TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-87320-1

SDG Number: 68087320-1

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
2/21/2013 6:37 PM

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

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

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

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

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Method Summary 6

Method / Analyst Summary 7

Data Qualifiers 8

QC Association Summary 9

Manual Integration Summary 12

Organic Sample Data 25

GC/MS Semi VOA 25

Method 8270C Low Level 25

Method 8270C Low Level QC Summary 26

Method 8270C Low Level Sample Data 47

Standards Data 521

Method 8270C Low Level ICAL Data 521

Method 8270C Low Level CCAL Data 584

Raw QC Data 603

Method 8270C Low Level Tune Data 603

Method 8270C Low Level Blank Data 623

Method 8270C Low Level LCS/LCSD Data 629

Method 8270C Low Level MS/MSD Data 639

Method 8270C Low Level Run Logs 659

Method 8270C Low Level Prep Data 664

Inorganic Sample Data 668

General Chemistry Data 668

Table of Contents

Gen Chem Cover Page 669
Gen Chem MDL 670
Gen Chem Analysis Run Log 672
Gen Chem Prep Data 674
Shipping and Receiving Documents 676
Client Chain of Custody 677
Sample Receipt Checklist 681

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87320-1

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 temperature of the coolers at receipt was 5.0 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0018A-CS (680-87320-1), FM0034A-CS (680-87320-2), FM0123A-CS (680-87320-3), FM0123A-CSD (680-87320-4), FM0138C-CS (680-87320-5), FM0153B-CS (680-87320-6), CV0748W-CS (680-87320-7), CV0748Y-CS (680-87320-8), CV0748AA-CS (680-87320-9), CV0748BB-CS (680-87320-10), CV0748CC-CS (680-87320-11), CV0748DD-CS (680-87320-12), CV0748EE-CS (680-87320-13), CV0748II-CS (680-87320-14), CV0748JJ-CS (680-87320-15), CV0748NN-CS (680-87320-16), CV0748OO-CS (680-87320-17), CV0748QQ-CS (680-87320-18), CV0748AC-GS (680-87320-19) and CV0748AB-GS (680-87320-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/15/2013 and 02/18/2013 and analyzed on 02/19/2013.

Samples FM0018A-CS (680-87320-1)[4X], FM0034A-CS (680-87320-2)[4X], FM0123A-CS (680-87320-3)[4X], FM0123A-CSD (680-87320-4)[4X], FM0153B-CS (680-87320-6)[4X], CV0748W-CS (680-87320-7)[4X], CV0748Y-CS (680-87320-8)[4X], CV0748BB-CS (680-87320-10)[4X], CV0748CC-CS (680-87320-11)[4X], CV0748DD-CS (680-87320-12)[4X], CV0748EE-CS (680-87320-13)[4X], CV0748II-CS (680-87320-14)[4X], CV0748JJ-CS (680-87320-15)[4X], CV0748NN-CS (680-87320-16)[4X], CV0748OO-CS (680-87320-17)[4X], CV0748QQ-CS (680-87320-18)[4X], CV0748AC-GS (680-87320-19)[4X] and CV0748AB-GS (680-87320-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MSD of sample 680-87320-21 in batch 660-134673.

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

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-1
Sdg Number: 68087320-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87320-1	FM0018A-CS	Solid	02/06/2013 0905	02/09/2013 0934
680-87320-1MS	FM0018A-CS	Solid	02/06/2013 0905	02/09/2013 0934
680-87320-1MSD	FM0018A-CS	Solid	02/06/2013 0905	02/09/2013 0934
680-87320-2	FM0034A-CS	Solid	02/06/2013 1020	02/09/2013 0934
680-87320-3	FM0123A-CS	Solid	02/06/2013 0834	02/09/2013 0934
680-87320-4	FM0123A-CSD	Solid	02/06/2013 0840	02/09/2013 0934
680-87320-5	FM0138C-CS	Solid	02/06/2013 1045	02/09/2013 0934
680-87320-6	FM0153B-CS	Solid	02/06/2013 0956	02/09/2013 0934
680-87320-7	CV0748W-CS	Solid	02/06/2013 0851	02/09/2013 0934
680-87320-8	CV0748Y-CS	Solid	02/06/2013 0906	02/09/2013 0934
680-87320-9	CV0748AA-CS	Solid	02/06/2013 0929	02/09/2013 0934
680-87320-10	CV0748BB-CS	Solid	02/06/2013 0924	02/09/2013 0934
680-87320-11	CV0748CC-CS	Solid	02/06/2013 0937	02/09/2013 0934
680-87320-12	CV0748DD-CS	Solid	02/06/2013 0939	02/09/2013 0934
680-87320-13	CV0748EE-CS	Solid	02/06/2013 0945	02/09/2013 0934
680-87320-14	CV0748II-CS	Solid	02/06/2013 1011	02/09/2013 0934
680-87320-15	CV0748JJ-CS	Solid	02/06/2013 1032	02/09/2013 0934
680-87320-16	CV0748NN-CS	Solid	02/06/2013 1106	02/09/2013 0934
680-87320-17	CV0748OO-CS	Solid	02/06/2013 1108	02/09/2013 0934
680-87320-18	CV0748QQ-CS	Solid	02/06/2013 1112	02/09/2013 0934
680-87320-19	CV0748AC-GS	Solid	02/06/2013 1014	02/09/2013 0934
680-87320-20	CV0748AB-GS	Solid	02/06/2013 0918	02/09/2013 0934

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-1
Sdg Number: 68087320-1

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: 680-87320-1
Sdg Number: 68087320-1

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: 680-87320-1
Sdg Number: 68087320-1

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-1
Sdg Number: 68087320-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134515					
LCS 660-134515/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134515/1-A	Method Blank	T	Solid	3546	
680-87320-1	FM0018A-CS	T	Solid	3546	
680-87320-1MS	Matrix Spike	T	Solid	3546	
680-87320-1MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87320-2	FM0034A-CS	T	Solid	3546	
680-87320-3	FM0123A-CS	T	Solid	3546	
680-87320-4	FM0123A-CSD	T	Solid	3546	
680-87320-5	FM0138C-CS	T	Solid	3546	
680-87320-6	FM0153B-CS	T	Solid	3546	
680-87320-7	CV0748W-CS	T	Solid	3546	
680-87320-8	CV0748Y-CS	T	Solid	3546	
680-87320-9	CV0748AA-CS	T	Solid	3546	
680-87320-10	CV0748BB-CS	T	Solid	3546	
680-87320-11	CV0748CC-CS	T	Solid	3546	
680-87320-12	CV0748DD-CS	T	Solid	3546	
Prep Batch: 660-134575					
LCS 660-134575/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134575/1-A	Method Blank	T	Solid	3546	
680-87320-13	CV0748EE-CS	T	Solid	3546	
680-87320-14	CV0748II-CS	T	Solid	3546	
680-87320-15	CV0748JJ-CS	T	Solid	3546	
680-87320-16	CV0748NN-CS	T	Solid	3546	
680-87320-17	CV0748OO-CS	T	Solid	3546	
680-87320-18	CV0748QQ-CS	T	Solid	3546	
680-87320-19	CV0748AC-GS	T	Solid	3546	
680-87320-20	CV0748AB-GS	T	Solid	3546	
680-87320-A-21-B MS	Matrix Spike	T	Solid	3546	
680-87320-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-134673					
LCS 660-134575/2-A	Lab Control Sample	T	Solid	8270C LL	660-134575
MB 660-134575/1-A	Method Blank	T	Solid	8270C LL	660-134575
680-87320-13	CV0748EE-CS	T	Solid	8270C LL	660-134575
680-87320-14	CV0748II-CS	T	Solid	8270C LL	660-134575
680-87320-15	CV0748JJ-CS	T	Solid	8270C LL	660-134575
680-87320-16	CV0748NN-CS	T	Solid	8270C LL	660-134575
680-87320-17	CV0748OO-CS	T	Solid	8270C LL	660-134575
680-87320-18	CV0748QQ-CS	T	Solid	8270C LL	660-134575
680-87320-19	CV0748AC-GS	T	Solid	8270C LL	660-134575
680-87320-20	CV0748AB-GS	T	Solid	8270C LL	660-134575
680-87320-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-134575
680-87320-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134575

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-1
Sdg Number: 68087320-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-134679					
LCS 660-134515/2-A	Lab Control Sample	T	Solid	8270C LL	660-134515
MB 660-134515/1-A	Method Blank	T	Solid	8270C LL	660-134515
680-87320-1	FM0018A-CS	T	Solid	8270C LL	660-134515
680-87320-1MS	Matrix Spike	T	Solid	8270C LL	660-134515
680-87320-1MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134515
680-87320-2	FM0034A-CS	T	Solid	8270C LL	660-134515
680-87320-3	FM0123A-CS	T	Solid	8270C LL	660-134515
680-87320-4	FM0123A-CSD	T	Solid	8270C LL	660-134515
680-87320-5	FM0138C-CS	T	Solid	8270C LL	660-134515
680-87320-6	FM0153B-CS	T	Solid	8270C LL	660-134515
680-87320-7	CV0748W-CS	T	Solid	8270C LL	660-134515
680-87320-8	CV0748Y-CS	T	Solid	8270C LL	660-134515
680-87320-9	CV0748AA-CS	T	Solid	8270C LL	660-134515
680-87320-10	CV0748BB-CS	T	Solid	8270C LL	660-134515
680-87320-11	CV0748CC-CS	T	Solid	8270C LL	660-134515
680-87320-12	CV0748DD-CS	T	Solid	8270C LL	660-134515

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-1
Sdg Number: 68087320-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134421					
LCS 660-134421/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134421/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87320-1	FM0018A-CS	T	Solid	Moisture	
680-87320-1MS	Matrix Spike	T	Solid	Moisture	
680-87320-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-87320-2	FM0034A-CS	T	Solid	Moisture	
680-87320-3	FM0123A-CS	T	Solid	Moisture	
680-87320-4	FM0123A-CSD	T	Solid	Moisture	
680-87320-5	FM0138C-CS	T	Solid	Moisture	
680-87320-6	FM0153B-CS	T	Solid	Moisture	
680-87320-7	CV0748W-CS	T	Solid	Moisture	
680-87320-8	CV0748Y-CS	T	Solid	Moisture	
680-87320-9	CV0748AA-CS	T	Solid	Moisture	
680-87320-10	CV0748BB-CS	T	Solid	Moisture	
680-87320-11	CV0748CC-CS	T	Solid	Moisture	
680-87320-12	CV0748DD-CS	T	Solid	Moisture	
680-87320-13	CV0748EE-CS	T	Solid	Moisture	
680-87320-14	CV0748II-CS	T	Solid	Moisture	
680-87320-15	CV0748JJ-CS	T	Solid	Moisture	
Analysis Batch:660-134441					
LCS 660-134441/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134441/17	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87320-16	CV0748NN-CS	T	Solid	Moisture	
680-87320-17	CV0748OO-CS	T	Solid	Moisture	
680-87320-18	CV0748QQ-CS	T	Solid	Moisture	
680-87320-19	CV0748AC-GS	T	Solid	Moisture	
680-87320-20	CV0748AB-GS	T	Solid	Moisture	
680-87320-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-87320-A-21 MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

Instrument ID: BSMA5973 Analysis Batch Number: 134679

Lab Sample ID: CCVIS 660-134679/3 Client Sample ID:

Date Analyzed: 02/19/13 10:52 Lab File ID: 1AB19003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/19/13 11:07

Lab Sample ID: LCS 660-134515/2-A Client Sample ID:

Date Analyzed: 02/19/13 13:11 Lab File ID: 1AB19006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.20	Split Peak	cantins	02/20/13 16:17

Lab Sample ID: 680-87320-1 Client Sample ID: FM0018A-CS

Date Analyzed: 02/19/13 15:27 Lab File ID: 1AB19015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	6.40	Split Peak	cantins	02/20/13 16:27
Chrysene	6.41	Baseline Event	cantins	02/20/13 16:27
Benzo[b]fluoranthene	7.21	Split Peak	cantins	02/20/13 16:27
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/20/13 16:28
Indeno[1,2,3-cd]pyrene	8.22	Split Peak	cantins	02/20/13 16:28
Dibenz(a,h)anthracene	8.23	Analyte Misidentified by the Data System	cantins	02/20/13 16:28

Lab Sample ID: 680-87320-1 MS Client Sample ID: FM0018A-CS MS

Date Analyzed: 02/19/13 15:42 Lab File ID: 1AB19016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.22	Split Peak	cantins	02/20/13 16:29

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Instrument ID: BSMA5973 Analysis Batch Number: 134679

Lab Sample ID: 680-87320-1 MSD Client Sample ID: FM0018A-CS MSD

Date Analyzed: 02/19/13 15:57 Lab File ID: 1AB19017.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	02/20/13 16:30

Lab Sample ID: 680-87320-2 Client Sample ID: FM0034A-CS

Date Analyzed: 02/19/13 16:13 Lab File ID: 1AB19018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.21	Split Peak	cantins	02/20/13 16:30
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/20/13 16:31
Indeno[1,2,3-cd]pyrene	8.23	Split Peak	cantins	02/20/13 16:31
Dibenz(a,h)anthracene	8.24	Analyte Misidentified by the Data System	cantins	02/20/13 16:31

Lab Sample ID: 680-87320-3 Client Sample ID: FM0123A-CS

Date Analyzed: 02/19/13 16:27 Lab File ID: 1AB19019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.21	Split Peak	cantins	02/20/13 16:32
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/20/13 16:32
Indeno[1,2,3-cd]pyrene	8.23	Split Peak	cantins	02/20/13 16:33

Lab Sample ID: 680-87320-4 Client Sample ID: FM0123A-CSD

Date Analyzed: 02/19/13 16:42 Lab File ID: 1AB19020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.22	Split Peak	cantins	02/20/13 16:33
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/20/13 16:33
Indeno[1,2,3-cd]pyrene	8.23	Split Peak	cantins	02/20/13 16:34

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Instrument ID: BSMA5973 Analysis Batch Number: 134679

Lab Sample ID: 680-87320-5 Client Sample ID: FM0138C-CS

Date Analyzed: 02/19/13 16:58 Lab File ID: 1AB19021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	6.40	Split Peak	cantins	02/20/13 16:35
Chrysene	6.42	Baseline Event	cantins	02/20/13 16:35
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/20/13 16:35
Indeno[1,2,3-cd]pyrene	8.23	Split Peak	cantins	02/20/13 16:36

Lab Sample ID: 680-87320-6 Client Sample ID: FM0153B-CS

Date Analyzed: 02/19/13 17:13 Lab File ID: 1AB19022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.22	Split Peak	cantins	02/20/13 16:37
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/20/13 16:37
Indeno[1,2,3-cd]pyrene	8.23	Split Peak	cantins	02/20/13 16:37
Benzo[g,h,i]perylene	8.45	Baseline Event	cantins	02/20/13 16:37

Lab Sample ID: 680-87320-7 Client Sample ID: CV0748W-CS

Date Analyzed: 02/19/13 17:28 Lab File ID: 1AB19023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.22	Split Peak	cantins	02/20/13 16:38
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/20/13 16:38
Indeno[1,2,3-cd]pyrene	8.24	Split Peak	cantins	02/20/13 16:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Instrument ID: BSMA5973 Analysis Batch Number: 134679

Lab Sample ID: 680-87320-8 Client Sample ID: CV0748Y-CS

Date Analyzed: 02/19/13 17:43 Lab File ID: 1AB19024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.22	Split Peak	cantins	02/20/13 16:40
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/20/13 16:40
Indeno[1,2,3-cd]pyrene	8.24	Split Peak	cantins	02/20/13 16:40

Lab Sample ID: 680-87320-9 Client Sample ID: CV0748AA-CS

Date Analyzed: 02/19/13 17:58 Lab File ID: 1AB19025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.22	Split Peak	cantins	02/20/13 16:41
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/20/13 16:41
Indeno[1,2,3-cd]pyrene	8.24	Split Peak	cantins	02/20/13 16:41

Lab Sample ID: 680-87320-10 Client Sample ID: CV0748BB-CS

Date Analyzed: 02/19/13 18:13 Lab File ID: 1AB19026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.22	Split Peak	cantins	02/20/13 16:42
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/20/13 16:42
Indeno[1,2,3-cd]pyrene	8.24	Split Peak	cantins	02/20/13 16:43

Lab Sample ID: 680-87320-11 Client Sample ID: CV0748CC-CS

Date Analyzed: 02/19/13 18:28 Lab File ID: 1AB19027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.22	Split Peak	cantins	02/20/13 16:43
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/20/13 16:43
Indeno[1,2,3-cd]pyrene	8.24	Split Peak	cantins	02/20/13 16:44

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Instrument ID: BSMA5973 Analysis Batch Number: 134679

Lab Sample ID: 680-87320-12 Client Sample ID: CV0748DD-CS

Date Analyzed: 02/19/13 18:43 Lab File ID: 1AB19028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.22	Split Peak	cantins	02/20/13 16:45
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/20/13 16:45
Indeno[1,2,3-cd]pyrene	8.24	Split Peak	cantins	02/20/13 16:46

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

Instrument ID: BSMC5973 Analysis Batch Number: 134673

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

Date Analyzed: 02/19/13 11:06 Lab File ID: 1CB19003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/19/13 11:24

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

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

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

Lab Sample ID: 680-87320-13 Client Sample ID: CV0748EE-CS

Date Analyzed: 02/19/13 15:23 Lab File ID: 1CB19007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/20/13 13:25
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/20/13 13:25
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/20/13 13:25
Benzo[g,h,i]perylene	10.61	Baseline Event	cantins	02/20/13 13:28

Lab Sample ID: 680-87320-14 Client Sample ID: CV0748II-CS

Date Analyzed: 02/19/13 15:41 Lab File ID: 1CB19008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:27
Dibenz(a,h)anthracene	10.26	Baseline Event	cantins	02/20/13 13:27
Benzo[g,h,i]perylene	10.61	Baseline Event	cantins	02/20/13 13:27

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Instrument ID: BSMC5973 Analysis Batch Number: 134673

Lab Sample ID: 680-87320-15 Client Sample ID: CV0748JJ-CS

Date Analyzed: 02/19/13 16:00 Lab File ID: 1CB19009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/20/13 13:28
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/20/13 13:28
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:29

Lab Sample ID: 680-87320-16 Client Sample ID: CV0748NN-CS

Date Analyzed: 02/19/13 16:18 Lab File ID: 1CB19010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/20/13 13:29
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/20/13 13:29
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/20/13 13:30

Lab Sample ID: 680-87320-17 Client Sample ID: CV0748OO-CS

Date Analyzed: 02/19/13 16:36 Lab File ID: 1CB19011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:31

Lab Sample ID: 680-87320-18 Client Sample ID: CV0748QQ-CS

Date Analyzed: 02/19/13 16:55 Lab File ID: 1CB19012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/20/13 13:31
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/20/13 13:32
Dibenz(a,h)anthracene	10.25	Baseline Event	cantins	02/20/13 13:32
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:32
Benzo[g,h,i]perylene	10.62	Baseline Event	cantins	02/20/13 13:32

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Instrument ID: BSMC5973 Analysis Batch Number: 134673

Lab Sample ID: 680-87320-19 Client Sample ID: CV0748AC-GS

Date Analyzed: 02/19/13 17:13 Lab File ID: 1CB19013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/20/13 13:33
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	02/20/13 13:33
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:34
Benzo[g,h,i]perylene	10.62	Baseline Event	cantins	02/20/13 13:33

Lab Sample ID: 680-87320-20 Client Sample ID: CV0748AB-GS

Date Analyzed: 02/19/13 17:31 Lab File ID: 1CB19014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:34

Lab Sample ID: 680-87320-A-21-B MS Client Sample ID:

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

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

Lab Sample ID: 680-87320-A-21-C MSD Client Sample ID:

Date Analyzed: 02/19/13 18:26 Lab File ID: 1CB19017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/20/13 13:39

Method 8270C Low Level

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

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
FM0018A-CS	680-87320-1	76
FM0034A-CS	680-87320-2	83
FM0123A-CS	680-87320-3	81
FM0123A-CSD	680-87320-4	74
FM0138C-CS	680-87320-5	62
FM0153B-CS	680-87320-6	93
CV0748W-CS	680-87320-7	83
CV0748Y-CS	680-87320-8	71
CV0748AA-CS	680-87320-9	61
CV0748BB-CS	680-87320-10	67
CV0748CC-CS	680-87320-11	78
CV0748DD-CS	680-87320-12	70
CV0748EE-CS	680-87320-13	109
CV0748II-CS	680-87320-14	103
CV0748JJ-CS	680-87320-15	96
CV0748NN-CS	680-87320-16	111
CV0748OO-CS	680-87320-17	86
CV0748QQ-CS	680-87320-18	97
CV0748AC-GS	680-87320-19	72
CV0748AB-GS	680-87320-20	89
	MB 660-134515/1-A	68
	MB 660-134575/1-A	87
	LCS 660-134515/2-A	94
	LCS 660-134575/2-A	92
	680-87320-A-21-B MS	96
FM0018A-CS MS	680-87320-1 MS	97
	680-87320-A-21-C MSD	110
FM0018A-CS MSD	680-87320-1 MSD	87

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Matrix: Solid Level: Low Lab File ID: 1AB19006.D

Lab ID: LCS 660-134515/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	661	433	65	39-130	
Acenaphthylene	661	438	66	38-130	
Anthracene	661	456	69	37-130	
Benzo[a]anthracene	661	522	79	40-130	
Benzo[a]pyrene	661	432	65	49-130	
Benzo[b]fluoranthene	661	520	79	37-130	
Benzo[g,h,i]perylene	661	519	78	32-130	
Benzo[k]fluoranthene	661	458	69	32-130	
Chrysene	661	515	78	41-130	
Dibenz(a,h)anthracene	661	456	69	27-130	
Fluoranthene	661	510	77	40-130	
Fluorene	661	461	70	40-130	
Indeno[1,2,3-cd]pyrene	661	443	67	30-130	
1-Methylnaphthalene	661	476	72	31-130	
2-Methylnaphthalene	661	507	77	33-130	
Naphthalene	661	451	68	36-130	
Phenanthrene	661	478	72	42-130	
Pyrene	661	434	66	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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

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

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	651	487	75	39-130	
Acenaphthylene	651	530	81	38-130	
Anthracene	651	554	85	37-130	
Benzo[a]anthracene	651	579	89	40-130	
Benzo[a]pyrene	651	540	83	49-130	
Benzo[b]fluoranthene	651	569	87	37-130	
Benzo[g,h,i]perylene	651	511	79	32-130	
Benzo[k]fluoranthene	651	552	85	32-130	
Chrysene	651	499	77	41-130	
Dibenz(a,h)anthracene	651	516	79	27-130	
Fluoranthene	651	567	87	40-130	
Fluorene	651	520	80	40-130	
Indeno[1,2,3-cd]pyrene	651	514	79	30-130	
1-Methylnaphthalene	651	560	86	31-130	
2-Methylnaphthalene	651	518	80	33-130	
Naphthalene	651	480	74	36-130	
Phenanthrene	651	485	74	42-130	
Pyrene	651	580	89	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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

Lab ID: 680-87320-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	901	540 U	641	71	39-130	
Acenaphthylene	901	48 J	795	83	38-130	
Anthracene	901	100	862	85	37-130	
Benzo[a]anthracene	901	500	1230	81	40-130	
Benzo[a]pyrene	901	480	1190	78	49-130	
Benzo[b]fluoranthene	901	810	1680	96	37-130	
Benzo[g,h,i]perylene	901	410	1020	68	32-130	
Benzo[k]fluoranthene	901	360	1000	71	32-130	
Chrysene	901	620	1290	74	41-130	
Dibenz(a,h)anthracene	901	120	796	75	27-130	
Fluoranthene	901	760	1470	78	40-130	
Fluorene	901	34 J	735	78	40-130	
Indeno[1,2,3-cd]pyrene	901	310	972	73	30-130	
1-Methylnaphthalene	901	190 J	920	81	31-130	
2-Methylnaphthalene	901	210 J	848	71	33-130	
Naphthalene	901	180 J	843	73	36-130	
Phenanthrene	901	440	1100	74	42-130	
Pyrene	901	720	1620	100	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Matrix: Solid Level: Low Lab File ID: 1AB19016.D

Lab ID: 680-87320-1 MS Client ID: FM0018A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	749	450 U	493	66	39-130	
Acenaphthylene	749	180 U	481	64	38-130	
Anthracene	749	26 J	572	73	37-130	
Benzo[a]anthracene	749	120	730	81	40-130	
Benzo[a]pyrene	749	60	474	55	49-130	
Benzo[b]fluoranthene	749	95	499	54	37-130	
Benzo[g,h,i]perylene	749	91	623	71	32-130	
Benzo[k]fluoranthene	749	35 J	512	64	32-130	
Chrysene	749	160	631	63	41-130	
Dibenz(a,h)anthracene	749	39 J	503	62	27-130	
Fluoranthene	749	98	619	70	40-130	
Fluorene	749	90 U	541	72	40-130	
Indeno[1,2,3-cd]pyrene	749	66 J	484	56	30-130	
1-Methylnaphthalene	749	66 J	648	78	31-130	
2-Methylnaphthalene	749	78 J	668	79	33-130	
Naphthalene	749	70 J	552	64	36-130	
Phenanthrene	749	160	744	78	42-130	
Pyrene	749	94	621	70	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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

Lab ID: 680-87320-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	901	856	95	29	40	39-130	
Acenaphthylene	901	920	97	15	40	38-130	
Anthracene	901	1040	104	18	40	37-130	
Benzo[a]anthracene	901	1600	122	27	40	40-130	
Benzo[a]pyrene	901	1510	114	24	40	49-130	
Benzo[b]fluoranthene	901	2020	133	18	40	37-130	F
Benzo[g,h,i]perylene	901	1250	93	20	40	32-130	
Benzo[k]fluoranthene	901	1350	110	29	40	32-130	
Chrysene	901	1560	105	19	40	41-130	
Dibenz(a,h)anthracene	901	933	90	16	40	27-130	
Fluoranthene	901	1940	131	28	40	40-130	F
Fluorene	901	903	96	21	40	40-130	
Indeno[1,2,3-cd]pyrene	901	1140	92	16	40	30-130	
1-Methylnaphthalene	901	1160	107	23	40	31-130	
2-Methylnaphthalene	901	1040	92	20	40	33-130	
Naphthalene	901	955	86	13	40	36-130	
Phenanthrene	901	1460	114	28	40	42-130	
Pyrene	901	2030	145	22	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Matrix: Solid Level: Low Lab File ID: 1AB19017.D

Lab ID: 680-87320-1 MSD Client ID: FM0018A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	749	566	76	14	40	39-130	
Acenaphthylene	749	545	73	12	40	38-130	
Anthracene	749	655	84	14	40	37-130	
Benzo[a]anthracene	749	797	90	9	40	40-130	
Benzo[a]pyrene	749	500	59	5	40	49-130	
Benzo[b]fluoranthene	749	571	64	14	40	37-130	
Benzo[g,h,i]perylene	749	650	75	4	40	32-130	
Benzo[k]fluoranthene	749	521	65	2	40	32-130	
Chrysene	749	759	80	18	40	41-130	
Dibenz(a,h)anthracene	749	680	86	30	40	27-130	
Fluoranthene	749	763	89	21	40	40-130	
Fluorene	749	602	80	11	40	40-130	
Indeno[1,2,3-cd]pyrene	749	570	67	16	40	30-130	
1-Methylnaphthalene	749	718	87	10	40	31-130	
2-Methylnaphthalene	749	727	87	8	40	33-130	
Naphthalene	749	652	78	17	40	36-130	
Phenanthrene	749	859	94	14	40	42-130	
Pyrene	749	693	80	11	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.: 680-87320-1

SDG No.: 68087320-1

Lab File ID: 1AB19005.D Lab Sample ID: MB 660-134515/1-A

Matrix: Solid Date Extracted: 02/15/2013 10:18

Instrument ID: BSMA5973 Date Analyzed: 02/19/2013 12:56

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134515/2-A	1AB19006.D	02/19/2013 13:11
FM0018A-CS	680-87320-1	1AB19015.D	02/19/2013 15:27
FM0018A-CS MS	680-87320-1 MS	1AB19016.D	02/19/2013 15:42
FM0018A-CS MSD	680-87320-1 MSD	1AB19017.D	02/19/2013 15:57
FM0034A-CS	680-87320-2	1AB19018.D	02/19/2013 16:13
FM0123A-CS	680-87320-3	1AB19019.D	02/19/2013 16:27
FM0123A-CSD	680-87320-4	1AB19020.D	02/19/2013 16:42
FM0138C-CS	680-87320-5	1AB19021.D	02/19/2013 16:58
FM0153B-CS	680-87320-6	1AB19022.D	02/19/2013 17:13
CV0748W-CS	680-87320-7	1AB19023.D	02/19/2013 17:28
CV0748Y-CS	680-87320-8	1AB19024.D	02/19/2013 17:43
CV0748AA-CS	680-87320-9	1AB19025.D	02/19/2013 17:58
CV0748BB-CS	680-87320-10	1AB19026.D	02/19/2013 18:13
CV0748CC-CS	680-87320-11	1AB19027.D	02/19/2013 18:28
CV0748DD-CS	680-87320-12	1AB19028.D	02/19/2013 18:43

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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

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

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

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134575/2-A	1CB19006.D	02/19/2013 15:05
CV0748EE-CS	680-87320-13	1CB19007.D	02/19/2013 15:23
CV0748II-CS	680-87320-14	1CB19008.D	02/19/2013 15:41
CV0748JJ-CS	680-87320-15	1CB19009.D	02/19/2013 16:00
CV0748NN-CS	680-87320-16	1CB19010.D	02/19/2013 16:18
CV0748OO-CS	680-87320-17	1CB19011.D	02/19/2013 16:36
CV0748QQ-CS	680-87320-18	1CB19012.D	02/19/2013 16:55
CV0748AC-GS	680-87320-19	1CB19013.D	02/19/2013 17:13
CV0748AB-GS	680-87320-20	1CB19014.D	02/19/2013 17:31
	680-87320-A-21-B MS	1CB19016.D	02/19/2013 18:07
	680-87320-A-21-C MSD	1CB19017.D	02/19/2013 18:26

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

Lab File ID: 1AB19002.D DFTPP Injection Date: 02/19/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:38

Analysis Batch No.: 134679

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	53.1	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	46.5	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	48.5	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.4	
275	10.0 - 60.0 % of mass 198	22.0	
365	Greater than 1.0 % of mass 198	5.1	
441	Present but less than mass 443	10.4	
442	Greater than 50.0 % of mass 198	67.3	
443	15.0 - 24.0 % of mass 442	12.6	(18.7)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134679/3	1AB19003.D	02/19/2013	10:52
	MB 660-134515/1-A	1AB19005.D	02/19/2013	12:56
	LCS 660-134515/2-A	1AB19006.D	02/19/2013	13:11
FM0018A-CS	680-87320-1	1AB19015.D	02/19/2013	15:27
FM0018A-CS MS	680-87320-1 MS	1AB19016.D	02/19/2013	15:42
FM0018A-CS MSD	680-87320-1 MSD	1AB19017.D	02/19/2013	15:57
FM0034A-CS	680-87320-2	1AB19018.D	02/19/2013	16:13
FM0123A-CS	680-87320-3	1AB19019.D	02/19/2013	16:27
FM0123A-CSD	680-87320-4	1AB19020.D	02/19/2013	16:42
FM0138C-CS	680-87320-5	1AB19021.D	02/19/2013	16:58
FM0153B-CS	680-87320-6	1AB19022.D	02/19/2013	17:13
CV0748W-CS	680-87320-7	1AB19023.D	02/19/2013	17:28
CV0748Y-CS	680-87320-8	1AB19024.D	02/19/2013	17:43
CV0748AA-CS	680-87320-9	1AB19025.D	02/19/2013	17:58
CV0748BB-CS	680-87320-10	1AB19026.D	02/19/2013	18:13
CV0748CC-CS	680-87320-11	1AB19027.D	02/19/2013	18:28
CV0748DD-CS	680-87320-12	1AB19028.D	02/19/2013	18:43

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

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

Instrument ID: BSMC5973 DFTPP Injection Time: 10:50

Analysis Batch No.: 134673

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	36.2	
68	Less than 2.0 % of mass 69	0.9	(1.8)1
69	Mass 69 relative abundance	50.0	
70	Less than 2.0 % of mass 69	0.2	(0.3)1
127	10.0 - 80.0 % of mass 198	44.9	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.7	
275	10.0 - 60.0 % of mass 198	20.7	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	10.6	
442	Greater than 50.0 % of mass 198	68.8	
443	15.0 - 24.0 % of mass 442	13.7	(19.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134673/3	1CB19003.D	02/19/2013	11:06
	MB 660-134575/1-A	1CB19005.D	02/19/2013	14:47
	LCS 660-134575/2-A	1CB19006.D	02/19/2013	15:05
CV0748EE-CS	680-87320-13	1CB19007.D	02/19/2013	15:23
CV0748II-CS	680-87320-14	1CB19008.D	02/19/2013	15:41
CV0748JJ-CS	680-87320-15	1CB19009.D	02/19/2013	16:00
CV0748NN-CS	680-87320-16	1CB19010.D	02/19/2013	16:18
CV0748OO-CS	680-87320-17	1CB19011.D	02/19/2013	16:36
CV0748QQ-CS	680-87320-18	1CB19012.D	02/19/2013	16:55
CV0748AC-GS	680-87320-19	1CB19013.D	02/19/2013	17:13
CV0748AB-GS	680-87320-20	1CB19014.D	02/19/2013	17:31
	680-87320-A-21-B MS	1CB19016.D	02/19/2013	18:07
	680-87320-A-21-C MSD	1CB19017.D	02/19/2013	18:26

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

Sample No.: CCVIS 660-134679/3 Date Analyzed: 02/19/2013 10:52

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

Lab File ID (Standard): 1AB19003.D Heated Purge: (Y/N) N

Calibration ID: 2712

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1212726	2.41	729976	3.43	1097330	4.37
UPPER LIMIT		2425452	2.91	1459952	3.93	2194660	4.87
LOWER LIMIT		606363	1.91	364988	2.93	548665	3.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134515/1-A		1287692	2.40	922099	3.43	1275455	4.37
LCS 660-134515/2-A		961816	2.40	634430	3.43	964929	4.37
680-87320-1	FM0018A-CS	708952	2.41	522024	3.44	707132	4.38
680-87320-1 MS	FM0018A-CS MS	739106	2.41	555534	3.44	789269	4.38
680-87320-1 MSD	FM0018A-CS MSD	731141	2.41	522988	3.44	762138	4.38
680-87320-2	FM0034A-CS	730411	2.41	529786	3.44	758843	4.38
680-87320-3	FM0123A-CS	695033	2.41	483818	3.44	687913	4.38
680-87320-4	FM0123A-CSD	697152	2.41	499433	3.44	717195	4.38
680-87320-5	FM0138C-CS	820636	2.41	553071	3.44	835554	4.38
680-87320-6	FM0153B-CS	682737	2.41	463637	3.44	713395	4.38
680-87320-7	CV0748W-CS	711729	2.41	497677	3.44	728091	4.38
680-87320-8	CV0748Y-CS	702026	2.41	475627	3.44	722341	4.38
680-87320-9	CV0748AA-CS	736510	2.41	510063	3.44	759936	4.38
680-87320-10	CV0748BB-CS	695468	2.41	513846	3.44	722198	4.38
680-87320-11	CV0748CC-CS	710373	2.41	476371	3.44	739448	4.38
680-87320-12	CV0748DD-CS	675223	2.41	494834	3.44	706237	4.38

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Sample No.: CCVIS 660-134679/3 Date Analyzed: 02/19/2013 10:52

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

Lab File ID (Standard): 1AB19003.D Heated Purge: (Y/N) N

Calibration ID: 2712

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		935352	6.39	932501	7.48		
UPPER LIMIT		1870704	6.89	1865002	7.98		
LOWER LIMIT		467676	5.89	466251	6.98		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134515/1-A		1098702	6.39	1109634	7.49		
LCS 660-134515/2-A		841339	6.38	856775	7.48		
680-87320-1	FM0018A-CS	490973	6.40	749311	7.50		
680-87320-1 MS	FM0018A-CS MS	581632	6.40	825797	7.50		
680-87320-1 MSD	FM0018A-CS MSD	572506	6.40	764796	7.50		
680-87320-2	FM0034A-CS	565133	6.40	741502	7.50		
680-87320-3	FM0123A-CS	537437	6.40	715291	7.50		
680-87320-4	FM0123A-CSD	586538	6.40	783828	7.50		
680-87320-5	FM0138C-CS	644935	6.41	849843	7.51		
680-87320-6	FM0153B-CS	559425	6.40	744880	7.50		
680-87320-7	CV0748W-CS	606689	6.40	774609	7.50		
680-87320-8	CV0748Y-CS	603404	6.41	788836	7.51		
680-87320-9	CV0748AA-CS	616144	6.41	820625	7.51		
680-87320-10	CV0748BB-CS	625105	6.40	777480	7.50		
680-87320-11	CV0748CC-CS	640927	6.41	831740	7.51		
680-87320-12	CV0748DD-CS	590933	6.40	764305	7.51		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

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

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

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

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2572245	3.82	1964004	4.90	3670146	5.86
UPPER LIMIT		5144490	4.32	3928008	5.40	7340292	6.36
LOWER LIMIT		1286123	3.32	982002	4.40	1835073	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134575/1-A		2045775	3.82	1629406	4.91	2925589	5.87
LCS 660-134575/2-A		1929802	3.82	1544217	4.90	2839629	5.86
680-87320-13	CV0748EE-CS	1903262	3.82	1473144	4.90	2721244	5.86
680-87320-14	CV0748II-CS	2038005	3.82	1588155	4.90	2889581	5.86
680-87320-15	CV0748JJ-CS	2220479	3.82	1731703	4.90	3105000	5.86
680-87320-16	CV0748NN-CS	1864061	3.82	1454772	4.90	2699984	5.86
680-87320-17	CV0748OO-CS	2080576	3.82	1605184	4.90	2842382	5.86
680-87320-18	CV0748QQ-CS	2038963	3.82	1587906	4.90	2932817	5.86
680-87320-19	CV0748AC-GS	2123032	3.82	1651921	4.90	2958833	5.86
680-87320-20	CV0748AB-GS	2014346	3.82	1588476	4.90	2829824	5.86
680-87320-A-21-B MS		2153571	3.82	1647626	4.90	2961943	5.86
680-87320-A-21-C MSD		2205129	3.82	1659623	4.90	2923400	5.86

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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

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

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

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3917198	7.81	3584382	9.03		
UPPER LIMIT		7834396	8.31	7168764	9.53		
LOWER LIMIT		1958599	7.31	1792191	8.53		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134575/1-A		3238232	7.83	3085834	9.06		
LCS 660-134575/2-A		3148649	7.81	2975764	9.03		
680-87320-13	CV0748EE-CS	2833832	7.80	2695013	9.03		
680-87320-14	CV0748II-CS	3003938	7.80	2828739	9.03		
680-87320-15	CV0748JJ-CS	3175100	7.80	2999488	9.03		
680-87320-16	CV0748NN-CS	3038058	7.80	2584564	9.03		
680-87320-17	CV0748OO-CS	2818491	7.80	2638679	9.03		
680-87320-18	CV0748QQ-CS	2964102	7.80	2726633	9.03		
680-87320-19	CV0748AC-GS	3087115	7.80	2857461	9.03		
680-87320-20	CV0748AB-GS	2919807	7.80	2787358	9.03		
680-87320-A-21-B MS		2919460	7.80	2747924	9.02		
680-87320-A-21-C MSD		2881081	7.80	2721533	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.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: FM0018A-CS | Lab Sample ID: 680-87320-1

Matrix: Solid | Lab File ID: 1AB19015.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:05

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 15.25(g) | Date Analyzed: 02/19/2013 15:27

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

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

% Moisture: 12.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	450	U	450	90
208-96-8	Acenaphthylene	180	U	180	22
120-12-7	Anthracene	26	J	38	19
56-55-3	Benzo[a]anthracene	120		36	18
50-32-8	Benzo[a]pyrene	60		47	23
205-99-2	Benzo[b]fluoranthene	95		55	27
191-24-2	Benzo[g,h,i]perylene	91		90	20
207-08-9	Benzo[k]fluoranthene	35	J	36	16
218-01-9	Chrysene	160		40	20
53-70-3	Dibenz(a,h)anthracene	39	J	90	18
206-44-0	Fluoranthene	98		90	18
86-73-7	Fluorene	90	U	90	18
193-39-5	Indeno[1,2,3-cd]pyrene	66	J	90	32
90-12-0	1-Methylnaphthalene	66	J	180	20
91-57-6	2-Methylnaphthalene	78	J	180	32
91-20-3	Naphthalene	70	J	180	20
85-01-8	Phenanthrene	160		36	18
129-00-0	Pyrene	94		90	17

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\BSMA5973.i\1A021913.b\1AB19015.D
Lab Smp Id: 680-87320-A-1-A Client Smp ID: FM0018A-CS
Inj Date : 19-FEB-2013 15:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-1-a
Misc Info : 680-87320-A-1-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.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	15.250	Weight Extracted
M	12.478	% 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	2.410	2.405	(1.000)	708952	40.0000	
* 6 Acenaphthene-d10	164	3.436	3.431	(1.000)	522024	40.0000	
* 10 Phenanthrene-d10	188	4.376	4.371	(1.000)	707132	40.0000	
$ 14 o-Terphenyl	230	4.654	4.649	(1.063)	19604	1.90793	571.7886
* 18 Chrysene-d12	240	6.401	6.390	(1.000)	490973	40.0000	
* 23 Perylene-d12	264	7.501	7.480	(1.000)	749311	40.0000	
2 Naphthalene	128	2.421	2.416	(1.004)	4007	0.23286	69.7852
3 2-Methylnaphthalene	141	2.821	2.816	(1.171)	2393	0.25958	77.7944
4 1-Methylnaphthalene	142	2.875	2.875	(1.193)	2293	0.21973	65.8515
11 Phenanthrene	178	4.387	4.387	(1.002)	10138	0.52507	157.3599
12 Anthracene	178	4.424	4.419	(1.011)	1732	0.08798	26.3679
13 Carbazole	167	4.579	4.574	(1.046)	1462	0.08664	25.9656(Q)
15 Fluoranthene	202	5.257	5.247	(1.201)	6233	0.32561	97.5827
16 Pyrene	202	5.423	5.413	(0.847)	5542	0.31255	93.6686

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.395	6.374	(0.999)	5872	0.40055	120.0414(M)
19 Chrysene	228	6.411	6.406	(1.002)	7576	0.53019	158.8928(M)
20 Benzo(b)fluoranthene	252	7.213	7.202	(0.962)	6628	0.31693	94.9794(M)
21 Benzo(k)fluoranthene	252	7.229	7.224	(0.964)	2534	0.11589	34.7308(QMH)
22 Benzo(a)pyrene	252	7.442	7.432	(0.992)	3991	0.20096	60.2256
24 Indeno(1,2,3-cd)pyrene	276	8.222	8.212	(1.096)	3470	0.22128	66.3141(M)
25 Dibenzo(a,h)anthracene	278	8.233	8.228	(1.098)	2037	0.12993	38.9398(M)
26 Benzo(g,h,i)perylene	276	8.436	8.420	(1.125)	4944	0.30432	91.2003

QC Flag Legend

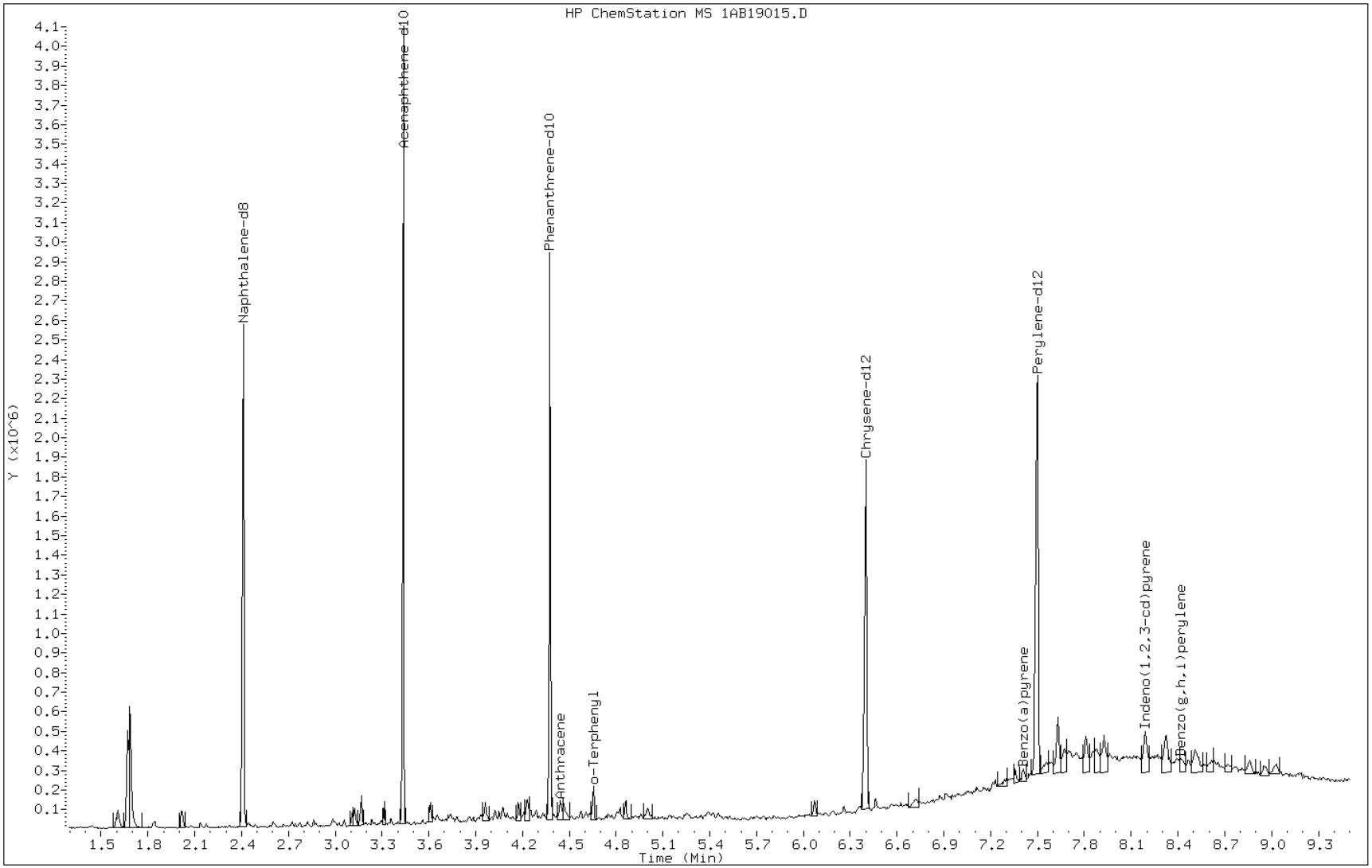
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

Client ID: FM0018A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a Operator: SCC



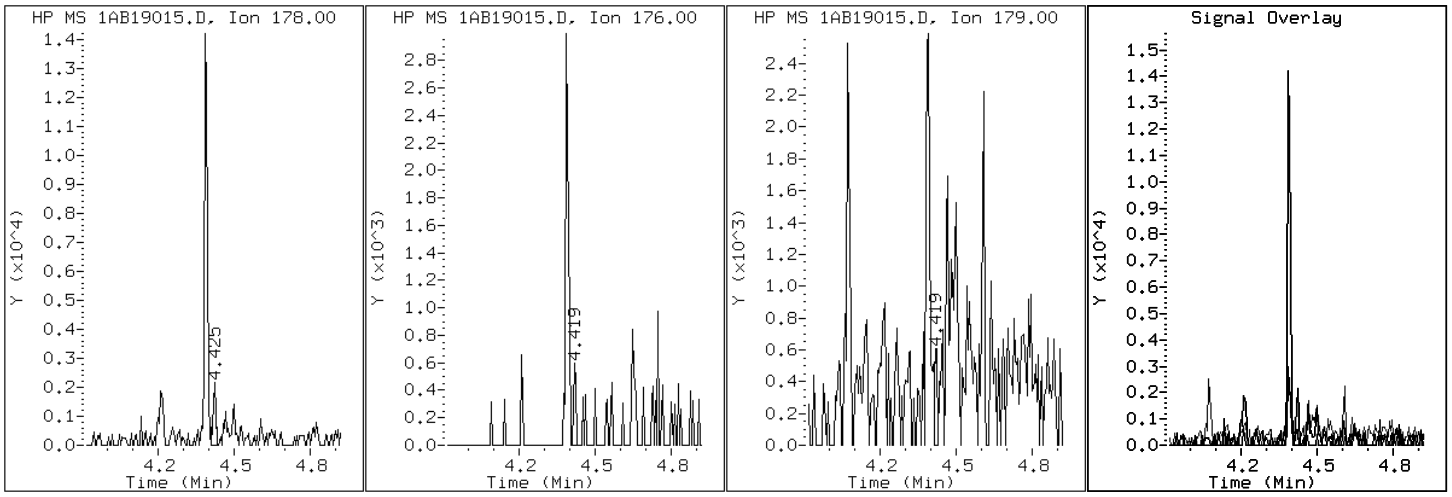
Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

Client ID: FM0018A-CS | Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a | Operator: SCC

12 Anthracene



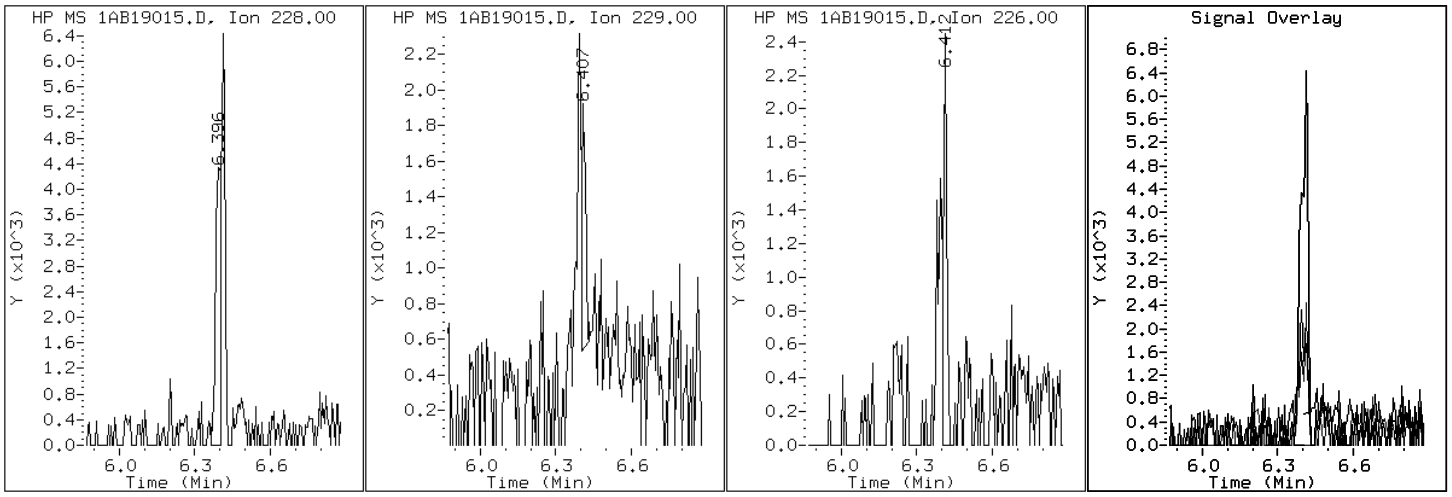
Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

Client ID: FM0018A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a Operator: SCC

17 Benzo(a)anthracene



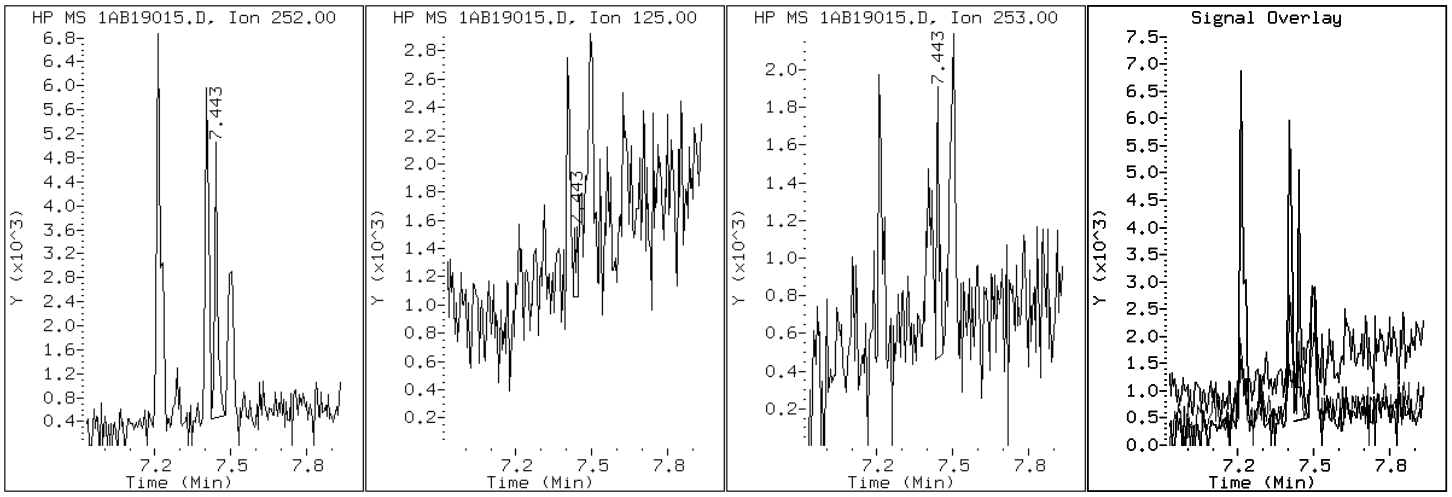
Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

Client ID: FM0018A-CS | Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a | Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

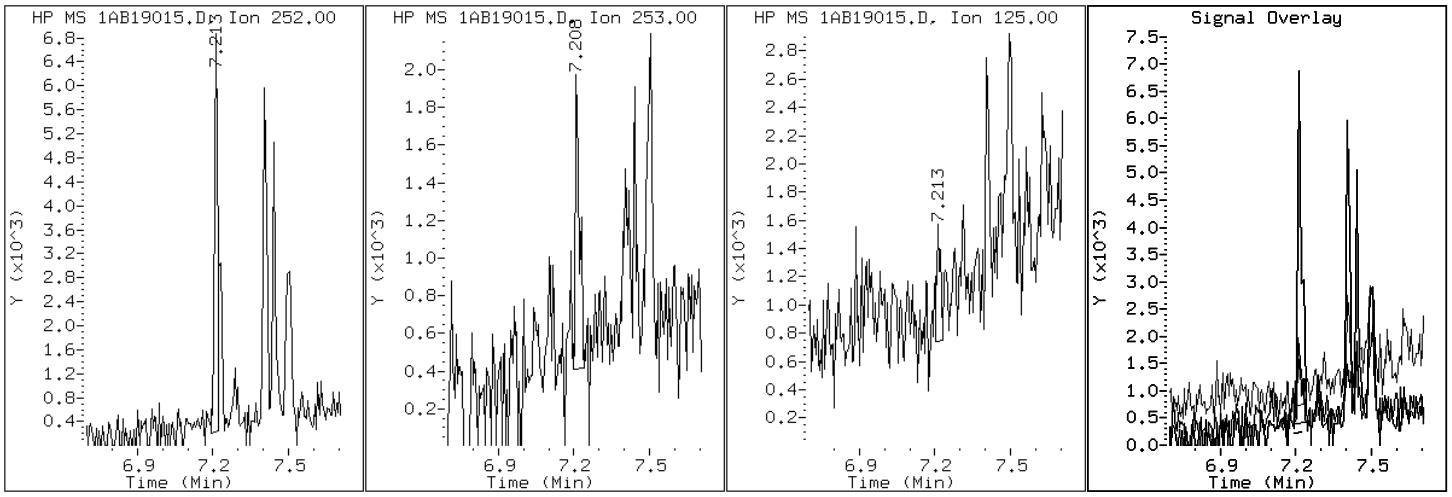
Client ID: FM0018A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

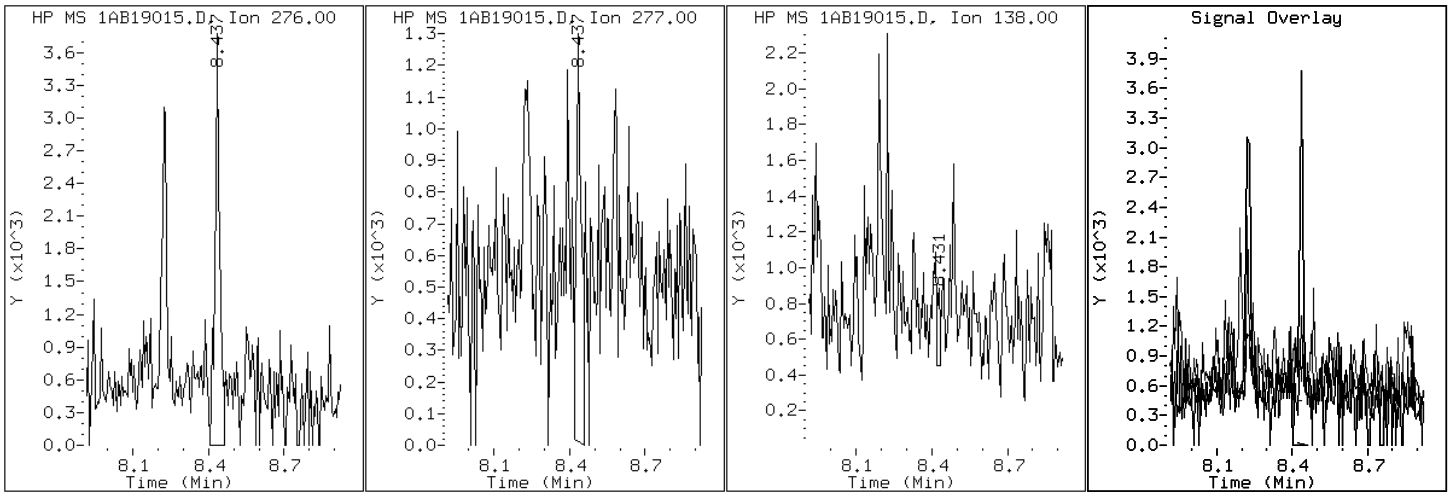
Client ID: FM0018A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

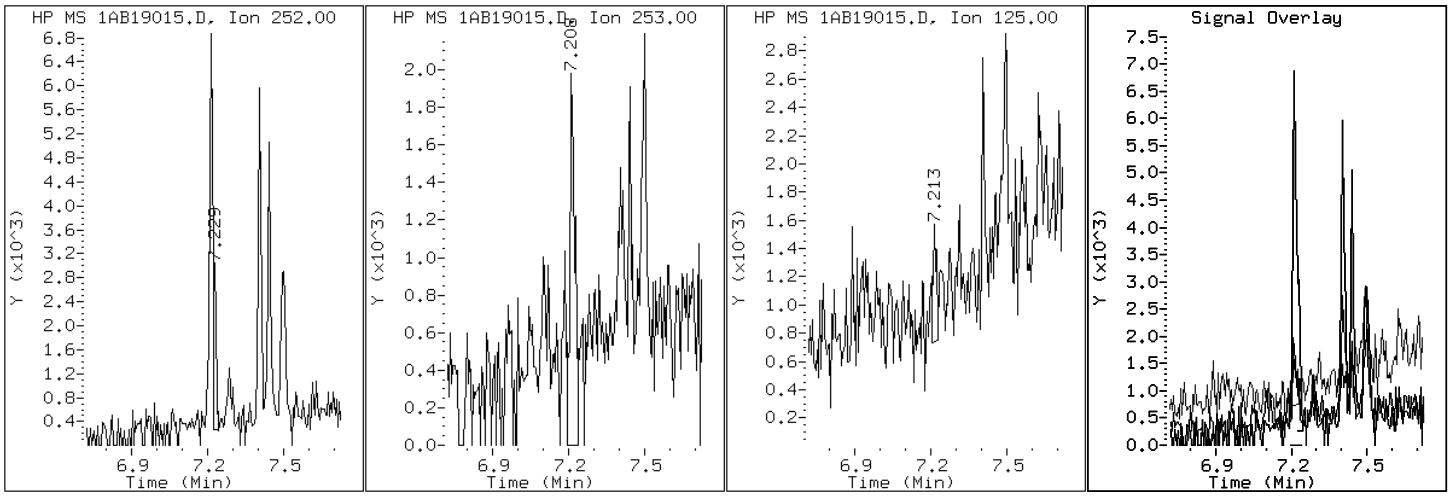
Client ID: FM0018A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a

Operator: SCC

21 Benzo(k)fluoranthene



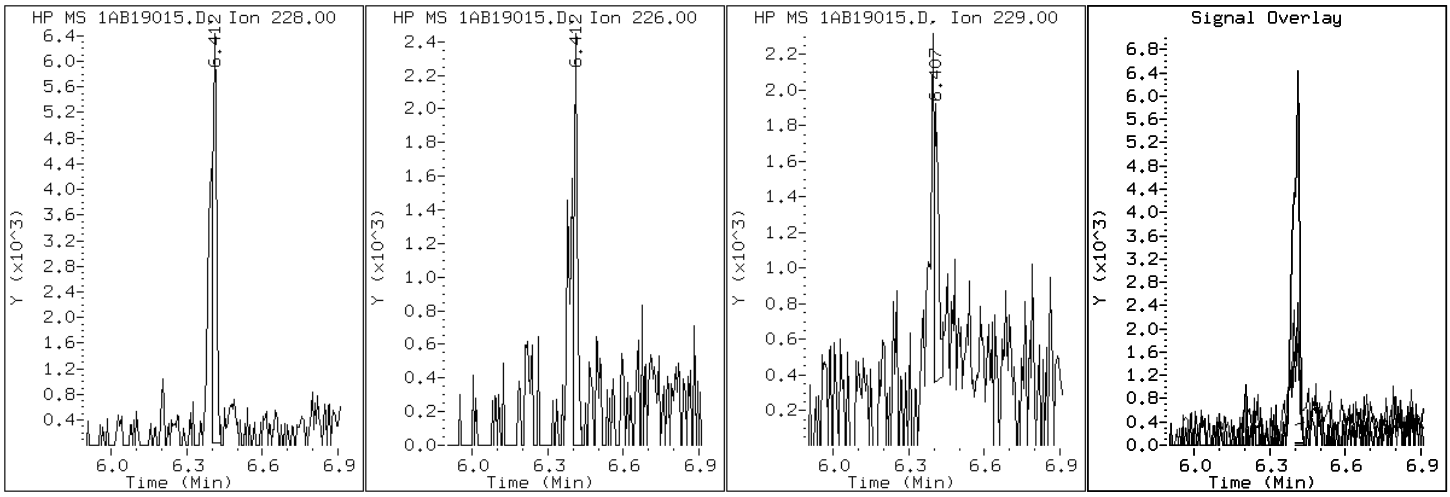
Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

Client ID: FM0018A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a Operator: SCC

19 Chrysene



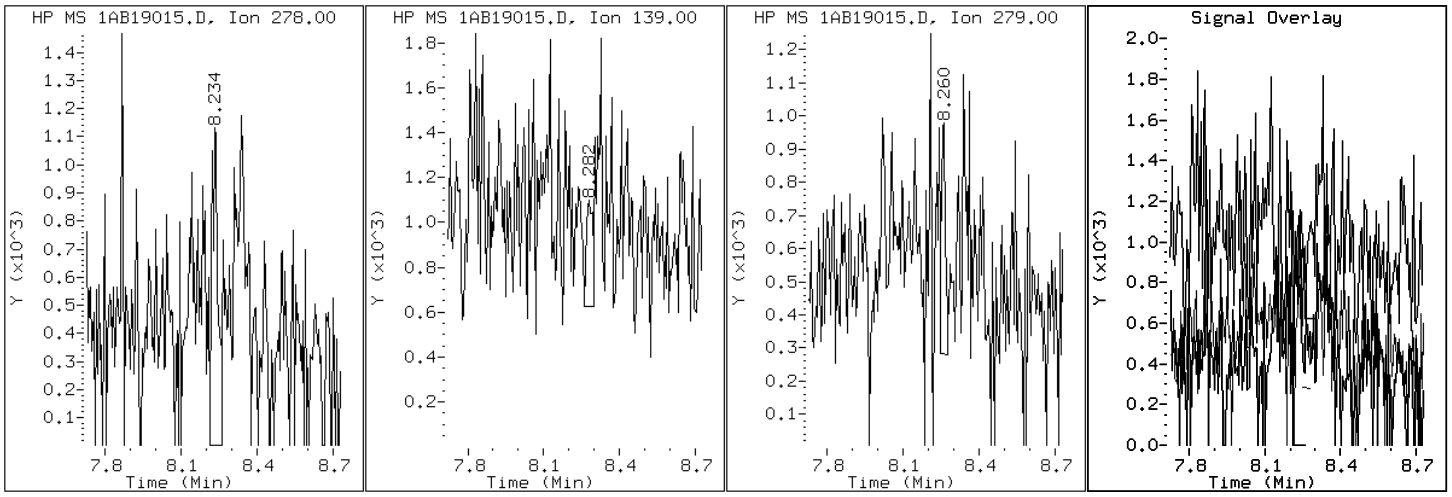
Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

Client ID: FM0018A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a Operator: SCC

25 Dibenzo(a,h)anthracene



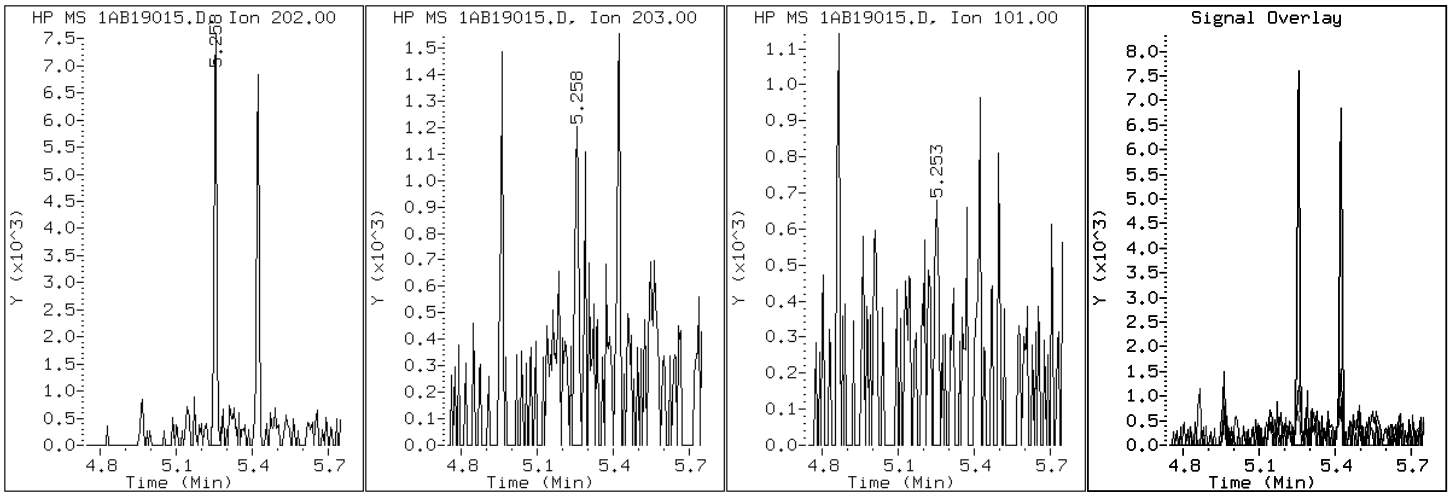
Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

Client ID: FM0018A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a Operator: SCC

15 Fluoranthene



Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

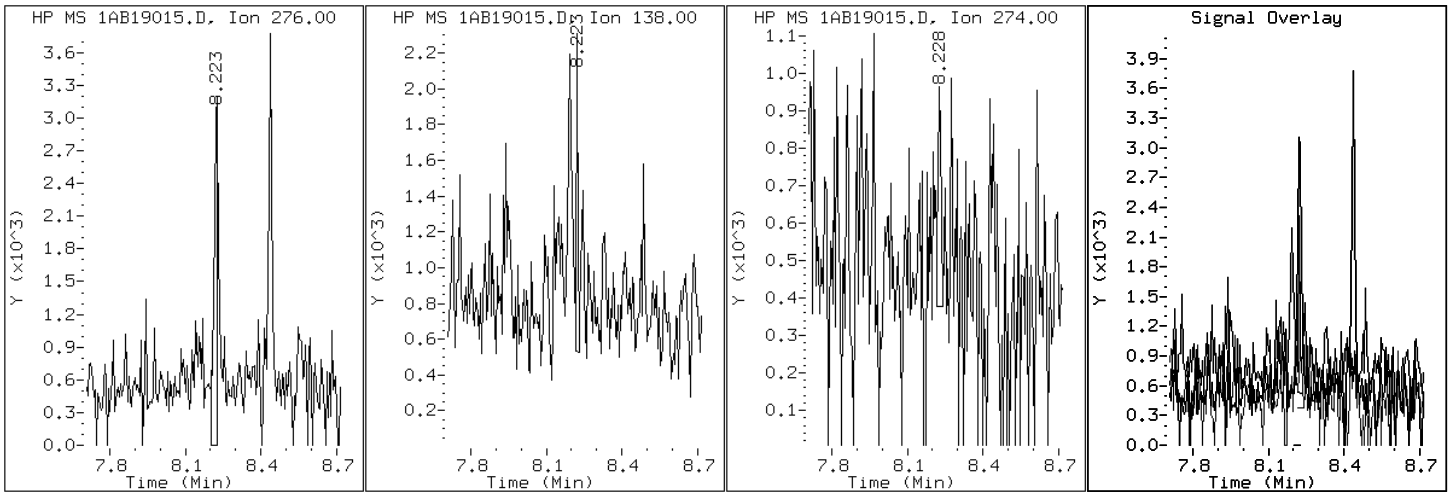
Client ID: FM0018A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a

Operator: SCC

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



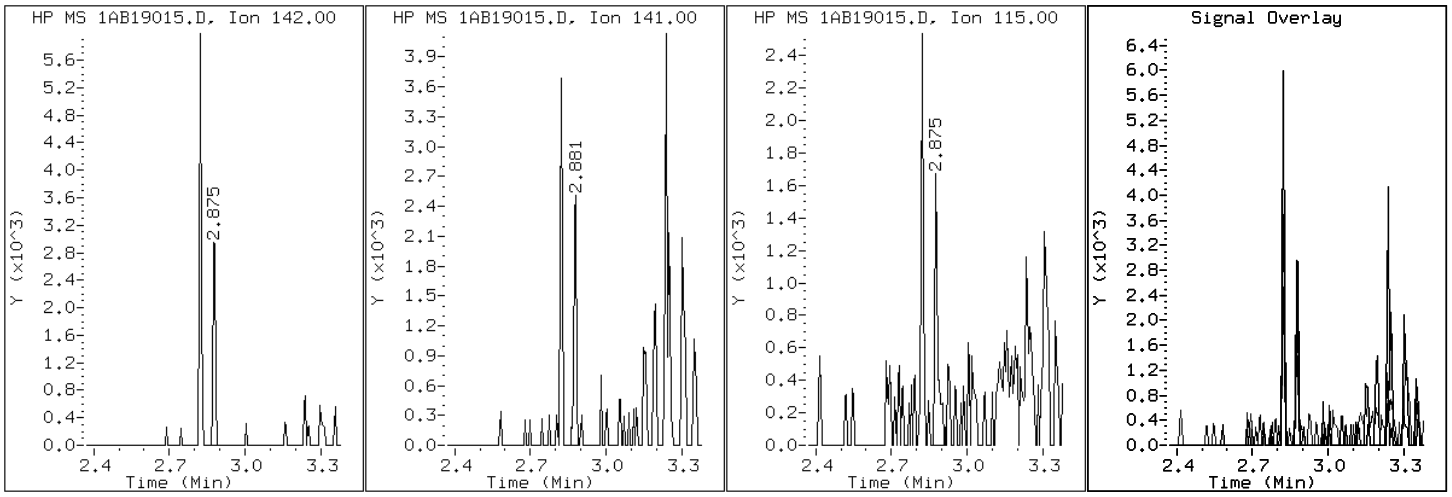
Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

Client ID: FM0018A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

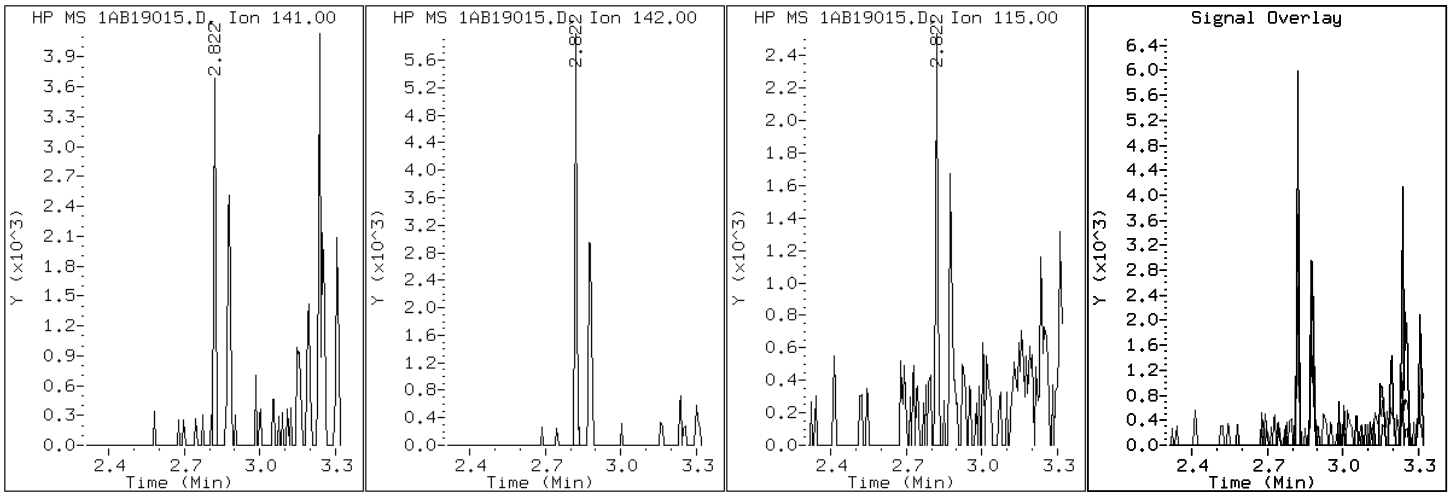
Client ID: FM0018A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

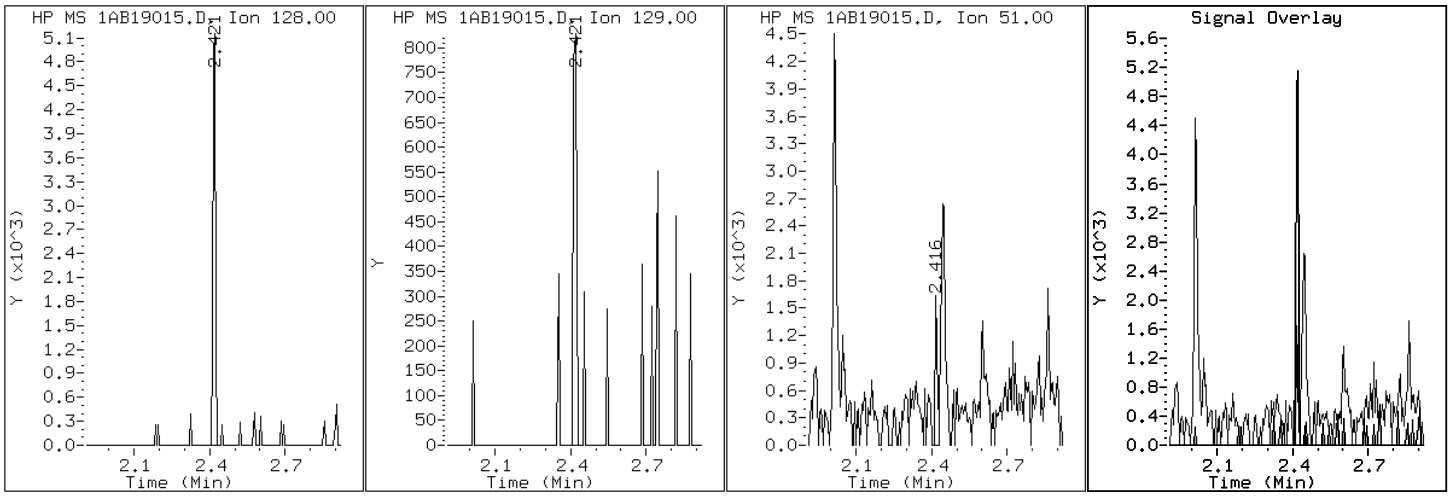
Client ID: FM0018A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

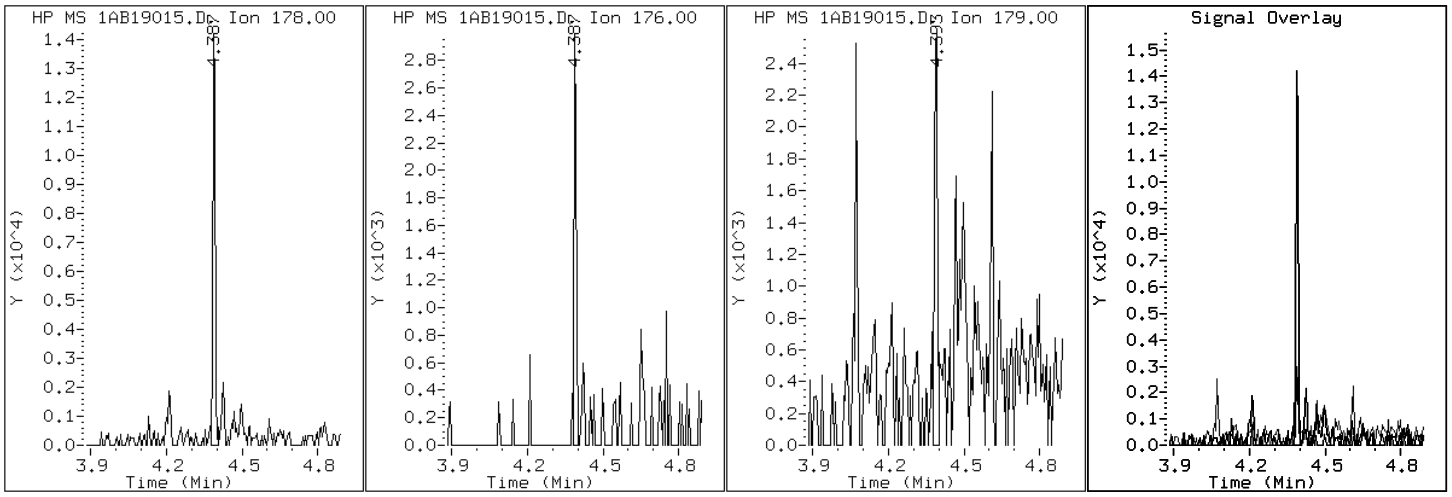
Client ID: FM0018A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a

Operator: SCC

11 Phenanthrene



Data File: 1AB19015.D

Date: 19-FEB-2013 15:27

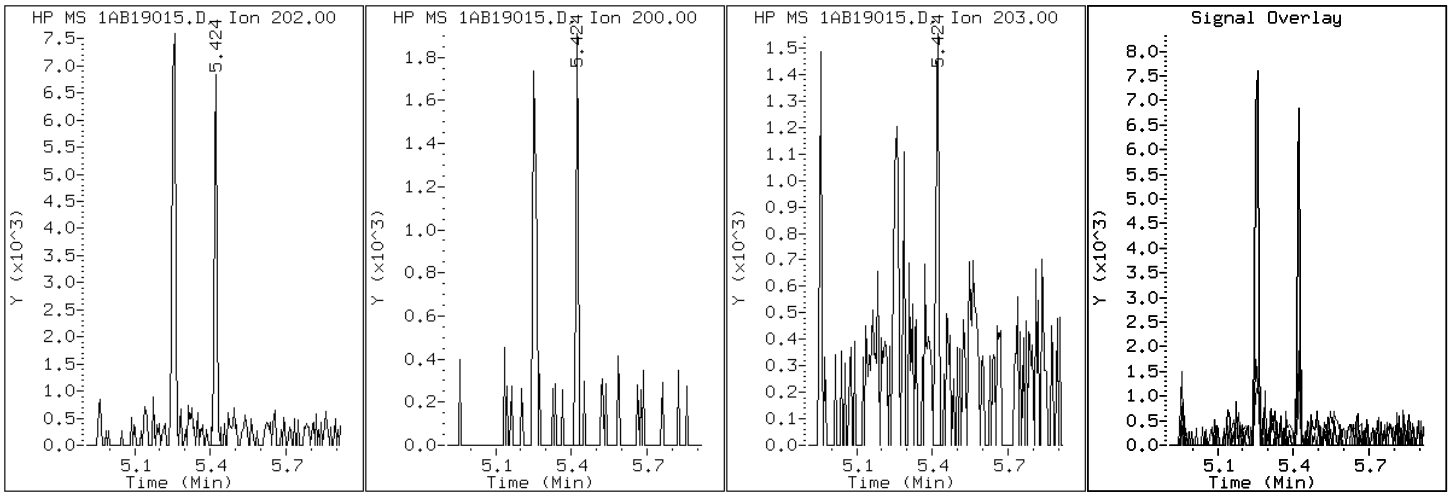
Client ID: FM0018A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB19015.D
Inj. Date and Time: 19-FEB-2013 15:27
Instrument ID: BSMA5973.i
Client ID: FM0018A-CS
Compound: 17 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 02/20/2013

