TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-87318-1

SDG Number: 68087318-1

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
2/20/2013 2:51 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
02/20/2013

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 26

GC/MS Semi VOA 26

Method 8270C Low Level 26

Method 8270C Low Level QC Summary 27

Method 8270C Low Level Sample Data 51

Standards Data 533

Method 8270C Low Level ICAL Data 533

Method 8270C Low Level CCAL Data 596

Raw QC Data 619

Method 8270C Low Level Tune Data 619

Method 8270C Low Level Blank Data 644

Method 8270C Low Level LCS/LCSD Data 650

Method 8270C Low Level MS/MSD Data 660

Method 8270C Low Level Run Logs 680

Method 8270C Low Level Prep Data 687

Inorganic Sample Data 691

General Chemistry Data 691

Table of Contents

Gen Chem Cover Page 692
Gen Chem MDL 693
Gen Chem Analysis Run Log 697
Gen Chem Prep Data 701
Shipping and Receiving Documents 705
Client Chain of Custody 706
Sample Receipt Checklist 708

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87318-1

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

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

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

RECEIPT

The samples were received on 02/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.2º C and 2.8º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0005A-CS (680-87318-1), CV0005B-CS (680-87318-2), CV0005B-CSD (680-87318-3), CV0005C-CS (680-87318-4), CV0005AB-GS (680-87318-5), CV0005D-CS (680-87318-6), CV0005E-CS (680-87318-7), CV0005E-CSD (680-87318-8), CV0005F-CS (680-87318-9), CV0005G-CS (680-87318-10), CV0005G-CSD (680-87318-11), CV0005H-CS (680-87318-12), CV0005I-CS (680-87318-13), CV0005J-CS (680-87318-14), CV0005J-CSD (680-87318-15), CV0005K-CS (680-87318-16), CV0005L-CS (680-87318-17), CV0005M-CS (680-87318-18), CV0005M-CSD (680-87318-19) and CV0005N-CS (680-87318-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/14/2013 and analyzed on 02/15/2013 and 02/18/2013.

Samples CV0005AB-GS (680-87318-5)[4X] and CV0005F-CS (680-87318-9)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-1
Sdg Number: 68087318-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87318-1	CV0005A-CS	Solid	02/07/2013 1002	02/09/2013 1033
680-87318-2	CV0005B-CS	Solid	02/07/2013 1017	02/09/2013 1033
680-87318-3	CV0005B-CSD	Solid	02/07/2013 1019	02/09/2013 1033
680-87318-4	CV0005C-CS	Solid	02/07/2013 1023	02/09/2013 1033
680-87318-4MS	CV0005C-CS	Solid	02/07/2013 1023	02/09/2013 1033
680-87318-4MSD	CV0005C-CS	Solid	02/07/2013 1023	02/09/2013 1033
680-87318-5	CV0005AB-GS	Solid	02/07/2013 1033	02/09/2013 1033
680-87318-6	CV0005D-CS	Solid	02/07/2013 1044	02/09/2013 1033
680-87318-7	CV0005E-CS	Solid	02/07/2013 1053	02/09/2013 1033
680-87318-8	CV0005E-CSD	Solid	02/07/2013 1057	02/09/2013 1033
680-87318-9	CV0005F-CS	Solid	02/07/2013 1101	02/09/2013 1033
680-87318-10	CV0005G-CS	Solid	02/07/2013 1125	02/09/2013 1033
680-87318-11	CV0005G-CSD	Solid	02/07/2013 1128	02/09/2013 1033
680-87318-12	CV0005H-CS	Solid	02/07/2013 1130	02/09/2013 1033
680-87318-13	CV0005I-CS	Solid	02/07/2013 1153	02/09/2013 1033
680-87318-14	CV0005J-CS	Solid	02/07/2013 1150	02/09/2013 1033
680-87318-15	CV0005J-CSD	Solid	02/07/2013 1152	02/09/2013 1033
680-87318-16	CV0005K-CS	Solid	02/07/2013 1155	02/09/2013 1033
680-87318-17	CV0005L-CS	Solid	02/07/2013 1154	02/09/2013 1033
680-87318-18	CV0005M-CS	Solid	02/07/2013 1156	02/09/2013 1033
680-87318-19	CV0005M-CSD	Solid	02/07/2013 1158	02/09/2013 1033
680-87318-20	CV0005N-CS	Solid	02/07/2013 1203	02/09/2013 1033

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-1
Sdg Number: 68087318-1

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-1
Sdg Number: 68087318-1

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: 680-87318-1
Sdg Number: 68087318-1

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-1
Sdg Number: 68087318-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134455					
LCS 660-134455/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134455/1-A	Method Blank	T	Solid	3546	
680-87318-1	CV0005A-CS	T	Solid	3546	
680-87318-2	CV0005B-CS	T	Solid	3546	
680-87318-3	CV0005B-CSD	T	Solid	3546	
680-87318-4	CV0005C-CS	T	Solid	3546	
680-87318-4MS	Matrix Spike	T	Solid	3546	
680-87318-4MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87318-5	CV0005AB-GS	T	Solid	3546	
Prep Batch: 660-134472					
LCS 660-134472/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134472/1-A	Method Blank	T	Solid	3546	
680-87279-A-21-B MS	Matrix Spike	T	Solid	3546	
680-87279-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87318-6	CV0005D-CS	T	Solid	3546	
680-87318-7	CV0005E-CS	T	Solid	3546	
680-87318-8	CV0005E-CSD	T	Solid	3546	
680-87318-9	CV0005F-CS	T	Solid	3546	
680-87318-10	CV0005G-CS	T	Solid	3546	
680-87318-11	CV0005G-CSD	T	Solid	3546	
680-87318-12	CV0005H-CS	T	Solid	3546	
680-87318-13	CV0005I-CS	T	Solid	3546	
680-87318-14	CV0005J-CS	T	Solid	3546	
680-87318-15	CV0005J-CSD	T	Solid	3546	
680-87318-16	CV0005K-CS	T	Solid	3546	
680-87318-17	CV0005L-CS	T	Solid	3546	
680-87318-18	CV0005M-CS	T	Solid	3546	
680-87318-19	CV0005M-CSD	T	Solid	3546	
680-87318-20	CV0005N-CS	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-1
Sdg Number: 68087318-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-134530					
LCS 660-134472/2-A	Lab Control Sample	T	Solid	8270C LL	660-134472
MB 660-134472/1-A	Method Blank	T	Solid	8270C LL	660-134472
680-87279-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-134472
680-87279-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134472
680-87318-6	CV0005D-CS	T	Solid	8270C LL	660-134472
680-87318-7	CV0005E-CS	T	Solid	8270C LL	660-134472
680-87318-8	CV0005E-CSD	T	Solid	8270C LL	660-134472
680-87318-9	CV0005F-CS	T	Solid	8270C LL	660-134472
680-87318-10	CV0005G-CS	T	Solid	8270C LL	660-134472
680-87318-11	CV0005G-CSD	T	Solid	8270C LL	660-134472
680-87318-12	CV0005H-CS	T	Solid	8270C LL	660-134472
680-87318-13	CV0005I-CS	T	Solid	8270C LL	660-134472
680-87318-14	CV0005J-CS	T	Solid	8270C LL	660-134472
680-87318-15	CV0005J-CSD	T	Solid	8270C LL	660-134472
680-87318-16	CV0005K-CS	T	Solid	8270C LL	660-134472
680-87318-17	CV0005L-CS	T	Solid	8270C LL	660-134472
680-87318-18	CV0005M-CS	T	Solid	8270C LL	660-134472
680-87318-19	CV0005M-CSD	T	Solid	8270C LL	660-134472
680-87318-20	CV0005N-CS	T	Solid	8270C LL	660-134472
Analysis Batch:660-134532					
LCS 660-134455/2-A	Lab Control Sample	T	Solid	8270C LL	660-134455
MB 660-134455/1-A	Method Blank	T	Solid	8270C LL	660-134455
680-87318-1	CV0005A-CS	T	Solid	8270C LL	660-134455
680-87318-2	CV0005B-CS	T	Solid	8270C LL	660-134455
680-87318-3	CV0005B-CSD	T	Solid	8270C LL	660-134455
680-87318-4MS	Matrix Spike	T	Solid	8270C LL	660-134455
680-87318-4MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134455
Analysis Batch:660-134598					
680-87318-4	CV0005C-CS	T	Solid	8270C LL	660-134455
680-87318-5	CV0005AB-GS	T	Solid	8270C LL	660-134455

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-1
Sdg Number: 68087318-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134382					
LCS 660-134382/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134382/21	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87318-2	CV0005B-CS	T	Solid	Moisture	
680-87318-8	CV0005E-CSD	T	Solid	Moisture	
680-87318-11	CV0005G-CSD	T	Solid	Moisture	
680-87318-20	CV0005N-CS	T	Solid	Moisture	
Analysis Batch:660-134398					
LCS 660-134398/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134398/11	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87318-3	CV0005B-CSD	T	Solid	Moisture	
Analysis Batch:660-134437					
LCS 660-134437/1	Lab Control Sample	T	Solid	Moisture	
680-87318-1	CV0005A-CS	T	Solid	Moisture	
680-87318-4	CV0005C-CS	T	Solid	Moisture	
680-87318-4MS	Matrix Spike	T	Solid	Moisture	
680-87318-4MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-87318-5	CV0005AB-GS	T	Solid	Moisture	
680-87318-6	CV0005D-CS	T	Solid	Moisture	
680-87318-7	CV0005E-CS	T	Solid	Moisture	
680-87318-9	CV0005F-CS	T	Solid	Moisture	
680-87318-10	CV0005G-CS	T	Solid	Moisture	
680-87318-12	CV0005H-CS	T	Solid	Moisture	
680-87318-13	CV0005I-CS	T	Solid	Moisture	
Analysis Batch:660-134442					
LCS 660-134442/1	Lab Control Sample	T	Solid	Moisture	
680-87318-14	CV0005J-CS	T	Solid	Moisture	
680-87318-15	CV0005J-CSD	T	Solid	Moisture	
680-87318-16	CV0005K-CS	T	Solid	Moisture	
680-87318-17	CV0005L-CS	T	Solid	Moisture	
680-87318-18	CV0005M-CS	T	Solid	Moisture	
680-87318-19	CV0005M-CSD	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMA5973 Analysis Batch Number: 133924

Lab Sample ID: ICIS 660-133924/3 Client Sample ID:

Date Analyzed: 01/30/13 11:38 Lab File ID: 1AA30003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	01/30/13 12:17

Lab Sample ID: IC 660-133924/4 Client Sample ID:

Date Analyzed: 01/30/13 12:04 Lab File ID: 1AA30004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	4.51	Baseline Event	cantins	01/30/13 13:28
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	01/30/13 13:28

Lab Sample ID: IC 660-133924/5 Client Sample ID:

Date Analyzed: 01/30/13 12:19 Lab File ID: 1AA30005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	01/30/13 13:29

Lab Sample ID: IC 660-133924/6 Client Sample ID:

Date Analyzed: 01/30/13 12:34 Lab File ID: 1AA30006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	01/30/13 13:29

Lab Sample ID: IC 660-133924/7 Client Sample ID:

Date Analyzed: 01/30/13 12:49 Lab File ID: 1AA30007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	01/30/13 13:30

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMA5973 Analysis Batch Number: 133924

Lab Sample ID: IC 660-133924/8 Client Sample ID:

Date Analyzed: 01/30/13 13:04 Lab File ID: 1AA30008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	01/30/13 13:30

Lab Sample ID: IC 660-133924/9 Client Sample ID:

Date Analyzed: 01/30/13 13:20 Lab File ID: 1AA30009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	01/30/13 13:32

Lab Sample ID: ICV 660-133924/10 Client Sample ID:

Date Analyzed: 01/30/13 13:35 Lab File ID: 1AA30010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.70	Baseline Event	cantins	01/30/13 13:47
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	01/30/13 13:47

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMA5973 Analysis Batch Number: 134532

Lab Sample ID: CCVIS 660-134532/8 Client Sample ID:

Date Analyzed: 02/15/13 15:21 Lab File ID: 1AB15006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.24	Split Peak	cantins	02/15/13 15:35

Lab Sample ID: LCS 660-134455/2-A Client Sample ID:

Date Analyzed: 02/15/13 16:07 Lab File ID: 1AB15009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.23	Split Peak	cantins	02/18/13 11:09

Lab Sample ID: 680-87318-1 Client Sample ID: CV0005A-CS

Date Analyzed: 02/15/13 20:09 Lab File ID: 1AB15025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.23	Split Peak	cantins	02/18/13 11:29
Benzo[k]fluoranthene	7.24	Baseline Event	cantins	02/18/13 11:29
Indeno[1,2,3-cd]pyrene	8.25	Split Peak	cantins	02/18/13 11:29

Lab Sample ID: 680-87318-2 Client Sample ID: CV0005B-CS

Date Analyzed: 02/15/13 20:24 Lab File ID: 1AB15026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.23	Split Peak	cantins	02/18/13 11:30
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/18/13 11:30
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/18/13 11:31

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMA5973 Analysis Batch Number: 134532

Lab Sample ID: 680-87318-3 Client Sample ID: CV0005B-CSD

Date Analyzed: 02/15/13 20:39 Lab File ID: 1AB15027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.23	Split Peak	cantins	02/18/13 11:31
Benzo[k]fluoranthene	7.24	Baseline Event	cantins	02/18/13 11:32
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/18/13 11:32

Lab Sample ID: 680-87318-4 MS Client Sample ID: CV0005C-CS MS

Date Analyzed: 02/15/13 21:09 Lab File ID: 1AB15029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/18/13 11:34

Lab Sample ID: 680-87318-4 MSD Client Sample ID: CV0005C-CS MSD

Date Analyzed: 02/15/13 21:24 Lab File ID: 1AB15030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/18/13 11:35

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Analysis Batch Number: 133227

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Analysis Batch Number: 133227

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

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

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

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Analysis Batch Number: 133227

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Analysis Batch Number: 134530

Lab Sample ID: CCVIS 660-134530/4 Client Sample ID:

Date Analyzed: 02/15/13 11:56 Lab File ID: 1CB15004.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	02/15/13 12:21

Lab Sample ID: LCS 660-134472/2-A Client Sample ID:

Date Analyzed: 02/15/13 13:38 Lab File ID: 1CB15009.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	02/18/13 13:18

Lab Sample ID: 680-87279-A-21-B MS Client Sample ID:

Date Analyzed: 02/15/13 14:14 Lab File ID: 1CB15011.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	02/18/13 13:20

Lab Sample ID: 680-87279-A-21-C MSD Client Sample ID:

Date Analyzed: 02/15/13 14:33 Lab File ID: 1CB15012.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	02/18/13 13:21

Lab Sample ID: 680-87318-6 Client Sample ID: CV0005D-CS

Date Analyzed: 02/15/13 14:51 Lab File ID: 1CB15013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/18/13 13:22
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/18/13 13:22
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/18/13 13:23

8270C LL

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Analysis Batch Number: 134530

Lab Sample ID: 680-87318-7 Client Sample ID: CV0005E-CS

Date Analyzed: 02/15/13 15:28 Lab File ID: 1CB15015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/18/13 13:29
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/18/13 13:29
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/18/13 13:29

Lab Sample ID: 680-87318-8 Client Sample ID: CV0005E-CSD

Date Analyzed: 02/15/13 15:46 Lab File ID: 1CB15016.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	02/18/13 13:30

Lab Sample ID: 680-87318-9 Client Sample ID: CV0005F-CS

Date Analyzed: 02/15/13 16:04 Lab File ID: 1CB15017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/18/13 13:31
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/18/13 13:31
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/18/13 15:57

Lab Sample ID: 680-87318-10 Client Sample ID: CV0005G-CS

Date Analyzed: 02/15/13 16:23 Lab File ID: 1CB15018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/18/13 16:02
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/18/13 16:03
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/18/13 16:03

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Analysis Batch Number: 134530

Lab Sample ID: 680-87318-11 Client Sample ID: CV0005G-CSD

Date Analyzed: 02/15/13 16:41 Lab File ID: 1CB15019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/18/13 16:17
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/18/13 16:17
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/18/13 16:18

Lab Sample ID: 680-87318-12 Client Sample ID: CV0005H-CS

Date Analyzed: 02/15/13 17:00 Lab File ID: 1CB15020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/18/13 16:18
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/18/13 16:18
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/18/13 16:19

Lab Sample ID: 680-87318-13 Client Sample ID: CV0005I-CS

Date Analyzed: 02/15/13 17:18 Lab File ID: 1CB15021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/18/13 16:19
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/18/13 16:19
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/18/13 16:20

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Analysis Batch Number: 134530

Lab Sample ID: 680-87318-14 Client Sample ID: CV0005J-CS

Date Analyzed: 02/15/13 17:36 Lab File ID: 1CB15022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	7.83	Baseline Event	cantins	02/19/13 09:05
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/19/13 09:05
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/19/13 09:05
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/19/13 09:07
Dibenz(a,h)anthracene	10.26	Baseline Event	cantins	02/19/13 09:06
Benzo[g,h,i]perylene	10.62	Baseline Event	cantins	02/19/13 09:06

Lab Sample ID: 680-87318-15 Client Sample ID: CV0005J-CSD

Date Analyzed: 02/15/13 17:55 Lab File ID: 1CB15023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/19/13 09:07
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/19/13 09:07
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/19/13 09:08
Dibenz(a,h)anthracene	10.27	Baseline Event	cantins	02/19/13 09:08
Benzo[g,h,i]perylene	10.63	Baseline Event	cantins	02/19/13 09:08

Lab Sample ID: 680-87318-16 Client Sample ID: CV0005K-CS

Date Analyzed: 02/15/13 18:13 Lab File ID: 1CB15024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/19/13 09:09
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/19/13 09:09
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/19/13 09:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Analysis Batch Number: 134530

Lab Sample ID: 680-87318-17 Client Sample ID: CV0005L-CS

Date Analyzed: 02/15/13 18:31 Lab File ID: 1CB15025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/19/13 09:10
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/19/13 09:10
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/19/13 09:11

Lab Sample ID: 680-87318-18 Client Sample ID: CV0005M-CS

Date Analyzed: 02/15/13 18:50 Lab File ID: 1CB15026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/19/13 09:12
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/19/13 09:12
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/19/13 09:13
Dibenz(a,h)anthracene	10.27	Baseline Event	cantins	02/19/13 09:13
Benzo[g,h,i]perylene	10.63	Baseline Event	cantins	02/19/13 09:13

Lab Sample ID: 680-87318-19 Client Sample ID: CV0005M-CSD

Date Analyzed: 02/15/13 19:08 Lab File ID: 1CB15027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/19/13 09:13
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/19/13 09:14
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/19/13 09:14

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Analysis Batch Number: 134530

Lab Sample ID: 680-87318-20 Client Sample ID: CV0005N-CS

Date Analyzed: 02/15/13 19:26 Lab File ID: 1CB15028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/19/13 09:15
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/19/13 09:15
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/19/13 09:16
Benzo[g,h,i]perylene	10.63	Baseline Event	cantins	02/19/13 09:16

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Analysis Batch Number: 134598

Lab Sample ID: CCVIS 660-134598/3 Client Sample ID:

Date Analyzed: 02/18/13 14:07 Lab File ID: 1CB18003.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	02/18/13 14:26

Lab Sample ID: 680-87318-4 Client Sample ID: CV0005C-CS

Date Analyzed: 02/18/13 15:23 Lab File ID: 1CB18007.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	02/18/13 15:47

Lab Sample ID: 680-87318-5 Client Sample ID: CV0005AB-GS

Date Analyzed: 02/18/13 17:49 Lab File ID: 1CB18015.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	02/19/13 10:01
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/19/13 10:01
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/19/13 10:01

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.: 680-87318-1

SDG No.: 68087318-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0005A-CS	680-87318-1	86
CV0005B-CS	680-87318-2	68
CV0005B-CSD	680-87318-3	73
CV0005C-CS	680-87318-4	69
CV0005AB-GS	680-87318-5	89
CV0005D-CS	680-87318-6	64
CV0005E-CS	680-87318-7	61
CV0005E-CSD	680-87318-8	65
CV0005F-CS	680-87318-9	76
CV0005G-CS	680-87318-10	64
CV0005G-CSD	680-87318-11	72
CV0005H-CS	680-87318-12	61
CV0005I-CS	680-87318-13	67
CV0005J-CS	680-87318-14	73
CV0005J-CSD	680-87318-15	61
CV0005K-CS	680-87318-16	66
CV0005L-CS	680-87318-17	34
CV0005M-CS	680-87318-18	70
CV0005M-CSD	680-87318-19	60
CV0005N-CS	680-87318-20	71
	MB 660-134455/1-A	89
	MB 660-134472/1-A	74
	LCS 660-134455/2-A	75
	LCS 660-134472/2-A	75
	680-87279-A-21-B MS	71
CV0005C-CS MS	680-87318-4 MS	80
	680-87279-A-21-C MSD	72
CV0005C-CS MSD	680-87318-4 MSD	70

	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.: 680-87318-1

SDG No.: 68087318-1

Matrix: Solid Level: Low Lab File ID: 1AB15009.D

Lab ID: LCS 660-134455/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	661	415	63	39-130	
Acenaphthylene	661	416	63	38-130	
Anthracene	661	452	68	37-130	
Benzo[a]anthracene	661	532	80	40-130	
Benzo[a]pyrene	661	467	71	49-130	
Benzo[b]fluoranthene	661	483	73	37-130	
Benzo[g,h,i]perylene	661	507	77	32-130	
Benzo[k]fluoranthene	661	502	76	32-130	
Chrysene	661	487	74	41-130	
Dibenz(a,h)anthracene	661	491	74	27-130	
Fluoranthene	661	485	73	40-130	
Fluorene	661	426	64	40-130	
Indeno[1,2,3-cd]pyrene	661	552	84	30-130	
1-Methylnaphthalene	661	458	69	31-130	
2-Methylnaphthalene	661	492	75	33-130	
Naphthalene	661	446	68	36-130	
Phenanthrene	661	452	68	42-130	
Pyrene	661	440	67	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.: 680-87318-1

SDG No.: 68087318-1

Matrix: Solid Level: Low Lab File ID: 1CB15009.D

Lab ID: LCS 660-134472/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	655	485	74	39-130	
Acenaphthylene	655	498	76	38-130	
Anthracene	655	509	78	37-130	
Benzo[a]anthracene	655	507	77	40-130	
Benzo[a]pyrene	655	502	77	49-130	
Benzo[b]fluoranthene	655	521	80	37-130	
Benzo[g,h,i]perylene	655	463	71	32-130	
Benzo[k]fluoranthene	655	508	78	32-130	
Chrysene	655	462	70	41-130	
Dibenz(a,h)anthracene	655	453	69	27-130	
Fluoranthene	655	524	80	40-130	
Fluorene	655	489	75	40-130	
Indeno[1,2,3-cd]pyrene	655	420	64	30-130	
1-Methylnaphthalene	655	525	80	31-130	
2-Methylnaphthalene	655	478	73	33-130	
Naphthalene	655	481	73	36-130	
Phenanthrene	655	460	70	42-130	
Pyrene	655	538	82	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Matrix: Solid Level: Low Lab File ID: 1CB15011.D

Lab ID: 680-87279-A-21-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	711	110 U	485	68	39-130	
Acenaphthylene	711	6.7 J	502	70	38-130	
Anthracene	711	6.8 J	505	70	37-130	
Benzo[a]anthracene	711	52	556	71	40-130	
Benzo[a]pyrene	711	50	533	68	49-130	
Benzo[b]fluoranthene	711	71	619	77	37-130	
Benzo[g,h,i]perylene	711	37	489	64	32-130	
Benzo[k]fluoranthene	711	40	475	61	32-130	
Chrysene	711	65	516	63	41-130	
Dibenz(a,h)anthracene	711	13 J	462	63	27-130	
Fluoranthene	711	82	602	73	40-130	
Fluorene	711	21 U	480	68	40-130	
Indeno[1,2,3-cd]pyrene	711	27	470	62	30-130	
1-Methylnaphthalene	711	20 J	540	73	31-130	
2-Methylnaphthalene	711	22 J	503	68	33-130	
Naphthalene	711	21 J	470	63	36-130	
Phenanthrene	711	43	501	64	42-130	
Pyrene	711	77	622	77	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.: 680-87318-1

SDG No.: 68087318-1

Matrix: Solid Level: Low Lab File ID: 1AB15029.D

Lab ID: 680-87318-4 MS Client ID: CV0005C-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	724	110 U	539	74	39-130	
Acenaphthylene	724	53	562	70	38-130	
Anthracene	724	49	608	77	37-130	
Benzo[a]anthracene	724	120	747	87	40-130	
Benzo[a]pyrene	724	100	529	59	49-130	
Benzo[b]fluoranthene	724	210	668	63	37-130	
Benzo[g,h,i]perylene	724	140	594	63	32-130	
Benzo[k]fluoranthene	724	200	479	39	32-130	
Chrysene	724	130	565	60	41-130	
Dibenz(a,h)anthracene	724	54	585	73	27-130	
Fluoranthene	724	160	634	66	40-130	
Fluorene	724	22	570	76	40-130	
Indeno[1,2,3-cd]pyrene	724	130	666	74	30-130	
1-Methylnaphthalene	724	26 J	677	90	31-130	
2-Methylnaphthalene	724	50	690	88	33-130	
Naphthalene	724	52	623	79	36-130	
Phenanthrene	724	100	695	82	42-130	
Pyrene	724	160	531	51	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.: 680-87318-1

SDG No.: 68087318-1

Matrix: Solid Level: Low Lab File ID: 1CB15012.D

Lab ID: 680-87279-A-21-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	711	482	68	1	40	39-130	
Acenaphthylene	711	524	73	4	40	38-130	
Anthracene	711	516	72	2	40	37-130	
Benzo[a]anthracene	711	536	68	4	40	40-130	
Benzo[a]pyrene	711	517	66	3	40	49-130	
Benzo[b]fluoranthene	711	556	68	11	40	37-130	
Benzo[g,h,i]perylene	711	478	62	2	40	32-130	
Benzo[k]fluoranthene	711	557	73	16	40	32-130	
Chrysene	711	492	60	5	40	41-130	
Dibenz(a,h)anthracene	711	460	63	0	40	27-130	
Fluoranthene	711	587	71	3	40	40-130	
Fluorene	711	492	69	2	40	40-130	
Indeno[1,2,3-cd]pyrene	711	464	61	1	40	30-130	
1-Methylnaphthalene	711	546	74	1	40	31-130	
2-Methylnaphthalene	711	529	71	5	40	33-130	
Naphthalene	711	493	66	5	40	36-130	
Phenanthrene	711	486	62	3	40	42-130	
Pyrene	711	595	73	4	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.: 680-87318-1

SDG No.: 68087318-1

Matrix: Solid Level: Low Lab File ID: 1AB15030.D

Lab ID: 680-87318-4 MSD Client ID: CV0005C-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	724	451	62	18	40	39-130	
Acenaphthylene	724	463	57	19	40	38-130	
Anthracene	724	520	65	16	40	37-130	
Benzo[a]anthracene	724	638	72	16	40	40-130	
Benzo[a]pyrene	724	466	50	13	40	49-130	
Benzo[b]fluoranthene	724	511	42	27	40	37-130	
Benzo[g,h,i]perylene	724	511	52	15	40	32-130	
Benzo[k]fluoranthene	724	444	34	8	40	32-130	
Chrysene	724	549	58	3	40	41-130	
Dibenz(a,h)anthracene	724	500	62	16	40	27-130	
Fluoranthene	724	585	59	8	40	40-130	
Fluorene	724	483	64	16	40	40-130	
Indeno[1,2,3-cd]pyrene	724	555	59	18	40	30-130	
1-Methylnaphthalene	724	539	71	23	40	31-130	
2-Methylnaphthalene	724	562	71	20	40	33-130	
Naphthalene	724	515	64	19	40	36-130	
Phenanthrene	724	604	69	14	40	42-130	
Pyrene	724	522	50	2	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Lab File ID: 1AB15008.D Lab Sample ID: MB 660-134455/1-A

Matrix: Solid Date Extracted: 02/14/2013 08:35

Instrument ID: BSMA5973 Date Analyzed: 02/15/2013 15:52

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134455/2-A	1AB15009.D	02/15/2013 16:07
CV0005A-CS	680-87318-1	1AB15025.D	02/15/2013 20:09
CV0005B-CS	680-87318-2	1AB15026.D	02/15/2013 20:24
CV0005B-CSD	680-87318-3	1AB15027.D	02/15/2013 20:39
CV0005C-CS MS	680-87318-4 MS	1AB15029.D	02/15/2013 21:09
CV0005C-CS MSD	680-87318-4 MSD	1AB15030.D	02/15/2013 21:24
CV0005C-CS	680-87318-4	1CB18007.D	02/18/2013 15:23
CV0005AB-GS	680-87318-5	1CB18015.D	02/18/2013 17:49

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Lab File ID: 1CB15008.D Lab Sample ID: MB 660-134472/1-A

Matrix: Solid Date Extracted: 02/14/2013 11:19

Instrument ID: BSMC5973 Date Analyzed: 02/15/2013 13:20

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134472/2-A	1CB15009.D	02/15/2013 13:38
	680-87279-A-21-B MS	1CB15011.D	02/15/2013 14:14
	680-87279-A-21-C MSD	1CB15012.D	02/15/2013 14:33
CV0005D-CS	680-87318-6	1CB15013.D	02/15/2013 14:51
CV0005E-CS	680-87318-7	1CB15015.D	02/15/2013 15:28
CV0005E-CSD	680-87318-8	1CB15016.D	02/15/2013 15:46
CV0005F-CS	680-87318-9	1CB15017.D	02/15/2013 16:04
CV0005G-CS	680-87318-10	1CB15018.D	02/15/2013 16:23
CV0005G-CSD	680-87318-11	1CB15019.D	02/15/2013 16:41
CV0005H-CS	680-87318-12	1CB15020.D	02/15/2013 17:00
CV0005I-CS	680-87318-13	1CB15021.D	02/15/2013 17:18
CV0005J-CS	680-87318-14	1CB15022.D	02/15/2013 17:36
CV0005J-CSD	680-87318-15	1CB15023.D	02/15/2013 17:55
CV0005K-CS	680-87318-16	1CB15024.D	02/15/2013 18:13
CV0005L-CS	680-87318-17	1CB15025.D	02/15/2013 18:31
CV0005M-CS	680-87318-18	1CB15026.D	02/15/2013 18:50
CV0005M-CSD	680-87318-19	1CB15027.D	02/15/2013 19:08
CV0005N-CS	680-87318-20	1CB15028.D	02/15/2013 19:26

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Lab File ID: 1AA30002.D DFTPP Injection Date: 01/30/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 11:20

Analysis Batch No.: 133924

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	40.7	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	43.7	
70	Less than 2.0 % of mass 69	0.7	(1.7)1
127	10.0 - 80.0 % of mass 198	44.2	
197	Less than 2.0 % of mass 198	1.7	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.9	
275	10.0 - 60.0 % of mass 198	23.5	
365	Greater than 1.0 % of mass 198	1.9	
441	Present but less than mass 443	8.6	
442	Greater than 50.0 % of mass 198	63.7	
443	15.0 - 24.0 % of mass 442	13.6	(21.3)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
	ICIS 660-133924/3	1AA30003.D	01/30/2013	11:38
	IC 660-133924/4	1AA30004.D	01/30/2013	12:04
	IC 660-133924/5	1AA30005.D	01/30/2013	12:19
	IC 660-133924/6	1AA30006.D	01/30/2013	12:34
	IC 660-133924/7	1AA30007.D	01/30/2013	12:49
	IC 660-133924/8	1AA30008.D	01/30/2013	13:04
	IC 660-133924/9	1AA30009.D	01/30/2013	13:20
	ICV 660-133924/10	1AA30010.D	01/30/2013	13:35

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Lab File ID: 1AB15005.D DFTPP Injection Date: 02/15/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 15:08

Analysis Batch No.: 134532

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	34.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	40.4	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	38.8	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.7	
275	10.0 - 60.0 % of mass 198	27.6	
365	Greater than 1.0 % of mass 198	6.0	
441	Present but less than mass 443	13.2	
442	Greater than 50.0 % of mass 198	84.0	
443	15.0 - 24.0 % of mass 442	13.3	(15.8)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134532/8	1AB15006.D	02/15/2013	15:21
	MB 660-134455/1-A	1AB15008.D	02/15/2013	15:52
	LCS 660-134455/2-A	1AB15009.D	02/15/2013	16:07
CV0005A-CS	680-87318-1	1AB15025.D	02/15/2013	20:09
CV0005B-CS	680-87318-2	1AB15026.D	02/15/2013	20:24
CV0005B-CSD	680-87318-3	1AB15027.D	02/15/2013	20:39
CV0005C-CS MS	680-87318-4 MS	1AB15029.D	02/15/2013	21:09
CV0005C-CS MSD	680-87318-4 MSD	1AB15030.D	02/15/2013	21:24

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

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

Instrument ID: BSMC5973 DFTPP Injection Time: 11:23

Analysis Batch No.: 133227

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

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Lab File ID: 1CB15003.D DFTPP Injection Date: 02/15/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:40

Analysis Batch No.: 134530

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	32.9	
68	Less than 2.0 % of mass 69	0.5	(1.1)1
69	Mass 69 relative abundance	43.5	
70	Less than 2.0 % of mass 69	0.4	(0.8)1
127	10.0 - 80.0 % of mass 198	46.7	
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	7.4	
275	10.0 - 60.0 % of mass 198	22.9	
365	Greater than 1.0 % of mass 198	2.5	
441	Present but less than mass 443	10.9	
442	Greater than 50.0 % of mass 198	71.8	
443	15.0 - 24.0 % of mass 442	16.0	(22.2)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134530/4	1CB15004.D	02/15/2013	11:56
	MB 660-134472/1-A	1CB15008.D	02/15/2013	13:20
	LCS 660-134472/2-A	1CB15009.D	02/15/2013	13:38
	680-87279-A-21-B MS	1CB15011.D	02/15/2013	14:14
	680-87279-A-21-C MSD	1CB15012.D	02/15/2013	14:33
CV0005D-CS	680-87318-6	1CB15013.D	02/15/2013	14:51
CV0005E-CS	680-87318-7	1CB15015.D	02/15/2013	15:28
CV0005E-CSD	680-87318-8	1CB15016.D	02/15/2013	15:46
CV0005F-CS	680-87318-9	1CB15017.D	02/15/2013	16:04
CV0005G-CS	680-87318-10	1CB15018.D	02/15/2013	16:23
CV0005G-CSD	680-87318-11	1CB15019.D	02/15/2013	16:41
CV0005H-CS	680-87318-12	1CB15020.D	02/15/2013	17:00
CV0005I-CS	680-87318-13	1CB15021.D	02/15/2013	17:18
CV0005J-CS	680-87318-14	1CB15022.D	02/15/2013	17:36
CV0005J-CSD	680-87318-15	1CB15023.D	02/15/2013	17:55
CV0005K-CS	680-87318-16	1CB15024.D	02/15/2013	18:13
CV0005L-CS	680-87318-17	1CB15025.D	02/15/2013	18:31
CV0005M-CS	680-87318-18	1CB15026.D	02/15/2013	18:50
CV0005M-CSD	680-87318-19	1CB15027.D	02/15/2013	19:08
CV0005N-CS	680-87318-20	1CB15028.D	02/15/2013	19:26

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Lab File ID: 1CB18002.D DFTPP Injection Date: 02/18/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 13:50

Analysis Batch No.: 134598

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	35.2	
68	Less than 2.0 % of mass 69	0.7	(1.6)1
69	Mass 69 relative abundance	45.8	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	46.1	
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	6.5	
275	10.0 - 60.0 % of mass 198	22.1	
365	Greater than 1.0 % of mass 198	3.3	
441	Present but less than mass 443	10.8	
442	Greater than 50.0 % of mass 198	73.1	
443	15.0 - 24.0 % of mass 442	13.6	(18.5)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 660-134598/3	1CB18003.D	02/18/2013	14:07
CV0005C-CS	680-87318-4	1CB18007.D	02/18/2013	15:23
CV0005AB-GS	680-87318-5	1CB18015.D	02/18/2013	17:49

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Sample No.: ICIS 660-133924/3 Date Analyzed: 01/30/2013 11:38

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

Lab File ID (Standard): 1AA30003.D Heated Purge: (Y/N) N

Calibration ID: 2712

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1356829	2.51	769245	3.54	1169097	4.50
UPPER LIMIT		2713658	3.01	1538490	4.04	2338194	5.00
LOWER LIMIT		678415	2.01	384623	3.04	584549	4.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133924/10		1317903	2.51	820848	3.54	1272419	4.50

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.: 680-87318-1

SDG No.: 68087318-1

Sample No.: ICIS 660-133924/3 Date Analyzed: 01/30/2013 11:38

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

Lab File ID (Standard): 1AA30003.D Heated Purge: (Y/N) N

Calibration ID: 2712

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		942927	6.54	892108	7.64		
UPPER LIMIT		1885854	7.04	1784216	8.14		
LOWER LIMIT		471464	6.04	446054	7.14		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133924/10		1032149	6.54	982321	7.64		

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.: 680-87318-1

SDG No.: 68087318-1

Sample No.: CCVIS 660-134532/8 Date Analyzed: 02/15/2013 15:21

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

Lab File ID (Standard): 1AB15006.D Heated Purge: (Y/N) N

Calibration ID: 2712

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1368017	2.42	840321	3.44	1266854	4.39
UPPER LIMIT		2736034	2.92	1680642	3.94	2533708	4.89
LOWER LIMIT		684009	1.92	420161	2.94	633427	3.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134455/1-A		1027824	2.41	716597	3.44	1014397	4.38
LCS 660-134455/2-A		987109	2.42	666683	3.44	1000324	4.38
680-87318-1	CV0005A-CS	855136	2.42	555768	3.45	818424	4.39
680-87318-2	CV0005B-CS	824977	2.42	567030	3.45	819541	4.39
680-87318-3	CV0005B-CSD	823872	2.42	565679	3.45	834068	4.39
680-87318-4 MS	CV0005C-CS MS	844502	2.42	574517	3.45	848467	4.39
680-87318-4 MSD	CV0005C-CS MSD	823905	2.42	571804	3.45	852354	4.39

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.: 680-87318-1

SDG No.: 68087318-1

Sample No.: CCVIS 660-134532/8 Date Analyzed: 02/15/2013 15:21

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

Lab File ID (Standard): 1AB15006.D Heated Purge: (Y/N) N

Calibration ID: 2712

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1066498	6.41	1048533	7.50		
UPPER LIMIT		2132996	6.91	2097066	8.00		
LOWER LIMIT		533249	5.91	524267	7.00		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134455/1-A		843677	6.40	853259	7.50		
LCS 660-134455/2-A		831616	6.40	824033	7.50		
680-87318-1	CV0005A-CS	603716	6.42	796814	7.52		
680-87318-2	CV0005B-CS	593518	6.42	863412	7.52		
680-87318-3	CV0005B-CSD	628364	6.42	821612	7.52		
680-87318-4 MS	CV0005C-CS MS	690943	6.42	862071	7.52		
680-87318-4 MSD	CV0005C-CS MSD	653192	6.42	886175	7.53		

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.: 680-87318-1

SDG No.: 68087318-1

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

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

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

Calibration ID: 2667

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

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

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

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

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

Calibration ID: 2667

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

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Sample No.: CCVIS 660-134530/4 Date Analyzed: 02/15/2013 11:56

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

Lab File ID (Standard): 1CB15004.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2569302	3.82	1996632	4.91	3819499	5.86
UPPER LIMIT		5138604	4.32	3993264	5.41	7638998	6.36
LOWER LIMIT		1284651	3.32	998316	4.41	1909750	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134472/1-A		2663358	3.82	2068260	4.91	3931766	5.86
LCS 660-134472/2-A		2307582	3.82	1791084	4.91	3388620	5.86
680-87279-A-21-B MS		2438858	3.82	1896166	4.90	3573845	5.86
680-87279-A-21-C MSD		2500394	3.82	1945760	4.91	3614241	5.86
680-87318-6	CV0005D-CS	2397718	3.82	1891404	4.91	3421048	5.86
680-87318-7	CV0005E-CS	2451589	3.82	1862058	4.91	3466730	5.86
680-87318-8	CV0005E-CSD	2395074	3.82	1872914	4.91	3403632	5.86
680-87318-9	CV0005F-CS	2293690	3.82	1795066	4.91	3286356	5.86
680-87318-10	CV0005G-CS	2443994	3.82	1891156	4.91	3339800	5.86
680-87318-11	CV0005G-CSD	2539640	3.82	1937312	4.91	3421193	5.86
680-87318-12	CV0005H-CS	2465939	3.82	1897768	4.91	3439024	5.86
680-87318-13	CV0005I-CS	2411267	3.82	1846724	4.91	3270768	5.86
680-87318-14	CV0005J-CS	2449178	3.82	1919394	4.91	3499890	5.86
680-87318-15	CV0005J-CSD	2446125	3.82	1892258	4.91	3362915	5.86
680-87318-16	CV0005K-CS	2471486	3.82	1883656	4.91	3423953	5.86
680-87318-17	CV0005L-CS	4639901	3.82	3623283	4.91	6105628	5.86
680-87318-18	CV0005M-CS	2519838	3.82	1949585	4.91	3481521	5.86
680-87318-19	CV0005M-CSD	2381951	3.82	1872819	4.91	3347764	5.86
680-87318-20	CV0005N-CS	2536554	3.82	1990002	4.91	3532800	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.: 680-87318-1

SDG No.: 68087318-1

Sample No.: CCVIS 660-134530/4 Date Analyzed: 02/15/2013 11:56

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

Lab File ID (Standard): 1CB15004.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4339487	7.82	4016358	9.04		
UPPER LIMIT		8678974	8.32	8032716	9.54		
LOWER LIMIT		2169744	7.32	2008179	8.54		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134472/1-A		4251050	7.81	4056698	9.03		
LCS 660-134472/2-A		3830695	7.81	3622690	9.03		
680-87279-A-21-B MS		3794962	7.81	3691062	9.03		
680-87279-A-21-C MSD		3979657	7.81	3723416	9.03		
680-87318-6	CV0005D-CS	3471691	7.81	3230875	9.03		
680-87318-7	CV0005E-CS	3615652	7.81	3384949	9.03		
680-87318-8	CV0005E-CSD	3564576	7.81	3287259	9.03		
680-87318-9	CV0005F-CS	3340485	7.81	3086805	9.03		
680-87318-10	CV0005G-CS	3473271	7.81	3174634	9.03		
680-87318-11	CV0005G-CSD	3513513	7.81	3163642	9.03		
680-87318-12	CV0005H-CS	3478519	7.81	3187847	9.03		
680-87318-13	CV0005I-CS	3343804	7.82	3011218	9.03		
680-87318-14	CV0005J-CS	3428804	7.81	3179341	9.03		
680-87318-15	CV0005J-CSD	3386823	7.81	3160338	9.03		
680-87318-16	CV0005K-CS	3479238	7.81	3164045	9.03		
680-87318-17	CV0005L-CS	6668068	7.82	6445269	9.04		
680-87318-18	CV0005M-CS	3525279	7.81	3279572	9.03		
680-87318-19	CV0005M-CSD	3446048	7.81	3240530	9.03		
680-87318-20	CV0005N-CS	3603007	7.81	3302394	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.: 680-87318-1

SDG No.: 68087318-1

Sample No.: CCVIS 660-134598/3 Date Analyzed: 02/18/2013 14:07

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

Lab File ID (Standard): 1CB18003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2084677	3.82	1616631	4.90	3184282	5.86
UPPER LIMIT		4169354	4.32	3233262	5.40	6368564	6.36
LOWER LIMIT		1042339	3.32	808316	4.40	1592141	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87318-4	CV0005C-CS	1873381	3.82	1502626	4.90	2798072	5.86
680-87318-5	CV0005AB-GS	2046115	3.82	1578935	4.90	2896598	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.: 680-87318-1

SDG No.: 68087318-1

Sample No.: CCVIS 660-134598/3 Date Analyzed: 02/18/2013 14:07

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

Lab File ID (Standard): 1CB18003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3977138	7.81	3965161	9.03		
UPPER LIMIT		7954276	8.31	7930322	9.53		
LOWER LIMIT		1988569	7.31	1982581	8.53		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87318-4	CV0005C-CS	3194811	7.80	2919384	9.02		
680-87318-5	CV0005AB-GS	2898134	7.80	2704170	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 I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005A-CS | Lab Sample ID: 680-87318-1

Matrix: Solid | Lab File ID: 1AB15025.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 10:02

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.15(g) | Date Analyzed: 02/15/2013 20:09

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

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

% Moisture: 4.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	38	J	41	5.2
120-12-7	Anthracene	54		8.7	4.4
56-55-3	Benzo[a]anthracene	180		8.3	4.0
50-32-8	Benzo[a]pyrene	130		11	5.4
205-99-2	Benzo[b]fluoranthene	200		13	6.3
191-24-2	Benzo[g,h,i]perylene	130		21	4.6
207-08-9	Benzo[k]fluoranthene	68		8.3	3.7
218-01-9	Chrysene	200		9.3	4.7
53-70-3	Dibenz(a,h)anthracene	48		21	4.2
206-44-0	Fluoranthene	340		21	4.1
86-73-7	Fluorene	13	J	21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	120		21	7.4
90-12-0	1-Methylnaphthalene	37	J	41	4.6
91-57-6	2-Methylnaphthalene	40	J	41	7.4
91-20-3	Naphthalene	50		41	4.6
85-01-8	Phenanthrene	270		8.3	4.0
129-00-0	Pyrene	270		21	3.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15025.D
Lab Smp Id: 680-87318-A-1-A Client Smp ID: CV0005A-CS
Inj Date : 15-FEB-2013 20:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-1-a
Misc Info : 680-87318-A-1-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	4.481	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.420	2.415	(1.000)	855136	40.0000	
* 6 Acenaphthene-d10	164	3.446	3.441	(1.000)	555768	40.0000	
* 10 Phenanthrene-d10	188	4.391	4.386	(1.000)	818424	40.0000	
$ 14 o-Terphenyl	230	4.669	4.664	(1.063)	102813	8.64546	597.4290
* 18 Chrysene-d12	240	6.416	6.411	(1.000)	603716	40.0000	
* 23 Perylene-d12	264	7.516	7.501	(1.000)	796814	40.0000	
2 Naphthalene	128	2.431	2.426	(1.004)	15083	0.72668	50.2156
3 2-Methylnaphthalene	141	2.831	2.832	(1.170)	6498	0.58438	40.3824
4 1-Methylnaphthalene	142	2.885	2.885	(1.192)	6763	0.53729	37.1285
5 Acenaphthylene	152	3.360	3.355	(0.975)	13614	0.55477	38.3362
9 Fluorene	166	3.772	3.772	(1.095)	3070	0.18382	12.7025
11 Phenanthrene	178	4.402	4.402	(1.002)	88395	3.95566	273.3486
12 Anthracene	178	4.434	4.434	(1.010)	17743	0.77876	53.8150
13 Carbazole	167	4.594	4.589	(1.046)	11678	0.59796	41.3207

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.267	5.262	(1.199)	107749	4.86338	336.0753
16 Pyrene	202	5.438	5.433	(0.848)	86143	3.95094	273.0223
17 Benzo(a)anthracene	228	6.411	6.395	(0.999)	46004	2.55207	176.3563
19 Chrysene	228	6.427	6.427	(1.002)	51063	2.90618	200.8265
20 Benzo(b)fluoranthene	252	7.233	7.217	(0.962)	65618	2.95055	203.8922(M)
21 Benzo(k)fluoranthene	252	7.244	7.239	(0.964)	23006	0.98942	68.3724(QM)
22 Benzo(a)pyrene	252	7.463	7.452	(0.993)	39400	1.86564	128.9218
24 Indeno(1,2,3-cd)pyrene	276	8.254	8.238	(1.098)	29649	1.77795	122.8619(M)
25 Dibenzo(a,h)anthracene	278	8.264	8.254	(1.099)	11678	0.70049	48.4063
26 Benzo(g,h,i)perylene	276	8.467	8.446	(1.127)	31985	1.85139	127.9366

QC Flag Legend

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

Data File: 1AB15025.D

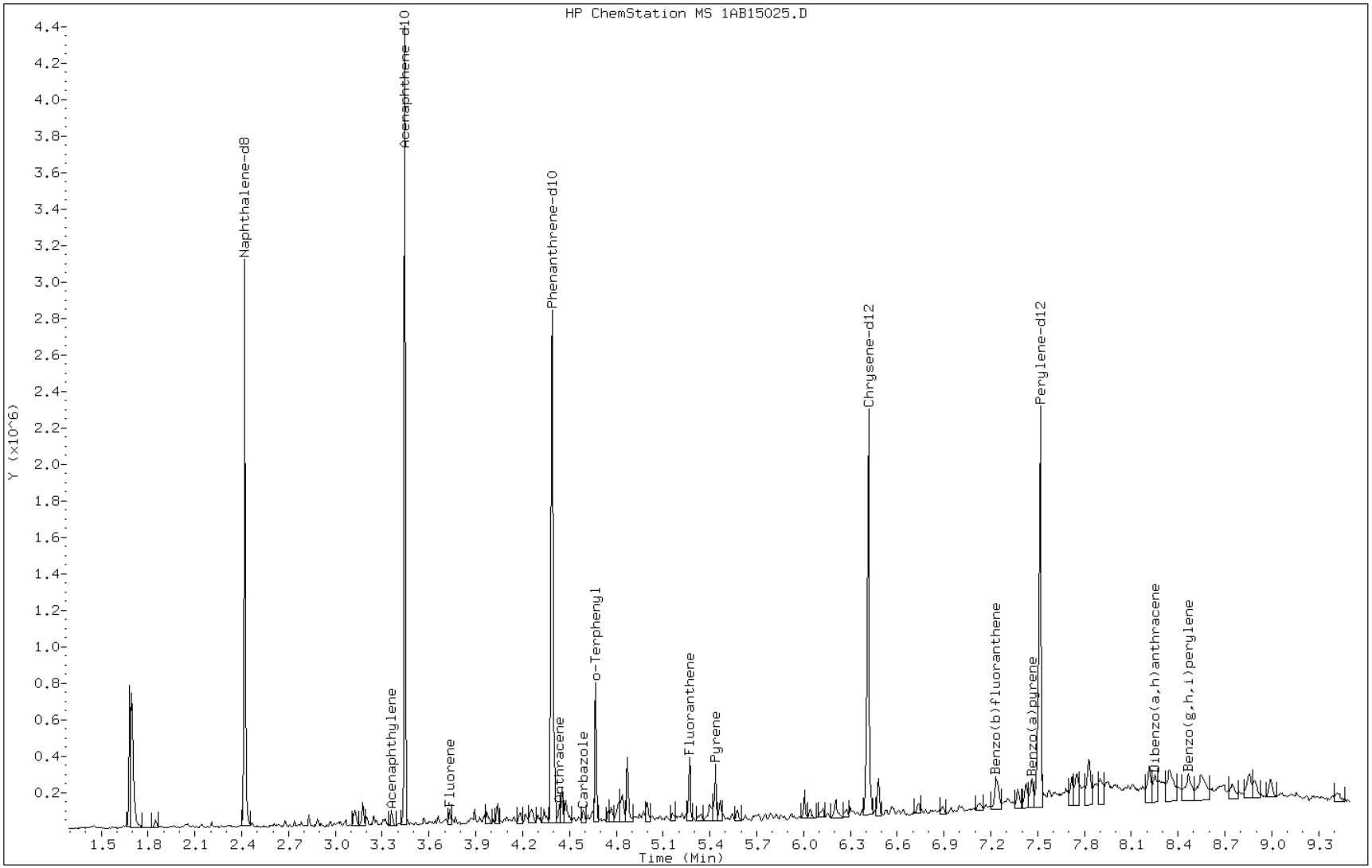
Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a

Operator: SCC



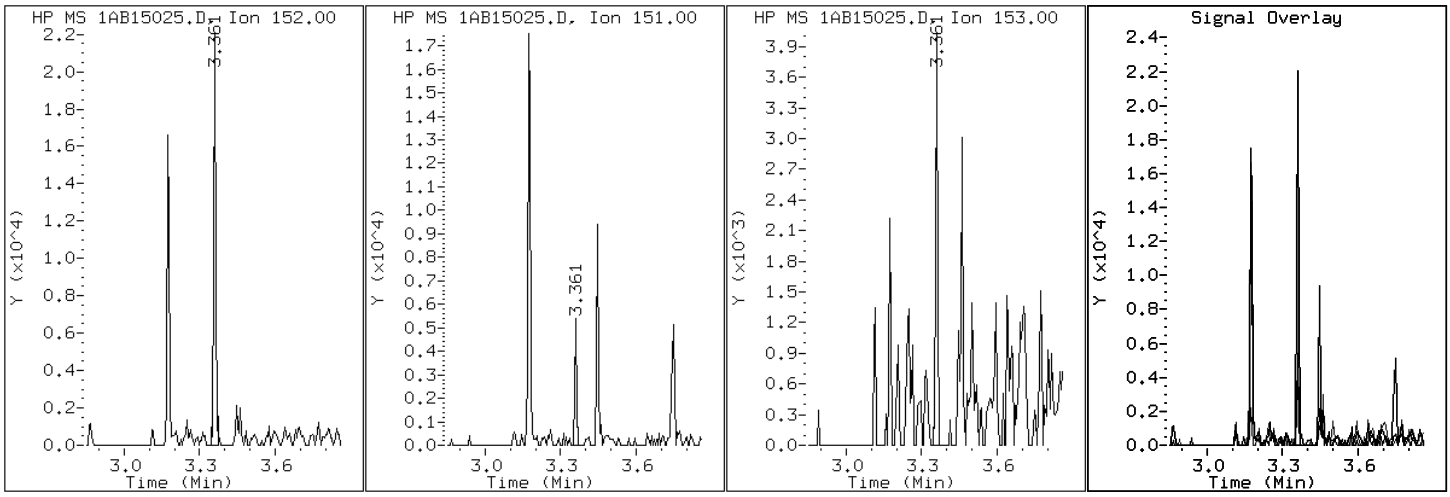
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

5 Acenaphthylene



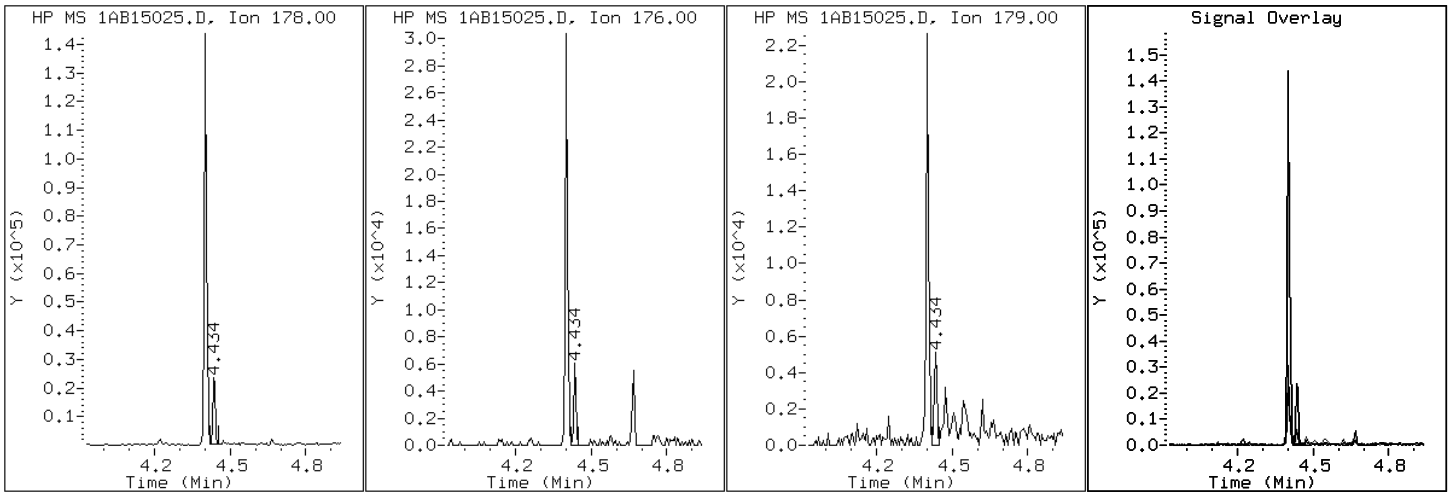
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

12 Anthracene



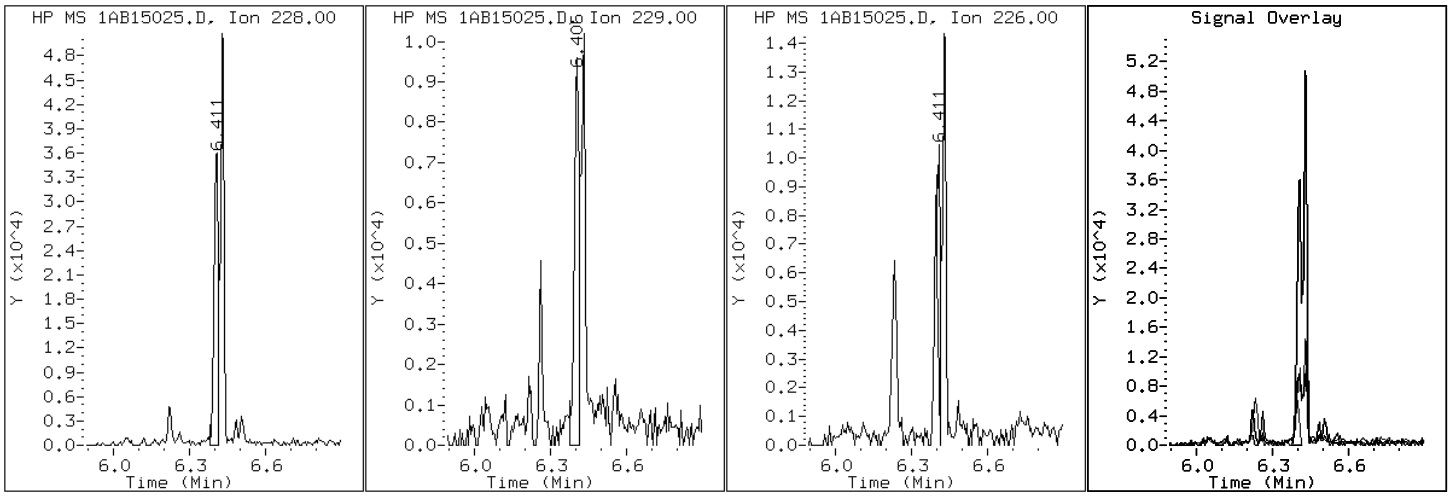
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

17 Benzo(a)anthracene



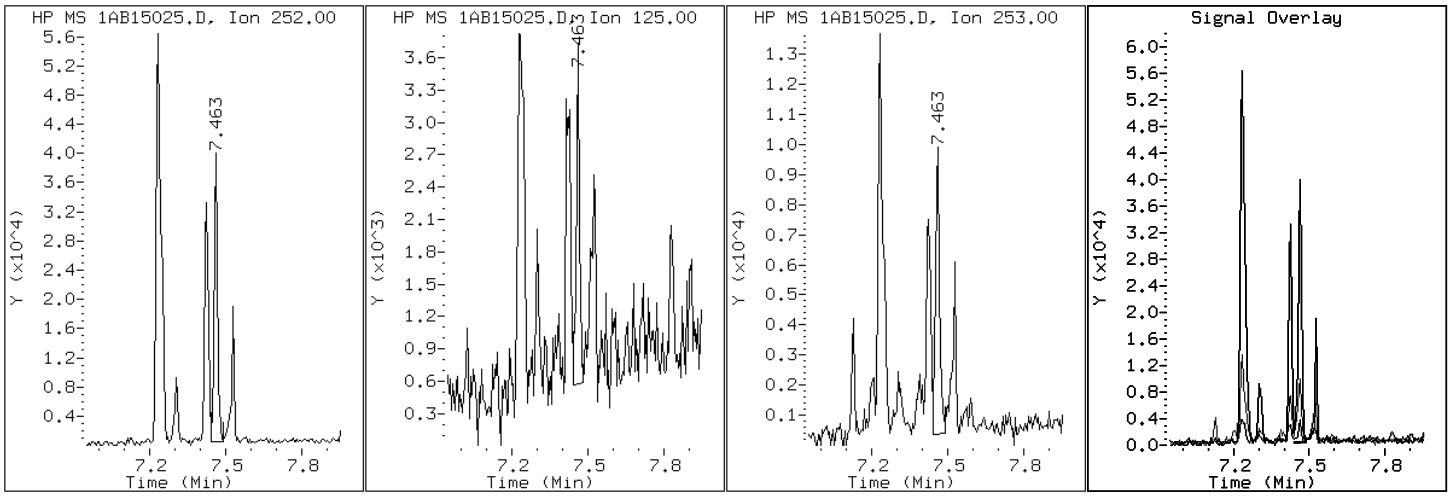
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS | Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a | Operator: SCC

22 Benzo(a)pyrene



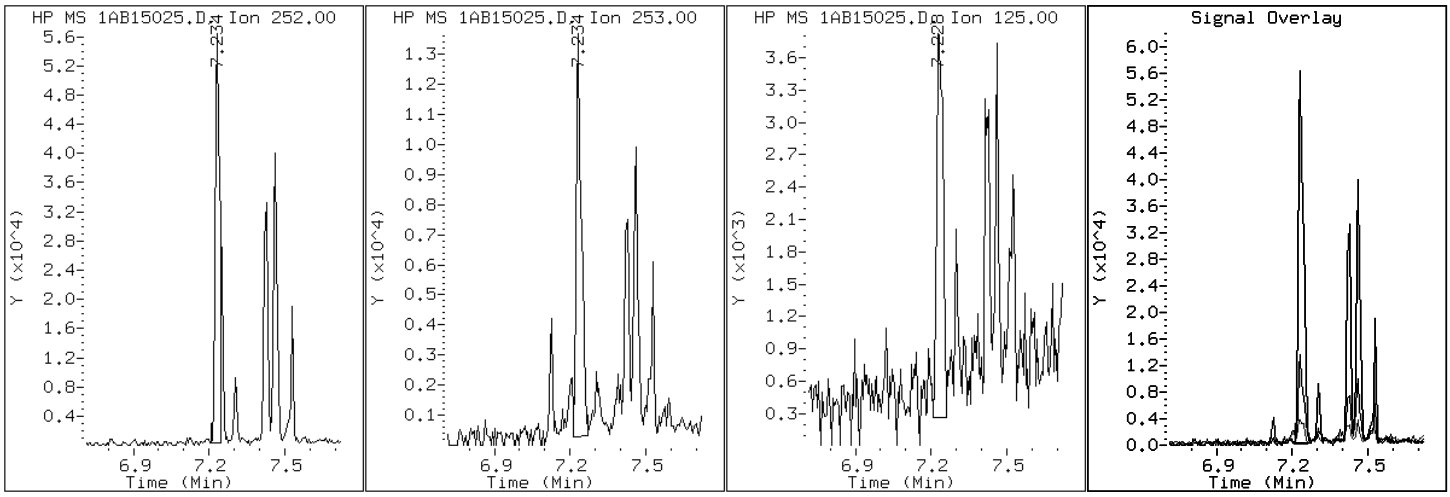
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

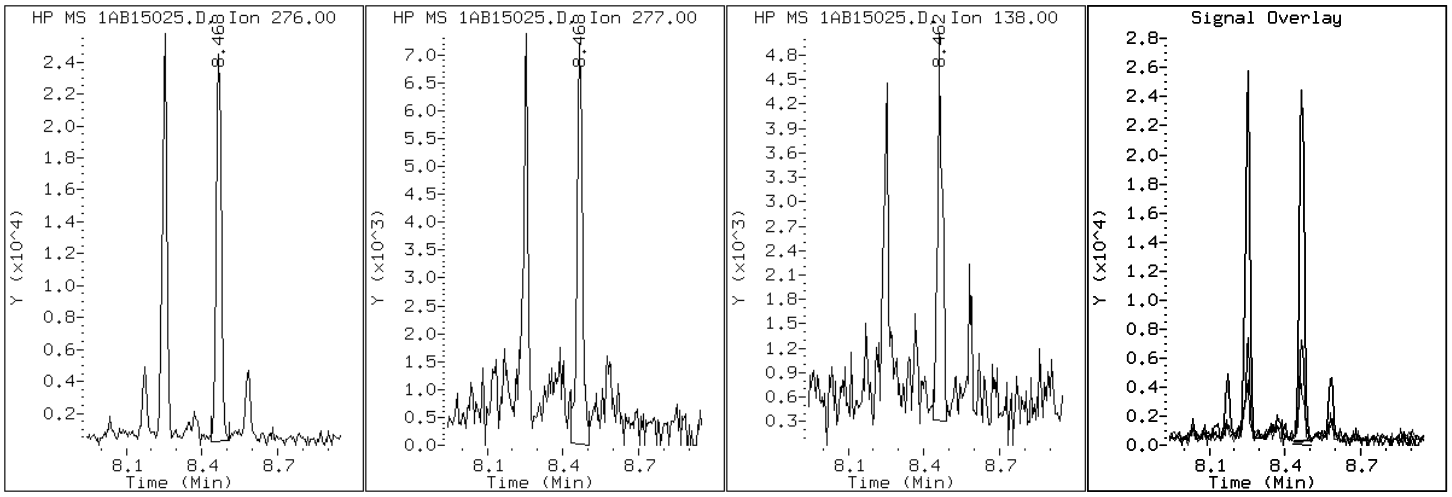
Client ID: CV0005A-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



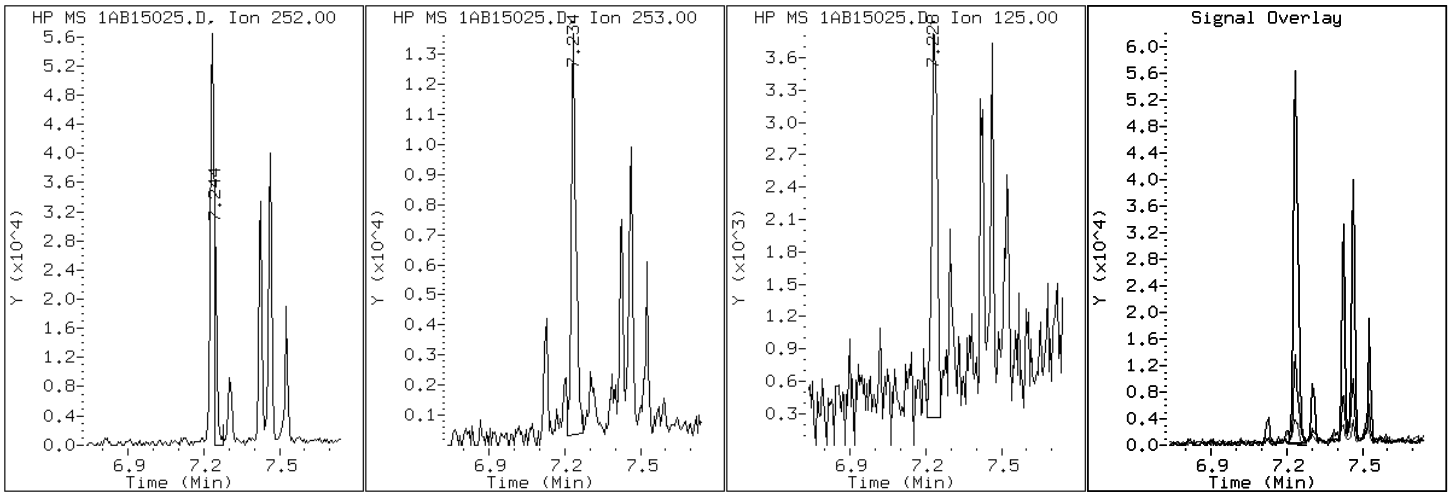
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

21 Benzo(k)fluoranthene



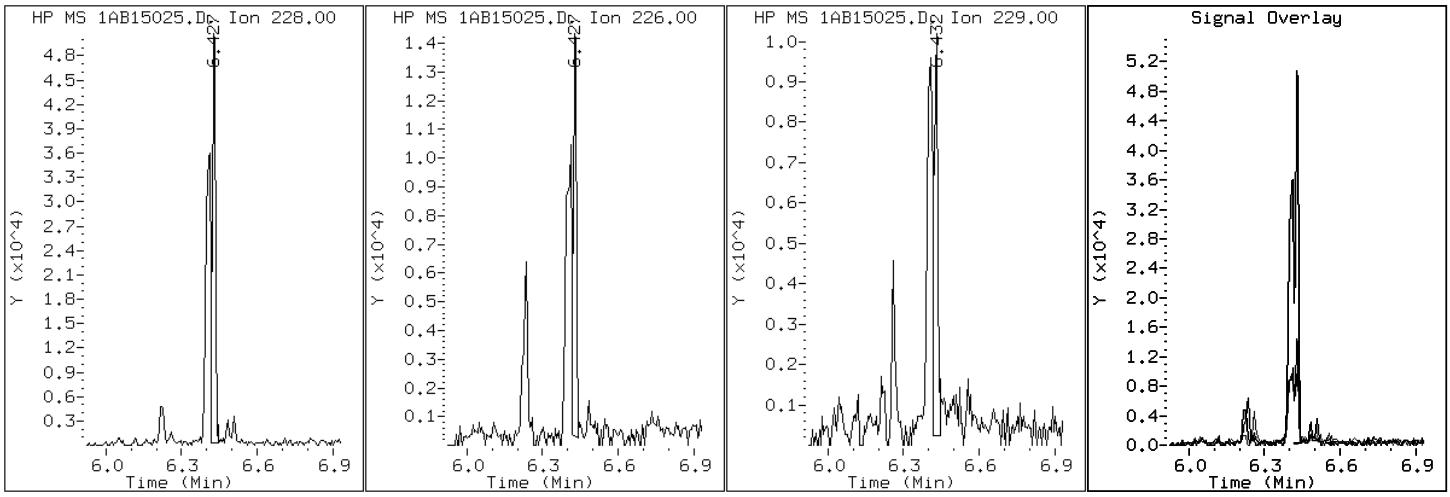
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

19 Chrysene



Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

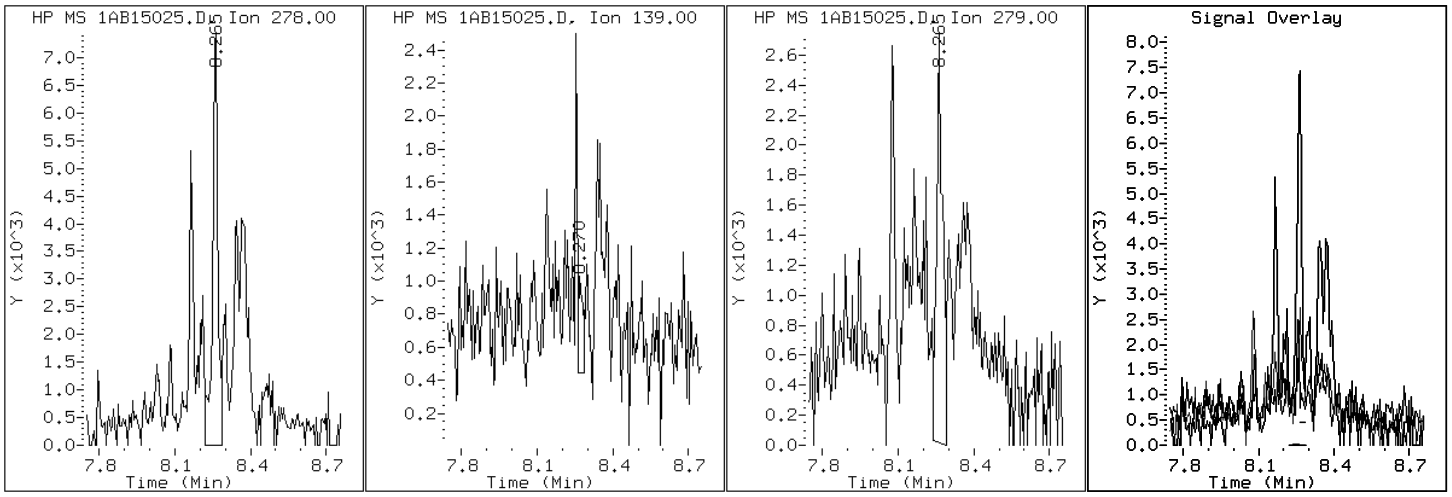
Client ID: CV0005A-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a

Operator: SCC

25 Dibenzo(a,h)anthracene



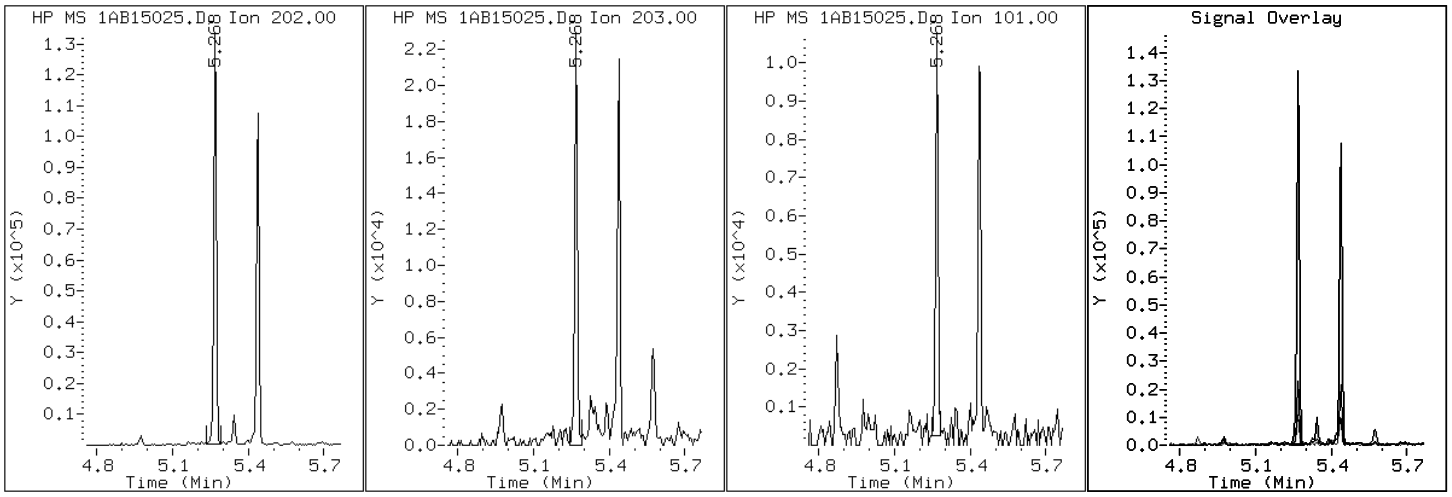
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

15 Fluoranthene



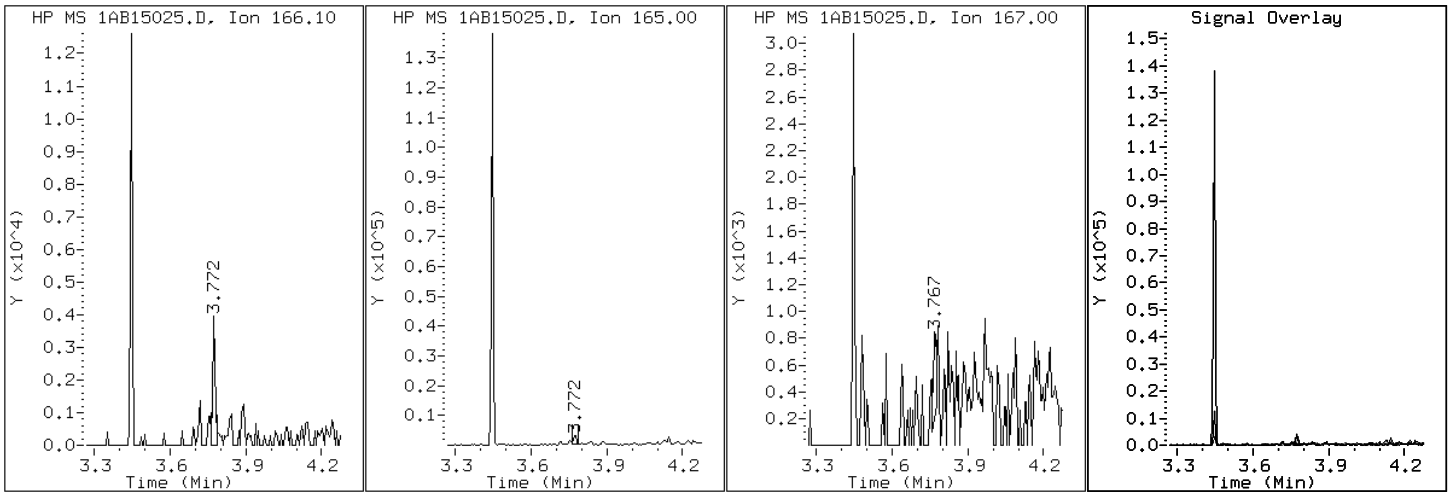
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

9 Fluorene



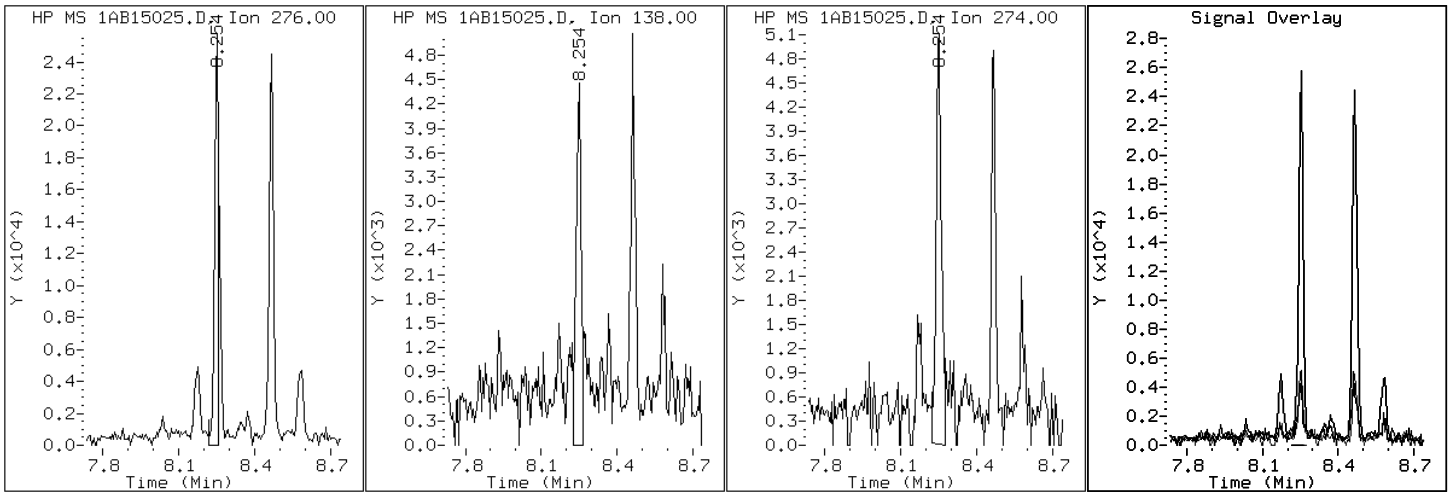
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

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



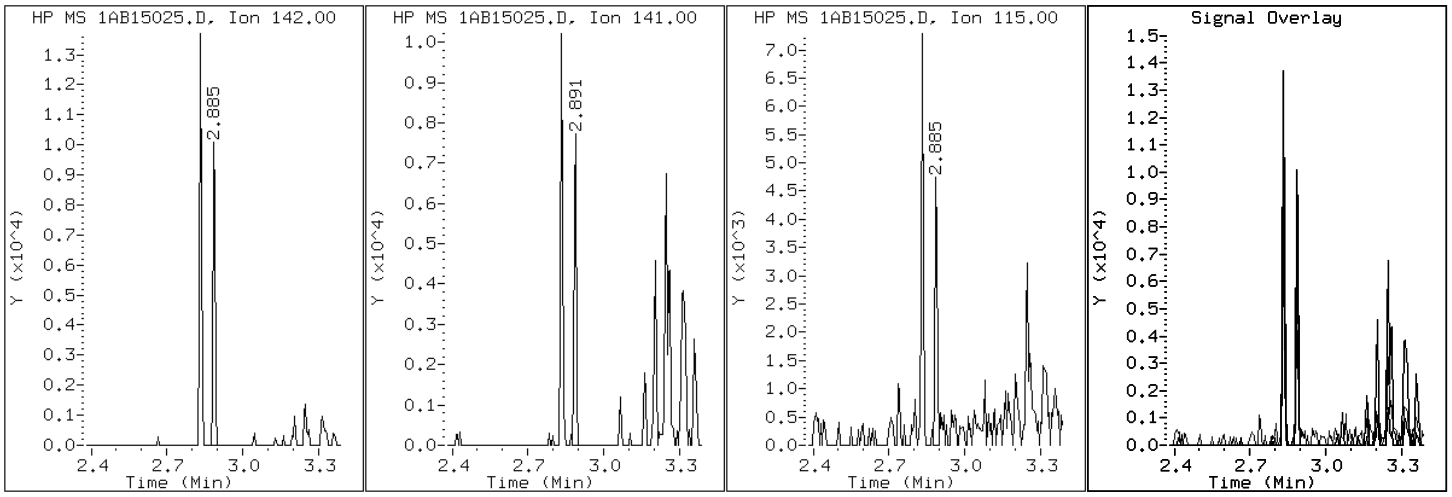
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

4 1-Methylnaphthalene



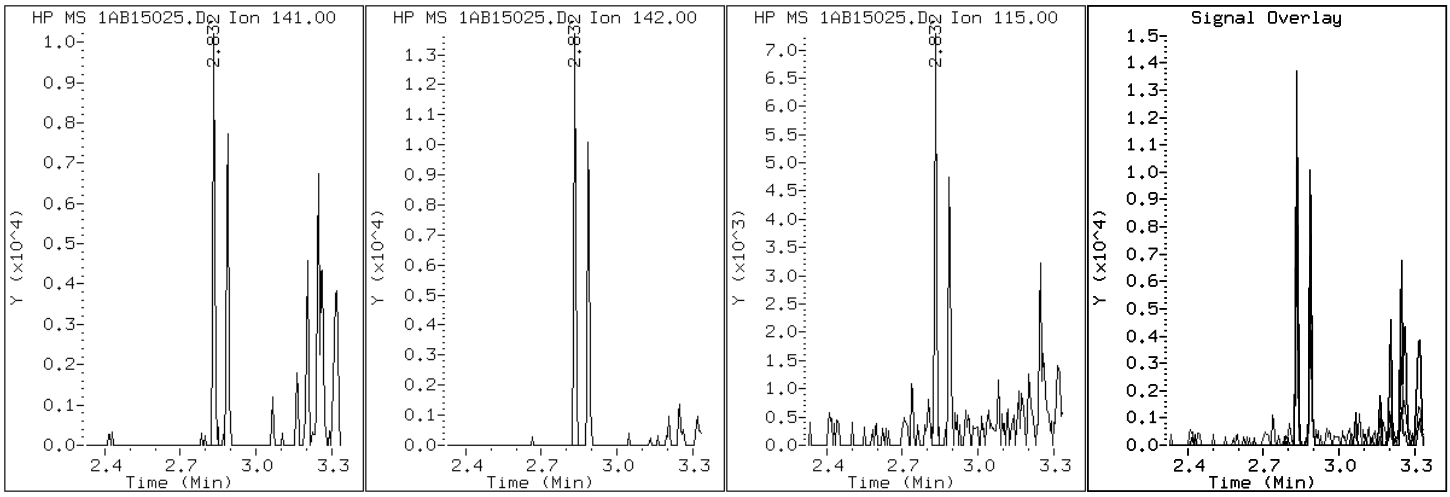
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

3 2-Methylnaphthalene



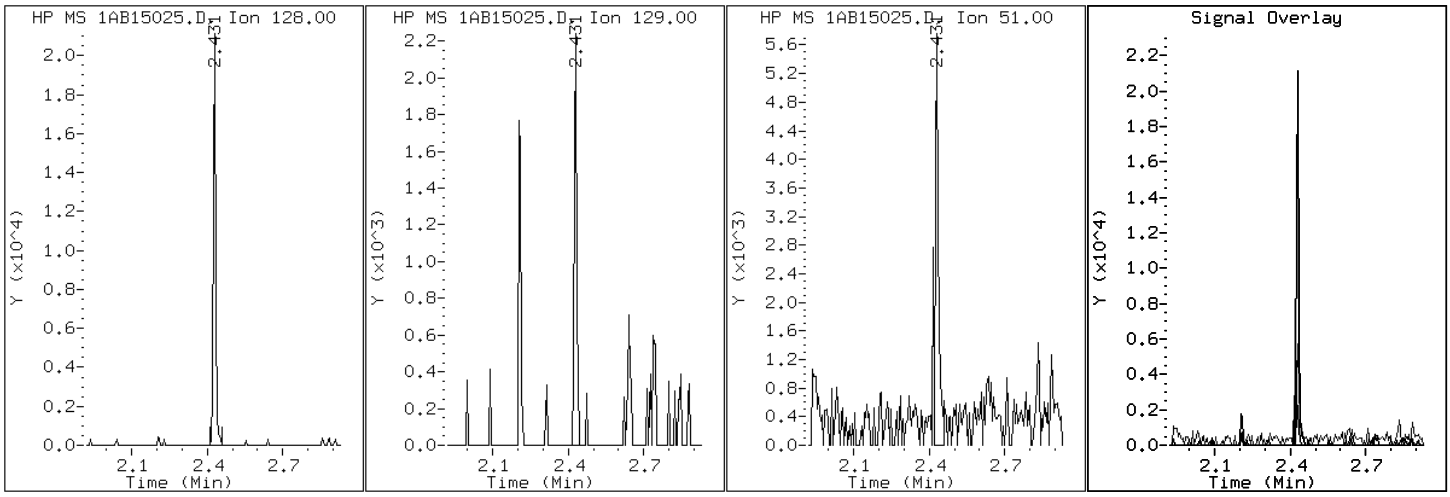
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

2 Naphthalene



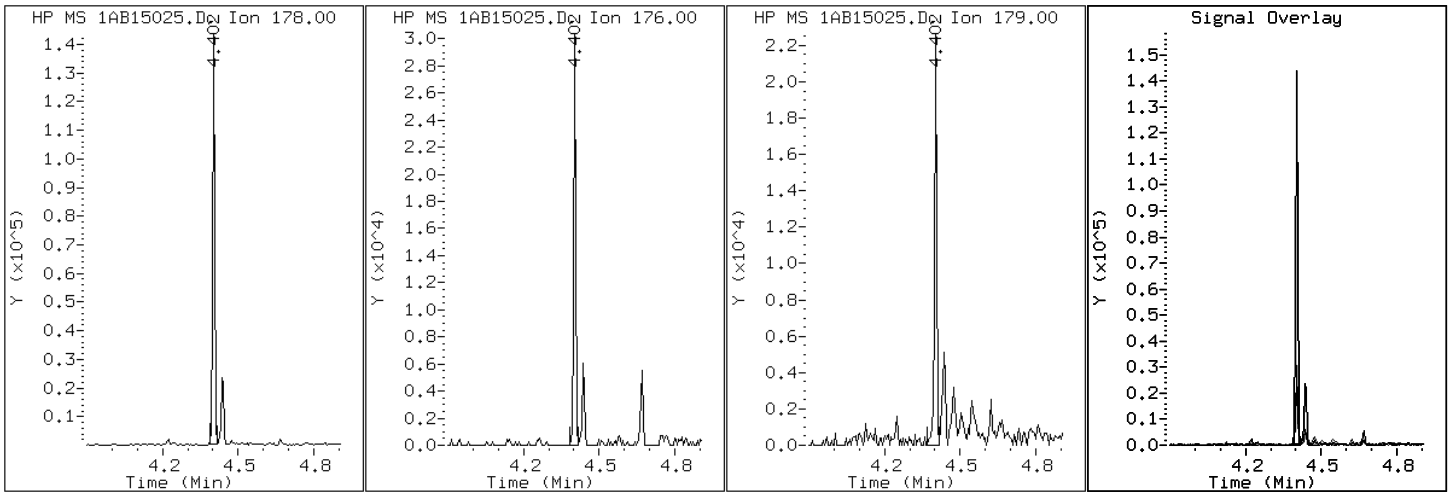
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

11 Phenanthrene



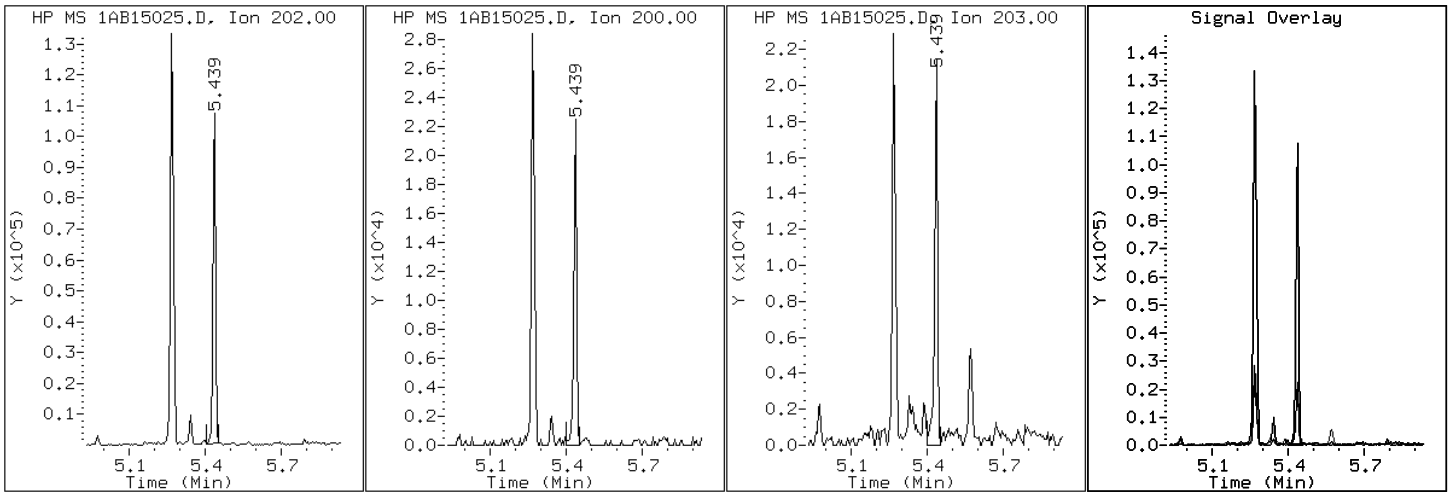
Data File: 1AB15025.D

Date: 15-FEB-2013 20:09

Client ID: CV0005A-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-1-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15025.D
Inj. Date and Time: 15-FEB-2013 20:09
Instrument ID: BSMA5973.i
Client ID: CV0005A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

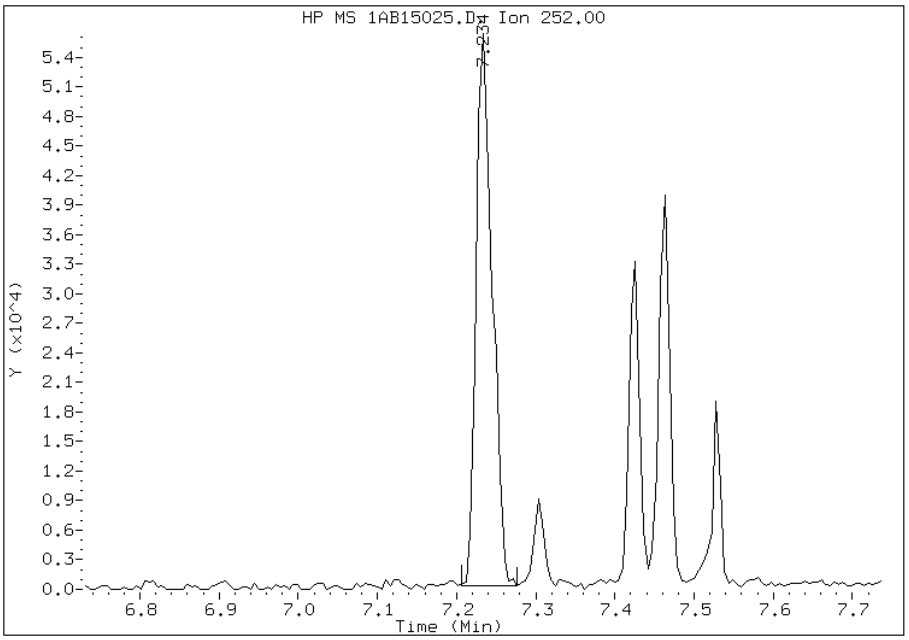
Processing Integration Results

RT: 7.23

Response: 78107

Amount: 4

Conc: 243



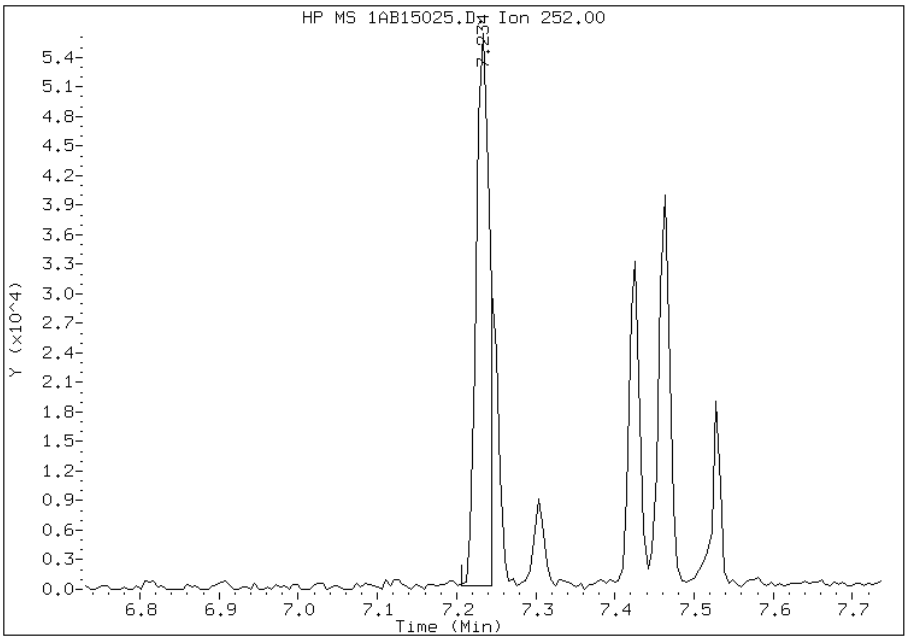
Manual Integration Results

RT: 7.23

Response: 65618

Amount: 3

Conc: 204



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15025.D
Inj. Date and Time: 15-FEB-2013 20:09
Instrument ID: BSMA5973.i
Client ID: CV0005A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

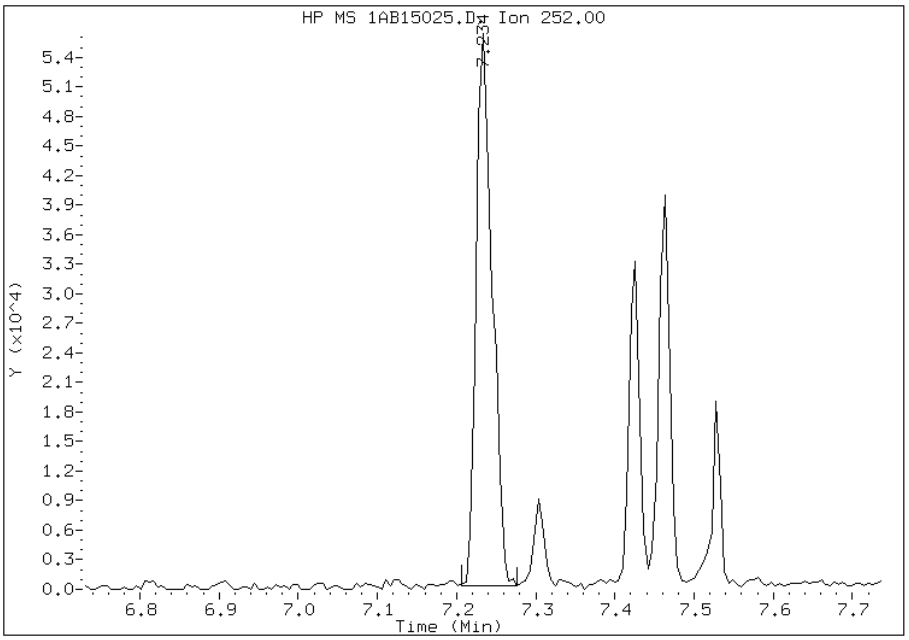
Processing Integration Results

RT: 7.23

Response: 78116

Amount: 3

Conc: 232



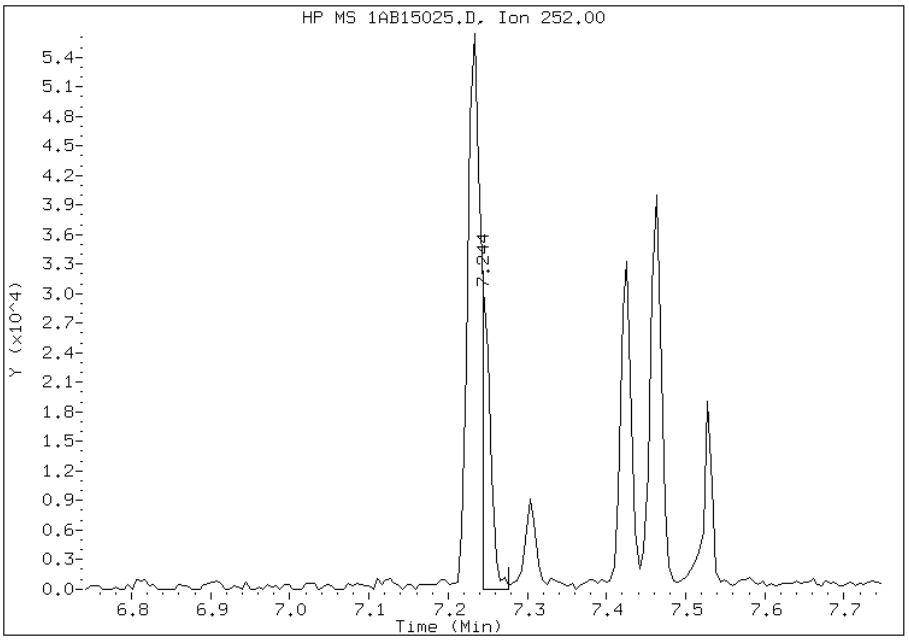
Manual Integration Results

RT: 7.24

Response: 23006

Amount: 1

Conc: 68



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15025.D
Inj. Date and Time: 15-FEB-2013 20:09
Instrument ID: BSMA5973.i
Client ID: CV0005A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

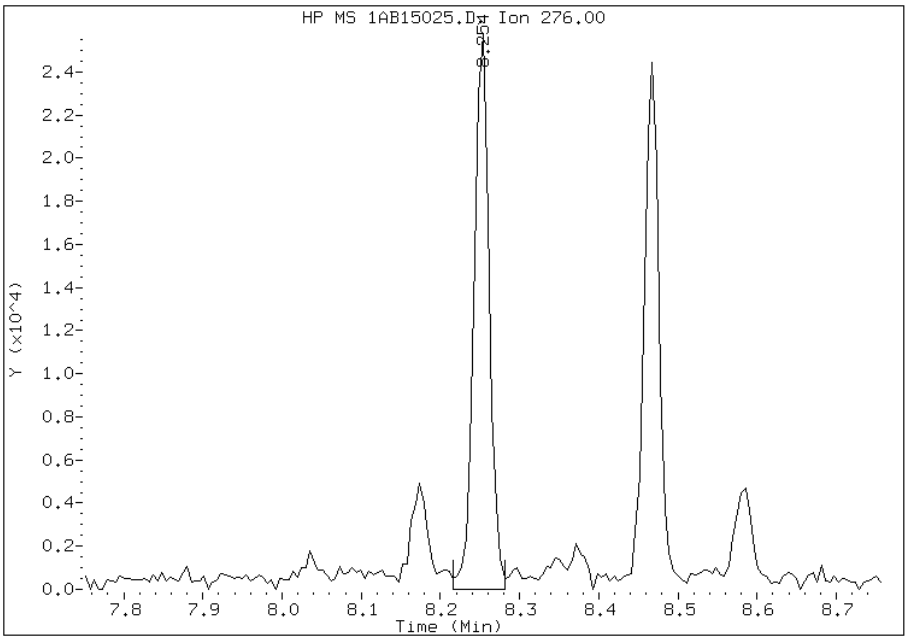
Processing Integration Results

RT: 8.25

Response: 34168

Amount: 2

Conc: 142



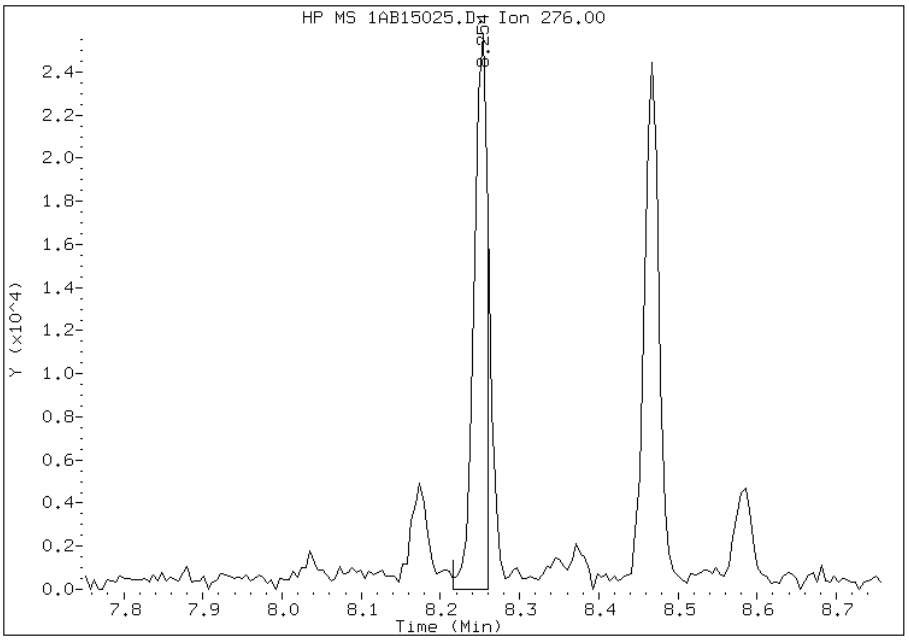
Manual Integration Results

RT: 8.25

Response: 29649

Amount: 2

Conc: 123



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005B-CS | Lab Sample ID: 680-87318-2

Matrix: Solid | Lab File ID: 1AB15026.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 10:17

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.15(g) | Date Analyzed: 02/15/2013 20:24

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

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

% Moisture: 25.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	64		53	6.6
120-12-7	Anthracene	74		11	5.6
56-55-3	Benzo[a]anthracene	300		11	5.2
50-32-8	Benzo[a]pyrene	230		14	6.9
205-99-2	Benzo[b]fluoranthene	320		16	8.1
191-24-2	Benzo[g,h,i]perylene	210		27	5.8
207-08-9	Benzo[k]fluoranthene	120		11	4.8
218-01-9	Chrysene	280		12	6.0
53-70-3	Dibenz(a,h)anthracene	64		27	5.4
206-44-0	Fluoranthene	450		27	5.3
86-73-7	Fluorene	20	J	27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	190		27	9.4
90-12-0	1-Methylnaphthalene	62		53	5.8
91-57-6	2-Methylnaphthalene	77		53	9.4
91-20-3	Naphthalene	74		53	5.8
85-01-8	Phenanthrene	360		11	5.2
129-00-0	Pyrene	390		27	4.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15026.D
Lab Smp Id: 680-87318-A-2-A Client Smp ID: CV0005B-CS
Inj Date : 15-FEB-2013 20:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-2-a
Misc Info : 680-87318-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	25.389	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.421	2.415	(1.000)	824977	40.0000	
* 6 Acenaphthene-d10	164	3.447	3.441	(1.000)	567030	40.0000	
* 10 Phenanthrene-d10	188	4.392	4.386	(1.000)	819541	40.0000	
$ 14 o-Terphenyl	230	4.670	4.664	(1.063)	80384	6.75021	597.1789
* 18 Chrysene-d12	240	6.417	6.411	(1.000)	593518	40.0000	
* 23 Perylene-d12	264	7.523	7.501	(1.000)	863412	40.0000	
2 Naphthalene	128	2.432	2.426	(1.004)	16799	0.83894	74.2193
3 2-Methylnaphthalene	141	2.833	2.832	(1.170)	9303	0.86722	76.7217
4 1-Methylnaphthalene	142	2.886	2.885	(1.192)	8565	0.70533	62.3990
5 Acenaphthylene	152	3.361	3.355	(0.975)	18243	0.72863	64.4608
9 Fluorene	166	3.773	3.772	(1.095)	3850	0.22594	19.9889
11 Phenanthrene	178	4.403	4.402	(1.002)	92038	4.11307	363.8756
12 Anthracene	178	4.435	4.434	(1.010)	19078	0.83622	73.9785
13 Carbazole	167	4.595	4.589	(1.046)	13738	0.70248	62.1469

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.274	5.262	(1.201)	113980	5.13762	454.5154
16 Pyrene	202	5.440	5.433	(0.848)	95156	4.43930	392.7371
17 Benzo(a)anthracene	228	6.406	6.395	(0.998)	60760	3.42858	303.3199
19 Chrysene	228	6.433	6.427	(1.002)	54291	3.14299	278.0546
20 Benzo(b)fluoranthene	252	7.234	7.217	(0.962)	87422	3.62777	320.9417(M)
21 Benzo(k)fluoranthene	252	7.245	7.239	(0.963)	33824	1.34247	118.7661(QMH)
22 Benzo(a)pyrene	252	7.464	7.452	(0.992)	58648	2.56286	226.7312
24 Indeno(1,2,3-cd)pyrene	276	8.255	8.238	(1.097)	39785	2.20175	194.7845(M)
25 Dibenzo(a,h)anthracene	278	8.266	8.254	(1.099)	13035	0.72158	63.8369
26 Benzo(g,h,i)perylene	276	8.474	8.446	(1.126)	44522	2.37829	210.4025

QC Flag Legend

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

Data File: 1AB15026.D

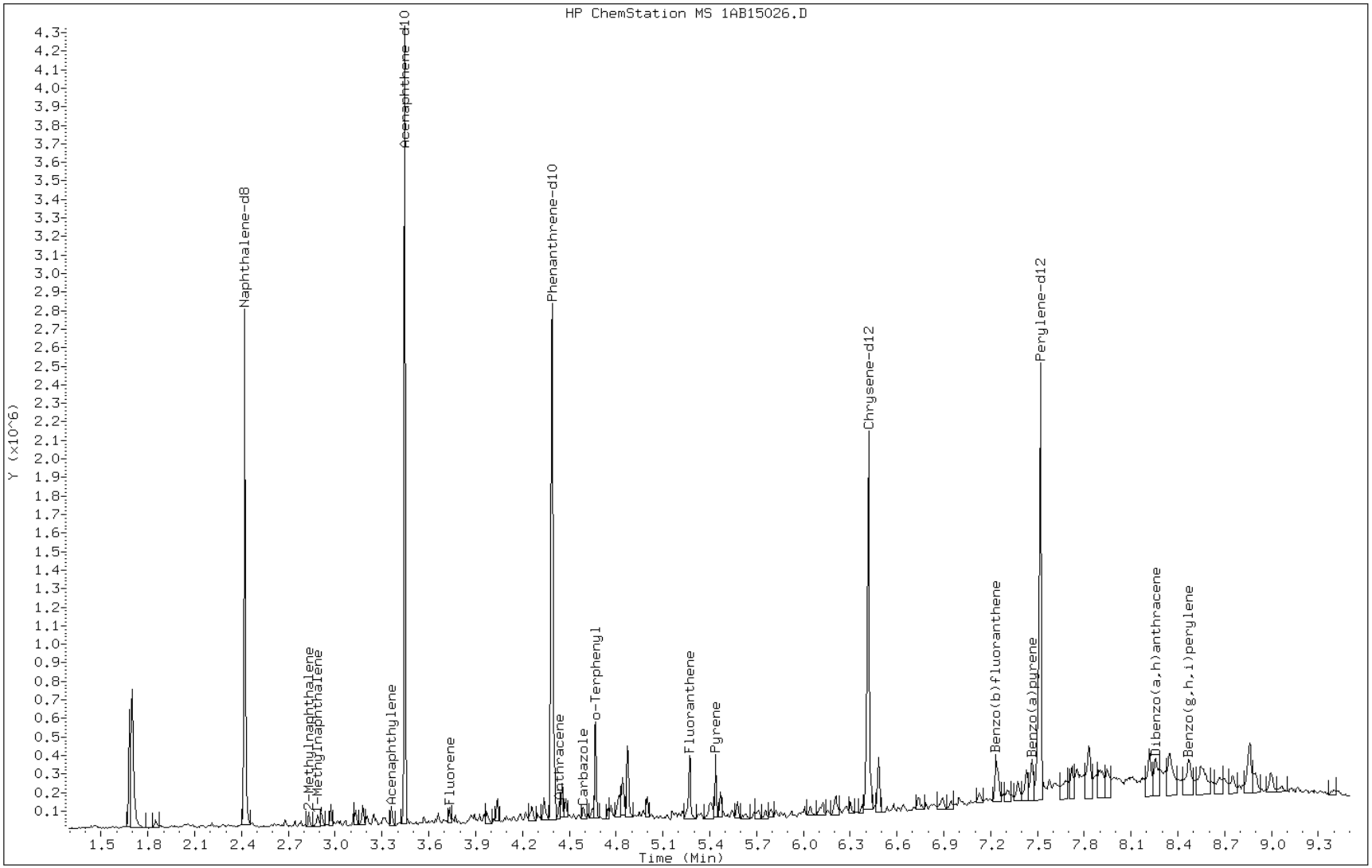
Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a

Operator: SCC



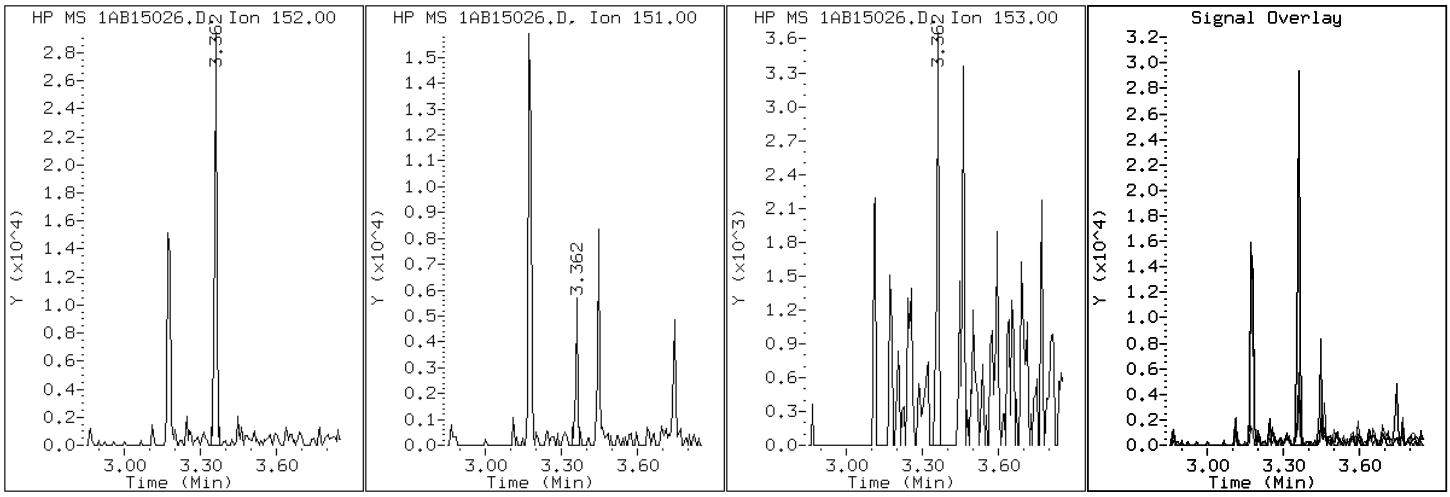
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a Operator: SCC

5 Acenaphthylene



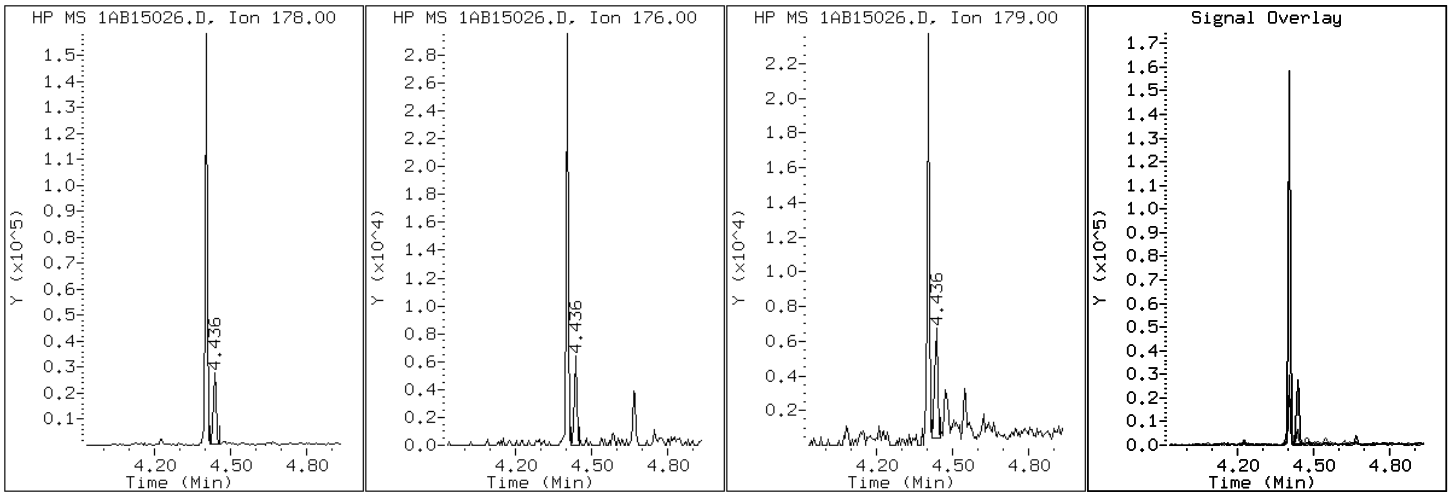
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS | Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a | Operator: SCC

12 Anthracene



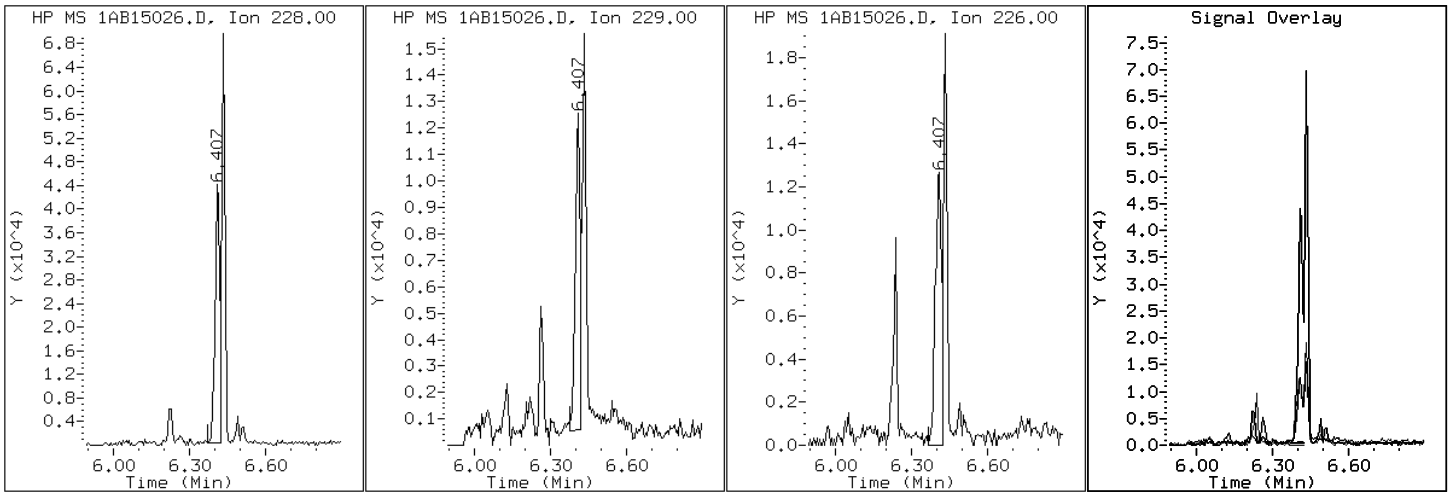
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a Operator: SCC

17 Benzo(a)anthracene



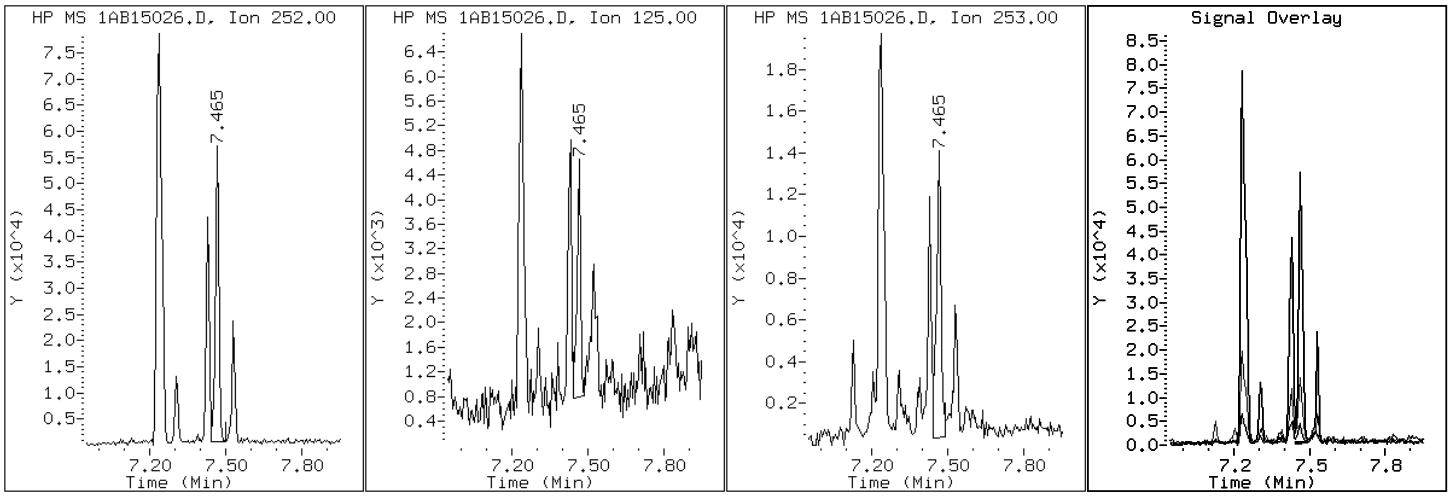
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a Operator: SCC

22 Benzo(a)pyrene



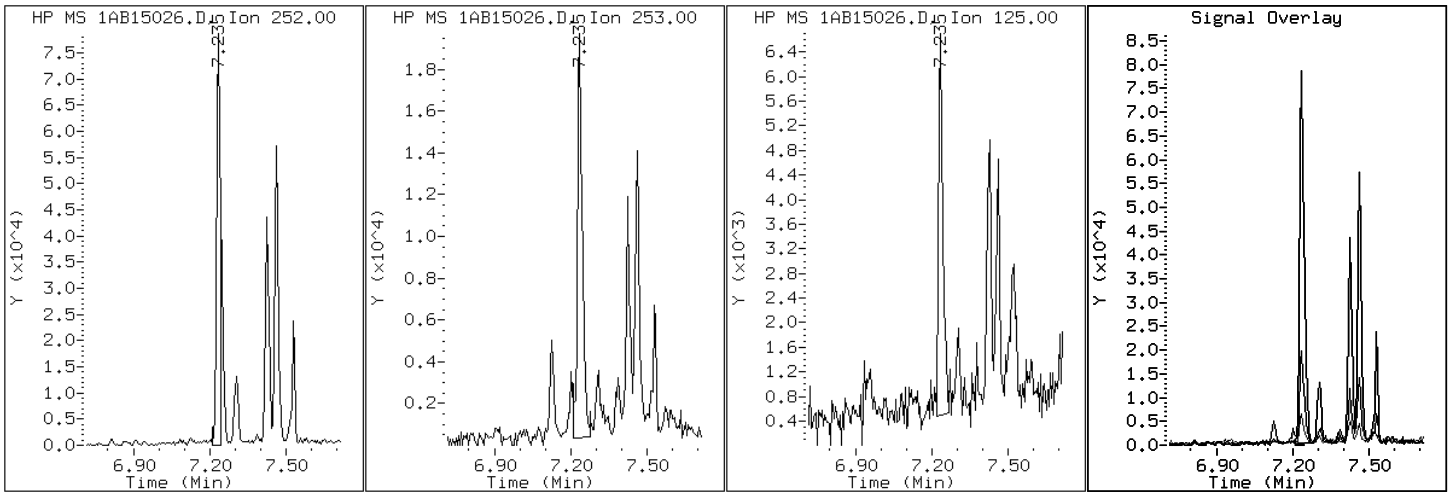
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a Operator: SCC

20 Benzo(b)fluoranthene



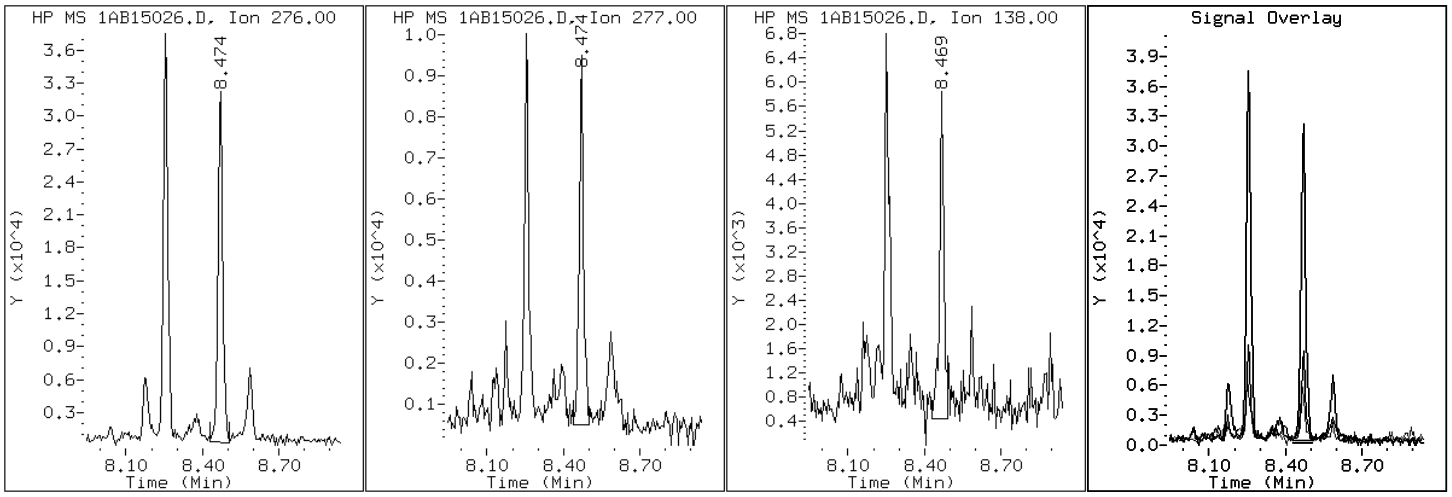
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a Operator: SCC

26 Benzo(g,h,i)perylene



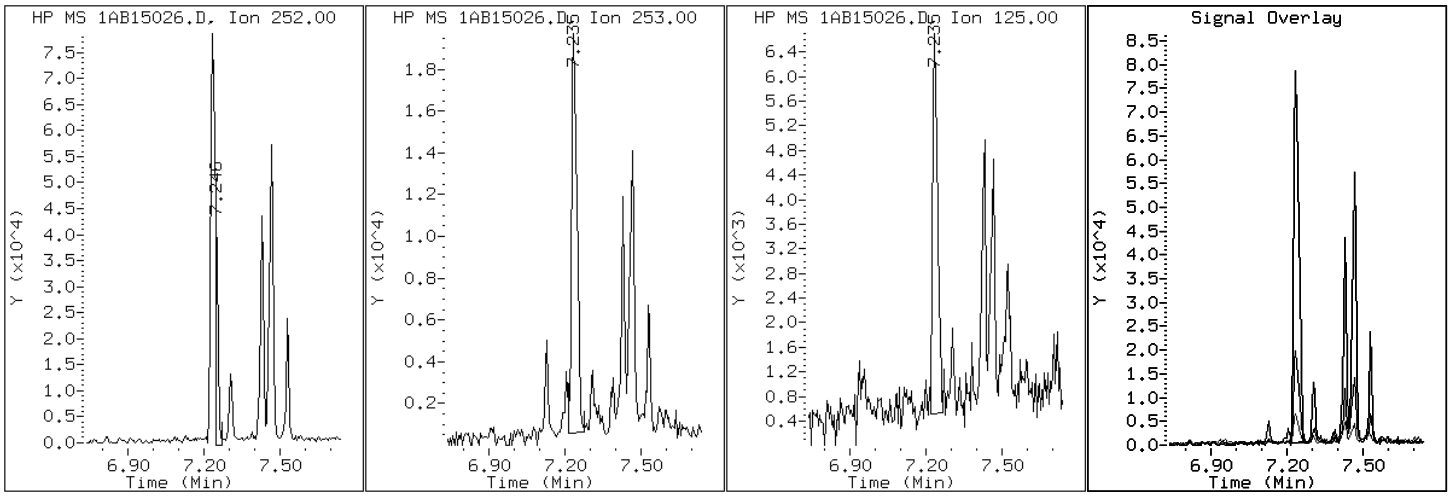
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a Operator: SCC

21 Benzo(k)fluoranthene



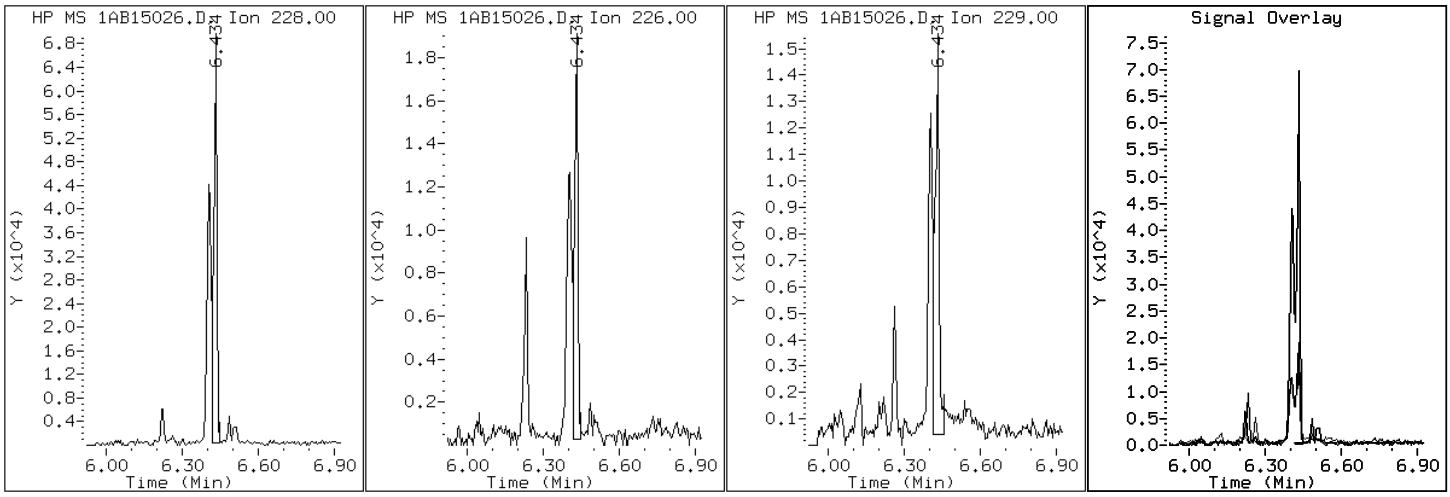
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a Operator: SCC

19 Chrysene



Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

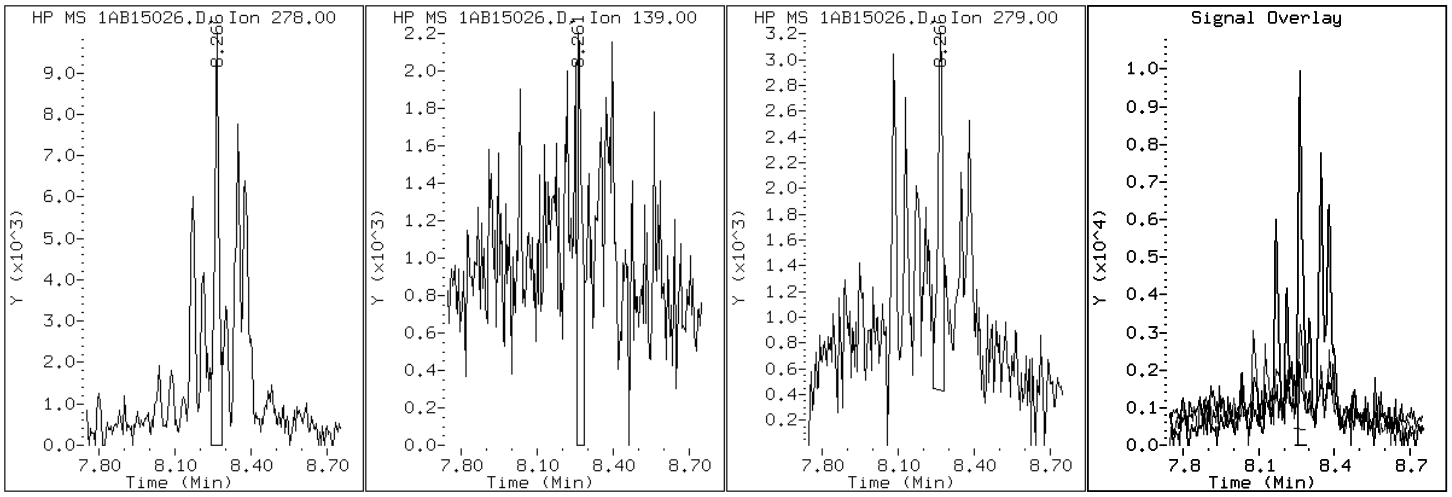
Client ID: CV0005B-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a

Operator: SCC

25 Dibenzo(a,h)anthracene



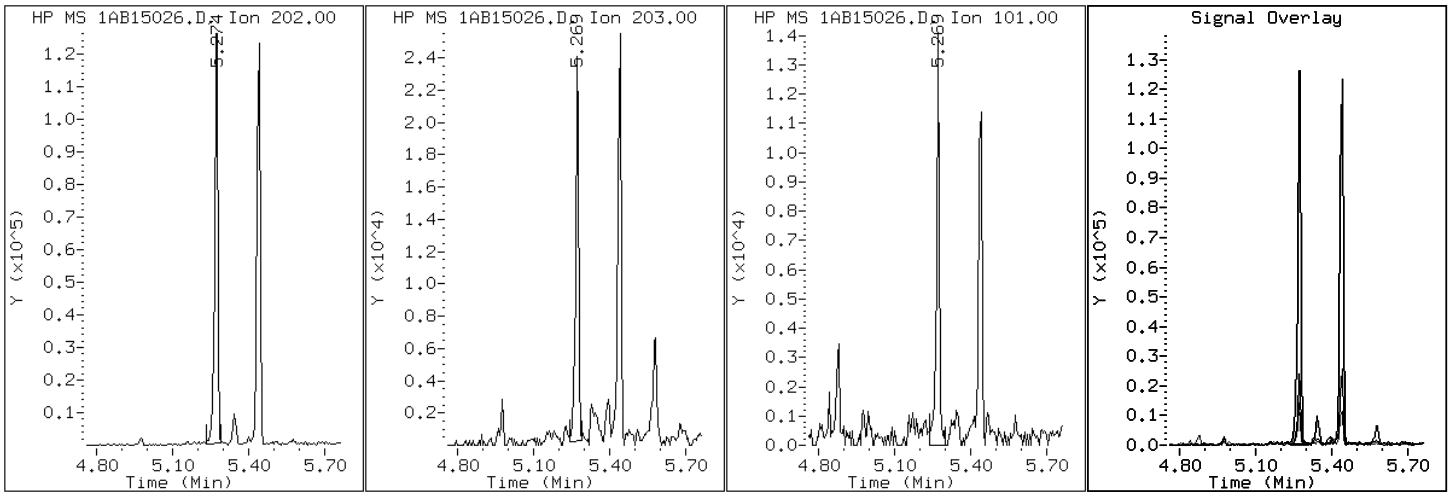
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a Operator: SCC

15 Fluoranthene



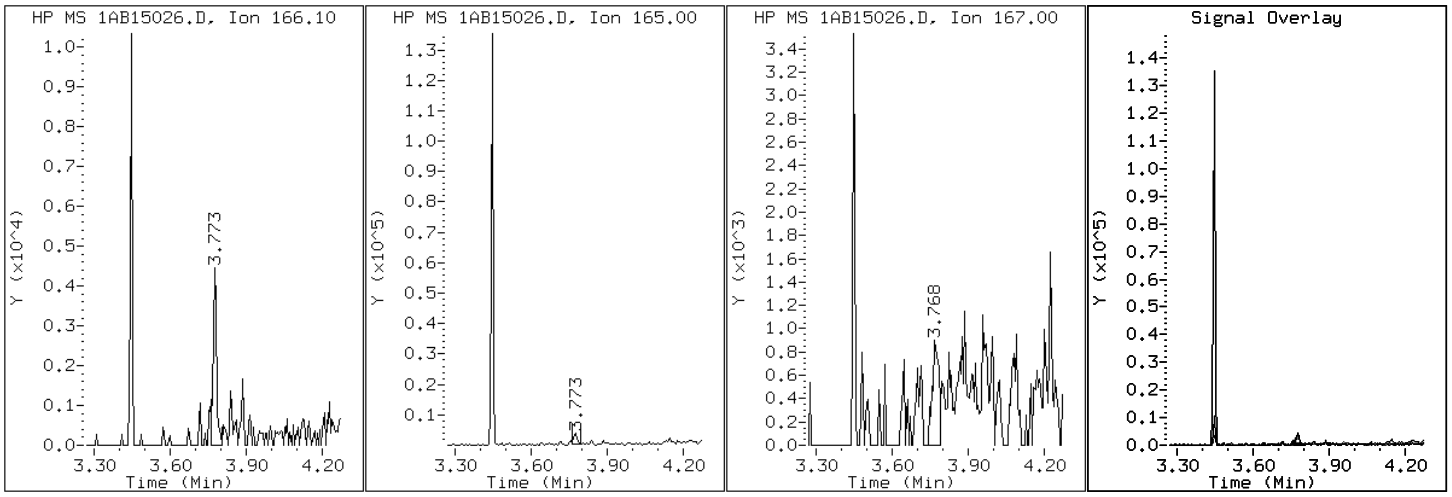
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a Operator: SCC

9 Fluorene



Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

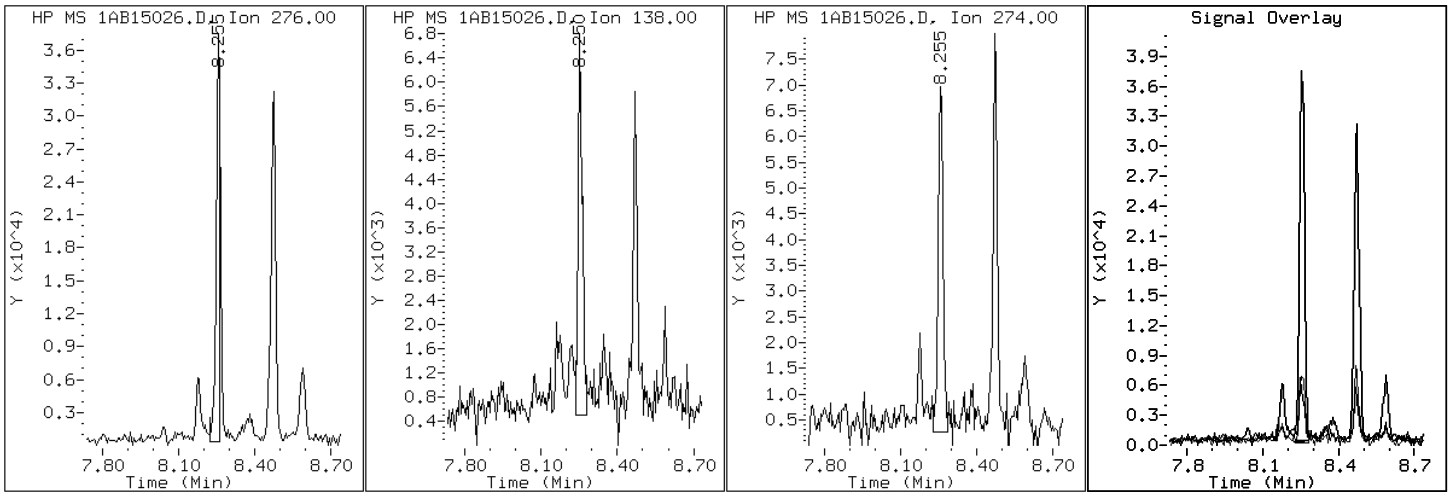
Client ID: CV0005B-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a

Operator: SCC

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



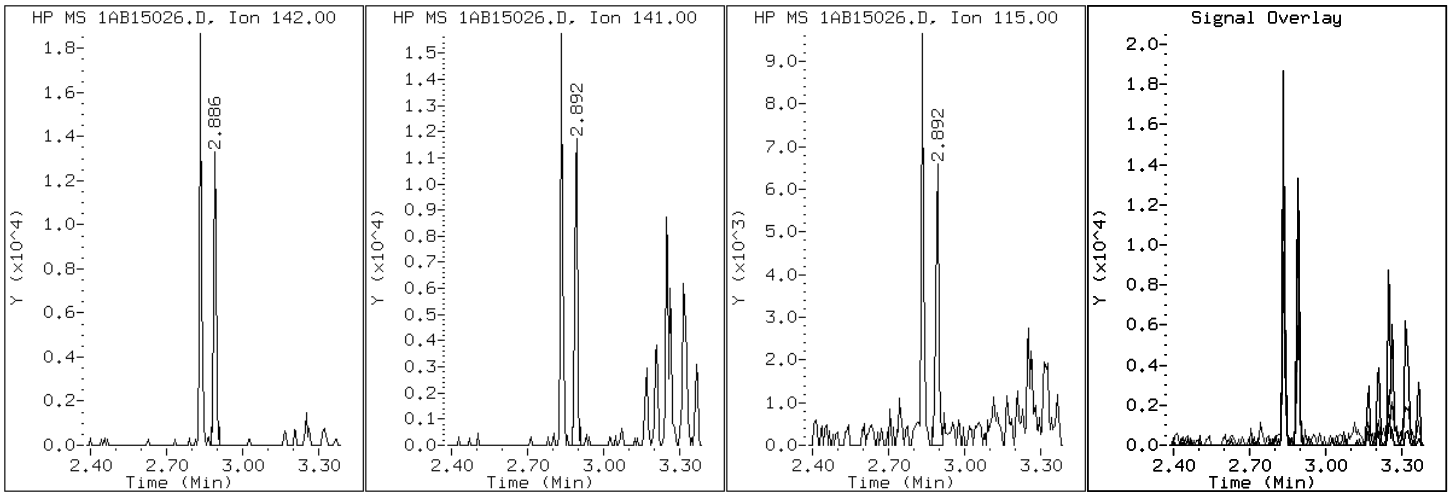
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a Operator: SCC

4 1-Methylnaphthalene



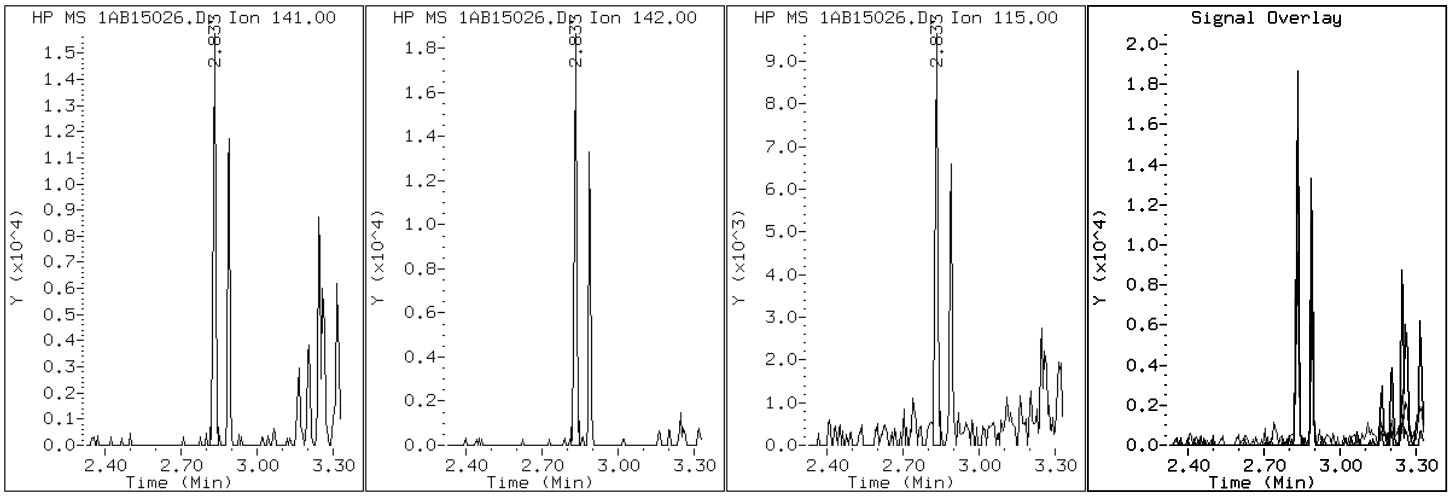
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

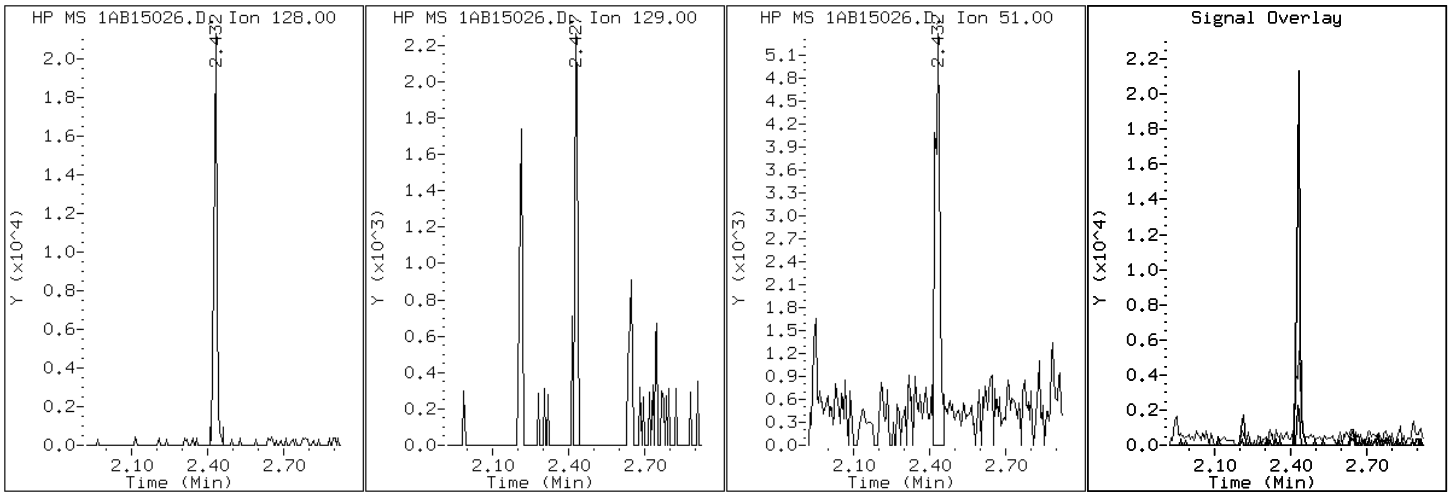
Client ID: CV0005B-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

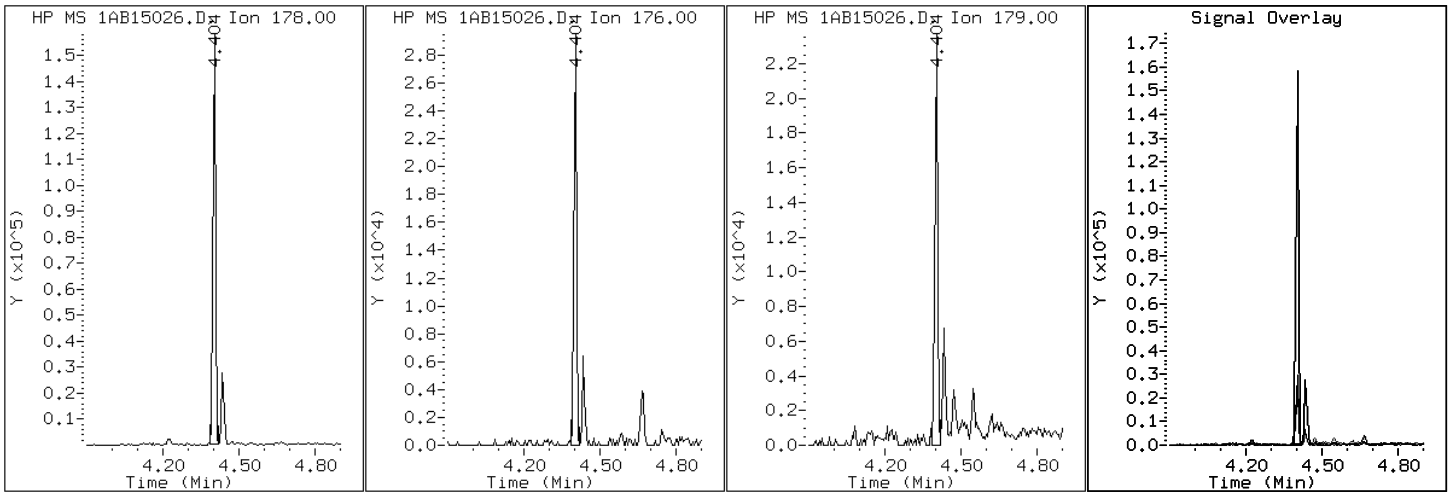
Client ID: CV0005B-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a

Operator: SCC

11 Phenanthrene



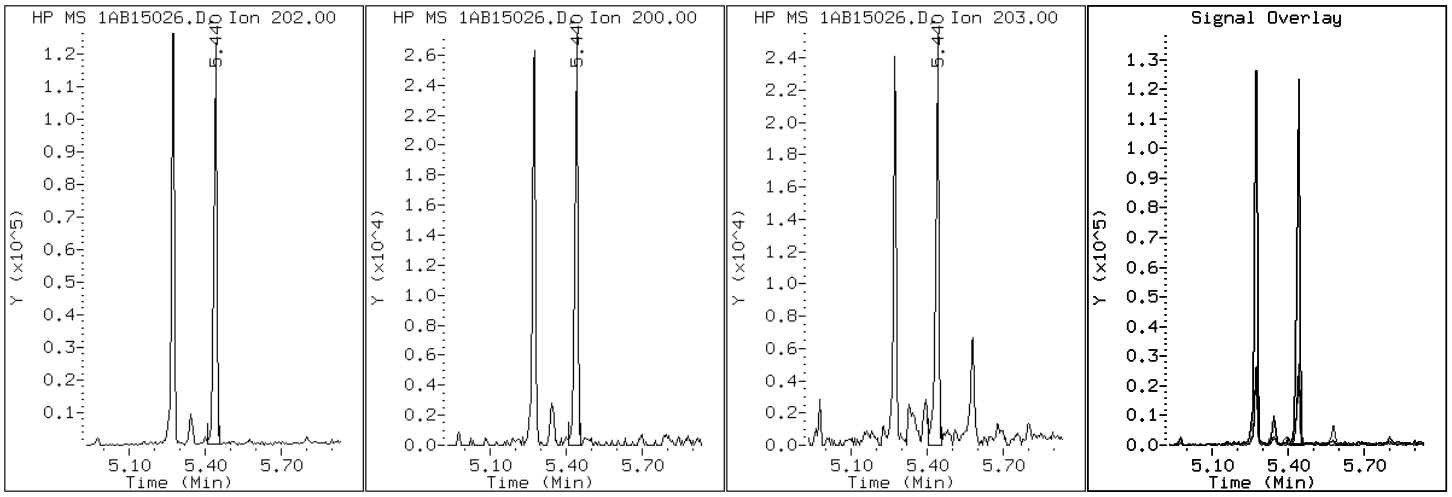
Data File: 1AB15026.D

Date: 15-FEB-2013 20:24

Client ID: CV0005B-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-2-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15026.D
Inj. Date and Time: 15-FEB-2013 20:24
Instrument ID: BSMA5973.i
Client ID: CV0005B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

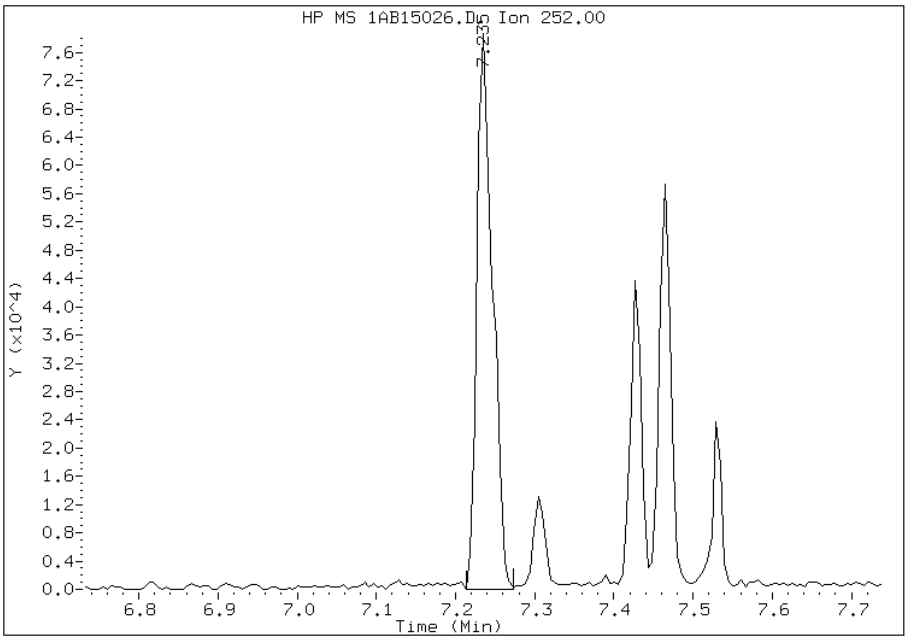
Processing Integration Results

RT: 7.23

Response: 106259

Amount: 4

Conc: 390



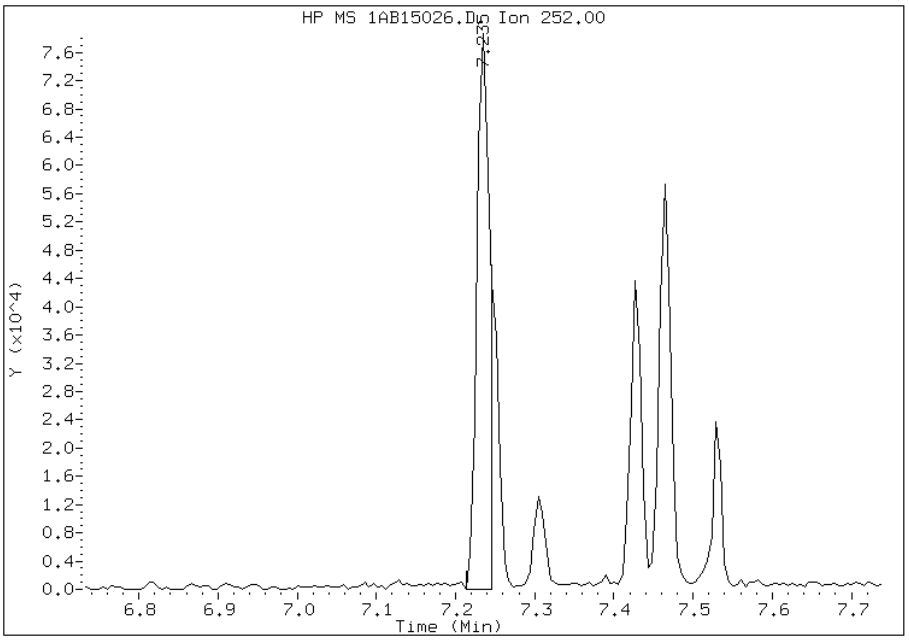
Manual Integration Results

RT: 7.23

Response: 87422

Amount: 4

Conc: 321



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15026.D
Inj. Date and Time: 15-FEB-2013 20:24
Instrument ID: BSMA5973.i
Client ID: CV0005B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

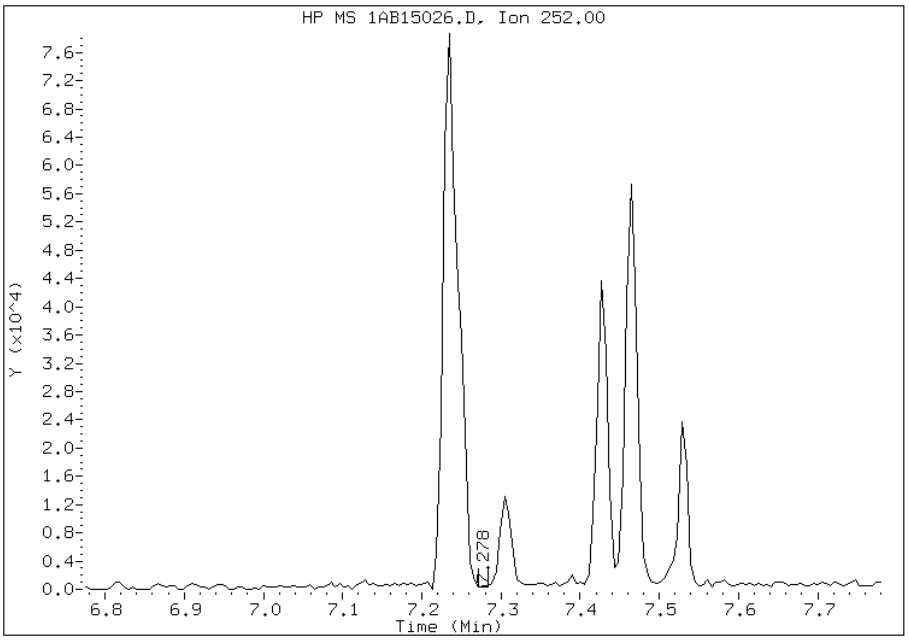
Processing Integration Results

RT: 7.28

Response: 61

Amount: 0

Conc: 0



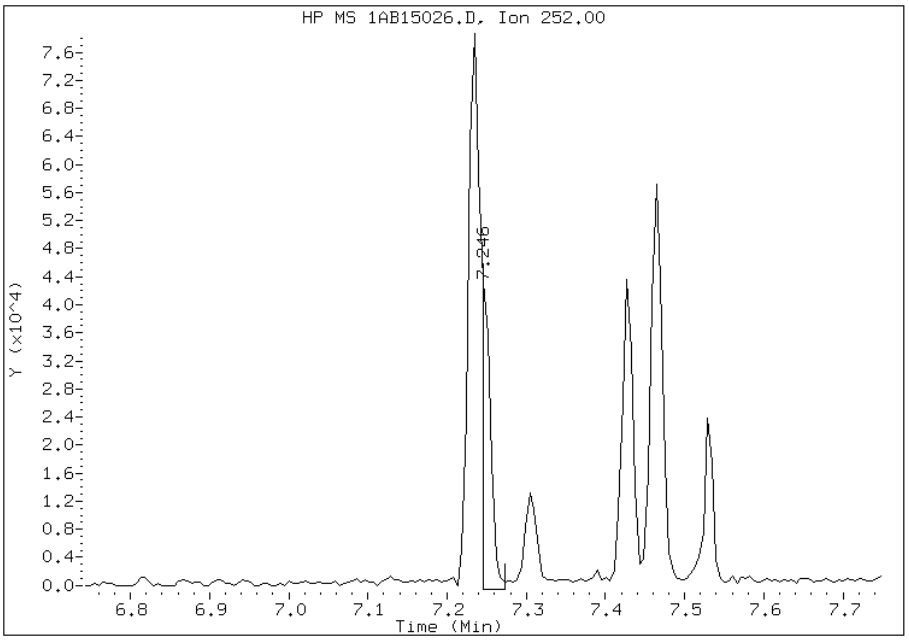
Manual Integration Results

RT: 7.25

Response: 33824

Amount: 1

Conc: 119



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15026.D
Inj. Date and Time: 15-FEB-2013 20:24
Instrument ID: BSMA5973.i
Client ID: CV0005B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

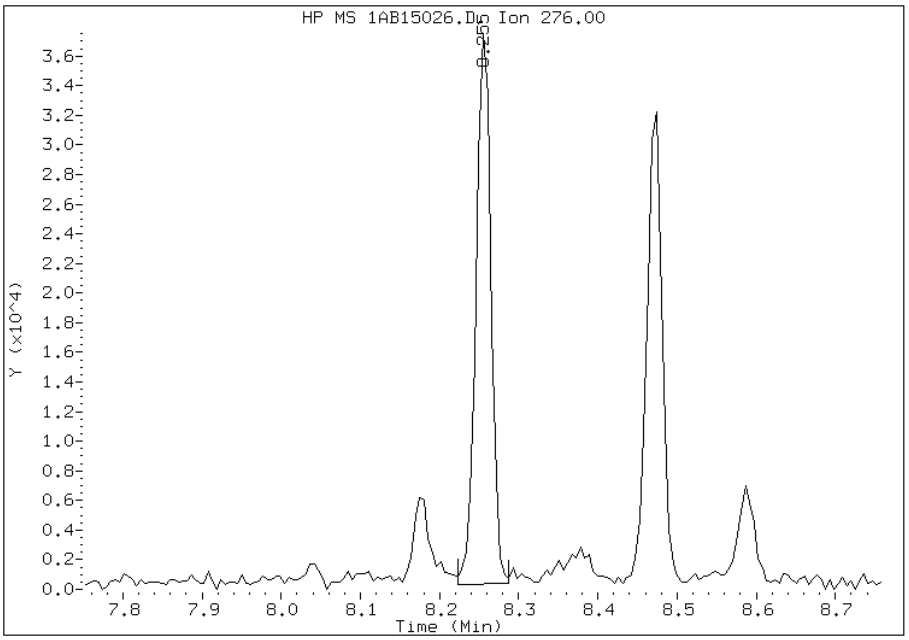
Processing Integration Results

RT: 8.26

Response: 48459

Amount: 3

Conc: 237



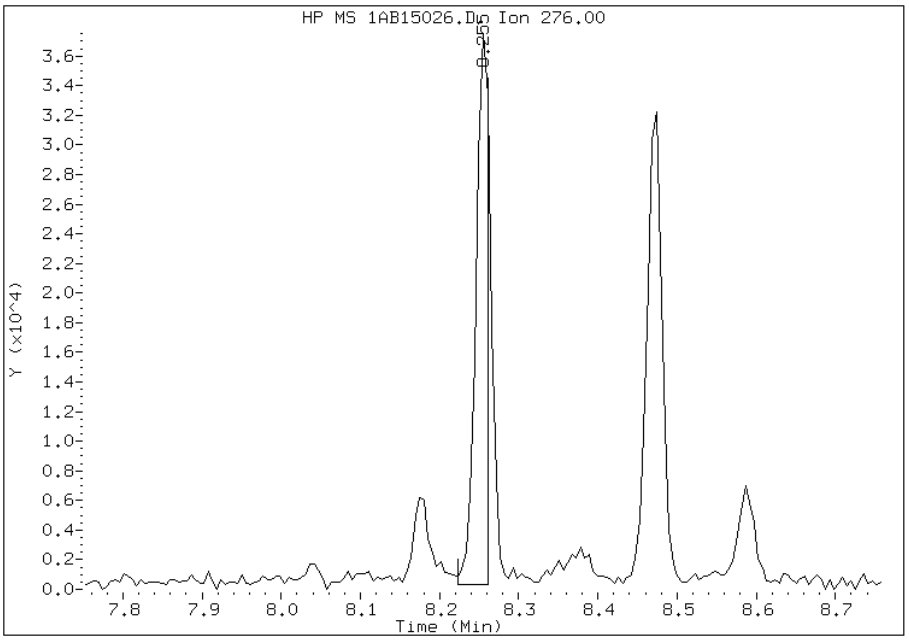
Manual Integration Results

RT: 8.26

Response: 39785

Amount: 2

Conc: 195



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005B-CSD | Lab Sample ID: 680-87318-3

Matrix: Solid | Lab File ID: 1AB15027.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 10:19

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.36(g) | Date Analyzed: 02/15/2013 20:39

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

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

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	25	J	53	6.6
120-12-7	Anthracene	86		11	5.6
56-55-3	Benzo[a]anthracene	270		11	5.2
50-32-8	Benzo[a]pyrene	160		14	6.9
205-99-2	Benzo[b]fluoranthene	250		16	8.1
191-24-2	Benzo[g,h,i]perylene	140		26	5.8
207-08-9	Benzo[k]fluoranthene	120		11	4.8
218-01-9	Chrysene	240		12	6.0
53-70-3	Dibenz(a,h)anthracene	51		26	5.4
206-44-0	Fluoranthene	380		26	5.3
86-73-7	Fluorene	18	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	150		26	9.4
90-12-0	1-Methylnaphthalene	35	J	53	5.8
91-57-6	2-Methylnaphthalene	42	J	53	9.4
91-20-3	Naphthalene	40	J	53	5.8
85-01-8	Phenanthrene	290		11	5.2
129-00-0	Pyrene	300		26	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15027.D
Lab Smp Id: 680-87318-A-3-A Client Smp ID: CV0005B-CSD
Inj Date : 15-FEB-2013 20:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-3-a
Misc Info : 680-87318-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.360	Weight Extracted
M	26.147	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.419	2.415	(1.000)	823872	40.0000	
* 6 Acenaphthene-d10	164	3.445	3.441	(1.000)	565679	40.0000	
* 10 Phenanthrene-d10	188	4.390	4.386	(1.000)	834068	40.0000	
$ 14 o-Terphenyl	230	4.668	4.664	(1.063)	88464	7.29934	643.4597
* 18 Chrysene-d12	240	6.420	6.411	(1.000)	628364	40.0000	
* 23 Perylene-d12	264	7.521	7.501	(1.000)	821612	40.0000	
2 Naphthalene	128	2.430	2.426	(1.004)	8977	0.44891	39.5728
3 2-Methylnaphthalene	141	2.830	2.832	(1.170)	5063	0.47260	41.6616
4 1-Methylnaphthalene	142	2.889	2.885	(1.194)	4846	0.39960	35.2263
5 Acenaphthylene	152	3.359	3.355	(0.975)	7085	0.28365	25.0049
9 Fluorene	166	3.771	3.772	(1.095)	3513	0.20666	18.2177
11 Phenanthrene	178	4.406	4.402	(1.004)	73897	3.24485	286.0438
12 Anthracene	178	4.438	4.434	(1.011)	22530	0.97032	85.5370
13 Carbazole	167	4.593	4.589	(1.046)	8537	0.42893	37.8113

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.272	5.262	(1.201)	98552	4.36483	384.7737
16 Pyrene	202	5.437	5.433	(0.847)	77214	3.40249	299.9405
17 Benzo(a)anthracene	228	6.410	6.395	(0.998)	56712	3.02269	266.4596
19 Chrysene	228	6.431	6.427	(1.002)	50298	2.75035	242.4523
20 Benzo(b)fluoranthene	252	7.232	7.217	(0.962)	63994	2.79067	246.0066(M)
21 Benzo(k)fluoranthene	252	7.243	7.239	(0.963)	32495	1.35534	119.4775(M)
22 Benzo(a)pyrene	252	7.462	7.452	(0.992)	39733	1.82463	160.8464
24 Indeno(1,2,3-cd)pyrene	276	8.258	8.238	(1.098)	28711	1.66974	147.1924(M)
25 Dibenzo(a,h)anthracene	278	8.263	8.254	(1.099)	9899	0.57586	50.7638
26 Benzo(g,h,i)perylene	276	8.466	8.446	(1.126)	27355	1.53560	135.3677

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AB15027.D

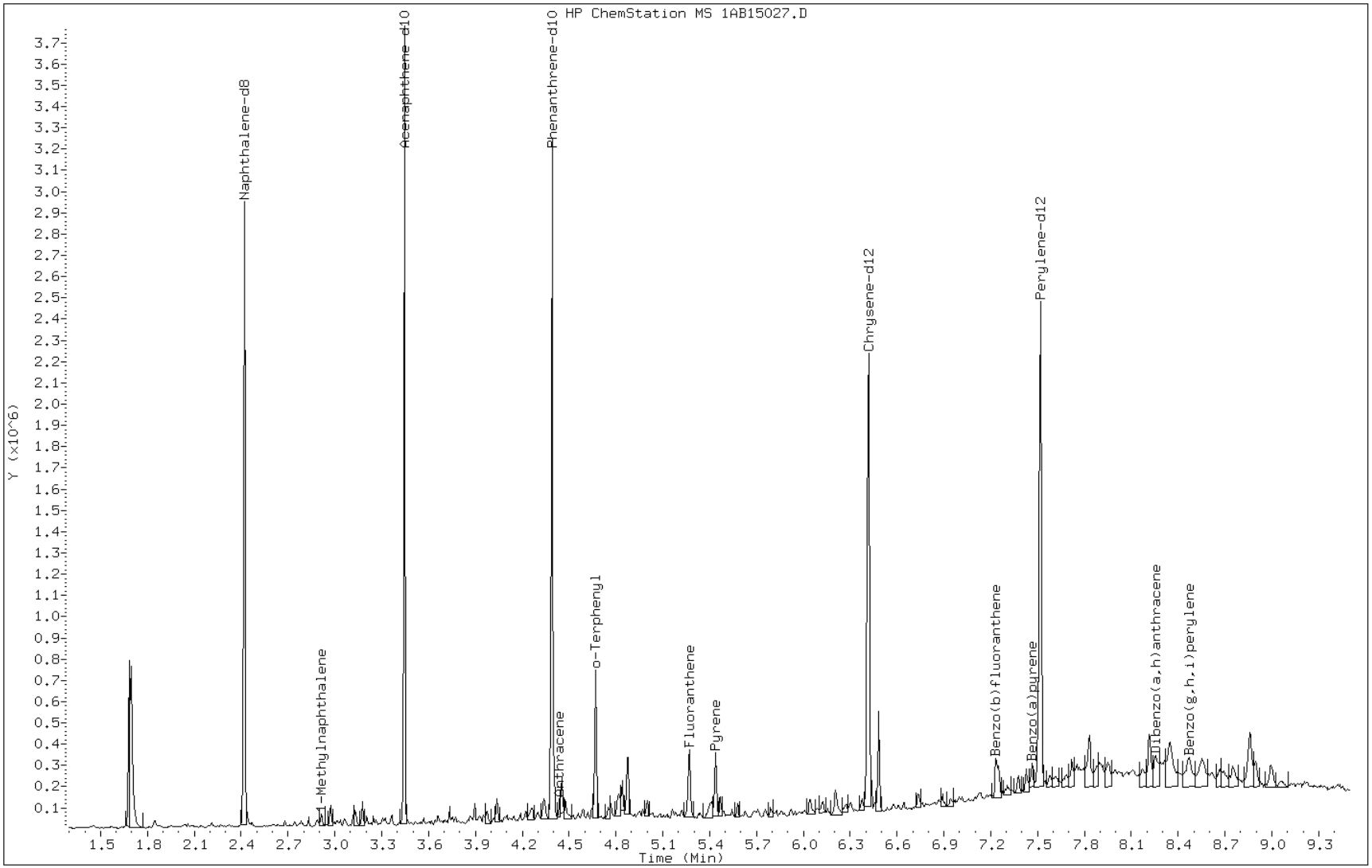
Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD

Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a

Operator: SCC



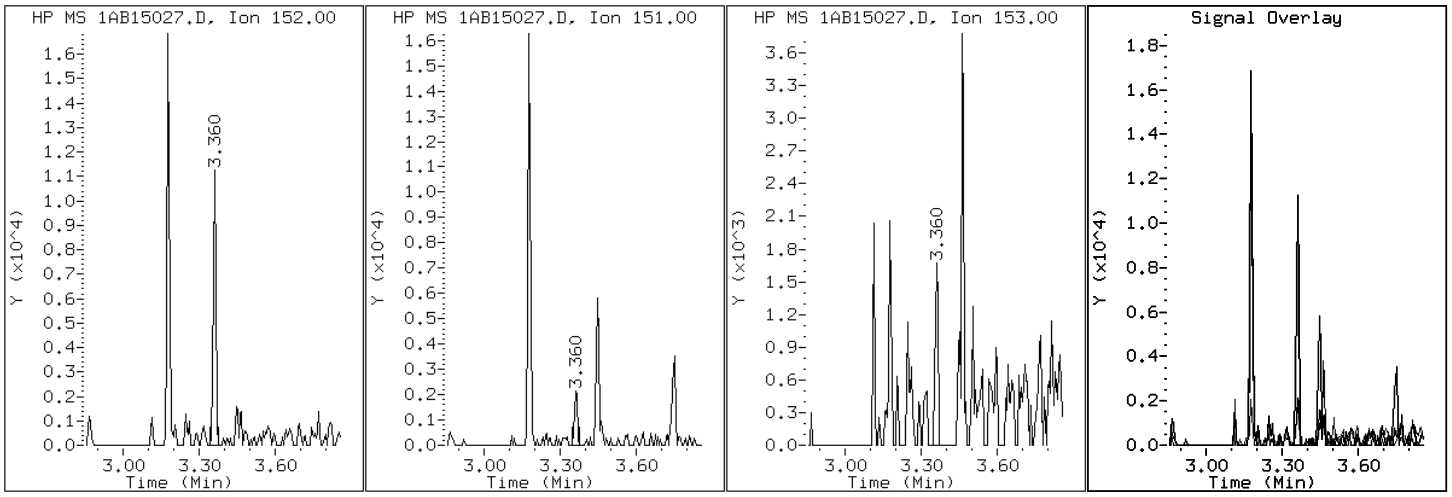
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

5 Acenaphthylene



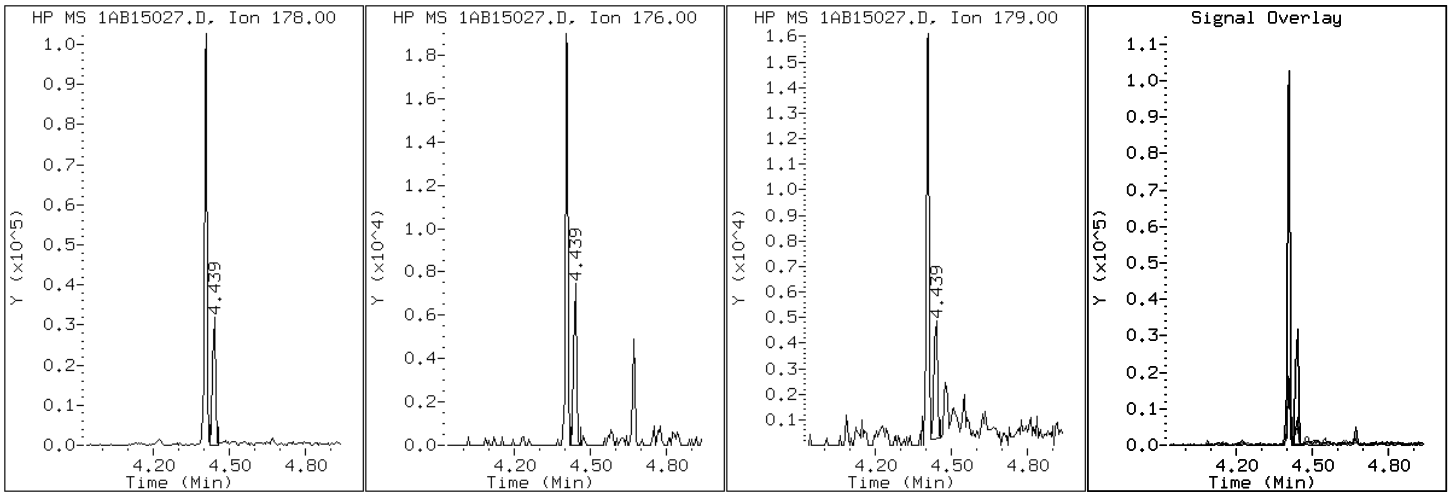
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

12 Anthracene



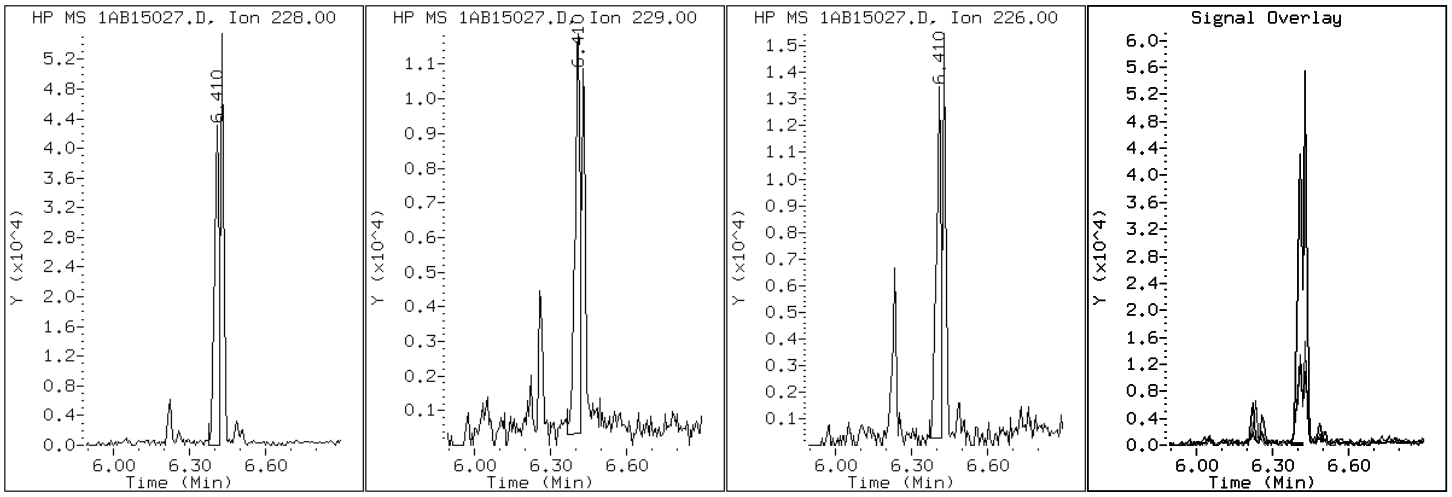
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

17 Benzo(a)anthracene



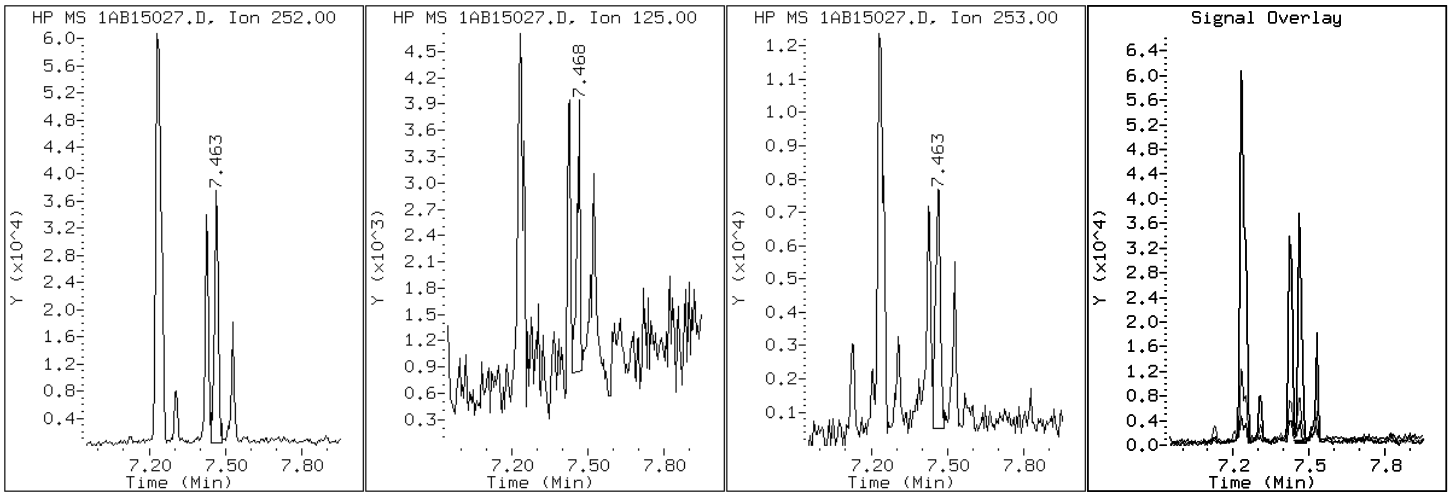
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

22 Benzo(a)pyrene



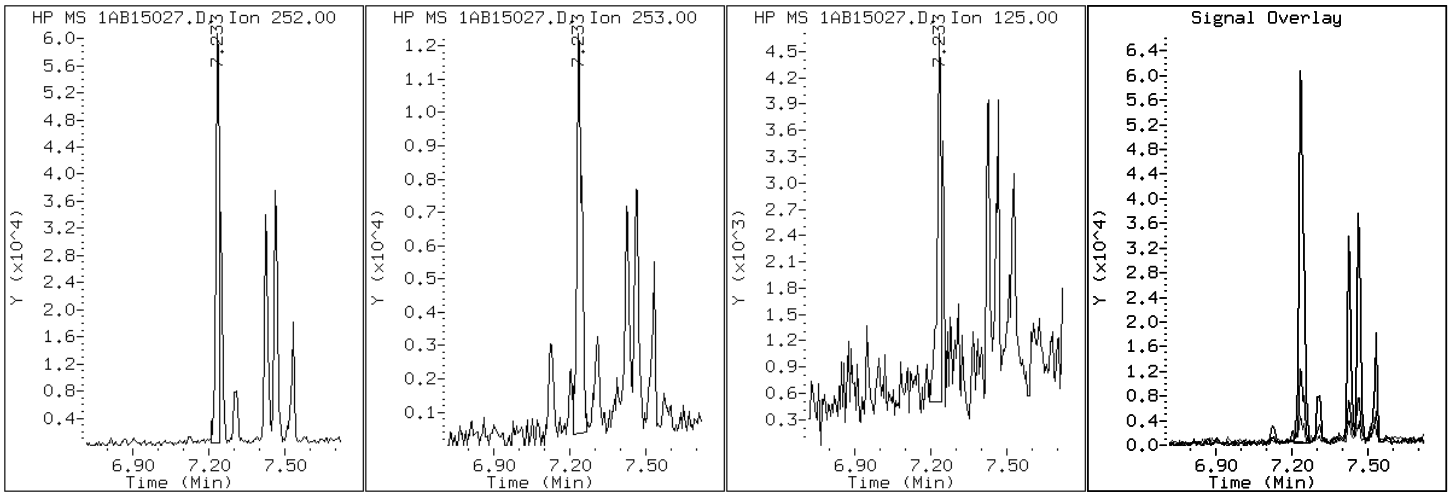
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

20 Benzo(b)fluoranthene



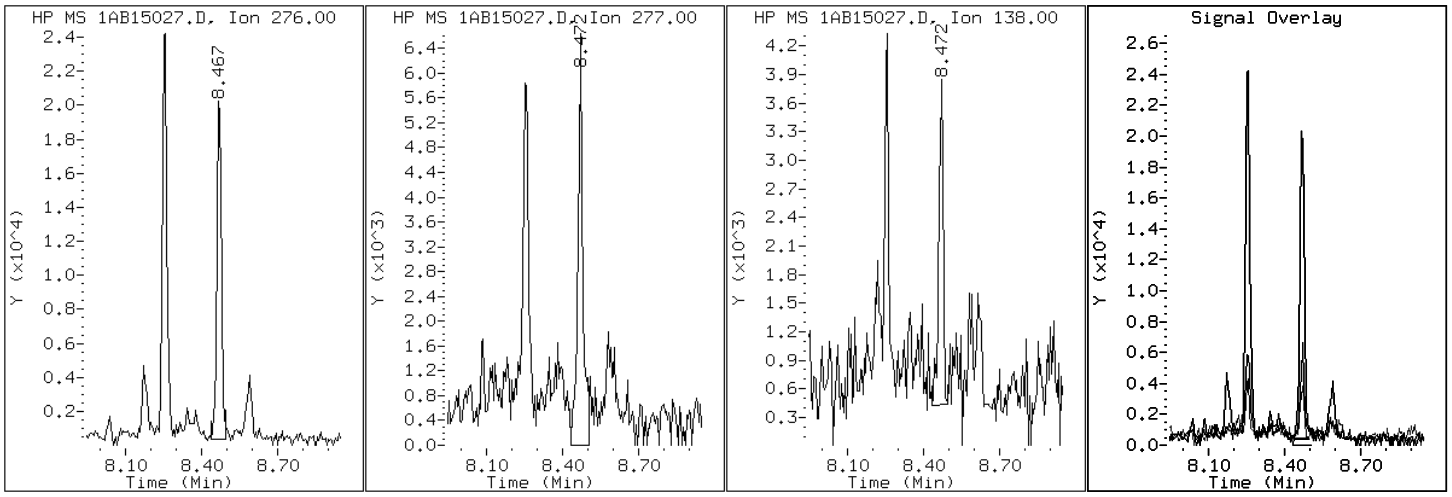
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

26 Benzo(g,h,i)perylene



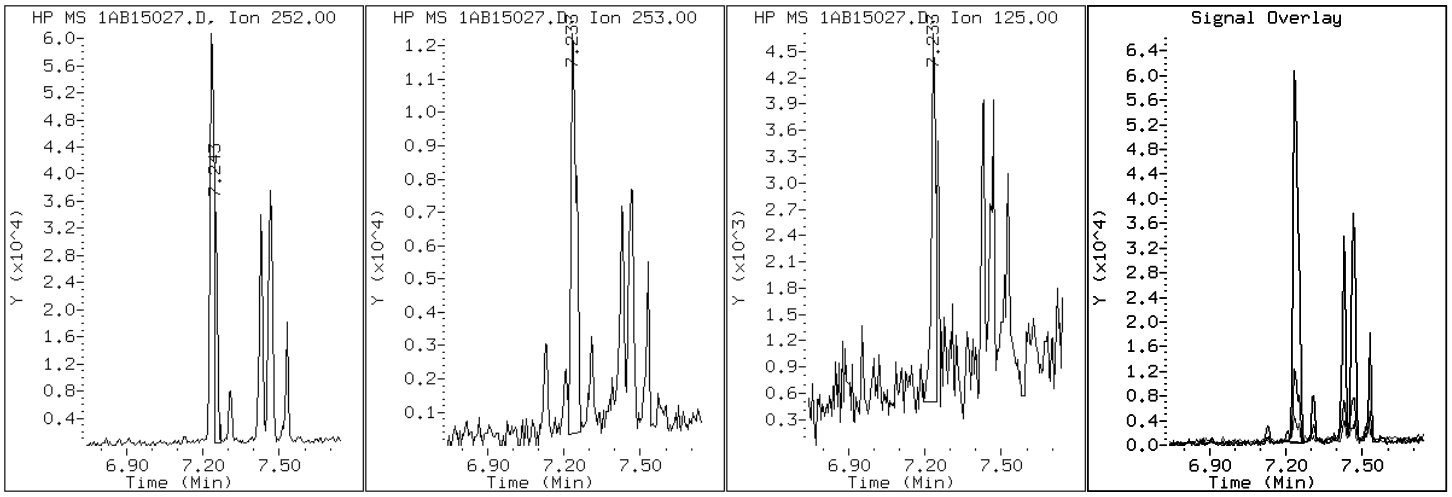
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

21 Benzo(k)fluoranthene



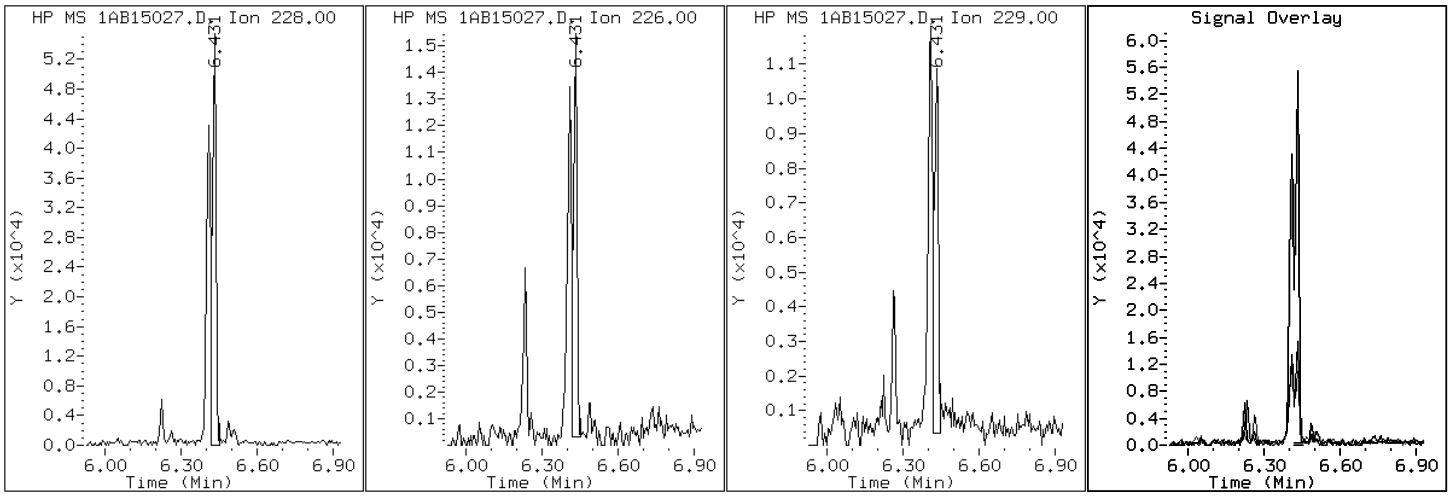
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

19 Chrysene



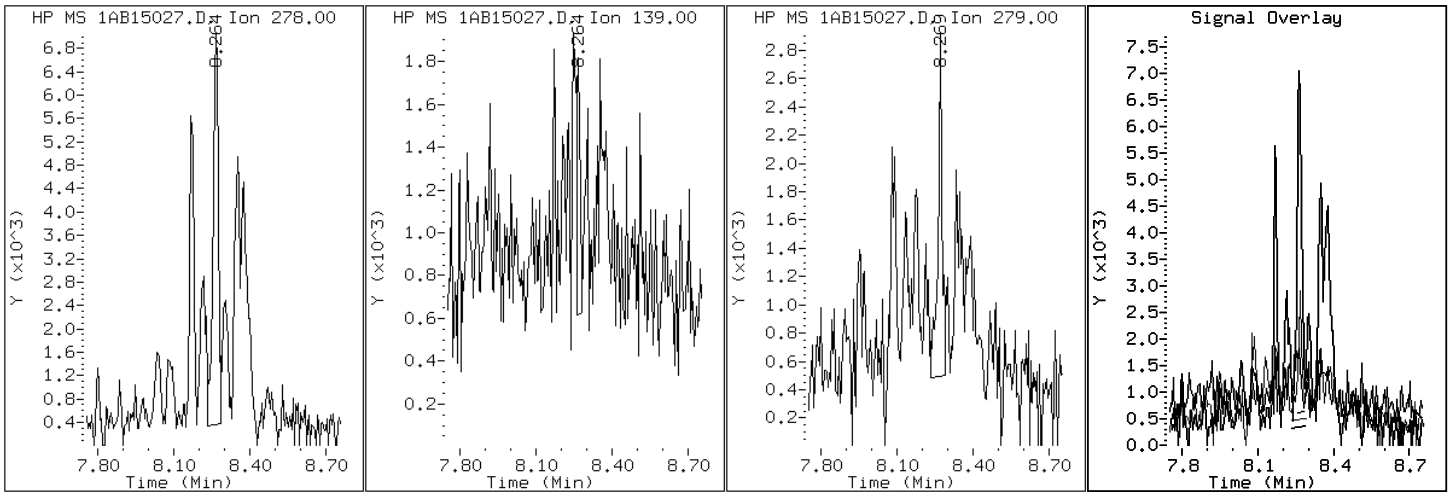
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

25 Dibenzo(a,h)anthracene



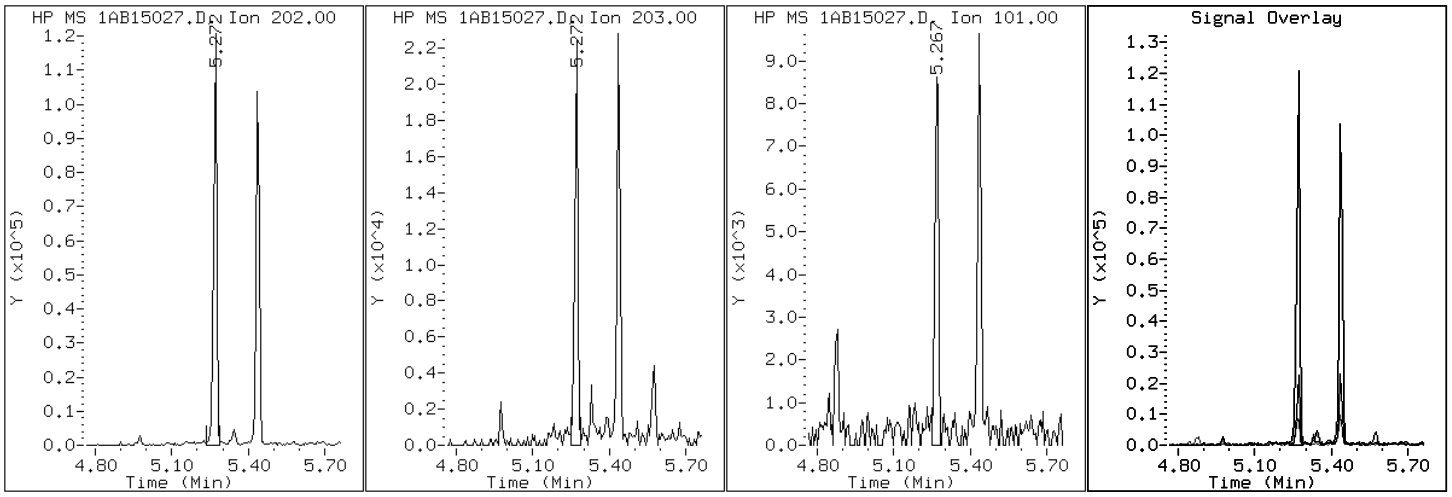
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

15 Fluoranthene



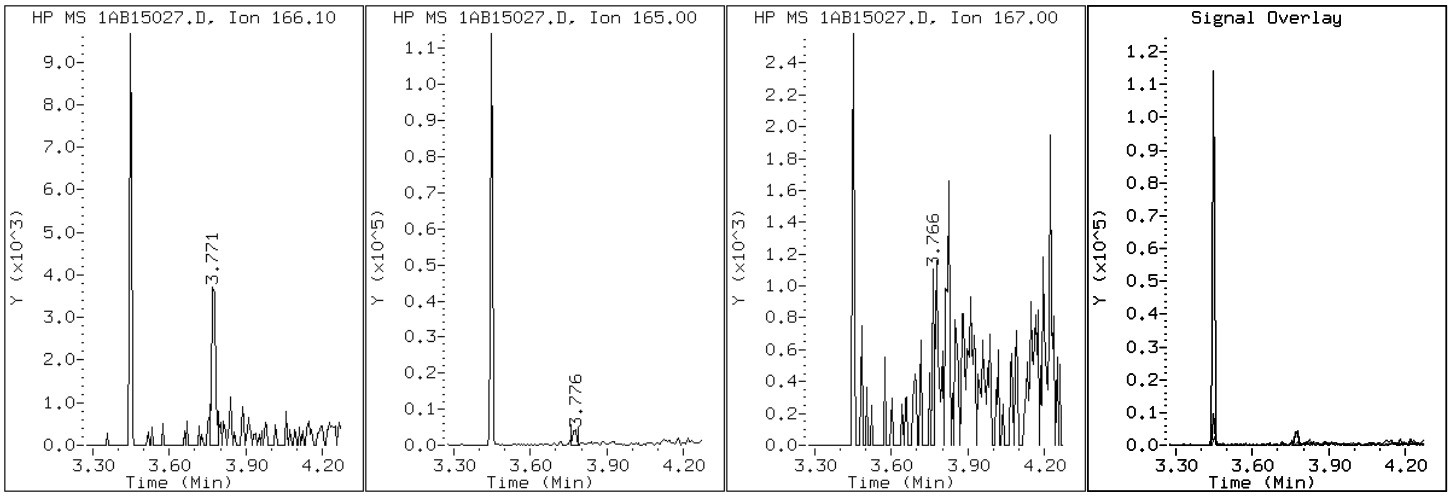
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

9 Fluorene



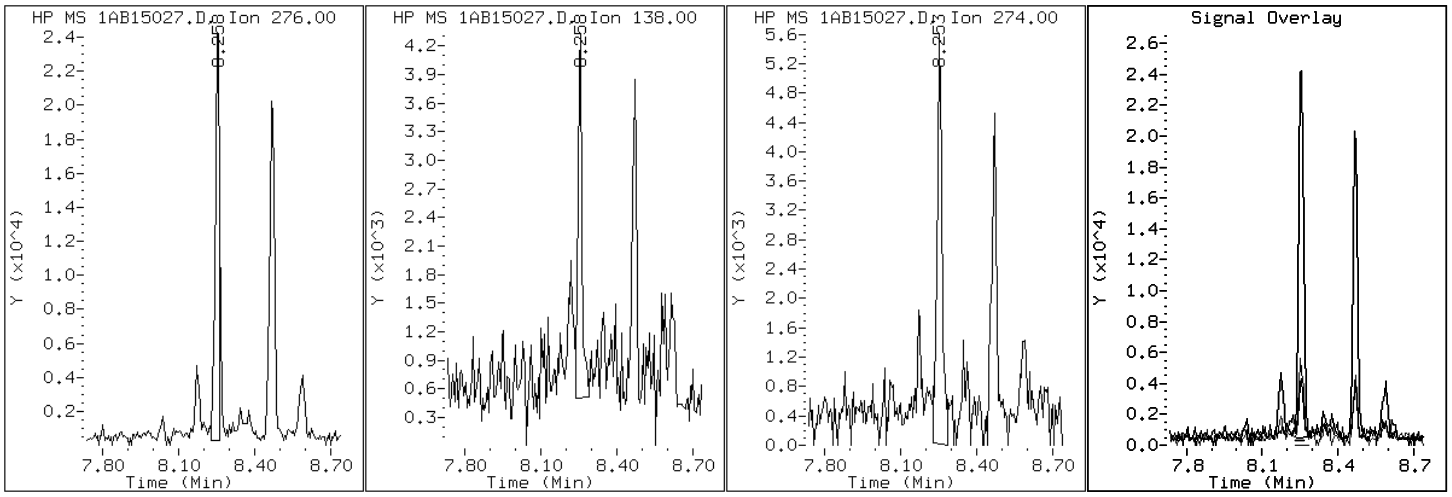
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

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



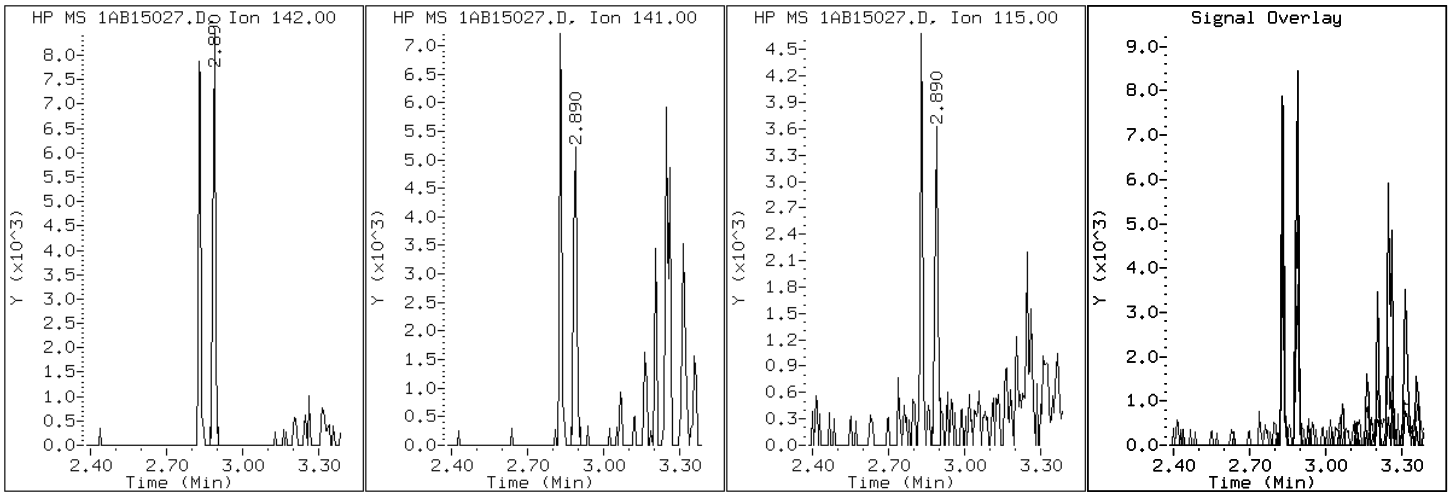
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

4 1-Methylnaphthalene



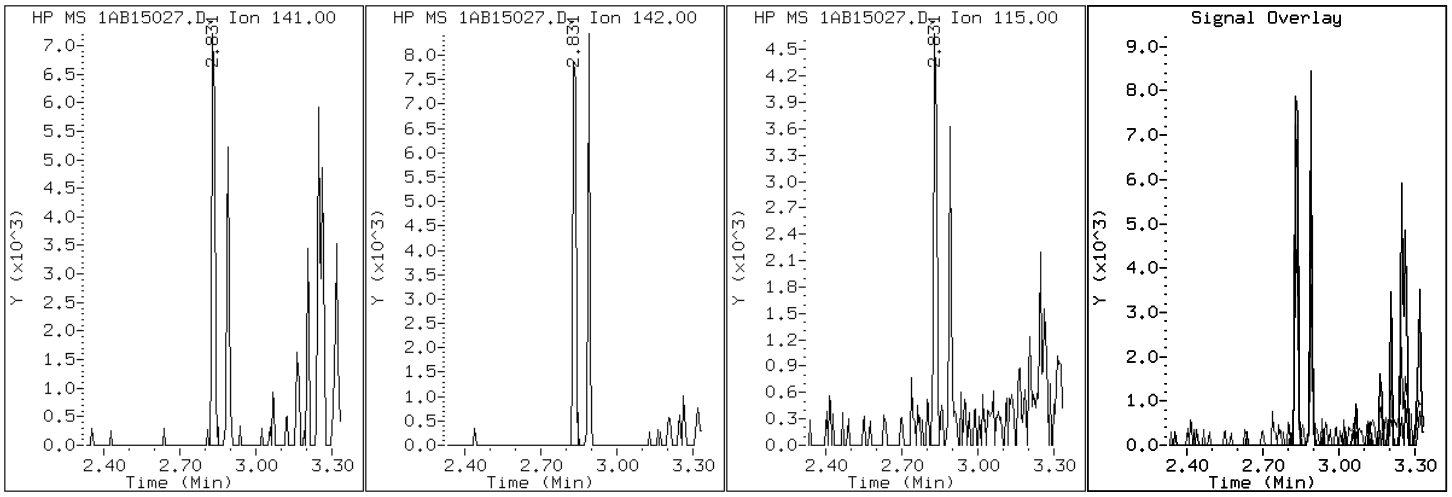
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

3 2-Methylnaphthalene



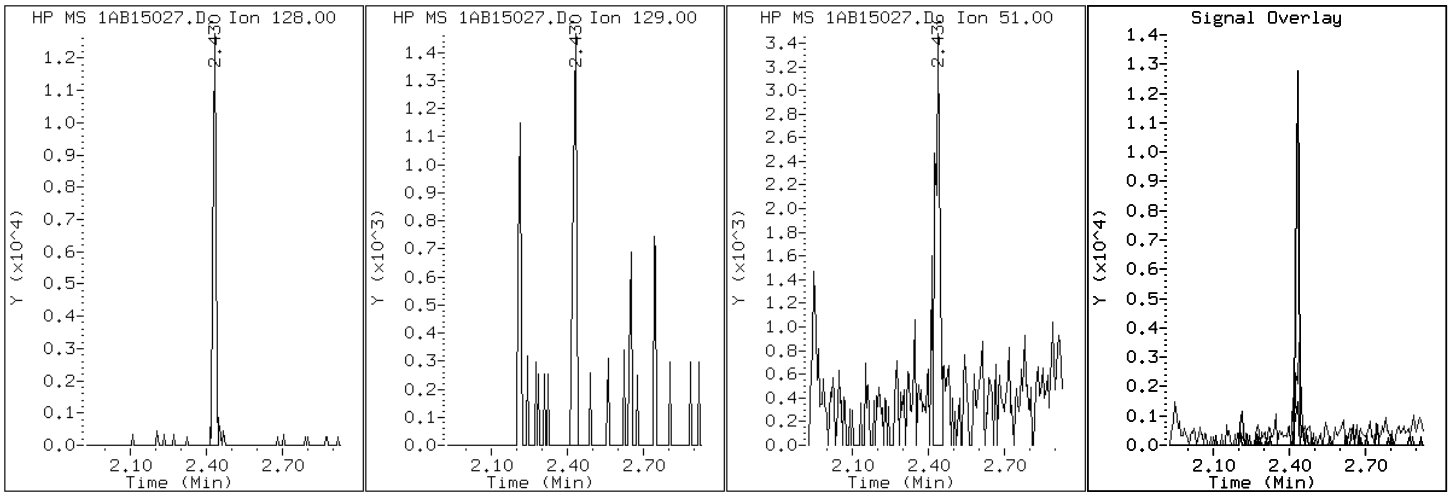
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

