TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-87320-2

SDG Number: 68087320-2

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
2/21/2013 6:48 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
02/21/2013

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN: C-GA-02; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

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

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Method Summary 6

Method / Analyst Summary 7

Data Qualifiers 8

QC Association Summary 9

Manual Integration Summary 12

Organic Sample Data 22

GC/MS Semi VOA 22

Method 8270C Low Level 22

Method 8270C Low Level QC Summary 23

Method 8270C Low Level Sample Data 41

Standards Data 452

Method 8270C Low Level ICAL Data 452

Method 8270C Low Level CCAL Data 489

Raw QC Data 502

Method 8270C Low Level Tune Data 502

Method 8270C Low Level Blank Data 517

Method 8270C Low Level LCS/LCSD Data 523

Method 8270C Low Level MS/MSD Data 533

Method 8270C Low Level Run Logs 553

Method 8270C Low Level Prep Data 556

Inorganic Sample Data 560

General Chemistry Data 560

Table of Contents

Gen Chem Cover Page 561

Gen Chem MDL 562

Gen Chem Analysis Run Log 566

Gen Chem Prep Data 569

Shipping and Receiving Documents 572

Client Chain of Custody 573

Sample Receipt Checklist 576

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87320-2

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

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

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

RECEIPT

The samples were received on 02/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.0 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0748AD-GS (680-87320-21), CV0748AE-GS (680-87320-22), CV0748RR-CS (680-87320-23), CV0748SS-CS (680-87320-24), CV0748TT-CS (680-87320-25), CV0748UU-CS (680-87320-26), CV0748WW-CS (680-87320-27), CV0748XX-CS (680-87320-28), CV0748YY-CS (680-87320-29), CV0748ZZ-CS (680-87320-30), CV0748BBB-CS (680-87320-31), CV0748DDD-CS (680-87320-32), CV0748GGG-CS (680-87320-33), CV0748HHH-CS (680-87320-34), CV0797A-CS (680-87320-35), CV0798A-CS (680-87320-36) and CV0962D-CS (680-87320-37) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/18/2013 and 02/19/2013 and analyzed on 02/19/2013 and 02/20/2013.

Samples CV0748AD-GS (680-87320-21)[4X], CV0748AE-GS (680-87320-22)[4X], CV0748RR-CS (680-87320-23)[4X], CV0748SS-CS (680-87320-24)[4X], CV0748TT-CS (680-87320-25)[4X], CV0748UU-CS (680-87320-26)[4X], CV0748WW-CS (680-87320-27)[4X], CV0748XX-CS (680-87320-28)[4X], CV0748YY-CS (680-87320-29)[4X], CV0748ZZ-CS (680-87320-30)[4X], CV0748BBB-CS (680-87320-31)[4X], CV0748DDD-CS (680-87320-32)[4X], CV0748HHH-CS (680-87320-34)[4X], CV0797A-CS (680-87320-35)[4X], CV0798A-CS (680-87320-36)[4X] and CV0962D-CS (680-87320-37)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[b]fluoranthene, Fluoranthene and Pyrene recovered outside the recovery criteria for the MSD of sample CV0748AD-GSMSD (680-87320-21) in batch 660-134673.

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

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-2
Sdg Number: 68087320-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87320-21	CV0748AD-GS	Solid	02/06/2013 1306	02/09/2013 0934
680-87320-21MS	CV0748AD-GS	Solid	02/06/2013 1306	02/09/2013 0934
680-87320-21MSD	CV0748AD-GS	Solid	02/06/2013 1306	02/09/2013 0934
680-87320-22	CV0748AE-GS	Solid	02/06/2013 1530	02/09/2013 0934
680-87320-23	CV0748RR-CS	Solid	02/06/2013 1303	02/09/2013 0934
680-87320-24	CV0748SS-CS	Solid	02/06/2013 1326	02/09/2013 0934
680-87320-25	CV0748TT-CS	Solid	02/06/2013 1324	02/09/2013 0934
680-87320-26	CV0748UU-CS	Solid	02/06/2013 1349	02/09/2013 0934
680-87320-27	CV0748WW-CS	Solid	02/06/2013 1357	02/09/2013 0934
680-87320-28	CV0748XX-CS	Solid	02/06/2013 1407	02/09/2013 0934
680-87320-29	CV0748YY-CS	Solid	02/06/2013 1424	02/09/2013 0934
680-87320-30	CV0748ZZ-CS	Solid	02/06/2013 1428	02/09/2013 0934
680-87320-31	CV0748BBB-CS	Solid	02/06/2013 1447	02/09/2013 0934
680-87320-32	CV0748DDD-CS	Solid	02/06/2013 1519	02/09/2013 0934
680-87320-33	CV0748GGG-CS	Solid	02/06/2013 1542	02/09/2013 0934
680-87320-34	CV0748HHH-CS	Solid	02/06/2013 1545	02/09/2013 0934
680-87320-35	CV0797A-CS	Solid	02/06/2013 1420	02/09/2013 0934
680-87320-36	CV0798A-CS	Solid	02/06/2013 1400	02/09/2013 0934
680-87320-37	CV0962D-CS	Solid	02/06/2013 1355	02/09/2013 0934

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-2
Sdg Number: 68087320-2

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-2
Sdg Number: 68087320-2

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-2
Sdg Number: 68087320-2

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-2
Sdg Number: 68087320-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134575					
LCS 660-134575/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134575/1-A	Method Blank	T	Solid	3546	
680-87320-21	CV0748AD-GS	T	Solid	3546	
680-87320-21MS	Matrix Spike	T	Solid	3546	
680-87320-21MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87320-22	CV0748AE-GS	T	Solid	3546	
680-87320-23	CV0748RR-CS	T	Solid	3546	
680-87320-24	CV0748SS-CS	T	Solid	3546	
680-87320-25	CV0748TT-CS	T	Solid	3546	
680-87320-26	CV0748UU-CS	T	Solid	3546	
680-87320-27	CV0748WW-CS	T	Solid	3546	
680-87320-28	CV0748XX-CS	T	Solid	3546	
680-87320-29	CV0748YY-CS	T	Solid	3546	
680-87320-30	CV0748ZZ-CS	T	Solid	3546	
680-87320-31	CV0748BBB-CS	T	Solid	3546	
680-87320-32	CV0748DDD-CS	T	Solid	3546	
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	
680-87320-33	CV0748GGG-CS	T	Solid	3546	
680-87320-34	CV0748HHH-CS	T	Solid	3546	
680-87320-35	CV0797A-CS	T	Solid	3546	
680-87320-36	CV0798A-CS	T	Solid	3546	
680-87320-37	CV0962D-CS	T	Solid	3546	
680-87447-A-2-B MS	Matrix Spike	T	Solid	3546	
680-87447-A-2-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-134673					
LCS 660-134575/2-A	Lab Control Sample	T	Solid	8270C LL	660-134575
MB 660-134575/1-A	Method Blank	T	Solid	8270C LL	660-134575
680-87320-21	CV0748AD-GS	T	Solid	8270C LL	660-134575
680-87320-21MS	Matrix Spike	T	Solid	8270C LL	660-134575
680-87320-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134575
680-87320-22	CV0748AE-GS	T	Solid	8270C LL	660-134575
680-87320-23	CV0748RR-CS	T	Solid	8270C LL	660-134575
680-87320-24	CV0748SS-CS	T	Solid	8270C LL	660-134575
680-87320-25	CV0748TT-CS	T	Solid	8270C LL	660-134575
680-87320-26	CV0748UU-CS	T	Solid	8270C LL	660-134575
680-87320-27	CV0748WW-CS	T	Solid	8270C LL	660-134575
680-87320-28	CV0748XX-CS	T	Solid	8270C LL	660-134575
680-87320-29	CV0748YY-CS	T	Solid	8270C LL	660-134575
680-87320-30	CV0748ZZ-CS	T	Solid	8270C LL	660-134575
680-87320-31	CV0748BBB-CS	T	Solid	8270C LL	660-134575
680-87320-32	CV0748DDD-CS	T	Solid	8270C LL	660-134575

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-2
Sdg Number: 68087320-2

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
680-87320-33	CV0748GGG-CS	T	Solid	8270C LL	660-134620
680-87320-34	CV0748HHH-CS	T	Solid	8270C LL	660-134620
680-87320-35	CV0797A-CS	T	Solid	8270C LL	660-134620
680-87320-36	CV0798A-CS	T	Solid	8270C LL	660-134620
680-87320-37	CV0962D-CS	T	Solid	8270C LL	660-134620
680-87447-A-2-B MS	Matrix Spike	T	Solid	8270C LL	660-134620
680-87447-A-2-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134620

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-2
Sdg Number: 68087320-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134437					
LCS 660-134437/1	Lab Control Sample	T	Solid	Moisture	
680-87318-A-4 MS	Matrix Spike	T	Solid	Moisture	
680-87318-A-4 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-87320-28	CV0748XX-CS	T	Solid	Moisture	
680-87320-29	CV0748YY-CS	T	Solid	Moisture	
680-87320-30	CV0748ZZ-CS	T	Solid	Moisture	
680-87320-31	CV0748BBB-CS	T	Solid	Moisture	
680-87320-32	CV0748DDD-CS	T	Solid	Moisture	
680-87320-33	CV0748GGG-CS	T	Solid	Moisture	
680-87320-35	CV0797A-CS	T	Solid	Moisture	
680-87320-36	CV0798A-CS	T	Solid	Moisture	
680-87320-37	CV0962D-CS	T	Solid	Moisture	
Analysis Batch:660-134441					
LCS 660-134441/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134441/17	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87320-21	CV0748AD-GS	T	Solid	Moisture	
680-87320-21MS	Matrix Spike	T	Solid	Moisture	
680-87320-21MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-87320-22	CV0748AE-GS	T	Solid	Moisture	
680-87320-23	CV0748RR-CS	T	Solid	Moisture	
680-87320-24	CV0748SS-CS	T	Solid	Moisture	
680-87320-25	CV0748TT-CS	T	Solid	Moisture	
680-87320-26	CV0748UU-CS	T	Solid	Moisture	
680-87320-27	CV0748WW-CS	T	Solid	Moisture	
Analysis Batch:660-134478					
LCS 660-134478/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134478/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87318-A-41 MS	Matrix Spike	T	Solid	Moisture	
680-87318-A-41 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-87320-34	CV0748HHH-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: BSMC5973 Analysis Batch Number: 133227

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: BSMC5973 Analysis Batch Number: 133227

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

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

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

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: BSMC5973 Analysis Batch Number: 133227

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: BSMC5973 Analysis Batch Number: 134673

Lab Sample ID: CCVIS 660-134673/3 Client Sample ID:

Date Analyzed: 02/19/13 11:06 Lab File ID: 1CB19003.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	02/19/13 11:24

Lab Sample ID: LCS 660-134575/2-A Client Sample ID:

Date Analyzed: 02/19/13 15:05 Lab File ID: 1CB19006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/20/13 13:23

Lab Sample ID: 680-87320-21 Client Sample ID: CV0748AD-GS

Date Analyzed: 02/19/13 17:49 Lab File ID: 1CB19015.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	02/20/13 13:35
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/20/13 13:35
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/20/13 13:36

Lab Sample ID: 680-87320-21 MS Client Sample ID: CV0748AD-GS MS

Date Analyzed: 02/19/13 18:07 Lab File ID: 1CB19016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/20/13 13:39

Lab Sample ID: 680-87320-21 MSD Client Sample ID: CV0748AD-GS MSD

Date Analyzed: 02/19/13 18:26 Lab File ID: 1CB19017.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 13:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: BSMC5973 Analysis Batch Number: 134673

Lab Sample ID: 680-87320-22 Client Sample ID: CV0748AE-GS

Date Analyzed: 02/19/13 18:44 Lab File ID: 1CB19018.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	02/20/13 13:40
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/20/13 13:40
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:41

Lab Sample ID: 680-87320-23 Client Sample ID: CV0748RR-CS

Date Analyzed: 02/19/13 19:02 Lab File ID: 1CB19019.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	02/20/13 13:42
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/20/13 13:42
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:42
Dibenz(a,h)anthracene	10.26	Baseline Event	cantins	02/20/13 13:42

Lab Sample ID: 680-87320-24 Client Sample ID: CV0748SS-CS

Date Analyzed: 02/19/13 19:21 Lab File ID: 1CB19020.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	02/20/13 13:43
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/20/13 13:43
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/20/13 13:44
Benzo[g,h,i]perylene	10.62	Baseline Event	cantins	02/20/13 13:43

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: BSMC5973 Analysis Batch Number: 134673

Lab Sample ID: 680-87320-25 Client Sample ID: CV0748TT-CS

Date Analyzed: 02/19/13 19:39 Lab File ID: 1CB19021.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	02/20/13 13:44
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/20/13 13:44
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/20/13 13:45
Dibenz(a,h)anthracene	10.26	Baseline Event	cantins	02/20/13 13:45

Lab Sample ID: 680-87320-26 Client Sample ID: CV0748UU-CS

Date Analyzed: 02/19/13 19:57 Lab File ID: 1CB19022.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	02/20/13 13:46
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/20/13 13:46
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/20/13 13:46

Lab Sample ID: 680-87320-27 Client Sample ID: CV0748WW-CS

Date Analyzed: 02/19/13 20:15 Lab File ID: 1CB19023.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	02/20/13 13:47
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/20/13 13:47
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:47
Benzo[g,h,i]perylene	10.62	Baseline Event	cantins	02/20/13 13:47

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: BSMC5973 Analysis Batch Number: 134673

Lab Sample ID: 680-87320-28 Client Sample ID: CV0748XX-CS

Date Analyzed: 02/19/13 20:34 Lab File ID: 1CB19024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.68	Analyte Misidentified by the Data System	cantins	02/20/13 13:48
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:48
Benzo[g,h,i]perylene	10.61	Baseline Event	cantins	02/20/13 13:48

Lab Sample ID: 680-87320-29 Client Sample ID: CV0748YY-CS

Date Analyzed: 02/19/13 20:52 Lab File ID: 1CB19025.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	02/20/13 13:49
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/20/13 13:49
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:50
Dibenz(a,h)anthracene	10.26	Baseline Event	cantins	02/20/13 13:49

Lab Sample ID: 680-87320-30 Client Sample ID: CV0748ZZ-CS

Date Analyzed: 02/19/13 21:10 Lab File ID: 1CB19026.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	02/20/13 13:51
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/20/13 13:51
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/20/13 13:51

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: BSMC5973 Analysis Batch Number: 134673

Lab Sample ID: 680-87320-31 Client Sample ID: CV0748BBB-CS

Date Analyzed: 02/19/13 21:28 Lab File ID: 1CB19027.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	02/20/13 13:52
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/20/13 13:52
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:52

Lab Sample ID: 680-87320-32 Client Sample ID: CV0748DDD-CS

Date Analyzed: 02/19/13 21:47 Lab File ID: 1CB19028.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	02/20/13 13:53
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/20/13 13:53
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:54

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

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: 680-87320-33 Client Sample ID: CV0748GGG-CS

Date Analyzed: 02/20/13 15:34 Lab File ID: 1CB20007.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	02/20/13 17:45
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/20/13 17:45
Dibenz(a,h)anthracene	10.23	Baseline Event	cantins	02/20/13 17:45
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/20/13 17:46
Benzo[g,h,i]perylene	10.60	Baseline Event	cantins	02/20/13 17:45

Lab Sample ID: 680-87320-34 Client Sample ID: CV0748HHH-CS

Date Analyzed: 02/20/13 15:52 Lab File ID: 1CB20008.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	02/20/13 17:57
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/20/13 17:58
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/20/13 17:58
Benzo[g,h,i]perylene	10.59	Baseline Event	cantins	02/20/13 17:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: BSMC5973 Analysis Batch Number: 134694

Lab Sample ID: 680-87320-35 Client Sample ID: CV0797A-CS

Date Analyzed: 02/20/13 16:10 Lab File ID: 1CB20009.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 17:59

Lab Sample ID: 680-87320-36 Client Sample ID: CV0798A-CS

Date Analyzed: 02/20/13 16:28 Lab File ID: 1CB20010.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	02/20/13 17:59
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/20/13 17:59
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/20/13 18:00

Lab Sample ID: 680-87320-37 Client Sample ID: CV0962D-CS

Date Analyzed: 02/20/13 16:46 Lab File ID: 1CB20011.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 09:19

Lab Sample ID: 680-87447-A-2-B MS Client Sample ID:

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-A-2-C MSD Client Sample ID:

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

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.: 680-87320-2

SDG No.: 68087320-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0748AD-GS	680-87320-21	113
CV0748AE-GS	680-87320-22	91
CV0748RR-CS	680-87320-23	97
CV0748SS-CS	680-87320-24	96
CV0748TT-CS	680-87320-25	94
CV0748UU-CS	680-87320-26	104
CV0748WW-CS	680-87320-27	101
CV0748XX-CS	680-87320-28	107
CV0748YY-CS	680-87320-29	109
CV0748ZZ-CS	680-87320-30	105
CV0748BBB-CS	680-87320-31	92
CV0748DDD-CS	680-87320-32	89
CV0748GGG-CS	680-87320-33	57
CV0748HHH-CS	680-87320-34	87
CV0797A-CS	680-87320-35	106
CV0798A-CS	680-87320-36	72
CV0962D-CS	680-87320-37	79
	MB 660-134575/1-A	87
	MB 660-134620/1-A	76
	LCS 660-134575/2-A	92
	LCS 660-134620/2-A	71
	680-87447-A-2-B MS	82
CV0748AD-GS MS	680-87320-21 MS	96
	680-87447-A-2-C MSD	90
CV0748AD-GS MSD	680-87320-21 MSD	110

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.: 680-87320-2

SDG No.: 68087320-2

Matrix: Solid Level: Low Lab File ID: 1CB19006.D

Lab ID: LCS 660-134575/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	651	487	75	39-130	
Acenaphthylene	651	530	81	38-130	
Anthracene	651	554	85	37-130	
Benzo[a]anthracene	651	579	89	40-130	
Benzo[a]pyrene	651	540	83	49-130	
Benzo[b]fluoranthene	651	569	87	37-130	
Benzo[g,h,i]perylene	651	511	79	32-130	
Benzo[k]fluoranthene	651	552	85	32-130	
Chrysene	651	499	77	41-130	
Dibenz(a,h)anthracene	651	516	79	27-130	
Fluoranthene	651	567	87	40-130	
Fluorene	651	520	80	40-130	
Indeno[1,2,3-cd]pyrene	651	514	79	30-130	
1-Methylnaphthalene	651	560	86	31-130	
2-Methylnaphthalene	651	518	80	33-130	
Naphthalene	651	480	74	36-130	
Phenanthrene	651	485	74	42-130	
Pyrene	651	580	89	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.: 680-87320-2

SDG No.: 68087320-2

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 MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

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

Lab ID: 680-87447-A-2-B MS Client ID:

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 RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Matrix: Solid Level: Low Lab File ID: 1CB19016.D

Lab ID: 680-87320-21 MS Client ID: CV0748AD-GS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	901	540 U	641	71	39-130	
Acenaphthylene	901	48 J	795	83	38-130	
Anthracene	901	100	862	85	37-130	
Benzo[a]anthracene	901	500	1230	81	40-130	
Benzo[a]pyrene	901	480	1190	78	49-130	
Benzo[b]fluoranthene	901	810	1680	96	37-130	
Benzo[g,h,i]perylene	901	410	1020	68	32-130	
Benzo[k]fluoranthene	901	360	1000	71	32-130	
Chrysene	901	620	1290	74	41-130	
Dibenz(a,h)anthracene	901	120	796	75	27-130	
Fluoranthene	901	760	1470	78	40-130	
Fluorene	901	34 J	735	78	40-130	
Indeno[1,2,3-cd]pyrene	901	310	972	73	30-130	
1-Methylnaphthalene	901	190 J	920	81	31-130	
2-Methylnaphthalene	901	210 J	848	71	33-130	
Naphthalene	901	180 J	843	73	36-130	
Phenanthrene	901	440	1100	74	42-130	
Pyrene	901	720	1620	100	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.: 680-87320-2

SDG No.: 68087320-2

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

Lab ID: 680-87447-A-2-C MSD Client ID:

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 III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Matrix: Solid Level: Low Lab File ID: 1CB19017.D

Lab ID: 680-87320-21 MSD Client ID: CV0748AD-GS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	901	856	95	29	40	39-130	
Acenaphthylene	901	920	97	15	40	38-130	
Anthracene	901	1040	104	18	40	37-130	
Benzo[a]anthracene	901	1600	122	27	40	40-130	
Benzo[a]pyrene	901	1510	114	24	40	49-130	
Benzo[b]fluoranthene	901	2020	133	18	40	37-130	F
Benzo[g,h,i]perylene	901	1250	93	20	40	32-130	
Benzo[k]fluoranthene	901	1350	110	29	40	32-130	
Chrysene	901	1560	105	19	40	41-130	
Dibenz(a,h)anthracene	901	933	90	16	40	27-130	
Fluoranthene	901	1940	131	28	40	40-130	F
Fluorene	901	903	96	21	40	40-130	
Indeno[1,2,3-cd]pyrene	901	1140	92	16	40	30-130	
1-Methylnaphthalene	901	1160	107	23	40	31-130	
2-Methylnaphthalene	901	1040	92	20	40	33-130	
Naphthalene	901	955	86	13	40	36-130	
Phenanthrene	901	1460	114	28	40	42-130	
Pyrene	901	2030	145	22	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Lab File ID: 1CB19005.D Lab Sample ID: MB 660-134575/1-A

Matrix: Solid Date Extracted: 02/18/2013 11:03

Instrument ID: BSMC5973 Date Analyzed: 02/19/2013 14:47

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134575/2-A	1CB19006.D	02/19/2013 15:05
CV0748AD-GS	680-87320-21	1CB19015.D	02/19/2013 17:49
CV0748AD-GS MS	680-87320-21 MS	1CB19016.D	02/19/2013 18:07
CV0748AD-GS MSD	680-87320-21 MSD	1CB19017.D	02/19/2013 18:26
CV0748AE-GS	680-87320-22	1CB19018.D	02/19/2013 18:44
CV0748RR-CS	680-87320-23	1CB19019.D	02/19/2013 19:02
CV0748SS-CS	680-87320-24	1CB19020.D	02/19/2013 19:21
CV0748TT-CS	680-87320-25	1CB19021.D	02/19/2013 19:39
CV0748UU-CS	680-87320-26	1CB19022.D	02/19/2013 19:57
CV0748WW-CS	680-87320-27	1CB19023.D	02/19/2013 20:15
CV0748XX-CS	680-87320-28	1CB19024.D	02/19/2013 20:34
CV0748YY-CS	680-87320-29	1CB19025.D	02/19/2013 20:52
CV0748ZZ-CS	680-87320-30	1CB19026.D	02/19/2013 21:10
CV0748BBB-CS	680-87320-31	1CB19027.D	02/19/2013 21:28
CV0748DDD-CS	680-87320-32	1CB19028.D	02/19/2013 21:47

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

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
CV0748GGG-CS	680-87320-33	1CB20007.D	02/20/2013 15:34
CV0748HHH-CS	680-87320-34	1CB20008.D	02/20/2013 15:52
CV0797A-CS	680-87320-35	1CB20009.D	02/20/2013 16:10
CV0798A-CS	680-87320-36	1CB20010.D	02/20/2013 16:28
CV0962D-CS	680-87320-37	1CB20011.D	02/20/2013 16:46
	680-87447-A-2-B MS	1CB20014.D	02/20/2013 17:41
	680-87447-A-2-C MSD	1CB20015.D	02/20/2013 17:59

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

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

Instrument ID: BSMC5973 DFTPP Injection Time: 11:23

Analysis Batch No.: 133227

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

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Lab File ID: 1CB19002.D DFTPP Injection Date: 02/19/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 10:50

Analysis Batch No.: 134673

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	36.2	
68	Less than 2.0 % of mass 69	0.9	(1.8)1
69	Mass 69 relative abundance	50.0	
70	Less than 2.0 % of mass 69	0.2	(0.3)1
127	10.0 - 80.0 % of mass 198	44.9	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.7	
275	10.0 - 60.0 % of mass 198	20.7	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	10.6	
442	Greater than 50.0 % of mass 198	68.8	
443	15.0 - 24.0 % of mass 442	13.7	(19.9)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 660-134673/3	1CB19003.D	02/19/2013	11:06
	MB 660-134575/1-A	1CB19005.D	02/19/2013	14:47
	LCS 660-134575/2-A	1CB19006.D	02/19/2013	15:05
CV0748AD-GS	680-87320-21	1CB19015.D	02/19/2013	17:49
CV0748AD-GS MS	680-87320-21 MS	1CB19016.D	02/19/2013	18:07
CV0748AD-GS MSD	680-87320-21 MSD	1CB19017.D	02/19/2013	18:26
CV0748AE-GS	680-87320-22	1CB19018.D	02/19/2013	18:44
CV0748RR-CS	680-87320-23	1CB19019.D	02/19/2013	19:02
CV0748SS-CS	680-87320-24	1CB19020.D	02/19/2013	19:21
CV0748TT-CS	680-87320-25	1CB19021.D	02/19/2013	19:39
CV0748UU-CS	680-87320-26	1CB19022.D	02/19/2013	19:57
CV0748WW-CS	680-87320-27	1CB19023.D	02/19/2013	20:15
CV0748XX-CS	680-87320-28	1CB19024.D	02/19/2013	20:34
CV0748YY-CS	680-87320-29	1CB19025.D	02/19/2013	20:52
CV0748ZZ-CS	680-87320-30	1CB19026.D	02/19/2013	21:10
CV0748BBB-CS	680-87320-31	1CB19027.D	02/19/2013	21:28
CV0748DDD-CS	680-87320-32	1CB19028.D	02/19/2013	21:47

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

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
CV0748GGG-CS	680-87320-33	1CB20007.D	02/20/2013	15:34
CV0748HHH-CS	680-87320-34	1CB20008.D	02/20/2013	15:52
CV0797A-CS	680-87320-35	1CB20009.D	02/20/2013	16:10
CV0798A-CS	680-87320-36	1CB20010.D	02/20/2013	16:28
CV0962D-CS	680-87320-37	1CB20011.D	02/20/2013	16:46
	680-87447-A-2-B MS	1CB20014.D	02/20/2013	17:41
	680-87447-A-2-C MSD	1CB20015.D	02/20/2013	17:59

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

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

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

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

Calibration ID: 2667

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

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

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

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

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

Calibration ID: 2667

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

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Sample No.: CCVIS 660-134673/3 Date Analyzed: 02/19/2013 11:06

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

Lab File ID (Standard): 1CB19003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2572245	3.82	1964004	4.90	3670146	5.86
UPPER LIMIT		5144490	4.32	3928008	5.40	7340292	6.36
LOWER LIMIT		1286123	3.32	982002	4.40	1835073	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134575/1-A		2045775	3.82	1629406	4.91	2925589	5.87
LCS 660-134575/2-A		1929802	3.82	1544217	4.90	2839629	5.86
680-87320-21	CV0748AD-GS	2038578	3.82	1544724	4.90	2808372	5.86
680-87320-21 MS	CV0748AD-GS MS	2153571	3.82	1647626	4.90	2961943	5.86
680-87320-21 MSD	CV0748AD-GS MSD	2205129	3.82	1659623	4.90	2923400	5.86
680-87320-22	CV0748AE-GS	2088671	3.82	1664431	4.90	2854658	5.86
680-87320-23	CV0748RR-CS	2120676	3.82	1618233	4.90	2894202	5.86
680-87320-24	CV0748SS-CS	2171280	3.82	1635993	4.90	2934765	5.86
680-87320-25	CV0748TT-CS	2158204	3.82	1628888	4.90	2915390	5.86
680-87320-26	CV0748UU-CS	2209761	3.82	1674530	4.90	2899386	5.86
680-87320-27	CV0748WW-CS	2198445	3.82	1675571	4.90	2945392	5.86
680-87320-28	CV0748XX-CS	2102429	3.82	1602929	4.90	2850257	5.86
680-87320-29	CV0748YY-CS	2044489	3.82	1556165	4.90	2692209	5.86
680-87320-30	CV0748ZZ-CS	2270778	3.82	1736184	4.90	3023582	5.86
680-87320-31	CV0748BBB-CS	2279842	3.82	1708497	4.90	3065452	5.86
680-87320-32	CV0748DDD-CS	2262296	3.82	1695400	4.90	2992429	5.86

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Sample No.: CCVIS 660-134673/3 Date Analyzed: 02/19/2013 11:06

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

Lab File ID (Standard): 1CB19003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3917198	7.81	3584382	9.03		
UPPER LIMIT		7834396	8.31	7168764	9.53		
LOWER LIMIT		1958599	7.31	1792191	8.53		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134575/1-A		3238232	7.83	3085834	9.06		
LCS 660-134575/2-A		3148649	7.81	2975764	9.03		
680-87320-21	CV0748AD-GS	2884026	7.80	2635392	9.03		
680-87320-21 MS	CV0748AD-GS MS	2919460	7.80	2747924	9.02		
680-87320-21 MSD	CV0748AD-GS MSD	2881081	7.80	2721533	9.03		
680-87320-22	CV0748AE-GS	2795540	7.80	2624693	9.03		
680-87320-23	CV0748RR-CS	2843227	7.80	2600938	9.03		
680-87320-24	CV0748SS-CS	2881195	7.80	2701310	9.03		
680-87320-25	CV0748TT-CS	2868916	7.80	2710405	9.03		
680-87320-26	CV0748UU-CS	2902467	7.80	2697708	9.03		
680-87320-27	CV0748WW-CS	3006198	7.80	2846576	9.03		
680-87320-28	CV0748XX-CS	2860433	7.80	2750314	9.03		
680-87320-29	CV0748YY-CS	2662292	7.80	2558984	9.03		
680-87320-30	CV0748ZZ-CS	2968198	7.80	2793304	9.03		
680-87320-31	CV0748BBB-CS	2966885	7.80	2813343	9.03		
680-87320-32	CV0748DDD-CS	2966090	7.80	2790342	9.03		

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.: 680-87320-2

SDG No.: 68087320-2

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
680-87320-33	CV0748GGG-CS	2122385	3.81	1678505	4.90	3008375	5.85
680-87320-34	CV0748HHH-CS	1952036	3.81	1469376	4.90	2688637	5.85
680-87320-35	CV0797A-CS	1923976	3.81	1450370	4.90	2745798	5.85
680-87320-36	CV0798A-CS	2152877	3.81	1645754	4.90	3052263	5.85
680-87320-37	CV0962D-CS	2161388	3.81	1631794	4.90	2961095	5.85
680-87447-A-2-B MS		1994943	3.81	1529771	4.90	2810401	5.85
680-87447-A-2-C MSD		1886451	3.81	1507646	4.90	2749034	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.: 680-87320-2

SDG No.: 68087320-2

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		
680-87320-33	CV0748GGG-CS	3441227	7.80	3448251	9.02		
680-87320-34	CV0748HHH-CS	3003347	7.80	2923455	9.02		
680-87320-35	CV0797A-CS	2986835	7.80	2998126	9.02		
680-87320-36	CV0798A-CS	3422999	7.80	3350902	9.02		
680-87320-37	CV0962D-CS	3146150	7.80	2974072	9.02		
680-87447-A-2-B MS		2952562	7.80	2831377	9.02		
680-87447-A-2-C MSD		2949677	7.80	2825525	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.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748AD-GS | Lab Sample ID: 680-87320-21

Matrix: Solid | Lab File ID: 1CB19015.D

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

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 15.21(g) | Date Analyzed: 02/19/2013 17:49

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

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

% Moisture: 27.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	48	J	220	27
120-12-7	Anthracene	100		45	23
56-55-3	Benzo[a]anthracene	500		43	21
50-32-8	Benzo[a]pyrene	480		56	28
205-99-2	Benzo[b]fluoranthene	810	F	66	33
191-24-2	Benzo[g,h,i]perylene	410		110	24
207-08-9	Benzo[k]fluoranthene	360		43	19
218-01-9	Chrysene	620		49	24
53-70-3	Dibenz(a,h)anthracene	120		110	22
206-44-0	Fluoranthene	760	F	110	22
86-73-7	Fluorene	34	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	310		110	38
90-12-0	1-Methylnaphthalene	190	J	220	24
91-57-6	2-Methylnaphthalene	210	J	220	38
91-20-3	Naphthalene	180	J	220	24
85-01-8	Phenanthrene	440		43	21
129-00-0	Pyrene	720	F	110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	113		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19015.D
Lab Smp Id: 680-87320-A-21-A Client Smp ID: CV0748AD-GS
Inj Date : 19-FEB-2013 17:49
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-21-a
Misc Info : 680-87320-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 15
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	15.210	Weight Extracted
M	27.060	% 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	3.816	3.816	(1.000)	2038578	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1544724	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2808372	40.0000	
$ 14 o-Terphenyl	230	6.109	6.110	(1.043)	116037	2.81992	1016.7222
* 18 Chrysene-d12	240	7.803	7.809	(1.000)	2884026	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2635392	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	27121	0.50206	181.0171
3 2-Methylnaphthalene	142	4.251	4.257	(1.114)	20282	0.57743	208.1908
4 1-Methylnaphthalene	142	4.315	4.316	(1.131)	17192	0.53816	194.0355
5 Acenaphthylene	152	4.815	4.816	(0.982)	8199	0.13341	48.1022
9 Fluorene	166	5.245	5.245	(1.070)	4692	0.09483	34.1914(Q)
11 Phenanthrene	178	5.874	5.874	(1.003)	102107	1.21805	439.1695
12 Anthracene	178	5.904	5.910	(1.008)	20901	0.27674	99.7778
13 Carbazole	167	6.015	6.015	(1.027)	13205	0.20128	72.5730

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	173002	2.11206	761.5028
16 Pyrene	202	6.880	6.886	(0.882)	153914	2.00462	722.7646
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	110032	1.38351	498.8251
19 Chrysene	228	7.821	7.827	(1.002)	140562	1.71101	616.9064
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	145666	2.25450	812.8606(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.961)	71034	0.99795	359.8099(M)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	82620	1.34383	484.5166
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.251	(1.134)	51410	0.87060	313.8942(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	19194	0.34468	124.2743
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	68005	1.13371	408.7598

QC Flag Legend

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

Data File: 1CB19015.D

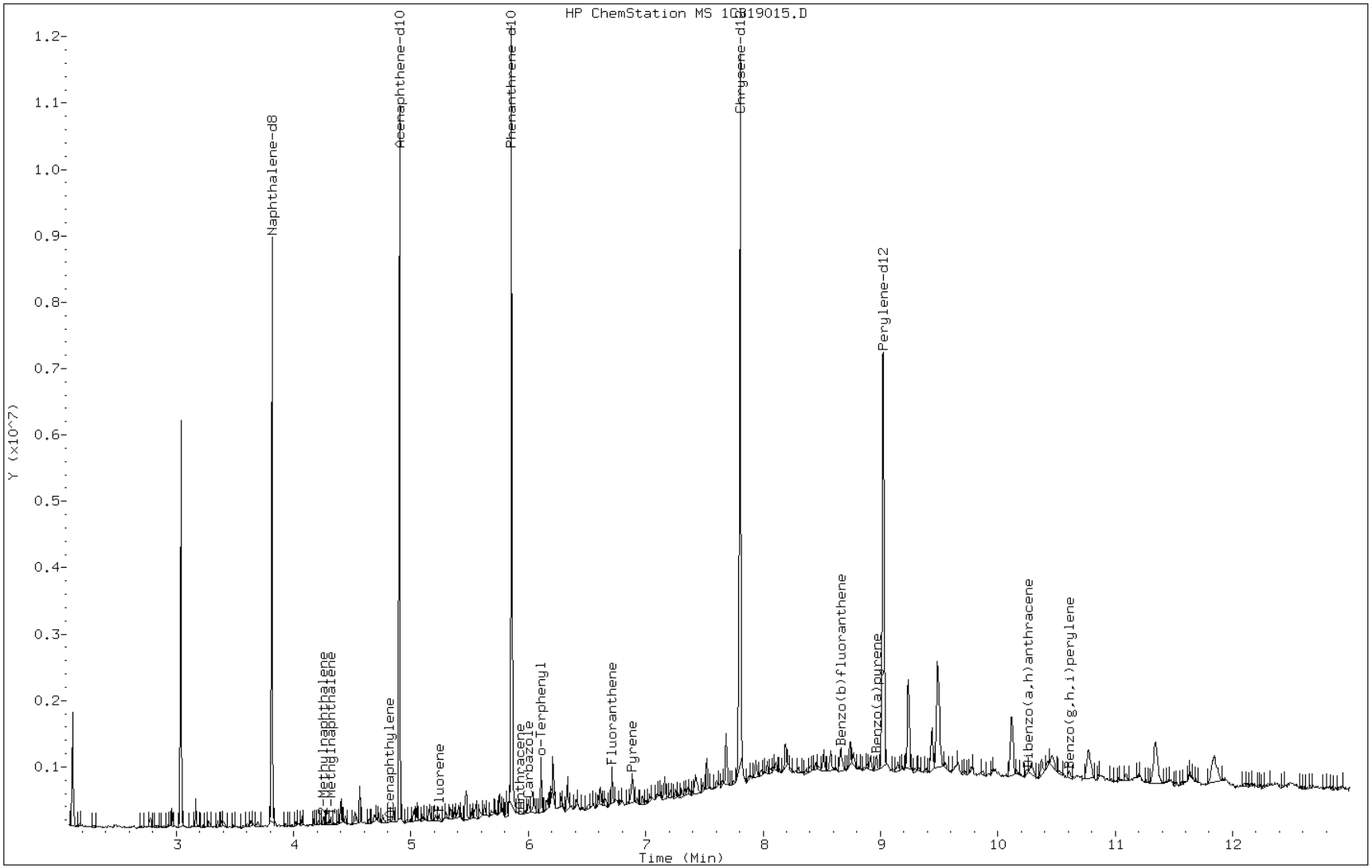
Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a

Operator: SCC



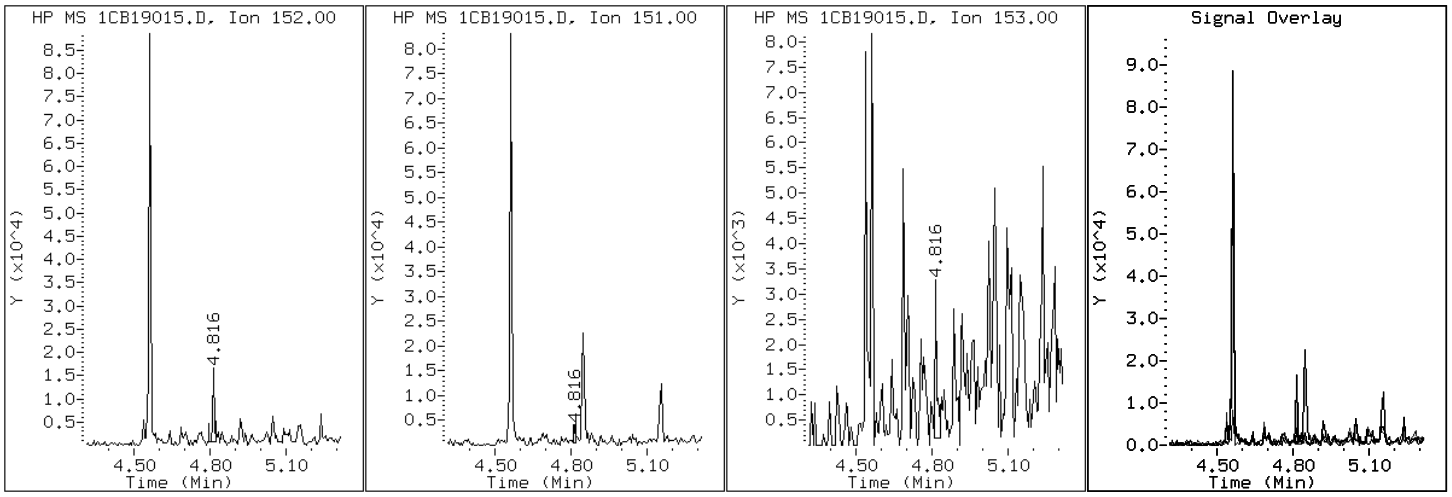
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a Operator: SCC

5 Acenaphthylene



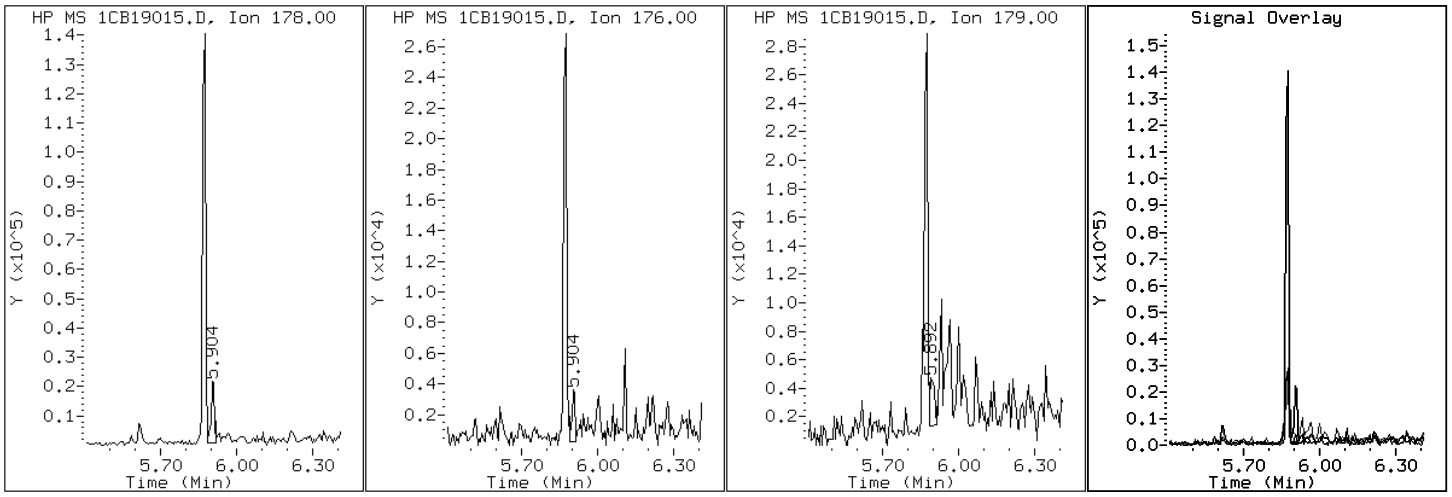
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a | Operator: SCC

12 Anthracene



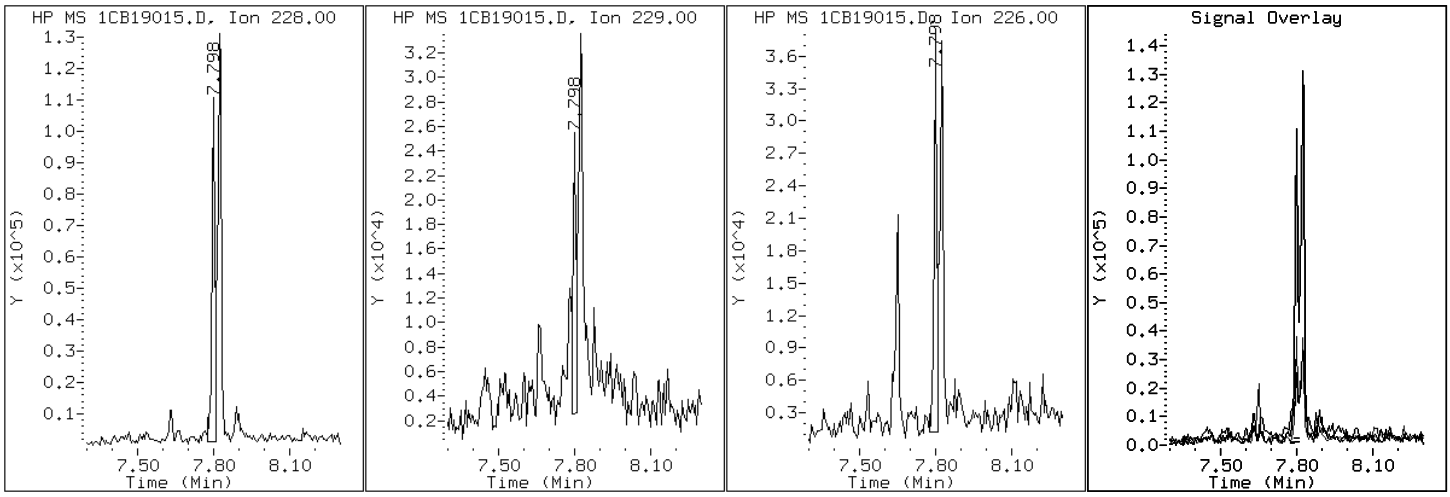
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a | Operator: SCC

17 Benzo(a)anthracene



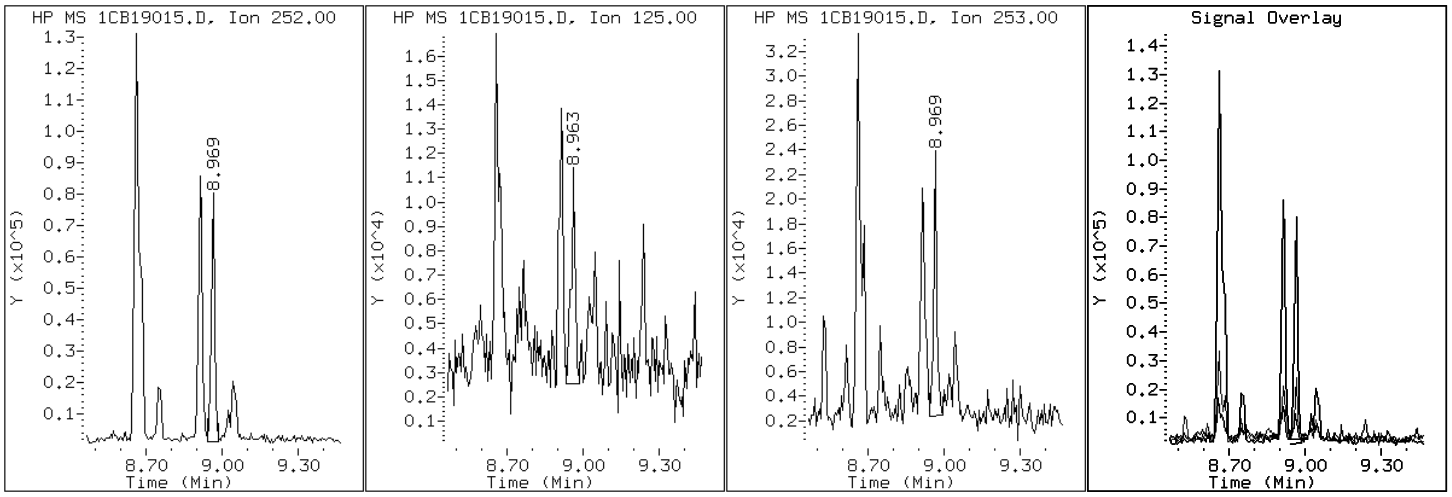
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a Operator: SCC

22 Benzo(a)pyrene



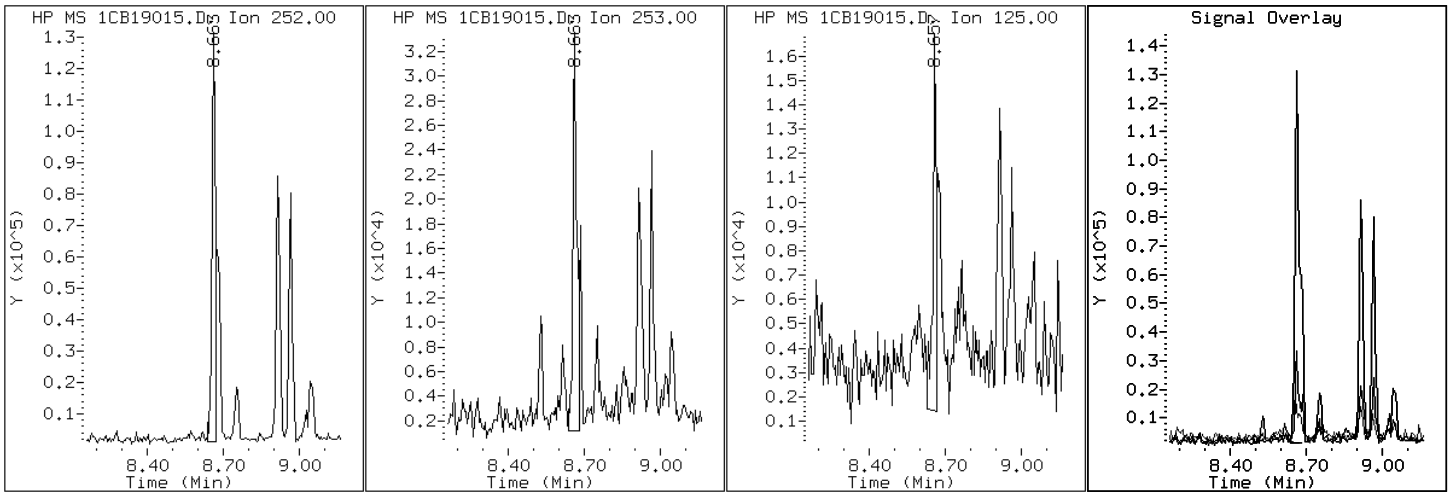
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a Operator: SCC

20 Benzo(b)fluoranthene



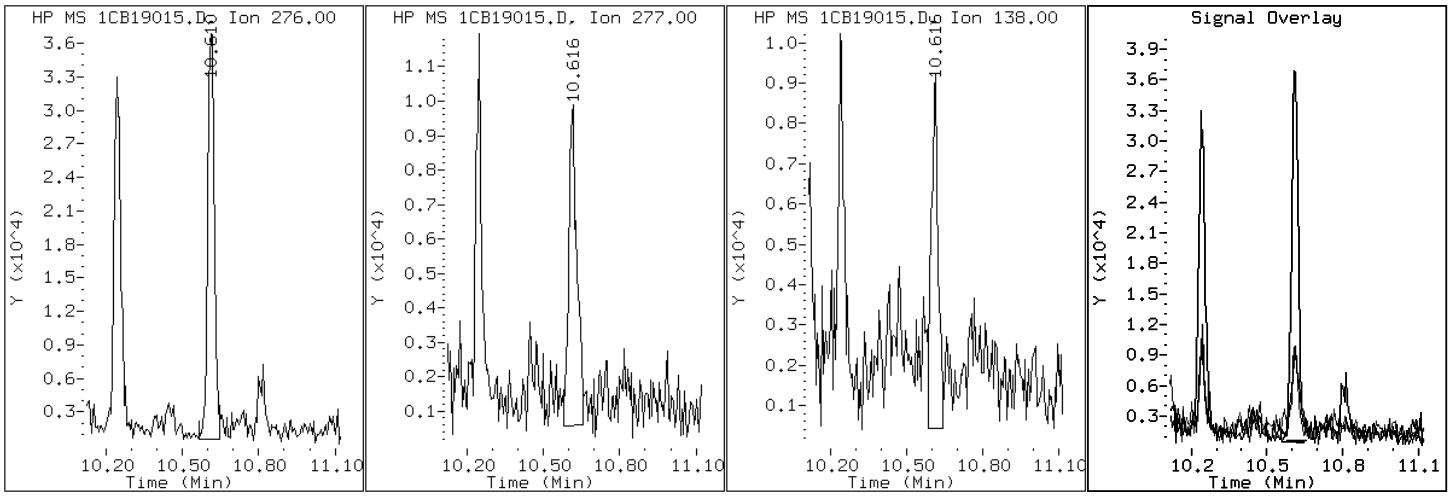
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

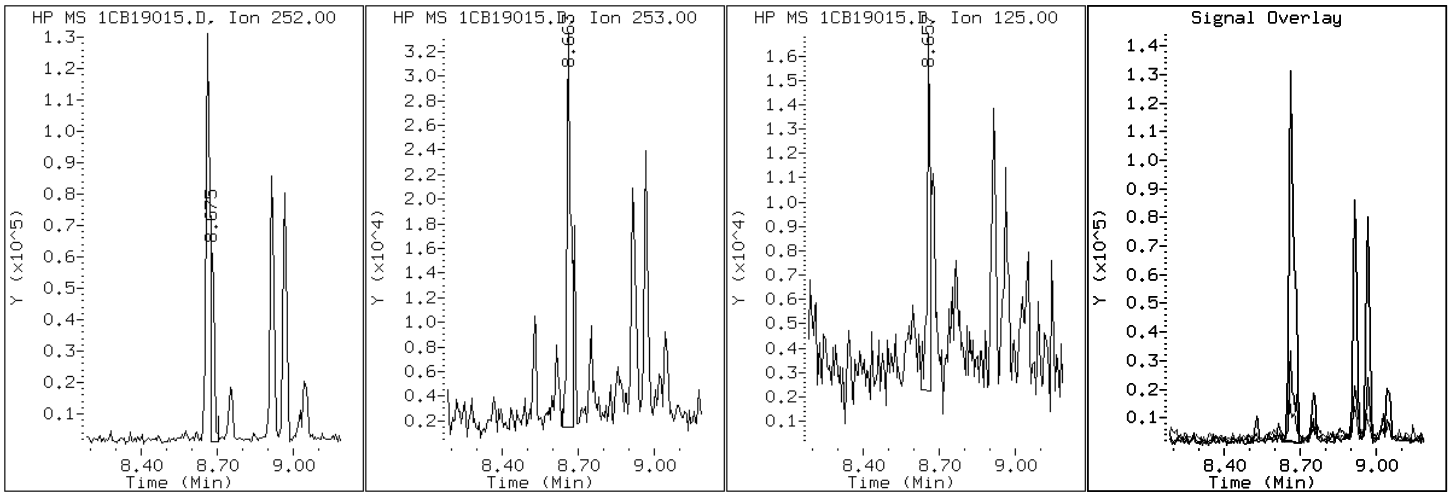
Client ID: CV0748AD-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a

Operator: SCC

21 Benzo(k)fluoranthene



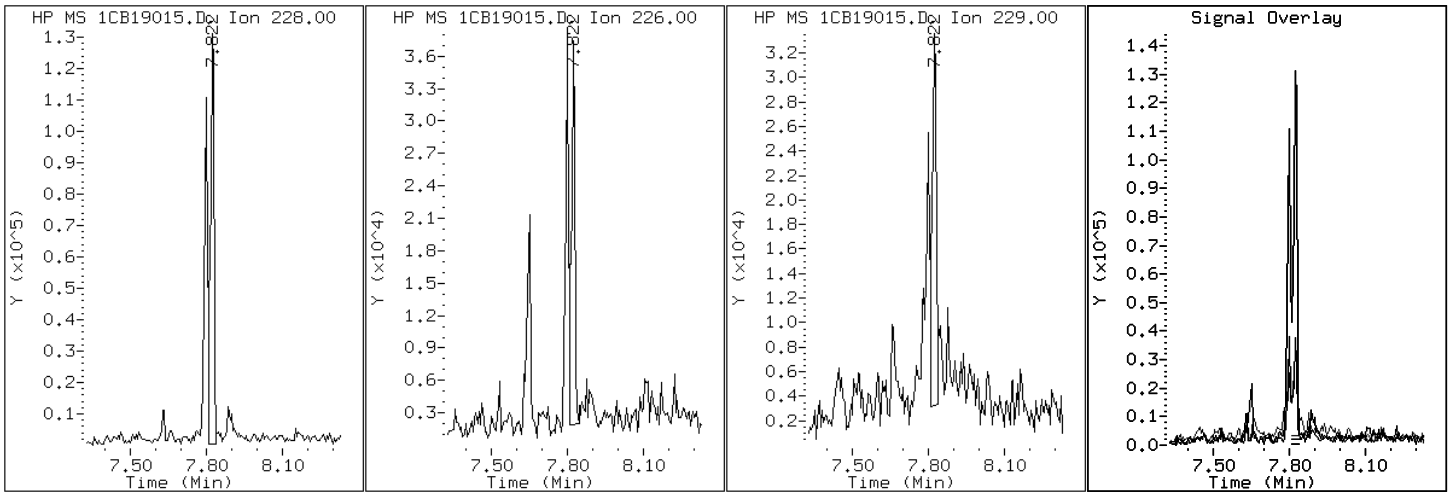
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a Operator: SCC

19 Chrysene



Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

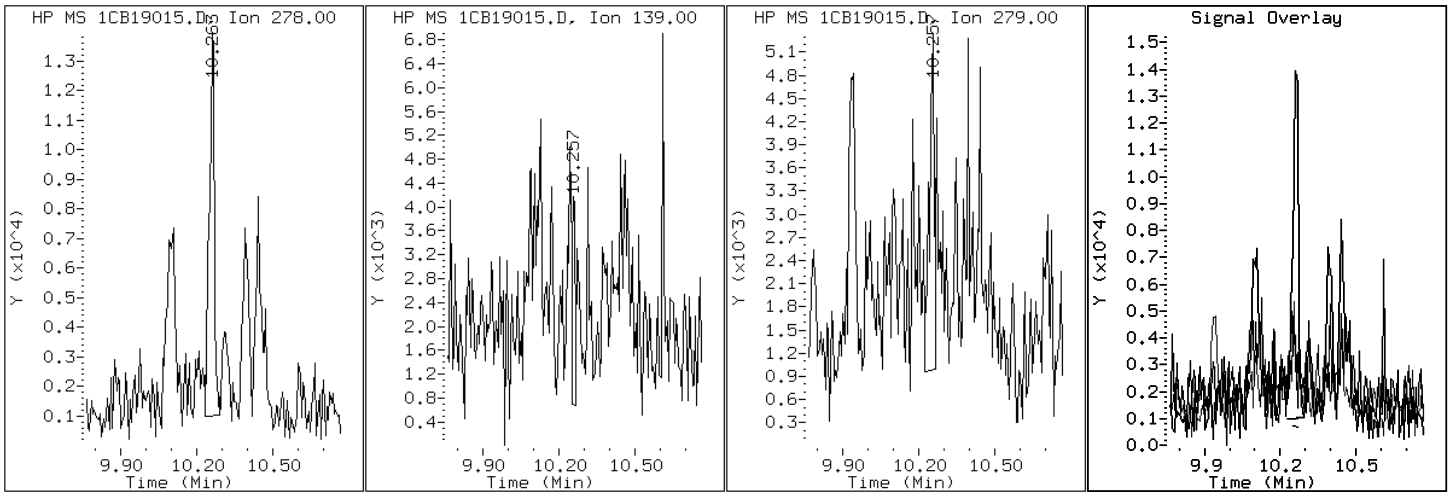
Client ID: CV0748AD-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a

Operator: SCC

25 Dibenzo(a,h)anthracene



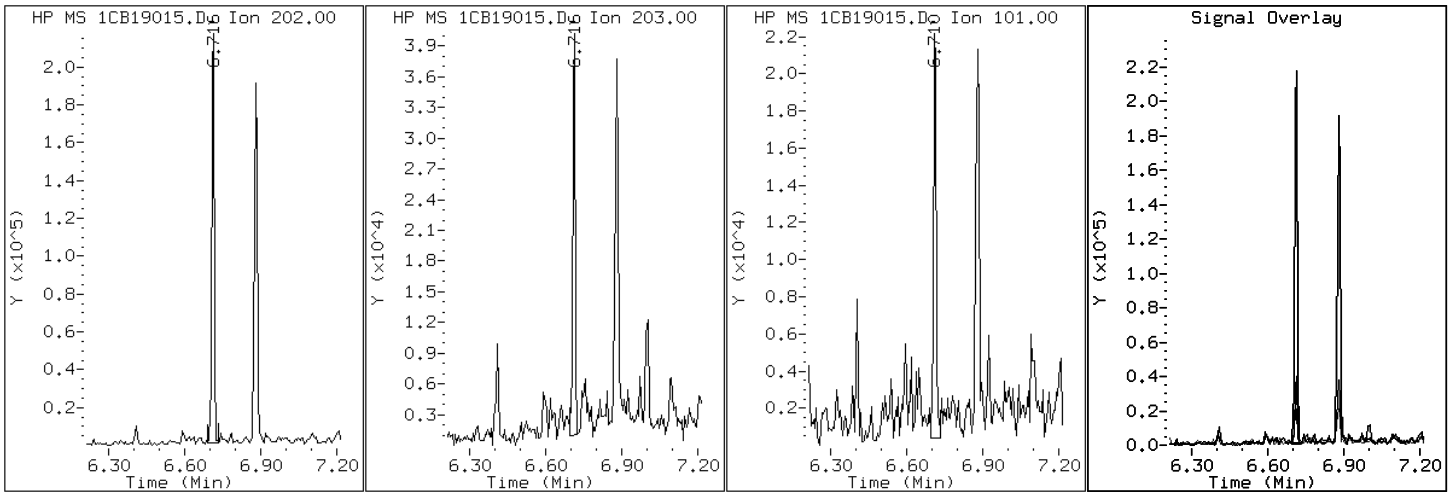
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a Operator: SCC

15 Fluoranthene



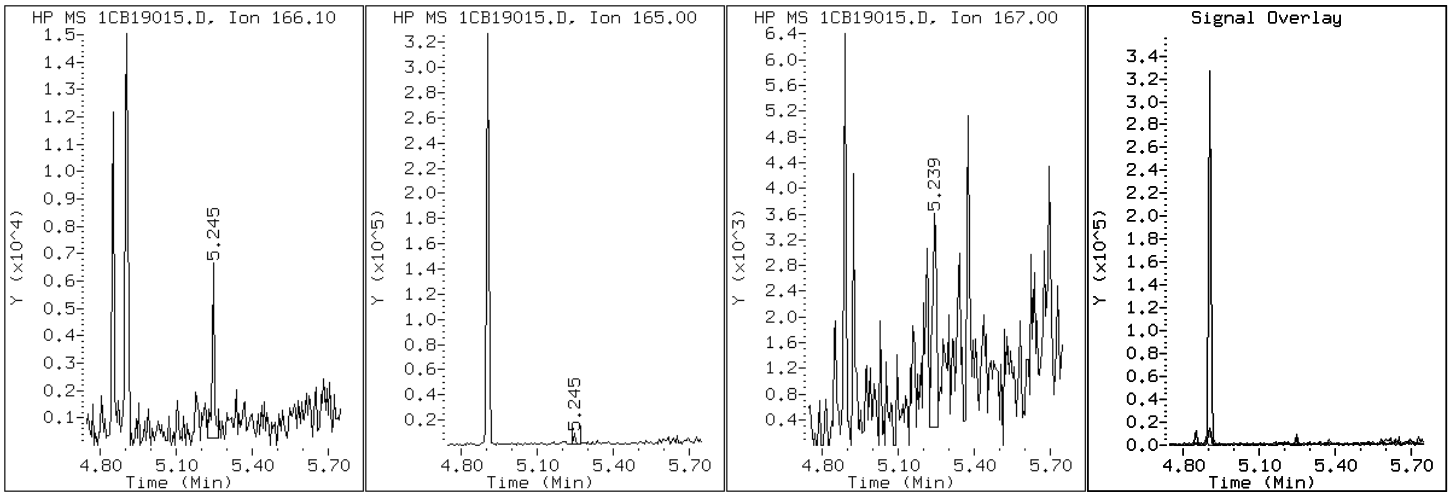
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a Operator: SCC

9 Fluorene



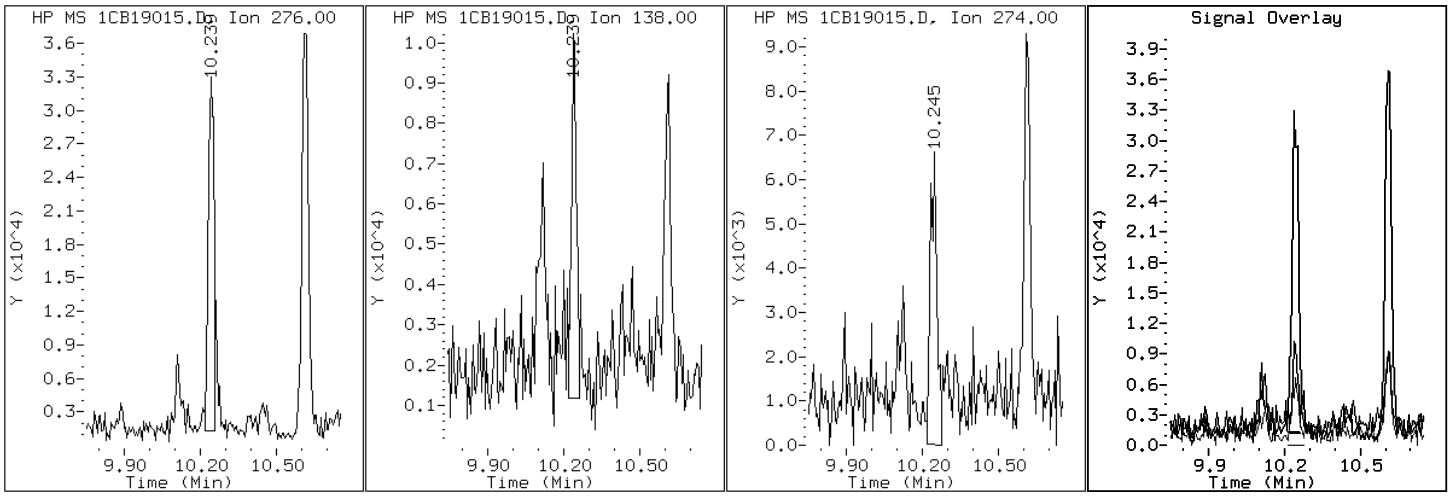
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a Operator: SCC

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



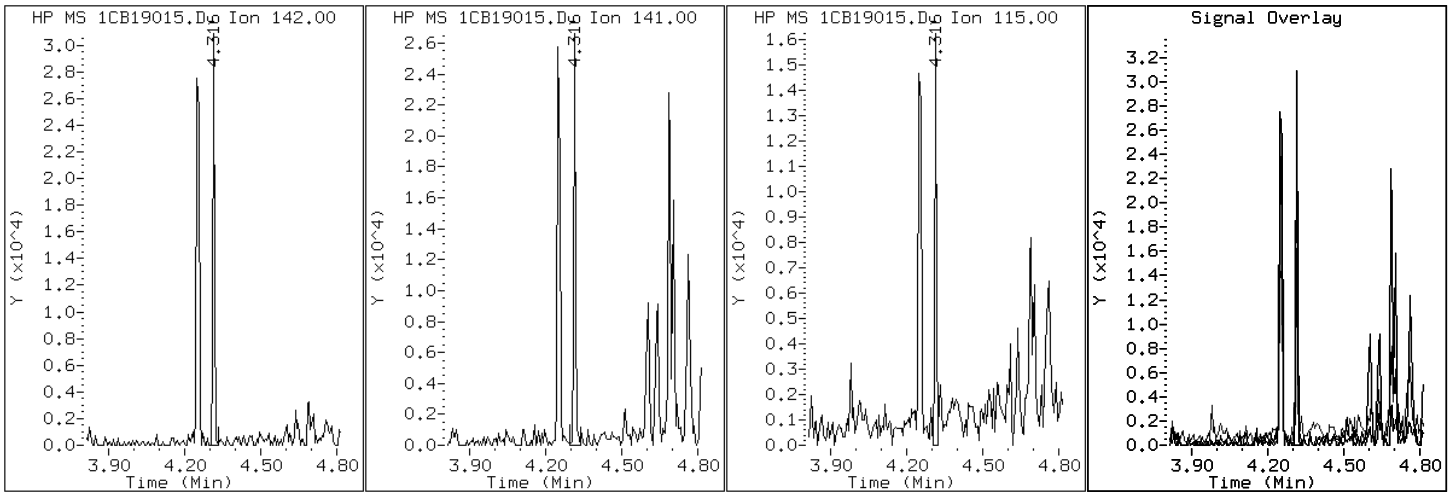
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a Operator: SCC

4 1-Methylnaphthalene



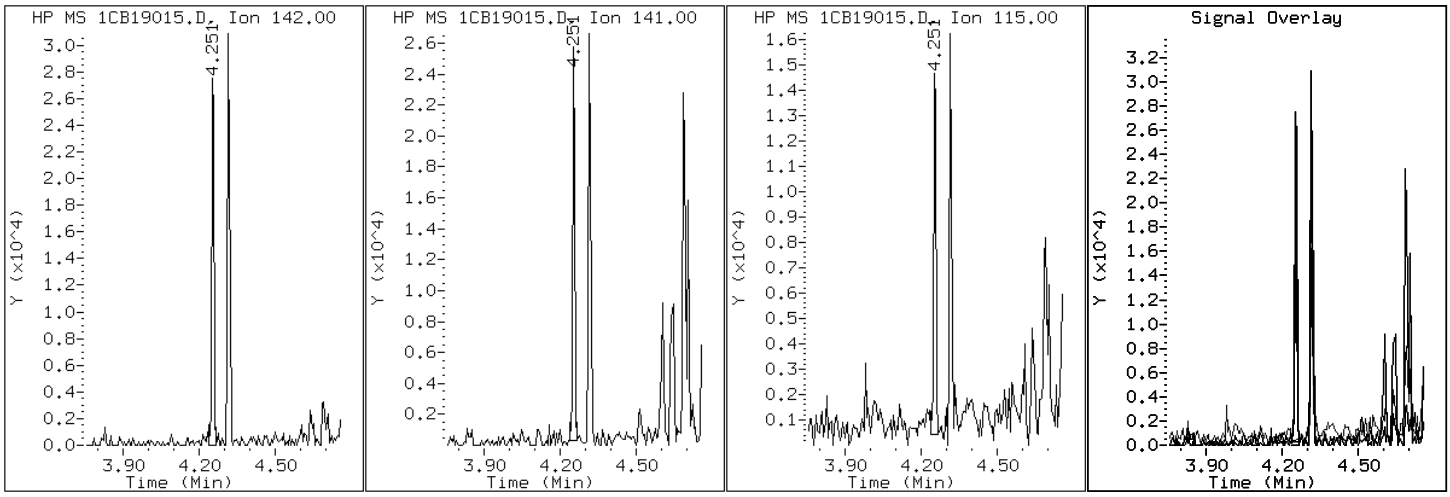
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

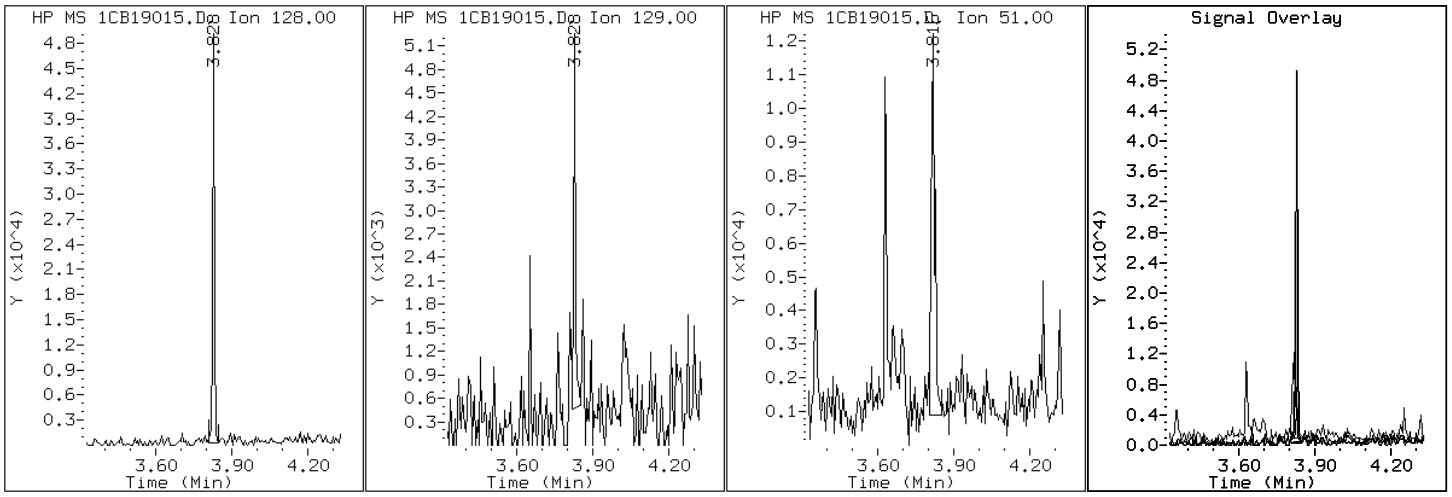
Client ID: CV0748AD-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a

Operator: SCC

2 Naphthalene



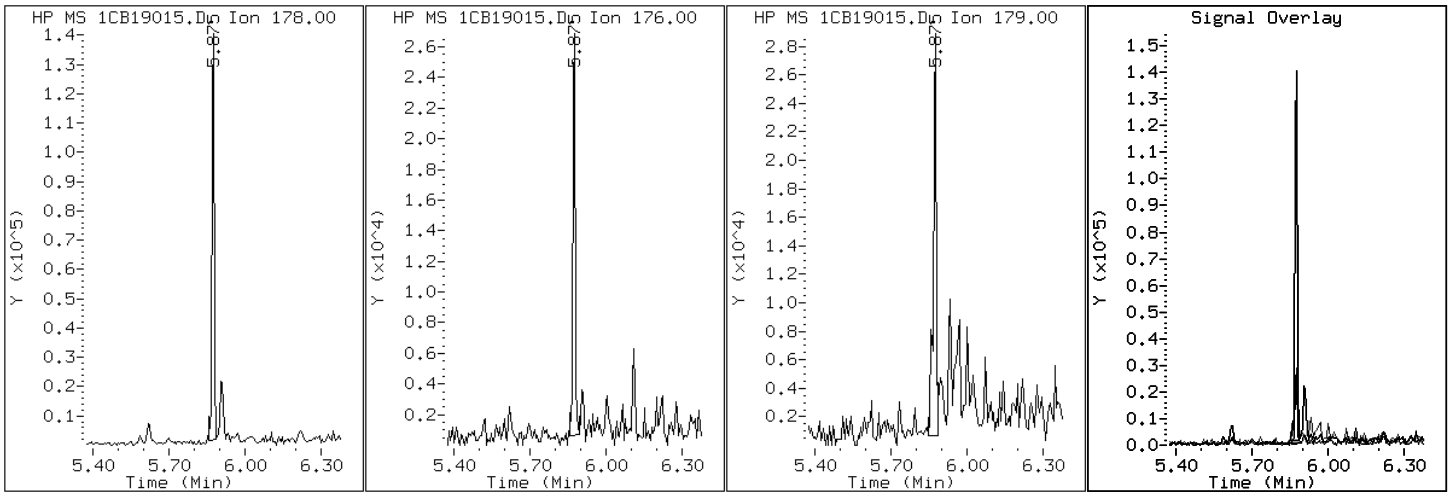
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a | Operator: SCC

11 Phenanthrene



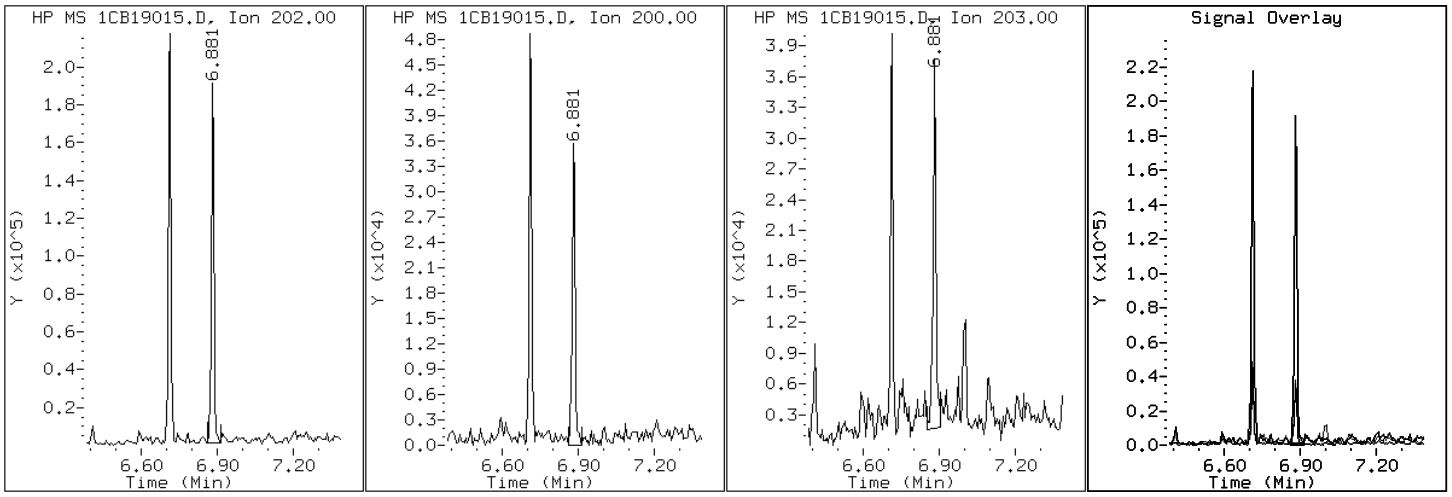
Data File: 1CB19015.D

Date: 19-FEB-2013 17:49

Client ID: CV0748AD-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19015.D
Inj. Date and Time: 19-FEB-2013 17:49
Instrument ID: BSMC5973.i
Client ID: CV0748AD-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

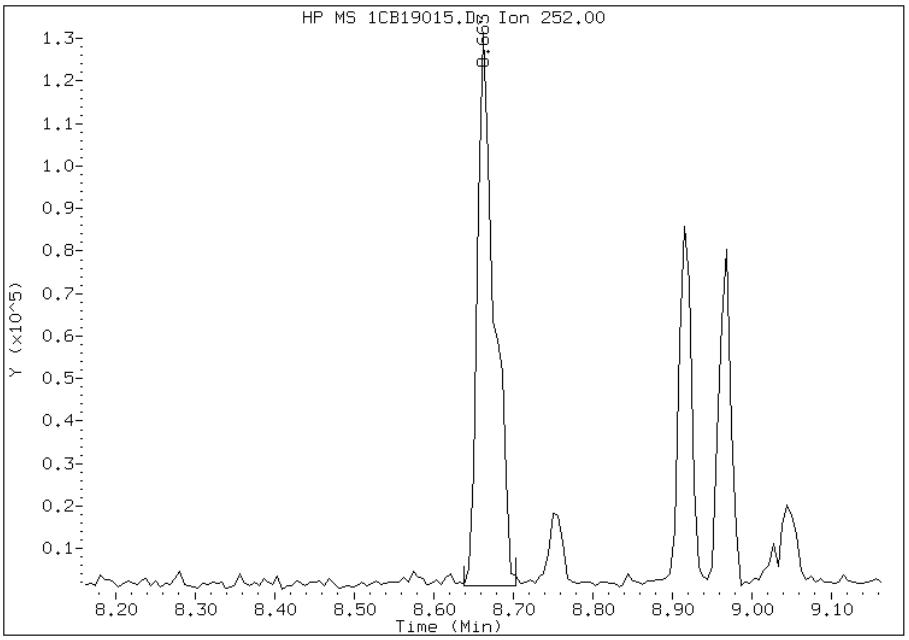
Processing Integration Results

RT: 8.66

Response: 194475

Amount: 3

Conc: 1085



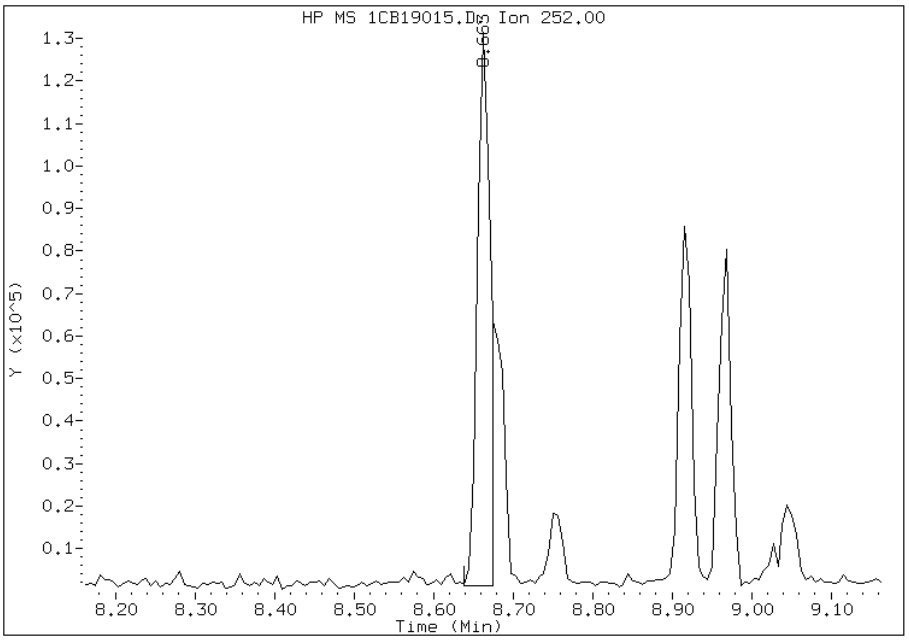
Manual Integration Results

RT: 8.66

Response: 145666

Amount: 2

Conc: 813



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19015.D
Inj. Date and Time: 19-FEB-2013 17:49
Instrument ID: BSMC5973.i
Client ID: CV0748AD-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

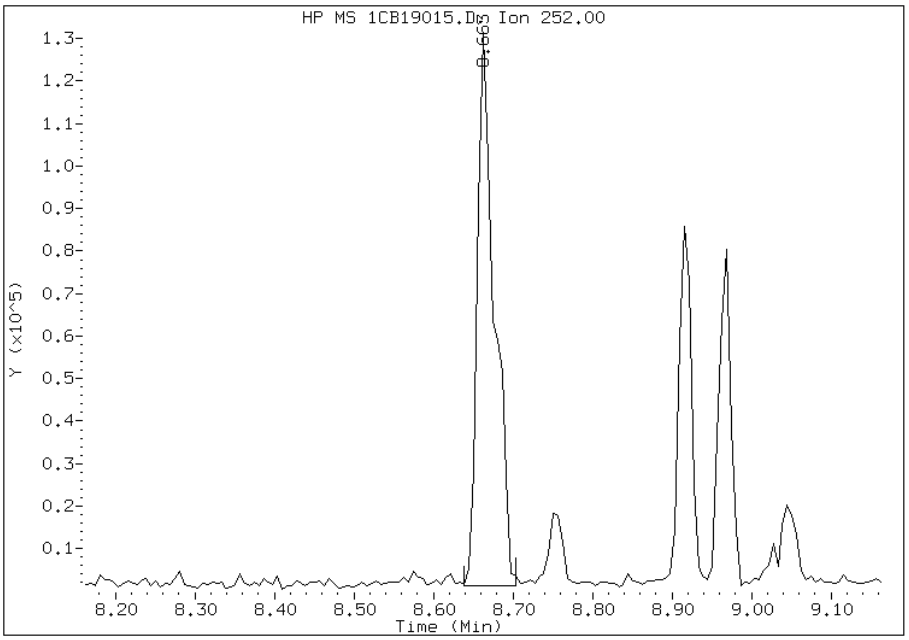
Processing Integration Results

RT: 8.66

Response: 194503

Amount: 3

Conc: 985



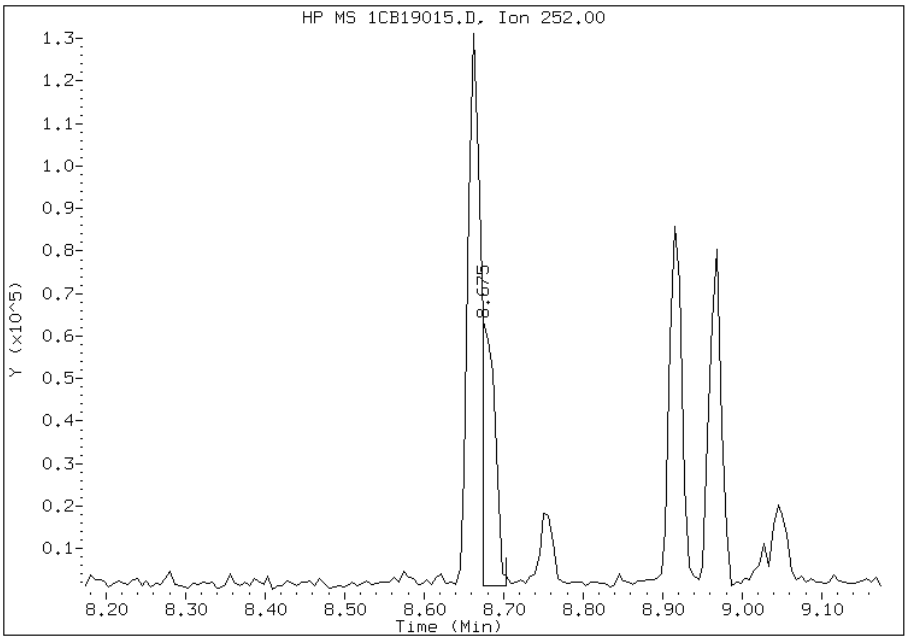
Manual Integration Results

RT: 8.67

Response: 71034

Amount: 1

Conc: 360



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19015.D
Inj. Date and Time: 19-FEB-2013 17:49
Instrument ID: BSMC5973.i
Client ID: CV0748AD-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

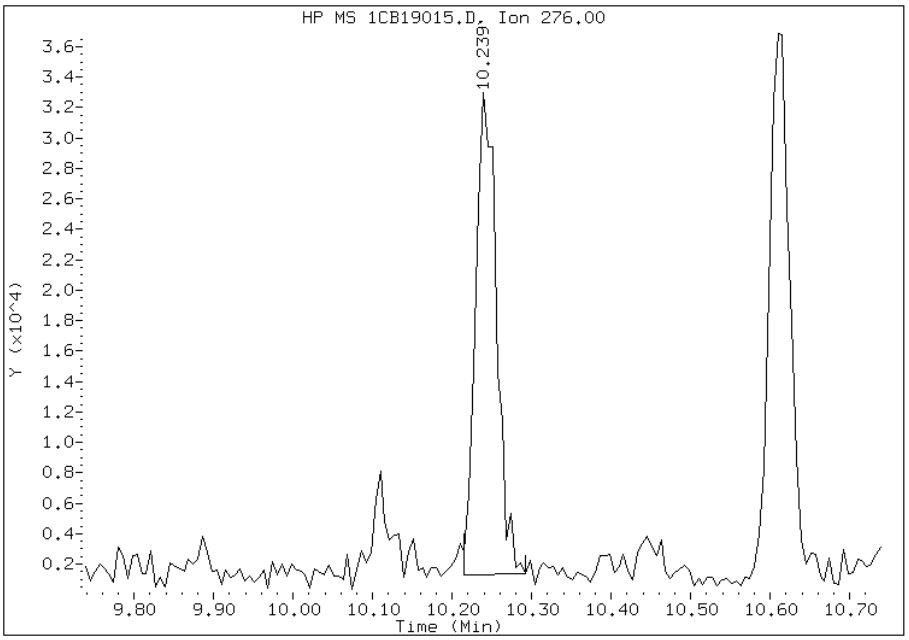
Processing Integration Results

RT: 10.24

Response: 57579

Amount: 1

Conc: 352



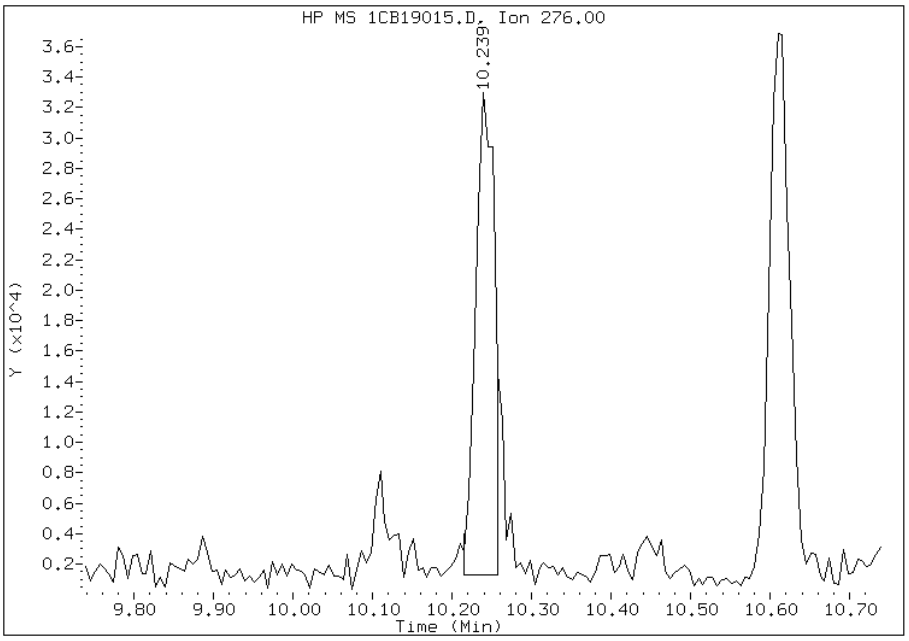
Manual Integration Results

RT: 10.24

Response: 51410

Amount: 1

Conc: 314



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748AE-GS | Lab Sample ID: 680-87320-22

Matrix: Solid | Lab File ID: 1CB19018.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 15:30

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 14.94(g) | Date Analyzed: 02/19/2013 18:44

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

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

% Moisture: 28.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	560	U	560	110
208-96-8	Acenaphthylene	77	J	220	28
120-12-7	Anthracene	220		47	24
56-55-3	Benzo[a]anthracene	870		45	22
50-32-8	Benzo[a]pyrene	870		58	29
205-99-2	Benzo[b]fluoranthene	1500		69	34
191-24-2	Benzo[g,h,i]perylene	680		110	25
207-08-9	Benzo[k]fluoranthene	470		45	20
218-01-9	Chrysene	1100		51	25
53-70-3	Dibenz(a,h)anthracene	200		110	23
206-44-0	Fluoranthene	1500		110	22
86-73-7	Fluorene	81	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	490		110	40
90-12-0	1-Methylnaphthalene	310		220	25
91-57-6	2-Methylnaphthalene	350		220	40
91-20-3	Naphthalene	300		220	25
85-01-8	Phenanthrene	1000		45	22
129-00-0	Pyrene	1500		110	21

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19018.D
Lab Smp Id: 680-87320-A-22-A Client Smp ID: CV0748AE-GS
Inj Date : 19-FEB-2013 18:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-22-a
Misc Info : 680-87320-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 18
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	28.575	% 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	3.815	3.816	(1.000)	2088671	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1664431	40.0000	
* 10 Phenanthrene-d10	188	5.856	5.857	(1.000)	2854658	40.0000	
$ 14 o-Terphenyl	230	6.109	6.110	(1.043)	95283	2.27801	853.9116
* 18 Chrysene-d12	240	7.803	7.809	(1.000)	2795540	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2624693	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	44583	0.80552	301.9476
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	33530	0.93170	349.2472
4 1-Methylnaphthalene	142	4.315	4.316	(1.131)	27254	0.83268	312.1285
5 Acenaphthylene	152	4.815	4.816	(0.982)	13629	0.20582	77.1515
9 Fluorene	166	5.245	5.245	(1.070)	11527	0.21622	81.0498
11 Phenanthrene	178	5.874	5.874	(1.003)	237486	2.78708	1044.7356
12 Anthracene	178	5.904	5.910	(1.008)	44182	0.57550	215.7267
13 Carbazole	167	6.015	6.015	(1.027)	32764	0.49132	184.1728

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	336463	4.04103	1514.7794
16 Pyrene	202	6.886	6.886	(0.882)	292296	3.92744	1472.1981
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	179467	2.32799	872.6469
19 Chrysene	228	7.827	7.827	(1.003)	225563	2.83261	1061.8027
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	255295	3.96736	1487.1612(M)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	88309	1.24570	466.9493(QM)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	142179	2.32199	870.3958
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.251	(1.136)	76487	1.30054	487.5074(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	29547	0.53276	199.7041
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.176)	107861	1.80548	676.7834

QC Flag Legend

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

Data File: 1CB19018.D

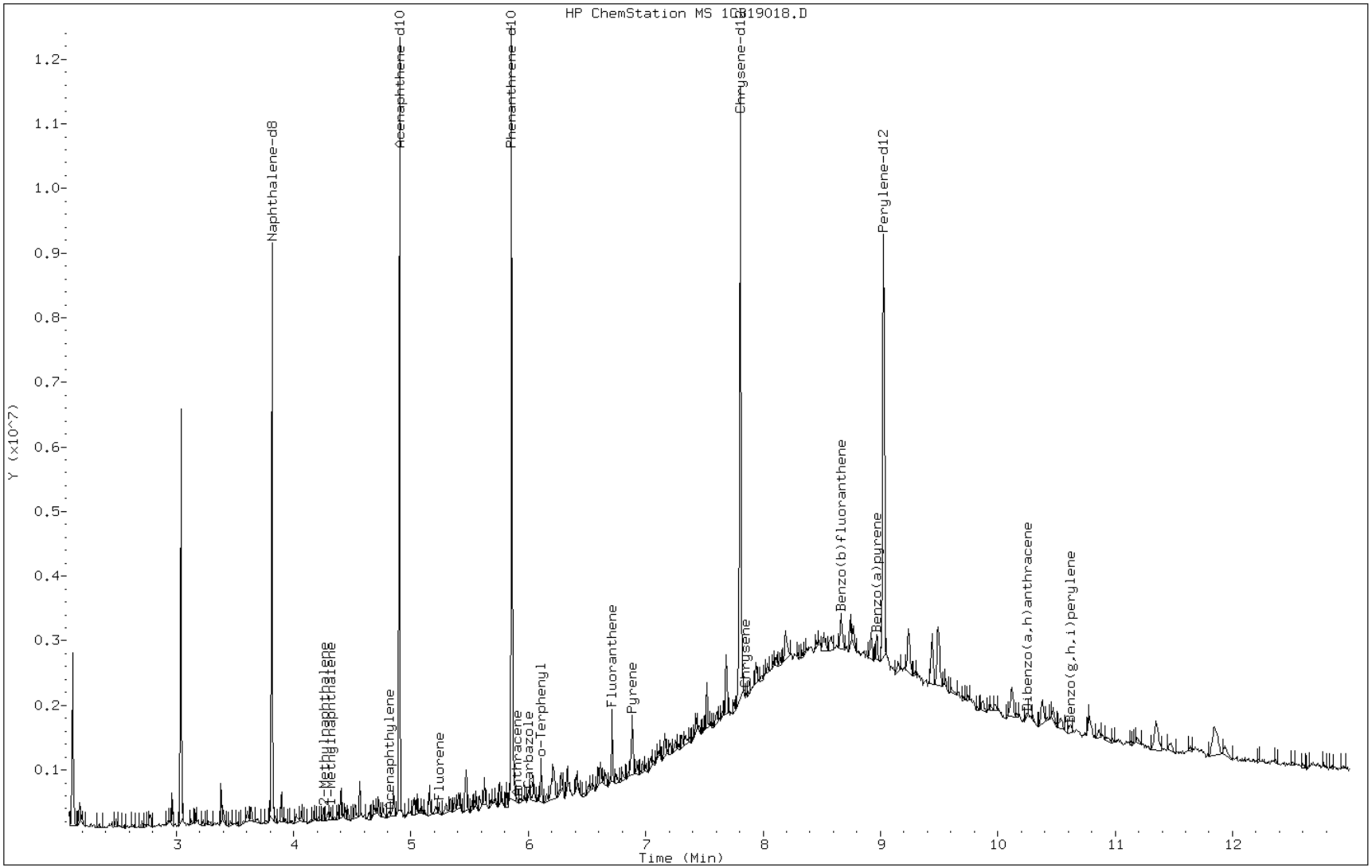
Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a

Operator: SCC



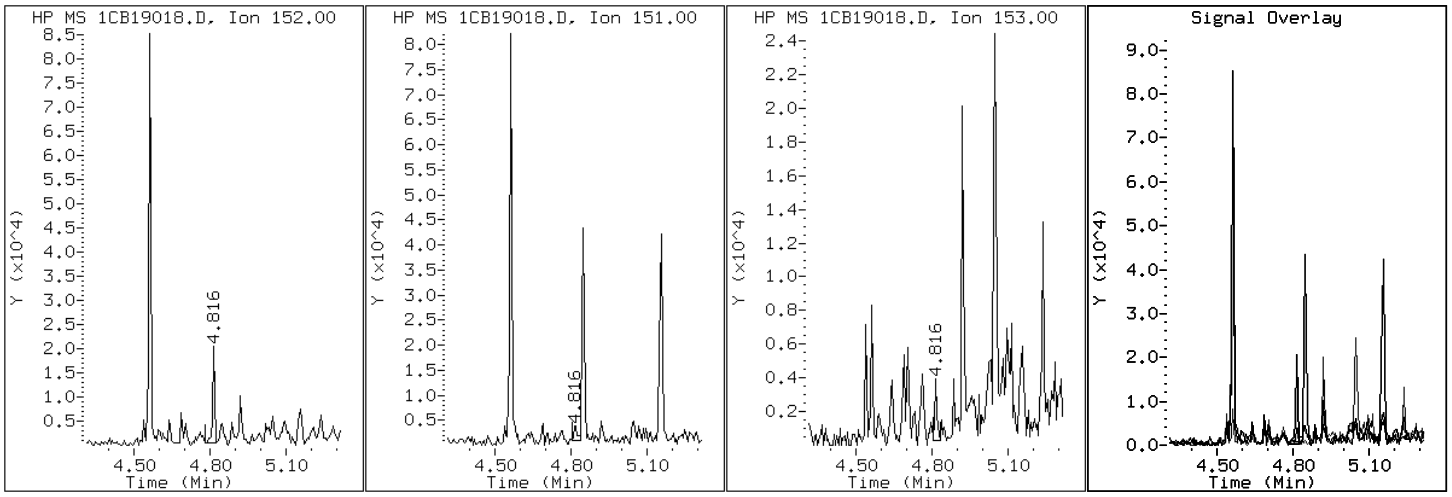
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a Operator: SCC

5 Acenaphthylene



Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

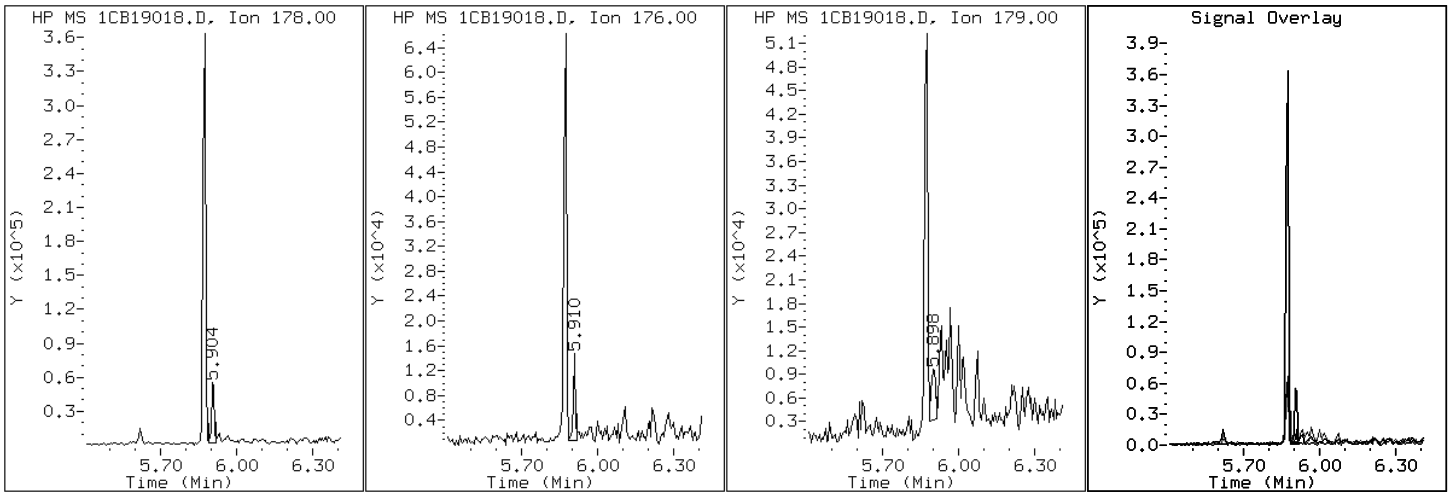
Client ID: CV0748AE-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a

Operator: SCC

12 Anthracene



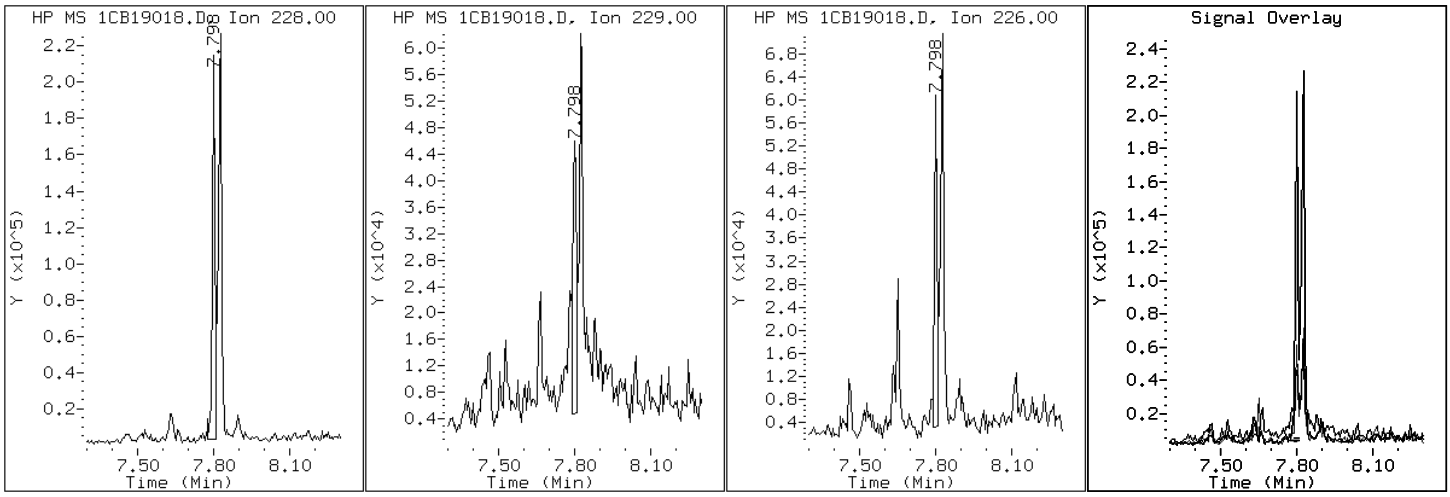
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a Operator: SCC

17 Benzo(a)anthracene



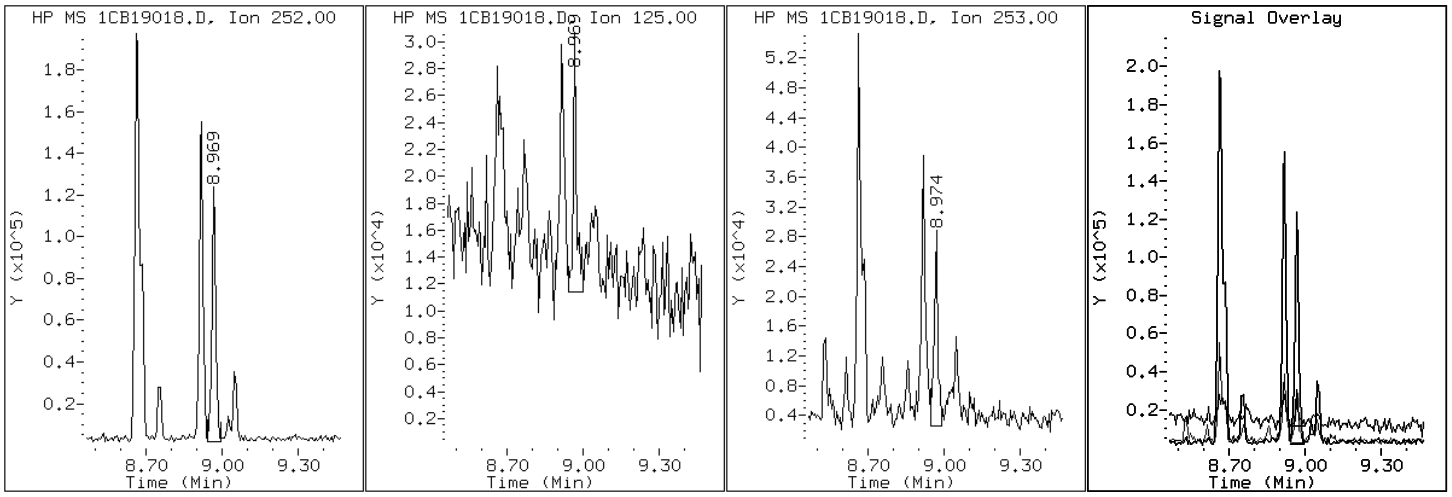
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a Operator: SCC

22 Benzo(a)pyrene



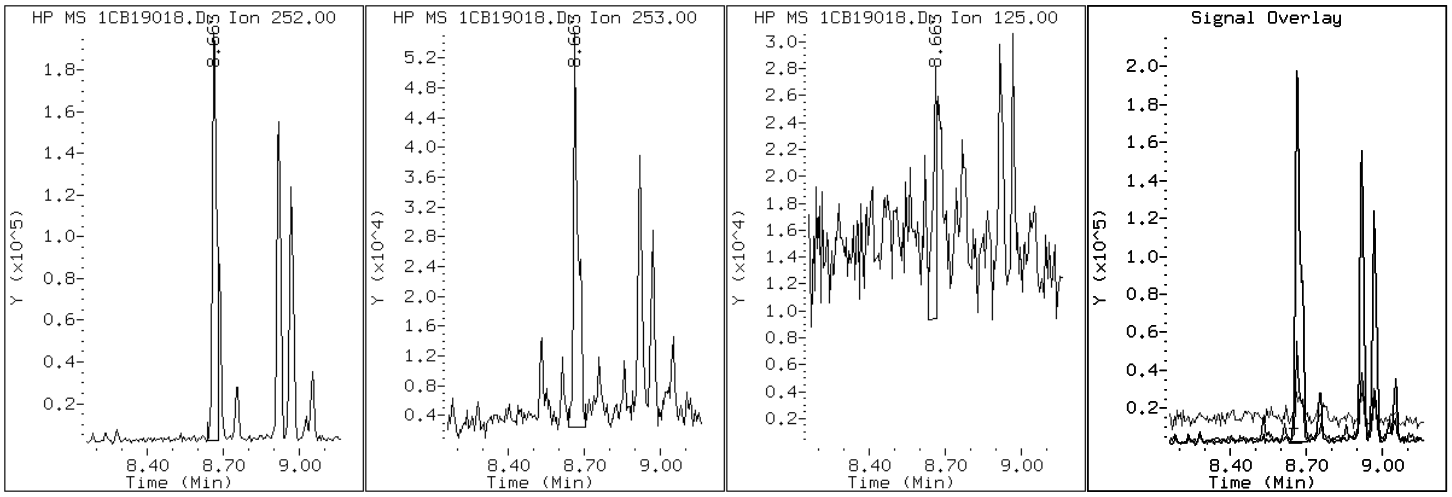
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a Operator: SCC

20 Benzo(b)fluoranthene



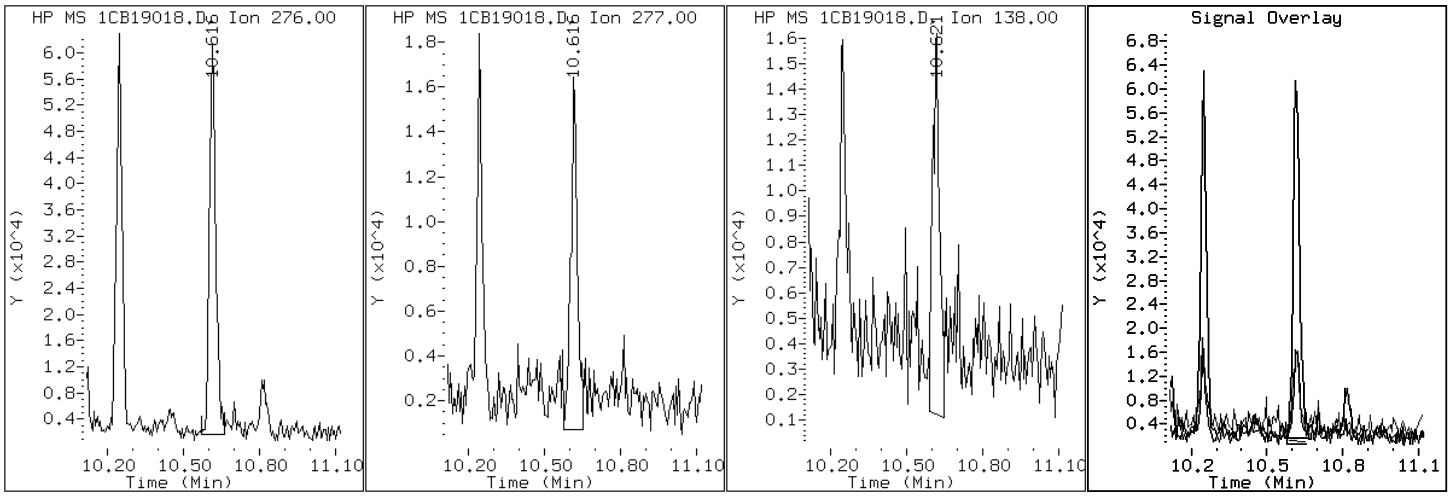
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a Operator: SCC

26 Benzo(g,h,i)perylene



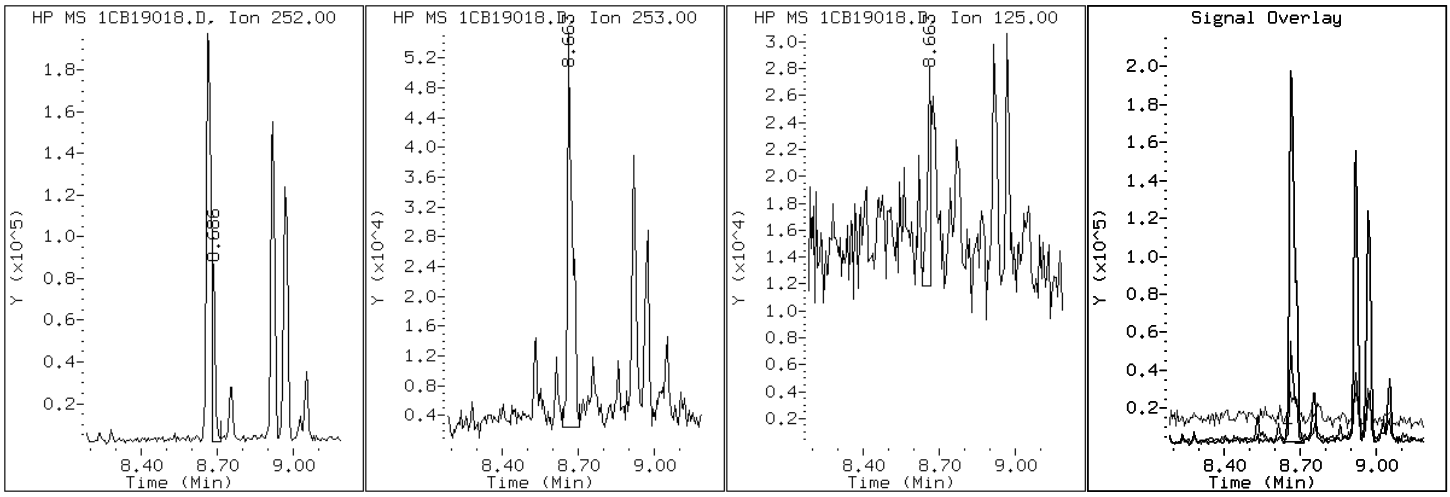
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a | Operator: SCC

21 Benzo(k)fluoranthene



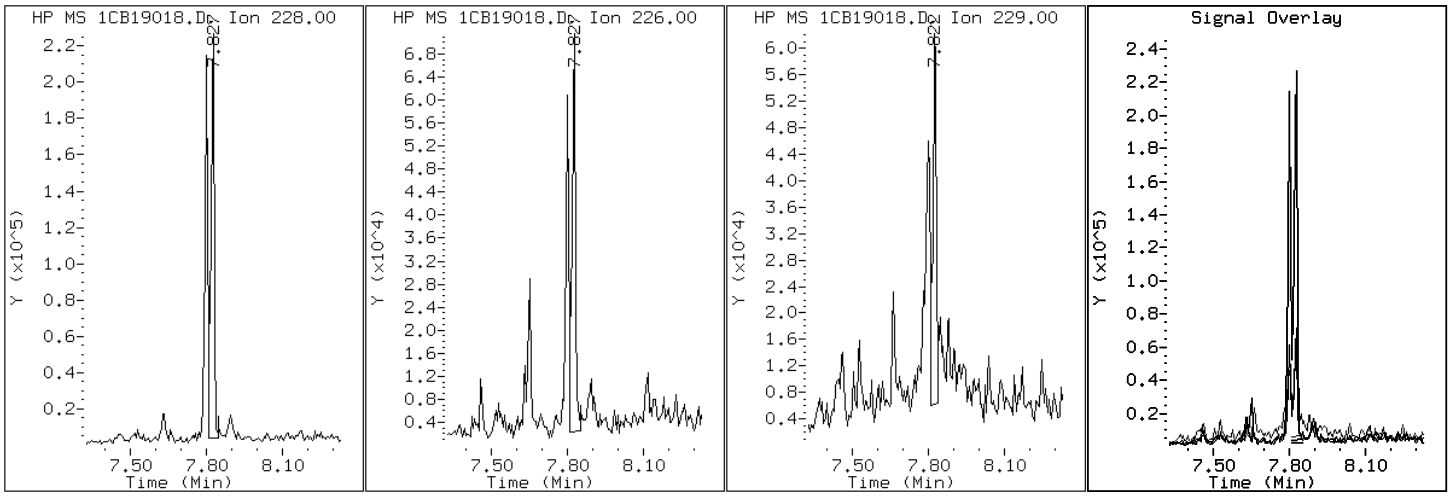
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a Operator: SCC

19 Chrysene



Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

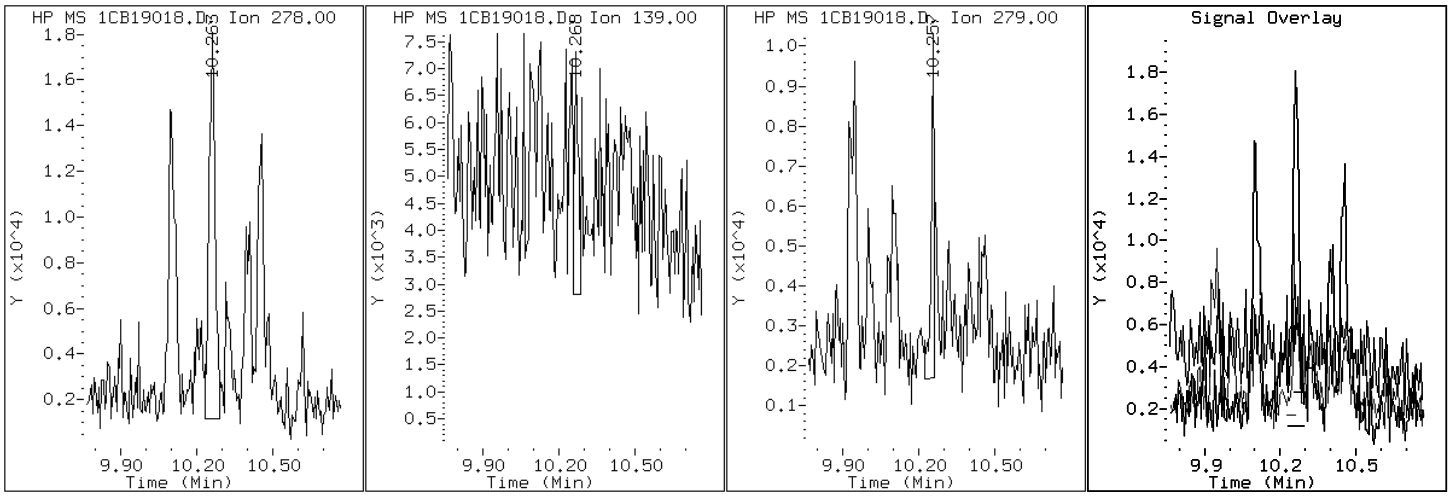
Client ID: CV0748AE-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a

Operator: SCC

25 Dibenzo(a,h)anthracene



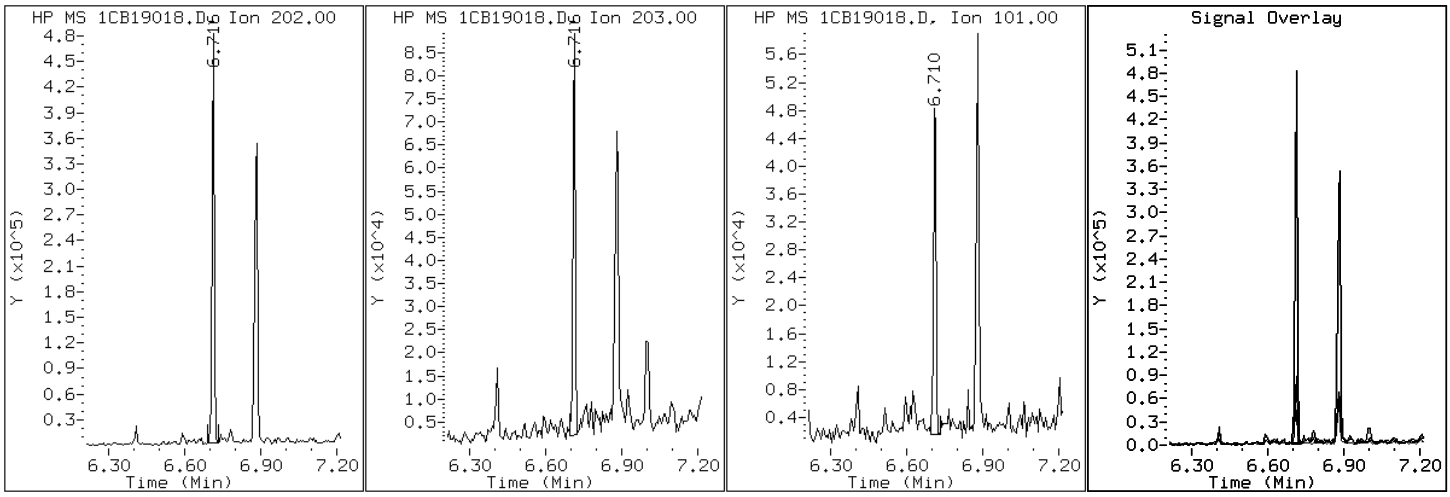
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a Operator: SCC

15 Fluoranthene



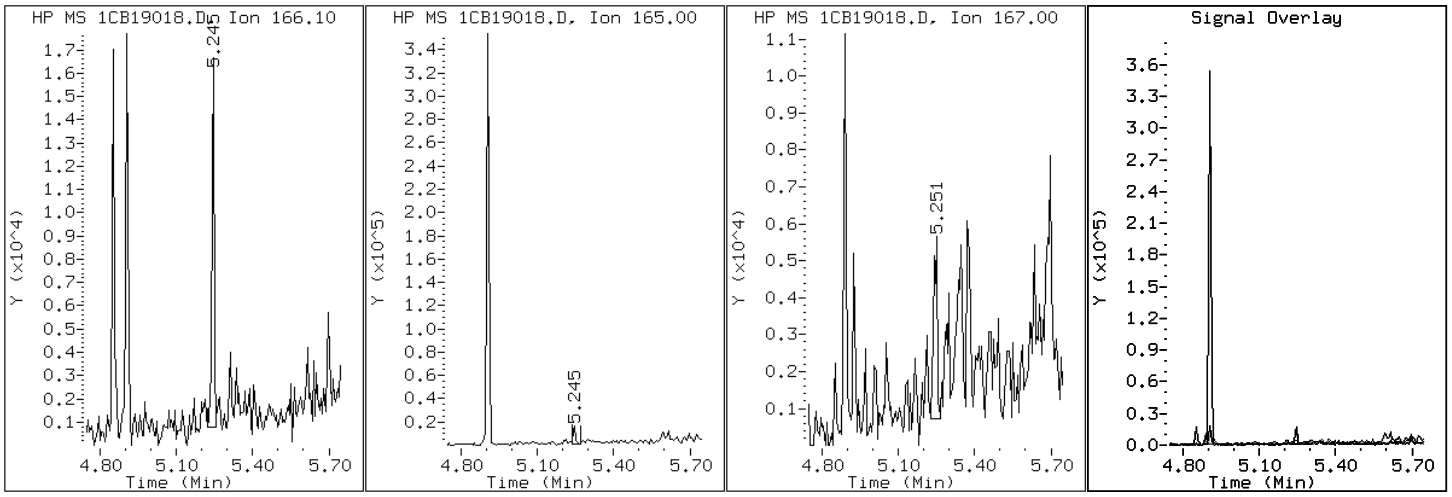
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a Operator: SCC

9 Fluorene



Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

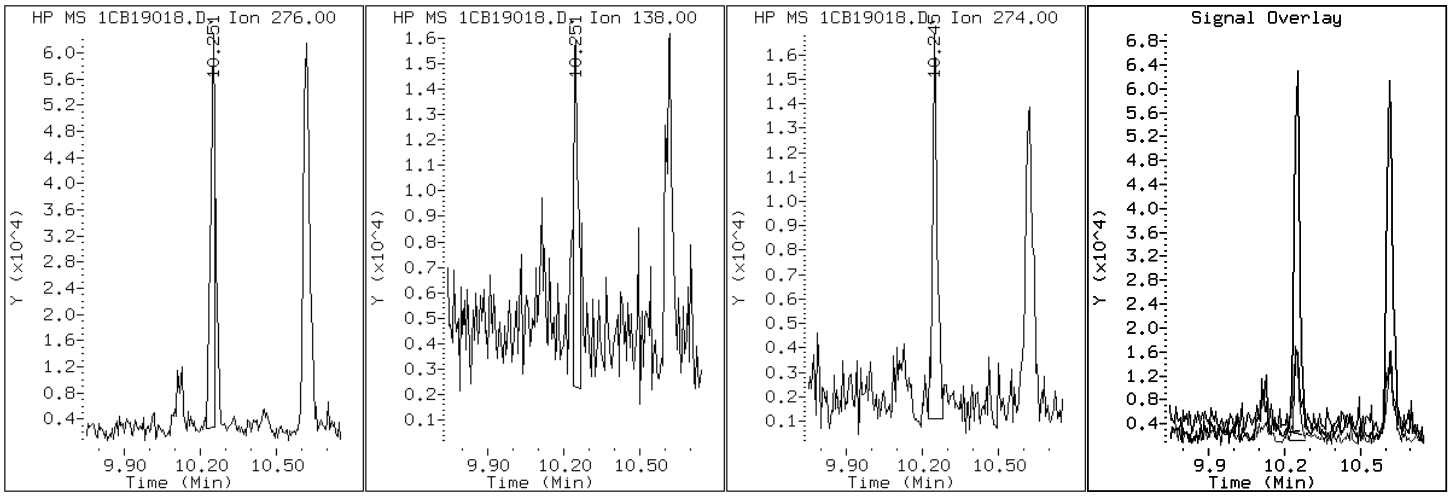
Client ID: CV0748AE-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a

Operator: SCC

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



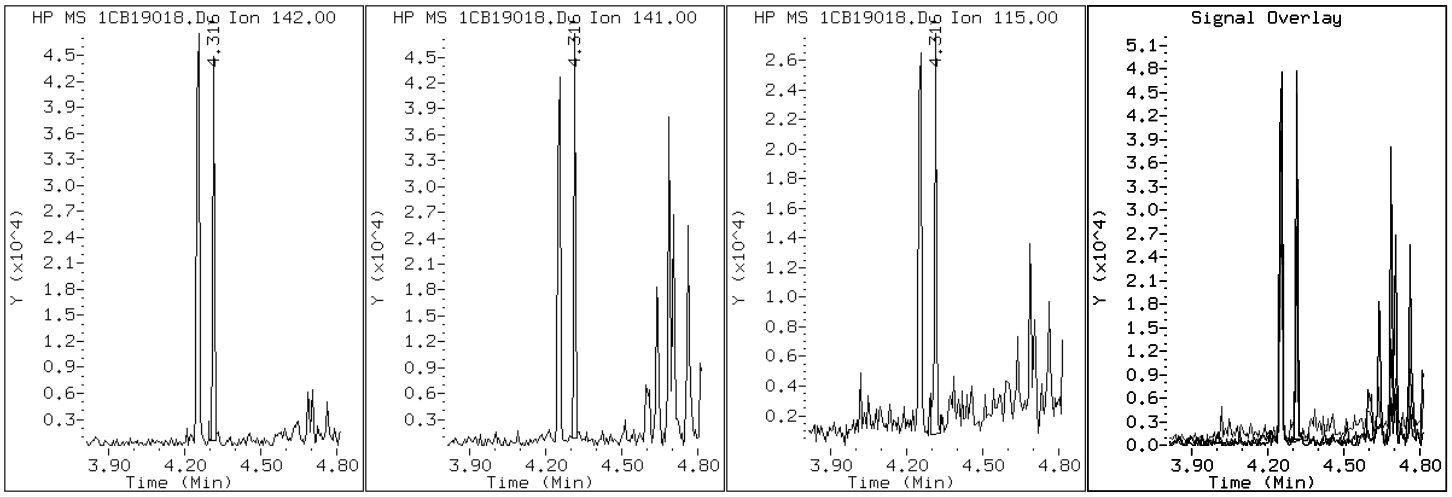
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a Operator: SCC

4 1-Methylnaphthalene



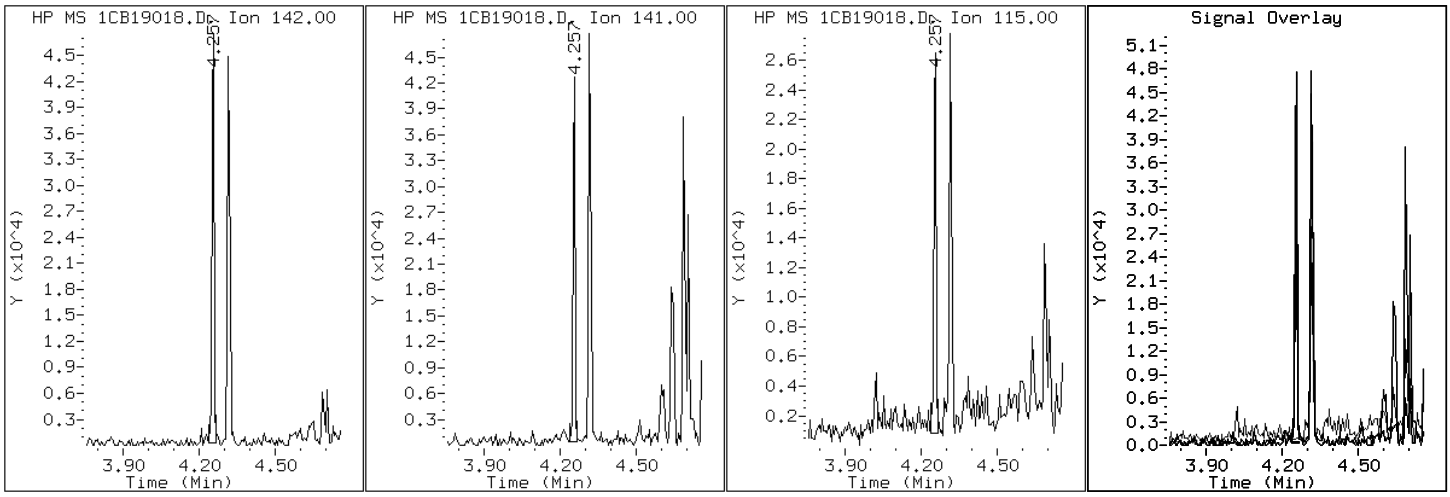
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a Operator: SCC

3 2-Methylnaphthalene



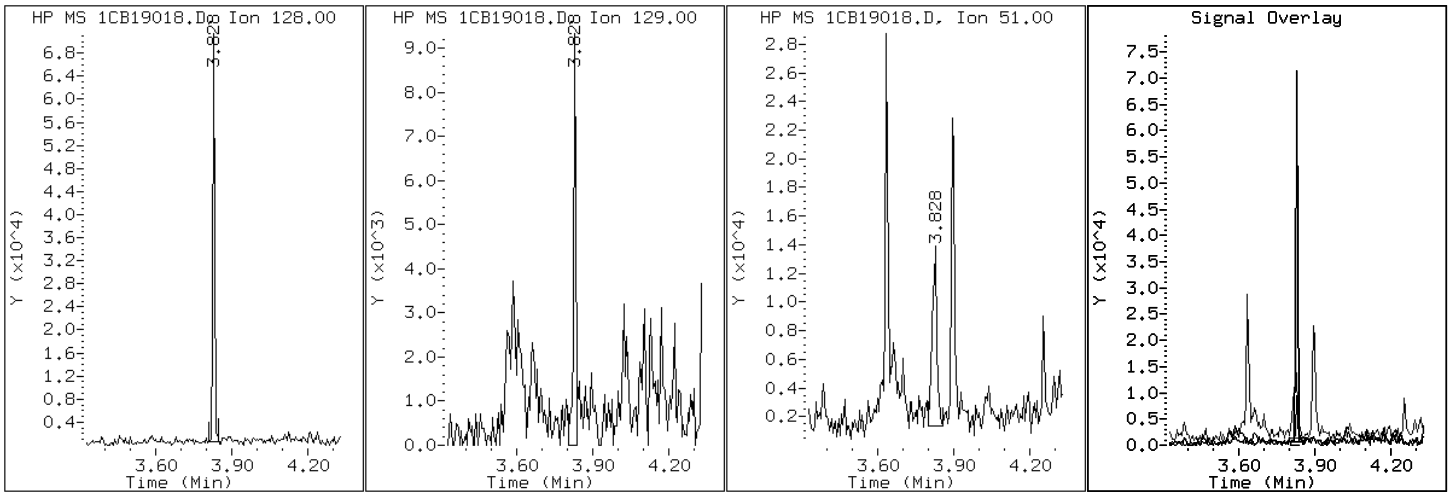
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a Operator: SCC

2 Naphthalene



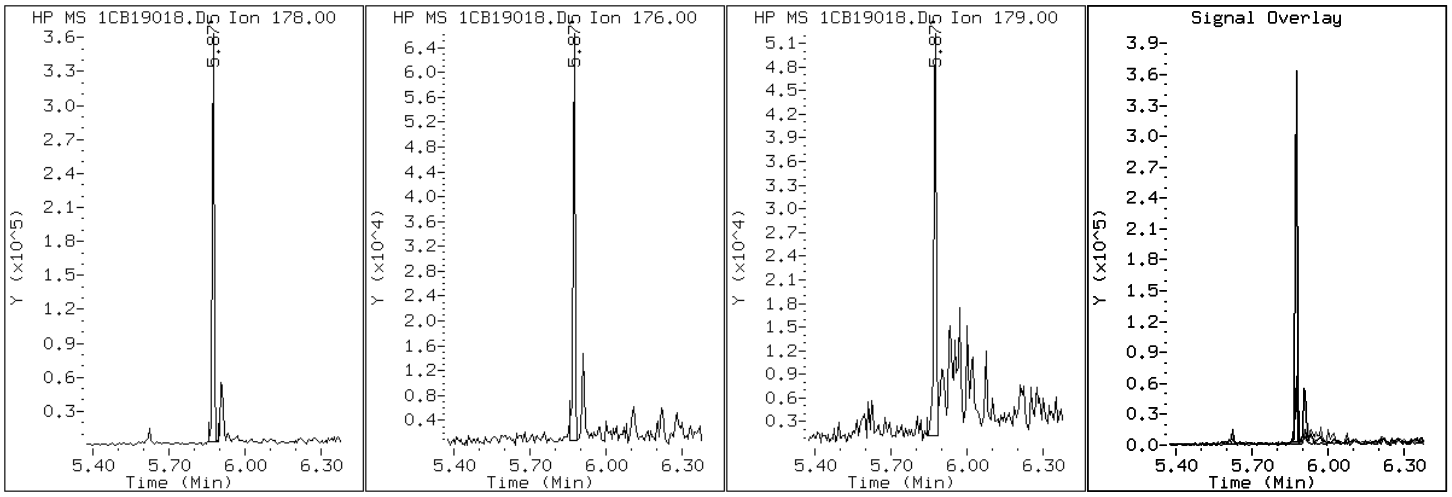
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a | Operator: SCC

11 Phenanthrene



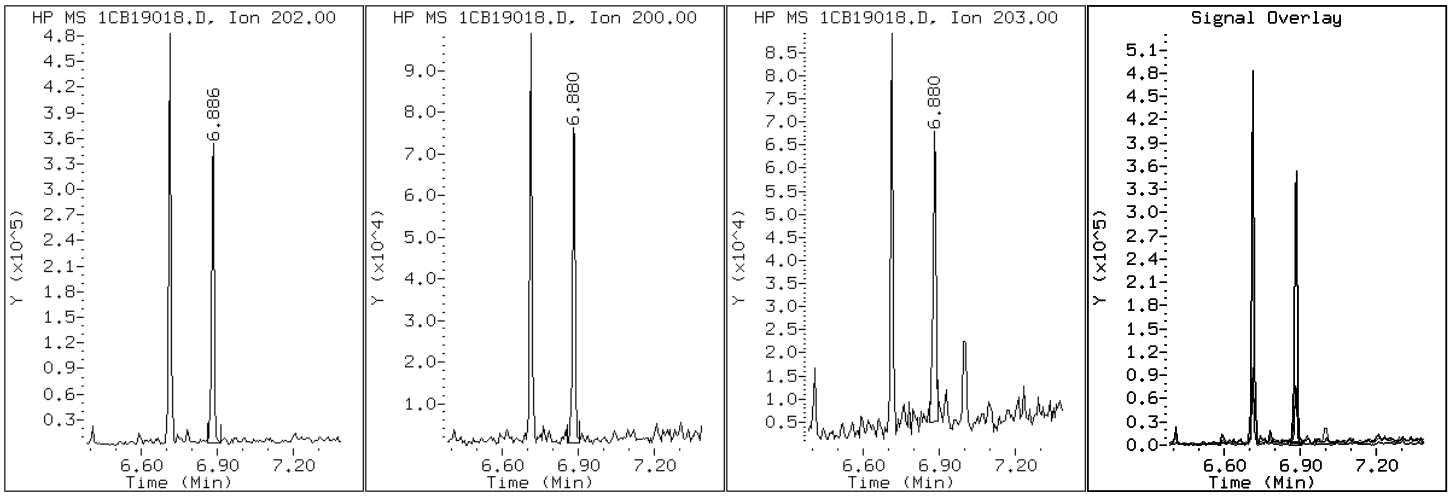
Data File: 1CB19018.D

Date: 19-FEB-2013 18:44

Client ID: CV0748AE-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-22-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19018.D
Inj. Date and Time: 19-FEB-2013 18:44
Instrument ID: BSMC5973.i
Client ID: CV0748AE-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

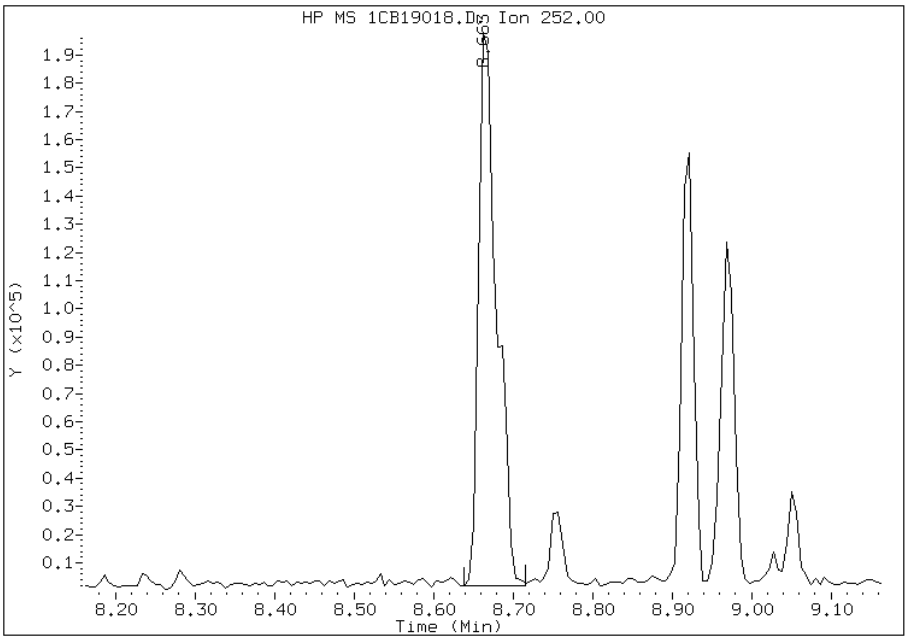
Processing Integration Results

RT: 8.66

Response: 313158

Amount: 5

Conc: 1824



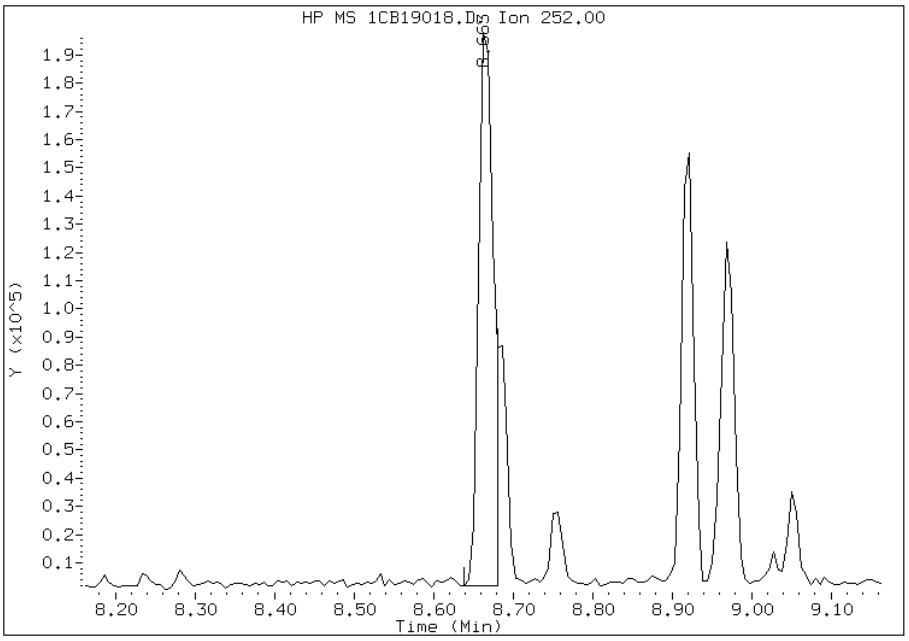
Manual Integration Results

RT: 8.66

Response: 255295

Amount: 4

Conc: 1487



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:40
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19018.D
Inj. Date and Time: 19-FEB-2013 18:44
Instrument ID: BSMC5973.i
Client ID: CV0748AE-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

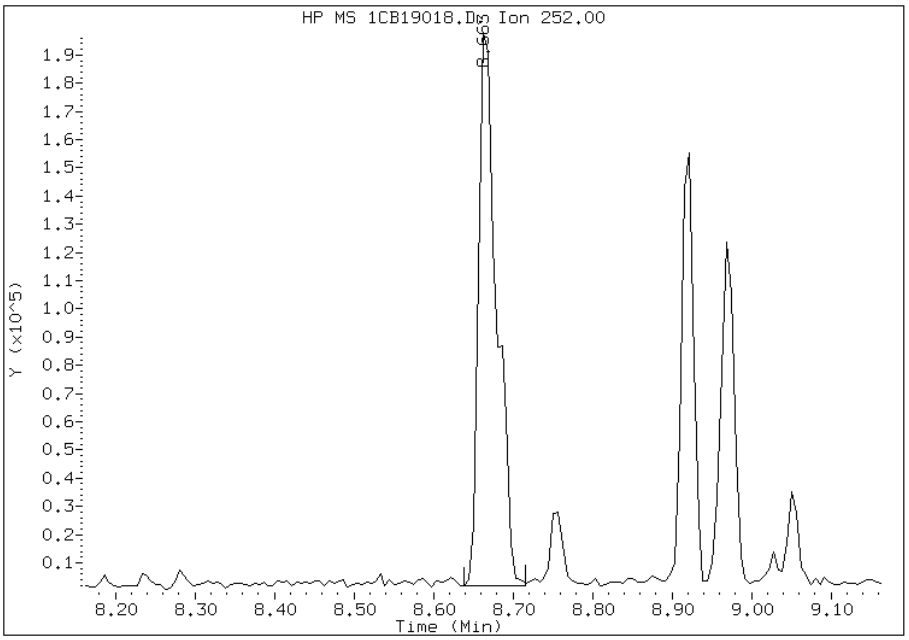
Processing Integration Results

RT: 8.66

Response: 313158

Amount: 4

Conc: 1656



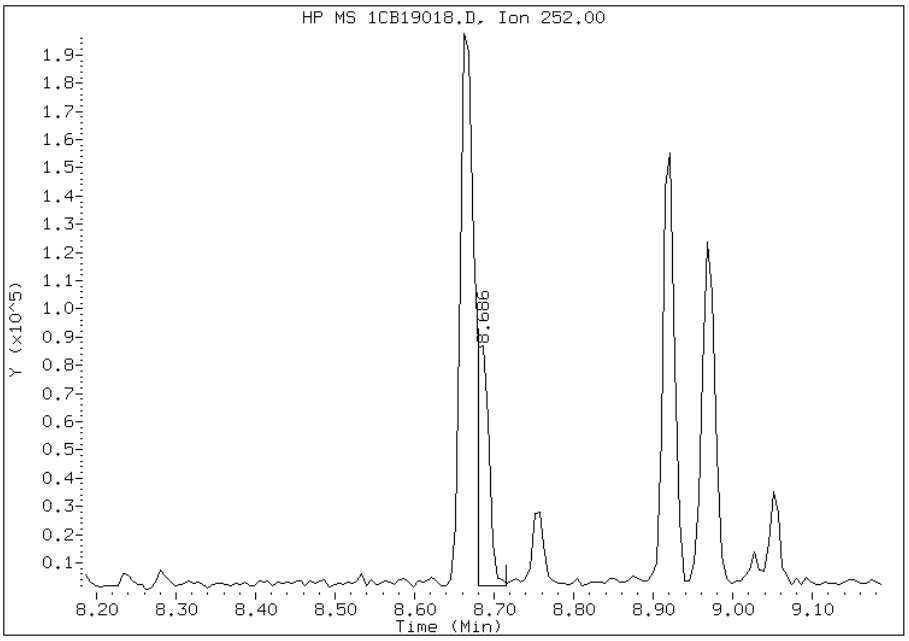
Manual Integration Results

RT: 8.69

Response: 88309

Amount: 1

Conc: 467



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19018.D
Inj. Date and Time: 19-FEB-2013 18:44
Instrument ID: BSMC5973.i
Client ID: CV0748AE-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

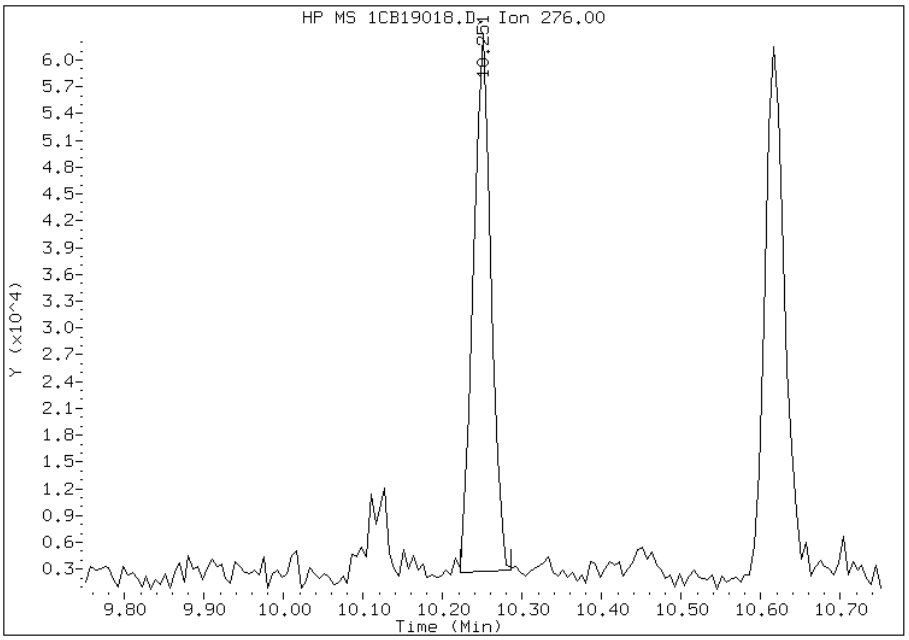
Processing Integration Results

RT: 10.25

Response: 91904

Amount: 2

Conc: 586



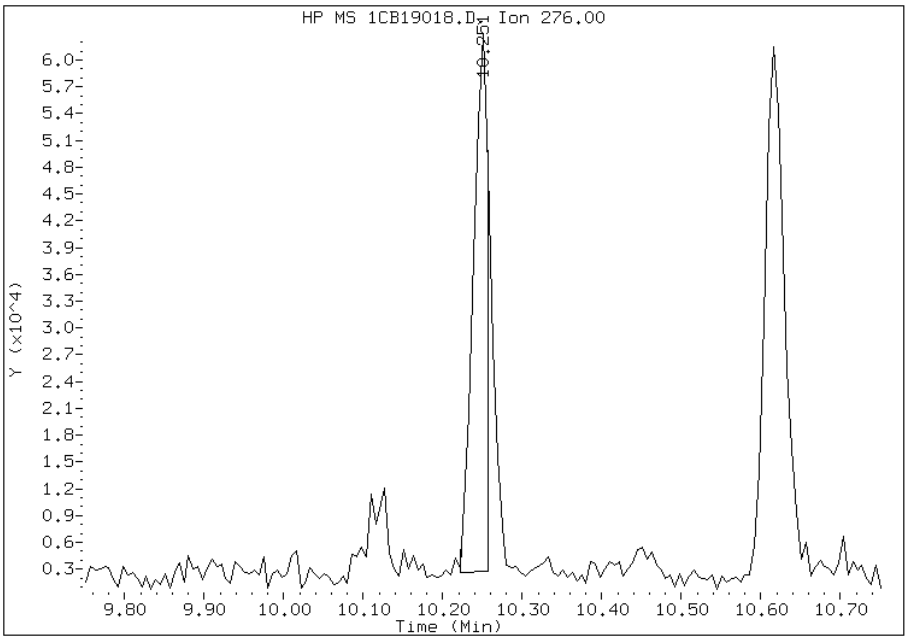
Manual Integration Results

RT: 10.25

Response: 76487

Amount: 1

Conc: 488



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748RR-CS | Lab Sample ID: 680-87320-23

Matrix: Solid | Lab File ID: 1CB19019.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 13:03

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 15.13(g) | Date Analyzed: 02/19/2013 19:02

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

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

% Moisture: 27.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	96	J	220	27
120-12-7	Anthracene	55		46	23
56-55-3	Benzo[a]anthracene	450		43	21
50-32-8	Benzo[a]pyrene	400		57	28
205-99-2	Benzo[b]fluoranthene	690		66	33
191-24-2	Benzo[g,h,i]perylene	290		110	24
207-08-9	Benzo[k]fluoranthene	300		43	20
218-01-9	Chrysene	530		49	24
53-70-3	Dibenz(a,h)anthracene	88	J	110	22
206-44-0	Fluoranthene	690		110	22
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	220		110	39
90-12-0	1-Methylnaphthalene	200	J	220	24
91-57-6	2-Methylnaphthalene	200	J	220	39
91-20-3	Naphthalene	190	J	220	24
85-01-8	Phenanthrene	480		43	21
129-00-0	Pyrene	690		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19019.D
Lab Smp Id: 680-87320-A-23-A Client Smp ID: CV0748RR-CS
Inj Date : 19-FEB-2013 19:02
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-23-a
Misc Info : 680-87320-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 19
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	27.016	% 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	3.816	3.816	(1.000)	2120676	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1618233	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2894202	40.0000	
$ 14 o-Terphenyl	230	6.109	6.110	(1.043)	103350	2.43712	882.8106
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2843227	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2600938	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	29048	0.51691	187.2443
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	19792	0.54166	196.2090
4 1-Methylnaphthalene	142	4.315	4.316	(1.131)	18559	0.55847	202.2962
5 Acenaphthylene	152	4.815	4.816	(0.982)	17092	0.26549	96.1683
11 Phenanthrene	178	5.874	5.874	(1.003)	114319	1.32329	479.3429
12 Anthracene	178	5.910	5.910	(1.009)	11834	0.15204	55.0744
13 Carbazole	167	6.010	6.015	(1.026)	13619	0.20144	72.9681
15 Fluoranthene	202	6.715	6.715	(1.147)	161122	1.90869	691.3954

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.880	6.886	(0.882)	145069	1.91653	694.2349
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	96443	1.23005	445.5671
19 Chrysene	228	7.827	7.827	(1.003)	117681	1.45305	526.3453
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	122148	1.91555	693.8809(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.961)	57458	0.81791	296.2771(M)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	66288	1.09247	395.7301
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.251	(1.135)	35823	0.61468	222.6580(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	13374	0.24335	88.1491(M)
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.176)	47912	0.80932	293.1651

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB19019.D

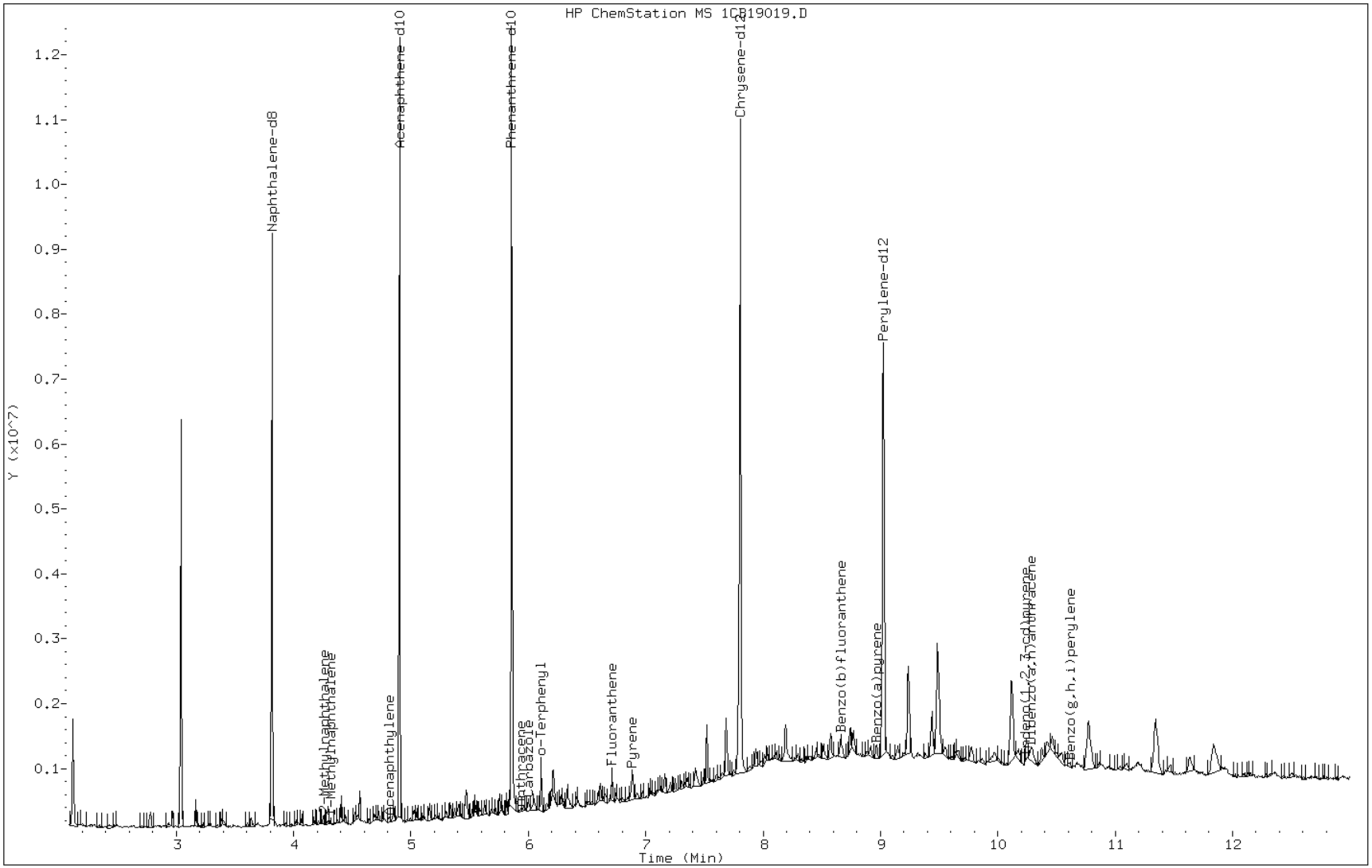
Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a

Operator: SCC



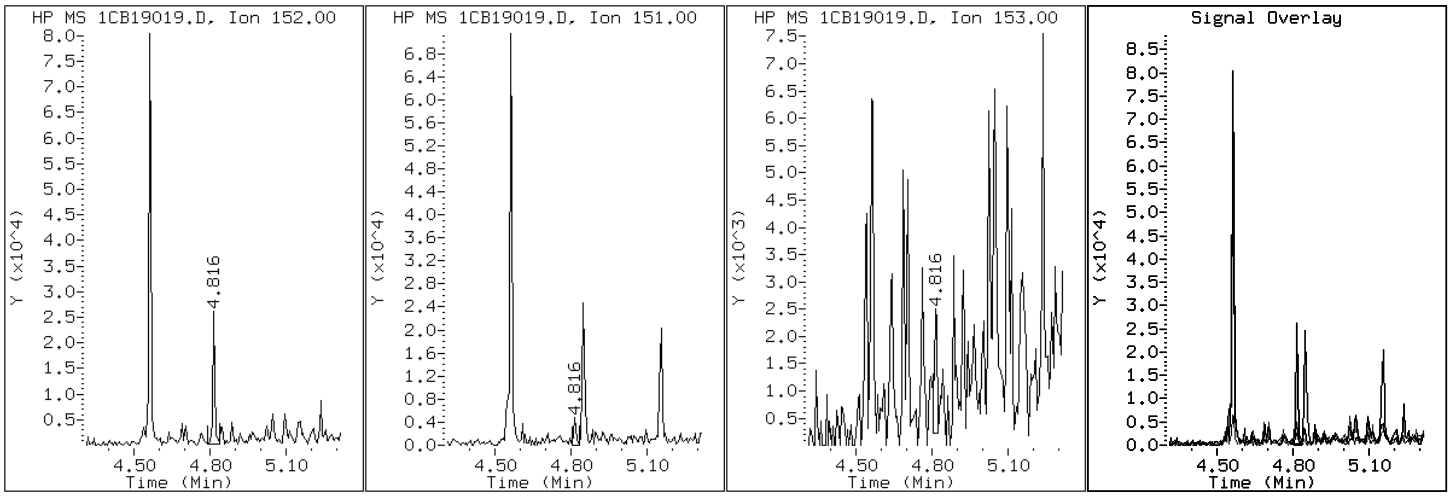
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

5 Acenaphthylene



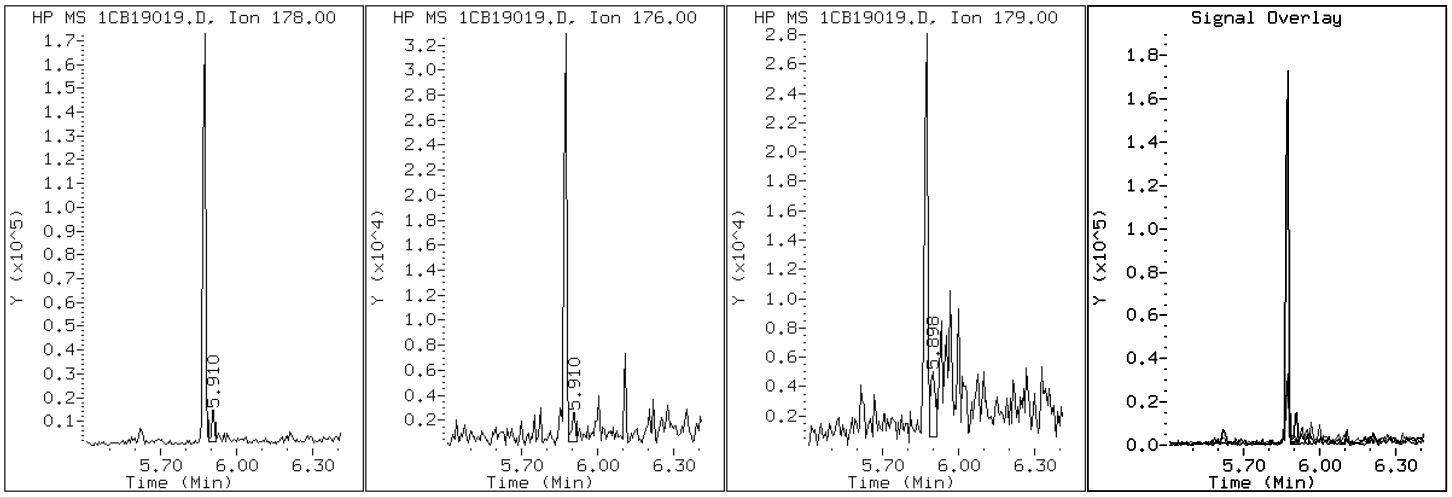
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

12 Anthracene



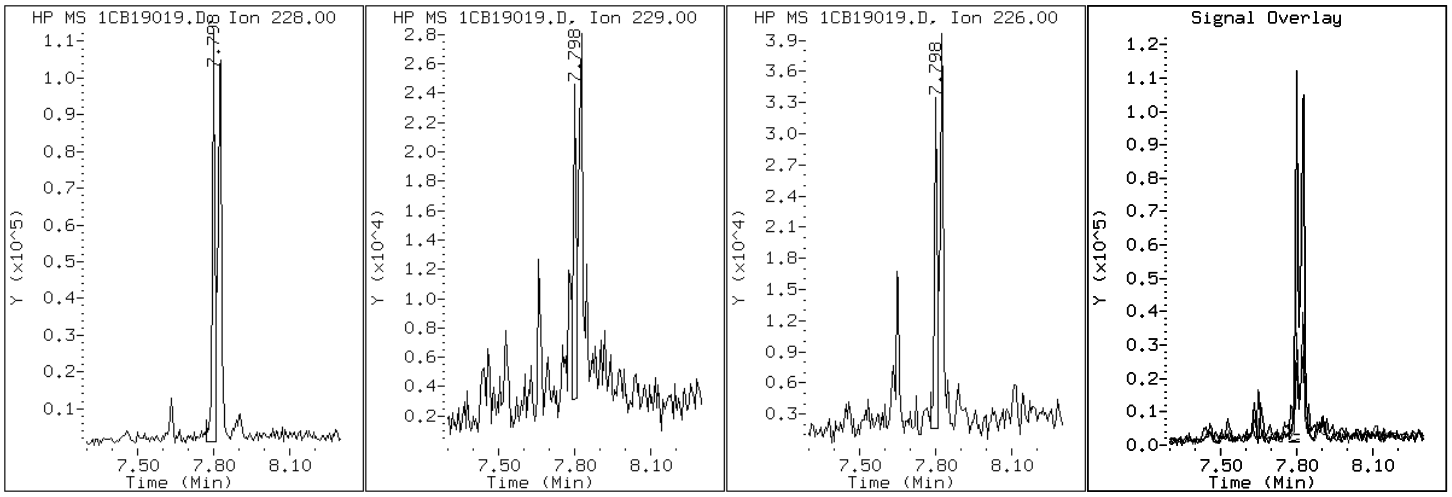
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