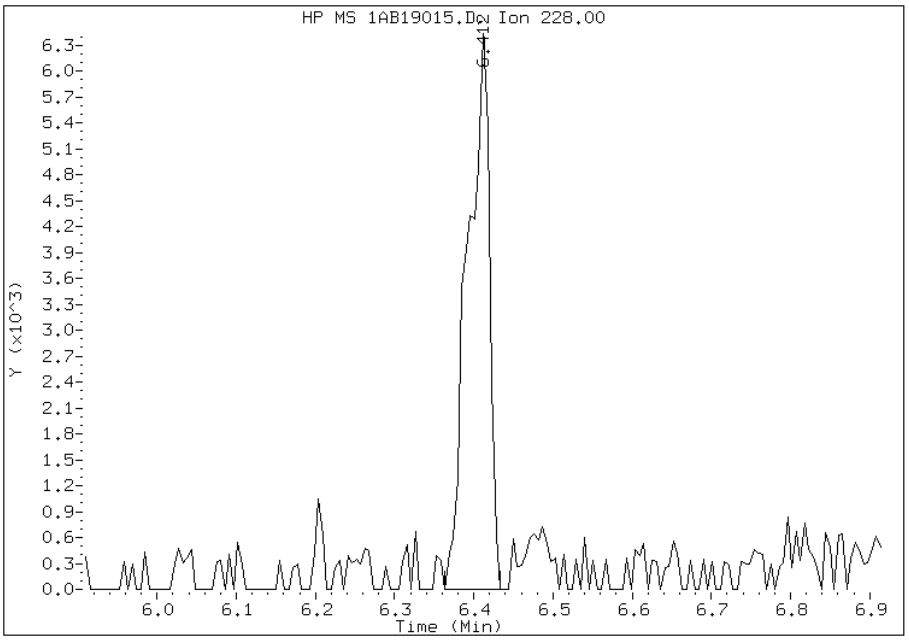
Processing Integration Results

RT: 6.41

Response: 12178

Amount: 1

Conc: 249



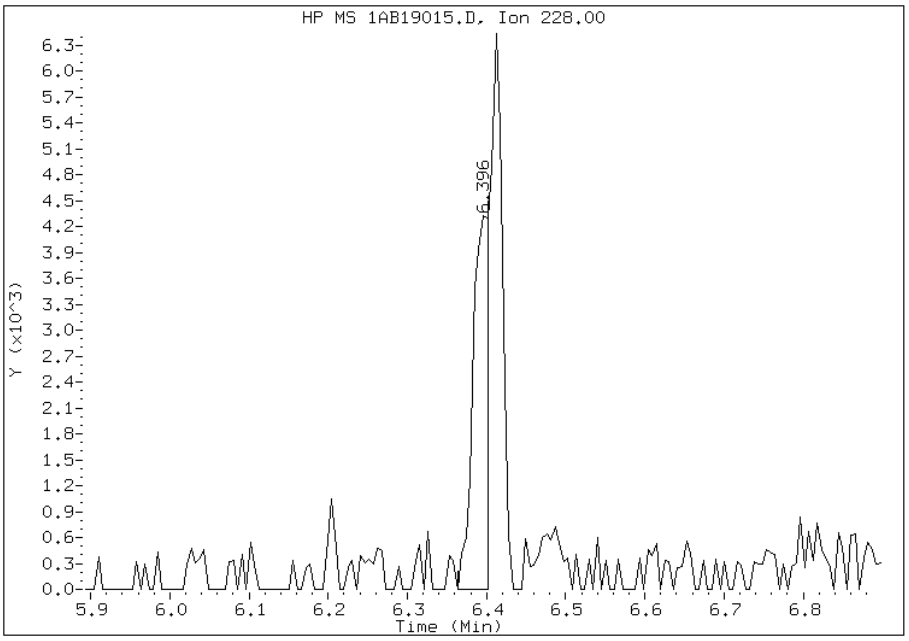
Manual Integration Results

RT: 6.40

Response: 5872

Amount: 0

Conc: 120



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19015.D
Inj. Date and Time: 19-FEB-2013 15:27
Instrument ID: BSMA5973.i
Client ID: FM0018A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

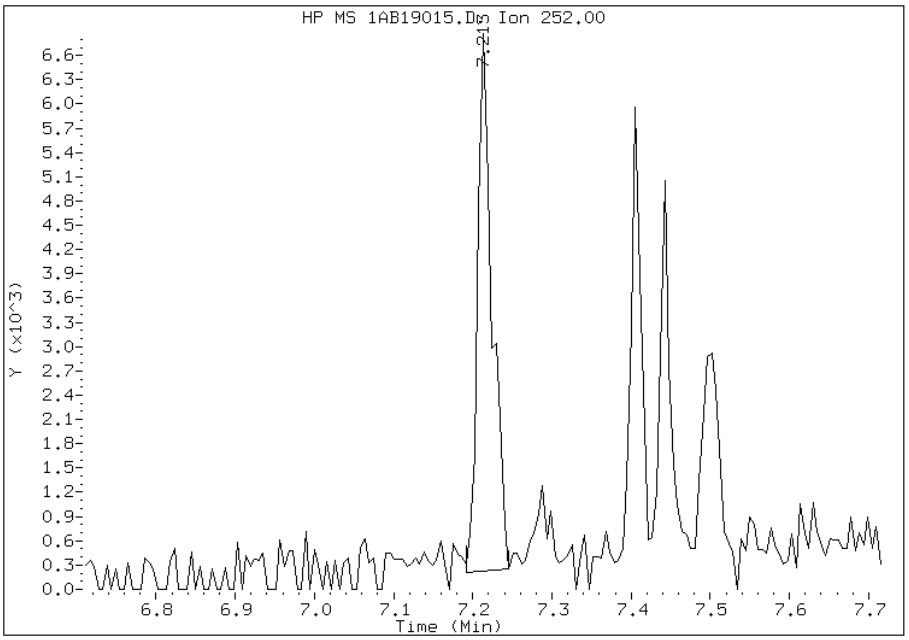
Processing Integration Results

RT: 7.21

Response: 8305

Amount: 0

Conc: 119



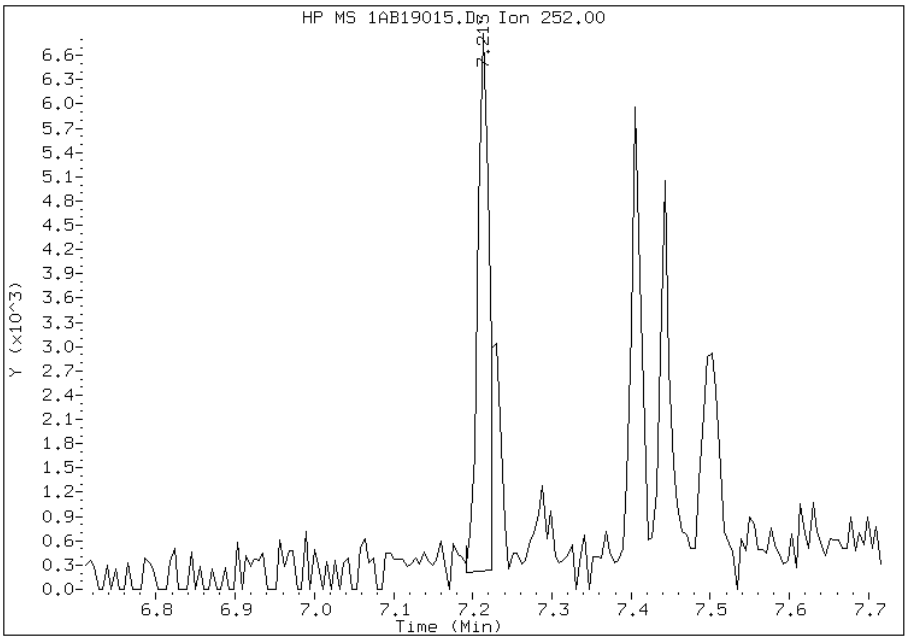
Manual Integration Results

RT: 7.21

Response: 6628

Amount: 0

Conc: 95



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19015.D
Inj. Date and Time: 19-FEB-2013 15:27
Instrument ID: BSMA5973.i
Client ID: FM0018A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

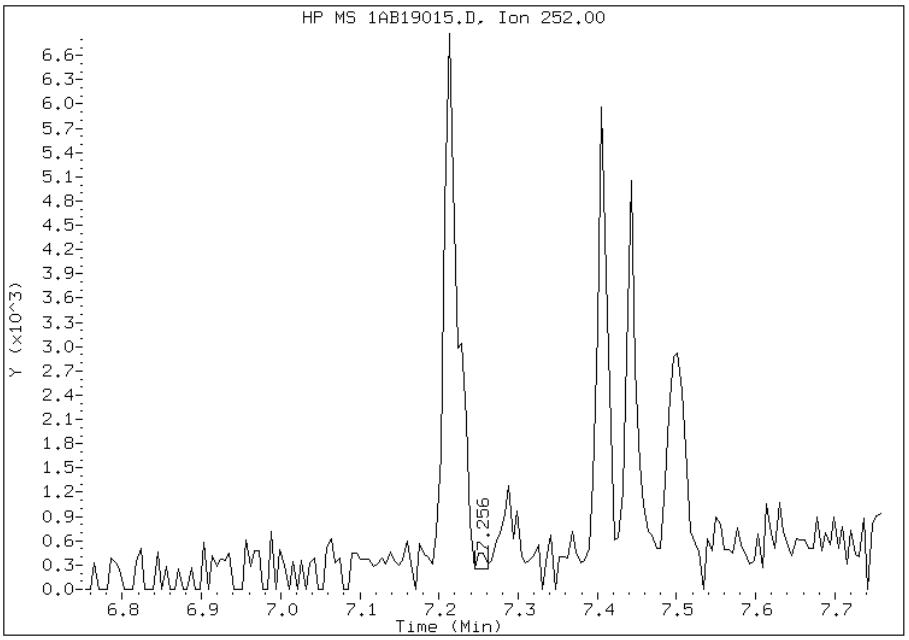
Processing Integration Results

RT: 7.26

Response: 144

Amount: 0

Conc: 2



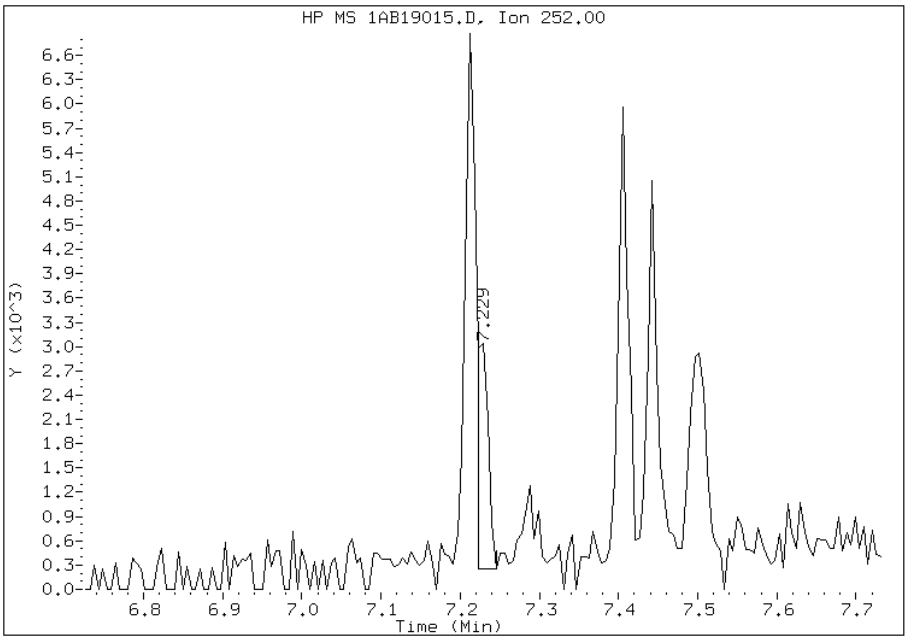
Manual Integration Results

RT: 7.23

Response: 2534

Amount: 0

Conc: 35



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19015.D
Inj. Date and Time: 19-FEB-2013 15:27
Instrument ID: BSMA5973.i
Client ID: FM0018A-CS
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 02/20/2013

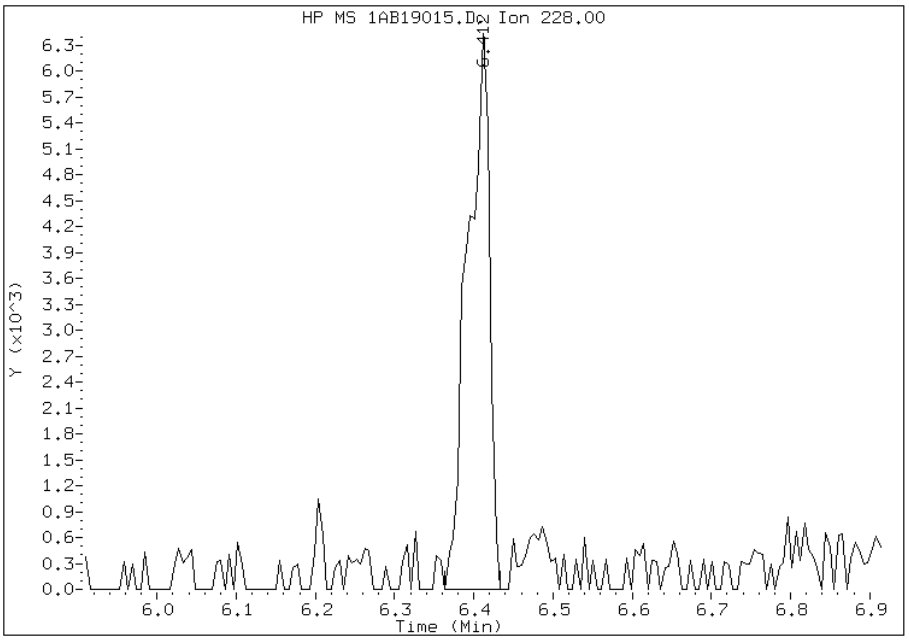
Processing Integration Results

RT: 6.41

Response: 12178

Amount: 1

Conc: 255



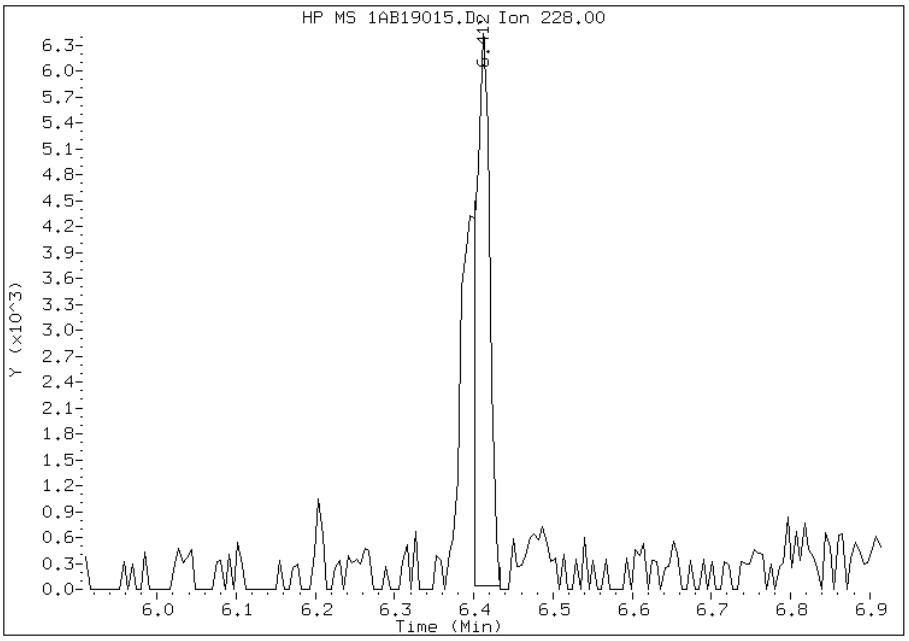
Manual Integration Results

RT: 6.41

Response: 7576

Amount: 1

Conc: 159



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19015.D
Inj. Date and Time: 19-FEB-2013 15:27
Instrument ID: BSMA5973.i
Client ID: FM0018A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/20/2013

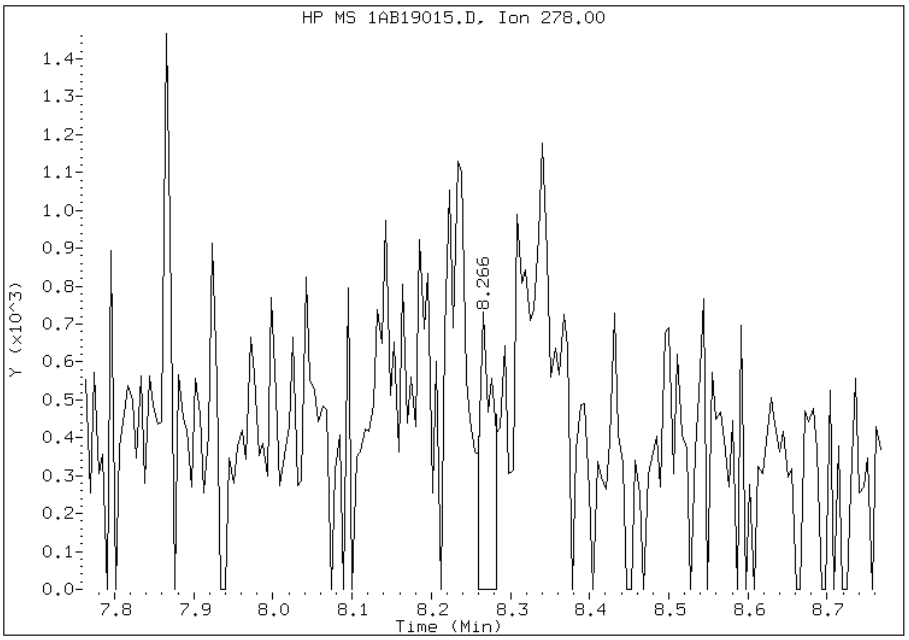
Processing Integration Results

RT: 8.27

Response: 809

Amount: 0

Conc: 15



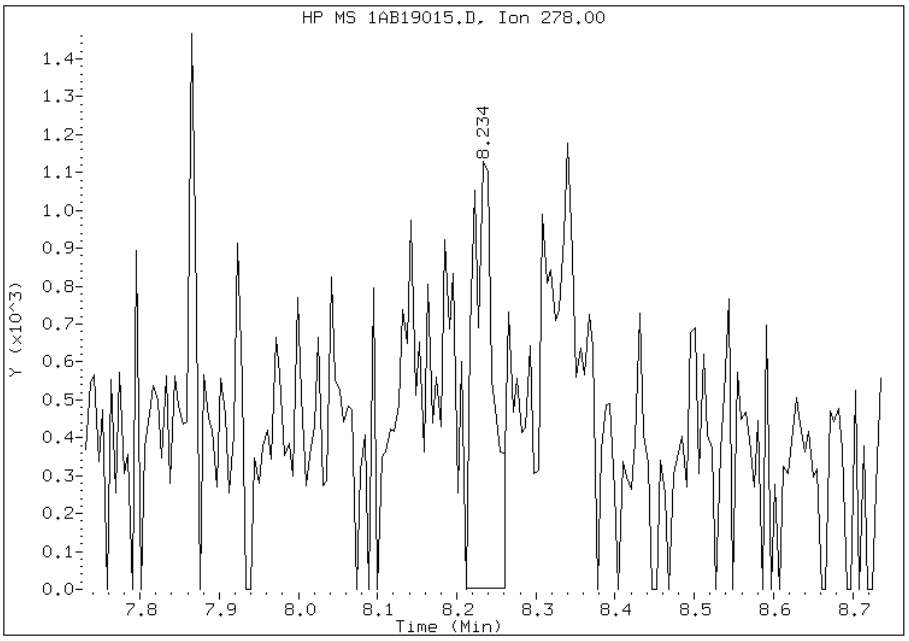
Manual Integration Results

RT: 8.23

Response: 2037

Amount: 0

Conc: 39



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:28
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1AB19015.D
Inj. Date and Time: 19-FEB-2013 15:27
Instrument ID: BSMA5973.i
Client ID: FM0018A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

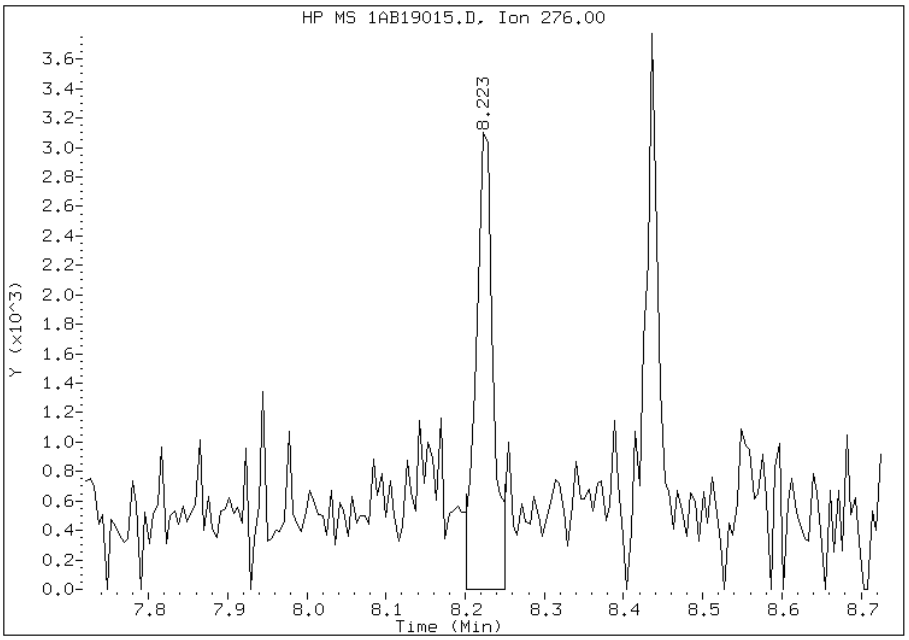
Processing Integration Results

RT: 8.22

Response: 4679

Amount: 0

Conc: 89



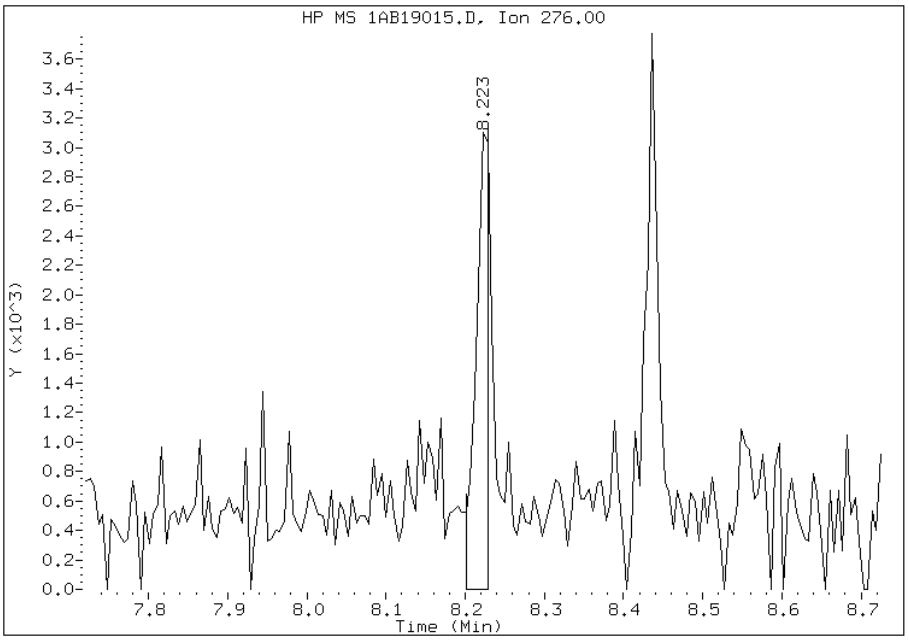
Manual Integration Results

RT: 8.22

Response: 3470

Amount: 0

Conc: 66



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: FM0034A-CS | Lab Sample ID: 680-87320-2

Matrix: Solid | Lab File ID: 1AB19018.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:20

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 14.94(g) | Date Analyzed: 02/19/2013 16:13

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

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

% Moisture: 21.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	200	U	200	26
120-12-7	Anthracene	43	U	43	21
56-55-3	Benzo[a]anthracene	120		41	20
50-32-8	Benzo[a]pyrene	47	J	53	27
205-99-2	Benzo[b]fluoranthene	70		62	31
191-24-2	Benzo[g,h,i]perylene	65	J	100	22
207-08-9	Benzo[k]fluoranthene	26	J	41	18
218-01-9	Chrysene	72		46	23
53-70-3	Dibenz(a,h)anthracene	25	J	100	21
206-44-0	Fluoranthene	90	J	100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	53	J	100	36
90-12-0	1-Methylnaphthalene	36	J	200	22
91-57-6	2-Methylnaphthalene	38	J	200	36
91-20-3	Naphthalene	58	J	200	22
85-01-8	Phenanthrene	83		41	20
129-00-0	Pyrene	58	J	100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\1AB19018.D
Lab Smp Id: 680-87320-A-2-A Client Smp ID: FM0034A-CS
Inj Date : 19-FEB-2013 16:13
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-2-a
Misc Info : 680-87320-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 18
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	21.338	% 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	2.410	2.405	(1.000)	730411	40.0000	
* 6 Acenaphthene-d10	164	3.436	3.431	(1.000)	529786	40.0000	
* 10 Phenanthrene-d10	188	4.376	4.371	(1.000)	758843	40.0000	
$ 14 o-Terphenyl	230	4.654	4.649	(1.063)	22892	2.07611	706.6325
* 18 Chrysene-d12	240	6.401	6.390	(1.000)	565133	40.0000	
* 23 Perylene-d12	264	7.501	7.480	(1.000)	741502	40.0000	
2 Naphthalene	128	2.421	2.416	(1.004)	3046	0.17181	58.4782
3 2-Methylnaphthalene	141	2.822	2.816	(1.171)	1057	0.11129	37.8792(Q)
4 1-Methylnaphthalene	142	2.875	2.875	(1.193)	1133	0.10538	35.8683
11 Phenanthrene	178	4.387	4.387	(1.002)	5034	0.24296	82.6940
15 Fluoranthene	202	5.252	5.247	(1.200)	5402	0.26297	89.5054
16 Pyrene	202	5.423	5.413	(0.847)	3507	0.17183	58.4845
17 Benzo(a)anthracene	228	6.401	6.374	(1.000)	5859	0.34722	118.1805
19 Chrysene	228	6.412	6.406	(1.002)	3484	0.21182	72.0974

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
20 Benzo(b)fluoranthene	252	7.213	7.202	(0.962)	4270	0.20633	70.2255(M)
21 Benzo(k)fluoranthene	252	7.229	7.224	(0.964)	1656	0.07653	26.0489(QM)
22 Benzo(a)pyrene	252	7.443	7.432	(0.992)	2698	0.13728	46.7263
24 Indeno(1,2,3-cd)pyrene	276	8.228	8.212	(1.097)	2404	0.15491	52.7268(M)
25 Dibenzo(a,h)anthracene	278	8.239	8.228	(1.098)	1158	0.07464	25.4057(M)
26 Benzo(g,h,i)perylene	276	8.431	8.420	(1.124)	3060	0.19033	64.7828

QC Flag Legend

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

Data File: 1AB19018.D

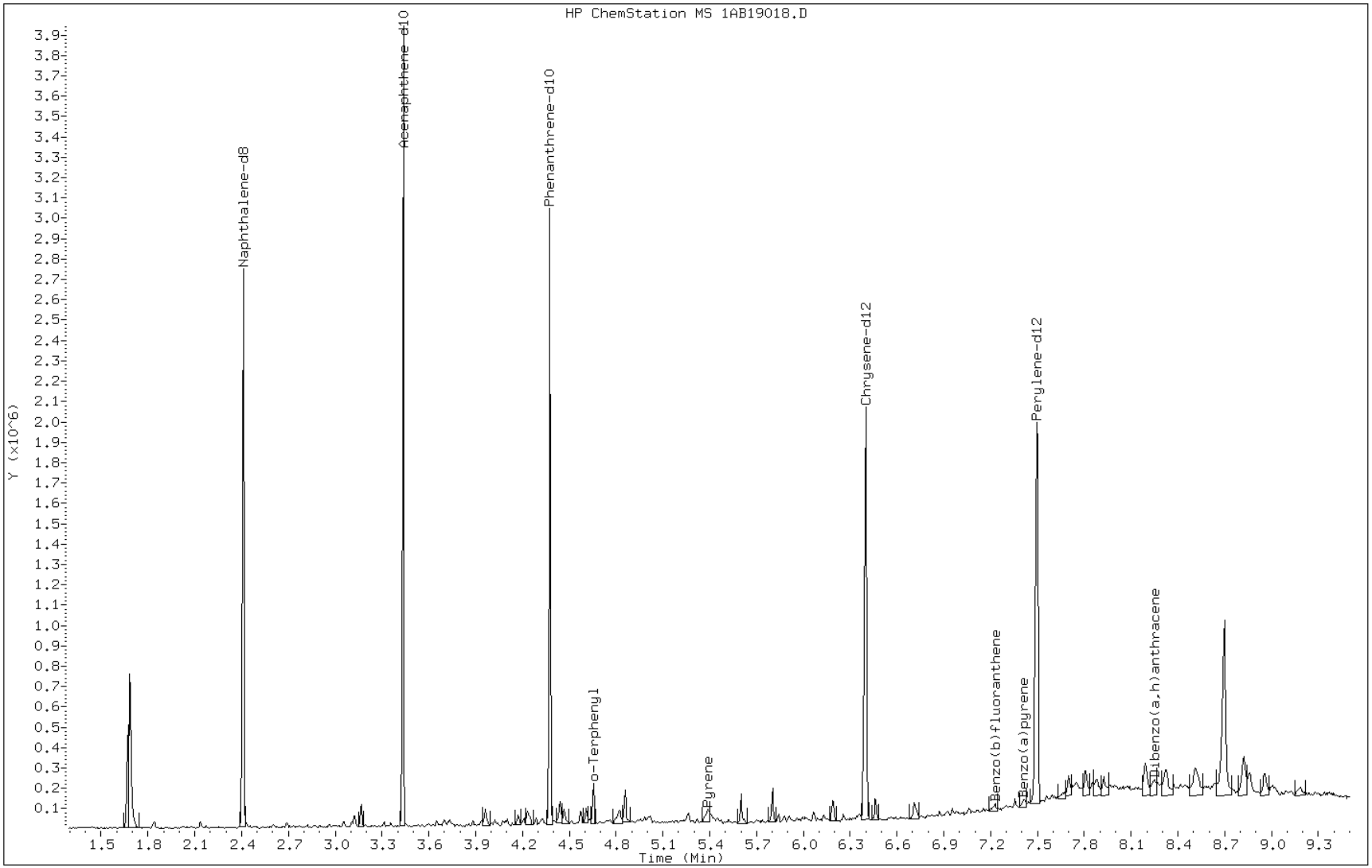
Date: 19-FEB-2013 16:13

Client ID: FM0034A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a

Operator: SCC



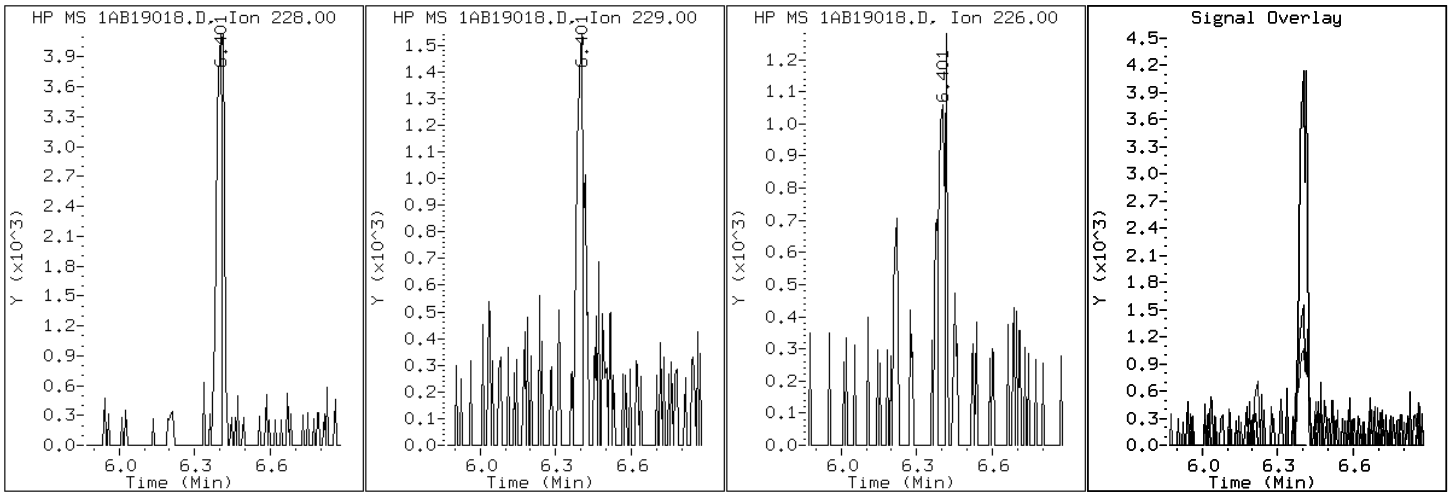
Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

Client ID: FM0034A-CS | Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a | Operator: SCC

17 Benzo(a)anthracene



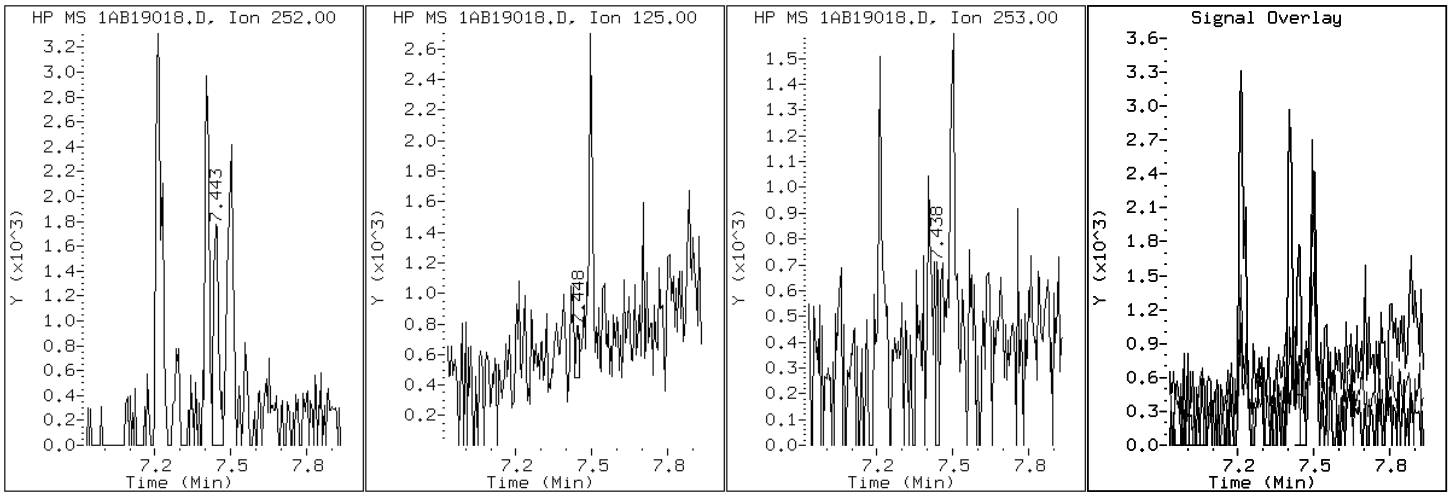
Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

Client ID: FM0034A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

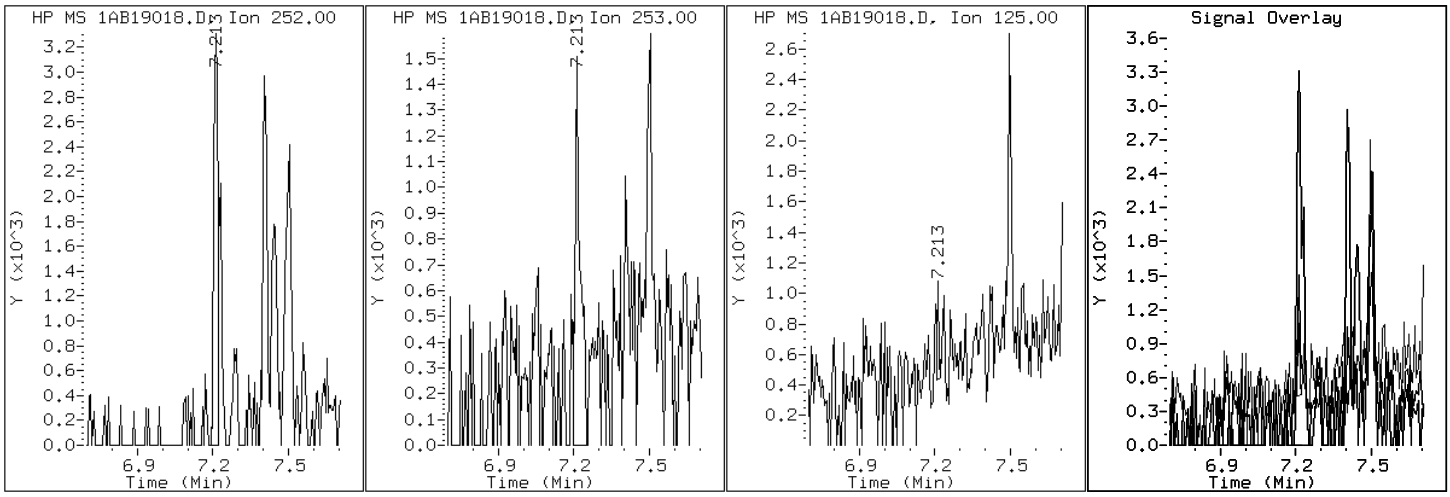
Client ID: FM0034A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

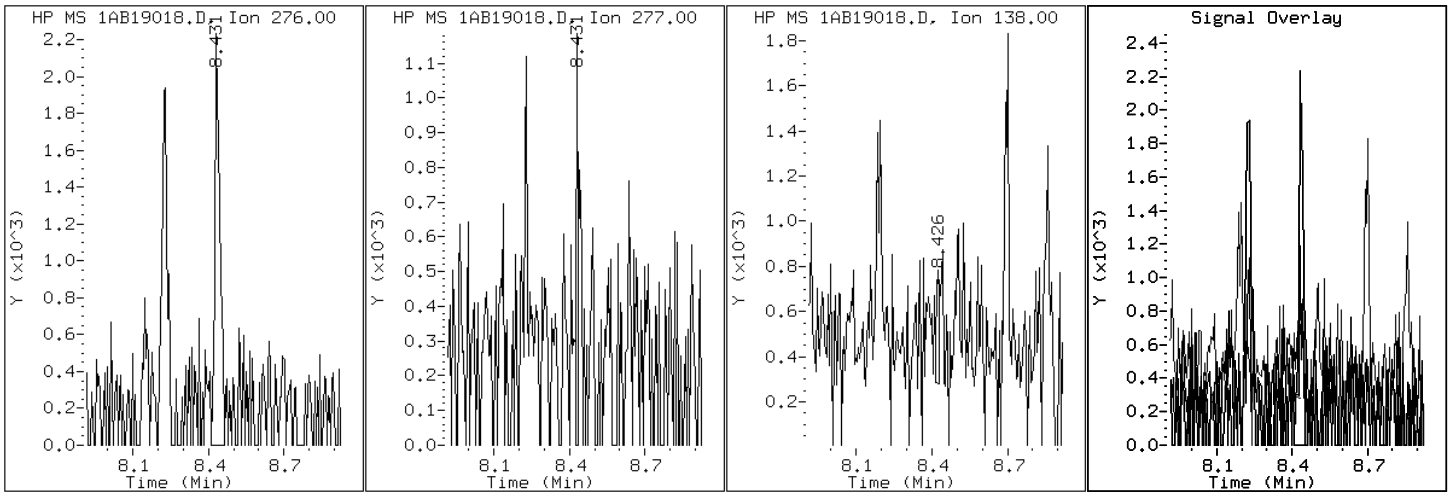
Client ID: FM0034A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



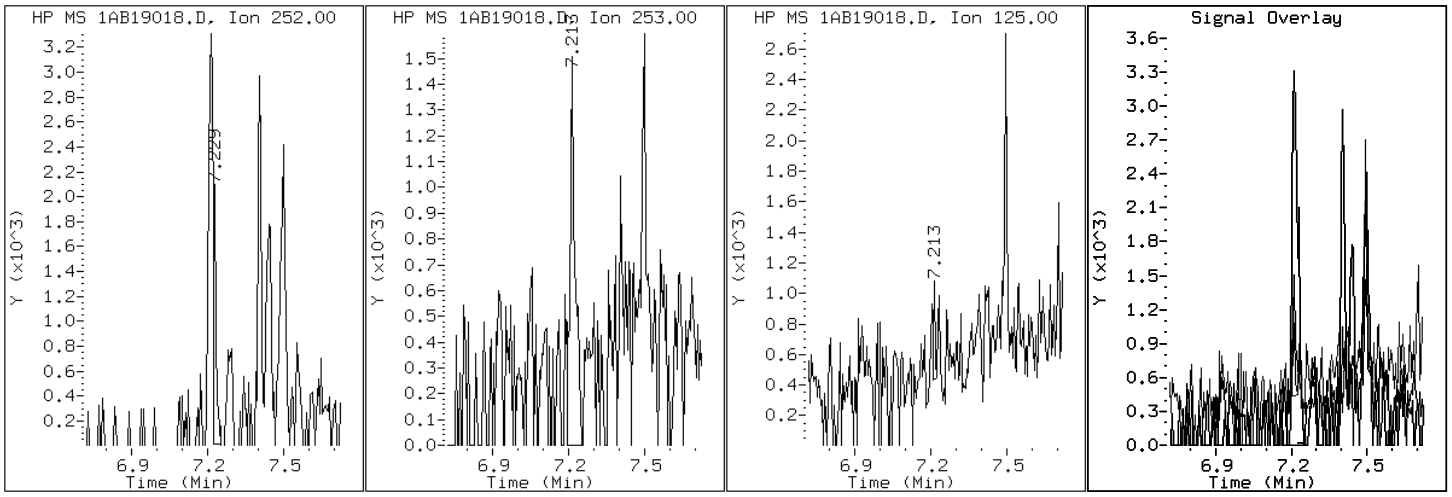
Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

Client ID: FM0034A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

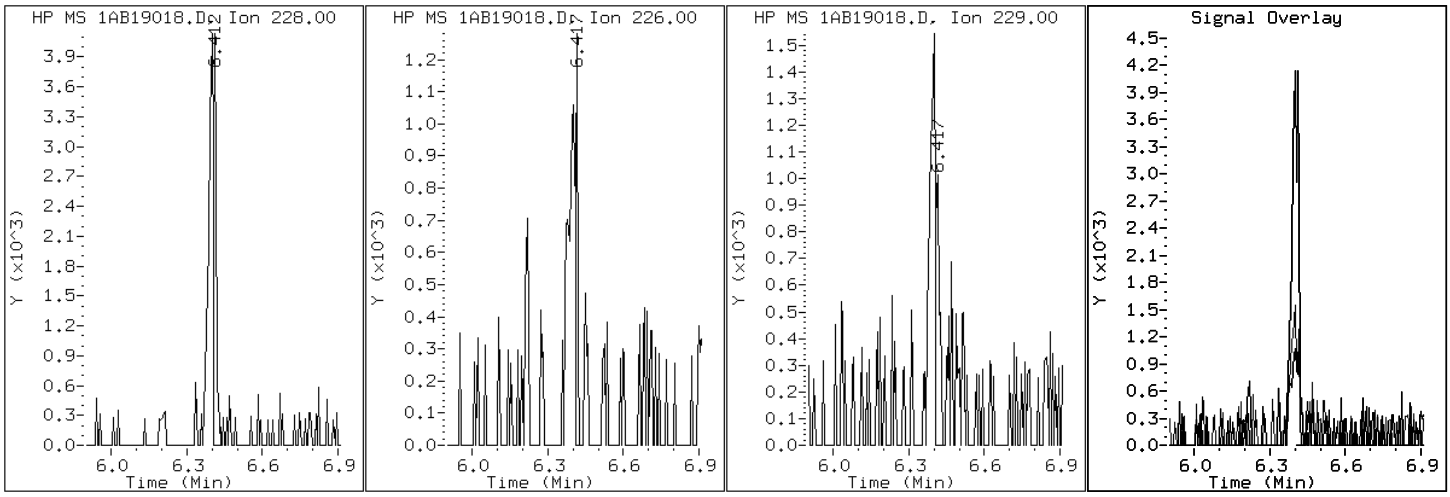
Client ID: FM0034A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a

Operator: SCC

19 Chrysene



Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

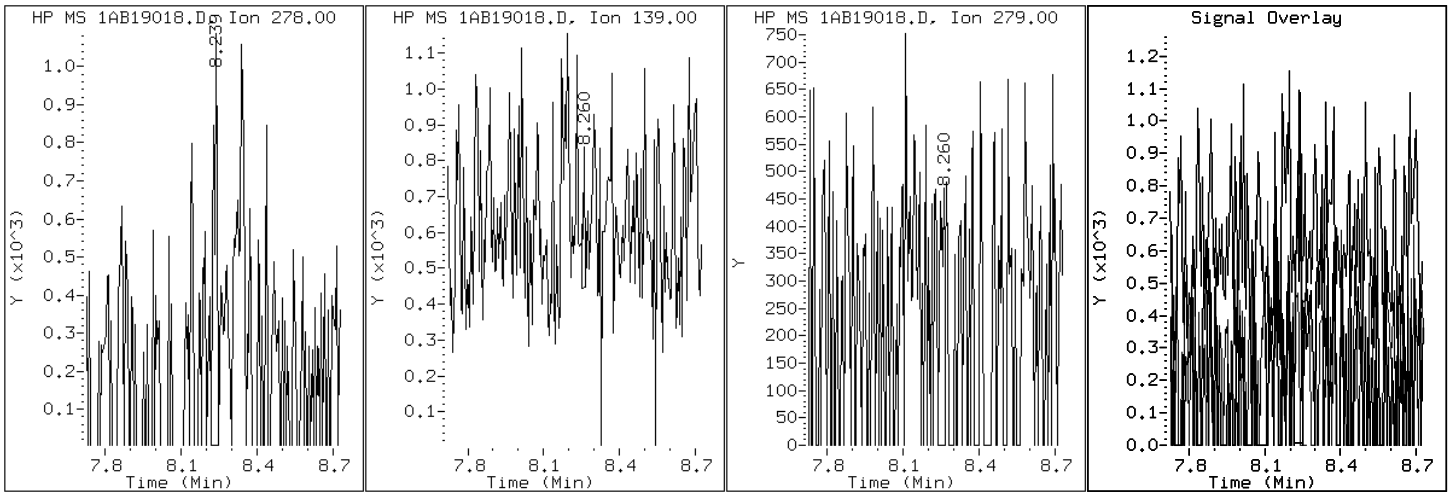
Client ID: FM0034A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

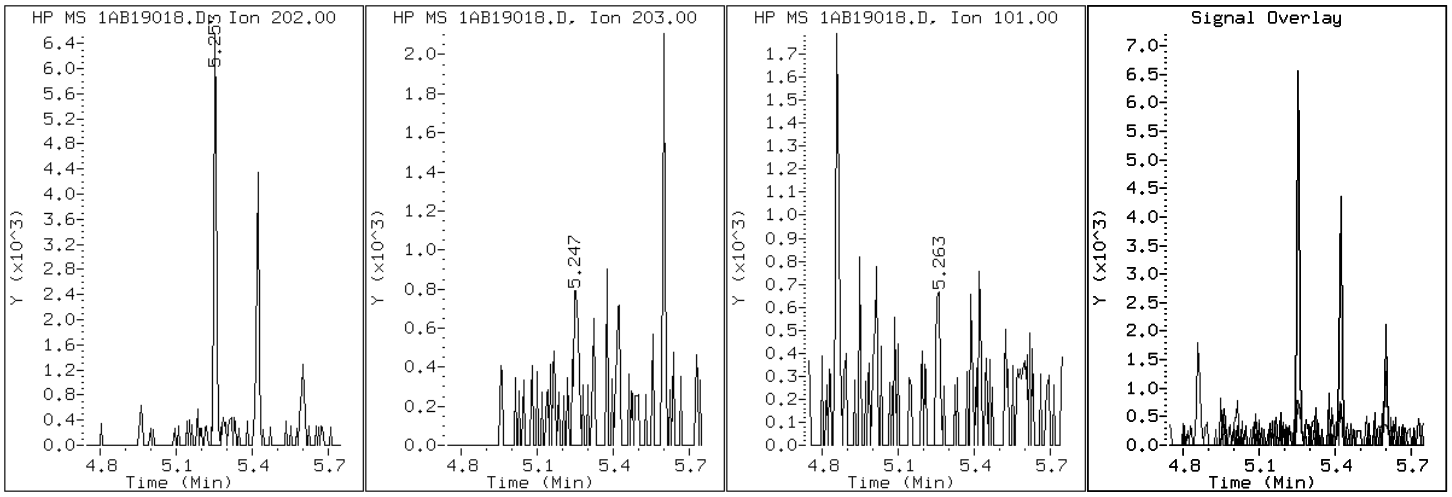
Client ID: FM0034A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a

Operator: SCC

15 Fluoranthene



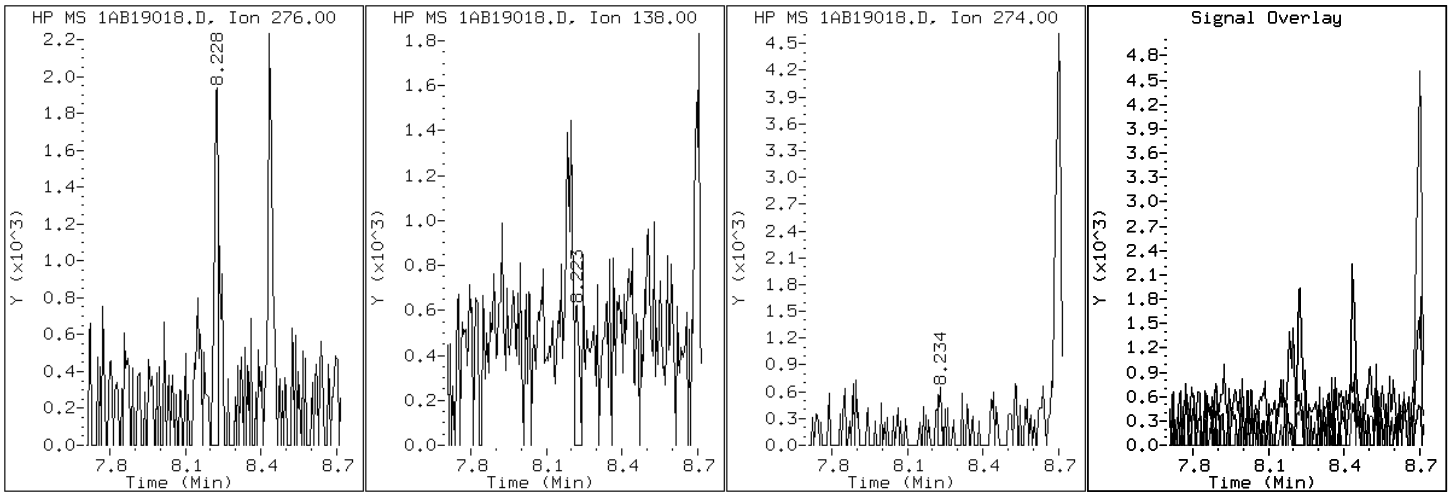
Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

Client ID: FM0034A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a Operator: SCC

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



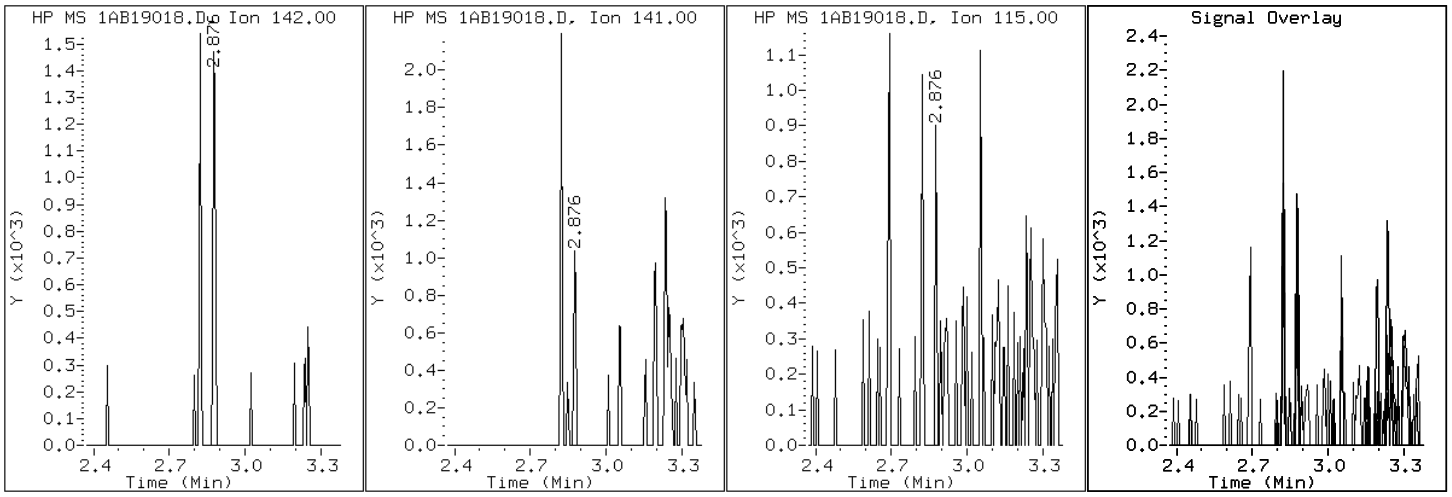
Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

Client ID: FM0034A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

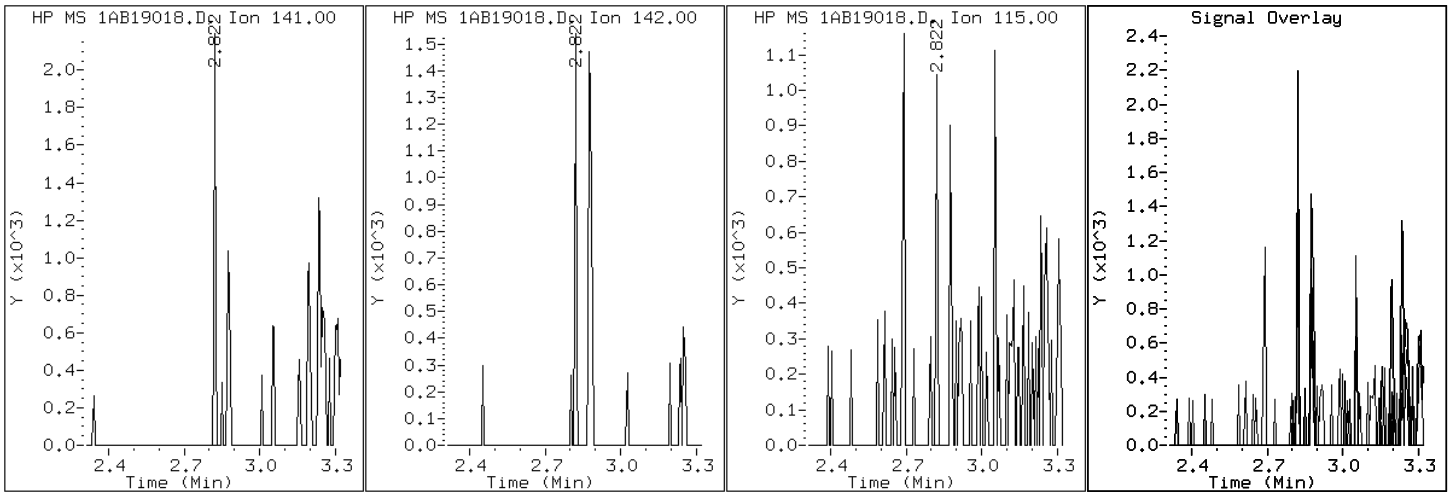
Client ID: FM0034A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

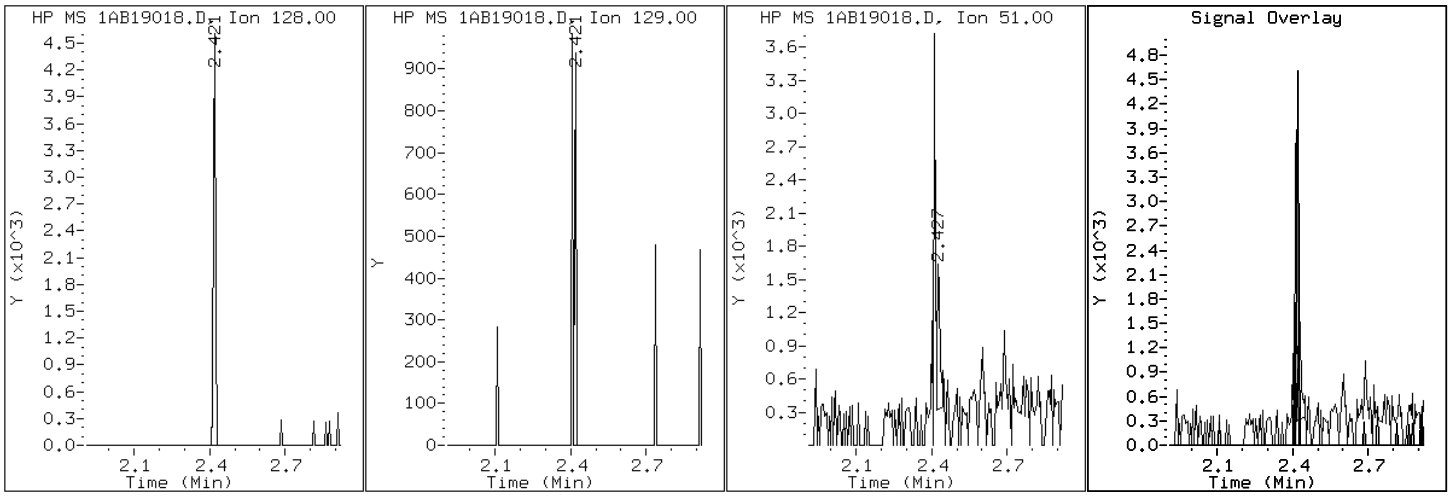
Client ID: FM0034A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

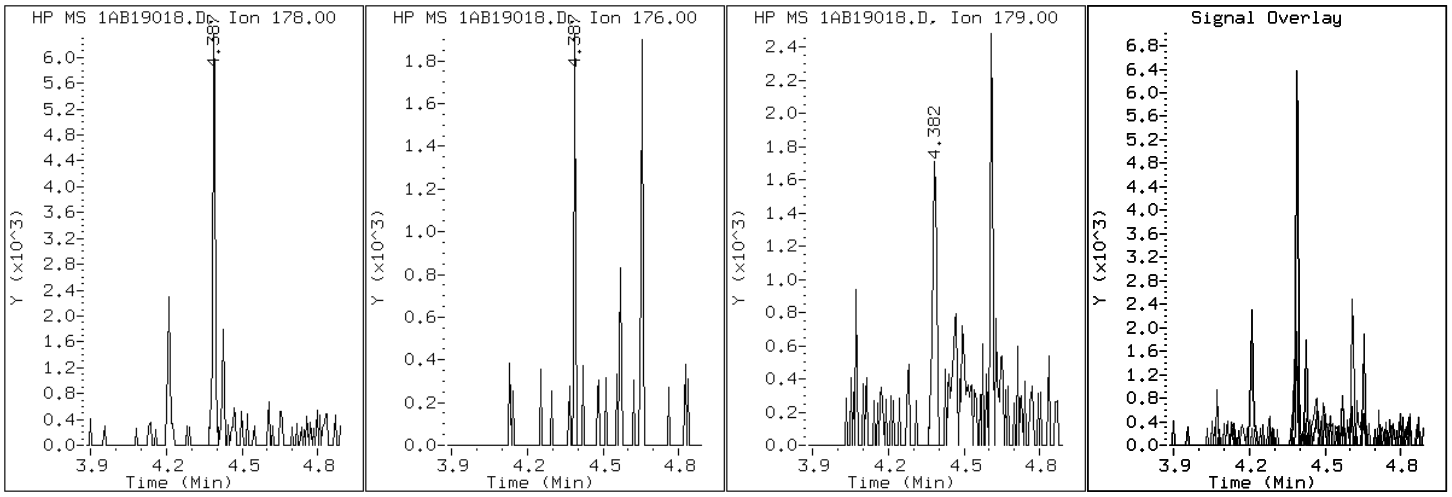
Client ID: FM0034A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a

Operator: SCC

11 Phenanthrene



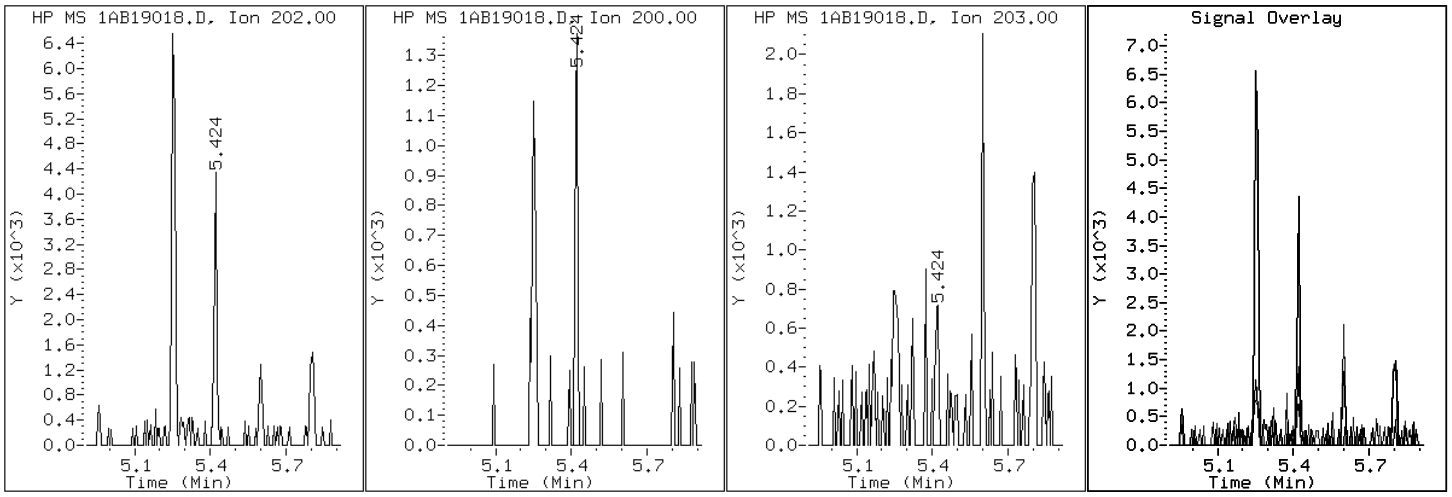
Data File: 1AB19018.D

Date: 19-FEB-2013 16:13

Client ID: FM0034A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-2-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB19018.D
Inj. Date and Time: 19-FEB-2013 16:13
Instrument ID: BSMA5973.i
Client ID: FM0034A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

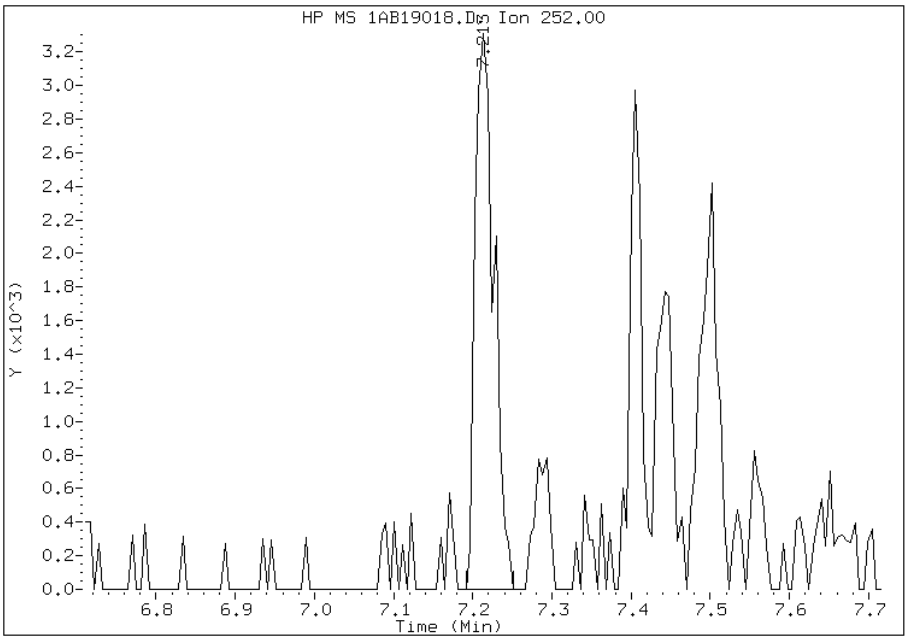
Processing Integration Results

RT: 7.21

Response: 5432

Amount: 0

Conc: 89



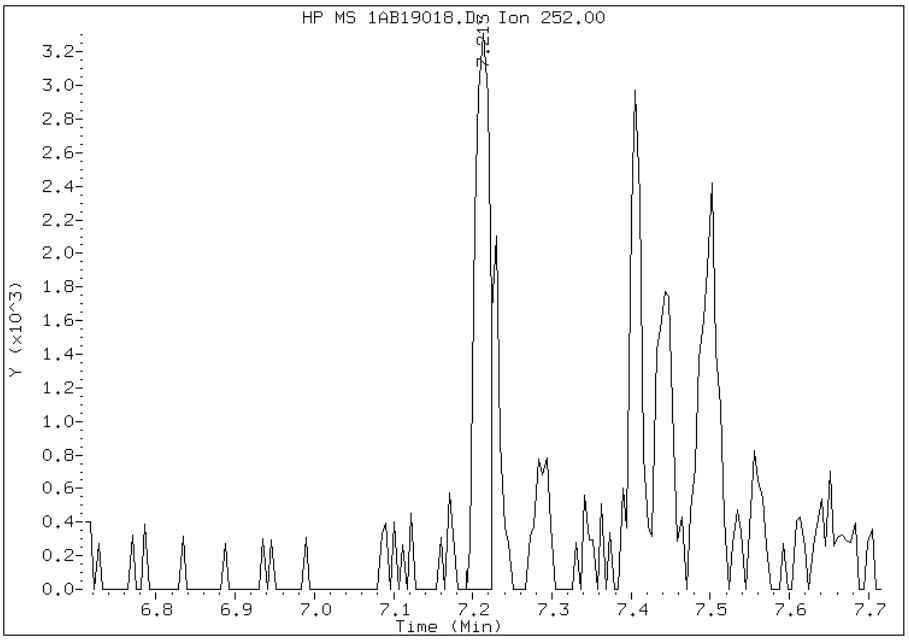
Manual Integration Results

RT: 7.21

Response: 4270

Amount: 0

Conc: 70



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19018.D
Inj. Date and Time: 19-FEB-2013 16:13
Instrument ID: BSMA5973.i
Client ID: FM0034A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

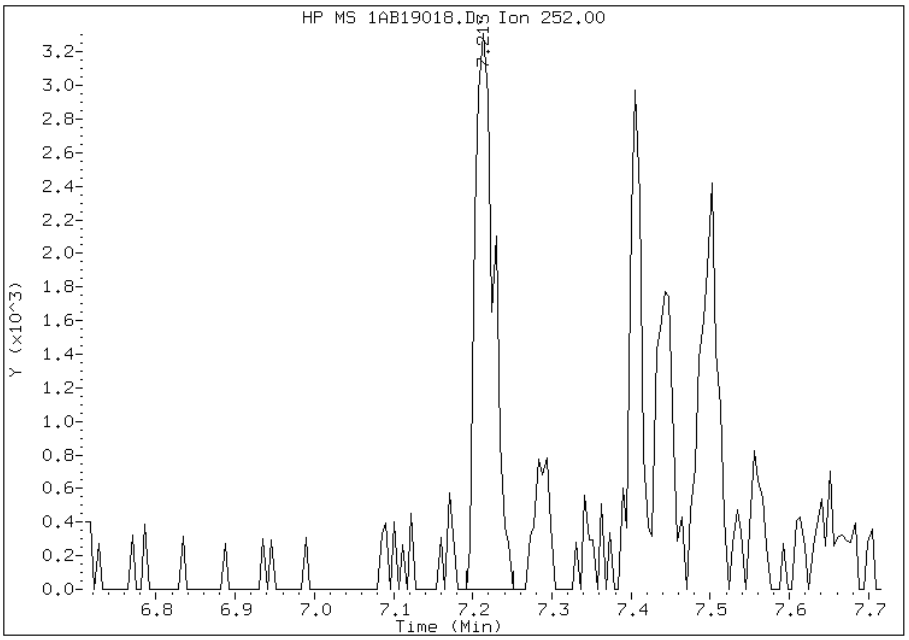
Processing Integration Results

RT: 7.21

Response: 5432

Amount: 0

Conc: 85



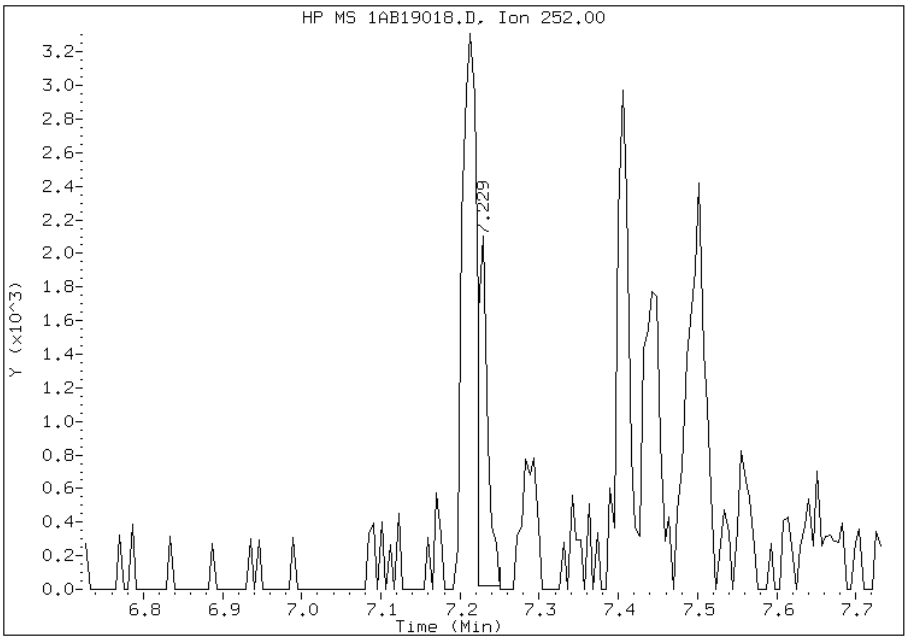
Manual Integration Results

RT: 7.23

Response: 1656

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19018.D
Inj. Date and Time: 19-FEB-2013 16:13
Instrument ID: BSMA5973.i
Client ID: FM0034A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/20/2013

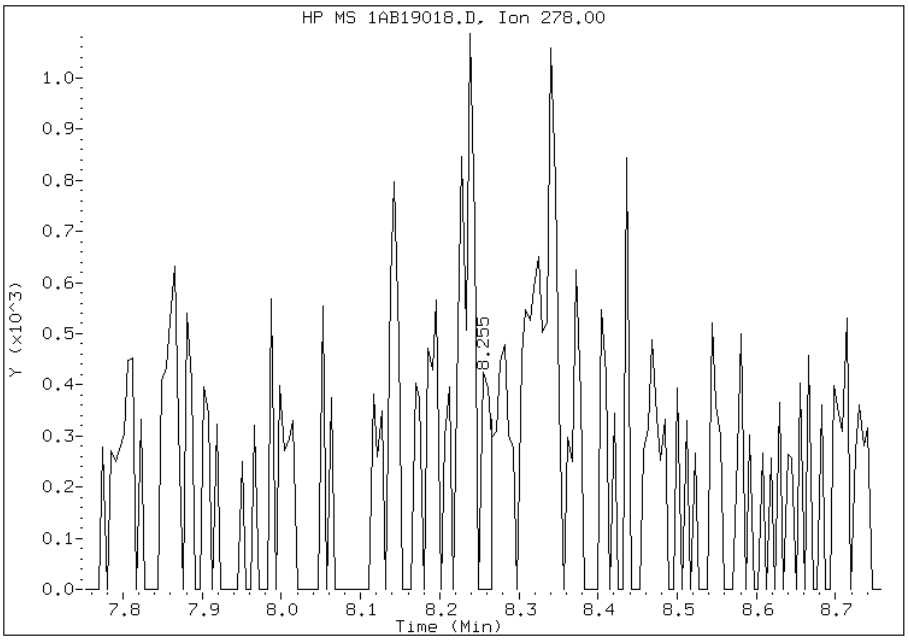
Processing Integration Results

RT: 8.26

Response: 356

Amount: 0

Conc: 8



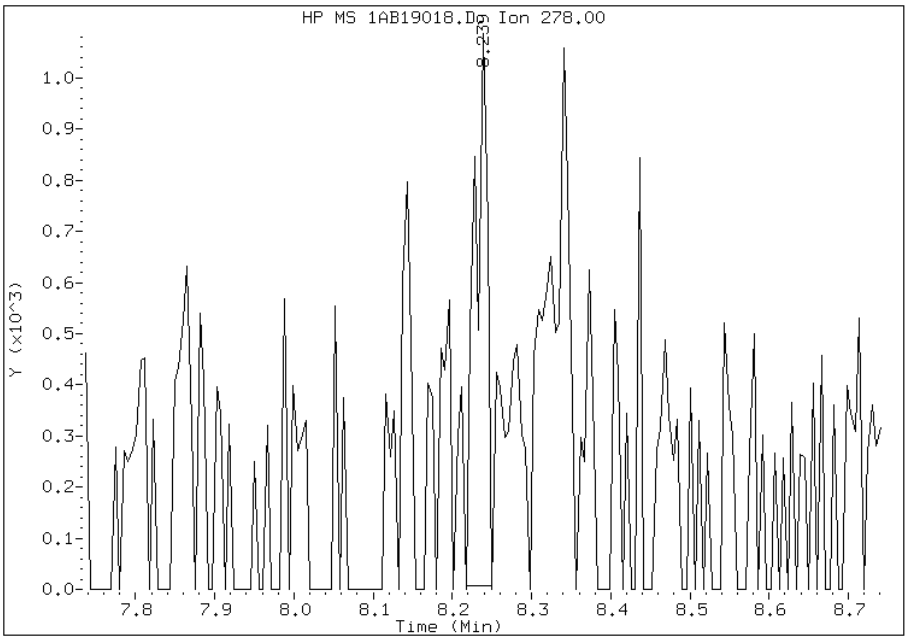
Manual Integration Results

RT: 8.24

Response: 1158

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:31
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1AB19018.D
Inj. Date and Time: 19-FEB-2013 16:13
Instrument ID: BSMA5973.i
Client ID: FM0034A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

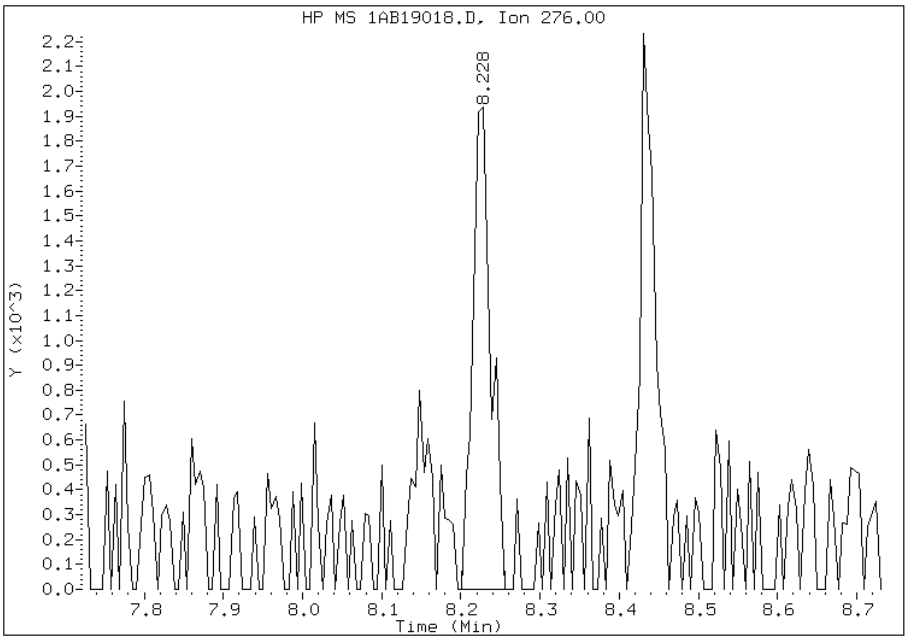
Processing Integration Results

RT: 8.23

Response: 3061

Amount: 0

Conc: 67



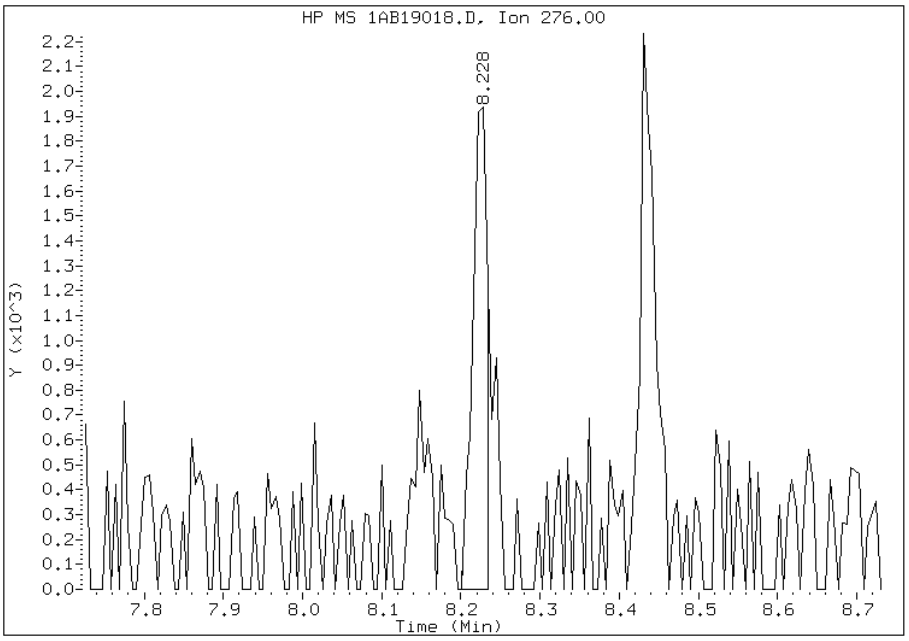
Manual Integration Results

RT: 8.23

Response: 2404

Amount: 0

Conc: 53



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: FM0123A-CS | Lab Sample ID: 680-87320-3

Matrix: Solid | Lab File ID: 1AB19019.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 08:34

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 15.06(g) | Date Analyzed: 02/19/2013 16:27

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

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

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

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	110	J	210	26
120-12-7	Anthracene	130		44	22
56-55-3	Benzo[a]anthracene	400		42	21
50-32-8	Benzo[a]pyrene	170		55	28
205-99-2	Benzo[b]fluoranthene	360		65	32
191-24-2	Benzo[g,h,i]perylene	240		110	23
207-08-9	Benzo[k]fluoranthene	91		42	19
218-01-9	Chrysene	330		48	24
53-70-3	Dibenz(a,h)anthracene	90	J	110	22
206-44-0	Fluoranthene	400		110	21
86-73-7	Fluorene	25	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	200		110	38
90-12-0	1-Methylnaphthalene	140	J	210	23
91-57-6	2-Methylnaphthalene	150	J	210	38
91-20-3	Naphthalene	150	J	210	23
85-01-8	Phenanthrene	420		42	21
129-00-0	Pyrene	340		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\1AB19019.D
Lab Smp Id: 680-87320-A-3-A Client Smp ID: FM0123A-CS
Inj Date : 19-FEB-2013 16:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-3-a
Misc Info : 680-87320-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 19
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	24.702	% 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	2.410	2.405	(1.000)	695033	40.0000	
* 6 Acenaphthene-d10	164	3.435	3.431	(1.000)	483818	40.0000	
* 10 Phenanthrene-d10	188	4.376	4.371	(1.000)	687913	40.0000	
$ 14 o-Terphenyl	230	4.653	4.649	(1.063)	20132	2.01406	710.4301
* 18 Chrysene-d12	240	6.400	6.390	(1.000)	537437	40.0000	
* 23 Perylene-d12	264	7.501	7.480	(1.000)	715291	40.0000	
2 Naphthalene	128	2.420	2.416	(1.004)	7002	0.41505	146.4045
3 2-Methylnaphthalene	141	2.821	2.816	(1.171)	3920	0.43374	152.9960
4 1-Methylnaphthalene	142	2.875	2.875	(1.193)	4062	0.39705	140.0520
5 Acenaphthylene	152	3.350	3.345	(0.975)	6758	0.31634	111.5846
9 Fluorene	166	3.761	3.757	(1.095)	1050	0.07222	25.4744(Q)
11 Phenanthrene	178	4.392	4.387	(1.004)	22447	1.19507	421.5448
12 Anthracene	178	4.424	4.419	(1.011)	6999	0.36548	128.9165
13 Carbazole	167	4.579	4.574	(1.046)	3095	0.18854	66.5053

