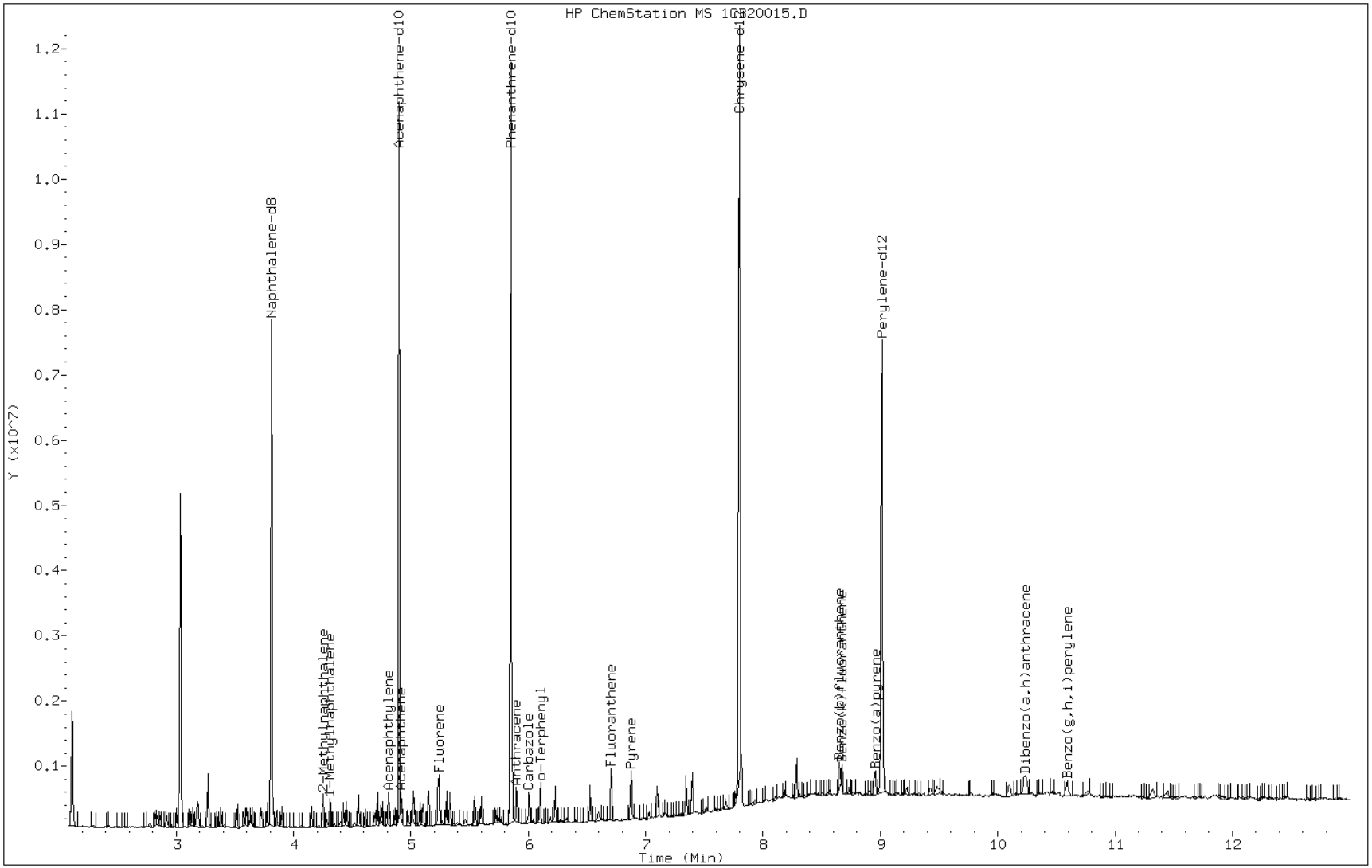
M - Compound response manually integrated.