17 Benzo(a)anthracene



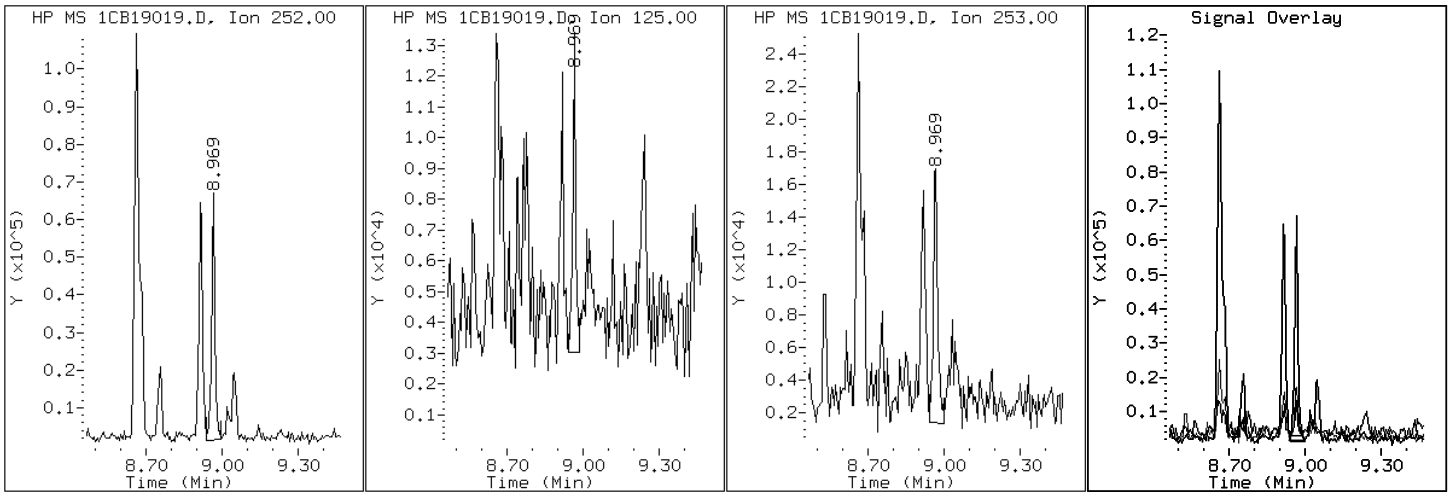
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

22 Benzo(a)pyrene



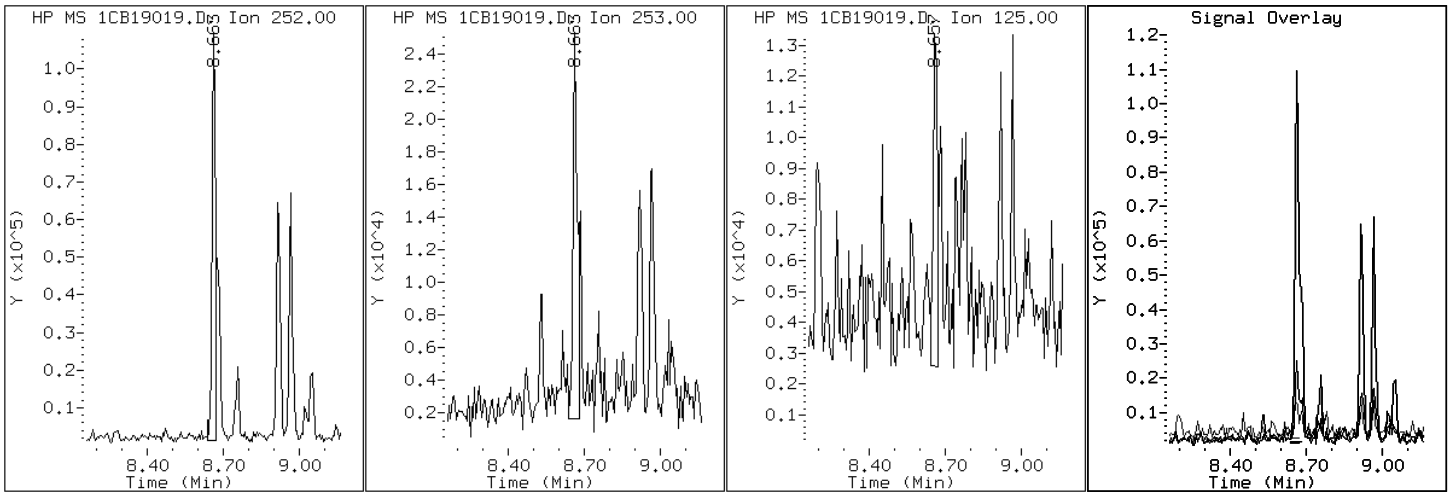
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

20 Benzo(b)fluoranthene



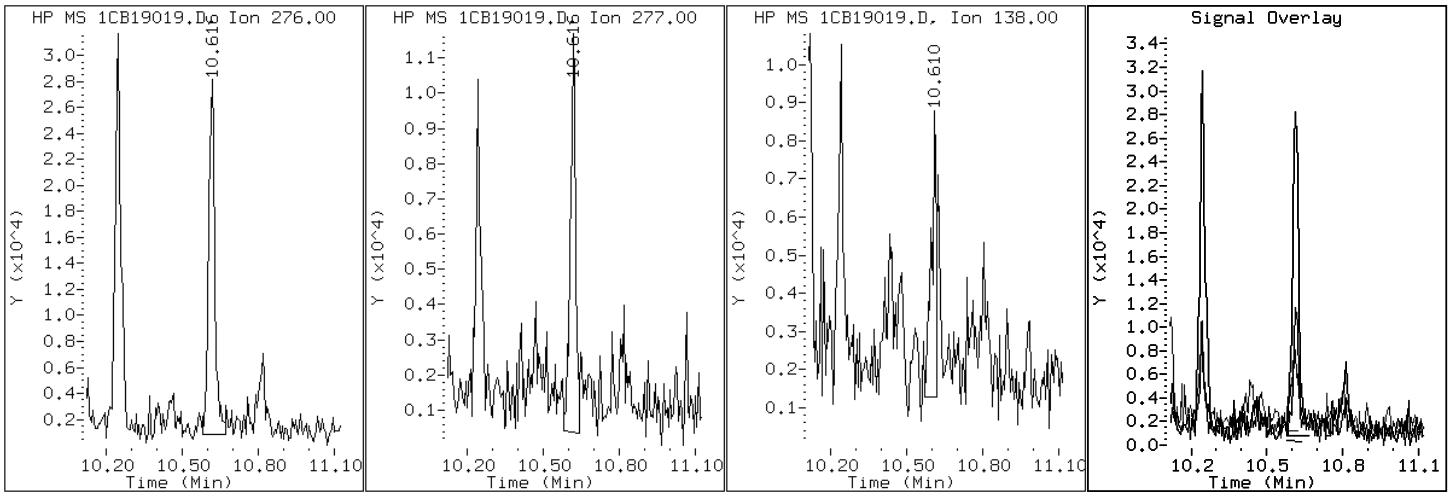
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

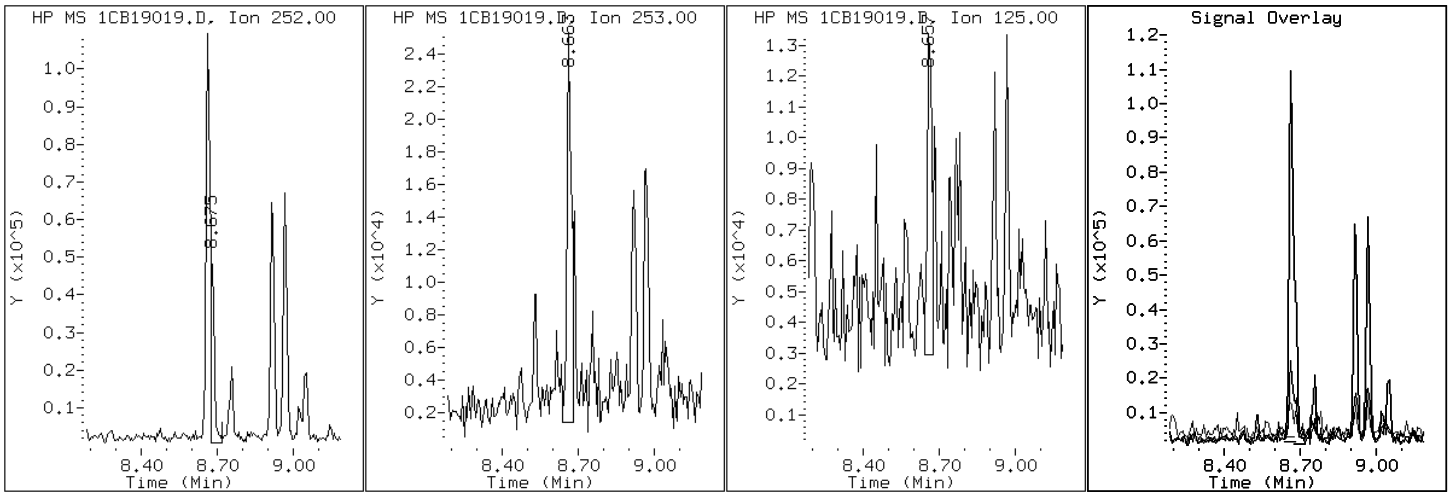
Client ID: CV0748RR-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a

Operator: SCC

21 Benzo(k)fluoranthene



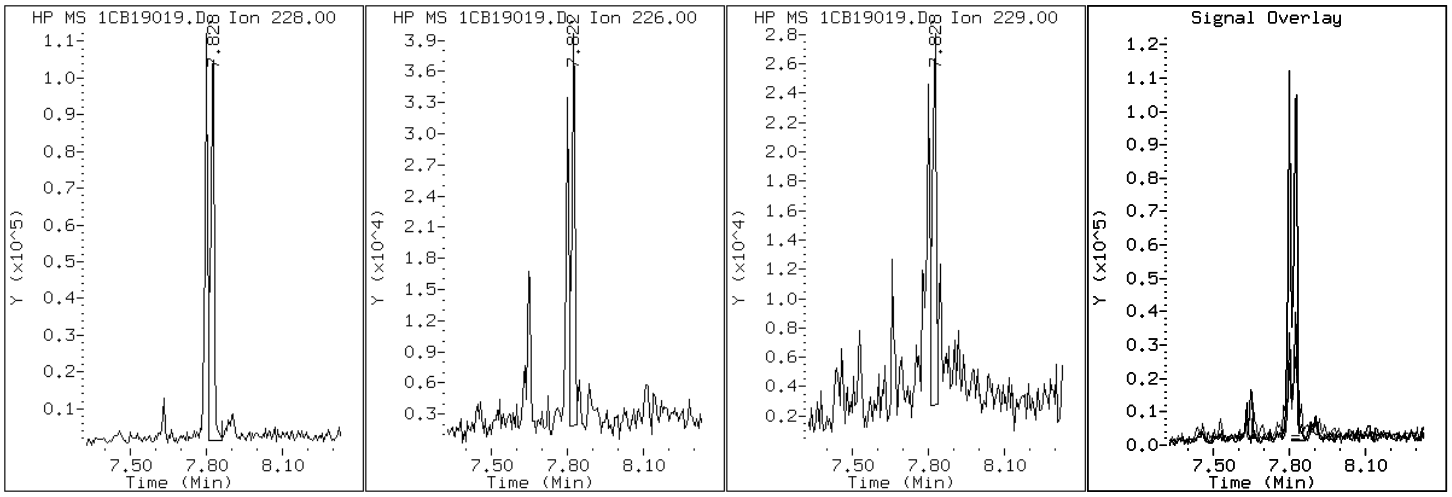
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

19 Chrysene



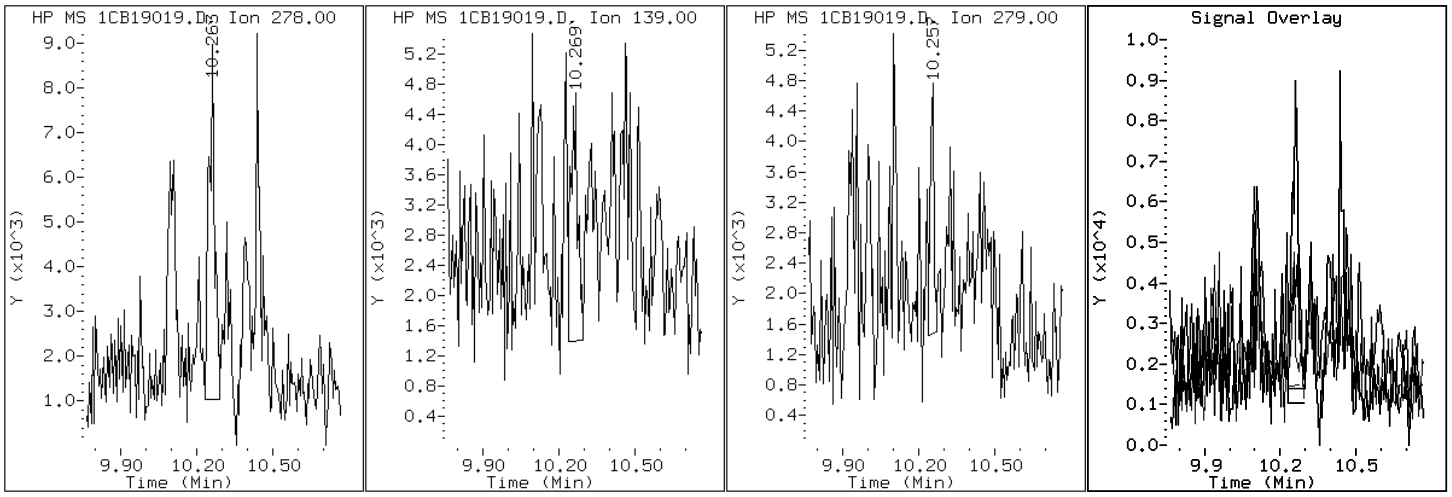
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

25 Dibenzo(a,h)anthracene



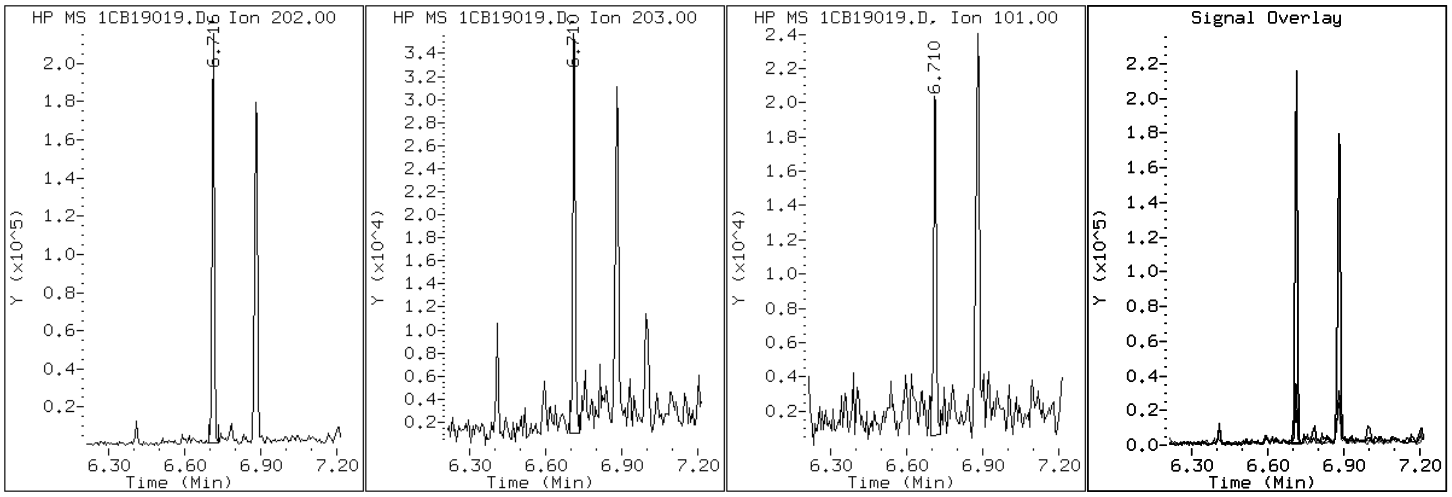
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

15 Fluoranthene



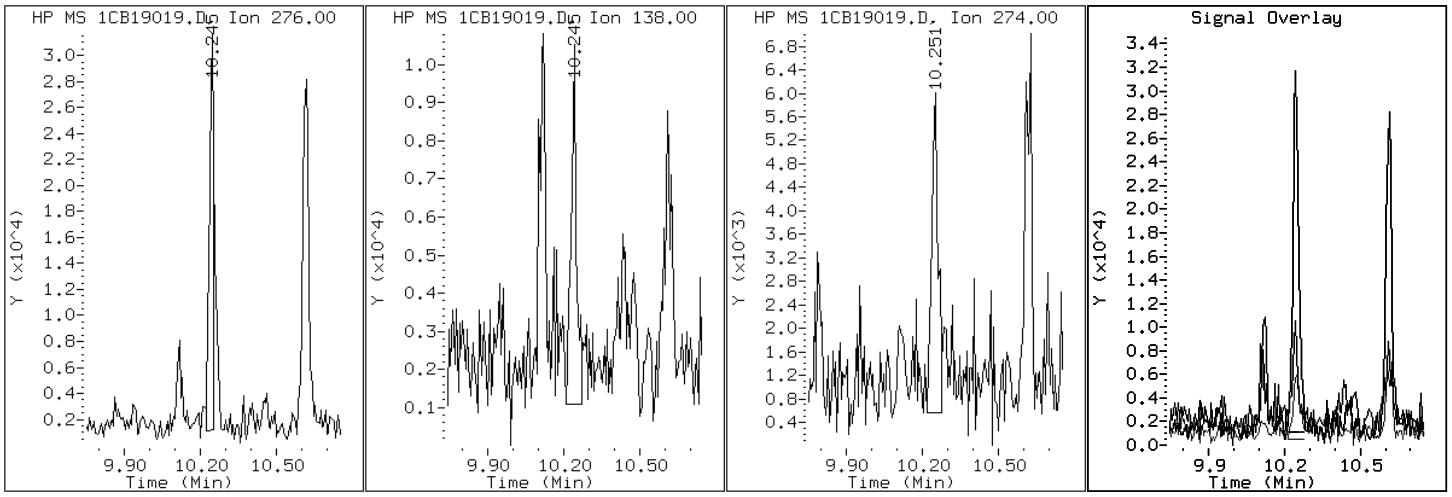
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

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



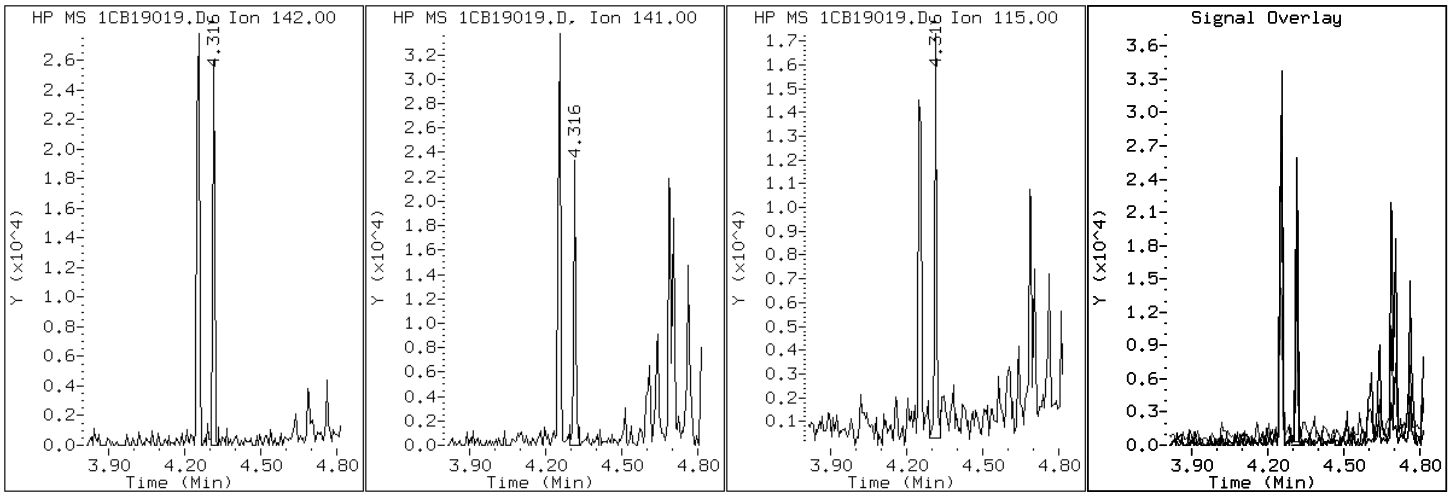
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

4 1-Methylnaphthalene



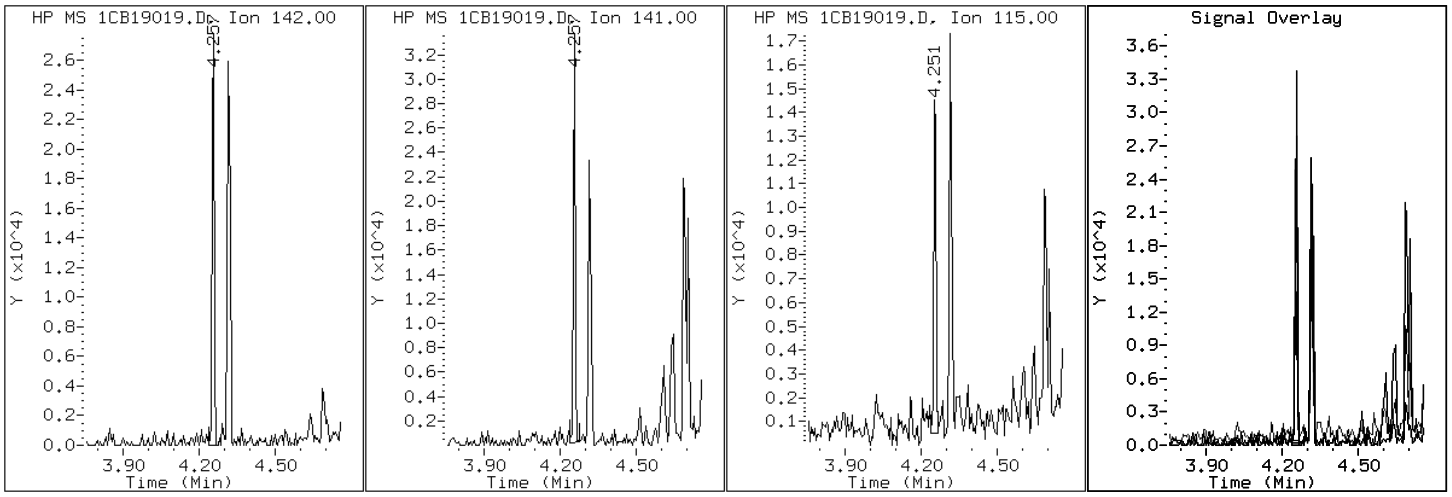
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

3 2-Methylnaphthalene



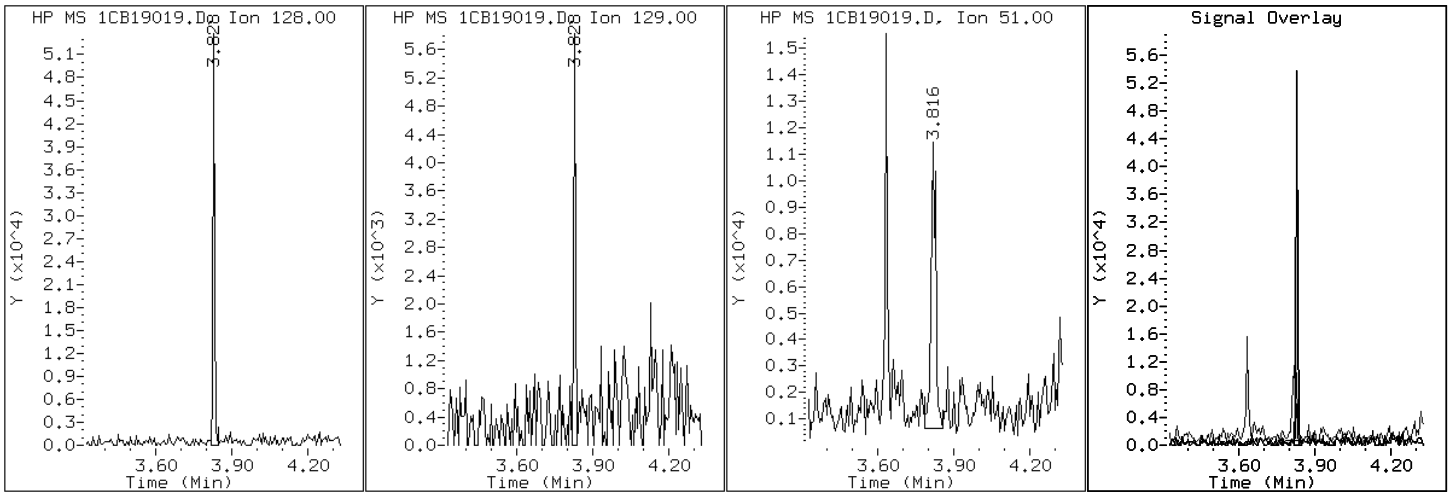
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

2 Naphthalene



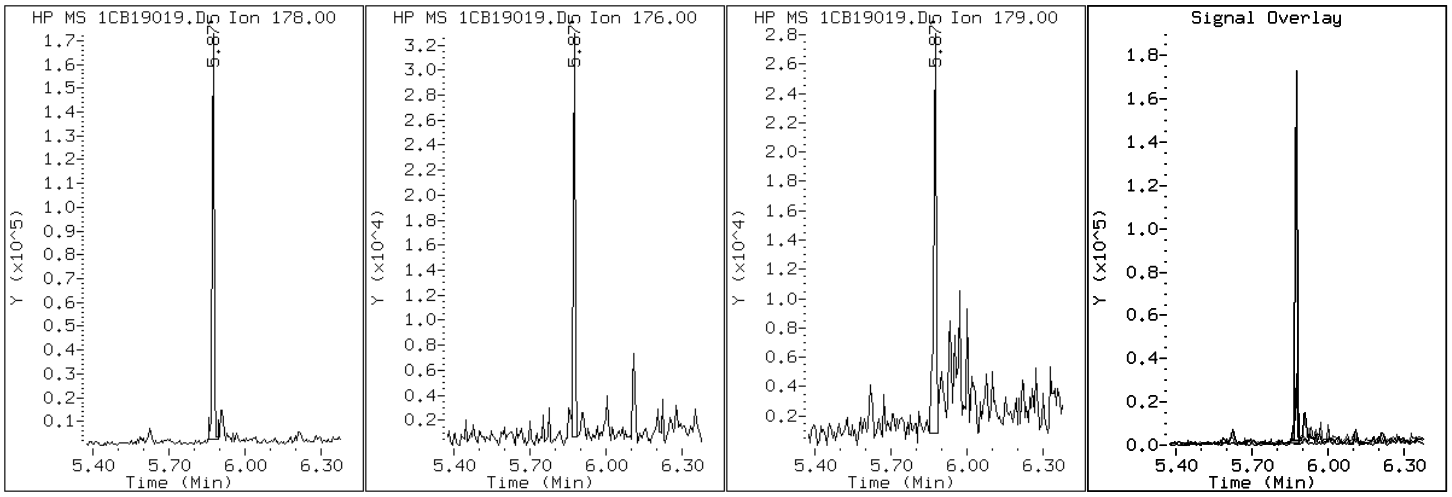
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

11 Phenanthrene



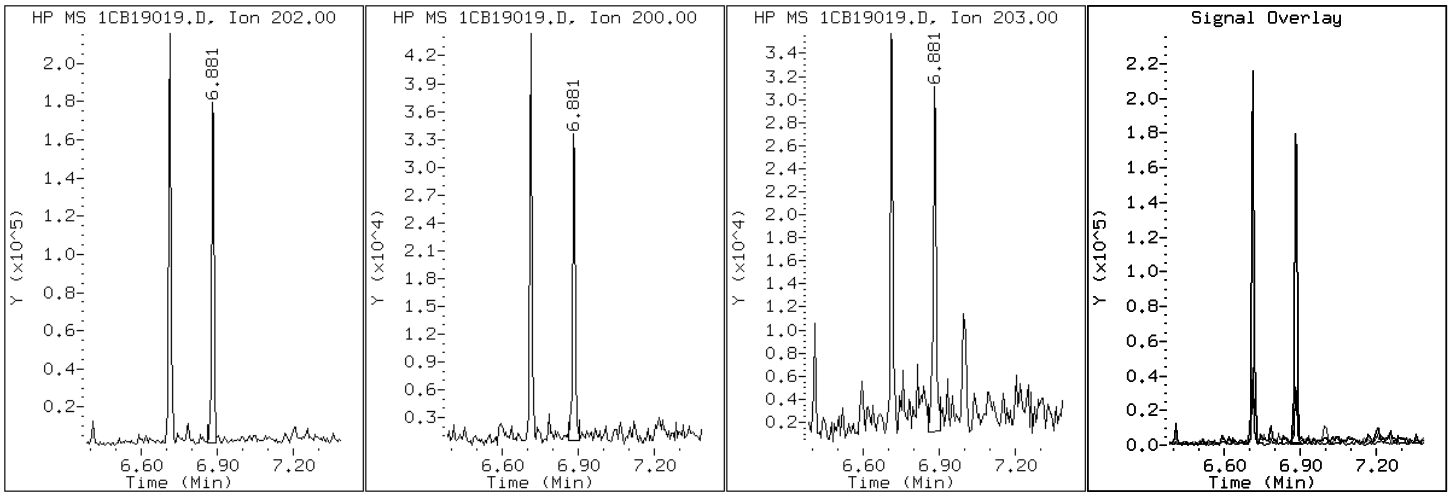
Data File: 1CB19019.D

Date: 19-FEB-2013 19:02

Client ID: CV0748RR-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-23-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19019.D
Inj. Date and Time: 19-FEB-2013 19:02
Instrument ID: BSMC5973.i
Client ID: CV0748RR-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

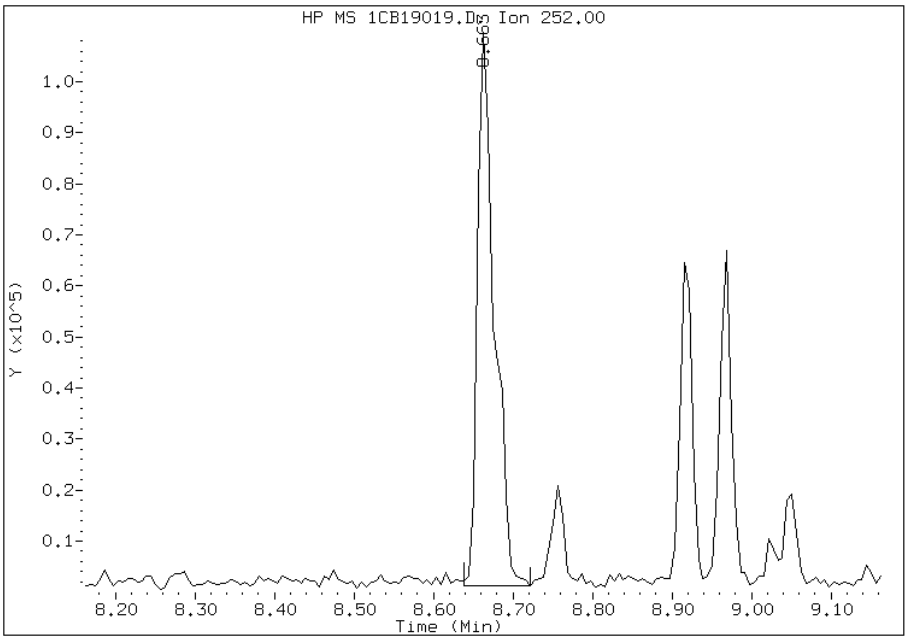
Processing Integration Results

RT: 8.66

Response: 160238

Amount: 3

Conc: 910



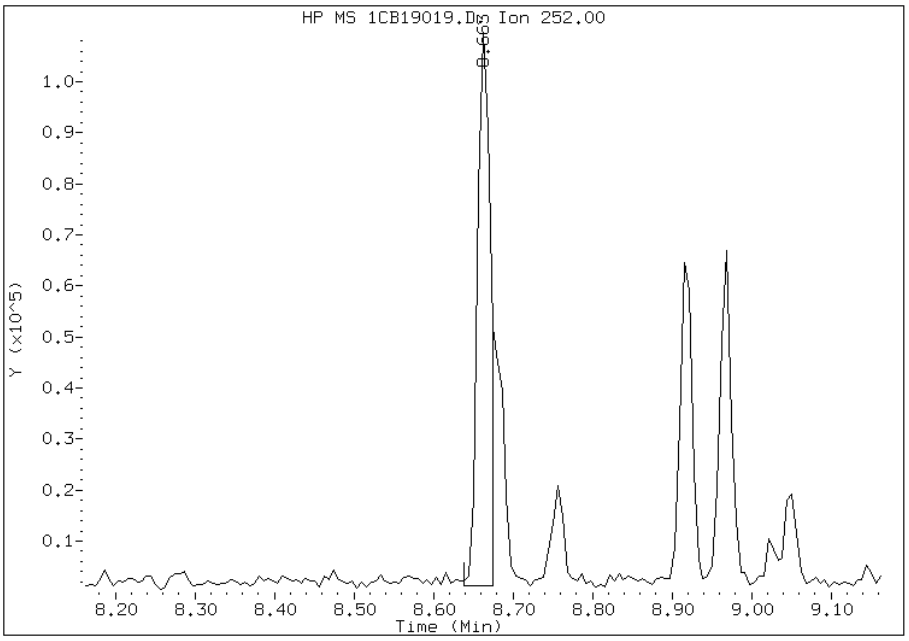
Manual Integration Results

RT: 8.66

Response: 122148

Amount: 2

Conc: 694



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19019.D
Inj. Date and Time: 19-FEB-2013 19:02
Instrument ID: BSMC5973.i
Client ID: CV0748RR-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

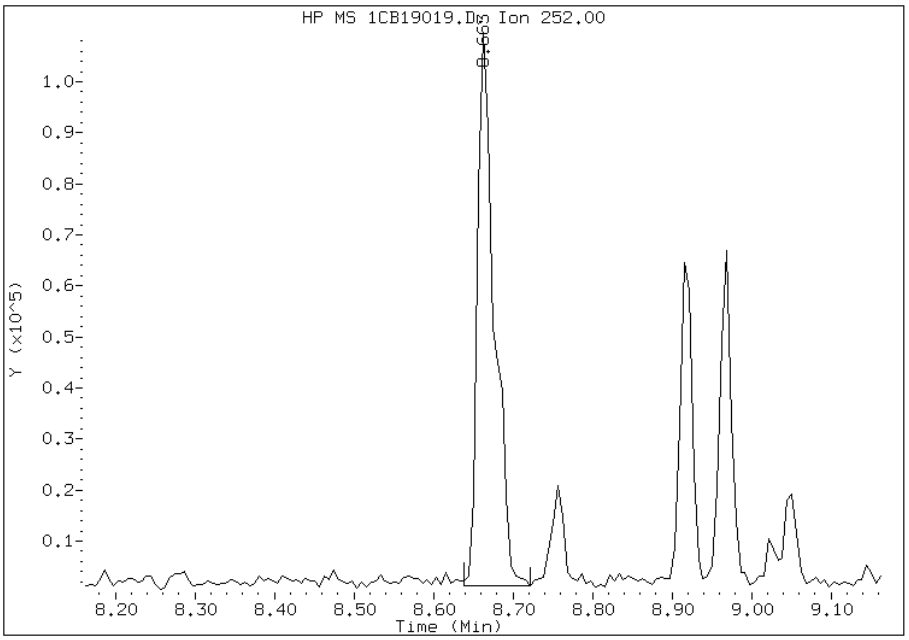
Processing Integration Results

RT: 8.66

Response: 160227

Amount: 2

Conc: 826



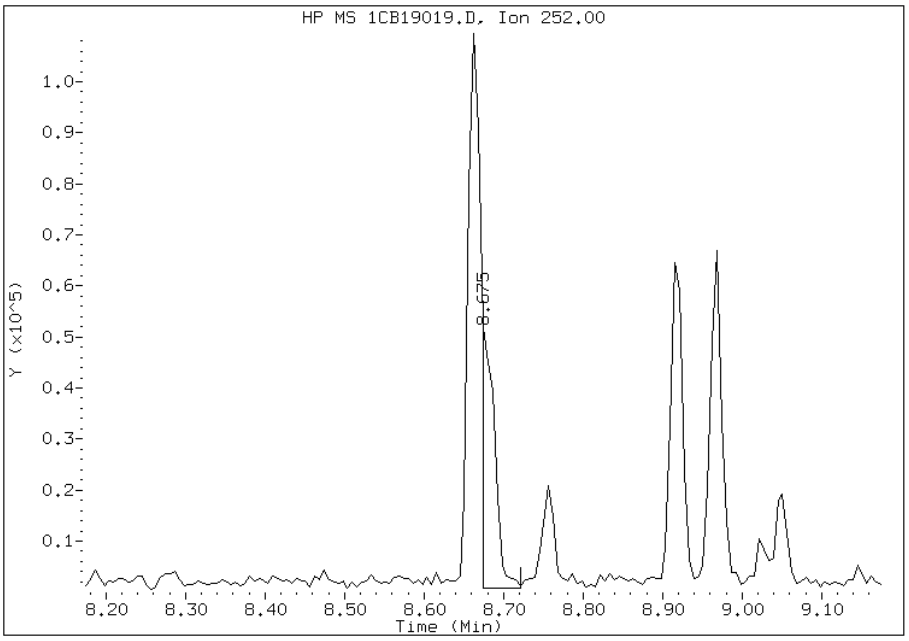
Manual Integration Results

RT: 8.67

Response: 57458

Amount: 1

Conc: 296



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19019.D
Inj. Date and Time: 19-FEB-2013 19:02
Instrument ID: BSMC5973.i
Client ID: CV0748RR-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/20/2013

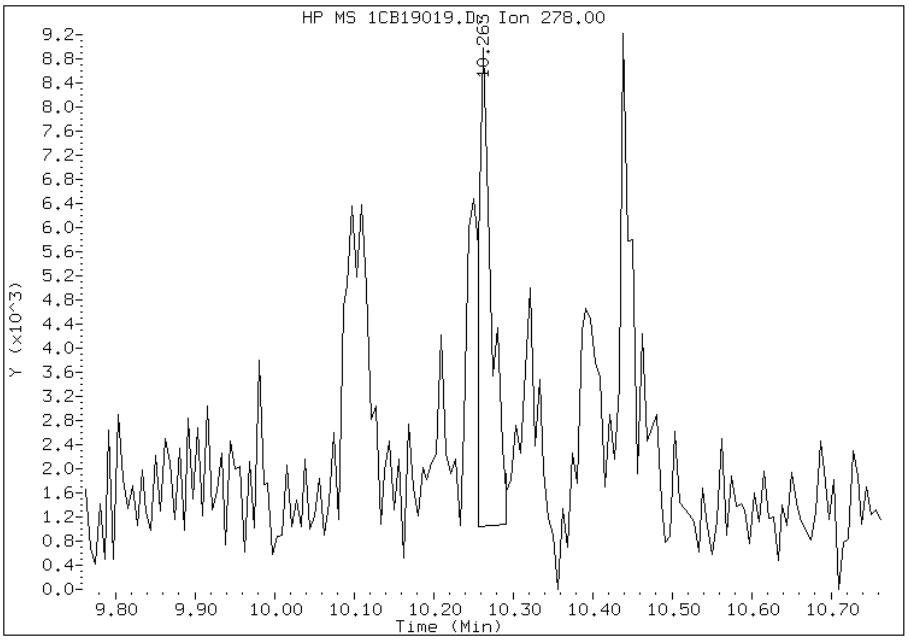
Processing Integration Results

RT: 10.26

Response: 9020

Amount: 0

Conc: 59



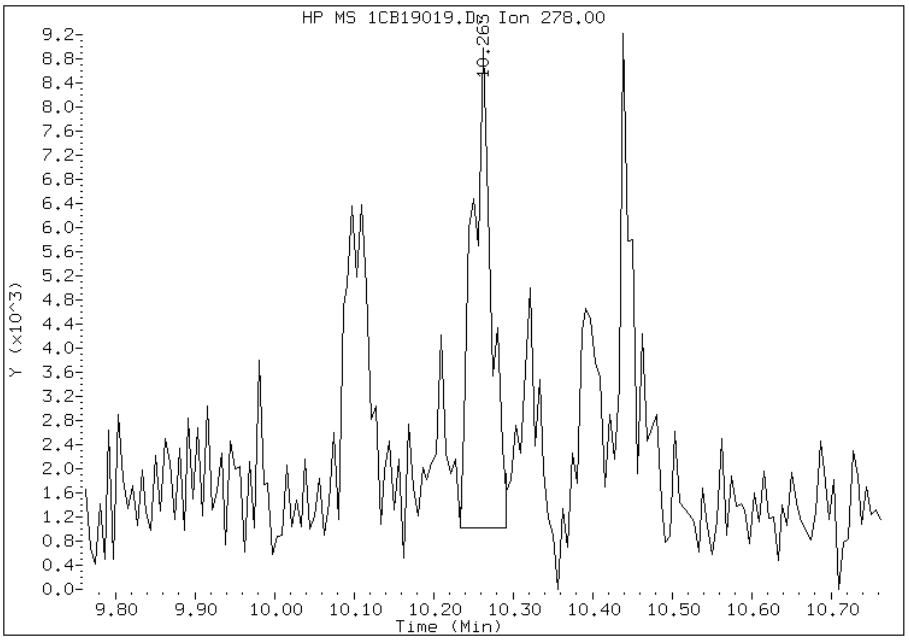
Manual Integration Results

RT: 10.26

Response: 13374

Amount: 0

Conc: 88



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19019.D
Inj. Date and Time: 19-FEB-2013 19:02
Instrument ID: BSMC5973.i
Client ID: CV0748RR-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

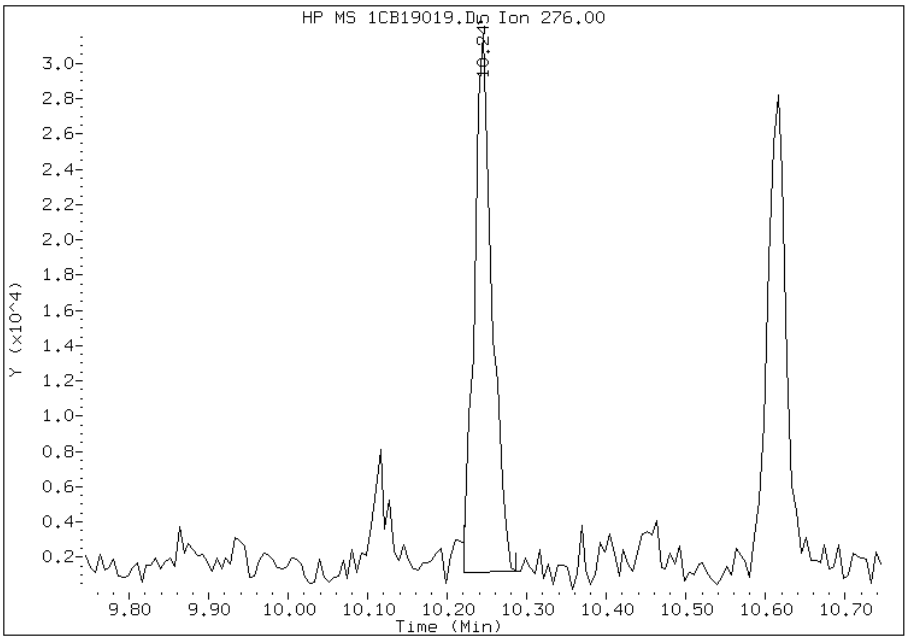
Processing Integration Results

RT: 10.25

Response: 47056

Amount: 1

Conc: 292



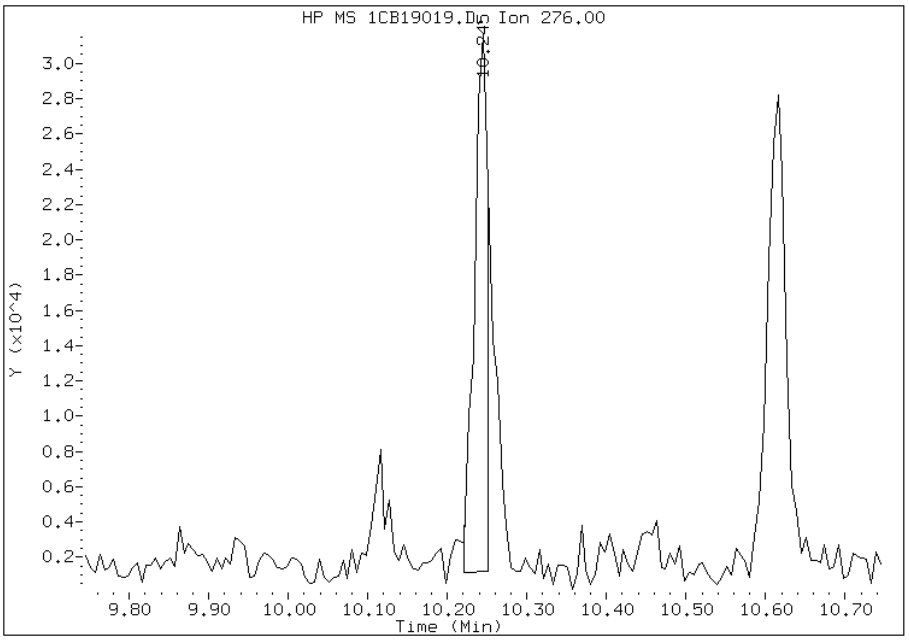
Manual Integration Results

RT: 10.25

Response: 35823

Amount: 1

Conc: 223



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748SS-CS | Lab Sample ID: 680-87320-24

Matrix: Solid | Lab File ID: 1CB19020.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 13:26

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 15.05(g) | Date Analyzed: 02/19/2013 19:21

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

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

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

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	27	J	210	26
120-12-7	Anthracene	48		44	22
56-55-3	Benzo[a]anthracene	340		42	20
50-32-8	Benzo[a]pyrene	300		54	27
205-99-2	Benzo[b]fluoranthene	580		64	32
191-24-2	Benzo[g,h,i]perylene	270		100	23
207-08-9	Benzo[k]fluoranthene	150		42	19
218-01-9	Chrysene	400		47	24
53-70-3	Dibenz(a,h)anthracene	89	J	100	21
206-44-0	Fluoranthene	550		100	21
86-73-7	Fluorene	30	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	170		100	37
90-12-0	1-Methylnaphthalene	170	J	210	23
91-57-6	2-Methylnaphthalene	120	J	210	37
91-20-3	Naphthalene	120	J	210	23
85-01-8	Phenanthrene	330		42	20
129-00-0	Pyrene	500		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19020.D
Lab Smp Id: 680-87320-A-24-A Client Smp ID: CV0748SS-CS
Inj Date : 19-FEB-2013 19:21
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-24-a
Misc Info : 680-87320-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 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	15.050	Weight Extracted
M	23.803	% 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	3.815	3.816	(1.000)	2171280	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1635993	40.0000	
* 10 Phenanthrene-d10	188	5.856	5.857	(1.000)	2934765	40.0000	
$ 14 o-Terphenyl	230	6.109	6.110	(1.043)	103466	2.40613	839.2773
* 18 Chrysene-d12	240	7.803	7.809	(1.000)	2881195	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2701310	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	19642	0.34139	119.0781
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	12989	0.34719	121.1041
4 1-Methylnaphthalene	142	4.315	4.316	(1.131)	16674	0.49005	170.9333
5 Acenaphthylene	152	4.815	4.816	(0.982)	4961	0.07622	26.5866
9 Fluorene	166	5.239	5.245	(1.068)	4515	0.08616	30.0543(Q)
11 Phenanthrene	178	5.874	5.874	(1.003)	82428	0.94095	328.2112
12 Anthracene	178	5.904	5.910	(1.008)	10798	0.13681	47.7213
13 Carbazole	167	6.015	6.015	(1.027)	11078	0.16159	56.3638

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	133947	1.56484	545.8275
16 Pyrene	202	6.880	6.886	(0.882)	110100	1.43538	500.6720
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	78514	0.98818	344.6860
19 Chrysene	228	7.821	7.827	(1.002)	95043	1.15806	403.9417
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	109176	1.64850	575.0115(M)
21 Benzo(k)fluoranthene	252	8.680	8.686	(0.962)	31012	0.42505	148.2614(QM)
22 Benzo(a)pyrene	252	8.962	8.968	(0.993)	54085	0.85823	299.3586
24 Indeno(1,2,3-cd)pyrene	276	10.244	10.251	(1.135)	29444	0.48645	169.6774(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	14628	0.25627	89.3907
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.176)	48449	0.78798	274.8550(M)

QC Flag Legend

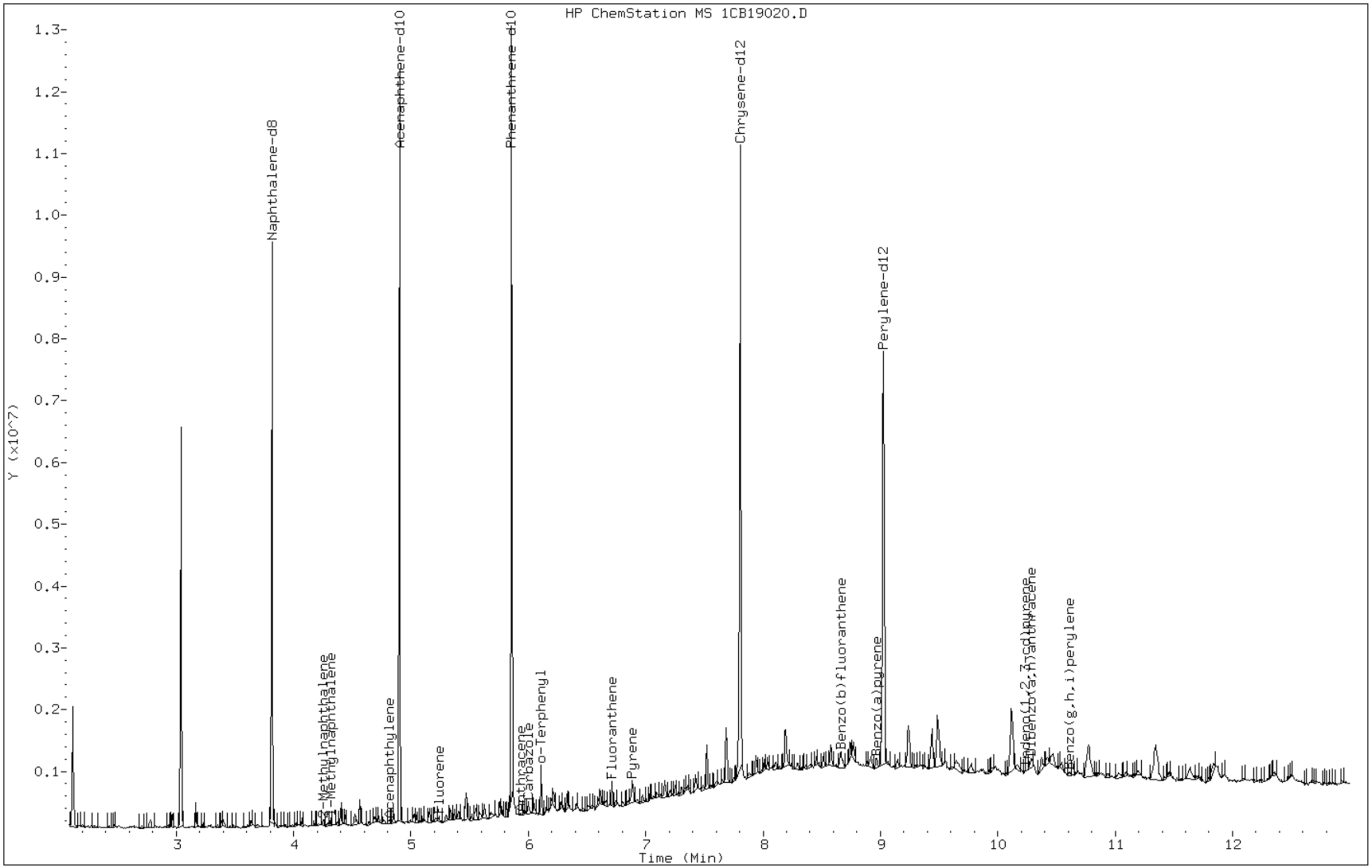
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC



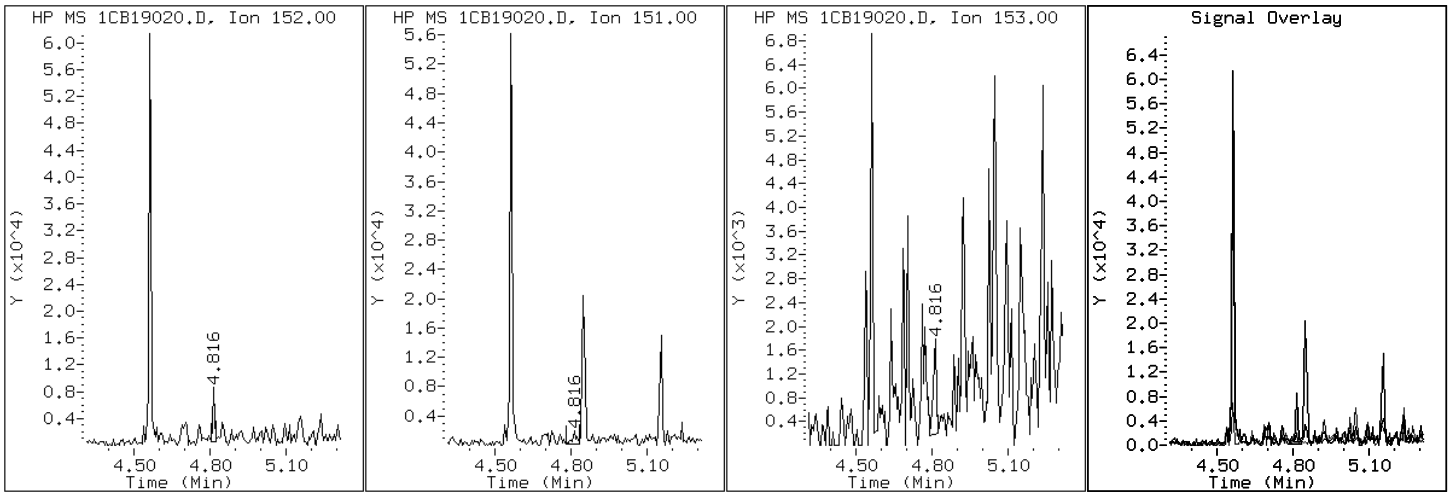
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

5 Acenaphthylene



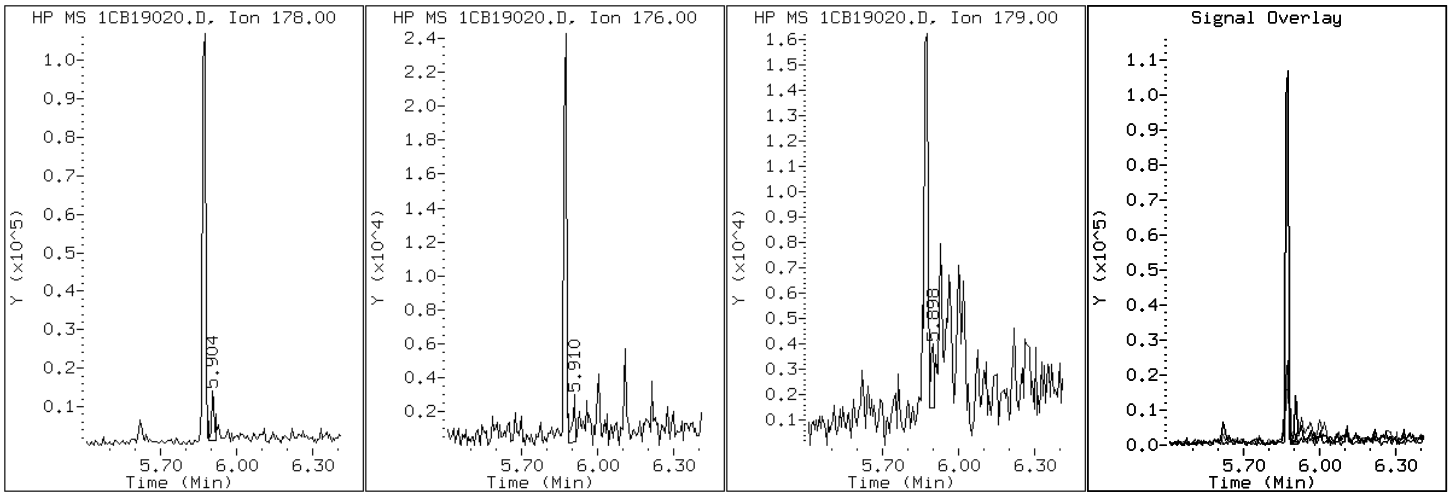
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

12 Anthracene



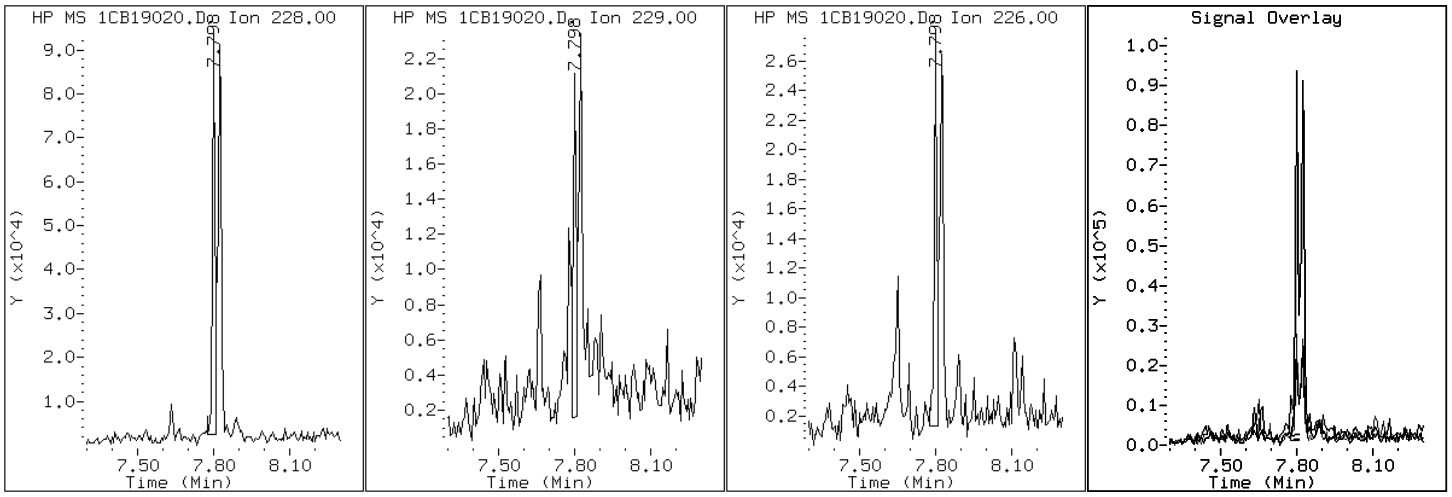
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

17 Benzo(a)anthracene



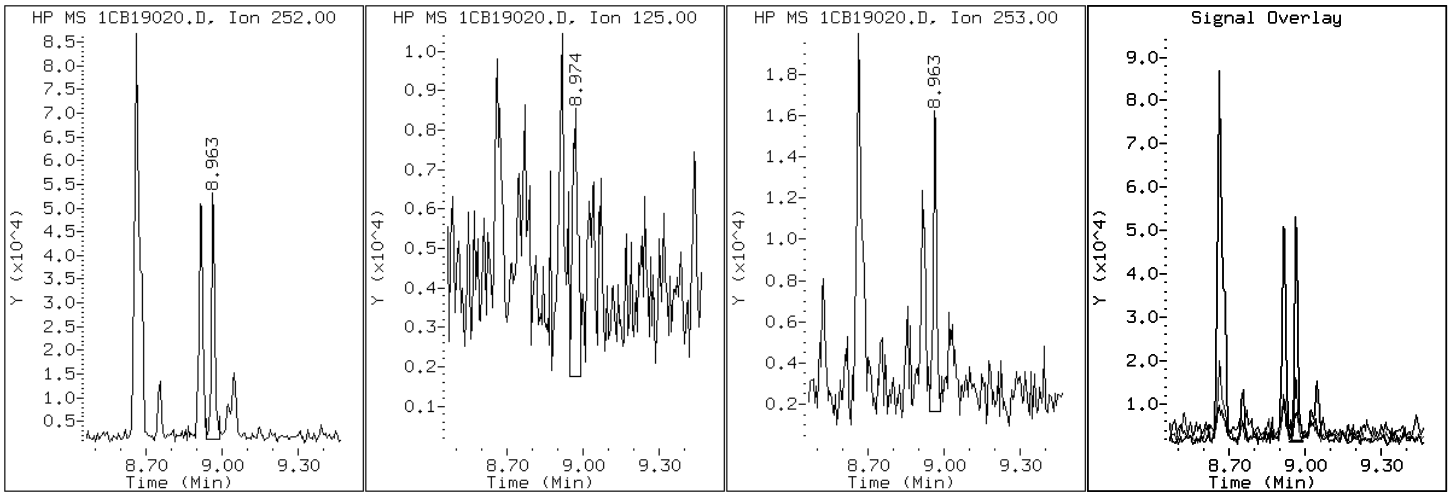
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

22 Benzo(a)pyrene



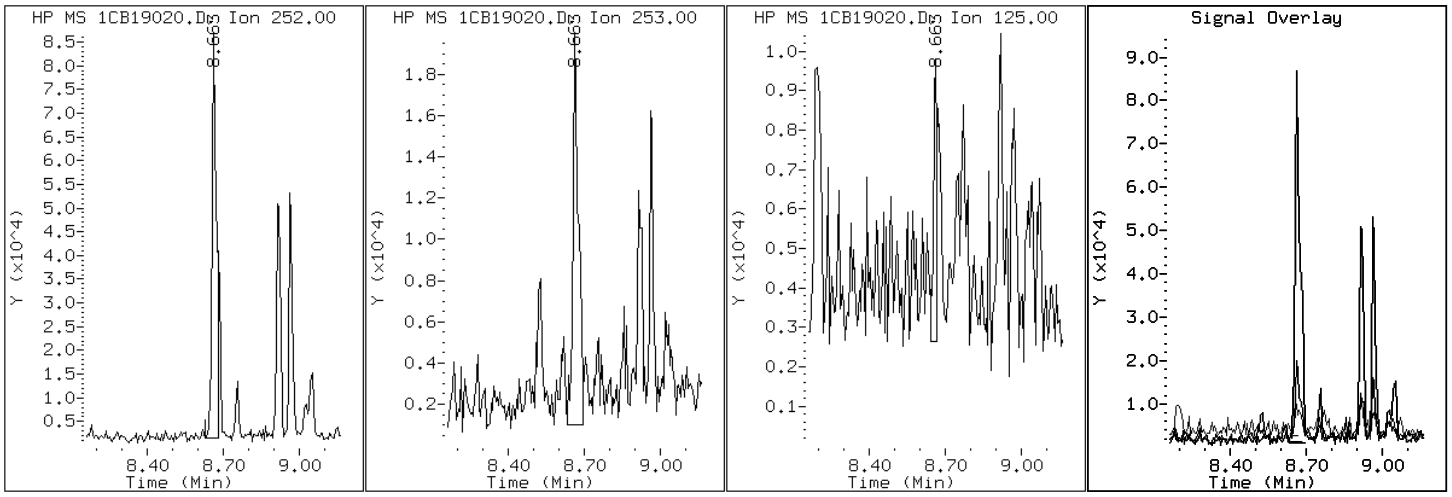
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

20 Benzo(b)fluoranthene



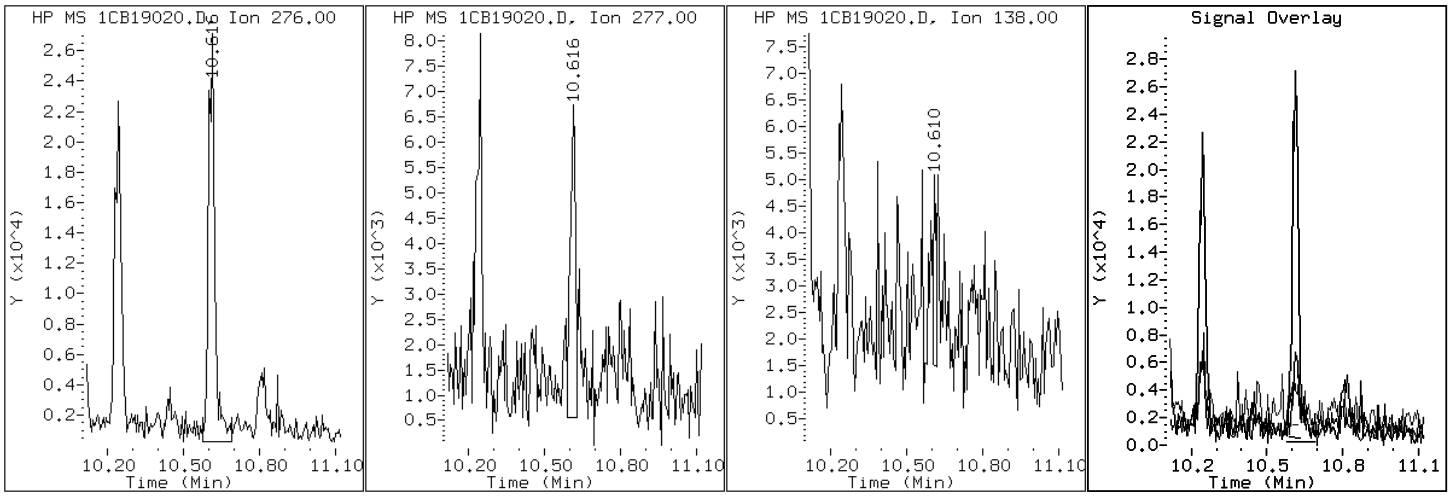
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

26 Benzo(g,h,i)perylene



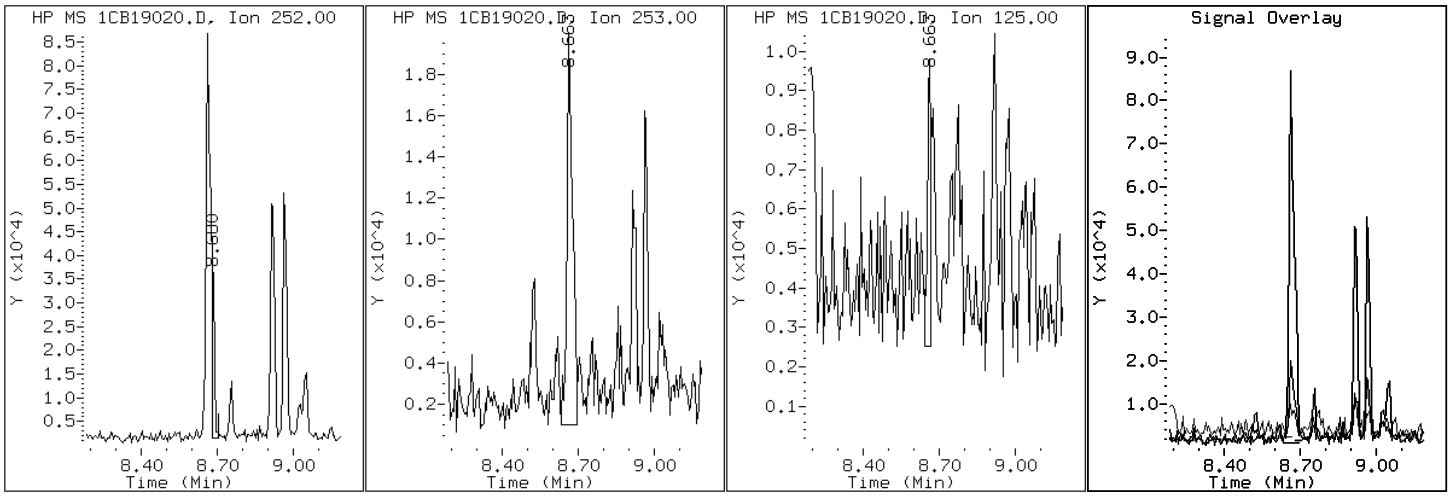
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

21 Benzo(k)fluoranthene



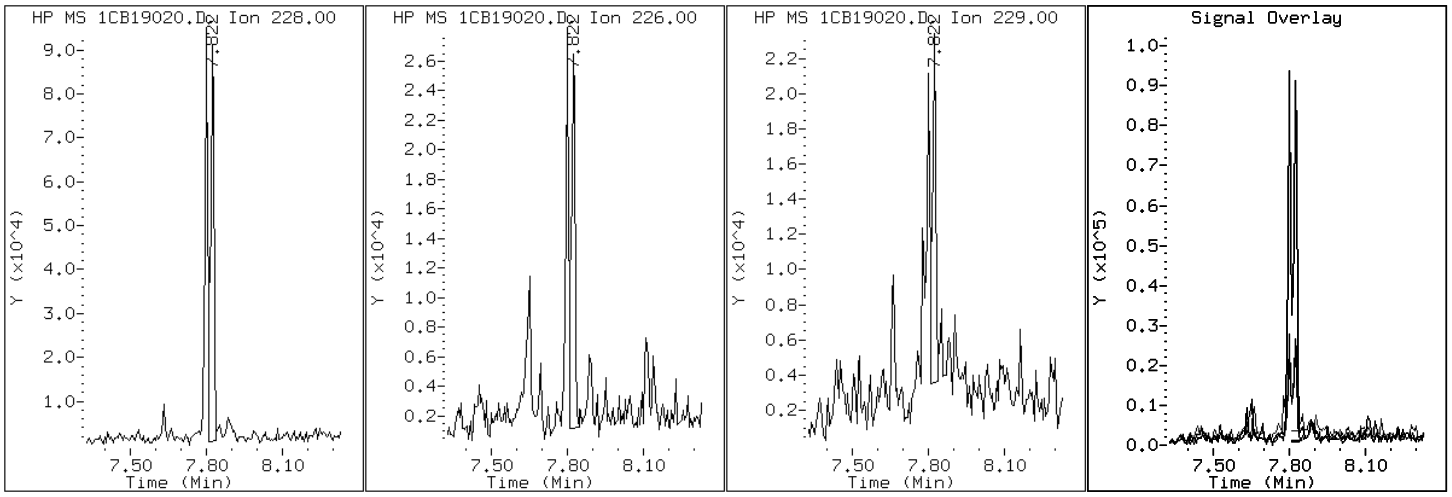
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

19 Chrysene



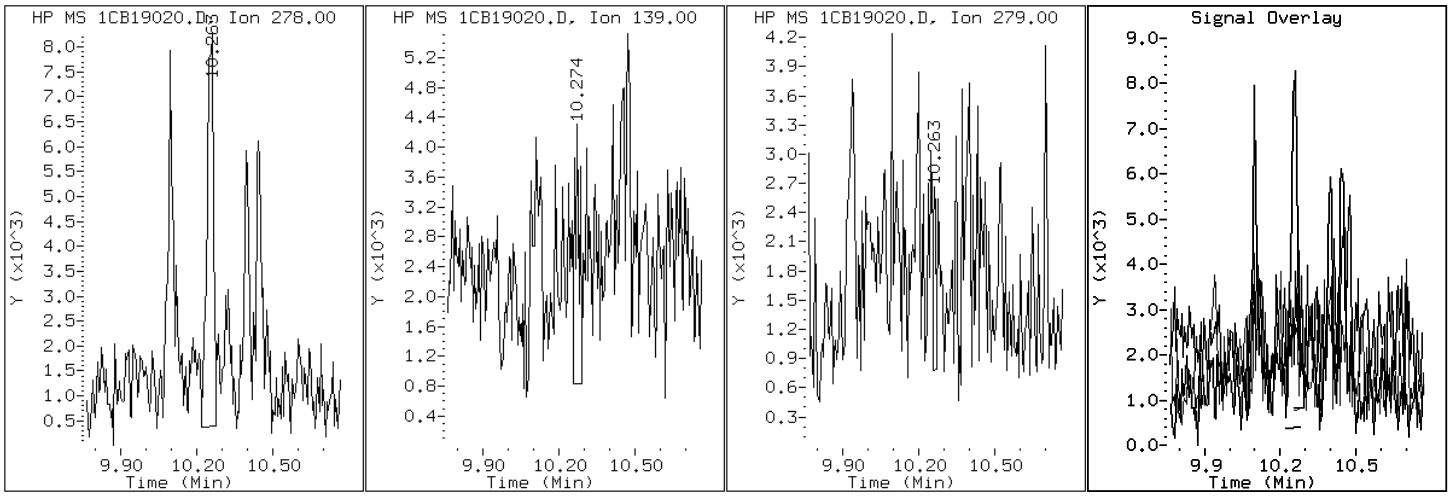
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

25 Dibenzo(a,h)anthracene



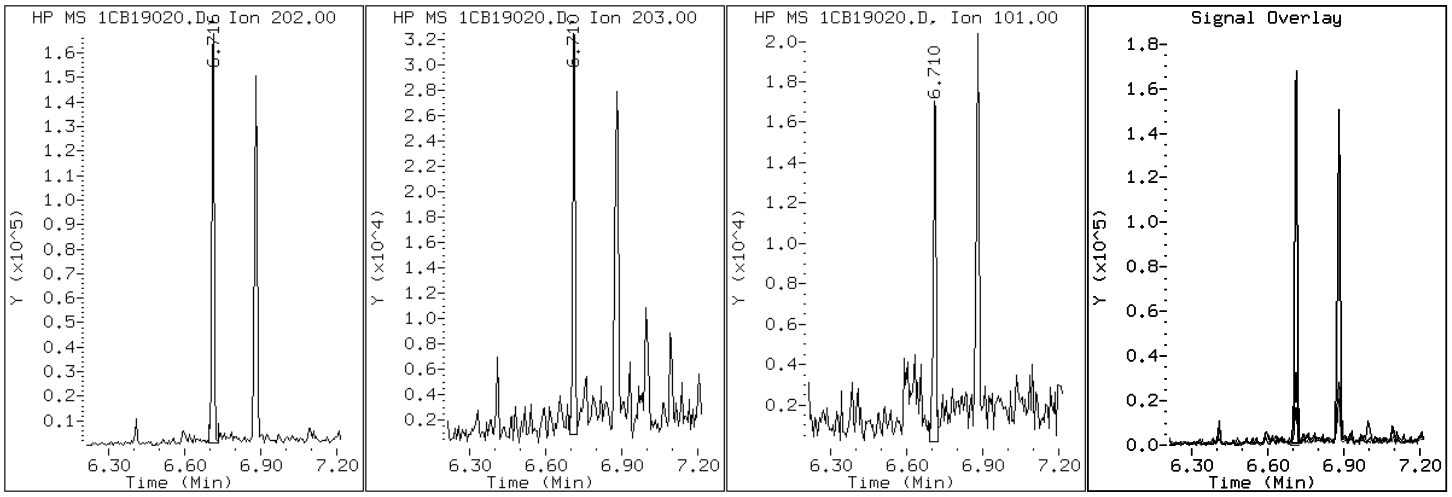
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

15 Fluoranthene



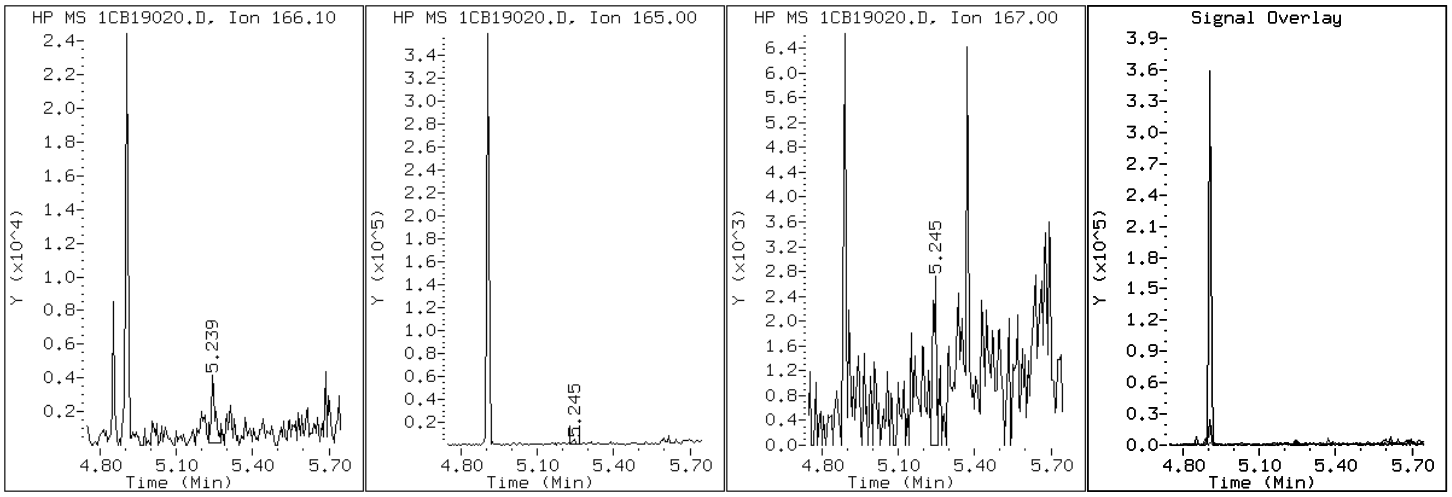
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

9 Fluorene



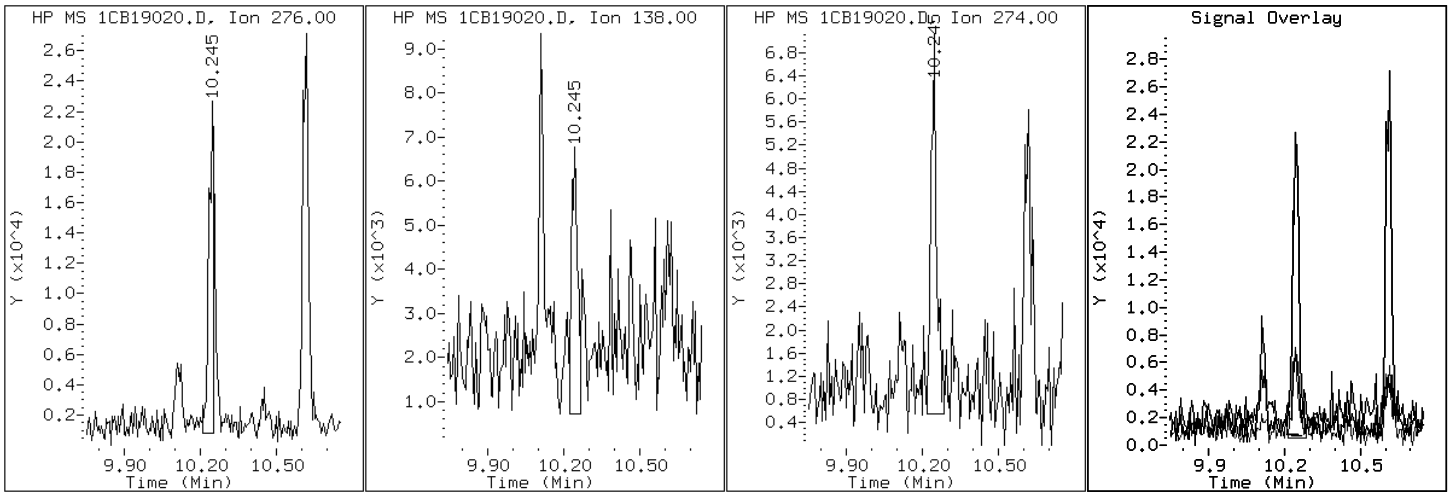
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

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



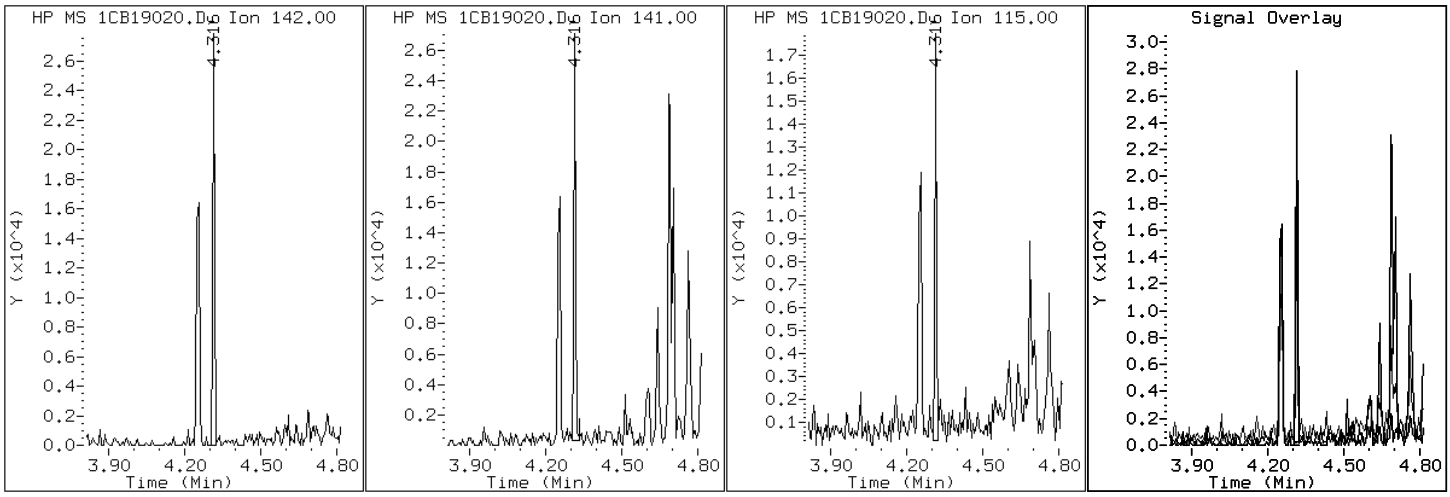
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

4 1-Methylnaphthalene



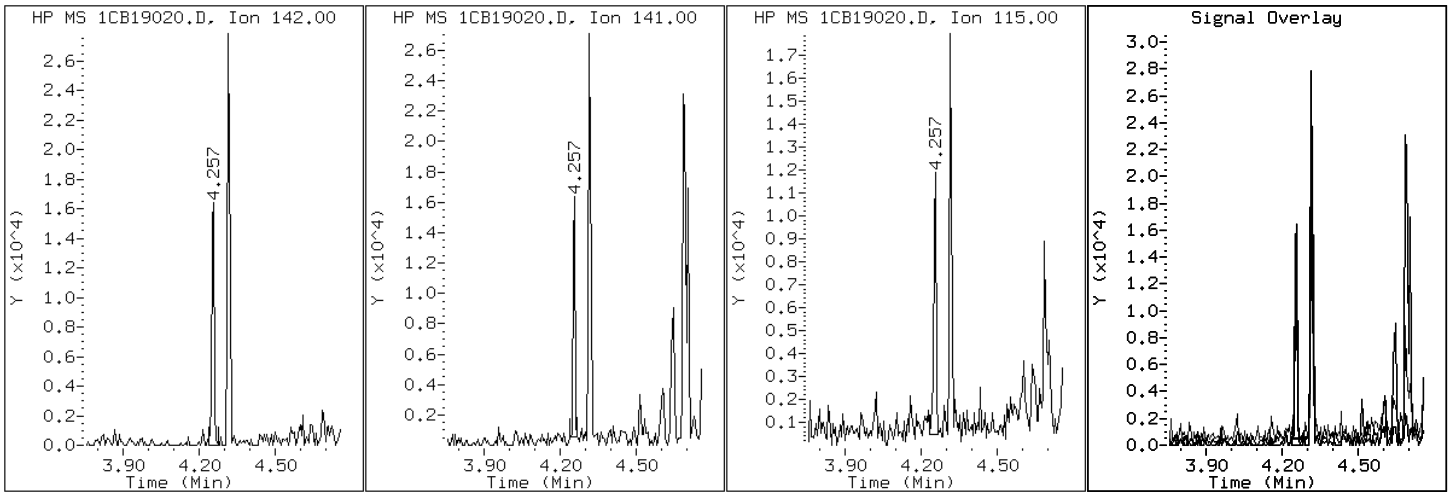
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

3 2-Methylnaphthalene



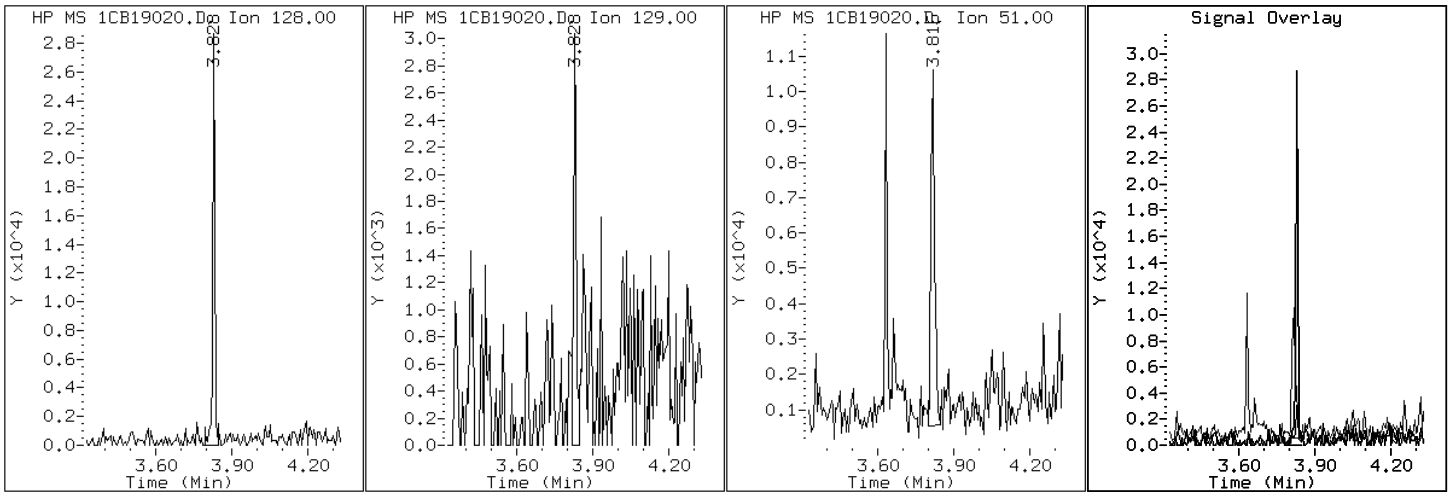
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

2 Naphthalene



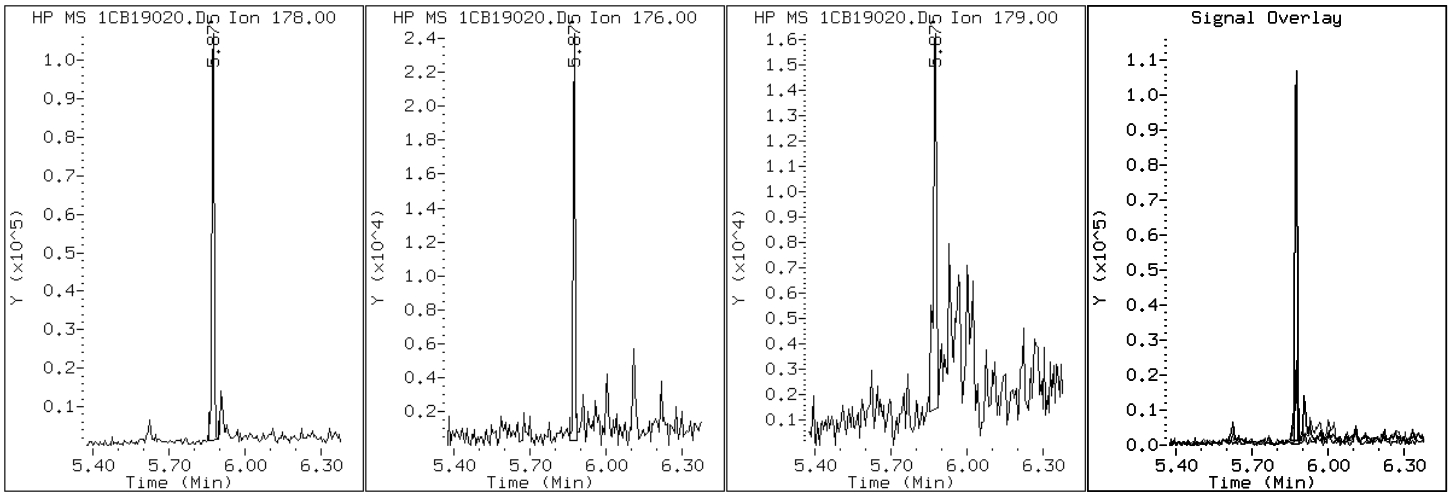
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

11 Phenanthrene



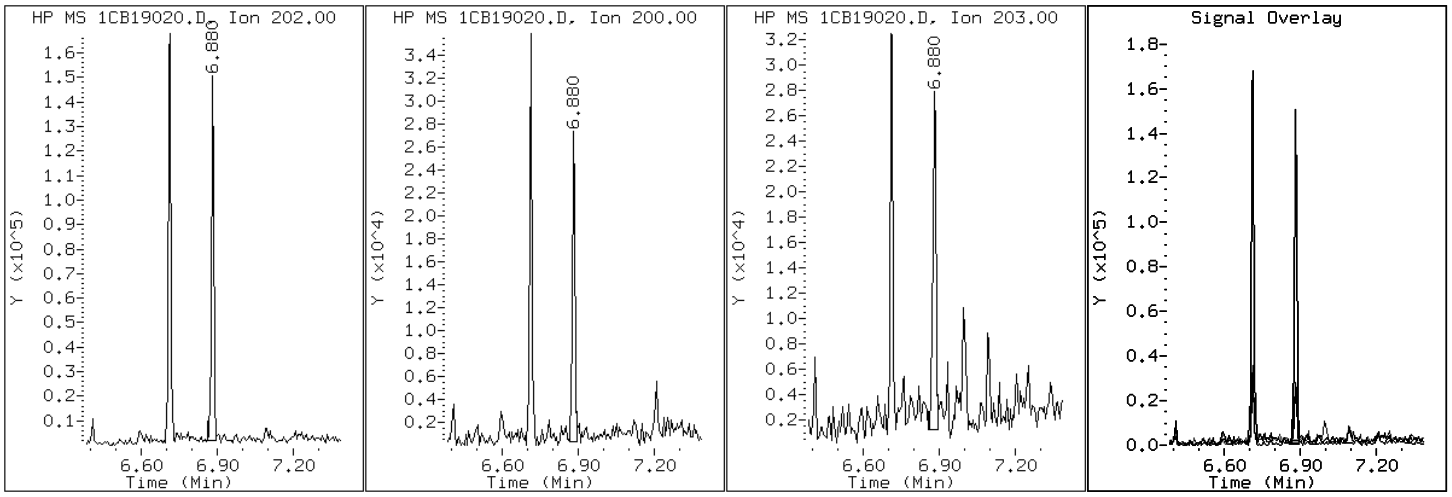
Data File: 1CB19020.D

Date: 19-FEB-2013 19:21

Client ID: CV0748SS-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-24-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19020.D
Inj. Date and Time: 19-FEB-2013 19:21
Instrument ID: BSMC5973.i
Client ID: CV0748SS-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

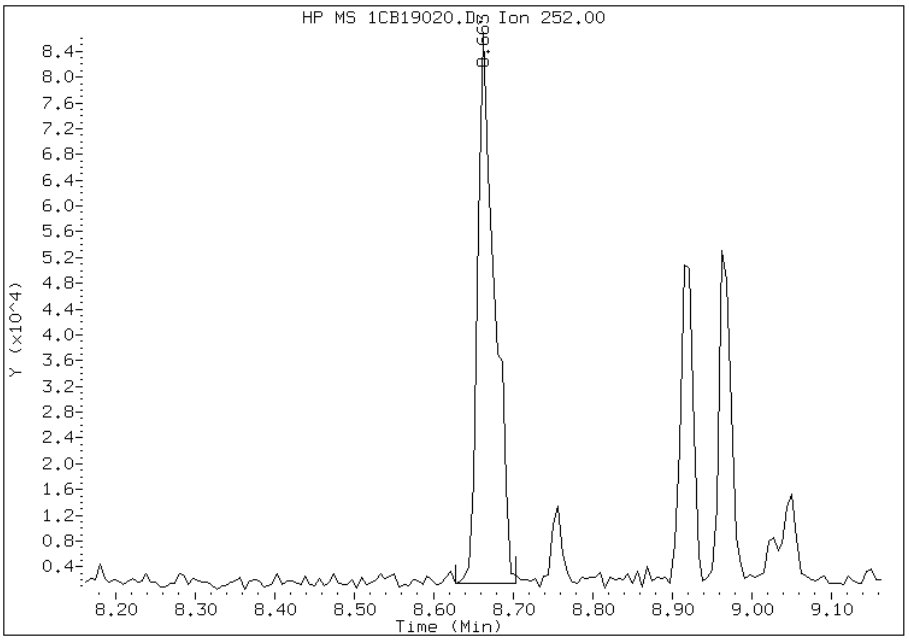
Processing Integration Results

RT: 8.66

Response: 127661

Amount: 2

Conc: 672



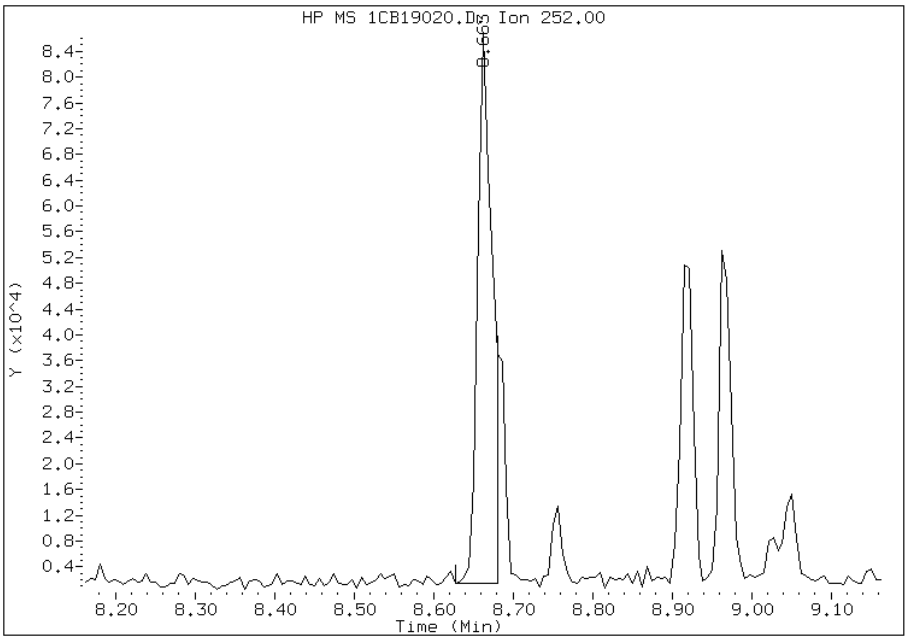
Manual Integration Results

RT: 8.66

Response: 109176

Amount: 2

Conc: 575



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19020.D
Inj. Date and Time: 19-FEB-2013 19:21
Instrument ID: BSMC5973.i
Client ID: CV0748SS-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/20/2013

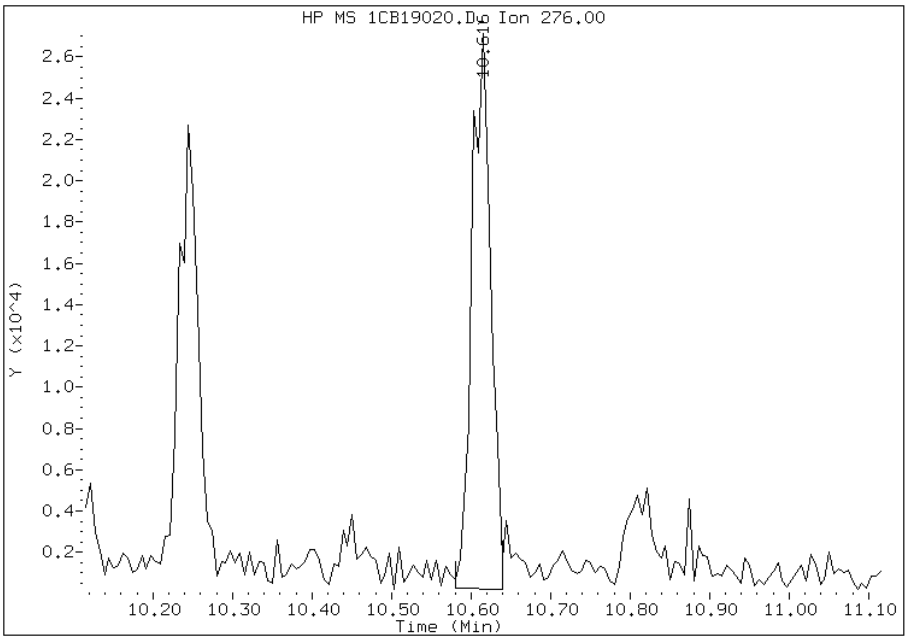
Processing Integration Results

RT: 10.62

Response: 44033

Amount: 1

Conc: 250



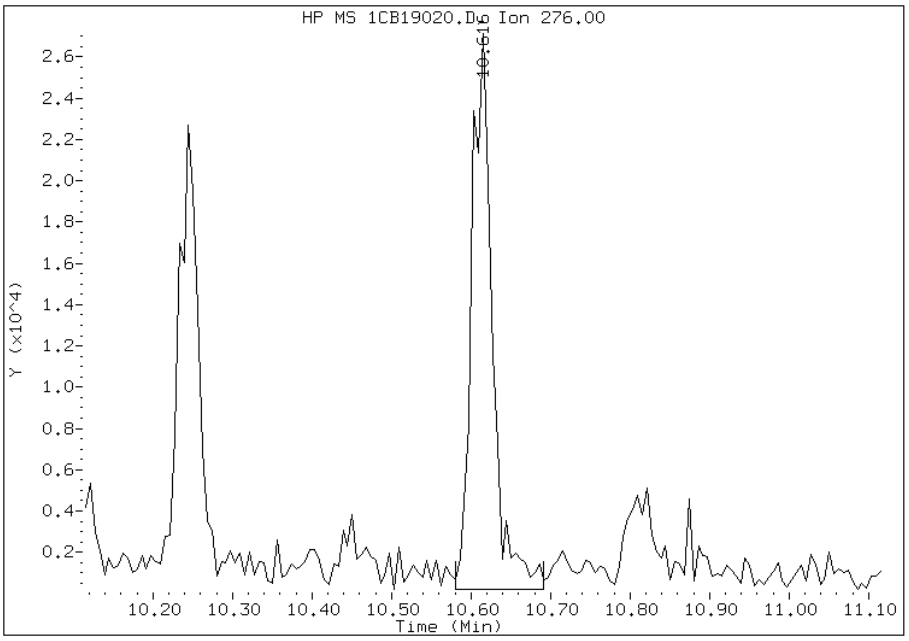
Manual Integration Results

RT: 10.62

Response: 48449

Amount: 1

Conc: 275



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19020.D
Inj. Date and Time: 19-FEB-2013 19:21
Instrument ID: BSMC5973.i
Client ID: CV0748SS-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

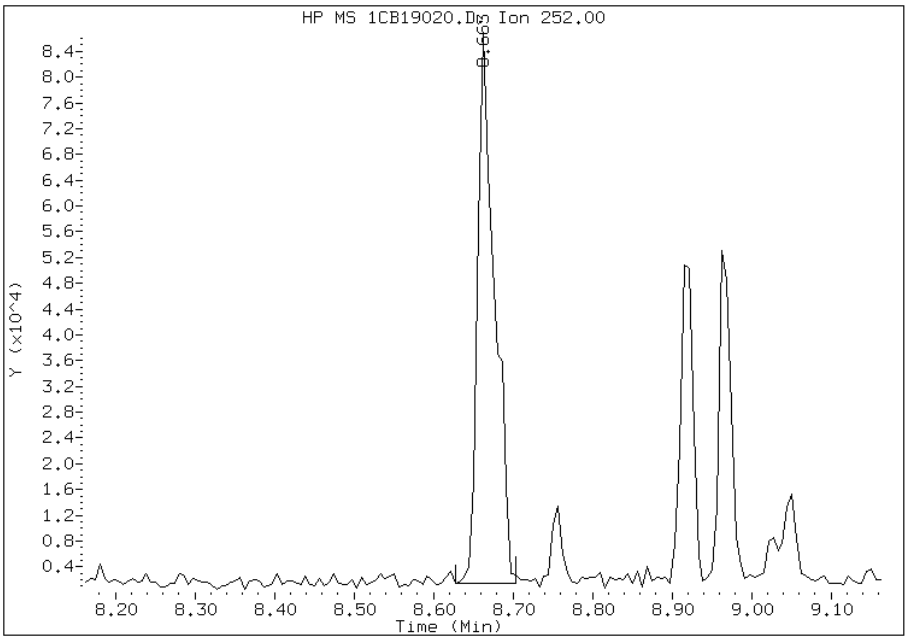
Processing Integration Results

RT: 8.66

Response: 127278

Amount: 2

Conc: 608



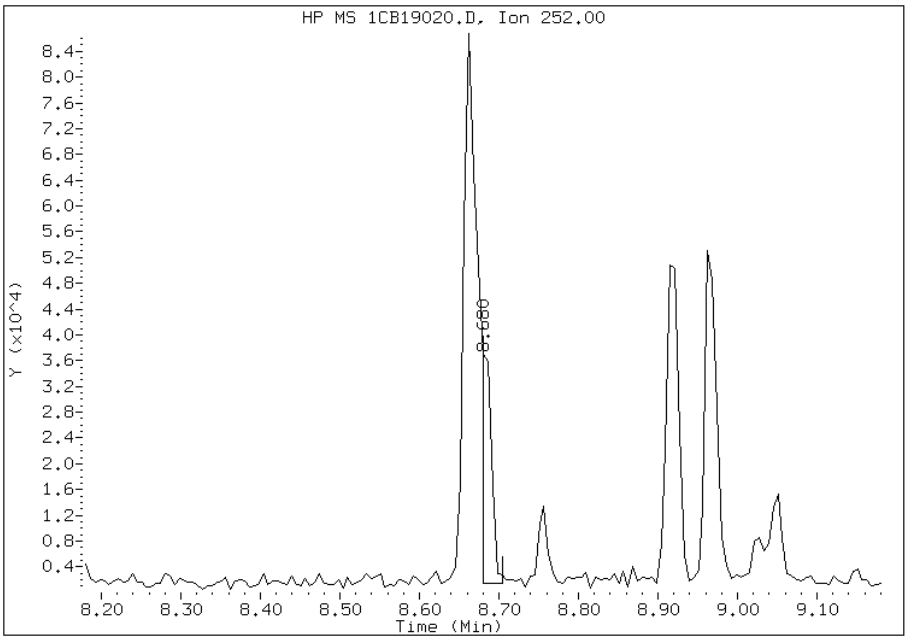
Manual Integration Results

RT: 8.68

Response: 31012

Amount: 0

Conc: 148



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19020.D
Inj. Date and Time: 19-FEB-2013 19:21
Instrument ID: BSMC5973.i
Client ID: CV0748SS-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

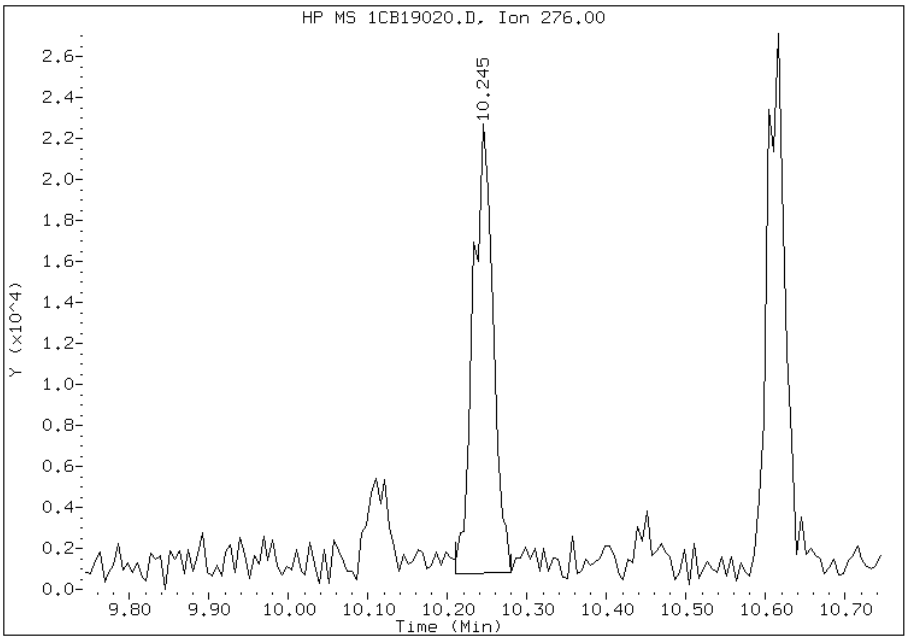
Processing Integration Results

RT: 10.24

Response: 37910

Amount: 1

Conc: 218



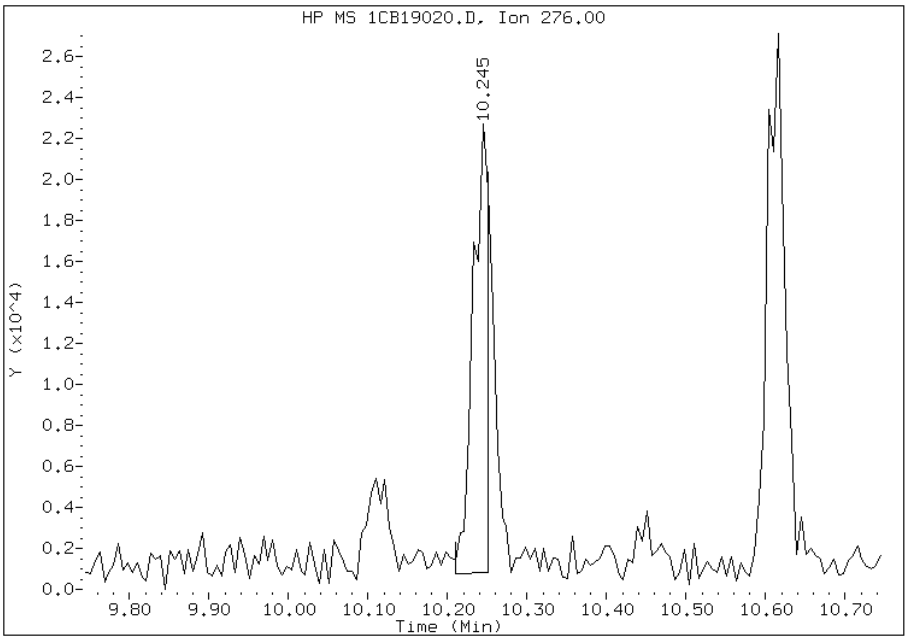
Manual Integration Results

RT: 10.24

Response: 29444

Amount: 0

Conc: 170



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:44
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748TT-CS | Lab Sample ID: 680-87320-25

Matrix: Solid | Lab File ID: 1CB19021.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 13:24

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 15.14(g) | Date Analyzed: 02/19/2013 19:39

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

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

% Moisture: 30.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	570	U	570	110
208-96-8	Acenaphthylene	68	J	230	29
120-12-7	Anthracene	110		48	24
56-55-3	Benzo[a]anthracene	630		46	22
50-32-8	Benzo[a]pyrene	550		60	30
205-99-2	Benzo[b]fluoranthene	950		70	35
191-24-2	Benzo[g,h,i]perylene	440		110	25
207-08-9	Benzo[k]fluoranthene	270		46	21
218-01-9	Chrysene	680		52	26
53-70-3	Dibenz(a,h)anthracene	110		110	24
206-44-0	Fluoranthene	970		110	23
86-73-7	Fluorene	39	J	110	24
193-39-5	Indeno[1,2,3-cd]pyrene	370		110	41
90-12-0	1-Methylnaphthalene	270		230	25
91-57-6	2-Methylnaphthalene	280		230	41
91-20-3	Naphthalene	220	J	230	25
85-01-8	Phenanthrene	630		46	22
129-00-0	Pyrene	940		110	21

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19021.D
Lab Smp Id: 680-87320-A-25-A Client Smp ID: CV0748TT-CS
Inj Date : 19-FEB-2013 19:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-25-a
Misc Info : 680-87320-A-25-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 21
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	30.922	% 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	3.815	3.816	(1.000)	2158204	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1628888	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2915390	40.0000	
$ 14 o-Terphenyl	230	6.109	6.110	(1.043)	100051	2.34218	895.8059
* 18 Chrysene-d12	240	7.803	7.809	(1.000)	2868916	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2710405	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	33098	0.57874	221.3498
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	27558	0.74108	283.4406
4 1-Methylnaphthalene	142	4.315	4.316	(1.131)	23452	0.69343	265.2151
5 Acenaphthylene	152	4.815	4.816	(0.982)	11556	0.17832	68.2024
9 Fluorene	166	5.239	5.245	(1.068)	5290	0.10139	38.7796(Q)
11 Phenanthrene	178	5.874	5.874	(1.003)	143824	1.65272	632.1129
12 Anthracene	178	5.909	5.910	(1.009)	21930	0.27970	106.9774
13 Carbazole	167	6.009	6.015	(1.026)	18814	0.27626	105.6585

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	215604	2.53553	969.7591
16 Pyrene	202	6.880	6.886	(0.882)	187341	2.45283	938.1269
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	130170	1.64534	629.2891
19 Chrysene	228	7.821	7.827	(1.002)	145620	1.78192	681.5260
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	165178	2.48574	950.7138(M)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	51989	0.71017	271.6177(QM)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	91008	1.43929	550.4815
24 Indeno(1,2,3-cd)pyrene	276	10.244	10.251	(1.135)	58604	0.96496	369.0649(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	17154	0.29952	114.5568(M)
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	71092	1.15237	440.7454

QC Flag Legend

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

Data File: 1CB19021.D

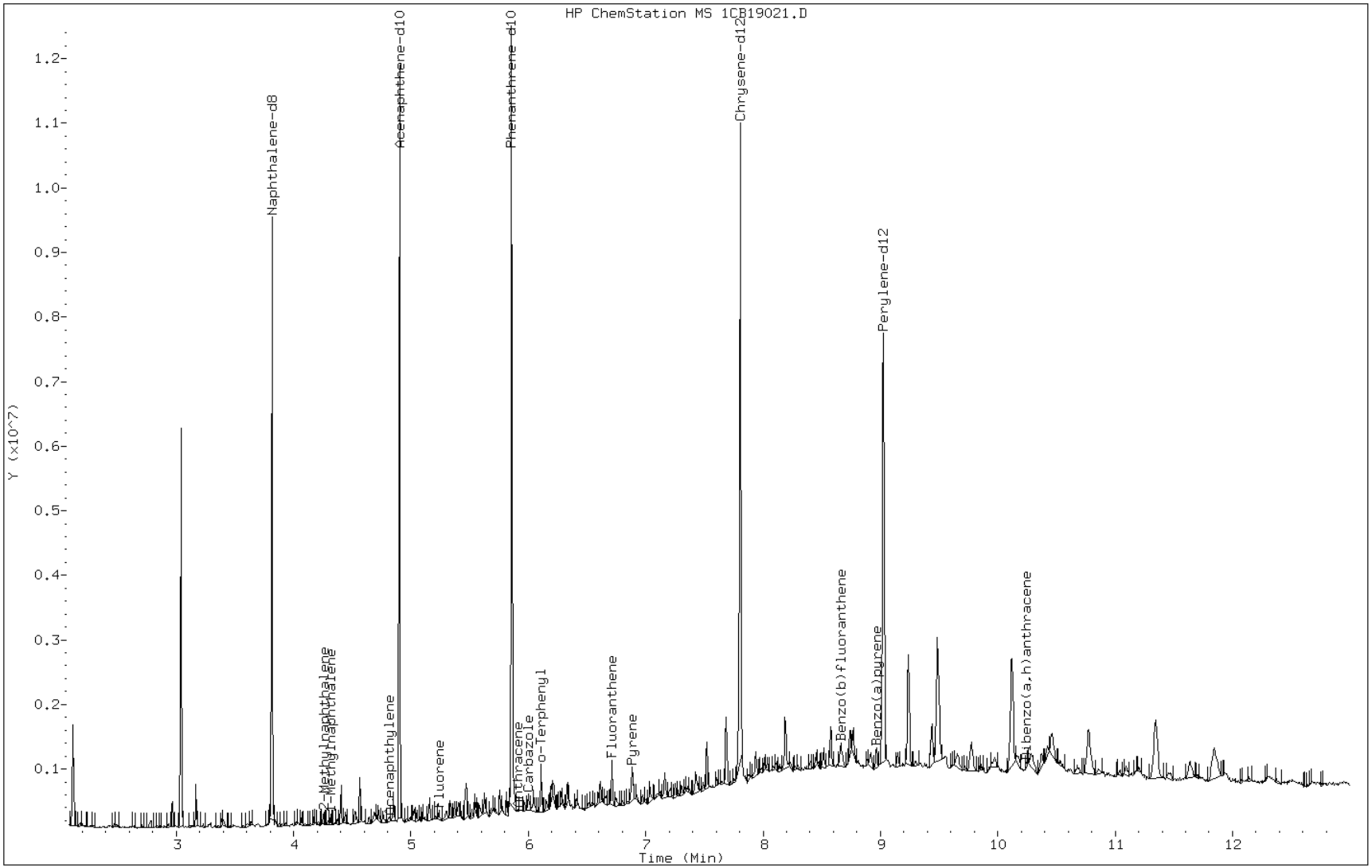
Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a

Operator: SCC



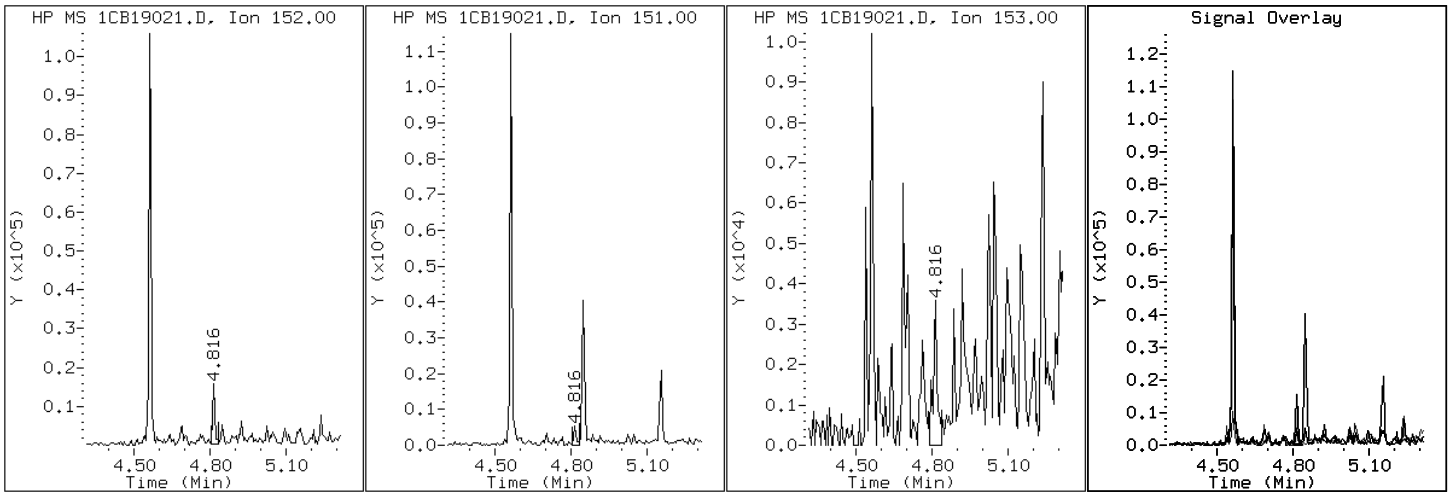
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

5 Acenaphthylene



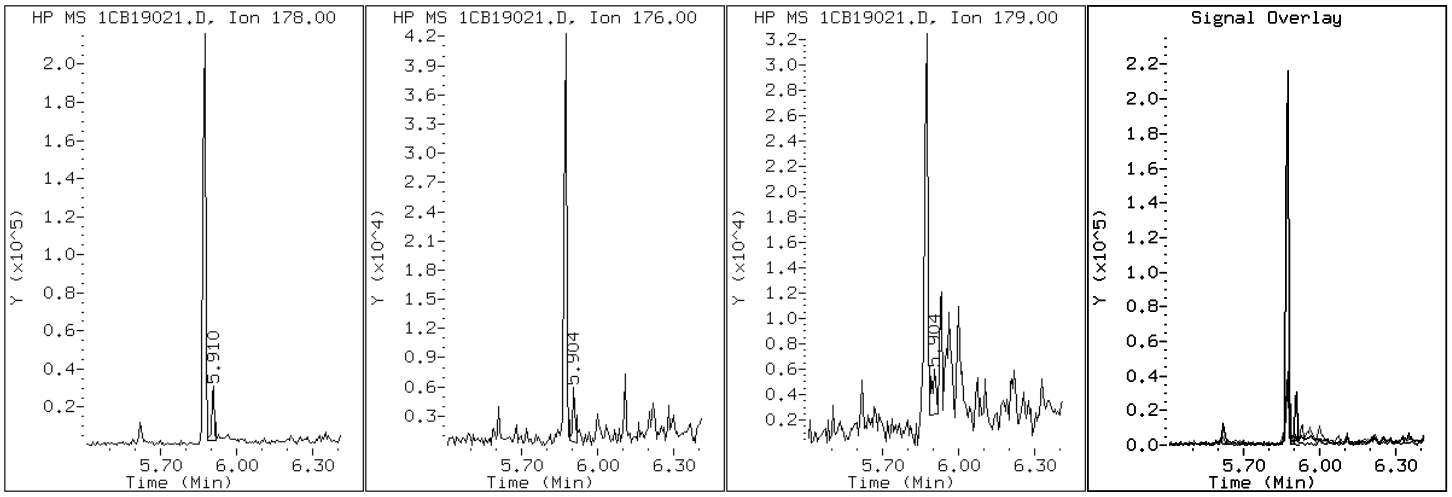
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

12 Anthracene



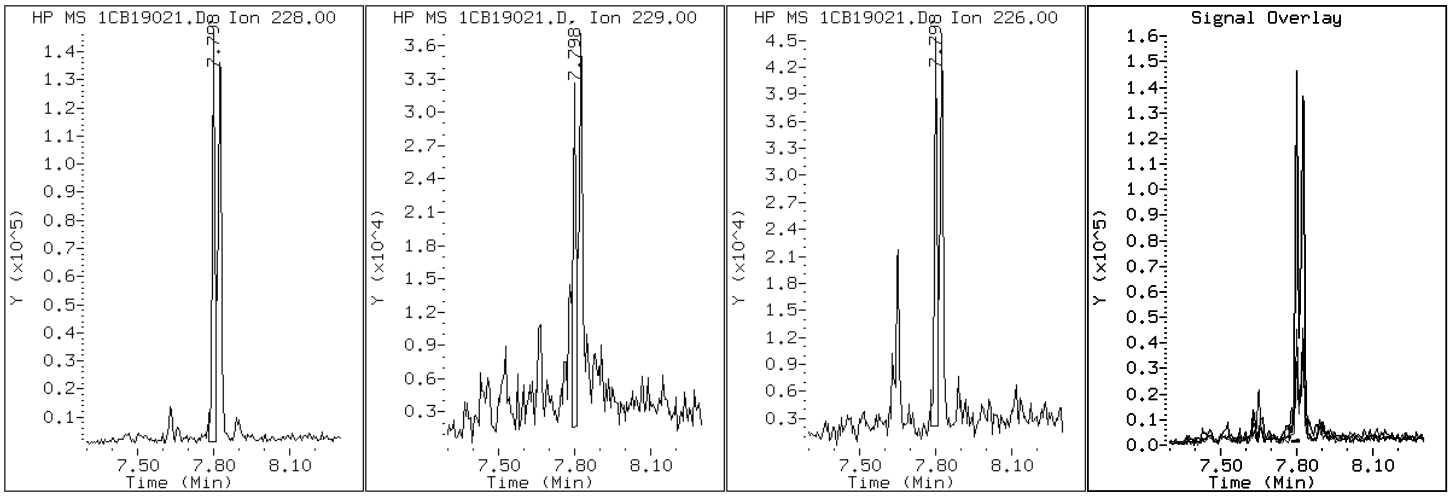
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

17 Benzo(a)anthracene



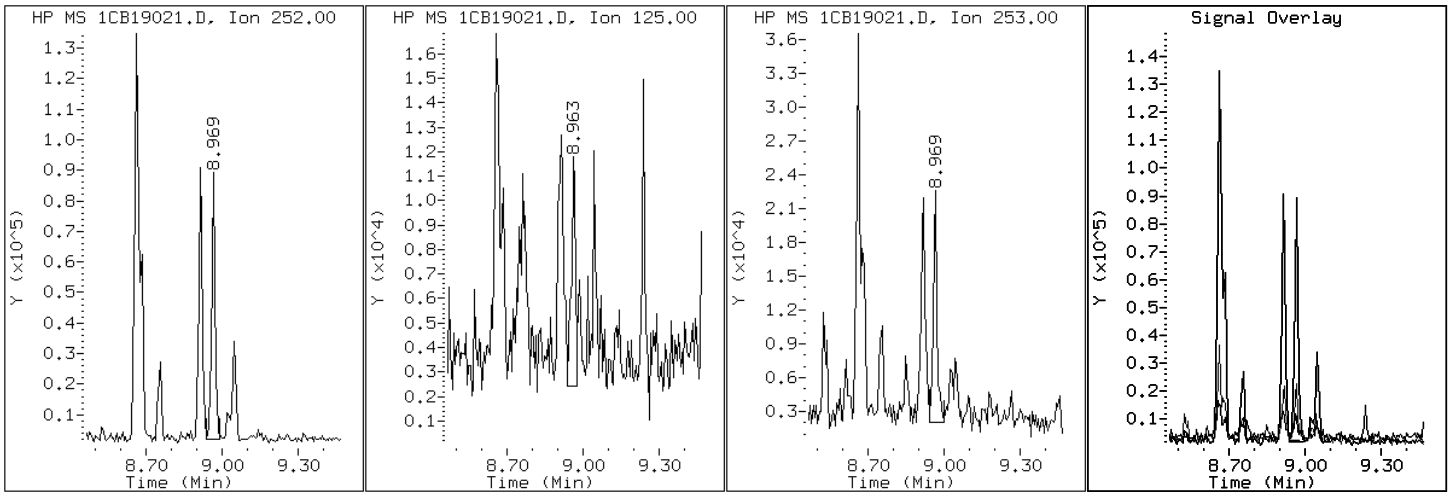
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

22 Benzo(a)pyrene



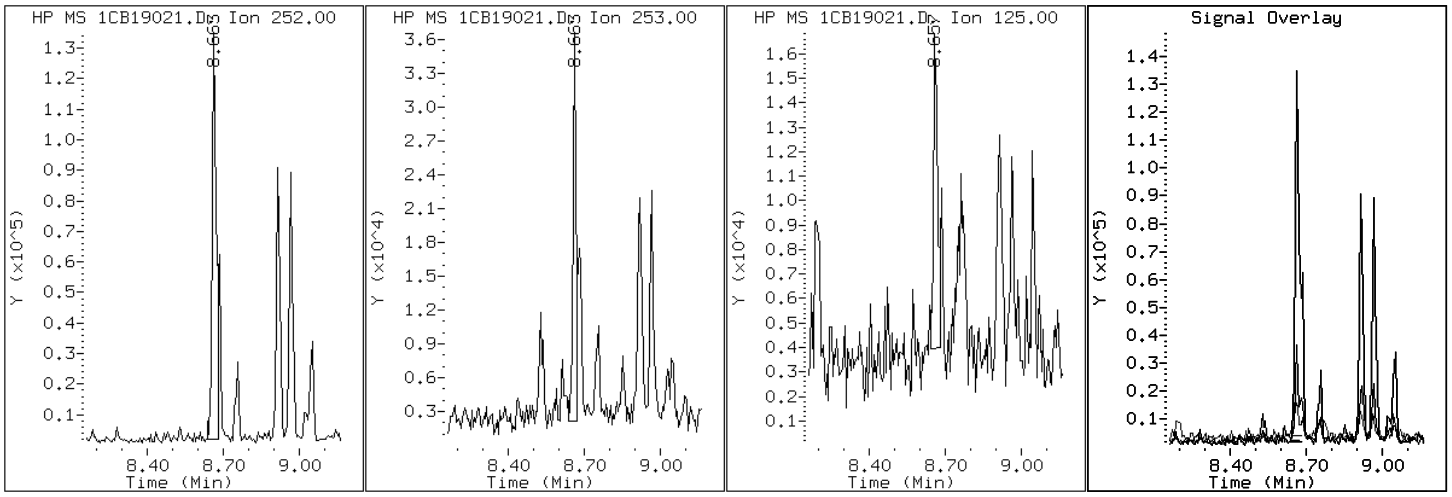
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

20 Benzo(b)fluoranthene



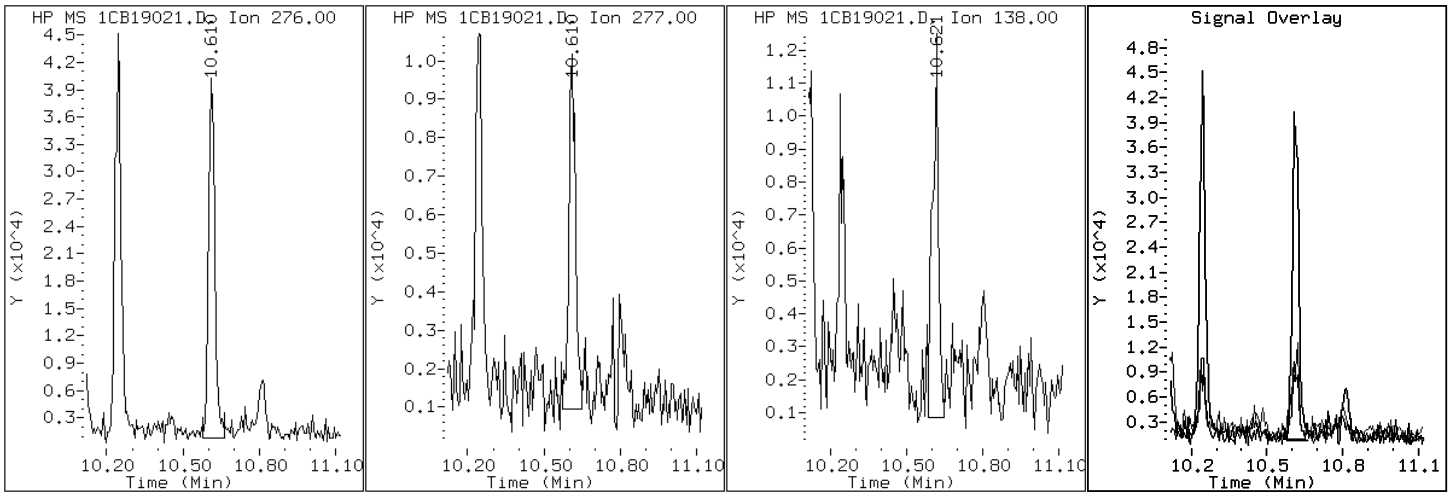
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

26 Benzo(g,h,i)perylene



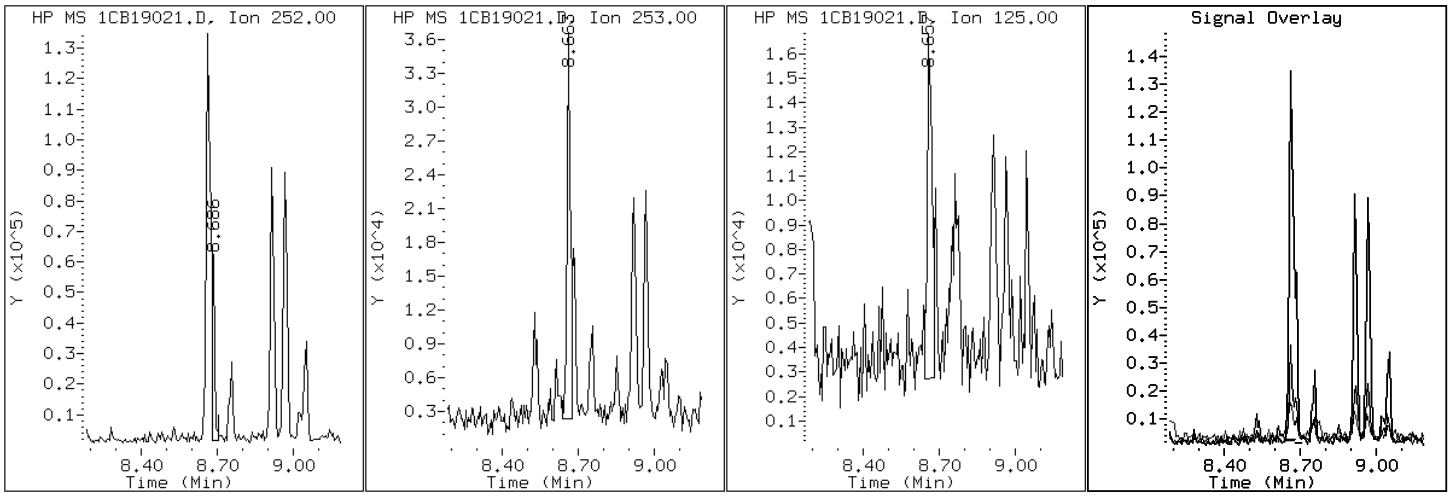
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

21 Benzo(k)fluoranthene



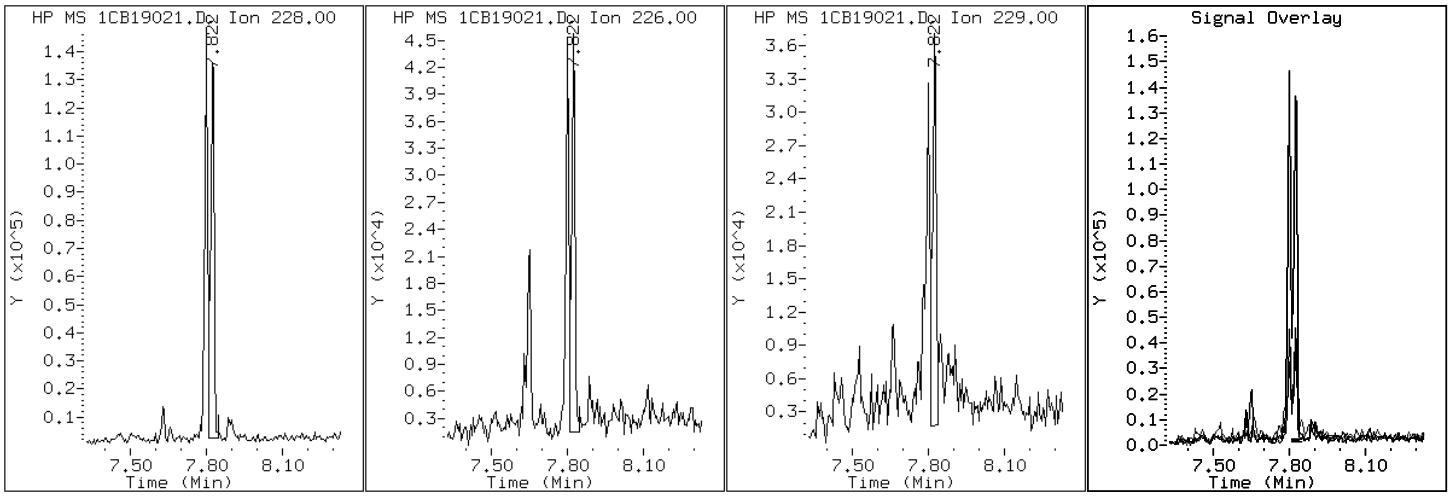
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

19 Chrysene



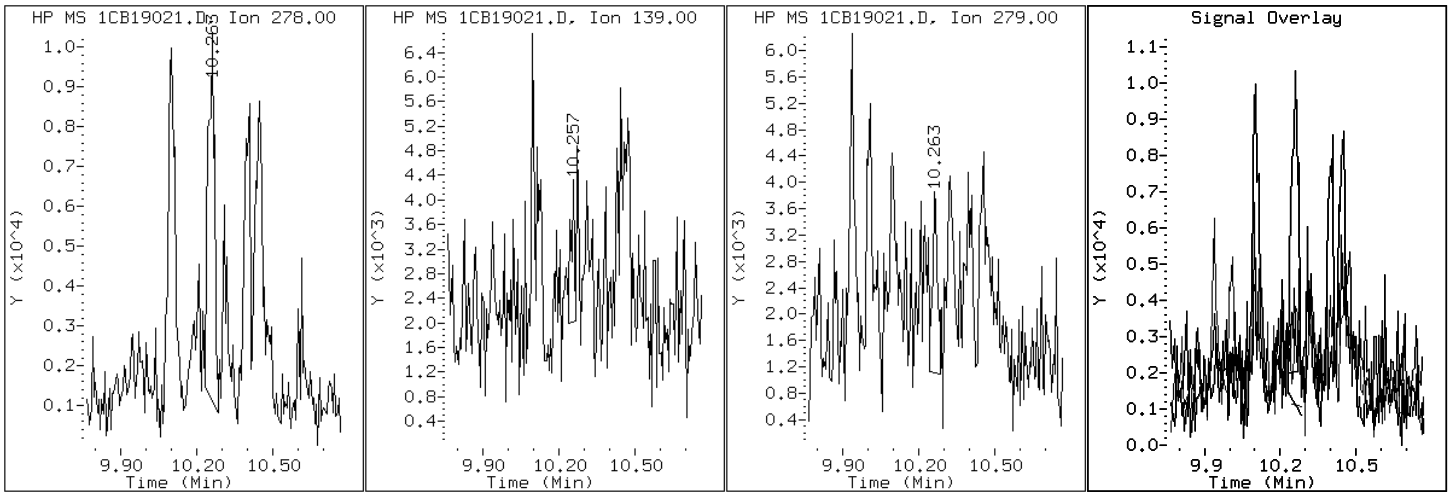
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

25 Dibenzo(a,h)anthracene



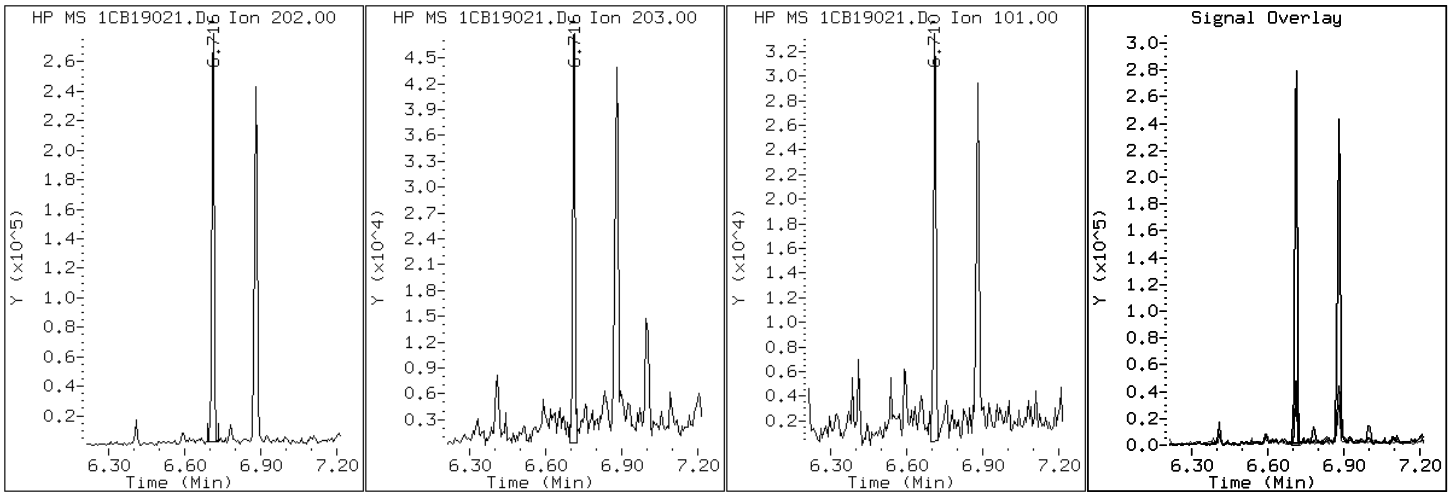
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

15 Fluoranthene



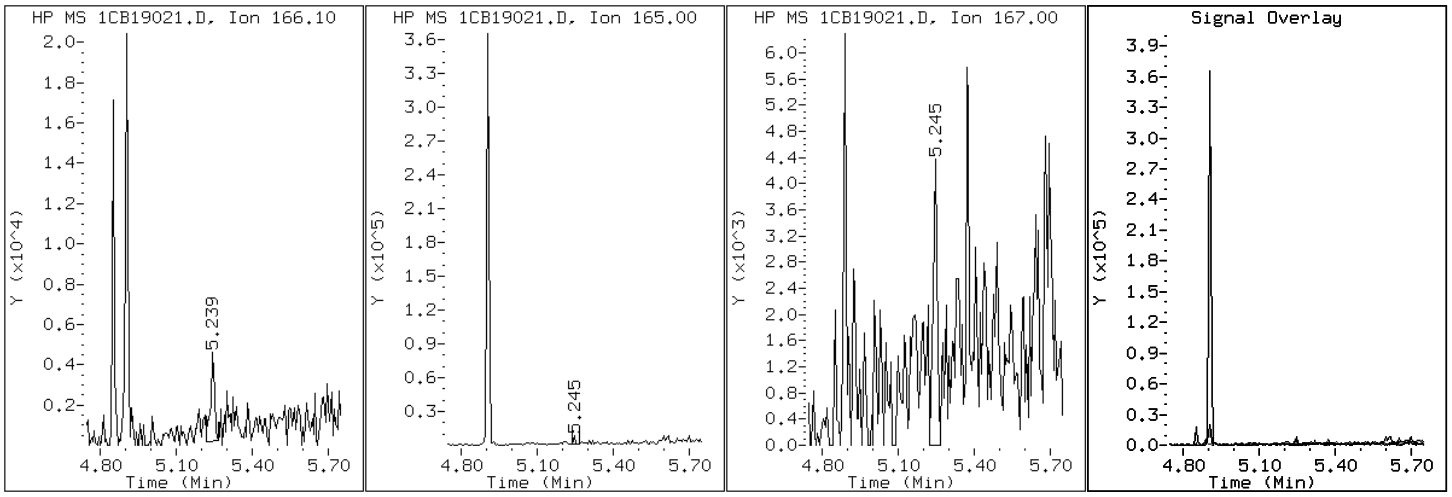
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

9 Fluorene



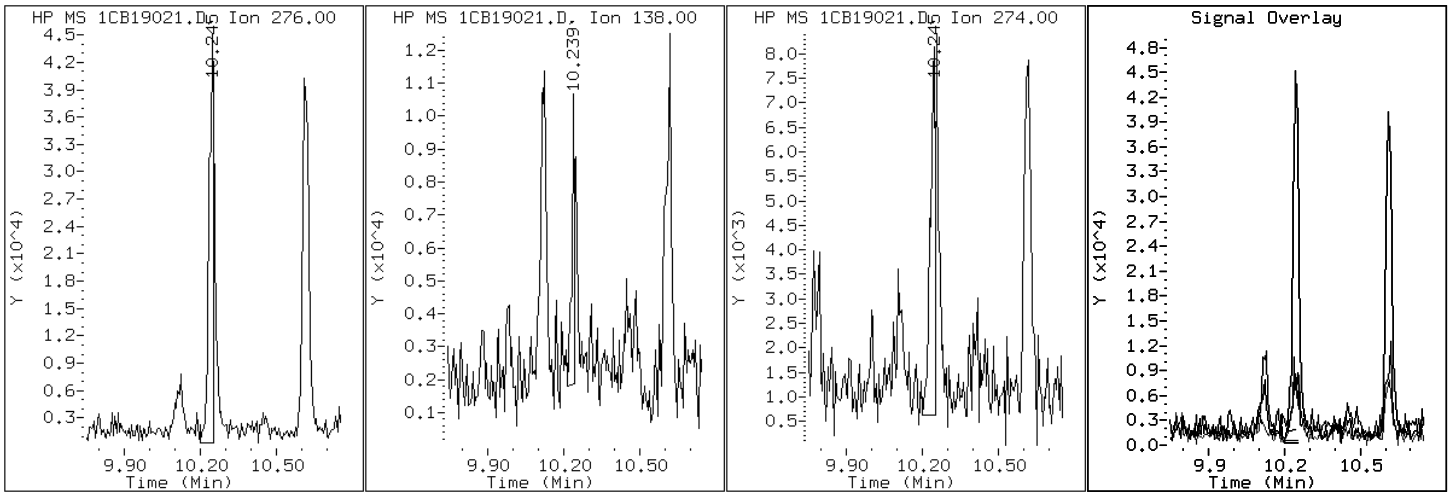
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

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



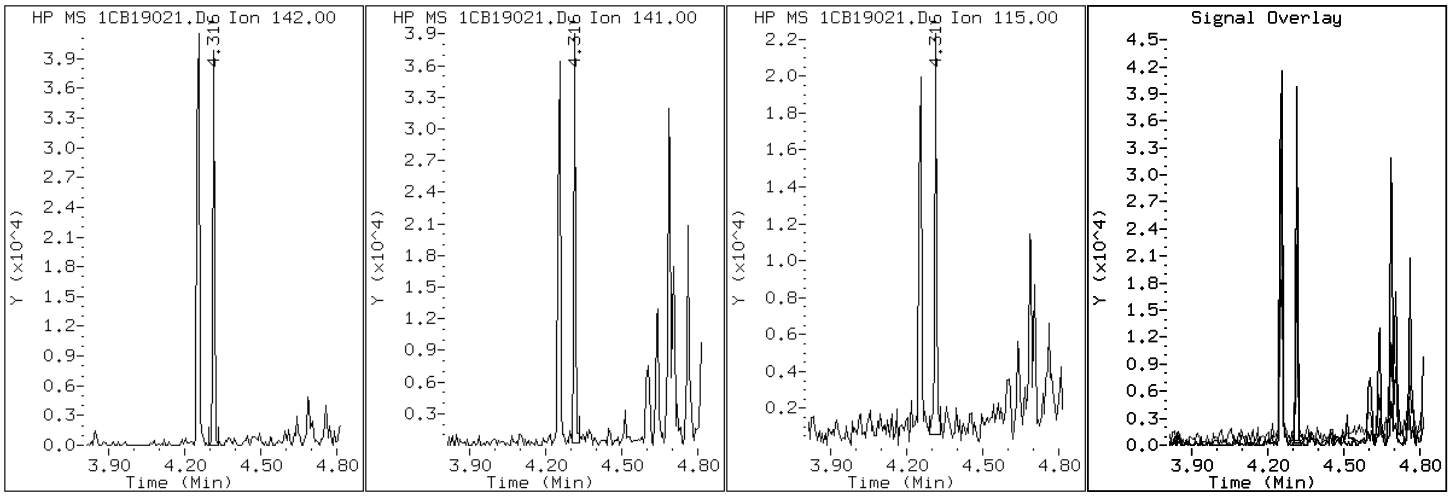
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

4 1-Methylnaphthalene



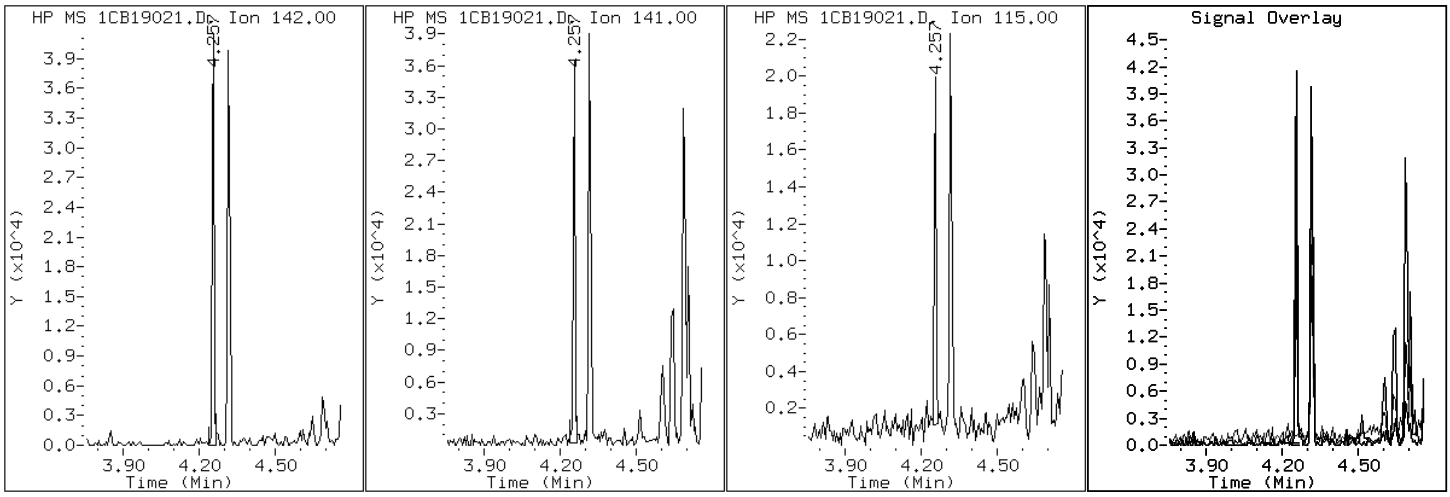
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

3 2-Methylnaphthalene



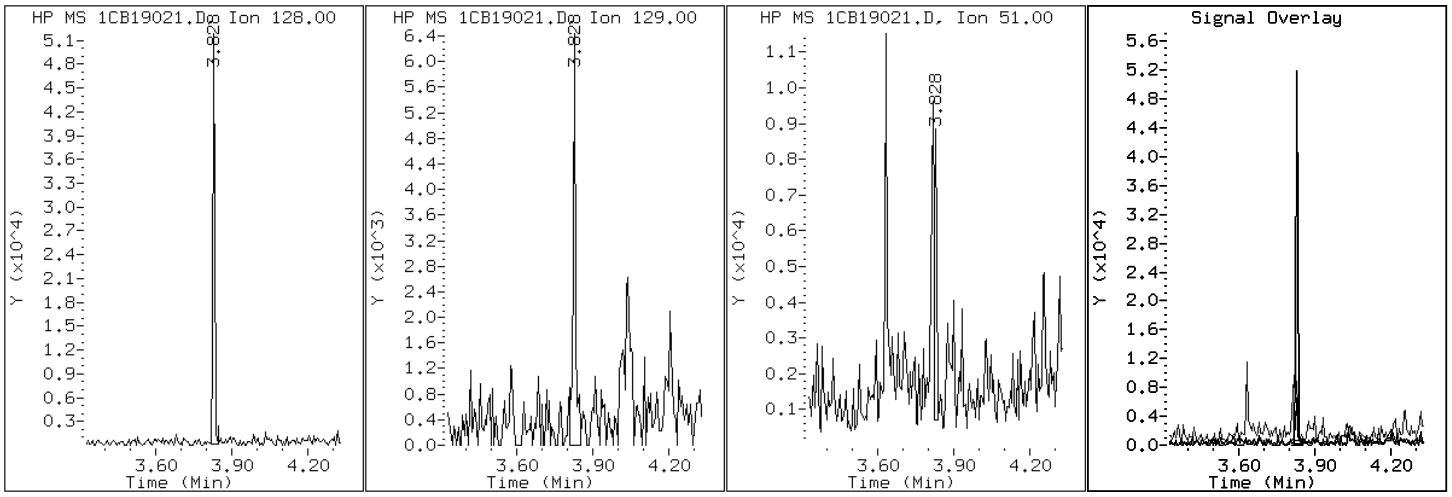
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

2 Naphthalene



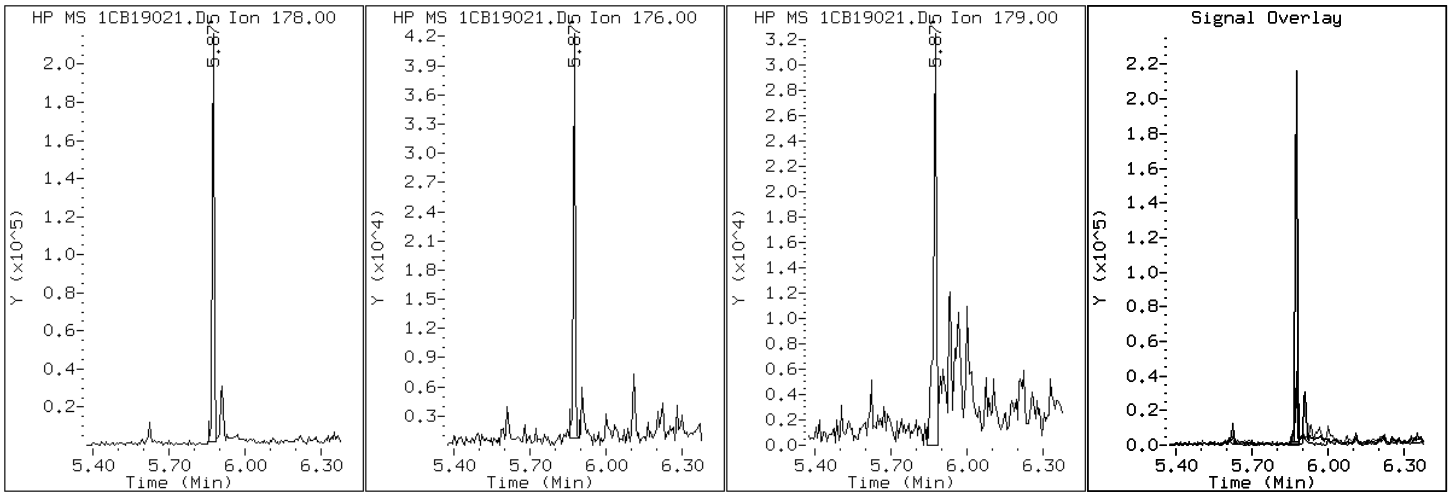
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

11 Phenanthrene



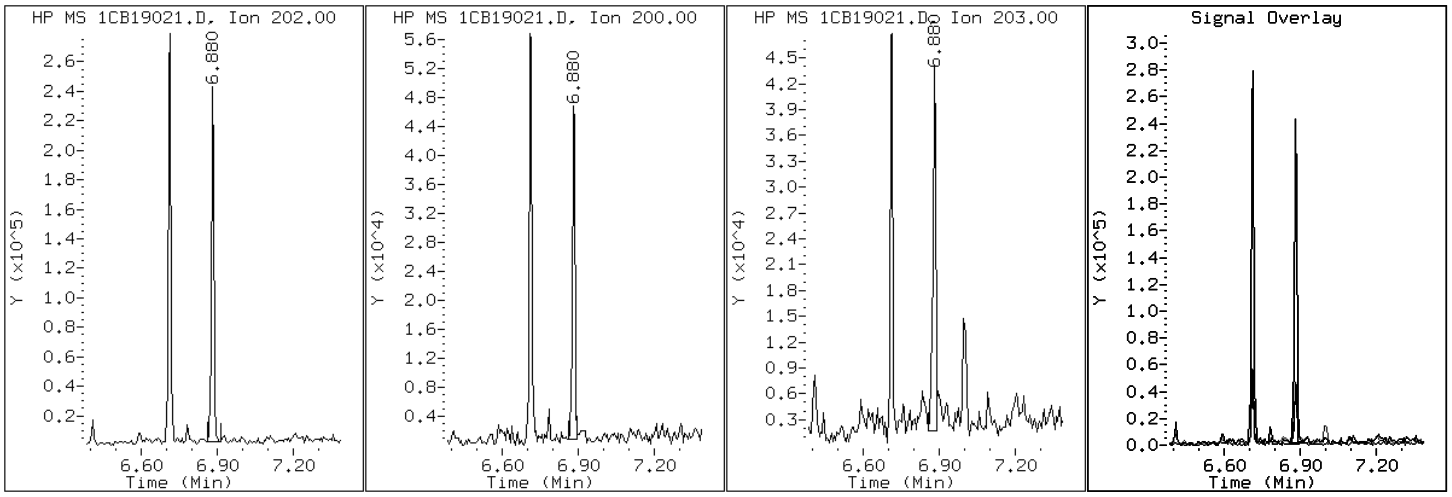
Data File: 1CB19021.D

Date: 19-FEB-2013 19:39

Client ID: CV0748TT-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-25-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19021.D
Inj. Date and Time: 19-FEB-2013 19:39
Instrument ID: BSMC5973.i
Client ID: CV0748TT-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

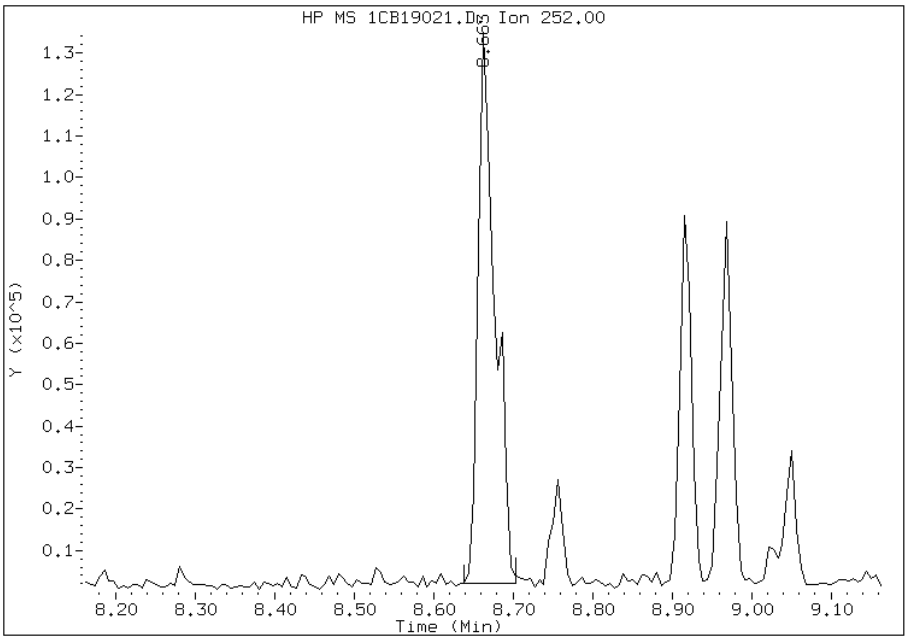
Processing Integration Results

RT: 8.66

Response: 198240

Amount: 3

Conc: 1141



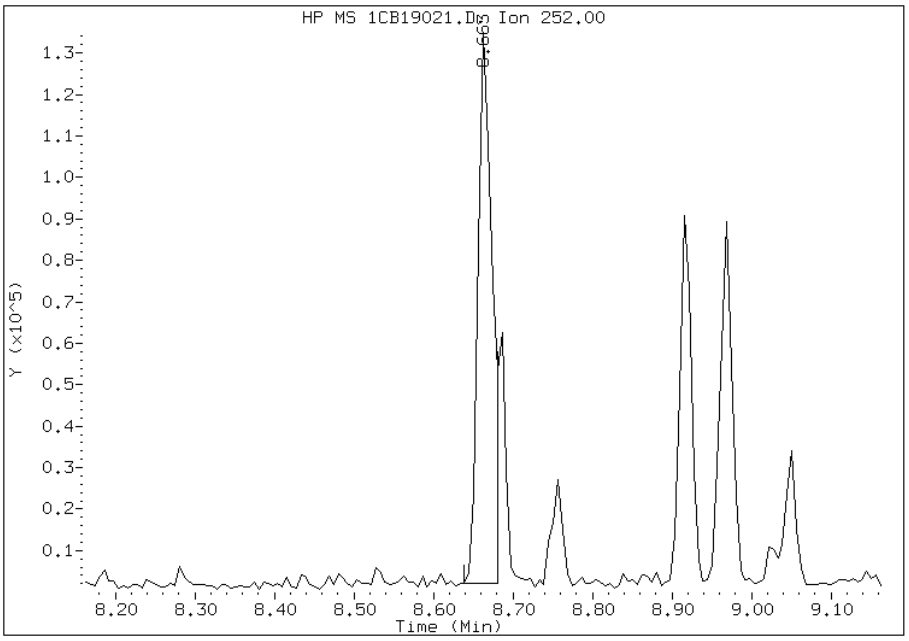
Manual Integration Results

RT: 8.66

Response: 165178

Amount: 2

Conc: 951



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19021.D
Inj. Date and Time: 19-FEB-2013 19:39
Instrument ID: BSMC5973.i
Client ID: CV0748TT-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

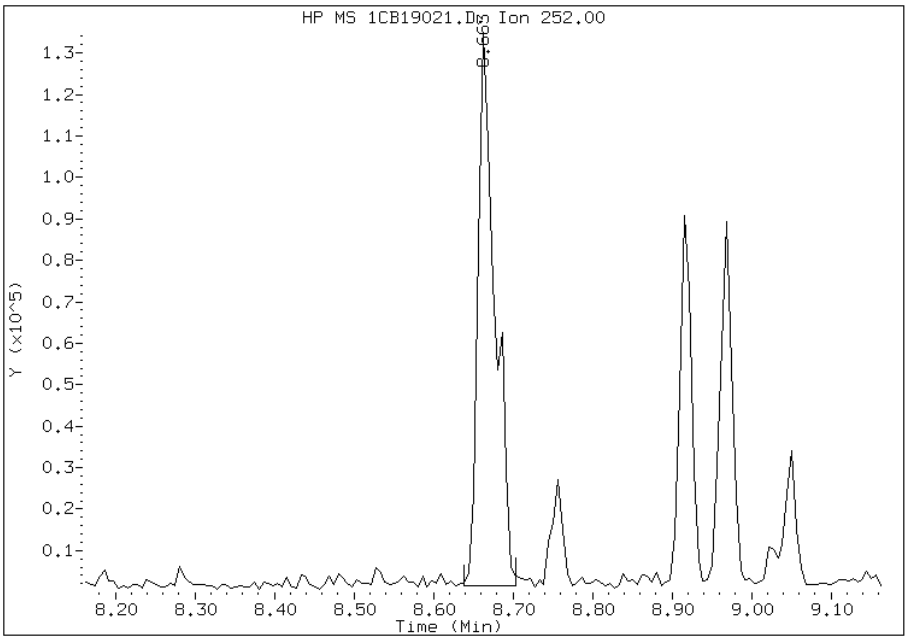
Processing Integration Results

RT: 8.66

Response: 200068

Amount: 3

Conc: 1045



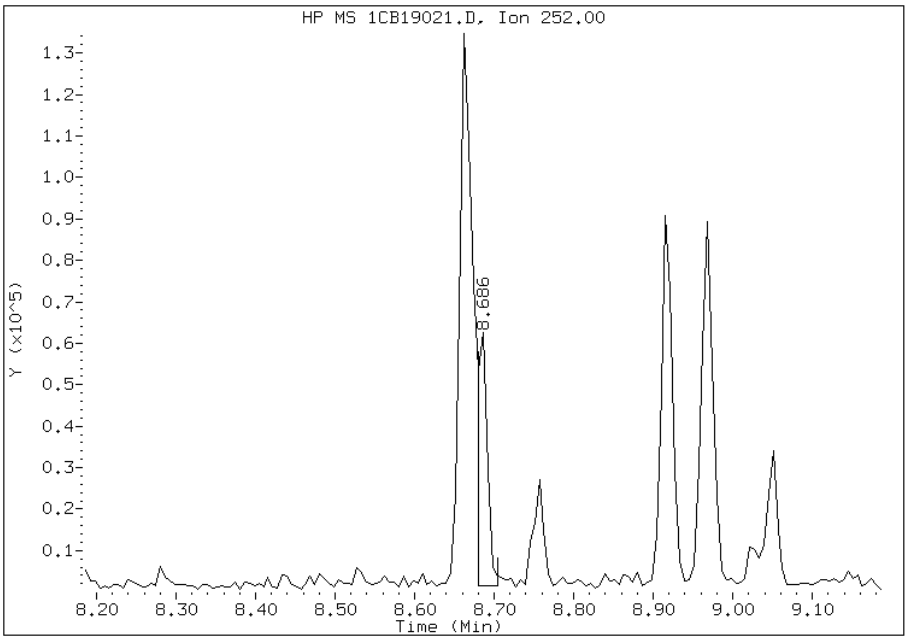
Manual Integration Results

RT: 8.69

Response: 51989

Amount: 1

Conc: 272



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19021.D
Inj. Date and Time: 19-FEB-2013 19:39
Instrument ID: BSMC5973.i
Client ID: CV0748TT-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/20/2013