2 Naphthalene



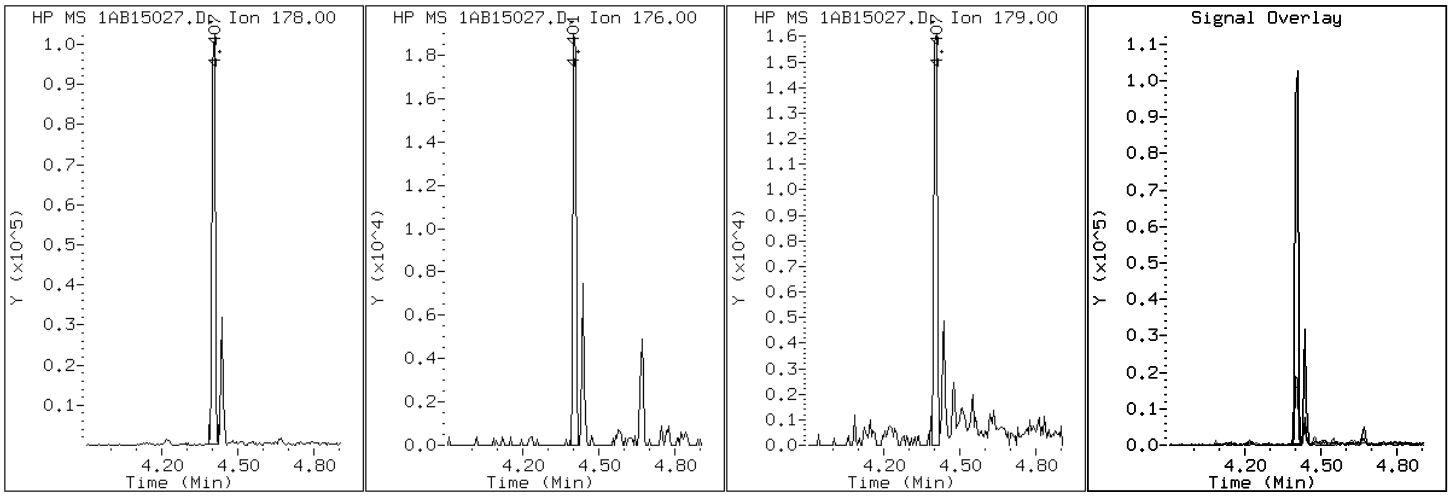
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

11 Phenanthrene



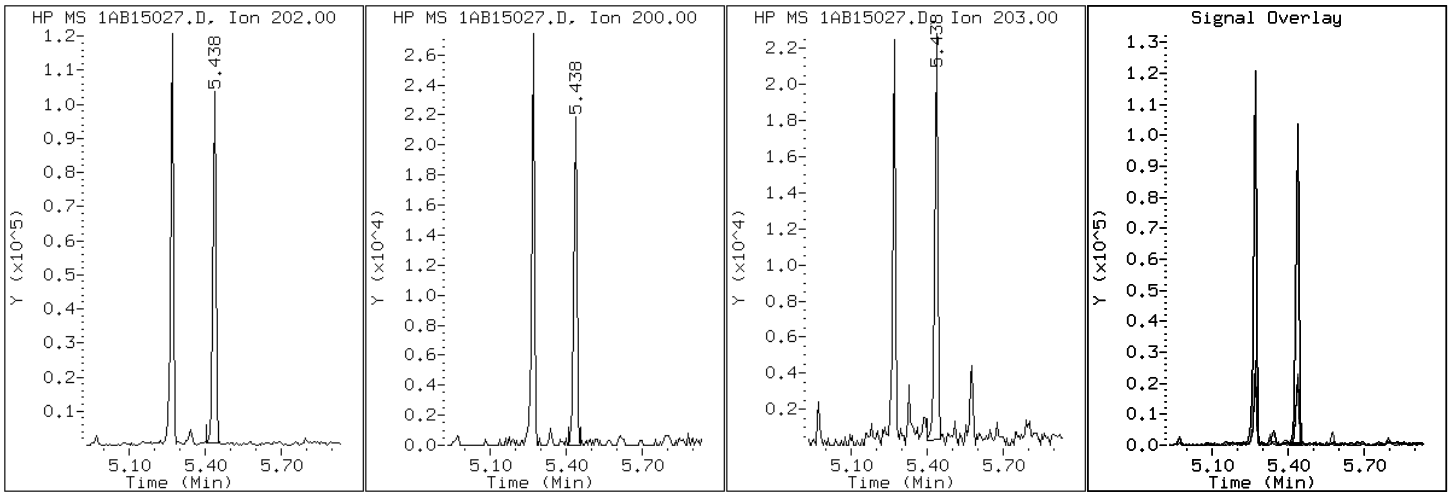
Data File: 1AB15027.D

Date: 15-FEB-2013 20:39

Client ID: CV0005B-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15027.D
Inj. Date and Time: 15-FEB-2013 20:39
Instrument ID: BSMA5973.i
Client ID: CV0005B-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

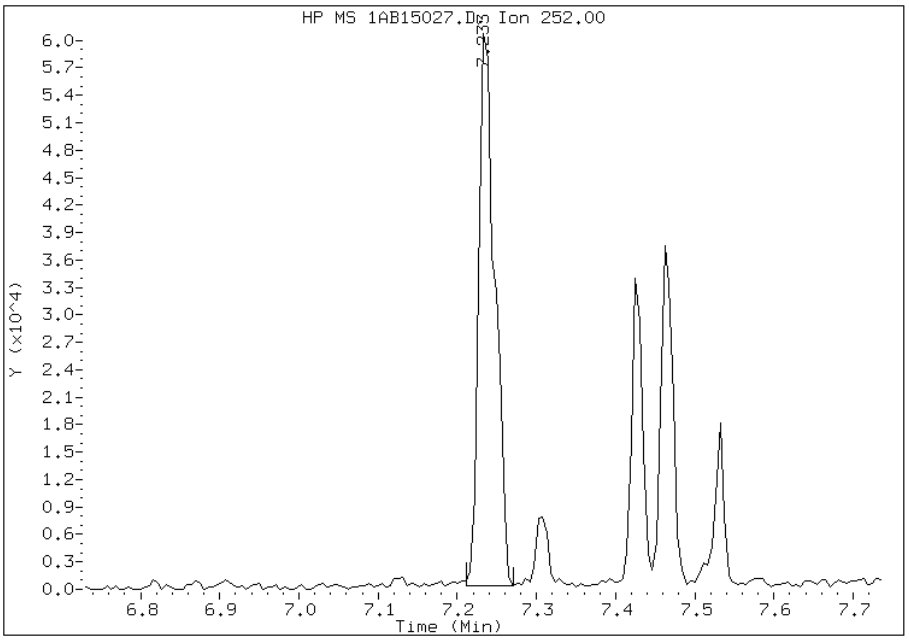
Processing Integration Results

RT: 7.23

Response: 84966

Amount: 4

Conc: 327



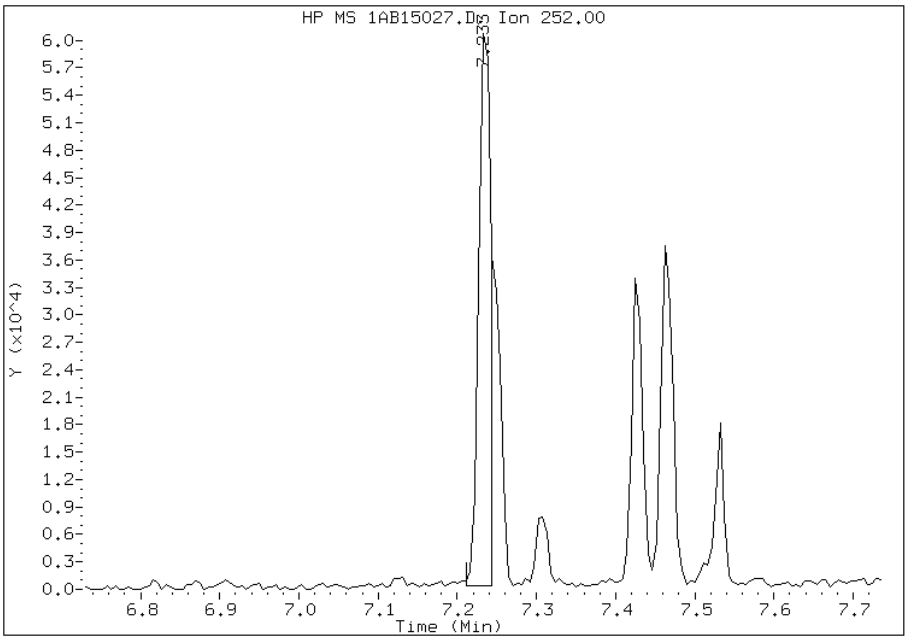
Manual Integration Results

RT: 7.23

Response: 63994

Amount: 3

Conc: 246



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:31
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15027.D
Inj. Date and Time: 15-FEB-2013 20:39
Instrument ID: BSMA5973.i
Client ID: CV0005B-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

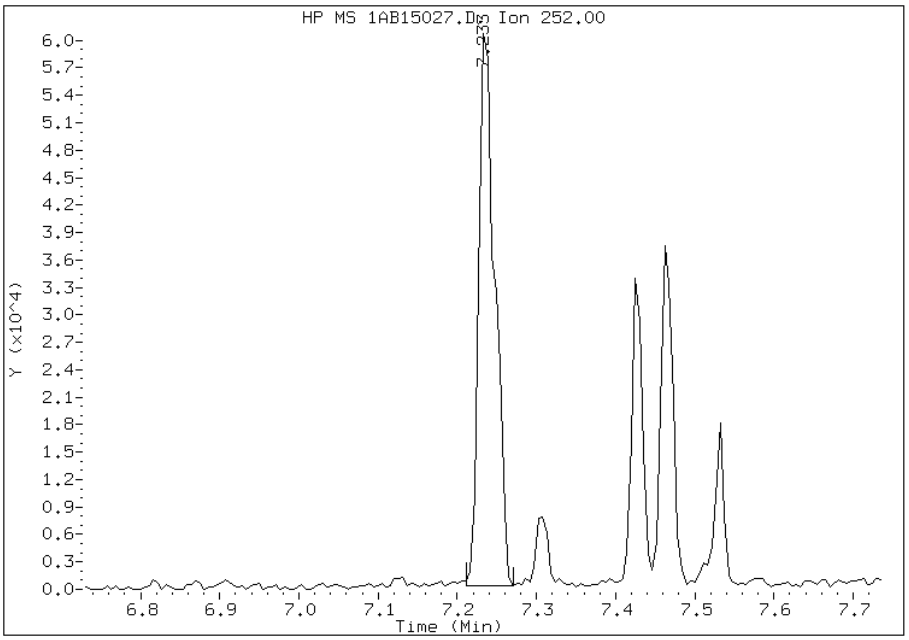
Processing Integration Results

RT: 7.23

Response: 84973

Amount: 4

Conc: 312



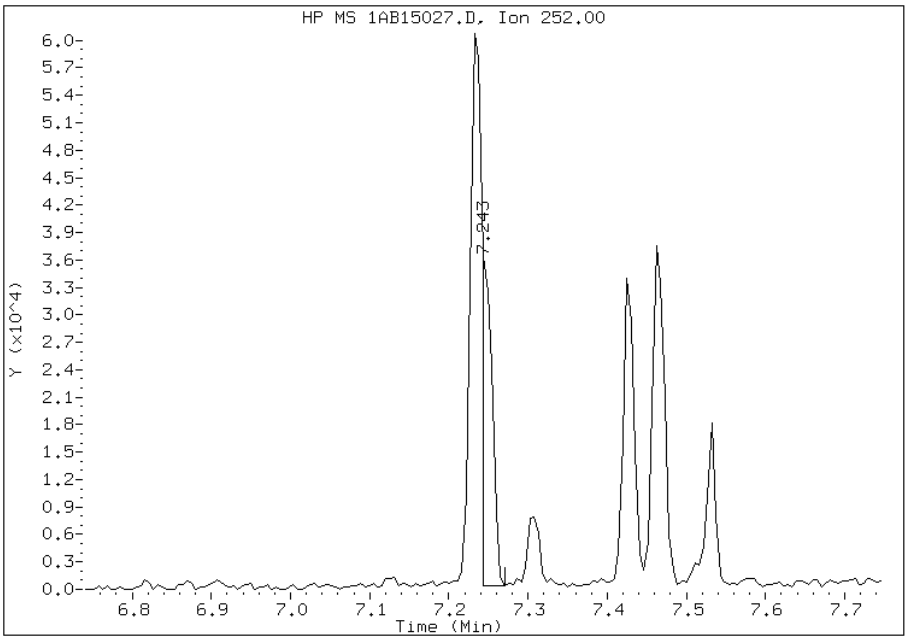
Manual Integration Results

RT: 7.24

Response: 32495

Amount: 1

Conc: 119



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15027.D
Inj. Date and Time: 15-FEB-2013 20:39
Instrument ID: BSMA5973.i
Client ID: CV0005B-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

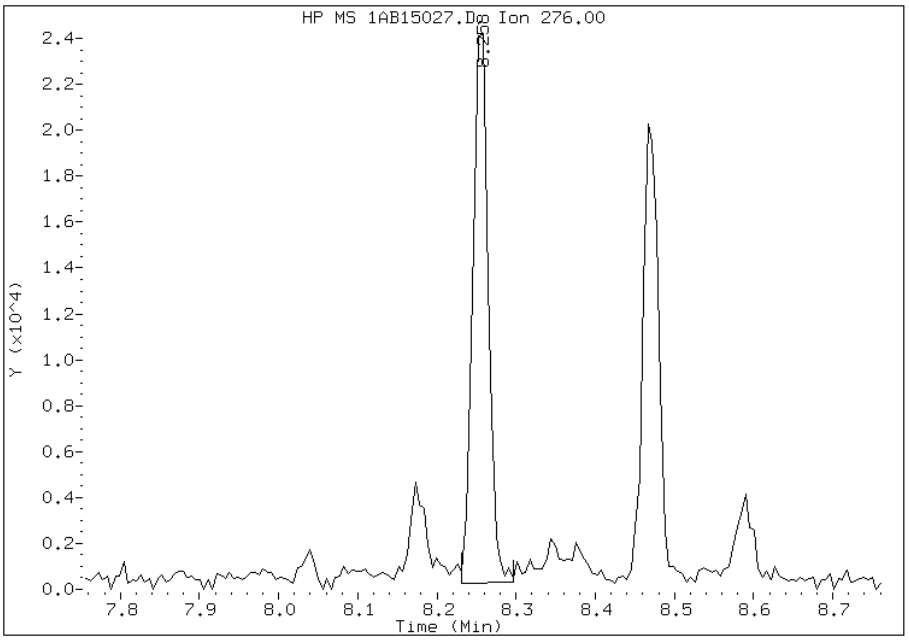
Processing Integration Results

RT: 8.26

Response: 32316

Amount: 2

Conc: 166



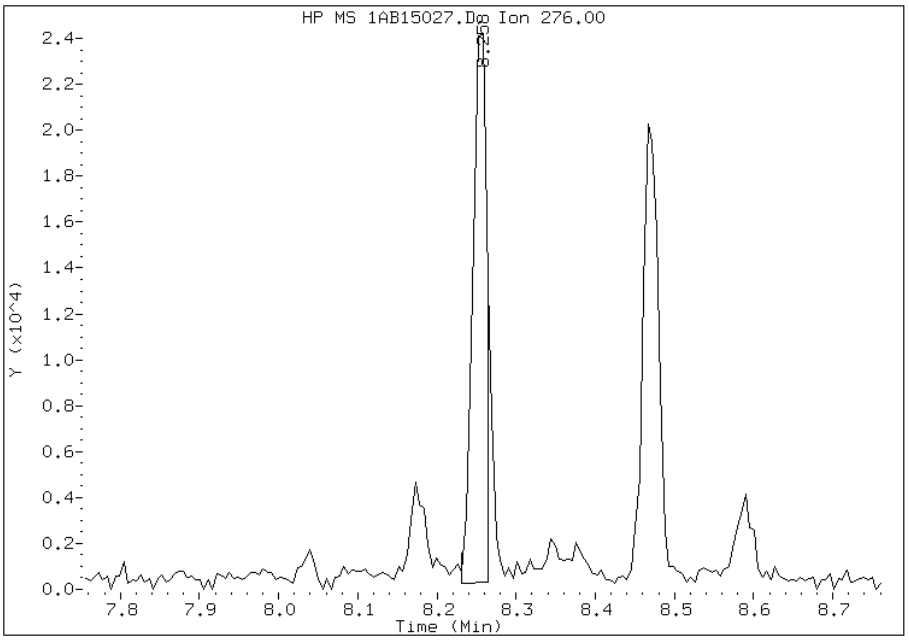
Manual Integration Results

RT: 8.26

Response: 28711

Amount: 2

Conc: 147



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005C-CS | Lab Sample ID: 680-87318-4

Matrix: Solid | Lab File ID: 1CB18007.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 10:23

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.02(g) | Date Analyzed: 02/18/2013 15:23

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

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

% Moisture: 8.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	19	J	43	5.4
120-12-7	Anthracene	16		9.1	4.6
56-55-3	Benzo[a]anthracene	100		8.7	4.2
50-32-8	Benzo[a]pyrene	93		11	5.6
205-99-2	Benzo[b]fluoranthene	150		13	6.6
191-24-2	Benzo[g,h,i]perylene	79		22	4.8
207-08-9	Benzo[k]fluoranthene	62		8.7	3.9
218-01-9	Chrysene	100		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	18	J	22	4.5
206-44-0	Fluoranthene	160		22	4.3
86-73-7	Fluorene	4.6	J	22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	58		22	7.7
90-12-0	1-Methylnaphthalene	35	J	43	4.8
91-57-6	2-Methylnaphthalene	37	J	43	7.7
91-20-3	Naphthalene	40	J	43	4.8
85-01-8	Phenanthrene	73		8.7	4.2
129-00-0	Pyrene	140		22	4.0

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18007.D
Lab Smp Id: 680-87318-A-4-A Client Smp ID: CV0005C-CS
Inj Date : 18-FEB-2013 15:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-A-4-A
Misc Info : 680-87318-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\a-bFASTPAHi-m.m
Meth Date : 18-Feb-2013 14:24 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	15.020	Weight Extracted
M	8.009	% 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)	1873381	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1502626	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2798072	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	282916	6.90070	499.4320
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	3194811	40.0000	
* 23 Perylene-d12	264	9.021	9.027	(1.000)	2919384	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	27627	0.55652	40.2778
3 2-Methylnaphthalene	142	4.251	4.257	(1.114)	16676	0.51663	37.3905
4 1-Methylnaphthalene	142	4.316	4.315	(1.131)	14174	0.48282	34.9434
5 Acenaphthylene	152	4.816	4.815	(0.982)	15951	0.26682	19.3112
9 Fluorene	166	5.245	5.245	(1.070)	3046	0.06329	4.5804(Q)
11 Phenanthrene	178	5.868	5.874	(1.002)	84125	1.00724	72.8978
12 Anthracene	178	5.904	5.909	(1.008)	16393	0.21785	15.7666
13 Carbazole	167	6.010	6.015	(1.026)	11754	0.17983	13.0147

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.710	6.715	(1.146)	181912	2.22901	161.3224
16 Pyrene	202	6.880	6.880	(0.882)	169153	1.98878	143.9361
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	122272	1.38786	100.4448
19 Chrysene	228	7.821	7.827	(1.002)	126184	1.38658	100.3522
20 Benzo(b)fluoranthene	252	8.656	8.662	(0.960)	153188	2.14028	154.9009
21 Benzo(k)fluoranthene	252	8.680	8.686	(0.962)	67510	0.85618	61.9649(Q)
22 Benzo(a)pyrene	252	8.962	8.968	(0.993)	87159	1.27975	92.6204
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.250	(1.134)	52632	0.80459	58.2313(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.268	(1.136)	15068	0.24426	17.6783
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.176)	72781	1.09530	79.2714

QC Flag Legend

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

Data File: 1CB18007.D

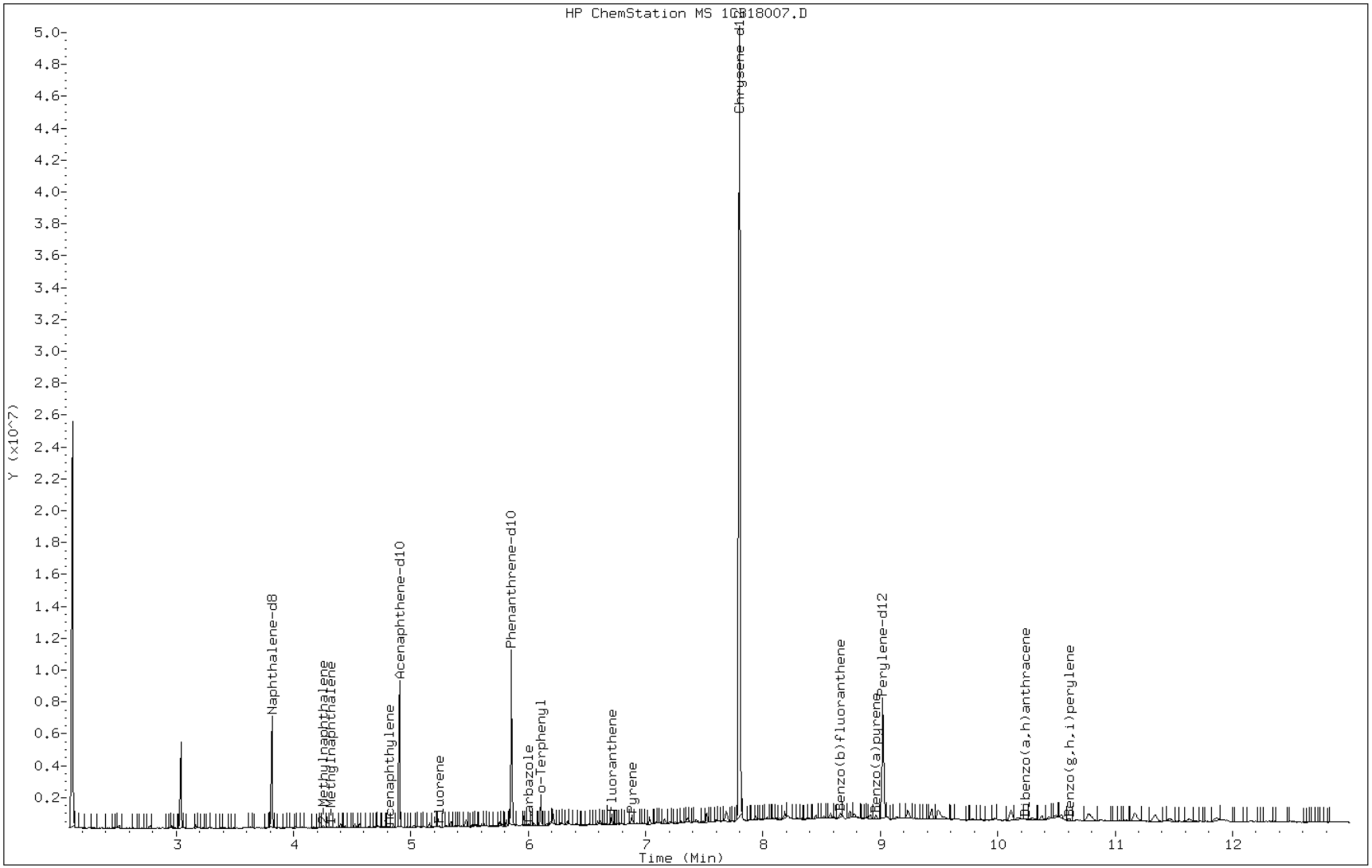
Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A

Operator: SCC



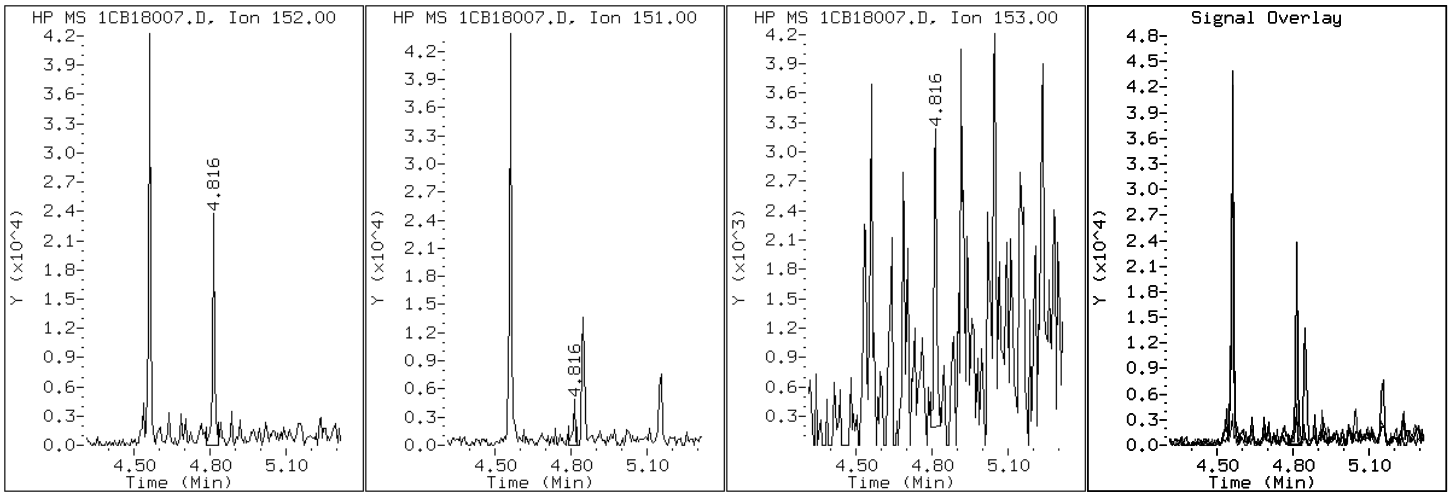
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

5 Acenaphthylene



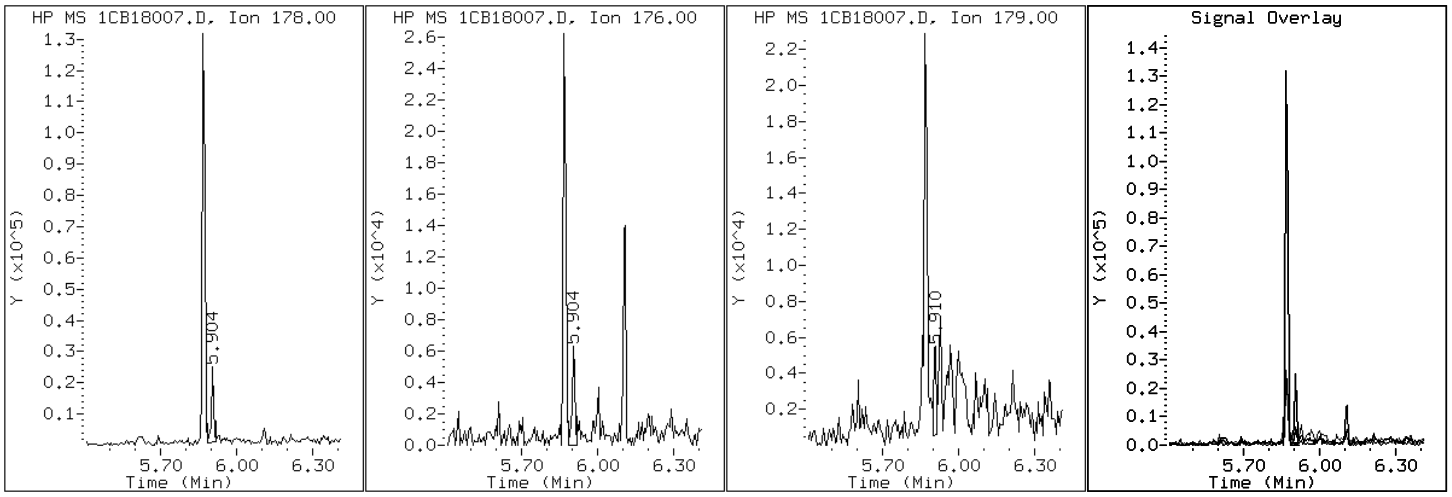
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

12 Anthracene



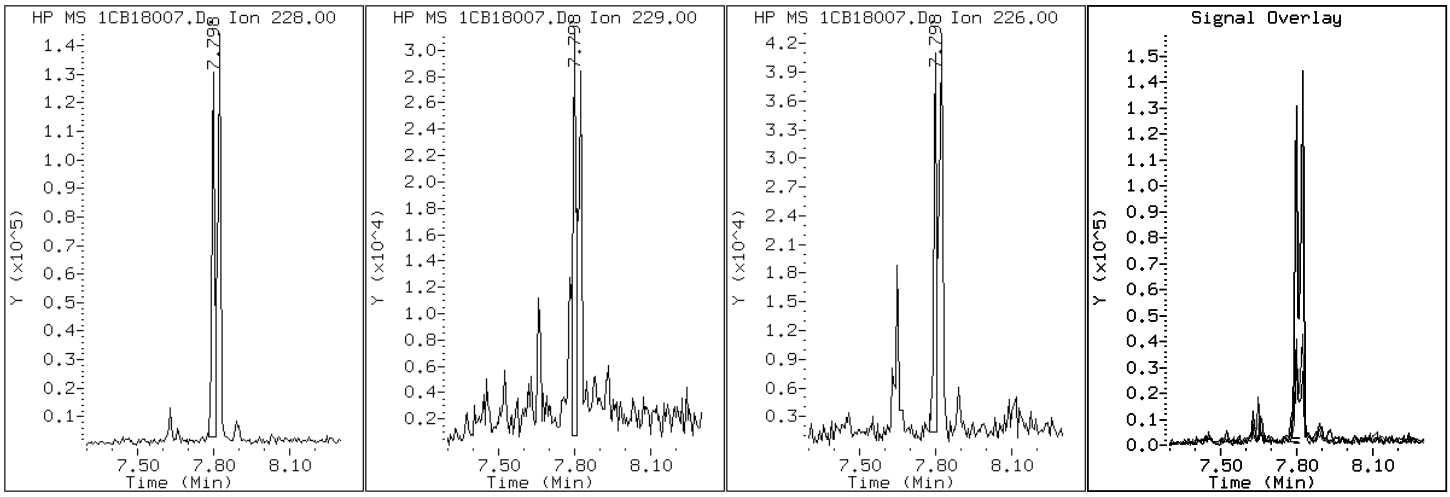
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

17 Benzo(a)anthracene



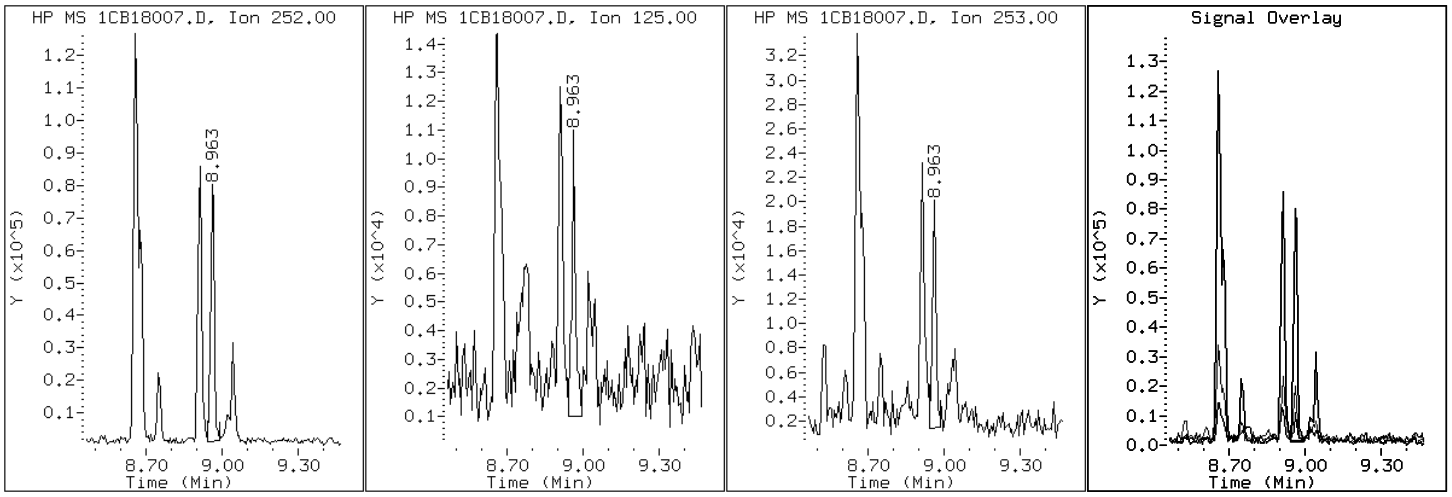
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

22 Benzo(a)pyrene



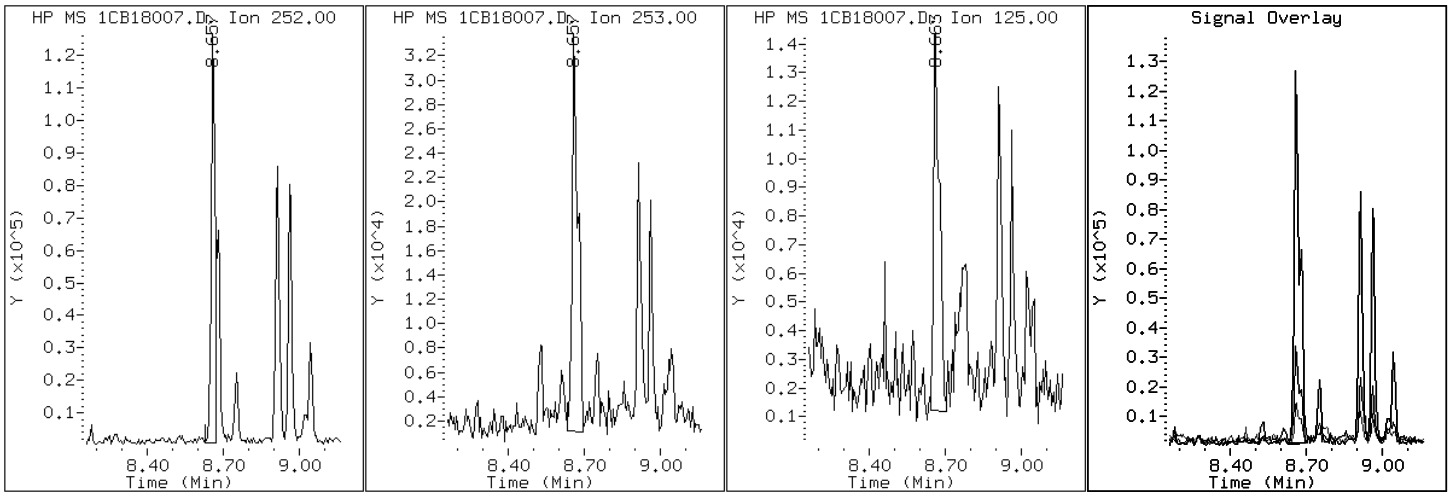
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

20 Benzo(b)fluoranthene



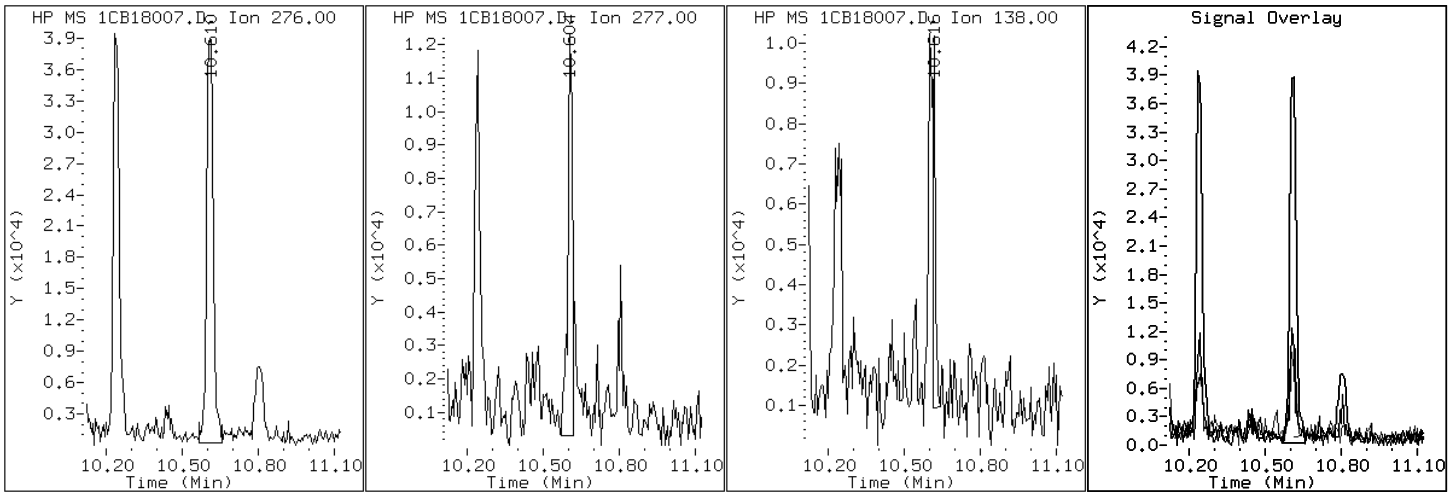
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

26 Benzo(g,h,i)perylene



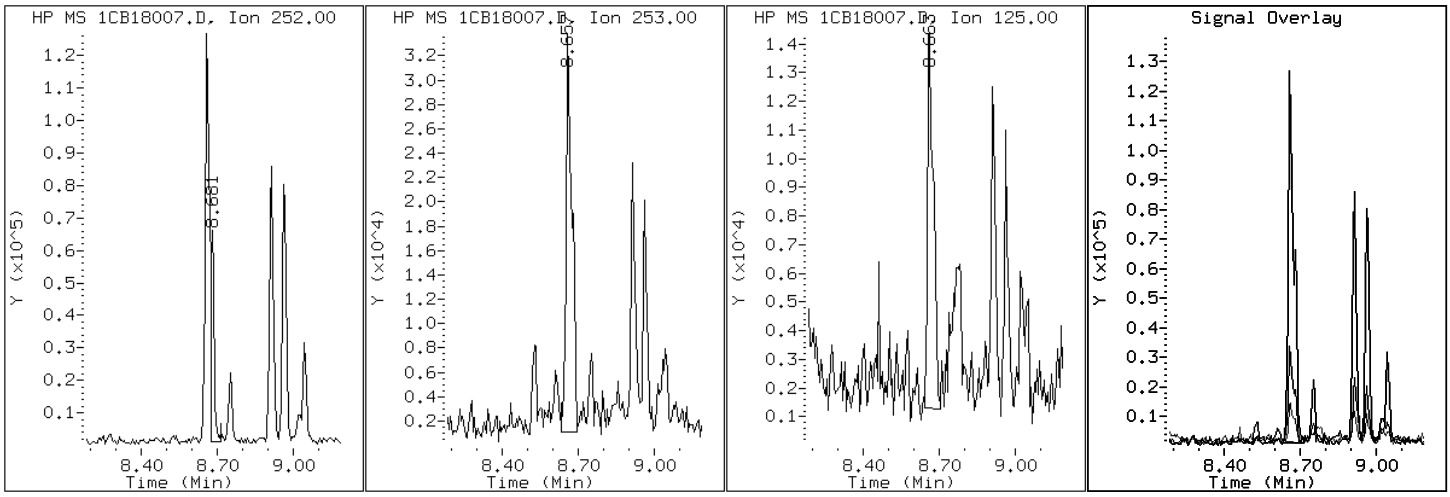
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

21 Benzo(k)fluoranthene



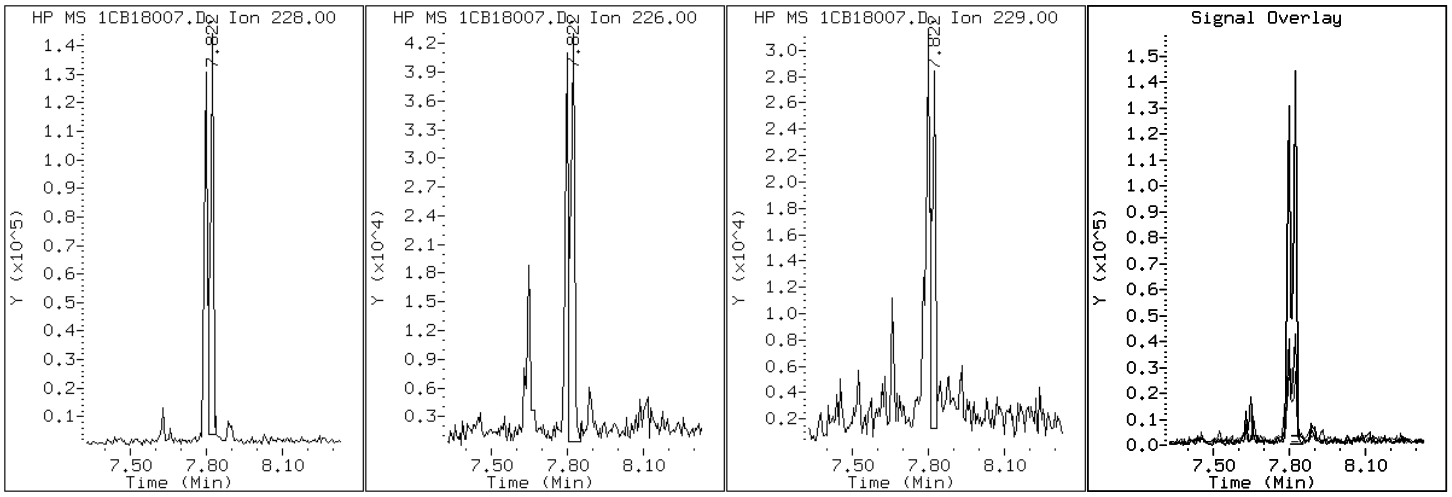
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

19 Chrysene



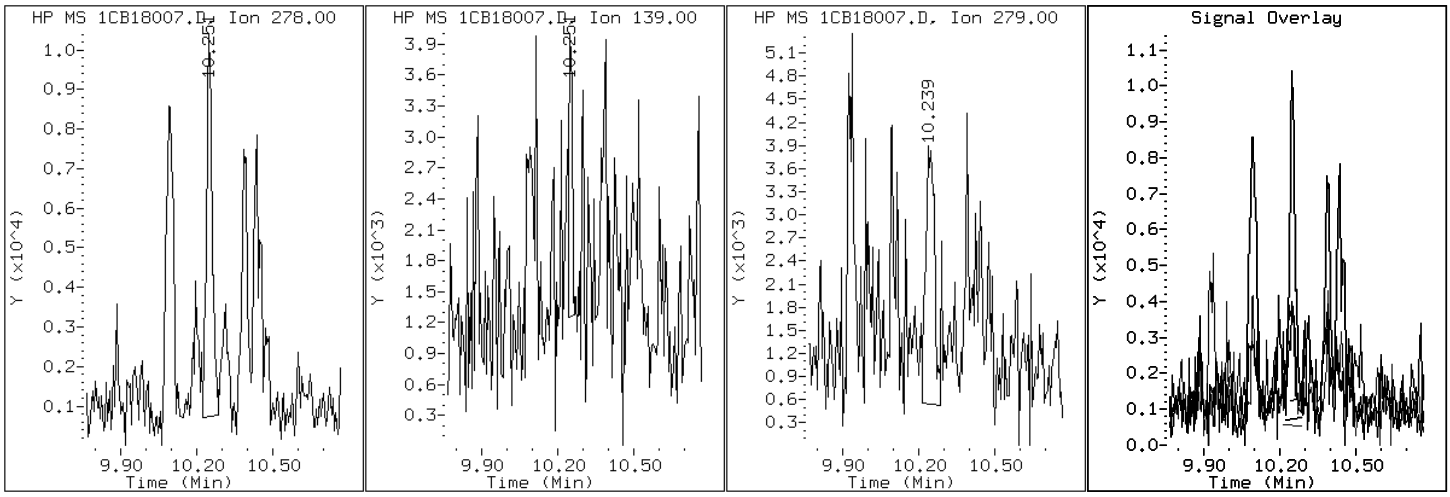
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

25 Dibenzo(a,h)anthracene



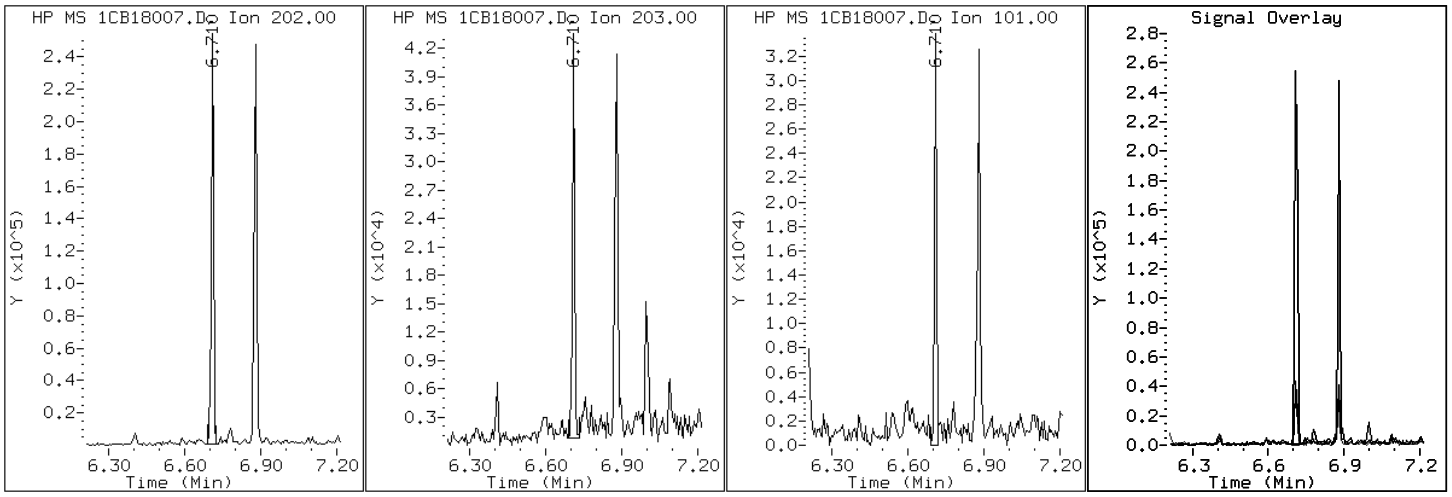
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

15 Fluoranthene



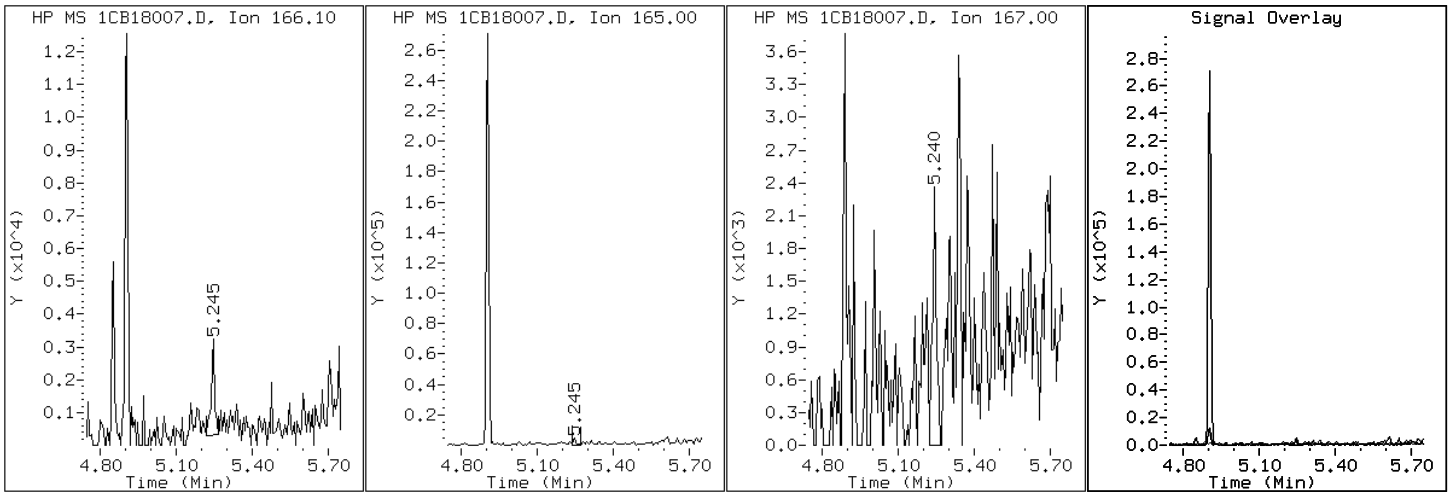
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

9 Fluorene



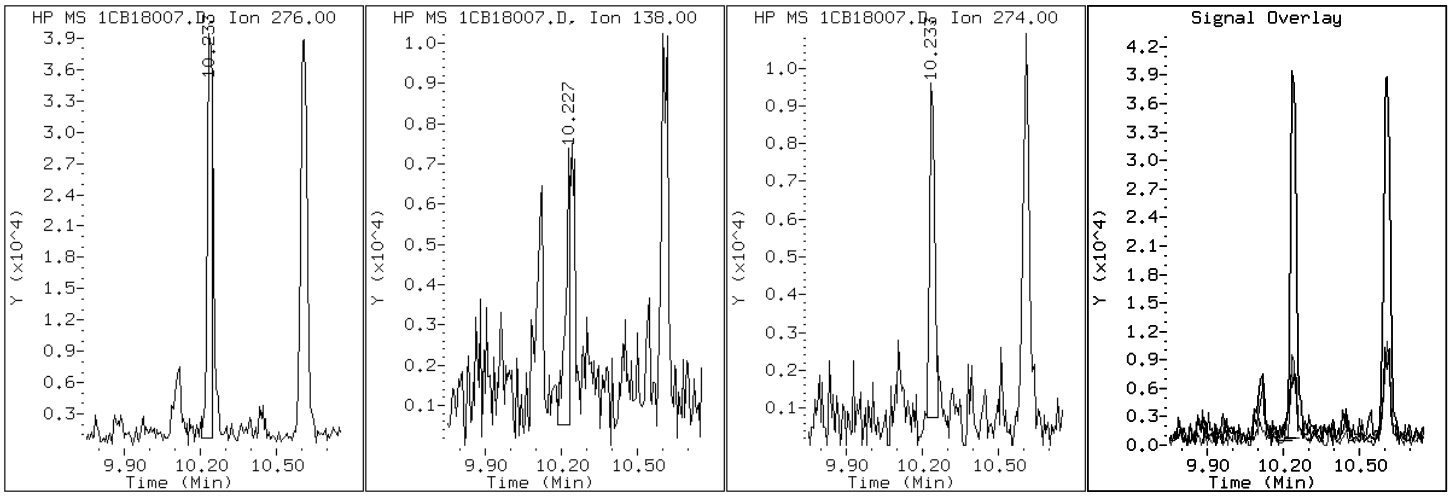
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

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



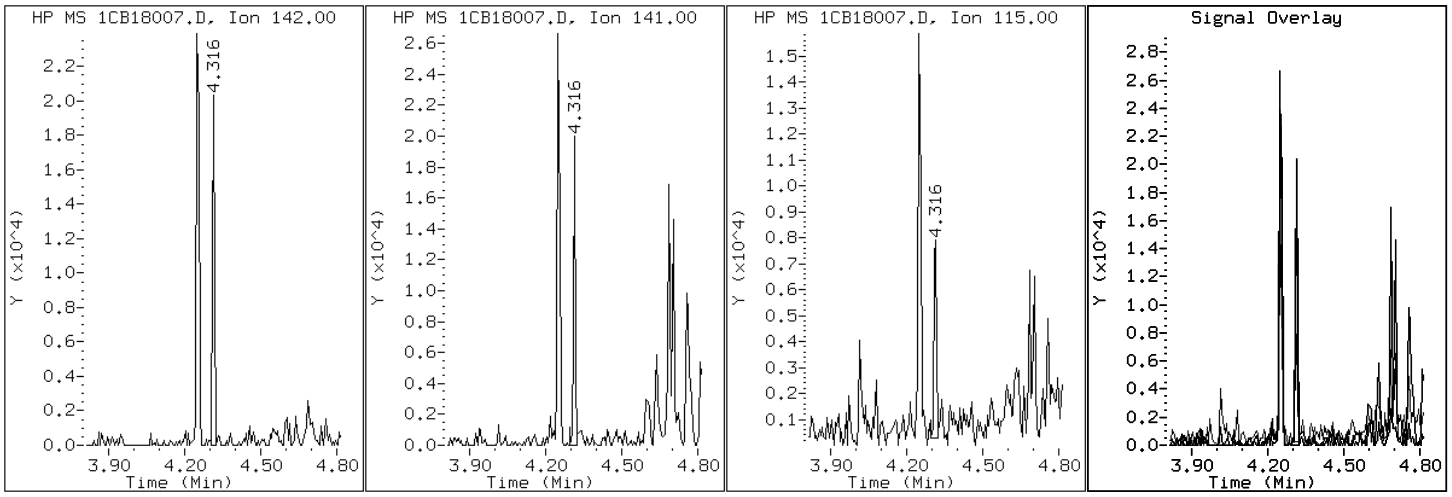
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

4 1-Methylnaphthalene



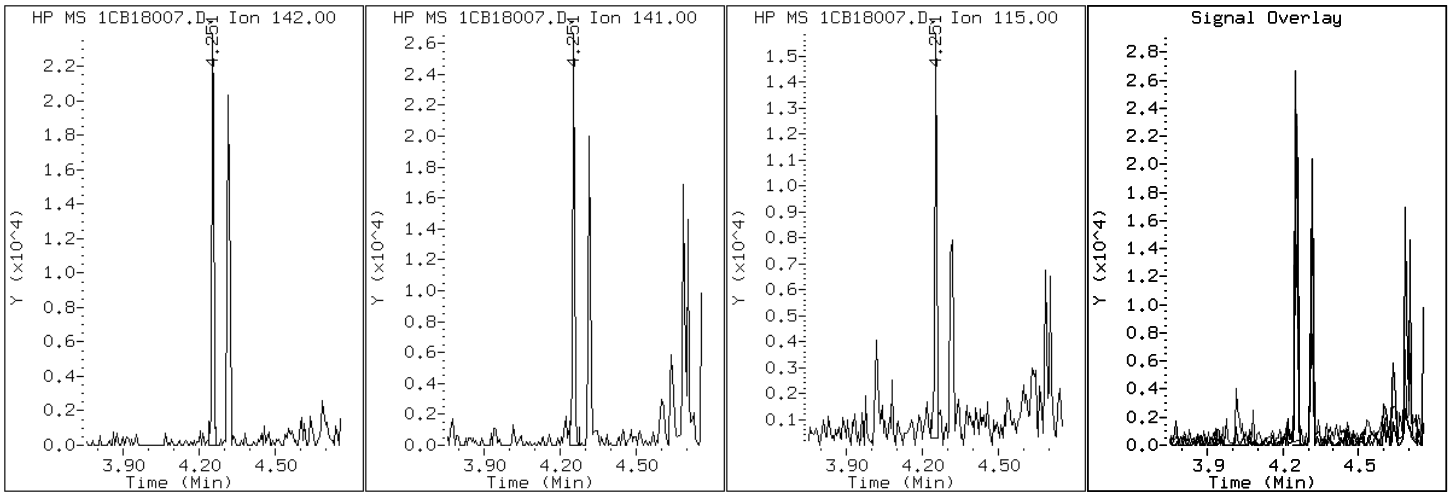
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

3 2-Methylnaphthalene



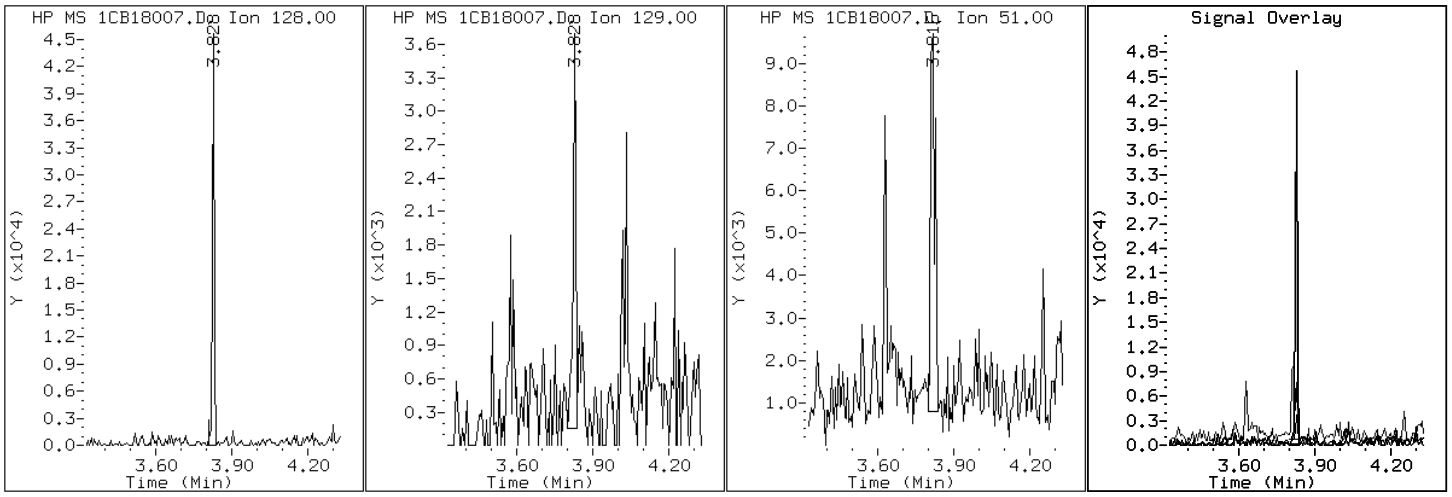
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

2 Naphthalene



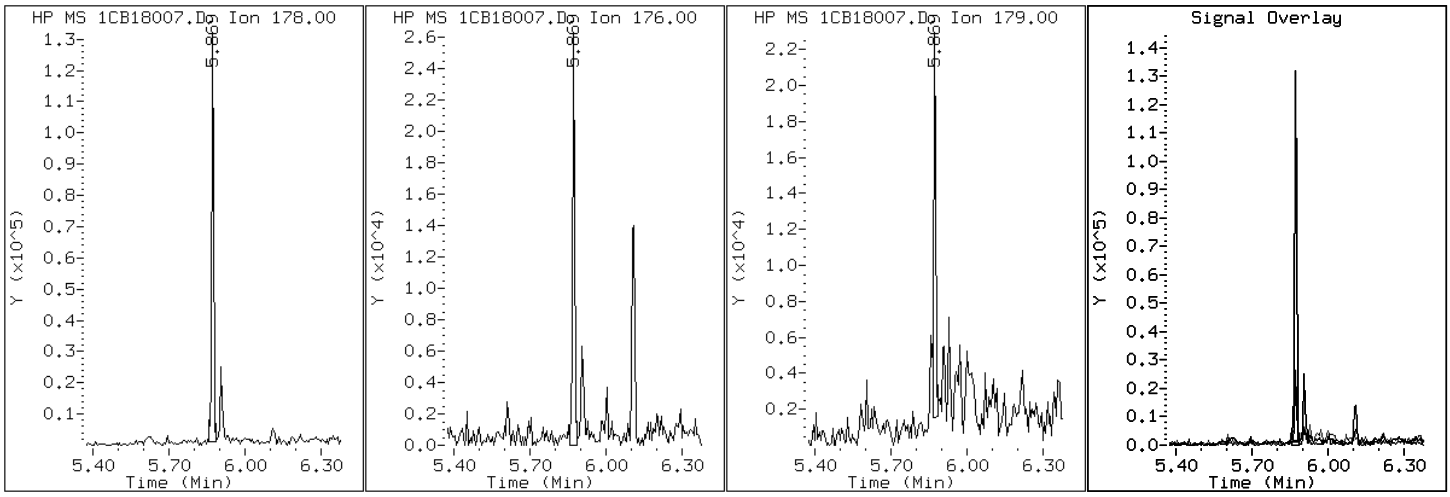
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

11 Phenanthrene



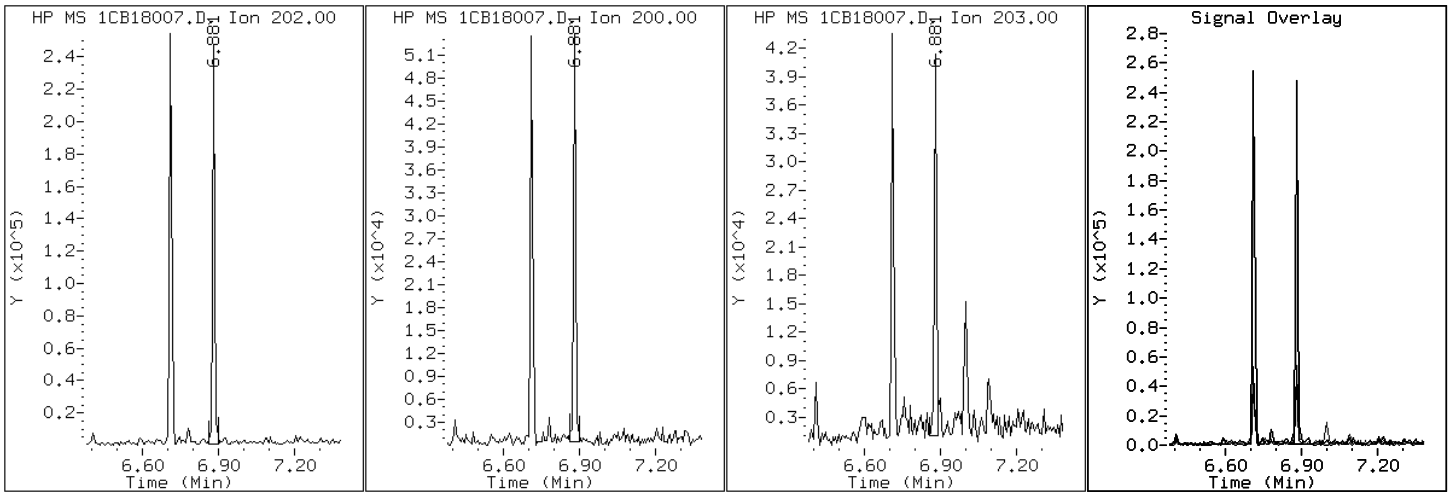
Data File: 1CB18007.D

Date: 18-FEB-2013 15:23

Client ID: CV0005C-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-4-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB18007.D
Inj. Date and Time: 18-FEB-2013 15:23
Instrument ID: BSMC5973.i
Client ID: CV0005C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

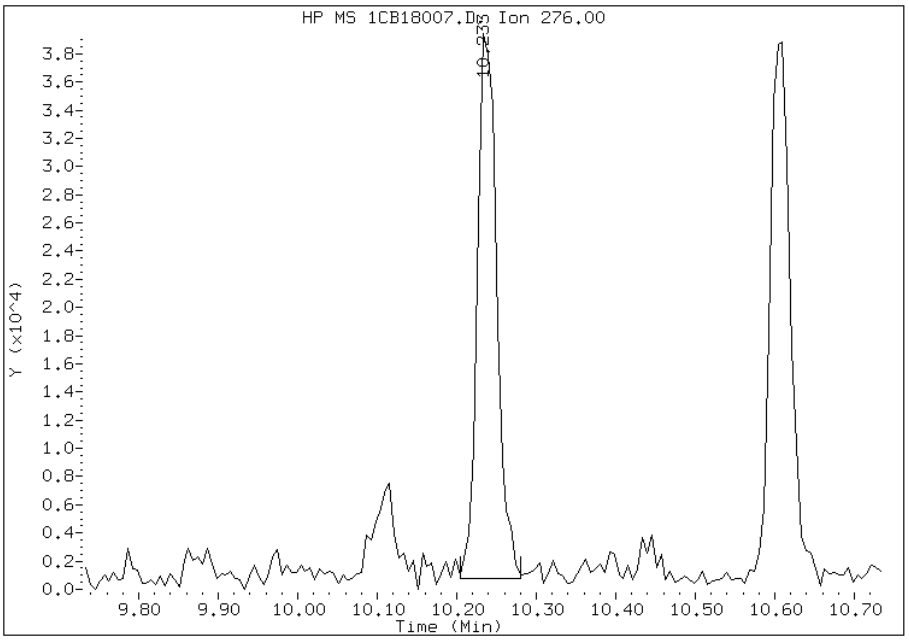
Processing Integration Results

RT: 10.23

Response: 65498

Amount: 1

Conc: 72



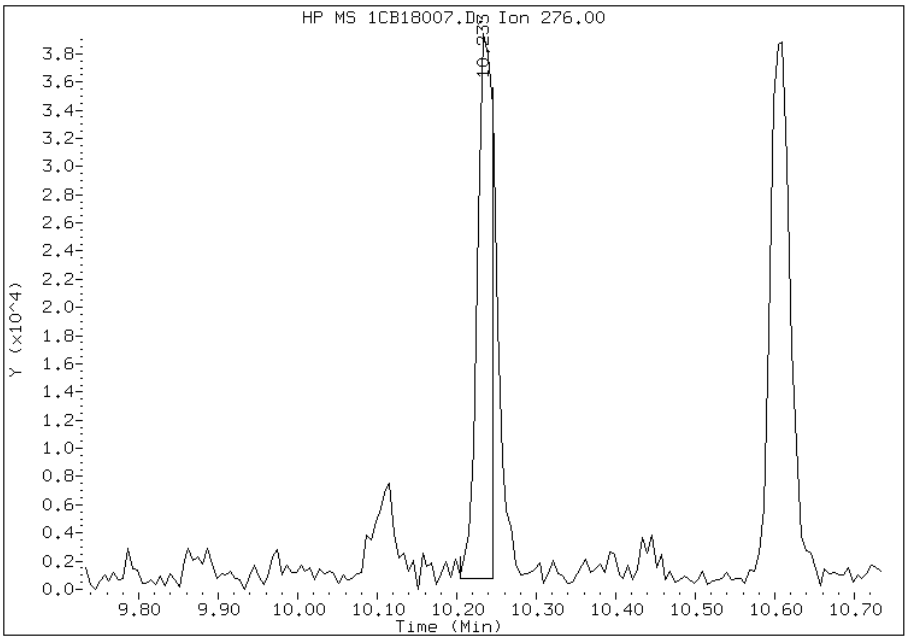
Manual Integration Results

RT: 10.23

Response: 52632

Amount: 1

Conc: 58



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 15:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005AB-GS | Lab Sample ID: 680-87318-5

Matrix: Solid | Lab File ID: 1CB18015.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 10:33

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.01(g) | Date Analyzed: 02/18/2013 17:49

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

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

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

Analysis Batch No.: 134598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	420	U	420	85
208-96-8	Acenaphthylene	21	J	170	21
120-12-7	Anthracene	33	J	36	18
56-55-3	Benzo[a]anthracene	220		34	17
50-32-8	Benzo[a]pyrene	170		44	22
205-99-2	Benzo[b]fluoranthene	370		52	26
191-24-2	Benzo[g,h,i]perylene	140		85	19
207-08-9	Benzo[k]fluoranthene	98		34	15
218-01-9	Chrysene	250		38	19
53-70-3	Dibenz(a,h)anthracene	51	J	85	17
206-44-0	Fluoranthene	330		85	17
86-73-7	Fluorene	18	J	85	17
193-39-5	Indeno[1,2,3-cd]pyrene	120		85	30
90-12-0	1-Methylnaphthalene	89	J	170	19
91-57-6	2-Methylnaphthalene	120	J	170	30
91-20-3	Naphthalene	94	J	170	19
85-01-8	Phenanthrene	190		34	17
129-00-0	Pyrene	270		85	16

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\1C021813.b\1CB18015.D
Lab Smp Id: 680-87318-A-5-A Client Smp ID: CV0005AB-GS
Inj Date : 18-FEB-2013 17:49
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-A-5-A
Misc Info : 680-87318-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\a-bFASTPAHi-m.m
Meth Date : 18-Feb-2013 14:24 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	15.010	Weight Extracted
M	5.924	% 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)	2046115	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1578935	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2896598	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	94618	2.22936	631.5117
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2898134	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2704170	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	17932	0.33073	93.6861
3 2-Methylnaphthalene	142	4.251	4.257	(1.114)	15394	0.43665	123.6901
4 1-Methylnaphthalene	142	4.315	4.315	(1.131)	10096	0.31487	89.1942
5 Acenaphthylene	152	4.815	4.815	(0.982)	4714	0.07504	21.2576
9 Fluorene	166	5.239	5.245	(1.068)	3146	0.06221	17.6213
11 Phenanthrene	178	5.874	5.874	(1.003)	56807	0.65702	186.1145
12 Anthracene	178	5.904	5.909	(1.008)	9054	0.11623	32.9237
13 Carbazole	167	6.015	6.015	(1.027)	10154	0.15006	42.5085

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.709	6.715	(1.146)	97871	1.15844	328.1529
16 Pyrene	202	6.880	6.880	(0.882)	73891	0.95769	271.2854
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	61669	0.77163	218.5809
19 Chrysene	228	7.821	7.827	(1.002)	71714	0.86870	246.0772
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	87506	1.31990	373.8887(M)
21 Benzo(k)fluoranthene	252	8.680	8.686	(0.962)	25215	0.34523	97.7940(QM)
22 Benzo(a)pyrene	252	8.962	8.968	(0.993)	36915	0.58516	165.7574
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.250	(1.135)	26667	0.44010	124.6684(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.268	(1.136)	10340	0.18096	51.2605
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	30397	0.49386	139.8958

QC Flag Legend

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

Data File: 1CB18015.D

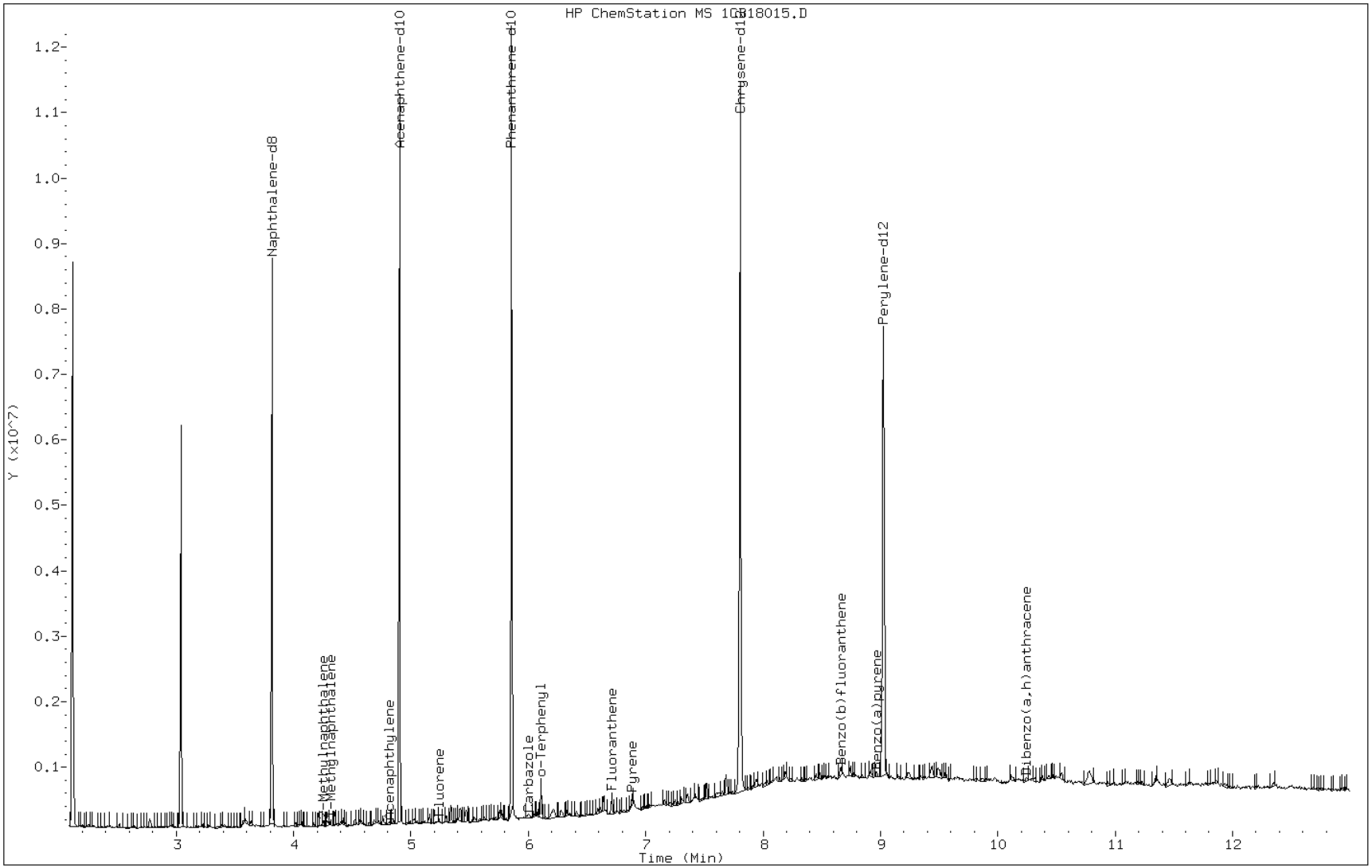
Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A

Operator: SCC



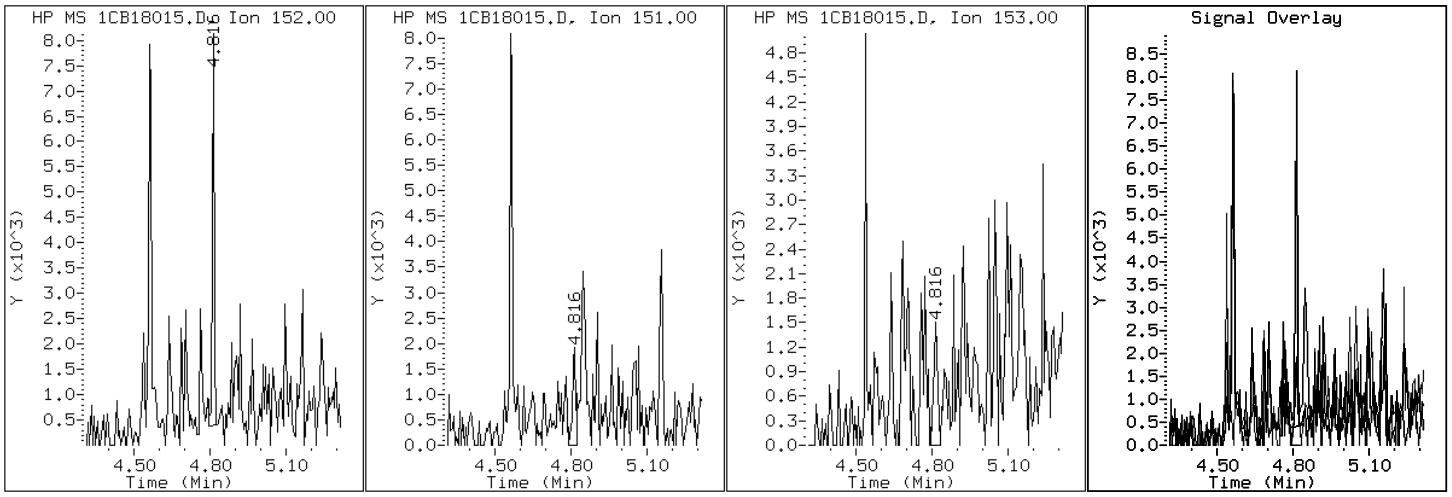
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

5 Acenaphthylene



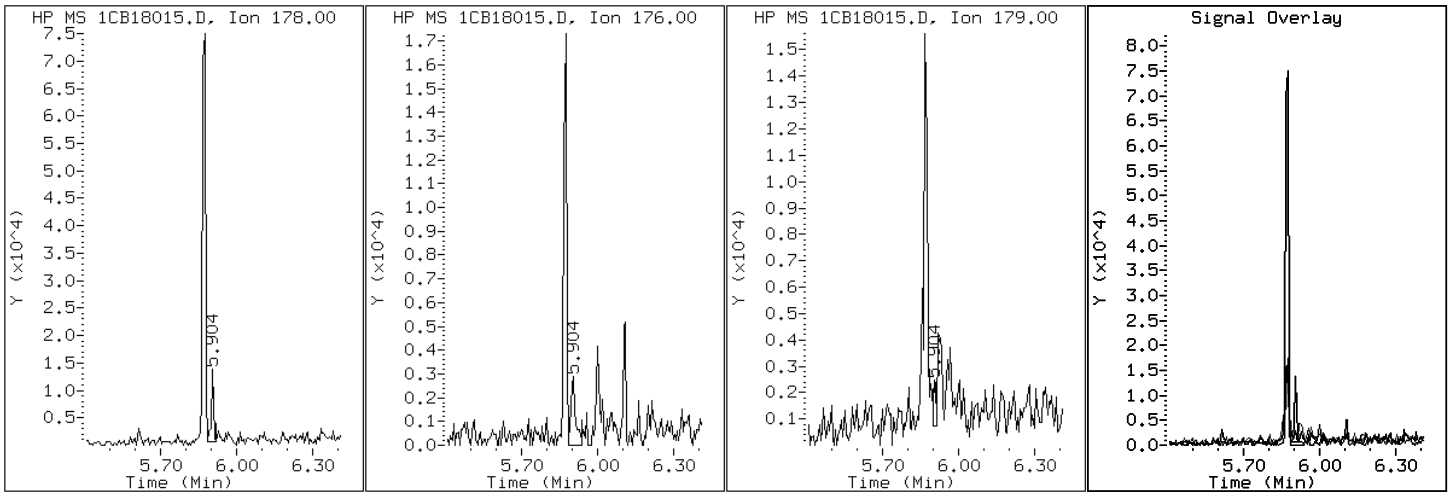
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

12 Anthracene



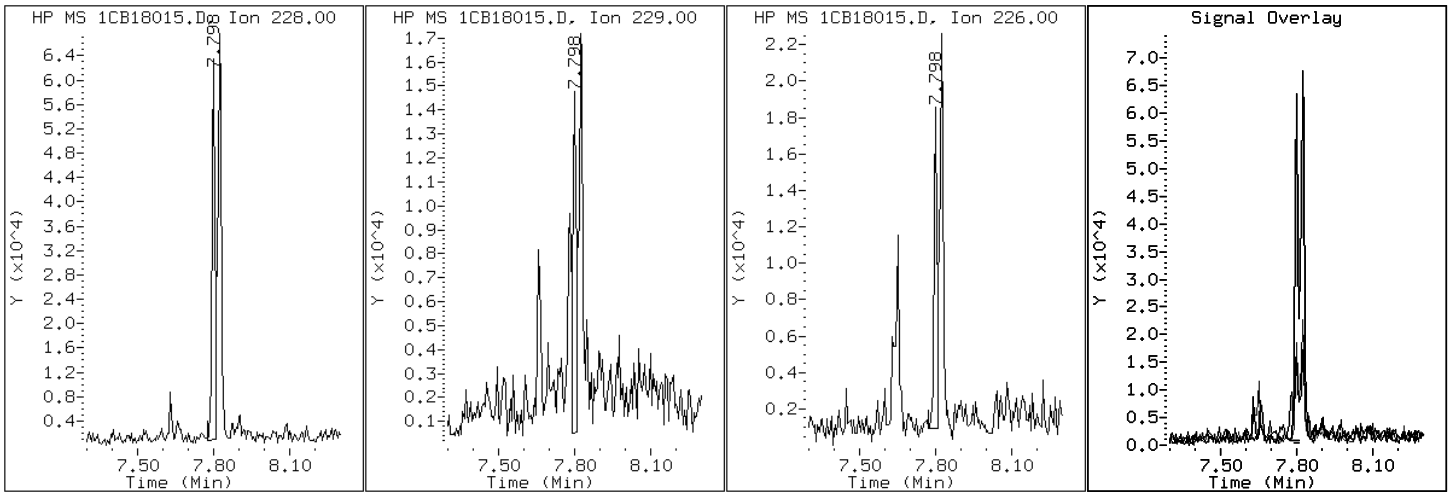
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

17 Benzo(a)anthracene



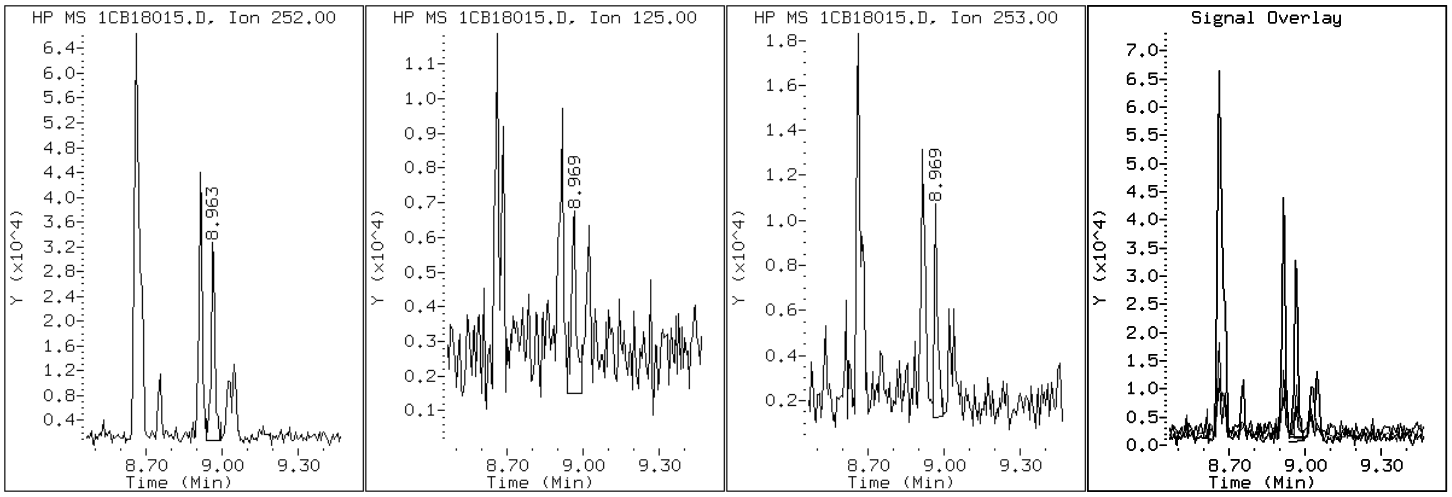
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

22 Benzo(a)pyrene



Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

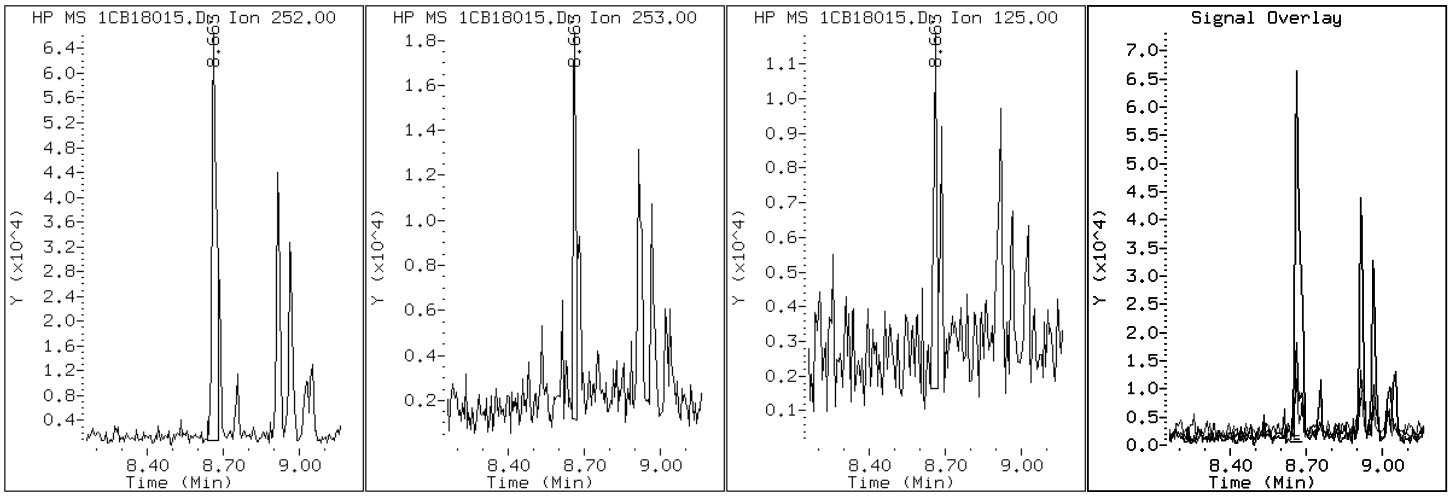
Client ID: CV0005AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A

Operator: SCC

20 Benzo(b)fluoranthene



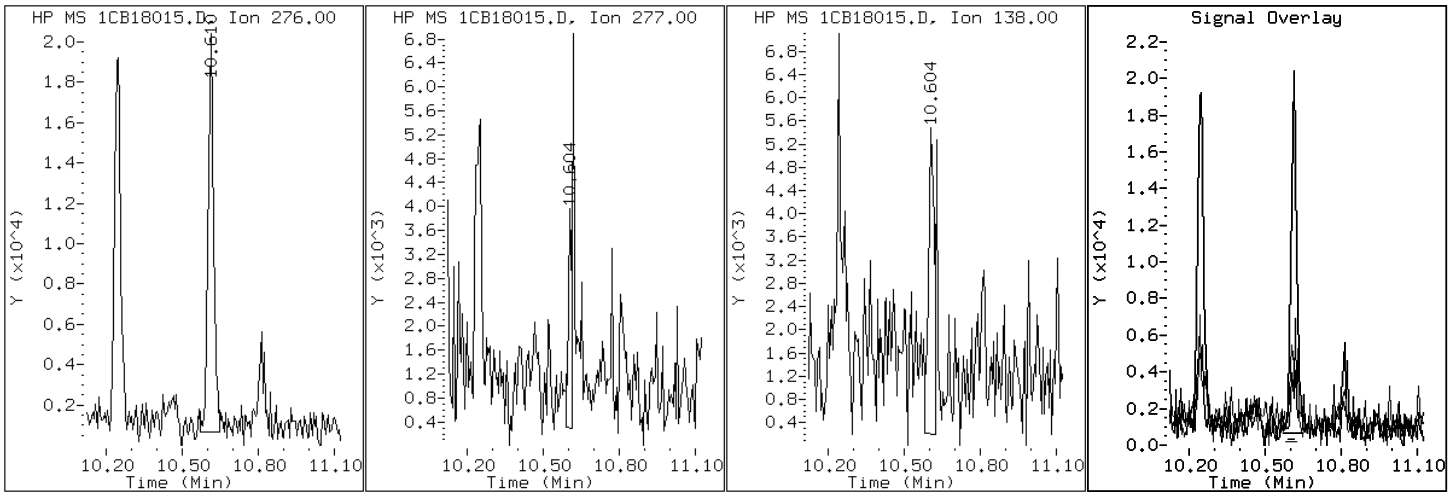
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

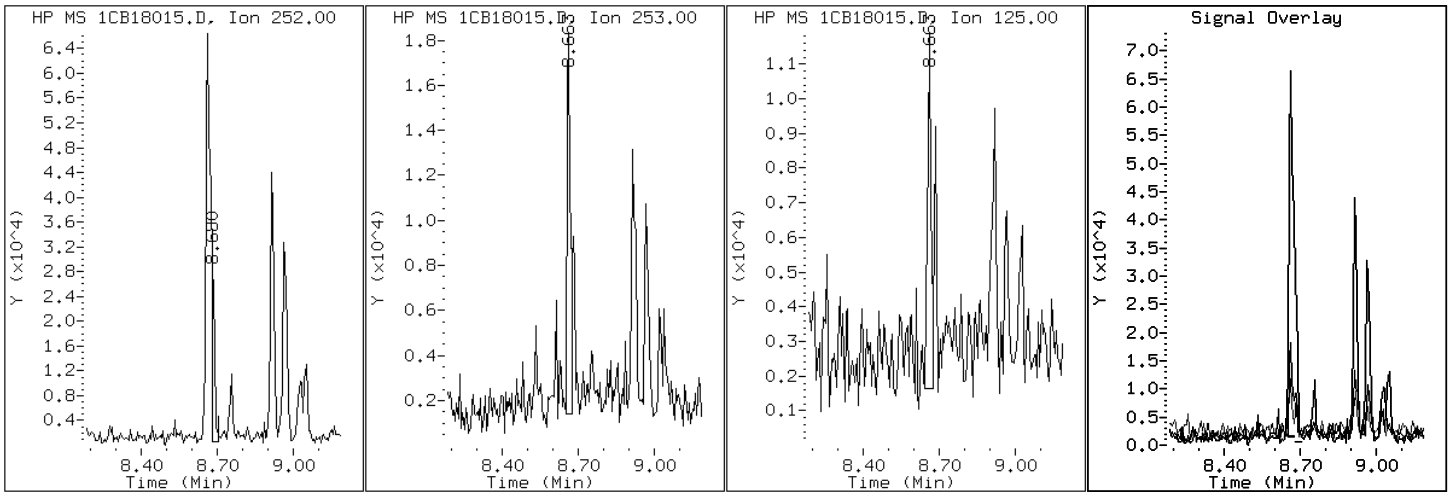
Client ID: CV0005AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A

Operator: SCC

21 Benzo(k)fluoranthene



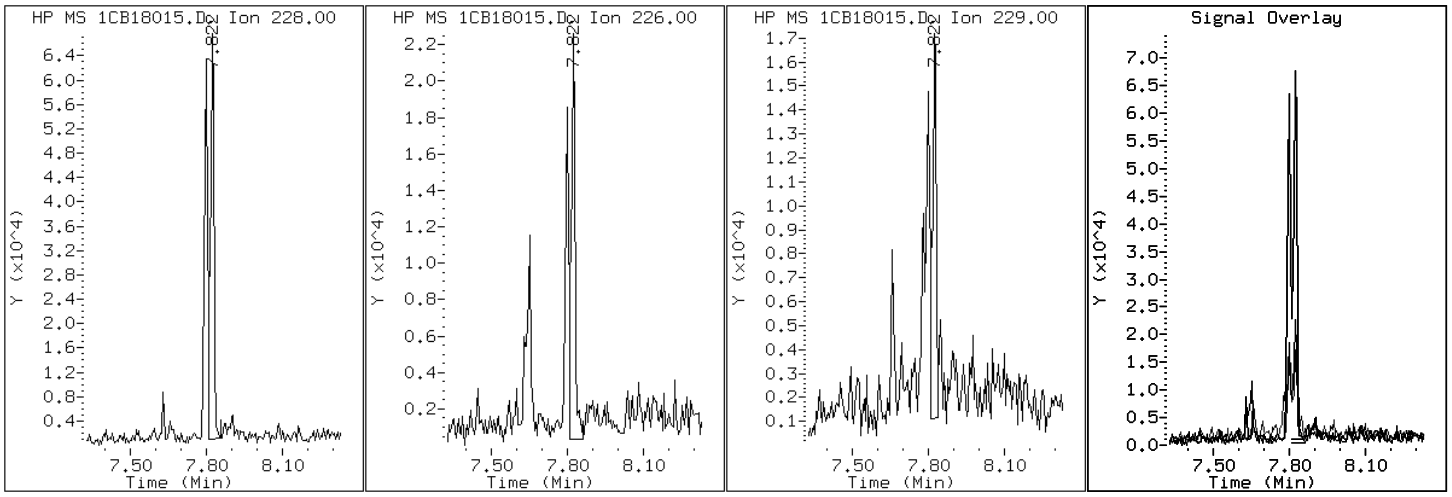
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

19 Chrysene



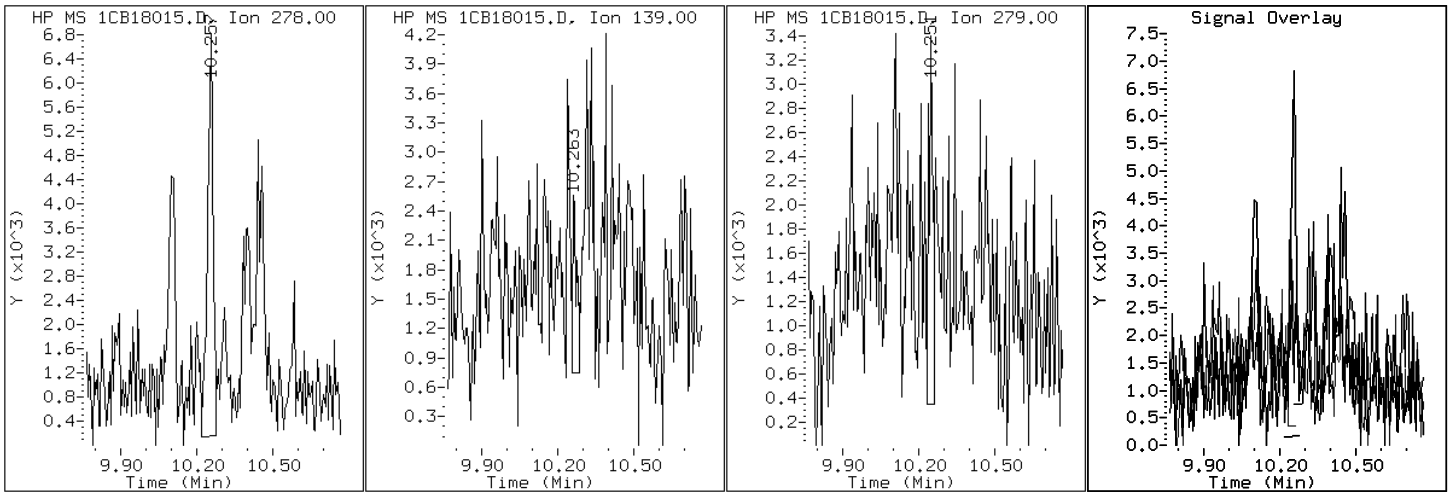
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

25 Dibenzo(a,h)anthracene



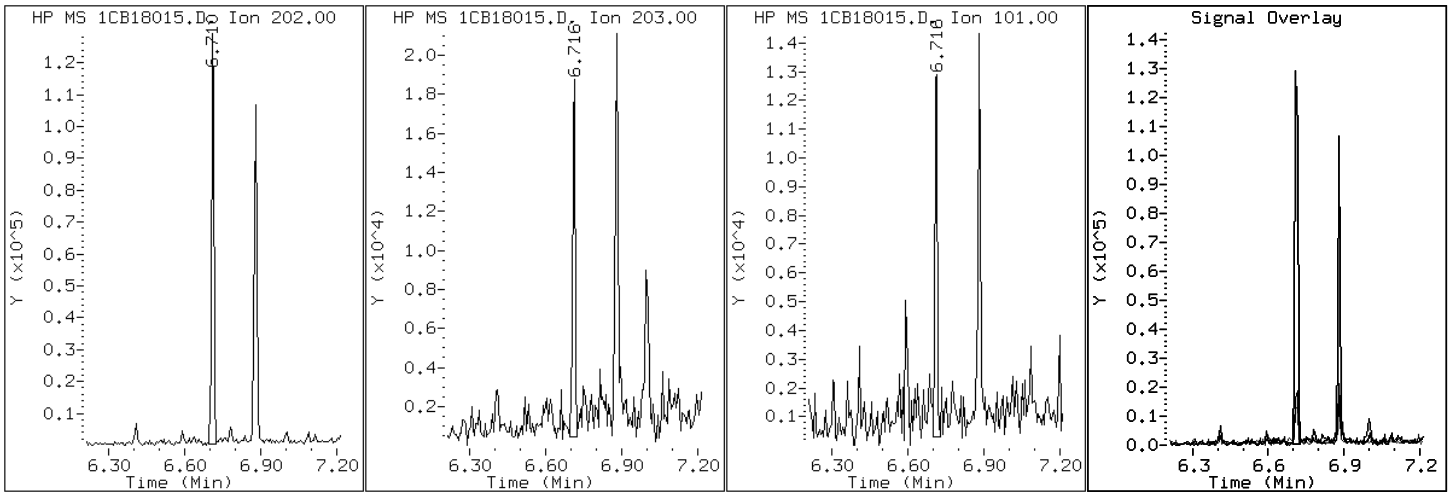
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

15 Fluoranthene



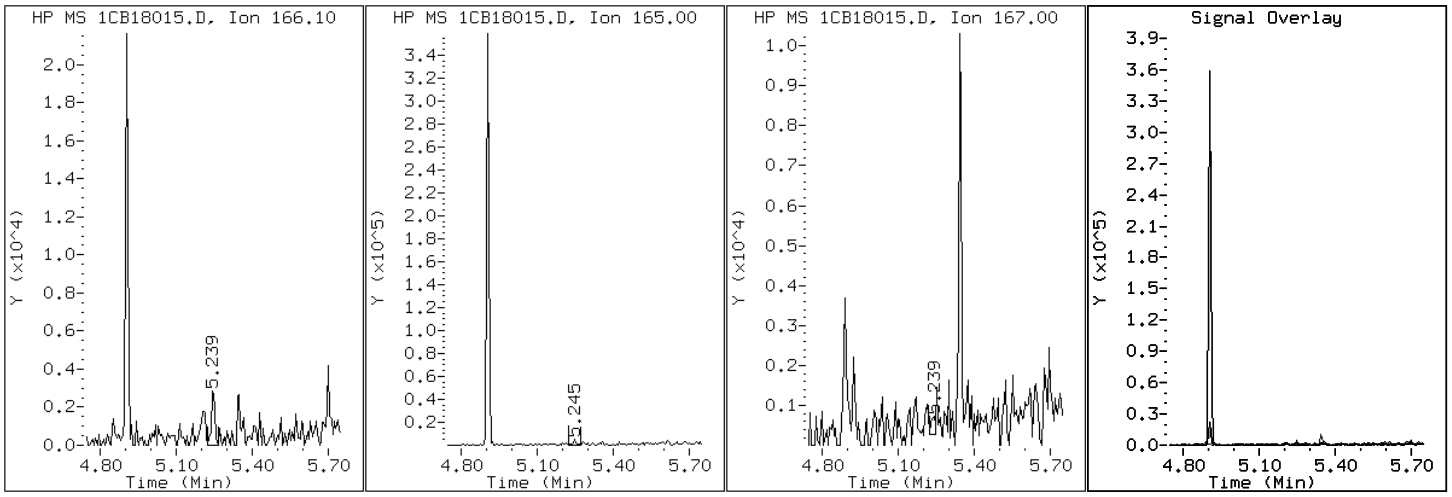
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

9 Fluorene



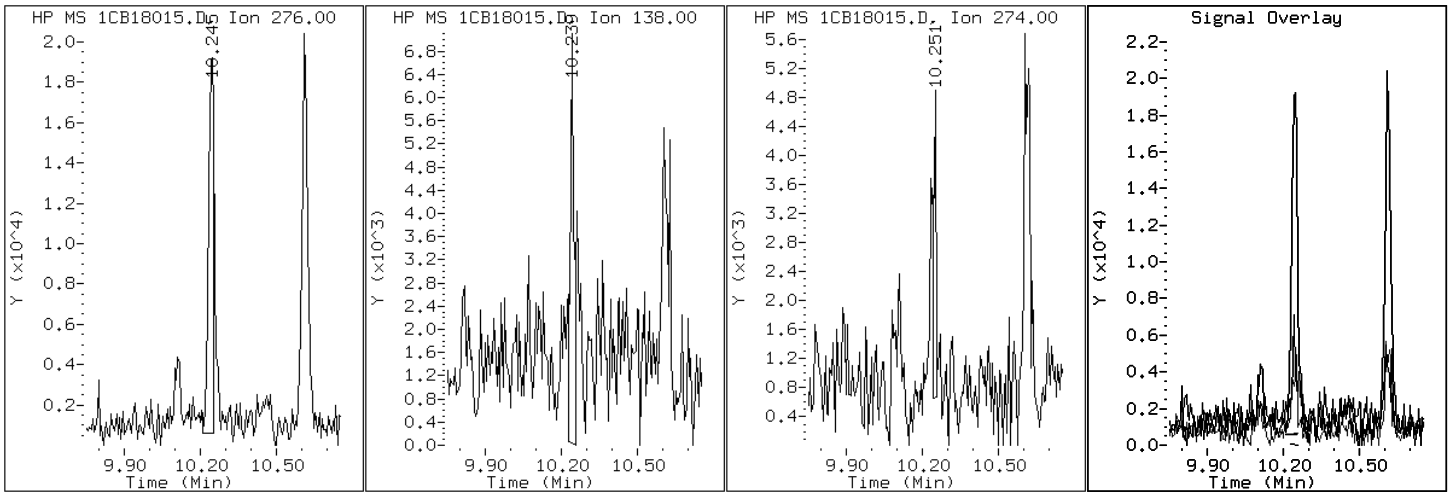
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

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



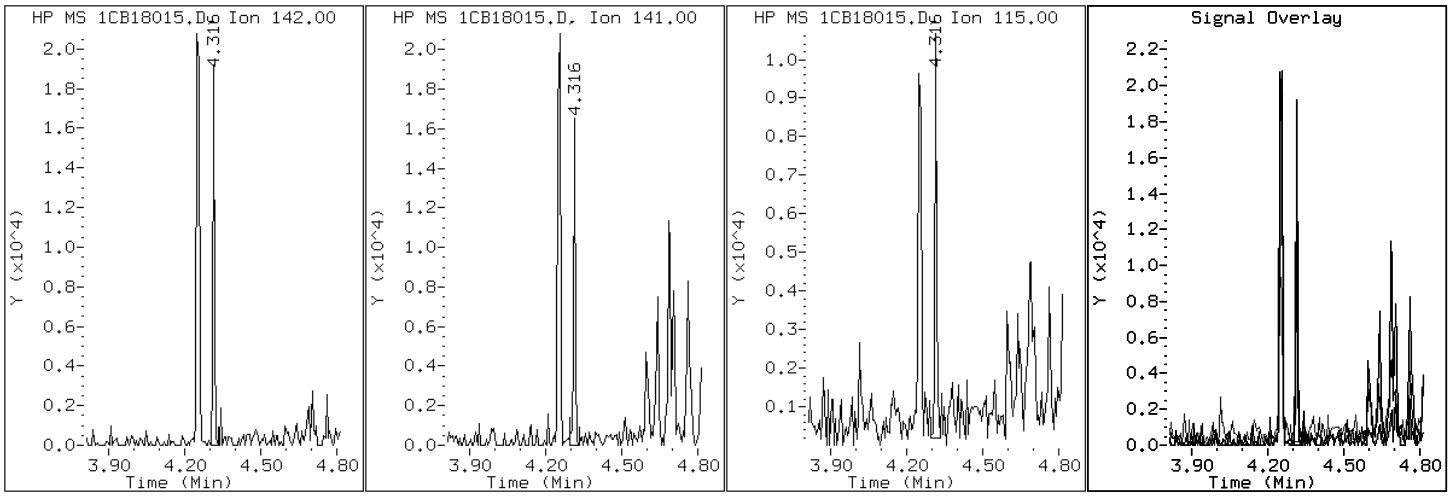
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

4 1-Methylnaphthalene



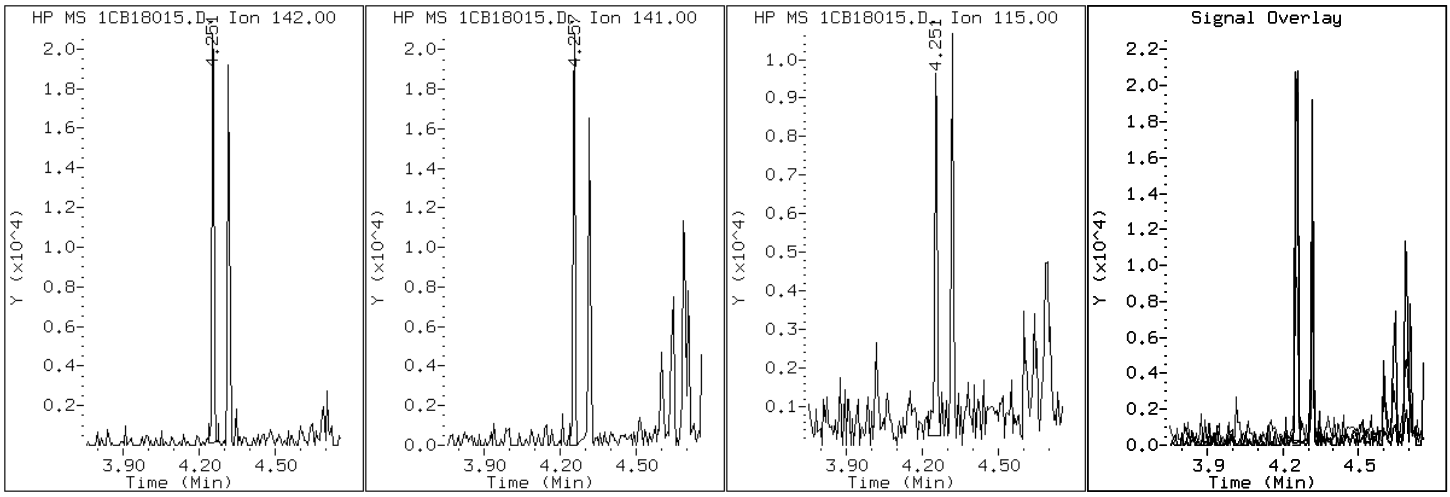
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

3 2-Methylnaphthalene



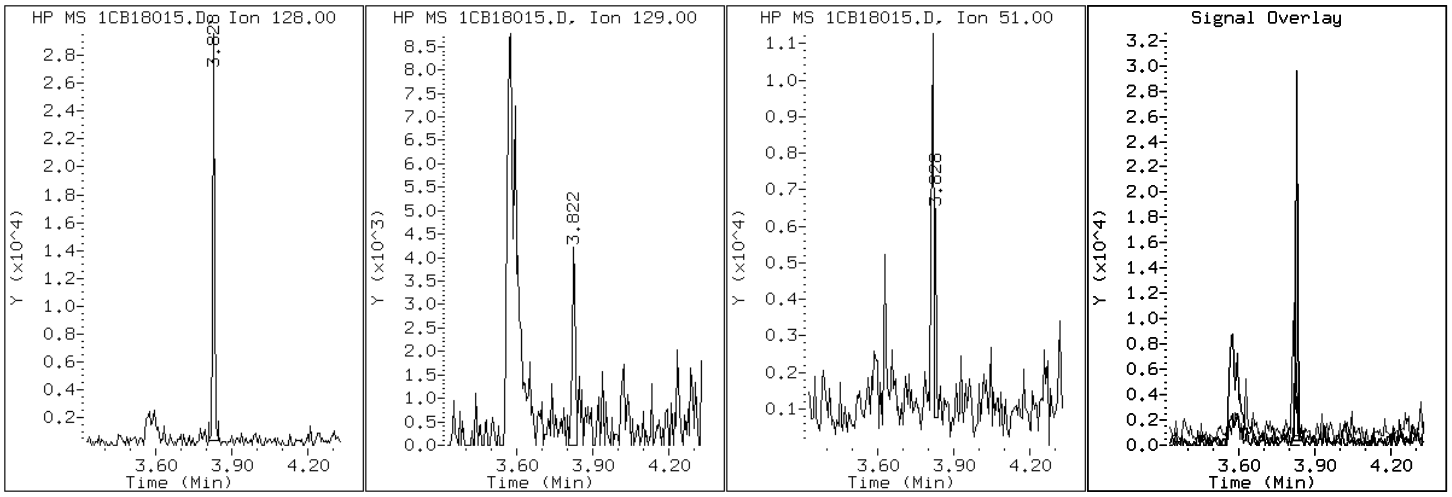
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

2 Naphthalene



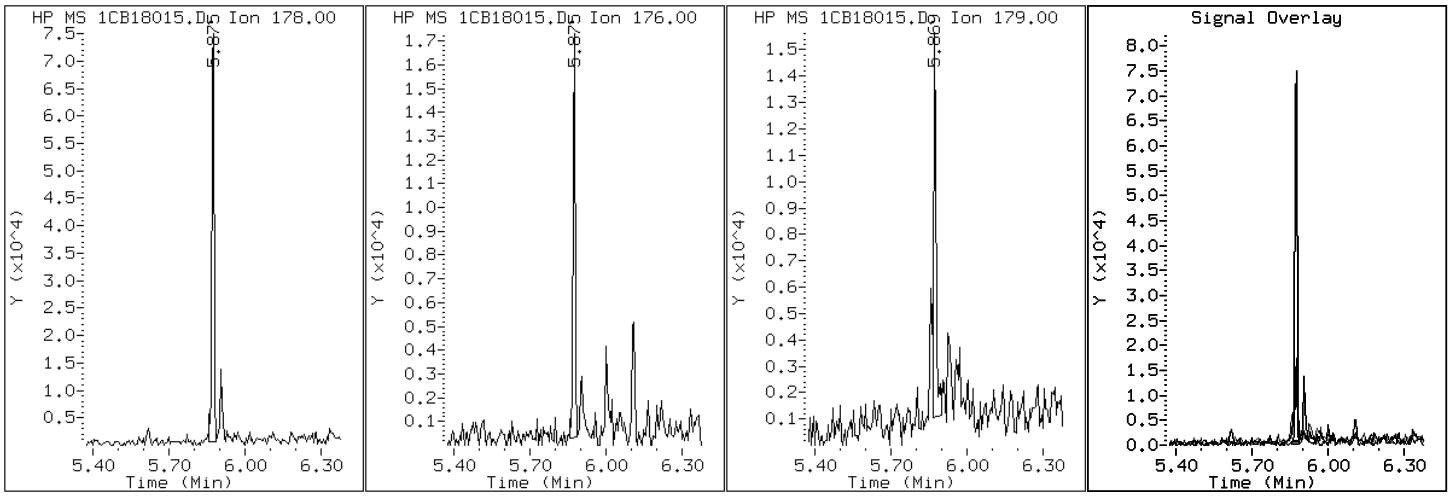
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

11 Phenanthrene



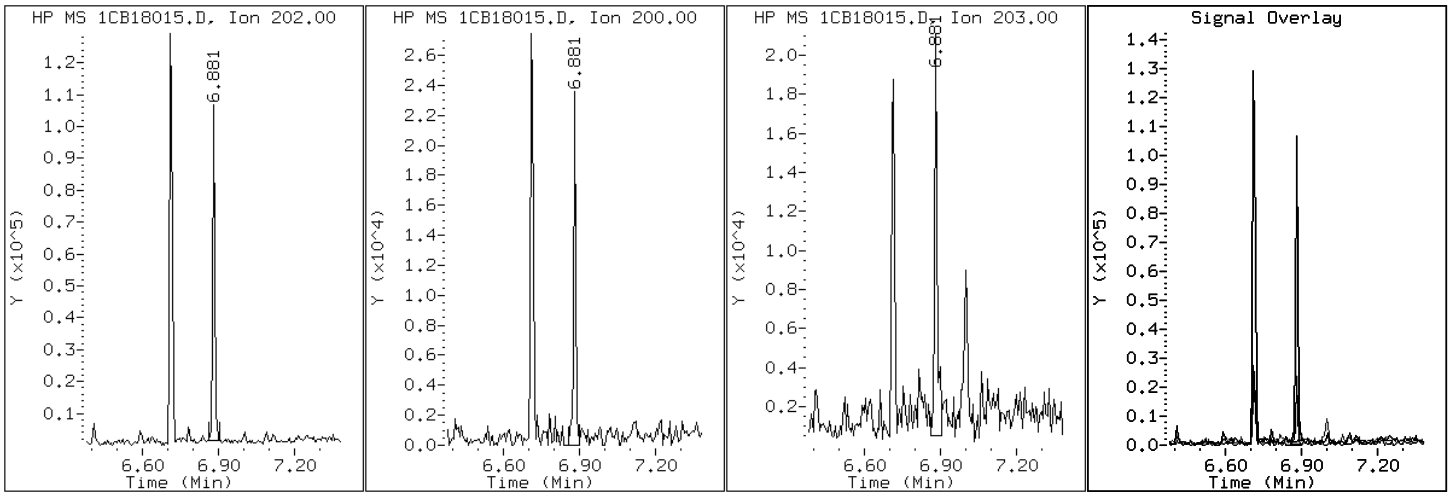
Data File: 1CB18015.D

Date: 18-FEB-2013 17:49

Client ID: CV0005AB-GS Instrument: BSMC5973.i

Sample Info: 680-87318-A-5-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB18015.D
Inj. Date and Time: 18-FEB-2013 17:49
Instrument ID: BSMC5973.i
Client ID: CV0005AB-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

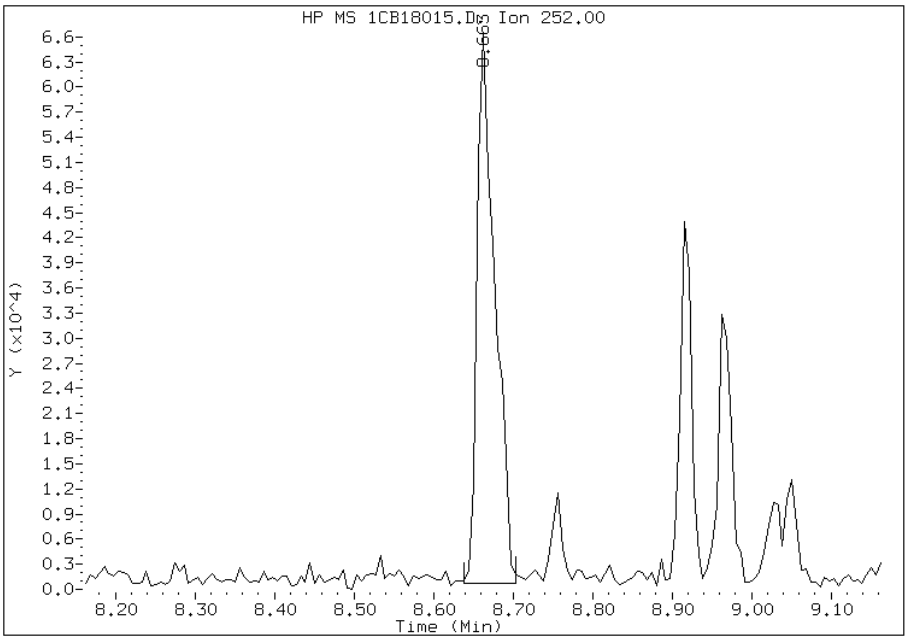
Processing Integration Results

RT: 8.66

Response: 102508

Amount: 2

Conc: 438



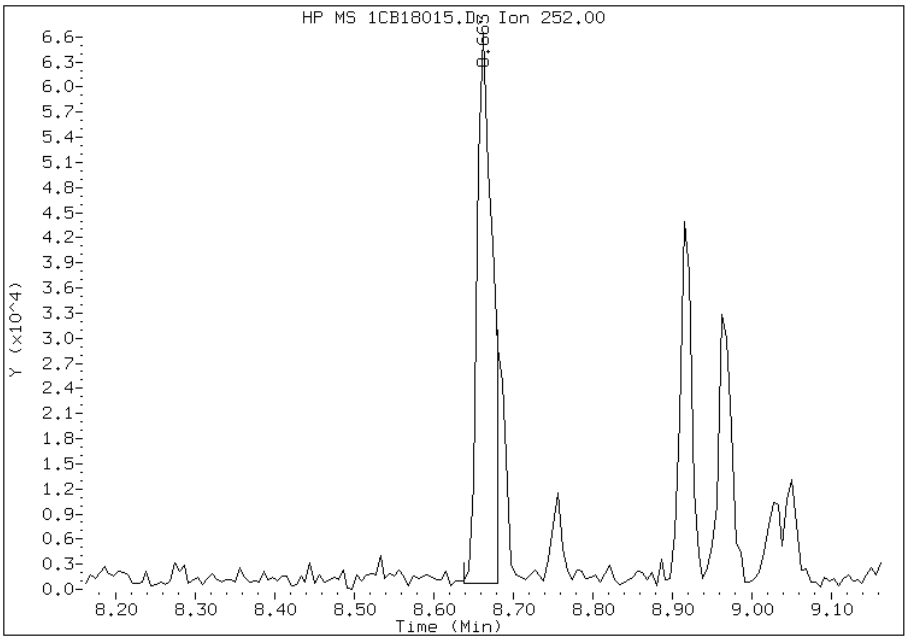
Manual Integration Results

RT: 8.66

Response: 87506

Amount: 1

Conc: 374



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 10:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB18015.D
Inj. Date and Time: 18-FEB-2013 17:49
Instrument ID: BSMC5973.i
Client ID: CV0005AB-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

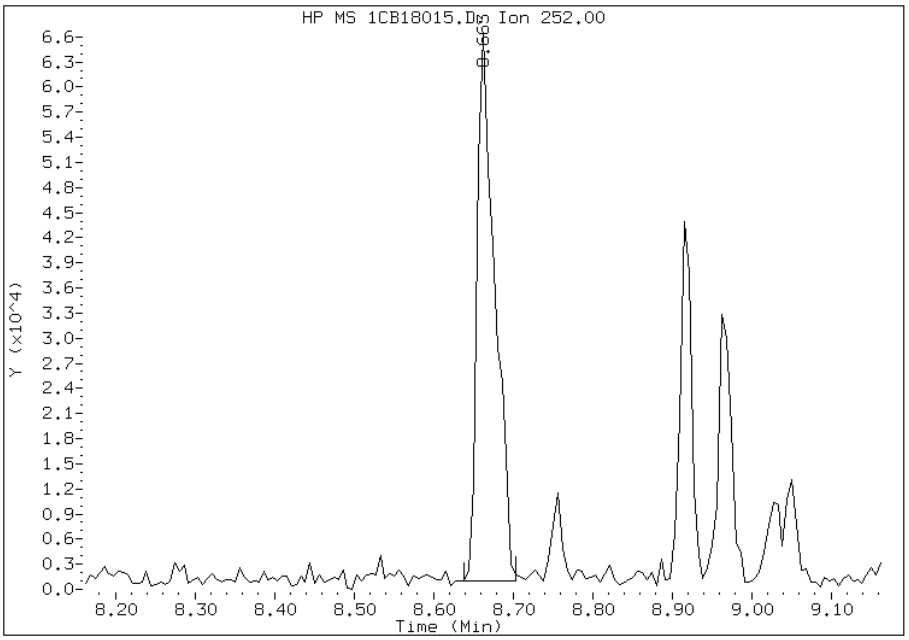
Processing Integration Results

RT: 8.66

Response: 101398

Amount: 1

Conc: 393



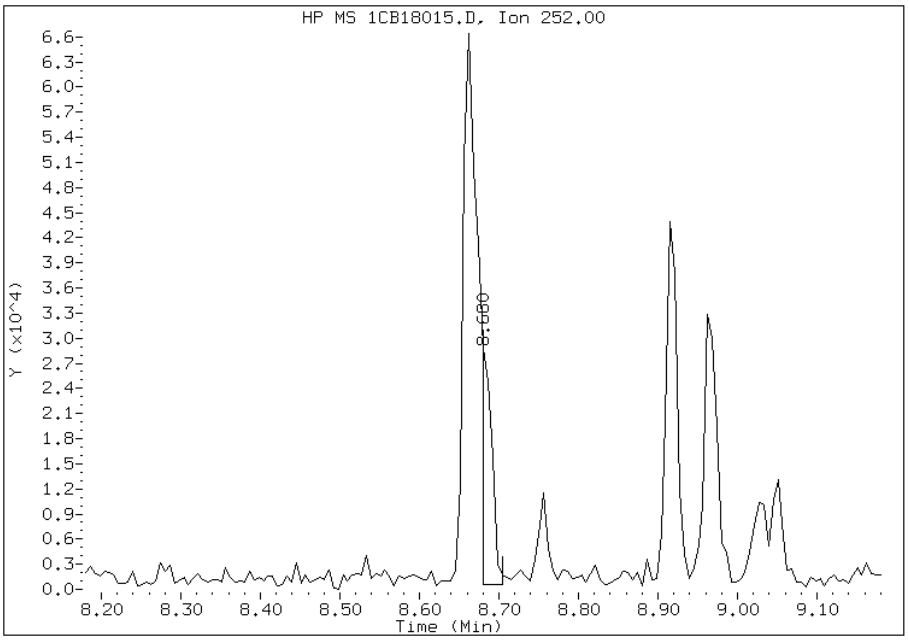
Manual Integration Results

RT: 8.68

Response: 25215

Amount: 0

Conc: 98



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 10:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB18015.D
Inj. Date and Time: 18-FEB-2013 17:49
Instrument ID: BSMC5973.i
Client ID: CV0005AB-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

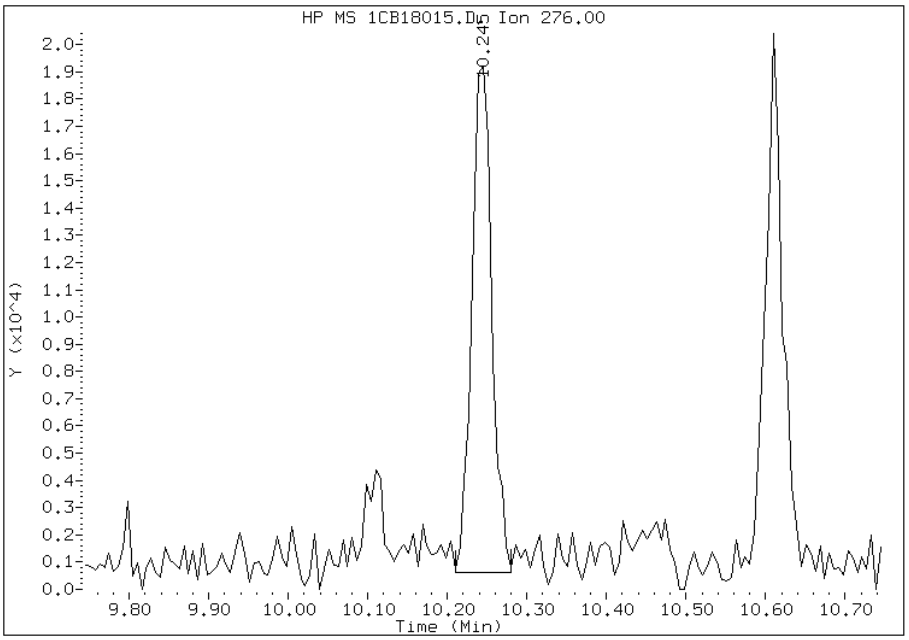
Processing Integration Results

RT: 10.25

Response: 32288

Amount: 1

Conc: 151



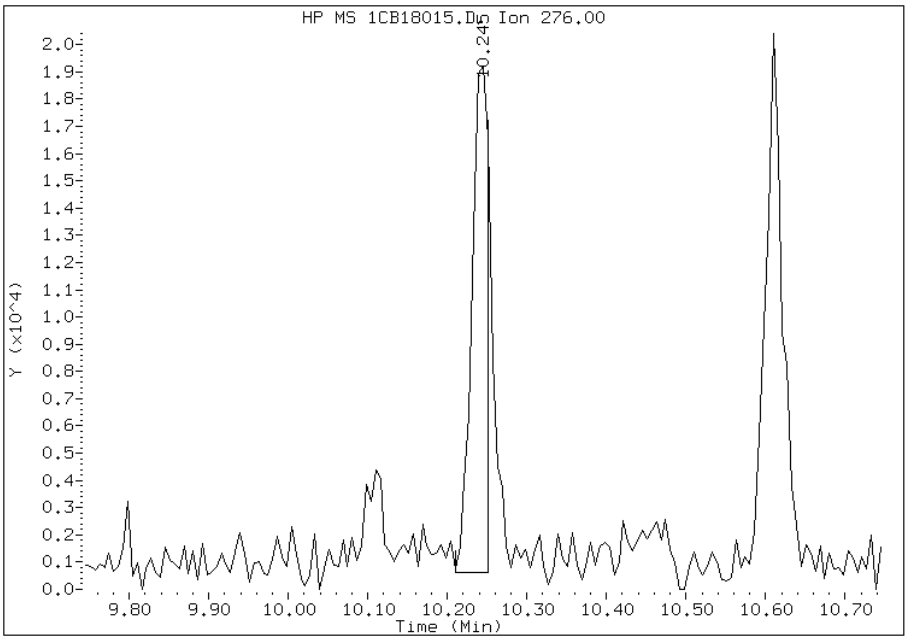
Manual Integration Results

RT: 10.25

Response: 26667

Amount: 0

Conc: 125



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 10:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005D-CS | Lab Sample ID: 680-87318-6

Matrix: Solid | Lab File ID: 1CB15013.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 10:44

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.09(g) | Date Analyzed: 02/15/2013 14:51

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

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

% Moisture: 6.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	21
208-96-8	Acenaphthylene	26	J	43	5.3
120-12-7	Anthracene	38		8.9	4.5
56-55-3	Benzo[a]anthracene	240		8.5	4.2
50-32-8	Benzo[a]pyrene	250		11	5.5
205-99-2	Benzo[b]fluoranthene	440		13	6.5
191-24-2	Benzo[g,h,i]perylene	210		21	4.7
207-08-9	Benzo[k]fluoranthene	130		8.5	3.8
218-01-9	Chrysene	270		9.6	4.8
53-70-3	Dibenz(a,h)anthracene	58		21	4.4
206-44-0	Fluoranthene	420		21	4.3
86-73-7	Fluorene	16	J	21	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	160		21	7.6
90-12-0	1-Methylnaphthalene	72		43	4.7
91-57-6	2-Methylnaphthalene	88		43	7.6
91-20-3	Naphthalene	83		43	4.7
85-01-8	Phenanthrene	220		8.5	4.2
129-00-0	Pyrene	390		21	3.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15013.D
Lab Smp Id: 680-87318-A-6-A Client Smp ID: CV0005D-CS
Inj Date : 15-FEB-2013 14:51
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-6-a
Misc Info : 680-87318-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	6.615	% 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	3.821	3.821	(1.000)	2397718	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1891404	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3421048	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	319477	6.37346	452.2803
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3471691	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3230875	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	74441	1.17163	83.1423
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	51335	1.24259	88.1780
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	38006	1.01151	71.7799
5 Acenaphthylene	152	4.821	4.821	(0.982)	27709	0.36824	26.1311
9 Fluorene	166	5.245	5.245	(1.068)	13854	0.22868	16.2281
11 Phenanthrene	178	5.874	5.880	(1.002)	317010	3.10441	220.2987
12 Anthracene	178	5.909	5.910	(1.008)	49290	0.53574	38.0179
13 Carbazole	167	6.015	6.015	(1.026)	43932	0.54973	39.0103

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	584065	5.85344	415.3783
16 Pyrene	202	6.886	6.886	(0.882)	503136	5.44373	386.3039
17 Benzo(a)anthracene	228	7.803	7.804	(0.999)	320228	3.34488	237.3633
19 Chrysene	228	7.827	7.833	(1.002)	380910	3.85182	273.3371
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	491838	6.20925	440.6278(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	156317	1.79132	127.1174(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	267553	3.54971	251.8983
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	162224	2.24084	159.0167(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.280	(1.136)	56226	0.82359	58.4446
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	220767	3.00207	213.0362

QC Flag Legend

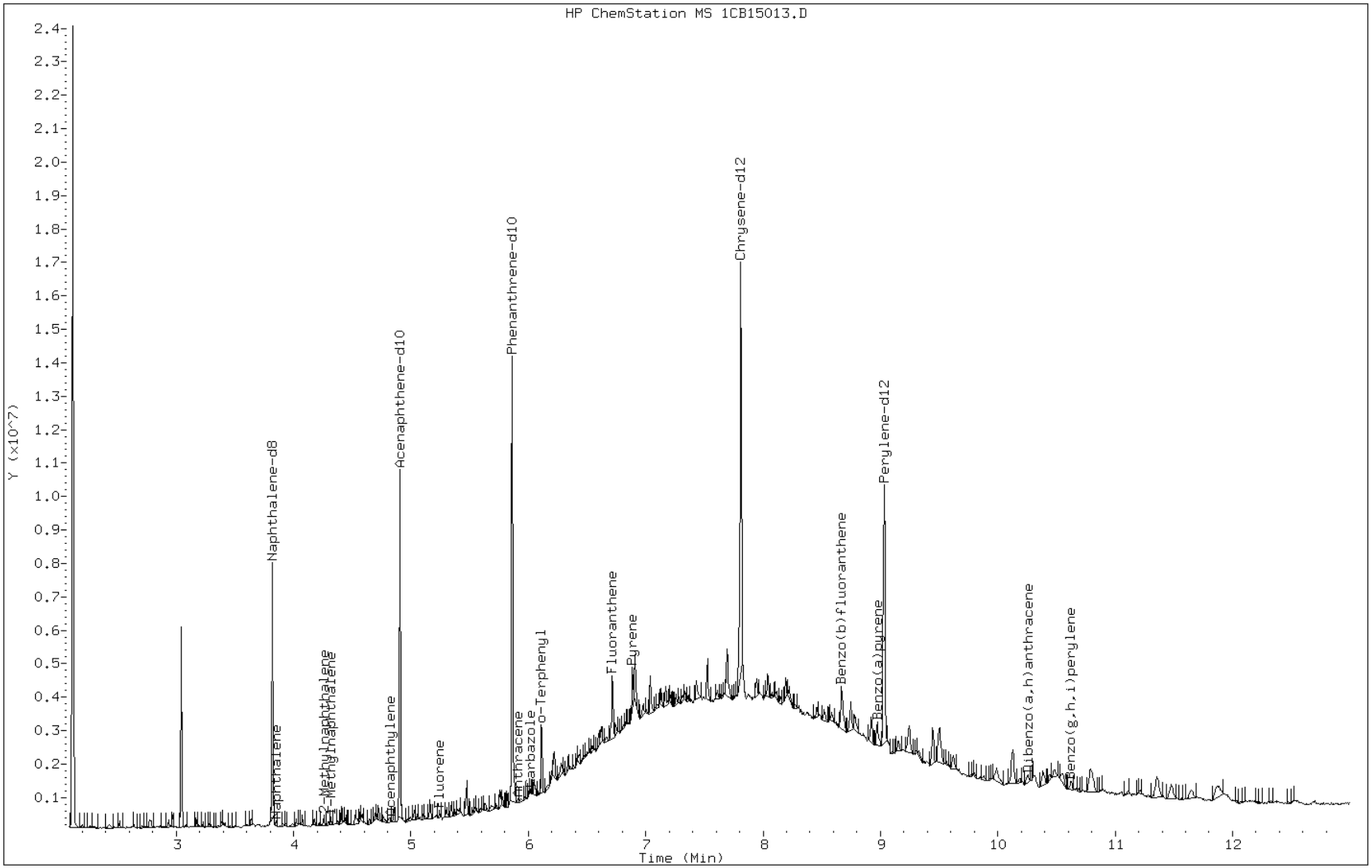
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS | Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a | Operator: SCC



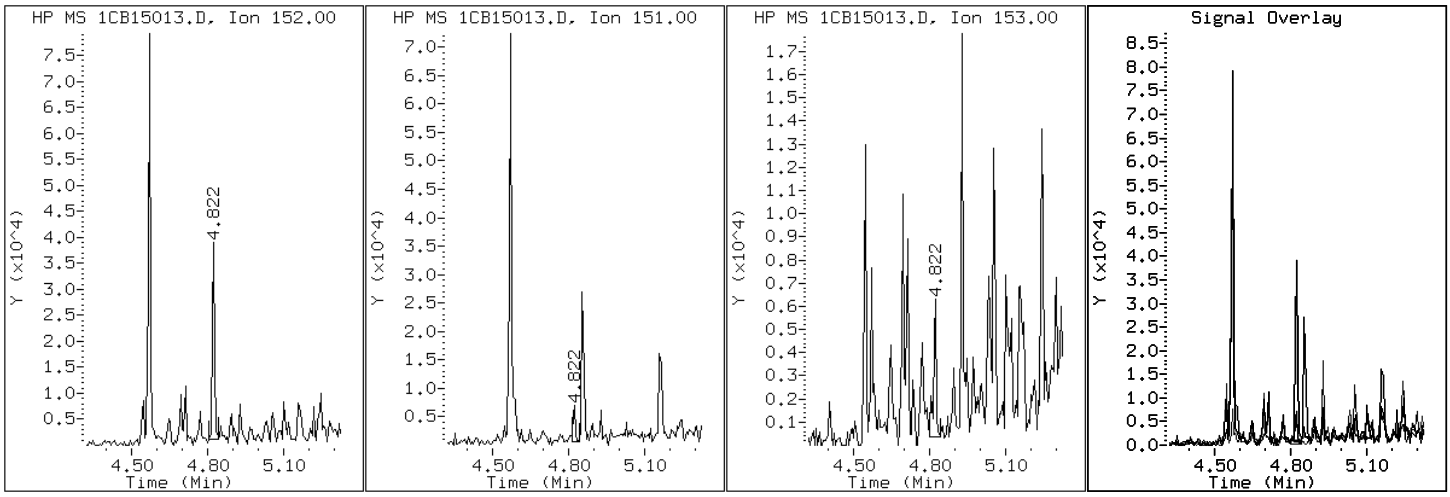
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

5 Acenaphthylene



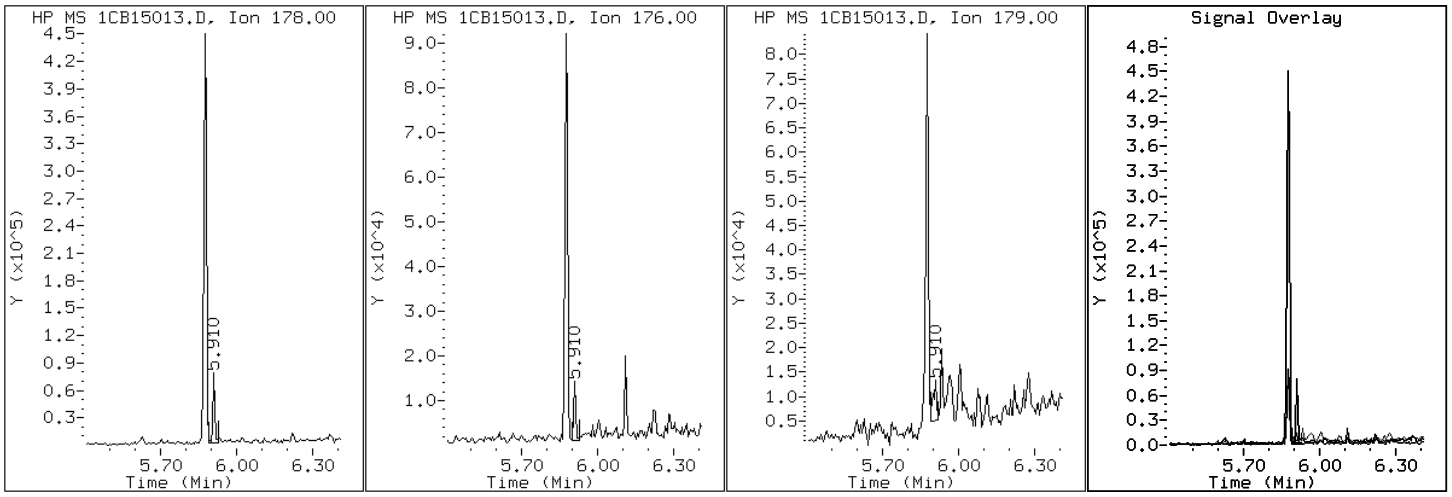
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

12 Anthracene



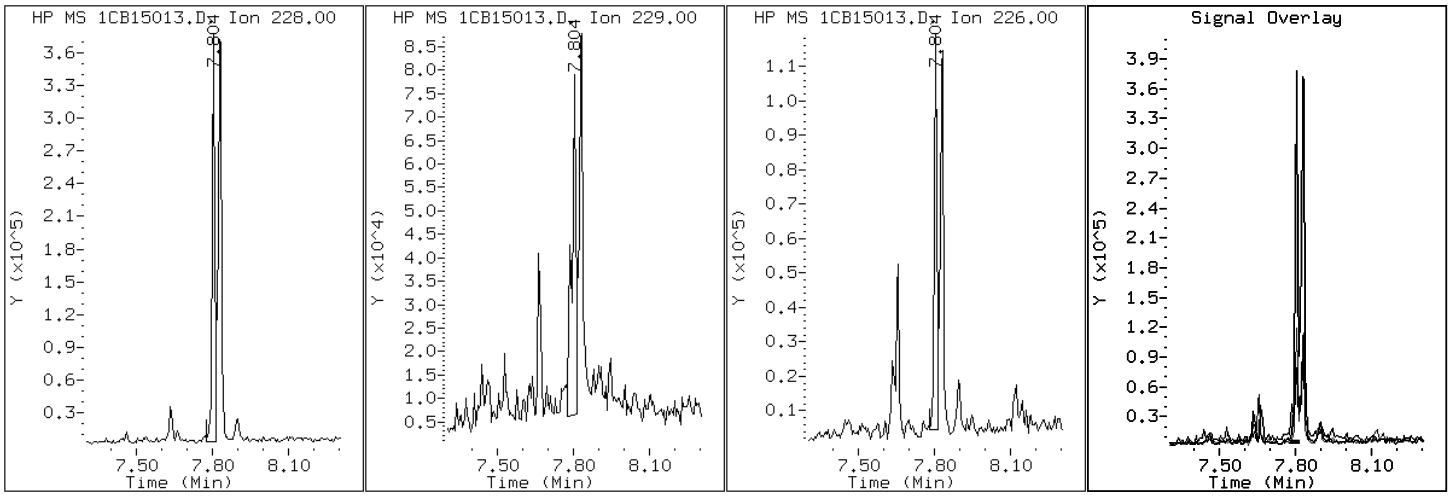
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

17 Benzo(a)anthracene



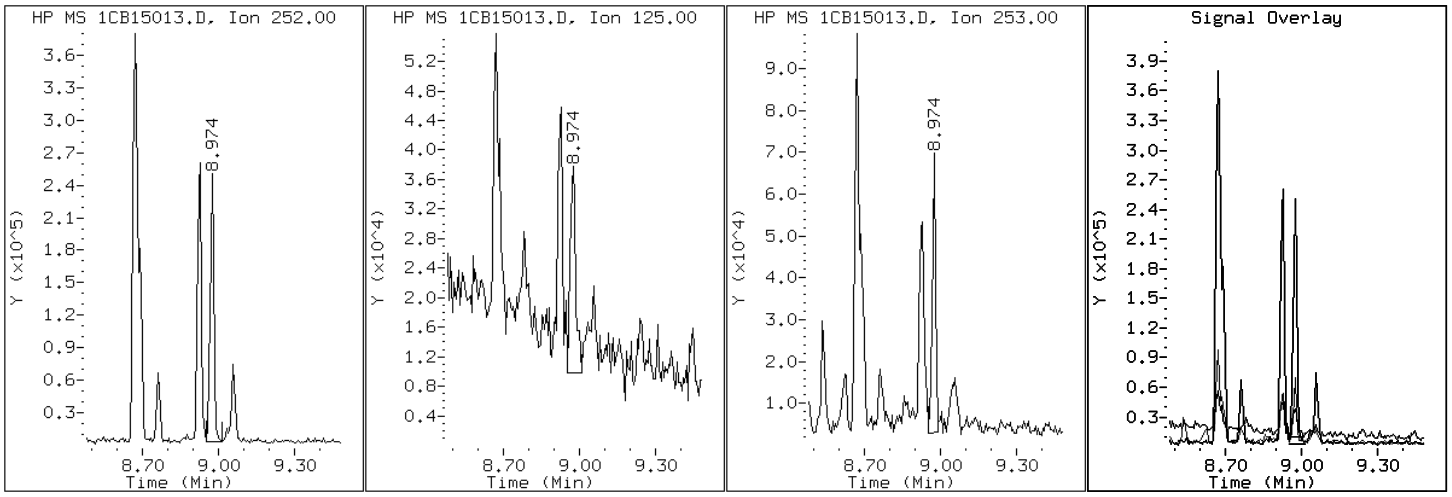
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

22 Benzo(a)pyrene



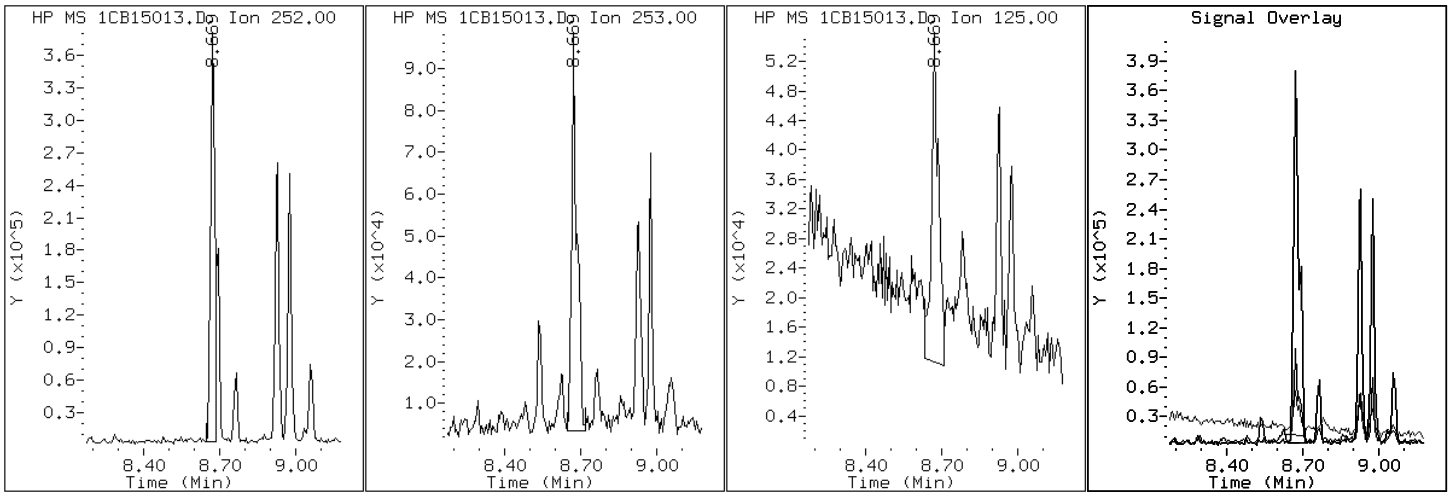
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

20 Benzo(b)fluoranthene



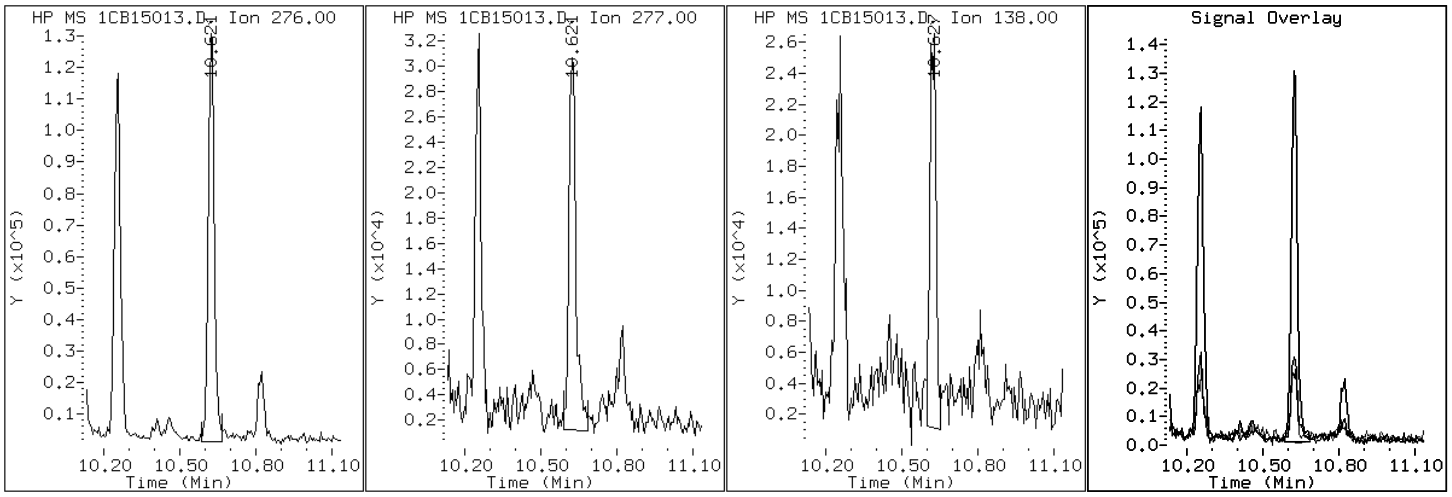
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

26 Benzo(g,h,i)perylene



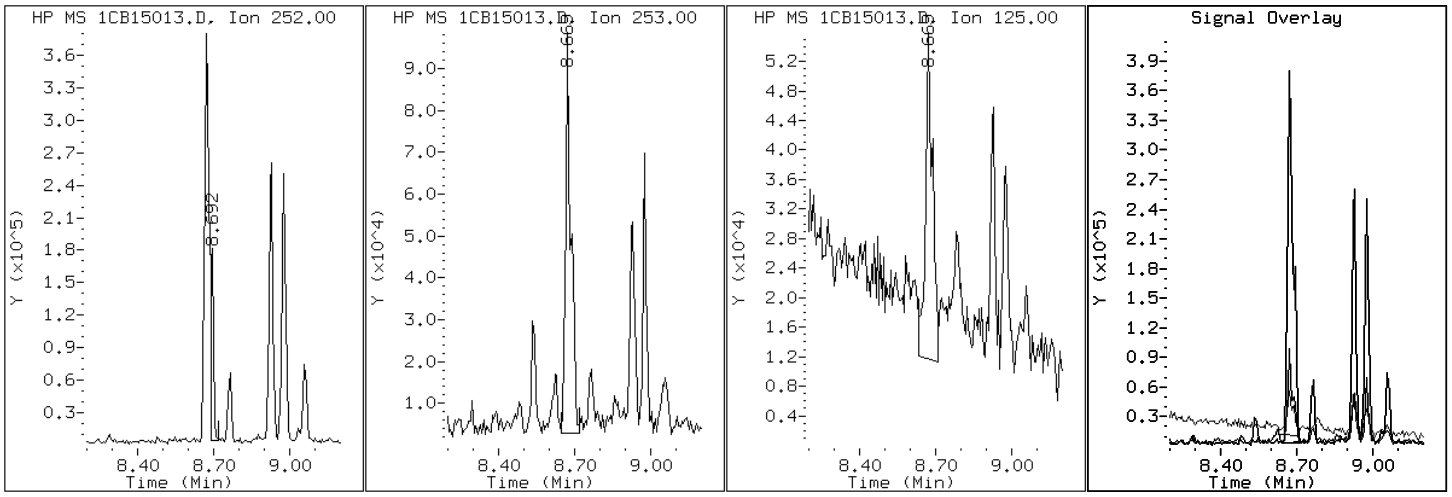
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

21 Benzo(k)fluoranthene



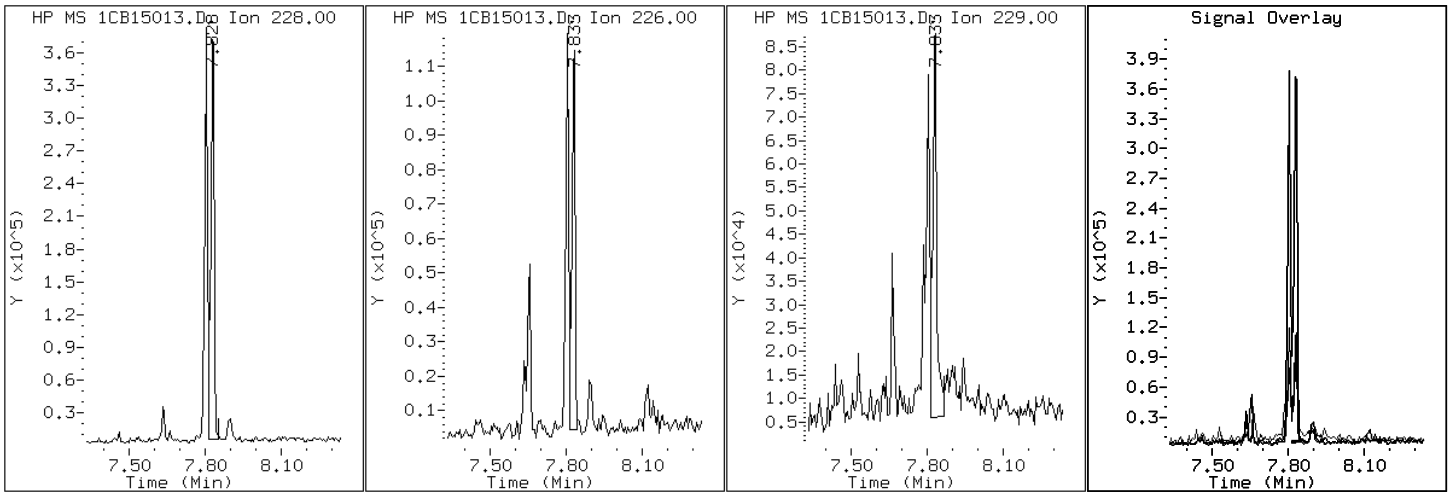
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

19 Chrysene



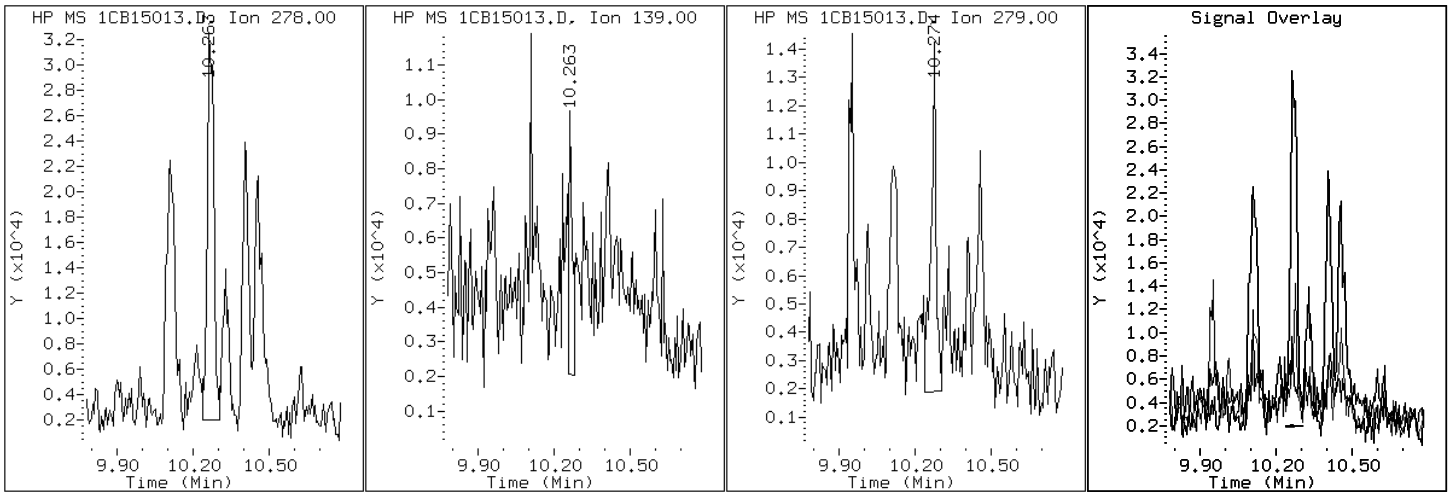
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

25 Dibenzo(a,h)anthracene



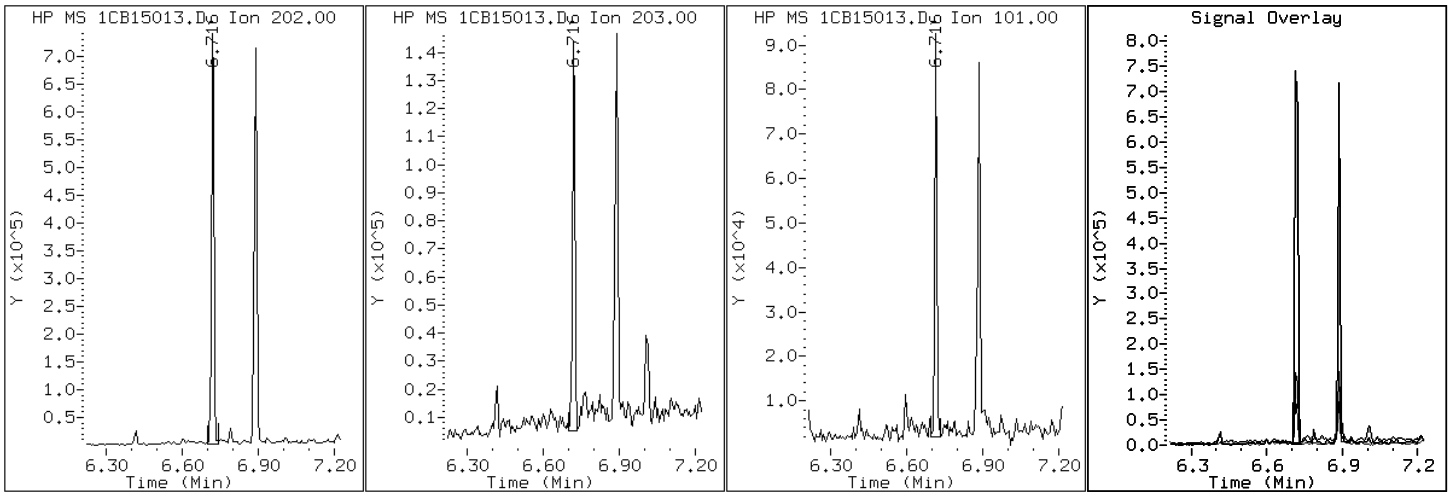
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

15 Fluoranthene



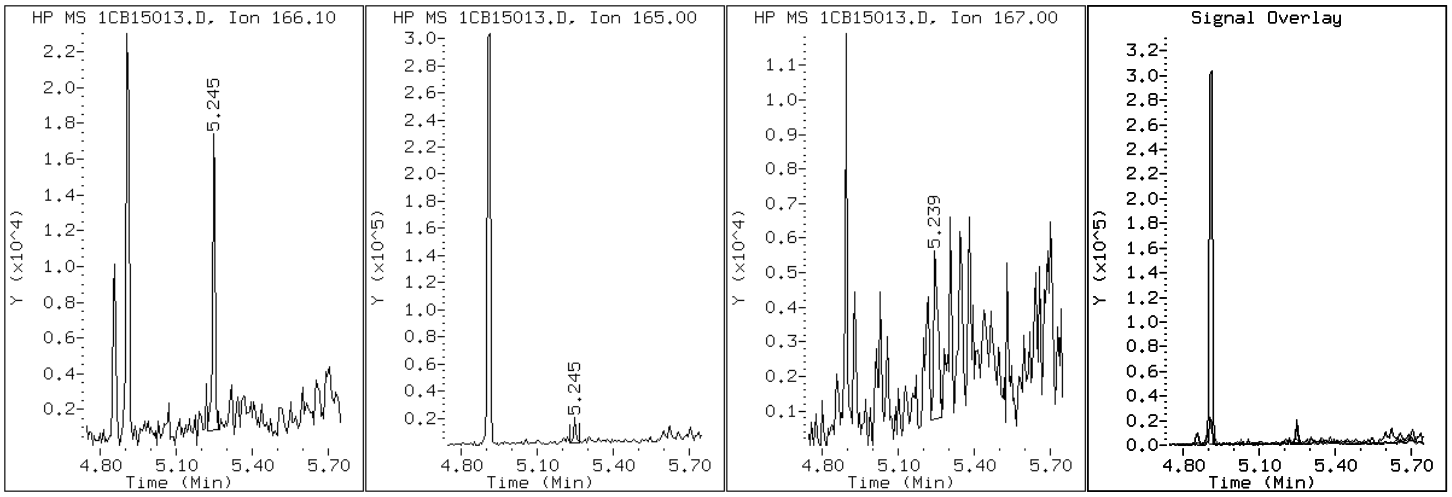
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

9 Fluorene



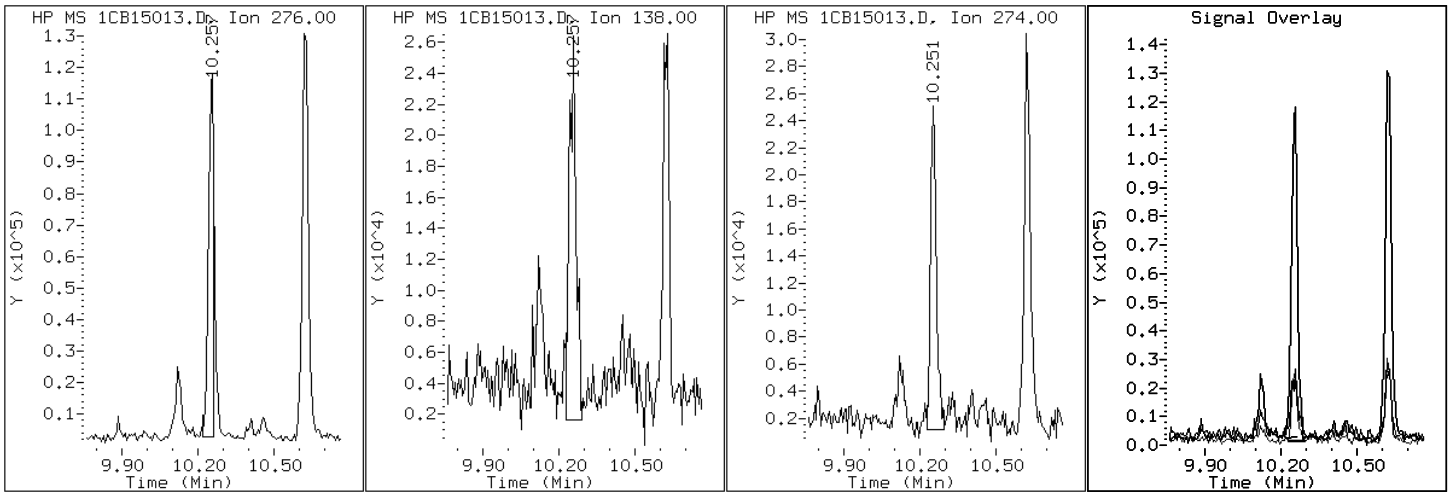
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

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



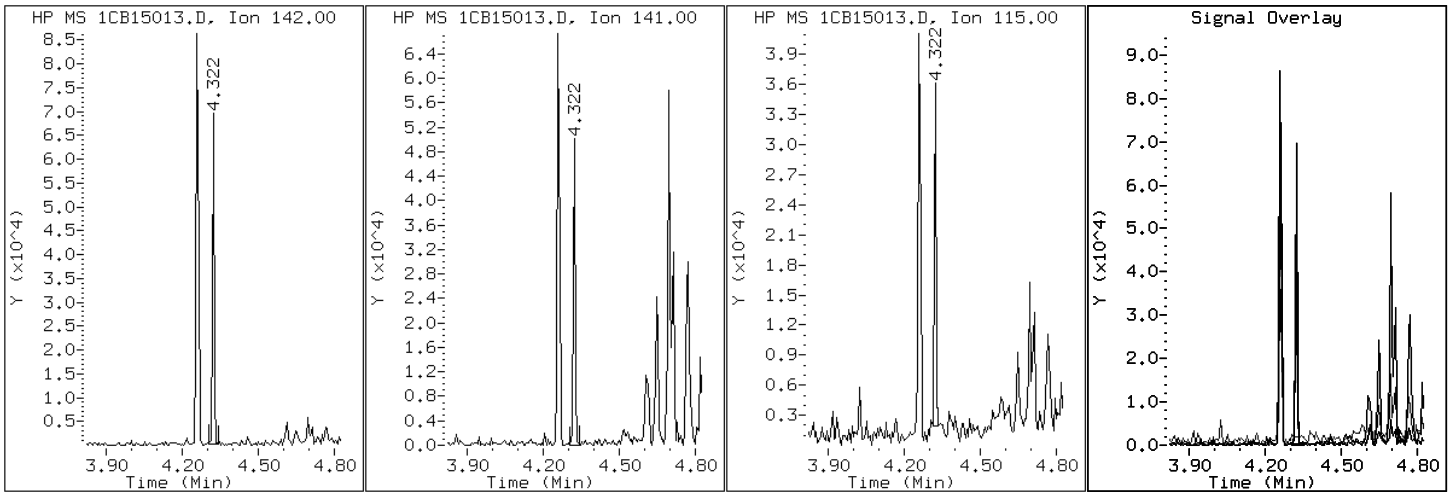
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

4 1-Methylnaphthalene



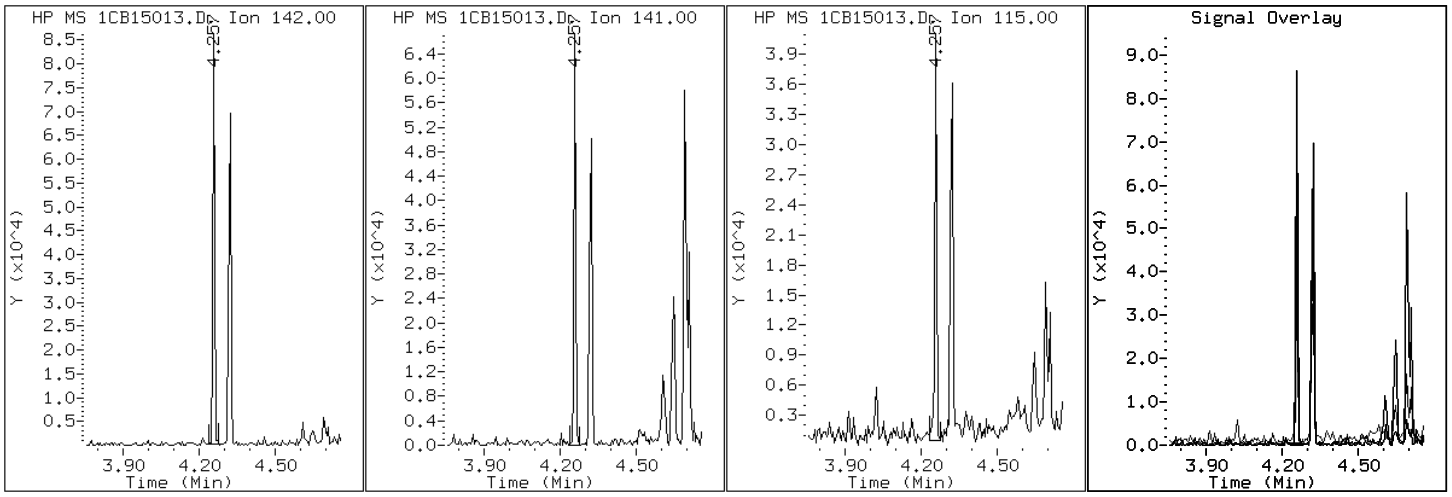
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

3 2-Methylnaphthalene



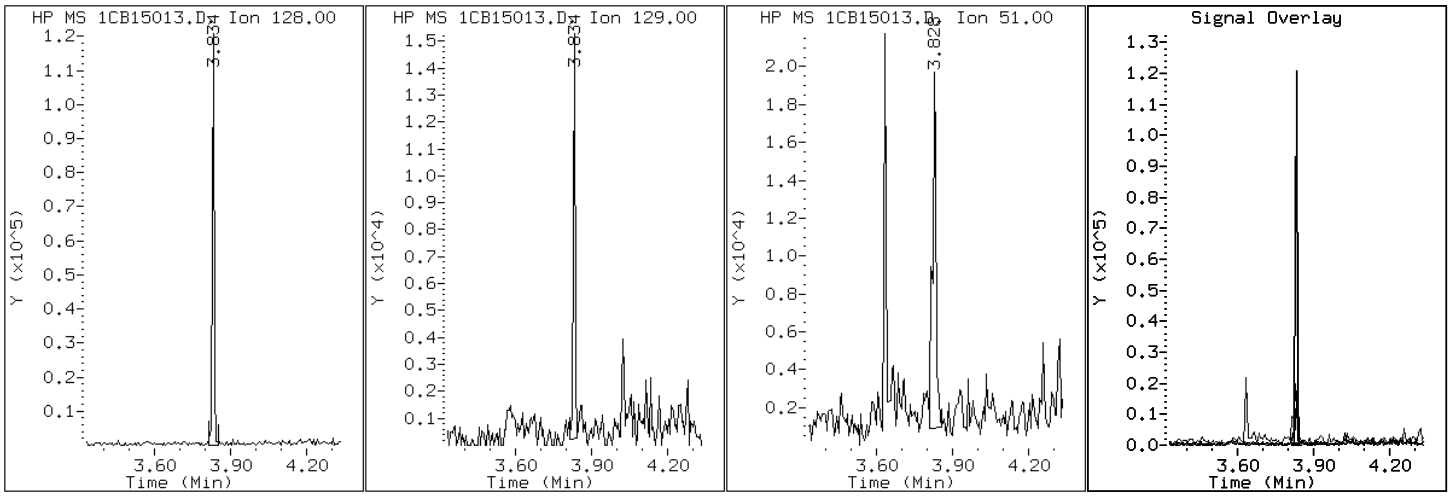
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

2 Naphthalene



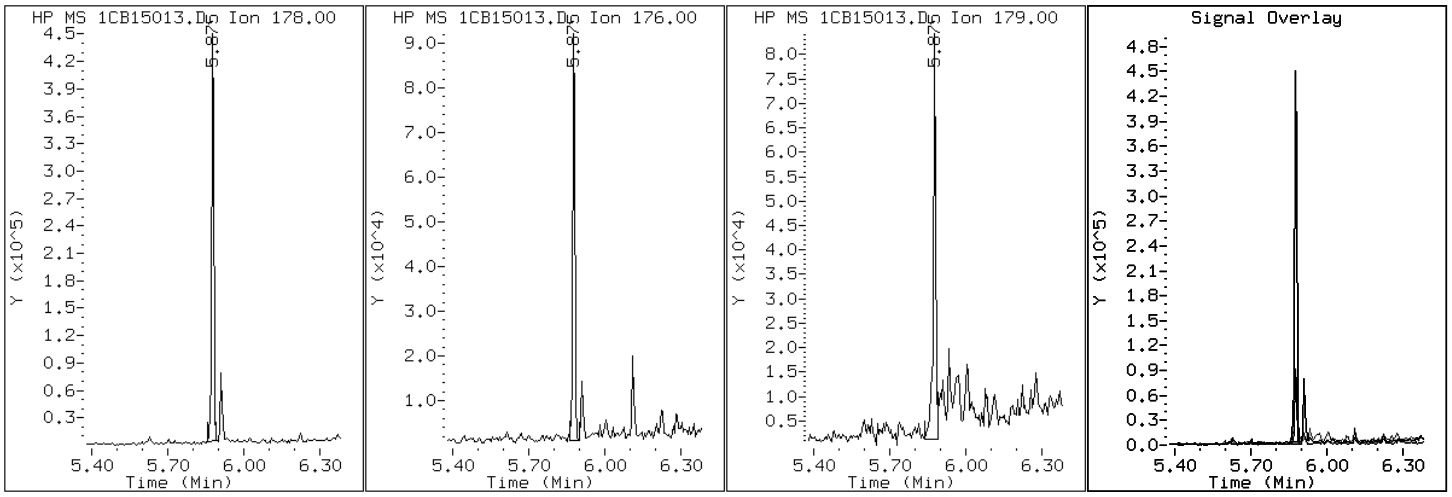
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

11 Phenanthrene



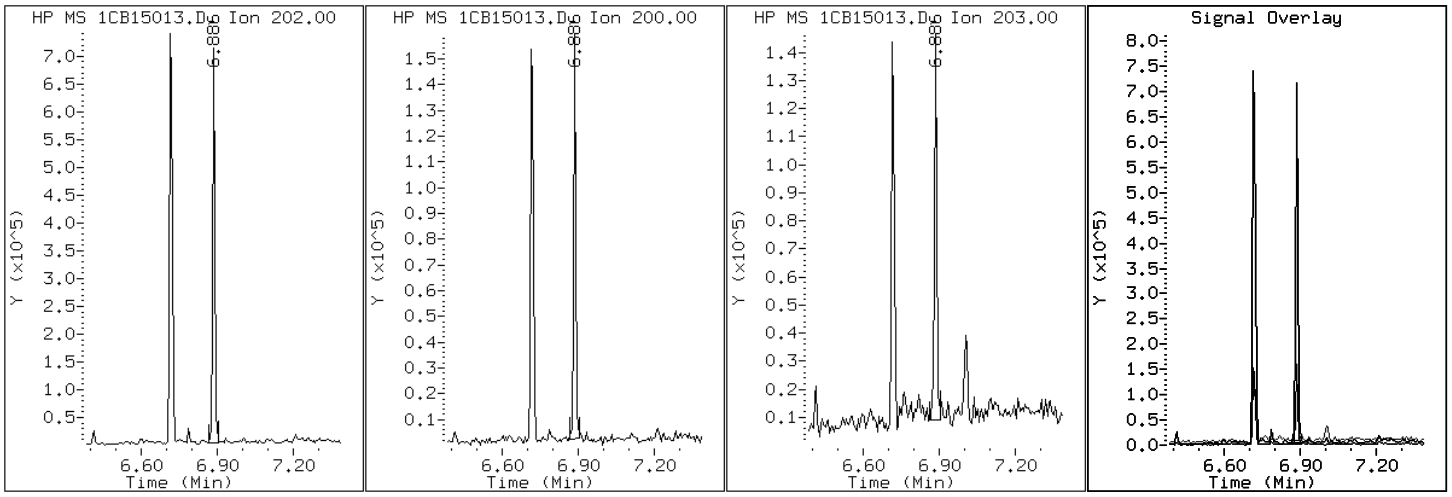
Data File: 1CB15013.D

Date: 15-FEB-2013 14:51

Client ID: CV0005D-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-6-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15013.D
Inj. Date and Time: 15-FEB-2013 14:51
Instrument ID: BSMC5973.i
Client ID: CV0005D-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

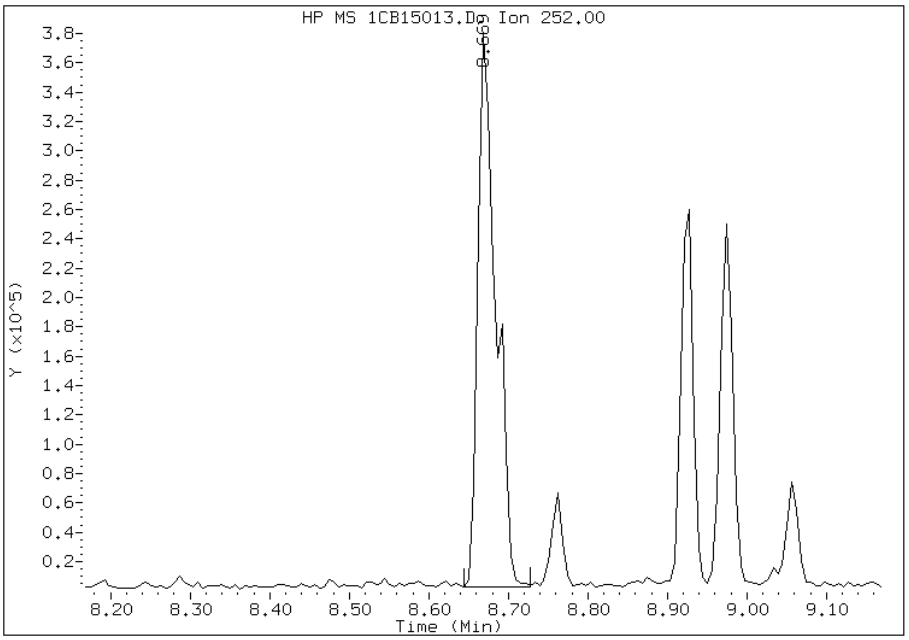
Processing Integration Results

RT: 8.67

Response: 598523

Amount: 8

Conc: 536



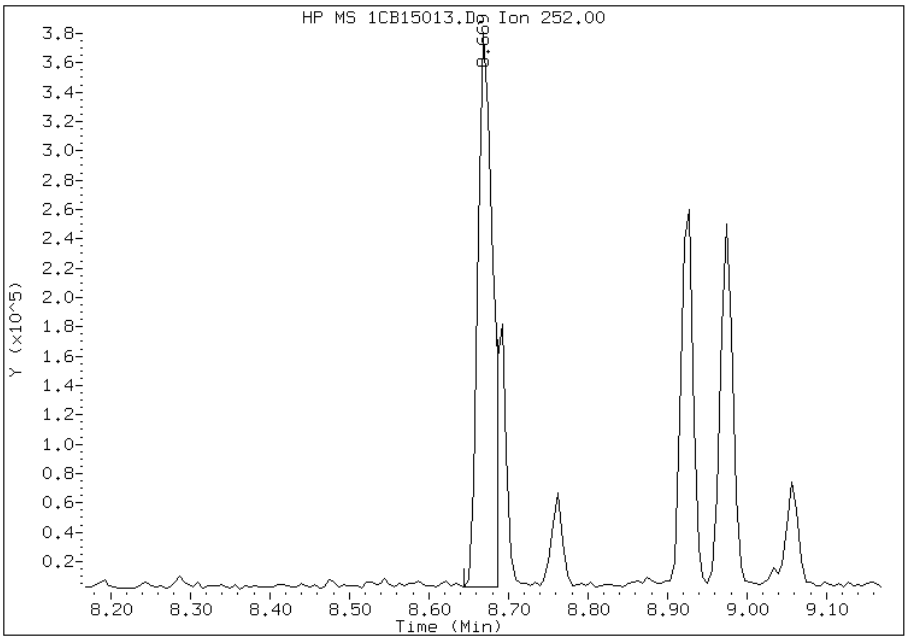
Manual Integration Results

RT: 8.67

Response: 491838

Amount: 6

Conc: 441



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15013.D
Inj. Date and Time: 15-FEB-2013 14:51
Instrument ID: BSMC5973.i
Client ID: CV0005D-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

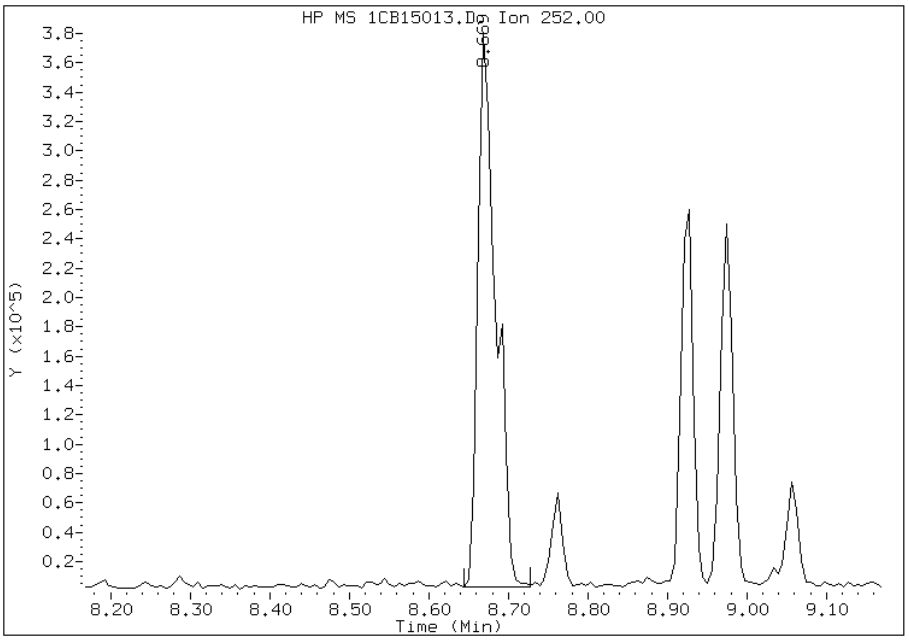
Processing Integration Results

RT: 8.67

Response: 598991

Amount: 7

Conc: 487



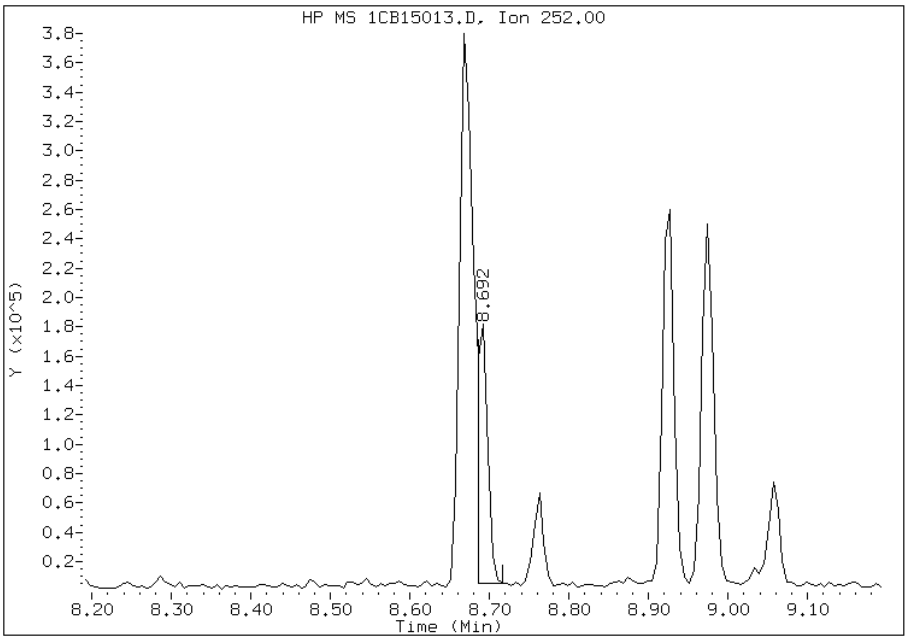
Manual Integration Results

RT: 8.69

Response: 156317

Amount: 2

Conc: 127



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15013.D
Inj. Date and Time: 15-FEB-2013 14:51
Instrument ID: BSMC5973.i
Client ID: CV0005D-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

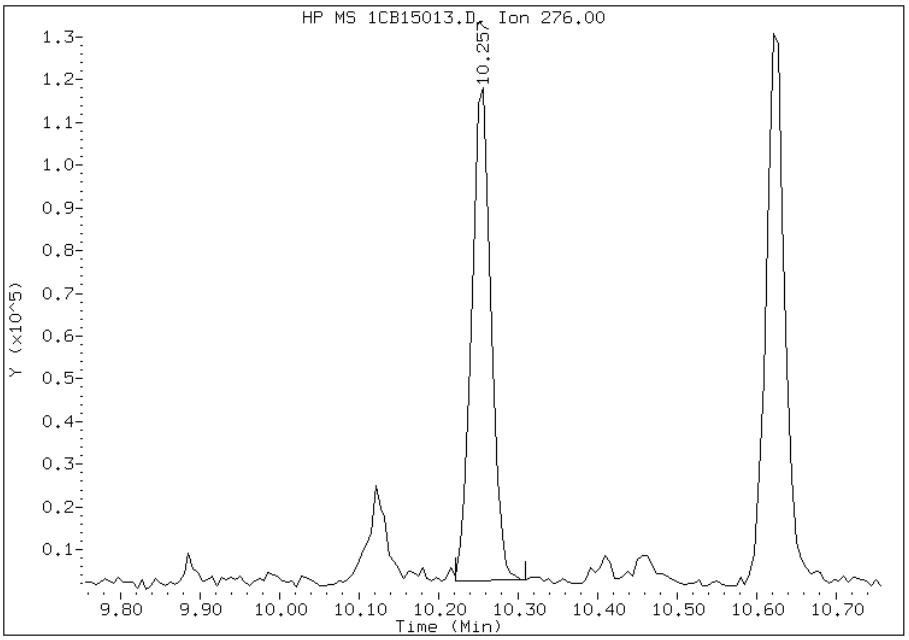
Processing Integration Results

RT: 10.26

Response: 194561

Amount: 3

Conc: 191



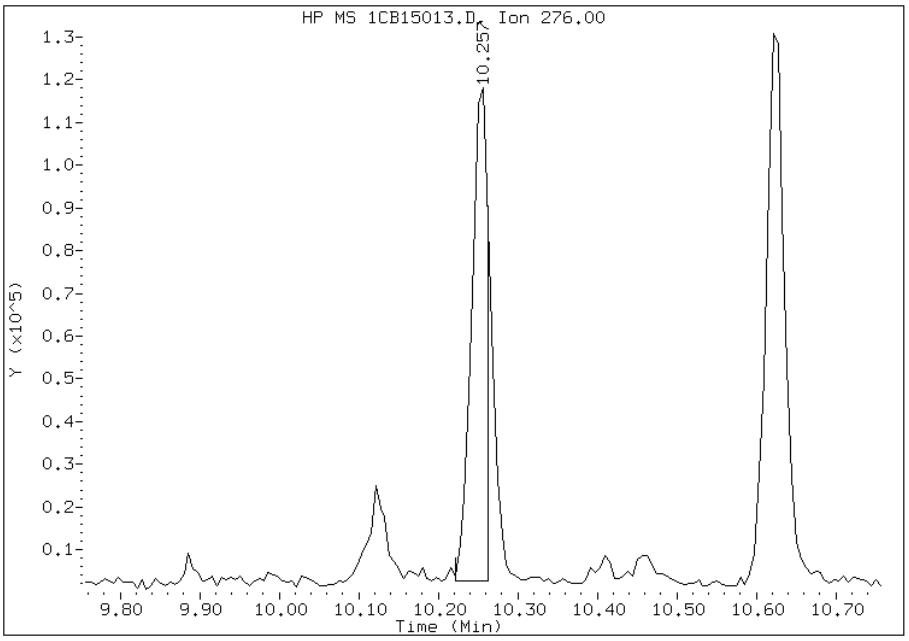
Manual Integration Results

RT: 10.26

Response: 162224

Amount: 2

Conc: 159



Manually Integrated By: cantins
Modification Date: 18-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.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005E-CS | Lab Sample ID: 680-87318-7

Matrix: Solid | Lab File ID: 1CB15015.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 10:53

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.35(g) | Date Analyzed: 02/15/2013 15:28

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

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

% Moisture: 11.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	22	J	44	5.5
120-12-7	Anthracene	26		9.3	4.6
56-55-3	Benzo[a]anthracene	160		8.8	4.3
50-32-8	Benzo[a]pyrene	190		11	5.7
205-99-2	Benzo[b]fluoranthene	290		13	6.7
191-24-2	Benzo[g,h,i]perylene	150		22	4.8
207-08-9	Benzo[k]fluoranthene	120		8.8	4.0
218-01-9	Chrysene	200		9.9	5.0
53-70-3	Dibenz(a,h)anthracene	39		22	4.5
206-44-0	Fluoranthene	280		22	4.4
86-73-7	Fluorene	8.8	J	22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	120		22	7.8
90-12-0	1-Methylnaphthalene	37	J	44	4.8
91-57-6	2-Methylnaphthalene	50		44	7.8
91-20-3	Naphthalene	54		44	4.8
85-01-8	Phenanthrene	130		8.8	4.3
129-00-0	Pyrene	270		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15015.D
Lab Smp Id: 680-87318-A-7-A Client Smp ID: CV0005E-CS
Inj Date : 15-FEB-2013 15:28
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-7-a
Misc Info : 680-87318-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.350	Weight Extracted
M	11.290	% 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	3.821	3.821	(1.000)	2451589	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1862058	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3466730	40.0000	
$ 14 o-Terphenyl	230	6.109	6.115	(1.042)	308918	6.08160	446.6203
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3615652	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3384949	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	47952	0.73813	54.2069
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	28707	0.67960	49.9083
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	19335	0.50328	36.9601
5 Acenaphthylene	152	4.821	4.821	(0.982)	22023	0.29728	21.8319
9 Fluorene	166	5.245	5.245	(1.068)	7158	0.12002	8.8138
11 Phenanthrene	178	5.874	5.880	(1.002)	185136	1.78911	131.3883
12 Anthracene	178	5.910	5.910	(1.008)	32695	0.35068	25.7535
13 Carbazole	167	6.015	6.015	(1.026)	25951	0.32045	23.5331

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	388250	3.83973	281.9819
16 Pyrene	202	6.886	6.886	(0.882)	354204	3.67976	270.2337
17 Benzo(a)anthracene	228	7.798	7.804	(0.998)	213623	2.14252	157.3420
19 Chrysene	228	7.827	7.833	(1.002)	286849	2.78517	204.5370
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	324659	3.91212	287.2984(M)
21 Benzo(k)fluoranthene	252	8.680	8.698	(0.961)	143593	1.57061	115.3421(M)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	204235	2.58631	189.9335
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	125120	1.64964	121.1463(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	37672	0.52670	38.6796
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	156729	2.03425	149.3910

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB15015.D

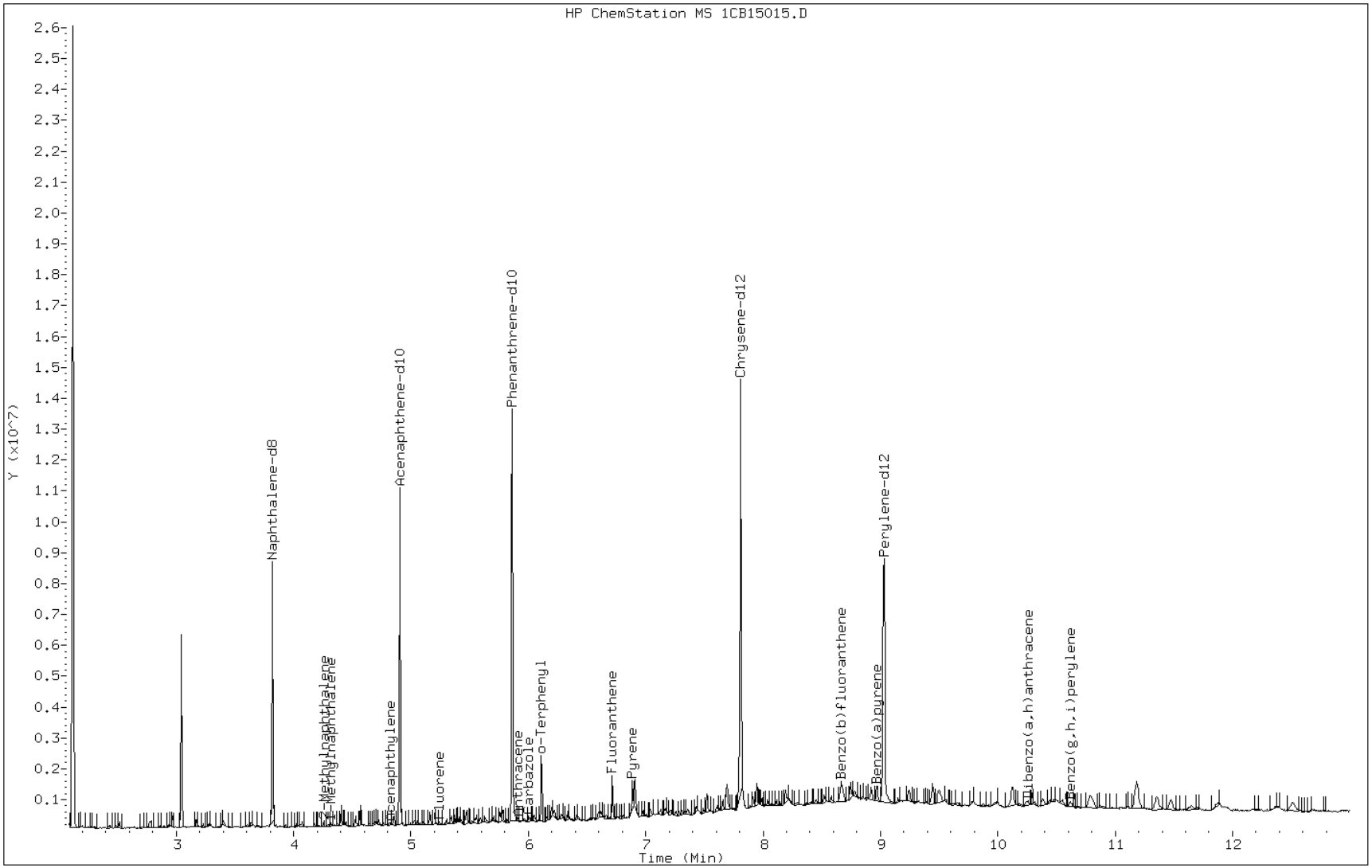
Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a

Operator: SCC



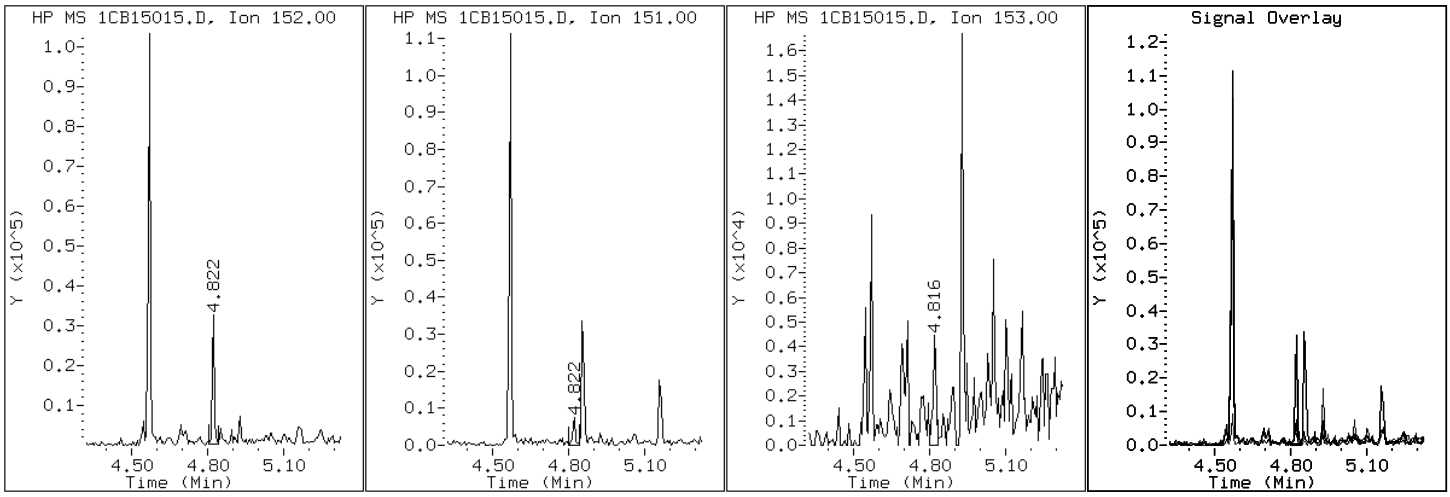
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

5 Acenaphthylene



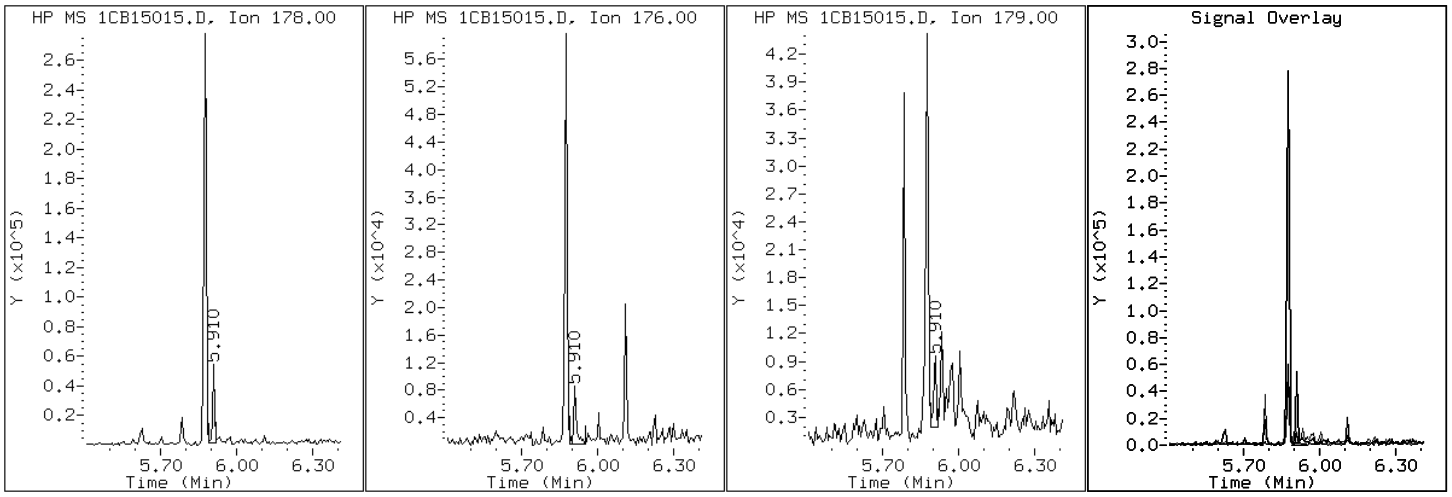
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

12 Anthracene



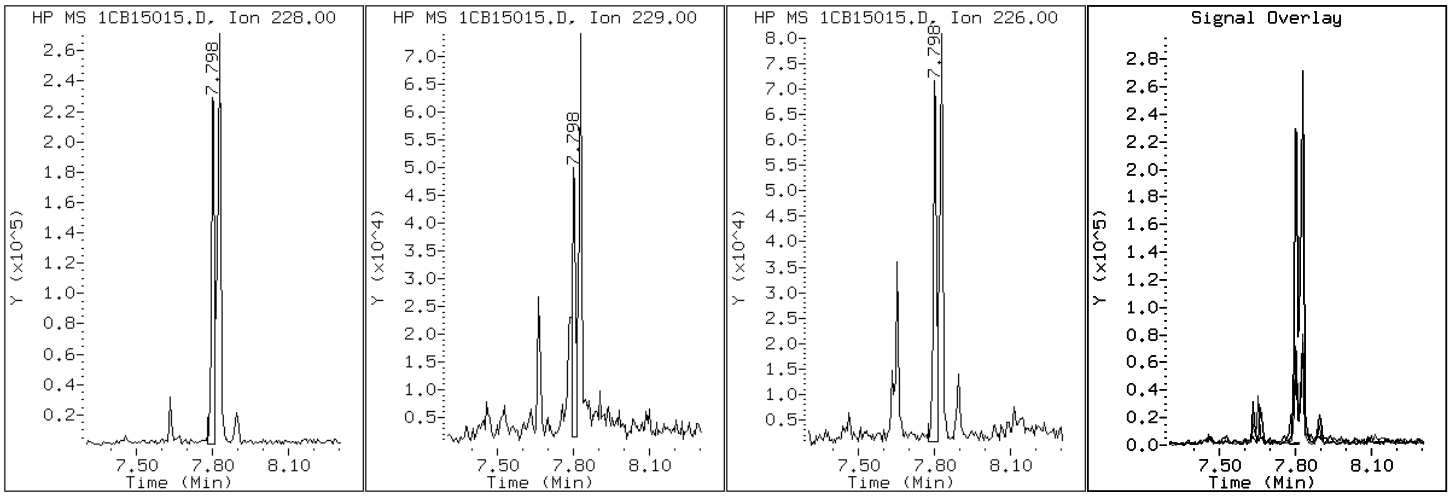
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

17 Benzo(a)anthracene



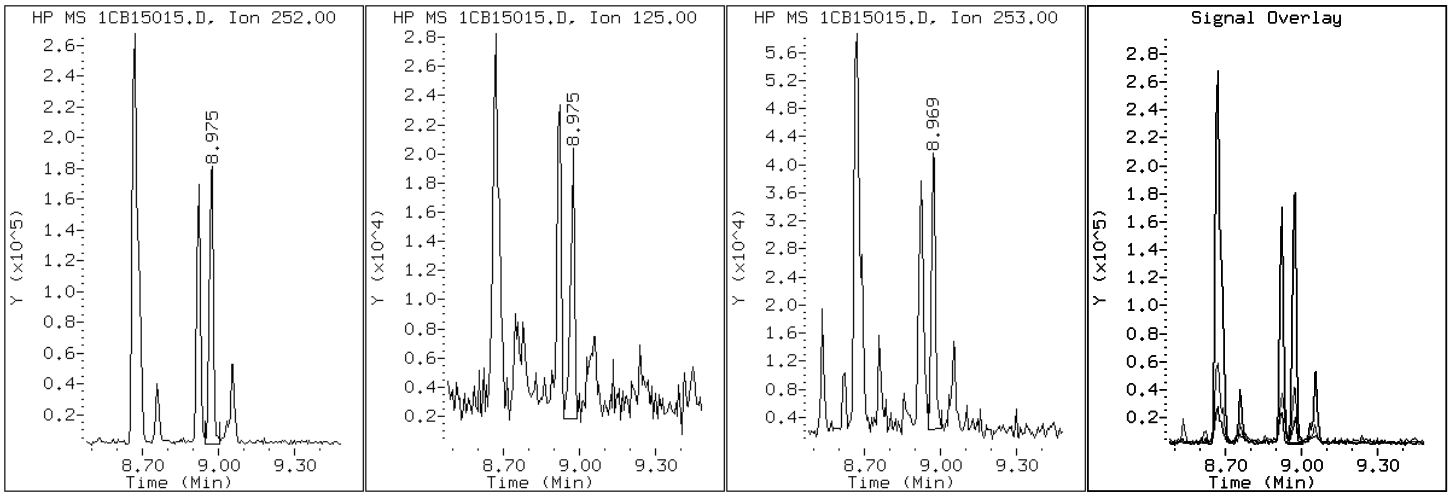
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

22 Benzo(a)pyrene



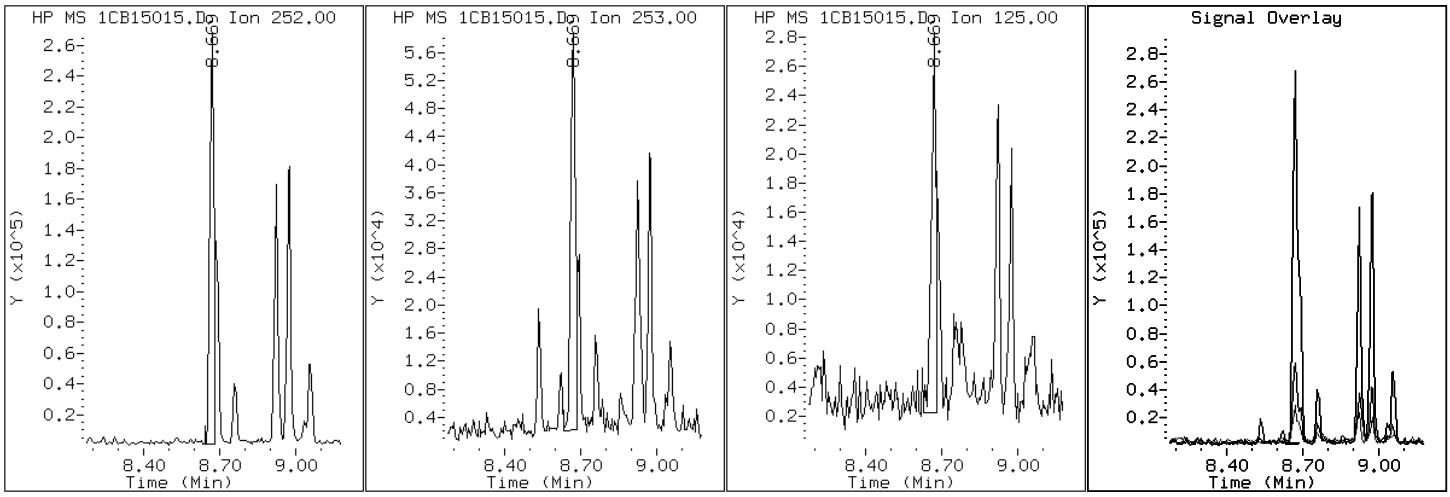
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



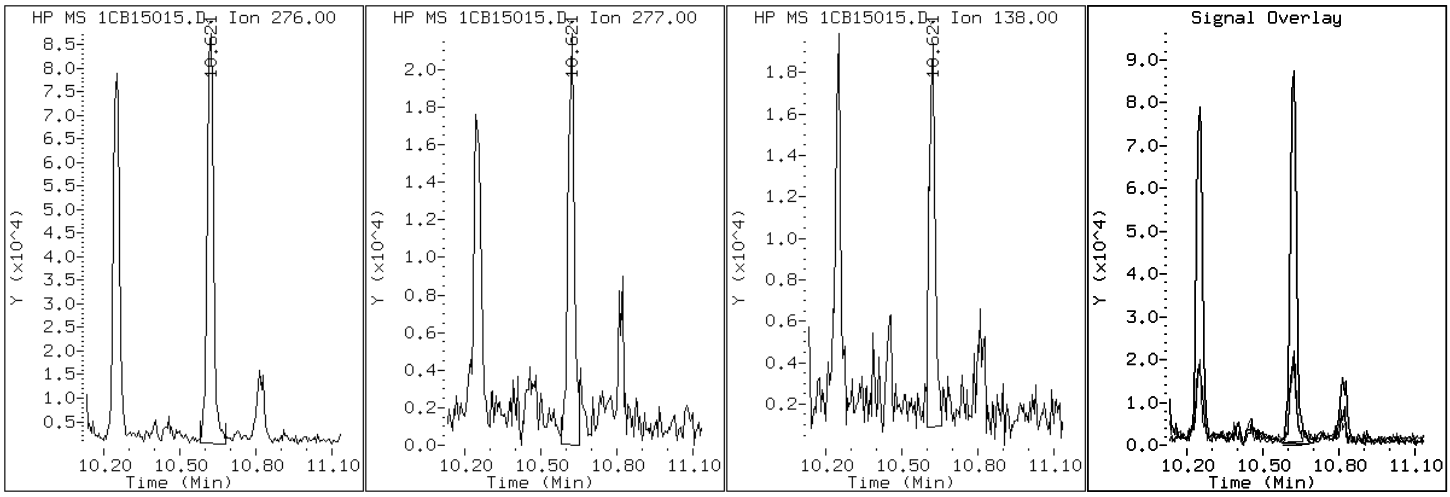
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