Data File: 1CB20015.D

Date: 20-FEB-2013 17:59

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87447-a-2-c msd Operator: SCC



Manual Integration Report

Data File: 1CB20015.D
Inj. Date and Time: 20-FEB-2013 17:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

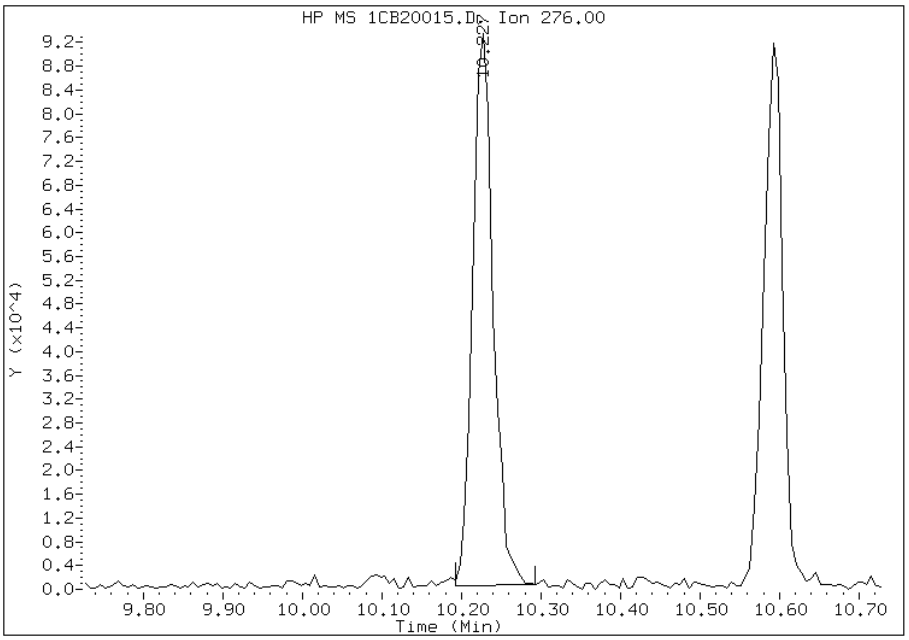
Processing Integration Results

RT: 10.23

Response: 165728

Amount: 3

Conc: 692



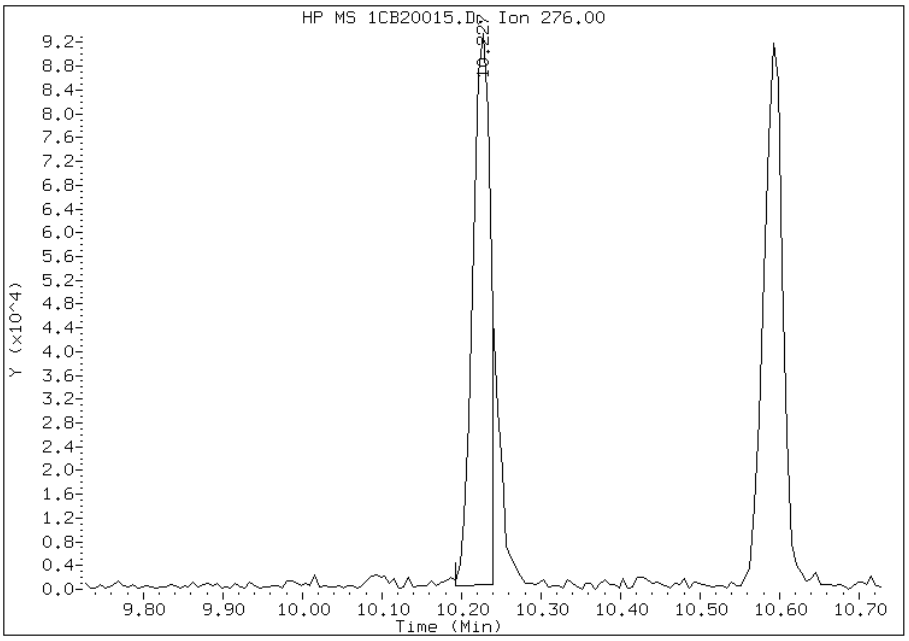
Manual Integration Results

RT: 10.23

Response: 142820

Amount: 2

Conc: 596



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 09:35
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: BSMC5973 Start Date: 01/07/2013 10:42