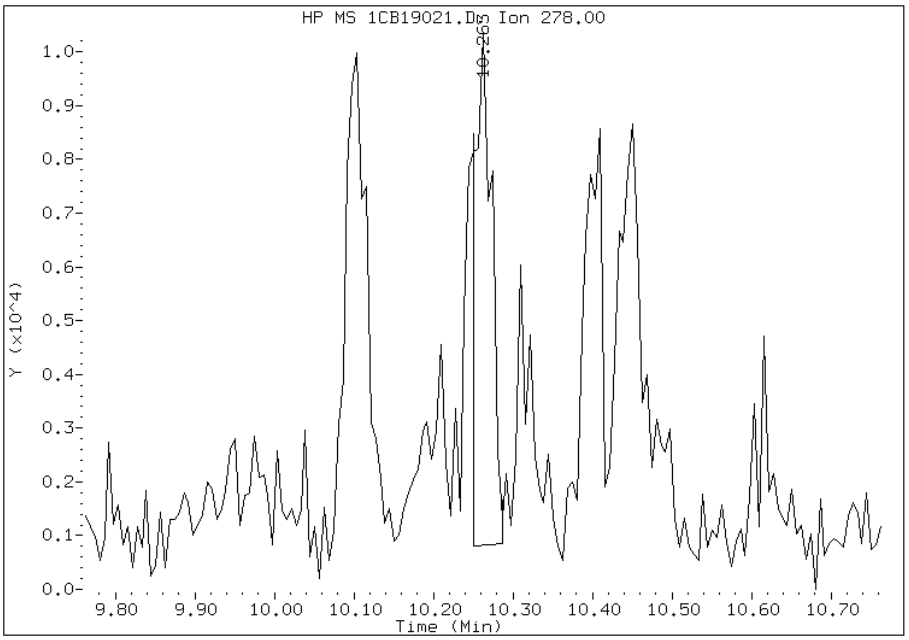
Processing Integration Results

RT: 10.26

Response: 14053

Amount: 0

Conc: 94



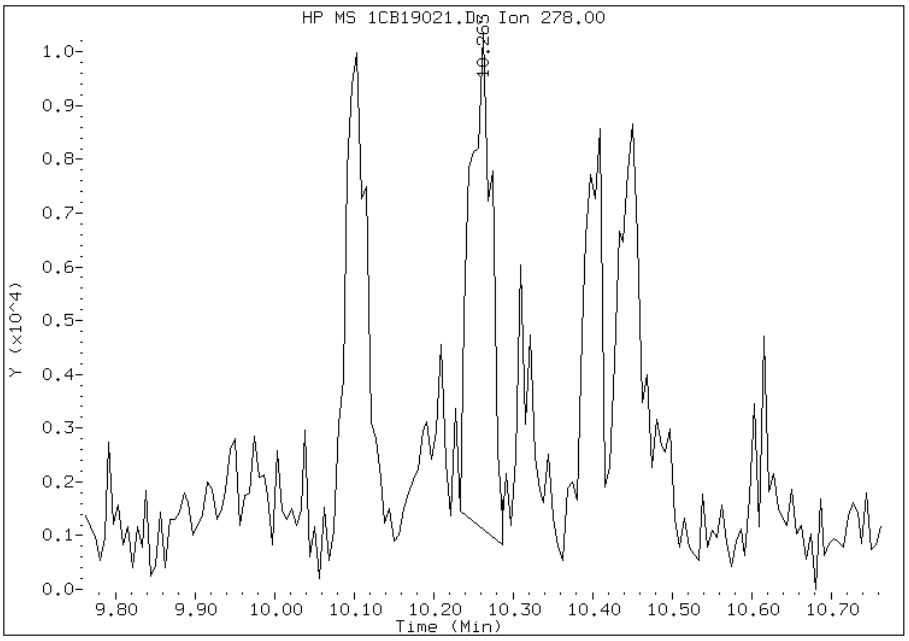
Manual Integration Results

RT: 10.26

Response: 17154

Amount: 0

Conc: 115



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19021.D
Inj. Date and Time: 19-FEB-2013 19:39
Instrument ID: BSMC5973.i
Client ID: CV0748TT-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

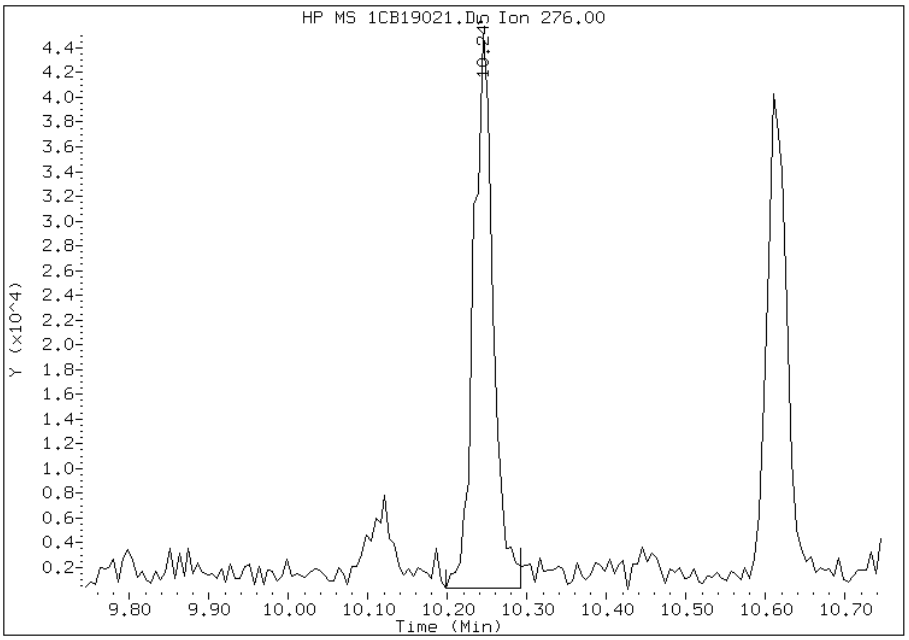
Processing Integration Results

RT: 10.24

Response: 76989

Amount: 1

Conc: 485



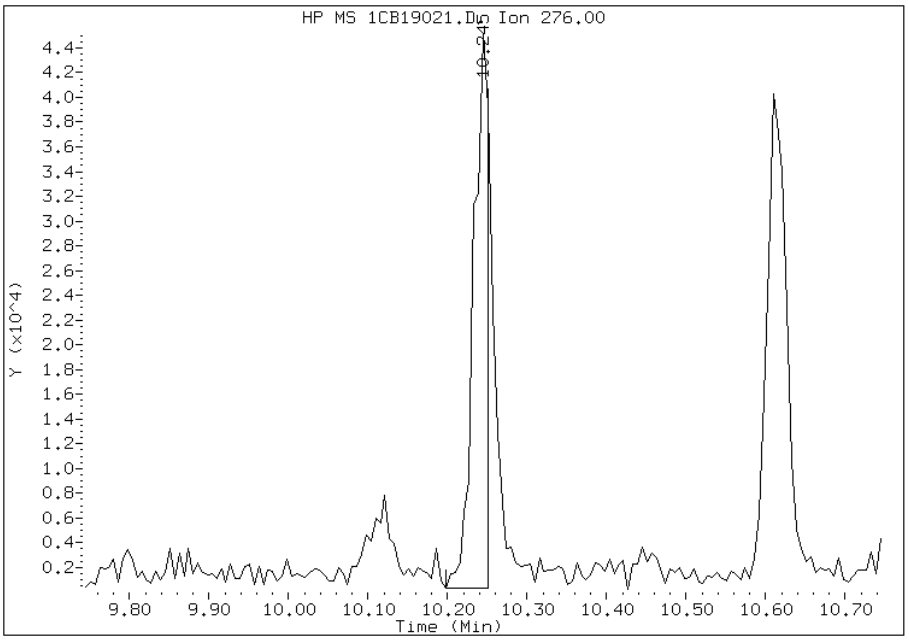
Manual Integration Results

RT: 10.24

Response: 58604

Amount: 1

Conc: 369



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748UU-CS | Lab Sample ID: 680-87320-26

Matrix: Solid | Lab File ID: 1CB19022.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 13:49

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 15.16(g) | Date Analyzed: 02/19/2013 19:57

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

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

% Moisture: 24.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	55	J	210	26
120-12-7	Anthracene	87		44	22
56-55-3	Benzo[a]anthracene	450		42	20
50-32-8	Benzo[a]pyrene	420		54	27
205-99-2	Benzo[b]fluoranthene	700		64	32
191-24-2	Benzo[g,h,i]perylene	300		100	23
207-08-9	Benzo[k]fluoranthene	210		42	19
218-01-9	Chrysene	530		47	23
53-70-3	Dibenz(a,h)anthracene	97	J	100	21
206-44-0	Fluoranthene	660		100	21
86-73-7	Fluorene	24	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	240		100	37
90-12-0	1-Methylnaphthalene	270		210	23
91-57-6	2-Methylnaphthalene	260		210	37
91-20-3	Naphthalene	160	J	210	23
85-01-8	Phenanthrene	520		42	20
129-00-0	Pyrene	670		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	104		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19022.D
Lab Smp Id: 680-87320-A-26-A Client Smp ID: CV0748UU-CS
Inj Date : 19-FEB-2013 19:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-26-a
Misc Info : 680-87320-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 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	15.160	Weight Extracted
M	24.050	% 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	3.815	3.816	(1.000)	2209761	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1674530	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2899386	40.0000	
$ 14 o-Terphenyl	230	6.109	6.110	(1.043)	110273	2.59572	901.7605
* 18 Chrysene-d12	240	7.803	7.809	(1.000)	2902467	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2697708	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	27398	0.46790	162.5483
3 2-Methylnaphthalene	142	4.251	4.257	(1.114)	28442	0.74701	259.5139
4 1-Methylnaphthalene	142	4.315	4.316	(1.131)	27368	0.79034	274.5664
5 Acenaphthylene	152	4.815	4.816	(0.982)	10473	0.15721	54.6136
9 Fluorene	166	5.245	5.245	(1.070)	3769	0.07027	24.4124(Q)
11 Phenanthrene	178	5.874	5.874	(1.003)	129723	1.49891	520.7267
12 Anthracene	178	5.904	5.910	(1.008)	19524	0.25039	86.9865
13 Carbazole	167	6.015	6.015	(1.027)	14057	0.20755	72.1017(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	160641	1.89959	659.9226
16 Pyrene	202	6.886	6.886	(0.882)	149801	1.93865	673.4928
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	104085	1.30042	451.7695
19 Chrysene	228	7.827	7.827	(1.003)	125385	1.51657	526.8614
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	133543	2.01913	701.4503(M)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	44360	0.60881	211.5029(M)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	75454	1.19892	416.5083
24 Indeno(1,2,3-cd)pyrene	276	10.244	10.251	(1.135)	41002	0.67831	235.6452(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	15939	0.27962	97.1392
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.176)	53240	0.86706	301.2196

QC Flag Legend

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

Data File: 1CB19022.D

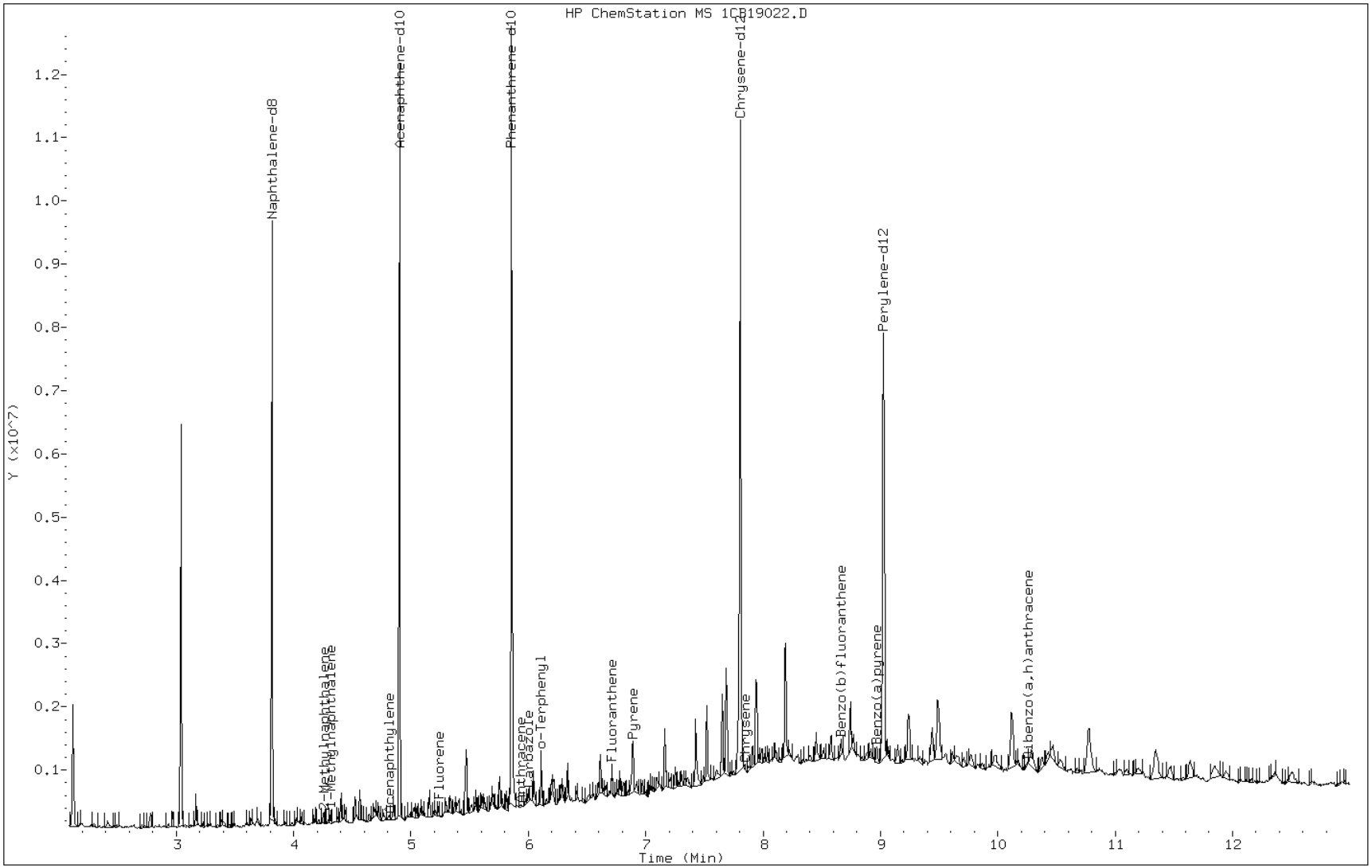
Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a

Operator: SCC



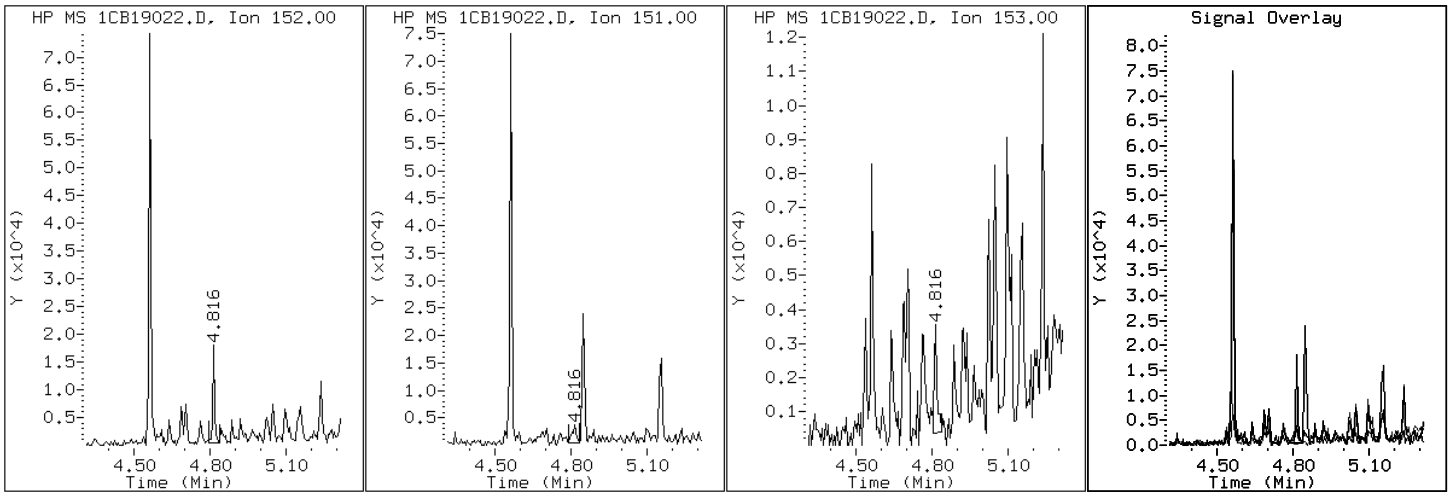
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

5 Acenaphthylene



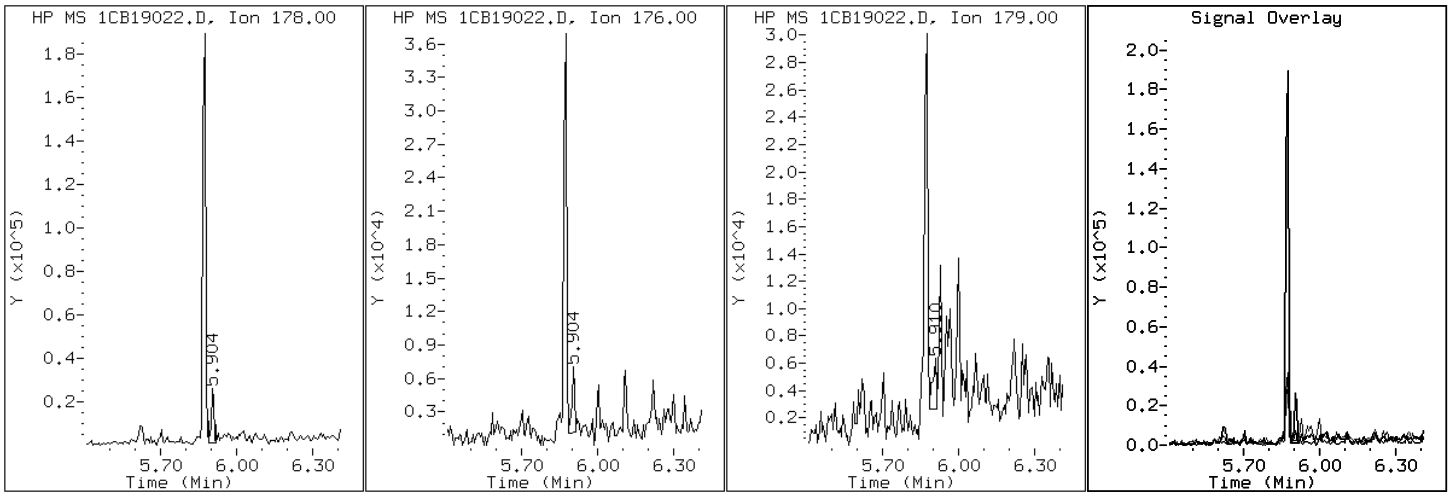
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

12 Anthracene



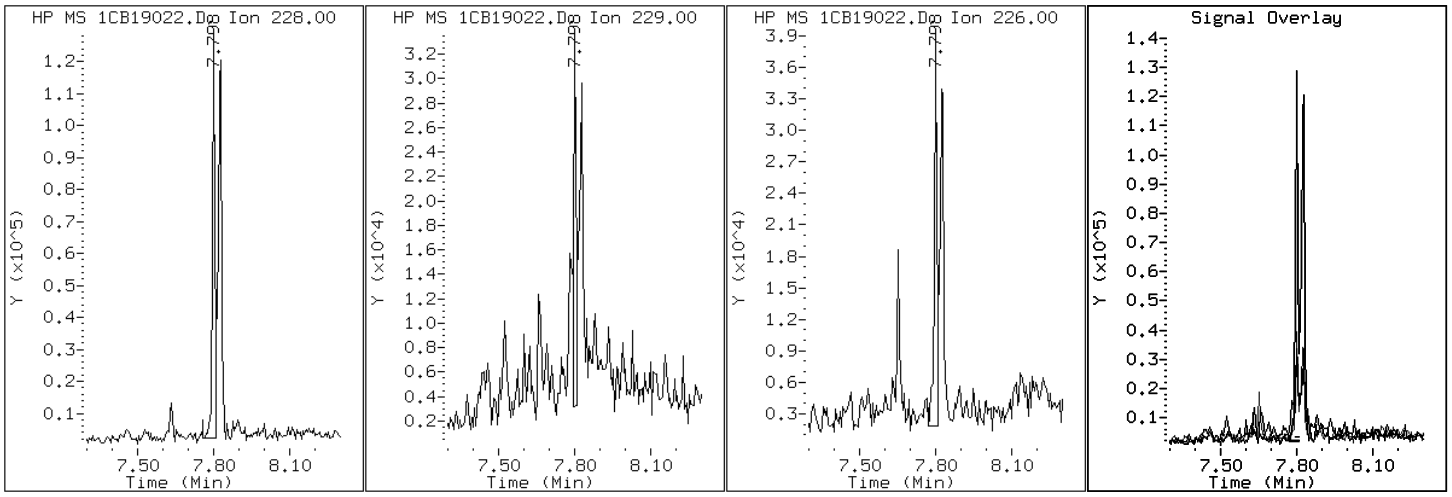
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

17 Benzo(a)anthracene



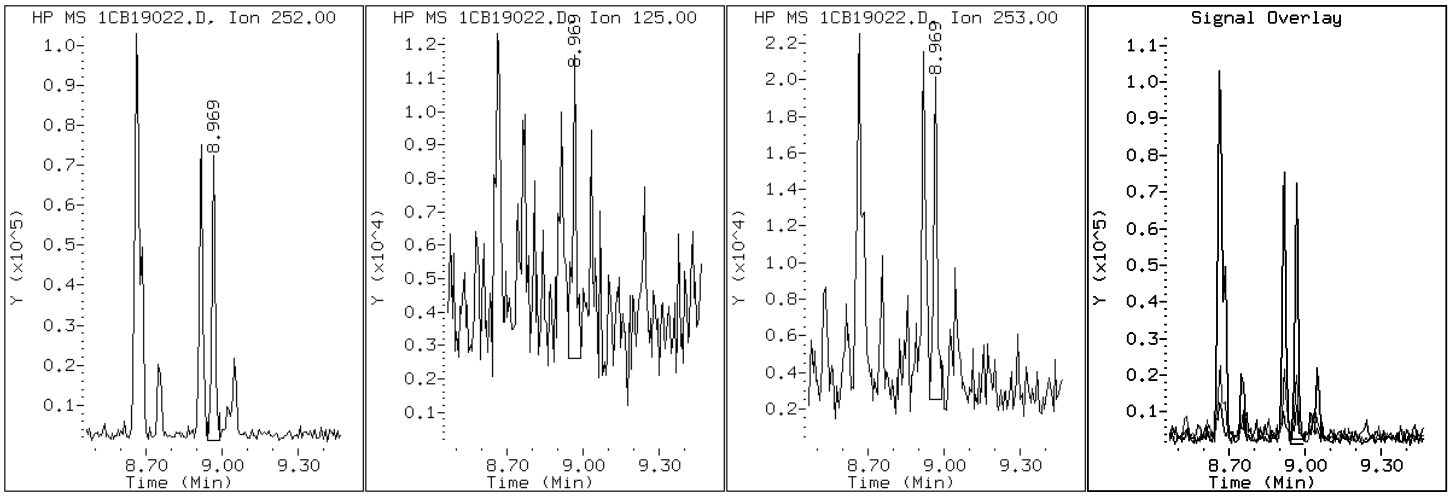
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

22 Benzo(a)pyrene



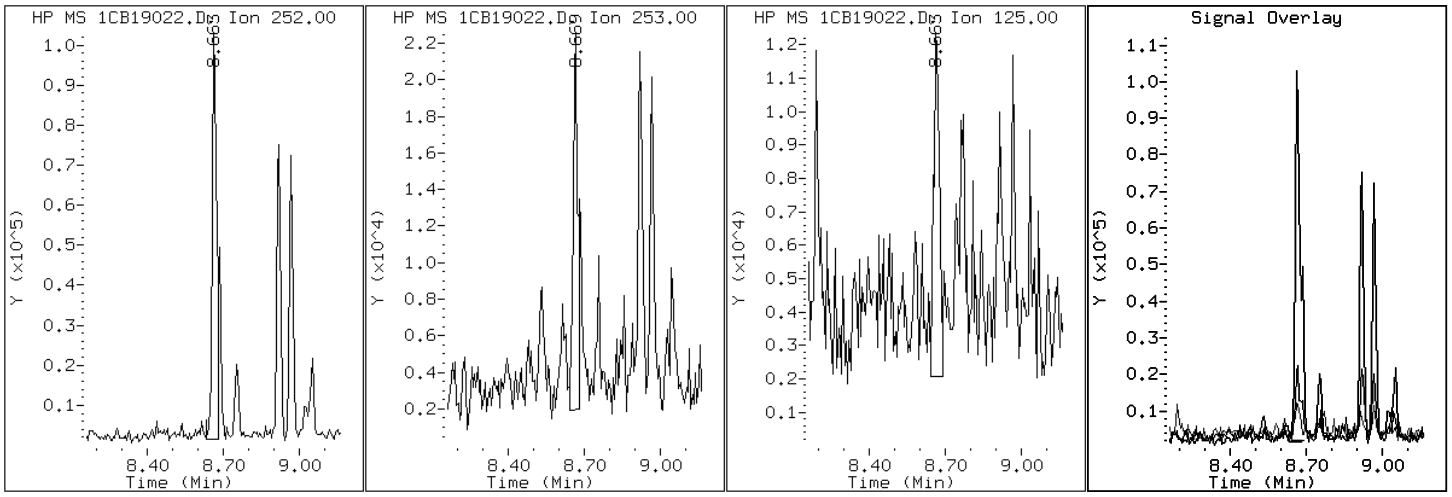
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

20 Benzo(b)fluoranthene



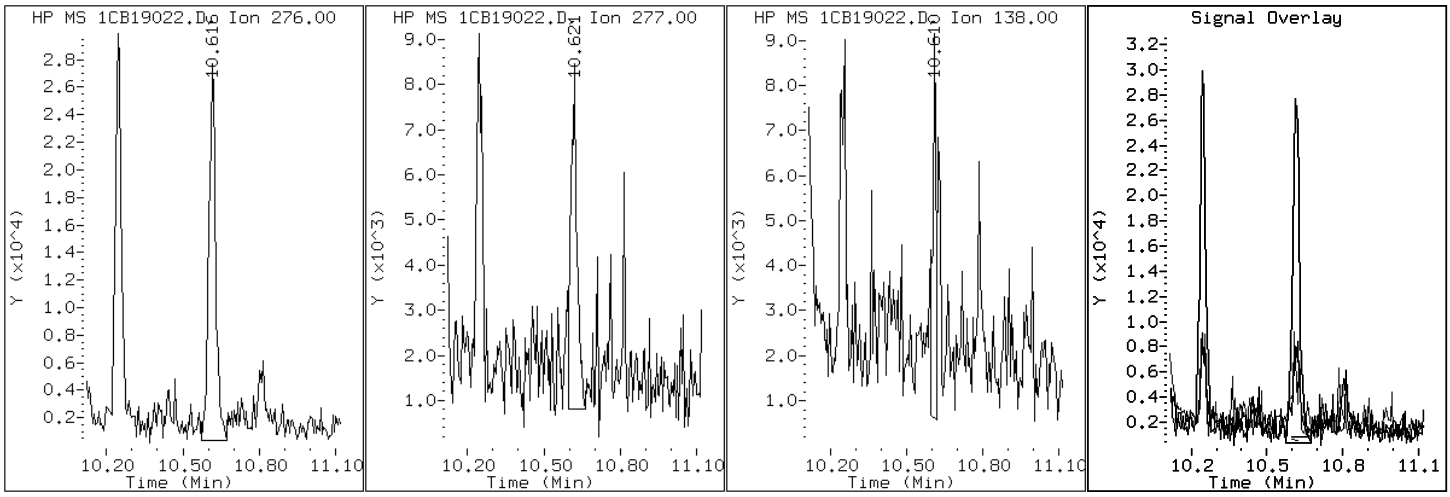
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

26 Benzo(g,h,i)perylene



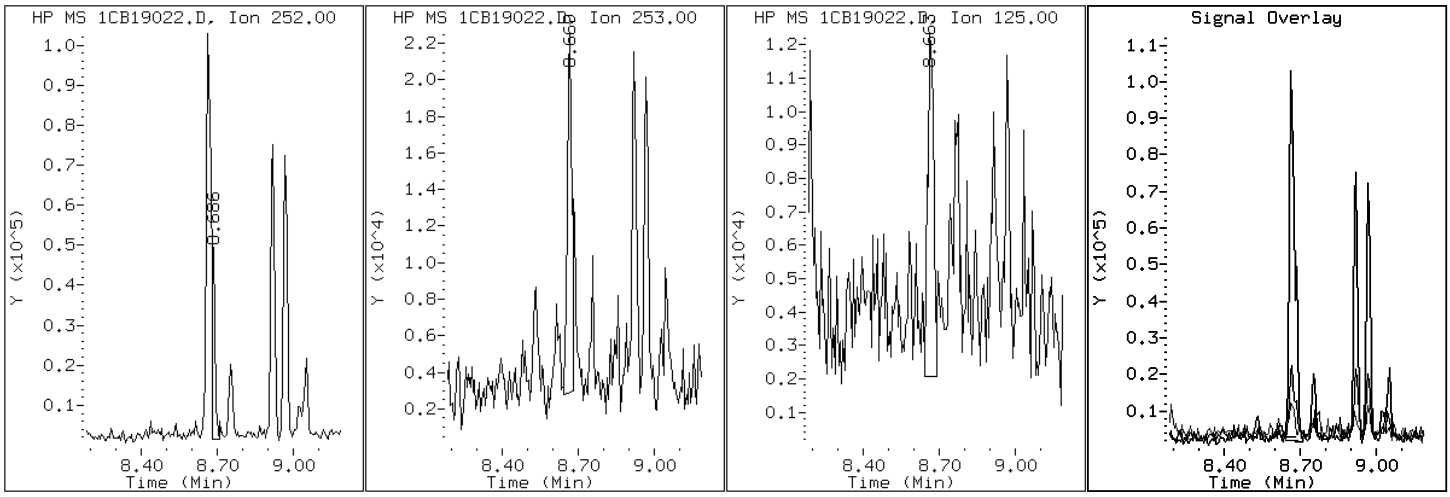
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

21 Benzo(k)fluoranthene



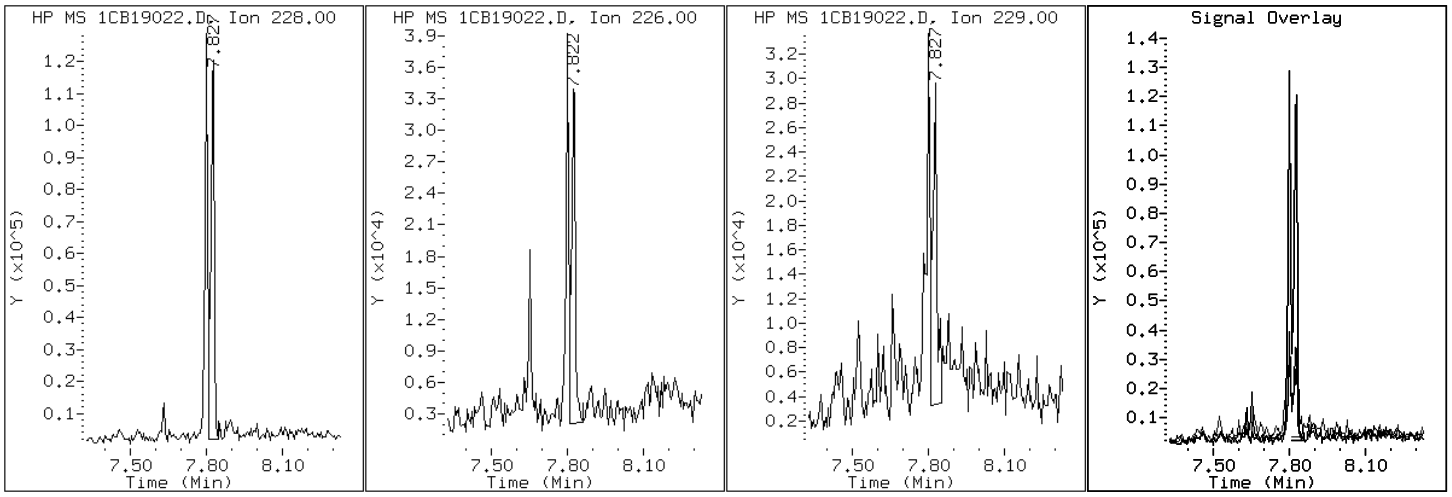
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

19 Chrysene



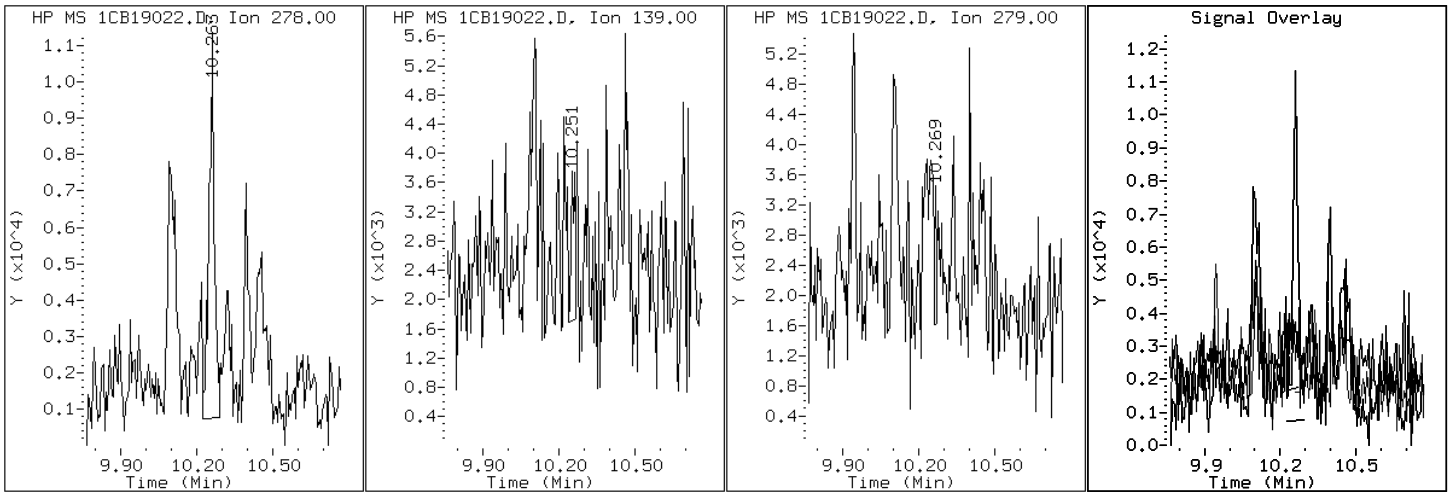
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

25 Dibenzo(a,h)anthracene



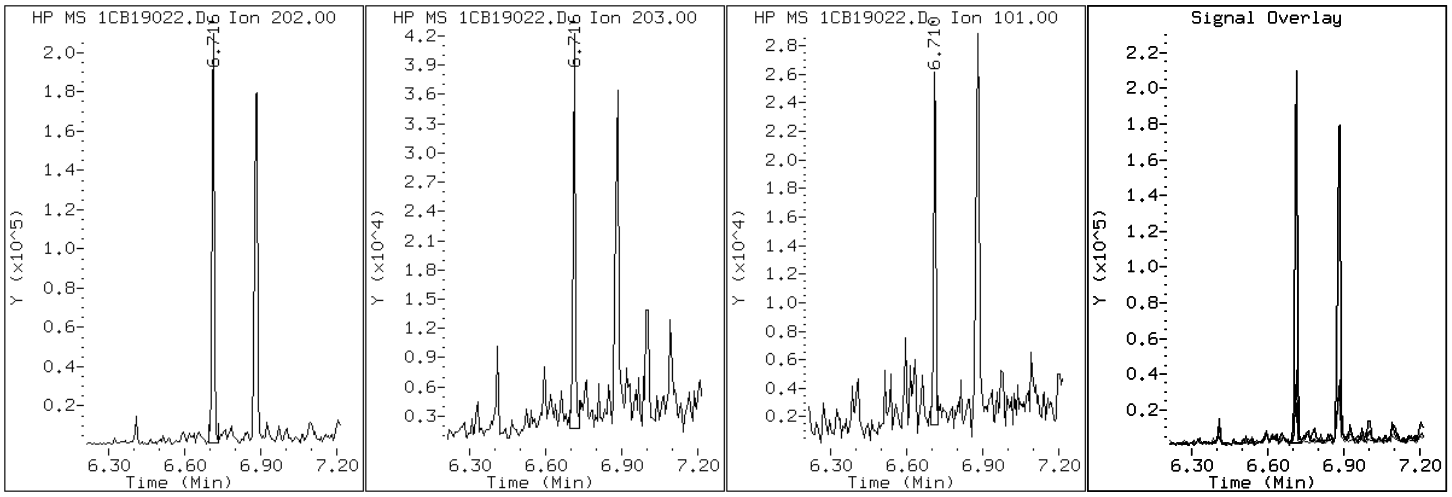
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

15 Fluoranthene



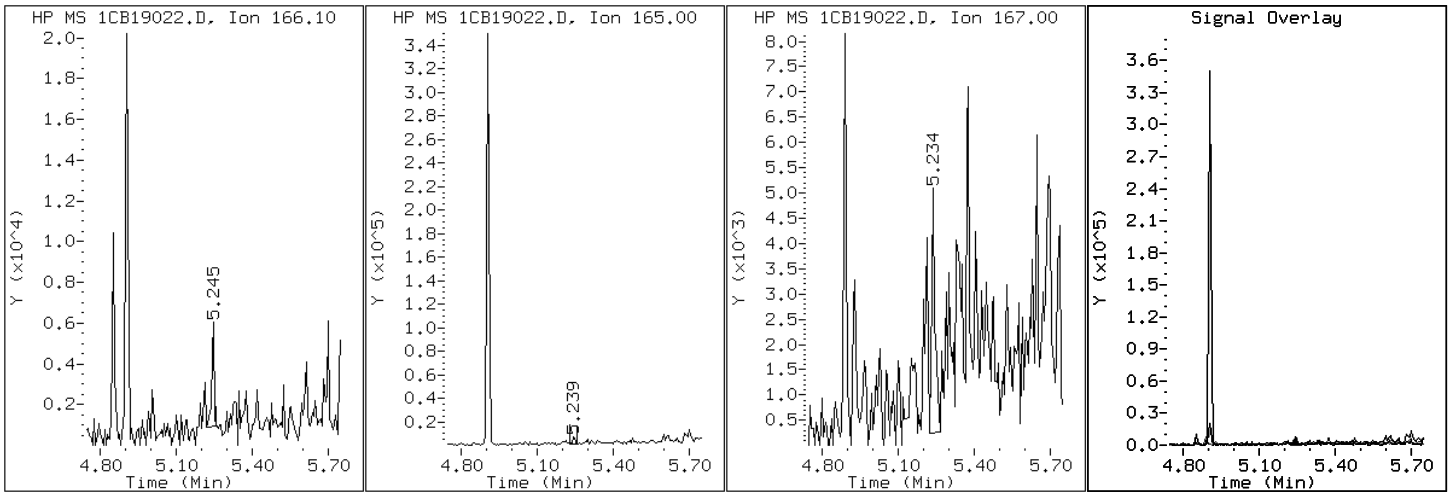
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

9 Fluorene



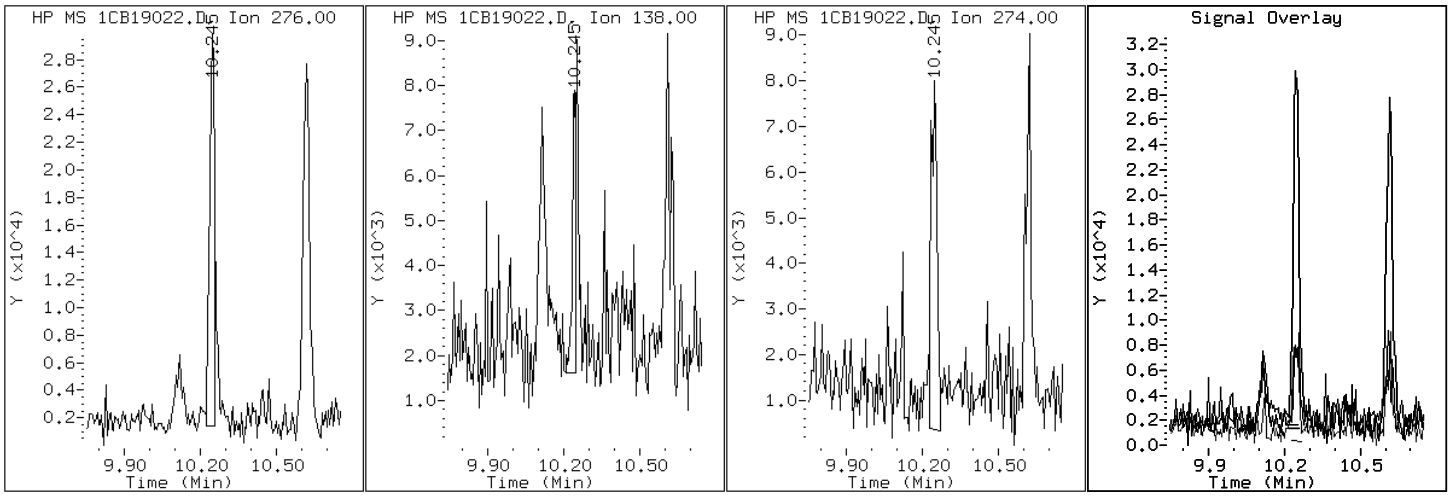
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

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



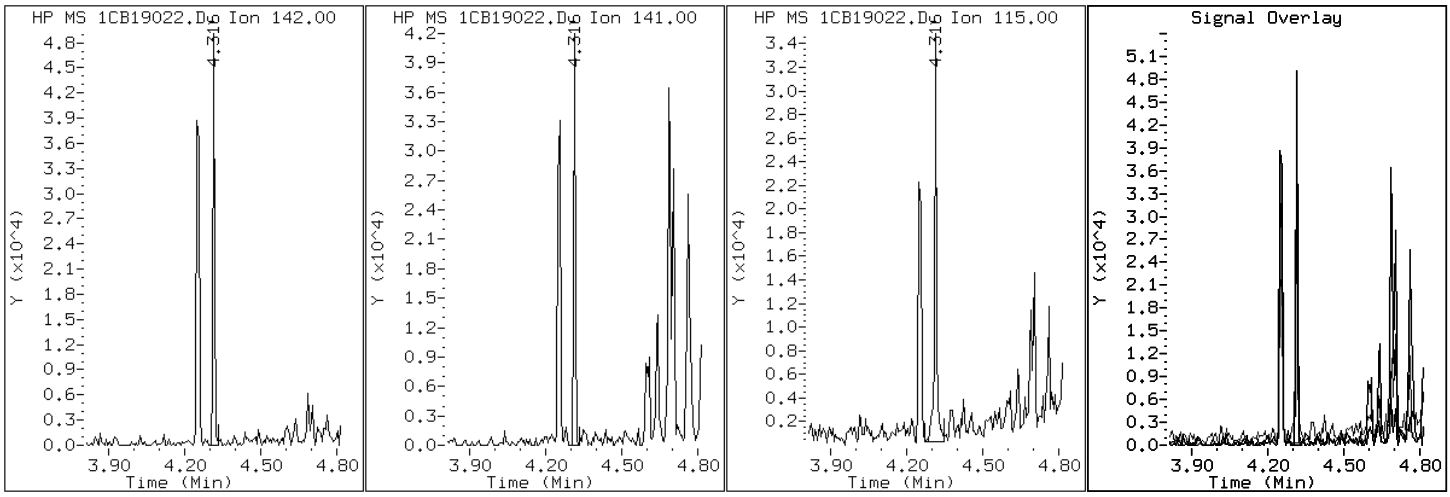
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

4 1-Methylnaphthalene



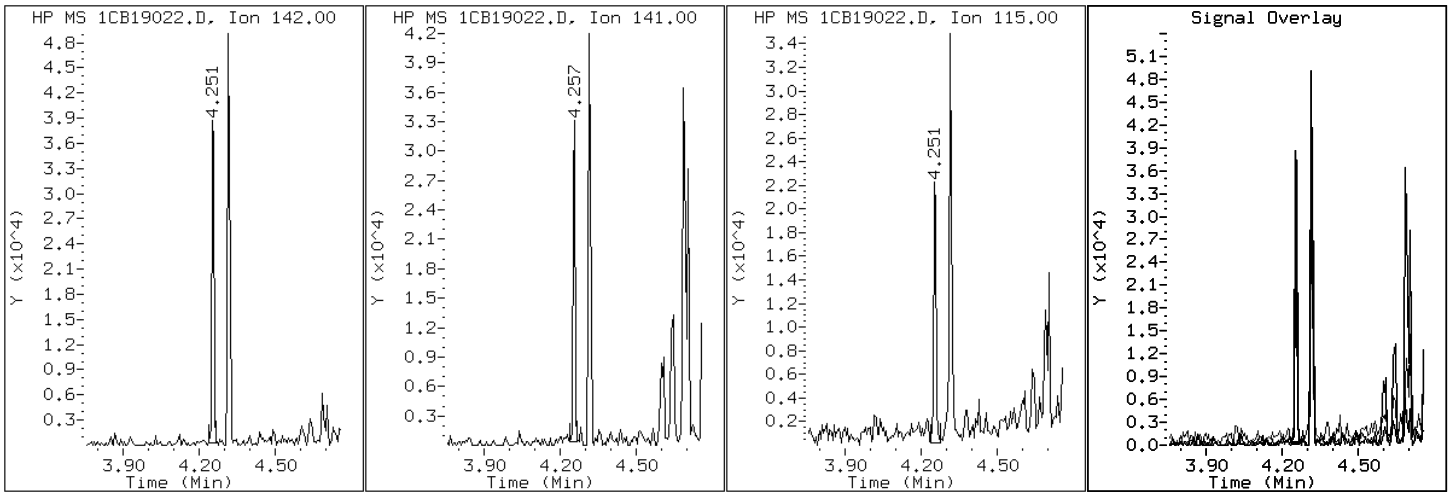
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

3 2-Methylnaphthalene



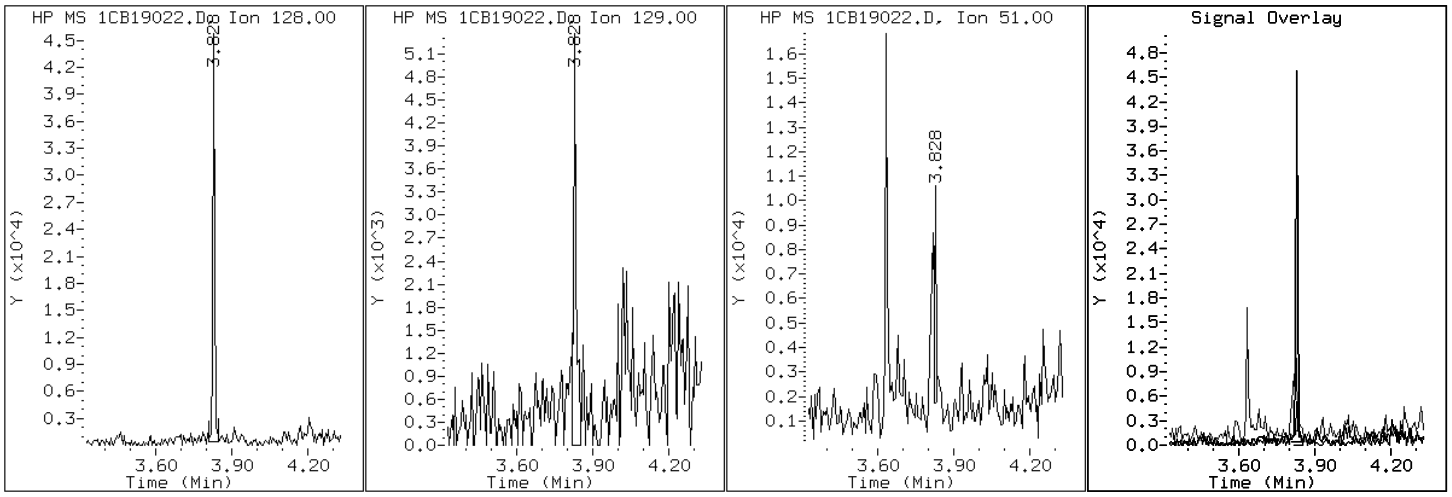
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

2 Naphthalene



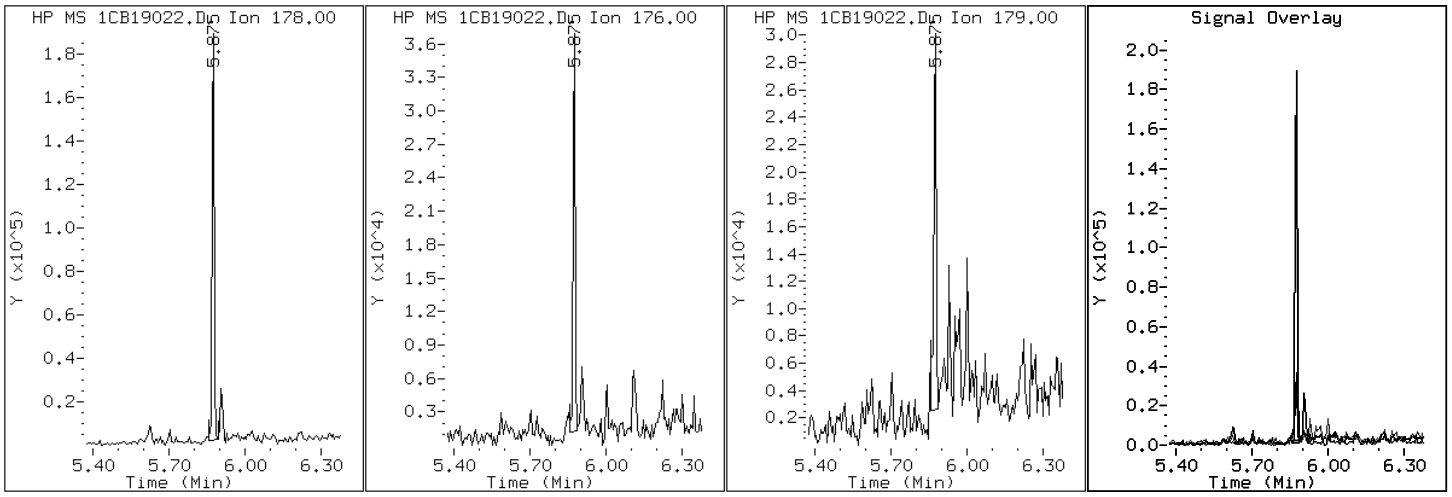
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

11 Phenanthrene



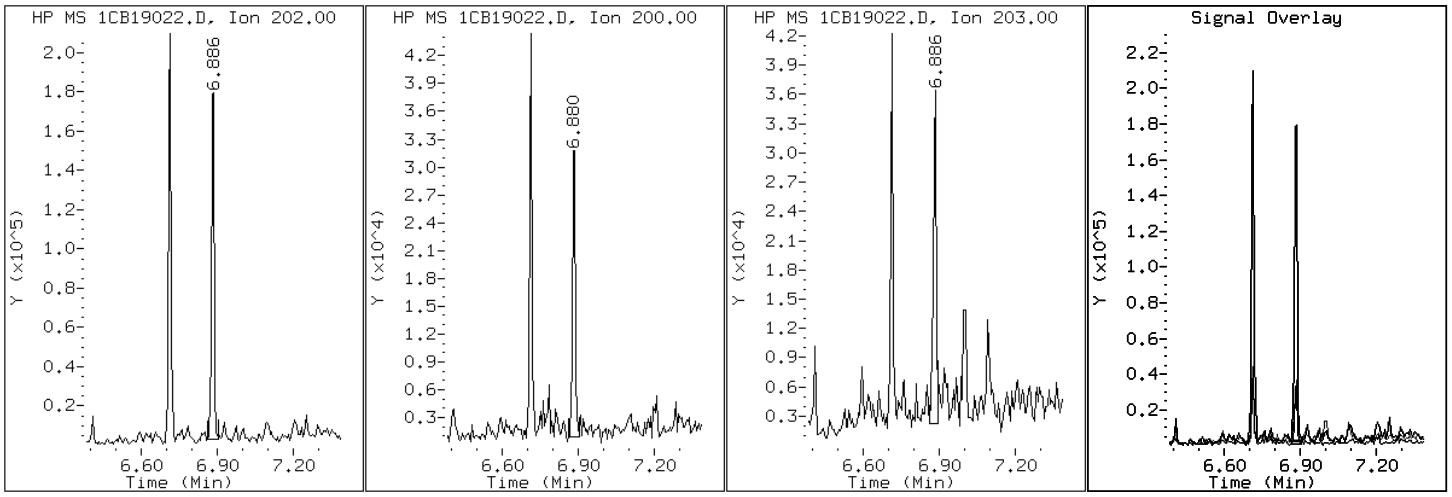
Data File: 1CB19022.D

Date: 19-FEB-2013 19:57

Client ID: CV0748UU-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-26-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19022.D
Inj. Date and Time: 19-FEB-2013 19:57
Instrument ID: BSMC5973.i
Client ID: CV0748UU-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

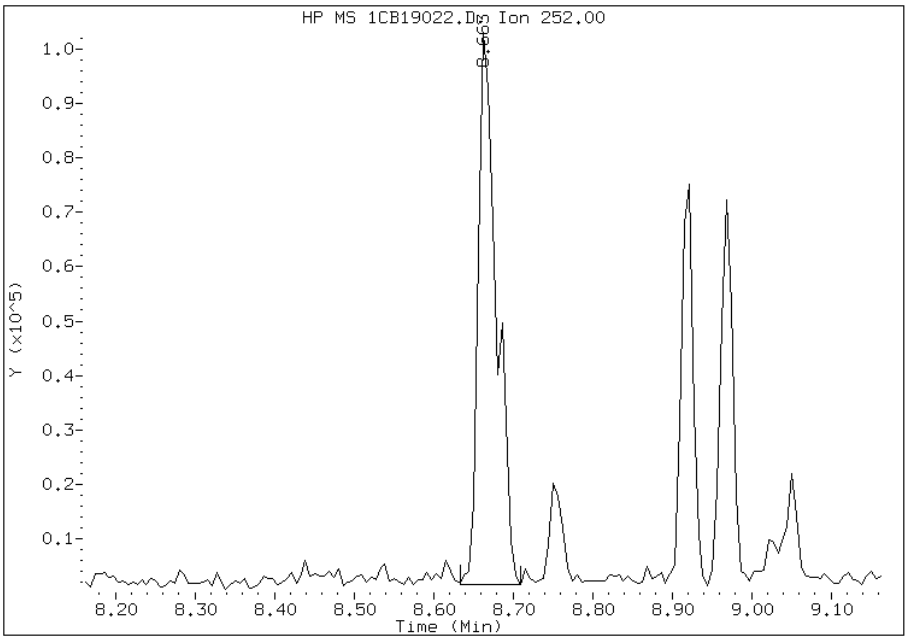
Processing Integration Results

RT: 8.66

Response: 164667

Amount: 2

Conc: 865



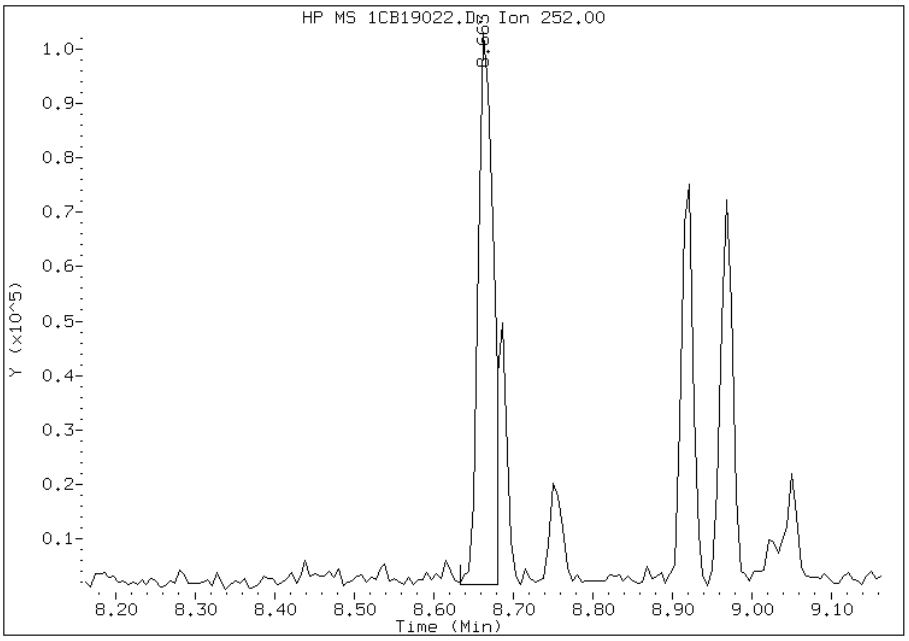
Manual Integration Results

RT: 8.66

Response: 133543

Amount: 2

Conc: 701



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19022.D
Inj. Date and Time: 19-FEB-2013 19:57
Instrument ID: BSMC5973.i
Client ID: CV0748UU-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

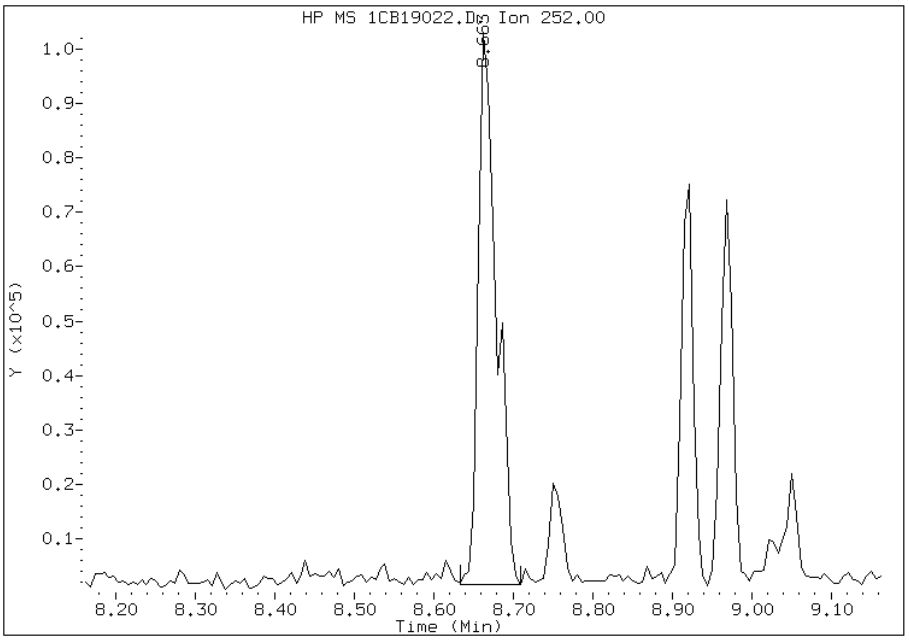
Processing Integration Results

RT: 8.66

Response: 164667

Amount: 2

Conc: 785



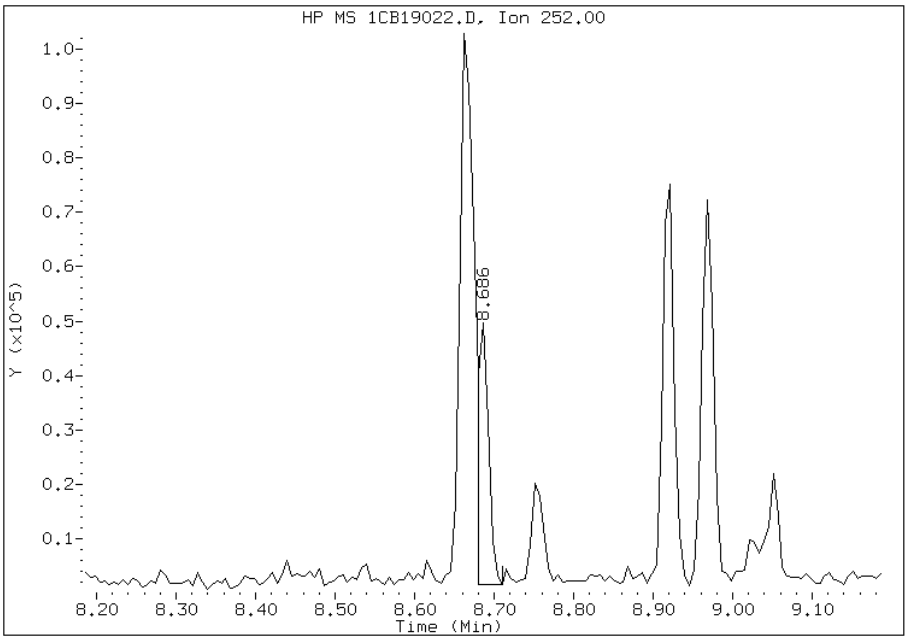
Manual Integration Results

RT: 8.69

Response: 44360

Amount: 1

Conc: 212



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19022.D
Inj. Date and Time: 19-FEB-2013 19:57
Instrument ID: BSMC5973.i
Client ID: CV0748UU-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

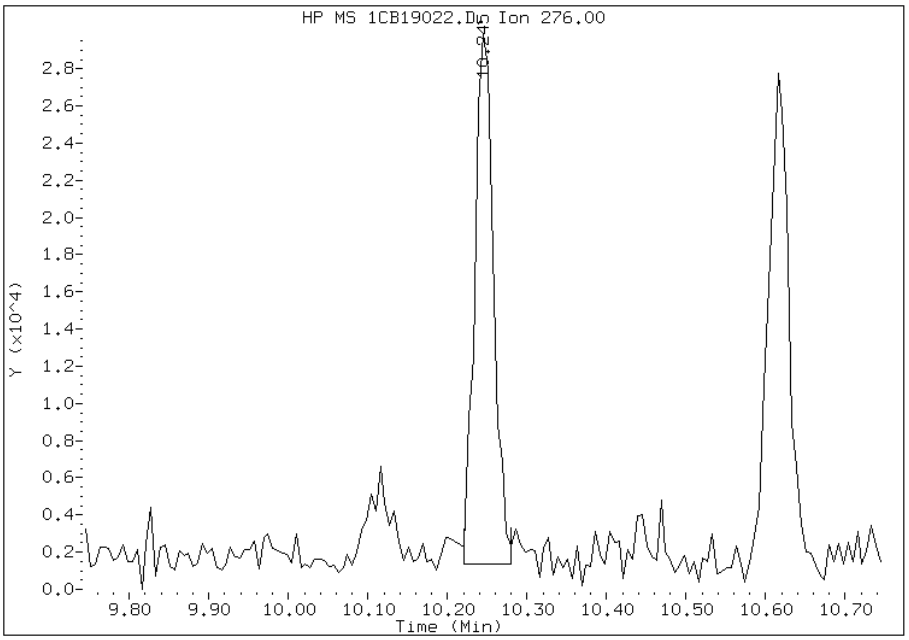
Processing Integration Results

RT: 10.24

Response: 46469

Amount: 1

Conc: 267



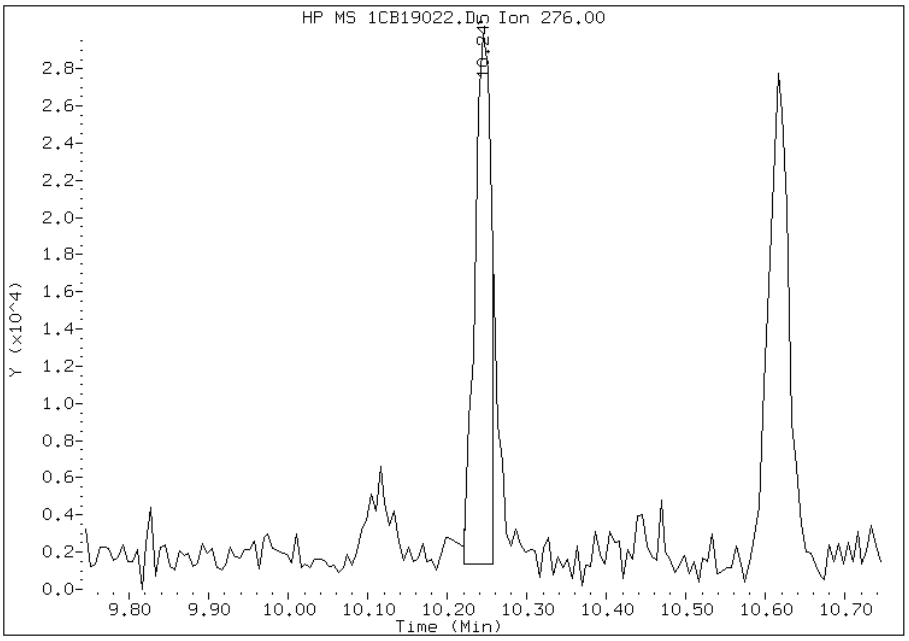
Manual Integration Results

RT: 10.24

Response: 41002

Amount: 1

Conc: 236



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748WW-CS | Lab Sample ID: 680-87320-27

Matrix: Solid | Lab File ID: 1CB19023.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 13:57

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 14.97(g) | Date Analyzed: 02/19/2013 20:15

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

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

% Moisture: 22.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	65	J	210	26
120-12-7	Anthracene	580		43	22
56-55-3	Benzo[a]anthracene	2800		41	20
50-32-8	Benzo[a]pyrene	1900		54	27
205-99-2	Benzo[b]fluoranthene	3500		63	32
191-24-2	Benzo[g,h,i]perylene	1100		100	23
207-08-9	Benzo[k]fluoranthene	1200		41	19
218-01-9	Chrysene	2500		47	23
53-70-3	Dibenz(a,h)anthracene	360		100	21
206-44-0	Fluoranthene	6400		100	21
86-73-7	Fluorene	120		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	870		100	37
90-12-0	1-Methylnaphthalene	99	J	210	23
91-57-6	2-Methylnaphthalene	150	J	210	37
91-20-3	Naphthalene	120	J	210	23
85-01-8	Phenanthrene	2200		41	20
129-00-0	Pyrene	5300		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	101		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19023.D
Lab Smp Id: 680-87320-A-27-A Client Smp ID: CV0748WW-CS
Inj Date : 19-FEB-2013 20:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-27-a
Misc Info : 680-87320-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 23
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	22.499	% 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	3.816	3.816	(1.000)	2198445	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1675571	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2945392	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	108569	2.51569	867.3359
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	3006198	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2846576	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	19528	0.33521	115.5706(Q)
3 2-Methylnaphthalene	142	4.251	4.257	(1.114)	16733	0.44174	152.3002
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	9898	0.28731	99.0553
5 Acenaphthylene	152	4.816	4.816	(0.982)	12602	0.18905	65.1772
9 Fluorene	166	5.245	5.245	(1.070)	18188	0.33890	116.8413
11 Phenanthrene	178	5.874	5.874	(1.003)	553374	6.29421	2170.0567
12 Anthracene	178	5.904	5.910	(1.008)	134043	1.69222	583.4273
13 Carbazole	167	6.015	6.015	(1.027)	71039	1.03247	355.9667

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	1600960	18.6357	6425.0504
16 Pyrene	202	6.880	6.886	(0.882)	1219997	15.2438	5255.6115
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	682921	8.23788	2840.1778
19 Chrysene	228	7.827	7.827	(1.003)	626506	7.31632	2522.4486
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	703396	10.0789	3474.9163(M)
21 Benzo(k)fluoranthene	252	8.680	8.686	(0.962)	263412	3.42609	1181.2151(QM)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	363267	5.47024	1885.9754
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.251	(1.135)	160661	2.51885	868.4260(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	62933	1.04629	360.7288
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.176)	200755	3.09849	1068.2683(M)

QC Flag Legend

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

Data File: 1CB19023.D

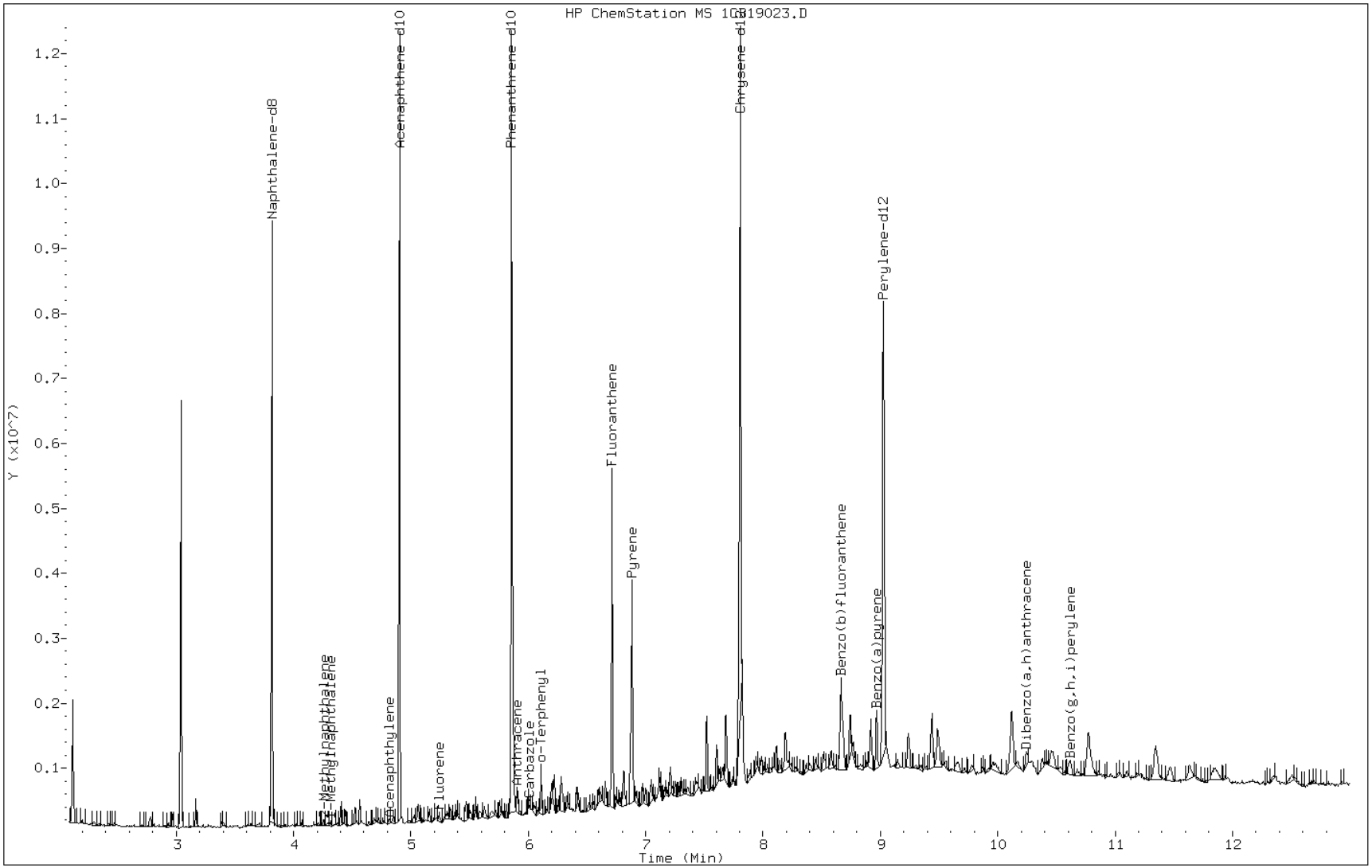
Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a

Operator: SCC



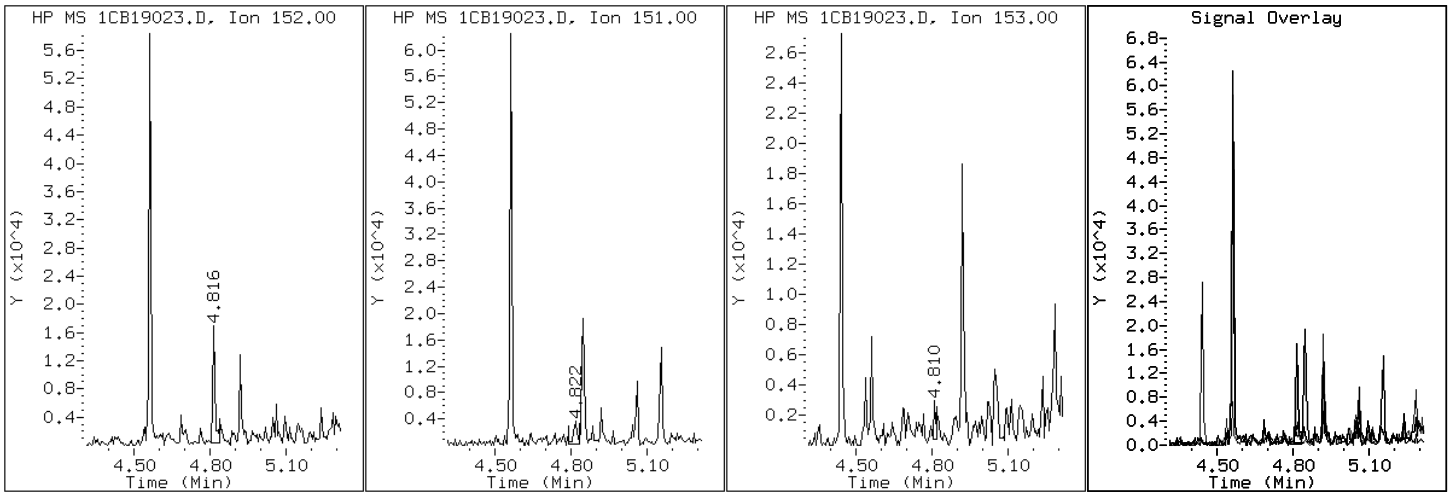
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

5 Acenaphthylene



Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

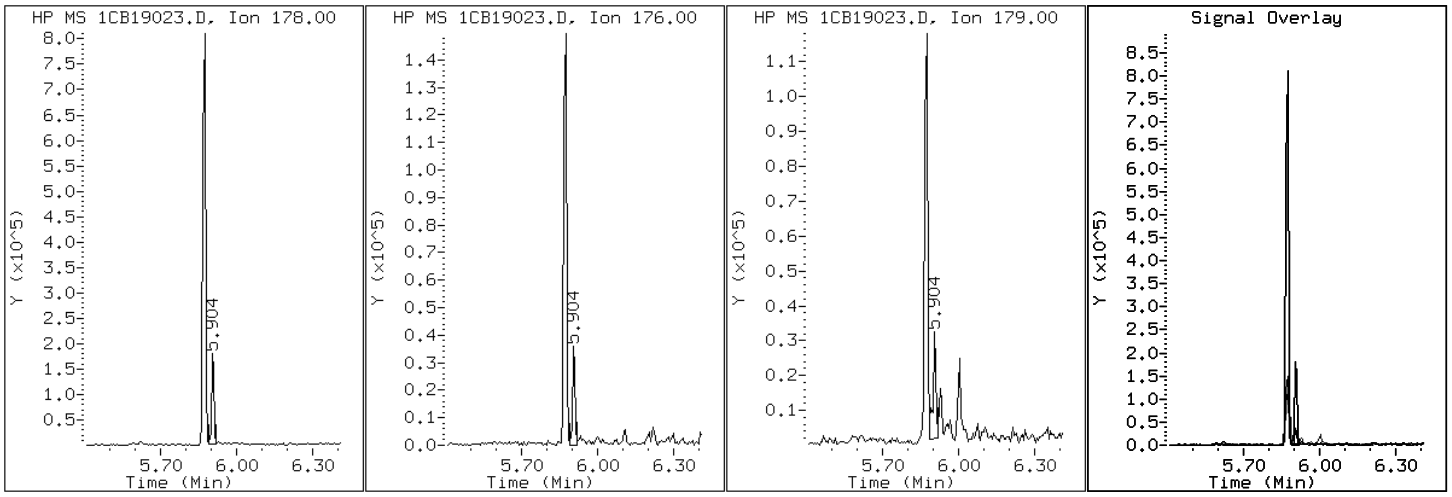
Client ID: CV0748WW-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a

Operator: SCC

12 Anthracene



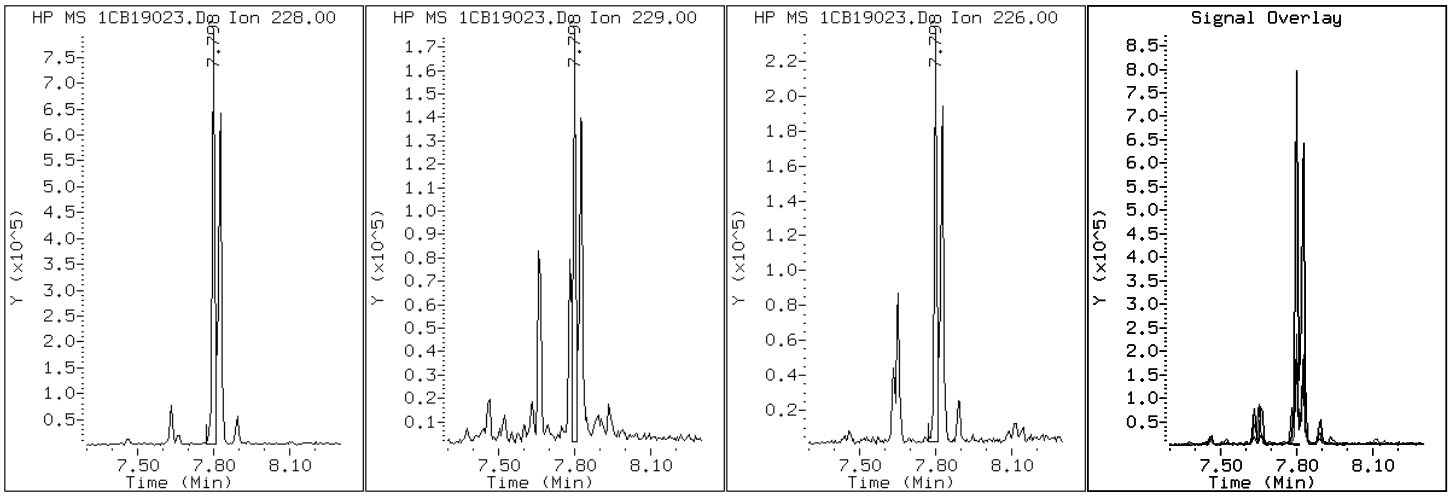
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

17 Benzo(a)anthracene



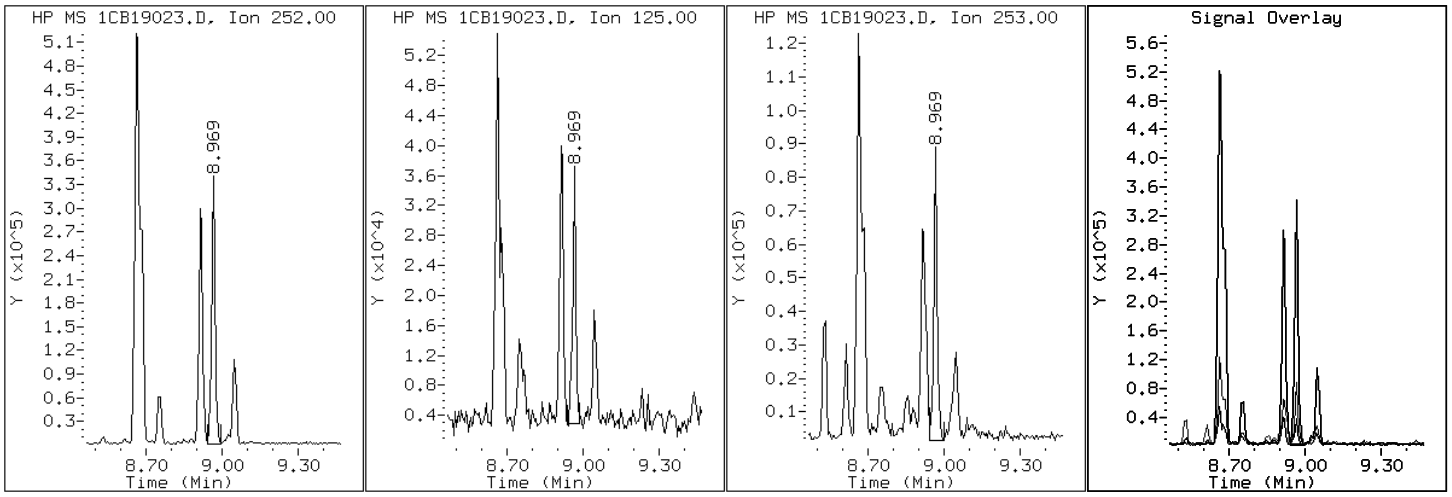
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

22 Benzo(a)pyrene



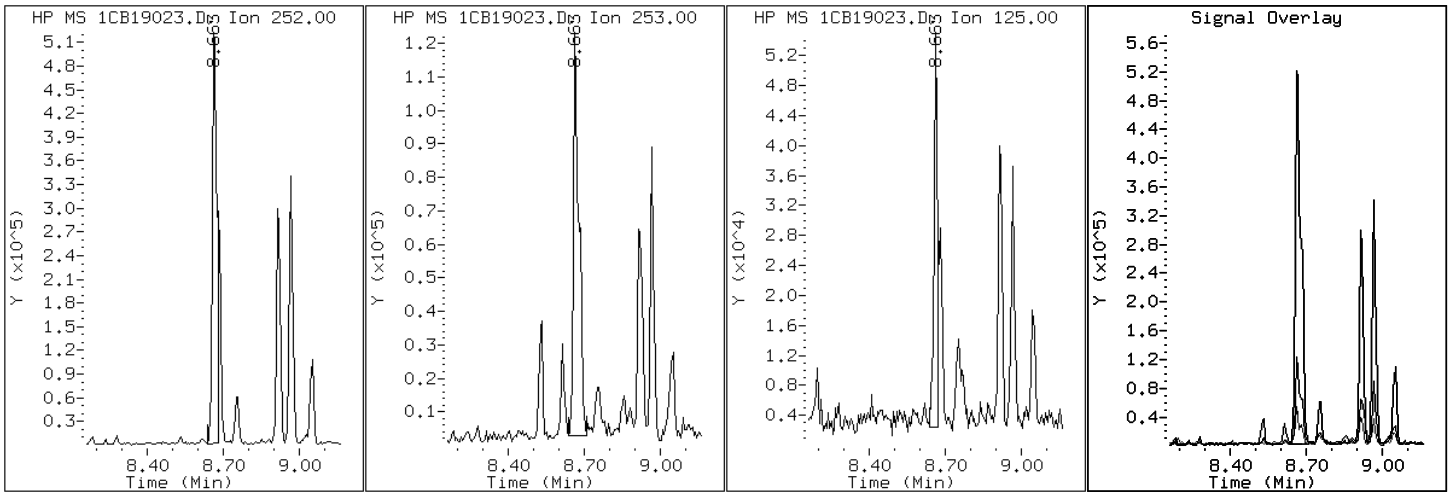
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

20 Benzo(b)fluoranthene



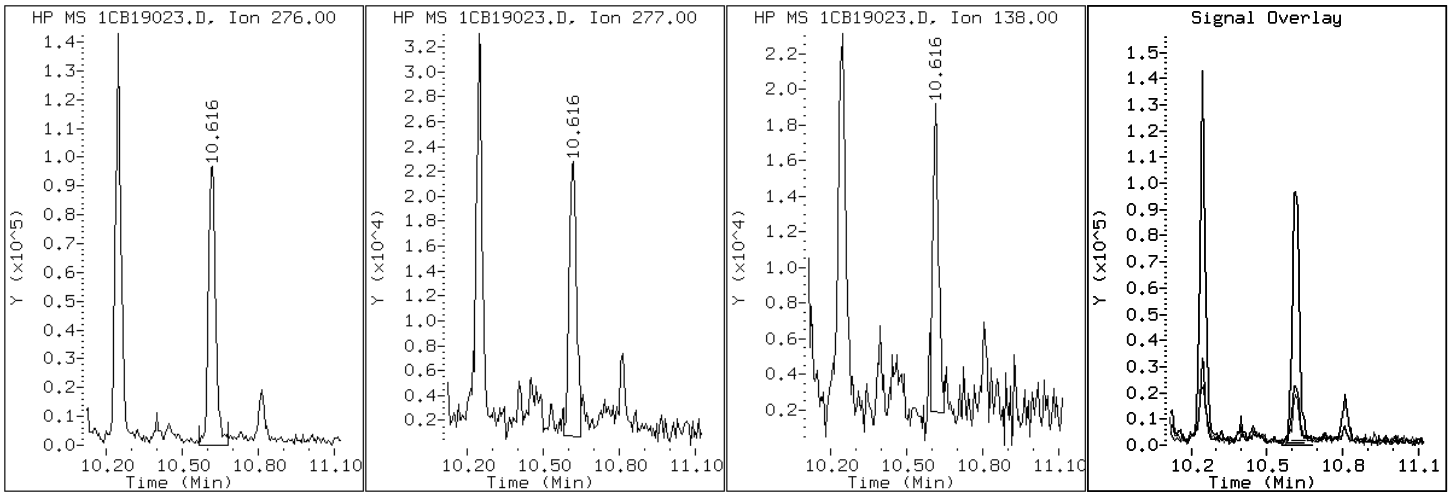
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

26 Benzo(g,h,i)perylene



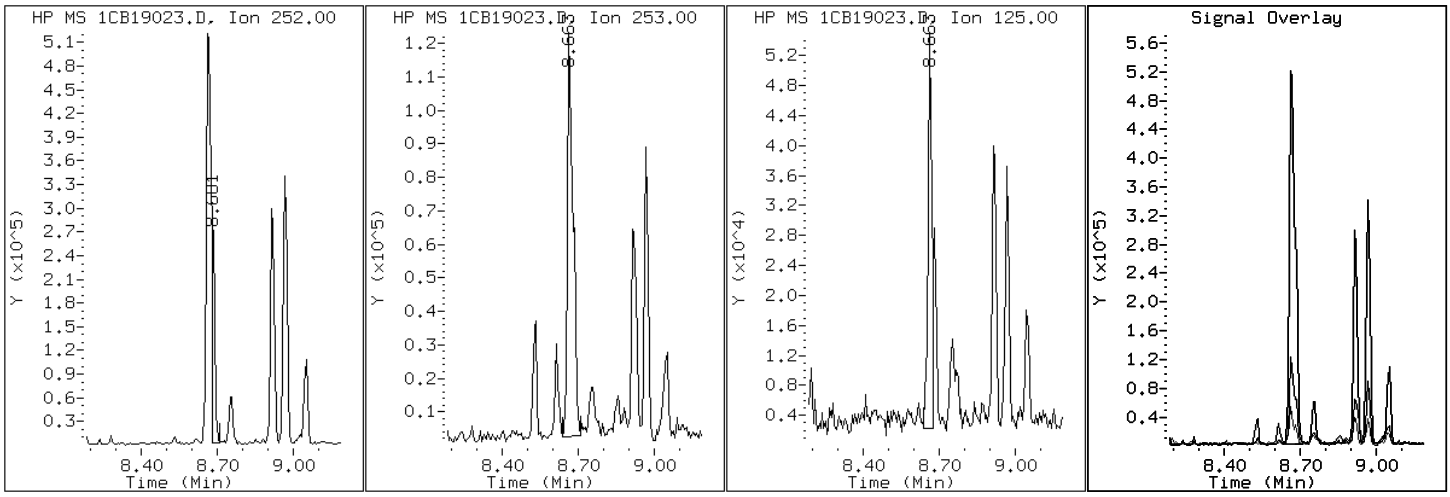
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

21 Benzo(k)fluoranthene



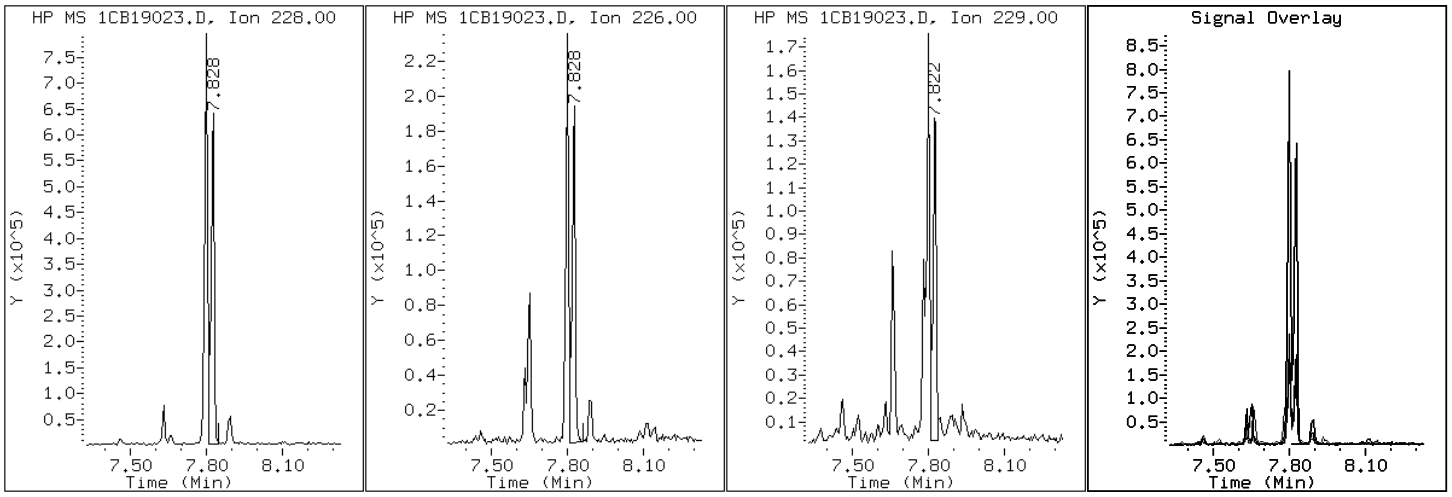
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

19 Chrysene



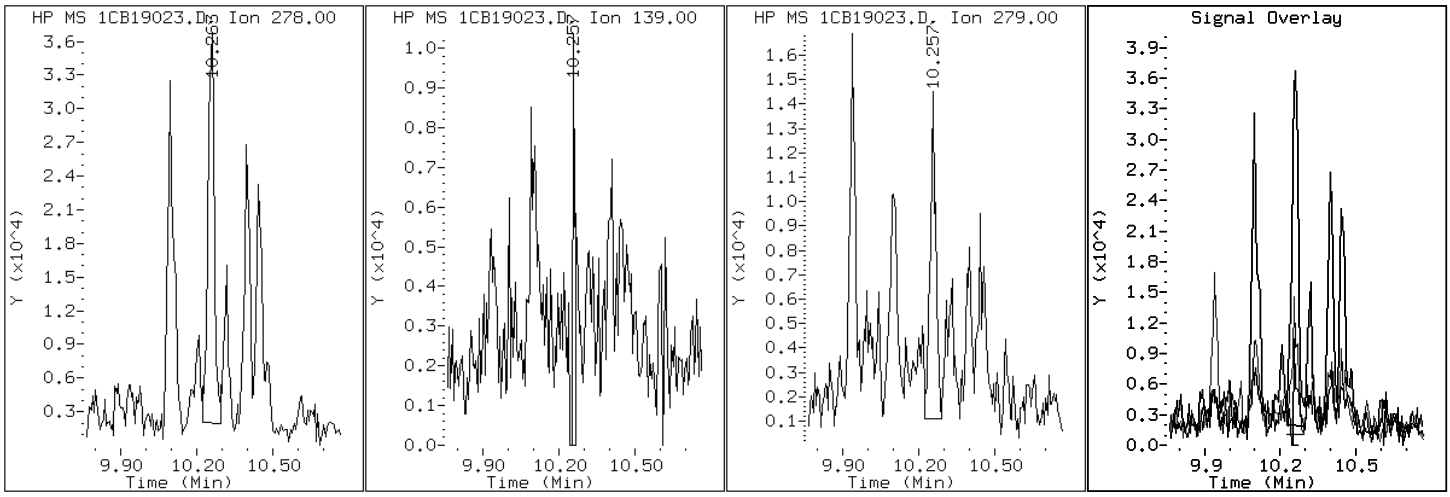
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

25 Dibenzo(a,h)anthracene



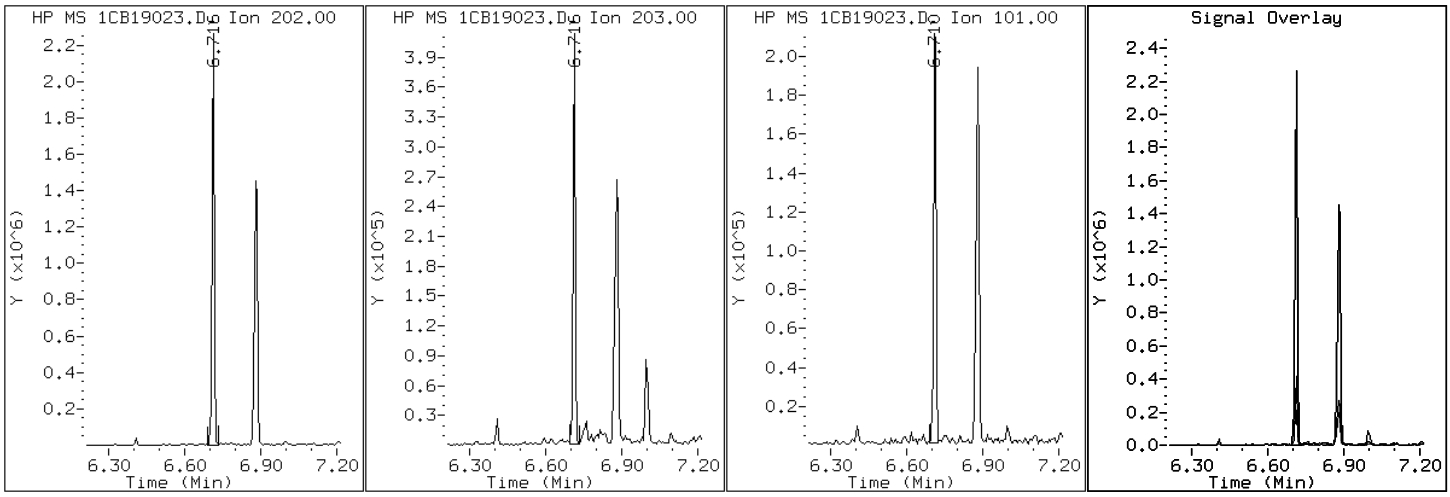
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

15 Fluoranthene



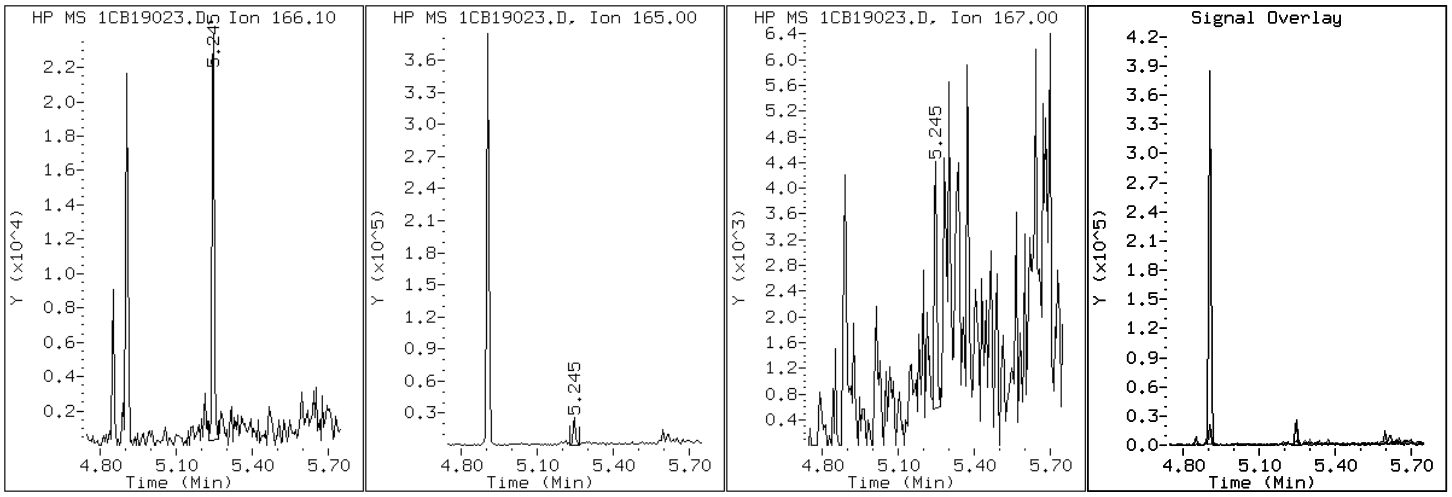
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

9 Fluorene



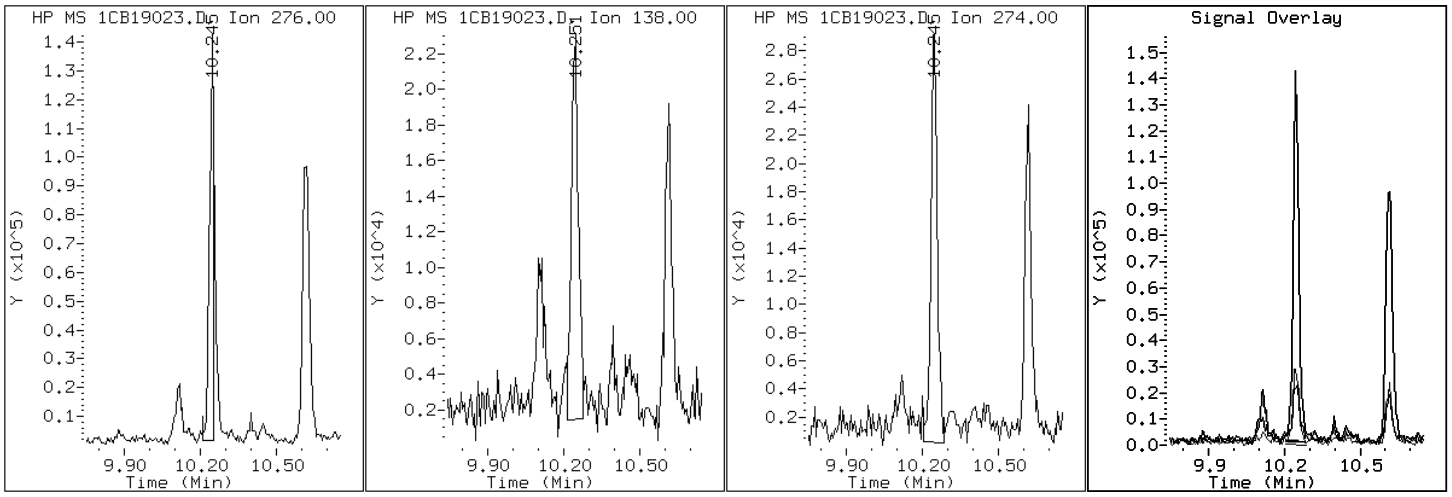
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

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



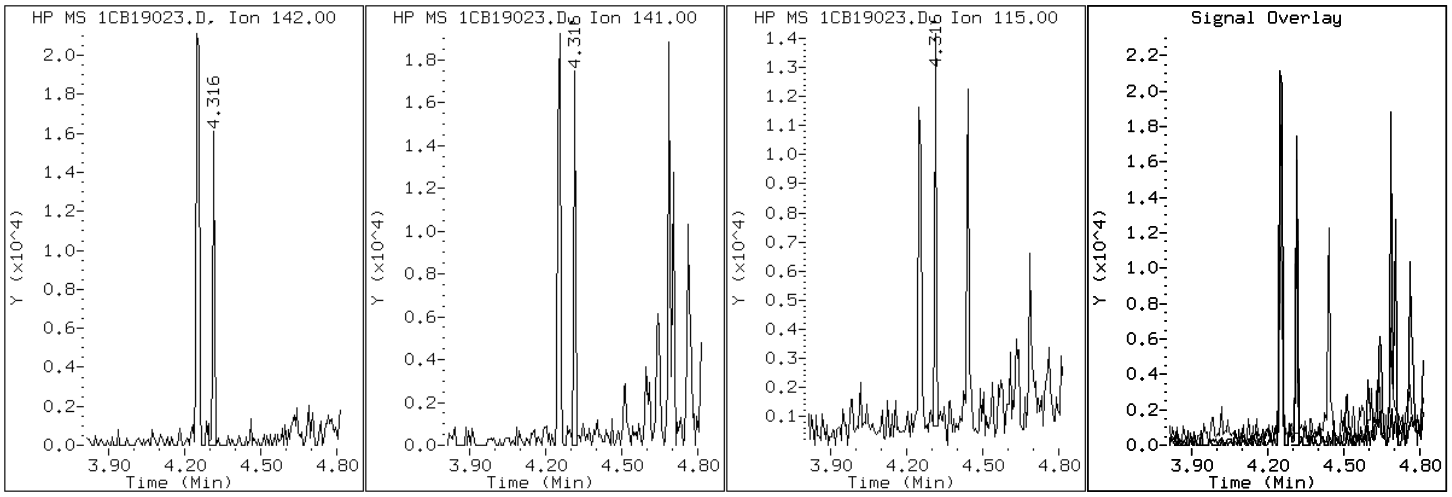
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

4 1-Methylnaphthalene



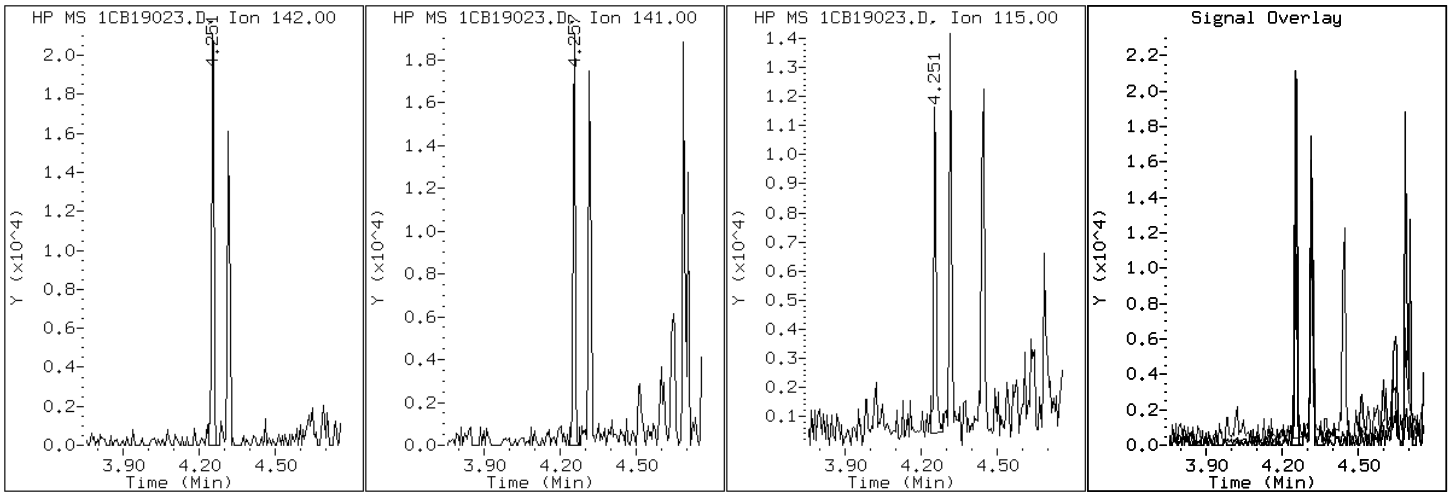
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

3 2-Methylnaphthalene



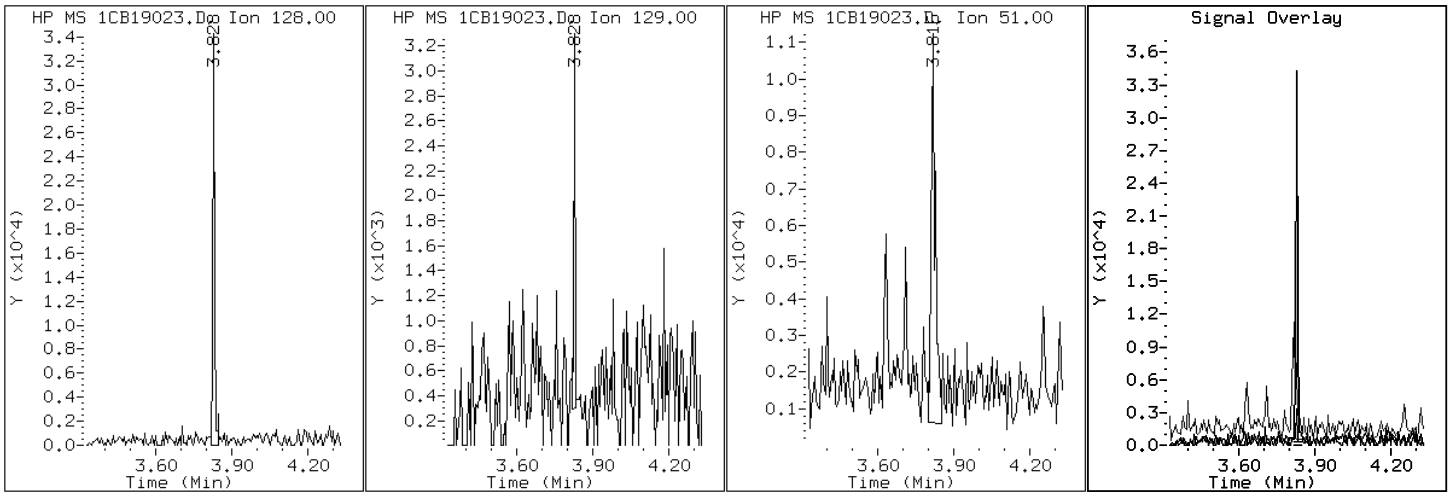
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

2 Naphthalene



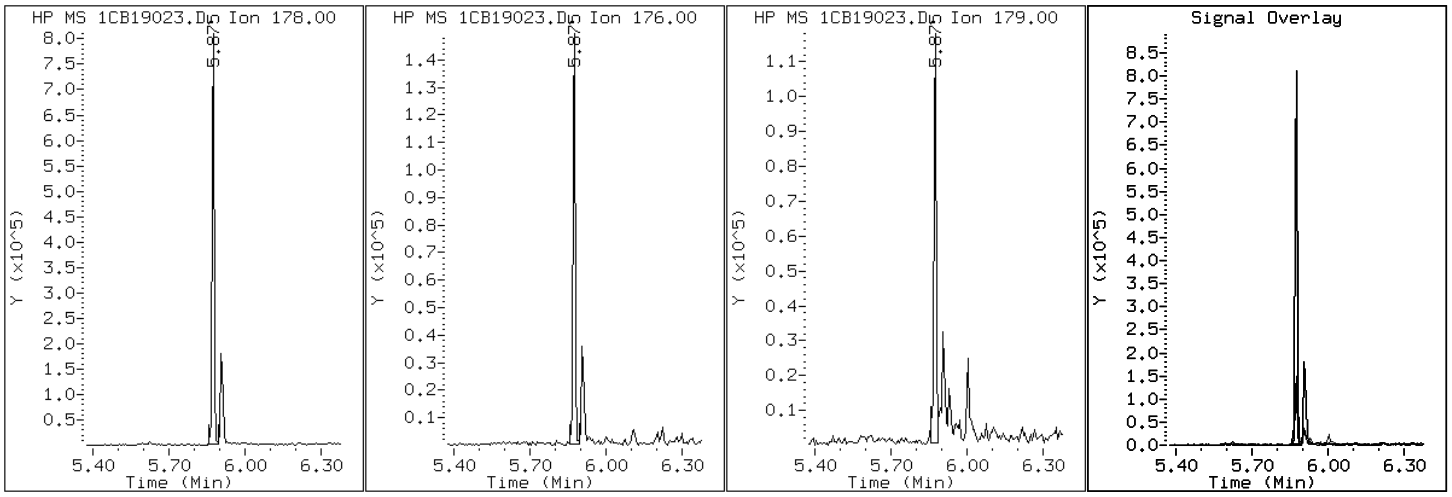
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

11 Phenanthrene



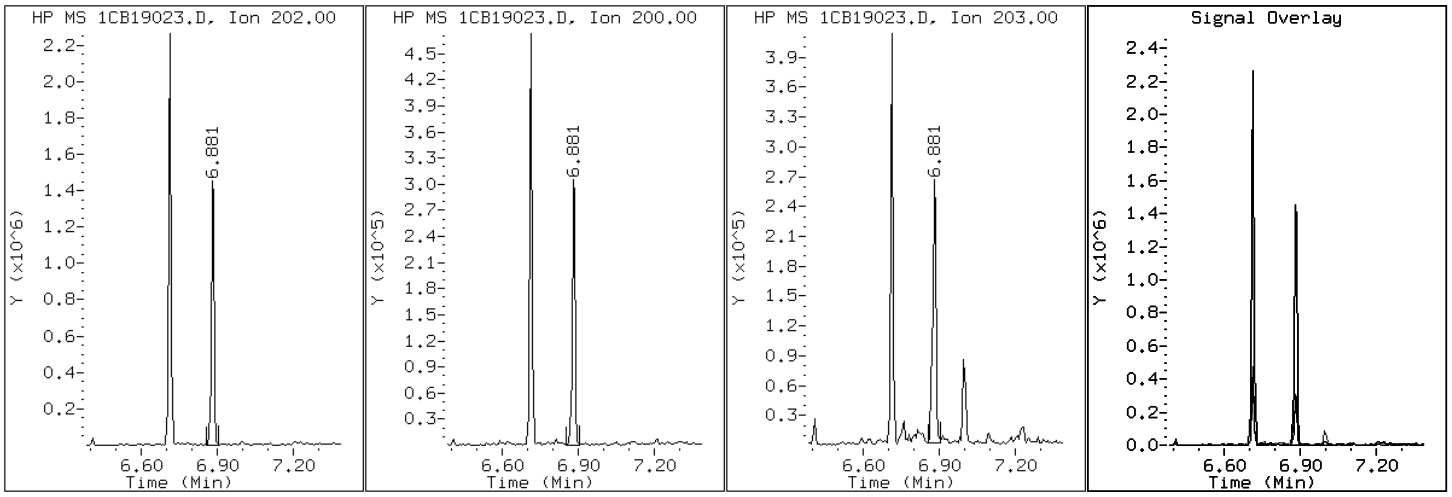
Data File: 1CB19023.D

Date: 19-FEB-2013 20:15

Client ID: CV0748WW-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-27-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19023.D
Inj. Date and Time: 19-FEB-2013 20:15
Instrument ID: BSMC5973.i
Client ID: CV0748WW-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

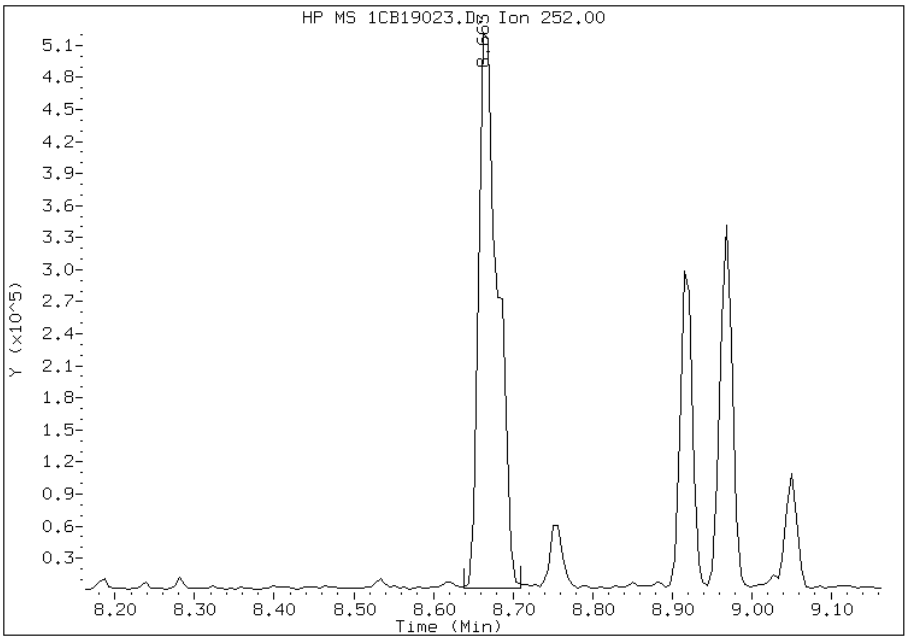
Processing Integration Results

RT: 8.66

Response: 871861

Amount: 12

Conc: 4307



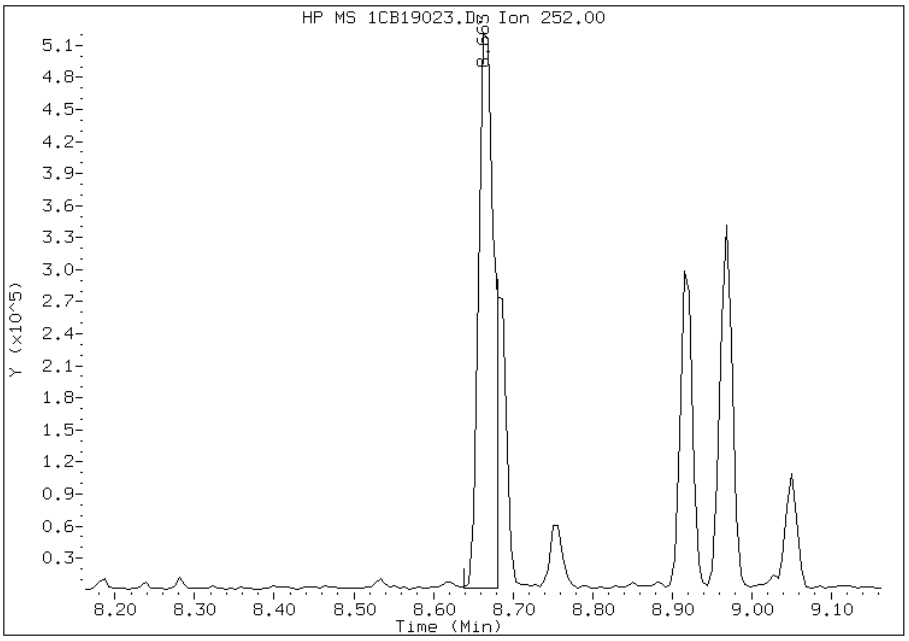
Manual Integration Results

RT: 8.66

Response: 703396

Amount: 10

Conc: 3475



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:47
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19023.D
Inj. Date and Time: 19-FEB-2013 20:15
Instrument ID: BSMC5973.i
Client ID: CV0748WW-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/20/2013

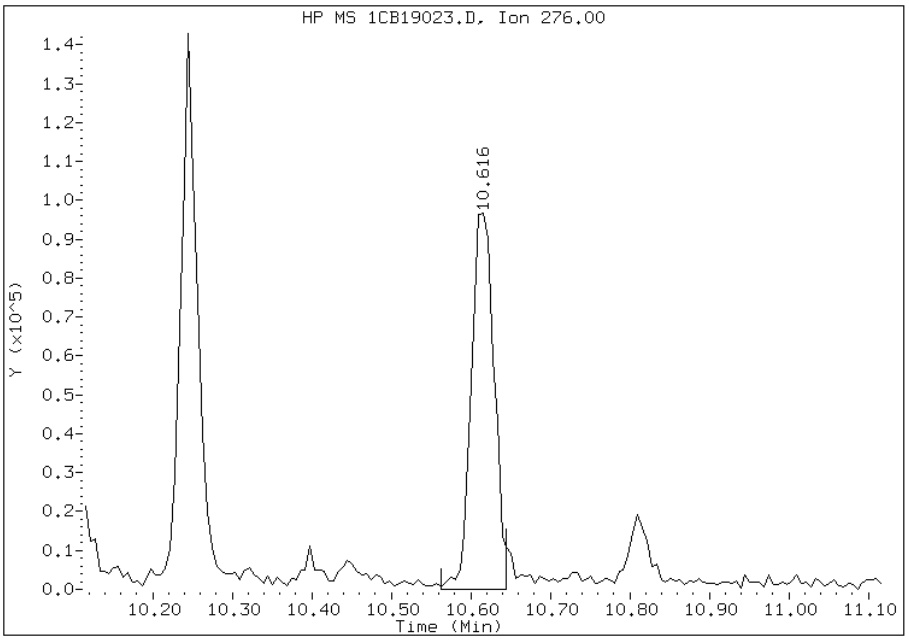
Processing Integration Results

RT: 10.62

Response: 191778

Amount: 3

Conc: 1020



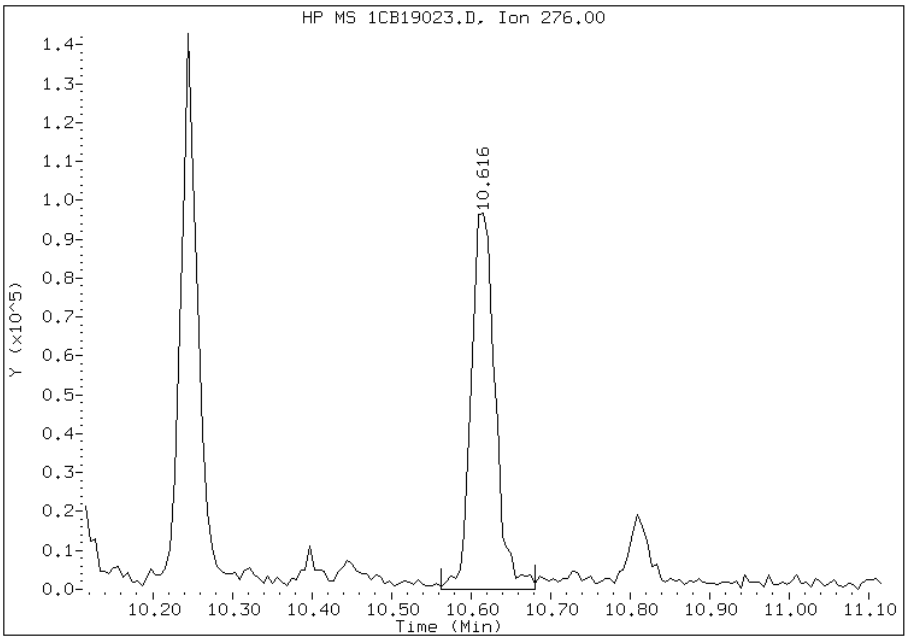
Manual Integration Results

RT: 10.62

Response: 200755

Amount: 3

Conc: 1068



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19023.D
Inj. Date and Time: 19-FEB-2013 20:15
Instrument ID: BSMC5973.i
Client ID: CV0748WW-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

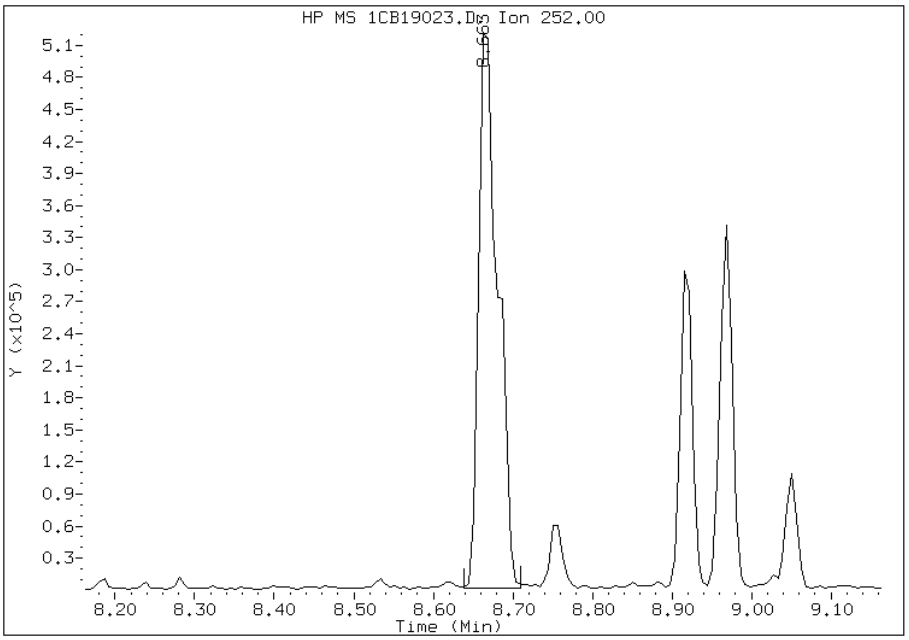
Processing Integration Results

RT: 8.66

Response: 874232

Amount: 11

Conc: 3920



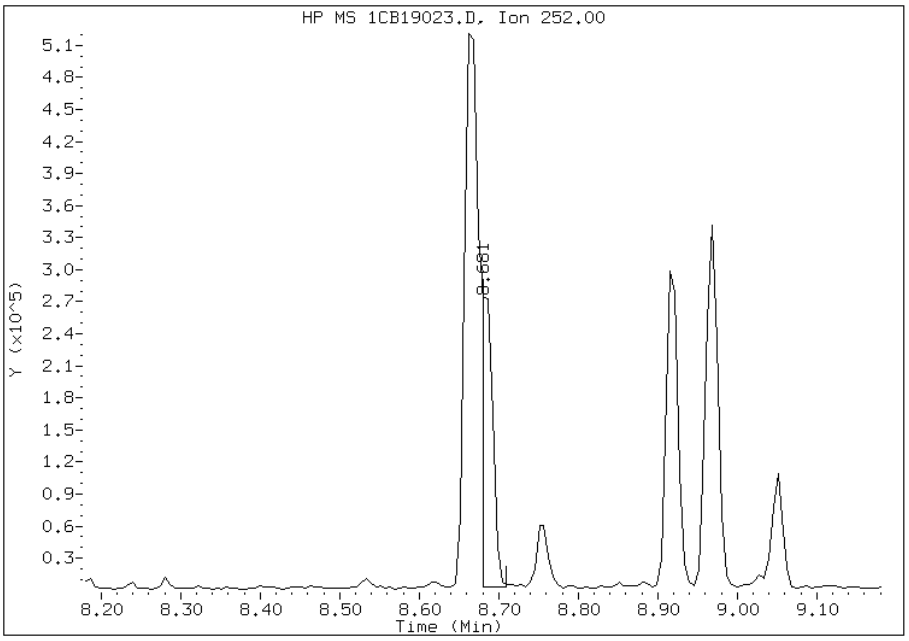
Manual Integration Results

RT: 8.68

Response: 263412

Amount: 3

Conc: 1181



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19023.D
Inj. Date and Time: 19-FEB-2013 20:15
Instrument ID: BSMC5973.i
Client ID: CV0748WW-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

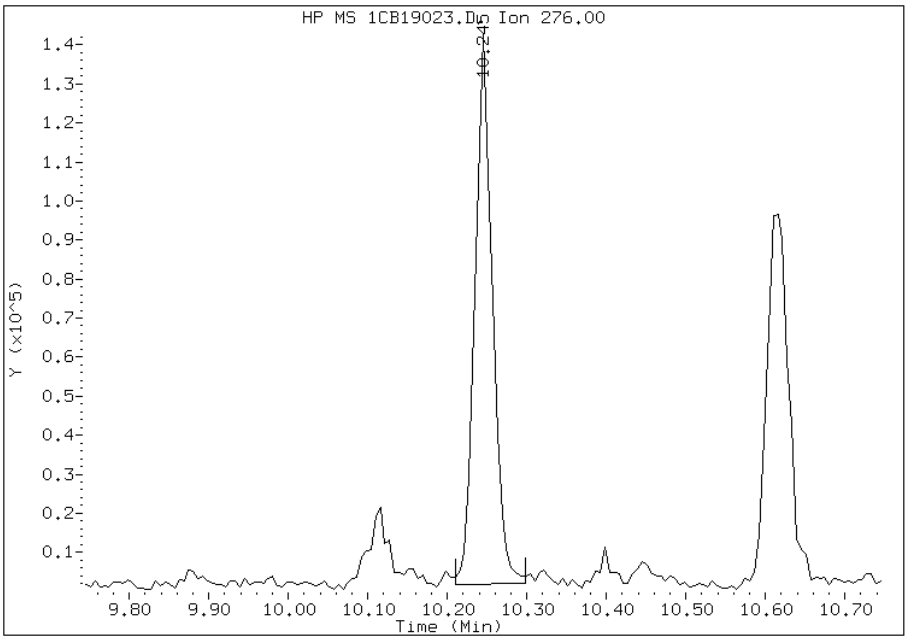
Processing Integration Results

RT: 10.25

Response: 213261

Amount: 3

Conc: 1153



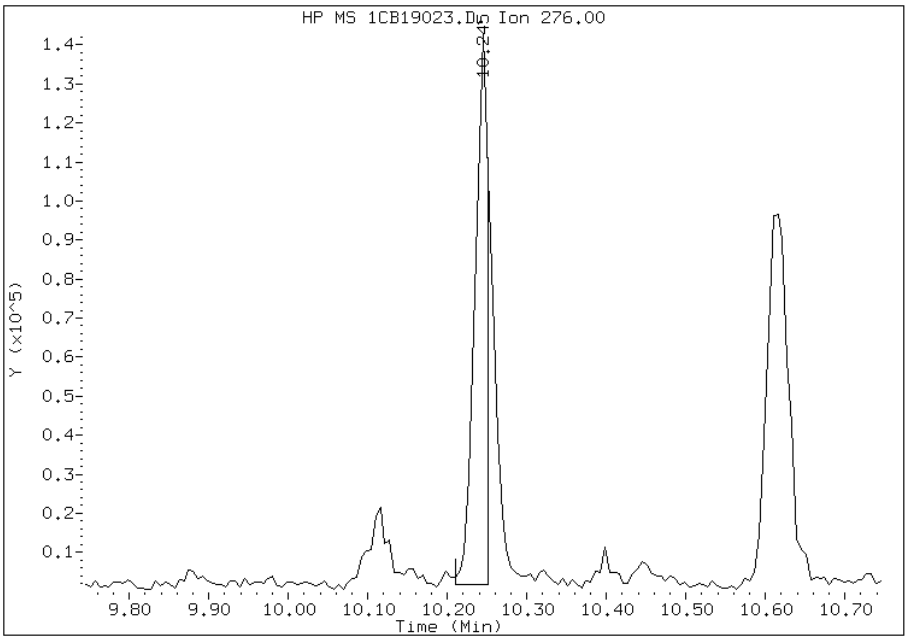
Manual Integration Results

RT: 10.25

Response: 160661

Amount: 3

Conc: 868



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748XX-CS | Lab Sample ID: 680-87320-28

Matrix: Solid | Lab File ID: 1CB19024.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 14:07

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 15.08(g) | Date Analyzed: 02/19/2013 20:34

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

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

% Moisture: 5.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	420	U	420	84
208-96-8	Acenaphthylene	29	J	170	21
120-12-7	Anthracene	40		35	18
56-55-3	Benzo[a]anthracene	300		34	16
50-32-8	Benzo[a]pyrene	270		44	22
205-99-2	Benzo[b]fluoranthene	490		51	26
191-24-2	Benzo[g,h,i]perylene	220		84	18
207-08-9	Benzo[k]fluoranthene	120		34	15
218-01-9	Chrysene	340		38	19
53-70-3	Dibenz(a,h)anthracene	66	J	84	17
206-44-0	Fluoranthene	450		84	17
86-73-7	Fluorene	17	J	84	17
193-39-5	Indeno[1,2,3-cd]pyrene	170		84	30
90-12-0	1-Methylnaphthalene	130	J	170	18
91-57-6	2-Methylnaphthalene	130	J	170	30
91-20-3	Naphthalene	110	J	170	18
85-01-8	Phenanthrene	260		34	16
129-00-0	Pyrene	430		84	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	107		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19024.D
Lab Smp Id: 680-87320-A-28-A Client Smp ID: CV0748XX-CS
Inj Date : 19-FEB-2013 20:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-28-a
Misc Info : 680-87320-A-28-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 24
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	5.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	2102429	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1602929	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2850257	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	111349	2.66623	744.4439
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2860433	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2750314	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	21669	0.38895	108.5995
3 2-Methylnaphthalene	142	4.251	4.257	(1.114)	17004	0.46940	131.0621
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	15029	0.45617	127.3679
5 Acenaphthylene	152	4.816	4.816	(0.982)	6672	0.10462	29.2123
9 Fluorene	166	5.245	5.245	(1.070)	3198	0.06229	17.3917
11 Phenanthrene	178	5.874	5.874	(1.003)	80673	0.94822	264.7553
12 Anthracene	178	5.910	5.910	(1.009)	10983	0.14328	40.0062
13 Carbazole	167	6.015	6.015	(1.027)	11869	0.17826	49.7726

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	135297	1.62747	454.4105
16 Pyrene	202	6.880	6.886	(0.882)	117889	1.54808	432.2437
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	84773	1.07470	300.0706
19 Chrysene	228	7.827	7.827	(1.003)	98553	1.20955	337.7208
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	118439	1.75651	490.4387
21 Benzo(k)fluoranthene	252	8.680	8.686	(0.962)	31003	0.41736	116.5313(QM)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	61139	0.95288	266.0565
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.251	(1.136)	36926	0.59919	167.3016(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.268	(1.136)	13741	0.23645	66.0186
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	49608	0.79246	221.2642(M)

QC Flag Legend

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

Data File: 1CB19024.D

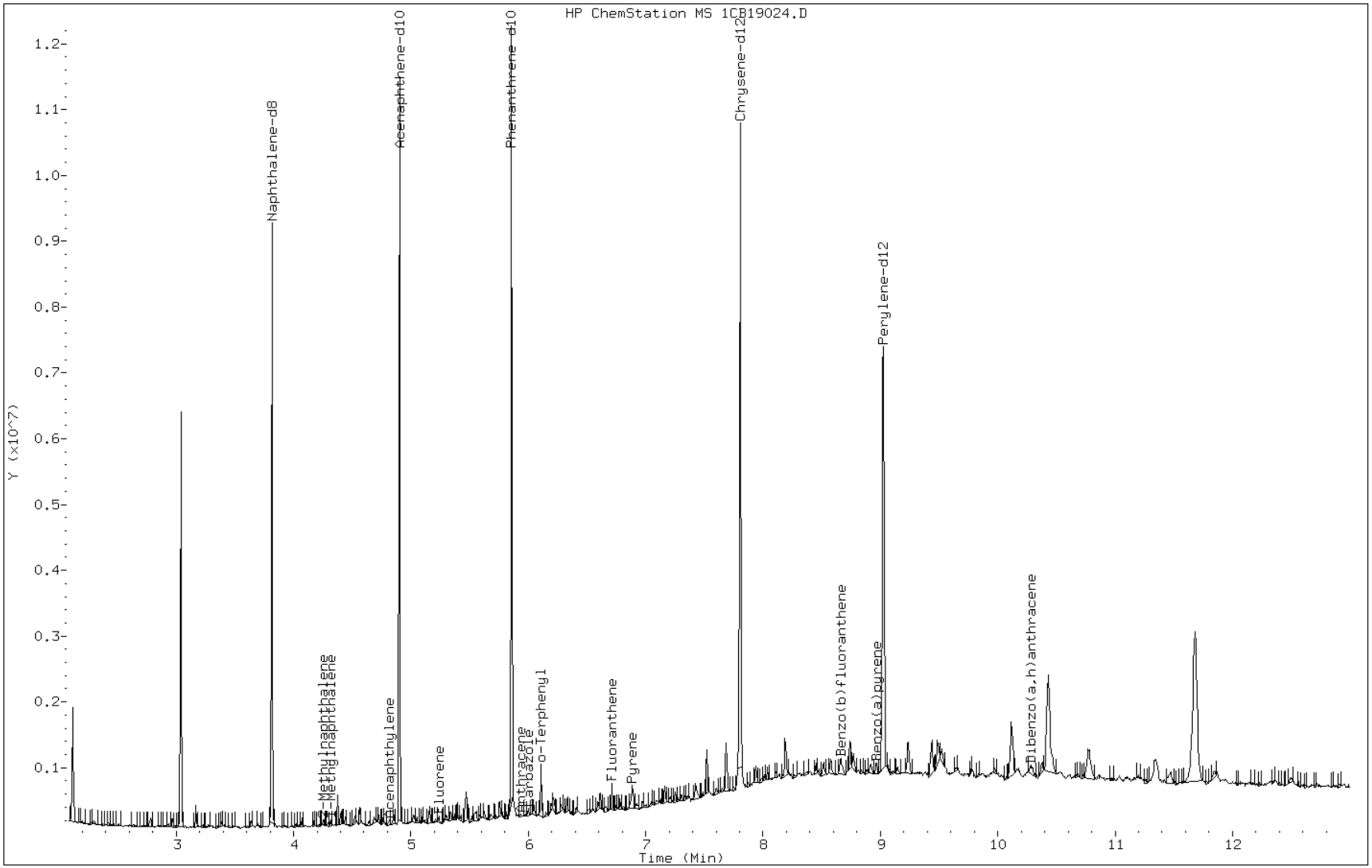
Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a

Operator: SCC



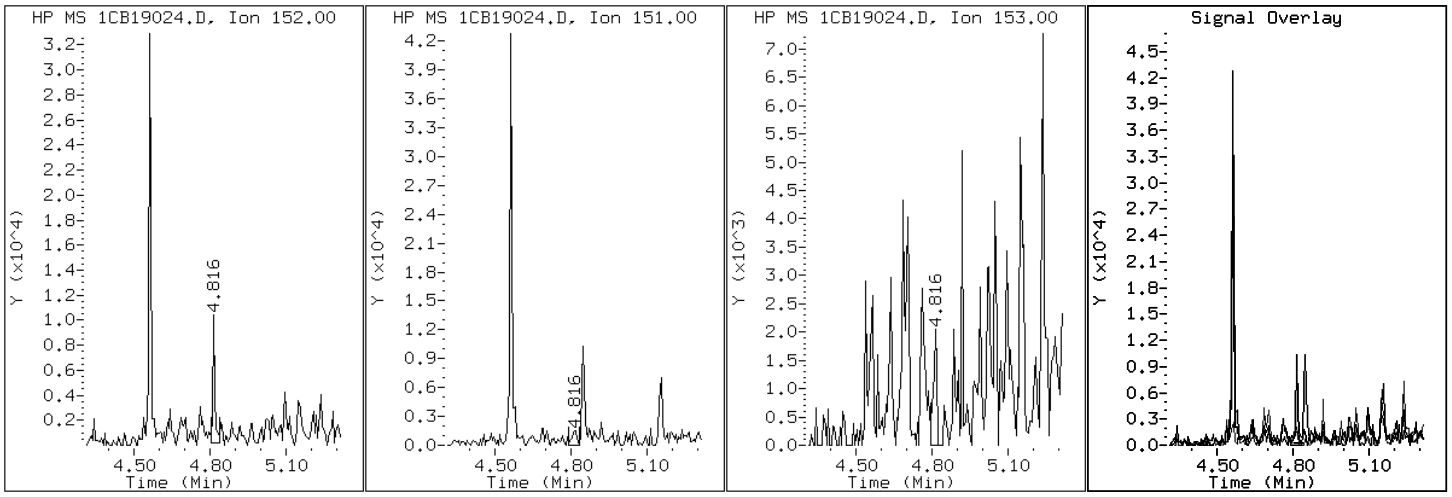
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

5 Acenaphthylene



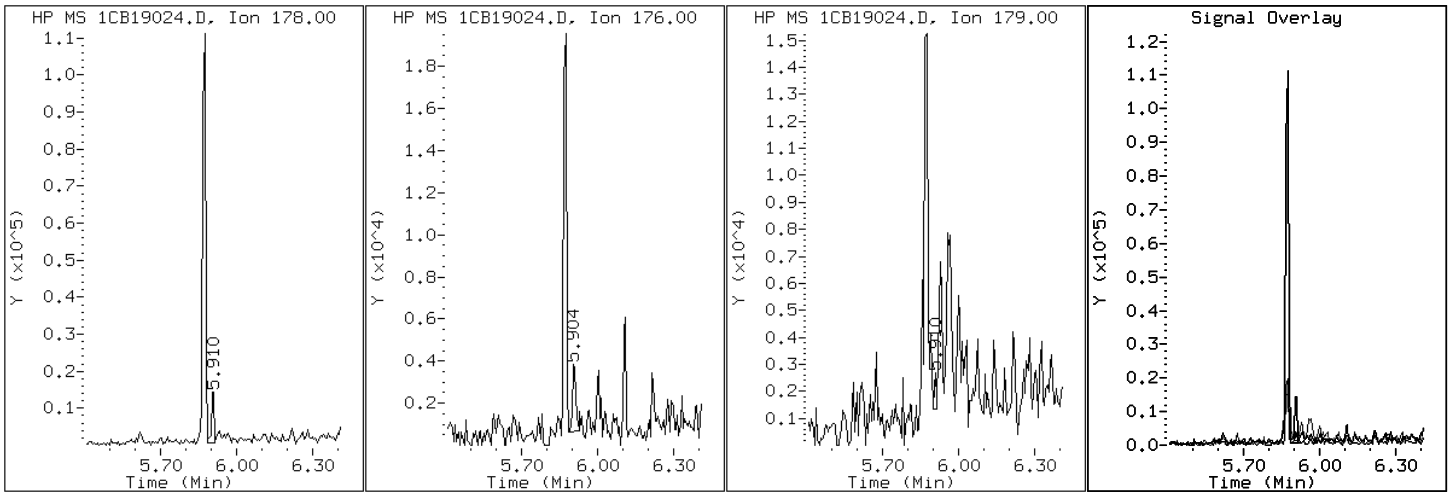
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

12 Anthracene



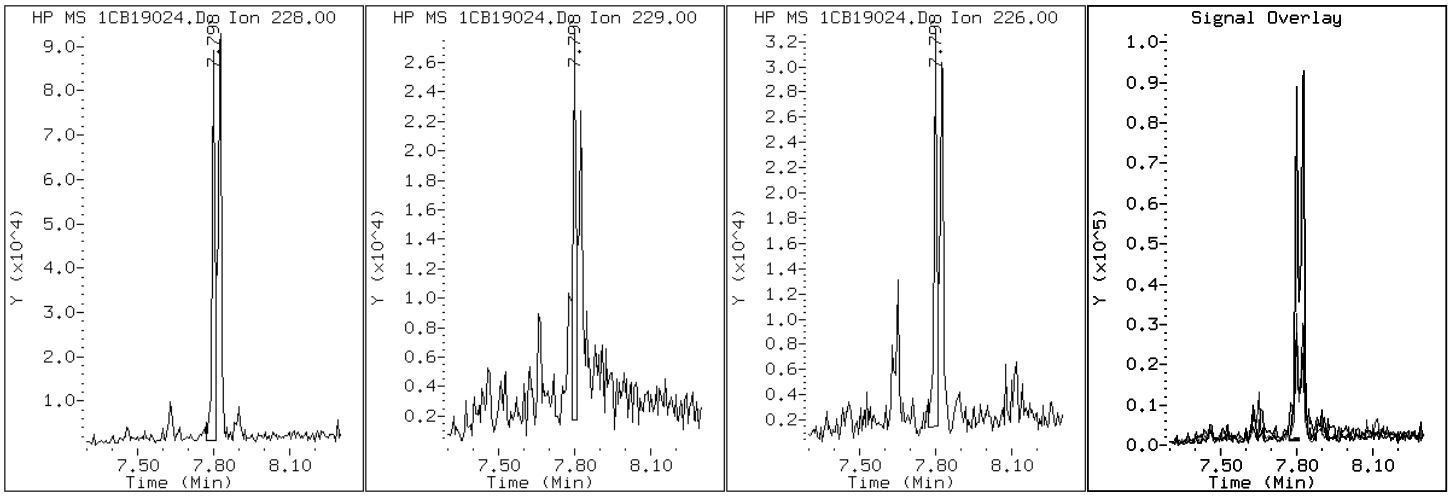
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

17 Benzo(a)anthracene



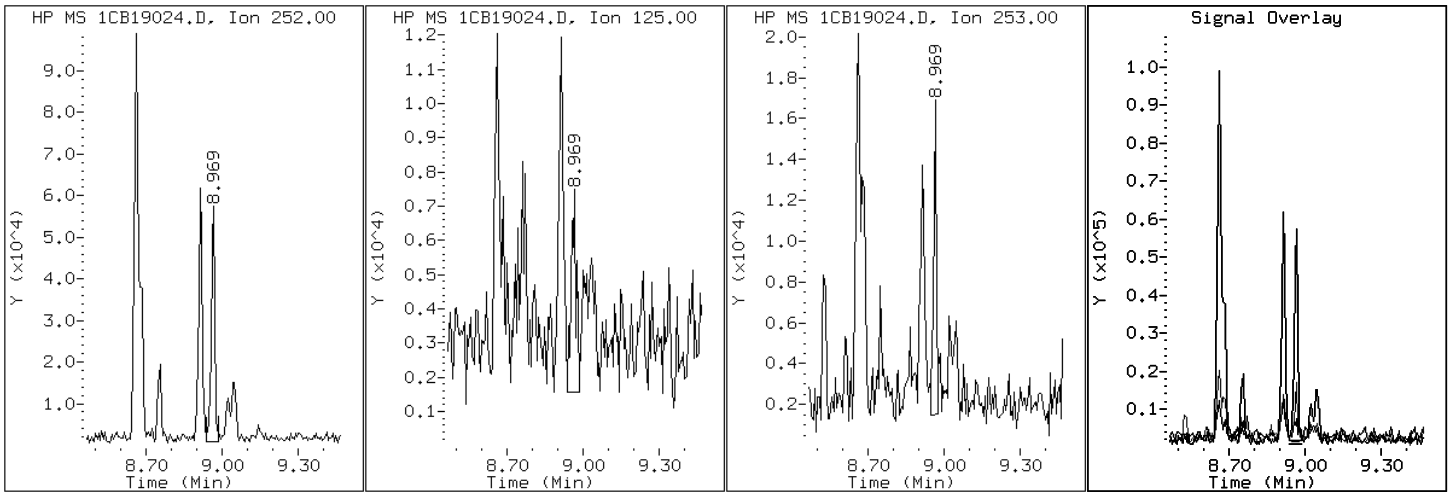
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

22 Benzo(a)pyrene



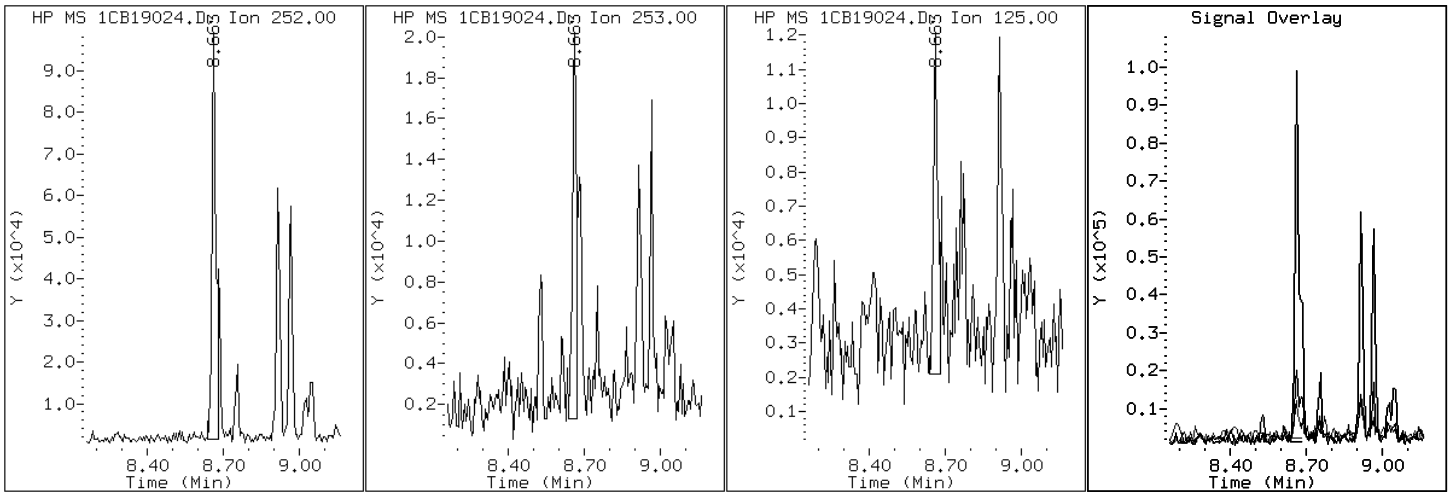
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

20 Benzo(b)fluoranthene



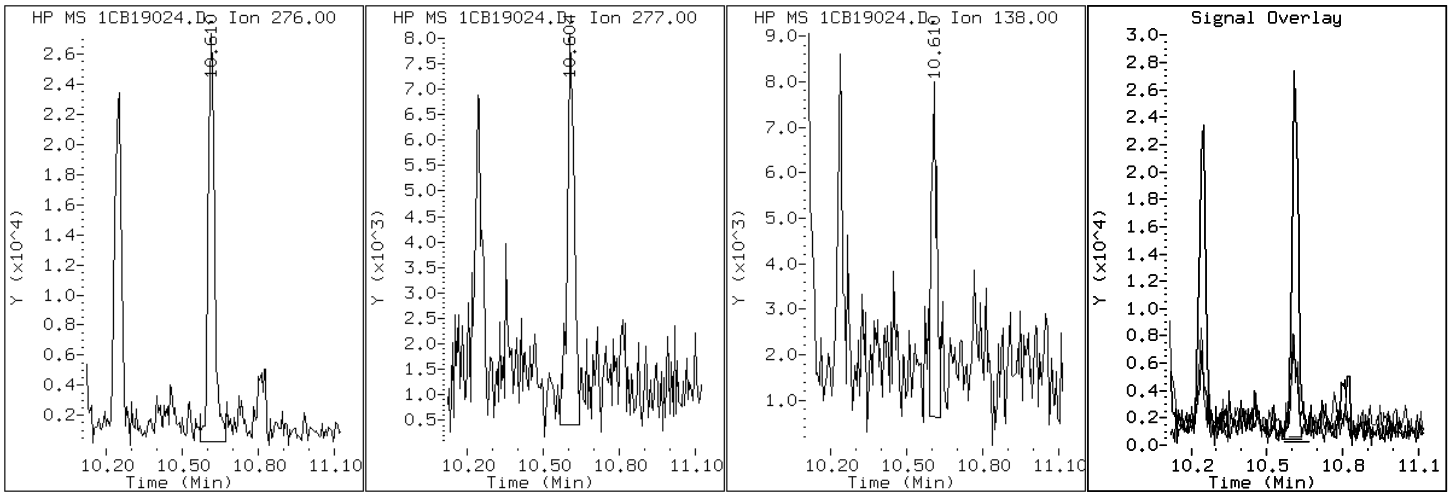
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

26 Benzo(g,h,i)perylene



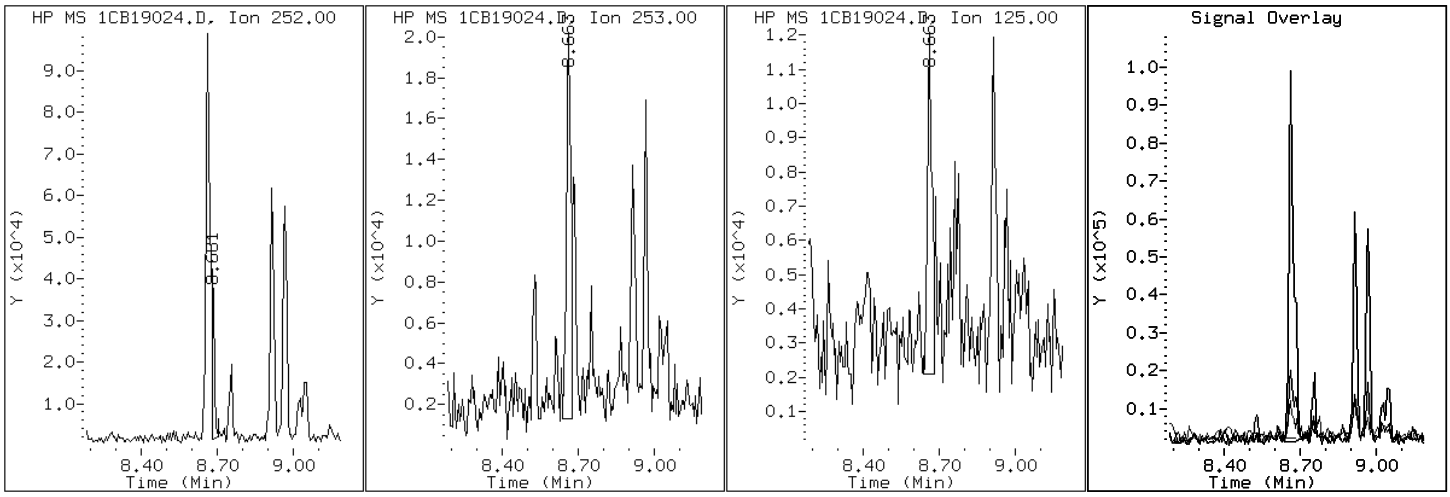
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

21 Benzo(k)fluoranthene



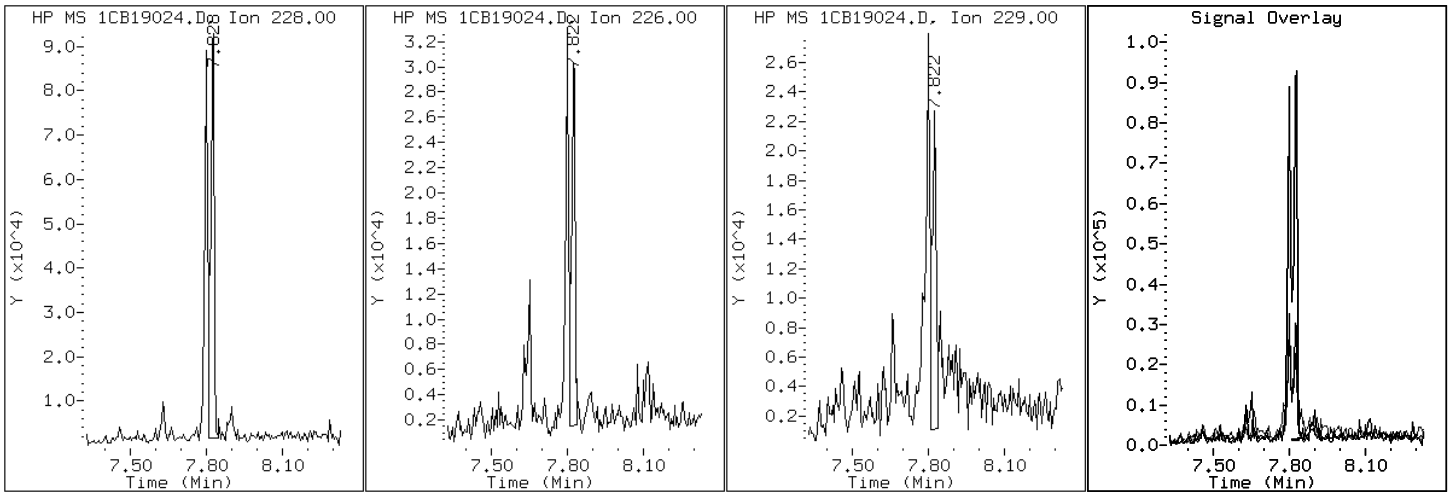
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

19 Chrysene



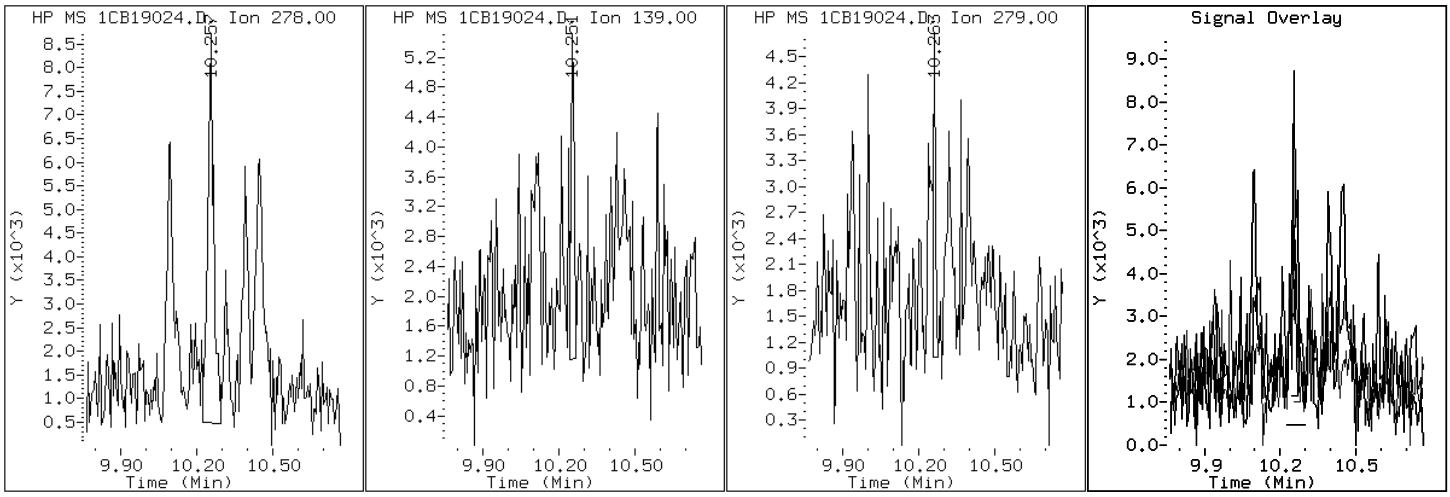
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

25 Dibenzo(a,h)anthracene



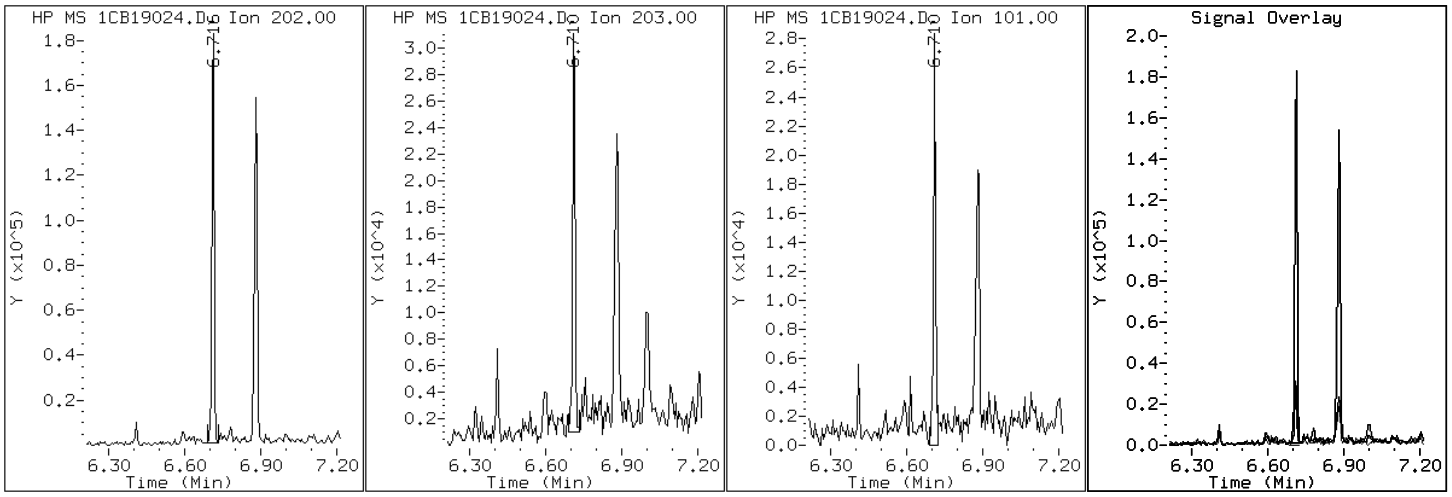
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

15 Fluoranthene



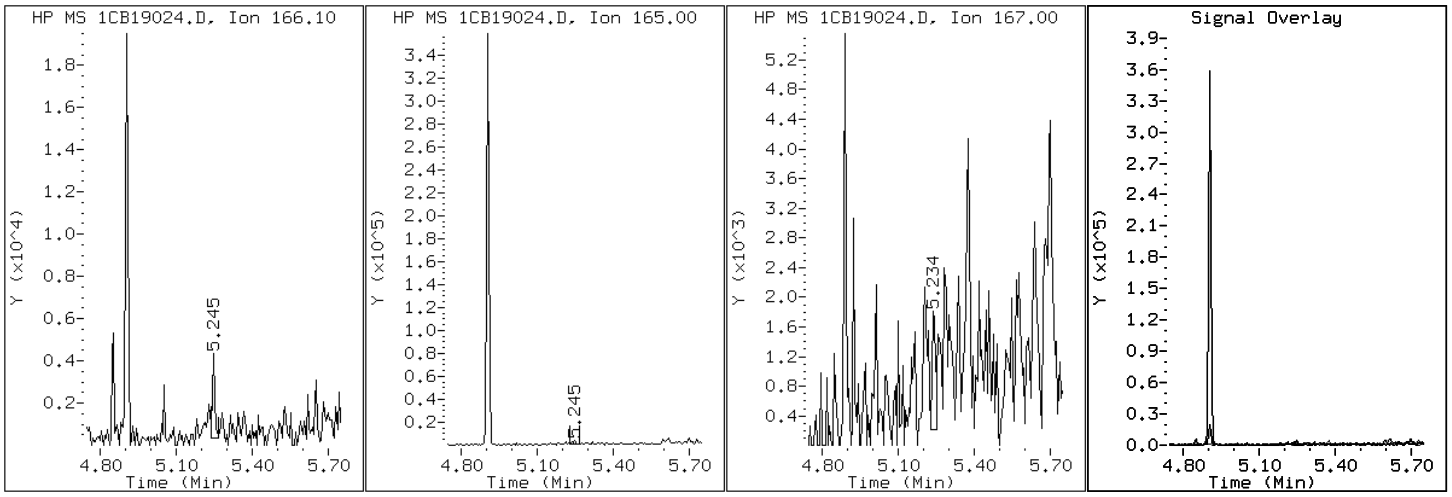
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