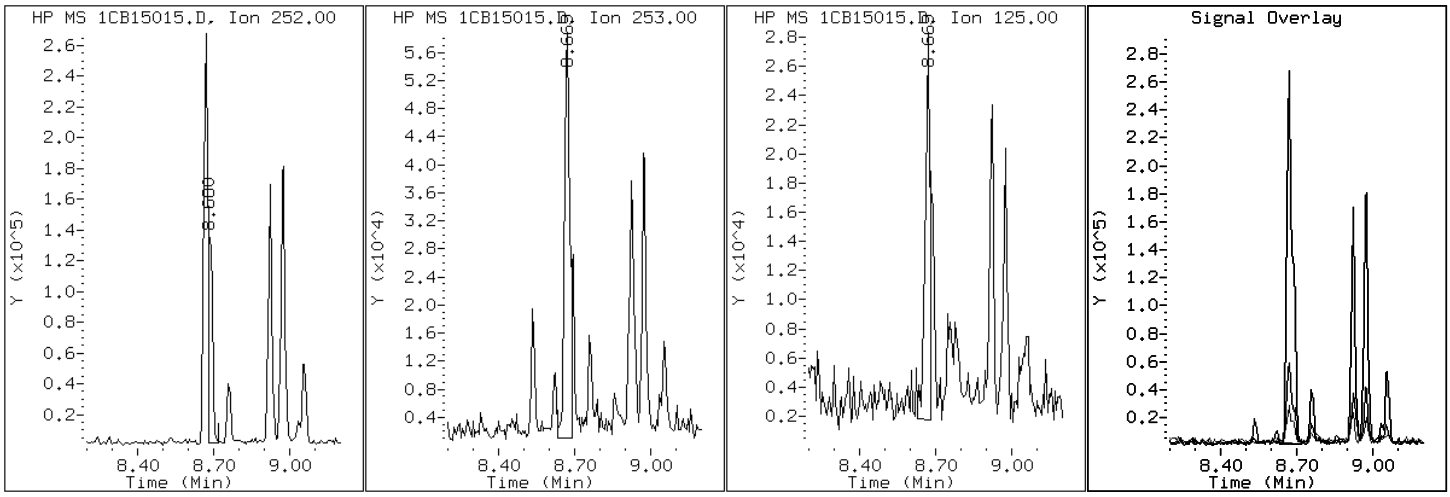
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

21 Benzo(k)fluoranthene



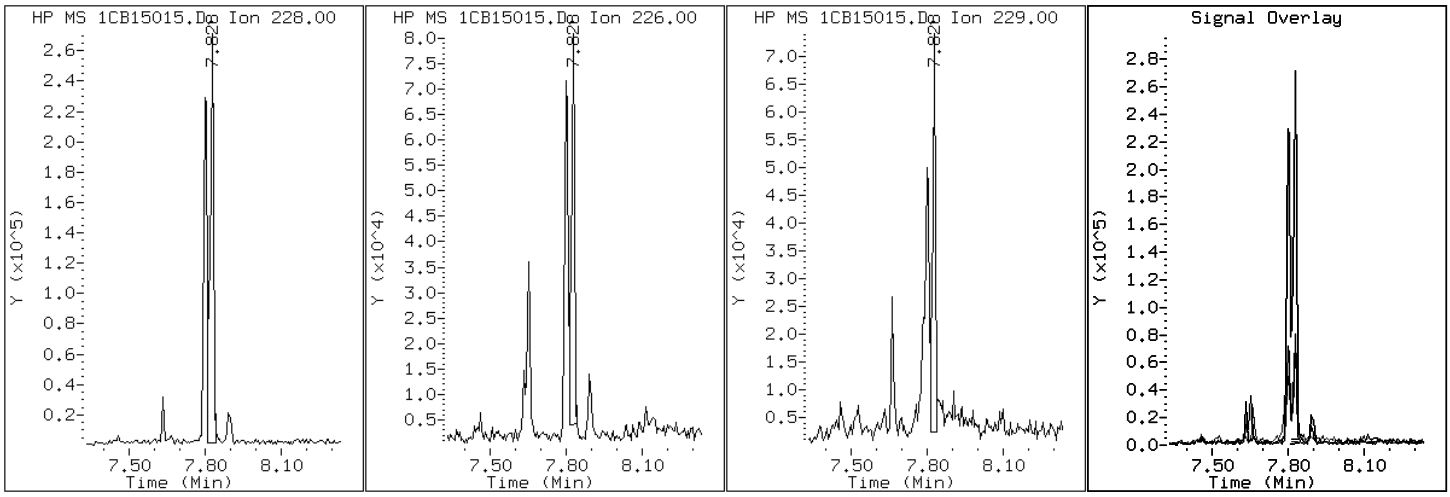
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

19 Chrysene



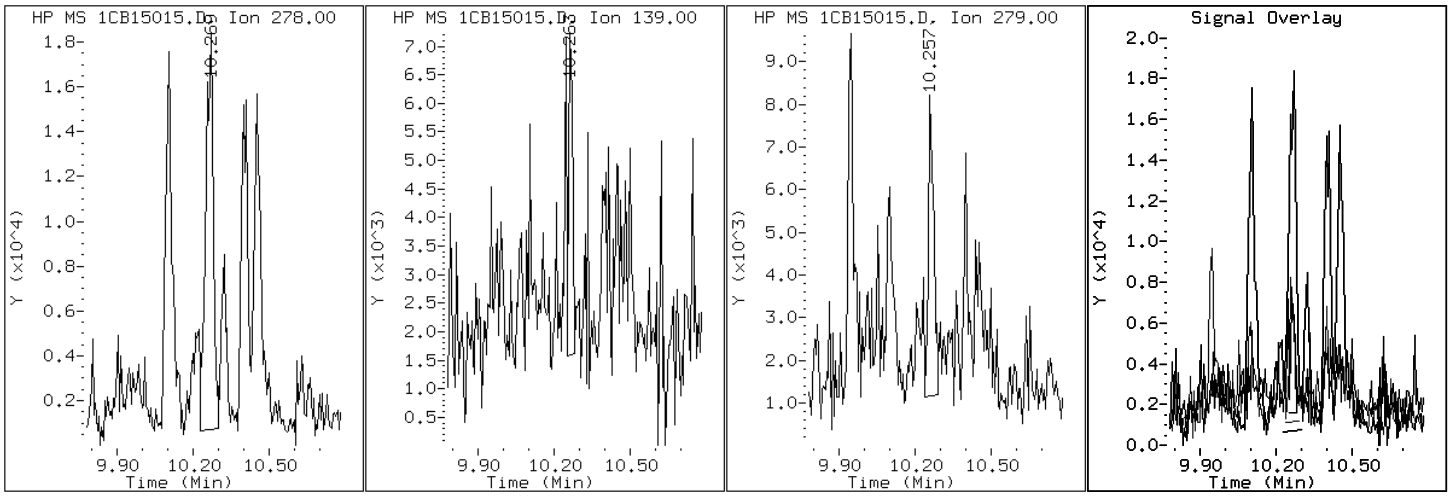
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

25 Dibenzo(a,h)anthracene



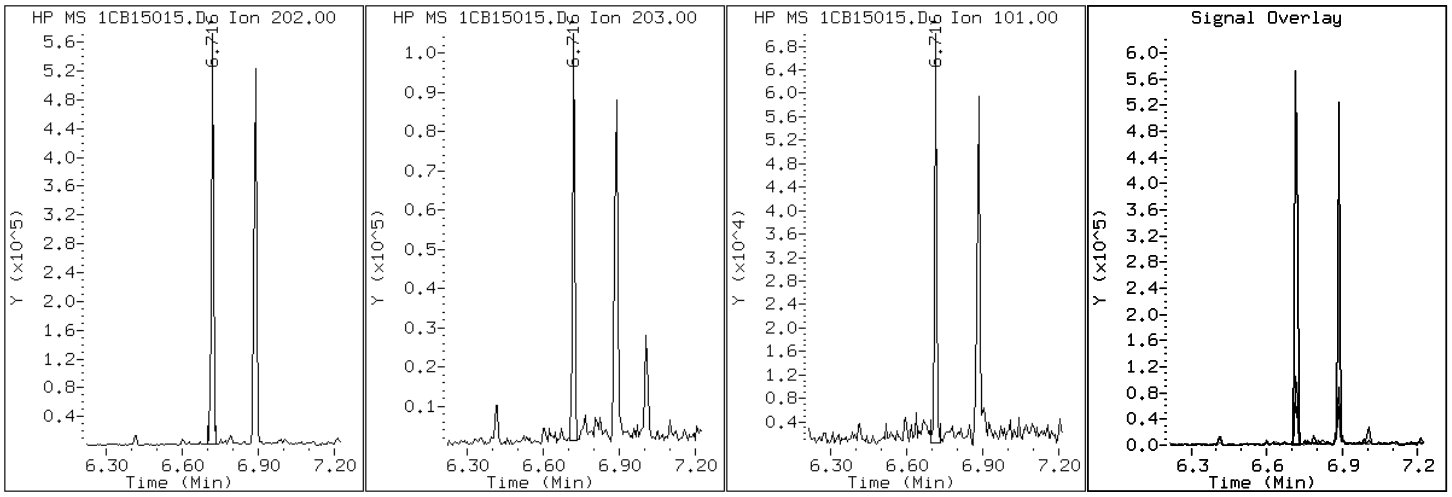
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

15 Fluoranthene



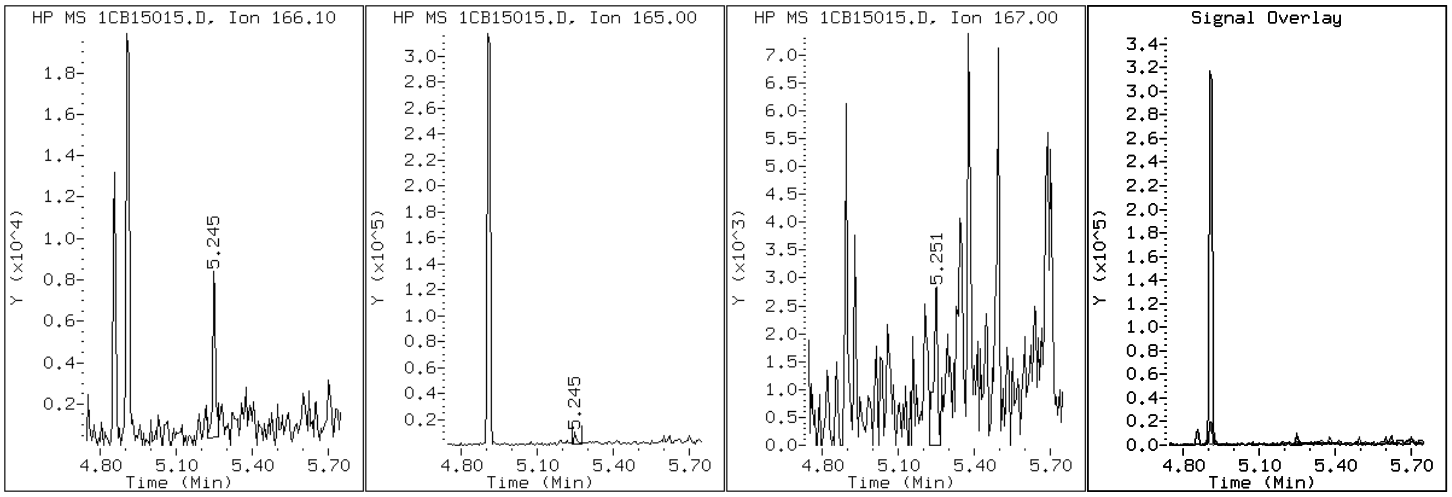
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

9 Fluorene



Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

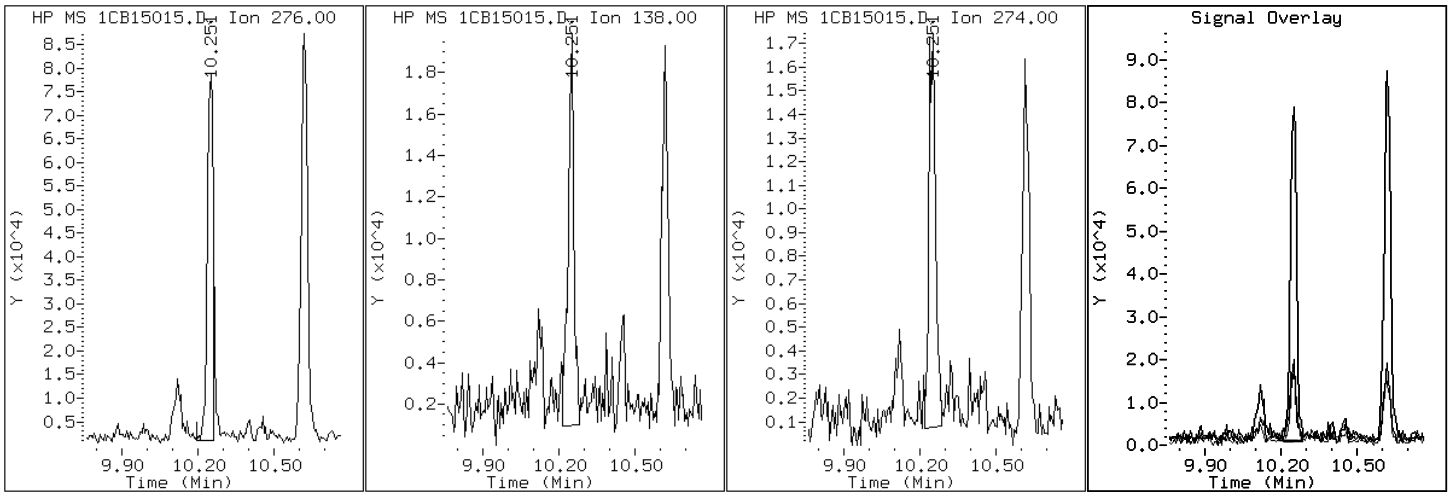
Client ID: CV0005E-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a

Operator: SCC

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



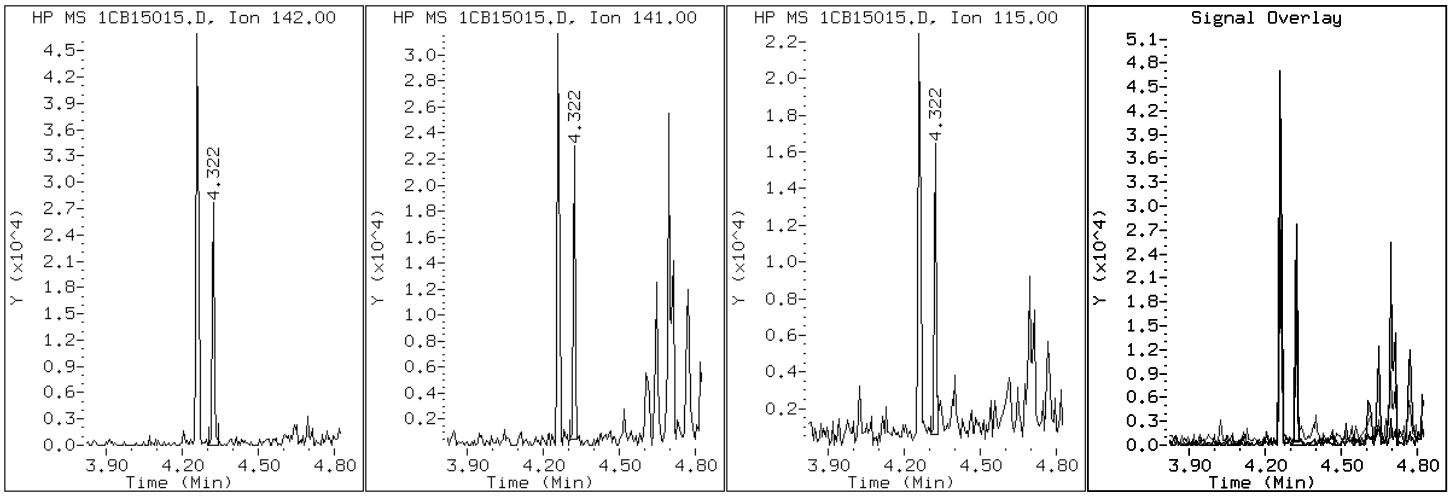
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

4 1-Methylnaphthalene



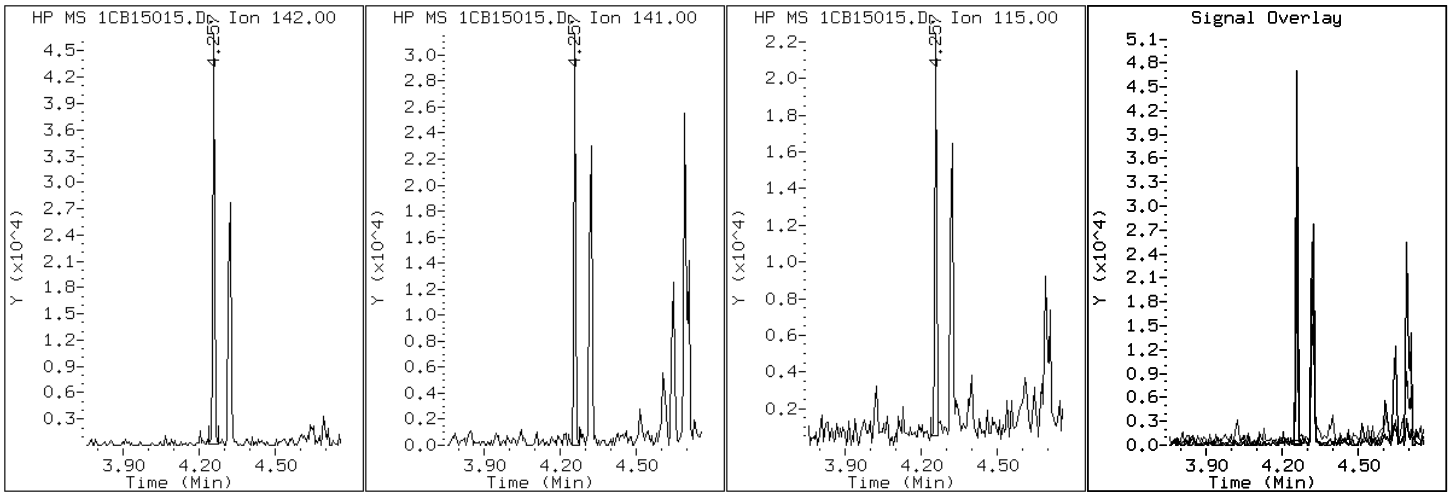
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

3 2-Methylnaphthalene



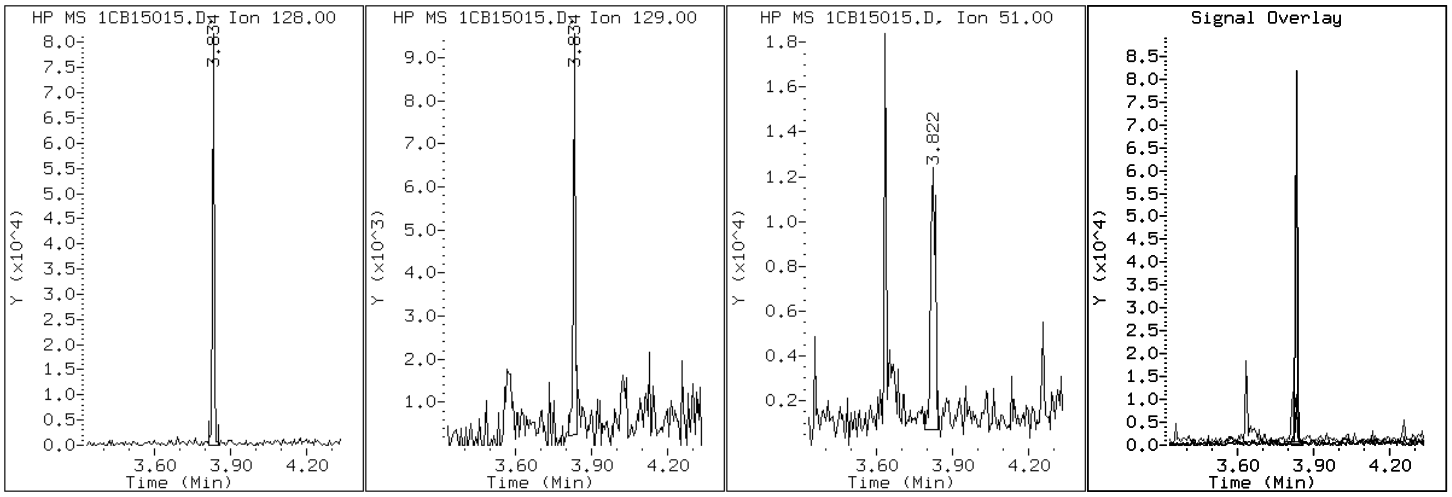
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

2 Naphthalene



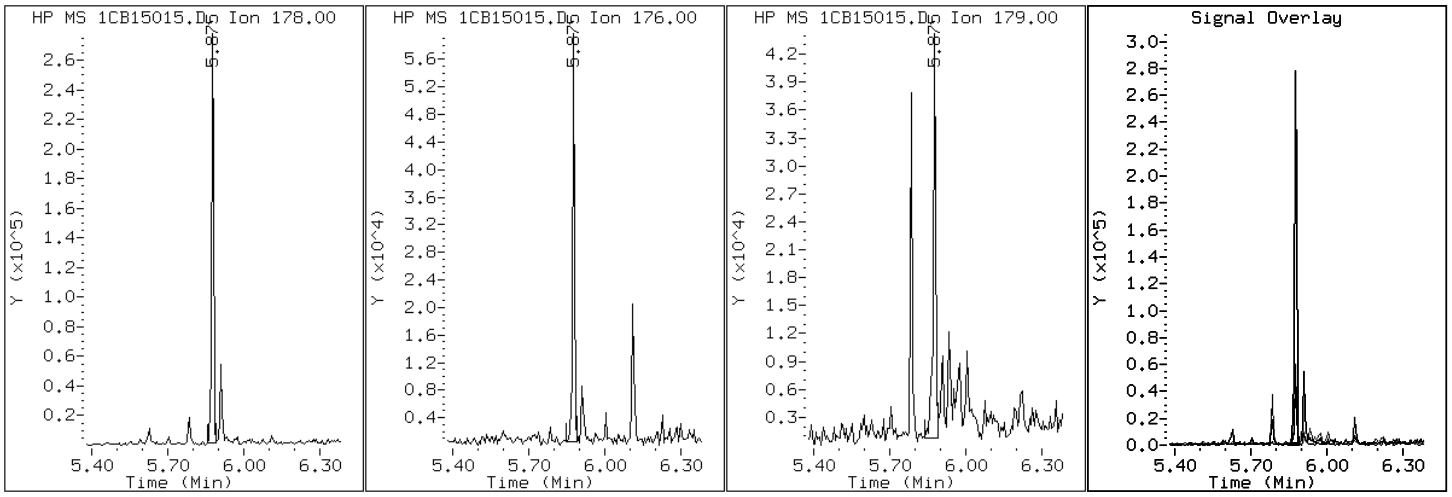
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

11 Phenanthrene



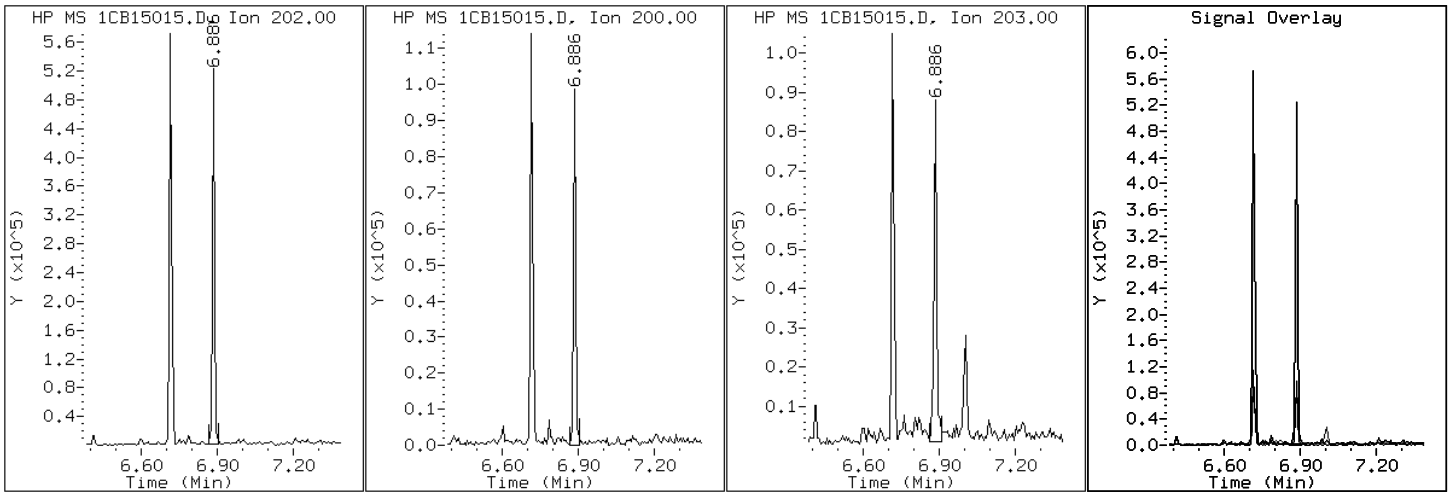
Data File: 1CB15015.D

Date: 15-FEB-2013 15:28

Client ID: CV0005E-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-7-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15015.D
Inj. Date and Time: 15-FEB-2013 15:28
Instrument ID: BSMC5973.i
Client ID: CV0005E-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

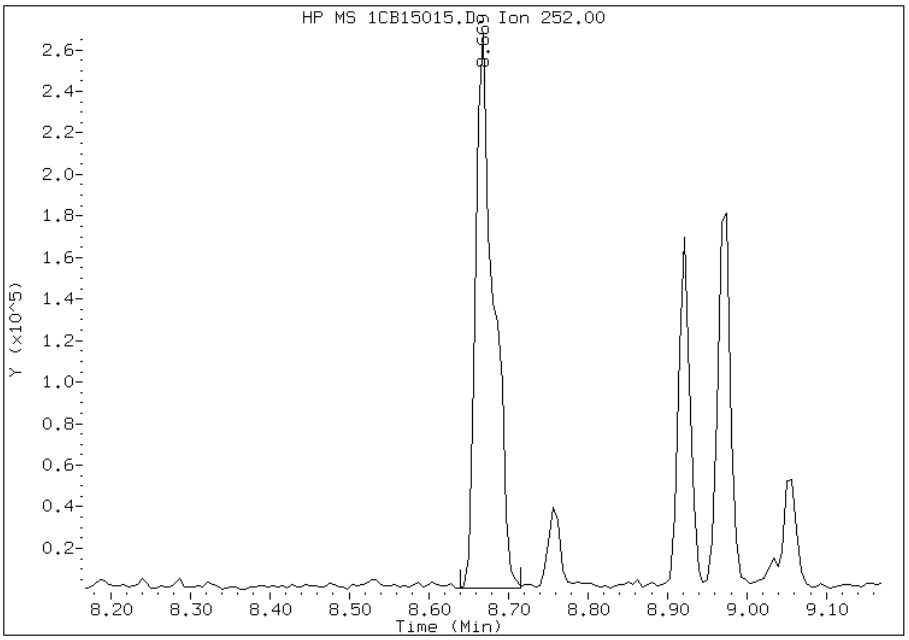
Processing Integration Results

RT: 8.67

Response: 420753

Amount: 5

Conc: 372



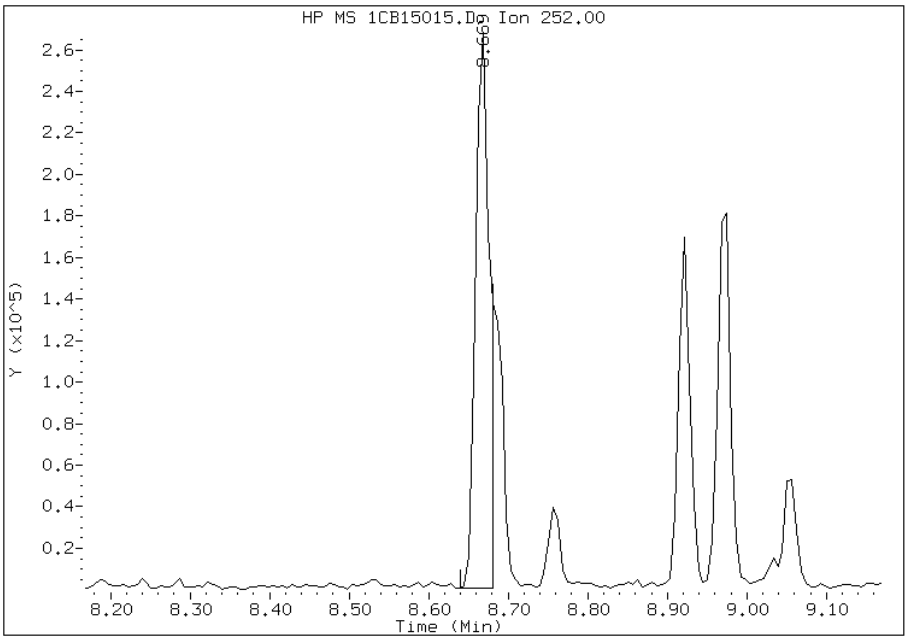
Manual Integration Results

RT: 8.67

Response: 324659

Amount: 4

Conc: 287



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15015.D
Inj. Date and Time: 15-FEB-2013 15:28
Instrument ID: BSMC5973.i
Client ID: CV0005E-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

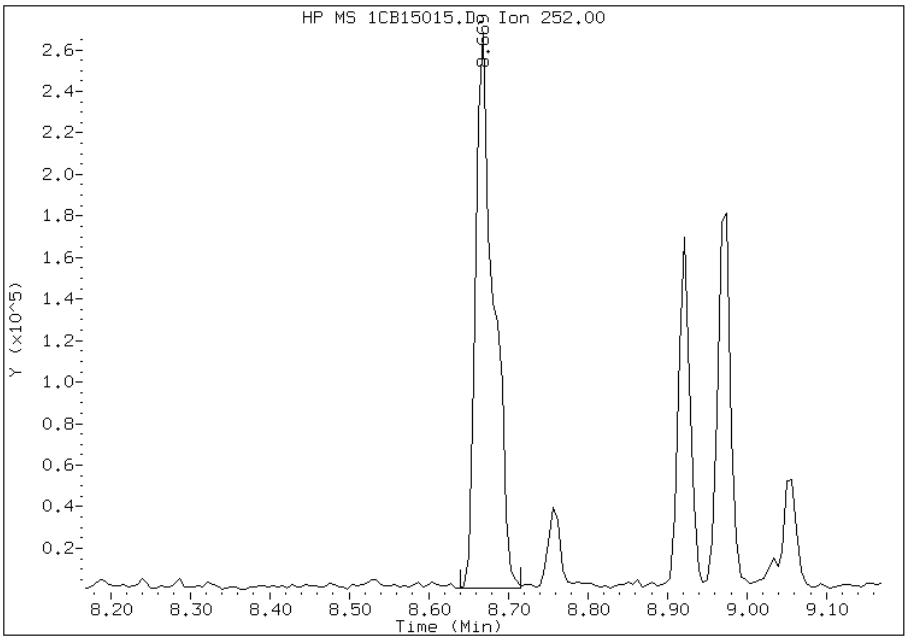
Processing Integration Results

RT: 8.67

Response: 420753

Amount: 5

Conc: 338



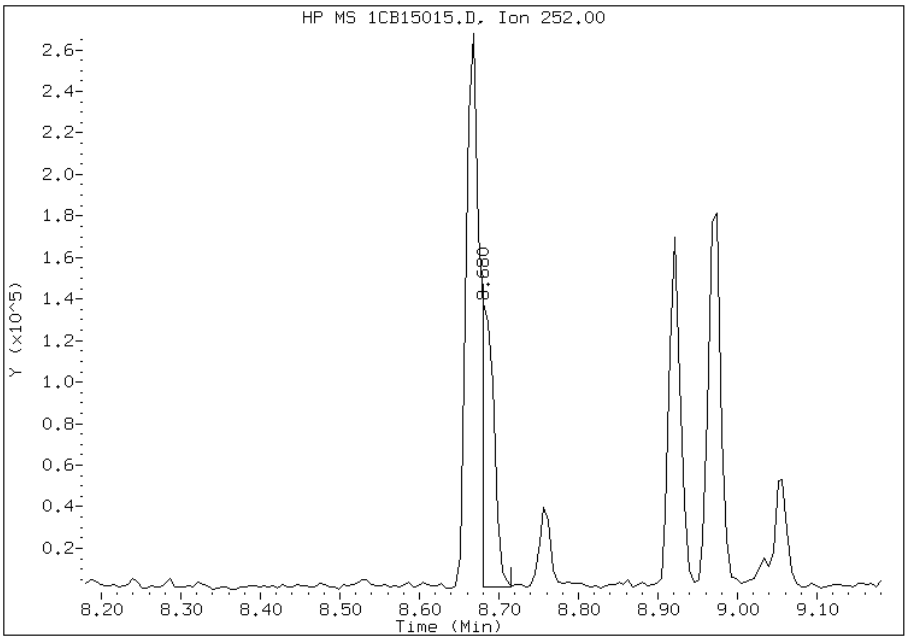
Manual Integration Results

RT: 8.68

Response: 143593

Amount: 2

Conc: 115



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15015.D
Inj. Date and Time: 15-FEB-2013 15:28
Instrument ID: BSMC5973.i
Client ID: CV0005E-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

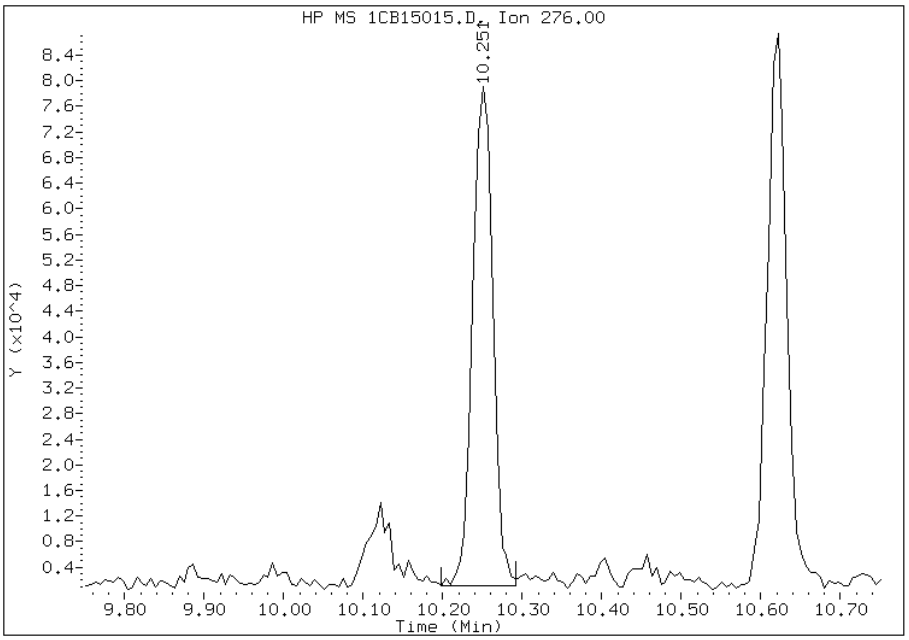
Processing Integration Results

RT: 10.25

Response: 137084

Amount: 2

Conc: 133



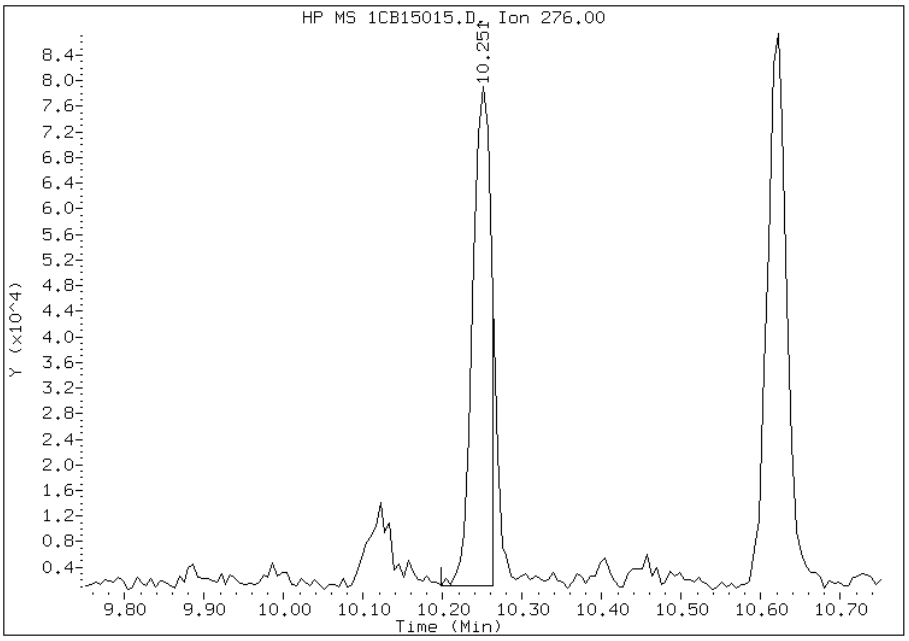
Manual Integration Results

RT: 10.25

Response: 125120

Amount: 2

Conc: 121



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005E-CSD | Lab Sample ID: 680-87318-8

Matrix: Solid | Lab File ID: 1CB15016.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 10:57

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.10(g) | Date Analyzed: 02/15/2013 15:46

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

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

% Moisture: 26.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	33	J	130	27
208-96-8	Acenaphthylene	88		54	6.7
120-12-7	Anthracene	120		11	5.6
56-55-3	Benzo[a]anthracene	730		11	5.2
50-32-8	Benzo[a]pyrene	820		14	7.0
205-99-2	Benzo[b]fluoranthene	1400		16	8.2
191-24-2	Benzo[g,h,i]perylene	620		27	5.9
207-08-9	Benzo[k]fluoranthene	440		11	4.8
218-01-9	Chrysene	810		12	6.0
53-70-3	Dibenz(a,h)anthracene	180		27	5.5
206-44-0	Fluoranthene	1300		27	5.4
86-73-7	Fluorene	35		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	490		27	9.5
90-12-0	1-Methylnaphthalene	120		54	5.9
91-57-6	2-Methylnaphthalene	140		54	9.5
91-20-3	Naphthalene	140		54	5.9
85-01-8	Phenanthrene	580		11	5.2
129-00-0	Pyrene	1200		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15016.D
Lab Smp Id: 680-87318-A-8-A Client Smp ID: CV0005E-CSD
Inj Date : 15-FEB-2013 15:46
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-8-a
Misc Info : 680-87318-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	26.019	% 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	3.821	3.821	(1.000)	2395074	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1872914	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3403632	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	326219	6.54126	585.5515
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3564576	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3287259	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	97439	1.53529	137.4336
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	65935	1.59775	143.0254
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	51714	1.37786	123.3415
5 Acenaphthylene	152	4.821	4.821	(0.982)	73514	0.98660	88.3171
7 Acenaphthene	154	4.927	4.927	(1.004)	17264	0.36942	33.0689
9 Fluorene	166	5.245	5.245	(1.068)	23275	0.38799	34.7312
11 Phenanthrene	178	5.874	5.880	(1.002)	653250	6.42987	575.5805
12 Anthracene	178	5.910	5.910	(1.008)	119031	1.30039	116.4064

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	(1.026)	93122	1.17121	104.8429
15 Fluoranthene	202	6.715	6.721	(1.145)	1488198	14.9909	1341.9339
16 Pyrene	202	6.886	6.886	(0.882)	1302676	13.7272	1228.8092
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	797058	8.10858	725.8527
19 Chrysene	228	7.827	7.833	(1.002)	919792	9.05871	810.9055
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	1236022	15.3366	1372.8825
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	440196	4.95791	443.8153
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	699698	9.12388	816.7392
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	402568	5.46538	489.2426(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	138861	1.99913	178.9556
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	519031	6.93691	620.9691

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB15016.D

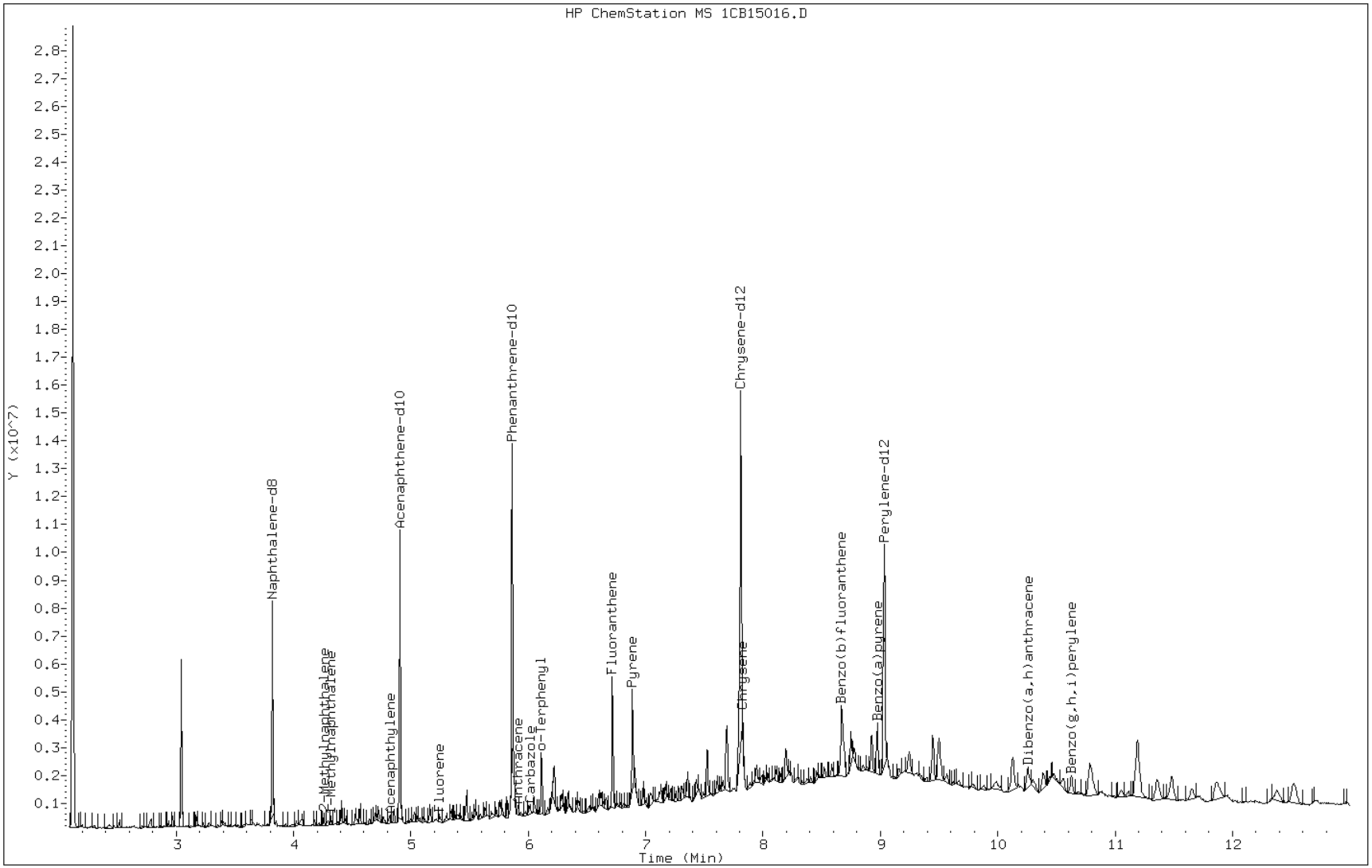
Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD

Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a

Operator: SCC



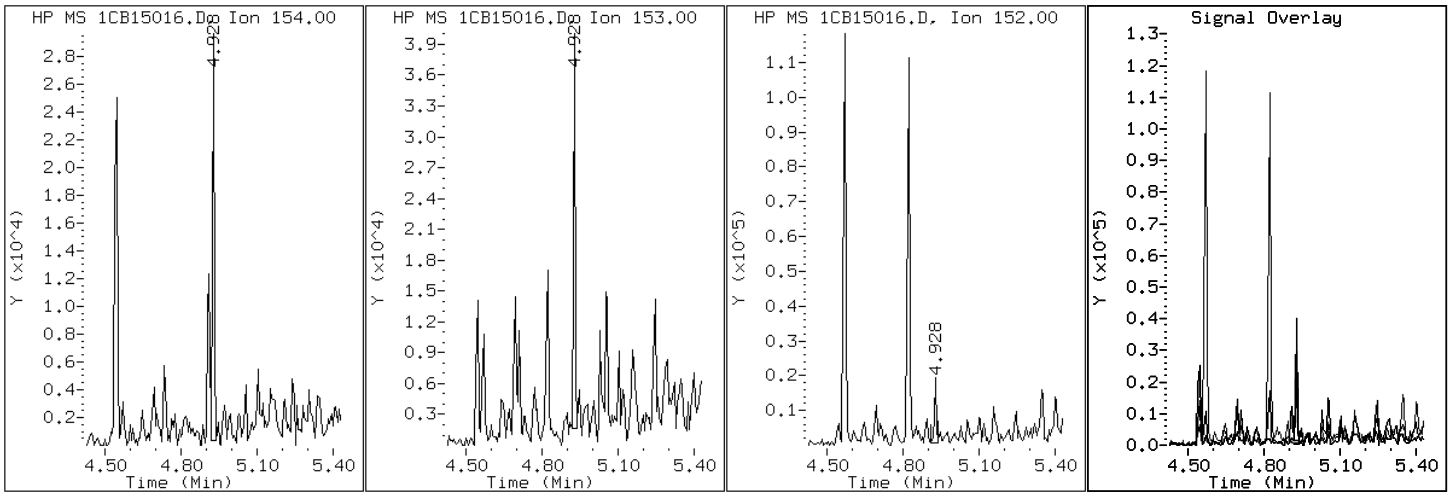
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

7 Acenaphthene



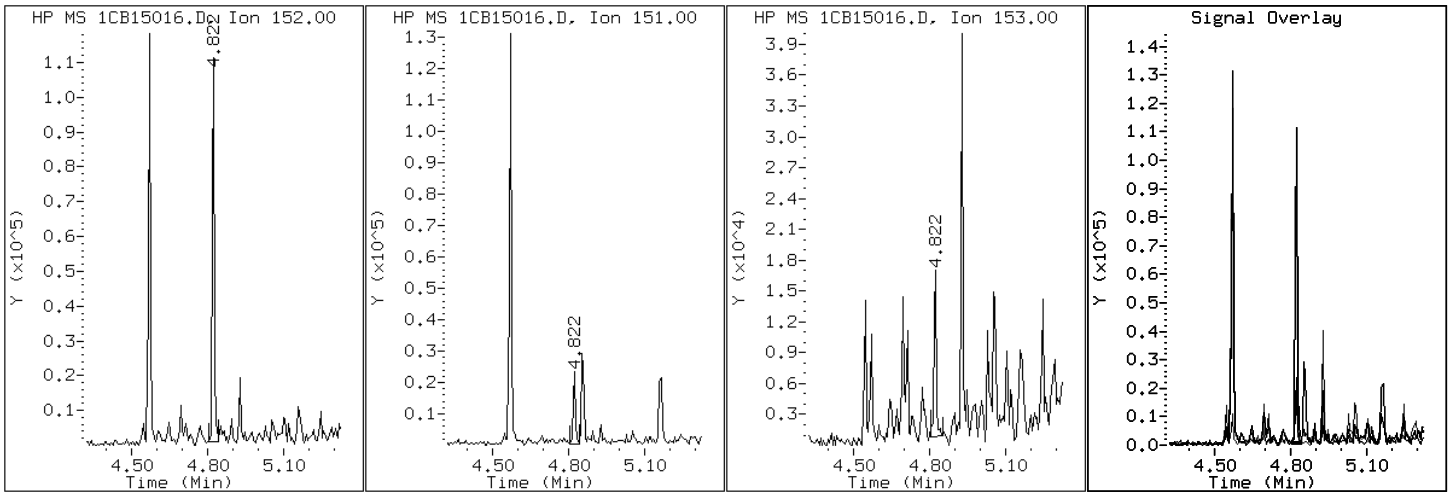
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

5 Acenaphthylene



Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

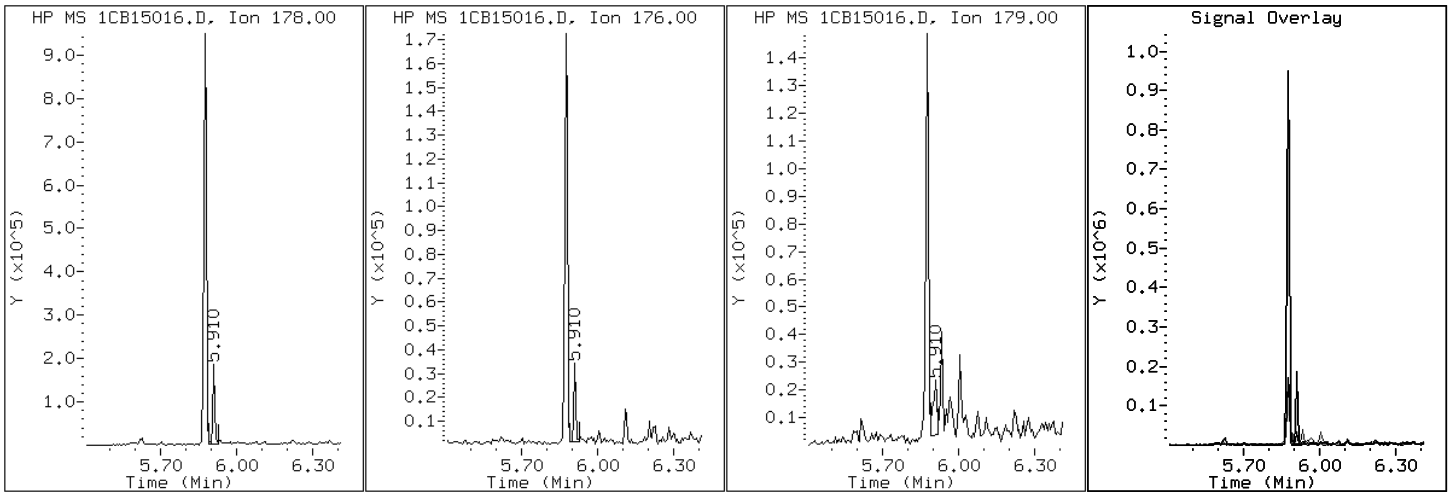
Client ID: CV0005E-CSD

Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a

Operator: SCC

12 Anthracene



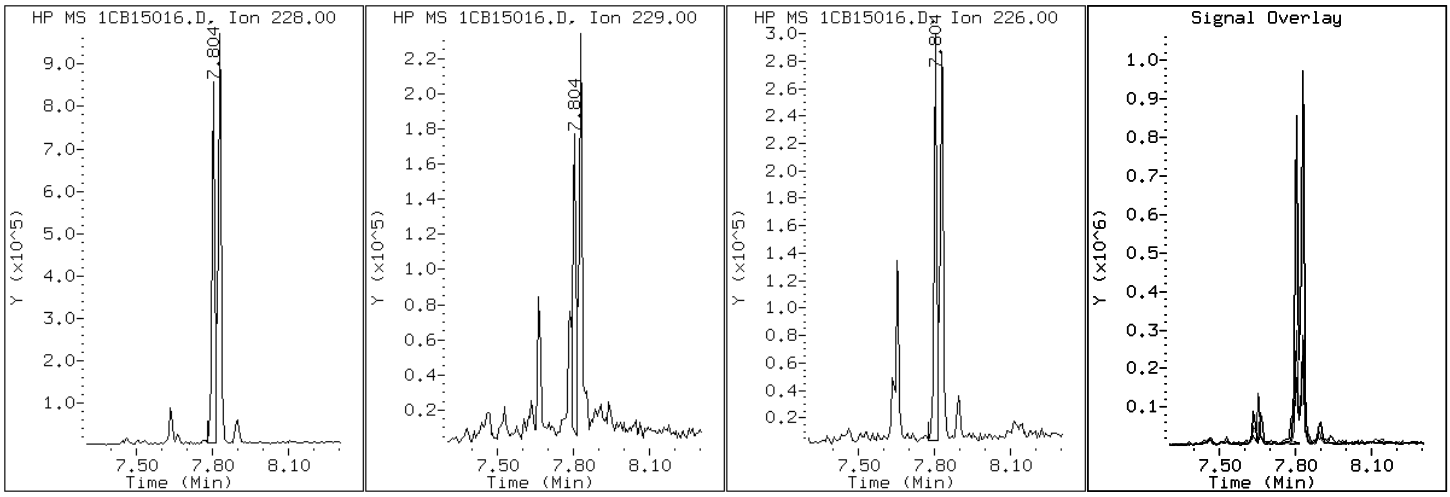
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

17 Benzo(a)anthracene



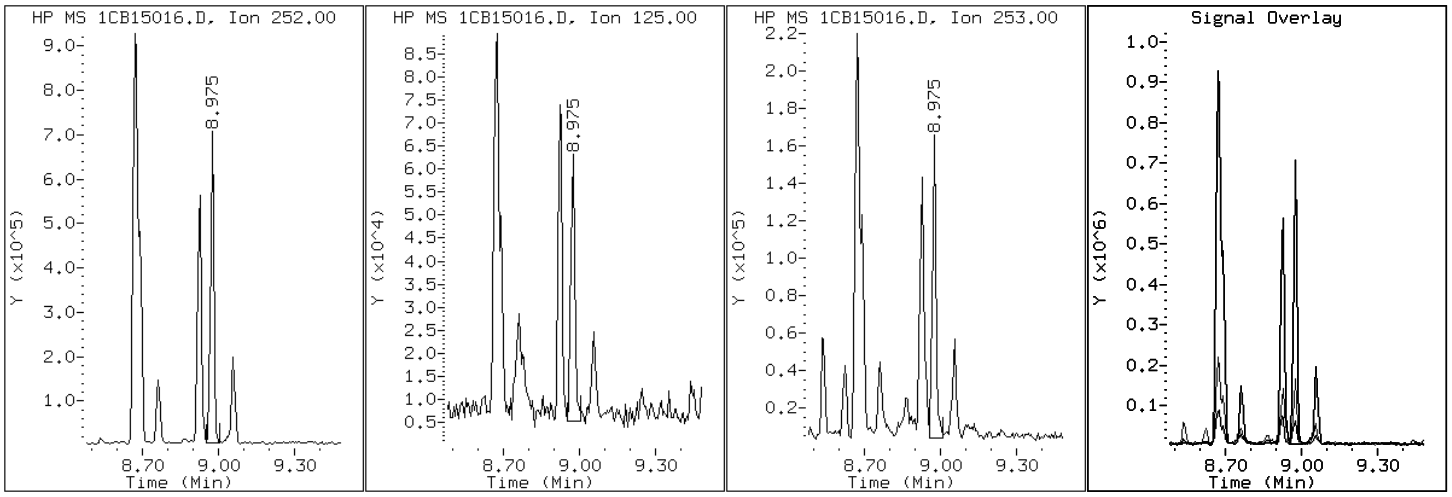
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

22 Benzo(a)pyrene



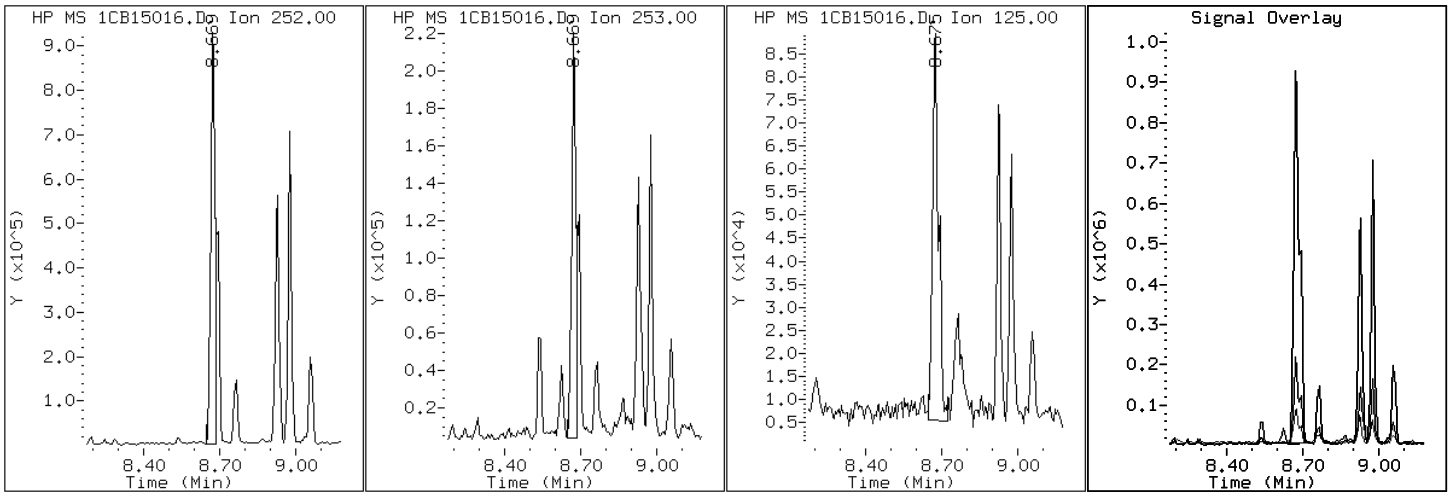
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

20 Benzo(b)fluoranthene



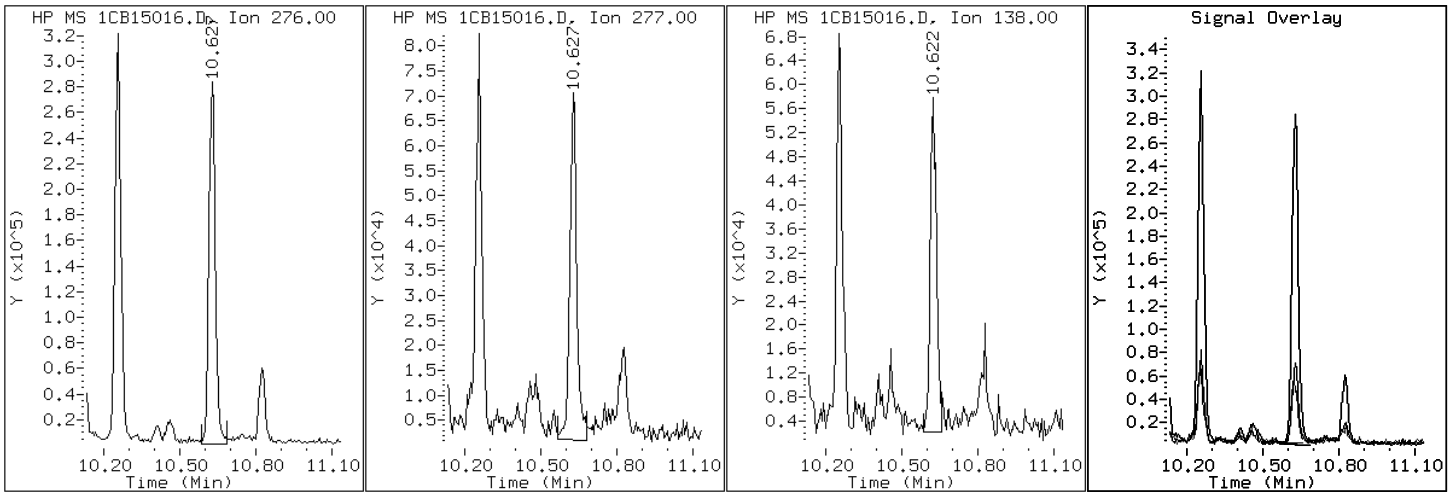
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

26 Benzo(g,h,i)perylene



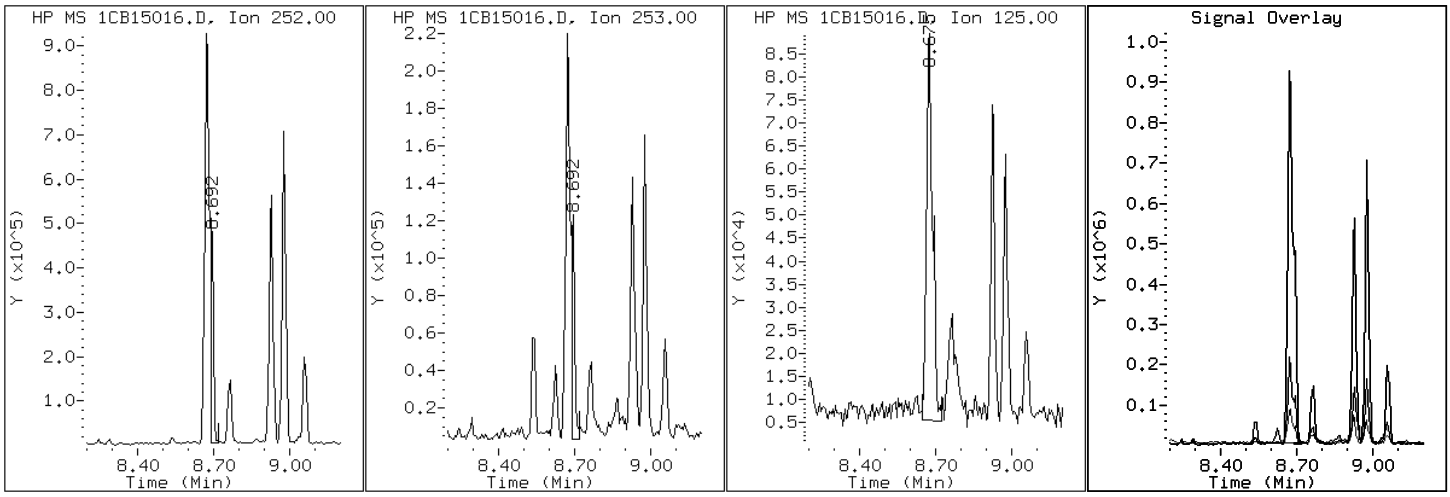
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

21 Benzo(k)fluoranthene



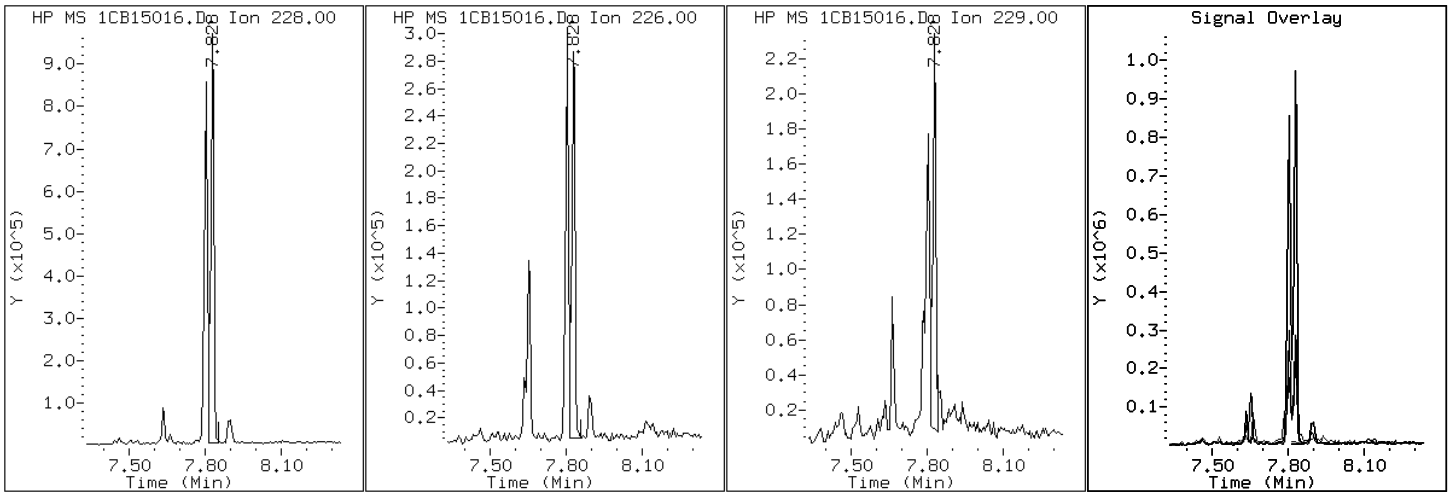
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

19 Chrysene



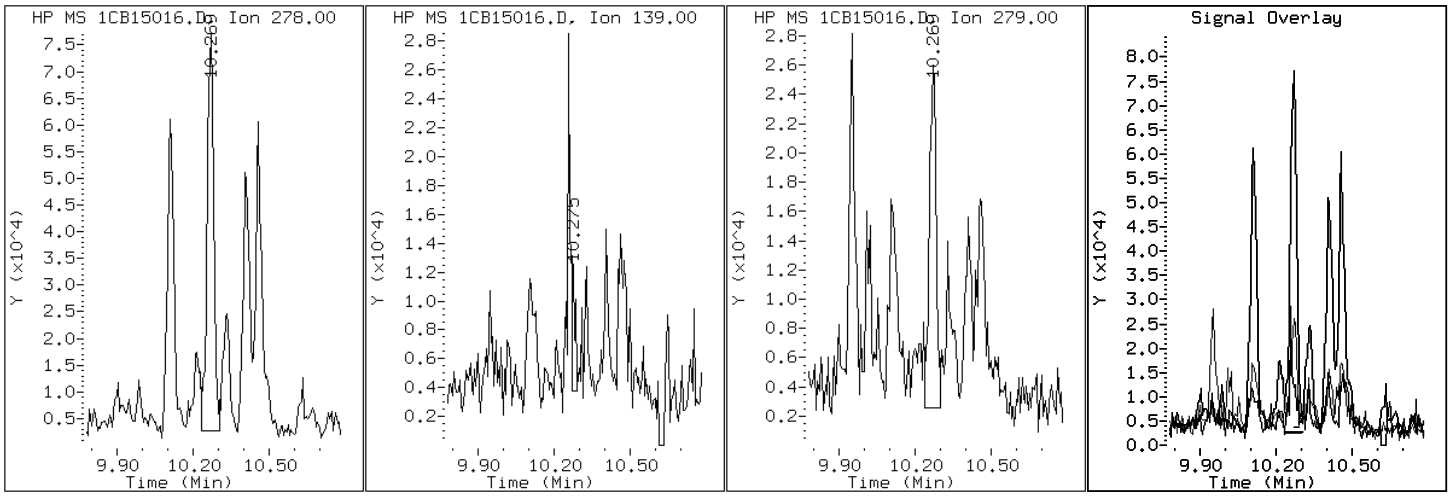
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

25 Dibenzo(a,h)anthracene



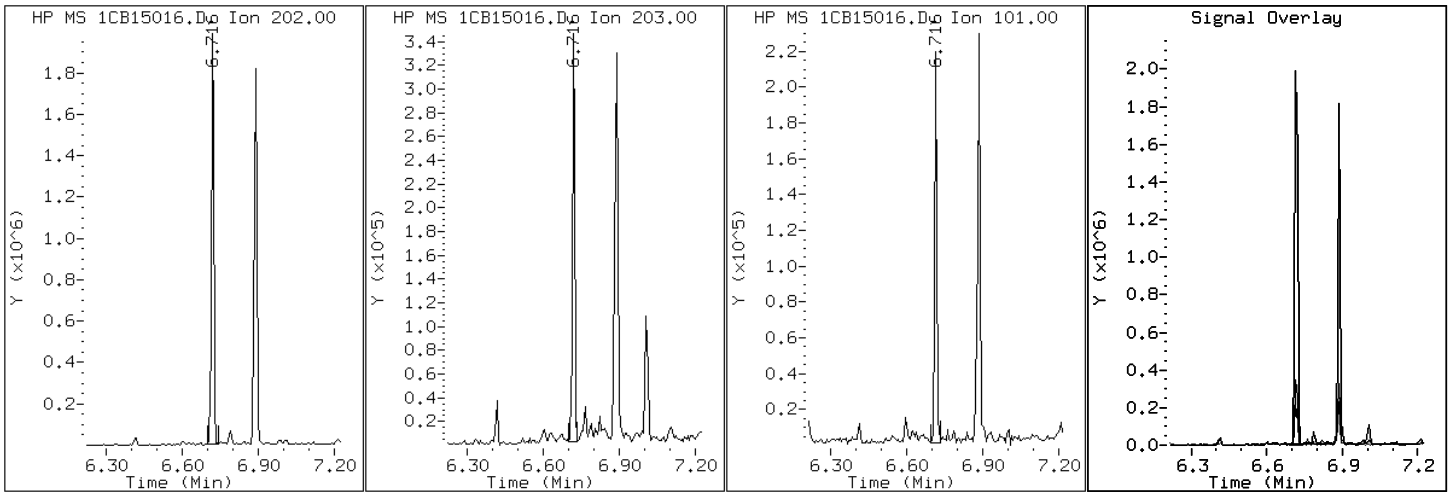
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

15 Fluoranthene



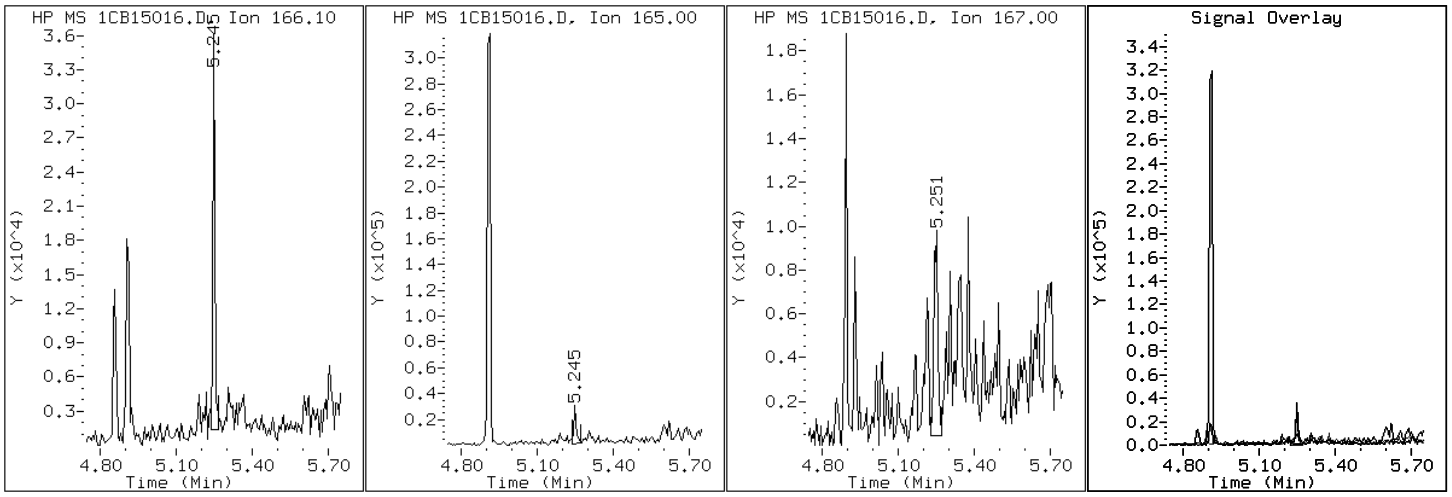
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

9 Fluorene



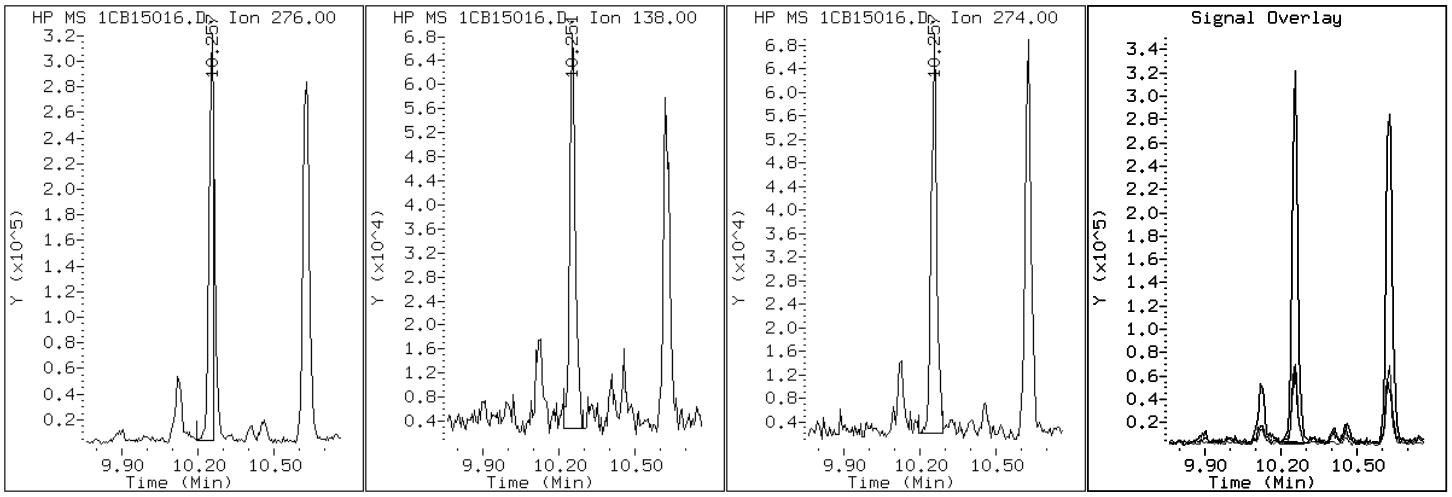
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

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



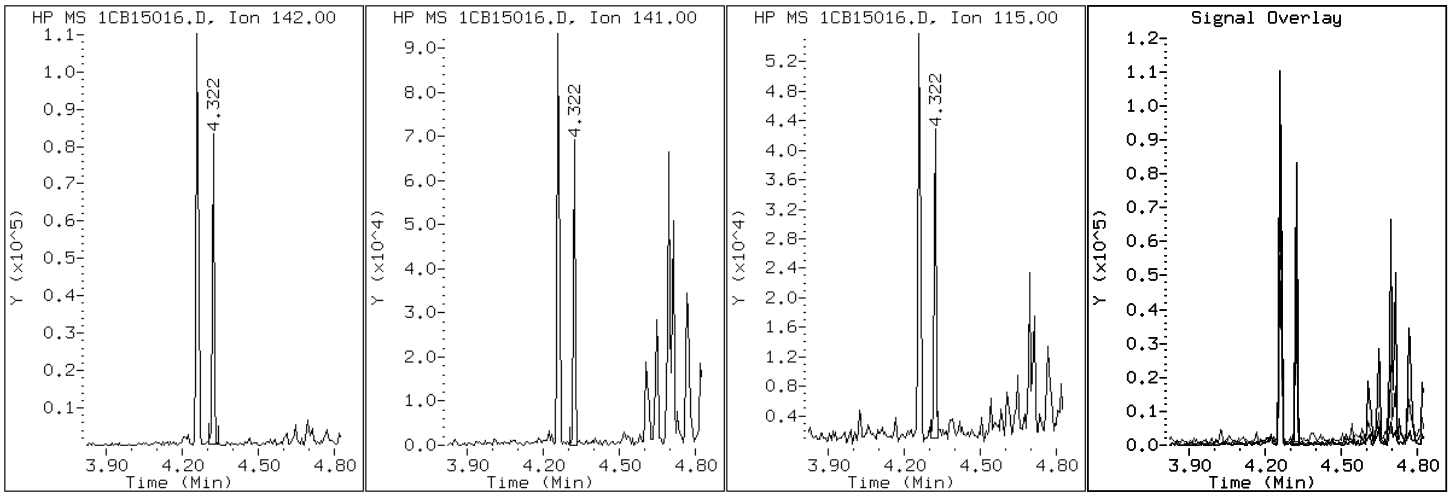
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

4 1-Methylnaphthalene



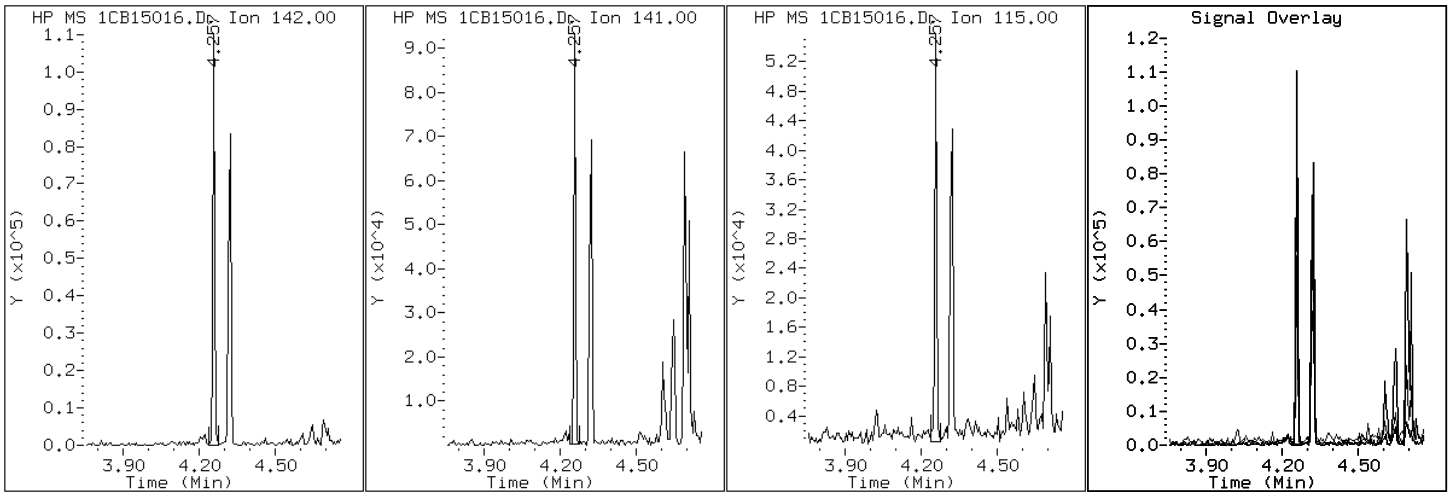
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

3 2-Methylnaphthalene



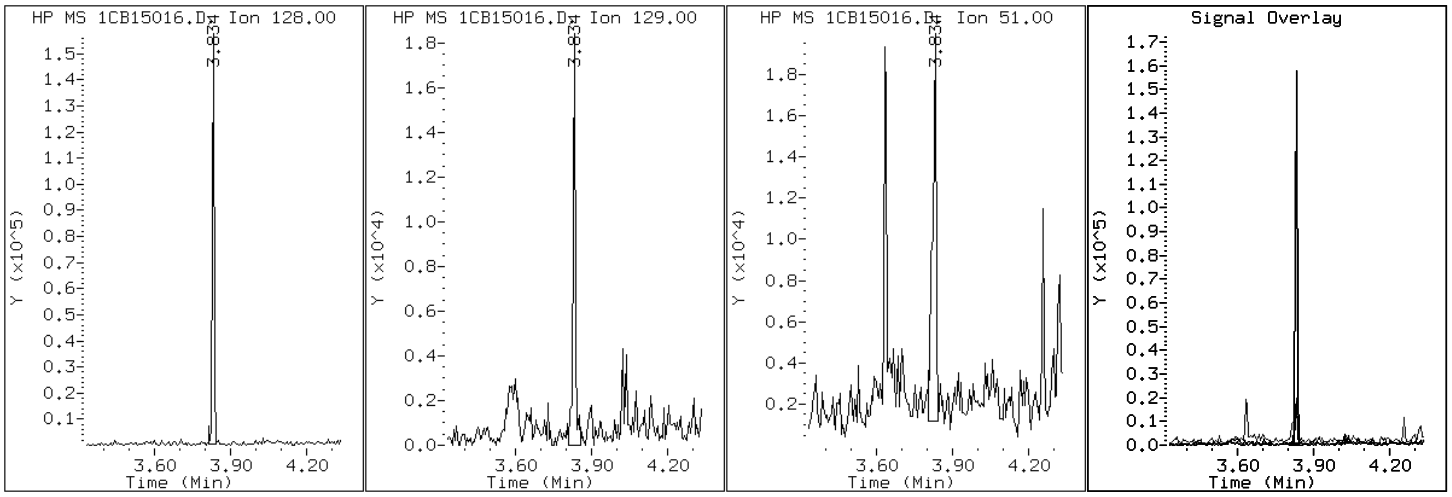
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

2 Naphthalene



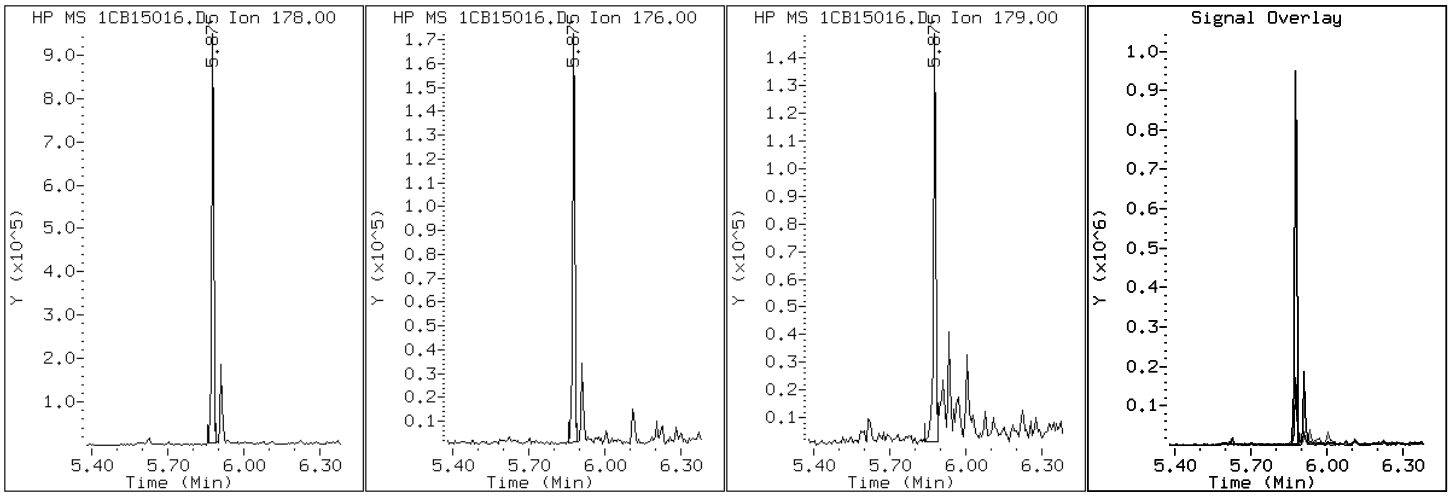
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

11 Phenanthrene



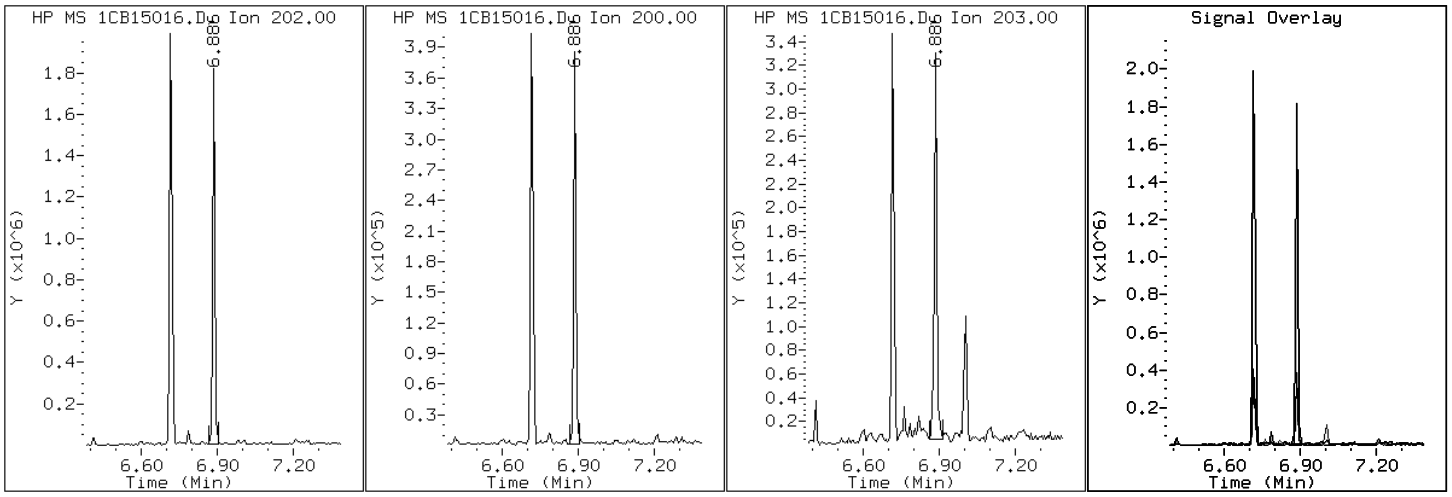
Data File: 1CB15016.D

Date: 15-FEB-2013 15:46

Client ID: CV0005E-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-8-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15016.D
Inj. Date and Time: 15-FEB-2013 15:46
Instrument ID: BSMC5973.i
Client ID: CV0005E-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

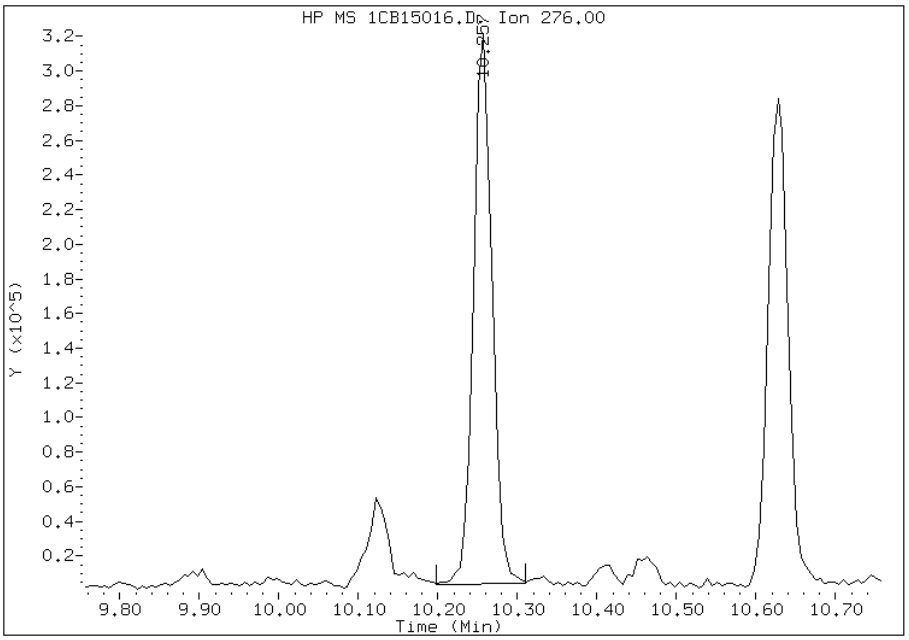
Processing Integration Results

RT: 10.26

Response: 508108

Amount: 7

Conc: 618



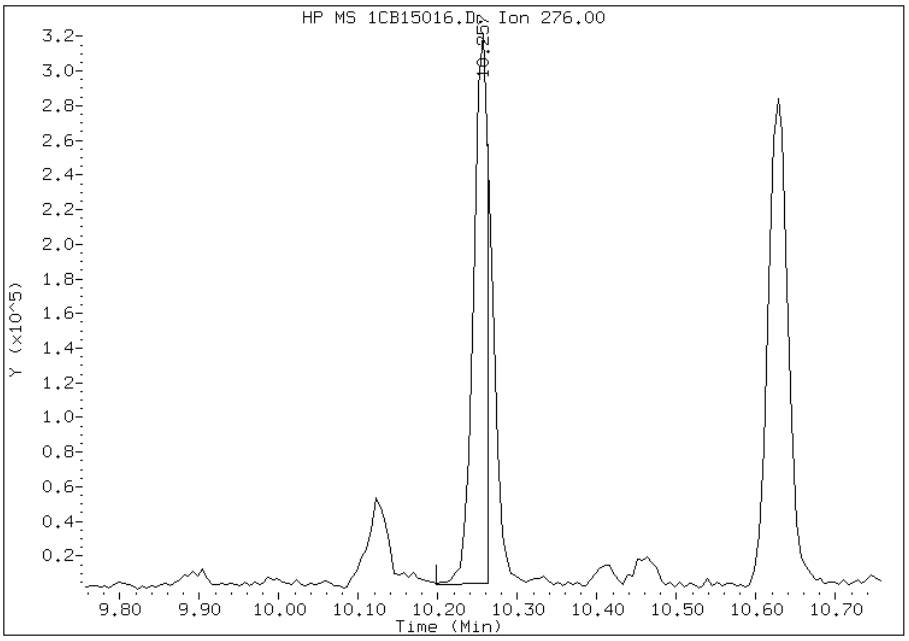
Manual Integration Results

RT: 10.26

Response: 402568

Amount: 5

Conc: 489



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005F-CS | Lab Sample ID: 680-87318-9

Matrix: Solid | Lab File ID: 1CB15017.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 11:01

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.25(g) | Date Analyzed: 02/15/2013 16:04

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

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

% Moisture: 3.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	410	U	410	82
208-96-8	Acenaphthylene	37	J	160	20
120-12-7	Anthracene	64		34	17
56-55-3	Benzo[a]anthracene	390		33	16
50-32-8	Benzo[a]pyrene	400		43	21
205-99-2	Benzo[b]fluoranthene	570		50	25
191-24-2	Benzo[g,h,i]perylene	290		82	18
207-08-9	Benzo[k]fluoranthene	230		33	15
218-01-9	Chrysene	420		37	18
53-70-3	Dibenz(a,h)anthracene	78	J	82	17
206-44-0	Fluoranthene	700		82	16
86-73-7	Fluorene	25	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	130	J	160	29
91-20-3	Naphthalene	130	J	160	18
85-01-8	Phenanthrene	370		33	16
129-00-0	Pyrene	640		82	15

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\1C021513.b\1CB15017.D
Lab Smp Id: 680-87318-A-9-A Client Smp ID: CV0005F-CS
Inj Date : 15-FEB-2013 16:04
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-9-a
Misc Info : 680-87318-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 17
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	3.791	% 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	3.822	3.821	(1.000)	2293690	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1795066	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3286356	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	91179	1.89354	516.2397
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3340485	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3086805	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	28177	0.46359	126.3898
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	18868	0.47742	130.1607
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	13956	0.38828	105.8569
5 Acenaphthylene	152	4.821	4.821	(0.982)	9568	0.13398	36.5263
9 Fluorene	166	5.245	5.245	(1.068)	5308	0.09232	25.1693
11 Phenanthrene	178	5.874	5.880	(1.002)	133519	1.36111	371.0825
12 Anthracene	178	5.910	5.910	(1.008)	20876	0.23620	64.3969
13 Carbazole	167	6.015	6.015	(1.026)	19180	0.24984	68.1139

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	246238	2.56891	700.3679
16 Pyrene	202	6.886	6.886	(0.882)	209688	2.35785	642.8250
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	132339	1.43662	391.6675
19 Chrysene	228	7.827	7.833	(1.002)	145802	1.53228	417.7488
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	159425	2.10661	574.3294(M)
21 Benzo(k)fluoranthene	252	8.680	8.698	(0.961)	70832	0.84958	231.6238(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	104999	1.45807	397.5167
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	73668	1.06509	290.3764(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	18732	0.28719	78.2973
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	75391	1.07304	292.5457

QC Flag Legend

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

Data File: 1CB15017.D

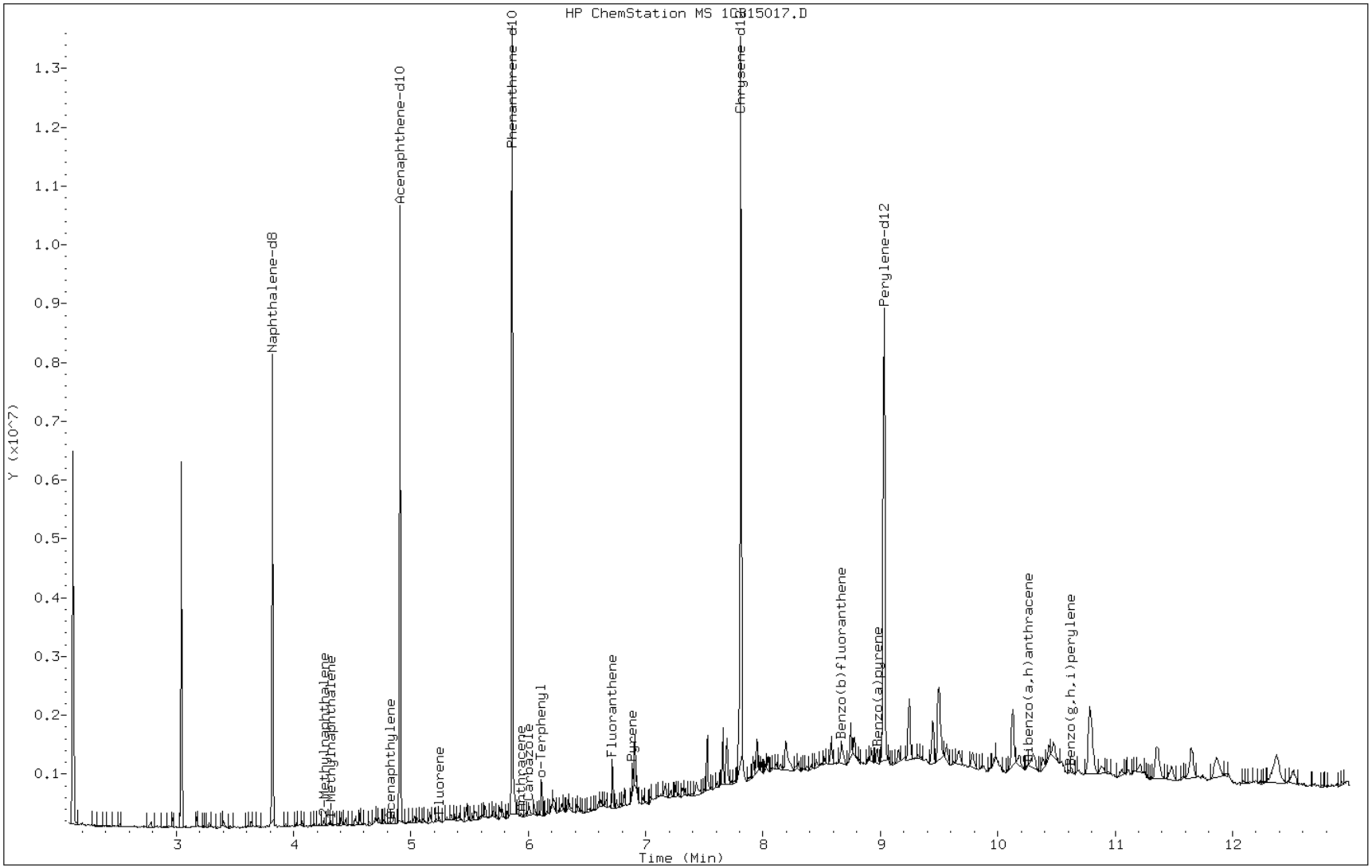
Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a

Operator: SCC



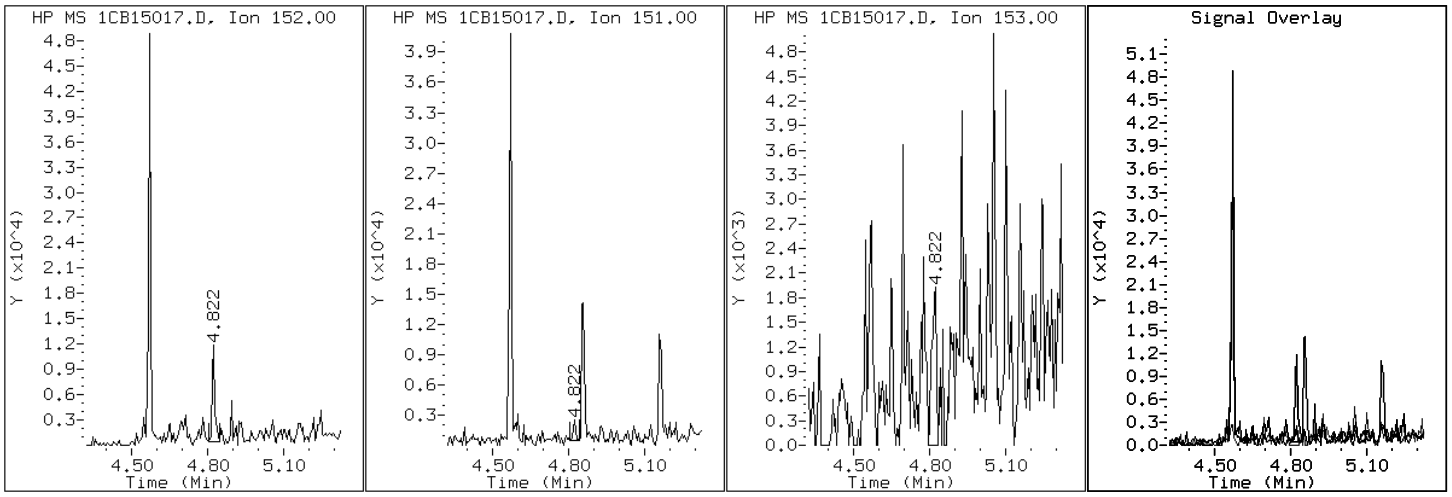
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

5 Acenaphthylene



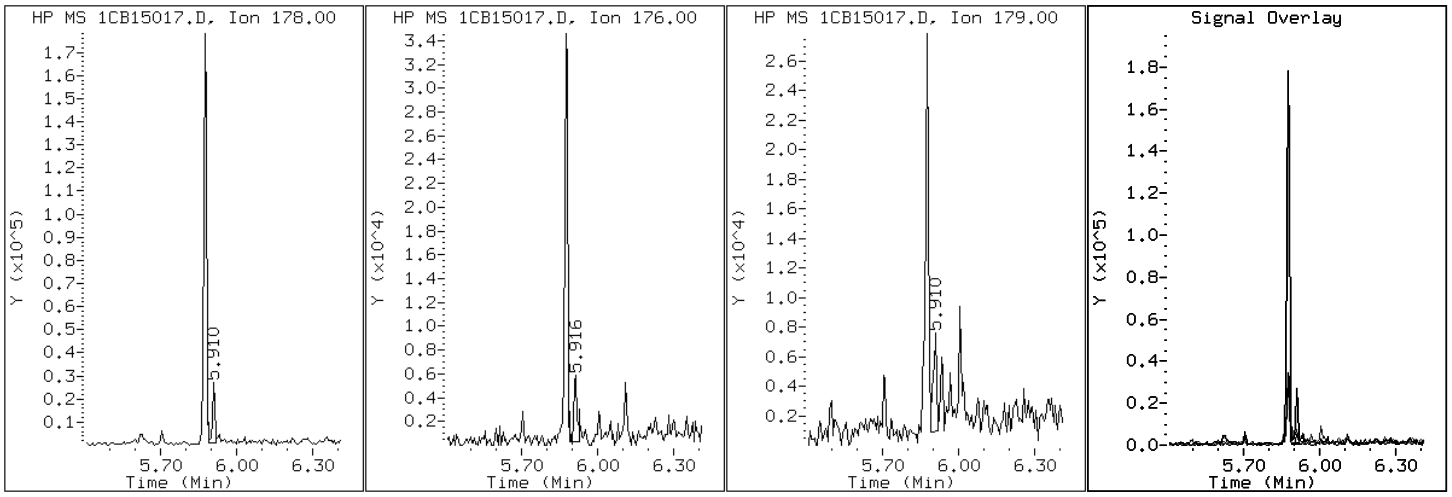
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

12 Anthracene



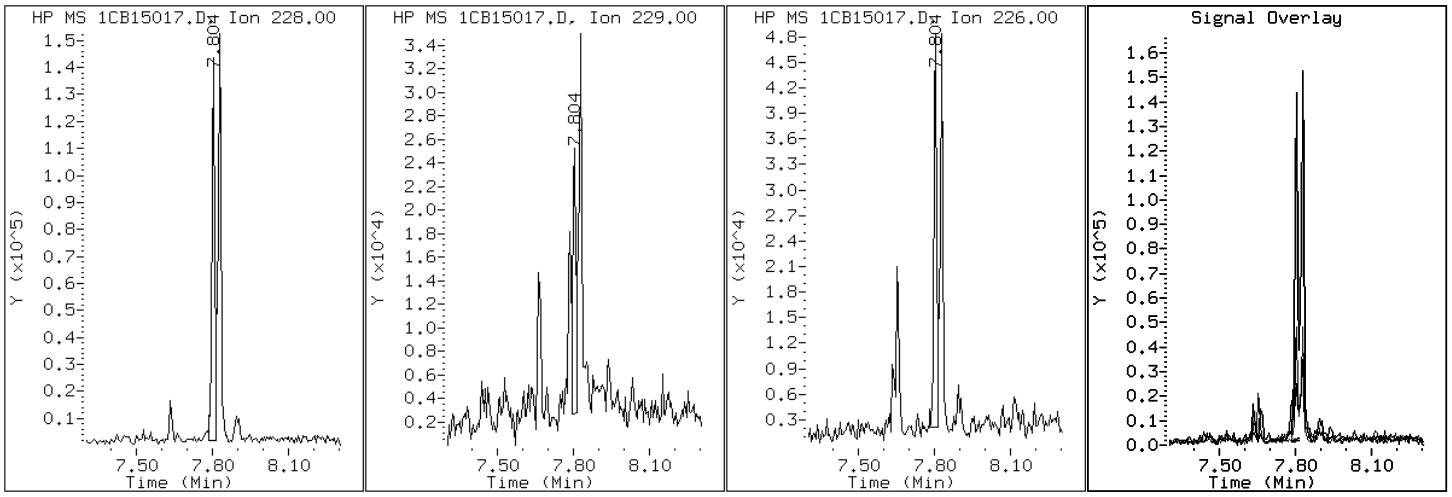
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

17 Benzo(a)anthracene



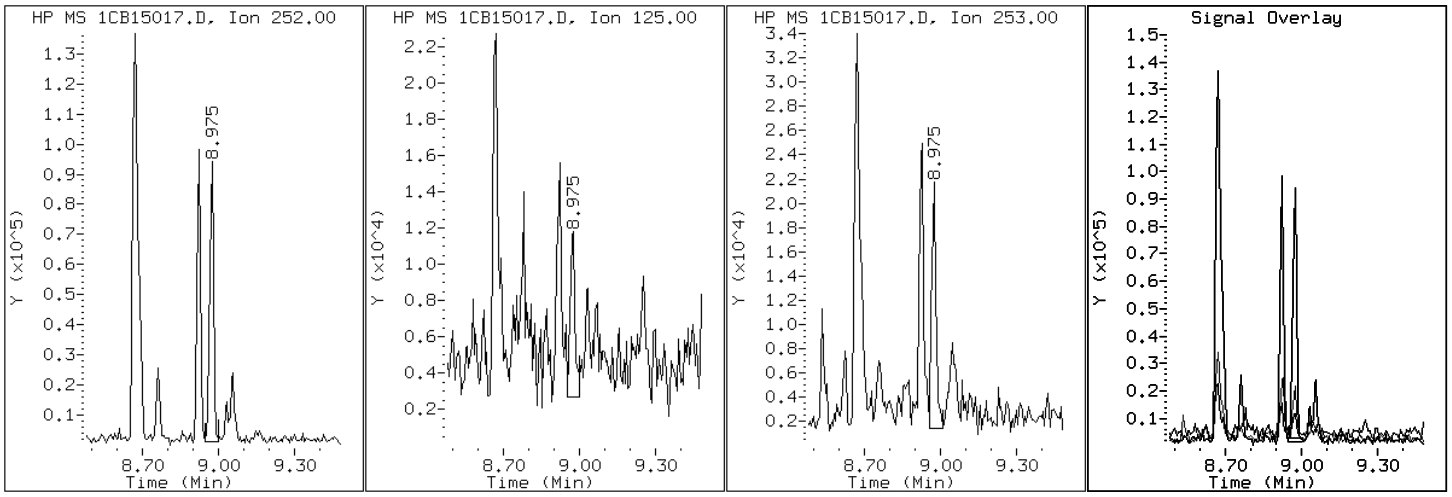
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

22 Benzo(a)pyrene



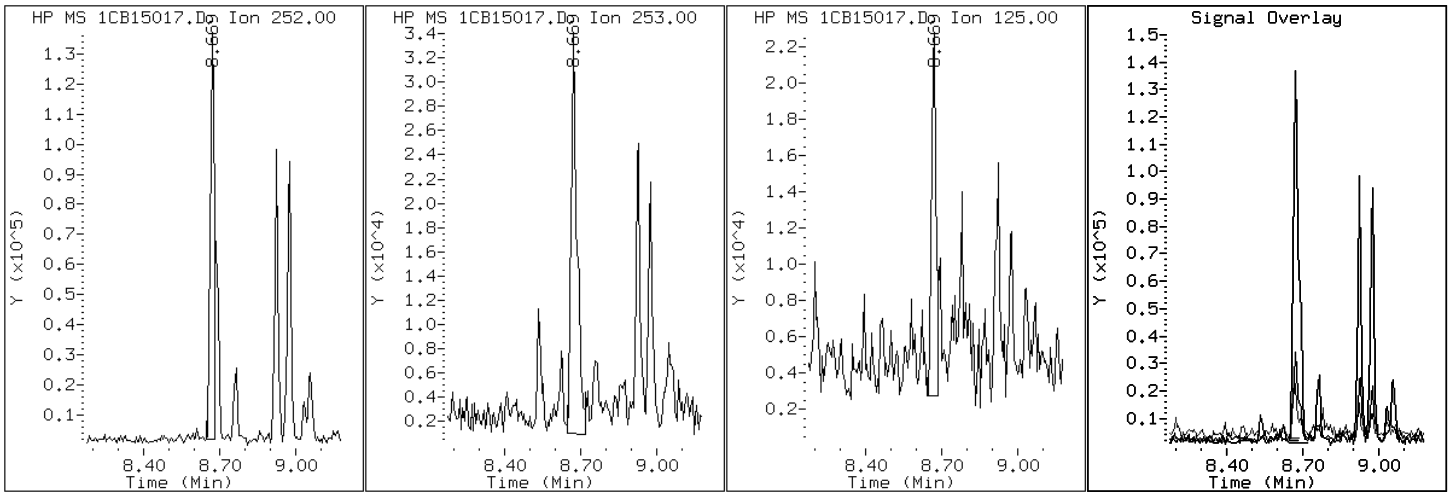
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

20 Benzo(b)fluoranthene



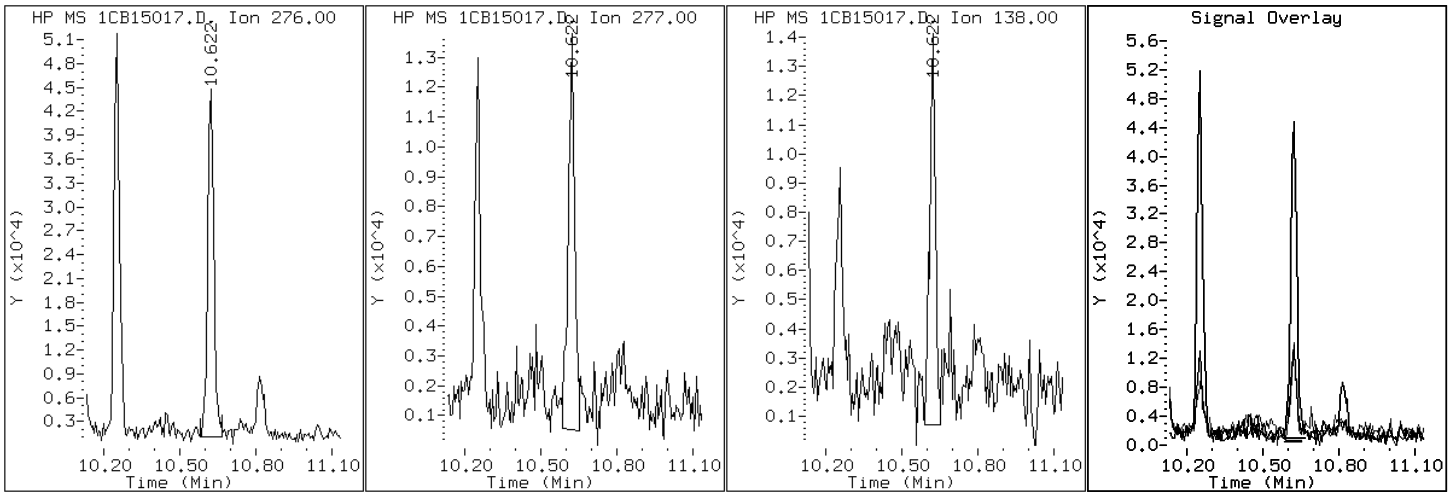
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

26 Benzo(g,h,i)perylene



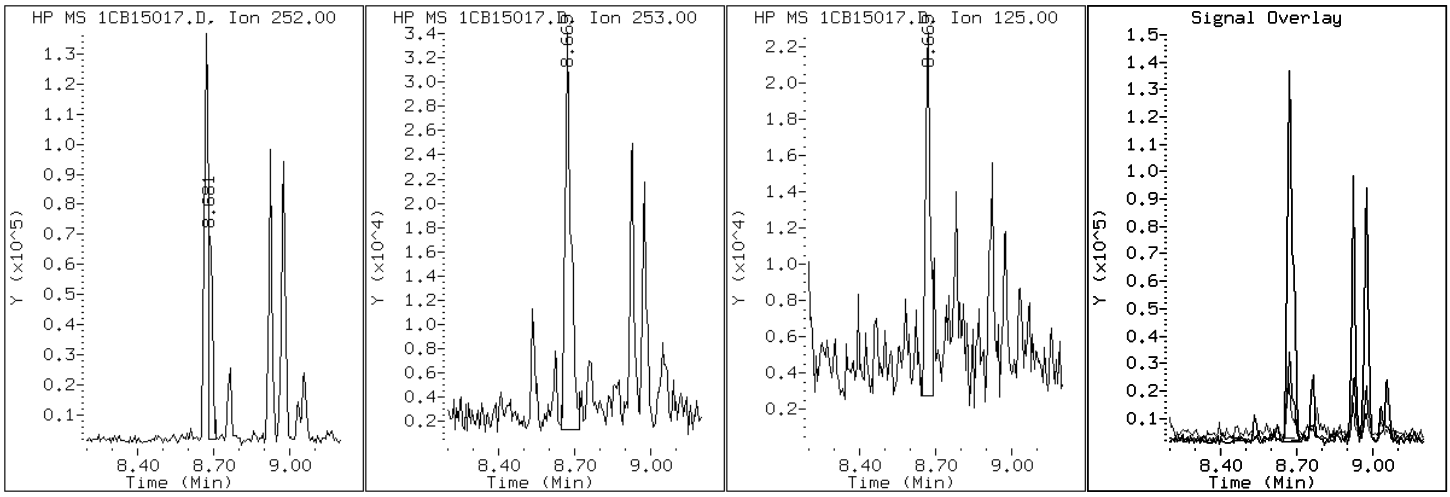
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

21 Benzo(k)fluoranthene



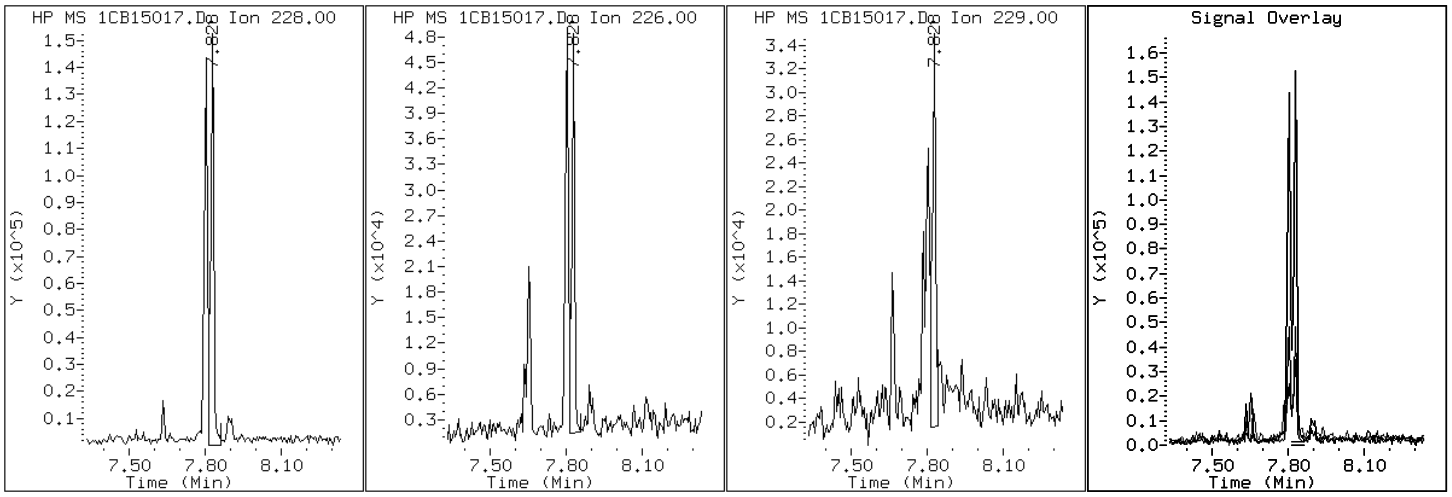
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

19 Chrysene



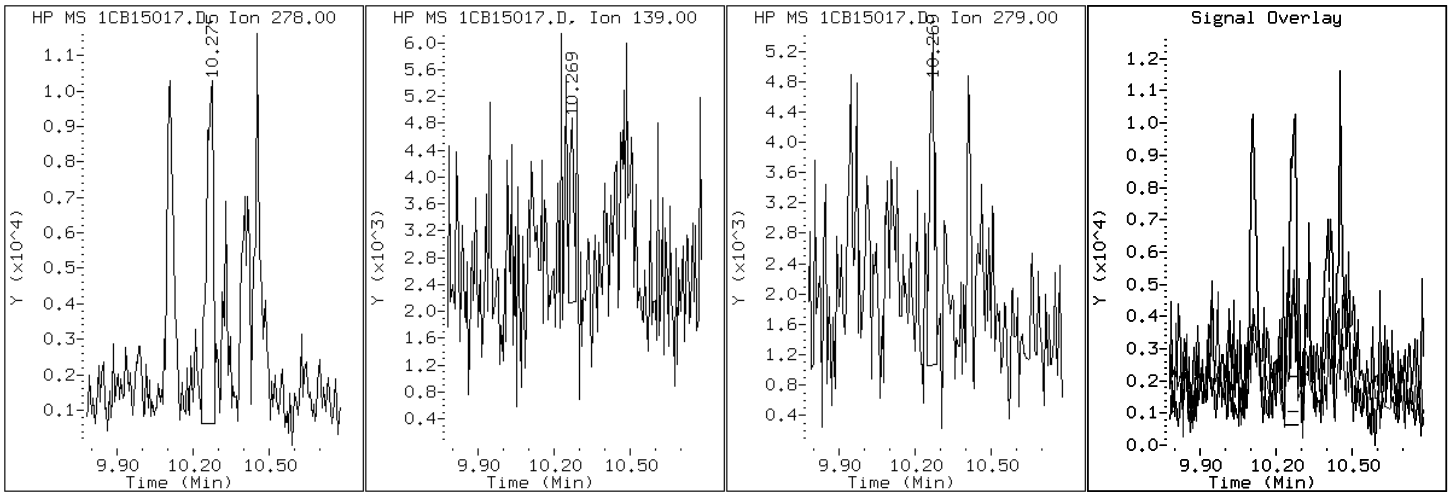
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

25 Dibenzo(a,h)anthracene



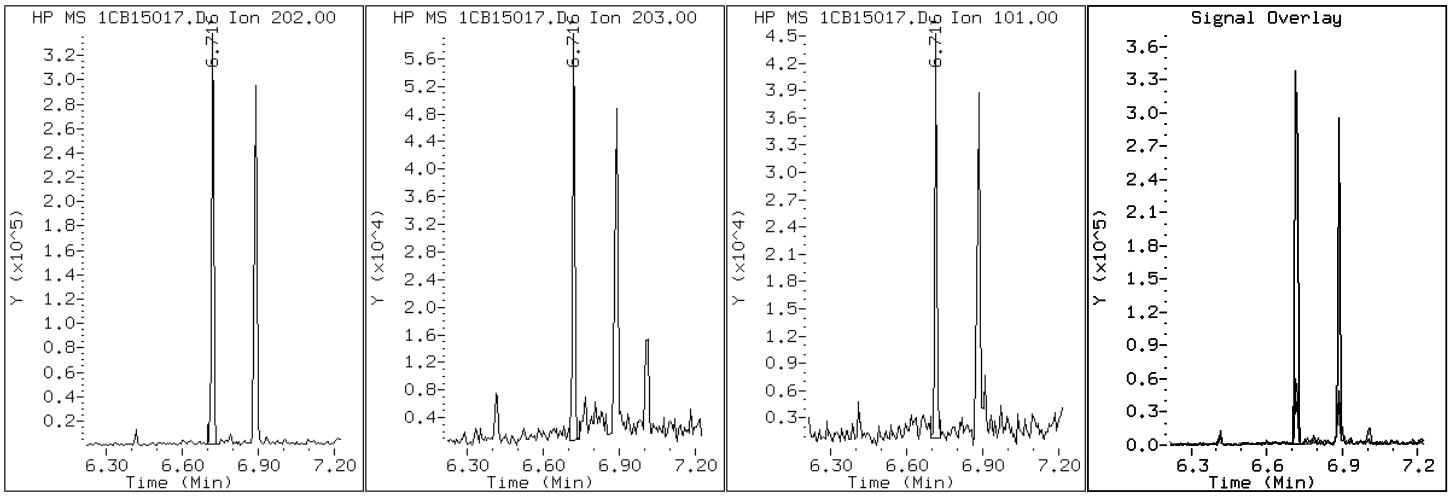
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

15 Fluoranthene



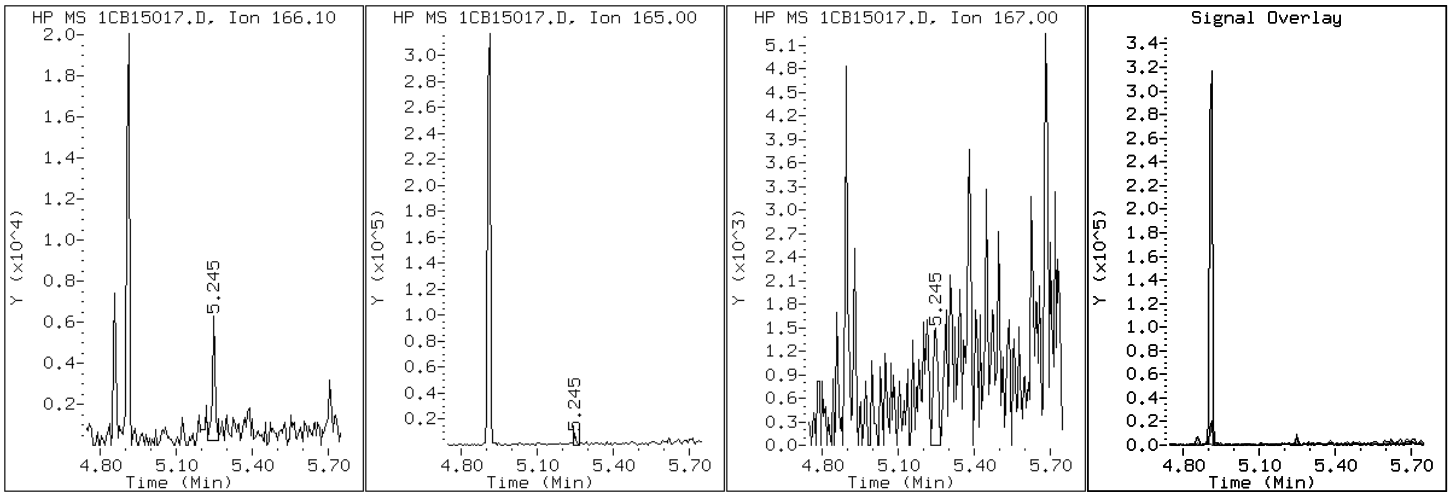
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

9 Fluorene



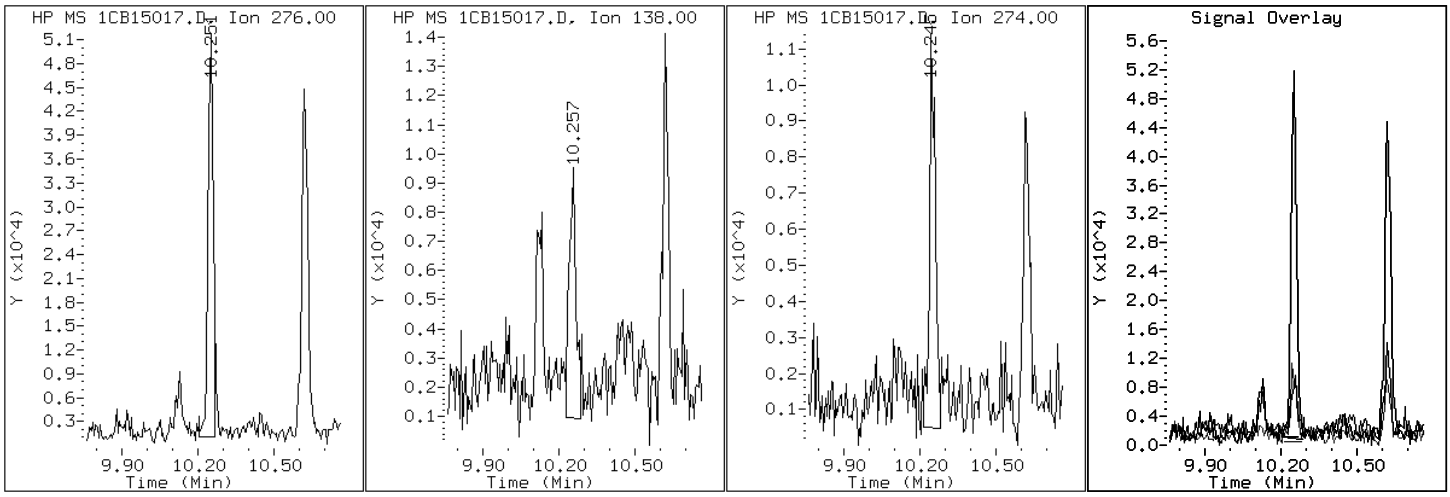
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

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



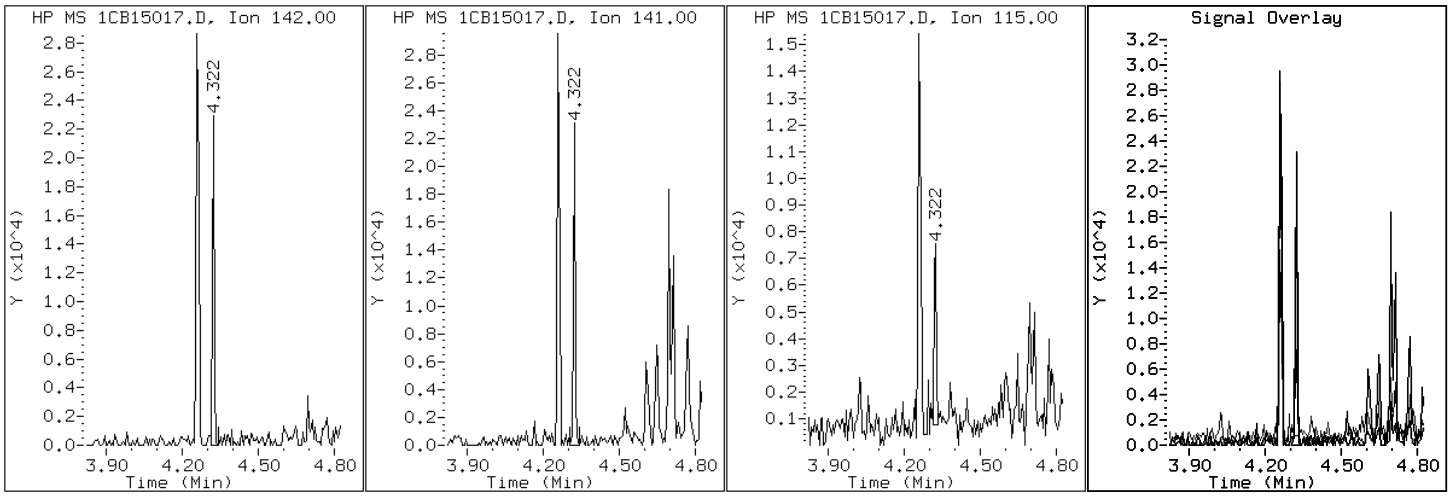
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

4 1-Methylnaphthalene



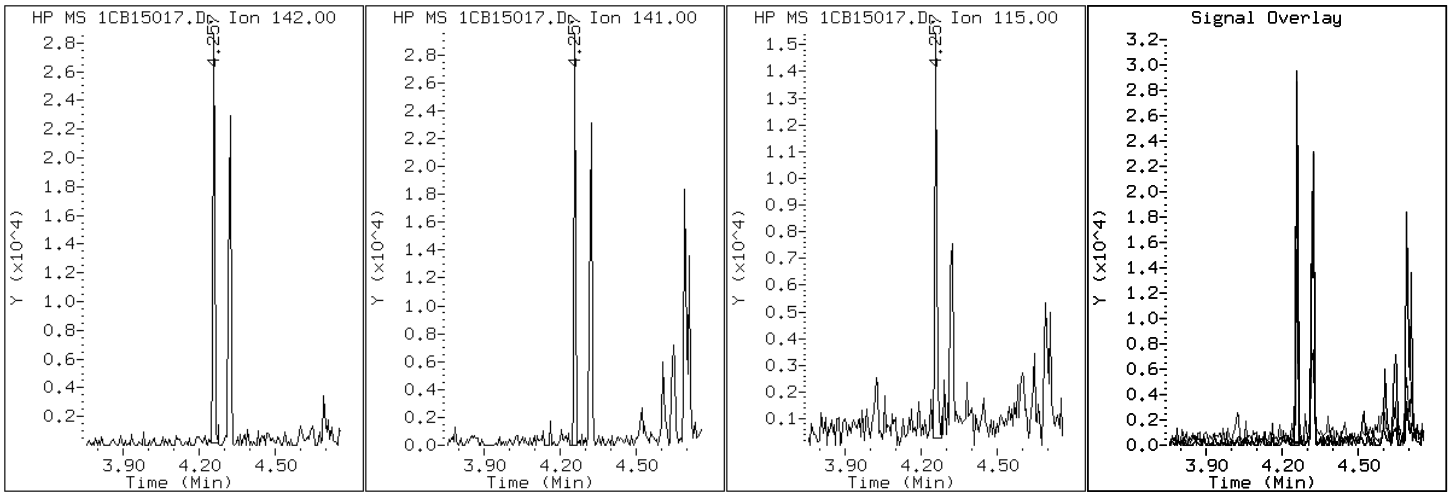
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

3 2-Methylnaphthalene



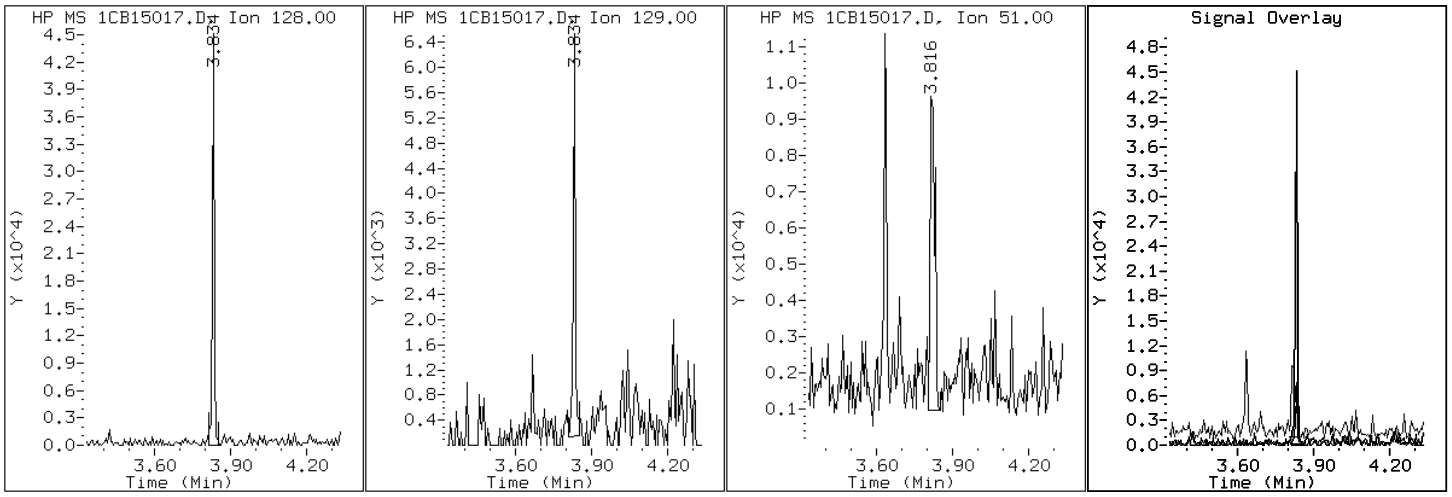
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

2 Naphthalene



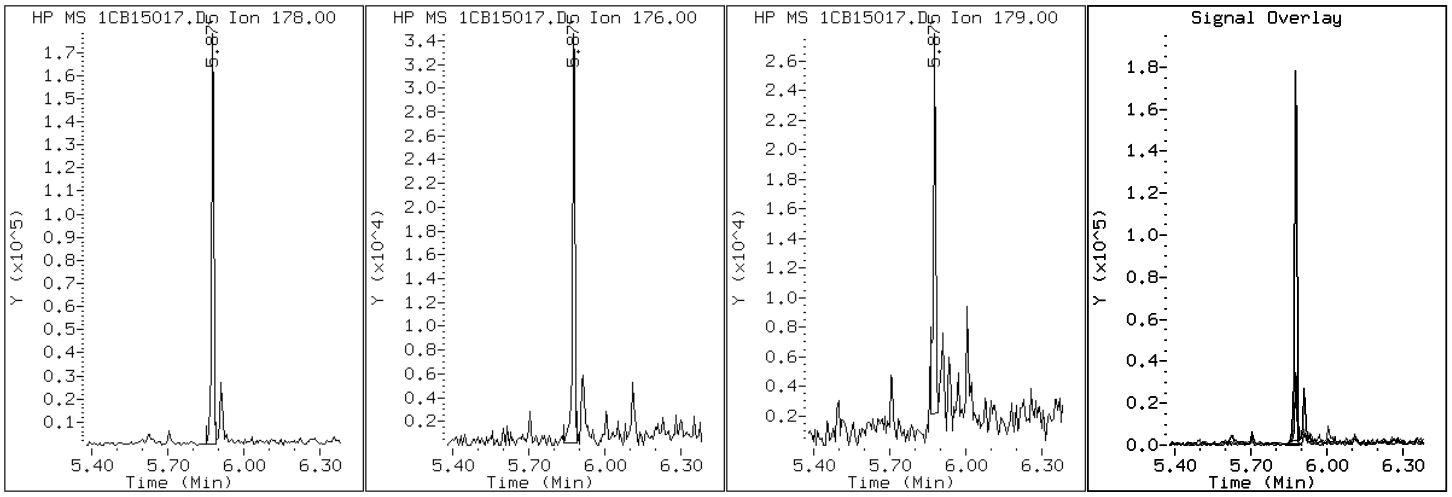
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

11 Phenanthrene



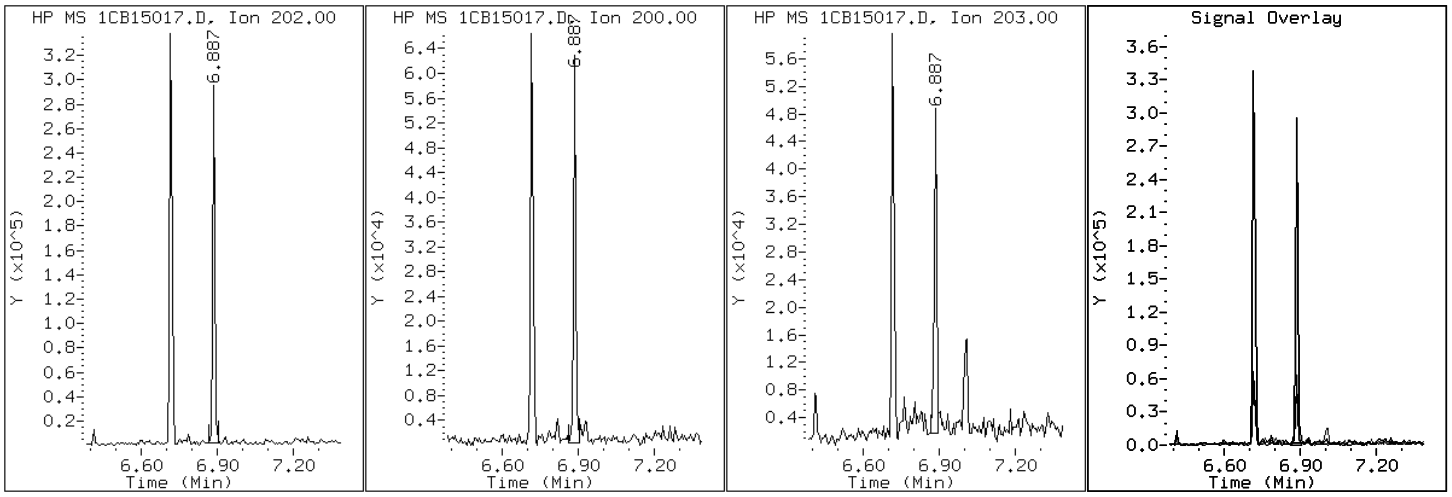
Data File: 1CB15017.D

Date: 15-FEB-2013 16:04

Client ID: CV0005F-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-9-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15017.D
Inj. Date and Time: 15-FEB-2013 16:04
Instrument ID: BSMC5973.i
Client ID: CV0005F-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

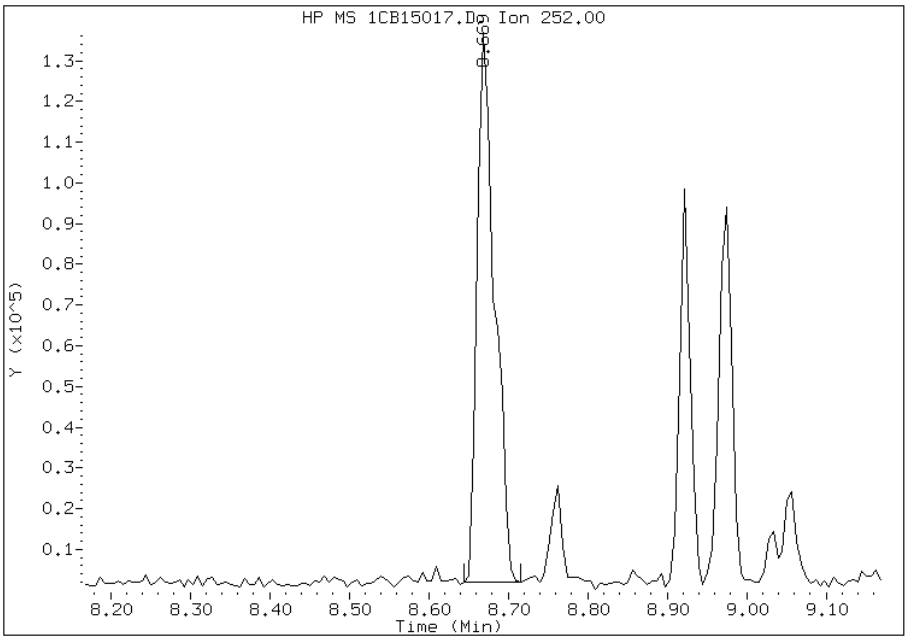
Processing Integration Results

RT: 8.67

Response: 206105

Amount: 3

Conc: 742



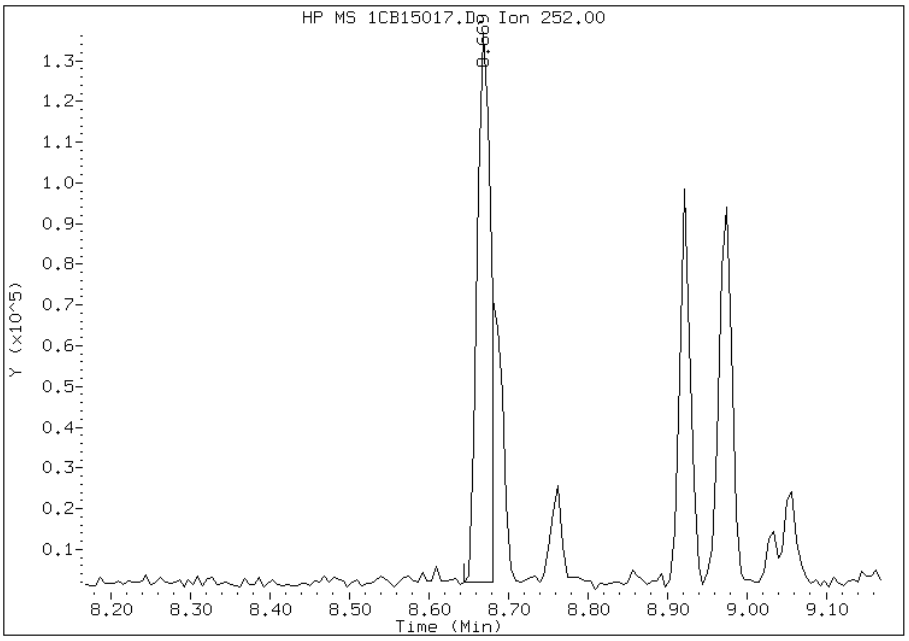
Manual Integration Results

RT: 8.67

Response: 159425

Amount: 2

Conc: 574



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:31
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15017.D
Inj. Date and Time: 15-FEB-2013 16:04
Instrument ID: BSMC5973.i
Client ID: CV0005F-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

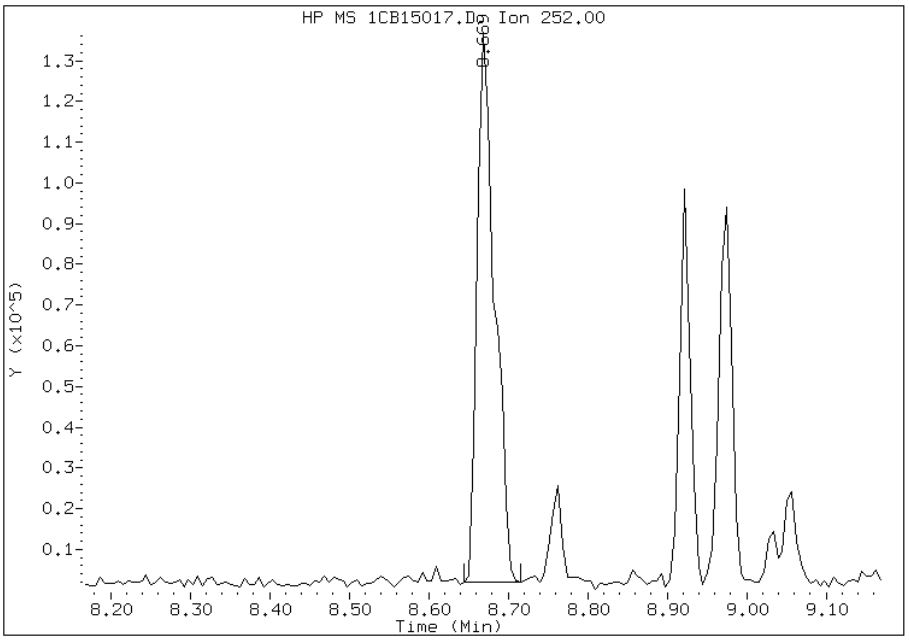
Processing Integration Results

RT: 8.67

Response: 205993

Amount: 2

Conc: 674



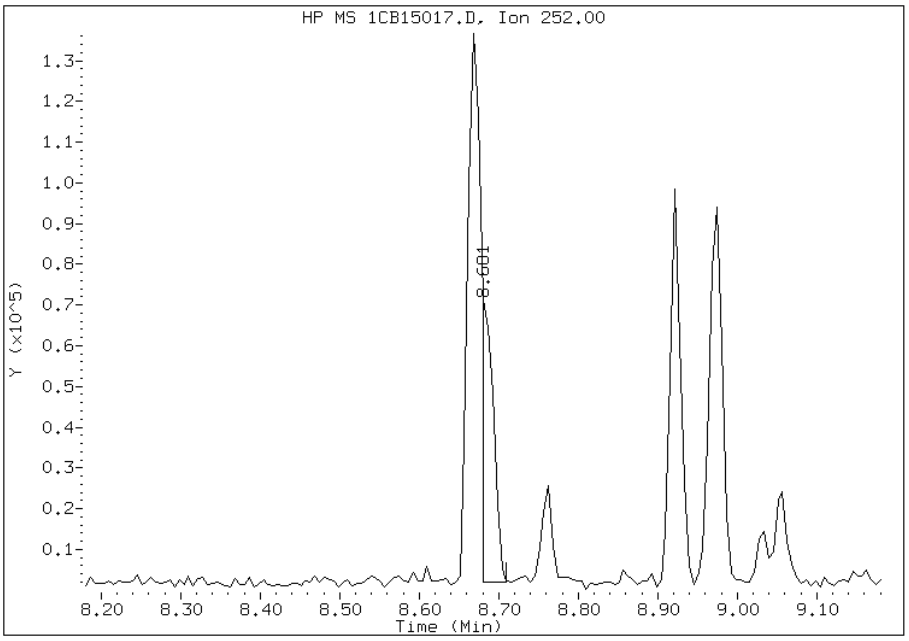
Manual Integration Results

RT: 8.68

Response: 70832

Amount: 1

Conc: 232



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15017.D
Inj. Date and Time: 15-FEB-2013 16:04
Instrument ID: BSMC5973.i
Client ID: CV0005F-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

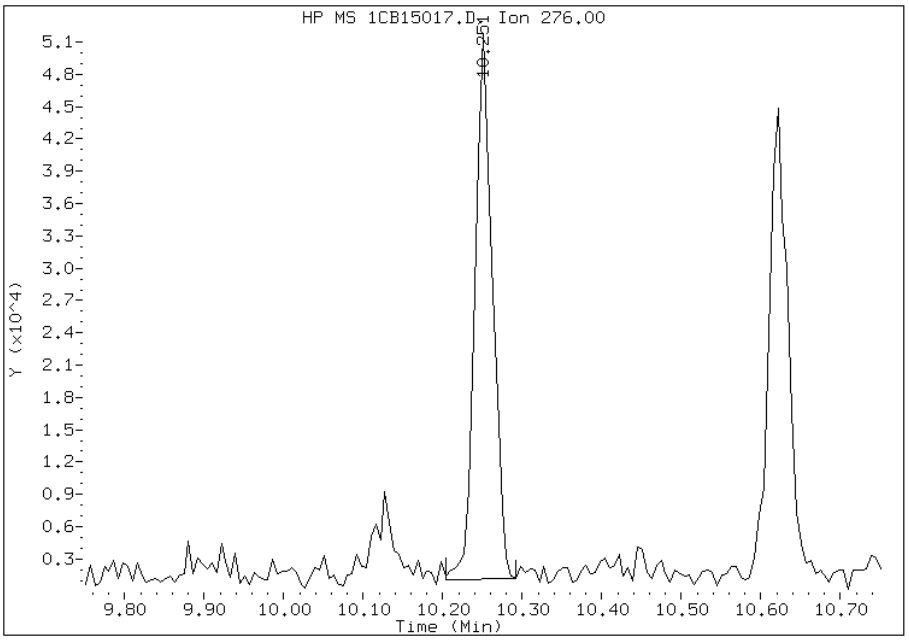
Processing Integration Results

RT: 10.25

Response: 76772

Amount: 1

Conc: 303



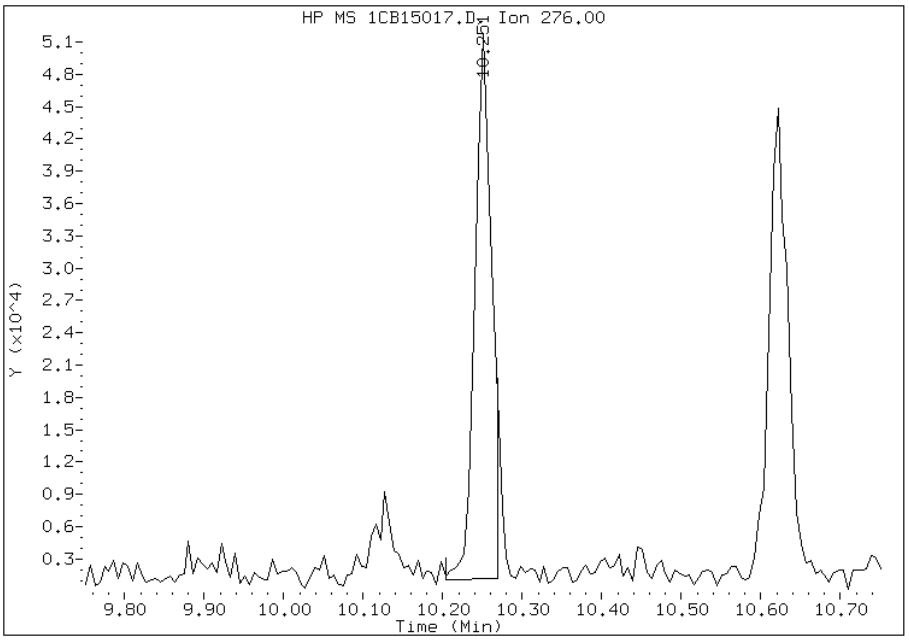
Manual Integration Results

RT: 10.25

Response: 73668

Amount: 1

Conc: 290



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 15:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005G-CS | Lab Sample ID: 680-87318-10

Matrix: Solid | Lab File ID: 1CB15018.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 11:25

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.11(g) | Date Analyzed: 02/15/2013 16:23

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

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

% Moisture: 2.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	18	J	41	5.1
120-12-7	Anthracene	19		8.6	4.3
56-55-3	Benzo[a]anthracene	140		8.2	4.0
50-32-8	Benzo[a]pyrene	150		11	5.3
205-99-2	Benzo[b]fluoranthene	230		12	6.2
191-24-2	Benzo[g,h,i]perylene	120		20	4.5
207-08-9	Benzo[k]fluoranthene	97		8.2	3.7
218-01-9	Chrysene	170		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	33		20	4.2
206-44-0	Fluoranthene	230		20	4.1
86-73-7	Fluorene	7.6	J	20	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	99		20	7.2
90-12-0	1-Methylnaphthalene	55		41	4.5
91-57-6	2-Methylnaphthalene	59		41	7.2
91-20-3	Naphthalene	49		41	4.5
85-01-8	Phenanthrene	150		8.2	4.0
129-00-0	Pyrene	210		20	3.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15018.D
Lab Smp Id: 680-87318-A-10-A Client Smp ID: CV0005G-CS
Inj Date : 15-FEB-2013 16:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-10-a
Misc Info : 680-87318-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	2.720	% 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	3.821	3.821	(1.000)	2443994	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1891156	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3339800	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	315170	6.44049	438.1568
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3473271	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3174634	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	46394	0.71637	48.7357
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	36513	0.86708	58.9889
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	30914	0.80718	54.9138
5 Acenaphthylene	152	4.821	4.821	(0.982)	20003	0.26586	18.0870
9 Fluorene	166	5.245	5.245	(1.068)	6745	0.11135	7.5754(Q)
11 Phenanthrene	178	5.874	5.880	(1.002)	212737	2.13397	145.1772
12 Anthracene	178	5.909	5.910	(1.008)	25255	0.28118	19.1290
13 Carbazole	167	6.015	6.015	(1.026)	29043	0.37226	25.3254

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	323654	3.32254	226.0373
16 Pyrene	202	6.886	6.886	(0.882)	289854	3.13468	213.2569
17 Benzo(a)anthracene	228	7.803	7.804	(0.999)	194821	2.03404	138.3790
19 Chrysene	228	7.827	7.833	(1.002)	247380	2.50041	170.1065
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	267804	3.44081	234.0837(M)
21 Benzo(k)fluoranthene	252	8.680	8.698	(0.961)	122139	1.42445	96.9075(M)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	159143	2.14880	146.1865
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	102999	1.44795	98.5065(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	32515	0.48471	32.9758
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	125300	1.73406	117.9708

QC Flag Legend

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

Data File: 1CB15018.D

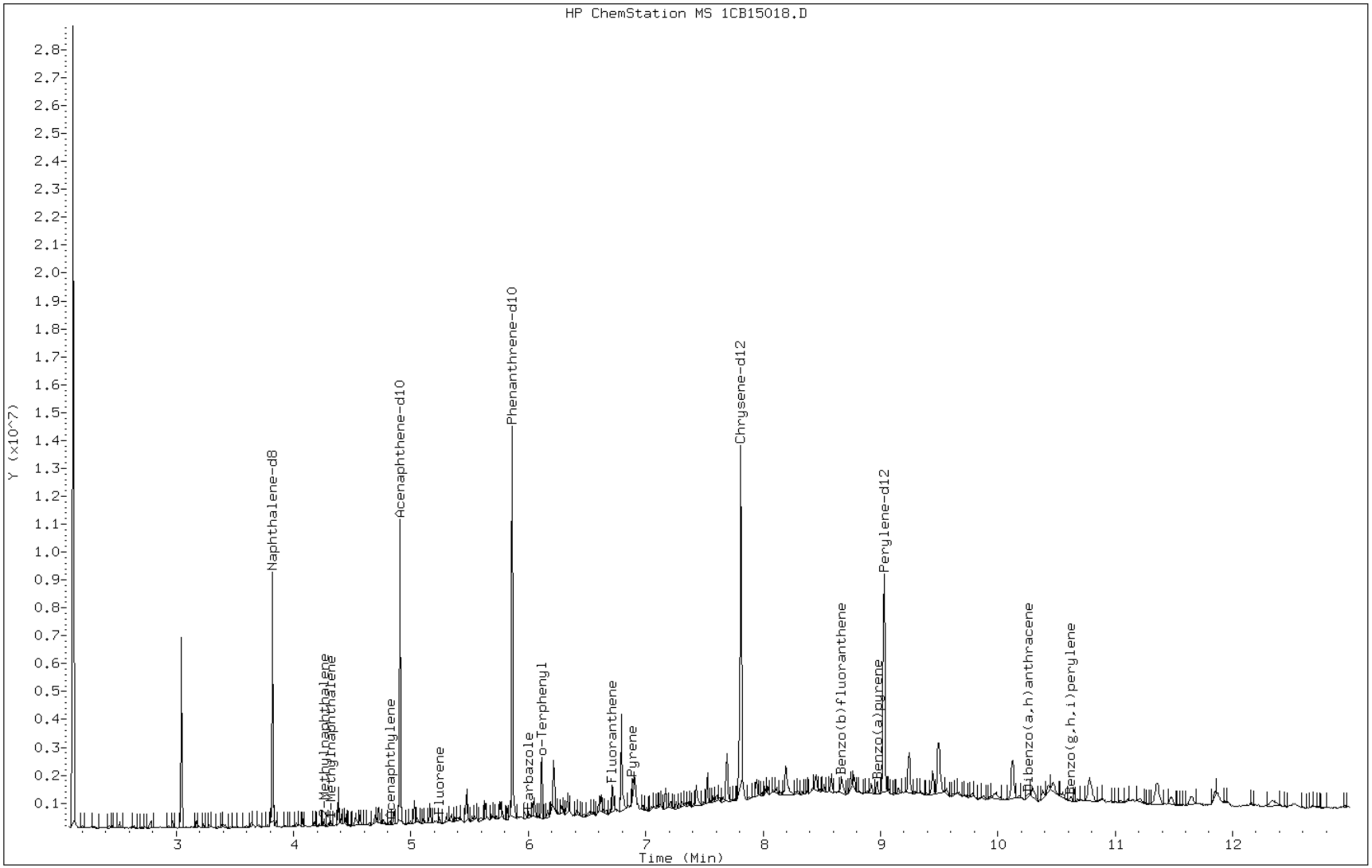
Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a

Operator: SCC



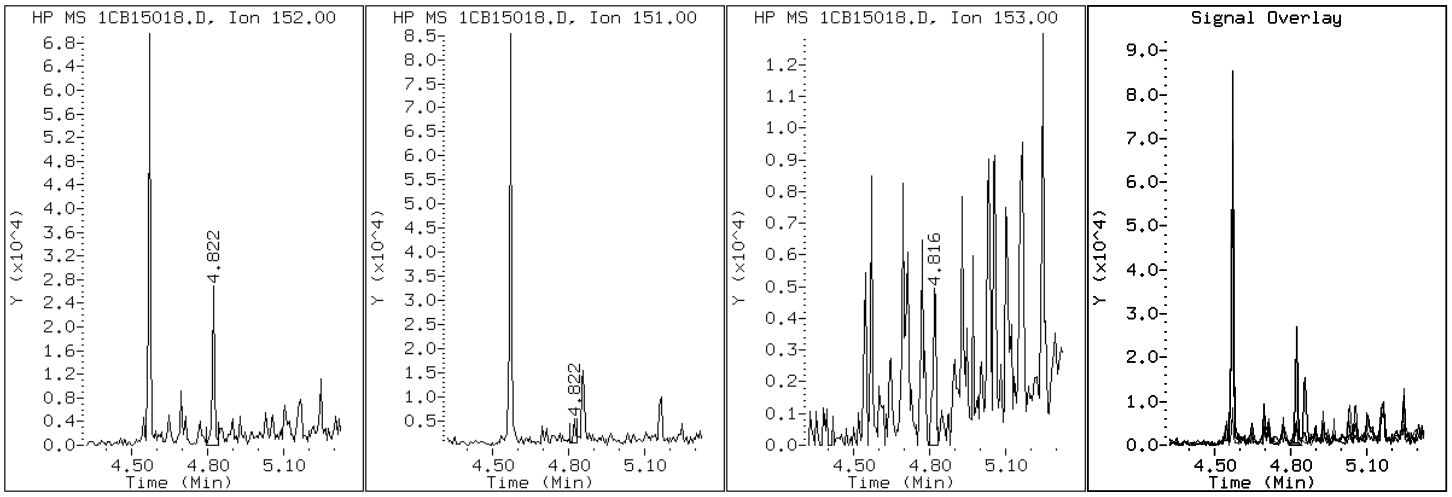
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

5 Acenaphthylene



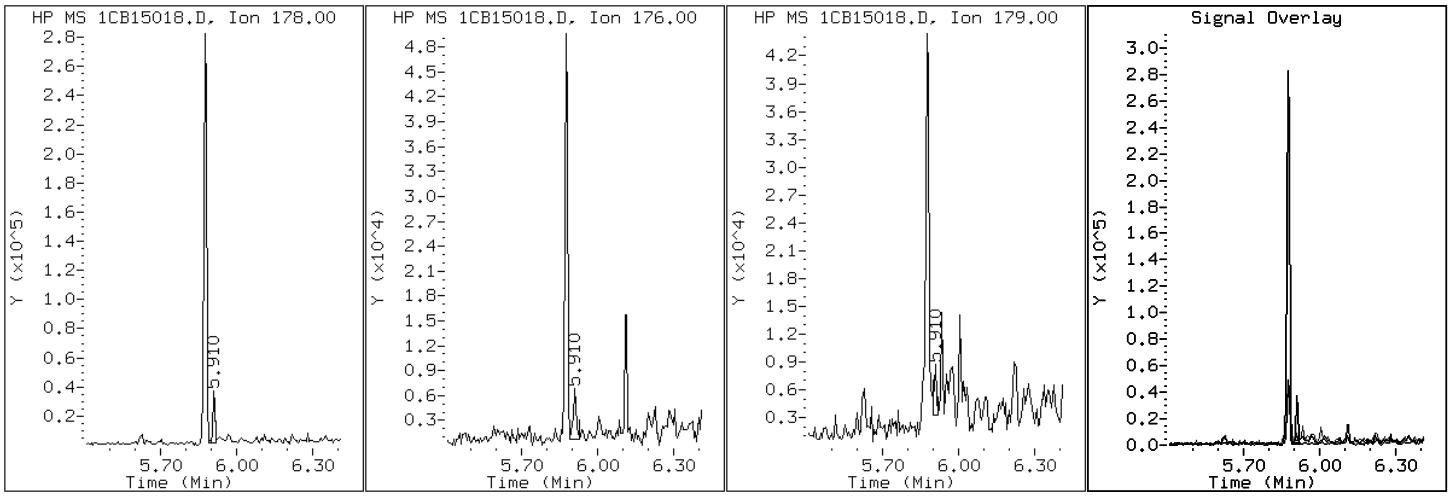
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

12 Anthracene



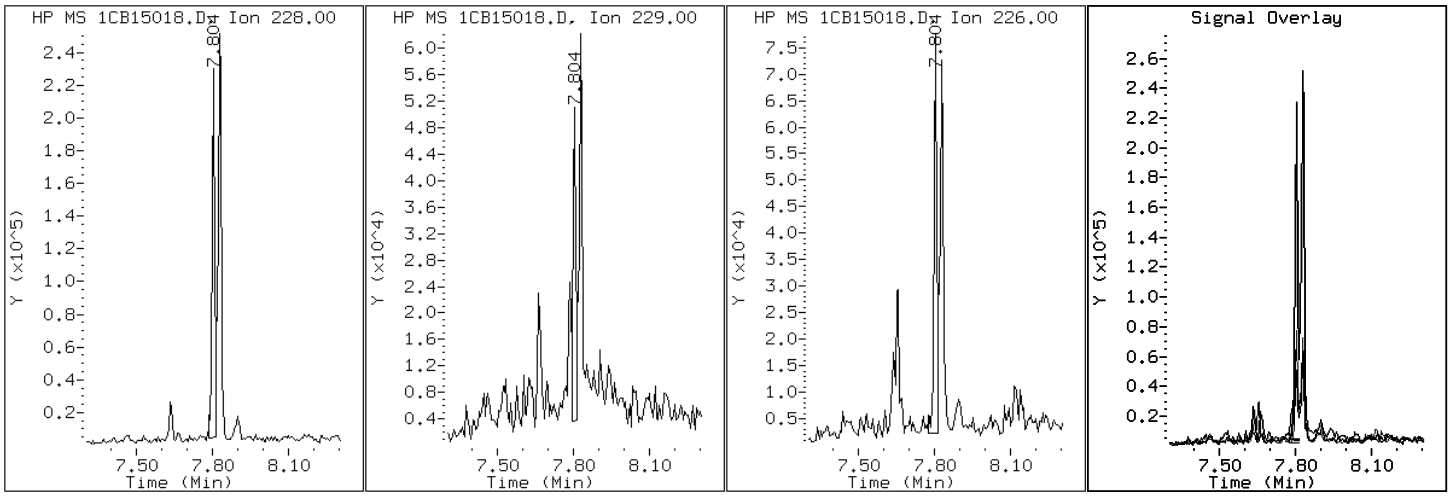
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

17 Benzo(a)anthracene



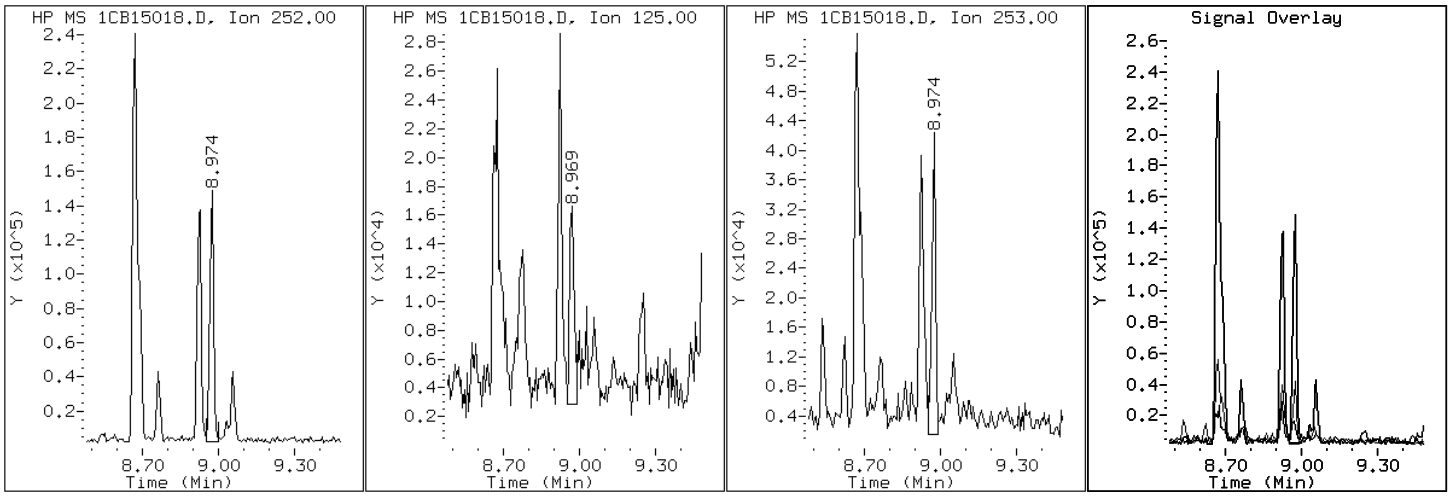
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

22 Benzo(a)pyrene



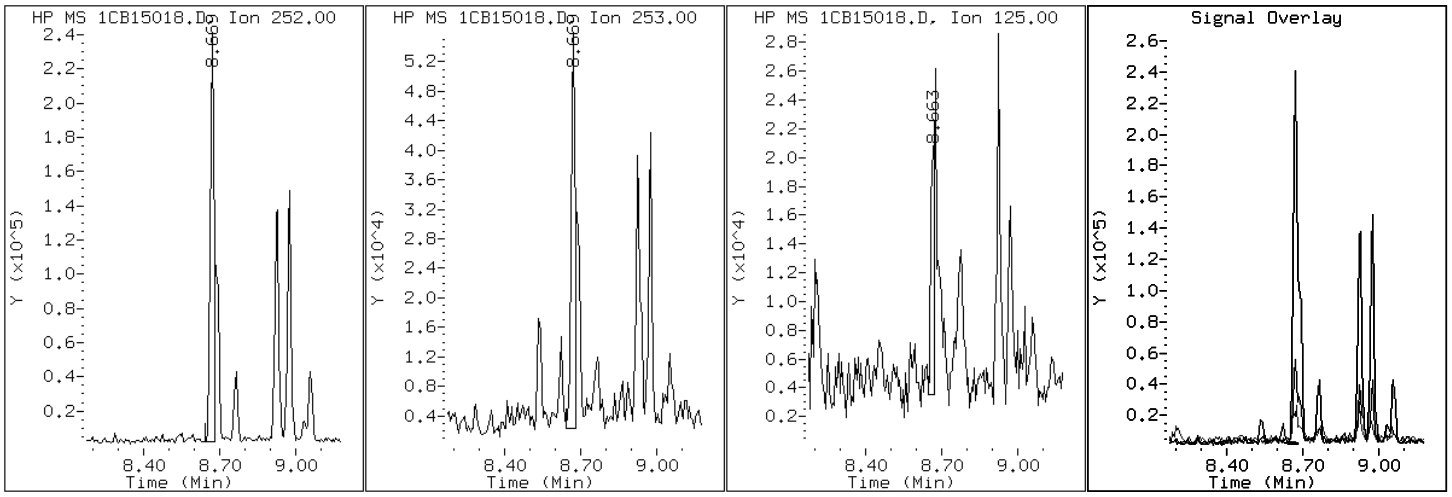
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

20 Benzo(b)fluoranthene



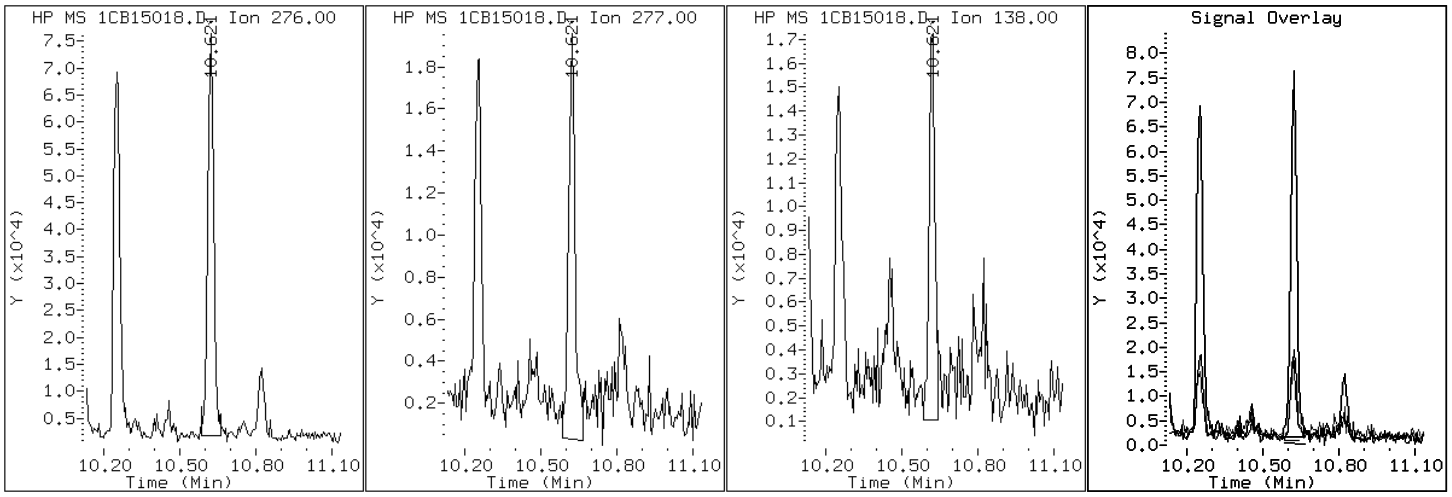
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

26 Benzo(g,h,i)perylene



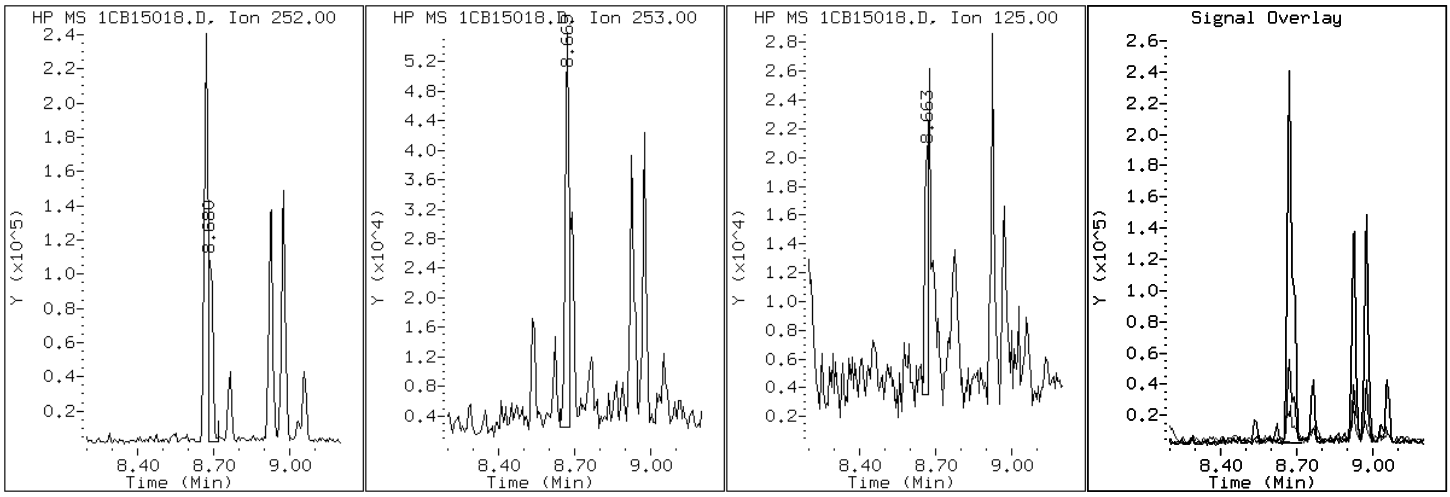
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

21 Benzo(k)fluoranthene



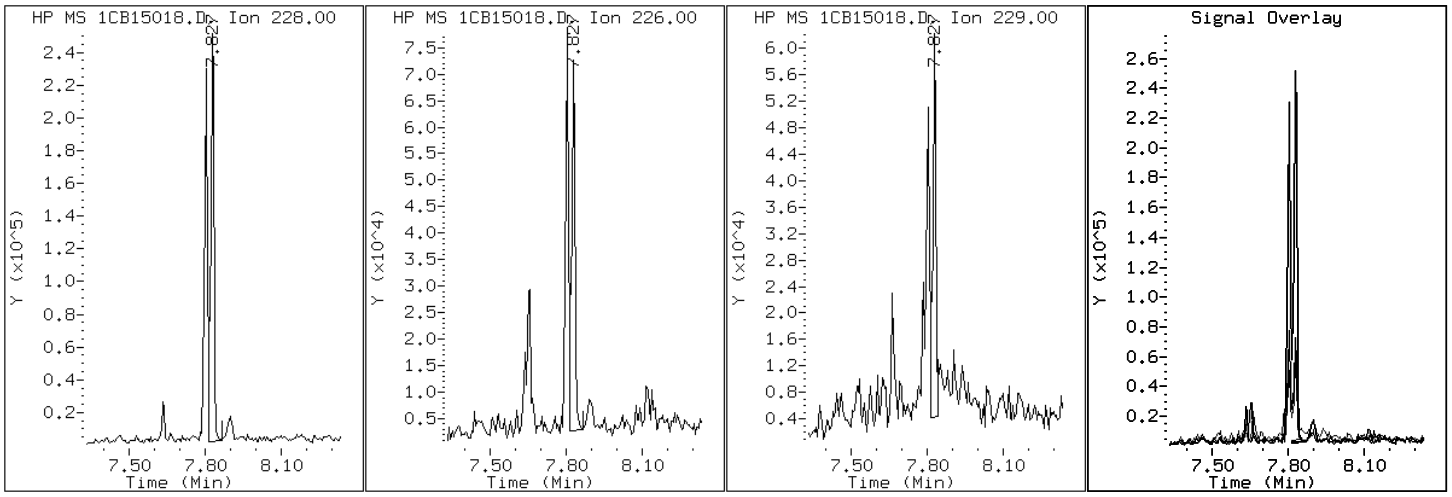
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

19 Chrysene



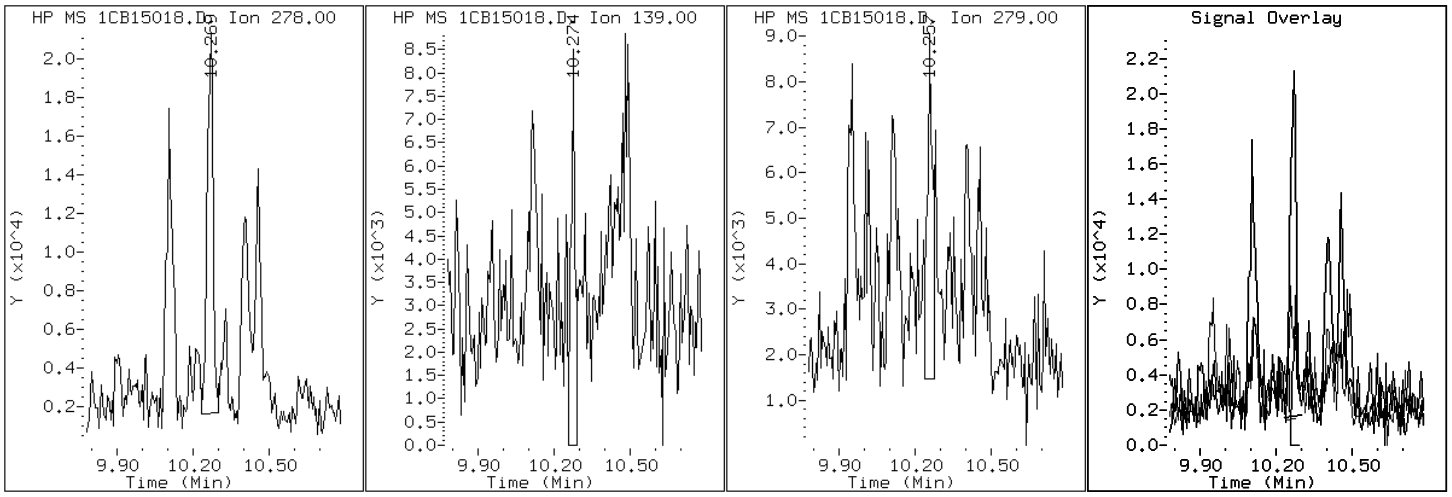
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

25 Dibenzo(a,h)anthracene



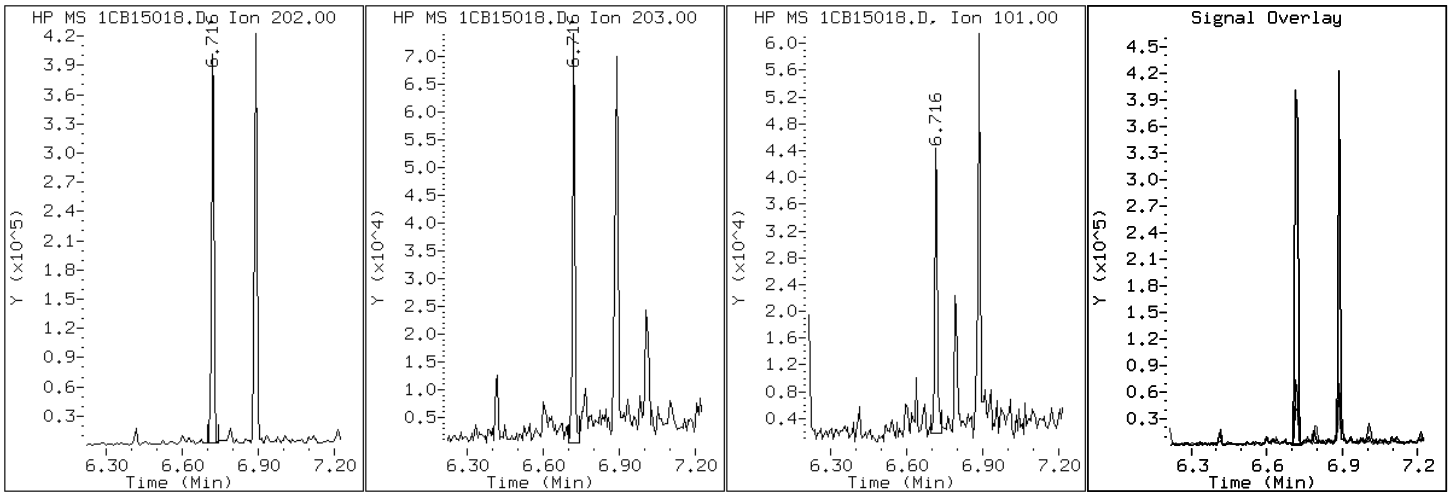
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

15 Fluoranthene



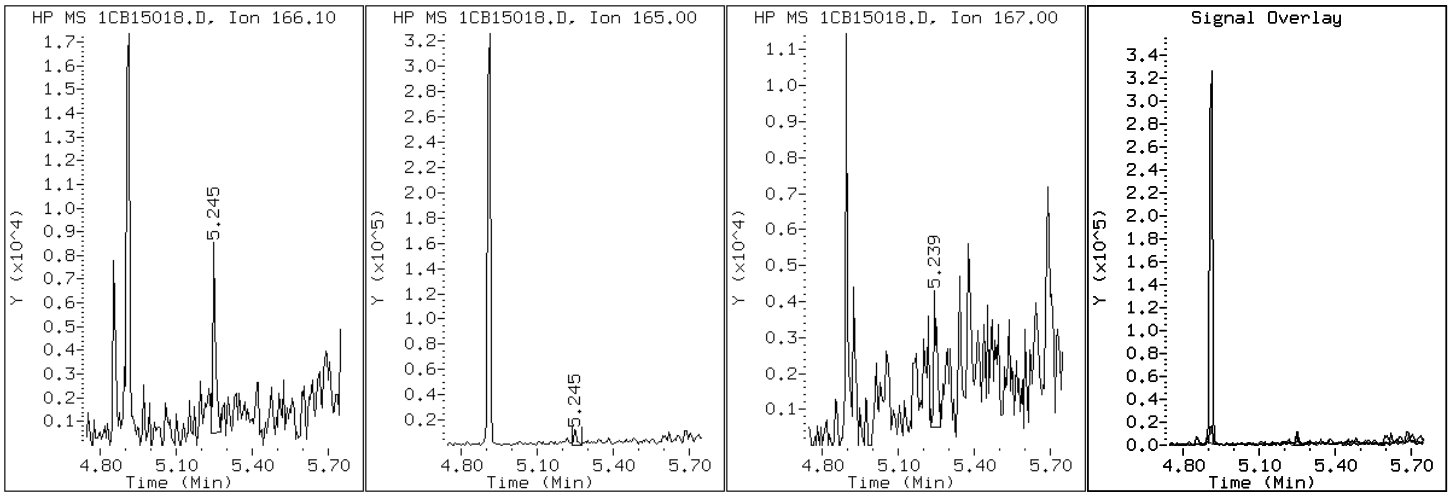
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

9 Fluorene



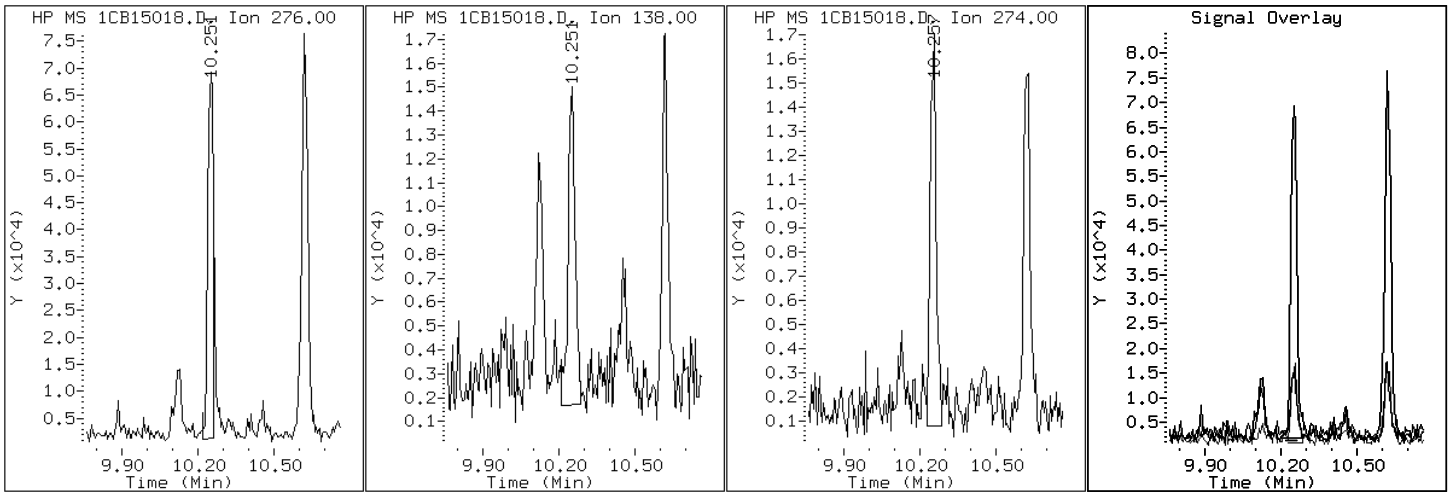
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

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



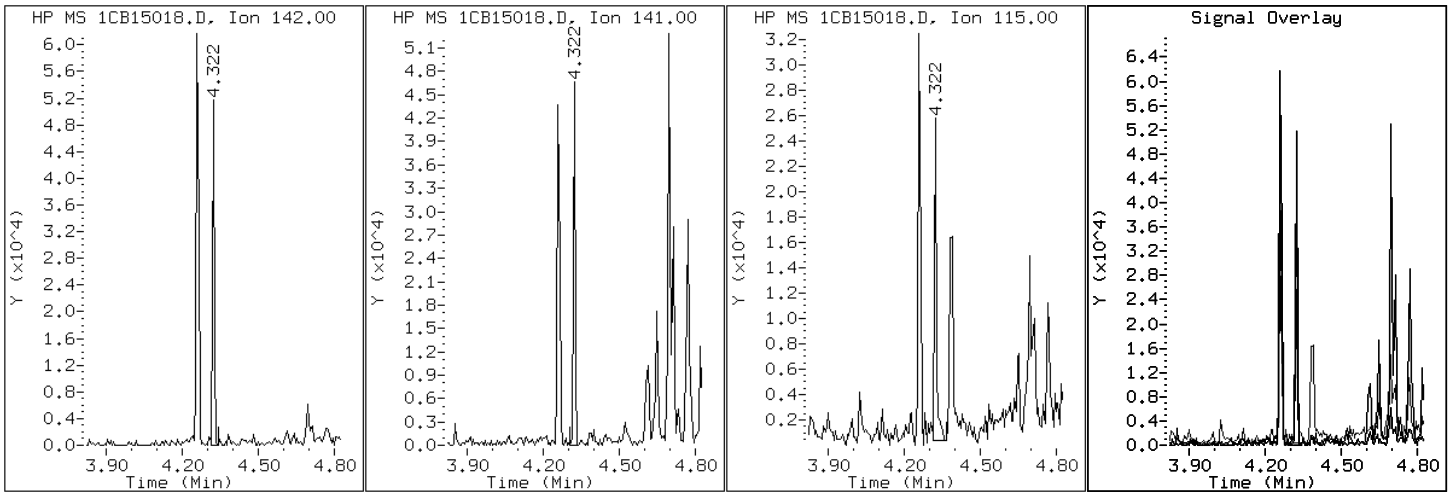
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

4 1-Methylnaphthalene



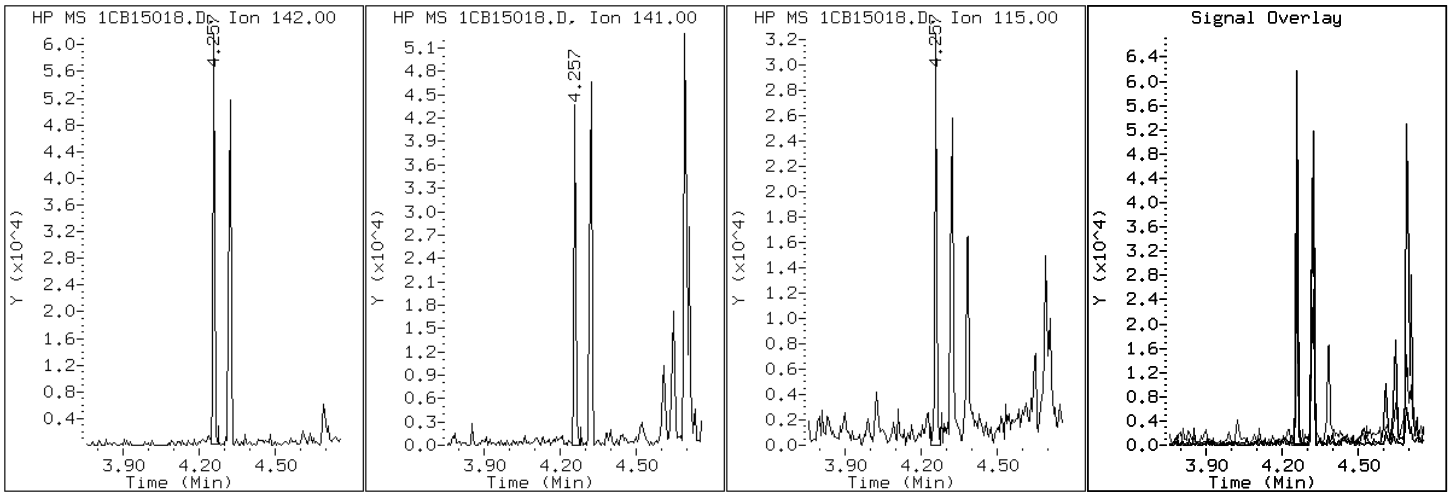
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

3 2-Methylnaphthalene



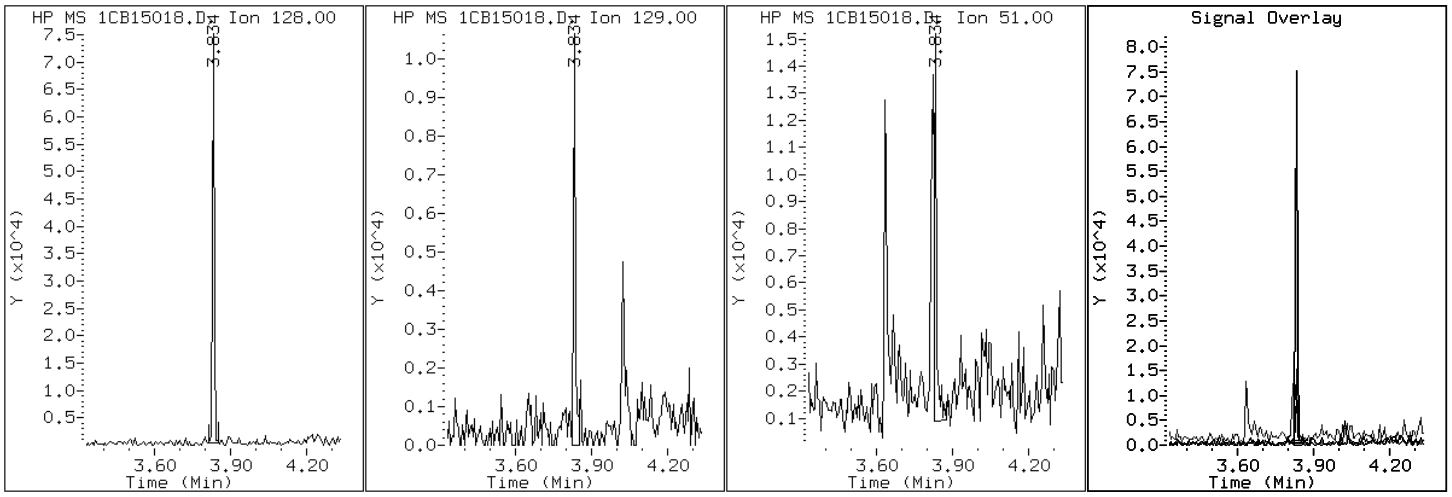
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

2 Naphthalene



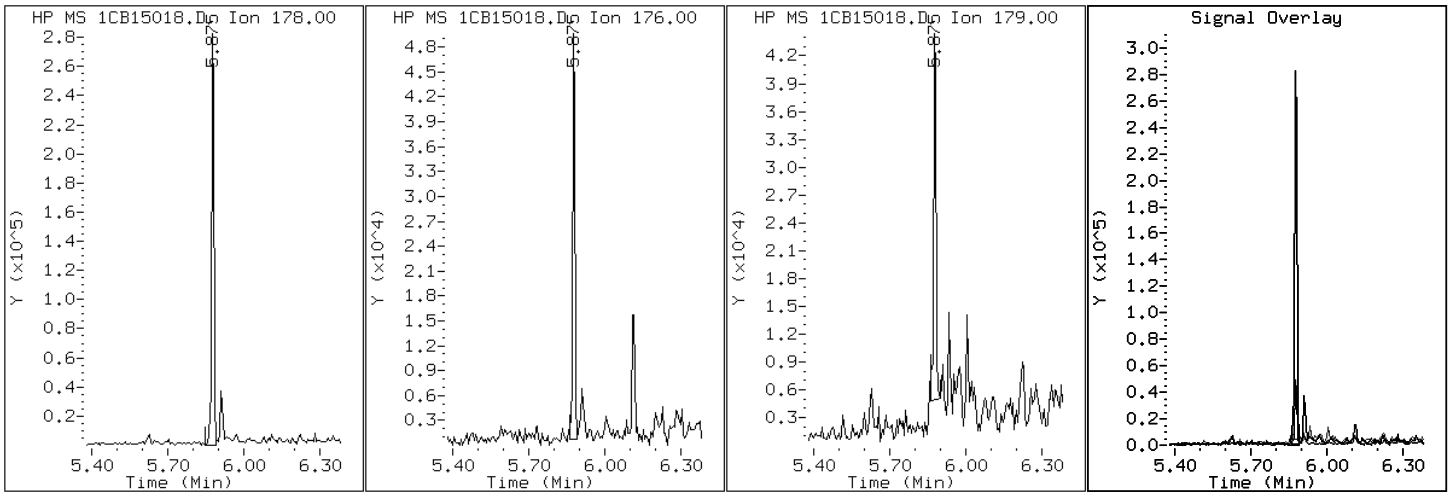
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

11 Phenanthrene



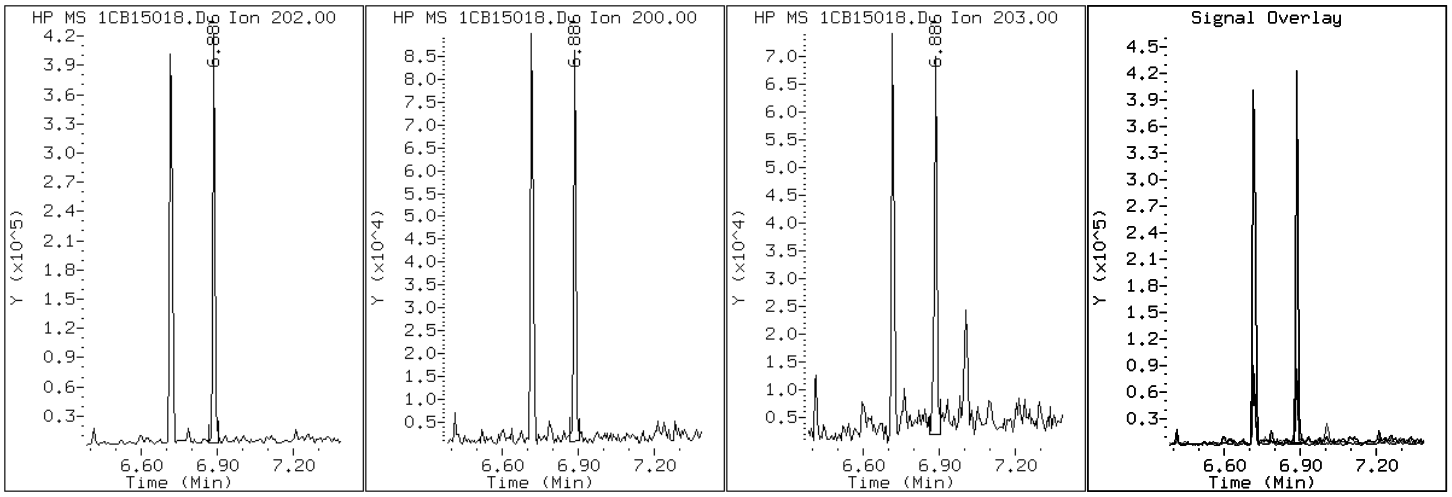
Data File: 1CB15018.D

Date: 15-FEB-2013 16:23

Client ID: CV0005G-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-10-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15018.D
Inj. Date and Time: 15-FEB-2013 16:23
Instrument ID: BSMC5973.i
Client ID: CV0005G-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

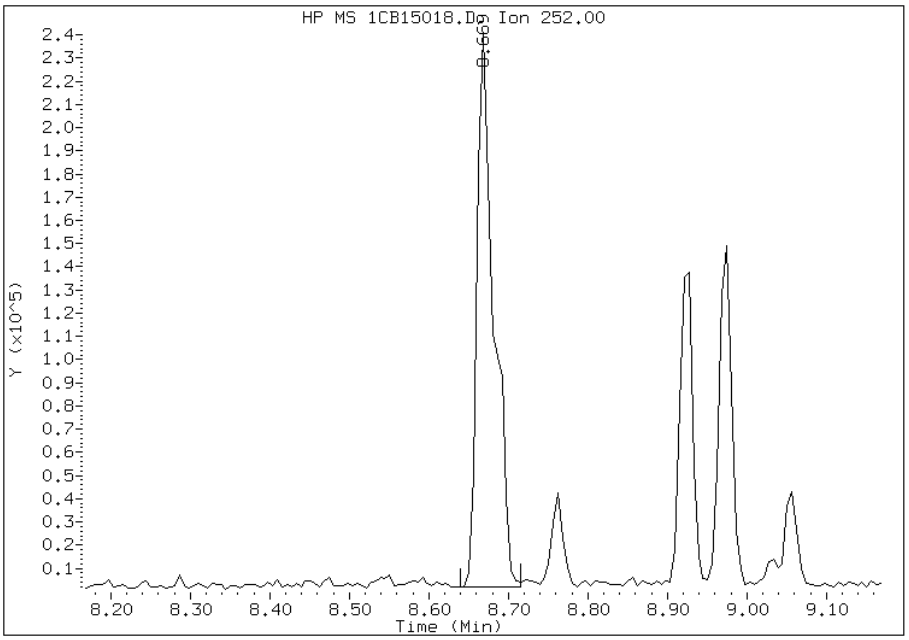
Processing Integration Results

RT: 8.67

Response: 352549

Amount: 5

Conc: 308



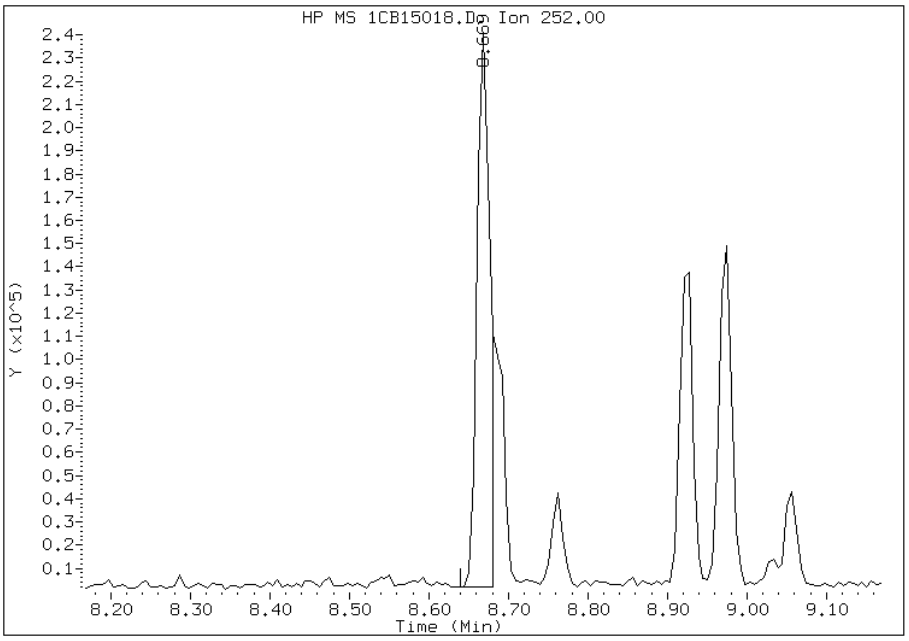
Manual Integration Results

RT: 8.67

Response: 267804

Amount: 3

Conc: 234



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15018.D
Inj. Date and Time: 15-FEB-2013 16:23
Instrument ID: BSMC5973.i
Client ID: CV0005G-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

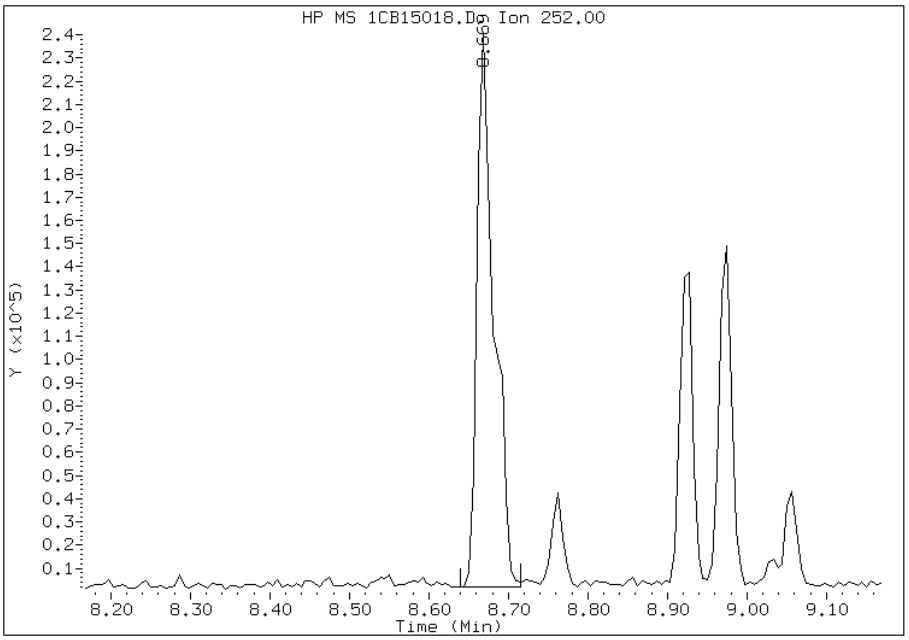
Processing Integration Results

RT: 8.67

Response: 352549

Amount: 4

Conc: 280



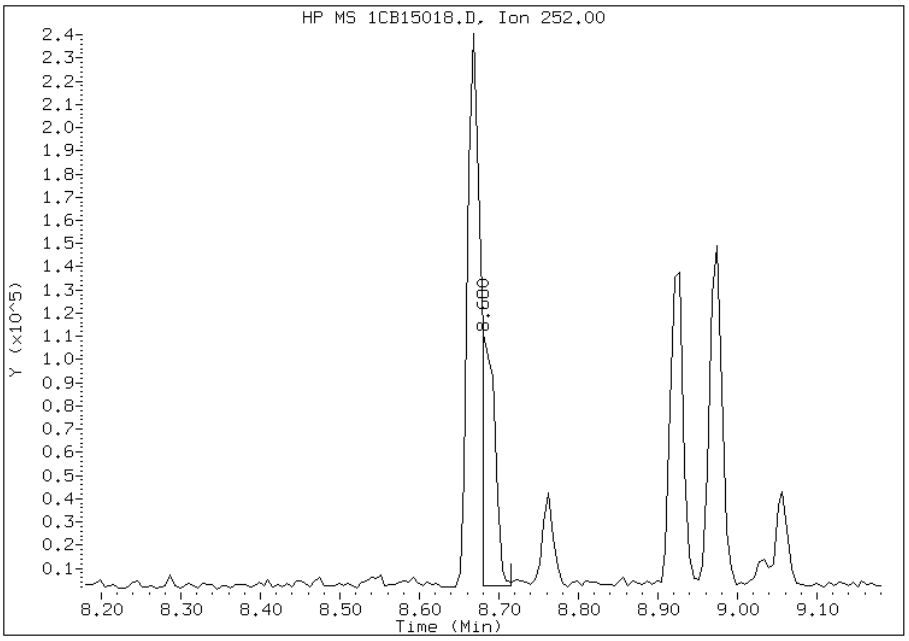
Manual Integration Results

RT: 8.68

Response: 122139

Amount: 1

Conc: 97



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15018.D
Inj. Date and Time: 15-FEB-2013 16:23
Instrument ID: BSMC5973.i
Client ID: CV0005G-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

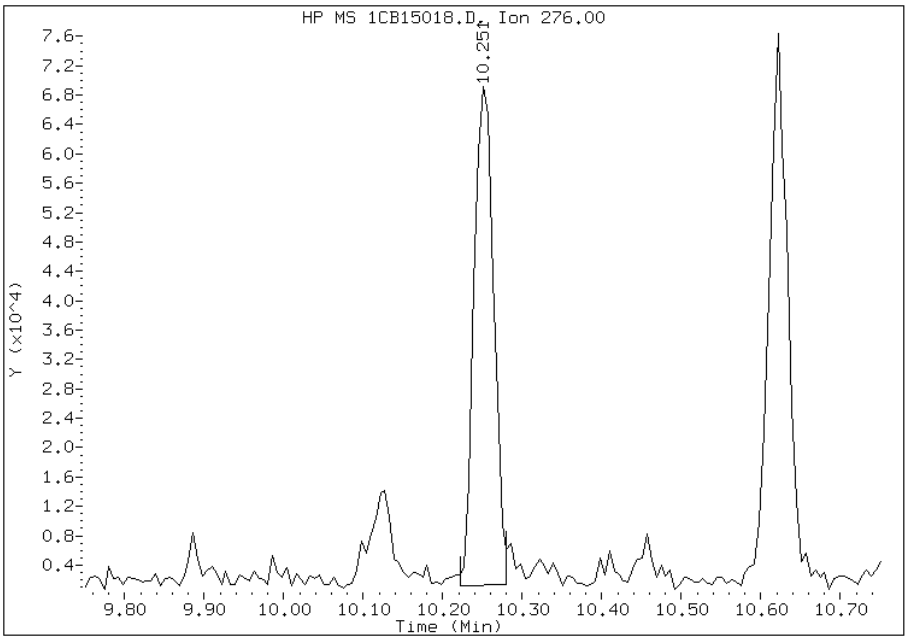
Processing Integration Results

RT: 10.25

Response: 116700

Amount: 2

Conc: 112



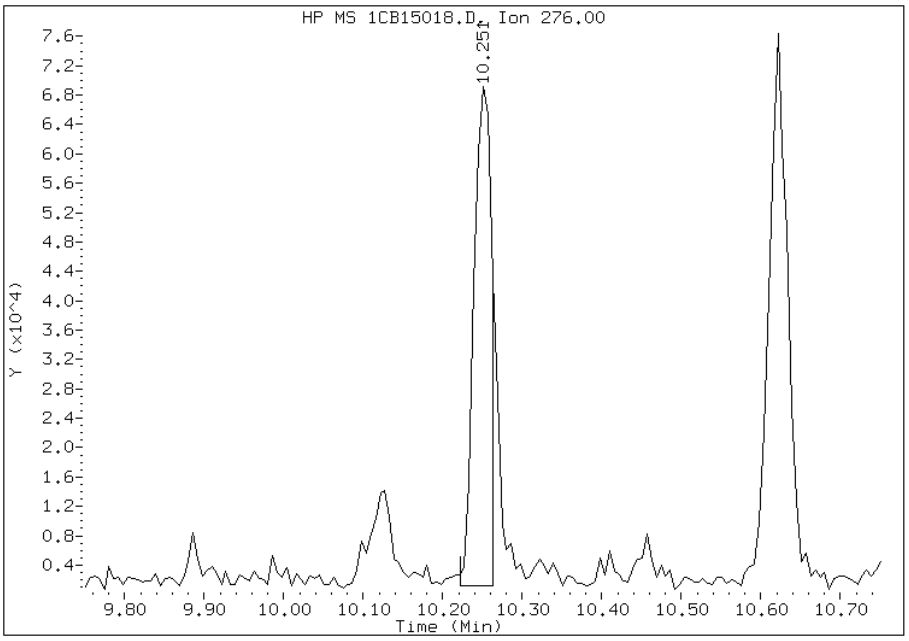
Manual Integration Results

RT: 10.25

Response: 102999

Amount: 1

Conc: 99



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005G-CSD | Lab Sample ID: 680-87318-11

Matrix: Solid | Lab File ID: 1CB15019.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 11:28

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.21(g) | Date Analyzed: 02/15/2013 16:41