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.257	5.247	(1.201)	21277	1.14256	403.0231
16 Pyrene	202	5.423	5.413	(0.847)	18963	0.97699	344.6209
17 Benzo(a)anthracene	228	6.390	6.374	(0.998)	18306	1.14076	402.3883
19 Chrysene	228	6.416	6.406	(1.002)	14543	0.92977	327.9632
20 Benzo(b)fluoranthene	252	7.212	7.202	(0.962)	20511	1.02740	362.4015(M)
21 Benzo(k)fluoranthene	252	7.228	7.224	(0.964)	5357	0.25665	90.5288(QMH)
22 Benzo(a)pyrene	252	7.447	7.432	(0.993)	8955	0.47236	166.6178
24 Indeno(1,2,3-cd)pyrene	276	8.233	8.212	(1.098)	8522	0.56928	200.8049(M)
25 Dibenzo(a,h)anthracene	278	8.238	8.228	(1.098)	3798	0.25378	89.5187
26 Benzo(g,h,i)perylene	276	8.441	8.420	(1.125)	10619	0.68471	241.5226

QC Flag Legend

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

Data File: 1AB19019.D

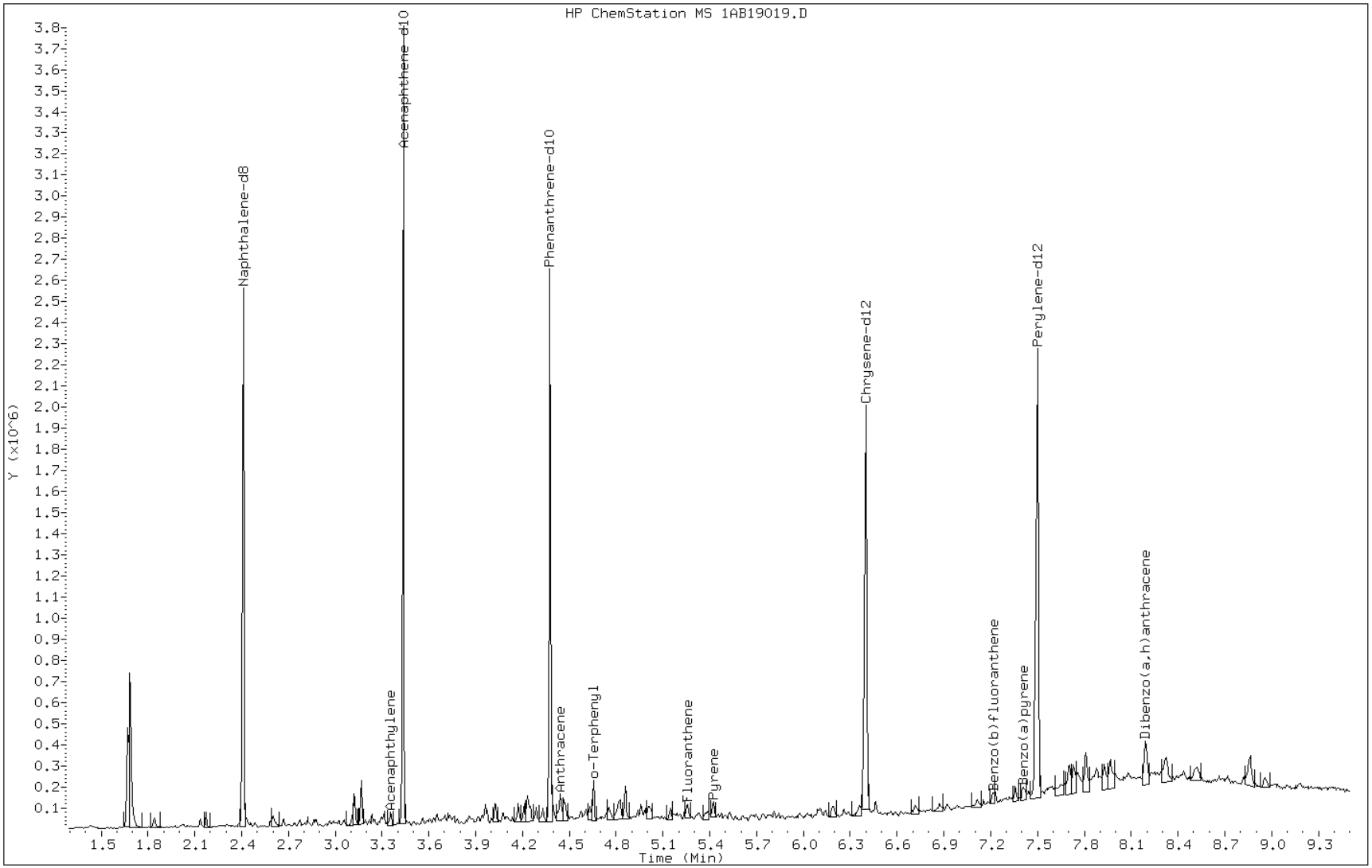
Date: 19-FEB-2013 16:27

Client ID: FM0123A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a

Operator: SCC



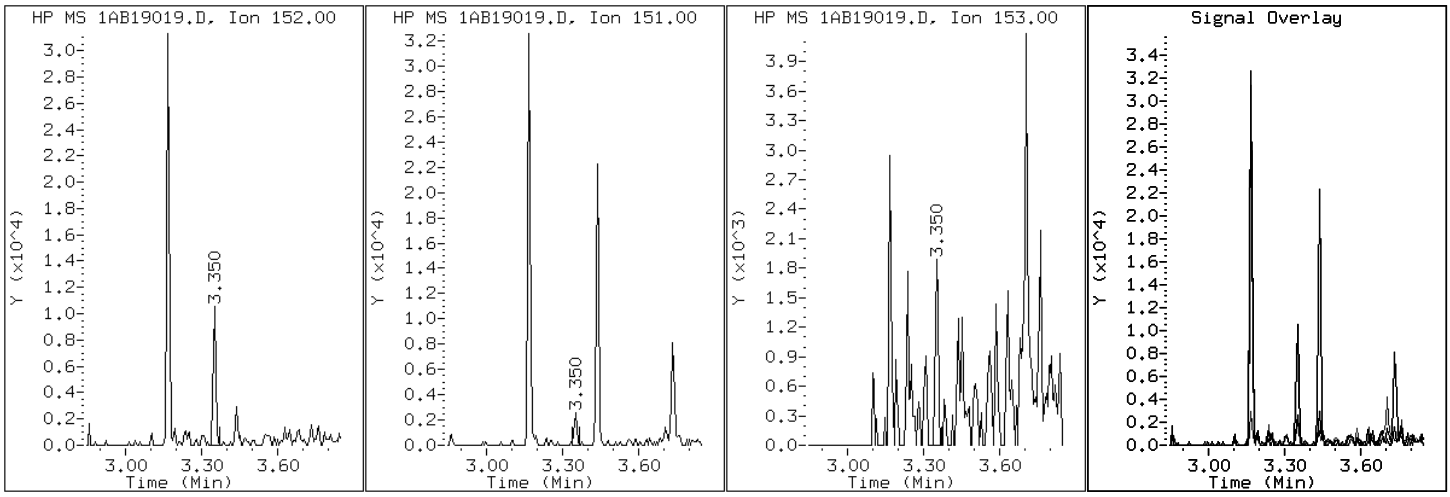
Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

Client ID: FM0123A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a Operator: SCC

5 Acenaphthylene



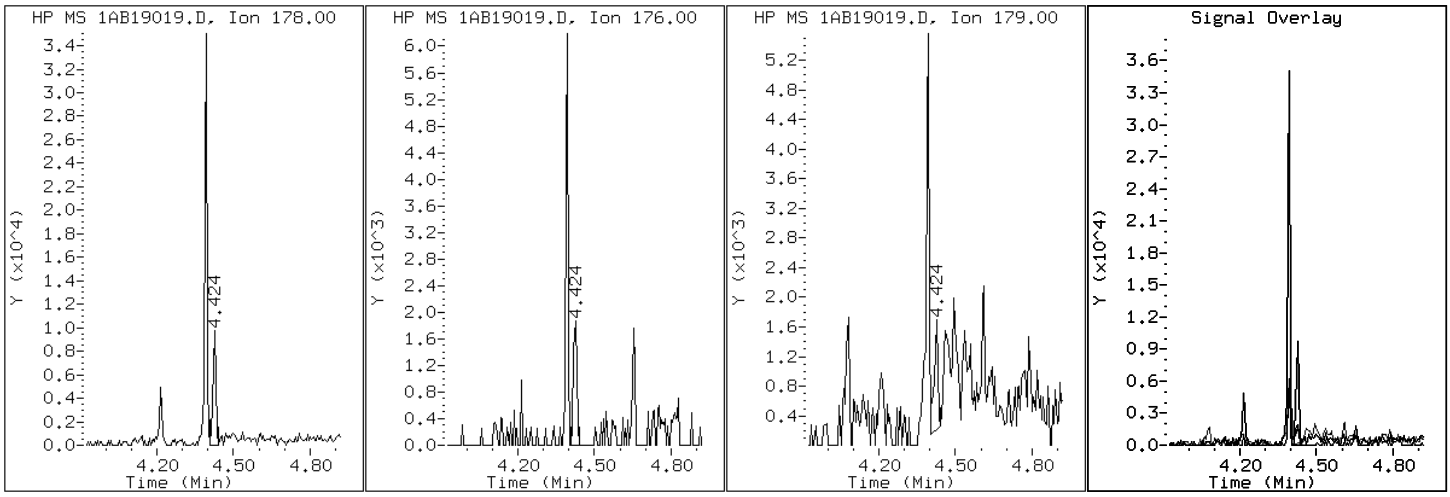
Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

Client ID: FM0123A-CS | Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a | Operator: SCC

12 Anthracene



Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

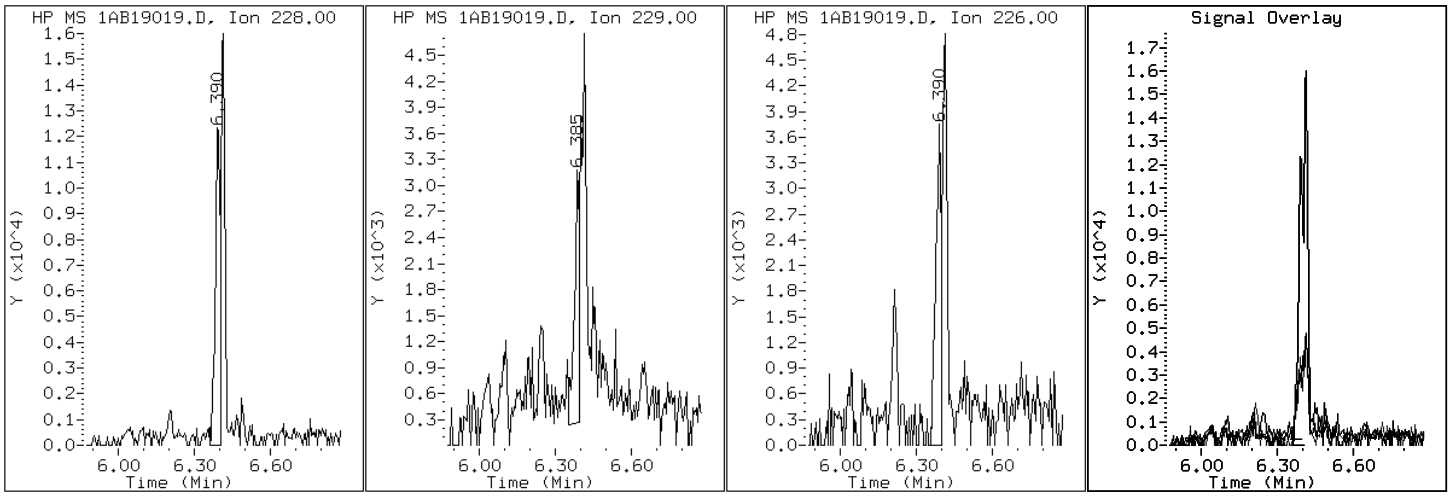
Client ID: FM0123A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a

Operator: SCC

17 Benzo(a)anthracene



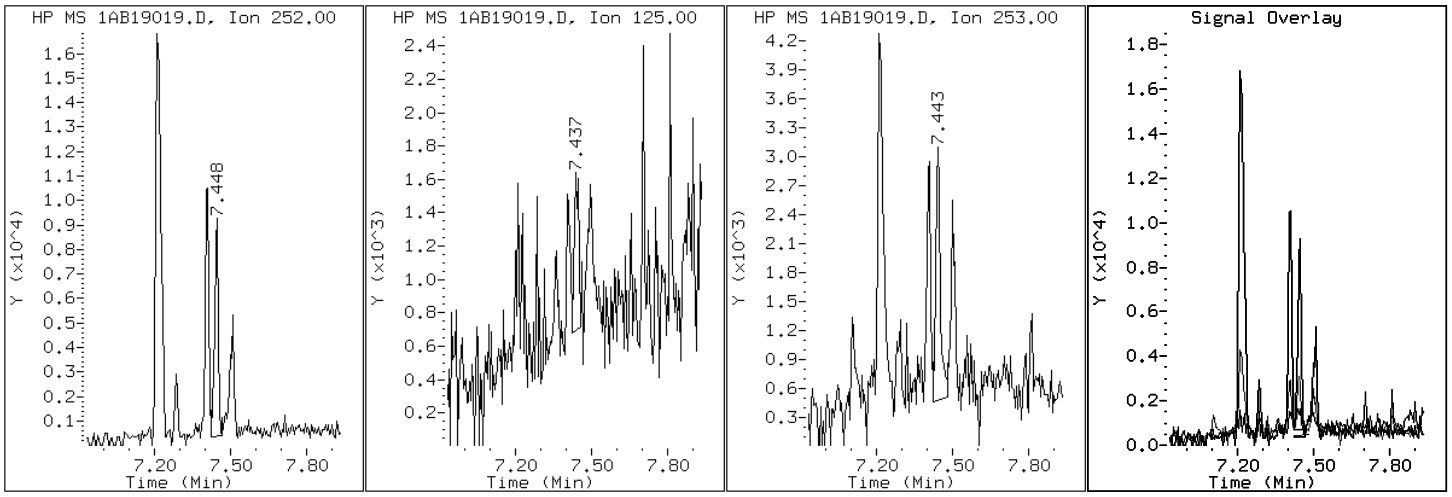
Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

Client ID: FM0123A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a Operator: SCC

22 Benzo(a)pyrene



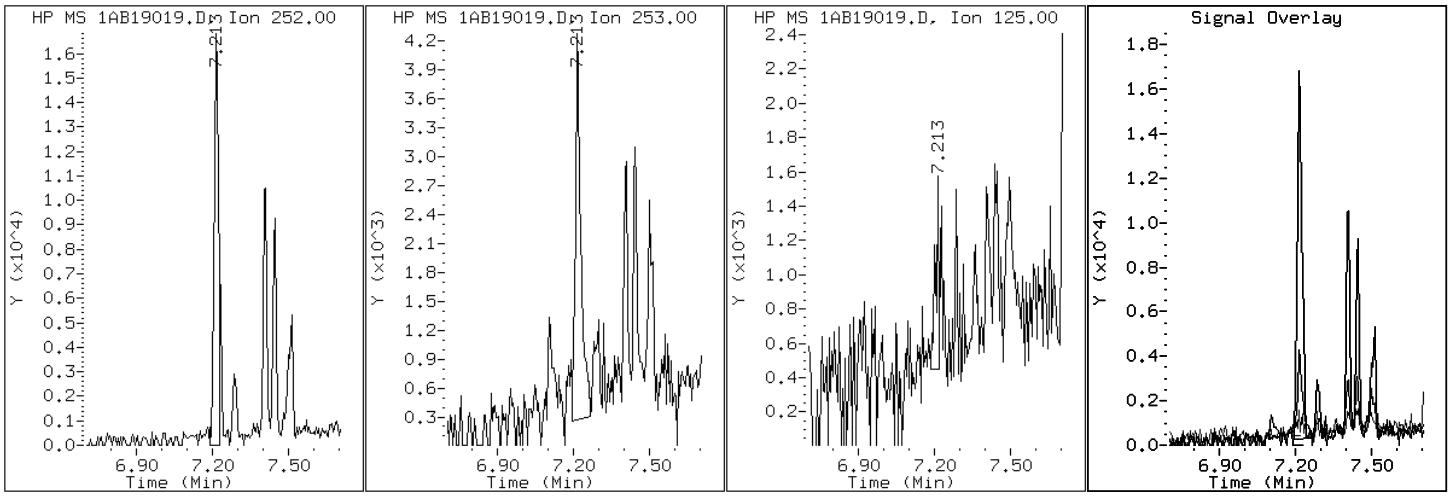
Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

Client ID: FM0123A-CS | Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a | Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

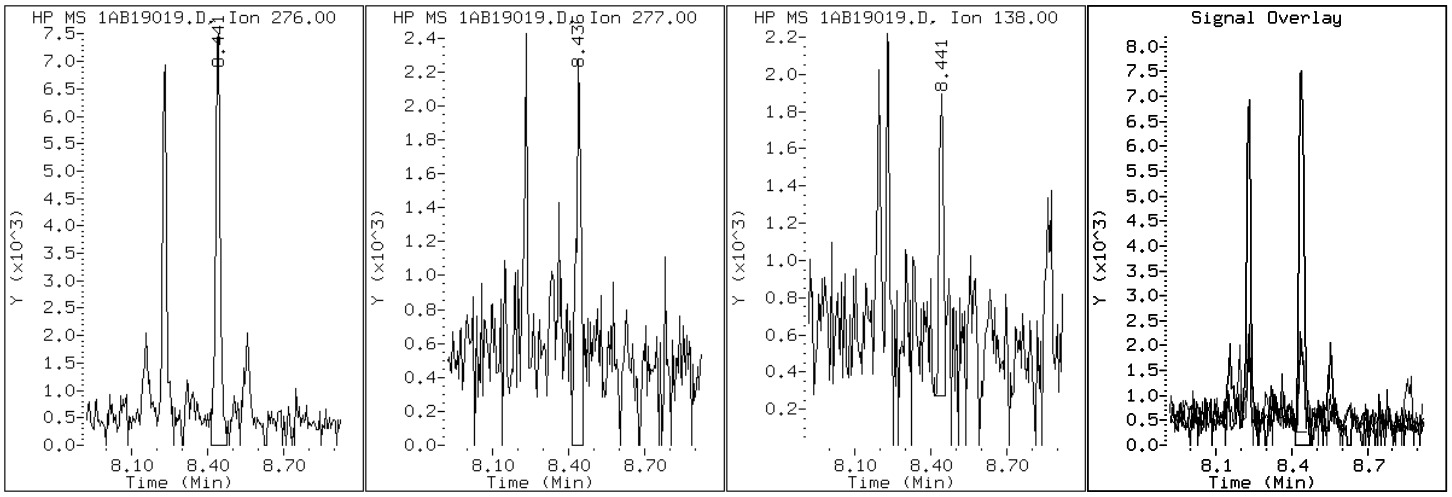
Client ID: FM0123A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

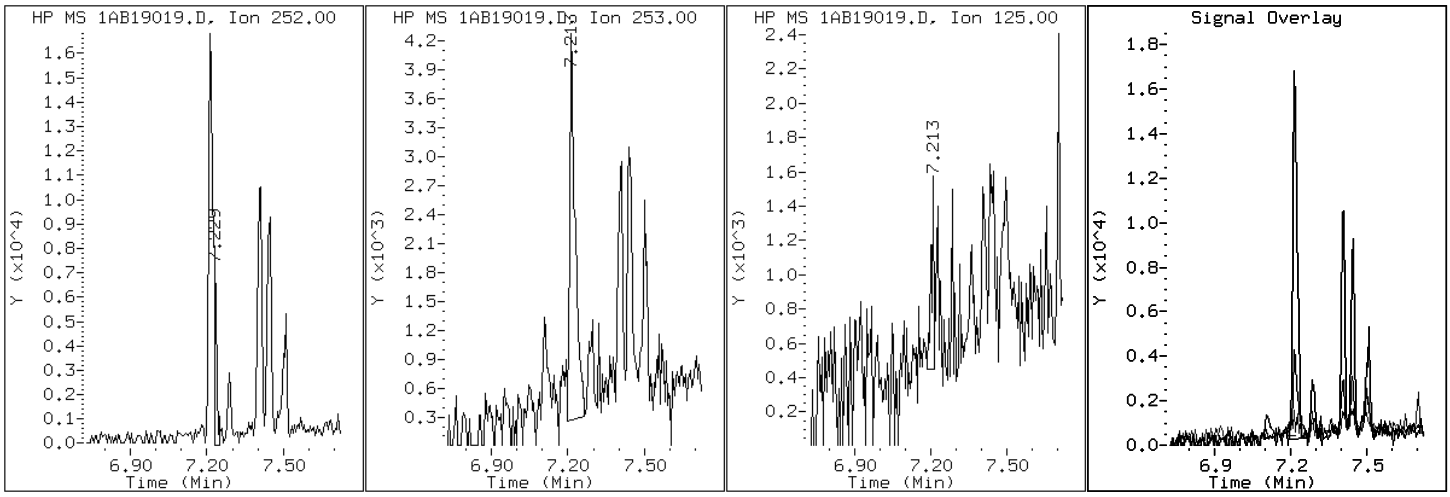
Client ID: FM0123A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

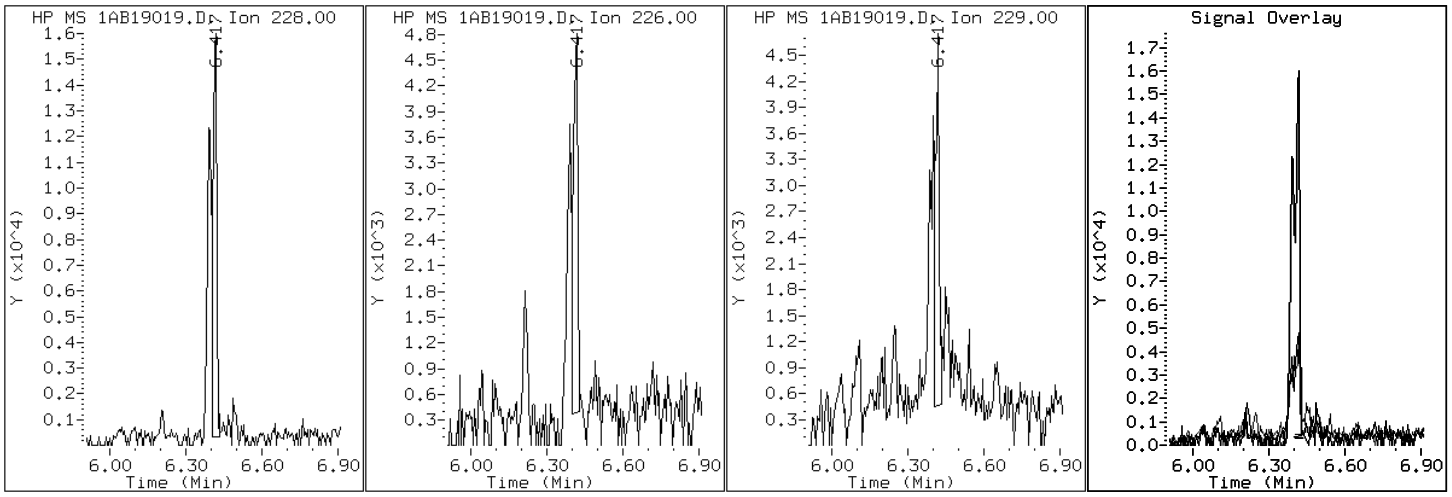
Client ID: FM0123A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a

Operator: SCC

19 Chrysene



Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

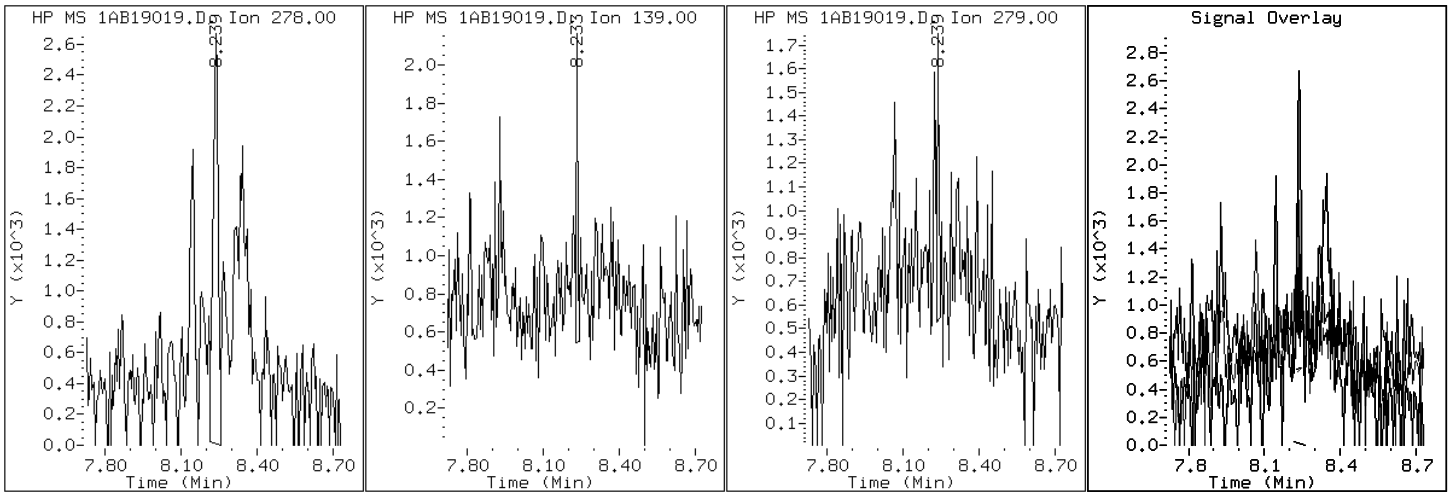
Client ID: FM0123A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a

Operator: SCC

25 Dibenzo(a,h)anthracene



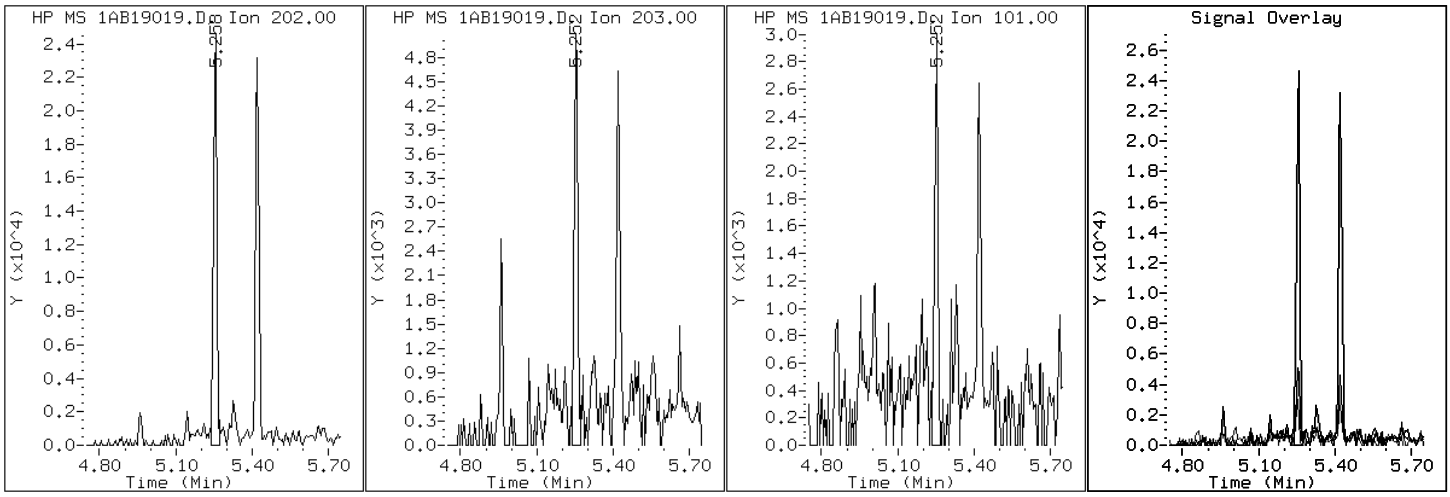
Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

Client ID: FM0123A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a Operator: SCC

15 Fluoranthene



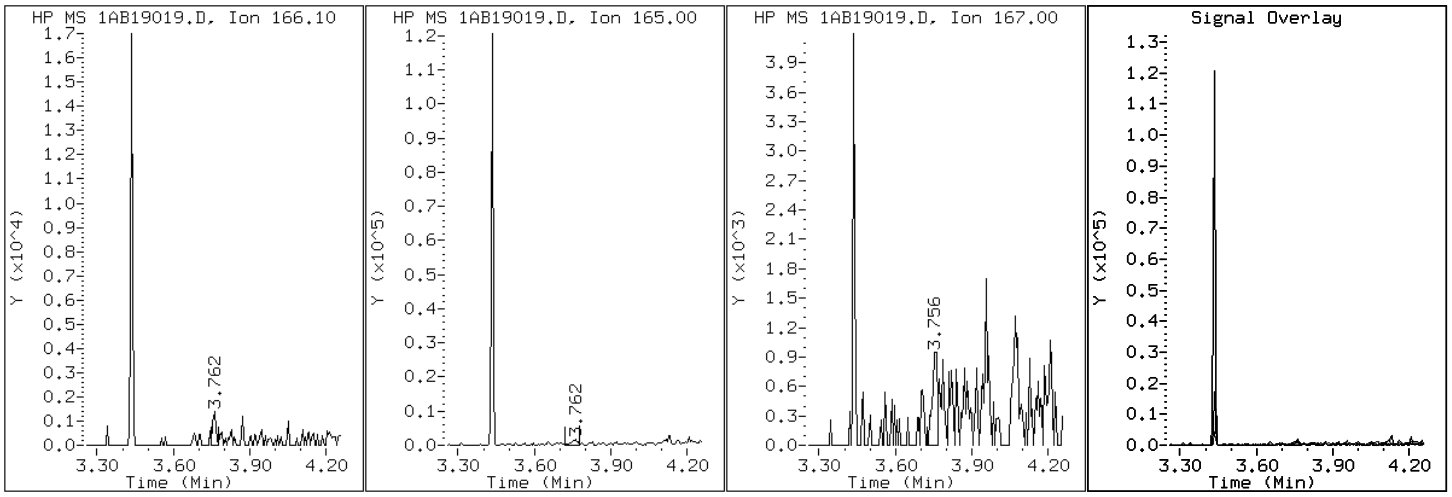
Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

Client ID: FM0123A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a Operator: SCC

9 Fluorene



Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

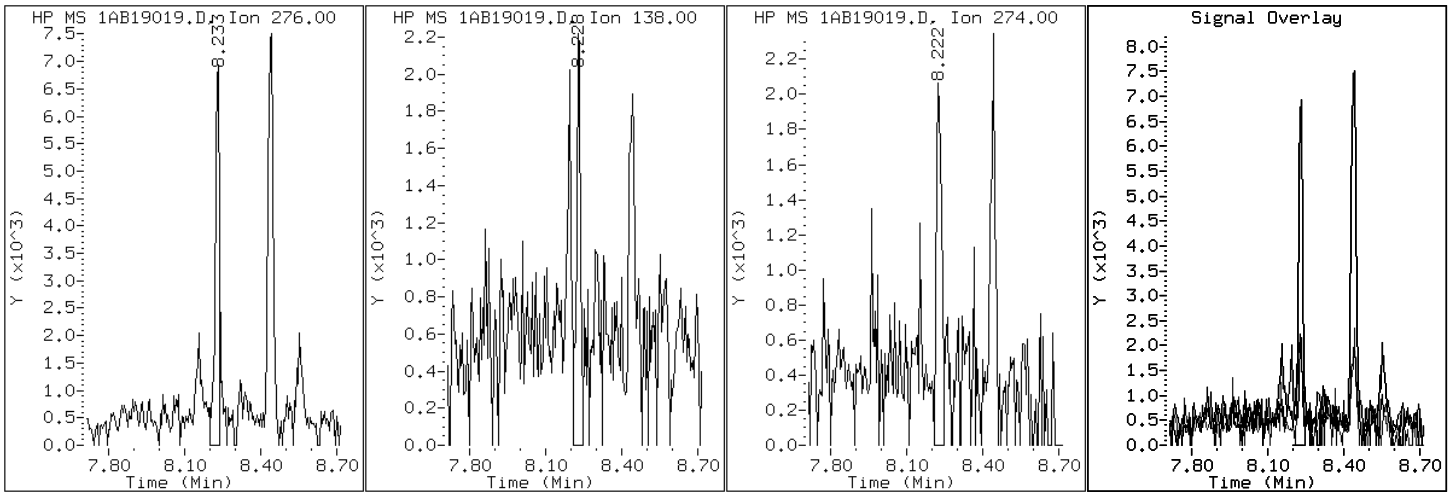
Client ID: FM0123A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a

Operator: SCC

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



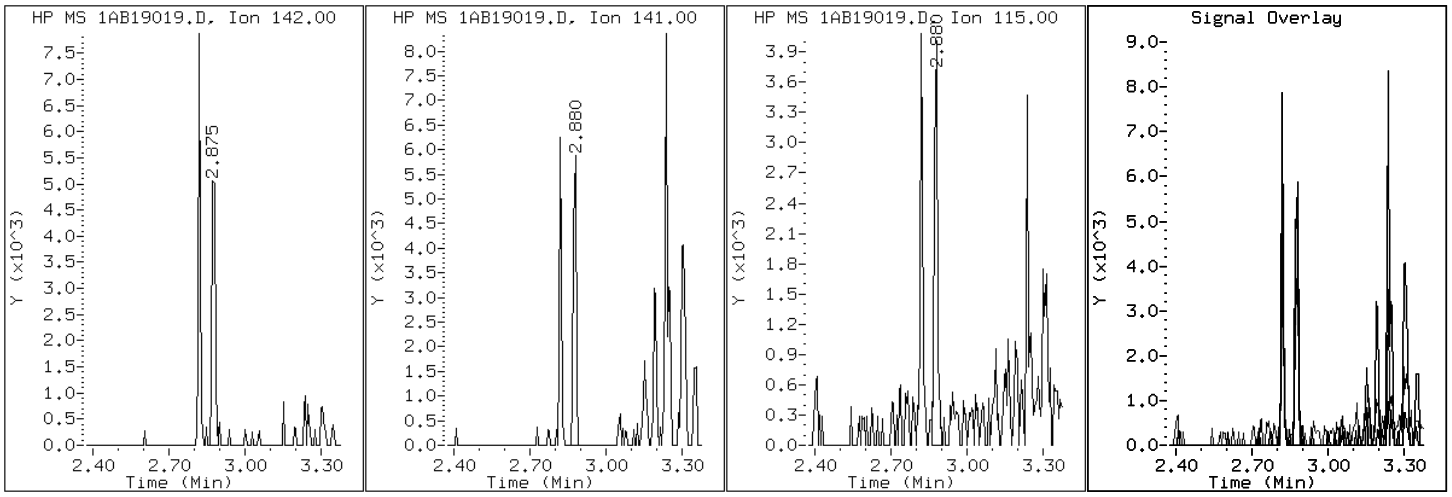
Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

Client ID: FM0123A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a Operator: SCC

4 1-Methylnaphthalene



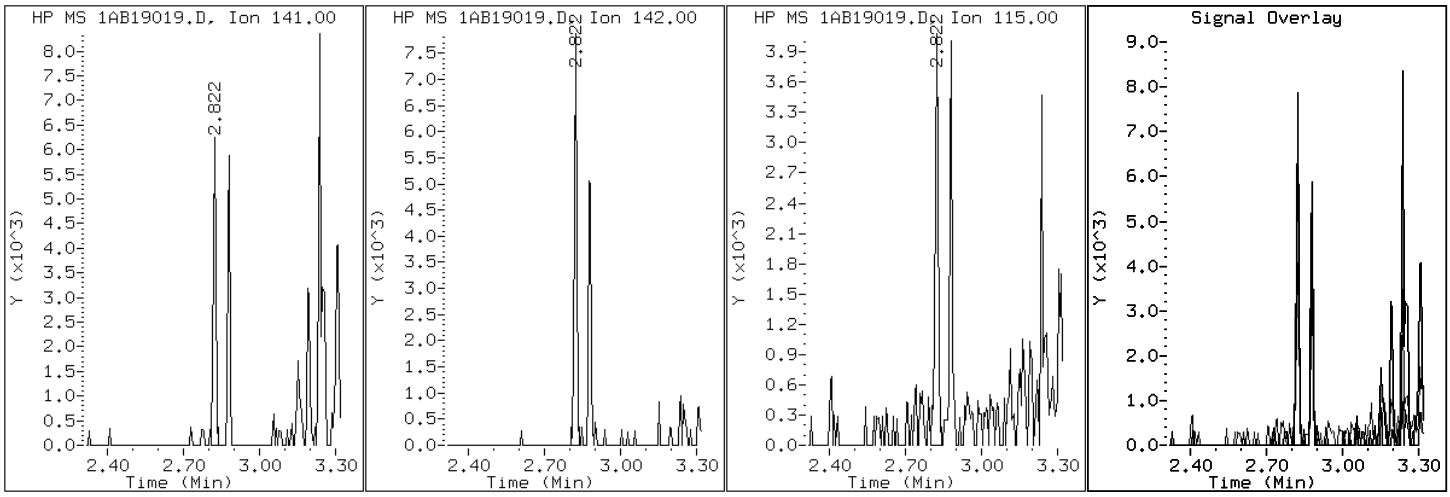
Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

Client ID: FM0123A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a Operator: SCC

3 2-Methylnaphthalene



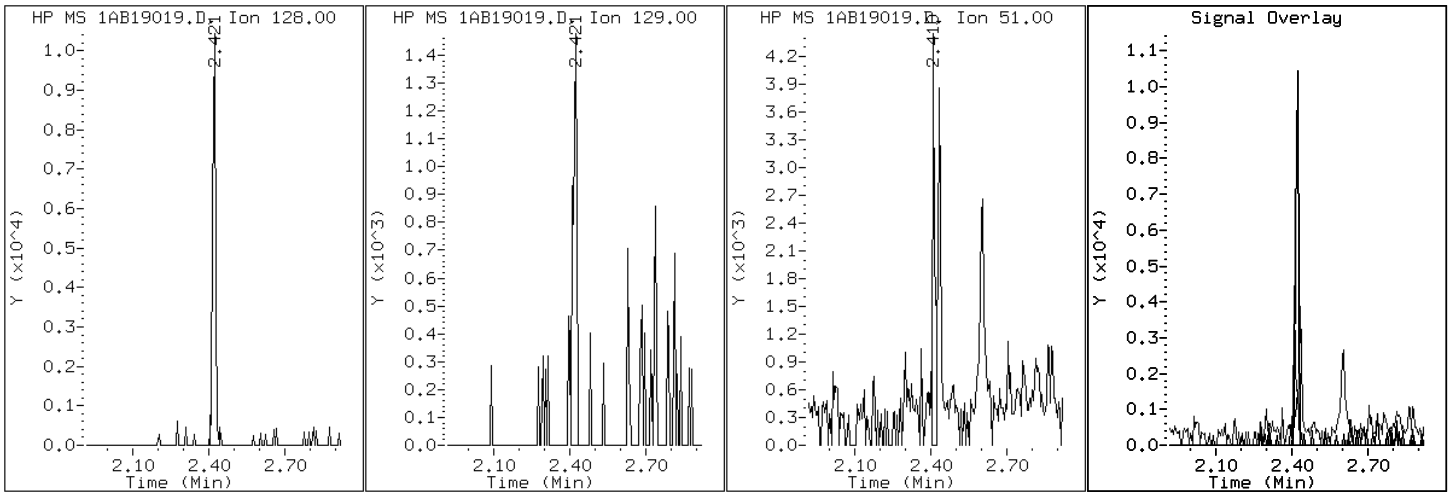
Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

Client ID: FM0123A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a Operator: SCC

2 Naphthalene



Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

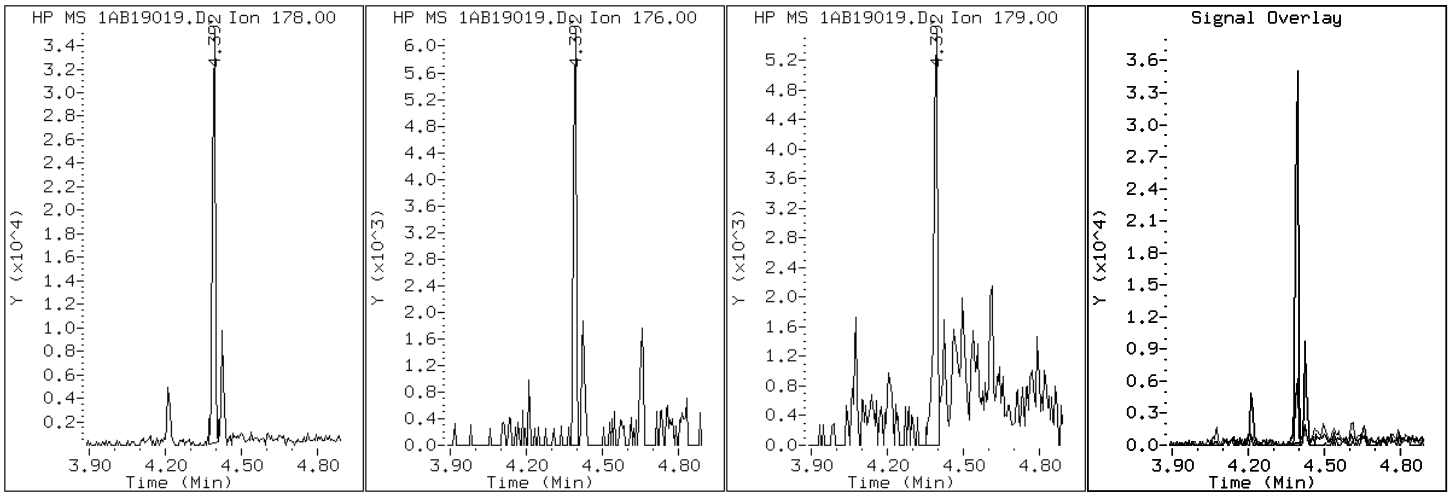
Client ID: FM0123A-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a

Operator: SCC

11 Phenanthrene



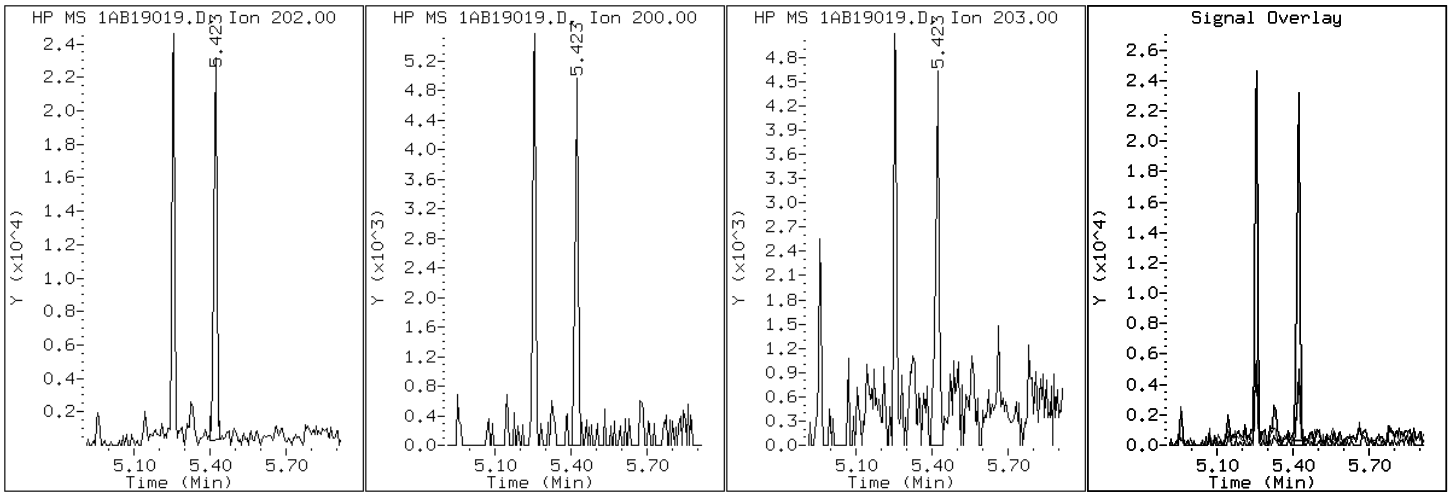
Data File: 1AB19019.D

Date: 19-FEB-2013 16:27

Client ID: FM0123A-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB19019.D
Inj. Date and Time: 19-FEB-2013 16:27
Instrument ID: BSMA5973.i
Client ID: FM0123A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

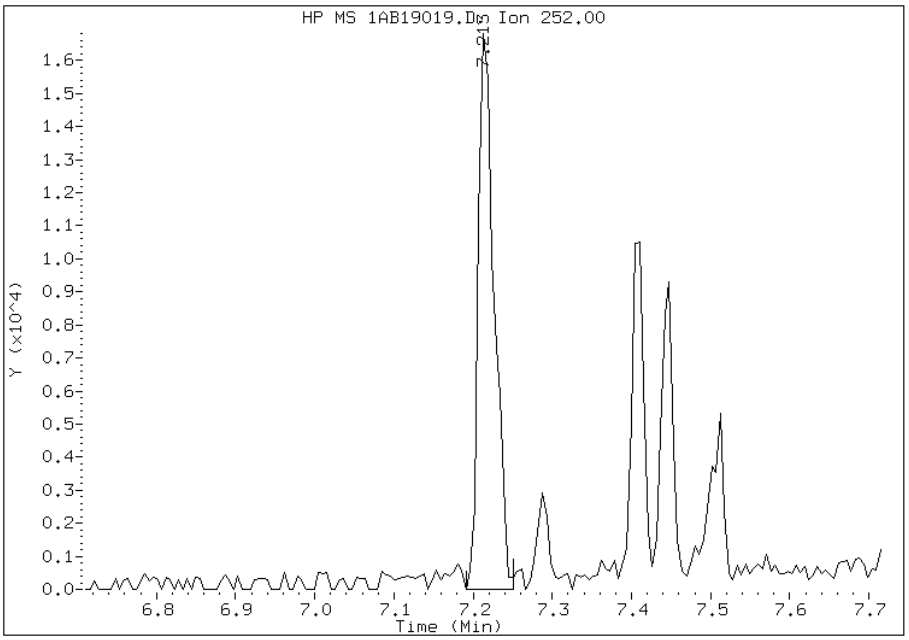
Processing Integration Results

RT: 7.21

Response: 23375

Amount: 1

Conc: 413



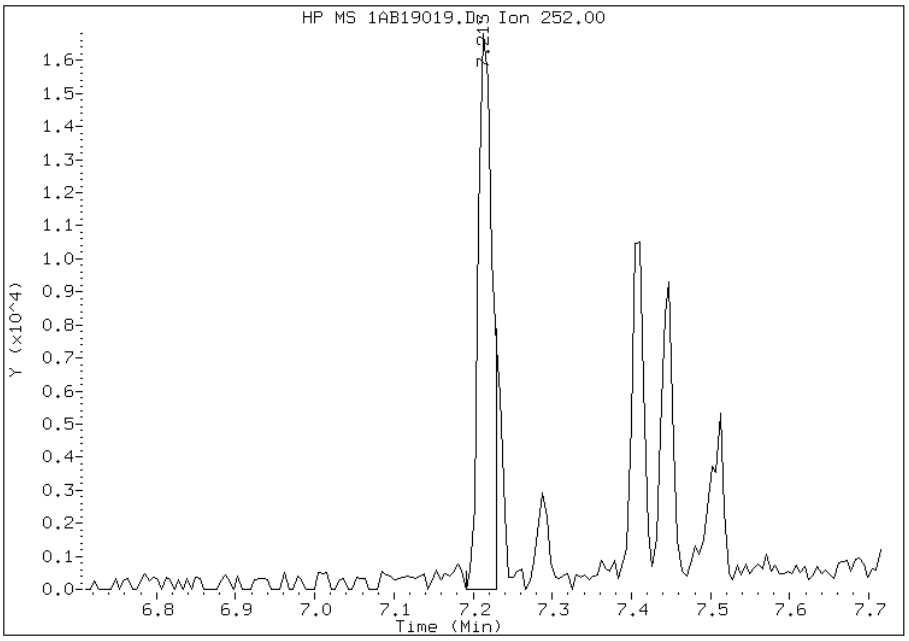
Manual Integration Results

RT: 7.21

Response: 20511

Amount: 1

Conc: 362



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19019.D
Inj. Date and Time: 19-FEB-2013 16:27
Instrument ID: BSMA5973.i
Client ID: FM0123A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

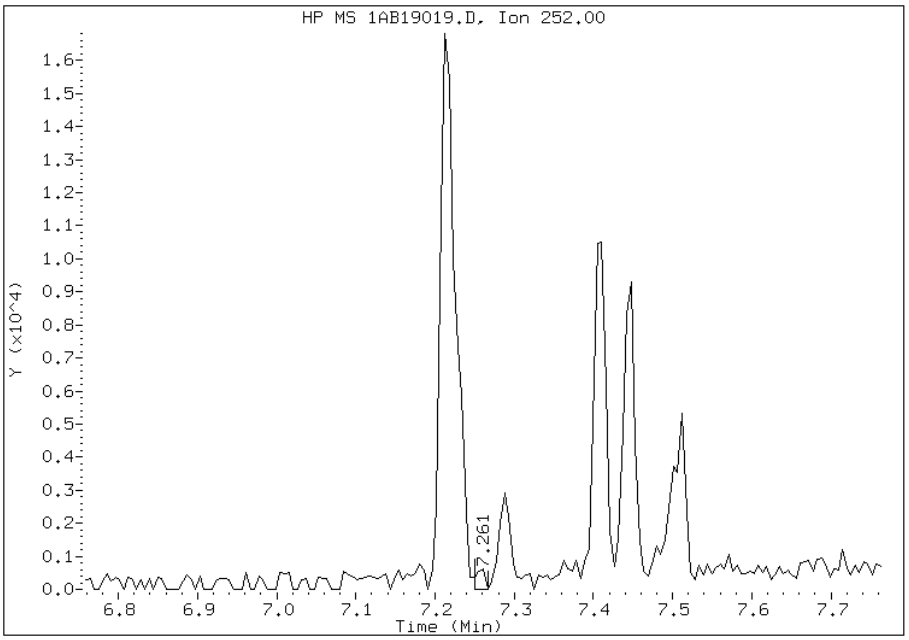
Processing Integration Results

RT: 7.26

Response: 488

Amount: 0

Conc: 8



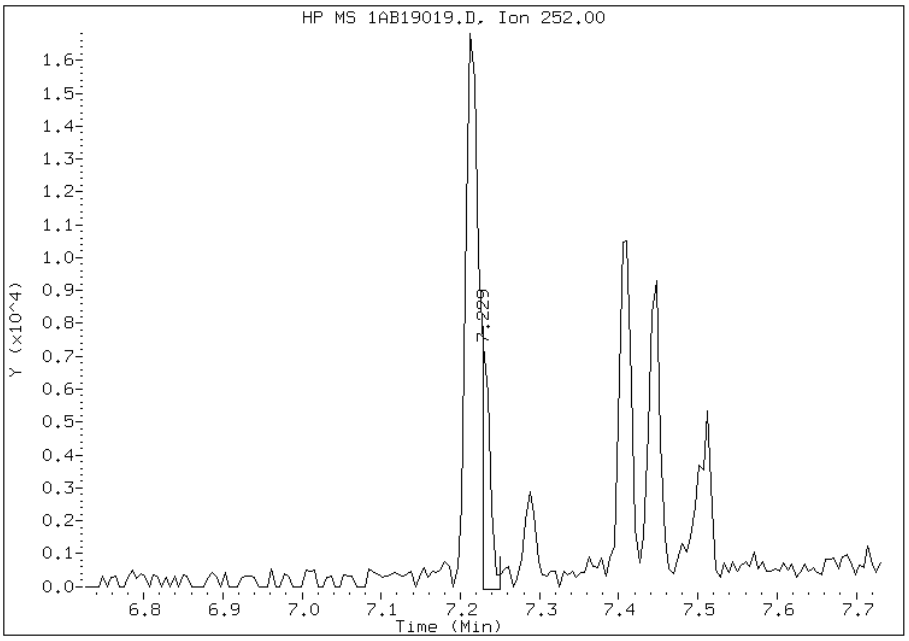
Manual Integration Results

RT: 7.23

Response: 5357

Amount: 0

Conc: 91



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19019.D
Inj. Date and Time: 19-FEB-2013 16:27
Instrument ID: BSMA5973.i
Client ID: FM0123A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

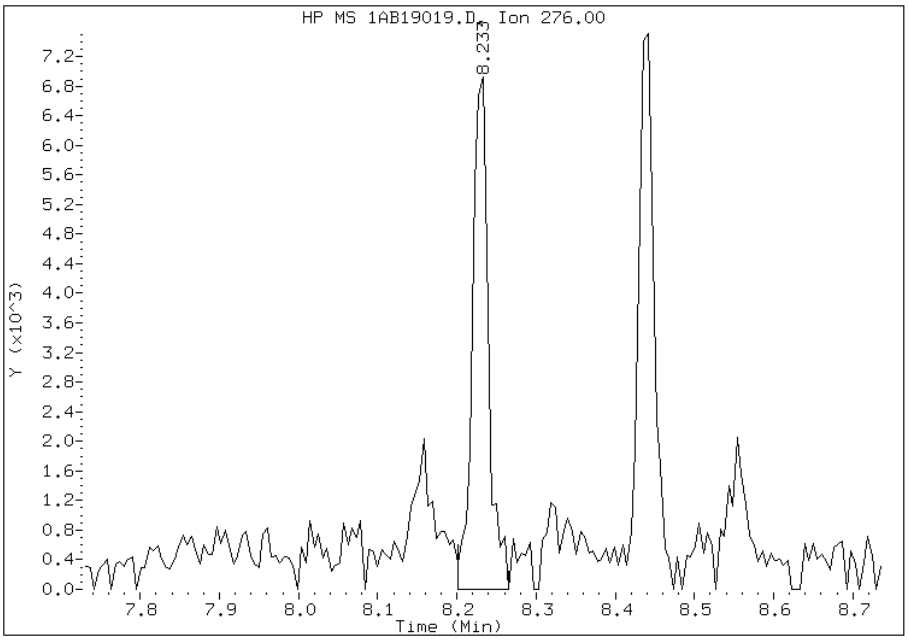
Processing Integration Results

RT: 8.23

Response: 9672

Amount: 1

Conc: 228



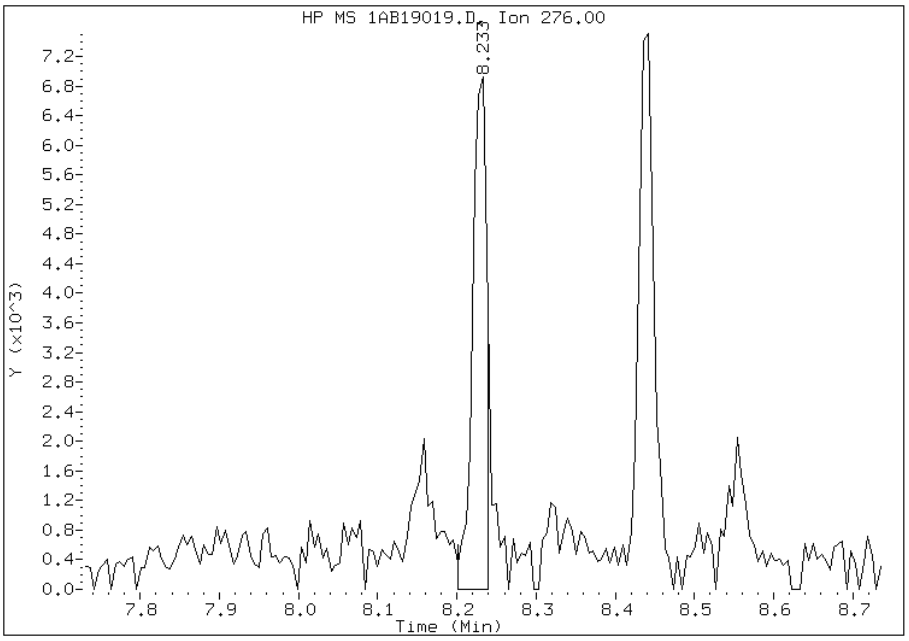
Manual Integration Results

RT: 8.23

Response: 8522

Amount: 1

Conc: 201



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:33
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: FM0123A-CSD | Lab Sample ID: 680-87320-4

Matrix: Solid | Lab File ID: 1AB19020.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 08:40

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 15.49(g) | Date Analyzed: 02/19/2013 16:42

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

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

% Moisture: 23.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	62	J	200	25
120-12-7	Anthracene	130		42	21
56-55-3	Benzo[a]anthracene	500		40	20
50-32-8	Benzo[a]pyrene	240		52	26
205-99-2	Benzo[b]fluoranthene	400		62	31
191-24-2	Benzo[g,h,i]perylene	210		100	22
207-08-9	Benzo[k]fluoranthene	120		40	18
218-01-9	Chrysene	400		45	23
53-70-3	Dibenz(a,h)anthracene	87	J	100	21
206-44-0	Fluoranthene	730		100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	210		100	36
90-12-0	1-Methylnaphthalene	160	J	200	22
91-57-6	2-Methylnaphthalene	210		200	36
91-20-3	Naphthalene	170	J	200	22
85-01-8	Phenanthrene	480		40	20
129-00-0	Pyrene	490		100	19

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\BSMA5973.i\1A021913.b\1AB19020.D
Lab Smp Id: 680-87320-A-4-A Client Smp ID: FM0123A-CSD
Inj Date : 19-FEB-2013 16:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-4-a
Misc Info : 680-87320-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 20
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.490	Weight Extracted
M	23.164	% 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	2.410	2.405	(1.000)	697152	40.0000	
* 6 Acenaphthene-d10	164	3.435	3.431	(1.000)	499433	40.0000	
* 10 Phenanthrene-d10	188	4.376	4.371	(1.000)	717195	40.0000	
$ 14 o-Terphenyl	230	4.653	4.649	(1.063)	19335	1.85535	623.5508
* 18 Chrysene-d12	240	6.400	6.390	(1.000)	586538	40.0000	
* 23 Perylene-d12	264	7.501	7.480	(1.000)	783828	40.0000	
2 Naphthalene	128	2.420	2.416	(1.004)	8567	0.50628	170.1516
3 2-Methylnaphthalene	141	2.821	2.816	(1.171)	5651	0.62337	209.5050
4 1-Methylnaphthalene	142	2.880	2.875	(1.195)	4865	0.47409	159.3336
5 Acenaphthylene	152	3.350	3.345	(0.975)	4055	0.18388	61.7986
11 Phenanthrene	178	4.392	4.387	(1.004)	28145	1.43725	483.0365
12 Anthracene	178	4.424	4.419	(1.011)	7860	0.39368	132.3087
13 Carbazole	167	4.584	4.574	(1.048)	2639	0.15420	51.8237
15 Fluoranthene	202	5.257	5.247	(1.201)	41885	2.15737	725.0557

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.423	5.413	(0.847)	30712	1.44986	487.2716
17 Benzo(a)anthracene	228	6.395	6.374	(0.999)	25890	1.47831	496.8352
19 Chrysene	228	6.416	6.406	(1.002)	20501	1.20096	403.6217
20 Benzo(b)fluoranthene	252	7.218	7.202	(0.962)	26287	1.20159	403.8343(M)
21 Benzo(k)fluoranthene	252	7.228	7.224	(0.964)	8248	0.36060	121.1917(QMH)
22 Benzo(a)pyrene	252	7.447	7.432	(0.993)	14737	0.70938	238.4097
24 Indeno(1,2,3-cd)pyrene	276	8.233	8.212	(1.098)	10244	0.62447	209.8753(M)
25 Dibenzo(a,h)anthracene	278	8.243	8.228	(1.099)	4236	0.25830	86.8108
26 Benzo(g,h,i)perylene	276	8.441	8.420	(1.125)	10645	0.62637	210.5129

QC Flag Legend

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

Data File: 1AB19020.D

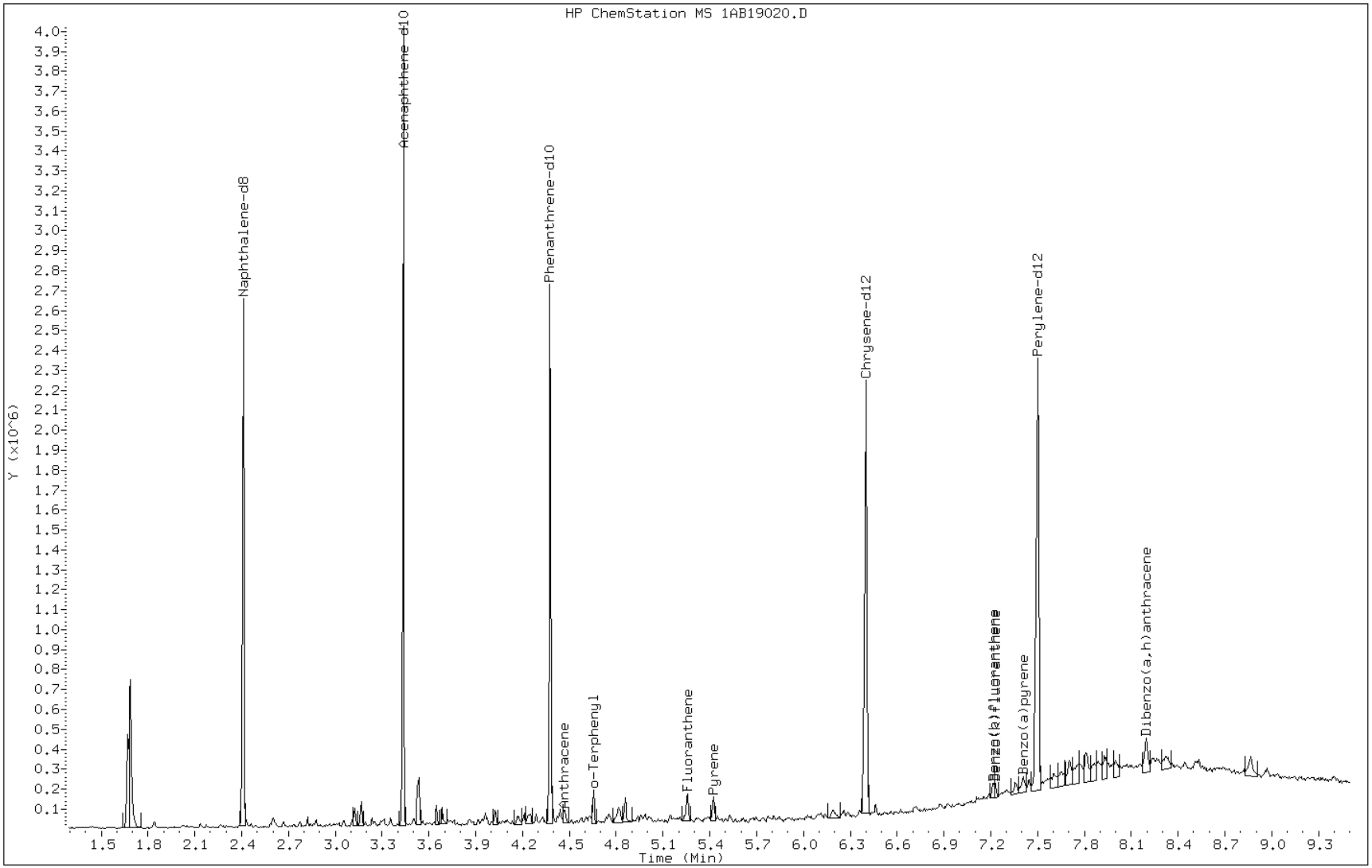
Date: 19-FEB-2013 16:42

Client ID: FM0123A-CSD

Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a

Operator: SCC



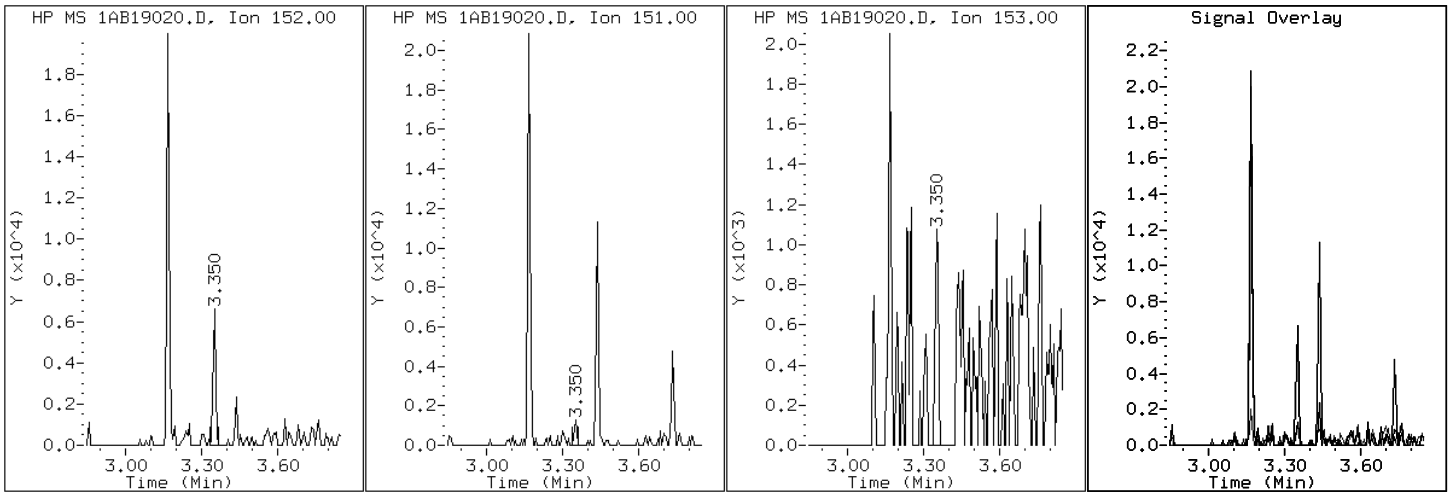
Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

Client ID: FM0123A-CSD Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a Operator: SCC

5 Acenaphthylene



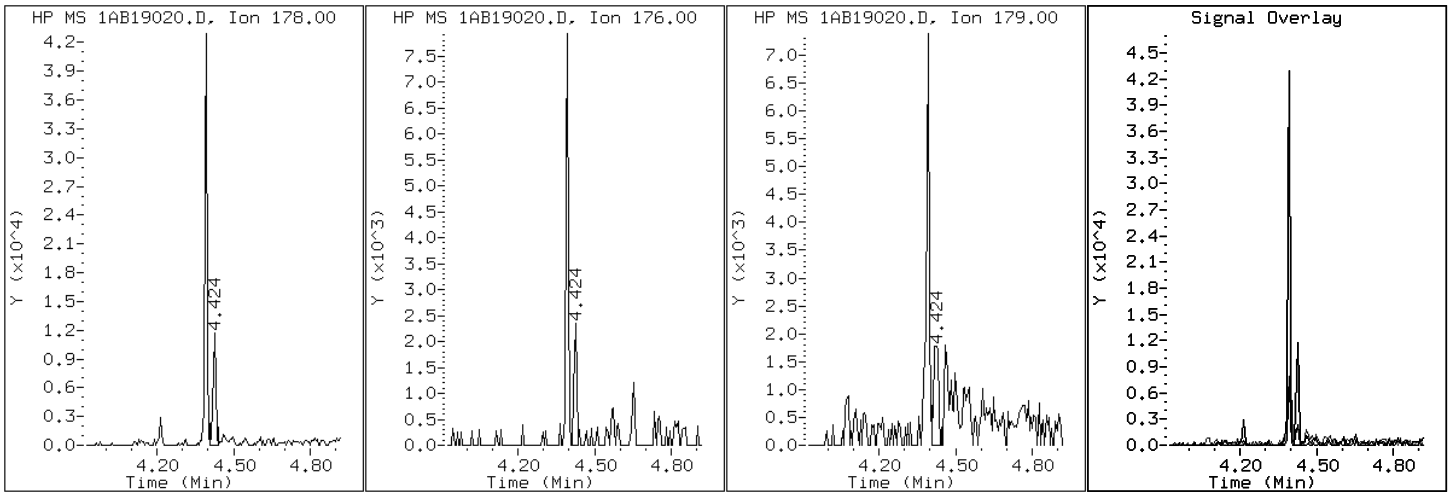
Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

Client ID: FM0123A-CSD Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a Operator: SCC

12 Anthracene



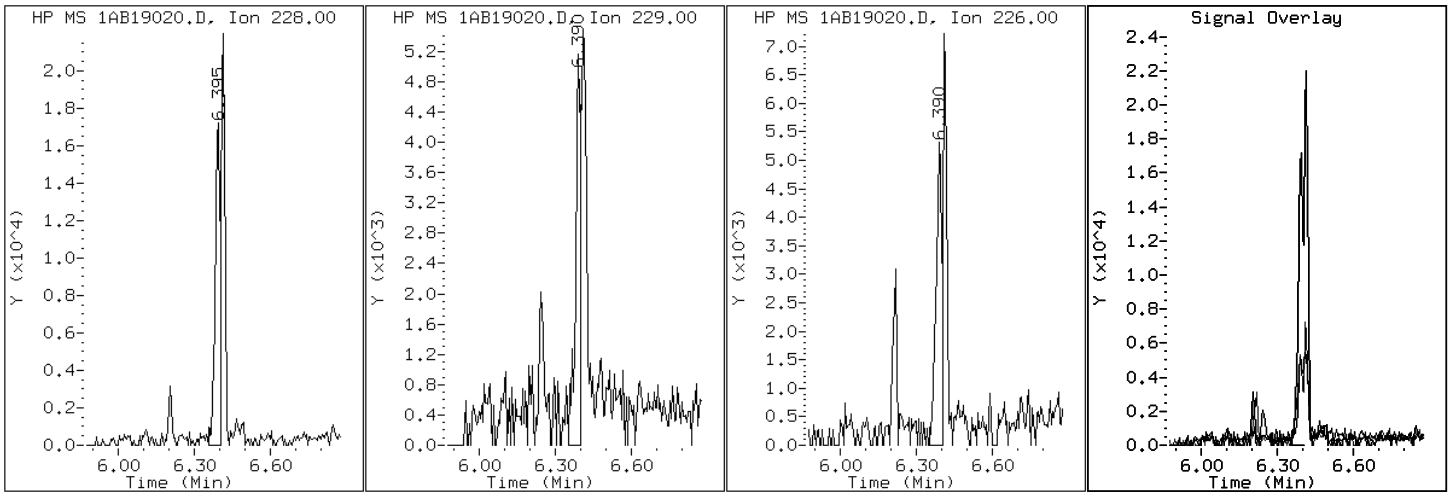
Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

Client ID: FM0123A-CSD Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a Operator: SCC

17 Benzo(a)anthracene



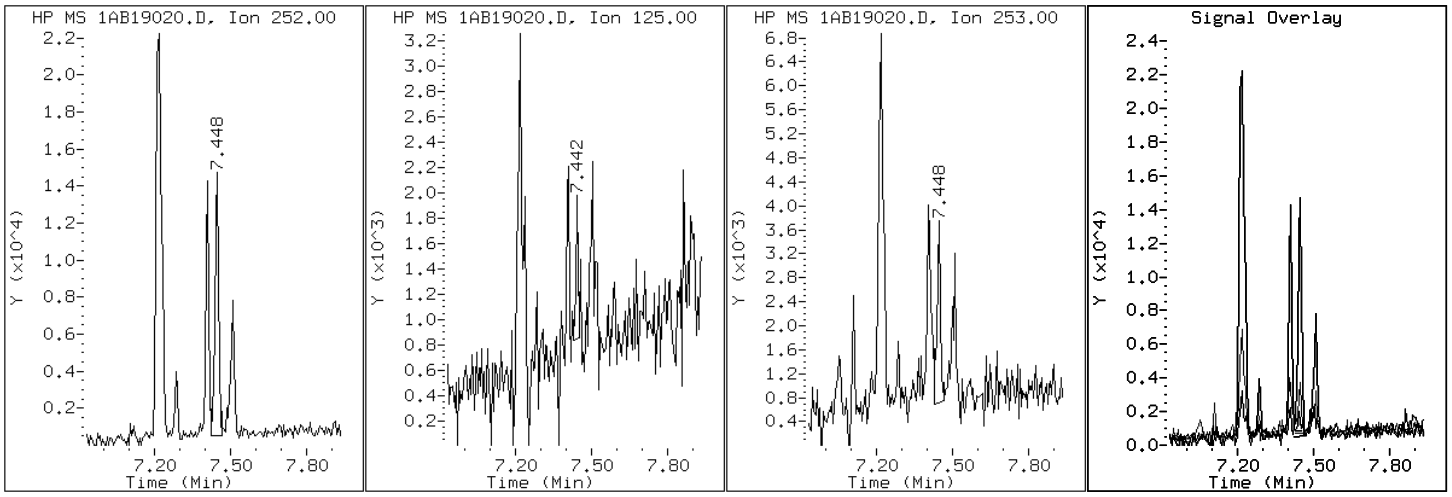
Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

Client ID: FM0123A-CSD Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

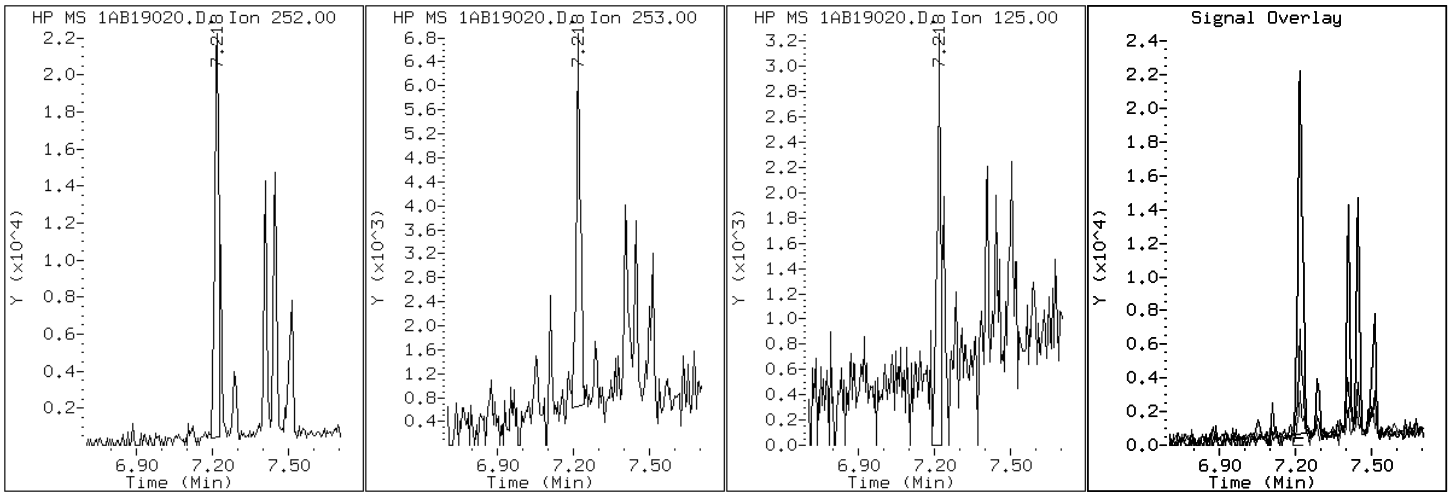
Client ID: FM0123A-CSD

Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

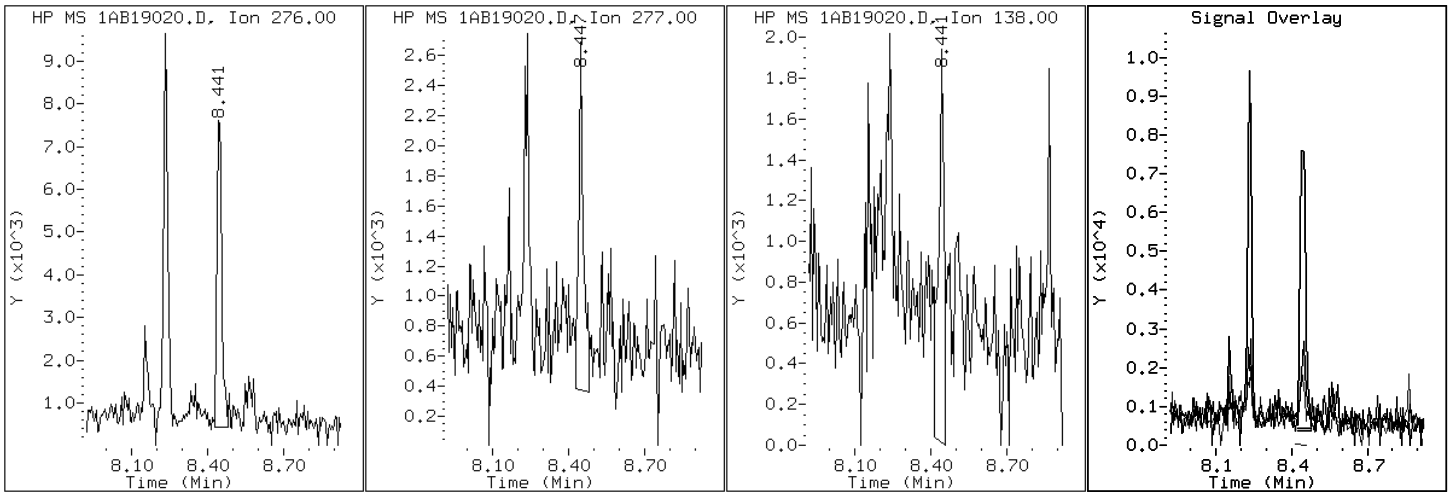
Client ID: FM0123A-CSD

Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

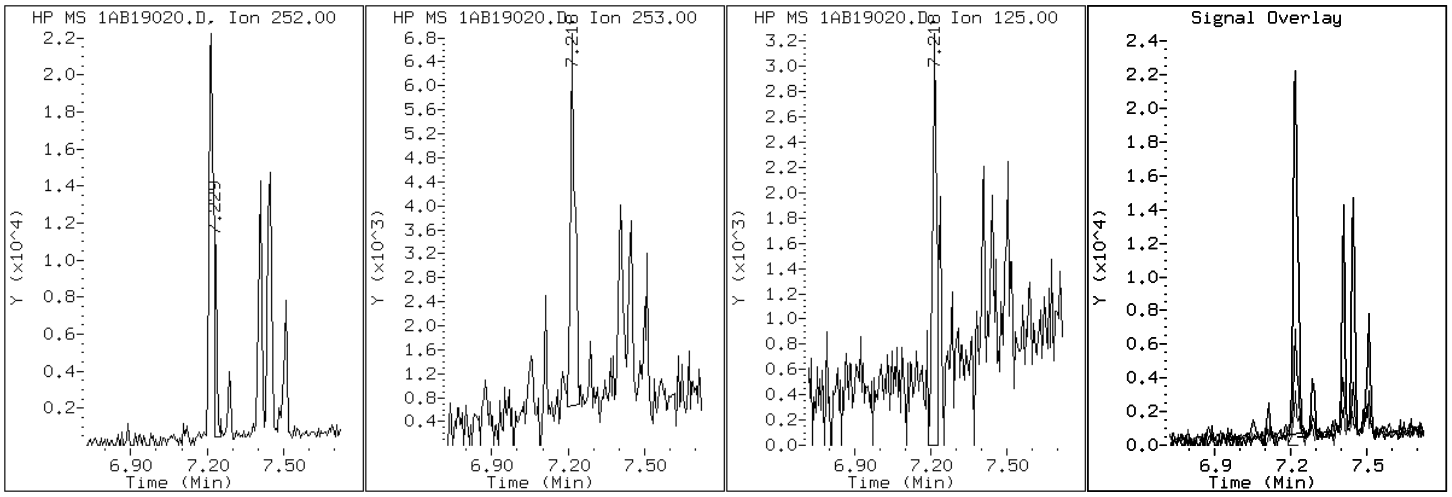
Client ID: FM0123A-CSD

Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a

Operator: SCC

21 Benzo(k)fluoranthene



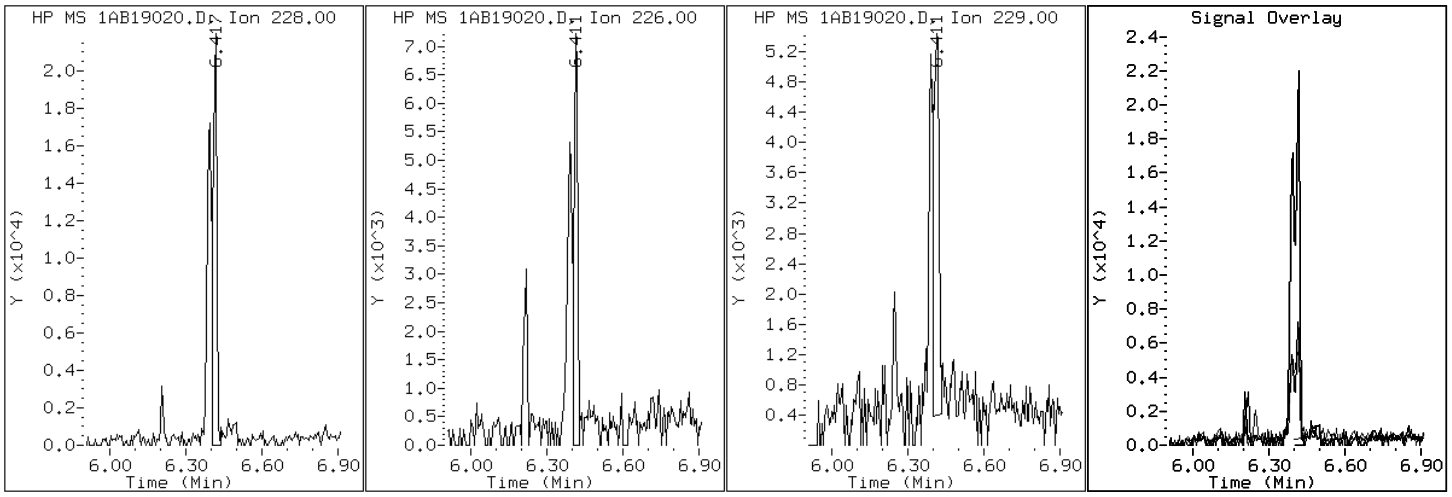
Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