9 Fluorene



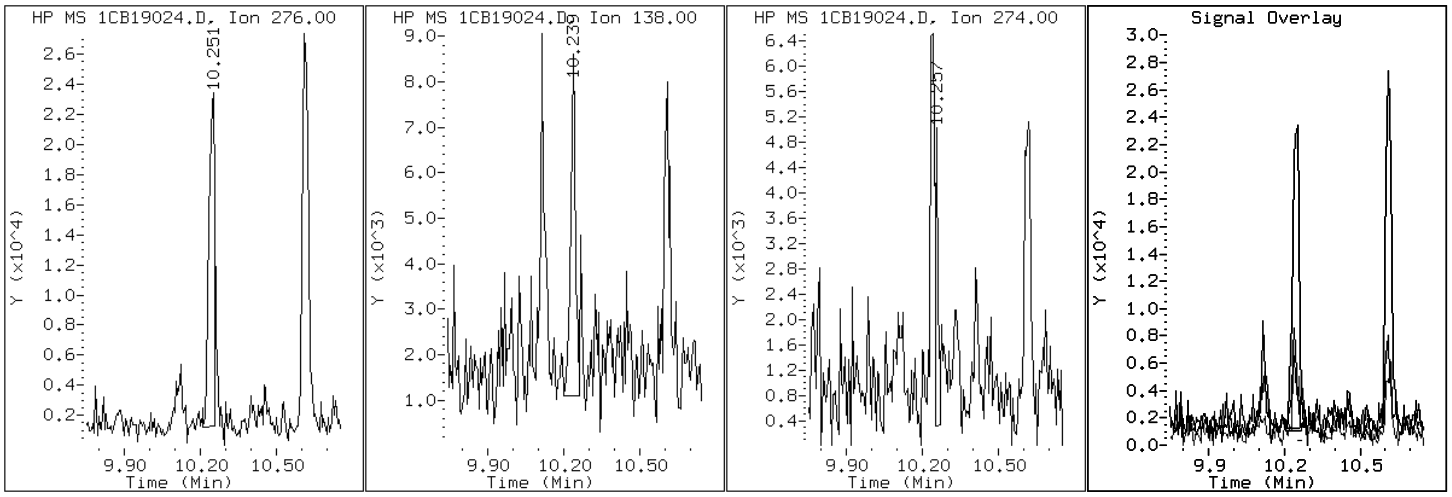
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

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



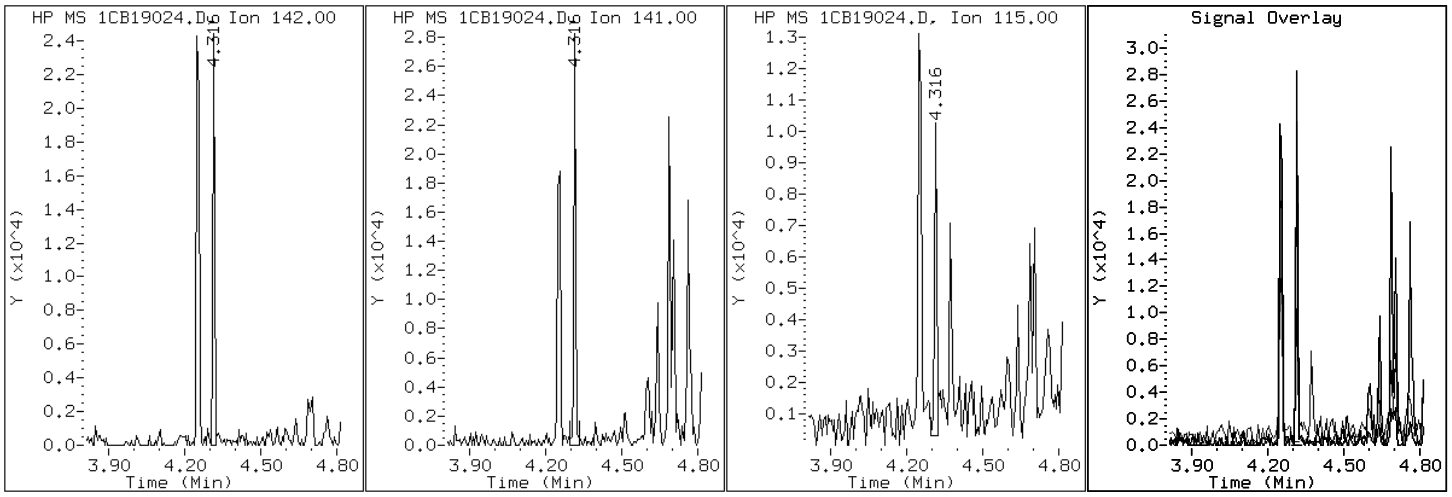
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

4 1-Methylnaphthalene



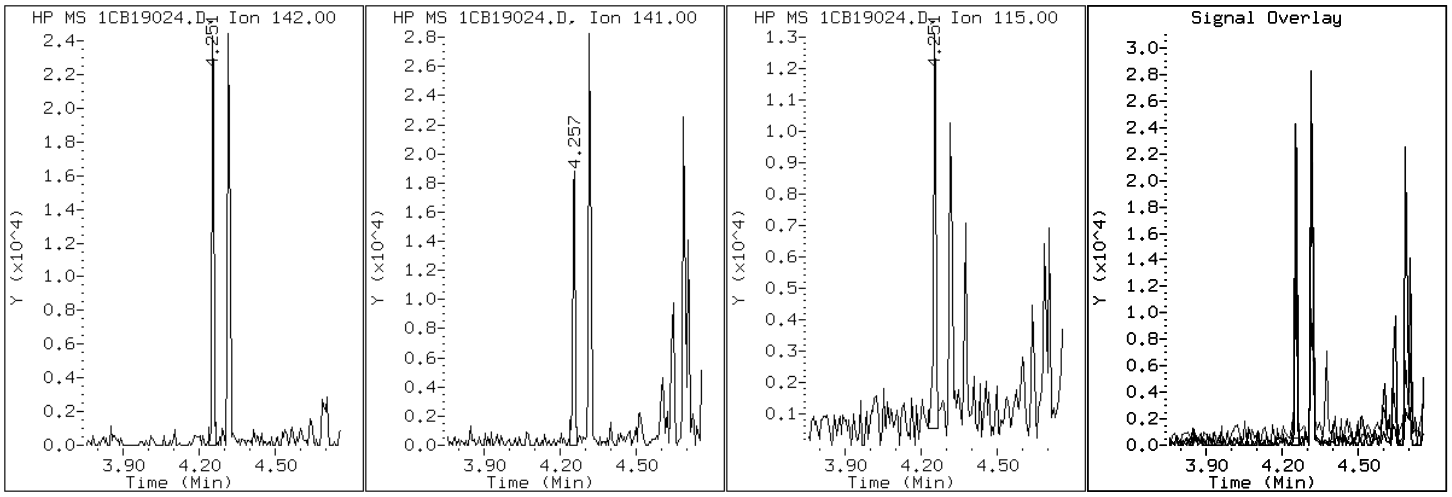
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

3 2-Methylnaphthalene



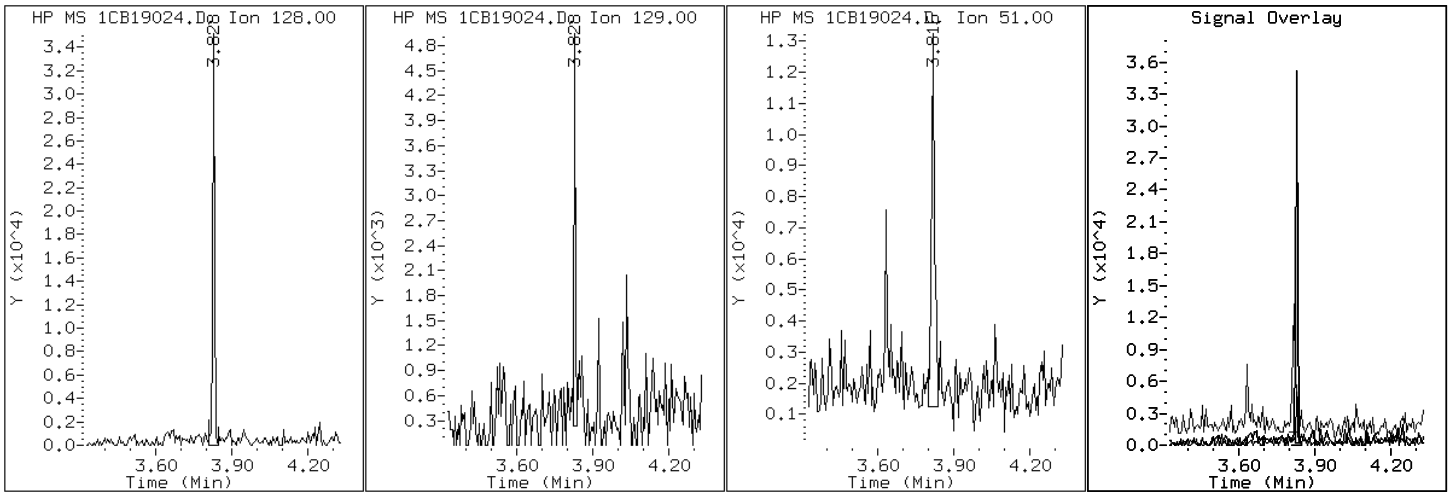
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

2 Naphthalene



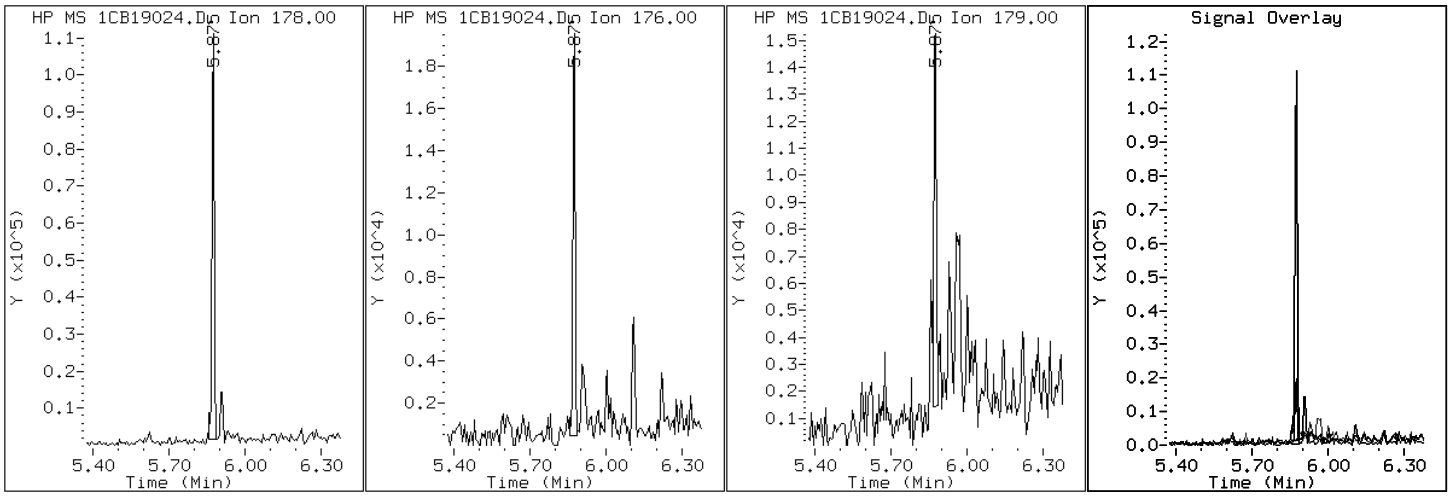
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

11 Phenanthrene



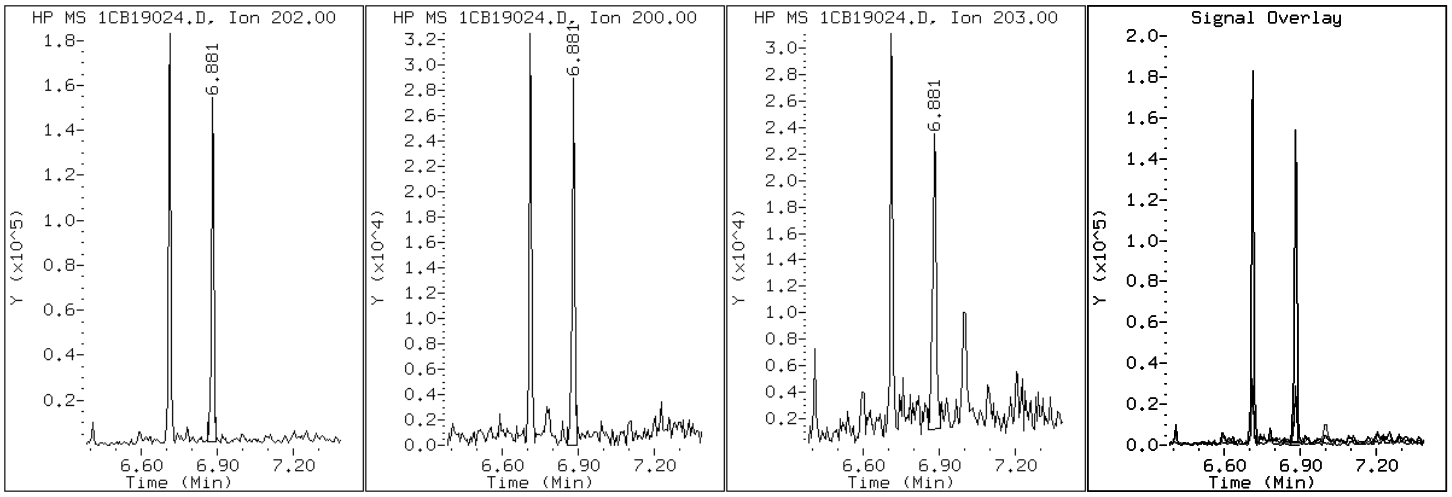
Data File: 1CB19024.D

Date: 19-FEB-2013 20:34

Client ID: CV0748XX-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-28-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19024.D
Inj. Date and Time: 19-FEB-2013 20:34
Instrument ID: BSMC5973.i
Client ID: CV0748XX-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/20/2013

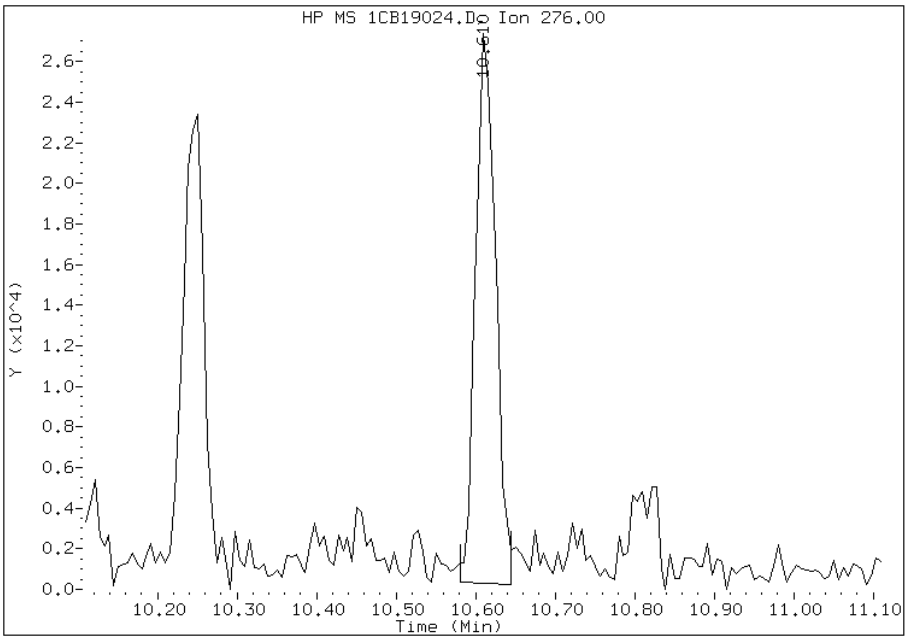
Processing Integration Results

RT: 10.61

Response: 47117

Amount: 1

Conc: 210



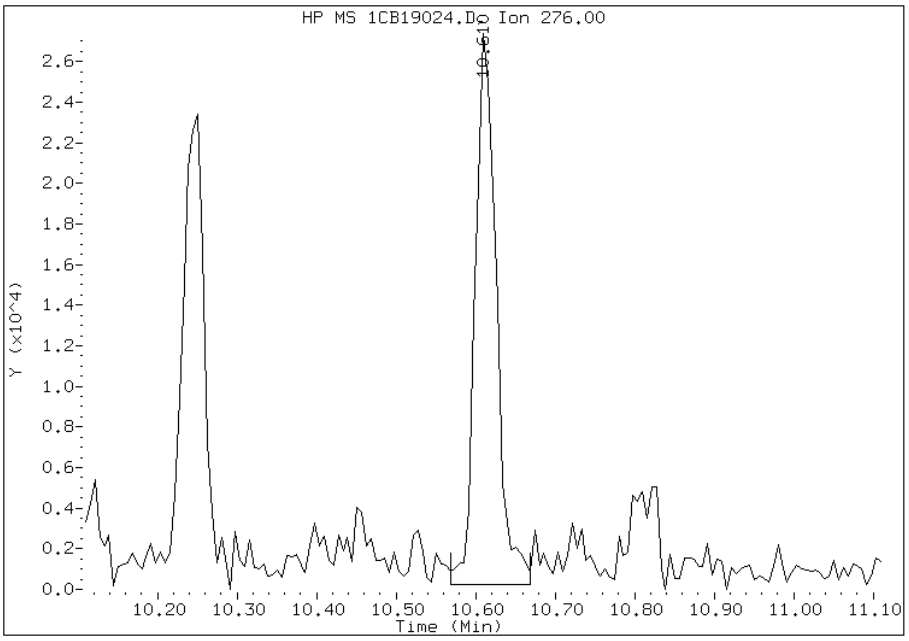
Manual Integration Results

RT: 10.61

Response: 49608

Amount: 1

Conc: 221



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19024.D
Inj. Date and Time: 19-FEB-2013 20:34
Instrument ID: BSMC5973.i
Client ID: CV0748XX-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

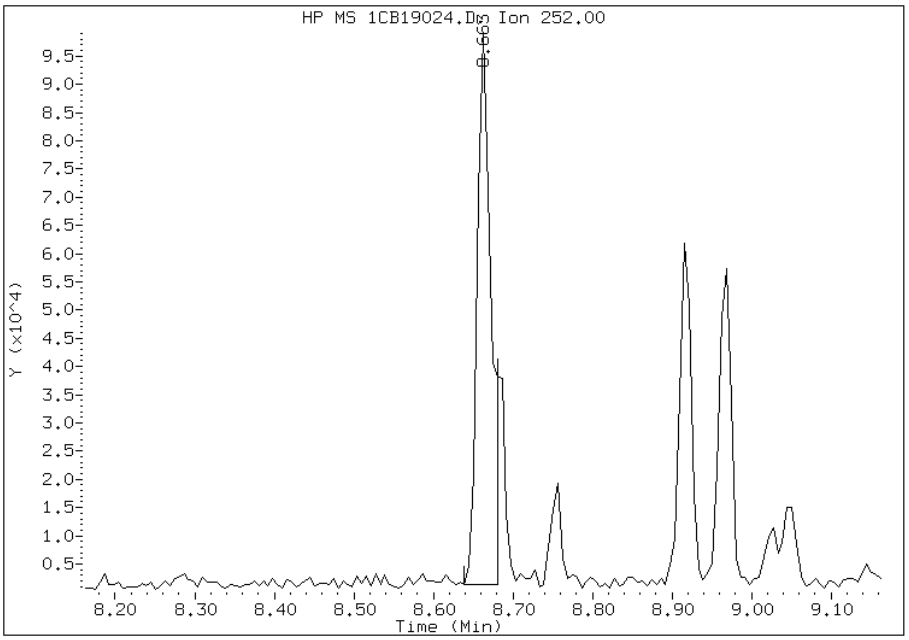
Processing Integration Results

RT: 8.66

Response: 118439

Amount: 2

Conc: 445



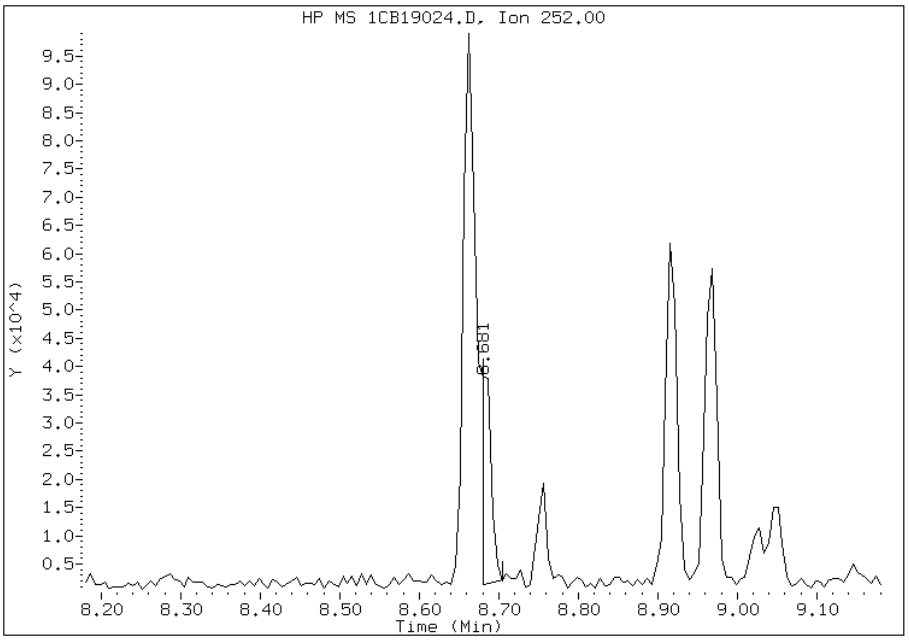
Manual Integration Results

RT: 8.68

Response: 31003

Amount: 0

Conc: 117



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:48
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CB19024.D
Inj. Date and Time: 19-FEB-2013 20:34
Instrument ID: BSMC5973.i
Client ID: CV0748XX-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

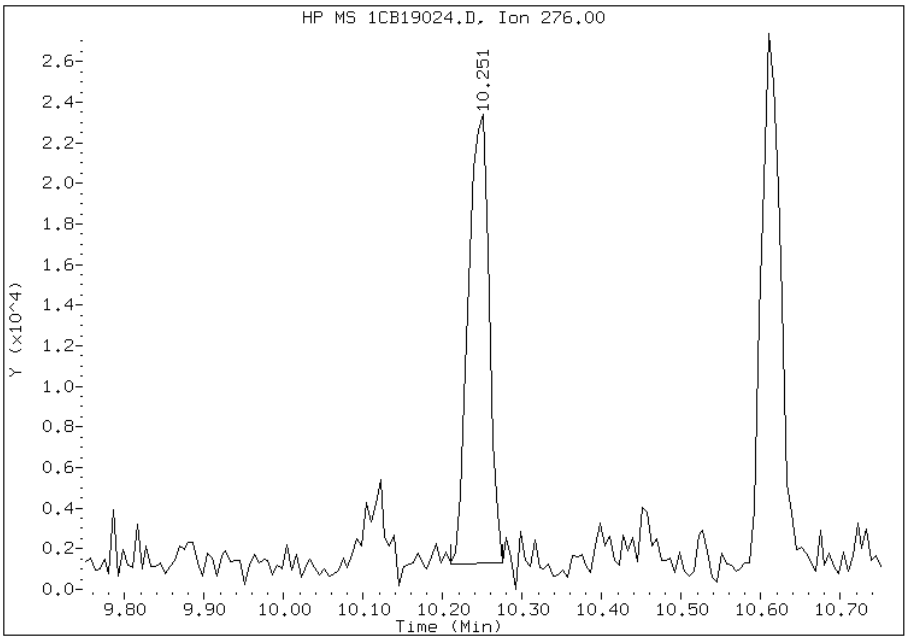
Processing Integration Results

RT: 10.25

Response: 39941

Amount: 1

Conc: 181



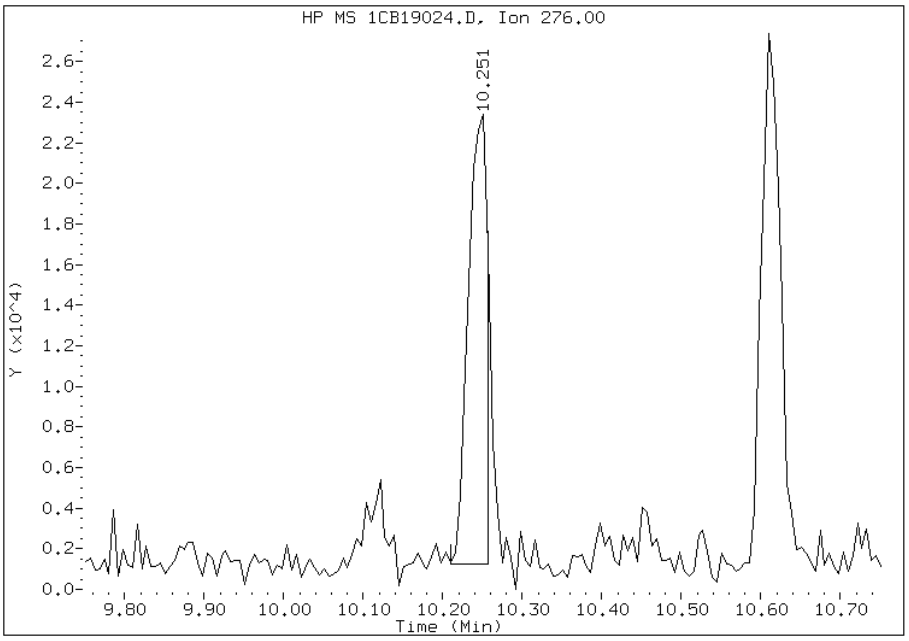
Manual Integration Results

RT: 10.25

Response: 36926

Amount: 1

Conc: 167



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748YY-CS | Lab Sample ID: 680-87320-29

Matrix: Solid | Lab File ID: 1CB19025.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 14:24

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 15.41(g) | Date Analyzed: 02/19/2013 20:52

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

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

% Moisture: 10.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430	U	430	87
208-96-8	Acenaphthylene	35	J	170	22
120-12-7	Anthracene	63		36	18
56-55-3	Benzo[a]anthracene	330		35	17
50-32-8	Benzo[a]pyrene	310		45	23
205-99-2	Benzo[b]fluoranthene	510		53	26
191-24-2	Benzo[g,h,i]perylene	200		87	19
207-08-9	Benzo[k]fluoranthene	140		35	16
218-01-9	Chrysene	360		39	19
53-70-3	Dibenz(a,h)anthracene	76	J	87	18
206-44-0	Fluoranthene	490		87	17
86-73-7	Fluorene	25	J	87	18
193-39-5	Indeno[1,2,3-cd]pyrene	170		87	31
90-12-0	1-Methylnaphthalene	130	J	170	19
91-57-6	2-Methylnaphthalene	150	J	170	31
91-20-3	Naphthalene	120	J	170	19
85-01-8	Phenanthrene	350		35	17
129-00-0	Pyrene	470		87	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	109		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19025.D
Lab Smp Id: 680-87320-A-29-A Client Smp ID: CV0748YY-CS
Inj Date : 19-FEB-2013 20:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-29-a
Misc Info : 680-87320-A-29-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 25
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	15.410	Weight Extracted
M	10.067	% 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	3.816	3.816	(1.000)	2044489	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1556165	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2692209	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	107008	2.71270	782.9624
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2662292	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2558984	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	23266	0.42945	123.9513
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	18704	0.53096	153.2501
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	14692	0.45858	132.3583
5 Acenaphthylene	152	4.816	4.816	(0.982)	7591	0.12261	35.3892
9 Fluorene	166	5.245	5.245	(1.070)	4248	0.08523	24.5987
11 Phenanthrene	178	5.874	5.874	(1.003)	96386	1.19942	346.1859
12 Anthracene	178	5.904	5.910	(1.008)	15844	0.21883	63.1612
13 Carbazole	167	6.015	6.015	(1.027)	12470	0.19828	57.2298

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	132852	1.69188	488.3231
16 Pyrene	202	6.880	6.886	(0.882)	114653	1.61764	466.8965
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	83094	1.13182	326.6746
19 Chrysene	228	7.821	7.827	(1.002)	95290	1.25654	362.6729
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	109818	1.75042	505.2217(M)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	33274	0.48142	138.9512(QM)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	64854	1.08636	313.5529
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.251	(1.136)	34511	0.60187	173.7176(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.268	(1.136)	14200	0.26261	75.7975(M)
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.176)	41330	0.70959	204.8063

QC Flag Legend

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

Data File: 1CB19025.D

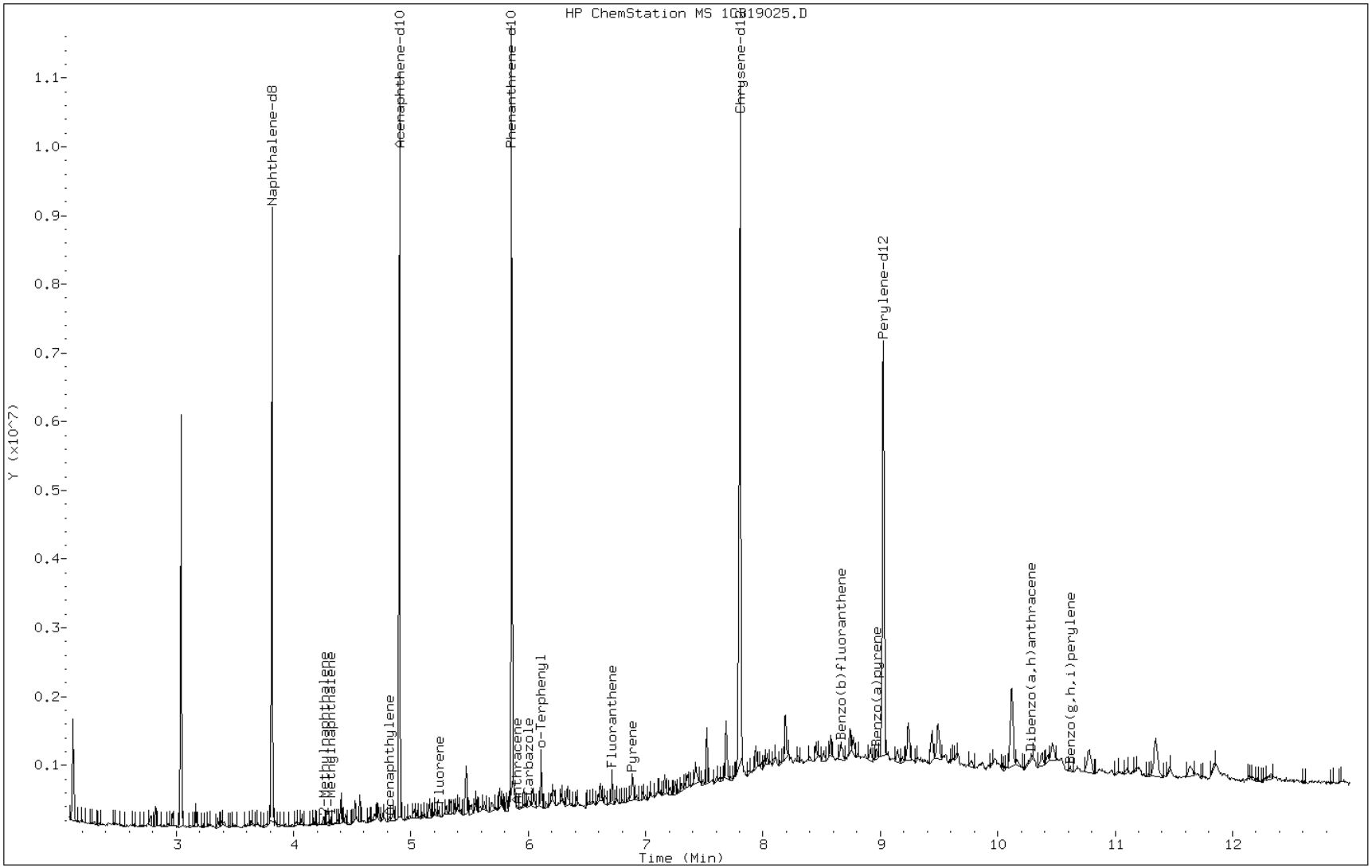
Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a

Operator: SCC



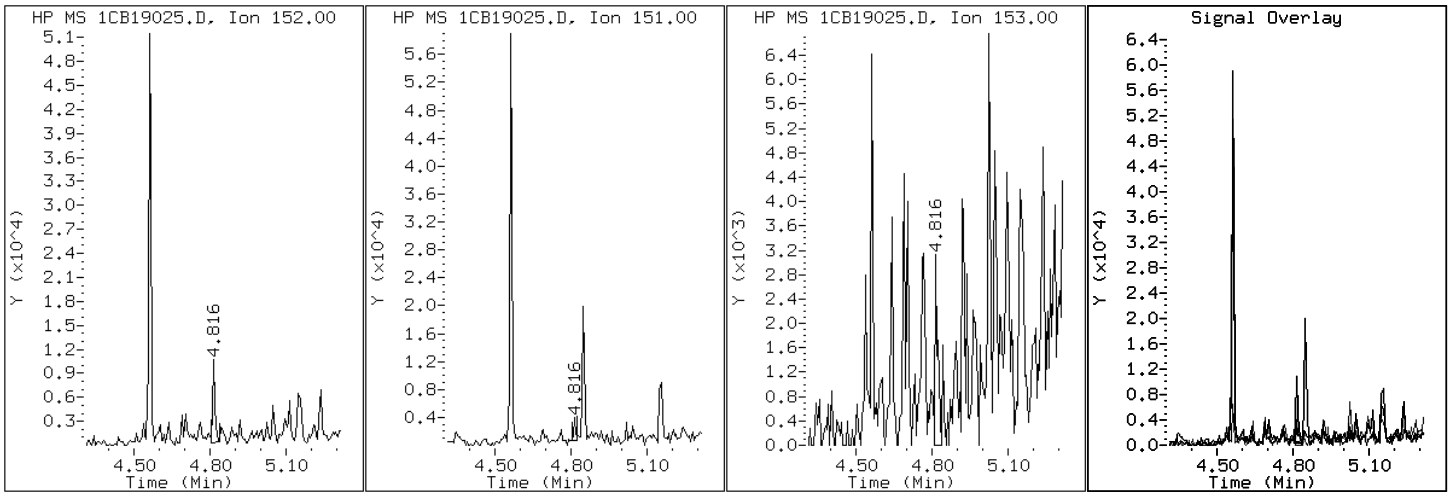
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

5 Acenaphthylene



Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

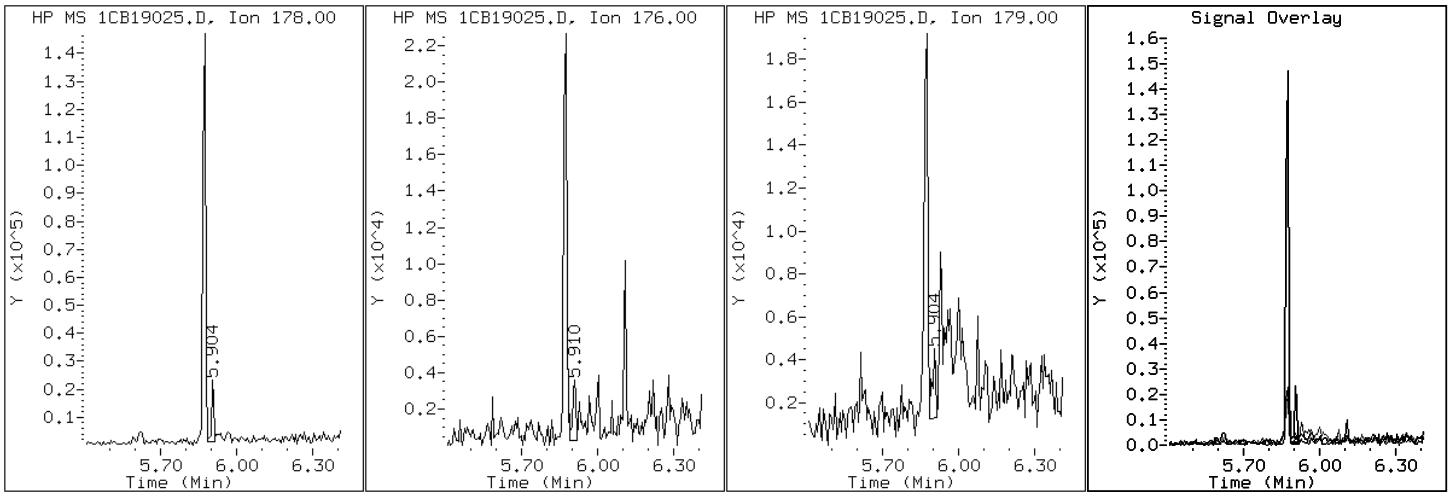
Client ID: CV0748YY-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a

Operator: SCC

12 Anthracene



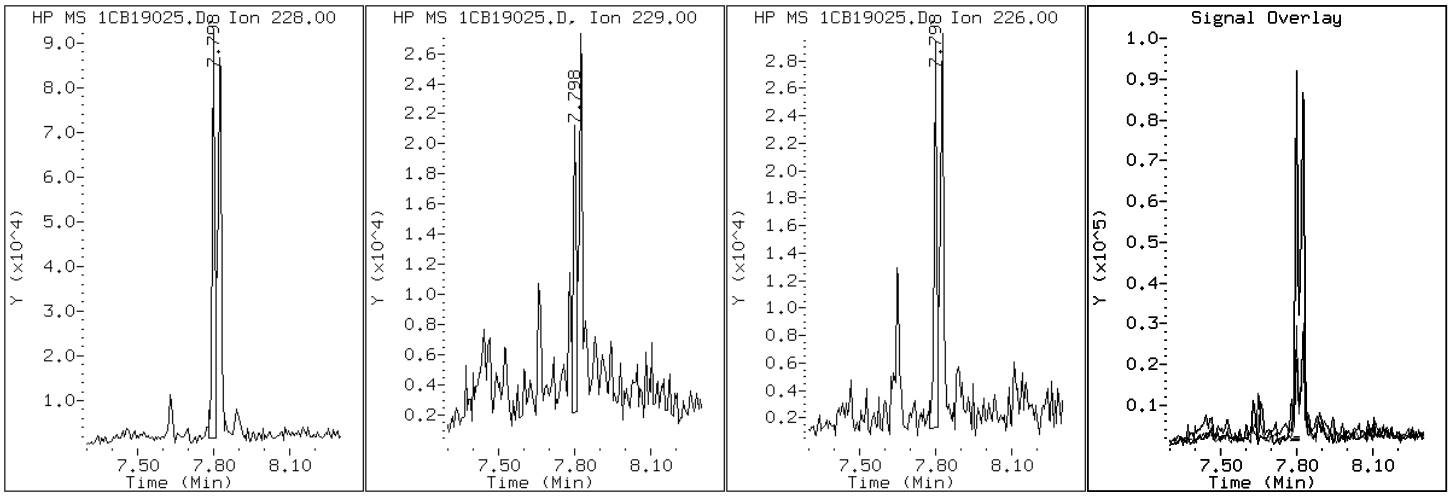
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

17 Benzo(a)anthracene



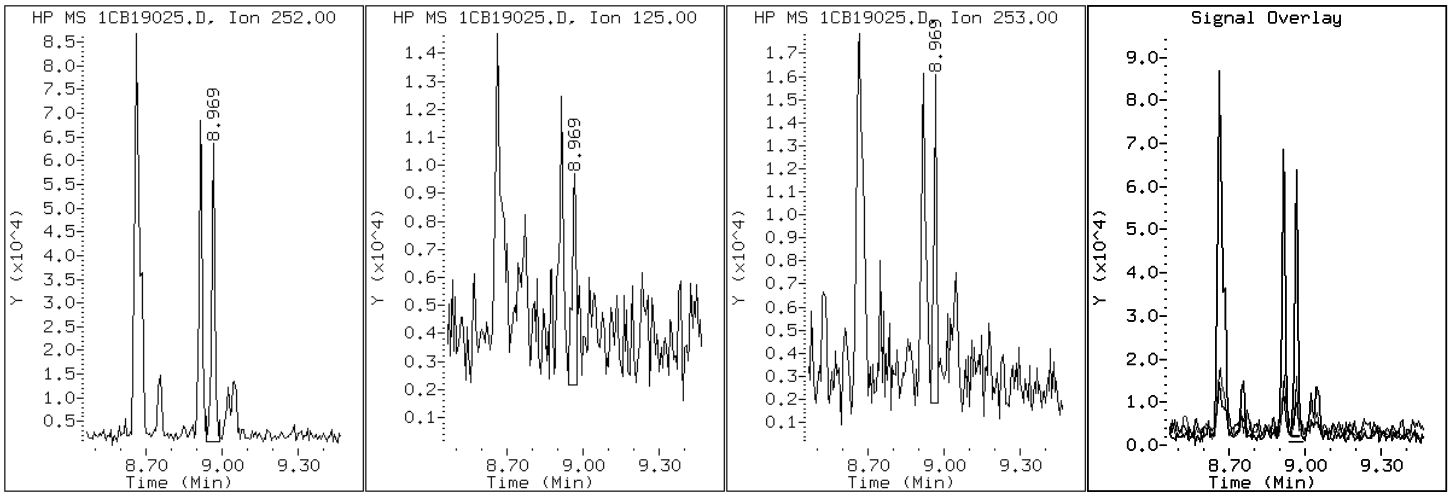
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

22 Benzo(a)pyrene



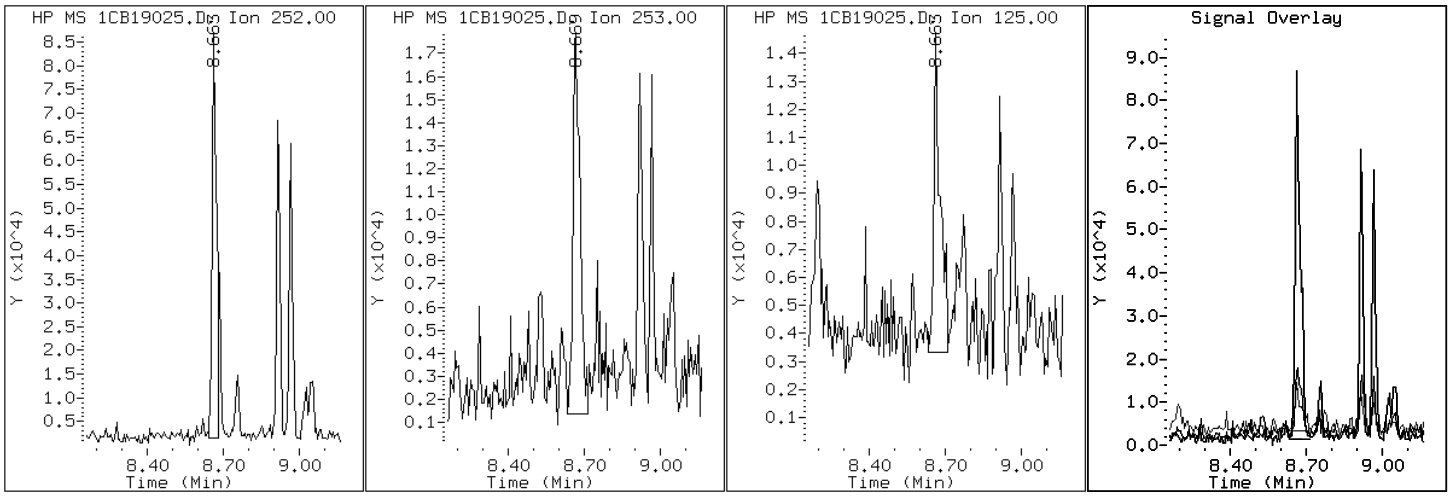
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

20 Benzo(b)fluoranthene



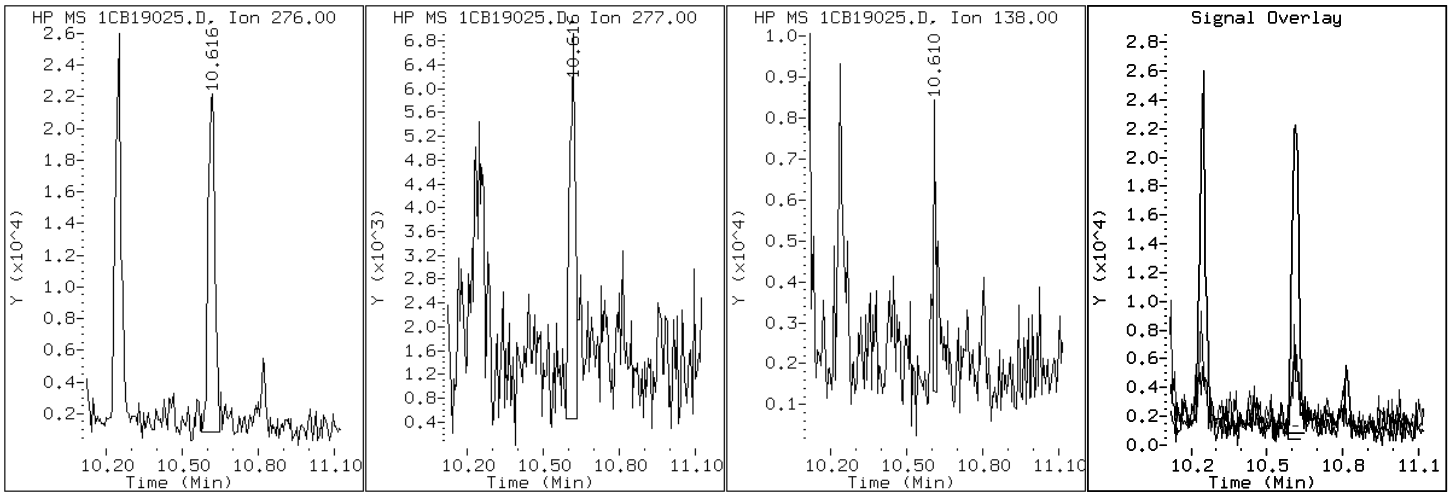
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

26 Benzo(g,h,i)perylene



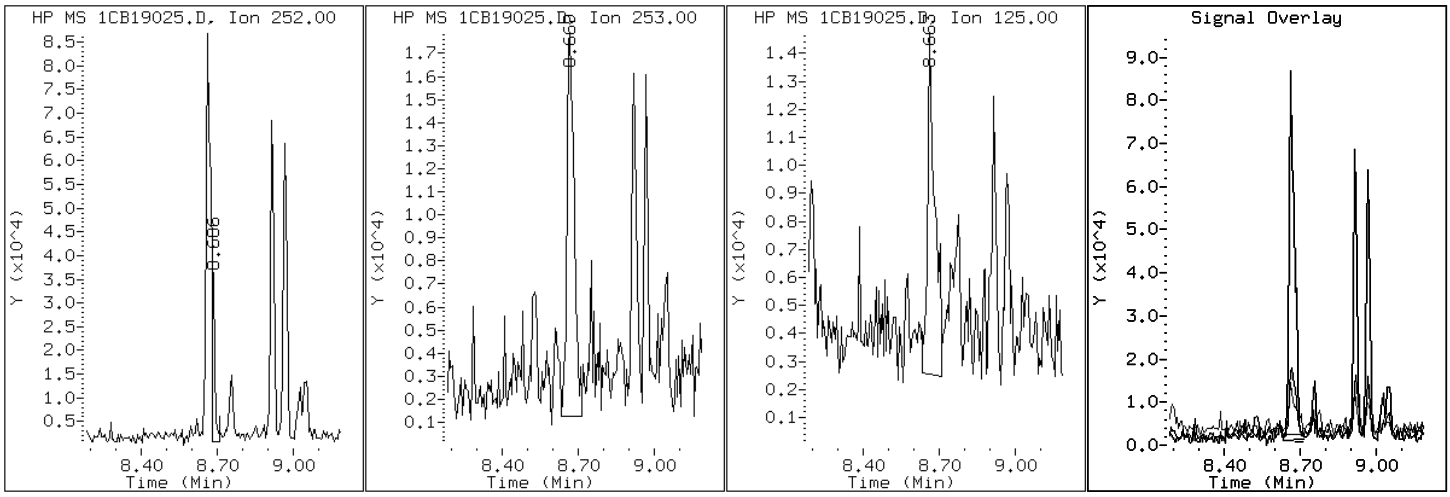
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

21 Benzo(k)fluoranthene



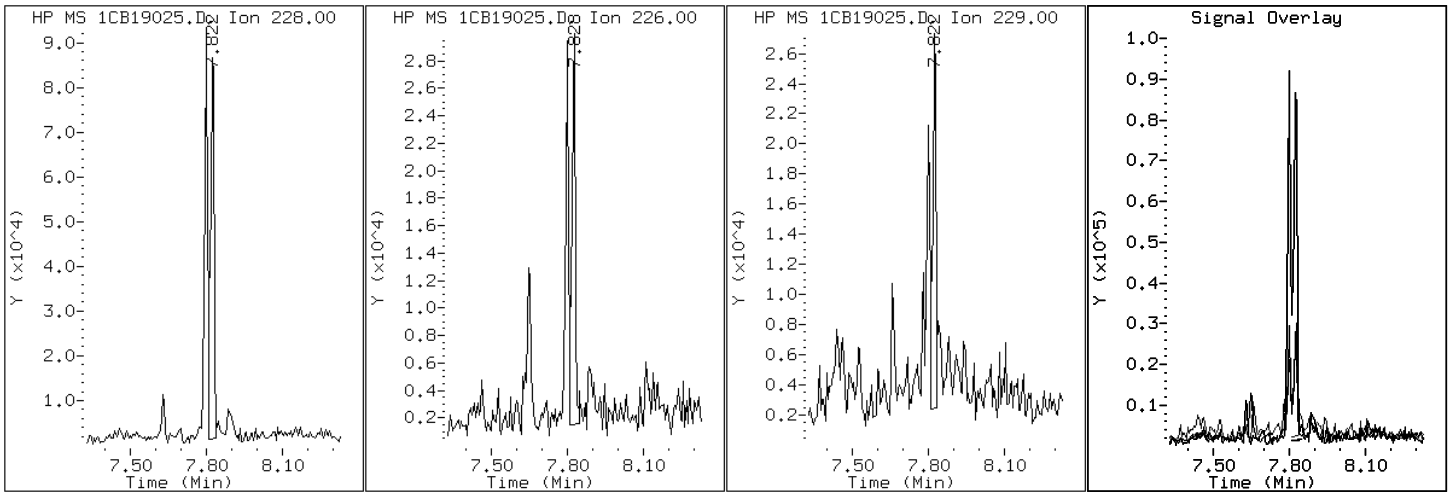
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

19 Chrysene



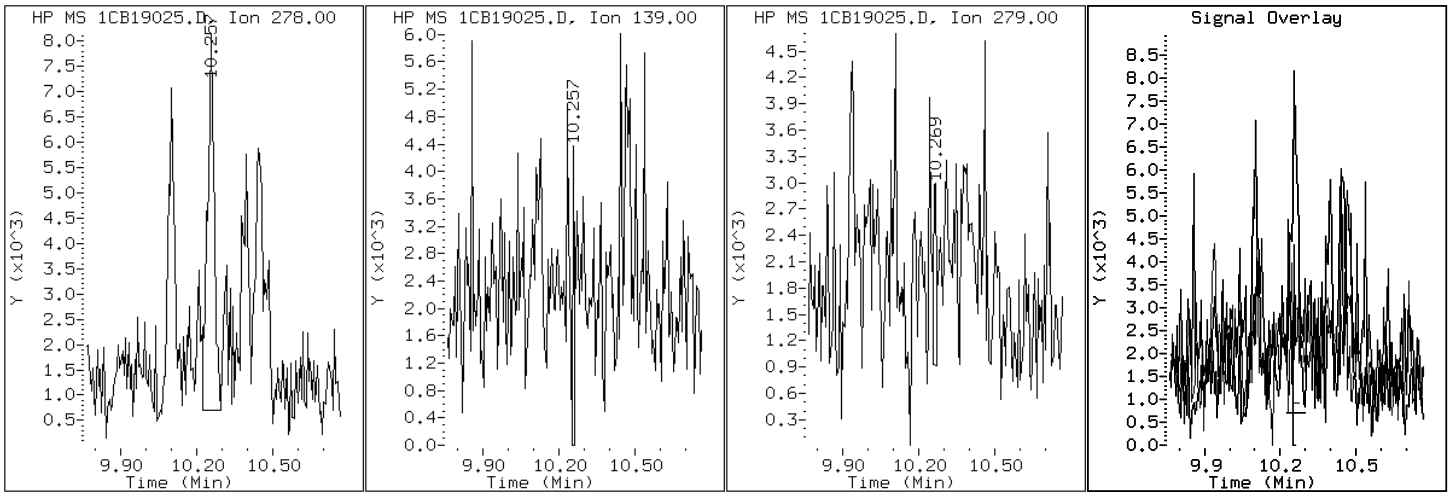
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

25 Dibenzo(a,h)anthracene



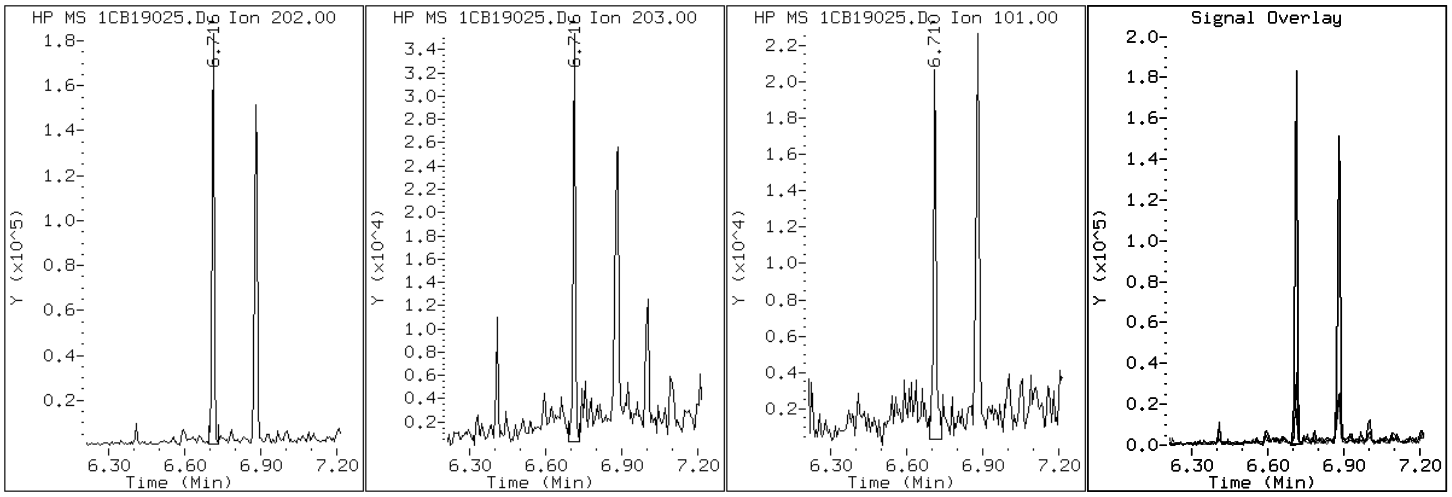
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

15 Fluoranthene



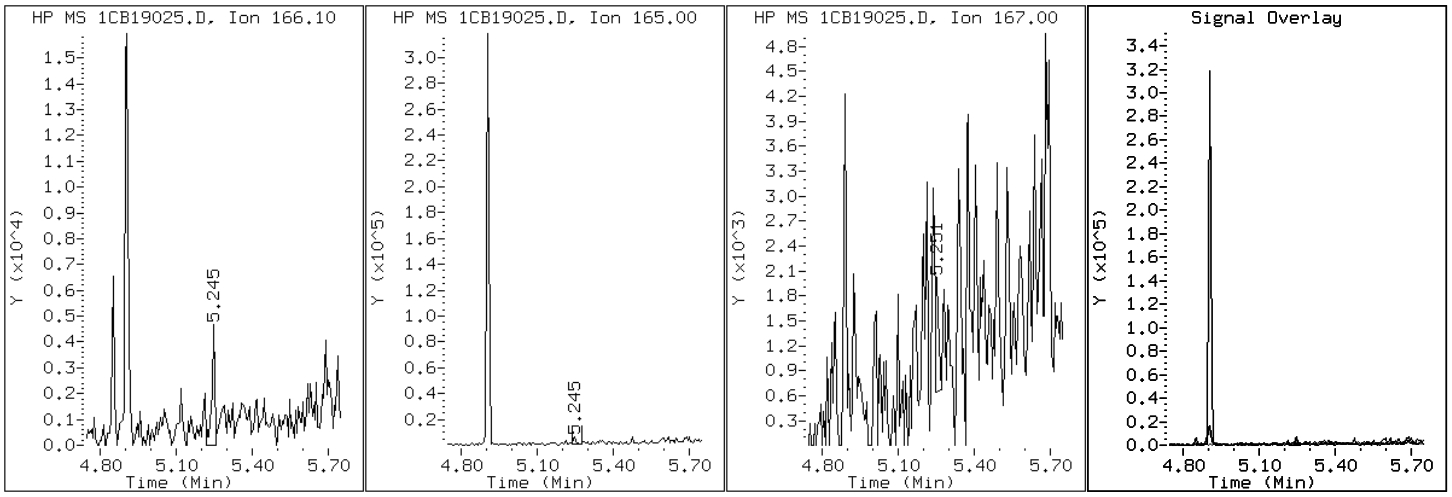
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

9 Fluorene



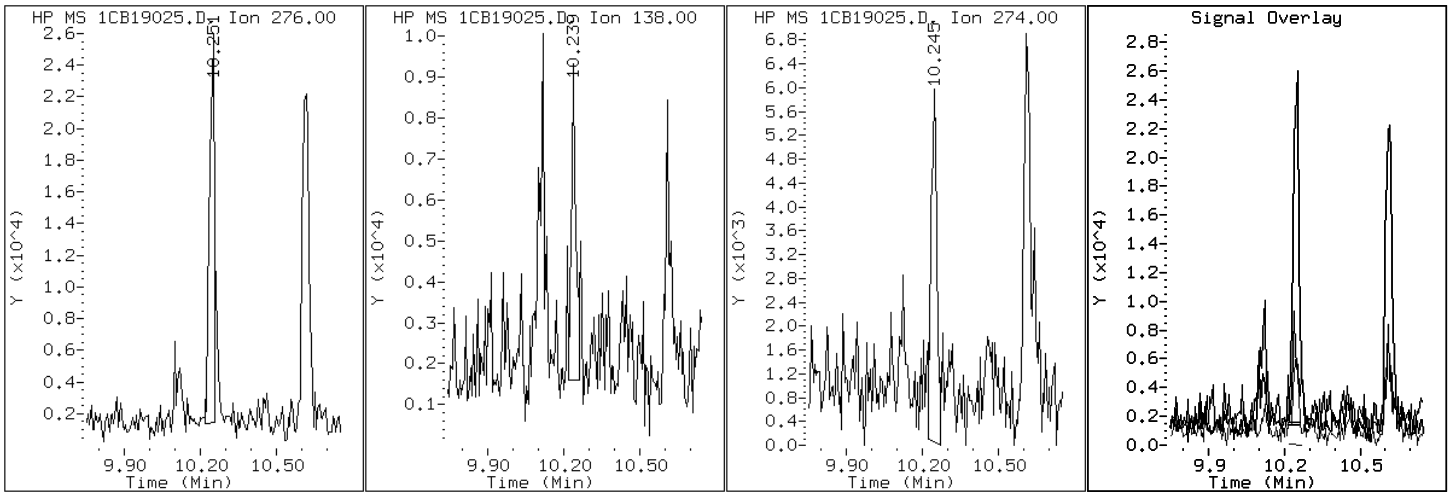
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

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



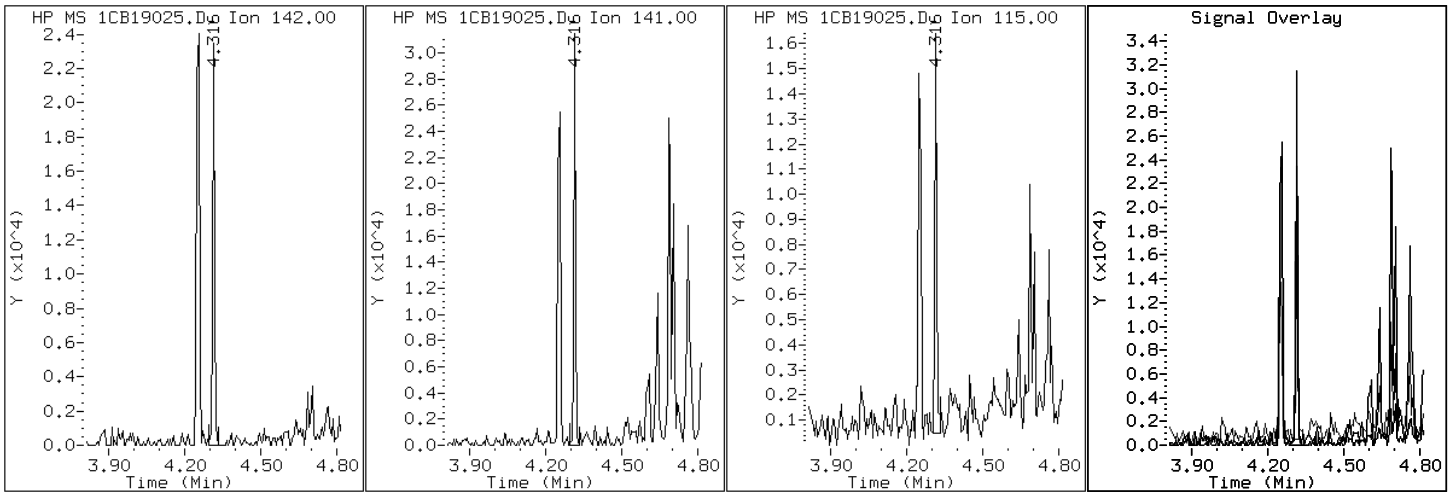
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

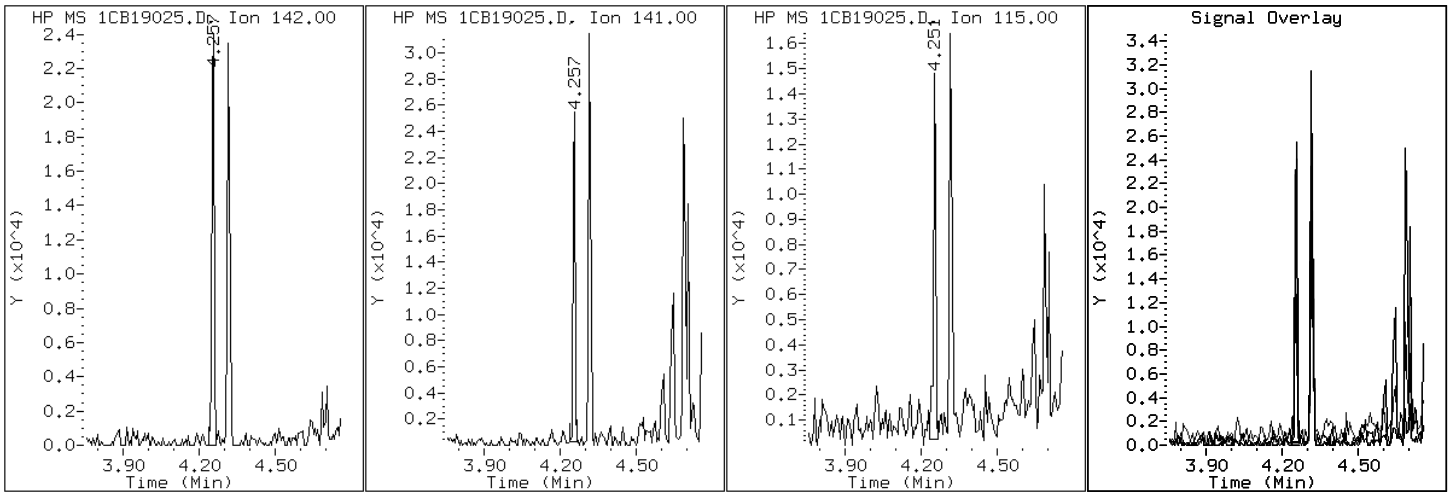
Client ID: CV0748YY-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a

Operator: SCC

3 2-Methylnaphthalene



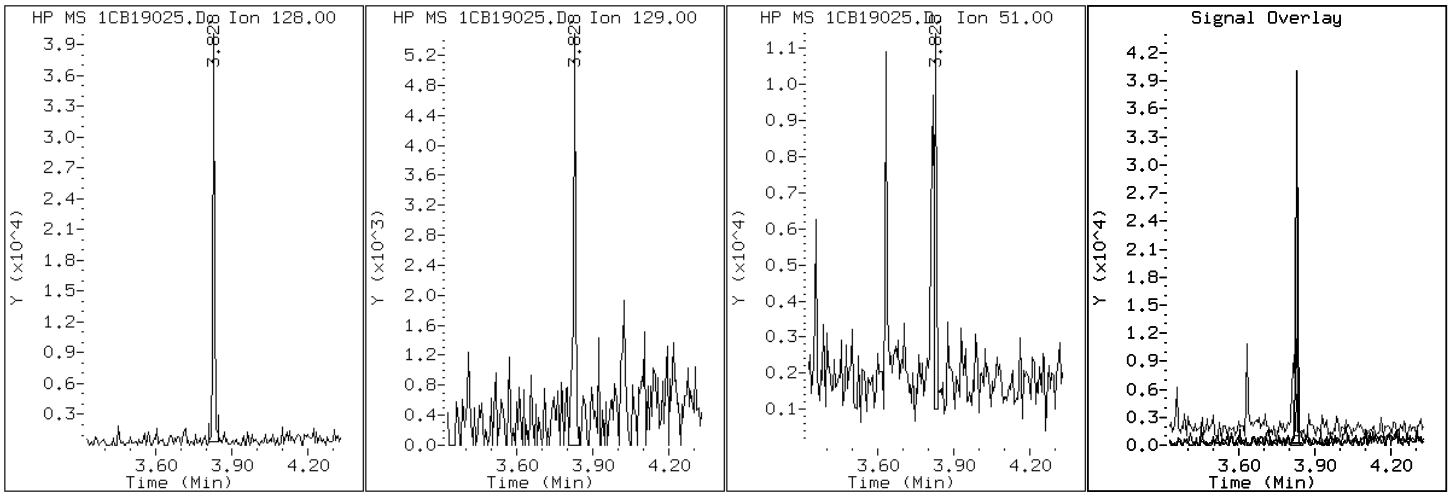
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

2 Naphthalene



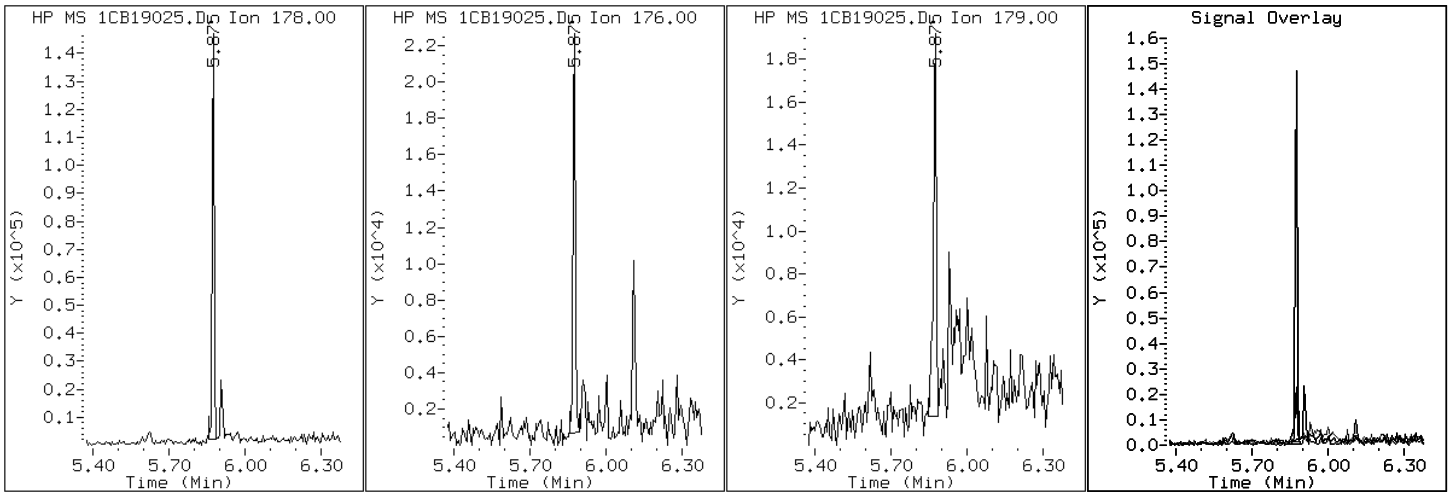
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

11 Phenanthrene



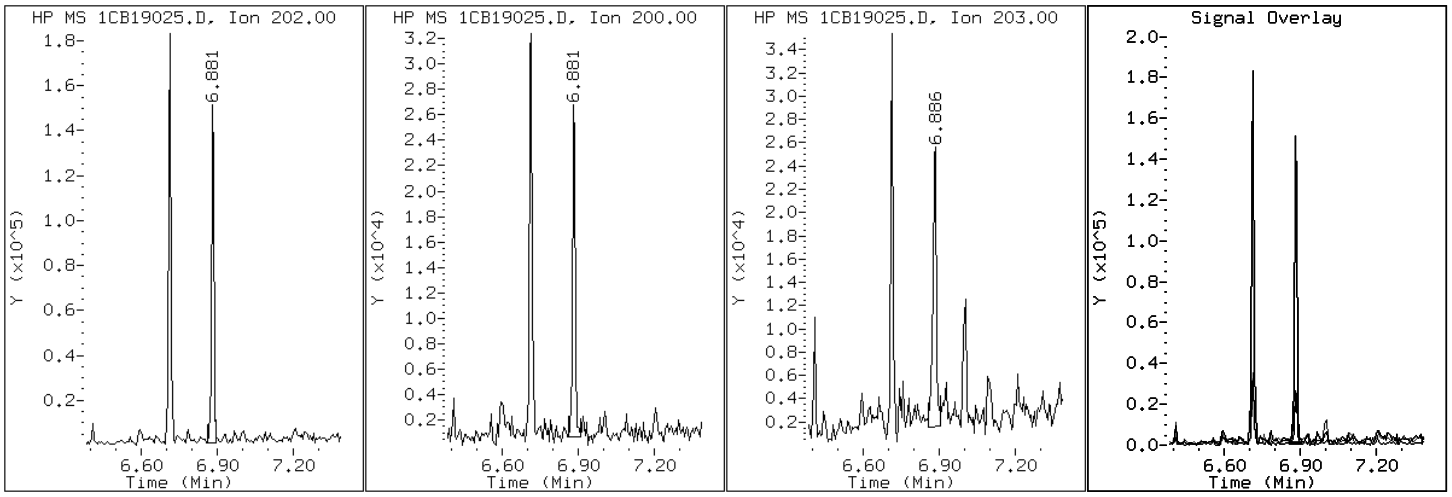
Data File: 1CB19025.D

Date: 19-FEB-2013 20:52

Client ID: CV0748YY-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-29-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19025.D
Inj. Date and Time: 19-FEB-2013 20:52
Instrument ID: BSMC5973.i
Client ID: CV0748YY-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

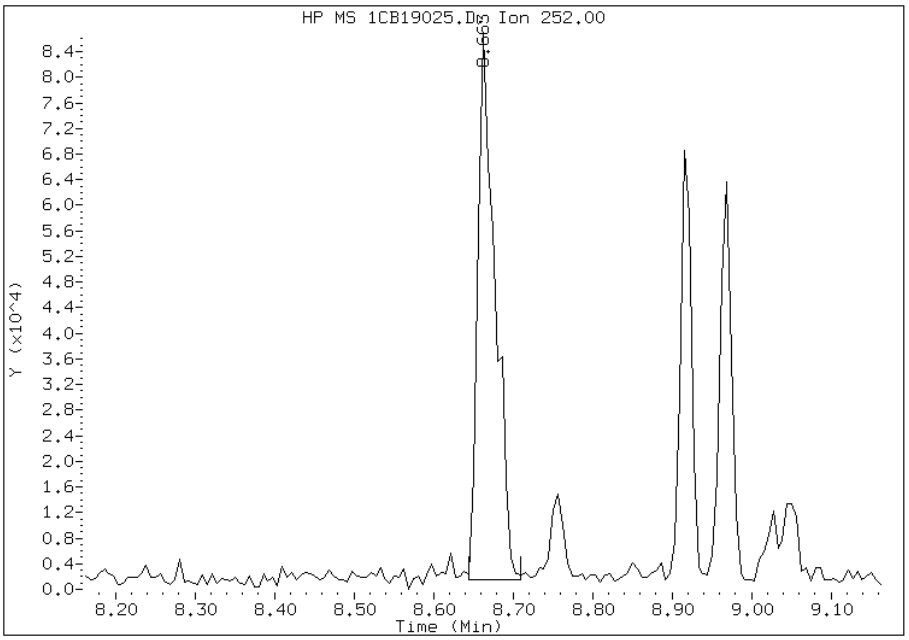
Processing Integration Results

RT: 8.66

Response: 129329

Amount: 2

Conc: 595



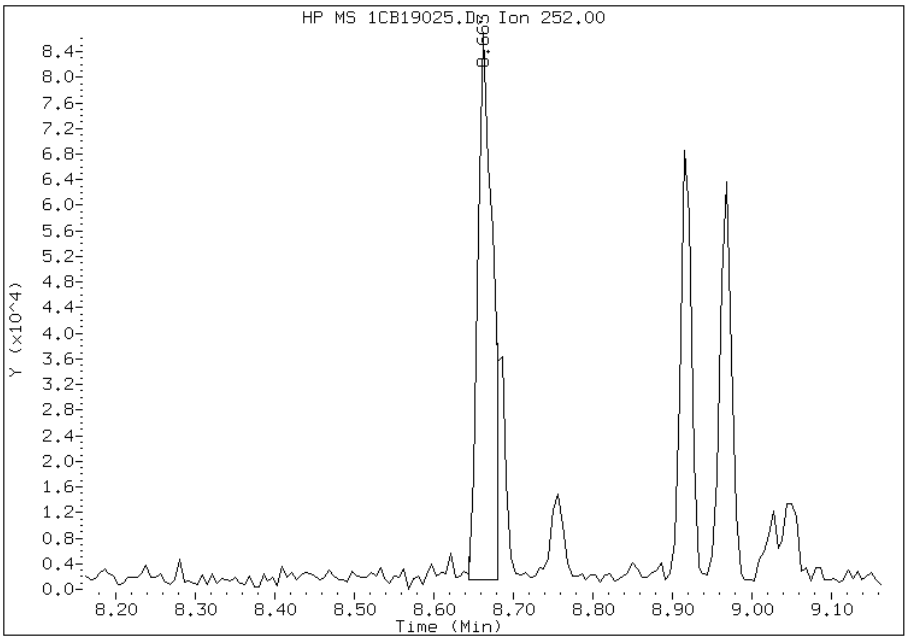
Manual Integration Results

RT: 8.66

Response: 109818

Amount: 2

Conc: 505



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:49
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19025.D
Inj. Date and Time: 19-FEB-2013 20:52
Instrument ID: BSMC5973.i
Client ID: CV0748YY-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

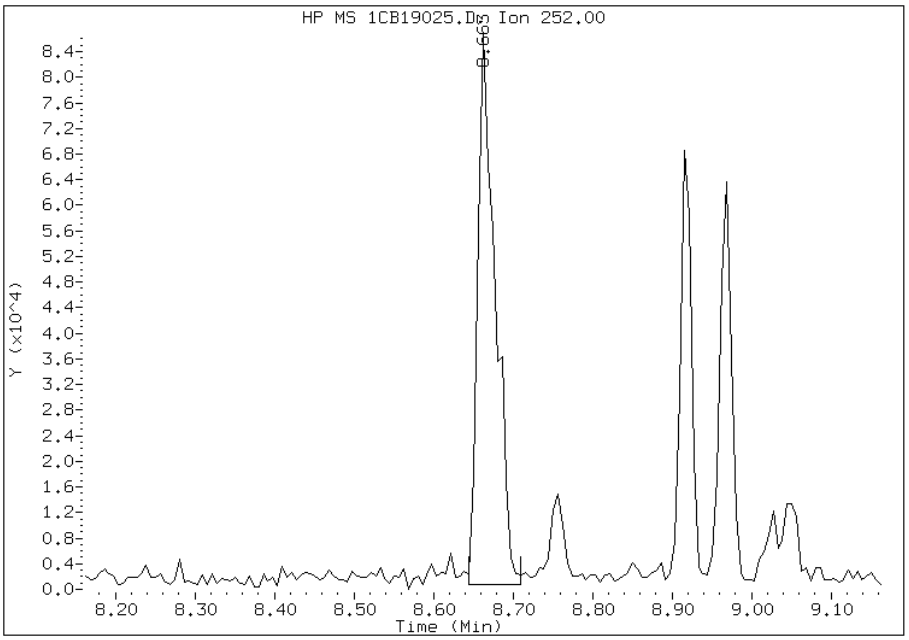
Processing Integration Results

RT: 8.66

Response: 132258

Amount: 2

Conc: 552



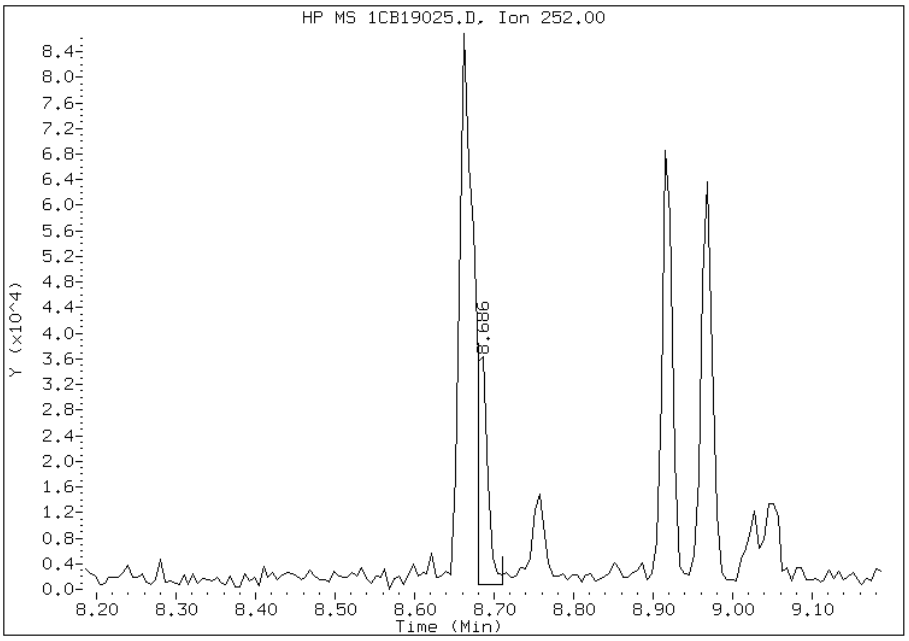
Manual Integration Results

RT: 8.69

Response: 33274

Amount: 0

Conc: 139



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19025.D
Inj. Date and Time: 19-FEB-2013 20:52
Instrument ID: BSMC5973.i
Client ID: CV0748YY-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/20/2013

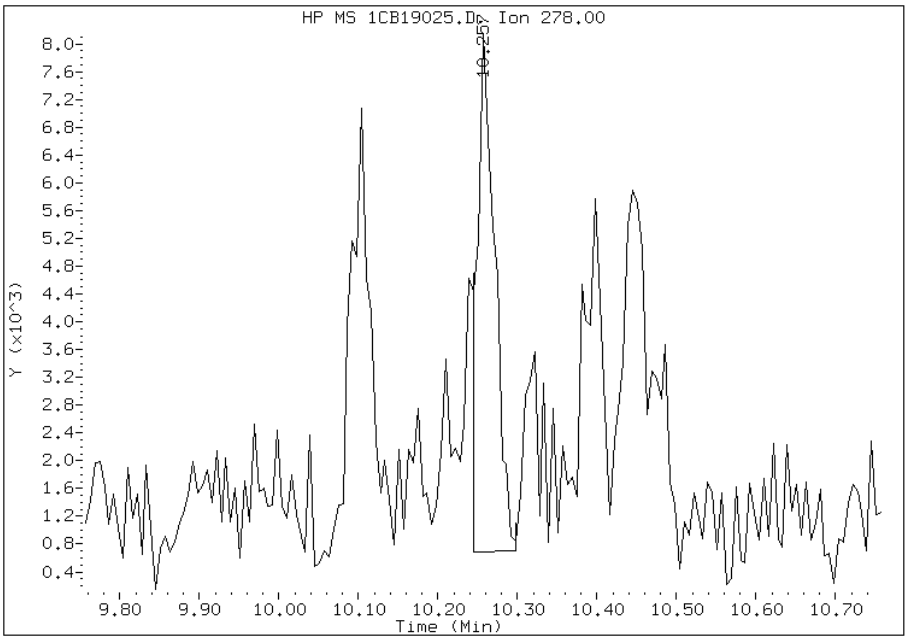
Processing Integration Results

RT: 10.26

Response: 11734

Amount: 0

Conc: 63



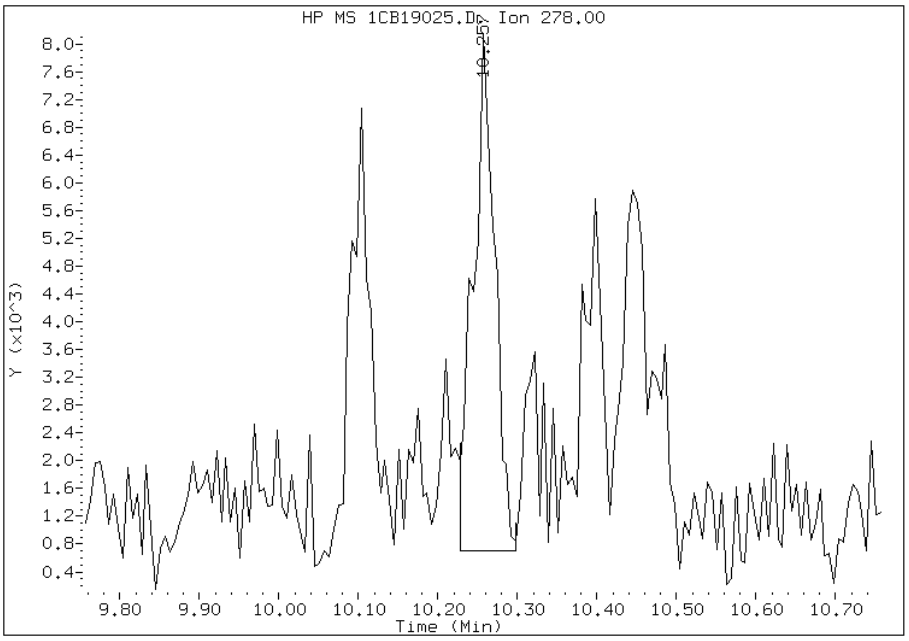
Manual Integration Results

RT: 10.26

Response: 14200

Amount: 0

Conc: 76



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19025.D
Inj. Date and Time: 19-FEB-2013 20:52
Instrument ID: BSMC5973.i
Client ID: CV0748YY-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

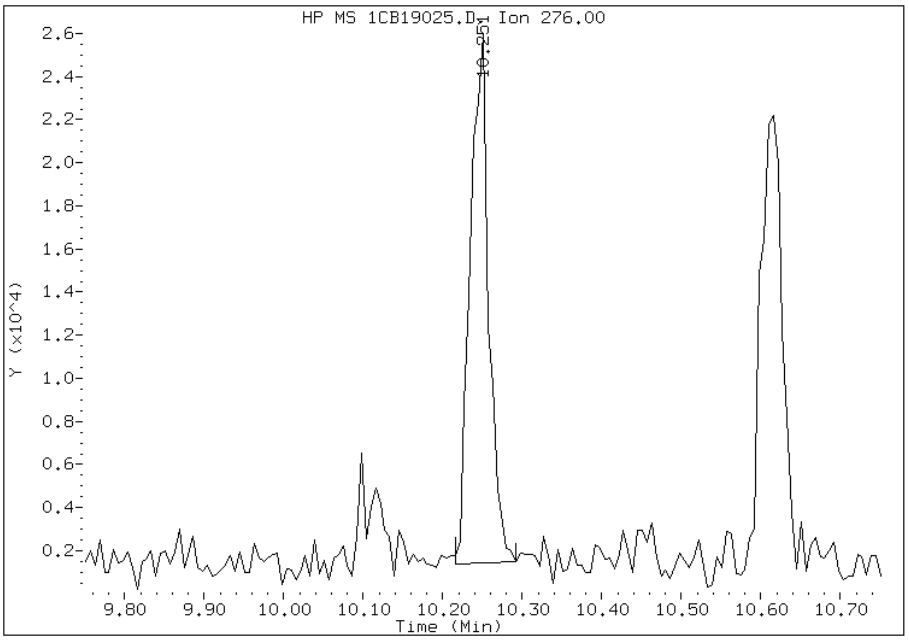
Processing Integration Results

RT: 10.25

Response: 39686

Amount: 1

Conc: 200



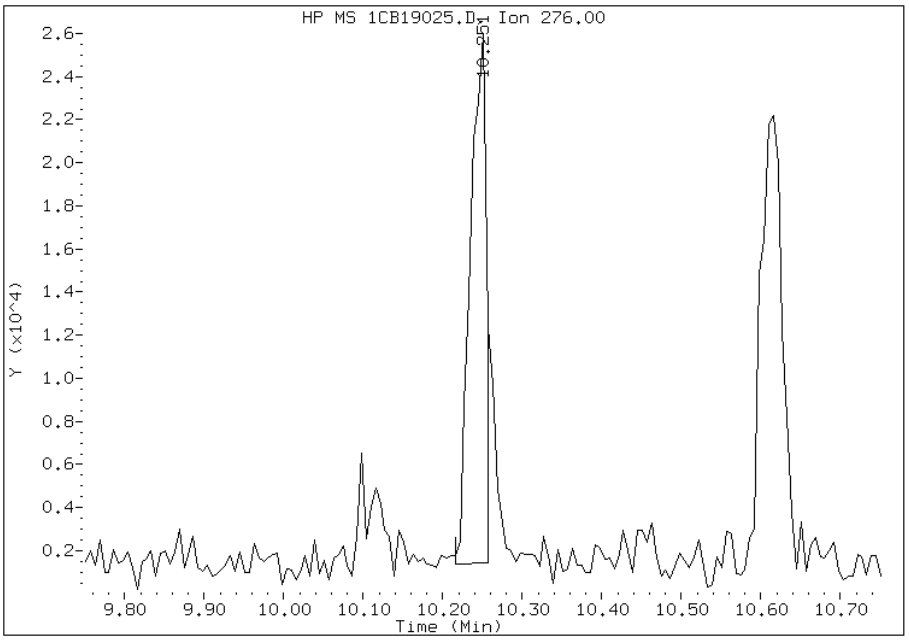
Manual Integration Results

RT: 10.25

Response: 34511

Amount: 1

Conc: 174



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748ZZ-CS | Lab Sample ID: 680-87320-30

Matrix: Solid | Lab File ID: 1CB19026.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 14:28

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 15.27(g) | Date Analyzed: 02/19/2013 21:10

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

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

% Moisture: 4.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	410	U	410	82
208-96-8	Acenaphthylene	69	J	160	20
120-12-7	Anthracene	120		34	17
56-55-3	Benzo[a]anthracene	570		33	16
50-32-8	Benzo[a]pyrene	550		43	21
205-99-2	Benzo[b]fluoranthene	930		50	25
191-24-2	Benzo[g,h,i]perylene	370		82	18
207-08-9	Benzo[k]fluoranthene	240		33	15
218-01-9	Chrysene	610		37	18
53-70-3	Dibenz(a,h)anthracene	120		82	17
206-44-0	Fluoranthene	970		82	16
86-73-7	Fluorene	38	J	82	17
193-39-5	Indeno[1,2,3-cd]pyrene	240		82	29
90-12-0	1-Methylnaphthalene	130	J	160	18
91-57-6	2-Methylnaphthalene	140	J	160	29
91-20-3	Naphthalene	120	J	160	18
85-01-8	Phenanthrene	550		33	16
129-00-0	Pyrene	910		82	15

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19026.D
Lab Smp Id: 680-87320-A-30-A Client Smp ID: CV0748ZZ-CS
Inj Date : 19-FEB-2013 21:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-30-a
Misc Info : 680-87320-A-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 26
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	15.270	Weight Extracted
M	4.124	% 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	3.815	3.816	(1.000)	2270778	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1736184	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	3023582	40.0000	
$ 14 o-Terphenyl	230	6.109	6.110	(1.043)	116819	2.63686	720.4372
* 18 Chrysene-d12	240	7.803	7.809	(1.000)	2968198	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2793304	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	25538	0.42441	115.9571
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	19945	0.50977	139.2776
4 1-Methylnaphthalene	142	4.315	4.316	(1.131)	17052	0.47920	130.9262
5 Acenaphthylene	152	4.815	4.816	(0.982)	17557	0.25418	69.4470
9 Fluorene	166	5.245	5.245	(1.070)	7836	0.14091	38.4993(Q)
11 Phenanthrene	178	5.874	5.874	(1.003)	180596	2.00102	546.7157
12 Anthracene	178	5.904	5.910	(1.008)	36618	0.45033	123.0377
13 Carbazole	167	6.015	6.015	(1.027)	20951	0.29663	81.0435

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	314538	3.56665	974.4741
16 Pyrene	202	6.880	6.886	(0.882)	263958	3.34037	912.6491
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	172104	2.10262	574.4742
19 Chrysene	228	7.827	7.827	(1.003)	190101	2.24841	614.3077
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	233760	3.41342	932.6078(M)
21 Benzo(k)fluoranthene	252	8.680	8.686	(0.962)	65188	0.86404	236.0725(QM)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	130737	2.00624	548.1418
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.251	(1.134)	53888	0.86097	235.2332(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.268	(1.136)	26777	0.45367	123.9506
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.176)	86993	1.36827	373.8373

QC Flag Legend

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

Data File: 1CB19026.D

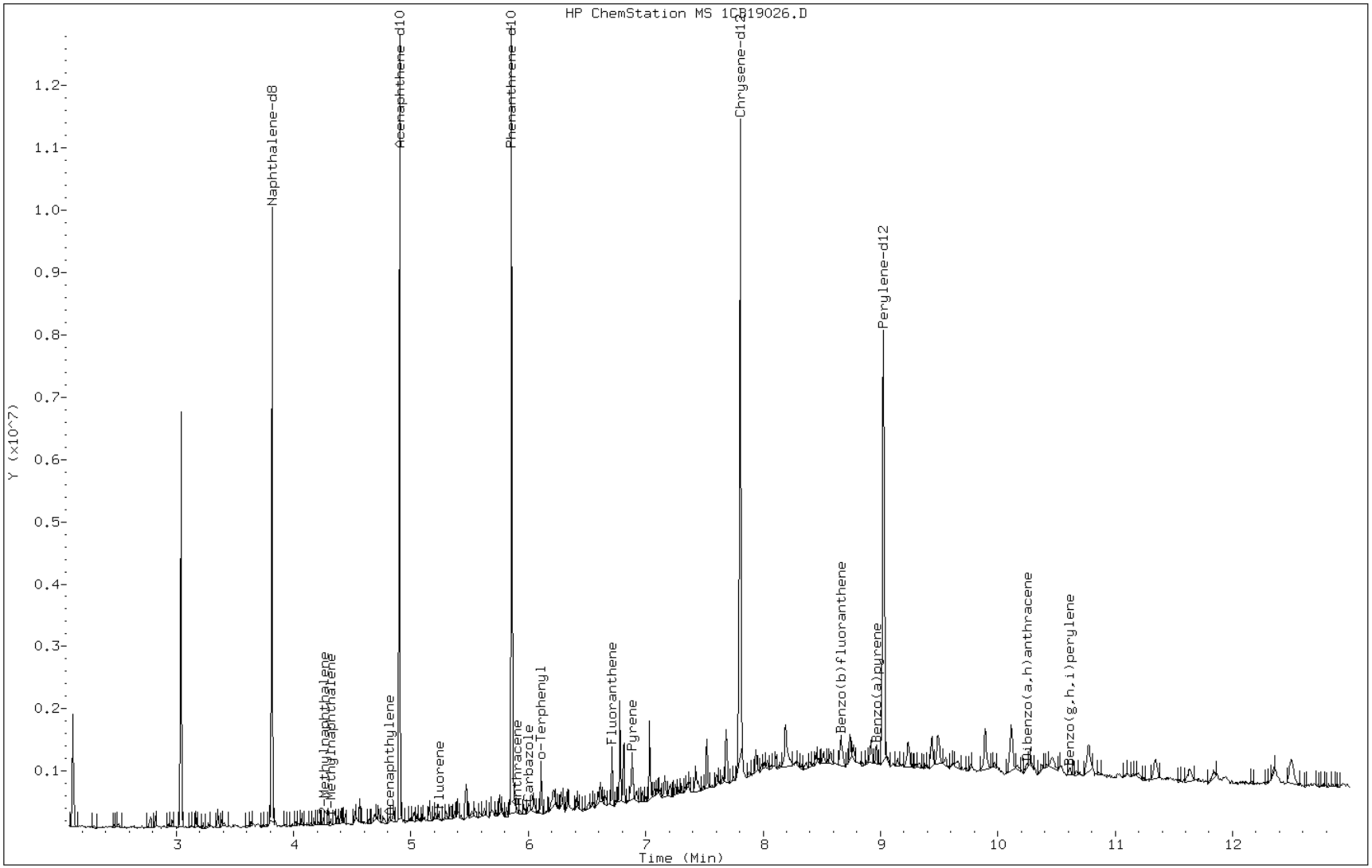
Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a

Operator: SCC



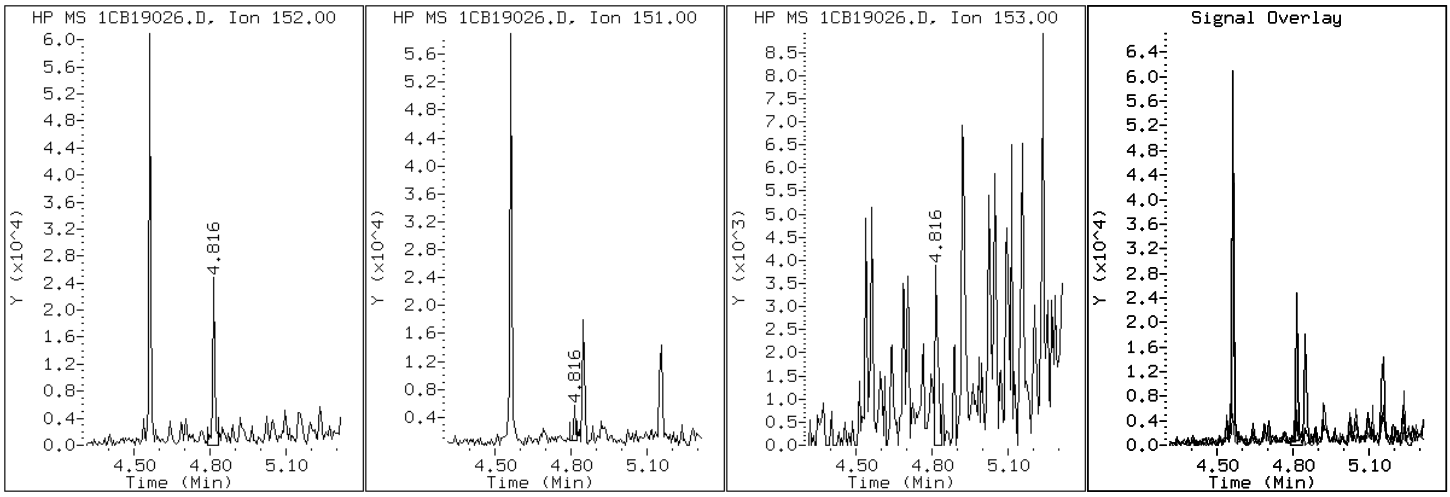
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

5 Acenaphthylene



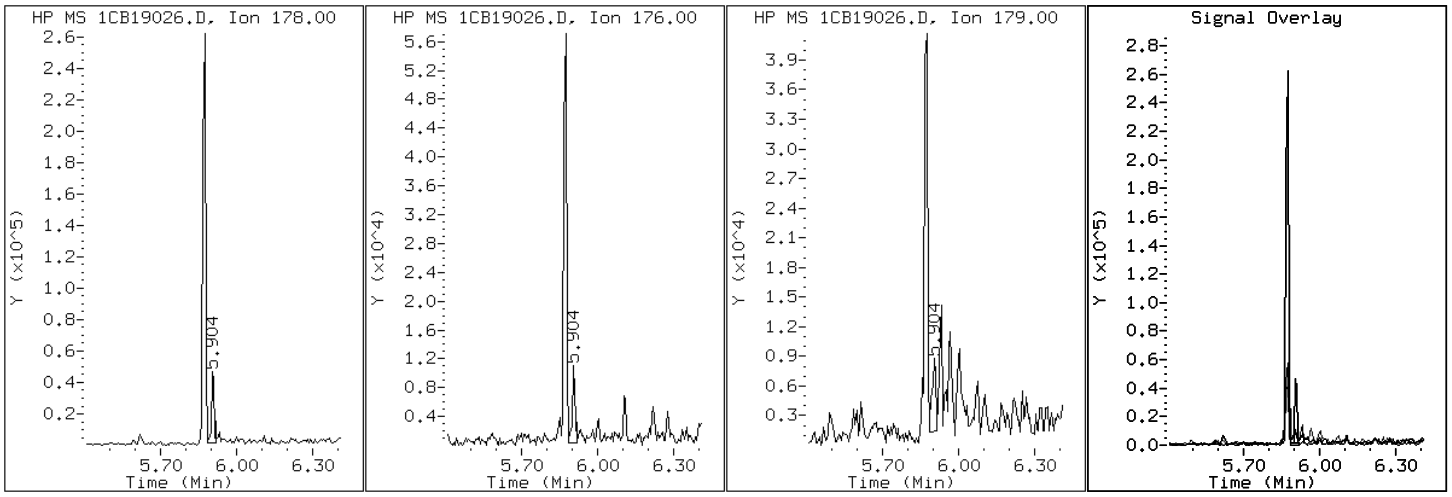
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

12 Anthracene



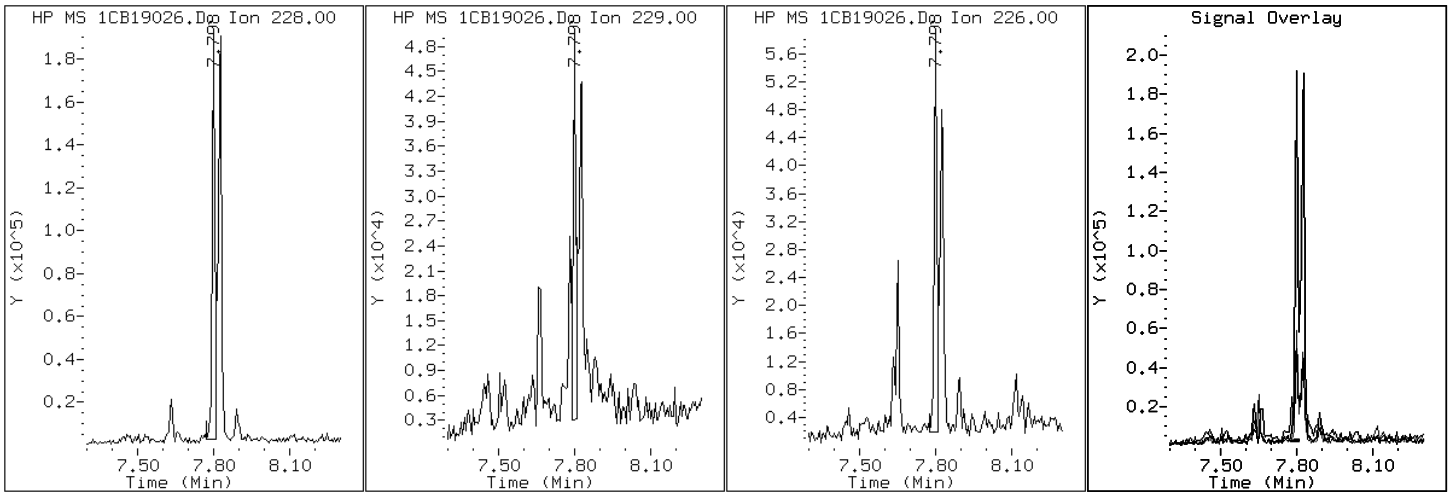
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

17 Benzo(a)anthracene



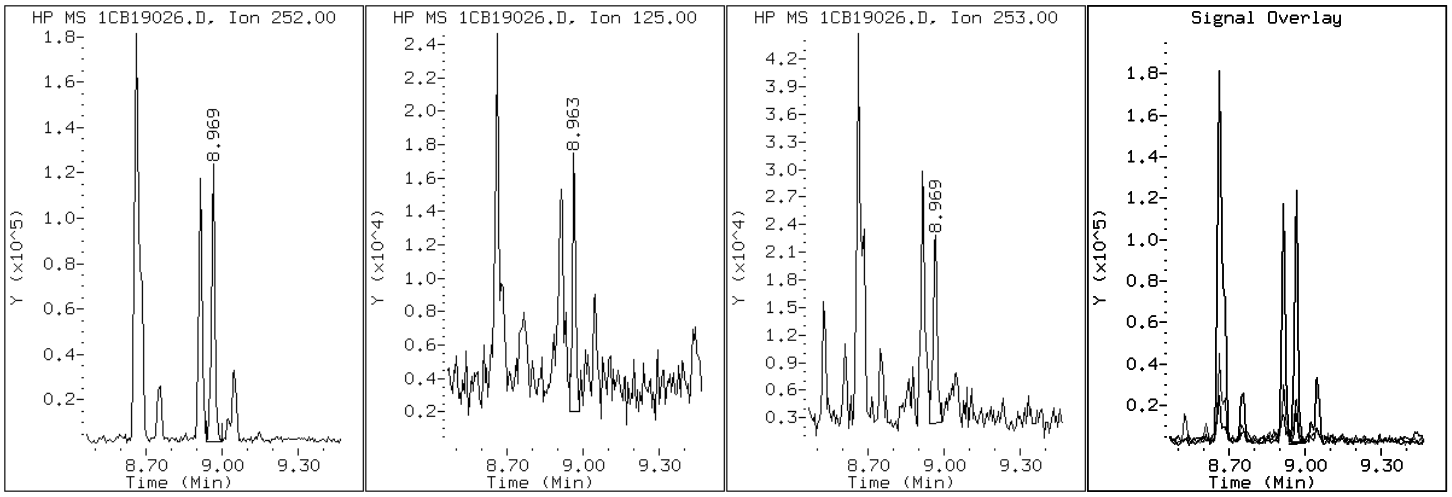
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

22 Benzo(a)pyrene



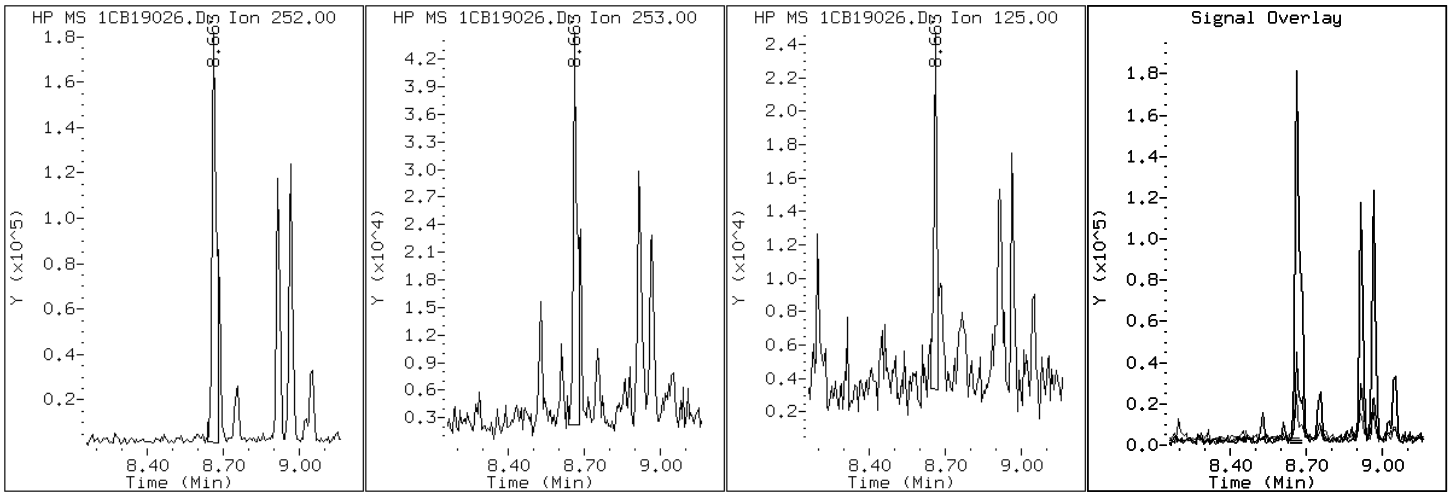
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

20 Benzo(b)fluoranthene



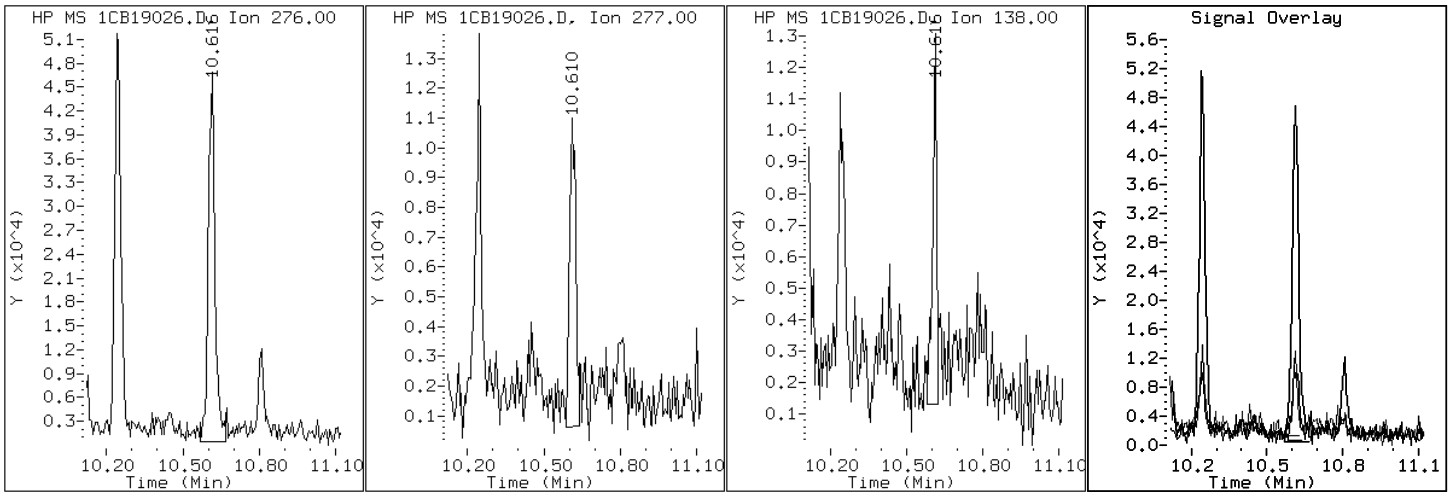
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

26 Benzo(g,h,i)perylene



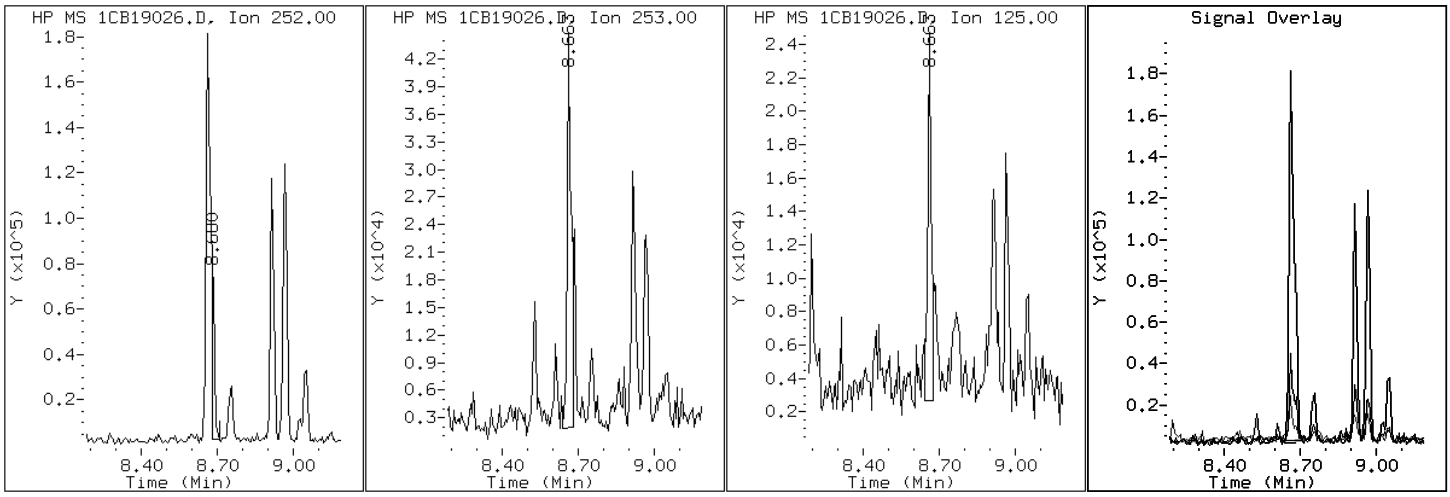
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

21 Benzo(k)fluoranthene



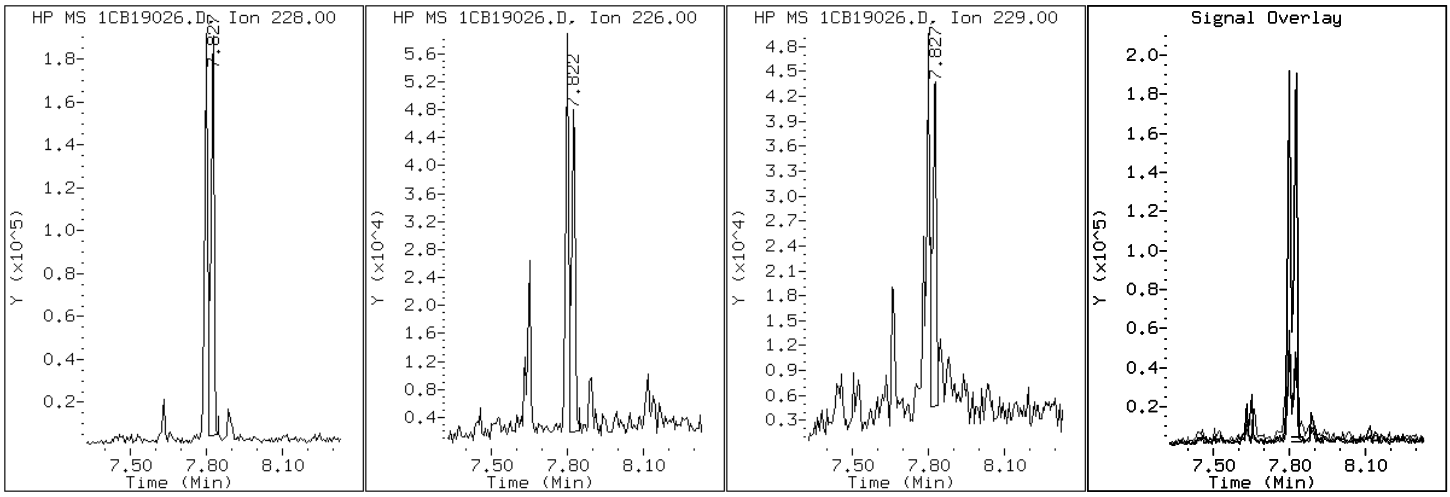
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

19 Chrysene



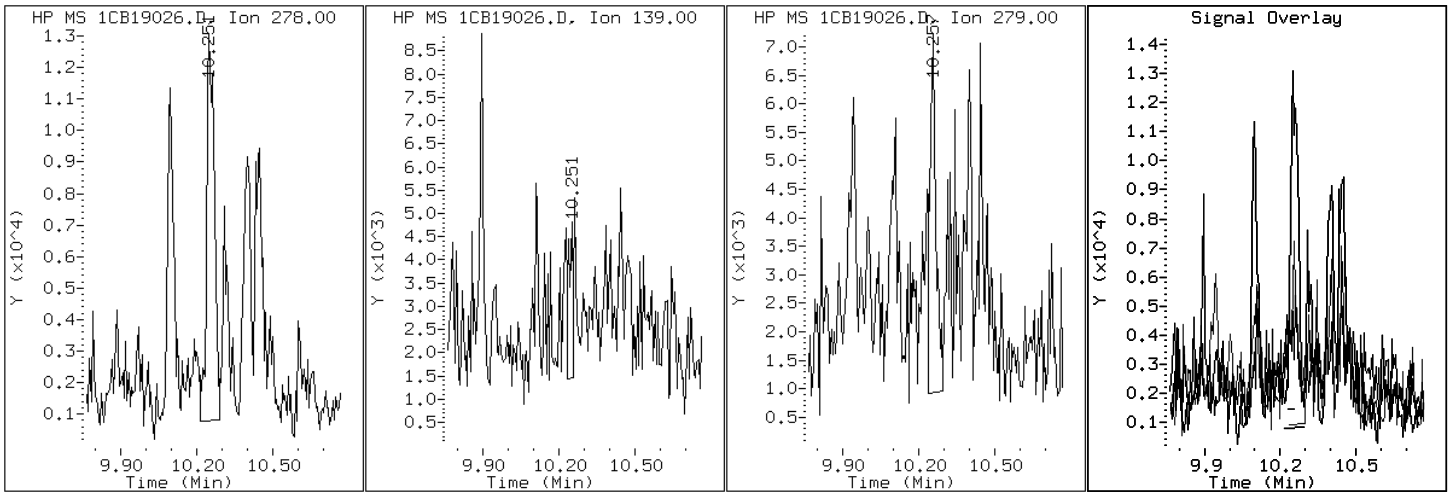
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

25 Dibenzo(a,h)anthracene



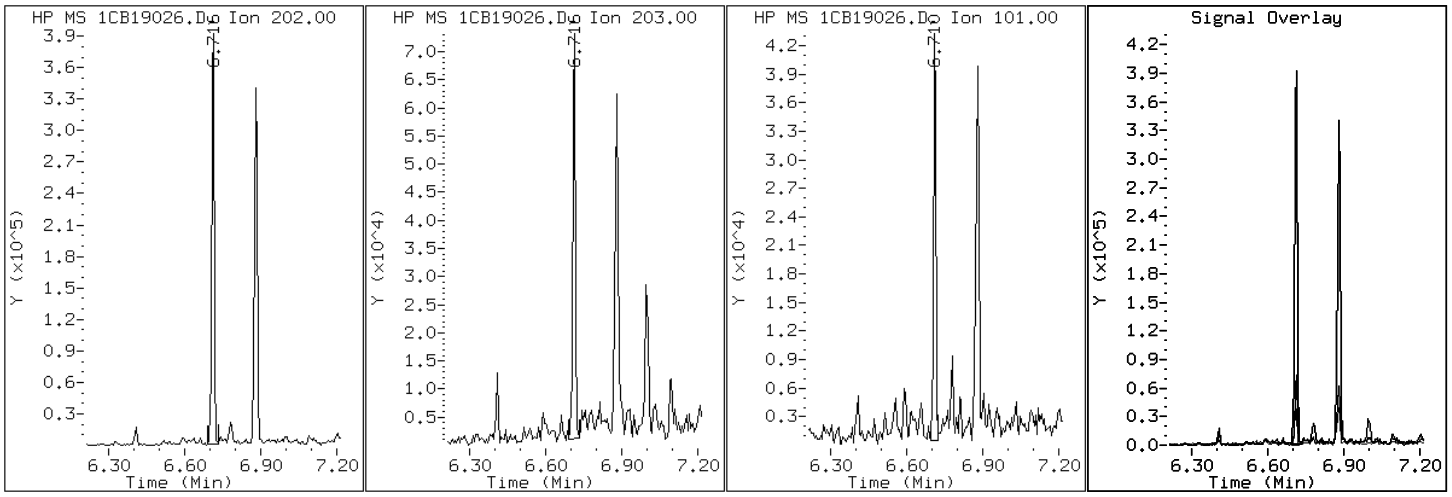
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

15 Fluoranthene



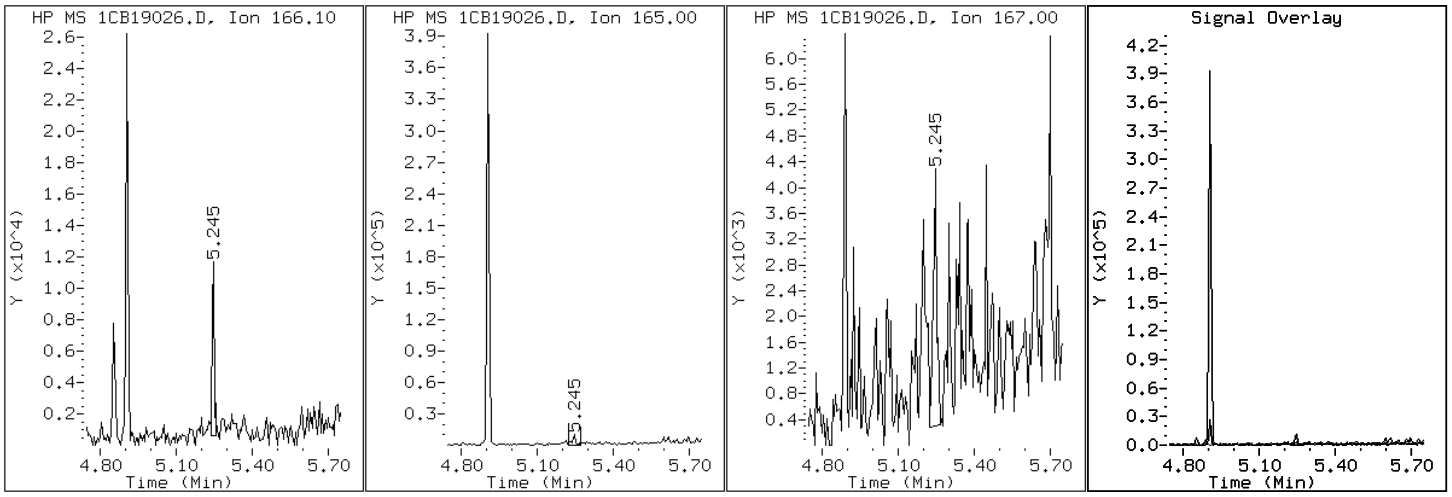
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

9 Fluorene



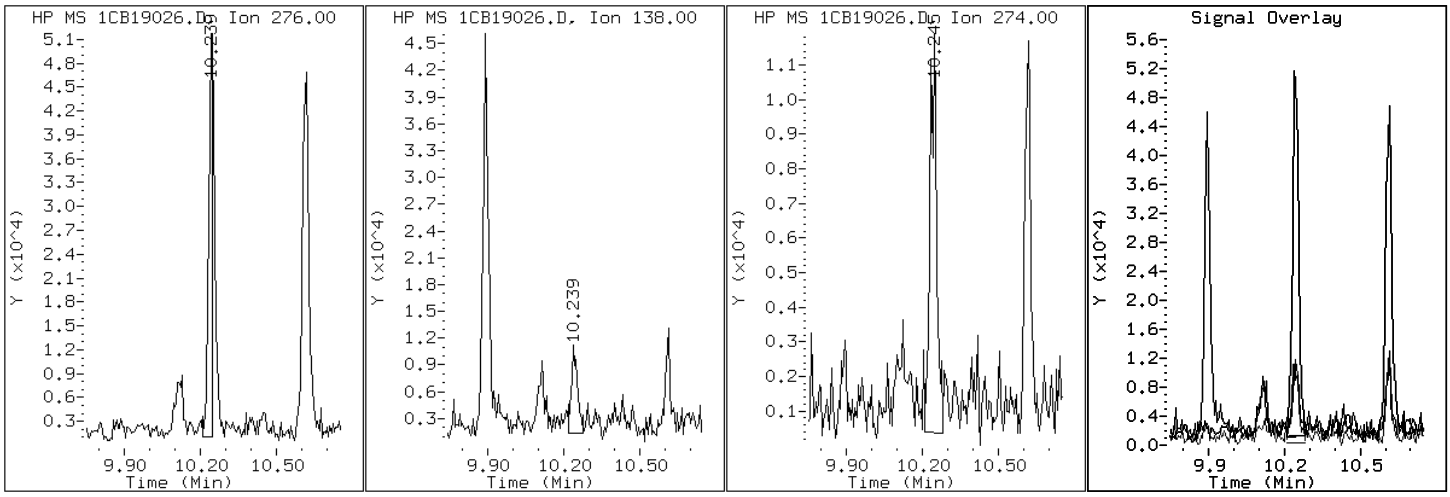
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

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



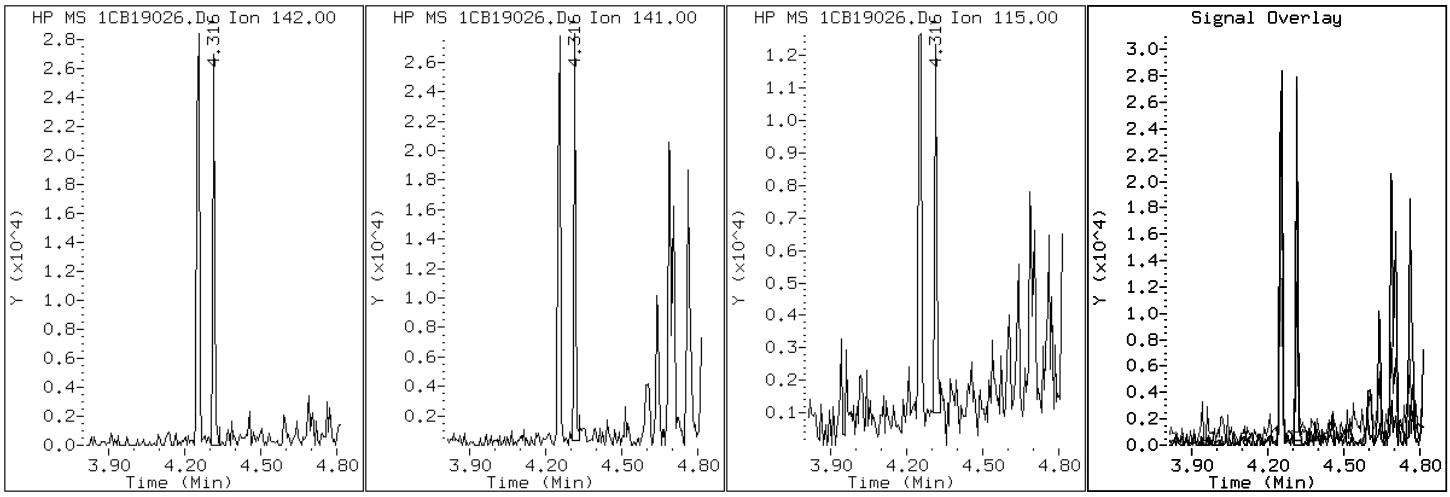
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

4 1-Methylnaphthalene



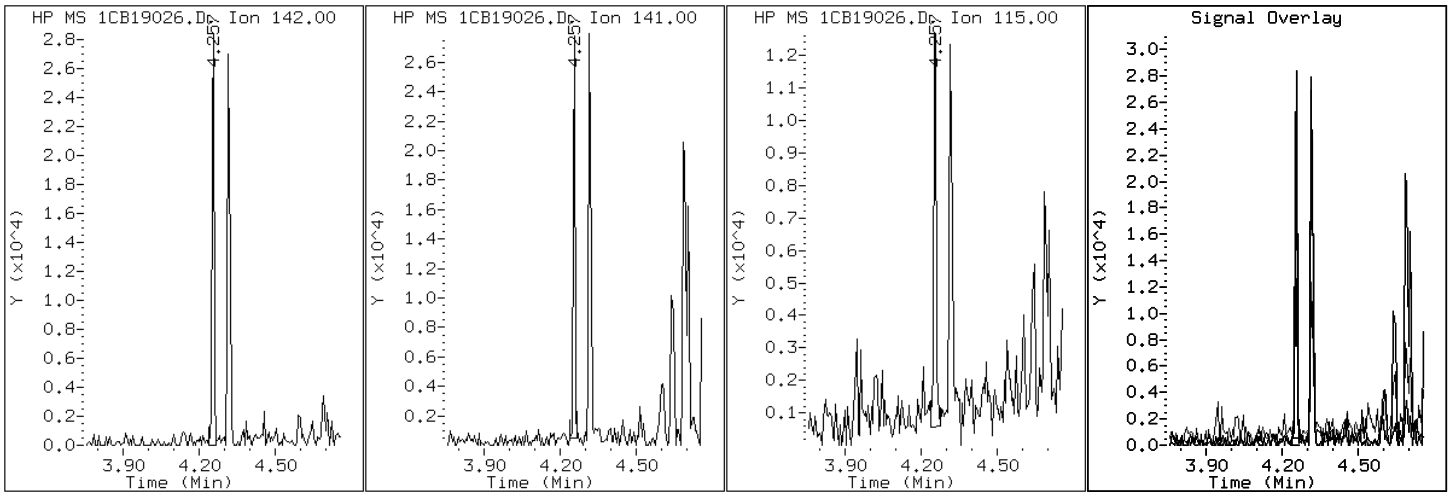
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

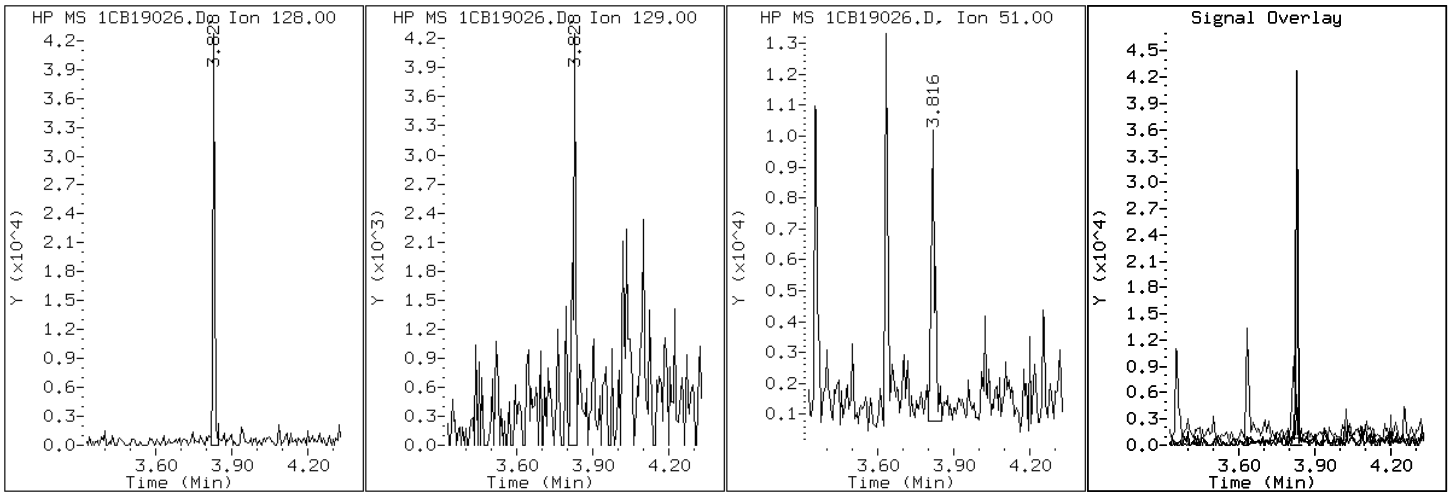
Client ID: CV0748ZZ-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a

Operator: SCC

2 Naphthalene



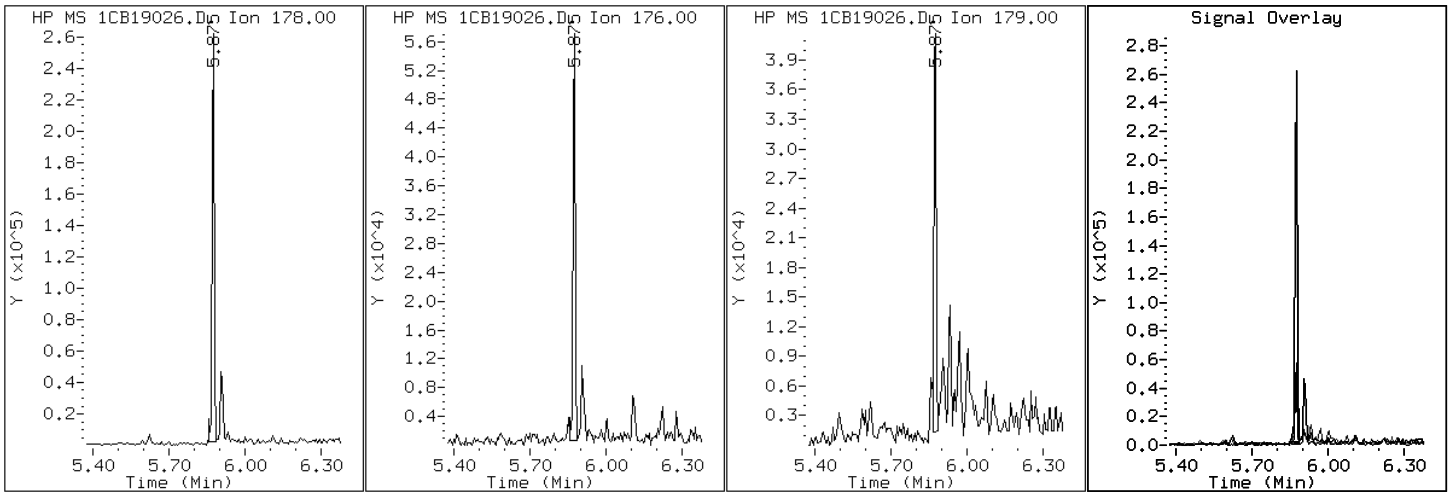
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

11 Phenanthrene



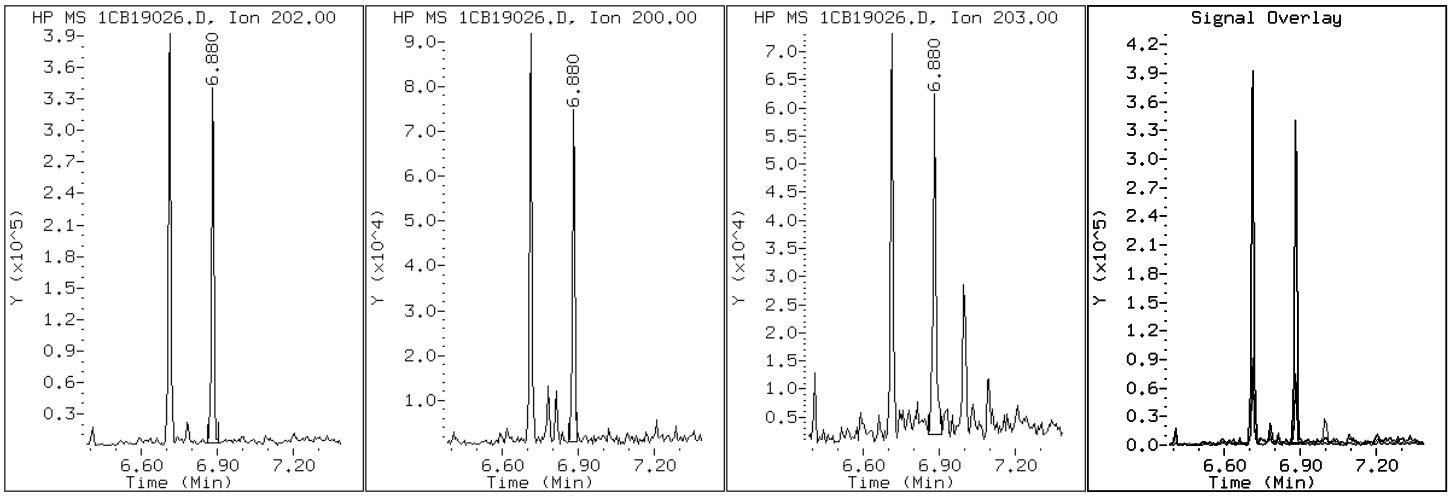
Data File: 1CB19026.D

Date: 19-FEB-2013 21:10

Client ID: CV0748ZZ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-30-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19026.D
Inj. Date and Time: 19-FEB-2013 21:10
Instrument ID: BSMC5973.i
Client ID: CV0748ZZ-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

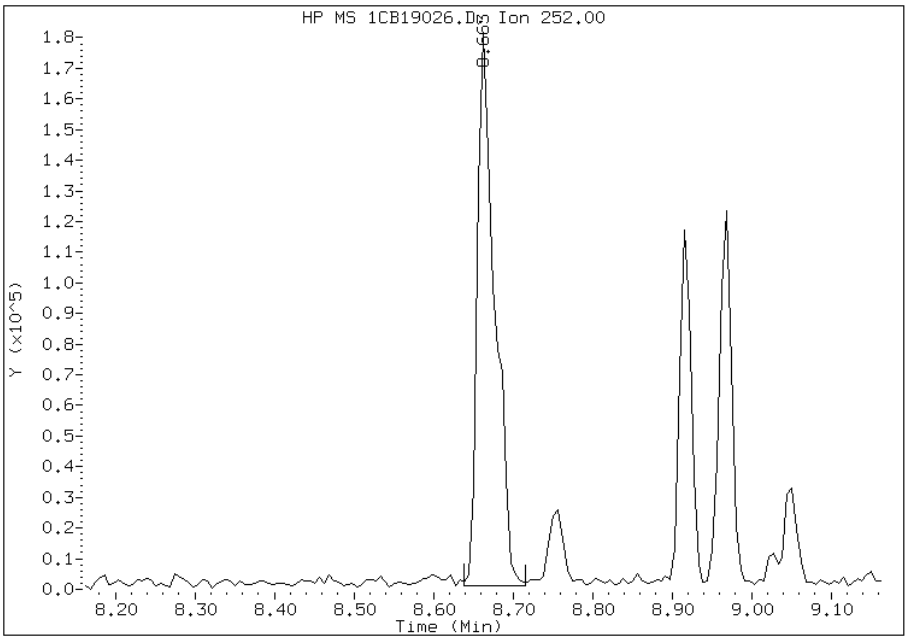
Processing Integration Results

RT: 8.66

Response: 274921

Amount: 4

Conc: 1097



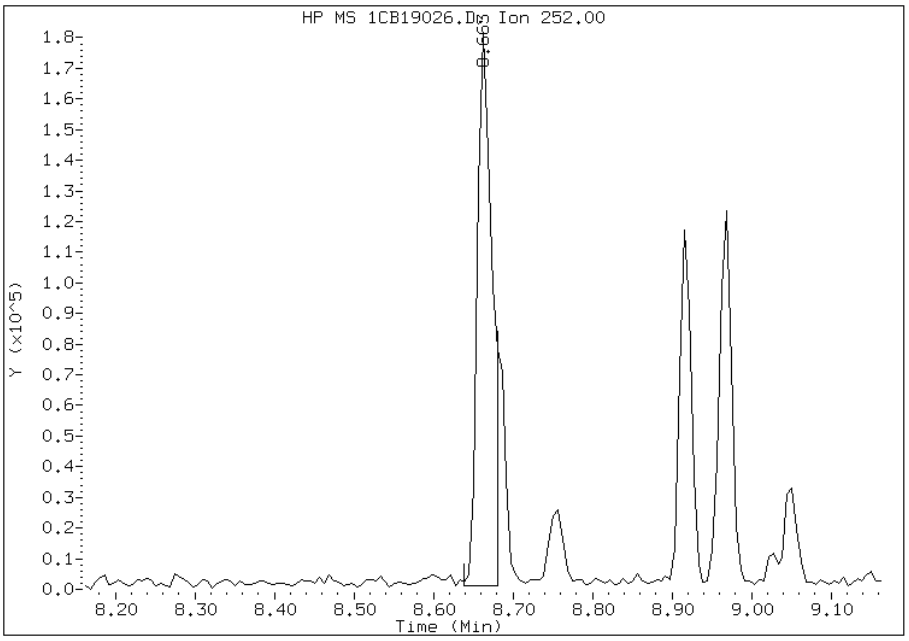
Manual Integration Results

RT: 8.66

Response: 233760

Amount: 3

Conc: 933



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19026.D
Inj. Date and Time: 19-FEB-2013 21:10
Instrument ID: BSMC5973.i
Client ID: CV0748ZZ-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

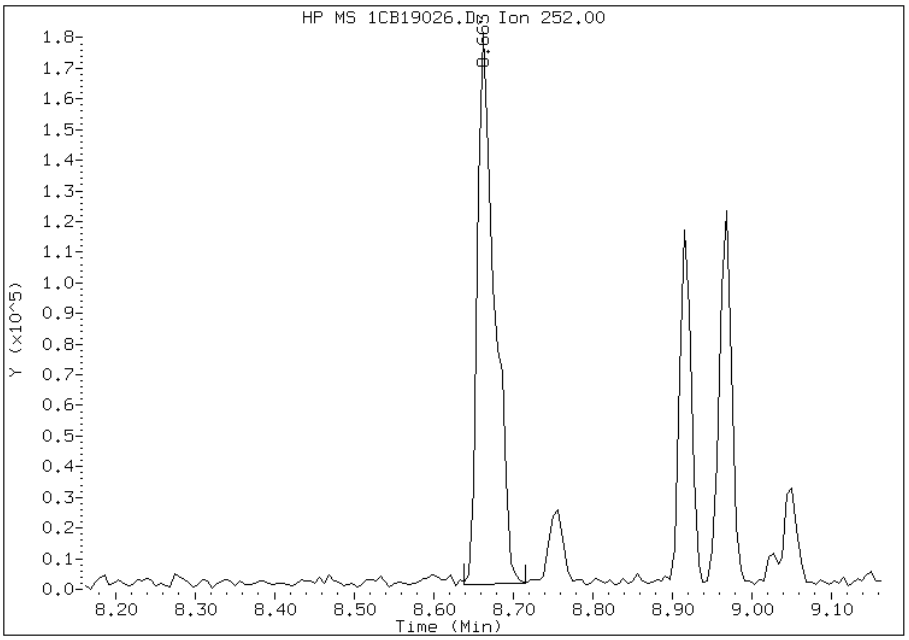
Processing Integration Results

RT: 8.66

Response: 272819

Amount: 4

Conc: 988



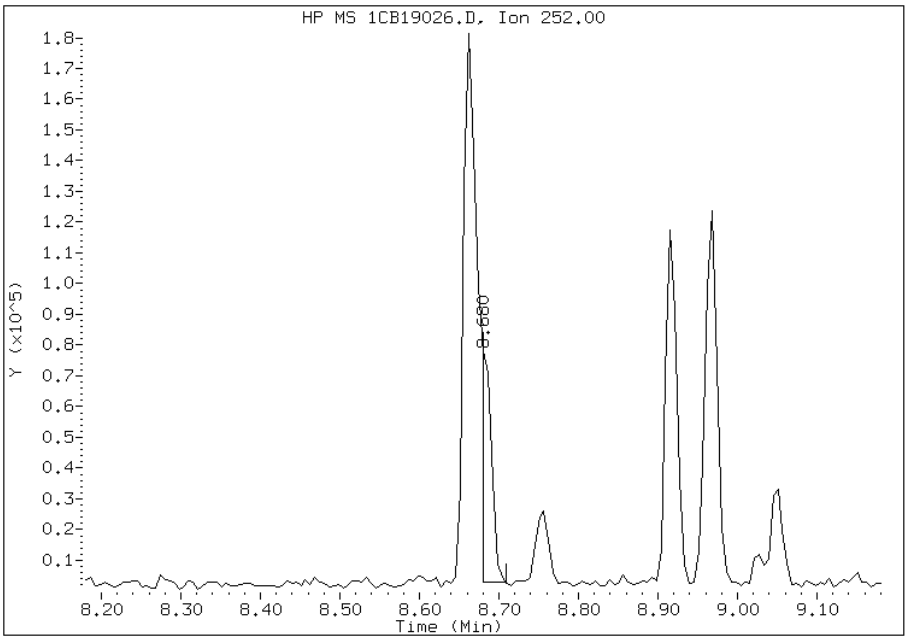
Manual Integration Results

RT: 8.68

Response: 65188

Amount: 1

Conc: 236



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19026.D
Inj. Date and Time: 19-FEB-2013 21:10
Instrument ID: BSMC5973.i
Client ID: CV0748ZZ-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

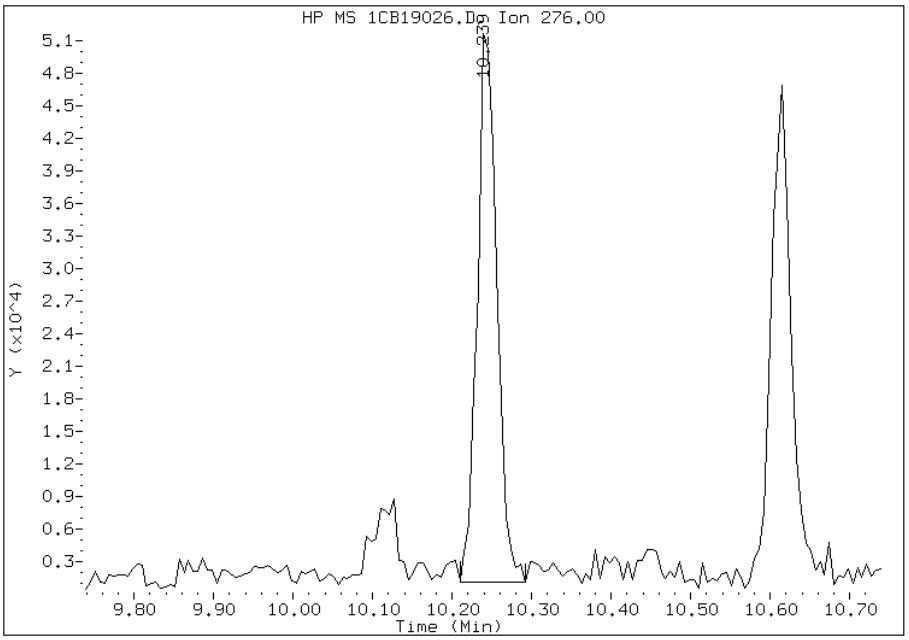
Processing Integration Results

RT: 10.24

Response: 86178

Amount: 1

Conc: 376



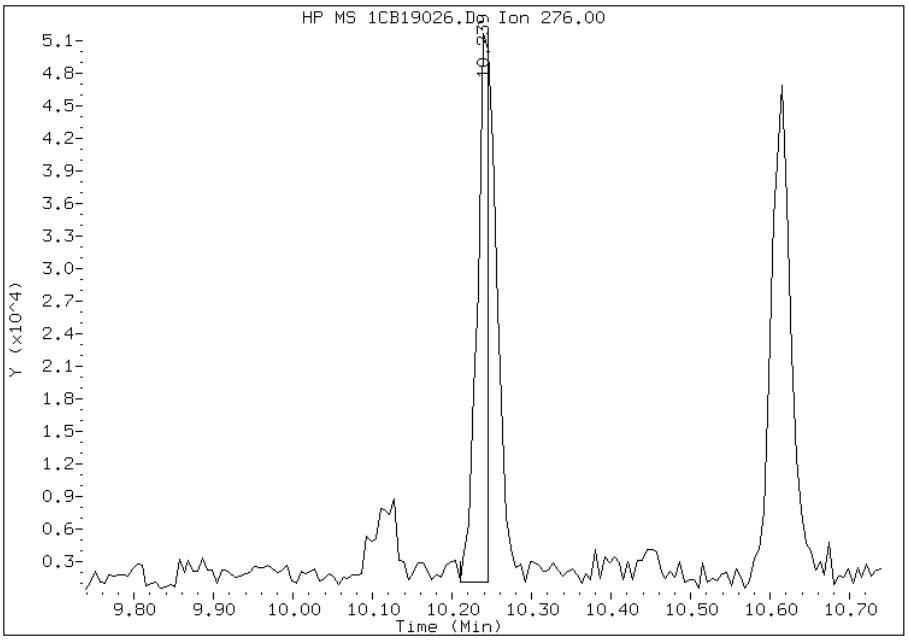
Manual Integration Results

RT: 10.24

Response: 53888

Amount: 1

Conc: 235



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748BBB-CS | Lab Sample ID: 680-87320-31

Matrix: Solid | Lab File ID: 1CB19027.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 14:47

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 15.07(g) | Date Analyzed: 02/19/2013 21:28

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

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

% Moisture: 6.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430	U	430	85
208-96-8	Acenaphthylene	48	J	170	21
120-12-7	Anthracene	54		36	18
56-55-3	Benzo[a]anthracene	320		34	17
50-32-8	Benzo[a]pyrene	320		44	22
205-99-2	Benzo[b]fluoranthene	620		52	26
191-24-2	Benzo[g,h,i]perylene	260		85	19
207-08-9	Benzo[k]fluoranthene	170		34	15
218-01-9	Chrysene	410		38	19
53-70-3	Dibenz(a,h)anthracene	79	J	85	18
206-44-0	Fluoranthene	520		85	17
86-73-7	Fluorene	18	J	85	18
193-39-5	Indeno[1,2,3-cd]pyrene	180		85	30
90-12-0	1-Methylnaphthalene	120	J	170	19
91-57-6	2-Methylnaphthalene	130	J	170	30
91-20-3	Naphthalene	130	J	170	19
85-01-8	Phenanthrene	290		34	17
129-00-0	Pyrene	510		85	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	92		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19027.D
Lab Smp Id: 680-87320-A-31-A Client Smp ID: CV0748BBB-CS
Inj Date : 19-FEB-2013 21:28
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-31-a
Misc Info : 680-87320-A-31-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 27
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	6.828	% 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	3.816	3.816	(1.000)	2279842	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1708497	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	3065452	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	103120	2.29585	654.0414
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2966885	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2813343	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	27367	0.45300	129.0506
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	18257	0.46477	132.4034
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	14729	0.41227	117.4483
5 Acenaphthylene	152	4.816	4.816	(0.982)	11376	0.16736	47.6789
9 Fluorene	166	5.245	5.245	(1.070)	3465	0.06332	18.0383(Q)
11 Phenanthrene	178	5.874	5.874	(1.003)	92100	1.00654	286.7430
12 Anthracene	178	5.904	5.910	(1.008)	15547	0.18859	53.7242
13 Carbazole	167	6.010	6.015	(1.026)	13095	0.18287	52.0953

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	162555	1.81809	517.9373
16 Pyrene	202	6.880	6.886	(0.882)	140765	1.78216	507.7013
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	93148	1.13851	324.3379
19 Chrysene	228	7.821	7.827	(1.002)	121647	1.43941	410.0602
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	149145	2.16234	616.0068(M)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	45068	0.59311	168.9639(QM)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	74631	1.13710	323.9378
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.251	(1.135)	39181	0.62154	177.0639(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	16505	0.27764	79.0952
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	59083	0.92267	262.8505

QC Flag Legend

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

Data File: 1CB19027.D

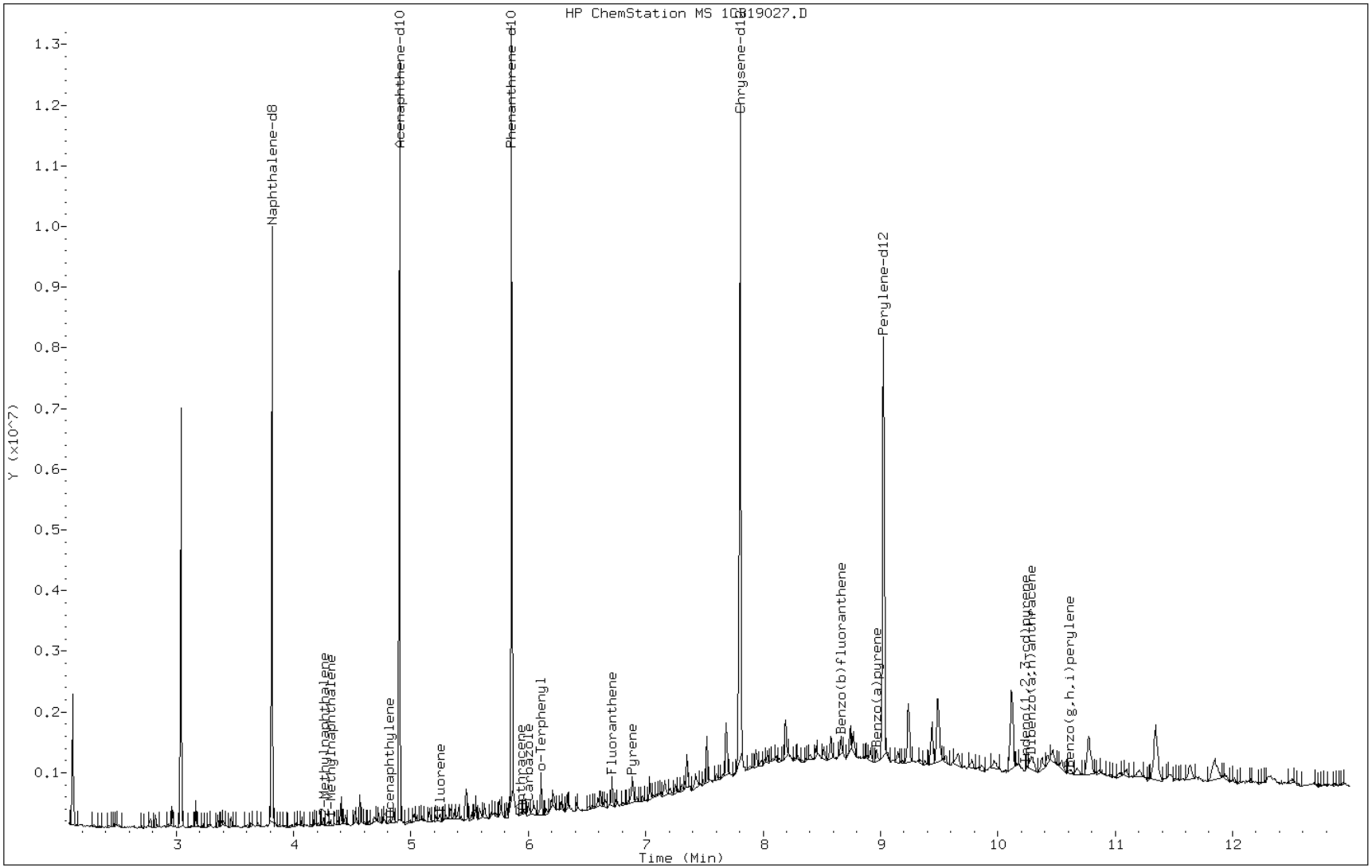
Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a

Operator: SCC



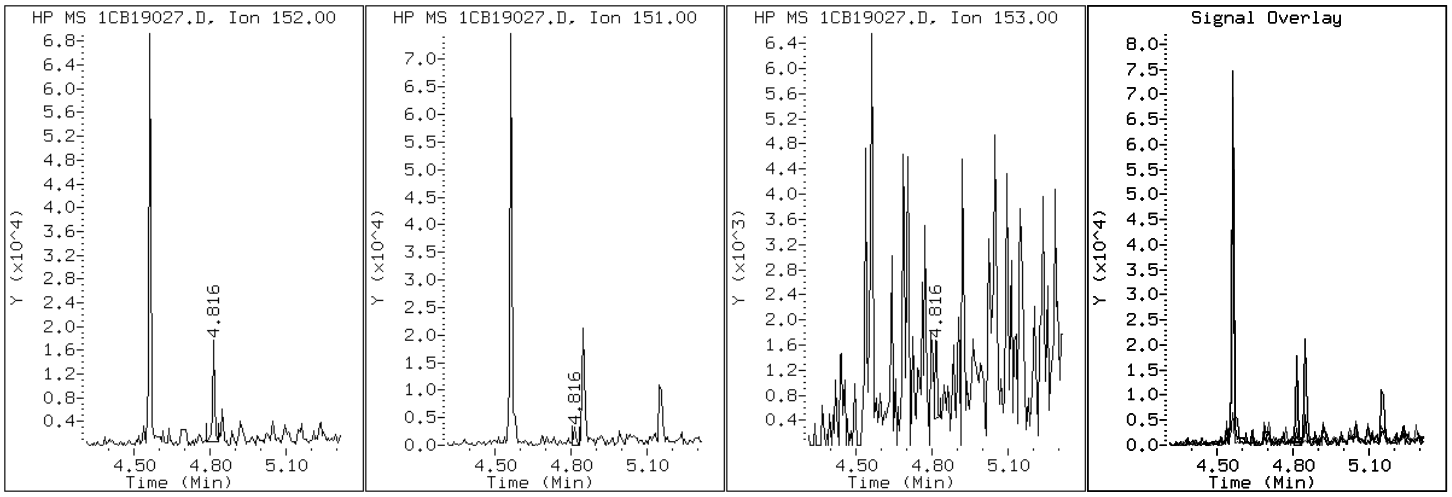
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

5 Acenaphthylene



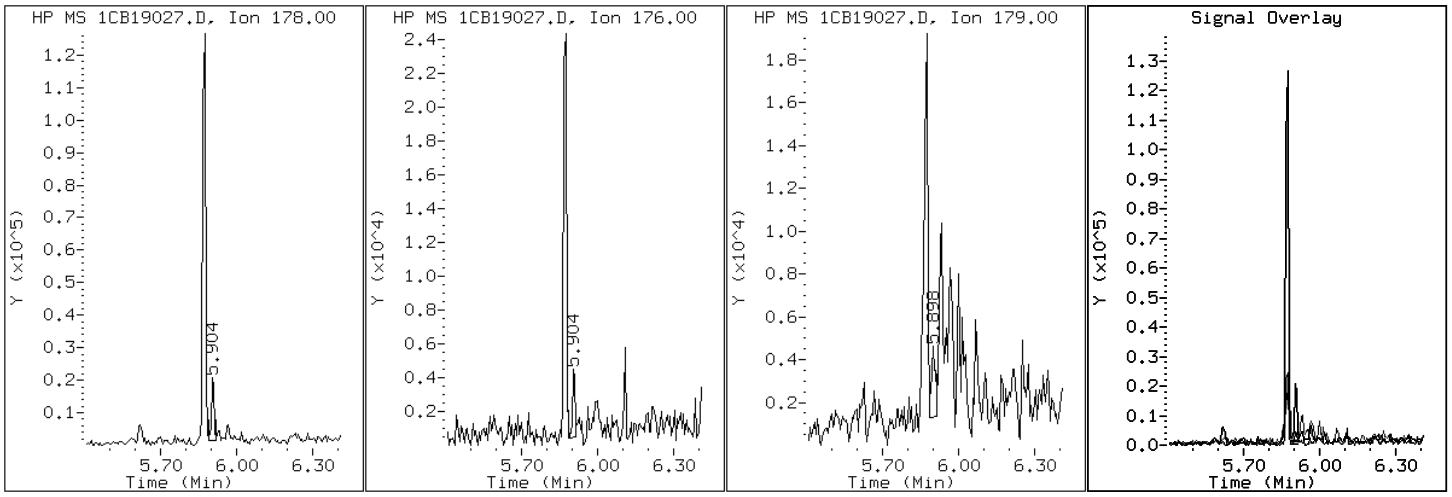
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

12 Anthracene



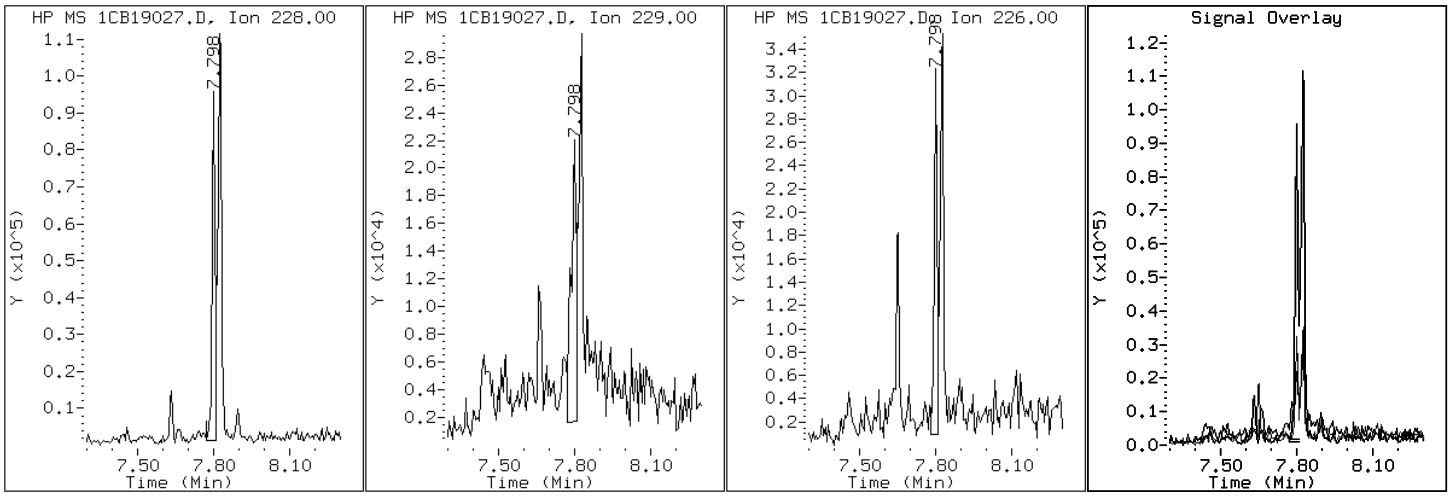
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

17 Benzo(a)anthracene



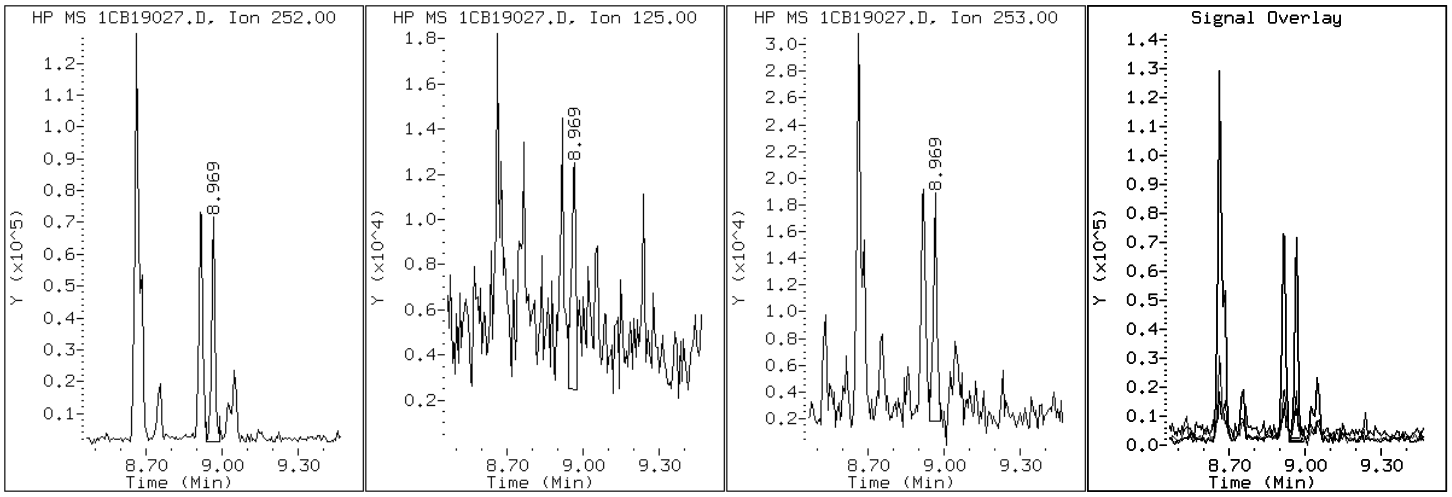
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