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

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

% Moisture: 21.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	25	J	120	25
208-96-8	Acenaphthylene	73		50	6.2
120-12-7	Anthracene	70		10	5.2
56-55-3	Benzo[a]anthracene	440		10	4.9
50-32-8	Benzo[a]pyrene	500		13	6.5
205-99-2	Benzo[b]fluoranthene	900		15	7.6
191-24-2	Benzo[g,h,i]perylene	380		25	5.5
207-08-9	Benzo[k]fluoranthene	290		10	4.5
218-01-9	Chrysene	610		11	5.6
53-70-3	Dibenz(a,h)anthracene	110		25	5.1
206-44-0	Fluoranthene	1500		25	5.0
86-73-7	Fluorene	40		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	310		25	8.9
90-12-0	1-Methylnaphthalene	80		50	5.5
91-57-6	2-Methylnaphthalene	79		50	8.9
91-20-3	Naphthalene	85		50	5.5
85-01-8	Phenanthrene	940		10	4.9
129-00-0	Pyrene	1200		25	4.6

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\1C021513.b\1CB15019.D
Lab Smp Id: 680-87318-A-11-A Client Smp ID: CV0005G-CSD
Inj Date : 15-FEB-2013 16:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-11-a
Misc Info : 680-87318-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.210	Weight Extracted
M	21.088	% 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	3.821	3.821	(1.000)	2539640	40.0000	
* 6 Acenaphthene-d10	164	4.909	4.910	(1.000)	1937312	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3421193	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	359472	7.17104	597.4588
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3513513	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3163642	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	68568	1.01888	84.8888
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	41475	0.94782	78.9682
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	38341	0.96340	80.2663
5 Acenaphthylene	152	4.821	4.821	(0.982)	67154	0.87129	72.5917
7 Acenaphthene	154	4.927	4.927	(1.004)	14781	0.30577	25.4755
9 Fluorene	166	5.245	5.245	(1.068)	30090	0.48492	40.4010
11 Phenanthrene	178	5.880	5.880	(1.003)	1151503	11.2759	939.4611
12 Anthracene	178	5.909	5.910	(1.008)	77272	0.83985	69.9723

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	(1.026)	148602	1.85940	154.9168
15 Fluoranthene	202	6.721	6.721	(1.146)	1759185	17.6296	1468.8213
16 Pyrene	202	6.886	6.886	(0.882)	1362356	14.5647	1213.4642
17 Benzo(a)anthracene	228	7.803	7.804	(0.999)	512909	5.29373	441.0494
19 Chrysene	228	7.833	7.833	(1.003)	728224	7.27626	606.2251
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	834883	10.7640	896.8119(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	295263	3.45548	287.8948(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	446373	6.04802	503.8941
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	260033	3.66823	305.6202(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	85710	1.28215	106.8231
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	331671	4.60603	383.7539

QC Flag Legend

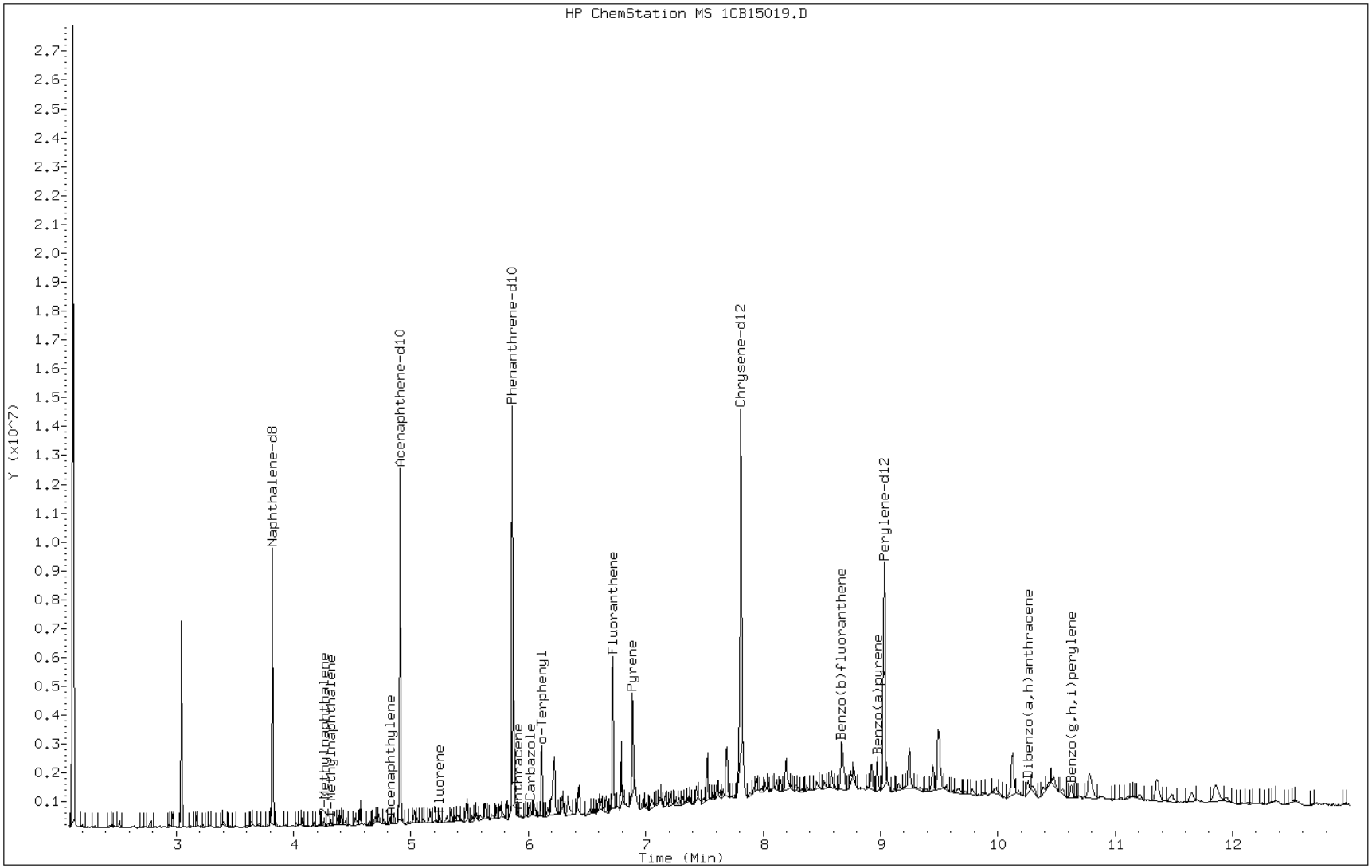
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC



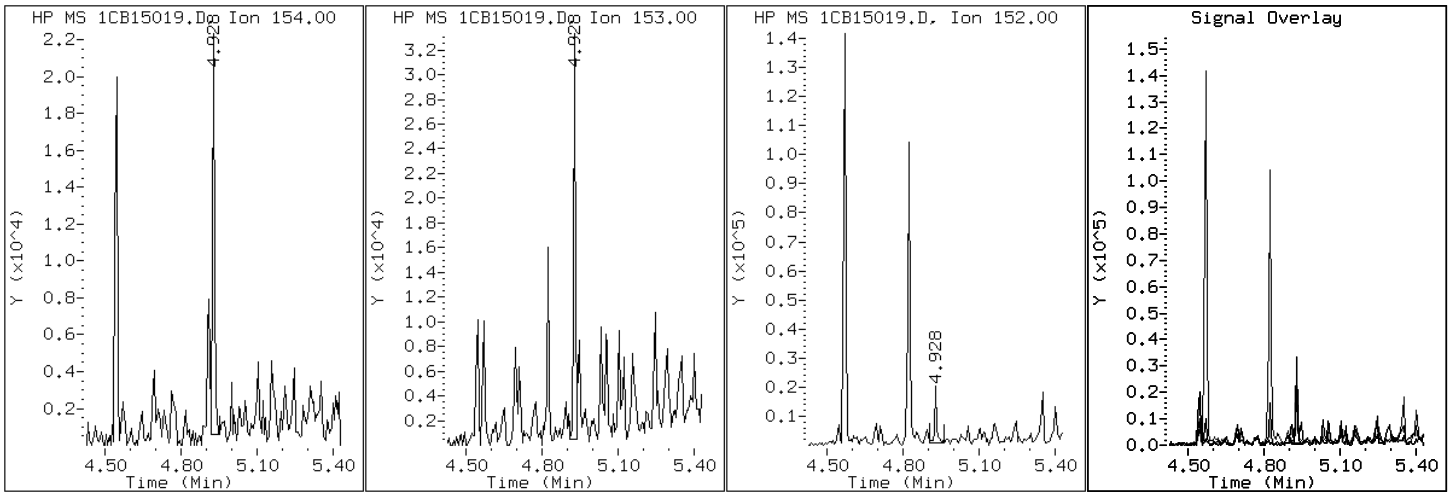
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

7 Acenaphthene



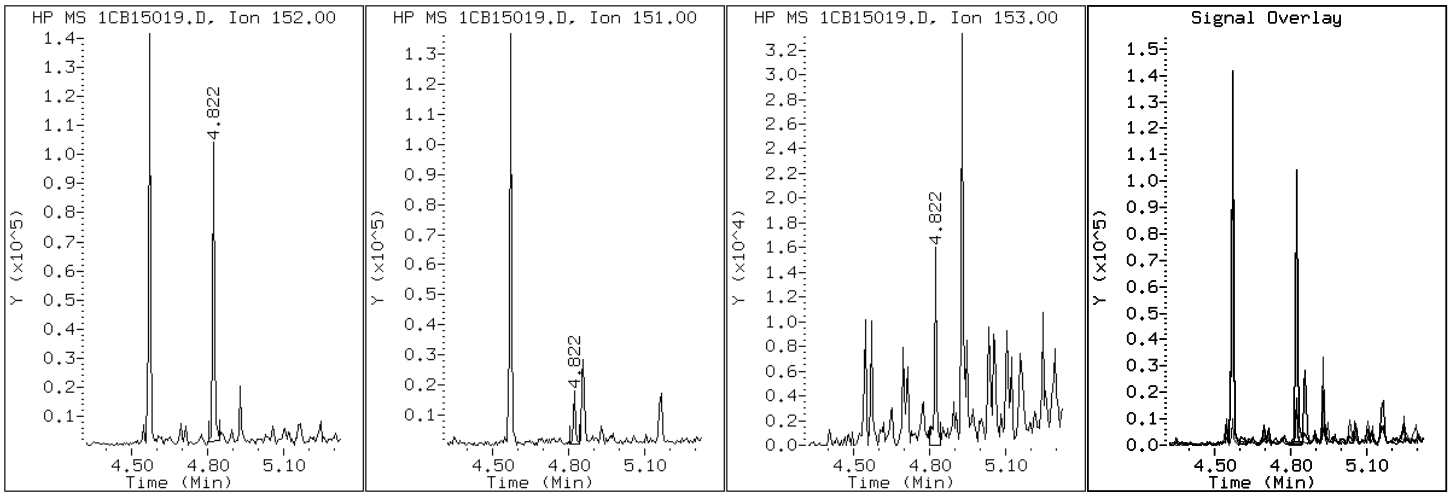
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

5 Acenaphthylene



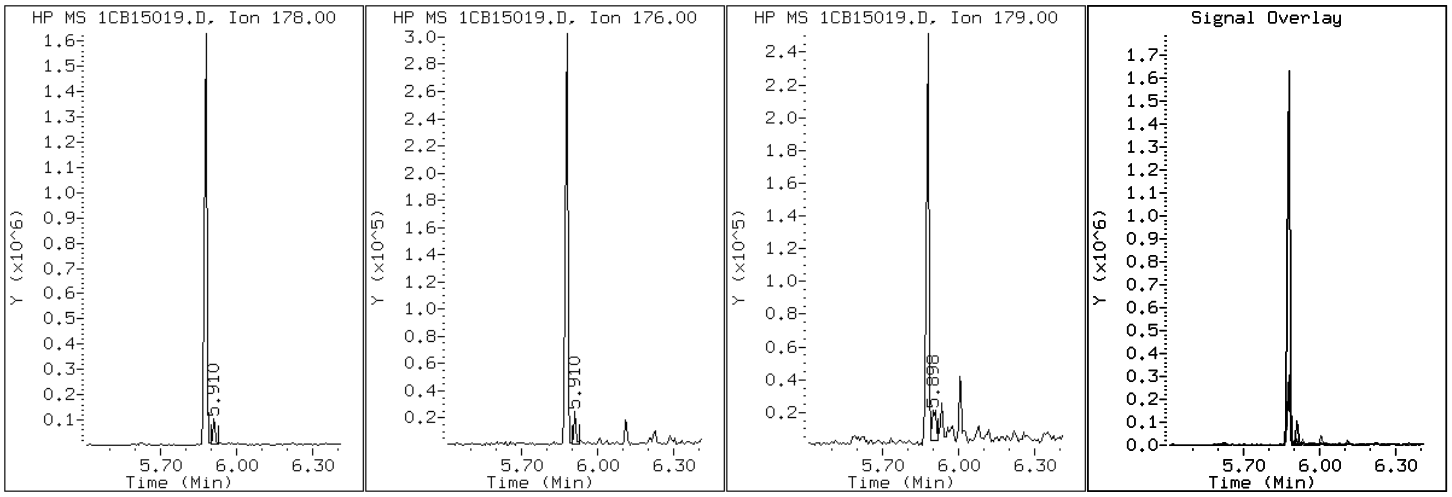
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

12 Anthracene



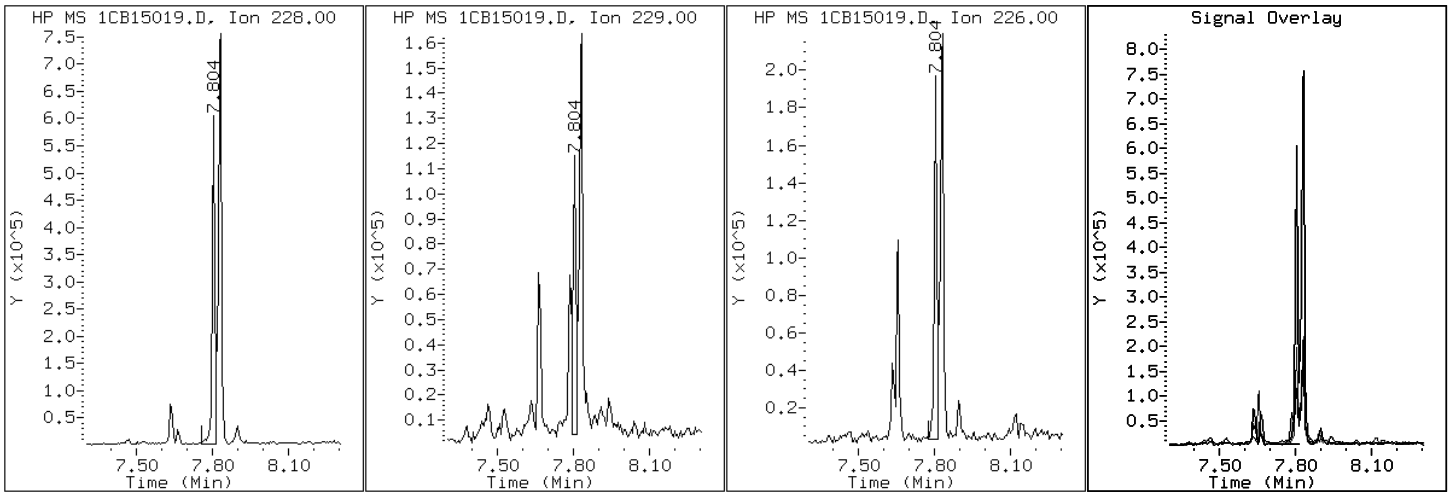
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

17 Benzo(a)anthracene



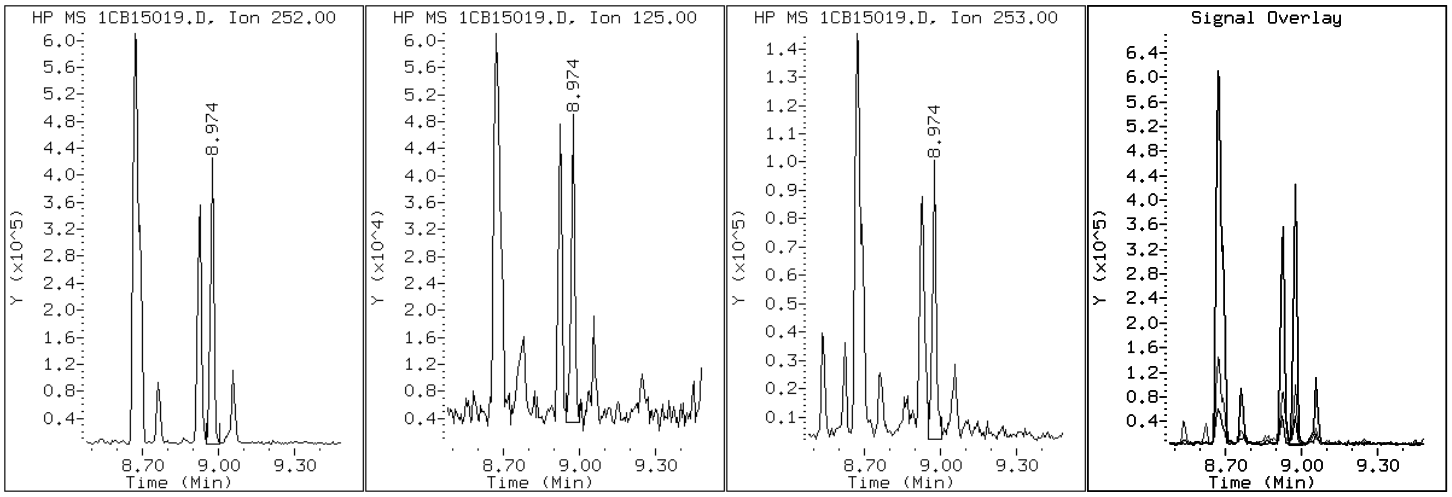
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

22 Benzo(a)pyrene



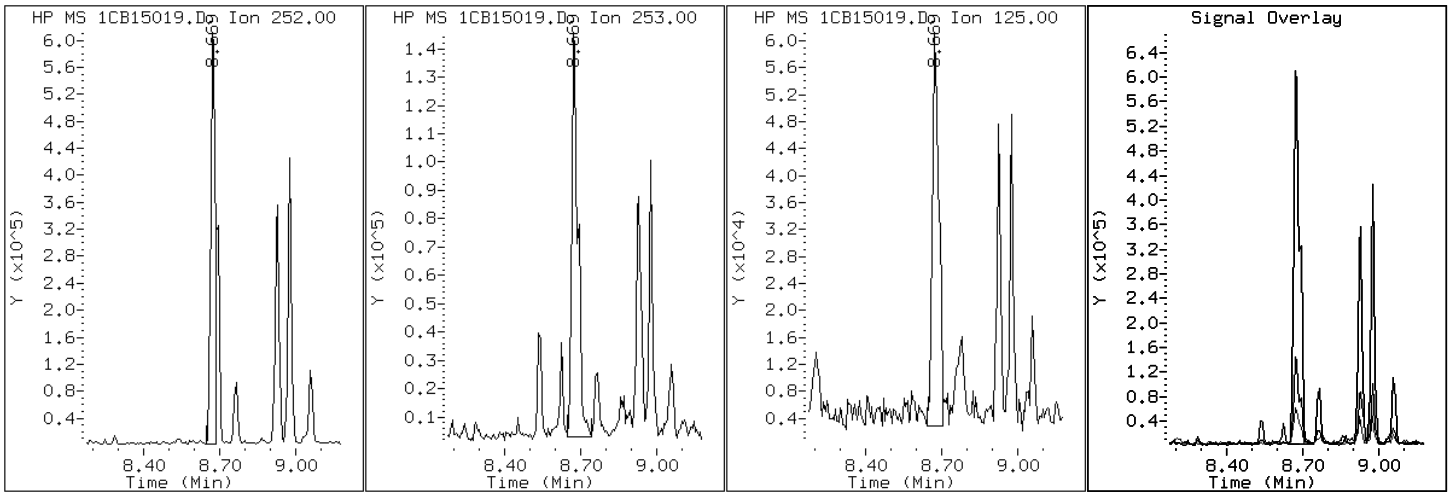
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

20 Benzo(b)fluoranthene



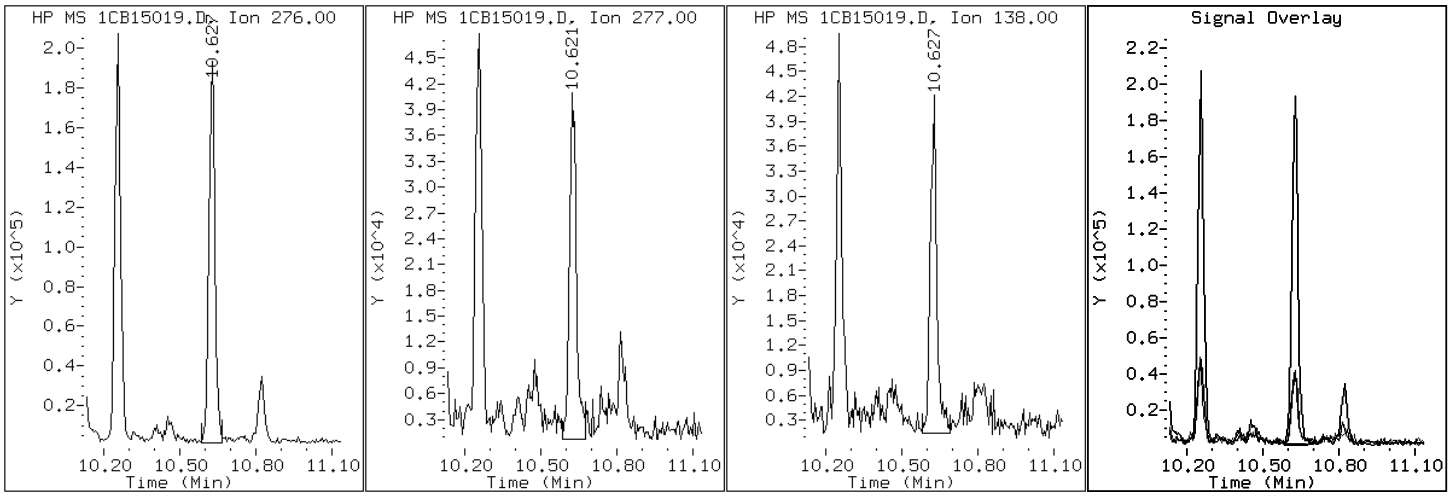
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

26 Benzo(g,h,i)perylene



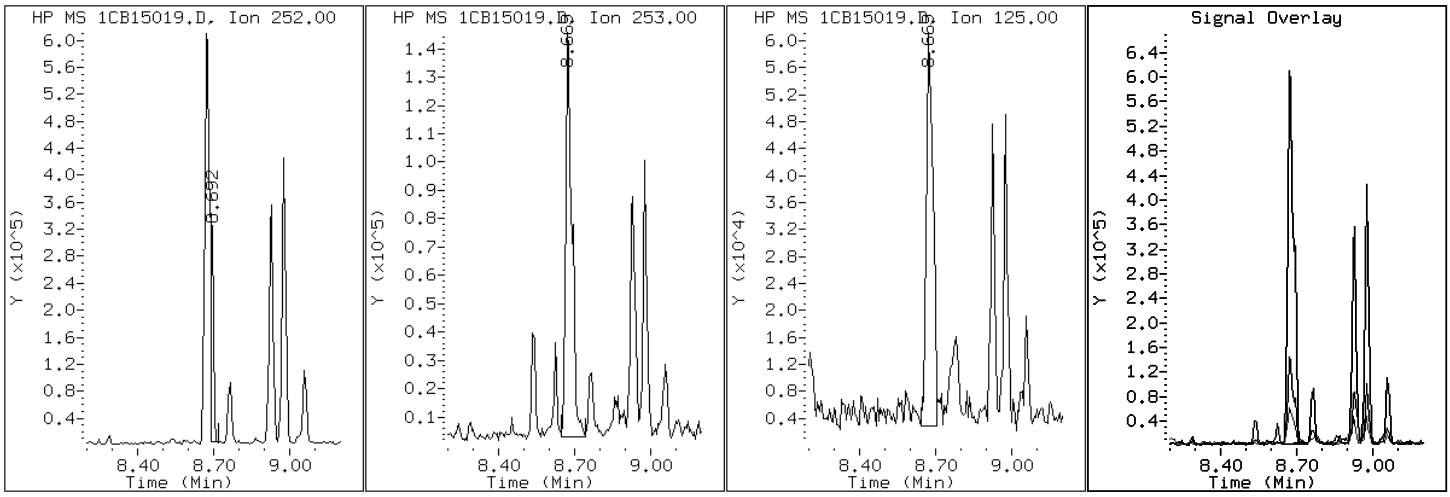
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

21 Benzo(k)fluoranthene



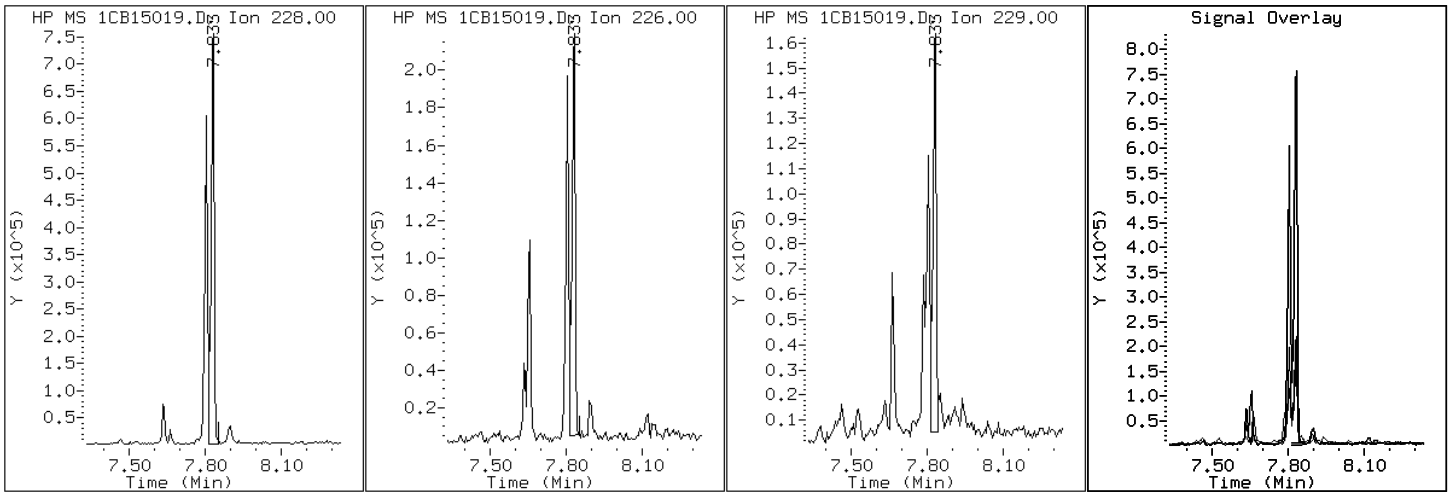
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

19 Chrysene



Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

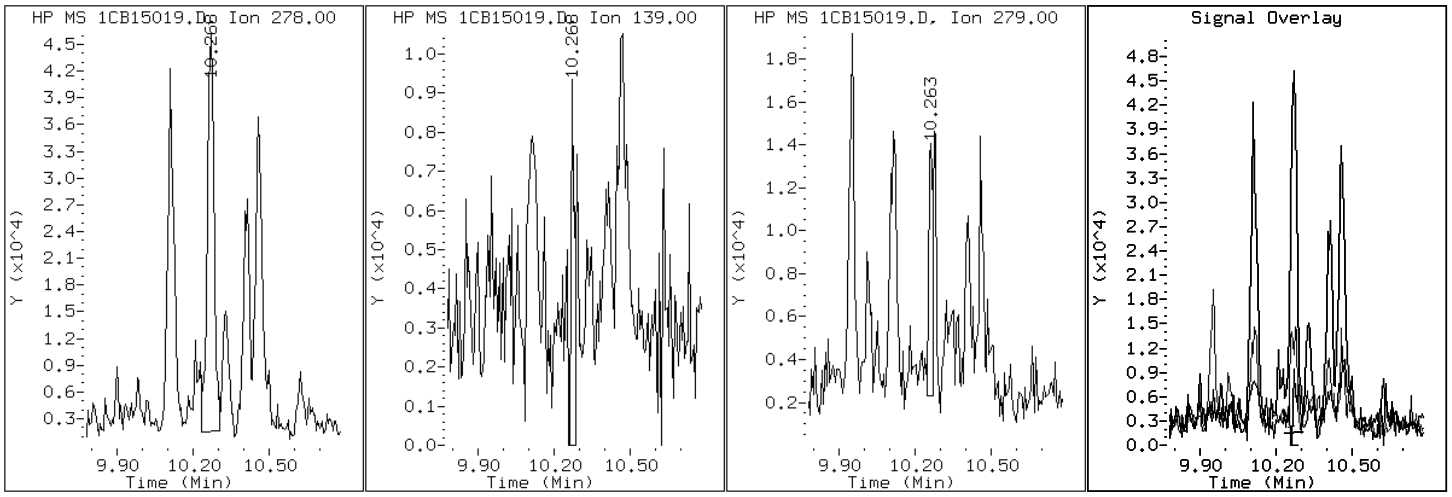
Client ID: CV0005G-CSD

Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a

Operator: SCC

25 Dibenzo(a,h)anthracene



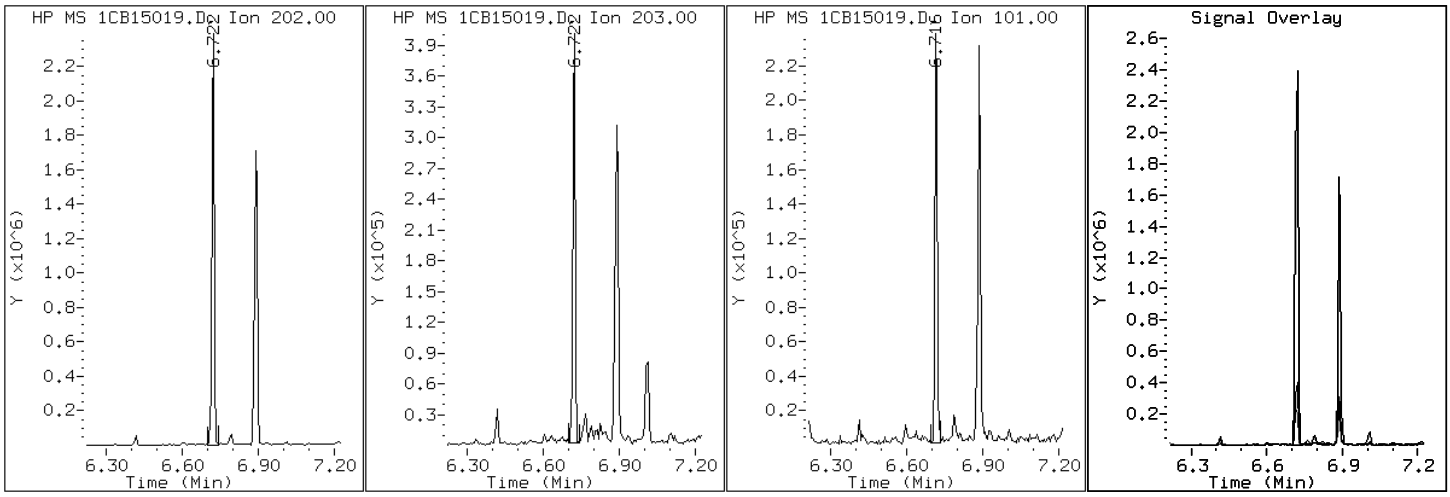
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

15 Fluoranthene



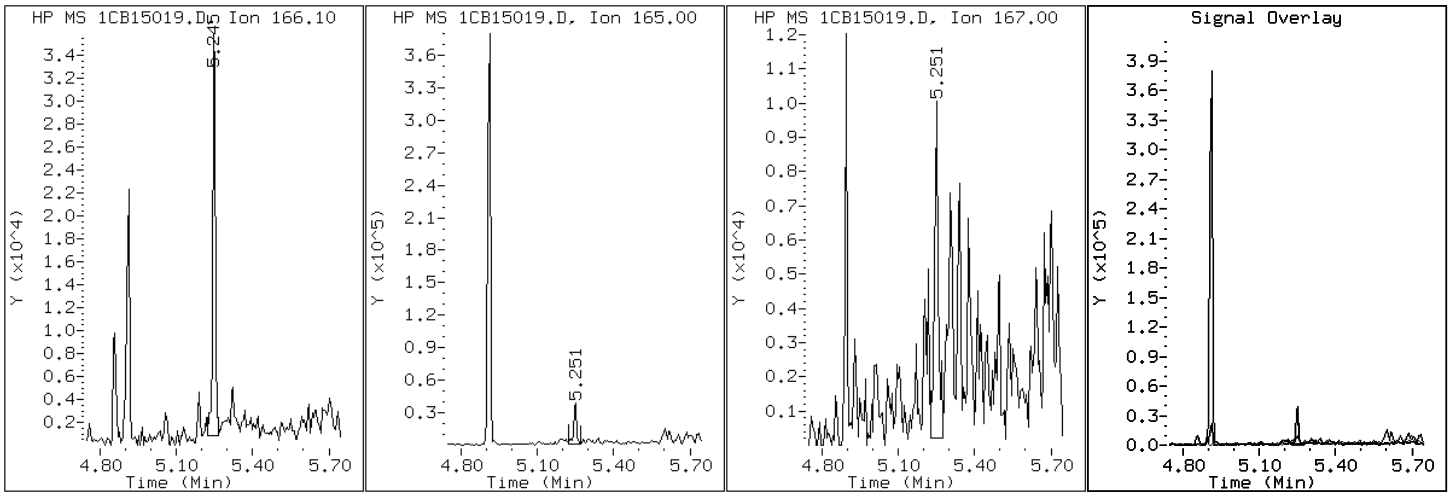
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

9 Fluorene



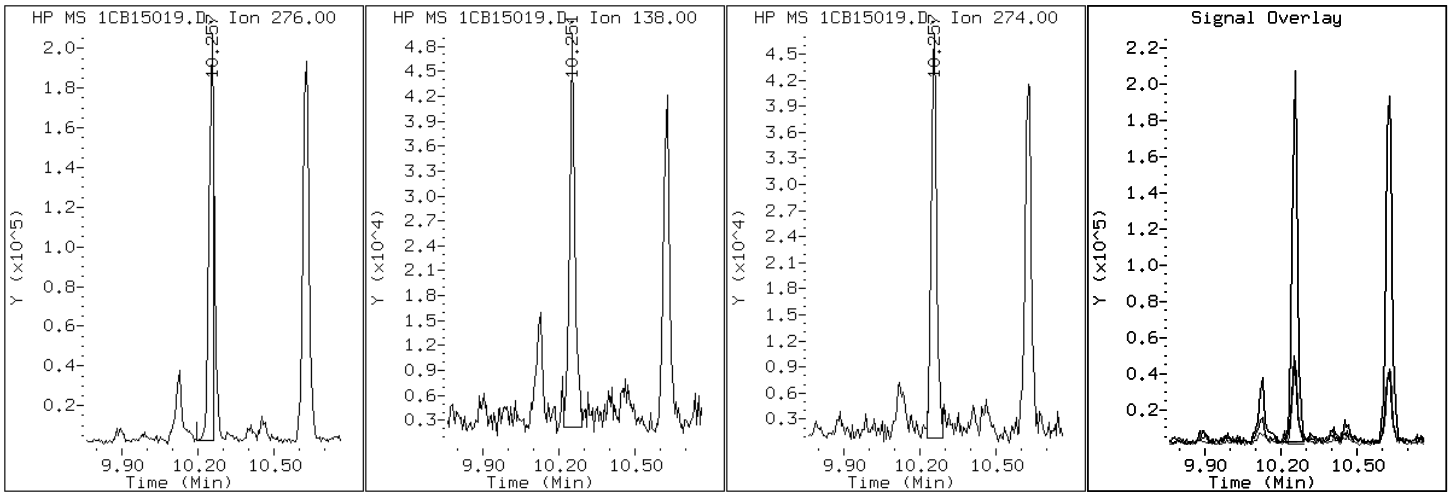
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

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



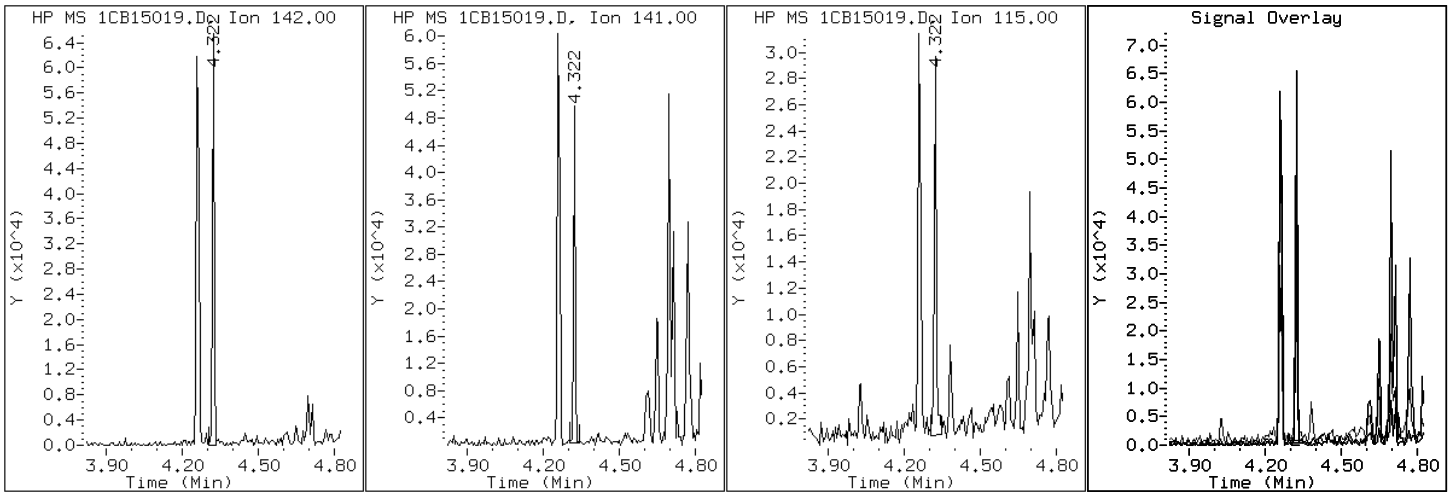
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

4 1-Methylnaphthalene



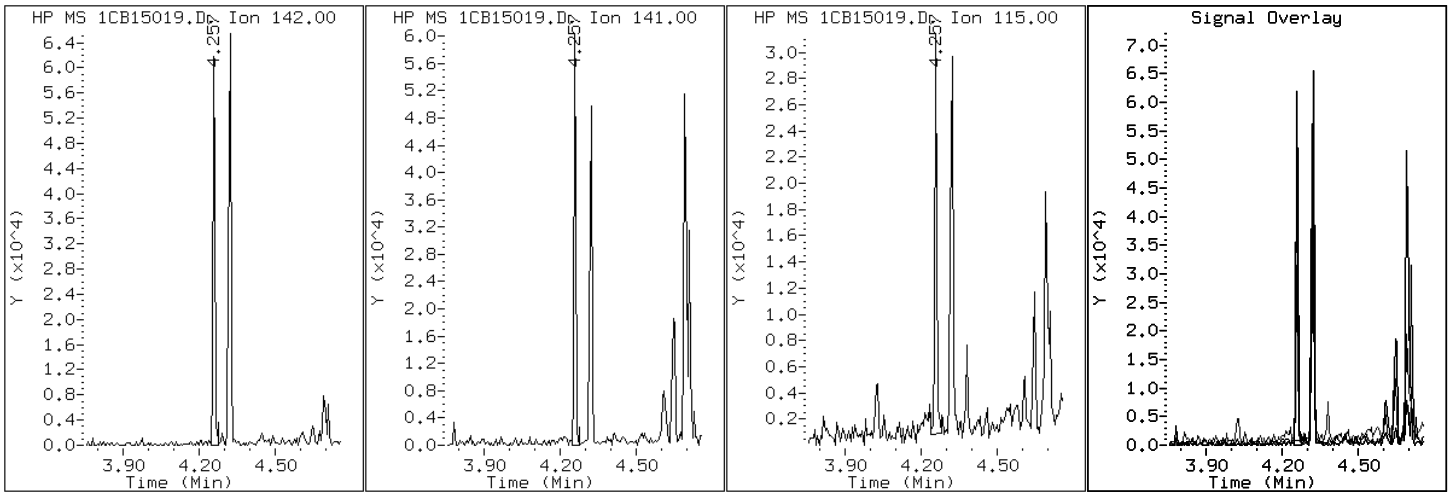
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

3 2-Methylnaphthalene



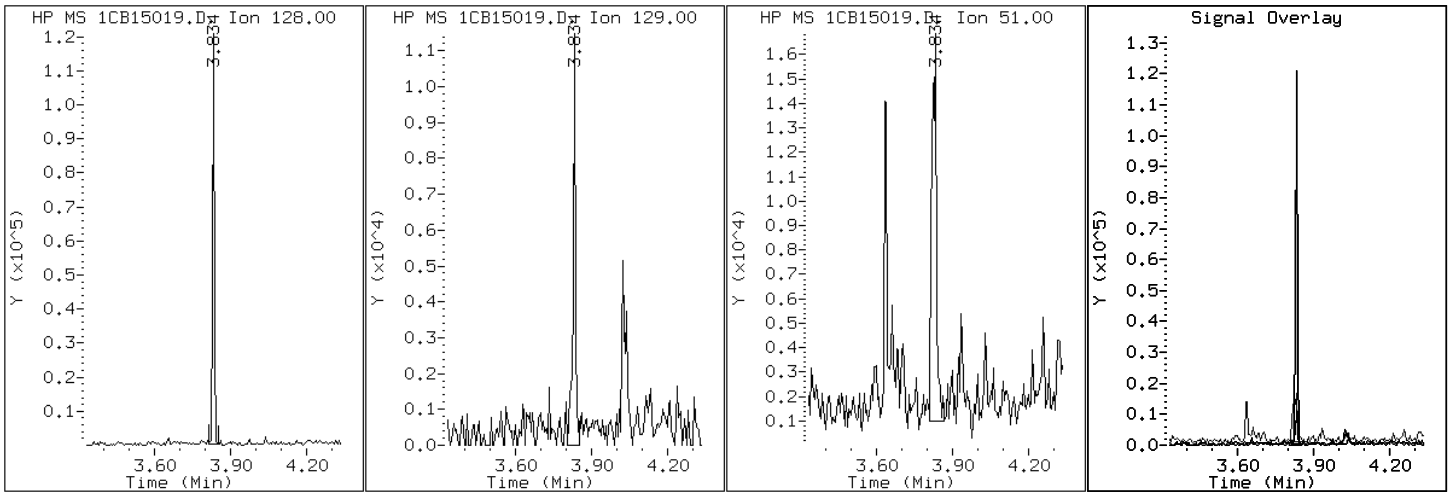
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

2 Naphthalene



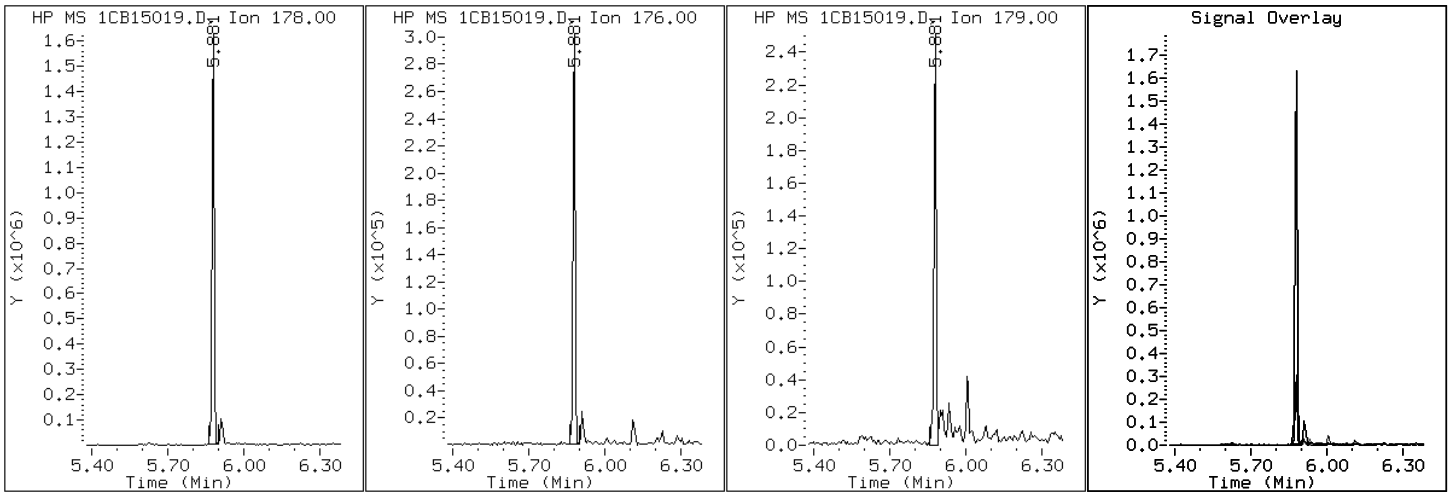
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

11 Phenanthrene



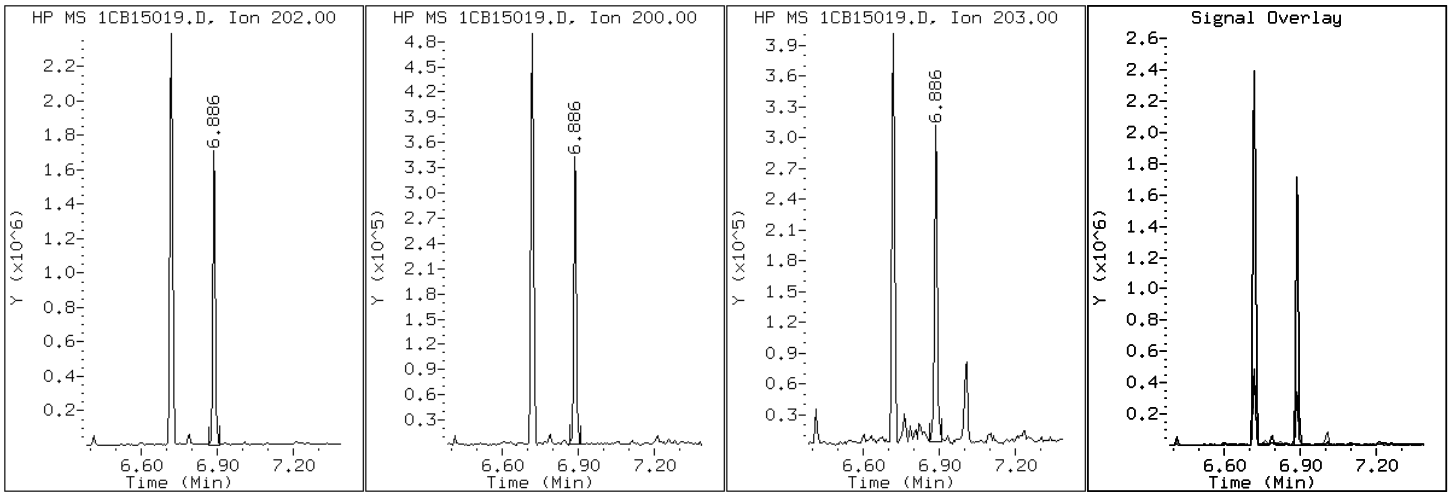
Data File: 1CB15019.D

Date: 15-FEB-2013 16:41

Client ID: CV0005G-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-11-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15019.D
Inj. Date and Time: 15-FEB-2013 16:41
Instrument ID: BSMC5973.i
Client ID: CV0005G-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

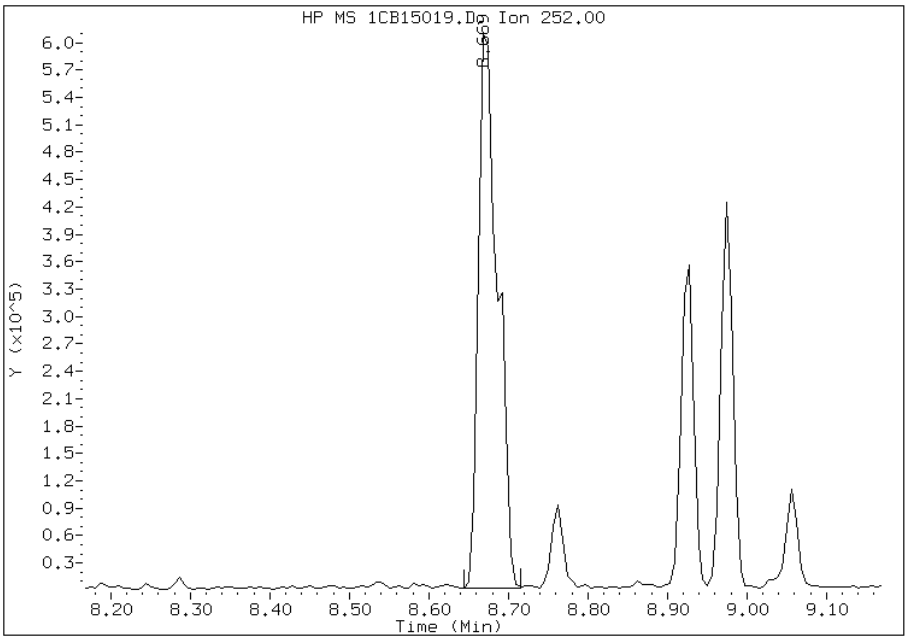
Processing Integration Results

RT: 8.67

Response: 1026533

Amount: 13

Conc: 1103



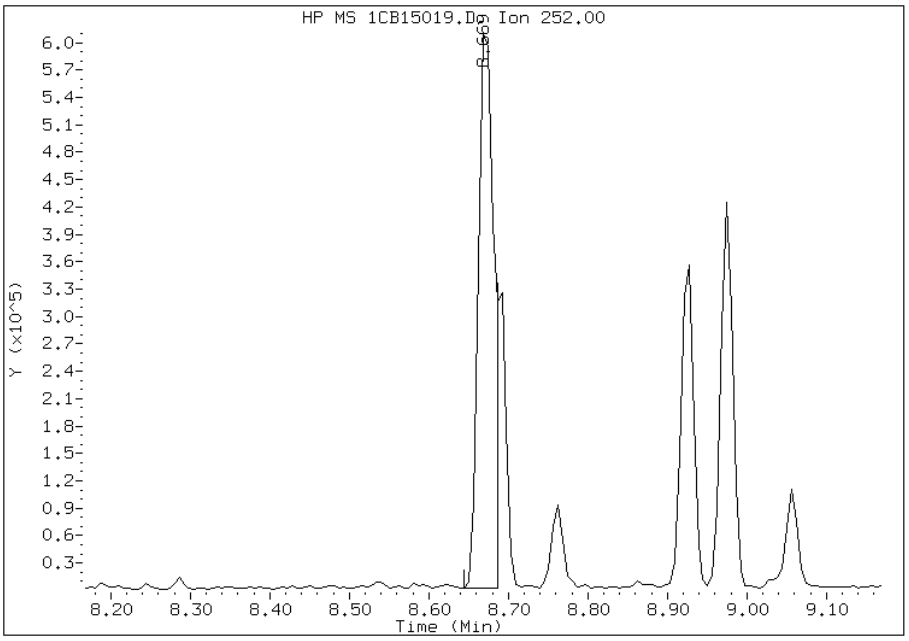
Manual Integration Results

RT: 8.67

Response: 834883

Amount: 11

Conc: 897



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:17
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15019.D
Inj. Date and Time: 15-FEB-2013 16:41
Instrument ID: BSMC5973.i
Client ID: CV0005G-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

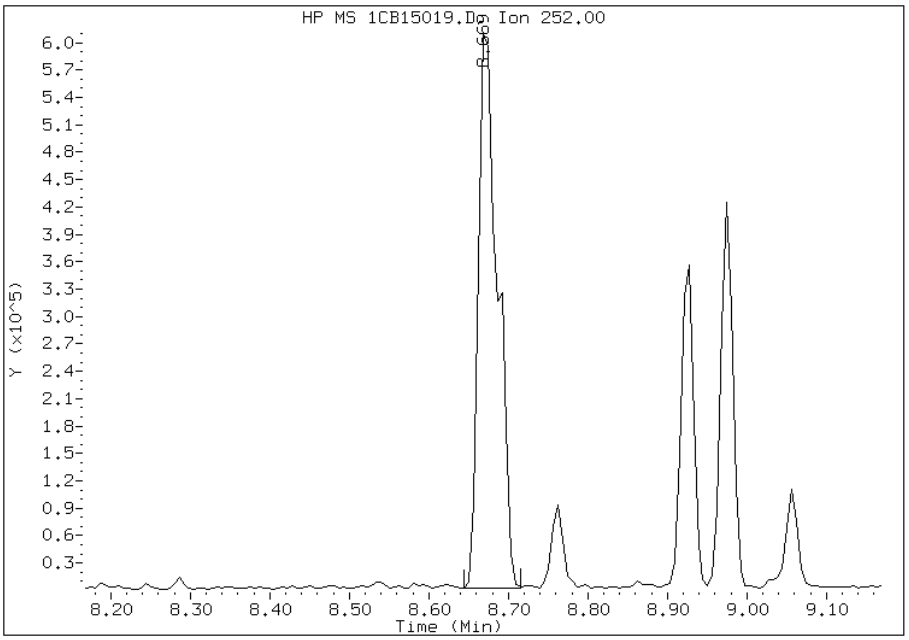
Processing Integration Results

RT: 8.67

Response: 1026533

Amount: 12

Conc: 1001



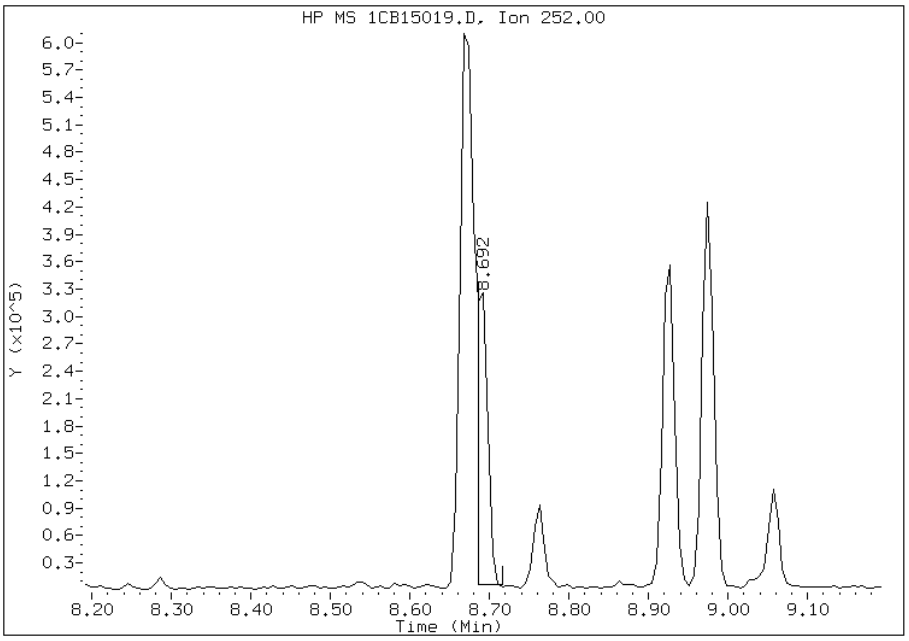
Manual Integration Results

RT: 8.69

Response: 295263

Amount: 3

Conc: 288



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15019.D
Inj. Date and Time: 15-FEB-2013 16:41
Instrument ID: BSMC5973.i
Client ID: CV0005G-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

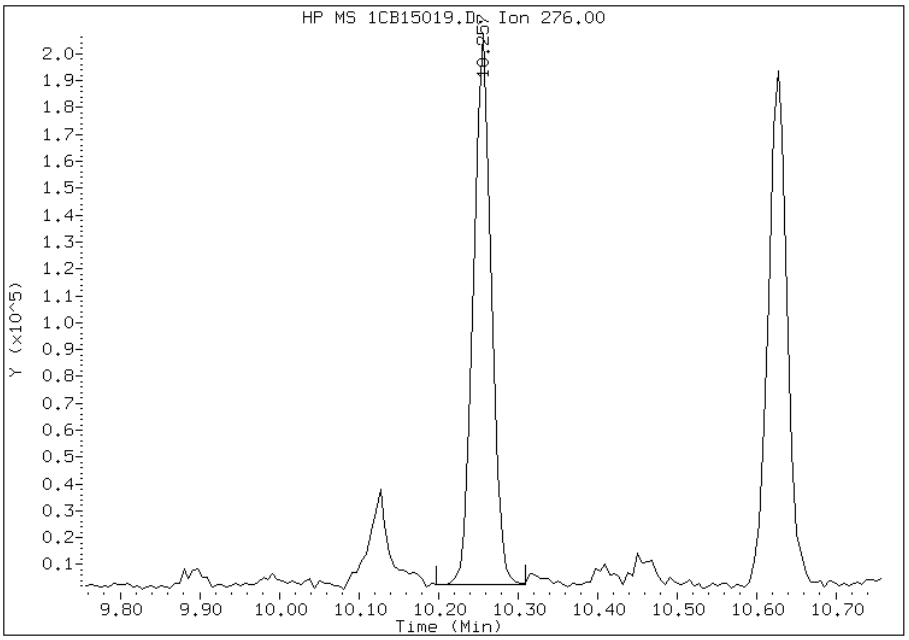
Processing Integration Results

RT: 10.26

Response: 318636

Amount: 4

Conc: 374



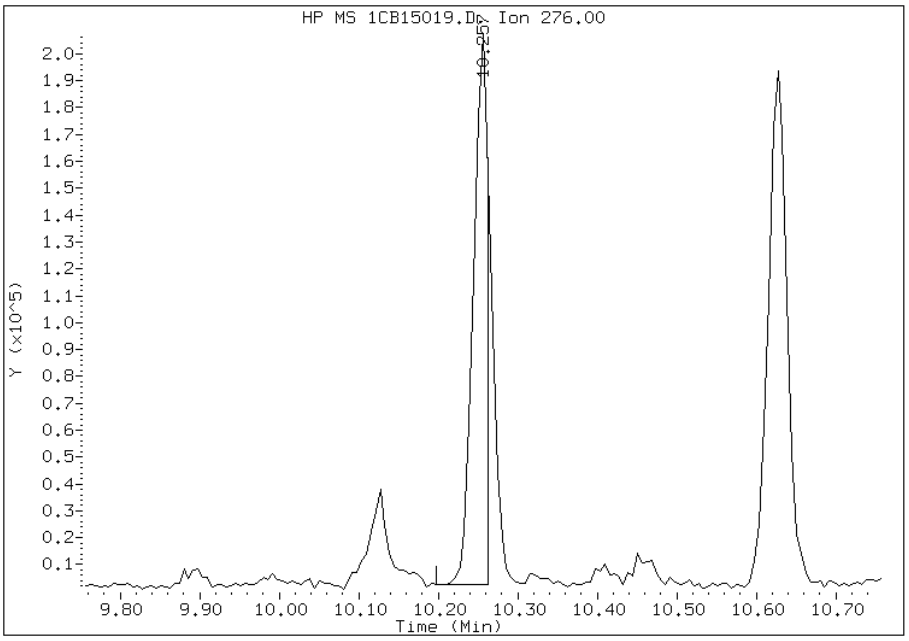
Manual Integration Results

RT: 10.26

Response: 260033

Amount: 4

Conc: 306



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005H-CS | Lab Sample ID: 680-87318-12

Matrix: Solid | Lab File ID: 1CB15020.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 11:30

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.11(g) | Date Analyzed: 02/15/2013 17:00

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

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

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

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	27	J	41	5.1
120-12-7	Anthracene	45		8.6	4.3
56-55-3	Benzo[a]anthracene	270		8.2	4.0
50-32-8	Benzo[a]pyrene	260		11	5.3
205-99-2	Benzo[b]fluoranthene	450		13	6.3
191-24-2	Benzo[g,h,i]perylene	180		21	4.5
207-08-9	Benzo[k]fluoranthene	130		8.2	3.7
218-01-9	Chrysene	280		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	51		21	4.2
206-44-0	Fluoranthene	470		21	4.1
86-73-7	Fluorene	13	J	21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	160		21	7.3
90-12-0	1-Methylnaphthalene	56		41	4.5
91-57-6	2-Methylnaphthalene	59		41	7.3
91-20-3	Naphthalene	53		41	4.5
85-01-8	Phenanthrene	210		8.2	4.0
129-00-0	Pyrene	440		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15020.D
Lab Smp Id: 680-87318-A-12-A Client Smp ID: CV0005H-CS
Inj Date : 15-FEB-2013 17:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-12-a
Misc Info : 680-87318-A-12-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	3.398	% 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	3.821	3.821	(1.000)	2465939	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1897768	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3439024	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	306310	6.07884	416.4571
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3478519	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3187847	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	50484	0.77259	52.9293
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	36553	0.86031	58.9390
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	31370	0.81180	55.6158
5 Acenaphthylene	152	4.821	4.821	(0.982)	29775	0.39436	27.0176
9 Fluorene	166	5.245	5.245	(1.068)	11578	0.19047	13.0492
11 Phenanthrene	178	5.880	5.880	(1.003)	312054	3.03991	208.2618
12 Anthracene	178	5.909	5.910	(1.008)	61086	0.66048	45.2493
13 Carbazole	167	6.021	6.015	(1.027)	43178	0.53747	36.8216

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	686746	6.84652	469.0507
16 Pyrene	202	6.886	6.886	(0.882)	590627	6.37780	436.9389
17 Benzo(a)anthracene	228	7.803	7.804	(0.999)	373081	3.88930	266.4533
19 Chrysene	228	7.827	7.833	(1.002)	398090	4.01765	275.2461
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	508605	6.50759	445.8308(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	163626	1.90038	130.1939(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	287540	3.86637	264.8825
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	168391	2.35742	161.5051(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	50182	0.74498	51.0382
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	193654	2.66892	182.8460

QC Flag Legend

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

Data File: 1CB15020.D

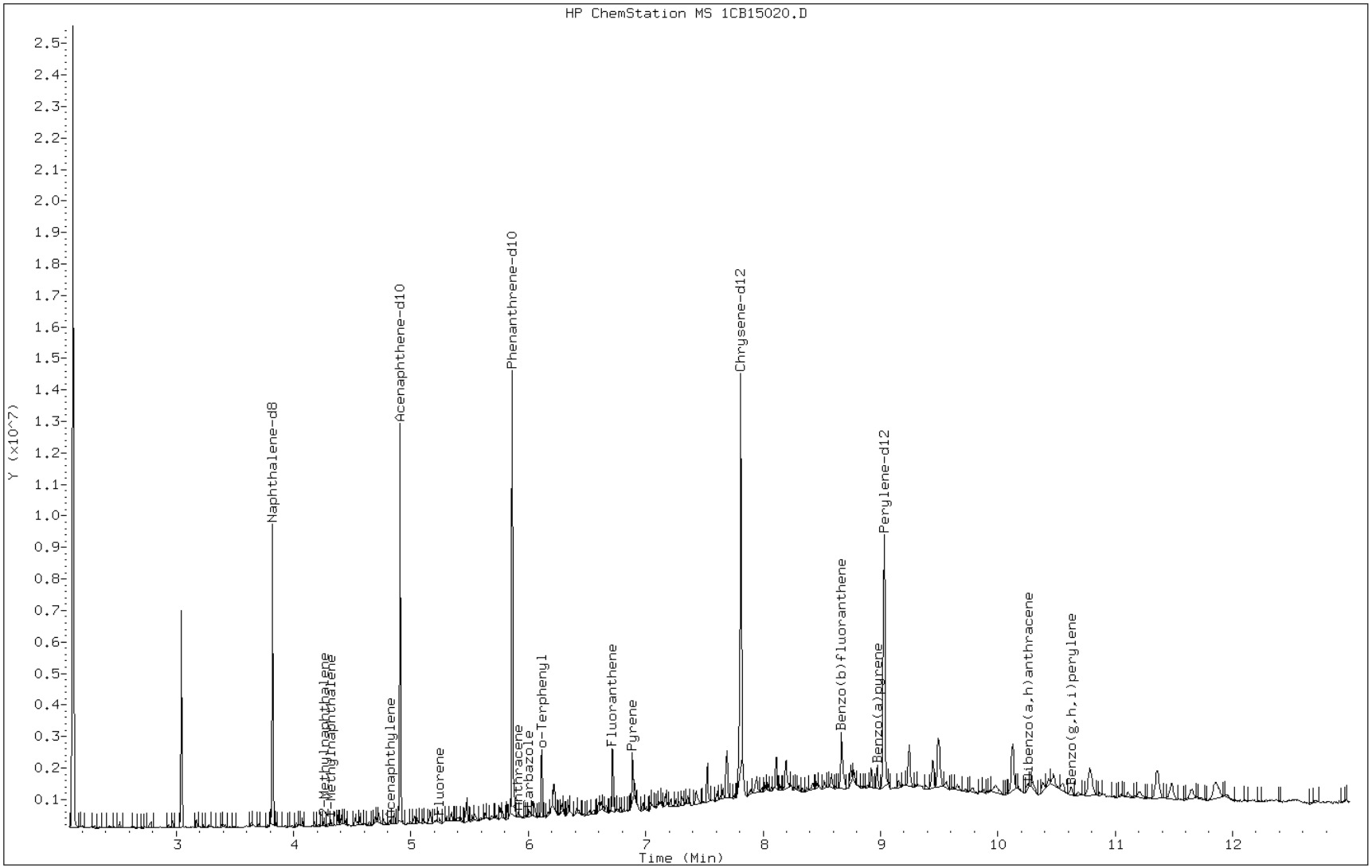
Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a

Operator: SCC



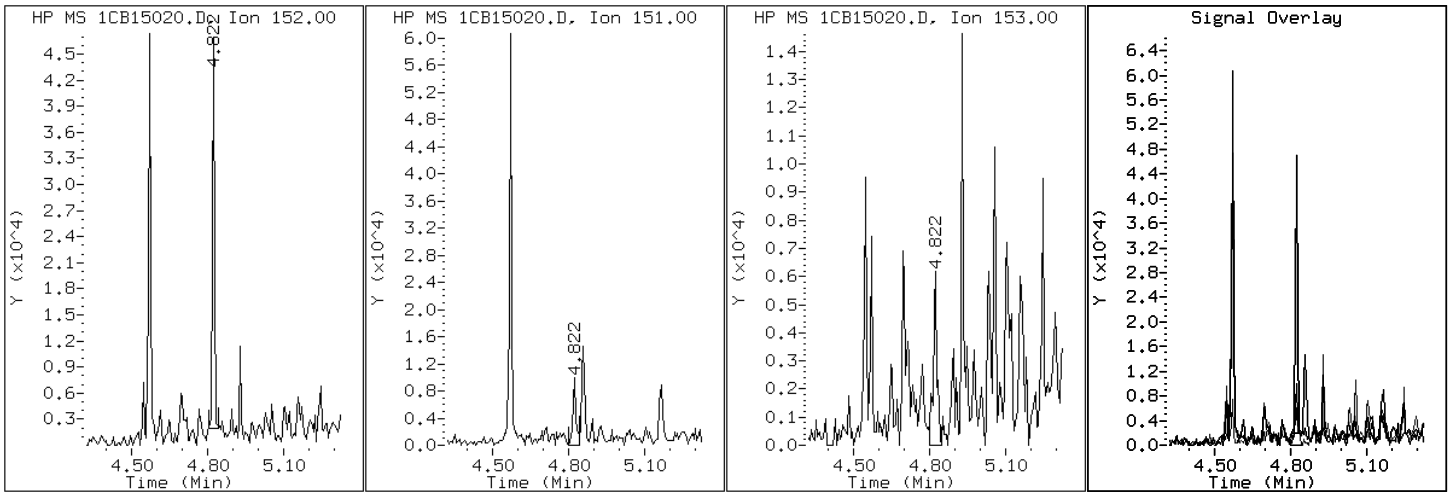
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

5 Acenaphthylene



Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

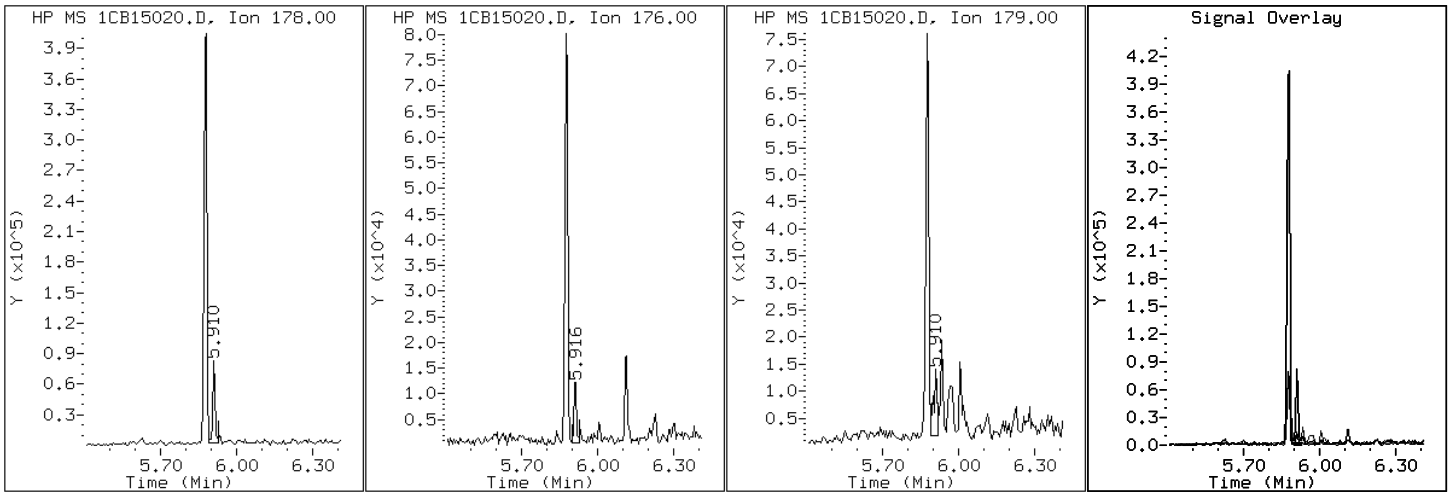
Client ID: CV0005H-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a

Operator: SCC

12 Anthracene



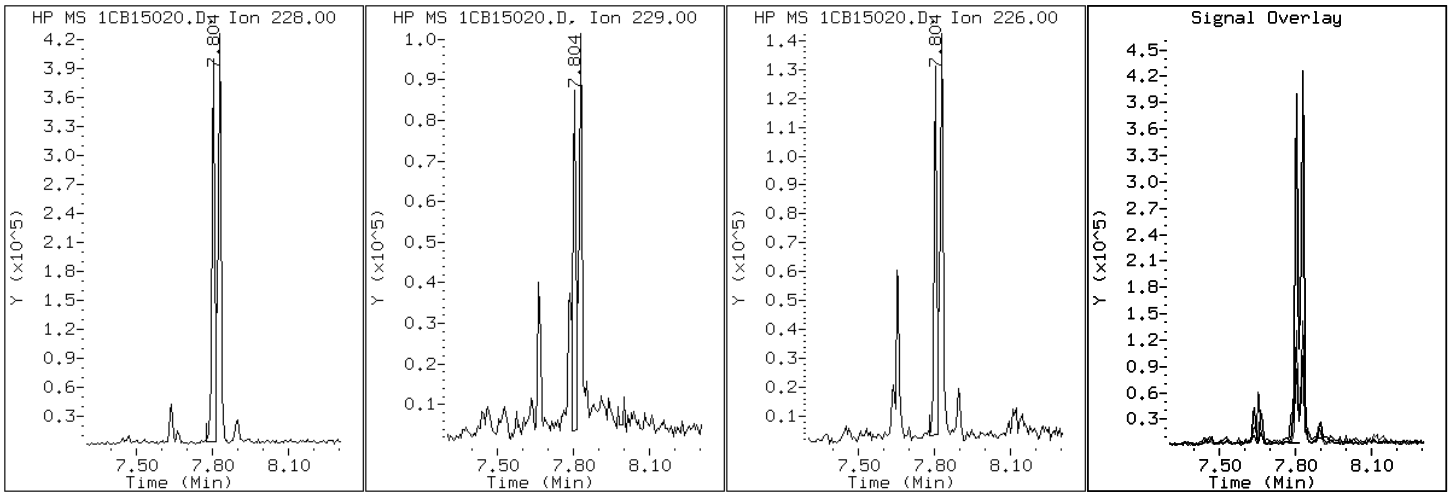
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

17 Benzo(a)anthracene



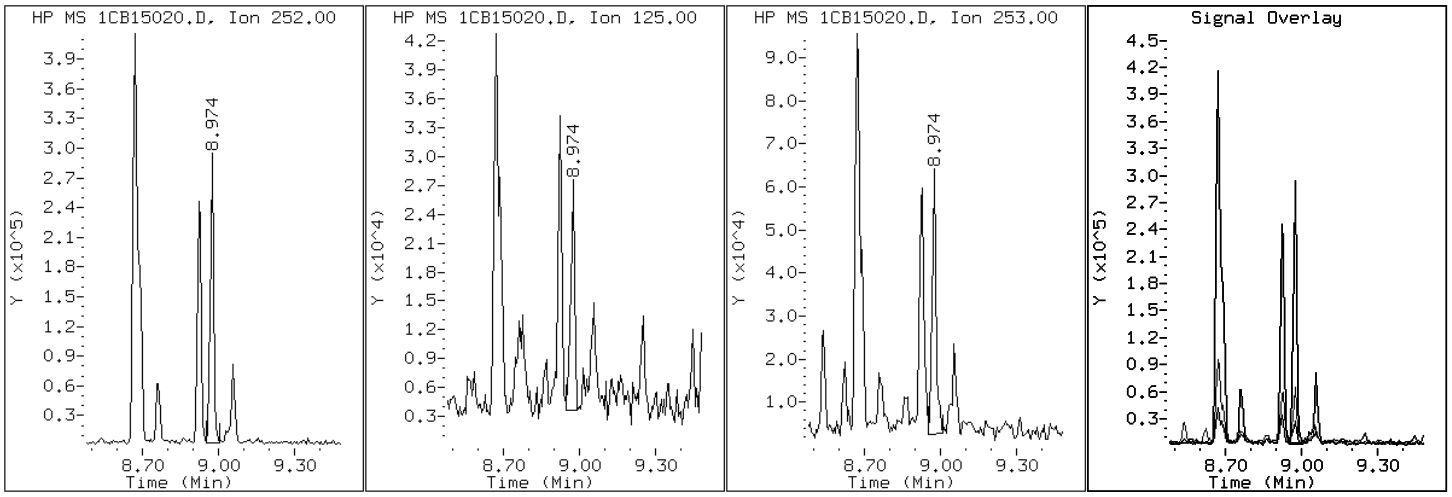
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

22 Benzo(a)pyrene



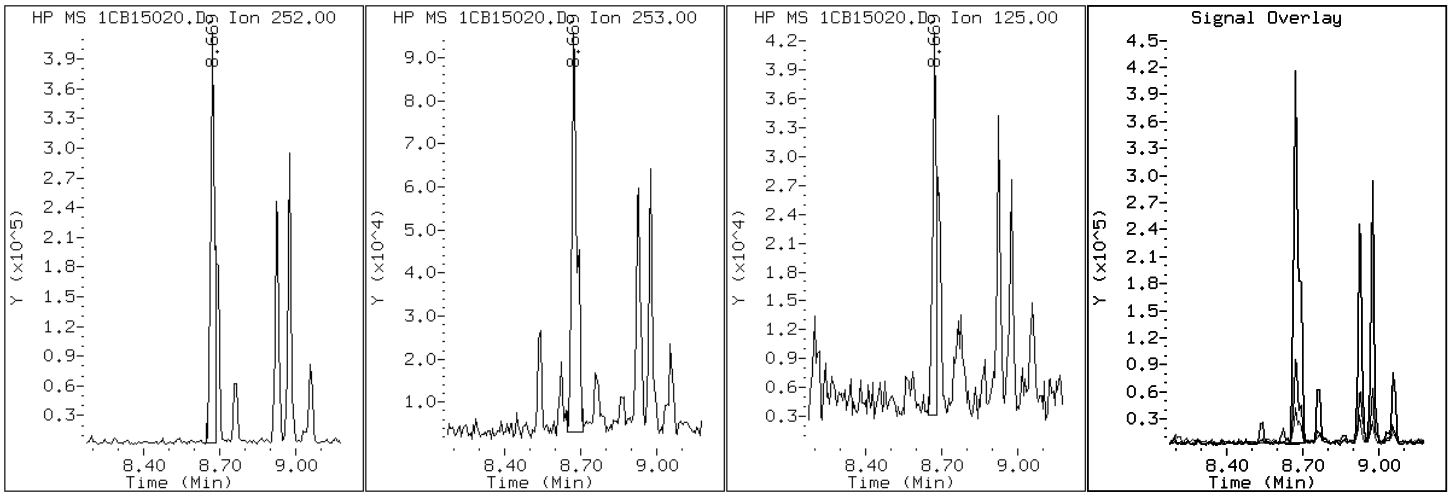
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

20 Benzo(b)fluoranthene



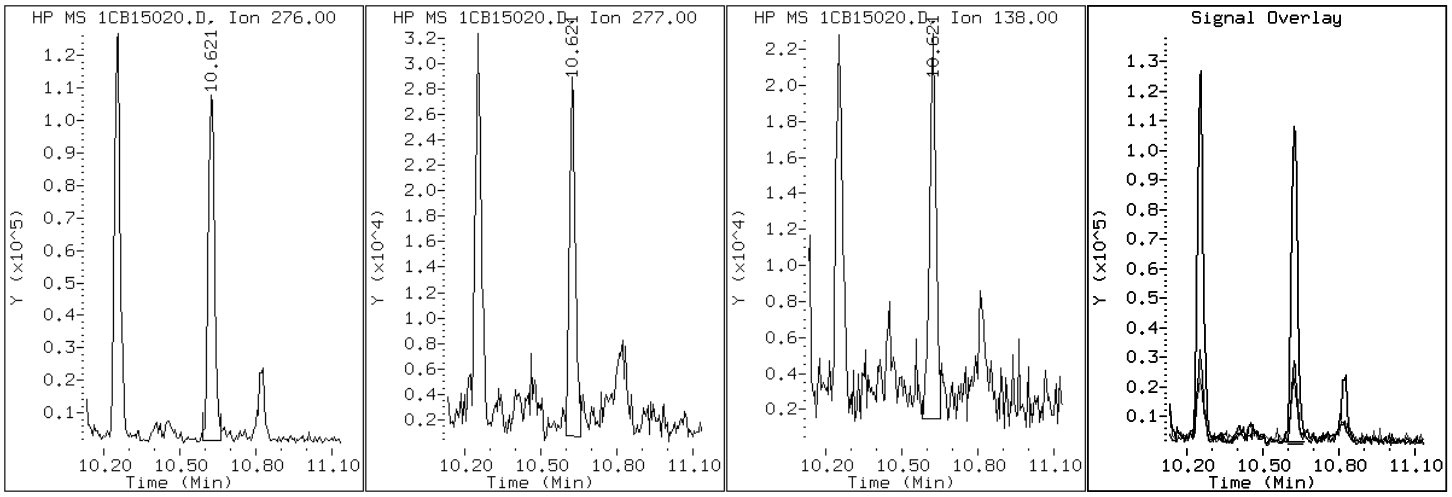
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

26 Benzo(g,h,i)perylene



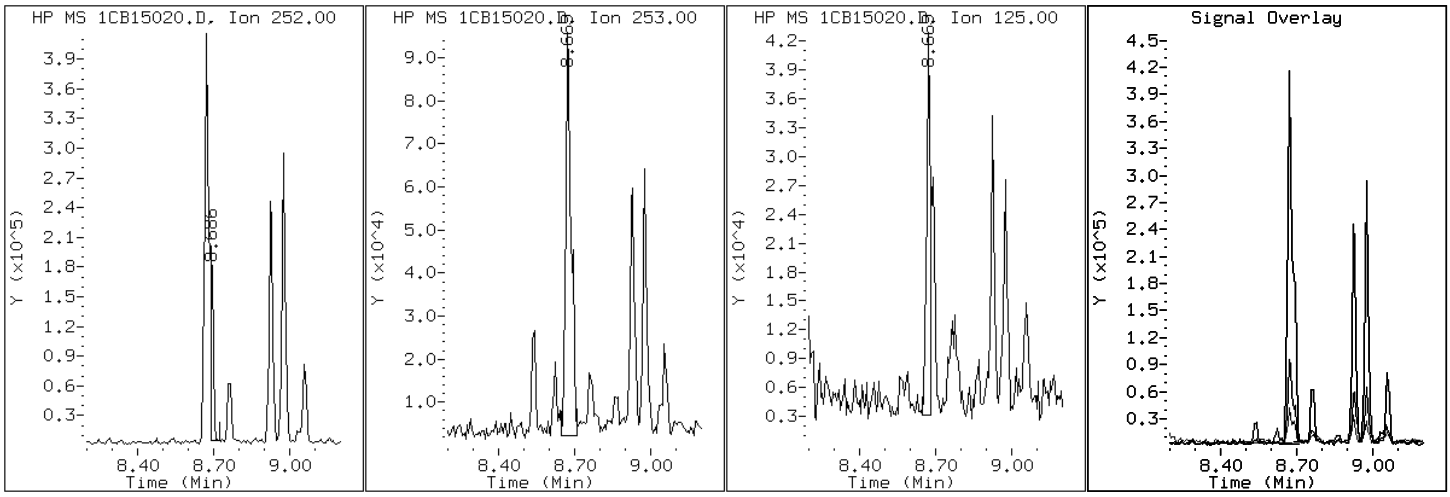
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

21 Benzo(k)fluoranthene



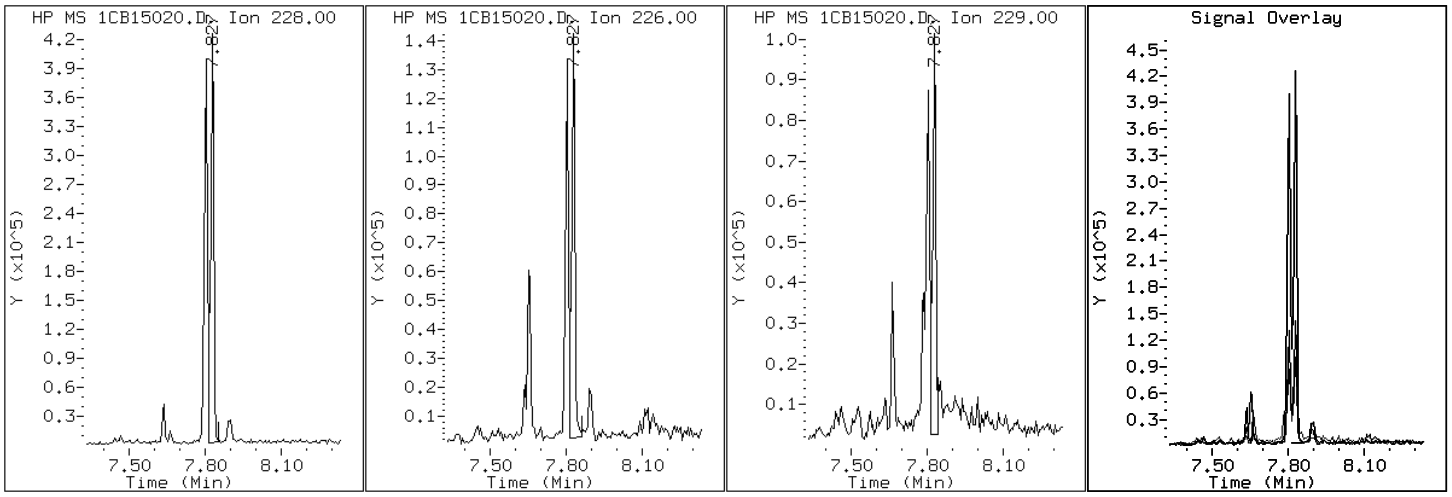
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

19 Chrysene



Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

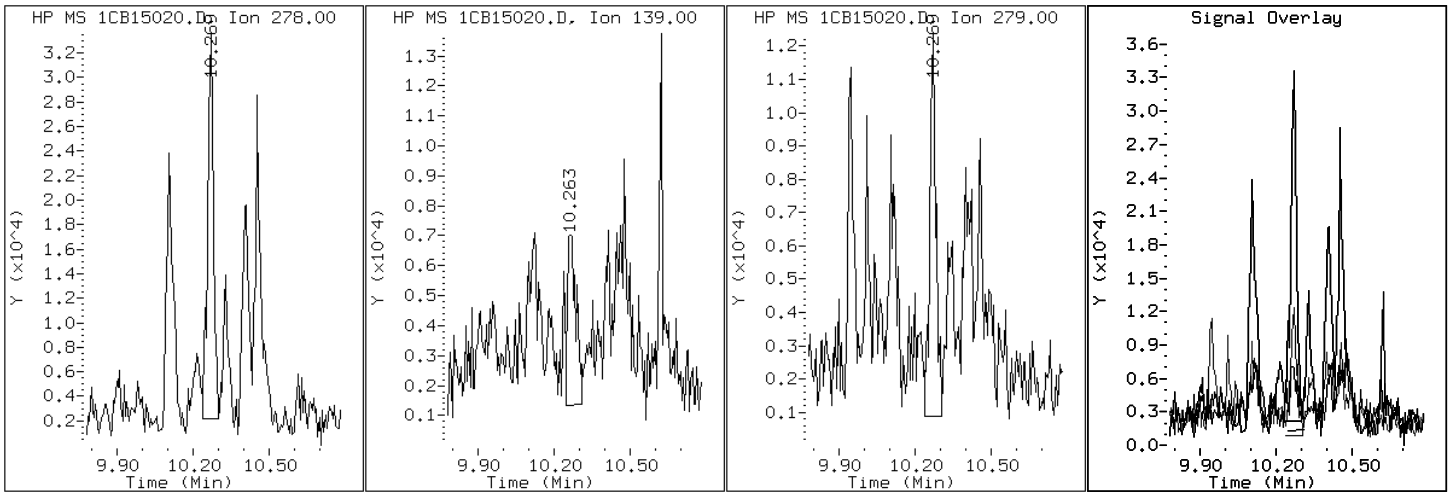
Client ID: CV0005H-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a

Operator: SCC

25 Dibenzo(a,h)anthracene



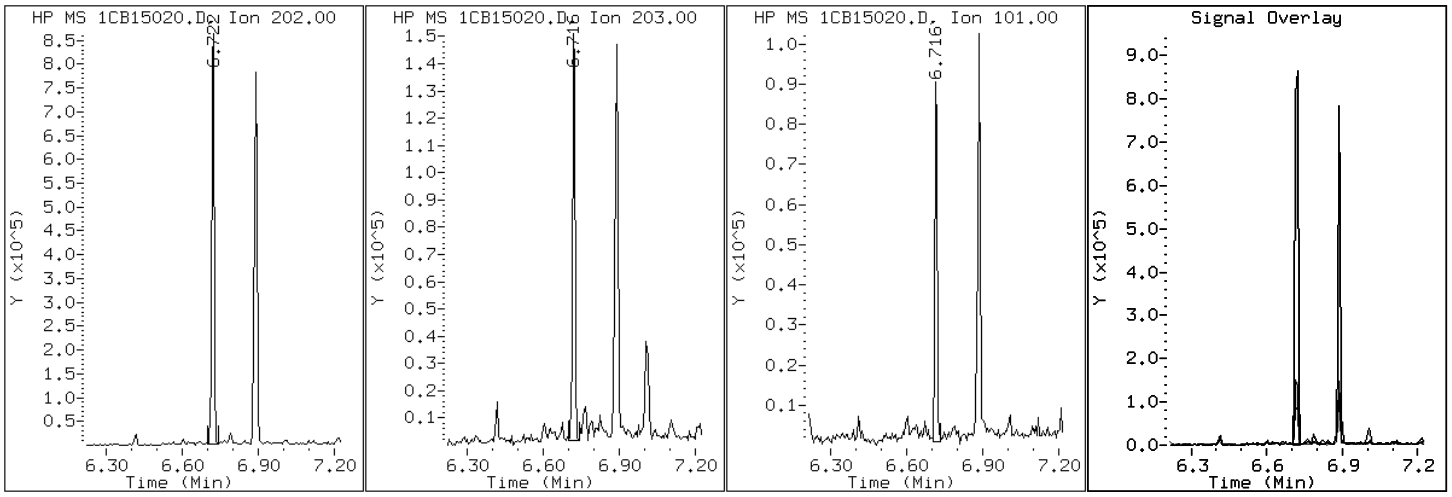
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

15 Fluoranthene



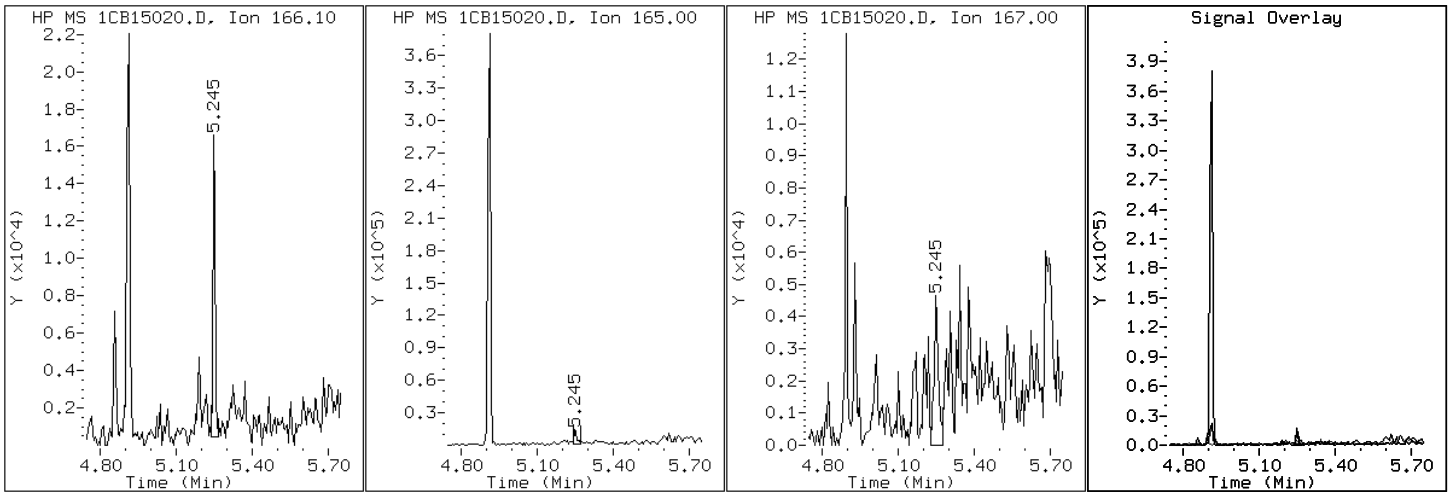
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

9 Fluorene



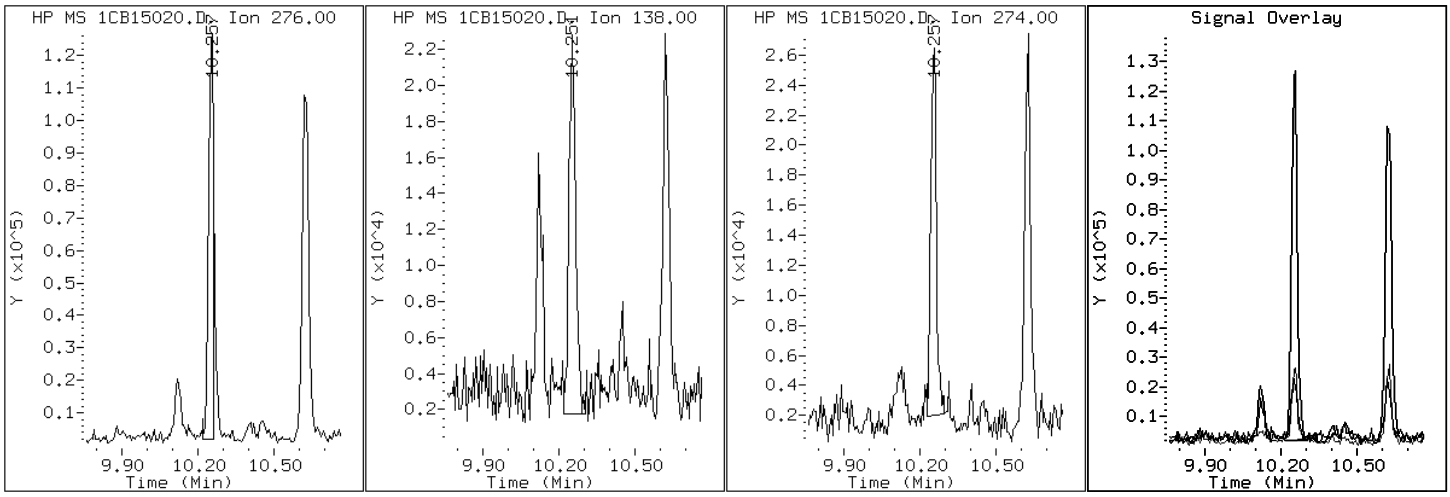
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

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



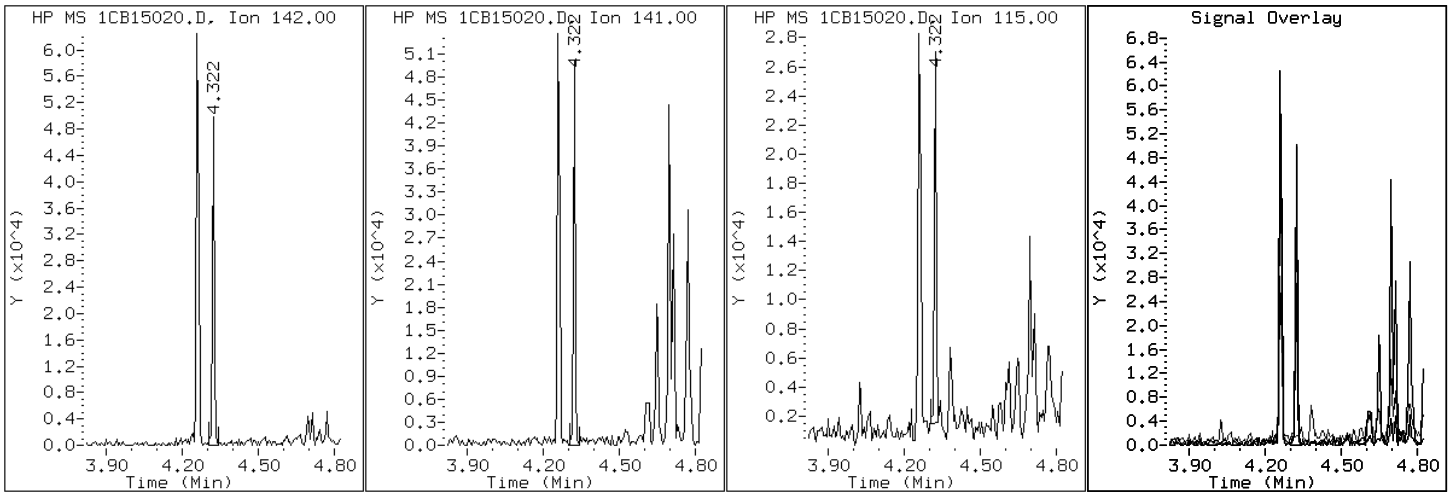
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

4 1-Methylnaphthalene



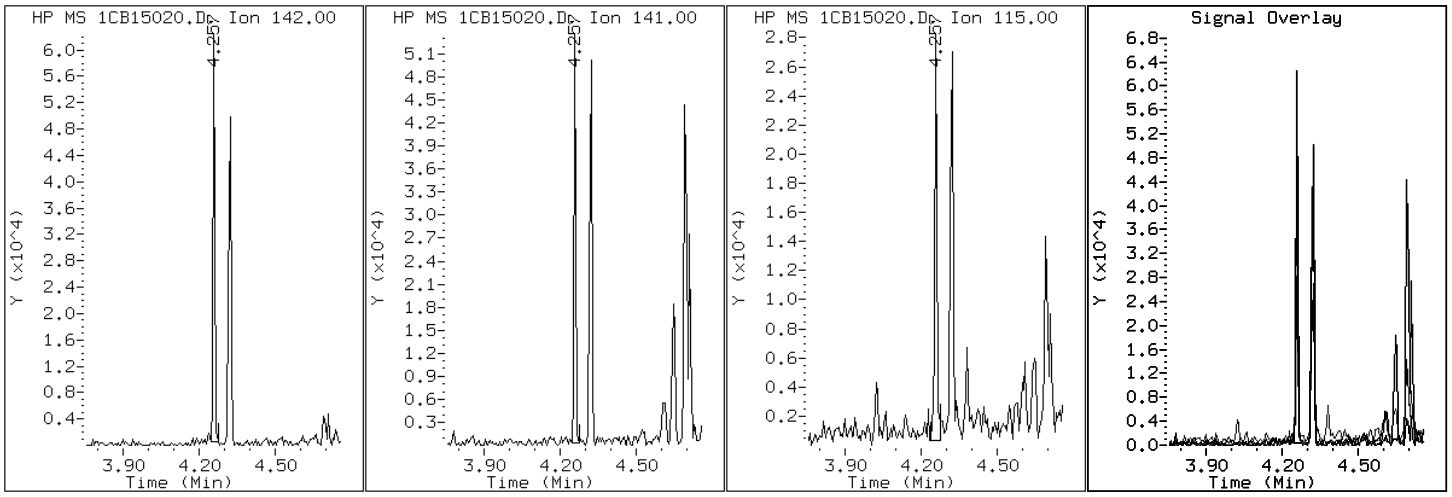
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

3 2-Methylnaphthalene



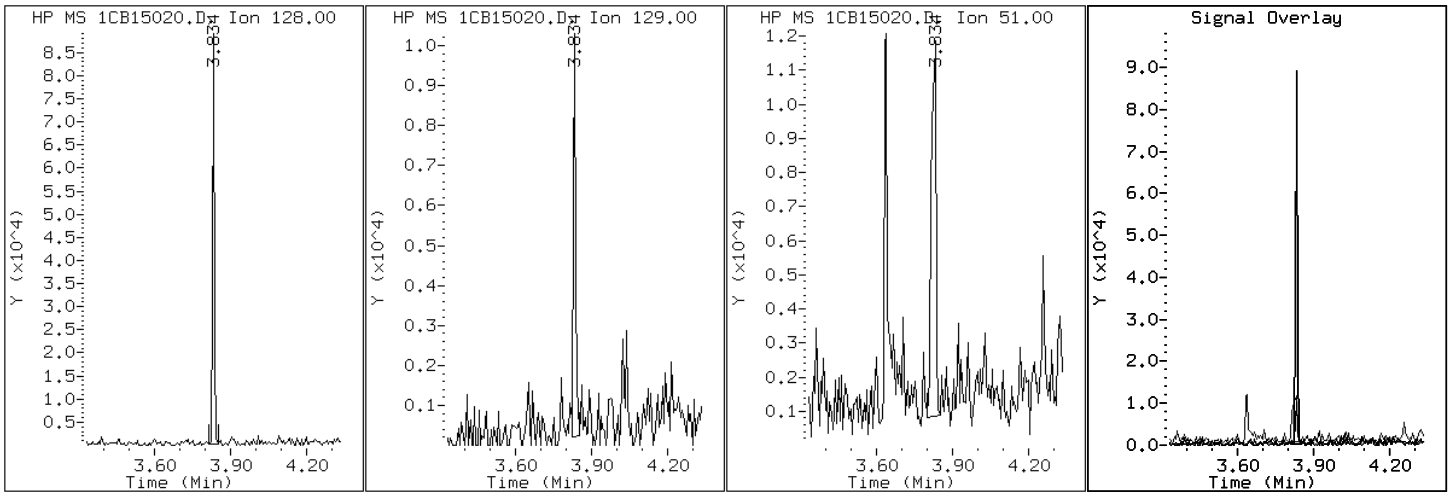
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

2 Naphthalene



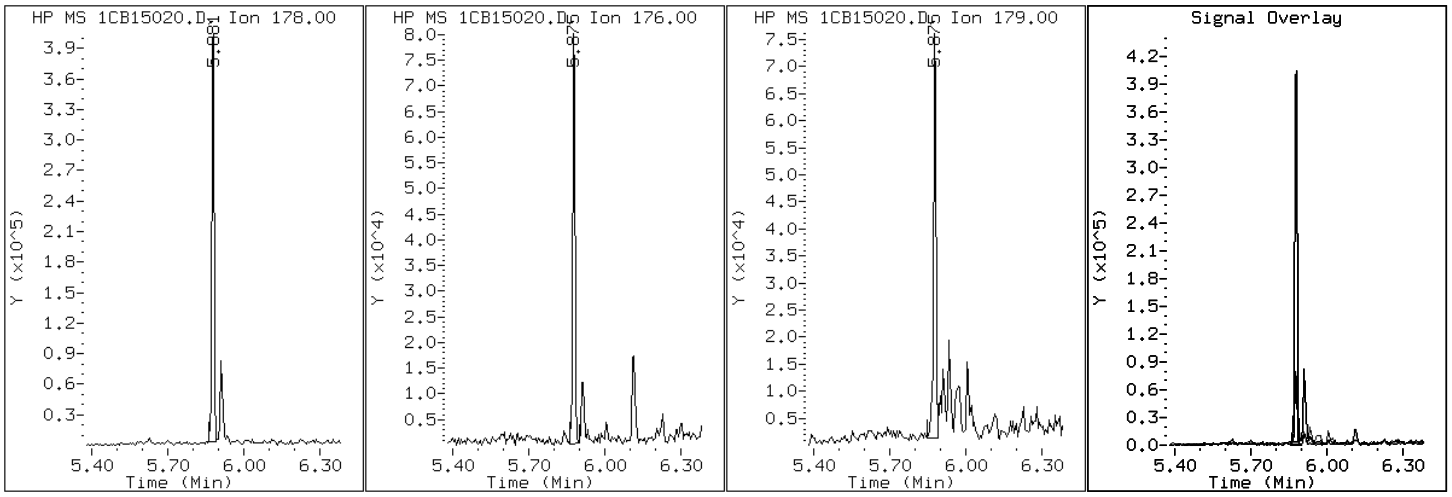
Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

Client ID: CV0005H-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a Operator: SCC

11 Phenanthrene



Data File: 1CB15020.D

Date: 15-FEB-2013 17:00

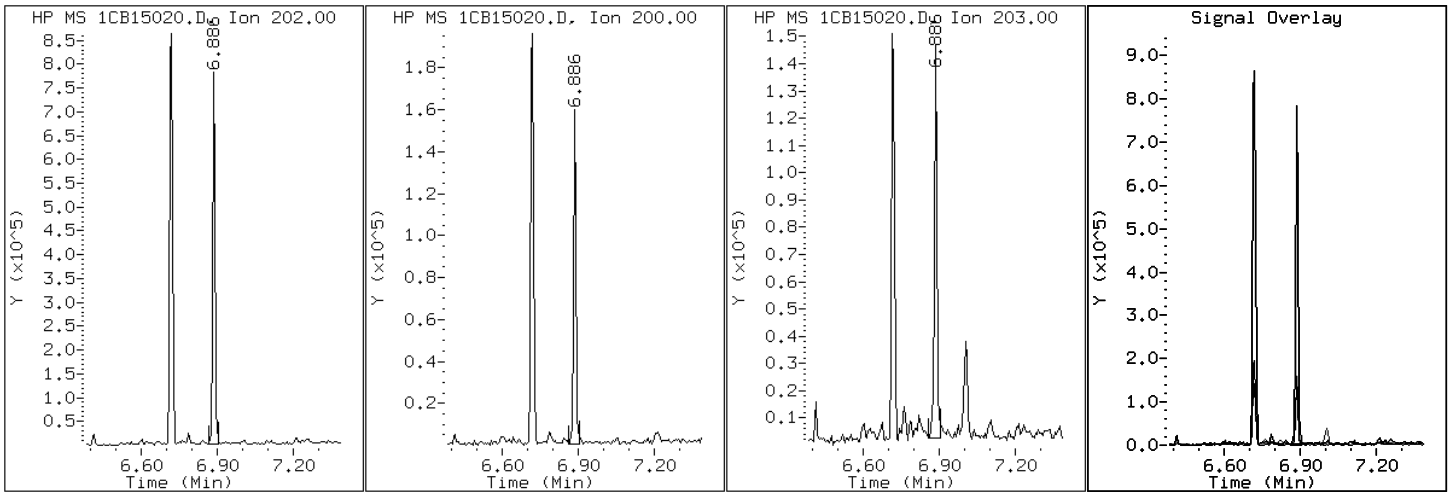
Client ID: CV0005H-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-12-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15020.D
Inj. Date and Time: 15-FEB-2013 17:00
Instrument ID: BSMC5973.i
Client ID: CV0005H-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

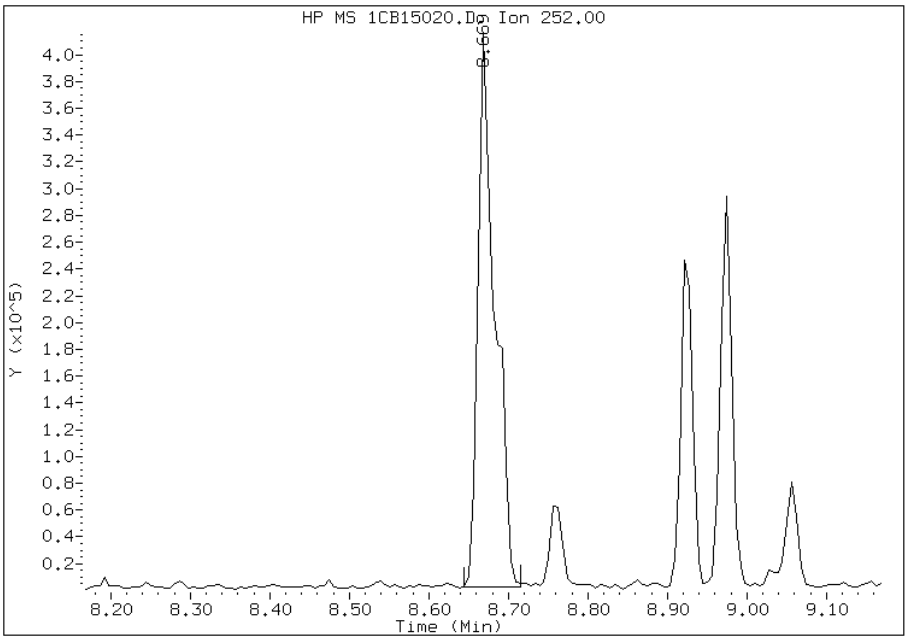
Processing Integration Results

RT: 8.67

Response: 612283

Amount: 8

Conc: 537



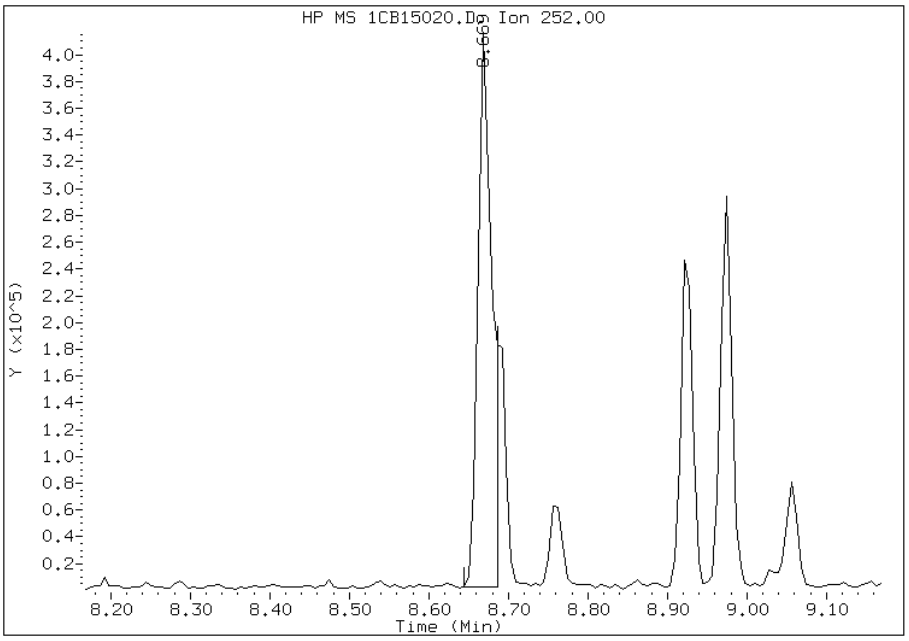
Manual Integration Results

RT: 8.67

Response: 508605

Amount: 7

Conc: 446



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:18
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15020.D
Inj. Date and Time: 15-FEB-2013 17:00
Instrument ID: BSMC5973.i
Client ID: CV0005H-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

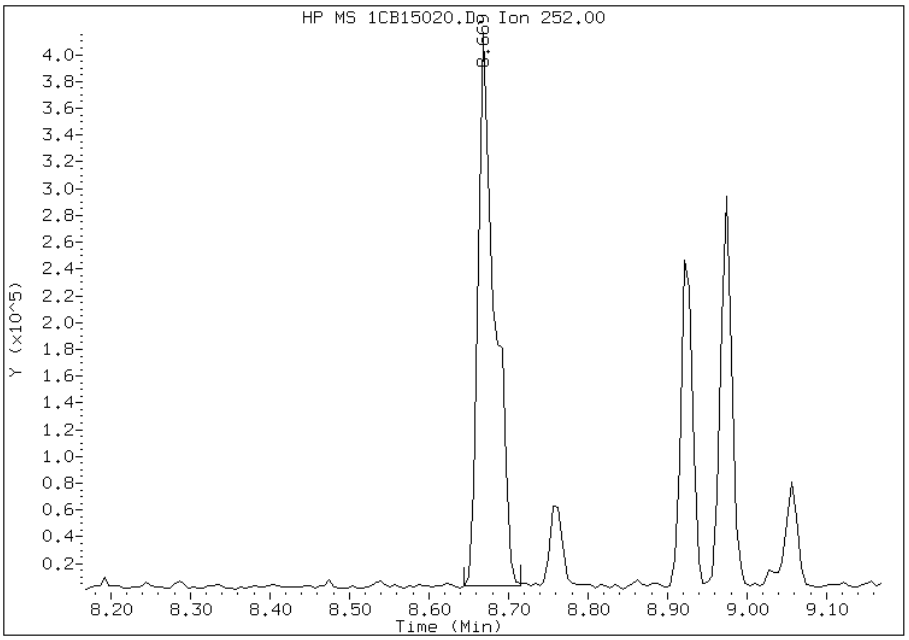
Processing Integration Results

RT: 8.67

Response: 609719

Amount: 7

Conc: 485



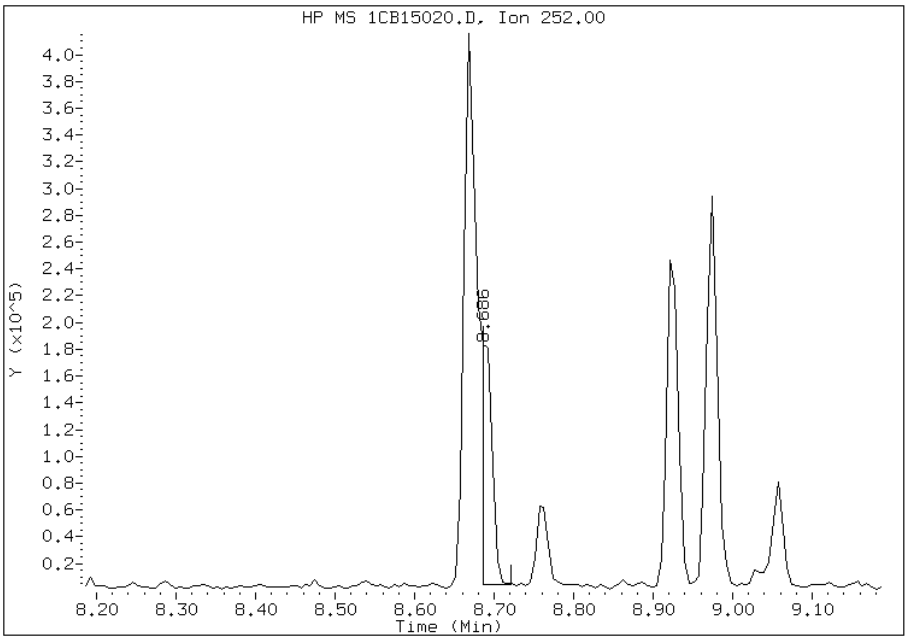
Manual Integration Results

RT: 8.69

Response: 163626

Amount: 2

Conc: 130



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15020.D
Inj. Date and Time: 15-FEB-2013 17:00
Instrument ID: BSMC5973.i
Client ID: CV0005H-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

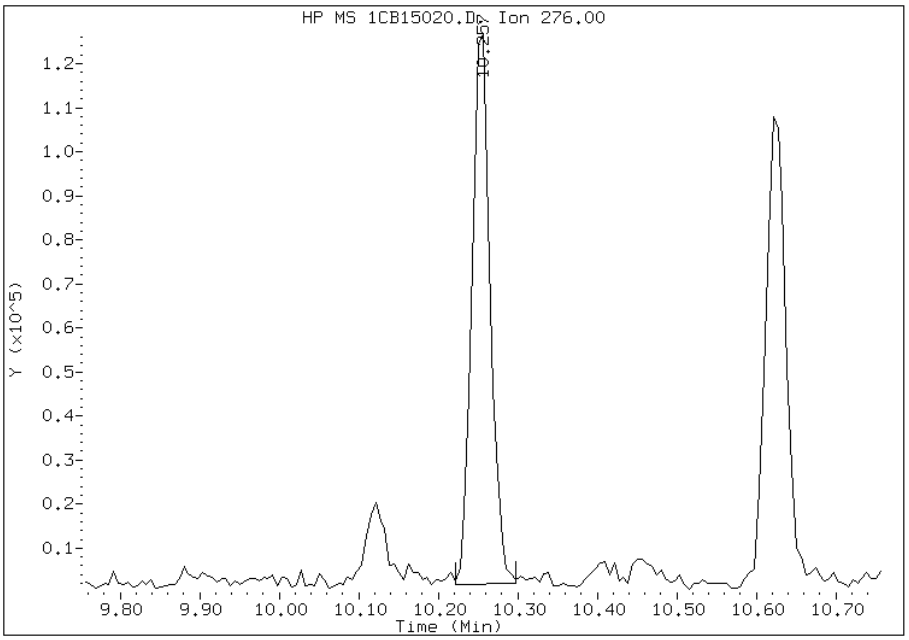
Processing Integration Results

RT: 10.26

Response: 198636

Amount: 3

Conc: 191



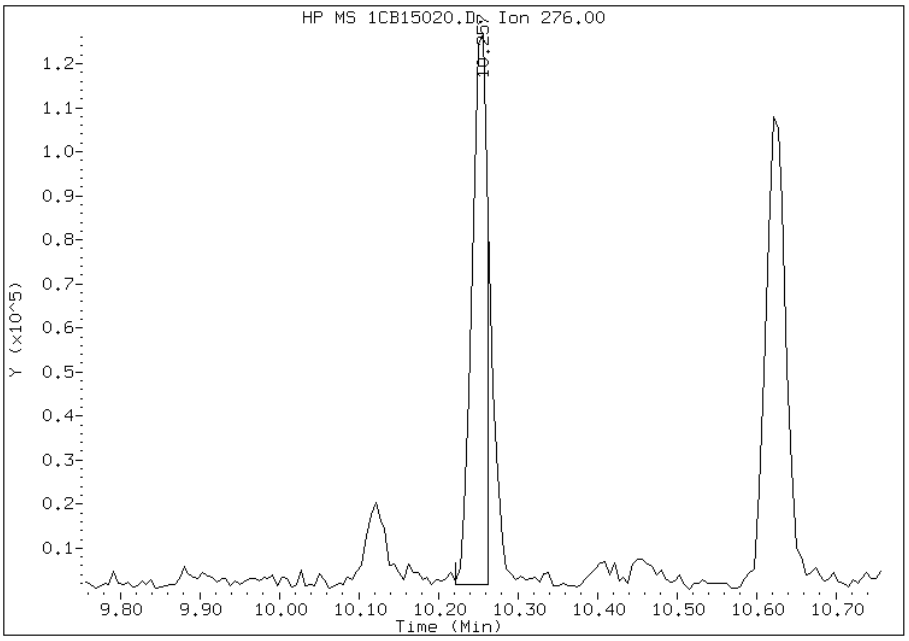
Manual Integration Results

RT: 10.26

Response: 168391

Amount: 2

Conc: 162



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005I-CS | Lab Sample ID: 680-87318-13

Matrix: Solid | Lab File ID: 1CB15021.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 11:53

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.07(g) | Date Analyzed: 02/15/2013 17:18

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

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

% Moisture: 4.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	63		42	5.2
120-12-7	Anthracene	68		8.7	4.4
56-55-3	Benzo[a]anthracene	400		8.3	4.1
50-32-8	Benzo[a]pyrene	460		11	5.4
205-99-2	Benzo[b]fluoranthene	730		13	6.3
191-24-2	Benzo[g,h,i]perylene	320		21	4.6
207-08-9	Benzo[k]fluoranthene	260		8.3	3.7
218-01-9	Chrysene	440		9.4	4.7
53-70-3	Dibenz(a,h)anthracene	90		21	4.3
206-44-0	Fluoranthene	750		21	4.2
86-73-7	Fluorene	24		21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	240		21	7.4
90-12-0	1-Methylnaphthalene	120		42	4.6
91-57-6	2-Methylnaphthalene	130		42	7.4
91-20-3	Naphthalene	100		42	4.6
85-01-8	Phenanthrene	360		8.3	4.1
129-00-0	Pyrene	710		21	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	67		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15021.D
Lab Smp Id: 680-87318-A-13-A Client Smp ID: CV0005I-CS
Inj Date : 15-FEB-2013 17:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-13-a
Misc Info : 680-87318-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	4.358	% 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	3.821	3.821	(1.000)	2411267	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1846724	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3270768	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	322831	6.73628	467.3689
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3343804	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3011218	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	93918	1.46987	101.9808
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	79858	1.92214	133.3599
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	65263	1.72718	119.8333
5 Acenaphthylene	152	4.821	4.821	(0.982)	66503	0.90517	62.8012
9 Fluorene	166	5.251	5.245	(1.069)	20583	0.34798	24.1429
11 Phenanthrene	178	5.874	5.880	(1.002)	499684	5.11813	355.1001
12 Anthracene	178	5.909	5.910	(1.008)	85765	0.97503	67.6481
13 Carbazole	167	6.015	6.015	(1.026)	65387	0.85579	59.3754

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	1024508	10.7393	745.0999
16 Pyrene	202	6.886	6.886	(0.881)	916443	10.2948	714.2602
17 Benzo(a)anthracene	228	7.803	7.804	(0.998)	533679	5.78765	401.5519
19 Chrysene	228	7.833	7.833	(1.002)	609271	6.39668	443.8069
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	779976	10.5652	733.0203(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	302311	3.71705	257.8919(M)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	462738	6.58712	457.0204
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	236128	3.49962	242.8064(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	82505	1.29668	89.9648
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	318338	4.64465	322.2499

QC Flag Legend

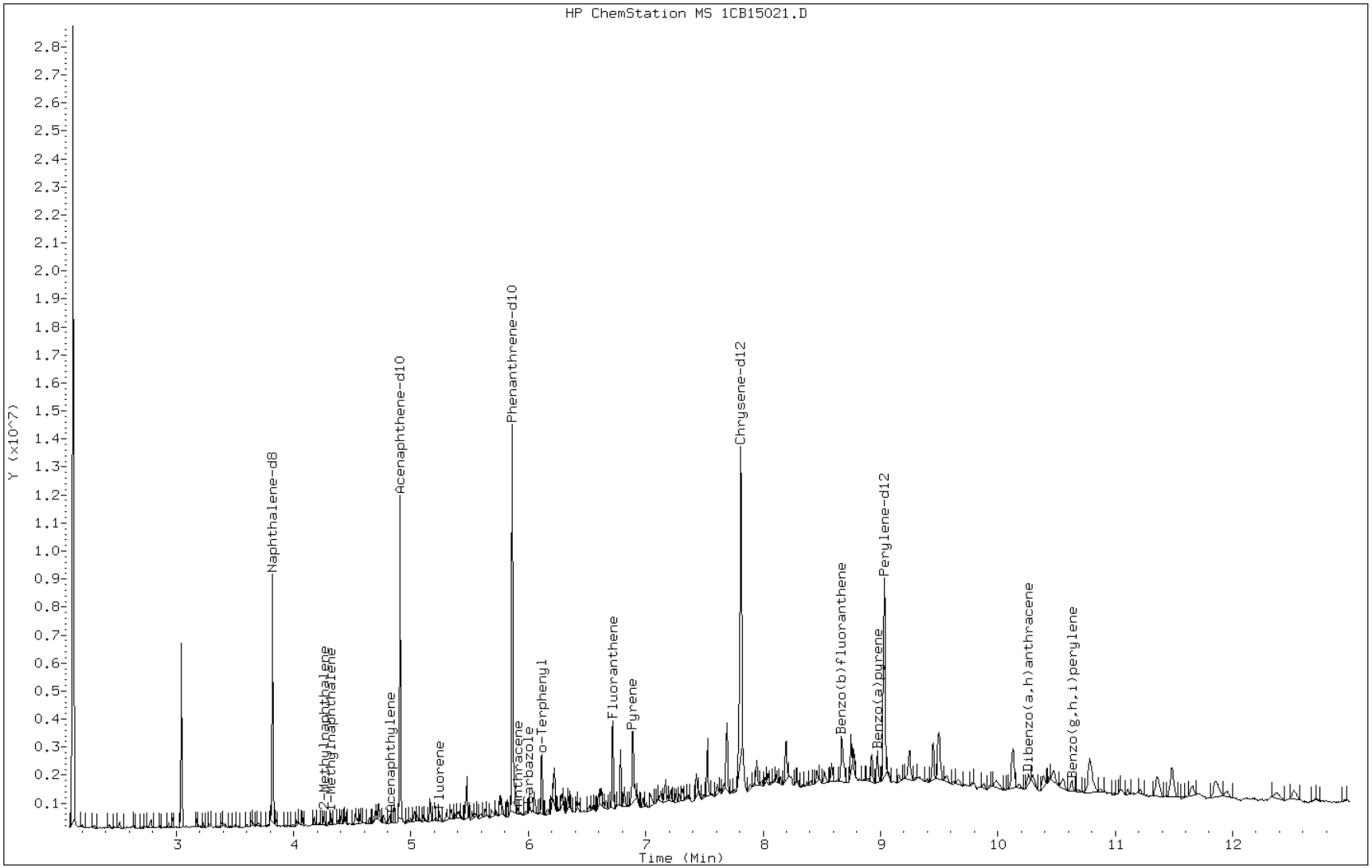
M - Compound response manually integrated.

Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS | Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a | Operator: SCC



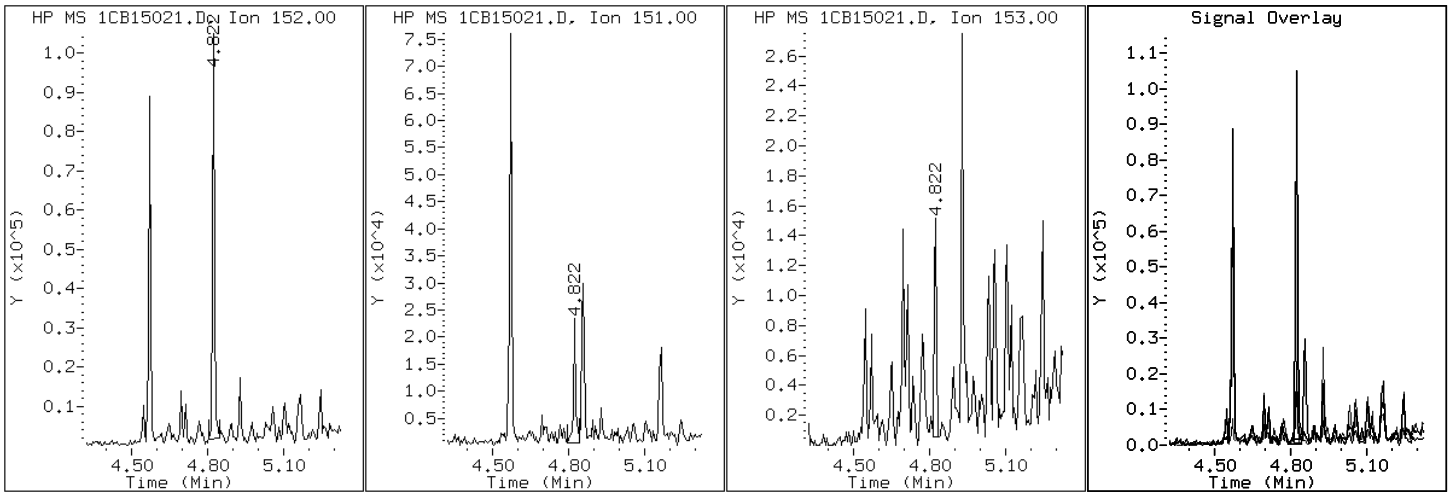
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

5 Acenaphthylene



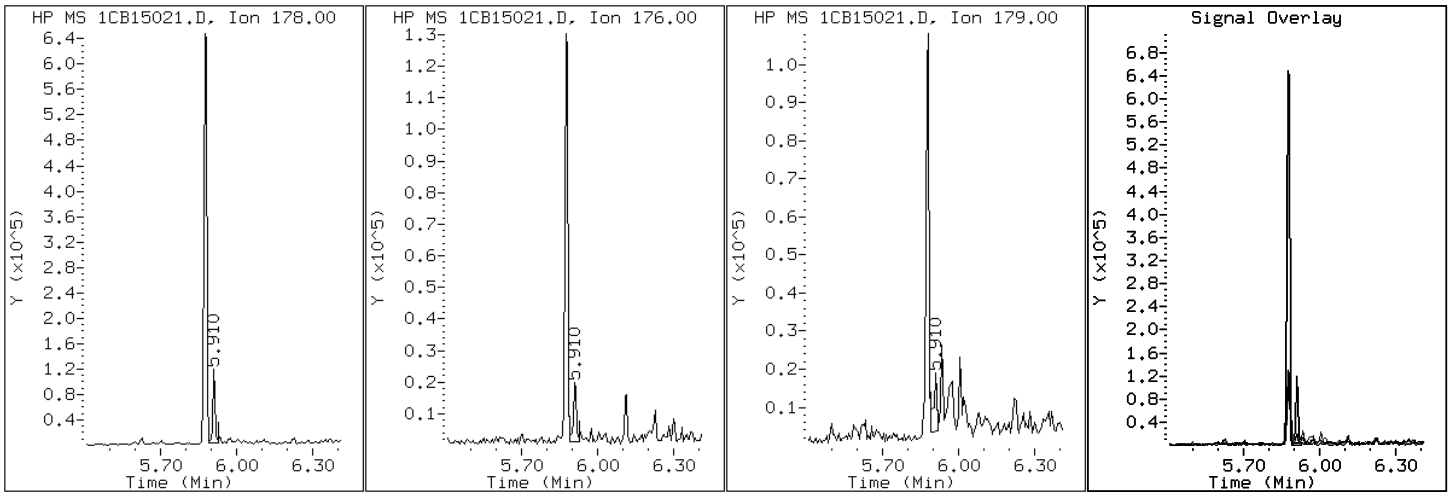
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

12 Anthracene



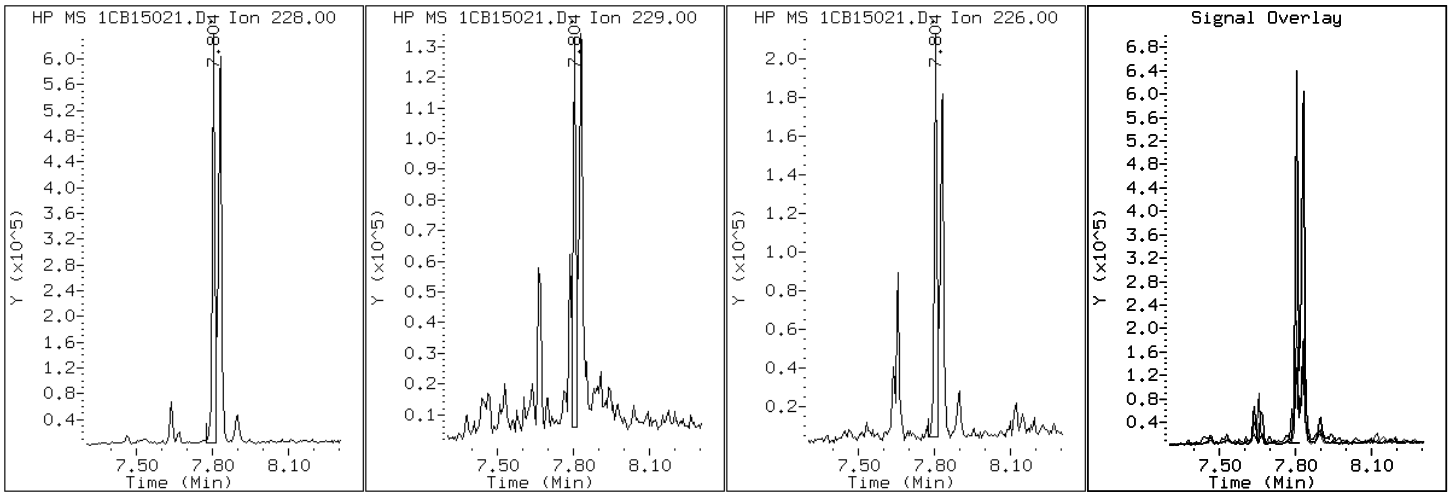
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

17 Benzo(a)anthracene



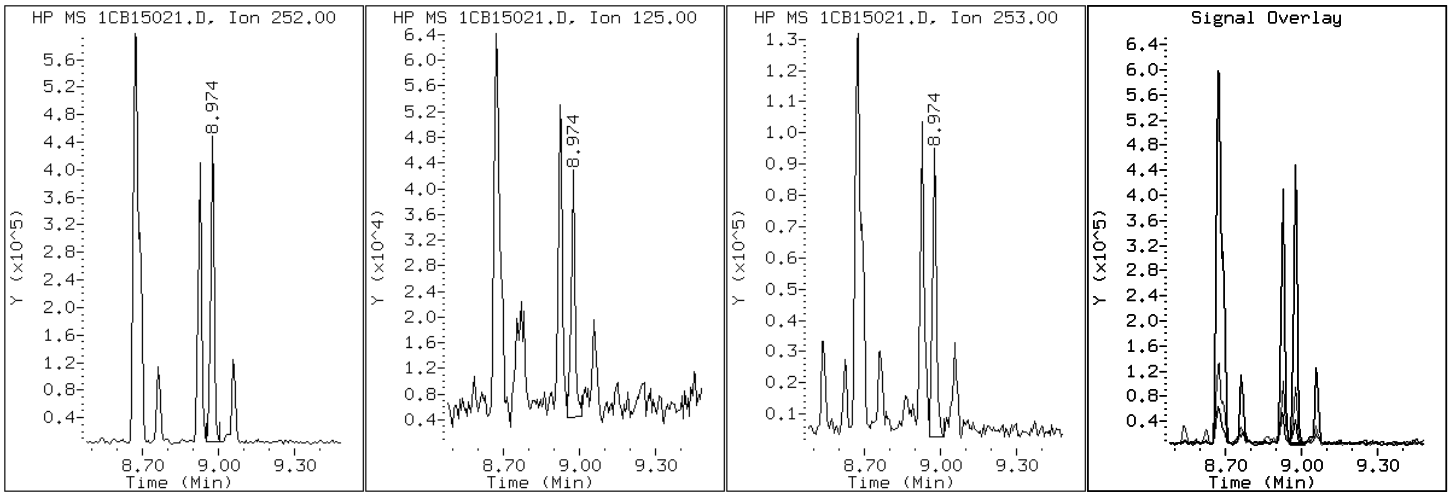
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

22 Benzo(a)pyrene



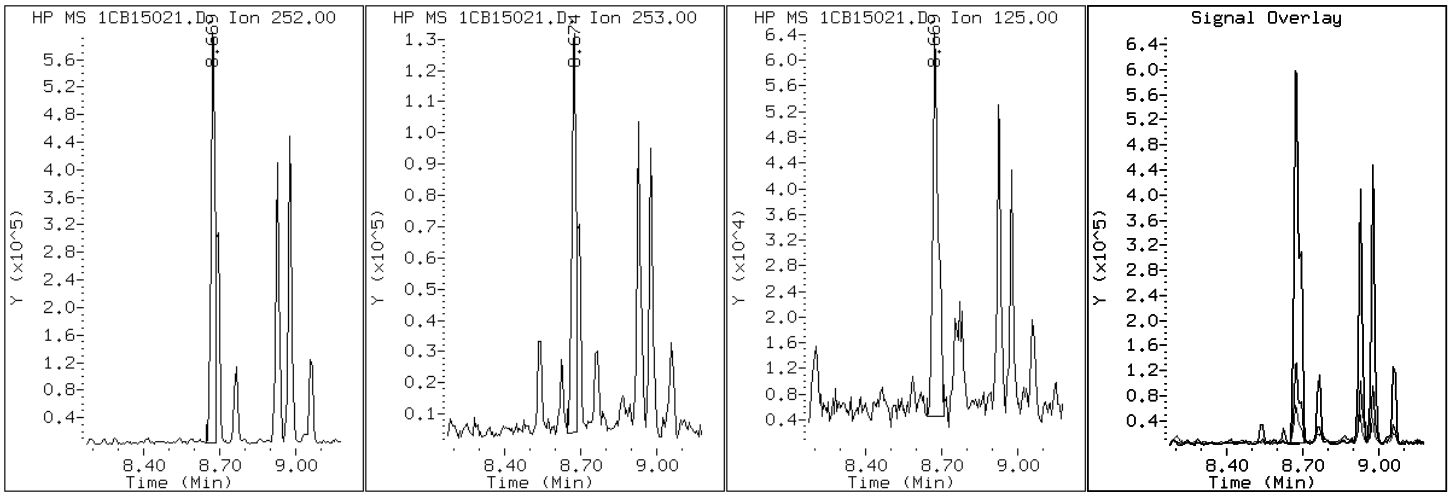
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

20 Benzo(b)fluoranthene



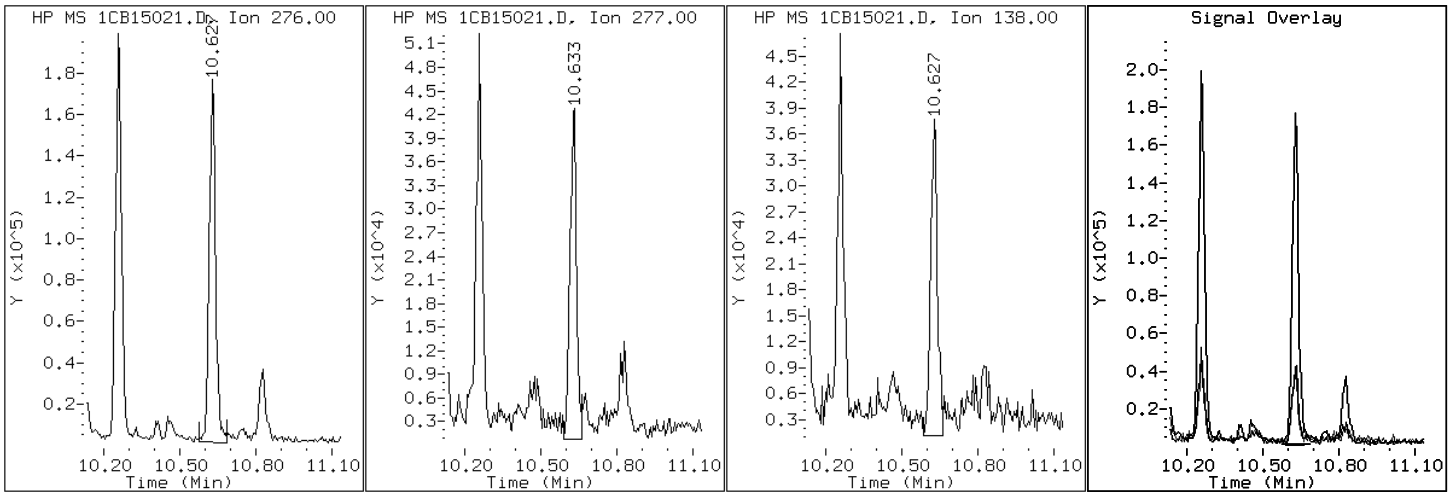
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

26 Benzo(g,h,i)perylene



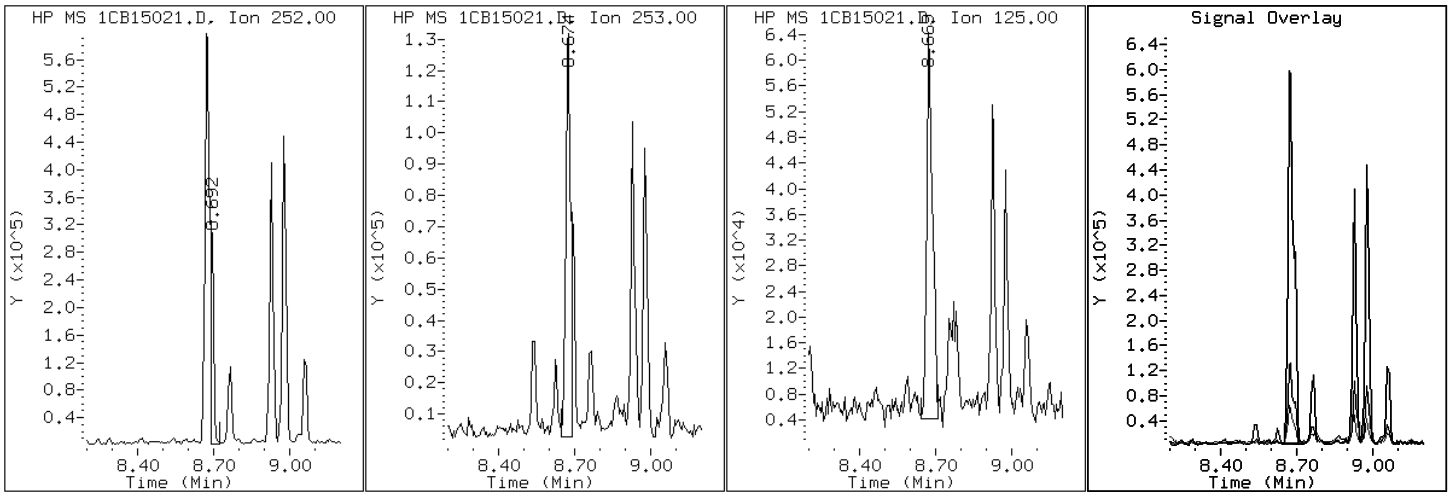
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

21 Benzo(k)fluoranthene



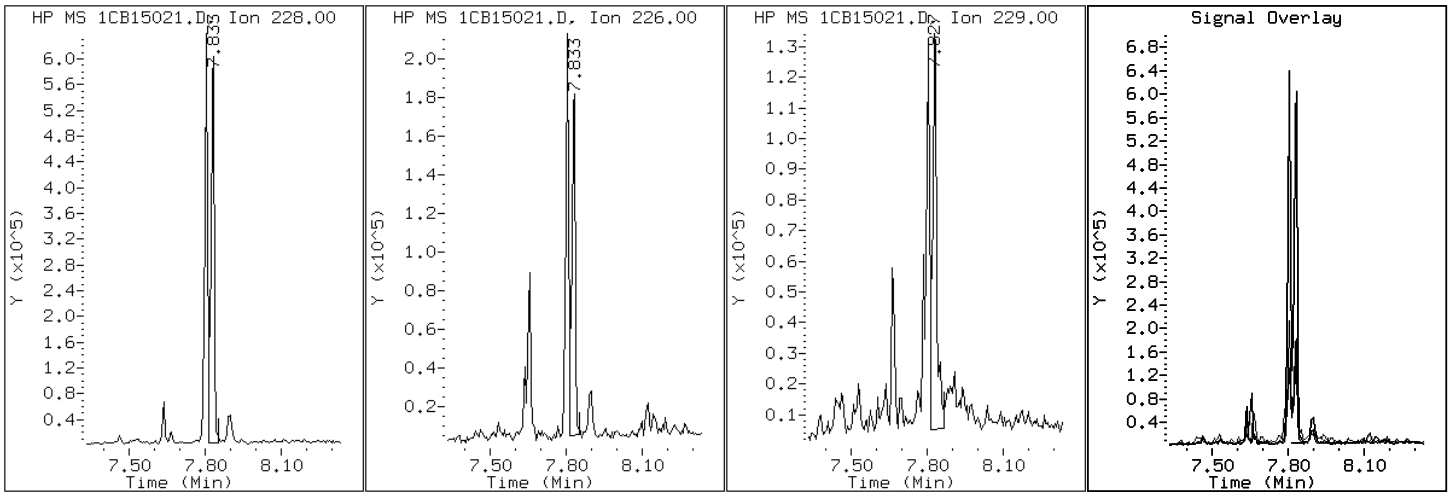
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

19 Chrysene



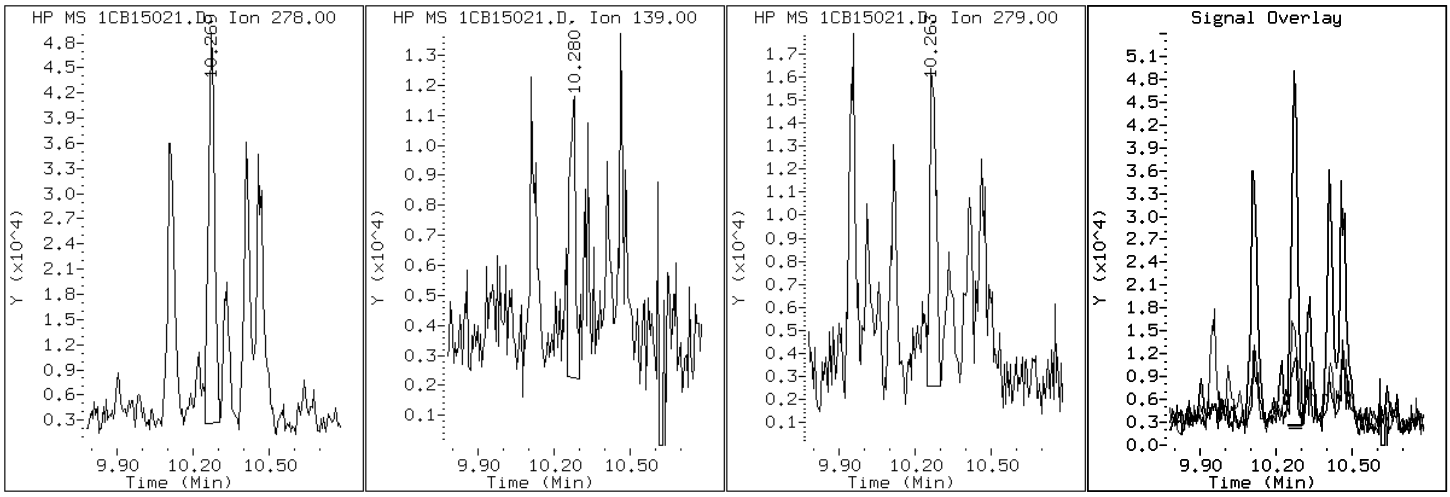
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

25 Dibenzo(a,h)anthracene



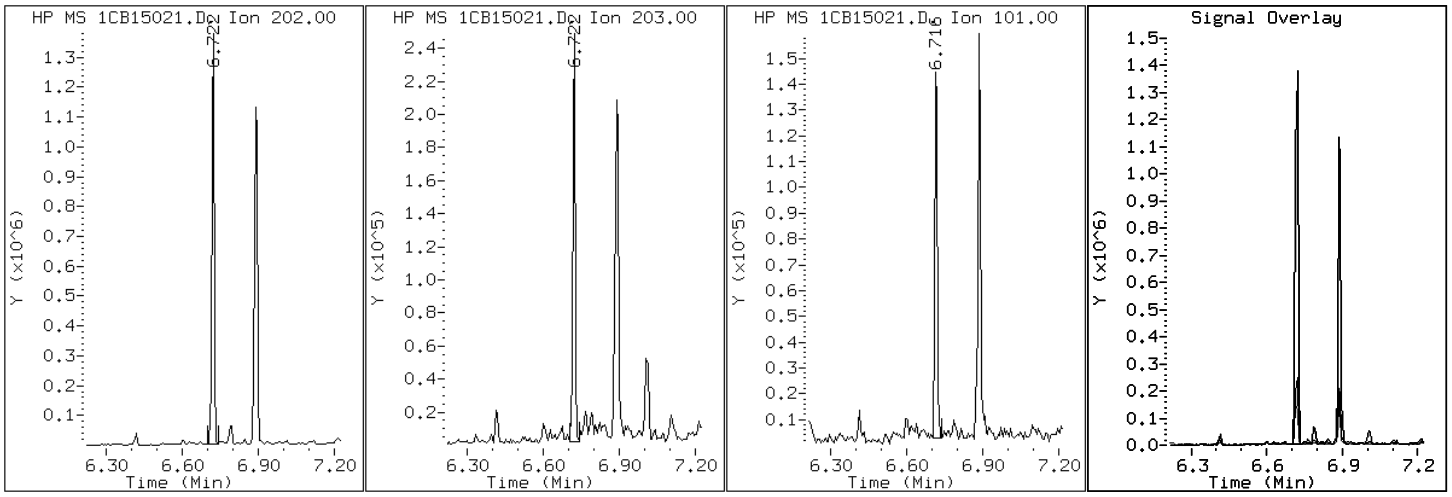
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

15 Fluoranthene



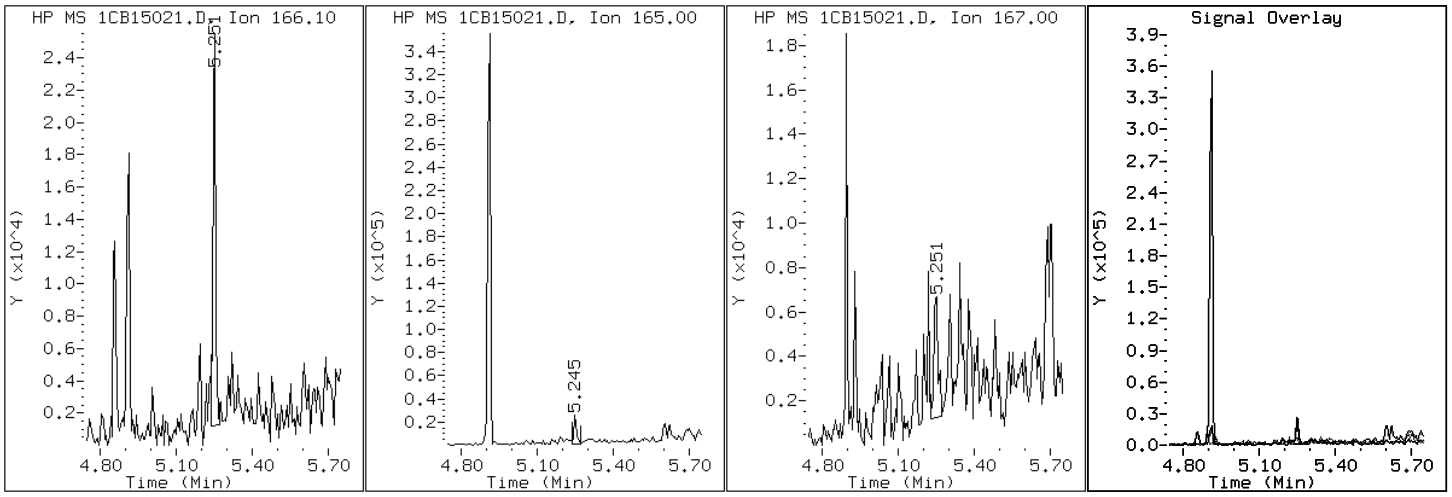
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

9 Fluorene



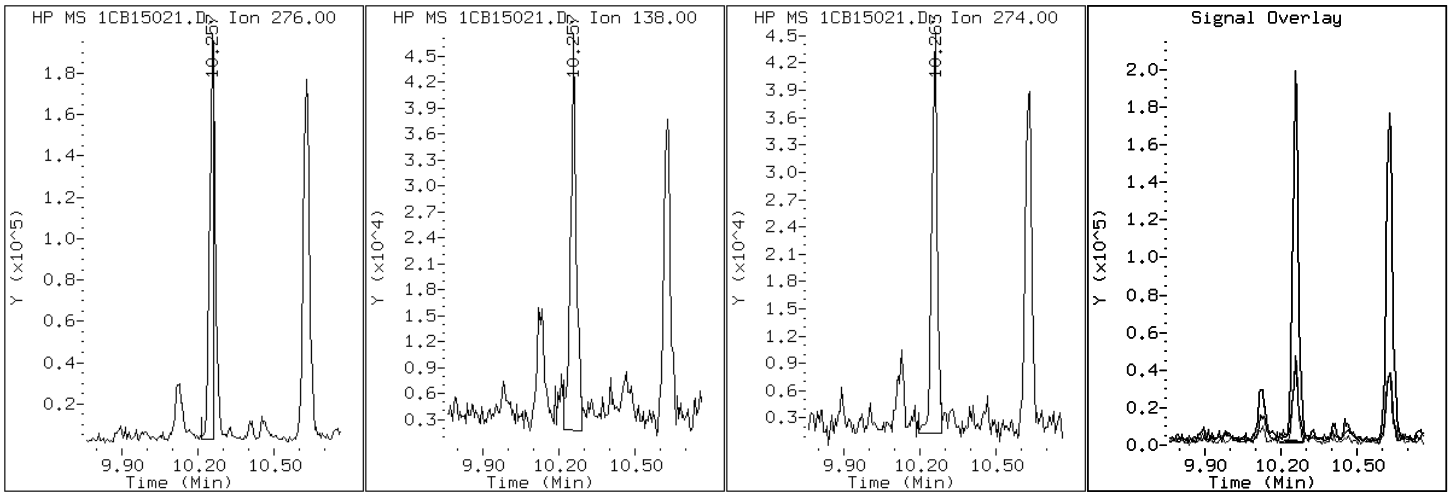
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

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



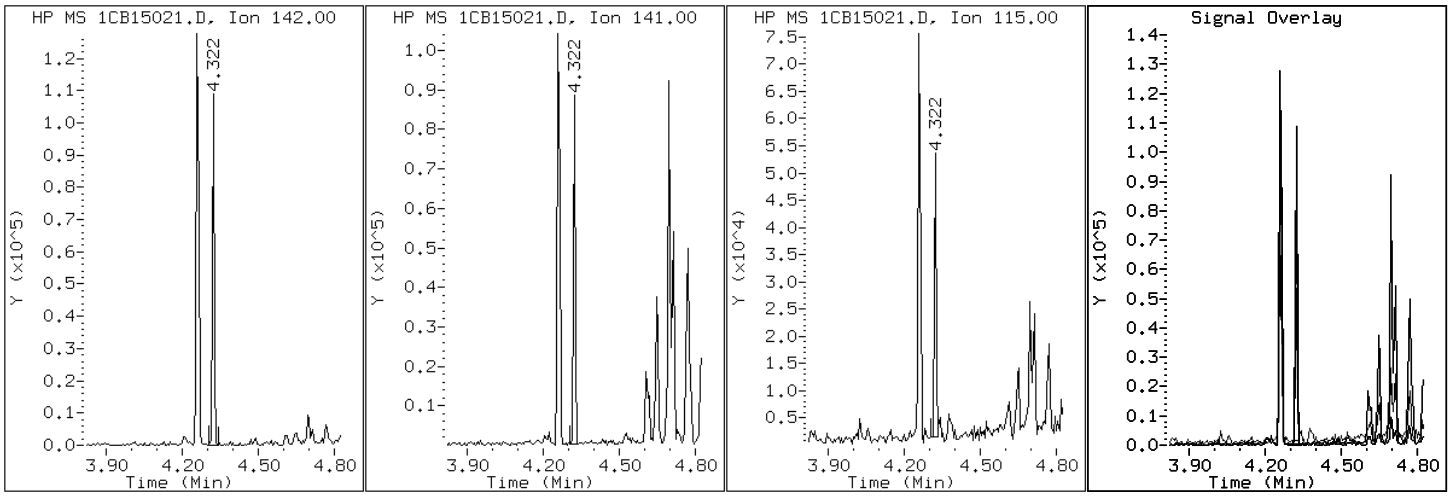
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

4 1-Methylnaphthalene



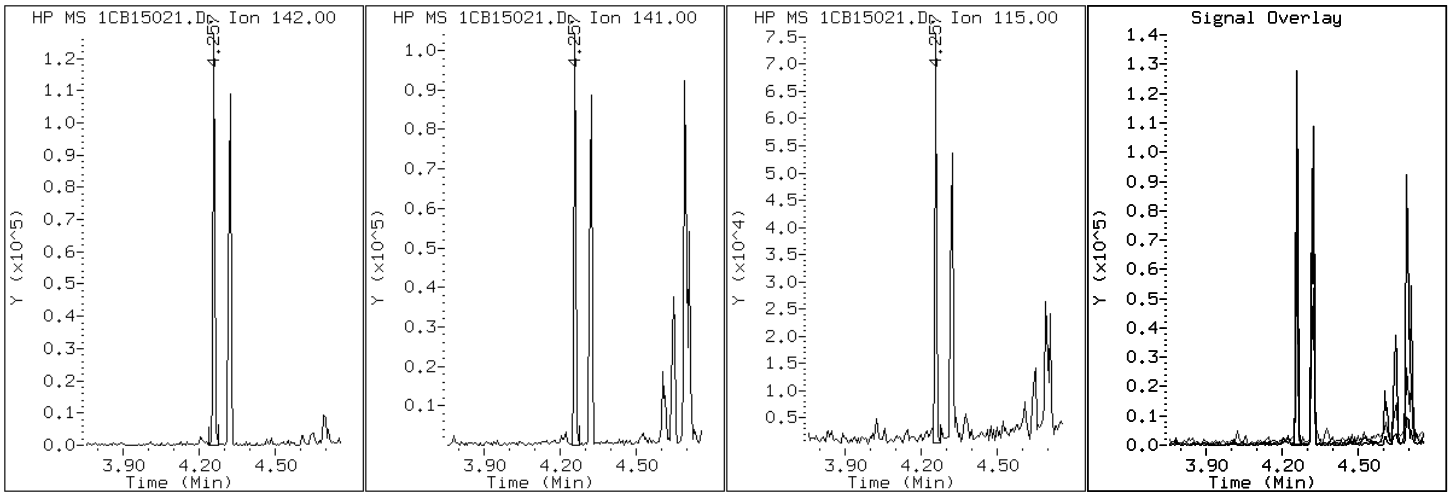
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

3 2-Methylnaphthalene



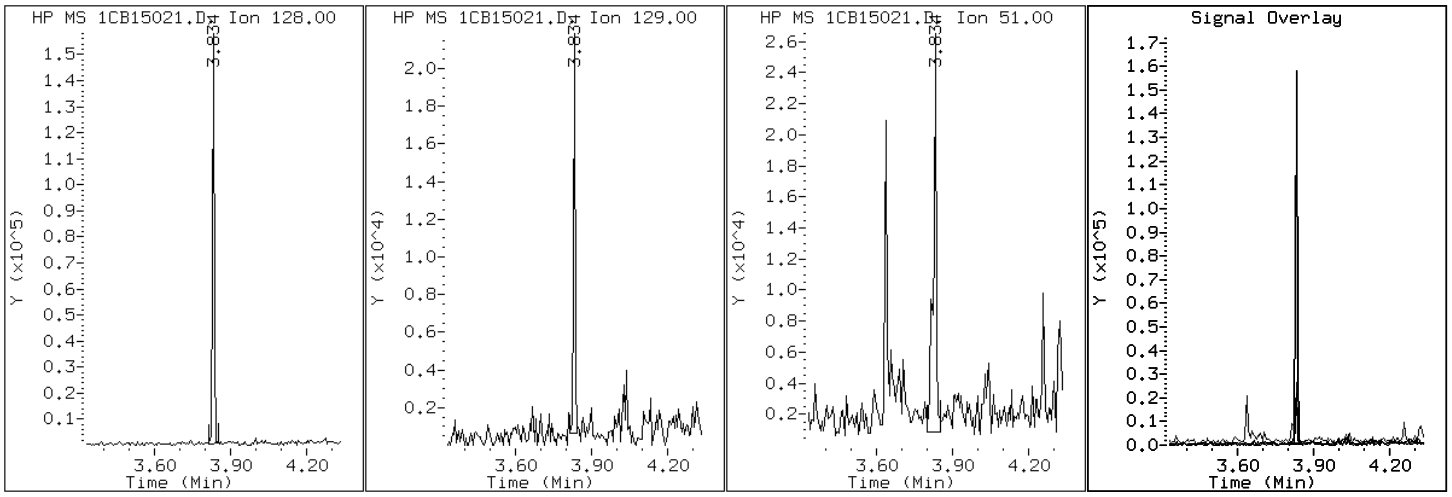
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

2 Naphthalene



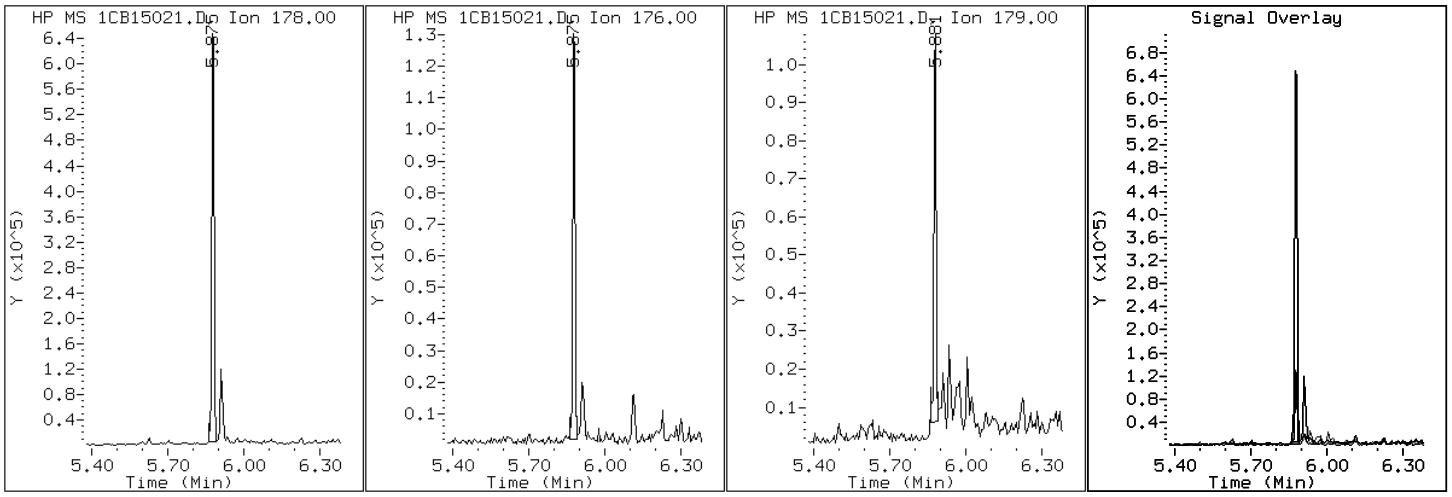
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

11 Phenanthrene



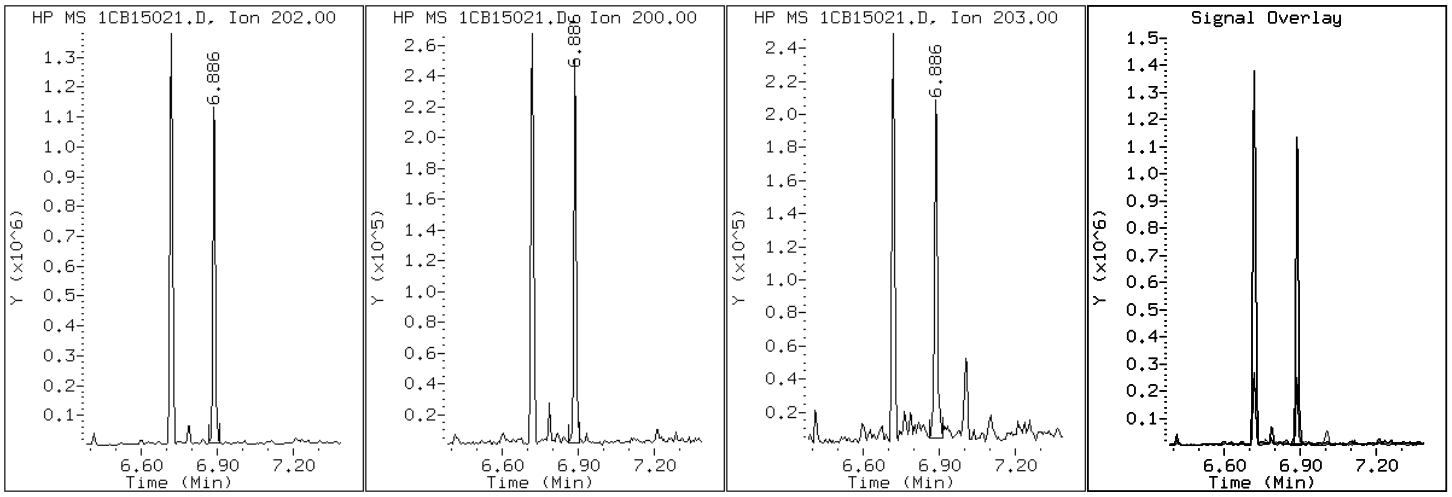
Data File: 1CB15021.D

Date: 15-FEB-2013 17:18

Client ID: CV0005I-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-13-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15021.D
Inj. Date and Time: 15-FEB-2013 17:18
Instrument ID: BSMC5973.i
Client ID: CV0005I-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

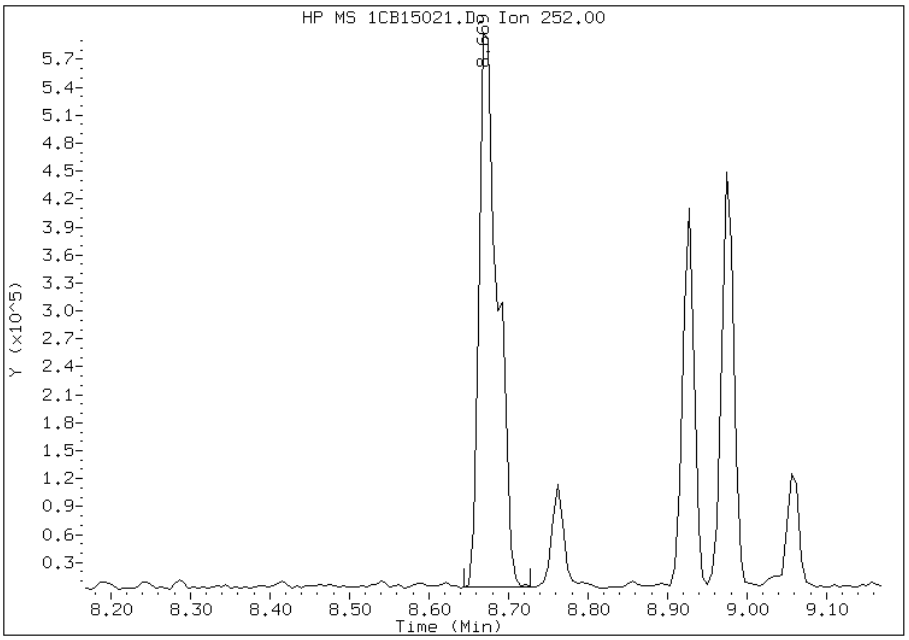
Processing Integration Results

RT: 8.67

Response: 974704

Amount: 13

Conc: 916



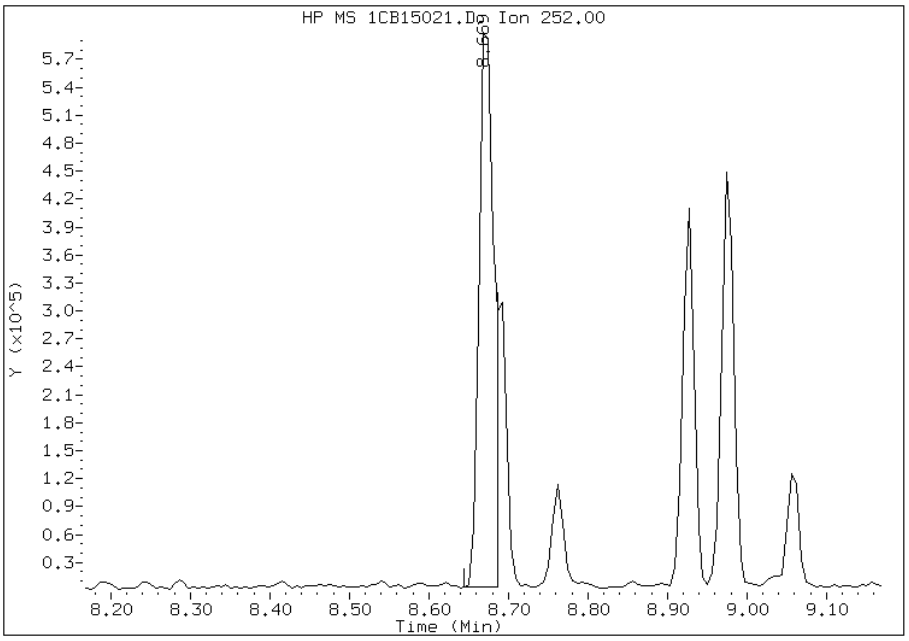
Manual Integration Results

RT: 8.67

Response: 779976

Amount: 11

Conc: 733



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15021.D
Inj. Date and Time: 15-FEB-2013 17:18
Instrument ID: BSMC5973.i
Client ID: CV0005I-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

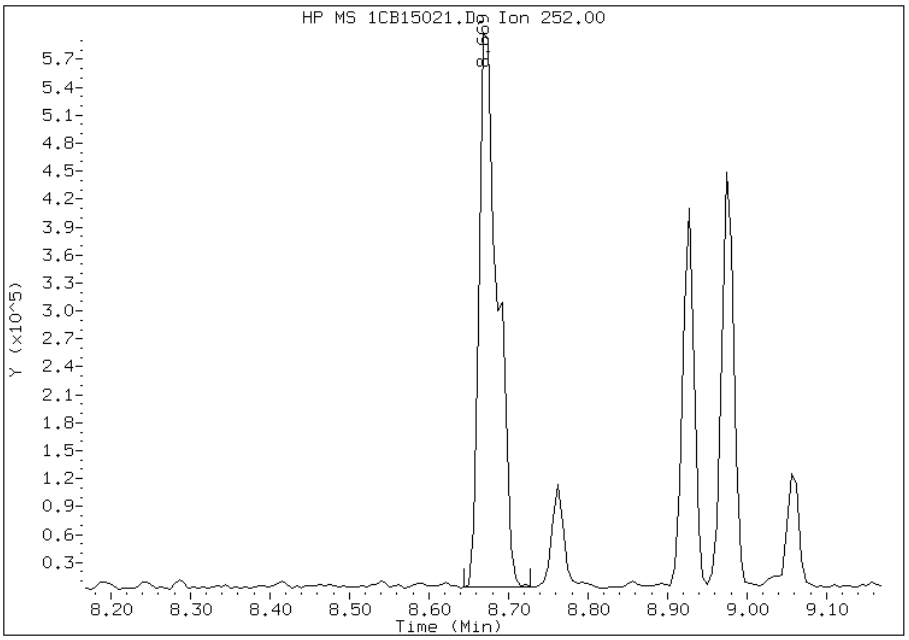
Processing Integration Results

RT: 8.67

Response: 974704

Amount: 12

Conc: 831



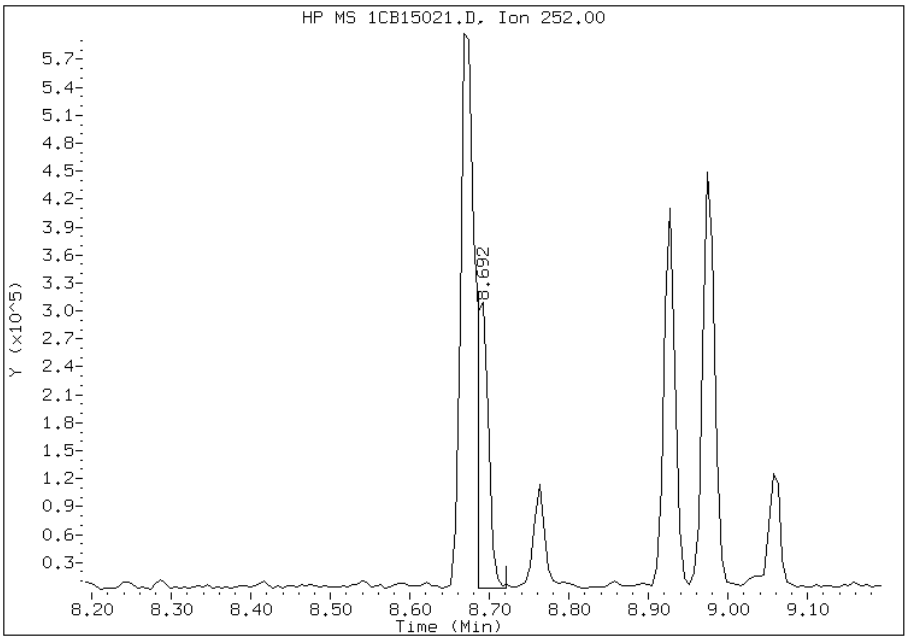
Manual Integration Results

RT: 8.69

Response: 302311

Amount: 4

Conc: 258



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15021.D
Inj. Date and Time: 15-FEB-2013 17:18
Instrument ID: BSMC5973.i
Client ID: CV0005I-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

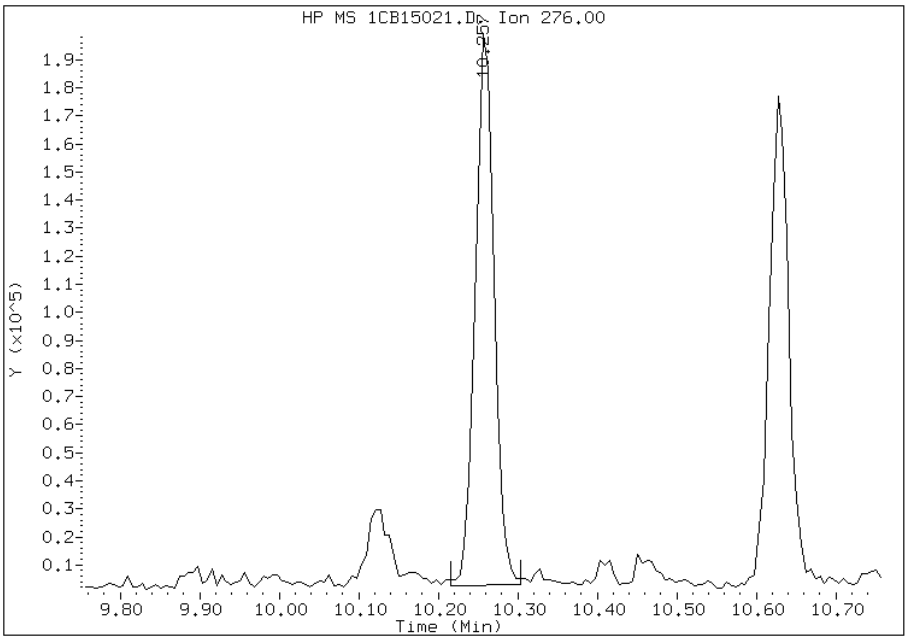
Processing Integration Results

RT: 10.26

Response: 321432

Amount: 5

Conc: 331



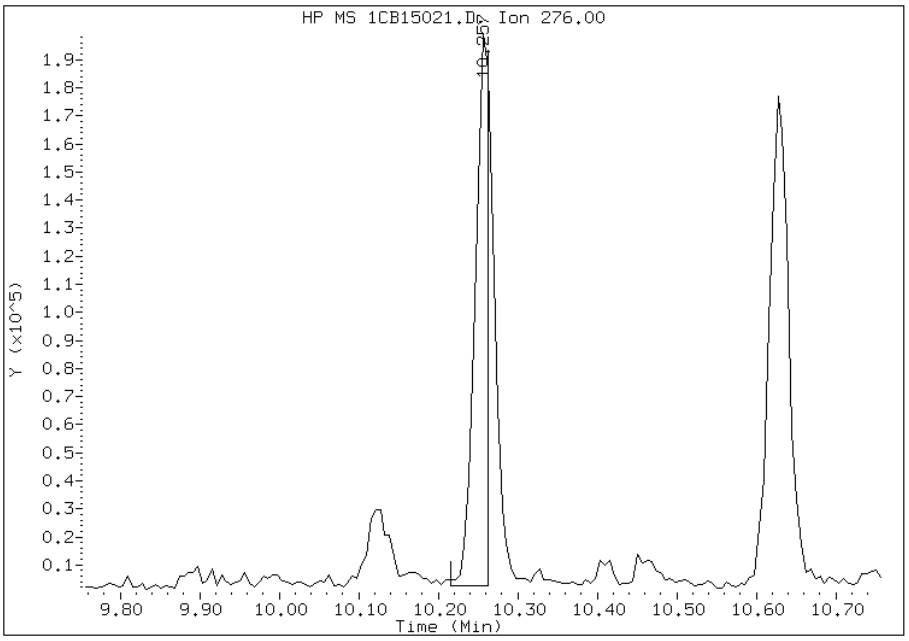
Manual Integration Results

RT: 10.26

Response: 236128

Amount: 3

Conc: 243



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 16:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005J-CS | Lab Sample ID: 680-87318-14

Matrix: Solid | Lab File ID: 1CB15022.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 11:50

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.24(g) | Date Analyzed: 02/15/2013 17:36

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

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

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

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	4.5	J	8.3	4.2
56-55-3	Benzo[a]anthracene	25		7.9	3.9
50-32-8	Benzo[a]pyrene	21		10	5.2
205-99-2	Benzo[b]fluoranthene	44		12	6.1
191-24-2	Benzo[g,h,i]perylene	16	J	20	4.4
207-08-9	Benzo[k]fluoranthene	10		7.9	3.6
218-01-9	Chrysene	29		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	5.3	J	20	4.1
206-44-0	Fluoranthene	41		20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	13	J	20	7.0
90-12-0	1-Methylnaphthalene	11	J	40	4.4
91-57-6	2-Methylnaphthalene	14	J	40	7.0
91-20-3	Naphthalene	14	J	40	4.4
85-01-8	Phenanthrene	27		7.9	3.9
129-00-0	Pyrene	38		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15022.D
Lab Smp Id: 680-87318-A-14-A Client Smp ID: CV0005J-CS
Inj Date : 15-FEB-2013 17:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-14-a
Misc Info : 680-87318-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	Weight Extracted
M	0.87527	% 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	3.822	3.821	(1.000)	2449178	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1919394	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3499890	40.0000	
$ 14 o-Terphenyl	230	6.116	6.115	(1.043)	374253	7.29803	483.1017
* 18 Chrysene-d12	240	7.810	7.815	(1.000)	3428804	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3179341	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	13720	0.21140	13.9940(Q)
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	9010	0.21351	14.1335
4 1-Methylnaphthalene	142	4.322	4.321	(1.131)	6215	0.16193	10.7193
11 Phenanthrene	178	5.874	5.880	(1.002)	42548	0.40728	26.9602
12 Anthracene	178	5.910	5.910	(1.008)	6348	0.06744	4.4644
15 Fluoranthene	202	6.715	6.721	(1.145)	62735	0.61456	40.6815
16 Pyrene	202	6.886	6.886	(0.882)	52648	0.57675	38.1789
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	35332	0.37367	24.7355

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	7.833	7.833	(1.003)	43433	0.44469	29.4370(M)
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	51967	0.66670	44.1327(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	13109	0.15266	10.1053(QMH)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	23353	0.31485	20.8421
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.262	(1.134)	14363	0.20162	13.3461(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.280	(1.136)	5380	0.08008	5.3011(MH)
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	17035	0.23540	15.5827(M)

QC Flag Legend

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

Data File: 1CB15022.D

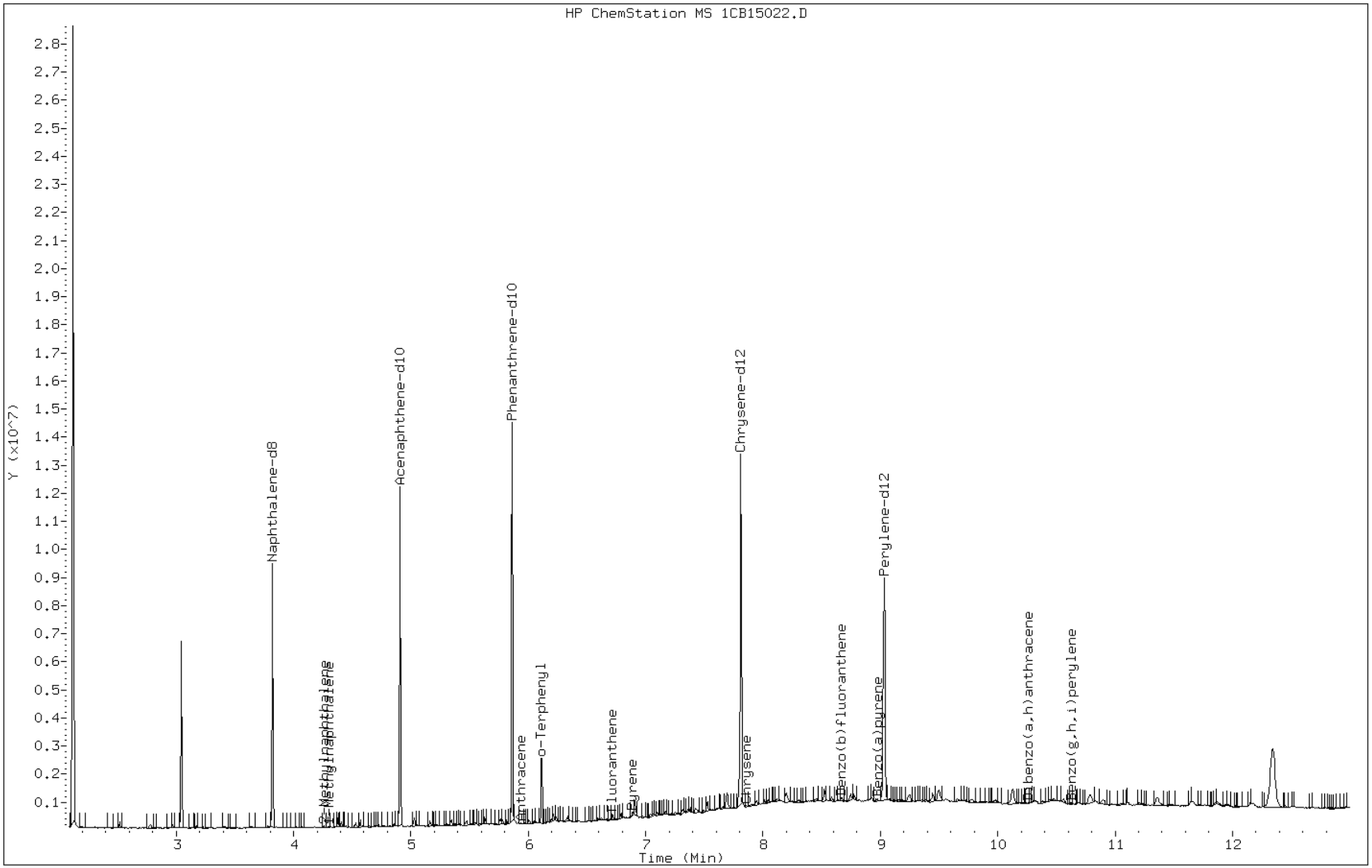
Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a

Operator: SCC



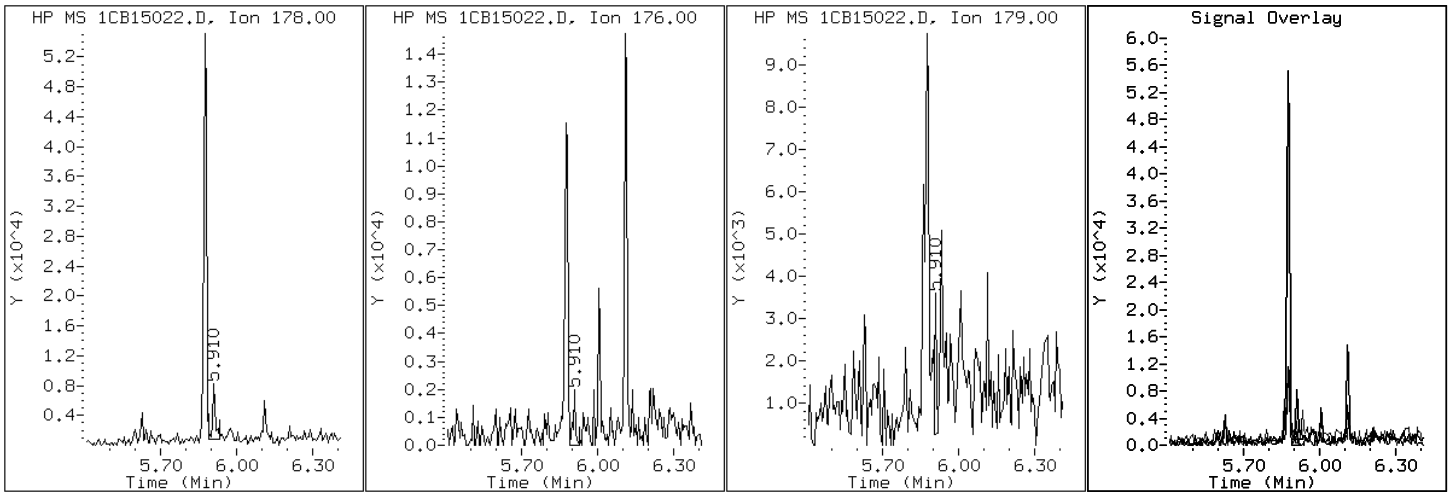
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

12 Anthracene



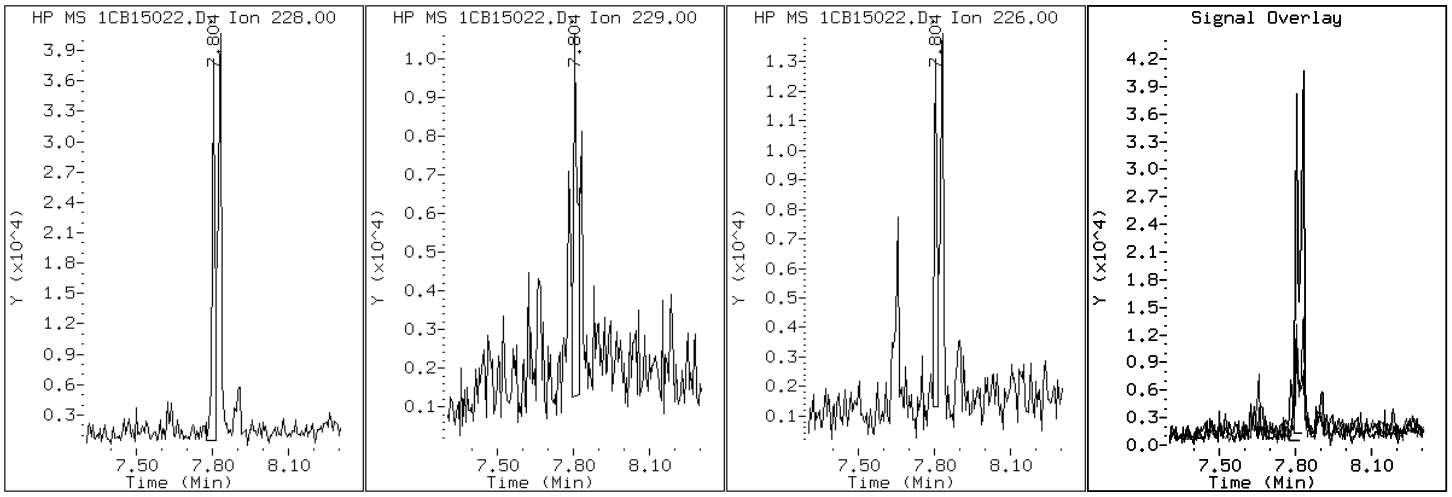
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

17 Benzo(a)anthracene



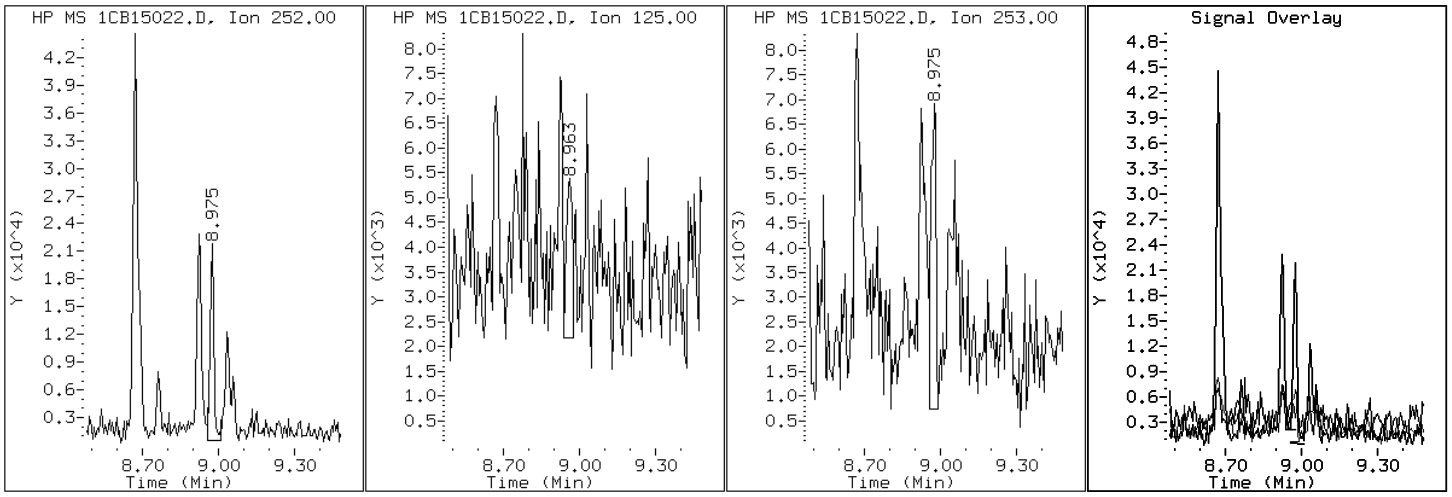
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

22 Benzo(a)pyrene



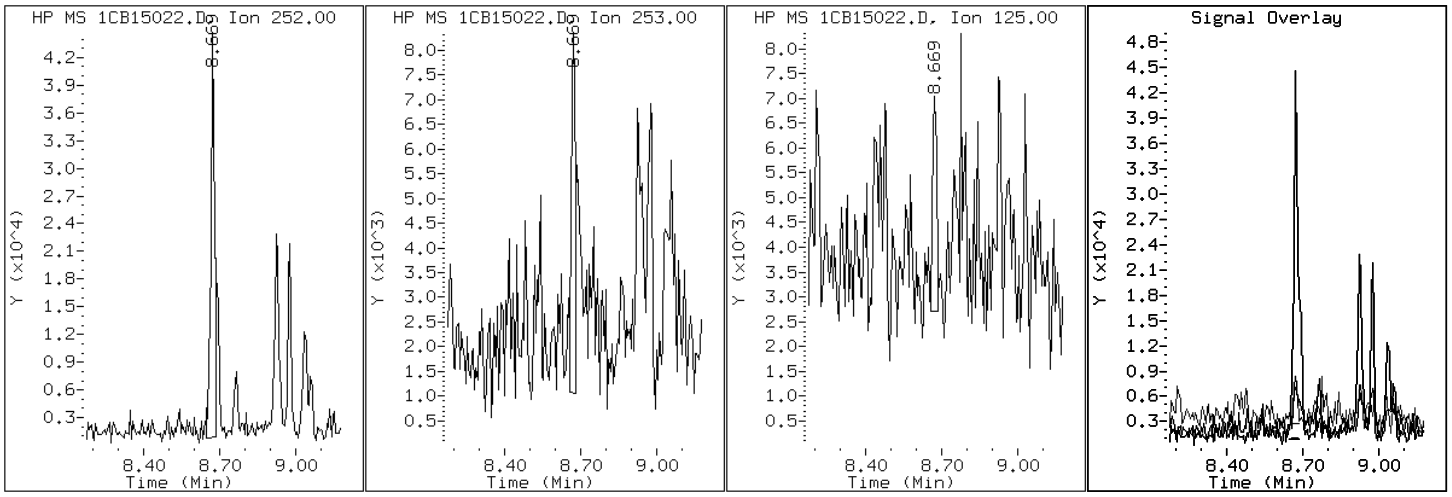
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

20 Benzo(b)fluoranthene



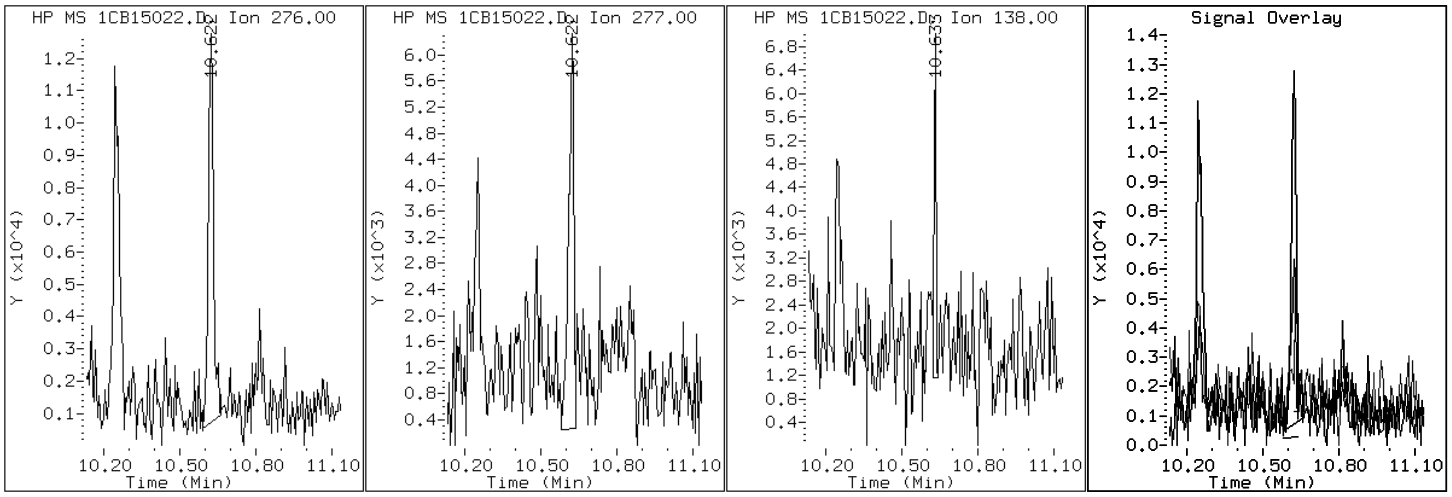
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

26 Benzo(g,h,i)perylene



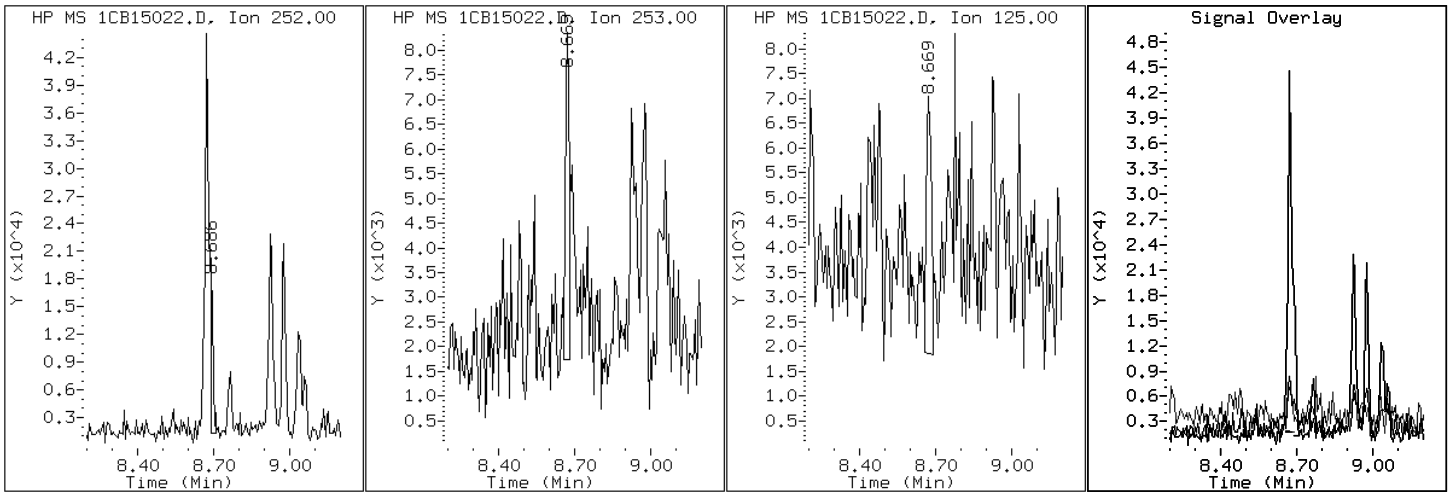
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

21 Benzo(k)fluoranthene



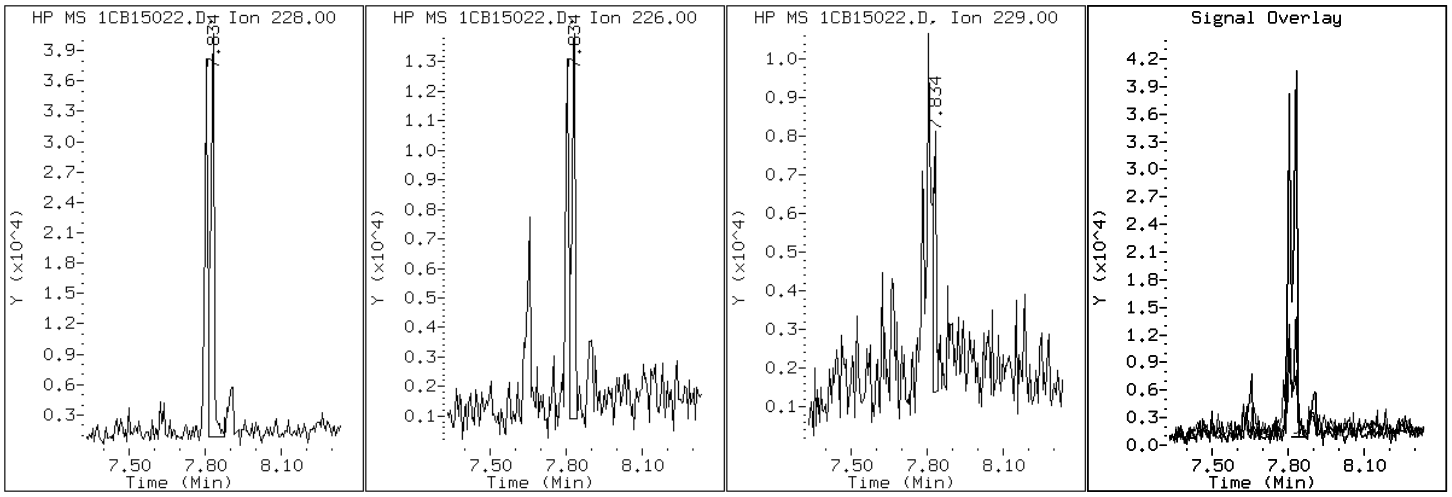
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

19 Chrysene



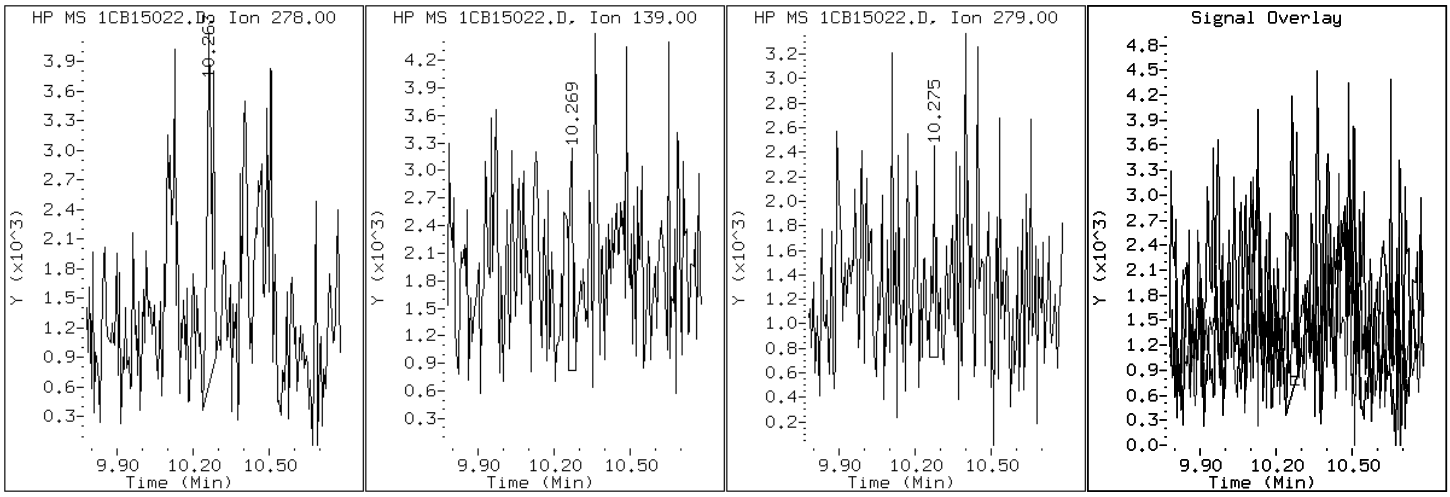
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

25 Dibenzo(a,h)anthracene



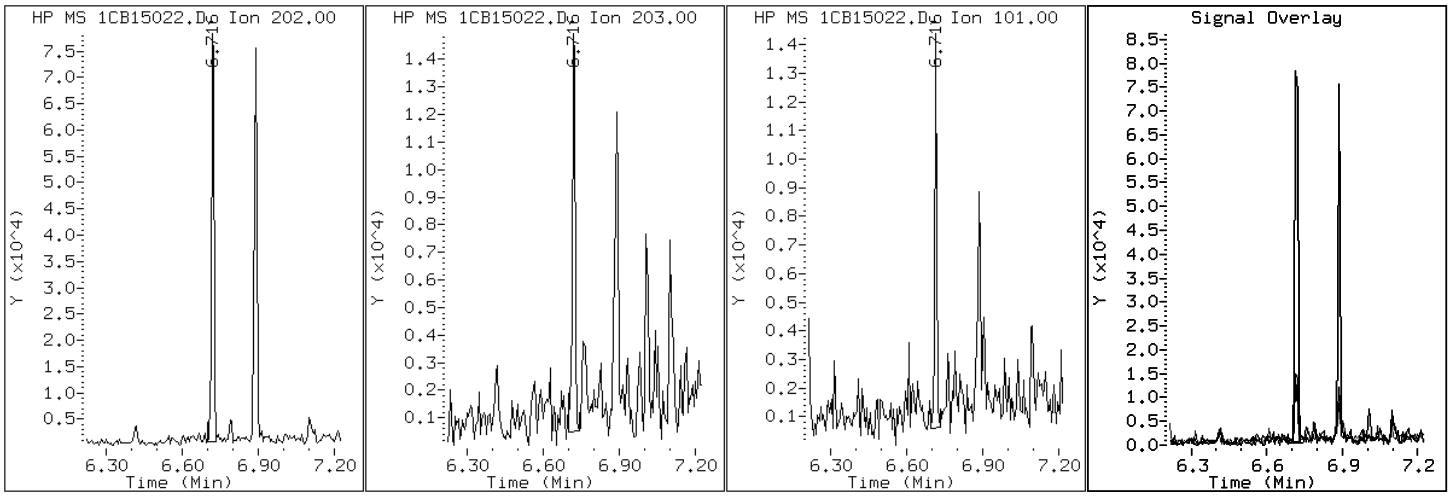
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

15 Fluoranthene



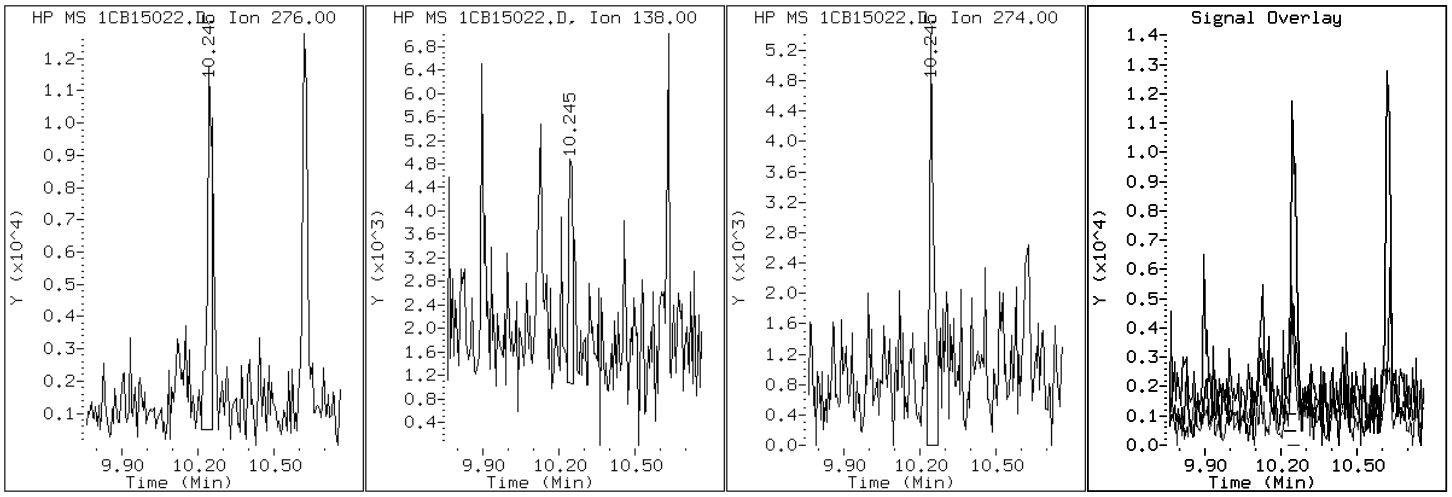
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