Analysis Batch Number: 133227 End Date: 01/07/2013 17:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/07/2013 10:42	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 11:03	1		DB-5MS 250(um)
DFTPP 660-133227/1		01/07/2013 11:23	1	1CA07002.D	DB-5MS 250(um)
IC 660-133227/13		01/07/2013 11:50	1		DB-5MS 250(um)
IC 660-133227/14		01/07/2013 12:11	1		DB-5MS 250(um)
IC 660-133227/15		01/07/2013 12:32	1		DB-5MS 250(um)
IC 660-133227/16		01/07/2013 12:52	1		DB-5MS 250(um)
ICIS 660-133227/17		01/07/2013 13:13	1		DB-5MS 250(um)
IC 660-133227/18		01/07/2013 13:34	1		DB-5MS 250(um)
IC 660-133227/19		01/07/2013 14:03	1		DB-5MS 250(um)
IC 660-133227/20		01/07/2013 14:24	1		DB-5MS 250(um)
ICV 660-133227/21		01/07/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 15:04	1		DB-5MS 250(um)
IC 660-133227/3		01/07/2013 15:23	1	1CA07013.D	DB-5MS 250(um)
IC 660-133227/4		01/07/2013 15:41	1	1CA07014.D	DB-5MS 250(um)
IC 660-133227/5		01/07/2013 15:59	1	1CA07015.D	DB-5MS 250(um)
IC 660-133227/6		01/07/2013 16:18	1	1CA07016.D	DB-5MS 250(um)
ICIS 660-133227/7		01/07/2013 16:36	1	1CA07017.D	DB-5MS 250(um)
IC 660-133227/8		01/07/2013 16:54	1	1CA07018.D	DB-5MS 250(um)
IC 660-133227/9		01/07/2013 17:13	1	1CA07019.D	DB-5MS 250(um)
ICV 660-133227/10		01/07/2013 17:31	1	1CA07020.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: BSMC5973 Start Date: 02/20/2013 13:22