22 Benzo(a)pyrene



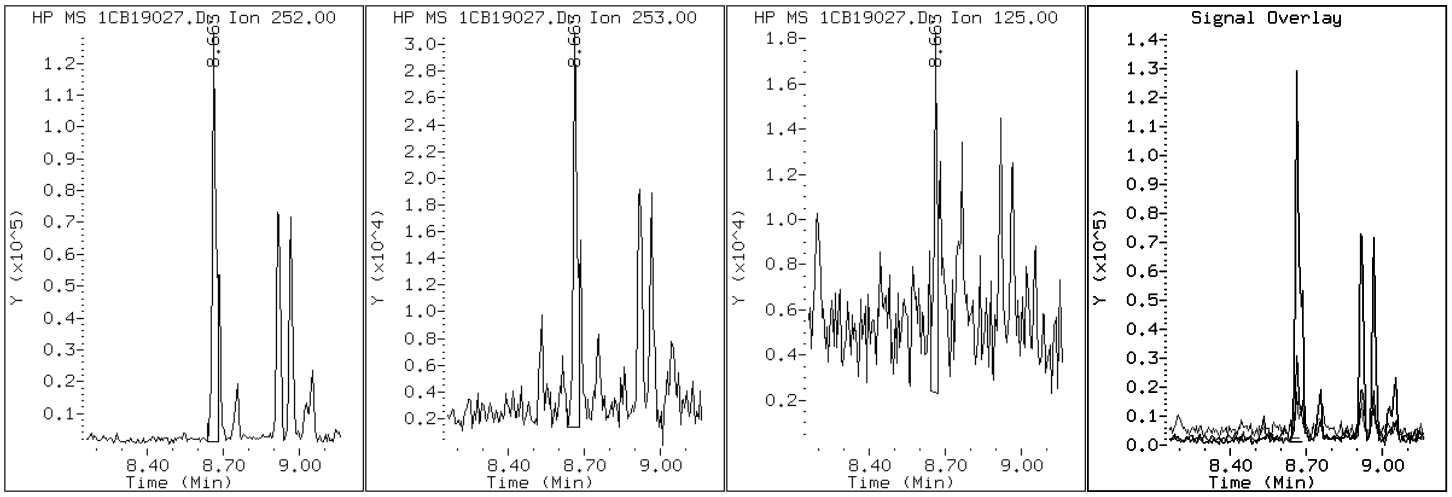
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

20 Benzo(b)fluoranthene



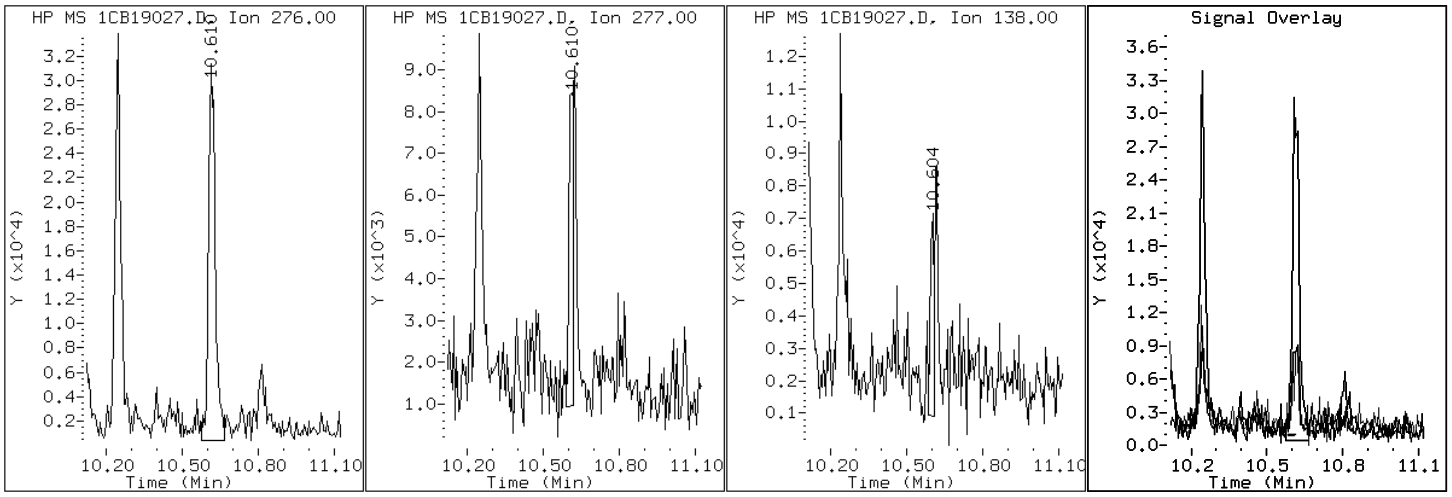
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

26 Benzo(g,h,i)perylene



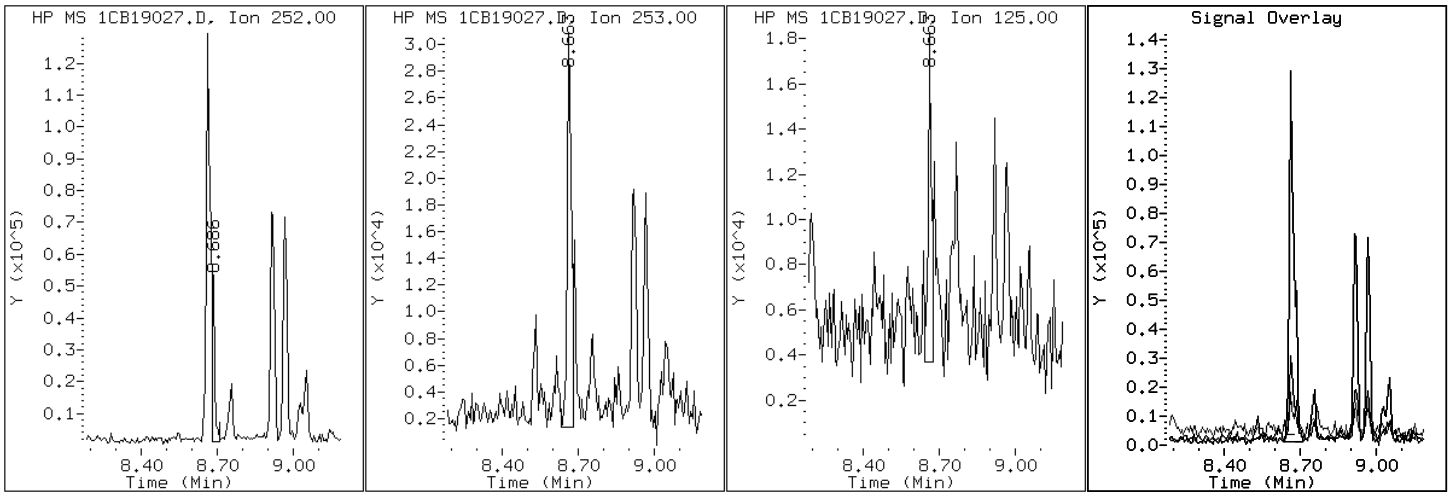
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

21 Benzo(k)fluoranthene



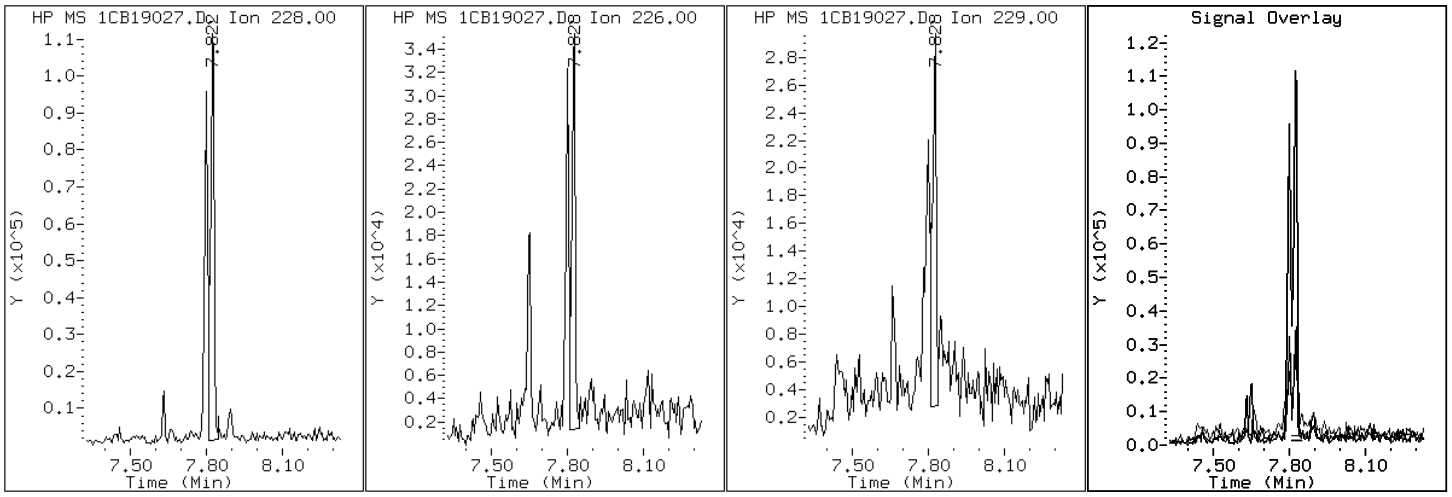
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

19 Chrysene



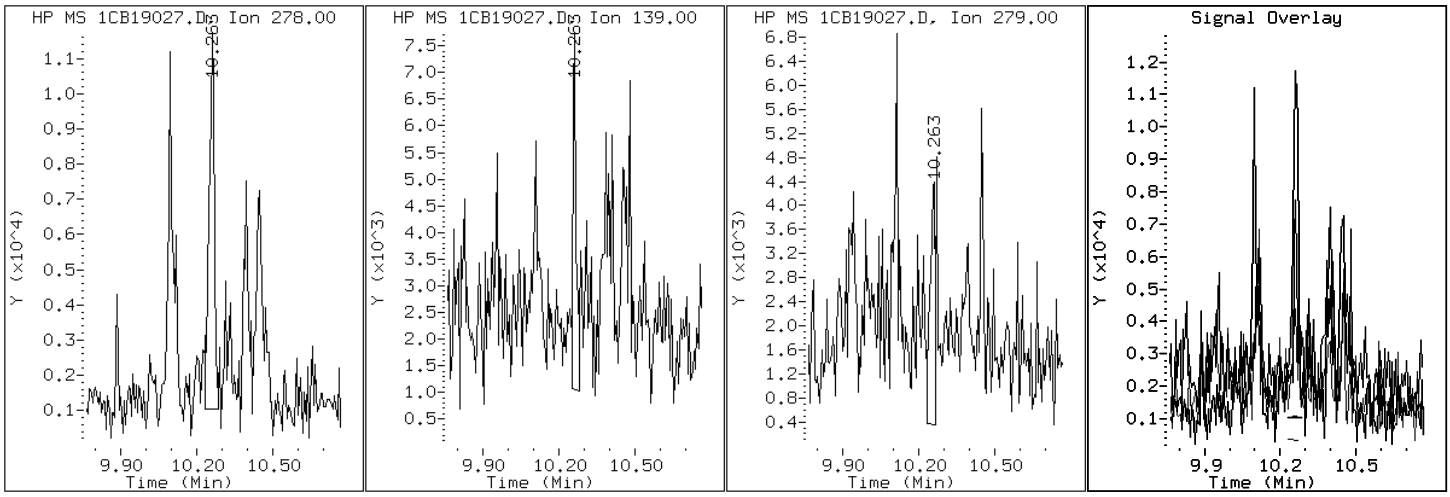
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

25 Dibenzo(a,h)anthracene



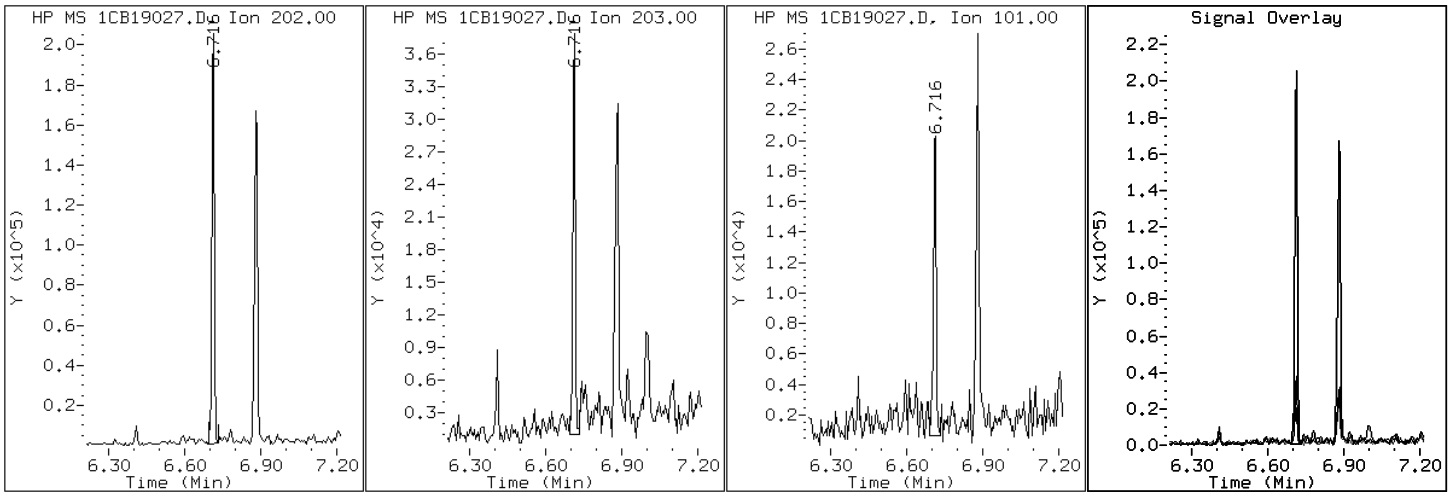
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

15 Fluoranthene



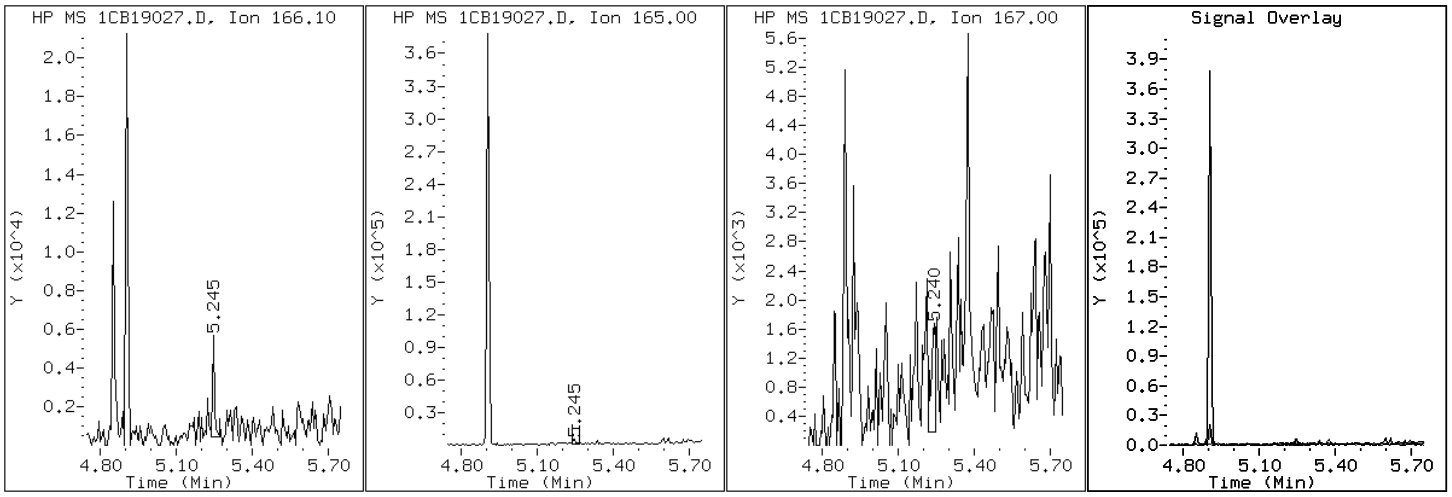
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

9 Fluorene



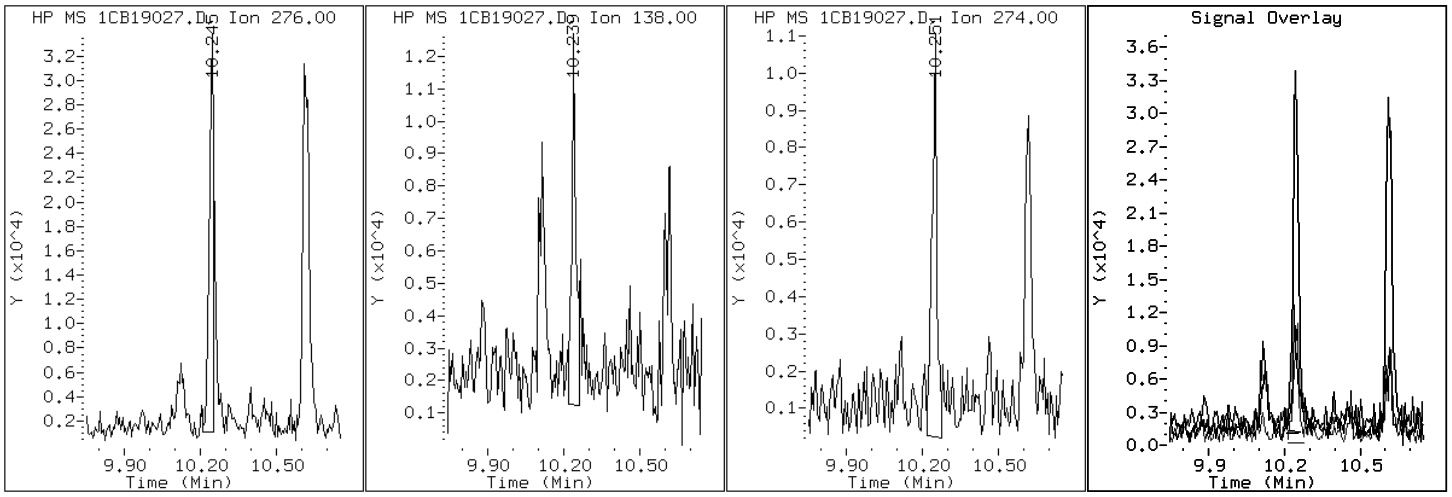
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

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



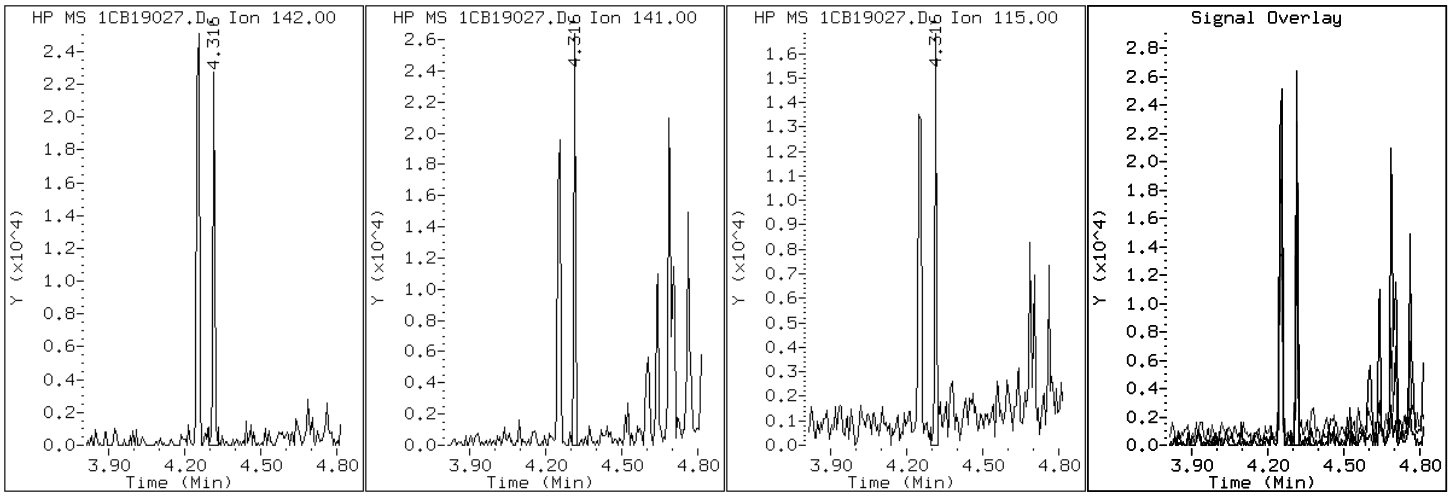
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

4 1-Methylnaphthalene



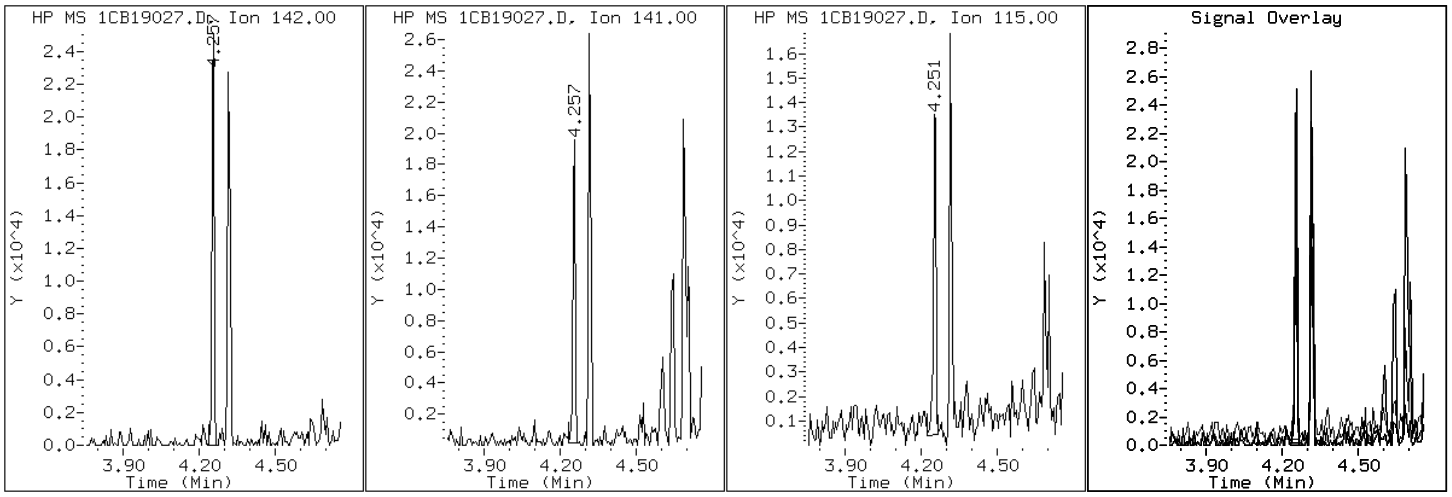
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

3 2-Methylnaphthalene



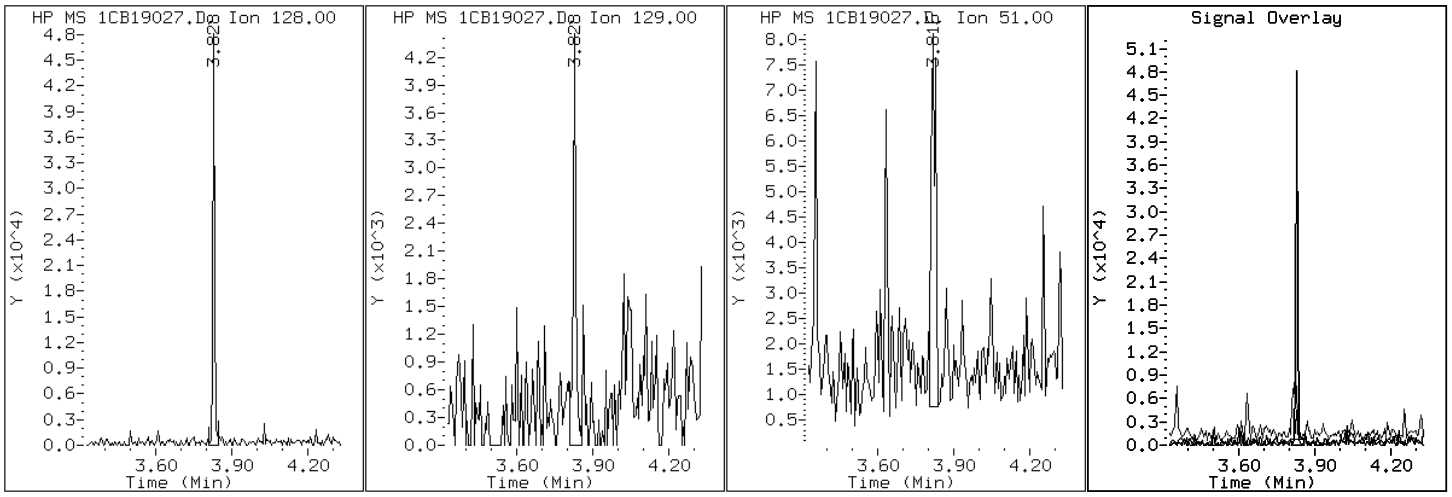
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

2 Naphthalene



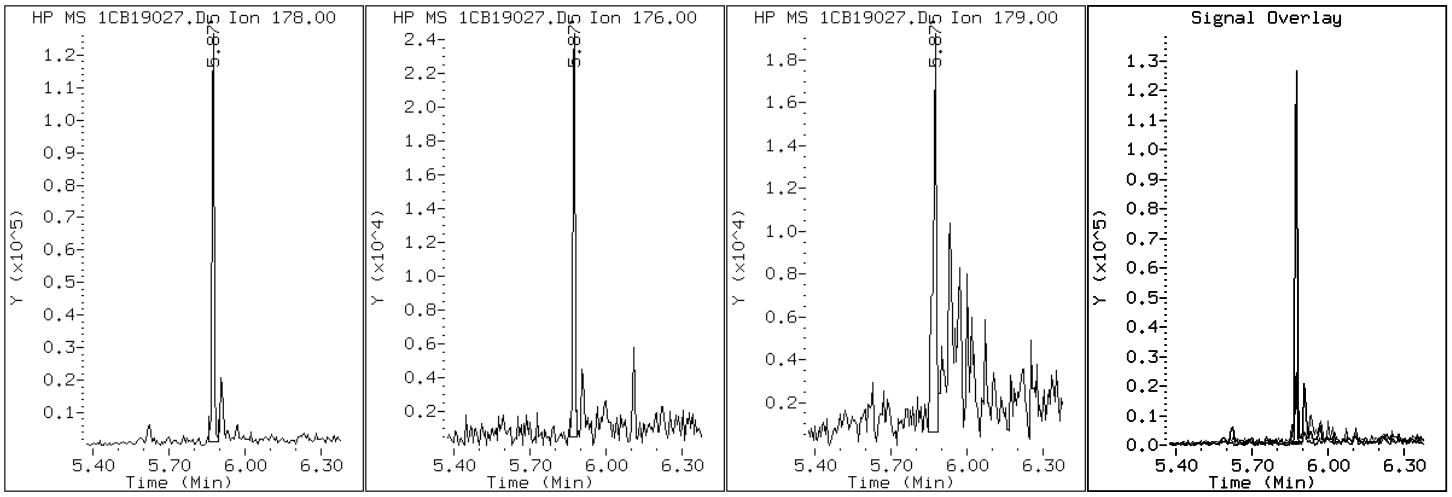
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

11 Phenanthrene



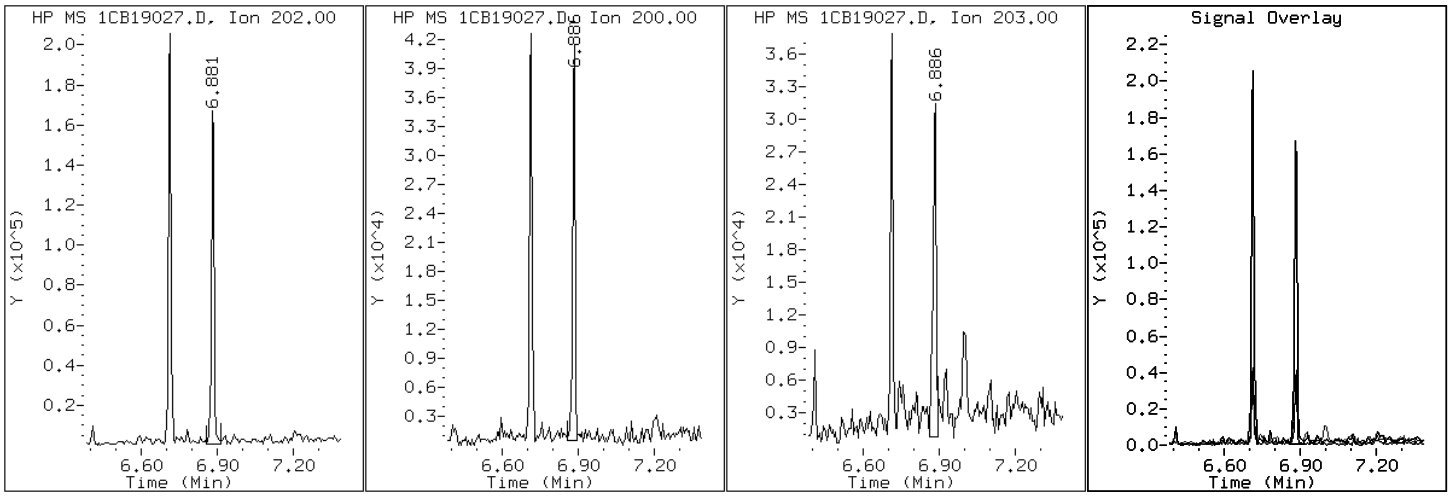
Data File: 1CB19027.D

Date: 19-FEB-2013 21:28

Client ID: CV0748BBB-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-31-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19027.D
Inj. Date and Time: 19-FEB-2013 21:28
Instrument ID: BSMC5973.i
Client ID: CV0748BBB-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

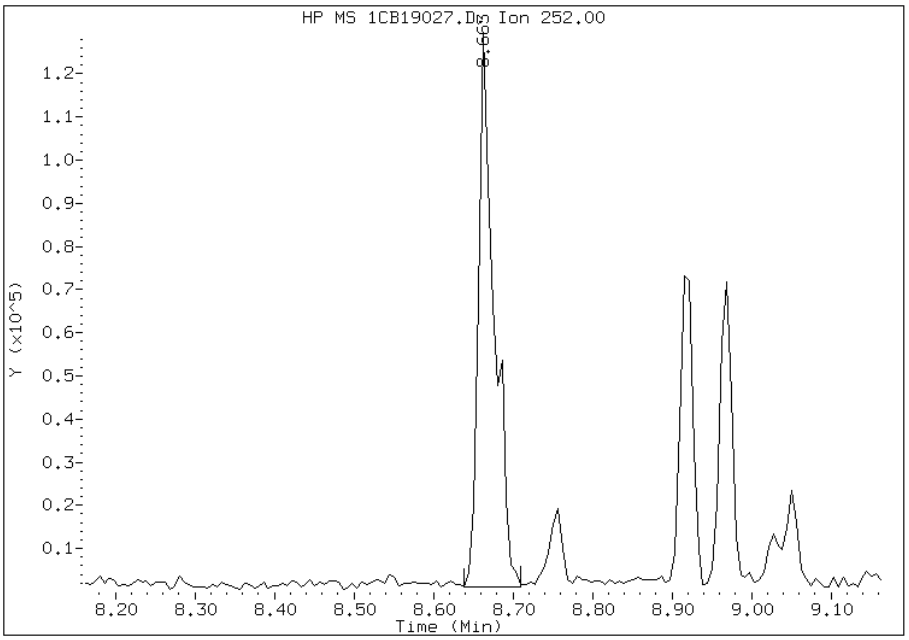
Processing Integration Results

RT: 8.66

Response: 178142

Amount: 3

Conc: 736



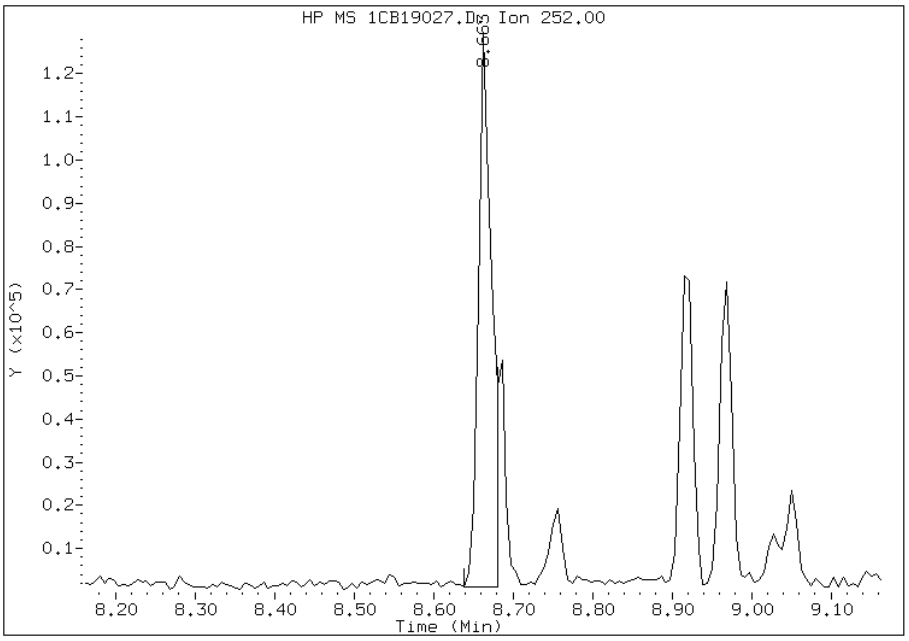
Manual Integration Results

RT: 8.66

Response: 149145

Amount: 2

Conc: 616



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19027.D
Inj. Date and Time: 19-FEB-2013 21:28
Instrument ID: BSMC5973.i
Client ID: CV0748BBB-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

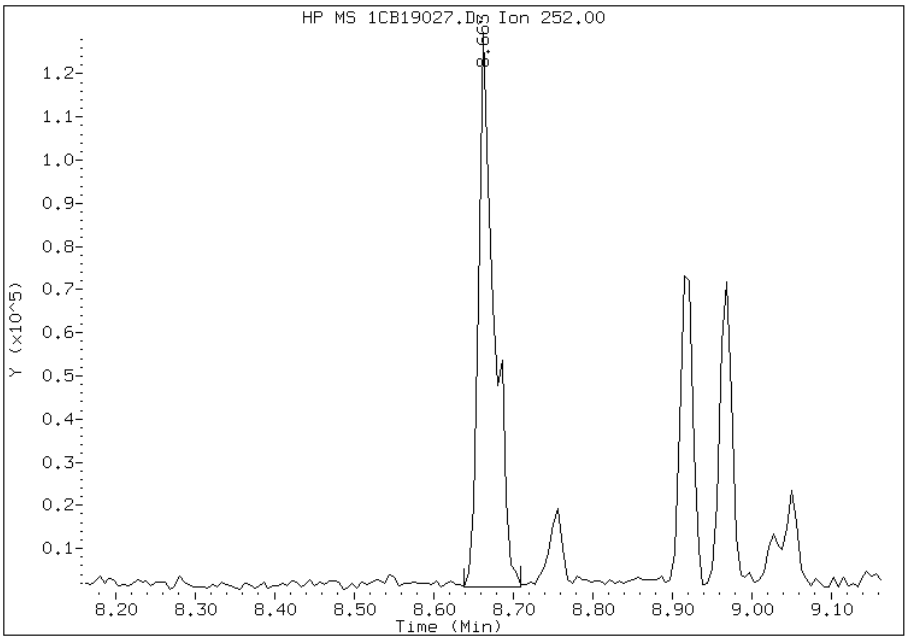
Processing Integration Results

RT: 8.66

Response: 178045

Amount: 2

Conc: 668



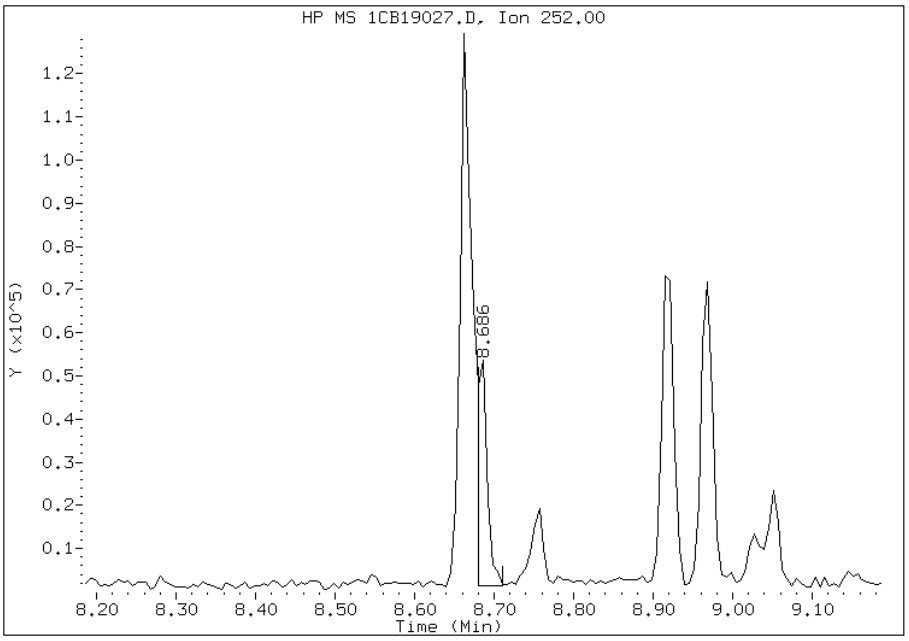
Manual Integration Results

RT: 8.69

Response: 45068

Amount: 1

Conc: 169



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19027.D
Inj. Date and Time: 19-FEB-2013 21:28
Instrument ID: BSMC5973.i
Client ID: CV0748BBB-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

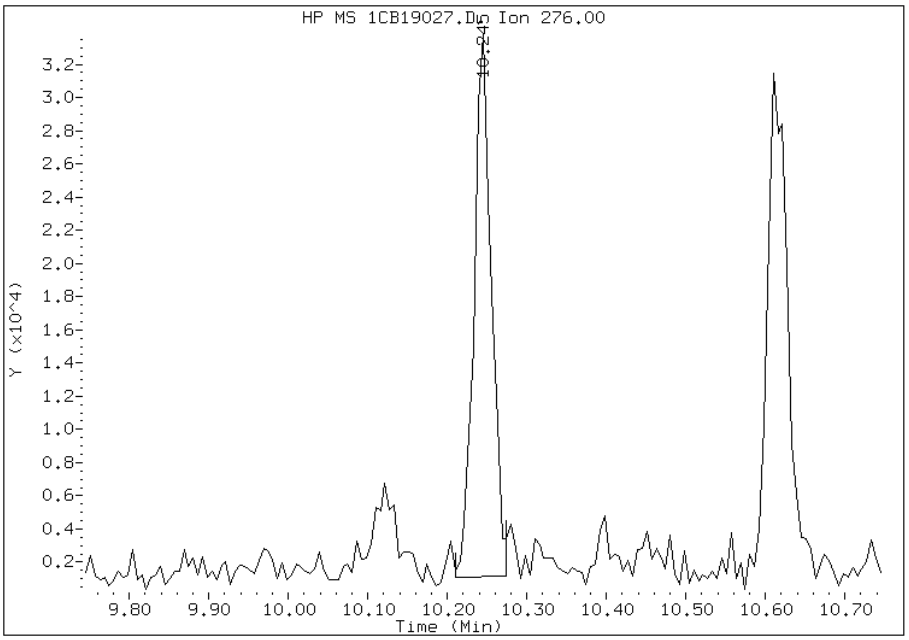
Processing Integration Results

RT: 10.25

Response: 49469

Amount: 1

Conc: 224



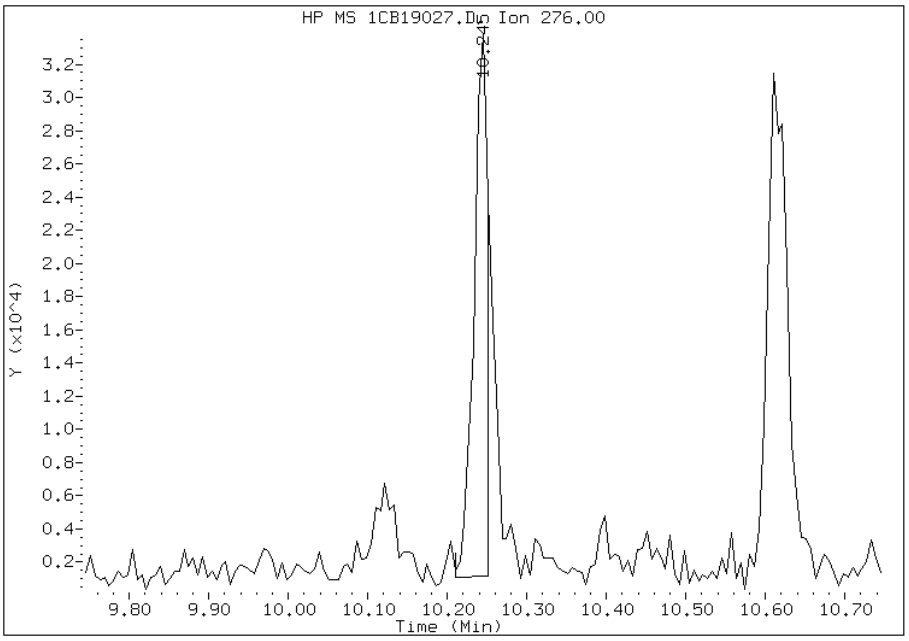
Manual Integration Results

RT: 10.25

Response: 39181

Amount: 1

Conc: 177



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748DDD-CS | Lab Sample ID: 680-87320-32

Matrix: Solid | Lab File ID: 1CB19028.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 15:19

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 14.92(g) | Date Analyzed: 02/19/2013 21:47

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

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

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

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	410	U	410	83
208-96-8	Acenaphthylene	63	J	170	21
120-12-7	Anthracene	89		35	17
56-55-3	Benzo[a]anthracene	480		33	16
50-32-8	Benzo[a]pyrene	460		43	22
205-99-2	Benzo[b]fluoranthene	760		51	25
191-24-2	Benzo[g,h,i]perylene	350		83	18
207-08-9	Benzo[k]fluoranthene	330		33	15
218-01-9	Chrysene	550		37	19
53-70-3	Dibenz(a,h)anthracene	120		83	17
206-44-0	Fluoranthene	780		83	17
86-73-7	Fluorene	30	J	83	17
193-39-5	Indeno[1,2,3-cd]pyrene	290		83	29
90-12-0	1-Methylnaphthalene	190		170	18
91-57-6	2-Methylnaphthalene	260		170	29
91-20-3	Naphthalene	200		170	18
85-01-8	Phenanthrene	450		33	16
129-00-0	Pyrene	720		83	15

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19028.D
Lab Smp Id: 680-87320-A-32-A Client Smp ID: CV0748DDD-CS
Inj Date : 19-FEB-2013 21:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-32-a
Misc Info : 680-87320-A-32-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 28
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	2.878	% 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	3.816	3.816	(1.000)	2262296	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1695400	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2992429	40.0000	
$ 14 o-Terphenyl	230	6.109	6.110	(1.043)	97995	2.23499	616.9456
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2966090	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2790342	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	43902	0.73234	202.1541
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	36596	0.93885	259.1605
4 1-Methylnaphthalene	142	4.315	4.316	(1.131)	24431	0.68914	190.2306
5 Acenaphthylene	152	4.815	4.816	(0.982)	15371	0.22789	62.9059
9 Fluorene	166	5.245	5.245	(1.070)	5812	0.10703	29.5440(Q)
11 Phenanthrene	178	5.874	5.874	(1.003)	145280	1.62648	448.9724
12 Anthracene	178	5.904	5.910	(1.008)	25895	0.32177	88.8219
13 Carbazole	167	6.015	6.015	(1.027)	18535	0.26515	73.1925

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	248156	2.84322	784.8422
16 Pyrene	202	6.880	6.886	(0.882)	204950	2.59547	716.4534
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	141217	1.72650	476.5819
19 Chrysene	228	7.827	7.827	(1.003)	168074	1.98930	549.1274
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	189371	2.76817	764.1270(M)
21 Benzo(k)fluoranthene	252	8.680	8.686	(0.962)	90352	1.19885	330.9320(M)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	109268	1.67857	463.3516
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.251	(1.135)	65274	1.04399	288.1842(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.268	(1.136)	25608	0.43432	119.8907
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	79421	1.25050	345.1890

QC Flag Legend

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

Data File: 1CB19028.D

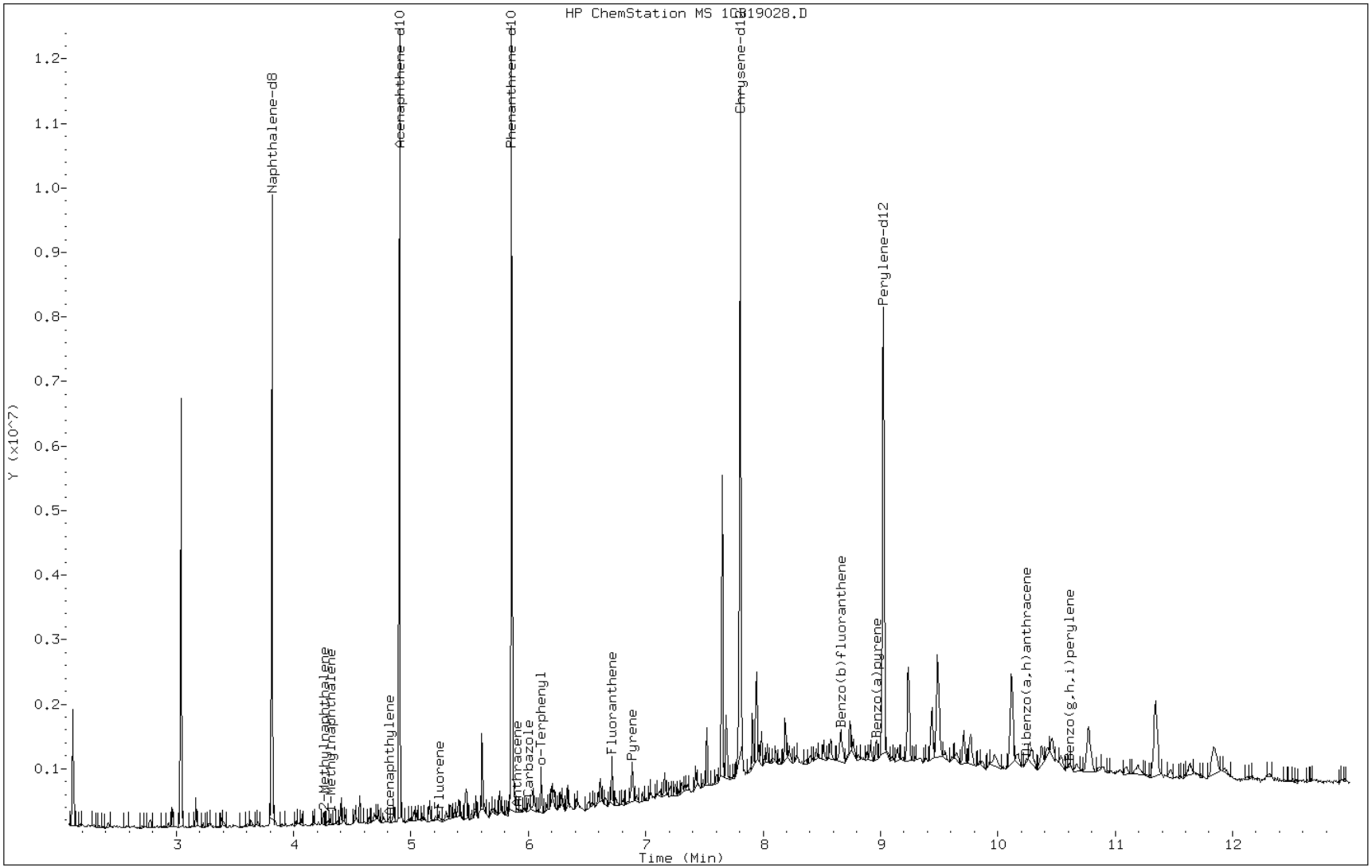
Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a

Operator: SCC



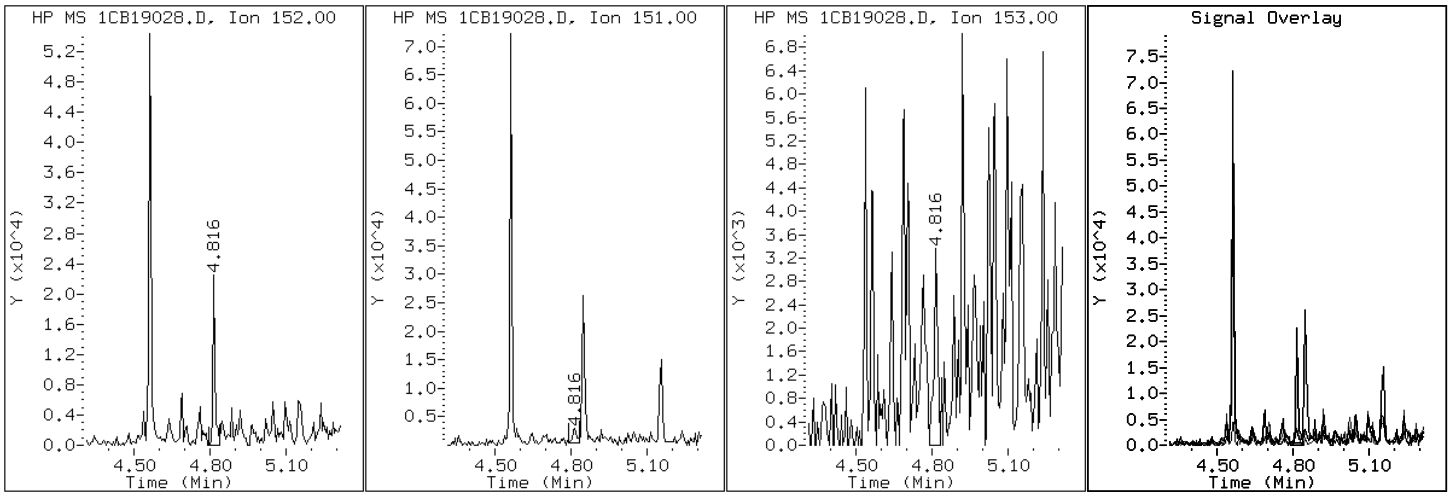
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

5 Acenaphthylene



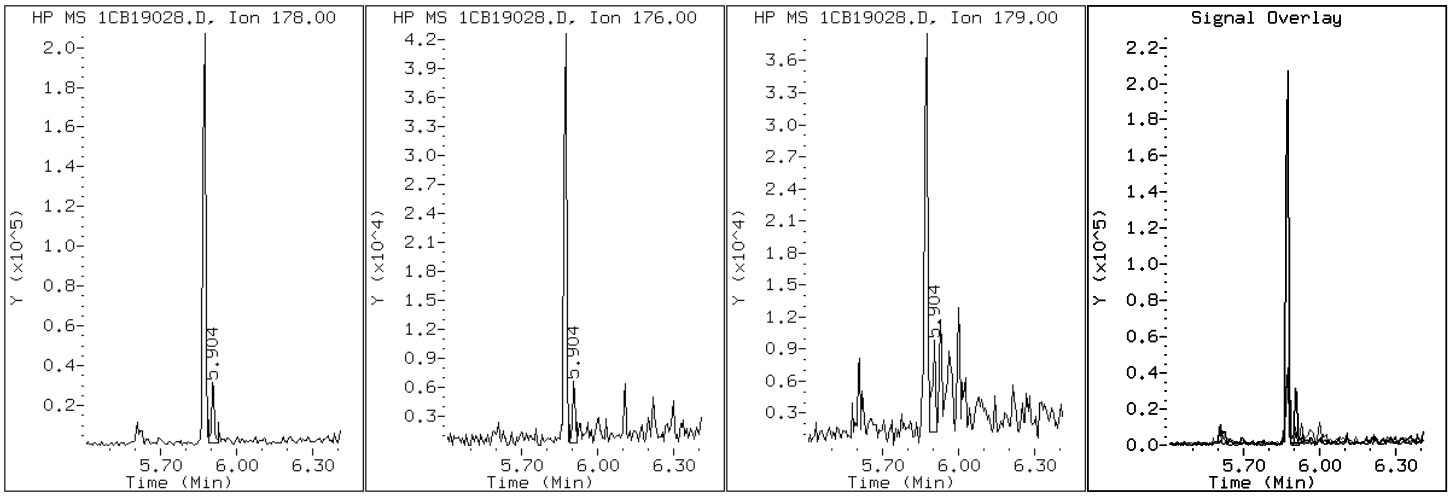
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

12 Anthracene



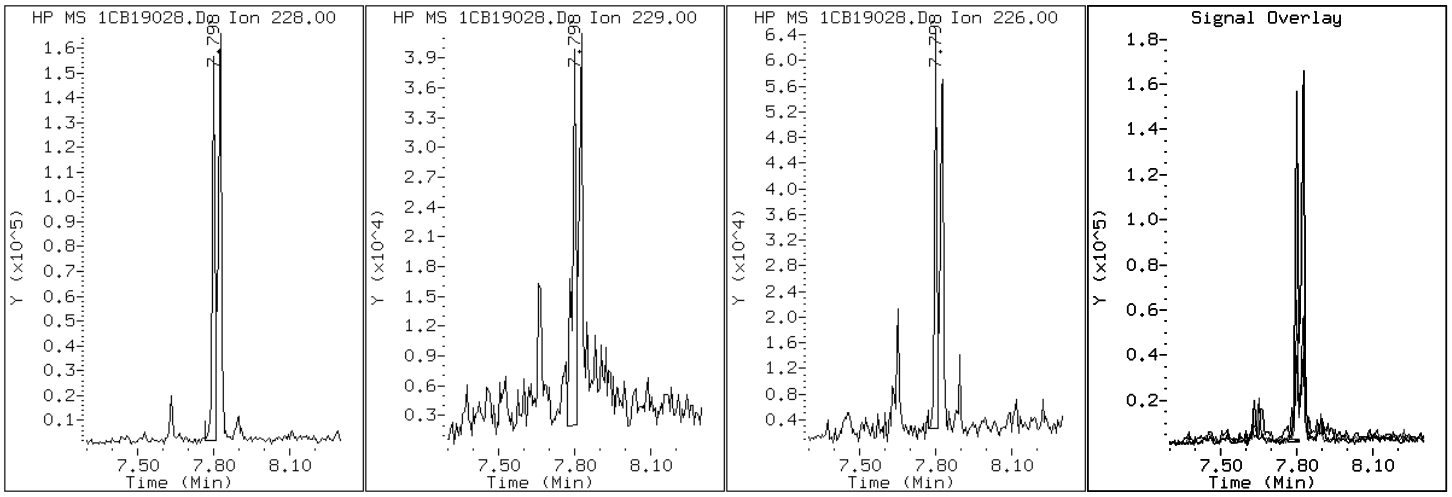
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

17 Benzo(a)anthracene



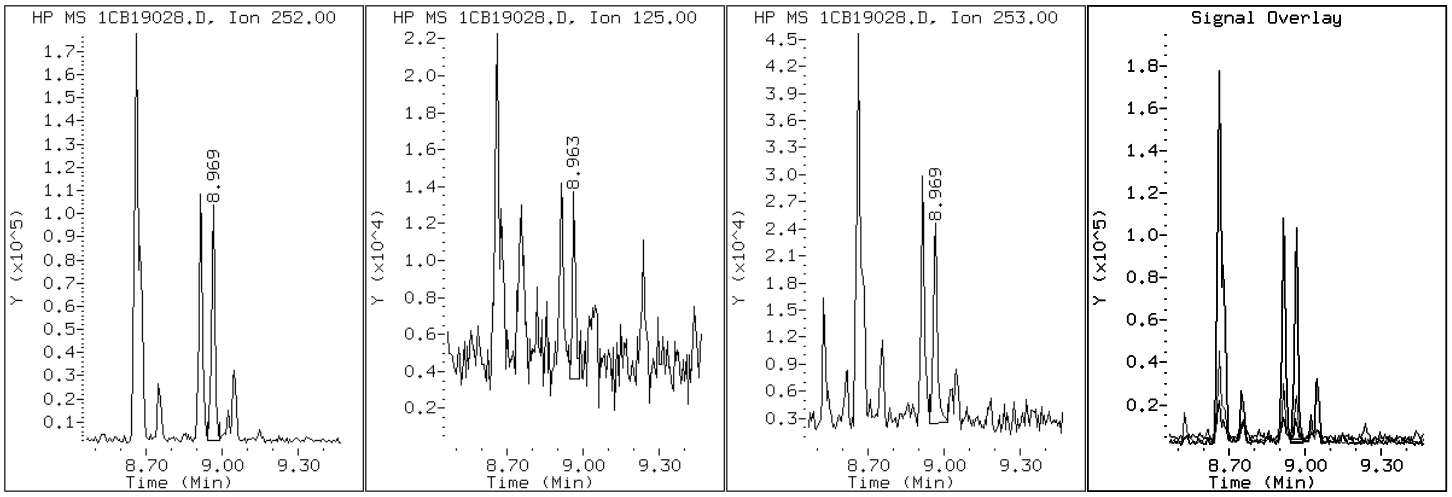
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

22 Benzo(a)pyrene



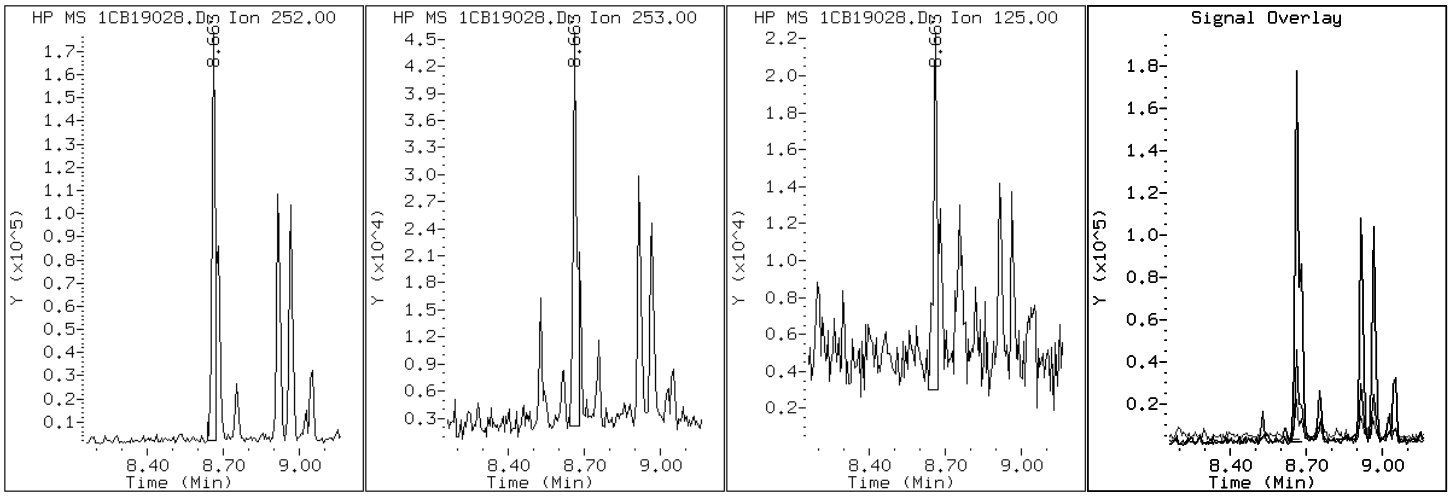
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

20 Benzo(b)fluoranthene



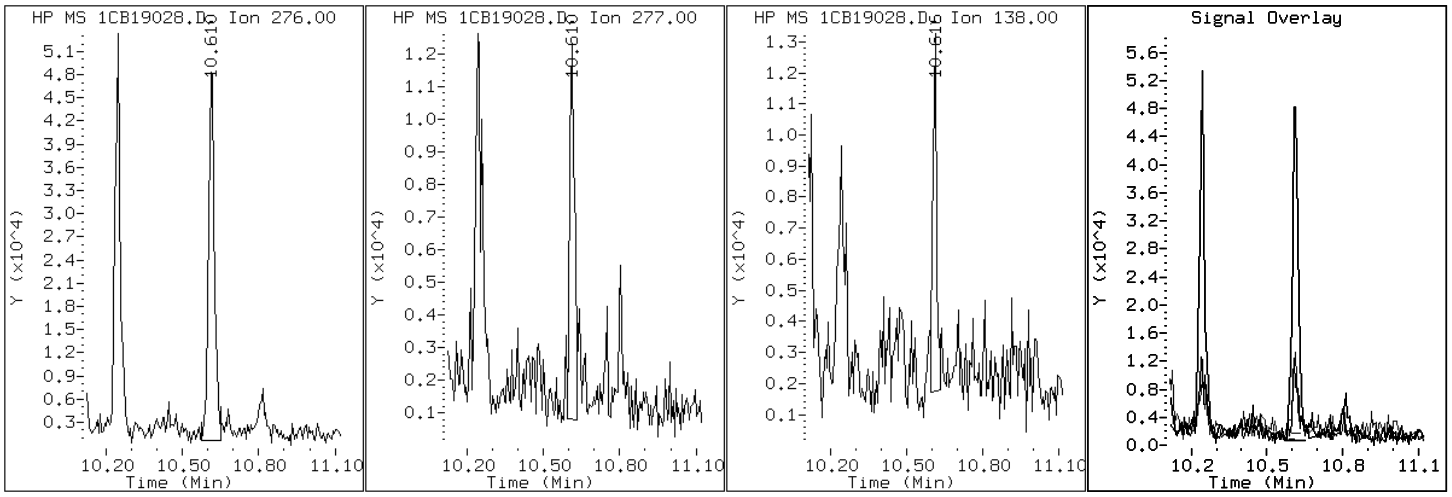
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

26 Benzo(g,h,i)perylene



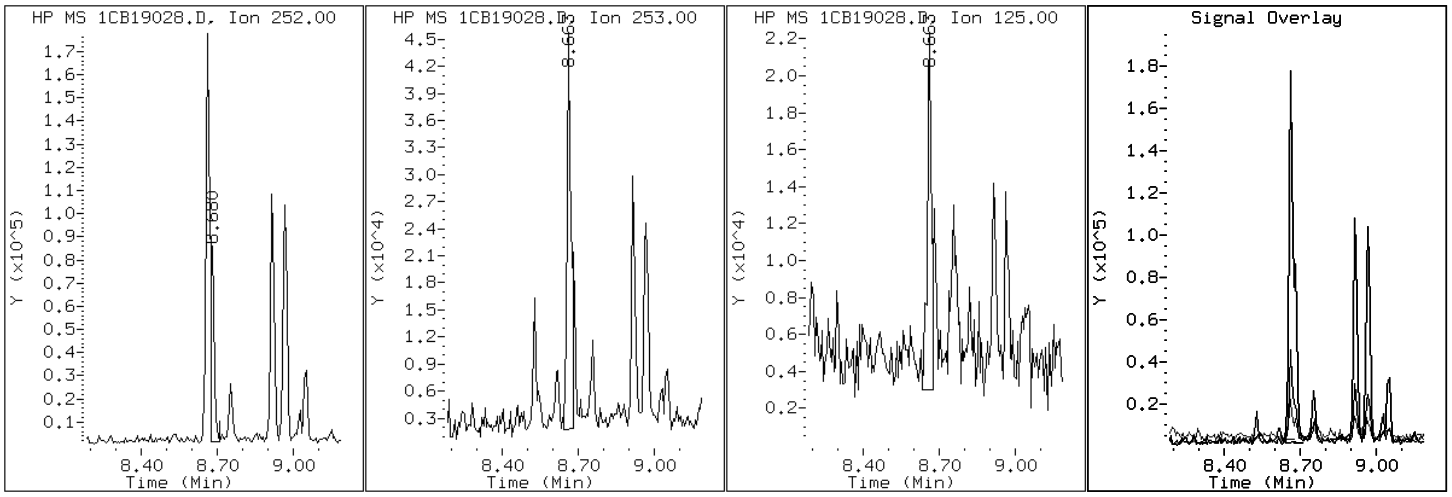
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

21 Benzo(k)fluoranthene



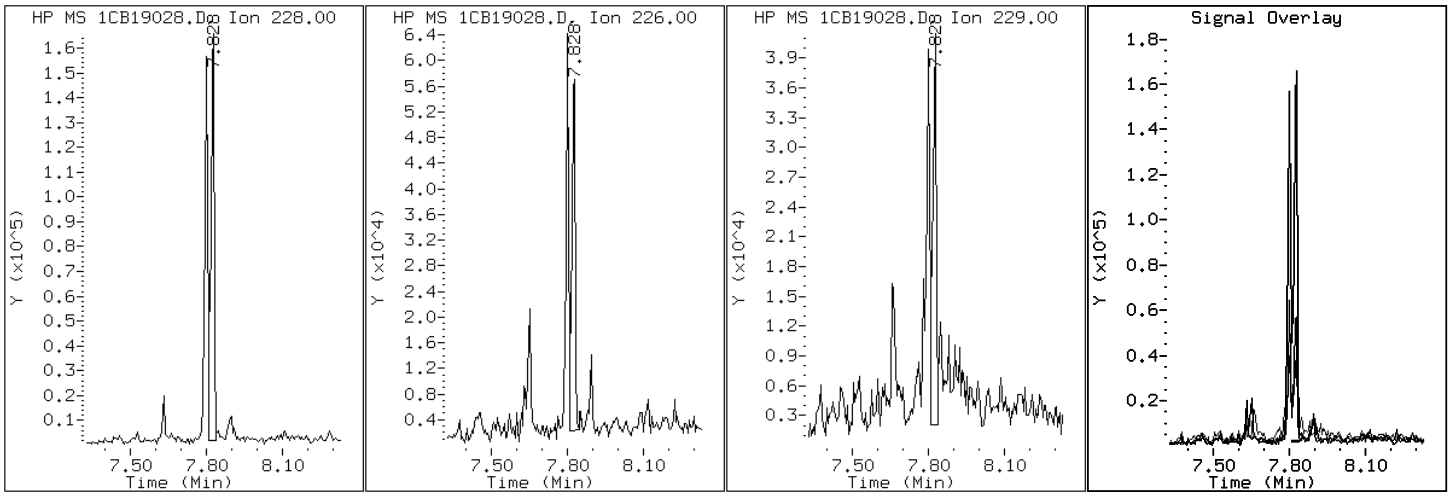
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

19 Chrysene



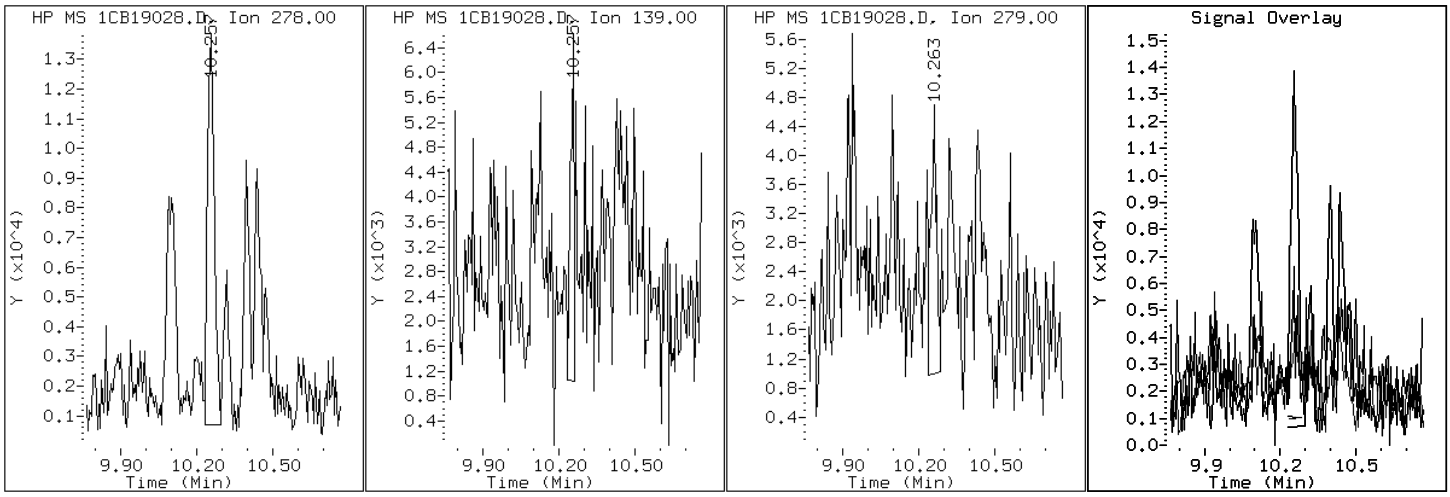
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

25 Dibenzo(a,h)anthracene



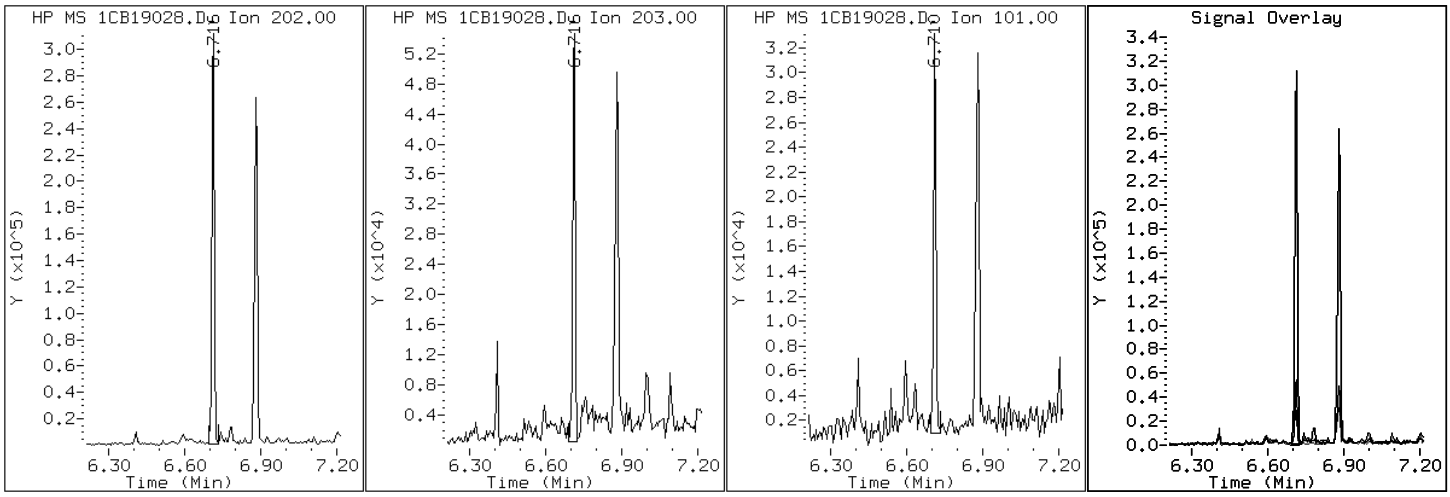
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

15 Fluoranthene



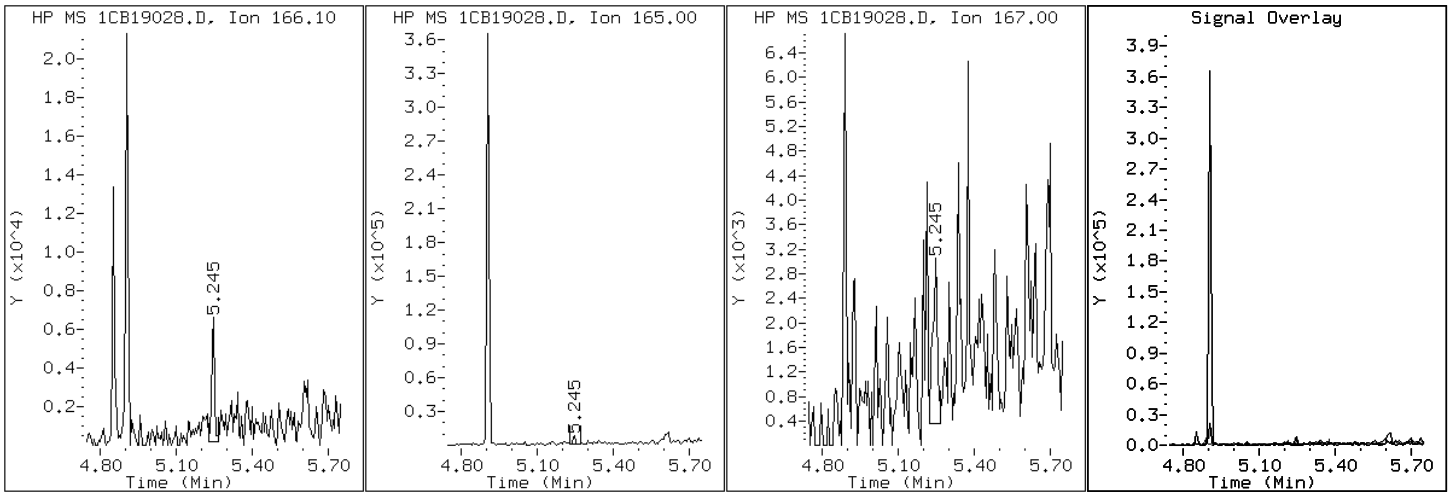
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

9 Fluorene



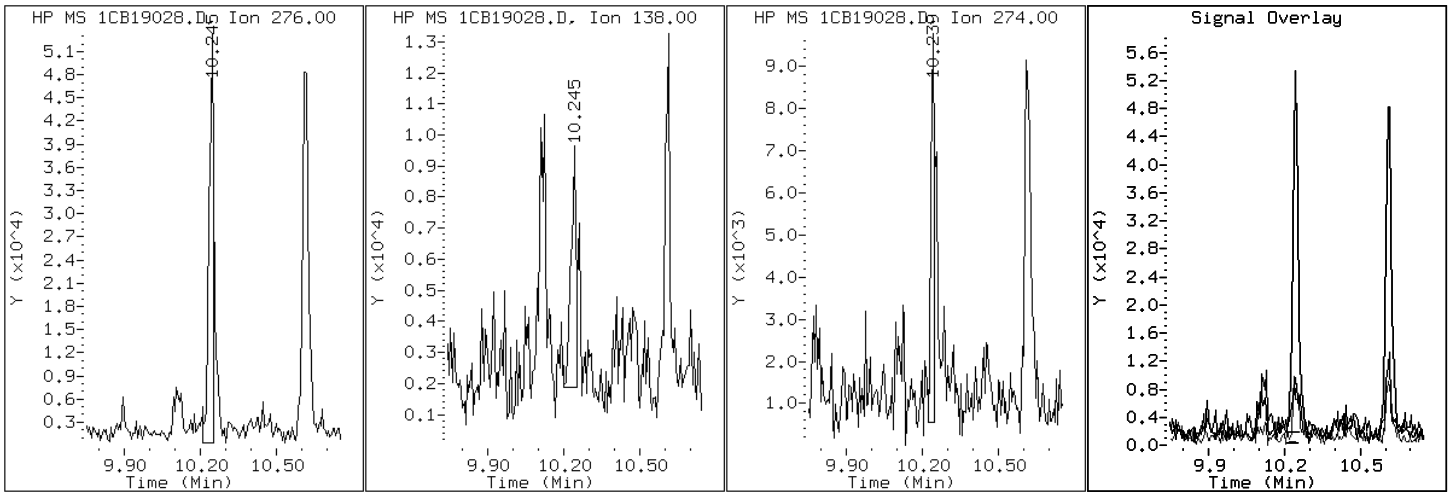
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

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



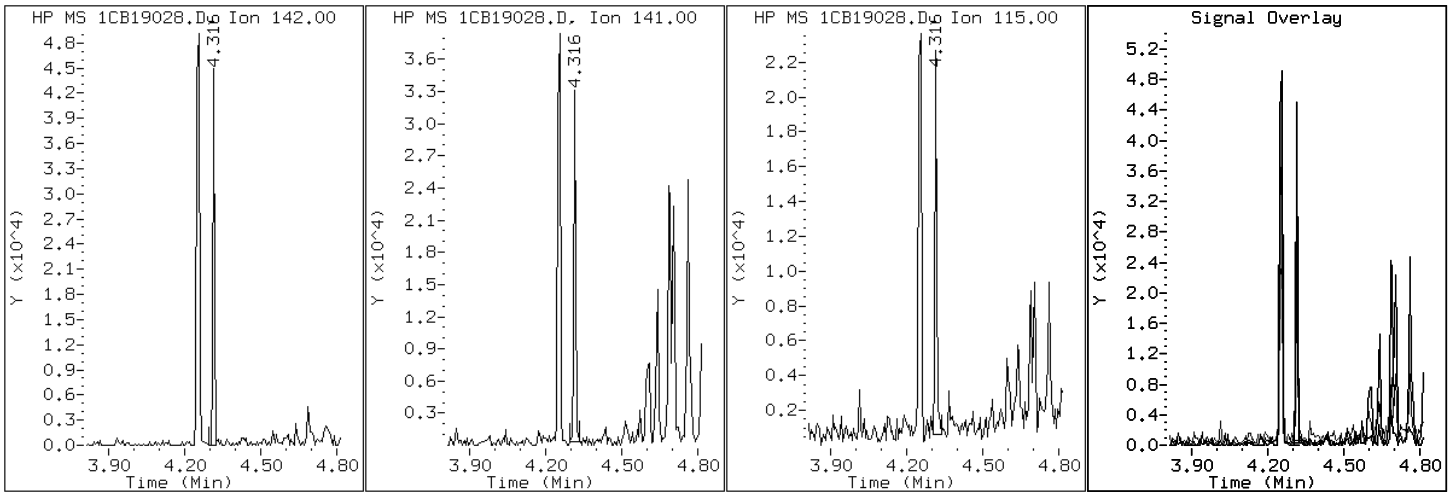
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

4 1-Methylnaphthalene



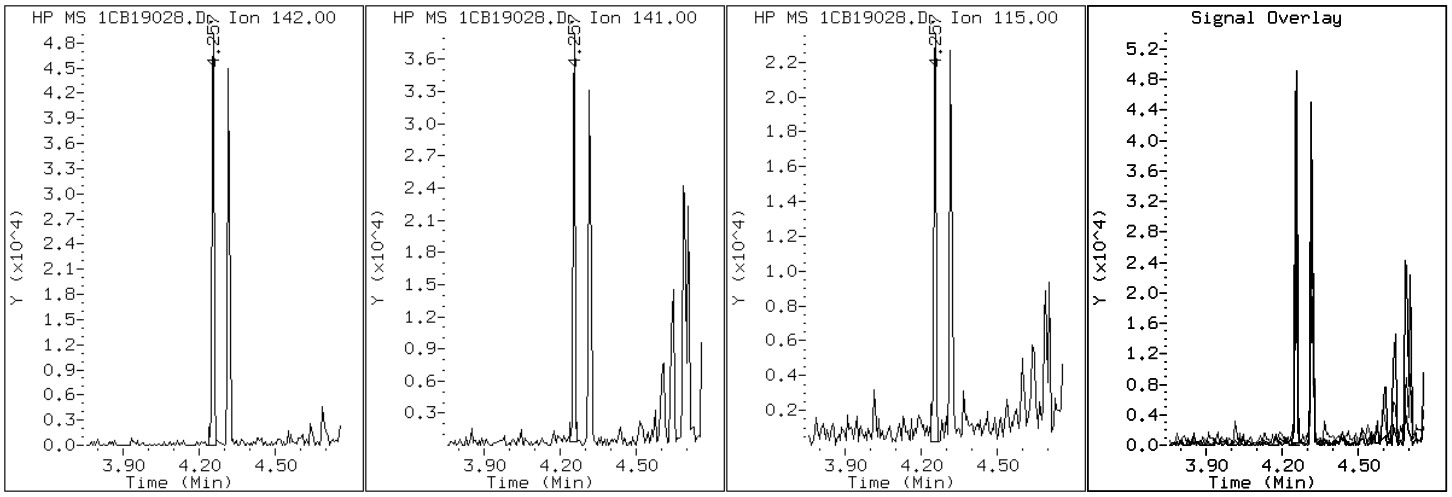
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

3 2-Methylnaphthalene



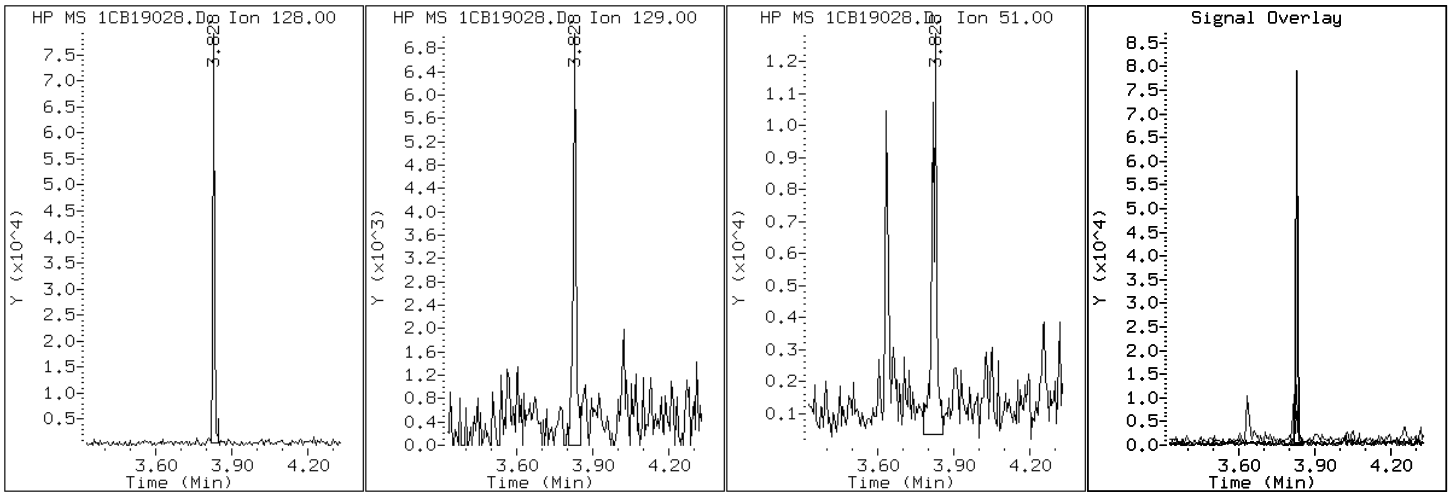
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

2 Naphthalene



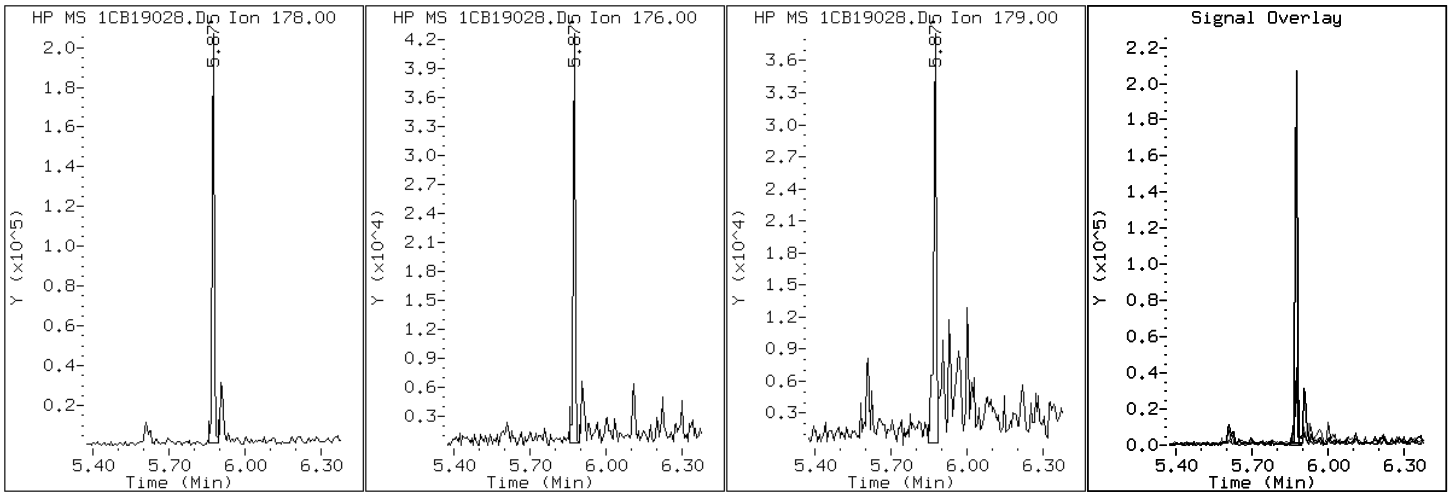
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

11 Phenanthrene



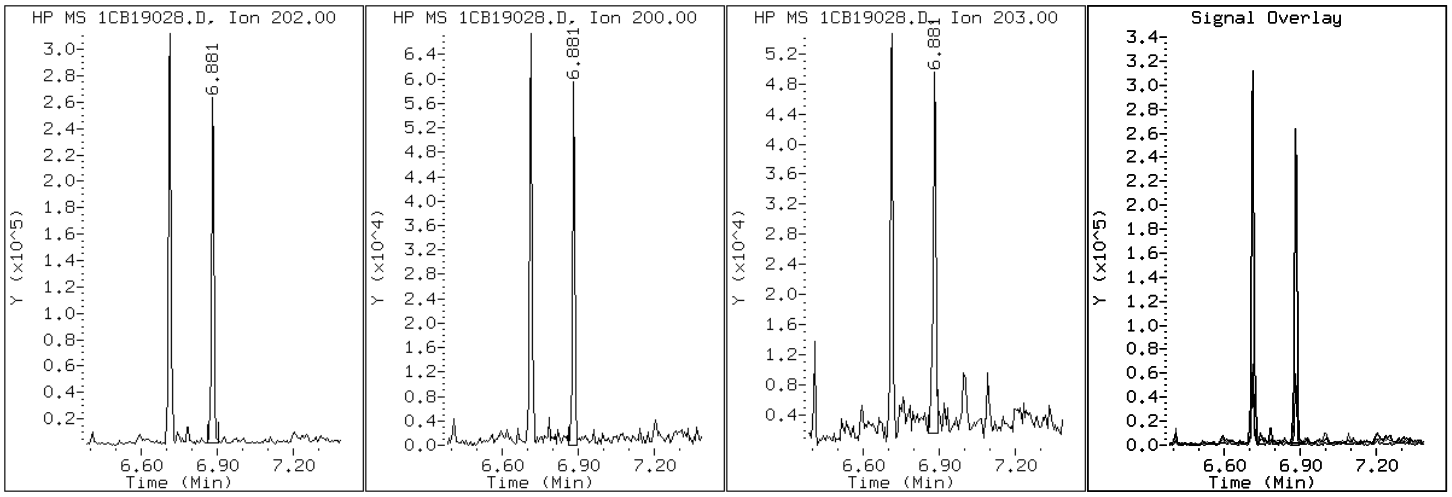
Data File: 1CB19028.D

Date: 19-FEB-2013 21:47

Client ID: CV0748DDD-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-32-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19028.D
Inj. Date and Time: 19-FEB-2013 21:47
Instrument ID: BSMC5973.i
Client ID: CV0748DDD-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

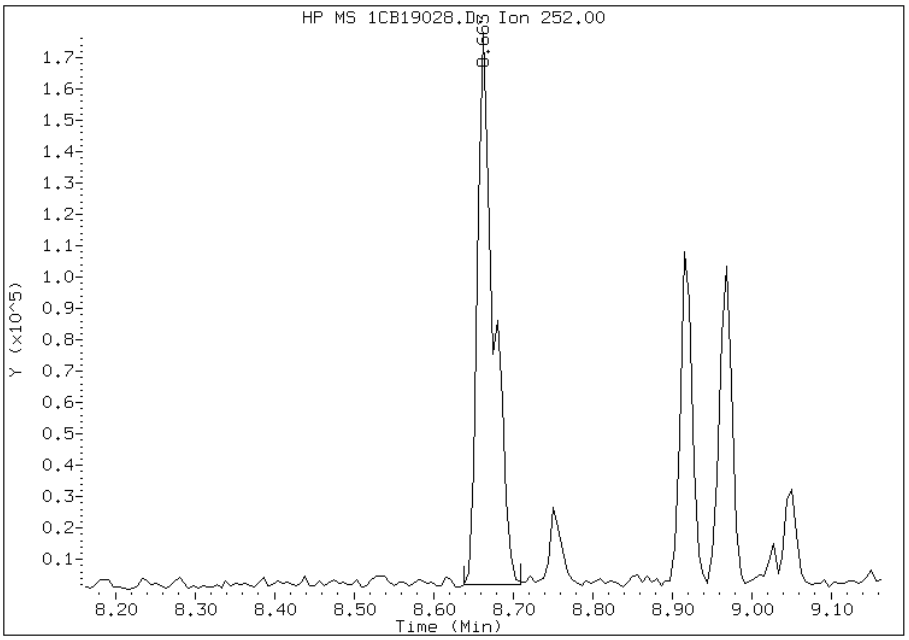
Processing Integration Results

RT: 8.66

Response: 253142

Amount: 4

Conc: 1021



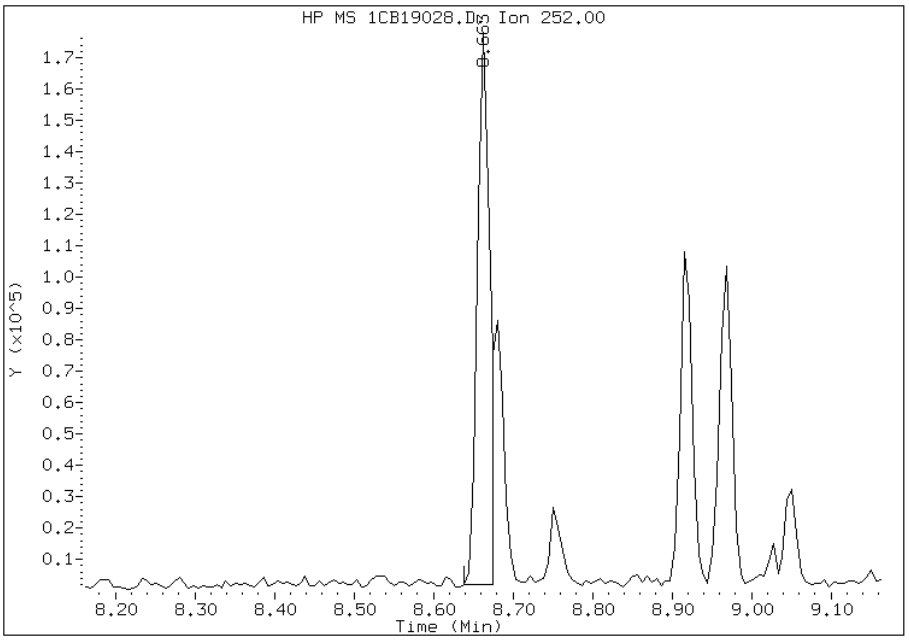
Manual Integration Results

RT: 8.66

Response: 189371

Amount: 3

Conc: 764



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:53
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19028.D
Inj. Date and Time: 19-FEB-2013 21:47
Instrument ID: BSMC5973.i
Client ID: CV0748DDD-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

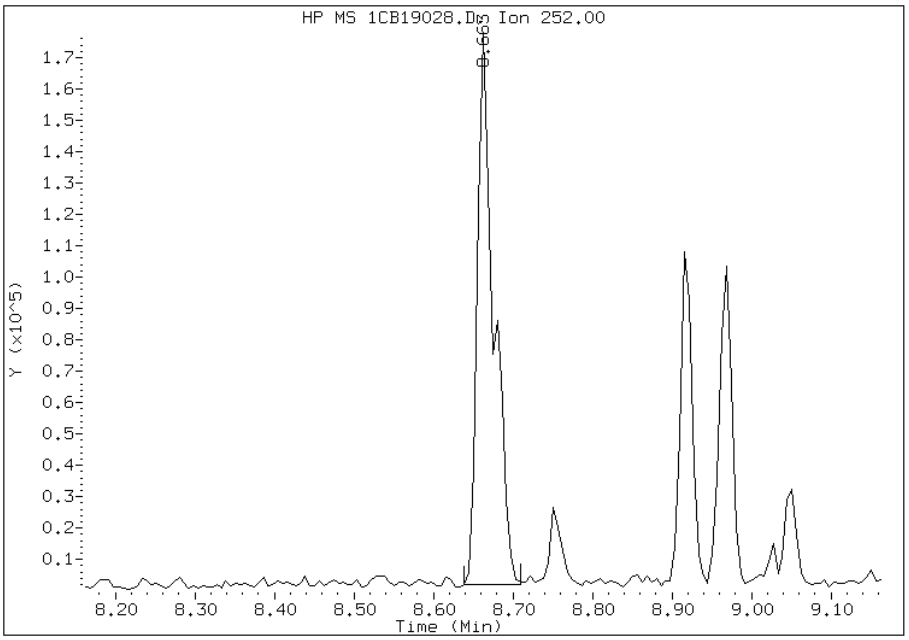
Processing Integration Results

RT: 8.66

Response: 253142

Amount: 3

Conc: 927



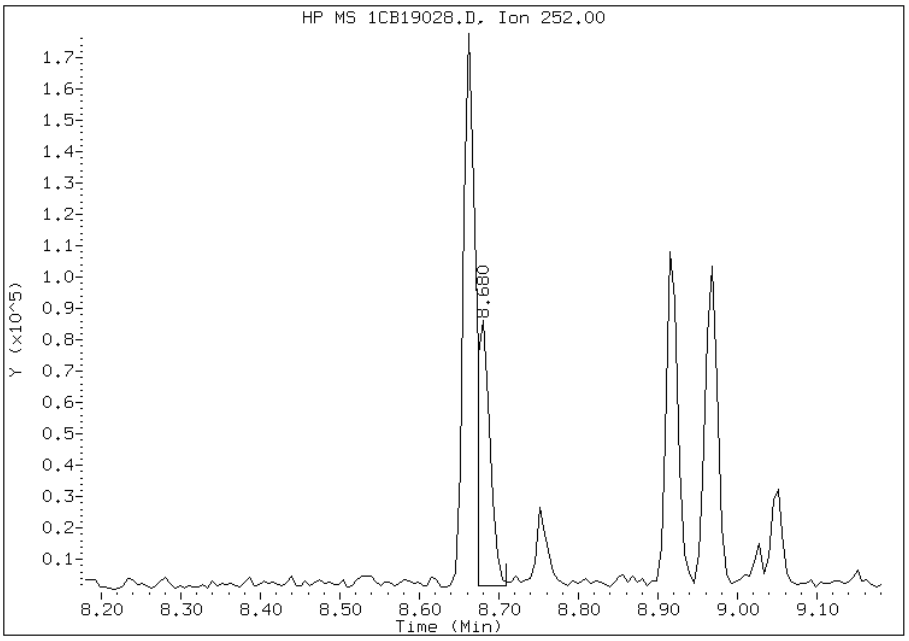
Manual Integration Results

RT: 8.68

Response: 90352

Amount: 1

Conc: 331



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19028.D
Inj. Date and Time: 19-FEB-2013 21:47
Instrument ID: BSMC5973.i
Client ID: CV0748DDD-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

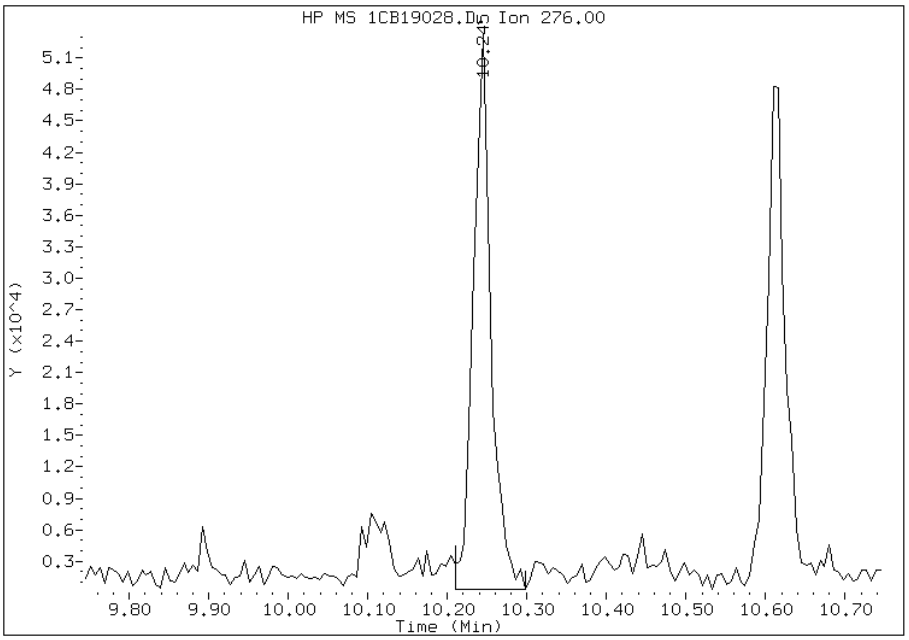
Processing Integration Results

RT: 10.25

Response: 81410

Amount: 1

Conc: 359



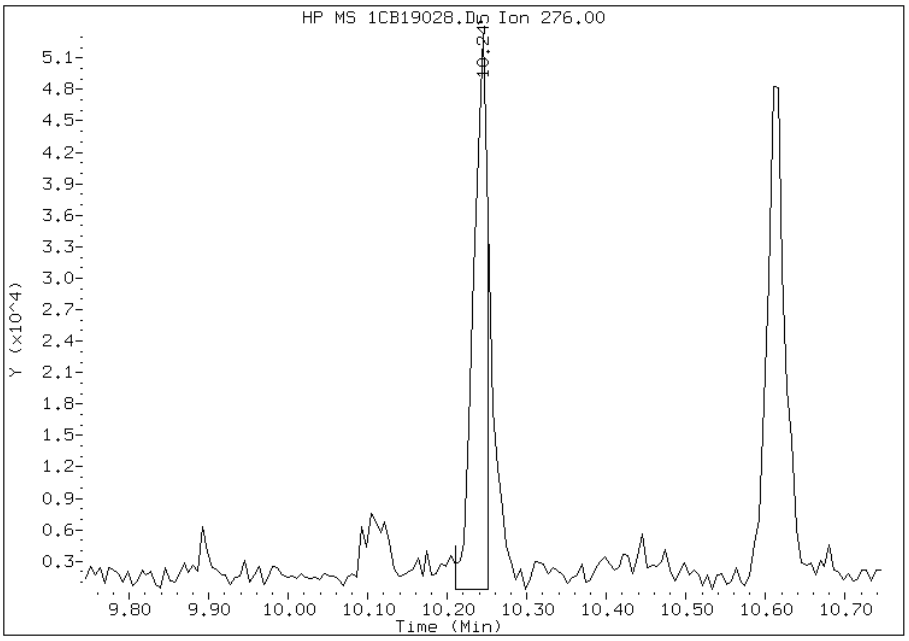
Manual Integration Results

RT: 10.25

Response: 65274

Amount: 1

Conc: 288



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748GGG-CS | Lab Sample ID: 680-87320-33

Matrix: Solid | Lab File ID: 1CB20007.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 15:42

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

Sample wt/vol: 15.37(g) | Date Analyzed: 02/20/2013 15:34

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

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

% Moisture: 4.6 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	10	J	41	5.1
120-12-7	Anthracene	15		8.6	4.3
56-55-3	Benzo[a]anthracene	100		8.2	4.0
50-32-8	Benzo[a]pyrene	98		11	5.3
205-99-2	Benzo[b]fluoranthene	170		12	6.2
191-24-2	Benzo[g,h,i]perylene	79		20	4.5
207-08-9	Benzo[k]fluoranthene	55		8.2	3.7
218-01-9	Chrysene	120		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	26		20	4.2
206-44-0	Fluoranthene	170		20	4.1
86-73-7	Fluorene	8.6	J	20	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	71		20	7.3
90-12-0	1-Methylnaphthalene	33	J	41	4.5
91-57-6	2-Methylnaphthalene	37	J	41	7.3
91-20-3	Naphthalene	33	J	41	4.5
85-01-8	Phenanthrene	100		8.2	4.0
129-00-0	Pyrene	150		20	3.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20007.D
Lab Smp Id: 680-87320-A-33-A Client Smp ID: CV0748GGG-CS
Inj Date : 20-FEB-2013 15:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-33-a
Misc Info : 680-87320-A-33-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: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	4.555	% 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)	2122385	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1678505	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3008375	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	253030	5.74030	391.2974
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3441227	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3448251	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	27148	0.48271	32.9049
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	19806	0.54161	36.9196
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	16091	0.48381	32.9797
5 Acenaphthylene	152	4.810	4.810	(0.982)	9945	0.14893	10.1518
9 Fluorene	166	5.239	5.239	(1.070)	6812	0.12671	8.6371(Q)
11 Phenanthrene	178	5.868	5.869	(1.003)	133700	1.48890	101.4932
12 Anthracene	178	5.898	5.904	(1.008)	18001	0.22250	15.1667
13 Carbazole	167	6.004	6.010	(1.026)	20405	0.29036	19.7925

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)	223845	2.55108	173.8989
16 Pyrene	202	6.874	6.880	(0.882)	195831	2.13757	145.7110
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	145602	1.53432	104.5897
19 Chrysene	228	7.815	7.827	(1.002)	165459	1.68796	115.0625
20 Benzo(b)fluoranthene	252	8.656	8.662	(0.960)	205733	2.43356	165.8879(M)
21 Benzo(k)fluoranthene	252	8.668	8.686	(0.962)	75407	0.80965	55.1914(QM)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	115866	1.44032	98.1821
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.245	(1.135)	80319	1.03952	70.8609(M)
25 Dibenzo(a,h)anthracene	278	10.233	10.262	(1.135)	28120	0.38593	26.3077(M)
26 Benzo(g,h,i)perylene	276	10.597	10.615	(1.175)	91032	1.15985	79.0632(M)

QC Flag Legend

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

Data File: 1CB20007.D

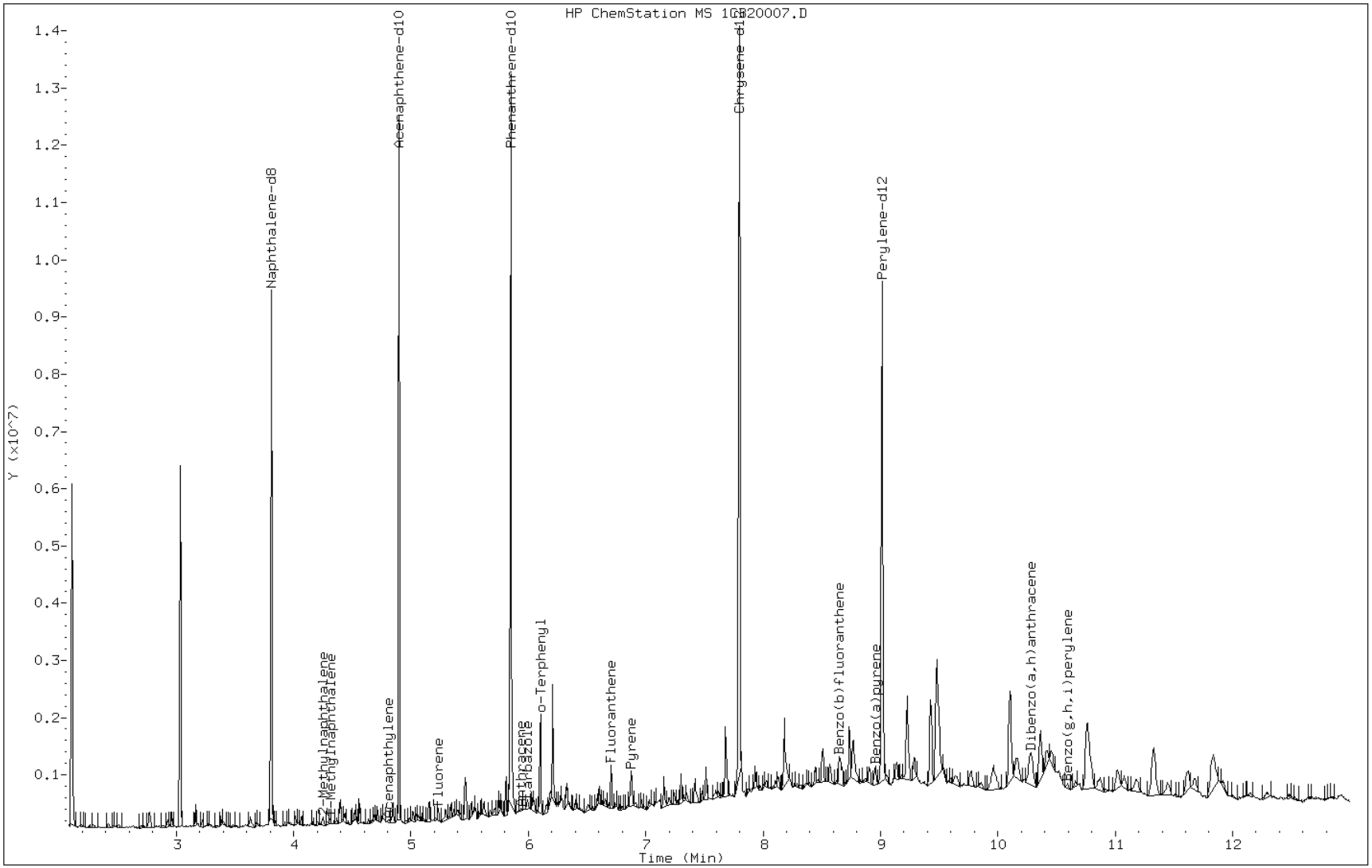
Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a

Operator: SCC



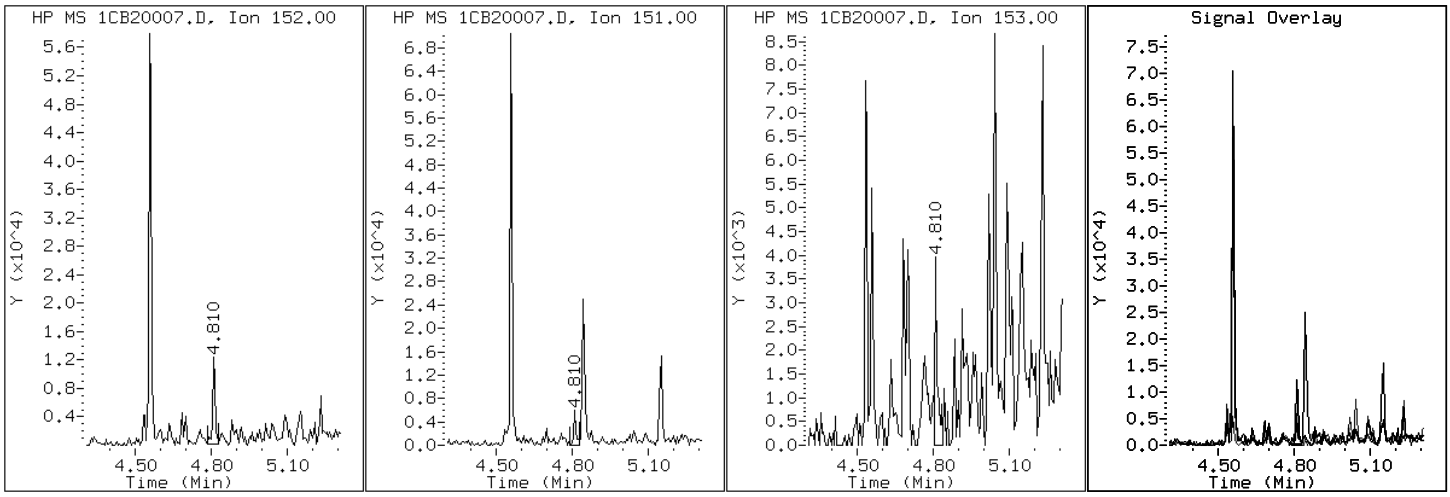
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

5 Acenaphthylene



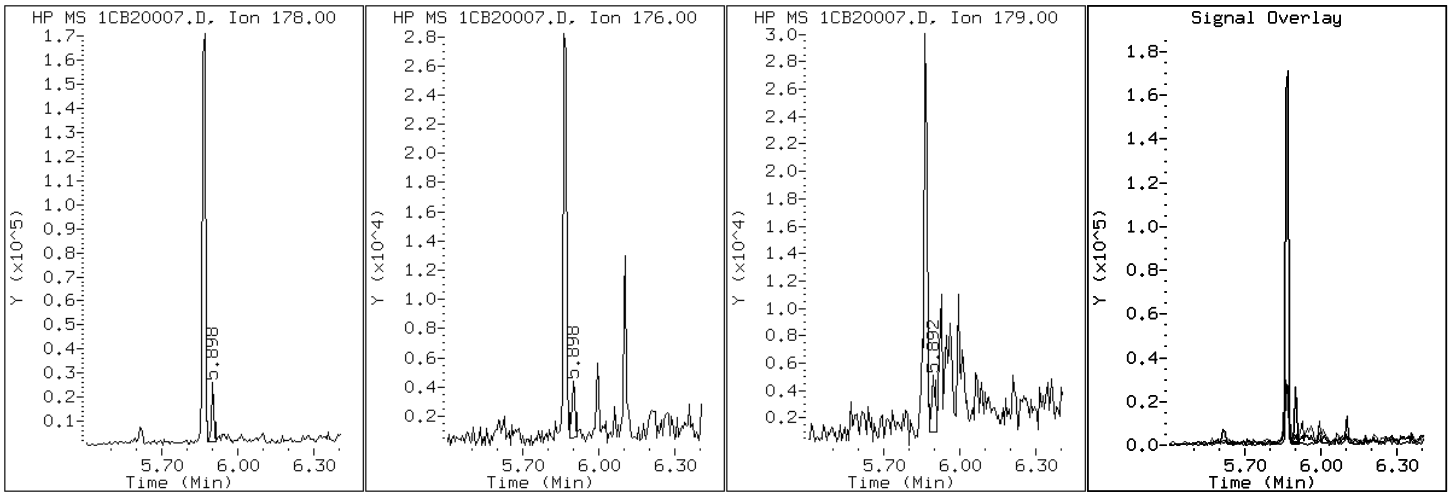
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

12 Anthracene



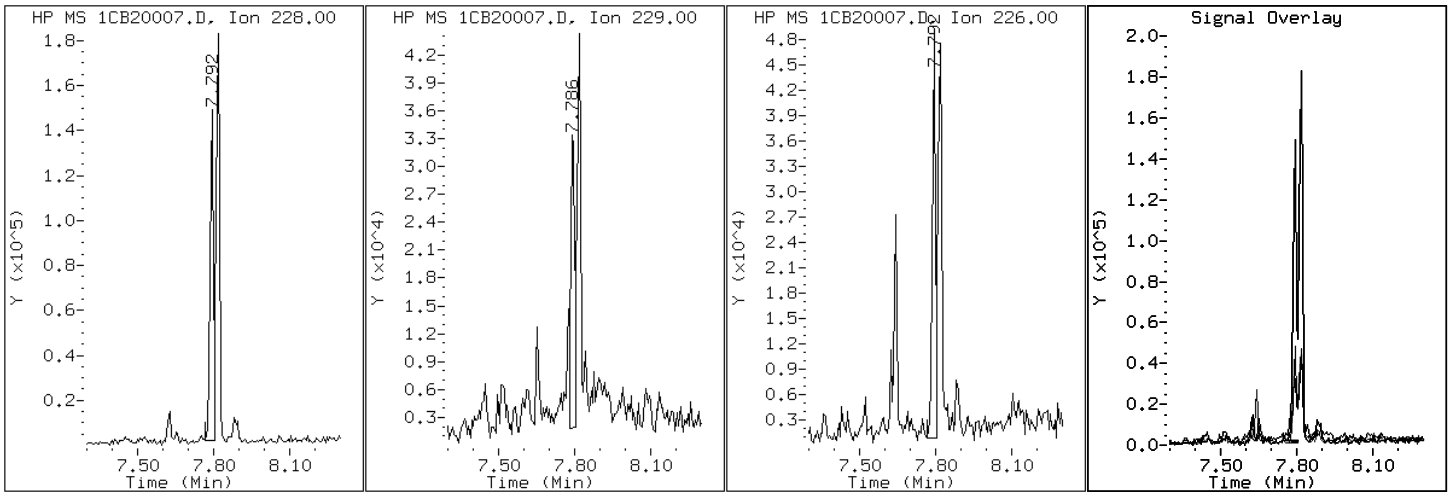
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

17 Benzo(a)anthracene



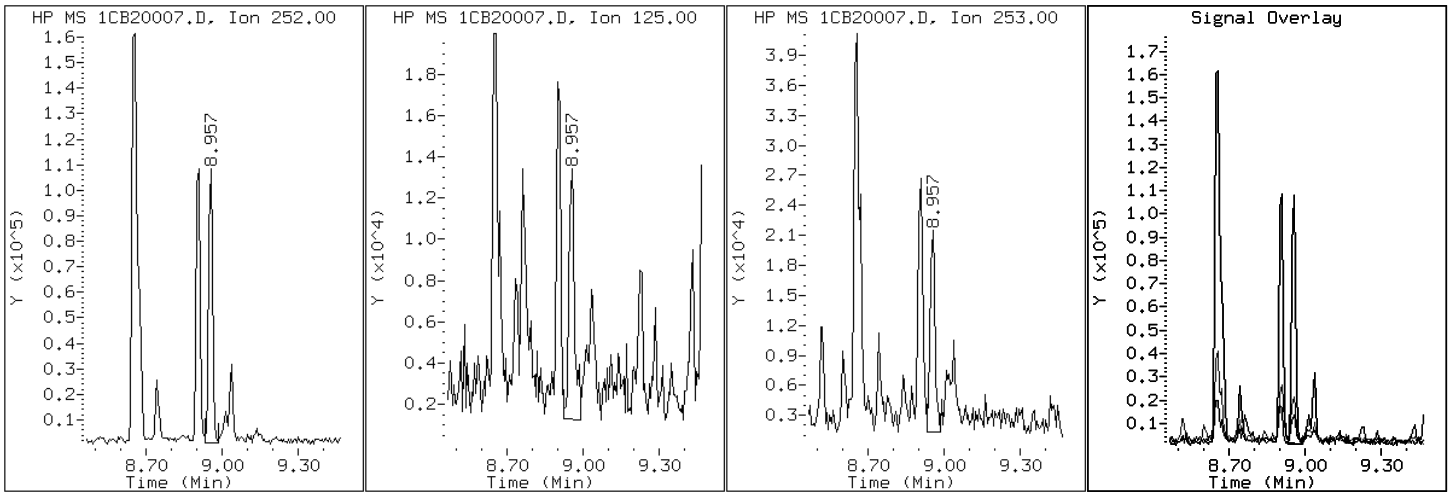
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

22 Benzo(a)pyrene



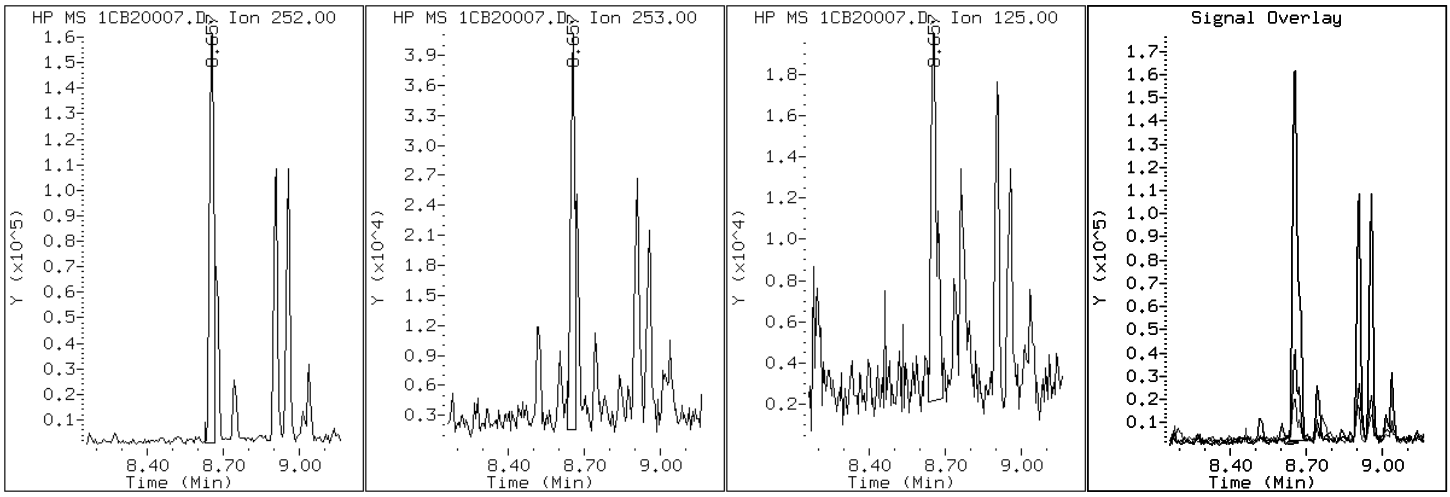
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

20 Benzo(b)fluoranthene



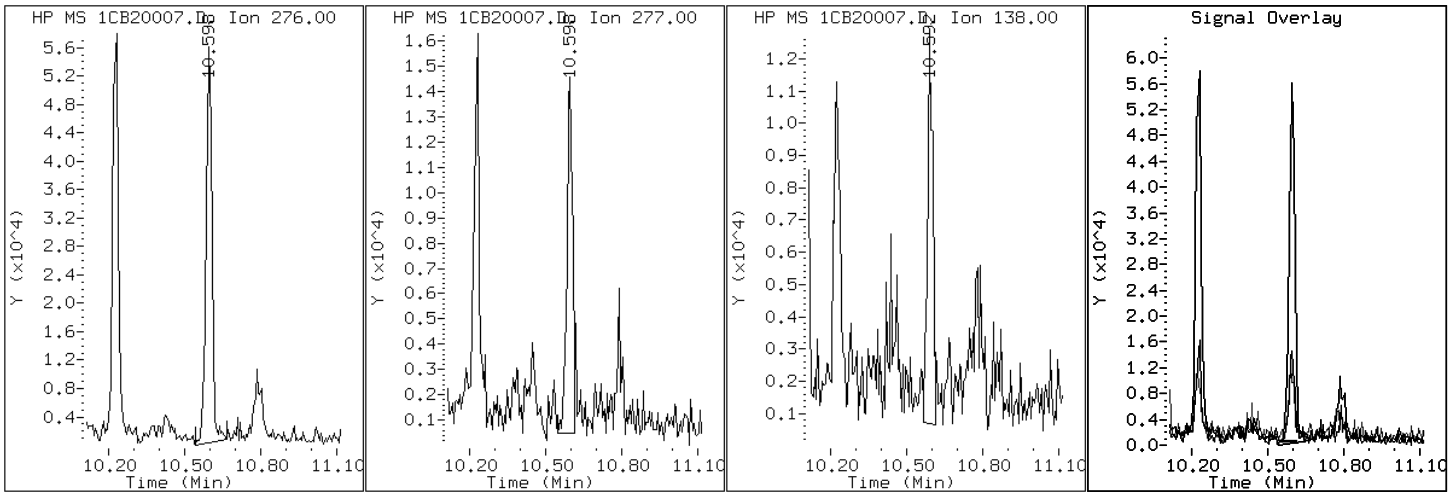
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

26 Benzo(g,h,i)perylene



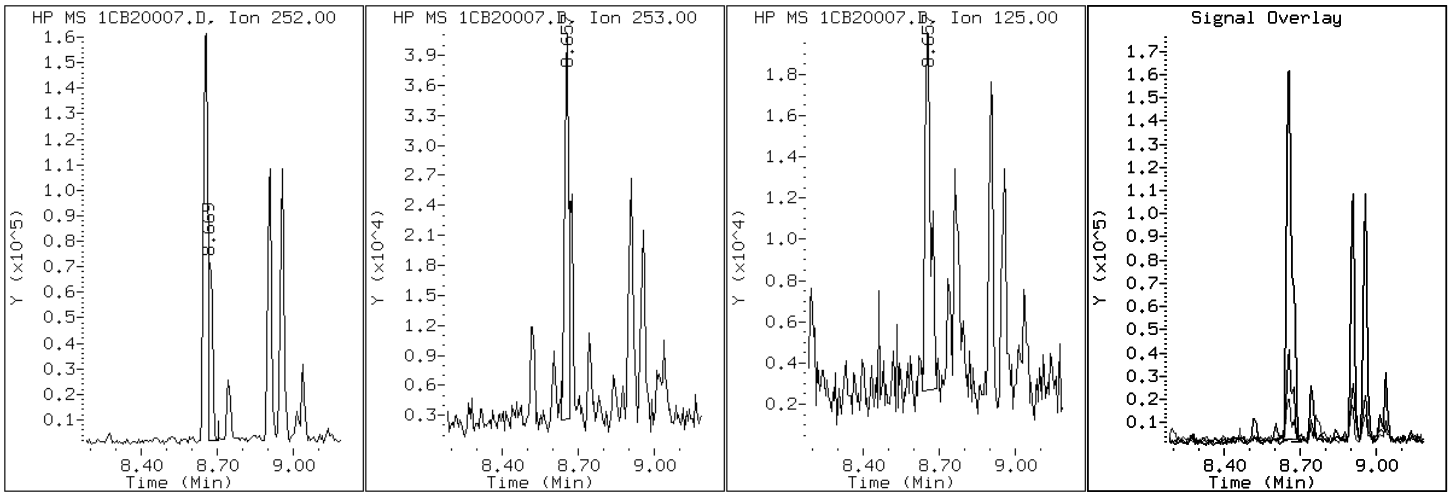
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

21 Benzo(k)fluoranthene



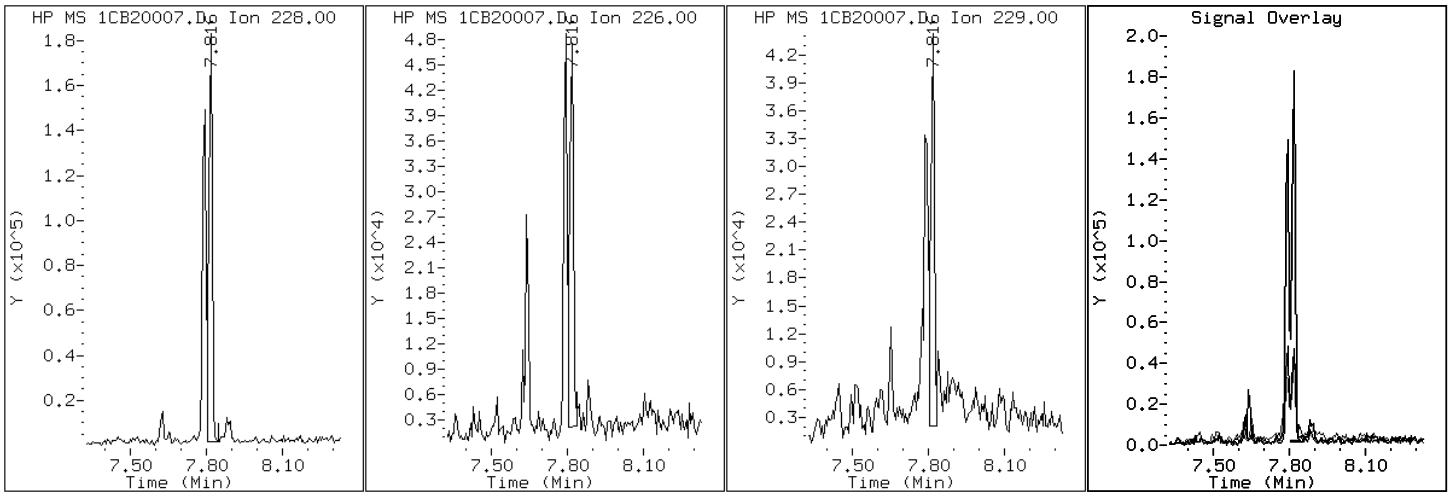
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

19 Chrysene



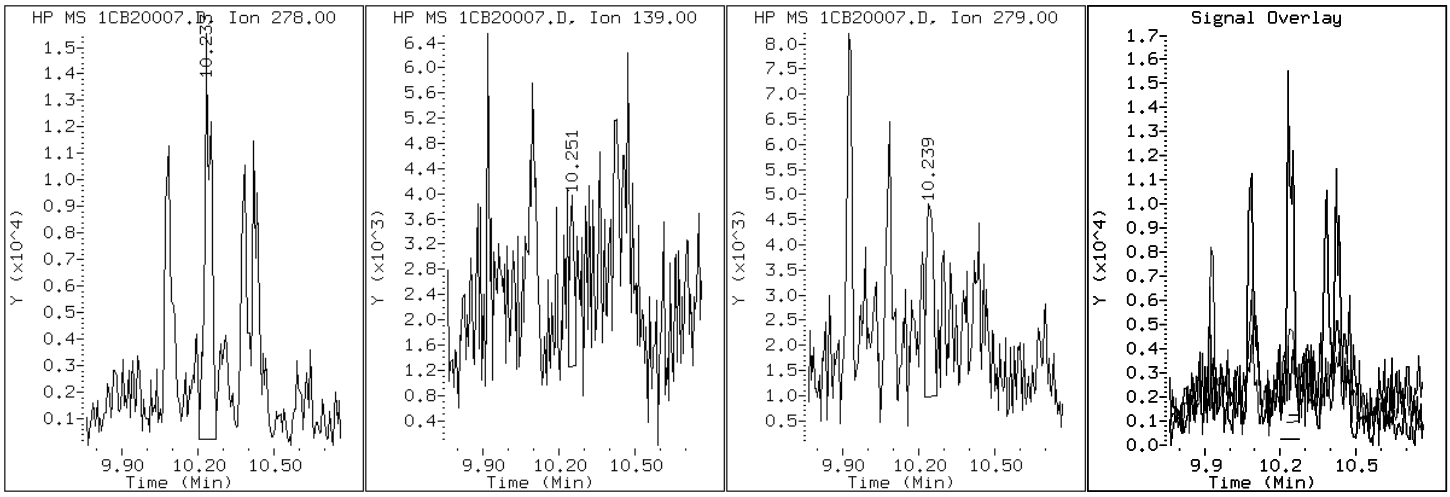
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

25 Dibenzo(a,h)anthracene



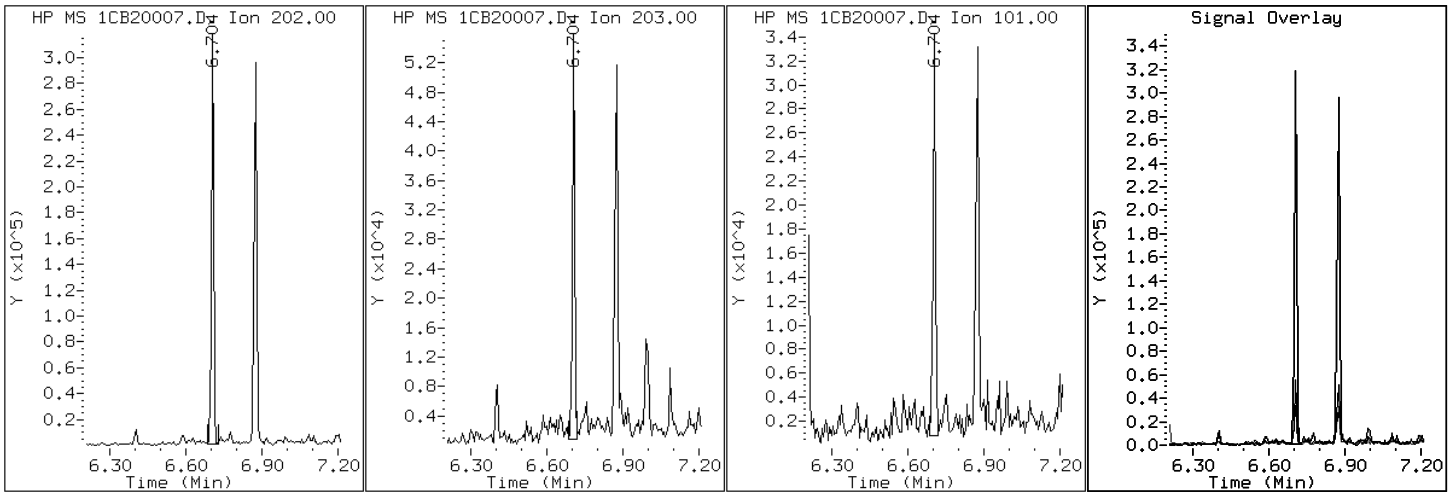
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

15 Fluoranthene



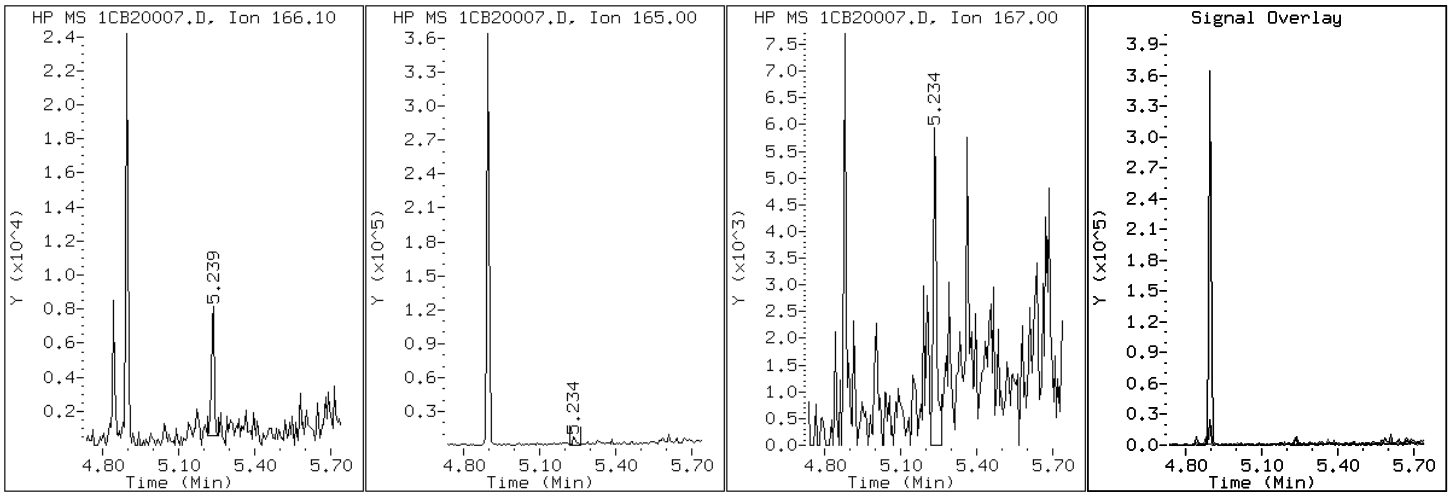
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

9 Fluorene



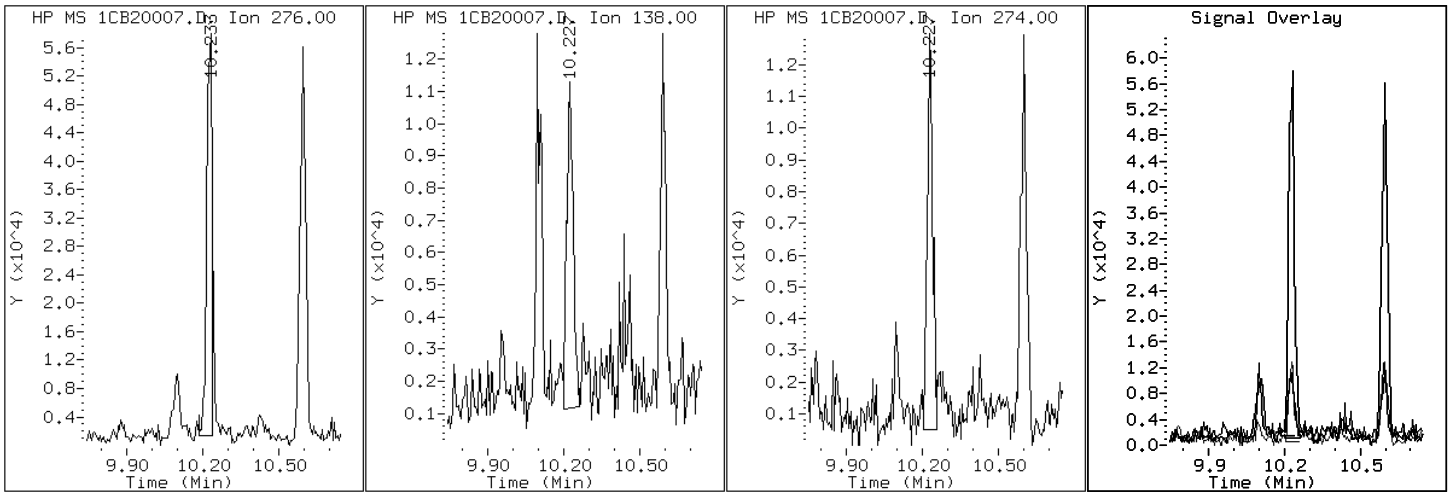
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

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



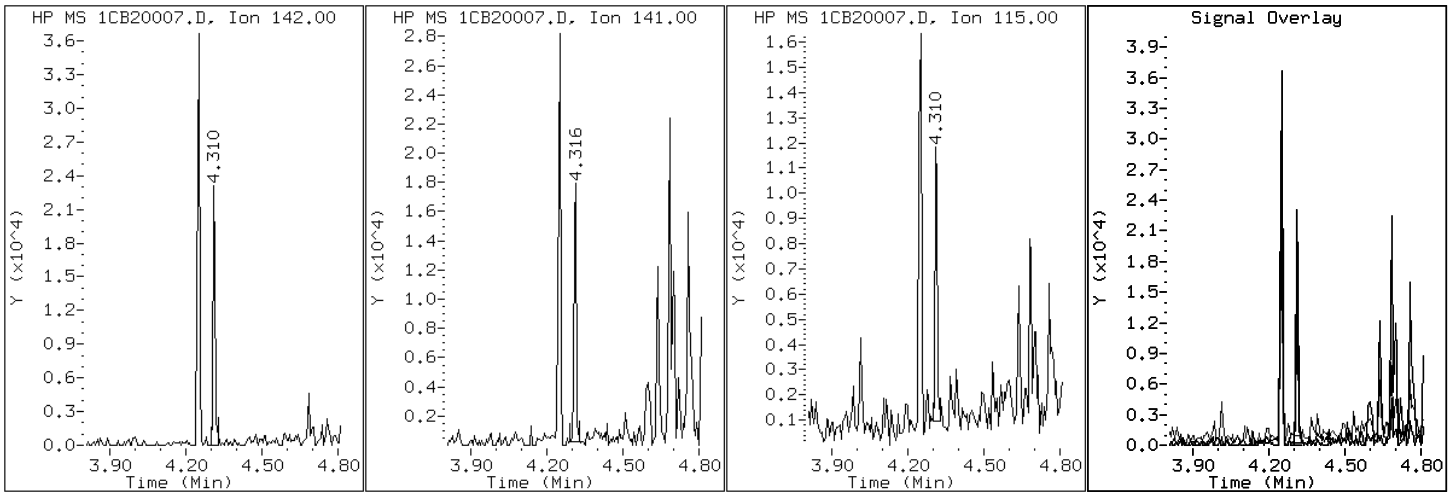
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

4 1-Methylnaphthalene



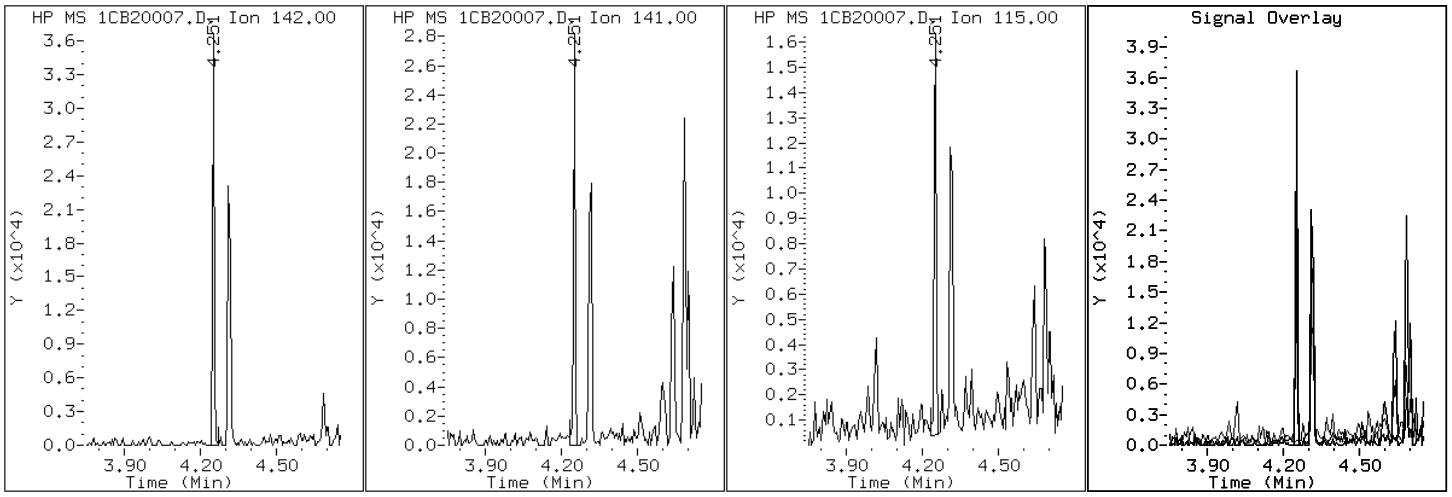
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

3 2-Methylnaphthalene



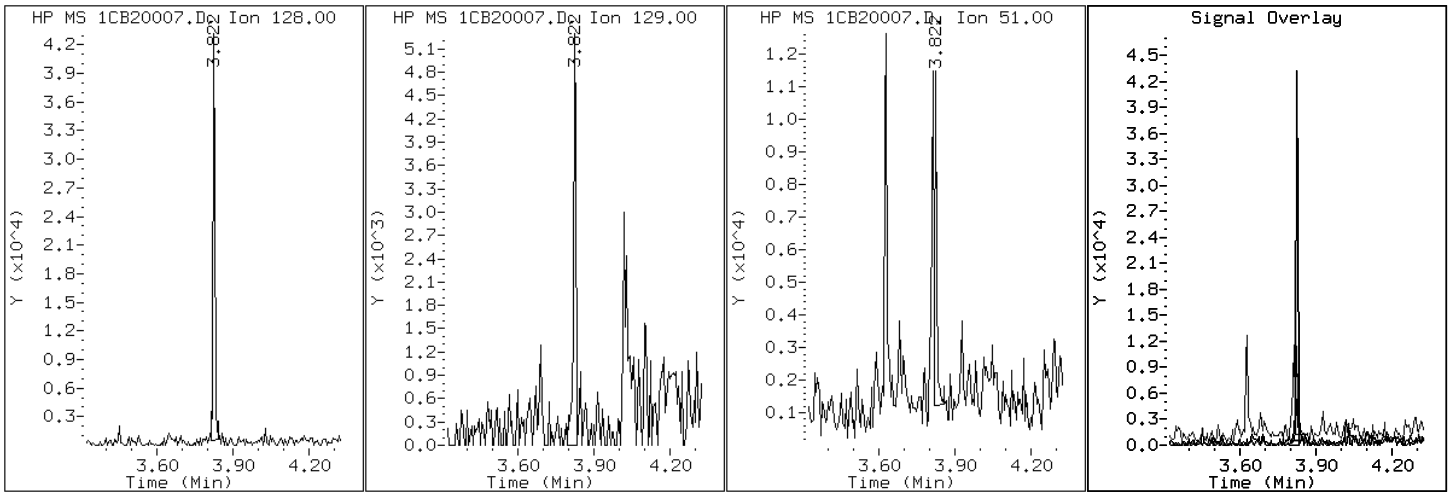
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

2 Naphthalene



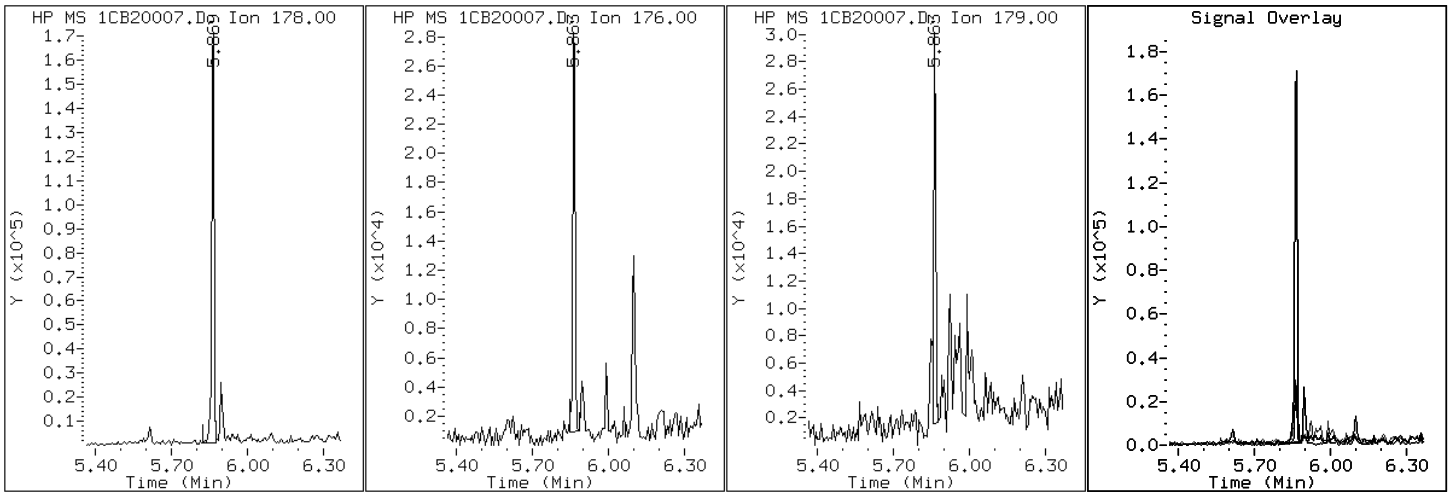
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

11 Phenanthrene



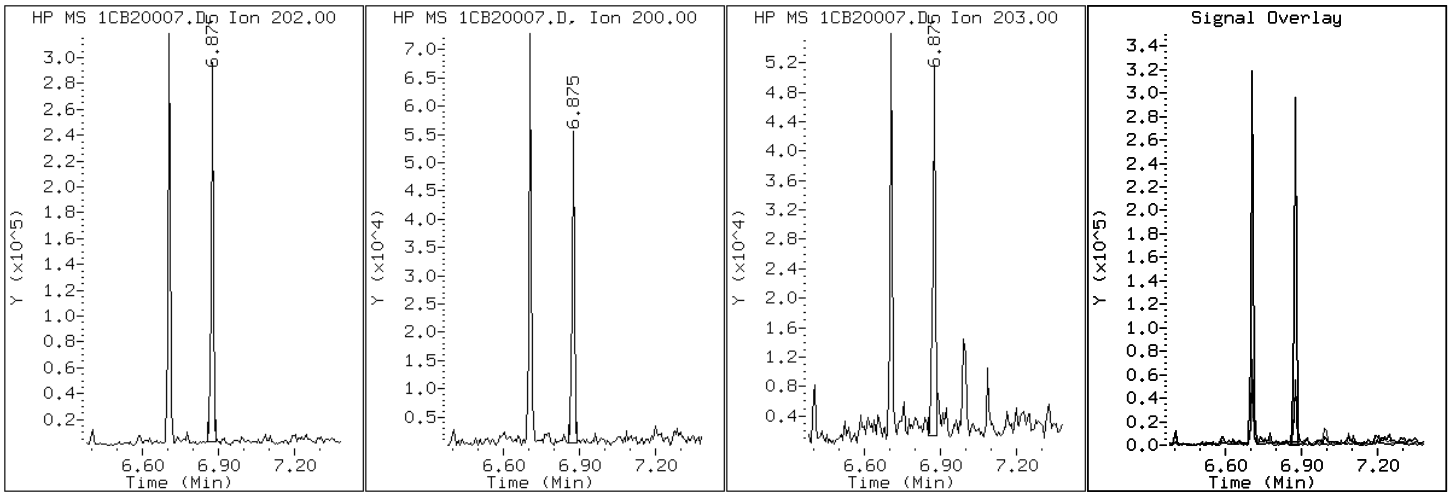
Data File: 1CB20007.D

Date: 20-FEB-2013 15:34

Client ID: CV0748GGG-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-33-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20007.D
Inj. Date and Time: 20-FEB-2013 15:34
Instrument ID: BSMC5973.i
Client ID: CV0748GGG-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

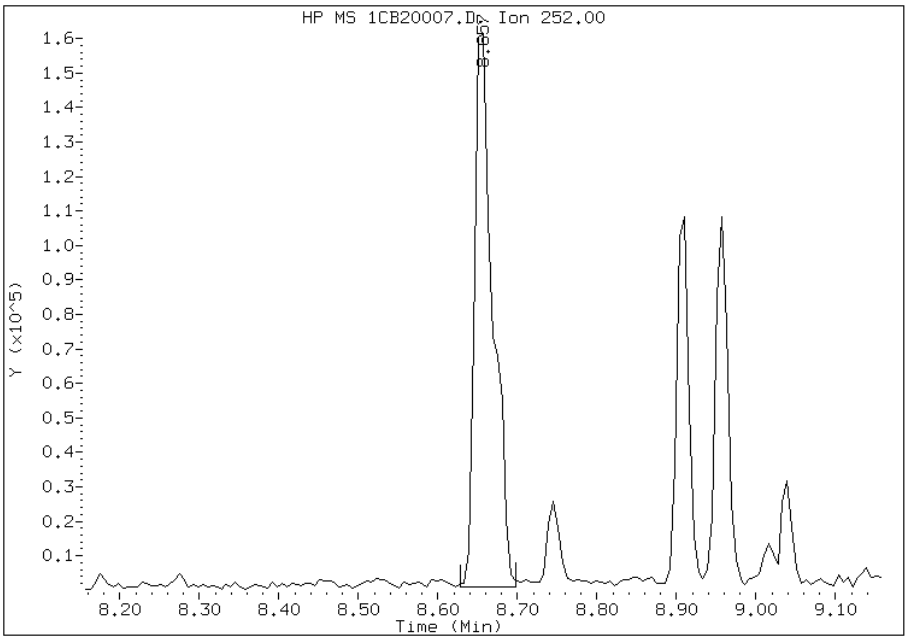
Processing Integration Results

RT: 8.66

Response: 256981

Amount: 3

Conc: 207



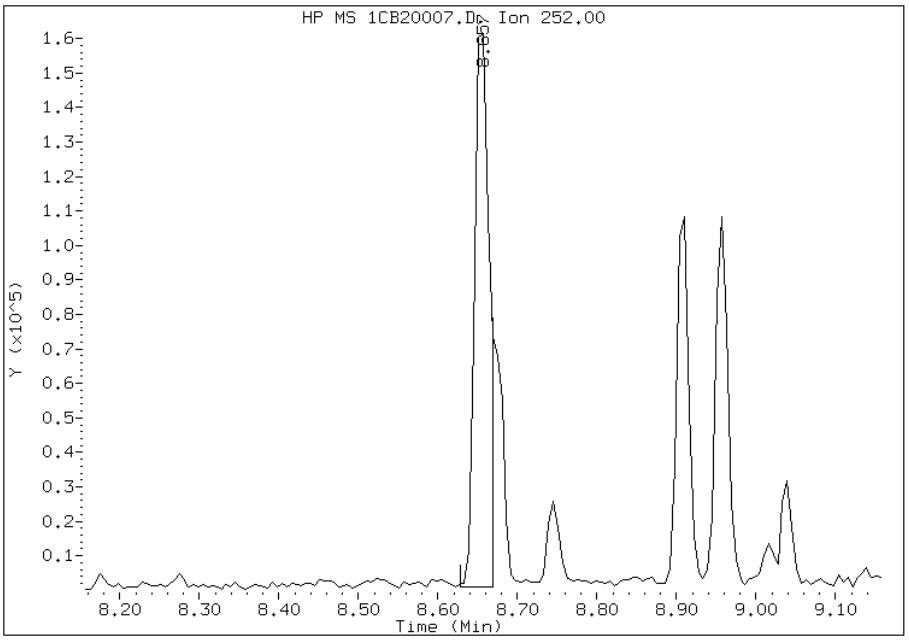
Manual Integration Results

RT: 8.66

Response: 205733

Amount: 2

Conc: 166



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20007.D
Inj. Date and Time: 20-FEB-2013 15:34
Instrument ID: BSMC5973.i
Client ID: CV0748GGG-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/21/2013

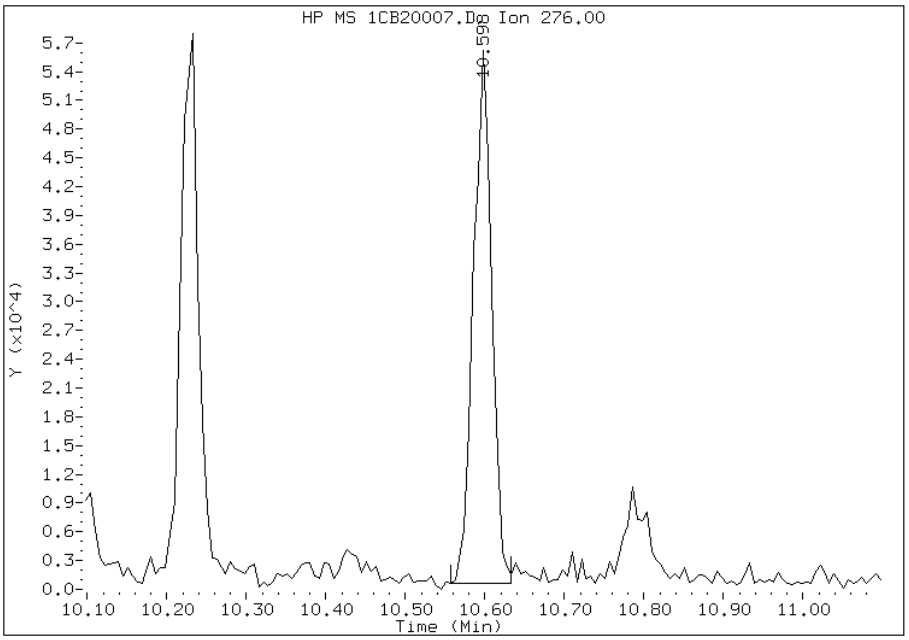
Processing Integration Results

RT: 10.60

Response: 87853

Amount: 1

Conc: 76



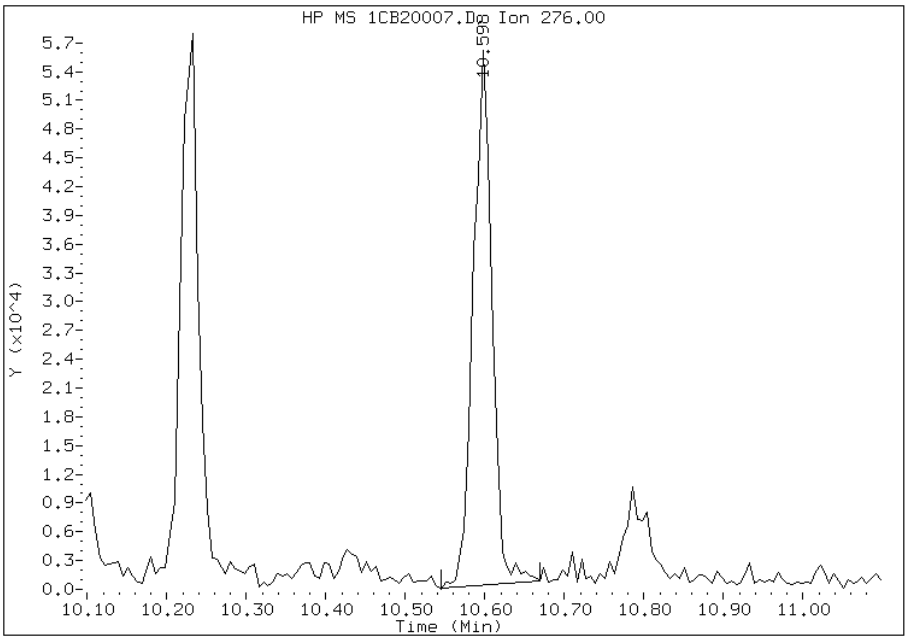
Manual Integration Results

RT: 10.60

Response: 91032

Amount: 1

Conc: 79



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20007.D
Inj. Date and Time: 20-FEB-2013 15:34
Instrument ID: BSMC5973.i
Client ID: CV0748GGG-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

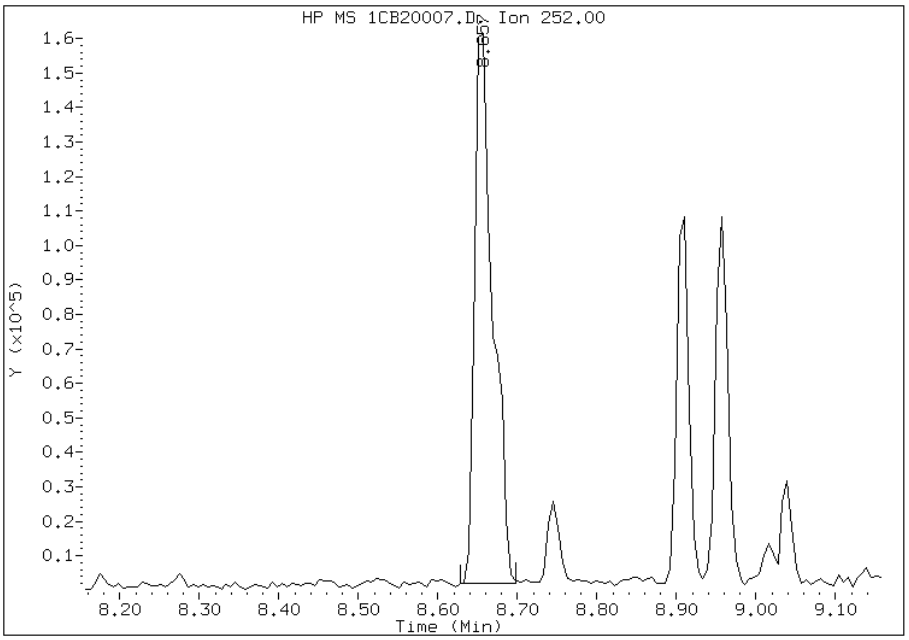
Processing Integration Results

RT: 8.66

Response: 252536

Amount: 3

Conc: 185



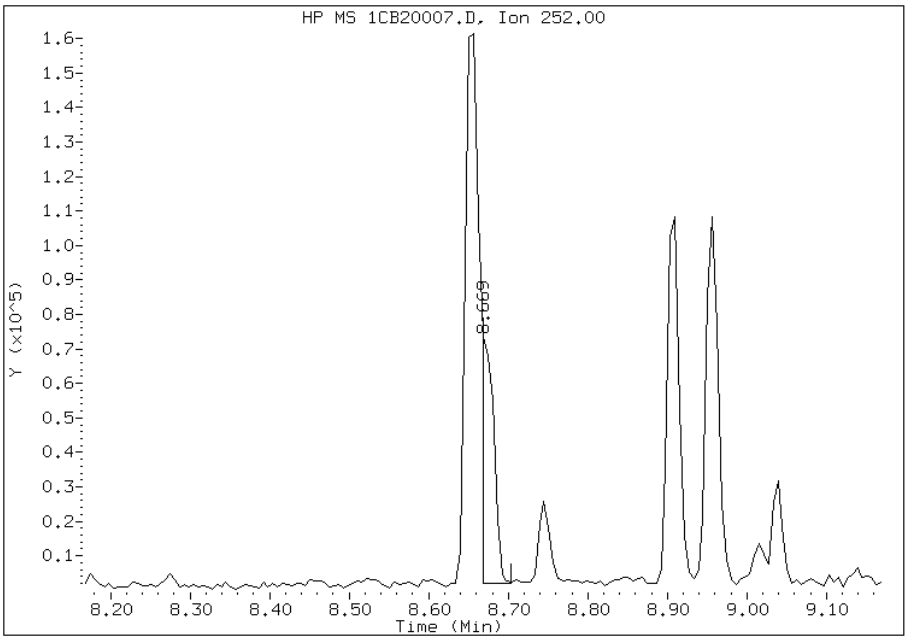
Manual Integration Results

RT: 8.67

Response: 75407

Amount: 1

Conc: 55



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20007.D
Inj. Date and Time: 20-FEB-2013 15:34
Instrument ID: BSMC5973.i
Client ID: CV0748GGG-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/21/2013

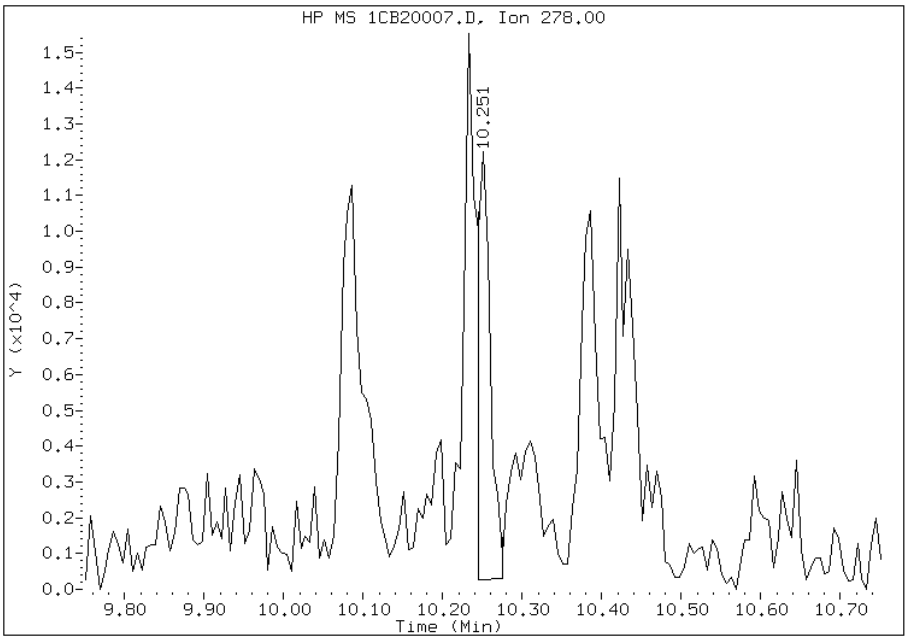
Processing Integration Results

RT: 10.25

Response: 13045

Amount: 0

Conc: 12



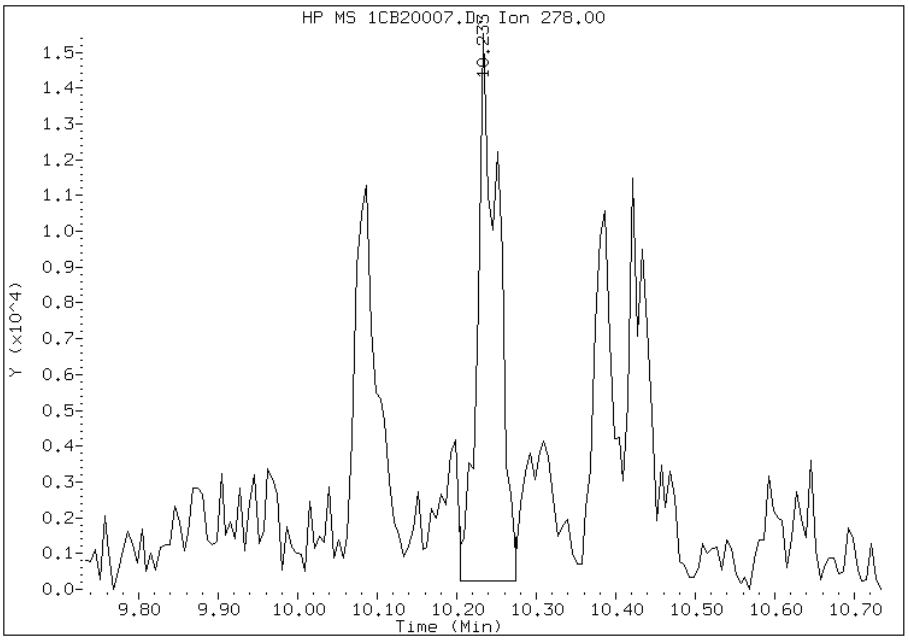
Manual Integration Results

RT: 10.23

Response: 28120

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20007.D
Inj. Date and Time: 20-FEB-2013 15:34
Instrument ID: BSMC5973.i
Client ID: CV0748GGG-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