Client ID: FM0123A-CSD Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a Operator: SCC

19 Chrysene



Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

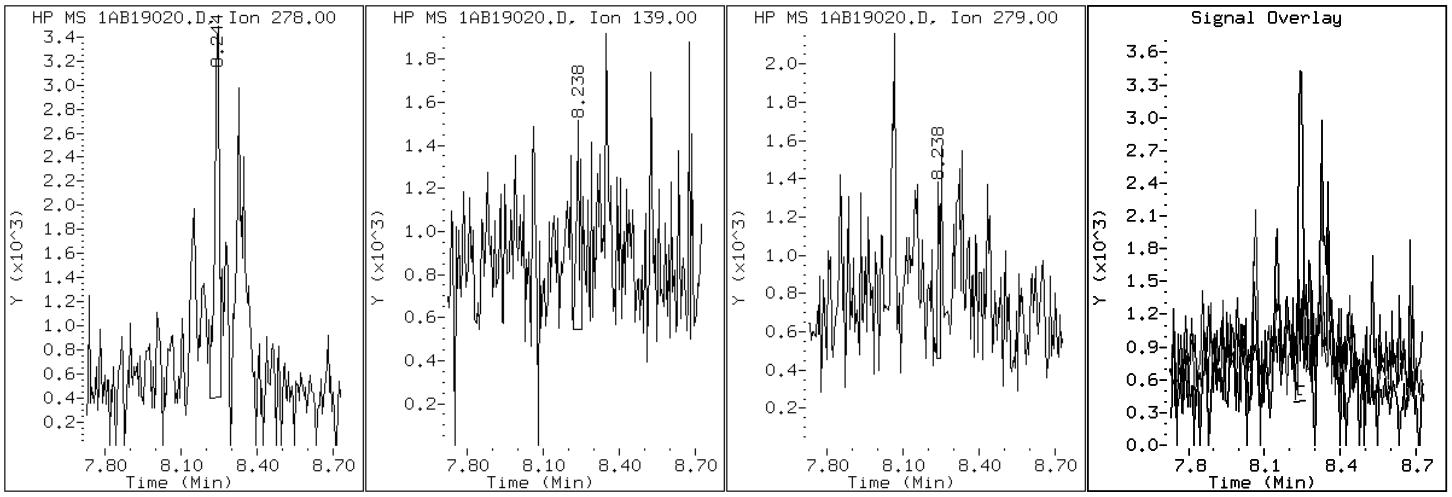
Client ID: FM0123A-CSD

Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a

Operator: SCC

25 Dibenzo(a,h)anthracene



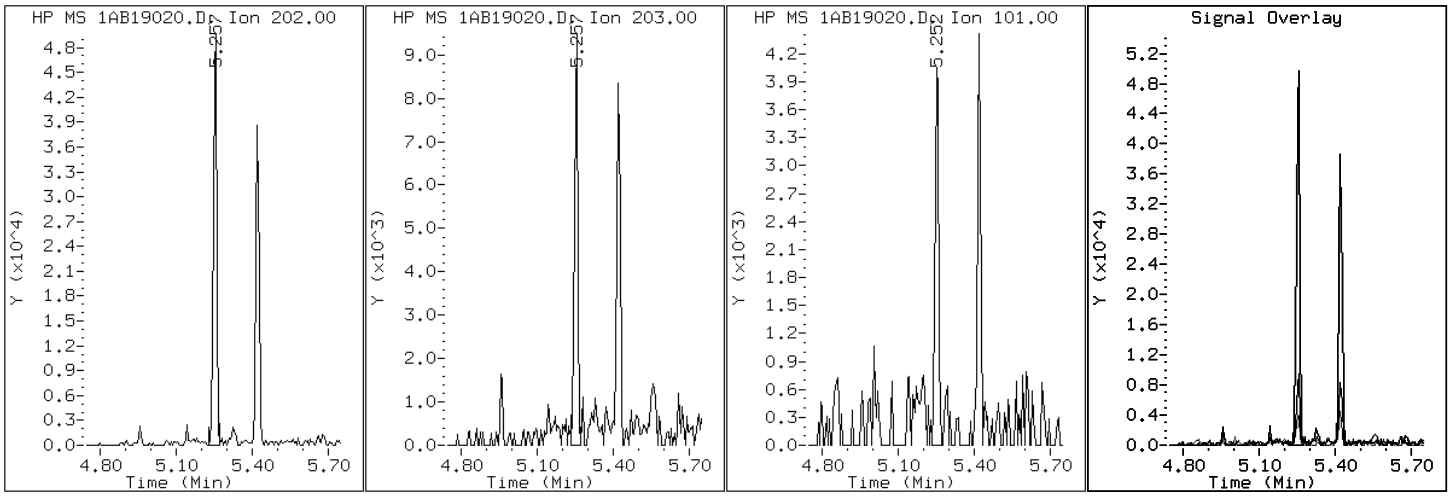
Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

Client ID: FM0123A-CSD Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a Operator: SCC

15 Fluoranthene



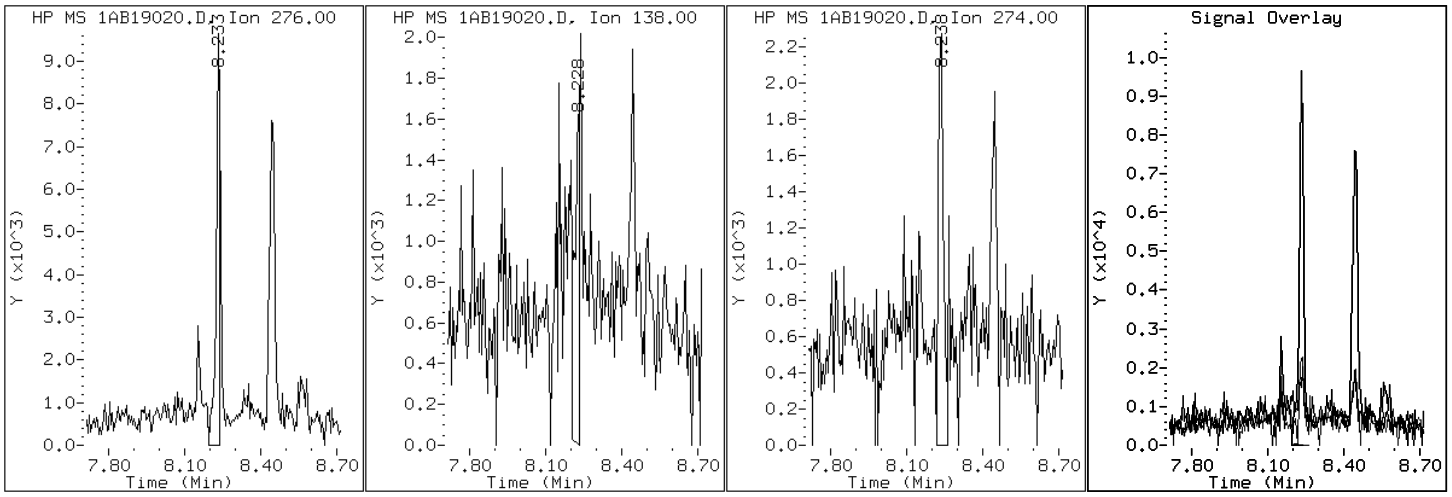
Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

Client ID: FM0123A-CSD Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a Operator: SCC

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



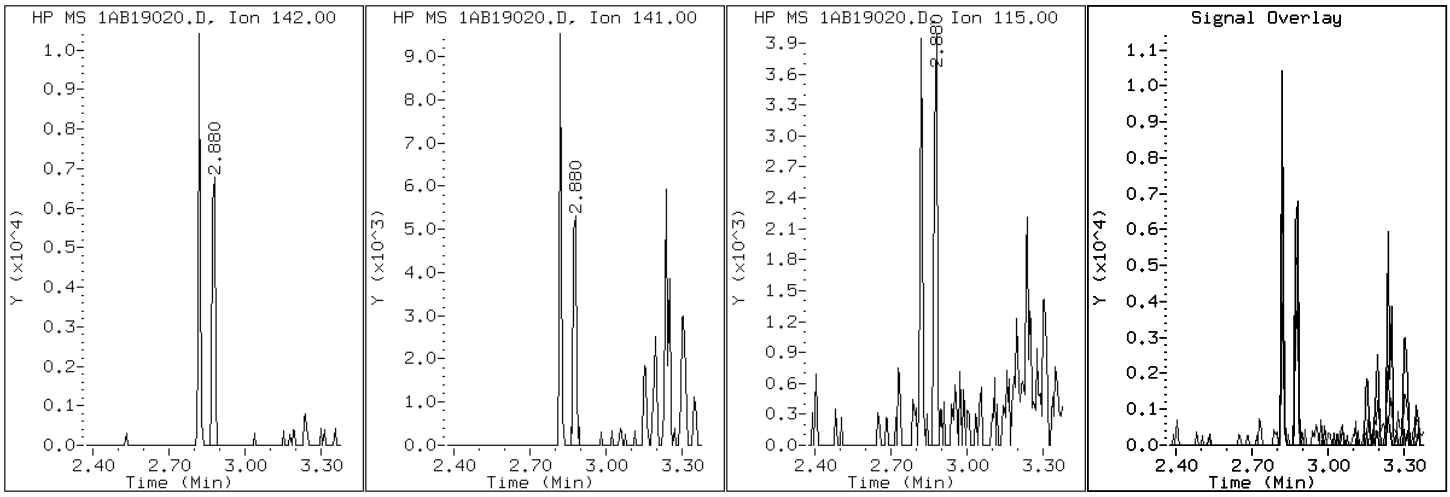
Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

Client ID: FM0123A-CSD Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a Operator: SCC

4 1-Methylnaphthalene



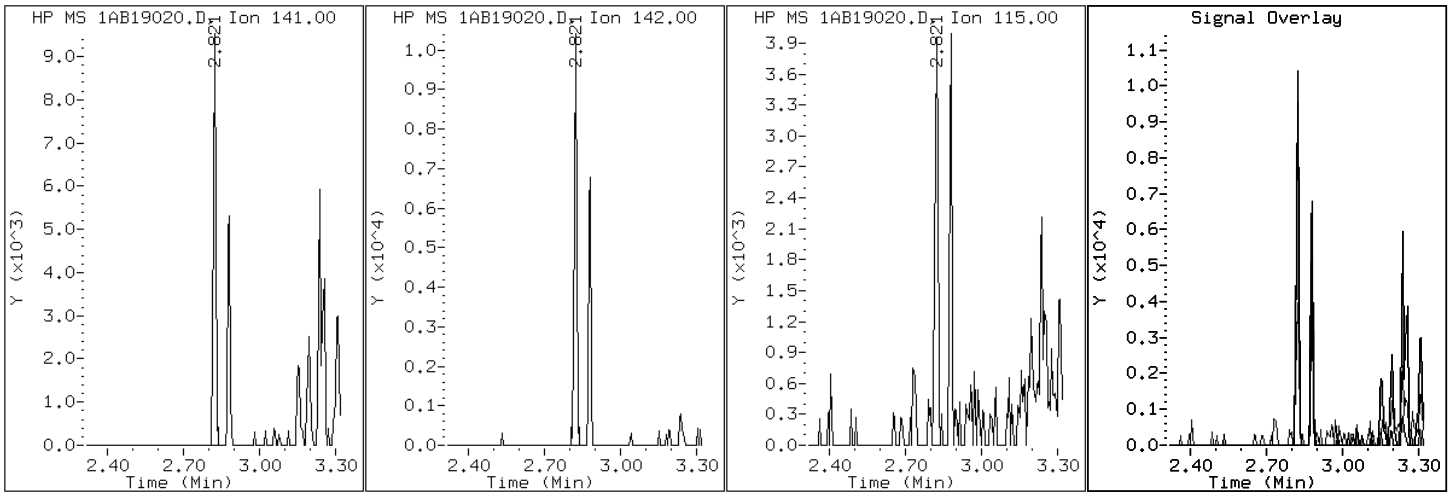
Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

Client ID: FM0123A-CSD Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

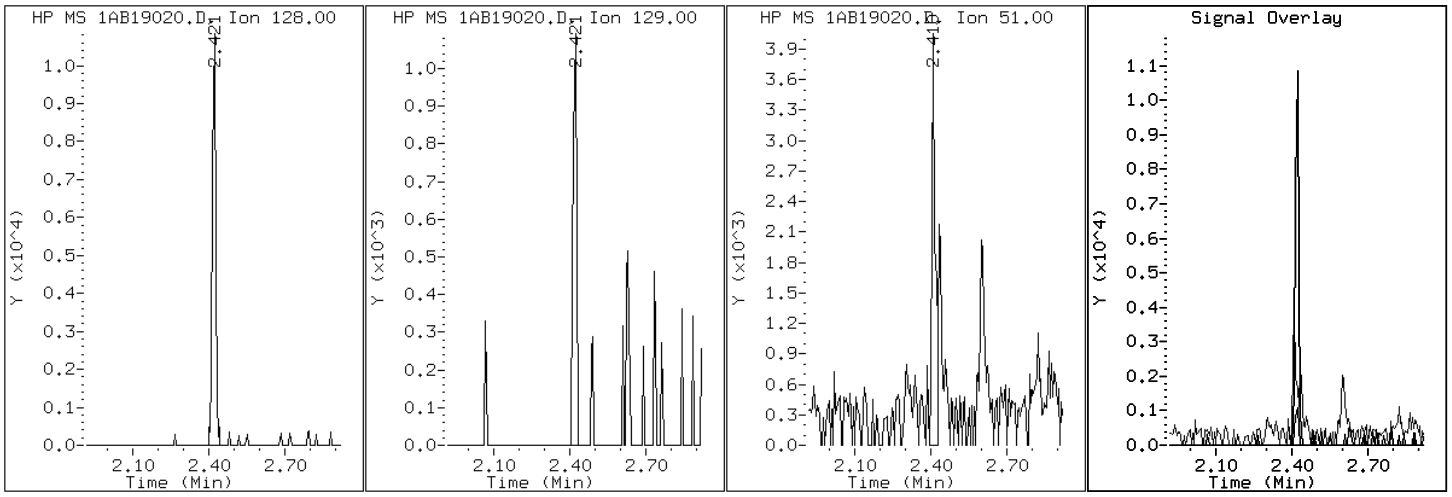
Client ID: FM0123A-CSD

Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a

Operator: SCC

2 Naphthalene



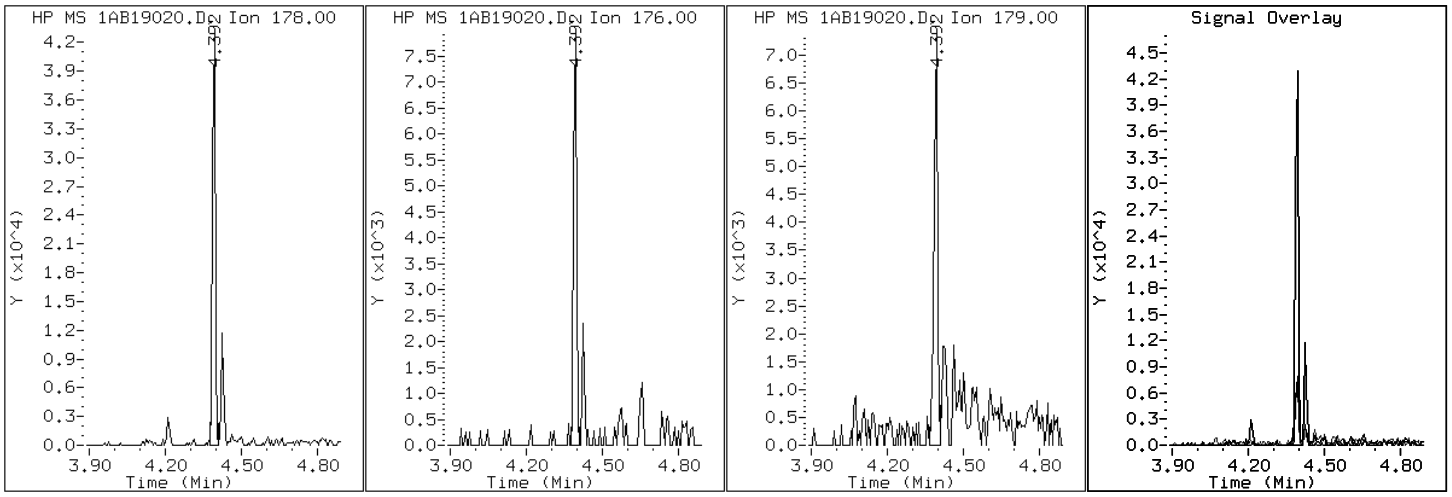
Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

Client ID: FM0123A-CSD Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a Operator: SCC

11 Phenanthrene



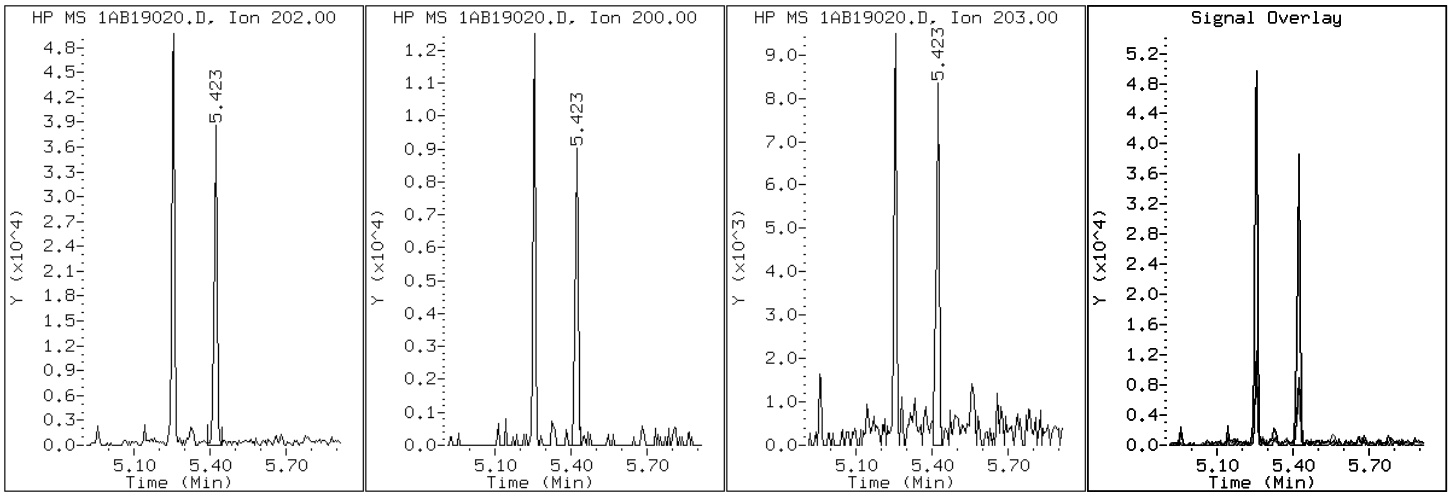
Data File: 1AB19020.D

Date: 19-FEB-2013 16:42

Client ID: FM0123A-CSD Instrument: BSMA5973.i

Sample Info: 680-87320-a-4-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB19020.D
Inj. Date and Time: 19-FEB-2013 16:42
Instrument ID: BSMA5973.i
Client ID: FM0123A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

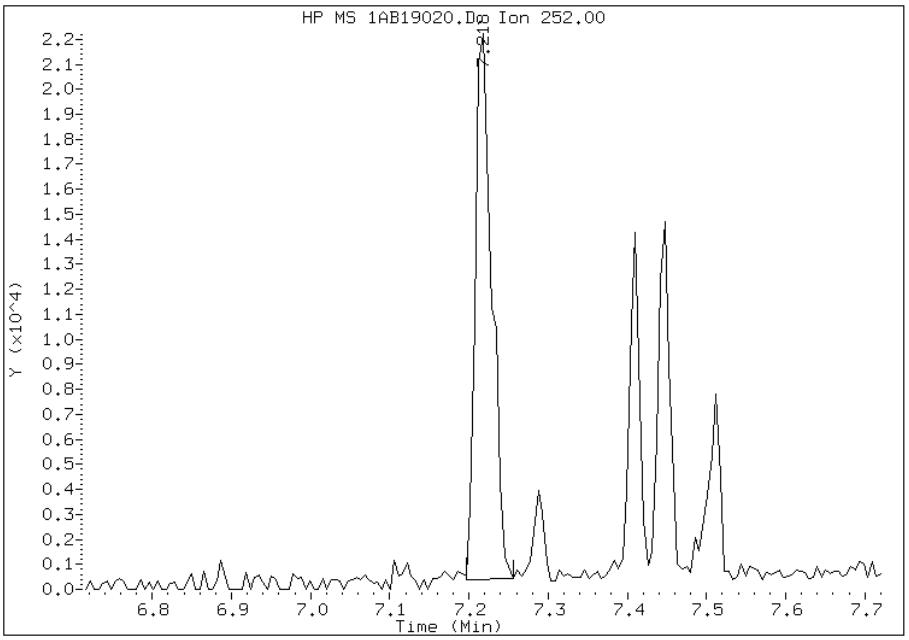
Processing Integration Results

RT: 7.22

Response: 31125

Amount: 1

Conc: 478



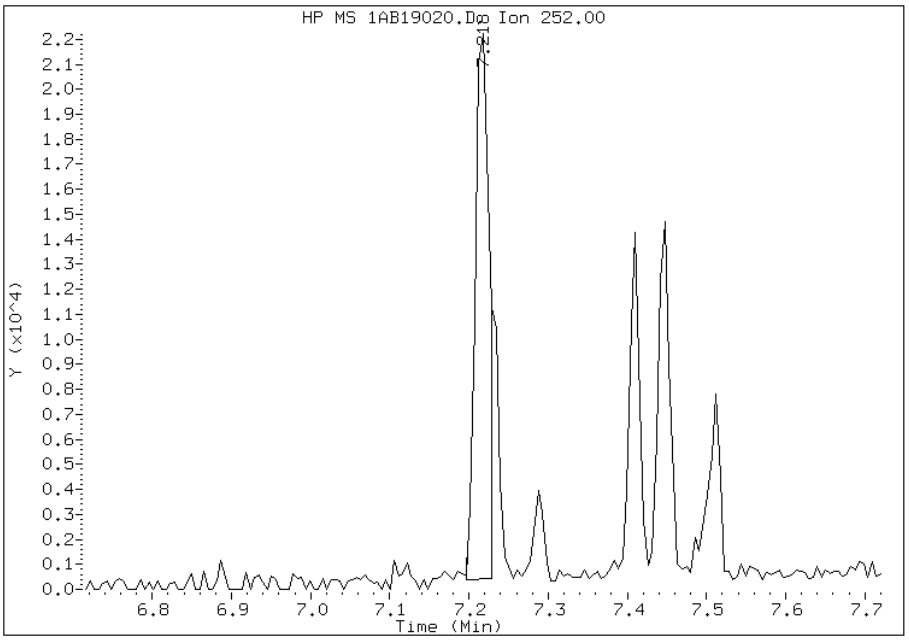
Manual Integration Results

RT: 7.22

Response: 26287

Amount: 1

Conc: 404



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19020.D
Inj. Date and Time: 19-FEB-2013 16:42
Instrument ID: BSMA5973.i
Client ID: FM0123A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

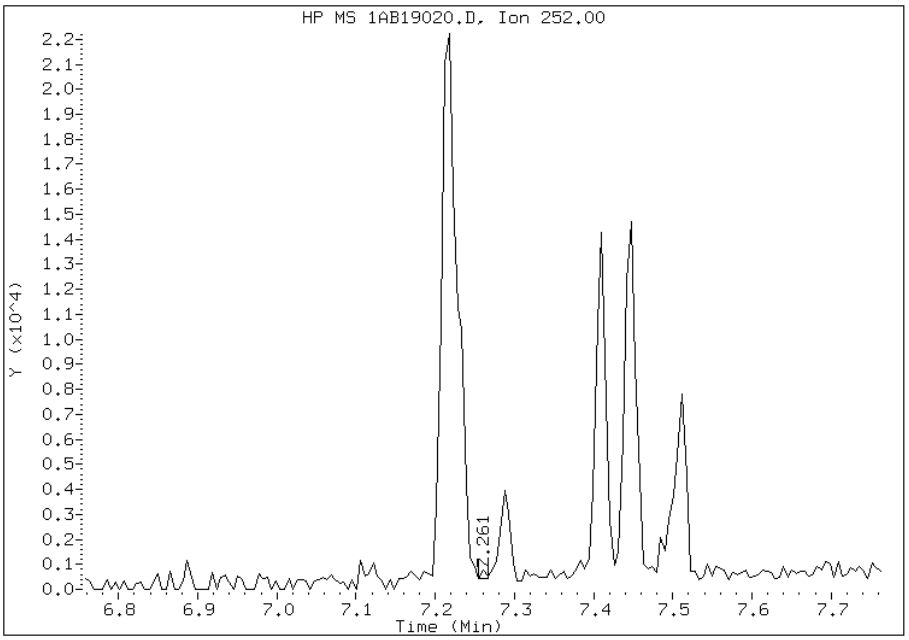
Processing Integration Results

RT: 7.26

Response: 125

Amount: 0

Conc: 2



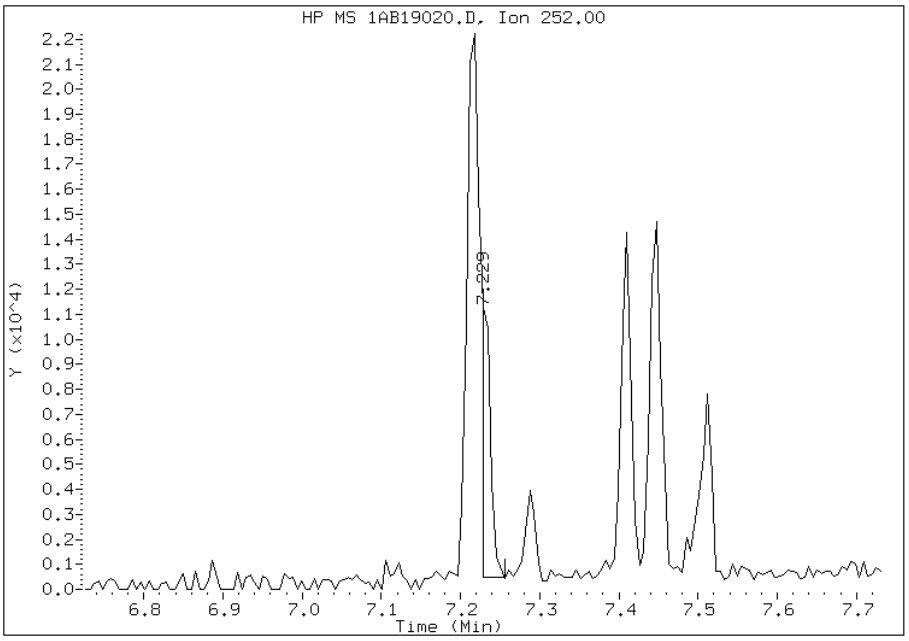
Manual Integration Results

RT: 7.23

Response: 8248

Amount: 0

Conc: 121



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19020.D
Inj. Date and Time: 19-FEB-2013 16:42
Instrument ID: BSMA5973.i
Client ID: FM0123A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

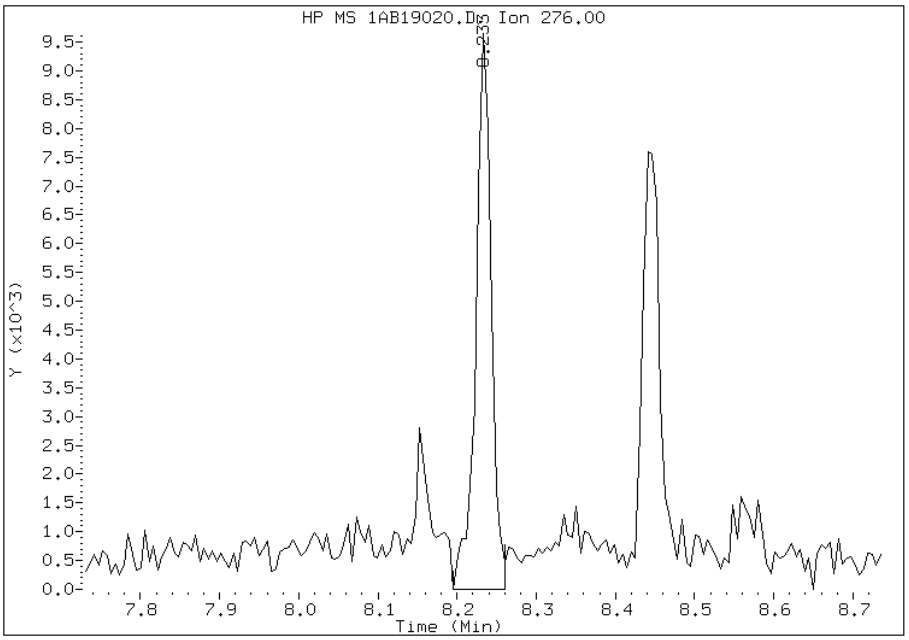
Processing Integration Results

RT: 8.23

Response: 12819

Amount: 1

Conc: 263



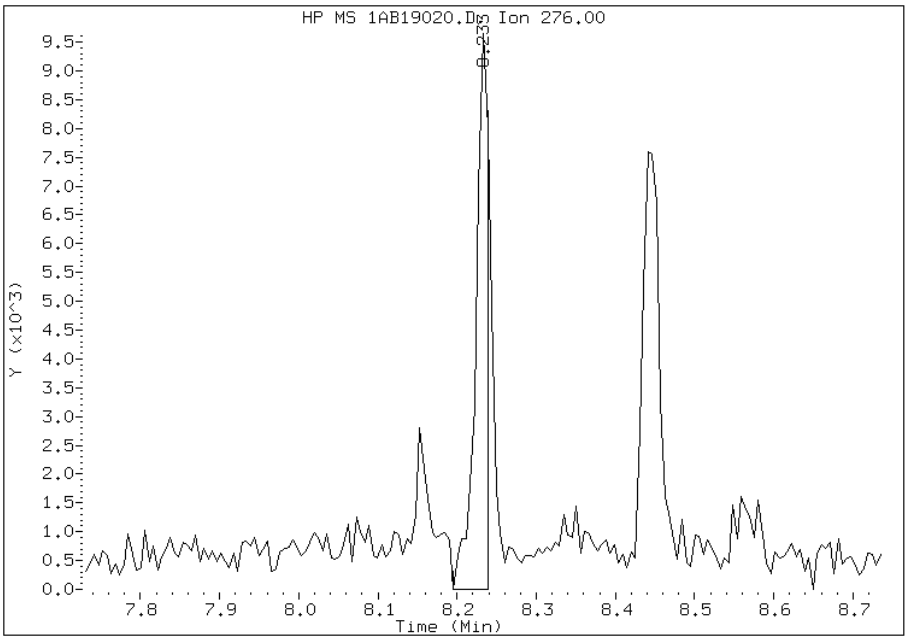
Manual Integration Results

RT: 8.23

Response: 10244

Amount: 1

Conc: 210



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: FM0138C-CS | Lab Sample ID: 680-87320-5

Matrix: Solid | Lab File ID: 1AB19021.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:45

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 15.32(g) | Date Analyzed: 02/19/2013 16:58

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

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

% Moisture: 12.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	45	U	45	5.6
120-12-7	Anthracene	9.4	U	9.4	4.7
56-55-3	Benzo[a]anthracene	19		9.0	4.4
50-32-8	Benzo[a]pyrene	13		12	5.8
205-99-2	Benzo[b]fluoranthene	24		14	6.9
191-24-2	Benzo[g,h,i]perylene	18	J	22	4.9
207-08-9	Benzo[k]fluoranthene	9.5		9.0	4.0
218-01-9	Chrysene	35		10	5.1
53-70-3	Dibenz(a,h)anthracene	22	U	22	4.6
206-44-0	Fluoranthene	26		22	4.5
86-73-7	Fluorene	22	U	22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	11	J	22	8.0
90-12-0	1-Methylnaphthalene	13	J	45	4.9
91-57-6	2-Methylnaphthalene	20	J	45	8.0
91-20-3	Naphthalene	19	J	45	4.9
85-01-8	Phenanthrene	30		9.0	4.4
129-00-0	Pyrene	18	J	22	4.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\1AB19021.D
Lab Smp Id: 680-87320-A-5-A Client Smp ID: FM0138C-CS
Inj Date : 19-FEB-2013 16:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-5-a
Misc Info : 680-87320-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.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	15.320	Weight Extracted
M	12.925	% 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	2.409	2.405	(1.000)	820636	40.0000	
* 6 Acenaphthene-d10	164	3.435	3.431	(1.000)	553071	40.0000	
* 10 Phenanthrene-d10	188	4.381	4.371	(1.000)	835554	40.0000	
$ 14 o-Terphenyl	230	4.658	4.649	(1.063)	74929	6.17154	462.6392
* 18 Chrysene-d12	240	6.405	6.390	(1.000)	644935	40.0000	
* 23 Perylene-d12	264	7.506	7.480	(1.000)	849843	40.0000	
2 Naphthalene	128	2.420	2.416	(1.004)	4935	0.24776	18.5726(Q)
3 2-Methylnaphthalene	141	2.821	2.816	(1.171)	2779	0.26043	19.5225
4 1-Methylnaphthalene	142	2.880	2.875	(1.195)	2095	0.17344	13.0013
11 Phenanthrene	178	4.391	4.387	(1.002)	9048	0.39660	29.7300
15 Fluoranthene	202	5.257	5.247	(1.200)	7886	0.34865	26.1357
16 Pyrene	202	5.422	5.413	(0.847)	5650	0.24257	18.1841
17 Benzo(a)anthracene	228	6.400	6.374	(0.999)	4858	0.25227	18.9112(MH)
19 Chrysene	228	6.416	6.406	(1.002)	8744	0.46585	34.9214(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
20 Benzo(b)fluoranthene	252	7.212	7.202	(0.961)	7454	0.31426	23.5578(H)
21 Benzo(k)fluoranthene	252	7.233	7.224	(0.964)	3138	0.12654	9.4855(MH)
22 Benzo(a)pyrene	252	7.447	7.432	(0.992)	3842	0.17057	12.7866
24 Indeno(1,2,3-cd)pyrene	276	8.232	8.212	(1.097)	2691	0.15130	11.3420(M)
26 Benzo(g,h,i)perylene	276	8.441	8.420	(1.125)	4497	0.24406	18.2953

QC Flag Legend

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

Data File: 1AB19021.D

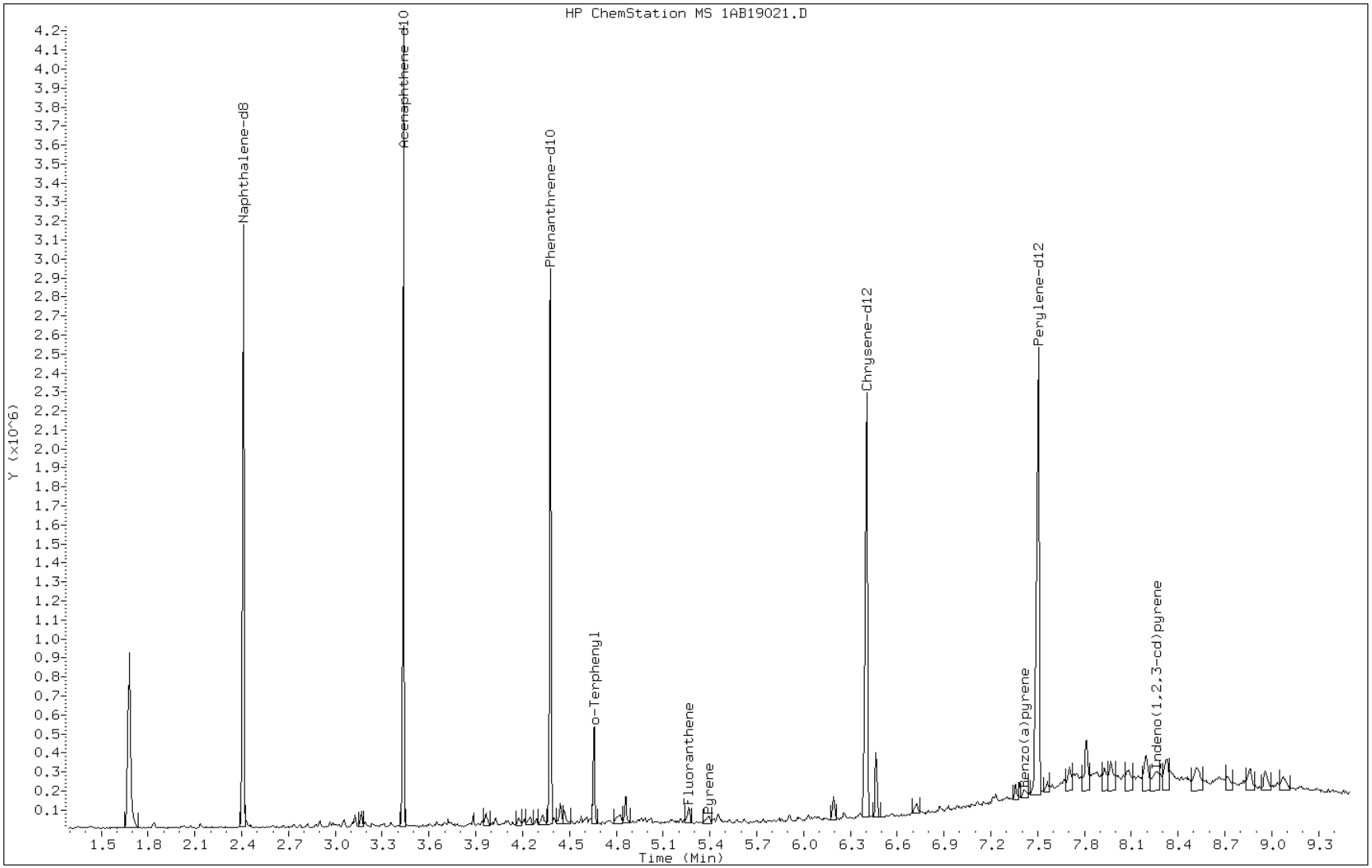
Date: 19-FEB-2013 16:58

Client ID: FM0138C-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a

Operator: SCC



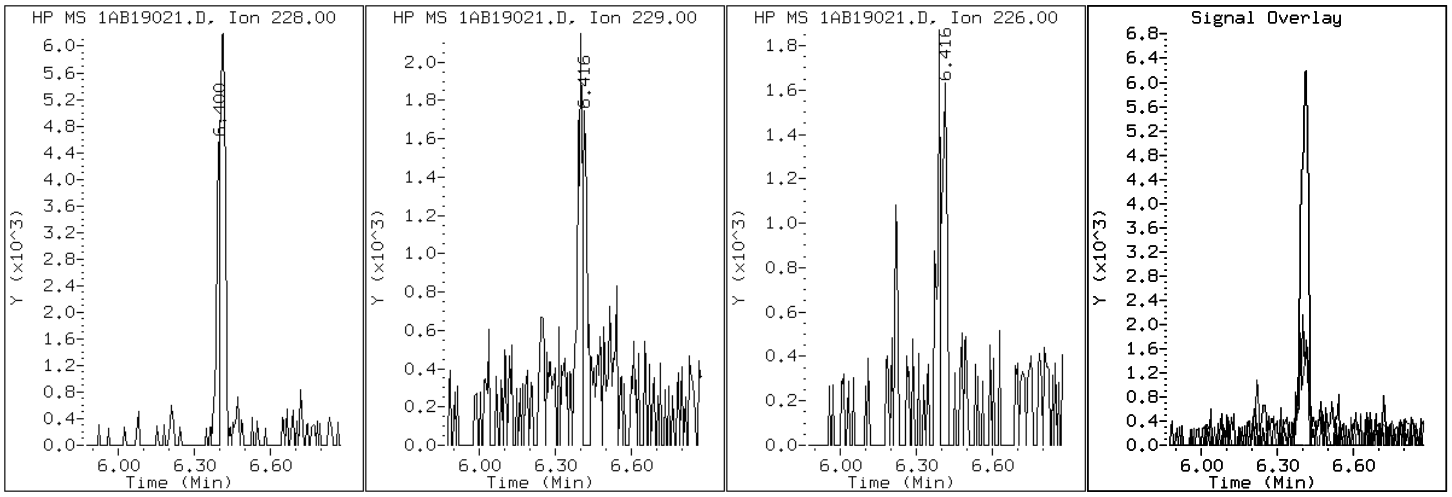
Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

Client ID: FM0138C-CS | Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a | Operator: SCC

17 Benzo(a)anthracene



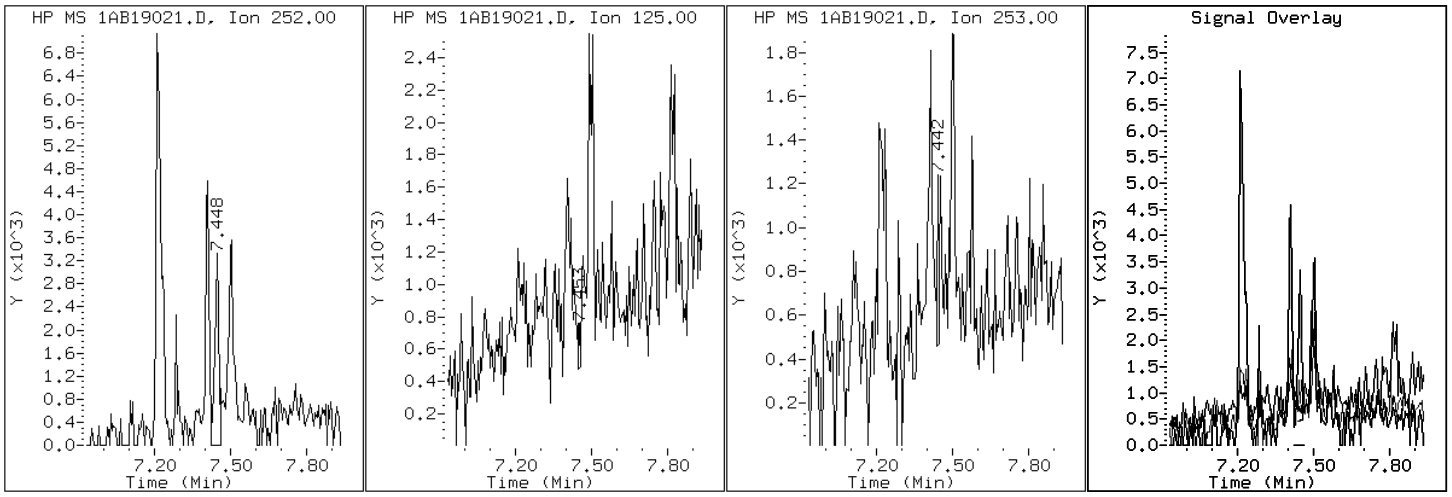
Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

Client ID: FM0138C-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a Operator: SCC

22 Benzo(a)pyrene



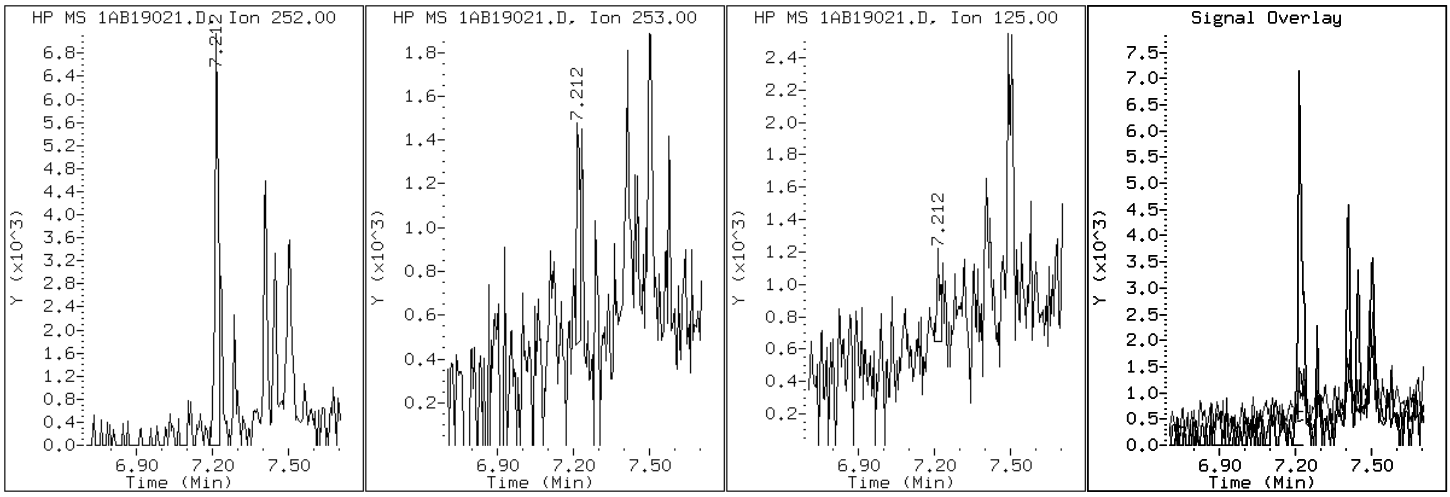
Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

Client ID: FM0138C-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

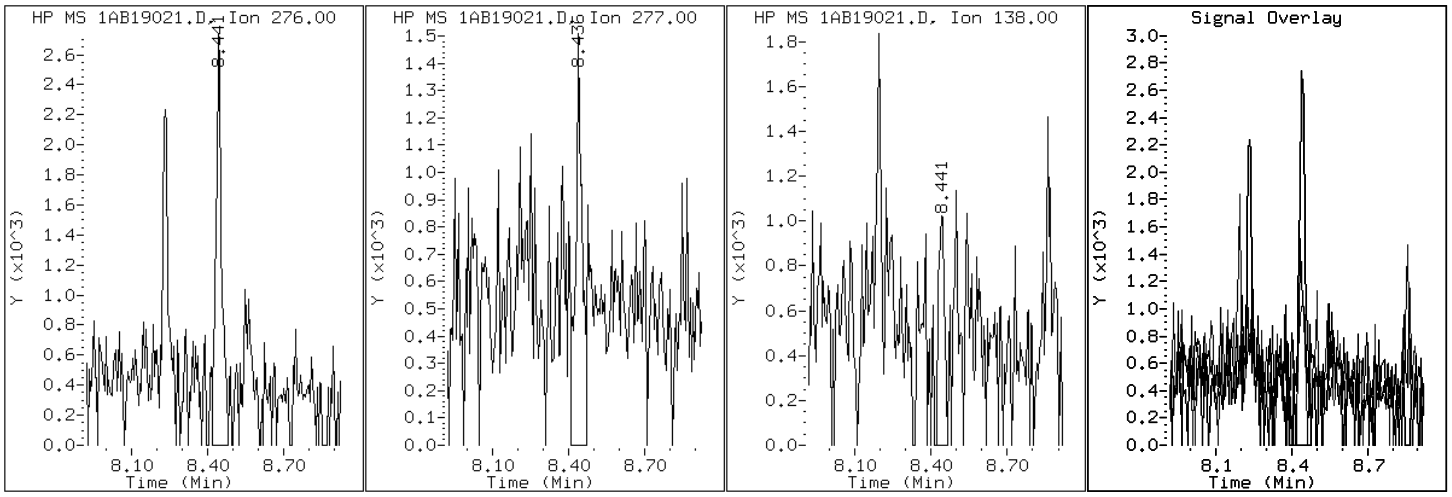
Client ID: FM0138C-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a

Operator: SCC

26 Benzo(g,h,i)perylene



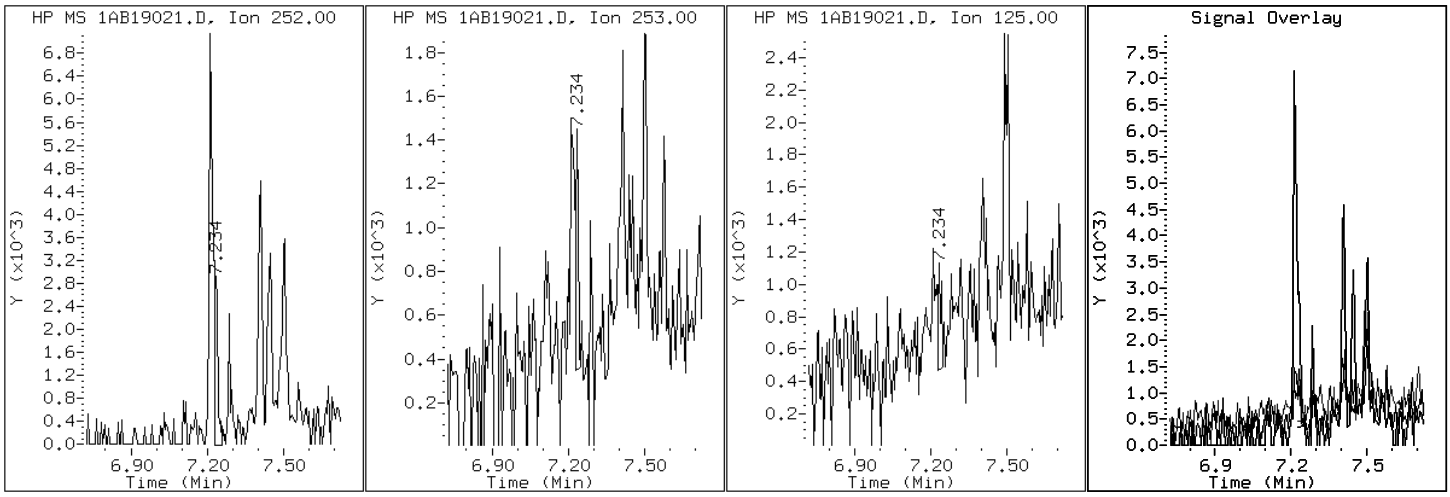
Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

Client ID: FM0138C-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

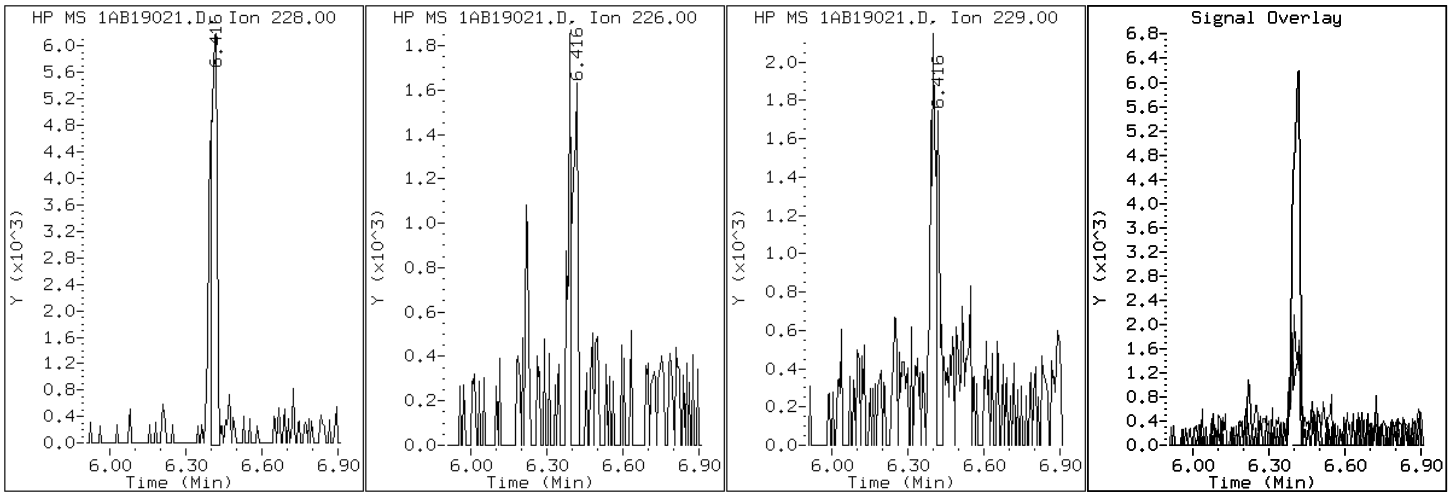
Client ID: FM0138C-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a

Operator: SCC

19 Chrysene



Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

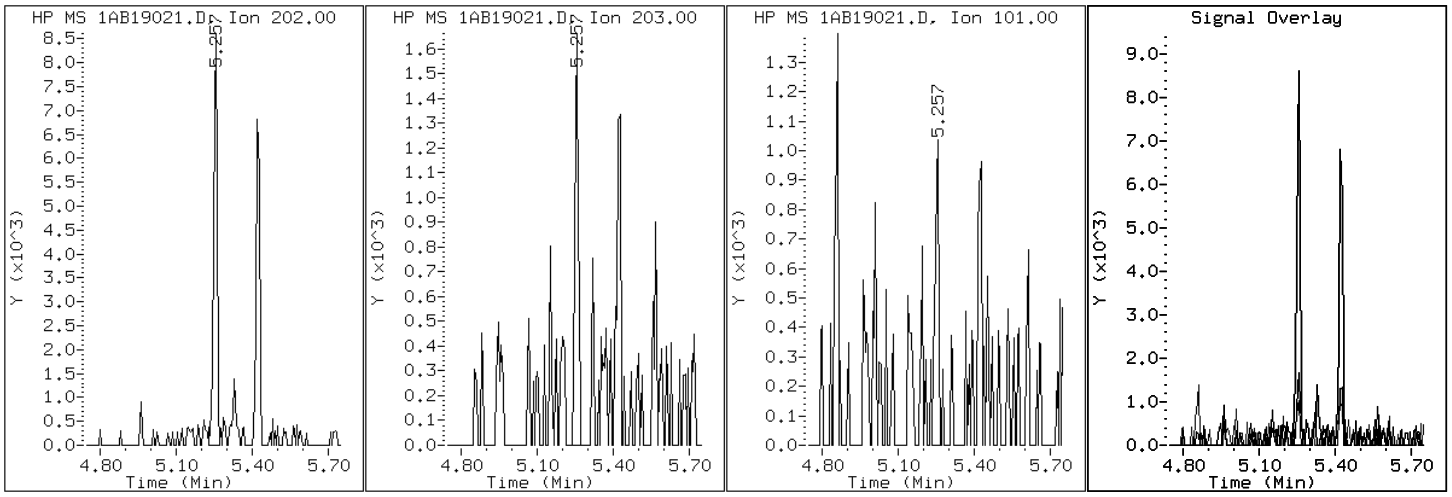
Client ID: FM0138C-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a

Operator: SCC

15 Fluoranthene



Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

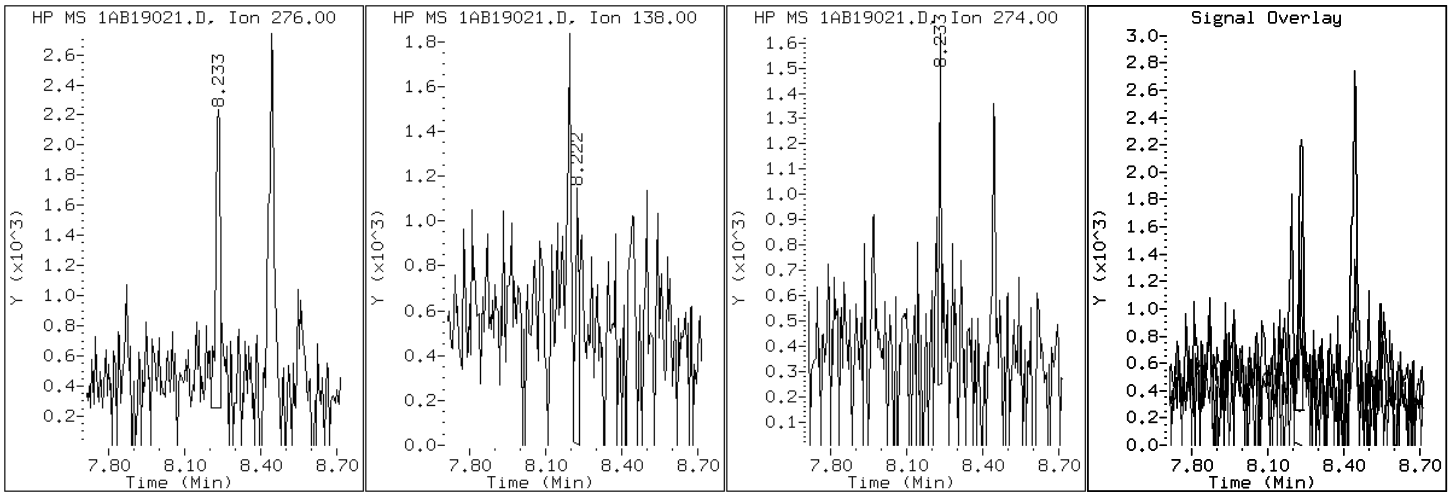
Client ID: FM0138C-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a

Operator: SCC

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



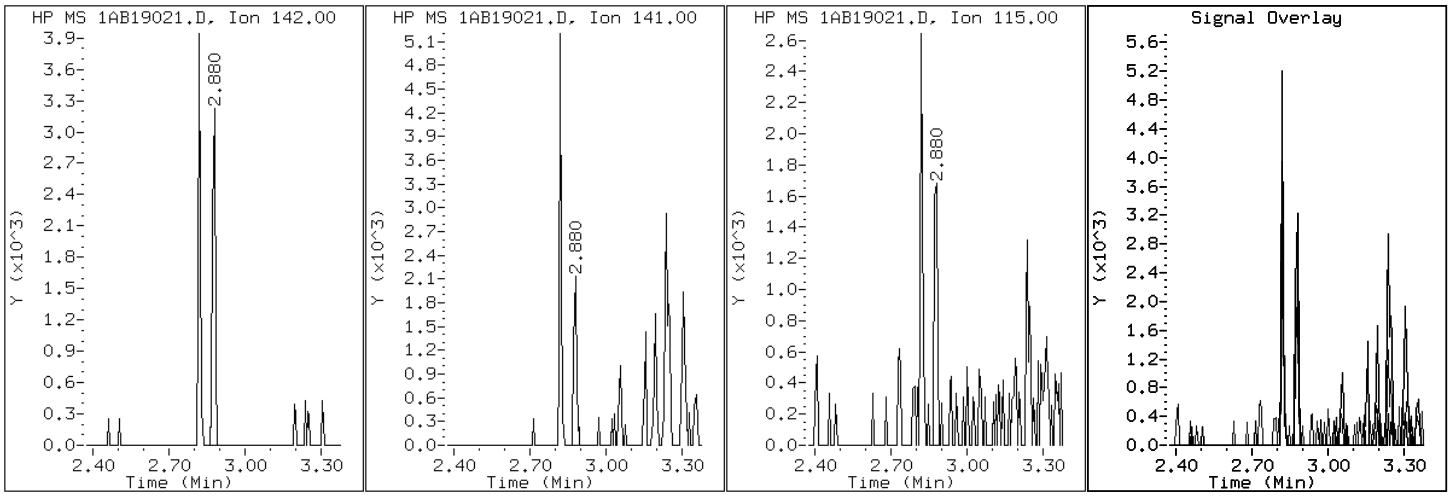
Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

Client ID: FM0138C-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a Operator: SCC

4 1-Methylnaphthalene



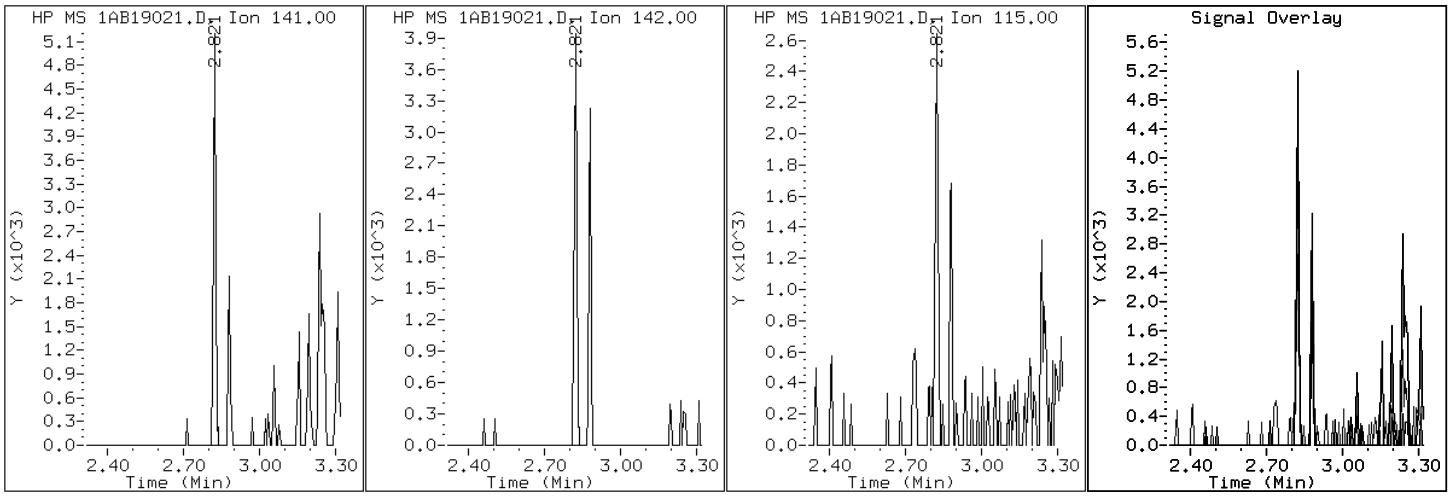
Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

Client ID: FM0138C-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

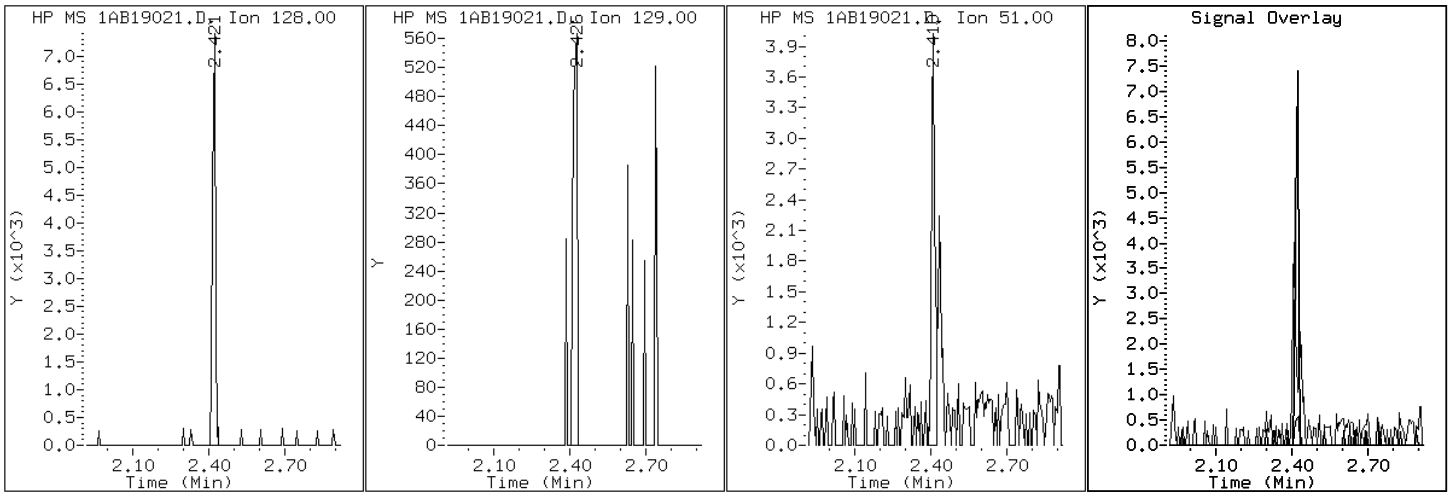
Client ID: FM0138C-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a

Operator: SCC

2 Naphthalene



Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

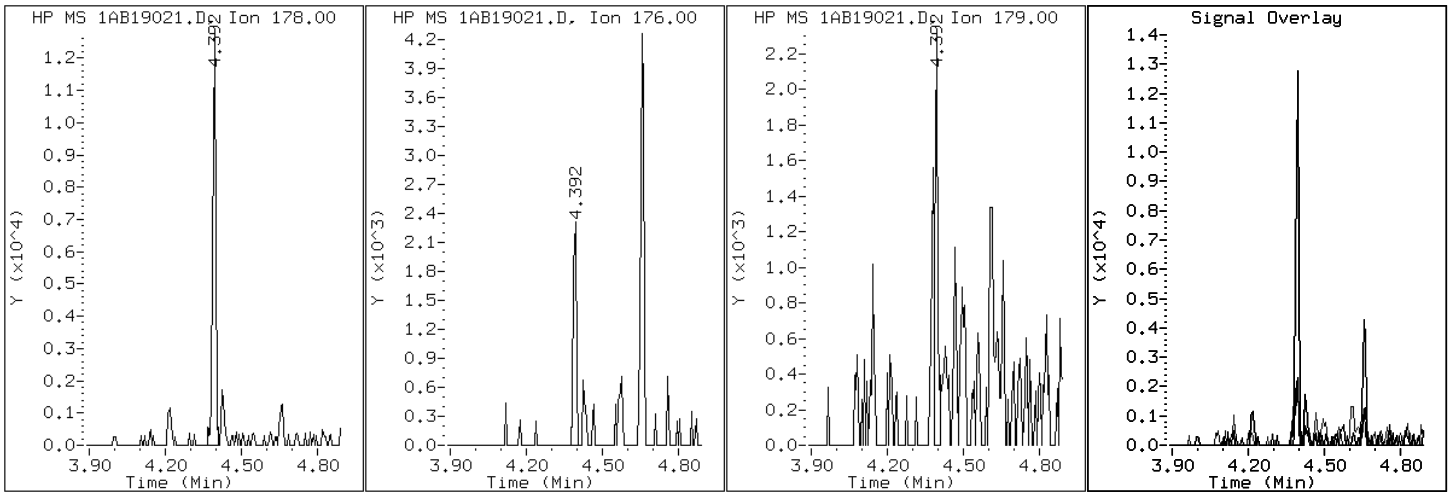
Client ID: FM0138C-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a

Operator: SCC

11 Phenanthrene



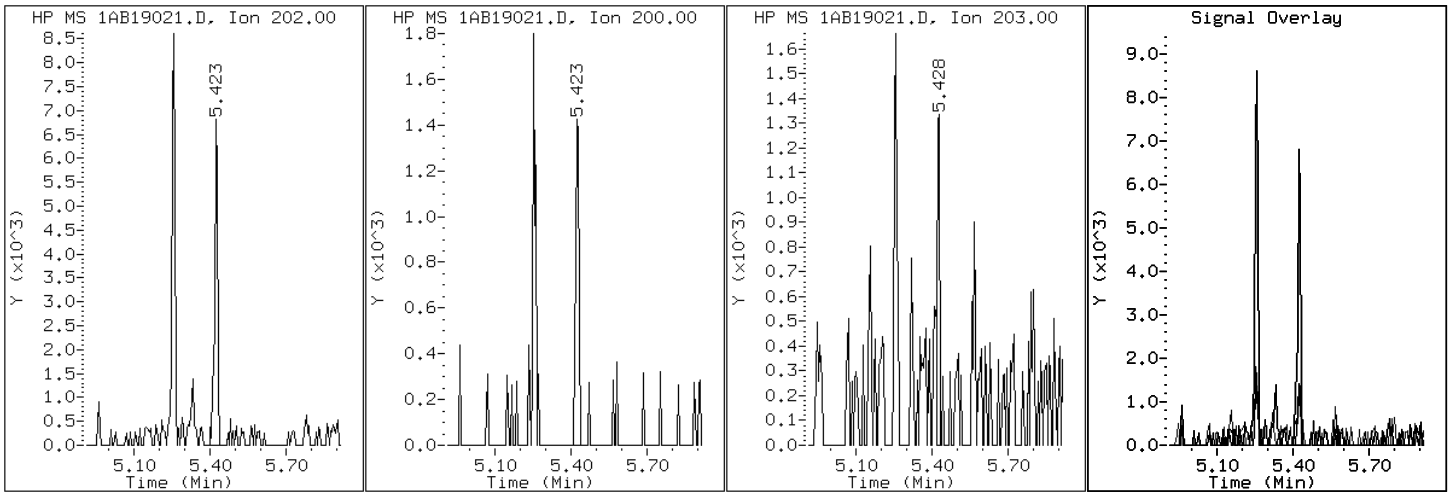
Data File: 1AB19021.D

Date: 19-FEB-2013 16:58

Client ID: FM0138C-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-5-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB19021.D
Inj. Date and Time: 19-FEB-2013 16:58
Instrument ID: BSMA5973.i
Client ID: FM0138C-CS
Compound: 17 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 02/20/2013

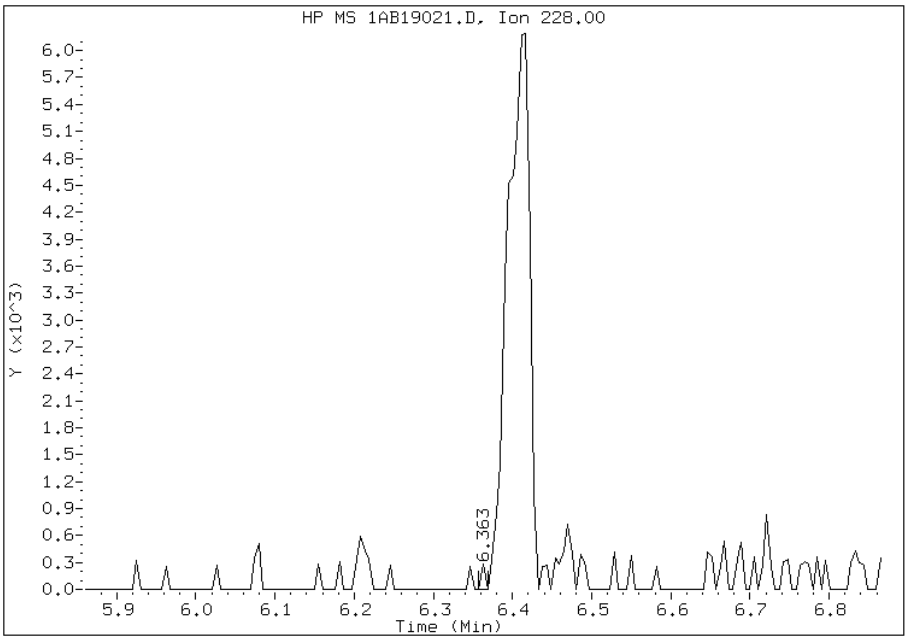
Processing Integration Results

RT: 6.36

Response: 90

Amount: 0

Conc: 0



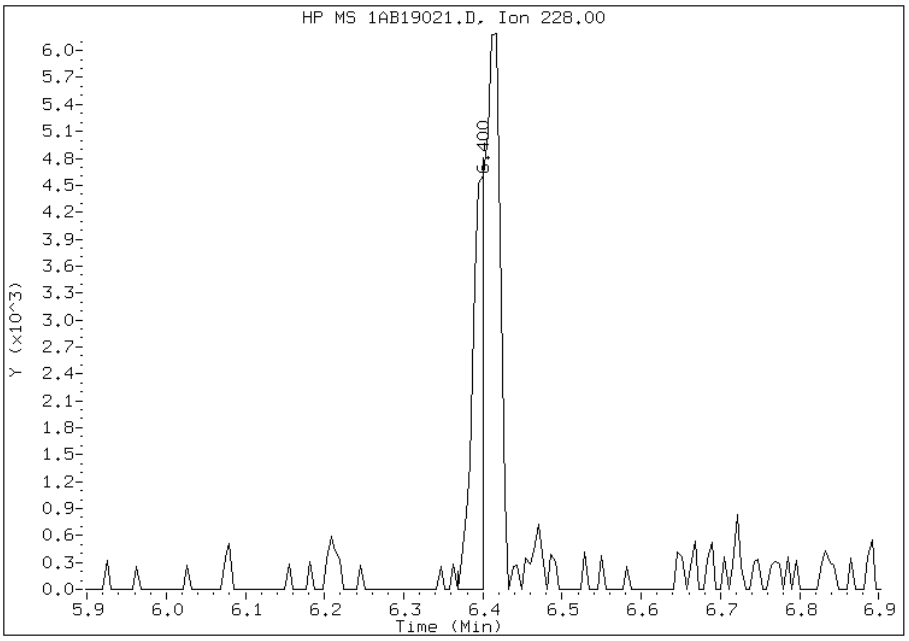
Manual Integration Results

RT: 6.40

Response: 4858

Amount: 0

Conc: 19



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19021.D
Inj. Date and Time: 19-FEB-2013 16:58
Instrument ID: BSMA5973.i
Client ID: FM0138C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

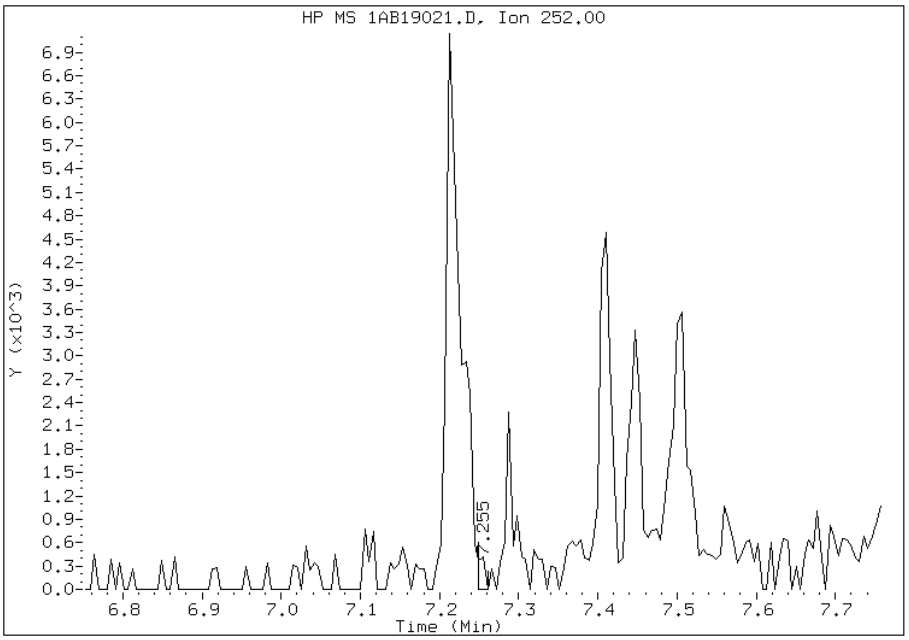
Processing Integration Results

RT: 7.26

Response: 250

Amount: 0

Conc: 1



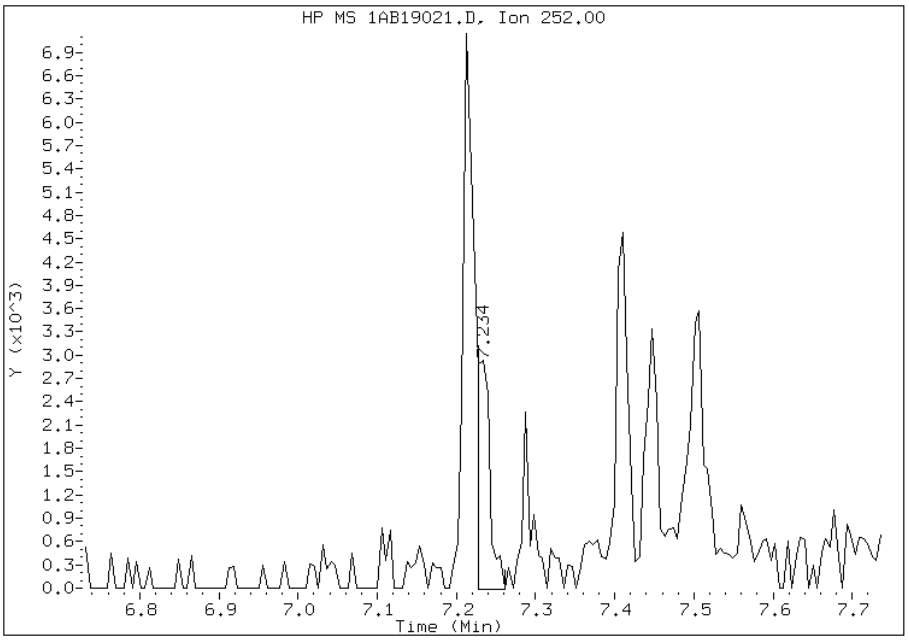
Manual Integration Results

RT: 7.23

Response: 3138

Amount: 0

Conc: 9



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19021.D
Inj. Date and Time: 19-FEB-2013 16:58
Instrument ID: BSMA5973.i
Client ID: FM0138C-CS
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 02/20/2013

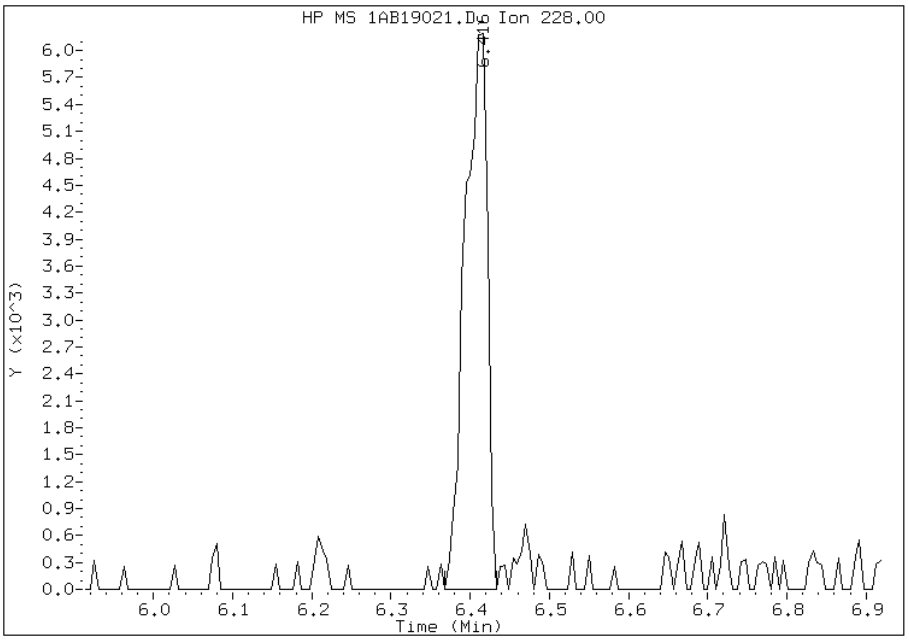
Processing Integration Results

RT: 6.42

Response: 12044

Amount: 1

Conc: 48



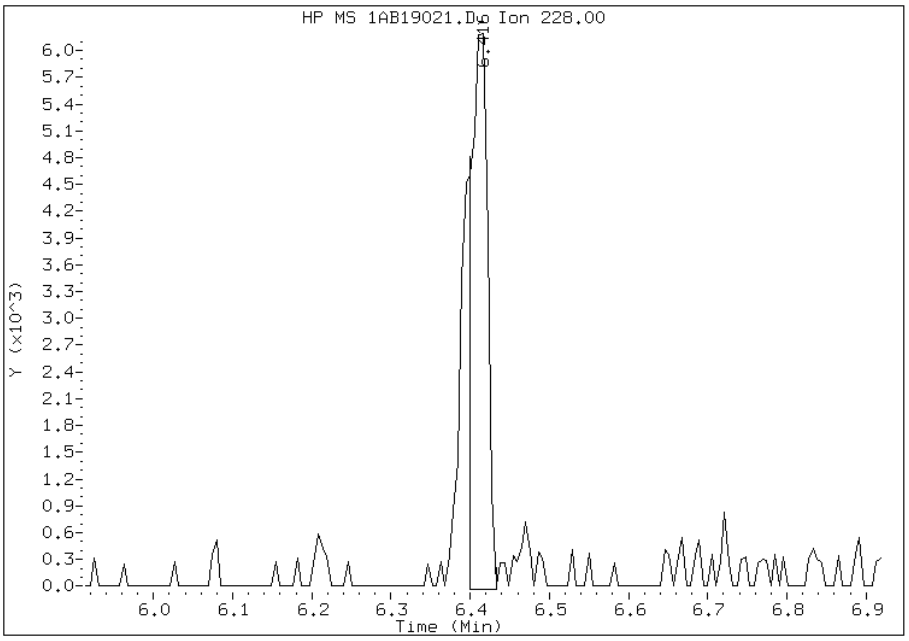
Manual Integration Results

RT: 6.42

Response: 8744

Amount: 0

Conc: 35



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19021.D
Inj. Date and Time: 19-FEB-2013 16:58
Instrument ID: BSMA5973.i
Client ID: FM0138C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