Analysis Batch Number: 134694 End Date: 02/21/2013 01:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/20/2013 13:22	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 13:40	1		DB-5MS 250(um)
DFTPP 660-134694/2		02/20/2013 13:59	1	1CB20002.D	DB-5MS 250(um)
CCVIS 660-134694/3		02/20/2013 14:21	1	1CB20003.D	DB-5MS 250(um)
ZZZZZ		02/20/2013 14:39	1		DB-5MS 250(um)
MB 660-134620/1-A		02/20/2013 14:57	1	1CB20005.D	DB-5MS 250(um)
LCS 660-134620/2-A		02/20/2013 15:15	1	1CB20006.D	DB-5MS 250(um)
ZZZZZ		02/20/2013 15:34	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 15:52	4		DB-5MS 250(um)
ZZZZZ		02/20/2013 16:10	4		DB-5MS 250(um)
ZZZZZ		02/20/2013 16:28	4		DB-5MS 250(um)
ZZZZZ		02/20/2013 16:46	4		DB-5MS 250(um)
680-87447-1	CV0971AB-GS	02/20/2013 17:05	4	1CB20012.D	DB-5MS 250(um)
680-87447-2	CV0971A-CS	02/20/2013 17:23	4	1CB20013.D	DB-5MS 250(um)
680-87447-2 MS	CV0971A-CS MS	02/20/2013 17:41	4	1CB20014.D	DB-5MS 250(um)
680-87447-2 MSD	CV0971A-CS MSD	02/20/2013 17:59	4	1CB20015.D	DB-5MS 250(um)
680-87447-3	CV0971B-CS	02/20/2013 18:18	4	1CB20016.D	DB-5MS 250(um)
680-87447-4	CV0971C-CS	02/20/2013 18:36	1	1CB20017.D	DB-5MS 250(um)
680-87447-5	CV0971D-CS	02/20/2013 18:54	1	1CB20018.D	DB-5MS 250(um)
680-87447-6	CV0971E-CS	02/20/2013 19:12	1	1CB20019.D	DB-5MS 250(um)
680-87447-7	CV0971F-CS	02/20/2013 19:31	4	1CB20020.D	DB-5MS 250(um)
680-87447-8	CV0971G-CS	02/20/2013 19:49	1	1CB20021.D	DB-5MS 250(um)
680-87447-9	CV0971H-CS	02/20/2013 20:07	4	1CB20022.D	DB-5MS 250(um)
680-87447-10	CV0971I-CS	02/20/2013 20:25	1	1CB20023.D	DB-5MS 250(um)
680-87447-11	CV0971J-CS	02/20/2013 20:44	1	1CB20024.D	DB-5MS 250(um)
680-87447-12	CV0971K-CS	02/20/2013 21:02	1	1CB20025.D	DB-5MS 250(um)
680-87447-13	CV0971L-CS	02/20/2013 21:20	1	1CB20026.D	DB-5MS 250(um)
680-87447-14	CV0971M-CS	02/20/2013 21:39	1	1CB20027.D	DB-5MS 250(um)
680-87447-15	CV0971N-CS	02/20/2013 21:57	1	1CB20028.D	DB-5MS 250(um)
MB 660-134632/1-A		02/20/2013 22:15	1	1CB20029.D	DB-5MS 250(um)
LCS 660-134632/2-A		02/20/2013 22:33	1	1CB20030.D	DB-5MS 250(um)
680-87447-16	CV0971O-CS	02/20/2013 22:52	4	1CB20031.D	DB-5MS 250(um)
680-87447-17	CV0971O-CSD	02/20/2013 23:10	4	1CB20032.D	DB-5MS 250(um)
680-87447-18	CV0971AC-GS	02/20/2013 23:28	4	1CB20033.D	DB-5MS 250(um)
680-87447-19	CV0971AD-GS	02/20/2013 23:46	1	1CB20034.D	DB-5MS 250(um)
680-87447-20	CV0971AE-GS	02/21/2013 00:05	1	1CB20035.D	DB-5MS 250(um)
680-87447-21	CV0971AF-GS	02/21/2013 00:23	1	1CB20036.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 00:42	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 01:00	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 01:18	1		DB-5MS 250(um)
680-87447-A-24-B MS		02/21/2013 01:36	1	1CB20040.D	DB-5MS 250(um)
680-87447-A-24-C MSD		02/21/2013 01:55	1	1CB20041.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Batch Number: 134620 Batch Start Date: 02/19/13 11:06 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/20/13 10:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00174		
MB 660-134620/1		3546, 8270C LL		15.45 g	1 mL		1 mL		
LCS 660-134620/2		3546, 8270C LL		15.05 g	1 mL	1 mL	1 mL		
680-87447-A-1	CV0971AB-GS	3546, 8270C LL	T	15.40 g	1 mL		1 mL		
680-87447-A-2	CV0971A-CS	3546, 8270C LL	T	15.14 g	1 mL		1 mL		
680-87447-A-2 MS	CV0971A-CS	3546, 8270C LL	T	15.14 g	1 mL	1 mL	1 mL		
680-87447-A-2 MSD	CV0971A-CS	3546, 8270C LL	T	15.14 g	1 mL	1 mL	1 mL		
680-87447-A-3	CV0971B-CS	3546, 8270C LL	T	15.30 g	1 mL		1 mL		
680-87447-A-4	CV0971C-CS	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-87447-A-5	CV0971D-CS	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-87447-A-6	CV0971E-CS	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-87447-A-7	CV0971F-CS	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-87447-A-8	CV0971G-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-87447-A-9	CV0971H-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-87447-A-10	CV0971I-CS	3546, 8270C LL	T	15.32 g	1 mL		1 mL		
680-87447-A-11	CV0971J-CS	3546, 8270C LL	T	15.45 g	1 mL		1 mL		
680-87447-A-12	CV0971K-CS	3546, 8270C LL	T	15.19 g	1 mL		1 mL		
680-87447-A-13	CV0971L-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-87447-A-14	CV0971M-CS	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-87447-A-15	CV0971N-CS	3546, 8270C LL	T	14.96 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.: 680-87447-1