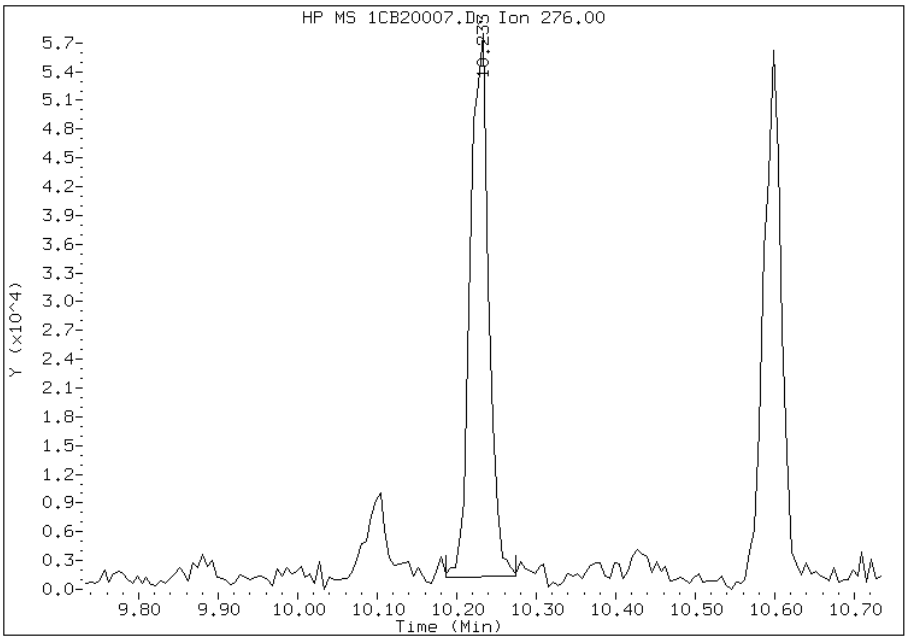
Processing Integration Results

RT: 10.23

Response: 90429

Amount: 1

Conc: 80



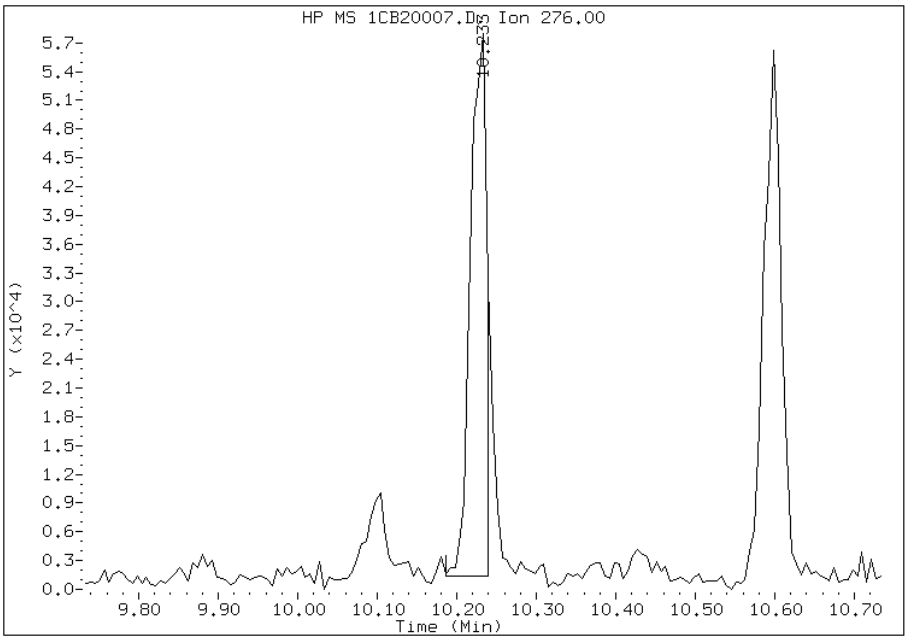
Manual Integration Results

RT: 10.23

Response: 80319

Amount: 1

Conc: 71



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748HHH-CS | Lab Sample ID: 680-87320-34

Matrix: Solid | Lab File ID: 1CB20008.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 15:45

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

Sample wt/vol: 15.13(g) | Date Analyzed: 02/20/2013 15:52

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

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

% Moisture: 20.0 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	99
208-96-8	Acenaphthylene	42	J	200	25
120-12-7	Anthracene	94		42	21
56-55-3	Benzo[a]anthracene	440		40	19
50-32-8	Benzo[a]pyrene	420		52	26
205-99-2	Benzo[b]fluoranthene	710		60	30
191-24-2	Benzo[g,h,i]perylene	370		99	22
207-08-9	Benzo[k]fluoranthene	220		40	18
218-01-9	Chrysene	430		45	22
53-70-3	Dibenz(a,h)anthracene	93	J	99	20
206-44-0	Fluoranthene	770		99	20
86-73-7	Fluorene	48	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	270		99	35
90-12-0	1-Methylnaphthalene	110	J	200	22
91-57-6	2-Methylnaphthalene	140	J	200	35
91-20-3	Naphthalene	100	J	200	22
85-01-8	Phenanthrene	440		40	19
129-00-0	Pyrene	630		99	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20008.D
Lab Smp Id: 680-87320-A-34-A Client Smp ID: CV0748HHH-CS
Inj Date : 20-FEB-2013 15:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-34-a
Misc Info : 680-87320-A-34-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: 8
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	15.130	Weight Extracted
M	20.016	% 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)	1952036	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1469376	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2688637	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	86098	2.18552	722.3930
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3003347	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2923455	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	15665	0.30284	100.1004
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	14457	0.42984	142.0760
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	10507	0.34348	113.5338
5 Acenaphthylene	152	4.810	4.810	(0.982)	7378	0.12621	41.7169
9 Fluorene	166	5.239	5.239	(1.070)	6865	0.14587	48.2136
11 Phenanthrene	178	5.868	5.869	(1.003)	105698	1.31704	435.3295
12 Anthracene	178	5.898	5.904	(1.008)	20516	0.28374	93.7852
13 Carbazole	167	6.010	6.010	(1.027)	14317	0.22795	75.3465

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)	182725	2.33010	770.1814
16 Pyrene	202	6.874	6.880	(0.882)	151424	1.89383	625.9783
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	109229	1.31885	435.9263
19 Chrysene	228	7.815	7.827	(1.002)	111012	1.29762	428.9109
20 Benzo(b)fluoranthene	252	8.651	8.662	(0.960)	153216	2.13769	706.5827(M)
21 Benzo(k)fluoranthene	252	8.668	8.686	(0.962)	51652	0.65415	216.2195(QM)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	86337	1.26591	418.4287
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	52968	0.80860	267.2700(M)
25 Dibenzo(a,h)anthracene	278	10.239	10.262	(1.136)	17419	0.28198	93.2051
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	74049	1.11283	367.8304(M)

QC Flag Legend

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

Data File: 1CB20008.D

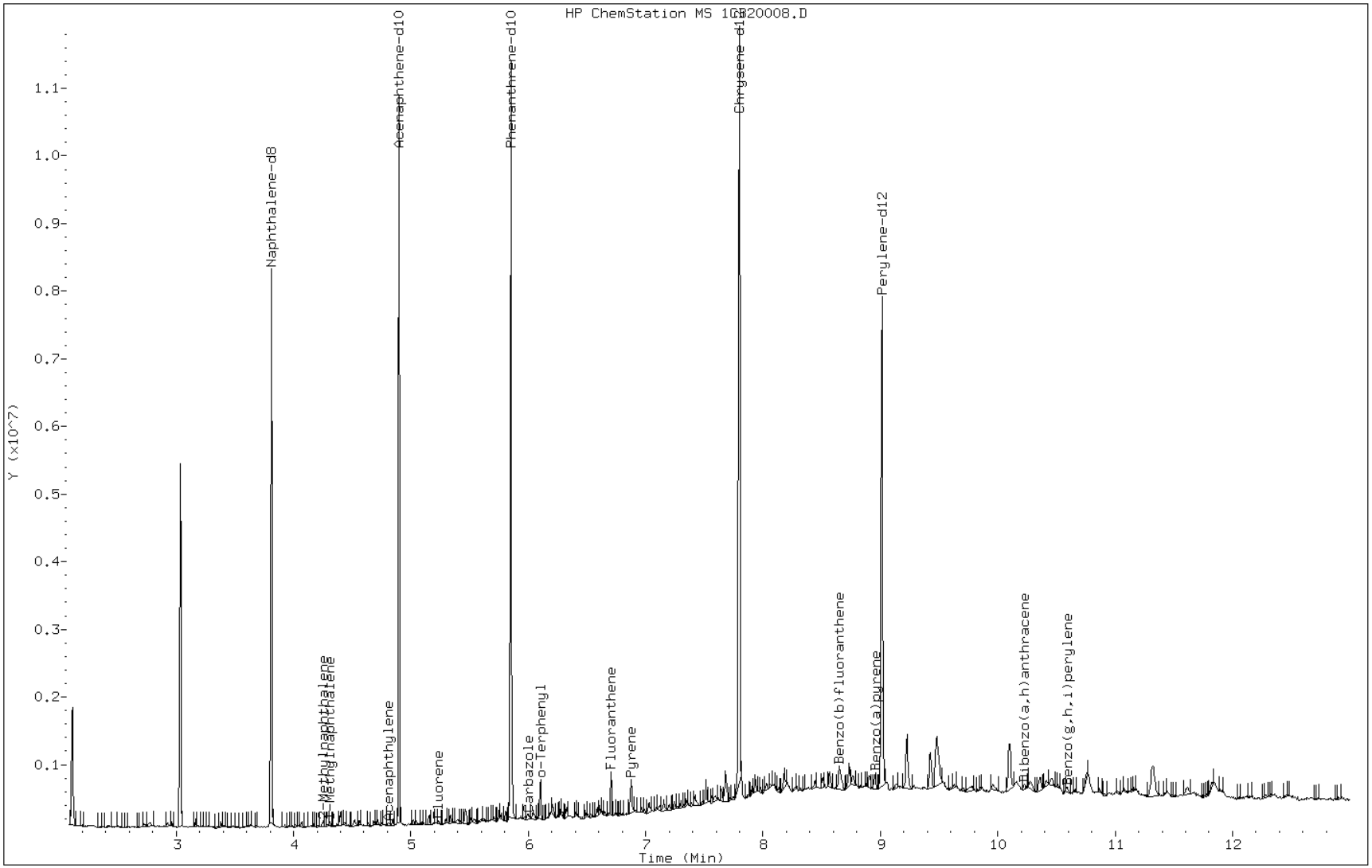
Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a

Operator: SCC



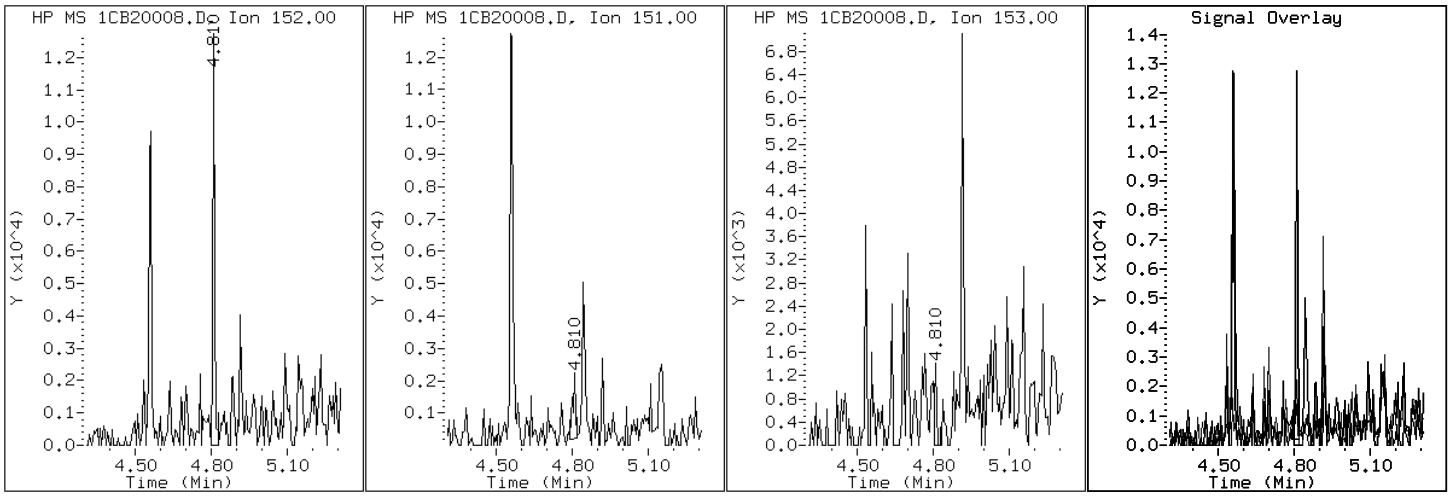
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

5 Acenaphthylene



Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

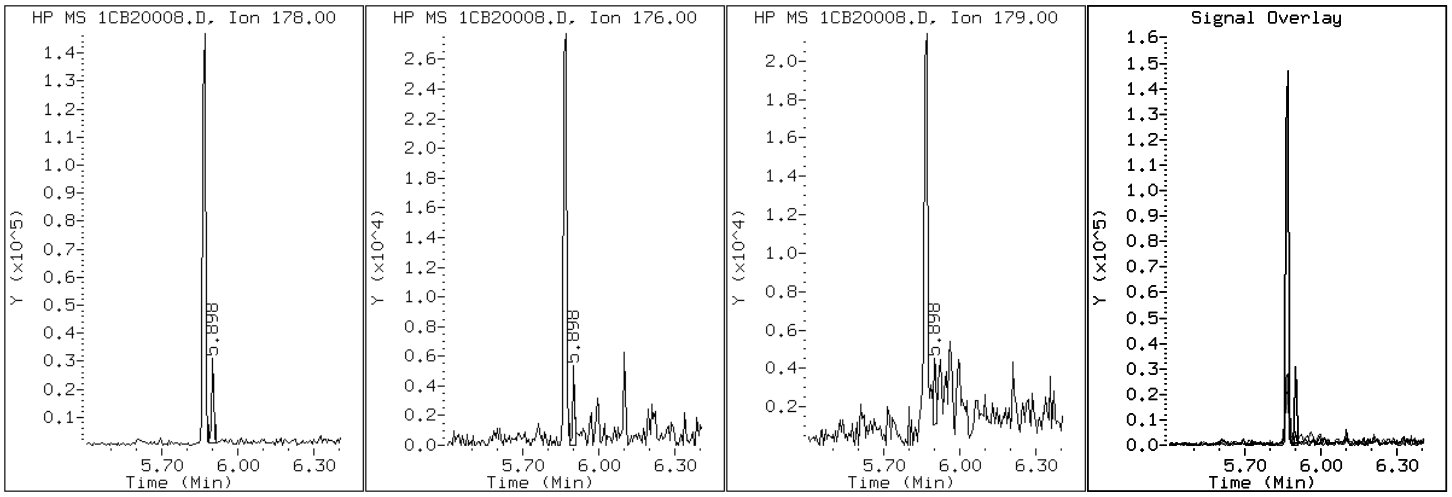
Client ID: CV0748HHH-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a

Operator: SCC

12 Anthracene



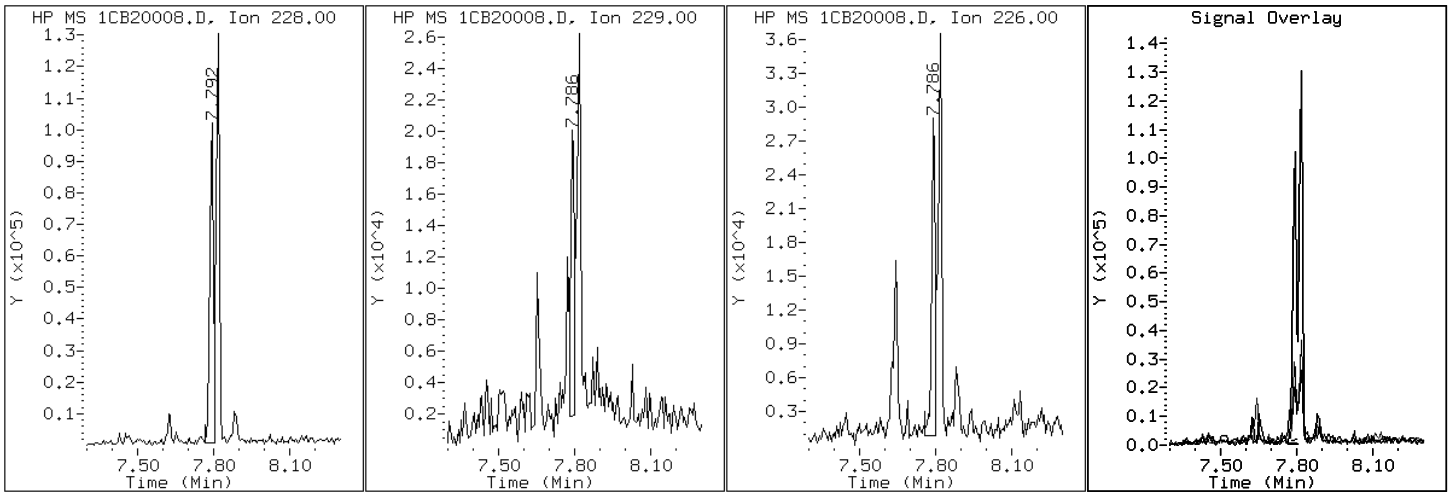
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

17 Benzo(a)anthracene



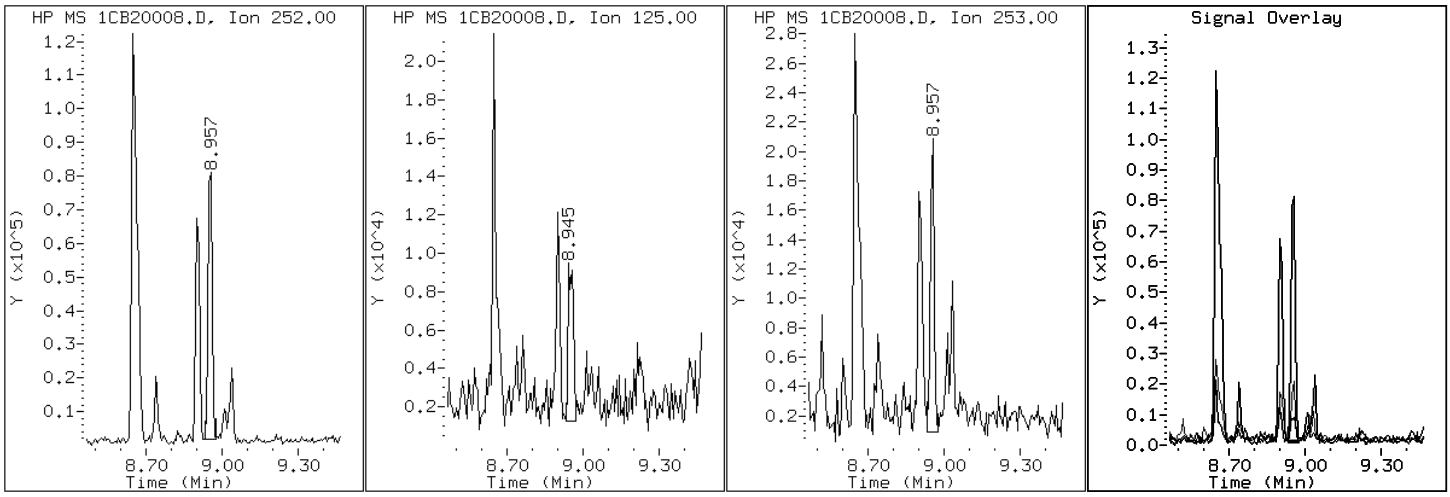
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

22 Benzo(a)pyrene



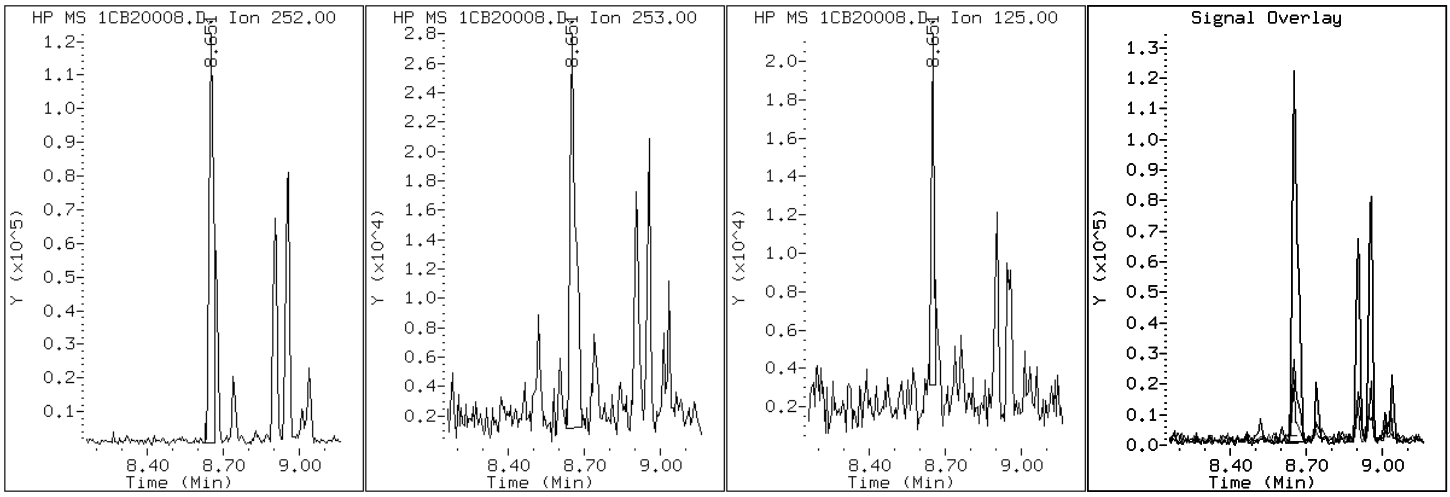
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

20 Benzo(b)fluoranthene



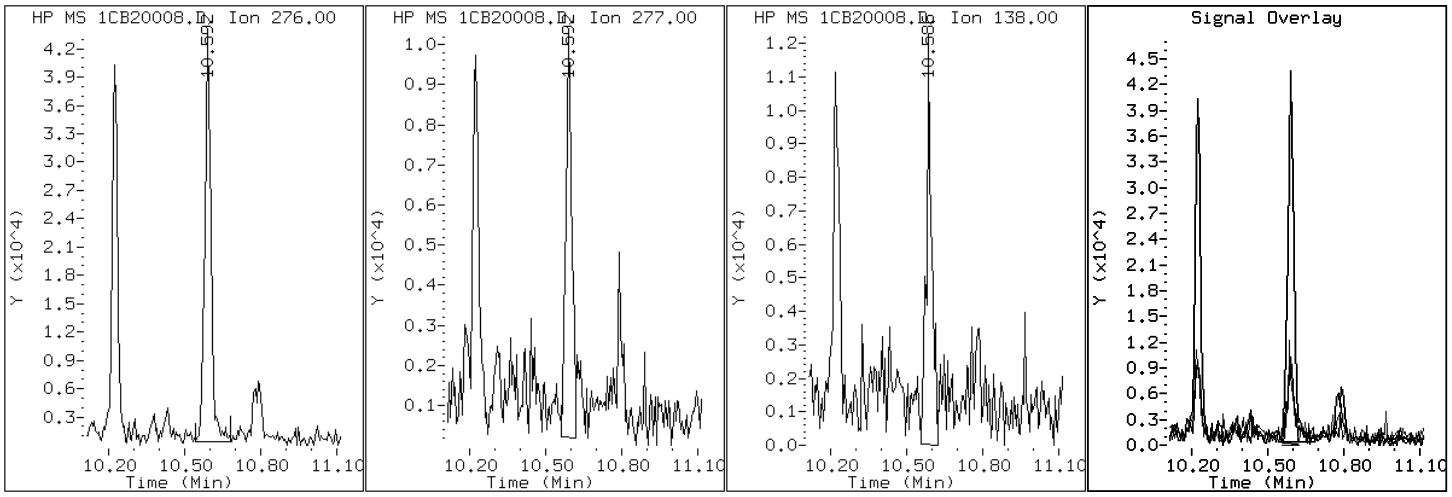
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

26 Benzo(g,h,i)perylene



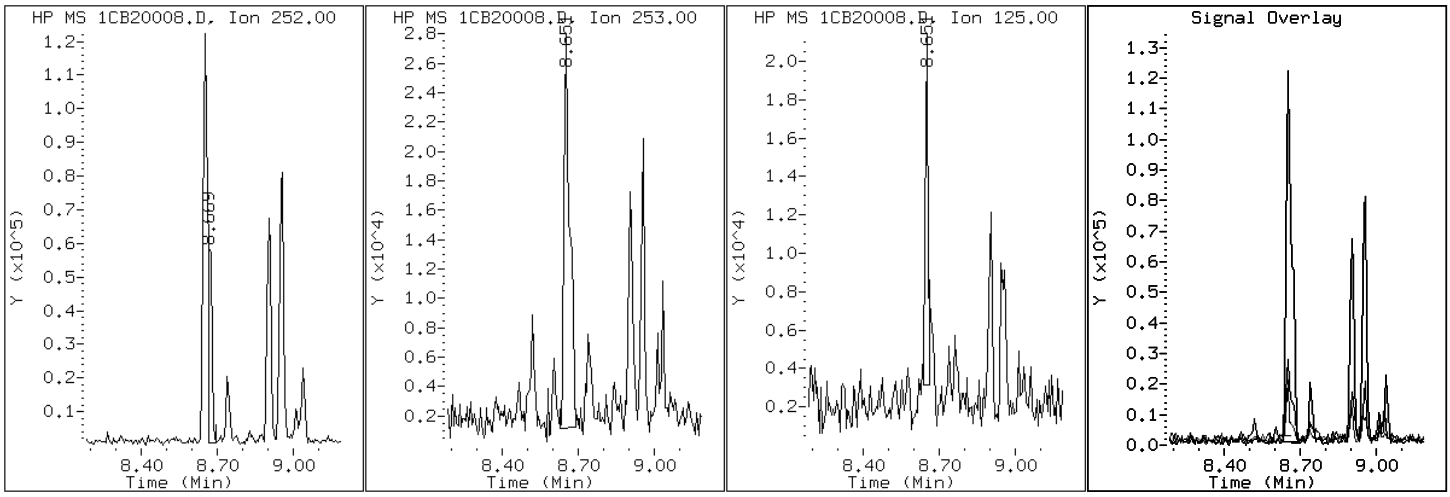
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

21 Benzo(k)fluoranthene



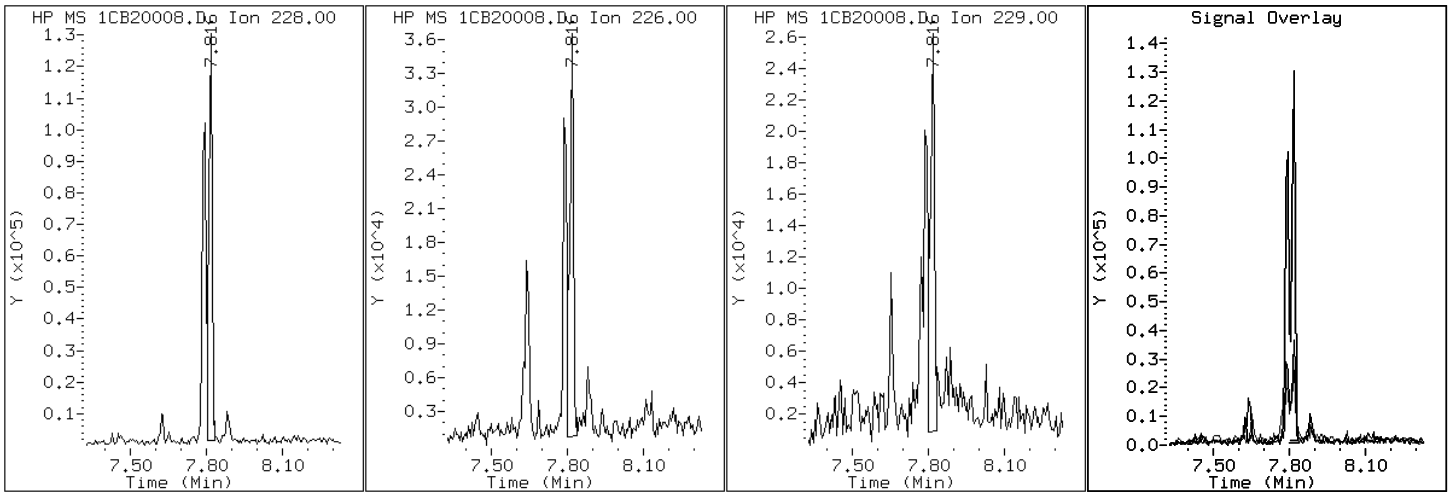
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

19 Chrysene



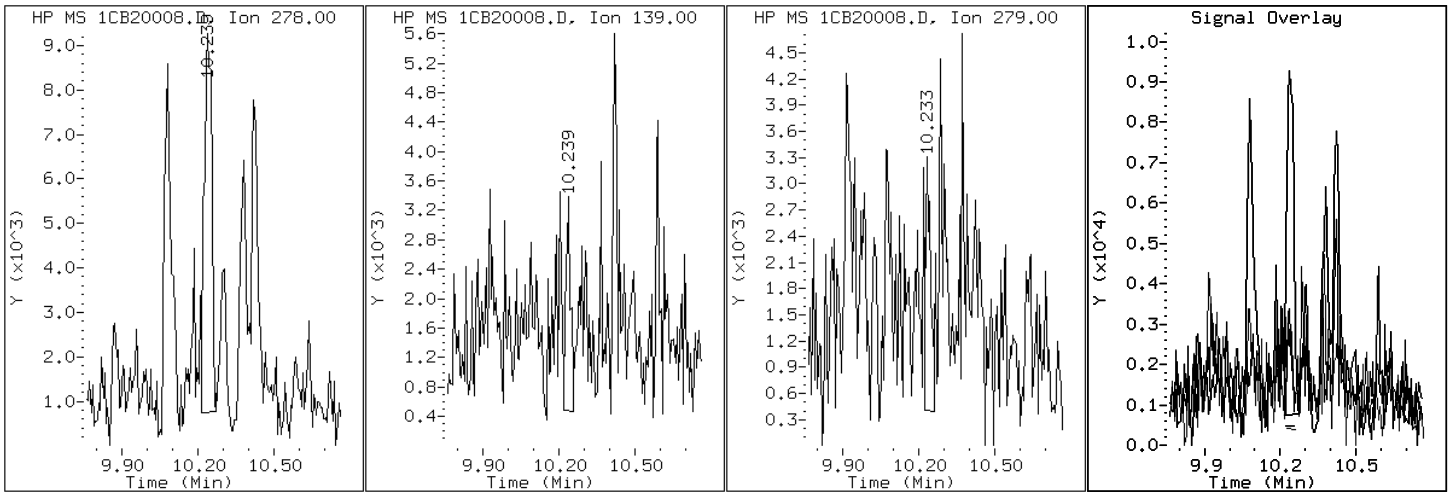
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

25 Dibenzo(a,h)anthracene



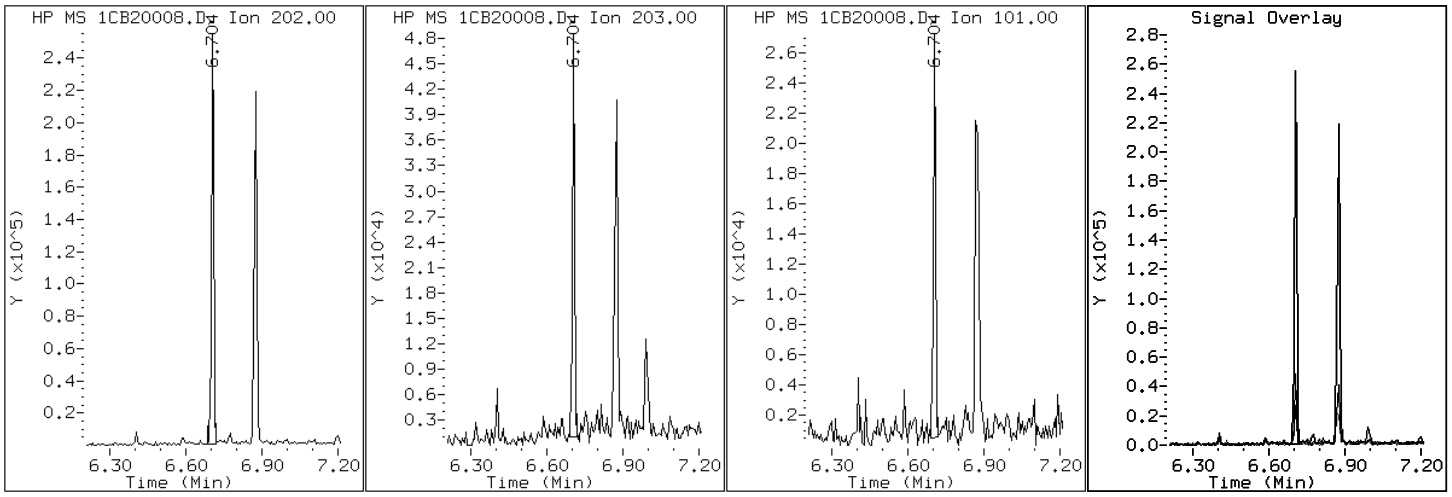
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

15 Fluoranthene



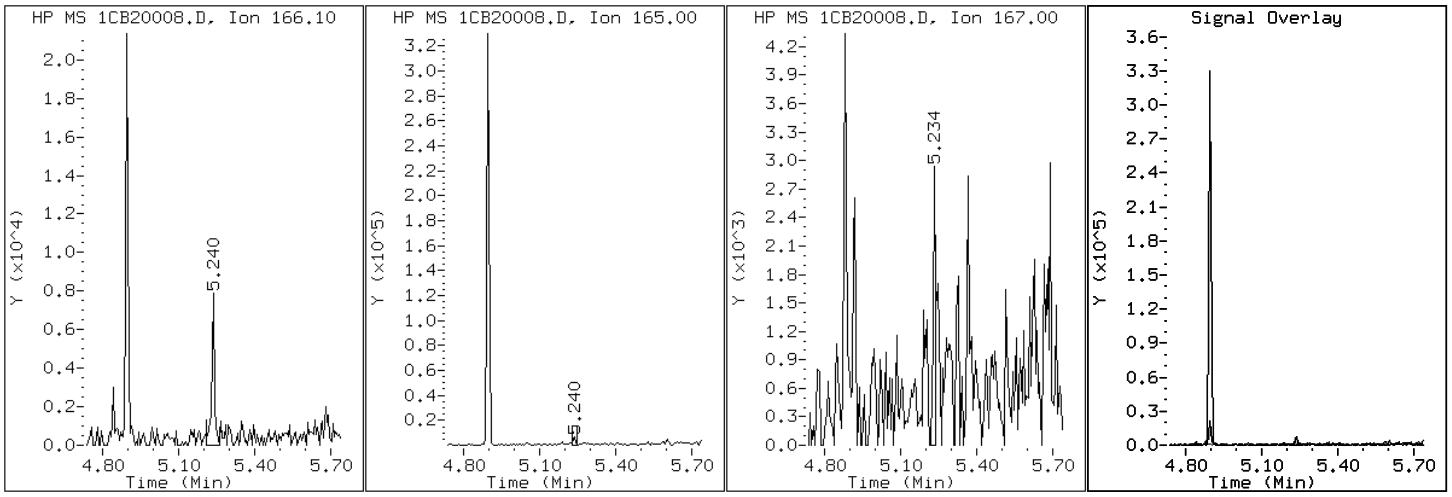
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

9 Fluorene



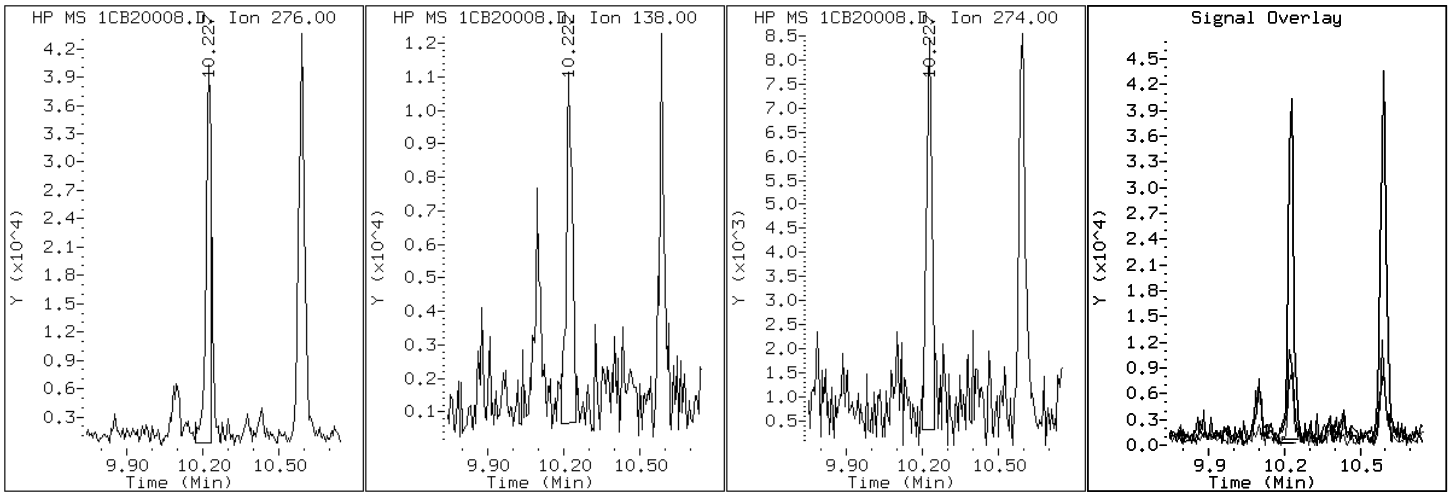
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

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



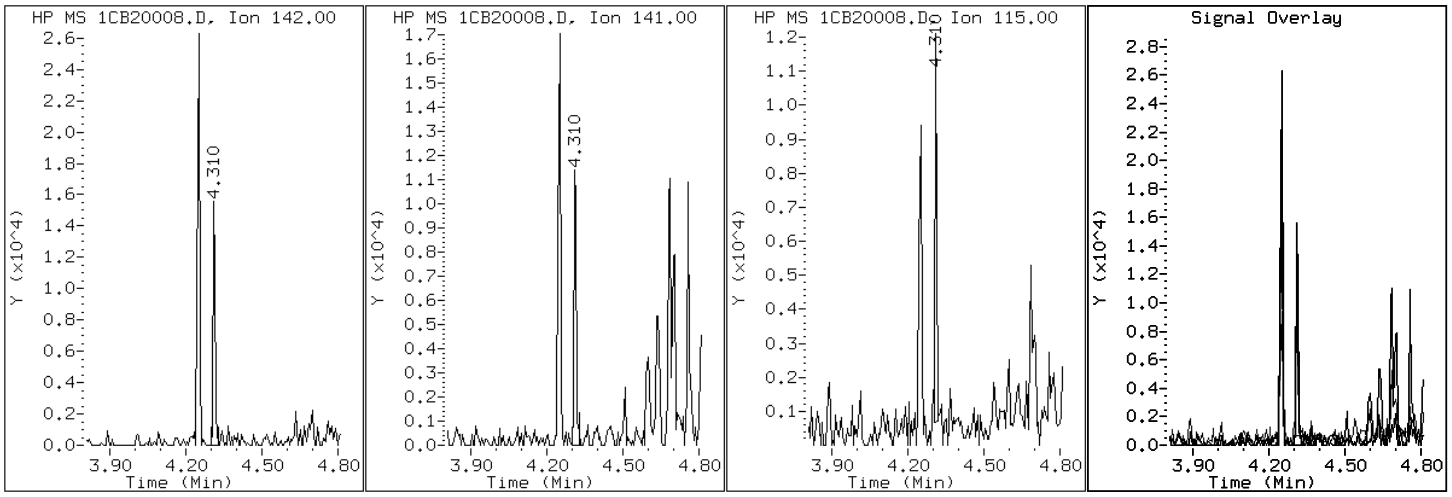
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

4 1-Methylnaphthalene



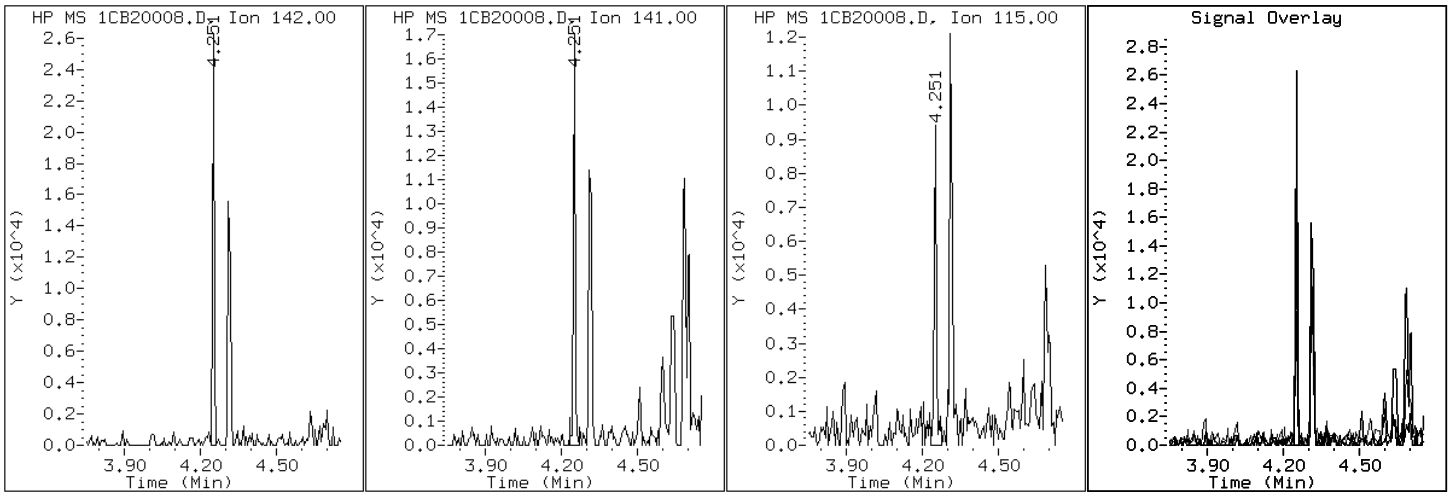
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

3 2-Methylnaphthalene



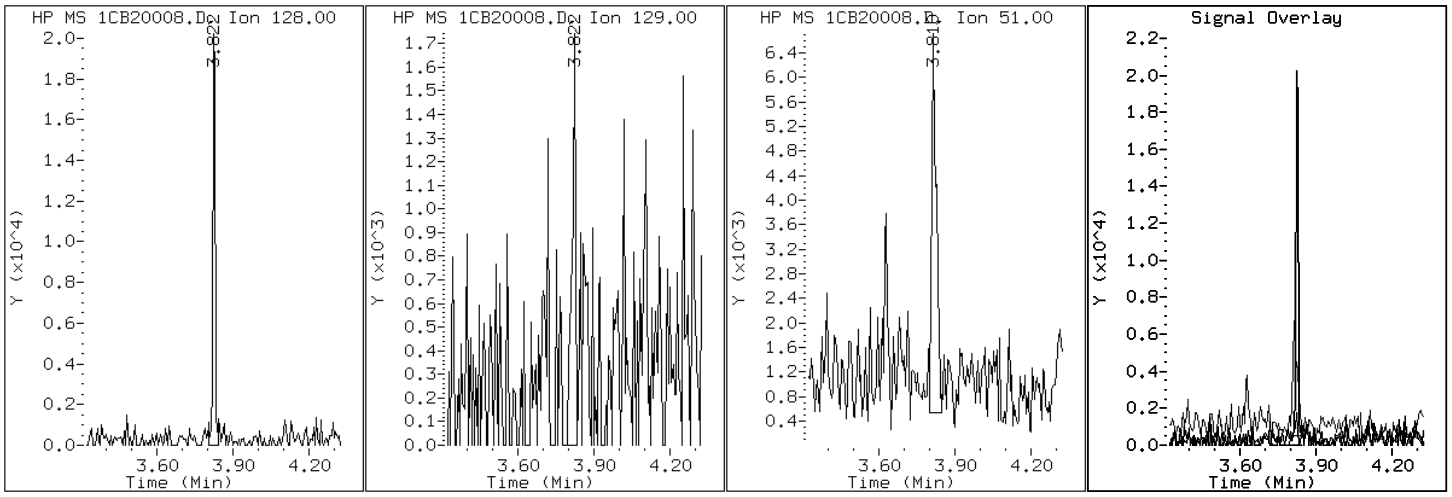
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

2 Naphthalene



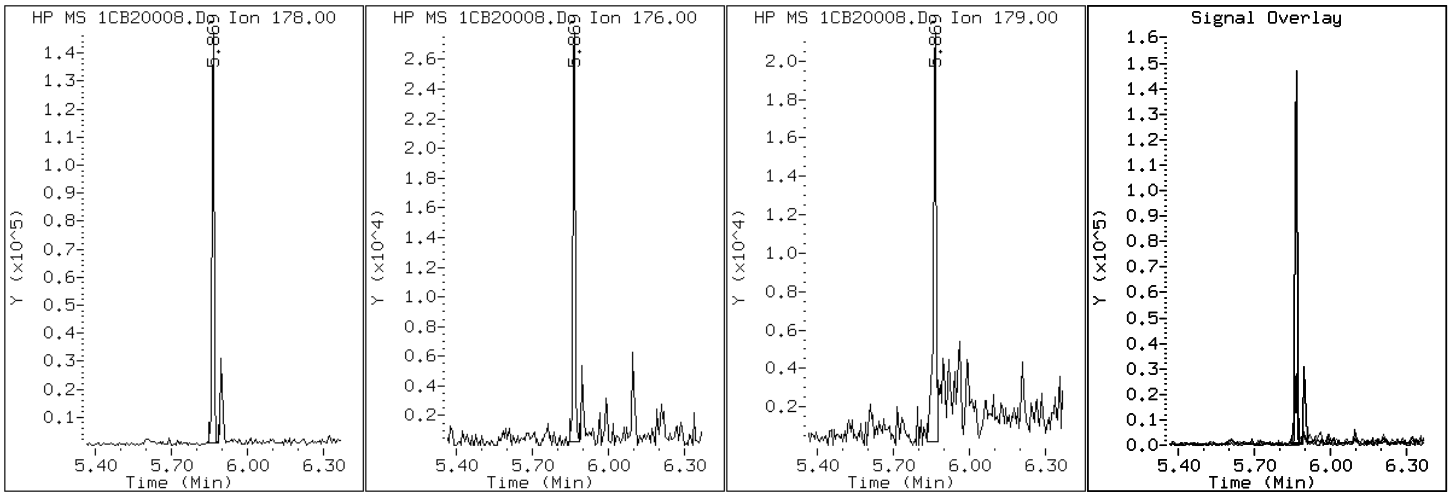
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

11 Phenanthrene



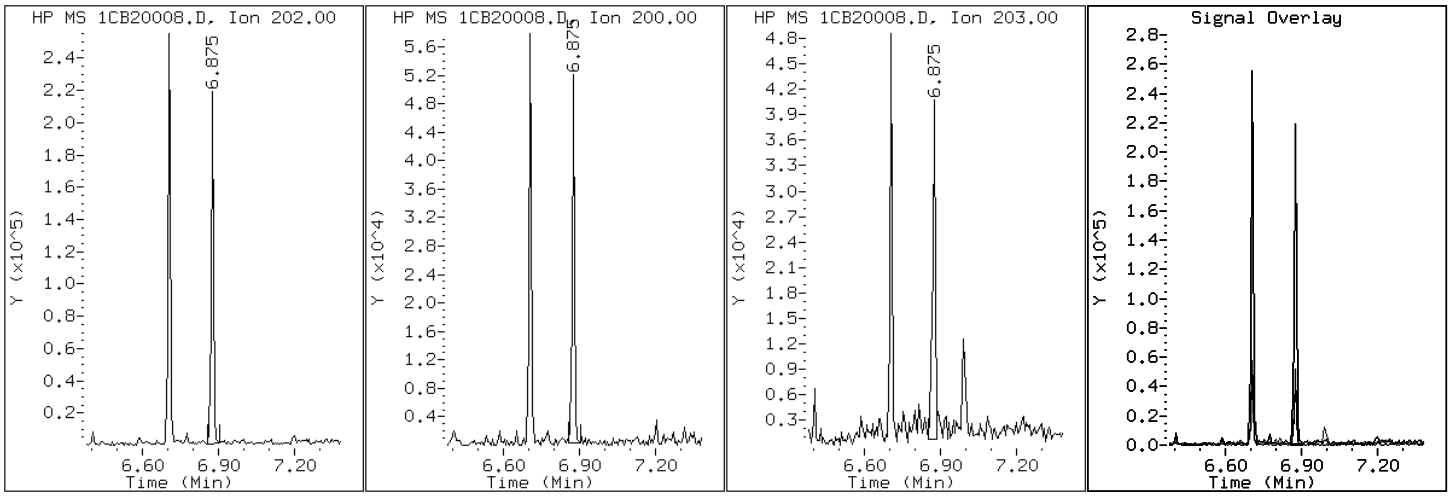
Data File: 1CB20008.D

Date: 20-FEB-2013 15:52

Client ID: CV0748HHH-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-34-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20008.D
Inj. Date and Time: 20-FEB-2013 15:52
Instrument ID: BSMC5973.i
Client ID: CV0748HHH-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

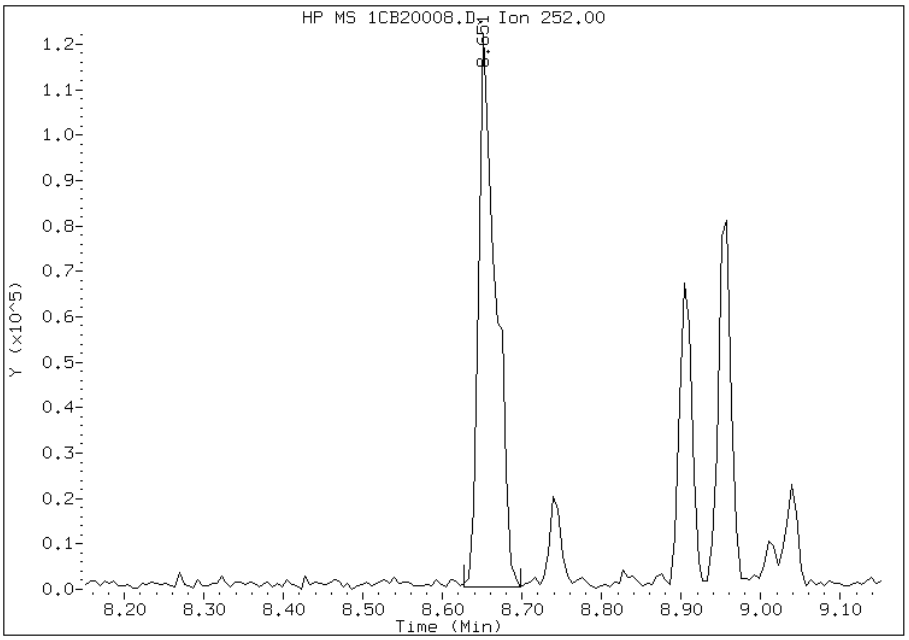
Processing Integration Results

RT: 8.65

Response: 184505

Amount: 3

Conc: 851



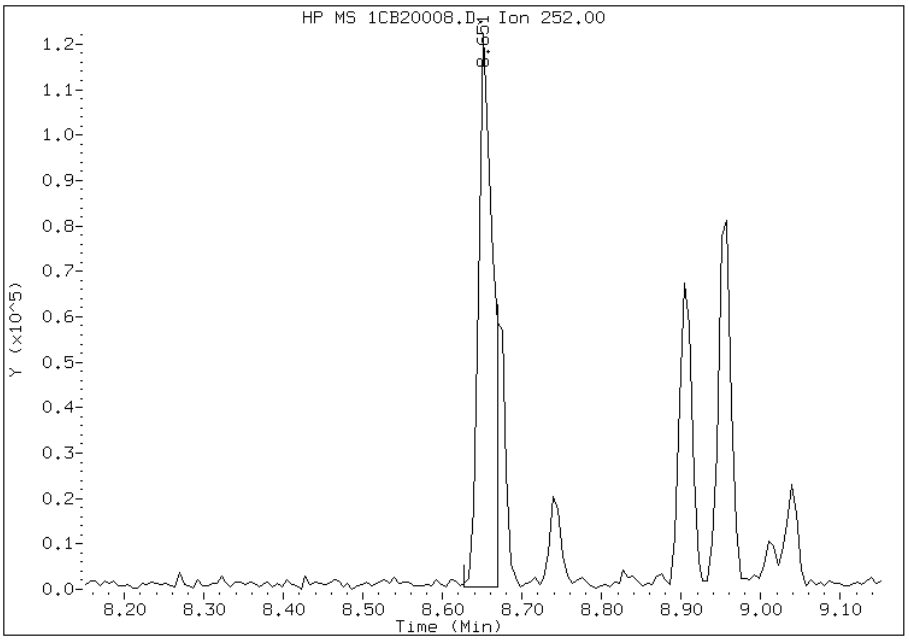
Manual Integration Results

RT: 8.65

Response: 153216

Amount: 2

Conc: 707



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:57
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20008.D
Inj. Date and Time: 20-FEB-2013 15:52
Instrument ID: BSMC5973.i
Client ID: CV0748HHH-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/21/2013

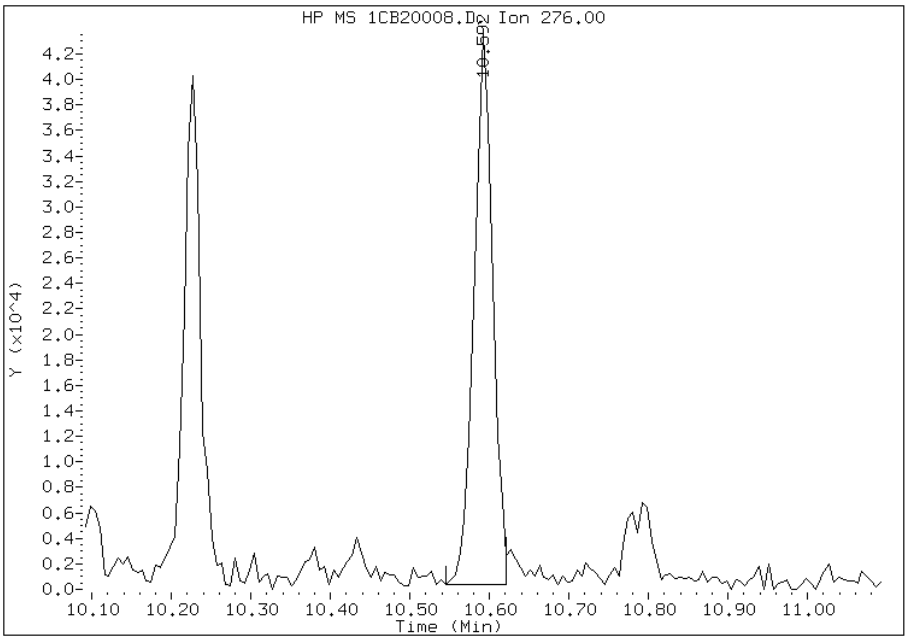
Processing Integration Results

RT: 10.59

Response: 70062

Amount: 1

Conc: 348



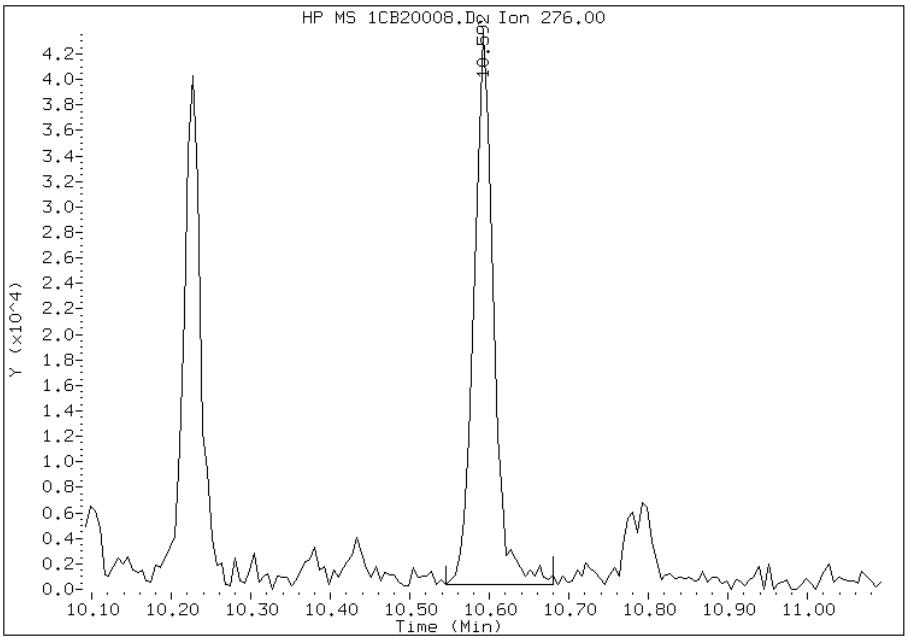
Manual Integration Results

RT: 10.59

Response: 74049

Amount: 1

Conc: 368



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20008.D
Inj. Date and Time: 20-FEB-2013 15:52
Instrument ID: BSMC5973.i
Client ID: CV0748HHH-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

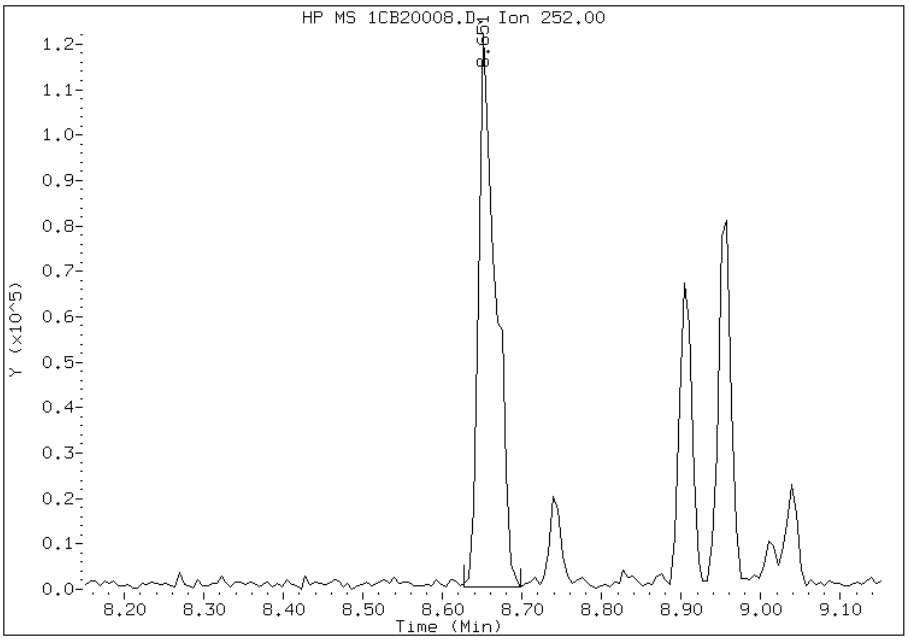
Processing Integration Results

RT: 8.65

Response: 184619

Amount: 2

Conc: 773



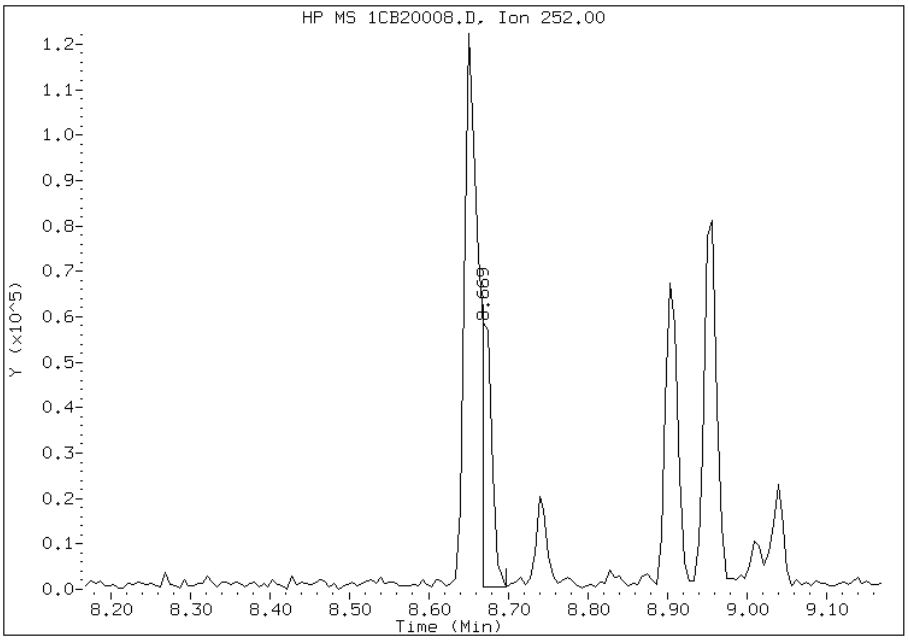
Manual Integration Results

RT: 8.67

Response: 51652

Amount: 1

Conc: 216



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20008.D
Inj. Date and Time: 20-FEB-2013 15:52
Instrument ID: BSMC5973.i
Client ID: CV0748HHH-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

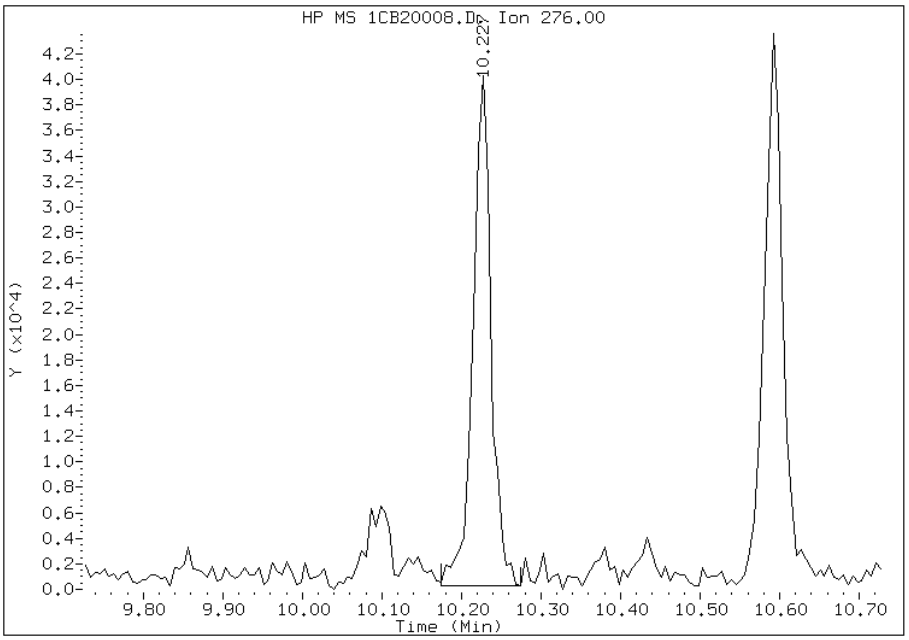
Processing Integration Results

RT: 10.23

Response: 62895

Amount: 1

Conc: 317



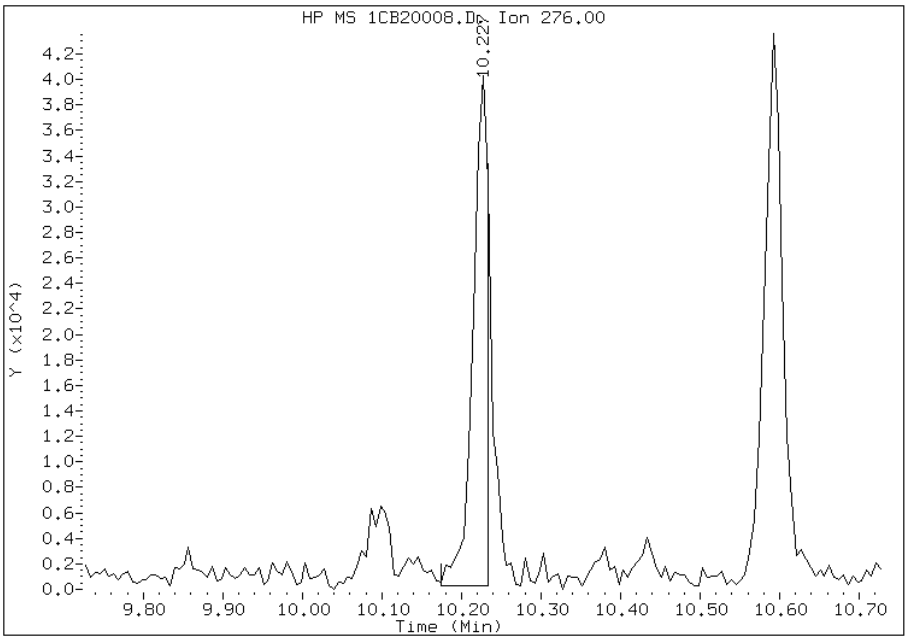
Manual Integration Results

RT: 10.23

Response: 52968

Amount: 1

Conc: 267



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0797A-CS | Lab Sample ID: 680-87320-35

Matrix: Solid | Lab File ID: 1CB20009.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 14:20

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

Sample wt/vol: 14.94(g) | Date Analyzed: 02/20/2013 16:10

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

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

% Moisture: 1.5 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	410	U	410	82
208-96-8	Acenaphthylene	85	J	160	20
120-12-7	Anthracene	100		34	17
56-55-3	Benzo[a]anthracene	510		33	16
50-32-8	Benzo[a]pyrene	470		42	21
205-99-2	Benzo[b]fluoranthene	830		50	25
191-24-2	Benzo[g,h,i]perylene	310		82	18
207-08-9	Benzo[k]fluoranthene	260		33	15
218-01-9	Chrysene	640		37	18
53-70-3	Dibenz(a,h)anthracene	100		82	17
206-44-0	Fluoranthene	1000		82	16
86-73-7	Fluorene	42	J	82	17
193-39-5	Indeno[1,2,3-cd]pyrene	290		82	29
90-12-0	1-Methylnaphthalene	110	J	160	18
91-57-6	2-Methylnaphthalene	120	J	160	29
91-20-3	Naphthalene	120	J	160	18
85-01-8	Phenanthrene	550		33	16
129-00-0	Pyrene	880		82	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	106		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20009.D
Lab Smp Id: 680-87320-A-35-A Client Smp ID: CV0797A-CS
Inj Date : 20-FEB-2013 16:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-35-a
Misc Info : 680-87320-A-35-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: 9
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	1.483	% 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)	1923976	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1450370	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2745798	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	106263	2.64124	717.8051
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	2986835	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2998126	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	22606	0.44340	120.5030
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	14224	0.42908	116.6092
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	12028	0.39894	108.4197
5 Acenaphthylene	152	4.815	4.810	(0.983)	18078	0.31330	85.1450
9 Fluorene	166	5.239	5.239	(1.070)	7146	0.15383	41.8049
11 Phenanthrene	178	5.868	5.869	(1.003)	166437	2.03070	551.8807
12 Anthracene	178	5.898	5.904	(1.008)	27923	0.37814	102.7656
13 Carbazole	167	6.004	6.010	(1.026)	19188	0.29915	81.2990

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)	298915	3.73240	1014.3475
16 Pyrene	202	6.874	6.880	(0.882)	256180	3.22171	875.5572
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	154808	1.87951	510.7910
19 Chrysene	228	7.815	7.827	(1.002)	201279	2.36577	642.9399
20 Benzo(b)fluoranthene	252	8.650	8.662	(0.960)	225223	3.06408	832.7192
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	77433	0.95623	259.8728(Q)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	119823	1.71314	465.5771
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	71968	1.07128	291.1408(M)
25 Dibenzo(a,h)anthracene	278	10.244	10.262	(1.136)	24445	0.38587	104.8658
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	77538	1.13624	308.7948

QC Flag Legend

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

Data File: 1CB20009.D

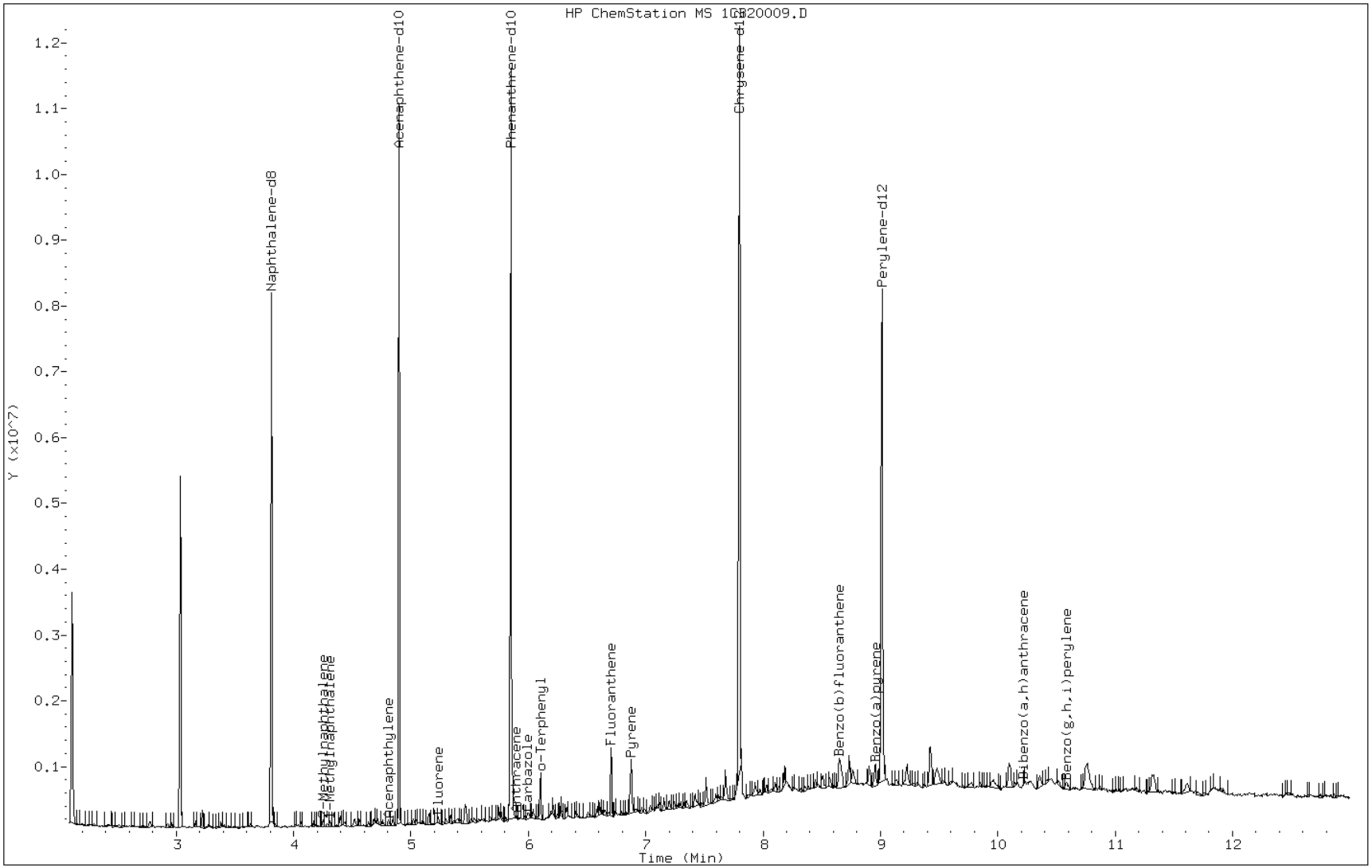
Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a

Operator: SCC



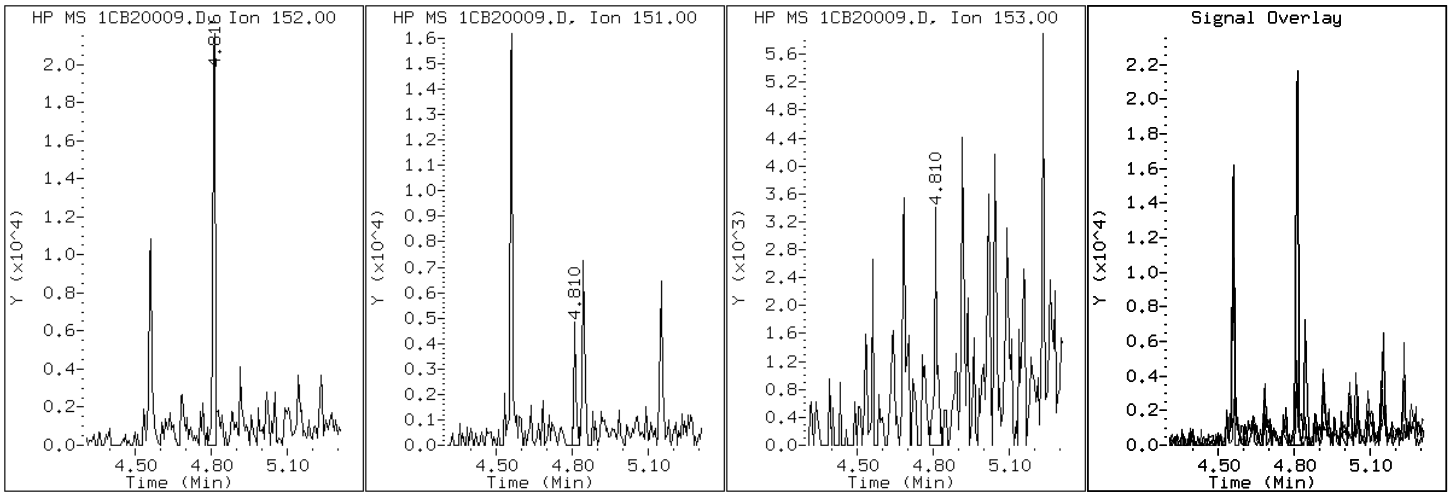
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

5 Acenaphthylene



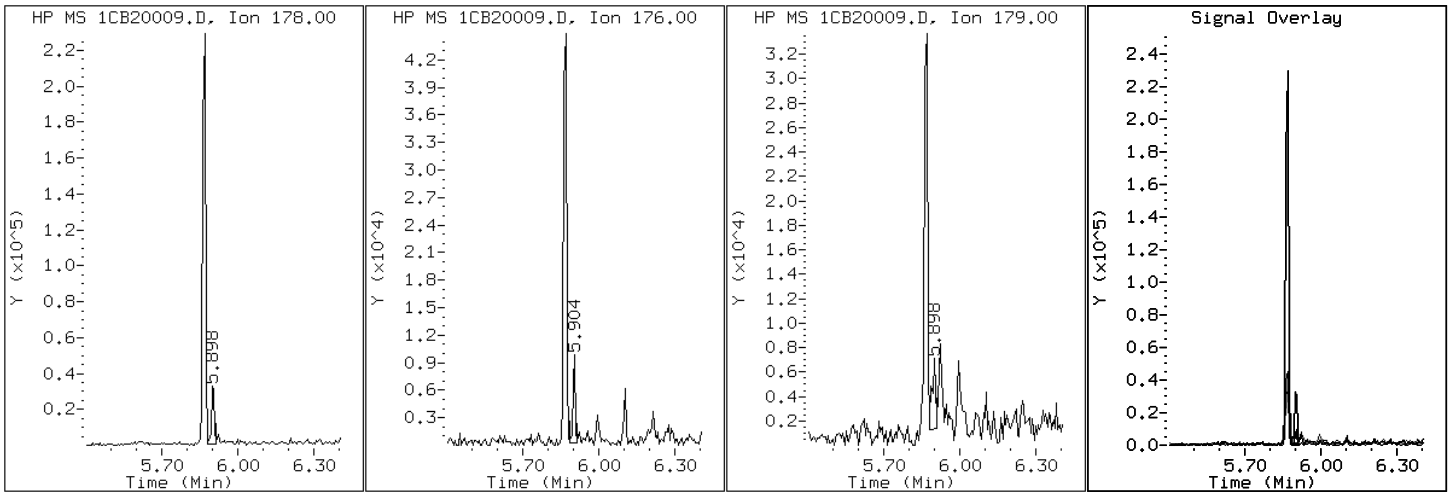
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

12 Anthracene



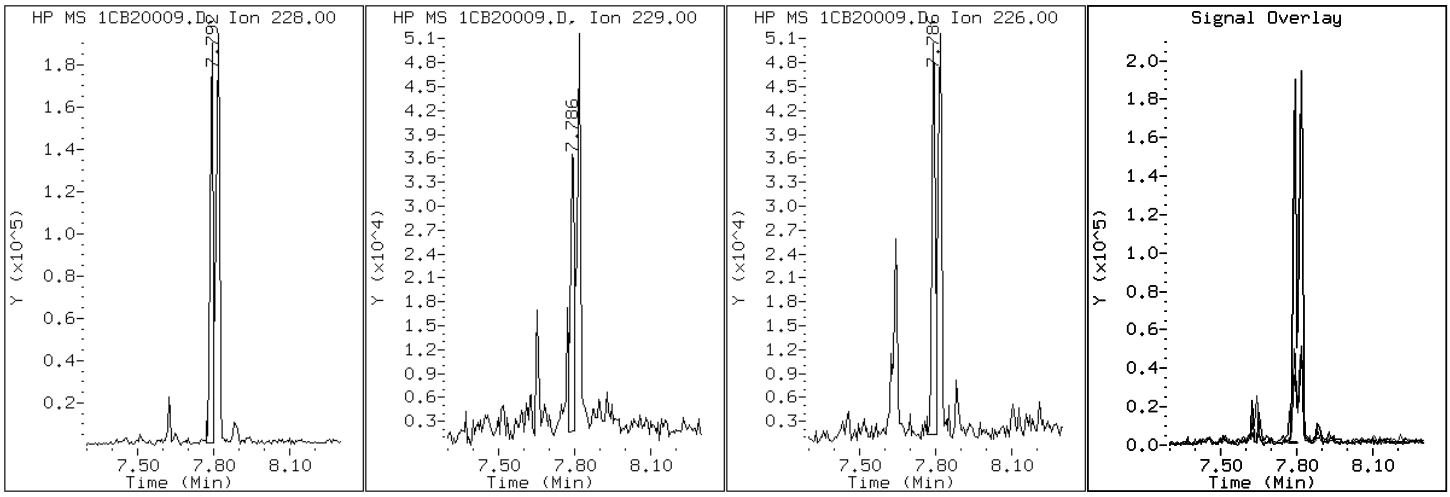
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

17 Benzo(a)anthracene



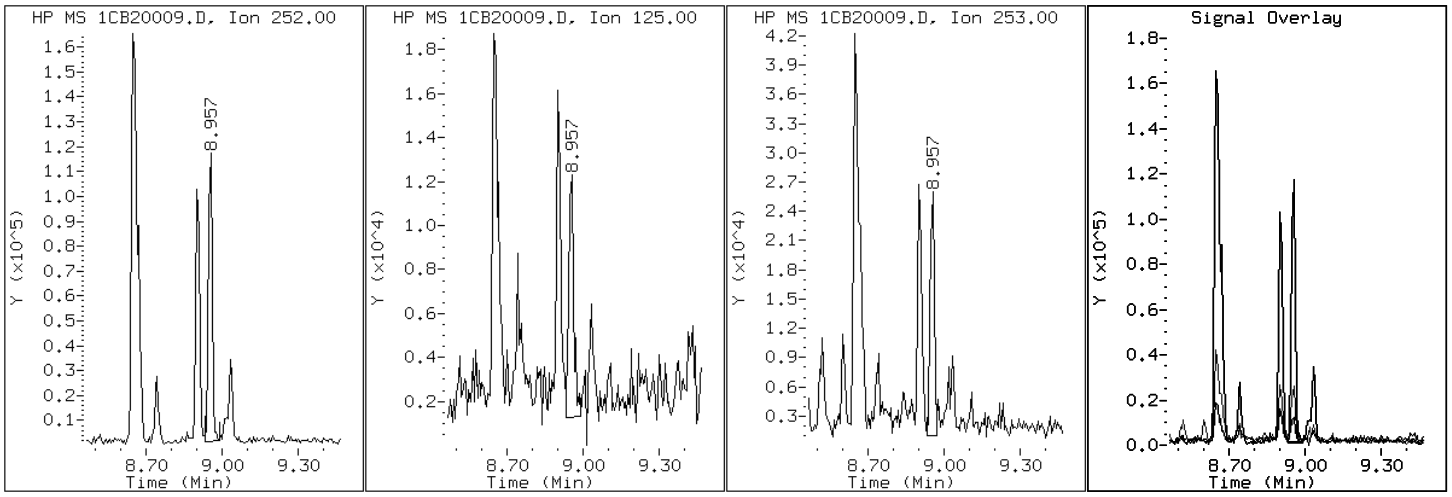
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

22 Benzo(a)pyrene



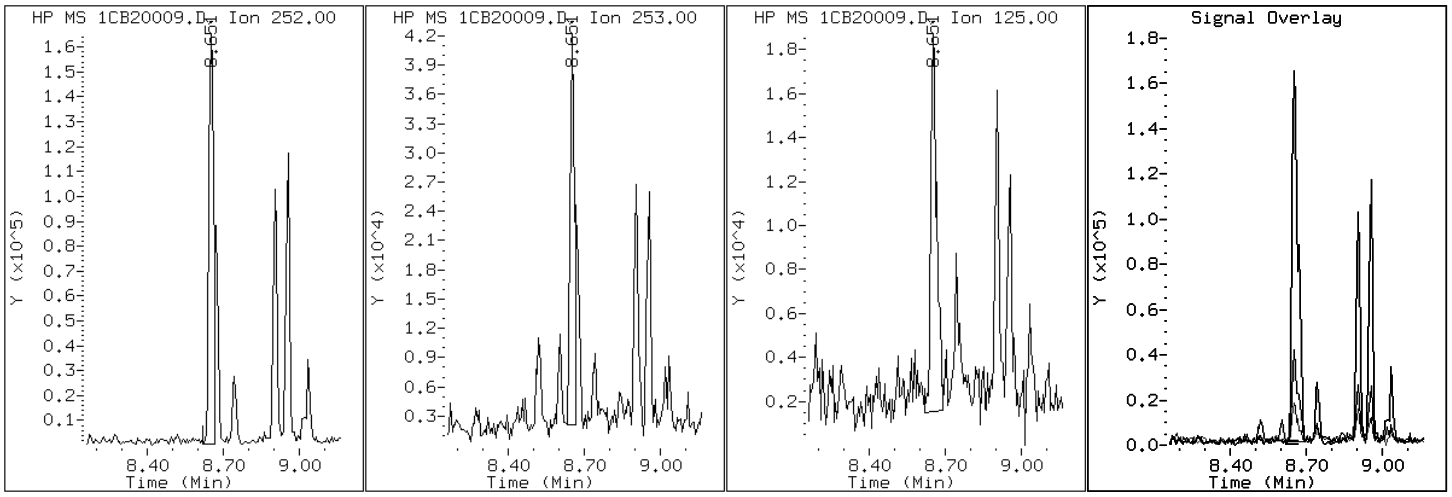
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

20 Benzo(b)fluoranthene



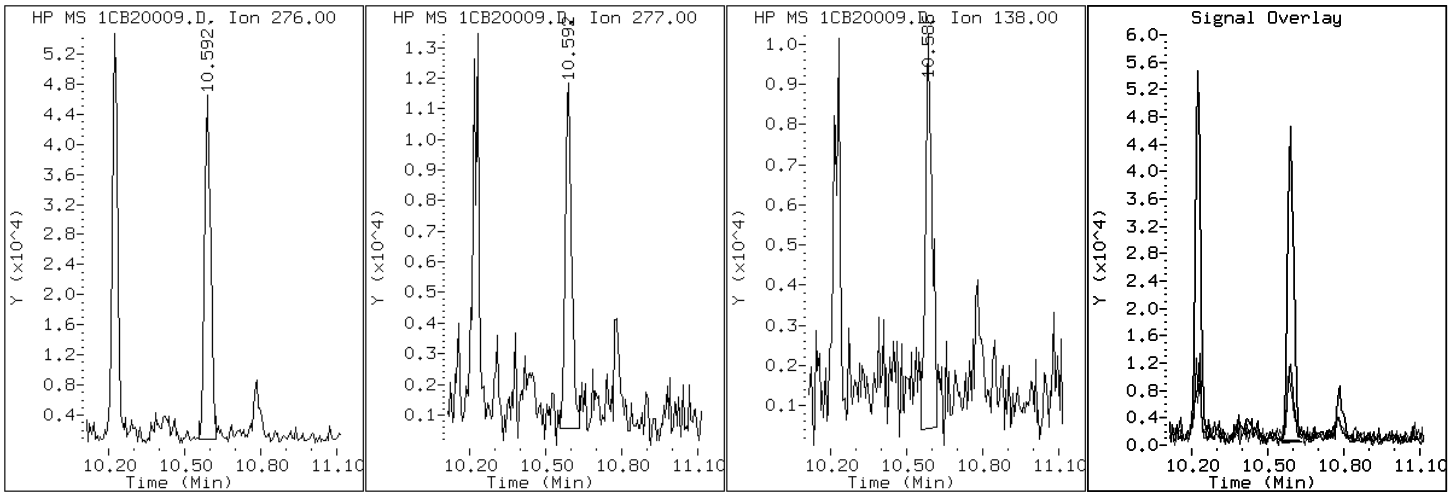
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

26 Benzo(g,h,i)perylene



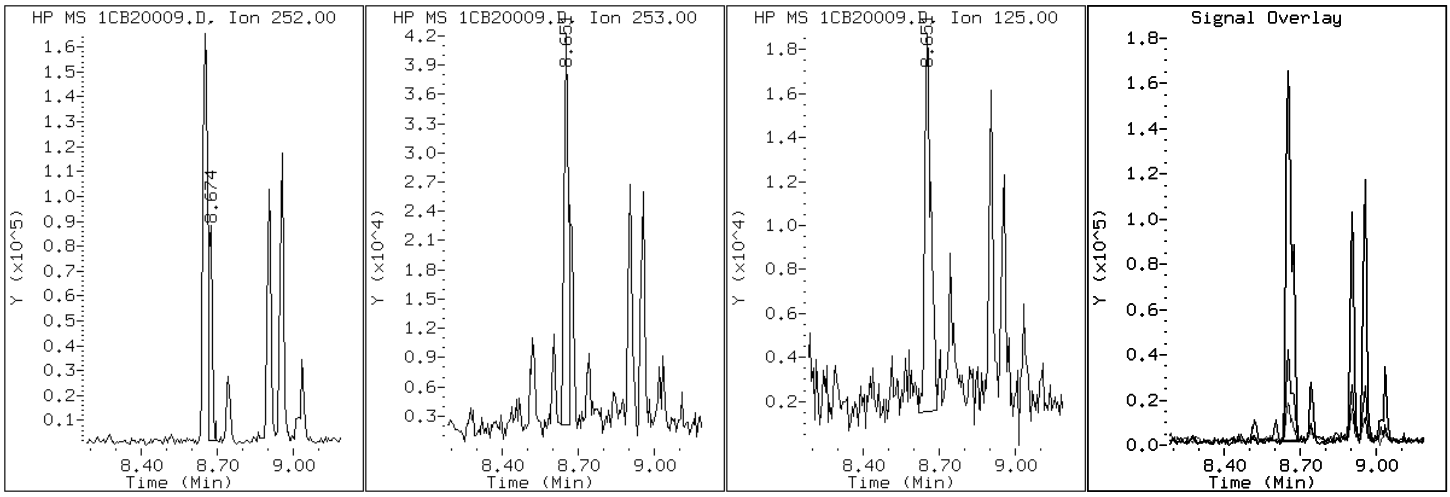
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

21 Benzo(k)fluoranthene



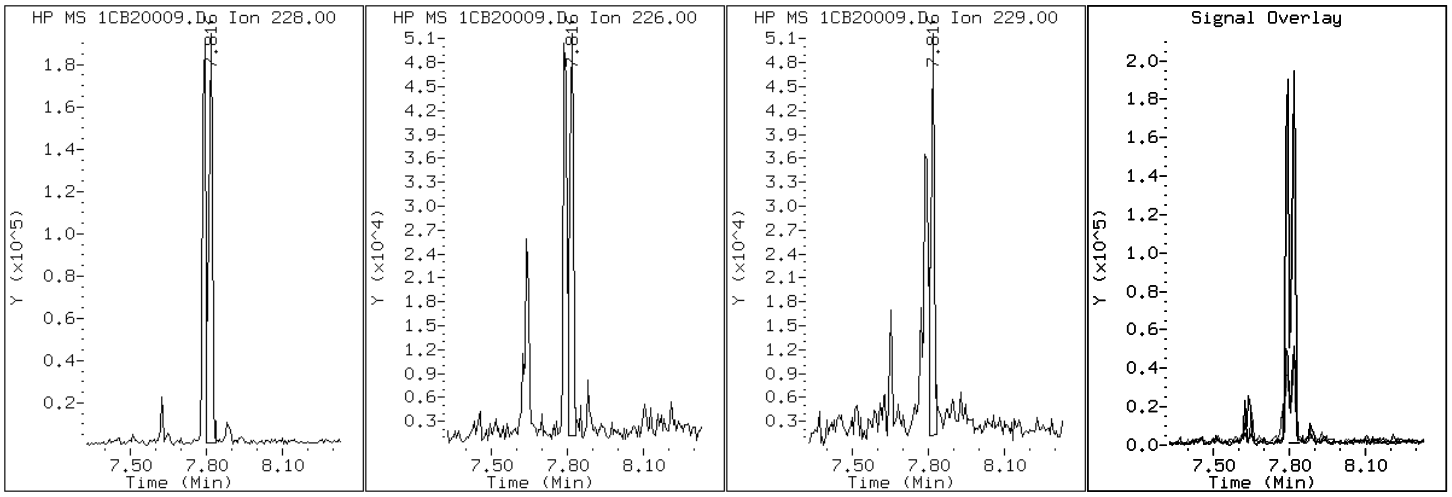
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

19 Chrysene



Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

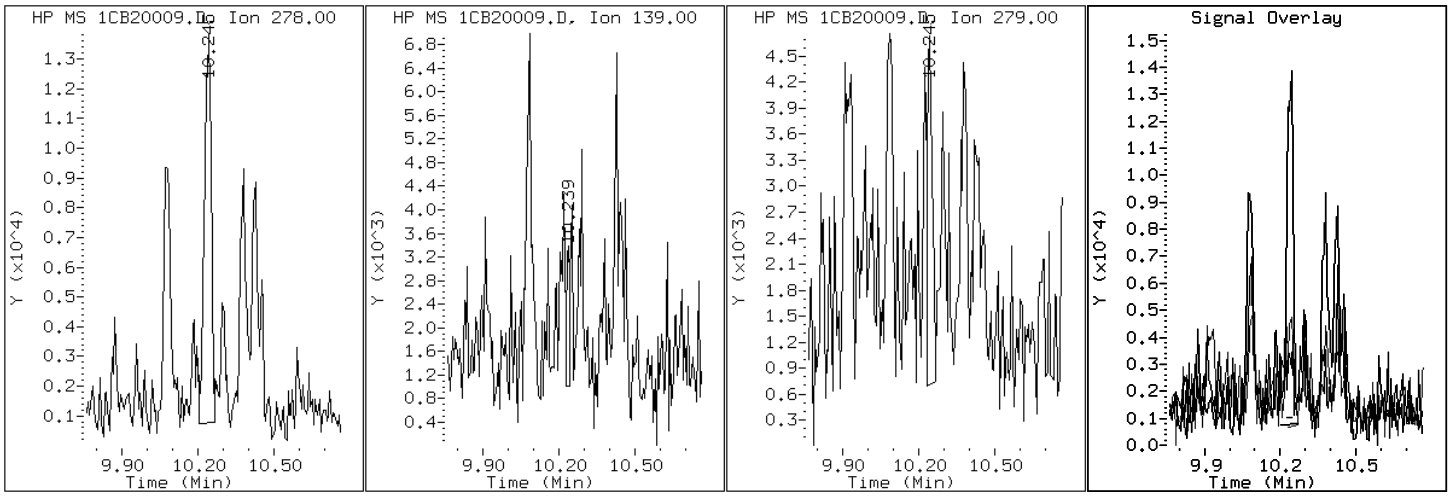
Client ID: CV0797A-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a

Operator: SCC

25 Dibenzo(a,h)anthracene



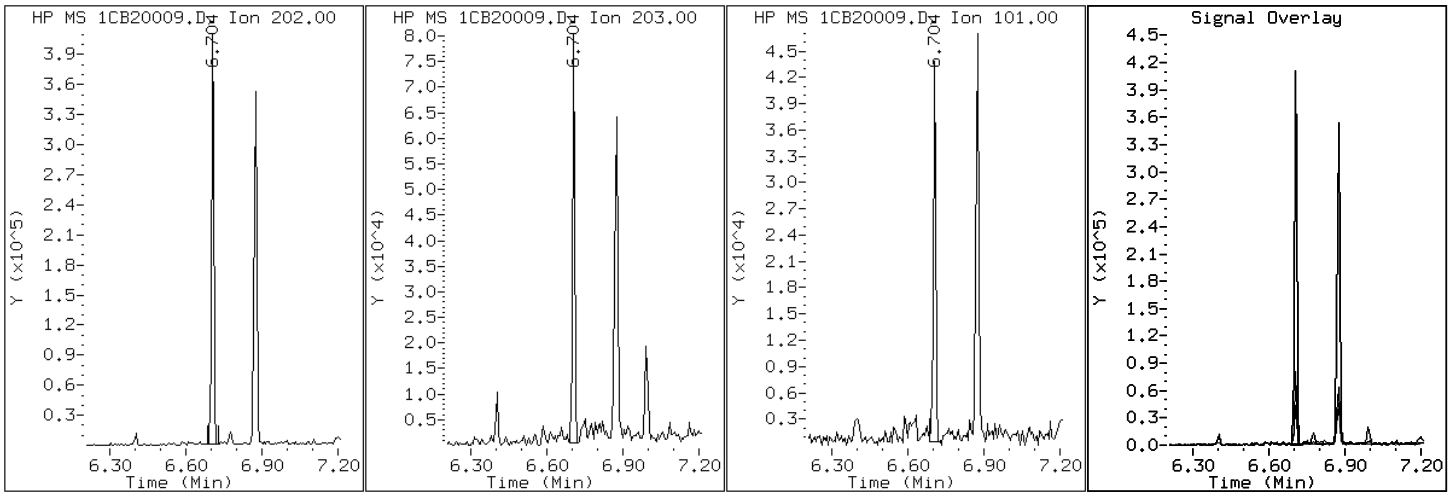
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

15 Fluoranthene



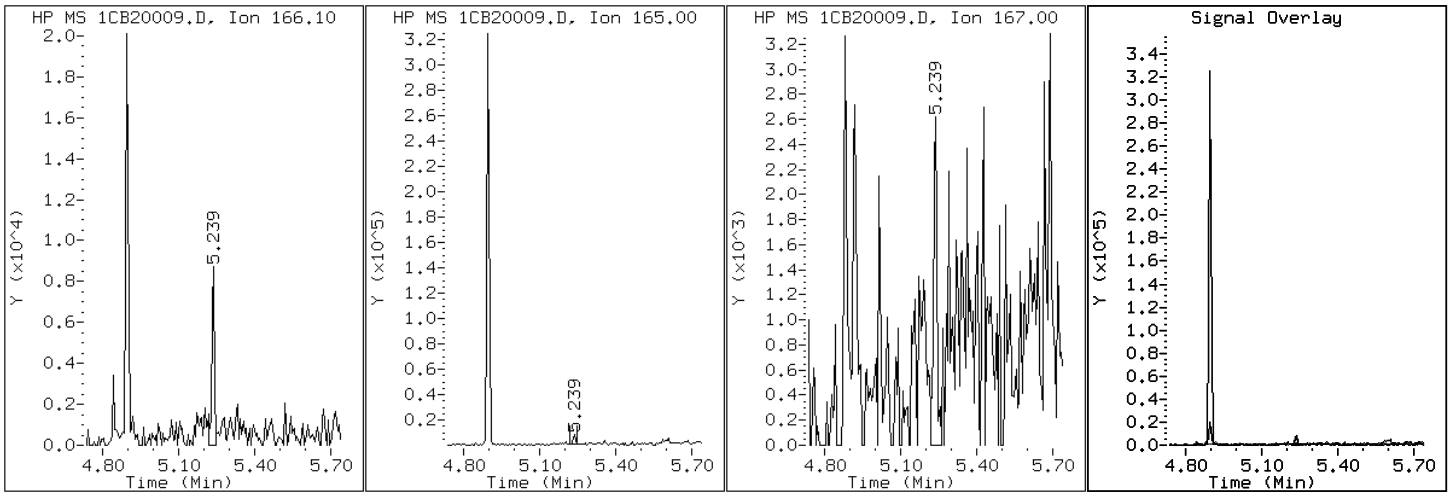
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

9 Fluorene



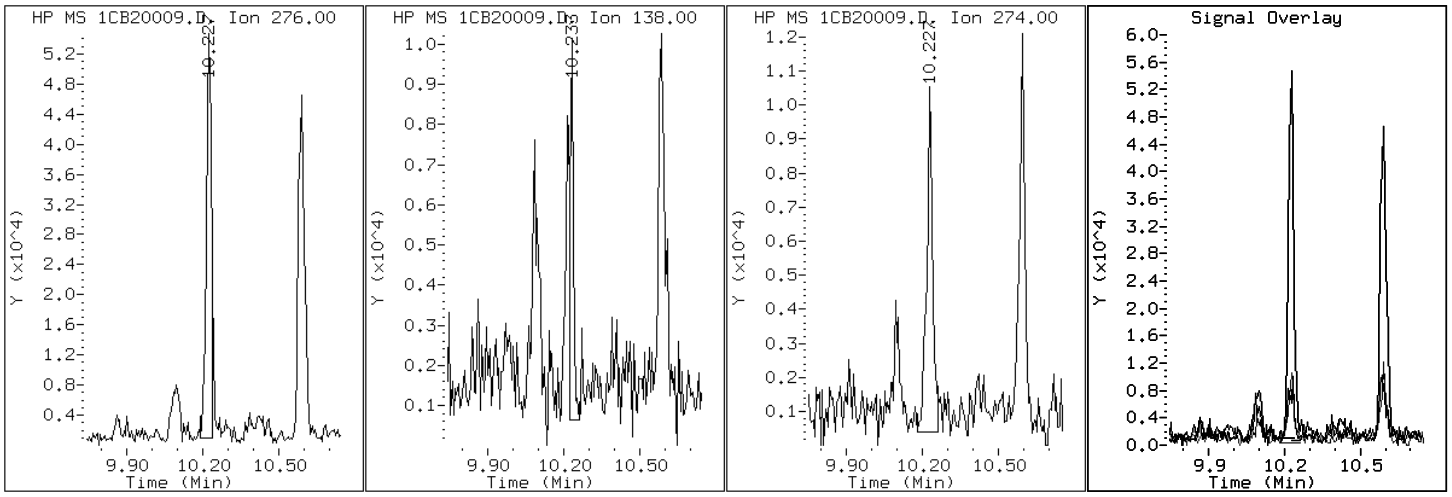
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

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



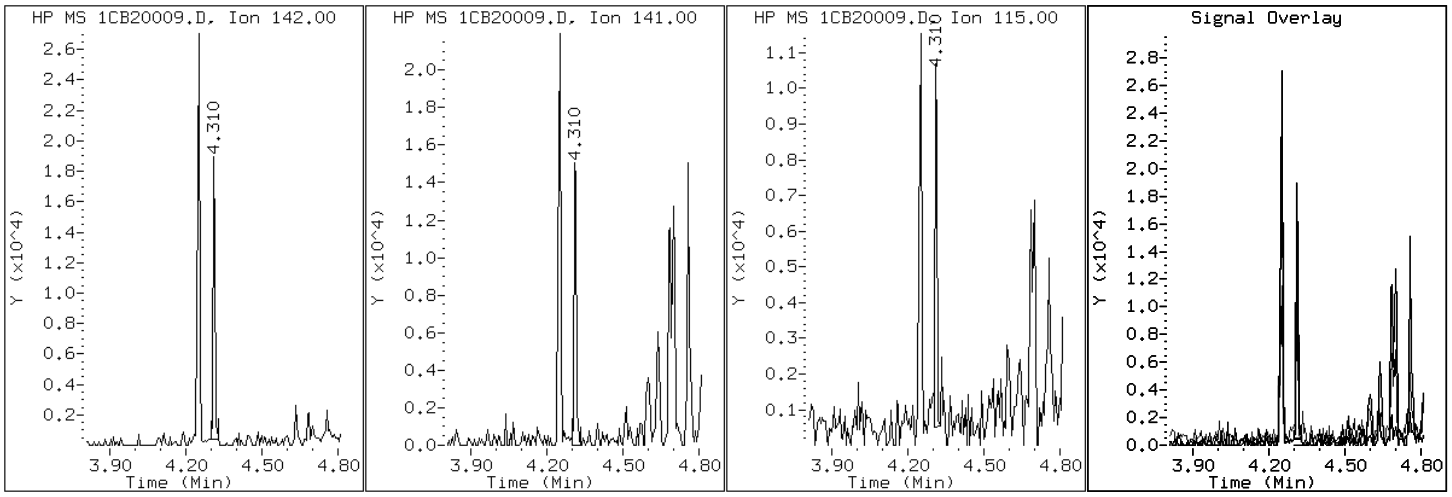
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

4 1-Methylnaphthalene



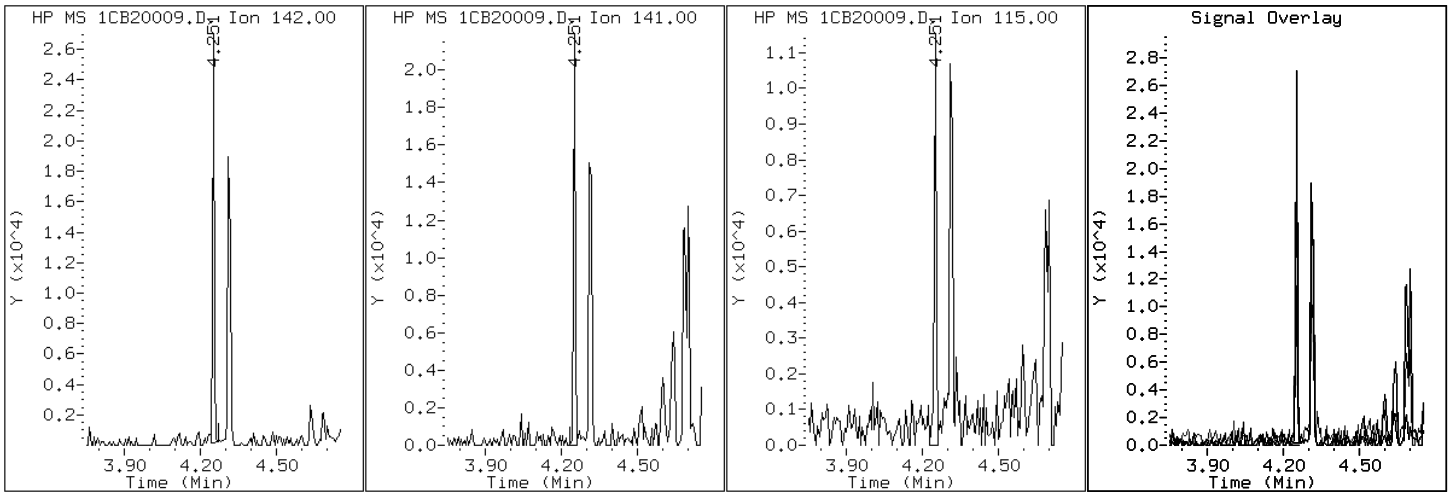
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

3 2-Methylnaphthalene



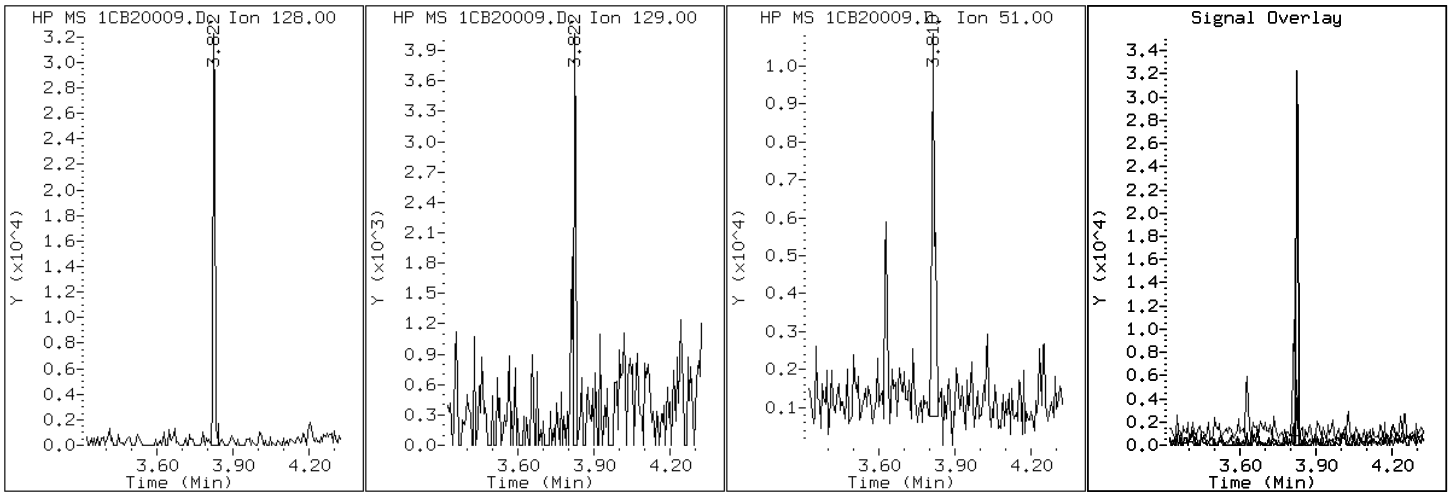
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

2 Naphthalene



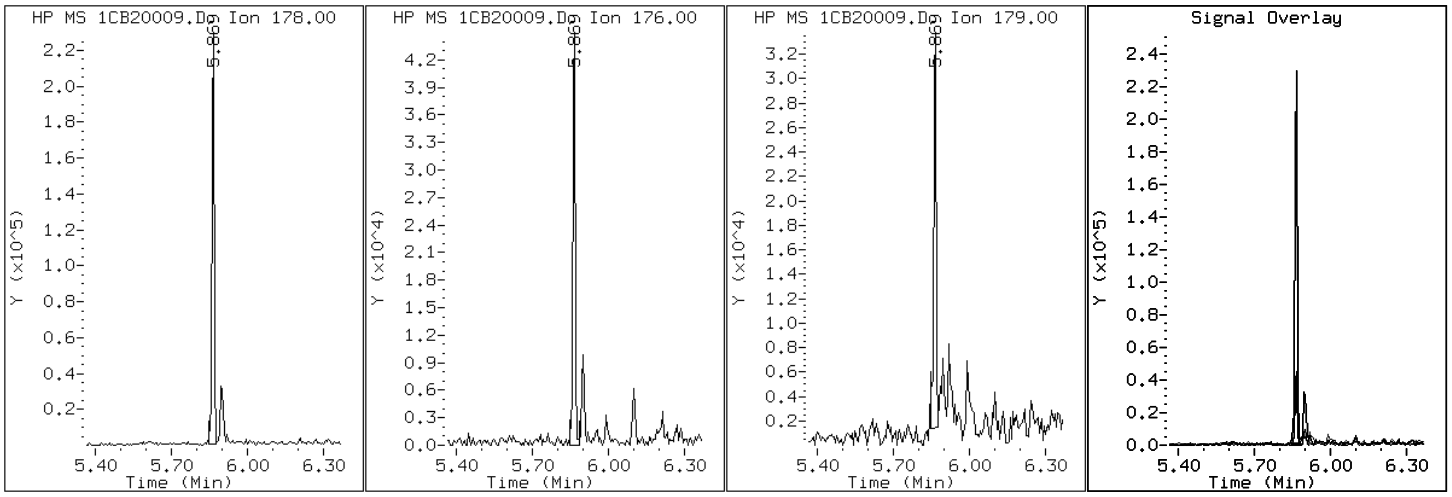
Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

Client ID: CV0797A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a Operator: SCC

11 Phenanthrene



Data File: 1CB20009.D

Date: 20-FEB-2013 16:10

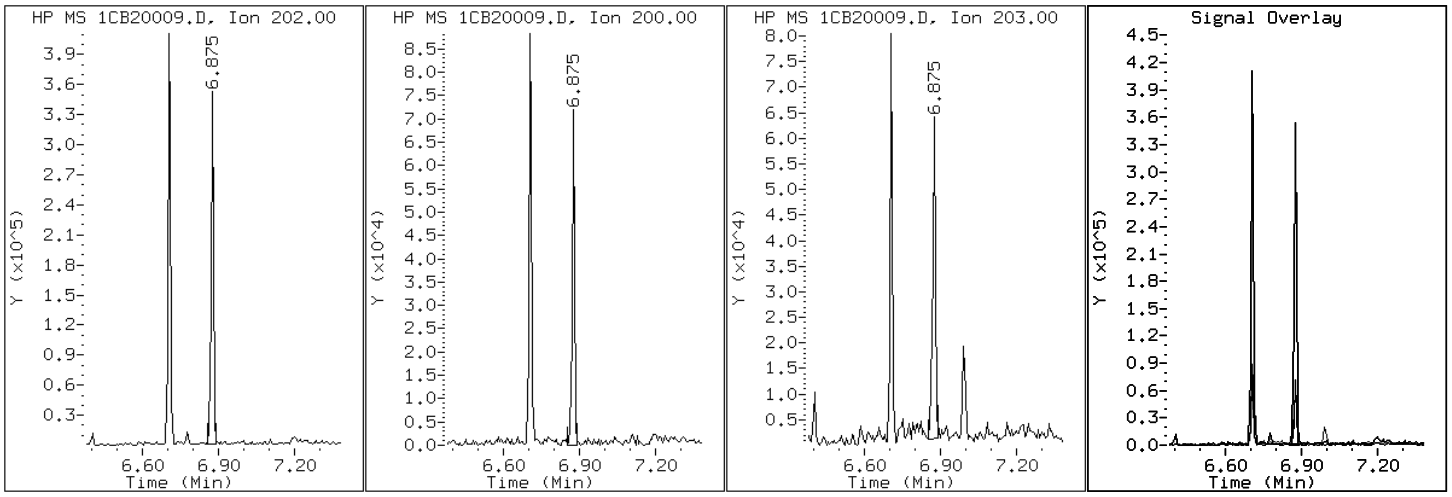
Client ID: CV0797A-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-35-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20009.D
Inj. Date and Time: 20-FEB-2013 16:10
Instrument ID: BSMC5973.i
Client ID: CV0797A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

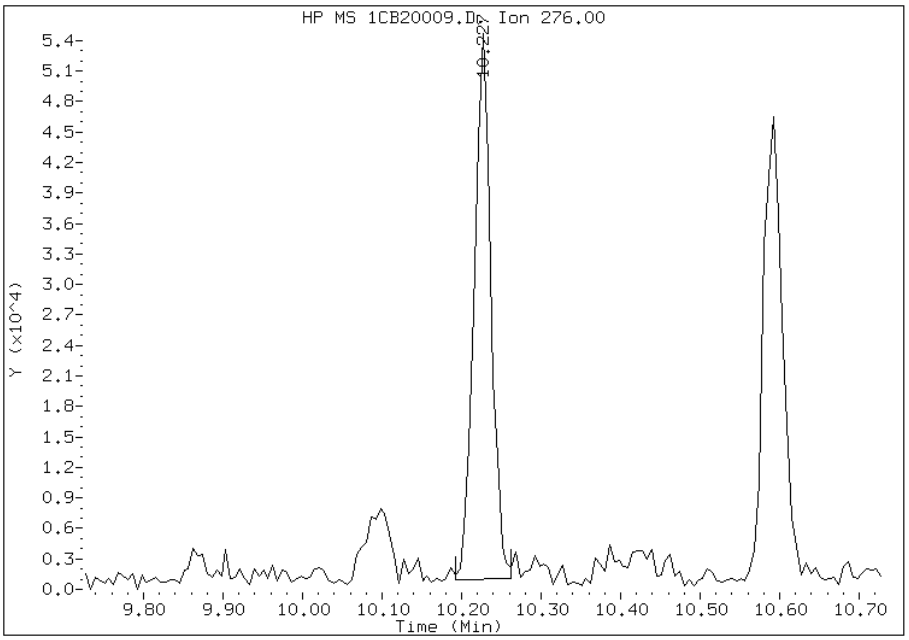
Processing Integration Results

RT: 10.23

Response: 78237

Amount: 1

Conc: 317



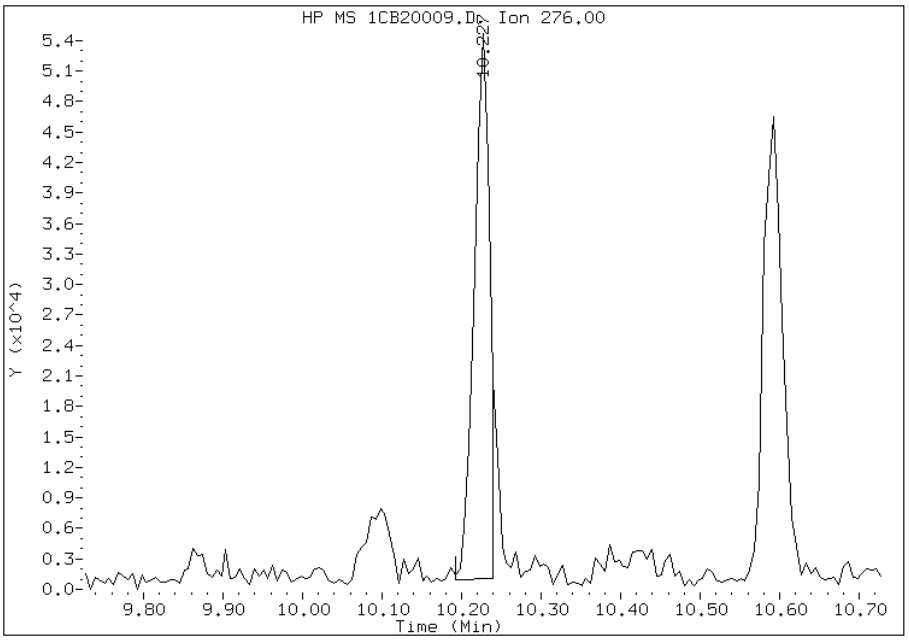
Manual Integration Results

RT: 10.23

Response: 71968

Amount: 1

Conc: 291



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0798A-CS | Lab Sample ID: 680-87320-36

Matrix: Solid | Lab File ID: 1CB20010.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 14:00

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

Sample wt/vol: 15.44(g) | Date Analyzed: 02/20/2013 16:28

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

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

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

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	400	U	400	80
208-96-8	Acenaphthylene	72	J	160	20
120-12-7	Anthracene	78		34	17
56-55-3	Benzo[a]anthracene	490		32	16
50-32-8	Benzo[a]pyrene	430		42	21
205-99-2	Benzo[b]fluoranthene	770		49	24
191-24-2	Benzo[g,h,i]perylene	260		80	18
207-08-9	Benzo[k]fluoranthene	260		32	14
218-01-9	Chrysene	530		36	18
53-70-3	Dibenz(a,h)anthracene	93		80	16
206-44-0	Fluoranthene	930		80	16
86-73-7	Fluorene	20	J	80	16
193-39-5	Indeno[1,2,3-cd]pyrene	220		80	28
90-12-0	1-Methylnaphthalene	170		160	18
91-57-6	2-Methylnaphthalene	200		160	28
91-20-3	Naphthalene	130	J	160	18
85-01-8	Phenanthrene	510		32	16
129-00-0	Pyrene	840		80	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022013.b\1CB20010.D
Lab Smp Id: 680-87320-A-36-A Client Smp ID: CV0798A-CS
Inj Date : 20-FEB-2013 16:28
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-36-a
Misc Info : 680-87320-A-36-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: 10
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	15.440	Weight Extracted
M	2.911	% 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)	2152877	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1645754	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	3052263	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	80135	1.79182	478.1188
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3422999	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	3350902	40.0000	
2 Naphthalene	128	3.821	3.822	(1.003)	28039	0.49149	131.1474
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	27681	0.74623	199.1204
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	21593	0.64004	170.7855
5 Acenaphthylene	152	4.810	4.810	(0.982)	17545	0.26796	71.5020
9 Fluorene	166	5.239	5.239	(1.070)	3989	0.07567	20.1922(Q)
11 Phenanthrene	178	5.868	5.869	(1.003)	172735	1.89594	505.9001
12 Anthracene	178	5.904	5.904	(1.009)	23972	0.29204	77.9253
13 Carbazole	167	6.010	6.010	(1.027)	26996	0.37862	101.0285

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)	310412	3.48679	930.3934
16 Pyrene	202	6.874	6.880	(0.882)	285849	3.13677	836.9951
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	172342	1.82577	487.1783
19 Chrysene	228	7.815	7.827	(1.002)	193447	1.98399	529.3962
20 Benzo(b)fluoranthene	252	8.656	8.662	(0.960)	237432	2.89011	771.1799(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	88720	0.98027	261.5694(QM)
22 Benzo(a)pyrene	252	8.956	8.968	(0.993)	125601	1.60670	428.7214
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	61406	0.81783	218.2253(M)
25 Dibenzo(a,h)anthracene	278	10.239	10.262	(1.136)	24755	0.34962	93.2904
26 Benzo(g,h,i)perylene	276	10.592	10.615	(1.175)	73147	0.95905	255.9072

QC Flag Legend

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

Data File: 1CB20010.D

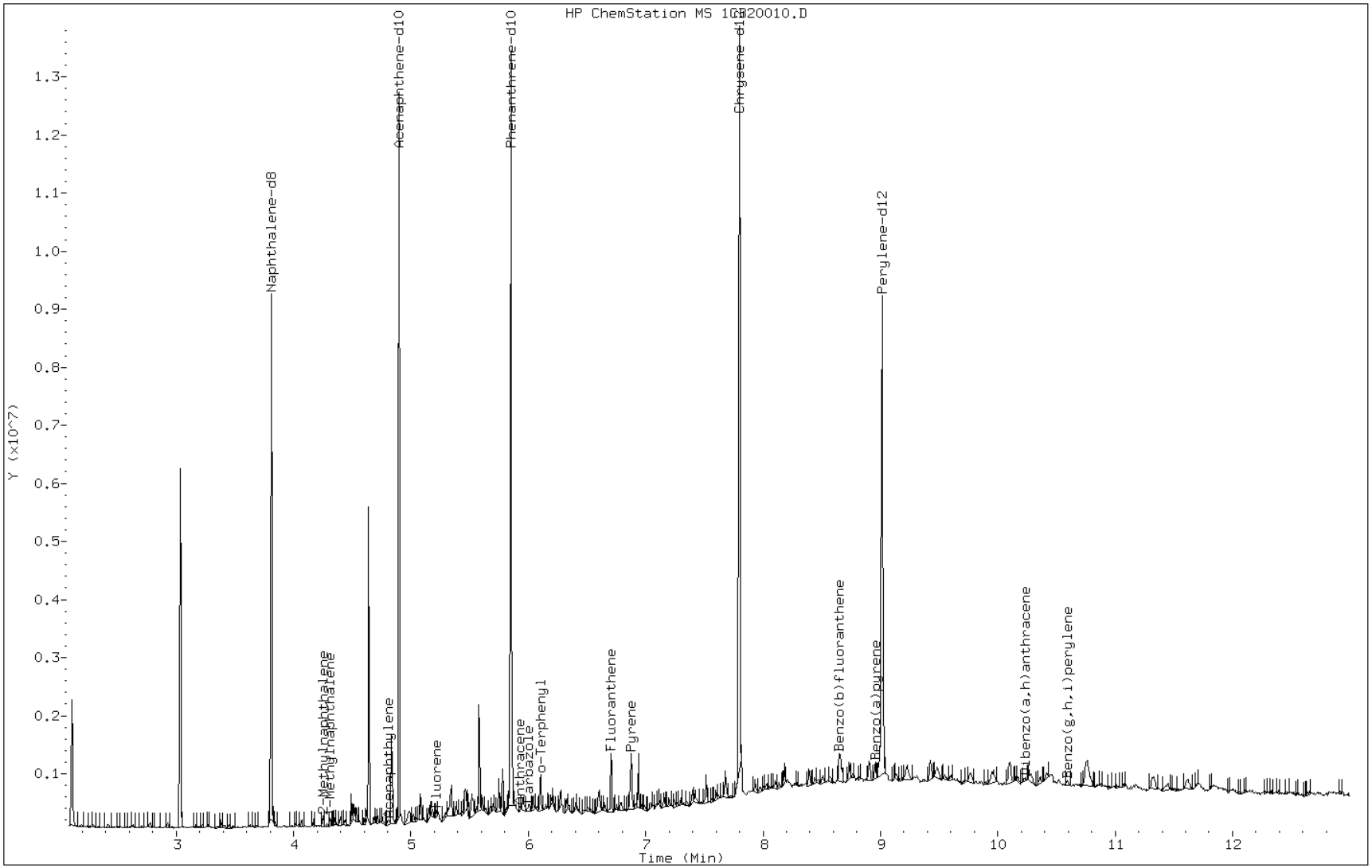
Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a

Operator: SCC



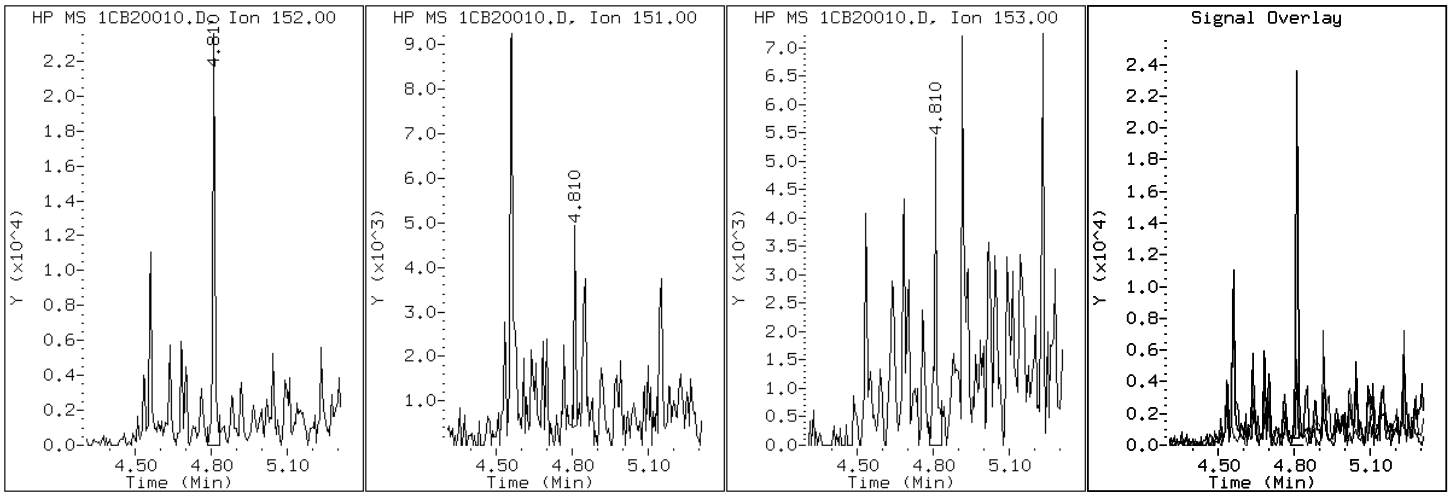
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

5 Acenaphthylene



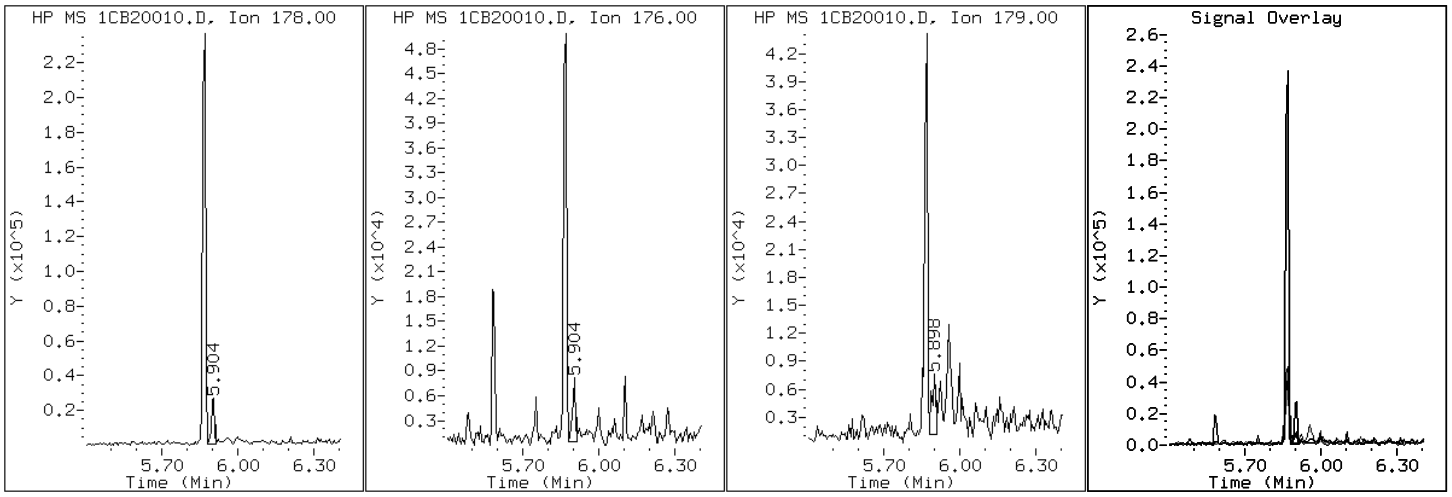
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

12 Anthracene



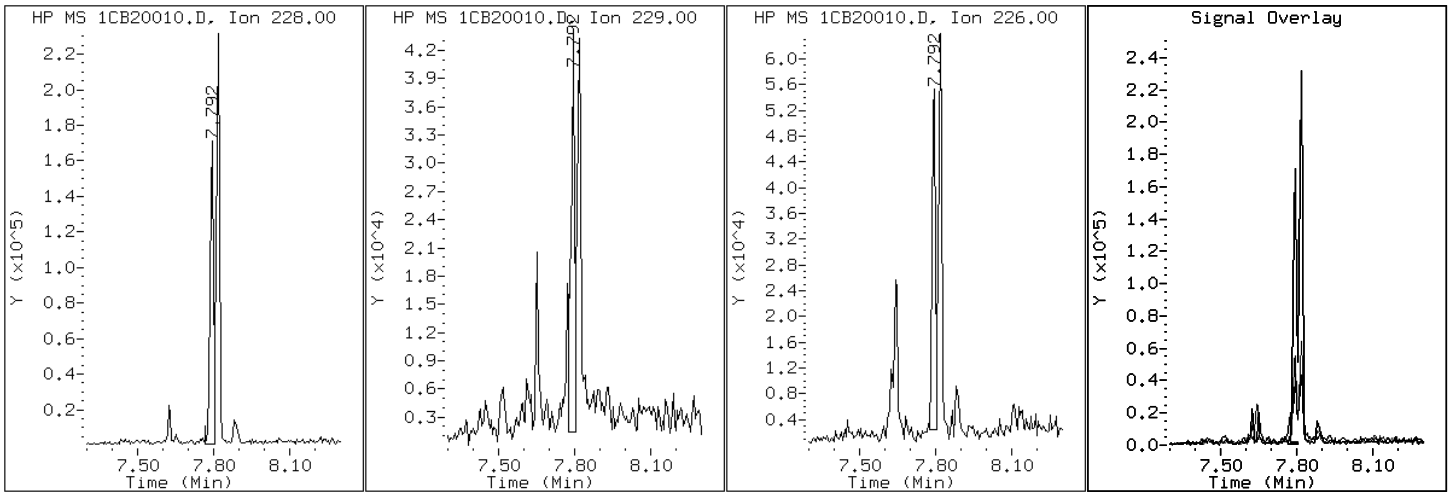
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

17 Benzo(a)anthracene



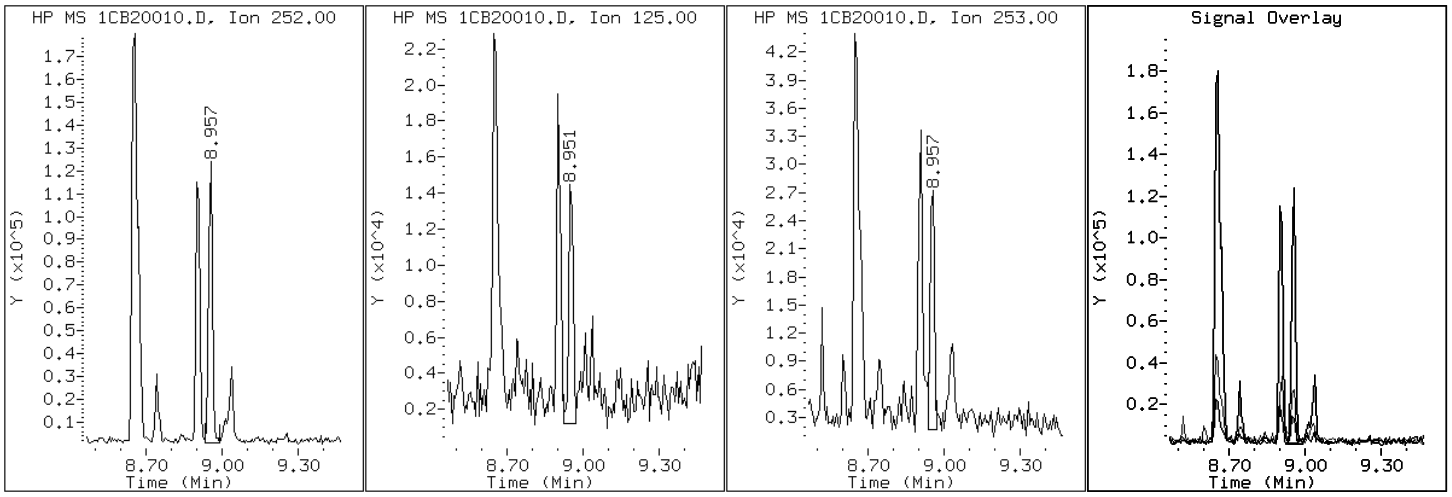
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

22 Benzo(a)pyrene



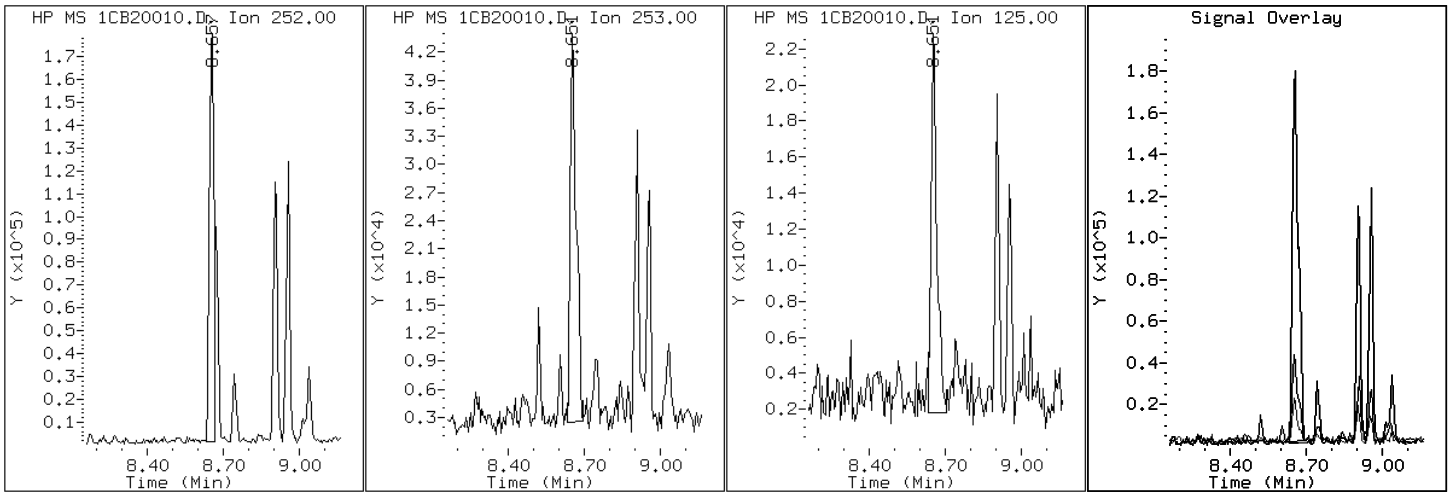
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

20 Benzo(b)fluoranthene



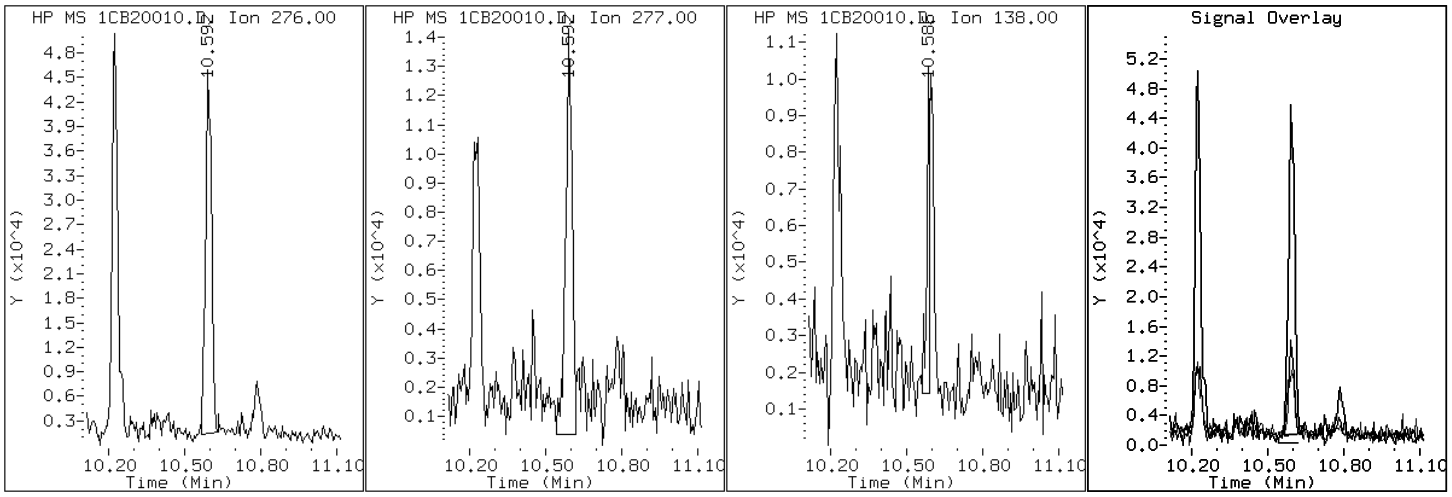
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

26 Benzo(g,h,i)perylene



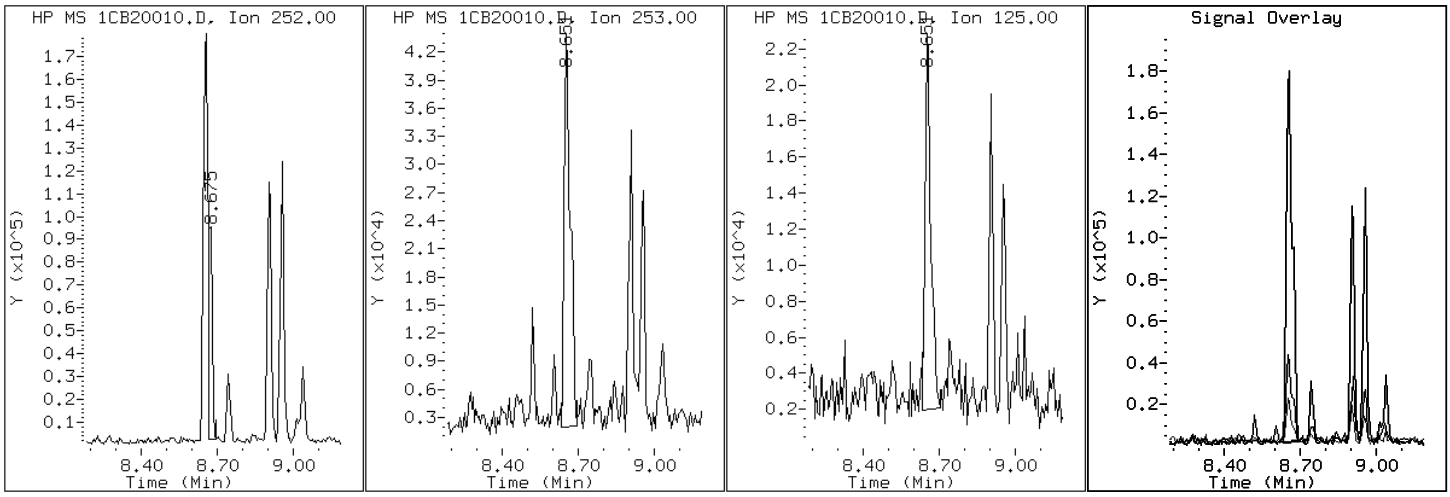
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

21 Benzo(k)fluoranthene



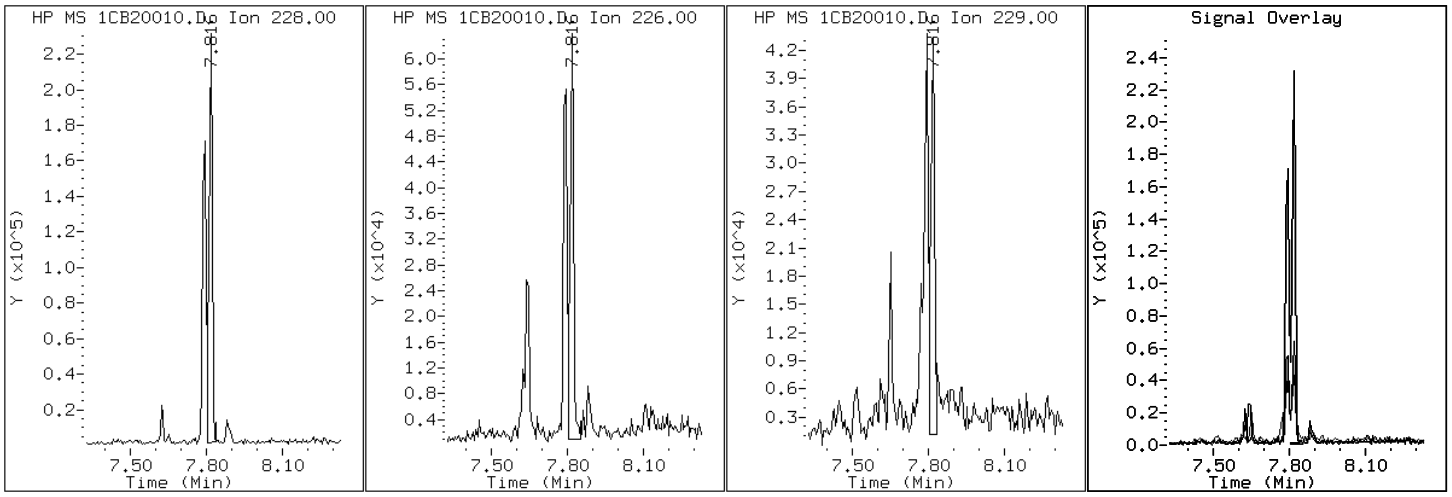
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

19 Chrysene



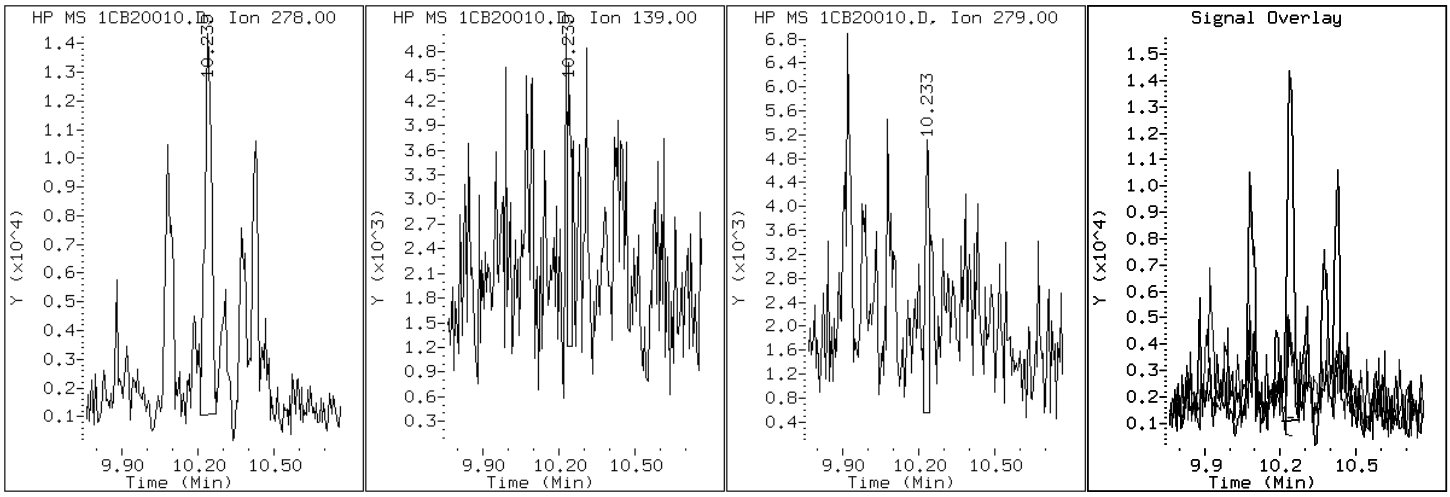
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

25 Dibenzo(a,h)anthracene



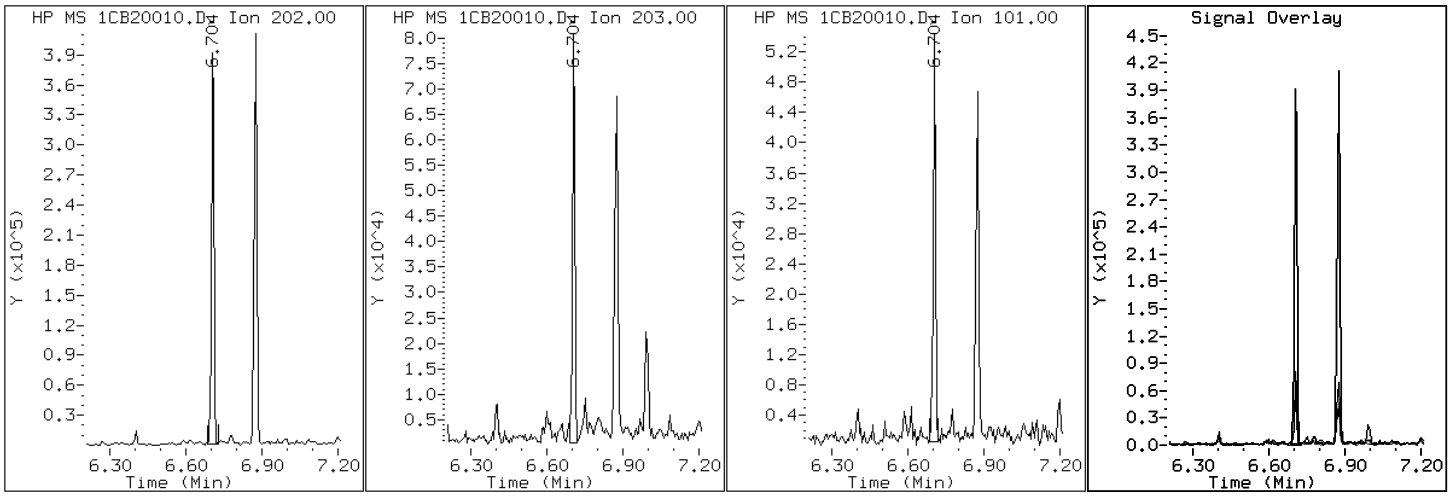
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

15 Fluoranthene



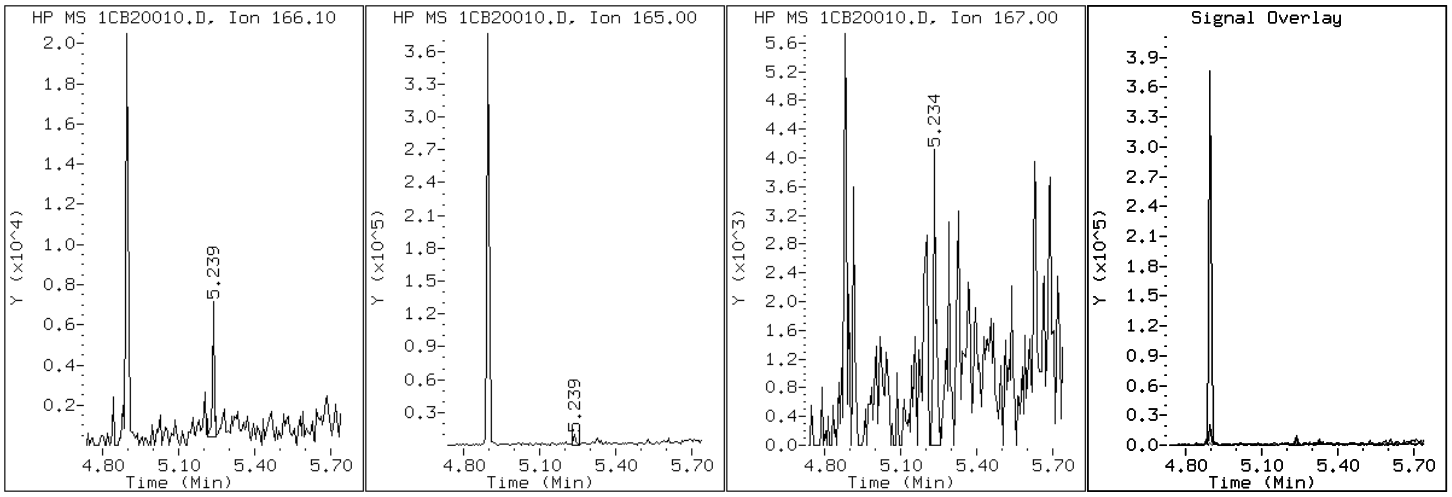
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

9 Fluorene



Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

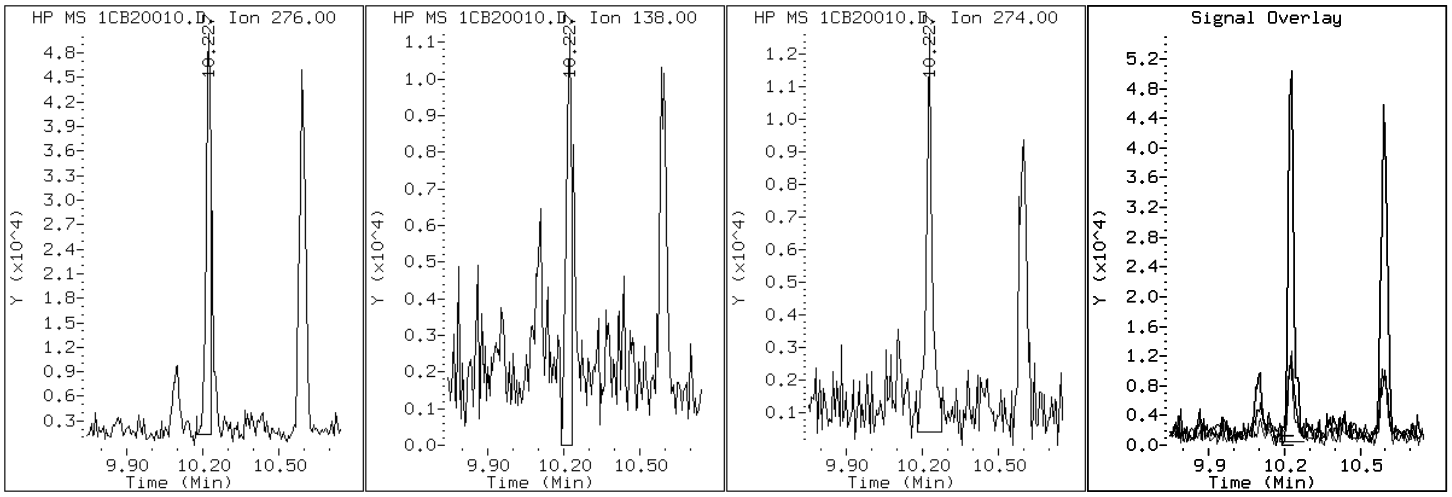
Client ID: CV0798A-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a

Operator: SCC

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



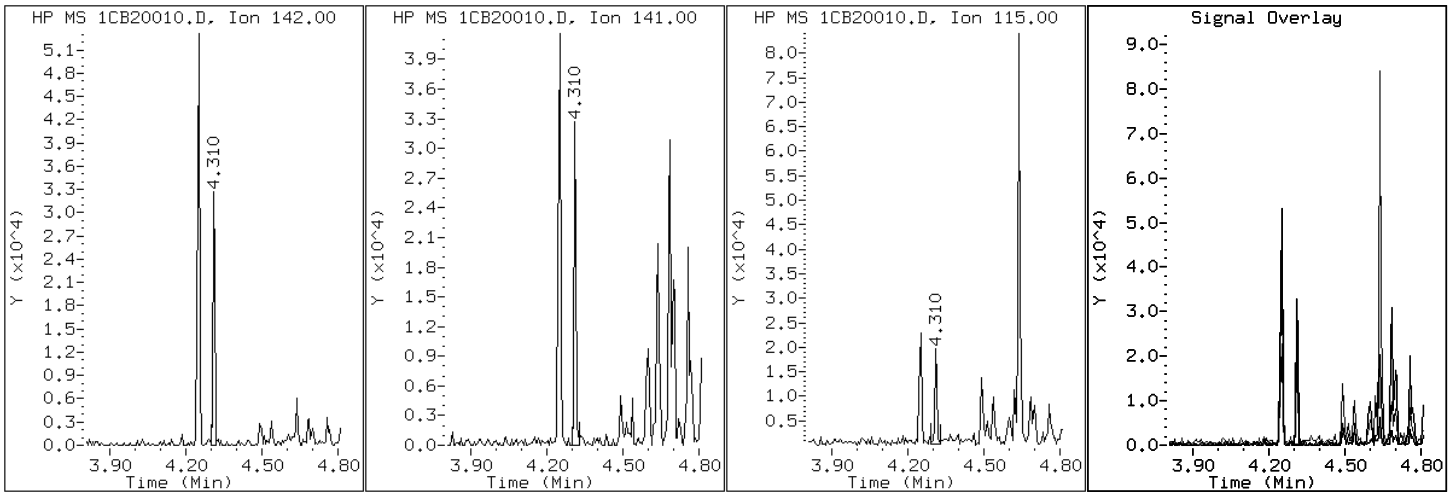
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

4 1-Methylnaphthalene



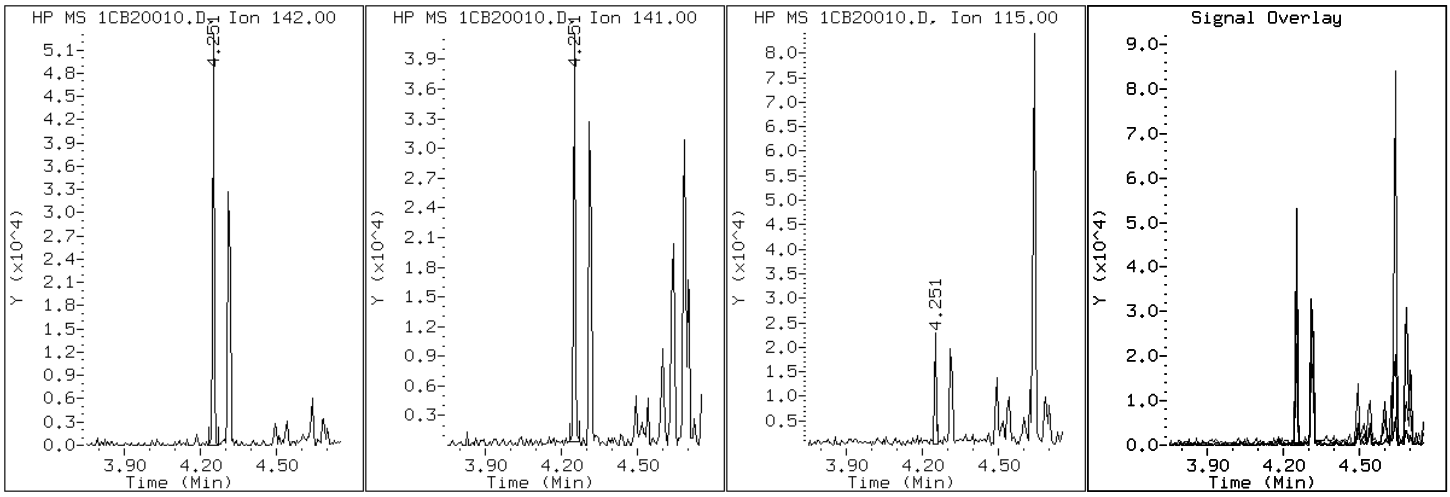
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

3 2-Methylnaphthalene



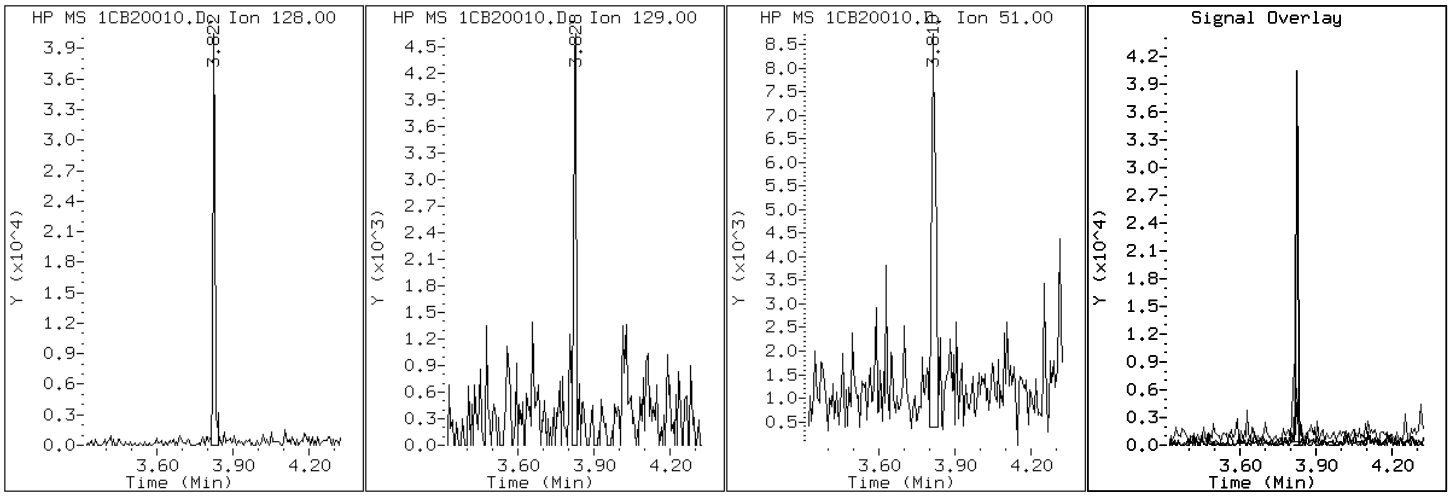
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

2 Naphthalene



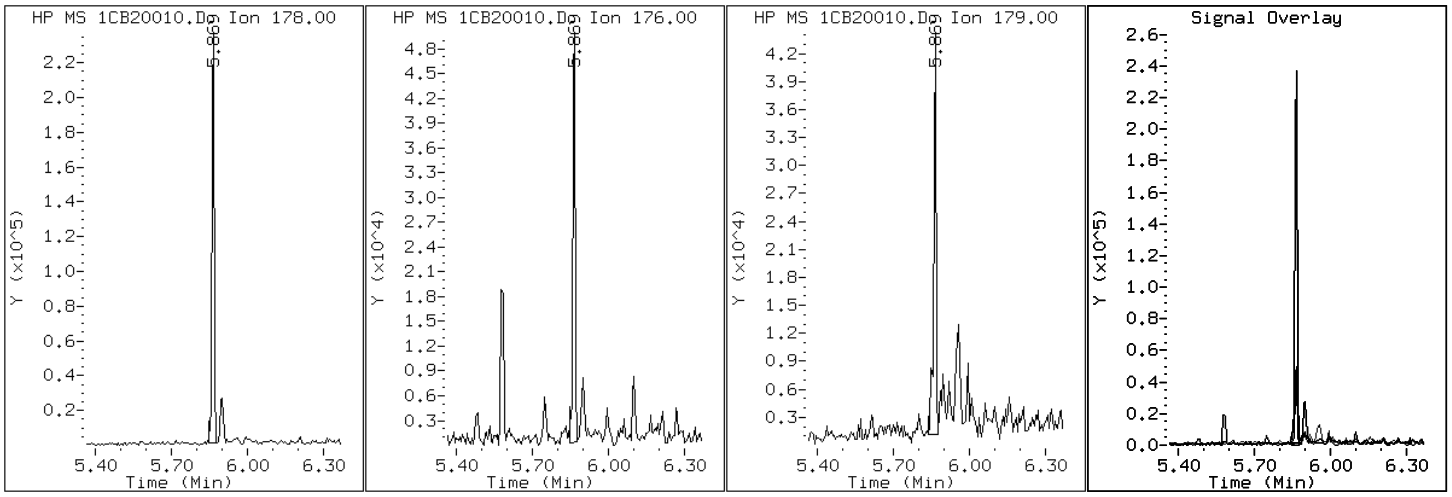
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

11 Phenanthrene



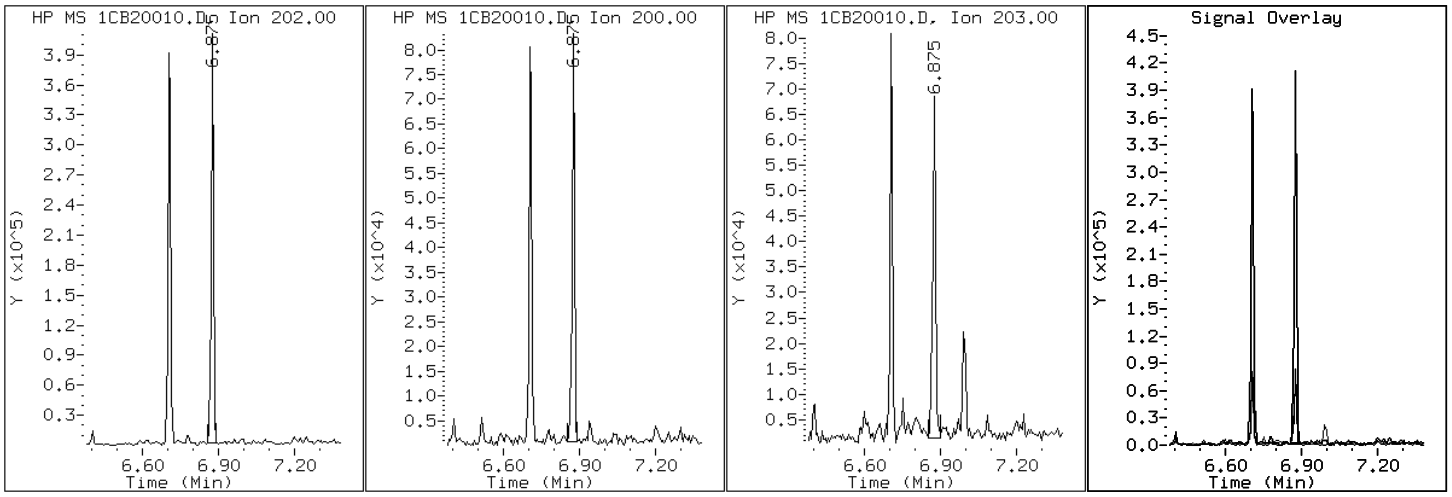
Data File: 1CB20010.D

Date: 20-FEB-2013 16:28

Client ID: CV0798A-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-36-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20010.D
Inj. Date and Time: 20-FEB-2013 16:28
Instrument ID: BSMC5973.i
Client ID: CV0798A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/21/2013