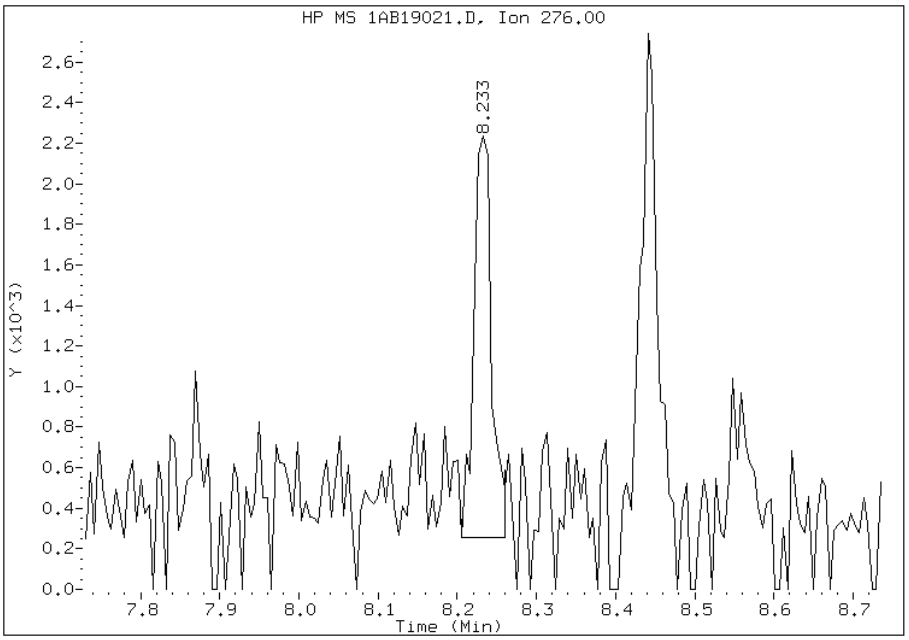
Processing Integration Results

RT: 8.23

Response: 3047

Amount: 0

Conc: 13



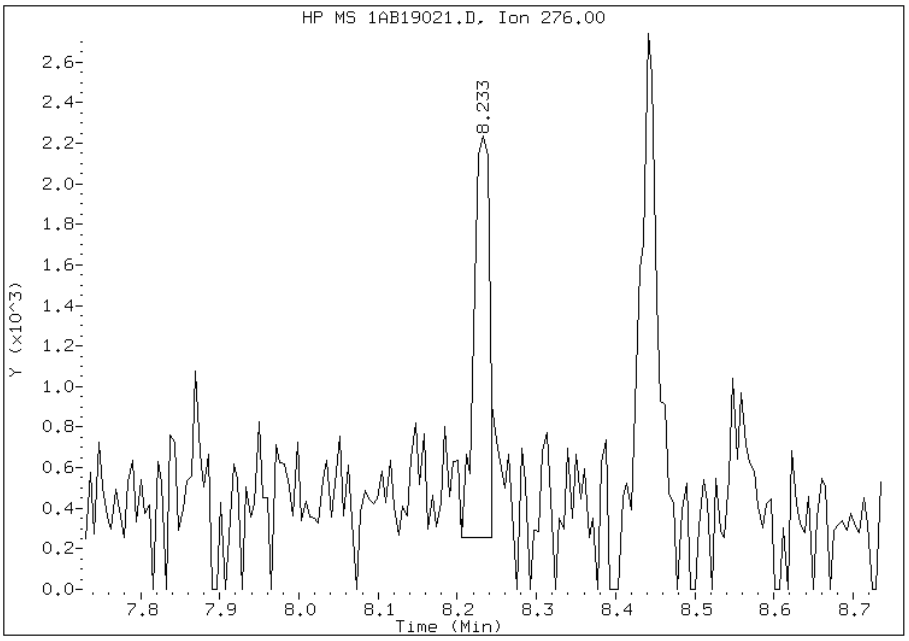
Manual Integration Results

RT: 8.23

Response: 2691

Amount: 0

Conc: 11



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: FM0153B-CS | Lab Sample ID: 680-87320-6

Matrix: Solid | Lab File ID: 1AB19022.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:56

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 15.17(g) | Date Analyzed: 02/19/2013 17:13

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

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

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	49	J	200	24
120-12-7	Anthracene	79		41	20
56-55-3	Benzo[a]anthracene	170		39	19
50-32-8	Benzo[a]pyrene	130		51	25
205-99-2	Benzo[b]fluoranthene	250		59	30
191-24-2	Benzo[g,h,i]perylene	170		98	21
207-08-9	Benzo[k]fluoranthene	70		39	18
218-01-9	Chrysene	270		44	22
53-70-3	Dibenz(a,h)anthracene	62	J	98	20
206-44-0	Fluoranthene	160		98	20
86-73-7	Fluorene	31	J	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	130		98	35
90-12-0	1-Methylnaphthalene	150	J	200	21
91-57-6	2-Methylnaphthalene	210		200	35
91-20-3	Naphthalene	140	J	200	21
85-01-8	Phenanthrene	250		39	19
129-00-0	Pyrene	140		98	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\1AB19022.D
Lab Smp Id: 680-87320-A-6-A Client Smp ID: FM0153B-CS
Inj Date : 19-FEB-2013 17:13
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-6-a
Misc Info : 680-87320-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 22
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	18.885	% 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	2.410	2.405	(1.000)	682737	40.0000	
* 6 Acenaphthene-d10	164	3.436	3.431	(1.000)	463637	40.0000	
* 10 Phenanthrene-d10	188	4.376	4.371	(1.000)	713395	40.0000	
$ 14 o-Terphenyl	230	4.654	4.649	(1.063)	24049	2.31999	754.1481
* 18 Chrysene-d12	240	6.401	6.390	(1.000)	559425	40.0000	
* 23 Perylene-d12	264	7.501	7.480	(1.000)	744880	40.0000	
2 Naphthalene	128	2.421	2.416	(1.004)	6930	0.41818	135.9375
3 2-Methylnaphthalene	141	2.822	2.816	(1.171)	5626	0.63372	206.0001
4 1-Methylnaphthalene	142	2.880	2.875	(1.195)	4780	0.47564	154.6148
5 Acenaphthylene	152	3.351	3.345	(0.975)	3073	0.15011	48.7949
9 Fluorene	166	3.762	3.757	(1.095)	1316	0.09446	30.7041
11 Phenanthrene	178	4.392	4.387	(1.004)	14771	0.75831	246.5020
12 Anthracene	178	4.424	4.419	(1.011)	4839	0.24366	79.2051
13 Carbazole	167	4.585	4.574	(1.048)	2012	0.11819	38.4192

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.252	5.247	(1.200)	9696	0.50207	163.2064
16 Pyrene	202	5.423	5.413	(0.847)	8821	0.43660	141.9253
17 Benzo(a)anthracene	228	6.396	6.374	(0.999)	8721	0.52210	169.7171(Q)
19 Chrysene	228	6.412	6.406	(1.002)	13289	0.81621	265.3205
20 Benzo(b)fluoranthene	252	7.218	7.202	(0.962)	15949	0.76716	249.3761(M)
21 Benzo(k)fluoranthene	252	7.229	7.224	(0.964)	4687	0.21563	70.0936(QMH)
22 Benzo(a)pyrene	252	7.448	7.432	(0.993)	8159	0.41328	134.3417
24 Indeno(1,2,3-cd)pyrene	276	8.233	8.212	(1.098)	6220	0.39900	129.7004(M)
25 Dibenzo(a,h)anthracene	278	8.244	8.228	(1.099)	2951	0.18935	61.5525
26 Benzo(g,h,i)perylene	276	8.447	8.420	(1.126)	8547	0.52922	172.0307(M)

QC Flag Legend

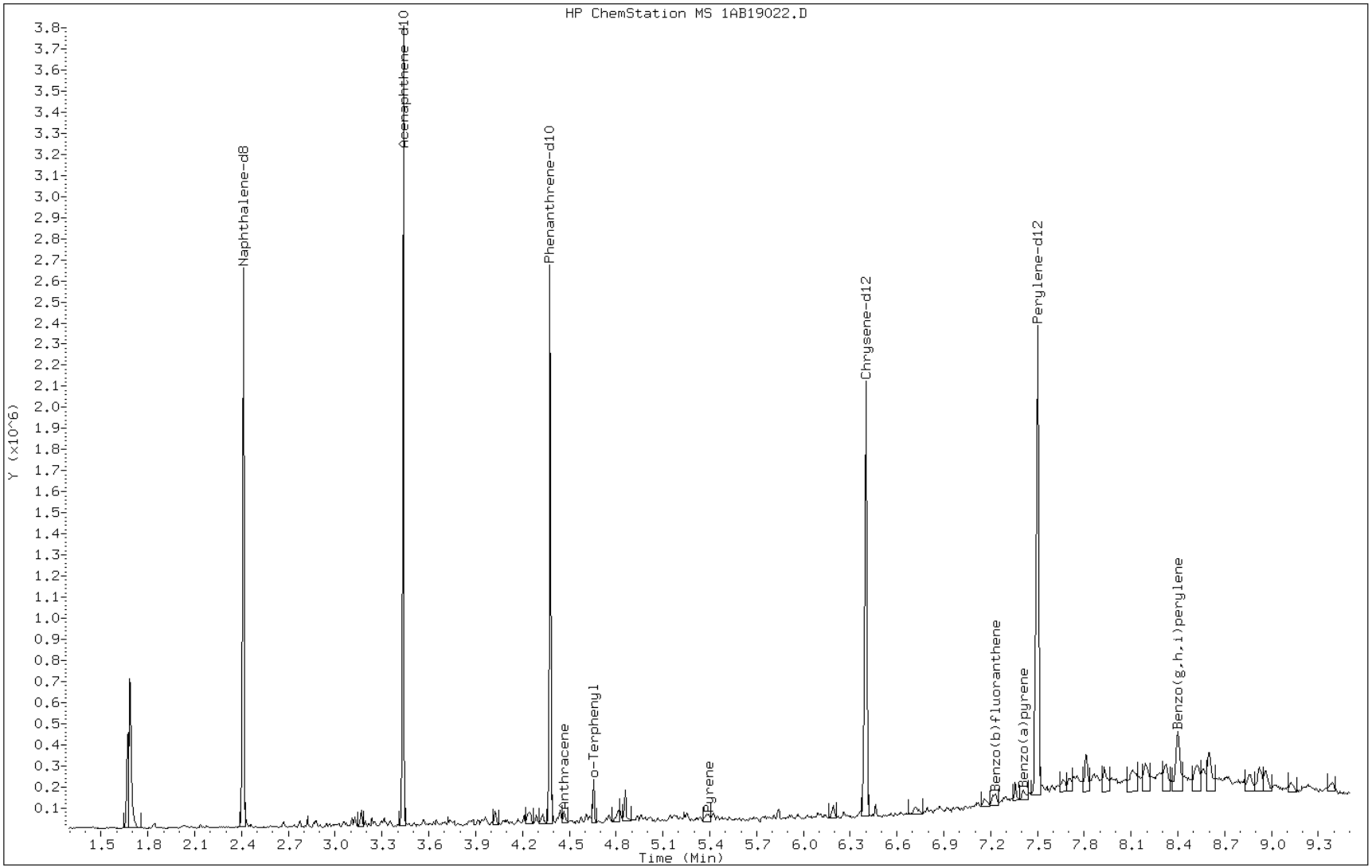
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

Client ID: FM0153B-CS | Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a | Operator: SCC



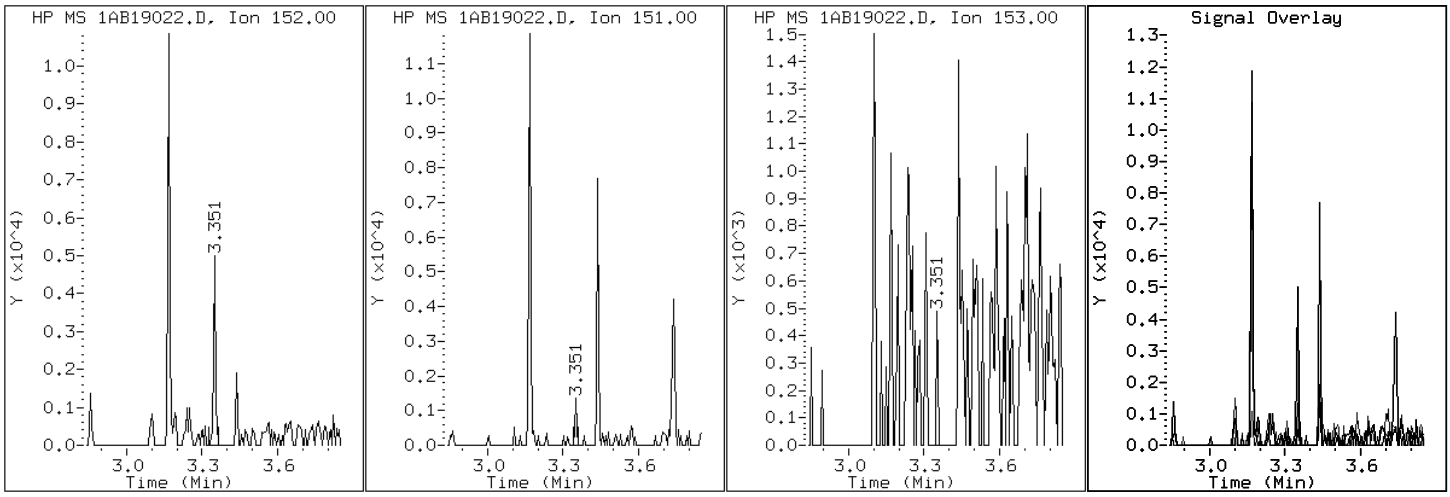
Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

Client ID: FM0153B-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a Operator: SCC

5 Acenaphthylene



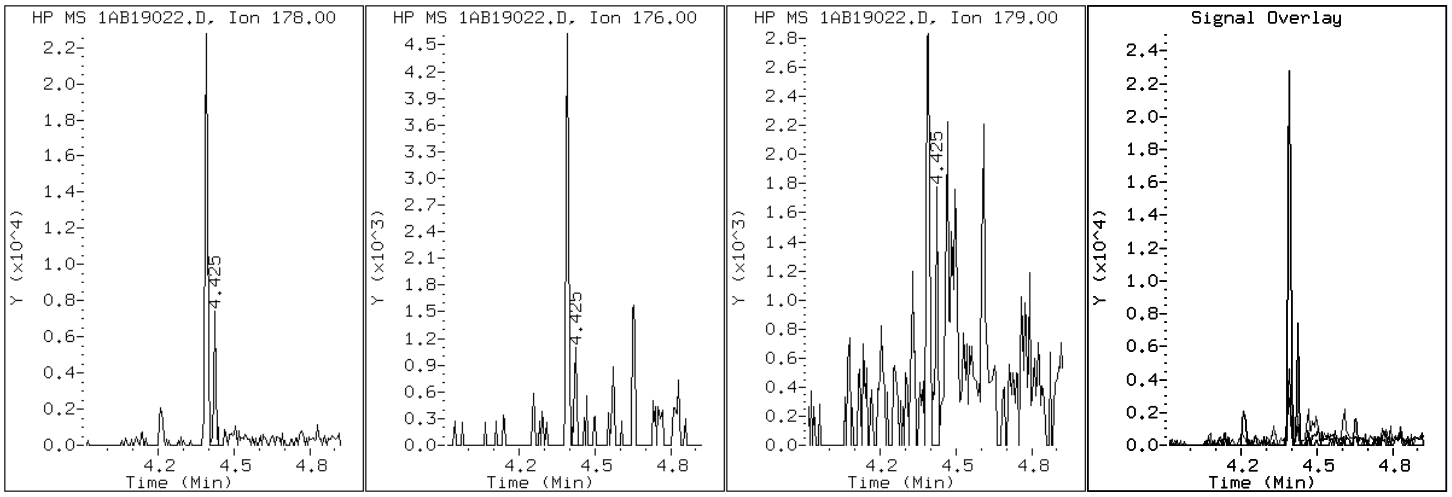
Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

Client ID: FM0153B-CS | Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a | Operator: SCC

12 Anthracene



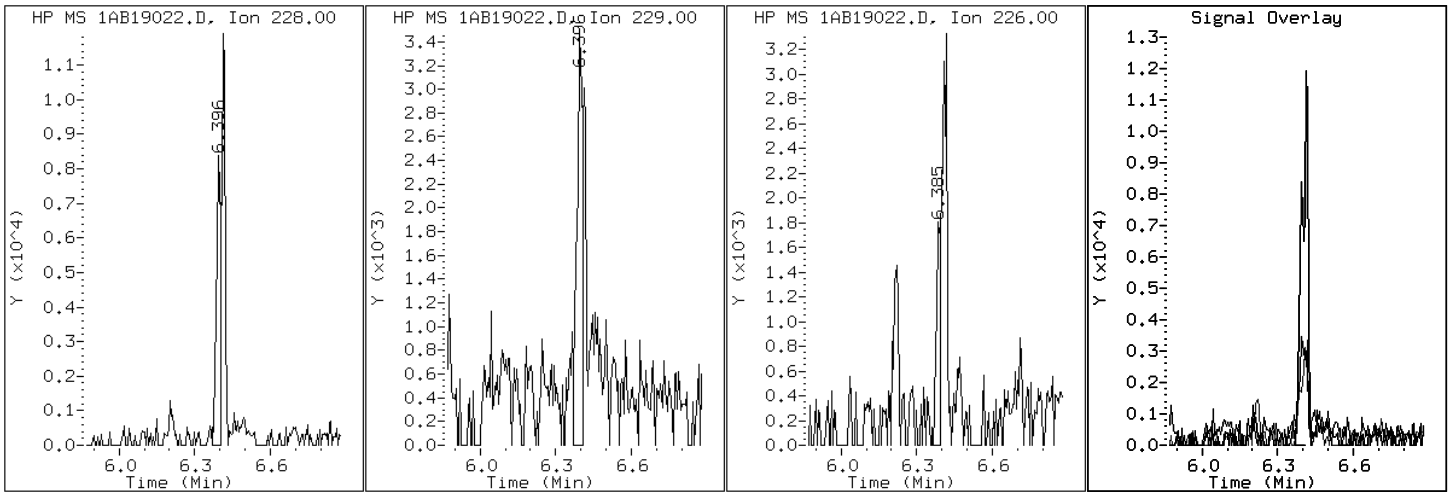
Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

Client ID: FM0153B-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a Operator: SCC

17 Benzo(a)anthracene



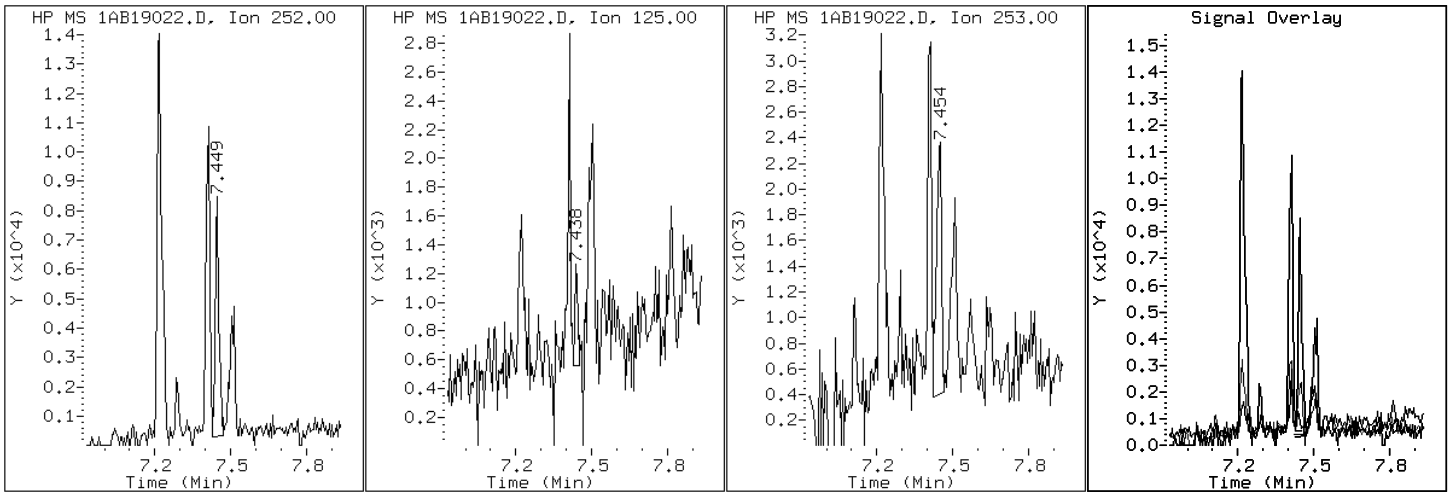
Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

Client ID: FM0153B-CS | Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a | Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

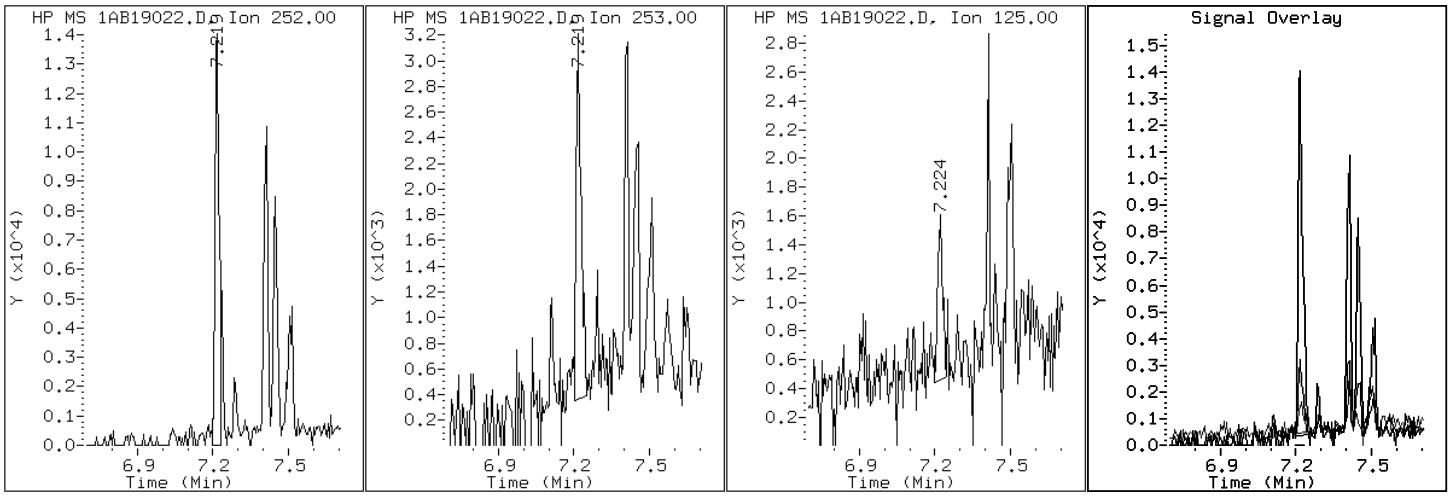
Client ID: FM0153B-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a

Operator: SCC

20 Benzo(b)fluoranthene



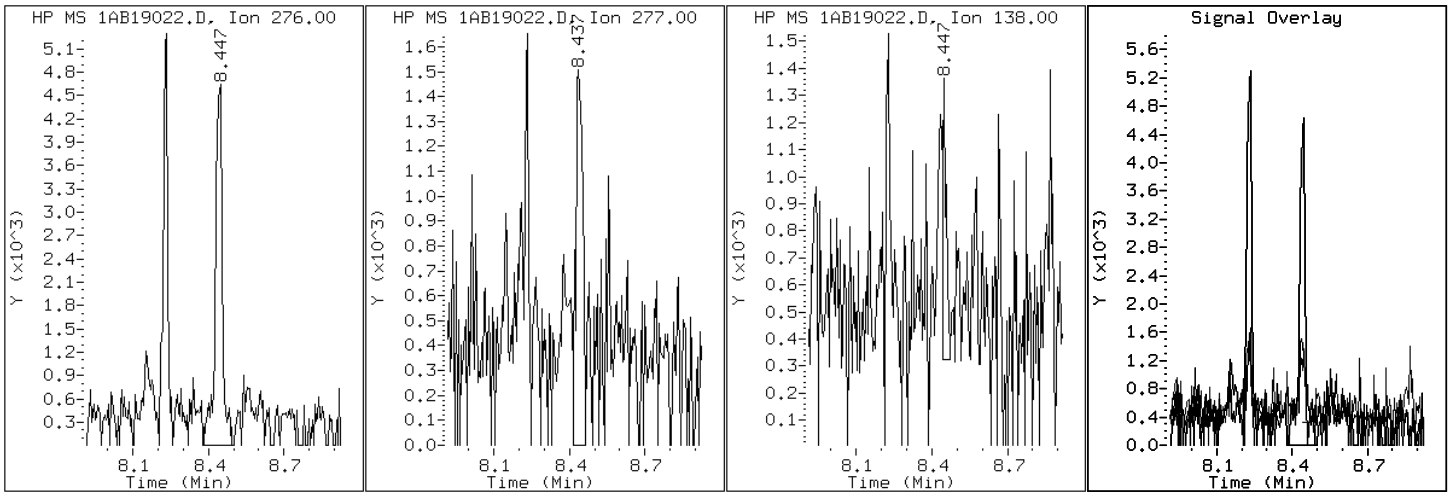
Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

Client ID: FM0153B-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a Operator: SCC

26 Benzo(g,h,i)perylene



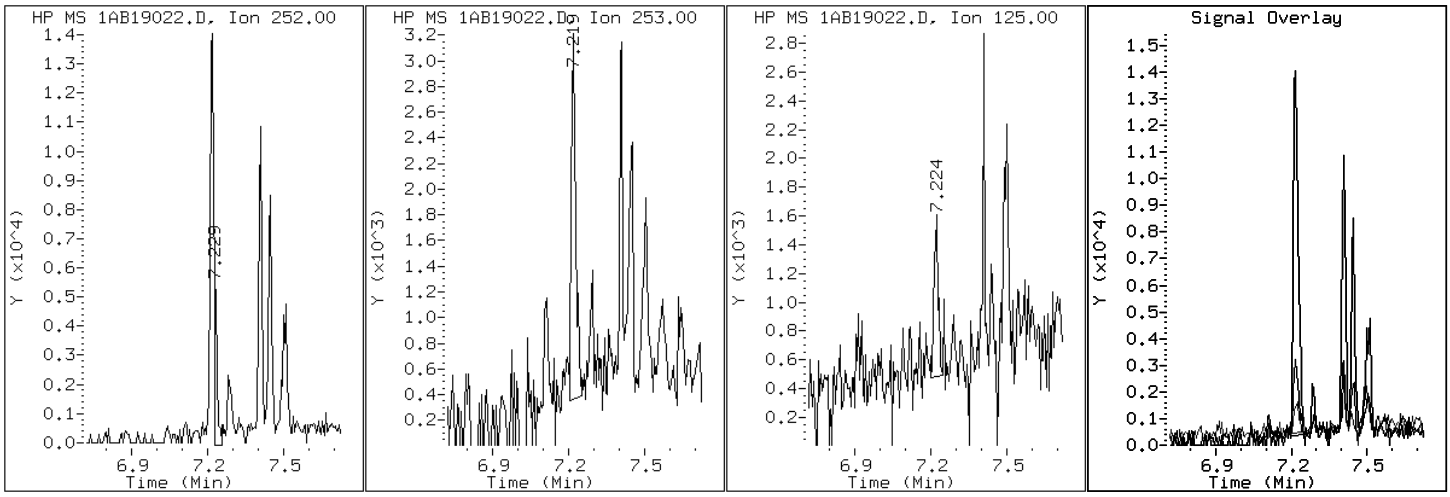
Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

Client ID: FM0153B-CS | Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a | Operator: SCC

21 Benzo(k)fluoranthene



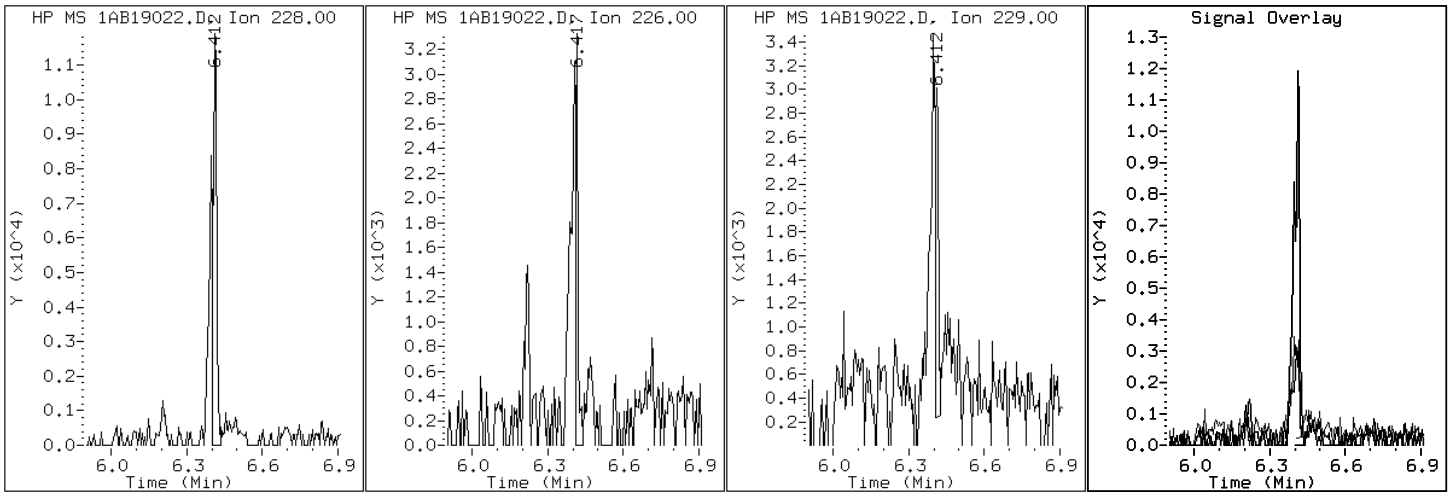
Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

Client ID: FM0153B-CS | Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a | Operator: SCC

19 Chrysene



Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

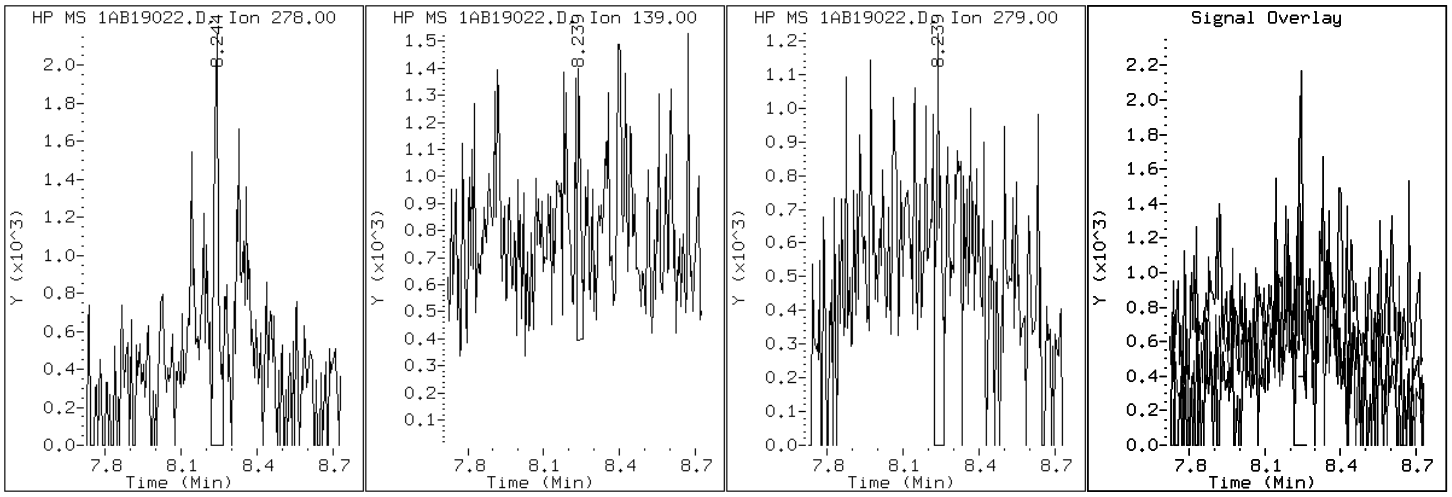
Client ID: FM0153B-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

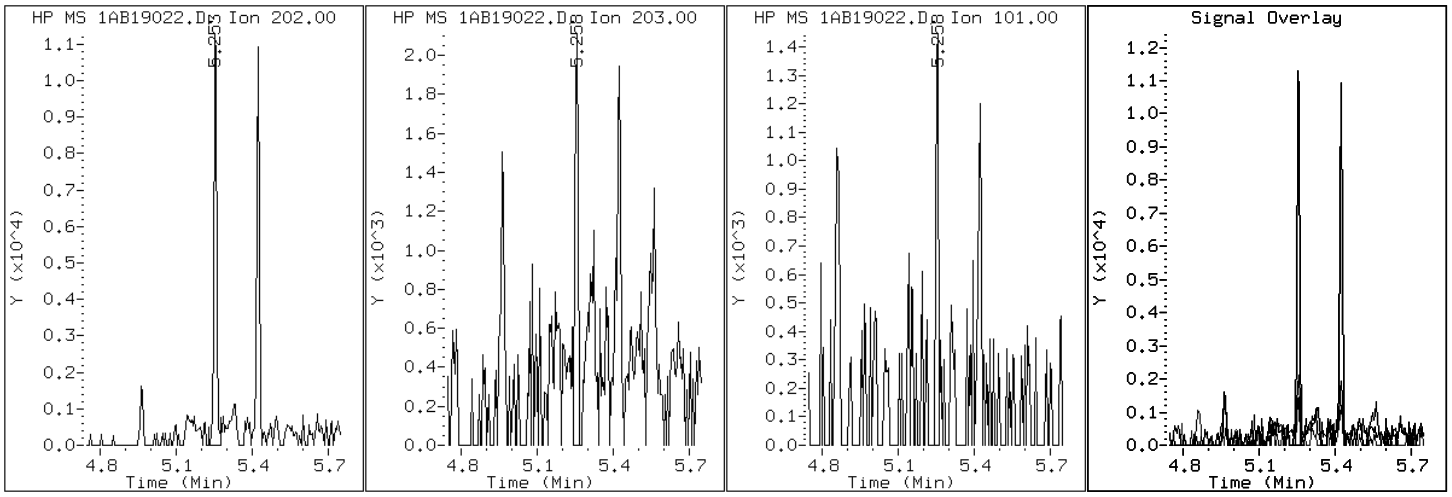
Client ID: FM0153B-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a

Operator: SCC

15 Fluoranthene



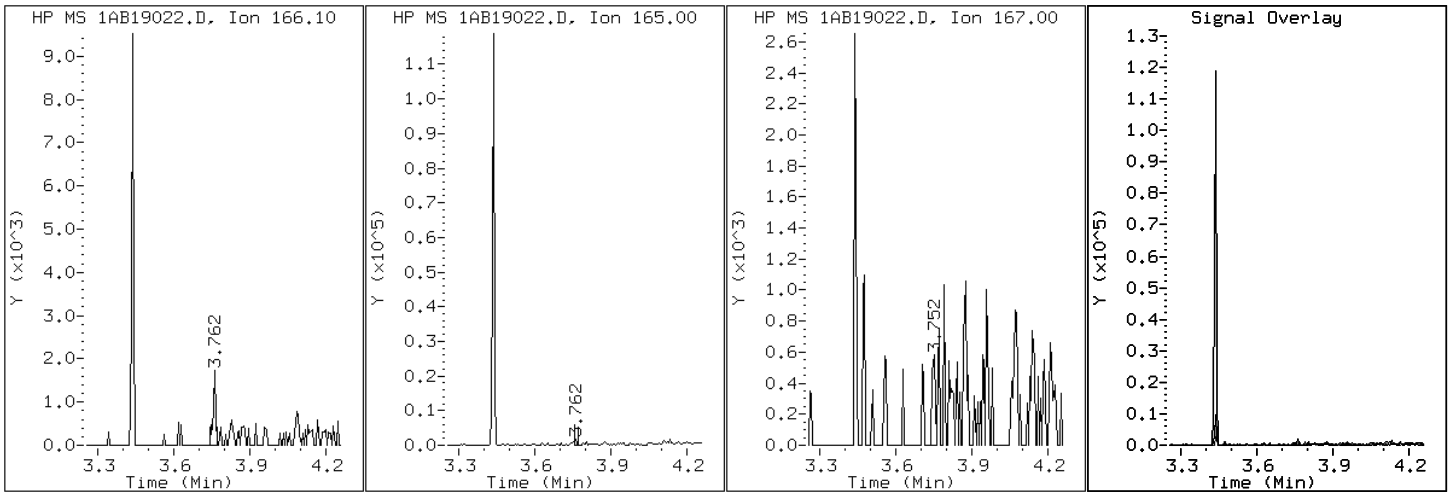
Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

Client ID: FM0153B-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a Operator: SCC

9 Fluorene



Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

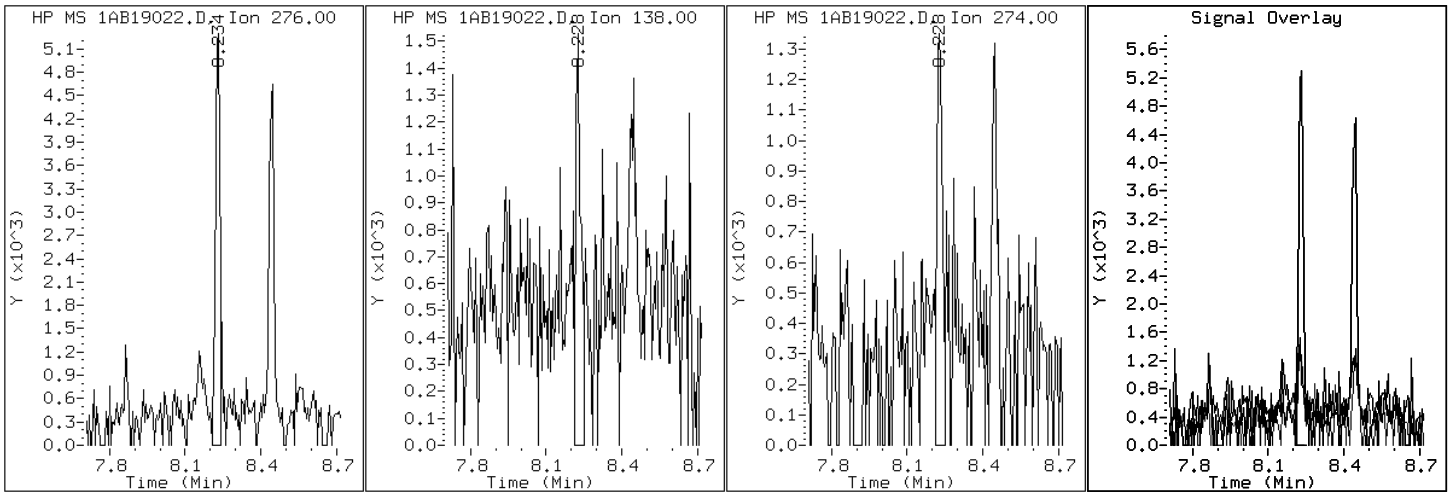
Client ID: FM0153B-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a

Operator: SCC

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



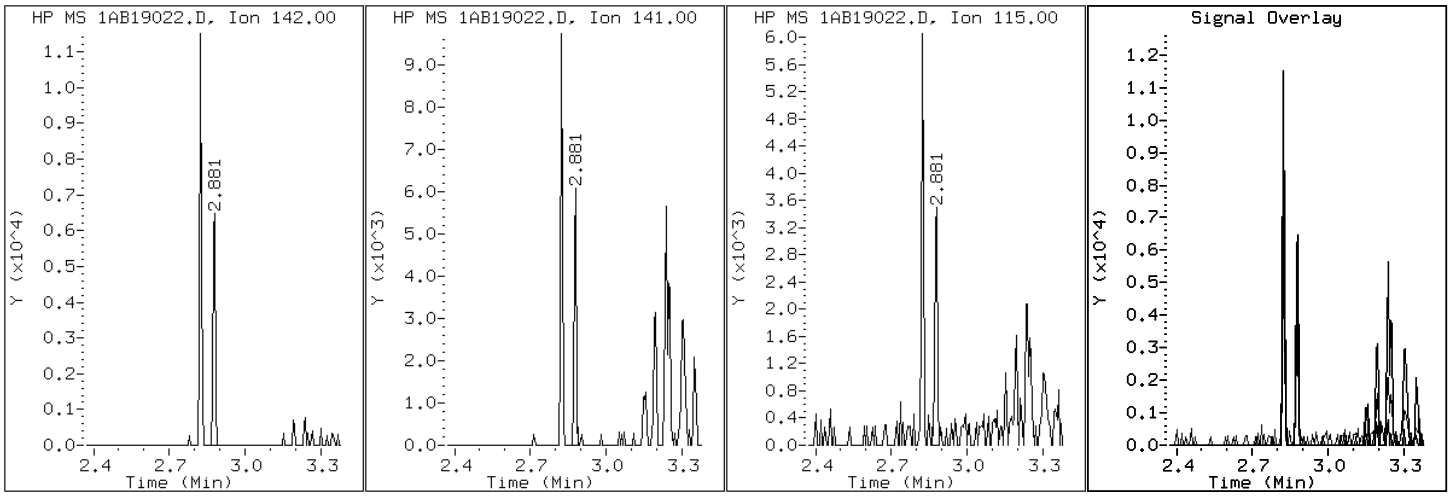
Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

Client ID: FM0153B-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a Operator: SCC

4 1-Methylnaphthalene



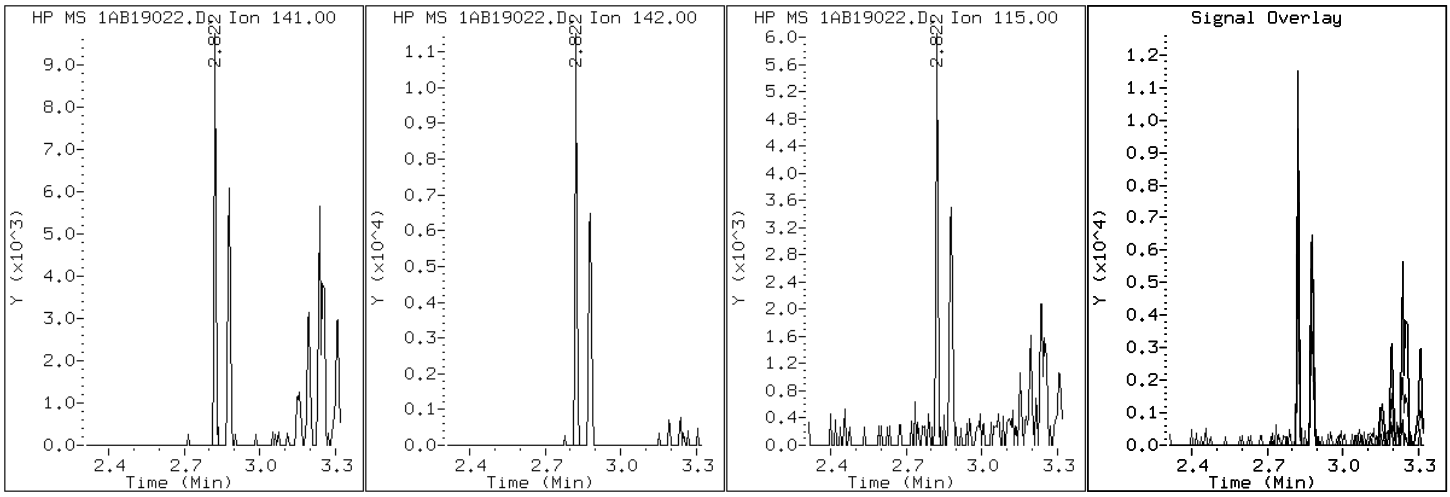
Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

Client ID: FM0153B-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

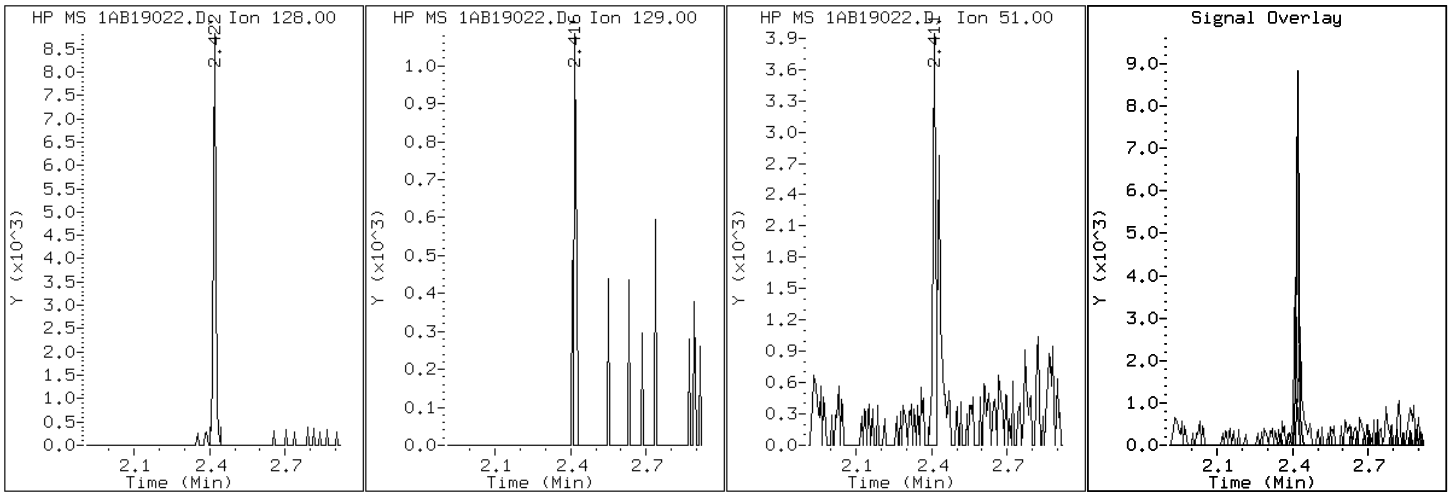
Client ID: FM0153B-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a

Operator: SCC

2 Naphthalene



Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

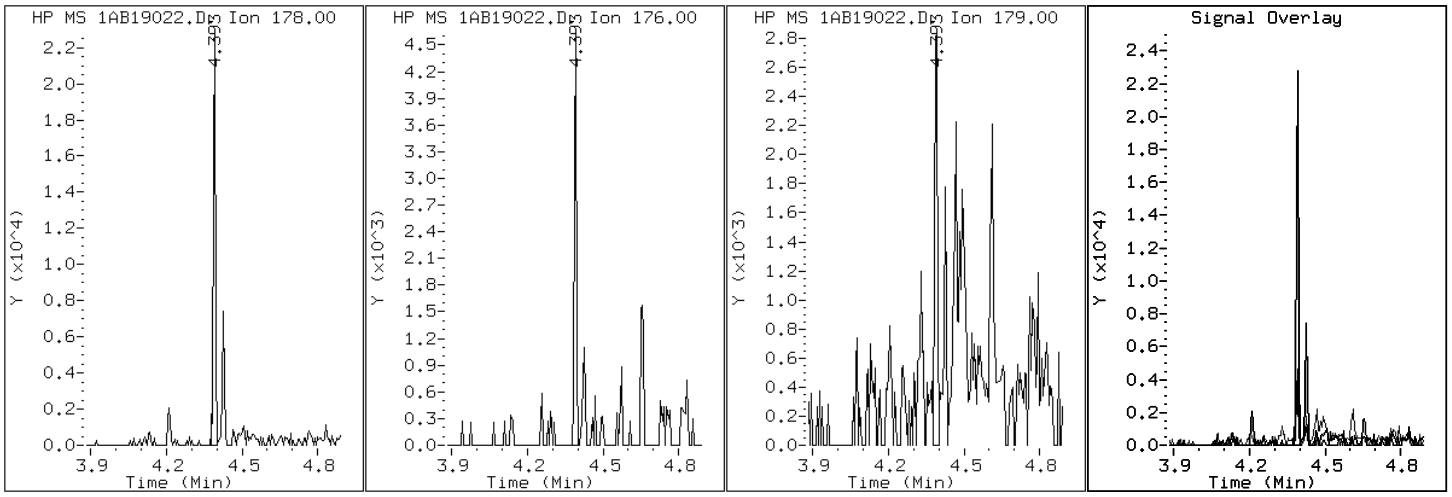
Client ID: FM0153B-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a

Operator: SCC

11 Phenanthrene



Data File: 1AB19022.D

Date: 19-FEB-2013 17:13

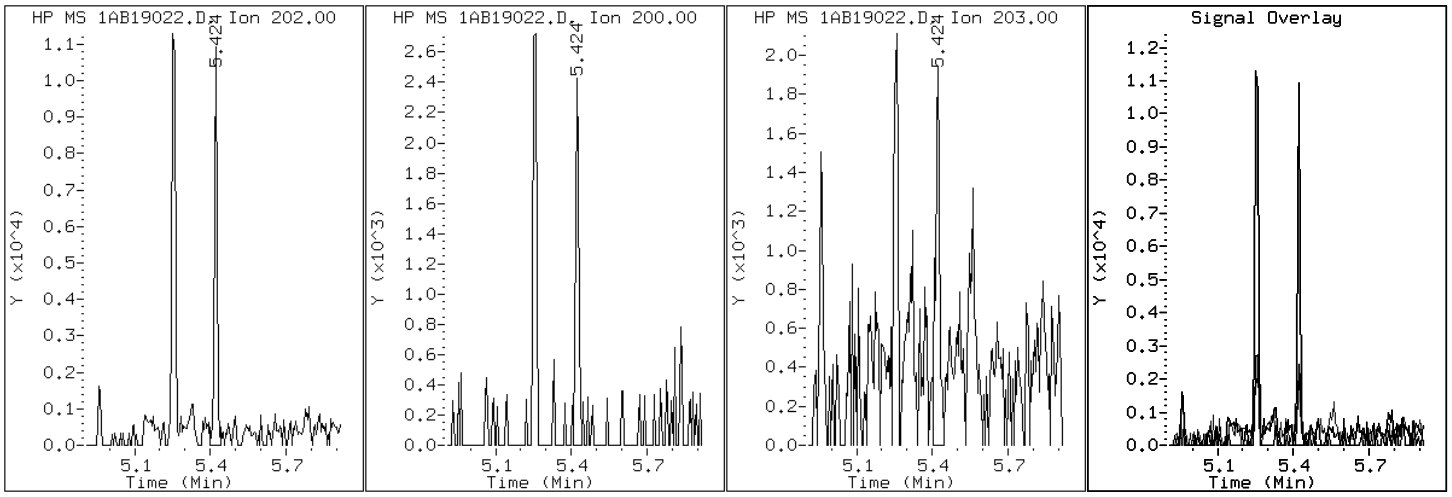
Client ID: FM0153B-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-6-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB19022.D
Inj. Date and Time: 19-FEB-2013 17:13
Instrument ID: BSMA5973.i
Client ID: FM0153B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

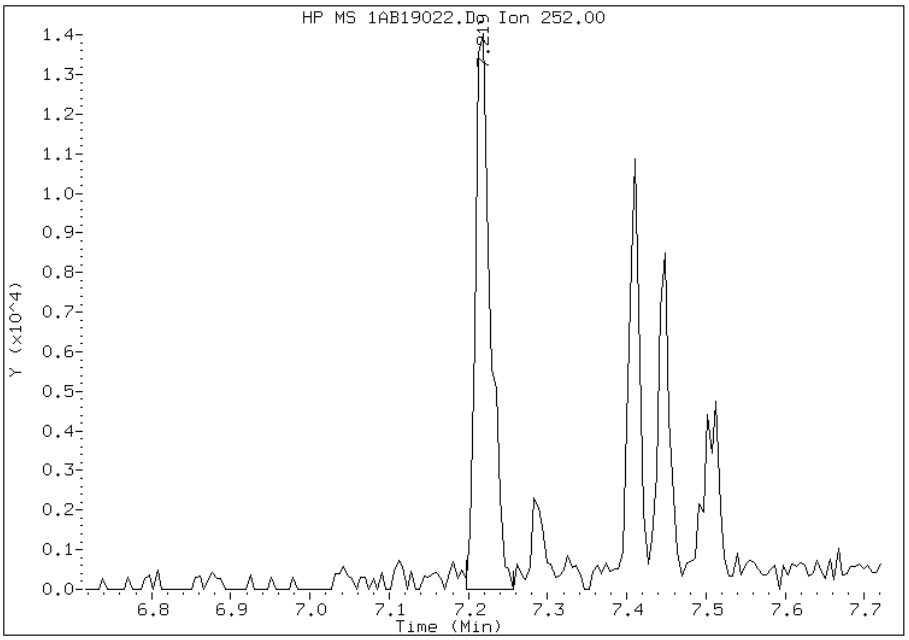
Processing Integration Results

RT: 7.22

Response: 18671

Amount: 1

Conc: 292



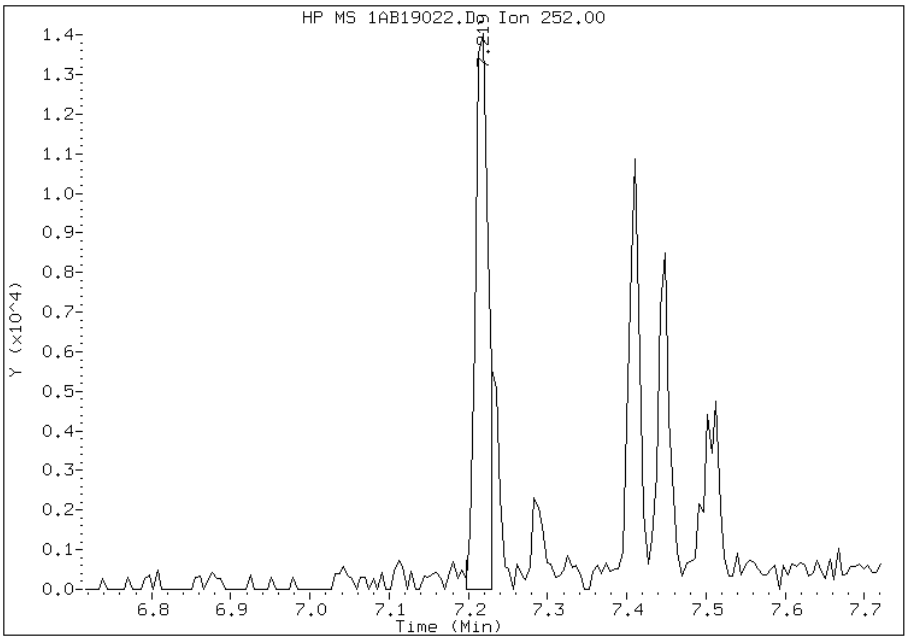
Manual Integration Results

RT: 7.22

Response: 15949

Amount: 1

Conc: 249



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19022.D
Inj. Date and Time: 19-FEB-2013 17:13
Instrument ID: BSMA5973.i
Client ID: FM0153B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/20/2013

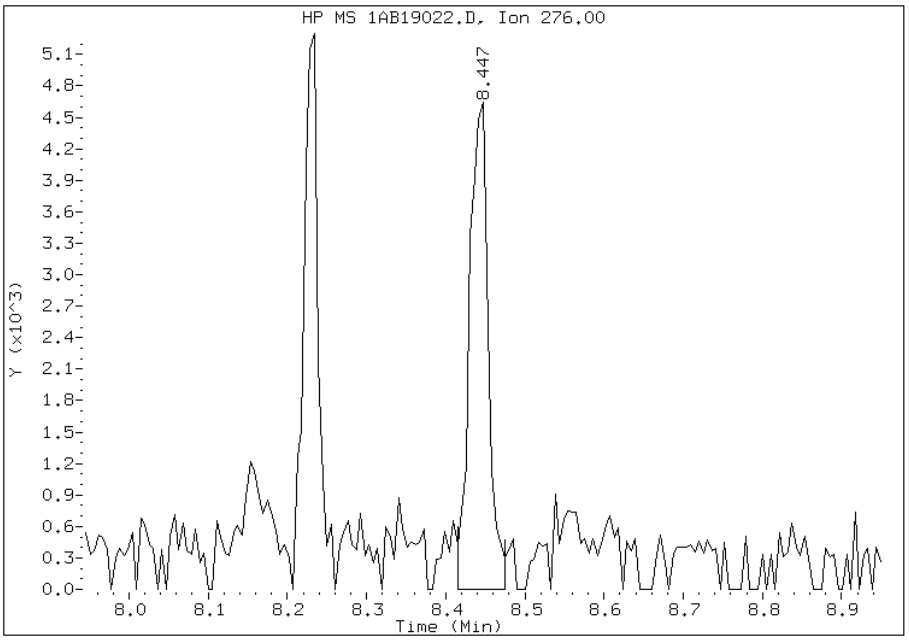
Processing Integration Results

RT: 8.45

Response: 7614

Amount: 0

Conc: 153



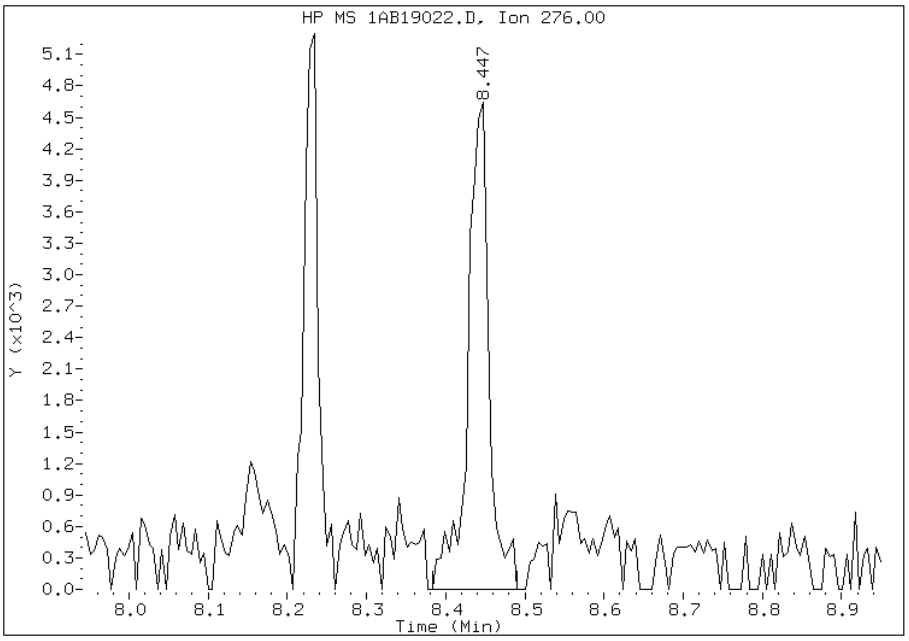
Manual Integration Results

RT: 8.45

Response: 8547

Amount: 1

Conc: 172



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19022.D
Inj. Date and Time: 19-FEB-2013 17:13
Instrument ID: BSMA5973.i
Client ID: FM0153B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

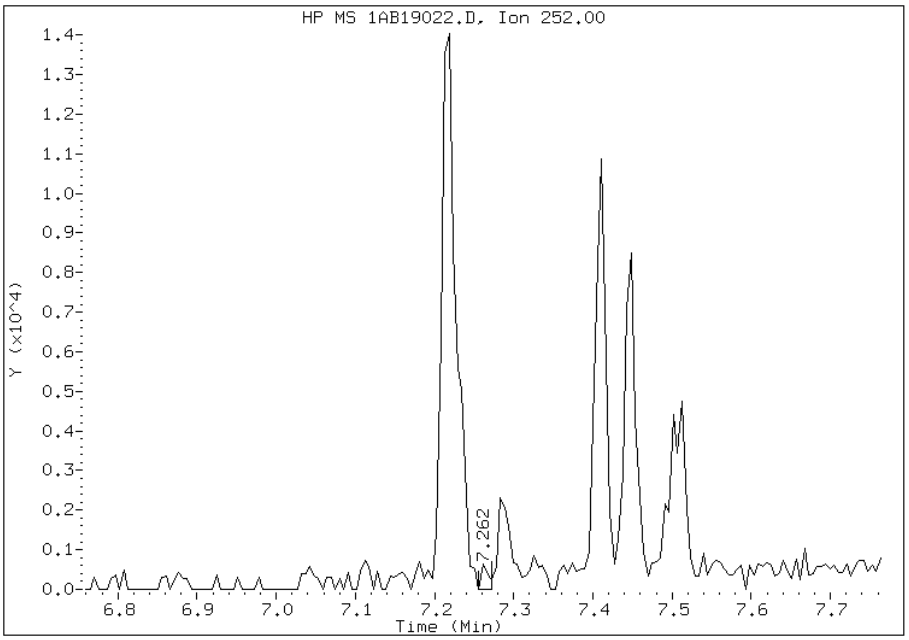
Processing Integration Results

RT: 7.26

Response: 402

Amount: 0

Conc: 6



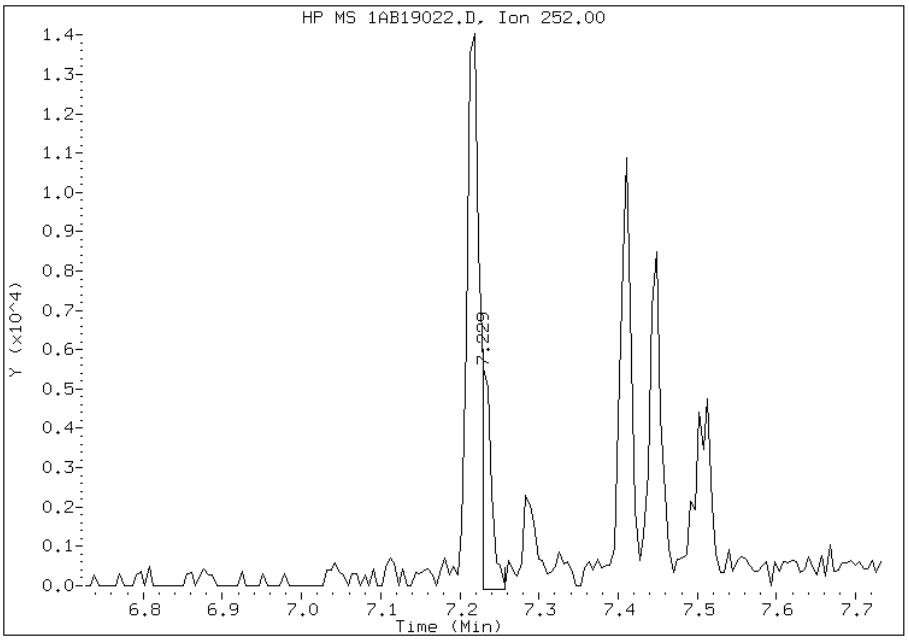
Manual Integration Results

RT: 7.23

Response: 4687

Amount: 0

Conc: 70



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19022.D
Inj. Date and Time: 19-FEB-2013 17:13
Instrument ID: BSMA5973.i
Client ID: FM0153B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

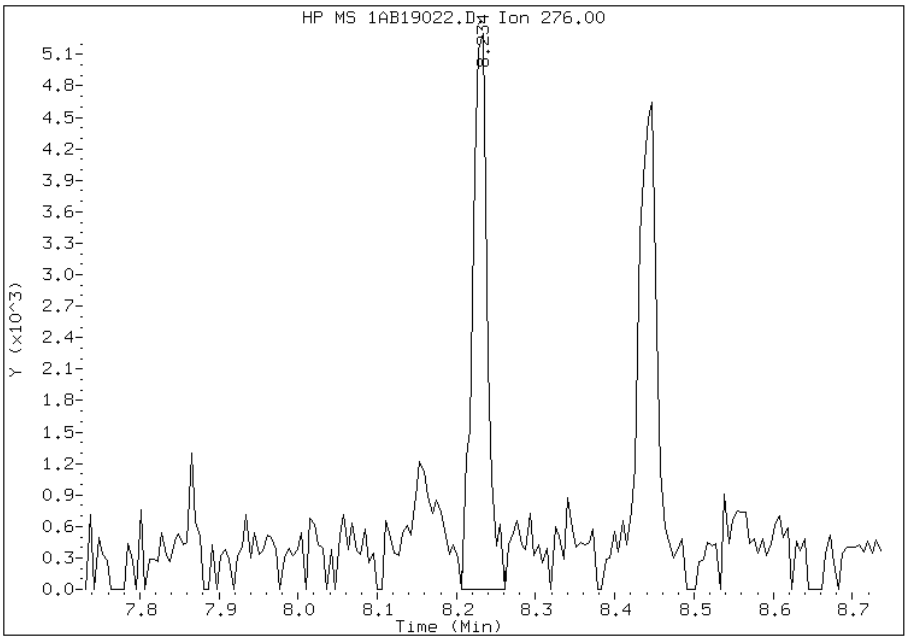
Processing Integration Results

RT: 8.23

Response: 6887

Amount: 0

Conc: 144



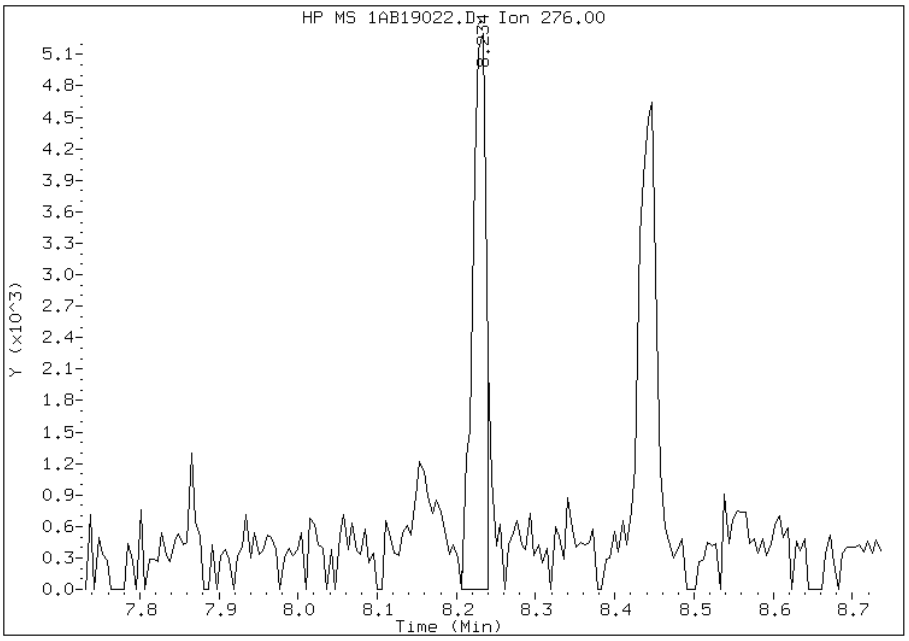
Manual Integration Results

RT: 8.23

Response: 6220

Amount: 0

Conc: 130



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748W-CS | Lab Sample ID: 680-87320-7

Matrix: Solid | Lab File ID: 1AB19023.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 08:51

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 15.07(g) | Date Analyzed: 02/19/2013 17:28

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

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

% Moisture: 25.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	81	J	210	27
120-12-7	Anthracene	98		45	23
56-55-3	Benzo[a]anthracene	350		43	21
50-32-8	Benzo[a]pyrene	230		56	28
205-99-2	Benzo[b]fluoranthene	350		65	33
191-24-2	Benzo[g,h,i]perylene	280		110	24
207-08-9	Benzo[k]fluoranthene	160		43	19
218-01-9	Chrysene	430		48	24
53-70-3	Dibenz(a,h)anthracene	84	J	110	22
206-44-0	Fluoranthene	430		110	21
86-73-7	Fluorene	27	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	220		110	38
90-12-0	1-Methylnaphthalene	170	J	210	24
91-57-6	2-Methylnaphthalene	170	J	210	38
91-20-3	Naphthalene	130	J	210	24
85-01-8	Phenanthrene	350		43	21
129-00-0	Pyrene	340		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\1AB19023.D
Lab Smp Id: 680-87320-A-7-A Client Smp ID: CV0748W-CS
Inj Date : 19-FEB-2013 17:28
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-7-a
Misc Info : 680-87320-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 23
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	25.740	% 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	2.413	2.405	(1.000)	711729	40.0000	
* 6 Acenaphthene-d10	164	3.438	3.431	(1.000)	497677	40.0000	
* 10 Phenanthrene-d10	188	4.379	4.371	(1.000)	728091	40.0000	
$ 14 o-Terphenyl	230	4.656	4.649	(1.063)	21945	2.07428	741.4177
* 18 Chrysene-d12	240	6.403	6.390	(1.000)	606689	40.0000	
* 23 Perylene-d12	264	7.504	7.480	(1.000)	774609	40.0000	
2 Naphthalene	128	2.418	2.416	(1.002)	6220	0.36005	128.6941
3 2-Methylnaphthalene	141	2.824	2.816	(1.170)	4291	0.46365	165.7251
4 1-Methylnaphthalene	142	2.877	2.875	(1.193)	4850	0.46295	165.4730
5 Acenaphthylene	152	3.353	3.345	(0.975)	5009	0.22794	81.4735
9 Fluorene	166	3.764	3.757	(1.095)	1129	0.07549	26.9829
11 Phenanthrene	178	4.389	4.387	(1.002)	19566	0.98421	351.7875
12 Anthracene	178	4.427	4.419	(1.011)	5544	0.27352	97.7662
13 Carbazole	167	4.582	4.574	(1.046)	3158	0.18176	64.9682

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.255	5.247	(1.200)	23516	1.19311	426.4577
16 Pyrene	202	5.426	5.413	(0.847)	20890	0.95342	340.7843
17 Benzo(a)anthracene	228	6.398	6.374	(0.999)	17845	0.98510	352.1072
19 Chrysene	228	6.414	6.406	(1.002)	21343	1.20876	432.0491
20 Benzo(b)fluoranthene	252	7.221	7.202	(0.962)	21460	0.99262	354.7956(M)
21 Benzo(k)fluoranthene	252	7.226	7.224	(0.963)	9910	0.43842	156.7055(MH)
22 Benzo(a)pyrene	252	7.445	7.432	(0.992)	12969	0.63170	225.7915
24 Indeno(1,2,3-cd)pyrene	276	8.236	8.212	(1.098)	10153	0.62629	223.8579(M)
25 Dibenzo(a,h)anthracene	278	8.241	8.228	(1.098)	3811	0.23515	84.0510
26 Benzo(g,h,i)perylene	276	8.444	8.420	(1.125)	13181	0.78483	280.5226

QC Flag Legend

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

Data File: 1AB19023.D

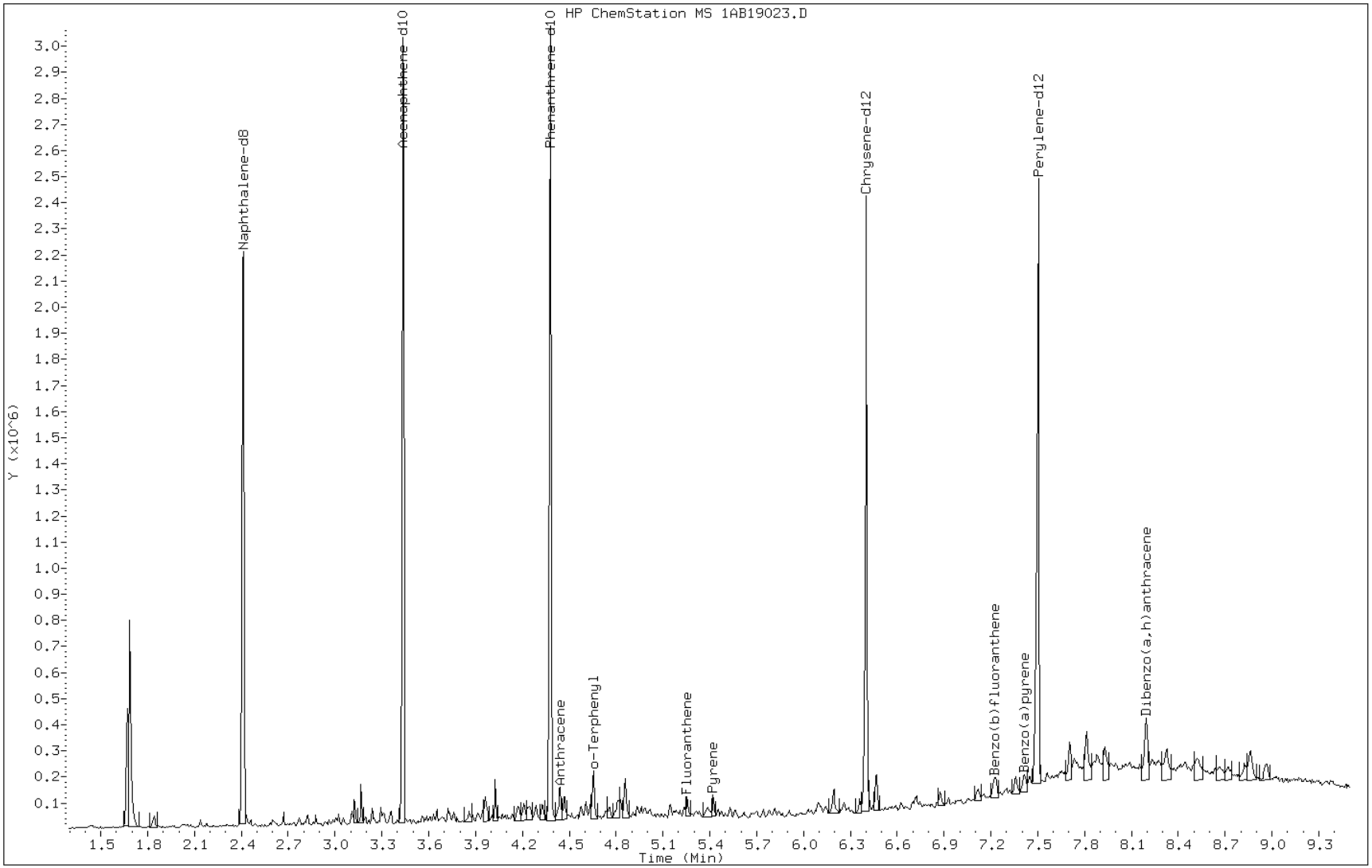
Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a

Operator: SCC



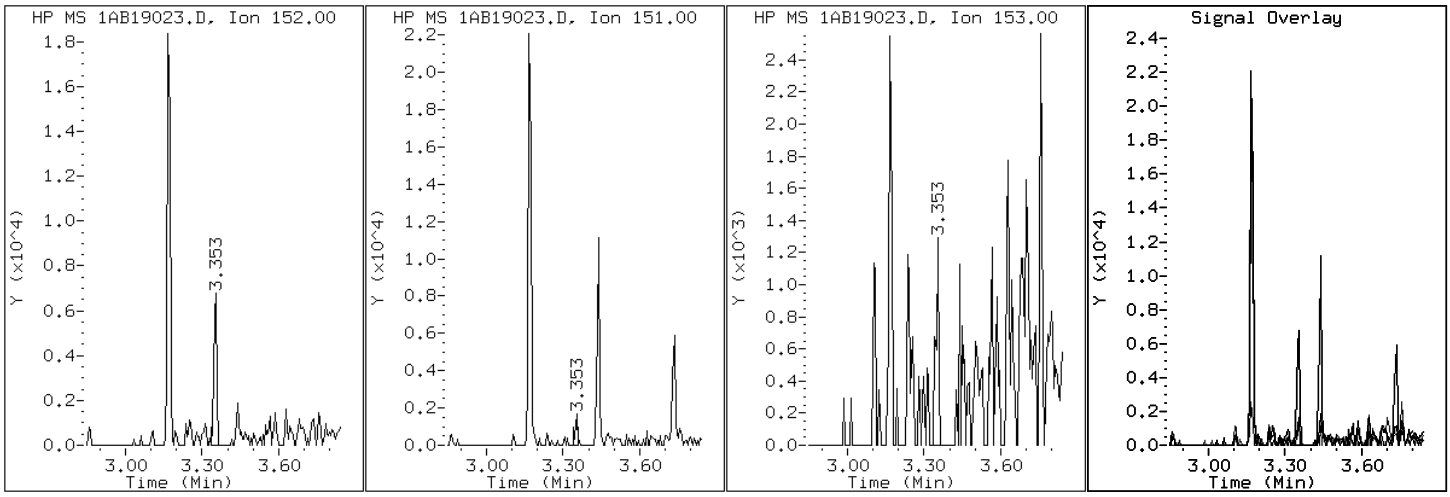
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

5 Acenaphthylene



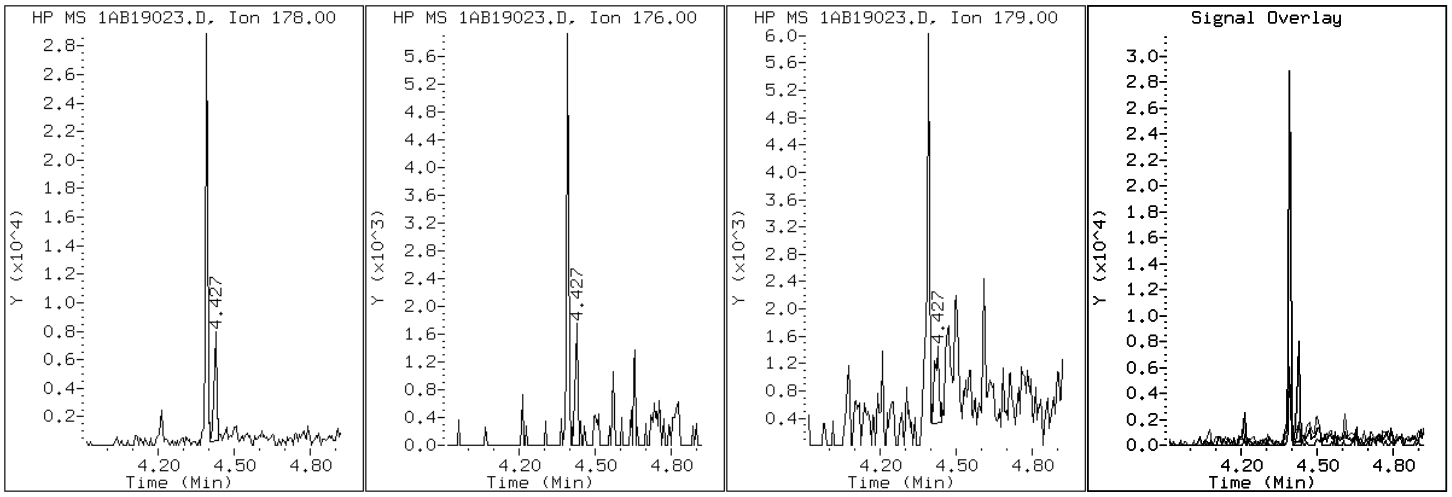
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

12 Anthracene



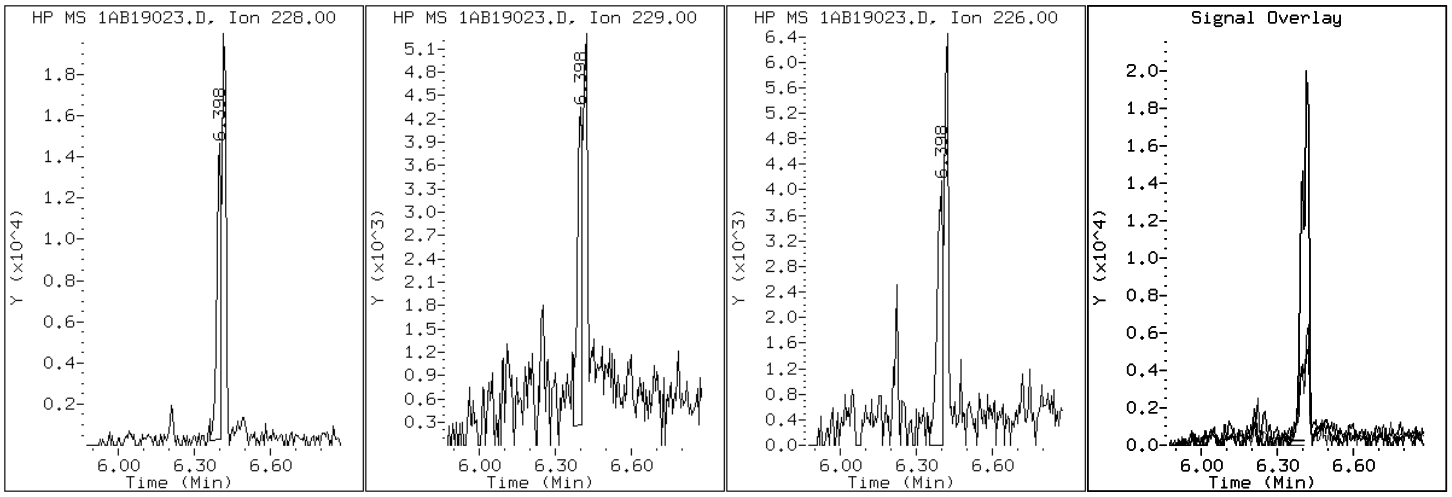
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