SDG No.: 68087447-1

Batch Number: 134620 Batch Start Date: 02/19/13 11:06 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/20/13 10:15

Batch Notes	
Acetone Lot #	EX ACETON BOT _50
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _52
MeCl2/Acetone Lot #	DCM/ ACETON _50
Microwave Start Time	13.45/2/19/13
Microwave Stop Time	14.20/2/19/13
Na2SO4 Lot Number	EX NA2S04 A_62
Ottawa Sand Lot #	OTTAW SAND _10
Person's name who did the prep	SAUREL
SOP Number	T P EX 014
Person who witnessed spiking	AG
Surrogate Lot Number	EX LLSURINT _174
Water Bath ID	TURBOVAP2#1/2/3
Water Bath Temperature	40 C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Batch Number: 134632 Batch Start Date: 02/19/13 14:49 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/20/13 10:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00171	EXLLSURINT 00174	
MB 660-134632/1		3546, 8270C LL		15.04 g	1 mL			1 mL	
LCS 660-134632/2		3546, 8270C LL		15.14 g	1 mL	1 mL		1 mL	
680-87447-A-16	CV0971O-CS	3546, 8270C LL	T	15.05 g	1 mL			1 mL	
680-87447-A-17	CV0971O-CSD	3546, 8270C LL	T	15.37 g	1 mL			1 mL	
680-87447-A-18	CV0971AC-GS	3546, 8270C LL	T	15.25 g	1 mL			1 mL	
680-87447-A-19	CV0971AD-GS	3546, 8270C LL	T	15.02 g	1 mL			1 mL	
680-87447-A-20	CV0971AE-GS	3546, 8270C LL	T	15.19 g	1 mL			1 mL	
680-87447-A-21	CV0971AF-GS	3546, 8270C LL	T	15.01 g	1 mL			1 mL	
680-87447-A-24 MS		3546, 8270C LL	T	15.16 g	1 mL	1 mL		1 mL	
680-87447-A-24 MSD		3546, 8270C LL	T	15.22 g	1 mL	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.: 680-87447-1

SDG No.: 68087447-1

Batch Number: 134632 Batch Start Date: 02/19/13 14:49 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/20/13 10:45

Batch Notes	
Acetone Lot #	EX ACETON BOT _50
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _52
MeCl2/Acetone Lot #	EX DCM/ ACETON _50
Microwave Start Time	16.55/2/19/13
Microwave Stop Time	17.30/2/19/12
Na2SO4 Lot Number	EX NA2S04 A_62
Ottawa Sand Lot #	EX-OTTOWA SAND _10
Person's name who did the prep	SAUREL
SOP Number	T P EX 014
Person who witnessed spiking	AG
Surrogate Lot Number	EX LLSURINT _174/171/170
Water Bath ID	TURBOVAP2#1/2/3
Water Bath Temperature	40 C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87447-1