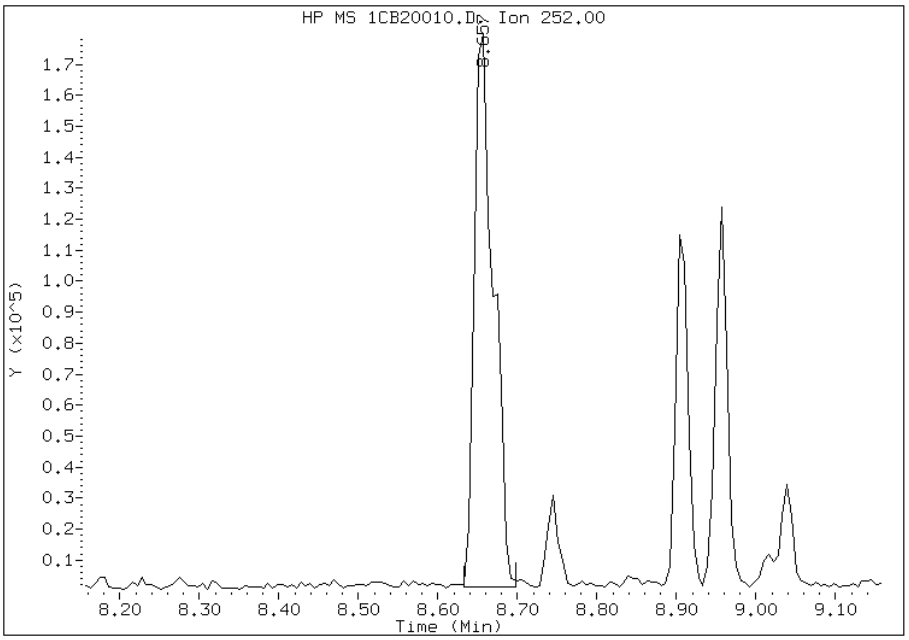
Processing Integration Results

RT: 8.66

Response: 295833

Amount: 4

Conc: 961



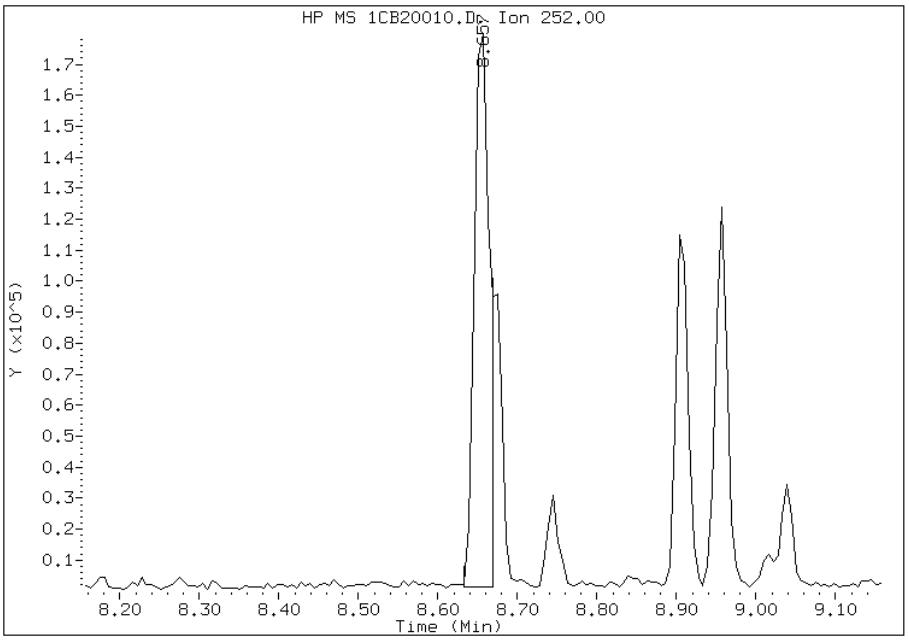
Manual Integration Results

RT: 8.66

Response: 237432

Amount: 3

Conc: 771



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB20010.D
Inj. Date and Time: 20-FEB-2013 16:28
Instrument ID: BSMC5973.i
Client ID: CV0798A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/21/2013

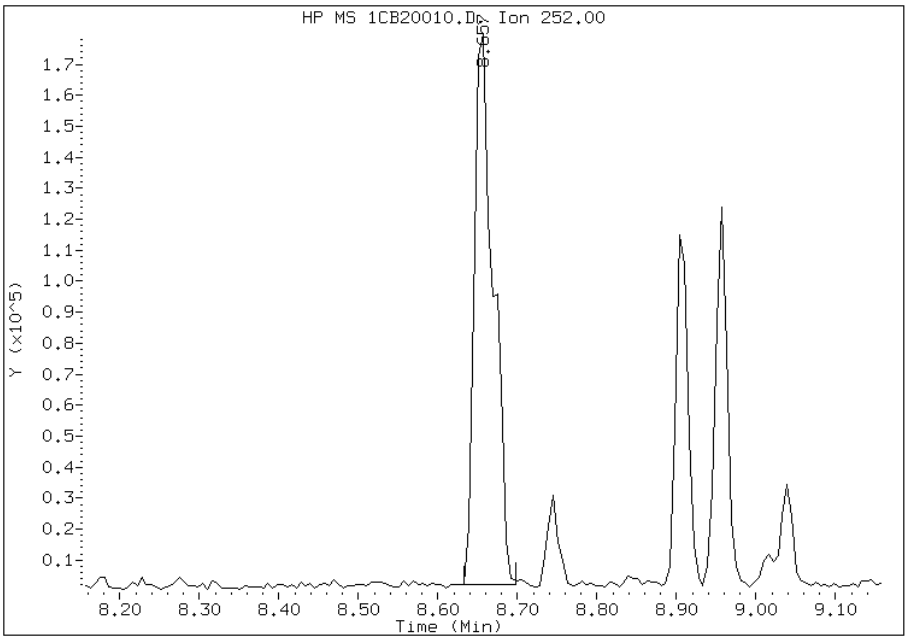
Processing Integration Results

RT: 8.66

Response: 293074

Amount: 3

Conc: 864



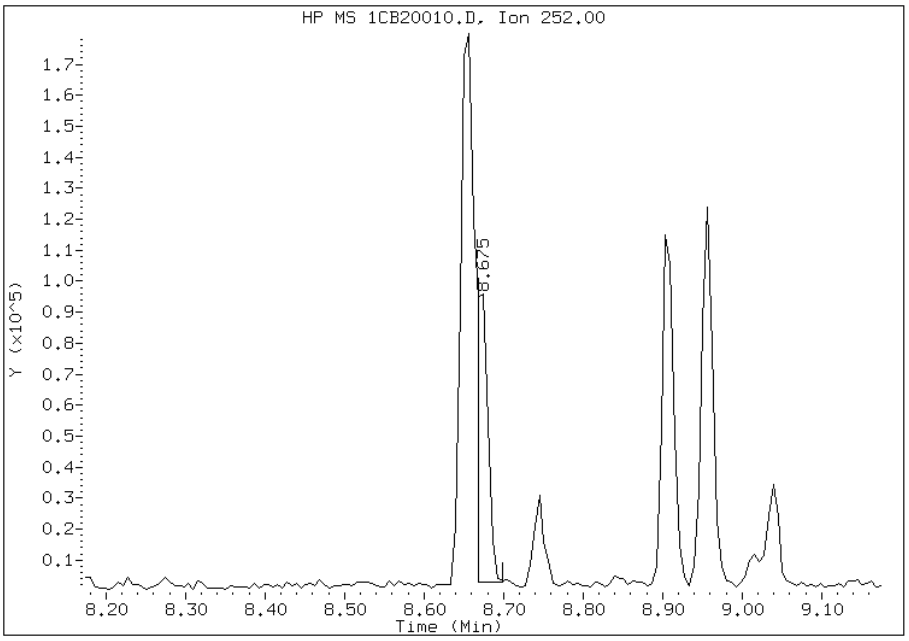
Manual Integration Results

RT: 8.67

Response: 88720

Amount: 1

Conc: 262



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 17:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB20010.D
Inj. Date and Time: 20-FEB-2013 16:28
Instrument ID: BSMC5973.i
Client ID: CV0798A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

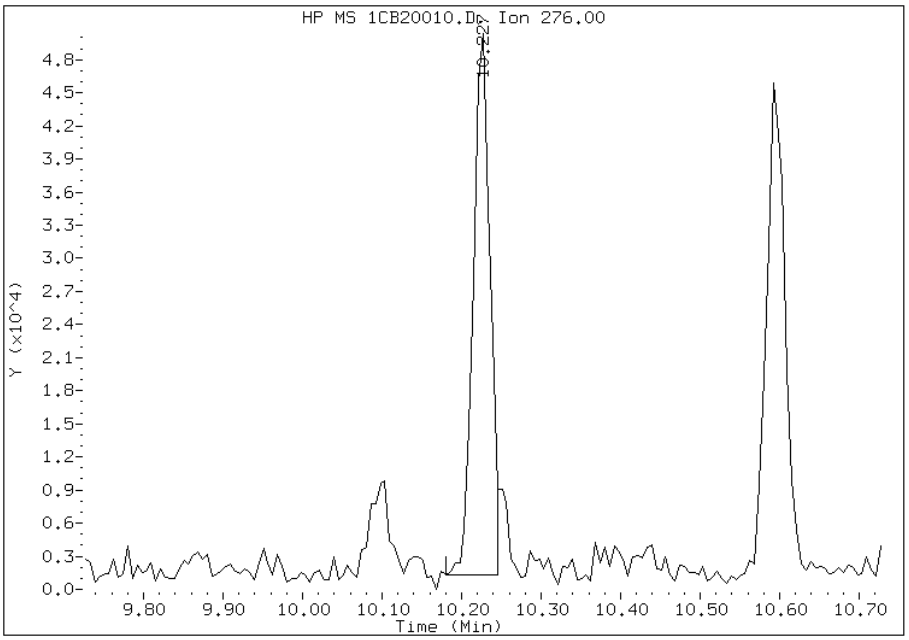
Processing Integration Results

RT: 10.23

Response: 71740

Amount: 1

Conc: 255



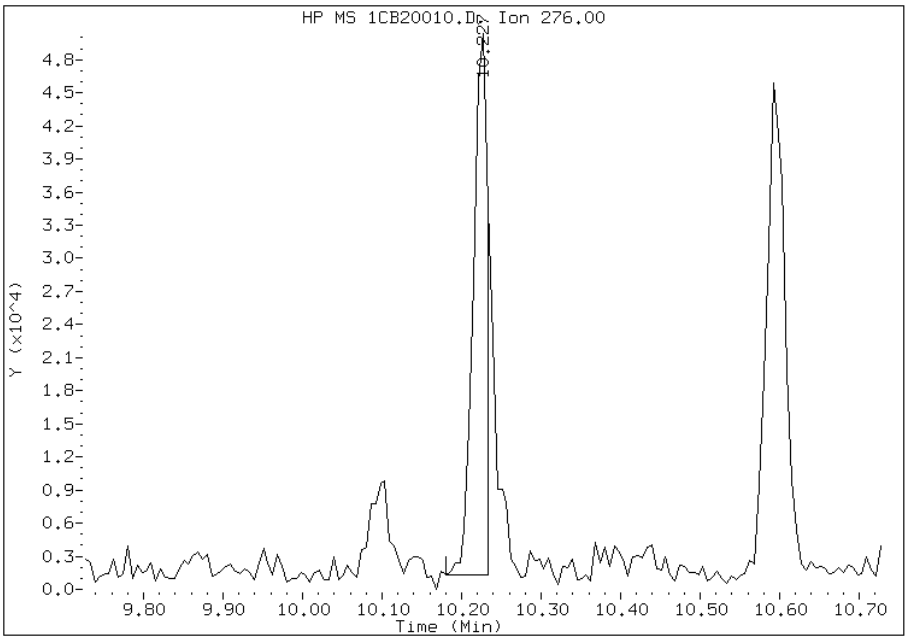
Manual Integration Results

RT: 10.23

Response: 61406

Amount: 1

Conc: 218



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 18:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0962D-CS | Lab Sample ID: 680-87320-37

Matrix: Solid | Lab File ID: 1CB20011.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 13:55

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

Sample wt/vol: 14.99(g) | Date Analyzed: 02/20/2013 16:46

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

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

% Moisture: 10.2 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	450	U	450	89
208-96-8	Acenaphthylene	38	J	180	22
120-12-7	Anthracene	88		37	19
56-55-3	Benzo[a]anthracene	680		36	17
50-32-8	Benzo[a]pyrene	850		46	23
205-99-2	Benzo[b]fluoranthene	1200		54	27
191-24-2	Benzo[g,h,i]perylene	710		89	20
207-08-9	Benzo[k]fluoranthene	520		36	16
218-01-9	Chrysene	740		40	20
53-70-3	Dibenz(a,h)anthracene	170		89	18
206-44-0	Fluoranthene	1400		89	18
86-73-7	Fluorene	23	J	89	18
193-39-5	Indeno[1,2,3-cd]pyrene	610		89	32
90-12-0	1-Methylnaphthalene	34	J	180	20
91-57-6	2-Methylnaphthalene	42	J	180	32
91-20-3	Naphthalene	40	J	180	20
85-01-8	Phenanthrene	430		36	17
129-00-0	Pyrene	1300		89	17

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\1CB20011.D
Lab Smp Id: 680-87320-A-37-A Client Smp ID: CV0962D-CS
Inj Date : 20-FEB-2013 16:46
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-37-a
Misc Info : 680-87320-A-37-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: 11
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	10.245	% 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)	2161388	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1631794	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2961095	40.0000	
$ 14 o-Terphenyl	230	6.104	6.104	(1.043)	86180	1.98632	590.5388
* 18 Chrysene-d12	240	7.798	7.804	(1.000)	3146150	40.0000	
* 23 Perylene-d12	264	9.015	9.027	(1.000)	2974072	40.0000	
2 Naphthalene	128	3.822	3.822	(1.003)	7726	0.13490	40.1048(Q)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	5302	0.14237	42.3271
4 1-Methylnaphthalene	142	4.310	4.310	(1.131)	3895	0.11500	34.1893
5 Acenaphthylene	152	4.810	4.810	(0.982)	8346	0.12856	38.2209
9 Fluorene	166	5.239	5.239	(1.070)	3972	0.07600	22.5937
11 Phenanthrene	178	5.869	5.869	(1.003)	128407	1.45279	431.9182
12 Anthracene	178	5.898	5.904	(1.008)	23597	0.29632	88.0967
13 Carbazole	167	6.004	6.010	(1.026)	21395	0.30930	91.9571

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)	421040	4.87506	1449.3721
16 Pyrene	202	6.874	6.880	(0.882)	367047	4.38222	1302.8489
17 Benzo(a)anthracene	228	7.792	7.798	(0.999)	198556	2.28858	680.4025
19 Chrysene	228	7.815	7.827	(1.002)	223608	2.49513	741.8093
20 Benzo(b)fluoranthene	252	8.657	8.662	(0.960)	305862	4.19480	1247.1279
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.962)	140025	1.74317	518.2509(Q)
22 Benzo(a)pyrene	252	8.957	8.968	(0.993)	197296	2.84361	845.4139
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.245	(1.134)	136476	2.04795	608.8631(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.262	(1.136)	35456	0.56420	167.7386
26 Benzo(g,h,i)perylene	276	10.598	10.615	(1.175)	160555	2.37181	705.1457

QC Flag Legend

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

Data File: 1CB20011.D

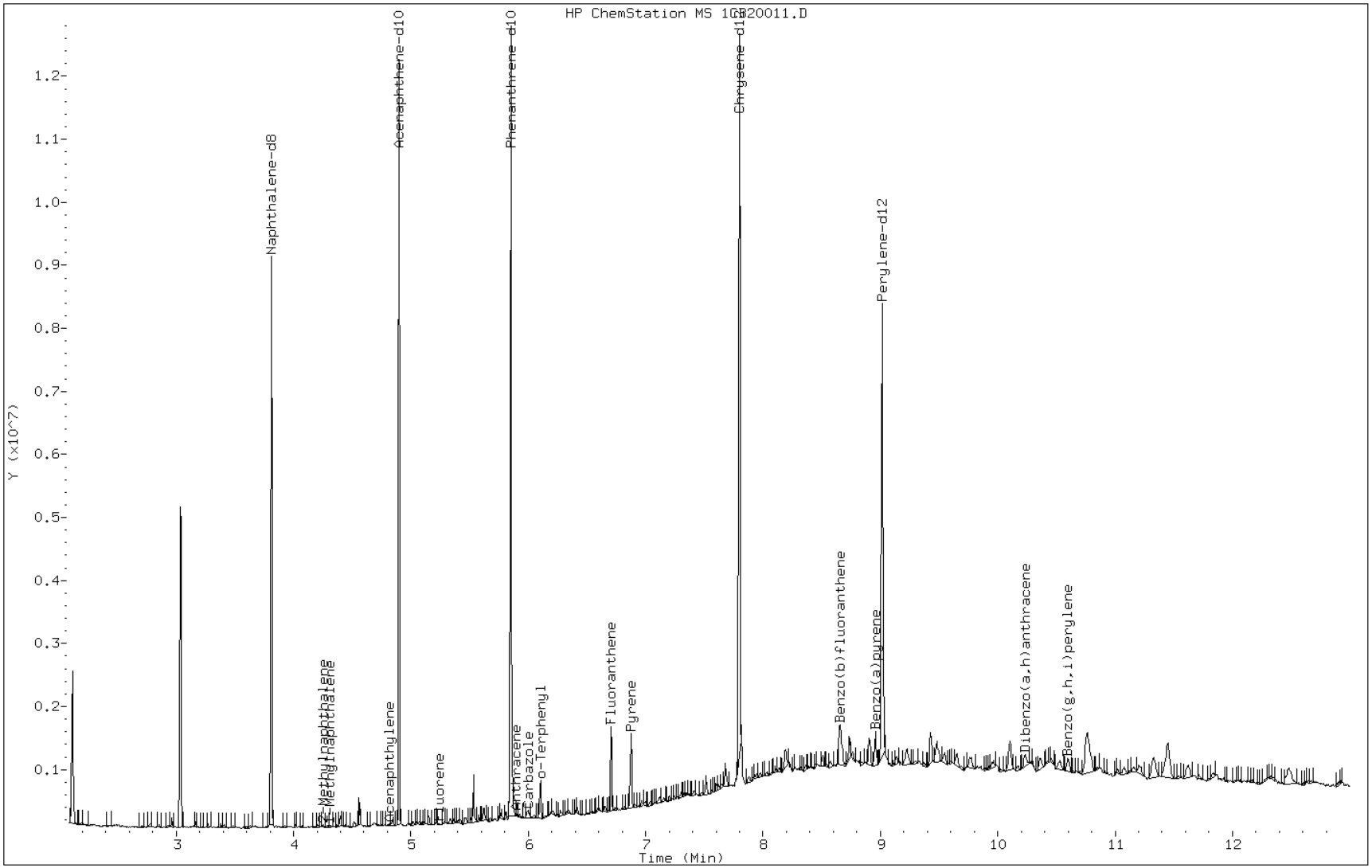
Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a

Operator: SCC



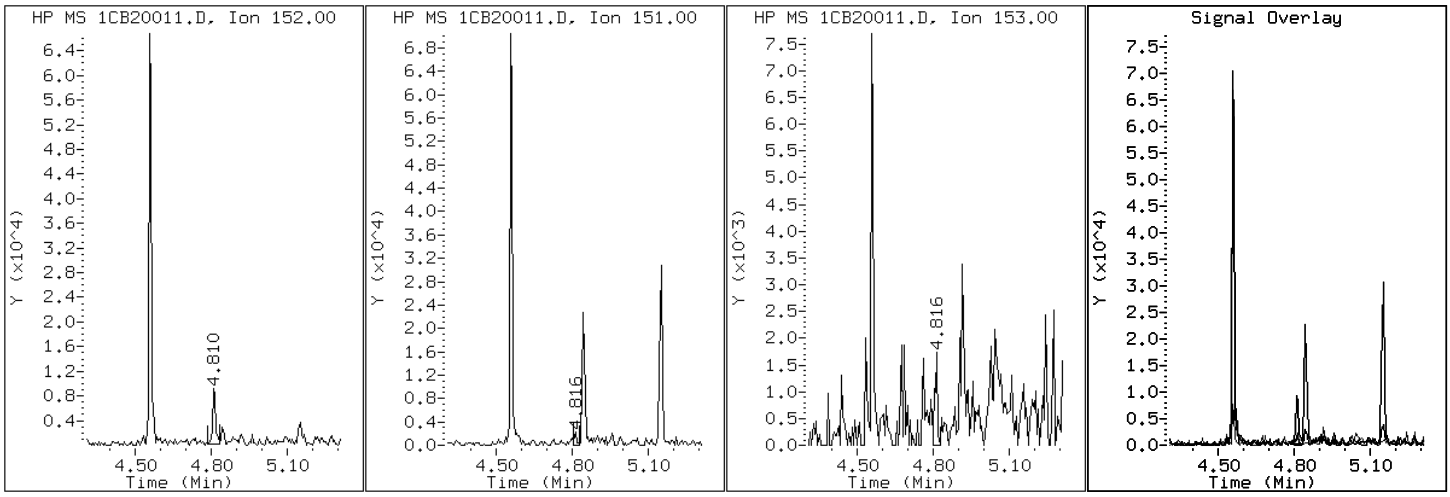
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

5 Acenaphthylene



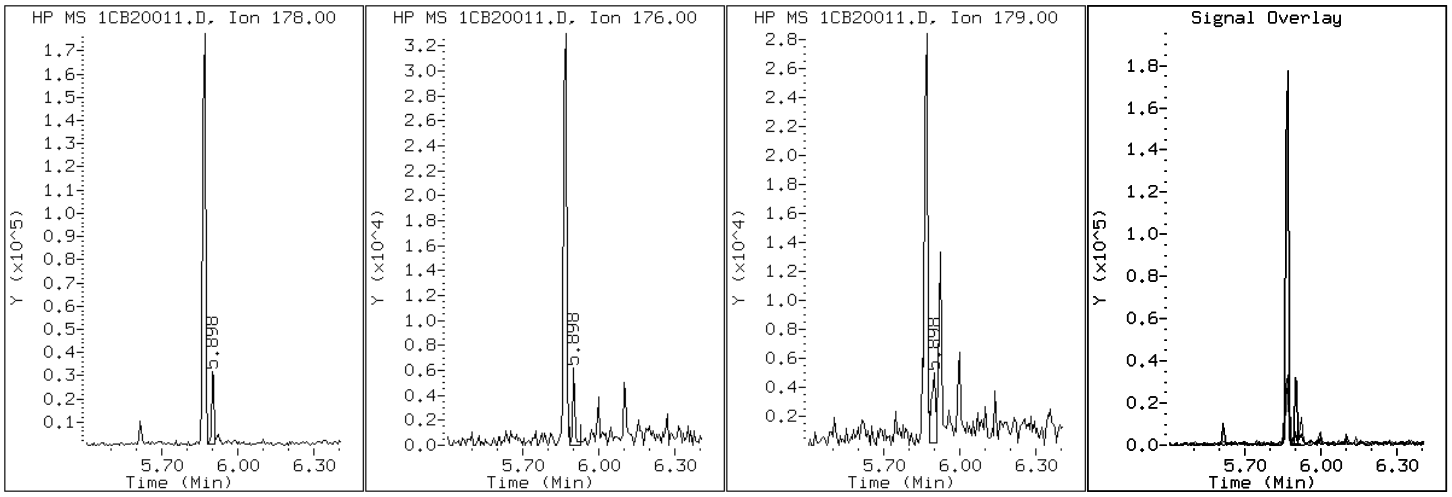
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

12 Anthracene



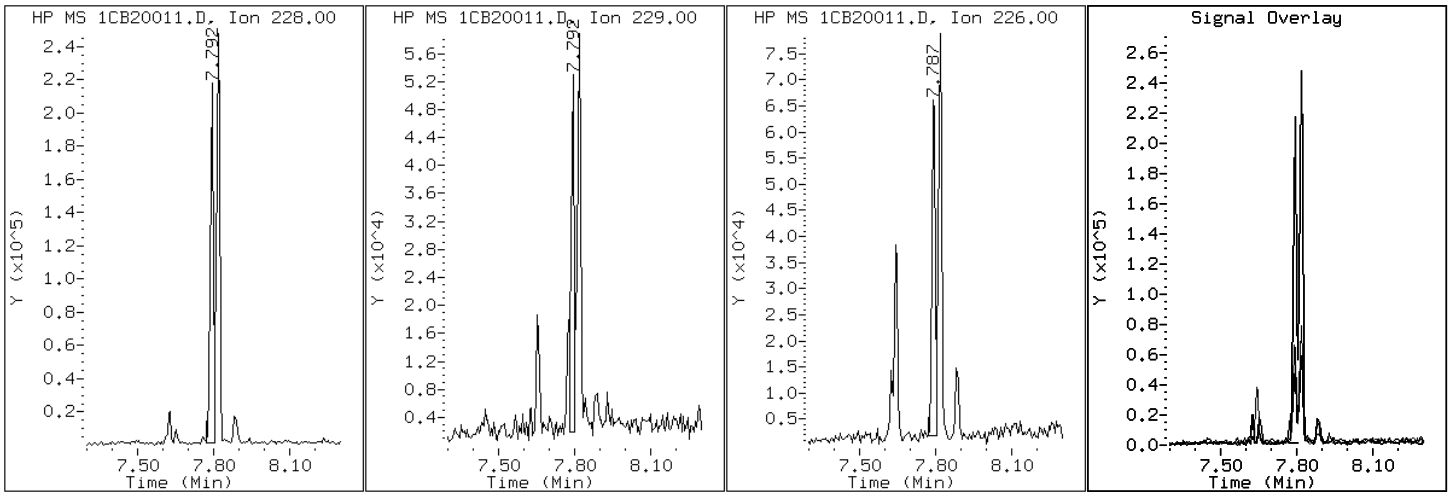
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

17 Benzo(a)anthracene



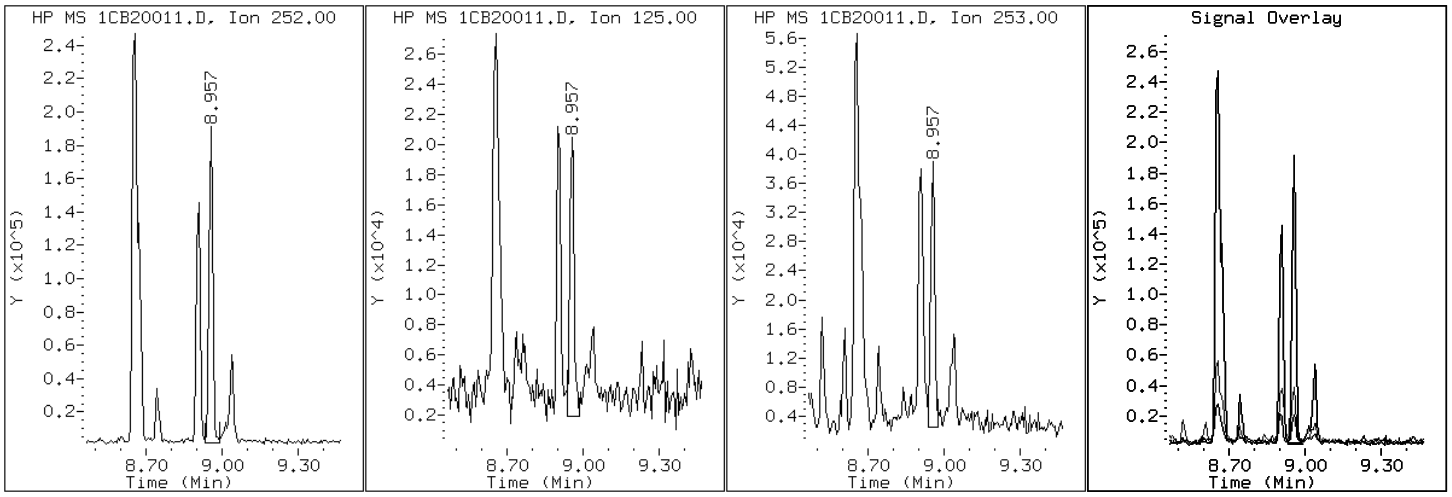
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

22 Benzo(a)pyrene



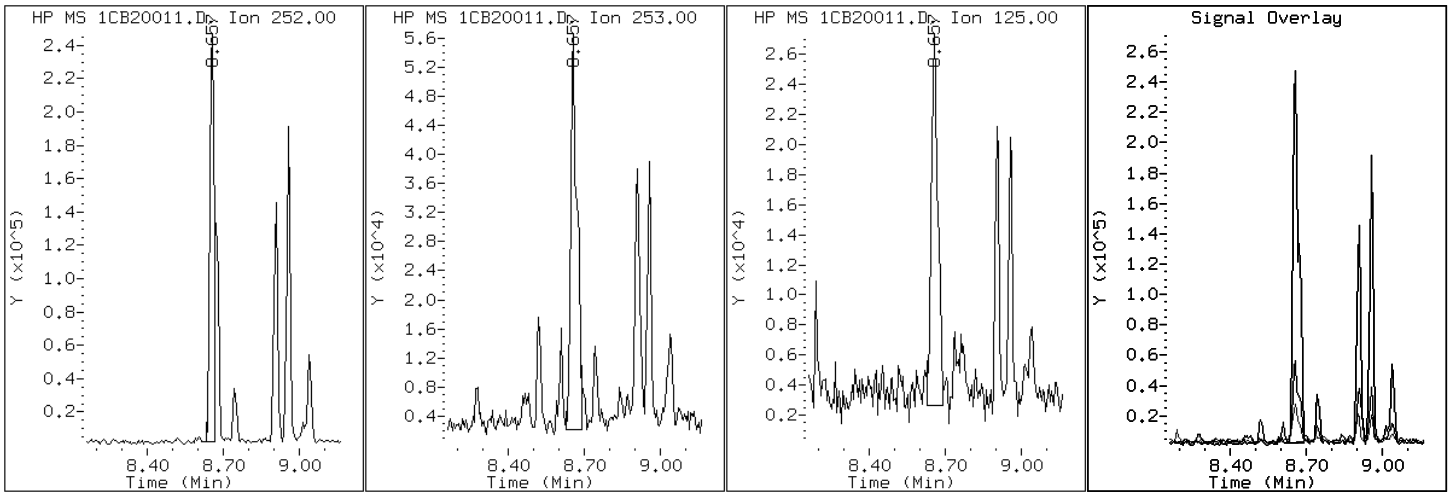
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

20 Benzo(b)fluoranthene



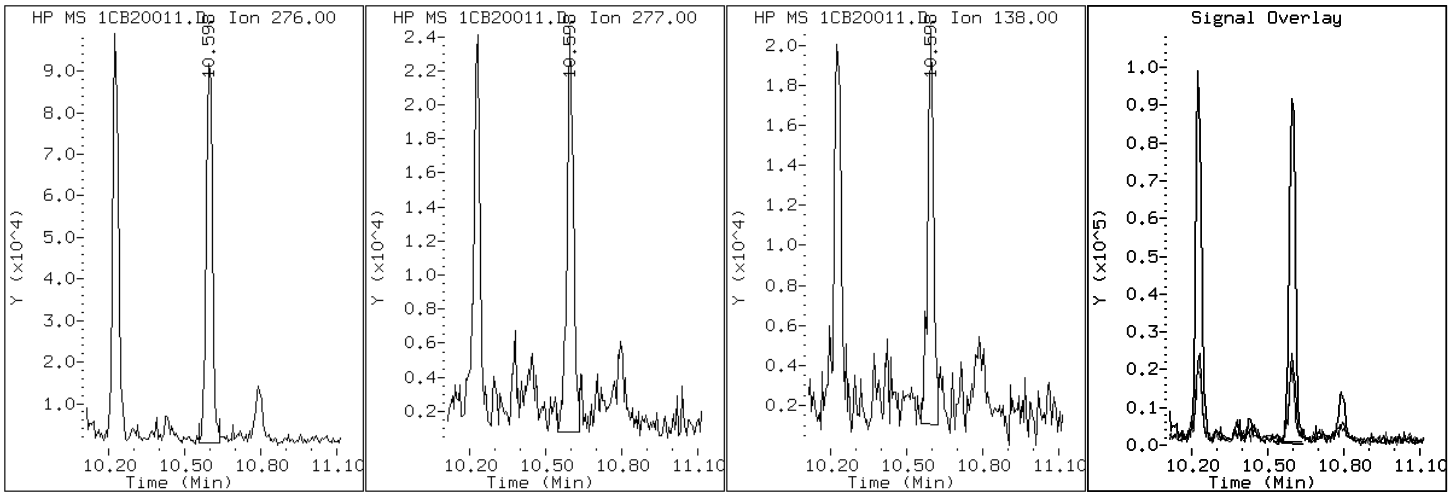
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

26 Benzo(g,h,i)perylene



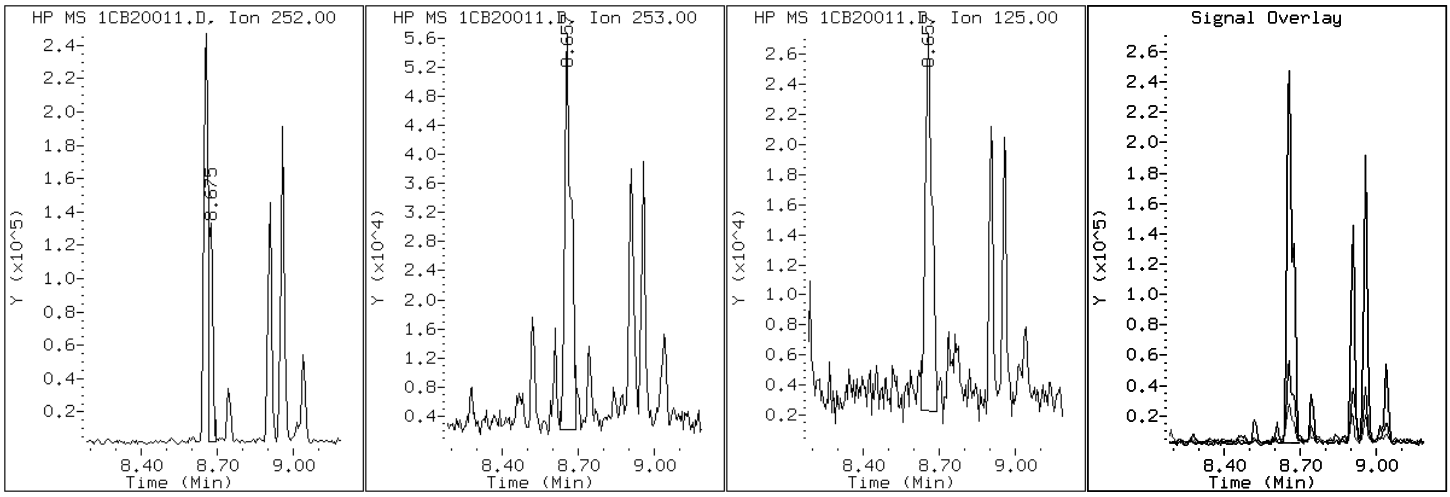
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

21 Benzo(k)fluoranthene



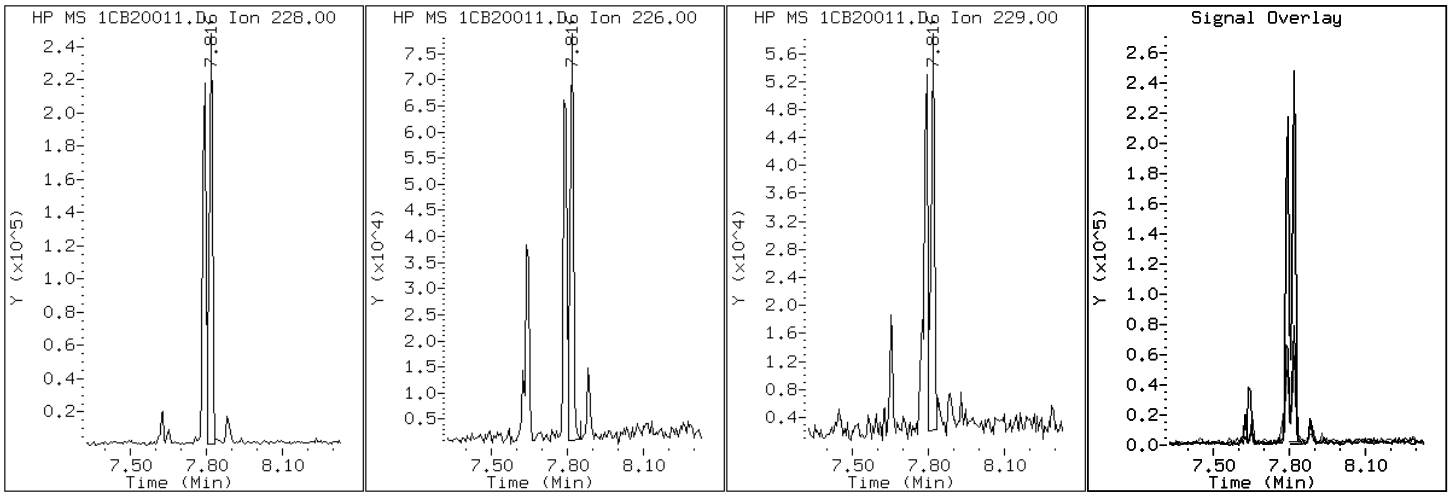
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

19 Chrysene



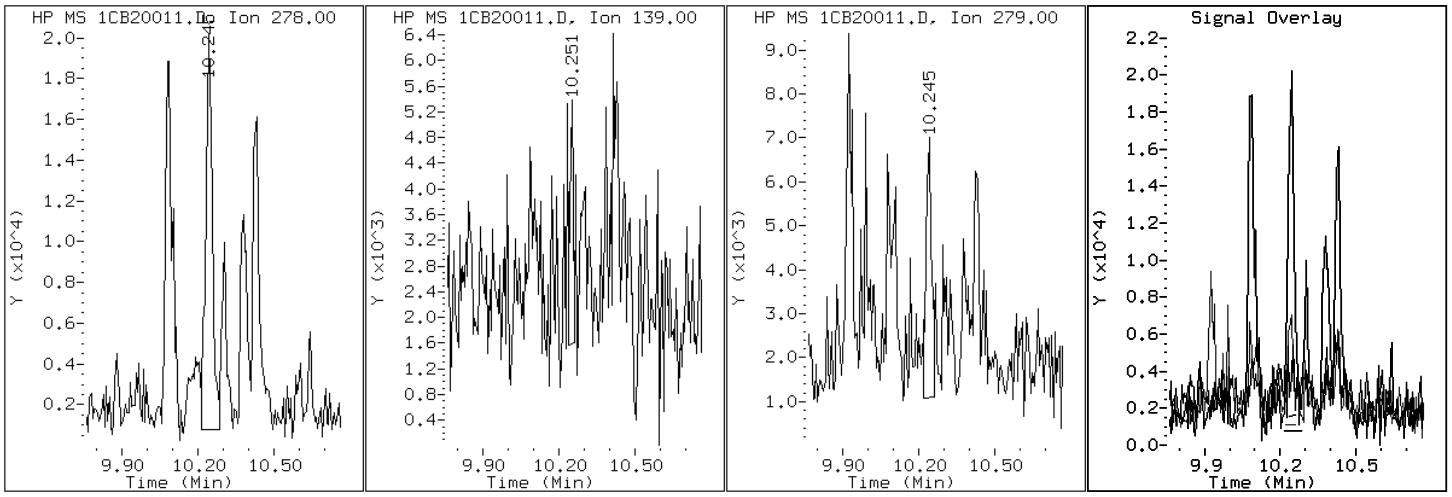
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

25 Dibenzo(a,h)anthracene



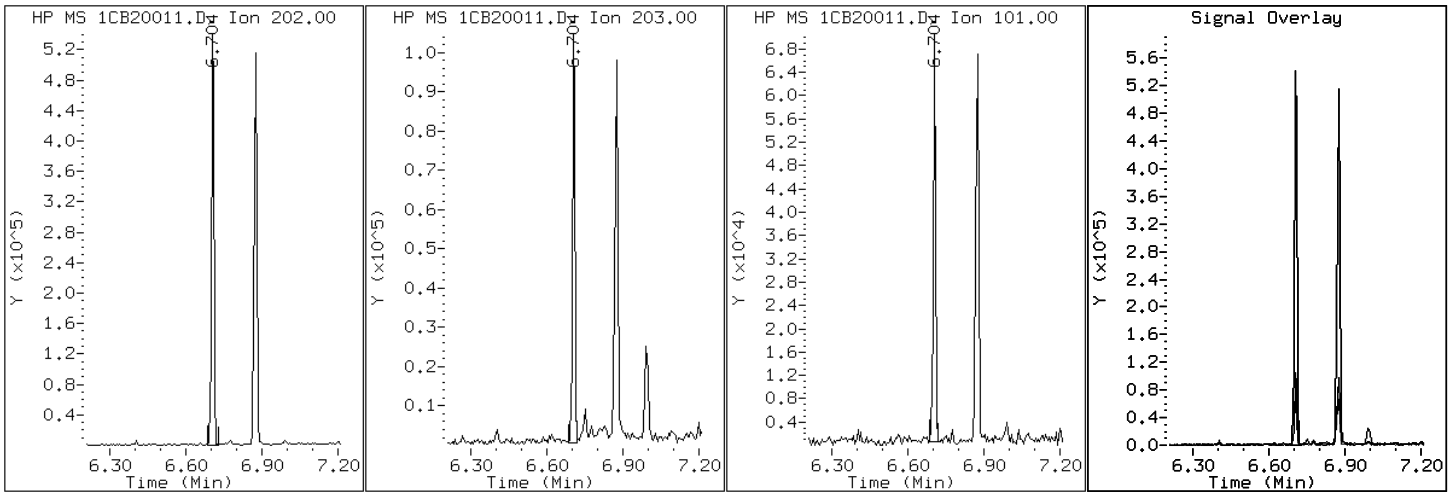
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

15 Fluoranthene



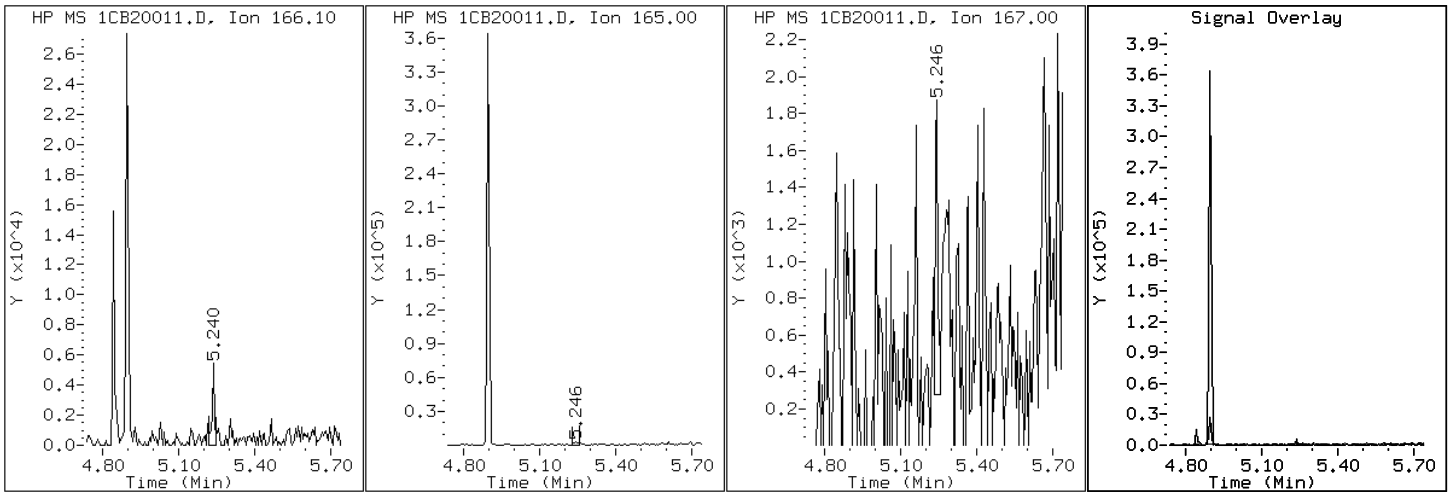
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

9 Fluorene



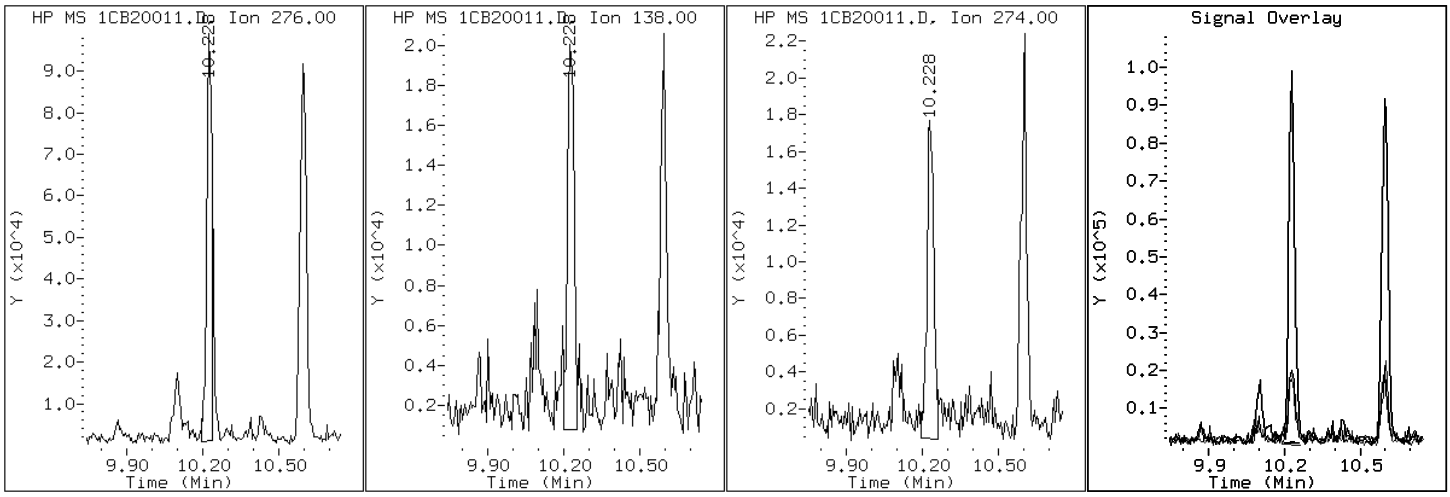
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

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



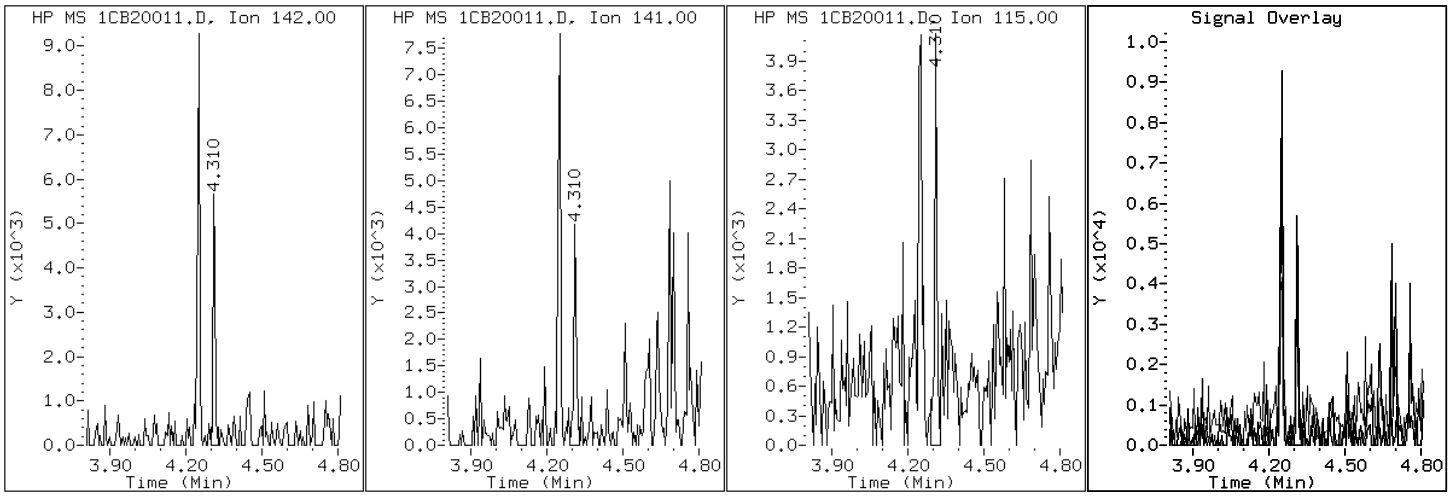
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

4 1-Methylnaphthalene



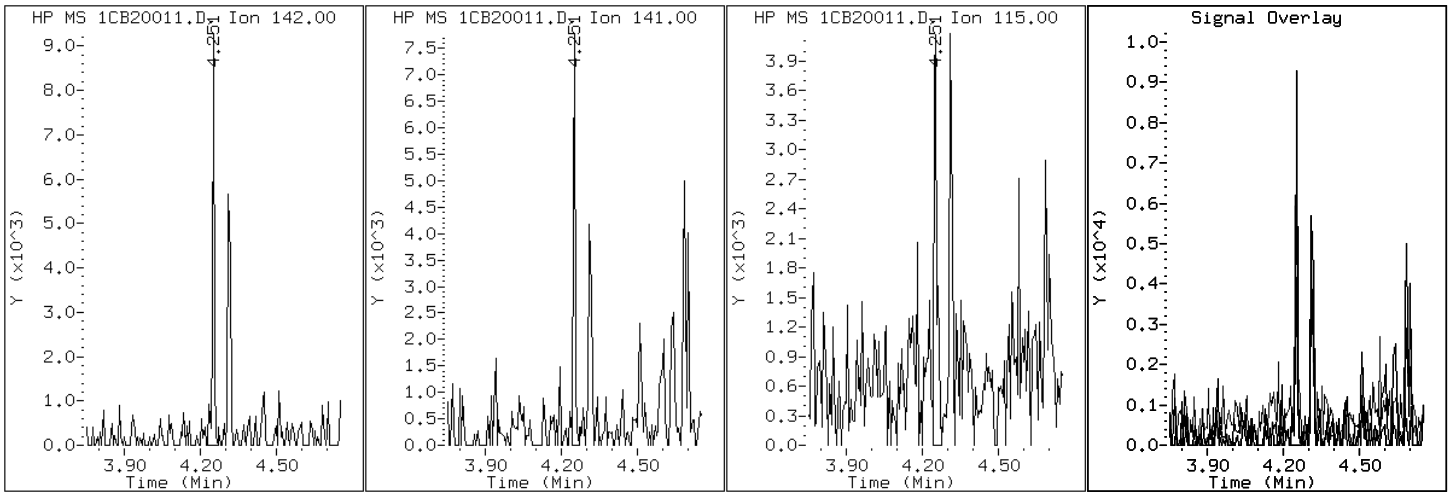
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

3 2-Methylnaphthalene



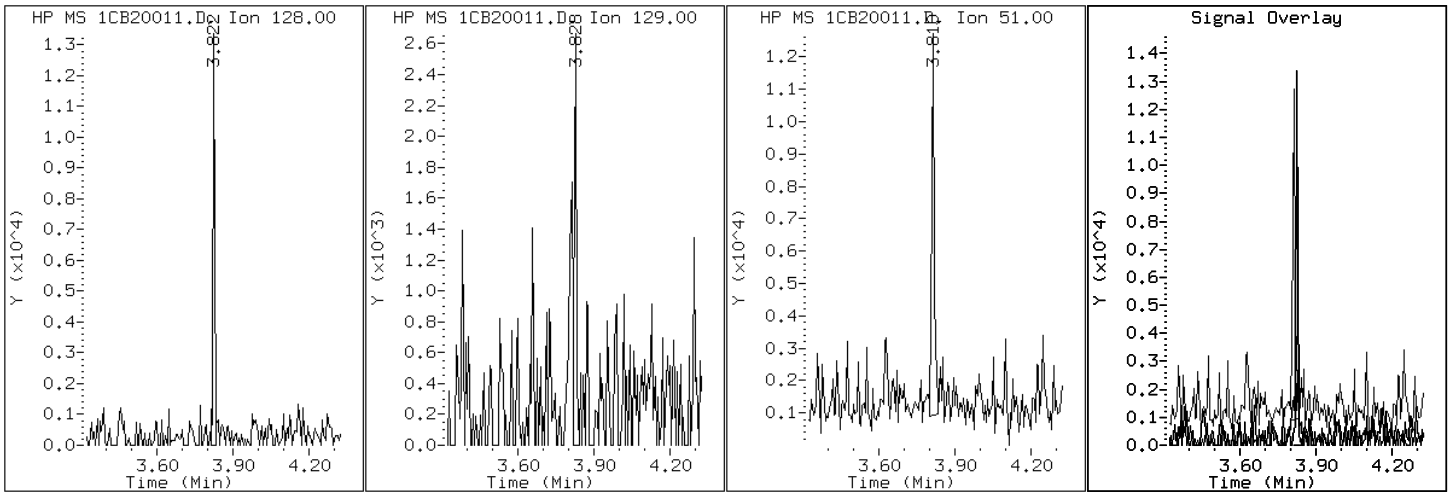
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

2 Naphthalene



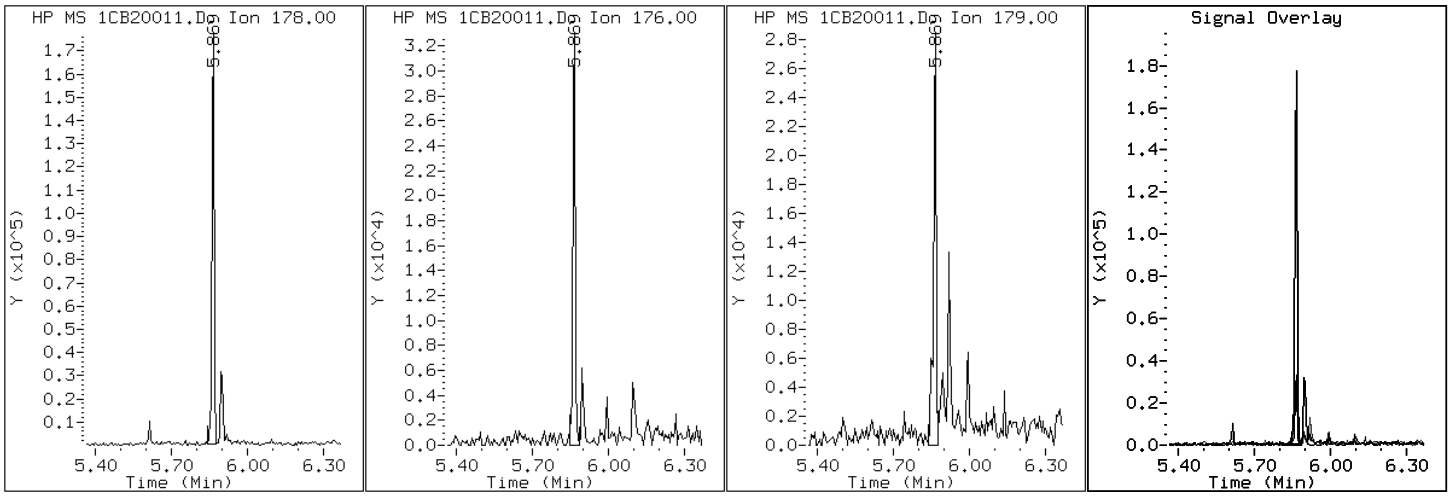
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

11 Phenanthrene



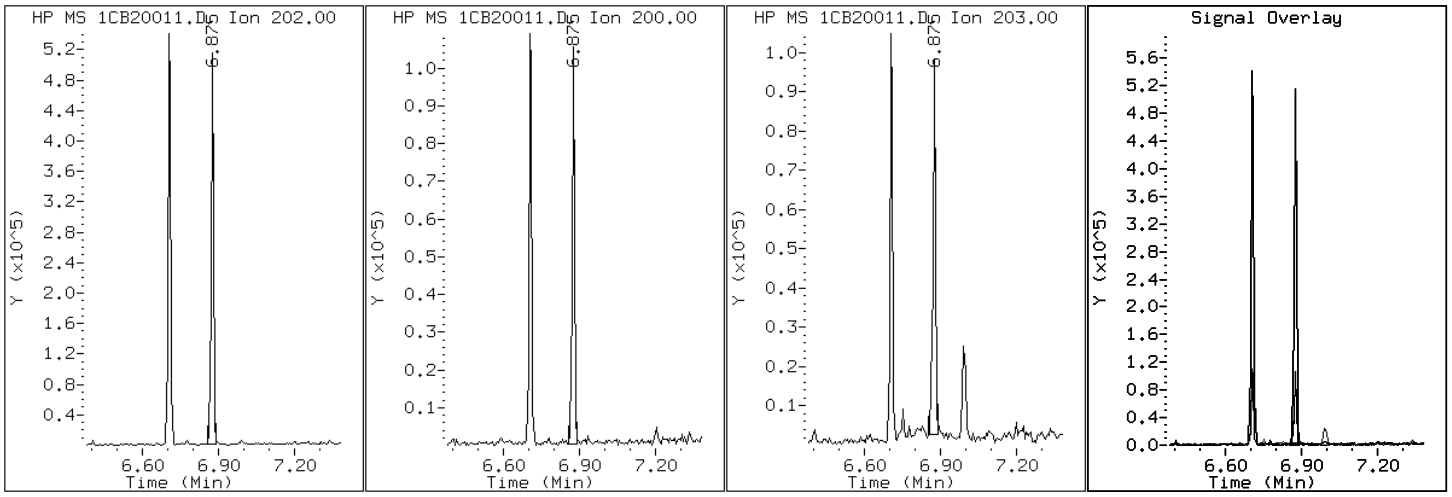
Data File: 1CB20011.D

Date: 20-FEB-2013 16:46

Client ID: CV0962D-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-37-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB20011.D
Inj. Date and Time: 20-FEB-2013 16:46
Instrument ID: BSMC5973.i
Client ID: CV0962D-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

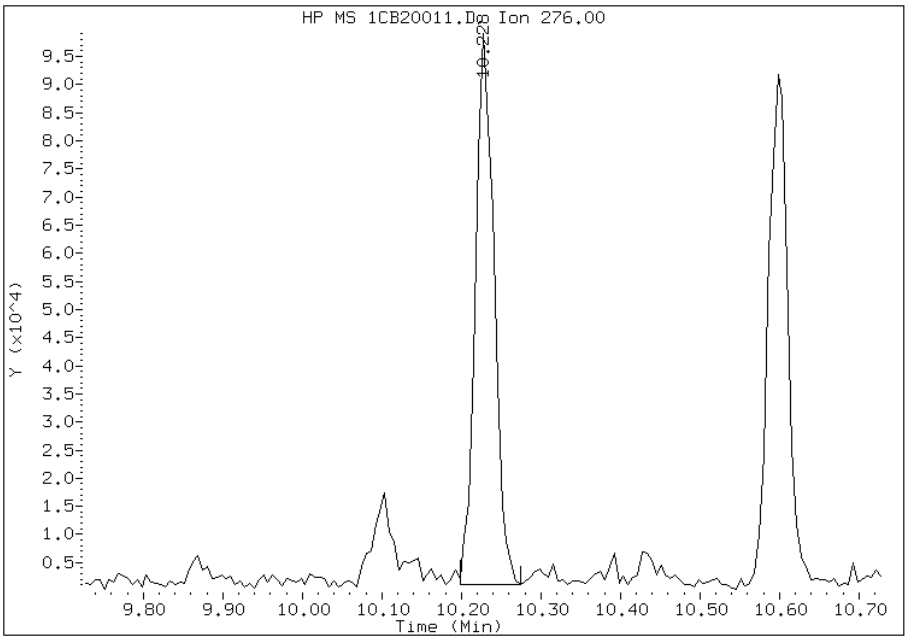
Processing Integration Results

RT: 10.23

Response: 158332

Amount: 2

Conc: 706



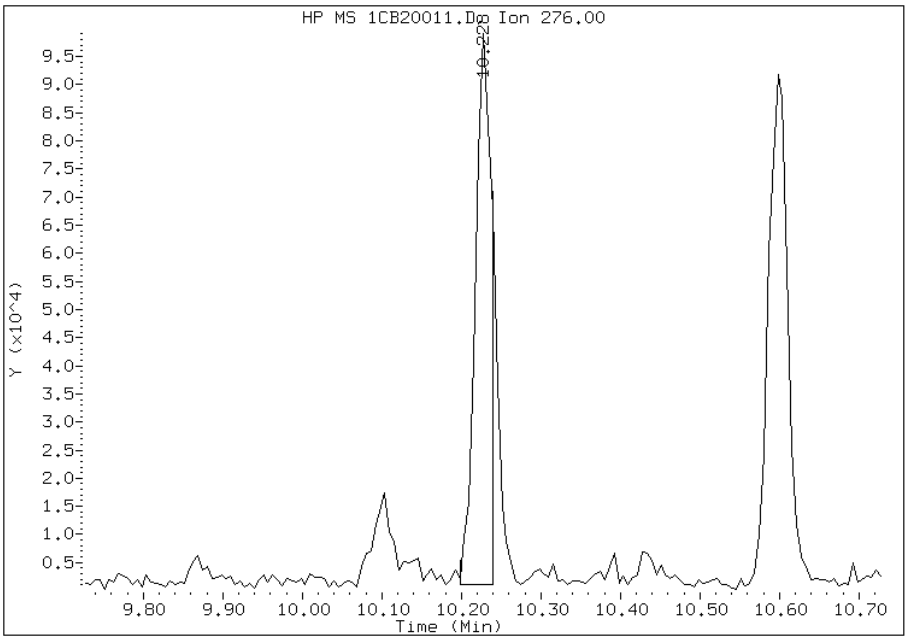
Manual Integration Results

RT: 10.23

Response: 136476

Amount: 2

Conc: 609



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 09:19
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-2 Analy Batch No.: 133227

SDG No.: 68087320-2

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133227/3	1CA07013.D
Level 2	IC 660-133227/4	1CA07014.D
Level 3	IC 660-133227/5	1CA07015.D
Level 4	IC 660-133227/6	1CA07016.D
Level 5	ICIS 660-133227/7	1CA07017.D
Level 6	IC 660-133227/8	1CA07018.D
Level 7	IC 660-133227/9	1CA07019.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.0948 1.0545	0.9495 1.0923	1.1033	1.0932	1.0321	Ave		1.0599			0.0000	5.2		15.0			
2-Methylnaphthalene	0.7336 0.6800	0.6777 0.6981	0.6603	0.7017	0.6730	Ave		0.6892			0.0000	3.5		15.0			
1-Methylnaphthalene	0.5817 0.6643	0.5360 0.6684	0.6316	0.6552	0.6507	Ave		0.6268			0.0000	7.9		15.0			
Acenaphthylene	1.7181 1.6465	1.4412 1.6572	1.4779	1.5857	1.6130	Ave		1.5914			0.0000	6.3		15.0			
Acenaphthene	1.1390 0.9603	1.0282 0.9633	0.9458	1.0094	0.9406	Ave		0.9981			0.0000	7.0		15.0			
Fluorene	1.3483 1.3015	1.2058 1.2912	1.2211	1.3274	1.2732	Ave		1.2812			0.0000	4.1		15.0			
Phenanthrene	1.5909 1.1271	1.1807 1.1120	1.0815	1.1674	1.0983	Ave		1.1940			0.0000	15.0		15.0			
Anthracene	1.0132 1.1091	0.9972 1.1231	1.0674	1.1234	1.0967	Ave		1.0757			0.0000	4.8		15.0			
Carbazole	0.8906 0.9895	0.8628 0.9866	0.8811	0.9644	0.9658	Ave		0.9344			0.0000	5.8		15.0			
Fluoranthene	0.9799 1.2313	1.0735 1.2497	1.1621	1.2234	1.2469	Ave		1.1667			0.0000	8.9		15.0			
Pyrene	0.8059 1.1858	1.0113 1.1112	1.0616	1.1543	1.1241	Ave		1.0649			0.0000	12.0		15.0			
Benzo[a]anthracene	1.4670 1.0800	0.9986 1.0530	1.0400	1.0600	1.0228	Ave		1.1031			0.0000	14.7		15.0			
Chrysene	1.2057 1.1045	1.2101 1.0821	1.1125	1.1626	1.0982	Ave		1.1394			0.0000	4.7		15.0			
Benzo[b]fluoranthene	0.8713 1.0190	0.8691 1.1293	0.9456	1.0325	0.9979	Ave		0.9807			0.0000	9.5		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-2 Analy Batch No.: 133227

SDG No.: 68087320-2

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9252 1.2002	0.9572 1.1097	1.0697	1.1497	1.1509	Ave		1.0804			0.0000	9.6		15.0			
Benzo[a]pyrene	0.7248 1.0316	0.8455 1.0436	0.9117	0.9956	0.9794	Ave		0.9332			0.0000	12.3		15.0			
Indeno[1,2,3-cd]pyrene	0.6998 0.9422	0.4820 0.8813	0.8137	0.8316	0.9002	LinF		0.8963			0.0000				0.9980		0.9900
Dibenz(a,h)anthracene	0.7712 0.9005	0.7805 0.9132	0.8152	0.8774	0.8585	Ave		0.8452			0.0000	6.7		15.0			
Benzo[g,h,i]perylene	0.8112 0.9967	0.7908 0.9698	0.9172	0.9667	0.9207	Ave		0.9104			0.0000	8.8		15.0			
o-Terphenyl	0.5355 0.5984	0.5589 0.5994	0.5931	0.6168	0.6005	Ave		0.5861			0.0000	4.8		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-2 Analy Batch No.: 133227

SDG No.: 68087320-2

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133227/3	1CA07013.D
Level 2	IC 660-133227/4	1CA07014.D
Level 3	IC 660-133227/5	1CA07015.D
Level 4	IC 660-133227/6	1CA07016.D
Level 5	ICIS 660-133227/7	1CA07017.D
Level 6	IC 660-133227/8	1CA07018.D
Level 7	IC 660-133227/9	1CA07019.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	11168 1744899	49180 2683662	279616	562439	1132608	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7484 1125305	35101 1715115	167348	360991	738557	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	5934 1099203	27760 1642265	160060	337071	714057	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	13060 2078096	55638 3143102	277566	597168	1333542	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8658 1212087	39694 1826987	177622	380155	777625	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10249 1642686	46551 2448772	229328	499898	1052584	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	22944 2725408	87138 3980821	382657	852208	1725035	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	14612 2681981	73594 4020655	377684	820090	1722588	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	12845 2392859	63677 3531798	311754	704012	1516911	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	14132 2977438	79223 4473693	411201	893123	1958378	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13699 3254878	87607 4789001	444176	1032505	2128584	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	24935 2964525	86510 4538204	435113	948119	1936797	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	20495 3031738	104834 4663655	465452	1039885	2079538	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	15170 2773683	75135 4834833	409334	924867	1891292	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	16108 3267104	82752 4750961	463057	1029821	2181246	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-2 Analy Batch No.: 133227

SDG No.: 68087320-2

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	12619 2808161	73092 4467973	394642	891772	1856241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	LinF	12184 2564602	41666 3772962	352250	744949	1706161	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13428 2451088	67472 3909634	352888	785898	1627151	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14123 2713188	68360 4151782	397056	865965	1745002	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7723 1447125	41244 2145891	209857	450297	943151	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07013.D
Lab Smp Id: IC-1489894
Inj Date : 07-JAN-2013 15:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2040281	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1520300	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2884412	40.0000	
$ 14 o-Terphenyl	230	6.162	6.162	(1.042)	7723	0.20000	0.1827
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3399562	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3482211	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	11168	0.20000	0.2065(Q)
3 2-Methylnaphthalene	142	4.304	4.304	(1.113)	7484	0.20000	0.2128
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	5934	0.20000	0.1855
5 Acenaphthylene	152	4.868	4.868	(0.982)	13060	0.20000	0.2159
7 Acenaphthene	154	4.974	4.974	(1.004)	8658	0.20000	0.2282
9 Fluorene	166	5.298	5.298	(1.069)	10249	0.20000	0.2104
11 Phenanthrene	178	5.927	5.927	(1.002)	22944	0.20000	0.2664
12 Anthracene	178	5.962	5.962	(1.008)	14612	0.20000	0.1883
13 Carbazole	167	6.074	6.074	(1.027)	12845	0.20000	0.1906
15 Fluoranthene	202	6.774	6.774	(1.145)	14132	0.20000	0.1679
16 Pyrene	202	6.945	6.945	(0.883)	13699	0.20000	0.1513
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	24935	0.20000	0.2659
19 Chrysene	228	7.886	7.886	(1.002)	20495	0.20000	0.2116
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	15170	0.20000	0.1776
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	16108	0.20000	0.1712(M)
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	12619	0.20000	0.1553
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	12184	0.20000	0.1764(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	13428	0.20000	0.1824(M)
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	14123	0.20000	0.1781(M)

QC Flag Legend

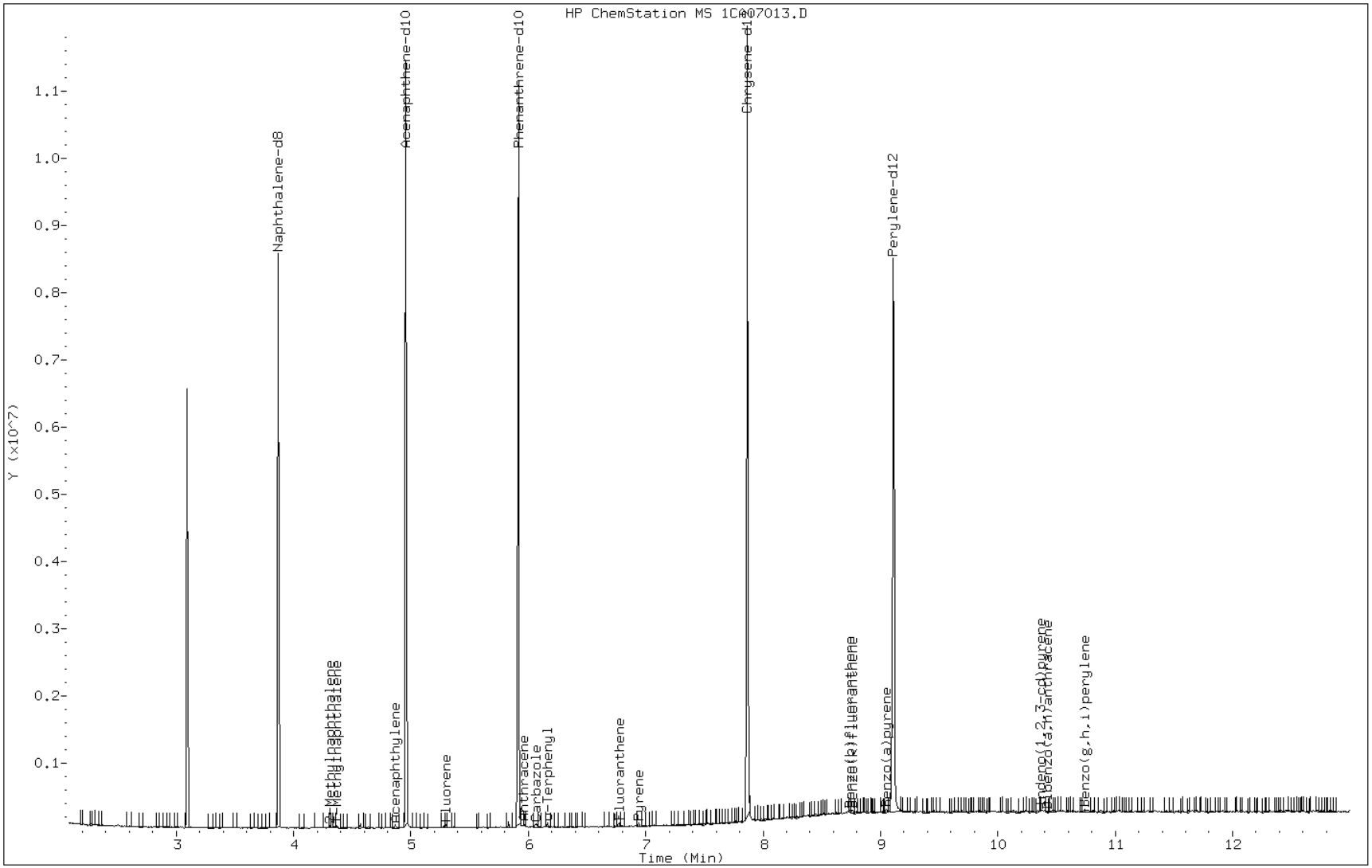
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07013.D

Date: 07-JAN-2013 15:23

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/08/2013

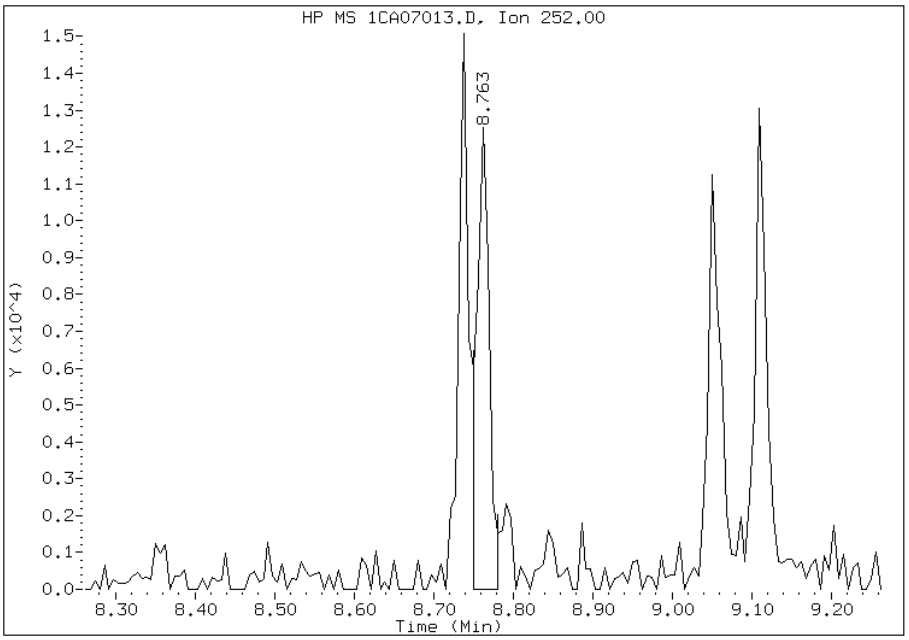
Processing Integration Results

RT: 8.76

Response: 14049

Amount: 0

Conc: 0



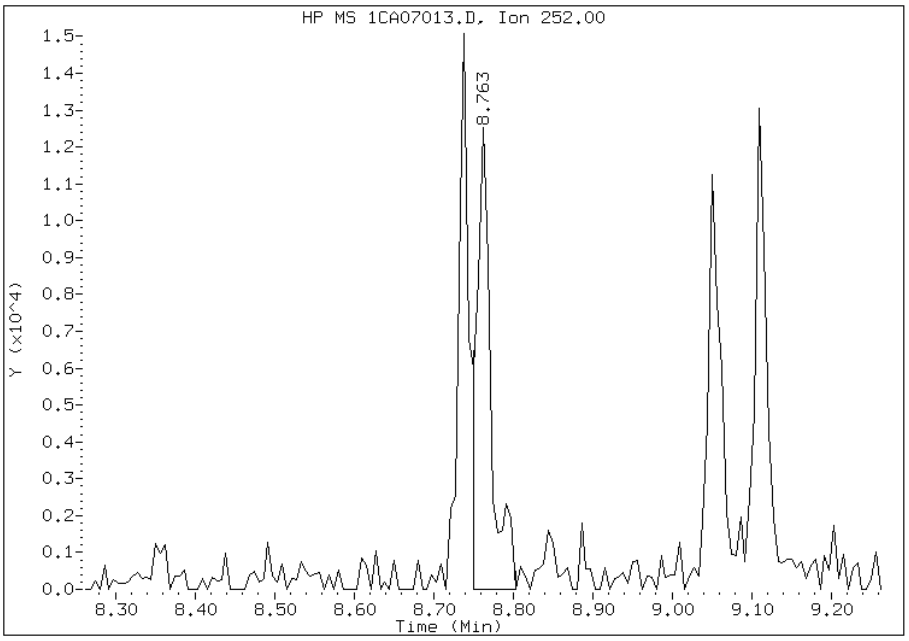
Manual Integration Results

RT: 8.76

Response: 16108

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

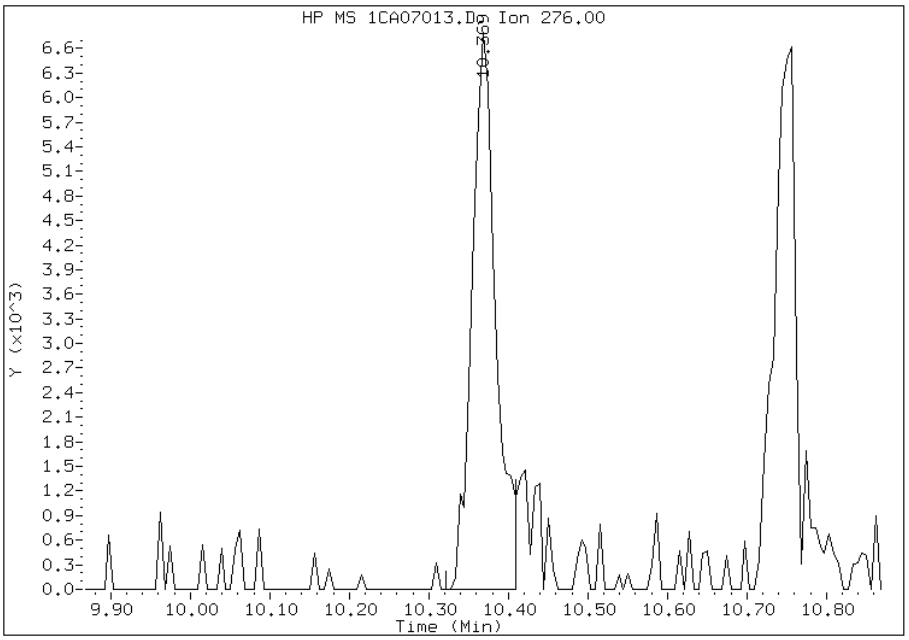
Processing Integration Results

RT: 10.37

Response: 14154

Amount: 0

Conc: 0



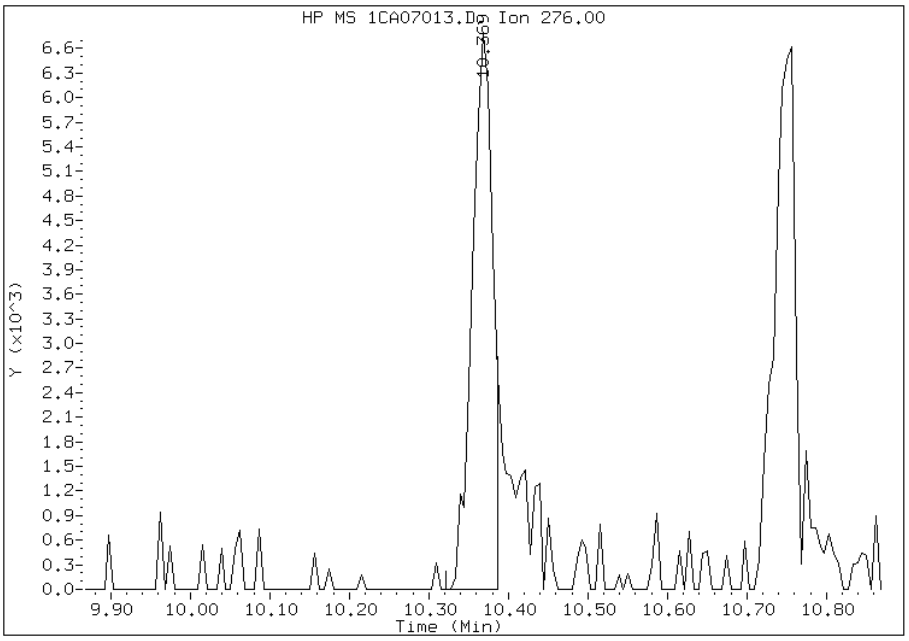
Manual Integration Results

RT: 10.37

Response: 12184

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

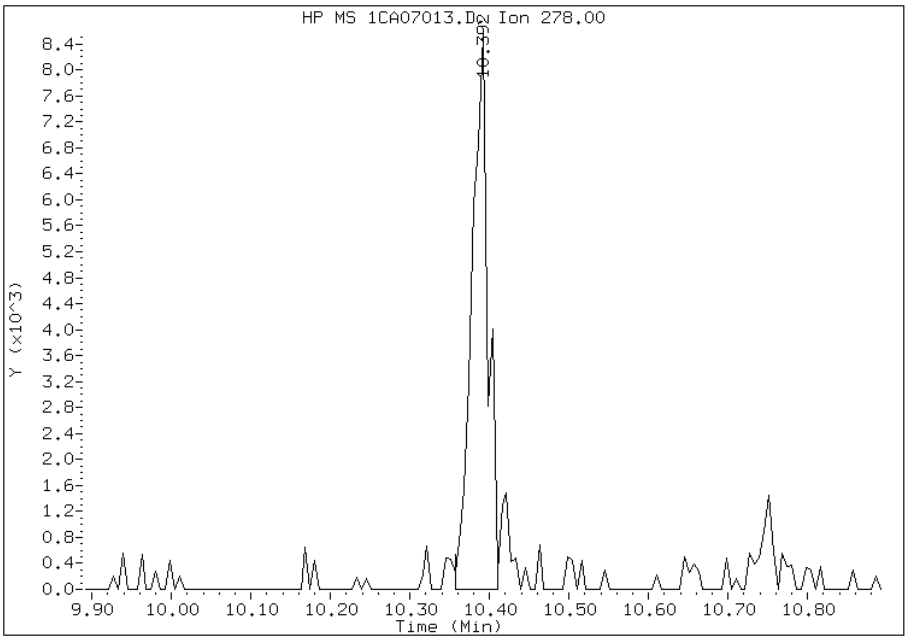
Processing Integration Results

RT: 10.39

Response: 12138

Amount: 0

Conc: 0



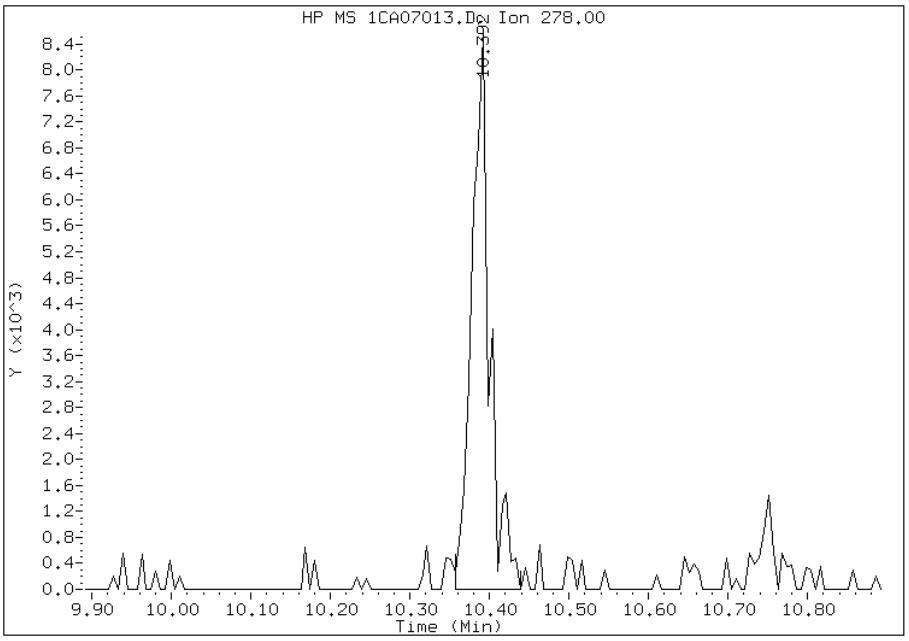
Manual Integration Results

RT: 10.39

Response: 13428

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

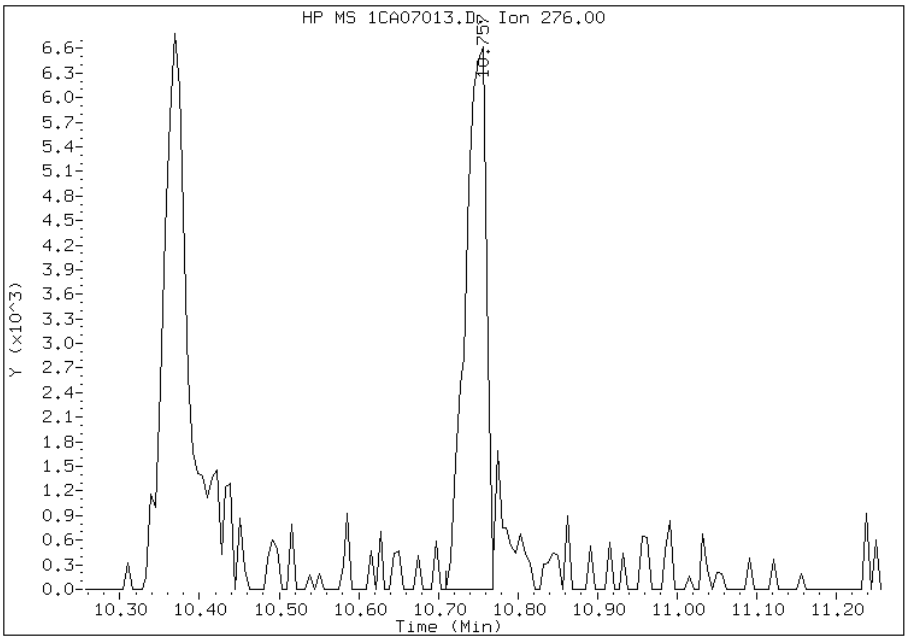
Processing Integration Results

RT: 10.76

Response: 12183

Amount: 0

Conc: 0



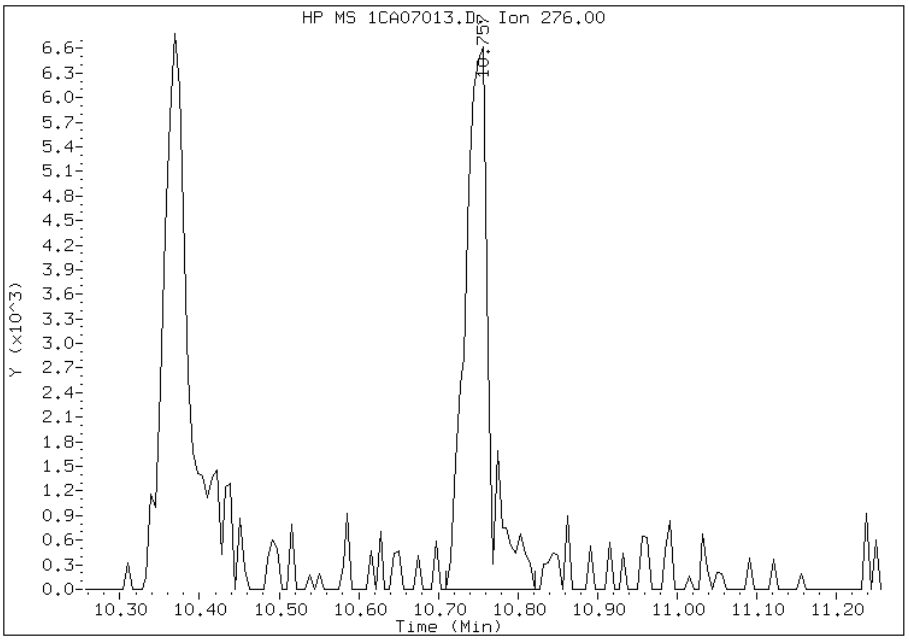
Manual Integration Results

RT: 10.76

Response: 14123

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07014.D
Lab Smp Id: IC-1489895
Inj Date : 07-JAN-2013 15:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:23 Cal File: 1CA07013.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2071724	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1544247	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2952062	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	41244	1.00000	0.9535
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3465163	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3457962	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	49180	1.00000	0.8958(Q)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	35101	1.00000	0.9833
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	27760	1.00000	0.8550
5 Acenaphthylene	152	4.868	4.868	(0.982)	55638	1.00000	0.9056
7 Acenaphthene	154	4.974	4.974	(1.004)	39694	1.00000	1.0301
9 Fluorene	166	5.298	5.298	(1.069)	46551	1.00000	0.9411
11 Phenanthrene	178	5.933	5.933	(1.003)	87138	1.00000	0.9888
12 Anthracene	178	5.962	5.962	(1.008)	73594	1.00000	0.9269
13 Carbazole	167	6.074	6.074	(1.027)	63677	1.00000	0.9233
15 Fluoranthene	202	6.774	6.774	(1.145)	79223	1.00000	0.9201
16 Pyrene	202	6.945	6.945	(0.883)	87607	1.00000	0.9496
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	86510	1.00000	0.9053
19 Chrysene	228	7.886	7.886	(1.002)	104834	1.00000	1.0620(M)
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	75135	1.00000	0.8862
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	82752	1.00000	0.8860
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	73092	1.00000	0.9060
24 Indeno(1,2,3-cd)pyrene	276	10.362	10.362	(1.138)	41666	1.00000	0.6078(M)
25 Dibenzo(a,h)anthracene	278	10.380	10.380	(1.139)	67472	1.00000	0.9234(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	68360	1.00000	0.8685(M)

QC Flag Legend

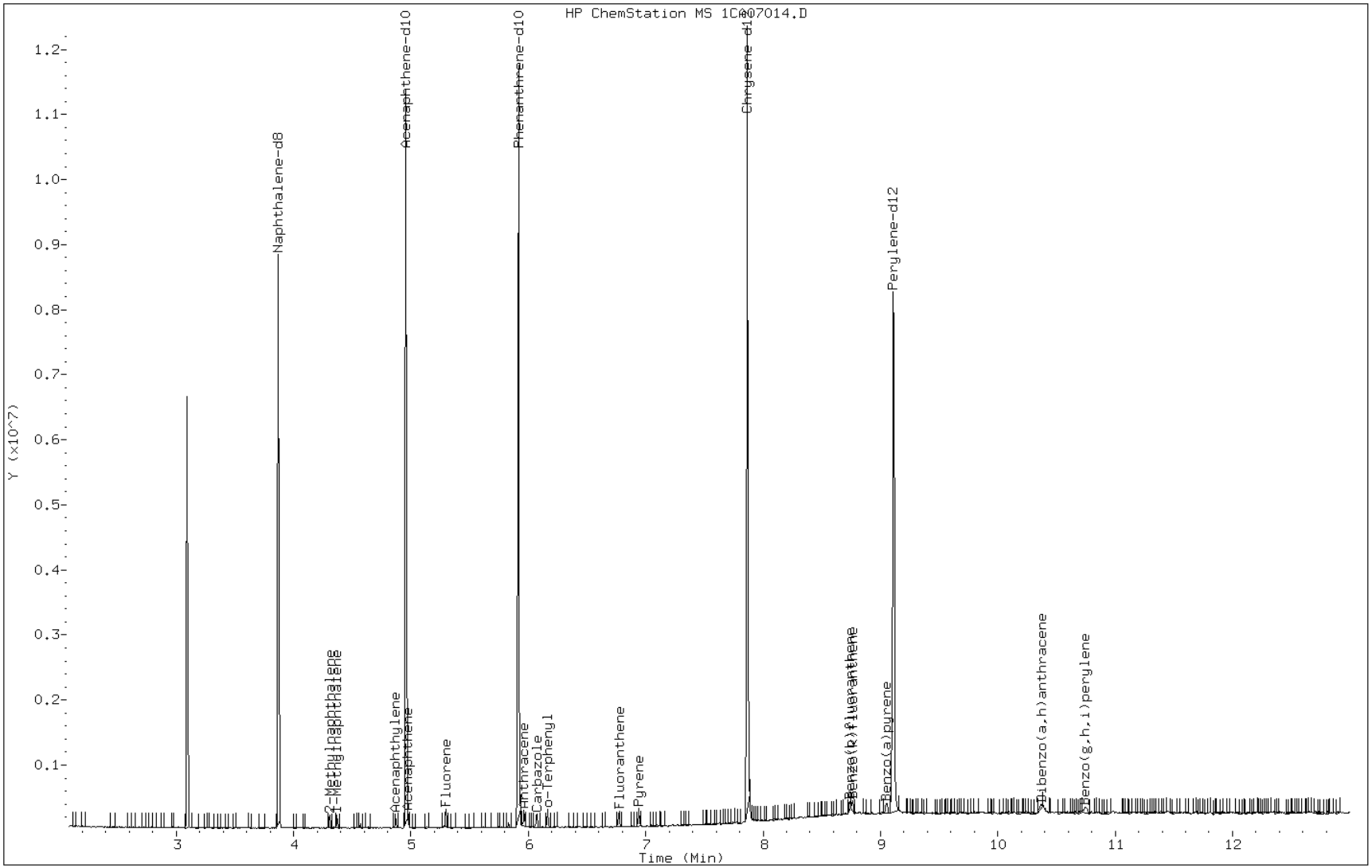
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07014.D

Date: 07-JAN-2013 15:41

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 01/08/2013

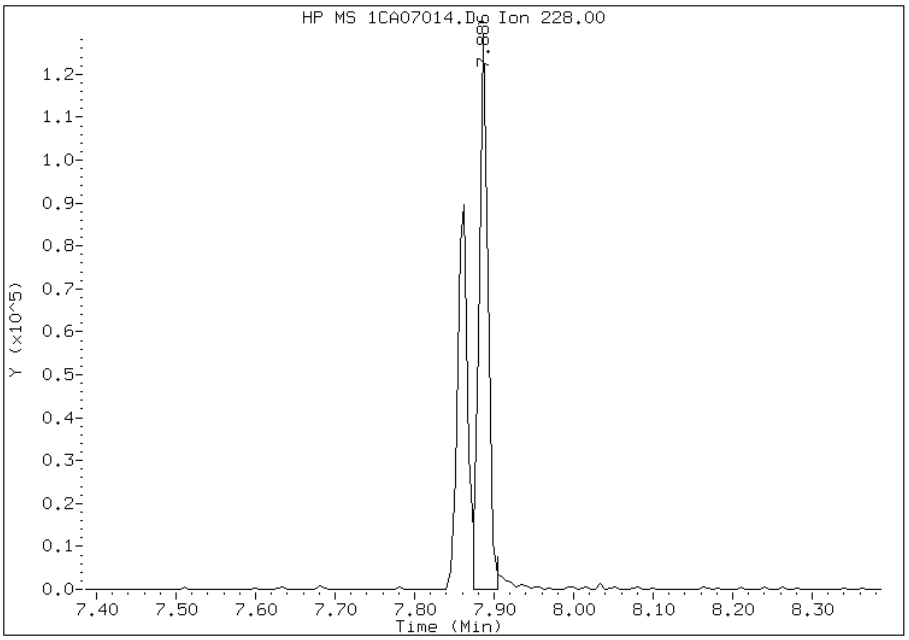
Processing Integration Results

RT: 7.89

Response: 101100

Amount: 1

Conc: 1



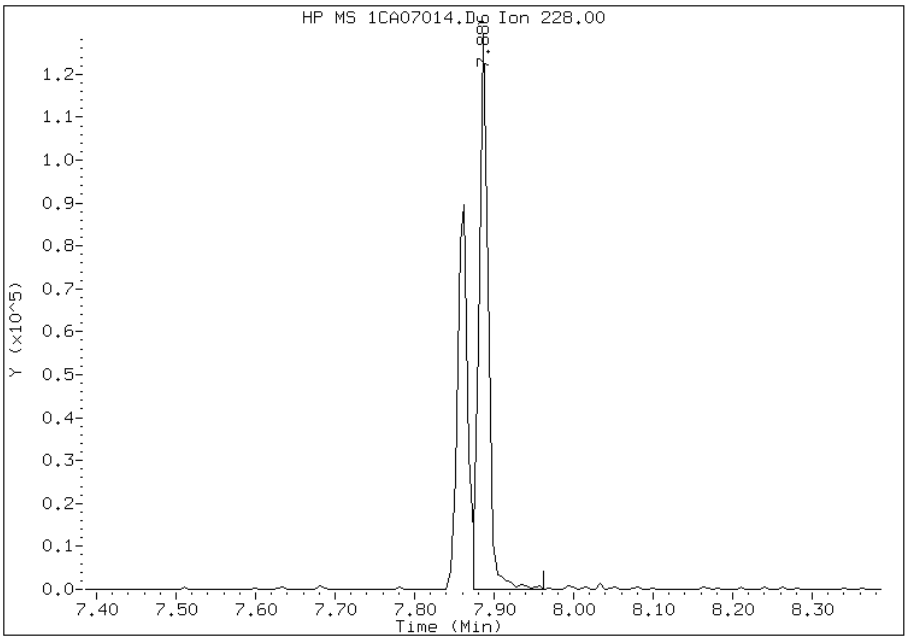
Manual Integration Results

RT: 7.89

Response: 104834

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

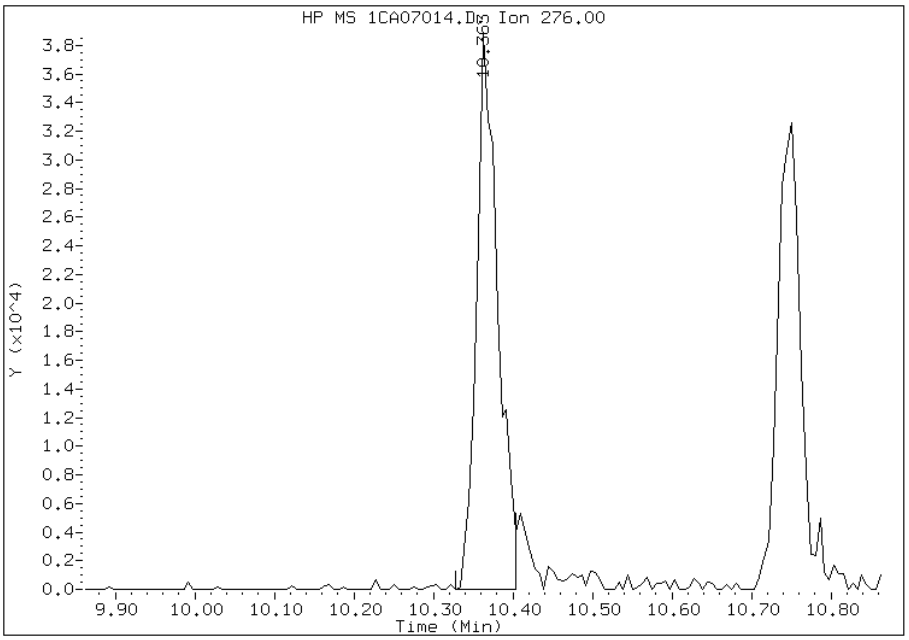
Processing Integration Results

RT: 10.36

Response: 72270

Amount: 1

Conc: 1



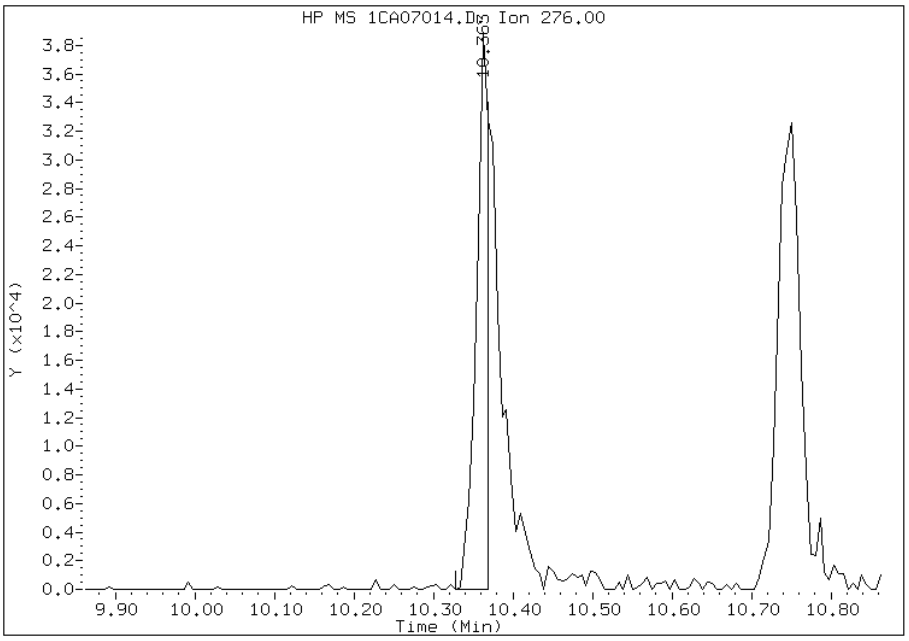
Manual Integration Results

RT: 10.36

Response: 41666

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

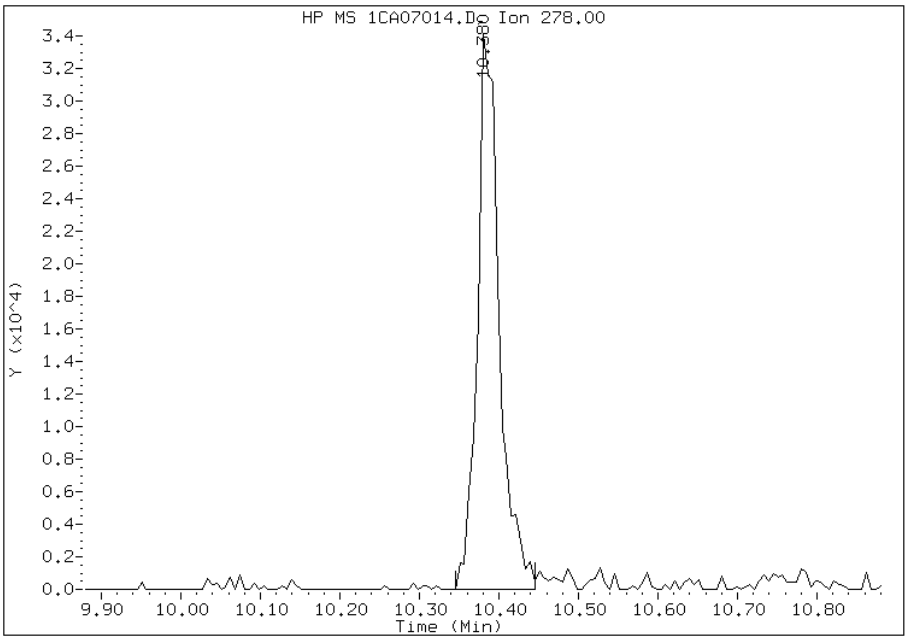
Processing Integration Results

RT: 10.38

Response: 65243

Amount: 1

Conc: 1



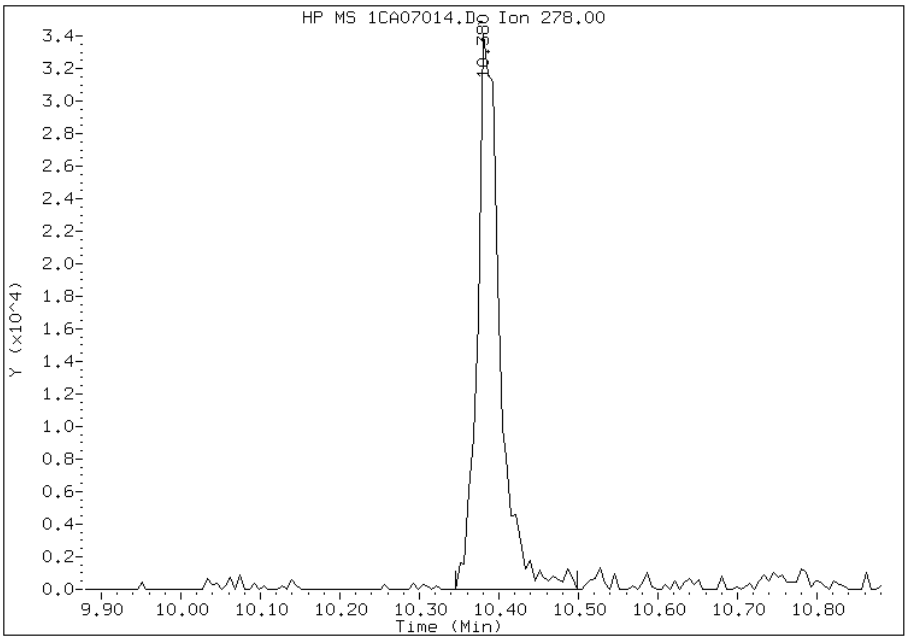
Manual Integration Results

RT: 10.38

Response: 67472

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

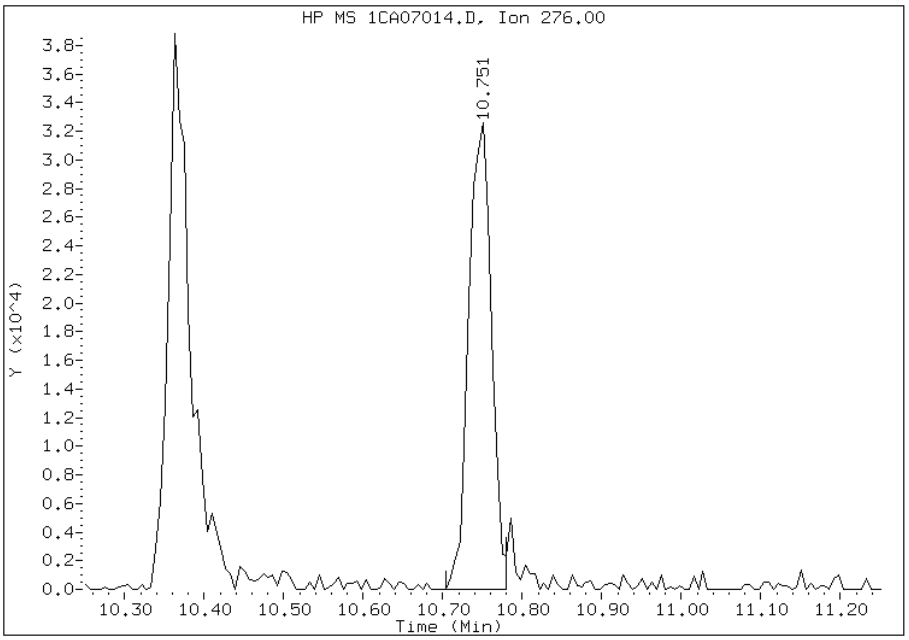
Processing Integration Results

RT: 10.75

Response: 64475

Amount: 1

Conc: 1



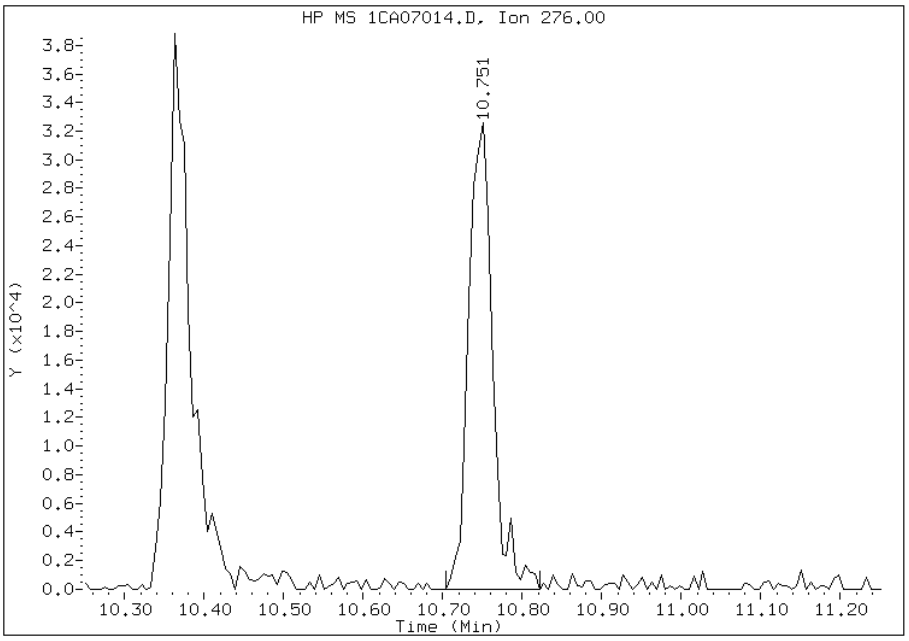
Manual Integration Results

RT: 10.75

Response: 68360

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07015.D
Lab Smp Id: IC-1489896
Inj Date : 07-JAN-2013 15:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:41 Cal File: 1CA07014.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2027501	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1502475	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2830661	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	209857	5.00000	5.0597
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3347096	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3463066	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	279616	5.00000	5.2044
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	167348	5.00000	4.7904
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	160060	5.00000	5.0377
5 Acenaphthylene	152	4.869	4.869	(0.982)	277566	5.00000	4.6435
7 Acenaphthene	154	4.974	4.974	(1.004)	177622	5.00000	4.7378
9 Fluorene	166	5.298	5.298	(1.069)	229328	5.00000	4.7653
11 Phenanthrene	178	5.927	5.927	(1.002)	382657	5.00000	4.5288
12 Anthracene	178	5.963	5.963	(1.008)	377684	5.00000	4.9613
13 Carbazole	167	6.074	6.074	(1.027)	311754	5.00000	4.7146
15 Fluoranthene	202	6.774	6.774	(1.145)	411201	5.00000	4.9805
16 Pyrene	202	6.945	6.945	(0.883)	444176	5.00000	4.9847
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	435113	5.00000	4.7140
19 Chrysene	228	7.886	7.886	(1.002)	465452	5.00000	4.8819
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	409334	5.00000	4.8211
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	463057	5.00000	4.9506
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	394642	5.00000	4.8847
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	352250	5.00000	5.1308(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	352888	5.00000	4.8224(M)
26 Benzo(g,h,i)perylene	276	10.751	10.751	(1.180)	397056	5.00000	5.0373(M)

QC Flag Legend

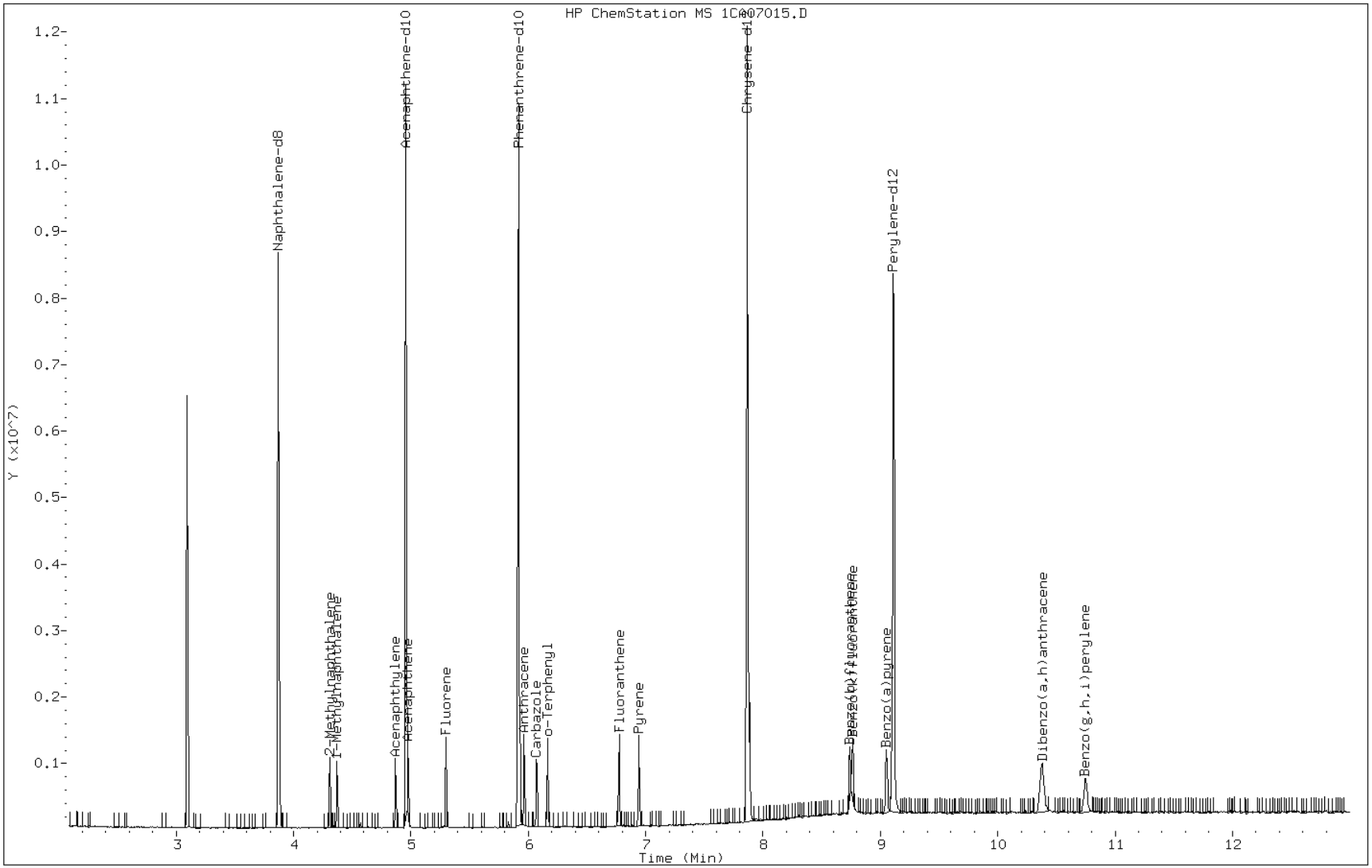
M - Compound response manually integrated.

Data File: 1CA07015.D

Date: 07-JAN-2013 15:59

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489896 Operator: SCC



Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

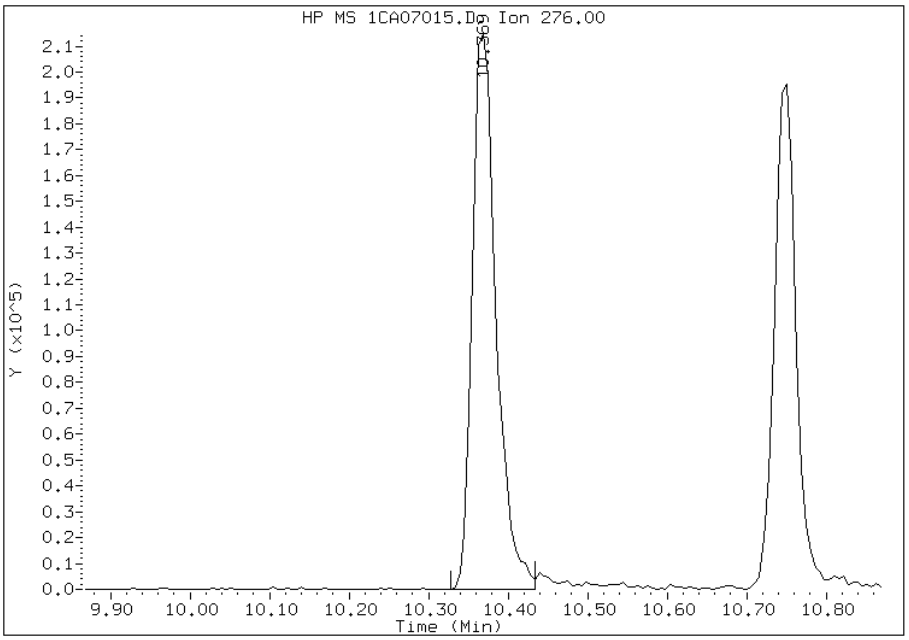
Processing Integration Results

RT: 10.37

Response: 445493

Amount: 6

Conc: 6



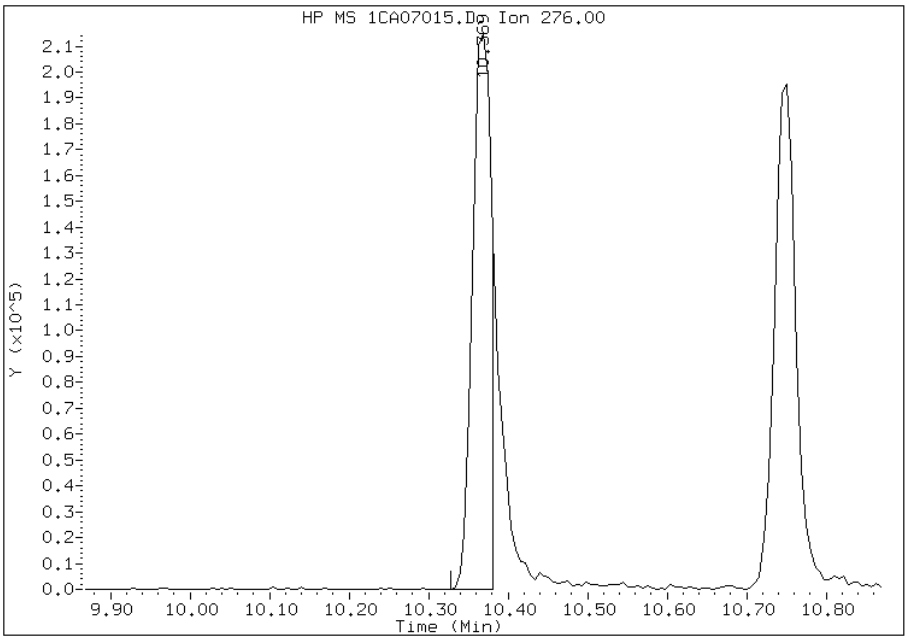
Manual Integration Results

RT: 10.37

Response: 352250

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

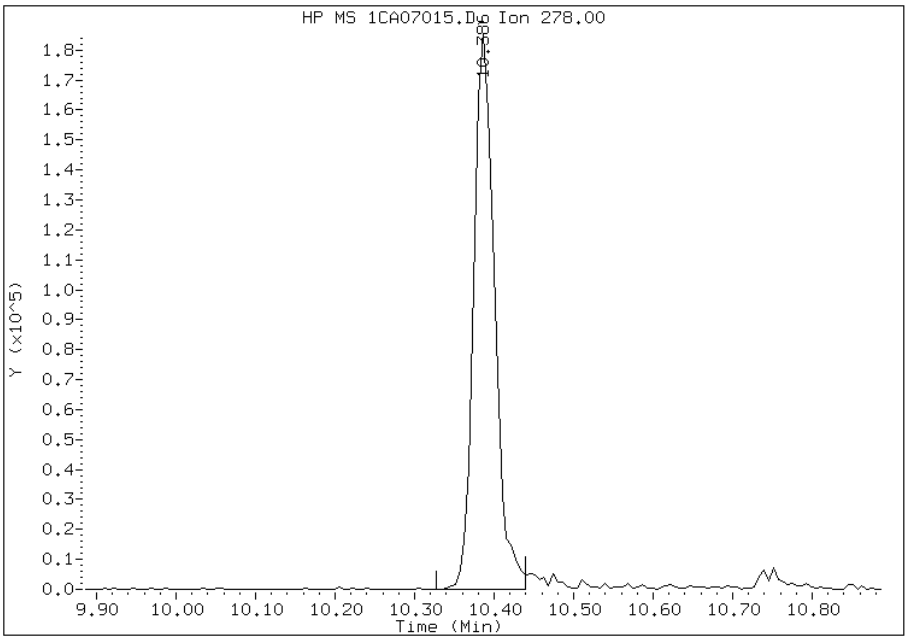
Processing Integration Results

RT: 10.39

Response: 335936

Amount: 5

Conc: 5



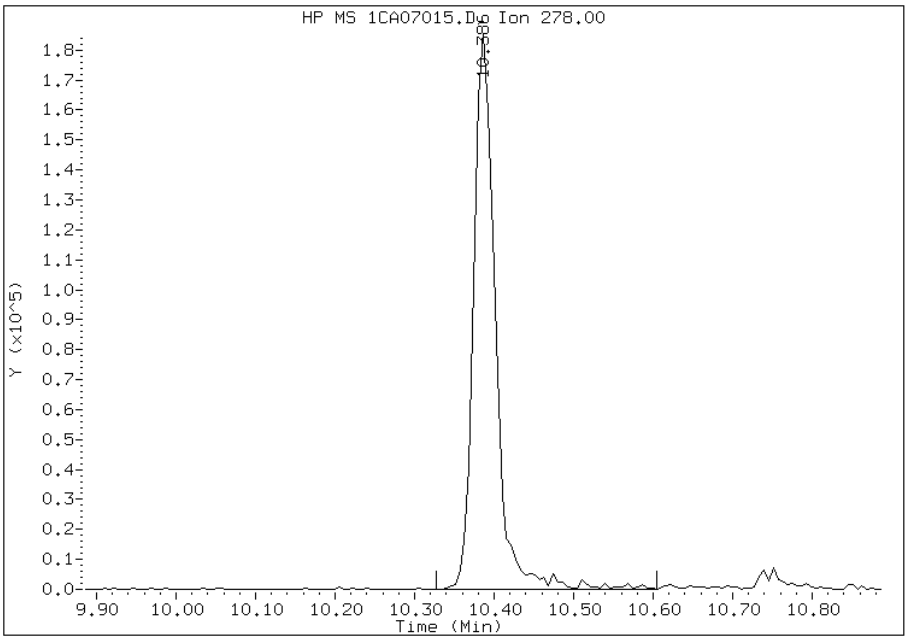
Manual Integration Results

RT: 10.39

Response: 352888

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

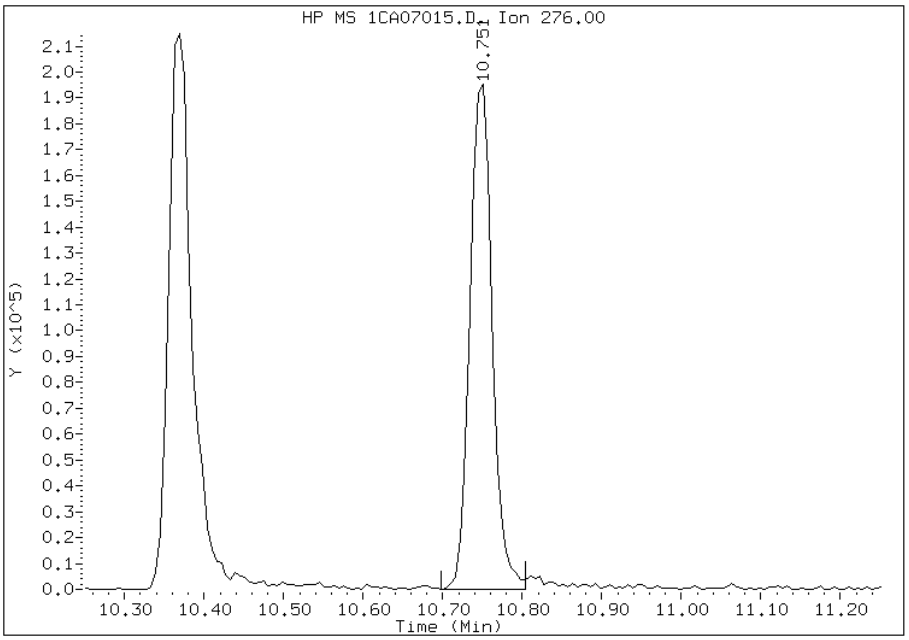
Processing Integration Results

RT: 10.75

Response: 377997

Amount: 5

Conc: 5



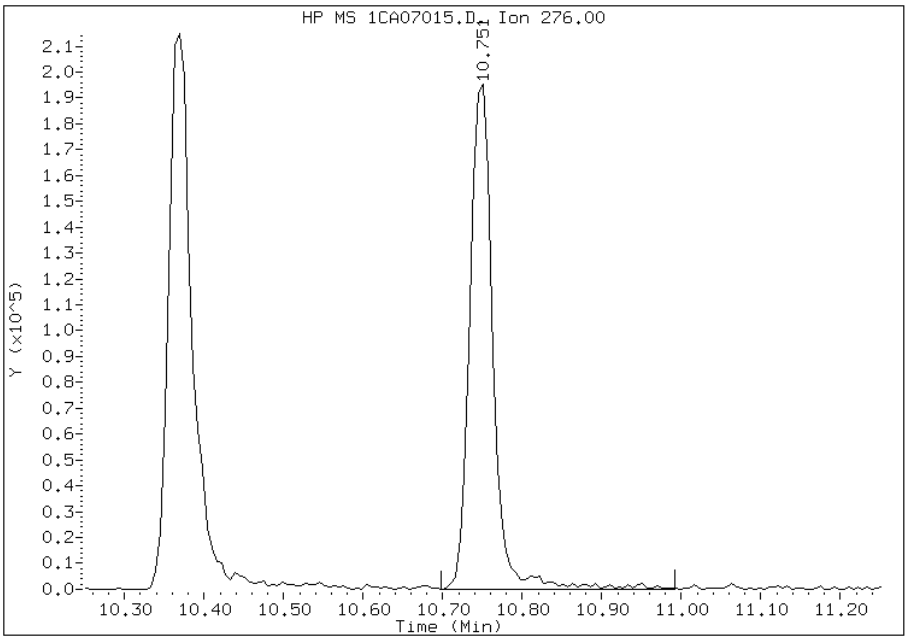
Manual Integration Results

RT: 10.75

Response: 397056

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07016.D
Lab Smp Id: IC-1489897
Inj Date : 07-JAN-2013 16:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:59 Cal File: 1CA07015.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2057907	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1506425	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2920094	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	450297	10.0000	10.5243
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3577892	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3583032	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	562439	10.0000	10.3139
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	360991	10.0000	10.1808
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	337071	10.0000	10.4523
5 Acenaphthylene	152	4.868	4.868	(0.982)	597168	10.0000	9.9641
7 Acenaphthene	154	4.974	4.974	(1.004)	380155	10.0000	10.1136
9 Fluorene	166	5.298	5.298	(1.069)	499898	10.0000	10.3604
11 Phenanthrene	178	5.927	5.927	(1.002)	852208	10.0000	9.7771
12 Anthracene	178	5.962	5.962	(1.008)	820090	10.0000	10.4428
13 Carbazole	167	6.068	6.068	(1.026)	704012	10.0000	10.3206
15 Fluoranthene	202	6.774	6.774	(1.145)	893123	10.0000	10.4863
16 Pyrene	202	6.945	6.945	(0.883)	1032505	10.0000	10.8396
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	948119	10.0000	9.6094
19 Chrysene	228	7.886	7.886	(1.002)	1039885	10.0000	10.2033
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	924867	10.0000	10.5284
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	1029821	10.0000	10.6413
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	891772	10.0000	10.6685
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	744949	10.0000	10.4876(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	785898	10.0000	10.3803(M)
26 Benzo(g,h,i)perylene	276	10.744	10.744	(1.179)	865965	10.0000	10.6183(M)

QC Flag Legend

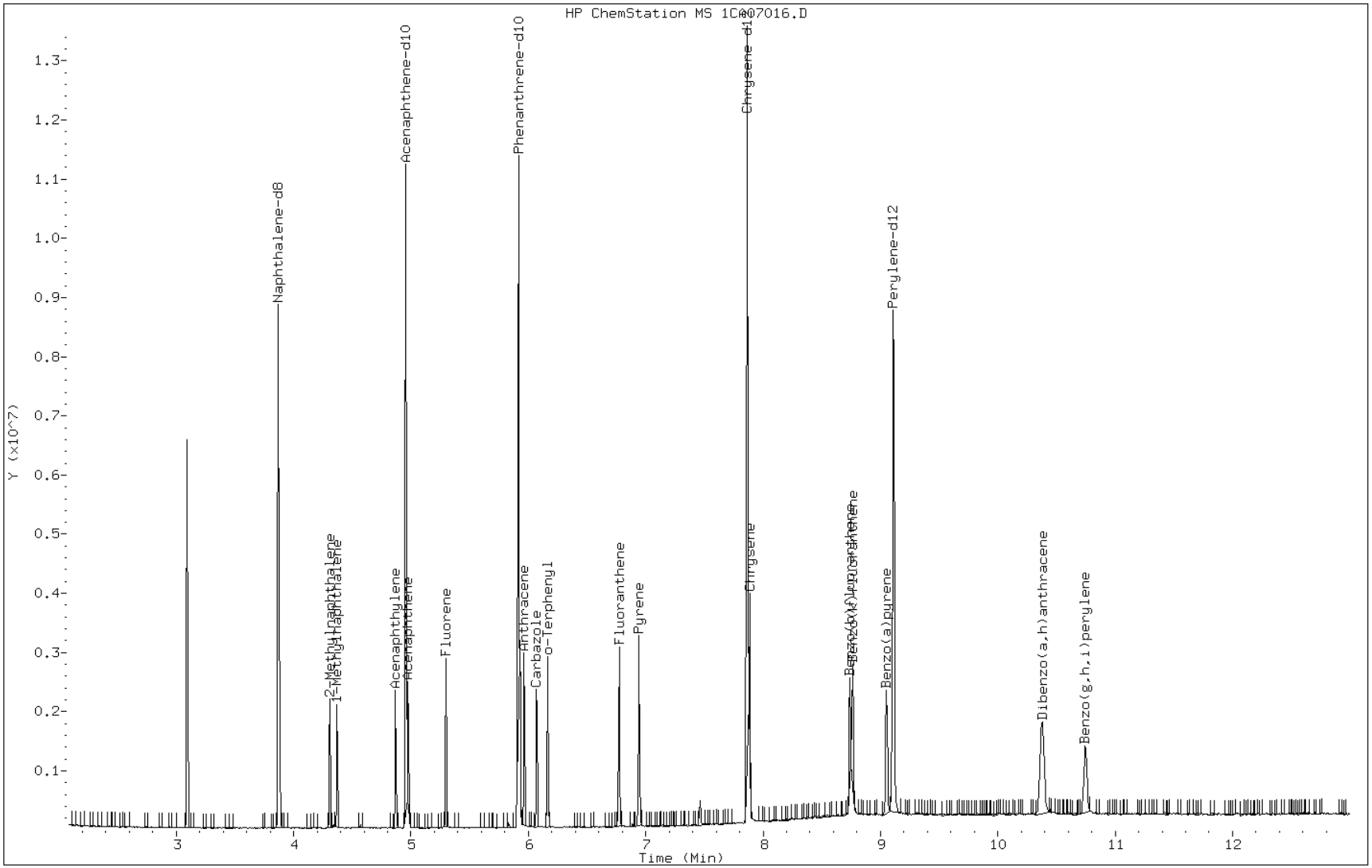
M - Compound response manually integrated.

Data File: 1CA07016.D

Date: 07-JAN-2013 16:18

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

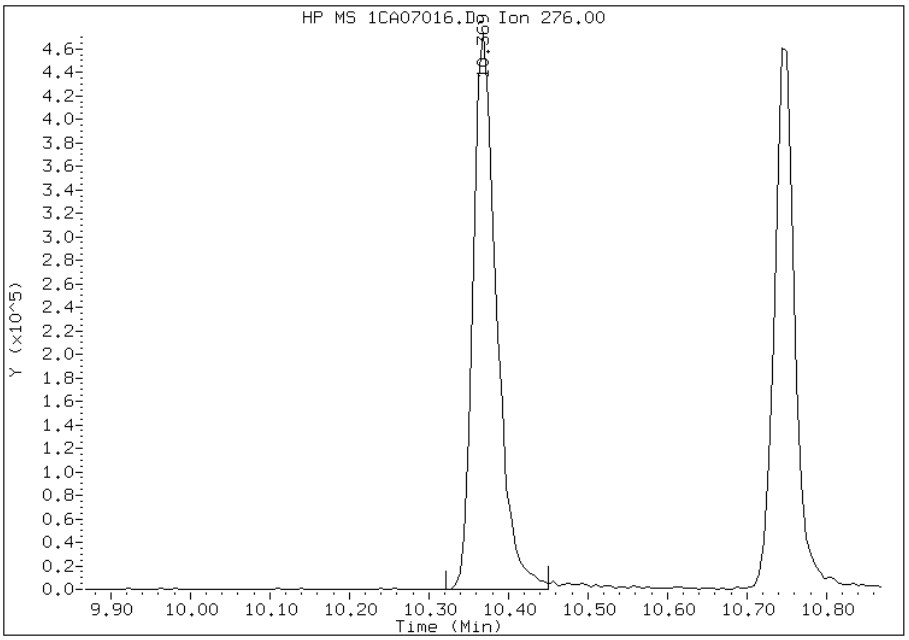
Processing Integration Results

RT: 10.37

Response: 970985

Amount: 12

Conc: 12



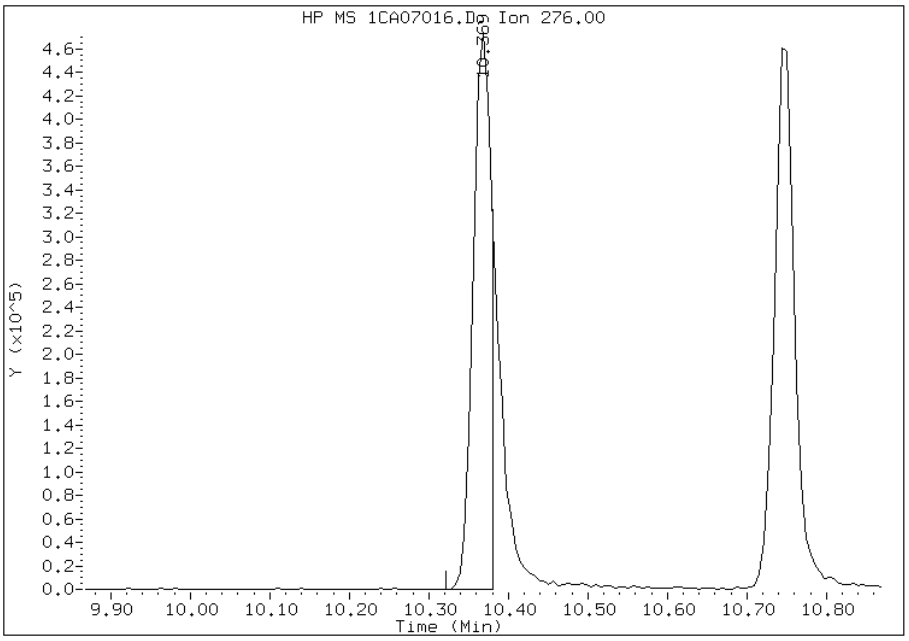
Manual Integration Results

RT: 10.37

Response: 744949

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

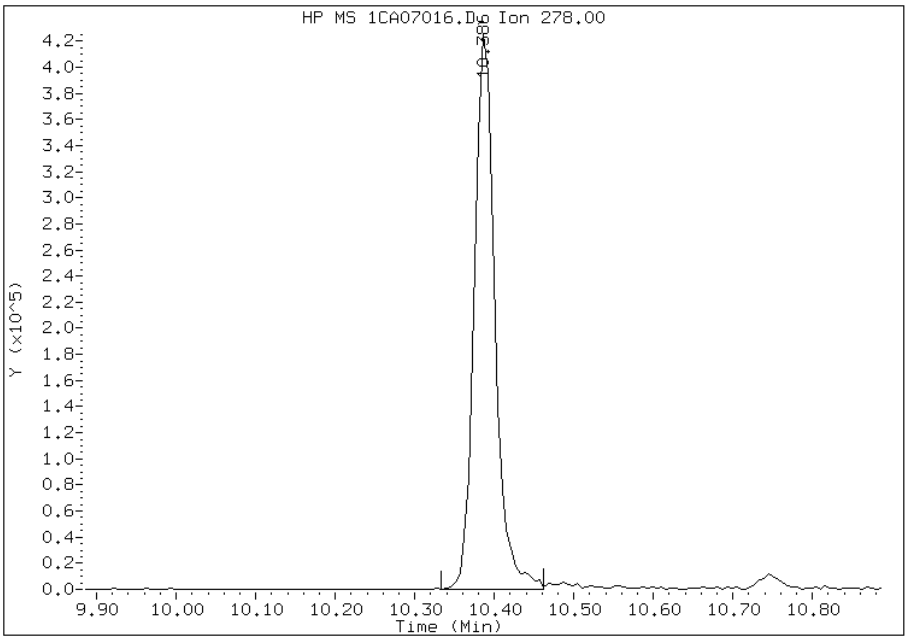
Processing Integration Results

RT: 10.39

Response: 764351

Amount: 10

Conc: 10



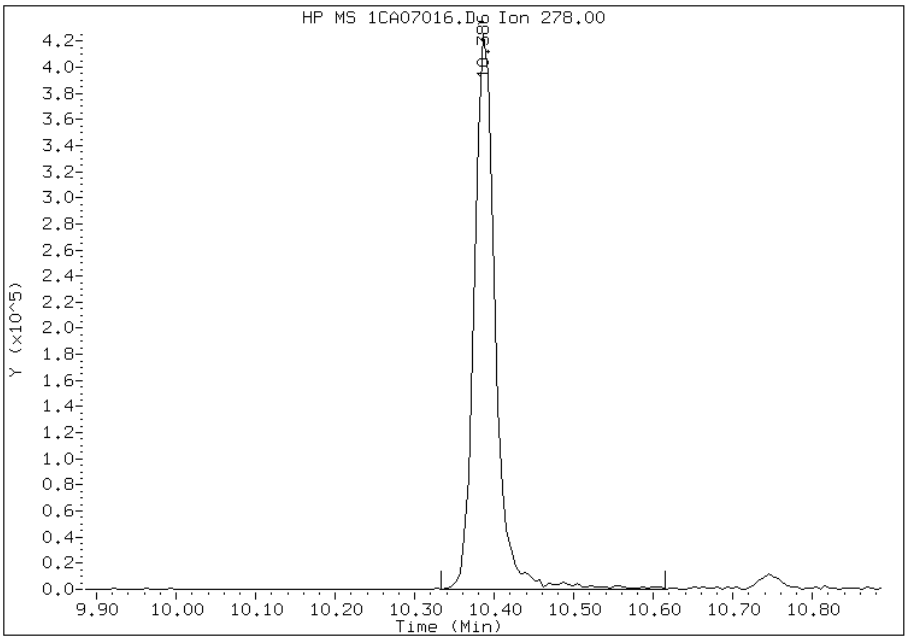
Manual Integration Results

RT: 10.39

Response: 785898

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

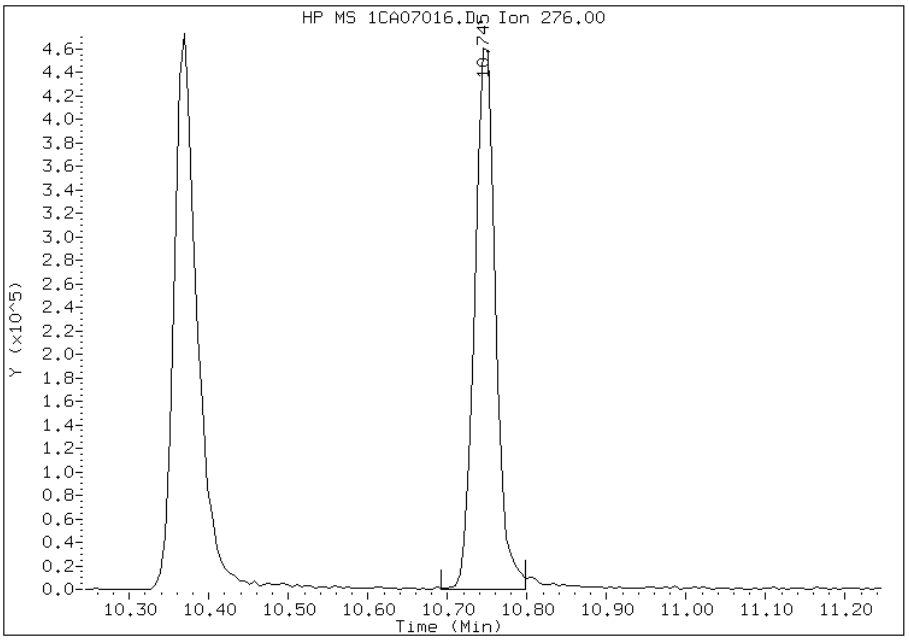
Processing Integration Results

RT: 10.74

Response: 835718

Amount: 10

Conc: 10



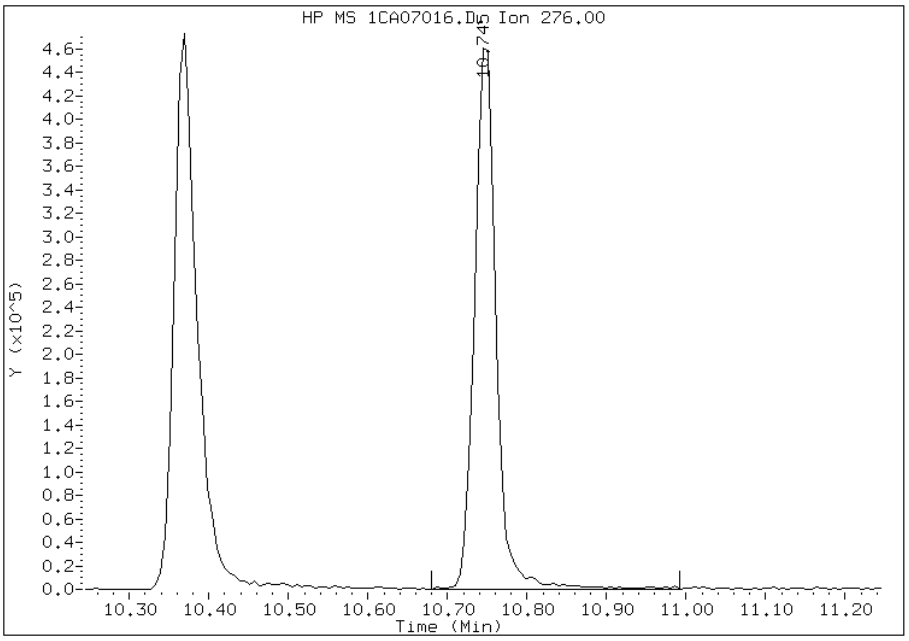
Manual Integration Results

RT: 10.74

Response: 865965

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07017.D
Lab Smp Id: ICIS-1489898
Inj Date : 07-JAN-2013 16:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:18 Cal File: 1CA07016.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2194838	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1653478	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	3141284	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	943151	20.0000	20.4912
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3787207	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3790527	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1132608	20.0000	19.4738
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	738557	20.0000	19.5296
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	714057	20.0000	20.7609
5 Acenaphthylene	152	4.868	4.868	(0.982)	1333542	20.0000	20.2720
7 Acenaphthene	154	4.974	4.974	(1.004)	777625	20.0000	18.8479
9 Fluorene	166	5.298	5.298	(1.069)	1052584	20.0000	19.8748
11 Phenanthrene	178	5.927	5.927	(1.002)	1725035	20.0000	18.3973
12 Anthracene	178	5.962	5.962	(1.008)	1722588	20.0000	20.3906
13 Carbazole	167	6.074	6.074	(1.027)	1516911	20.0000	20.6718
15 Fluoranthene	202	6.774	6.774	(1.145)	1958378	20.0000	21.3746
16 Pyrene	202	6.945	6.945	(0.883)	2128584	20.0000	21.1117
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	1936797	20.0000	18.5450
19 Chrysene	228	7.886	7.886	(1.002)	2079538	20.0000	19.2766
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	1891292	20.0000	20.3514
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	2181246	20.0000	21.3054
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	1856241	20.0000	20.9912
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	1706161	20.0000	22.7051(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	1627151	20.0000	20.3153(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	1745002	20.0000	20.2256(M)

QC Flag Legend

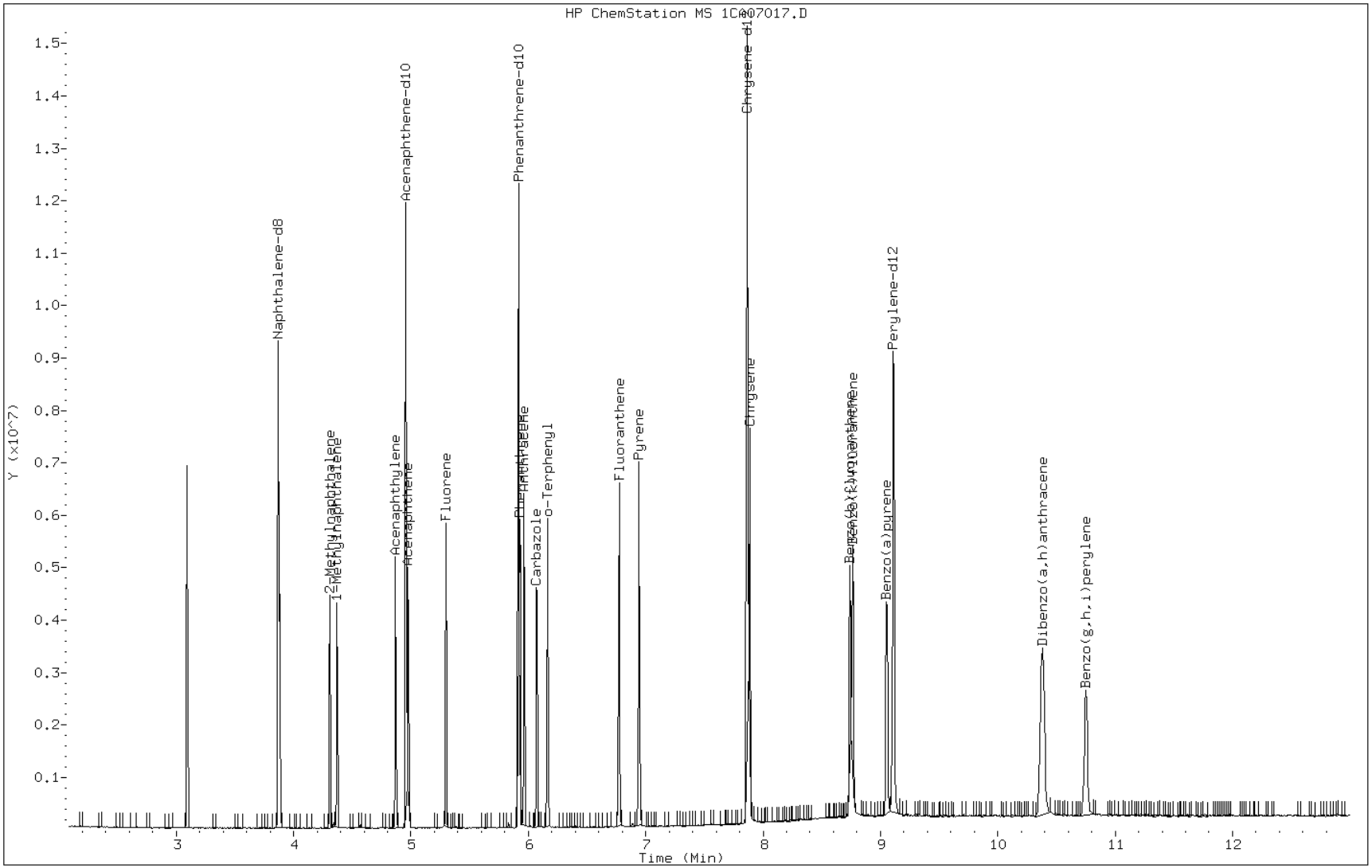
M - Compound response manually integrated.

Data File: 1CA07017.D

Date: 07-JAN-2013 16:36

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

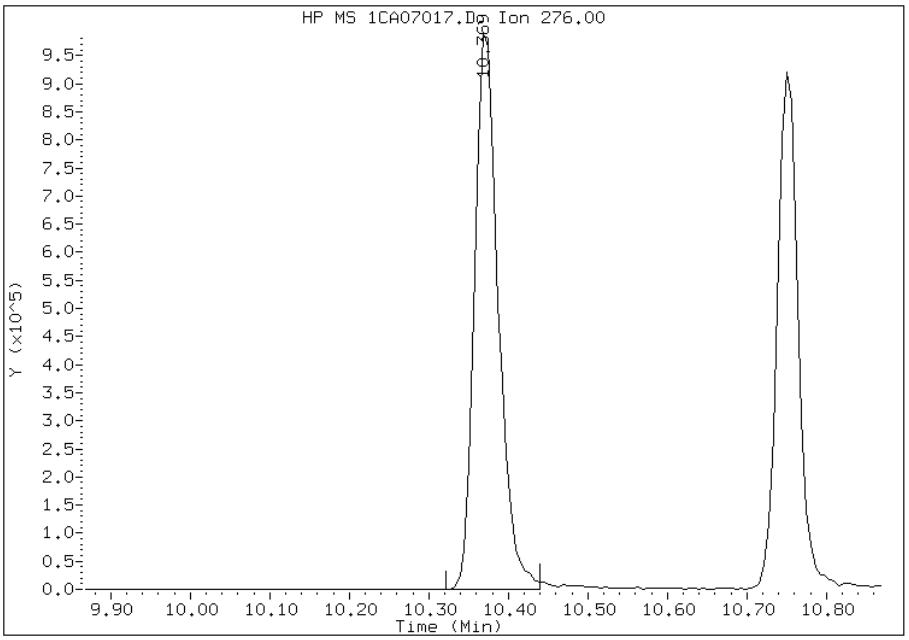
Processing Integration Results

RT: 10.37

Response: 2044337

Amount: 23

Conc: 23



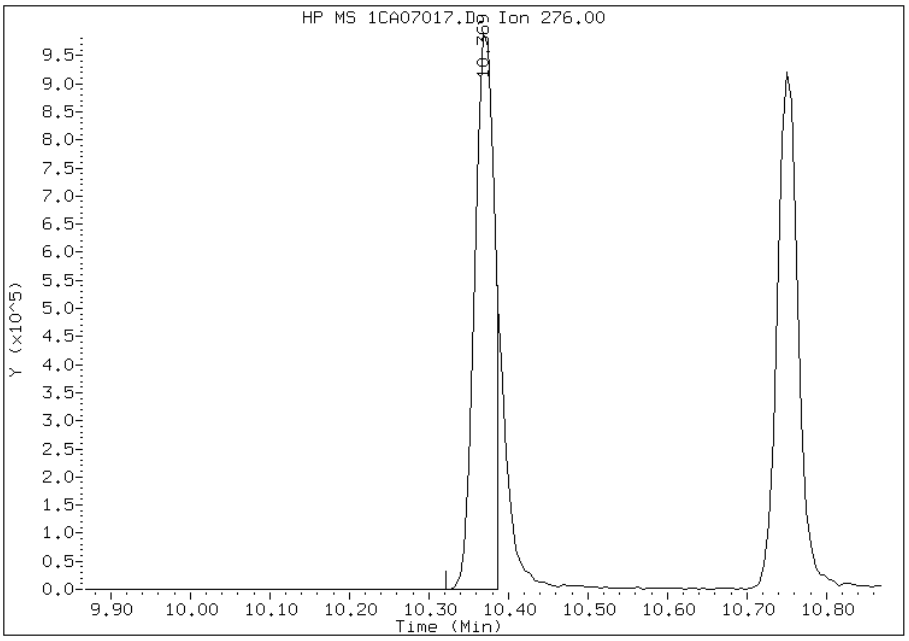
Manual Integration Results

RT: 10.37

Response: 1706161

Amount: 23

Conc: 23



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

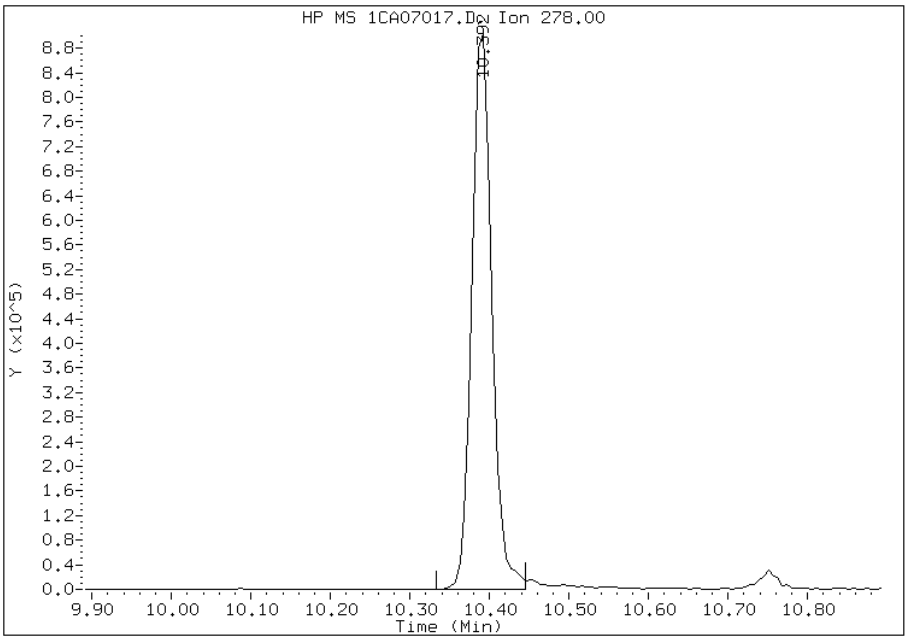
Processing Integration Results

RT: 10.39

Response: 1569221

Amount: 19

Conc: 19



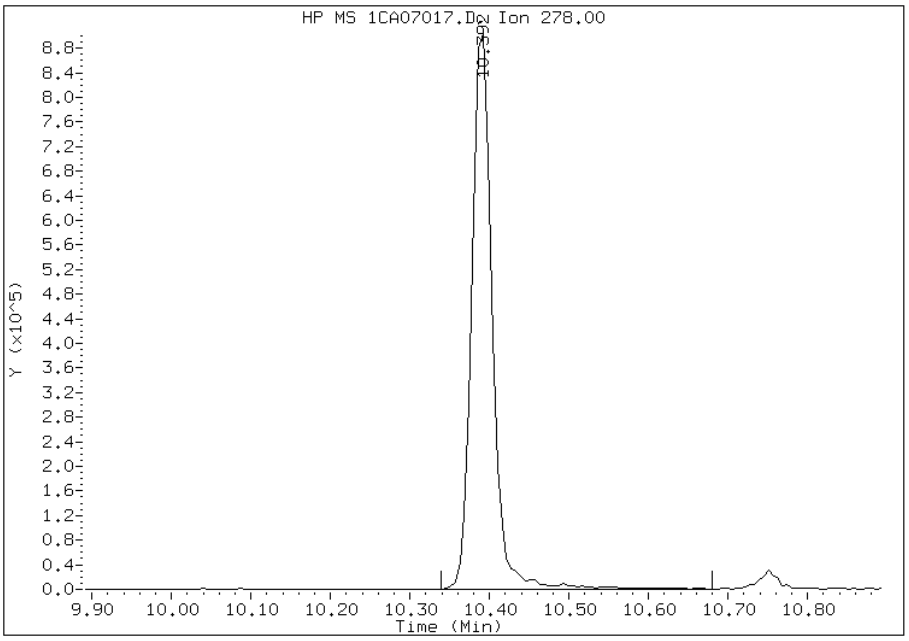
Manual Integration Results

RT: 10.39

Response: 1627151

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

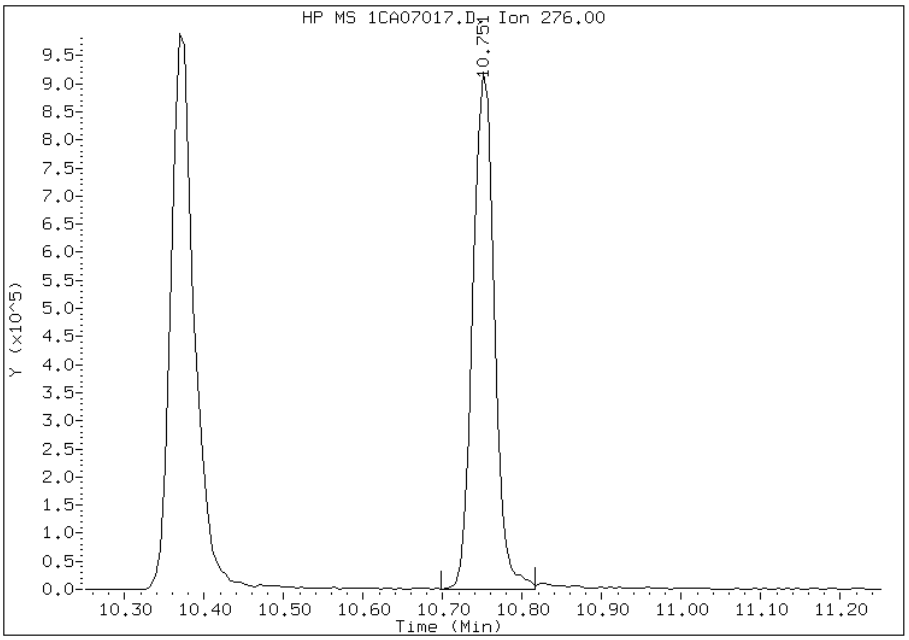
Processing Integration Results

RT: 10.75

Response: 1711397

Amount: 19

Conc: 19



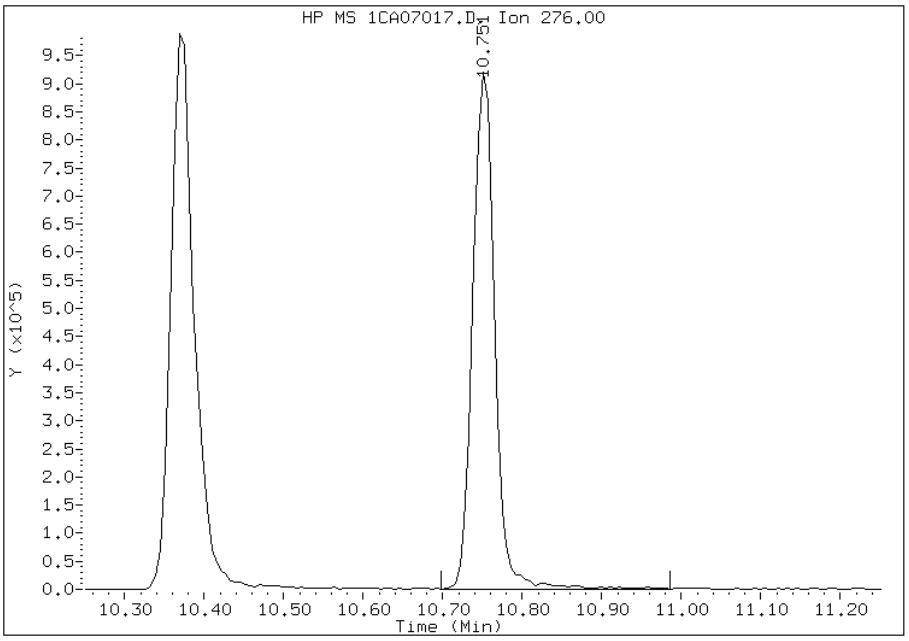
Manual Integration Results

RT: 10.75

Response: 1745002

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07018.D
Lab Smp Id: IC-1489899
Inj Date : 07-JAN-2013 16:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:36 Cal File: 1CA07017.D
Als bottle: 18 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2206384	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1682844	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	3224181	40.0000	
$ 14 o-Terphenyl	230	6.169	6.169	(1.043)	1447125	30.0000	30.6324
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3659777	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3629385	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1744899	30.0000	29.8445
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1125305	30.0000	29.6006
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1099203	30.0000	31.7916
5 Acenaphthylene	152	4.869	4.869	(0.982)	2078096	30.0000	31.0392
7 Acenaphthene	154	4.974	4.974	(1.004)	1212087	30.0000	28.8657
9 Fluorene	166	5.298	5.298	(1.069)	1642686	30.0000	30.4758
11 Phenanthrene	178	5.927	5.927	(1.002)	2725408	30.0000	28.3189
12 Anthracene	178	5.963	5.963	(1.008)	2681981	30.0000	30.9308
13 Carbazole	167	6.074	6.074	(1.027)	2392859	30.0000	31.7704
15 Fluoranthene	202	6.774	6.774	(1.145)	2977438	30.0000	31.6615
16 Pyrene	202	6.945	6.945	(0.883)	3254878	30.0000	33.4065
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	2964525	30.0000	29.3740
19 Chrysene	228	7.886	7.886	(1.002)	3031738	30.0000	29.0818
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	2773683	30.0000	31.1717
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	3267104	30.0000	33.3285
22 Benzo(a)pyrene	252	9.057	9.057	(0.994)	2808161	30.0000	33.1659
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.139)	2564602	30.0000	35.6443(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	2451088	30.0000	31.9610
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	2713188	30.0000	32.8438

QC Flag Legend

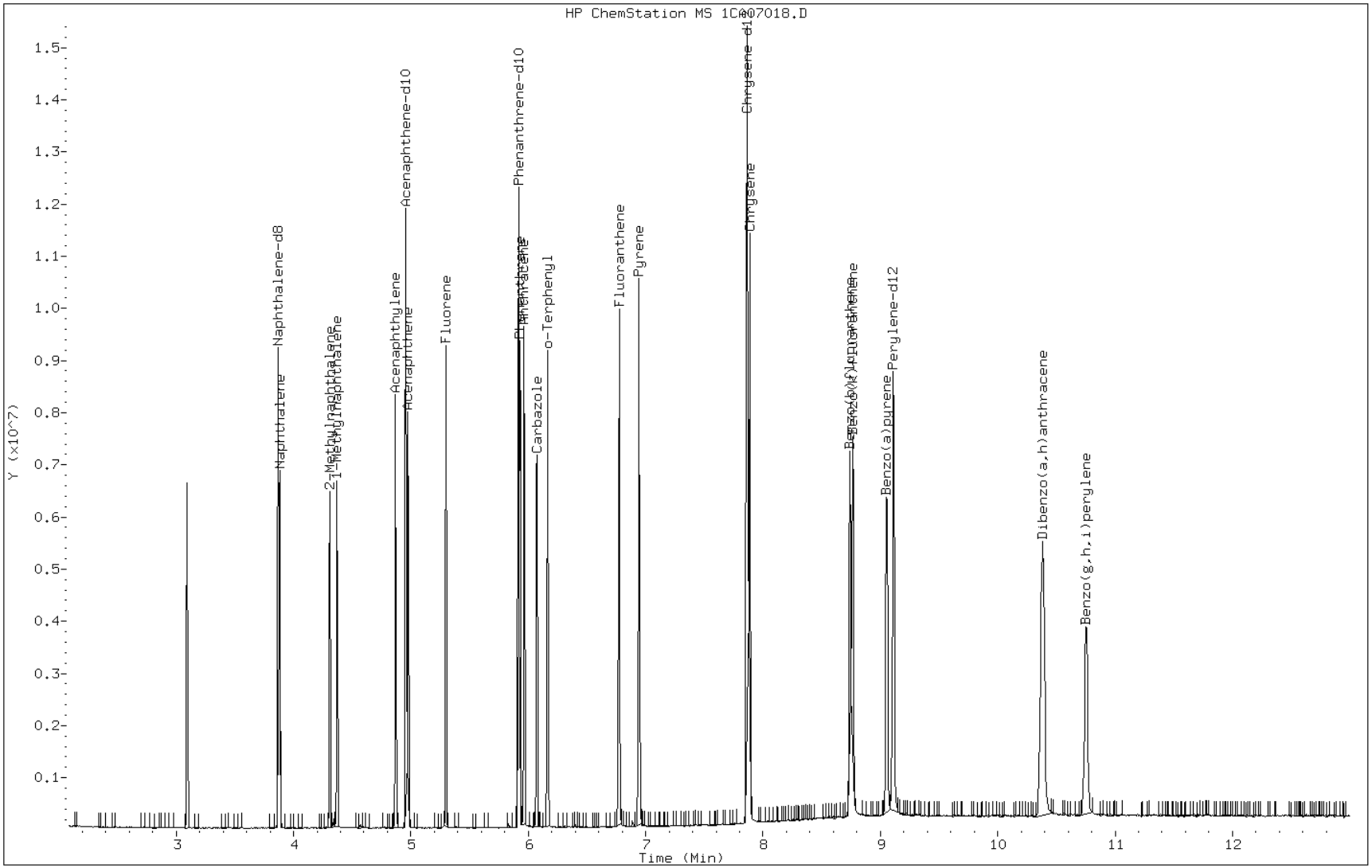
M - Compound response manually integrated.