17 Benzo(a)anthracene



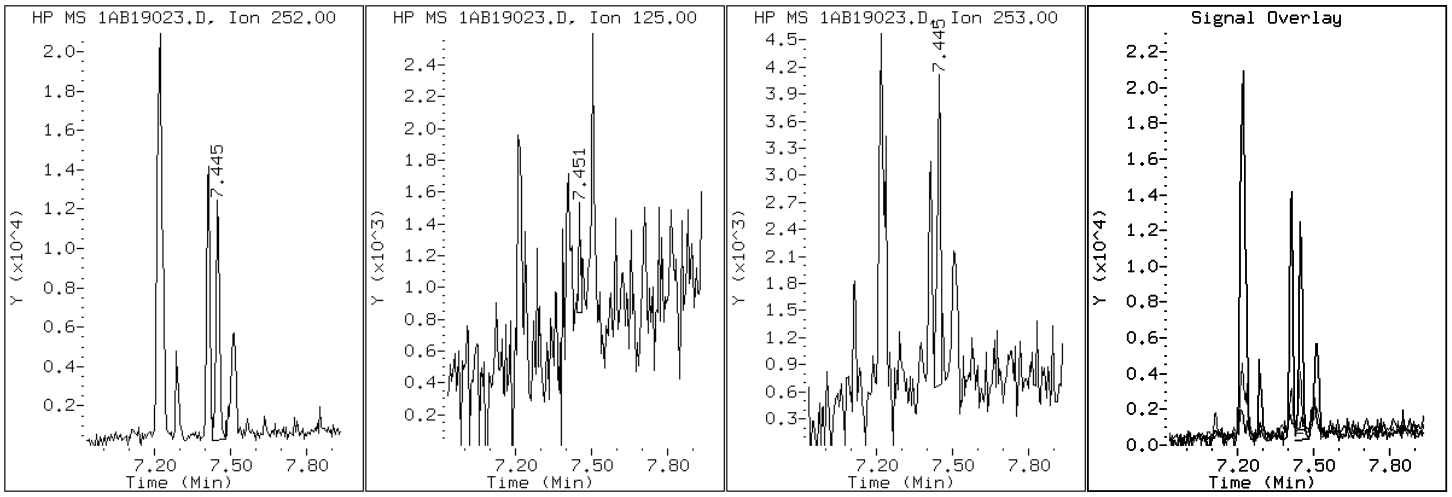
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

22 Benzo(a)pyrene



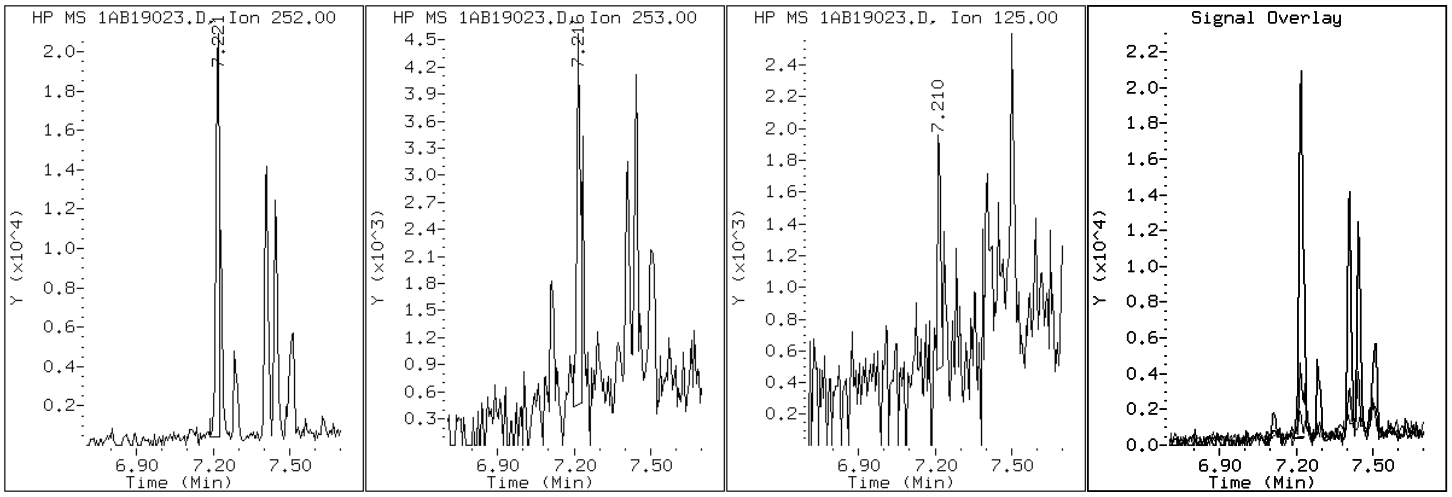
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



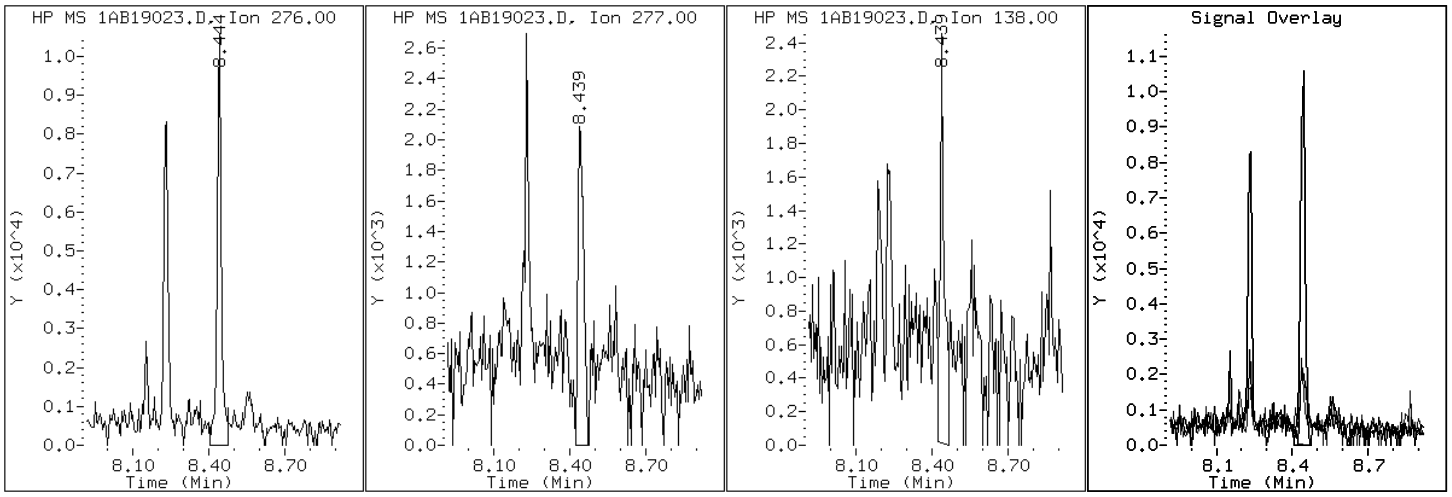
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



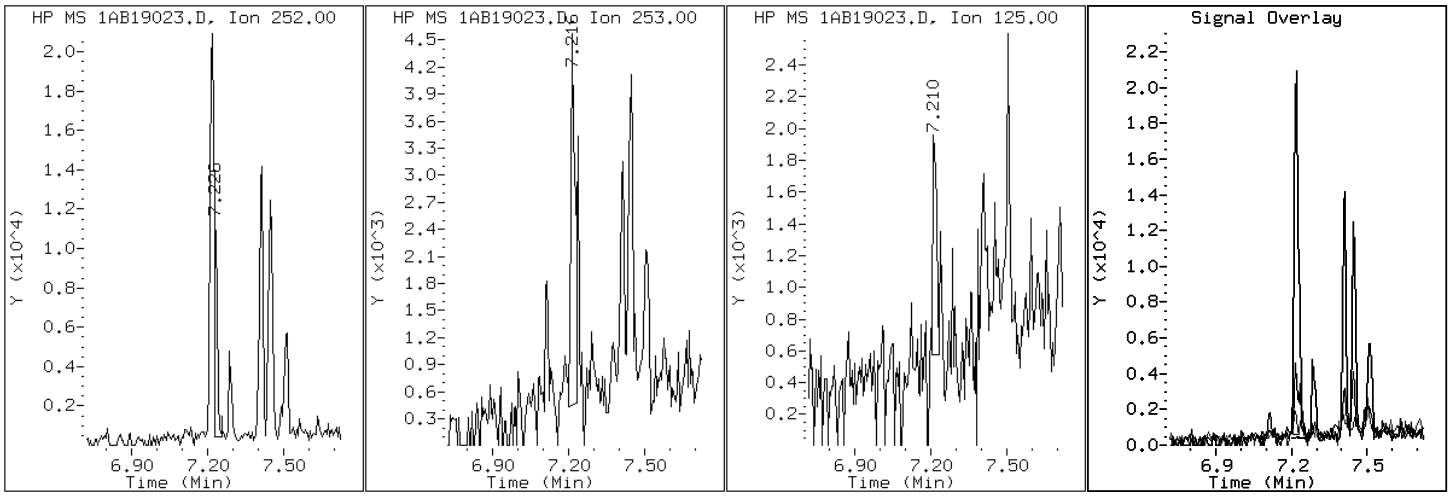
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

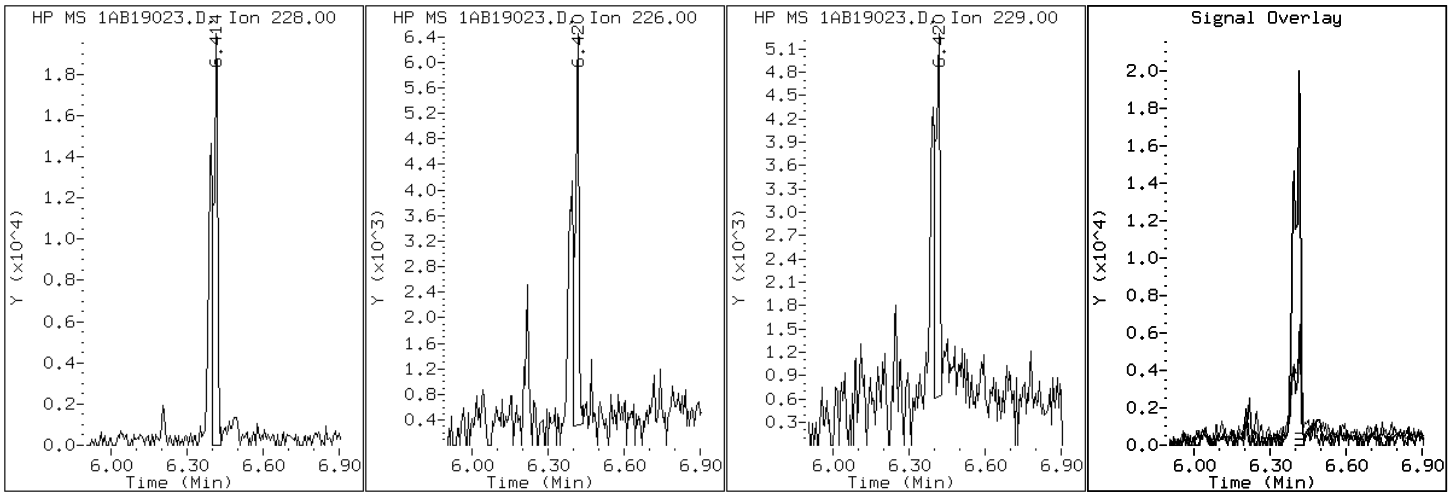
Client ID: CV0748W-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a

Operator: SCC

19 Chrysene



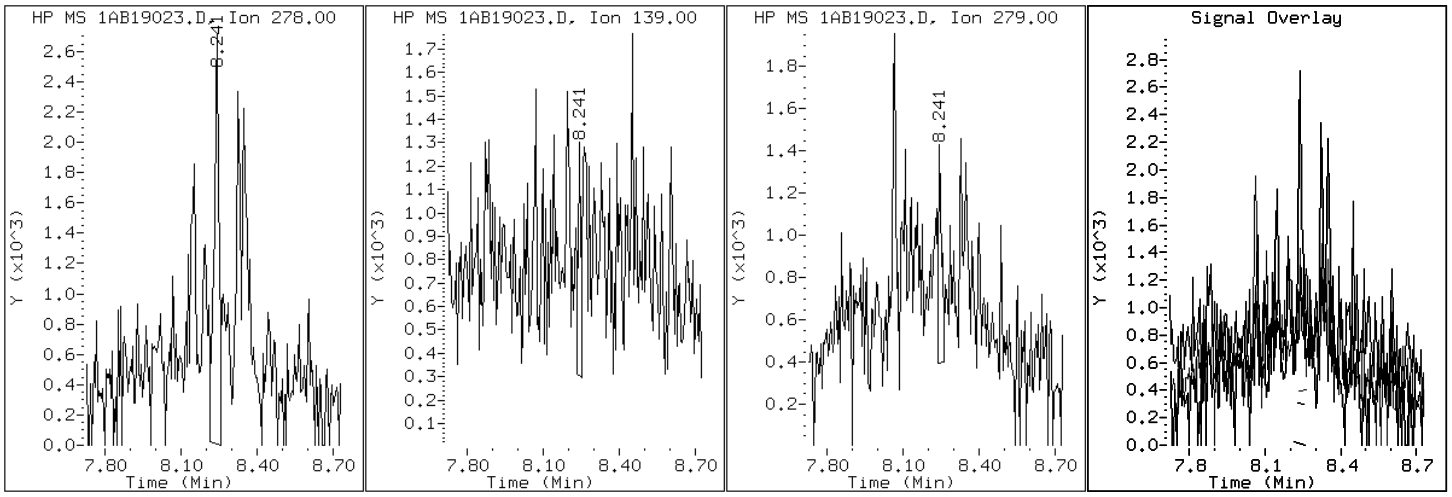
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

25 Dibenzo(a,h)anthracene



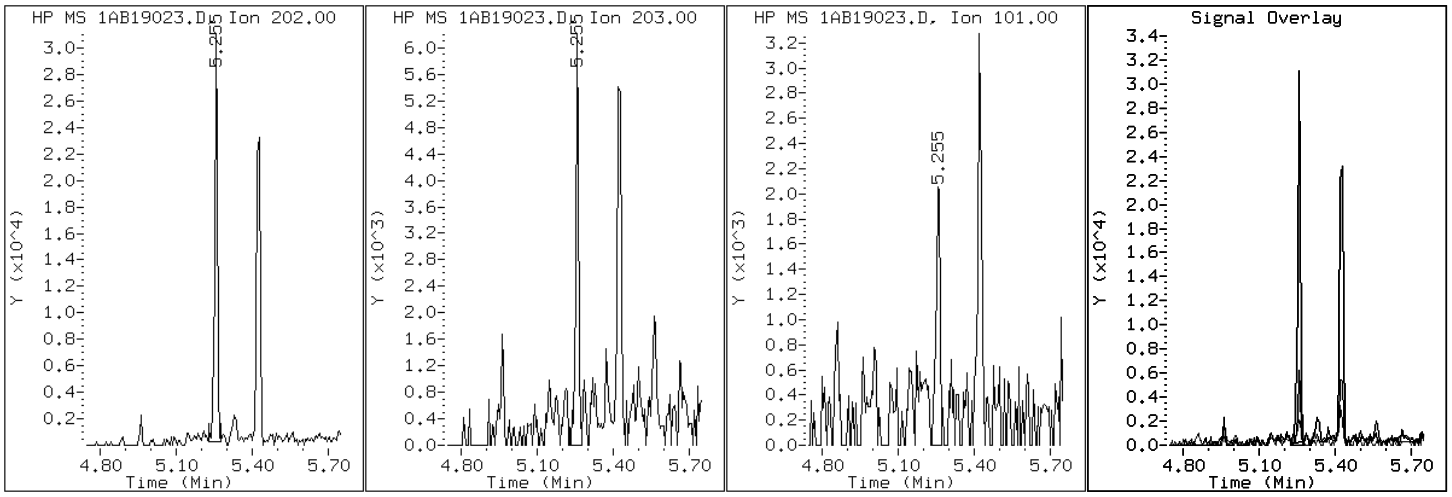
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

15 Fluoranthene



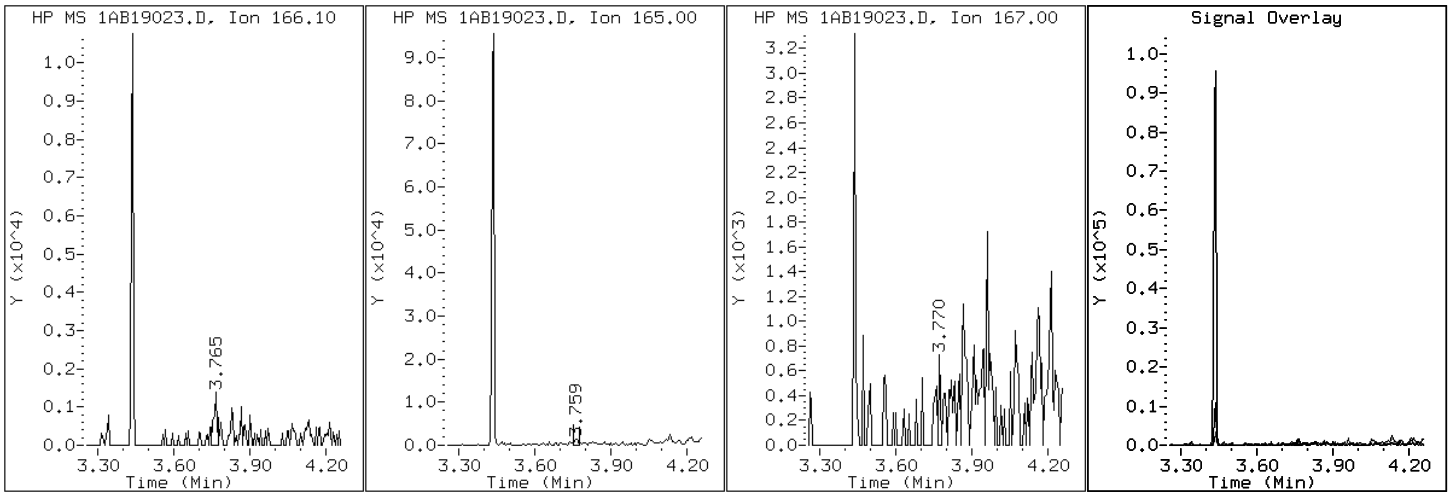
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

9 Fluorene



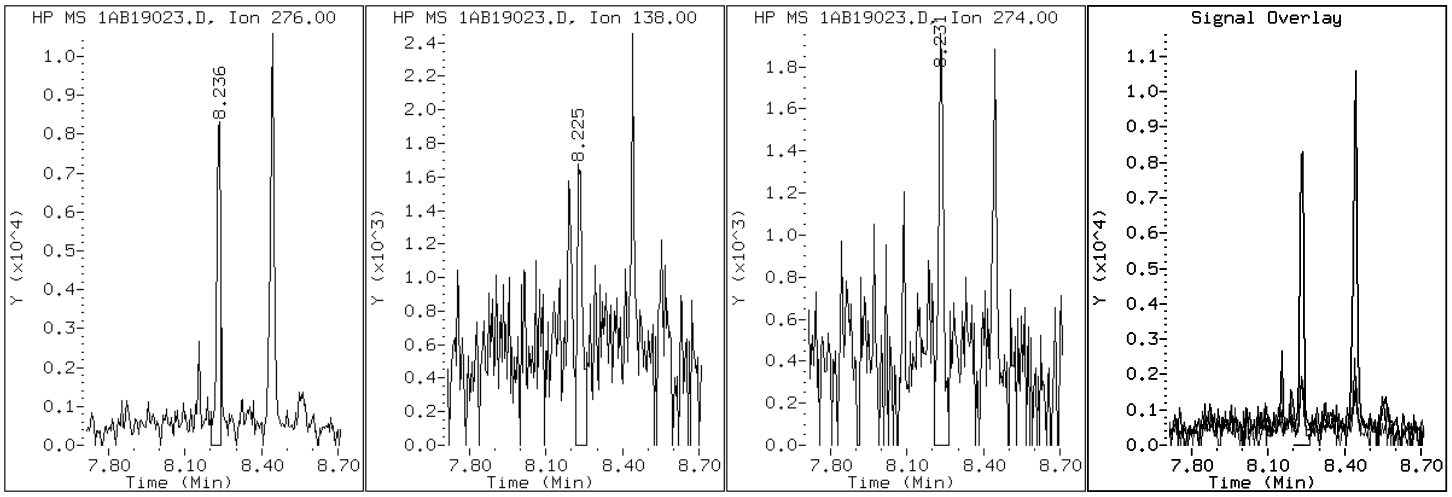
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

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



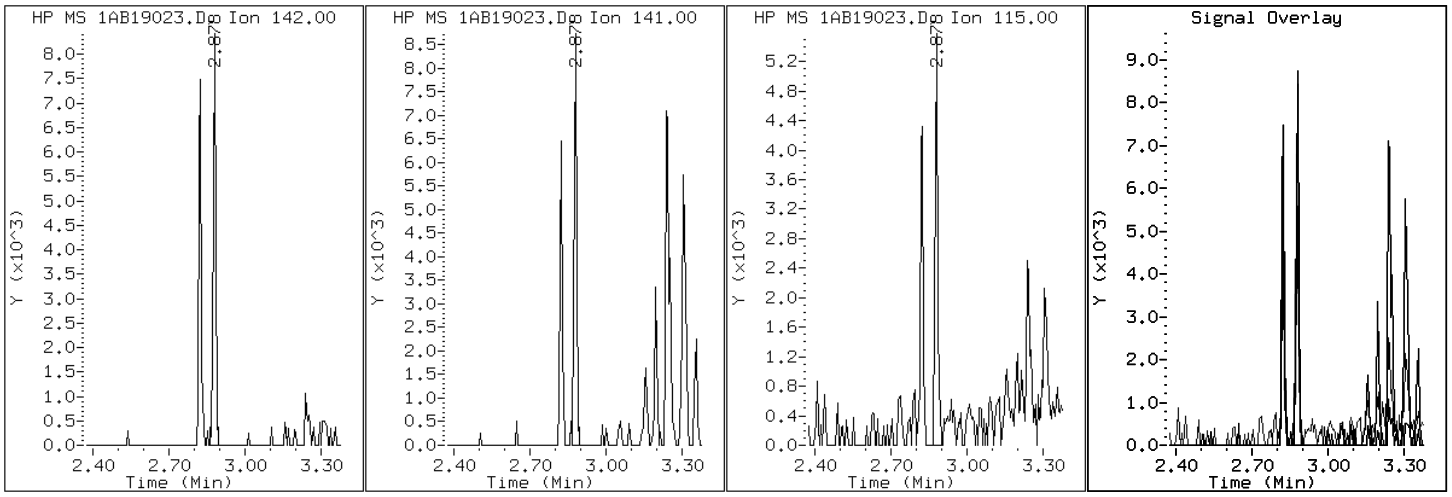
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

4 1-Methylnaphthalene



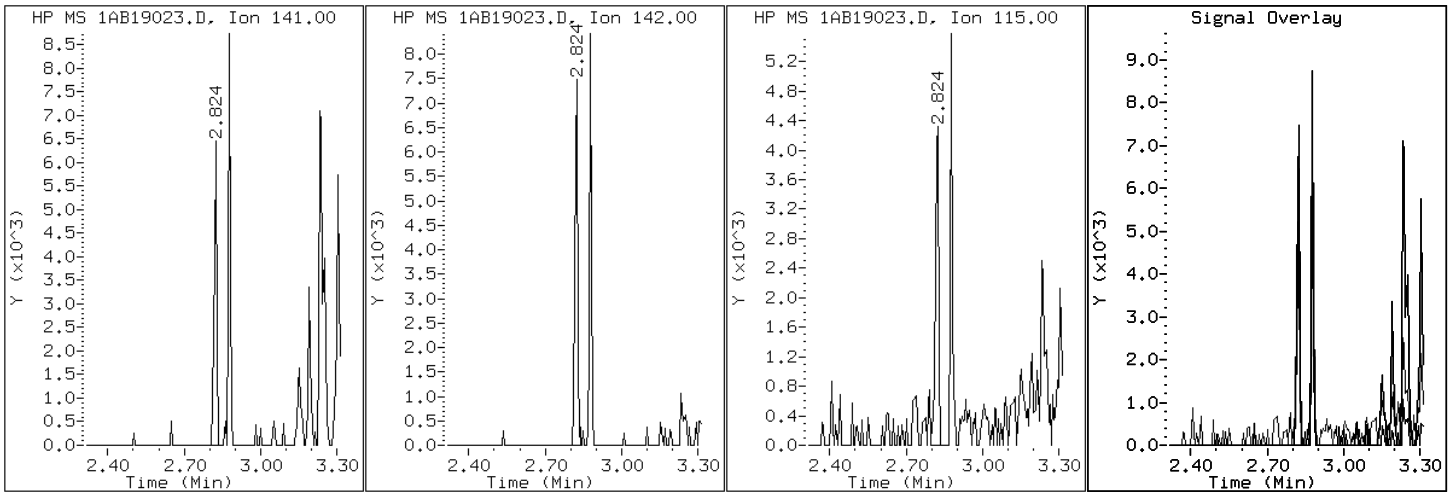
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

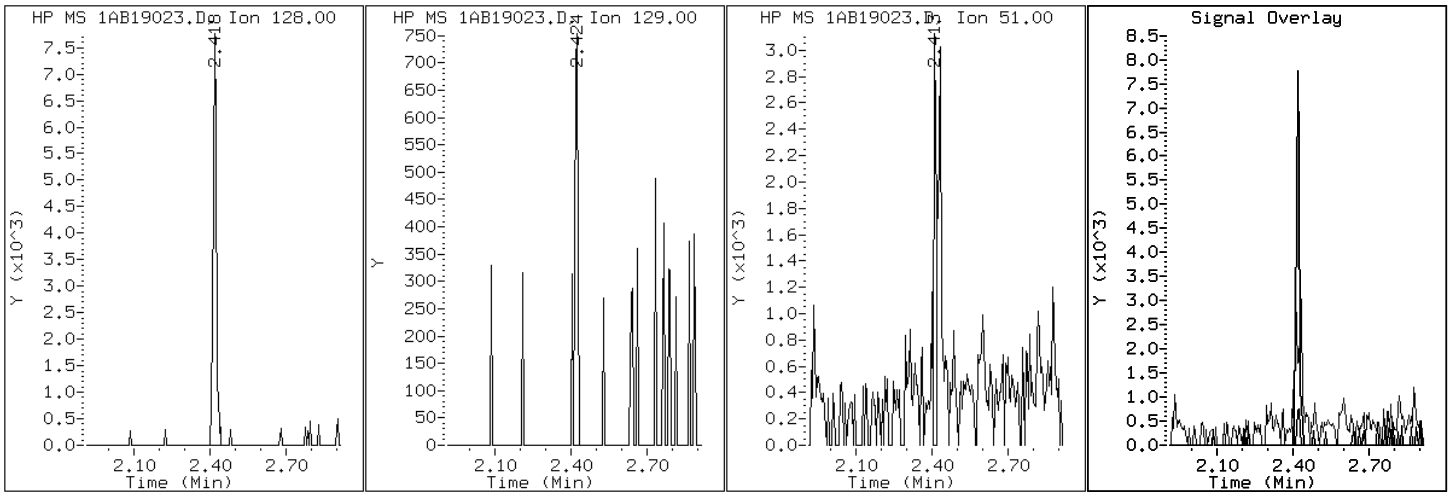
Client ID: CV0748W-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a

Operator: SCC

2 Naphthalene



Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

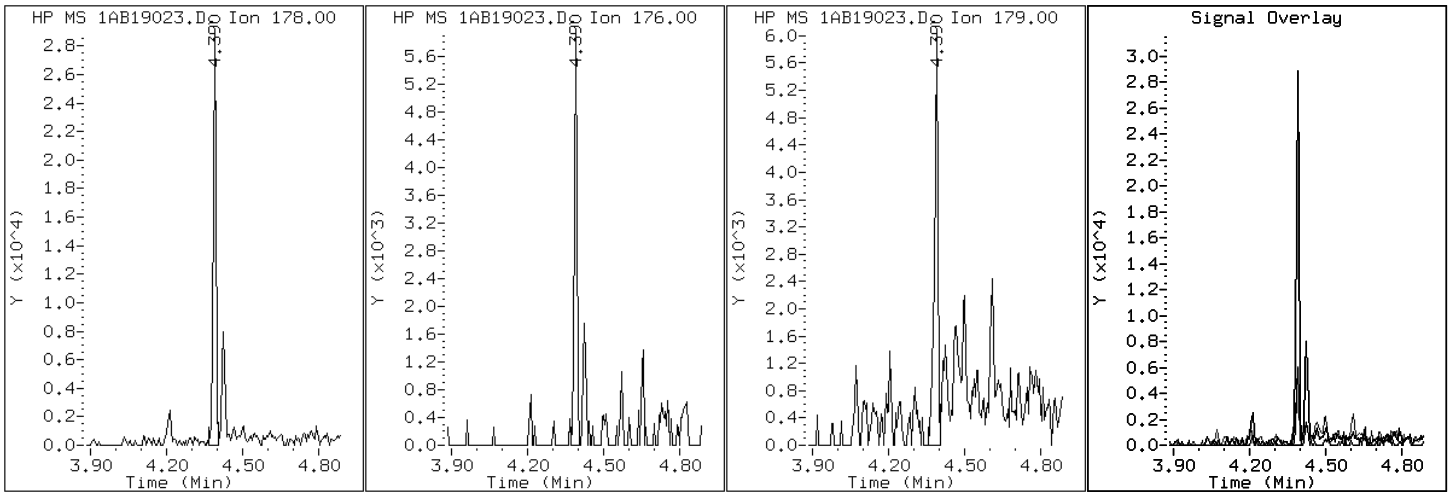
Client ID: CV0748W-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a

Operator: SCC

11 Phenanthrene



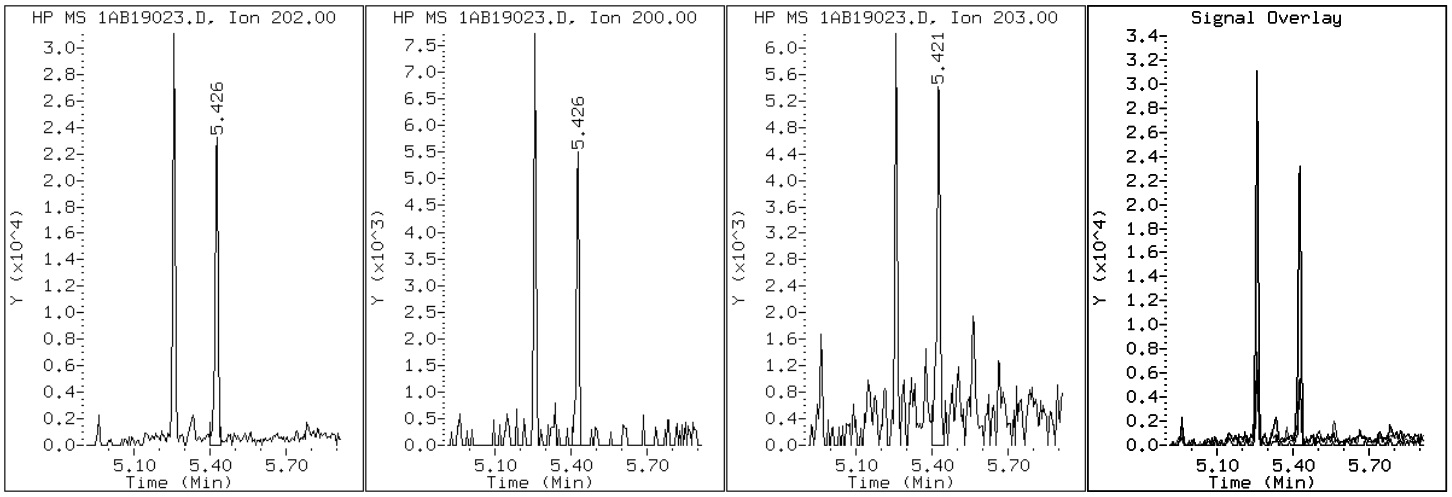
Data File: 1AB19023.D

Date: 19-FEB-2013 17:28

Client ID: CV0748W-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-7-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB19023.D
Inj. Date and Time: 19-FEB-2013 17:28
Instrument ID: BSMA5973.i
Client ID: CV0748W-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

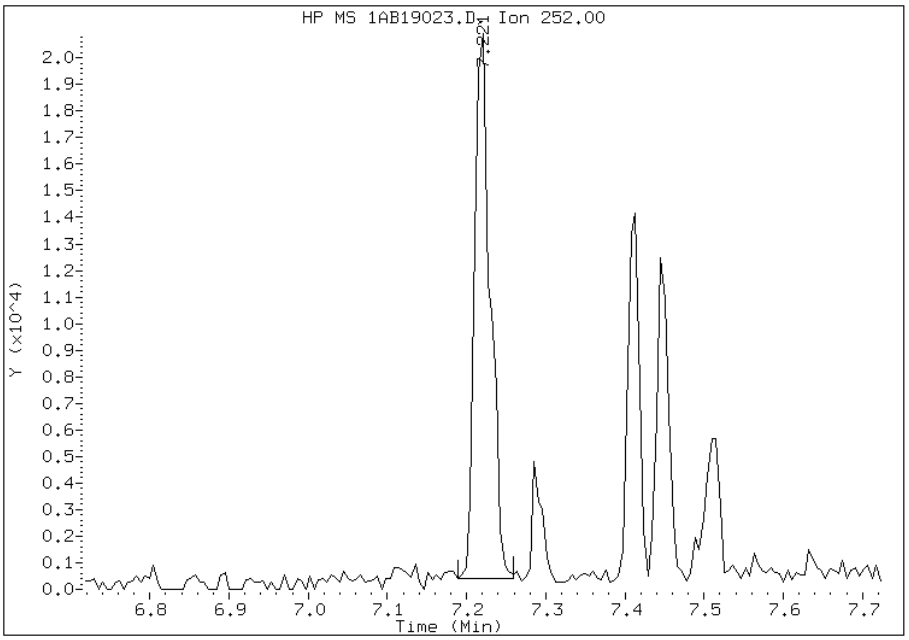
Processing Integration Results

RT: 7.22

Response: 27866

Amount: 1

Conc: 461



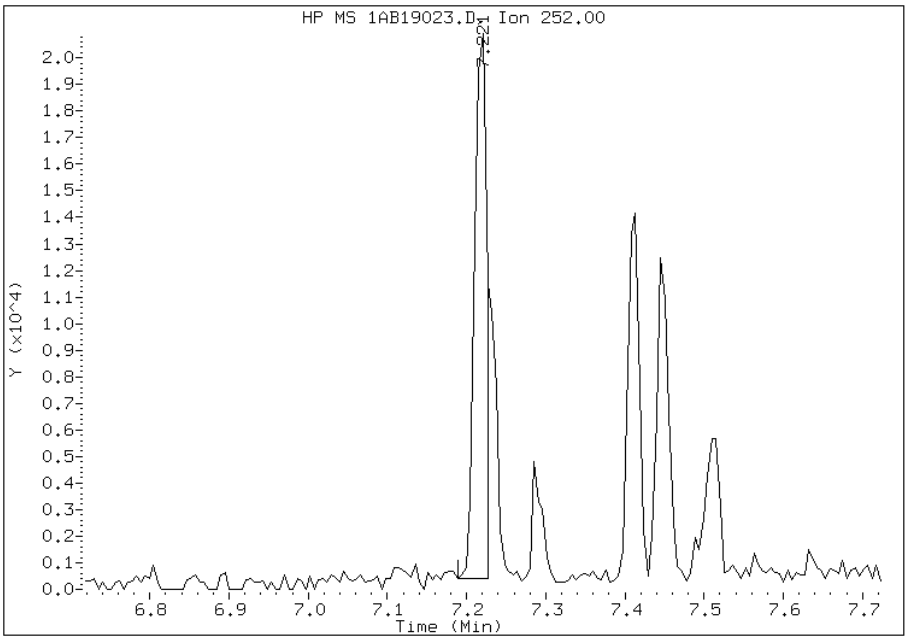
Manual Integration Results

RT: 7.22

Response: 21460

Amount: 1

Conc: 355



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19023.D
Inj. Date and Time: 19-FEB-2013 17:28
Instrument ID: BSMA5973.i
Client ID: CV0748W-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

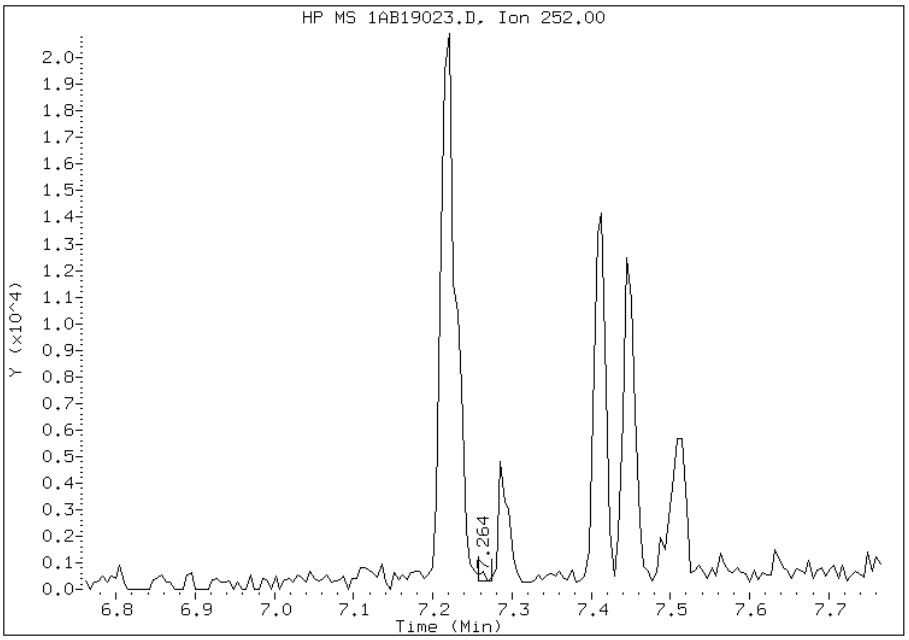
Processing Integration Results

RT: 7.26

Response: 226

Amount: 0

Conc: 4



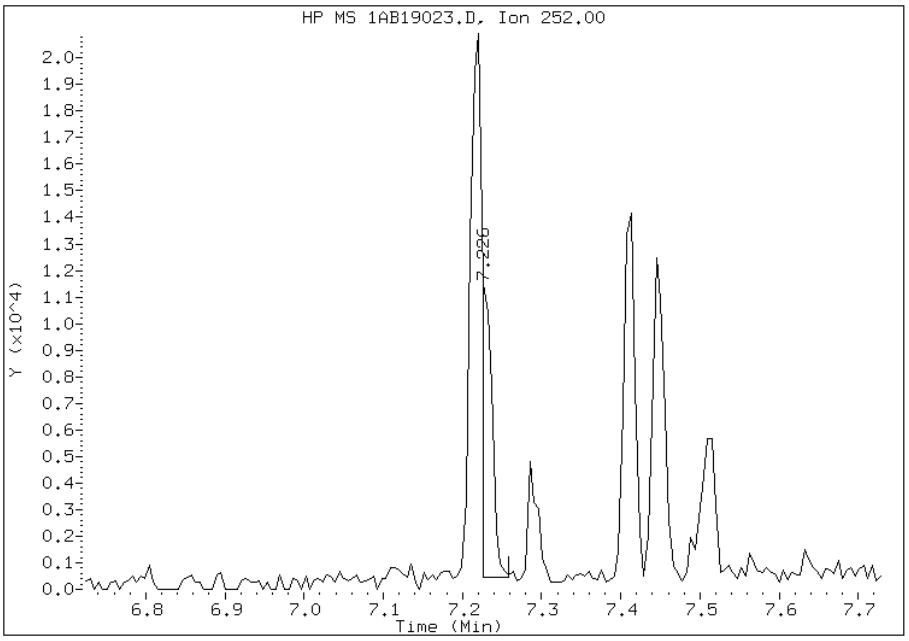
Manual Integration Results

RT: 7.23

Response: 9910

Amount: 0

Conc: 157



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19023.D
Inj. Date and Time: 19-FEB-2013 17:28
Instrument ID: BSMA5973.i
Client ID: CV0748W-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

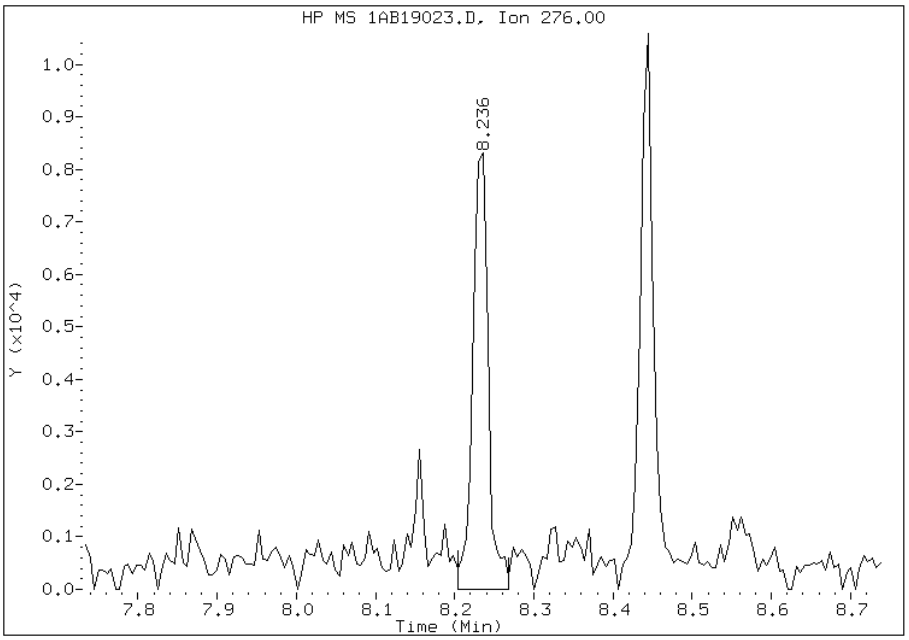
Processing Integration Results

RT: 8.24

Response: 11263

Amount: 1

Conc: 248



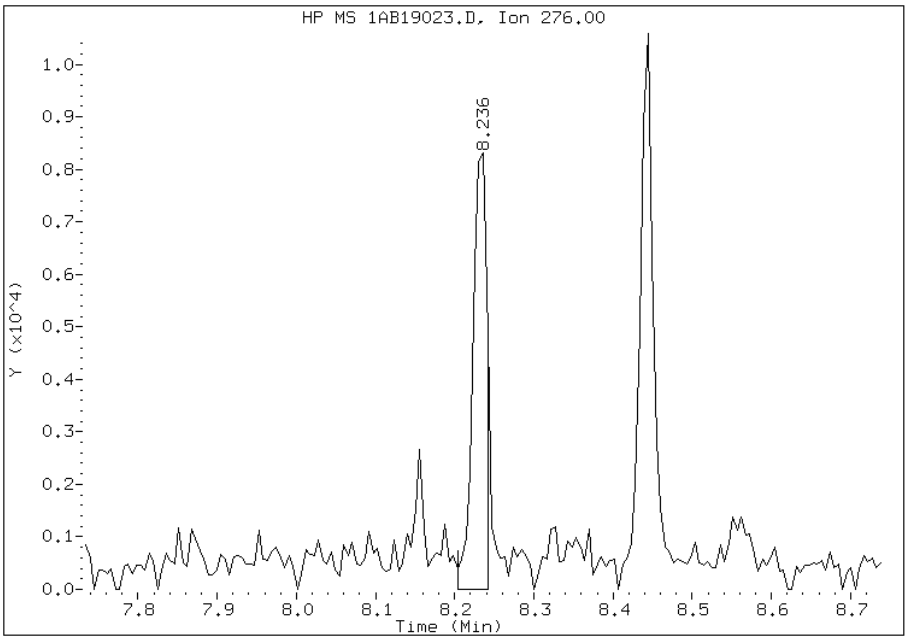
Manual Integration Results

RT: 8.24

Response: 10153

Amount: 1

Conc: 224



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748Y-CS | Lab Sample ID: 680-87320-8

Matrix: Solid | Lab File ID: 1AB19024.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:06

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 15.28(g) | Date Analyzed: 02/19/2013 17:43

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

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

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

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	170	J	220	27
120-12-7	Anthracene	220		46	23
56-55-3	Benzo[a]anthracene	710		43	21
50-32-8	Benzo[a]pyrene	400		56	28
205-99-2	Benzo[b]fluoranthene	640		66	33
191-24-2	Benzo[g,h,i]perylene	370		110	24
207-08-9	Benzo[k]fluoranthene	230		43	20
218-01-9	Chrysene	670		49	24
53-70-3	Dibenz(a,h)anthracene	130		110	22
206-44-0	Fluoranthene	900		110	22
86-73-7	Fluorene	30	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	350		110	39
90-12-0	1-Methylnaphthalene	200	J	220	24
91-57-6	2-Methylnaphthalene	260		220	39
91-20-3	Naphthalene	220		220	24
85-01-8	Phenanthrene	530		43	21
129-00-0	Pyrene	700		110	20

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\BSMA5973.i\1A021913.b\1AB19024.D
Lab Smp Id: 680-87320-A-8-A Client Smp ID: CV0748Y-CS
Inj Date : 19-FEB-2013 17:43
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-8-a
Misc Info : 680-87320-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 24
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.280	Weight Extracted
M	27.590	% 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	2.409	2.405	(1.000)	702026	40.0000	
* 6 Acenaphthene-d10	164	3.435	3.431	(1.000)	475627	40.0000	
* 10 Phenanthrene-d10	188	4.375	4.371	(1.000)	722341	40.0000	
$ 14 o-Terphenyl	230	4.653	4.649	(1.063)	18538	1.76620	638.5265
* 18 Chrysene-d12	240	6.405	6.390	(1.000)	603404	40.0000	
* 23 Perylene-d12	264	7.506	7.480	(1.000)	788836	40.0000	(H)
2 Naphthalene	128	2.420	2.416	(1.004)	10258	0.60200	217.6395
3 2-Methylnaphthalene	141	2.821	2.816	(1.171)	6628	0.72607	262.4939
4 1-Methylnaphthalene	142	2.879	2.875	(1.195)	5715	0.55306	199.9440
5 Acenaphthylene	152	3.350	3.345	(0.975)	10104	0.48111	173.9344
9 Fluorene	166	3.766	3.757	(1.096)	1191	0.08333	30.1253(Q)
11 Phenanthrene	178	4.391	4.387	(1.004)	29054	1.47310	532.5655
12 Anthracene	178	4.423	4.419	(1.011)	12169	0.60516	218.7808
13 Carbazole	167	4.584	4.574	(1.048)	3174	0.18414	66.5709

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.257	5.247	(1.201)	48672	2.48909	899.8714
16 Pyrene	202	5.422	5.413	(0.847)	42139	1.93370	699.0827
17 Benzo(a)anthracene	228	6.395	6.374	(0.998)	35249	1.95645	707.3078
19 Chrysene	228	6.416	6.406	(1.002)	32377	1.84365	666.5266
20 Benzo(b)fluoranthene	252	7.217	7.202	(0.962)	39173	1.77925	643.2451(MH)
21 Benzo(k)fluoranthene	252	7.228	7.224	(0.963)	14902	0.64738	234.0433(QMH)
22 Benzo(a)pyrene	252	7.447	7.432	(0.992)	23232	1.11119	401.7250(H)
24 Indeno(1,2,3-cd)pyrene	276	8.238	8.212	(1.098)	15922	0.96444	348.6718(MH)
25 Dibenzo(a,h)anthracene	278	8.248	8.228	(1.099)	6029	0.36530	132.0658(H)
26 Benzo(g,h,i)perylene	276	8.446	8.420	(1.125)	17444	1.01992	368.7284(H)

QC Flag Legend

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

Data File: 1AB19024.D

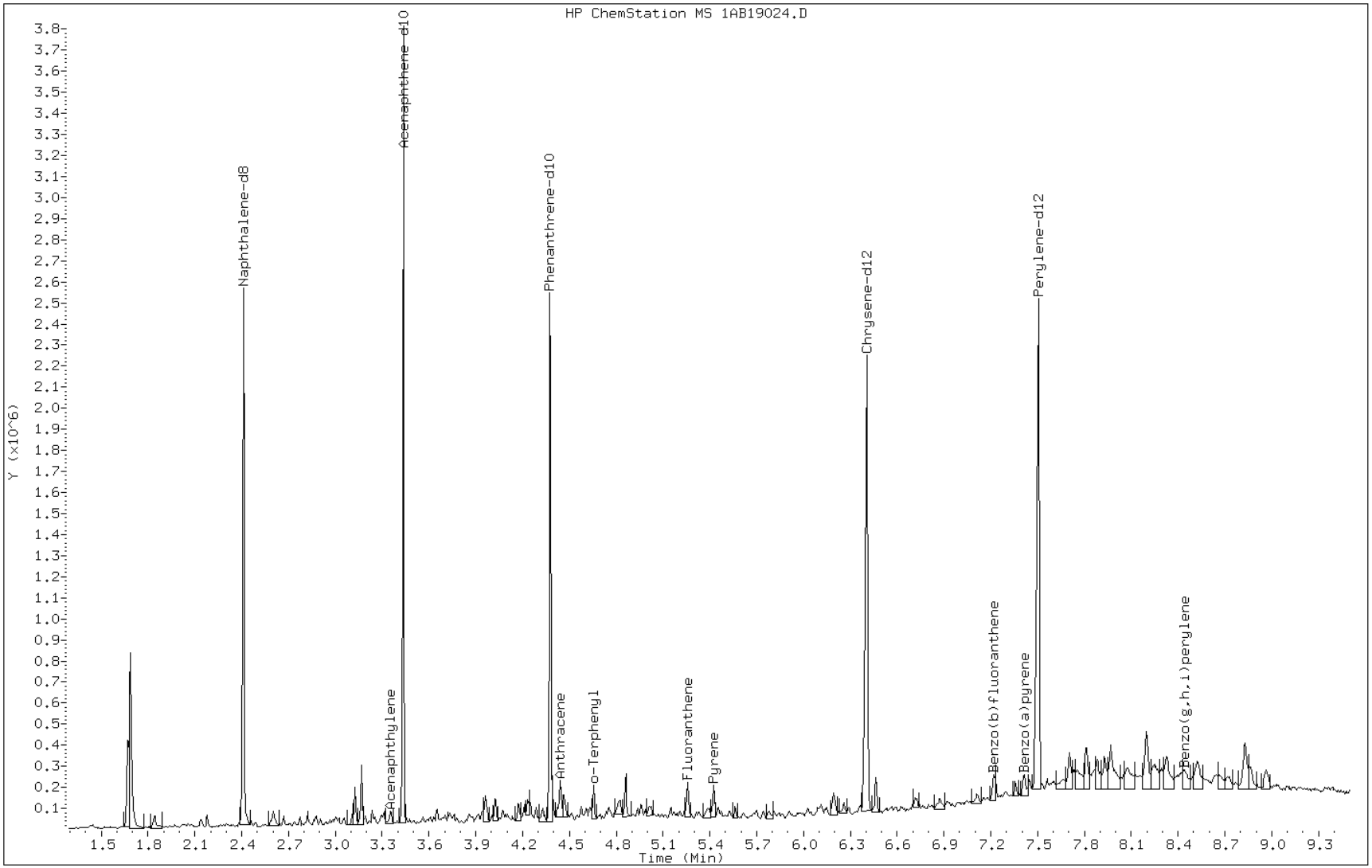
Date: 19-FEB-2013 17:43

Client ID: CV0748Y-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a

Operator: SCC



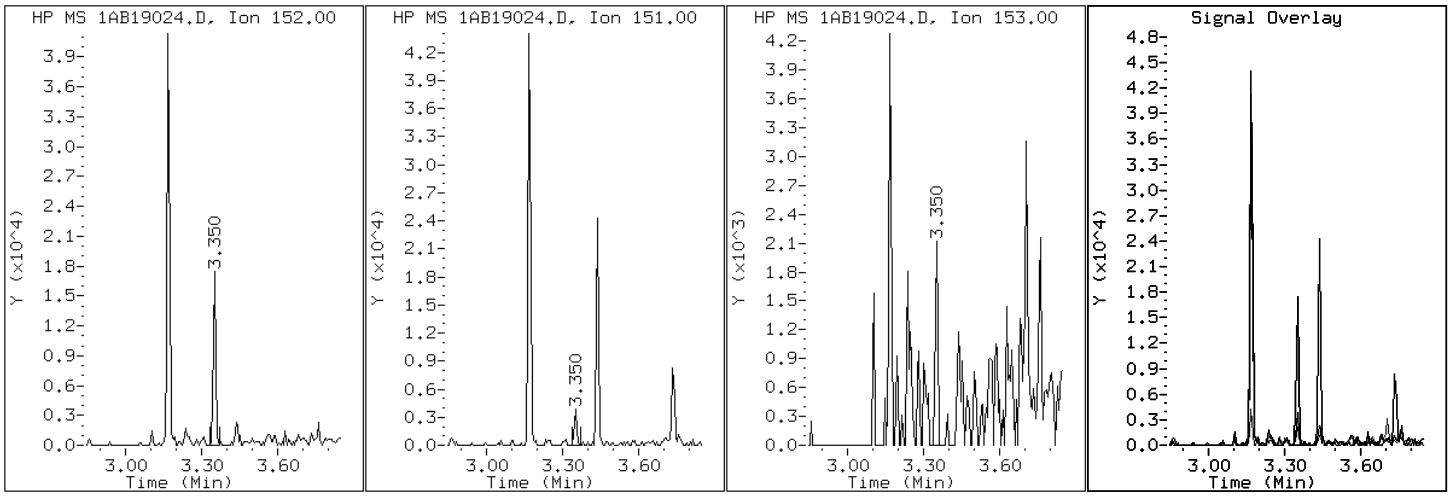
Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

Client ID: CV0748Y-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a Operator: SCC

5 Acenaphthylene



Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

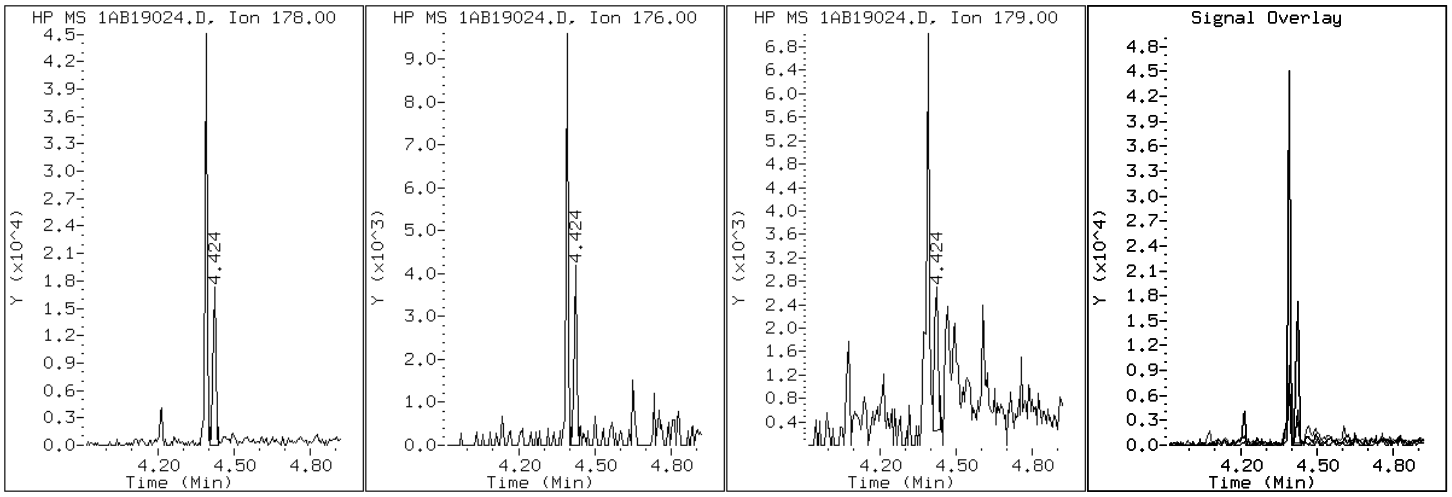
Client ID: CV0748Y-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a

Operator: SCC

12 Anthracene



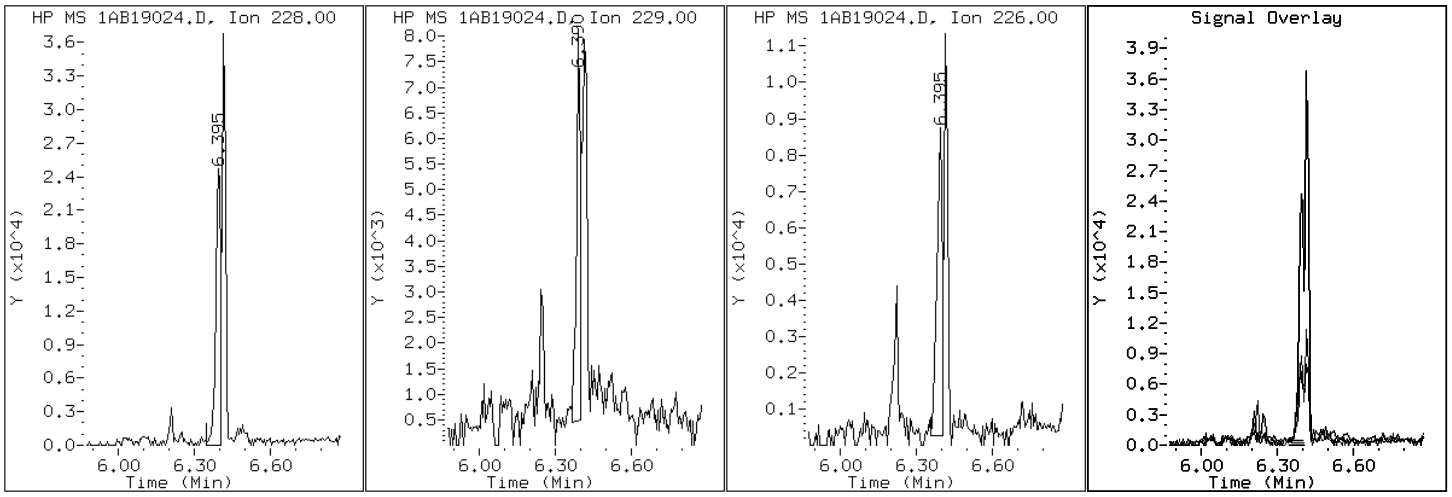
Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

Client ID: CV0748Y-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a Operator: SCC

17 Benzo(a)anthracene



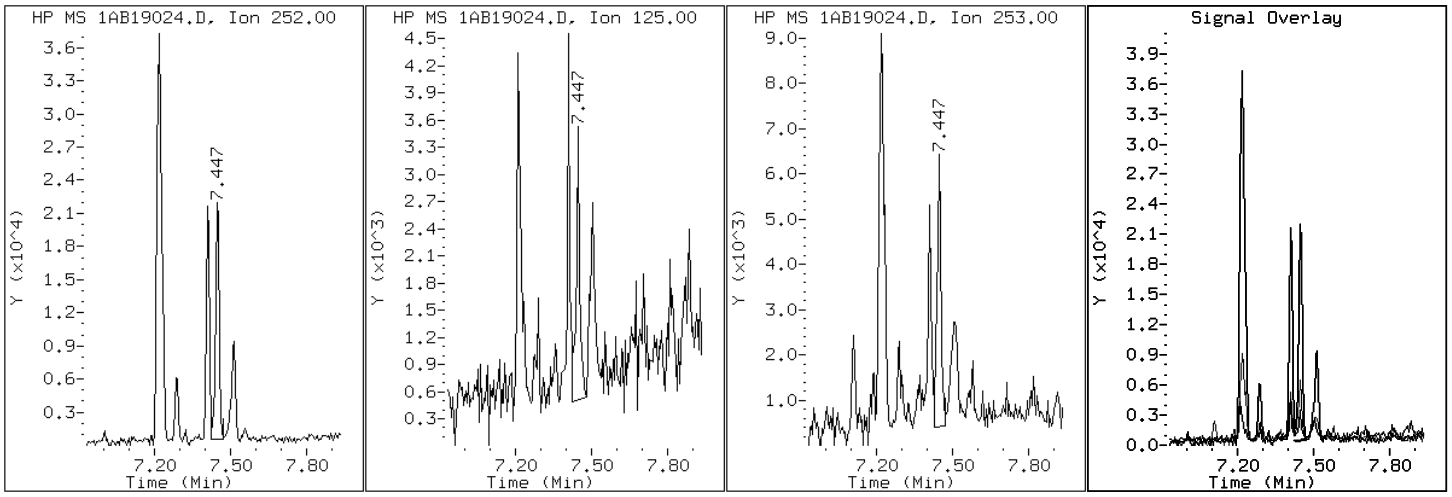
Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

Client ID: CV0748Y-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

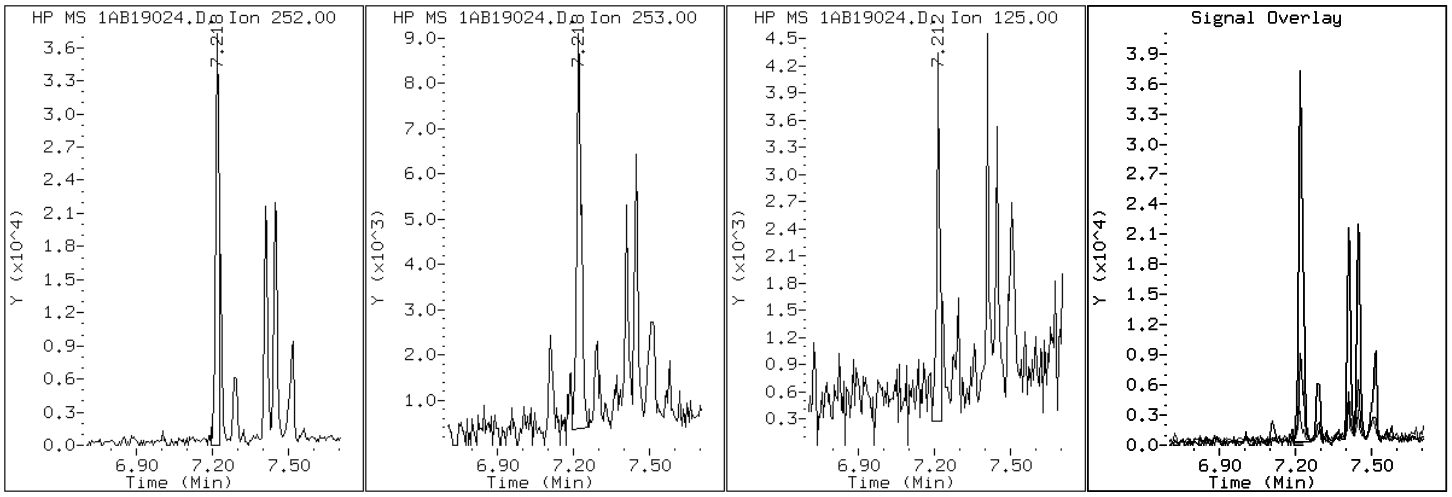
Client ID: CV0748Y-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

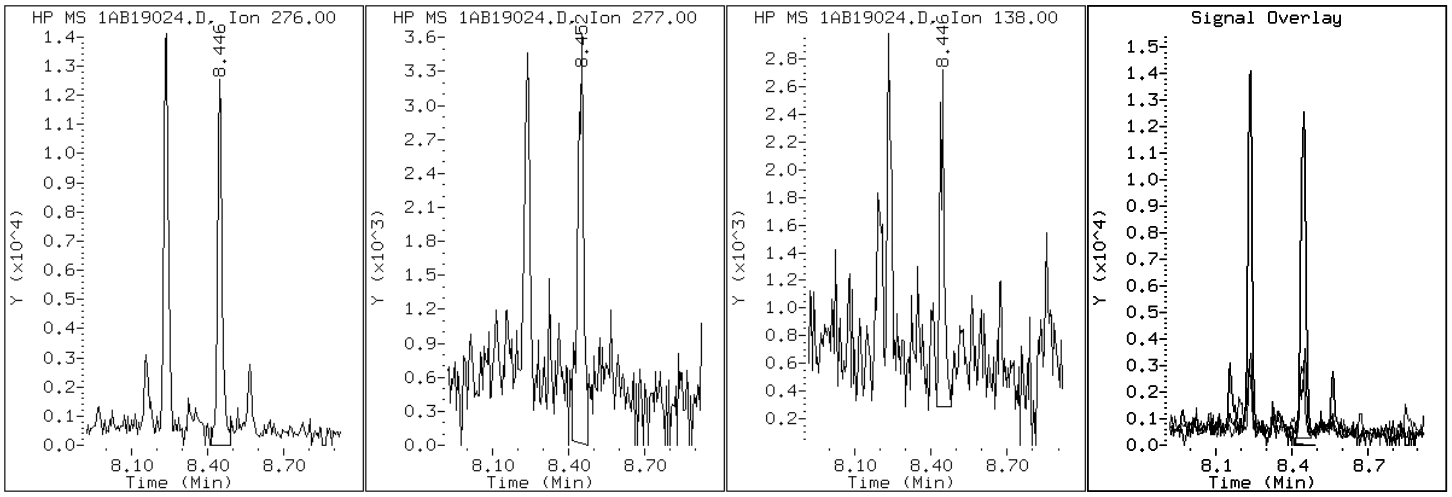
Client ID: CV0748Y-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

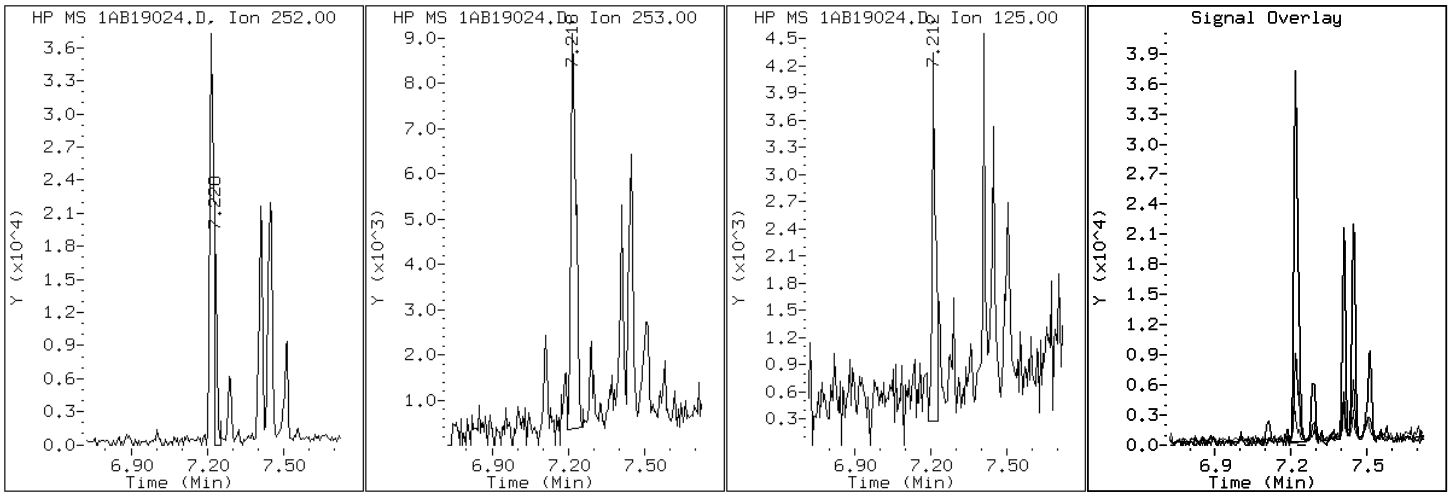
Client ID: CV0748Y-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a

Operator: SCC

21 Benzo(k)fluoranthene



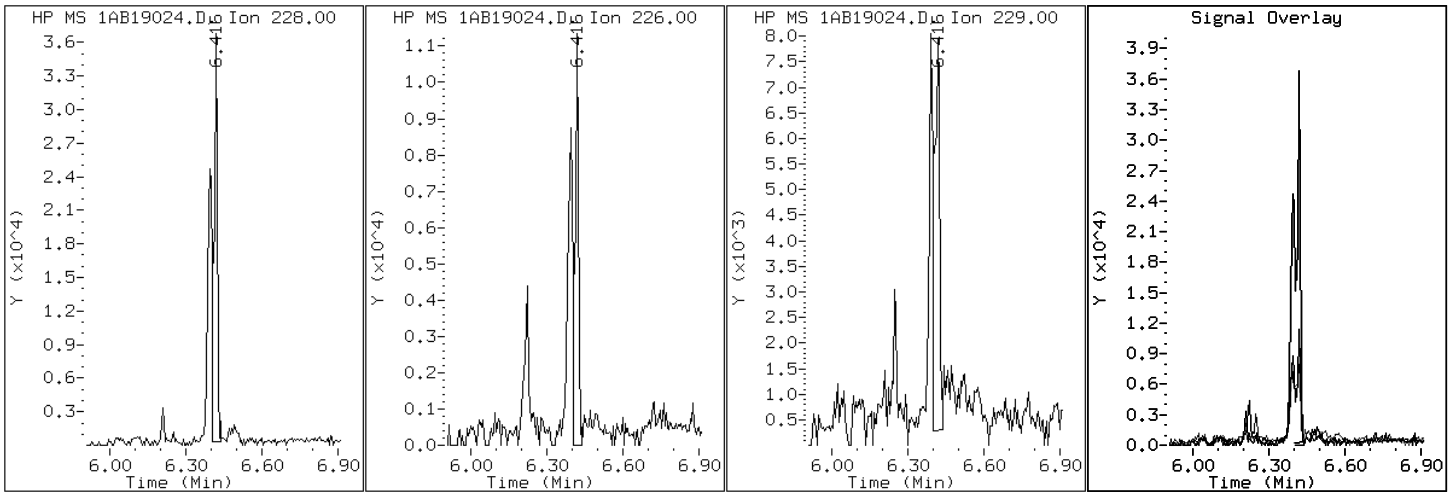
Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

Client ID: CV0748Y-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a Operator: SCC

19 Chrysene



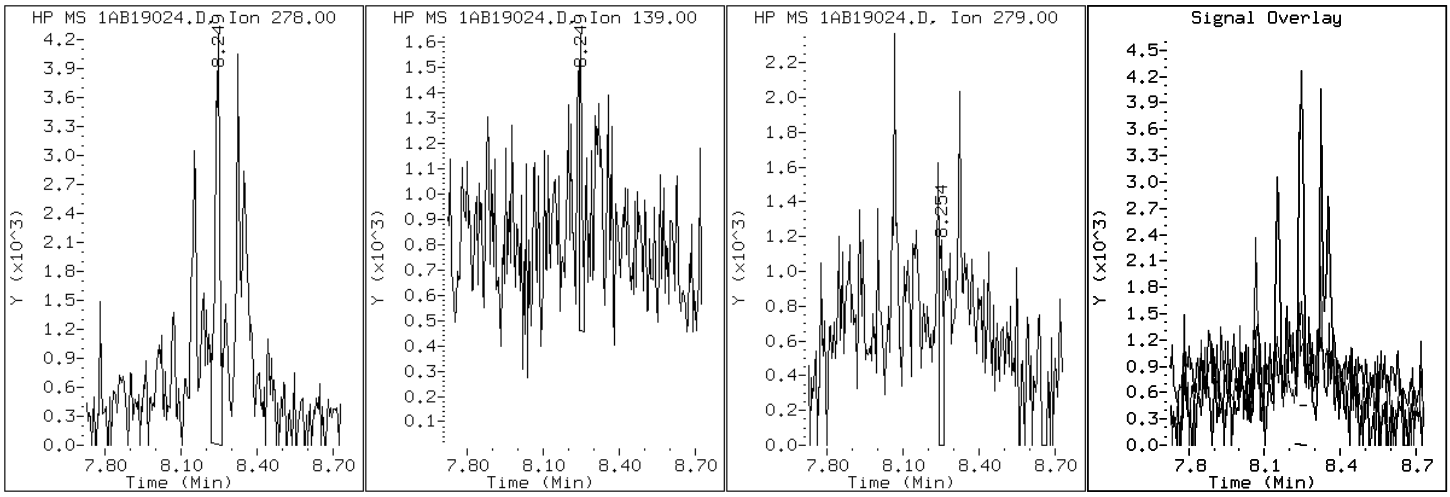
Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

Client ID: CV0748Y-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

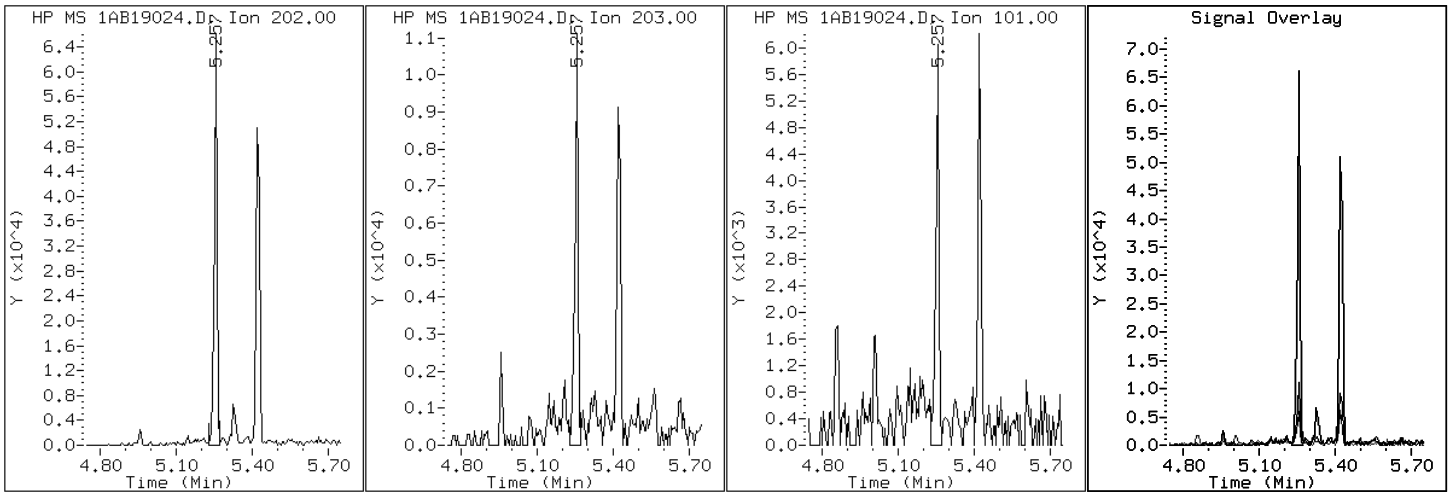
Client ID: CV0748Y-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a

Operator: SCC

15 Fluoranthene



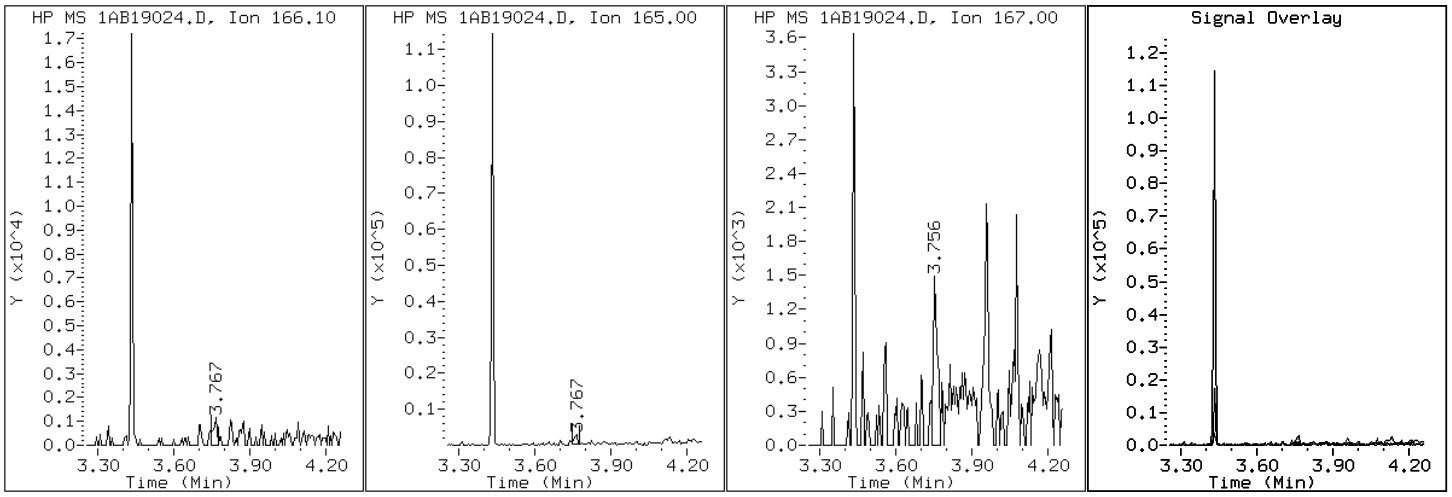
Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

Client ID: CV0748Y-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a Operator: SCC

9 Fluorene



Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

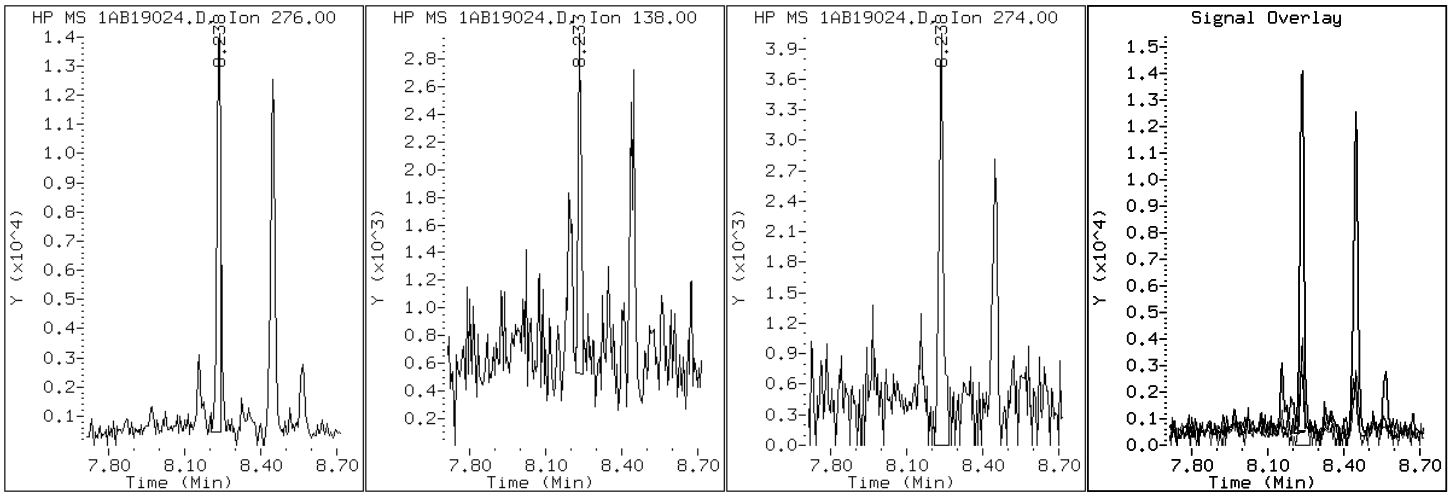
Client ID: CV0748Y-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a

Operator: SCC

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



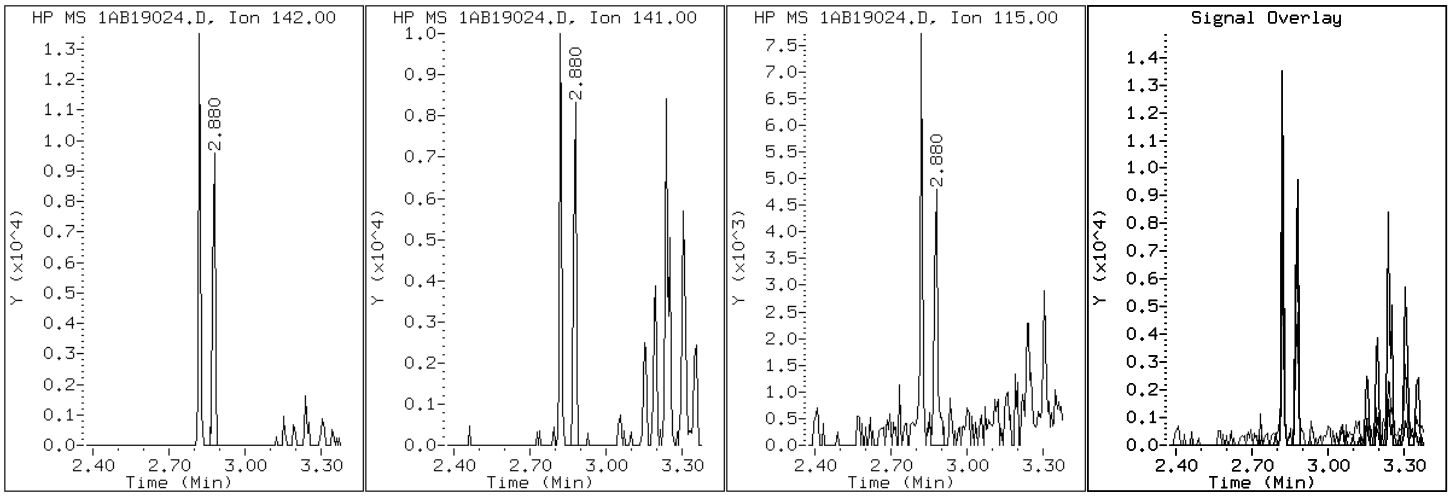
Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