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



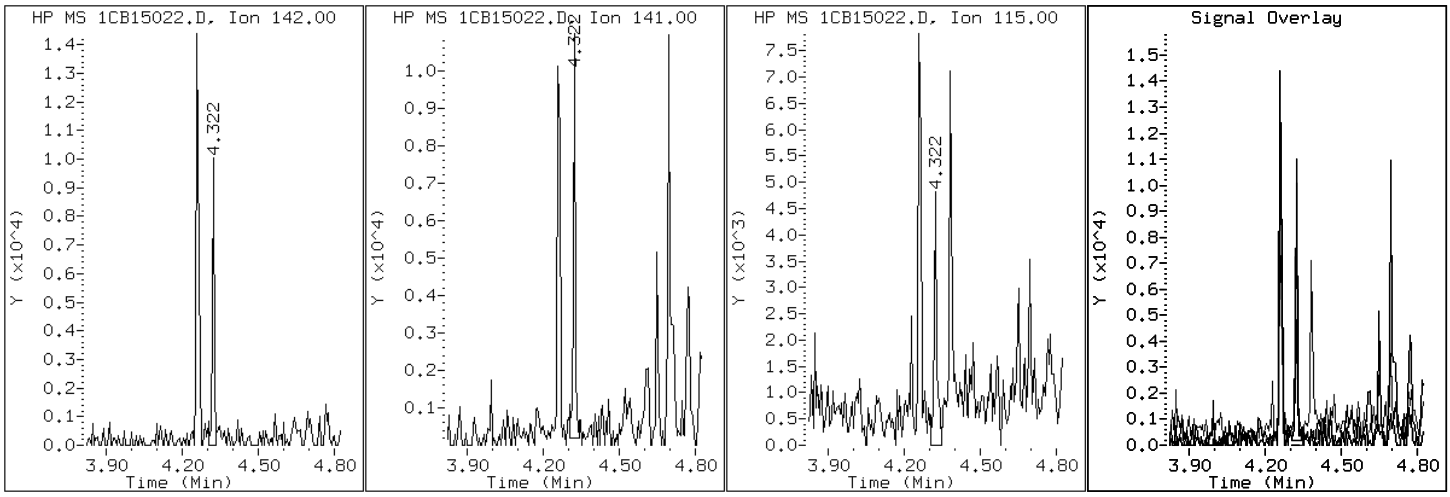
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

4 1-Methylnaphthalene



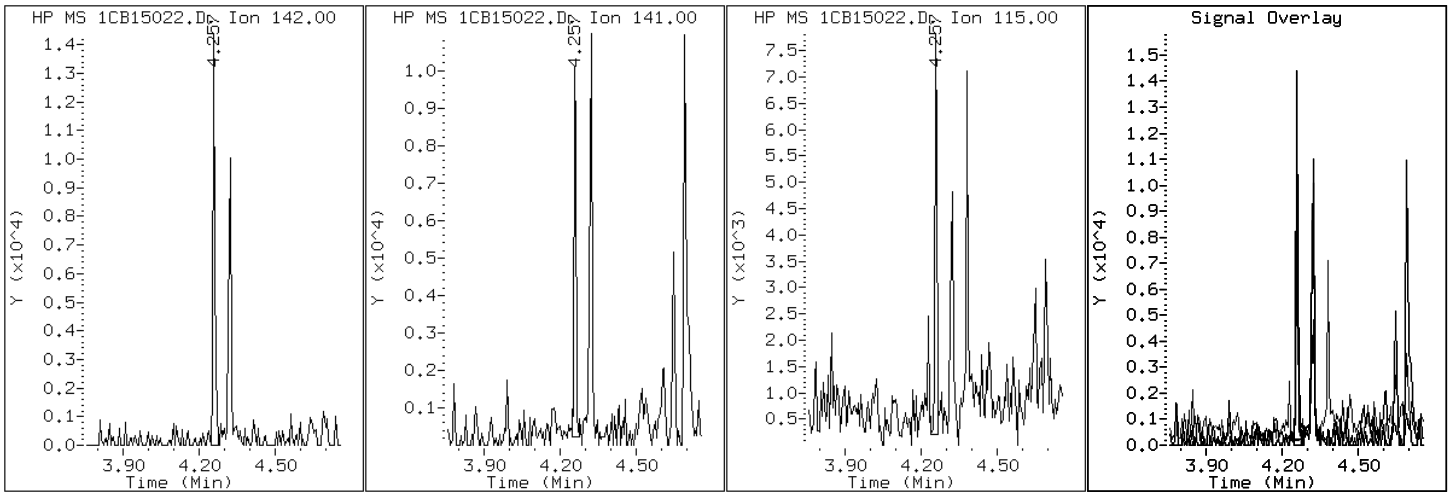
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

3 2-Methylnaphthalene



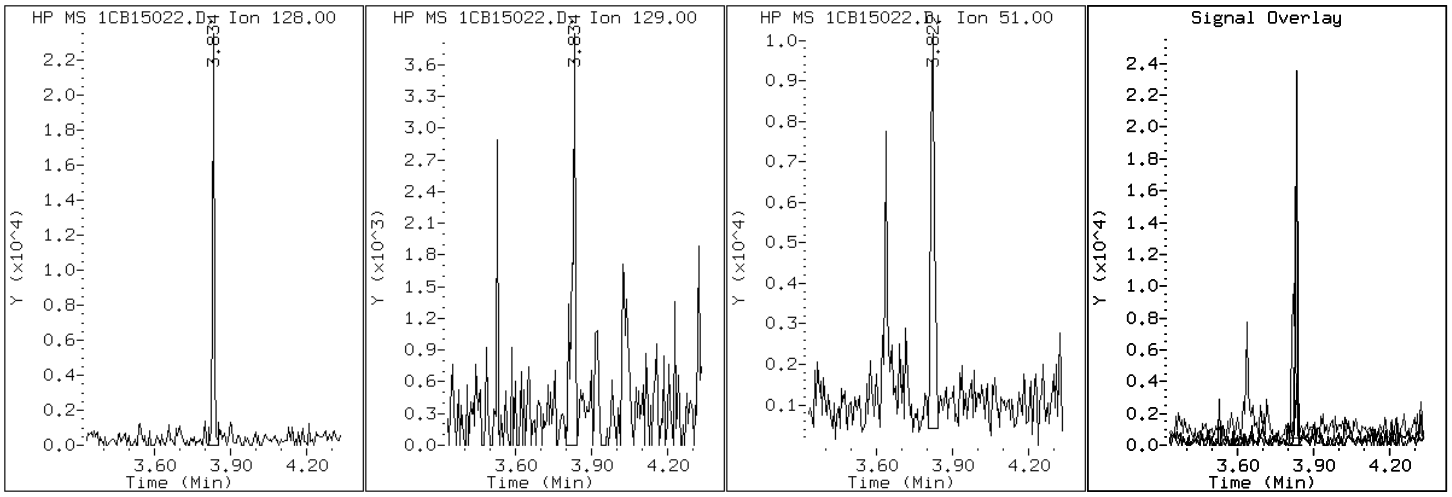
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

2 Naphthalene



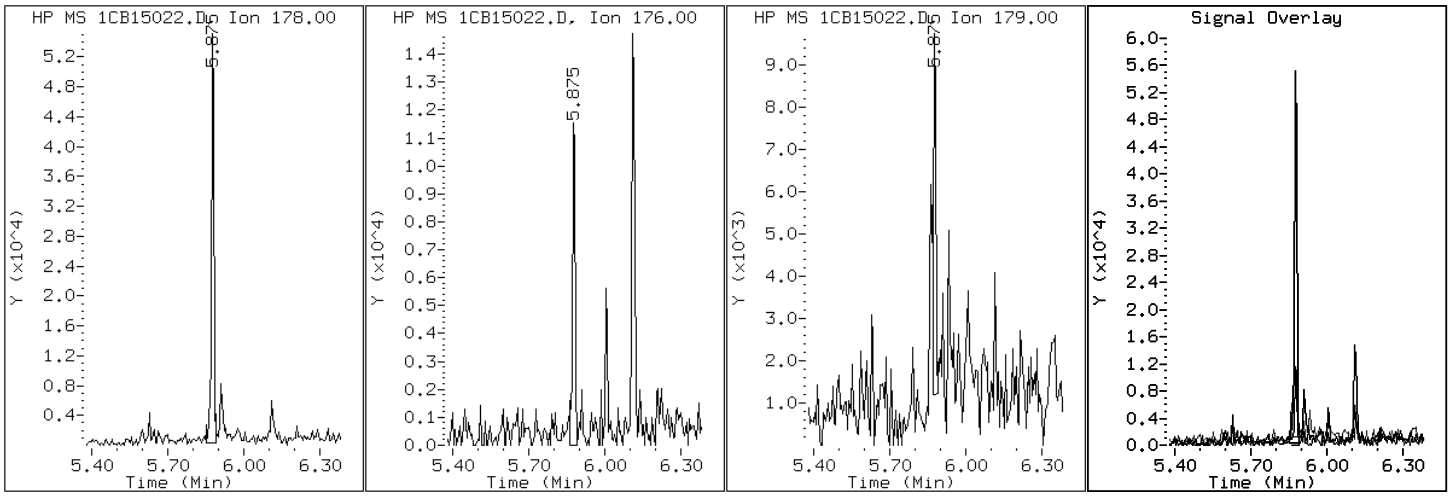
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

11 Phenanthrene



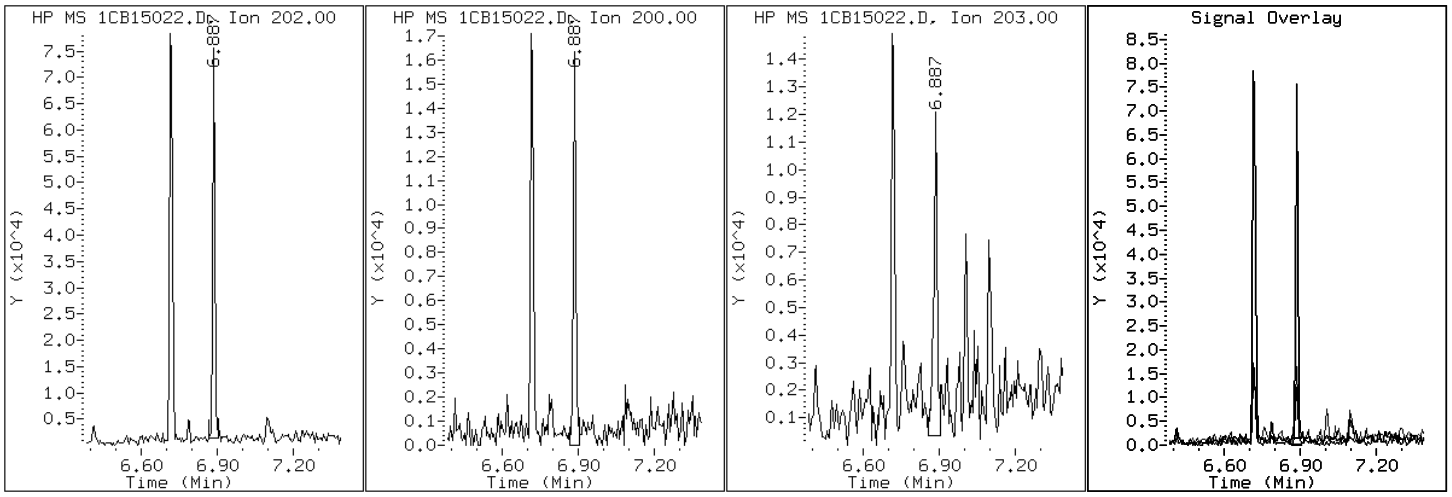
Data File: 1CB15022.D

Date: 15-FEB-2013 17:36

Client ID: CV0005J-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-14-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15022.D
Inj. Date and Time: 15-FEB-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0005J-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

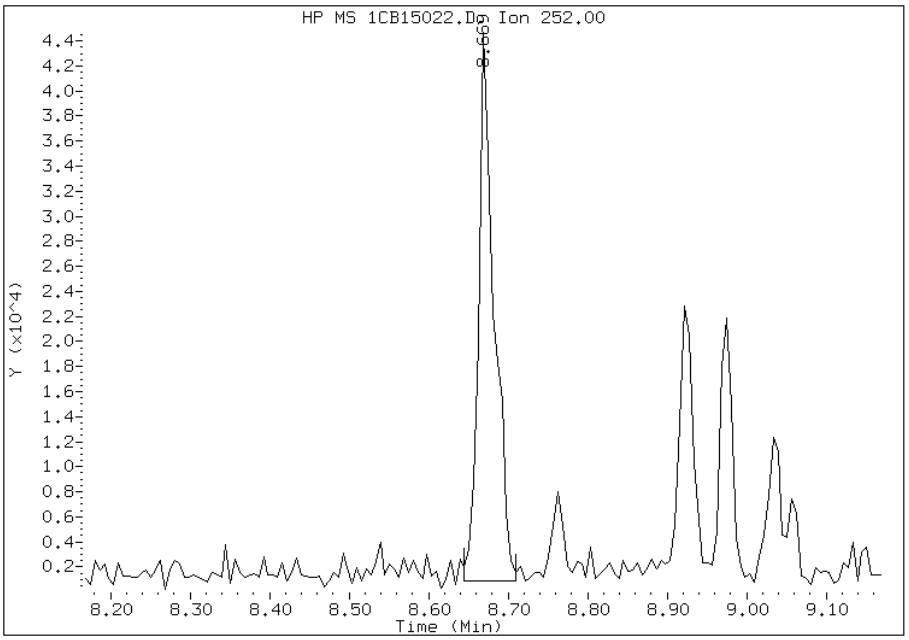
Processing Integration Results

RT: 8.67

Response: 59800

Amount: 1

Conc: 51



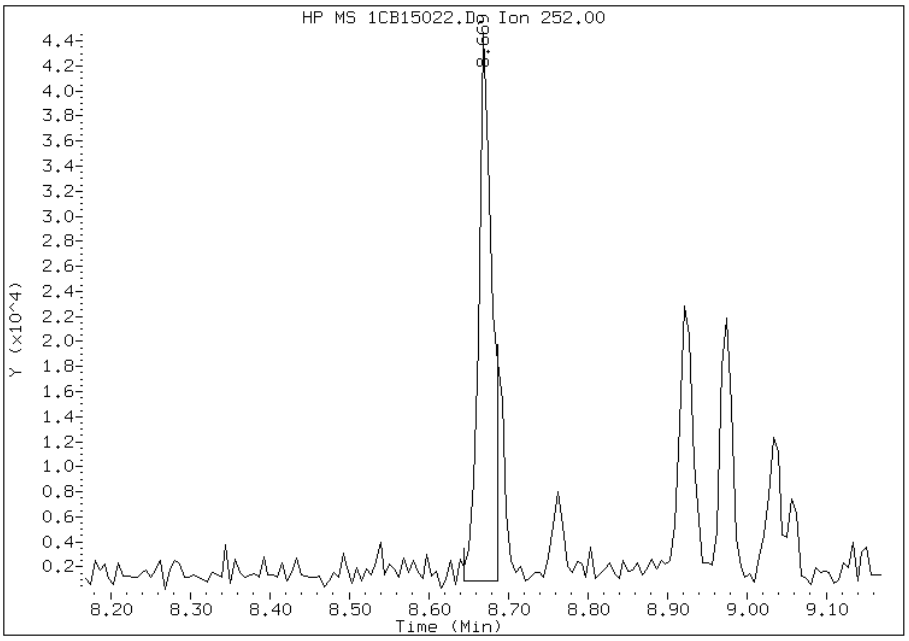
Manual Integration Results

RT: 8.67

Response: 51967

Amount: 1

Conc: 44



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:05
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15022.D
Inj. Date and Time: 15-FEB-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0005J-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/19/2013

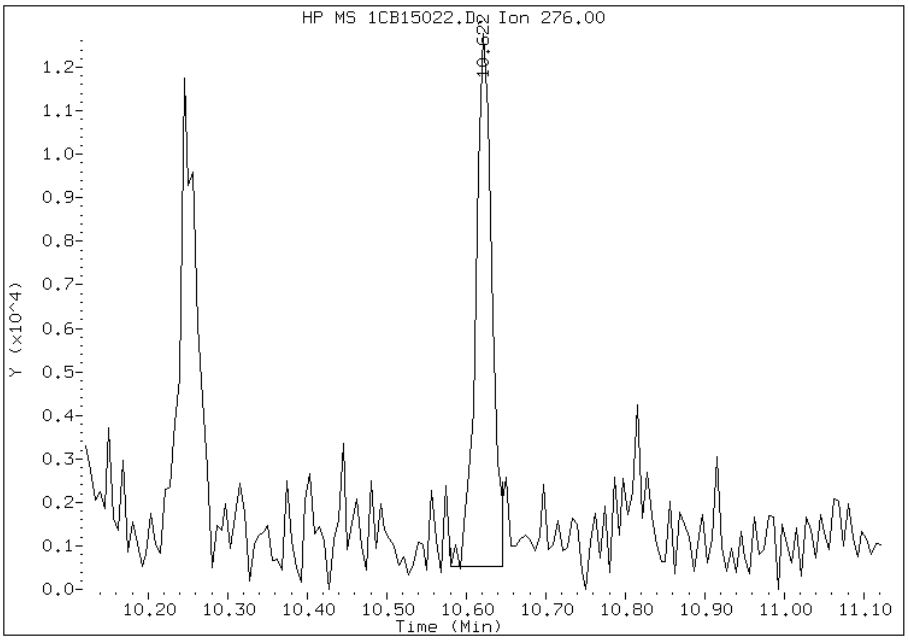
Processing Integration Results

RT: 10.62

Response: 17093

Amount: 0

Conc: 16



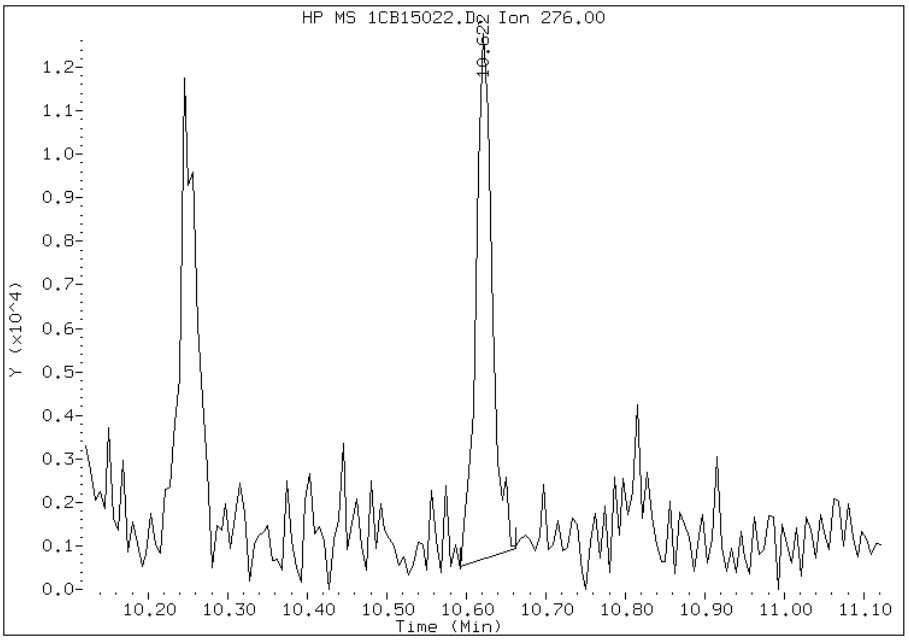
Manual Integration Results

RT: 10.62

Response: 17035

Amount: 0

Conc: 16



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15022.D
Inj. Date and Time: 15-FEB-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0005J-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

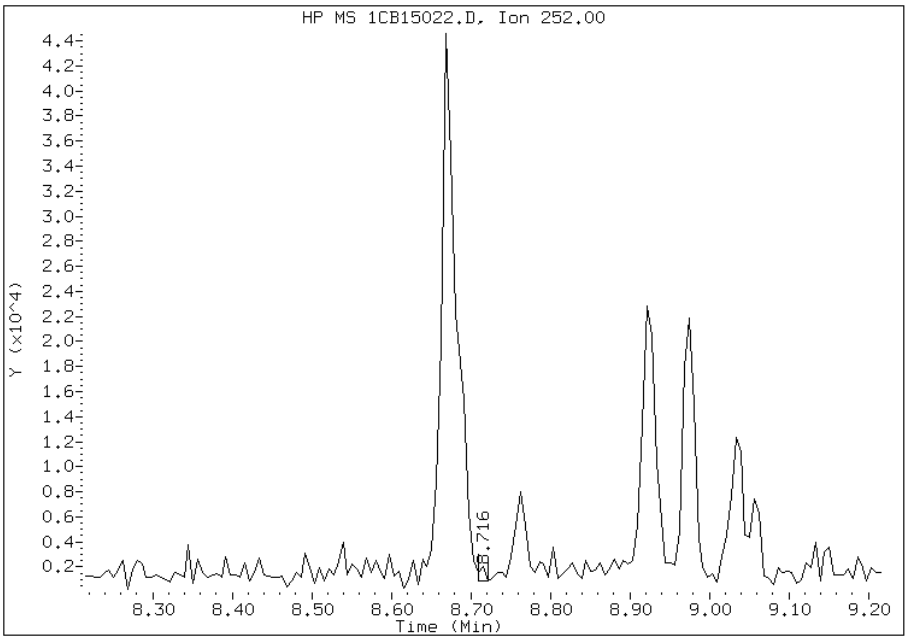
Processing Integration Results

RT: 8.72

Response: 647

Amount: 0

Conc: 0



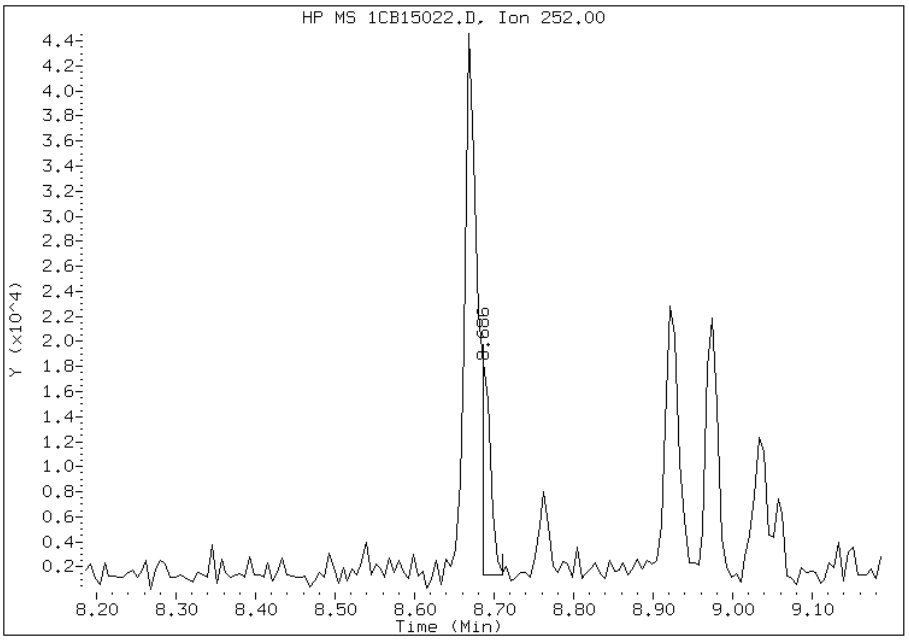
Manual Integration Results

RT: 8.69

Response: 13109

Amount: 0

Conc: 10



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15022.D
Inj. Date and Time: 15-FEB-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0005J-CS
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 02/19/2013

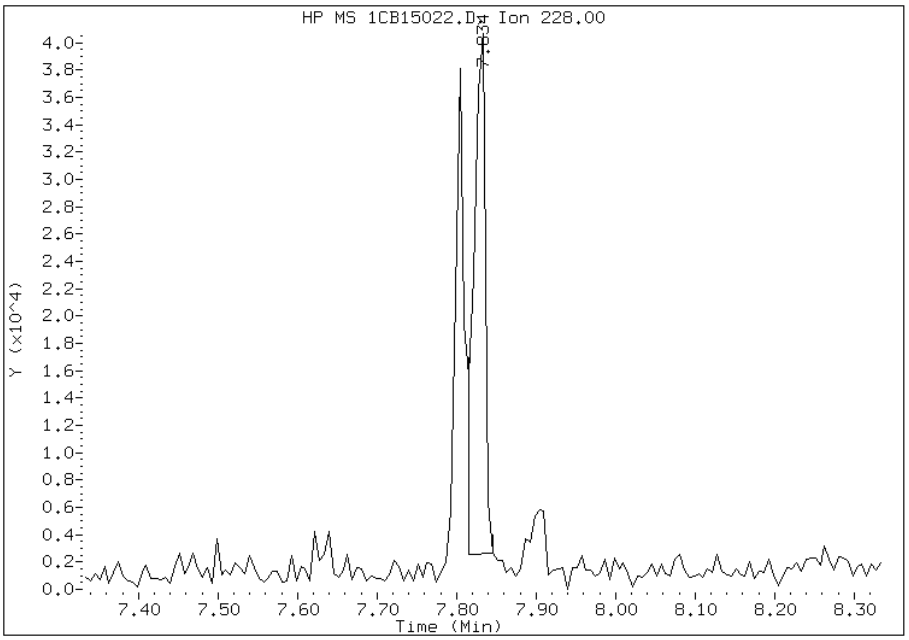
Processing Integration Results

RT: 7.83

Response: 38638

Amount: 0

Conc: 26



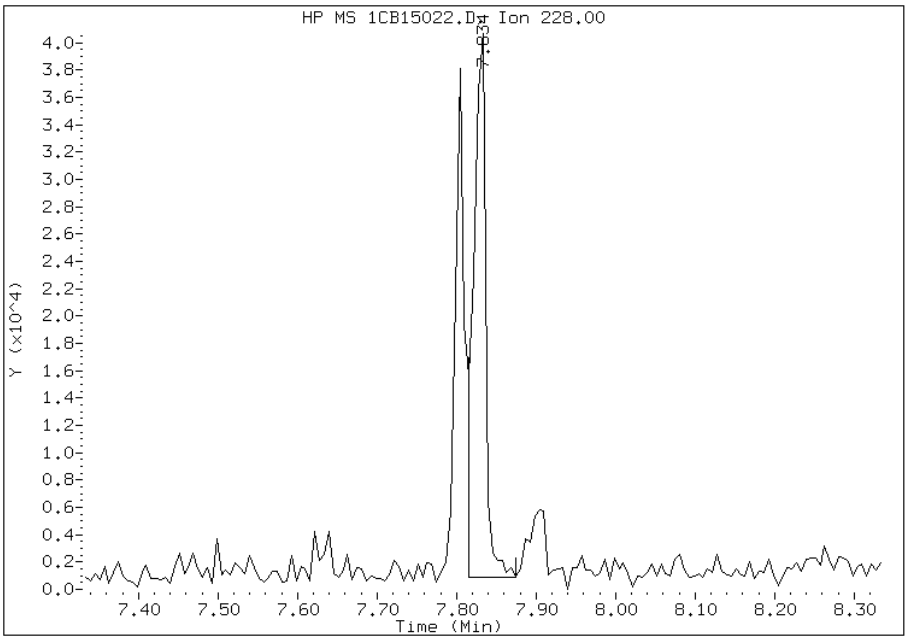
Manual Integration Results

RT: 7.83

Response: 43433

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15022.D
Inj. Date and Time: 15-FEB-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0005J-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/19/2013

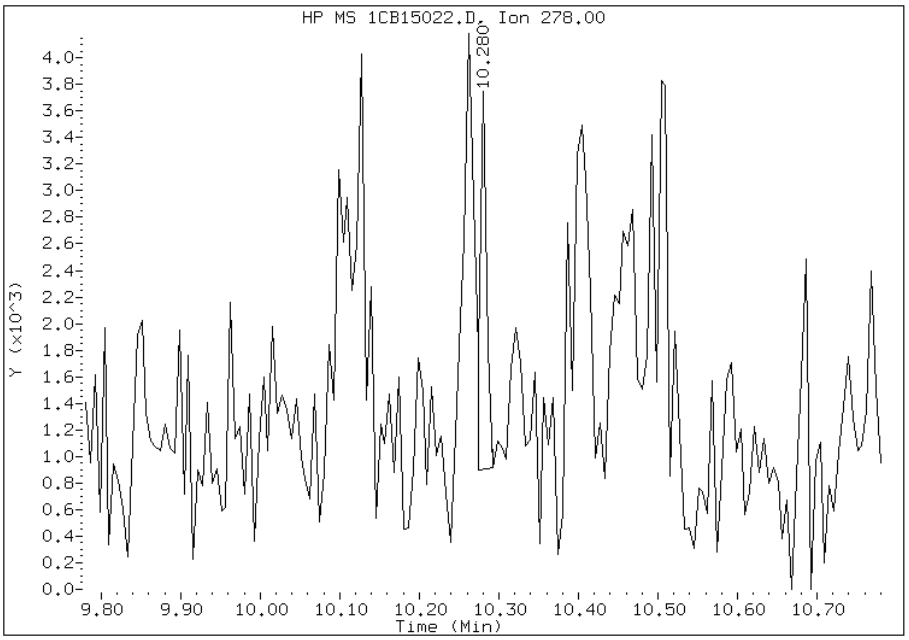
Processing Integration Results

RT: 10.28

Response: 1640

Amount: 0

Conc: 2



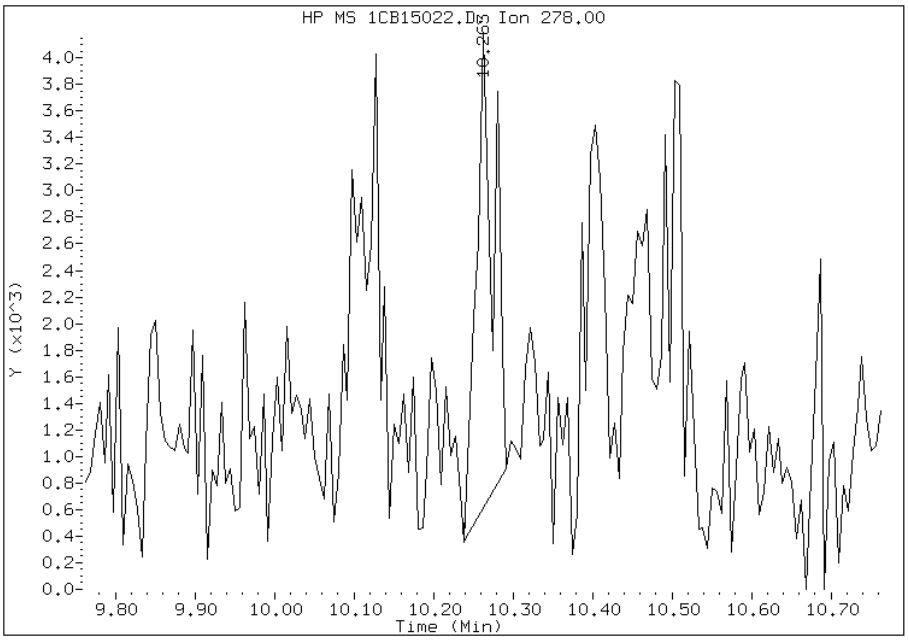
Manual Integration Results

RT: 10.26

Response: 5380

Amount: 0

Conc: 5



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15022.D
Inj. Date and Time: 15-FEB-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0005J-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

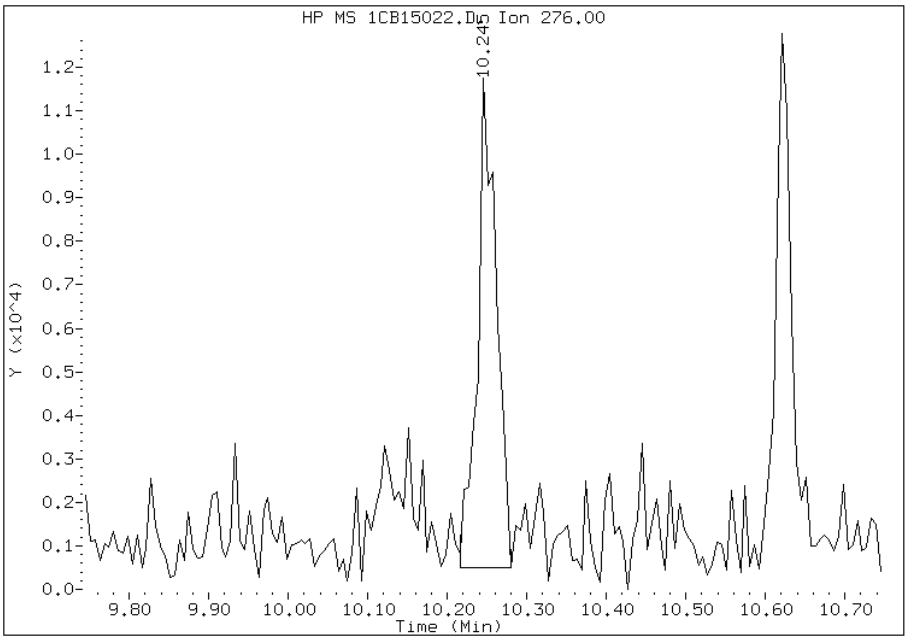
Processing Integration Results

RT: 10.25

Response: 18491

Amount: 0

Conc: 17



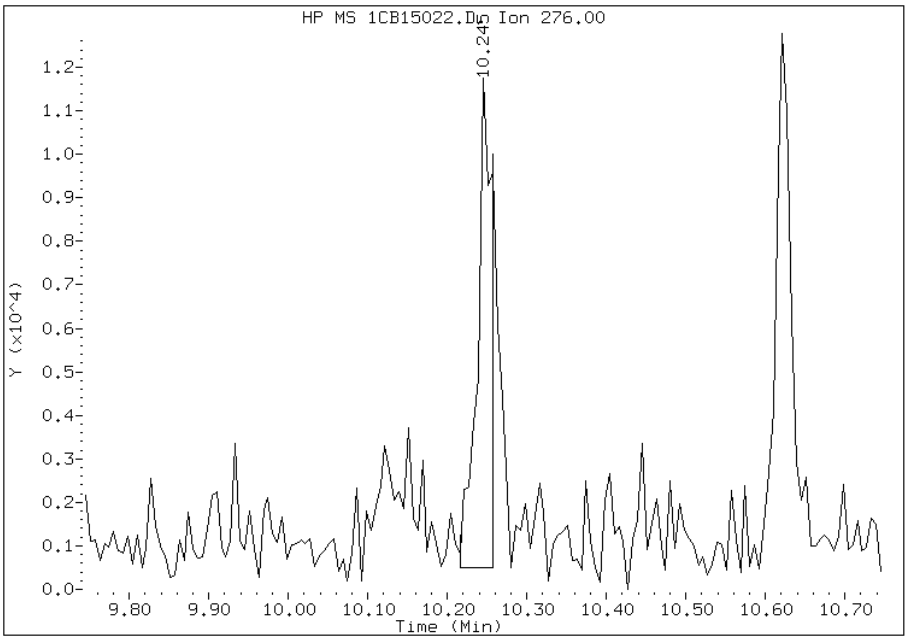
Manual Integration Results

RT: 10.25

Response: 14363

Amount: 0

Conc: 13



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005J-CSD | Lab Sample ID: 680-87318-15

Matrix: Solid | Lab File ID: 1CB15023.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 11:52

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 14.94(g) | Date Analyzed: 02/15/2013 17:55

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

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

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

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	8.5	J	41	5.2
120-12-7	Anthracene	16		8.7	4.3
56-55-3	Benzo[a]anthracene	60		8.3	4.0
50-32-8	Benzo[a]pyrene	59		11	5.4
205-99-2	Benzo[b]fluoranthene	110		13	6.3
191-24-2	Benzo[g,h,i]perylene	54		21	4.6
207-08-9	Benzo[k]fluoranthene	32		8.3	3.7
218-01-9	Chrysene	73		9.3	4.7
53-70-3	Dibenz(a,h)anthracene	16	J	21	4.2
206-44-0	Fluoranthene	120		21	4.1
86-73-7	Fluorene	5.6	J	21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	47		21	7.3
90-12-0	1-Methylnaphthalene	25	J	41	4.6
91-57-6	2-Methylnaphthalene	25	J	41	7.3
91-20-3	Naphthalene	27	J	41	4.6
85-01-8	Phenanthrene	73		8.3	4.0
129-00-0	Pyrene	110		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15023.D
Lab Smp Id: 680-87318-A-15-A Client Smp ID: CV0005J-CSD
Inj Date : 15-FEB-2013 17:55
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-15-a
Misc Info : 680-87318-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	2.923	% 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	3.821	3.821	(1.000)	2446125	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1892258	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3362915	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	299035	6.06877	418.4396
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3386823	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3160338	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	25498	0.39337	27.1228
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	15025	0.35649	24.5799
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	14071	0.36708	25.3101
5 Acenaphthylene	152	4.821	4.821	(0.982)	9319	0.12379	8.5351
9 Fluorene	166	5.245	5.245	(1.068)	4905	0.08093	5.5800
11 Phenanthrene	178	5.880	5.880	(1.003)	106847	1.06442	73.3911
12 Anthracene	178	5.910	5.910	(1.008)	21441	0.23707	16.3462
13 Carbazole	167	6.015	6.015	(1.026)	14265	0.18159	12.5202

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	164251	1.67456	115.4604
16 Pyrene	202	6.886	6.886	(0.882)	148765	1.64991	113.7607
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	81657	0.87431	60.2831
19 Chrysene	228	7.833	7.833	(1.003)	102260	1.05998	73.0852
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	119534	1.54275	106.3719(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	39001	0.45691	31.5036(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	63354	0.85930	59.2482
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	48174	0.68029	46.9057(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	15124	0.22648	15.6156(M)
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	56135	0.78038	53.8070(M)

QC Flag Legend

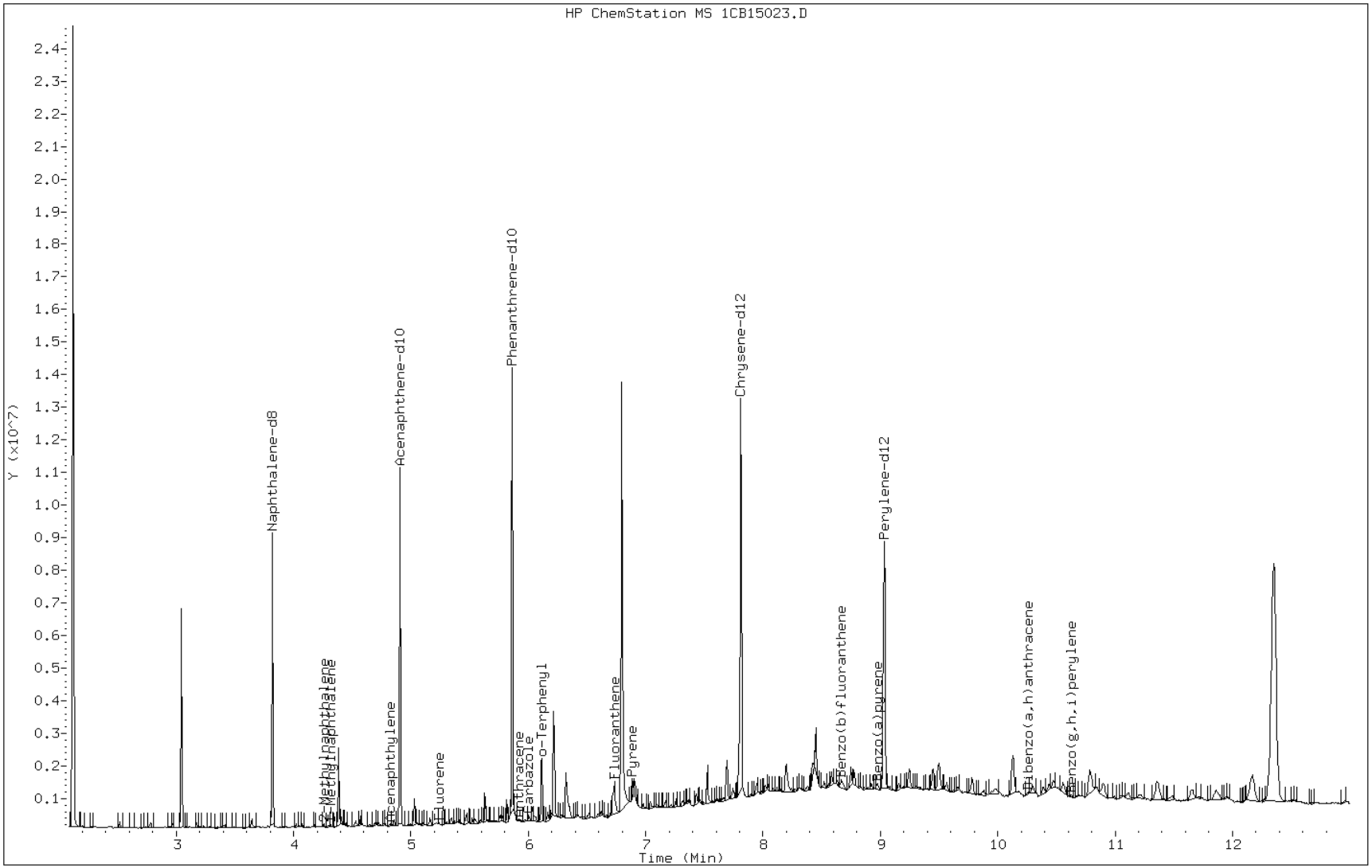
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC



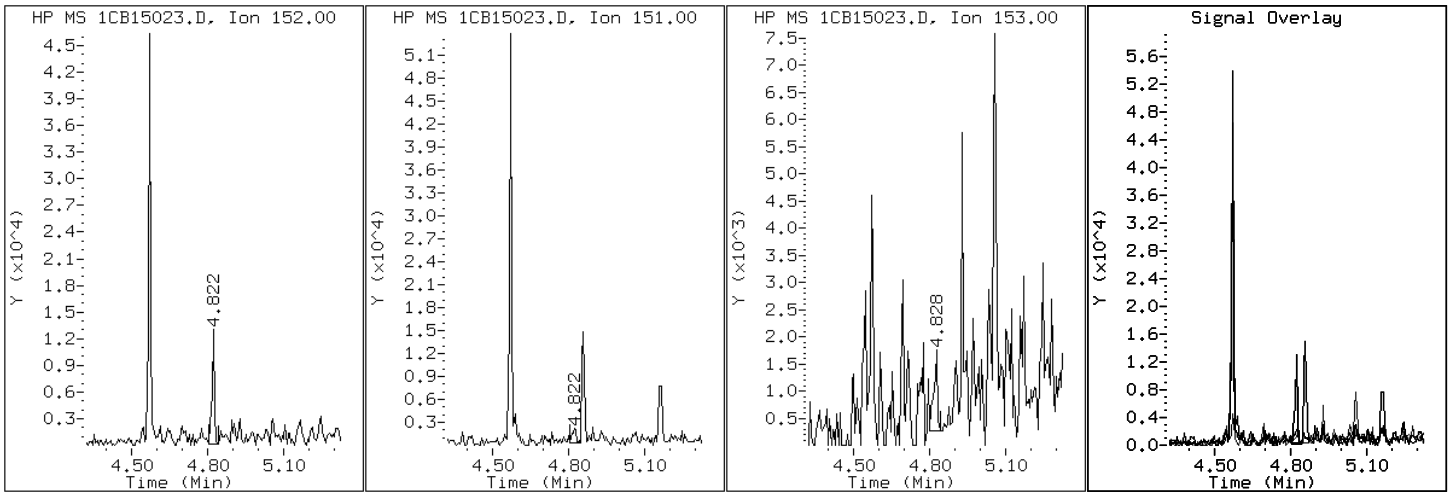
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

5 Acenaphthylene



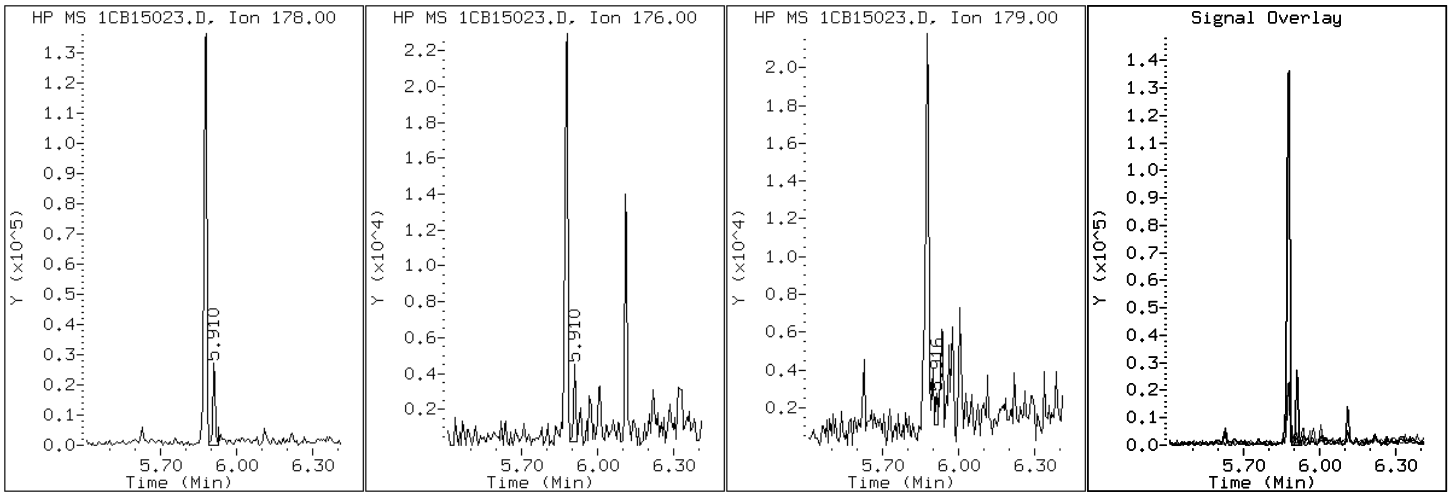
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

12 Anthracene



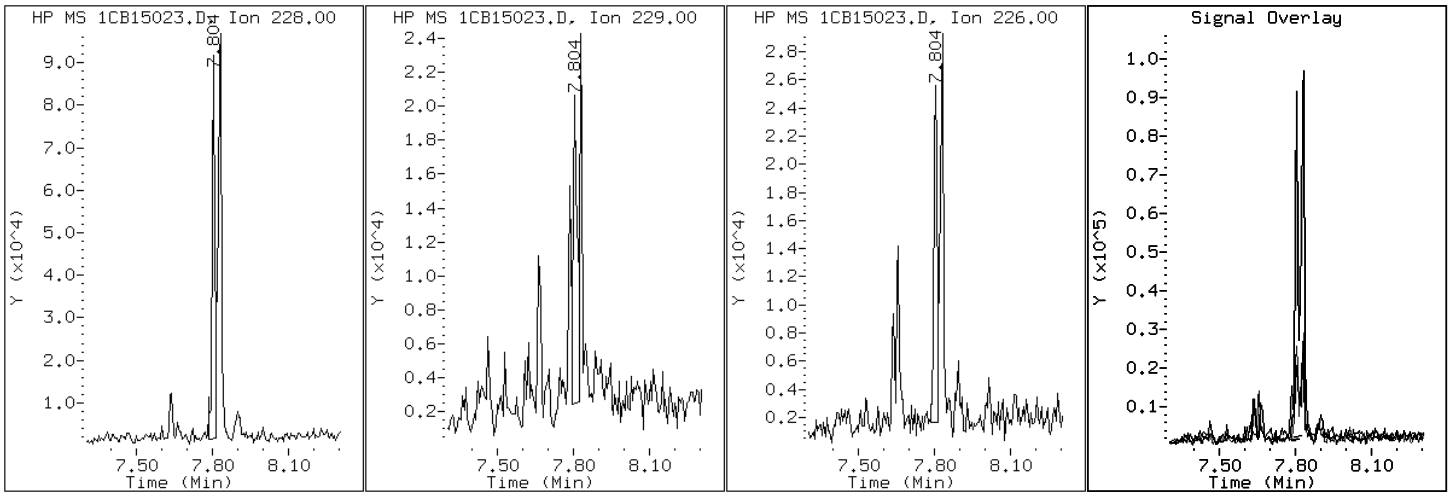
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

17 Benzo(a)anthracene



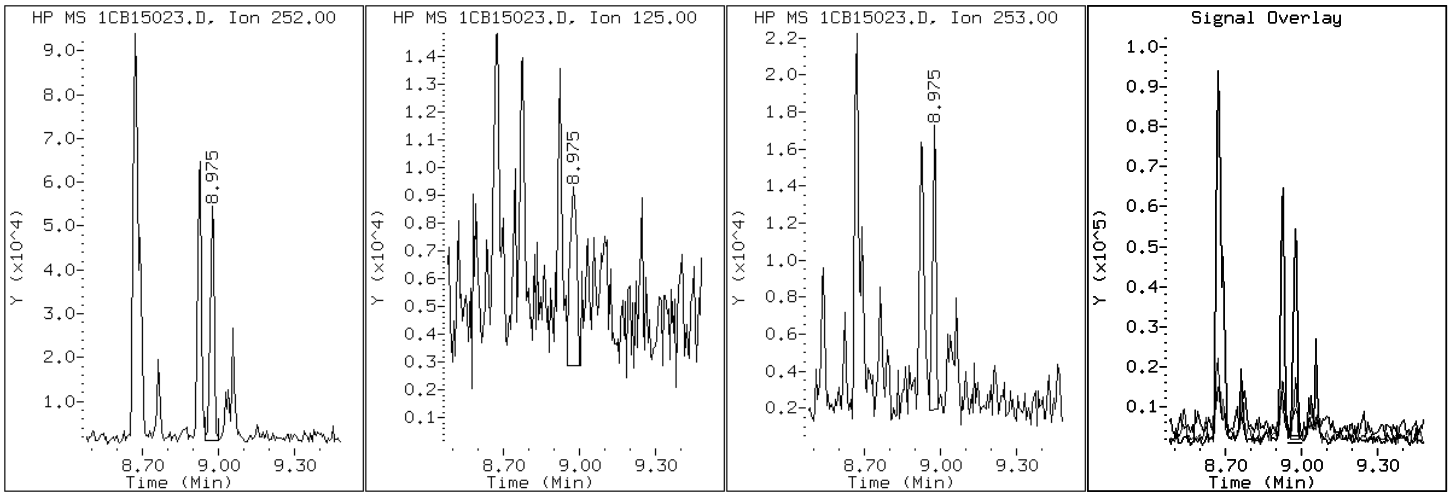
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

22 Benzo(a)pyrene



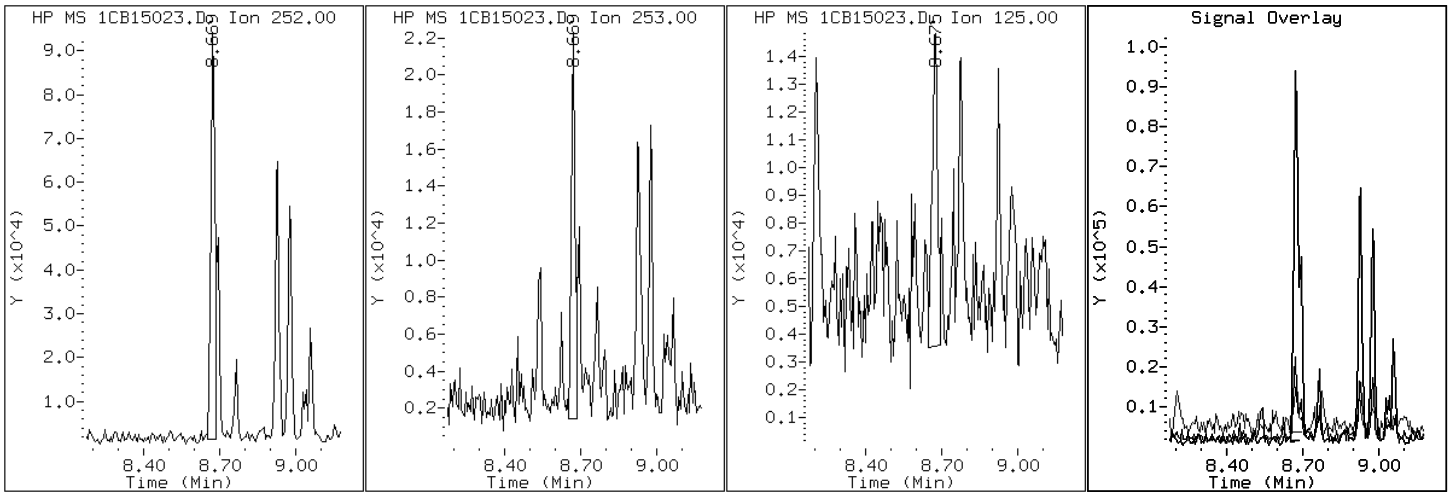
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

20 Benzo(b)fluoranthene



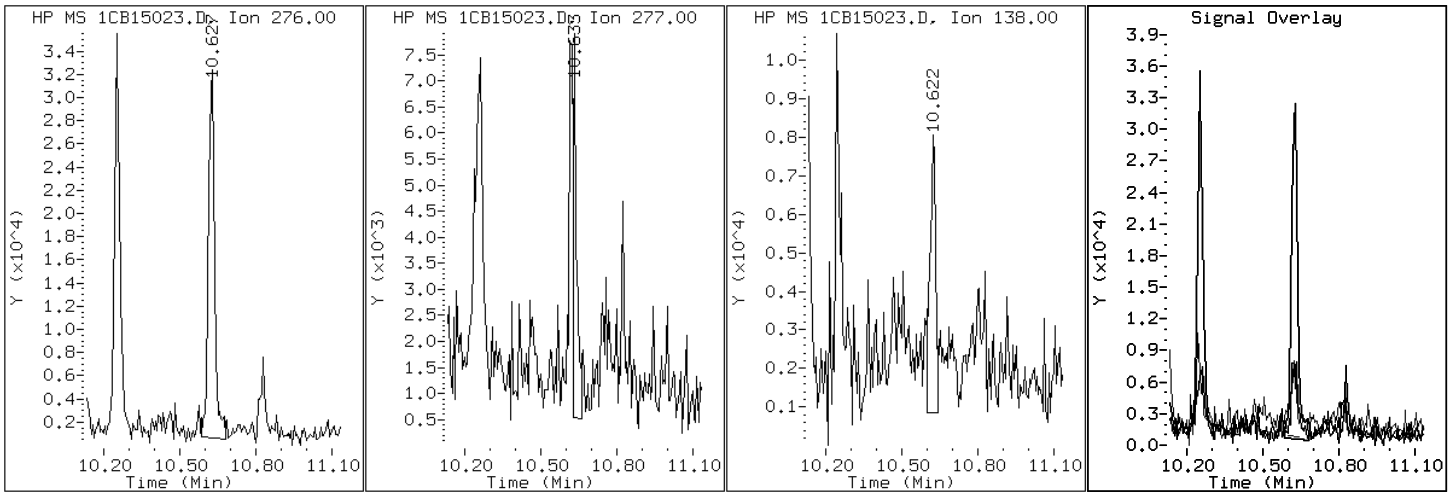
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

26 Benzo(g,h,i)perylene



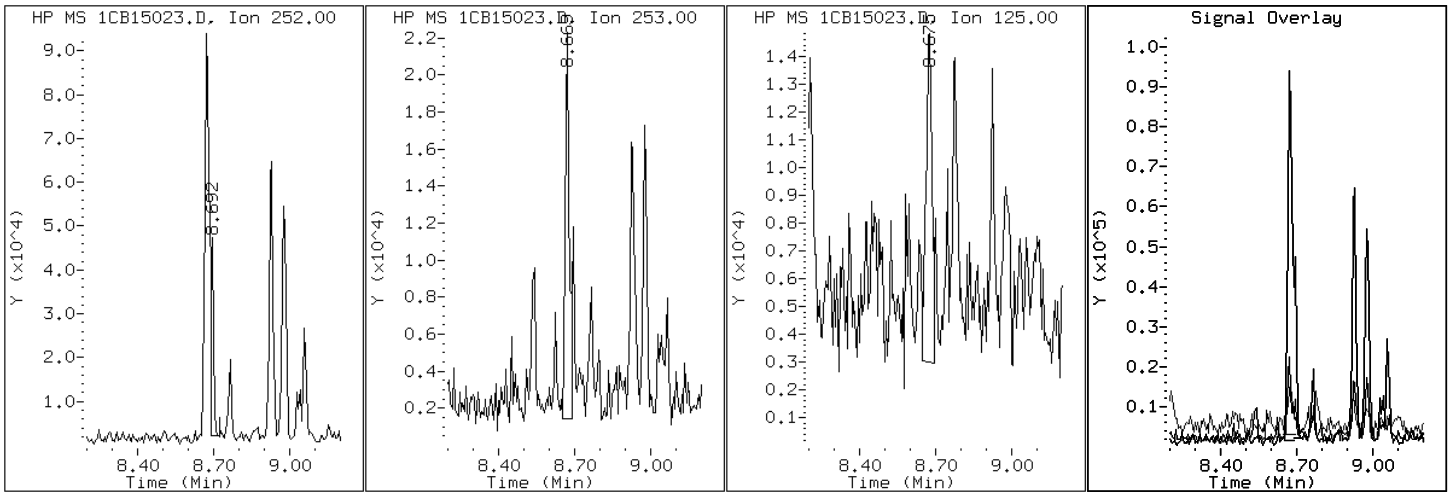
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

21 Benzo(k)fluoranthene



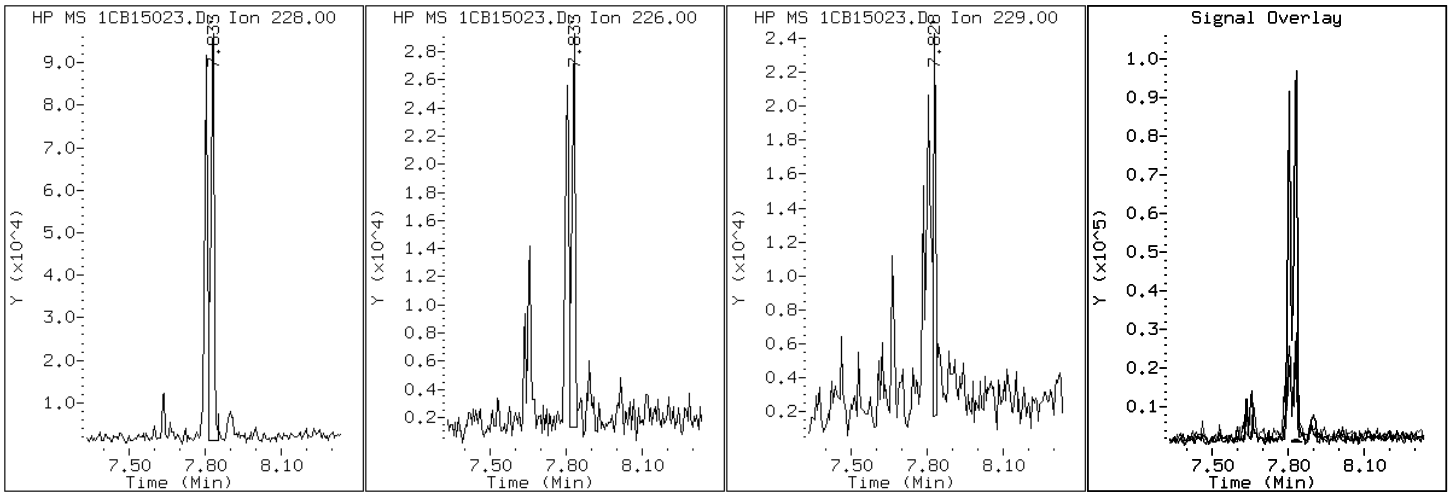
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

19 Chrysene



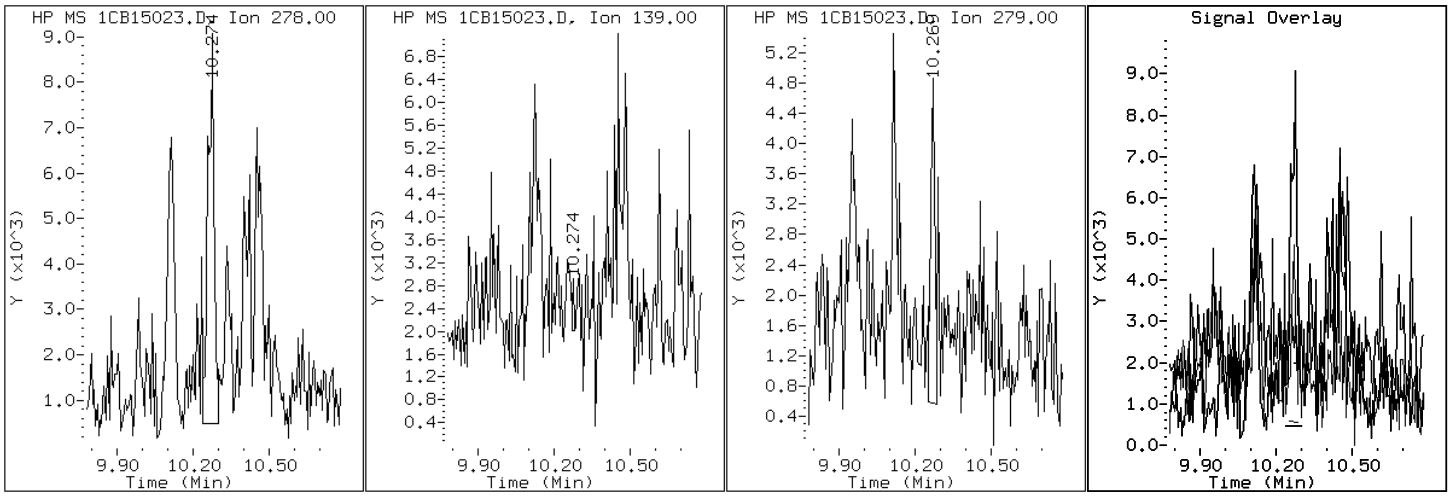
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

25 Dibenzo(a,h)anthracene



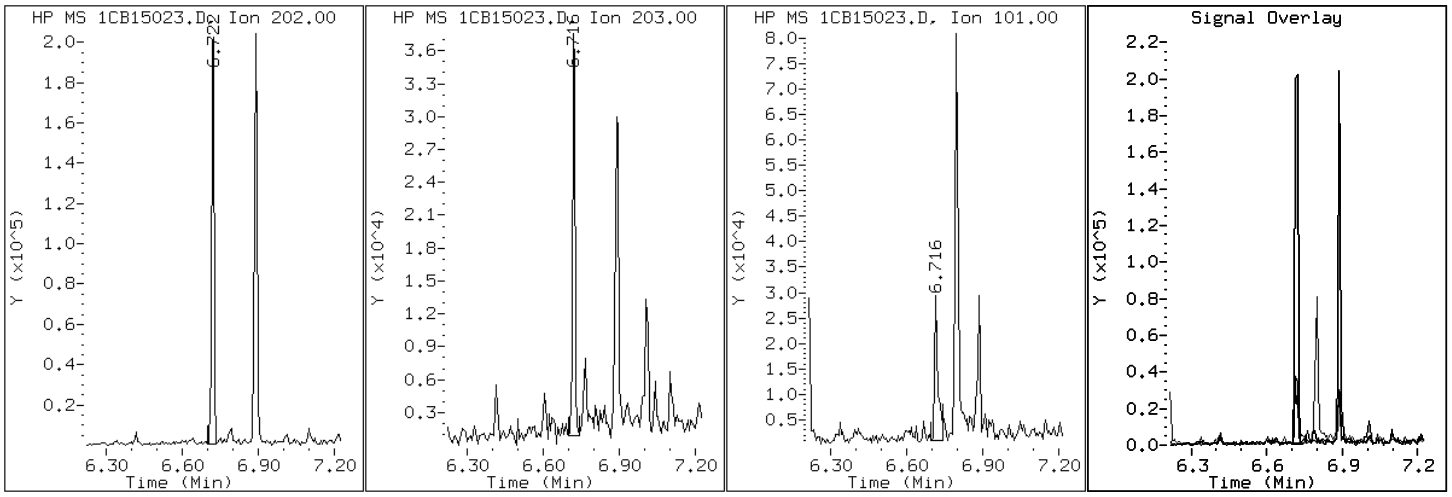
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

15 Fluoranthene



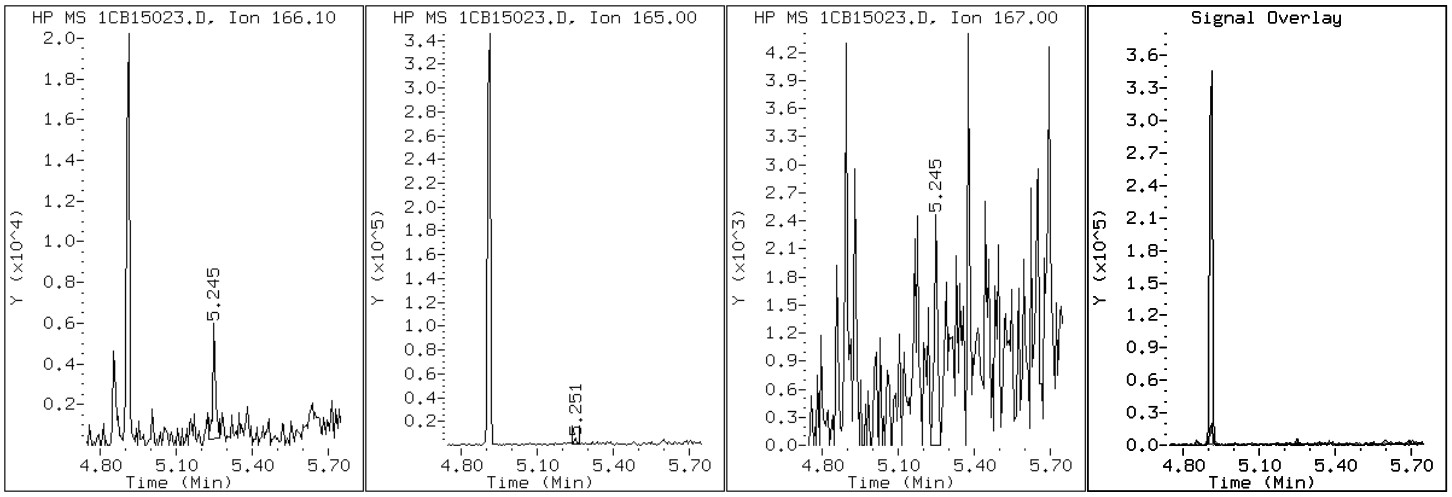
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

9 Fluorene



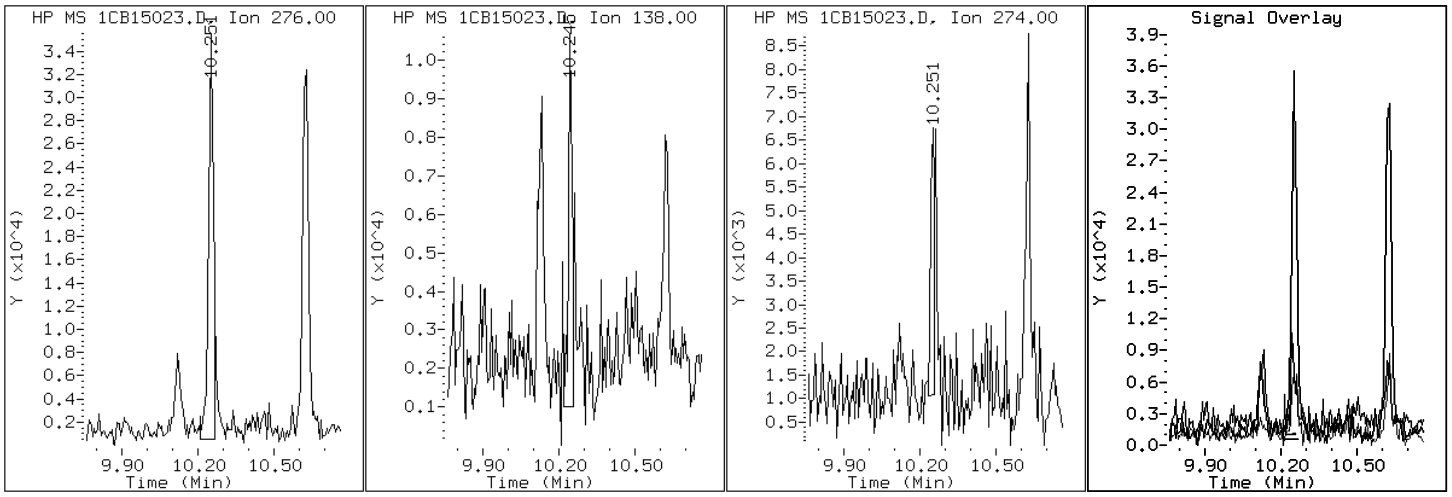
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

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



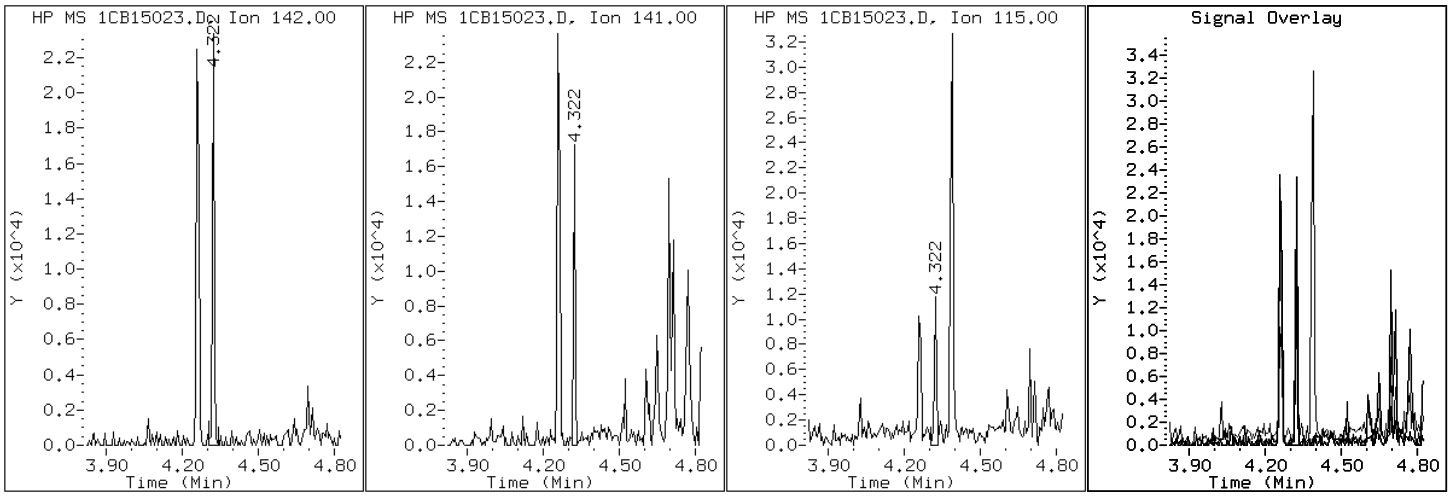
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

4 1-Methylnaphthalene



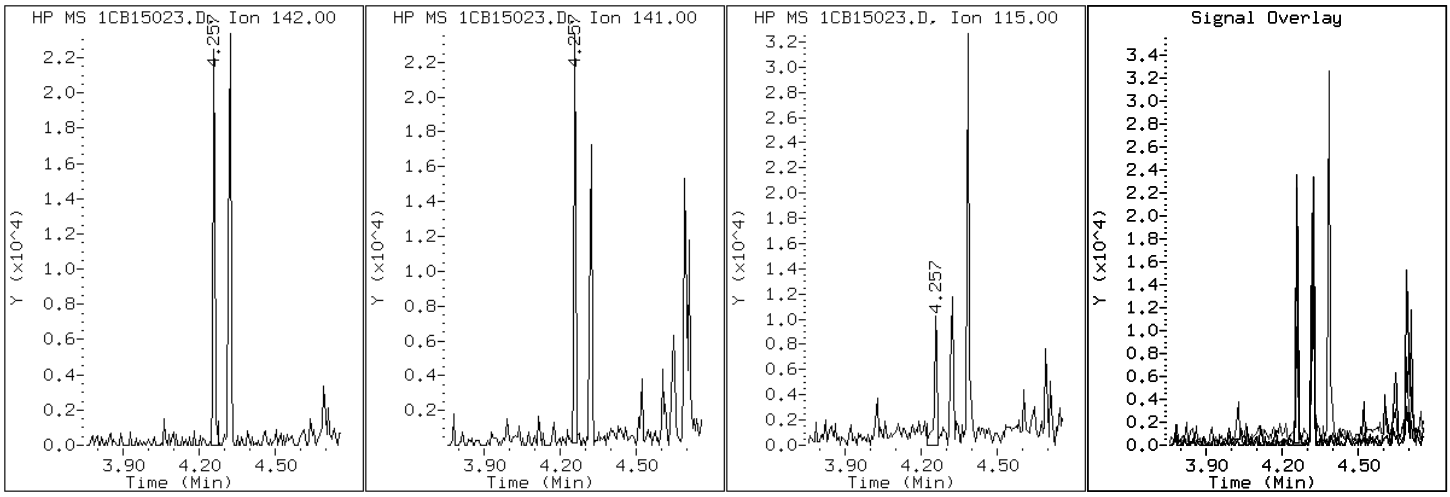
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

3 2-Methylnaphthalene



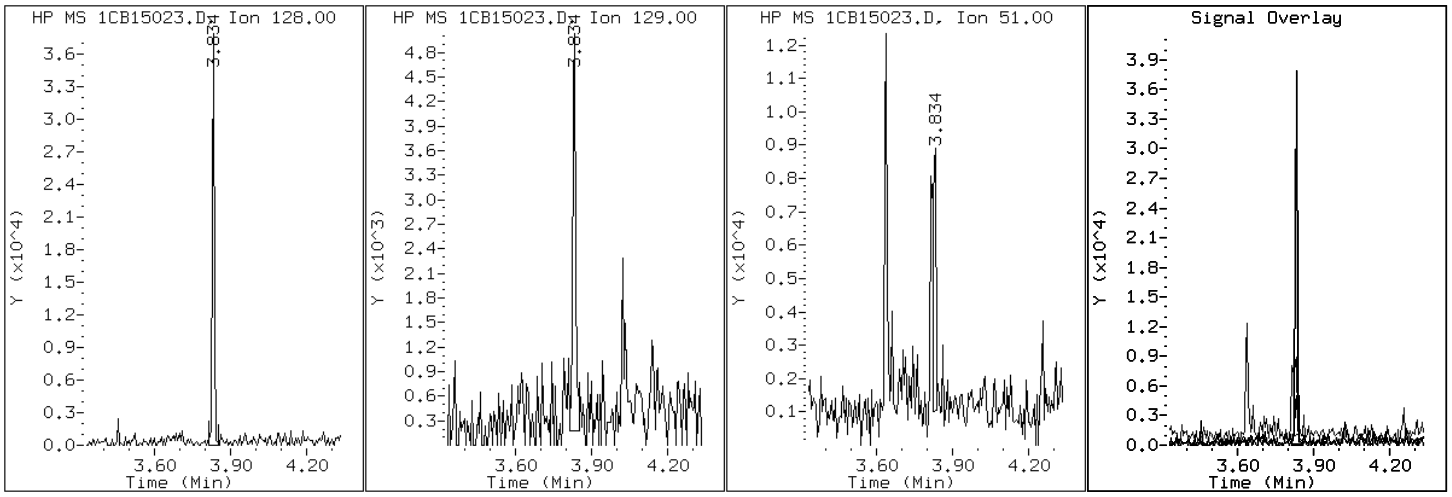
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

2 Naphthalene



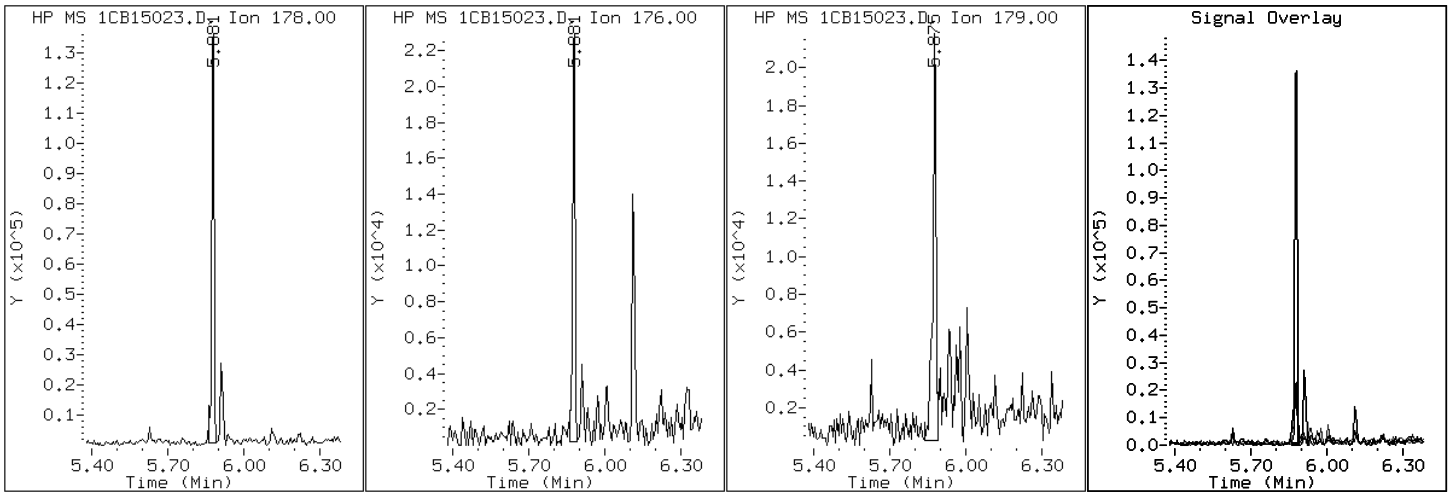
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

11 Phenanthrene



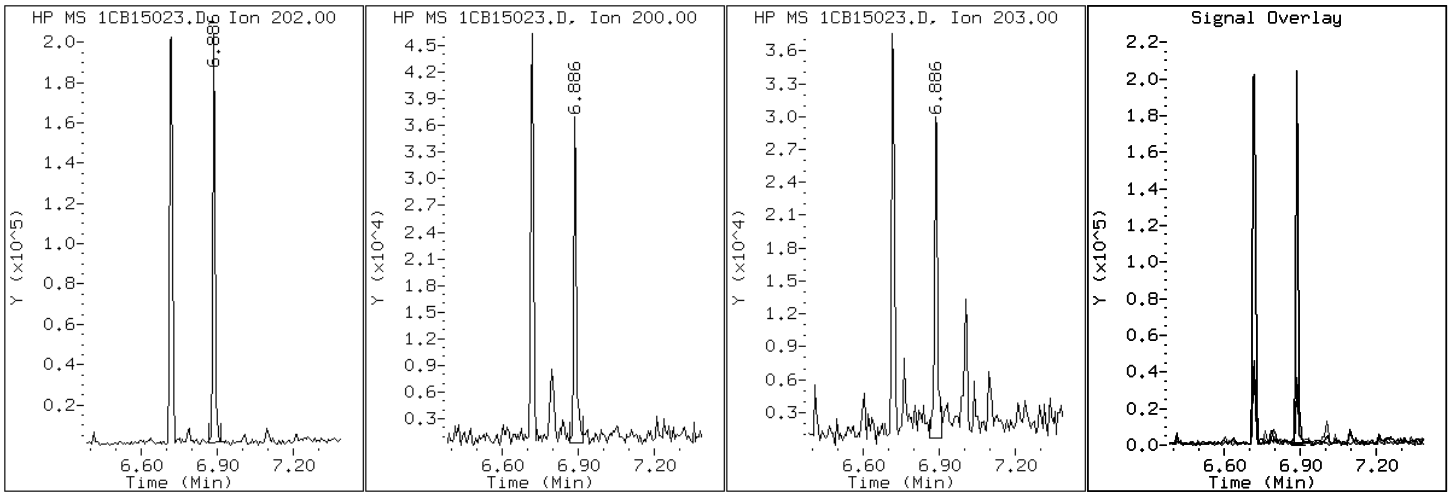
Data File: 1CB15023.D

Date: 15-FEB-2013 17:55

Client ID: CV0005J-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-15-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15023.D
Inj. Date and Time: 15-FEB-2013 17:55
Instrument ID: BSMC5973.i
Client ID: CV0005J-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

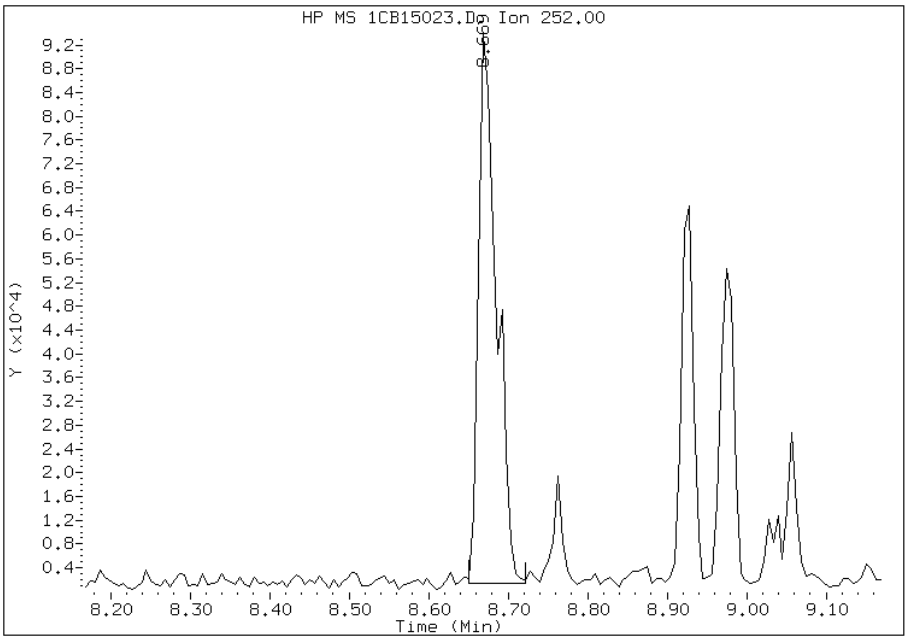
Processing Integration Results

RT: 8.67

Response: 147048

Amount: 2

Conc: 131



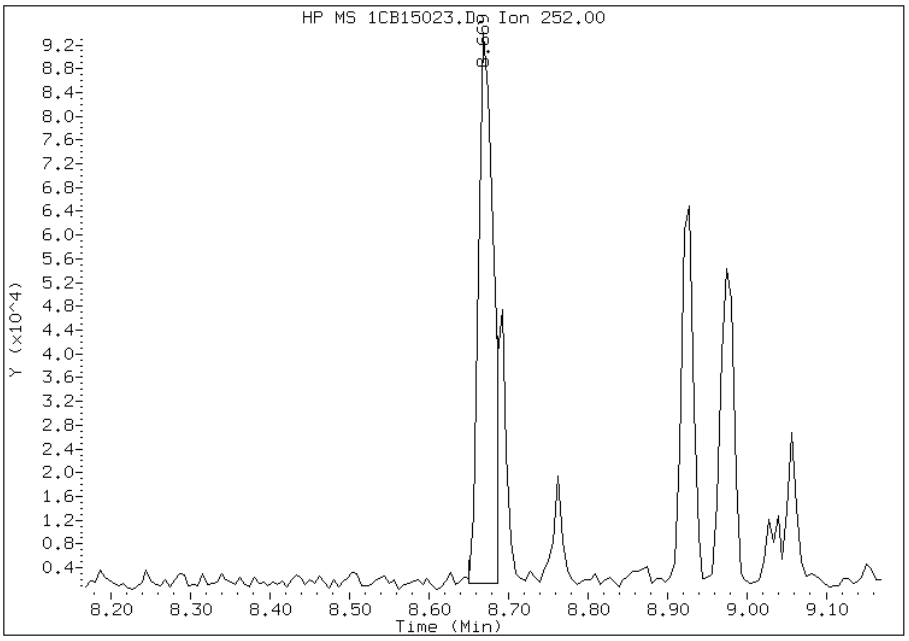
Manual Integration Results

RT: 8.67

Response: 119534

Amount: 2

Conc: 106



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:07
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15023.D
Inj. Date and Time: 15-FEB-2013 17:55
Instrument ID: BSMC5973.i
Client ID: CV0005J-CSD
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/19/2013

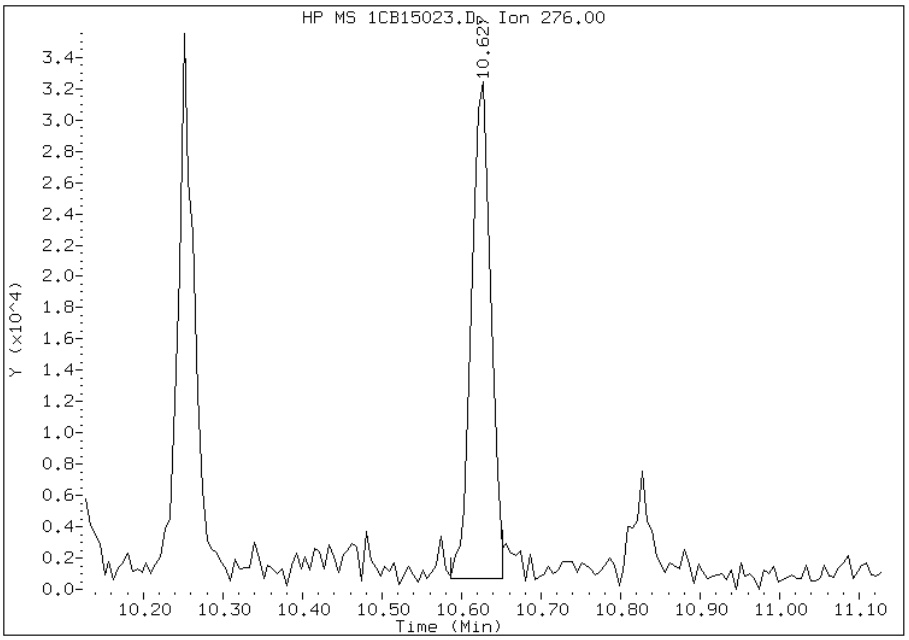
Processing Integration Results

RT: 10.63

Response: 53005

Amount: 1

Conc: 51



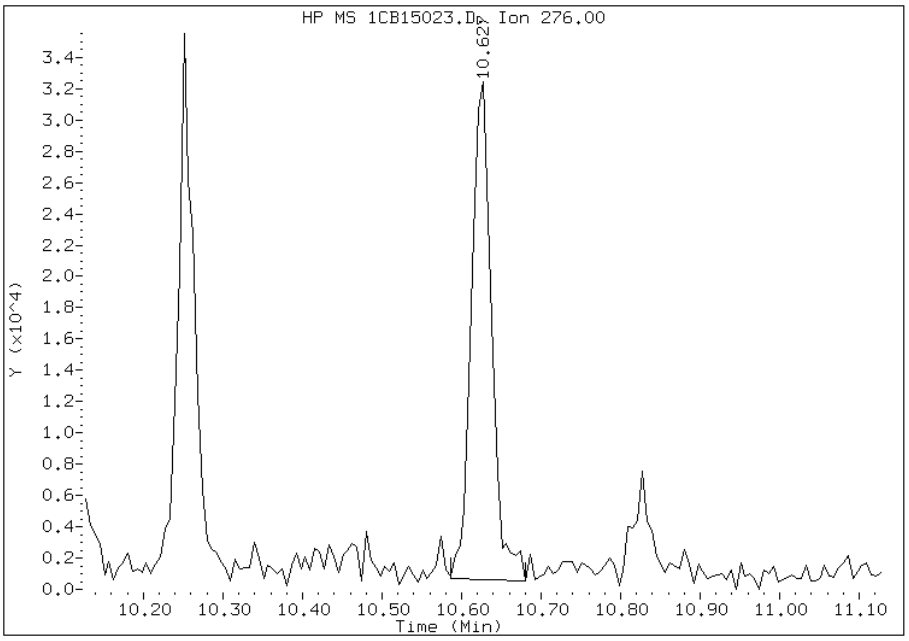
Manual Integration Results

RT: 10.63

Response: 56135

Amount: 1

Conc: 54



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15023.D
Inj. Date and Time: 15-FEB-2013 17:55
Instrument ID: BSMC5973.i
Client ID: CV0005J-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

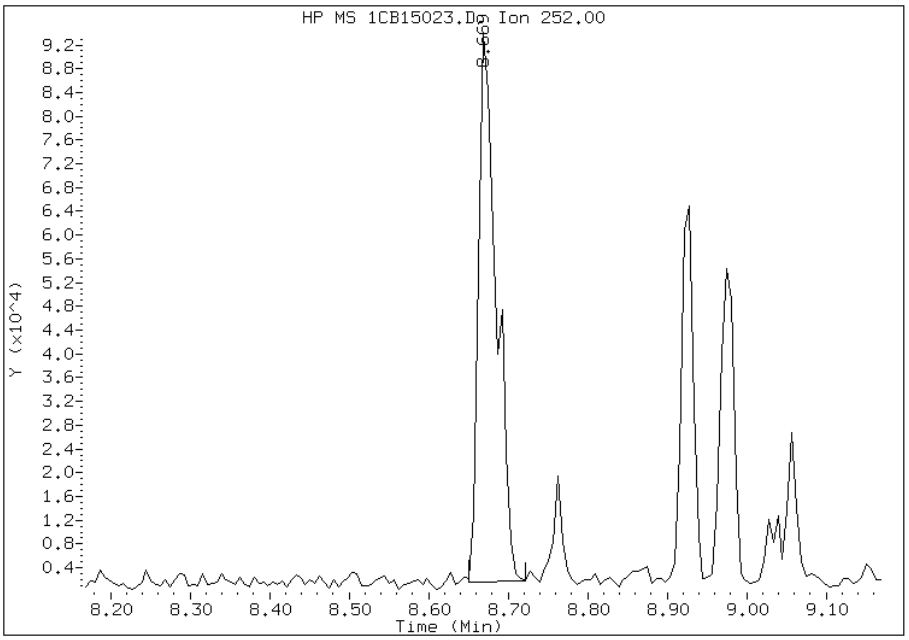
Processing Integration Results

RT: 8.67

Response: 145351

Amount: 2

Conc: 117



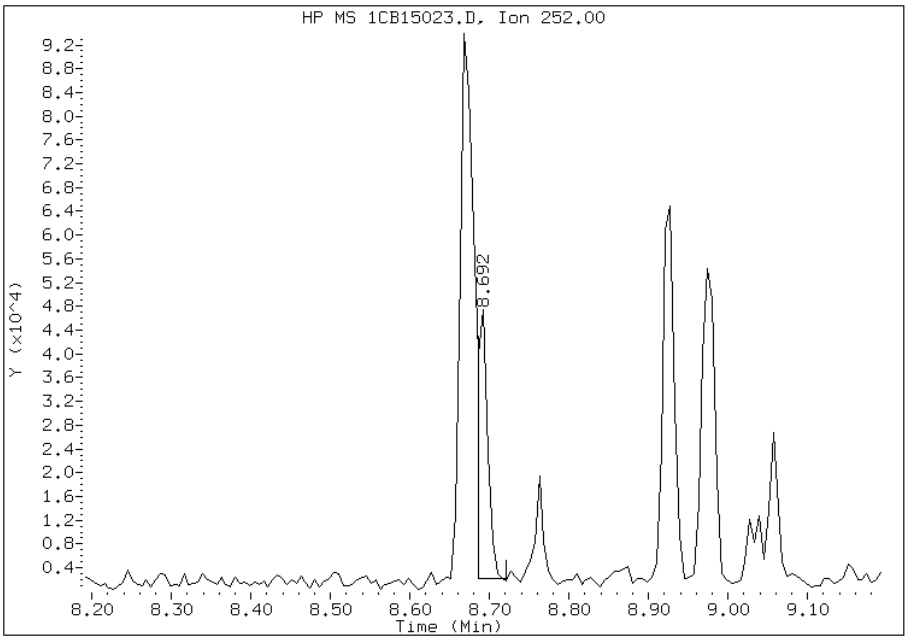
Manual Integration Results

RT: 8.69

Response: 39001

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15023.D
Inj. Date and Time: 15-FEB-2013 17:55
Instrument ID: BSMC5973.i
Client ID: CV0005J-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/19/2013

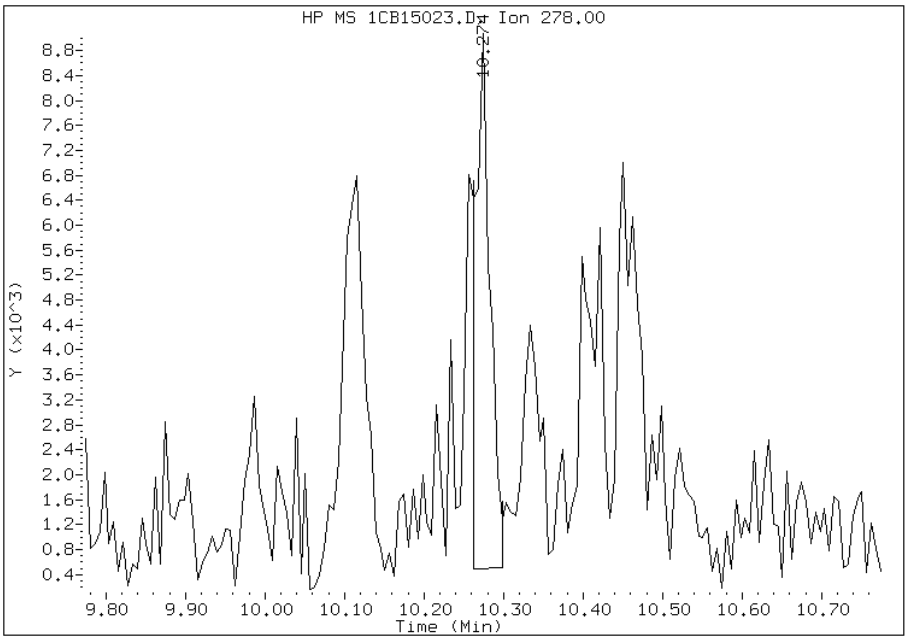
Processing Integration Results

RT: 10.27

Response: 11141

Amount: 0

Conc: 12



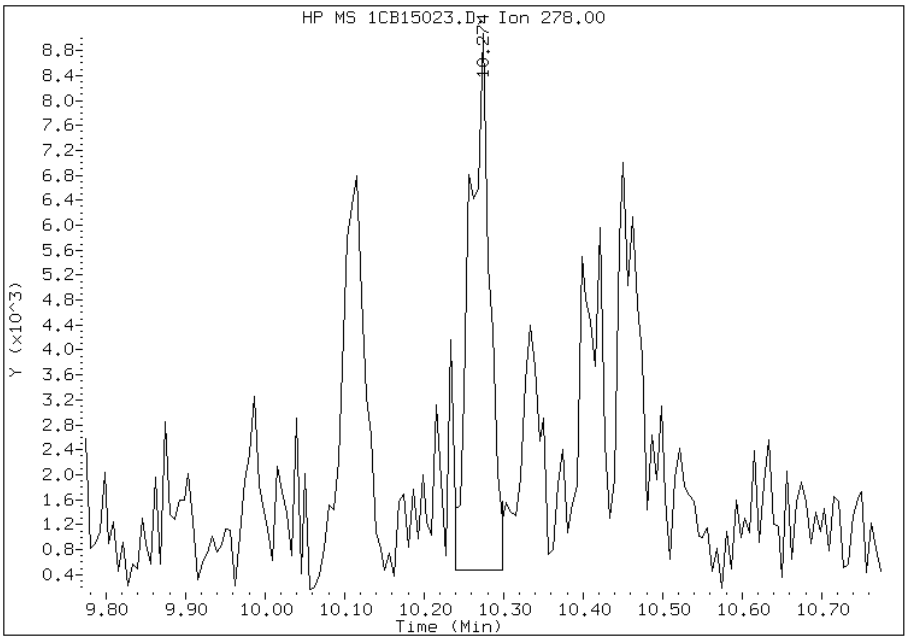
Manual Integration Results

RT: 10.27

Response: 15124

Amount: 0

Conc: 16



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15023.D
Inj. Date and Time: 15-FEB-2013 17:55
Instrument ID: BSMC5973.i
Client ID: CV0005J-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

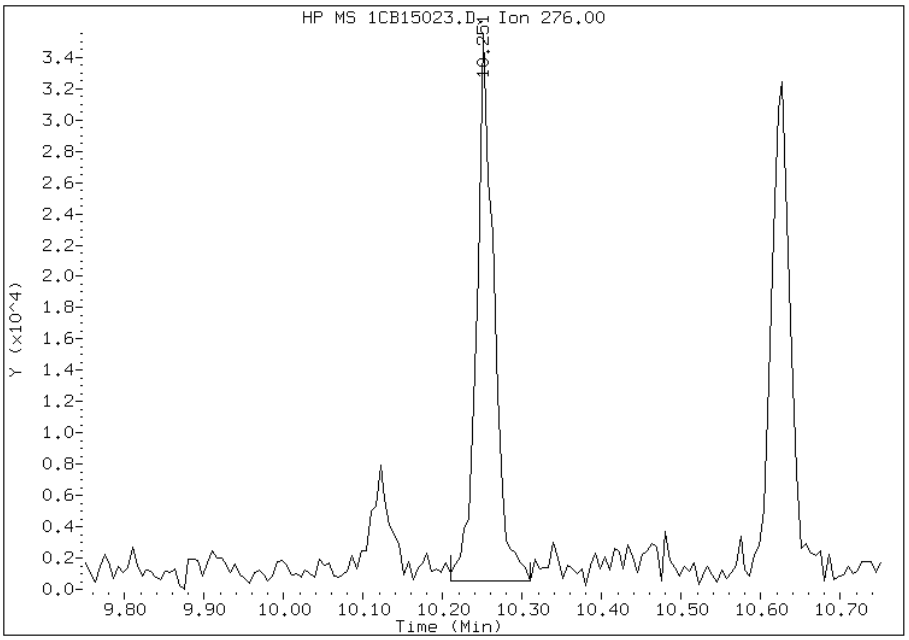
Processing Integration Results

RT: 10.25

Response: 53211

Amount: 1

Conc: 52



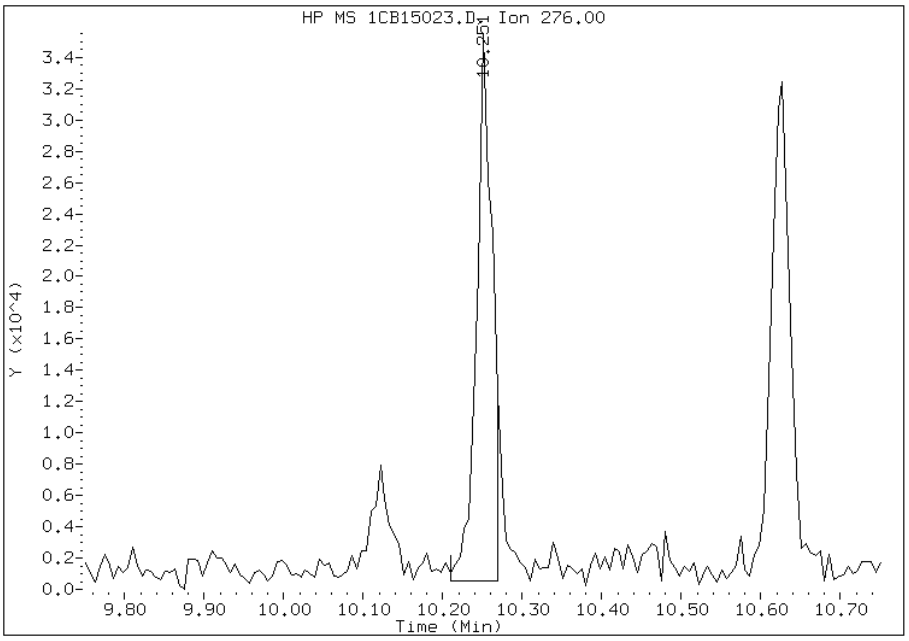
Manual Integration Results

RT: 10.25

Response: 48174

Amount: 1

Conc: 47



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005K-CS | Lab Sample ID: 680-87318-16

Matrix: Solid | Lab File ID: 1CB15024.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 11:55

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 14.97(g) | Date Analyzed: 02/15/2013 18:13

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

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

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

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	17	J	41	5.2
120-12-7	Anthracene	33		8.7	4.4
56-55-3	Benzo[a]anthracene	160		8.3	4.0
50-32-8	Benzo[a]pyrene	150		11	5.4
205-99-2	Benzo[b]fluoranthene	260		13	6.3
191-24-2	Benzo[g,h,i]perylene	110		21	4.6
207-08-9	Benzo[k]fluoranthene	86		8.3	3.7
218-01-9	Chrysene	170		9.3	4.7
53-70-3	Dibenz(a,h)anthracene	35		21	4.3
206-44-0	Fluoranthene	320		21	4.1
86-73-7	Fluorene	16	J	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	86		21	7.4
90-12-0	1-Methylnaphthalene	80		41	4.6
91-57-6	2-Methylnaphthalene	83		41	7.4
91-20-3	Naphthalene	47		41	4.6
85-01-8	Phenanthrene	190		8.3	4.0
129-00-0	Pyrene	280		21	3.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15024.D
Lab Smp Id: 680-87318-A-16-A Client Smp ID: CV0005K-CS
Inj Date : 15-FEB-2013 18:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-16-a
Misc Info : 680-87318-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	3.373	% 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	3.822	3.821	(1.000)	2471486	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1883656	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3423953	40.0000	
$ 14 o-Terphenyl	230	6.116	6.115	(1.043)	331444	6.60659	456.7293
* 18 Chrysene-d12	240	7.810	7.815	(1.000)	3479238	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3164045	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	44792	0.68394	47.2824
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	50979	1.19714	82.7613
4 1-Methylnaphthalene	142	4.322	4.321	(1.131)	44963	1.16095	80.2593
5 Acenaphthylene	152	4.822	4.821	(0.982)	18352	0.24489	16.9298
9 Fluorene	166	5.245	5.245	(1.068)	13961	0.23140	15.9971
11 Phenanthrene	178	5.874	5.880	(1.002)	285793	2.79634	193.3175
12 Anthracene	178	5.910	5.910	(1.008)	43351	0.47079	32.5468
13 Carbazole	167	6.016	6.015	(1.026)	36712	0.45899	31.7313

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.716	6.721	(1.145)	457198	4.57811	316.4955
16 Pyrene	202	6.886	6.886	(0.882)	371939	4.01550	277.6013
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	217152	2.26330	156.4675
19 Chrysene	228	7.833	7.833	(1.003)	240582	2.42753	167.8207
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	296892	3.82731	264.5909(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	106228	1.24303	85.9339(M)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	158636	2.14913	148.5743
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	88030	1.24166	85.8391(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	33383	0.49932	34.5191
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	115368	1.60195	110.7468

QC Flag Legend

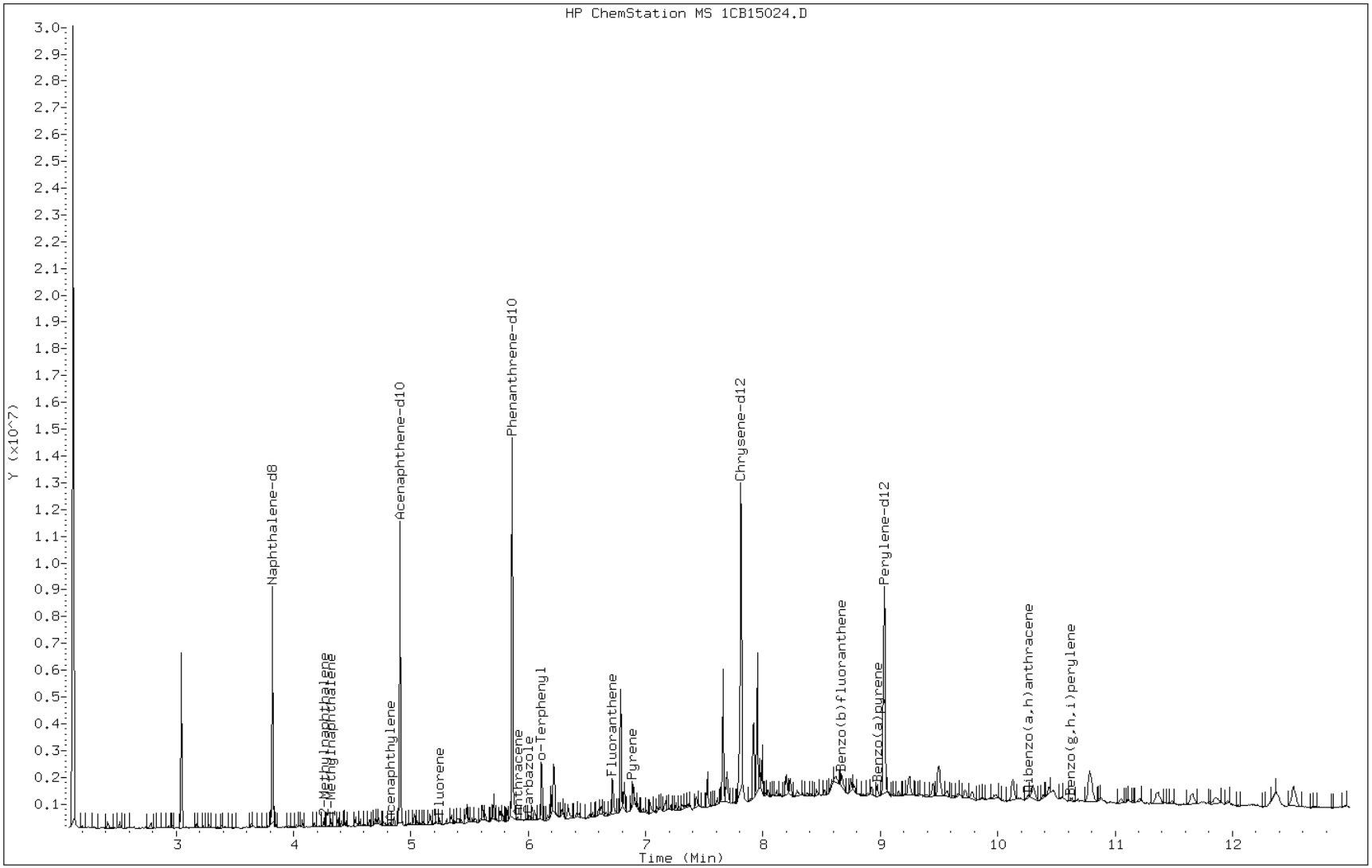
M - Compound response manually integrated.

Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS | Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a | Operator: SCC



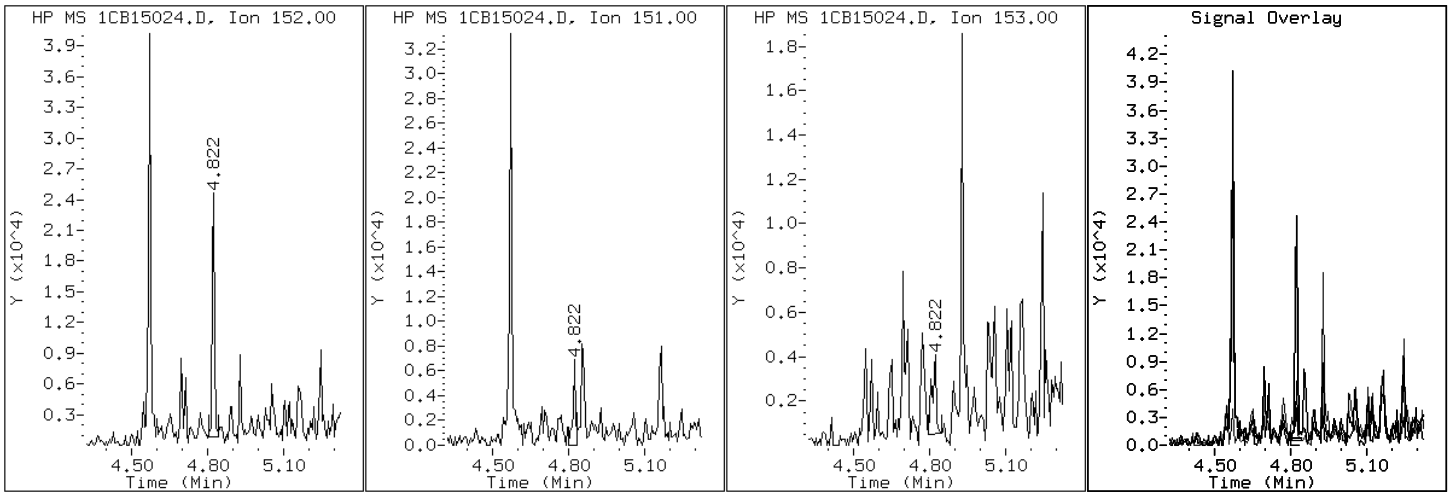
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

5 Acenaphthylene



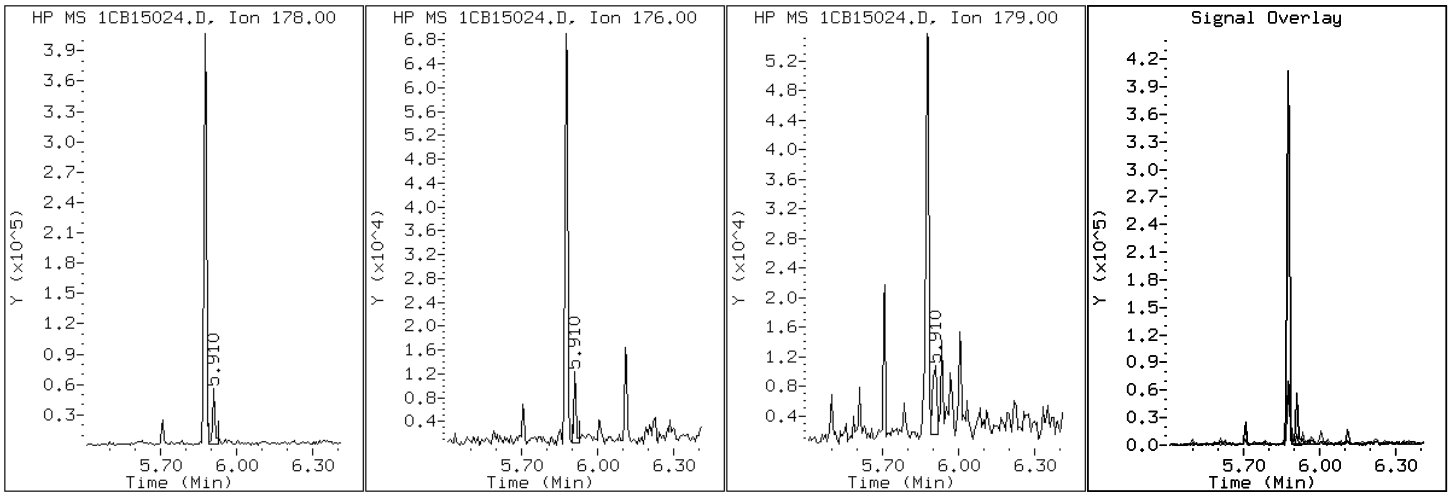
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

12 Anthracene



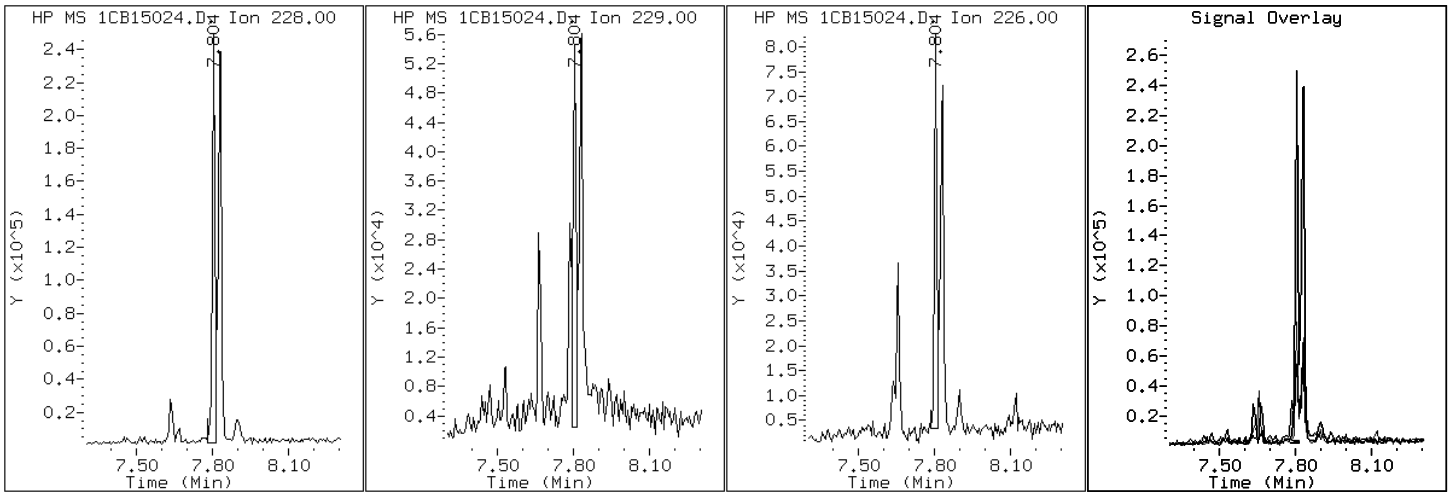
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

17 Benzo(a)anthracene



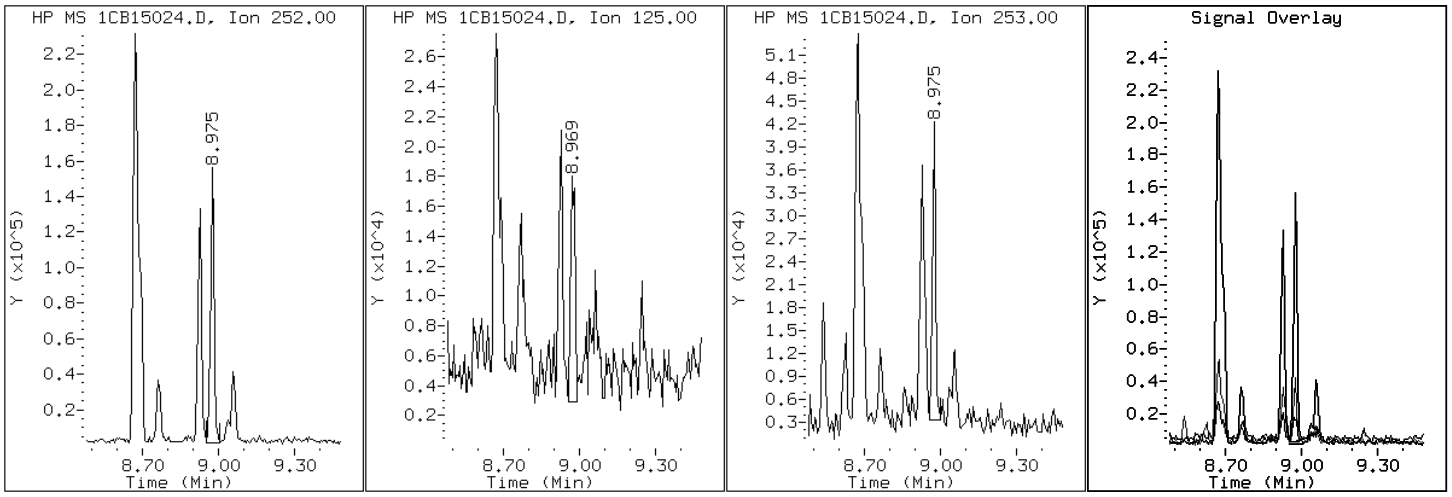
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

22 Benzo(a)pyrene



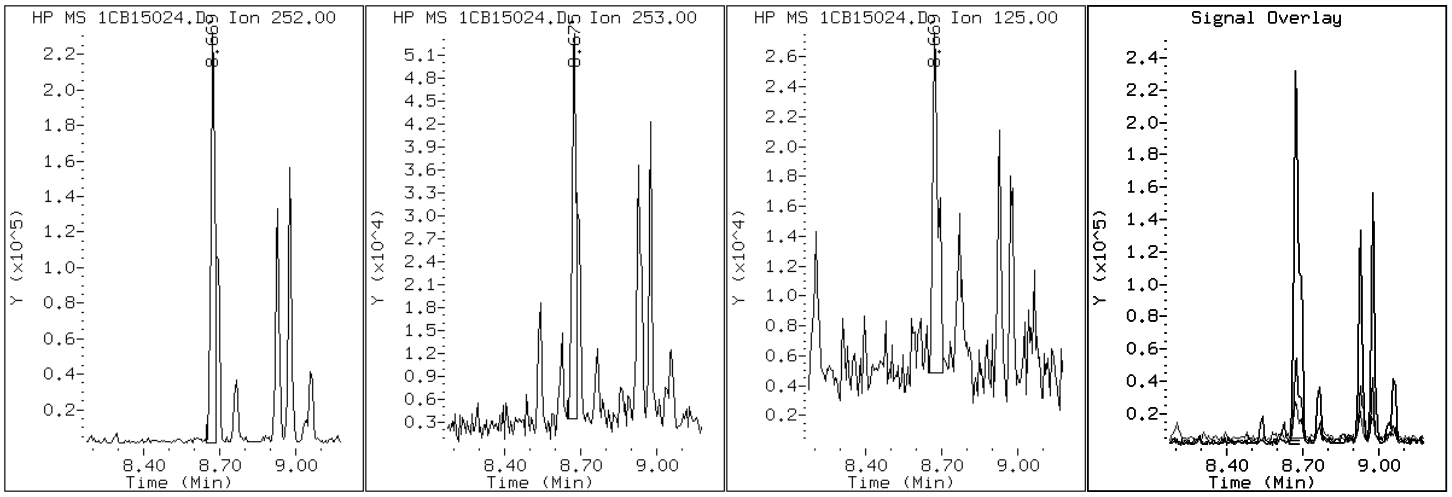
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

20 Benzo(b)fluoranthene



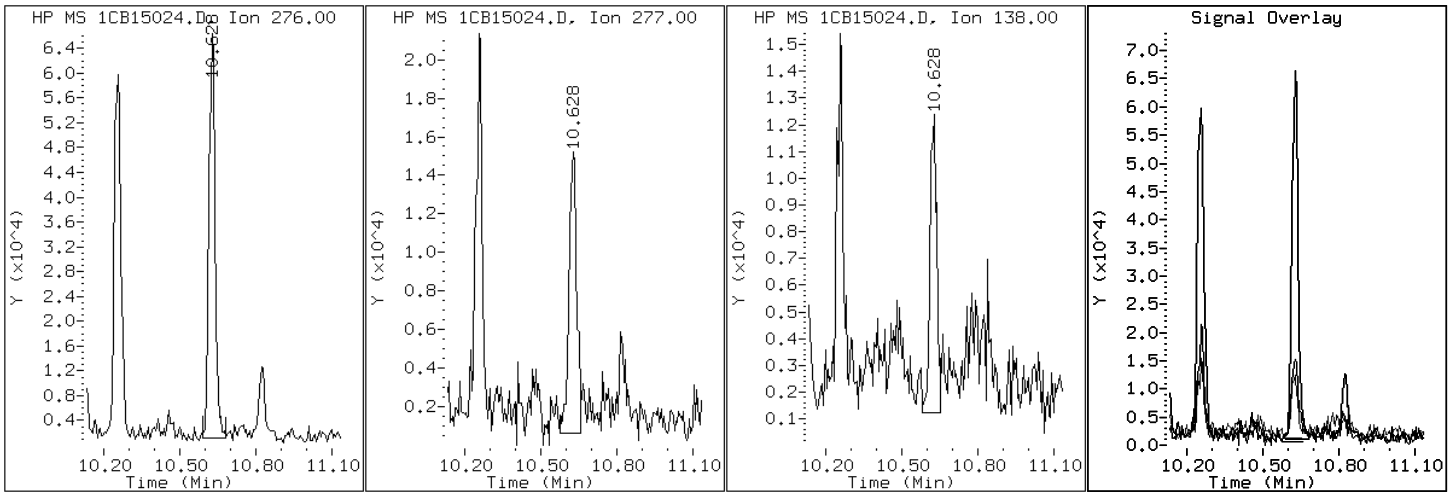
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

26 Benzo(g,h,i)perylene



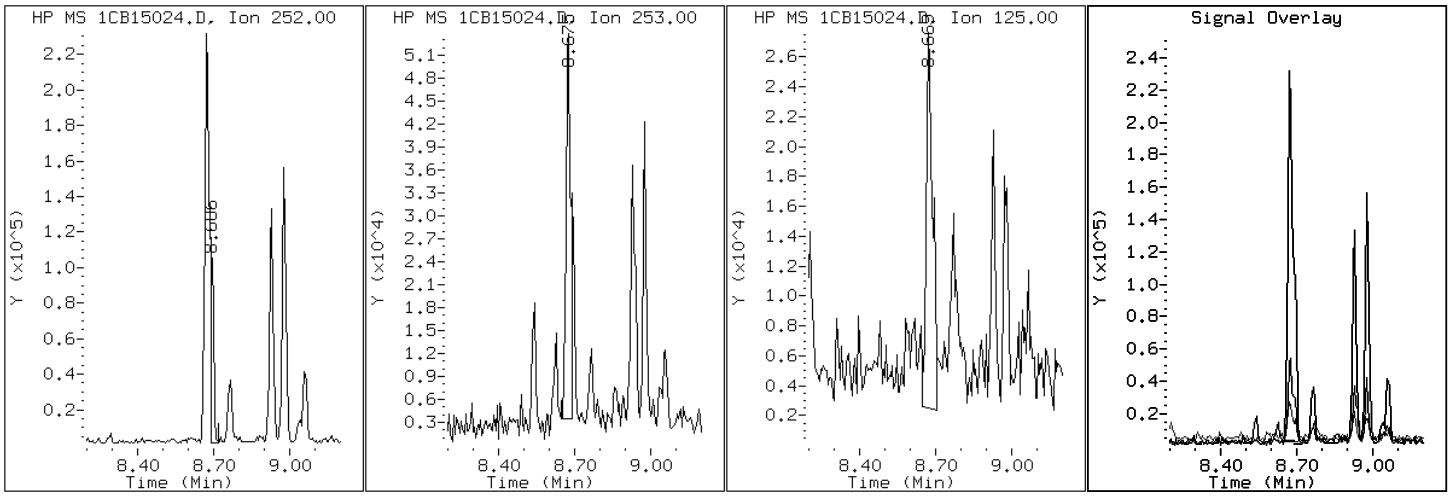
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

21 Benzo(k)fluoranthene



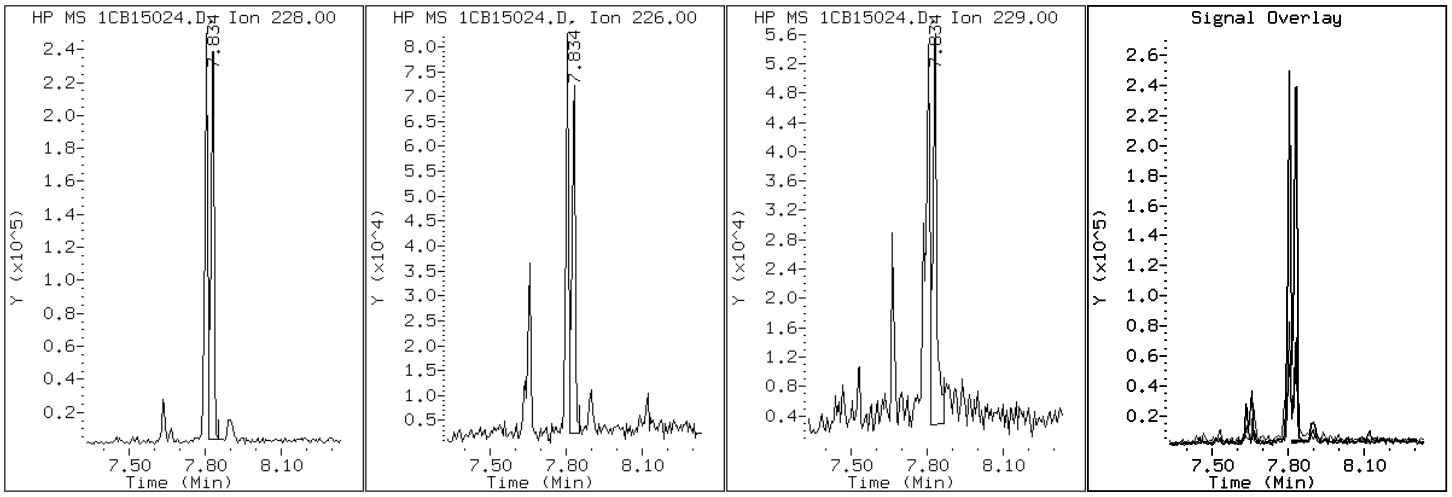
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

19 Chrysene



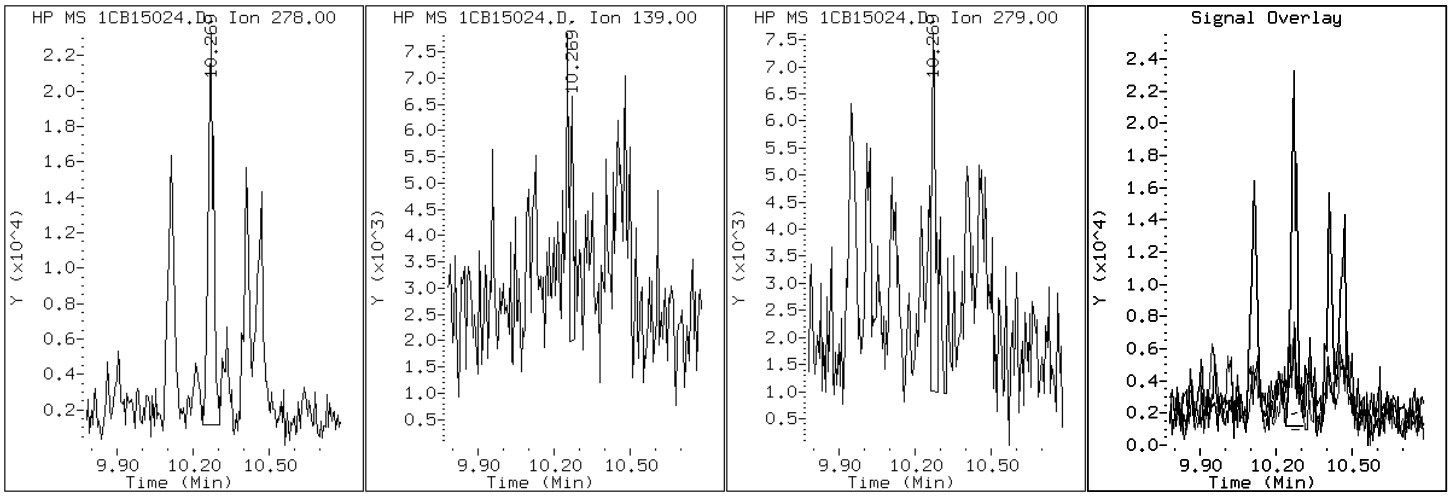
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

25 Dibenzo(a,h)anthracene



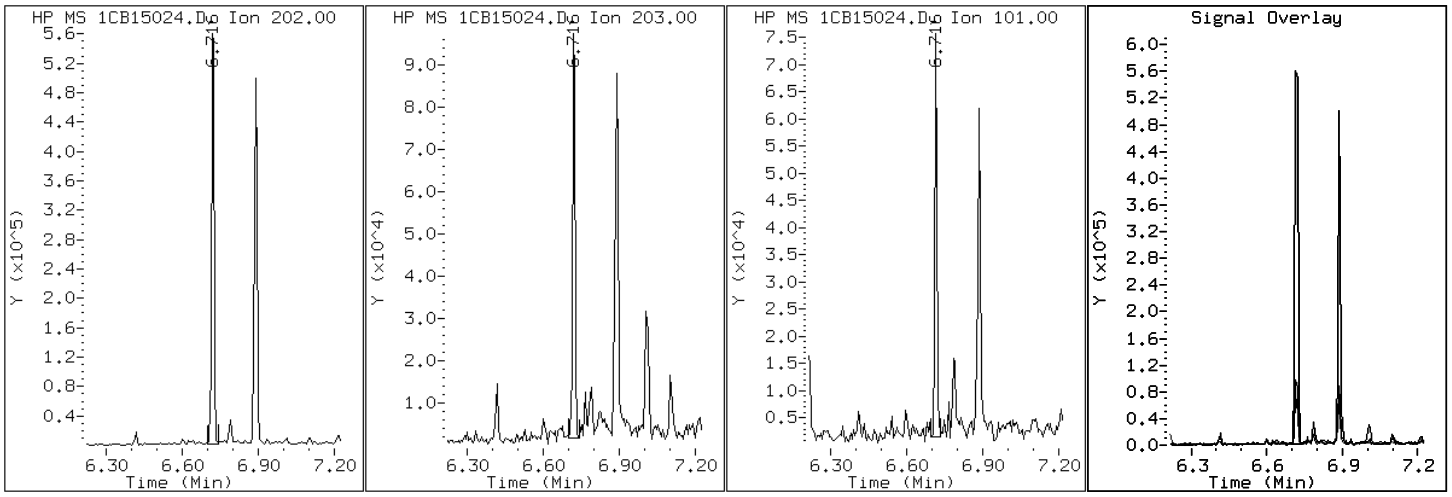
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

15 Fluoranthene



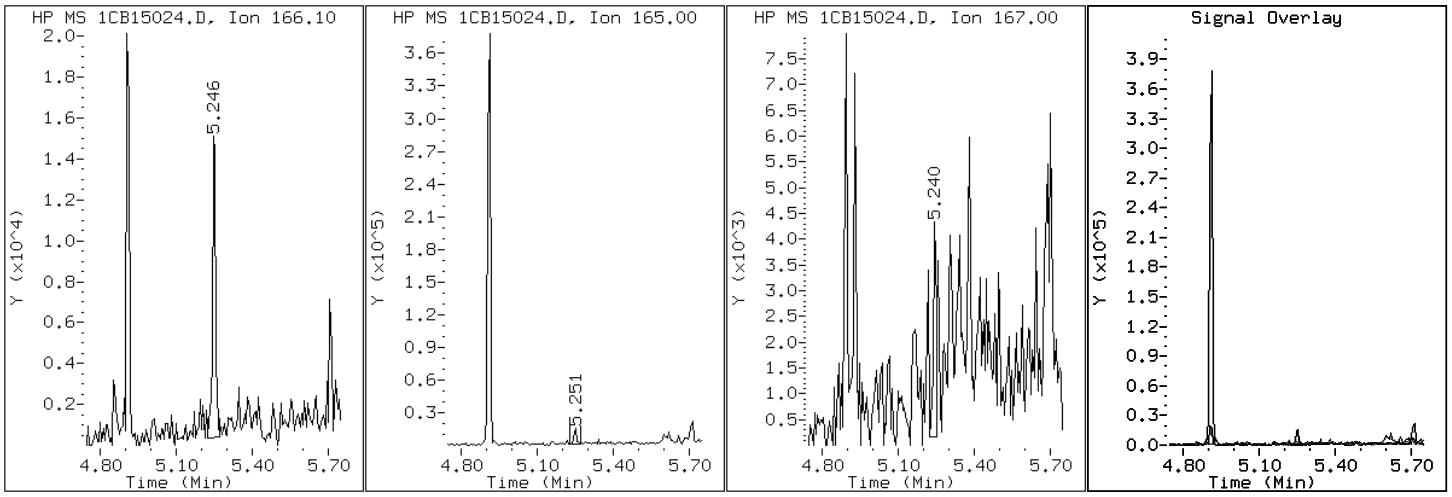
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

9 Fluorene



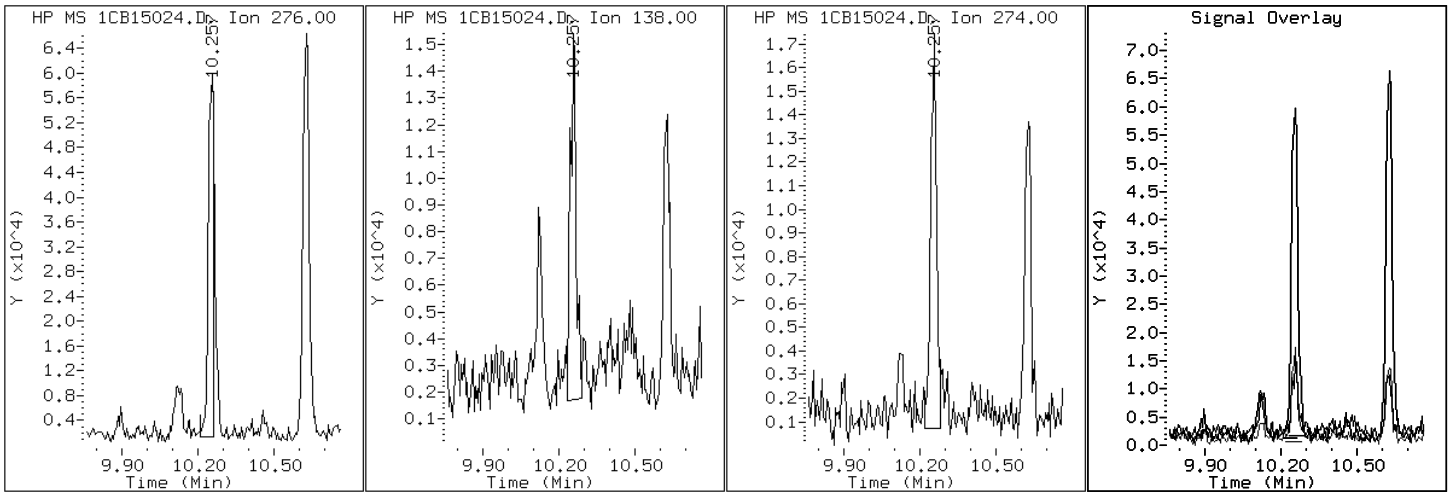
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

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



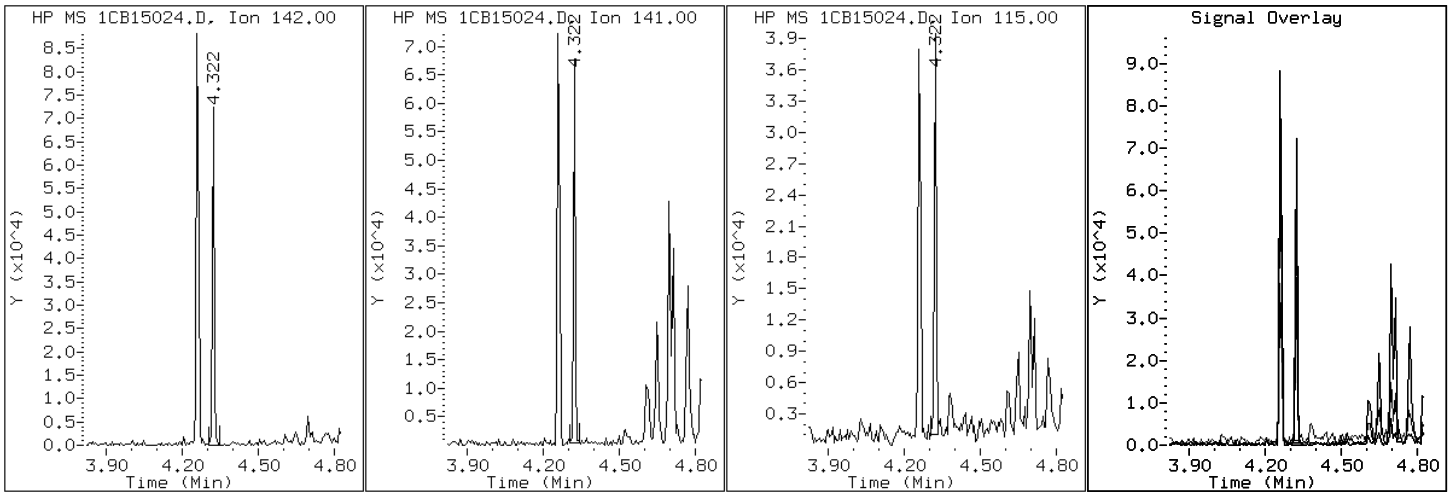
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

4 1-Methylnaphthalene



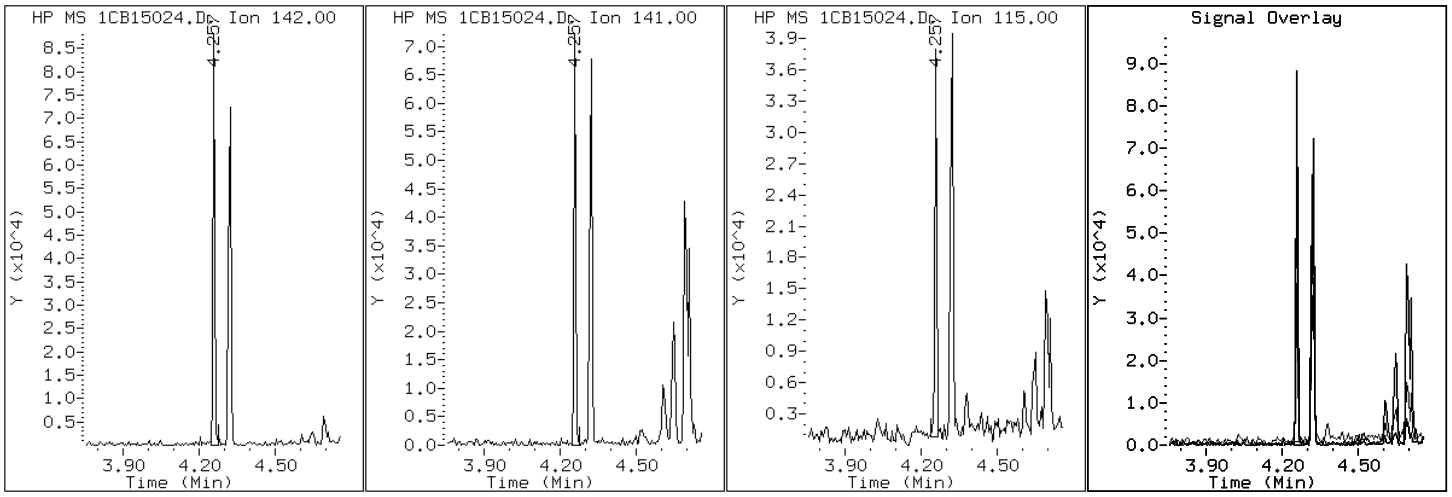
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

3 2-Methylnaphthalene



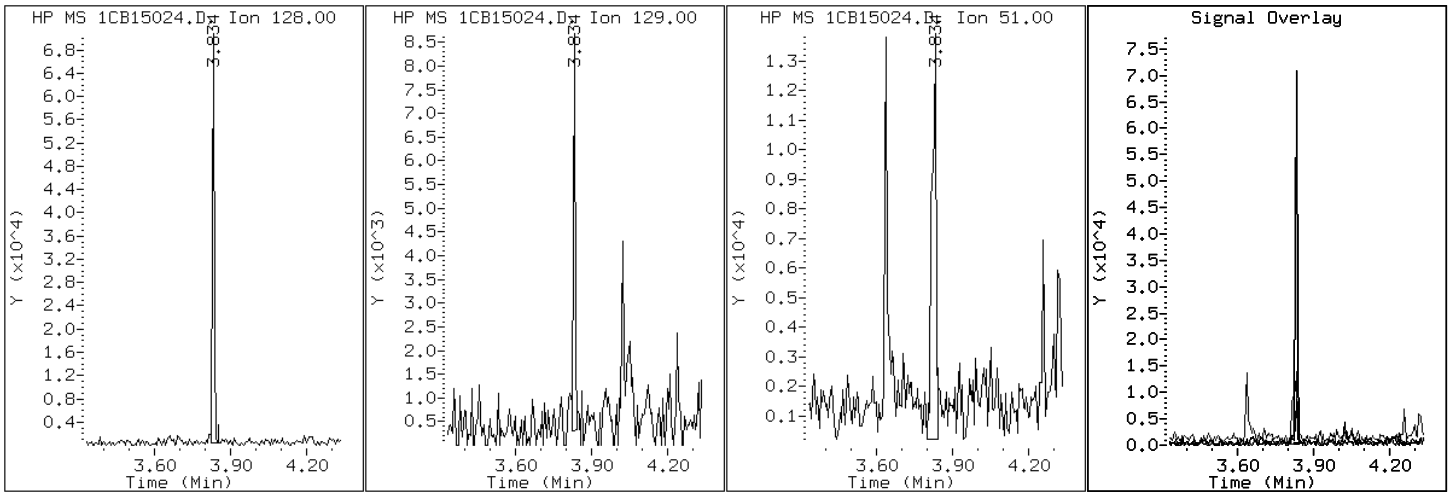
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

2 Naphthalene



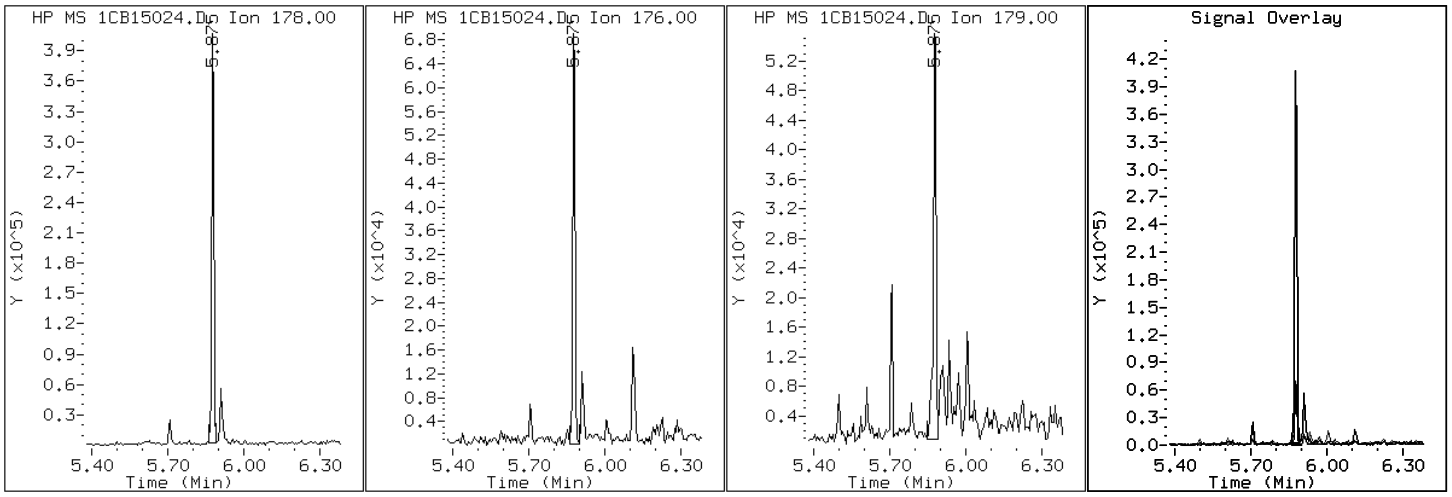
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

11 Phenanthrene



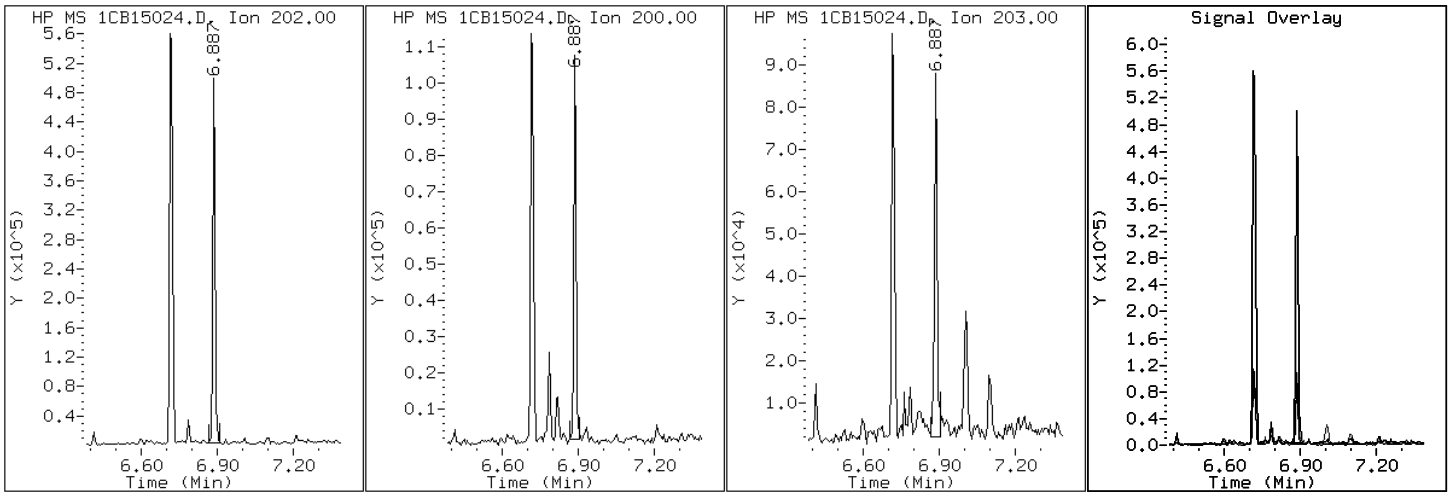
Data File: 1CB15024.D

Date: 15-FEB-2013 18:13

Client ID: CV0005K-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-16-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15024.D
Inj. Date and Time: 15-FEB-2013 18:13
Instrument ID: BSMC5973.i
Client ID: CV0005K-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

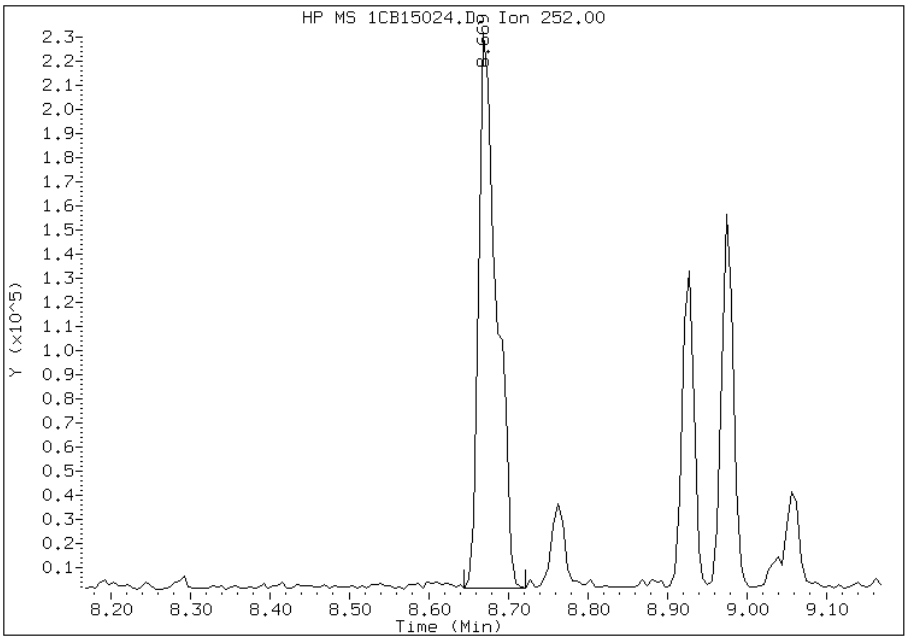
Processing Integration Results

RT: 8.67

Response: 366056

Amount: 5

Conc: 326



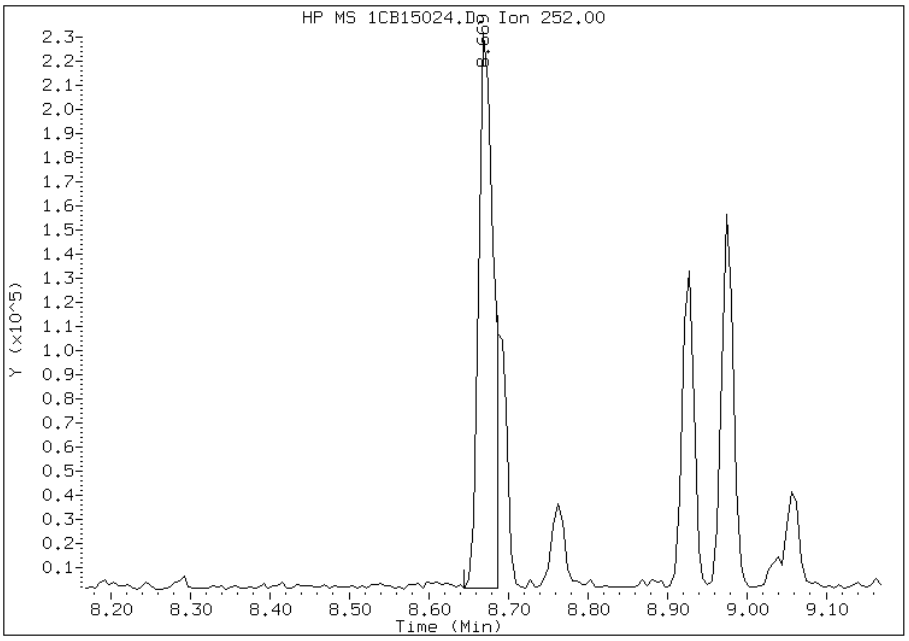
Manual Integration Results

RT: 8.67

Response: 296892

Amount: 4

Conc: 265



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:09
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15024.D
Inj. Date and Time: 15-FEB-2013 18:13
Instrument ID: BSMC5973.i
Client ID: CV0005K-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

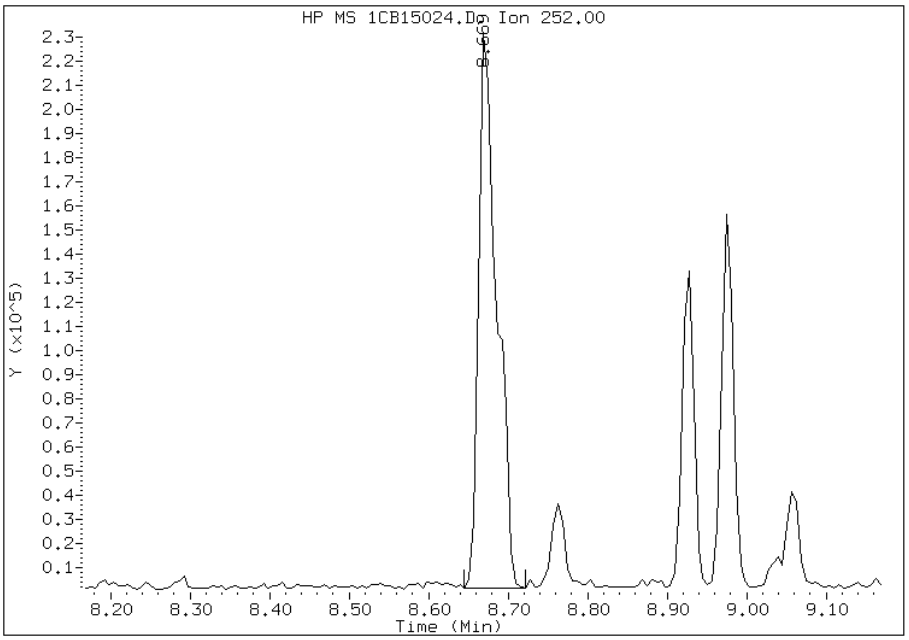
Processing Integration Results

RT: 8.67

Response: 366056

Amount: 4

Conc: 296



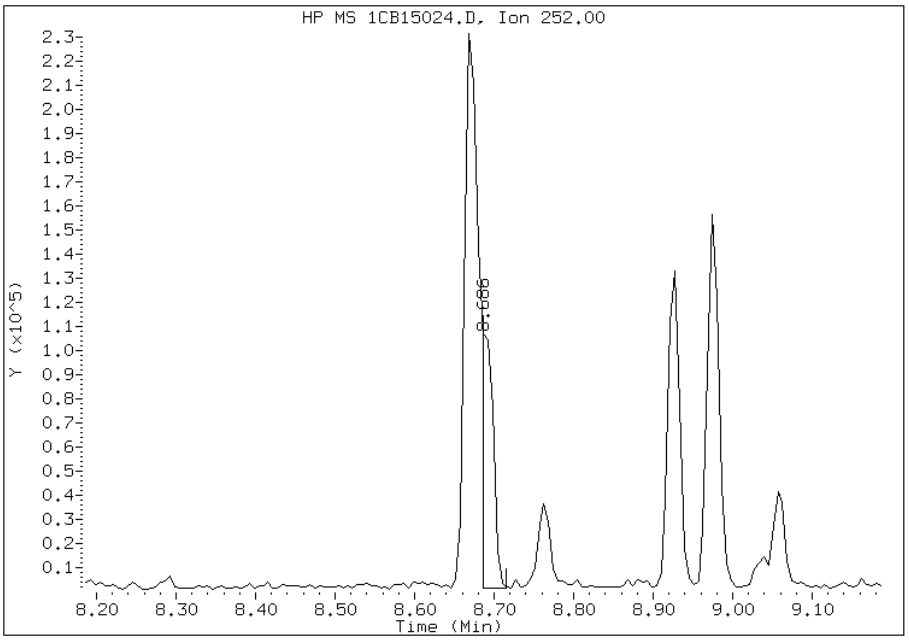
Manual Integration Results

RT: 8.69

Response: 106228

Amount: 1

Conc: 86



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15024.D
Inj. Date and Time: 15-FEB-2013 18:13
Instrument ID: BSMC5973.i
Client ID: CV0005K-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

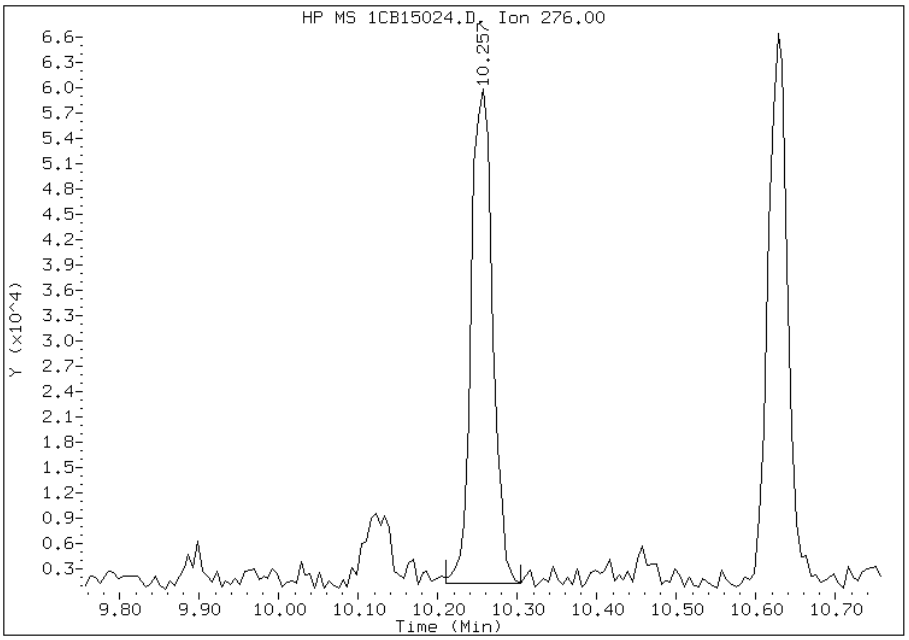
Processing Integration Results

RT: 10.26

Response: 108874

Amount: 2

Conc: 106



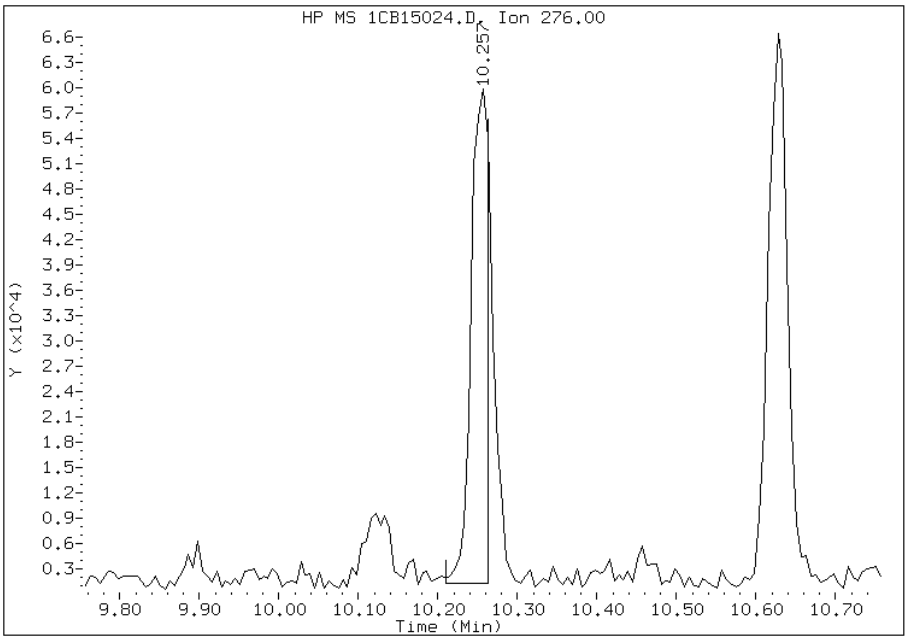
Manual Integration Results

RT: 10.26

Response: 88030

Amount: 1

Conc: 86



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005L-CS | Lab Sample ID: 680-87318-17

Matrix: Solid | Lab File ID: 1CB15025.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 11:54

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.11(g) | Date Analyzed: 02/15/2013 18:31

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

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

% Moisture: 1.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.5	U	8.5	4.2
56-55-3	Benzo[a]anthracene	32		8.1	3.9
50-32-8	Benzo[a]pyrene	22		11	5.3
205-99-2	Benzo[b]fluoranthene	37		12	6.2
191-24-2	Benzo[g,h,i]perylene	18	J	20	4.4
207-08-9	Benzo[k]fluoranthene	12		8.1	3.6
218-01-9	Chrysene	23		9.1	4.5
53-70-3	Dibenz(a,h)anthracene	5.7	J	20	4.1
206-44-0	Fluoranthene	43		20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	15	J	20	7.2
90-12-0	1-Methylnaphthalene	7.6	J	40	4.4
91-57-6	2-Methylnaphthalene	10	J	40	7.2
91-20-3	Naphthalene	6.9	J	40	4.4
85-01-8	Phenanthrene	23		8.1	3.9
129-00-0	Pyrene	39		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	34		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15025.D
Lab Smp Id: 680-87318-A-17-A Client Smp ID: CV0005L-CS
Inj Date : 15-FEB-2013 18:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-17-a
Misc Info : 680-87318-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	1.677	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	4639901	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	3623283	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	6105628	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	304588	3.40469	229.1702
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	6668068	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	6445269	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	12683	0.10315	6.9433(Q)
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	12054	0.15078	10.1488
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	8241	0.11334	7.6290
11 Phenanthrene	178	5.880	5.880	(1.003)	62050	0.34047	22.9170
15 Fluoranthene	202	6.715	6.721	(1.145)	112962	0.63432	42.6965
16 Pyrene	202	6.886	6.886	(0.881)	102742	0.57876	38.9566
17 Benzo(a)anthracene	228	7.803	7.804	(0.998)	88455	0.48104	32.3792
19 Chrysene	228	7.833	7.833	(1.002)	65103	0.34276	23.0710

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.959)	87975	0.55674	37.4745(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.961)	30164	0.17327	11.6631(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	50057	0.33291	22.4082
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	31689	0.21942	14.7694(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.136)	11629	0.08539	5.7474
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.175)	38276	0.26091	17.5619

QC Flag Legend

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

Data File: 1CB15025.D

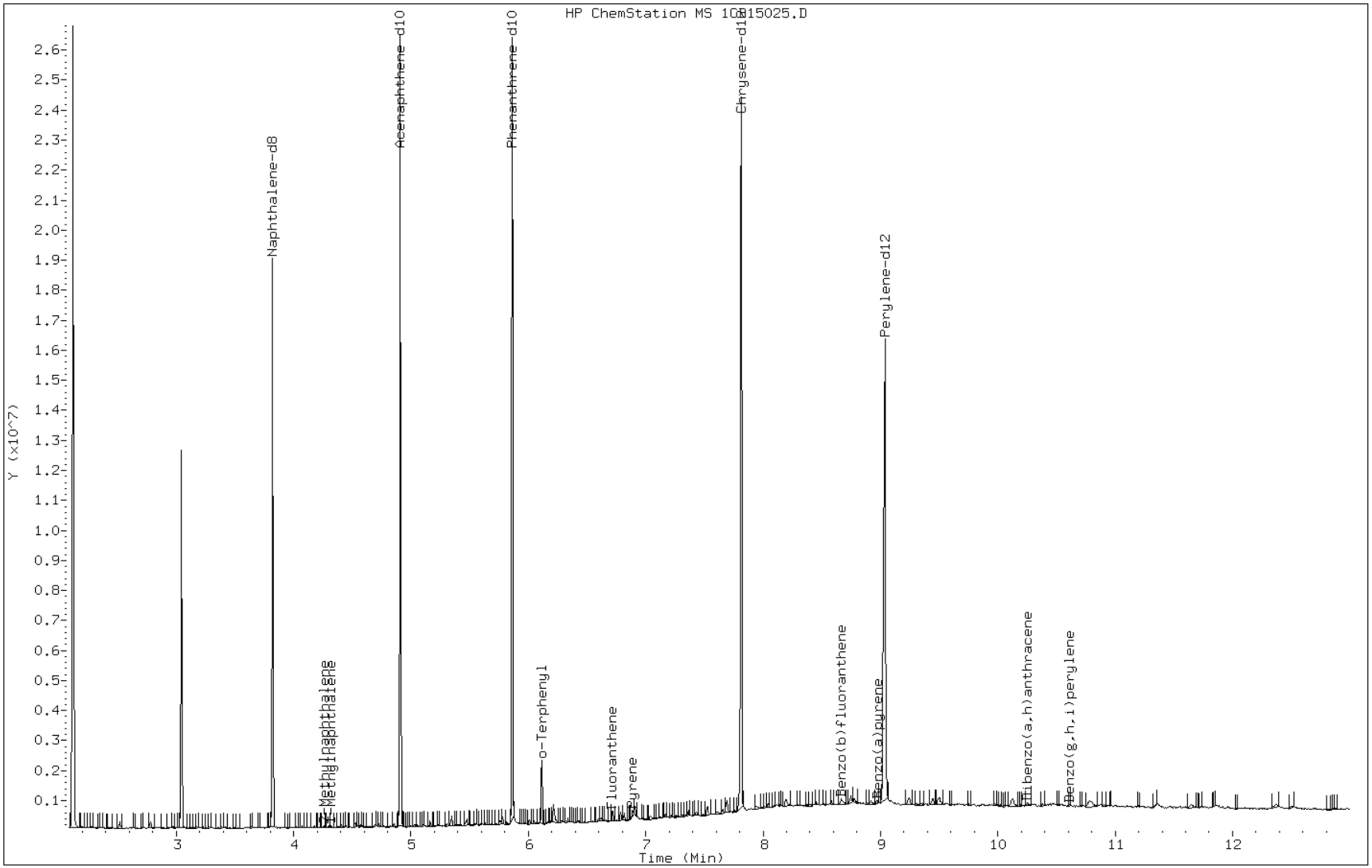
Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a

Operator: SCC



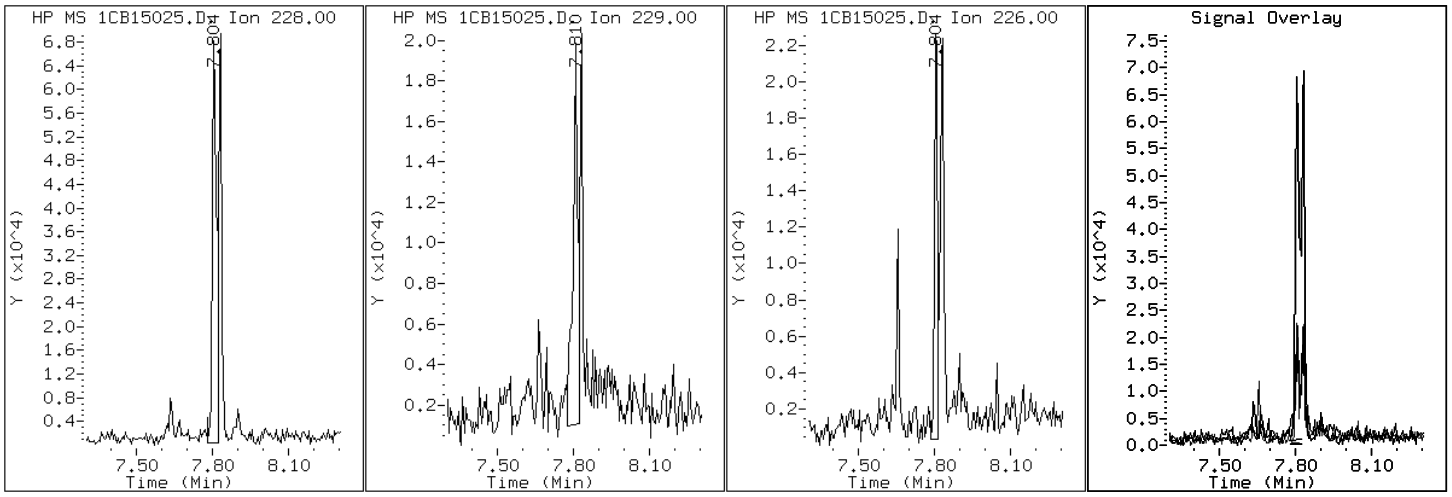
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

17 Benzo(a)anthracene



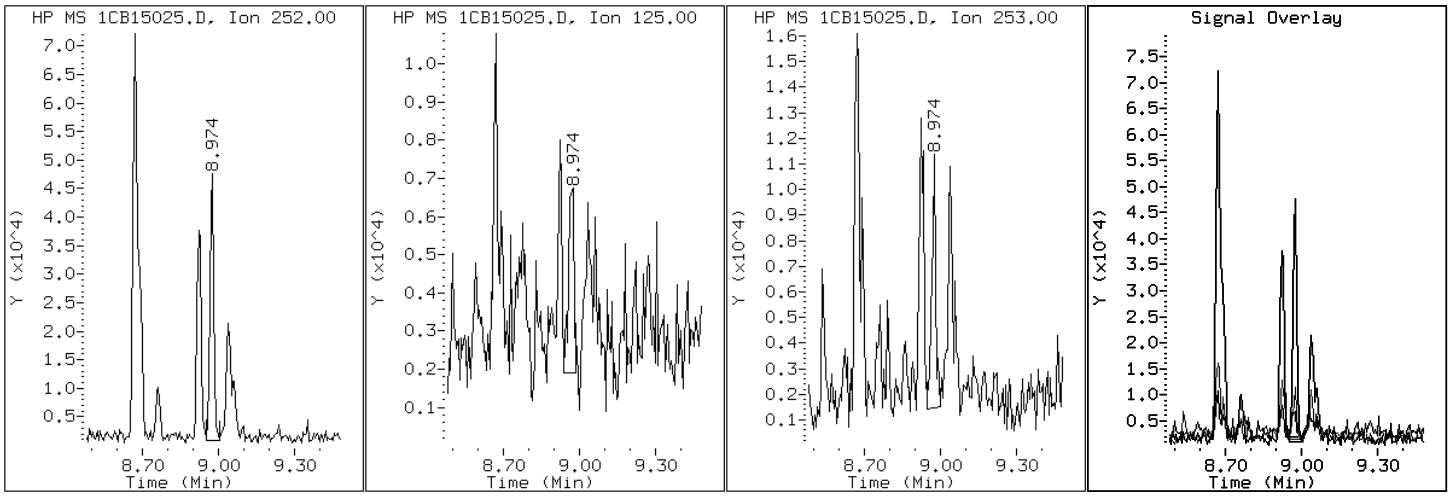
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

22 Benzo(a)pyrene



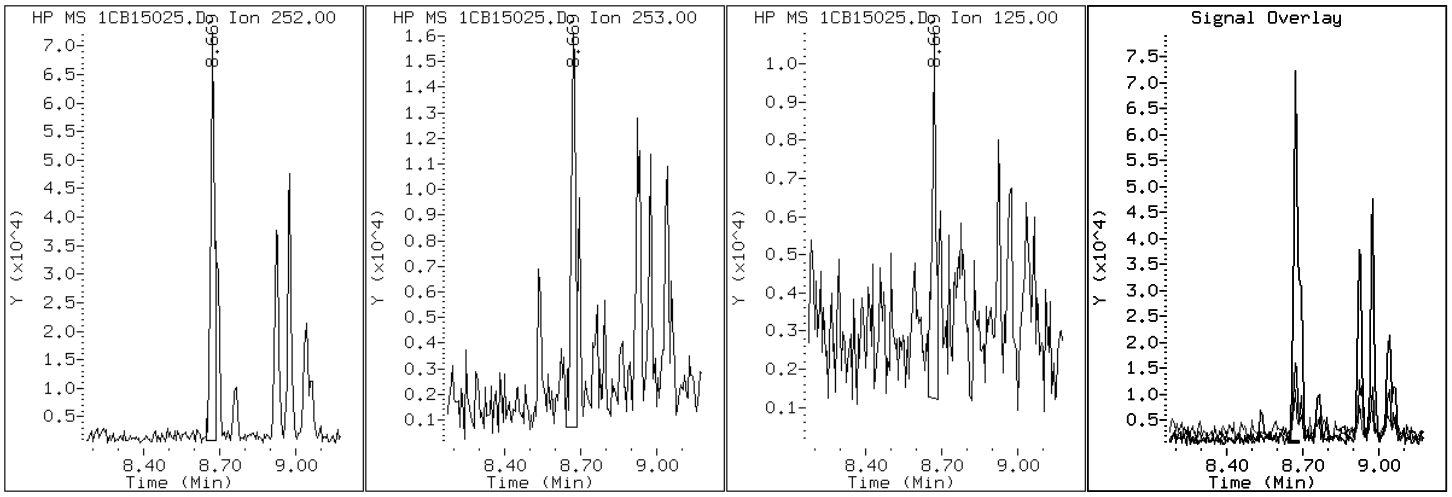
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

20 Benzo(b)fluoranthene



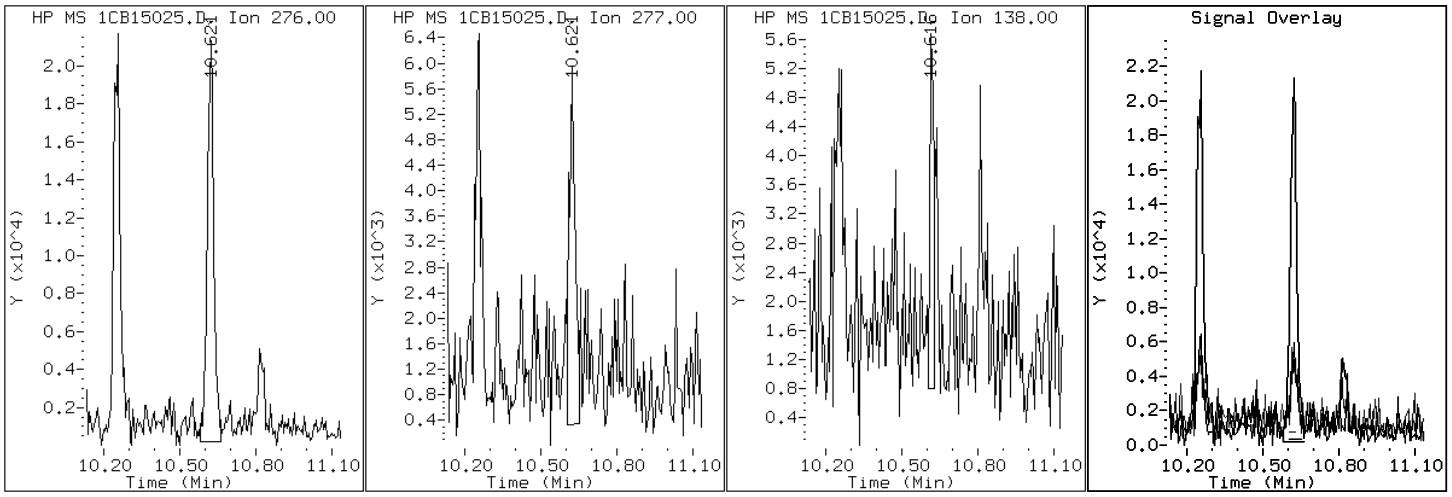
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

26 Benzo(g,h,i)perylene



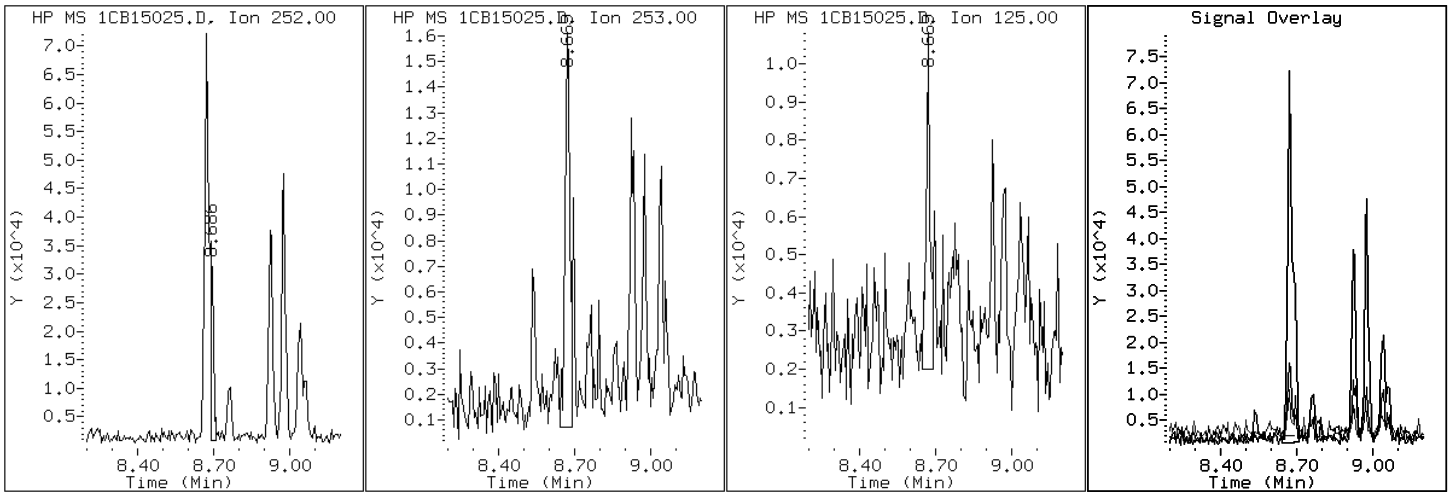
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

21 Benzo(k)fluoranthene



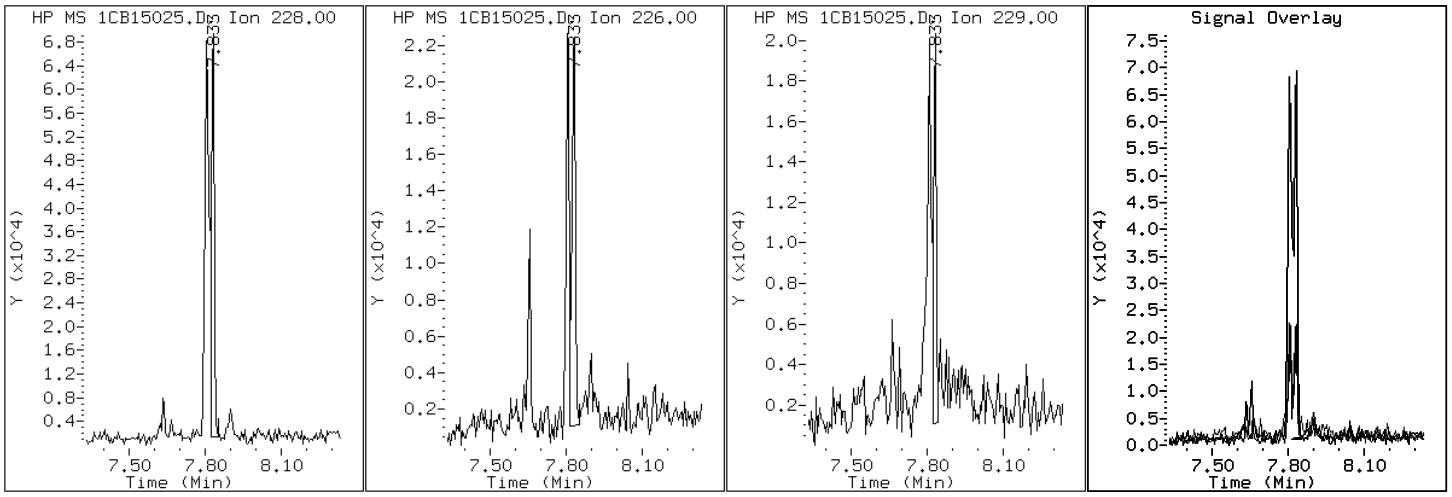
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

19 Chrysene



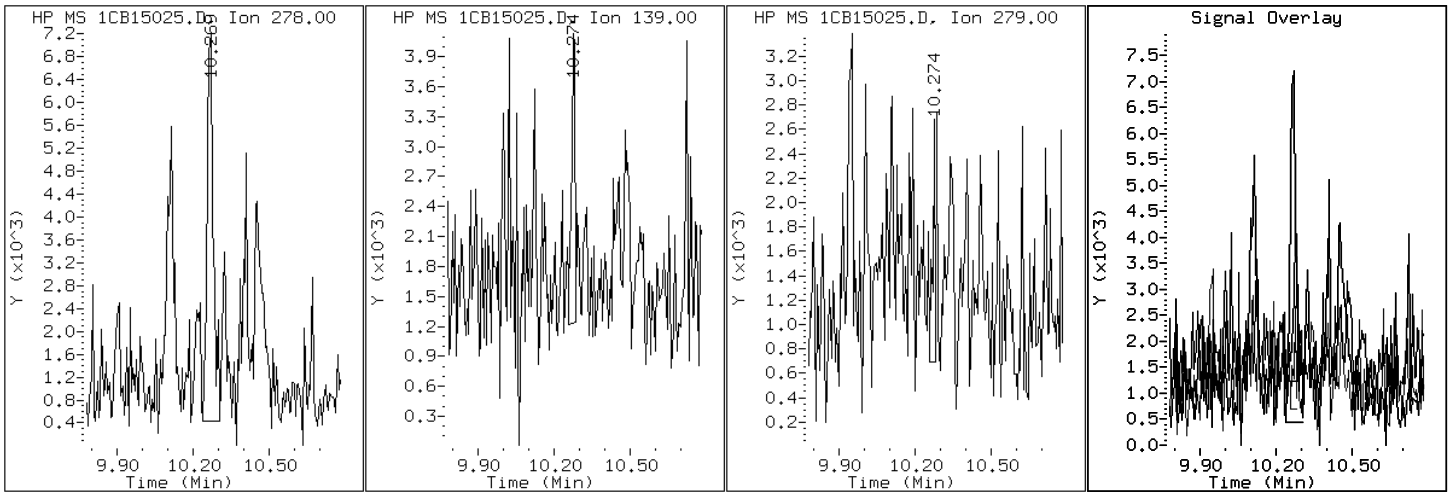
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

25 Dibenzo(a,h)anthracene



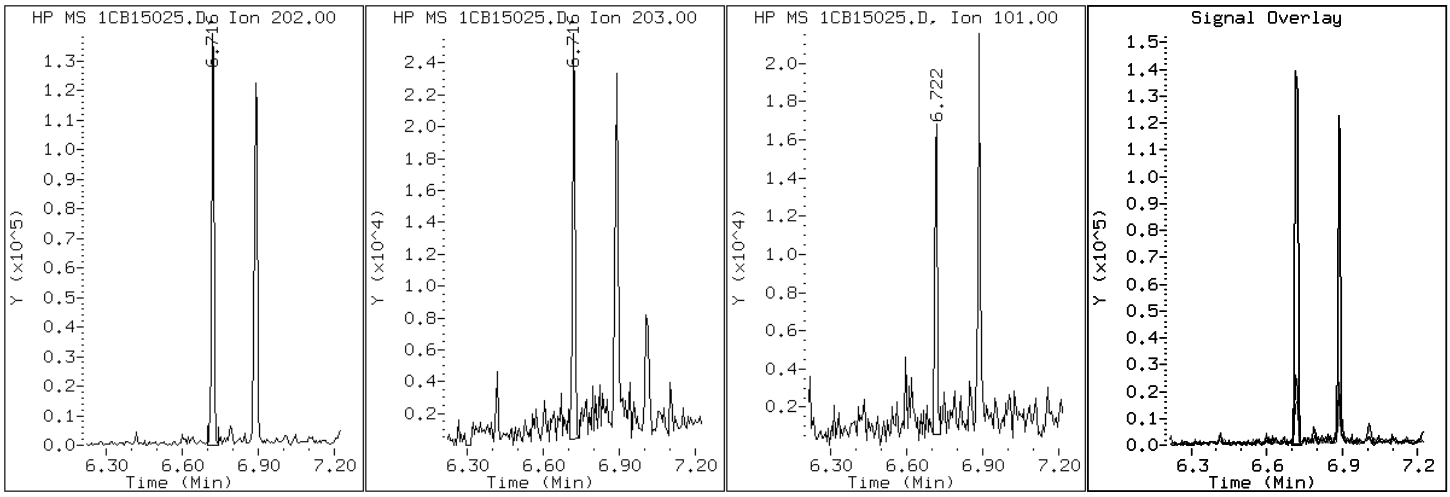
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

15 Fluoranthene



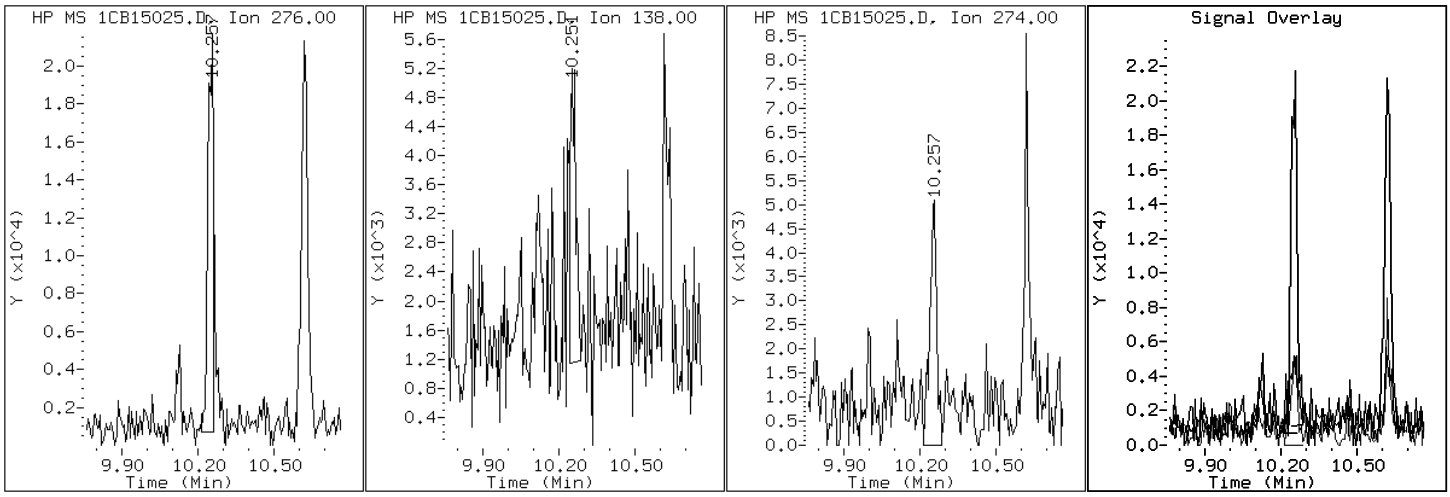
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

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



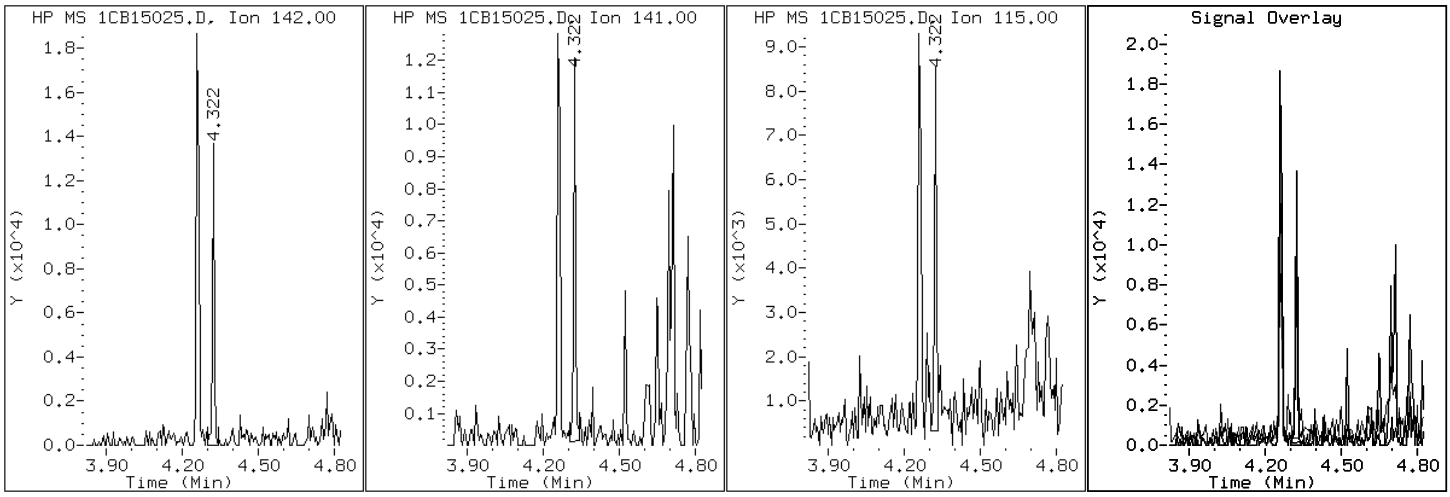
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

4 1-Methylnaphthalene



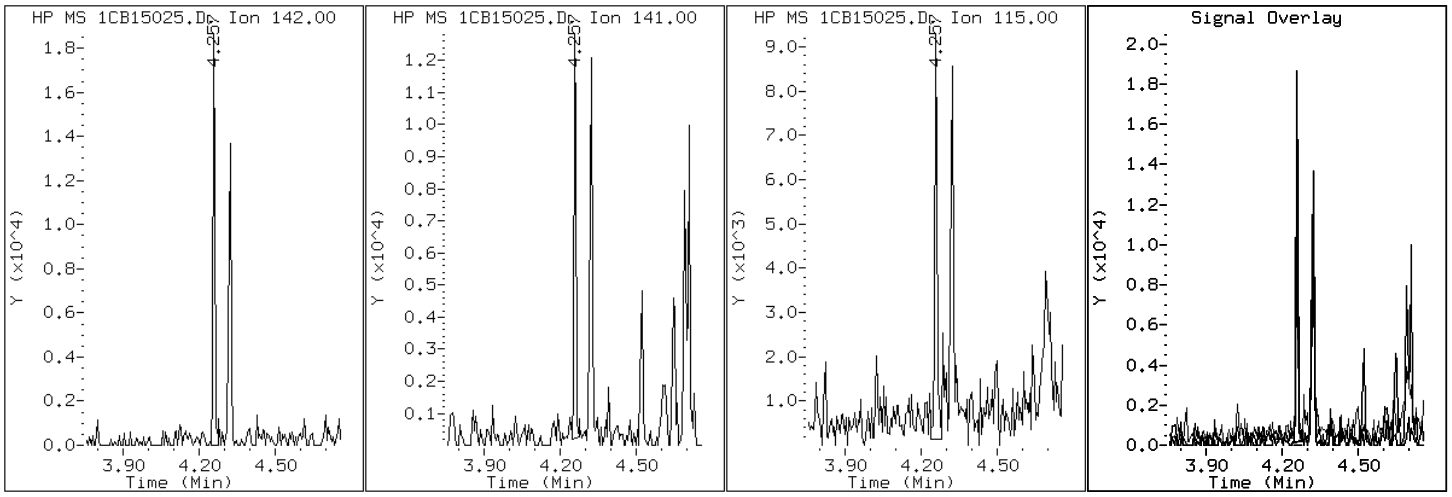
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

3 2-Methylnaphthalene



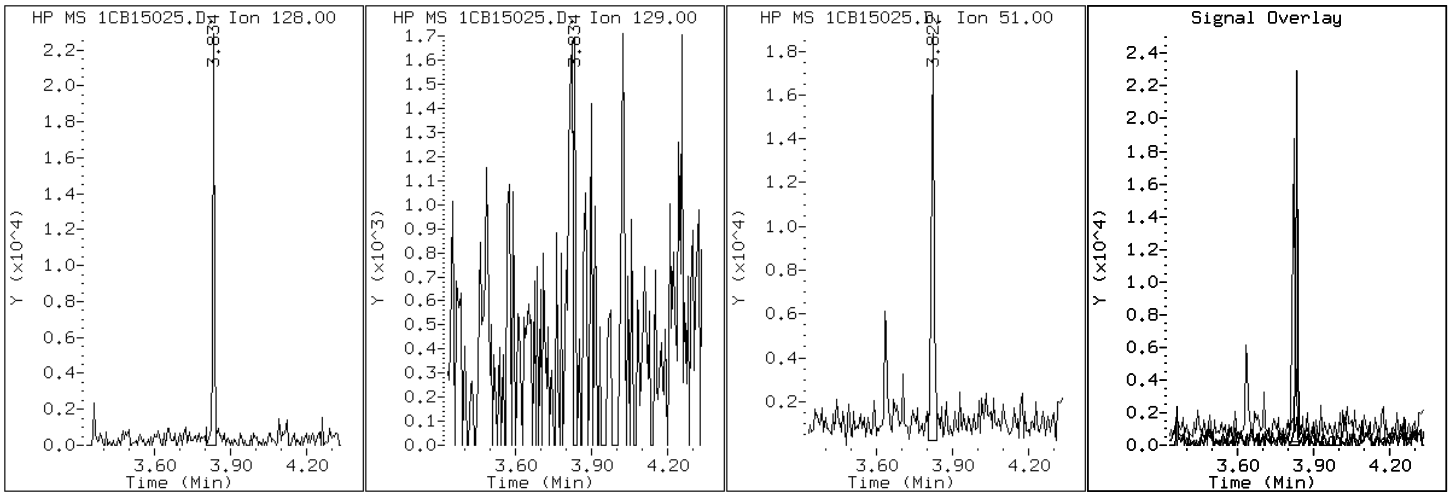
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

2 Naphthalene



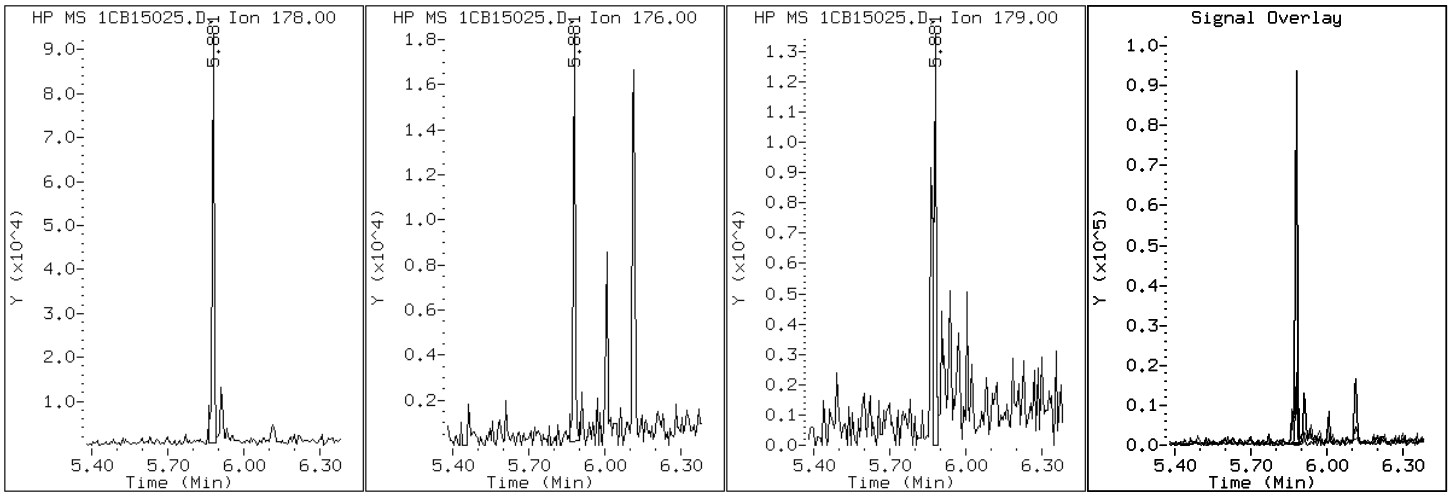
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

11 Phenanthrene



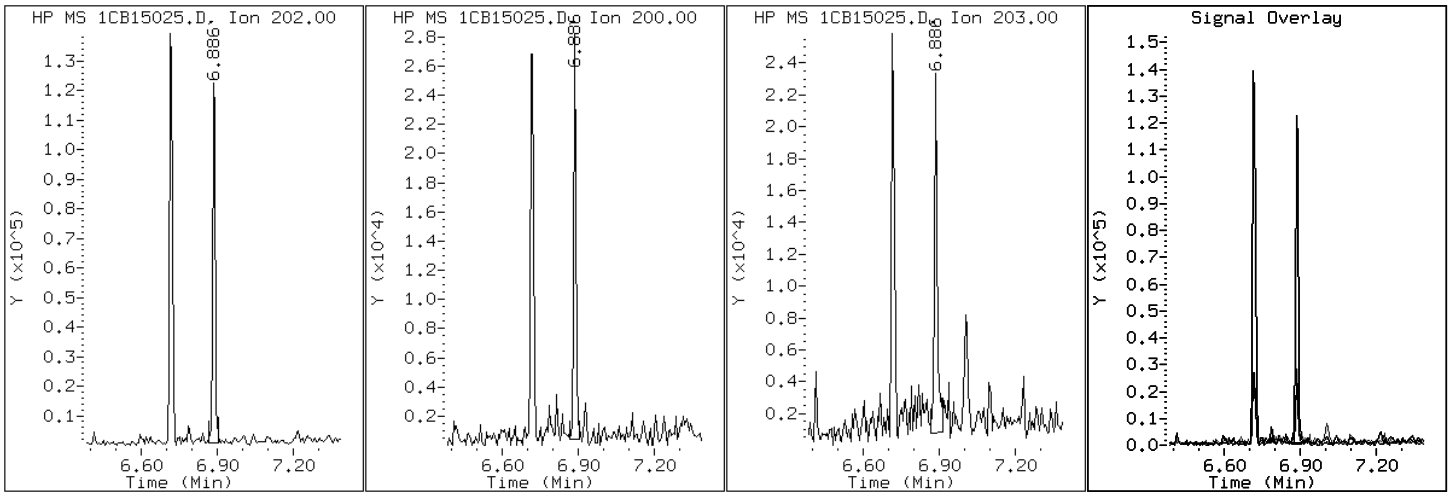
Data File: 1CB15025.D

Date: 15-FEB-2013 18:31

Client ID: CV0005L-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-17-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15025.D
Inj. Date and Time: 15-FEB-2013 18:31
Instrument ID: BSMC5973.i
Client ID: CV0005L-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

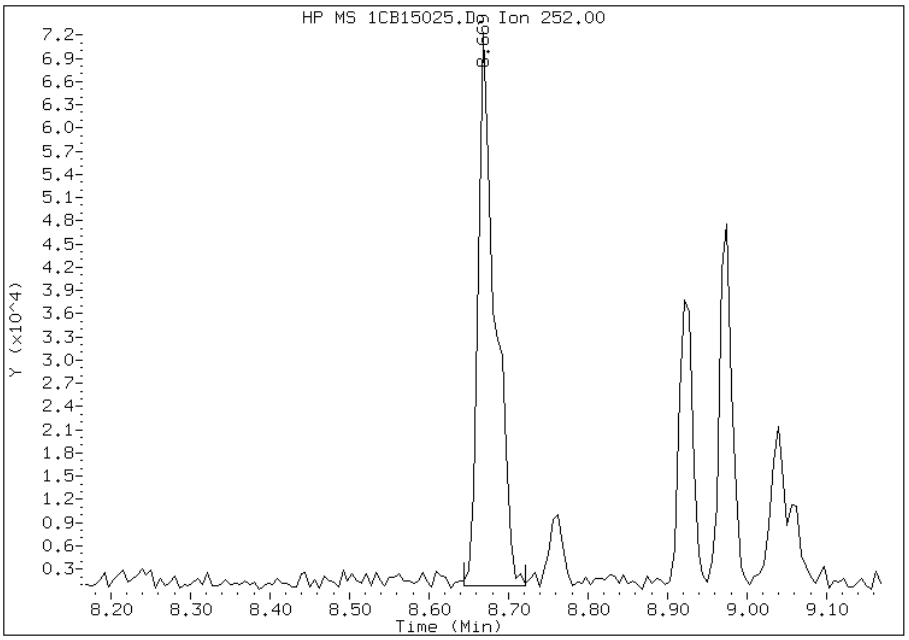
Processing Integration Results

RT: 8.67

Response: 107580

Amount: 1

Conc: 46



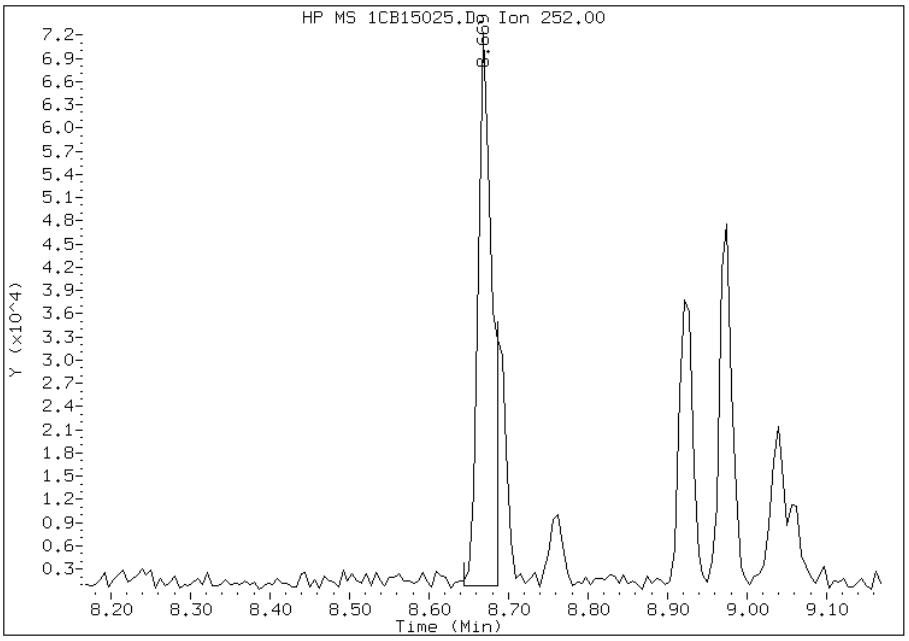
Manual Integration Results

RT: 8.67

Response: 87975

Amount: 1

Conc: 37



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:10
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15025.D
Inj. Date and Time: 15-FEB-2013 18:31
Instrument ID: BSMC5973.i
Client ID: CV0005L-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

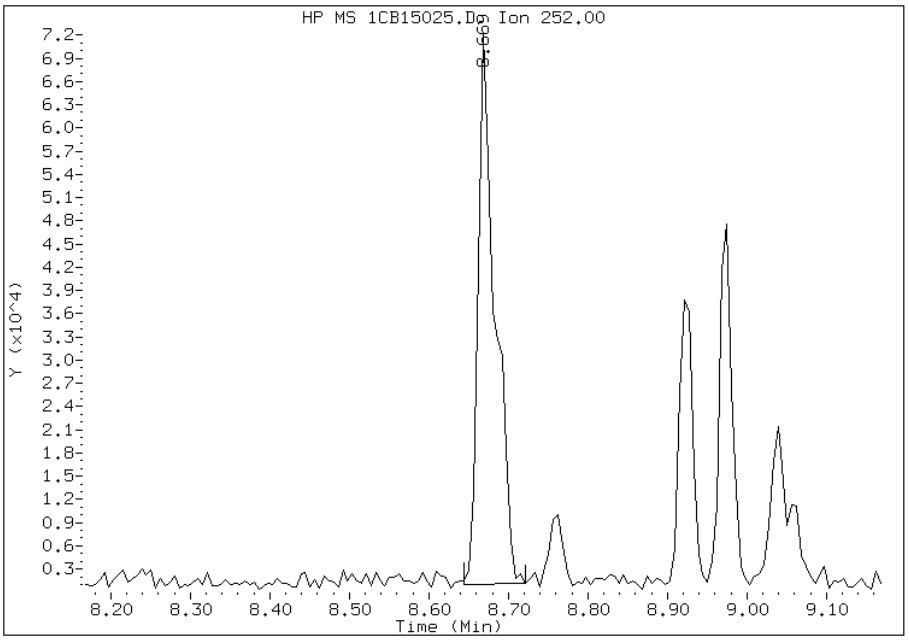
Processing Integration Results

RT: 8.67

Response: 106713

Amount: 1

Conc: 41



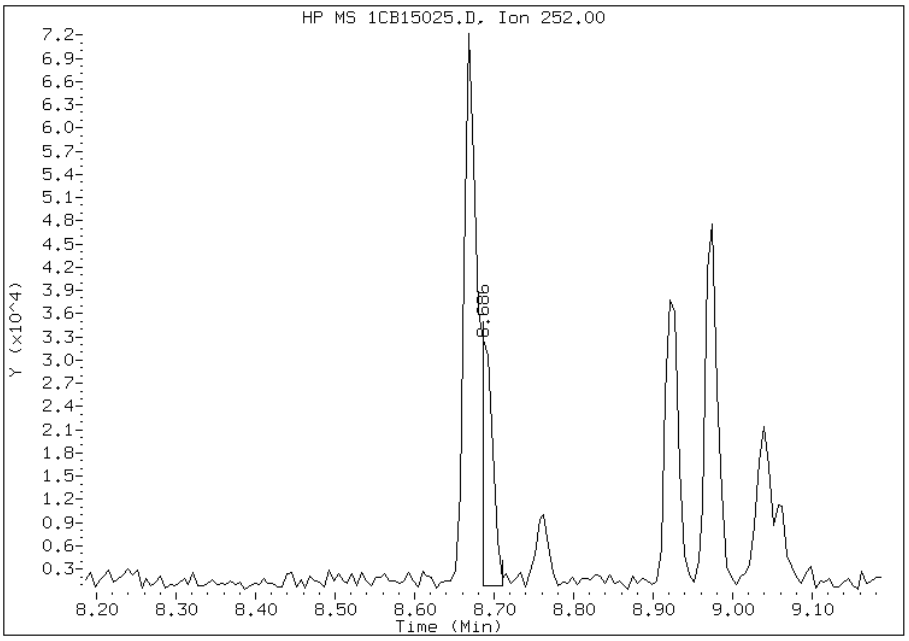
Manual Integration Results

RT: 8.69

Response: 30164

Amount: 0

Conc: 12



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15025.D
Inj. Date and Time: 15-FEB-2013 18:31
Instrument ID: BSMC5973.i
Client ID: CV0005L-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