Data File: 1CA07018.D

Date: 07-JAN-2013 16:54

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489899 Operator: SCC



Manual Integration Report

Data File: 1CA07018.D
Inj. Date and Time: 07-JAN-2013 16:54
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

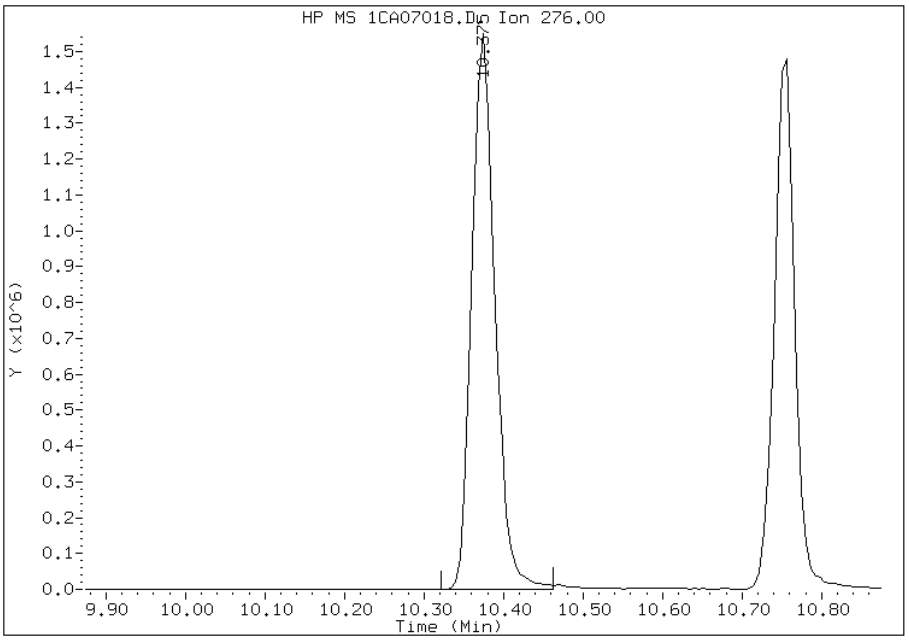
Processing Integration Results

RT: 10.37

Response: 3123860

Amount: 35

Conc: 35



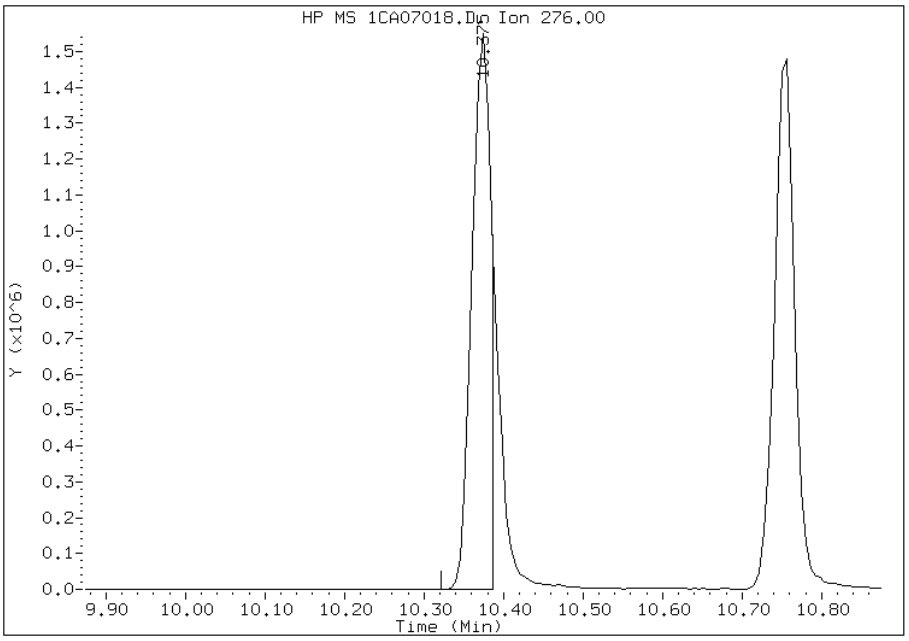
Manual Integration Results

RT: 10.37

Response: 2564602

Amount: 36

Conc: 36



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07019.D
Lab Smp Id: IC-1489900
Inj Date : 07-JAN-2013 17:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:41 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:54 Cal File: 1CA07018.D
Als bottle: 19 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	1965517	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1517262	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2863889	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	2145891	50.0000	51.1382(A)
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3447806	40.0000	
* 23 Perylene-d12	264	9.115	9.115	(1.000)	3425001	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	2683662	50.0000	51.5260(A)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1715115	50.0000	50.6441(A)
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1642265	50.0000	53.3190(A)
5 Acenaphthylene	152	4.869	4.869	(0.982)	3143102	50.0000	52.0699(A)
7 Acenaphthene	154	4.974	4.974	(1.004)	1826987	50.0000	48.2578
9 Fluorene	166	5.298	5.298	(1.069)	2448772	50.0000	50.3886(A)
11 Phenanthrene	178	5.933	5.933	(1.003)	3980821	50.0000	46.5673
12 Anthracene	178	5.963	5.963	(1.008)	4020655	50.0000	52.2031(A)
13 Carbazole	167	6.074	6.074	(1.027)	3531798	50.0000	52.7916(A)
15 Fluoranthene	202	6.774	6.774	(1.145)	4473693	50.0000	53.5573(A)
16 Pyrene	202	6.945	6.945	(0.883)	4789001	50.0000	52.1740(A)
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	4538204	50.0000	47.7313
19 Chrysene	228	7.892	7.892	(1.003)	4663655	50.0000	47.4863
20 Benzo(b)fluoranthene	252	8.745	8.745	(0.959)	4834833	50.0000	57.5782(A)
21 Benzo(k)fluoranthene	252	8.768	8.768	(0.962)	4750961	50.0000	51.3578(A)
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	4467973	50.0000	55.9181(A)
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.138)	3772962	50.0000	55.5680(AM)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	3909634	50.0000	54.0220(A)
26 Benzo(g,h,i)perylene	276	10.762	10.762	(1.181)	4151782	50.0000	53.2574(A)

QC Flag Legend

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

Data File: 1CA07019.D

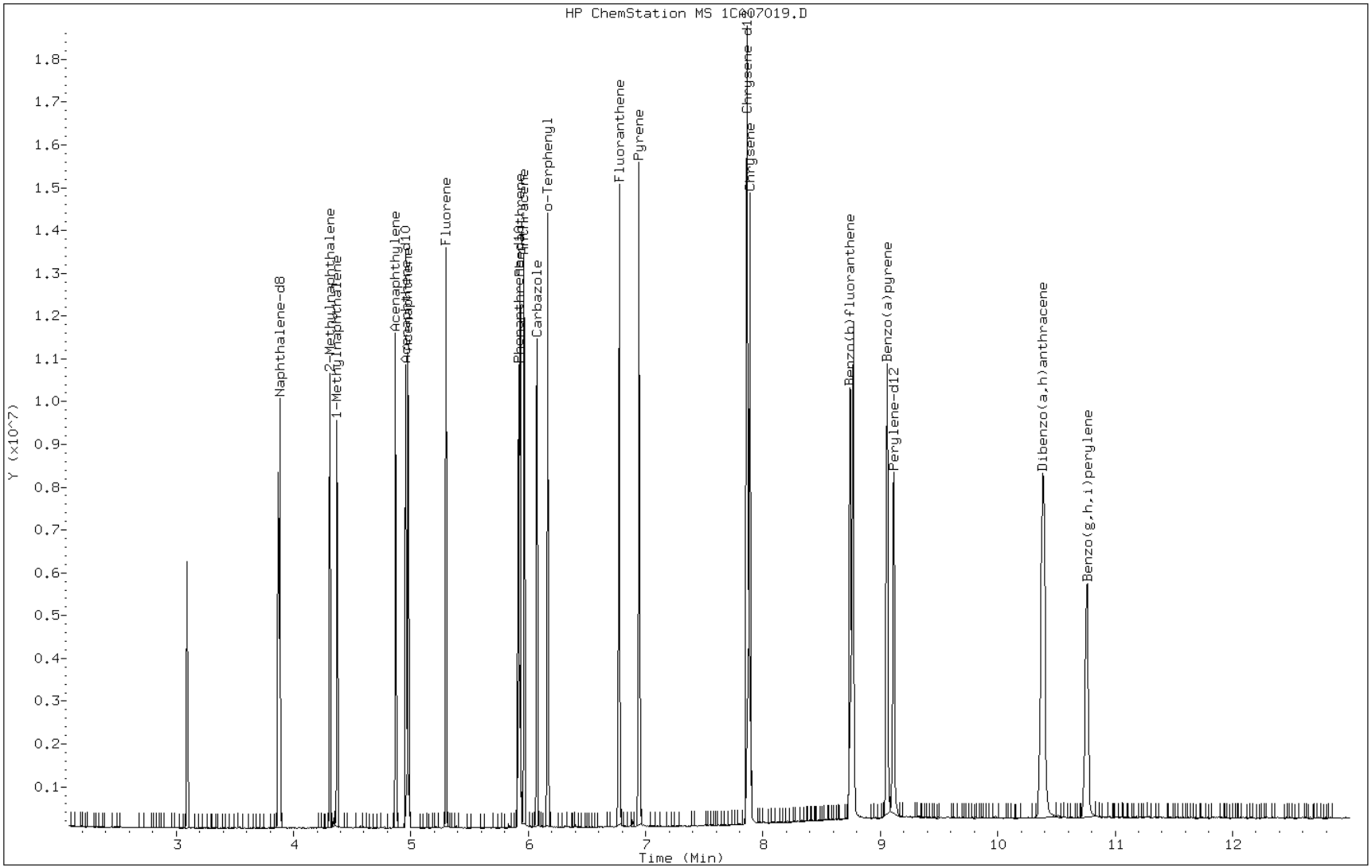
Date: 07-JAN-2013 17:13

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1489900

Operator: SCC



Manual Integration Report

Data File: 1CA07019.D
Inj. Date and Time: 07-JAN-2013 17:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

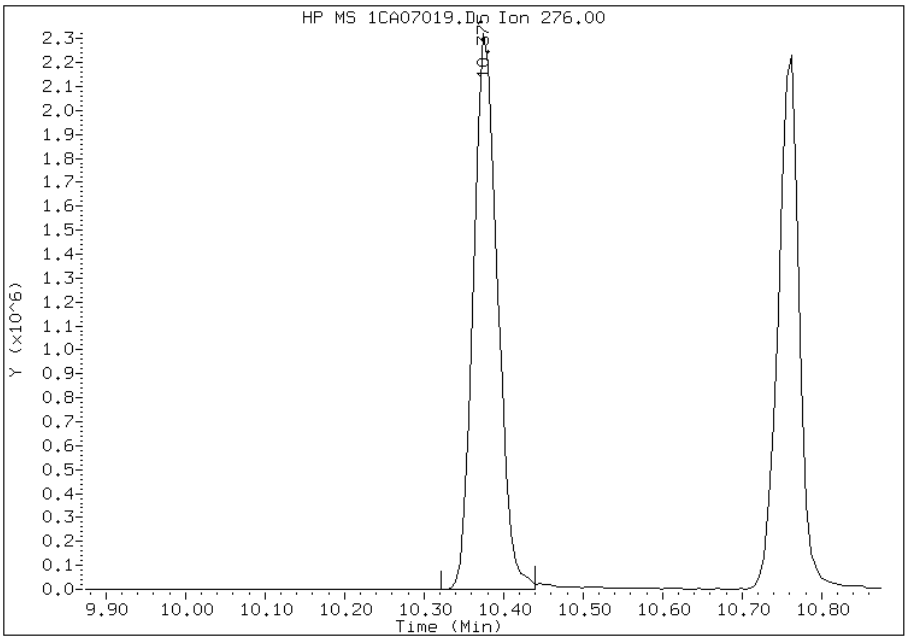
Processing Integration Results

RT: 10.37

Response: 4872897

Amount: 57

Conc: 57



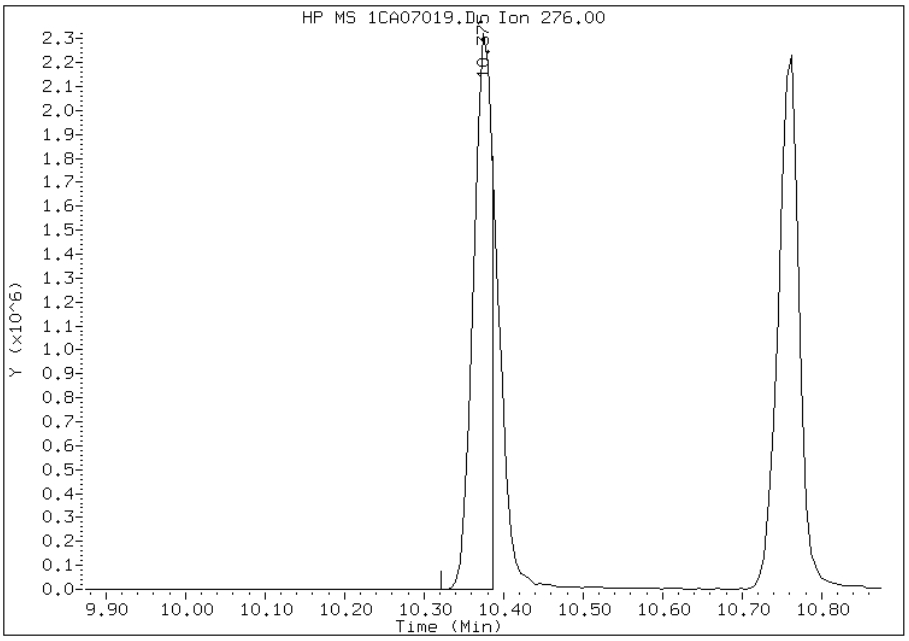
Manual Integration Results

RT: 10.37

Response: 3772962

Amount: 56

Conc: 56



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:40
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Lab Sample ID: ICV 660-133227/10 Calibration Date: 01/07/2013 17:31

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CA07020.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.007	0.0000	19000	20000	-5.0	35.0
2-Methylnaphthalene	Ave	0.6892	0.6589	0.0000	19100	20000	-4.4	35.0
1-Methylnaphthalene	Ave	0.6268	0.6593	0.0000	21000	20000	5.2	35.0
Acenaphthylene	Ave	1.591	1.636	0.0000	20600	20000	2.8	35.0
Acenaphthene	Ave	0.998	0.995	0.0000	19900	20000	-0.3	35.0
Fluorene	Ave	1.281	1.256	0.0000	19600	20000	-1.9	35.0
Phenanthrene	Ave	1.194	1.049	0.0000	17600	20000	-12.2	35.0
Anthracene	Ave	1.076	1.057	0.0000	19700	20000	-1.7	35.0
Carbazole	Ave	0.9344	0.9714	0.0000	20800	20000	4.0	35.0
Fluoranthene	Ave	1.167	1.235	0.0000	21200	20000	5.9	35.0
Pyrene	Ave	1.065	1.062	0.0000	19900	20000	-0.3	35.0
Benzo[a]anthracene	Ave	1.103	1.074	0.0000	19500	20000	-2.6	35.0
Chrysene	Ave	1.139	1.025	0.0000	18000	20000	-10.0	35.0
Benzo[b]fluoranthene	Ave	0.9807	0.9511	0.0000	19400	20000	-3.0	35.0
Benzo[k]fluoranthene	Ave	1.080	1.106	0.0000	20500	20000	2.4	35.0
Benzo[a]pyrene	Ave	0.9332	0.8638	0.0000	18500	20000	-7.4	35.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.8346	0.0000	18600	20000	-6.9	35.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8921	0.0000	21100	20000	5.5	35.0
Benzo[g,h,i]perylene	Ave	0.9104	0.8897	0.0000	19500	20000	-2.3	35.0
o-Terphenyl	Ave	0.5861	0.5611	0.0000	19100	20000	-4.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07020.D
Lab Smp Id: ICV-1448440
Inj Date : 07-JAN-2013 17:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:43 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 20 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2417094	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1838803	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.916	(1.000)	3573060	40.0000	
$ 14 o-Terphenyl	230	6.168	6.169	(1.043)	1002344	19.1457	19.1456
* 18 Chrysene-d12	240	7.868	7.869	(1.000)	4267463	40.0000	
* 23 Perylene-d12	264	9.115	9.116	(1.000)	4342564	40.0000	
2 Naphthalene	128	3.880	3.881	(1.003)	1216880	18.9990	18.9989
3 2-Methylnaphthalene	142	4.310	4.309	(1.114)	796260	19.1194	19.1193
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	796834	21.0373	21.0373
5 Acenaphthylene	152	4.868	4.869	(0.982)	1503892	20.5575	20.5575
7 Acenaphthene	154	4.980	4.975	(1.005)	914978	19.9420	19.9419
9 Fluorene	166	5.298	5.298	(1.069)	1155136	19.6129	19.6129
11 Phenanthrene	178	5.933	5.934	(1.003)	1873312	17.5645	17.5644
12 Anthracene	178	5.963	5.963	(1.008)	1888199	19.6500	19.6500
13 Carbazole	167	6.074	6.075	(1.027)	1735453	20.7921	20.7920
15 Fluoranthene	202	6.774	6.775	(1.145)	2206550	21.1730	21.1730
16 Pyrene	202	6.945	6.945	(0.883)	2266055	19.9459	19.9458

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.862	7.863	(0.999)	2292513	19.4807	19.4807
19 Chrysene	228	7.886	7.892	(1.002)	2187685	17.9970	17.9969
20 Benzo(b)fluoranthene	252	8.739	8.745	(0.959)	2065017	19.3961	19.3961
21 Benzo(k)fluoranthene	252	8.762	8.769	(0.961)	2402437	20.4829	20.4829
22 Benzo(a)pyrene	252	9.051	9.057	(0.993)	1875598	18.5138	18.5138
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.375	(1.137)	1812061	18.6227	18.6226(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	1936939	21.1089	21.1088
26 Benzo(g,h,i)perylene	276	10.750	10.763	(1.179)	1931721	19.5436	19.5436

QC Flag Legend

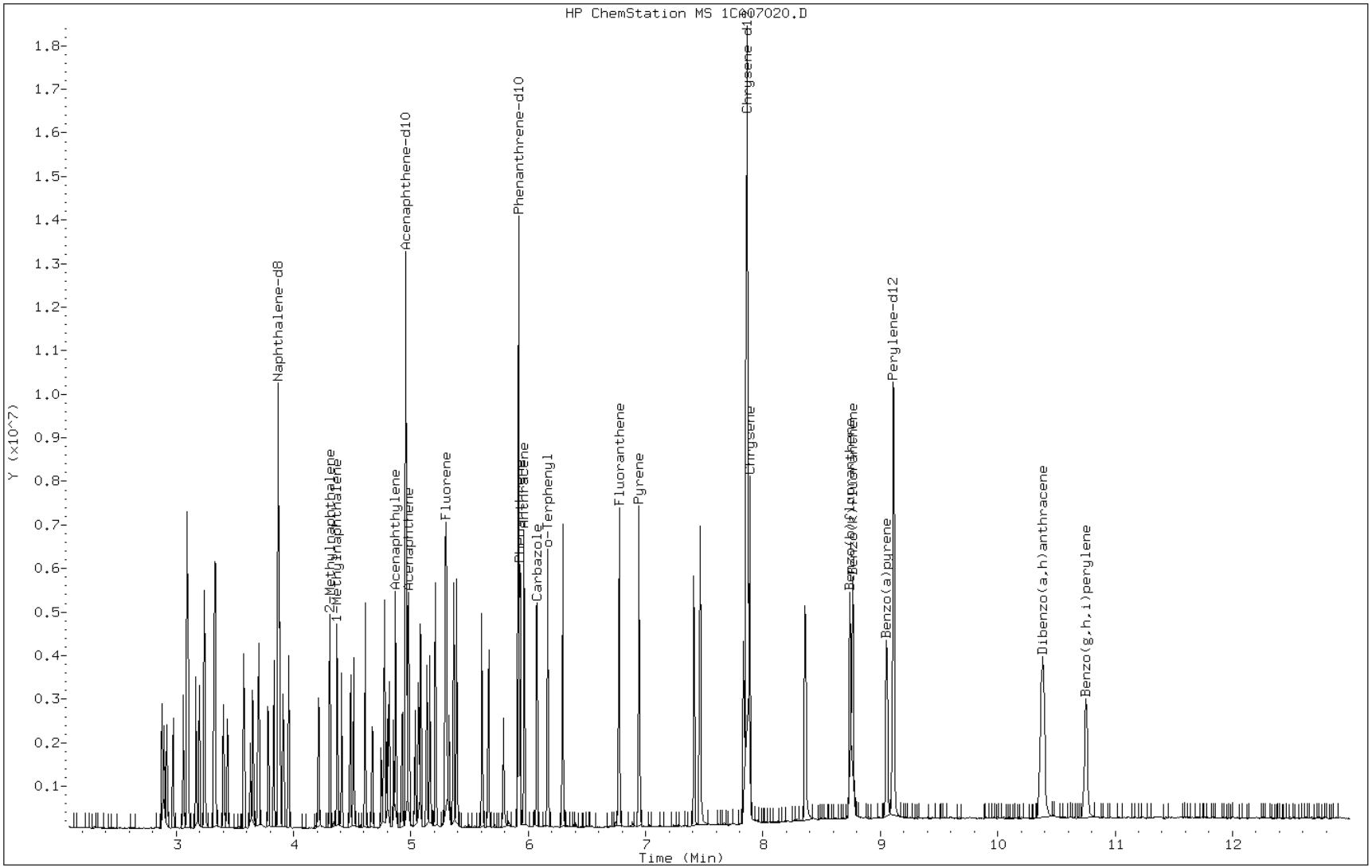
M - Compound response manually integrated.

Data File: 1CA07020.D

Date: 07-JAN-2013 17:31

Client ID: Instrument: BSMC5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1CA07020.D
Inj. Date and Time: 07-JAN-2013 17:31
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

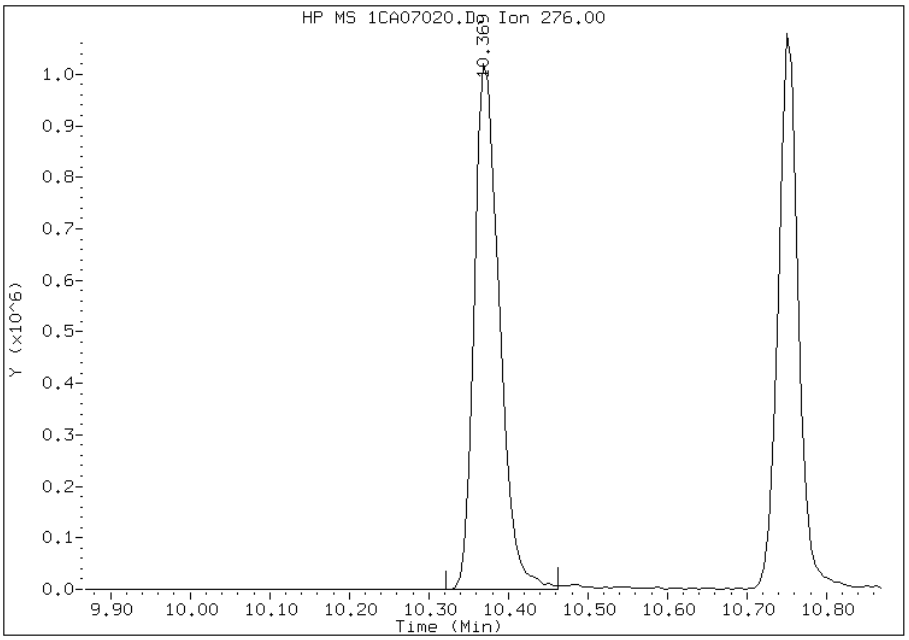
Processing Integration Results

RT: 10.37

Response: 2215563

Amount: 23

Conc: 23



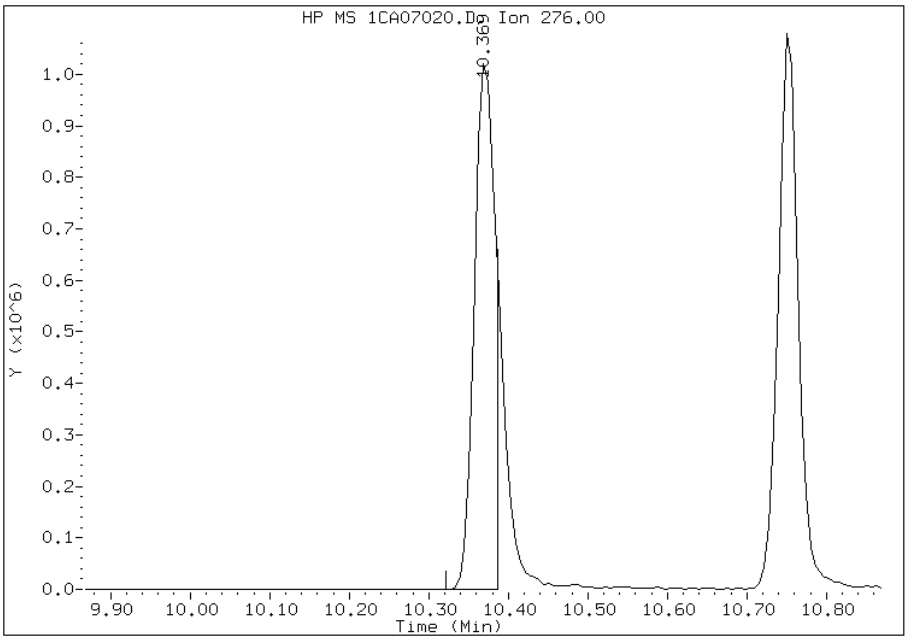
Manual Integration Results

RT: 10.37

Response: 1812061

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:44
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Lab Sample ID: CCVIS 660-134673/3 Calibration Date: 02/19/2013 11:06

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: 1CB19003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.054	0.0000	19900	20000	-0.6	20.0
2-Methylnaphthalene	Ave	0.6892	0.6805	0.0000	19700	20000	-1.3	20.0
1-Methylnaphthalene	Ave	0.6268	0.6416	0.0000	20500	20000	2.4	20.0
Acenaphthylene	Ave	1.591	1.592	0.0000	20000	20000	0.0	20.0
Acenaphthene	Ave	0.998	0.9339	0.0000	18700	20000	-6.4	20.0
Fluorene	Ave	1.281	1.255	0.0000	19600	20000	-2.0	20.0
Phenanthrene	Ave	1.194	1.058	0.0000	17700	20000	-11.4	20.0
Anthracene	Ave	1.076	1.100	0.0000	20400	20000	2.2	20.0
Carbazole	Ave	0.9344	0.9447	0.0000	20200	20000	1.1	20.0
Fluoranthene	Ave	1.167	1.167	0.0000	20000	20000	0.0	20.0
Pyrene	Ave	1.065	1.182	0.0000	22200	20000	11.0	20.0
Benzo[a]anthracene	Ave	1.103	1.075	0.0000	19500	20000	-2.5	20.0
Chrysene	Ave	1.139	1.066	0.0000	18700	20000	-6.5	20.0
Benzo[b]fluoranthene	Ave	0.9807	1.059	0.0000	21600	20000	8.0	20.0
Benzo[k]fluoranthene	Ave	1.080	1.141	0.0000	21100	20000	5.6	20.0
Benzo[a]pyrene	Ave	0.9332	1.007	0.0000	21600	20000	7.9	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.8920	0.0000	19900	20000	-0.5	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8333	0.0000	19700	20000	-1.4	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.8815	0.0000	19400	20000	-3.2	20.0
o-Terphenyl	Ave	0.5861	0.5817	0.0000	19800	20000	-0.8	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 19-FEB-2013 11:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 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	3.816	3.816	(1.000)	2572245	40.0000	(H)
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1964004	40.0000	(H)
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	3670146	40.0000	(H)
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	1067438	20.0000	19.8497(H)
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	3917198	40.0000	(H)
* 23 Perylene-d12	264	9.027	9.027	(1.000)	3584382	40.0000	(H)
2 Naphthalene	128	3.827	3.827	(1.003)	1355654	20.0000	19.8889(H)
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	875207	20.0000	19.7474(H)
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	825177	20.0000	20.4715(H)
5 Acenaphthylene	152	4.816	4.816	(0.982)	1563416	20.0000	20.0088(H)
7 Acenaphthene	154	4.921	4.921	(1.004)	917085	20.0000	18.7137(H)
9 Fluorene	166	5.245	5.245	(1.070)	1232357	20.0000	19.5901(H)
11 Phenanthrene	178	5.874	5.874	(1.003)	1940789	20.0000	17.7157(H)
12 Anthracene	178	5.910	5.910	(1.009)	2017692	20.0000	20.4421(H)
13 Carbazole	167	6.015	6.015	(1.027)	1733670	20.0000	20.2212(H)
15 Fluoranthene	202	6.715	6.715	(1.147)	2142039	20.0000	20.0102(H)
16 Pyrene	202	6.886	6.886	(0.882)	2315641	20.0000	22.2048(H)
17 Benzo(a)anthracene	228	7.798	7.798	(0.998)	2106153	20.0000	19.4974(H)
19 Chrysene	228	7.827	7.827	(1.002)	2087326	20.0000	18.7068(H)
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	1897768	20.0000	21.5956(H)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	2044589	20.0000	21.1192(H)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	1804421	20.0000	21.5787(H)
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.251	(1.136)	1598683	20.0000	19.9050(MH)
25 Dibenzo(a,h)anthracene	278	10.268	10.268	(1.137)	1493495	20.0000	19.7189(H)
26 Benzo(g,h,i)perylene	276	10.621	10.621	(1.177)	1579754	20.0000	19.3634(H)

QC Flag Legend

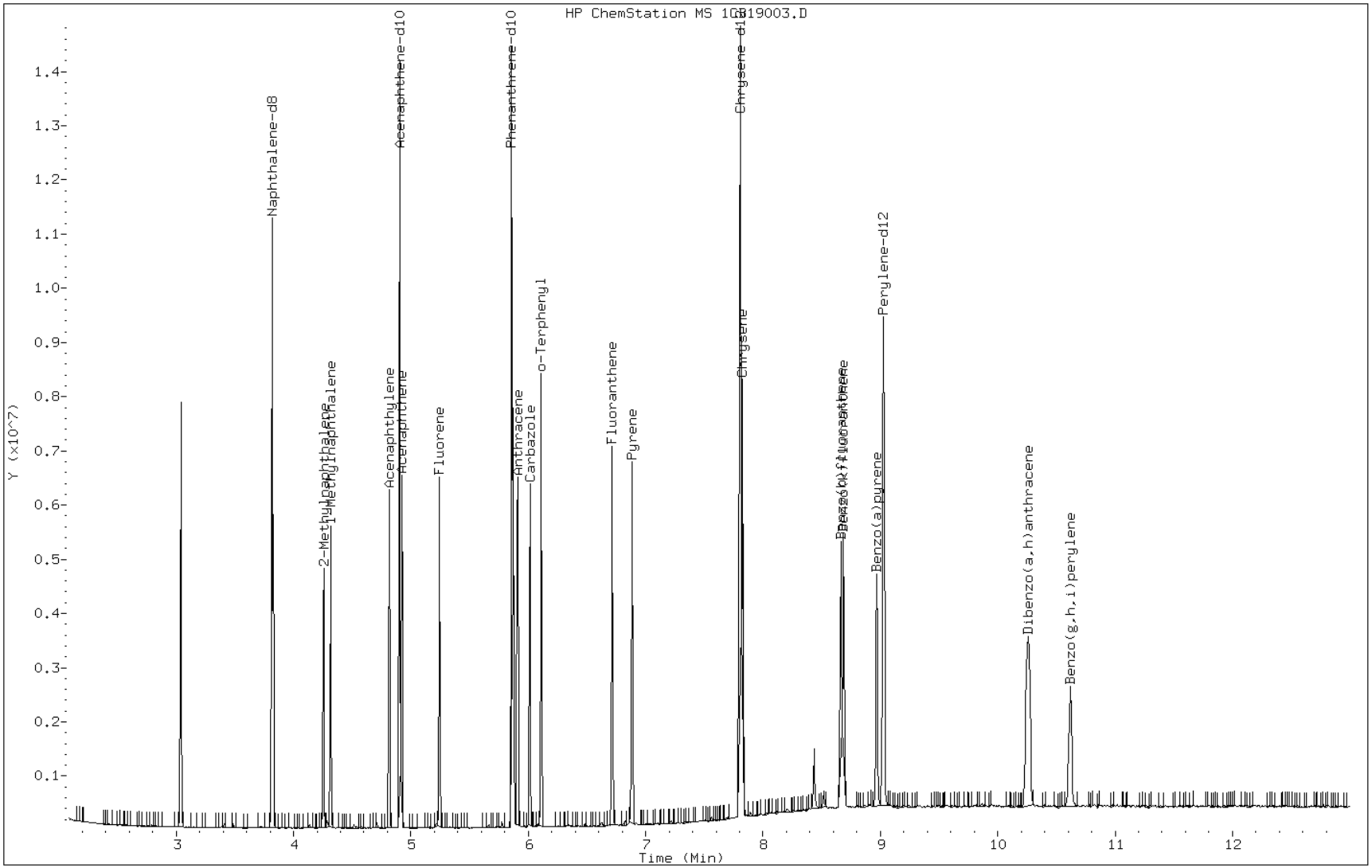
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB19003.D

Date: 19-FEB-2013 11:06

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CB19003.D
Inj. Date and Time: 19-FEB-2013 11:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

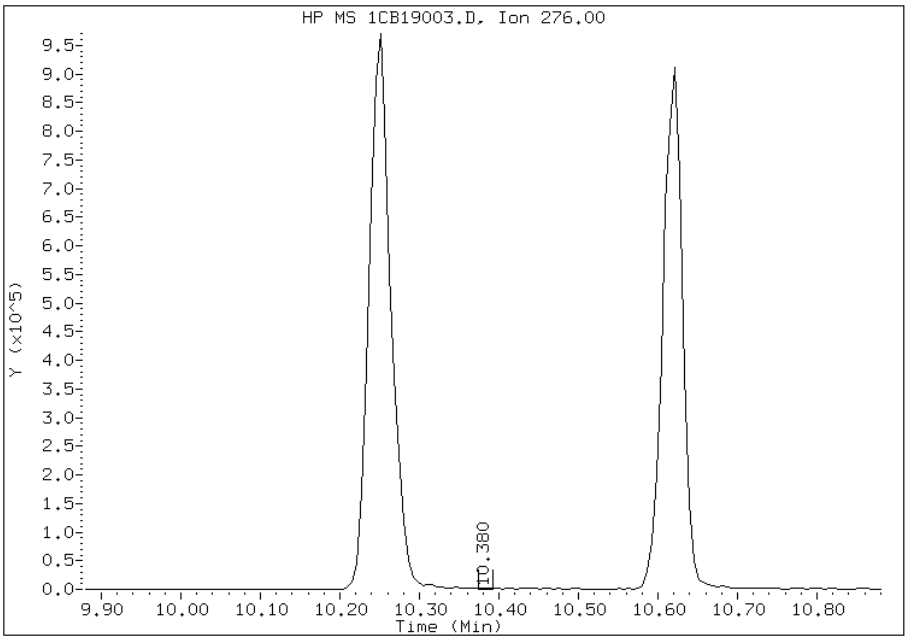
Processing Integration Results

RT: 10.38

Response: 1712

Amount: 0

Conc: 0



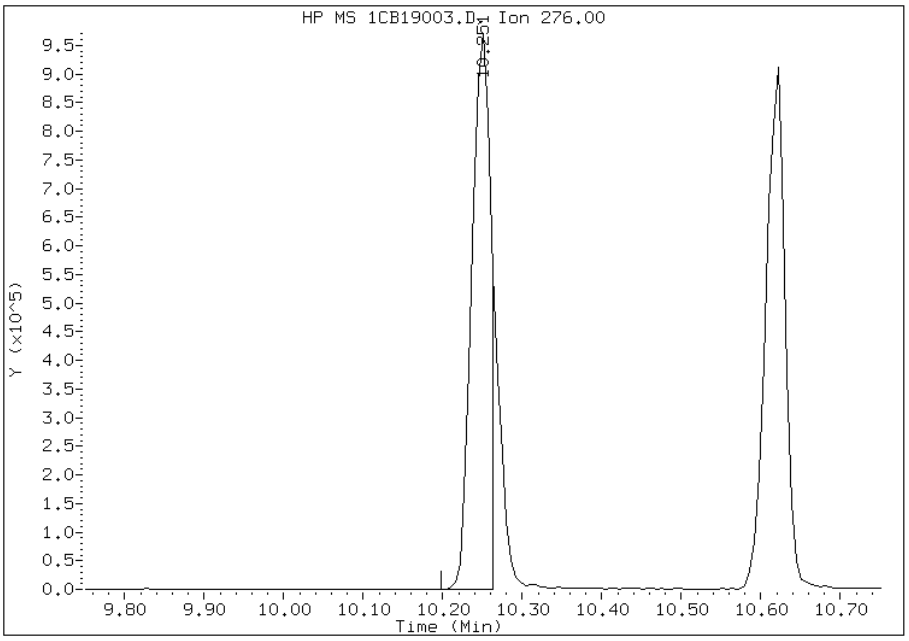
Manual Integration Results

RT: 10.25

Response: 1598683

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 11:24
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

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

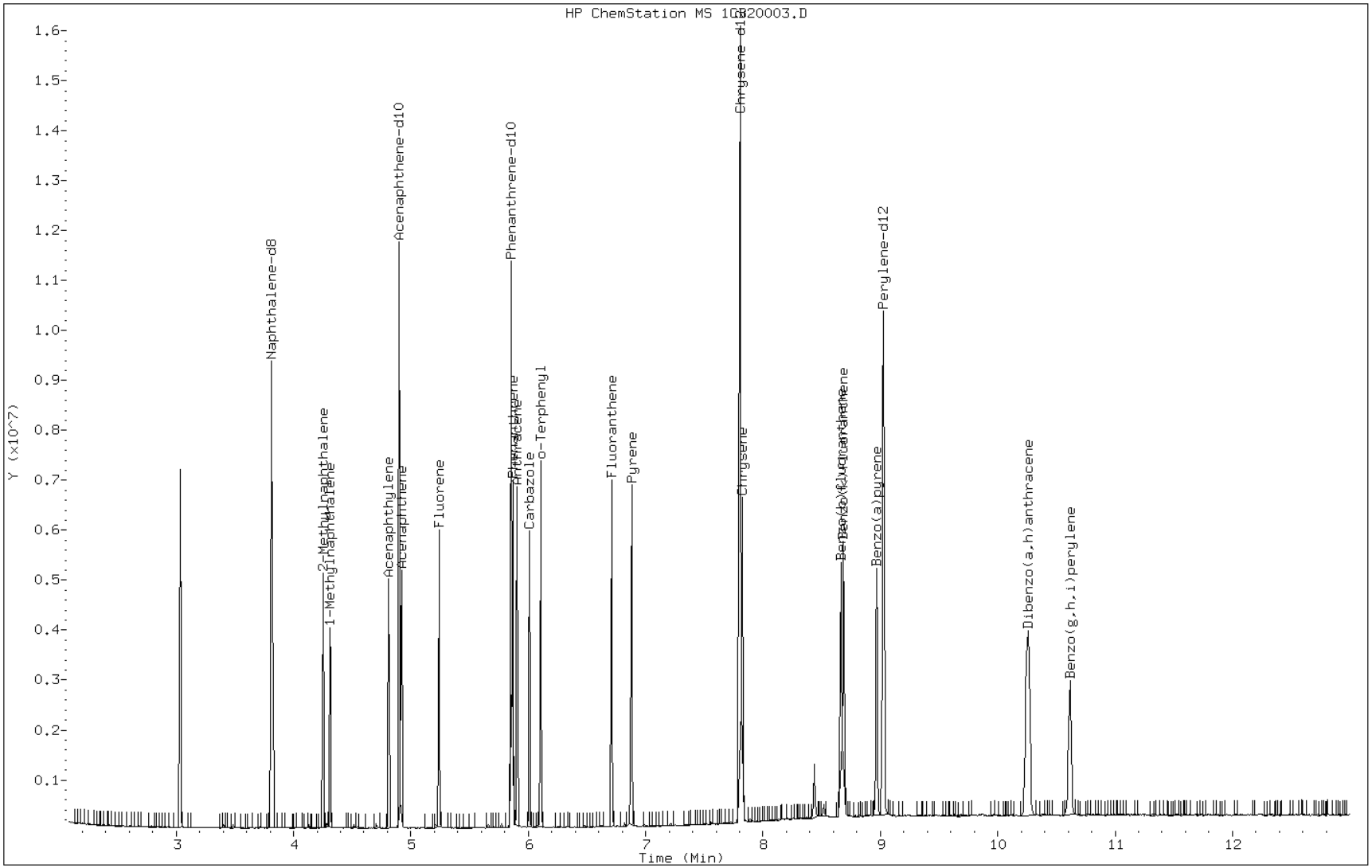
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

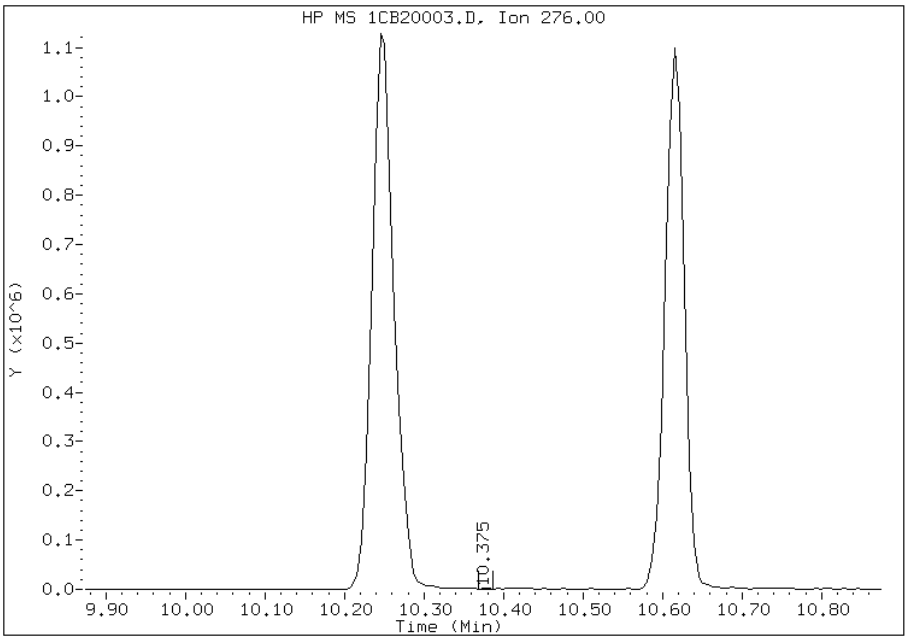
Processing Integration Results

RT: 10.37

Response: 962

Amount: 0

Conc: 0



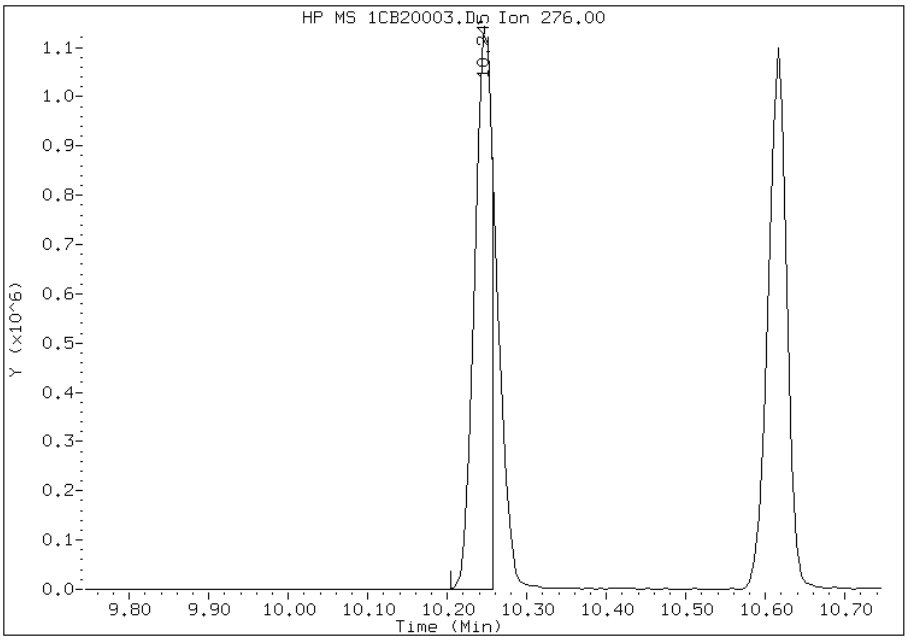
Manual Integration Results

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

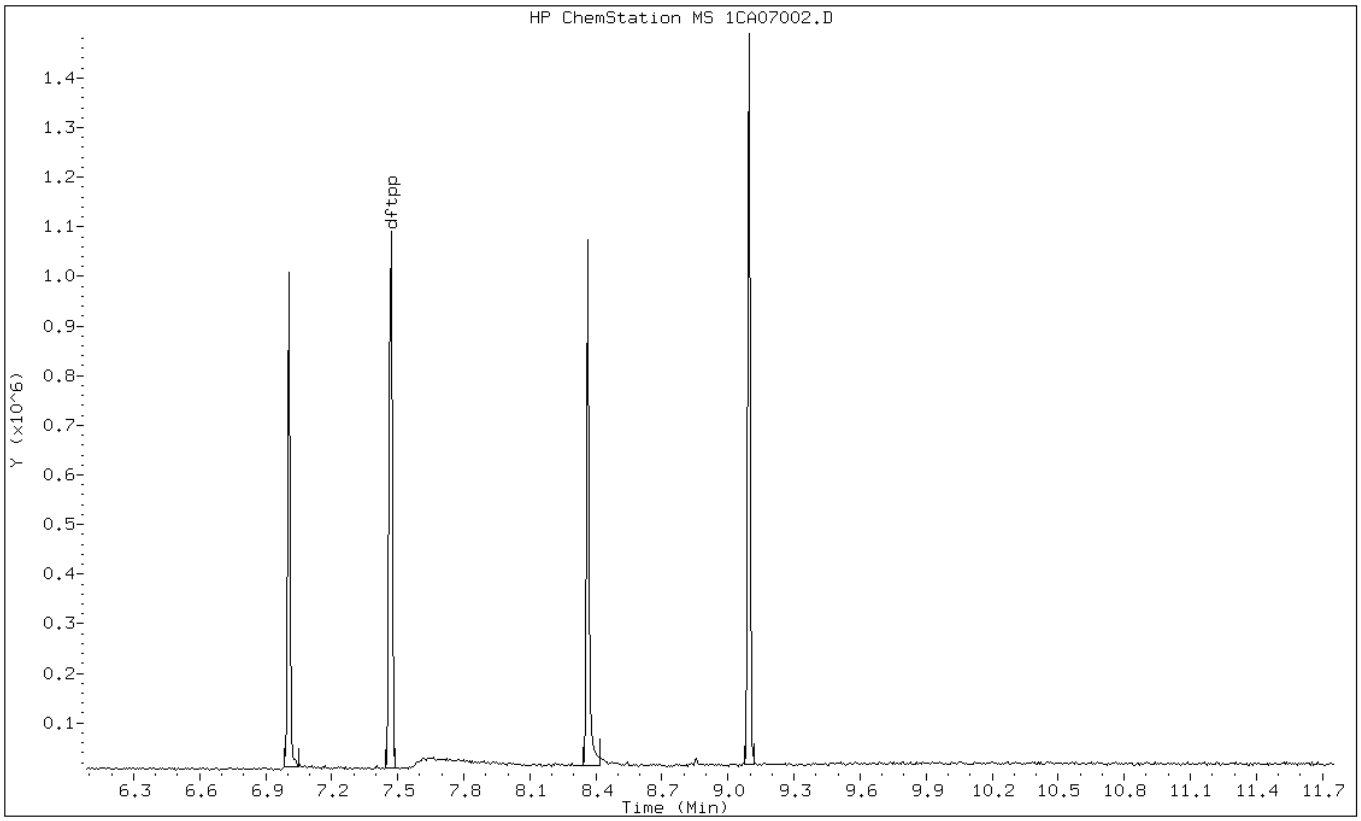
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.469	7.763	-0.294	198	127120			50.00- 0.00	100.00
7.469	7.763	-0.294	51	41280			10.00- 80.00	32.47
7.469	7.763	-0.294	68	533			0.00- 2.00	1.05
7.469	7.763	-0.294	69	50672			0.00- 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



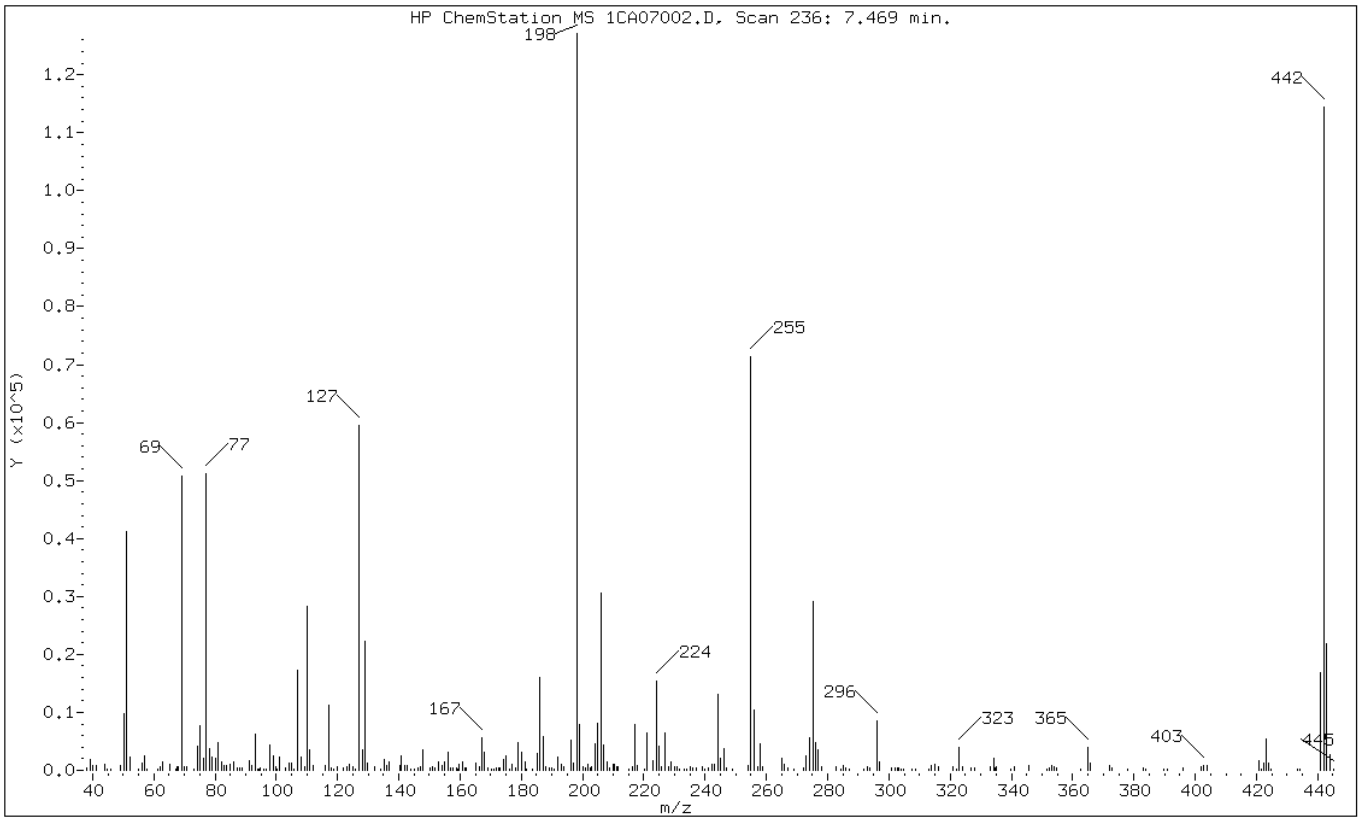
Data File: 1CA07002.D

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\1C021913.b\1CB19002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 19-FEB-2013 10:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.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

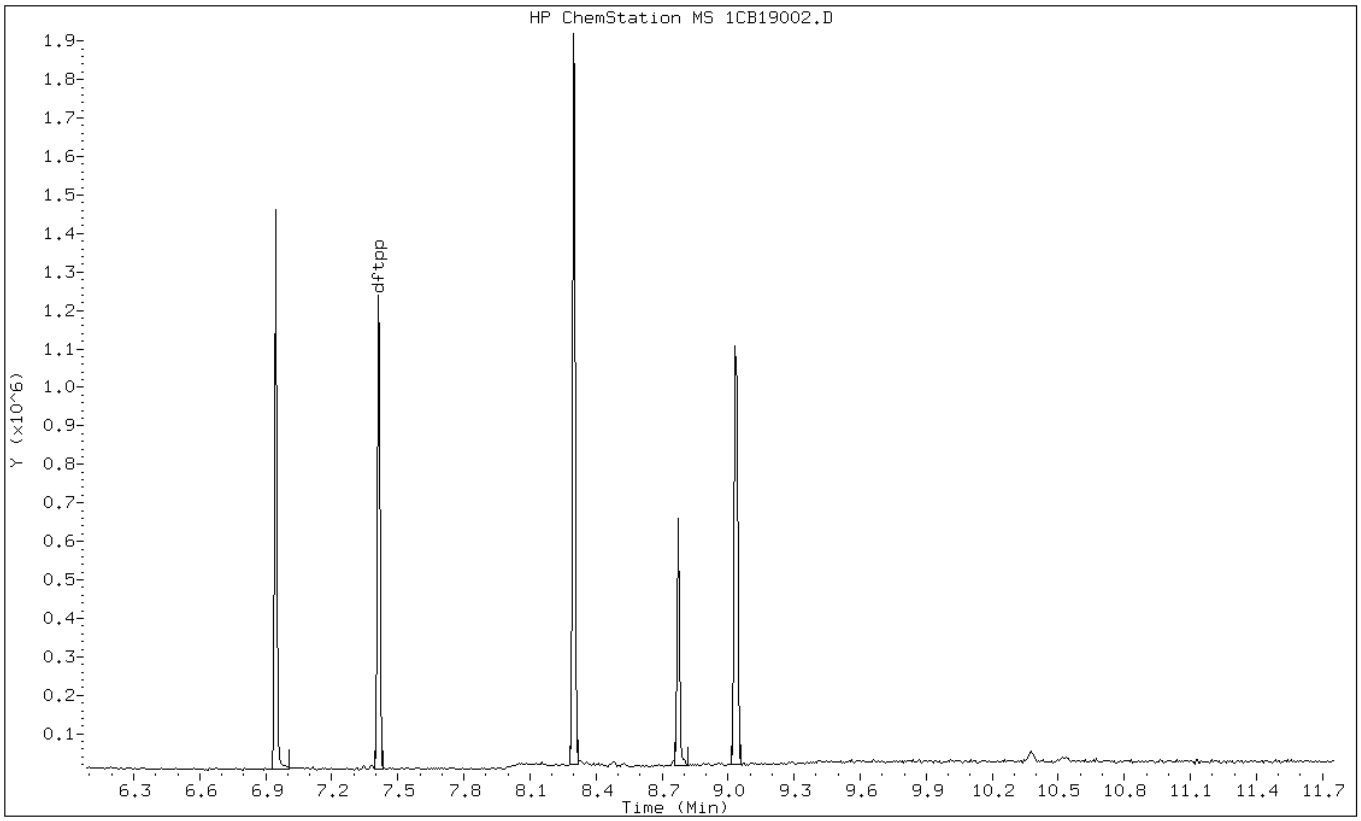
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.410	7.469	-0.059	198	147200			50.00- 0.00	100.00
7.410	7.469	-0.059	51	53328			10.00- 80.00	36.23
7.410	7.469	-0.059	68	1321			0.00- 2.00	1.80
7.410	7.469	-0.059	69	73552			0.00- 0.00	49.97
7.410	7.469	-0.059	70	245			0.00- 2.00	0.33
7.410	7.469	-0.059	127	66032			10.00- 80.00	44.86
7.410	7.469	-0.059	197	0	0.0	0.0	0.00- 2.00	0.00
7.410	7.469	-0.059	442	101280			50.00- 0.00	68.80
7.410	7.469	-0.059	199	11268			5.00- 9.00	7.65
7.410	7.469	-0.059	275	30472			10.00- 60.00	20.70
7.410	7.469	-0.059	365	5528			1.00- 0.00	3.76
7.410	7.469	-0.059	441	15640			0.01- 99.99	77.64
7.410	7.469	-0.059	443	20144			15.00- 24.00	19.89

Data File: 1CB19002.D

Date: 19-FEB-2013 10:50

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



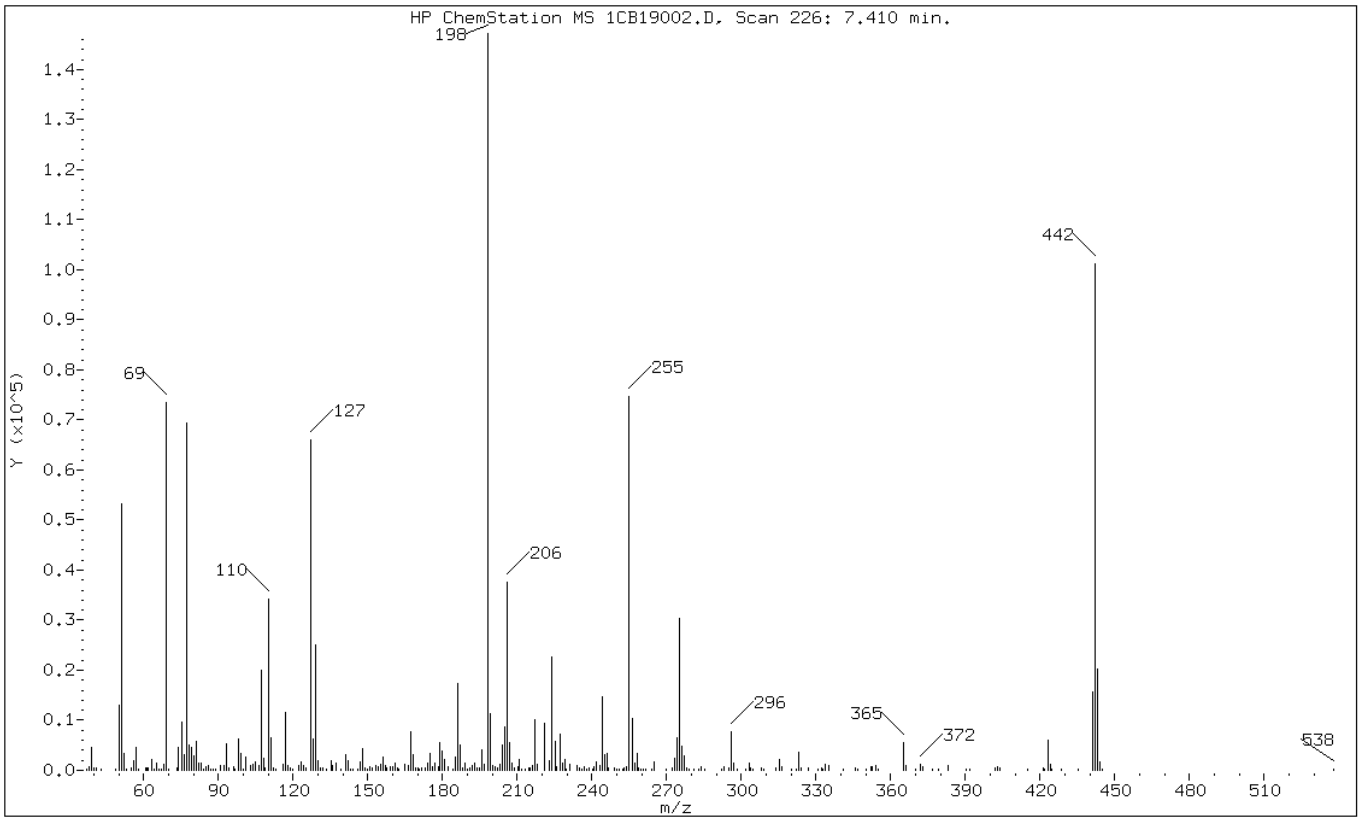
Data File: 1CB19002.D

Date: 19-FEB-2013 10:50

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	36.23
68	Less than 2.00% of mass 69	0.90 (1.80)
69	Mass 69 relative abundance	49.97
70	Less than 2.00% of mass 69	0.17 (0.33)
127	10.00 - 80.00% of mass 198	44.86
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	68.80
199	5.00 - 9.00% of mass 198	7.65
275	10.00 - 60.00% of mass 198	20.70
365	Greater than 1.00% of mass 198	3.76
441	Present, but less than mass 443	10.63
443	15.00 - 24.00% of mass 442	13.68 (19.89)

Data File: 1CB19002.D

Date: 19-FEB-2013 10:50

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19002.D
Spectrum: HP ChemStation MS 1CB19002.D, Scan 226: 7.410 min.
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	192	122.10	1052	198.00	147200	278.90	226
38.10	618	123.10	1744	199.00	11268	281.00	191
39.10	4661	124.10	998	200.00	974	283.10	180
40.00	405	125.10	542	201.20	644	284.00	726
41.00	508	127.10	66032	201.90	466	285.10	279
43.10	231	128.10	6191	202.90	1161	292.10	292
48.90	166	129.00	24936	204.10	5062	293.00	654
50.10	13119	130.00	1844	205.10	8745	295.20	453
51.10	53328	131.20	501	206.10	37656	296.00	7717
52.10	3276	131.80	525	207.10	5652	297.10	1555
53.10	328	133.60	317	208.00	1329	298.20	209
55.10	517	135.10	1811	209.10	577	301.60	160
56.00	1863	135.90	1001	210.20	683	303.00	1472
57.10	4598	137.10	1445	210.90	2195	303.90	537
58.10	226	139.10	168	212.00	244	304.70	357
60.90	496	141.00	3180	213.00	182	307.90	458
61.20	550	142.10	1814	214.70	467	308.80	237
62.00	546	143.10	332	215.20	547	313.90	457
63.10	2085	144.00	273	216.20	984	315.10	2097
64.10	236	146.00	323	217.00	10221	316.10	739
65.10	1525	147.10	1659	218.00	1105	320.40	315
66.10	203	148.00	4219	221.10	9413	322.10	189
67.30	320	149.00	517	222.90	1976	323.00	3622
68.10	1321	150.00	224	224.00	22560	324.10	456
69.10	73552	151.00	740	225.10	5745	326.70	438
69.90	245	152.00	594	226.00	820	330.90	188
73.20	594	153.10	1082	227.10	7155	332.10	439
74.00	4664	154.00	613	228.10	1456	332.80	229
75.10	9733	155.00	1297	229.00	2213	333.80	1174
76.10	3147	156.10	2617	229.90	207	335.00	969
77.10	69456	157.20	861	231.00	1115	341.00	206
78.10	5078	157.80	526	234.00	980	346.00	431
79.10	4508	159.00	717	235.00	515	346.90	209
80.00	2985	160.10	672	236.20	358	350.20	156
81.10	5830	161.00	1537	237.10	825	352.00	629
82.00	1551	161.80	390	238.10	181	352.80	748
83.00	1369	162.20	295	239.00	528	354.00	883
84.10	230	165.00	1299	240.50	327	355.10	173
85.10	833	166.20	931	241.00	807	365.00	5528
86.00	879	167.10	7774	241.90	1591	365.90	915

87.10	317	168.10	3213	243.00	952	369.80	174
88.00	215	169.20	427	244.00	14734	372.00	1091
89.00	201	170.20	525	245.00	3056	373.00	680
91.00	887	170.70	302	246.00	3342	376.90	304
92.10	1054	171.80	474	246.70	476	379.20	191
93.10	5270	173.00	578	249.00	472	383.00	919
94.00	502	174.00	1539	249.90	184	390.10	217
96.10	730	175.00	3366	251.10	306	392.00	164
96.70	189	176.20	667	252.30	286	401.90	443
98.10	6272	177.00	1468	253.00	539	402.90	734
99.10	3485	178.20	607	253.80	765	403.90	502
100.00	349	179.00	5492	255.00	74688	415.10	345
101.00	2740	180.00	3958	256.10	10276	421.20	414
103.00	1035	181.00	2098	257.10	1398	422.00	226
104.00	1106	182.10	619	258.00	3341	423.10	5939
105.00	1579	184.00	170	258.90	499	424.00	1245
106.10	1049	185.10	2697	259.70	261	424.70	243
107.10	20072	186.10	17376	260.80	346	428.50	336
108.00	2475	187.10	5141	261.80	183	435.40	232
108.80	424	188.10	568	264.00	289	441.00	15640
110.00	34136	189.20	1341	265.10	1577	442.00	101280
111.10	6521	189.90	289	269.90	176	443.10	20144
112.00	520	191.00	494	272.30	465	444.00	1652
113.00	154	192.10	984	273.00	2497	445.00	158
116.10	1266	192.90	1457	274.00	6615	537.90	152
117.00	11651	194.00	498	275.00	30472		
118.00	1030	194.80	469	276.10	4858		
119.00	397	196.00	4165	276.90	2927		
120.00	184	196.60	1116	277.90	399		

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

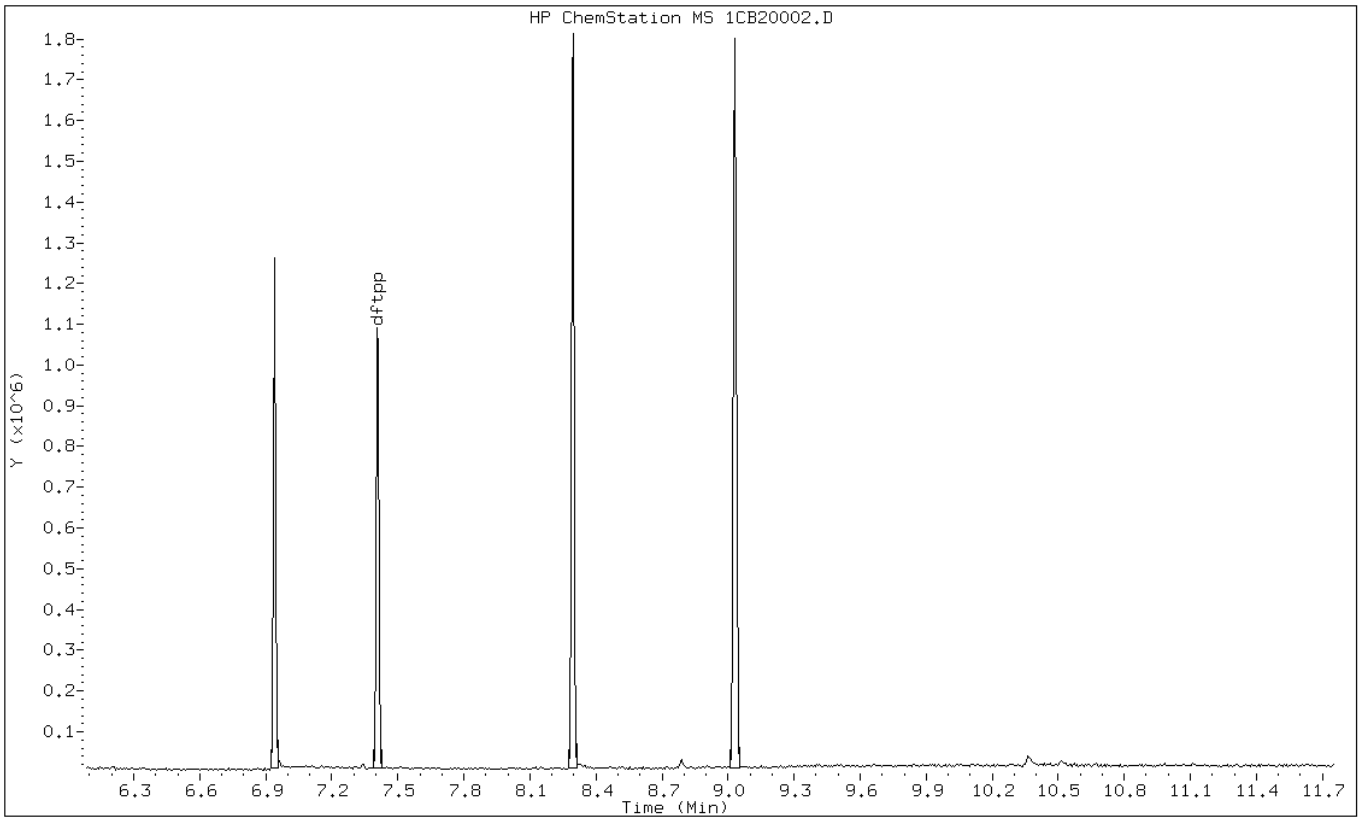
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.404	7.469	-0.065	198	131840			50.00- 0.00	100.00
7.404	7.469	-0.065	51	48176			10.00- 80.00	36.54
7.404	7.469	-0.065	68	824			0.00- 2.00	1.26
7.404	7.469	-0.065	69	65312			0.00- 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



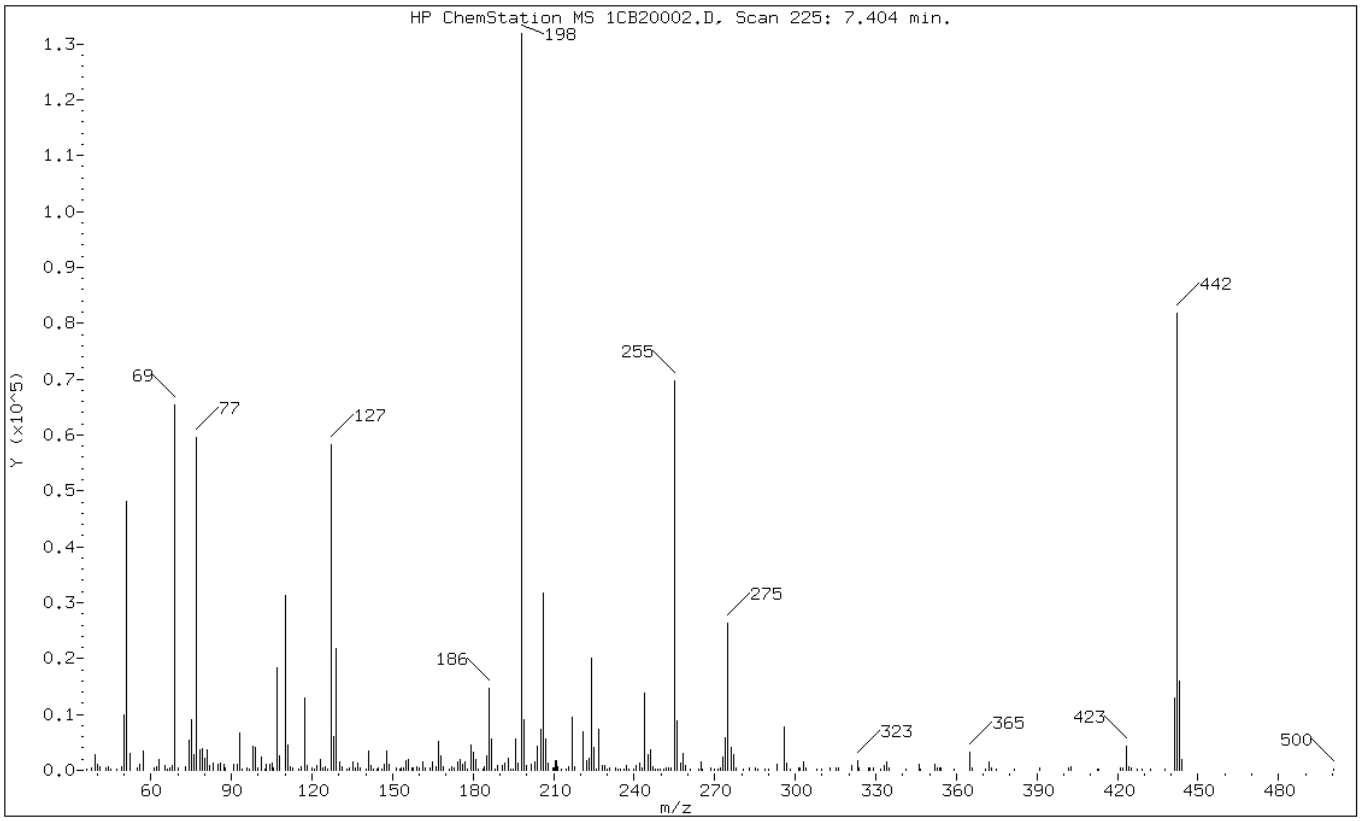
Data File: 1CB20002.D

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.: 680-87320-2
SDG No.: 68087320-2
Client Sample ID:
Lab Sample ID: MB 660-134575/1-A
Matrix: Solid
Lab File ID: 1CB19005.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/18/2013 11:03
Sample wt/vol: 15.17(g)
Date Analyzed: 02/19/2013 14:47
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.: 134673
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	4.9
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19005.D
Lab Smp Id: mb 660-134575/1-a
Inj Date : 19-FEB-2013 14:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134575/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 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	15.170	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	3.816	3.816	(1.000)	2045775	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.904	(1.000)	1629406	40.0000	
* 10 Phenanthrene-d10	188	5.874	5.857	(1.000)	2925589	40.0000	(H)
$ 14 o-Terphenyl	230	6.127	6.110	(1.043)	373905	8.72253	574.9857(H)
* 18 Chrysene-d12	240	7.827	7.809	(1.000)	3238232	40.0000	
* 23 Perylene-d12	264	9.062	9.027	(1.000)	3085834	40.0000	(H)

QC Flag Legend

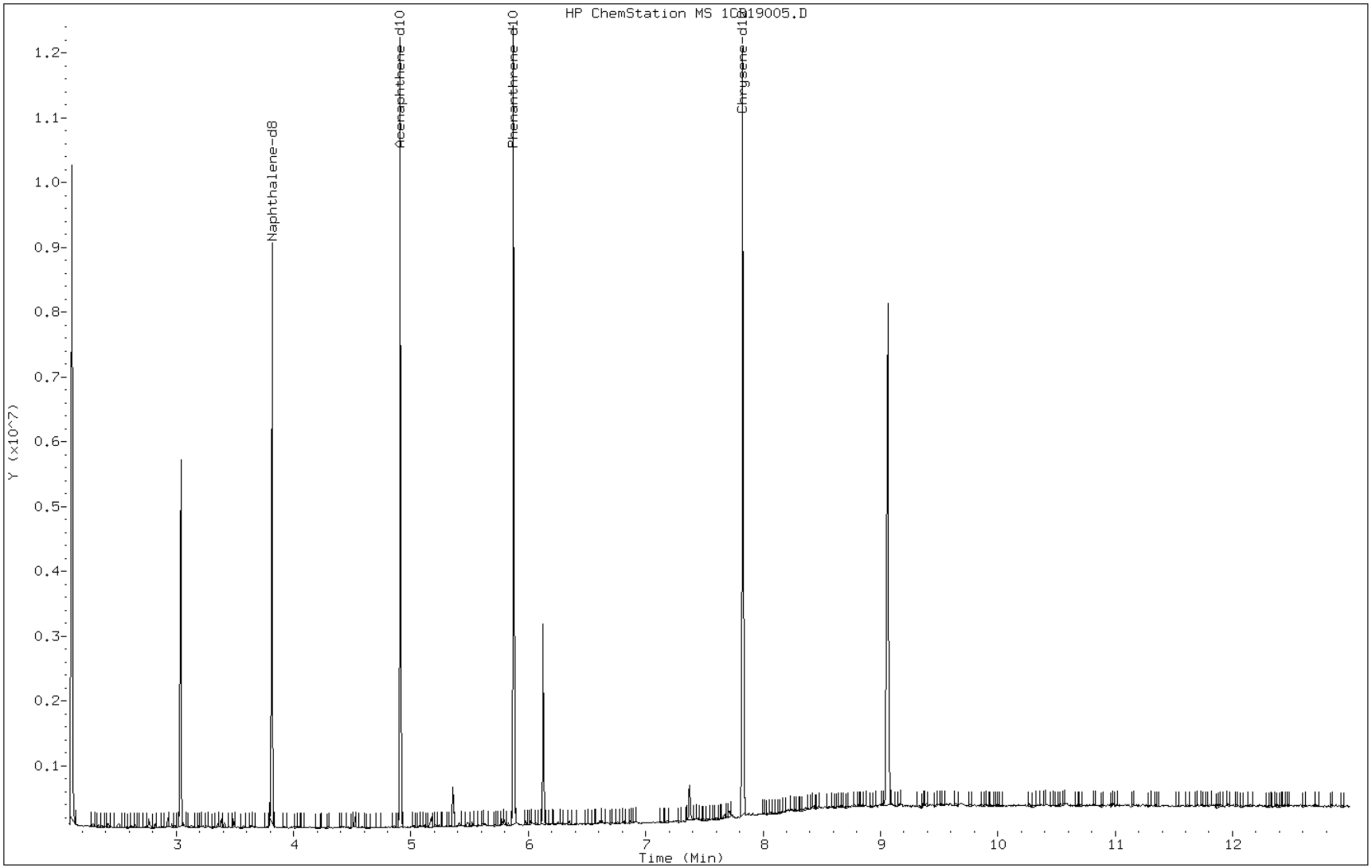
H - Operator selected an alternate compound hit.

Data File: 1CB19005.D

Date: 19-FEB-2013 14:47

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134575/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

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

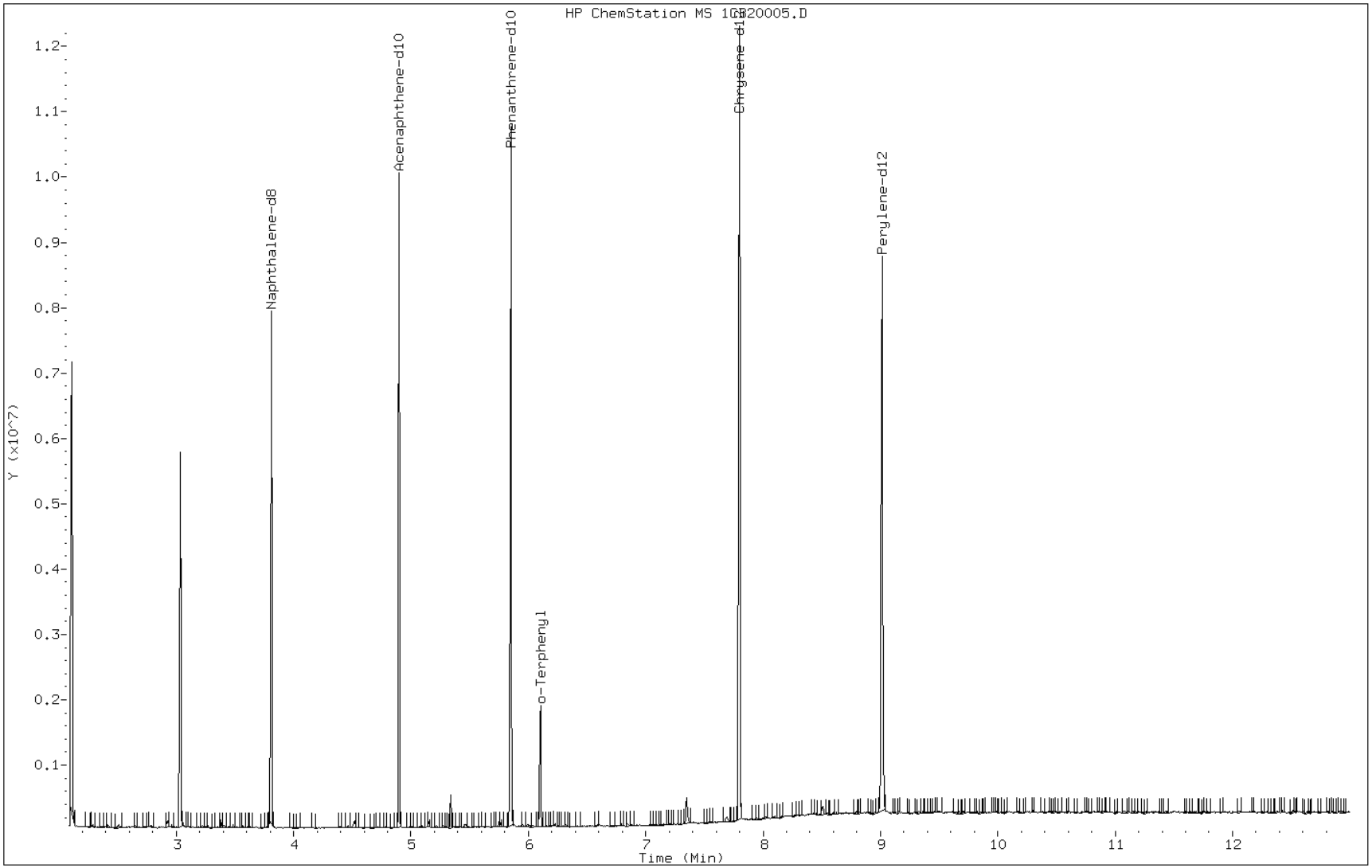
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	1782536	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1348359	40.0000	
* 10 Phenanthrene-d10	188	5.851	5.851	(1.000)	2514028	40.0000	
$ 14 o-Terphenyl	230	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.: 680-87320-2
SDG No.: 68087320-2
Client Sample ID:
Lab Sample ID: LCS 660-134575/2-A
Matrix: Solid
Lab File ID: 1CB19006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/18/2013 11:03
Sample wt/vol: 15.36(g)
Date Analyzed: 02/19/2013 15:05
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.: 134673
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	487		98	20
208-96-8	Acenaphthylene	530		39	4.9
120-12-7	Anthracene	554		8.2	4.1
56-55-3	Benzo[a]anthracene	579		7.8	3.8
50-32-8	Benzo[a]pyrene	540		10	5.1
205-99-2	Benzo[b]fluoranthene	569		12	6.0
191-24-2	Benzo[g,h,i]perylene	511		20	4.3
207-08-9	Benzo[k]fluoranthene	552		7.8	3.5
218-01-9	Chrysene	499		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	516		20	4.0
206-44-0	Fluoranthene	567		20	3.9
86-73-7	Fluorene	520		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	514		20	6.9
90-12-0	1-Methylnaphthalene	560		39	4.3
91-57-6	2-Methylnaphthalene	518		39	6.9
91-20-3	Naphthalene	480		39	4.3
85-01-8	Phenanthrene	485		7.8	3.8
129-00-0	Pyrene	580		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	92		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19006.D
Lab Smp Id: lcs 660-134575/2-a
Inj Date : 19-FEB-2013 15:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134575/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 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	15.360	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	3.816	3.816	(1.000)	1929802	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1544217	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2839629	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	382008	9.18133	597.7427
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	3148649	40.0000	
* 23 Perylene-d12	264	9.033	9.027	(1.000)	2975764	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	376759	7.36761	479.6618
3 2-Methylnaphthalene	142	4.251	4.257	(1.114)	264352	7.95028	517.5962
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	259937	8.59551	559.6036
5 Acenaphthylene	152	4.816	4.816	(0.982)	500353	8.14437	530.2323
7 Acenaphthene	154	4.921	4.921	(1.004)	287951	7.47314	486.5323
9 Fluorene	166	5.245	5.245	(1.070)	395296	7.99206	520.3164
11 Phenanthrene	178	5.874	5.874	(1.003)	631426	7.44949	484.9926
12 Anthracene	178	5.904	5.910	(1.008)	649868	8.50980	554.0234

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.016	6.015	(1.027)	575841	8.68094	565.1653
15 Fluoranthene	202	6.715	6.715	(1.147)	721501	8.71133	567.1440
16 Pyrene	202	6.880	6.886	(0.881)	747386	8.91606	580.4724
17 Benzo(a)anthracene	228	7.798	7.798	(0.998)	772372	8.89539	579.1269
19 Chrysene	228	7.827	7.827	(1.002)	686894	7.65861	498.6077
20 Benzo(b)fluoranthene	252	8.668	8.662	(0.960)	637446	8.73740	568.8411
21 Benzo(k)fluoranthene	252	8.692	8.686	(0.962)	681052	8.47360	551.6668
22 Benzo(a)pyrene	252	8.974	8.968	(0.993)	576318	8.30169	540.4747
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.251	(1.135)	526594	7.89755	514.1636(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.268	(1.137)	498324	7.92517	515.9616
26 Benzo(g,h,i)perylene	276	10.621	10.621	(1.176)	532111	7.85617	511.4690

QC Flag Legend

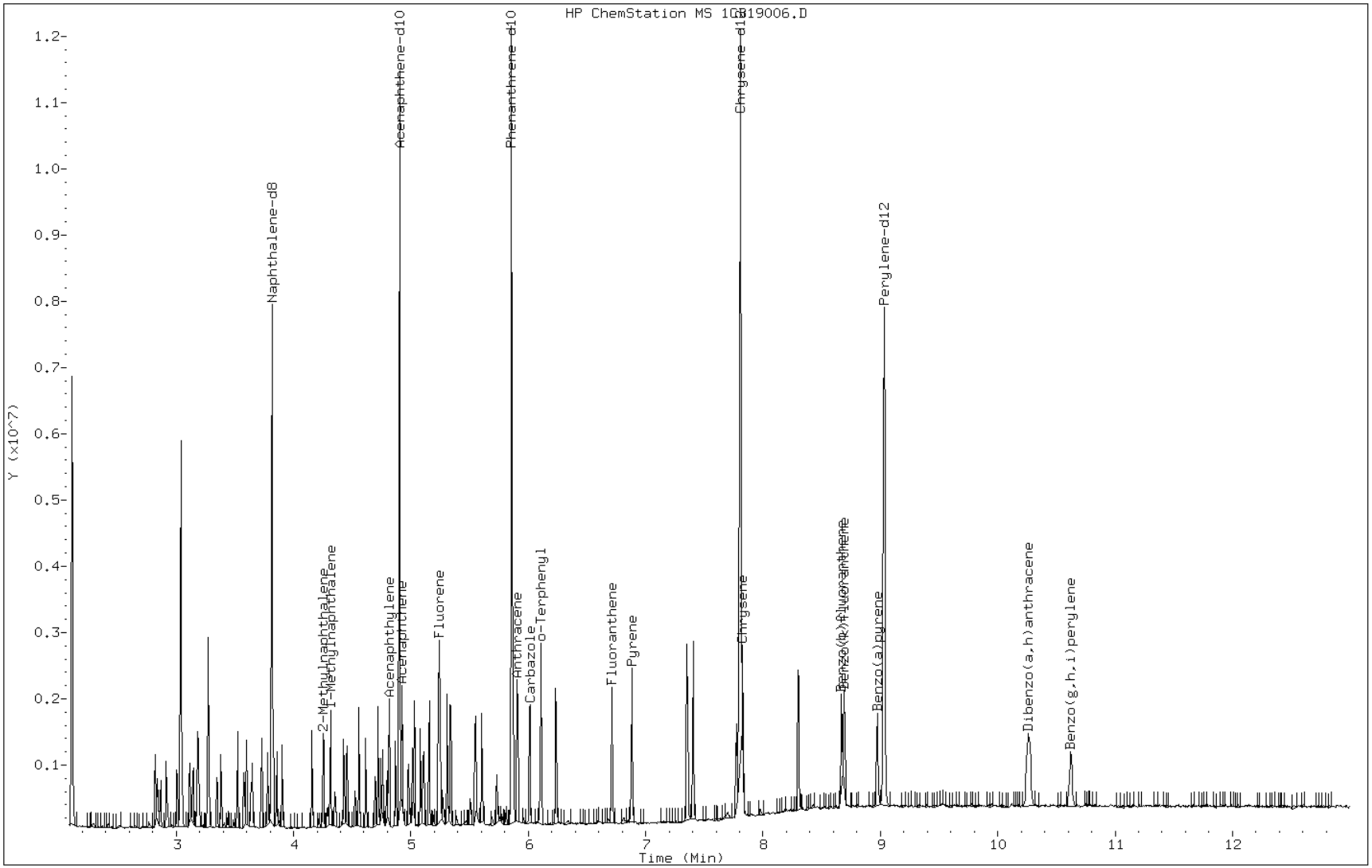
M - Compound response manually integrated.

Data File: 1CB19006.D

Date: 19-FEB-2013 15:05

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-134575/2-a Operator: SCC



Manual Integration Report

Data File: 1CB19006.D
Inj. Date and Time: 19-FEB-2013 15:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

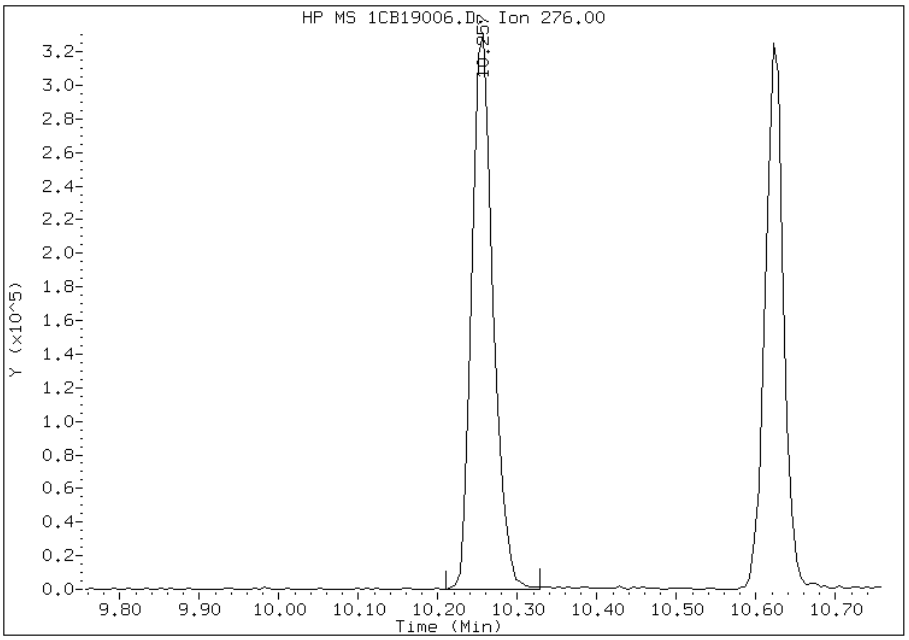
Processing Integration Results

RT: 10.26

Response: 613665

Amount: 9

Conc: 599



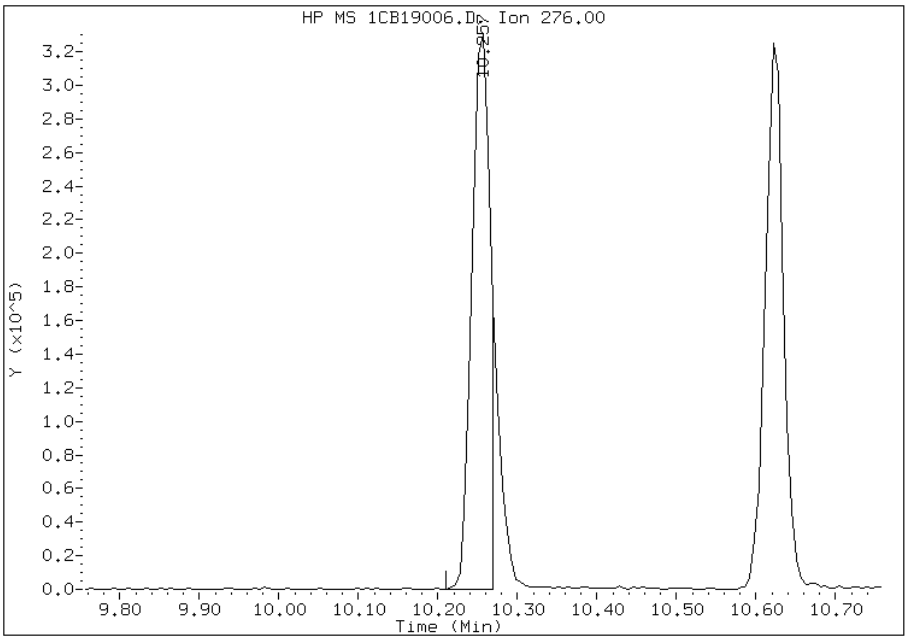
Manual Integration Results

RT: 10.26

Response: 526594

Amount: 8

Conc: 514



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87320-2
SDG No.: 68087320-2
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

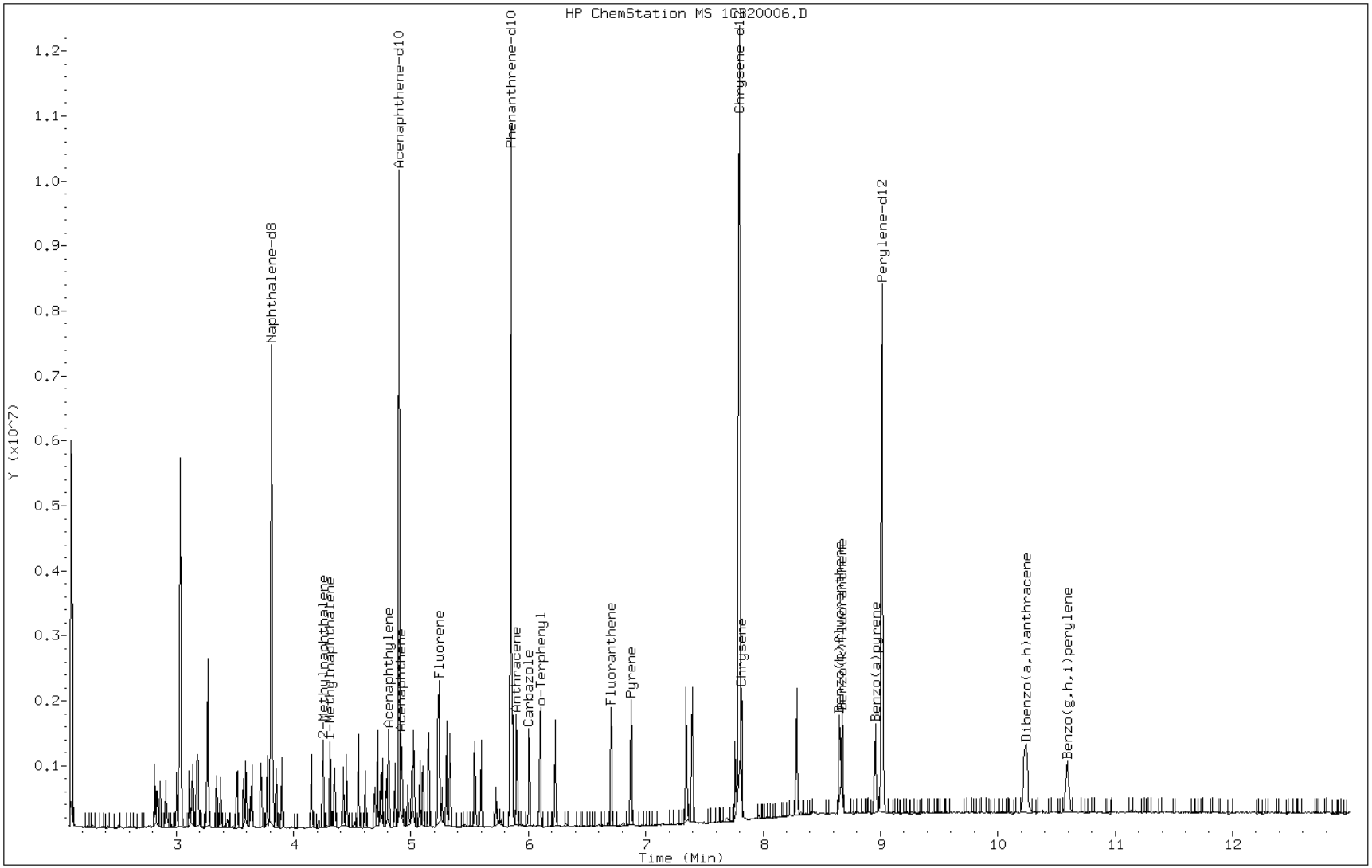
Date: 20-FEB-2013 15:15

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

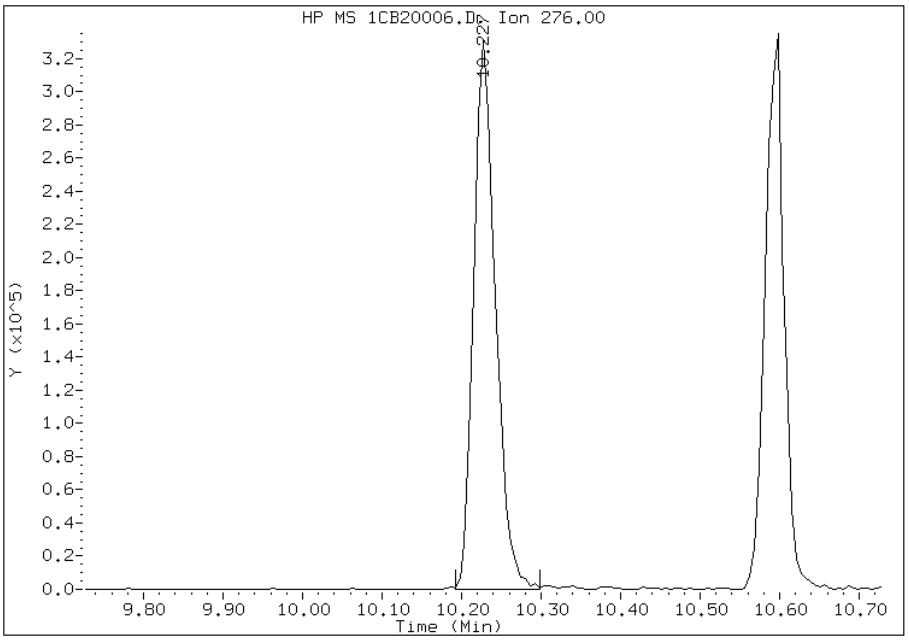
Processing Integration Results

RT: 10.23

Response: 623482

Amount: 9

Conc: 571



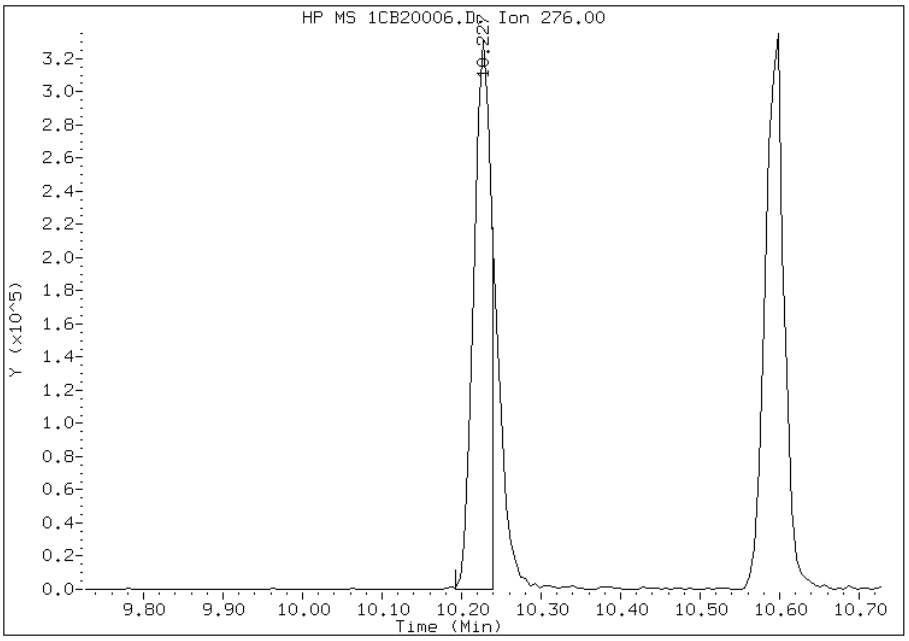
Manual Integration Results

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.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: | Lab Sample ID: 680-87447-A-2-B MS

Matrix: Solid | Lab File ID: 1CB20014.D

Analysis Method: 8270C LL | Date Collected:

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

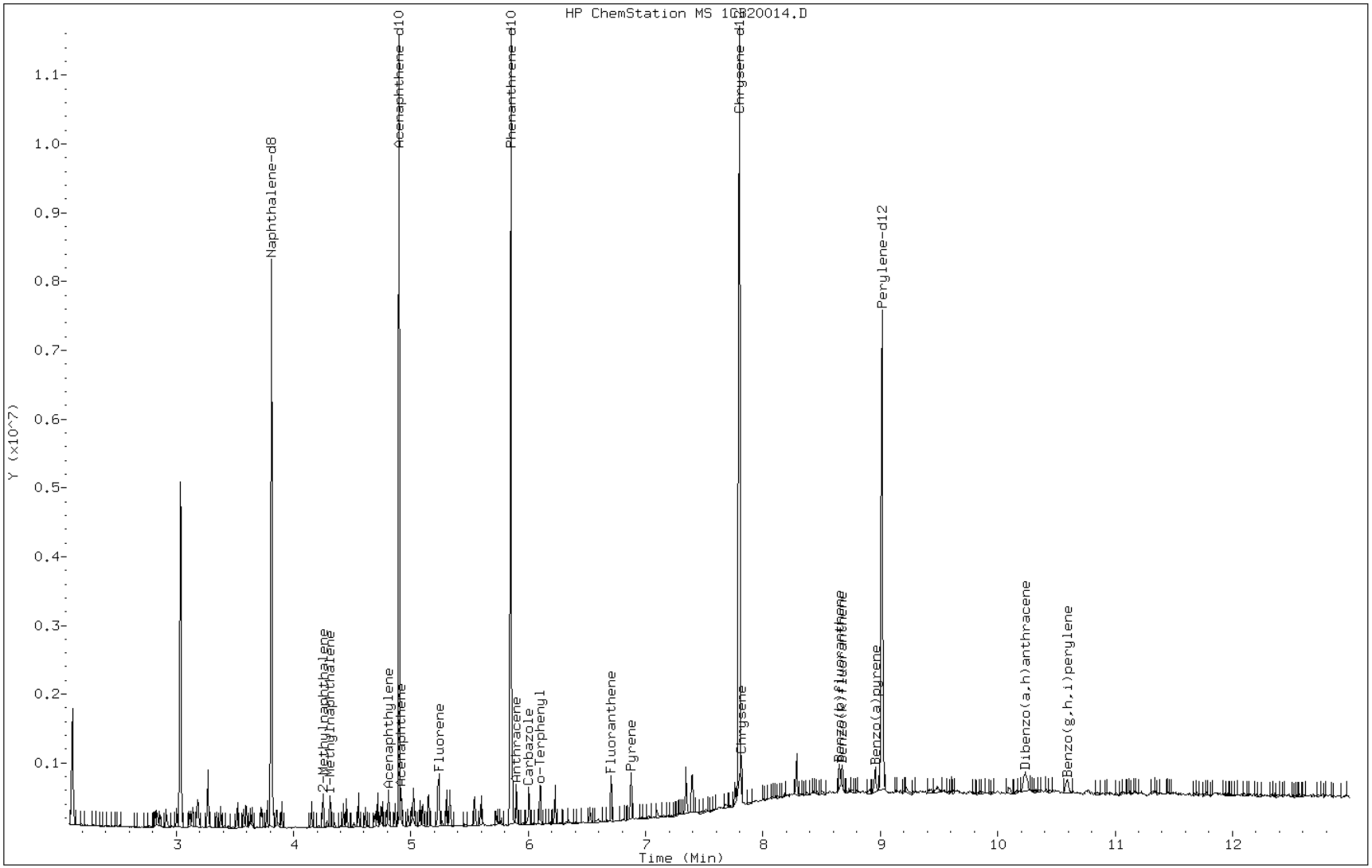
M - Compound response manually integrated.

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

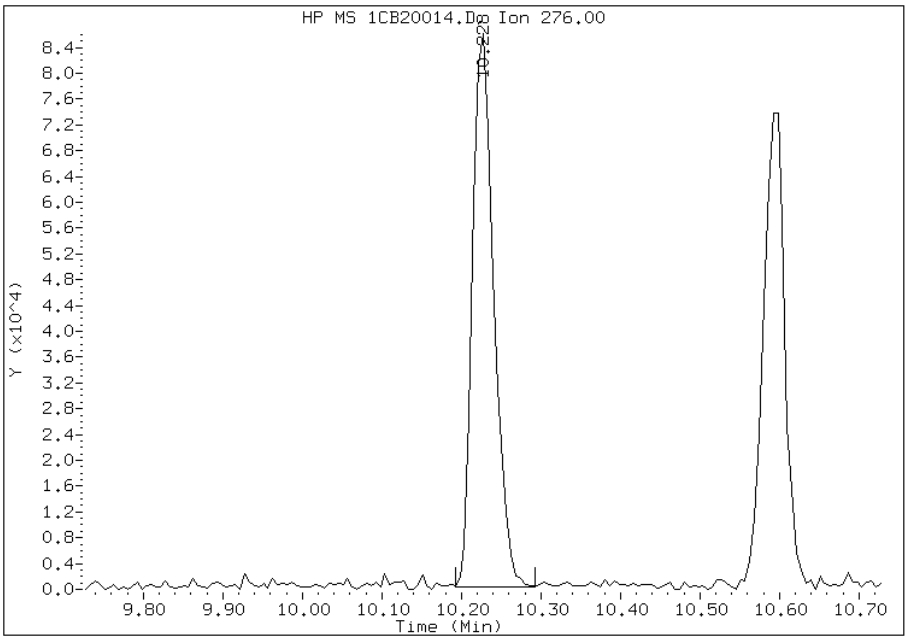
Processing Integration Results

RT: 10.23

Response: 158996

Amount: 3

Conc: 662



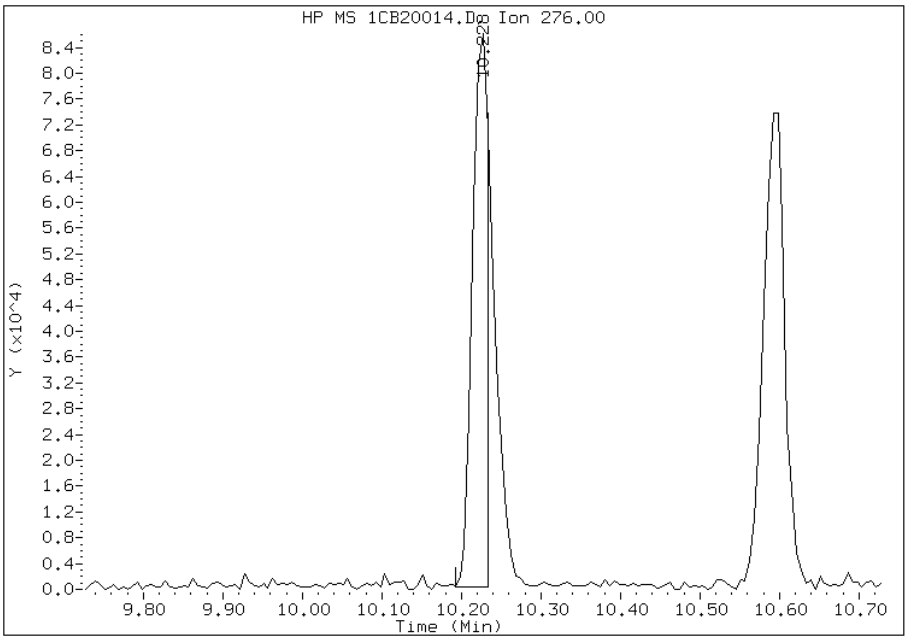
Manual Integration Results

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.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748AD-GS MS | Lab Sample ID: 680-87320-21 MS

Matrix: Solid | Lab File ID: 1CB19016.D

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

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 15.21(g) | Date Analyzed: 02/19/2013 18:07

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

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

% Moisture: 27.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	641		540	110
208-96-8	Acenaphthylene	795		220	27
120-12-7	Anthracene	862		45	23
56-55-3	Benzo[a]anthracene	1230		43	21
50-32-8	Benzo[a]pyrene	1190		56	28
205-99-2	Benzo[b]fluoranthene	1680		66	33
191-24-2	Benzo[g,h,i]perylene	1020		110	24
207-08-9	Benzo[k]fluoranthene	1000		43	19
218-01-9	Chrysene	1290		49	24
53-70-3	Dibenz(a,h)anthracene	796		110	22
206-44-0	Fluoranthene	1470		110	22
86-73-7	Fluorene	735		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	972		110	38
90-12-0	1-Methylnaphthalene	920		220	24
91-57-6	2-Methylnaphthalene	848		220	38
91-20-3	Naphthalene	843		220	24
85-01-8	Phenanthrene	1100		43	21
129-00-0	Pyrene	1620		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19016.D
Lab Smp Id: 680-87320-a-21-b ms
Inj Date : 19-FEB-2013 18:07
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-21-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 16 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	15.210	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	3.816	3.816	(1.000)	2153571	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1647626	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2961943	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	104657	2.41149	634.1865
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2919460	40.0000	
* 23 Perylene-d12	264	9.021	9.027	(1.000)	2747924	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	133355	2.33682	614.5488
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	87297	2.35262	618.7046
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	86127	2.55209	671.1618
5 Acenaphthylene	152	4.816	4.816	(0.982)	144488	2.20426	579.6864
7 Acenaphthene	154	4.921	4.921	(1.004)	73139	1.77903	467.8577
9 Fluorene	166	5.245	5.245	(1.070)	107628	2.03944	536.3423
11 Phenanthrene	178	5.874	5.874	(1.003)	270217	3.05634	803.7708
12 Anthracene	178	5.904	5.910	(1.008)	190492	2.39142	628.9073

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	164250	2.37386	624.2883
15 Fluoranthene	202	6.715	6.715	(1.147)	351063	4.06366	1068.6816(R)
16 Pyrene	202	6.880	6.886	(0.882)	349466	4.49629	1182.4569(R)
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	273959	3.40287	894.9041(R)
19 Chrysene	228	7.821	7.827	(1.002)	297159	3.57331	939.7273(R)
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	313310	4.65058	1223.0314(R)
21 Benzo(k)fluoranthene	252	8.680	8.686	(0.962)	206481	2.78203	731.6316
22 Benzo(a)pyrene	252	8.962	8.968	(0.993)	211628	3.30120	868.1646(R)
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.251	(1.135)	165941	2.69503	708.7530(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.138)	128225	2.20833	580.7565
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.177)	177198	2.83309	745.0608

QC Flag Legend

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

Data File: 1CB19016.D

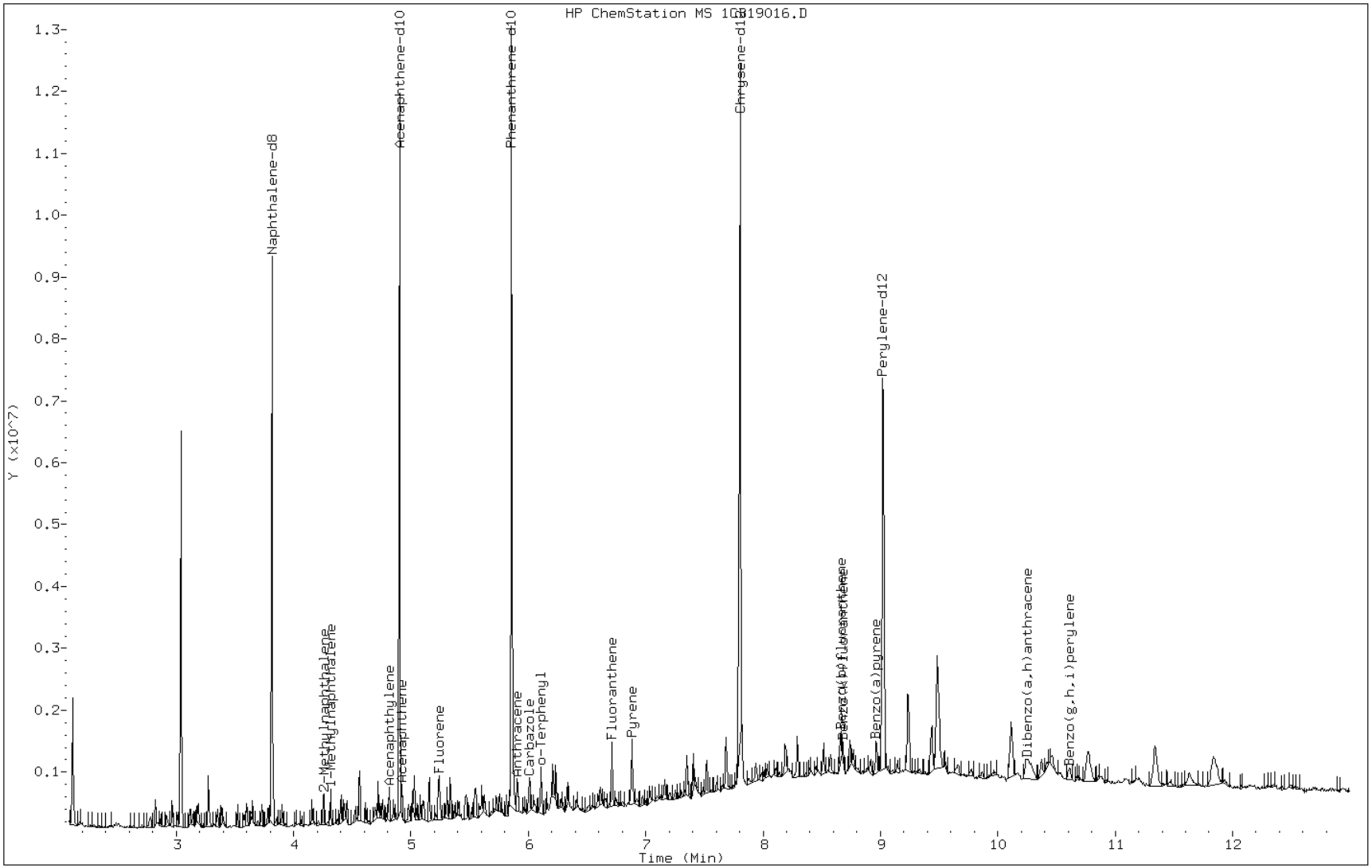
Date: 19-FEB-2013 18:07

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-b ms

Operator: SCC



Manual Integration Report

Data File: 1CB19016.D
Inj. Date and Time: 19-FEB-2013 18:07
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

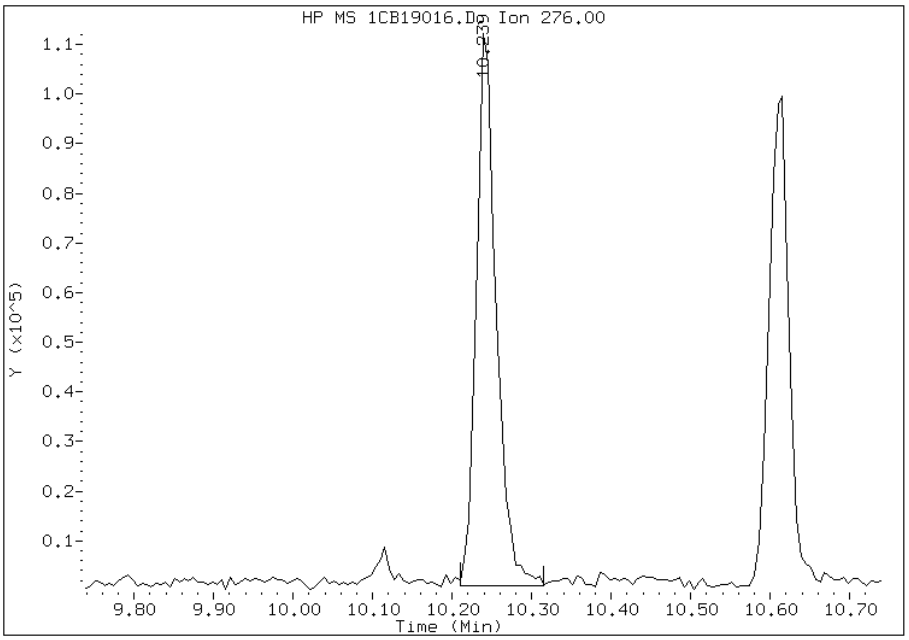
Processing Integration Results

RT: 10.24

Response: 193036

Amount: 3

Conc: 824



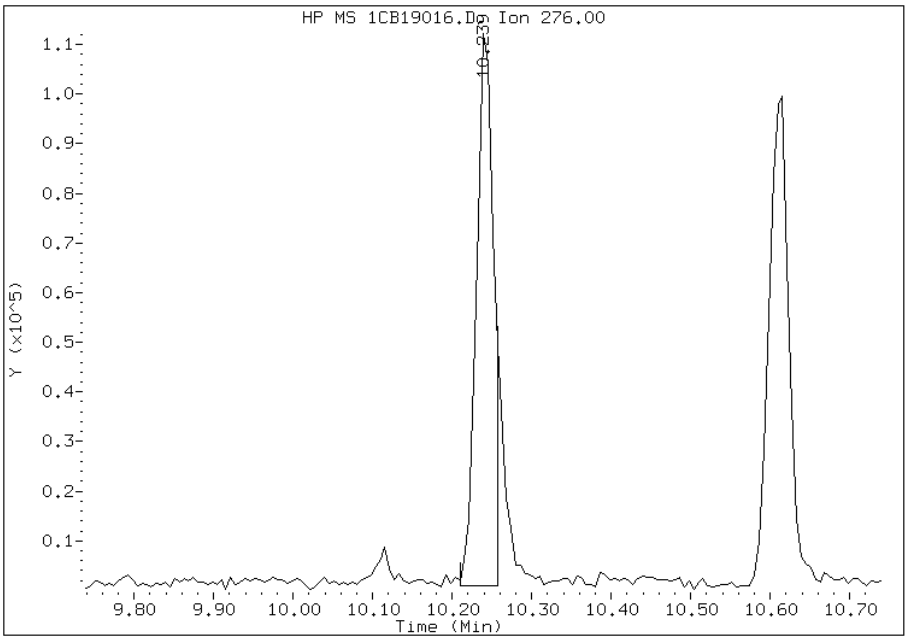
Manual Integration Results

RT: 10.24

Response: 165941

Amount: 3

Conc: 709



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87320-2
SDG No.: 68087320-2
Client Sample ID:
Lab Sample ID: 680-87447-A-2-C MSD
Matrix: Solid
Lab File ID: 1CB20015.D
Analysis Method: 8270C LL
Date Collected:
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

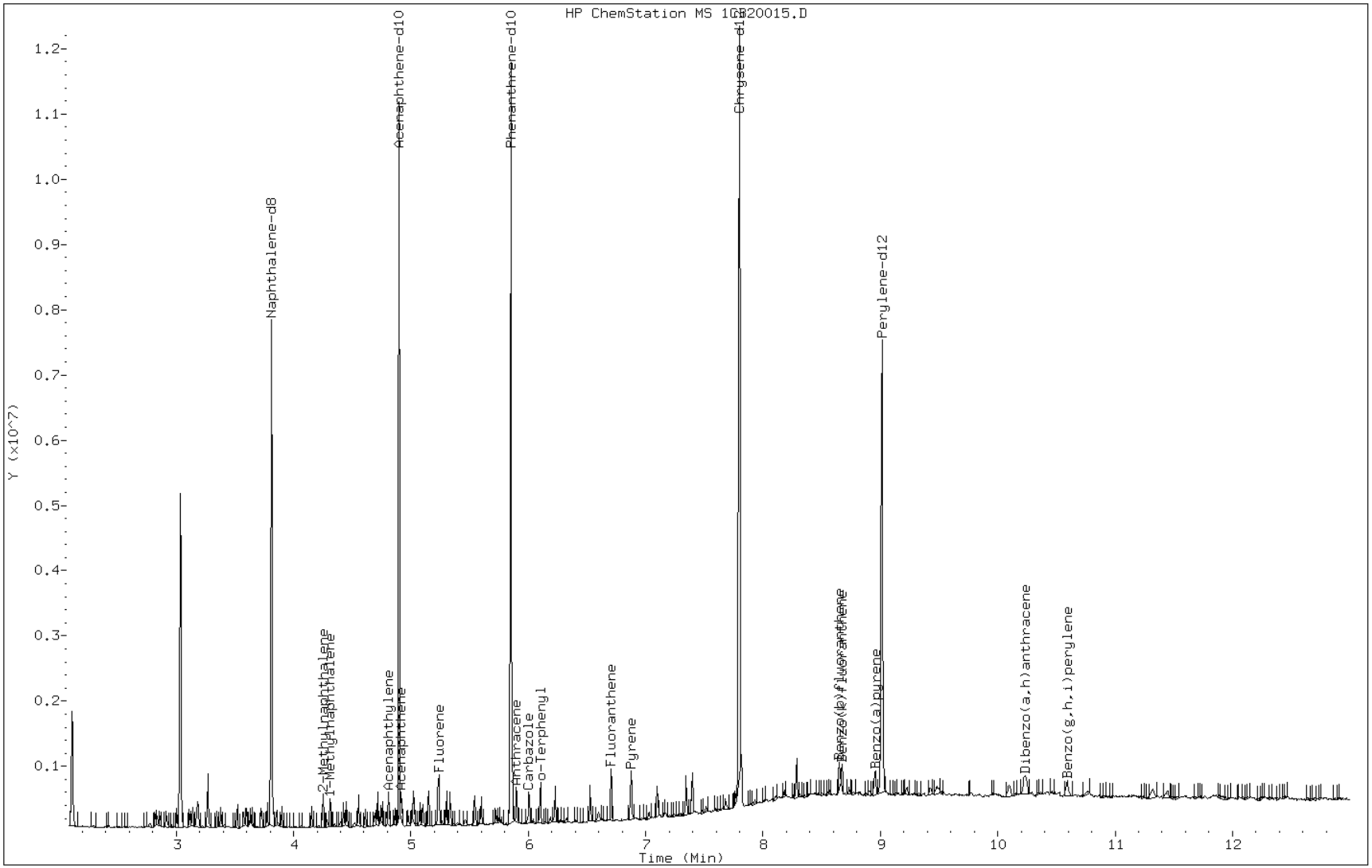
M - Compound response manually integrated.

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

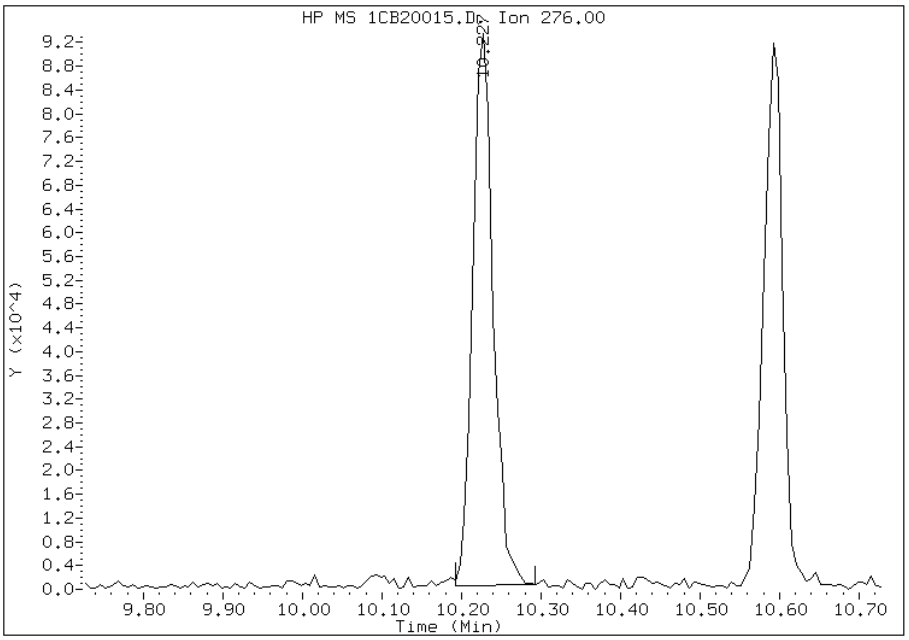
Processing Integration Results

RT: 10.23

Response: 165728

Amount: 3

Conc: 692



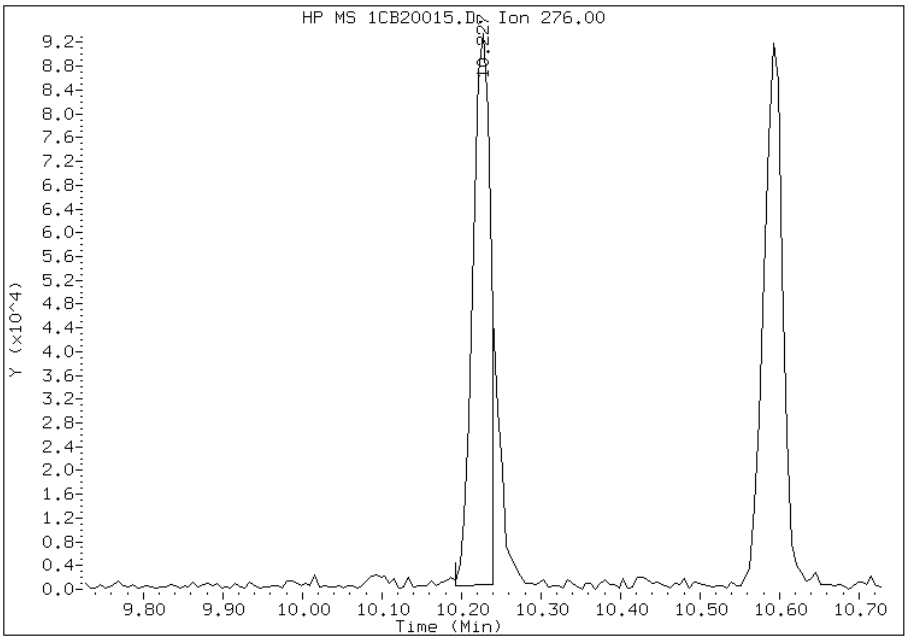
Manual Integration Results

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-2

SDG No.: 68087320-2

Client Sample ID: CV0748AD-GS MSD | Lab Sample ID: 680-87320-21 MSD

Matrix: Solid | Lab File ID: 1CB19017.D

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

Extract. Method: 3546 | Date Extracted: 02/18/2013 11:03

Sample wt/vol: 15.21(g) | Date Analyzed: 02/19/2013 18:26

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

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

% Moisture: 27.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134673 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	856		540	110
208-96-8	Acenaphthylene	920		220	27
120-12-7	Anthracene	1040		45	23
56-55-3	Benzo[a]anthracene	1600		43	21
50-32-8	Benzo[a]pyrene	1510		56	28
205-99-2	Benzo[b]fluoranthene	2020		66	33
191-24-2	Benzo[g,h,i]perylene	1250		110	24
207-08-9	Benzo[k]fluoranthene	1350		43	19
218-01-9	Chrysene	1560		49	24
53-70-3	Dibenz(a,h)anthracene	933		110	22
206-44-0	Fluoranthene	1940		110	22
86-73-7	Fluorene	903		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	1140		110	38
90-12-0	1-Methylnaphthalene	1160		220	24
91-57-6	2-Methylnaphthalene	1040		220	38
91-20-3	Naphthalene	955		220	24
85-01-8	Phenanthrene	1460		43	21
129-00-0	Pyrene	2030		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19017.D
Lab Smp Id: 680-87320-a-21-c ms
Inj Date : 19-FEB-2013 18:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-21-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 17 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	15.210	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	3.816	3.816	(1.000)	2205129	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1659623	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2923400	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	117750	2.74895	722.9331
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2881081	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2721533	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	154816	2.64946	696.7679
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	109088	2.87115	755.0682
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	111089	3.21480	845.4427
5 Acenaphthylene	152	4.816	4.816	(0.982)	168454	2.55130	670.9527
7 Acenaphthene	154	4.921	4.921	(1.004)	98372	2.37550	624.7201
9 Fluorene	166	5.245	5.245	(1.070)	133184	2.50546	658.8978
11 Phenanthrene	178	5.874	5.874	(1.003)	354177	4.05880	1067.4029(R)
12 Anthracene	178	5.910	5.910	(1.009)	226247	2.87773	756.8001

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.015	6.015	(1.027)	202887	2.97093	781.3084
15 Fluoranthene	202	6.715	6.715	(1.147)	458543	5.37776	1414.2683(R)
16 Pyrene	202	6.880	6.886	(0.882)	432293	5.63605	1482.1960(R)
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	353165	4.44513	1169.0031(R)
19 Chrysene	228	7.821	7.827	(1.002)	355777	4.33518	1140.0868(R)
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	373053	5.59106	1470.3645(R)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	274869	3.73937	983.3978(R)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	265984	4.18933	1101.7311(R)
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.251	(1.135)	193242	3.16886	833.3623(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	148816	2.58780	680.5532
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.176)	214682	3.46568	911.4223(R)

QC Flag Legend

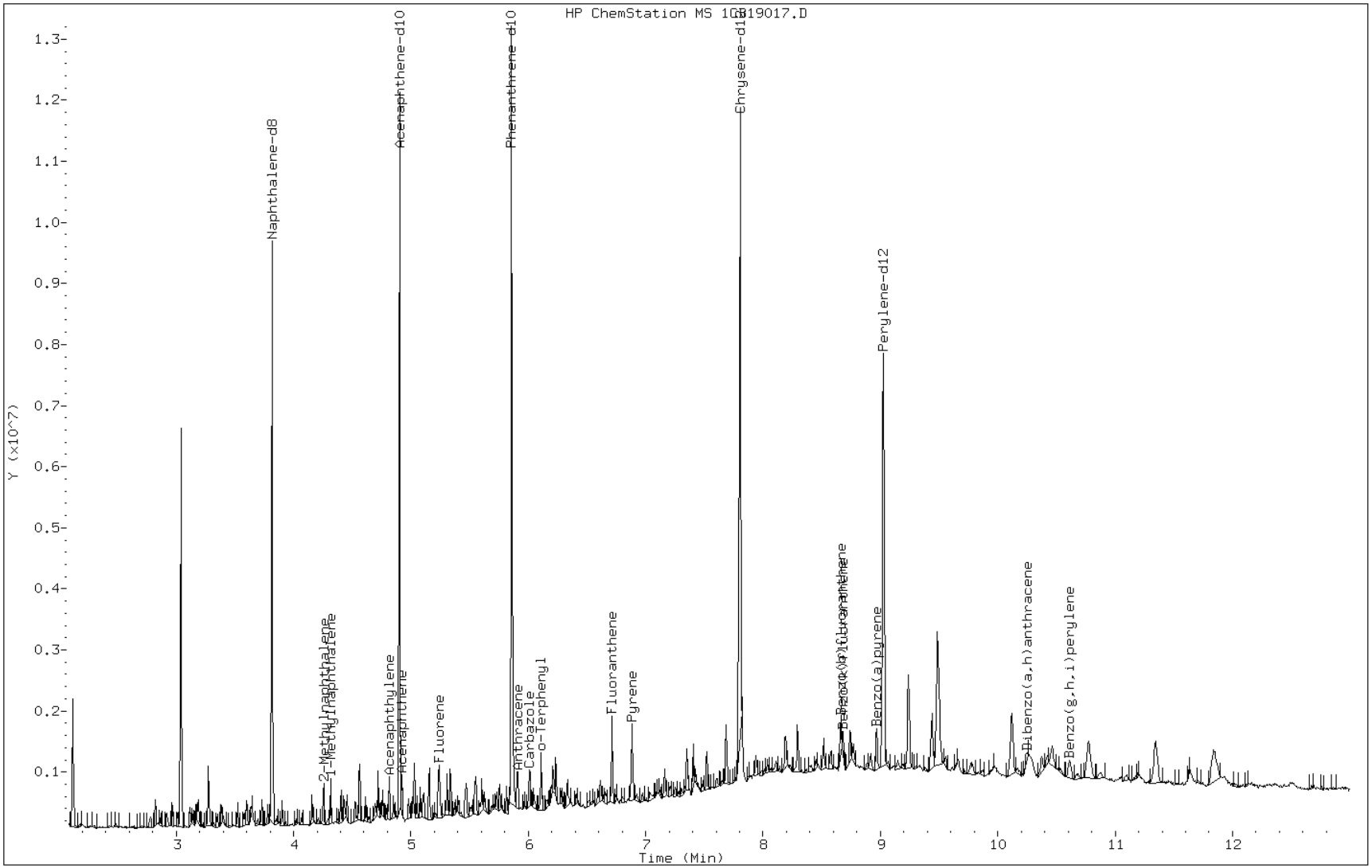
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB19017.D

Date: 19-FEB-2013 18:26

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87320-a-21-c msd Operator: SCC



Manual Integration Report

Data File: 1CB19017.D
Inj. Date and Time: 19-FEB-2013 18:26
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

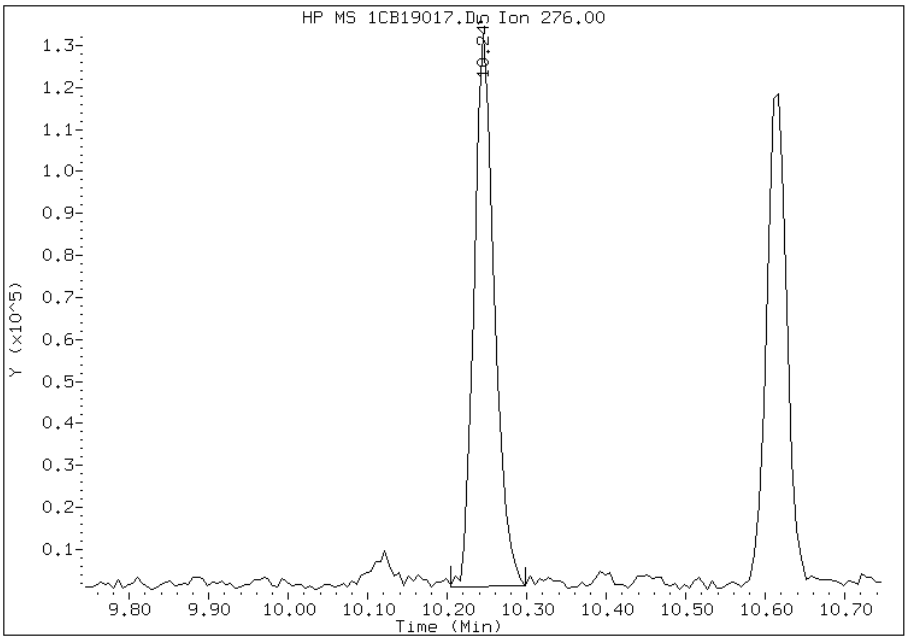
Processing Integration Results

RT: 10.25

Response: 232799

Amount: 4

Conc: 1004



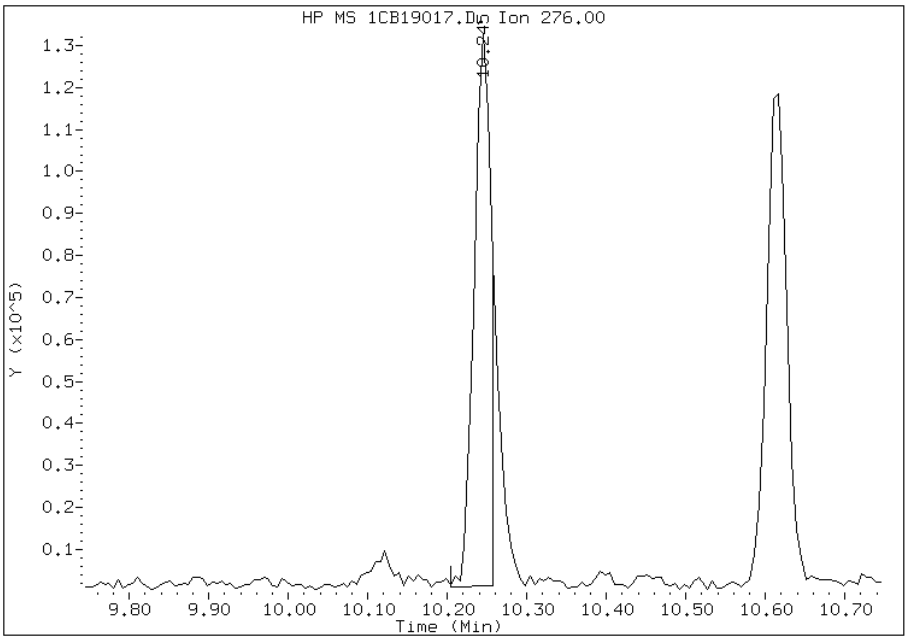
Manual Integration Results

RT: 10.25

Response: 193242

Amount: 3

Conc: 833



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:39
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: BSMC5973 Start Date: 01/07/2013 10:42

Analysis Batch Number: 133227 End Date: 01/07/2013 17:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/07/2013 10:42	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 11:03	1		DB-5MS 250(um)
DFTPP 660-133227/1		01/07/2013 11:23	1	1CA07002.D	DB-5MS 250(um)
IC 660-133227/13		01/07/2013 11:50	1		DB-5MS 250(um)
IC 660-133227/14		01/07/2013 12:11	1		DB-5MS 250(um)
IC 660-133227/15		01/07/2013 12:32	1		DB-5MS 250(um)
IC 660-133227/16		01/07/2013 12:52	1		DB-5MS 250(um)
ICIS 660-133227/17		01/07/2013 13:13	1		DB-5MS 250(um)
IC 660-133227/18		01/07/2013 13:34	1		DB-5MS 250(um)
IC 660-133227/19		01/07/2013 14:03	1		DB-5MS 250(um)
IC 660-133227/20		01/07/2013 14:24	1		DB-5MS 250(um)
ICV 660-133227/21		01/07/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 15:04	1		DB-5MS 250(um)
IC 660-133227/3		01/07/2013 15:23	1	1CA07013.D	DB-5MS 250(um)
IC 660-133227/4		01/07/2013 15:41	1	1CA07014.D	DB-5MS 250(um)
IC 660-133227/5		01/07/2013 15:59	1	1CA07015.D	DB-5MS 250(um)
IC 660-133227/6		01/07/2013 16:18	1	1CA07016.D	DB-5MS 250(um)
ICIS 660-133227/7		01/07/2013 16:36	1	1CA07017.D	DB-5MS 250(um)
IC 660-133227/8		01/07/2013 16:54	1	1CA07018.D	DB-5MS 250(um)
IC 660-133227/9		01/07/2013 17:13	1	1CA07019.D	DB-5MS 250(um)
ICV 660-133227/10		01/07/2013 17:31	1	1CA07020.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: BSMC5973 Start Date: 02/19/2013 10:11

Analysis Batch Number: 134673 End Date: 02/19/2013 21:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/19/2013 10:11	1		DB-5MS 250(um)
ZZZZZ		02/19/2013 10:31	1		DB-5MS 250(um)
DFTPP 660-134673/2		02/19/2013 10:50	1	1CB19002.D	DB-5MS 250(um)
CCVIS 660-134673/3		02/19/2013 11:06	1	1CB19003.D	DB-5MS 250(um)
ZZZZZ		02/19/2013 11:25	1		DB-5MS 250(um)
MB 660-134575/1-A		02/19/2013 14:47	1	1CB19005.D	DB-5MS 250(um)
LCS 660-134575/2-A		02/19/2013 15:05	1	1CB19006.D	DB-5MS 250(um)
ZZZZZ		02/19/2013 15:23	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 15:41	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 16:00	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 16:18	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 16:36	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 16:55	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 17:13	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 17:31	4		DB-5MS 250(um)
680-87320-21	CV0748AD-GS	02/19/2013 17:49	4	1CB19015.D	DB-5MS 250(um)
680-87320-21 MS	CV0748AD-GS MS	02/19/2013 18:07	4	1CB19016.D	DB-5MS 250(um)
680-87320-21 MSD	CV0748AD-GS MSD	02/19/2013 18:26	4	1CB19017.D	DB-5MS 250(um)
680-87320-22	CV0748AE-GS	02/19/2013 18:44	4	1CB19018.D	DB-5MS 250(um)
680-87320-23	CV0748RR-CS	02/19/2013 19:02	4	1CB19019.D	DB-5MS 250(um)
680-87320-24	CV0748SS-CS	02/19/2013 19:21	4	1CB19020.D	DB-5MS 250(um)
680-87320-25	CV0748TT-CS	02/19/2013 19:39	4	1CB19021.D	DB-5MS 250(um)
680-87320-26	CV0748UU-CS	02/19/2013 19:57	4	1CB19022.D	DB-5MS 250(um)
680-87320-27	CV0748WW-CS	02/19/2013 20:15	4	1CB19023.D	DB-5MS 250(um)
680-87320-28	CV0748XX-CS	02/19/2013 20:34	4	1CB19024.D	DB-5MS 250(um)
680-87320-29	CV0748YY-CS	02/19/2013 20:52	4	1CB19025.D	DB-5MS 250(um)
680-87320-30	CV0748ZZ-CS	02/19/2013 21:10	4	1CB19026.D	DB-5MS 250(um)
680-87320-31	CV0748BBB-CS	02/19/2013 21:28	4	1CB19027.D	DB-5MS 250(um)
680-87320-32	CV0748DDD-CS	02/19/2013 21:47	4	1CB19028.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

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)
680-87320-33	CV0748GGG-CS	02/20/2013 15:34	1	1CB20007.D	DB-5MS 250(um)
680-87320-34	CV0748HHH-CS	02/20/2013 15:52	4	1CB20008.D	DB-5MS 250(um)
680-87320-35	CV0797A-CS	02/20/2013 16:10	4	1CB20009.D	DB-5MS 250(um)
680-87320-36	CV0798A-CS	02/20/2013 16:28	4	1CB20010.D	DB-5MS 250(um)
680-87320-37	CV0962D-CS	02/20/2013 16:46	4	1CB20011.D	DB-5MS 250(um)
ZZZZZ		02/20/2013 17:05	4		DB-5MS 250(um)
ZZZZZ		02/20/2013 17:23	4		DB-5MS 250(um)
680-87447-A-2-B MS		02/20/2013 17:41	4	1CB20014.D	DB-5MS 250(um)
680-87447-A-2-C MSD		02/20/2013 17:59	4	1CB20015.D	DB-5MS 250(um)
ZZZZZ		02/20/2013 18:18	4		DB-5MS 250(um)
ZZZZZ		02/20/2013 18:36	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 18:54	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 19:12	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 19:31	4		DB-5MS 250(um)
ZZZZZ		02/20/2013 19:49	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 20:07	4		DB-5MS 250(um)
ZZZZZ		02/20/2013 20:25	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 20:44	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 21:02	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 21:20	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 21:39	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 21:57	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 22:15	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 22:33	1		DB-5MS 250(um)
ZZZZZ		02/20/2013 22:52	4		DB-5MS 250(um)
ZZZZZ		02/20/2013 23:10	4		DB-5MS 250(um)
ZZZZZ		02/20/2013 23:28	4		DB-5MS 250(um)
ZZZZZ		02/20/2013 23:46	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 00:05	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 00:23	1		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)
ZZZZZ		02/21/2013 01:36	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 01:55	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Batch Number: 134575 Batch Start Date: 02/18/13 11:03 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/19/13 10:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00175		
MB 660-134575/1		3546, 8270C LL		15.17 g	1 mL		1 mL		
LCS 660-134575/2		3546, 8270C LL		15.36 g	1 mL	1 mL	1 mL		
680-87320-A-21	CV0748AD-GS	3546, 8270C LL	T	15.21 g	1 mL		1 mL		
680-87320-A-21 MS	CV0748AD-GS	3546, 8270C LL	T	15.21 g	1 mL	1 mL	1 mL		
680-87320-A-21 MSD	CV0748AD-GS	3546, 8270C LL	T	15.21 g	1 mL	1 mL	1 mL		
680-87320-A-22	CV0748AE-GS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-87320-A-23	CV0748RR-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL		
680-87320-A-24	CV0748SS-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-87320-A-25	CV0748TT-CS	3546, 8270C LL	T	15.14 g	1 mL		1 mL		
680-87320-A-26	CV0748UU-CS	3546, 8270C LL	T	15.16 g	1 mL		1 mL		
680-87320-A-27	CV0748WW-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-87320-A-28	CV0748XX-CS	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-87320-A-29	CV0748YY-CS	3546, 8270C LL	T	15.41 g	1 mL		1 mL		
680-87320-A-30	CV0748ZZ-CS	3546, 8270C LL	T	15.27 g	1 mL		1 mL		
680-87320-A-31	CV0748BBB-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-87320-A-32	CV0748DDD-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Batch Number: 134575 Batch Start Date: 02/18/13 11:03 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/19/13 10:25

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 _18
Microwave Start Time	14.00/2/18/13
Microwave Stop Time	14.35/2/18/13
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 _175
Water Bath ID	TURBOVAP2#1/2/3
Water Bath Temperature	40 C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

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		
680-87320-A-33	CV0748GGG-CS	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-87320-A-34	CV0748HHH-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL		
680-87320-A-35	CV0797A-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-87320-A-36	CV0798A-CS	3546, 8270C LL	T	15.44 g	1 mL		1 mL		
680-87320-A-37	CV0962D-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-87447-A-2 MS		3546, 8270C LL	T	15.14 g	1 mL	1 mL	1 mL		
680-87447-A-2 MSD		3546, 8270C LL	T	15.14 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.: 680-87320-2

SDG No.: 68087320-2

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87320-2

SDG No.: 68087320-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0748AD-GS	680-87320-21
CV0748AE-GS	680-87320-22
CV0748RR-CS	680-87320-23
CV0748SS-CS	680-87320-24
CV0748TT-CS	680-87320-25
CV0748UU-CS	680-87320-26
CV0748WW-CS	680-87320-27
CV0748XX-CS	680-87320-28
CV0748YY-CS	680-87320-29
CV0748ZZ-CS	680-87320-30
CV0748BBB-CS	680-87320-31
CV0748DDD-CS	680-87320-32
CV0748GGG-CS	680-87320-33
CV0748HHH-CS	680-87320-34
CV0797A-CS	680-87320-35
CV0798A-CS	680-87320-36
CV0962D-CS	680-87320-37

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87320-2

SDG Number: 68087320-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87320-2

SDG Number: 68087320-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87320-2

SDG Number: 68087320-2

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87320-2

SDG Number: 68087320-2

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: Moisture Method: Moisture

Start Date: 02/13/2013 10:20 End Date: 02/13/2013 14:12

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134441/17	1	T	10:20	X																			
LCS 660-134441/1	1	T	10:22	X																			
ZZZZZZ			10:40																				
ZZZZZZ			10:41																				
ZZZZZZ			11:29																				
ZZZZZZ			11:37																				
ZZZZZZ			12:02																				
ZZZZZZ			12:08																				
680-87320-21	1	T	12:34	X																			
680-87320-21 MS	1	T	12:40	X																			
680-87320-21 MSD	1	T	12:56	X																			
680-87320-22	1	T	13:09	X																			
680-87320-23	1	T	13:25	X																			
680-87320-24	1	T	13:34	X																			
680-87320-25	1	T	13:47	X																			
680-87320-26	1	T	14:11	X																			
680-87320-27	1	T	14:12	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: Moisture Method: Moisture

Start Date: 02/14/2013 06:36 End Date: 02/14/2013 11:57

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134478/22	1	T	06:36	X																			
LCS 660-134478/1	1	T	06:37	X																			
ZZZZZZ			07:18																				
ZZZZZZ			07:30																				
ZZZZZZ			08:11																				
ZZZZZZ			08:18																				
ZZZZZZ			08:49																				
ZZZZZZ			09:10																				
ZZZZZZ			09:12																				
ZZZZZZ			09:38																				
ZZZZZZ			09:49																				
ZZZZZZ			10:06																				
ZZZZZZ			10:11																				
ZZZZZZ			10:31																				
ZZZZZZ			10:38																				
680-87318-A-41 MS	1	T	10:58	X																			
680-87318-A-41 MSD	1	T	11:01	X																			
680-87320-34	1	T	11:32	X																			
ZZZZZZ			11:34																				
ZZZZZZ			11:49																				
ZZZZZZ			11:51																				
ZZZZZZ			11:57																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/13/2013 13:55 End Date: 02/13/2013 13:55

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCS 660-134437/1	1	T	13:55	X																			
680-87320-29	1	T	13:55	X																			
680-87320-30	1	T	13:55	X																			
680-87320-31	1	T	13:55	X																			
680-87320-32	1	T	13:55	X																			
680-87320-33	1	T	13:55	X																			
680-87320-35	1	T	13:55	X																			
680-87320-36	1	T	13:55	X																			
680-87320-37	1	T	13:55	X																			
680-87320-28	1	T	13:55	X																			
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
680-87318-A-4 MS	1	T	13:55	X																			
680-87318-A-4 MSD	1	T	13:55	X																			
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Batch Number: 134437 Batch Start Date: 02/13/13 13:55 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
LCS 660-134437/1		Moisture		1	0 g	9.18 g	9.20 g		
680-87320-A-29	CV0748YY-CS	Moisture	T	2	0 g	4.47 g	4.02 g		
680-87320-A-30	CV0748ZZ-CS	Moisture	T	3	0 g	4.85 g	4.65 g		
680-87320-A-31	CV0748BBB-CS	Moisture	T	4	0 g	4.54 g	4.23 g		
680-87320-A-32	CV0748DDD-CS	Moisture	T	5	0 g	4.17 g	4.05 g		
680-87320-A-33	CV0748GGG-CS	Moisture	T	6	0 g	4.83 g	4.61 g		
680-87320-A-35	CV0797A-CS	Moisture	T	7	0 g	4.72 g	4.65 g		
680-87320-A-36	CV0798A-CS	Moisture	T	8	0 g	4.81 g	4.67 g		
680-87320-A-37	CV0962D-CS	Moisture	T	9	0 g	4.49 g	4.03 g		
680-87320-A-28	CV0748XX-CS	Moisture	T	10	0 g	4.20 g	3.99 g		
680-87318-A-4 MS		Moisture	T		0 g	4.62 g	4.25 g		
680-87318-A-4 MSD		Moisture	T		0 g	4.62 g	4.25 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.13.13

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.: 680-87320-2

SDG No.: 68087320-2

Batch Number: 134441 Batch Start Date: 02/13/13 10:20 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134441/1		Moisture		0 g	10.044 g	9.031 g			
680-87320-A-21	CV0748AD-GS	Moisture	T	0 g	4.49 g	3.275 g			
680-87320-A-21 MSD	CV0748AD-GS	Moisture	T	0 g	4.304 g	3.099 g			
680-87320-A-23	CV0748RR-CS	Moisture	T	0 g	4.986 g	3.639 g			
680-87320-A-25	CV0748TT-CS	Moisture	T	0 g	4.078 g	2.817 g			
680-87320-A-27	CV0748WW-CS	Moisture	T	0 g	4.258 g	3.3 g			
680-87320-A-26	CV0748UU-CS	Moisture	T	0 g	4.474 g	3.398 g			
680-87320-A-24	CV0748SS-CS	Moisture	T	0 g	4.491 g	3.422 g			
680-87320-A-22	CV0748AE-GS	Moisture	T	0 g	4.455 g	3.182 g			
680-87320-A-21 MS	CV0748AD-GS	Moisture	T	0 g	4.813 g	3.45 g			
LCSD 660-134441/17		Moisture		0 g	10.033 g	9.02 g			

Batch Notes	
Oven ID	hb43-1, hb43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87320-2

SDG No.: 68087320-2

Batch Number: 134478 Batch Start Date: 02/14/13 06:36 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134478/1		Moisture		0 g	10.057 g	9.023 g			
680-87318-A-41 MSD		Moisture	T	0 g	4.105 g	2.811 g			
680-87320-A-34	CV0748HHH-CS	Moisture	T	0 g	4.996 g	3.996 g			
680-87318-A-41 MS		Moisture	T	0 g	4.26 g	2.972 g			
LCSD 660-134478/22		Moisture		0 g	10.048 g	9.029 g			

Batch Notes	
Oven ID	HB43-1,HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 59518

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148 1356	PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER: Lisa Haney	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 6283555550	CLIENT FAX:
CLIENT NAME: Ore	CLIENT E-MAIL: Lhebs@ore.com	
CLIENT ADDRESS:		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 4 OF 6

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: UPAH, ACRA8

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION		COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	UPAH	ACRA8								REMARKS
2/6/13	1112	CU0748 QQ-CS	X	C		✓			X									
	1014	CU0748 AC-GS	X	G		✓			X									
	0918	CU0748 AB-GS	X	G		✓			X									
	1306	CU0748 AD-GS	X	G		✓			X									
	1530	CU0748 AE-GS	X	G		✓			X									
	1303	CU0748 RR-CS	X	C		✓			X									
	1326	CU0748 SS-CS	X	C		✓			X									
	1324	CU0748 TT-CS	X	C		✓			X									
	1349	CU0748 UU-CS	X	C		✓			X									
	1354	CU0748 VV-CS	✓	C		✓			X									
	1357	CU0748 WW-CS	✓ X	C		✓			X	X	Nebs = ✓			PNA =	X			
	1407	CU0748 XX-CS	X	C		✓			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/7/13	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

2/9/13 0934

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO:	LABORATORY REMARKS
[signature]	02/09/13	0976	YES ○ NO ○		~~87279~~ 87320	~~4.0~~ 5.0 (MH)

TAL8240-680 (1008)

Serial Number 59519

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Avenue Removal	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER: Lisa Haney	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 678 355 5550	CLIENT FAX:
CLIENT NAME: ONE	CLIENT E-MAIL: LKrebs@one.com	
CLIENT ADDRESS:		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 5 OF 6

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LL99N, RCRA 8

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL99N	RCRA 8									REMARKS
2/6/13	1424	CU0748YY-CS	C		✓			X										
	1428	CU0748ZZ-CS	C		✓			X										
	1445	CU0748AAA-CS	C		✓			X										
	1447	CU0748BBB-CS	C		✓			X										
	1508	CU0748CCC-CS	C		✓			X	X									
	1519	CU0748DDD-CS	C		✓			X										
	1517	CU0748EEE-CS	C		✓			X										
	1521	CU0748FFF-CS	C		✓			X										
	1542	CU0748GGG-CS	C		✓			X										
	1545	CU0748HHH-CS	C		✓			X										
	1638	CU0748KKK-CS	C		✓			X										
	1546	CU0748III-CS	C		✓			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
L Krebs	2/7/13	1800						
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
	2/9/13 0934		YES ◯ NO ◯		~~87279~~ 87320	~~4.0~~ 5.0 (mH)

TAL8240-680 (1008)

Serial Number 59520

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Avenue Removal	2005148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Haney		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
A. Henderson	6783555550	

CLIENT NAME	CLIENT E-MAIL
OTIE	khrebs@otie.com

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 6 OF 6

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LUPAH, RCRA 8

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LUPAH	RCRA 8									REMARKS
1/16/13	1627	CU0748JJJ-CS	C		✓			X										
	1420	CU0797A-CS	C		✓			X										
	1400	CU0798A-CS	C		✓			X	X									
	1355	CU0962D-CS	C		✓			X										
	1537	CU0748AF-CS	C		✓			X										
	1043	FM0138B-CS (sieve)	C		✓				X									
	1134	FM0139A-CS (sieve)	C		✓				X									
	0939	CU0748dd-CS (sieve)	C		✓				X									
	1357	CU0748WW-CS (sieve)	C		✓				X									
	1508	CU0748CCC-CS (sieve)	C		✓				X									
	1420	CU0798A-CS (sieve)	C		✓				X									

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/7/13	1800						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	2/9/13	@0934						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/09/13	0916	YES ○ NO ○		680 ~~87279~~ 87320	~~4.0~~ 5.0 (MLA)

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-2
SDG Number: 68087320-2

Login Number: 87320
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	Second cooler - missing from Friday receipt.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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: 680-87320-2
SDG Number: 68087320-2

Login Number: 87320
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 02/12/13 09:53 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-2
SDG Number: 68087320-2

Login Number: 87320
List Number: 2
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 02/12/13 09:54 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	