Client ID: CV0748Y-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a Operator: SCC

4 1-Methylnaphthalene



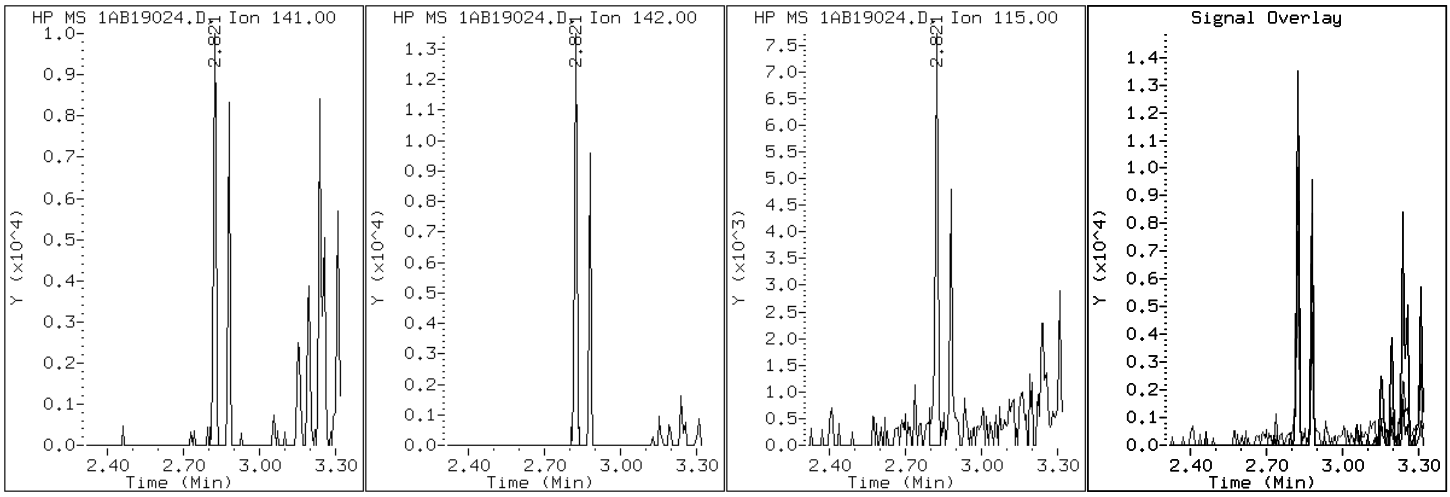
Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

Client ID: CV0748Y-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

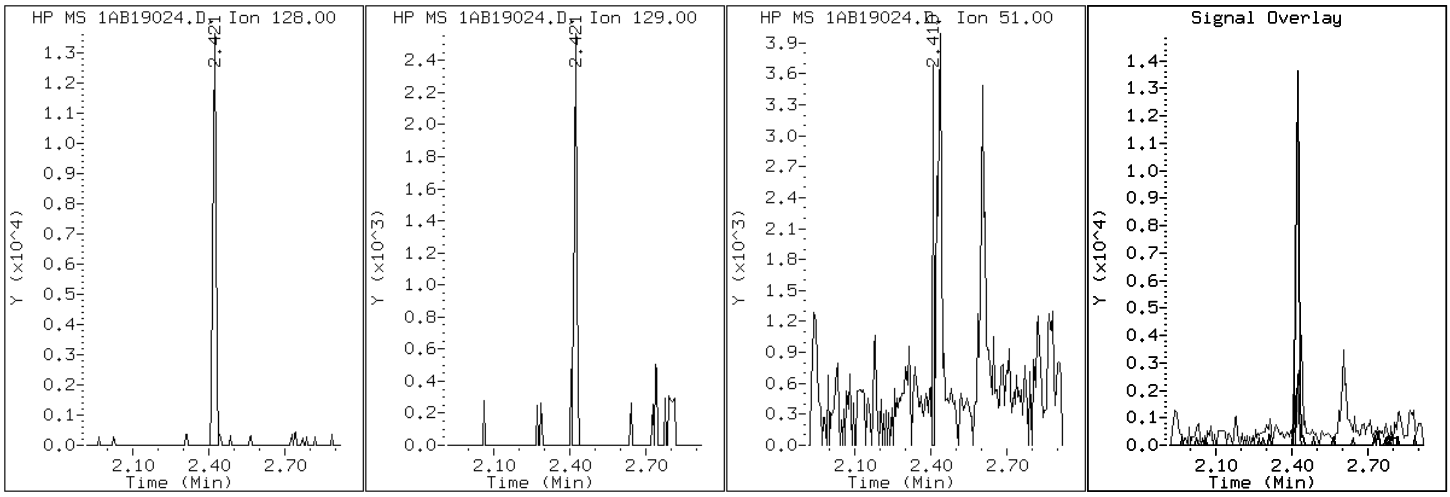
Client ID: CV0748Y-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a

Operator: SCC

2 Naphthalene



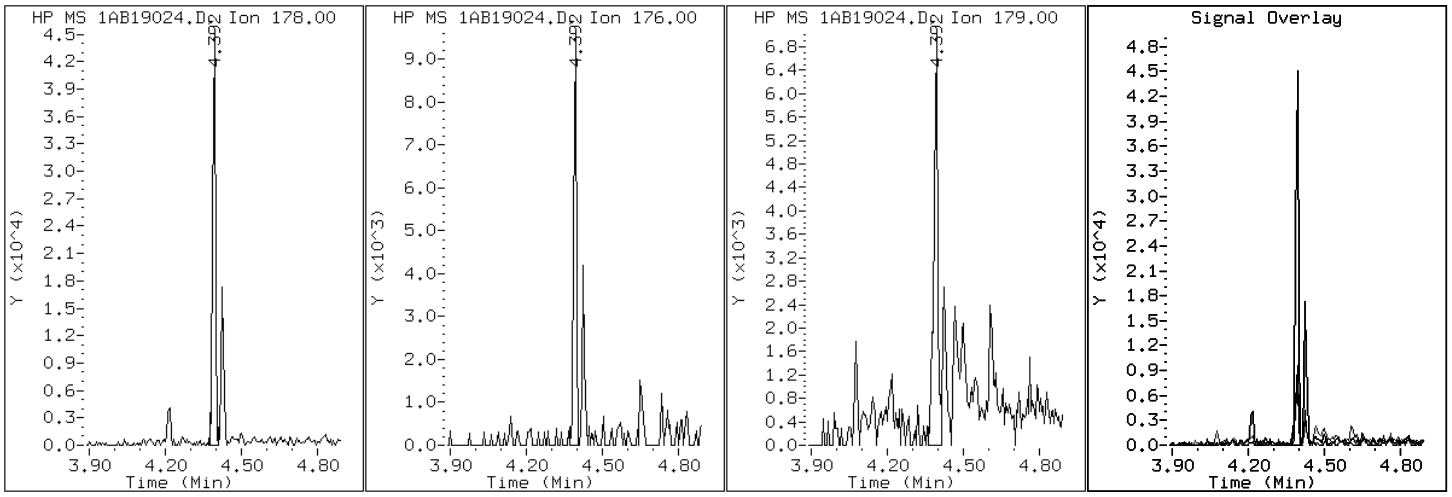
Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

Client ID: CV0748Y-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a Operator: SCC

11 Phenanthrene



Data File: 1AB19024.D

Date: 19-FEB-2013 17:43

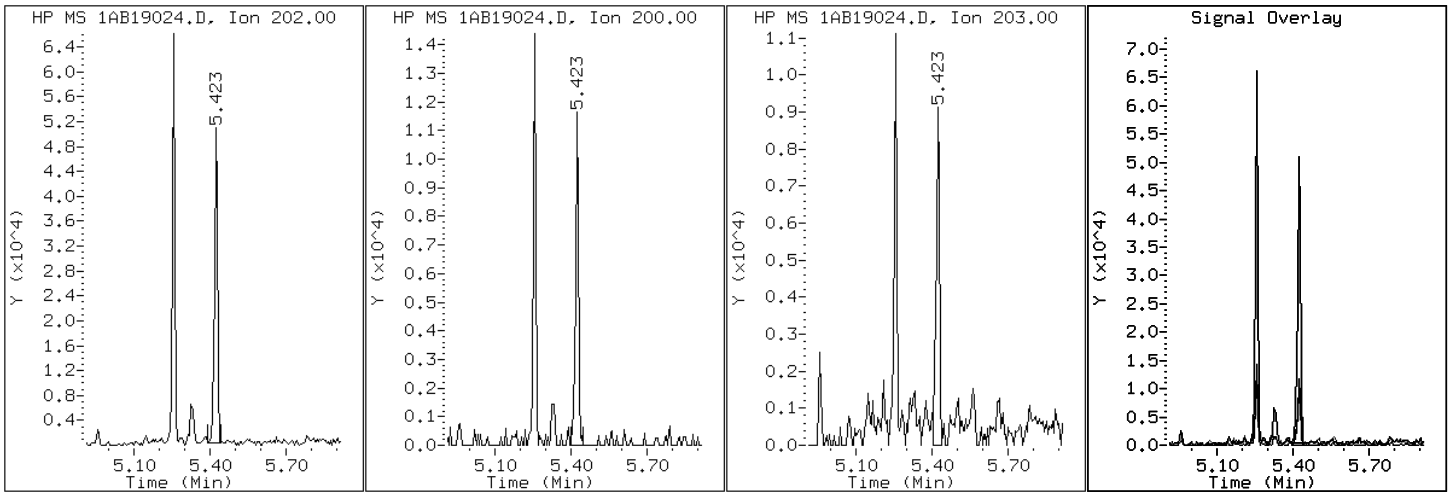
Client ID: CV0748Y-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-8-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB19024.D
Inj. Date and Time: 19-FEB-2013 17:43
Instrument ID: BSMA5973.i
Client ID: CV0748Y-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

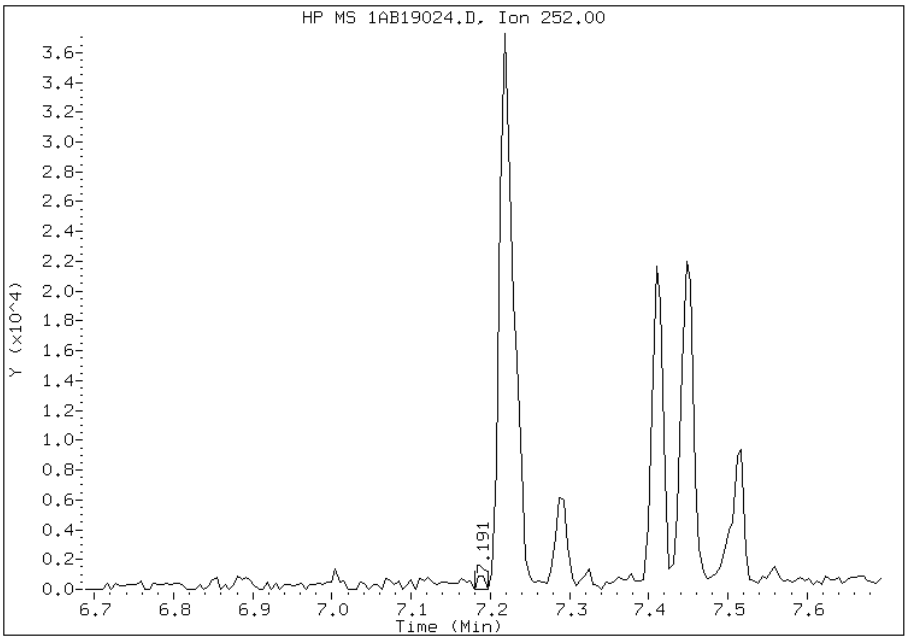
Processing Integration Results

RT: 7.19

Response: 571

Amount: 0

Conc: 9



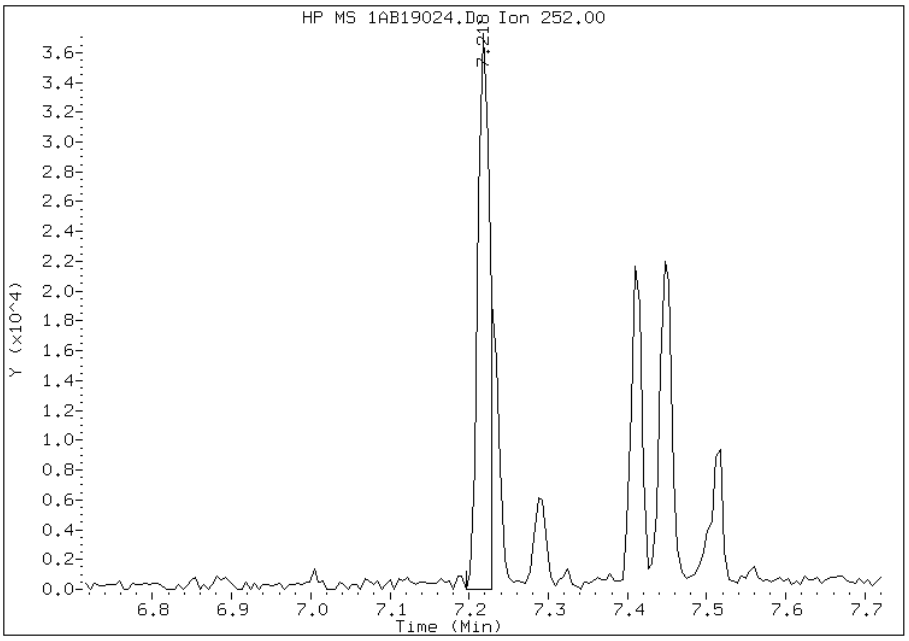
Manual Integration Results

RT: 7.22

Response: 39173

Amount: 2

Conc: 643



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:40
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19024.D
Inj. Date and Time: 19-FEB-2013 17:43
Instrument ID: BSMA5973.i
Client ID: CV0748Y-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

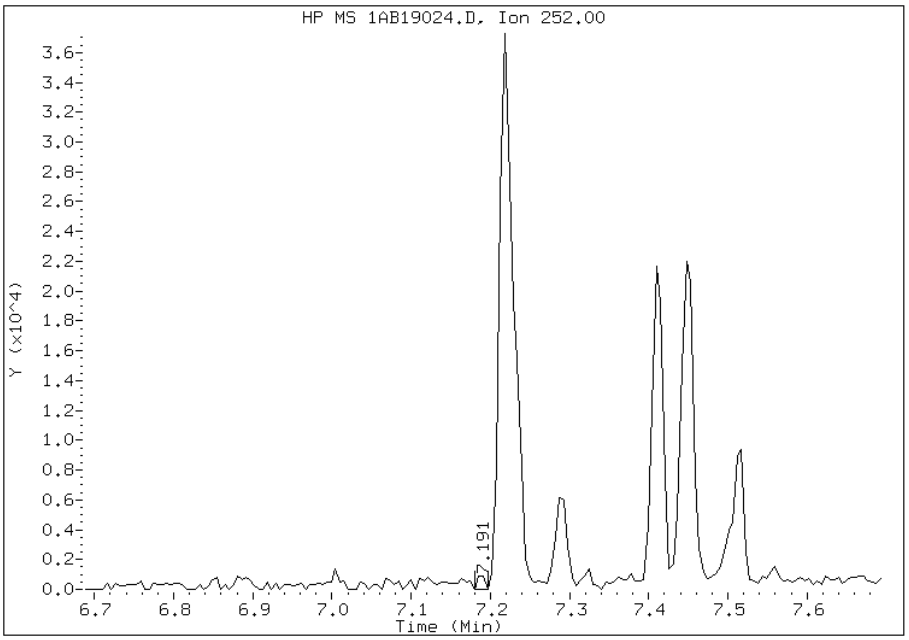
Processing Integration Results

RT: 7.19

Response: 571

Amount: 0

Conc: 9



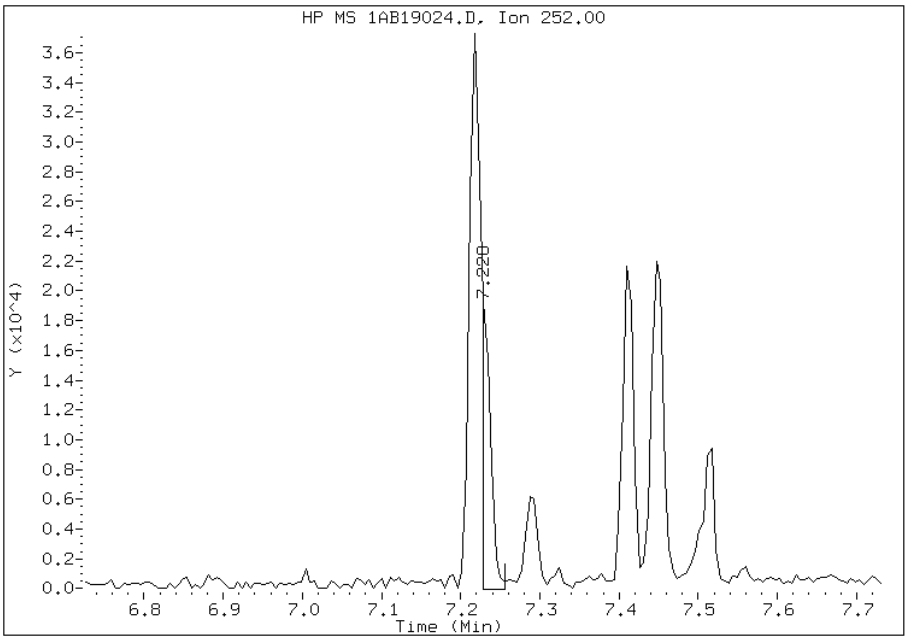
Manual Integration Results

RT: 7.23

Response: 14902

Amount: 1

Conc: 234



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19024.D
Inj. Date and Time: 19-FEB-2013 17:43
Instrument ID: BSMA5973.i
Client ID: CV0748Y-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

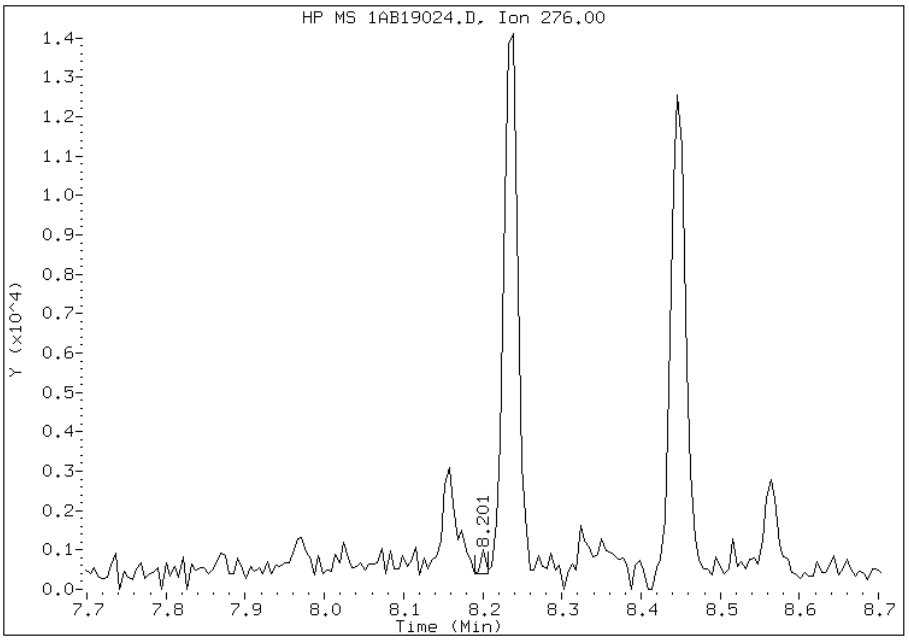
Processing Integration Results

RT: 8.20

Response: 238

Amount: 0

Conc: 5



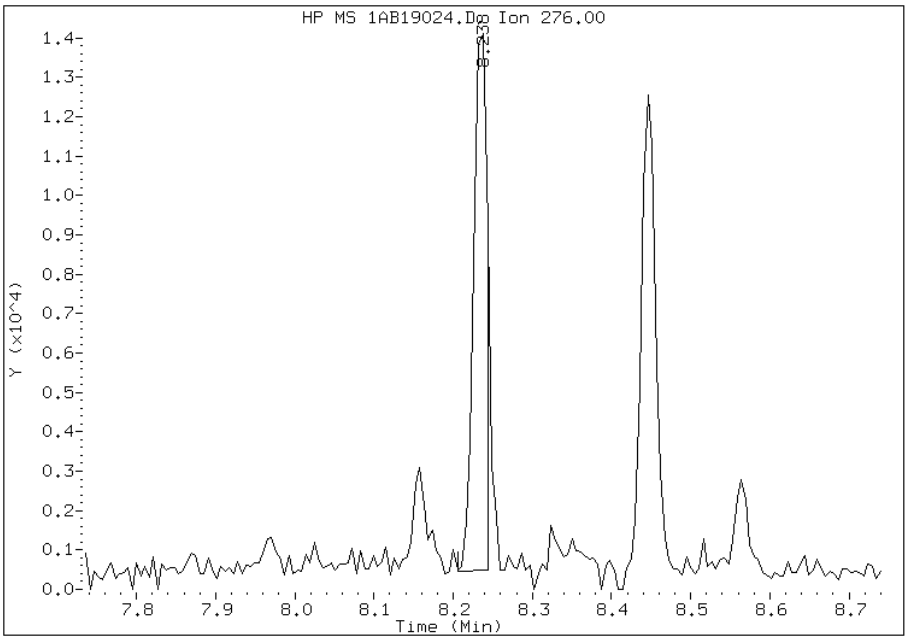
Manual Integration Results

RT: 8.24

Response: 15922

Amount: 1

Conc: 349



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748AA-CS | Lab Sample ID: 680-87320-9

Matrix: Solid | Lab File ID: 1AB19025.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:29

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 15.48(g) | Date Analyzed: 02/19/2013 17:58

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

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

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	45	J	48	6.0
120-12-7	Anthracene	62		10	5.0
56-55-3	Benzo[a]anthracene	280		9.6	4.7
50-32-8	Benzo[a]pyrene	180		12	6.2
205-99-2	Benzo[b]fluoranthene	290		15	7.3
191-24-2	Benzo[g,h,i]perylene	140		24	5.3
207-08-9	Benzo[k]fluoranthene	85		9.6	4.3
218-01-9	Chrysene	230		11	5.4
53-70-3	Dibenz(a,h)anthracene	49		24	4.9
206-44-0	Fluoranthene	330		24	4.8
86-73-7	Fluorene	12	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	120		24	8.5
90-12-0	1-Methylnaphthalene	40	J	48	5.3
91-57-6	2-Methylnaphthalene	59		48	8.5
91-20-3	Naphthalene	47	J	48	5.3
85-01-8	Phenanthrene	180		9.6	4.7
129-00-0	Pyrene	280		24	4.4

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\BSMA5973.i\1A021913.b\1AB19025.D
Lab Smp Id: 680-87320-A-9-A Client Smp ID: CV0748AA-CS
Inj Date : 19-FEB-2013 17:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-9-a
Misc Info : 680-87320-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.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	15.480	Weight Extracted
M	18.844	% 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	2.410	2.405	(1.000)	736510	40.0000	
* 6 Acenaphthene-d10	164	3.436	3.431	(1.000)	510063	40.0000	
* 10 Phenanthrene-d10	188	4.381	4.371	(1.000)	759936	40.0000	
$ 14 o-Terphenyl	230	4.659	4.649	(1.063)	67193	6.08507	484.3675
* 18 Chrysene-d12	240	6.406	6.390	(1.000)	616144	40.0000	
* 23 Perylene-d12	264	7.506	7.480	(1.000)	820625	40.0000	
2 Naphthalene	128	2.421	2.416	(1.004)	10498	0.58724	46.7440
3 2-Methylnaphthalene	141	2.821	2.816	(1.171)	7066	0.73781	58.7292
4 1-Methylnaphthalene	142	2.880	2.875	(1.195)	5486	0.50604	40.2802(Q)
5 Acenaphthylene	152	3.350	3.345	(0.975)	12667	0.56243	44.7690
9 Fluorene	166	3.762	3.757	(1.095)	2272	0.14823	11.7989
11 Phenanthrene	178	4.392	4.387	(1.002)	46841	2.25745	179.6917
12 Anthracene	178	4.424	4.419	(1.010)	16568	0.78316	62.3389
13 Carbazole	167	4.584	4.574	(1.046)	5324	0.29359	23.3695

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.257	5.247	(1.200)	84721	4.11830	327.8138
16 Pyrene	202	5.428	5.413	(0.847)	77923	3.50184	278.7441
17 Benzo(a)anthracene	228	6.401	6.374	(0.999)	65161	3.54189	281.9324
19 Chrysene	228	6.422	6.406	(1.002)	51508	2.87238	228.6394
20 Benzo(b)fluoranthene	252	7.223	7.202	(0.962)	84707	3.69838	294.3883(M)
21 Benzo(k)fluoranthene	252	7.234	7.224	(0.964)	25592	1.06871	85.0682(QM)
22 Benzo(a)pyrene	252	7.453	7.432	(0.993)	49562	2.27873	181.3856
24 Indeno(1,2,3-cd)pyrene	276	8.238	8.212	(1.097)	25301	1.47319	117.2650(M)
25 Dibenzo(a,h)anthracene	278	8.249	8.228	(1.099)	10491	0.61103	48.6378
26 Benzo(g,h,i)perylene	276	8.452	8.420	(1.126)	31678	1.78041	141.7196

QC Flag Legend

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

Data File: 1AB19025.D

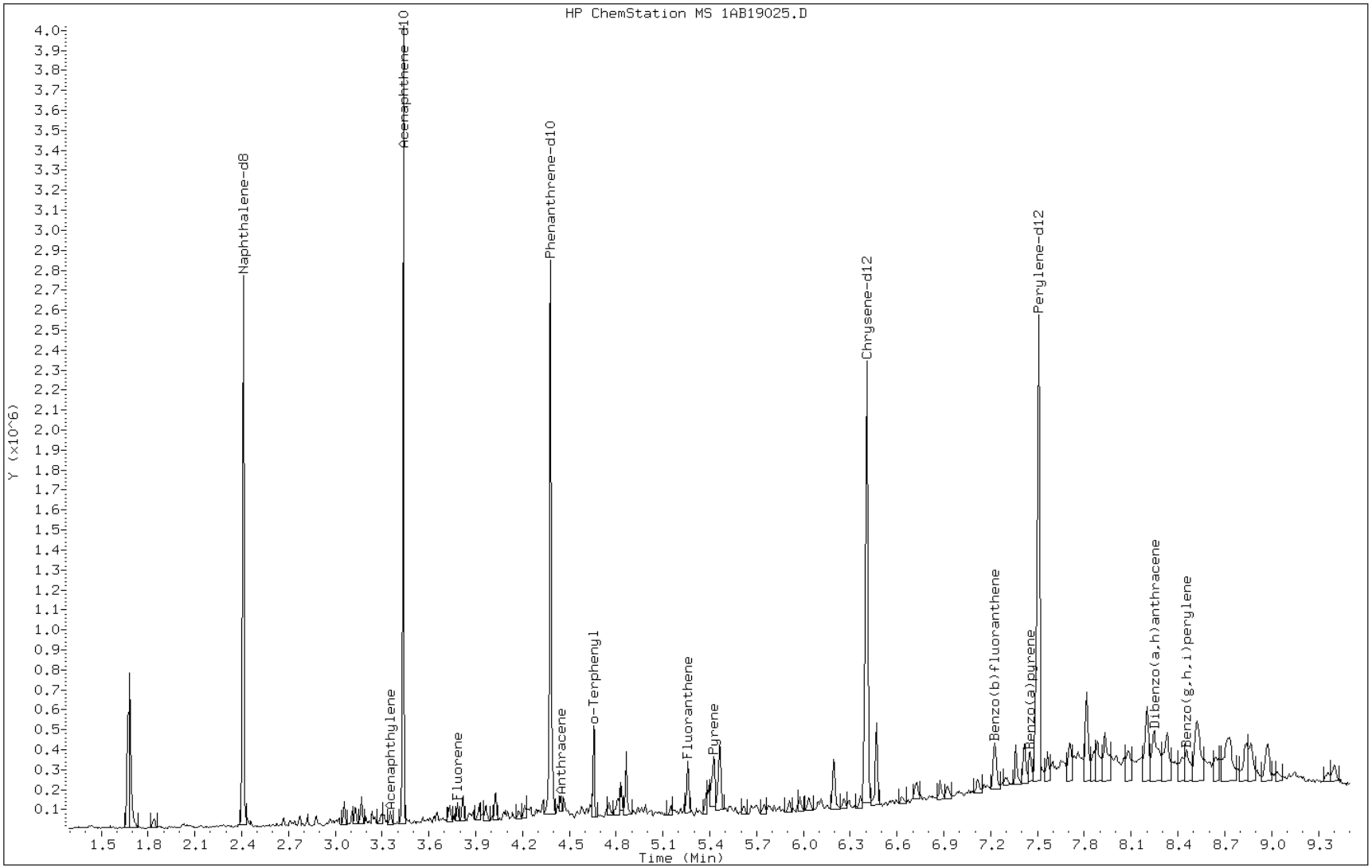
Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a

Operator: SCC



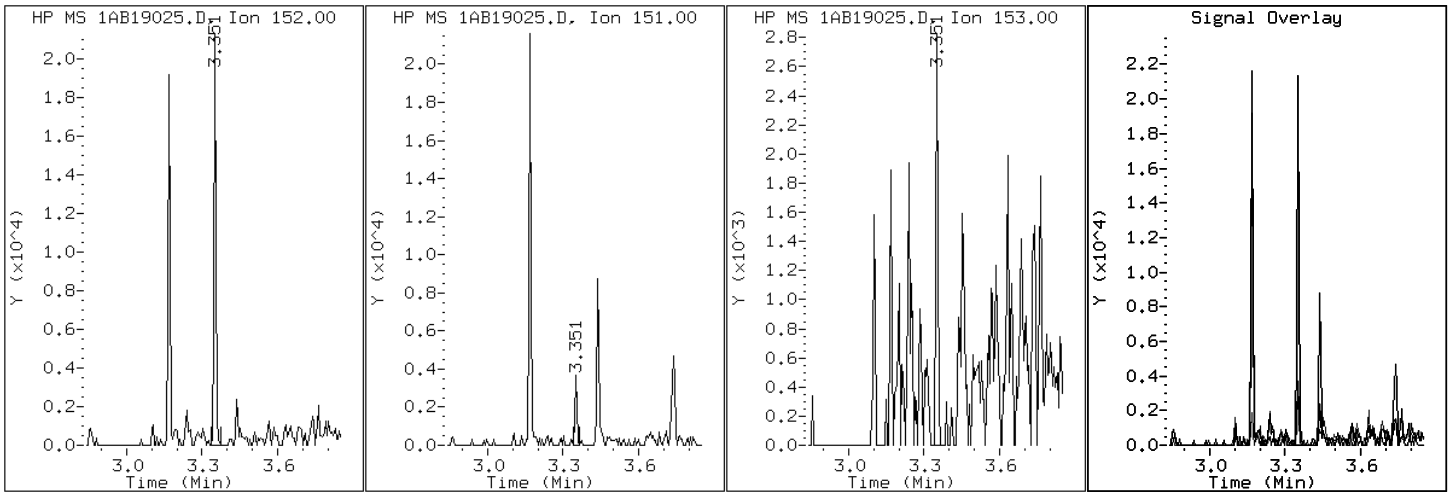
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

5 Acenaphthylene



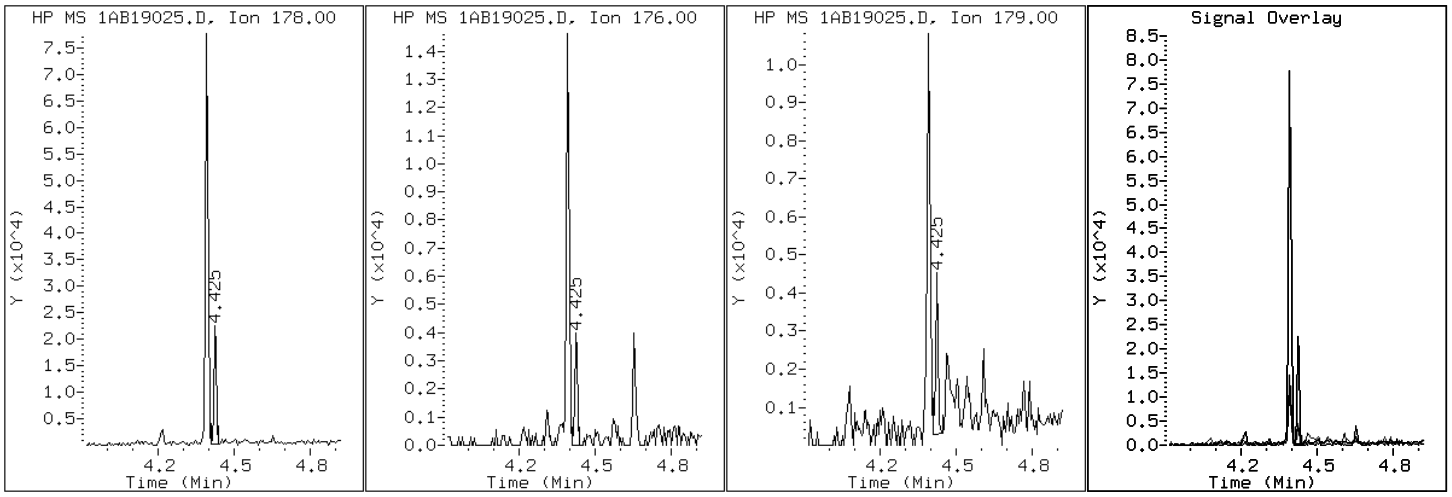
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

12 Anthracene



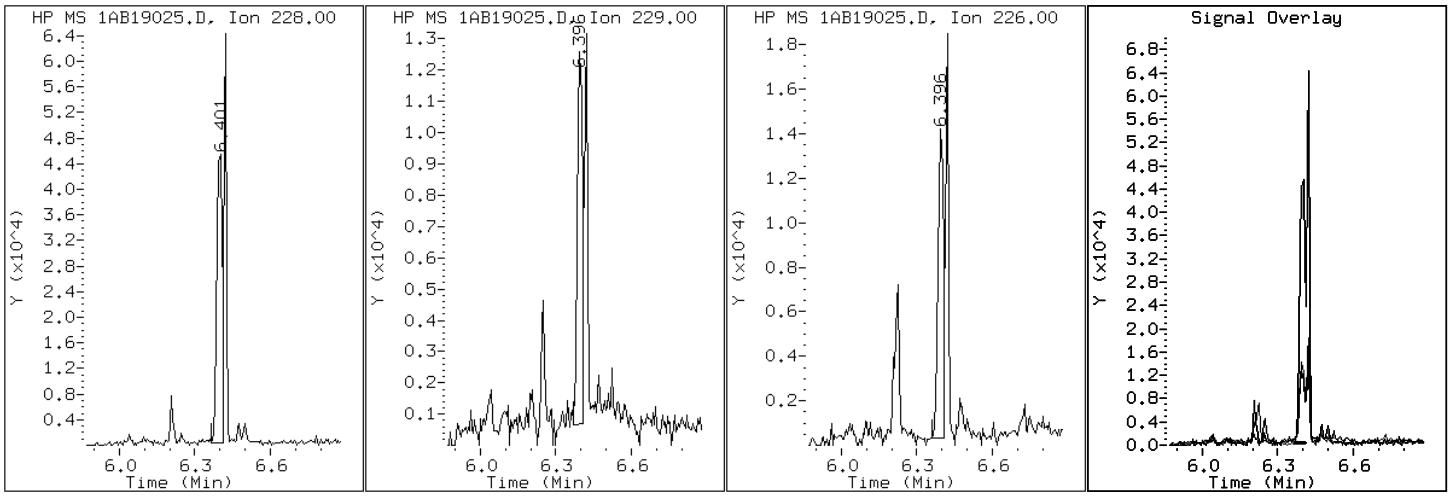
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

17 Benzo(a)anthracene



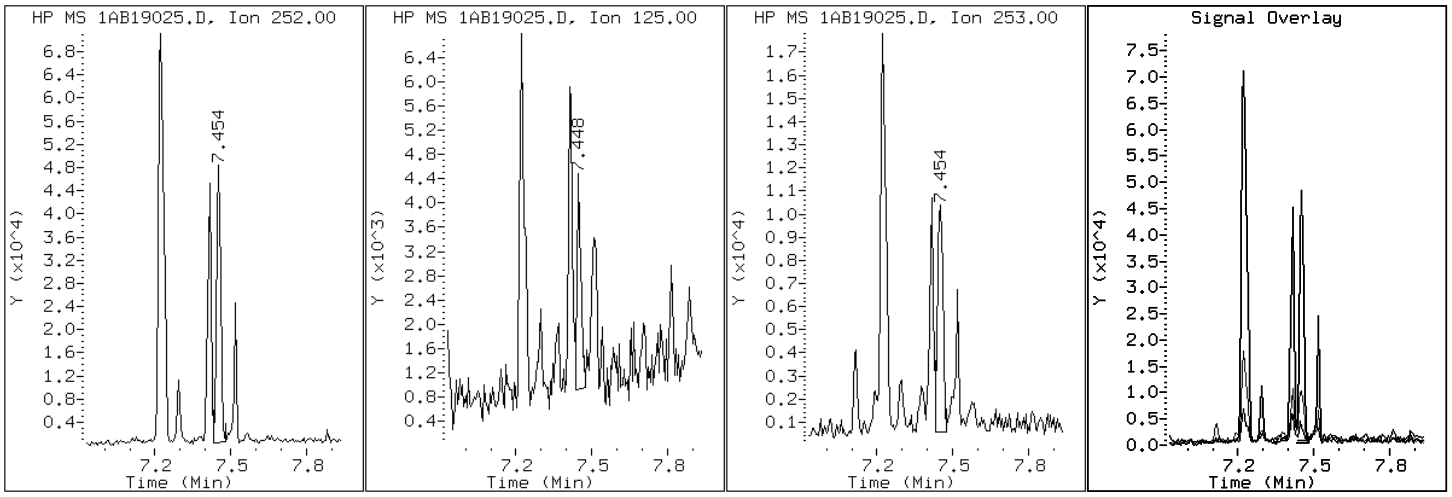
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

22 Benzo(a)pyrene



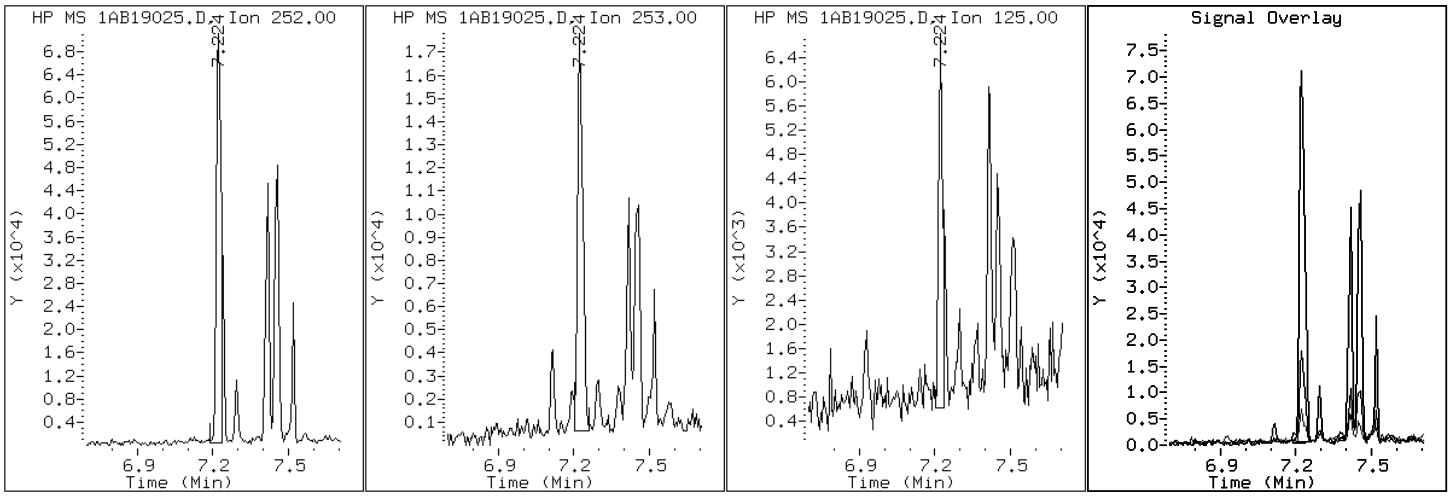
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

20 Benzo(b)fluoranthene



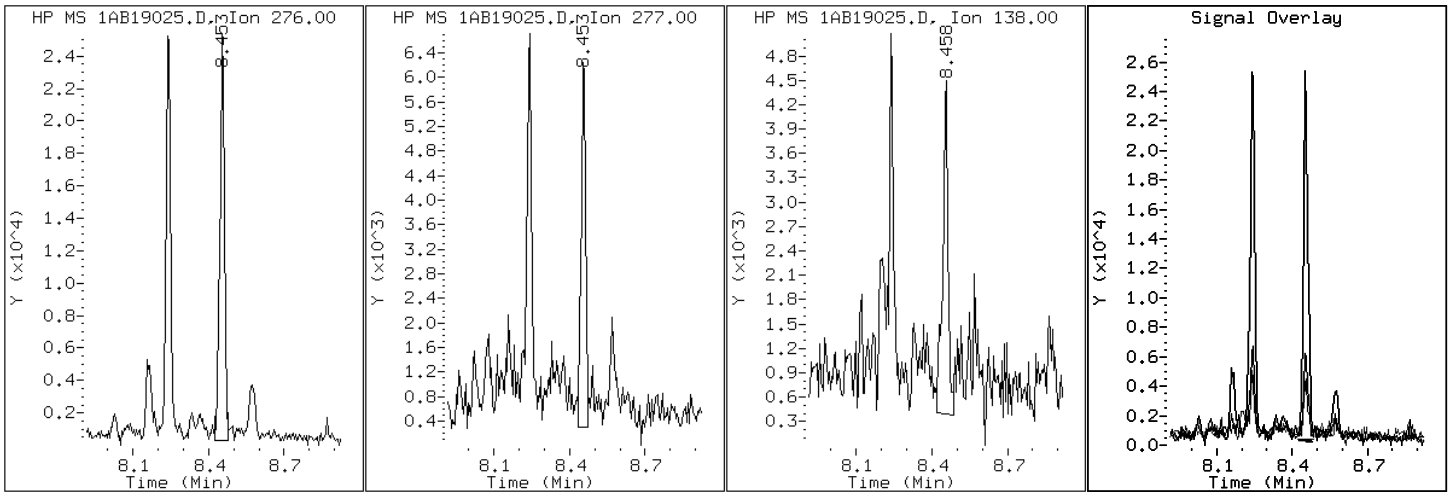
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

26 Benzo(g,h,i)perylene



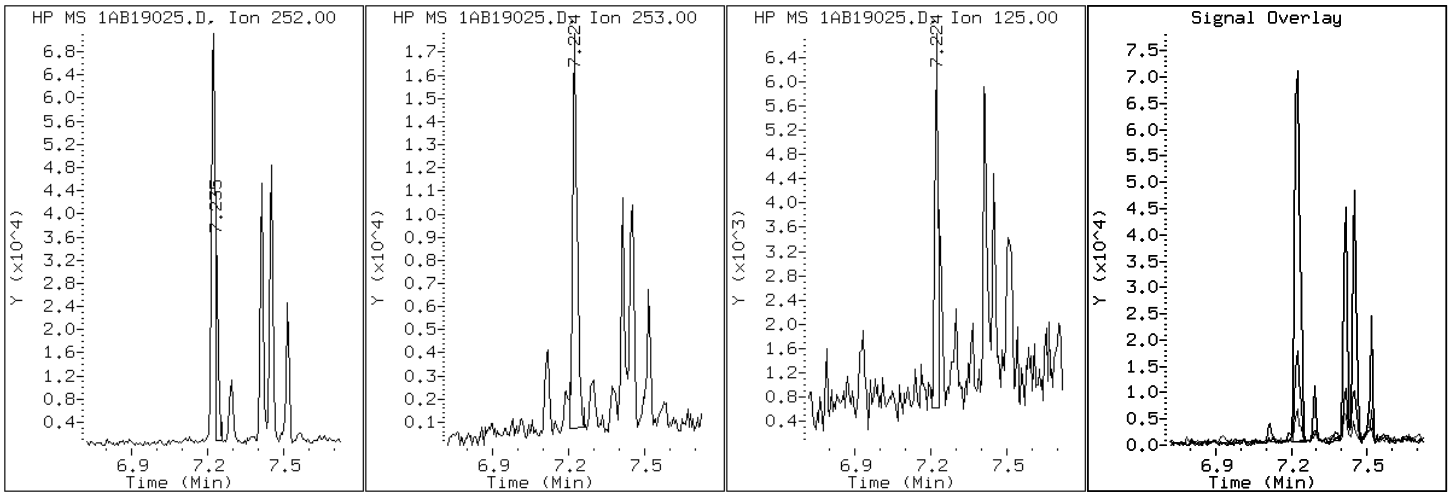
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

21 Benzo(k)fluoranthene



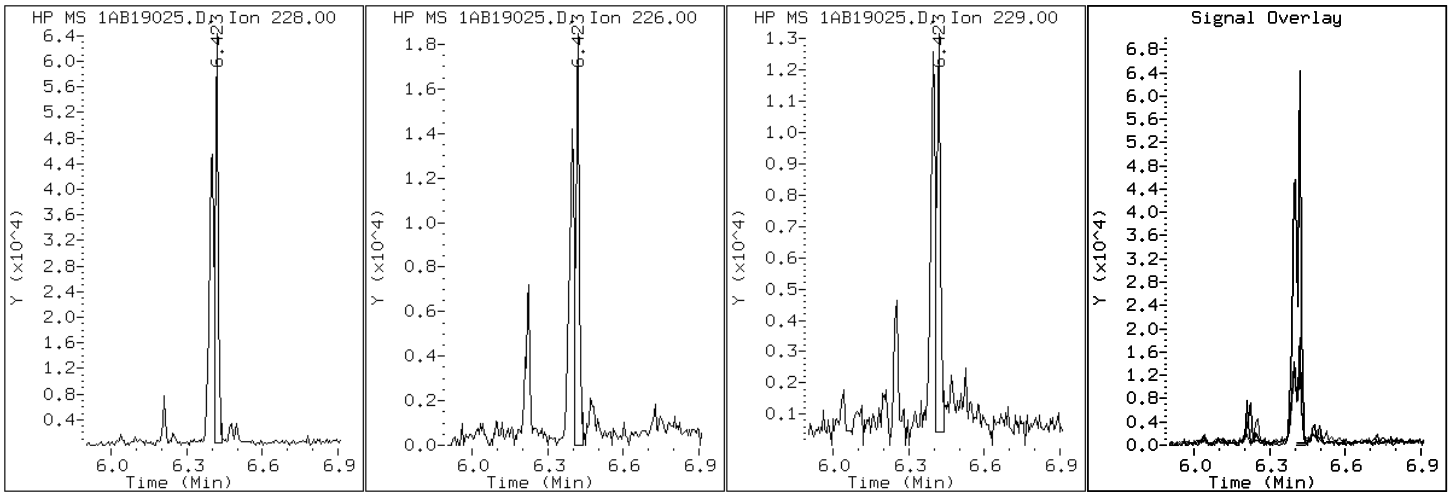
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

19 Chrysene



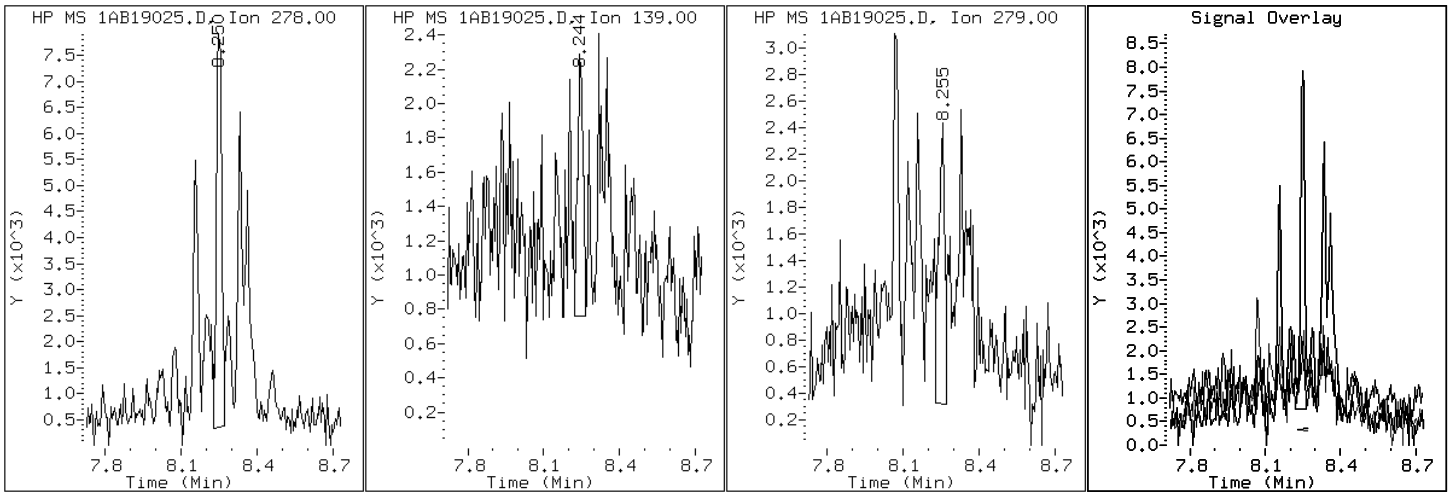
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

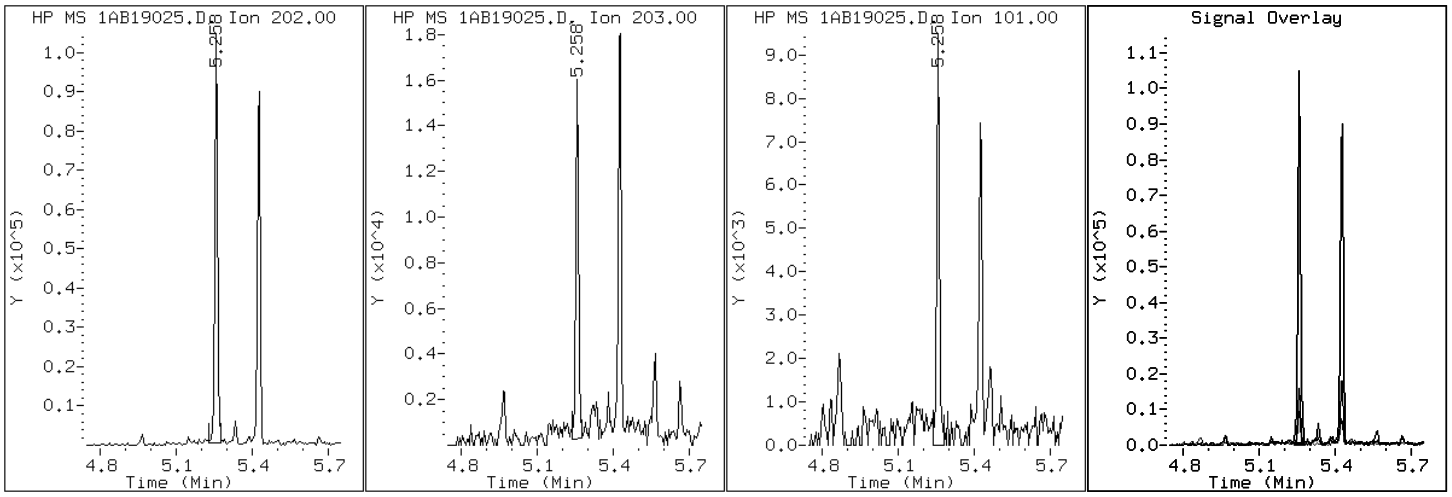
Client ID: CV0748AA-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a

Operator: SCC

15 Fluoranthene



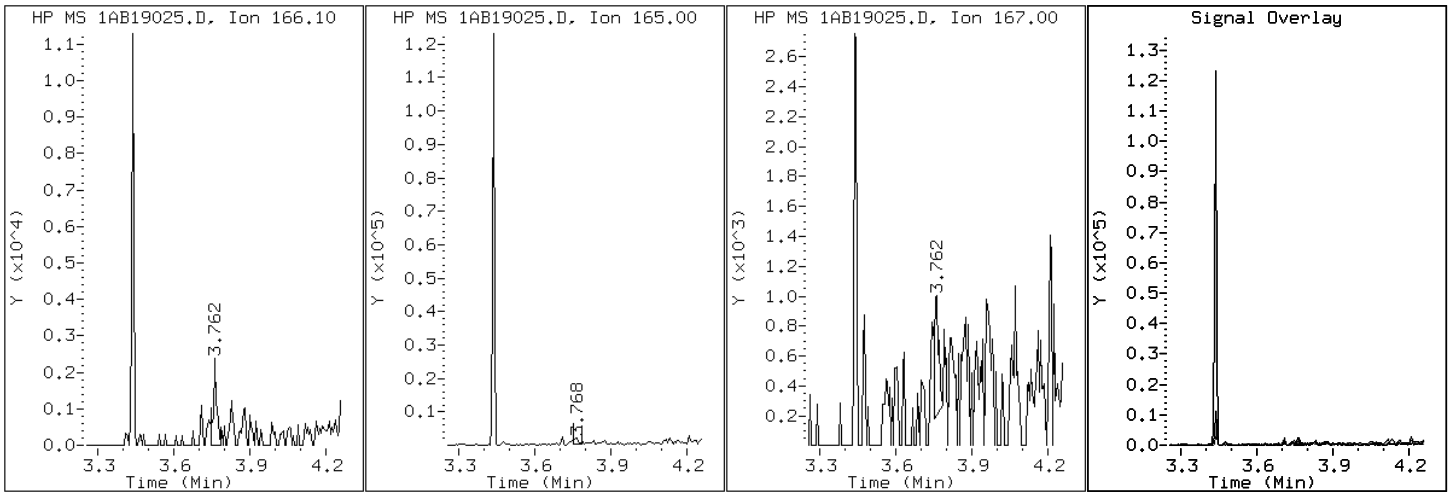
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

9 Fluorene



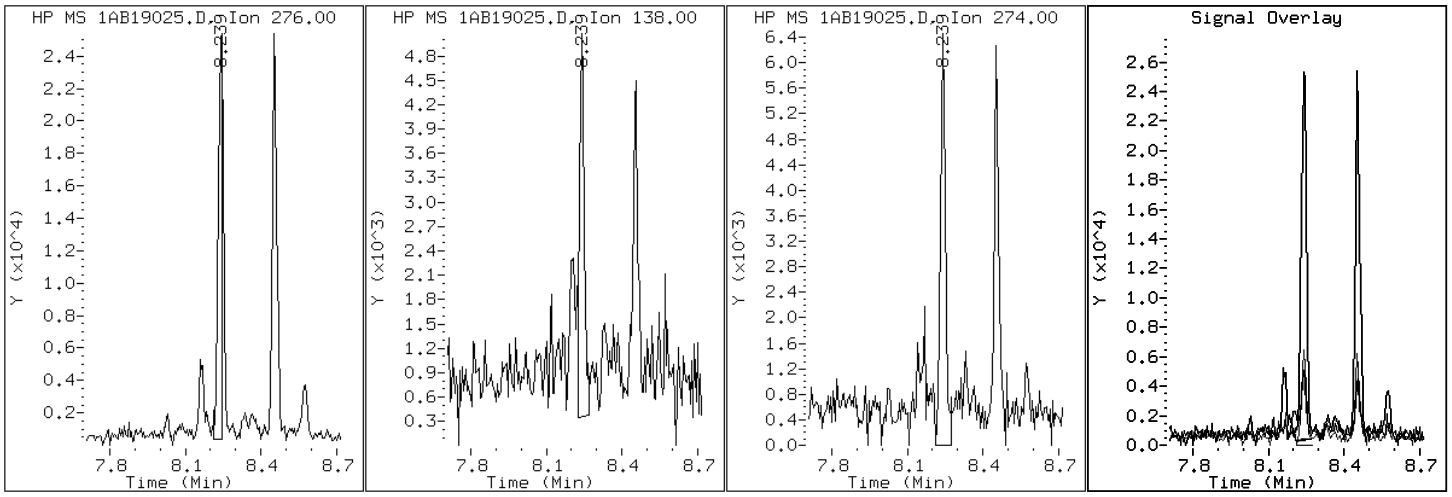
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

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



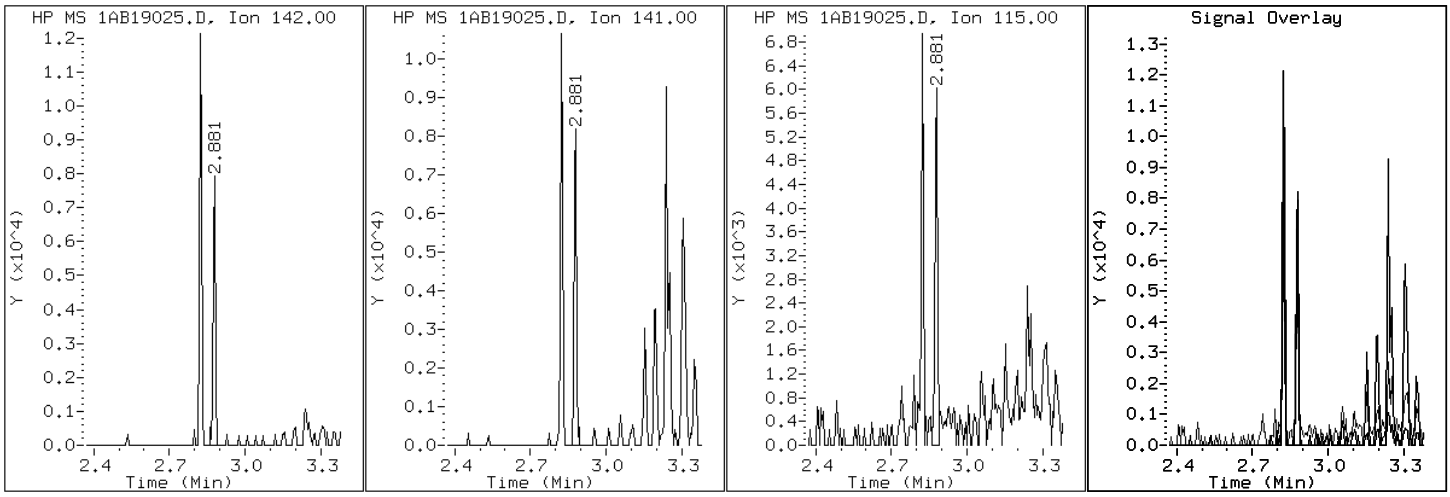
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

4 1-Methylnaphthalene



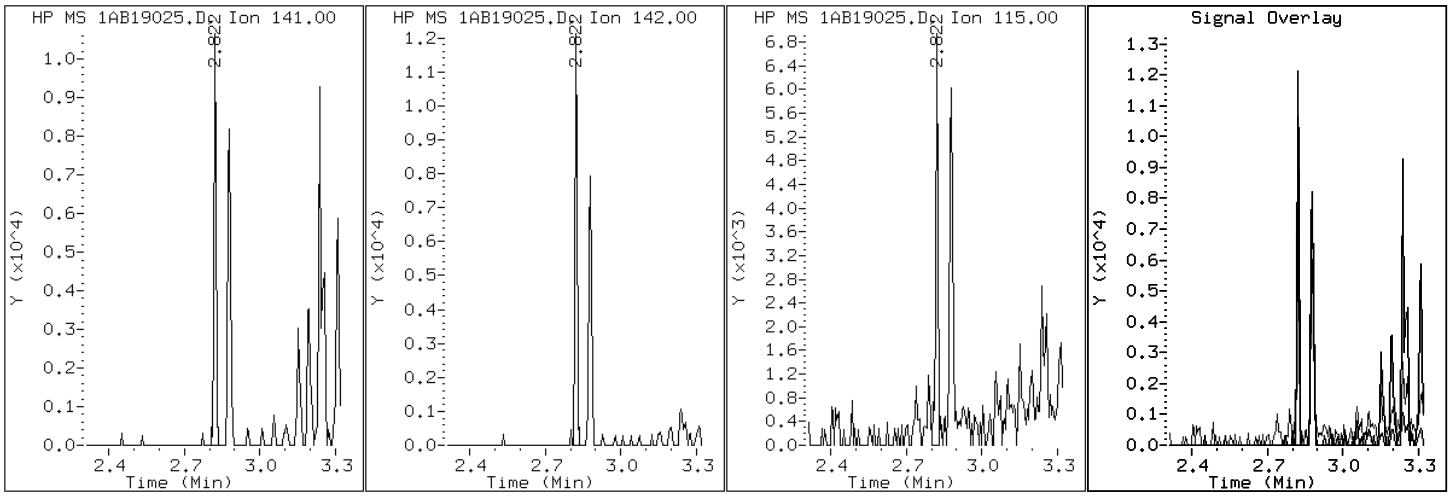
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

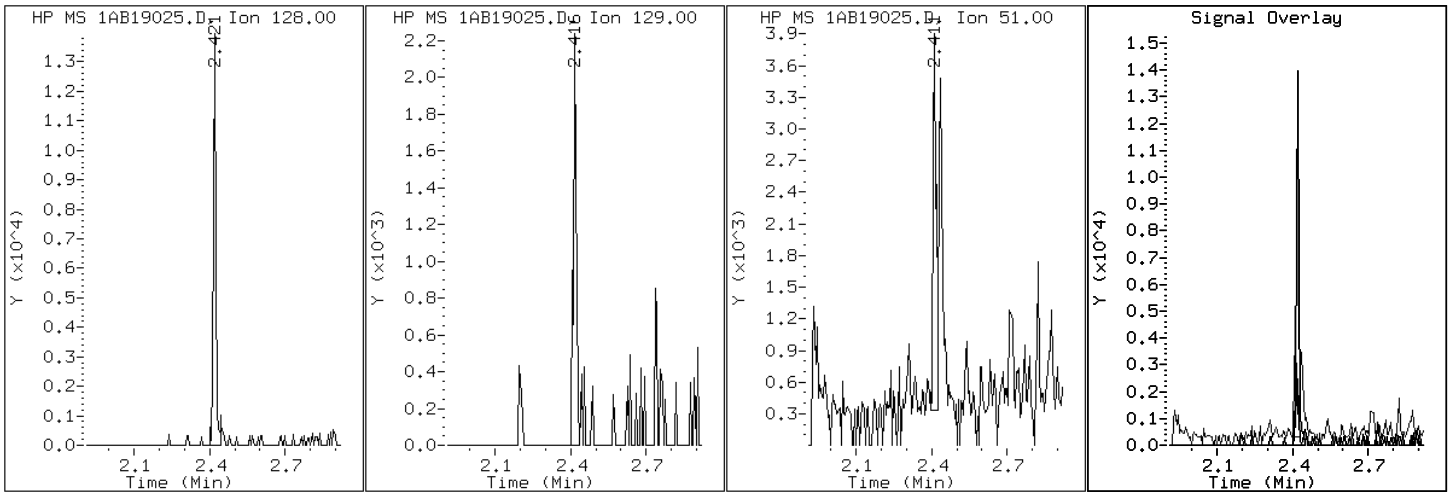
Client ID: CV0748AA-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a

Operator: SCC

2 Naphthalene



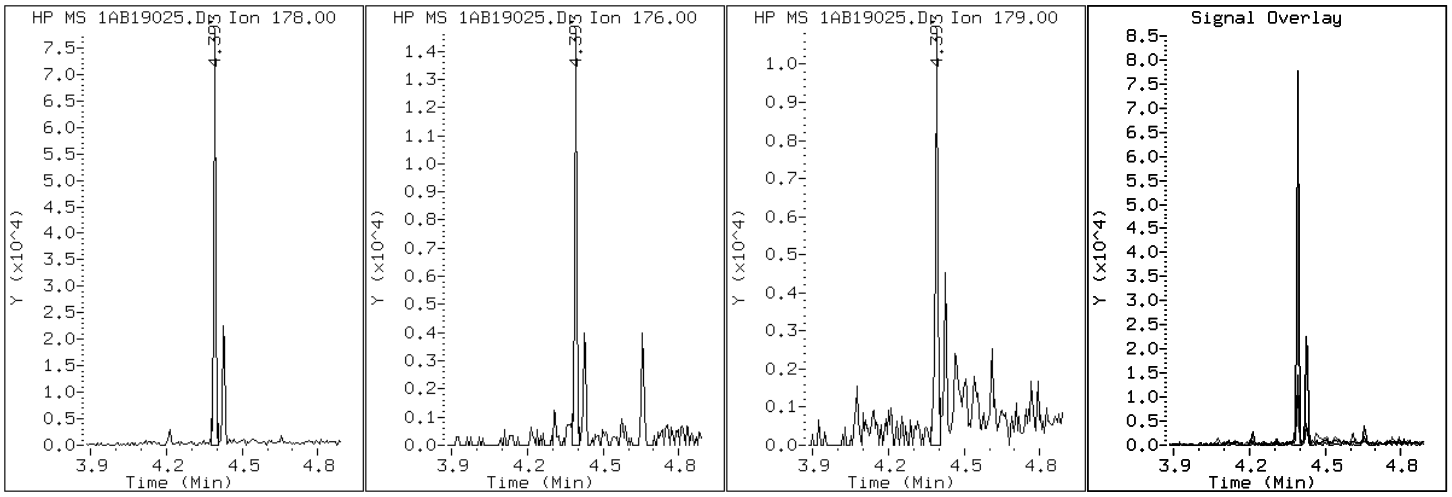
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

11 Phenanthrene



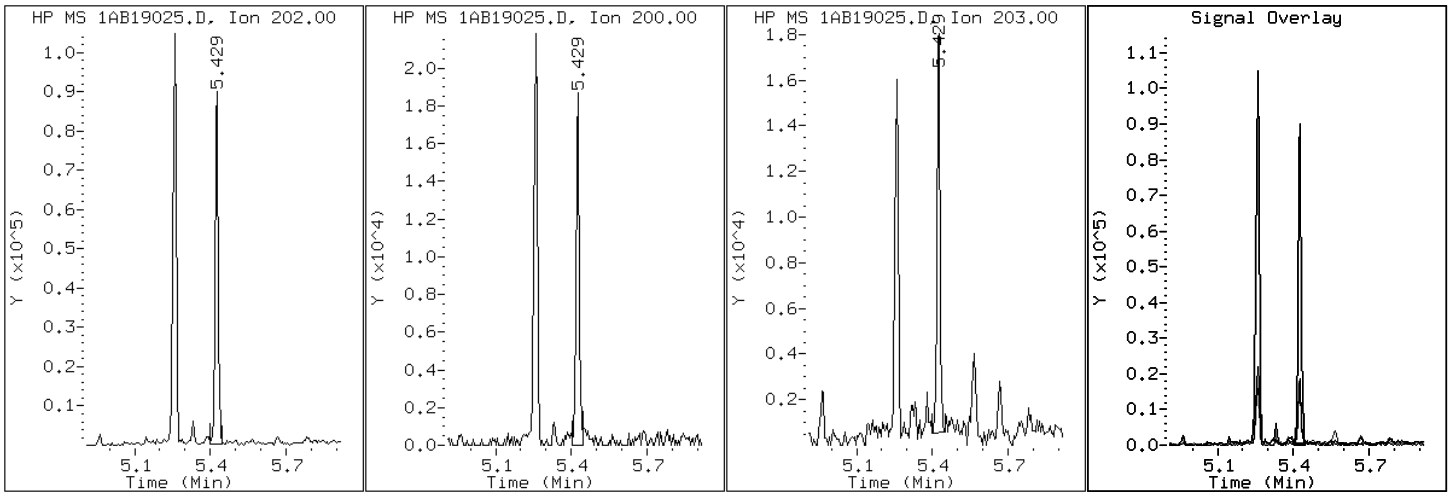
Data File: 1AB19025.D

Date: 19-FEB-2013 17:58

Client ID: CV0748AA-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-9-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB19025.D
Inj. Date and Time: 19-FEB-2013 17:58
Instrument ID: BSMA5973.i
Client ID: CV0748AA-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

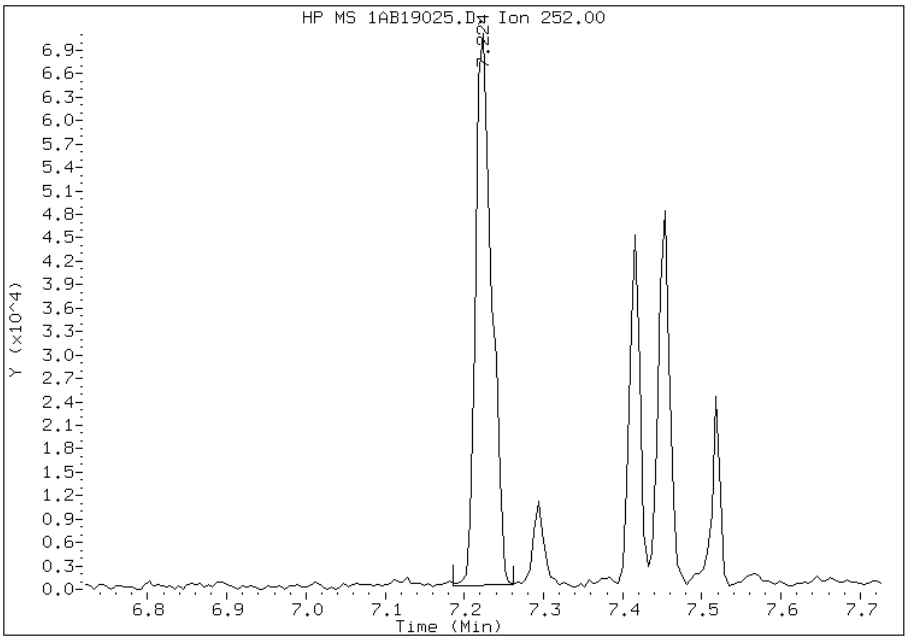
Processing Integration Results

RT: 7.22

Response: 99235

Amount: 4

Conc: 345



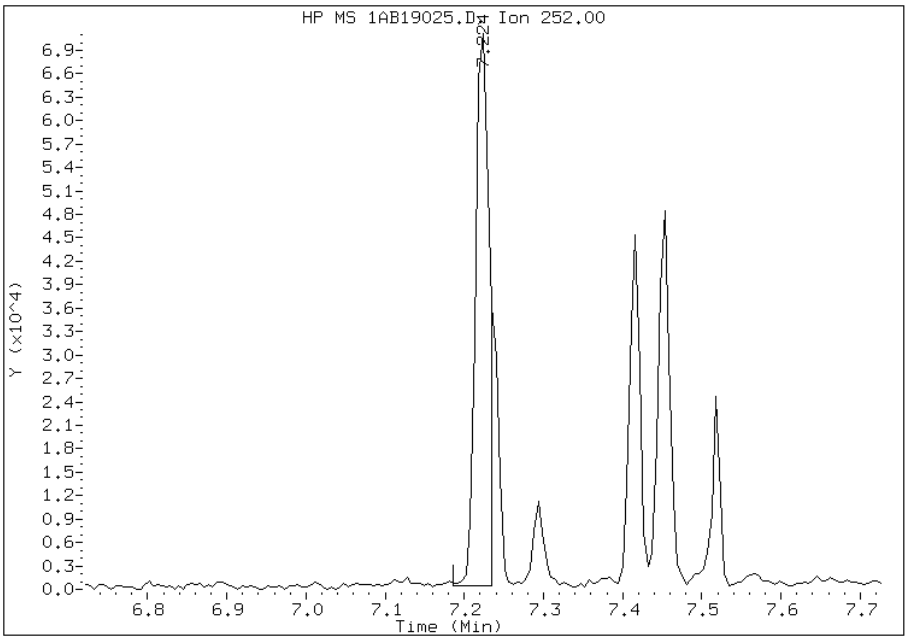
Manual Integration Results

RT: 7.22

Response: 84707

Amount: 4

Conc: 294



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:41
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19025.D
Inj. Date and Time: 19-FEB-2013 17:58
Instrument ID: BSMA5973.i
Client ID: CV0748AA-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

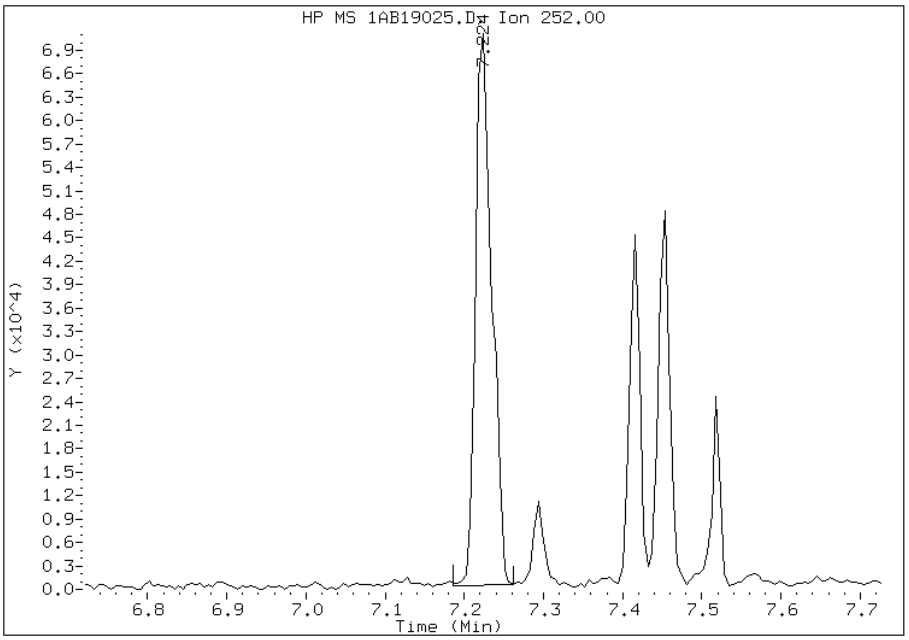
Processing Integration Results

RT: 7.22

Response: 98913

Amount: 4

Conc: 329



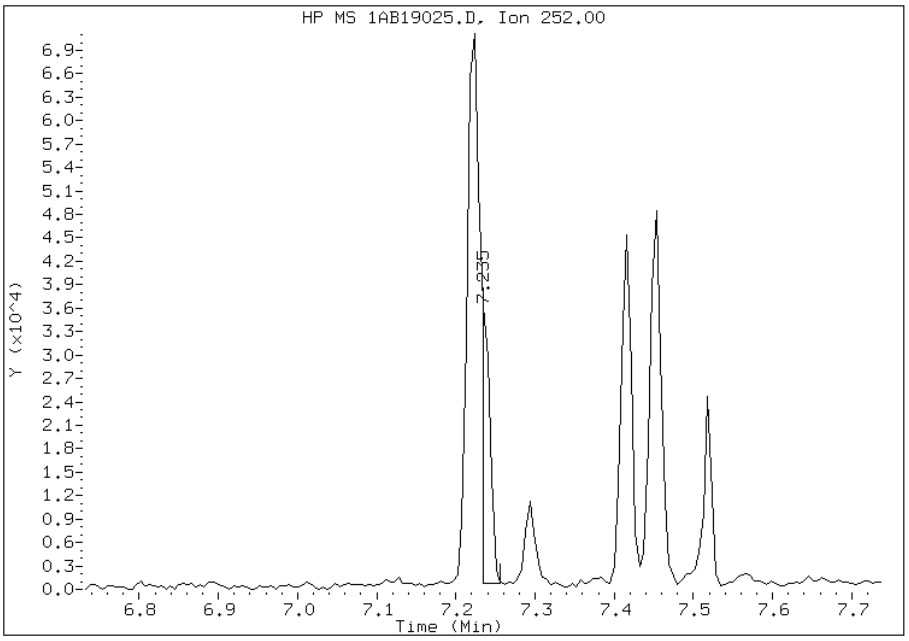
Manual Integration Results

RT: 7.23

Response: 25592

Amount: 1

Conc: 85



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19025.D
Inj. Date and Time: 19-FEB-2013 17:58
Instrument ID: BSMA5973.i
Client ID: CV0748AA-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

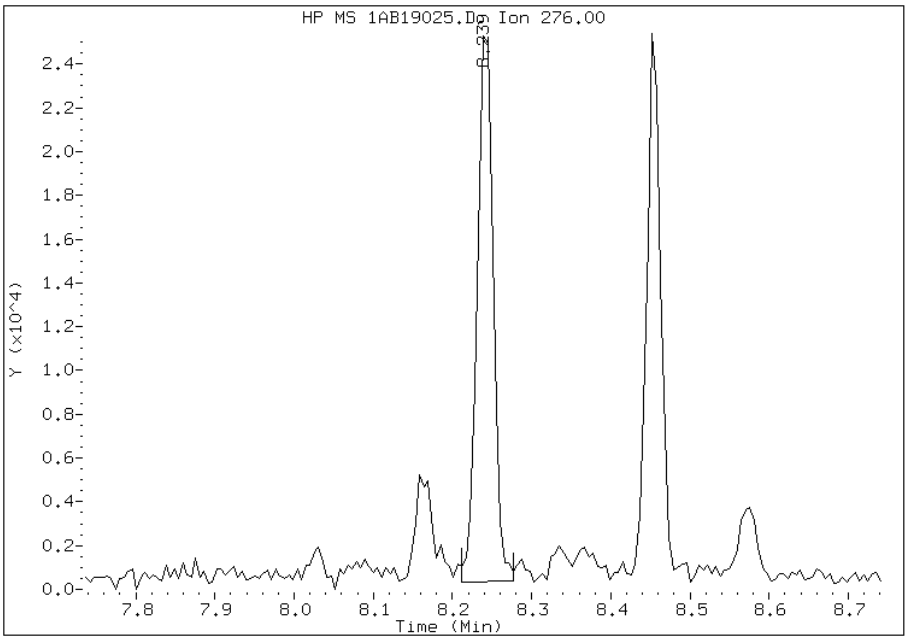
Processing Integration Results

RT: 8.24

Response: 34947

Amount: 2

Conc: 162



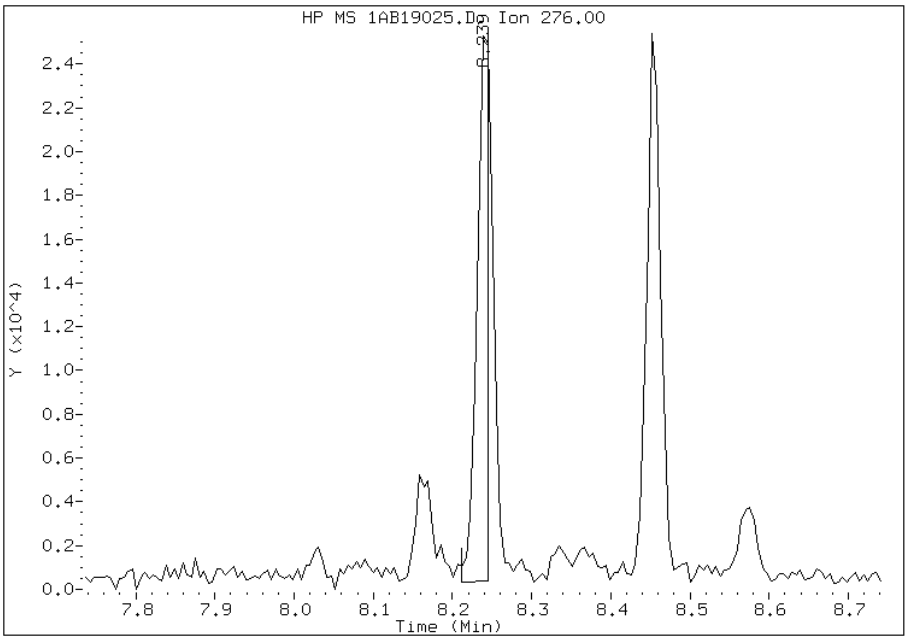
Manual Integration Results

RT: 8.24

Response: 25301

Amount: 1

Conc: 117



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748BB-CS | Lab Sample ID: 680-87320-10

Matrix: Solid | Lab File ID: 1AB19026.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:24

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 15.11(g) | Date Analyzed: 02/19/2013 18:13