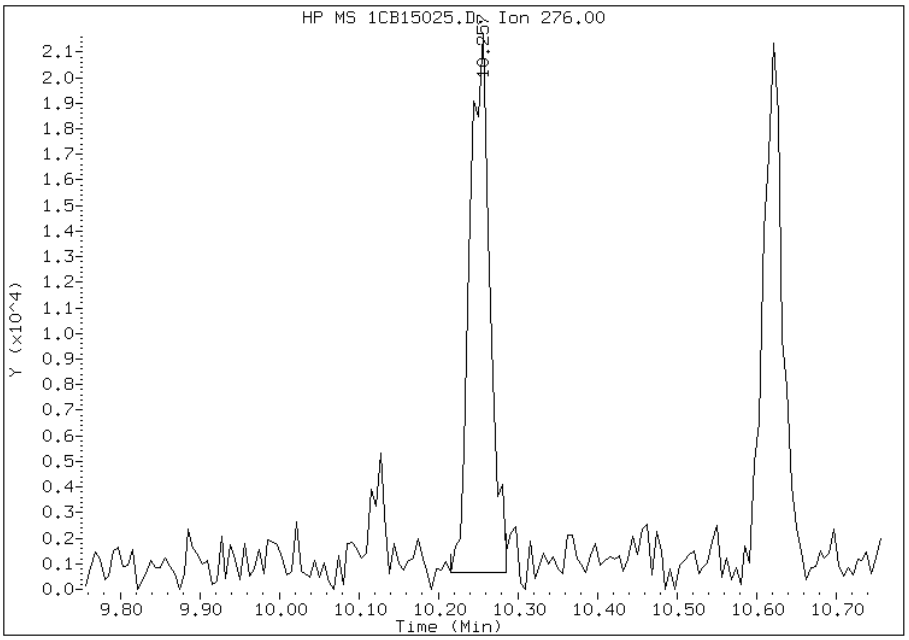
Processing Integration Results

RT: 10.26

Response: 36904

Amount: 0

Conc: 17



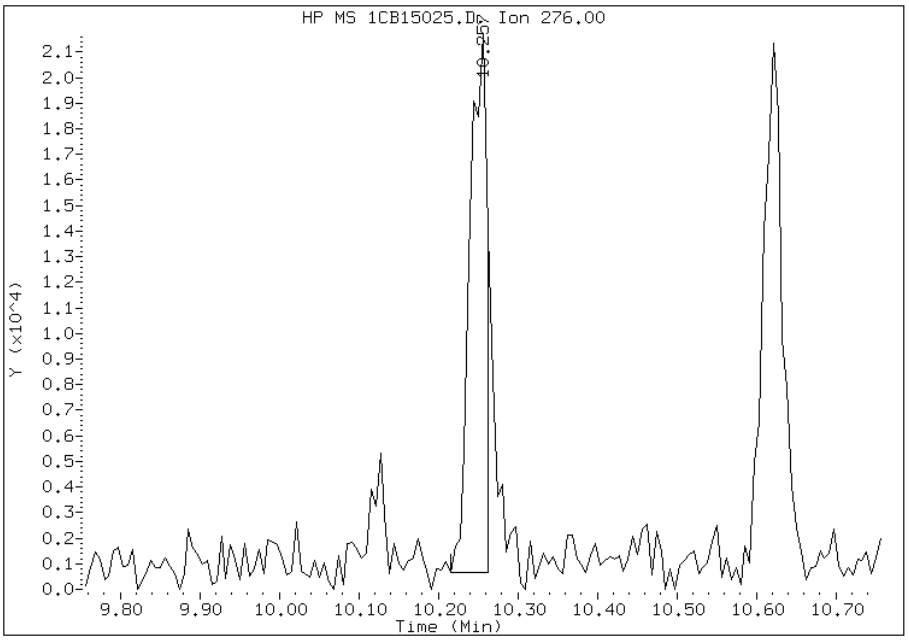
Manual Integration Results

RT: 10.26

Response: 31689

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005M-CS | Lab Sample ID: 680-87318-18

Matrix: Solid | Lab File ID: 1CB15026.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 11:56

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 14.98(g) | Date Analyzed: 02/15/2013 18:50

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

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

% Moisture: 5.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	21
208-96-8	Acenaphthylene	21	J	43	5.3
120-12-7	Anthracene	18		8.9	4.5
56-55-3	Benzo[a]anthracene	110		8.5	4.1
50-32-8	Benzo[a]pyrene	120		11	5.5
205-99-2	Benzo[b]fluoranthene	200		13	6.5
191-24-2	Benzo[g,h,i]perylene	100		21	4.7
207-08-9	Benzo[k]fluoranthene	61		8.5	3.8
218-01-9	Chrysene	110		9.6	4.8
53-70-3	Dibenz(a,h)anthracene	22		21	4.4
206-44-0	Fluoranthene	190		21	4.3
86-73-7	Fluorene	4.6	J	21	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	80		21	7.5
90-12-0	1-Methylnaphthalene	26	J	43	4.7
91-57-6	2-Methylnaphthalene	26	J	43	7.5
91-20-3	Naphthalene	24	J	43	4.7
85-01-8	Phenanthrene	95		8.5	4.1
129-00-0	Pyrene	190		21	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15026.D
Lab Smp Id: 680-87318-A-18-A Client Smp ID: CV0005M-CS
Inj Date : 15-FEB-2013 18:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-18-a
Misc Info : 680-87318-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	5.757	% 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	3.821	3.821	(1.000)	2519838	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1949585	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3481521	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	356502	6.98856	495.0241
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3525279	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3279572	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	22474	0.33658	23.8408(Q)
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	15781	0.36347	25.7461
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	14220	0.36012	25.5083
5 Acenaphthylene	152	4.821	4.821	(0.982)	23344	0.30097	21.3187
9 Fluorene	166	5.245	5.245	(1.068)	4055	0.06494	4.5997(Q)
11 Phenanthrene	178	5.880	5.880	(1.003)	139439	1.34178	95.0428
12 Anthracene	178	5.909	5.910	(1.008)	23407	0.25000	17.7080
13 Carbazole	167	6.015	6.015	(1.026)	20868	0.25659	18.1750

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	275878	2.71680	192.4403
16 Pyrene	202	6.886	6.886	(0.882)	248380	2.64652	187.4623
17 Benzo(a)anthracene	228	7.803	7.804	(0.999)	147180	1.51397	107.2399
19 Chrysene	228	7.833	7.833	(1.003)	159681	1.59017	112.6375
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	224709	2.79473	197.9608(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	75682	0.85440	60.5202(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	130151	1.70111	120.4958
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	83199	1.13218	80.1964(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	21872	0.31562	22.3565(M)
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	105574	1.41432	100.1810(M)

QC Flag Legend

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

Data File: 1CB15026.D

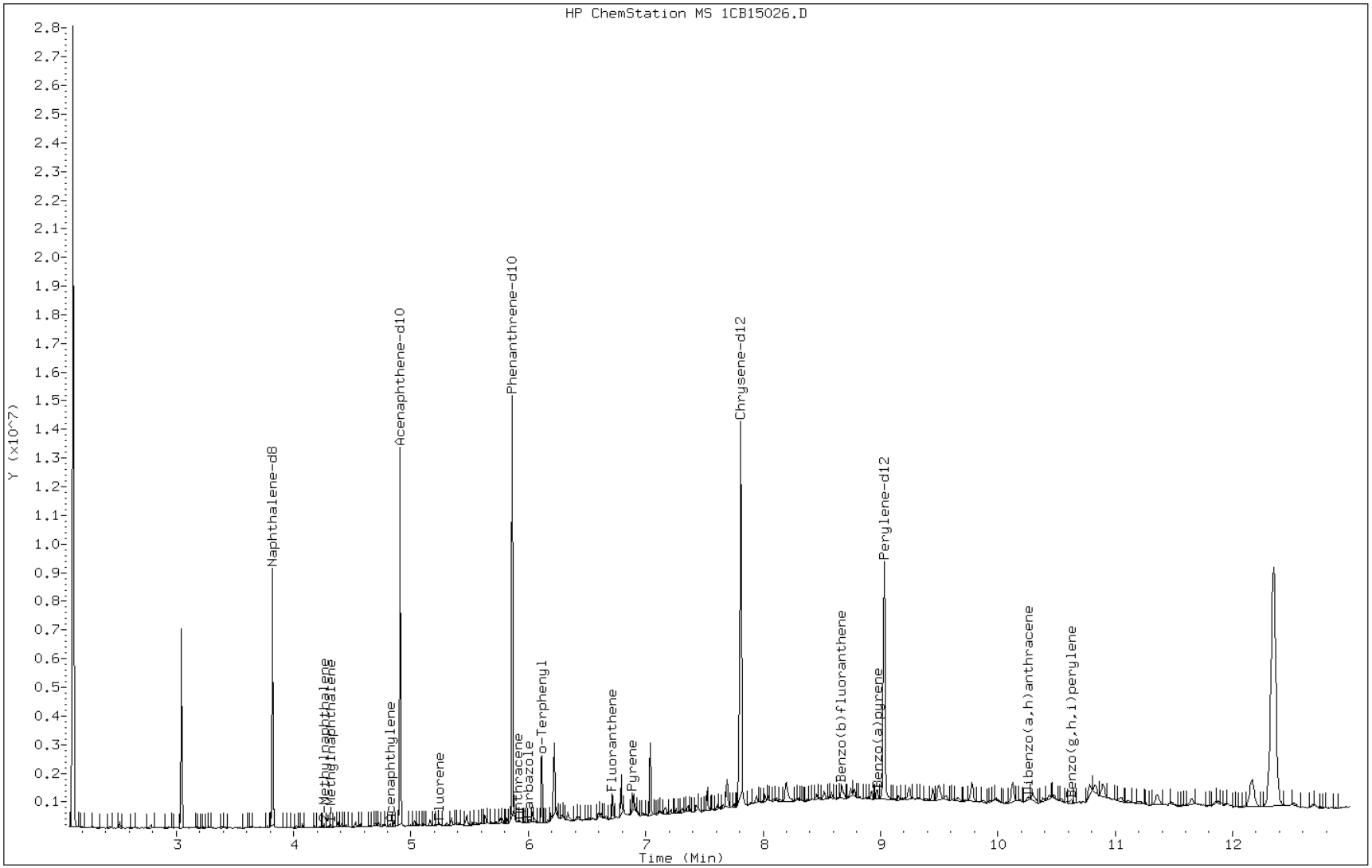
Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a

Operator: SCC



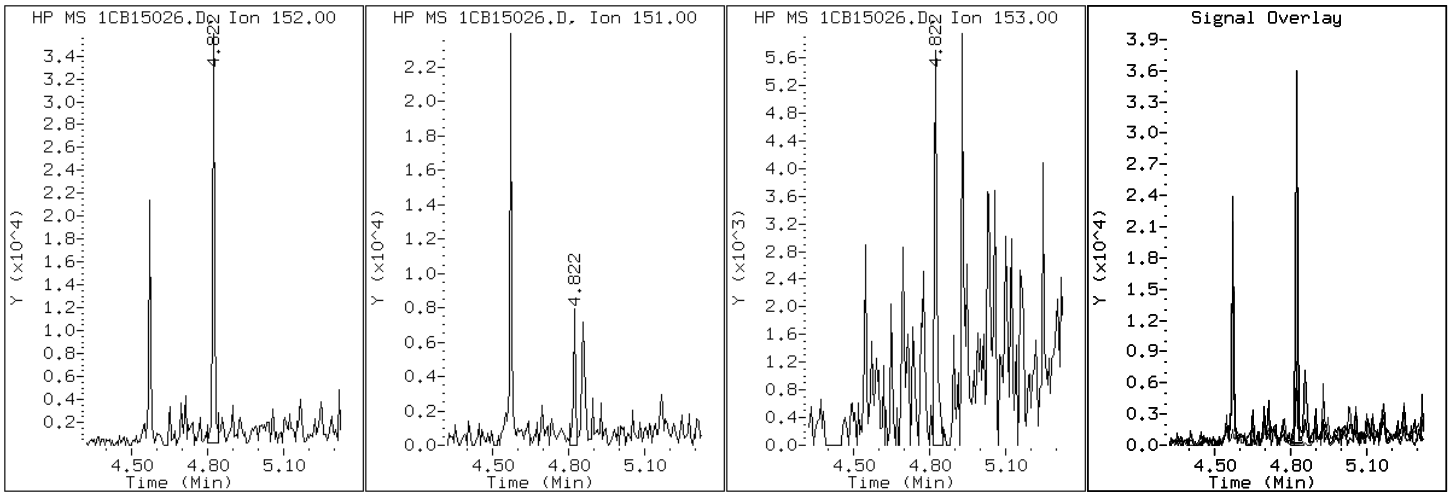
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

5 Acenaphthylene



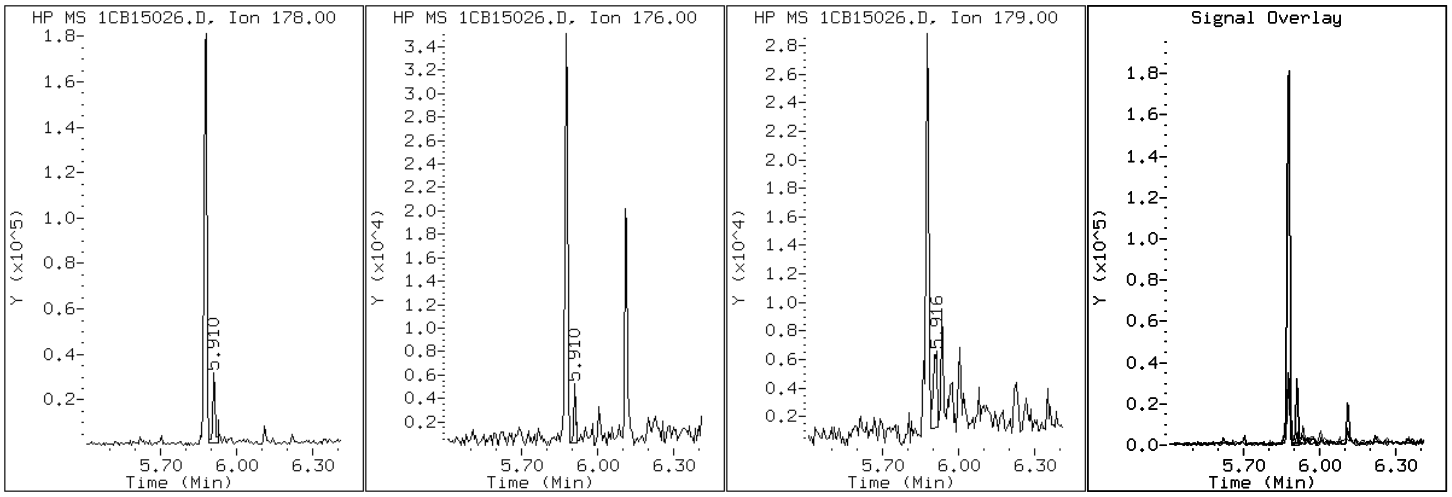
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

12 Anthracene



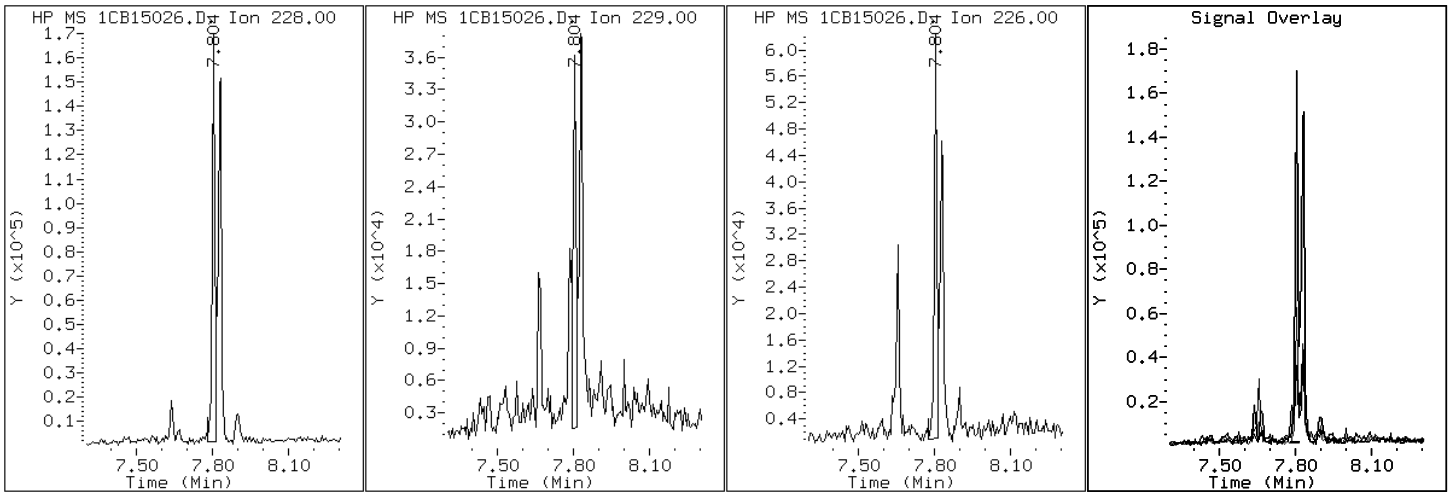
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

17 Benzo(a)anthracene



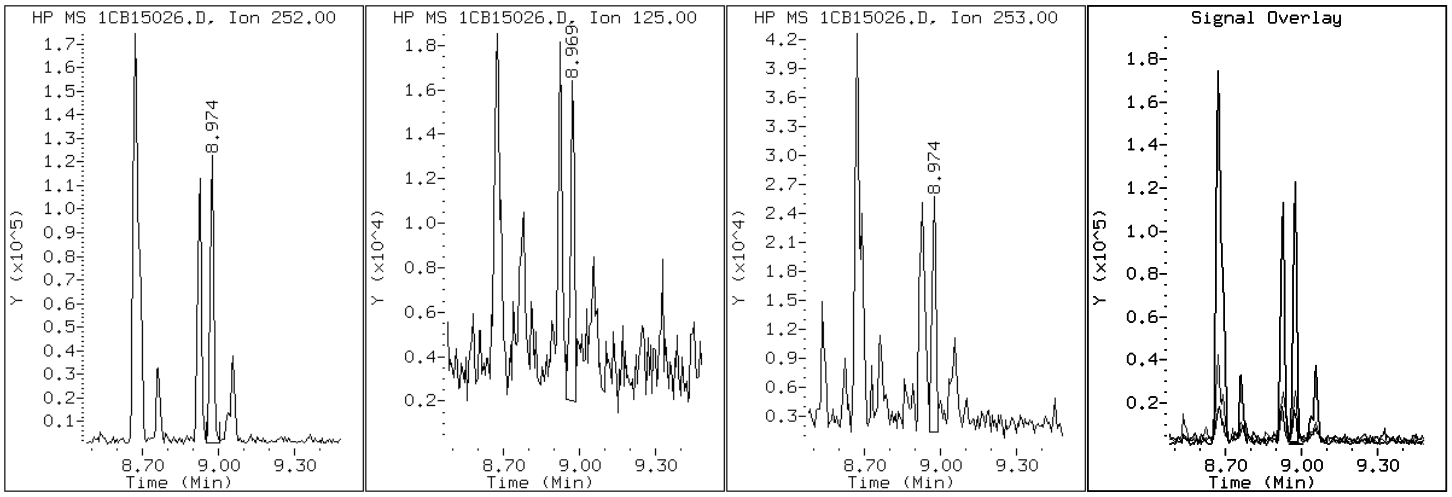
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

22 Benzo(a)pyrene



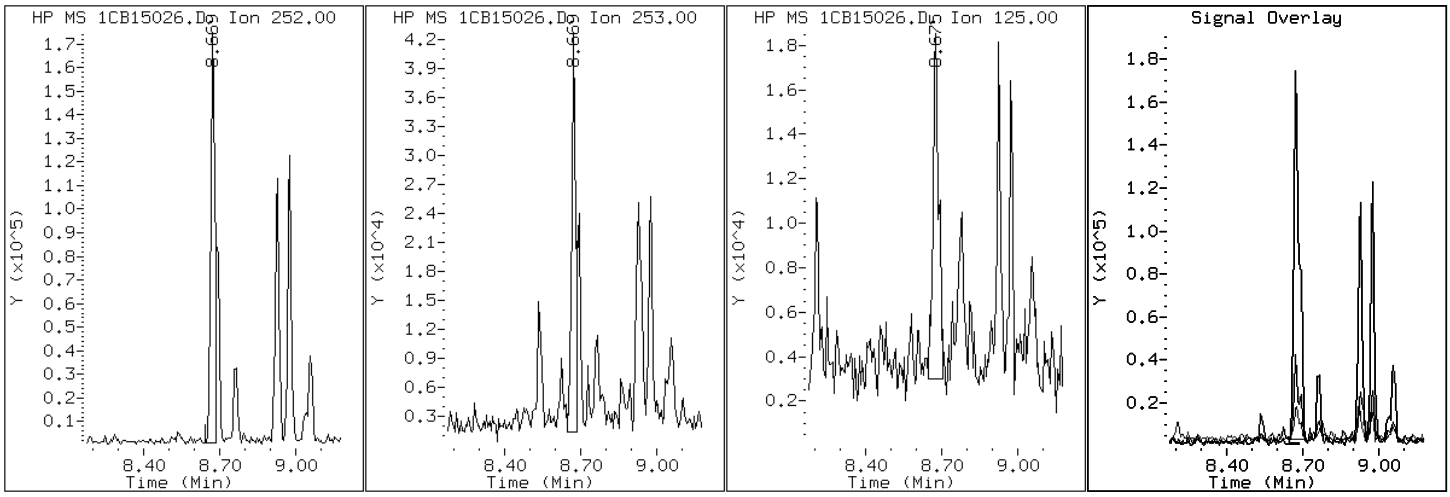
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

20 Benzo(b)fluoranthene



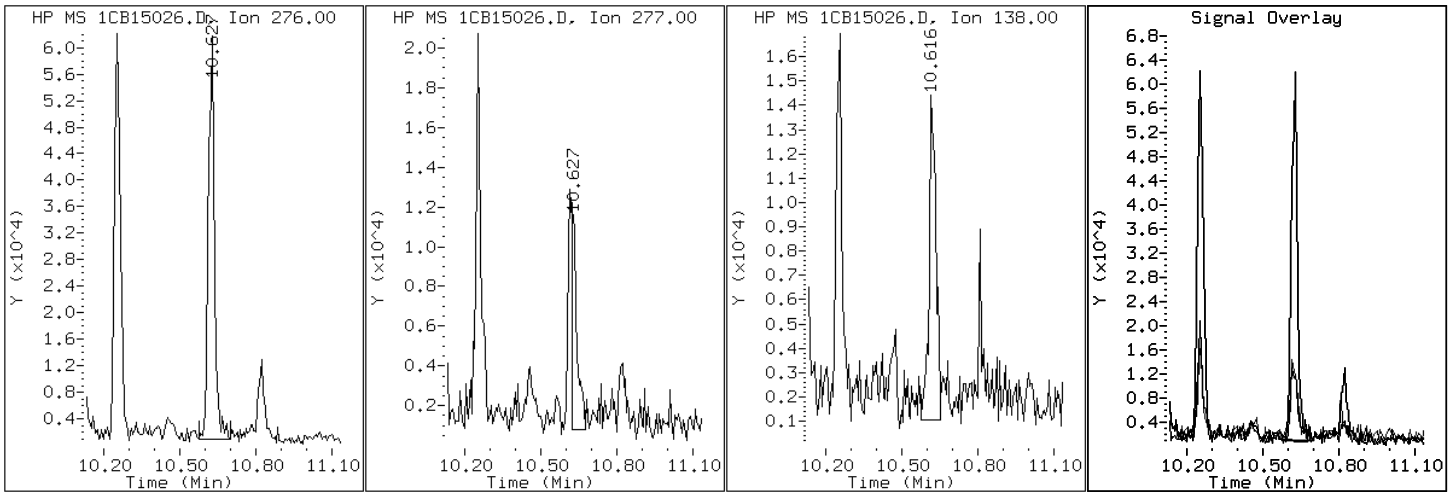
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

26 Benzo(g,h,i)perylene



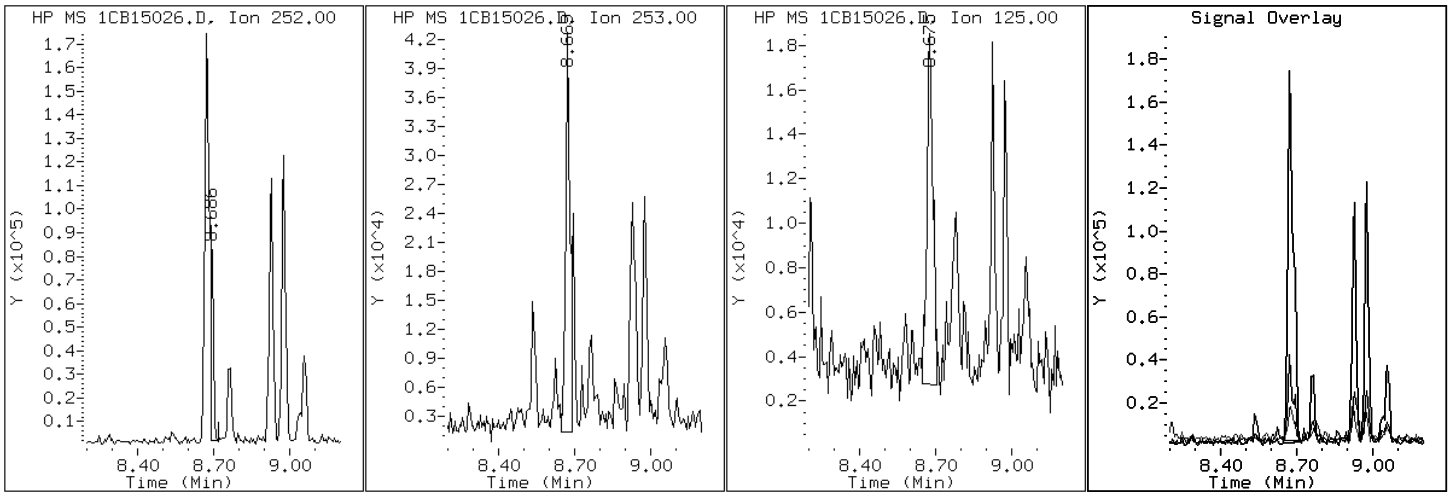
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

21 Benzo(k)fluoranthene



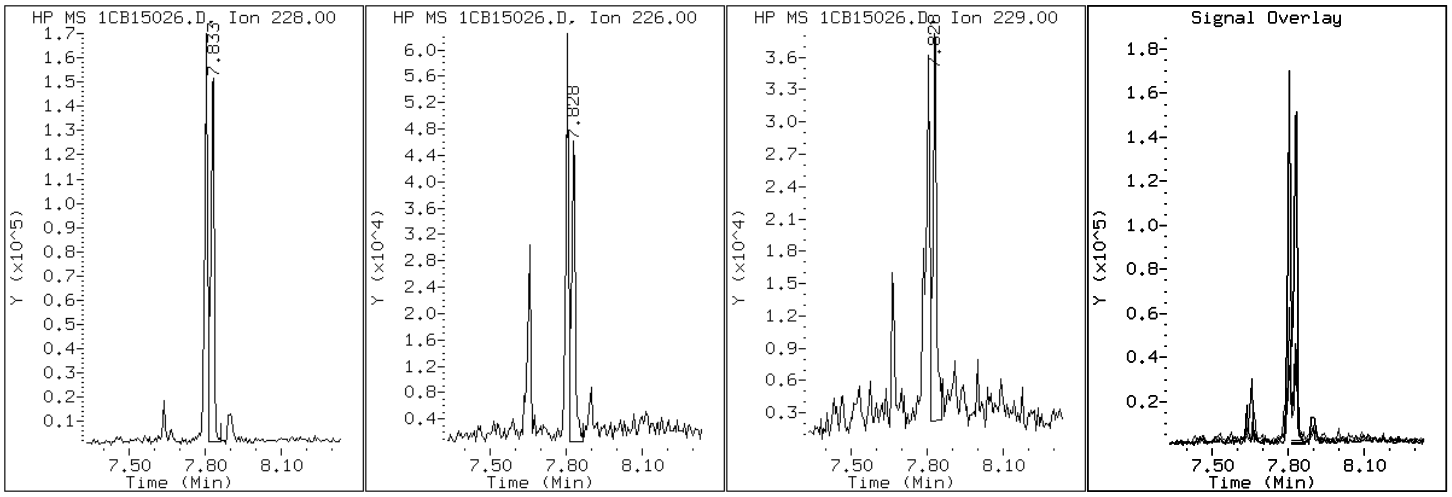
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

19 Chrysene



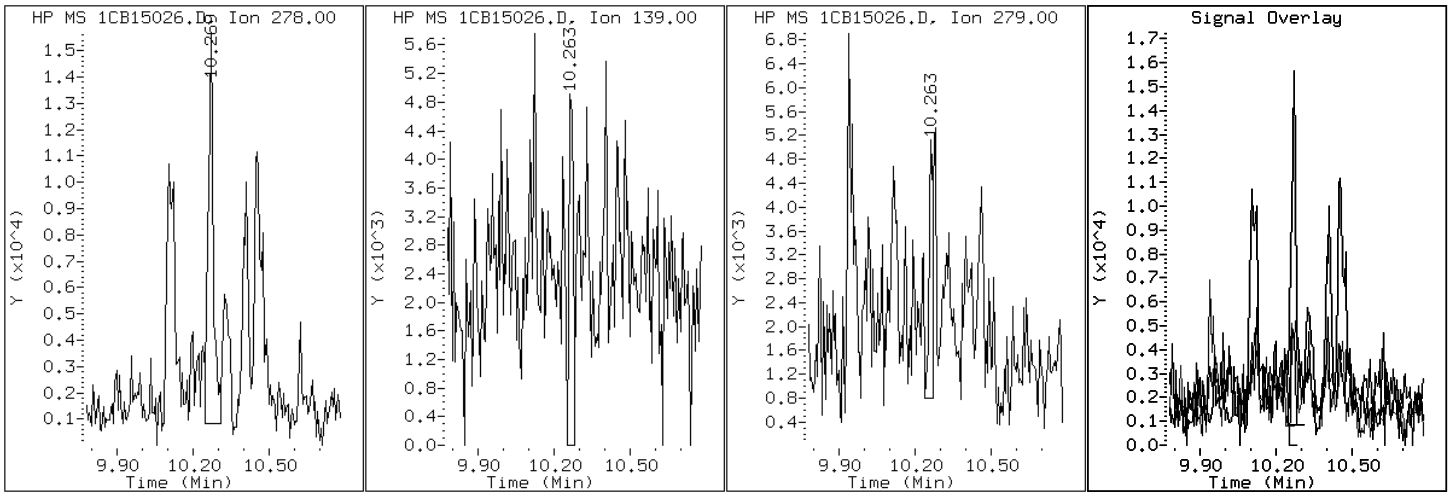
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

25 Dibenzo(a,h)anthracene



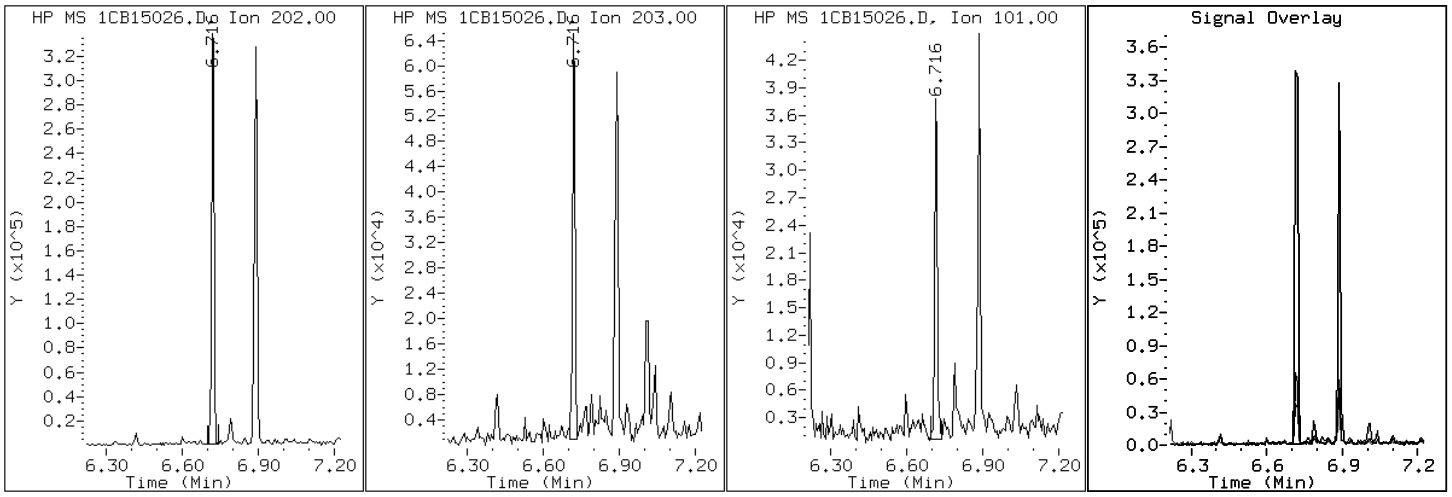
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

15 Fluoranthene



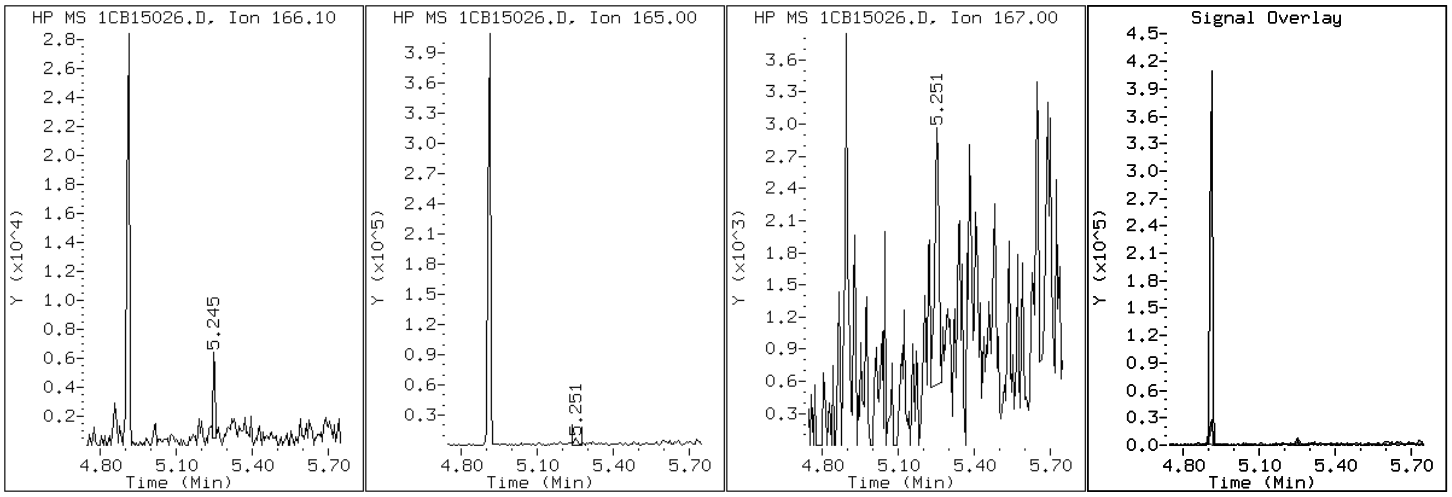
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

9 Fluorene



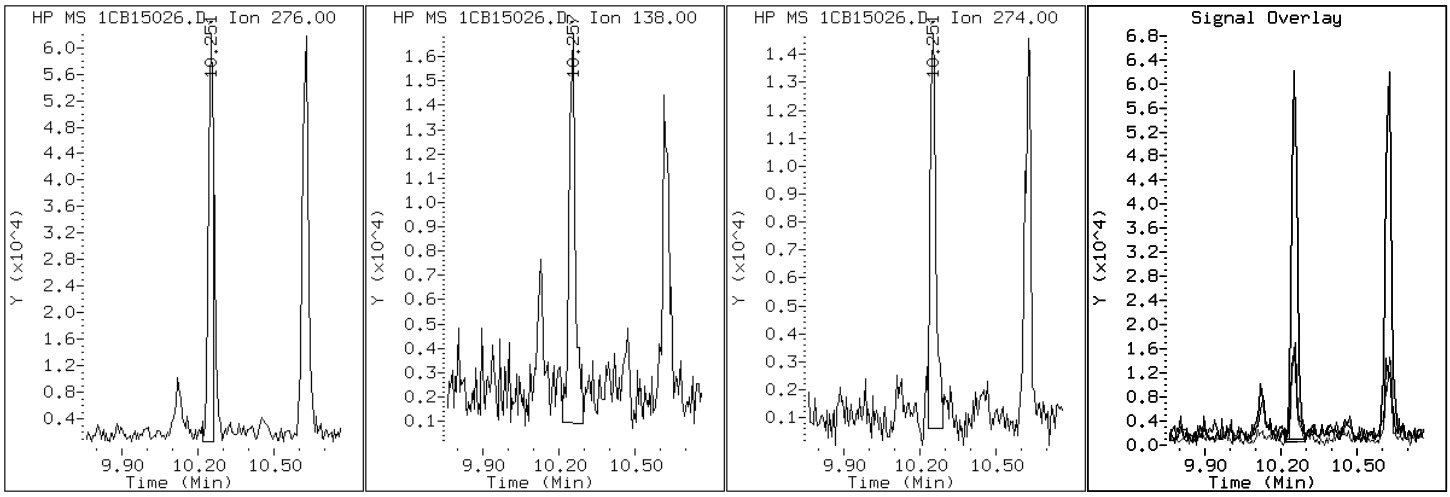
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

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



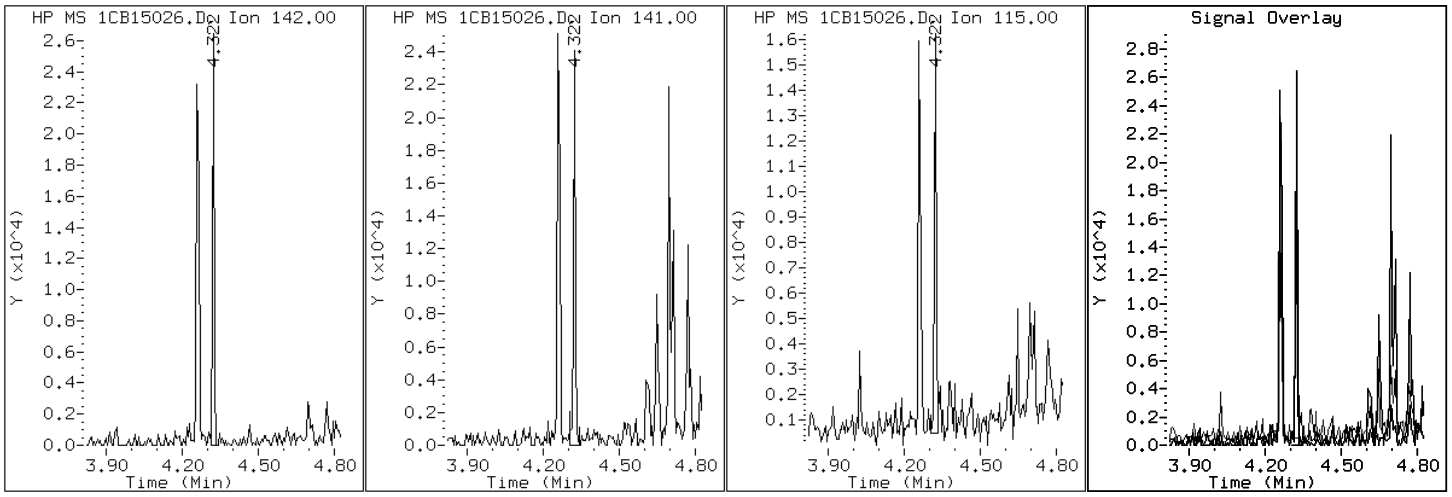
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

4 1-Methylnaphthalene



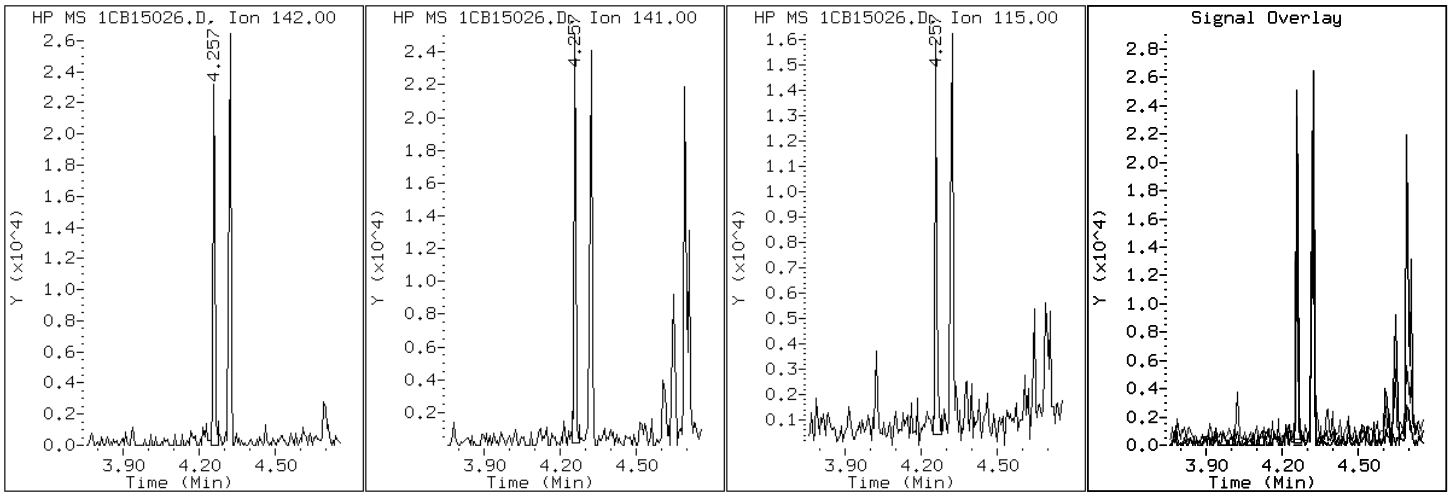
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

3 2-Methylnaphthalene



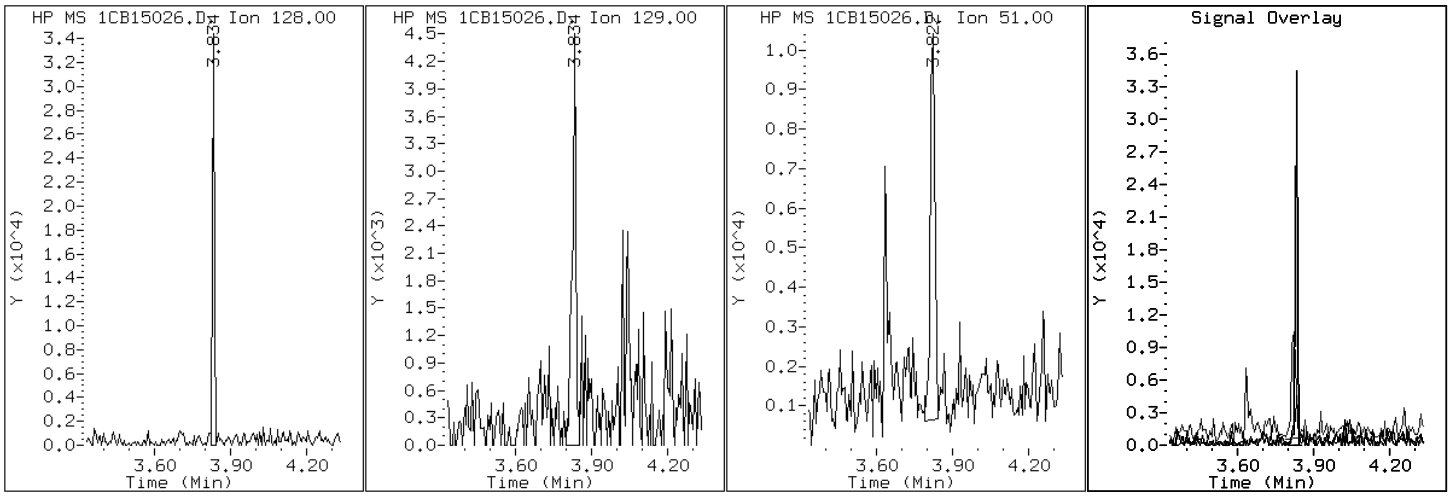
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

2 Naphthalene



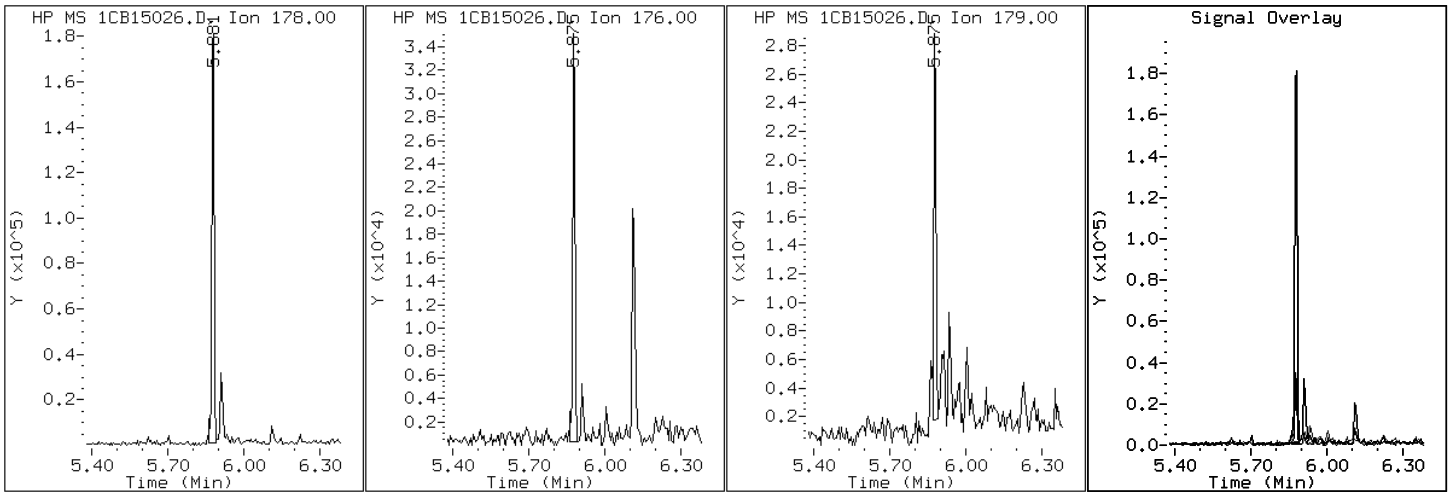
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

11 Phenanthrene



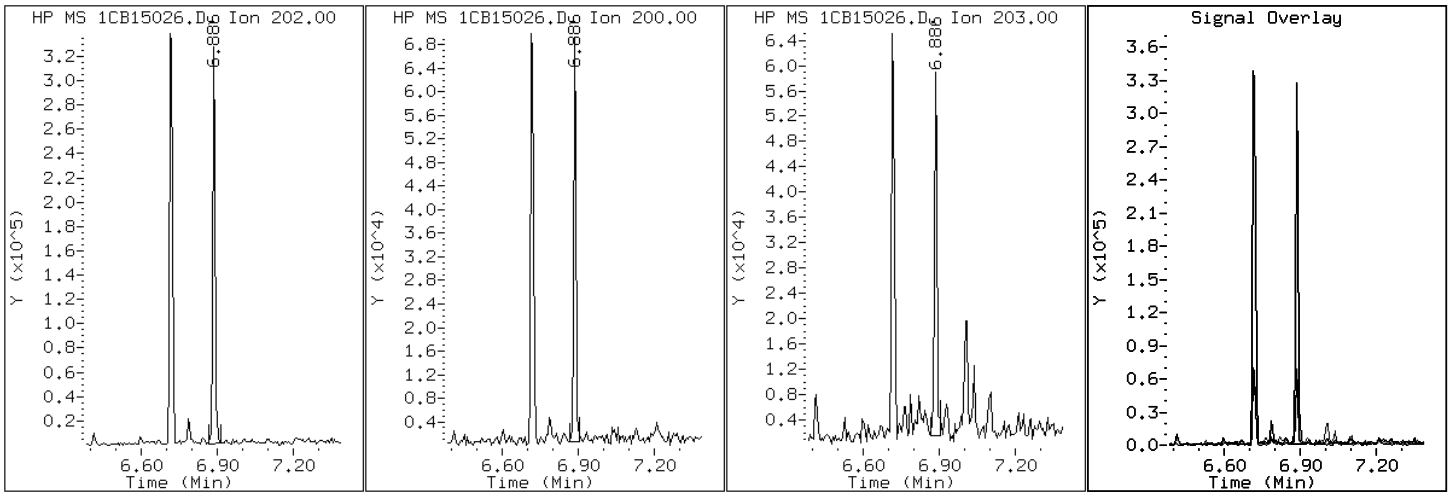
Data File: 1CB15026.D

Date: 15-FEB-2013 18:50

Client ID: CV0005M-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-18-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15026.D
Inj. Date and Time: 15-FEB-2013 18:50
Instrument ID: BSMC5973.i
Client ID: CV0005M-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

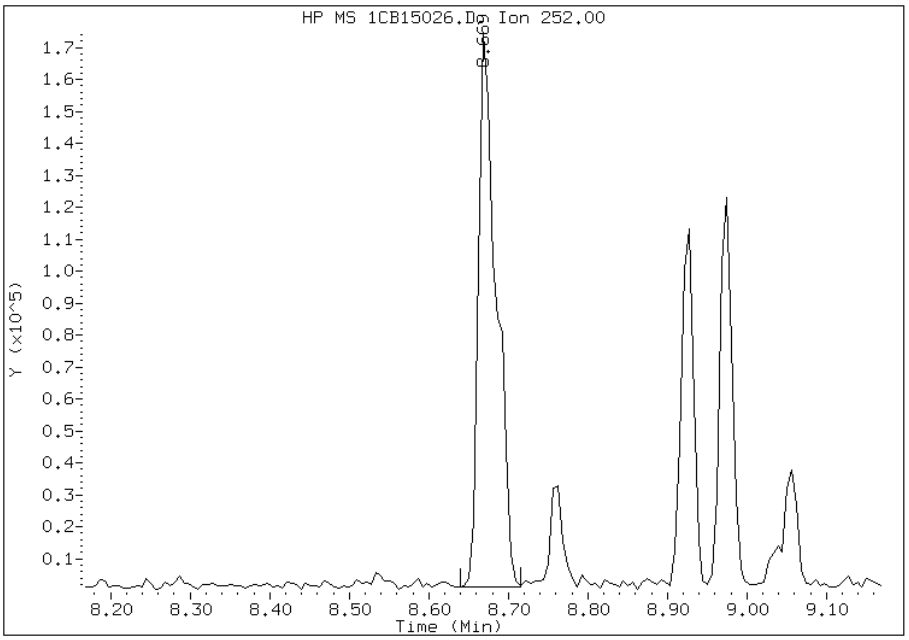
Processing Integration Results

RT: 8.67

Response: 272516

Amount: 3

Conc: 240



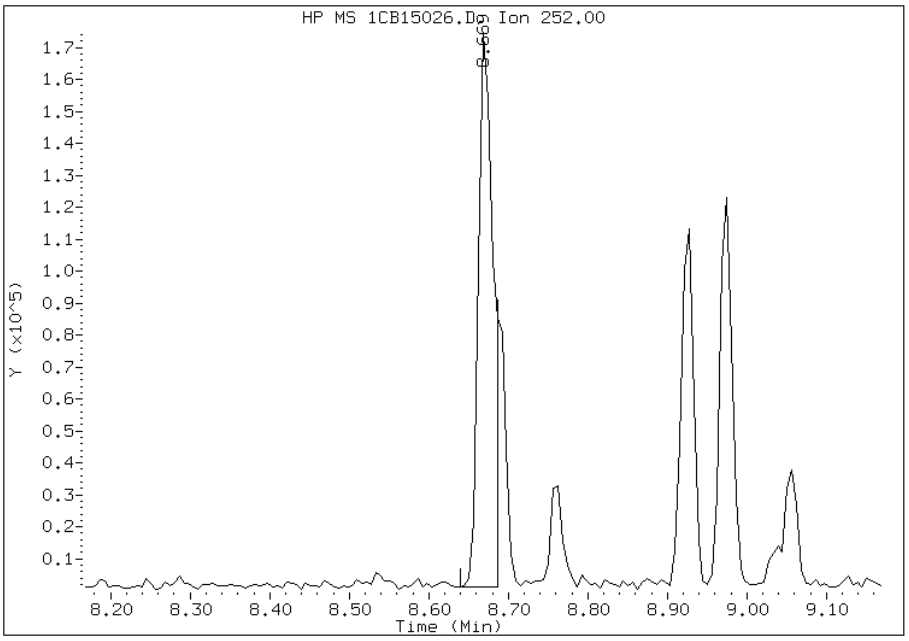
Manual Integration Results

RT: 8.67

Response: 224709

Amount: 3

Conc: 198



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15026.D
Inj. Date and Time: 15-FEB-2013 18:50
Instrument ID: BSMC5973.i
Client ID: CV0005M-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/19/2013

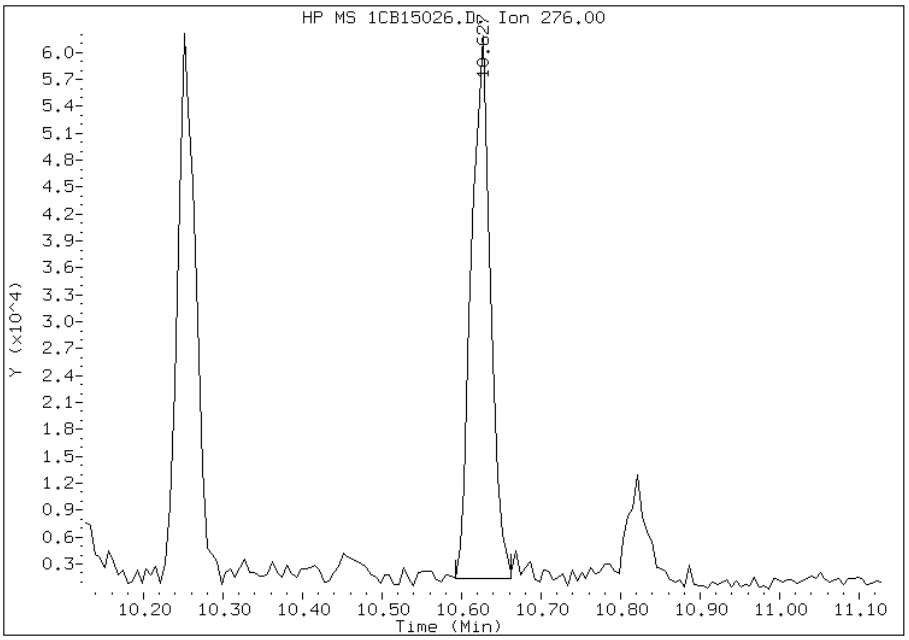
Processing Integration Results

RT: 10.63

Response: 99852

Amount: 1

Conc: 95



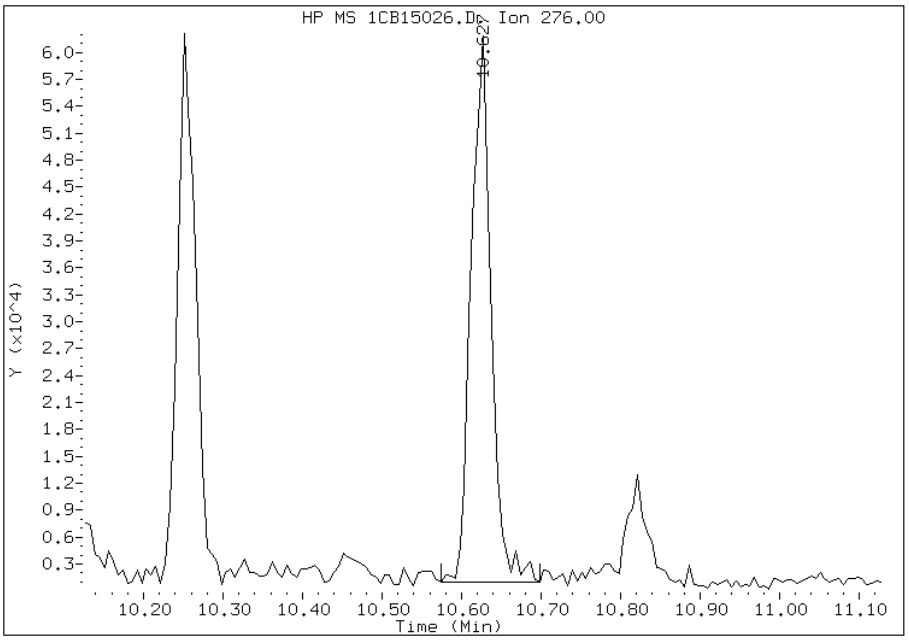
Manual Integration Results

RT: 10.63

Response: 105574

Amount: 1

Conc: 100



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15026.D
Inj. Date and Time: 15-FEB-2013 18:50
Instrument ID: BSMC5973.i
Client ID: CV0005M-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

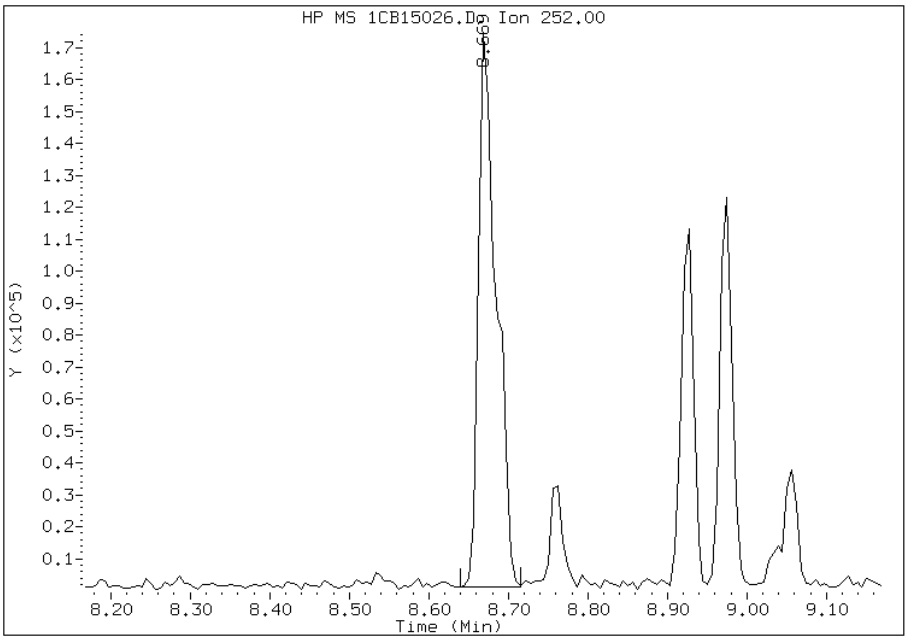
Processing Integration Results

RT: 8.67

Response: 272516

Amount: 3

Conc: 218



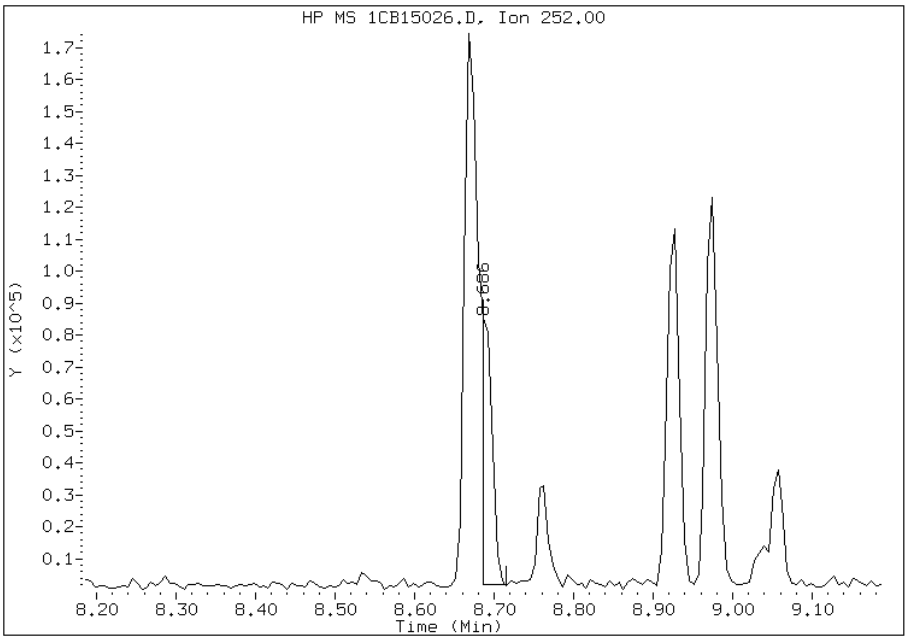
Manual Integration Results

RT: 8.69

Response: 75682

Amount: 1

Conc: 61



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15026.D
Inj. Date and Time: 15-FEB-2013 18:50
Instrument ID: BSMC5973.i
Client ID: CV0005M-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/19/2013

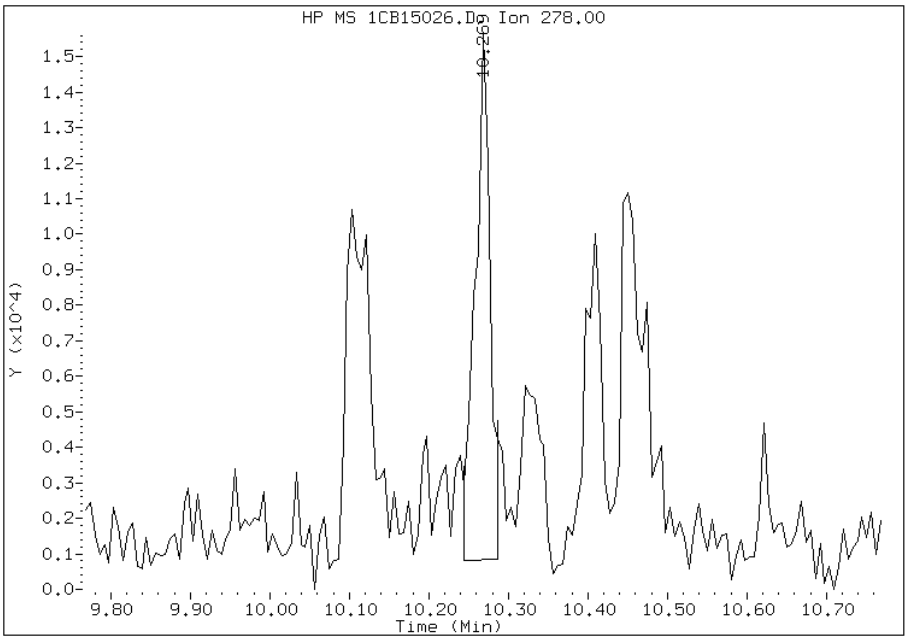
Processing Integration Results

RT: 10.27

Response: 19628

Amount: 0

Conc: 20



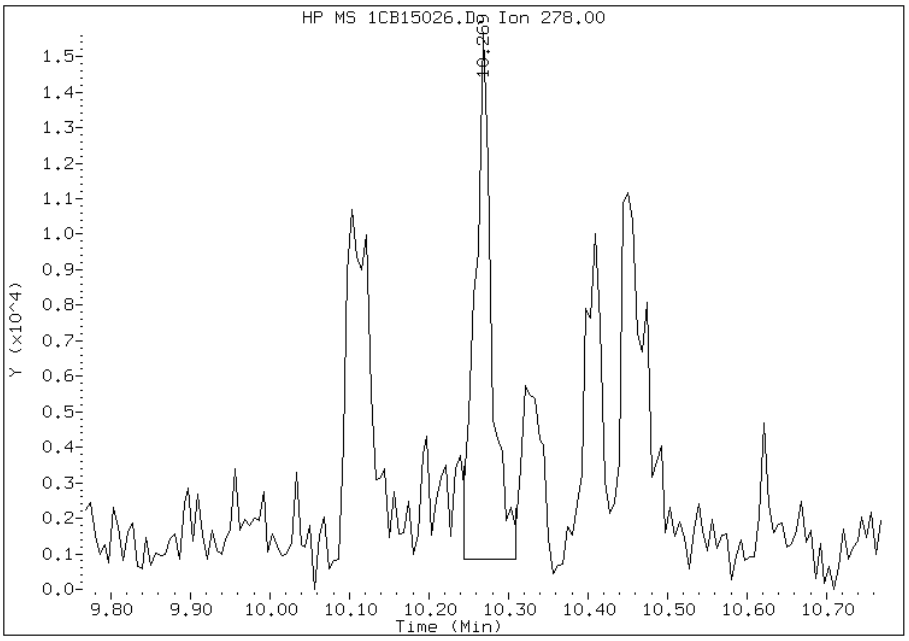
Manual Integration Results

RT: 10.27

Response: 21872

Amount: 0

Conc: 22



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15026.D
Inj. Date and Time: 15-FEB-2013 18:50
Instrument ID: BSMC5973.i
Client ID: CV0005M-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

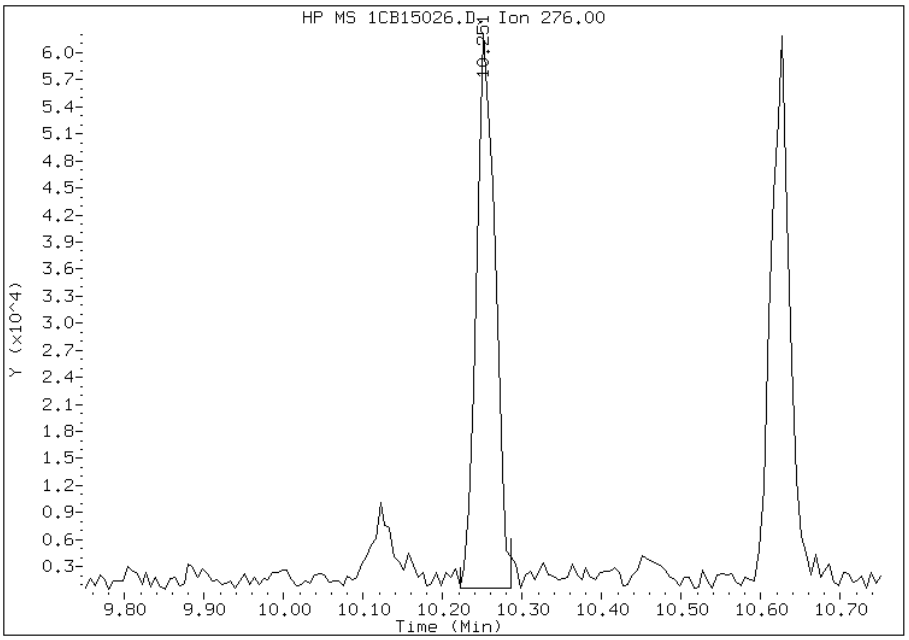
Processing Integration Results

RT: 10.25

Response: 100969

Amount: 1

Conc: 97



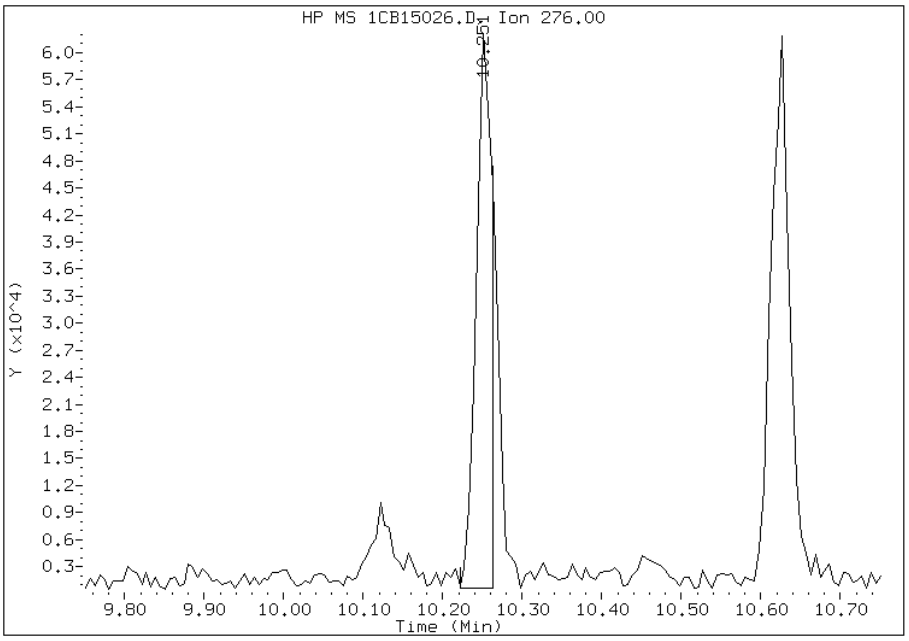
Manual Integration Results

RT: 10.25

Response: 83199

Amount: 1

Conc: 80



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005M-CSD | Lab Sample ID: 680-87318-19

Matrix: Solid | Lab File ID: 1CB15027.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 11:58

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.12(g) | Date Analyzed: 02/15/2013 19:08

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

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

% Moisture: 4.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	24	J	100	21
208-96-8	Acenaphthylene	11	J	41	5.2
120-12-7	Anthracene	53		8.7	4.4
56-55-3	Benzo[a]anthracene	170		8.3	4.0
50-32-8	Benzo[a]pyrene	160		11	5.4
205-99-2	Benzo[b]fluoranthene	270		13	6.3
191-24-2	Benzo[g,h,i]perylene	120		21	4.6
207-08-9	Benzo[k]fluoranthene	79		8.3	3.7
218-01-9	Chrysene	170		9.3	4.7
53-70-3	Dibenz(a,h)anthracene	28		21	4.2
206-44-0	Fluoranthene	410		21	4.1
86-73-7	Fluorene	23		21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	93		21	7.4
90-12-0	1-Methylnaphthalene	30	J	41	4.6
91-57-6	2-Methylnaphthalene	36	J	41	7.4
91-20-3	Naphthalene	59		41	4.6
85-01-8	Phenanthrene	270		8.3	4.0
129-00-0	Pyrene	360		21	3.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15027.D
Lab Smp Id: 680-87318-A-19-A Client Smp ID: CV0005M-CSD
Inj Date : 15-FEB-2013 19:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-19-a
Misc Info : 680-87318-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	4.228	% 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	3.822	3.821	(1.000)	2381951	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1872819	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3347764	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	293981	5.99320	413.8730
* 18 Chrysene-d12	240	7.810	7.815	(1.000)	3446048	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3240530	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	53998	0.85550	59.0783
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	21103	0.51419	35.5084
4 1-Methylnaphthalene	142	4.322	4.321	(1.131)	16442	0.44049	30.4190
5 Acenaphthylene	152	4.822	4.821	(0.982)	11553	0.15506	10.7077
7 Acenaphthene	154	4.927	4.927	(1.004)	16219	0.34707	23.9678
9 Fluorene	166	5.251	5.245	(1.069)	20103	0.33513	23.1428
11 Phenanthrene	178	5.874	5.880	(1.002)	397666	3.97951	274.8129
12 Anthracene	178	5.910	5.910	(1.008)	69083	0.76731	52.9883

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	(1.026)	50959	0.65162	44.9986
15 Fluoranthene	202	6.716	6.721	(1.145)	580195	5.94194	410.3329
16 Pyrene	202	6.886	6.886	(0.882)	476913	5.19840	358.9864
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	237446	2.49865	172.5497
19 Chrysene	228	7.833	7.833	(1.003)	246426	2.51044	173.3636
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	305349	3.84342	265.4152(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	99830	1.14059	78.7661(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	174702	2.31092	159.5852
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	97486	1.34258	92.7148(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	28170	0.41140	28.4101
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	128335	1.73995	120.1555

QC Flag Legend

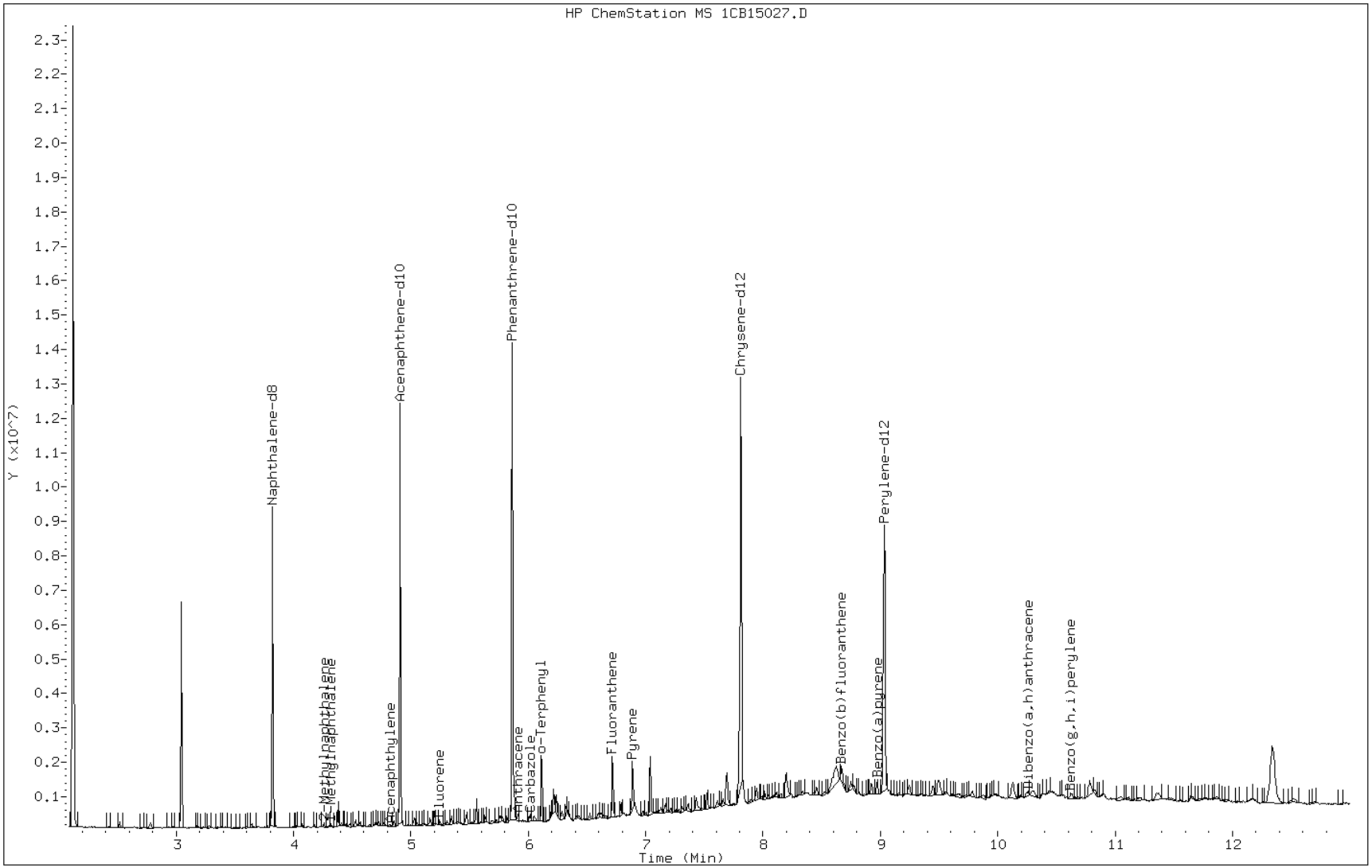
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC



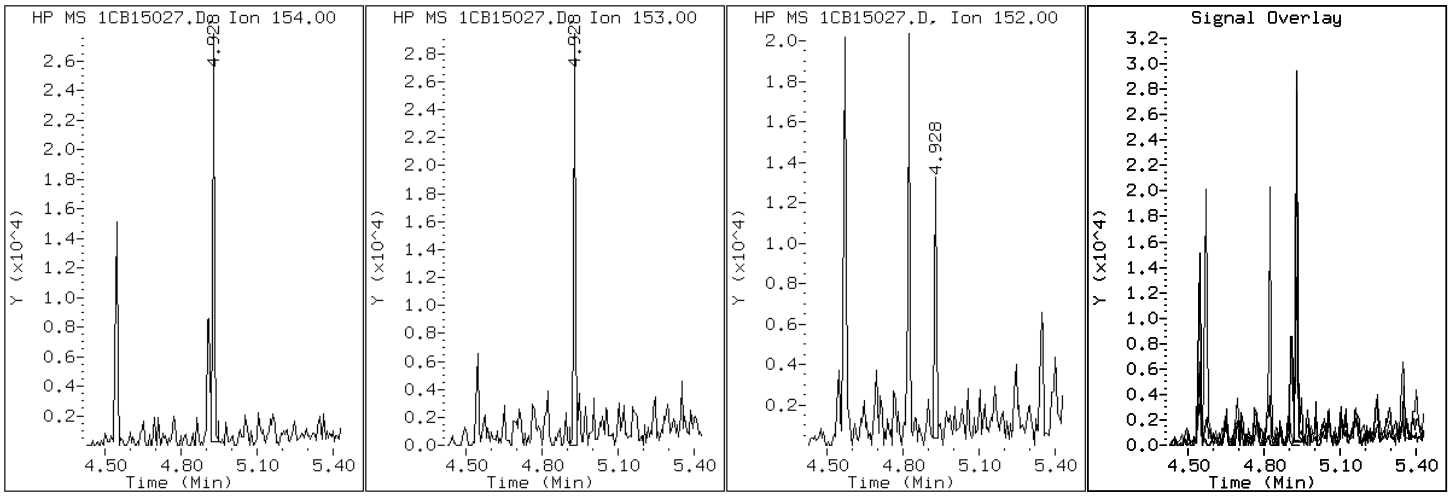
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

7 Acenaphthene



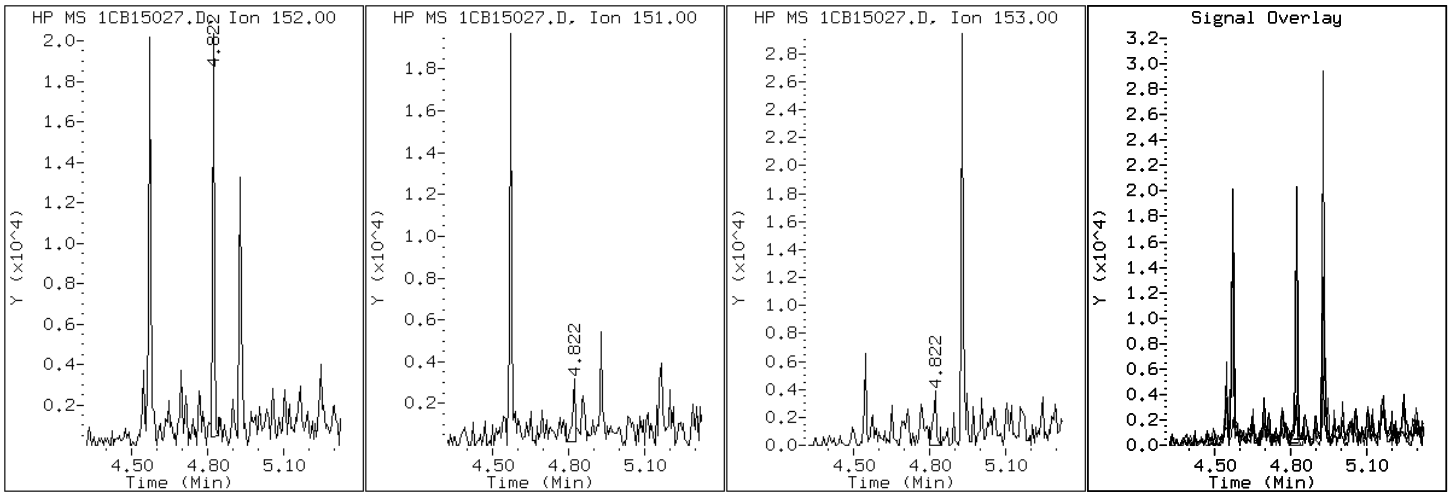
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

5 Acenaphthylene



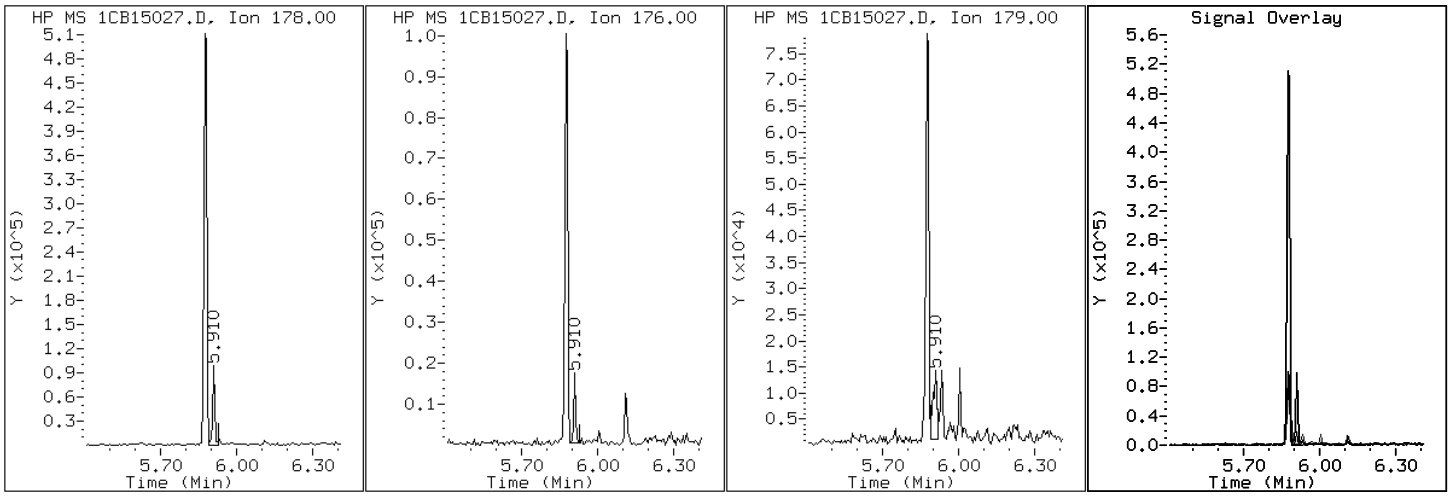
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

12 Anthracene



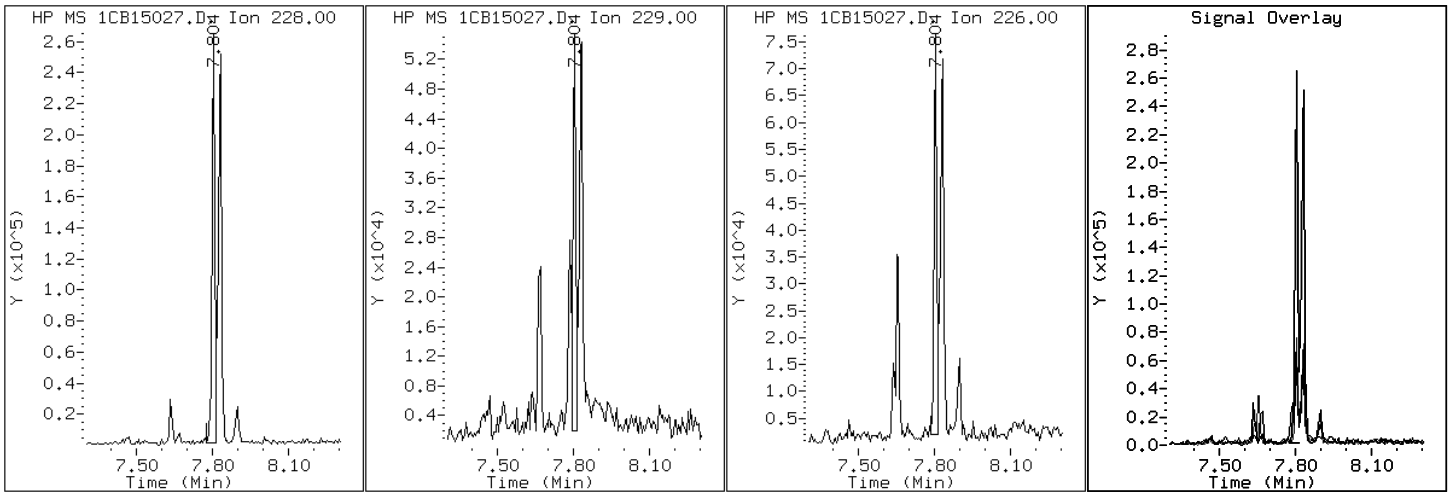
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

17 Benzo(a)anthracene



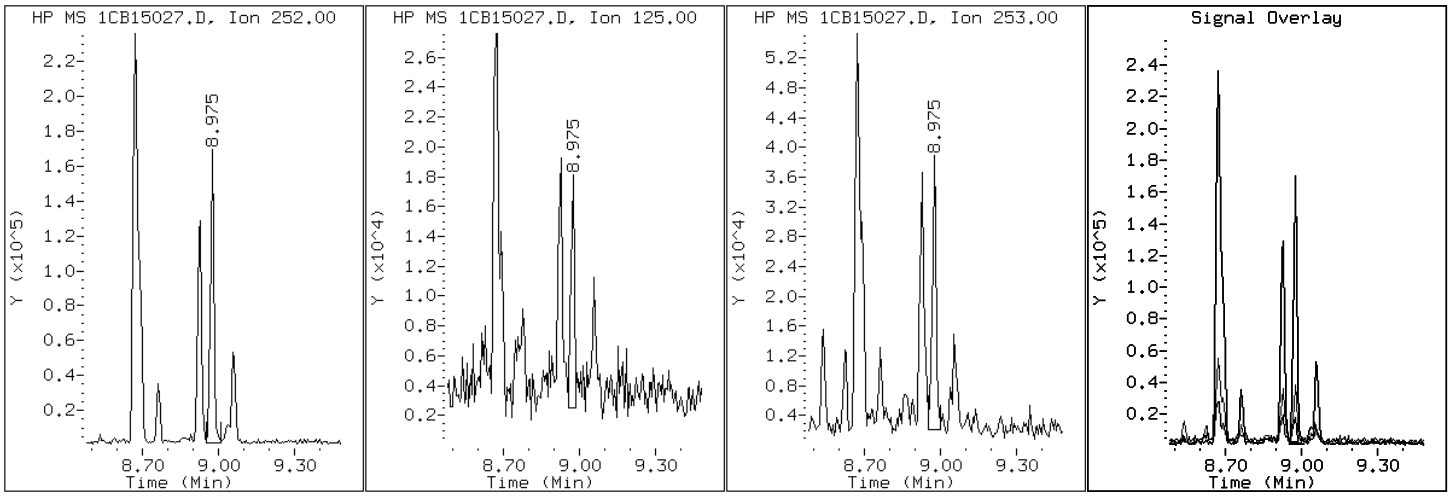
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

22 Benzo(a)pyrene



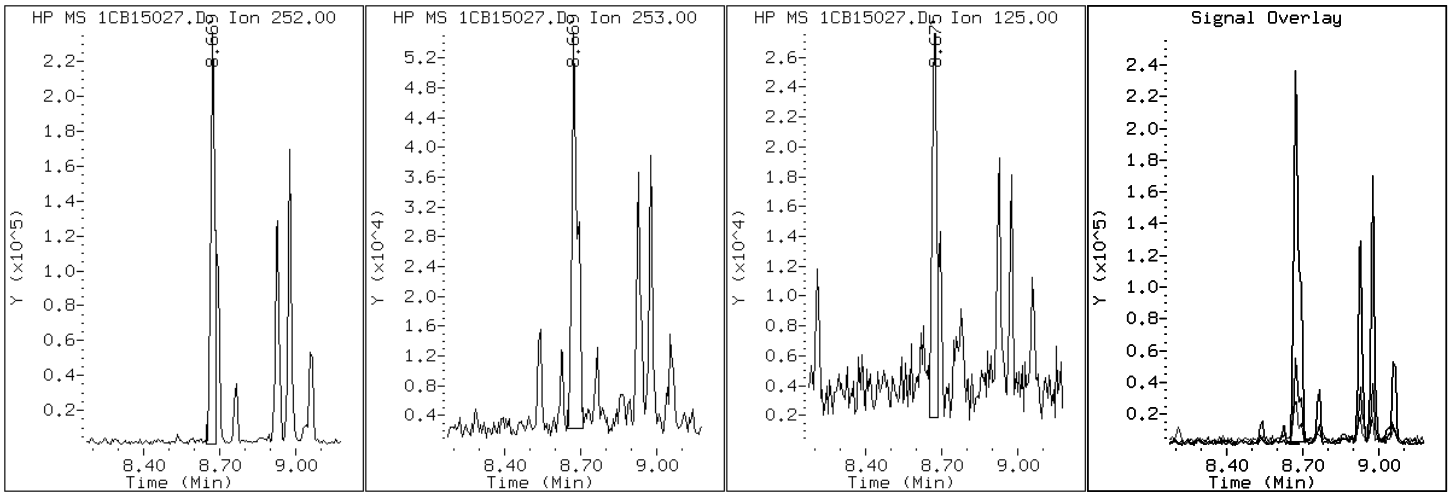
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

20 Benzo(b)fluoranthene



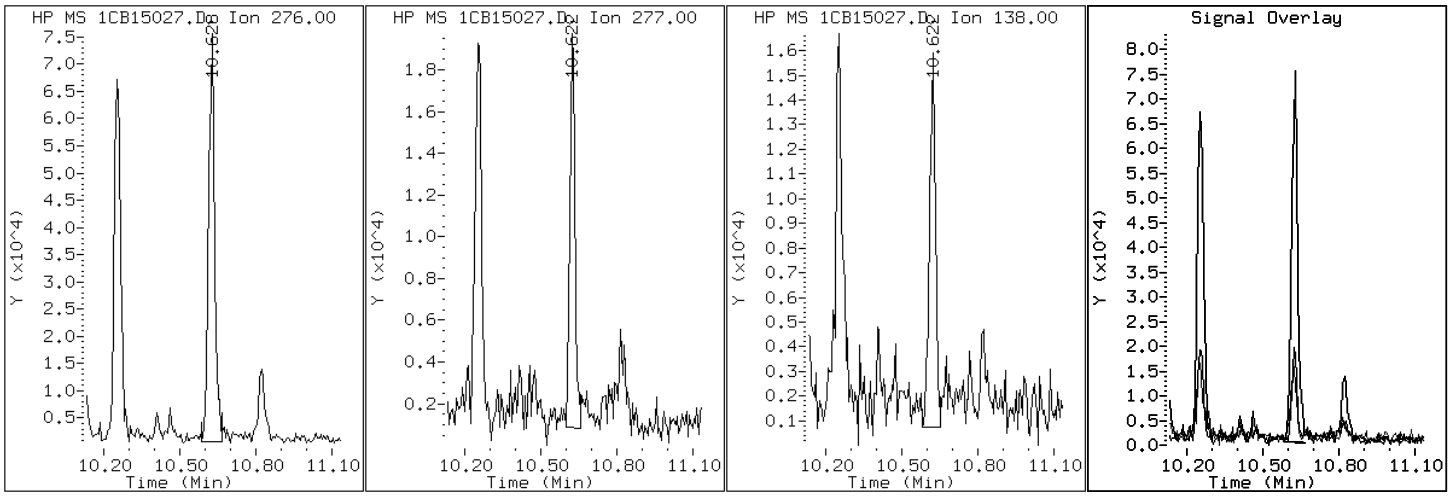
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

26 Benzo(g,h,i)perylene



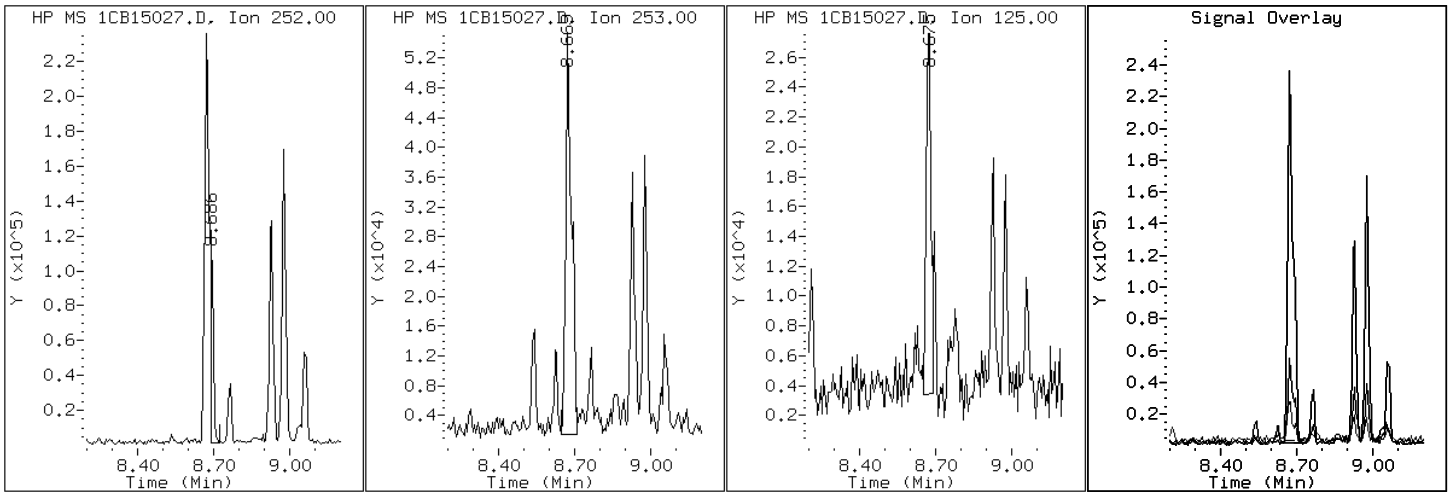
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

21 Benzo(k)fluoranthene



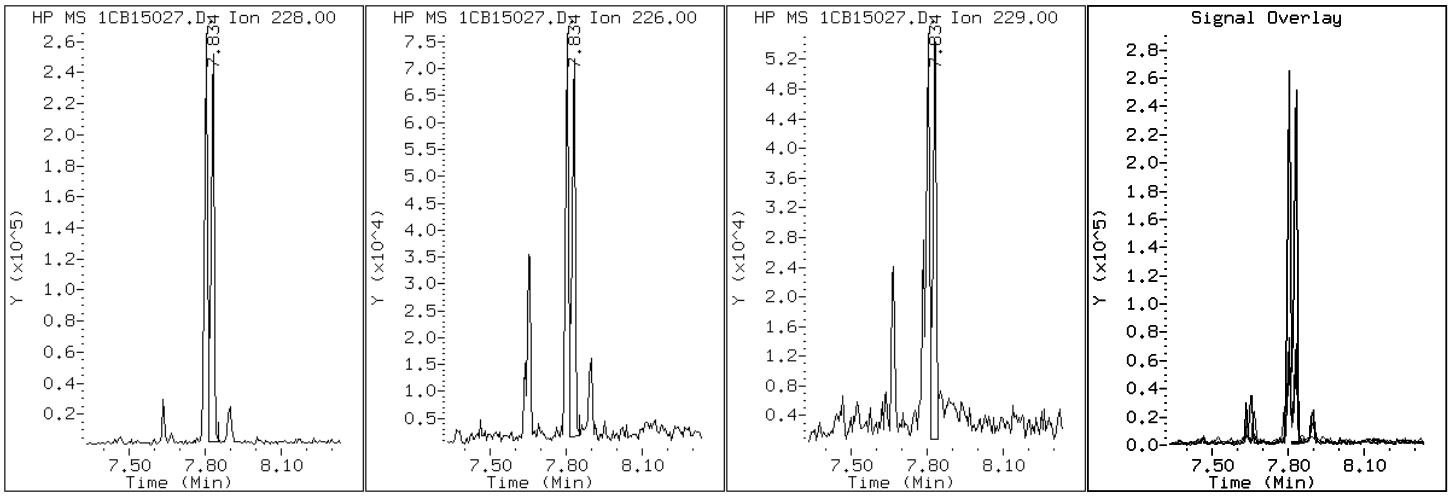
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

19 Chrysene



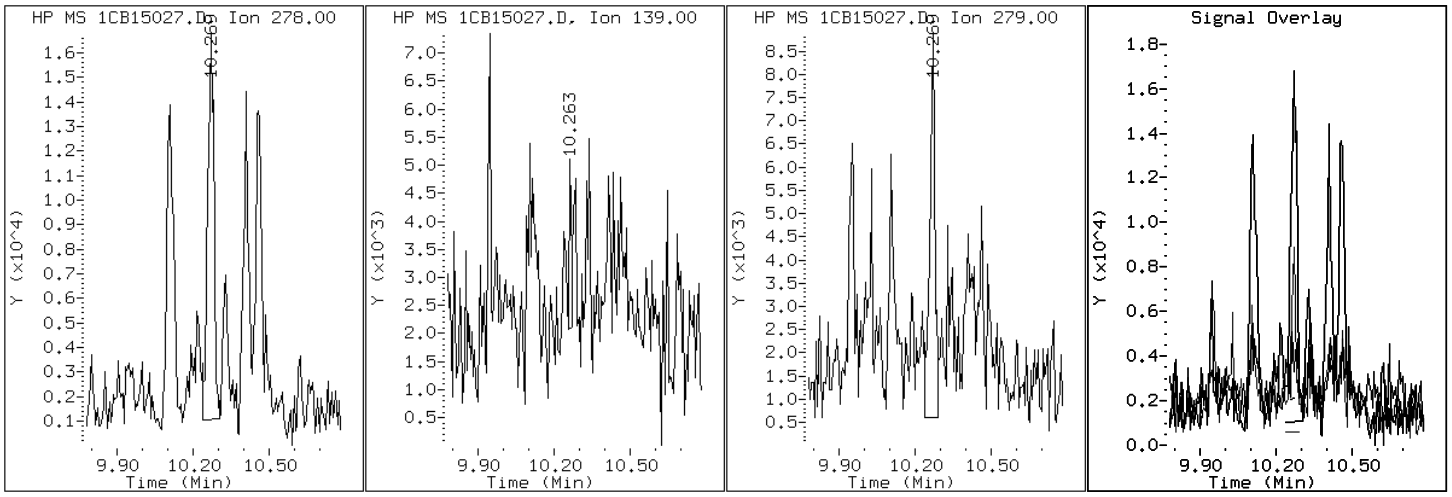
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

25 Dibenzo(a,h)anthracene



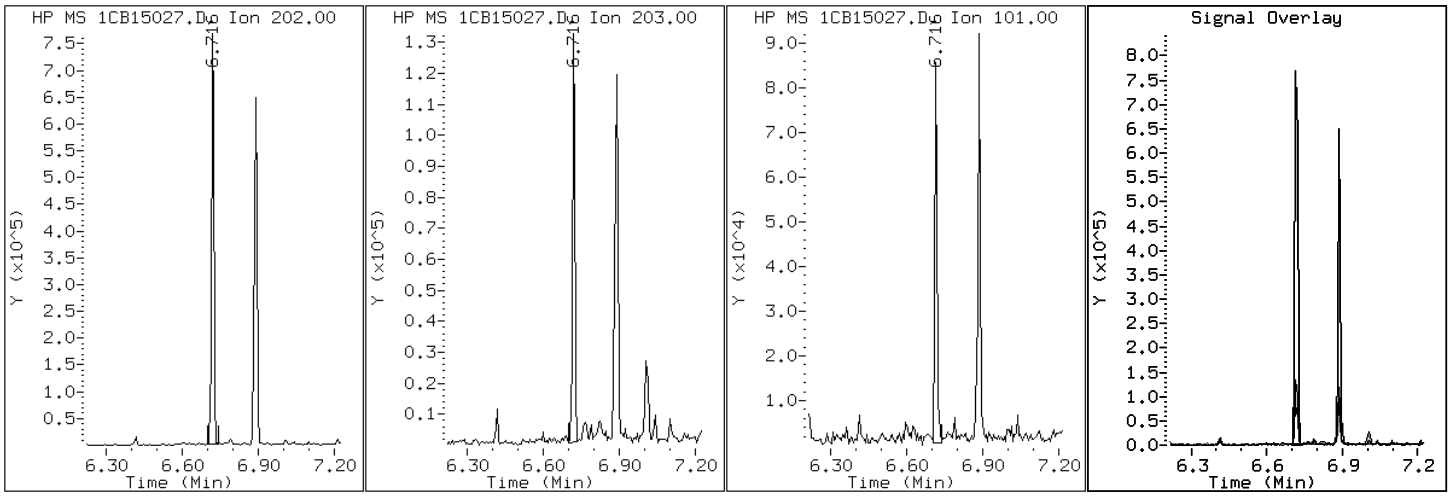
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

15 Fluoranthene



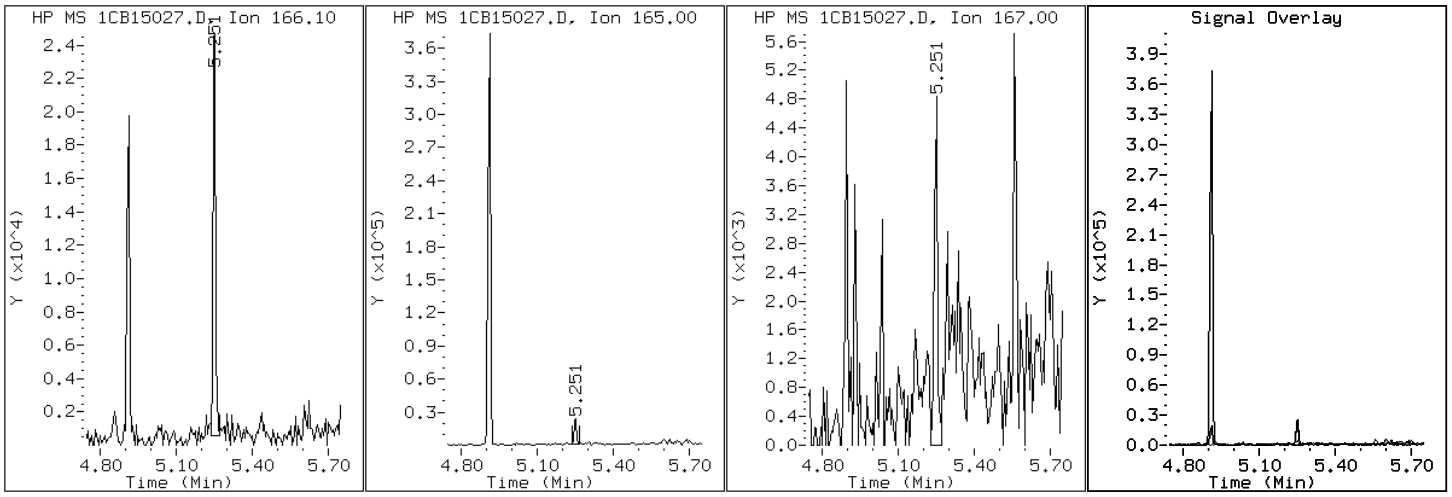
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

9 Fluorene



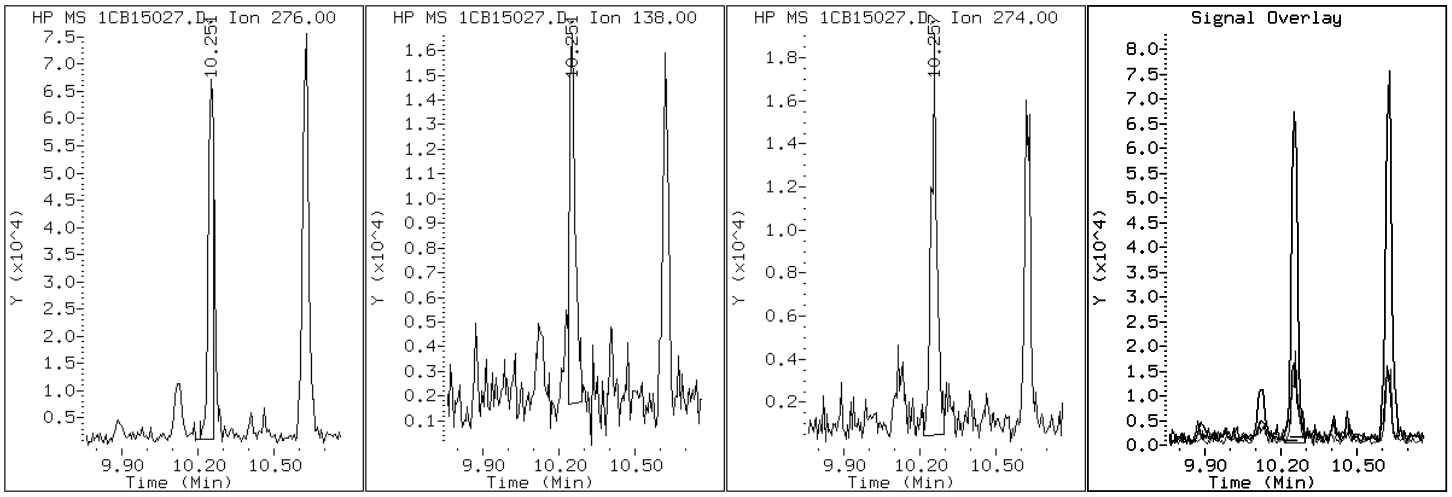
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD | Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a | Operator: SCC

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



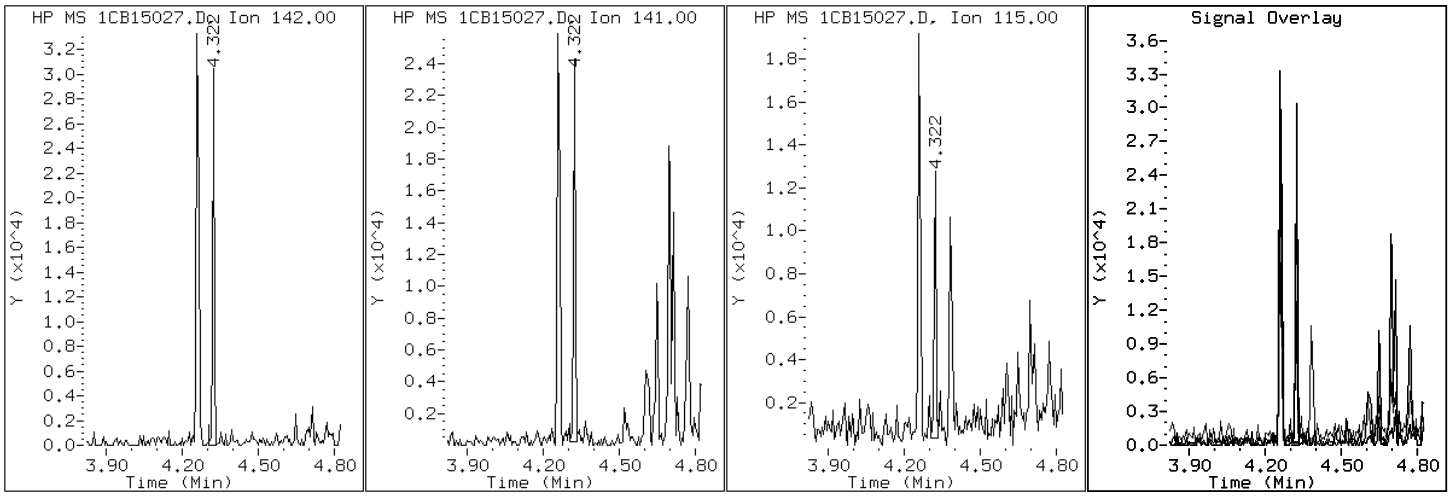
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

4 1-Methylnaphthalene



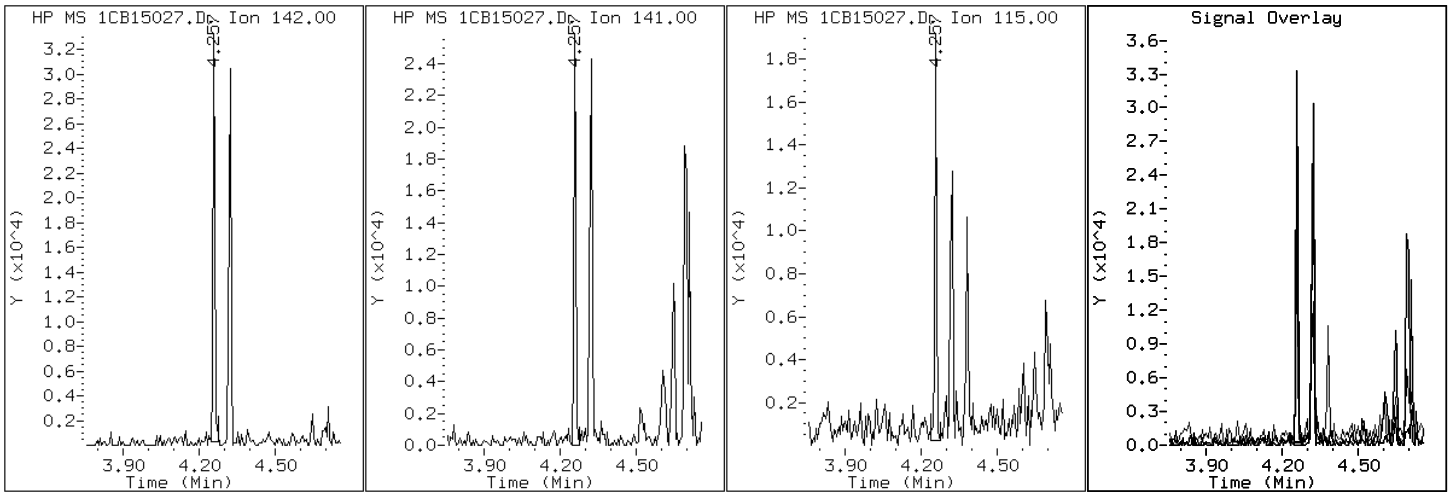
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

3 2-Methylnaphthalene



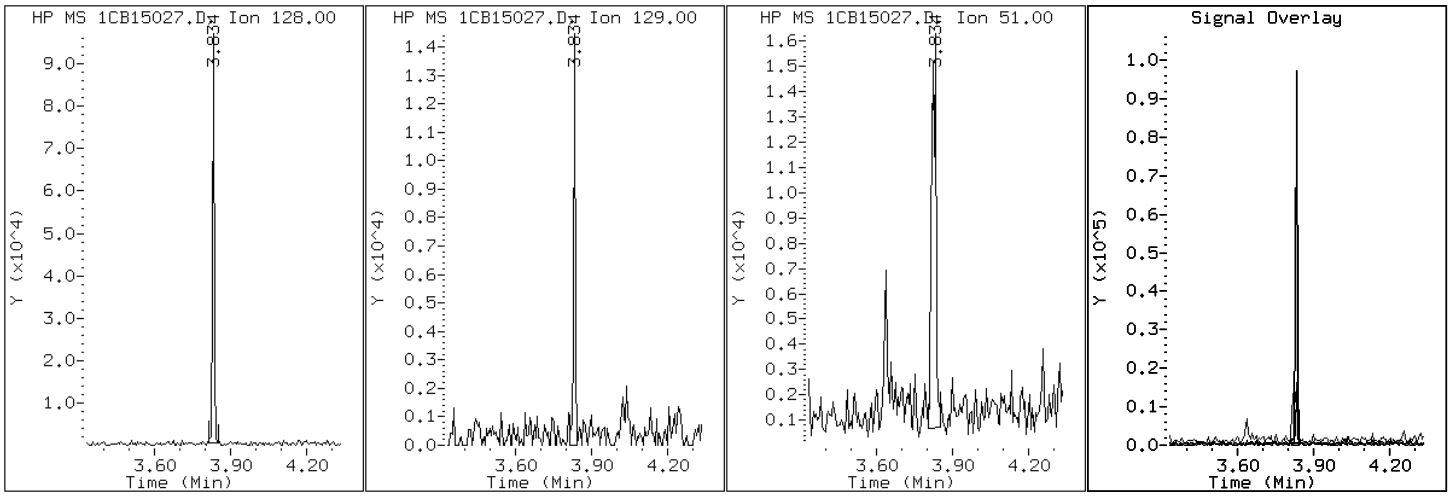
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

2 Naphthalene



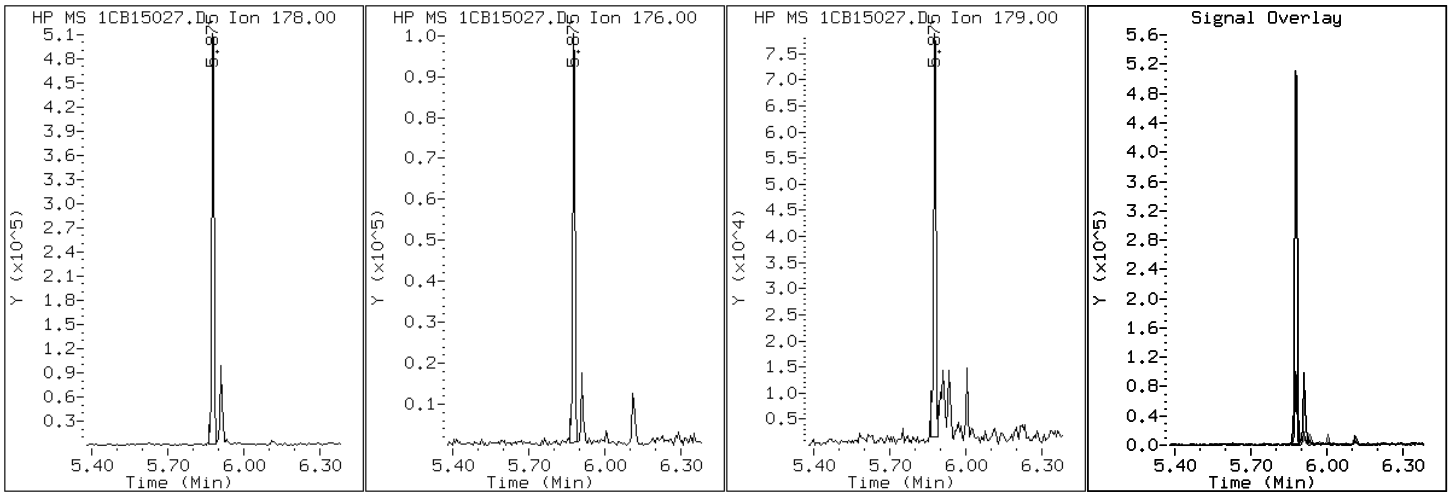
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

11 Phenanthrene



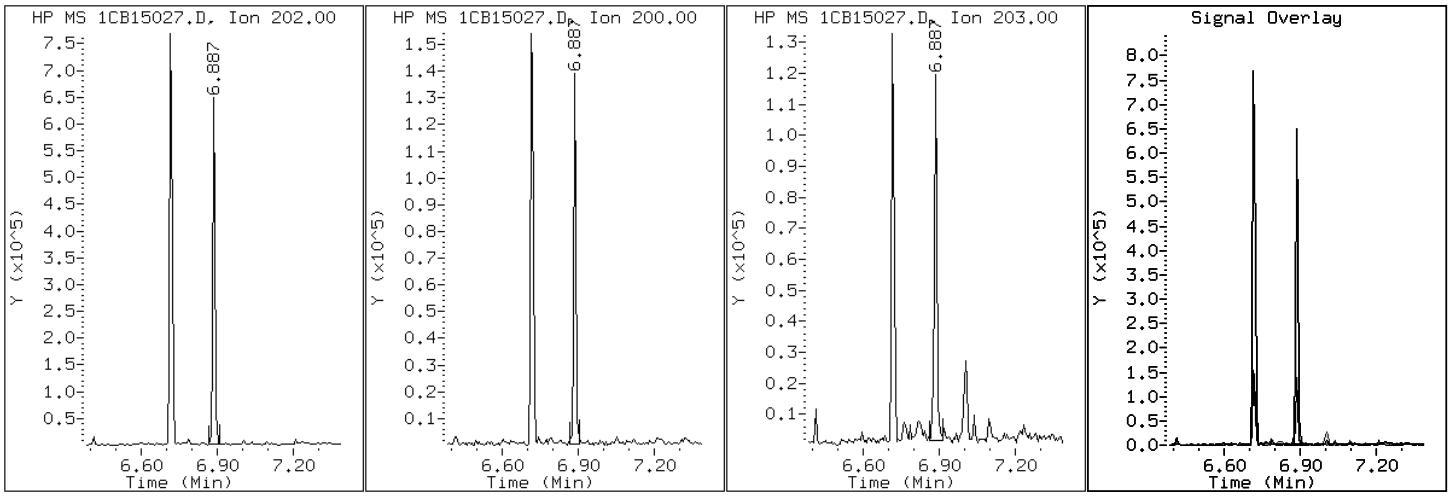
Data File: 1CB15027.D

Date: 15-FEB-2013 19:08

Client ID: CV0005M-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-19-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15027.D
Inj. Date and Time: 15-FEB-2013 19:08
Instrument ID: BSMC5973.i
Client ID: CV0005M-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

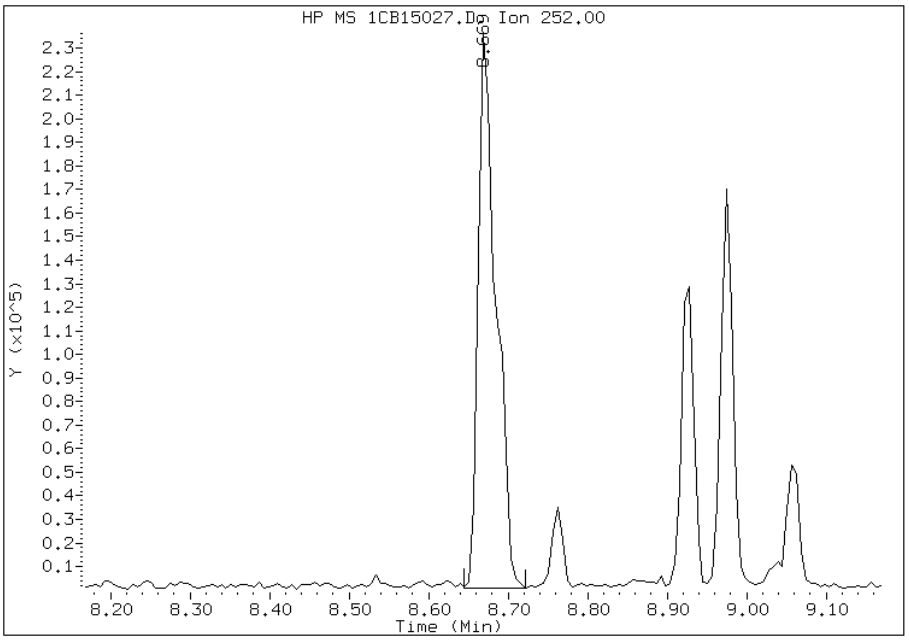
Processing Integration Results

RT: 8.67

Response: 366851

Amount: 5

Conc: 319



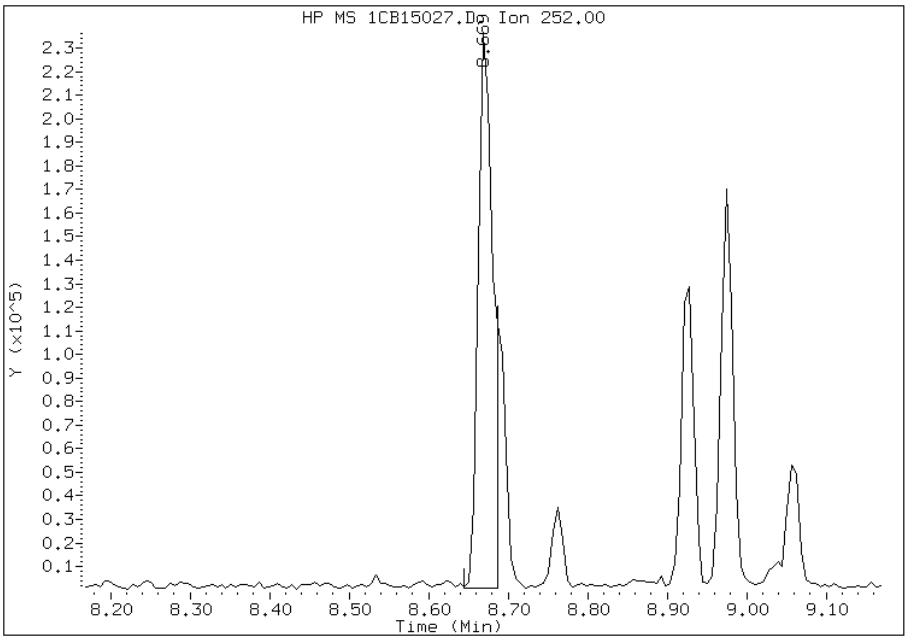
Manual Integration Results

RT: 8.67

Response: 305349

Amount: 4

Conc: 265



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:13
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15027.D
Inj. Date and Time: 15-FEB-2013 19:08
Instrument ID: BSMC5973.i
Client ID: CV0005M-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

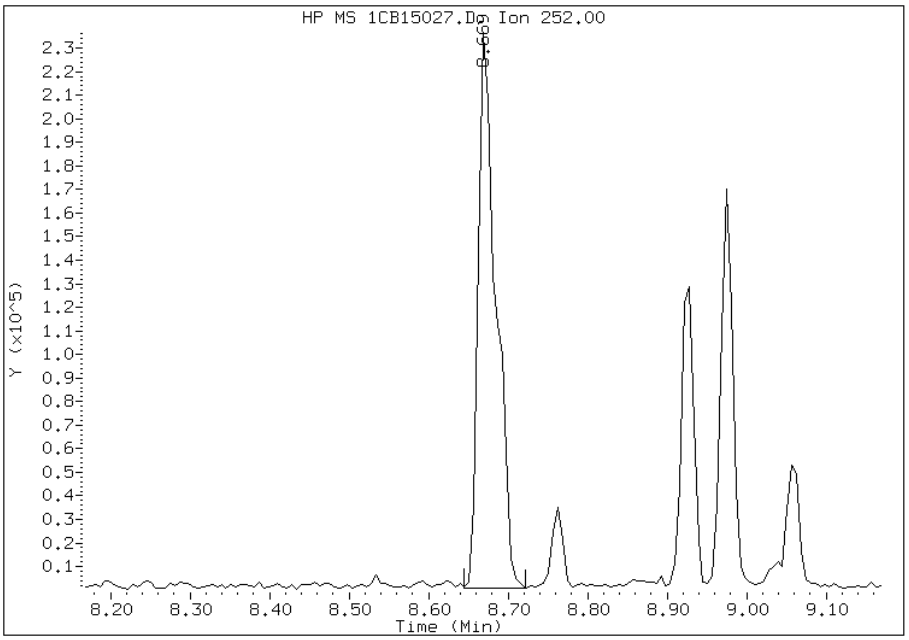
Processing Integration Results

RT: 8.67

Response: 366864

Amount: 4

Conc: 289



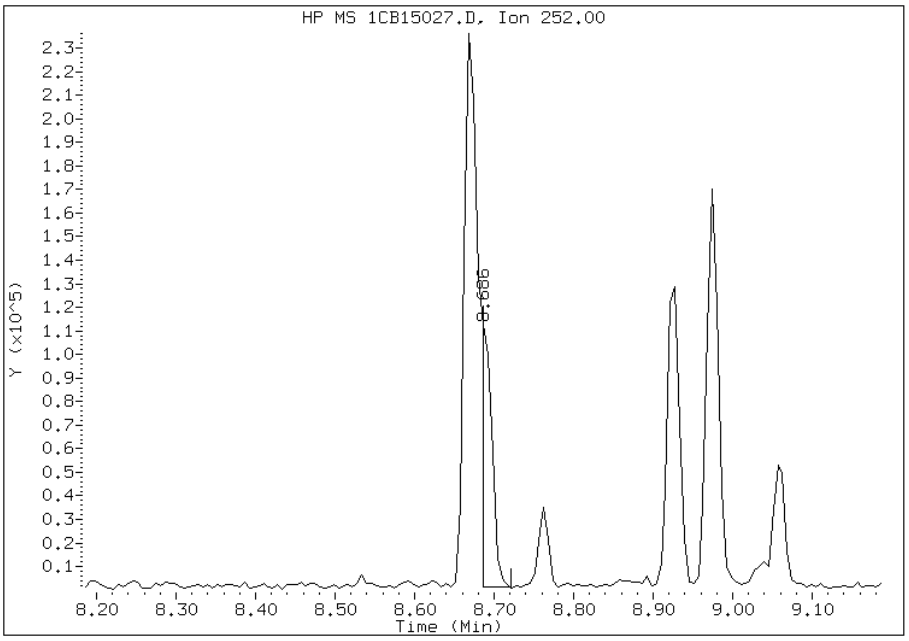
Manual Integration Results

RT: 8.69

Response: 99830

Amount: 1

Conc: 79



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15027.D
Inj. Date and Time: 15-FEB-2013 19:08
Instrument ID: BSMC5973.i
Client ID: CV0005M-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

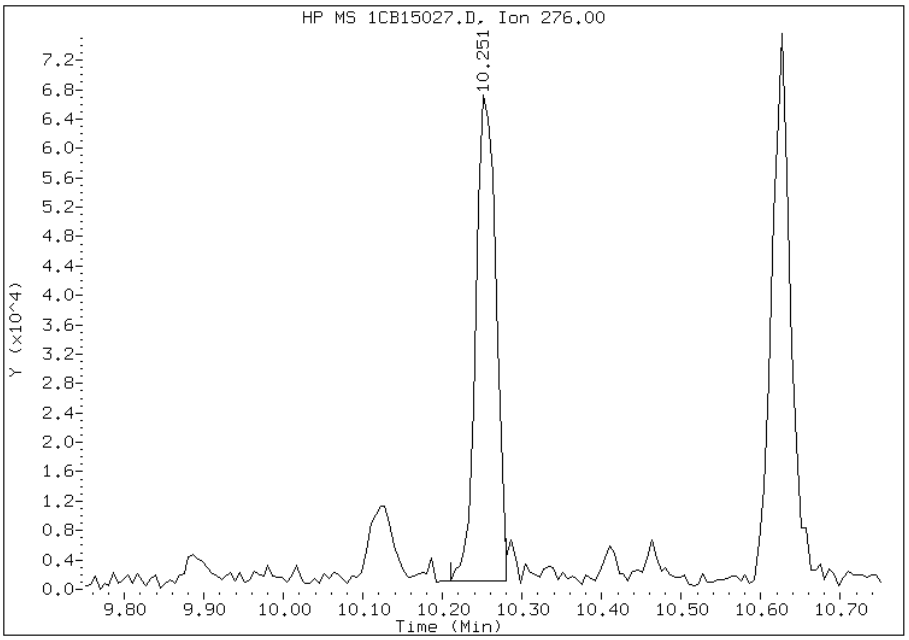
Processing Integration Results

RT: 10.25

Response: 115632

Amount: 2

Conc: 110



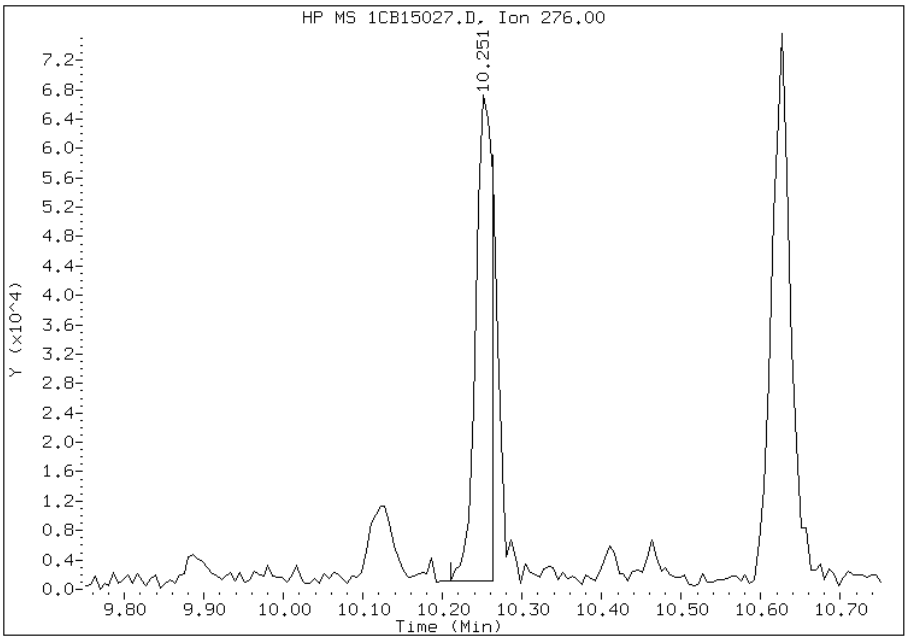
Manual Integration Results

RT: 10.25

Response: 97486

Amount: 1

Conc: 93



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005N-CS | Lab Sample ID: 680-87318-20

Matrix: Solid | Lab File ID: 1CB15028.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 12:03

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 14.99(g) | Date Analyzed: 02/15/2013 19:26

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

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

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	18	J	47	5.9
120-12-7	Anthracene	30		9.9	4.9
56-55-3	Benzo[a]anthracene	180		9.4	4.6
50-32-8	Benzo[a]pyrene	190		12	6.1
205-99-2	Benzo[b]fluoranthene	310		14	7.2
191-24-2	Benzo[g,h,i]perylene	150		23	5.2
207-08-9	Benzo[k]fluoranthene	110		9.4	4.2
218-01-9	Chrysene	190		11	5.3
53-70-3	Dibenz(a,h)anthracene	44		23	4.8
206-44-0	Fluoranthene	330		23	4.7
86-73-7	Fluorene	7.4	J	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	110		23	8.3
90-12-0	1-Methylnaphthalene	53		47	5.2
91-57-6	2-Methylnaphthalene	52		47	8.3
91-20-3	Naphthalene	49		47	5.2
85-01-8	Phenanthrene	140		9.4	4.6
129-00-0	Pyrene	310		23	4.3

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\1C021513.b\1CB15028.D
Lab Smp Id: 680-87318-A-20-A Client Smp ID: CV0005N-CS
Inj Date : 15-FEB-2013 19:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-20-a
Misc Info : 680-87318-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	14.715	% 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	3.822	3.821	(1.000)	2536554	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1990002	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3532800	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	367954	7.10836	556.0229
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3603007	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3302394	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	41903	0.62341	48.7640
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	29146	0.66688	52.1639
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	27059	0.68074	53.2485
5 Acenaphthylene	152	4.821	4.821	(0.982)	18597	0.23490	18.3739
9 Fluorene	166	5.251	5.245	(1.069)	6035	0.09468	7.4061(Q)
11 Phenanthrene	178	5.874	5.880	(1.002)	193549	1.83543	143.5690
12 Anthracene	178	5.910	5.910	(1.008)	36277	0.38183	29.8670
13 Carbazole	167	6.015	6.015	(1.026)	25940	0.31432	24.5867

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	438313	4.25378	332.7347
16 Pyrene	202	6.886	6.886	(0.882)	374804	3.90743	305.6432
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	230001	2.31487	181.0718
19 Chrysene	228	7.833	7.833	(1.003)	251892	2.45434	191.9807
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	318035	3.92811	307.2606(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	126339	1.41643	110.7945(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	188443	2.44599	191.3276
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	106395	1.43783	112.4685(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	38947	0.55814	43.6580
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	147935	1.96811	153.9474(M)

QC Flag Legend

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

Data File: 1CB15028.D

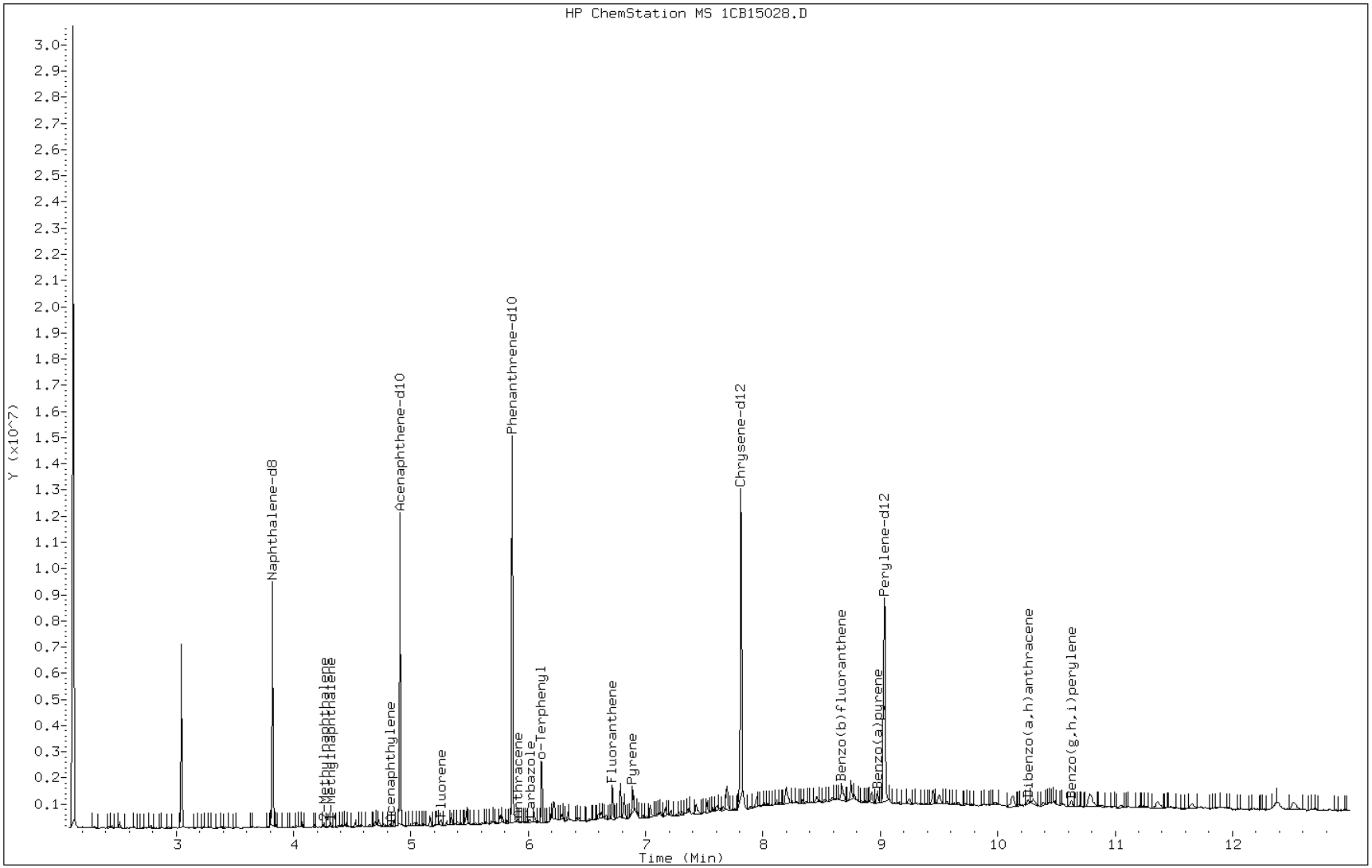
Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a

Operator: SCC



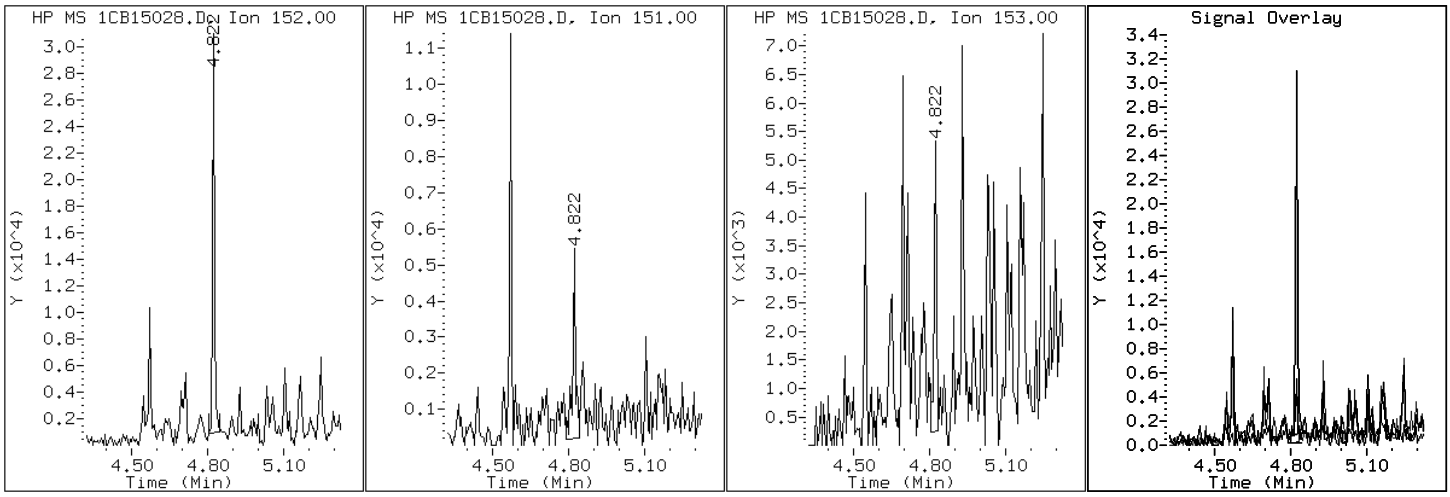
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

5 Acenaphthylene



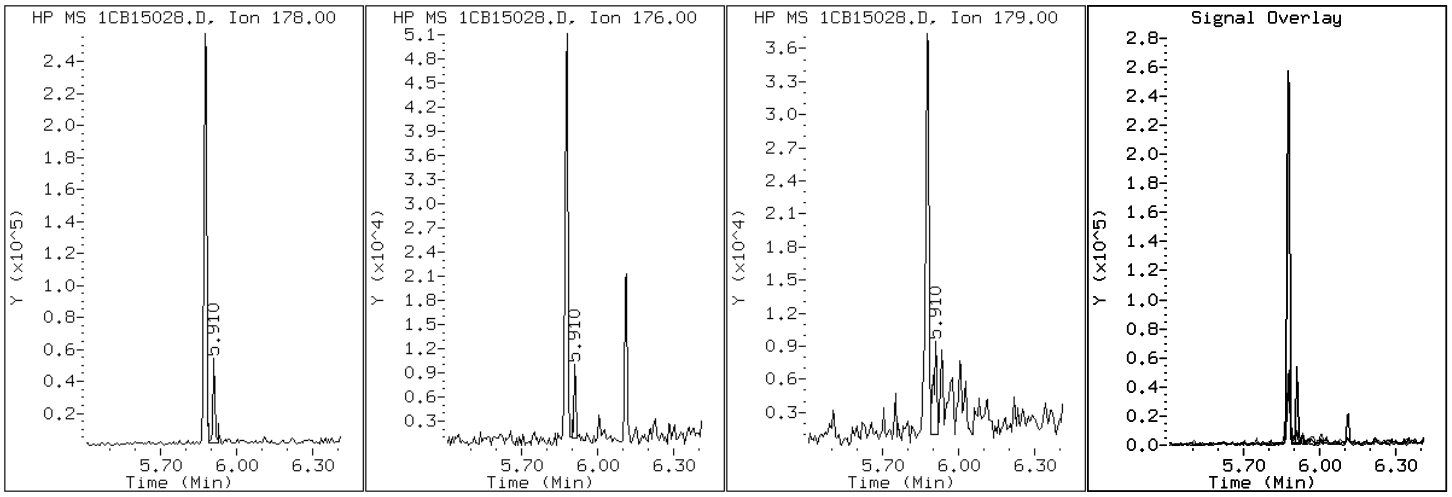
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

12 Anthracene



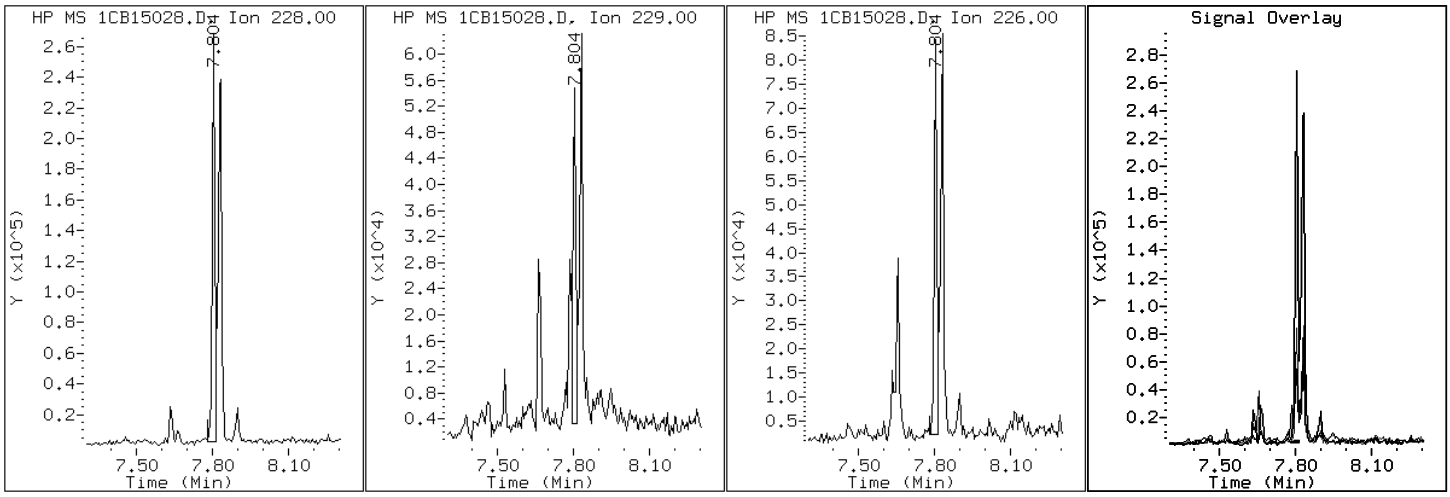
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

17 Benzo(a)anthracene



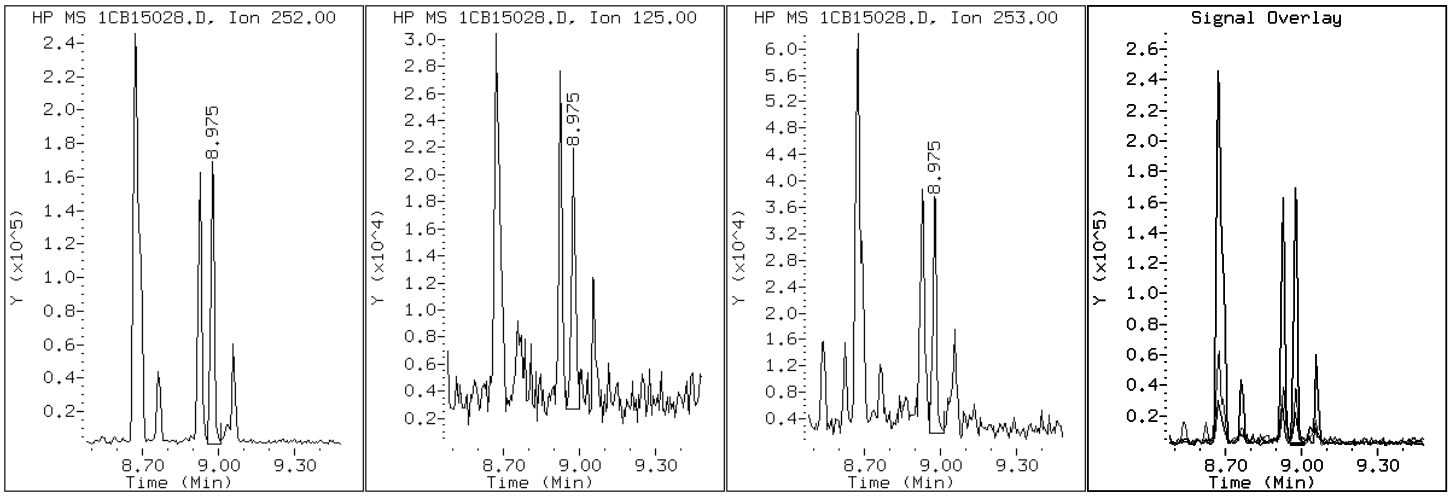
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

22 Benzo(a)pyrene



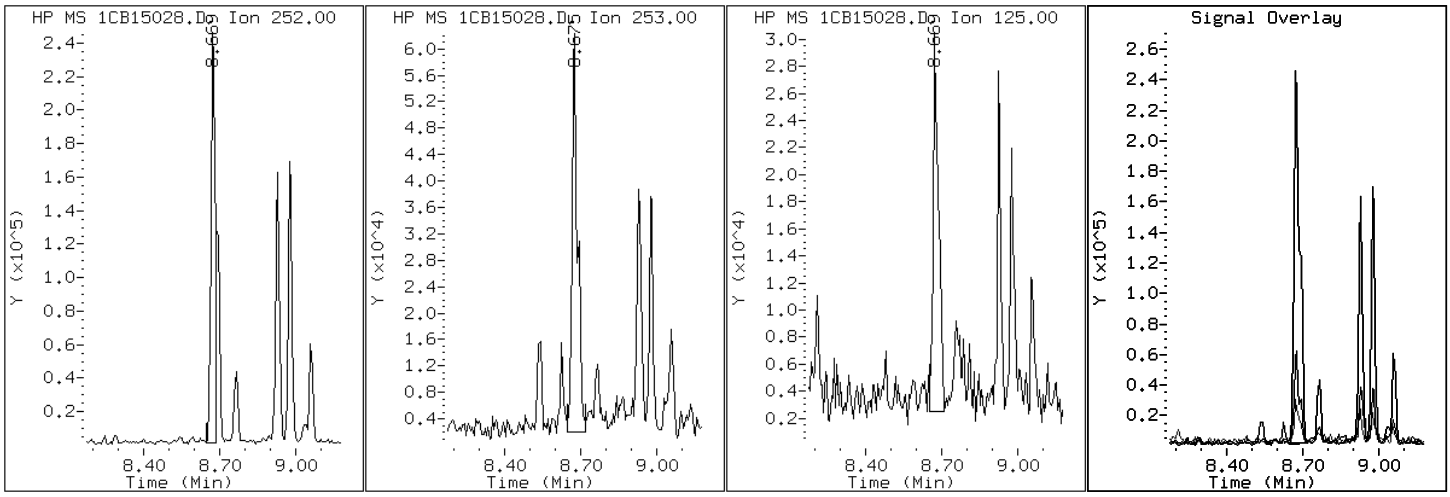
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

20 Benzo(b)fluoranthene



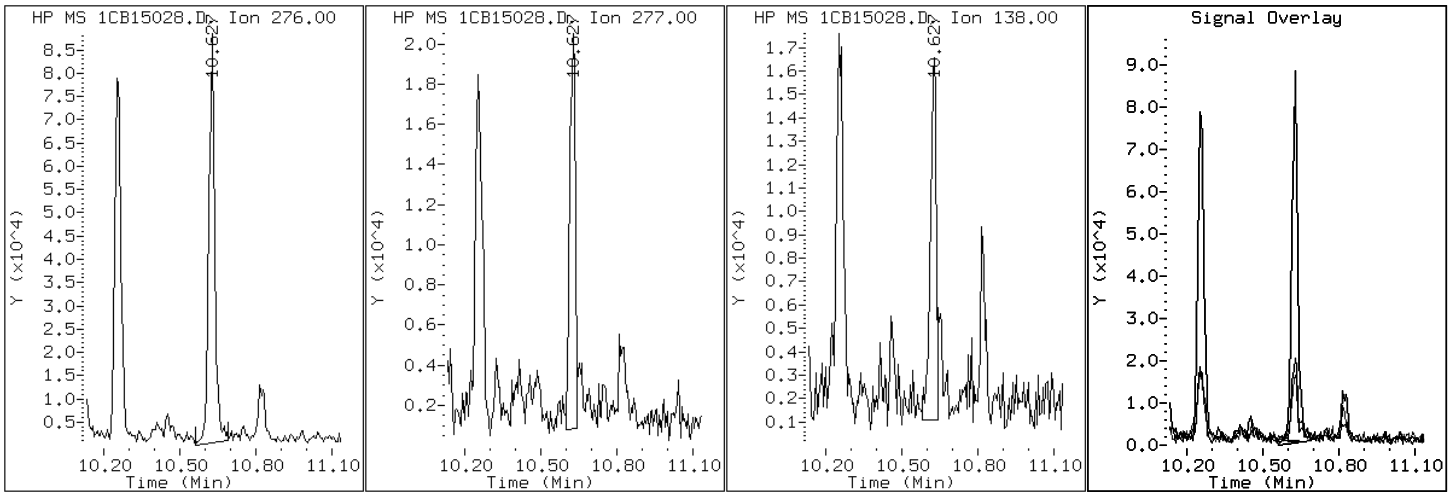
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

26 Benzo(g,h,i)perylene



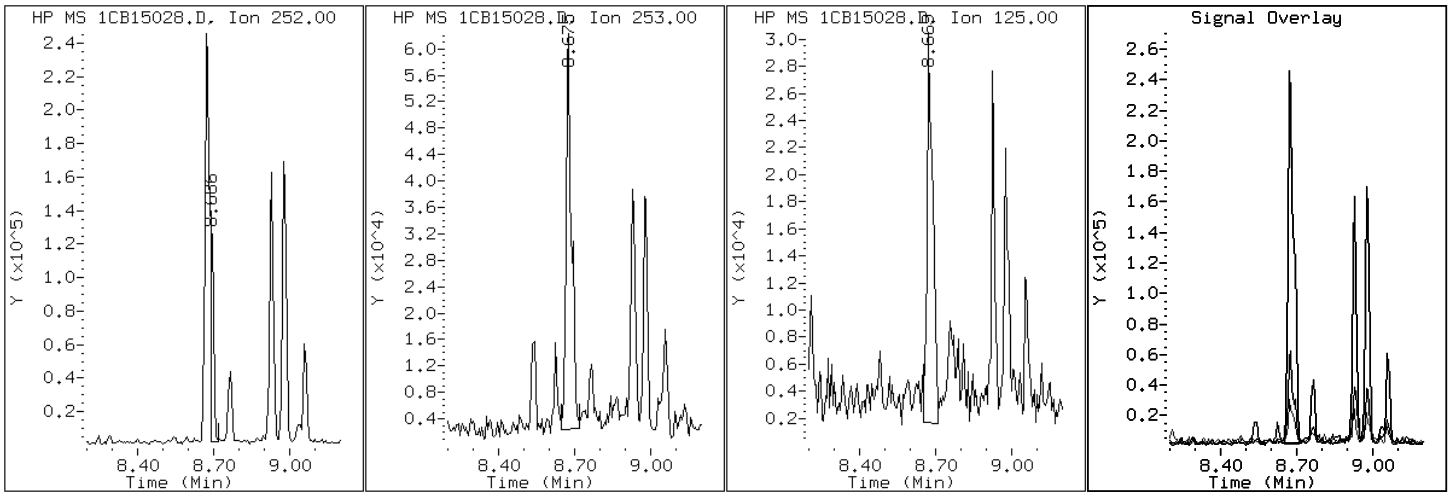
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

21 Benzo(k)fluoranthene



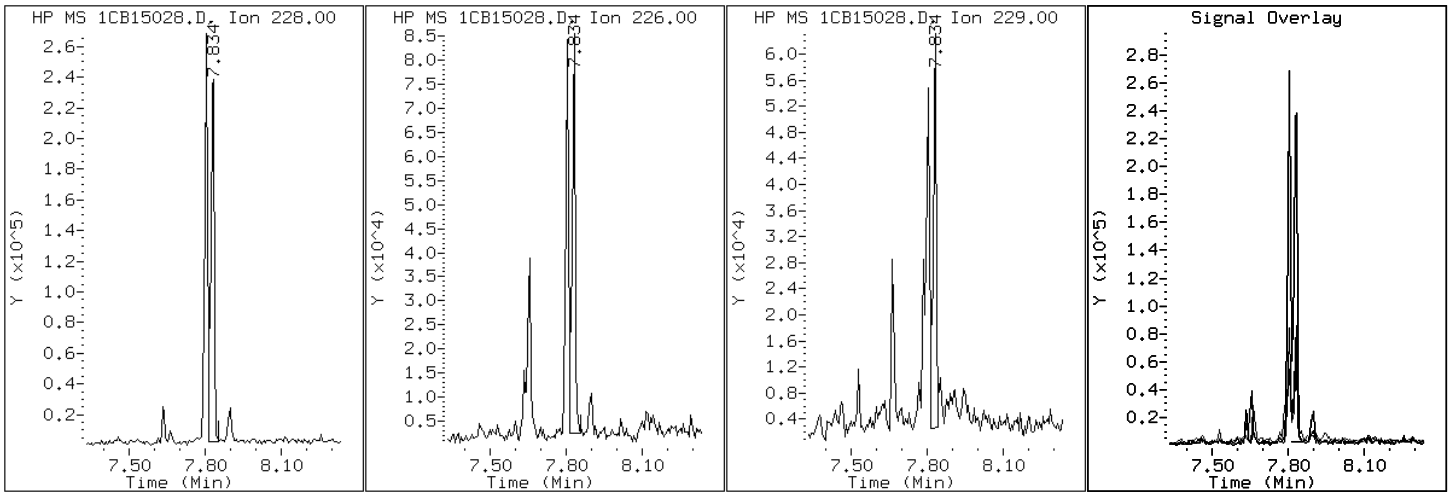
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

19 Chrysene



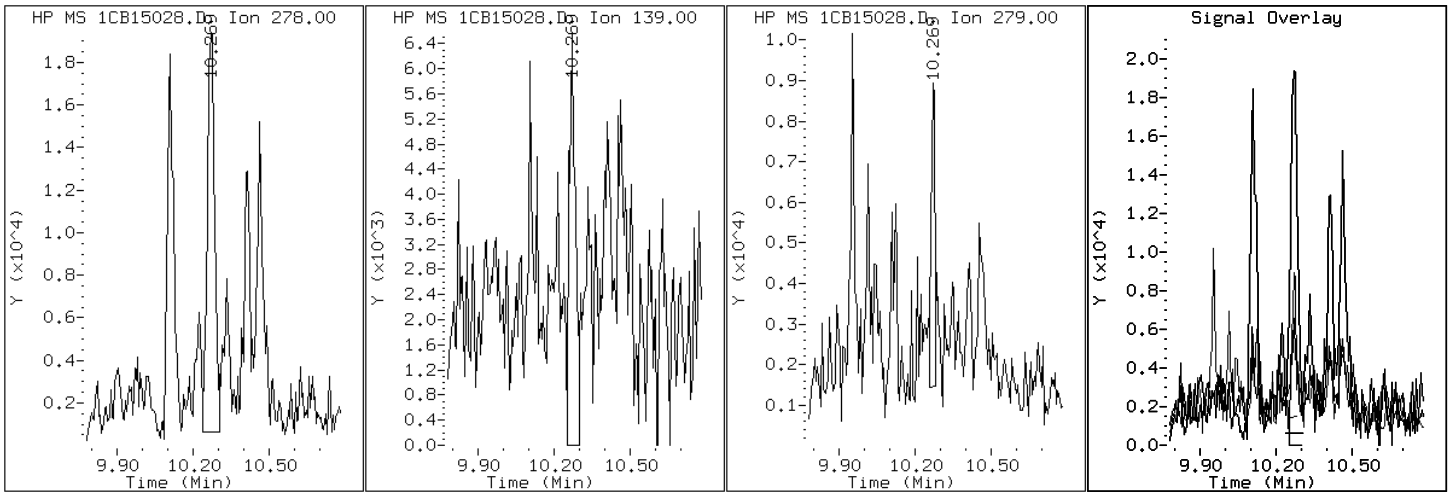
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

25 Dibenzo(a,h)anthracene



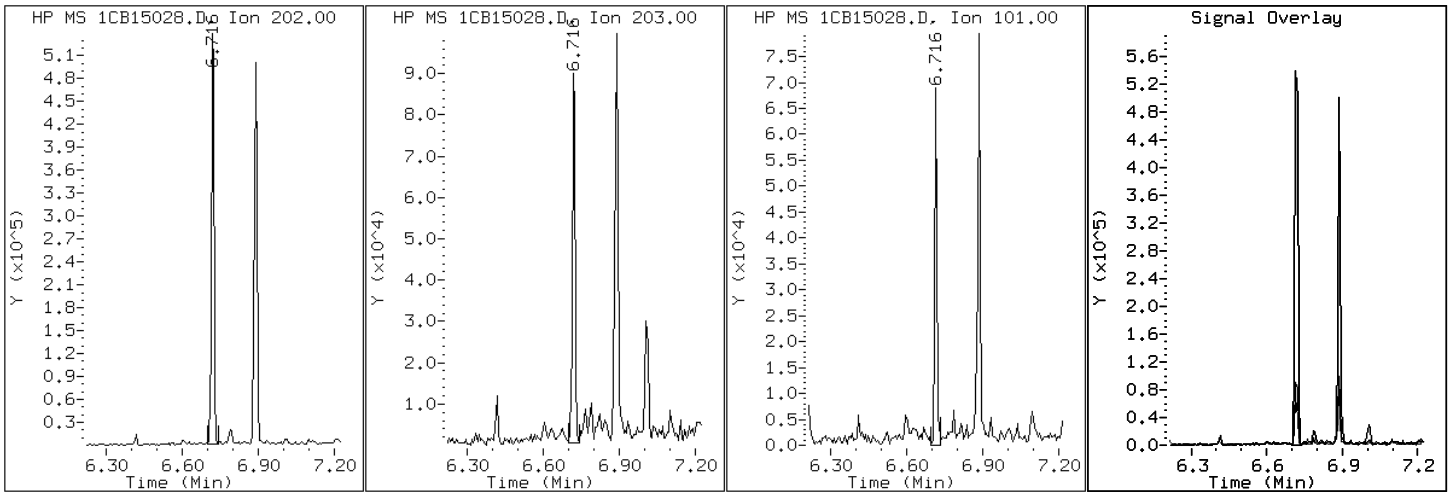
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

15 Fluoranthene



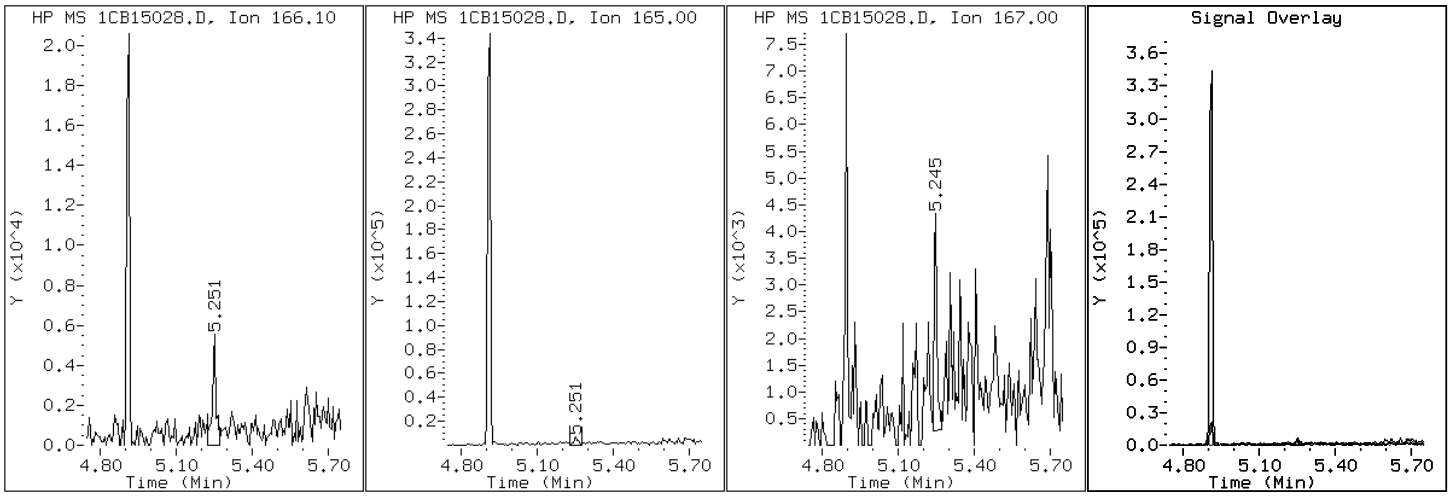
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

9 Fluorene



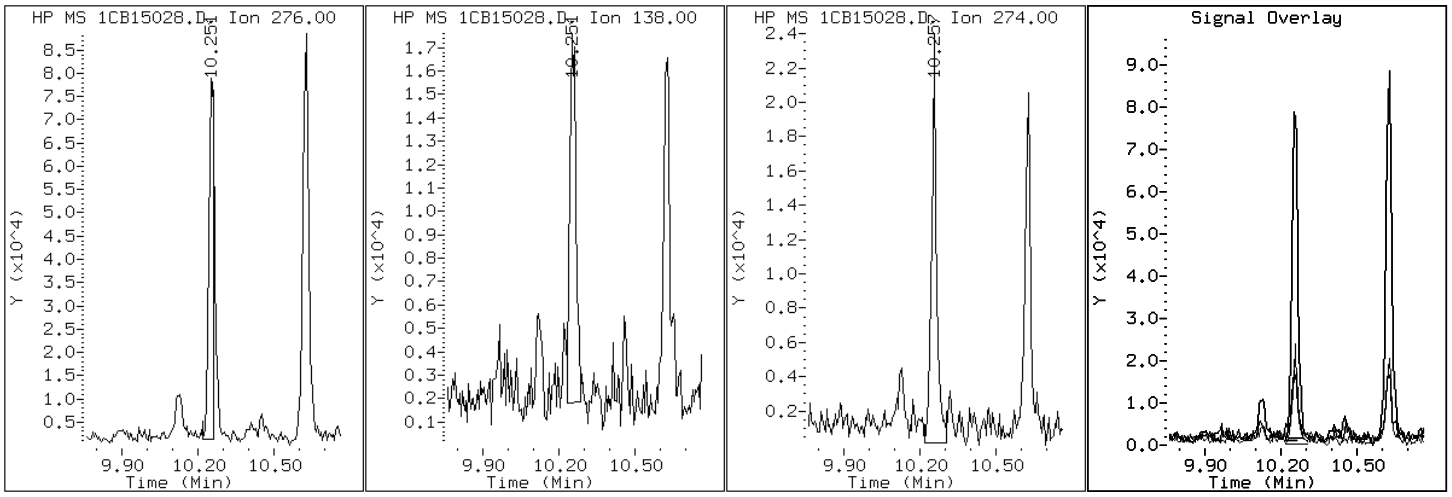
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

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



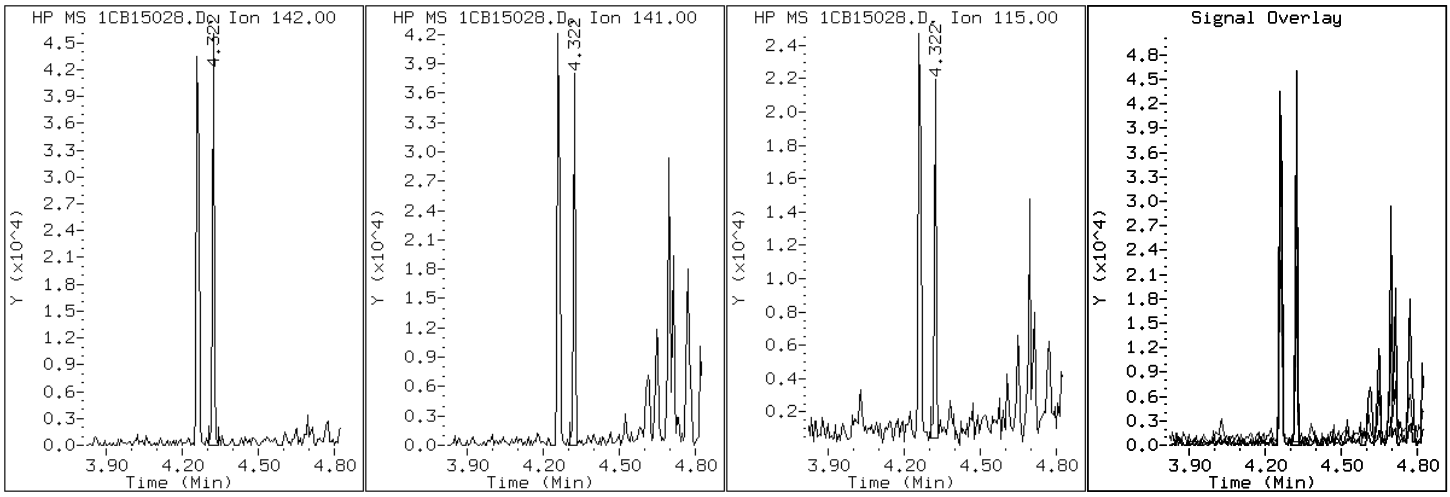
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

4 1-Methylnaphthalene



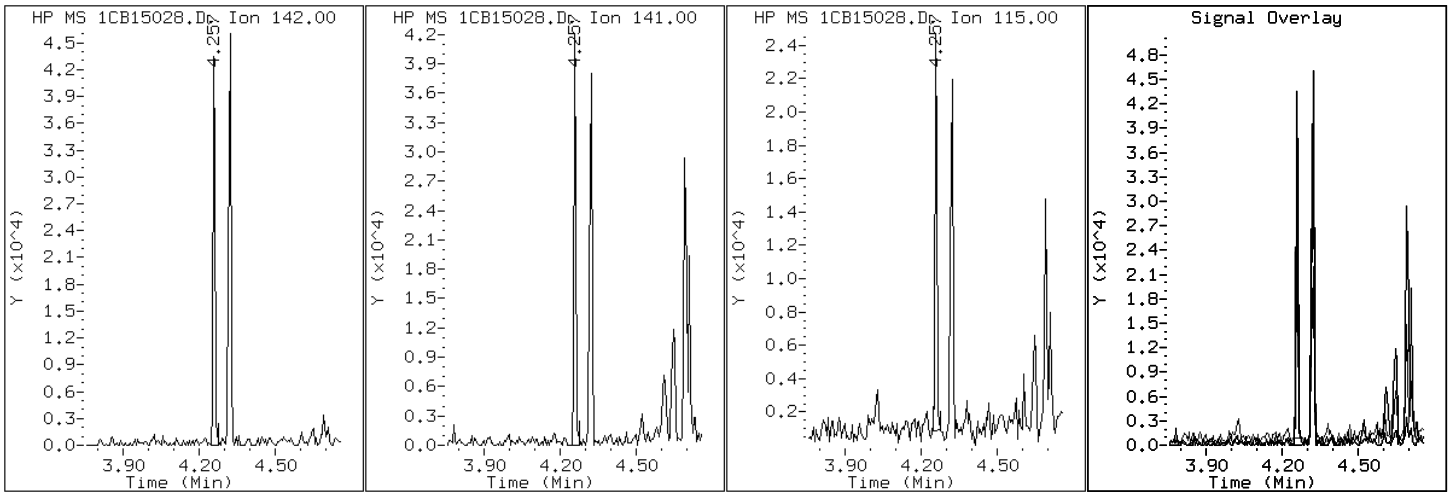
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

3 2-Methylnaphthalene



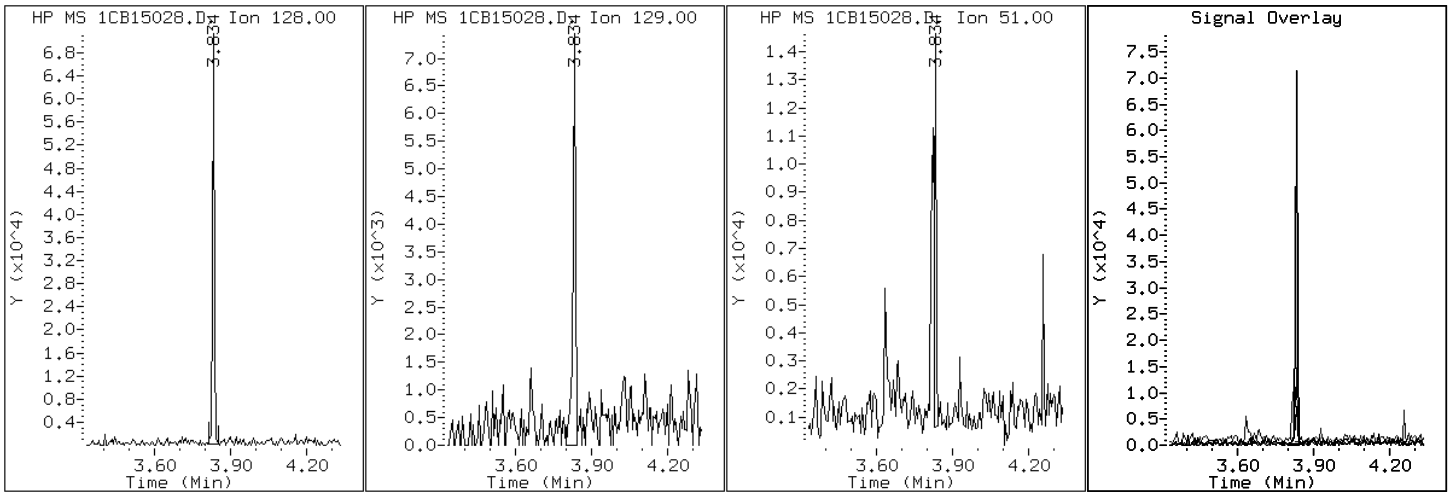
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

2 Naphthalene



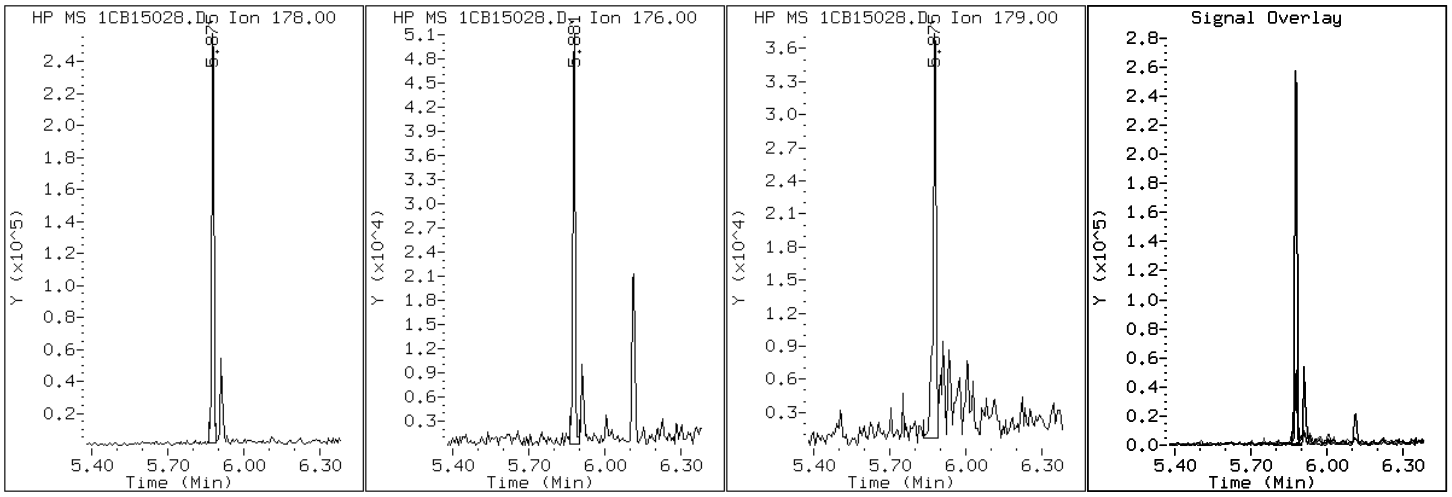
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

11 Phenanthrene



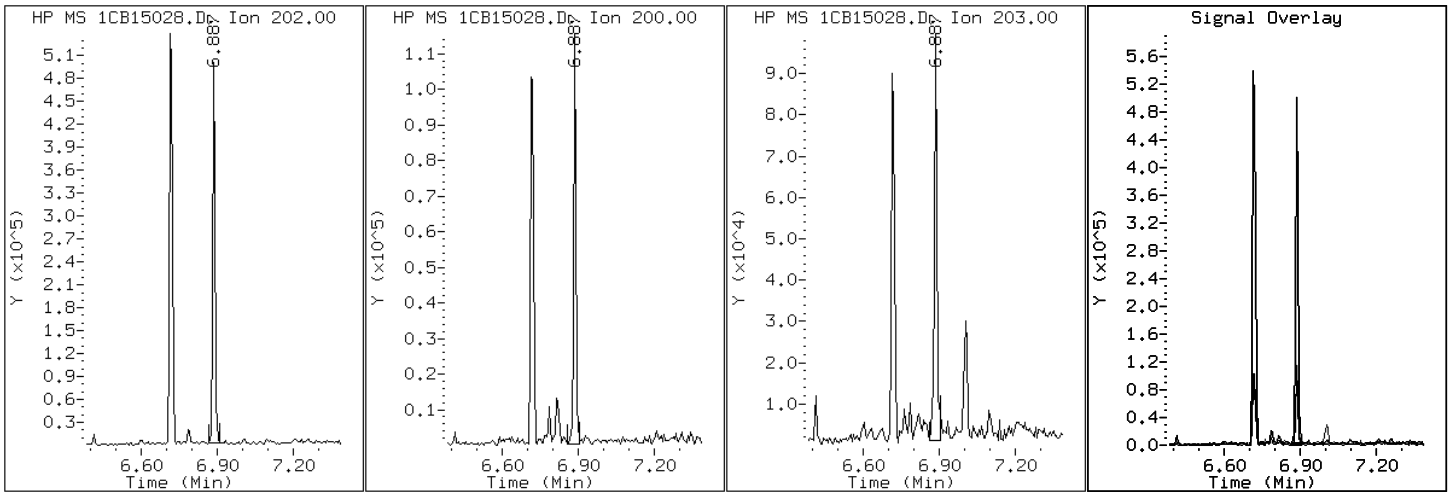
Data File: 1CB15028.D

Date: 15-FEB-2013 19:26

Client ID: CV0005N-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-20-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15028.D
Inj. Date and Time: 15-FEB-2013 19:26
Instrument ID: BSMC5973.i
Client ID: CV0005N-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

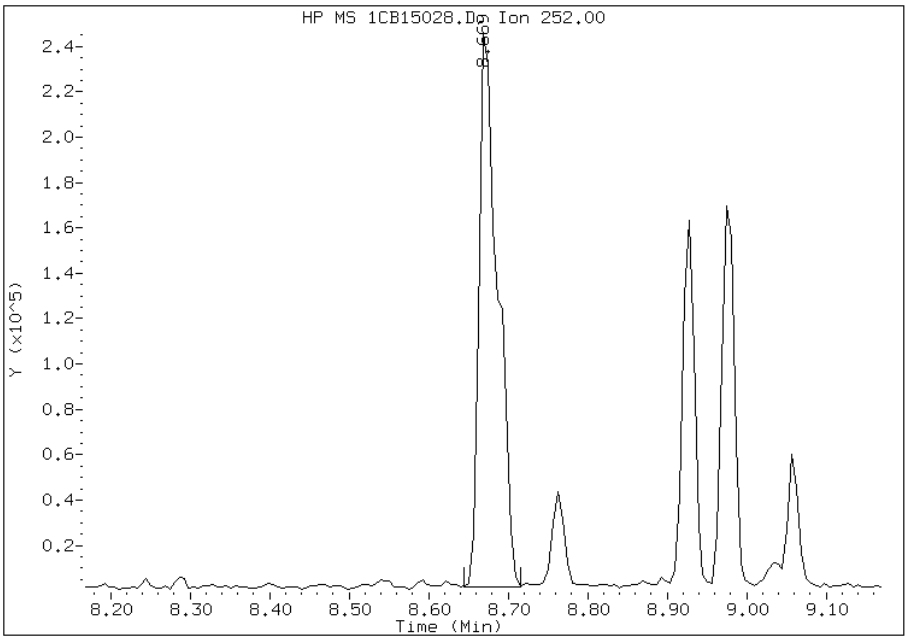
Processing Integration Results

RT: 8.67

Response: 400116

Amount: 5

Conc: 387



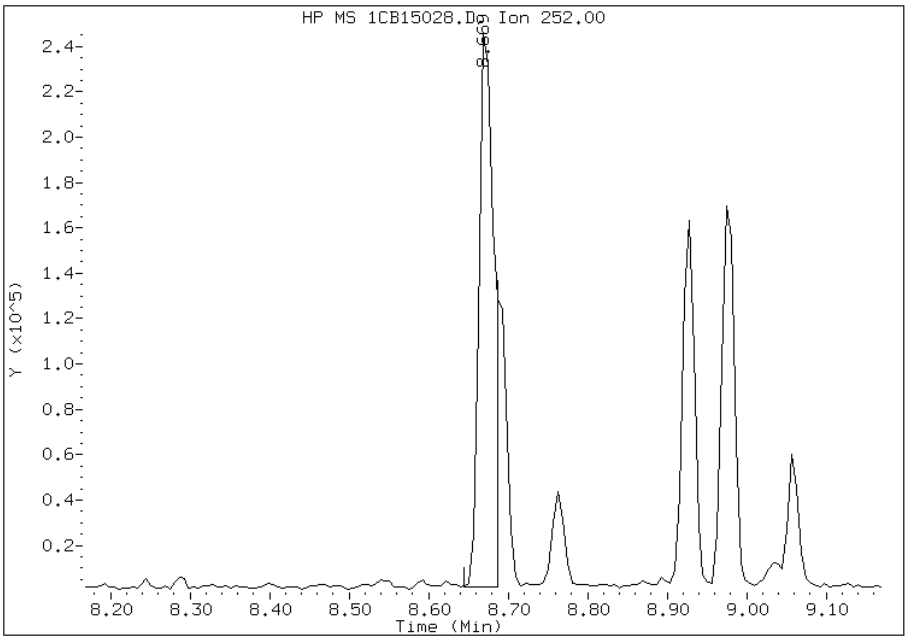
Manual Integration Results

RT: 8.67

Response: 318035

Amount: 4

Conc: 307



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:15
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15028.D
Inj. Date and Time: 15-FEB-2013 19:26
Instrument ID: BSMC5973.i
Client ID: CV0005N-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/19/2013

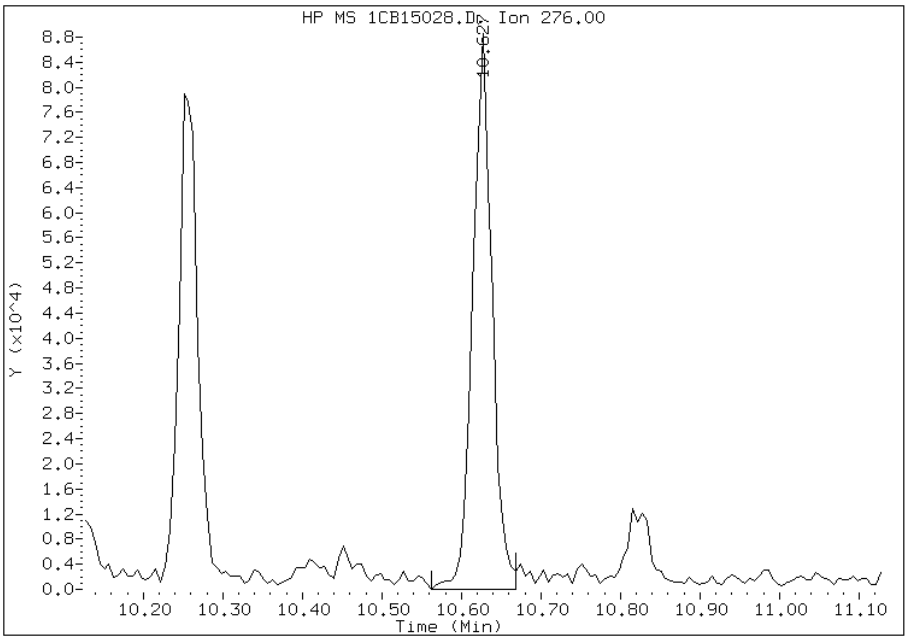
Processing Integration Results

RT: 10.63

Response: 148895

Amount: 2

Conc: 155



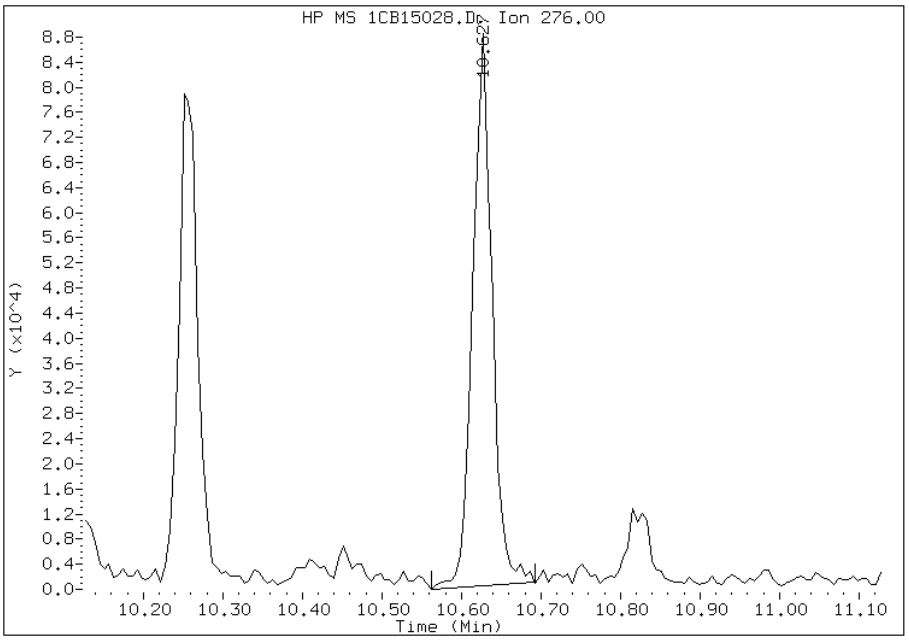
Manual Integration Results

RT: 10.63

Response: 147935

Amount: 2

Conc: 154



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15028.D
Inj. Date and Time: 15-FEB-2013 19:26
Instrument ID: BSMC5973.i
Client ID: CV0005N-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

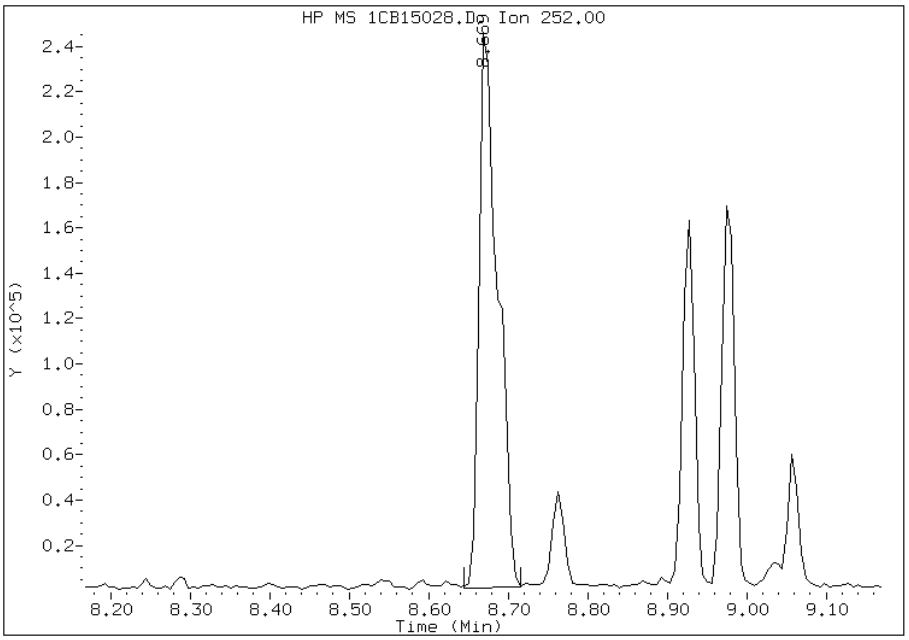
Processing Integration Results

RT: 8.67

Response: 401305

Amount: 4

Conc: 352



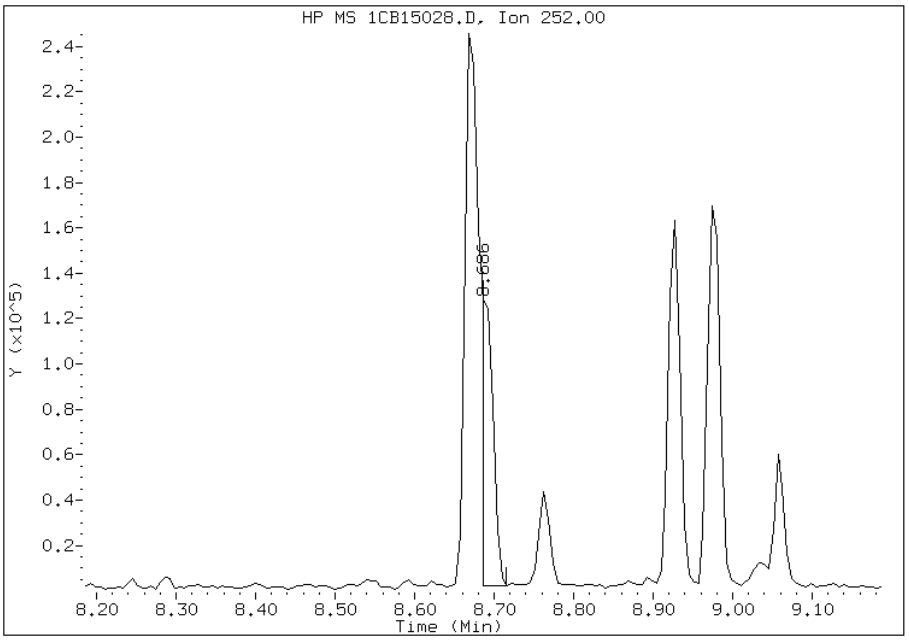
Manual Integration Results

RT: 8.69

Response: 126339

Amount: 1

Conc: 111



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15028.D
Inj. Date and Time: 15-FEB-2013 19:26
Instrument ID: BSMC5973.i
Client ID: CV0005N-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

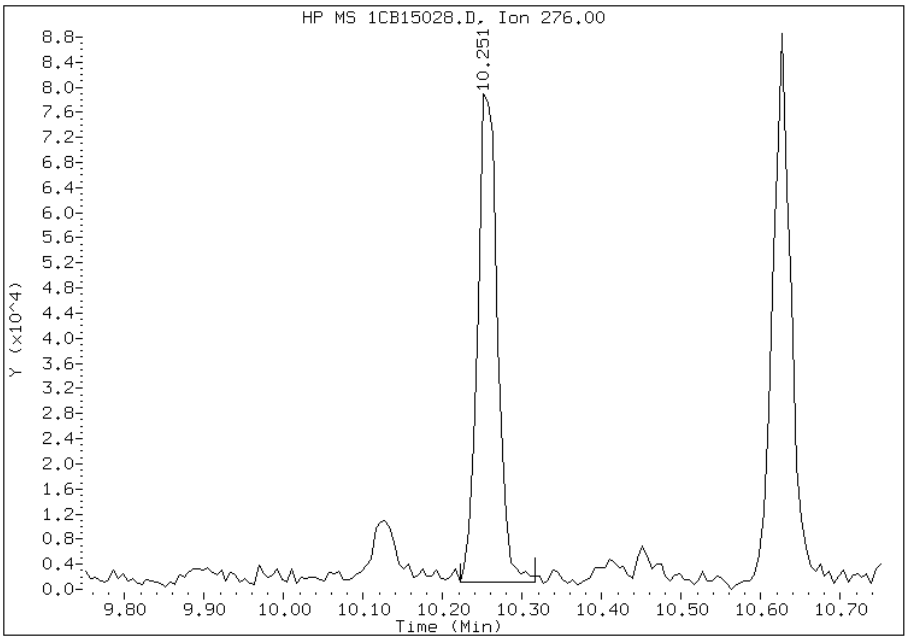
Processing Integration Results

RT: 10.25

Response: 134275

Amount: 2

Conc: 142



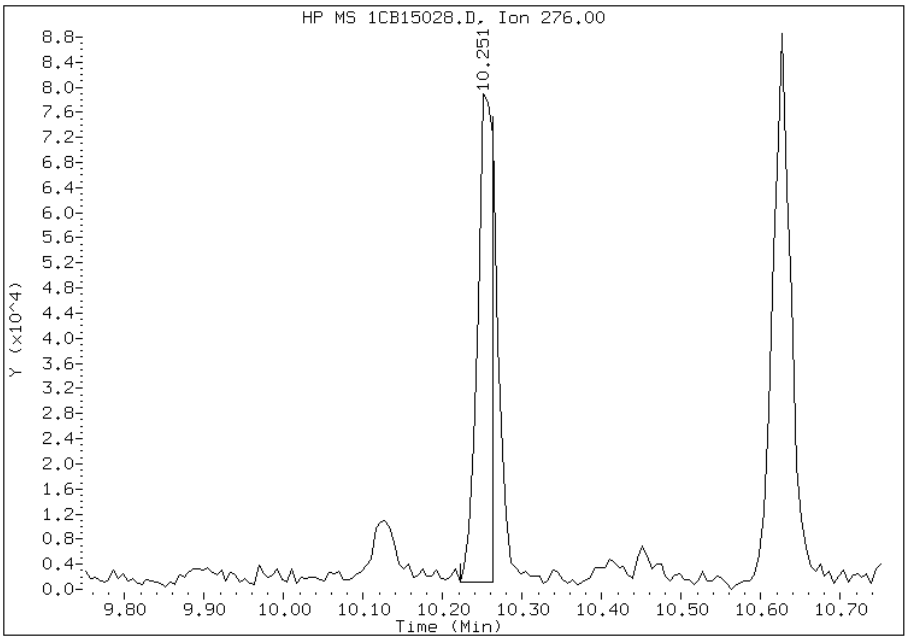
Manual Integration Results

RT: 10.25

Response: 106395

Amount: 1

Conc: 112



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:16
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1 Analy Batch No.: 133924

SDG No.: 68087318-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133924/4	1AA30004.D
Level 2	IC 660-133924/5	1AA30005.D
Level 3	IC 660-133924/6	1AA30006.D
Level 4	IC 660-133924/7	1AA30007.D
Level 5	ICIS 660-133924/3	1AA30003.D
Level 6	IC 660-133924/8	1AA30008.D
Level 7	IC 660-133924/9	1AA30009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.8691 1.0049	0.9779 0.9900	0.9957	0.9868	0.9720	Ave		0.9709			0.0000	4.8		15.0			
2-Methylnaphthalene	0.4405 0.5310	0.5425 0.5229	0.5533	0.5344	0.5162	Ave		0.5201			0.0000	7.1		15.0			
1-Methylnaphthalene	0.5799 0.5720	0.6359 0.5649	0.5884	0.6038	0.5766	Ave		0.5888			0.0000	4.1		15.0			
Acenaphthylene	1.8063 1.7961	1.7485 1.7517	1.7336	1.7759	1.7513	Ave		1.7662			0.0000	1.5		15.0			
Acenaphthene	0.8363 0.9749	1.0408 0.9370	0.9784	0.9922	0.9321	Ave		0.9559			0.0000	6.7		15.0			
Fluorene	1.2093 1.2053	1.1827 1.1841	1.2172	1.2123	1.2033	Ave		1.2020			0.0000	1.1		15.0			
Phenanthrene	1.1514 1.0704	1.1299 1.0364	1.1042	1.0910	1.0619	Ave		1.0922			0.0000	3.7		15.0			
Anthracene	1.1112 1.0910	1.1548 1.0728	1.1460	1.1218	1.0971	Ave		1.1135			0.0000	2.7		15.0			
Carbazole	0.9544 0.9635	0.9474 0.9325	0.9805	0.9504	0.9530	Ave		0.9545			0.0000	1.5		15.0			
Fluoranthene	1.0706 1.0987	1.0941 1.0549	1.0898	1.1074	1.0642	Ave		1.0828			0.0000	1.8		15.0			
Pyrene	1.4604 1.4486	1.4735 1.4287	1.4495	1.4522	1.3994	Ave		1.4446			0.0000	1.7		15.0			
Benzo[a]anthracene	1.8736 1.2185	1.3140 1.1887	1.2043	1.2254	1.1641	LinF		1.1943			0.0000				0.9996		0.9900
Chrysene	1.2214 1.1280	1.2208 1.1199	1.1854	1.1445	1.1290	Ave		1.1642			0.0000	3.8		15.0			
Benzo[b]fluoranthene	0.8835 1.1569	1.1859 1.1686	1.0690	1.1835	1.1674	Ave		1.1164			0.0000	9.9		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1 Analy Batch No.: 133924

SDG No.: 68087318-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.3342 1.1629	1.1471 1.0500	1.2419	1.1682	1.0664	Ave		1.1672			0.0000	8.4		15.0			
Benzo[a]pyrene	1.0378 1.0773	1.0634 1.0590	1.0649	1.0975	1.0213	Ave		1.0602			0.0000	2.4		15.0			
Indeno[1,2,3-cd]pyrene	0.7463 0.8627	0.8312 0.8416	0.8499	0.8359	0.8924	Ave		0.8371			0.0000	5.4		15.0			
Dibenz(a,h)anthracene	0.8535 0.8371	0.8458 0.8214	0.8193	0.8495	0.8317	Ave		0.8369			0.0000	1.6		15.0			
Benzo[g,h,i]perylene	0.8260 0.8801	0.8693 0.8717	0.8470	0.8981	0.8787	Ave		0.8673			0.0000	2.7		15.0			
o-Terphenyl	0.6160 0.5745	0.5755 0.5632	0.5719	0.5995	0.5679	Ave		0.5812			0.0000	3.3		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.: 680-87318-1 Analy Batch No.: 133924

SDG No.: 68087318-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133924/4	1AA30004.D
Level 2	IC 660-133924/5	1AA30005.D
Level 3	IC 660-133924/6	1AA30006.D
Level 4	IC 660-133924/7	1AA30007.D
Level 5	ICIS 660-133924/3	1AA30003.D
Level 6	IC 660-133924/8	1AA30008.D
Level 7	IC 660-133924/9	1AA30009.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	6607 931156	30367 1392262	157606	301178	659441	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	3349 492071	16848 735363	87583	163104	350225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	4409 530019	19749 794373	93134	184298	391143	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	8115 932857	32040 1380232	163466	310278	673599	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	3757 506350	19071 738267	92259	173347	358522	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5433 626008	21671 932971	114770	211811	462830	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	7708 845549	30365 1235274	153087	280076	620739	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	7439 861847	31036 1278708	158879	287973	641280	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	6389 761082	25461 1111447	135929	243964	557093	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	7167 867897	29405 1257334	151084	284287	622099	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	7924 909822	32526 1318254	165790	301919	659745	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	10166 765266	29004 1096876	137745	254775	548828	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	6627 708484	26947 1033398	135587	237952	532301	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	4560 708379	25297 1080002	117636	238908	520719	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	6886 712080	24469 970372	136662	235819	475653	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.: 680-87318-1 Analy Batch No.: 133924

SDG No.: 68087318-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

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	5356 659672	22683 978664	117182	221540	455561	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	3852 528224	17731 777793	93523	168724	398038	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	4405 512548	18042 759088	90159	171475	370987	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	4263 538912	18543 805634	93202	181282	391957	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	4124 453816	15467 671289	79289	153886	331984	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30003.D
Lab Smp Id: ICIS-1489898
Inj Date : 30-JAN-2013 11:38
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.508	2.508	(1.000)	1356829	40.0000	
* 6 Acenaphthene-d10	164	3.539	3.539	(1.000)	769245	40.0000	
* 10 Phenanthrene-d10	188	4.501	4.501	(1.000)	1169097	40.0000	
$ 14 o-Terphenyl	230	4.779	4.779	(1.062)	331984	20.0000	19.5427
* 18 Chrysene-d12	240	6.536	6.536	(1.000)	942927	40.0000	
* 23 Perylene-d12	264	7.637	7.637	(1.000)	892108	40.0000	
2 Naphthalene	128	2.519	2.519	(1.004)	659441	20.0000	20.0234
3 2-Methylnaphthalene	141	2.925	2.925	(1.166)	350225	20.0000	19.8505
4 1-Methylnaphthalene	142	2.978	2.978	(1.187)	391143	20.0000	19.5846
5 Acenaphthylene	152	3.454	3.454	(0.976)	673599	20.0000	19.8314
7 Acenaphthene	154	3.555	3.555	(1.005)	358522	20.0000	19.5019
9 Fluorene	166	3.871	3.871	(1.094)	462830	20.0000	20.0218
11 Phenanthrene	178	4.517	4.517	(1.004)	620739	20.0000	19.4458
12 Anthracene	178	4.549	4.549	(1.011)	641280	20.0000	19.7039
13 Carbazole	167	4.704	4.704	(1.045)	557093	20.0000	19.9690
15 Fluoranthene	202	5.388	5.388	(1.197)	622099	20.0000	19.6567
16 Pyrene	202	5.559	5.559	(0.850)	659745	20.0000	19.3736
17 Benzo(a)anthracene	228	6.531	6.531	(0.999)	548828	20.0000	19.4934
19 Chrysene	228	6.558	6.558	(1.003)	532301	20.0000	19.3967
20 Benzo(b)fluoranthene	252	7.359	7.359	(0.964)	520719	20.0000	20.9132
21 Benzo(k)fluoranthene	252	7.380	7.380	(0.966)	475653	20.0000	18.2713
22 Benzo(a)pyrene	252	7.594	7.594	(0.994)	455561	20.0000	19.2671
24 Indeno(1,2,3-cd)pyrene	276	8.427	8.427	(1.104)	398038	20.0000	21.3193(M)
25 Dibenzo(a,h)anthracene	278	8.443	8.443	(1.106)	370987	20.0000	19.8762
26 Benzo(g,h,i)perylene	276	8.657	8.657	(1.134)	391957	20.0000	20.2641

QC Flag Legend

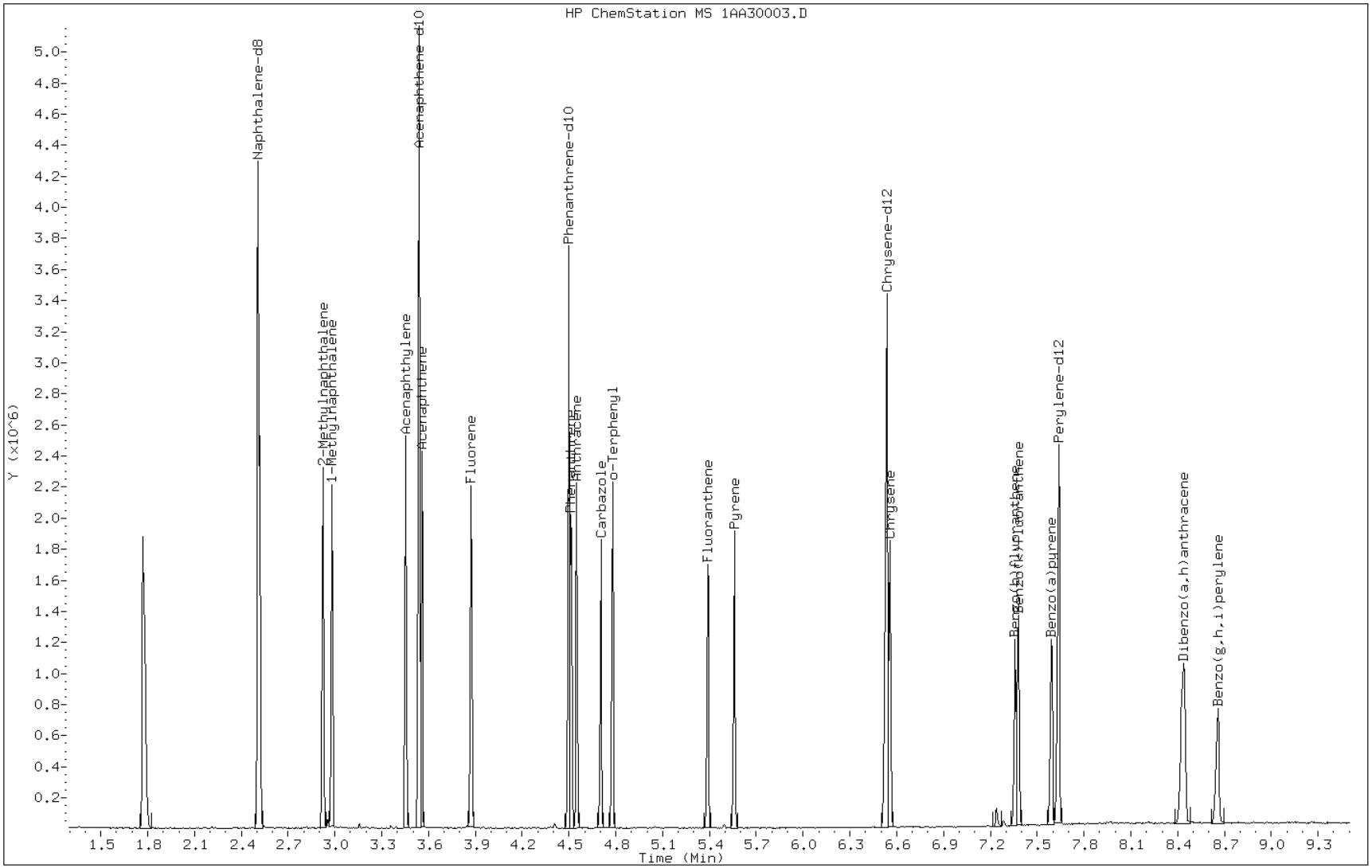
M - Compound response manually integrated.