SDG No.: 68087447-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0971AB-GS	680-87447-1
CV0971A-CS	680-87447-2
CV0971B-CS	680-87447-3
CV0971C-CS	680-87447-4
CV0971D-CS	680-87447-5
CV0971E-CS	680-87447-6
CV0971F-CS	680-87447-7
CV0971G-CS	680-87447-8
CV0971H-CS	680-87447-9
CV0971I-CS	680-87447-10
CV0971J-CS	680-87447-11
CV0971K-CS	680-87447-12
CV0971L-CS	680-87447-13
CV0971M-CS	680-87447-14
CV0971N-CS	680-87447-15
CV0971O-CS	680-87447-16
CV0971O-CSD	680-87447-17
CV0971AC-GS	680-87447-18
CV0971AD-GS	680-87447-19
CV0971AE-GS	680-87447-20
CV0971AF-GS	680-87447-21

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87447-1

SDG Number: 68087447-1

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: 680-87447-1

SDG Number: 68087447-1

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.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/16/2013 11:01 End Date: 02/16/2013 11:01

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-134540/1	1	T	11:01	X																			
680-87447-1	1	T	11:01	X																			
680-87447-2	1	T	11:01	X																			
680-87447-16	1	T	11:01	X																			
680-87447-17	1	T	11:01	X																			
680-87447-18	1	T	11:01	X																			
680-87447-19	1	T	11:01	X																			
680-87447-20	1	T	11:01	X																			
680-87447-21	1	T	11:01	X																			
ZZZZZZ			11:01																				
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ZZZZZZ			11:01																				
680-87447-3	1	T	11:01	X																			
680-87447-4	1	T	11:01	X																			
680-87447-5	1	T	11:01	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/17/2013 10:25 End Date: 02/17/2013 10:25

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-134547/1	1	T	10:25	X																			
ZZZZZZ			10:25																				
ZZZZZZ			10:25																				
ZZZZZZ			10:25																				
ZZZZZZ			10:25																				
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680-87447-12	1	T	10:25	X																			
680-87447-13	1	T	10:25	X																			
680-87447-14	1	T	10:25	X																			
680-87447-15	1	T	10:25	X																			
680-87447-6	1	T	10:25	X																			
680-87447-7	1	T	10:25	X																			
680-87447-8	1	T	10:25	X																			
680-87447-9	1	T	10:25	X																			
680-87447-10	1	T	10:25	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/17/2013 10:58 End Date: 02/17/2013 10:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-134548/1	1	T	10:58	X																			
680-87447-11	1	T	10:58	X																			
ZZZZZZ			10:58																				
ZZZZZZ			10:58																				
ZZZZZZ			10:58																				
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Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Batch Number: 134540 Batch Start Date: 02/16/13 11:01 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-134540/1		Moisture			0 g	5.02 g	5.02 g		
680-87447-A-1	CV0971AB-GS	Moisture	T	1	0 g	6.33 g	4.92 g		
680-87447-A-2	CV0971A-CS	Moisture	T	2	0 g	5.13 g	2.82 g		
680-87447-A-16	CV0971O-CS	Moisture	T	3	0 g	5.85 g	3.74 g		
680-87447-A-17	CV0971O-CSD	Moisture	T	4	0 g	5.39 g	3.41 g		
680-87447-A-18	CV0971AC-GS	Moisture	T	5	0 g	5.52 g	3.72 g		
680-87447-A-19	CV0971AD-GS	Moisture	T	6	0 g	5.46 g	4.16 g		
680-87447-A-20	CV0971AE-GS	Moisture	T	7	0 g	5.45 g	3.35 g		
680-87447-A-21	CV0971AF-GS	Moisture	T	8	0 g	5.47 g	3.43 g		
680-87447-A-3	CV0971B-CS	Moisture	T	18	0 g	5.69 g	3.81 g		
680-87447-A-4	CV0971C-CS	Moisture	T	19	0 g	5.01 g	2.98 g		
680-87447-A-5	CV0971D-CS	Moisture	T	20	0 g	5.57 g	3.68 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.16.13
Date samples were removed from oven	2.17.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Batch Number: 134547 Batch Start Date: 02/17/13 10:25 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-134547/1		Moisture			0 g	4.98 g	4.99 g		
680-87447-A-12	CV0971K-CS	Moisture	T	12	0 g	5.00 g	2.64 g		
680-87447-A-13	CV0971L-CS	Moisture	T	13	0 g	5.69 g	3.64 g		
680-87447-A-14	CV0971M-CS	Moisture	T	14	0 g	5.61 g	3.79 g		
680-87447-A-15	CV0971N-CS	Moisture	T	15	0 g	6.22 g	4.33 g		
680-87447-A-6	CV0971E-CS	Moisture	T	16	0 g	5.03 g	2.44 g		
680-87447-A-7	CV0971F-CS	Moisture	T	17	0 g	5.15 g	3.46 g		
680-87447-A-8	CV0971G-CS	Moisture	T	18	0 g	5.45 g	3.63 g		
680-87447-A-9	CV0971H-CS	Moisture	T	19	0 g	5.76 g	4.17 g		
680-87447-A-10	CV0971I-CS	Moisture	T	20	0 g	5.34 g	2.94 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.17.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87447-1