Data File: 1AA30003.D

Date: 30-JAN-2013 11:38

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1AA30003.D
Inj. Date and Time: 30-JAN-2013 11:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

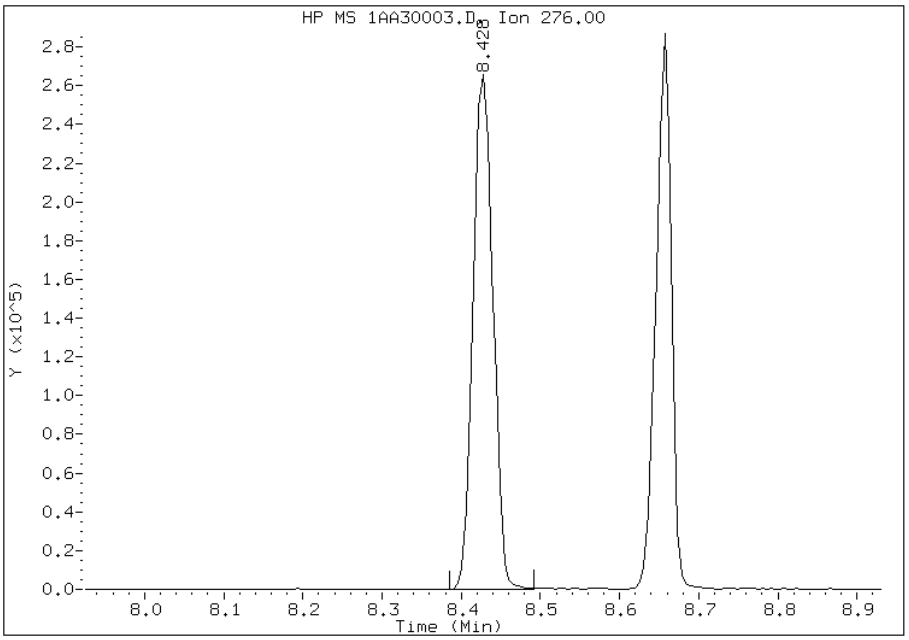
Processing Integration Results

RT: 8.43

Response: 458405

Amount: 22

Conc: 22



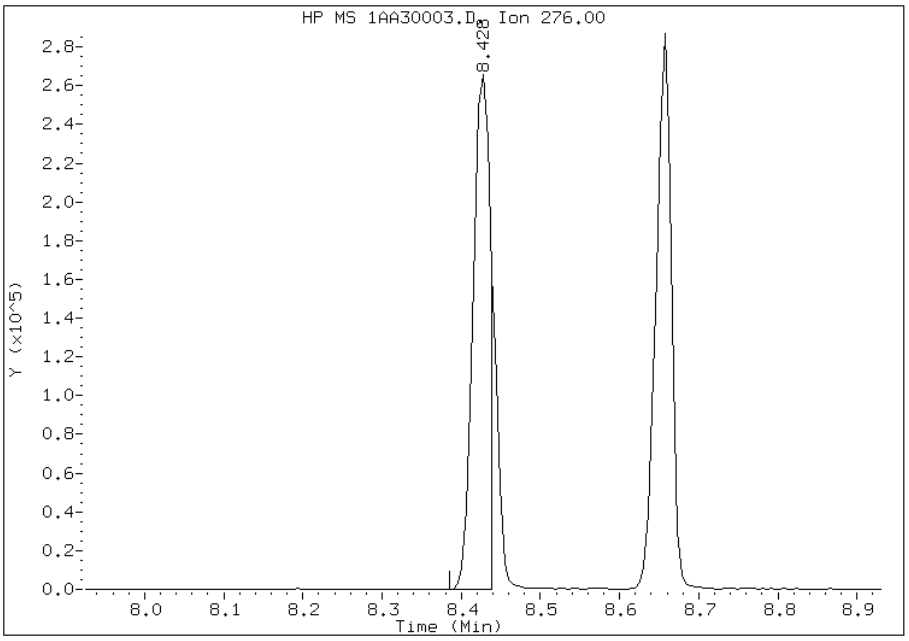
Manual Integration Results

RT: 8.43

Response: 398038

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 12:17
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30004.D
Lab Smp Id: IC-1489894
Inj Date : 30-JAN-2013 12:04
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 11:38 Cal File: 1AA30003.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.508	2.508	(1.000)	1520482	40.0000	
* 6 Acenaphthene-d10	164	3.539	3.539	(1.000)	898530	40.0000	
* 10 Phenanthrene-d10	188	4.501	4.501	(1.000)	1338880	40.0000	
$ 14 o-Terphenyl	230	4.779	4.779	(1.062)	4124	0.20000	0.2119
* 18 Chrysene-d12	240	6.536	6.536	(1.000)	1085169	40.0000	
* 23 Perylene-d12	264	7.647	7.637	(1.000)	1032233	40.0000	
2 Naphthalene	128	2.519	2.519	(1.004)	6607	0.20000	0.1790
3 2-Methylnaphthalene	141	2.925	2.925	(1.166)	3349	0.20000	0.1693
4 1-Methylnaphthalene	142	2.978	2.978	(1.187)	4409	0.20000	0.1969
5 Acenaphthylene	152	3.454	3.454	(0.976)	8115	0.20000	0.2045
7 Acenaphthene	154	3.555	3.555	(1.005)	3757	0.20000	0.1749
9 Fluorene	166	3.870	3.871	(1.094)	5433	0.20000	0.2012
11 Phenanthrene	178	4.512	4.517	(1.002)	7708	0.20000	0.2108(M)
12 Anthracene	178	4.549	4.549	(1.011)	7439	0.20000	0.1995
13 Carbazole	167	4.704	4.704	(1.045)	6389	0.20000	0.1999
15 Fluoranthene	202	5.388	5.388	(1.197)	7167	0.20000	0.1977
16 Pyrene	202	5.559	5.559	(0.850)	7924	0.20000	0.2021
17 Benzo(a)anthracene	228	6.531	6.531	(0.999)	10166	0.20000	0.3137
19 Chrysene	228	6.552	6.558	(1.002)	6627	0.20000	0.2098
20 Benzo(b)fluoranthene	252	7.359	7.359	(0.962)	4560	0.20000	0.1582(H)
21 Benzo(k)fluoranthene	252	7.375	7.380	(0.964)	6886	0.20000	0.2286
22 Benzo(a)pyrene	252	7.594	7.594	(0.993)	5356	0.20000	0.1957
24 Indeno(1,2,3-cd)pyrene	276	8.433	8.427	(1.103)	3852	0.20000	0.1783(M)
25 Dibenzo(a,h)anthracene	278	8.443	8.443	(1.104)	4405	0.20000	0.2039
26 Benzo(g,h,i)perylene	276	8.657	8.657	(1.132)	4263	0.20000	0.1904

QC Flag Legend

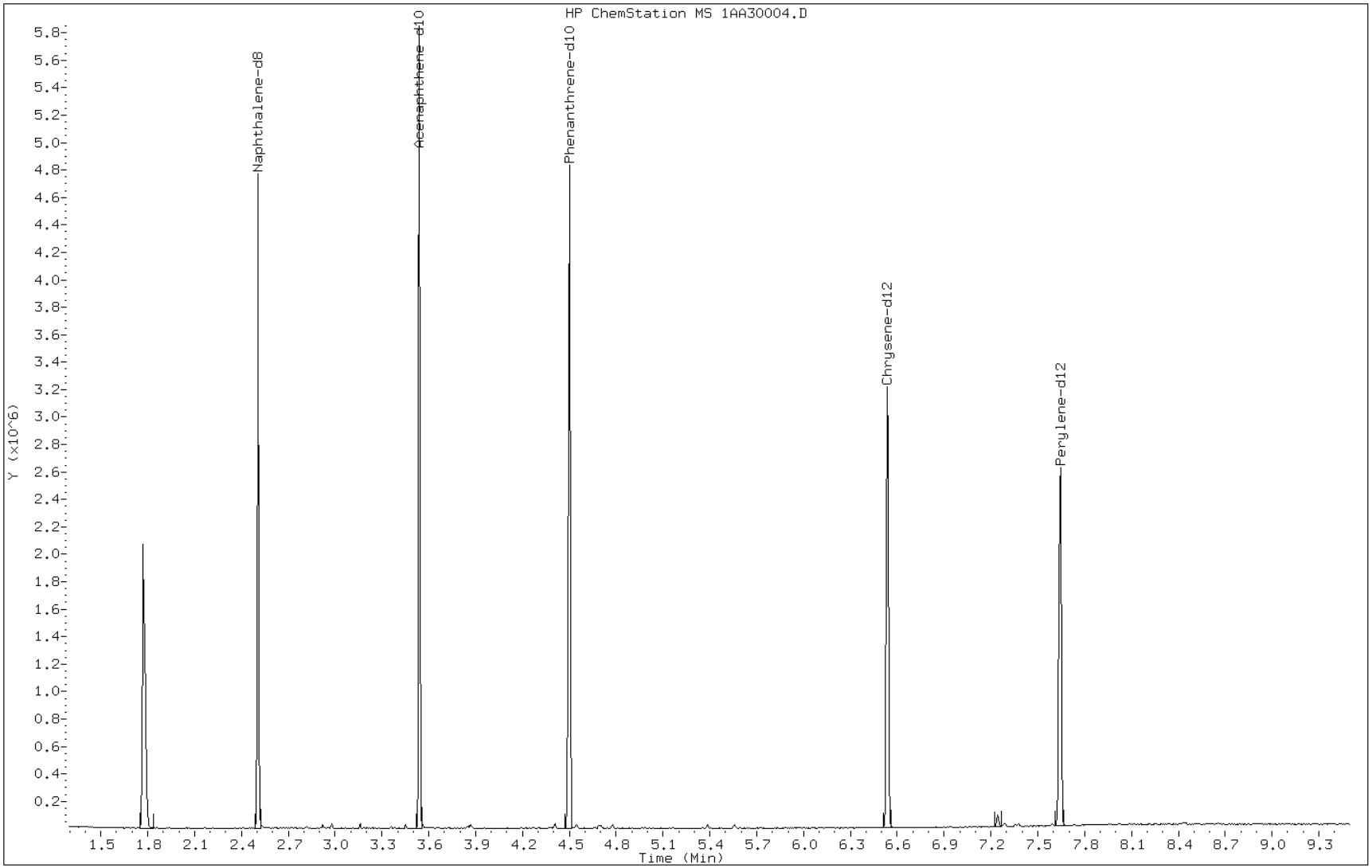
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AA30004.D

Date: 30-JAN-2013 12:04

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1AA30004.D
Inj. Date and Time: 30-JAN-2013 12:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 11 Phenanthrene
CAS #: 85-01-8
Report Date: 01/30/2013

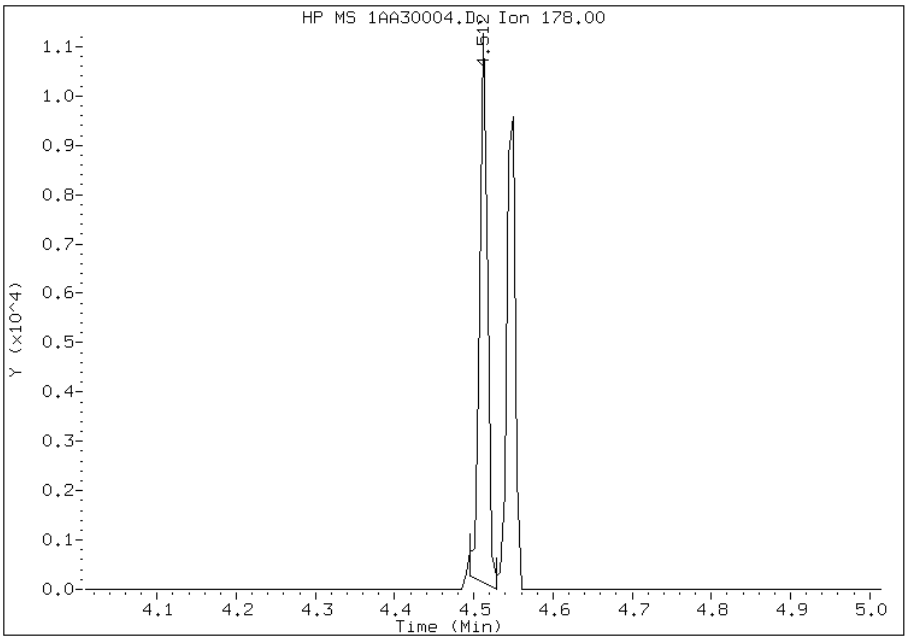
Processing Integration Results

RT: 4.51

Response: 7417

Amount: 0

Conc: 0



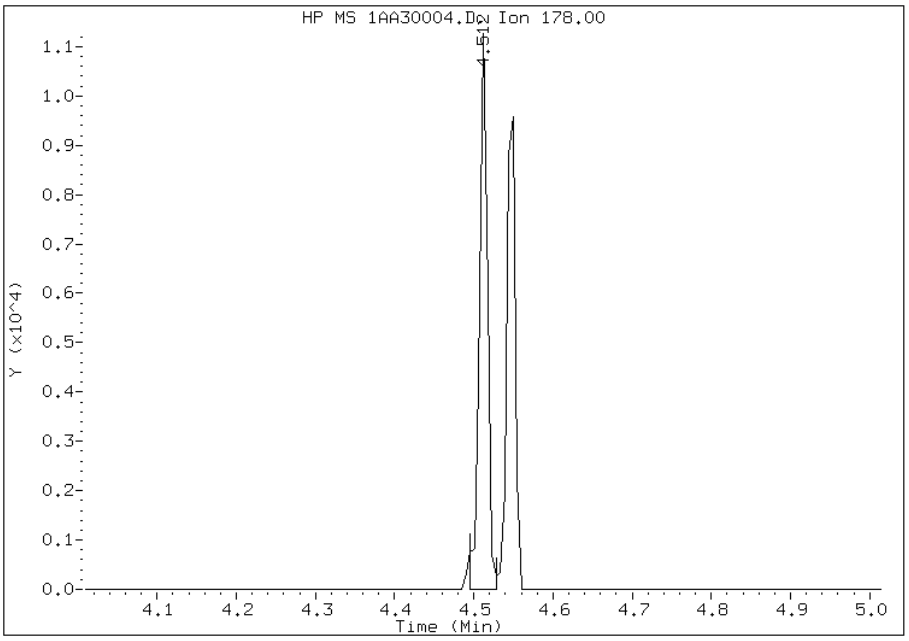
Manual Integration Results

RT: 4.51

Response: 7708

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AA30004.D
Inj. Date and Time: 30-JAN-2013 12:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

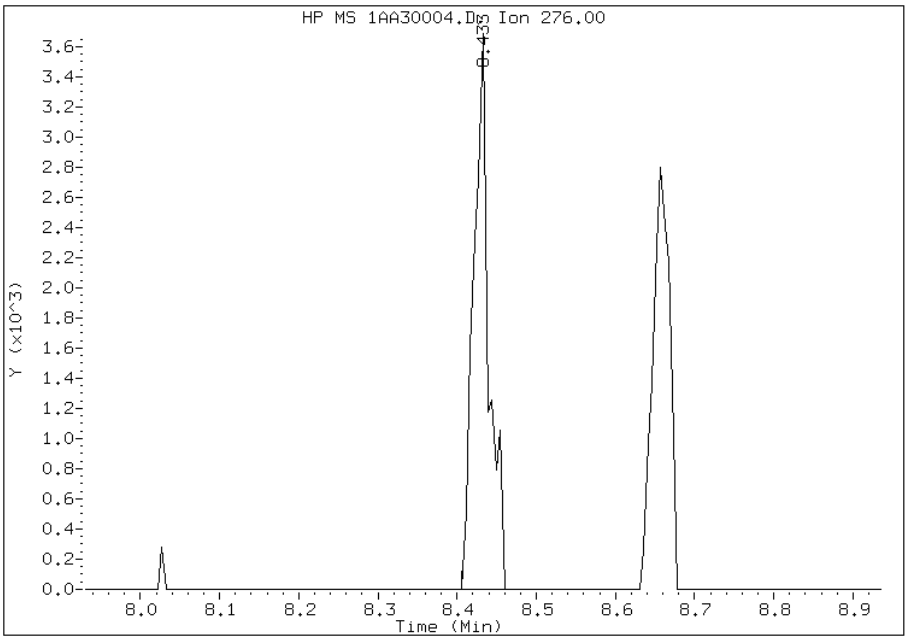
Processing Integration Results

RT: 8.43

Response: 4847

Amount: 0

Conc: 0



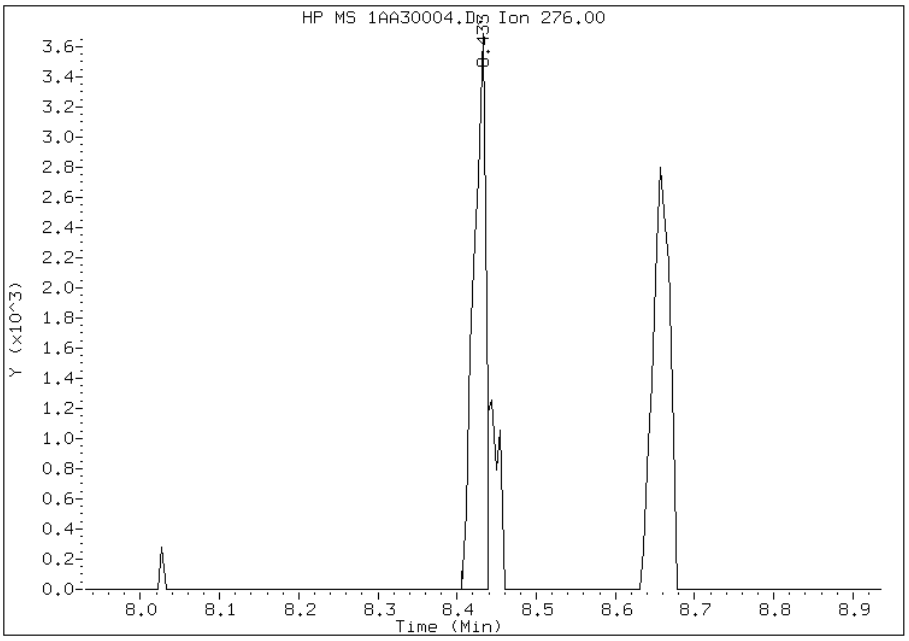
Manual Integration Results

RT: 8.43

Response: 3852

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:28
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30005.D
Lab Smp Id: IC-1489895
Inj Date : 30-JAN-2013 12:19
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:04 Cal File: 1AA30004.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.505	2.508	(1.000)	1242193	40.0000	
* 6 Acenaphthene-d10	164	3.536	3.539	(1.000)	732960	40.0000	
* 10 Phenanthrene-d10	188	4.498	4.501	(1.000)	1075002	40.0000	
$ 14 o-Terphenyl	230	4.776	4.779	(1.062)	15467	1.00000	0.9901
* 18 Chrysene-d12	240	6.533	6.536	(1.000)	882947	40.0000	
* 23 Perylene-d12	264	7.634	7.637	(1.000)	853244	40.0000	
2 Naphthalene	128	2.516	2.519	(1.004)	30367	1.00000	1.0071
3 2-Methylnaphthalene	141	2.922	2.925	(1.166)	16848	1.00000	1.0430
4 1-Methylnaphthalene	142	2.976	2.978	(1.188)	19749	1.00000	1.0800
5 Acenaphthylene	152	3.451	3.454	(0.976)	32040	1.00000	0.9899
7 Acenaphthene	154	3.552	3.555	(1.005)	19071	1.00000	1.0887
9 Fluorene	166	3.868	3.871	(1.094)	21671	1.00000	0.9838
11 Phenanthrene	178	4.509	4.517	(1.002)	30365	1.00000	1.0345
12 Anthracene	178	4.546	4.549	(1.011)	31036	1.00000	1.0370
13 Carbazole	167	4.701	4.704	(1.045)	25461	1.00000	0.9925
15 Fluoranthene	202	5.385	5.388	(1.197)	29405	1.00000	1.0104
16 Pyrene	202	5.556	5.559	(0.850)	32526	1.00000	1.0200
17 Benzo(a)anthracene	228	6.523	6.531	(0.998)	29004	1.00000	1.1001
19 Chrysene	228	6.549	6.558	(1.002)	26947	1.00000	1.0486
20 Benzo(b)fluoranthene	252	7.351	7.359	(0.963)	25297	1.00000	1.0622
21 Benzo(k)fluoranthene	252	7.372	7.380	(0.966)	24469	1.00000	0.9827
22 Benzo(a)pyrene	252	7.586	7.594	(0.994)	22683	1.00000	1.0030
24 Indeno(1,2,3-cd)pyrene	276	8.408	8.427	(1.101)	17731	1.00000	0.9929(M)
25 Dibenzo(a,h)anthracene	278	8.425	8.443	(1.104)	18042	1.00000	1.0106
26 Benzo(g,h,i)perylene	276	8.638	8.657	(1.132)	18543	1.00000	1.0023

QC Flag Legend

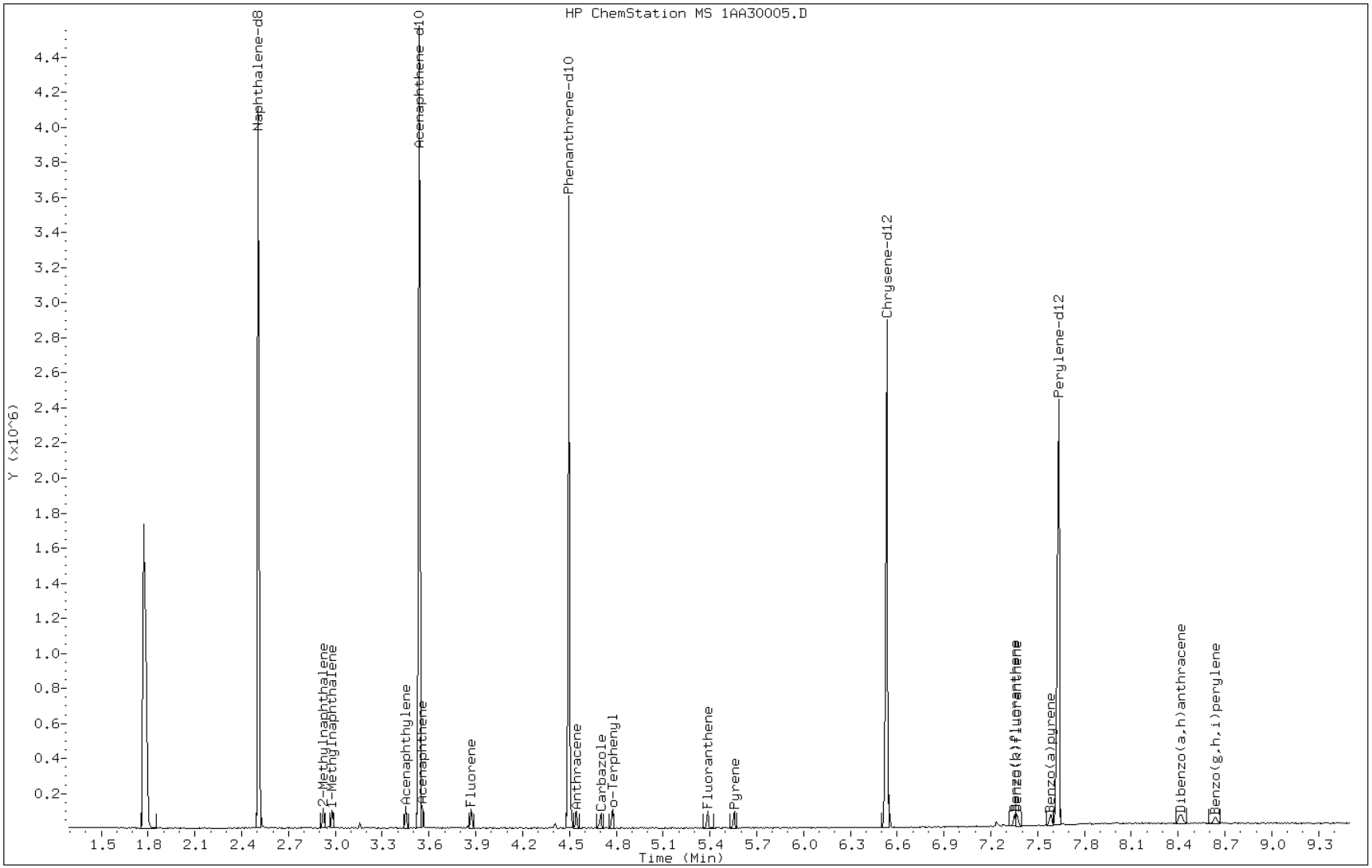
M - Compound response manually integrated.

Data File: 1AA30005.D

Date: 30-JAN-2013 12:19

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1AA30005.D
Inj. Date and Time: 30-JAN-2013 12:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

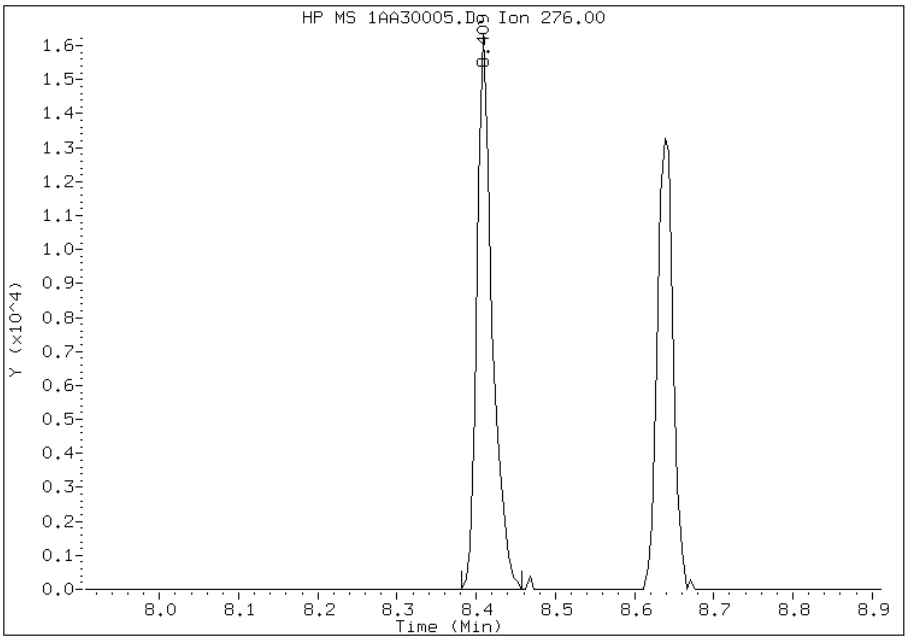
Processing Integration Results

RT: 8.41

Response: 21625

Amount: 1

Conc: 1



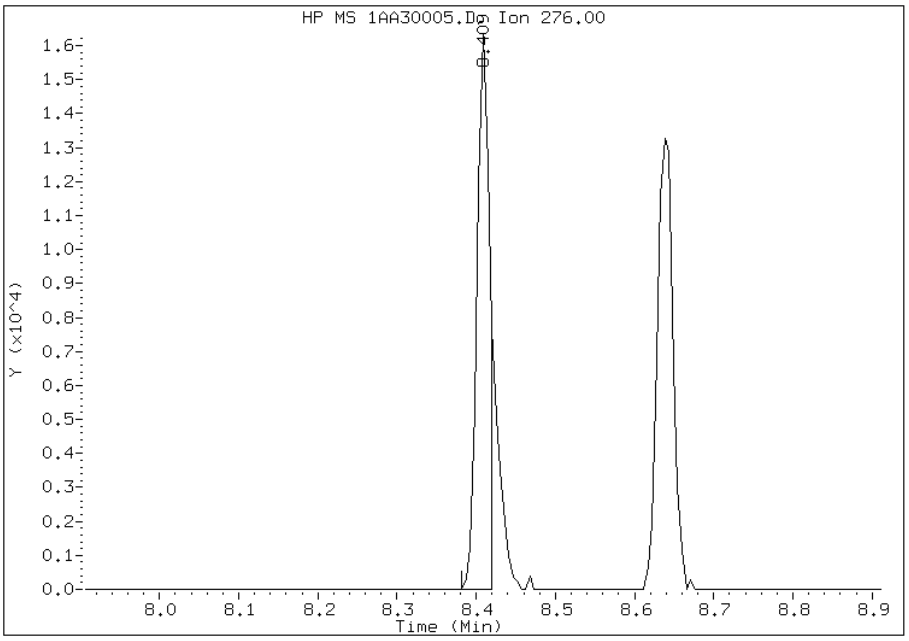
Manual Integration Results

RT: 8.41

Response: 17731

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30006.D
Lab Smp Id: IC-1489896
Inj Date : 30-JAN-2013 12:34
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:19 Cal File: 1AA30005.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.509	2.508	(1.000)	1266331	40.0000	
* 6 Acenaphthene-d10	164	3.540	3.539	(1.000)	754333	40.0000	
* 10 Phenanthrene-d10	188	4.496	4.501	(1.000)	1109110	40.0000	
$ 14 o-Terphenyl	230	4.774	4.779	(1.062)	79289	5.00000	4.9199
* 18 Chrysene-d12	240	6.532	6.536	(1.000)	915040	40.0000	
* 23 Perylene-d12	264	7.632	7.637	(1.000)	880349	40.0000	
2 Naphthalene	128	2.520	2.519	(1.004)	157606	5.00000	5.1275
3 2-Methylnaphthalene	141	2.920	2.925	(1.164)	87583	5.00000	5.3189
4 1-Methylnaphthalene	142	2.979	2.978	(1.187)	93134	5.00000	4.9965
5 Acenaphthylene	152	3.455	3.454	(0.976)	163466	5.00000	4.9077
7 Acenaphthene	154	3.556	3.555	(1.005)	92259	5.00000	5.1176
9 Fluorene	166	3.871	3.871	(1.094)	114770	5.00000	5.0630
11 Phenanthrene	178	4.512	4.517	(1.004)	153087	5.00000	5.0551
12 Anthracene	178	4.544	4.549	(1.011)	158879	5.00000	5.1457
13 Carbazole	167	4.699	4.704	(1.045)	135929	5.00000	5.1359
15 Fluoranthene	202	5.383	5.388	(1.197)	151084	5.00000	5.0320
16 Pyrene	202	5.554	5.559	(0.850)	165790	5.00000	5.0168
17 Benzo(a)anthracene	228	6.526	6.531	(0.999)	137745	5.00000	5.0415
19 Chrysene	228	6.553	6.558	(1.003)	135587	5.00000	5.0912
20 Benzo(b)fluoranthene	252	7.354	7.359	(0.964)	117636	5.00000	4.7876
21 Benzo(k)fluoranthene	252	7.370	7.380	(0.966)	136662	5.00000	5.3197
22 Benzo(a)pyrene	252	7.584	7.594	(0.994)	117182	5.00000	5.0222
24 Indeno(1,2,3-cd)pyrene	276	8.412	8.427	(1.102)	93523	5.00000	5.0760(M)
25 Dibenzo(a,h)anthracene	278	8.428	8.443	(1.104)	90159	5.00000	4.8949
26 Benzo(g,h,i)perylene	276	8.642	8.657	(1.132)	93202	5.00000	4.8828

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AA30006.D

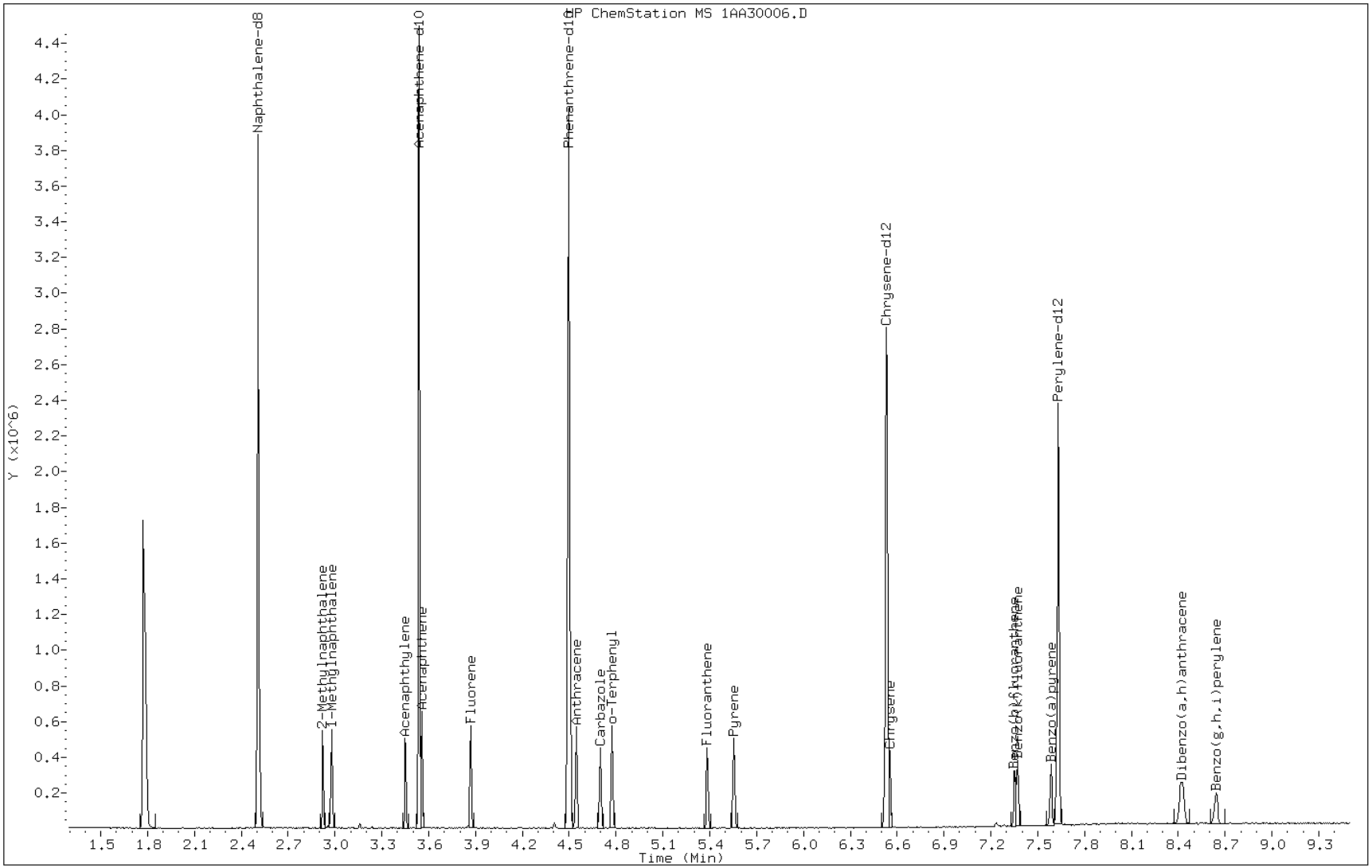
Date: 30-JAN-2013 12:34

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1489896

Operator: SCC



Manual Integration Report

Data File: 1AA30006.D
Inj. Date and Time: 30-JAN-2013 12:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

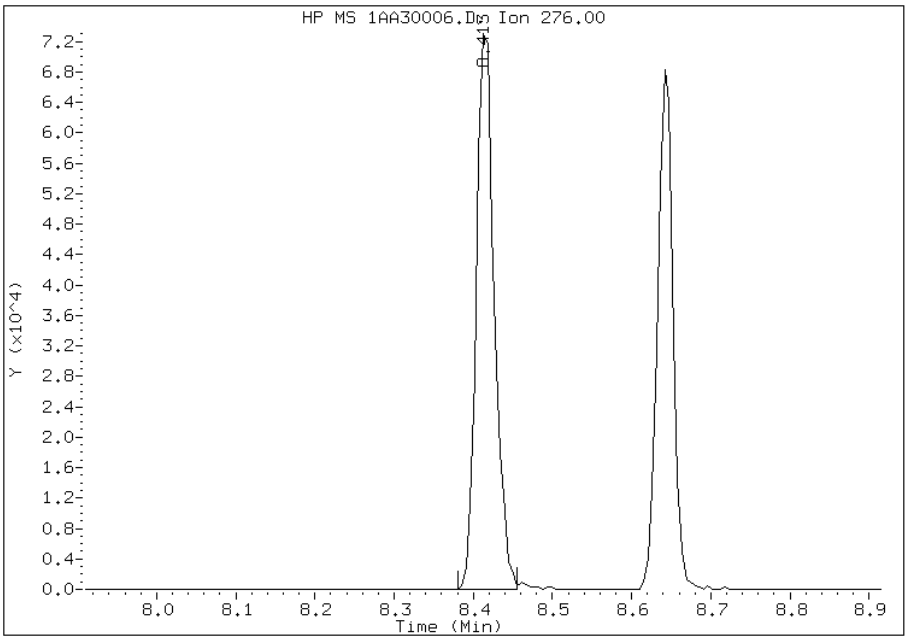
Processing Integration Results

RT: 8.41

Response: 113911

Amount: 5

Conc: 5



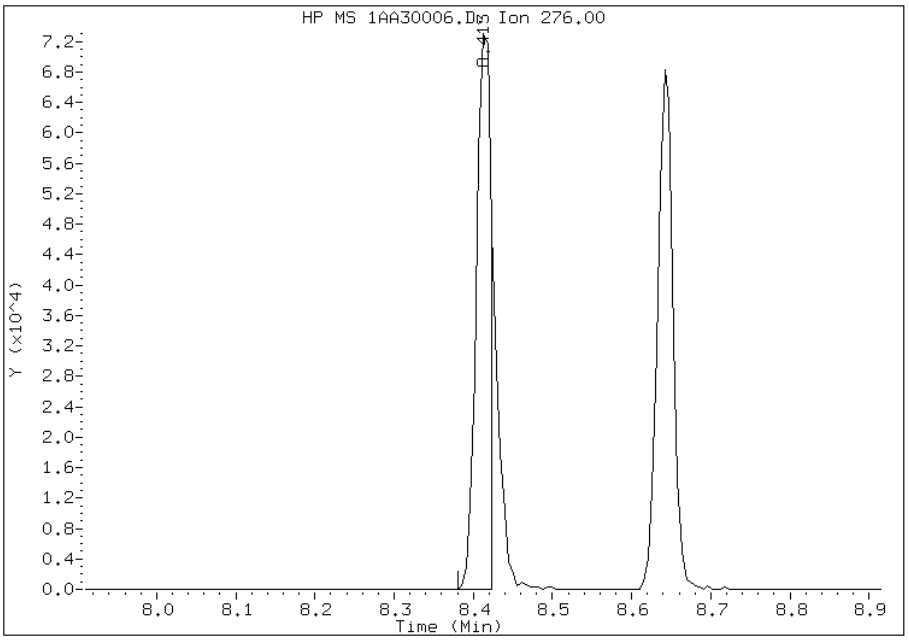
Manual Integration Results

RT: 8.41

Response: 93523

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30007.D
Lab Smp Id: IC-1489897
Inj Date : 30-JAN-2013 12:49
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:34 Cal File: 1AA30006.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.506	2.508	(1.000)	1220847	40.0000	
* 6 Acenaphthene-d10	164	3.537	3.539	(1.000)	698867	40.0000	
* 10 Phenanthrene-d10	188	4.499	4.501	(1.000)	1026818	40.0000	
$ 14 o-Terphenyl	230	4.777	4.779	(1.062)	153886	10.0000	10.3139
* 18 Chrysene-d12	240	6.534	6.536	(1.000)	831641	40.0000	
* 23 Perylene-d12	264	7.635	7.637	(1.000)	807429	40.0000	
2 Naphthalene	128	2.517	2.519	(1.004)	301178	10.0000	10.1636
3 2-Methylnaphthalene	141	2.923	2.925	(1.166)	163104	10.0000	10.2743
4 1-Methylnaphthalene	142	2.976	2.978	(1.188)	184298	10.0000	10.2556
5 Acenaphthylene	152	3.452	3.454	(0.976)	310278	10.0000	10.0548
7 Acenaphthene	154	3.553	3.555	(1.005)	173347	10.0000	10.3788
9 Fluorene	166	3.868	3.871	(1.094)	211811	10.0000	10.0855
11 Phenanthrene	178	4.510	4.517	(1.002)	280076	10.0000	9.9896
12 Anthracene	178	4.547	4.549	(1.011)	287973	10.0000	10.0743
13 Carbazole	167	4.702	4.704	(1.045)	243964	10.0000	9.9566
15 Fluoranthene	202	5.386	5.388	(1.197)	284287	10.0000	10.2274
16 Pyrene	202	5.557	5.559	(0.850)	301919	10.0000	10.0523
17 Benzo(a)anthracene	228	6.524	6.531	(0.998)	254775	10.0000	10.2600
19 Chrysene	228	6.550	6.558	(1.002)	237952	10.0000	9.8311
20 Benzo(b)fluoranthene	252	7.352	7.359	(0.963)	238908	10.0000	10.6013
21 Benzo(k)fluoranthene	252	7.373	7.380	(0.966)	235819	10.0000	10.0085
22 Benzo(a)pyrene	252	7.581	7.594	(0.993)	221540	10.0000	10.3523
24 Indeno(1,2,3-cd)pyrene	276	8.415	8.427	(1.102)	168724	10.0000	9.9847(M)
25 Dibenzo(a,h)anthracene	278	8.425	8.443	(1.104)	171475	10.0000	10.1505
26 Benzo(g,h,i)perylene	276	8.644	8.657	(1.132)	181282	10.0000	10.3551

QC Flag Legend

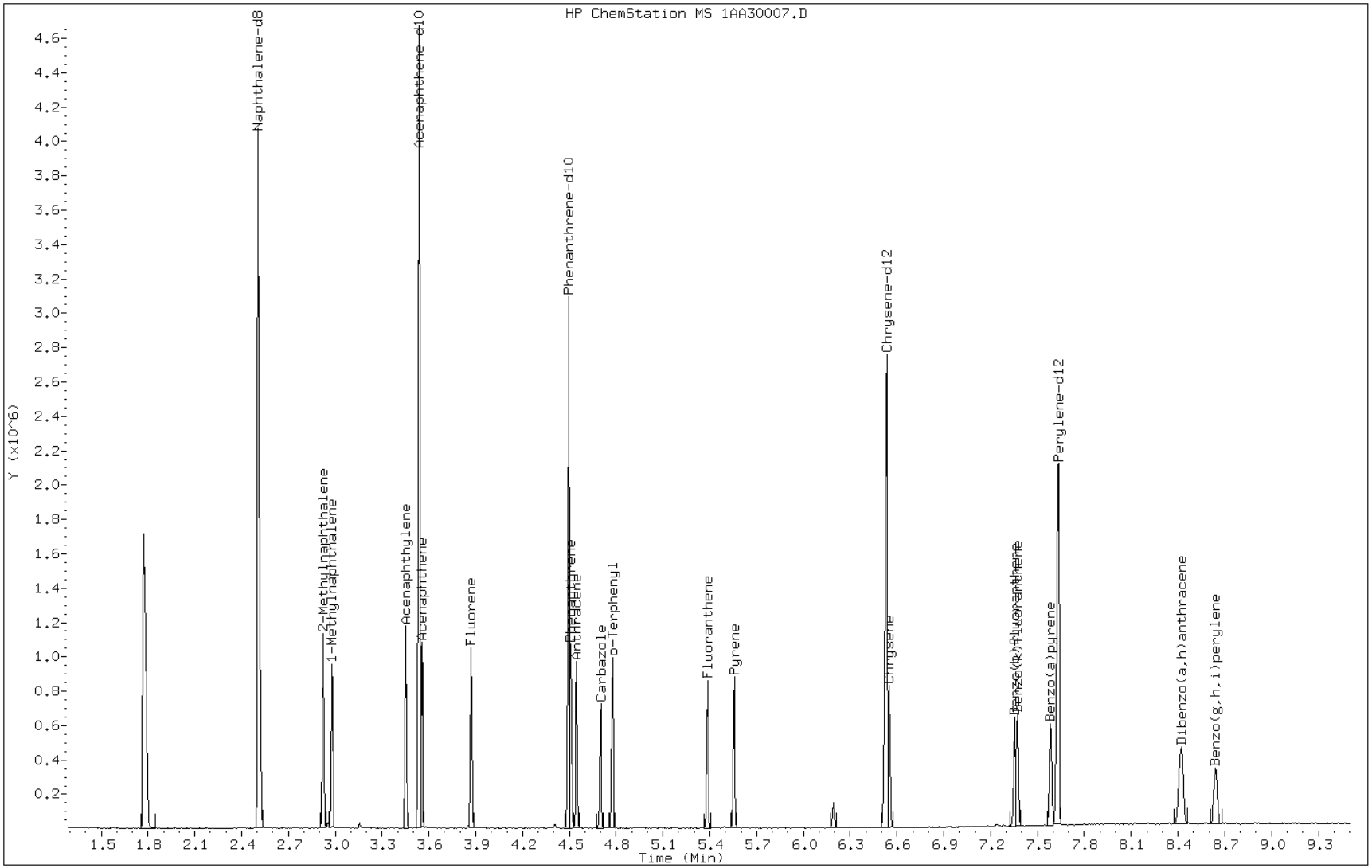
M - Compound response manually integrated.

Data File: 1AA30007.D

Date: 30-JAN-2013 12:49

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1AA30007.D
Inj. Date and Time: 30-JAN-2013 12:49
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

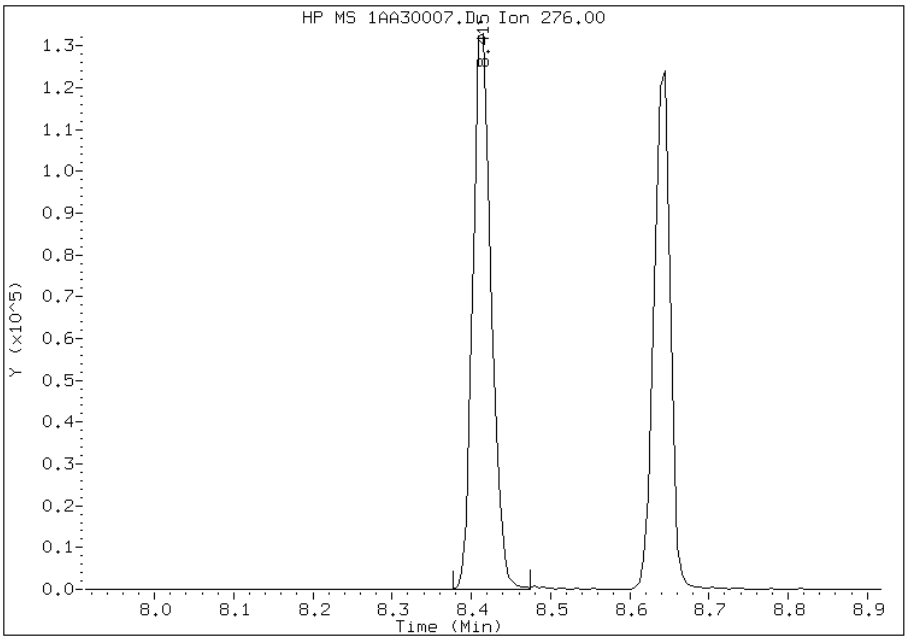
Processing Integration Results

RT: 8.42

Response: 213637

Amount: 11

Conc: 11



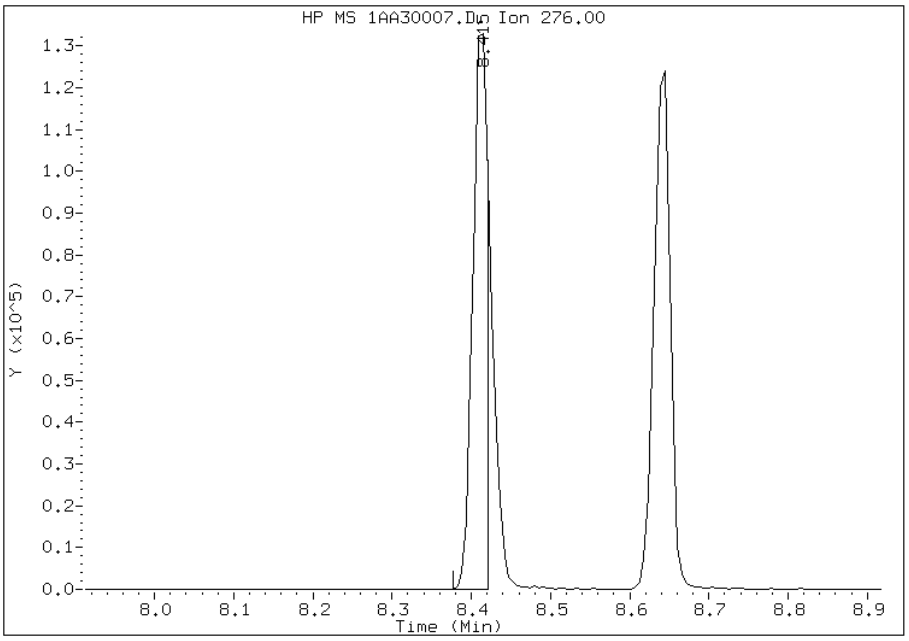
Manual Integration Results

RT: 8.42

Response: 168724

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30008.D
Lab Smp Id: IC-1489899
Inj Date : 30-JAN-2013 13:04
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:49 Cal File: 1AA30007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.506	2.508	(1.000)	1235536	40.0000	
* 6 Acenaphthene-d10	164	3.537	3.539	(1.000)	692518	40.0000	
* 10 Phenanthrene-d10	188	4.498	4.501	(1.000)	1053254	40.0000	
$ 14 o-Terphenyl	230	4.776	4.779	(1.062)	453816	30.0000	29.6527
* 18 Chrysene-d12	240	6.539	6.536	(1.000)	837416	40.0000	
* 23 Perylene-d12	264	7.634	7.637	(1.000)	816422	40.0000	
2 Naphthalene	128	2.522	2.519	(1.006)	931156	30.0000	31.0495
3 2-Methylnaphthalene	141	2.922	2.925	(1.166)	492071	30.0000	30.6282
4 1-Methylnaphthalene	142	2.981	2.978	(1.190)	530019	30.0000	29.1434
5 Acenaphthylene	152	3.456	3.454	(0.977)	932857	30.0000	30.5072
7 Acenaphthene	154	3.558	3.555	(1.006)	506350	30.0000	30.5946
9 Fluorene	166	3.873	3.871	(1.095)	626008	30.0000	30.0812
11 Phenanthrene	178	4.514	4.517	(1.004)	845549	30.0000	29.4018
12 Anthracene	178	4.546	4.549	(1.011)	861847	30.0000	29.3936
13 Carbazole	167	4.701	4.704	(1.045)	761082	30.0000	30.2815
15 Fluoranthene	202	5.390	5.388	(1.198)	867897	30.0000	30.4395
16 Pyrene	202	5.556	5.559	(0.850)	909822	30.0000	30.0834
17 Benzo(a)anthracene	228	6.528	6.531	(0.998)	765266	30.0000	30.6056
19 Chrysene	228	6.555	6.558	(1.002)	708484	30.0000	29.0695
20 Benzo(b)fluoranthene	252	7.356	7.359	(0.964)	708379	30.0000	31.0876
21 Benzo(k)fluoranthene	252	7.378	7.380	(0.966)	712080	30.0000	29.8890
22 Benzo(a)pyrene	252	7.591	7.594	(0.994)	659672	30.0000	30.4861
24 Indeno(1,2,3-cd)pyrene	276	8.419	8.427	(1.103)	528224	30.0000	30.9150(M)
25 Dibenzo(a,h)anthracene	278	8.435	8.443	(1.105)	512548	30.0000	30.0062
26 Benzo(g,h,i)perylene	276	8.654	8.657	(1.134)	538912	30.0000	30.4446

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AA30008.D

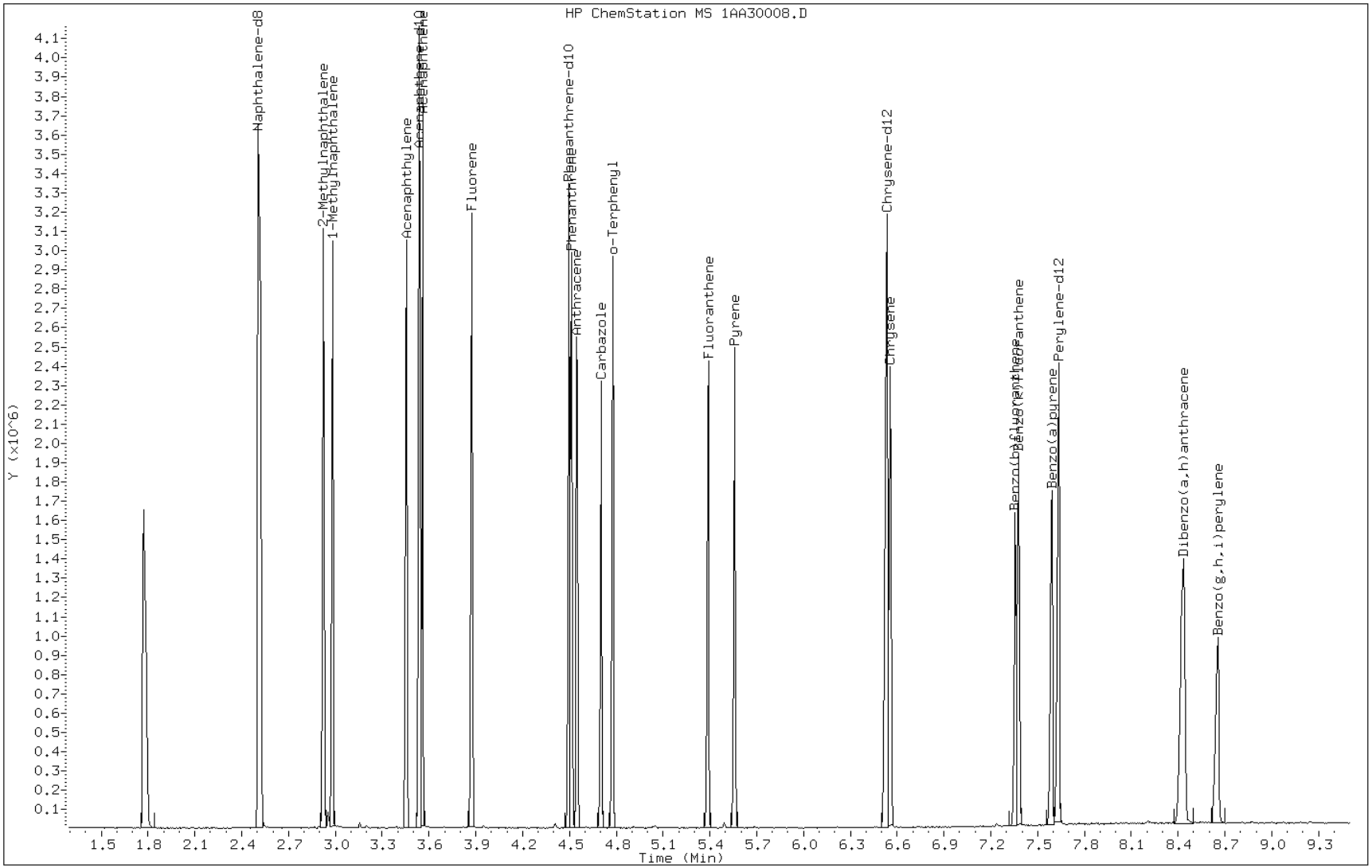
Date: 30-JAN-2013 13:04

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1489899

Operator: SCC



Manual Integration Report

Data File: 1AA30008.D
Inj. Date and Time: 30-JAN-2013 13:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

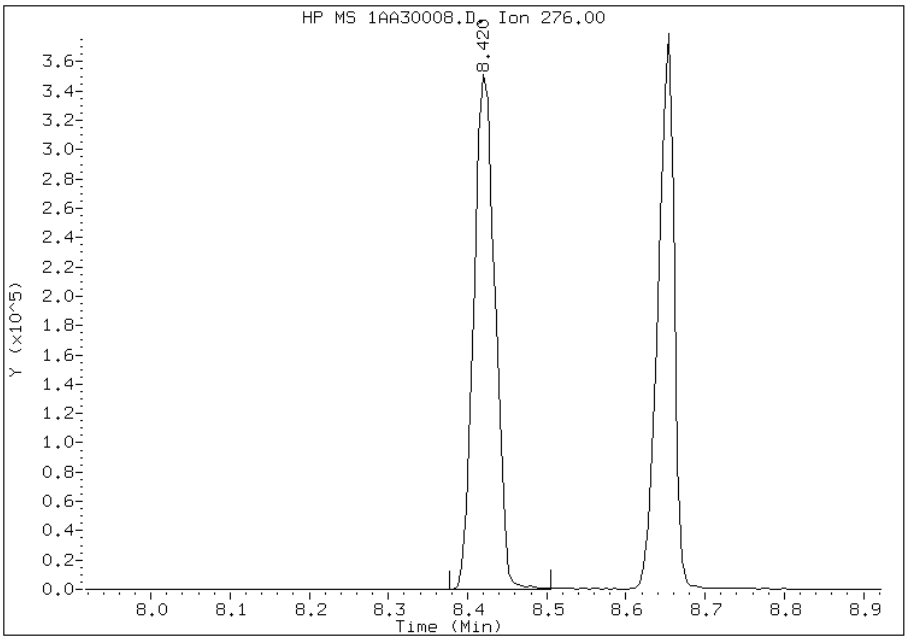
Processing Integration Results

RT: 8.42

Response: 649974

Amount: 32

Conc: 32



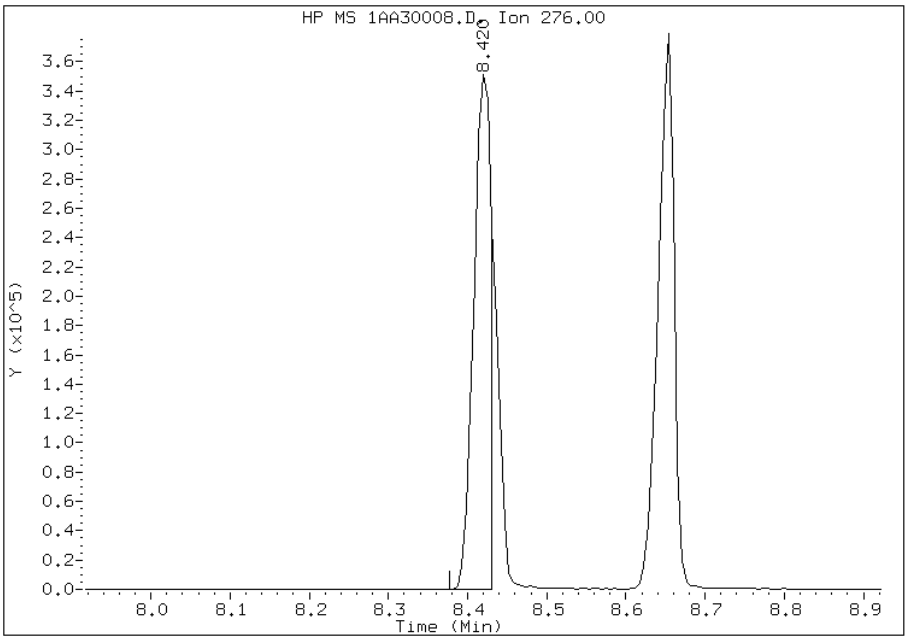
Manual Integration Results

RT: 8.42

Response: 528224

Amount: 31

Conc: 31



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30009.D
Lab Smp Id: IC-1489900
Inj Date : 30-JAN-2013 13:20
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 13:04 Cal File: 1AA30008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.510	2.508	(1.000)	1125072	40.0000	
* 6 Acenaphthene-d10	164	3.541	3.539	(1.000)	630343	40.0000	
* 10 Phenanthrene-d10	188	4.497	4.501	(1.000)	953549	40.0000	
$ 14 o-Terphenyl	230	4.781	4.779	(1.063)	671289	50.0000	48.4490
* 18 Chrysene-d12	240	6.538	6.536	(1.000)	738179	40.0000	
* 23 Perylene-d12	264	7.633	7.637	(1.000)	739344	40.0000	
2 Naphthalene	128	2.521	2.519	(1.004)	1392262	50.0000	50.9834(A)
3 2-Methylnaphthalene	141	2.927	2.925	(1.166)	735363	50.0000	50.2656(A)
4 1-Methylnaphthalene	142	2.980	2.978	(1.187)	794373	50.0000	47.9677
5 Acenaphthylene	152	3.456	3.454	(0.976)	1380232	50.0000	49.5899
7 Acenaphthene	154	3.557	3.555	(1.005)	738267	50.0000	49.0074
9 Fluorene	166	3.872	3.871	(1.094)	932971	50.0000	49.2537
11 Phenanthrene	178	4.514	4.517	(1.004)	1235274	50.0000	47.4449
12 Anthracene	178	4.551	4.549	(1.012)	1278708	50.0000	48.1709
13 Carbazole	167	4.706	4.704	(1.046)	1111447	50.0000	48.8456
15 Fluoranthene	202	5.390	5.388	(1.198)	1257334	50.0000	48.7092
16 Pyrene	202	5.561	5.559	(0.850)	1318254	50.0000	49.4481
17 Benzo(a)anthracene	228	6.527	6.531	(0.998)	1096876	50.0000	49.7652
19 Chrysene	228	6.560	6.558	(1.003)	1033398	50.0000	48.1011
20 Benzo(b)fluoranthene	252	7.361	7.359	(0.964)	1080002	50.0000	52.3376(A)
21 Benzo(k)fluoranthene	252	7.382	7.380	(0.967)	970372	50.0000	44.9769
22 Benzo(a)pyrene	252	7.591	7.594	(0.994)	978664	50.0000	49.9431
24 Indeno(1,2,3-cd)pyrene	276	8.424	8.427	(1.104)	777793	50.0000	50.2670(AM)
25 Dibenzo(a,h)anthracene	278	8.440	8.443	(1.106)	759088	50.0000	49.0724
26 Benzo(g,h,i)perylene	276	8.664	8.657	(1.135)	805634	50.0000	50.2572(A)

QC Flag Legend

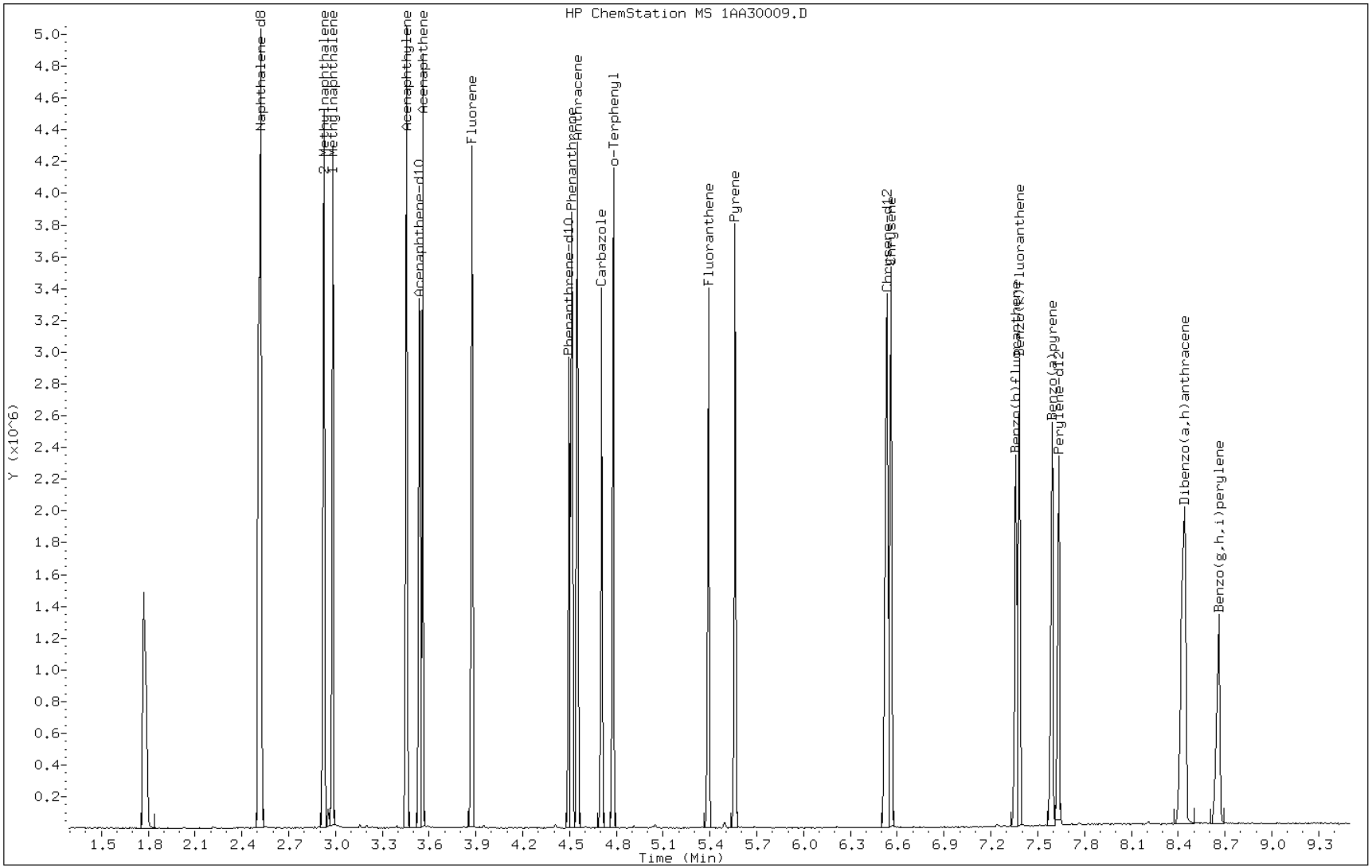
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AA30009.D

Date: 30-JAN-2013 13:20

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489900 Operator: SCC



Manual Integration Report

Data File: 1AA30009.D
Inj. Date and Time: 30-JAN-2013 13:20
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

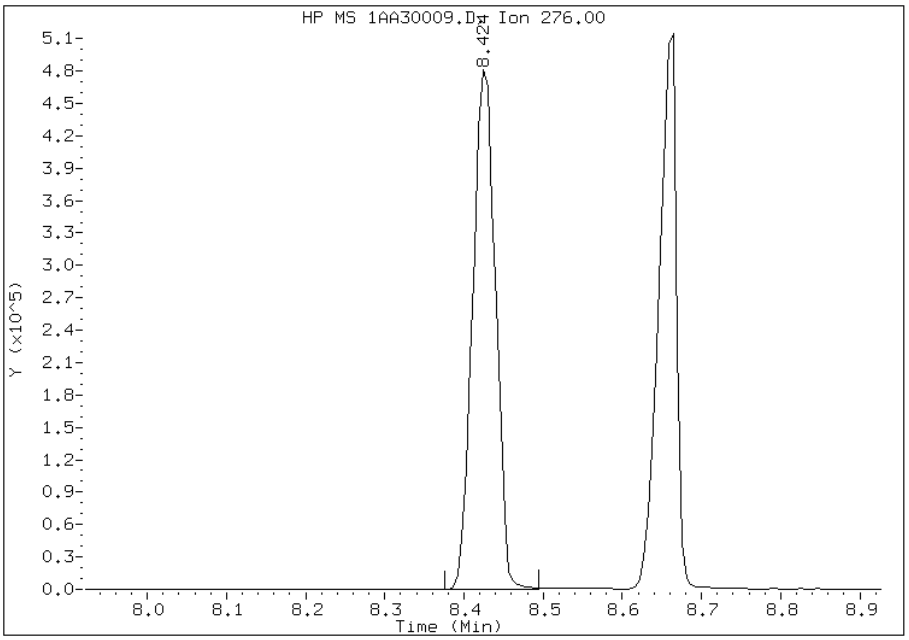
Processing Integration Results

RT: 8.42

Response: 954291

Amount: 60

Conc: 60



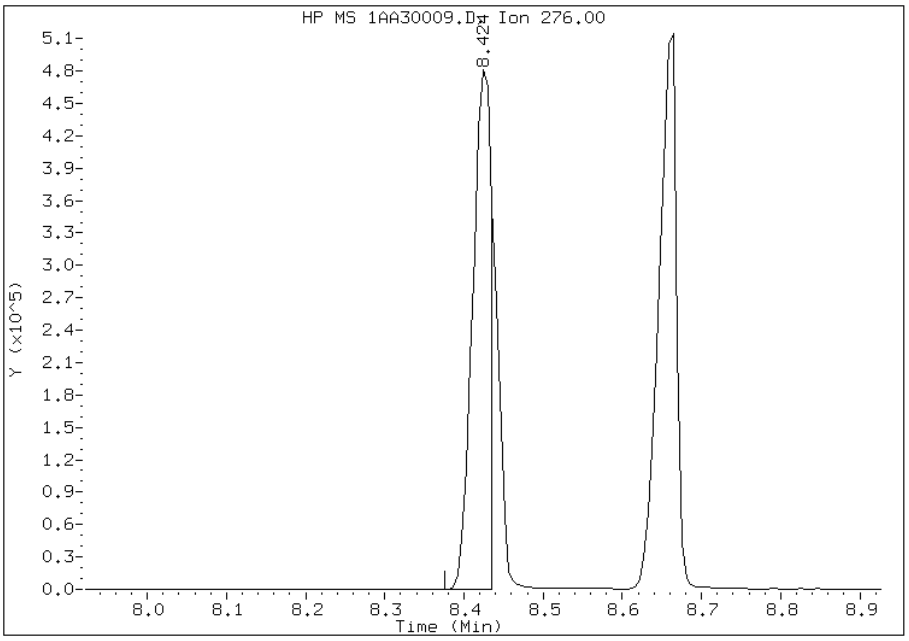
Manual Integration Results

RT: 8.42

Response: 777793

Amount: 50

Conc: 50



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:32
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1 Analy Batch No.: 133227

SDG No.: 68087318-1

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133227/3	1CA07013.D
Level 2	IC 660-133227/4	1CA07014.D
Level 3	IC 660-133227/5	1CA07015.D
Level 4	IC 660-133227/6	1CA07016.D
Level 5	ICIS 660-133227/7	1CA07017.D
Level 6	IC 660-133227/8	1CA07018.D
Level 7	IC 660-133227/9	1CA07019.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.0948 1.0545	0.9495 1.0923	1.1033	1.0932	1.0321	Ave		1.0599			0.0000	5.2		15.0			
2-Methylnaphthalene	0.7336 0.6800	0.6777 0.6981	0.6603	0.7017	0.6730	Ave		0.6892			0.0000	3.5		15.0			
1-Methylnaphthalene	0.5817 0.6643	0.5360 0.6684	0.6316	0.6552	0.6507	Ave		0.6268			0.0000	7.9		15.0			
Acenaphthylene	1.7181 1.6465	1.4412 1.6572	1.4779	1.5857	1.6130	Ave		1.5914			0.0000	6.3		15.0			
Acenaphthene	1.1390 0.9603	1.0282 0.9633	0.9458	1.0094	0.9406	Ave		0.9981			0.0000	7.0		15.0			
Fluorene	1.3483 1.3015	1.2058 1.2912	1.2211	1.3274	1.2732	Ave		1.2812			0.0000	4.1		15.0			
Phenanthrene	1.5909 1.1271	1.1807 1.1120	1.0815	1.1674	1.0983	Ave		1.1940			0.0000	15.0		15.0			
Anthracene	1.0132 1.1091	0.9972 1.1231	1.0674	1.1234	1.0967	Ave		1.0757			0.0000	4.8		15.0			
Carbazole	0.8906 0.9895	0.8628 0.9866	0.8811	0.9644	0.9658	Ave		0.9344			0.0000	5.8		15.0			
Fluoranthene	0.9799 1.2313	1.0735 1.2497	1.1621	1.2234	1.2469	Ave		1.1667			0.0000	8.9		15.0			
Pyrene	0.8059 1.1858	1.0113 1.1112	1.0616	1.1543	1.1241	Ave		1.0649			0.0000	12.0		15.0			
Benzo[a]anthracene	1.4670 1.0800	0.9986 1.0530	1.0400	1.0600	1.0228	Ave		1.1031			0.0000	14.7		15.0			
Chrysene	1.2057 1.1045	1.2101 1.0821	1.1125	1.1626	1.0982	Ave		1.1394			0.0000	4.7		15.0			
Benzo[b]fluoranthene	0.8713 1.0190	0.8691 1.1293	0.9456	1.0325	0.9979	Ave		0.9807			0.0000	9.5		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1 Analy Batch No.: 133227

SDG No.: 68087318-1

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9252 1.2002	0.9572 1.1097	1.0697	1.1497	1.1509	Ave		1.0804			0.0000	9.6		15.0			
Benzo[a]pyrene	0.7248 1.0316	0.8455 1.0436	0.9117	0.9956	0.9794	Ave		0.9332			0.0000	12.3		15.0			
Indeno[1,2,3-cd]pyrene	0.6998 0.9422	0.4820 0.8813	0.8137	0.8316	0.9002	LinF		0.8963			0.0000				0.9980		0.9900
Dibenz(a,h)anthracene	0.7712 0.9005	0.7805 0.9132	0.8152	0.8774	0.8585	Ave		0.8452			0.0000	6.7		15.0			
Benzo[g,h,i]perylene	0.8112 0.9967	0.7908 0.9698	0.9172	0.9667	0.9207	Ave		0.9104			0.0000	8.8		15.0			
o-Terphenyl	0.5355 0.5984	0.5589 0.5994	0.5931	0.6168	0.6005	Ave		0.5861			0.0000	4.8		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1 Analy Batch No.: 133227

SDG No.: 68087318-1

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133227/3	1CA07013.D
Level 2	IC 660-133227/4	1CA07014.D
Level 3	IC 660-133227/5	1CA07015.D
Level 4	IC 660-133227/6	1CA07016.D
Level 5	ICIS 660-133227/7	1CA07017.D
Level 6	IC 660-133227/8	1CA07018.D
Level 7	IC 660-133227/9	1CA07019.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	11168 1744899	49180 2683662	279616	562439	1132608	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7484 1125305	35101 1715115	167348	360991	738557	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	5934 1099203	27760 1642265	160060	337071	714057	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	13060 2078096	55638 3143102	277566	597168	1333542	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8658 1212087	39694 1826987	177622	380155	777625	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10249 1642686	46551 2448772	229328	499898	1052584	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	22944 2725408	87138 3980821	382657	852208	1725035	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	14612 2681981	73594 4020655	377684	820090	1722588	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	12845 2392859	63677 3531798	311754	704012	1516911	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	14132 2977438	79223 4473693	411201	893123	1958378	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13699 3254878	87607 4789001	444176	1032505	2128584	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	24935 2964525	86510 4538204	435113	948119	1936797	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	20495 3031738	104834 4663655	465452	1039885	2079538	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	15170 2773683	75135 4834833	409334	924867	1891292	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	16108 3267104	82752 4750961	463057	1029821	2181246	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-1 Analy Batch No.: 133227

SDG No.: 68087318-1

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	12619 2808161	73092 4467973	394642	891772	1856241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	LinF	12184 2564602	41666 3772962	352250	744949	1706161	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13428 2451088	67472 3909634	352888	785898	1627151	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14123 2713188	68360 4151782	397056	865965	1745002	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7723 1447125	41244 2145891	209857	450297	943151	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07013.D
Lab Smp Id: IC-1489894
Inj Date : 07-JAN-2013 15:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2040281	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1520300	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2884412	40.0000	
$ 14 o-Terphenyl	230	6.162	6.162	(1.042)	7723	0.20000	0.1827
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3399562	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3482211	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	11168	0.20000	0.2065(Q)
3 2-Methylnaphthalene	142	4.304	4.304	(1.113)	7484	0.20000	0.2128
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	5934	0.20000	0.1855
5 Acenaphthylene	152	4.868	4.868	(0.982)	13060	0.20000	0.2159
7 Acenaphthene	154	4.974	4.974	(1.004)	8658	0.20000	0.2282
9 Fluorene	166	5.298	5.298	(1.069)	10249	0.20000	0.2104
11 Phenanthrene	178	5.927	5.927	(1.002)	22944	0.20000	0.2664
12 Anthracene	178	5.962	5.962	(1.008)	14612	0.20000	0.1883
13 Carbazole	167	6.074	6.074	(1.027)	12845	0.20000	0.1906
15 Fluoranthene	202	6.774	6.774	(1.145)	14132	0.20000	0.1679
16 Pyrene	202	6.945	6.945	(0.883)	13699	0.20000	0.1513
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	24935	0.20000	0.2659
19 Chrysene	228	7.886	7.886	(1.002)	20495	0.20000	0.2116
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	15170	0.20000	0.1776
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	16108	0.20000	0.1712(M)
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	12619	0.20000	0.1553
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	12184	0.20000	0.1764(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	13428	0.20000	0.1824(M)
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	14123	0.20000	0.1781(M)

QC Flag Legend

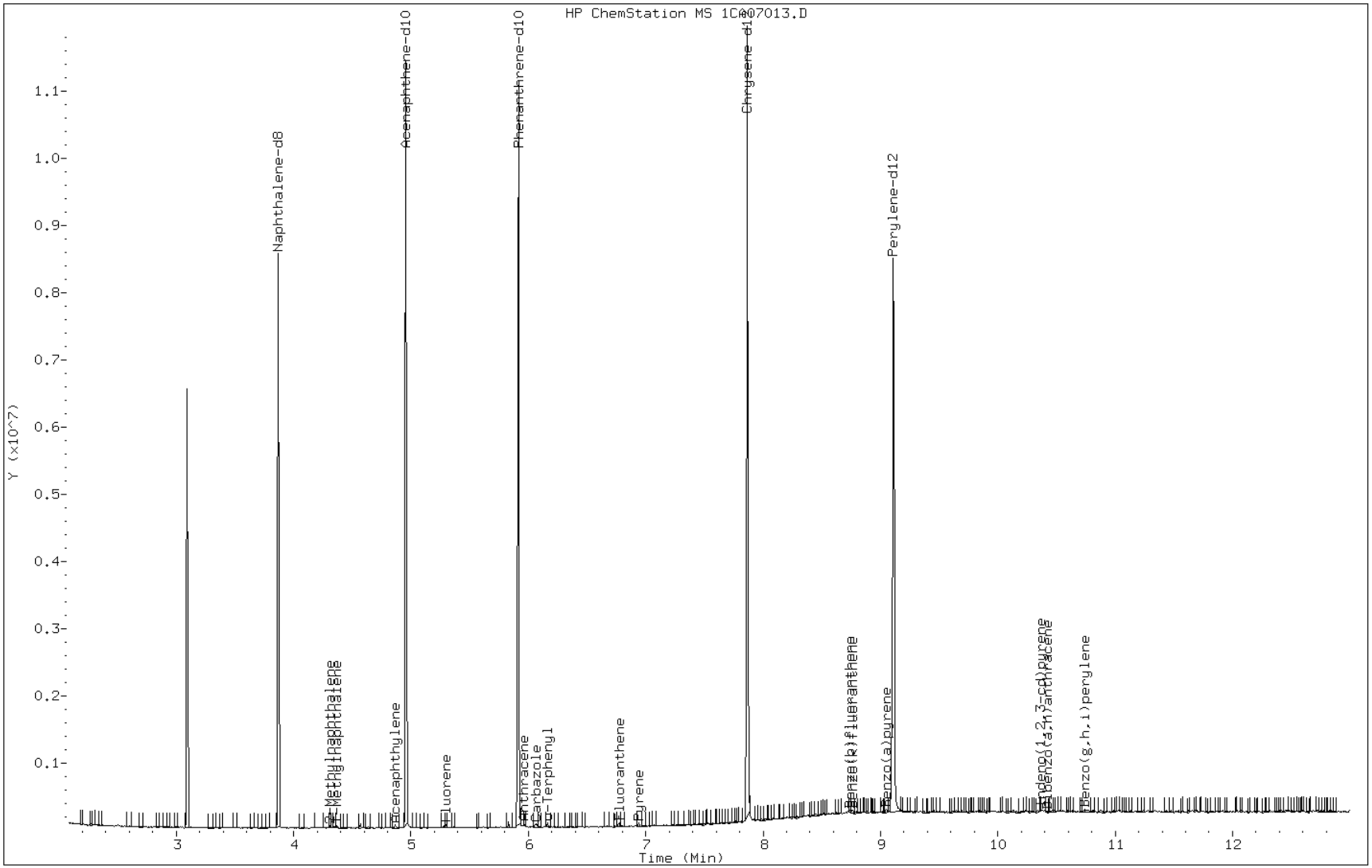
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07013.D

Date: 07-JAN-2013 15:23

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/08/2013

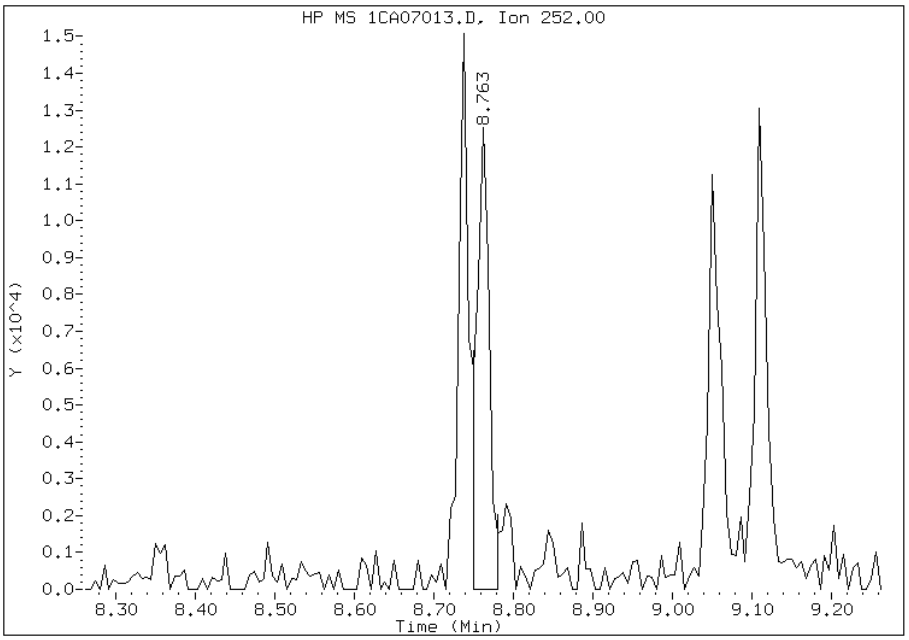
Processing Integration Results

RT: 8.76

Response: 14049

Amount: 0

Conc: 0



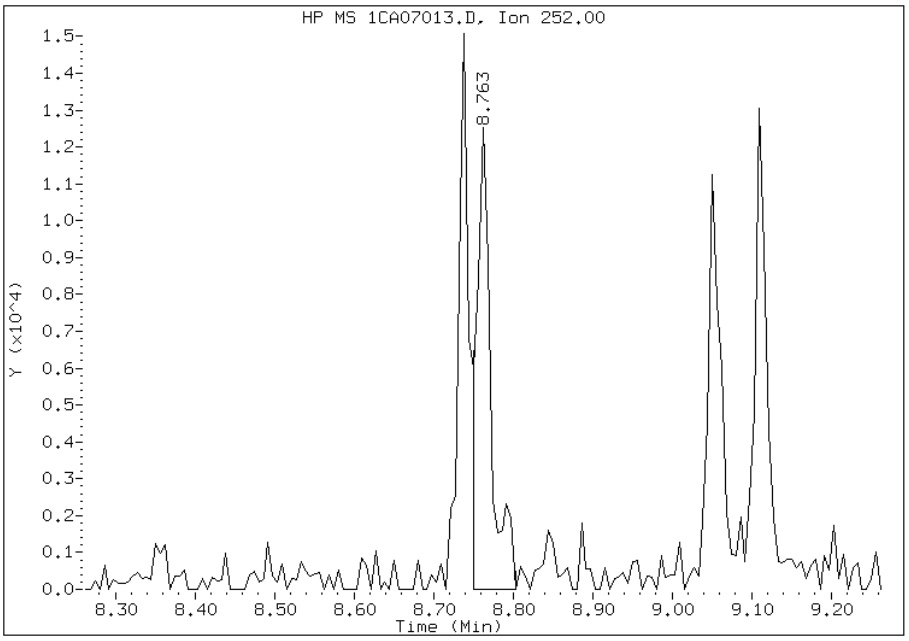
Manual Integration Results

RT: 8.76

Response: 16108

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

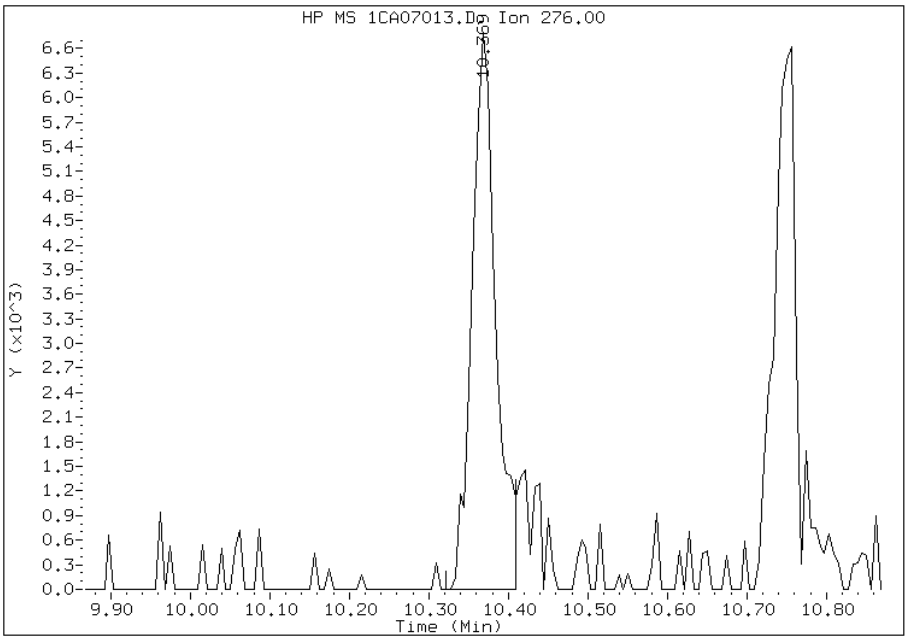
Processing Integration Results

RT: 10.37

Response: 14154

Amount: 0

Conc: 0



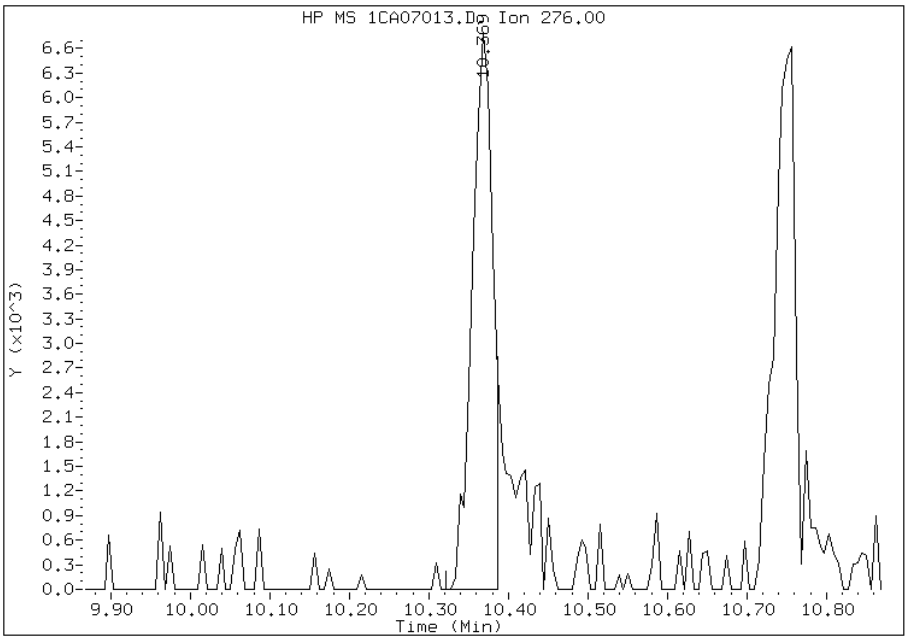
Manual Integration Results

RT: 10.37

Response: 12184

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

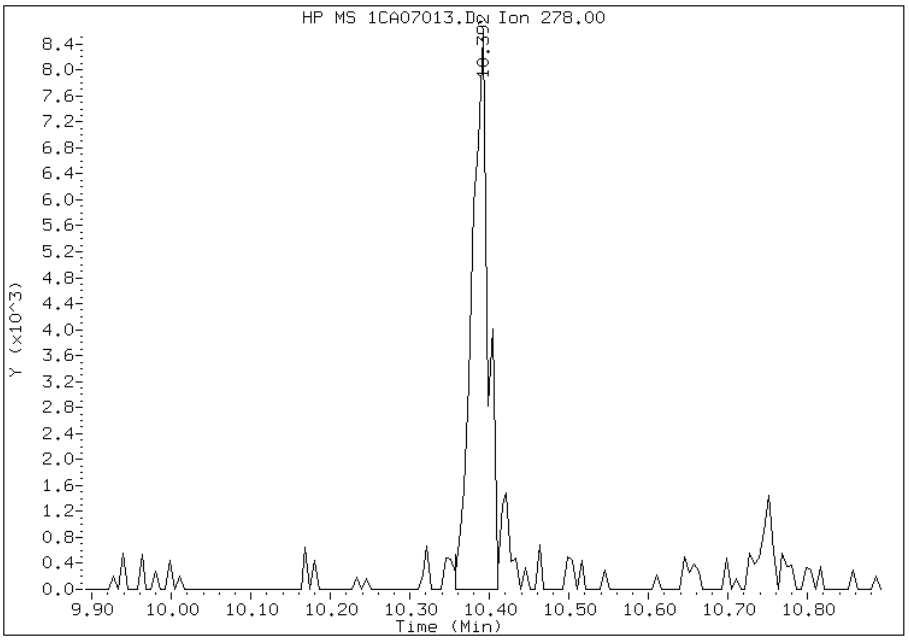
Processing Integration Results

RT: 10.39

Response: 12138

Amount: 0

Conc: 0



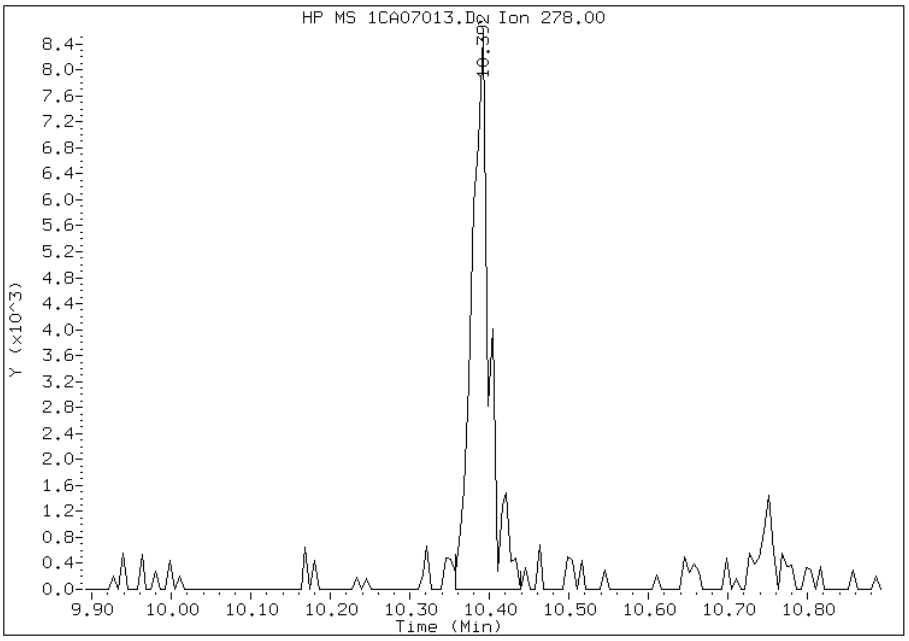
Manual Integration Results

RT: 10.39

Response: 13428

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

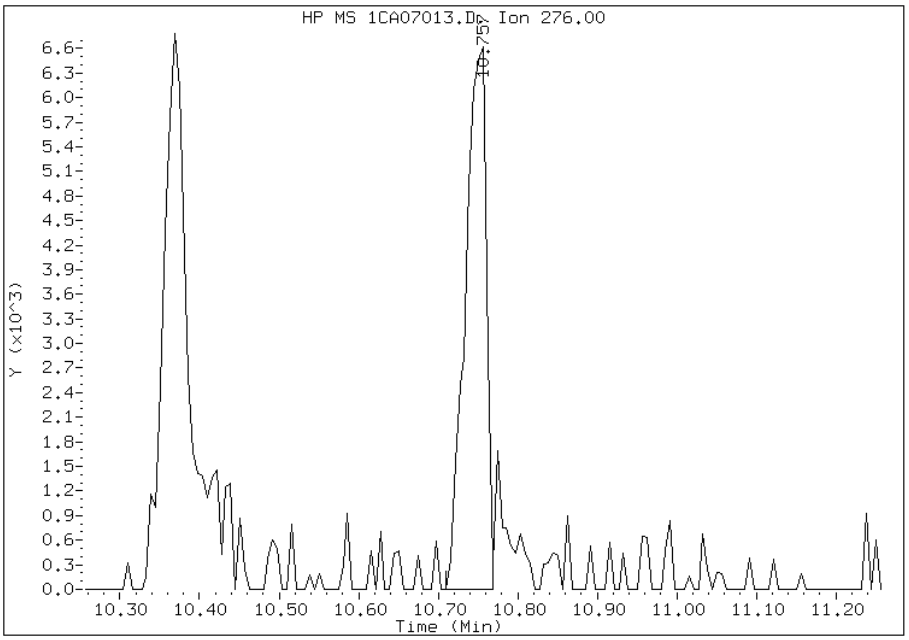
Processing Integration Results

RT: 10.76

Response: 12183

Amount: 0

Conc: 0



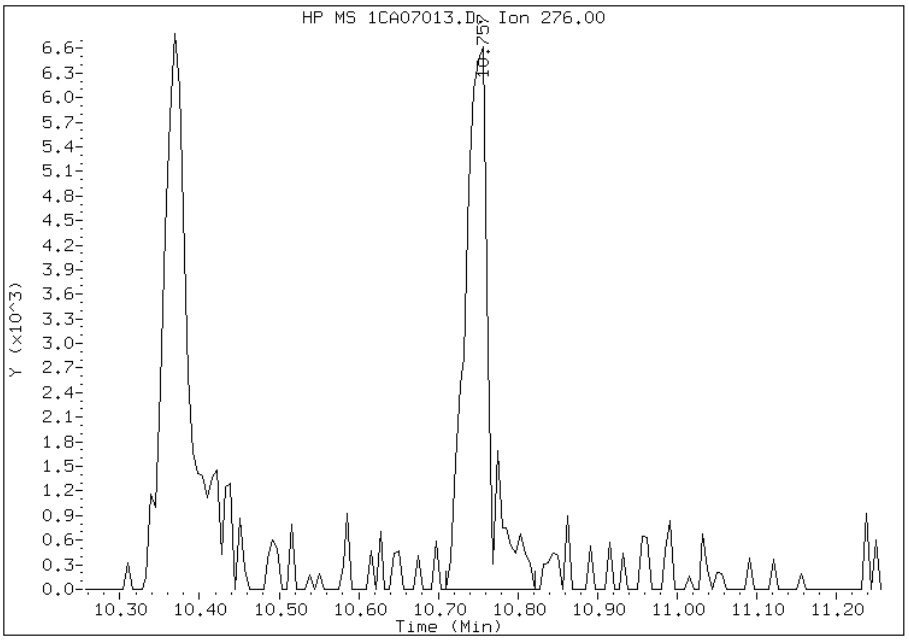
Manual Integration Results

RT: 10.76

Response: 14123

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07014.D
Lab Smp Id: IC-1489895
Inj Date : 07-JAN-2013 15:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:23 Cal File: 1CA07013.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2071724	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1544247	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2952062	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	41244	1.00000	0.9535
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3465163	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3457962	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	49180	1.00000	0.8958(Q)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	35101	1.00000	0.9833
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	27760	1.00000	0.8550
5 Acenaphthylene	152	4.868	4.868	(0.982)	55638	1.00000	0.9056
7 Acenaphthene	154	4.974	4.974	(1.004)	39694	1.00000	1.0301
9 Fluorene	166	5.298	5.298	(1.069)	46551	1.00000	0.9411
11 Phenanthrene	178	5.933	5.933	(1.003)	87138	1.00000	0.9888
12 Anthracene	178	5.962	5.962	(1.008)	73594	1.00000	0.9269
13 Carbazole	167	6.074	6.074	(1.027)	63677	1.00000	0.9233
15 Fluoranthene	202	6.774	6.774	(1.145)	79223	1.00000	0.9201
16 Pyrene	202	6.945	6.945	(0.883)	87607	1.00000	0.9496
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	86510	1.00000	0.9053
19 Chrysene	228	7.886	7.886	(1.002)	104834	1.00000	1.0620(M)
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	75135	1.00000	0.8862
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	82752	1.00000	0.8860
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	73092	1.00000	0.9060
24 Indeno(1,2,3-cd)pyrene	276	10.362	10.362	(1.138)	41666	1.00000	0.6078(M)
25 Dibenzo(a,h)anthracene	278	10.380	10.380	(1.139)	67472	1.00000	0.9234(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	68360	1.00000	0.8685(M)

QC Flag Legend

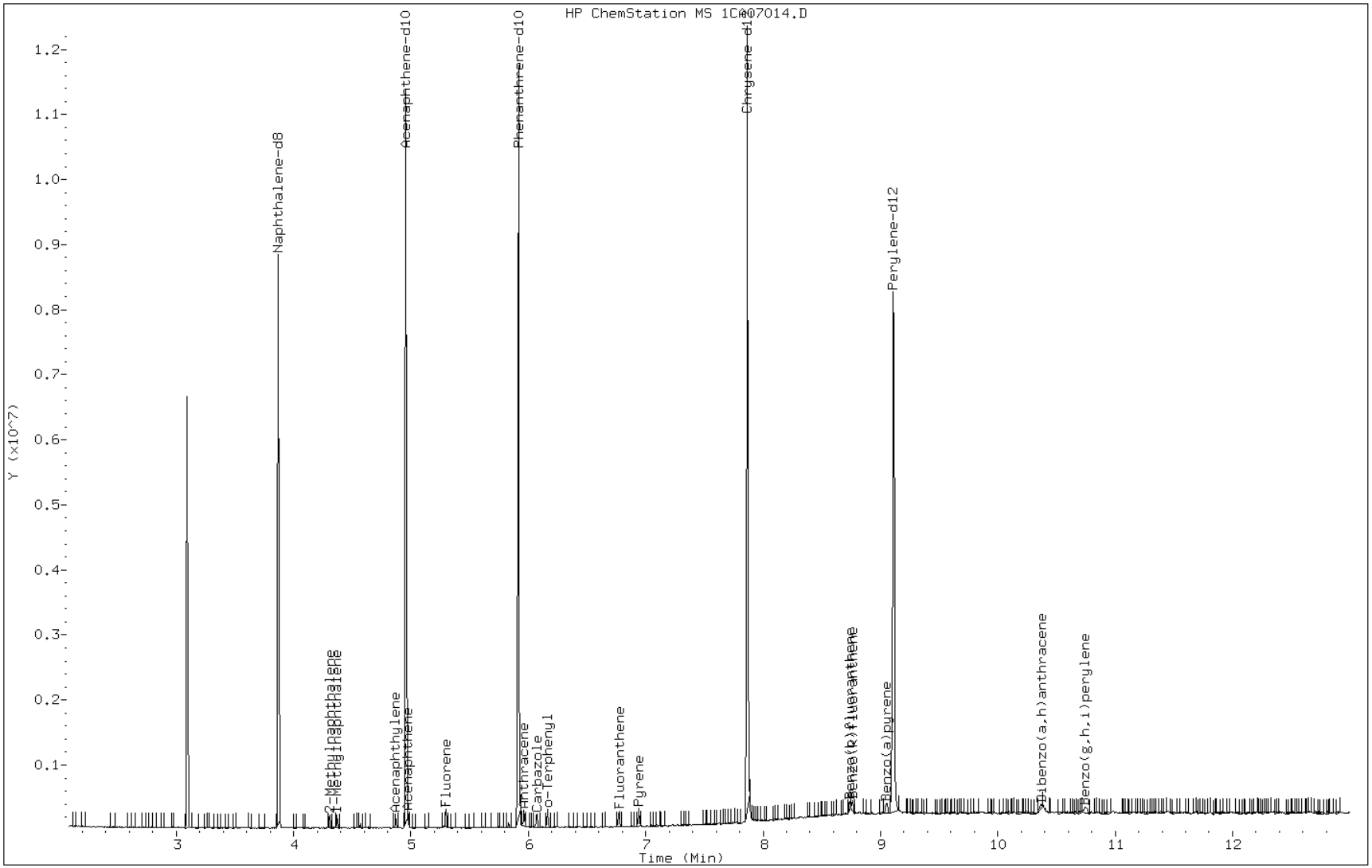
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07014.D

Date: 07-JAN-2013 15:41

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 01/08/2013

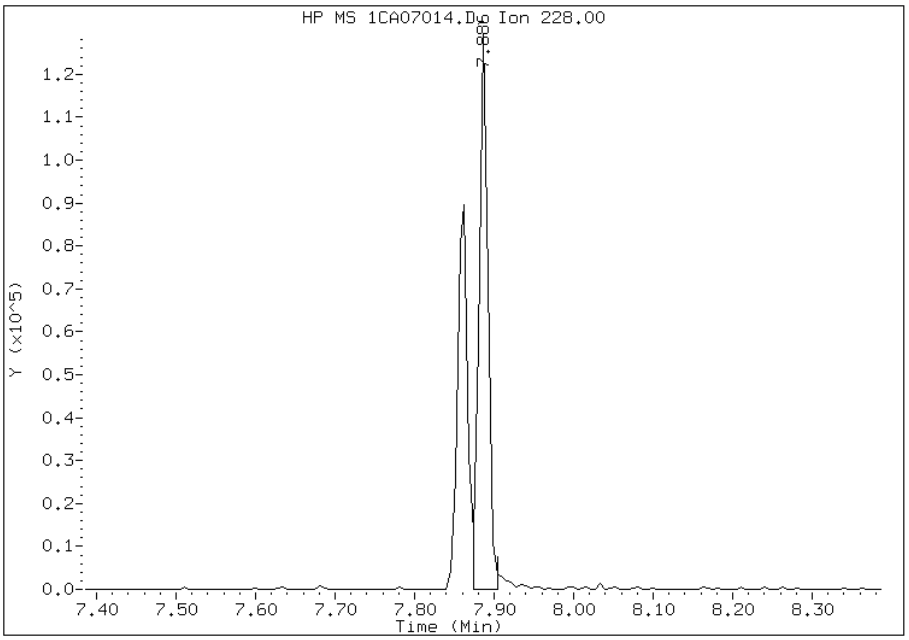
Processing Integration Results

RT: 7.89

Response: 101100

Amount: 1

Conc: 1



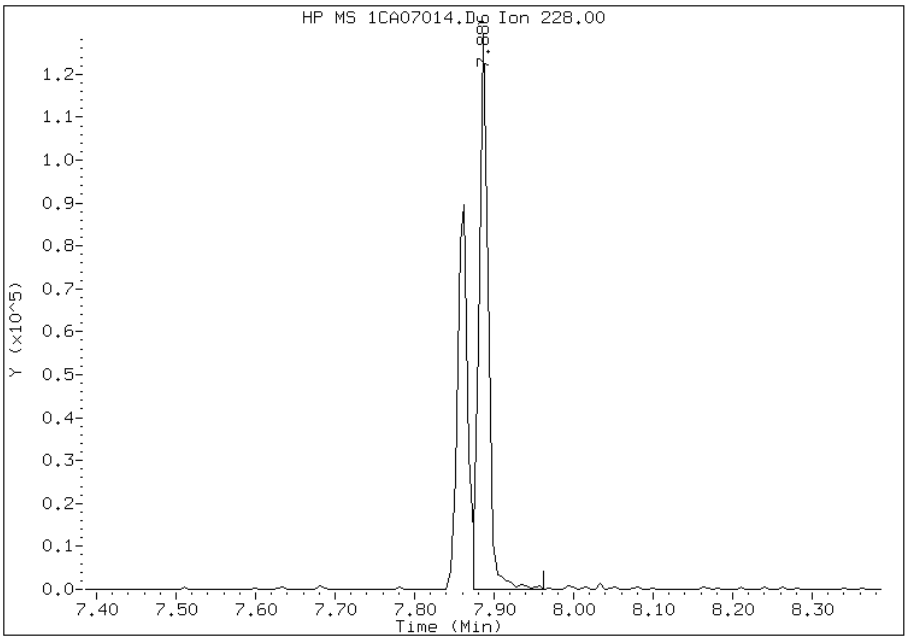
Manual Integration Results

RT: 7.89

Response: 104834

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

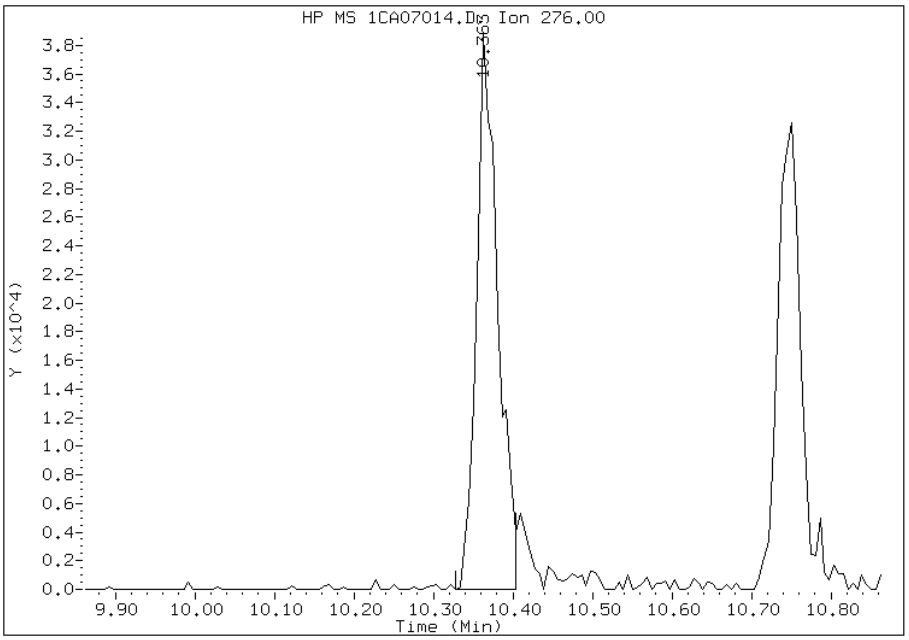
Processing Integration Results

RT: 10.36

Response: 72270

Amount: 1

Conc: 1



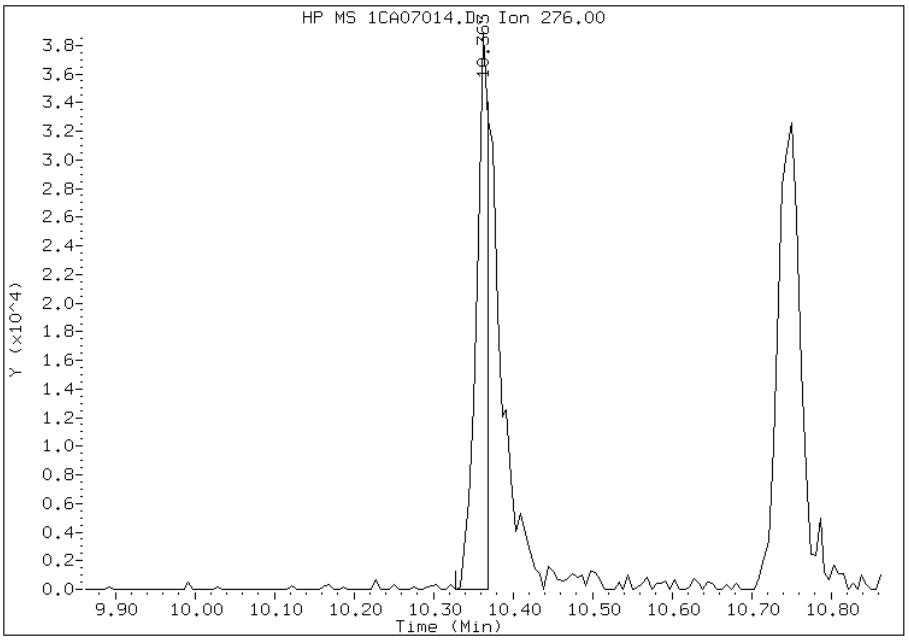
Manual Integration Results

RT: 10.36

Response: 41666

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

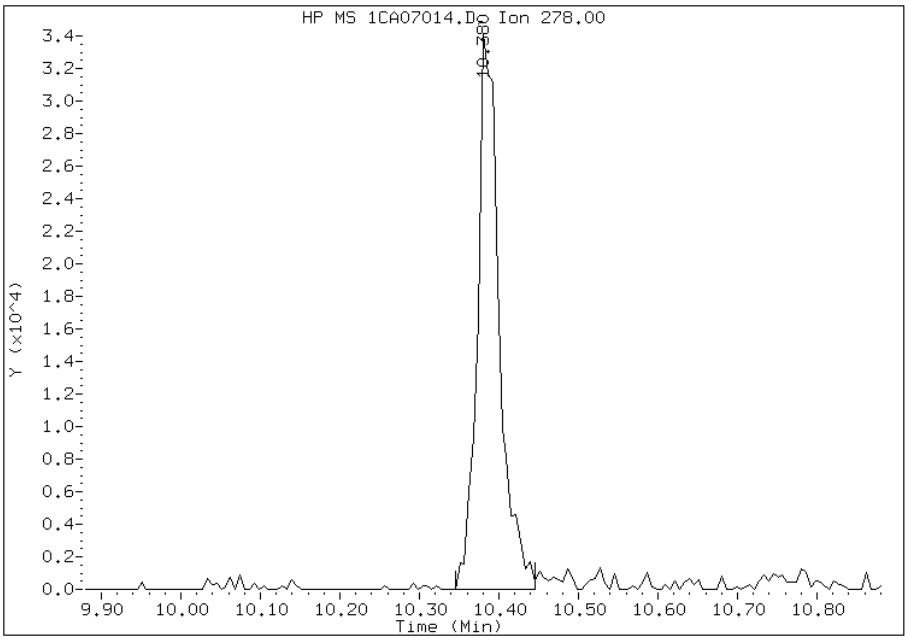
Processing Integration Results

RT: 10.38

Response: 65243

Amount: 1

Conc: 1



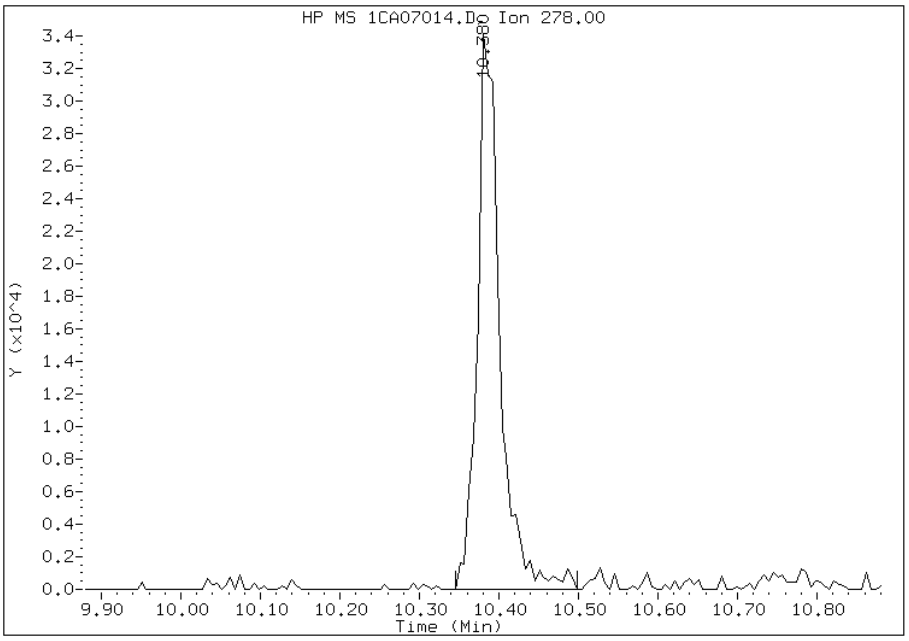
Manual Integration Results

RT: 10.38

Response: 67472

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

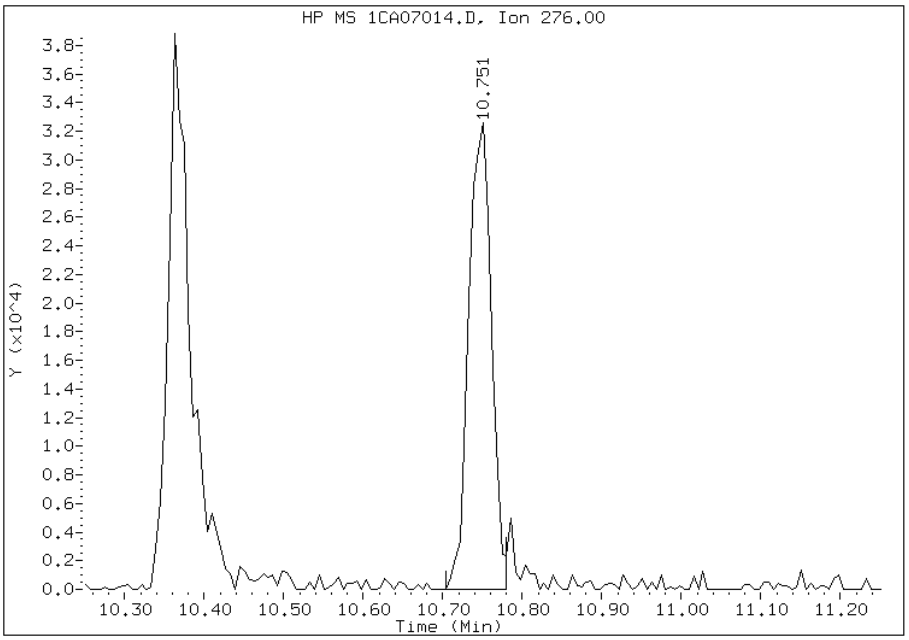
Processing Integration Results

RT: 10.75

Response: 64475

Amount: 1

Conc: 1



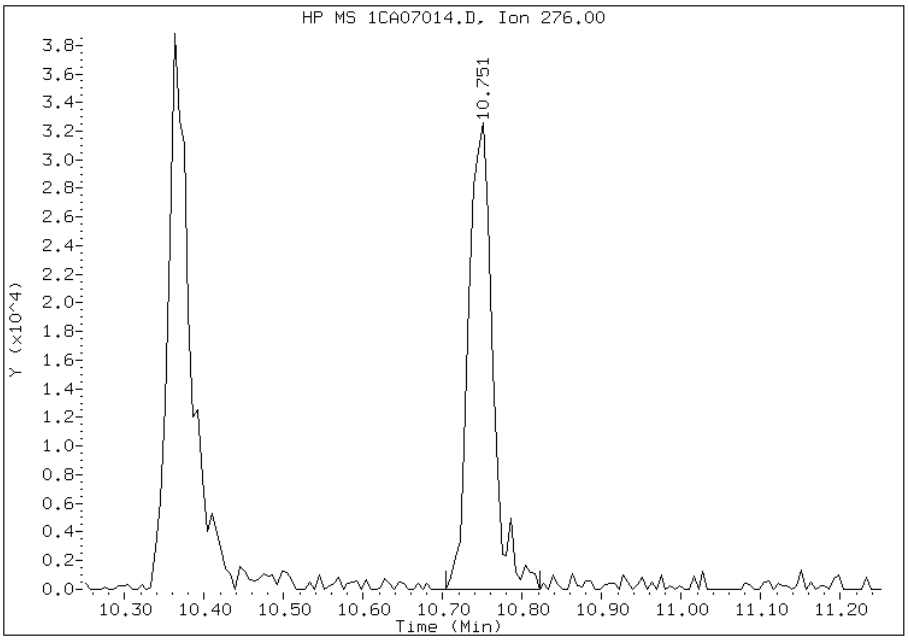
Manual Integration Results

RT: 10.75

Response: 68360

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07015.D
Lab Smp Id: IC-1489896
Inj Date : 07-JAN-2013 15:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:41 Cal File: 1CA07014.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2027501	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1502475	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2830661	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	209857	5.00000	5.0597
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3347096	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3463066	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	279616	5.00000	5.2044
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	167348	5.00000	4.7904
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	160060	5.00000	5.0377
5 Acenaphthylene	152	4.869	4.869	(0.982)	277566	5.00000	4.6435
7 Acenaphthene	154	4.974	4.974	(1.004)	177622	5.00000	4.7378
9 Fluorene	166	5.298	5.298	(1.069)	229328	5.00000	4.7653
11 Phenanthrene	178	5.927	5.927	(1.002)	382657	5.00000	4.5288
12 Anthracene	178	5.963	5.963	(1.008)	377684	5.00000	4.9613
13 Carbazole	167	6.074	6.074	(1.027)	311754	5.00000	4.7146
15 Fluoranthene	202	6.774	6.774	(1.145)	411201	5.00000	4.9805
16 Pyrene	202	6.945	6.945	(0.883)	444176	5.00000	4.9847
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	435113	5.00000	4.7140
19 Chrysene	228	7.886	7.886	(1.002)	465452	5.00000	4.8819
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	409334	5.00000	4.8211
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	463057	5.00000	4.9506
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	394642	5.00000	4.8847
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	352250	5.00000	5.1308(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	352888	5.00000	4.8224(M)
26 Benzo(g,h,i)perylene	276	10.751	10.751	(1.180)	397056	5.00000	5.0373(M)

QC Flag Legend

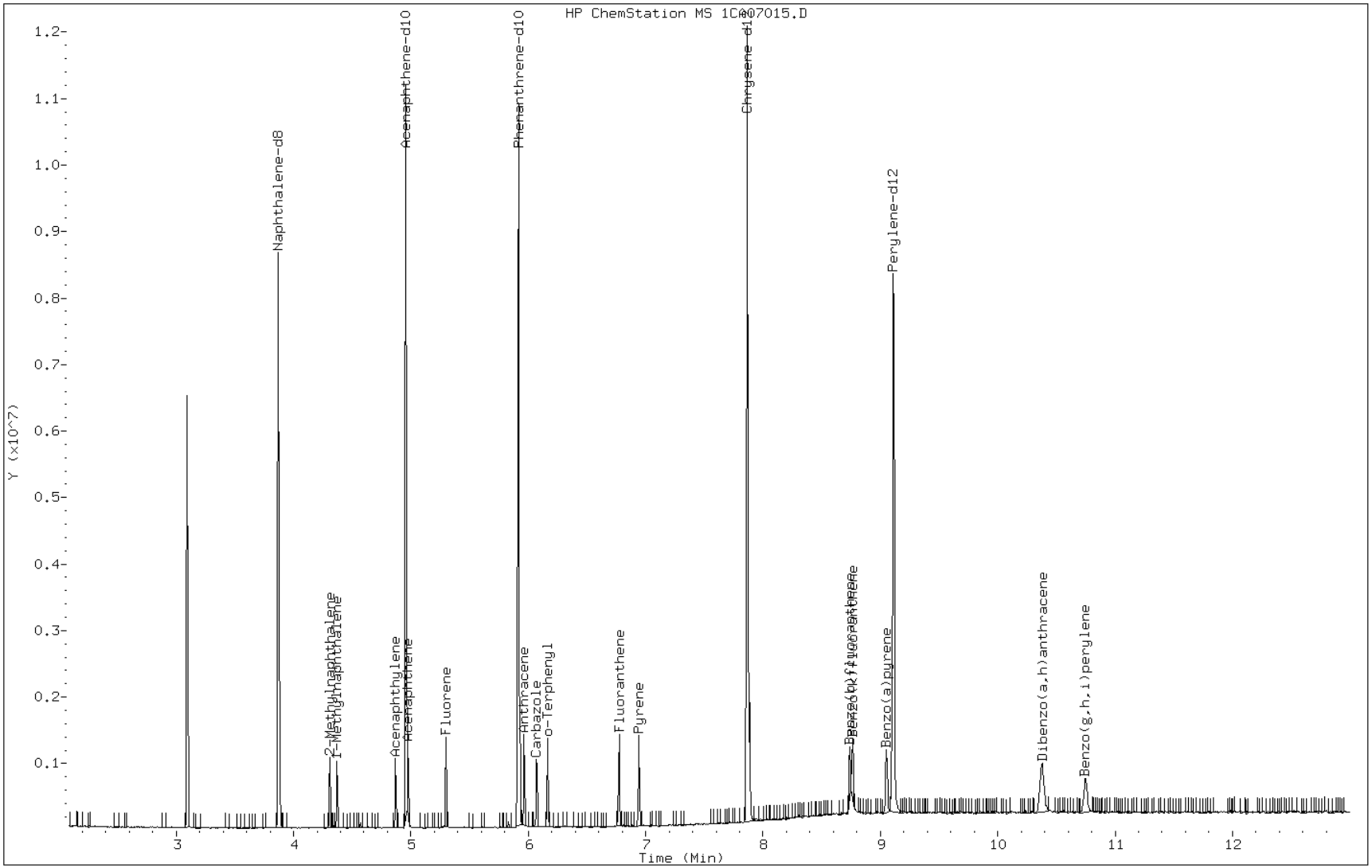
M - Compound response manually integrated.

Data File: 1CA07015.D

Date: 07-JAN-2013 15:59

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489896 Operator: SCC



Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

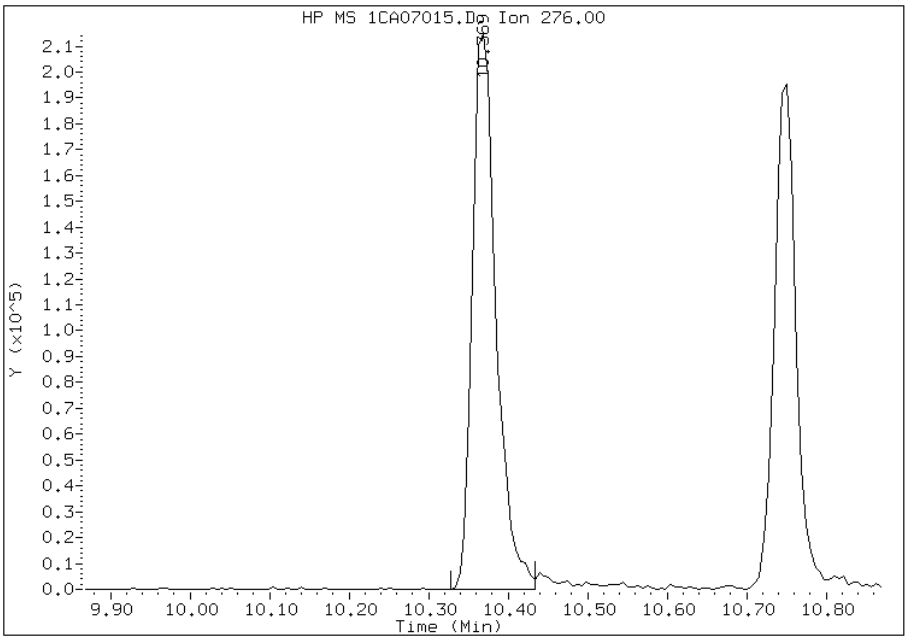
Processing Integration Results

RT: 10.37

Response: 445493

Amount: 6

Conc: 6



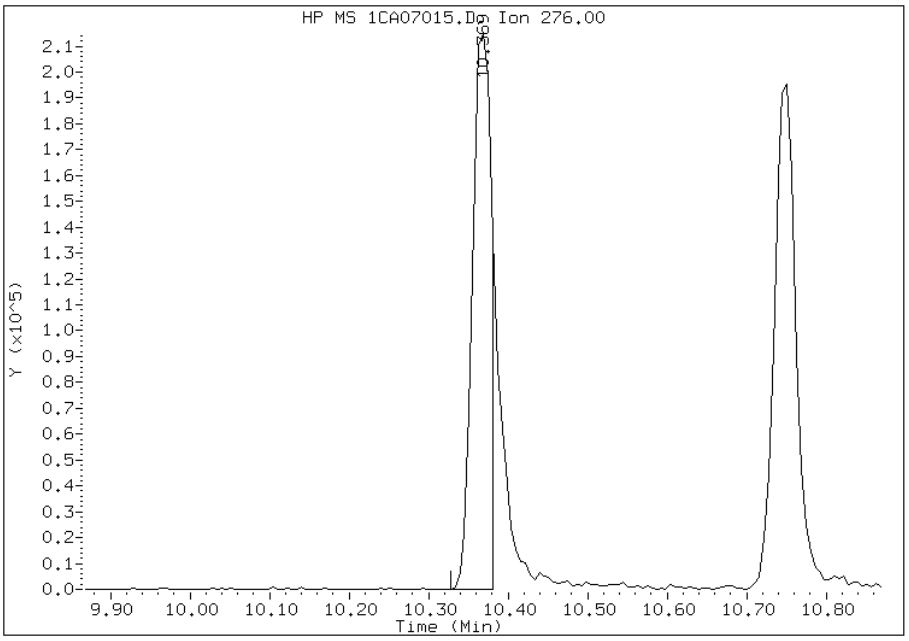
Manual Integration Results

RT: 10.37

Response: 352250

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

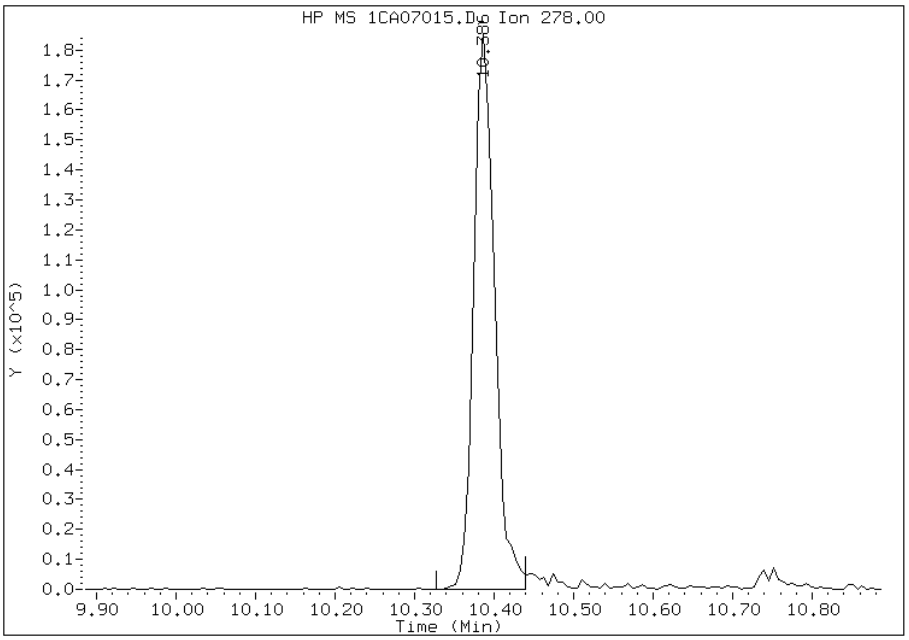
Processing Integration Results

RT: 10.39

Response: 335936

Amount: 5

Conc: 5



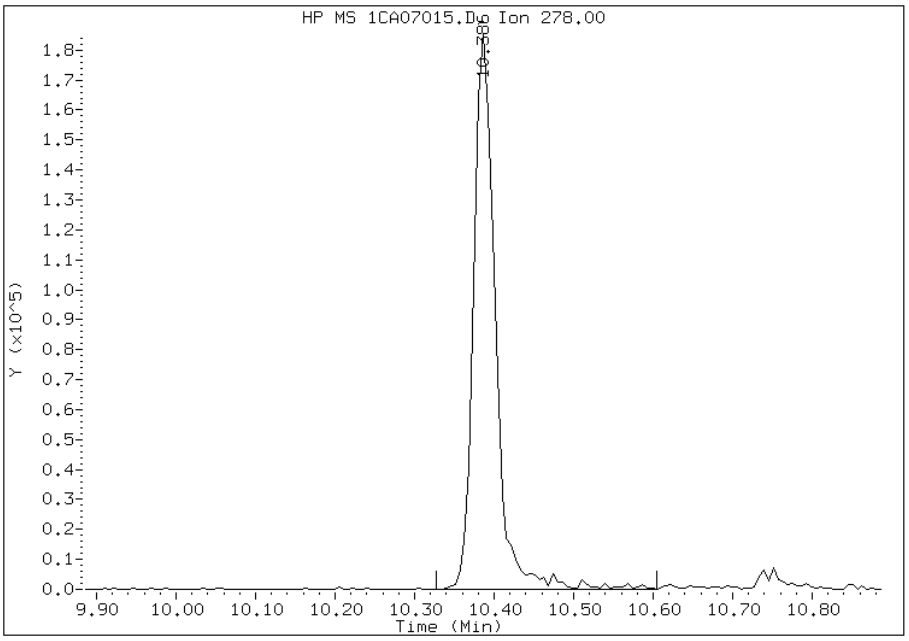
Manual Integration Results

RT: 10.39

Response: 352888

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

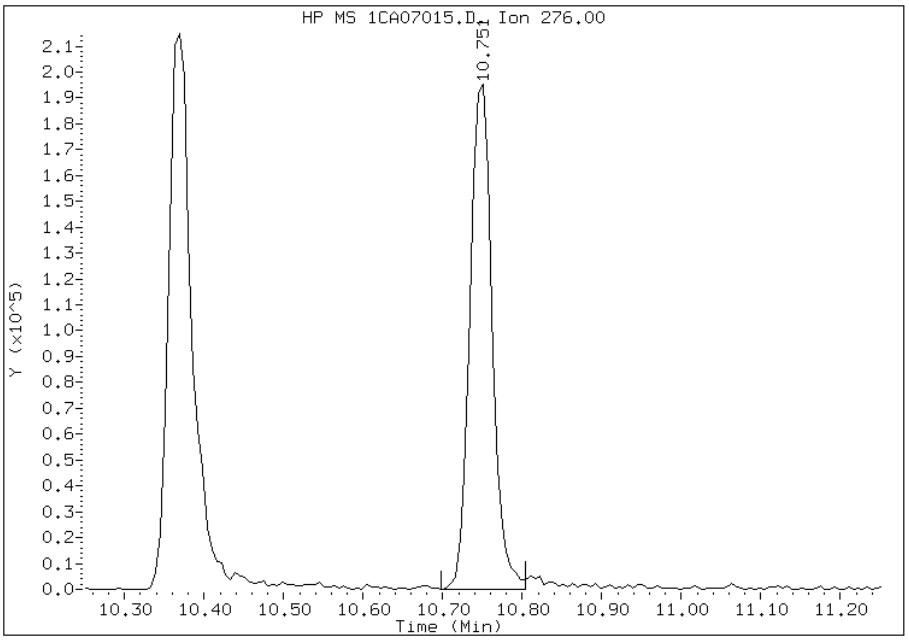
Processing Integration Results

RT: 10.75

Response: 377997

Amount: 5

Conc: 5



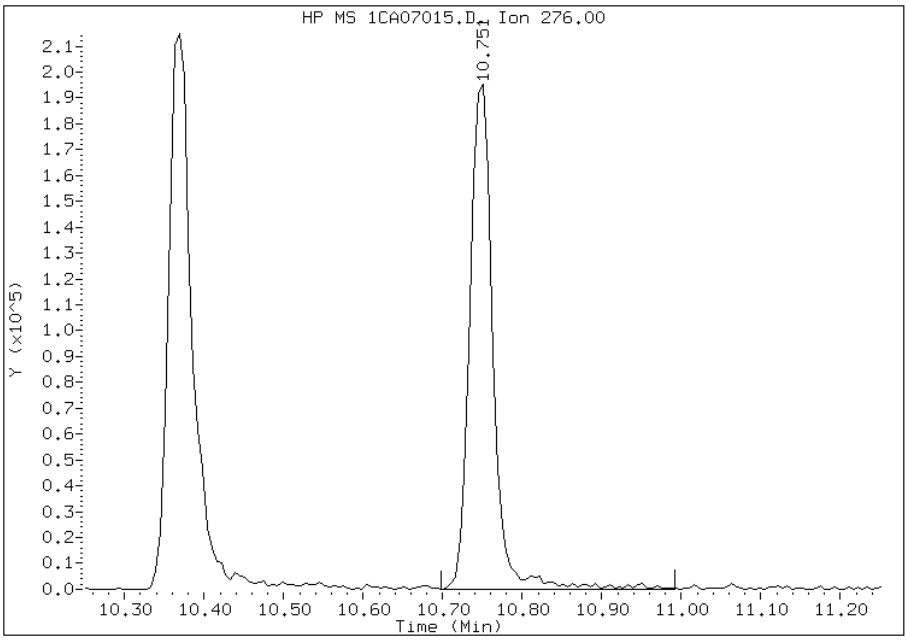
Manual Integration Results

RT: 10.75

Response: 397056

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07016.D
Lab Smp Id: IC-1489897
Inj Date : 07-JAN-2013 16:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:59 Cal File: 1CA07015.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2057907	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1506425	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2920094	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	450297	10.0000	10.5243
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3577892	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3583032	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	562439	10.0000	10.3139
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	360991	10.0000	10.1808
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	337071	10.0000	10.4523
5 Acenaphthylene	152	4.868	4.868	(0.982)	597168	10.0000	9.9641
7 Acenaphthene	154	4.974	4.974	(1.004)	380155	10.0000	10.1136
9 Fluorene	166	5.298	5.298	(1.069)	499898	10.0000	10.3604
11 Phenanthrene	178	5.927	5.927	(1.002)	852208	10.0000	9.7771
12 Anthracene	178	5.962	5.962	(1.008)	820090	10.0000	10.4428
13 Carbazole	167	6.068	6.068	(1.026)	704012	10.0000	10.3206
15 Fluoranthene	202	6.774	6.774	(1.145)	893123	10.0000	10.4863
16 Pyrene	202	6.945	6.945	(0.883)	1032505	10.0000	10.8396
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	948119	10.0000	9.6094
19 Chrysene	228	7.886	7.886	(1.002)	1039885	10.0000	10.2033
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	924867	10.0000	10.5284
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	1029821	10.0000	10.6413
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	891772	10.0000	10.6685
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	744949	10.0000	10.4876(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	785898	10.0000	10.3803(M)
26 Benzo(g,h,i)perylene	276	10.744	10.744	(1.179)	865965	10.0000	10.6183(M)

QC Flag Legend

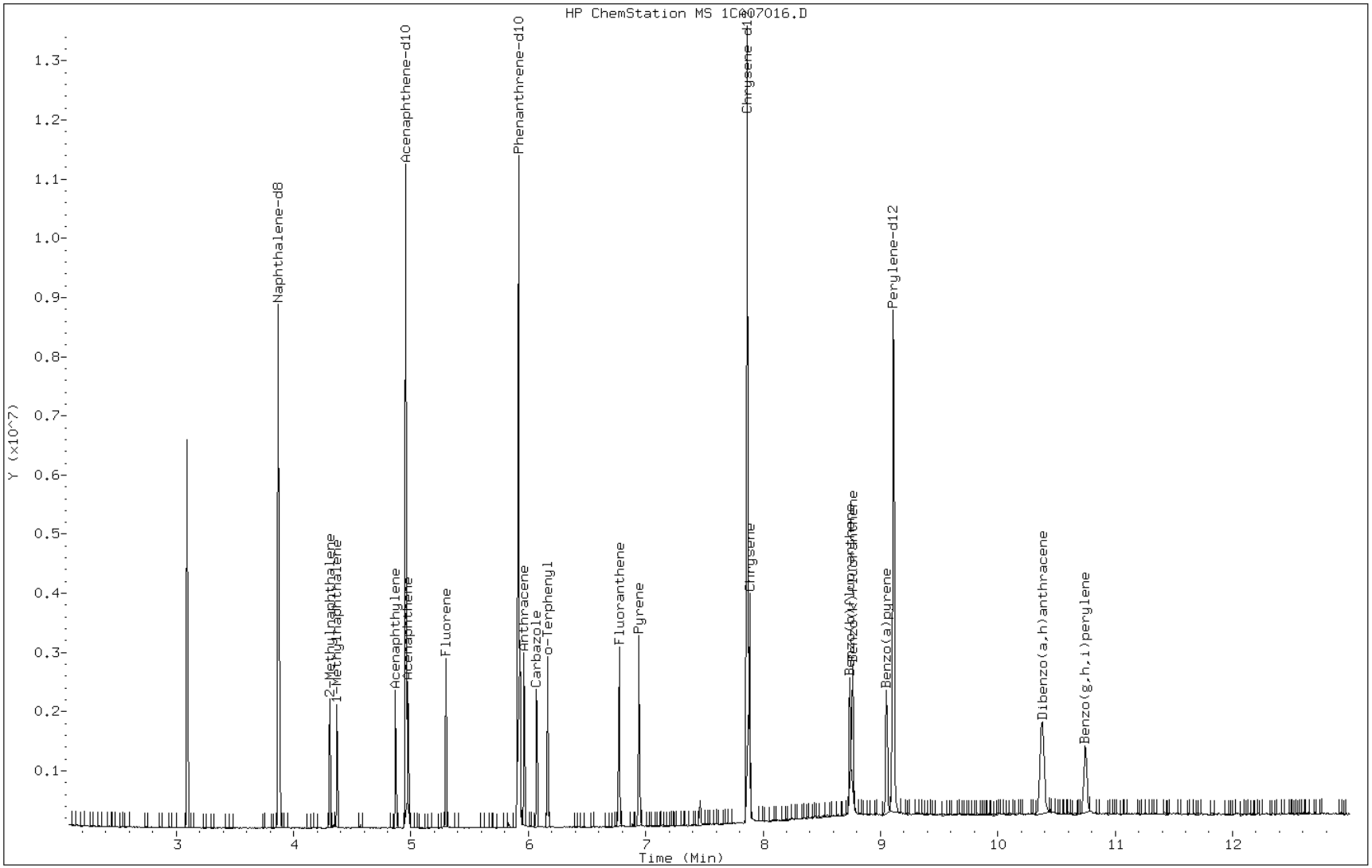
M - Compound response manually integrated.

Data File: 1CA07016.D

Date: 07-JAN-2013 16:18

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

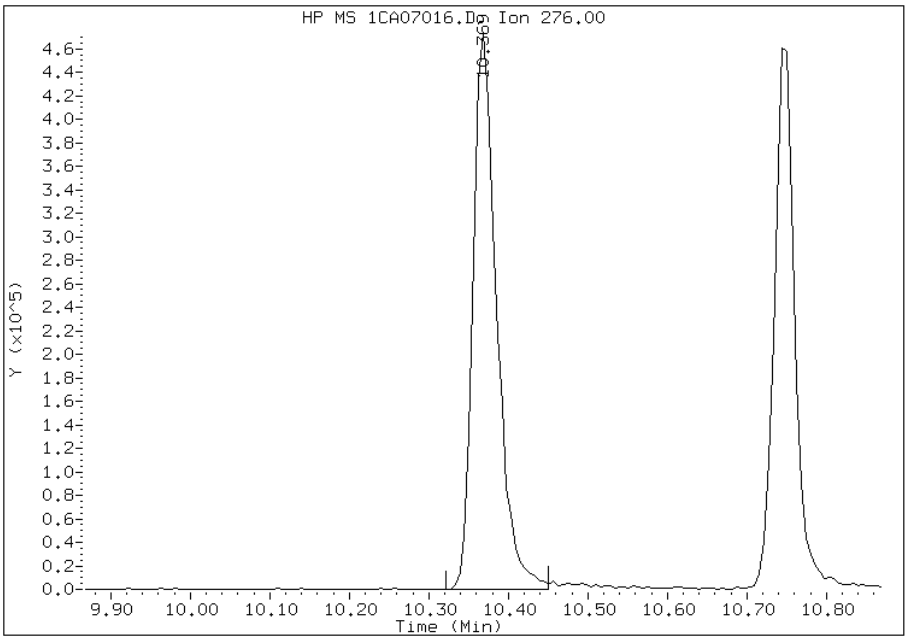
Processing Integration Results

RT: 10.37

Response: 970985

Amount: 12

Conc: 12



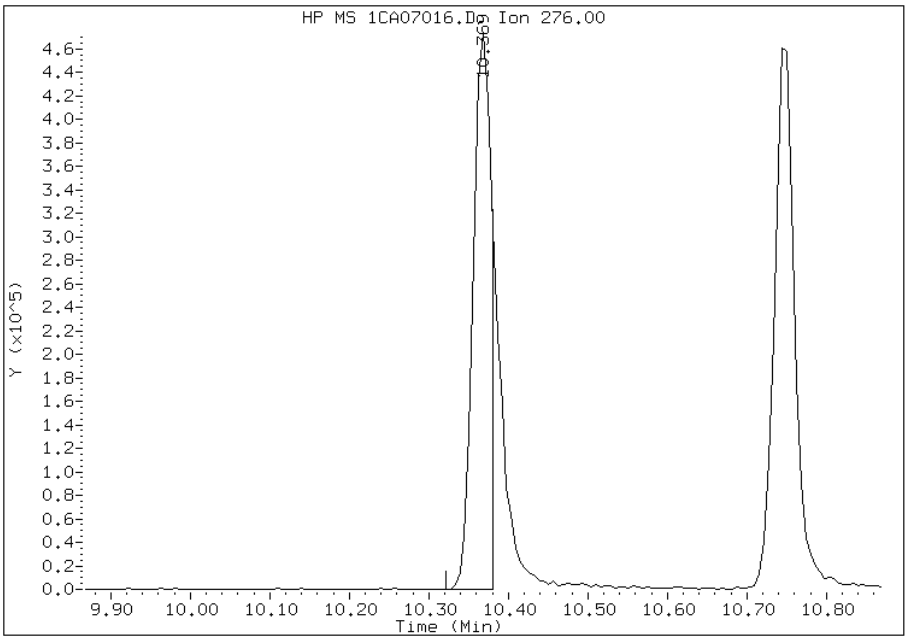
Manual Integration Results

RT: 10.37

Response: 744949

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

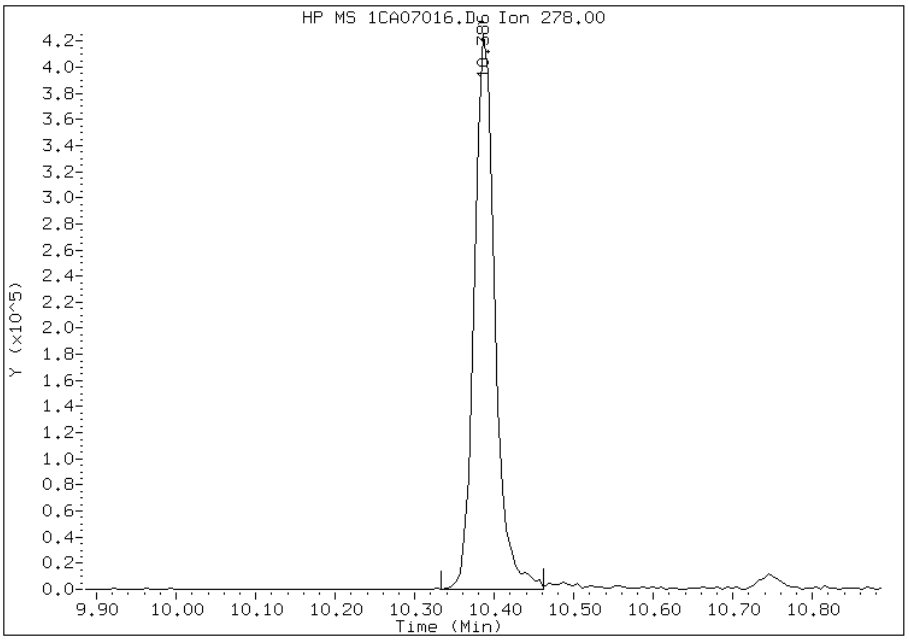
Processing Integration Results

RT: 10.39

Response: 764351

Amount: 10

Conc: 10



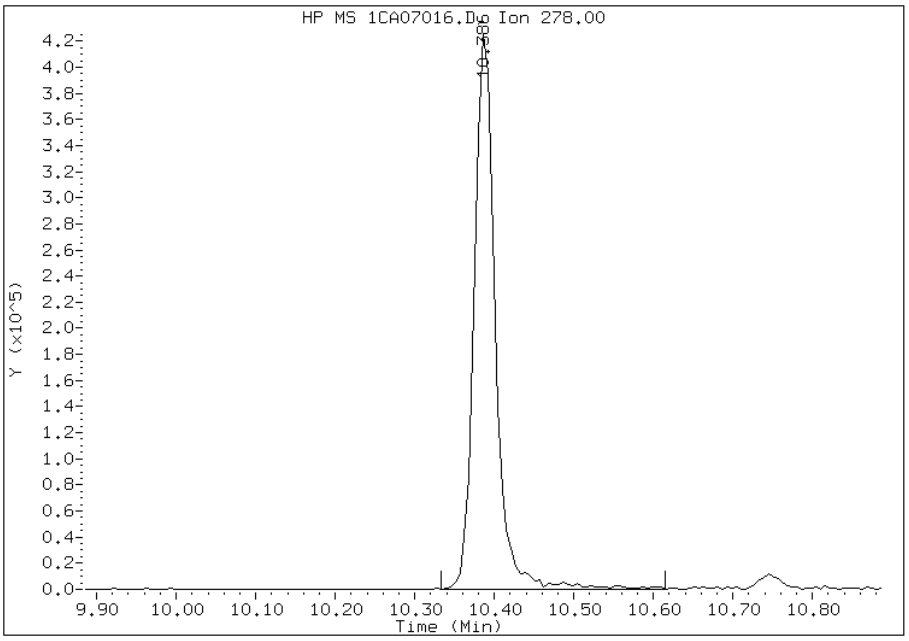
Manual Integration Results

RT: 10.39

Response: 785898

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

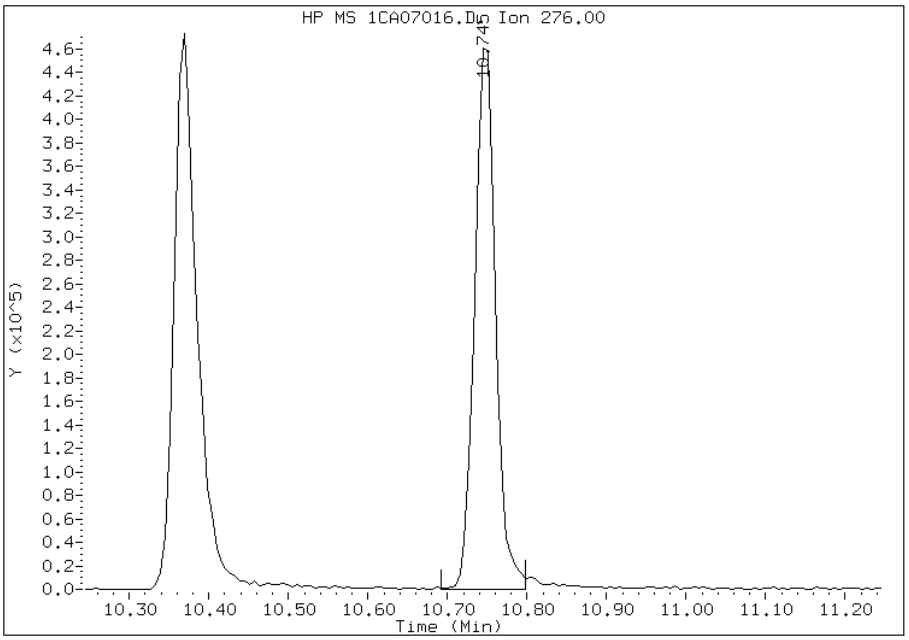
Processing Integration Results

RT: 10.74

Response: 835718

Amount: 10

Conc: 10



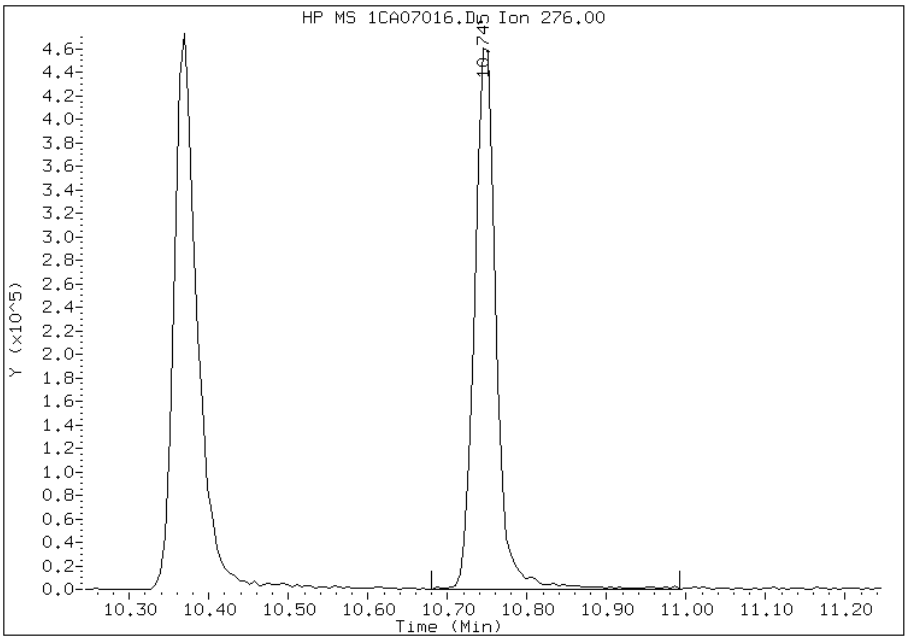
Manual Integration Results

RT: 10.74

Response: 865965

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07017.D
Lab Smp Id: ICIS-1489898
Inj Date : 07-JAN-2013 16:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:18 Cal File: 1CA07016.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2194838	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1653478	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	3141284	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	943151	20.0000	20.4912
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3787207	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3790527	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1132608	20.0000	19.4738
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	738557	20.0000	19.5296
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	714057	20.0000	20.7609
5 Acenaphthylene	152	4.868	4.868	(0.982)	1333542	20.0000	20.2720
7 Acenaphthene	154	4.974	4.974	(1.004)	777625	20.0000	18.8479
9 Fluorene	166	5.298	5.298	(1.069)	1052584	20.0000	19.8748
11 Phenanthrene	178	5.927	5.927	(1.002)	1725035	20.0000	18.3973
12 Anthracene	178	5.962	5.962	(1.008)	1722588	20.0000	20.3906
13 Carbazole	167	6.074	6.074	(1.027)	1516911	20.0000	20.6718
15 Fluoranthene	202	6.774	6.774	(1.145)	1958378	20.0000	21.3746
16 Pyrene	202	6.945	6.945	(0.883)	2128584	20.0000	21.1117
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	1936797	20.0000	18.5450
19 Chrysene	228	7.886	7.886	(1.002)	2079538	20.0000	19.2766
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	1891292	20.0000	20.3514
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	2181246	20.0000	21.3054
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	1856241	20.0000	20.9912
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	1706161	20.0000	22.7051(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	1627151	20.0000	20.3153(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	1745002	20.0000	20.2256(M)

QC Flag Legend

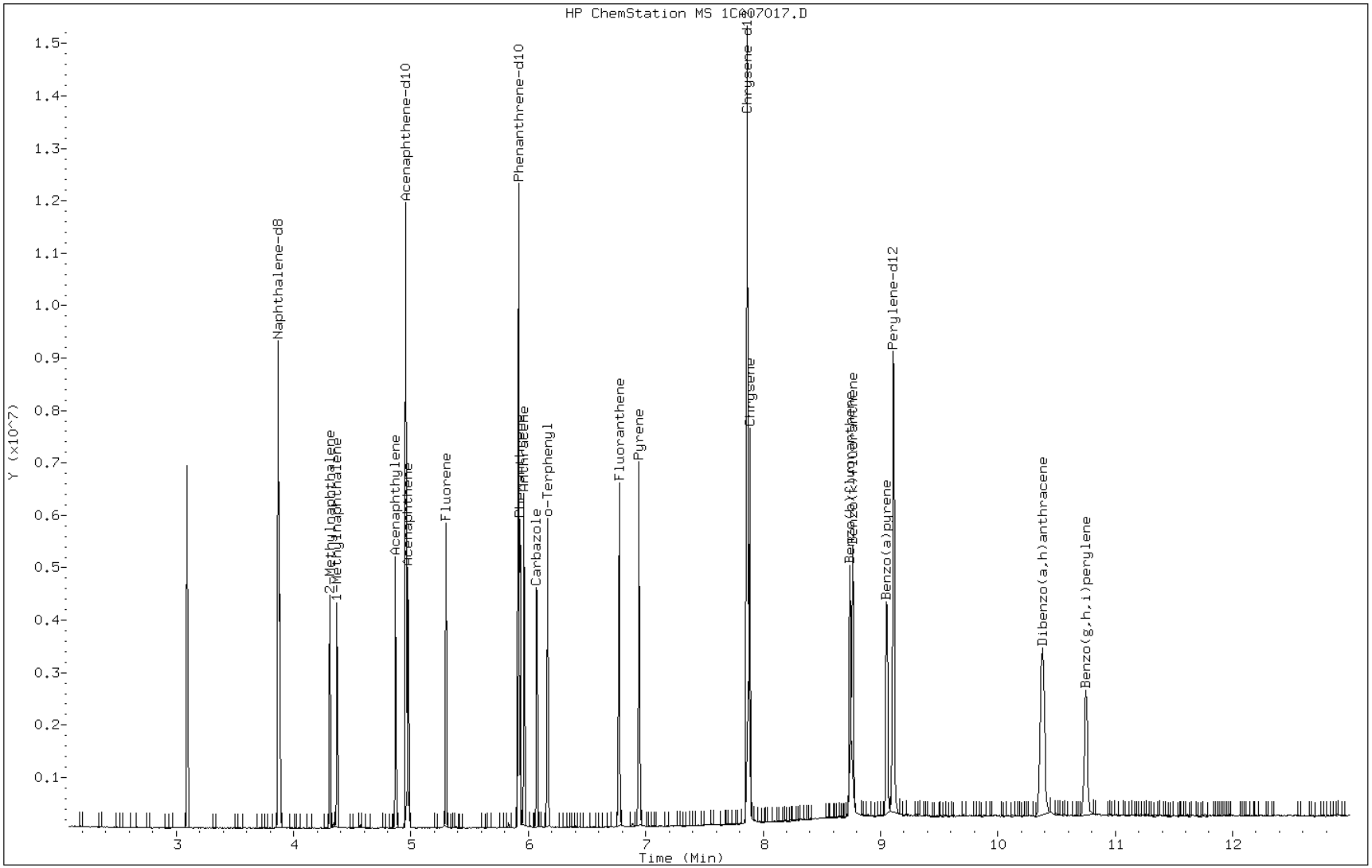
M - Compound response manually integrated.

Data File: 1CA07017.D

Date: 07-JAN-2013 16:36

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

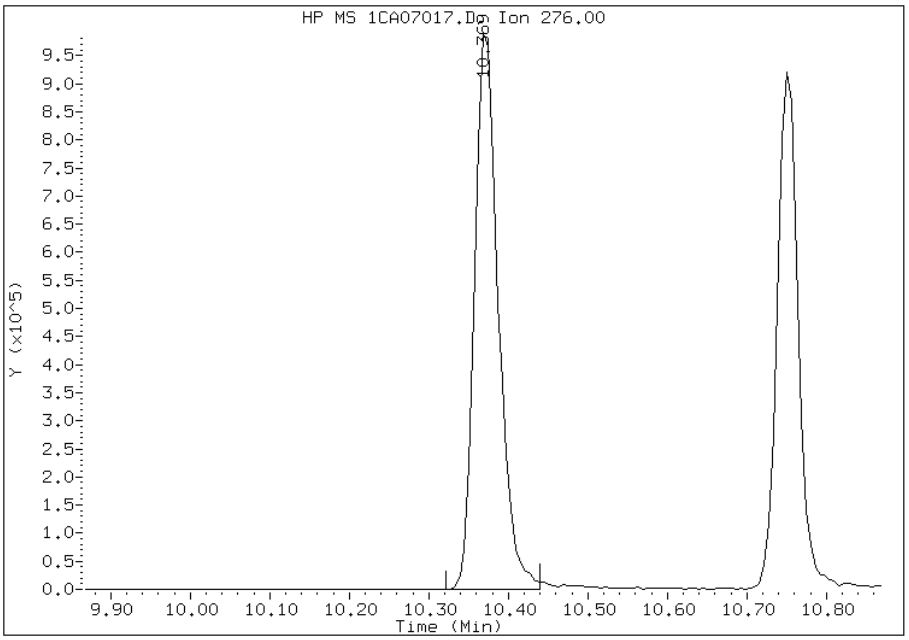
Processing Integration Results

RT: 10.37

Response: 2044337

Amount: 23

Conc: 23



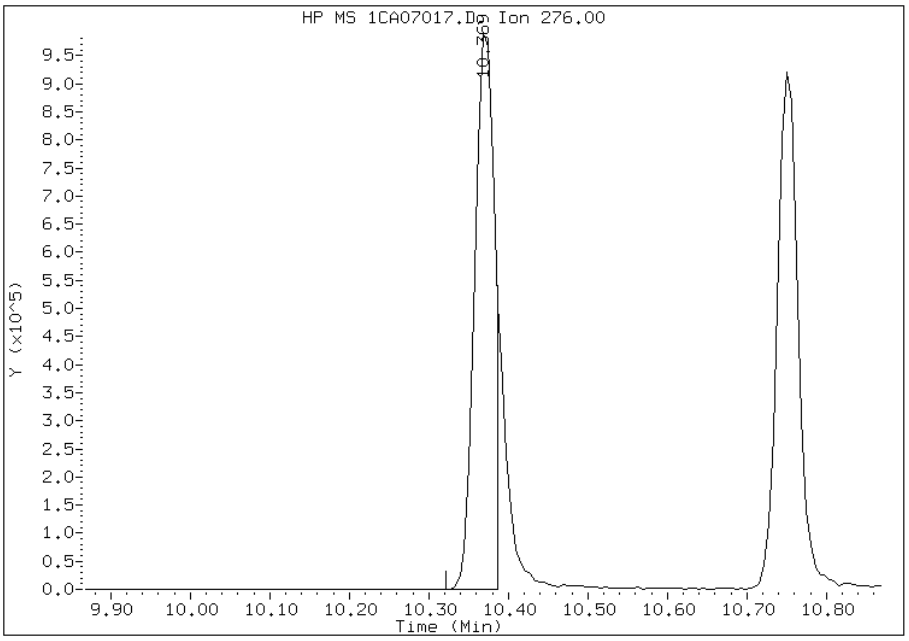
Manual Integration Results

RT: 10.37

Response: 1706161

Amount: 23

Conc: 23



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

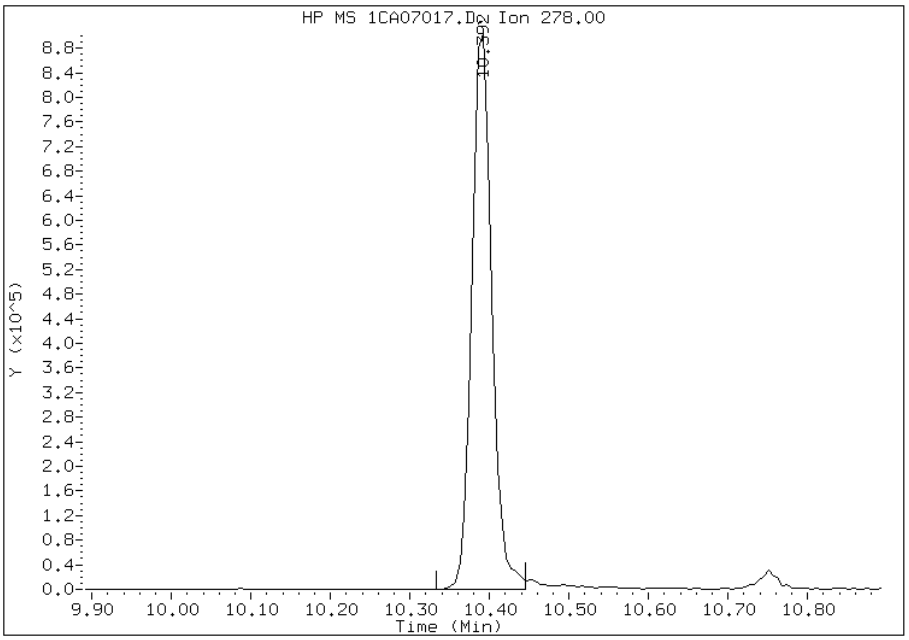
Processing Integration Results

RT: 10.39

Response: 1569221

Amount: 19

Conc: 19



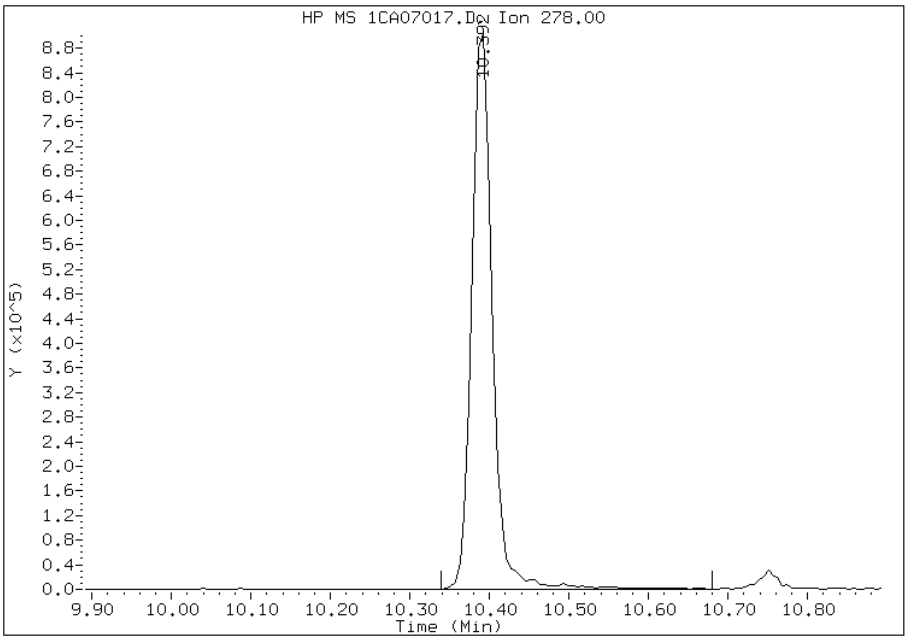
Manual Integration Results

RT: 10.39

Response: 1627151

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

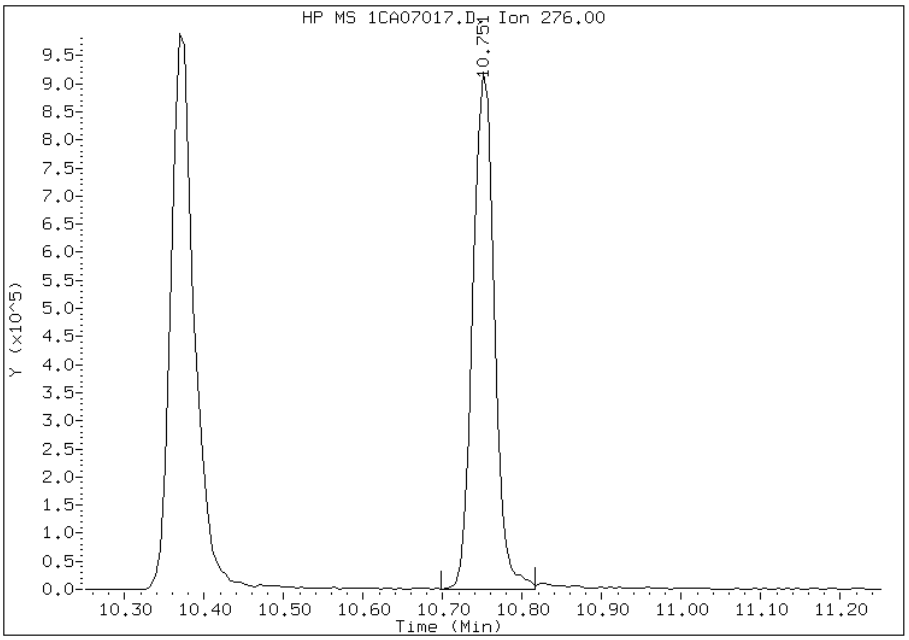
Processing Integration Results

RT: 10.75

Response: 1711397

Amount: 19

Conc: 19



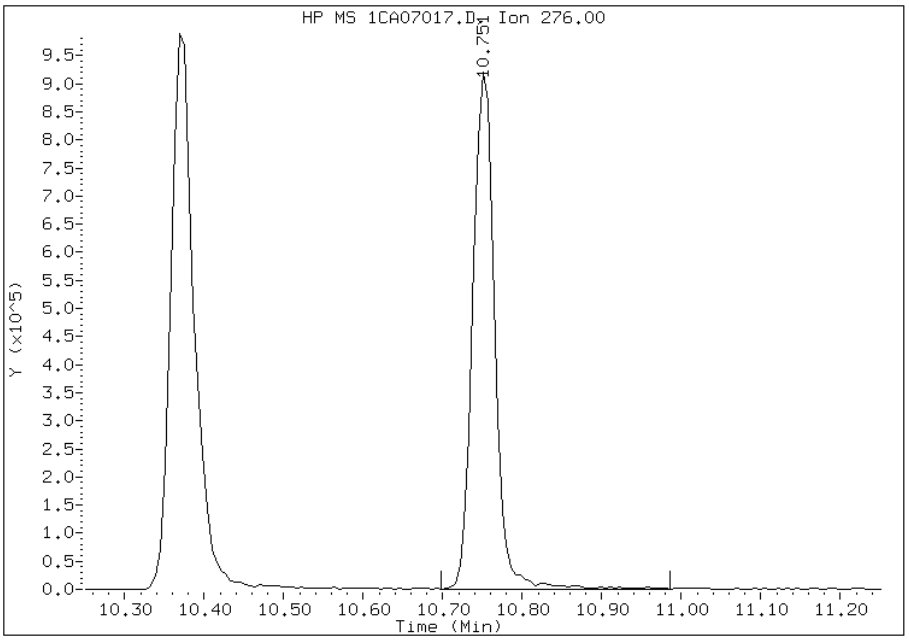
Manual Integration Results

RT: 10.75

Response: 1745002

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07018.D
Lab Smp Id: IC-1489899
Inj Date : 07-JAN-2013 16:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:36 Cal File: 1CA07017.D
Als bottle: 18 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2206384	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1682844	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	3224181	40.0000	
$ 14 o-Terphenyl	230	6.169	6.169	(1.043)	1447125	30.0000	30.6324
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3659777	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3629385	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1744899	30.0000	29.8445
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1125305	30.0000	29.6006
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1099203	30.0000	31.7916
5 Acenaphthylene	152	4.869	4.869	(0.982)	2078096	30.0000	31.0392
7 Acenaphthene	154	4.974	4.974	(1.004)	1212087	30.0000	28.8657
9 Fluorene	166	5.298	5.298	(1.069)	1642686	30.0000	30.4758
11 Phenanthrene	178	5.927	5.927	(1.002)	2725408	30.0000	28.3189
12 Anthracene	178	5.963	5.963	(1.008)	2681981	30.0000	30.9308
13 Carbazole	167	6.074	6.074	(1.027)	2392859	30.0000	31.7704
15 Fluoranthene	202	6.774	6.774	(1.145)	2977438	30.0000	31.6615
16 Pyrene	202	6.945	6.945	(0.883)	3254878	30.0000	33.4065
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	2964525	30.0000	29.3740
19 Chrysene	228	7.886	7.886	(1.002)	3031738	30.0000	29.0818
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	2773683	30.0000	31.1717
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	3267104	30.0000	33.3285
22 Benzo(a)pyrene	252	9.057	9.057	(0.994)	2808161	30.0000	33.1659
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.139)	2564602	30.0000	35.6443(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	2451088	30.0000	31.9610
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	2713188	30.0000	32.8438

QC Flag Legend

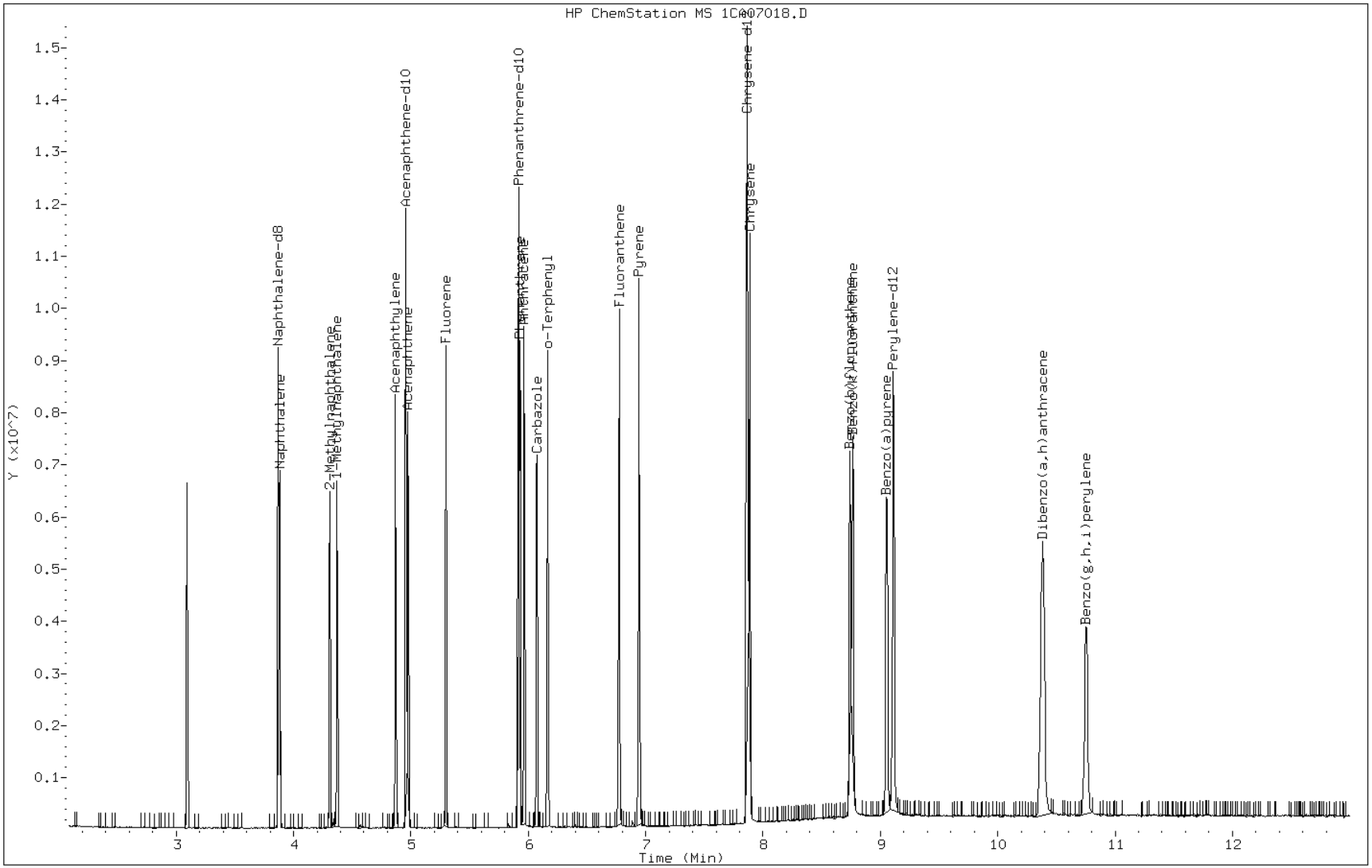
M - Compound response manually integrated.

Data File: 1CA07018.D

Date: 07-JAN-2013 16:54

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489899 Operator: SCC



Manual Integration Report

Data File: 1CA07018.D
Inj. Date and Time: 07-JAN-2013 16:54
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

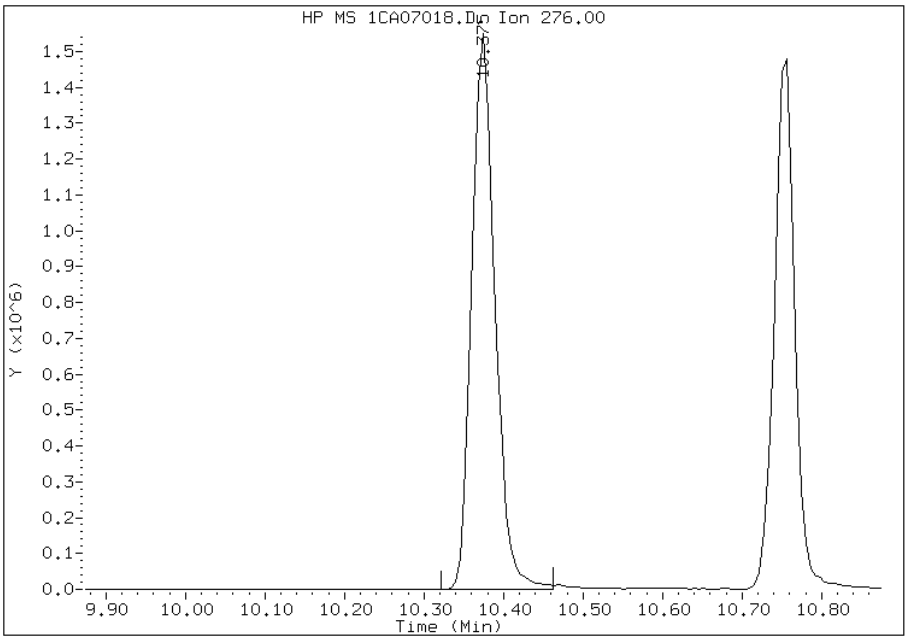
Processing Integration Results

RT: 10.37

Response: 3123860

Amount: 35

Conc: 35



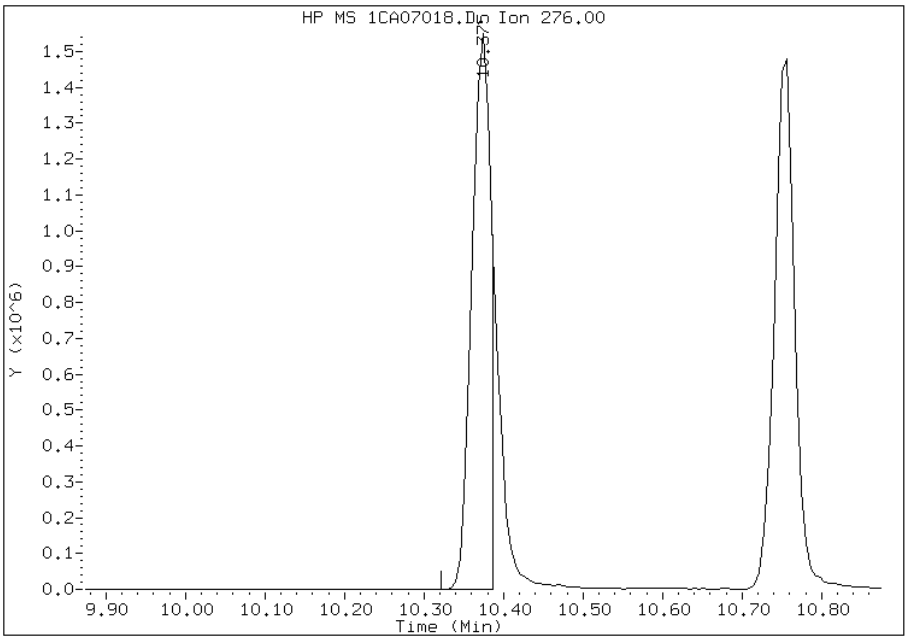
Manual Integration Results

RT: 10.37

Response: 2564602

Amount: 36

Conc: 36



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07019.D
Lab Smp Id: IC-1489900
Inj Date : 07-JAN-2013 17:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:41 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:54 Cal File: 1CA07018.D
Als bottle: 19 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	1965517	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1517262	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2863889	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	2145891	50.0000	51.1382(A)
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3447806	40.0000	
* 23 Perylene-d12	264	9.115	9.115	(1.000)	3425001	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	2683662	50.0000	51.5260(A)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1715115	50.0000	50.6441(A)
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1642265	50.0000	53.3190(A)
5 Acenaphthylene	152	4.869	4.869	(0.982)	3143102	50.0000	52.0699(A)
7 Acenaphthene	154	4.974	4.974	(1.004)	1826987	50.0000	48.2578
9 Fluorene	166	5.298	5.298	(1.069)	2448772	50.0000	50.3886(A)
11 Phenanthrene	178	5.933	5.933	(1.003)	3980821	50.0000	46.5673
12 Anthracene	178	5.963	5.963	(1.008)	4020655	50.0000	52.2031(A)
13 Carbazole	167	6.074	6.074	(1.027)	3531798	50.0000	52.7916(A)
15 Fluoranthene	202	6.774	6.774	(1.145)	4473693	50.0000	53.5573(A)
16 Pyrene	202	6.945	6.945	(0.883)	4789001	50.0000	52.1740(A)
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	4538204	50.0000	47.7313
19 Chrysene	228	7.892	7.892	(1.003)	4663655	50.0000	47.4863
20 Benzo(b)fluoranthene	252	8.745	8.745	(0.959)	4834833	50.0000	57.5782(A)
21 Benzo(k)fluoranthene	252	8.768	8.768	(0.962)	4750961	50.0000	51.3578(A)
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	4467973	50.0000	55.9181(A)
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.138)	3772962	50.0000	55.5680(AM)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	3909634	50.0000	54.0220(A)
26 Benzo(g,h,i)perylene	276	10.762	10.762	(1.181)	4151782	50.0000	53.2574(A)

QC Flag Legend

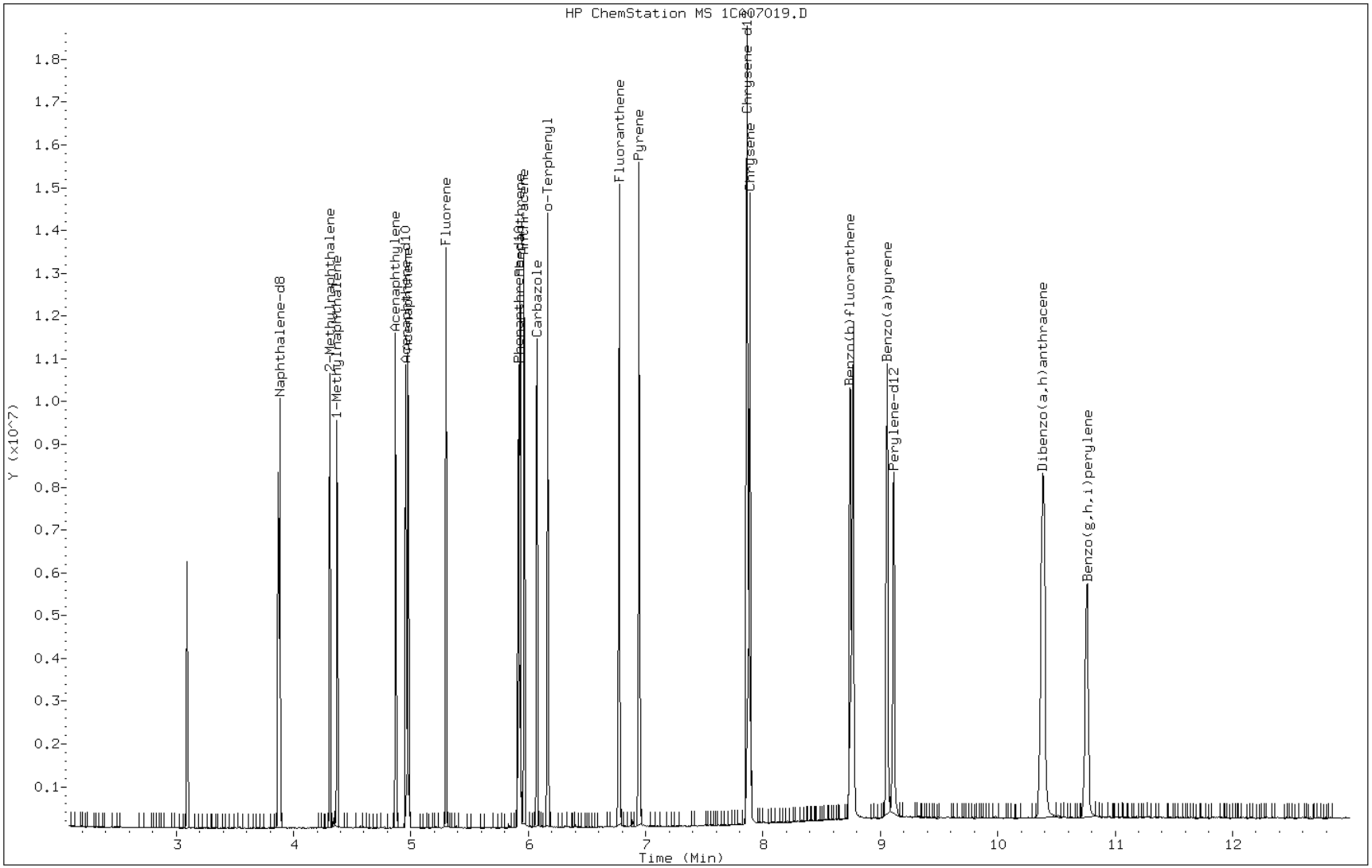
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CA07019.D

Date: 07-JAN-2013 17:13

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489900 Operator: SCC



Manual Integration Report

Data File: 1CA07019.D
Inj. Date and Time: 07-JAN-2013 17:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

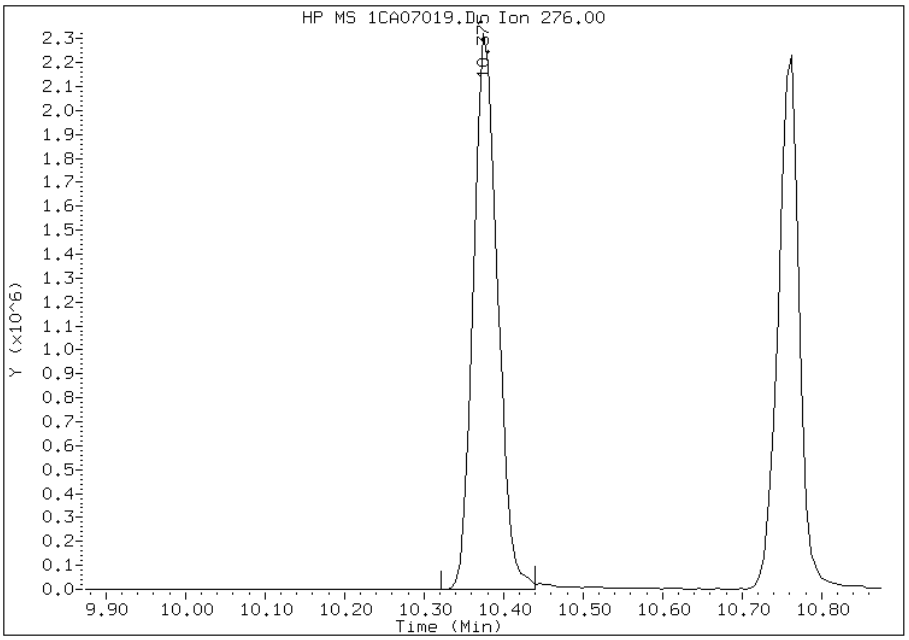
Processing Integration Results

RT: 10.37

Response: 4872897

Amount: 57

Conc: 57



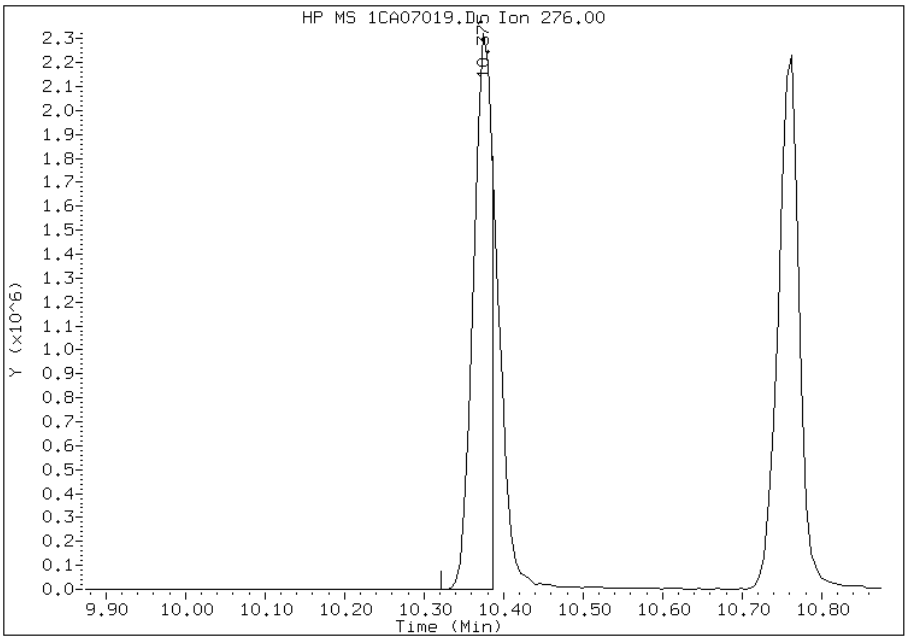
Manual Integration Results

RT: 10.37

Response: 3772962

Amount: 56

Conc: 56



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:40
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Lab Sample ID: ICV 660-133924/10 Calibration Date: 01/30/2013 13:35

Instrument ID: BSMA5973 Calib Start Date: 01/30/2013 11:38

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/30/2013 13:20

Lab File ID: 1AA30010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9709	1.081	0.0000	22300	20000	11.3	35.0
2-Methylnaphthalene	Ave	0.5201	0.6432	0.0000	24700	20000	23.7	35.0
1-Methylnaphthalene	Ave	0.5888	0.6870	0.0000	23300	20000	16.7	35.0
Acenaphthylene	Ave	1.766	1.803	0.0000	20400	20000	2.1	35.0
Acenaphthene	Ave	0.9559	0.9878	0.0000	20700	20000	3.3	35.0
Fluorene	Ave	1.202	1.257	0.0000	20900	20000	4.6	35.0
Phenanthrene	Ave	1.092	1.109	0.0000	20300	20000	1.6	35.0
Anthracene	Ave	1.114	1.151	0.0000	20700	20000	3.4	35.0
Carbazole	Ave	0.9545	1.015	0.0000	21300	20000	6.4	35.0
Fluoranthene	Ave	1.083	1.202	0.0000	22200	20000	11.0	35.0
Pyrene	Ave	1.445	1.459	0.0000	20200	20000	1.0	35.0
Benzo[a]anthracene	LinF	1.313	1.281	0.0000	21500	20000	7.3	35.0
Chrysene	Ave	1.164	1.204	0.0000	20700	20000	3.4	35.0
Benzo[b]fluoranthene	Ave	1.116	1.303	0.0000	23300	20000	16.7	35.0
Benzo[k]fluoranthene	Ave	1.167	1.133	0.0000	19400	20000	-2.9	35.0
Benzo[a]pyrene	Ave	1.060	0.9876	0.0000	18600	20000	-6.8	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.8371	0.9115	0.0000	21800	20000	8.9	35.0
Dibenz(a,h)anthracene	Ave	0.8369	0.9680	0.0000	23100	20000	15.7	35.0
Benzo[g,h,i]perylene	Ave	0.8673	0.9214	0.0000	21200	20000	6.2	35.0
o-Terphenyl	Ave	0.5812	0.6137	0.0000	21100	20000	5.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30010.D
Lab Smp Id: ICV-1448440
Inj Date : 30-JAN-2013 13:35
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:34 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.507	2.509	(1.000)	1317903	40.0000	
* 6 Acenaphthene-d10	164	3.543	3.540	(1.000)	820848	40.0000	
* 10 Phenanthrene-d10	188	4.499	4.501	(1.000)	1272419	40.0000	
$ 14 o-Terphenyl	230	4.777	4.779	(1.062)	390413	21.1160	21.1160
* 18 Chrysene-d12	240	6.540	6.537	(1.000)	1032149	40.0000	
* 23 Perylene-d12	264	7.635	7.637	(1.000)	982321	40.0000	
2 Naphthalene	128	2.517	2.519	(1.004)	712111	22.2614	22.2614
3 2-Methylnaphthalene	141	2.923	2.925	(1.166)	423845	24.7328	24.7328
4 1-Methylnaphthalene	142	2.982	2.979	(1.190)	452724	23.3376	23.3375
5 Acenaphthylene	152	3.457	3.454	(0.976)	739875	20.4134	20.4133
7 Acenaphthene	154	3.559	3.556	(1.005)	405435	20.6673	20.6673
9 Fluorene	166	3.874	3.871	(1.093)	515972	20.9176	20.9175
11 Phenanthrene	178	4.515	4.517	(1.004)	705650	20.3109	20.3108
12 Anthracene	178	4.547	4.549	(1.011)	732417	20.6769	20.6768
13 Carbazole	167	4.702	4.704	(1.045)	645980	21.2750	21.2749(M)
15 Fluoranthene	202	5.391	5.388	(1.198)	764893	22.2062	22.2061
16 Pyrene	202	5.557	5.559	(0.850)	753079	20.2028	20.2027

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.529	6.531	(0.998)	661139	21.4526	21.4526
19 Chrysene	228	6.556	6.558	(1.002)	621167	20.6783	20.6783
20 Benzo(b)fluoranthene	252	7.357	7.359	(0.964)	639815	23.3366	23.3365
21 Benzo(k)fluoranthene	252	7.379	7.381	(0.966)	556542	19.4153	19.4152
22 Benzo(a)pyrene	252	7.587	7.594	(0.994)	485058	18.6307	18.6307
24 Indeno(1,2,3-cd)pyrene	276	8.420	8.428	(1.103)	447706	21.7774	21.7773(M)
25 Dibenzo(a,h)anthracene	278	8.436	8.444	(1.105)	475426	23.1325	23.1324
26 Benzo(g,h,i)perylene	276	8.650	8.657	(1.133)	452542	21.2477	21.2477

QC Flag Legend

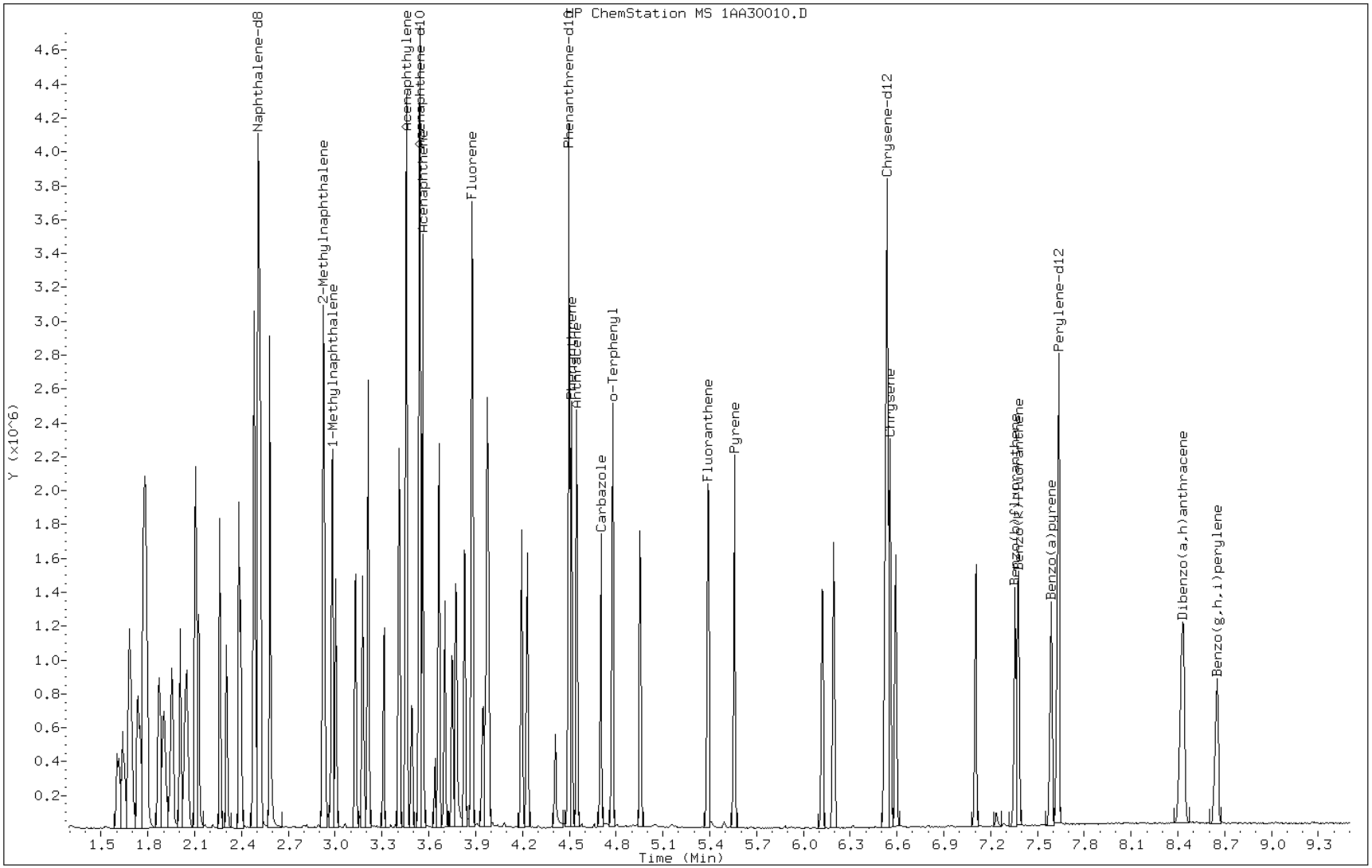
M - Compound response manually integrated.

Data File: 1AA30010.D

Date: 30-JAN-2013 13:35

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1AA30010.D
Inj. Date and Time: 30-JAN-2013 13:35
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 01/30/2013

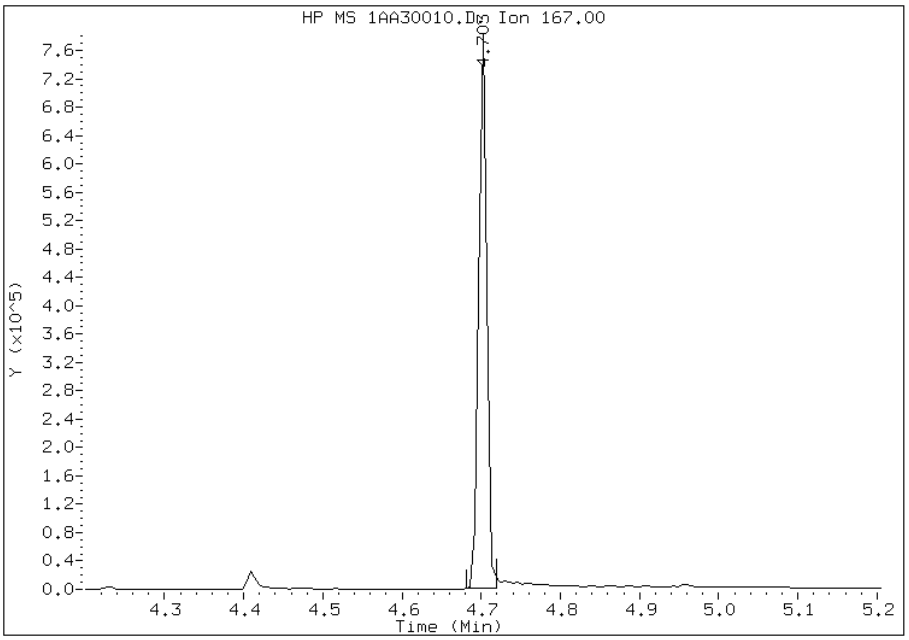
Processing Integration Results

RT: 4.70

Response: 529890

Amount: 17

Conc: 17



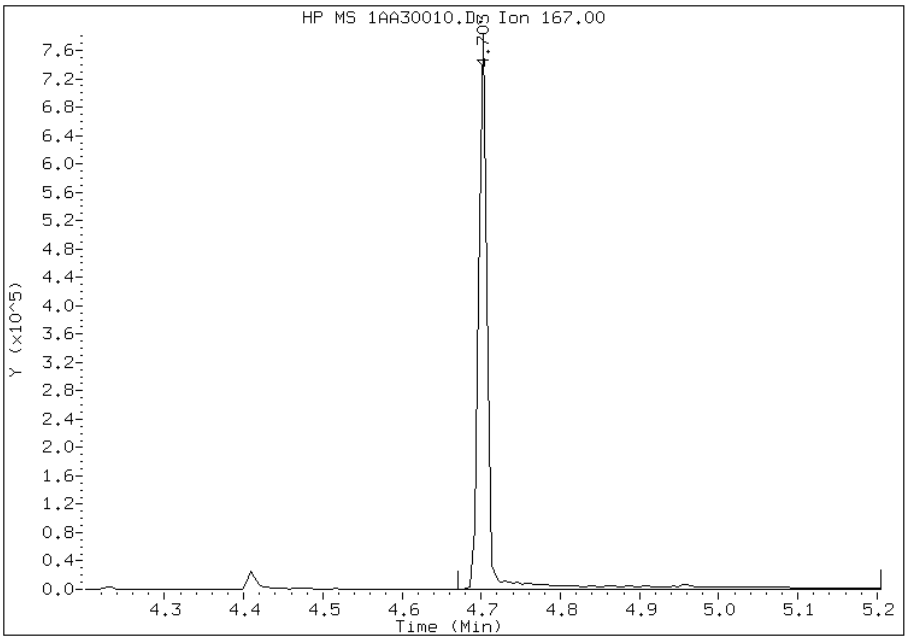
Manual Integration Results

RT: 4.70

Response: 645980

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AA30010.D
Inj. Date and Time: 30-JAN-2013 13:35
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

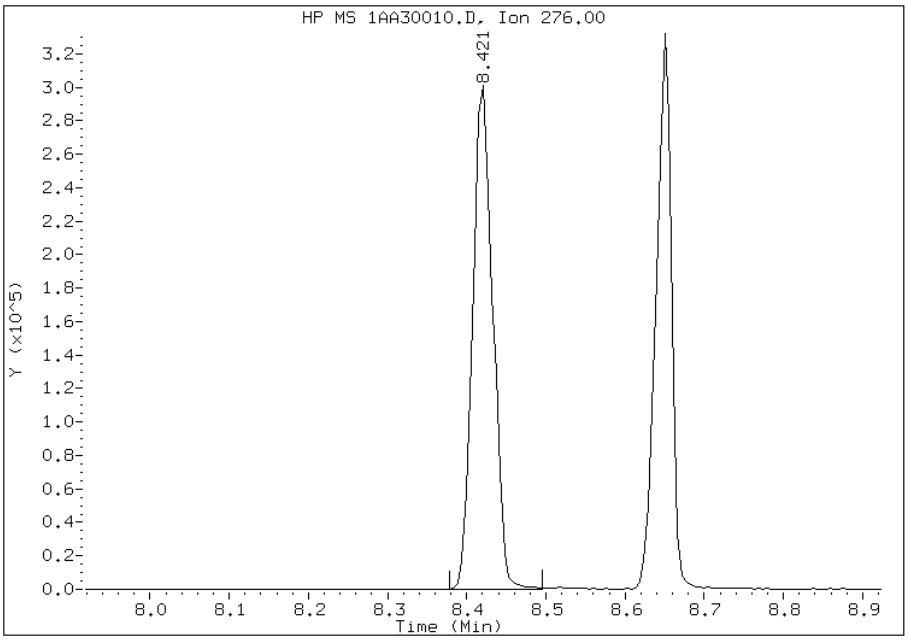
Processing Integration Results

RT: 8.42

Response: 525230

Amount: 26

Conc: 26



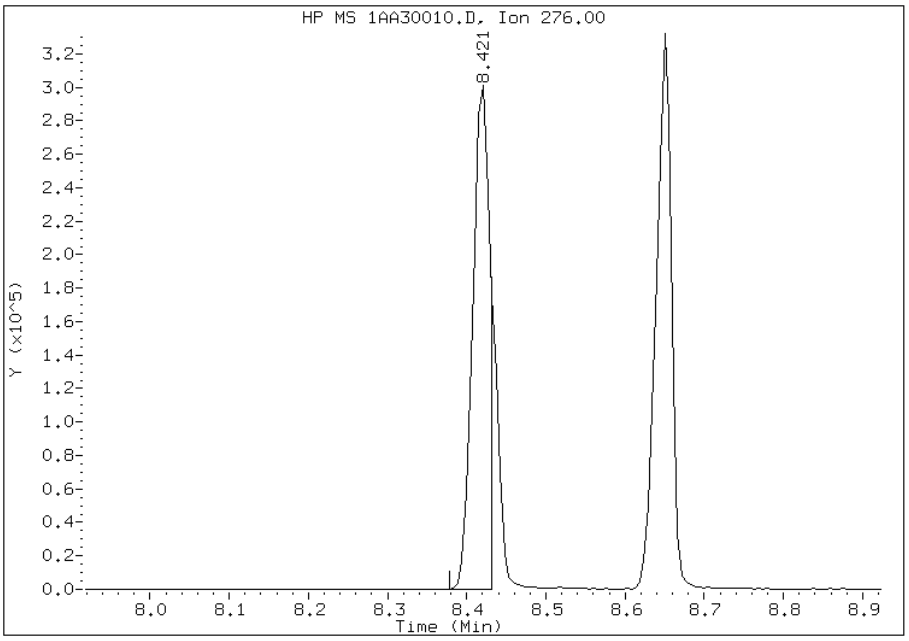
Manual Integration Results

RT: 8.42

Response: 447706

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:47
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Lab Sample ID: CCVIS 660-134532/8 Calibration Date: 02/15/2013 15:21

Instrument ID: BSMA5973 Calib Start Date: 01/30/2013 11:38

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/30/2013 13:20

Lab File ID: 1AB15006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9709	0.9256	0.0000	19100	20000	-4.7	20.0
2-Methylnaphthalene	Ave	0.5201	0.4843	0.0000	18600	20000	-6.9	20.0
1-Methylnaphthalene	Ave	0.5888	0.5342	0.0000	18100	20000	-9.3	20.0
Acenaphthylene	Ave	1.766	1.569	0.0000	17800	20000	-11.2	20.0
Acenaphthene	Ave	0.9559	0.8712	0.0000	18200	20000	-8.9	20.0
Fluorene	Ave	1.202	1.114	0.0000	18500	20000	-7.3	20.0
Phenanthrene	Ave	1.092	1.004	0.0000	18400	20000	-8.1	20.0
Anthracene	Ave	1.114	1.000	0.0000	18000	20000	-10.2	20.0
Carbazole	Ave	0.9545	0.8604	0.0000	18000	20000	-9.9	20.0
Fluoranthene	Ave	1.083	1.011	0.0000	18700	20000	-6.6	20.0
Pyrene	Ave	1.445	1.277	0.0000	17700	20000	-11.6	20.0
Benzo[a]anthracene	LinF	1.313	1.103	0.0000	18500	20000	-7.6	20.0
Chrysene	Ave	1.164	1.078	0.0000	18500	20000	-7.4	20.0
Benzo[b]fluoranthene	Ave	1.116	0.9929	0.0000	17800	20000	-11.1	20.0
Benzo[k]fluoranthene	Ave	1.167	1.089	0.0000	18700	20000	-6.7	20.0
Benzo[a]pyrene	Ave	1.060	0.9707	0.0000	18300	20000	-8.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8371	0.9032	0.0000	21600	20000	7.9	20.0
Dibenz(a,h)anthracene	Ave	0.8369	0.7994	0.0000	19100	20000	-4.5	20.0
Benzo[g,h,i]perylene	Ave	0.8673	0.7939	0.0000	18300	20000	-8.5	20.0
o-Terphenyl	Ave	0.5812	0.5665	0.0000	19500	20000	-2.5	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15006.D
Lab Smp Id: CCVIS-1489898
Inj Date : 15-FEB-2013 15:21
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.415	2.415	(1.000)	1368017	40.0000	(H)
* 6 Acenaphthene-d10	164	3.441	3.441	(1.000)	840321	40.0000	(H)
* 10 Phenanthrene-d10	188	4.386	4.386	(1.000)	1266854	40.0000	(H)
$ 14 o-Terphenyl	230	4.664	4.664	(1.063)	358819	20.0000	19.4924(H)
* 18 Chrysene-d12	240	6.411	6.411	(1.000)	1066498	40.0000	(H)
* 23 Perylene-d12	264	7.501	7.501	(1.000)	1048533	40.0000	(H)
2 Naphthalene	128	2.426	2.426	(1.004)	633095	20.0000	19.0662(H)
3 2-Methylnaphthalene	141	2.832	2.832	(1.173)	331256	20.0000	18.6218(H)
4 1-Methylnaphthalene	142	2.885	2.885	(1.195)	365397	20.0000	18.1459(H)
5 Acenaphthylene	152	3.355	3.355	(0.975)	659230	20.0000	17.7668(H)
7 Acenaphthene	154	3.462	3.462	(1.006)	366021	20.0000	18.2258(H)
9 Fluorene	166	3.772	3.772	(1.096)	468236	20.0000	18.5424(H)
11 Phenanthrene	178	4.402	4.402	(1.004)	635753	20.0000	18.3794(H)
12 Anthracene	178	4.434	4.434	(1.011)	633384	20.0000	17.9596(H)
13 Carbazole	167	4.589	4.589	(1.046)	545009	20.0000	18.0284(H)
15 Fluoranthene	202	5.262	5.262	(1.200)	640457	20.0000	18.6752(H)
16 Pyrene	202	5.433	5.433	(0.848)	680876	20.0000	17.6774(H)
17 Benzo(a)anthracene	228	6.395	6.395	(0.997)	588343	20.0000	18.4756(H)
19 Chrysene	228	6.427	6.427	(1.002)	574660	20.0000	18.5139(H)
20 Benzo(b)fluoranthene	252	7.217	7.217	(0.962)	520555	20.0000	17.7877(H)
21 Benzo(k)fluoranthene	252	7.239	7.239	(0.965)	571010	20.0000	18.6620(H)
22 Benzo(a)pyrene	252	7.452	7.452	(0.994)	508919	20.0000	18.3128(H)
24 Indeno(1,2,3-cd)pyrene	276	8.238	8.238	(1.098)	473511	20.0000	21.5781(MH)
25 Dibenzo(a,h)anthracene	278	8.254	8.254	(1.100)	419118	20.0000	19.1049(H)
26 Benzo(g,h,i)perylene	276	8.446	8.446	(1.126)	416199	20.0000	18.3073(H)

QC Flag Legend

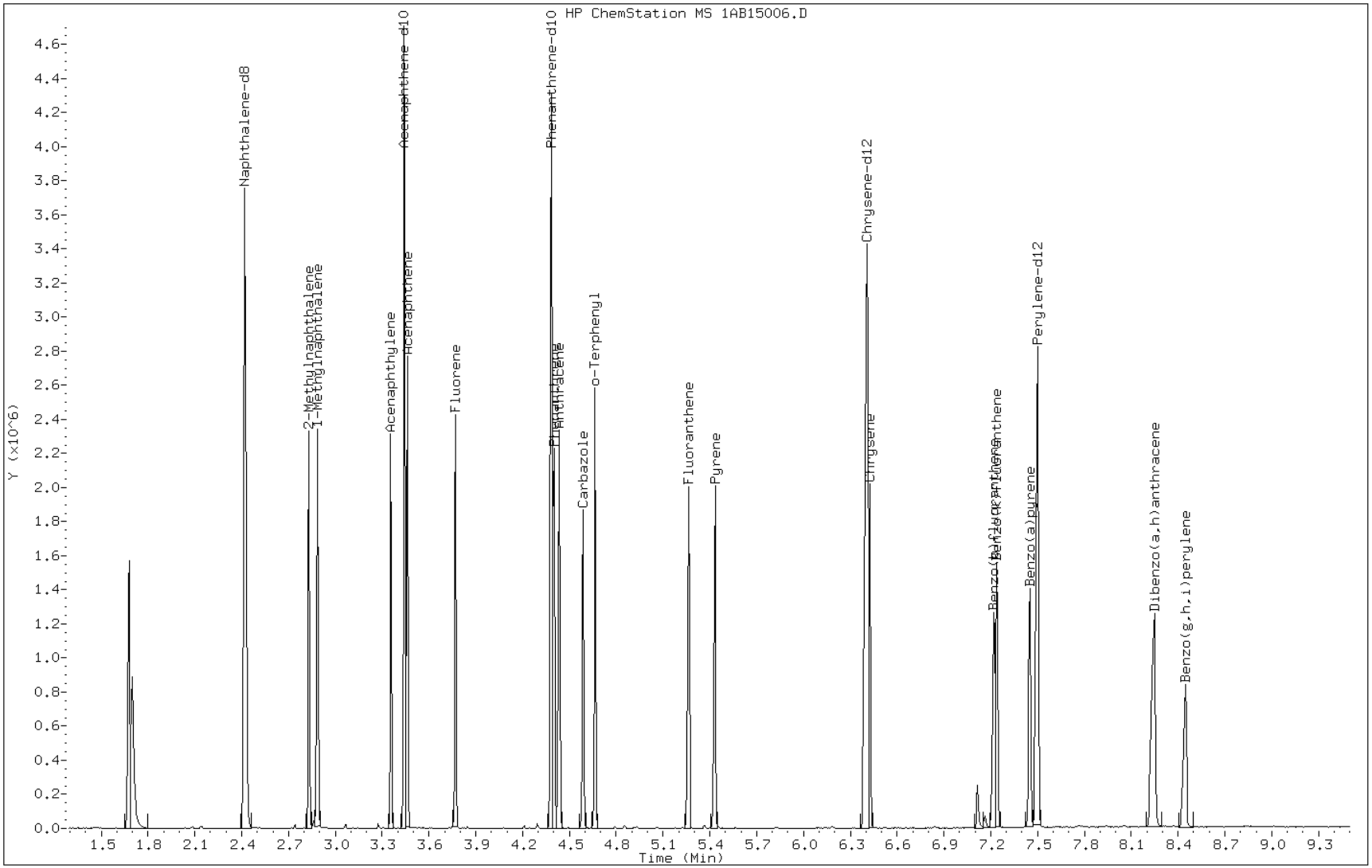
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB15006.D

Date: 15-FEB-2013 15:21

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1AB15006.D
Inj. Date and Time: 15-FEB-2013 15:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

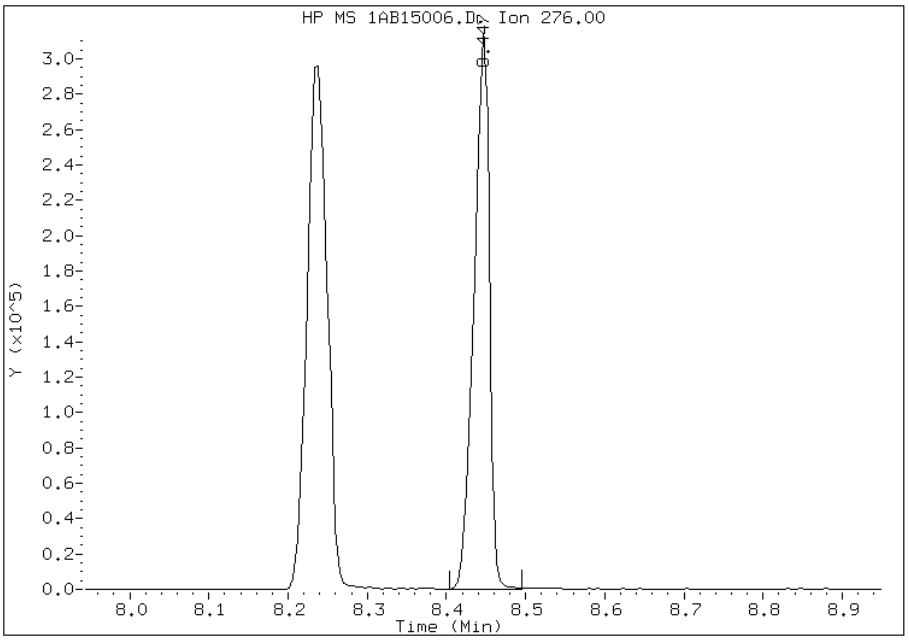
Processing Integration Results

RT: 8.45

Response: 416199

Amount: 19

Conc: 19



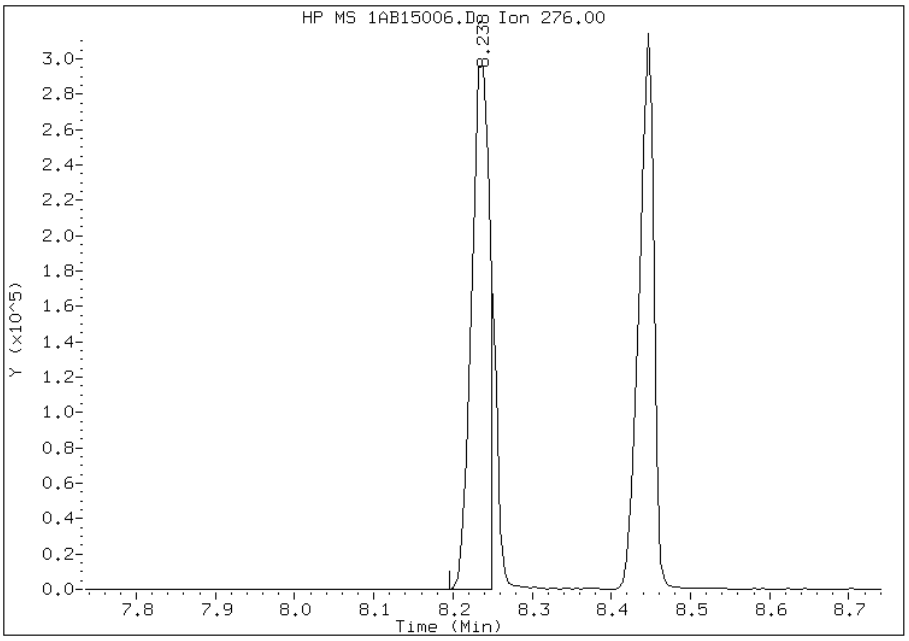
Manual Integration Results

RT: 8.24

Response: 473511

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 15:35
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Lab Sample ID: ICV 660-133227/10 Calibration Date: 01/07/2013 17:31

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CA07020.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.007	0.0000	19000	20000	-5.0	35.0
2-Methylnaphthalene	Ave	0.6892	0.6589	0.0000	19100	20000	-4.4	35.0
1-Methylnaphthalene	Ave	0.6268	0.6593	0.0000	21000	20000	5.2	35.0
Acenaphthylene	Ave	1.591	1.636	0.0000	20600	20000	2.8	35.0
Acenaphthene	Ave	0.998	0.995	0.0000	19900	20000	-0.3	35.0
Fluorene	Ave	1.281	1.256	0.0000	19600	20000	-1.9	35.0
Phenanthrene	Ave	1.194	1.049	0.0000	17600	20000	-12.2	35.0
Anthracene	Ave	1.076	1.057	0.0000	19700	20000	-1.7	35.0
Carbazole	Ave	0.9344	0.9714	0.0000	20800	20000	4.0	35.0
Fluoranthene	Ave	1.167	1.235	0.0000	21200	20000	5.9	35.0
Pyrene	Ave	1.065	1.062	0.0000	19900	20000	-0.3	35.0
Benzo[a]anthracene	Ave	1.103	1.074	0.0000	19500	20000	-2.6	35.0
Chrysene	Ave	1.139	1.025	0.0000	18000	20000	-10.0	35.0
Benzo[b]fluoranthene	Ave	0.9807	0.9511	0.0000	19400	20000	-3.0	35.0
Benzo[k]fluoranthene	Ave	1.080	1.106	0.0000	20500	20000	2.4	35.0
Benzo[a]pyrene	Ave	0.9332	0.8638	0.0000	18500	20000	-7.4	35.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.8346	0.0000	18600	20000	-6.9	35.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8921	0.0000	21100	20000	5.5	35.0
Benzo[g,h,i]perylene	Ave	0.9104	0.8897	0.0000	19500	20000	-2.3	35.0
o-Terphenyl	Ave	0.5861	0.5611	0.0000	19100	20000	-4.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07020.D
Lab Smp Id: ICV-1448440
Inj Date : 07-JAN-2013 17:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:43 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 20 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2417094	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1838803	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.916	(1.000)	3573060	40.0000	
$ 14 o-Terphenyl	230	6.168	6.169	(1.043)	1002344	19.1457	19.1456
* 18 Chrysene-d12	240	7.868	7.869	(1.000)	4267463	40.0000	
* 23 Perylene-d12	264	9.115	9.116	(1.000)	4342564	40.0000	
2 Naphthalene	128	3.880	3.881	(1.003)	1216880	18.9990	18.9989
3 2-Methylnaphthalene	142	4.310	4.309	(1.114)	796260	19.1194	19.1193
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	796834	21.0373	21.0373
5 Acenaphthylene	152	4.868	4.869	(0.982)	1503892	20.5575	20.5575
7 Acenaphthene	154	4.980	4.975	(1.005)	914978	19.9420	19.9419
9 Fluorene	166	5.298	5.298	(1.069)	1155136	19.6129	19.6129
11 Phenanthrene	178	5.933	5.934	(1.003)	1873312	17.5645	17.5644
12 Anthracene	178	5.963	5.963	(1.008)	1888199	19.6500	19.6500
13 Carbazole	167	6.074	6.075	(1.027)	1735453	20.7921	20.7920
15 Fluoranthene	202	6.774	6.775	(1.145)	2206550	21.1730	21.1730
16 Pyrene	202	6.945	6.945	(0.883)	2266055	19.9459	19.9458

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.862	7.863	(0.999)	2292513	19.4807	19.4807
19 Chrysene	228	7.886	7.892	(1.002)	2187685	17.9970	17.9969
20 Benzo(b)fluoranthene	252	8.739	8.745	(0.959)	2065017	19.3961	19.3961
21 Benzo(k)fluoranthene	252	8.762	8.769	(0.961)	2402437	20.4829	20.4829
22 Benzo(a)pyrene	252	9.051	9.057	(0.993)	1875598	18.5138	18.5138
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.375	(1.137)	1812061	18.6227	18.6226(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	1936939	21.1089	21.1088
26 Benzo(g,h,i)perylene	276	10.750	10.763	(1.179)	1931721	19.5436	19.5436

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CA07020.D

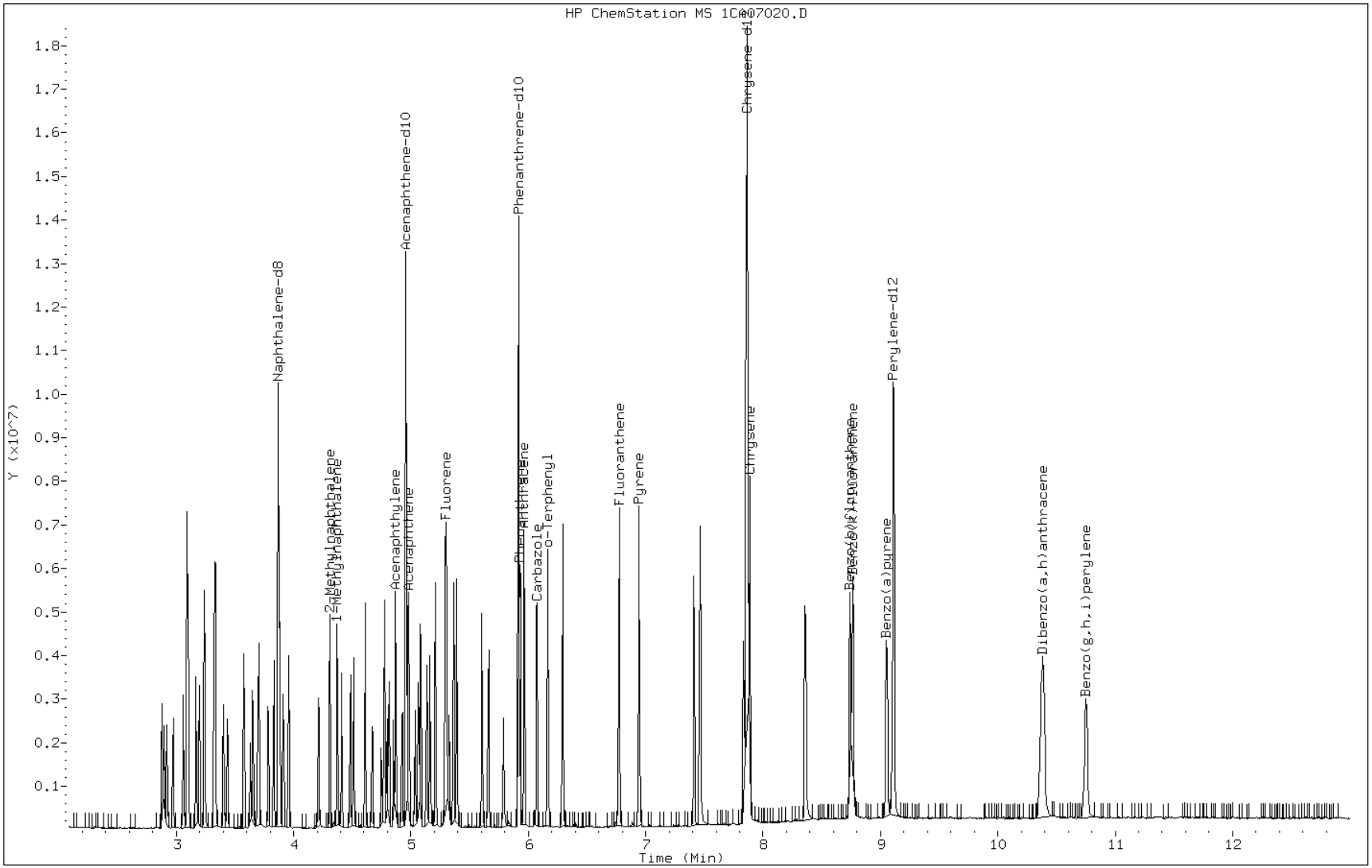
Date: 07-JAN-2013 17:31

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CA07020.D
Inj. Date and Time: 07-JAN-2013 17:31
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

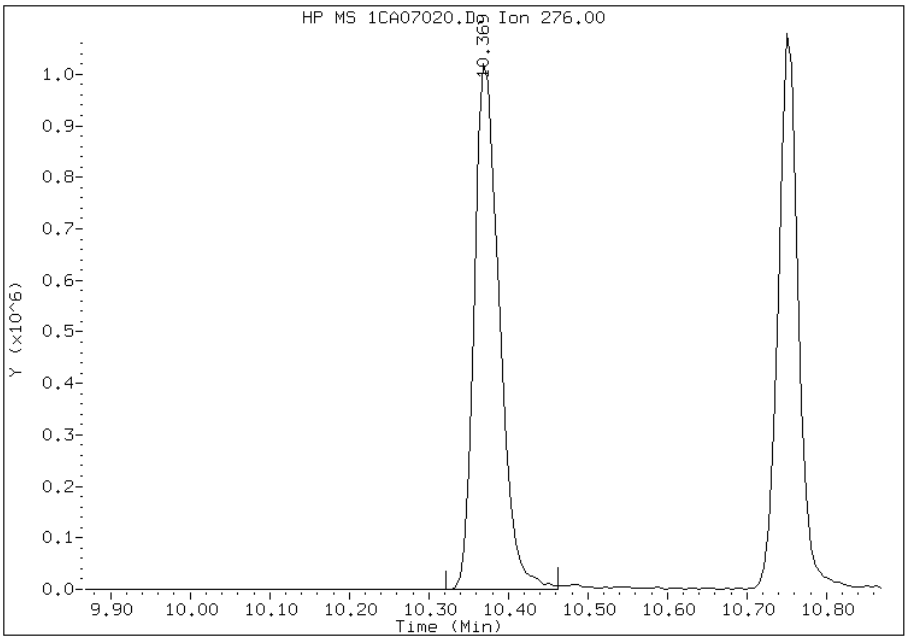
Processing Integration Results

RT: 10.37

Response: 2215563

Amount: 23

Conc: 23



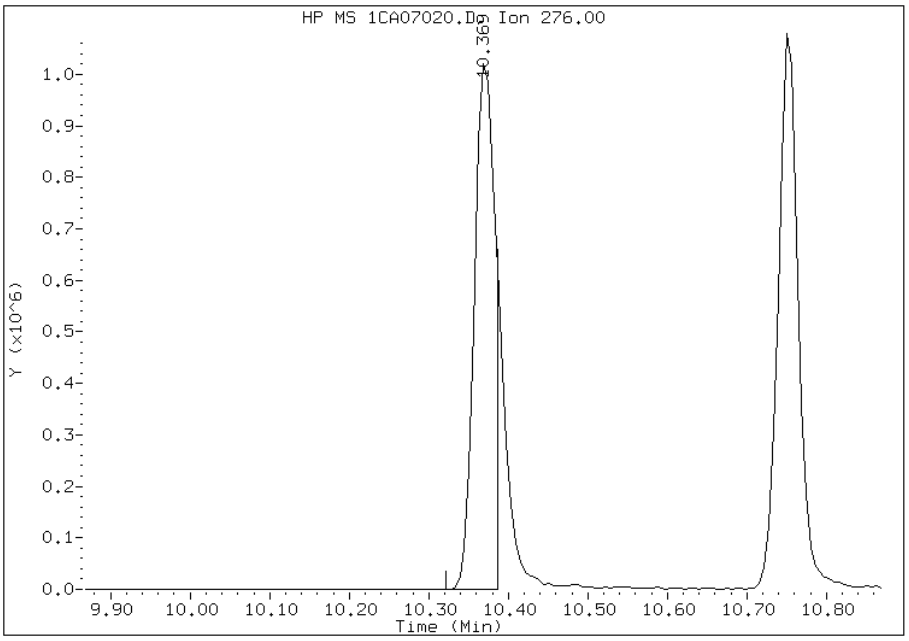
Manual Integration Results

RT: 10.37

Response: 1812061

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:44
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Lab Sample ID: CCVIS 660-134530/4 Calibration Date: 02/15/2013 11:56

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: 1CB15004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.060	0.0000	20000	20000	0.0	20.0
2-Methylnaphthalene	Ave	0.6892	0.6809	0.0000	19800	20000	-1.2	20.0
1-Methylnaphthalene	Ave	0.6268	0.6407	0.0000	20400	20000	2.2	20.0
Acenaphthylene	Ave	1.591	1.582	0.0000	19900	20000	-0.6	20.0
Acenaphthene	Ave	0.998	0.9393	0.0000	18800	20000	-5.9	20.0
Fluorene	Ave	1.281	1.238	0.0000	19300	20000	-3.4	20.0
Phenanthrene	Ave	1.194	1.089	0.0000	18200	20000	-8.8	20.0
Anthracene	Ave	1.076	1.108	0.0000	20600	20000	3.0	20.0
Carbazole	Ave	0.9344	0.9721	0.0000	20800	20000	4.0	20.0
Fluoranthene	Ave	1.167	1.234	0.0000	21200	20000	5.8	20.0
Pyrene	Ave	1.065	1.167	0.0000	21900	20000	9.6	20.0
Benzo[a]anthracene	Ave	1.103	1.079	0.0000	19600	20000	-2.2	20.0
Chrysene	Ave	1.139	1.065	0.0000	18700	20000	-6.5	20.0
Benzo[b]fluoranthene	Ave	0.9807	1.095	0.0000	22300	20000	11.6	20.0
Benzo[k]fluoranthene	Ave	1.080	1.070	0.0000	19800	20000	-0.9	20.0
Benzo[a]pyrene	Ave	0.9332	0.997	0.0000	21400	20000	6.8	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.8864	0.0000	19800	20000	-1.1	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8200	0.0000	19400	20000	-3.0	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.8634	0.0000	19000	20000	-5.2	20.0
o-Terphenyl	Ave	0.5861	0.5769	0.0000	19700	20000	-1.6	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15004.D
Lab Smp Id: CCVIS-1489898
Inj Date : 15-FEB-2013 11:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 4 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)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2569302	40.0000	(H)
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1996632	40.0000	(H)
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3819499	40.0000	(H)
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	1101673	20.0000	19.6852(H)
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	4339487	40.0000	(H)
* 23 Perylene-d12	264	9.039	9.039	(1.000)	4016358	40.0000	(H)
2 Naphthalene	128	3.833	3.833	(1.003)	1362273	20.0000	20.0089(H)
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	874660	20.0000	19.7577(H)
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	823032	20.0000	20.4417(H)
5 Acenaphthylene	152	4.821	4.821	(0.982)	1579018	20.0000	19.8782(H)
7 Acenaphthene	154	4.927	4.927	(1.004)	937736	20.0000	18.8224(H)
9 Fluorene	166	5.245	5.245	(1.068)	1235679	20.0000	19.3220(H)
11 Phenanthrene	178	5.880	5.880	(1.003)	2079382	20.0000	18.2386(H)
12 Anthracene	178	5.910	5.910	(1.008)	2116673	20.0000	20.6064(H)
13 Carbazole	167	6.015	6.015	(1.026)	1856475	20.0000	20.8069(H)
15 Fluoranthene	202	6.721	6.721	(1.146)	2356572	20.0000	21.1535(H)
16 Pyrene	202	6.886	6.886	(0.881)	2531402	20.0000	21.9116(H)
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	2341337	20.0000	19.5653(H)
19 Chrysene	228	7.833	7.833	(1.002)	2311739	20.0000	18.7018(H)
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	2198183	20.0000	22.3238(H)
21 Benzo(k)fluoranthene	252	8.698	8.698	(0.962)	2149559	20.0000	19.8154(H)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	2002073	20.0000	21.3673(H)
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.135)	1780040	20.0000	19.7793(MH)
25 Dibenzo(a,h)anthracene	278	10.280	10.280	(1.137)	1646677	20.0000	19.4031(H)
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.176)	1733826	20.0000	18.9661(H)

QC Flag Legend

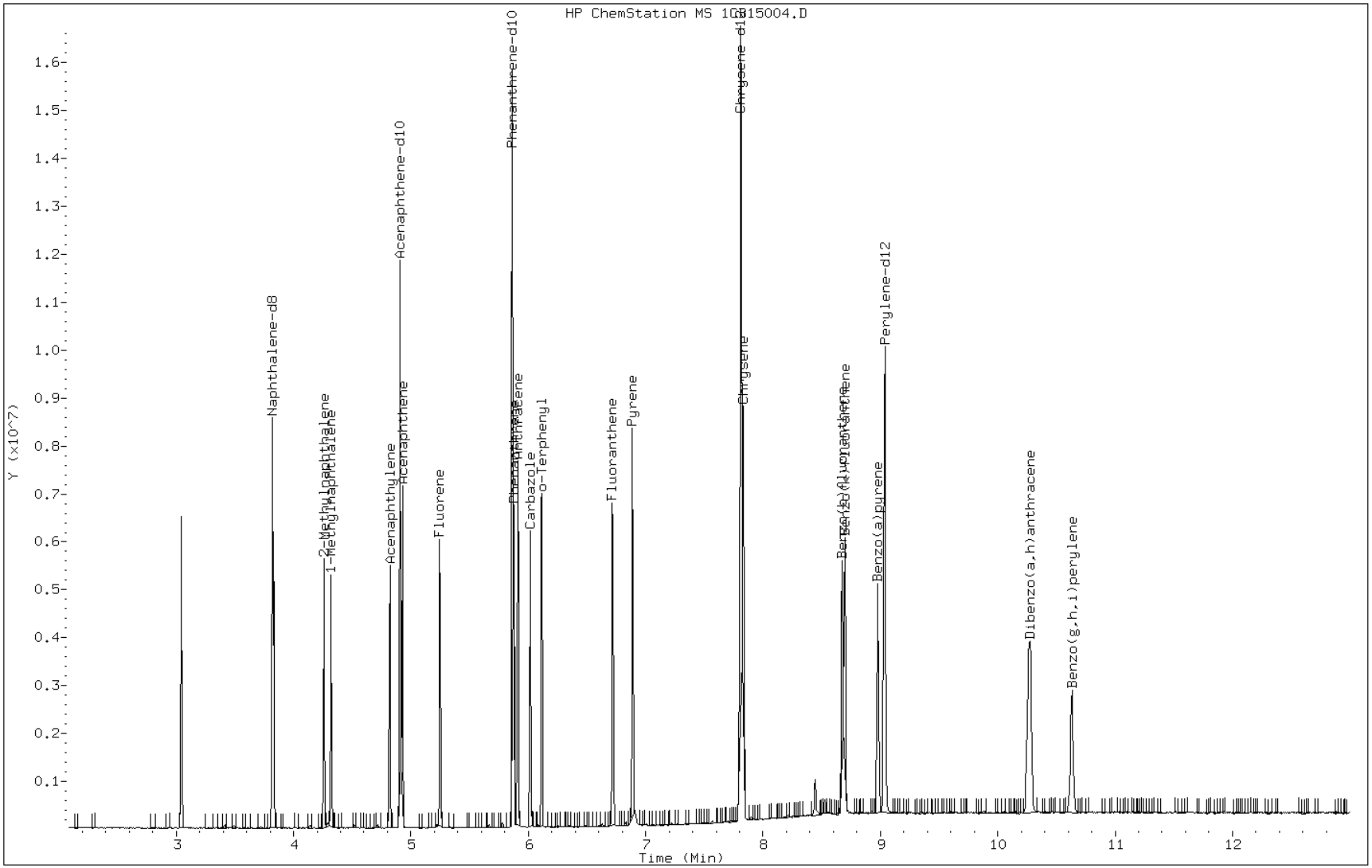
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB15004.D

Date: 15-FEB-2013 11:56

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CB15004.D
Inj. Date and Time: 15-FEB-2013 11:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

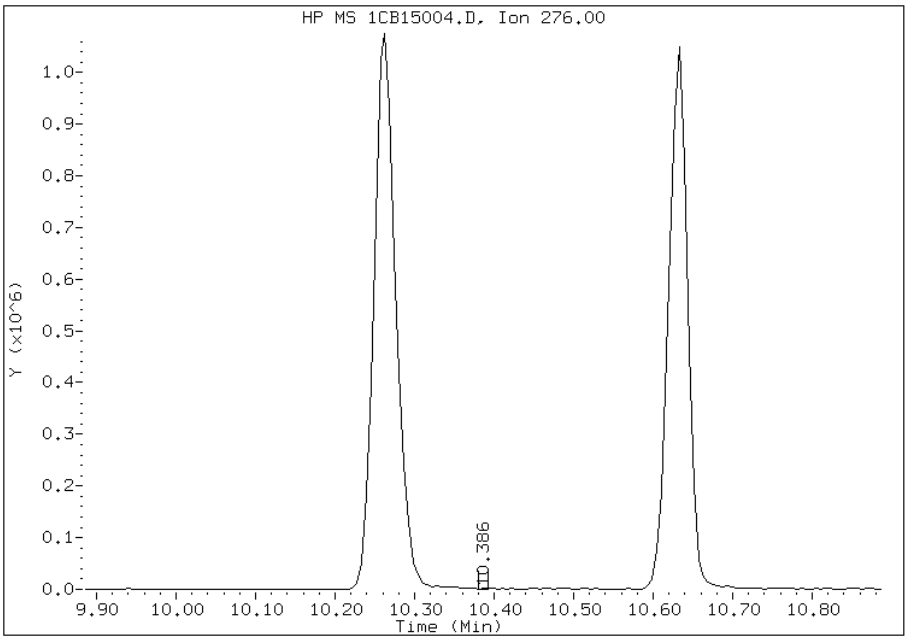
Processing Integration Results

RT: 10.39

Response: 862

Amount: 0

Conc: 0



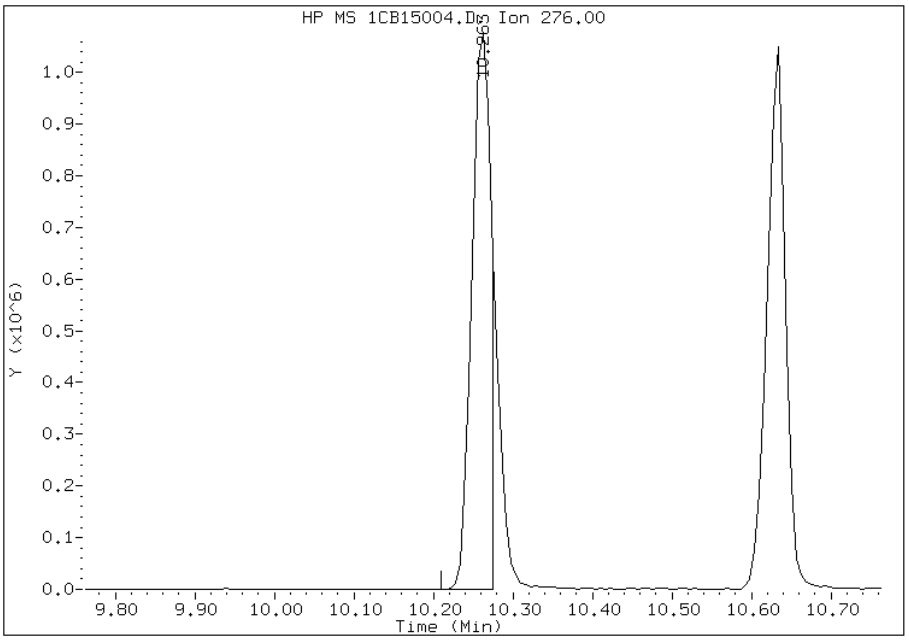
Manual Integration Results

RT: 10.26

Response: 1780040

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 12:21
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Lab Sample ID: CCVIS 660-134598/3 Calibration Date: 02/18/2013 14:07

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: 1CB18003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.047	0.0000	19800	20000	-1.2	20.0
2-Methylnaphthalene	Ave	0.6892	0.6840	0.0000	19800	20000	-0.8	20.0
1-Methylnaphthalene	Ave	0.6268	0.6317	0.0000	20200	20000	0.8	20.0
Acenaphthylene	Ave	1.591	1.617	0.0000	20300	20000	1.6	20.0
Acenaphthene	Ave	0.998	0.9461	0.0000	19000	20000	-5.2	20.0
Fluorene	Ave	1.281	1.231	0.0000	19200	20000	-3.9	20.0
Phenanthrene	Ave	1.194	1.068	0.0000	17900	20000	-10.5	20.0
Anthracene	Ave	1.076	1.102	0.0000	20500	20000	2.5	20.0
Carbazole	Ave	0.9344	0.9797	0.0000	21000	20000	4.8	20.0
Fluoranthene	Ave	1.167	1.238	0.0000	21200	20000	6.1	20.0
Pyrene	Ave	1.065	1.090	0.0000	20500	20000	2.4	20.0
Benzo[a]anthracene	Ave	1.103	1.075	0.0000	19500	20000	-2.6	20.0
Chrysene	Ave	1.139	1.048	0.0000	18400	20000	-8.0	20.0
Benzo[b]fluoranthene	Ave	0.9807	0.9698	0.0000	19800	20000	-1.1	20.0
Benzo[k]fluoranthene	Ave	1.080	1.149	0.0000	21300	20000	6.3	20.0
Benzo[a]pyrene	Ave	0.9332	0.9930	0.0000	21300	20000	6.4	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.9147	0.0000	20400	20000	2.1	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8470	0.0000	20000	20000	0.2	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.9078	0.0000	19900	20000	-0.3	20.0
o-Terphenyl	Ave	0.5861	0.5956	0.0000	20300	20000	1.6	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 18-FEB-2013 14:07
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\a-bFASTPAHi-m.m
Meth Date : 18-Feb-2013 14:24 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)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	2084677	40.0000	(H)
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1616631	40.0000	(H)
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	3184282	40.0000	(H)
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	948249	20.0000	20.3238(H)
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	3977138	40.0000	(H)
* 23 Perylene-d12	264	9.027	9.027	(1.000)	3965161	40.0000	(H)
2 Naphthalene	128	3.827	3.827	(1.003)	1091737	20.0000	19.7630(H)
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	712948	20.0000	19.8486(H)
4 1-Methylnaphthalene	142	4.315	4.315	(1.131)	658440	20.0000	20.1555(H)
5 Acenaphthylene	152	4.815	4.815	(0.982)	1306819	20.0000	20.3186(H)
7 Acenaphthene	154	4.921	4.921	(1.004)	764707	20.0000	18.9573(H)
9 Fluorene	166	5.245	5.245	(1.070)	995062	20.0000	19.2169(H)
11 Phenanthrene	178	5.874	5.874	(1.003)	1700762	20.0000	17.8935(H)
12 Anthracene	178	5.909	5.909	(1.009)	1755251	20.0000	20.4966(H)
13 Carbazole	167	6.015	6.015	(1.027)	1559767	20.0000	20.9688(H)
15 Fluoranthene	202	6.715	6.715	(1.147)	1971005	20.0000	21.2219(H)
16 Pyrene	202	6.880	6.880	(0.881)	2167387	20.0000	20.4700(H)
17 Benzo(a)anthracene	228	7.798	7.798	(0.998)	2136848	20.0000	19.4834(H)
19 Chrysene	228	7.827	7.827	(1.002)	2084531	20.0000	18.4001(H)
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	1922756	20.0000	19.7788(H)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	2277315	20.0000	21.2641(H)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	1968703	20.0000	21.2824(H)
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.250	(1.136)	1813487	20.0000	20.4112(MH)
25 Dibenzo(a,h)anthracene	278	10.268	10.268	(1.137)	1679195	20.0000	20.0417(H)
26 Benzo(g,h,i)perylene	276	10.621	10.621	(1.177)	1799796	20.0000	19.9420(H)

QC Flag Legend

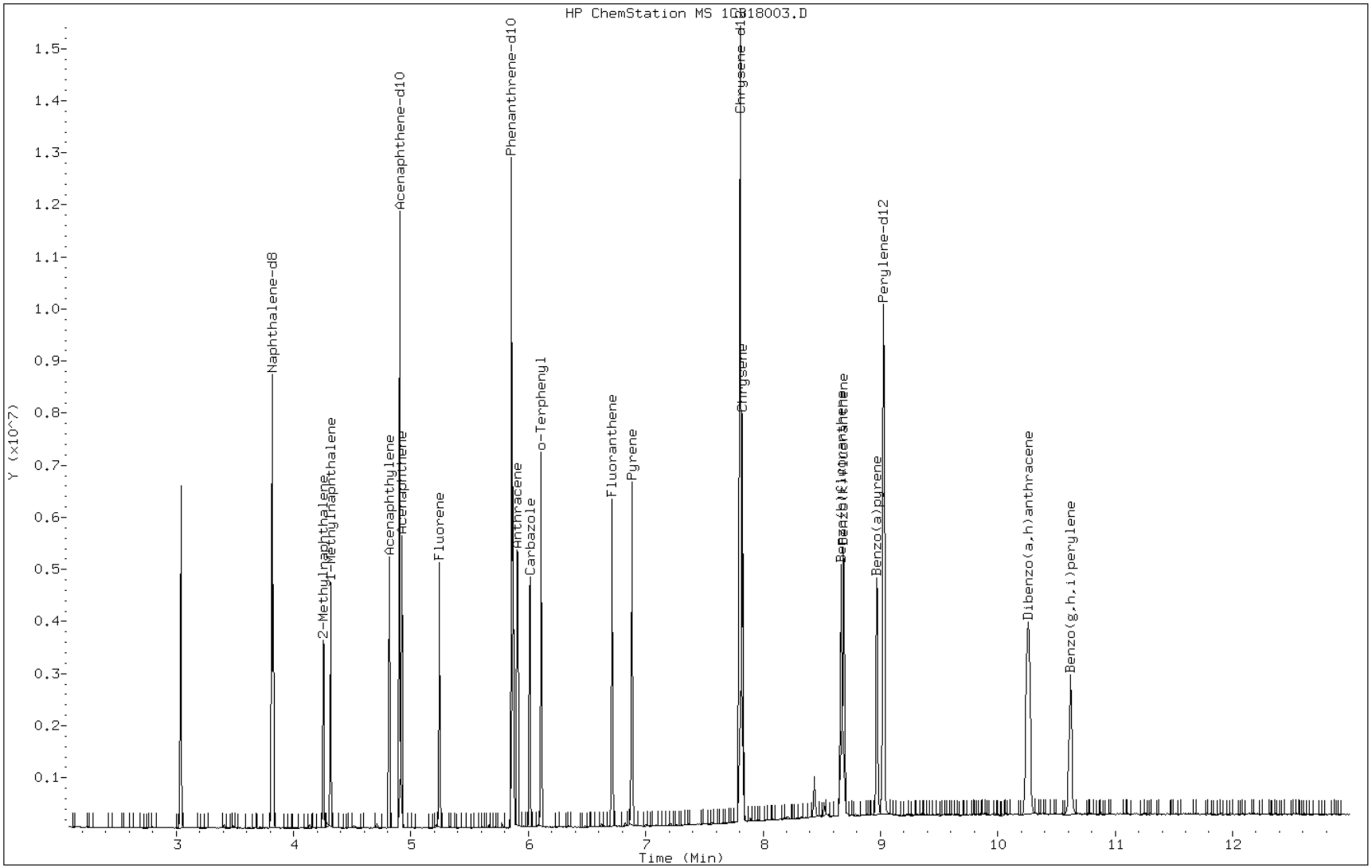
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB18003.D

Date: 18-FEB-2013 14:07

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CB18003.D
Inj. Date and Time: 18-FEB-2013 14:07
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

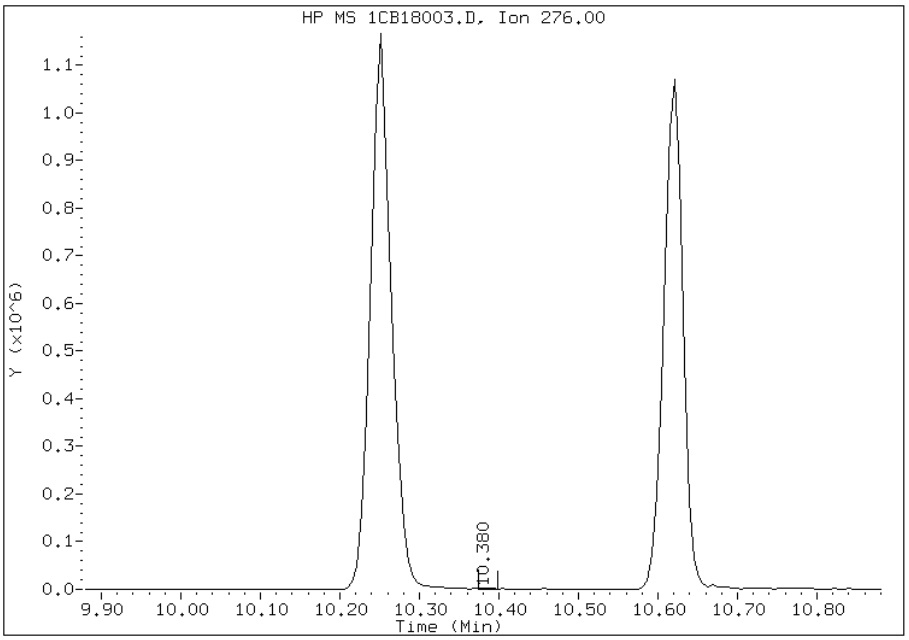
Processing Integration Results

RT: 10.38

Response: 1978

Amount: 0

Conc: 0



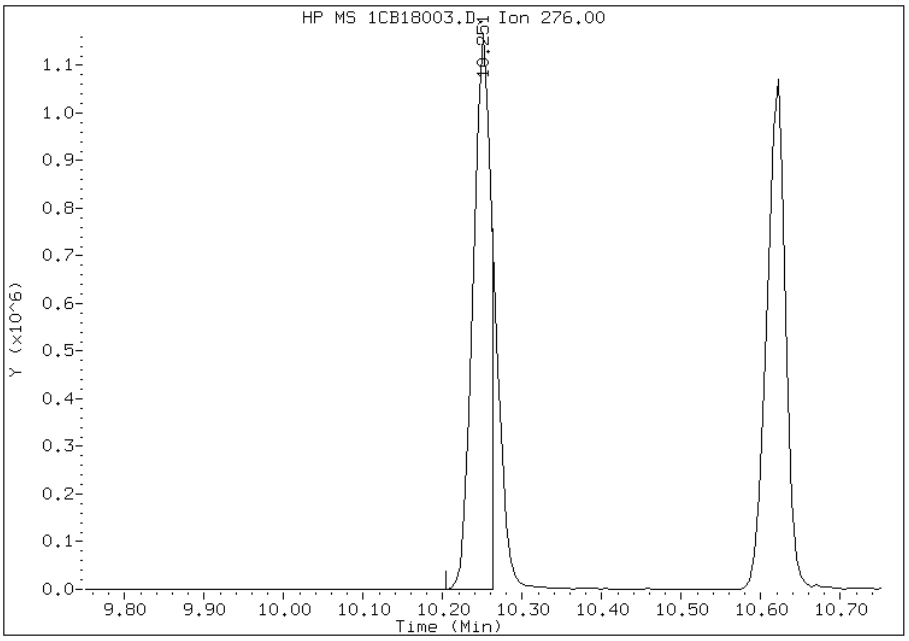
Manual Integration Results

RT: 10.25

Response: 1813487

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 14:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 30-JAN-2013 11:20
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.827	4.928	-0.101	198	74336			50.00- 0.00	100.00
4.827	4.928	-0.101	51	30248			10.00- 80.00	40.69
4.827	4.928	-0.101	68	0	0.0	0.0	0.00- 2.00	0.00
4.827	4.928	-0.101	69	32488			0.00- 0.00	43.70
4.827	4.928	-0.101	70	551			0.00- 2.00	1.70
4.827	4.928	-0.101	127	32864			10.00- 80.00	44.21
4.827	4.928	-0.101	197	1231			0.00- 2.00	1.66
4.827	4.928	-0.101	442	47368			50.00- 0.00	63.72
4.827	4.928	-0.101	199	4419			5.00- 9.00	5.94
4.827	4.928	-0.101	275	17432			10.00- 60.00	23.45
4.827	4.928	-0.101	365	1423			1.00- 0.00	1.91
4.827	4.928	-0.101	441	6409			0.01- 99.99	63.49
4.827	4.928	-0.101	443	10094			15.00- 24.00	21.31

Data File: 1AA30002.D

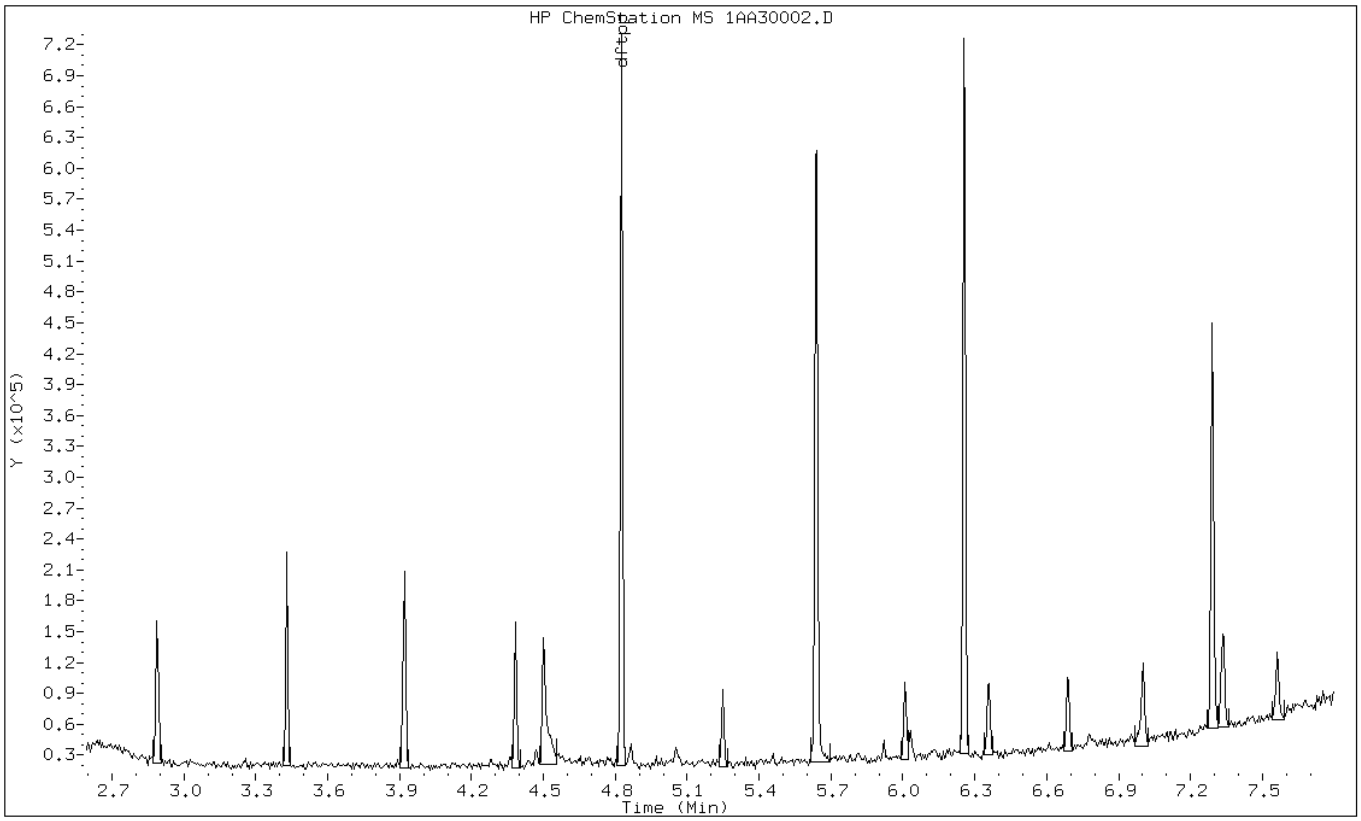
Date: 30-JAN-2013 11:20

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



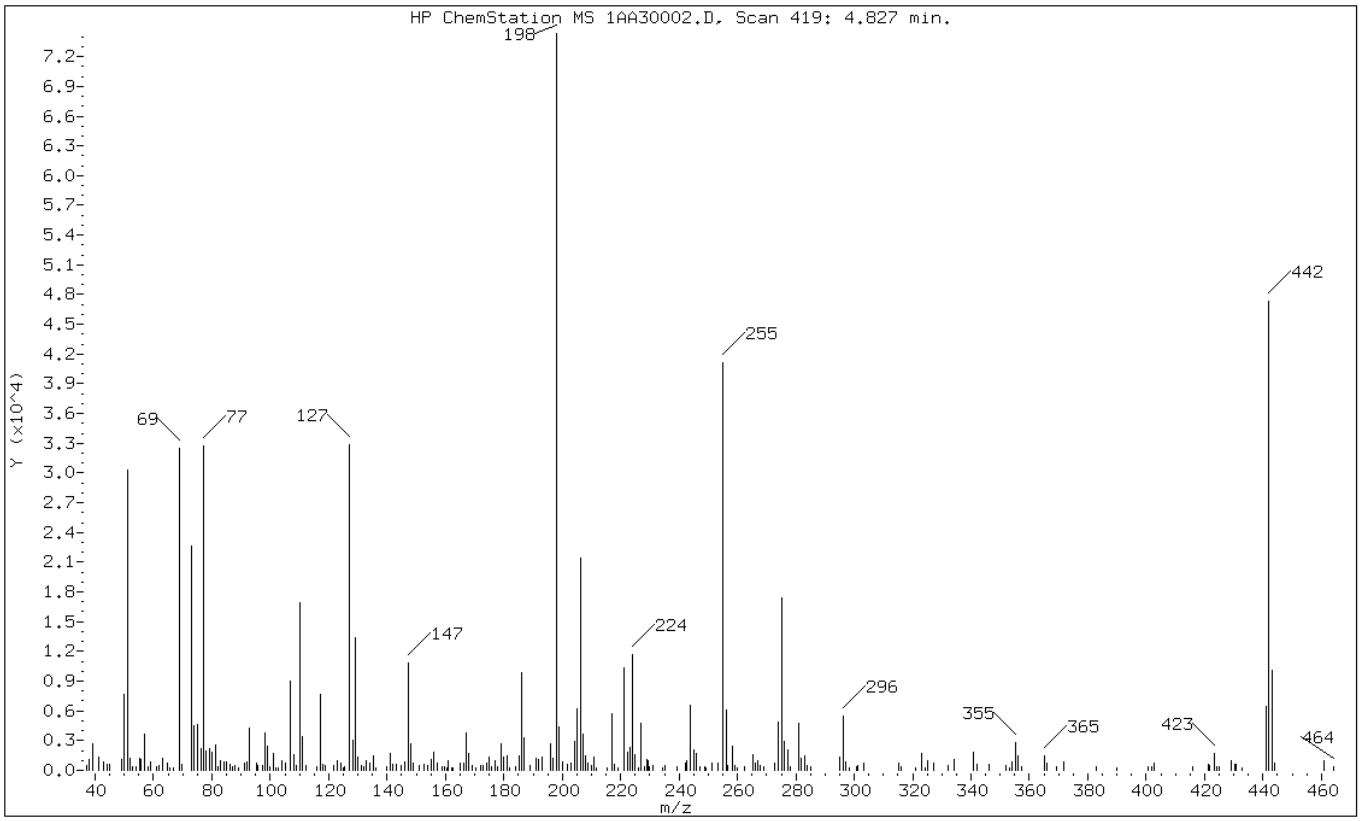
Data File: 1AA30002.D

Date: 30-JAN-2013 11:20

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	40.69
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	43.70
70	Less than 2.00% of mass 69	0.74 (1.70)
127	10.00 - 80.00% of mass 198	44.21
197	Less than 2.00% of mass 198	1.66
442	Greater than 50.00% of mass 198	63.72
199	5.00 - 9.00% of mass 198	5.94
275	10.00 - 60.00% of mass 198	23.45
365	Greater than 1.00% of mass 198	1.91
441	Present, but less than mass 443	8.62
443	15.00 - 24.00% of mass 442	13.58 (21.31)

Data File: 1AA30002.D

Date: 30-JAN-2013 11:20

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30002.D
Spectrum: HP ChemStation MS 1AA30002.D, Scan 419: 4.827 min.
Location of Maximum: 198.00
Number of points: 248

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	463	115.80	356	192.00	1084	276.10	2879
38.10	1056	117.10	7698	193.10	1299	277.10	2022
39.10	2640	118.00	636	196.00	2623	278.10	421
41.10	1394	119.00	501	196.80	1231	281.10	4793
43.00	902	121.90	513	198.00	74336	281.90	1263
44.00	620	123.00	937	198.90	4419	283.10	1463
45.00	642	124.00	788	200.10	855	284.00	447
48.90	1064	125.10	290	201.60	588	285.20	378
50.00	7633	125.50	311	203.00	744	295.20	1388
51.00	30248	127.00	32864	204.10	2969	296.10	5460
52.00	1249	128.10	3077	205.10	6251	296.90	760
52.90	352	129.00	13426	206.10	21376	297.20	902
53.90	364	130.00	1385	207.10	3697	298.30	304
55.10	1245	131.10	517	208.10	1470	300.90	404
55.80	1133	131.90	345	208.90	742	301.20	468
57.00	3594	133.00	994	209.90	487	303.10	772
58.00	309	134.00	730	211.00	1283	315.20	713
59.10	792	135.20	1418	211.70	255	316.10	325
60.90	420	136.00	288	215.30	270	321.20	282
62.00	469	139.90	376	217.00	5695	323.10	1758
63.00	1184	141.00	1743	217.80	552	324.20	260
64.90	784	142.10	566	218.90	263	325.10	1029
65.70	296	143.10	565	221.10	10393	327.10	752
67.00	252	144.90	525	222.20	1774	332.10	466
69.00	32488	146.20	827	223.20	2301	334.10	1128
69.70	551	147.10	10784	224.10	11718	341.00	1772
73.10	22664	148.00	2728	225.00	1594	342.10	567
74.00	4472	148.90	784	226.10	256	346.20	603
75.00	4596	151.10	492	227.00	4790	351.90	469
76.10	2241	152.80	652	228.30	359	353.00	252
77.10	32760	153.80	496	228.90	1100	354.10	793
78.00	1915	155.00	1059	229.20	1033	355.10	2767
79.00	2162	156.10	1885	230.00	399	355.90	1469
80.00	1874	157.30	786	231.10	431	357.20	404
81.10	2537	158.70	305	234.20	272	365.20	1423
82.00	421	159.80	318	235.00	441	366.00	738
83.10	924	160.30	264	239.10	349	369.10	312
84.00	848	160.90	988	242.20	734	371.90	897
85.00	866	162.10	270	242.80	993	383.00	420
86.00	559	162.40	286	244.00	6598	390.00	264

87.10	384	165.10	785	245.00	2014	400.80	379
88.00	530	166.10	783	246.10	1712	402.00	325
89.00	250	167.00	3795	247.10	374	402.80	702
91.10	782	168.10	1669	248.90	360	416.00	308
92.10	880	169.00	452	249.20	288	421.10	557
93.00	4215	170.30	274	251.10	700	421.90	480
95.20	724	172.00	496	253.20	782	423.20	1724
95.80	434	172.90	511	255.10	41128	424.20	319
97.20	475	174.10	708	256.10	6049	424.90	324
98.00	3751	175.00	1328	256.80	482	429.10	971
99.00	2422	175.90	361	258.10	2470	430.20	549
99.90	308	177.10	917	259.10	440	430.90	557
101.00	1674	178.00	419	260.10	293	433.00	281
101.90	279	179.00	2653	262.30	318	441.00	6409
102.80	255	179.90	1296	265.20	1624	442.00	47368
104.00	952	181.00	1468	266.10	737	443.00	10094
105.00	681	182.10	271	267.00	947	444.00	751
107.00	9036	184.00	349	267.80	439	461.10	933
108.10	1631	185.10	1466	268.90	299	464.20	357
109.00	458	186.10	9887	269.20	385		
110.00	16928	187.00	3312	272.80	771		
111.00	3457	189.10	506	274.10	4829		
112.10	507	191.10	1269	275.10	17432		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 15-FEB-2013 15:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.719	4.928	-0.209	198	64712			50.00- 0.00	100.00
4.719	4.928	-0.209	51	22008			10.00- 80.00	34.01
4.719	4.928	-0.209	68	0	0.0	0.0	0.00- 2.00	0.00
4.719	4.928	-0.209	69	26120			0.00- 0.00	40.36
4.719	4.928	-0.209	70	0	0.0	0.0	0.00- 2.00	0.00
4.719	4.928	-0.209	127	25096			10.00- 80.00	38.78
4.719	4.928	-0.209	197	0	0.0	0.0	0.00- 2.00	0.00
4.719	4.928	-0.209	442	54360			50.00- 0.00	84.00
4.719	4.928	-0.209	199	3659			5.00- 9.00	5.65
4.719	4.928	-0.209	275	17856			10.00- 60.00	27.59
4.719	4.928	-0.209	365	3884			1.00- 0.00	6.00
4.719	4.928	-0.209	441	8520			0.01- 99.99	98.89
4.719	4.928	-0.209	443	8616			15.00- 24.00	15.85

Data File: 1AB15005.D

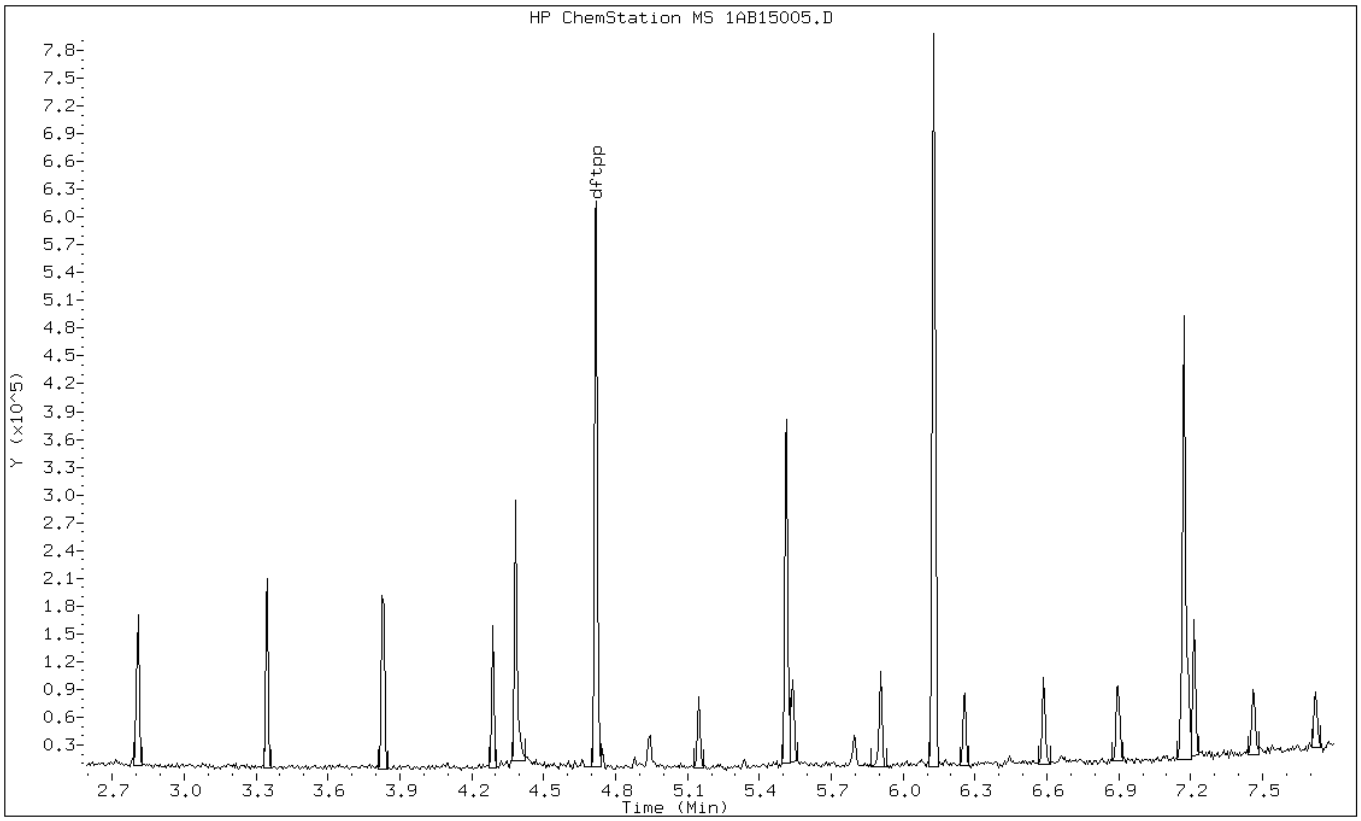
Date: 15-FEB-2013 15:08

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



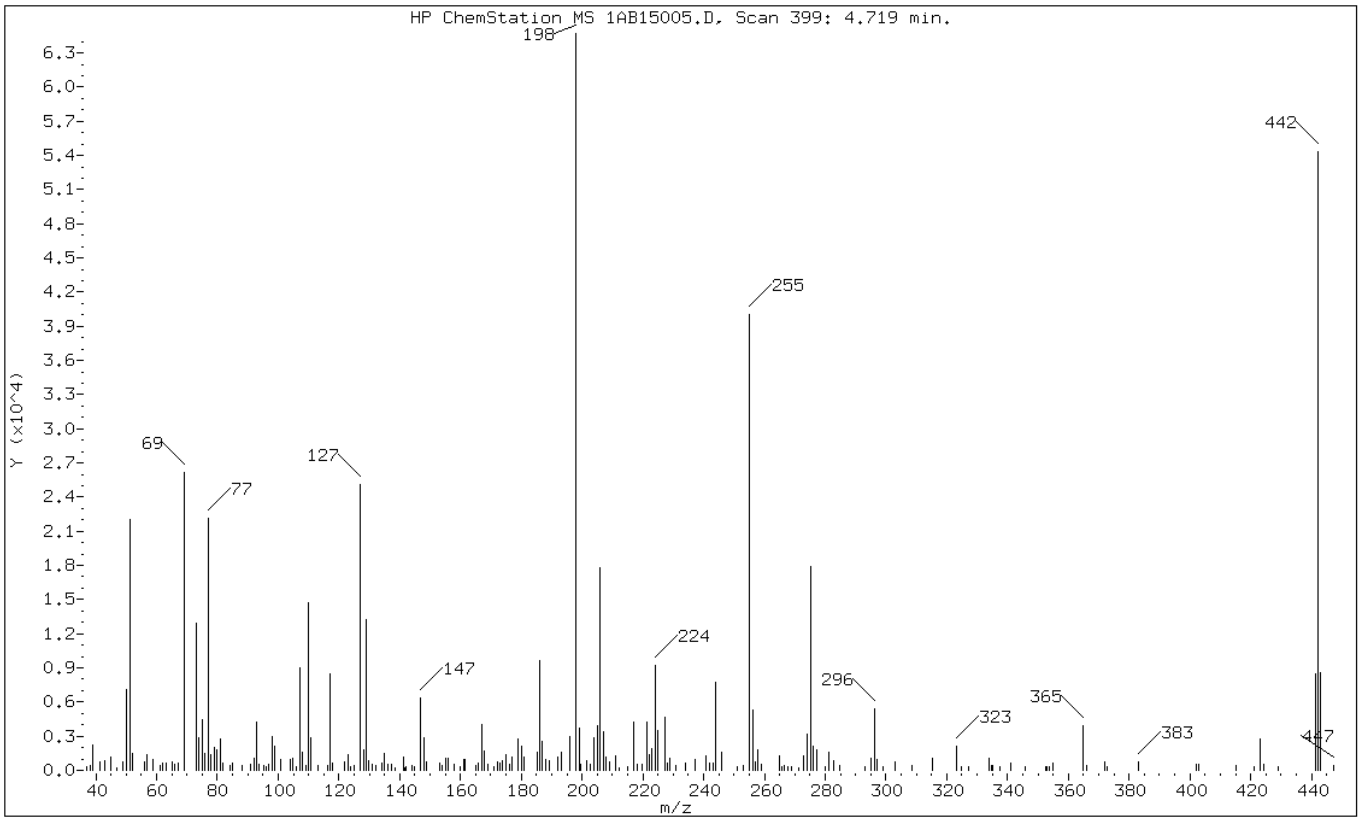
Data File: 1AB15005.D

Date: 15-FEB-2013 15:08

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.01
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.36
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	38.78
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	84.00
199	5.00 - 9.00% of mass 198	5.65
275	10.00 - 60.00% of mass 198	27.59
365	Greater than 1.00% of mass 198	6.00
441	Present, but less than mass 443	13.17
443	15.00 - 24.00% of mass 442	13.31 (15.85)

Data File: 1AB15005.D

Date: 15-FEB-2013 15:08

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15005.D
Spectrum: HP ChemStation MS 1AB15005.D, Scan 399: 4.719 min.
Location of Maximum: 198.00
Number of points: 205

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	337	113.00	413	185.10	1608	269.10	361
38.00	428	116.10	396	186.00	9661	271.10	251
39.00	2272	117.00	8421	187.00	2495	272.90	1248
41.20	762	117.90	652	188.00	938	274.10	3208
43.00	860	121.80	779	189.10	838	275.10	17856
45.10	1140	123.00	1401	192.10	1135	276.10	2074
47.10	263	124.00	296	193.10	1538	277.10	1830
48.90	772	125.00	386	196.10	2976	279.90	291
50.00	7139	127.00	25096	198.00	64712	281.00	1628
51.10	22008	128.00	1769	199.00	3659	282.90	810
52.00	1460	129.00	13265	199.70	517	284.80	450
56.00	701	129.90	873	201.50	877	293.00	266
56.90	1324	131.00	521	202.90	572	295.10	1010
59.00	911	132.10	394	204.00	2828	296.10	5422
61.20	425	134.10	611	205.00	3944	297.10	937
61.90	589	135.00	1436	206.00	17760	299.00	360
63.20	660	136.00	504	207.20	3392	303.10	728
65.00	742	137.10	523	207.90	1149	308.60	421
65.80	496	138.30	260	208.90	701	315.10	1085
67.20	612	141.10	1183	210.90	1225	323.30	2073
69.00	26120	141.60	257	212.10	255	324.80	303
73.10	12930	142.10	332	215.00	276	327.10	337
74.00	2861	143.90	427	217.00	4247	334.10	1018
75.00	4493	145.00	293	218.00	511	334.90	458
76.00	1531	147.00	6380	219.90	499	335.10	437
77.10	22120	148.00	2877	221.20	4269	337.40	302
78.00	1382	148.90	710	222.20	1392	341.20	623
79.00	2019	153.10	678	223.10	1932	345.90	339
80.00	1806	154.00	371	224.10	9201	352.40	341
81.00	2789	155.10	1104	225.10	3524	353.10	289
81.80	612	156.10	1073	227.10	4669	353.80	349
84.10	399	158.00	483	228.00	688	355.00	639
84.80	630	159.80	346	228.90	1100	365.00	3884
88.00	384	161.10	940	230.90	399	365.90	464
91.00	514	161.40	944	234.10	649	366.20	469
92.00	1047	161.60	884	237.10	931	372.10	748
93.00	4227	164.90	396	240.90	1311	372.80	317
93.70	498	165.10	408	242.10	588	382.90	729
95.20	403	166.00	631	243.00	645	402.20	548
96.00	363	166.90	4026	244.10	7780	403.00	486

97.00	510	168.00	1663	246.00	1623	415.10	392
98.10	2940	169.00	494	251.10	352	421.10	284
99.00	2169	170.80	312	253.20	454	423.10	2777
101.00	946	172.10	768	255.10	40000	424.20	497
104.00	973	173.10	643	256.10	5315	429.00	320
104.90	1076	173.90	854	257.00	694	441.20	8520
105.90	316	175.10	1325	257.90	1822	442.00	54360
107.00	9003	176.20	561	259.10	576	443.10	8616
108.00	1600	177.00	1145	264.90	1316	447.30	422
109.00	402	179.00	2793	265.80	353		
110.00	14767	180.00	2070	266.70	475		
110.90	2860	181.00	1182	267.90	327		

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

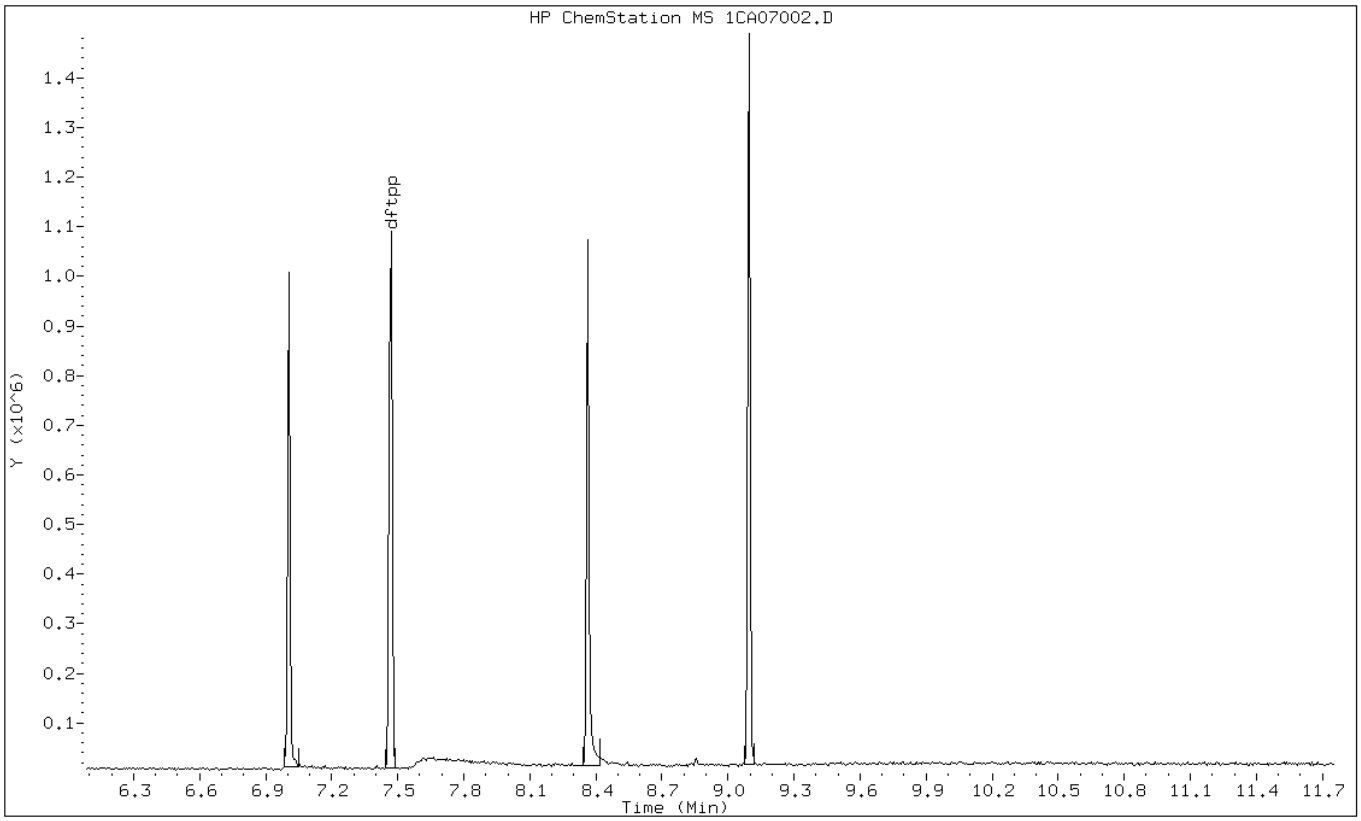
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.469	7.763	-0.294	198	127120			50.00- 0.00	100.00
7.469	7.763	-0.294	51	41280			10.00- 80.00	32.47
7.469	7.763	-0.294	68	533			0.00- 2.00	1.05
7.469	7.763	-0.294	69	50672			0.00- 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



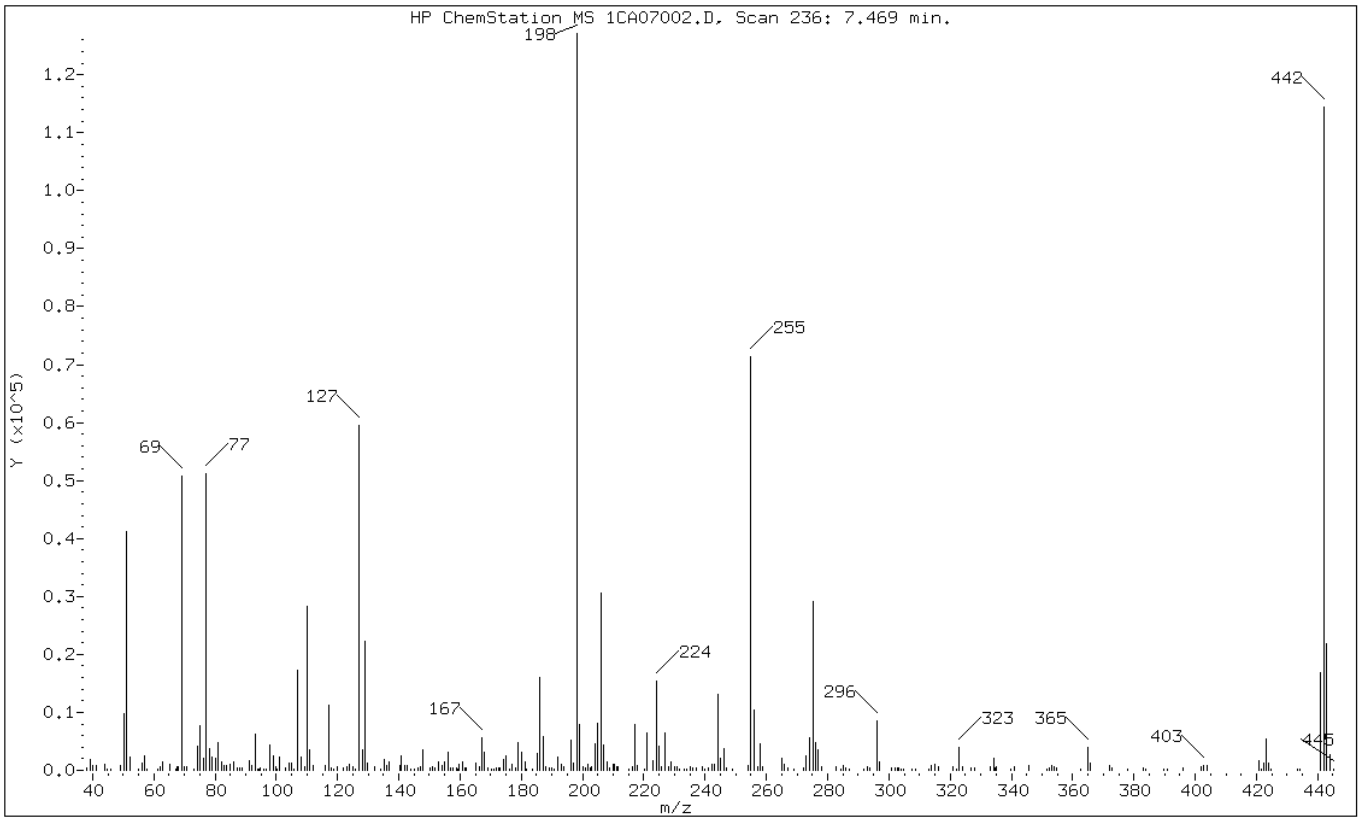
Data File: 1CA07002.D

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\1C021513.b\1CB15003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 15-FEB-2013 11:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 3 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

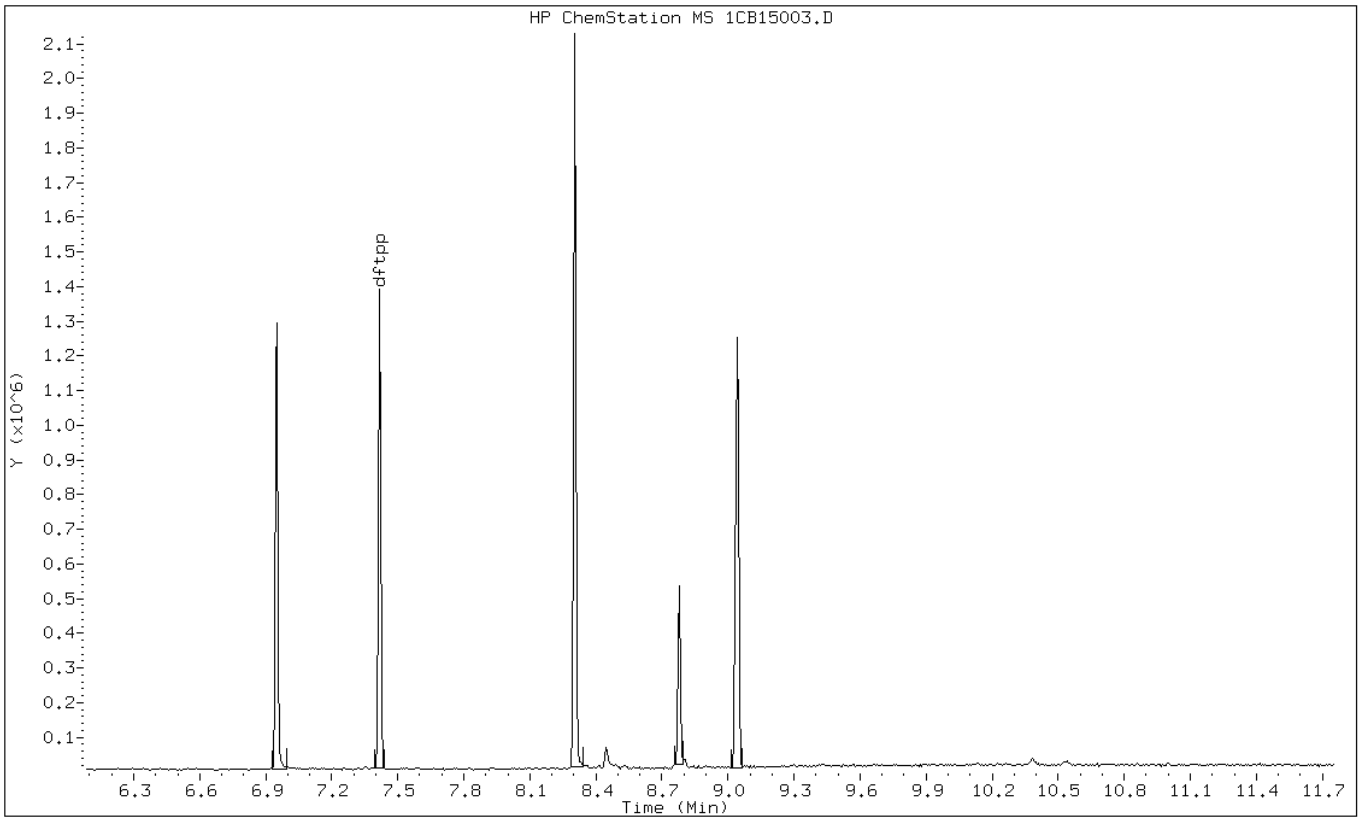
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.416	7.469	-0.053	198	165504			50.00- 0.00	100.00
7.416	7.469	-0.053	51	54416			10.00- 80.00	32.88
7.416	7.469	-0.053	68	766			0.00- 2.00	1.06
7.416	7.469	-0.053	69	72000			0.00- 0.00	43.50
7.416	7.469	-0.053	70	581			0.00- 2.00	0.81
7.416	7.469	-0.053	127	77344			10.00- 80.00	46.73
7.416	7.469	-0.053	197	1518			0.00- 2.00	0.92
7.416	7.469	-0.053	442	118800			50.00- 0.00	71.78
7.416	7.469	-0.053	199	12221			5.00- 9.00	7.38
7.416	7.469	-0.053	275	37832			10.00- 60.00	22.86
7.416	7.469	-0.053	365	4167			1.00- 0.00	2.52
7.416	7.469	-0.053	441	18088			0.01- 99.99	68.47
7.416	7.469	-0.053	443	26416			15.00- 24.00	22.24

Data File: 1CB15003.D

Date: 15-FEB-2013 11:40

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



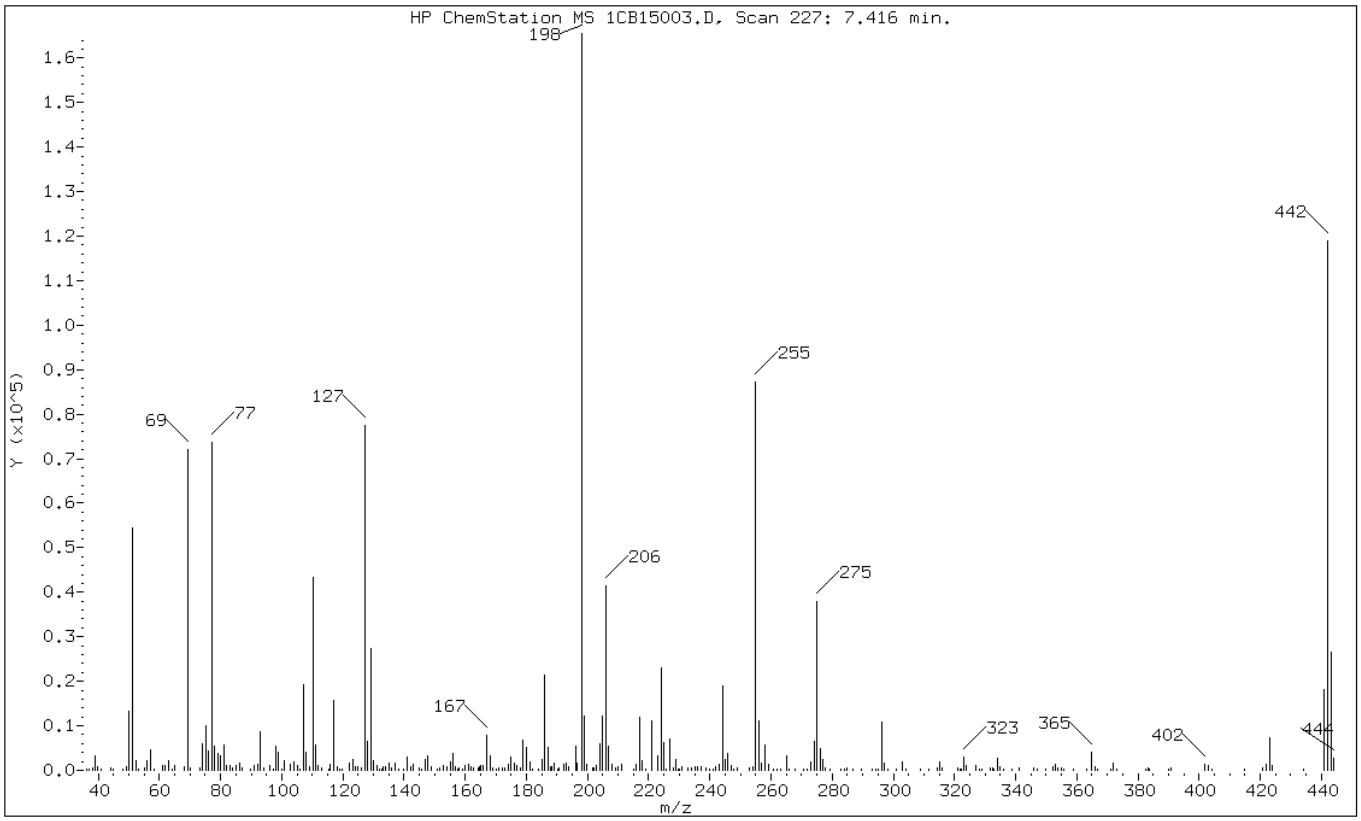
Data File: 1CB15003.D

Date: 15-FEB-2013 11:40

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	32.88
68	Less than 2.00% of mass 69	0.46 (1.06)
69	Mass 69 relative abundance	43.50
70	Less than 2.00% of mass 69	0.35 (0.81)
127	10.00 - 80.00% of mass 198	46.73
197	Less than 2.00% of mass 198	0.92
442	Greater than 50.00% of mass 198	71.78
199	5.00 - 9.00% of mass 198	7.38
275	10.00 - 60.00% of mass 198	22.86
365	Greater than 1.00% of mass 198	2.52
441	Present, but less than mass 443	10.93
443	15.00 - 24.00% of mass 442	15.96 (22.24)

Data File: 1CB15003.D

Date: 15-FEB-2013 11:40

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15003.D
Spectrum: HP ChemStation MS 1CB15003.D, Scan 227: 7.416 min.
Location of Maximum: 198.00
Number of points: 281

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	202	124.10	700	196.10	5316	284.10	264
36.90	243	124.90	823	196.70	1518	285.00	483
38.20	616	126.20	562	198.00	165504	286.90	160
39.10	3384	127.10	77344	199.00	12221	289.70	189
39.90	889	128.10	6489	199.90	1426	292.90	399
40.80	302	129.10	27432	201.50	582	294.20	258
44.10	516	130.00	2118	202.20	551	295.00	177
44.80	250	131.00	998	203.00	1069	296.10	10818
48.00	217	132.00	196	204.10	5947	297.00	1601
49.10	877	132.60	307	205.00	12112	298.20	227
50.10	13274	133.30	716	206.10	41432	301.00	167
51.10	54416	134.10	878	207.00	5303	303.00	1988
52.20	2036	135.00	1641	208.00	1318	304.00	168
53.10	288	136.00	512	209.10	537	308.90	250
55.10	607	137.10	1602	210.10	753	311.70	321
56.00	2100	138.10	266	211.00	1469	314.30	618
57.10	4572	139.90	247	214.90	338	315.00	1867
58.10	259	141.10	2882	216.00	1341	316.10	514
61.10	998	142.00	869	217.00	11805	321.20	649
62.00	979	142.80	1359	218.00	2111	321.70	196
63.10	2248	145.10	551	218.90	177	322.20	229
64.10	270	145.60	338	221.00	10980	323.10	3075
65.00	1105	147.10	2483	223.00	3215	324.00	1052
68.20	766	147.90	3295	224.10	23040	327.00	962
69.10	72000	149.00	742	225.10	6130	328.20	336
70.00	581	150.90	323	225.80	396	329.00	186
73.10	433	151.50	502	227.00	7147	331.90	642
74.10	5836	153.00	1125	227.90	594	332.60	428
75.10	10029	154.00	851	228.90	2511	332.90	380
76.10	4206	155.00	1827	229.80	196	334.00	2608
77.10	73600	156.00	3890	230.20	348	334.90	681
78.10	5411	156.80	721	231.00	747	336.20	299
79.00	3847	157.50	383	232.90	483	338.80	227
80.00	3333	158.10	622	234.10	548	341.10	653
81.10	5637	159.00	160	235.10	782	346.00	613
82.10	1178	160.00	1187	236.00	688	346.90	232
83.10	1140	161.20	1356	237.00	755	350.00	359
83.80	655	161.90	878	238.80	636	352.00	931
85.10	1107	162.80	435	239.90	263	353.00	1335
86.10	1537	164.20	556	240.90	381	353.90	610

87.10	640	164.70	934	242.00	929	355.00	448
89.80	341	165.10	1112	242.90	1362	355.90	243
91.00	1187	166.00	1080	244.10	18880	359.00	178
92.00	1229	167.00	7874	245.00	2451	363.10	158
93.00	8763	168.00	3199	246.00	3682	365.00	4167
94.30	561	168.90	627	247.00	956	366.10	730
96.20	996	170.00	286	247.90	382	366.80	287
97.20	280	171.10	455	249.00	495	371.10	328
98.10	5552	172.00	527	253.10	579	372.00	1655
98.90	4020	173.10	673	253.90	932	372.90	339
100.10	321	174.10	1226	255.00	87176	382.70	294
101.00	2274	175.00	3070	256.00	11041	383.20	506
102.90	1366	176.10	1660	257.00	1497	383.70	208
103.90	2024	177.00	1128	258.00	5747	389.90	172
105.00	1170	178.10	421	259.10	1374	390.90	446
105.90	196	179.00	6675	260.90	243	402.00	1419
107.10	19208	180.10	5043	262.00	249	403.00	950
108.00	3986	181.00	1852	263.00	153	404.10	229
109.00	692	181.90	256	265.10	3325	415.00	187
110.10	43448	184.10	362	265.90	370	420.90	600
111.10	5619	185.00	2502	268.00	304	422.10	1356
111.90	1165	186.10	21320	270.60	307	423.00	7370
112.90	432	187.10	5202	271.90	232	424.10	1156
115.20	374	187.90	723	273.00	1819	434.00	203
115.90	1431	188.20	705	274.10	6497	441.00	18088
117.10	15618	189.10	1540	275.00	37832	442.00	118800
118.00	924	190.10	318	276.00	4895	443.10	26416
119.10	357	190.80	591	277.00	2366	444.00	2685
119.90	320	192.10	1282	277.90	434		
122.00	1620	193.00	1544	279.30	358		
123.10	2553	194.00	743	282.90	292		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-FEB-2013 13:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

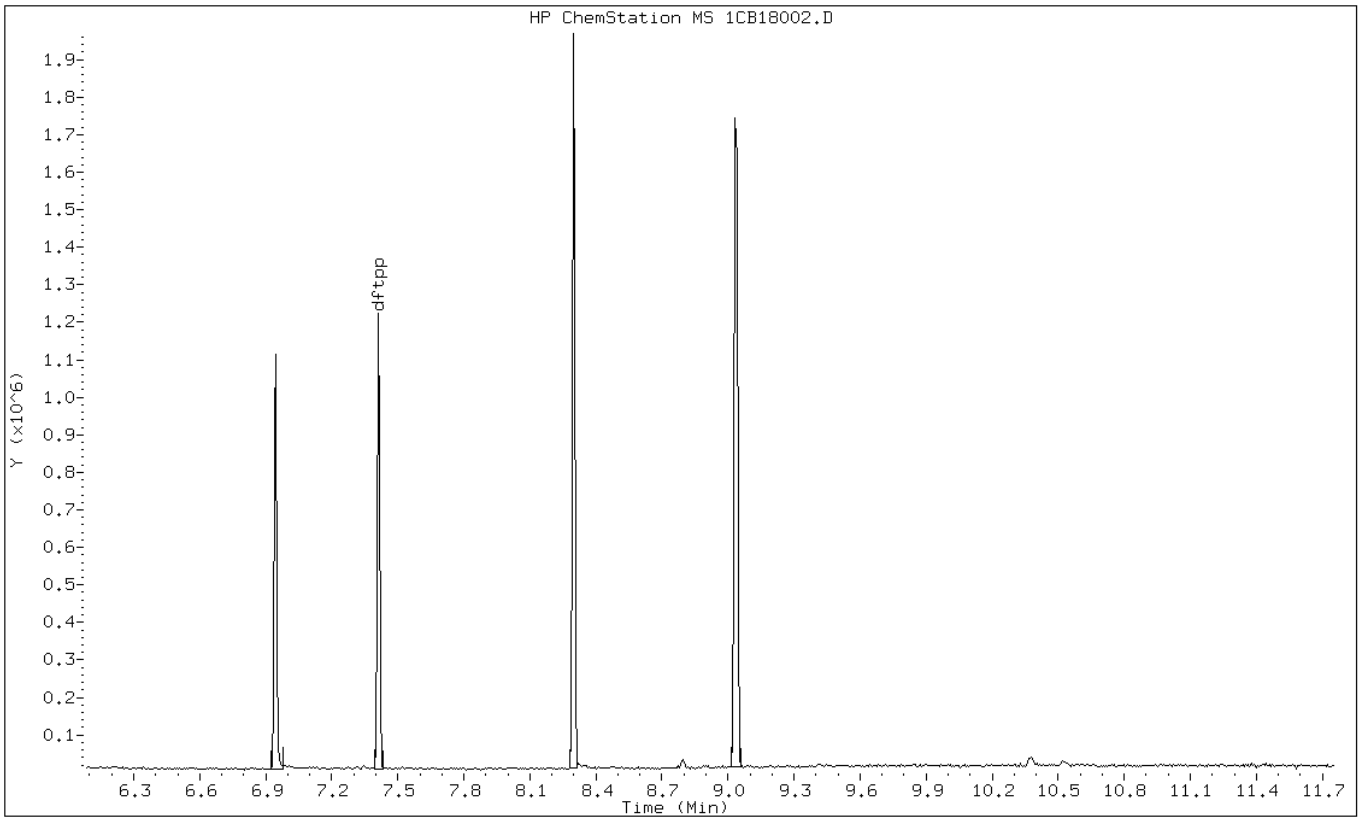
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.410	7.469	-0.059	198	145216			50.00- 0.00	100.00
7.410	7.469	-0.059	51	51064			10.00- 80.00	35.16
7.410	7.469	-0.059	68	1067			0.00- 2.00	1.61
7.410	7.469	-0.059	69	66456			0.00- 0.00	45.76
7.410	7.469	-0.059	70	355			0.00- 2.00	0.53
7.410	7.469	-0.059	127	66960			10.00- 80.00	46.11
7.410	7.469	-0.059	197	1418			0.00- 2.00	0.98
7.410	7.469	-0.059	442	106200			50.00- 0.00	73.13
7.410	7.469	-0.059	199	9488			5.00- 9.00	6.53
7.410	7.469	-0.059	275	32072			10.00- 60.00	22.09
7.410	7.469	-0.059	365	4814			1.00- 0.00	3.32
7.410	7.469	-0.059	441	15700			0.01- 99.99	79.78
7.410	7.469	-0.059	443	19680			15.00- 24.00	18.53

Data File: 1CB18002.D

Date: 18-FEB-2013 13:50

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



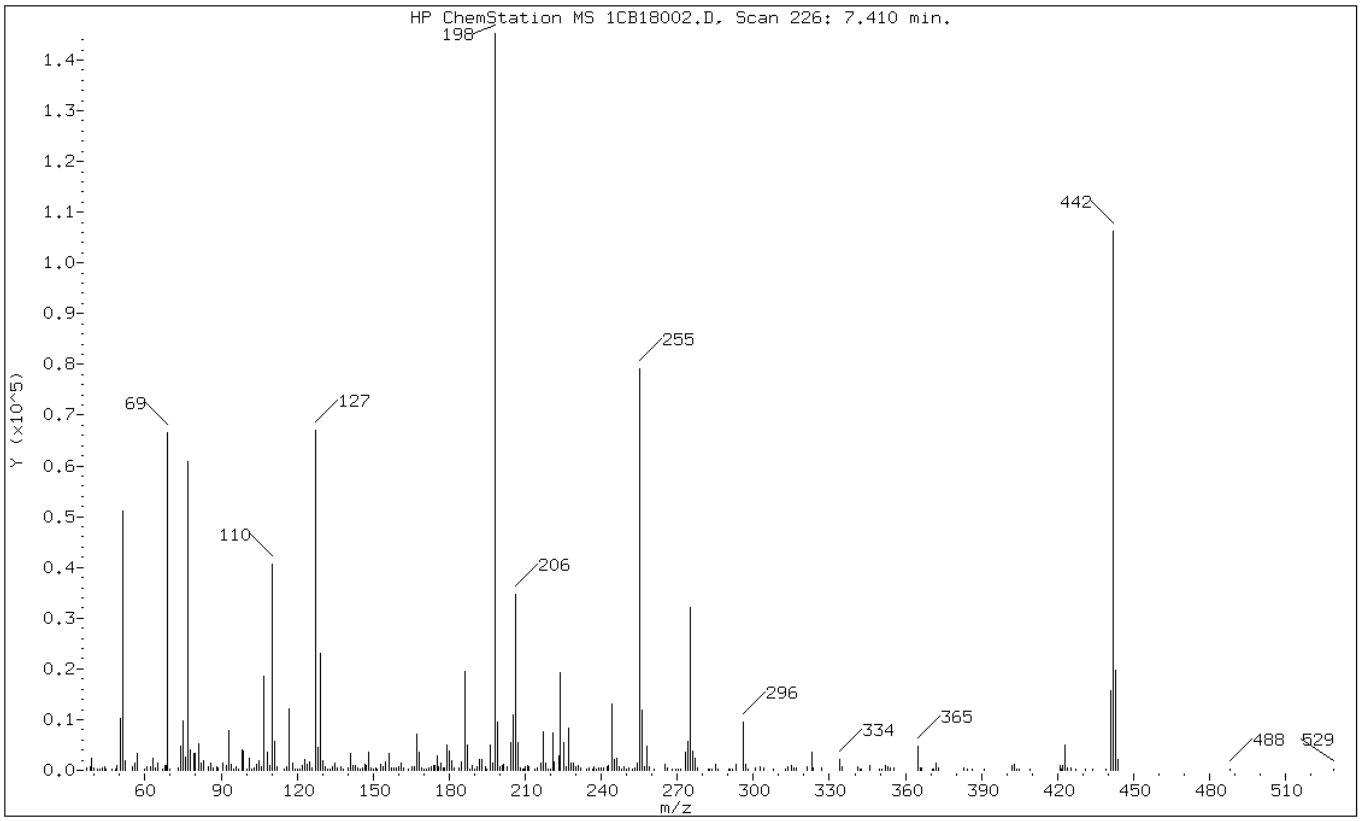
Data File: 1CB18002.D

Date: 18-FEB-2013 13:50

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	35.16
68	Less than 2.00% of mass 69	0.73 (1.61)
69	Mass 69 relative abundance	45.76
70	Less than 2.00% of mass 69	0.24 (0.53)
127	10.00 - 80.00% of mass 198	46.11
197	Less than 2.00% of mass 198	0.98
442	Greater than 50.00% of mass 198	73.13
199	5.00 - 9.00% of mass 198	6.53
275	10.00 - 60.00% of mass 198	22.09
365	Greater than 1.00% of mass 198	3.32
441	Present, but less than mass 443	10.81
443	15.00 - 24.00% of mass 442	13.55 (18.53)

Data File: 1CB18002.D

Date: 18-FEB-2013 13:50

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18002.D
Spectrum: HP ChemStation MS 1CB18002.D, Scan 226: 7.410 min.
Location of Maximum: 198.00
Number of points: 295

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	443	122.00	935	194.90	276	275.00	32072
38.20	600	123.10	2204	196.10	5040	276.10	3692
39.10	2391	123.90	1296	197.10	1418	277.00	2483
39.90	573	125.10	1742	198.00	145216	278.00	538
41.10	278	125.80	539	199.00	9488	282.10	201
42.00	154	127.10	66960	200.10	633	282.80	260
43.10	411	128.10	4509	201.20	1069	283.80	183
44.10	735	129.00	23144	201.50	1204	285.10	1204
44.70	238	130.00	1989	202.90	643	285.90	294
47.10	170	131.10	666	204.10	5487	290.10	240
48.20	235	131.90	356	205.10	10861	290.90	175
49.10	896	133.00	184	206.10	34616	291.80	277
50.10	10205	134.00	768	207.10	5565	293.10	1093
51.10	51064	135.00	1413	208.20	359	296.00	9534
52.10	1877	135.80	482	209.00	307	296.90	1133
54.90	674	137.20	686	209.70	193	298.10	214
56.00	1357	138.00	282	210.20	669	300.70	427
57.10	3399	140.00	384	211.00	951	302.90	671
59.90	199	141.10	3214	211.60	754	304.00	556
61.00	763	141.90	1049	213.80	156	307.80	320
62.20	685	142.90	852	214.90	446	312.70	334
63.10	2375	144.10	445	216.00	1332	313.80	711
64.10	397	145.10	217	217.00	7680	314.80	1005
65.00	1452	145.80	374	218.10	1422	316.00	501
66.90	159	146.70	1161	219.00	212	316.90	378
67.80	1067	147.20	1061	220.10	221	321.10	656
68.20	1051	148.10	3673	221.00	7334	323.10	3484
69.00	66456	149.00	454	221.60	1626	323.80	369
70.00	355	149.90	309	223.10	2849	327.10	506
73.00	513	150.30	201	224.00	19192	334.00	2065
74.20	4856	150.90	454	225.10	5369	335.10	649
75.00	9808	151.40	282	226.00	699	341.10	791
76.00	2640	153.00	1260	227.00	8322	342.00	240
77.10	60752	153.80	677	228.10	1355	342.80	249
78.10	4060	155.00	1702	229.00	1354	345.90	971
79.10	3373	156.10	3218	229.90	677	349.90	276
80.00	3260	157.10	454	231.00	927	350.80	152
81.10	5308	158.00	406	231.90	527	352.00	859
82.00	1396	159.00	390	234.00	308	352.90	603
83.20	1812	160.10	663	235.10	416	354.00	469

85.10	770	161.10	1476	236.60	264	355.20	416
86.00	1365	161.90	577	237.10	820	365.00	4814
87.10	520	163.80	319	237.80	154	365.70	373
88.10	621	165.10	682	239.00	504	366.20	391
88.90	553	166.20	816	239.80	522	370.50	172
90.90	1393	167.00	7078	240.70	461	371.10	154
92.00	1026	168.00	3589	241.10	291	372.00	1475
93.10	7947	168.90	484	242.10	820	373.00	474
94.00	1243	169.90	198	243.00	1054	382.90	401
95.00	281	171.10	189	244.10	13067	384.20	308
96.00	661	172.00	520	245.00	2206	386.10	193
96.90	153	173.00	741	246.10	2260	391.10	237
98.10	3999	173.80	869	247.10	636	402.00	859
99.00	3764	174.40	946	248.10	230	402.90	1196
100.00	253	175.10	2826	248.90	616	404.00	213
101.00	2429	175.80	743	249.90	275	405.00	218
102.00	314	176.90	1474	251.10	387	409.30	211
103.10	476	177.70	433	252.20	325	420.80	878
104.00	1192	178.10	415	253.10	484	421.60	293
105.00	1945	179.00	4960	254.00	1378	422.00	944
106.00	649	180.10	3833	255.00	79224	423.00	5039
107.10	18440	181.10	1818	256.00	11788	423.90	582
108.10	3652	182.00	398	256.90	712	425.20	437
109.10	866	184.00	442	258.10	4754	427.10	184
110.10	40592	185.00	1736	259.00	699	431.10	267
111.10	5721	186.10	19456	260.90	184	434.00	215
112.00	679	187.00	4992	265.00	1160	439.10	271
114.90	189	187.90	187	266.00	393	441.10	15700
115.90	641	189.00	854	268.00	282	442.00	106200
117.00	12171	190.20	198	269.20	194	443.00	19680
118.10	1328	191.10	617	270.40	173	444.00	2067
119.20	185	192.10	2115	271.30	174	488.10	181
120.10	196	193.10	2066	273.00	3560	528.90	172
121.00	153	194.10	768	274.00	5743		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: | Lab Sample ID: MB 660-134455/1-A

Matrix: Solid | Lab File ID: 1AB15008.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.15(g) | Date Analyzed: 02/15/2013 15:52

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.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.1
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	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15008.D
Lab Smp Id: mb 660-134455/1-a
Inj Date : 15-FEB-2013 15:52
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-134455/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.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	15.150	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

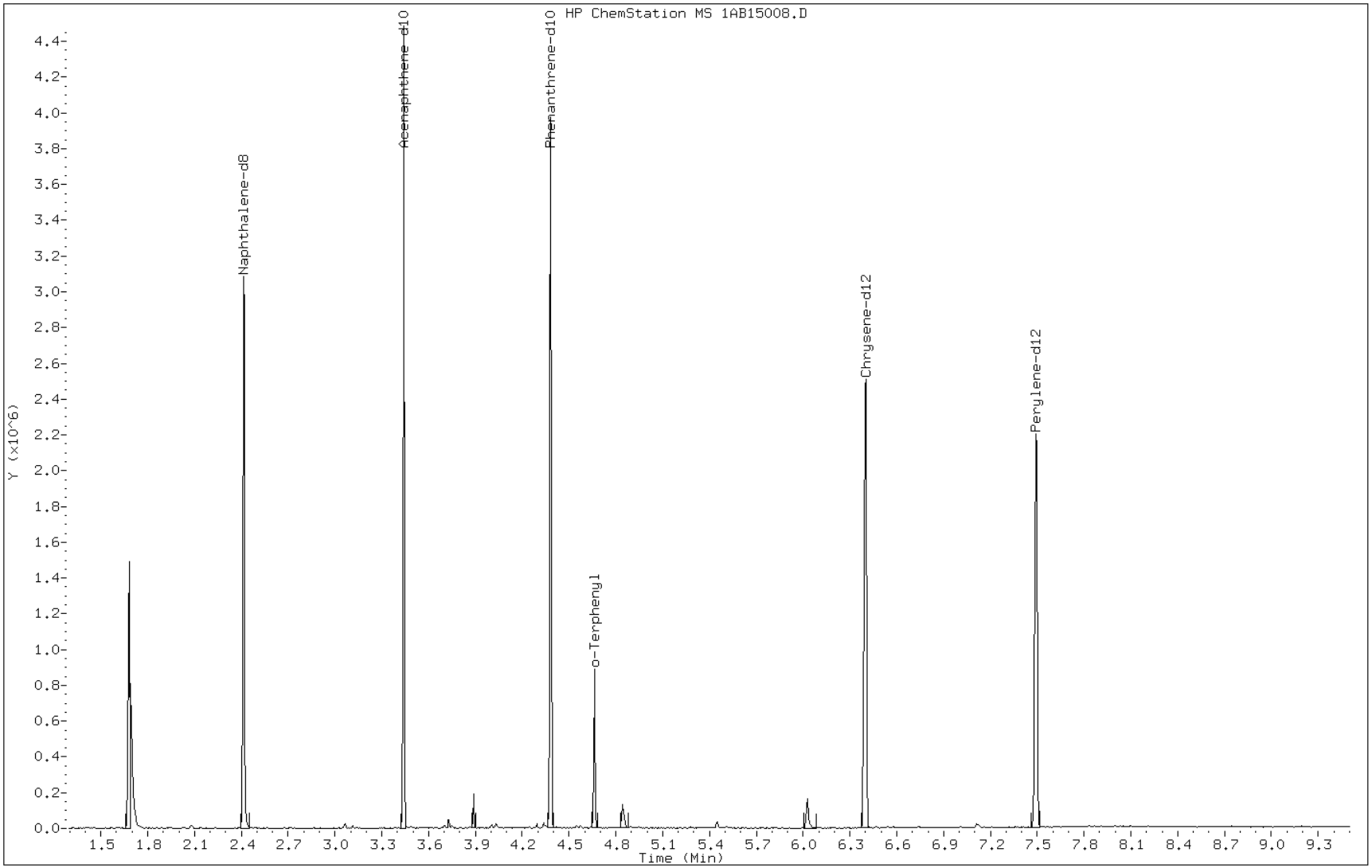
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.412	2.415	(1.000)	1027824	40.0000	
* 6 Acenaphthene-d10	164	3.443	3.441	(1.000)	716597	40.0000	
* 10 Phenanthrene-d10	188	4.383	4.386	(1.000)	1014397	40.0000	
$ 14 o-Terphenyl	230	4.661	4.664	(1.063)	130646	8.86353	585.0513
* 18 Chrysene-d12	240	6.402	6.411	(1.000)	843677	40.0000	
* 23 Perylene-d12	264	7.498	7.501	(1.000)	853259	40.0000	

Data File: 1AB15008.D

Date: 15-FEB-2013 15:52

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-134455/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: | Lab Sample ID: MB 660-134472/1-A

Matrix: Solid | Lab File ID: 1CB15008.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.10(g) | Date Analyzed: 02/15/2013 13:20

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.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	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	74		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15008.D
Lab Smp Id: mb 660-134472/1-a
Inj Date : 15-FEB-2013 13:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134472/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 8 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	15.100	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

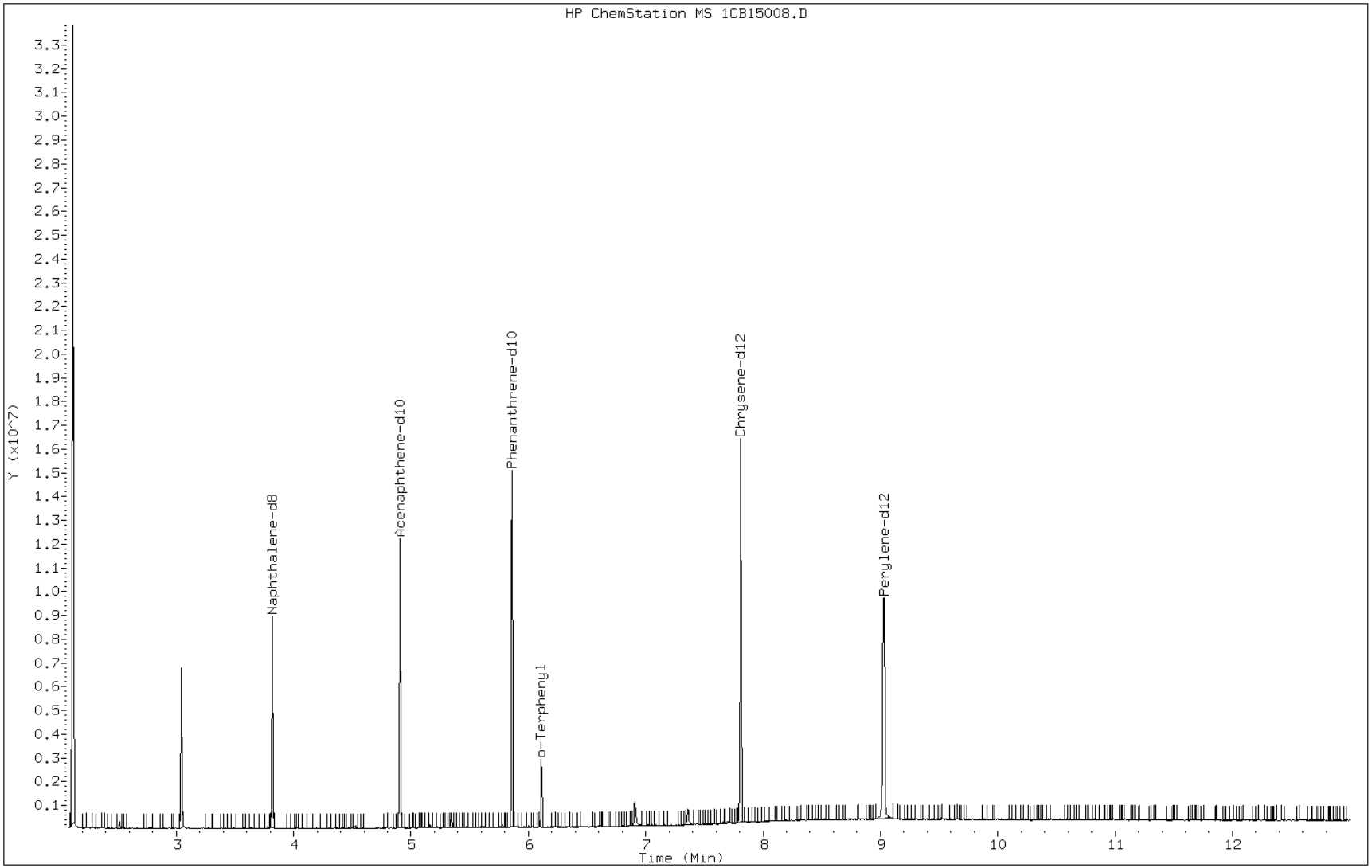
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2663358	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	2068260	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3931766	40.0000	
$ 14 o-Terphenyl	230	6.109	6.115	(1.042)	423645	7.35375	487.0035
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	4251050	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	4056698	40.0000	

Data File: 1CB15008.D

Date: 15-FEB-2013 13:20

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134472/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87318-1
SDG No.: 68087318-1
Client Sample ID:
Lab Sample ID: LCS 660-134455/2-A
Matrix: Solid
Lab File ID: 1AB15009.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/14/2013 08:35
Sample wt/vol: 15.14(g)
Date Analyzed: 02/15/2013 16:07
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.: 134532
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	415		99	20
208-96-8	Acenaphthylene	416		40	5.0
120-12-7	Anthracene	452		8.3	4.2
56-55-3	Benzo[a]anthracene	532		7.9	3.9
50-32-8	Benzo[a]pyrene	467		10	5.2
205-99-2	Benzo[b]fluoranthene	483		12	6.0
191-24-2	Benzo[g,h,i]perylene	507		20	4.4
207-08-9	Benzo[k]fluoranthene	502		7.9	3.6
218-01-9	Chrysene	487		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	491		20	4.1
206-44-0	Fluoranthene	485		20	4.0
86-73-7	Fluorene	426		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	552		20	7.0
90-12-0	1-Methylnaphthalene	458		40	4.4
91-57-6	2-Methylnaphthalene	492		40	7.0
91-20-3	Naphthalene	446		40	4.4
85-01-8	Phenanthrene	452		7.9	3.9
129-00-0	Pyrene	440		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15009.D
Lab Smp Id: lcs 660-134455/2-a
Inj Date : 15-FEB-2013 16:07
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-134455/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.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	15.140	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	2.416	2.415	(1.000)	987109	40.0000	
* 6 Acenaphthene-d10	164	3.441	3.441	(1.000)	666683	40.0000	
* 10 Phenanthrene-d10	188	4.381	4.386	(1.000)	1000324	40.0000	
$ 14 o-Terphenyl	230	4.665	4.664	(1.065)	109496	7.53314	497.5653
* 18 Chrysene-d12	240	6.401	6.411	(1.000)	831616	40.0000	
* 23 Perylene-d12	264	7.496	7.501	(1.000)	824033	40.0000	
2 Naphthalene	128	2.426	2.426	(1.004)	161909	6.75763	446.3426
3 2-Methylnaphthalene	141	2.827	2.832	(1.170)	95642	7.45133	492.1616
4 1-Methylnaphthalene	142	2.886	2.885	(1.195)	100646	6.92687	457.5211
5 Acenaphthylene	152	3.356	3.355	(0.975)	185240	6.29266	415.6313
7 Acenaphthene	154	3.457	3.462	(1.005)	100101	6.28268	414.9722
9 Fluorene	166	3.767	3.772	(1.095)	129206	6.44928	425.9759
11 Phenanthrene	178	4.397	4.402	(1.004)	186819	6.83990	451.7768
12 Anthracene	178	4.430	4.434	(1.011)	190707	6.84830	452.3316

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.584	4.589	(1.046)	158862	6.65518	439.5757
15 Fluoranthene	202	5.258	5.262	(1.200)	198676	7.33683	484.5989
16 Pyrene	202	5.429	5.433	(0.848)	200069	6.66146	439.9909
17 Benzo(a)anthracene	228	6.390	6.395	(0.998)	199876	8.04948	531.6697
19 Chrysene	228	6.417	6.427	(1.002)	178335	7.36823	486.6728
20 Benzo(b)fluoranthene	252	7.218	7.217	(0.963)	168015	7.30533	482.5186
21 Benzo(k)fluoranthene	252	7.234	7.239	(0.965)	182695	7.59768	501.8279
22 Benzo(a)pyrene	252	7.448	7.452	(0.994)	154376	7.06845	466.8727
24 Indeno(1,2,3-cd)pyrene	276	8.228	8.238	(1.098)	144234	8.36352	552.4122(M)
25 Dibenzo(a,h)anthracene	278	8.244	8.254	(1.100)	128059	7.42776	490.6048
26 Benzo(g,h,i)perylene	276	8.436	8.446	(1.125)	137143	7.67603	507.0030

QC Flag Legend

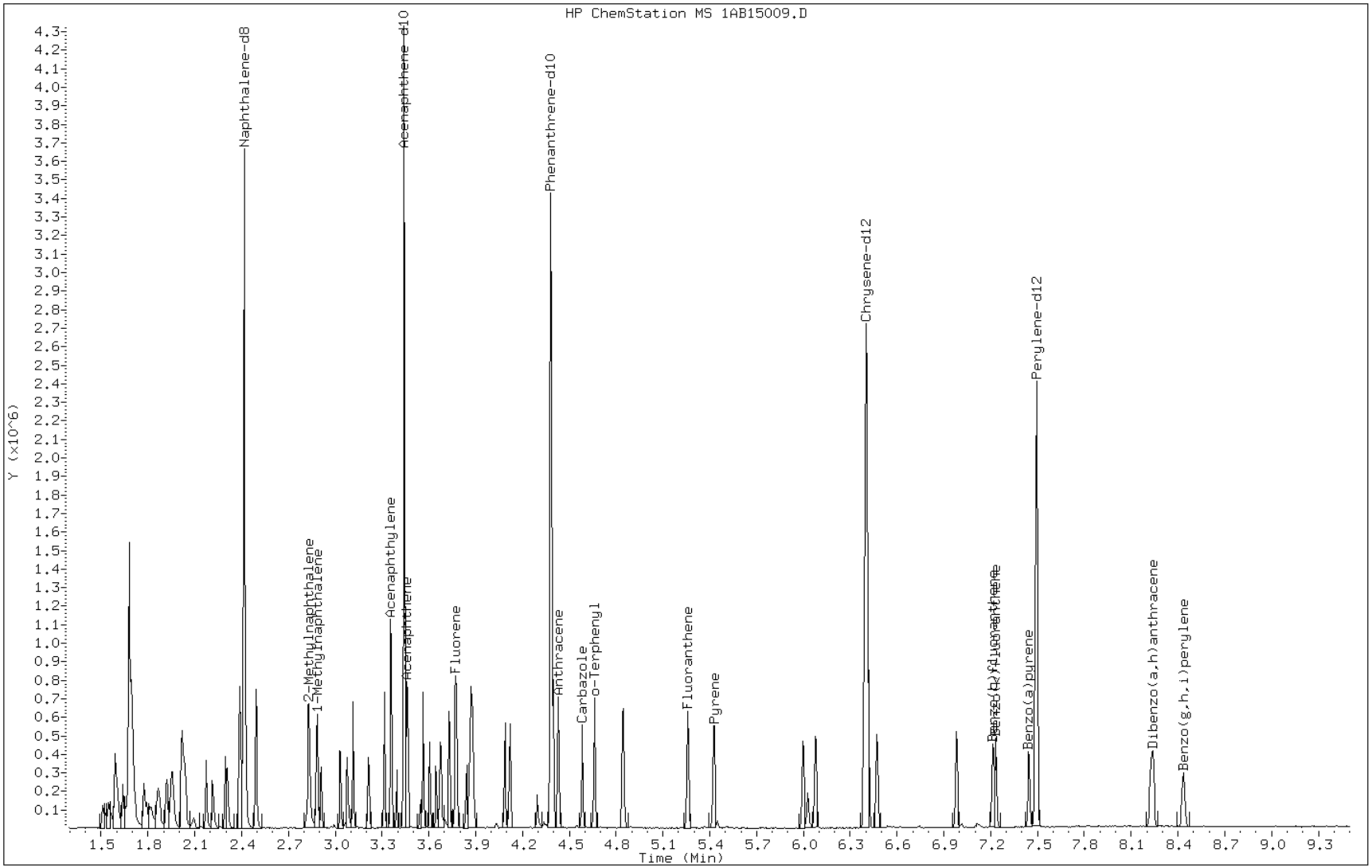
M - Compound response manually integrated.

Data File: 1AB15009.D

Date: 15-FEB-2013 16:07

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-134455/2-a Operator: SCC



Manual Integration Report

Data File: 1AB15009.D
Inj. Date and Time: 15-FEB-2013 16:07
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

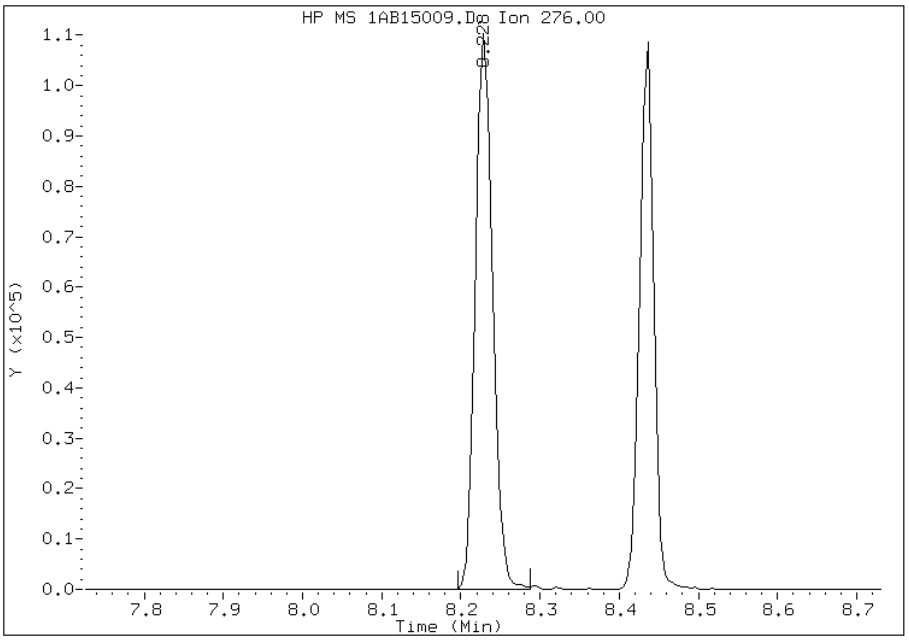
Processing Integration Results

RT: 8.23

Response: 165140

Amount: 10

Conc: 632



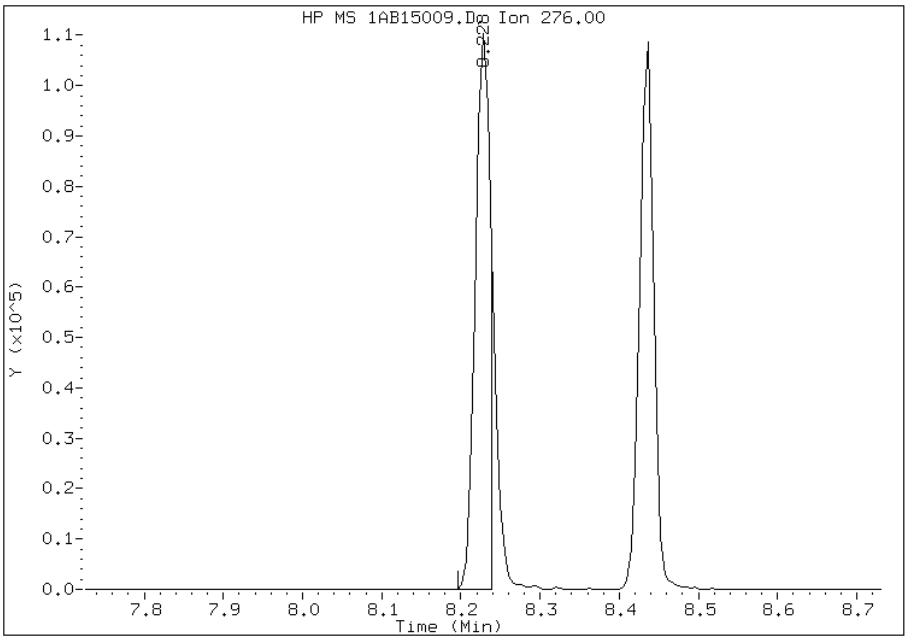
Manual Integration Results

RT: 8.23

Response: 144234

Amount: 8

Conc: 552



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87318-1
SDG No.: 68087318-1
Client Sample ID:
Lab Sample ID: LCS 660-134472/2-A
Matrix: Solid
Lab File ID: 1CB15009.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/14/2013 11:19
Sample wt/vol: 15.26(g)
Date Analyzed: 02/15/2013 13:38
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.: 134530
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	485		98	20
208-96-8	Acenaphthylene	498		39	4.9
120-12-7	Anthracene	509		8.3	4.1
56-55-3	Benzo[a]anthracene	507		7.9	3.8
50-32-8	Benzo[a]pyrene	502		10	5.1
205-99-2	Benzo[b]fluoranthene	521		12	6.0
191-24-2	Benzo[g,h,i]perylene	463		20	4.3
207-08-9	Benzo[k]fluoranthene	508		7.9	3.5
218-01-9	Chrysene	462		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	453		20	4.0
206-44-0	Fluoranthene	524		20	3.9
86-73-7	Fluorene	489		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	420		20	7.0
90-12-0	1-Methylnaphthalene	525		39	4.3
91-57-6	2-Methylnaphthalene	478		39	7.0
91-20-3	Naphthalene	481		39	4.3
85-01-8	Phenanthrene	460		7.9	3.8
129-00-0	Pyrene	538		20	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15009.D
Lab Smp Id: lcs 660-134472/2-a
Inj Date : 15-FEB-2013 13:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134472/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 9 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	15.260	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	3.821	(1.000)	2307582	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1791084	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3388620	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	373587	7.52426	493.0705
* 18 Chrysene-d12	240	7.810	7.815	(1.000)	3830695	40.0000	
* 23 Perylene-d12	264	9.027	9.039	(1.000)	3622690	40.0000	
2 Naphthalene	128	3.833	3.833	(1.005)	448532	7.33520	480.6813
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	290265	7.30046	478.4047
4 1-Methylnaphthalene	142	4.322	4.321	(1.133)	289600	8.00862	524.8113
5 Acenaphthylene	152	4.822	4.821	(0.982)	542000	7.60628	498.4459
7 Acenaphthene	154	4.927	4.927	(1.004)	330933	7.40486	485.2463
9 Fluorene	166	5.245	5.245	(1.068)	428077	7.46192	488.9856
11 Phenanthrene	178	5.874	5.880	(1.002)	710155	7.02095	460.0883
12 Anthracene	178	5.910	5.910	(1.008)	707432	7.76279	508.7016

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	(1.026)	652101	8.23792	539.8376
15 Fluoranthene	202	6.716	6.721	(1.145)	791067	8.00386	524.4995
16 Pyrene	202	6.886	6.886	(0.882)	836953	8.20683	537.8003
17 Benzo(a)anthracene	228	7.798	7.804	(0.998)	816615	7.73041	506.5799
19 Chrysene	228	7.827	7.833	(1.002)	768534	7.04320	461.5467
20 Benzo(b)fluoranthene	252	8.662	8.674	(0.960)	706410	7.95359	521.2048
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	759166	7.75875	508.4372
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	647771	7.66467	502.2717
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.262	(1.135)	520130	6.40761	419.8956(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.280	(1.137)	529179	6.91300	453.0146
26 Benzo(g,h,i)perylene	276	10.615	10.633	(1.176)	582036	7.05871	462.5631

QC Flag Legend

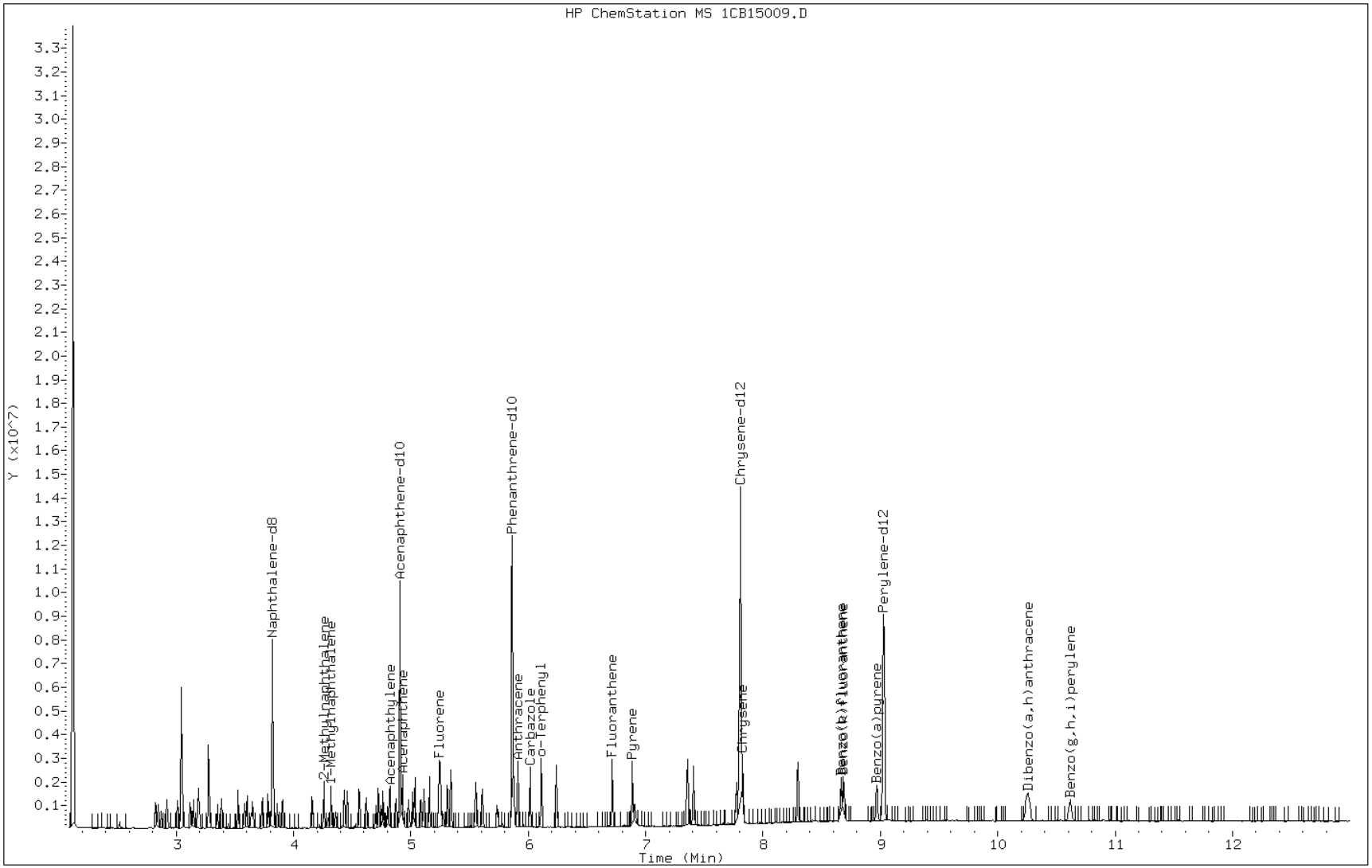
M - Compound response manually integrated.

Data File: 1CB15009.D

Date: 15-FEB-2013 13:38

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-134472/2-a Operator: SCC



Manual Integration Report

Data File: 1CB15009.D
Inj. Date and Time: 15-FEB-2013 13:38
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

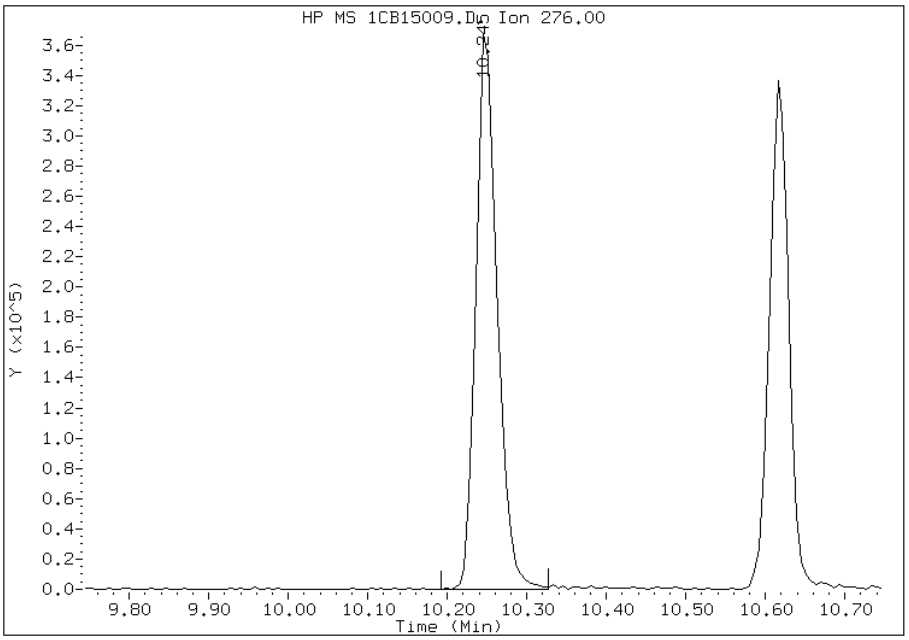
Processing Integration Results

RT: 10.25

Response: 679351

Amount: 8

Conc: 548



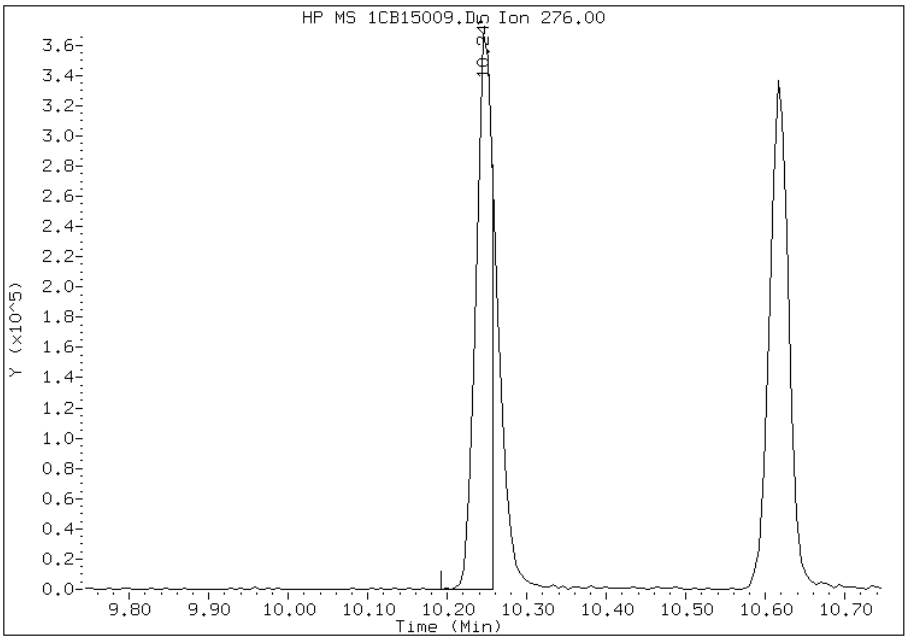
Manual Integration Results

RT: 10.25

Response: 520130

Amount: 6

Conc: 420



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87318-1
SDG No.: 68087318-1
Client Sample ID:
Lab Sample ID: 680-87279-A-21-B MS
Matrix: Solid
Lab File ID: 1CB15011.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/14/2013 11:19
Sample wt/vol: 15.13(g)
Date Analyzed: 02/15/2013 14:14
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 7.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134530
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	485		110	21
208-96-8	Acenaphthylene	502		43	5.3
120-12-7	Anthracene	505		9.0	4.5
56-55-3	Benzo[a]anthracene	556		8.5	4.2
50-32-8	Benzo[a]pyrene	533		11	5.5
205-99-2	Benzo[b]fluoranthene	619		13	6.5
191-24-2	Benzo[g,h,i]perylene	489		21	4.7
207-08-9	Benzo[k]fluoranthene	475		8.5	3.8
218-01-9	Chrysene	516		9.6	4.8
53-70-3	Dibenz(a,h)anthracene	462		21	4.4
206-44-0	Fluoranthene	602		21	4.3
86-73-7	Fluorene	480		21	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	470		21	7.6
90-12-0	1-Methylnaphthalene	540		43	4.7
91-57-6	2-Methylnaphthalene	503		43	7.6
91-20-3	Naphthalene	470		43	4.7
85-01-8	Phenanthrene	501		8.5	4.2
129-00-0	Pyrene	622		21	3.9

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\1C021513.b\1CB15011.D
Lab Smp Id: 680-87279-a-21-b ms
Inj Date : 15-FEB-2013 14:14
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87279-a-21-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.821	(1.000)	2438858	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.910	(1.000)	1896166	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3573845	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	373817	7.13868	471.8229
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3794962	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3691062	40.0000	
2 Naphthalene	128	3.833	3.833	(1.005)	427420	6.61369	437.1242
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	297496	7.07957	467.9162
4 1-Methylnaphthalene	142	4.321	4.321	(1.133)	290390	7.59821	502.1952
5 Acenaphthylene	152	4.821	4.821	(0.983)	533019	7.06571	466.9997
7 Acenaphthene	154	4.927	4.927	(1.005)	322639	6.81920	450.7069
9 Fluorene	166	5.245	5.245	(1.070)	410304	6.75576	446.5140
11 Phenanthrene	178	5.874	5.880	(1.002)	750955	7.03953	465.2697
12 Anthracene	178	5.910	5.910	(1.008)	682410	7.10012	469.2740

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	(1.026)	598609	7.17023	473.9083
15 Fluoranthene	202	6.715	6.721	(1.145)	882615	8.46730	559.6363
16 Pyrene	202	6.886	6.886	(0.882)	883504	8.74487	577.9819
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	818912	7.82515	517.1941
19 Chrysene	228	7.827	7.833	(1.002)	784615	7.25828	479.7279
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	787825	8.70594	575.4092
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	666351	6.68402	441.7729
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	645341	7.49447	495.3383
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	546742	6.61068	436.9254(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	506337	6.49208	429.0863
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	578180	6.88206	454.8619

QC Flag Legend

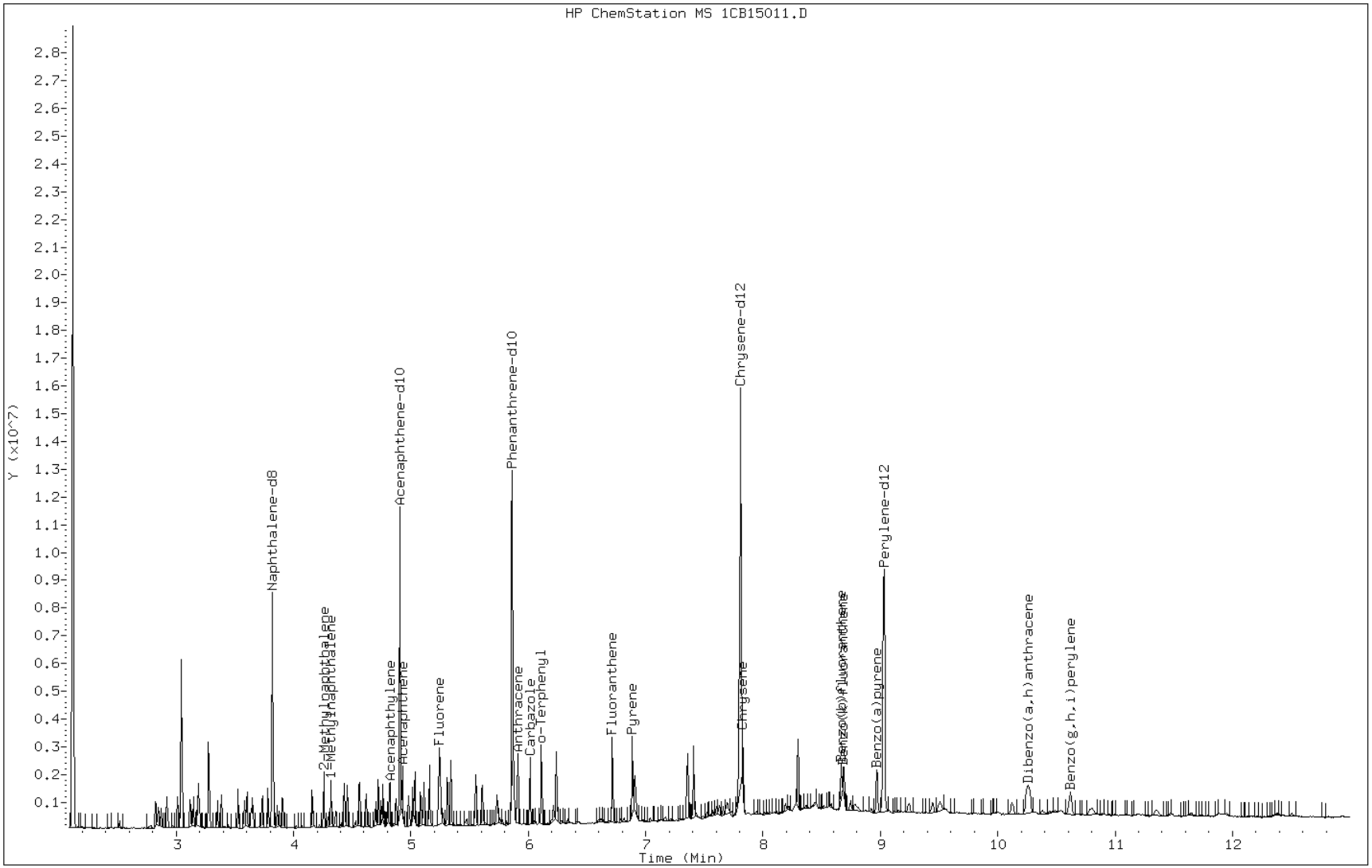
M - Compound response manually integrated.

Data File: 1CB15011.D

Date: 15-FEB-2013 14:14

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87279-a-21-b ms Operator: SCC



Manual Integration Report

Data File: 1CB15011.D
Inj. Date and Time: 15-FEB-2013 14:14
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

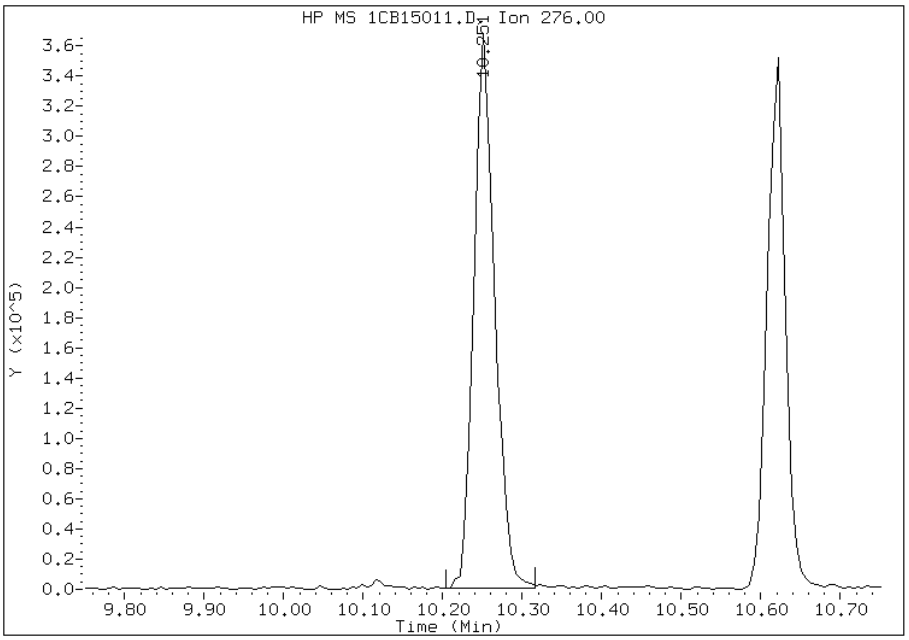
Processing Integration Results

RT: 10.25

Response: 666963

Amount: 8

Conc: 533



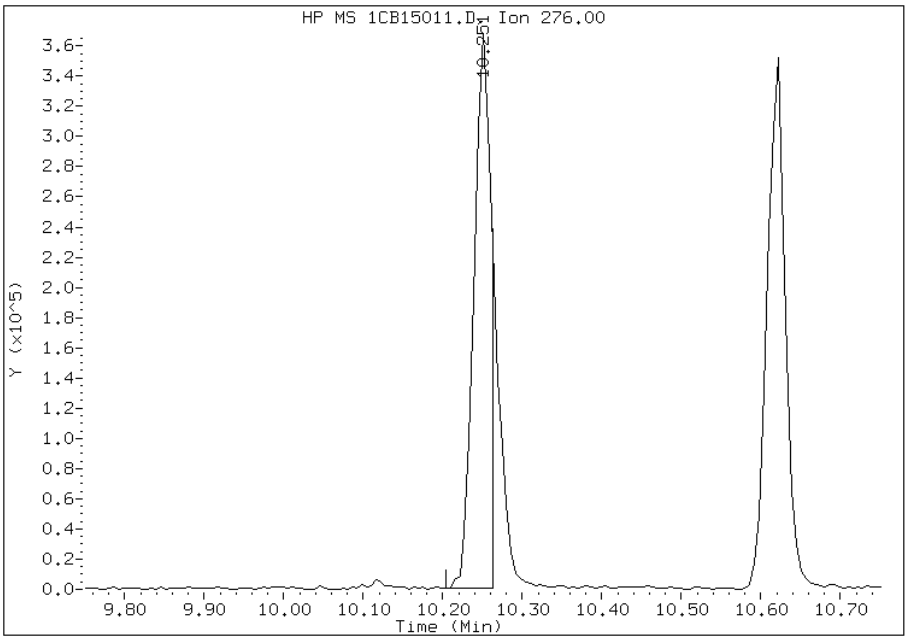
Manual Integration Results

RT: 10.25

Response: 546742

Amount: 7

Conc: 437



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005C-CS MS | Lab Sample ID: 680-87318-4 MS

Matrix: Solid | Lab File ID: 1AB15029.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 10:23

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.02(g) | Date Analyzed: 02/15/2013 21:09

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

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

% Moisture: 8.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	539		110	22
208-96-8	Acenaphthylene	562		43	5.4
120-12-7	Anthracene	608		9.1	4.6
56-55-3	Benzo[a]anthracene	747		8.7	4.2
50-32-8	Benzo[a]pyrene	529		11	5.6
205-99-2	Benzo[b]fluoranthene	668		13	6.6
191-24-2	Benzo[g,h,i]perylene	594		22	4.8
207-08-9	Benzo[k]fluoranthene	479		8.7	3.9
218-01-9	Chrysene	565		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	585		22	4.5
206-44-0	Fluoranthene	634		22	4.3
86-73-7	Fluorene	570		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	666		22	7.7
90-12-0	1-Methylnaphthalene	677		43	4.8
91-57-6	2-Methylnaphthalene	690		43	7.7
91-20-3	Naphthalene	623		43	4.8
85-01-8	Phenanthrene	695		8.7	4.2
129-00-0	Pyrene	531		22	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15029.D
Lab Smp Id: 680-87318-a-4-b ms
Inj Date : 15-FEB-2013 21:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-4-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 26 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	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	2.420	2.415	(1.000)	844502	40.0000	
* 6 Acenaphthene-d10	164	3.446	3.441	(1.000)	574517	40.0000	
* 10 Phenanthrene-d10	188	4.391	4.386	(1.000)	848467	40.0000	
$ 14 o-Terphenyl	230	4.669	4.664	(1.063)	99152	8.04239	535.4452
* 18 Chrysene-d12	240	6.421	6.411	(1.000)	690943	40.0000	
* 23 Perylene-d12	264	7.522	7.501	(1.000)	862071	40.0000	
2 Naphthalene	128	2.431	2.426	(1.004)	176315	8.60156	572.6734
3 2-Methylnaphthalene	141	2.831	2.832	(1.170)	104677	9.53237	634.6448
4 1-Methylnaphthalene	142	2.890	2.885	(1.194)	116338	9.35894	623.0983
5 Acenaphthylene	152	3.360	3.355	(0.975)	196816	7.75847	516.5428
7 Acenaphthene	154	3.467	3.462	(1.006)	102195	7.44308	495.5446
9 Fluorene	166	3.777	3.772	(1.096)	135922	7.87290	524.1608
11 Phenanthrene	178	4.407	4.402	(1.004)	222359	9.59819	639.0271
12 Anthracene	178	4.439	4.434	(1.011)	198467	8.40253	559.4229

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.594	4.589	(1.046)	154060	7.60913	506.6001
15 Fluoranthene	202	5.273	5.262	(1.201)	201191	8.75946	583.1862
16 Pyrene	202	5.438	5.433	(0.847)	183065	7.33628	488.4339
17 Benzo(a)anthracene	228	6.411	6.395	(0.998)	212898	10.3195	687.0517
19 Chrysene	228	6.437	6.427	(1.002)	156942	7.80452	519.6084
20 Benzo(b)fluoranthene	252	7.239	7.217	(0.962)	221960	9.22504	614.1836
21 Benzo(k)fluoranthene	252	7.255	7.239	(0.964)	166464	6.61723	440.5609
22 Benzo(a)pyrene	252	7.468	7.452	(0.993)	167078	7.31249	486.8503
24 Indeno(1,2,3-cd)pyrene	276	8.270	8.238	(1.099)	165990	9.20036	612.5408(M)
25 Dibenzo(a,h)anthracene	278	8.275	8.254	(1.100)	145752	8.08097	538.0142
26 Benzo(g,h,i)perylene	276	8.478	8.446	(1.127)	153365	8.20523	546.2868

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AB15029.D

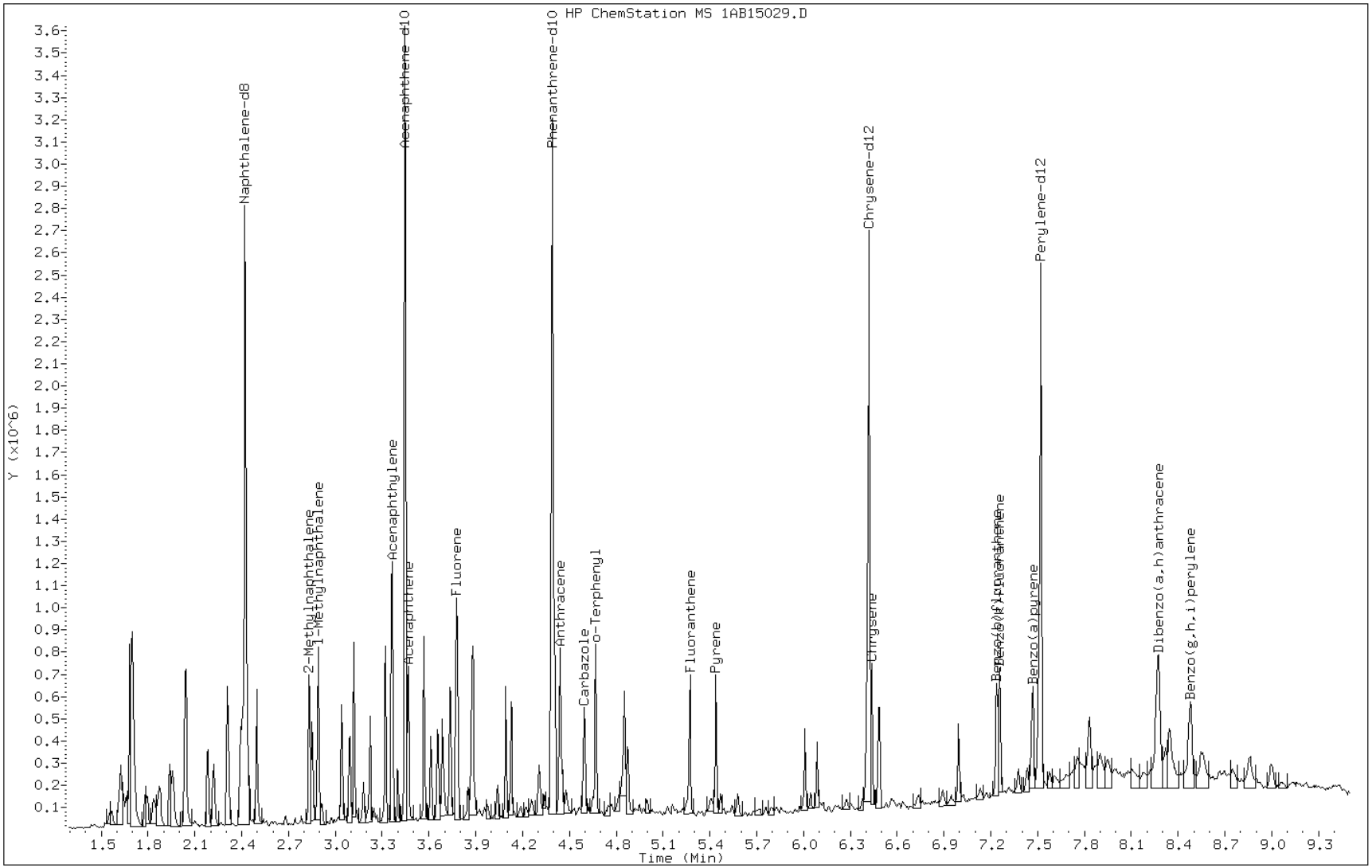
Date: 15-FEB-2013 21:09

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-87318-a-4-b ms

Operator: SCC



Manual Integration Report

Data File: 1AB15029.D
Inj. Date and Time: 15-FEB-2013 21:09
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

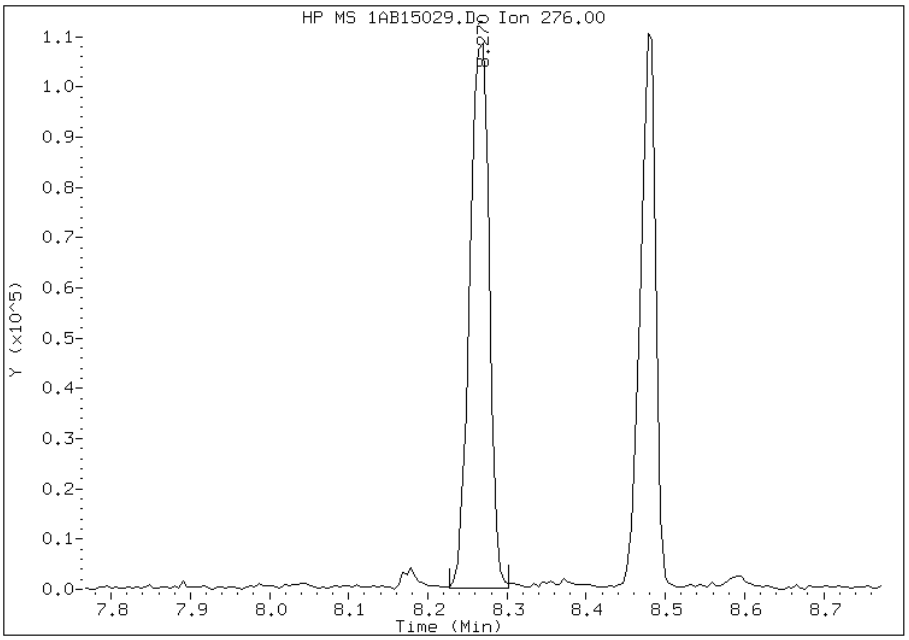
Processing Integration Results

RT: 8.27

Response: 183793

Amount: 10

Conc: 678



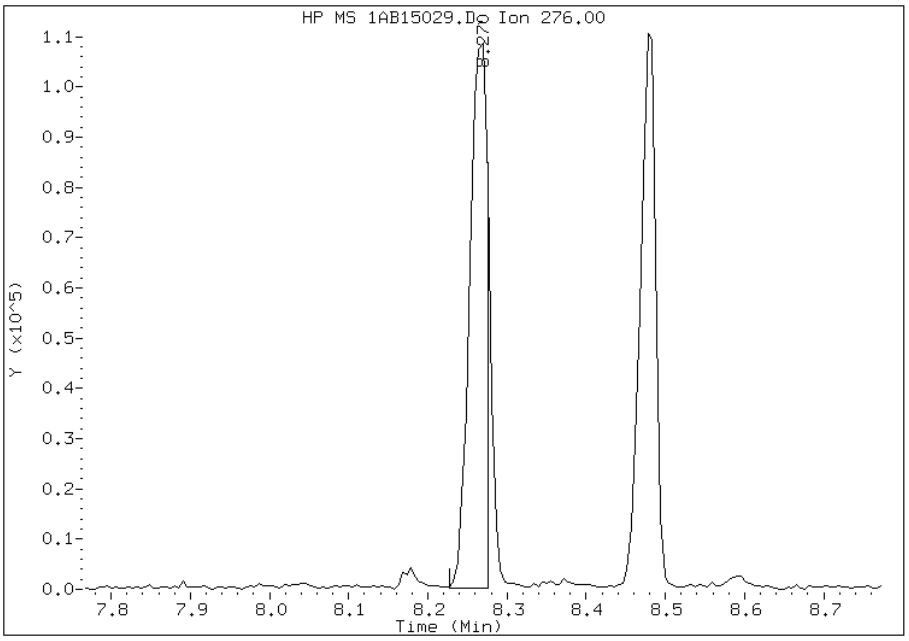
Manual Integration Results

RT: 8.27

Response: 165990

Amount: 9

Conc: 613



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87318-1
SDG No.: 68087318-1
Client Sample ID:
Lab Sample ID: 680-87279-A-21-C MSD
Matrix: Solid
Lab File ID: 1CB15012.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/14/2013 11:19
Sample wt/vol: 15.13(g)
Date Analyzed: 02/15/2013 14:33
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 7.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134530
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	482		110	21
208-96-8	Acenaphthylene	524		43	5.3
120-12-7	Anthracene	516		9.0	4.5
56-55-3	Benzo[a]anthracene	536		8.5	4.2
50-32-8	Benzo[a]pyrene	517		11	5.5
205-99-2	Benzo[b]fluoranthene	556		13	6.5
191-24-2	Benzo[g,h,i]perylene	478		21	4.7
207-08-9	Benzo[k]fluoranthene	557		8.5	3.8
218-01-9	Chrysene	492		9.6	4.8
53-70-3	Dibenz(a,h)anthracene	460		21	4.4
206-44-0	Fluoranthene	587		21	4.3
86-73-7	Fluorene	492		21	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	464		21	7.6
90-12-0	1-Methylnaphthalene	546		43	4.7
91-57-6	2-Methylnaphthalene	529		43	7.6
91-20-3	Naphthalene	493		43	4.7
85-01-8	Phenanthrene	486		8.5	4.2
129-00-0	Pyrene	595		21	3.9

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\1C021513.b\1CB15012.D
Lab Smp Id: 680-87279-a-21-c ms
Inj Date : 15-FEB-2013 14:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87279-a-21-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 12 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2500394	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1945760	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3614241	40.0000	
$ 14 o-Terphenyl	230	6.109	6.115	(1.042)	382583	7.22442	477.4900
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3979657	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3723416	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	459312	6.93226	458.1797
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	320692	7.44376	491.9865
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	301007	7.68218	507.7449
5 Acenaphthylene	152	4.821	4.821	(0.982)	570914	7.37515	487.4518
7 Acenaphthene	154	4.927	4.927	(1.004)	328790	6.77208	447.5927
9 Fluorene	166	5.245	5.245	(1.068)	431247	6.91961	457.3435
11 Phenanthrene	178	5.874	5.880	(1.002)	737863	6.83950	452.0486
12 Anthracene	178	5.909	5.910	(1.008)	704874	7.25187	479.3042

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	(1.026)	625284	7.40604	489.4936
15 Fluoranthene	202	6.715	6.721	(1.145)	870047	8.25344	545.5014
16 Pyrene	202	6.886	6.886	(0.882)	886107	8.36359	552.7818
17 Benzo(a)anthracene	228	7.798	7.804	(0.998)	827584	7.54100	498.4139
19 Chrysene	228	7.827	7.833	(1.002)	784835	6.92337	457.5921
20 Benzo(b)fluoranthene	252	8.662	8.674	(0.959)	713924	7.82074	516.9027
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	787918	7.83476	517.8295
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	631825	7.27375	480.7499
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	543948	6.51975	430.9154(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	508947	6.46884	427.5504
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	569755	6.72285	444.3390

QC Flag Legend

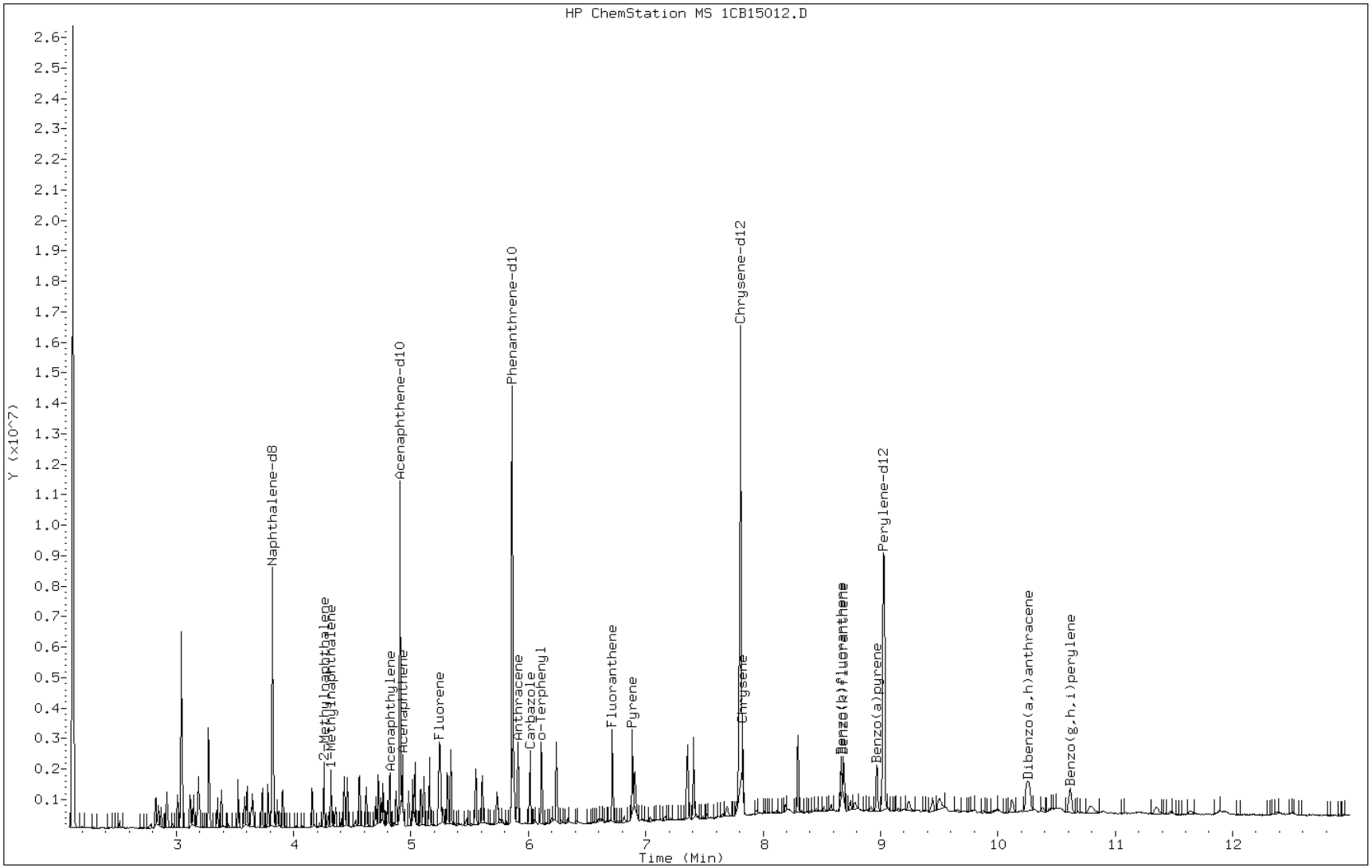
M - Compound response manually integrated.

Data File: 1CB15012.D

Date: 15-FEB-2013 14:33

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87279-a-21-c msd Operator: SCC



Manual Integration Report

Data File: 1CB15012.D
Inj. Date and Time: 15-FEB-2013 14:33
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

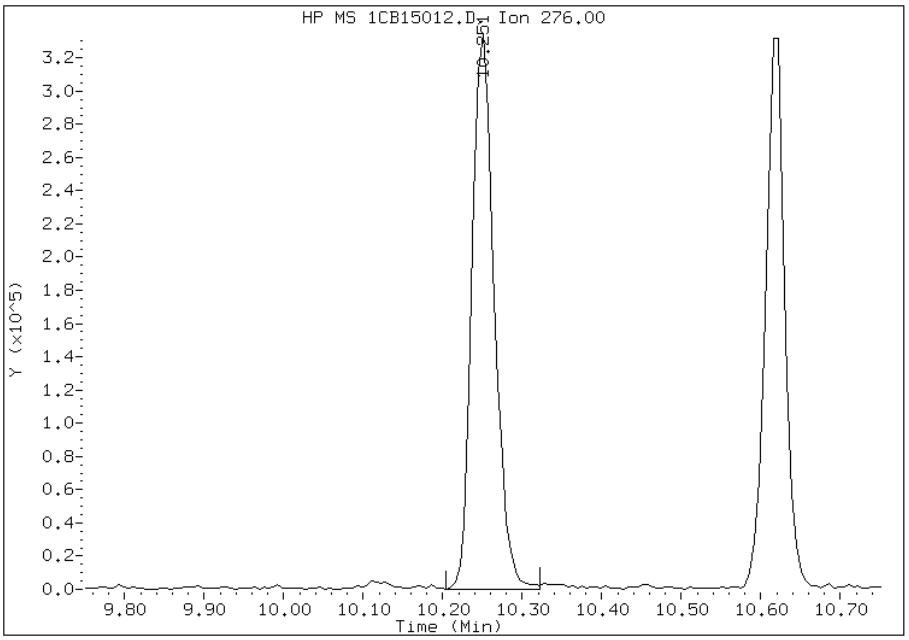
Processing Integration Results

RT: 10.25

Response: 648163

Amount: 8

Conc: 513



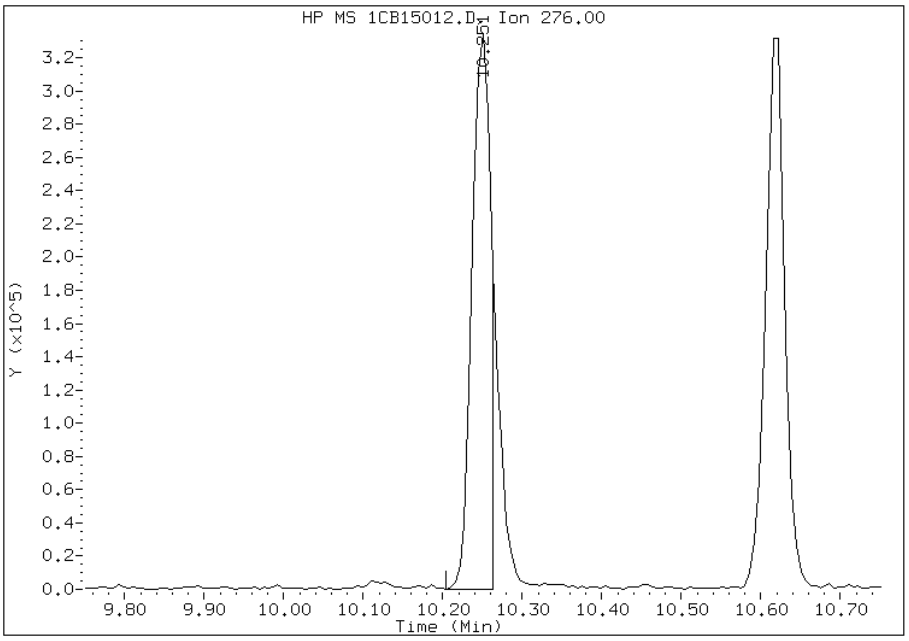
Manual Integration Results

RT: 10.25

Response: 543948

Amount: 7

Conc: 431



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-1

SDG No.: 68087318-1

Client Sample ID: CV0005C-CS MSD | Lab Sample ID: 680-87318-4 MSD

Matrix: Solid | Lab File ID: 1AB15030.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 10:23

Extract. Method: 3546 | Date Extracted: 02/14/2013 08:35

Sample wt/vol: 15.02(g) | Date Analyzed: 02/15/2013 21:24

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

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

% Moisture: 8.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	451		110	22
208-96-8	Acenaphthylene	463		43	5.4
120-12-7	Anthracene	520		9.1	4.6
56-55-3	Benzo[a]anthracene	638		8.7	4.2
50-32-8	Benzo[a]pyrene	466		11	5.6
205-99-2	Benzo[b]fluoranthene	511		13	6.6
191-24-2	Benzo[g,h,i]perylene	511		22	4.8
207-08-9	Benzo[k]fluoranthene	444		8.7	3.9
218-01-9	Chrysene	549		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	500		22	4.5
206-44-0	Fluoranthene	585		22	4.3
86-73-7	Fluorene	483		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	555		22	7.7
90-12-0	1-Methylnaphthalene	539		43	4.8
91-57-6	2-Methylnaphthalene	562		43	7.7
91-20-3	Naphthalene	515		43	4.8
85-01-8	Phenanthrene	604		8.7	4.2
129-00-0	Pyrene	522		22	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15030.D
Lab Smp Id: 680-87318-a-4-c msd
Inj Date : 15-FEB-2013 21:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-4-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 27 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	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	2.423	2.415	(1.000)	823905	40.0000	
* 6 Acenaphthene-d10	164	3.449	3.441	(1.000)	571804	40.0000	
* 10 Phenanthrene-d10	188	4.394	4.386	(1.000)	852354	40.0000	
$ 14 o-Terphenyl	230	4.672	4.664	(1.063)	87151	7.03673	468.4906
* 18 Chrysene-d12	240	6.419	6.411	(1.000)	653192	40.0000	
* 23 Perylene-d12	264	7.525	7.501	(1.000)	886175	40.0000	
2 Naphthalene	128	2.434	2.426	(1.004)	142227	7.11203	473.5037
3 2-Methylnaphthalene	141	2.834	2.832	(1.170)	83221	7.76794	517.1731
4 1-Methylnaphthalene	142	2.893	2.885	(1.194)	90282	7.44440	495.6324
5 Acenaphthylene	152	3.363	3.355	(0.975)	161353	6.39070	425.4795
7 Acenaphthene	154	3.465	3.462	(1.005)	85188	6.23386	415.0374
9 Fluorene	166	3.774	3.772	(1.094)	114705	6.67549	444.4397
11 Phenanthrene	178	4.405	4.402	(1.002)	194315	8.34941	555.8861
12 Anthracene	178	4.442	4.434	(1.011)	170372	7.18018	478.0409

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.597	4.589	(1.046)	143112	7.03617	468.4533
15 Fluoranthene	202	5.270	5.262	(1.199)	186378	8.07752	537.7845
16 Pyrene	202	5.441	5.433	(0.848)	170033	7.20784	479.8827
17 Benzo(a)anthracene	228	6.414	6.395	(0.999)	171986	8.81825	587.1002
19 Chrysene	228	6.435	6.427	(1.002)	144107	7.58042	504.6885
20 Benzo(b)fluoranthene	252	7.236	7.217	(0.962)	174537	7.05675	469.8233
21 Benzo(k)fluoranthene	252	7.258	7.239	(0.965)	158688	6.13654	408.5576
22 Benzo(a)pyrene	252	7.471	7.452	(0.993)	151217	6.43829	428.6475
24 Indeno(1,2,3-cd)pyrene	276	8.267	8.238	(1.099)	142190	7.66683	510.4412(M)
25 Dibenzo(a,h)anthracene	278	8.278	8.254	(1.100)	128120	6.91018	460.0655
26 Benzo(g,h,i)perylene	276	8.481	8.446	(1.127)	135745	7.06499	470.3724

QC Flag Legend

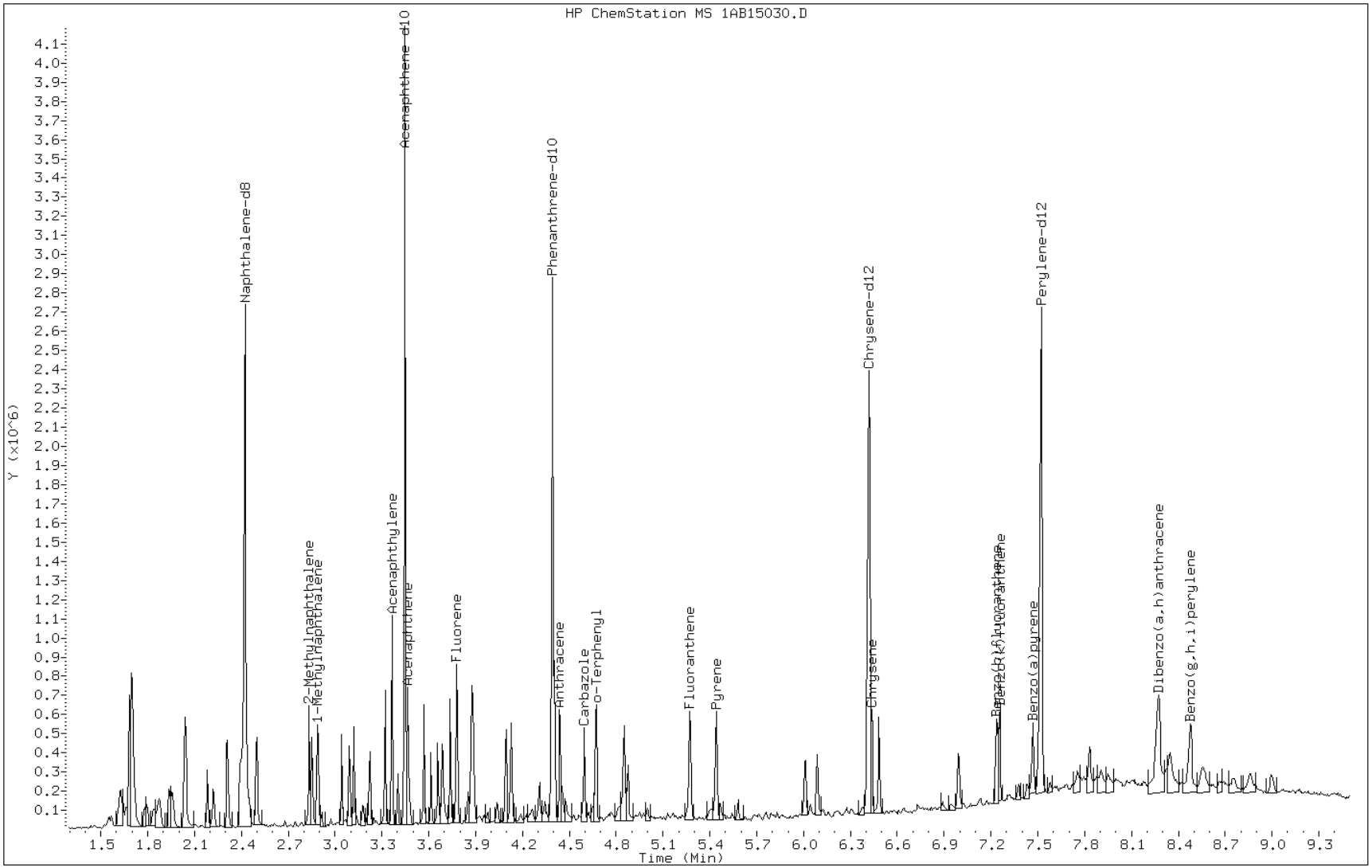
M - Compound response manually integrated.

Data File: 1AB15030.D

Date: 15-FEB-2013 21:24

Client ID: Instrument: BSMA5973.i

Sample Info: 680-87318-a-4-c msd Operator: SCC



Manual Integration Report

Data File: 1AB15030.D
Inj. Date and Time: 15-FEB-2013 21:24
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

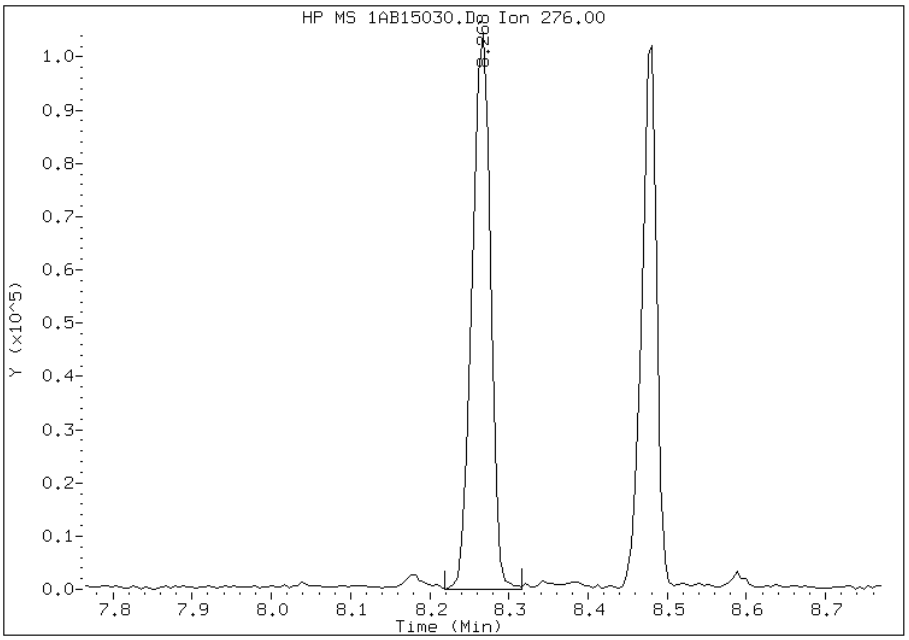
Processing Integration Results

RT: 8.27

Response: 168161

Amount: 9

Conc: 604



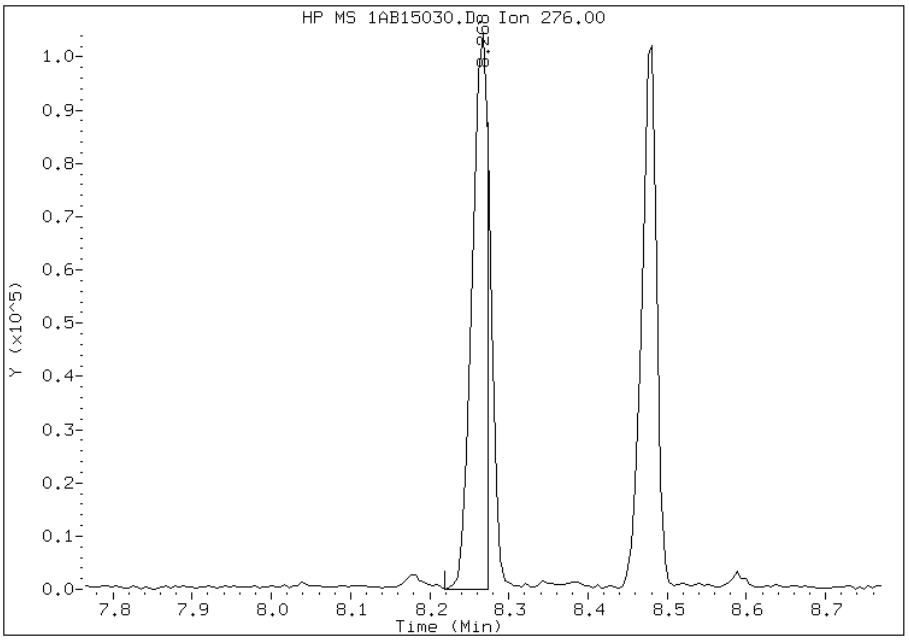
Manual Integration Results

RT: 8.27

Response: 142190

Amount: 8

Conc: 510



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:35
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMA5973 Start Date: 01/30/2013 10:50

Analysis Batch Number: 133924 End Date: 01/30/2013 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/30/2013 10:50	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 11:05	1		DB-5MS 250(um)
DFTPP 660-133924/2		01/30/2013 11:20	1	1AA30002.D	DB-5MS 250(um)
ICIS 660-133924/3		01/30/2013 11:38	1	1AA30003.D	DB-5MS 250(um)
IC 660-133924/4		01/30/2013 12:04	1	1AA30004.D	DB-5MS 250(um)
IC 660-133924/5		01/30/2013 12:19	1	1AA30005.D	DB-5MS 250(um)
IC 660-133924/6		01/30/2013 12:34	1	1AA30006.D	DB-5MS 250(um)
IC 660-133924/7		01/30/2013 12:49	1	1AA30007.D	DB-5MS 250(um)
IC 660-133924/8		01/30/2013 13:04	1	1AA30008.D	DB-5MS 250(um)
IC 660-133924/9		01/30/2013 13:20	1	1AA30009.D	DB-5MS 250(um)
ICV 660-133924/10		01/30/2013 13:35	1	1AA30010.D	DB-5MS 250(um)
ZZZZZ		01/30/2013 13:52	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:08	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:23	20		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:39	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:54	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:09	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:24	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:39	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:54	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:25	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:40	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:55	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:10	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:25	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:40	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:55	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:11	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:26	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:41	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:56	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:11	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:26	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:42	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:57	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 20:12	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 20:27	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 20:42	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 20:57	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:12	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:28	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:43	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:58	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 22:13	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMA5973 Start Date: 01/30/2013 10:50

Analysis Batch Number: 133924 End Date: 01/30/2013 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/30/2013 22:28	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 22:43	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 22:58	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMA5973 Start Date: 02/15/2013 11:37

Analysis Batch Number: 134532 End Date: 02/16/2013 02:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/15/2013 11:37	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 11:52	1		DB-5MS 250(um)
DFTPP 660-134532/2		02/15/2013 12:07	1		DB-5MS 250(um)
CCV 660-134532/3		02/15/2013 12:36	1		DB-5MS 250(um)
CCV 660-134532/5		02/15/2013 12:36	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 14:37	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 14:53	1		DB-5MS 250(um)
DFTPP 660-134532/7		02/15/2013 15:08	1	1AB15005.D	DB-5MS 250(um)
CCVIS 660-134532/8		02/15/2013 15:21	1	1AB15006.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 15:37	1		DB-5MS 250(um)
MB 660-134455/1-A		02/15/2013 15:52	1	1AB15008.D	DB-5MS 250(um)
LCS 660-134455/2-A		02/15/2013 16:07	1	1AB15009.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 16:22	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 16:37	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 16:52	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:07	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:22	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:37	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:52	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:07	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:23	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:38	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:53	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:08	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:23	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:38	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:53	1		DB-5MS 250(um)
680-87318-1	CV0005A-CS	02/15/2013 20:09	1	1AB15025.D	DB-5MS 250(um)
680-87318-2	CV0005B-CS	02/15/2013 20:24	1	1AB15026.D	DB-5MS 250(um)
680-87318-3	CV0005B-CSD	02/15/2013 20:39	1	1AB15027.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 20:54	1		DB-5MS 250(um)
680-87318-4 MS	CV0005C-CS MS	02/15/2013 21:09	1	1AB15029.D	DB-5MS 250(um)
680-87318-4 MSD	CV0005C-CS MSD	02/15/2013 21:24	1	1AB15030.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 21:40	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:55	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 22:10	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 22:25	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 22:40	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 22:55	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 23:10	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 23:25	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 23:40	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 23:56	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 00:11	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 00:26	4		DB-5MS 250(um)

8270C LL

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMA5973 Start Date: 02/15/2013 11:37

Analysis Batch Number: 134532 End Date: 02/16/2013 02:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/16/2013 00:41	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 00:56	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 01:11	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 01:26	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 01:41	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 01:57	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 02:12	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 02:27	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 02:42	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Start Date: 01/07/2013 10:42

Analysis Batch Number: 133227 End Date: 01/07/2013 17:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/07/2013 10:42	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 11:03	1		DB-5MS 250(um)
DFTPP 660-133227/1		01/07/2013 11:23	1	1CA07002.D	DB-5MS 250(um)
IC 660-133227/13		01/07/2013 11:50	1		DB-5MS 250(um)
IC 660-133227/14		01/07/2013 12:11	1		DB-5MS 250(um)
IC 660-133227/15		01/07/2013 12:32	1		DB-5MS 250(um)
IC 660-133227/16		01/07/2013 12:52	1		DB-5MS 250(um)
ICIS 660-133227/17		01/07/2013 13:13	1		DB-5MS 250(um)
IC 660-133227/18		01/07/2013 13:34	1		DB-5MS 250(um)
IC 660-133227/19		01/07/2013 14:03	1		DB-5MS 250(um)
IC 660-133227/20		01/07/2013 14:24	1		DB-5MS 250(um)
ICV 660-133227/21		01/07/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 15:04	1		DB-5MS 250(um)
IC 660-133227/3		01/07/2013 15:23	1	1CA07013.D	DB-5MS 250(um)
IC 660-133227/4		01/07/2013 15:41	1	1CA07014.D	DB-5MS 250(um)
IC 660-133227/5		01/07/2013 15:59	1	1CA07015.D	DB-5MS 250(um)
IC 660-133227/6		01/07/2013 16:18	1	1CA07016.D	DB-5MS 250(um)
ICIS 660-133227/7		01/07/2013 16:36	1	1CA07017.D	DB-5MS 250(um)
IC 660-133227/8		01/07/2013 16:54	1	1CA07018.D	DB-5MS 250(um)
IC 660-133227/9		01/07/2013 17:13	1	1CA07019.D	DB-5MS 250(um)
ICV 660-133227/10		01/07/2013 17:31	1	1CA07020.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Start Date: 02/15/2013 10:47

Analysis Batch Number: 134530 End Date: 02/15/2013 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/15/2013 10:47	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 11:05	1		DB-5MS 250(um)
DFTPP 660-134530/2		02/15/2013 11:23	1		DB-5MS 250(um)
DFTPP 660-134530/3		02/15/2013 11:40	1	1CB15003.D	DB-5MS 250(um)
CCVIS 660-134530/4		02/15/2013 11:56	1	1CB15004.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 12:25	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 12:43	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 13:01	1		DB-5MS 250(um)
MB 660-134472/1-A		02/15/2013 13:20	1	1CB15008.D	DB-5MS 250(um)
LCS 660-134472/2-A		02/15/2013 13:38	1	1CB15009.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 13:56	1		DB-5MS 250(um)
680-87279-A-21-B MS		02/15/2013 14:14	1	1CB15011.D	DB-5MS 250(um)
680-87279-A-21-C MSD		02/15/2013 14:33	1	1CB15012.D	DB-5MS 250(um)
680-87318-6	CV0005D-CS	02/15/2013 14:51	1	1CB15013.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 15:09	40		DB-5MS 250(um)
680-87318-7	CV0005E-CS	02/15/2013 15:28	1	1CB15015.D	DB-5MS 250(um)
680-87318-8	CV0005E-CSD	02/15/2013 15:46	1	1CB15016.D	DB-5MS 250(um)
680-87318-9	CV0005F-CS	02/15/2013 16:04	4	1CB15017.D	DB-5MS 250(um)
680-87318-10	CV0005G-CS	02/15/2013 16:23	1	1CB15018.D	DB-5MS 250(um)
680-87318-11	CV0005G-CSD	02/15/2013 16:41	1	1CB15019.D	DB-5MS 250(um)
680-87318-12	CV0005H-CS	02/15/2013 17:00	1	1CB15020.D	DB-5MS 250(um)
680-87318-13	CV0005I-CS	02/15/2013 17:18	1	1CB15021.D	DB-5MS 250(um)
680-87318-14	CV0005J-CS	02/15/2013 17:36	1	1CB15022.D	DB-5MS 250(um)
680-87318-15	CV0005J-CSD	02/15/2013 17:55	1	1CB15023.D	DB-5MS 250(um)
680-87318-16	CV0005K-CS	02/15/2013 18:13	1	1CB15024.D	DB-5MS 250(um)
680-87318-17	CV0005L-CS	02/15/2013 18:31	1	1CB15025.D	DB-5MS 250(um)
680-87318-18	CV0005M-CS	02/15/2013 18:50	1	1CB15026.D	DB-5MS 250(um)
680-87318-19	CV0005M-CSD	02/15/2013 19:08	1	1CB15027.D	DB-5MS 250(um)
680-87318-20	CV0005N-CS	02/15/2013 19:26	1	1CB15028.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 19:45	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:03	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:21	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:39	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:58	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:16	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:34	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:53	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: BSMC5973 Start Date: 02/18/2013 13:14

Analysis Batch Number: 134598 End Date: 02/18/2013 17:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/18/2013 13:14	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 13:32	1		DB-5MS 250(um)
DFTPP 660-134598/2		02/18/2013 13:50	1	1CB18002.D	DB-5MS 250(um)
CCVIS 660-134598/3		02/18/2013 14:07	1	1CB18003.D	DB-5MS 250(um)
ZZZZZ		02/18/2013 14:28	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 14:47	4		DB-5MS 250(um)
ZZZZZ		02/18/2013 15:05	4		DB-5MS 250(um)
680-87318-4	CV0005C-CS	02/18/2013 15:23	1	1CB18007.D	DB-5MS 250(um)
ZZZZZ		02/18/2013 15:41	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 16:00	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 16:18	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 16:36	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 16:54	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 17:13	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 17:31	1		DB-5MS 250(um)
680-87318-5	CV0005AB-GS	02/18/2013 17:49	4	1CB18015.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Batch Number: 134455 Batch Start Date: 02/14/13 08:35 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/14/13 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00174		
MB 660-134455/1		3546, 8270C LL		15.15 g	1 mL		1 mL		
LCS 660-134455/2		3546, 8270C LL		15.14 g	1 mL	1 mL	1 mL		
680-87318-A-1	CV0005A-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-87318-A-2	CV0005B-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-87318-A-3	CV0005B-CSD	3546, 8270C LL	T	15.36 g	1 mL		1 mL		
680-87318-A-4	CV0005C-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-87318-A-4 MS	CV0005C-CS	3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		
680-87318-A-4 MSD	CV0005C-CS	3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		
680-87318-A-5	CV0005AB-GS	3546, 8270C LL	T	15.01 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.: 680-87318-1

SDG No.: 68087318-1

Batch Number: 134455 Batch Start Date: 02/14/13 08:35 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/14/13 13:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT_50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_52
MeCl2/Acetone Lot #	EX-DCM/ACETON_16
Microwave Start Time	10:50 2/14/13
Microwave Stop Time	11:25 2/14/13
Na2SO4 Lot Number	EX-NA2S04A_62
Ottawa Sand Lot #	EX-OTTOWA SAND_10
Person's name who did the prep	SAUREL
SOP Number	TP-014
Person who witnessed spiking	AG
Surrogate Lot Number	EX-LLSURINT_174
TBA Lot #	N/.A
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Batch Number: 134472 Batch Start Date: 02/14/13 11:19 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/14/13 15:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00174		
MB 660-134472/1		3546, 8270C LL		15.10 g	1 mL		1 mL		
LCS 660-134472/2		3546, 8270C LL		15.26 g	1 mL	1 mL	1 mL		
680-87279-A-21 MS		3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL		
680-87279-A-21 MSD		3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL		
680-87318-A-6	CV0005D-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-87318-A-7	CV0005E-CS	3546, 8270C LL	T	15.35 g	1 mL		1 mL		
680-87318-A-8	CV0005E-CSD	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-87318-A-9	CV0005F-CS	3546, 8270C LL	T	15.25 g	1 mL		1 mL		
680-87318-A-10	CV0005G-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-87318-A-11	CV0005G-CSD	3546, 8270C LL	T	15.21 g	1 mL		1 mL		
680-87318-A-12	CV0005H-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-87318-A-13	CV0005I-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-87318-A-14	CV0005J-CS	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-87318-A-15	CV0005J-CSD	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-87318-A-16	CV0005K-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-87318-A-17	CV0005L-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-87318-A-18	CV0005M-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-87318-A-19	CV0005M-CSD	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-87318-A-20	CV0005N-CS	3546, 8270C LL	T	14.99 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.: 680-87318-1

SDG No.: 68087318-1

Batch Number: 134472 Batch Start Date: 02/14/13 11:19 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/14/13 15:20

Batch Notes	
Acetone Lot #	EX-ACETON BOT_50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_52
MeCl2/Acetone Lot #	dcm/ acton _17
Microwave Start Time	13:30 2/14/13
Microwave Stop Time	14:05 2/14/13
Na2SO4 Lot Number	EX-NA2S04A_62
Ottawa Sand Lot #	EX-OTTOWA SAND_10
Person's name who did the prep	AG
SOP Number	TP-EX-14
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT_174.
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87318-1

SDG No.: 68087318-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0005A-CS	680-87318-1
CV0005B-CS	680-87318-2
CV0005B-CSD	680-87318-3
CV0005C-CS	680-87318-4
CV0005AB-GS	680-87318-5
CV0005D-CS	680-87318-6
CV0005E-CS	680-87318-7
CV0005E-CSD	680-87318-8
CV0005F-CS	680-87318-9
CV0005G-CS	680-87318-10
CV0005G-CSD	680-87318-11
CV0005H-CS	680-87318-12
CV0005I-CS	680-87318-13
CV0005J-CS	680-87318-14
CV0005J-CSD	680-87318-15
CV0005K-CS	680-87318-16
CV0005L-CS	680-87318-17
CV0005M-CS	680-87318-18
CV0005M-CSD	680-87318-19
CV0005N-CS	680-87318-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87318-1

SDG Number: 68087318-1

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: 680-87318-1

SDG Number: 68087318-1

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: 680-87318-1

SDG Number: 68087318-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87318-1

SDG Number: 68087318-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: Moisture Method: Moisture

Start Date: 02/12/2013 06:42 End Date: 02/12/2013 12:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134382/21	1	T	06:42	X																			
LCS 660-134382/1	1	T	06:44	X																			
ZZZZZZ			06:56																				
ZZZZZZ			07:01																				
ZZZZZZ			07:13																				
ZZZZZZ			07:24																				
ZZZZZZ			07:36																				
ZZZZZZ			07:54																				
ZZZZZZ			08:06																				
ZZZZZZ			08:13																				
ZZZZZZ			08:21																				
ZZZZZZ			08:22																				
ZZZZZZ			09:30																				
ZZZZZZ			09:35																				
ZZZZZZ			10:46																				
680-87318-2	1	T	11:08	X																			
680-87318-8	1	T	11:18	X																			
680-87318-20	1	T	11:32	X																			
680-87318-11	1	T	11:35	X																			
ZZZZZZ			12:11																				
ZZZZZZ			12:11																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: Moisture Method: Moisture

Start Date: 02/12/2013 12:21 End Date: 02/12/2013 14:12

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134398/11	1	T	12:21	X																			
LCS 660-134398/1	1	T	12:24	X																			
680-87318-3	1	T	12:54	X																			
ZZZZZZ			12:59																				
ZZZZZZ			13:16																				
ZZZZZZ			13:16																				
ZZZZZZ			13:39																				
ZZZZZZ			13:39																				
ZZZZZZ			13:55																				
ZZZZZZ			14:01																				
ZZZZZZ			14:12																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

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																			
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
ZZZZZZ			13:55																				
680-87318-1	1	T	13:55	X																			
680-87318-4	1	T	13:55	X																			
680-87318-4 MS	1	T	13:55	X																			
680-87318-4 MSD	1	T	13:55	X																			
680-87318-5	1	T	13:55	X																			
680-87318-6	1	T	13:55	X																			
680-87318-7	1	T	13:55	X																			
680-87318-9	1	T	13:55	X																			
680-87318-10	1	T	13:55	X																			
680-87318-12	1	T	13:55	X																			
680-87318-13	1	T	13:55	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/13/2013 14:25 End Date: 02/13/2013 14:25

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCS 660-134442/1	1	T	14:25	X																			
680-87318-14	1	T	14:25	X																			
680-87318-15	1	T	14:25	X																			
680-87318-16	1	T	14:25	X																			
680-87318-17	1	T	14:25	X																			
680-87318-18	1	T	14:25	X																			
680-87318-19	1	T	14:25	X																			
ZZZZZZ			14:25																				
ZZZZZZ			14:25																				
ZZZZZZ			14:25																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

Batch Number: 134382 Batch Start Date: 02/12/13 06:42 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134382/1		Moisture		0 g	10.014 g	9.03 g			
680-87318-A-8	CV0005E-CSD	Moisture	T	0 g	4.489 g	3.321 g			
680-87318-A-11	CV0005G-CSD	Moisture	T	0 g	4.358 g	3.439 g			
680-87318-A-20	CV0005N-CS	Moisture	T	0 g	4.397 g	3.75 g			
680-87318-A-2	CV0005B-CS	Moisture	T	0 g	4.301 g	3.209 g			
LCSD 660-134382/21		Moisture		0 g	10.014 g	9.018 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.: 680-87318-1

SDG No.: 68087318-1

Batch Number: 134398 Batch Start Date: 02/12/13 12:21 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134398/1		Moisture		0 g	10.025 g	9.009 g			
680-87318-A-3	CV0005B-CSD	Moisture	T	0 g	5.037 g	3.72 g			
LCSD 660-134398/11		Moisture		0 g	10.036 g	9.012 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-1

SDG No.: 68087318-1

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		
680-87318-A-1	CV0005A-CS	Moisture	T	11	0 g	4.24 g	4.05 g		
680-87318-A-4	CV0005C-CS	Moisture	T	12	0 g	4.62 g	4.25 g		
680-87318-A-4 MS	CV0005C-CS	Moisture	T		0 g	4.62 g	4.25 g		
680-87318-A-4 MSD	CV0005C-CS	Moisture	T		0 g	4.62 g	4.25 g		
680-87318-A-5	CV0005AB-GS	Moisture	T	13	0 g	4.22 g	3.97 g		
680-87318-A-6	CV0005D-CS	Moisture	T	14	0 g	5.14 g	4.80 g		
680-87318-A-7	CV0005E-CS	Moisture	T	15	0 g	4.34 g	3.85 g		
680-87318-A-9	CV0005F-CS	Moisture	T	16	0 g	4.22 g	4.06 g		
680-87318-A-10	CV0005G-CS	Moisture	T	17	0 g	4.78 g	4.65 g		
680-87318-A-12	CV0005H-CS	Moisture	T	18	0 g	4.12 g	3.98 g		
680-87318-A-13	CV0005I-CS	Moisture	T	19	0 g	4.13 g	3.95 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.: 680-87318-1

SDG No.: 68087318-1

Batch Number: 134442 Batch Start Date: 02/13/13 14:25 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
LCS 660-134442/1		Moisture		20	0 g	9.15 g	9.17 g		
680-87318-A-14	CV0005J-CS	Moisture	T	21	0 g	4.57 g	4.53 g		
680-87318-A-15	CV0005J-CSD	Moisture	T	23	0 g	4.79 g	4.65 g		
680-87318-A-16	CV0005K-CS	Moisture	T	24	0 g	4.15 g	4.01 g		
680-87318-A-17	CV0005L-CS	Moisture	T	25	0 g	4.77 g	4.69 g		
680-87318-A-18	CV0005M-CS	Moisture	T	26	0 g	4.69 g	4.42 g		
680-87318-A-19	CV0005M-CSD	Moisture	T	27	0 g	6.15 g	5.89 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.

Shipping and Receiving Documents

Serial Number 59521

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Removal Ave	PROJECT NO.: 20051148-1356	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: OTIE	CLIENT E-MAIL: LKrebs@otie.com	
CLIENT ADDRESS:		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 1 OF 5

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE — COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS — PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LUPAH	TCLP SVOC	RCRA 8	REMARKS
2/7/13	1002	CV0005A-CS	C					X			
	1017	CV0005B-CS	C					X			
	1019	CV0005B-CSD	C					X			
	1023	CV0005C-CS	C					X	X		
	1033	CV0005AB-GS	G					X			
	1044	CV0005D-CS	C					X		X	
	1053	CV0005E-CS	C					X			
	1057	CV0005E-CSD	C					X			
	1101	CV0005F-CS	C					X			
	1125	CV0005G-CS	C					X			
	1128	CV0005G-CSD	C					X			
	1130	CV0005H-CS	C					X	X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/8/13	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
[signature]	02/09/13	0934	YES ○ NO ○		87718	2.2°C / 2.8°C

TAL8240-680 (1008)

Serial Number 59522

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

✓ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

◯ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL	PAGE 2 OF 5
TAL (LAB) PROJECT MANAGER: Lisa Haney	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ◯
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 6783555550	CLIENT FAX	DATE DUE
CLIENT NAME: ONE	CLIENT E-MAIL: Lkrebs@one.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
CLIENT ADDRESS			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: LUPAH; TCL SVOC; RCRA 8

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LUPAH	TCL SVOC	RCRA 8							REMARKS
2/7/13	1153	CU00005I-CS	C		✓			X		X							
	1150	CU00005J-CS	C		✓			X									
	1152	CU00005J-CSD	C		✓			X									
	1155	CU00005K-CS	C		✓			X									
	1154	CU00005L-CS	C		✓			X	X								
	1156	CU00005M-CS	C		✓			X									
	1158	CU00005M-CSD	C		✓			X									
	1203	CU00005N-CS	C		✓			X									
	1345	CU00005O-CS	C		✓			X									
	1347	CU00005O-CSD	C		✓			X									
	1357	CU00005Q-CS	C		✓			X									
	1352	CU00005P-CS	C		✓			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/8/13	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
[signature]	02/09/13	0934	YES ◯ NO ◯		680 87318	2-2°C / 2-8°C

TAL8240-680 (1008)

02/20/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-1
SDG Number: 68087318-1

Login Number: 87318
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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: 680-87318-1
SDG Number: 68087318-1

Login Number: 87318
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 02/12/13 09:59 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: 680-87318-1
SDG Number: 68087318-1

Login Number: 87318
List Number: 2
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 02/13/13 09:57 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	