SDG No.: 68087447-1

Batch Number: 134548 Batch Start Date: 02/17/13 10:58 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-134548/1		Moisture			0 g	5.02 g	5.00 g		
680-87447-A-11	CV0971J-CS	Moisture	T	21	0 g	5.67 g	3.70 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.17.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Removal Ave	20057148-1356	AL	1	13

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:

REQUIRED ANALYSIS

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH 8270	RCRA Metals									REMARKS
2/13/13	931	~~CV0971AB~~ CV0971AB-GS	G		X			X										
	845	CV0971A-CS	C		X			X	X									
	851	CV0971B-CS	C		X			X										
	854	CV0971C-CS	C		X			X										
	902	CV0971D-CS	C		X			X										
	913	CV0971E-CS	C		X			X	X									
	910	CV0971F-CS	C		X			X	X									
	915	CV0971G-CS	C		X			X										3
	923	CV0971H-CS	C		X			X										
	925	CV0971I-CS	C		X			X										
	927	CV0971J-CS	C		X			X										
	940	CV0971K-CS	C		X			X	X									

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/13/13	1530						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/14/13	1018	YES ◯ NO ◯		81947	5.2c

5.2c

TAL8240-680 (1008)

Serial Number

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

(✓) TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

( ) Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 2 OF 3
35th Removal Ave	2005148-1356	AL			
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY ( )
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 675-355-5550	CLIENT FAX			DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL: LKrebs@otie.com				EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
CLIENT ADDRESS					DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)					NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH 8270									REMARKS
								NUMBER OF CONTAINERS SUBMITTED									
2/12/13	944	CV0971L-CS	C		X			X									
	951	CV0971M-CS	C		X			X									
	958	CV0971N-CS	C		X			X									
	1029	CV0971O-CS	C		X			X									
	1031	CV0971O-CSD	C		X			X									
	1005	CV0971AC-GS	G		X			X									
	1023	CV0971AD-GS	G		X			X									
	1025	CV0971AE-GS	G		X			X									
	1027	CV0971AF-GS	G		X			X									
	1046	CV0971P-CS	C		X			X									
	1048	CV0971P-CSD	C		X			X									
	1045	CV0971Q-CS	C		X			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/13/13	1530						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/14/13	1018	YES ( ) NO ( )		680 87447	1, 2, 5.2°C

TAL8240-680 (1008)

02/25/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87447-1
SDG Number: 68087447-1

Login Number: 87447
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	-30 is listed incorrectly on COC, label correctly reads "CV0971AJ-GS"
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Jar for -29 was received cracked - soil transferred to new jar
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87447-1
SDG Number: 68087447-1

Login Number: 87447
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 02/15/13 02:18 PM

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	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87447-1
SDG Number: 68087447-1

Login Number: 87447
List Number: 2
Creator: Cerome, Saurel

List Source: TestAmerica Tampa
List Creation: 02/15/13 04:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time.		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		