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

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

% Moisture: 18.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	65	J	200	24
120-12-7	Anthracene	94		41	20
56-55-3	Benzo[a]anthracene	390		39	19
50-32-8	Benzo[a]pyrene	200		51	25
205-99-2	Benzo[b]fluoranthene	350		60	30
191-24-2	Benzo[g,h,i]perylene	220		98	21
207-08-9	Benzo[k]fluoranthene	110		39	18
218-01-9	Chrysene	320		44	22
53-70-3	Dibenz(a,h)anthracene	81	J	98	20
206-44-0	Fluoranthene	480		98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	210		98	35
90-12-0	1-Methylnaphthalene	110	J	200	21
91-57-6	2-Methylnaphthalene	140	J	200	35
91-20-3	Naphthalene	110	J	200	21
85-01-8	Phenanthrene	270		39	19
129-00-0	Pyrene	330		98	18

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\BSMA5973.i\1A021913.b\1AB19026.D
Lab Smp Id: 680-87320-A-10-A Client Smp ID: CV0748BB-CS
Inj Date : 19-FEB-2013 18:13
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-10-a
Misc Info : 680-87320-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 26
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	18.634	% 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	2.413	2.405	(1.000)	695468	40.0000	
* 6 Acenaphthene-d10	164	3.438	3.431	(1.000)	513846	40.0000	
* 10 Phenanthrene-d10	188	4.379	4.371	(1.000)	722198	40.0000	
$ 14 o-Terphenyl	230	4.656	4.649	(1.063)	17638	1.68078	546.8463
* 18 Chrysene-d12	240	6.403	6.390	(1.000)	625105	40.0000	
* 23 Perylene-d12	264	7.504	7.480	(1.000)	777480	40.0000	
2 Naphthalene	128	2.418	2.416	(1.002)	5705	0.33796	109.9564(Q)
3 2-Methylnaphthalene	141	2.824	2.816	(1.170)	3856	0.42639	138.7278
4 1-Methylnaphthalene	142	2.877	2.875	(1.193)	3531	0.34493	112.2225
5 Acenaphthylene	152	3.353	3.345	(0.975)	4508	0.19869	64.6432
11 Phenanthrene	178	4.395	4.387	(1.004)	16276	0.82539	268.5435
12 Anthracene	178	4.427	4.419	(1.011)	5781	0.28754	93.5529
13 Carbazole	167	4.587	4.574	(1.048)	2347	0.13619	44.3088
15 Fluoranthene	202	5.255	5.247	(1.200)	28742	1.47016	478.3195

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.426	5.413	(0.847)	23026	1.01995	331.8424
17 Benzo(a)anthracene	228	6.398	6.374	(0.999)	22339	1.19685	389.3987
19 Chrysene	228	6.419	6.406	(1.002)	17840	0.98060	319.0398
20 Benzo(b)fluoranthene	252	7.221	7.202	(0.962)	23239	1.07094	348.4323(M)
21 Benzo(k)fluoranthene	252	7.231	7.224	(0.964)	7879	0.34728	112.9885(QMH)
22 Benzo(a)pyrene	252	7.445	7.432	(0.992)	12916	0.62680	203.9303
24 Indeno(1,2,3-cd)pyrene	276	8.236	8.212	(1.098)	10342	0.63560	206.7927(M)
25 Dibenzo(a,h)anthracene	278	8.241	8.228	(1.098)	4045	0.24867	80.9049
26 Benzo(g,h,i)perylene	276	8.444	8.420	(1.125)	11262	0.66809	217.3639

QC Flag Legend

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

Data File: 1AB19026.D

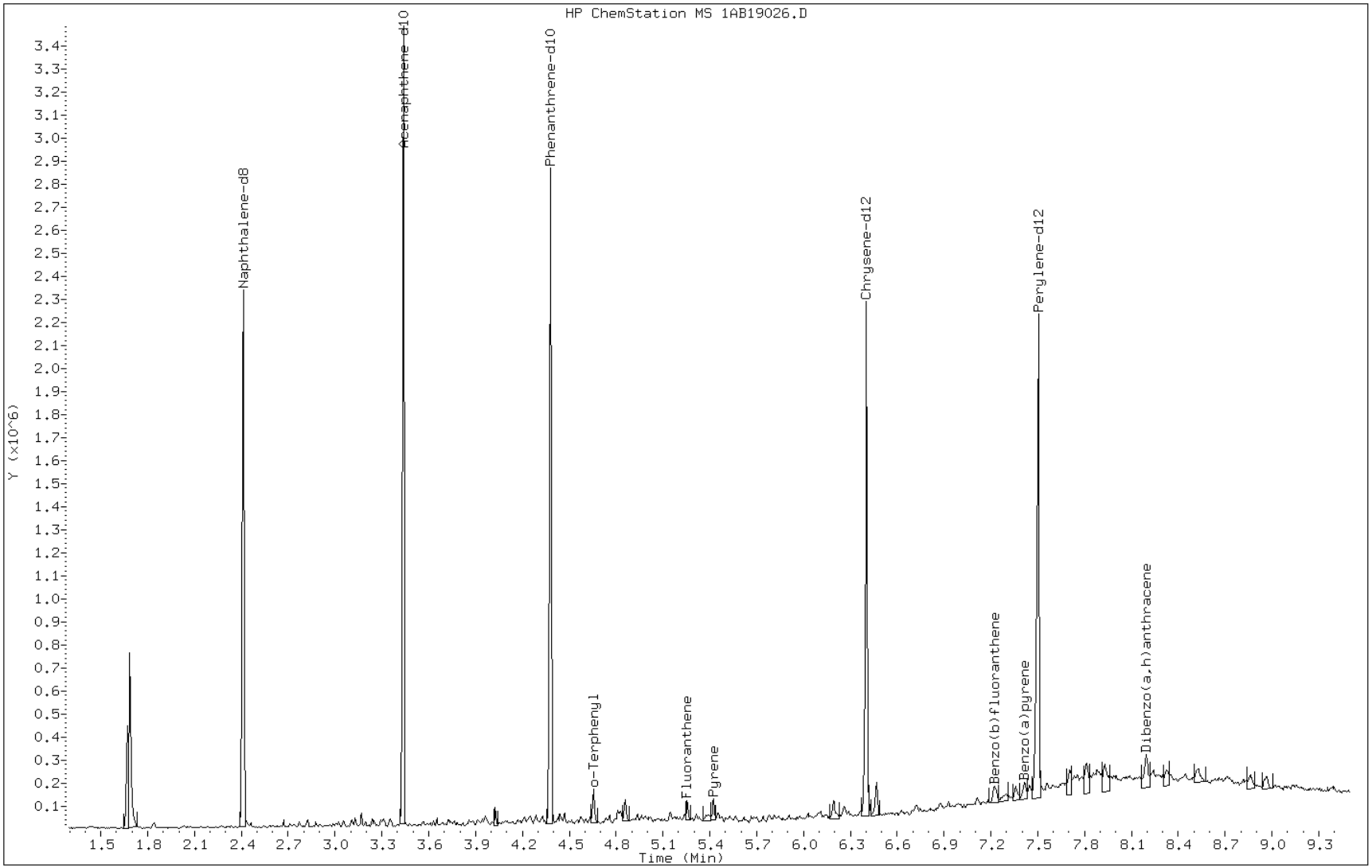
Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a

Operator: SCC



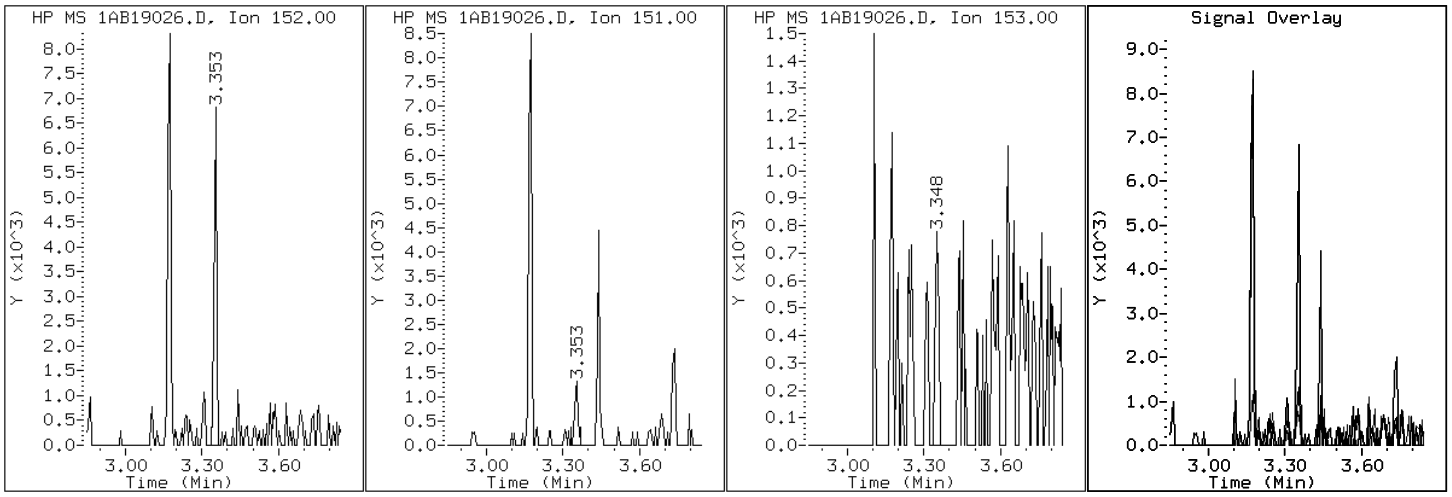
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

5 Acenaphthylene



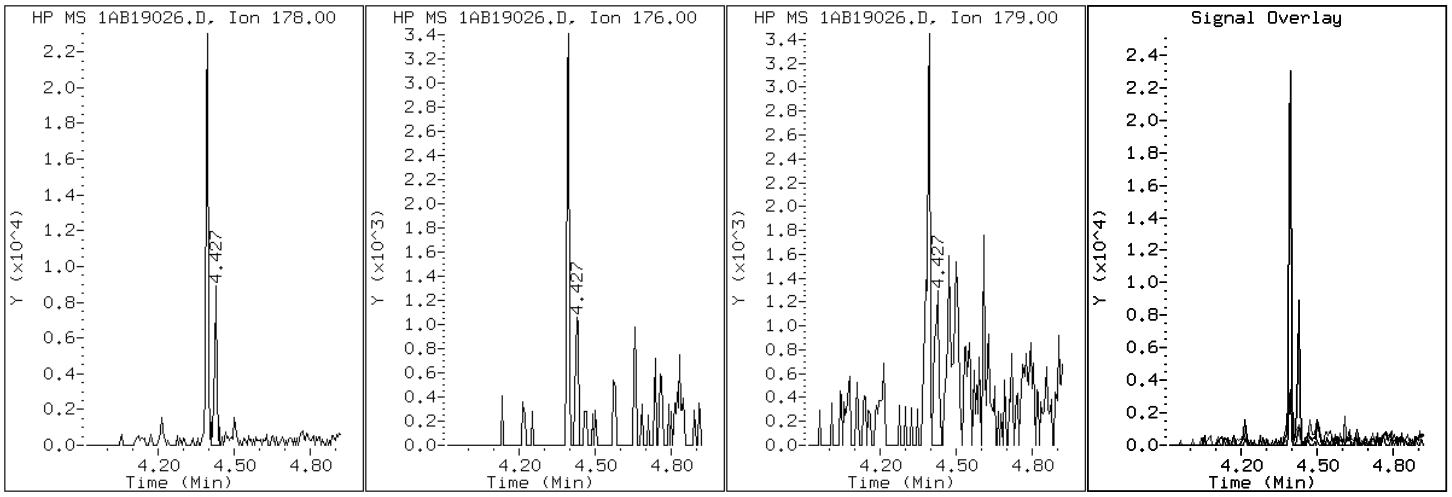
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

12 Anthracene



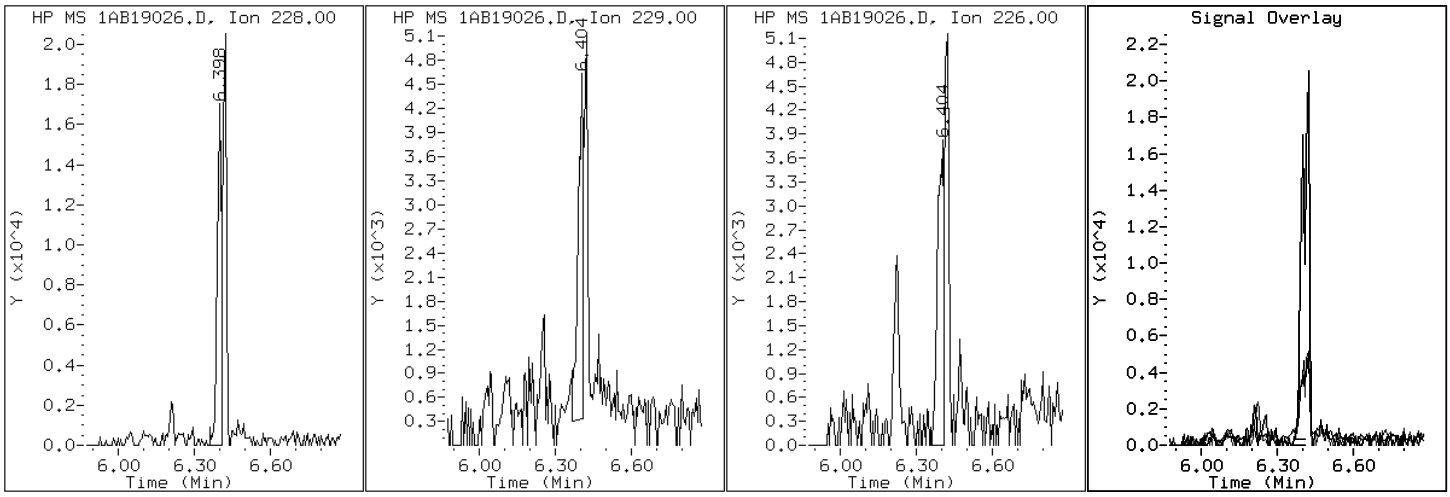
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

17 Benzo(a)anthracene



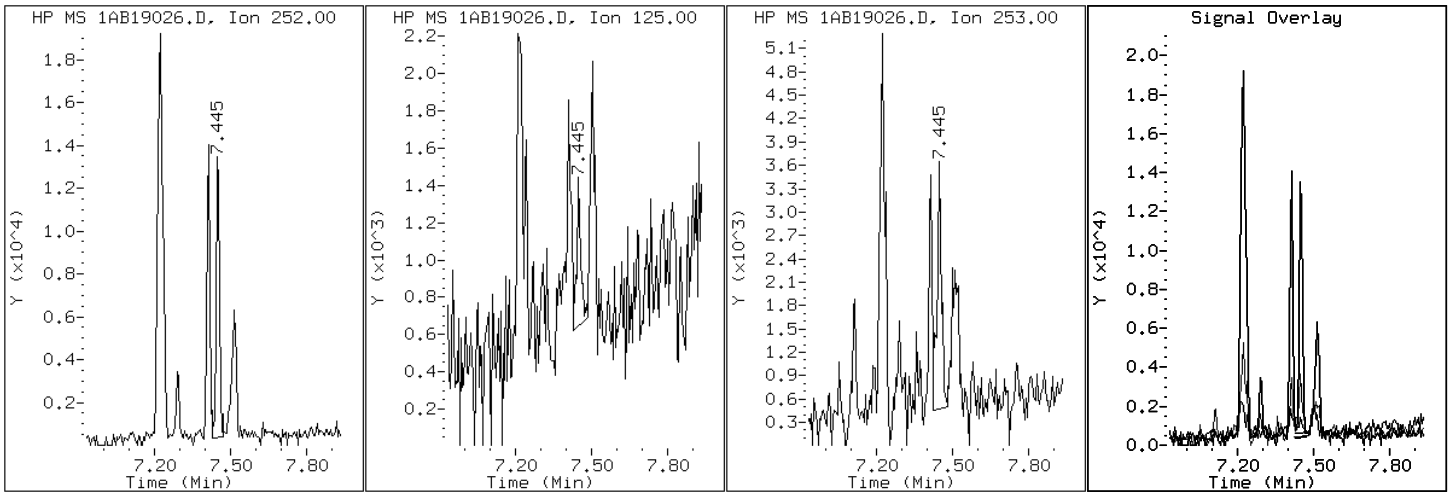
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

22 Benzo(a)pyrene



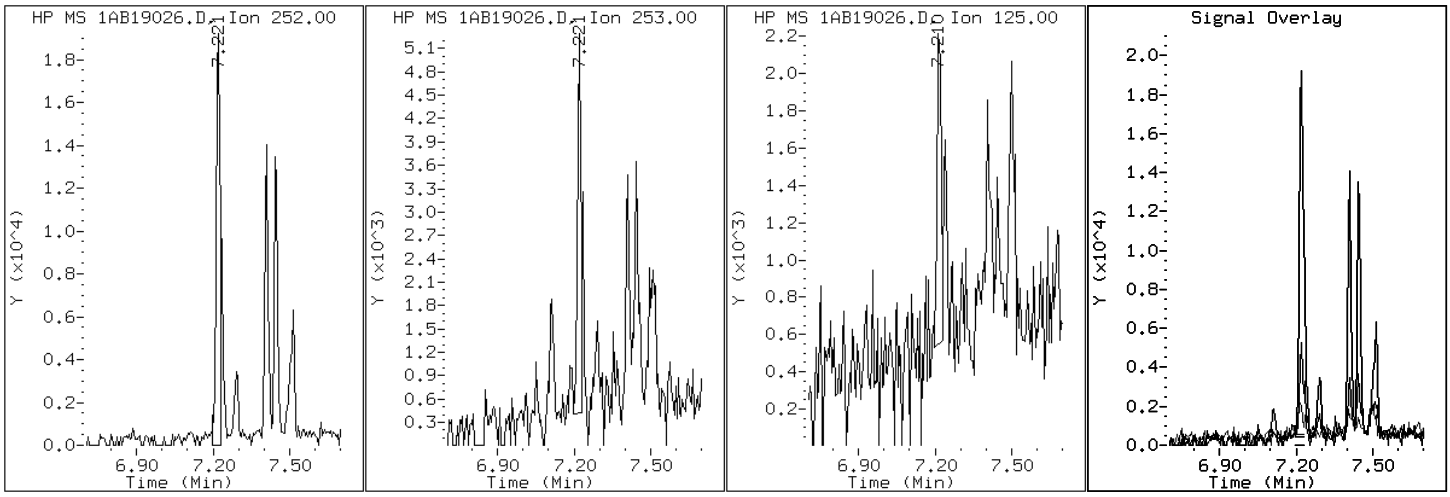
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

20 Benzo(b)fluoranthene



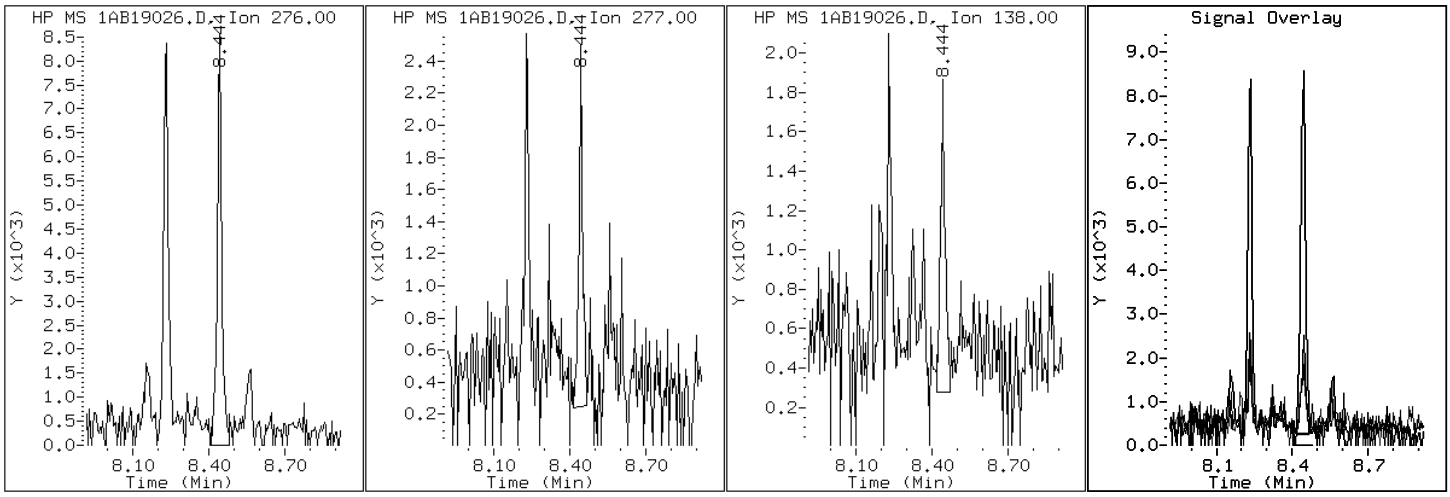
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

26 Benzo(g,h,i)perylene



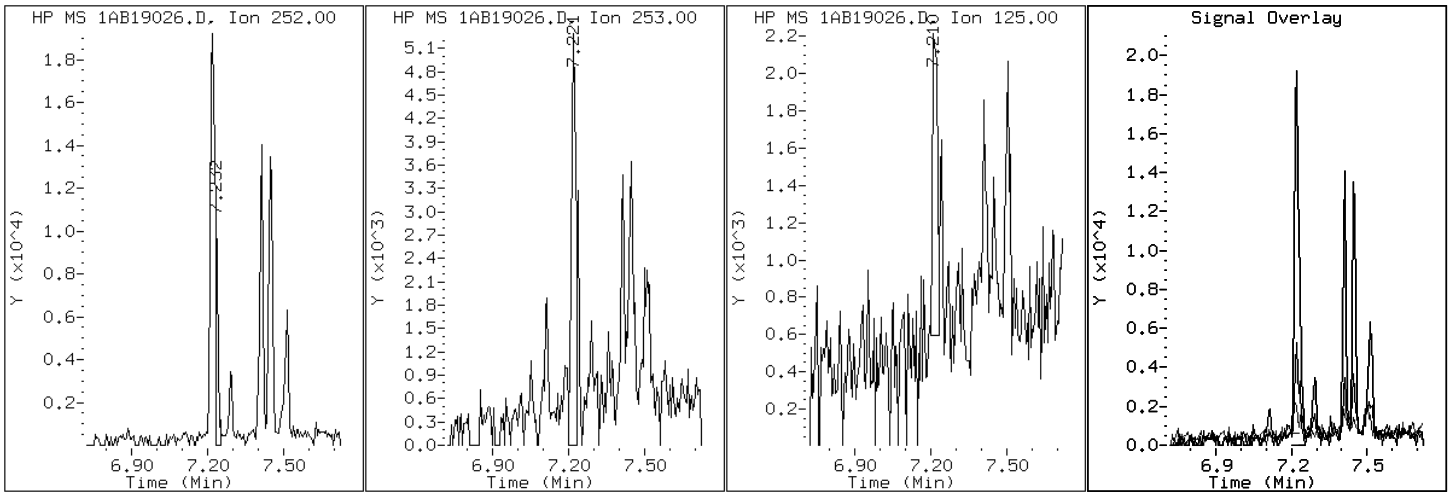
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

21 Benzo(k)fluoranthene



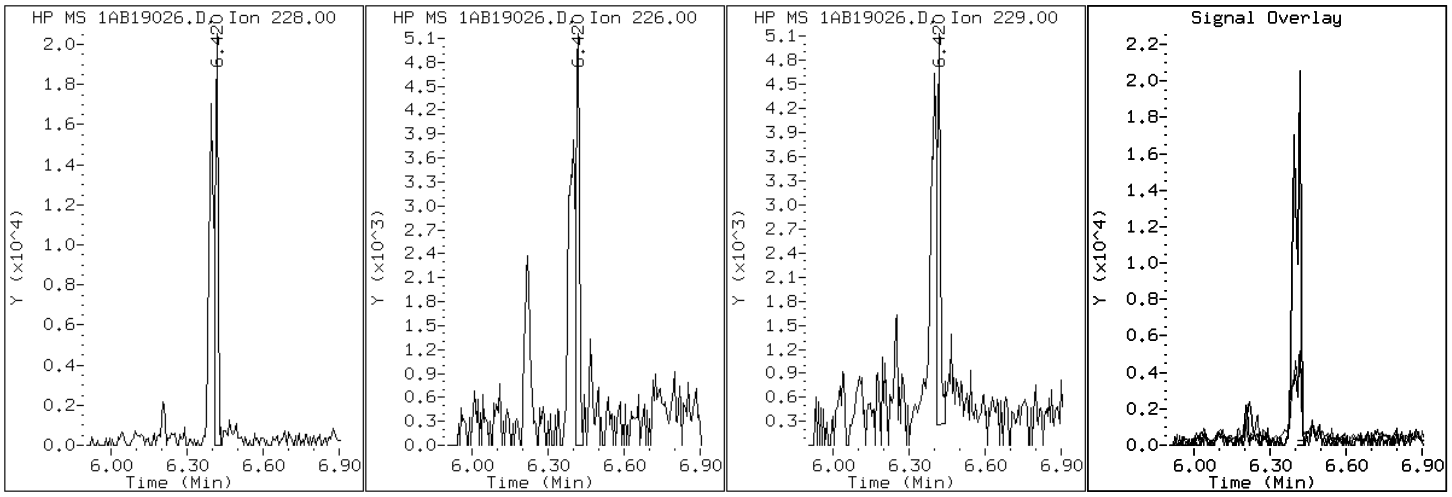
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

19 Chrysene



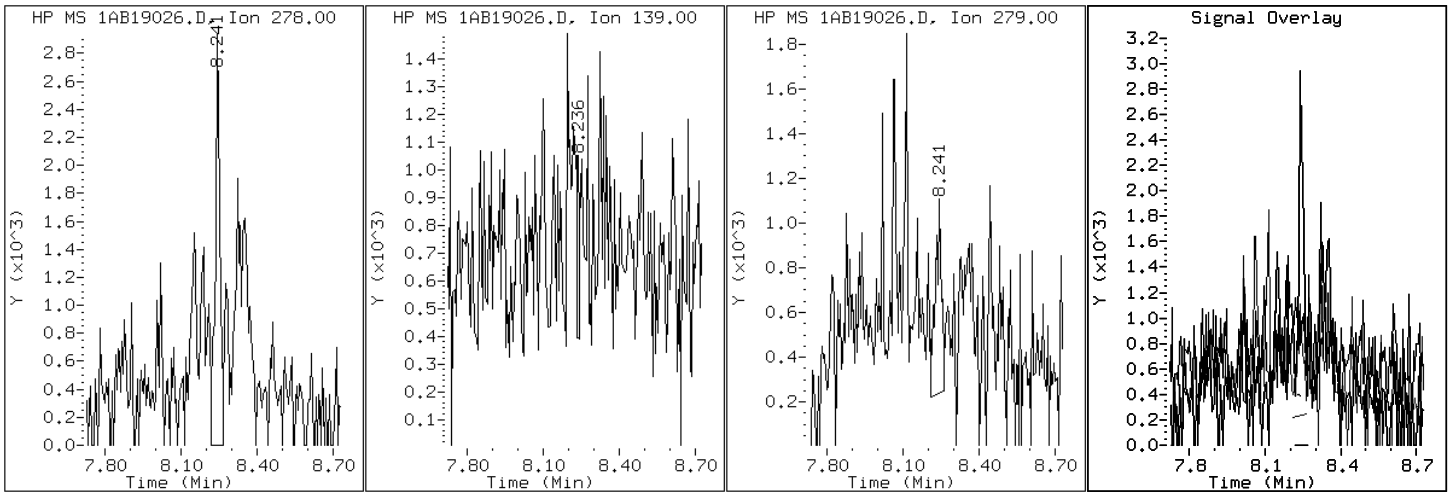
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

25 Dibenzo(a,h)anthracene



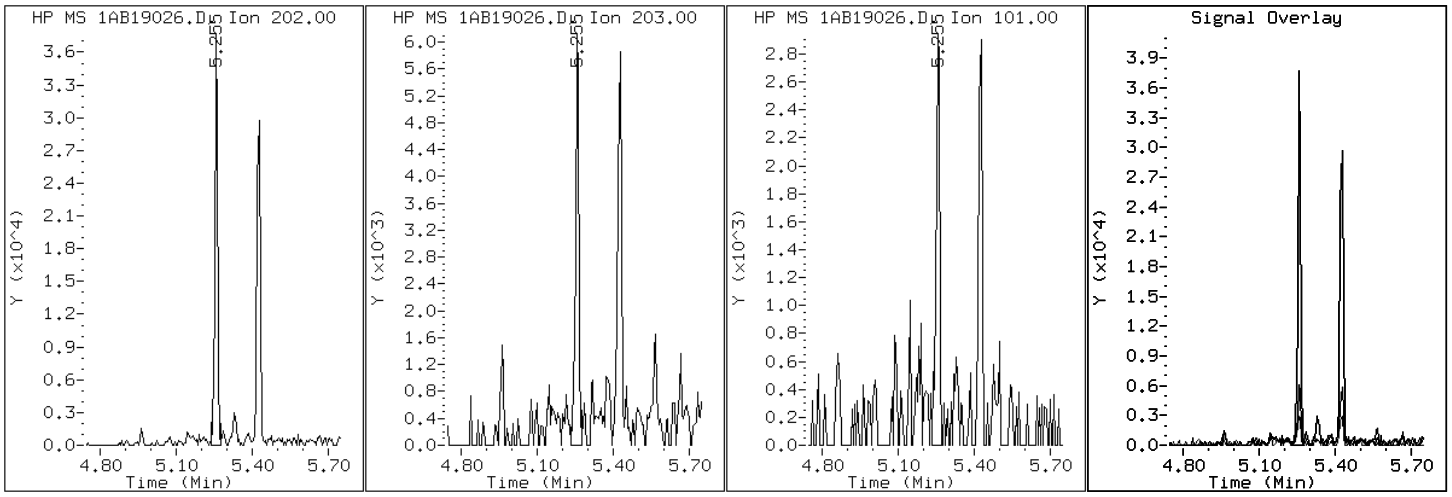
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

15 Fluoranthene



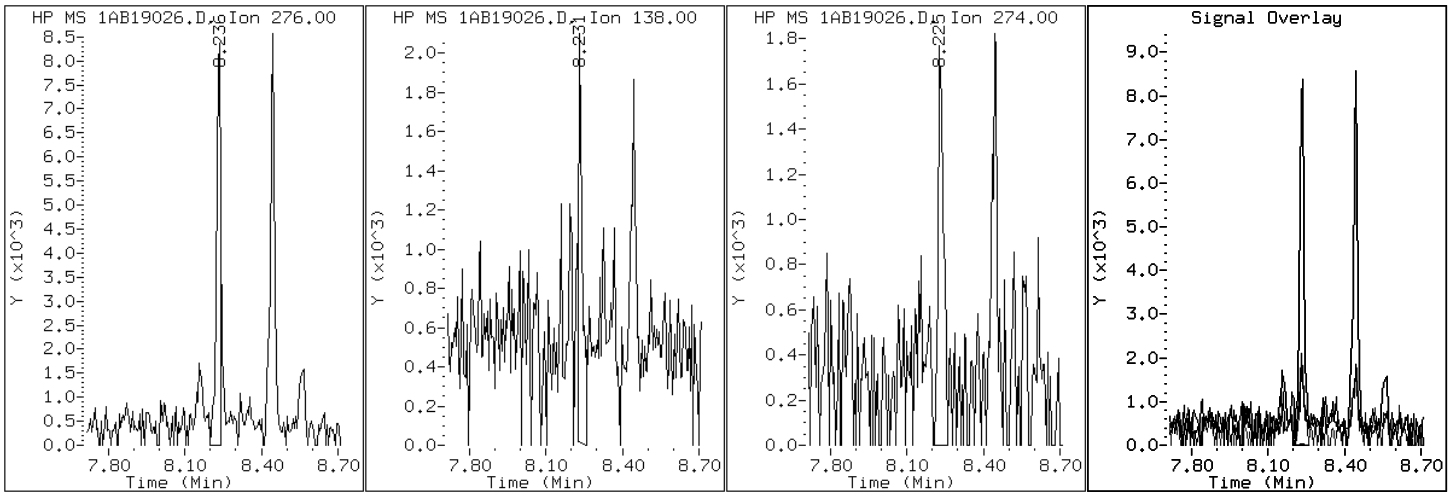
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

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



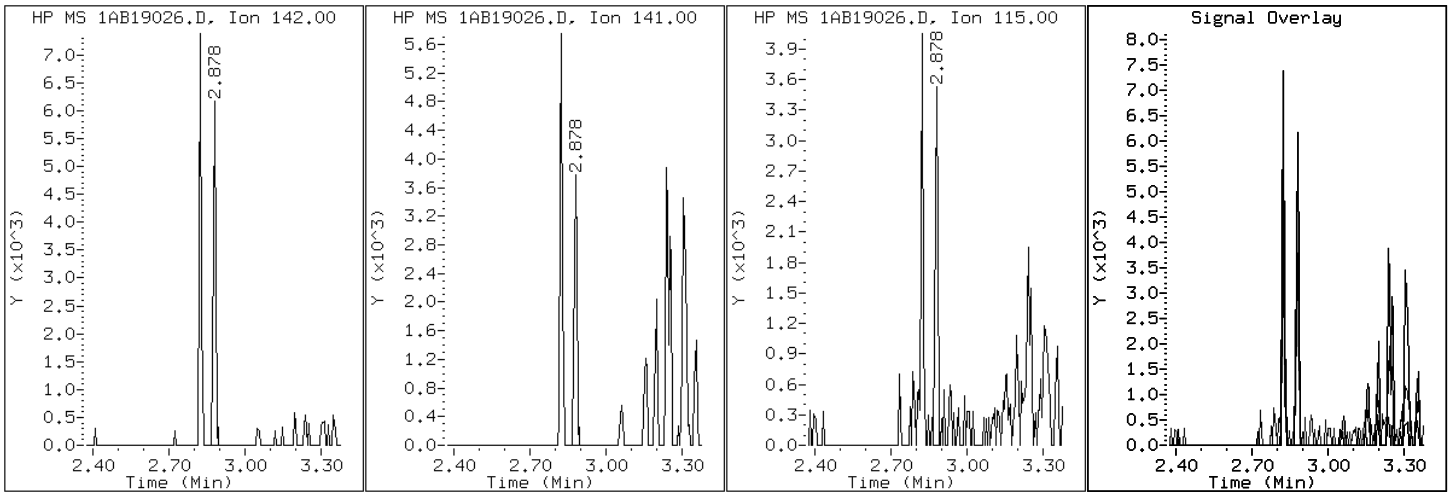
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

4 1-Methylnaphthalene



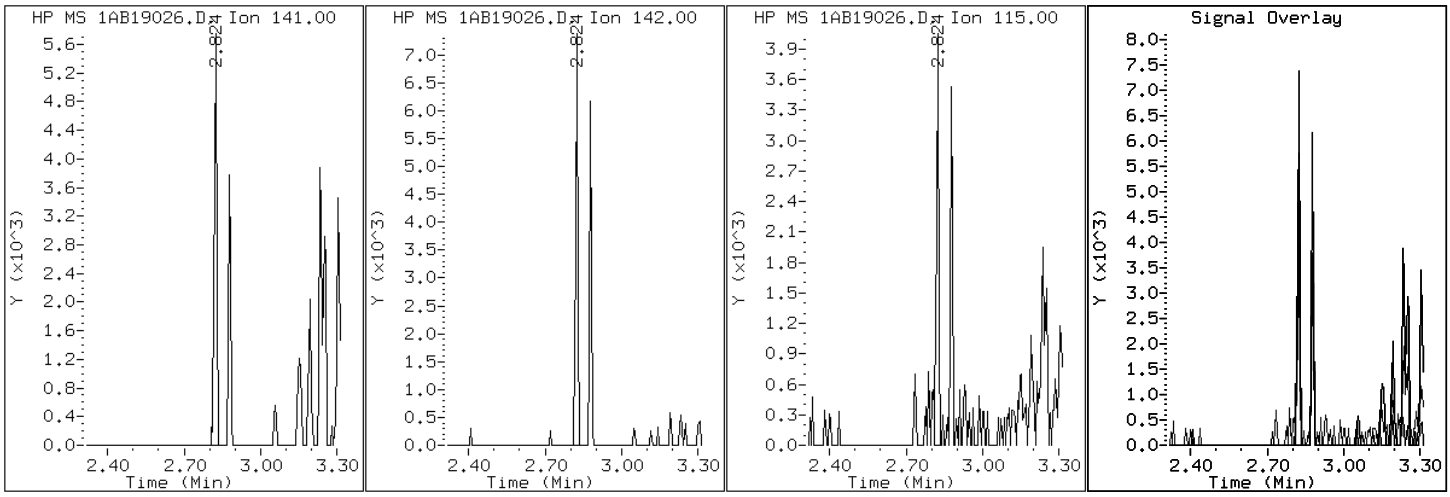
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

3 2-Methylnaphthalene



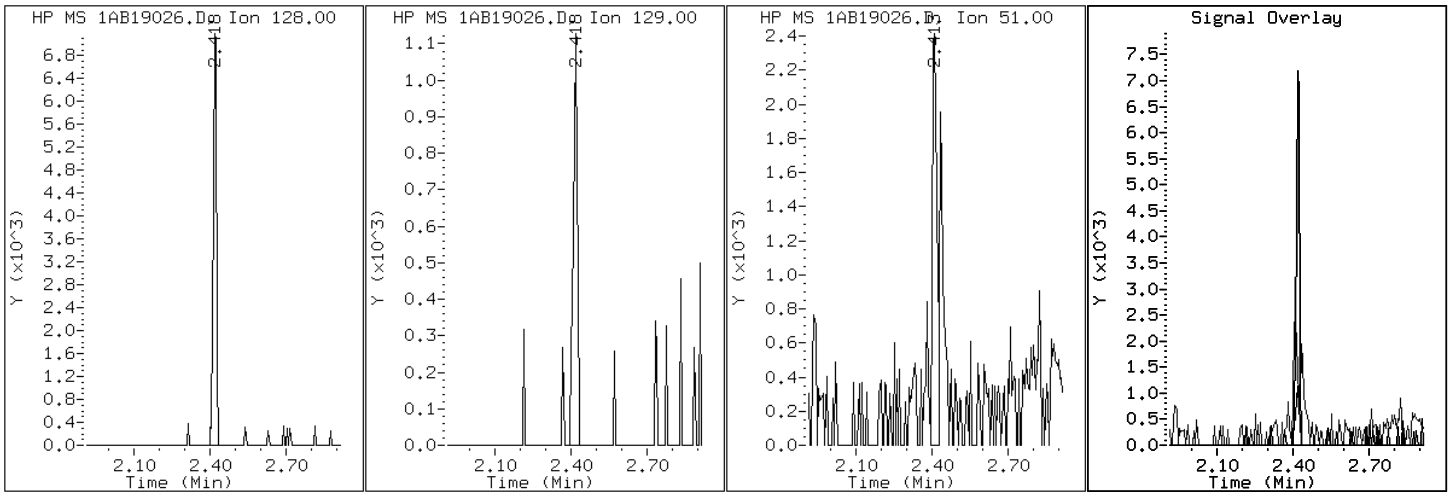
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

2 Naphthalene



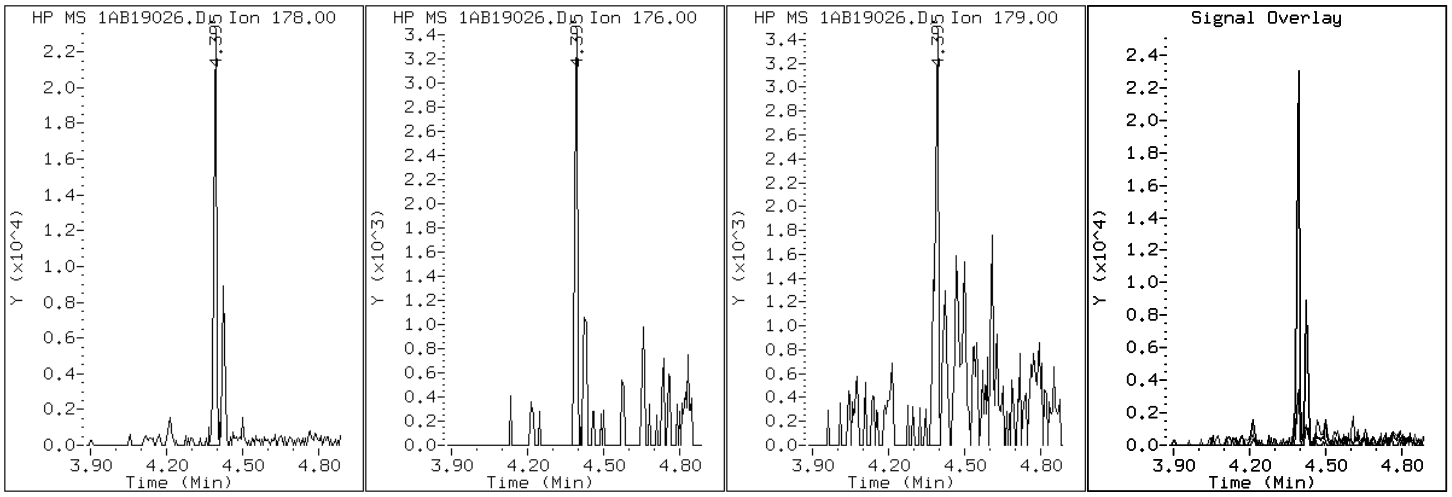
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

11 Phenanthrene



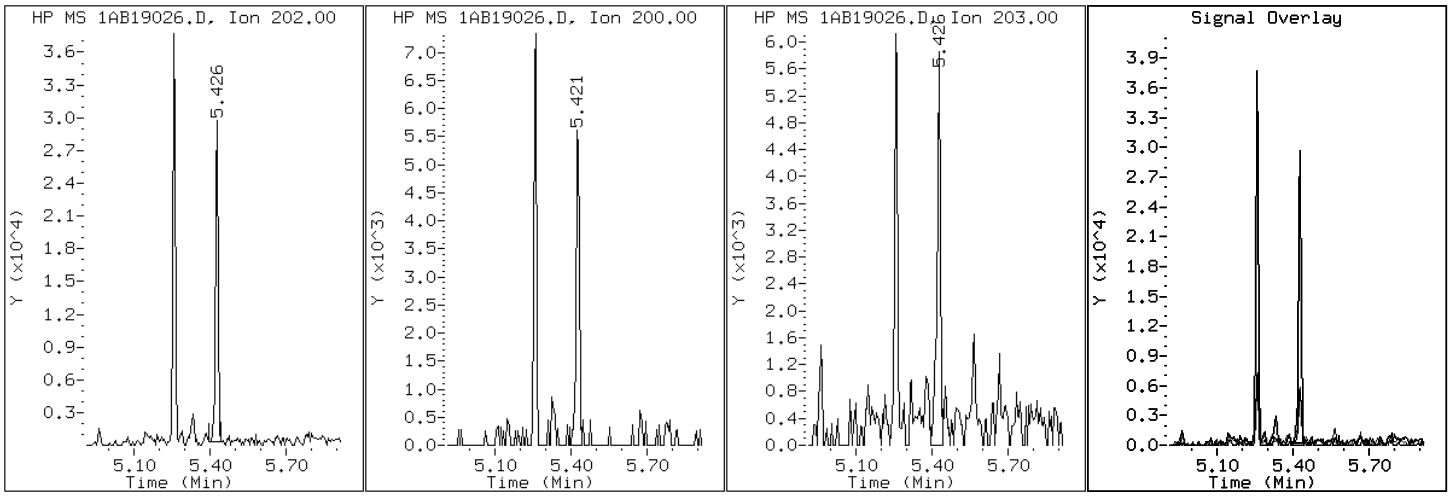
Data File: 1AB19026.D

Date: 19-FEB-2013 18:13

Client ID: CV0748BB-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-10-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB19026.D
Inj. Date and Time: 19-FEB-2013 18:13
Instrument ID: BSMA5973.i
Client ID: CV0748BB-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

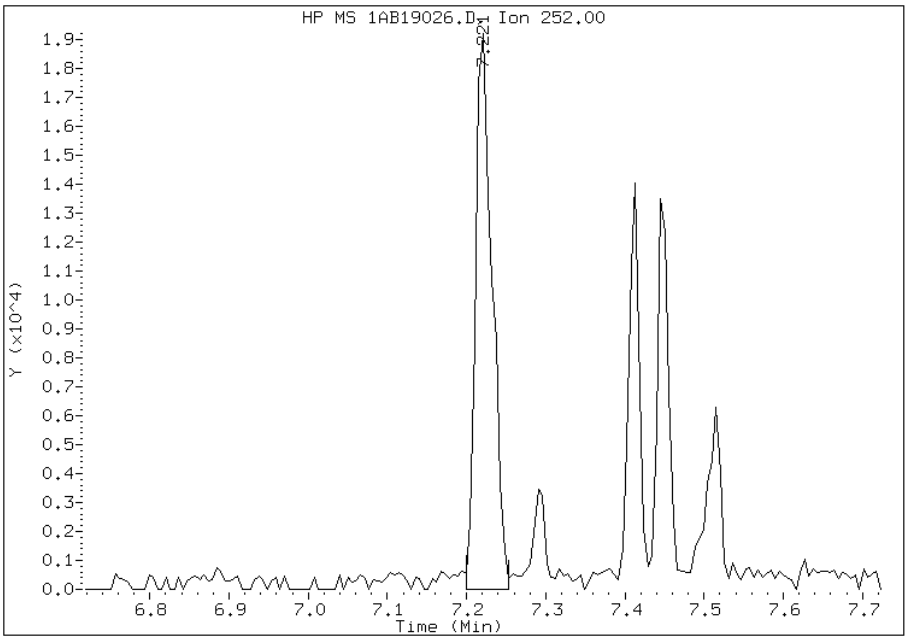
Processing Integration Results

RT: 7.22

Response: 27705

Amount: 1

Conc: 415



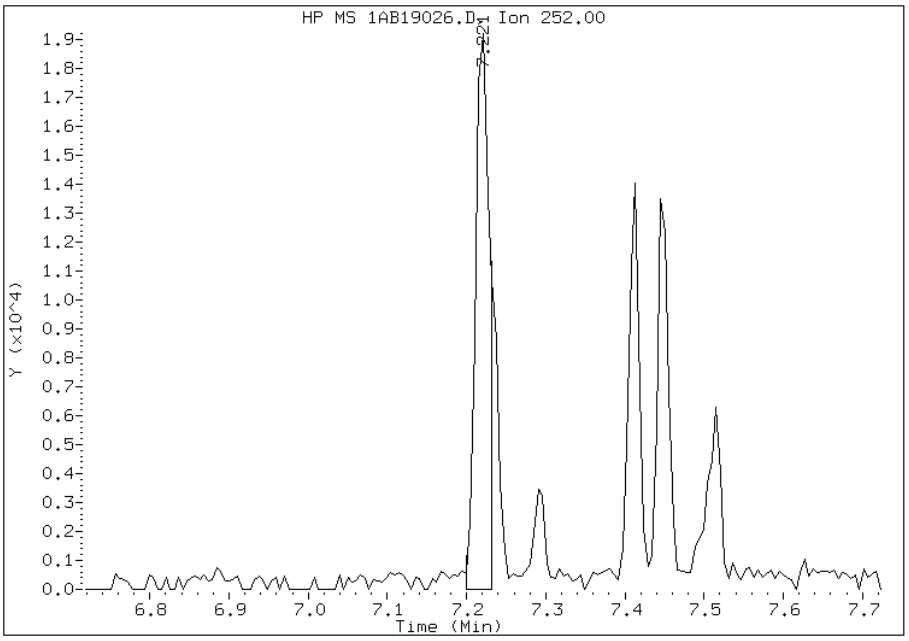
Manual Integration Results

RT: 7.22

Response: 23239

Amount: 1

Conc: 348



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19026.D
Inj. Date and Time: 19-FEB-2013 18:13
Instrument ID: BSMA5973.i
Client ID: CV0748BB-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

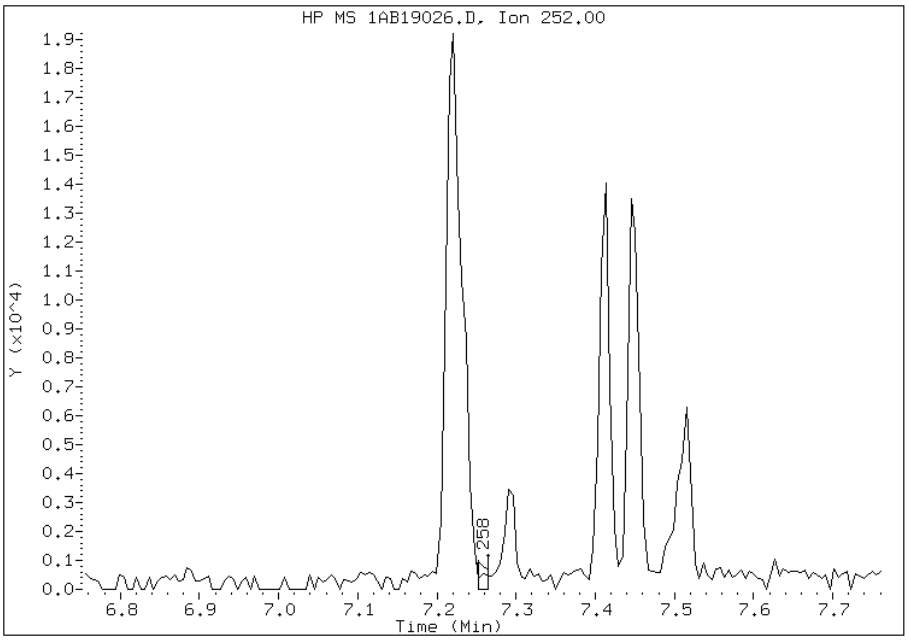
Processing Integration Results

RT: 7.26

Response: 428

Amount: 0

Conc: 6



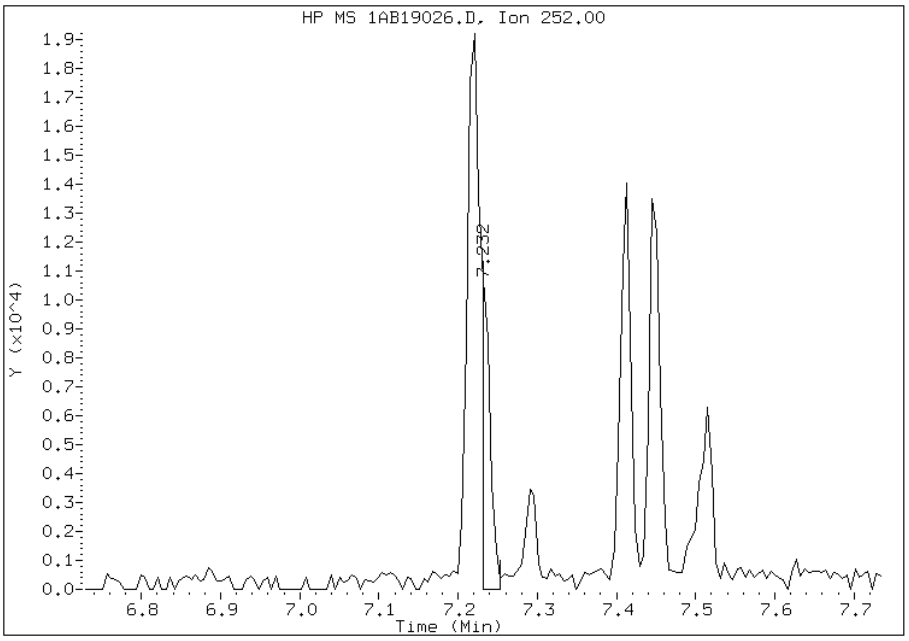
Manual Integration Results

RT: 7.23

Response: 7879

Amount: 0

Conc: 113



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19026.D
Inj. Date and Time: 19-FEB-2013 18:13
Instrument ID: BSMA5973.i
Client ID: CV0748BB-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

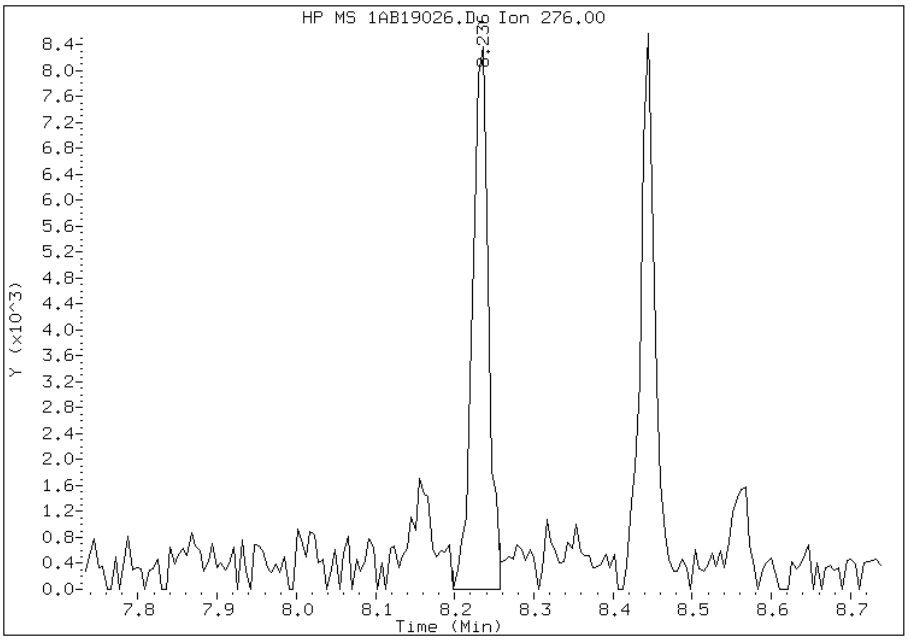
Processing Integration Results

RT: 8.24

Response: 11527

Amount: 1

Conc: 230



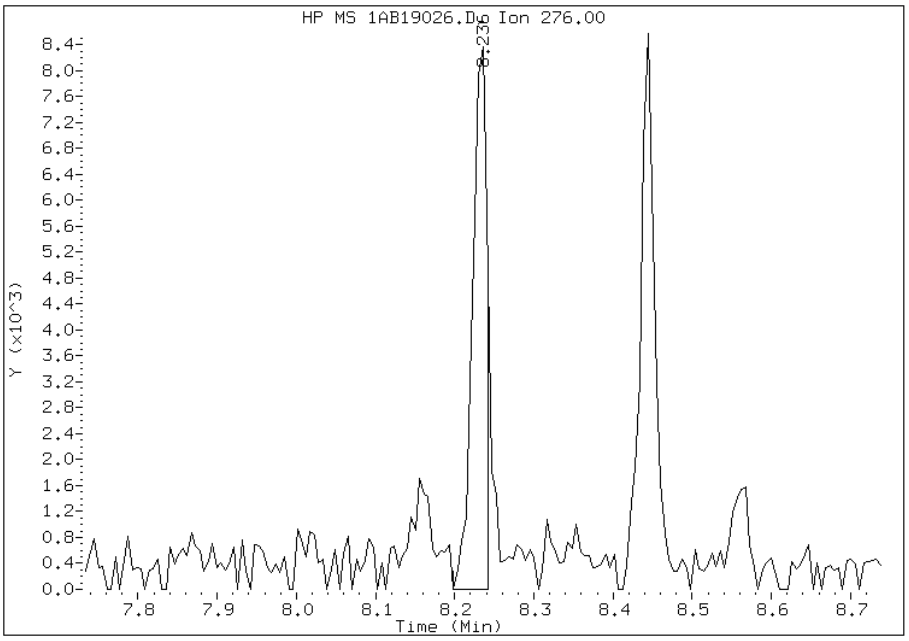
Manual Integration Results

RT: 8.24

Response: 10342

Amount: 1

Conc: 207



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748CC-CS | Lab Sample ID: 680-87320-11

Matrix: Solid | Lab File ID: 1AB19027.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:37

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 14.96(g) | Date Analyzed: 02/19/2013 18:28

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

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

% Moisture: 26.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	110	J	220	27
120-12-7	Anthracene	190		46	23
56-55-3	Benzo[a]anthracene	520		44	21
50-32-8	Benzo[a]pyrene	320		57	28
205-99-2	Benzo[b]fluoranthene	660		67	33
191-24-2	Benzo[g,h,i]perylene	300		110	24
207-08-9	Benzo[k]fluoranthene	150		44	20
218-01-9	Chrysene	510		49	25
53-70-3	Dibenz(a,h)anthracene	130		110	22
206-44-0	Fluoranthene	630		110	22
86-73-7	Fluorene	33	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	240		110	39
90-12-0	1-Methylnaphthalene	160	J	220	24
91-57-6	2-Methylnaphthalene	170	J	220	39
91-20-3	Naphthalene	140	J	220	24
85-01-8	Phenanthrene	430		44	21
129-00-0	Pyrene	460		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\1AB19027.D
Lab Smp Id: 680-87320-A-11-A Client Smp ID: CV0748CC-CS
Inj Date : 19-FEB-2013 18:28
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-11-a
Misc Info : 680-87320-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 27
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	26.816	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.410	2.405	(1.000)	710373	40.0000	
* 6 Acenaphthene-d10	164	3.436	3.431	(1.000)	476371	40.0000	
* 10 Phenanthrene-d10	188	4.381	4.371	(1.000)	739448	40.0000	
$ 14 o-Terphenyl	230	4.654	4.649	(1.062)	20897	1.94489	710.5718
* 18 Chrysene-d12	240	6.406	6.390	(1.000)	640927	40.0000	
* 23 Perylene-d12	264	7.507	7.480	(1.000)	831740	40.0000	(H)
2 Naphthalene	128	2.421	2.416	(1.004)	6410	0.37176	135.8229
3 2-Methylnaphthalene	141	2.822	2.816	(1.171)	4268	0.46205	168.8111
4 1-Methylnaphthalene	142	2.880	2.875	(1.195)	4472	0.42768	156.2550
5 Acenaphthylene	152	3.350	3.345	(0.975)	6428	0.30560	111.6509
9 Fluorene	166	3.762	3.757	(1.095)	1303	0.09102	33.2552(Q)
11 Phenanthrene	178	4.392	4.387	(1.002)	23555	1.16666	426.2438
12 Anthracene	178	4.424	4.419	(1.010)	10591	0.51450	187.9746
13 Carbazole	167	4.584	4.574	(1.046)	4536	0.25707	93.9201

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.258	5.247	(1.200)	34360	1.71652	627.1369
16 Pyrene	202	5.423	5.413	(0.847)	29124	1.25822	459.6934
17 Benzo(a)anthracene	228	6.401	6.374	(0.999)	27089	1.41551	517.1631
19 Chrysene	228	6.422	6.406	(1.002)	26130	1.40081	511.7917
20 Benzo(b)fluoranthene	252	7.218	7.202	(0.962)	41656	1.79443	655.6011(MH)
21 Benzo(k)fluoranthene	252	7.234	7.224	(0.964)	10052	0.41416	151.3131(QM)
22 Benzo(a)pyrene	252	7.453	7.432	(0.993)	19134	0.86798	317.1177(H)
24 Indeno(1,2,3-cd)pyrene	276	8.238	8.212	(1.097)	11480	0.65951	240.9537(MH)
25 Dibenzo(a,h)anthracene	278	8.249	8.228	(1.099)	6198	0.35617	130.1275(H)
26 Benzo(g,h,i)perylene	276	8.458	8.420	(1.127)	14955	0.82929	302.9838(H)

QC Flag Legend

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

Data File: 1AB19027.D

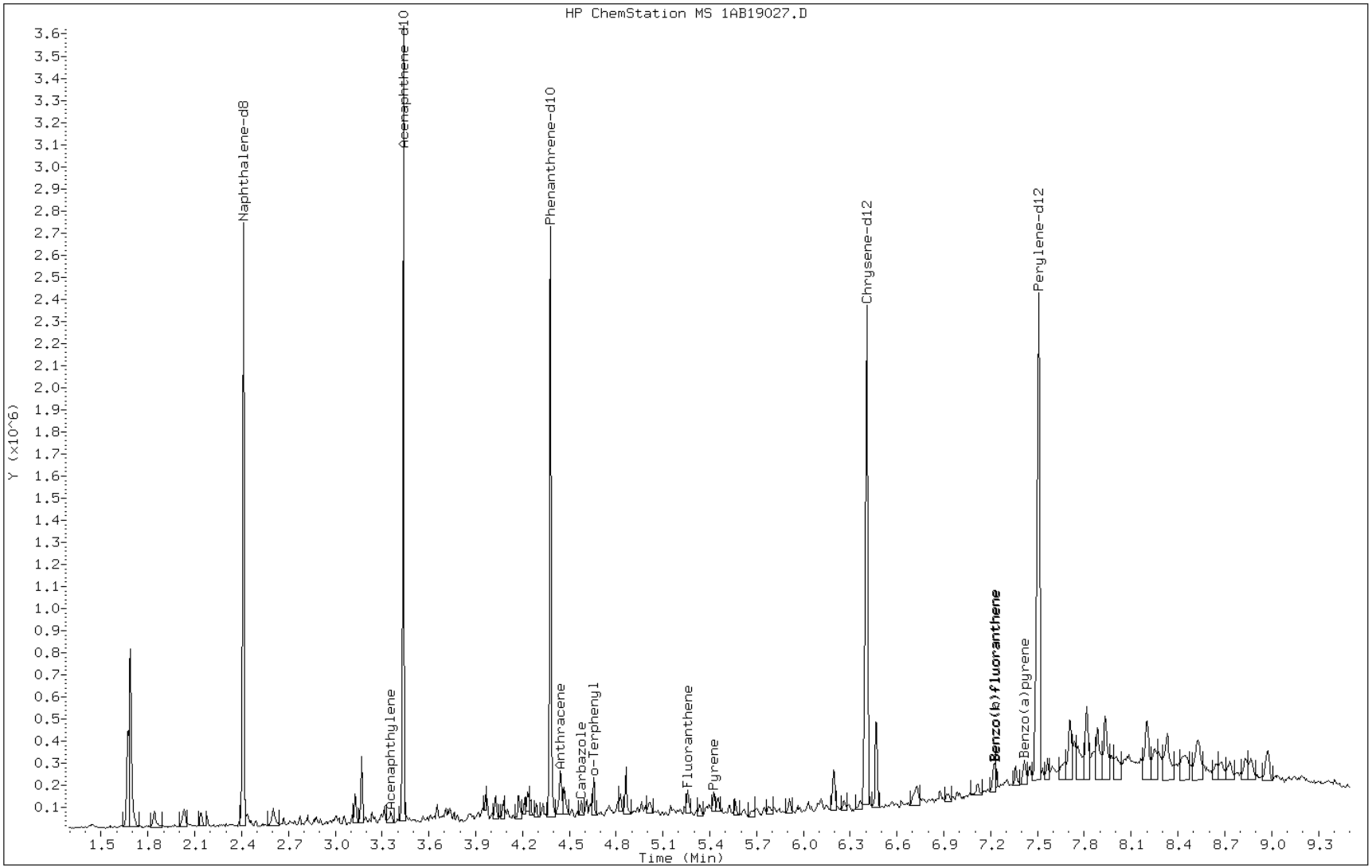
Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a

Operator: SCC



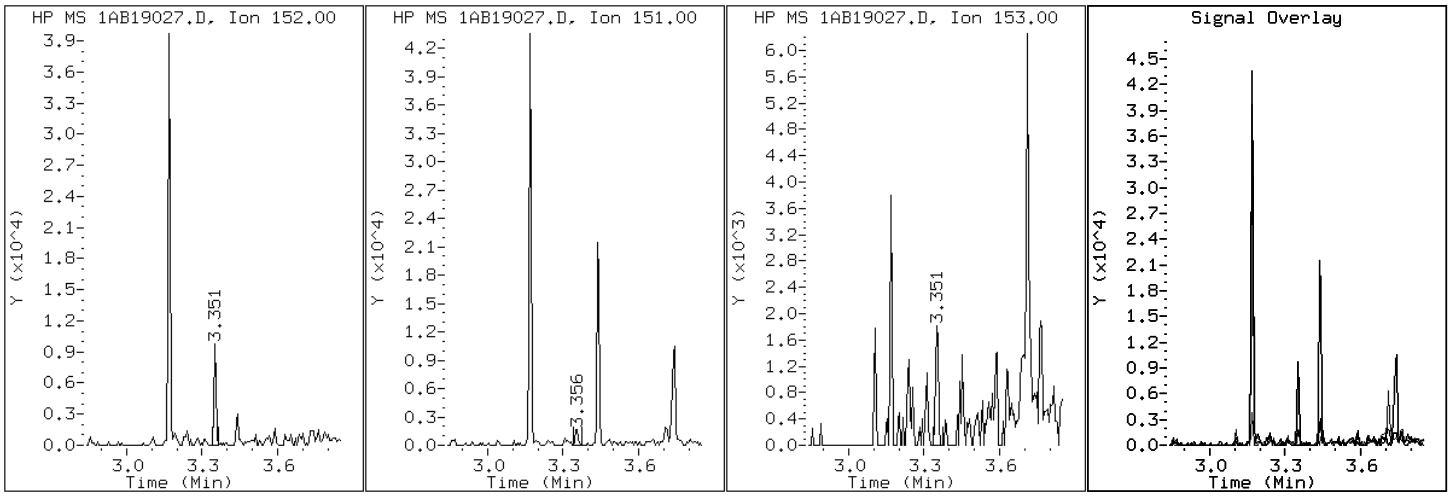
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

5 Acenaphthylene



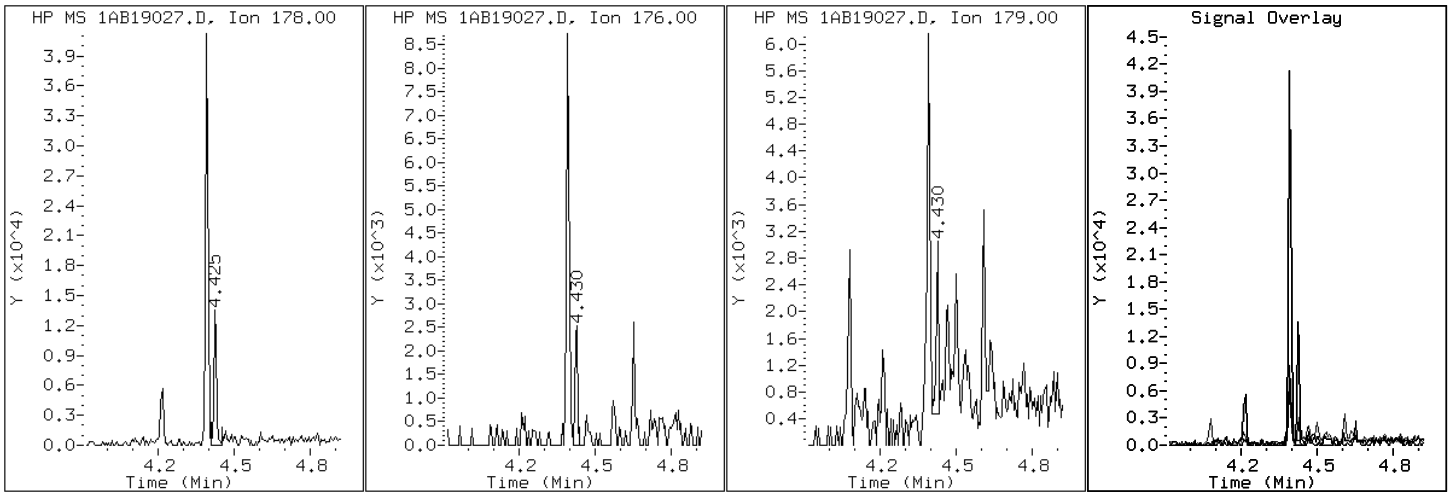
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

12 Anthracene



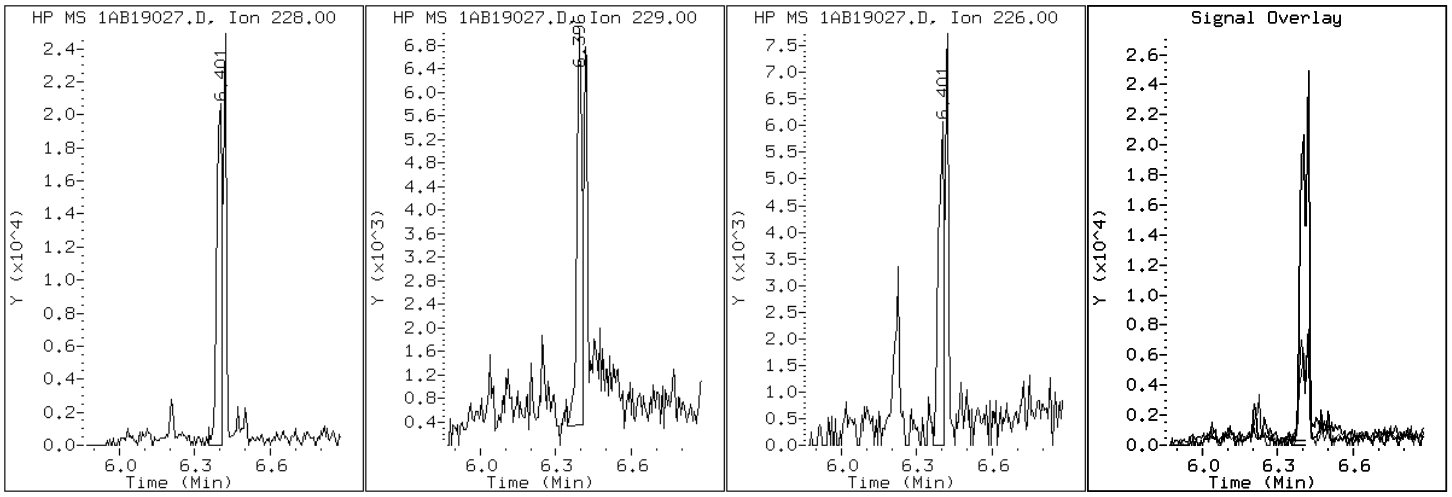
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

17 Benzo(a)anthracene



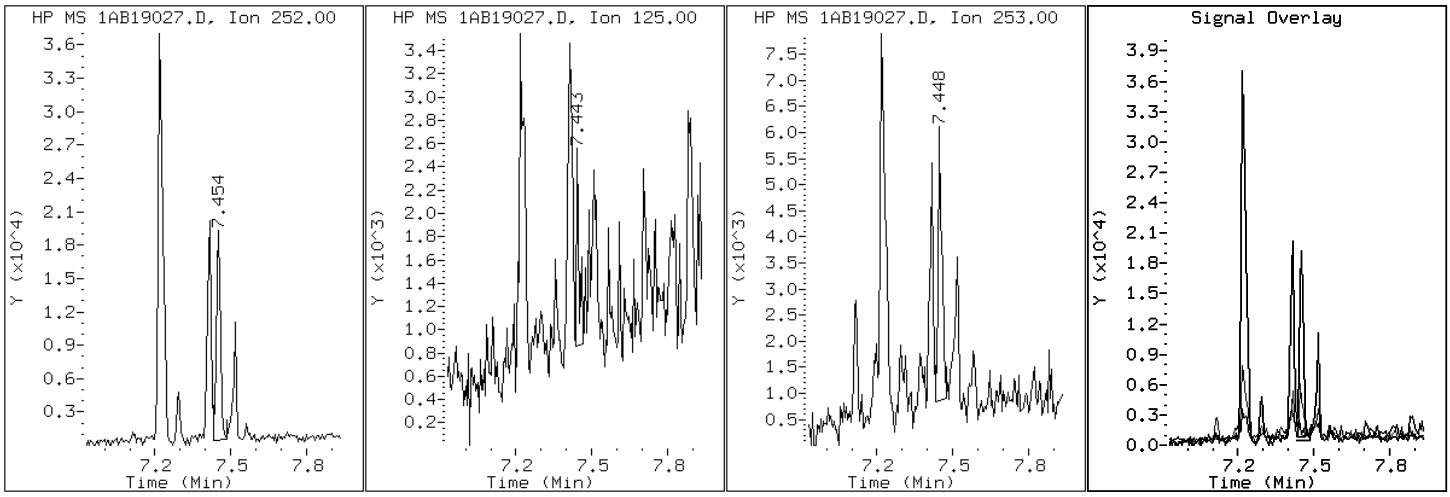
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

22 Benzo(a)pyrene



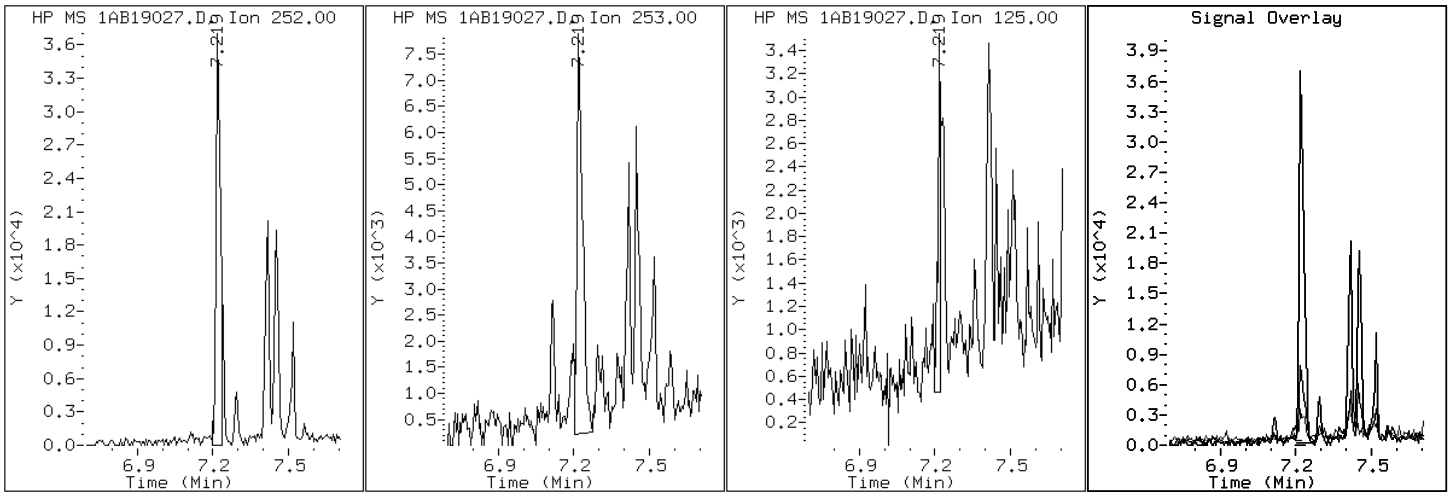
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

20 Benzo(b)fluoranthene



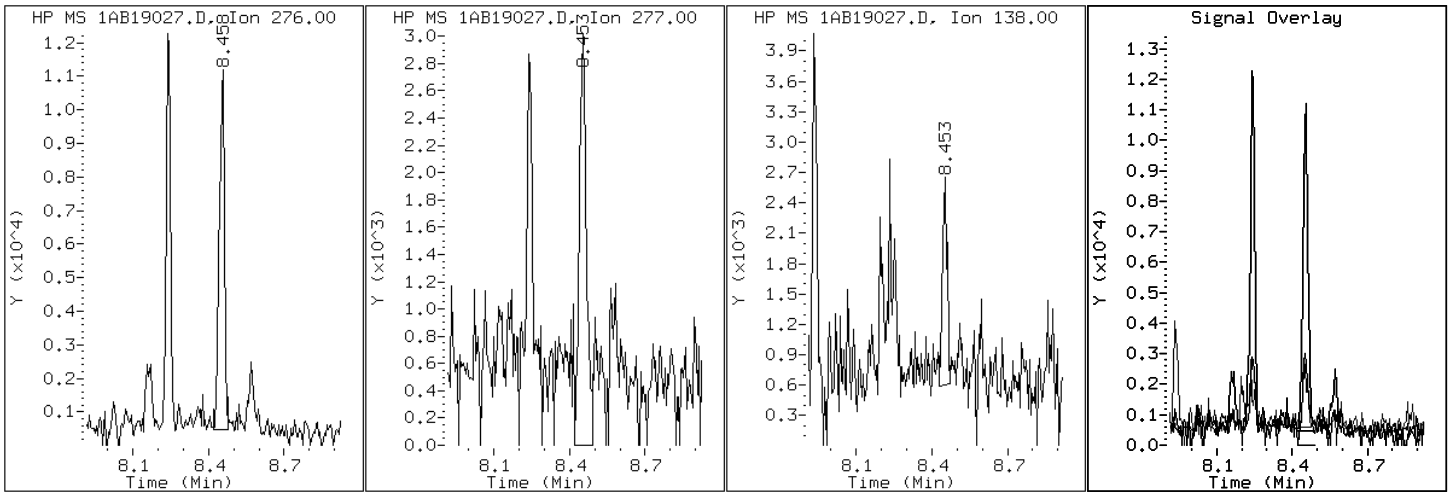
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

26 Benzo(g,h,i)perylene



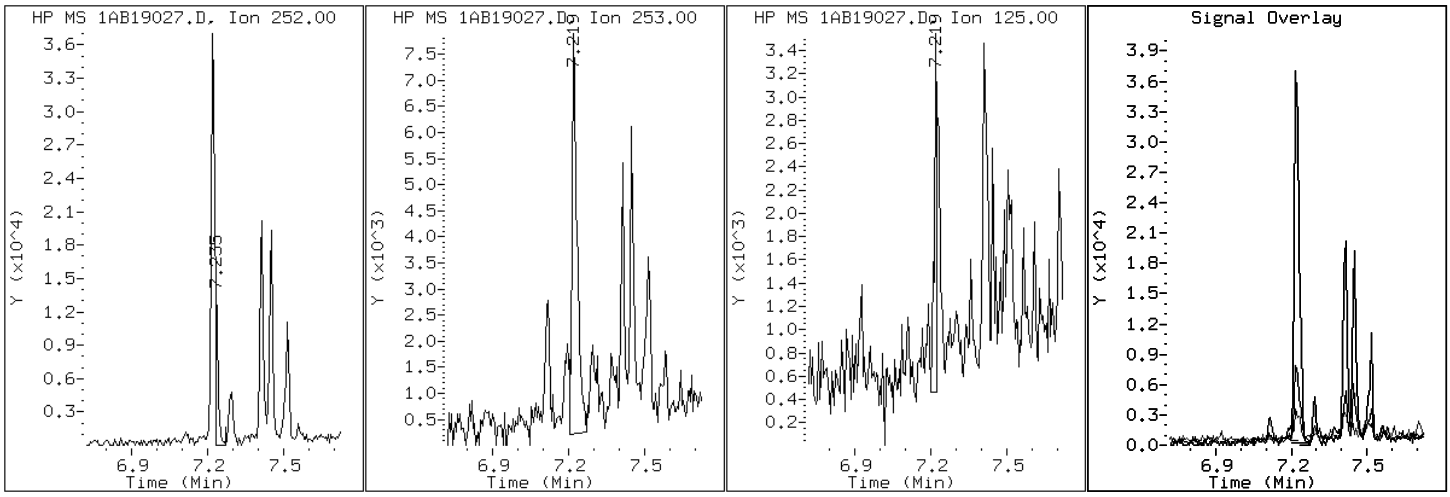
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

21 Benzo(k)fluoranthene



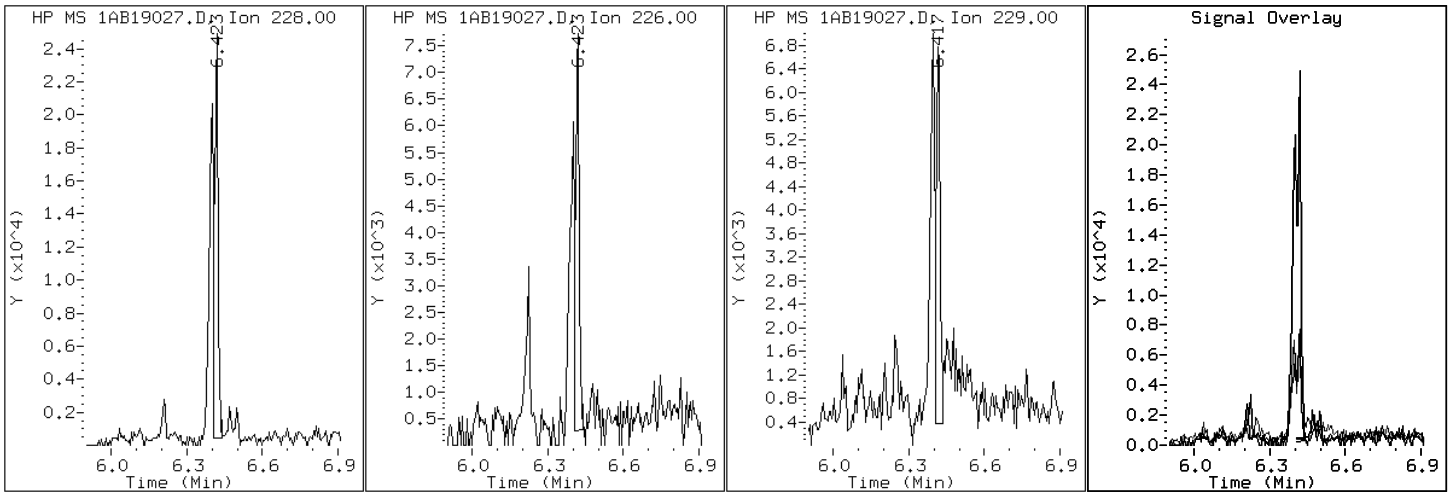
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

19 Chrysene



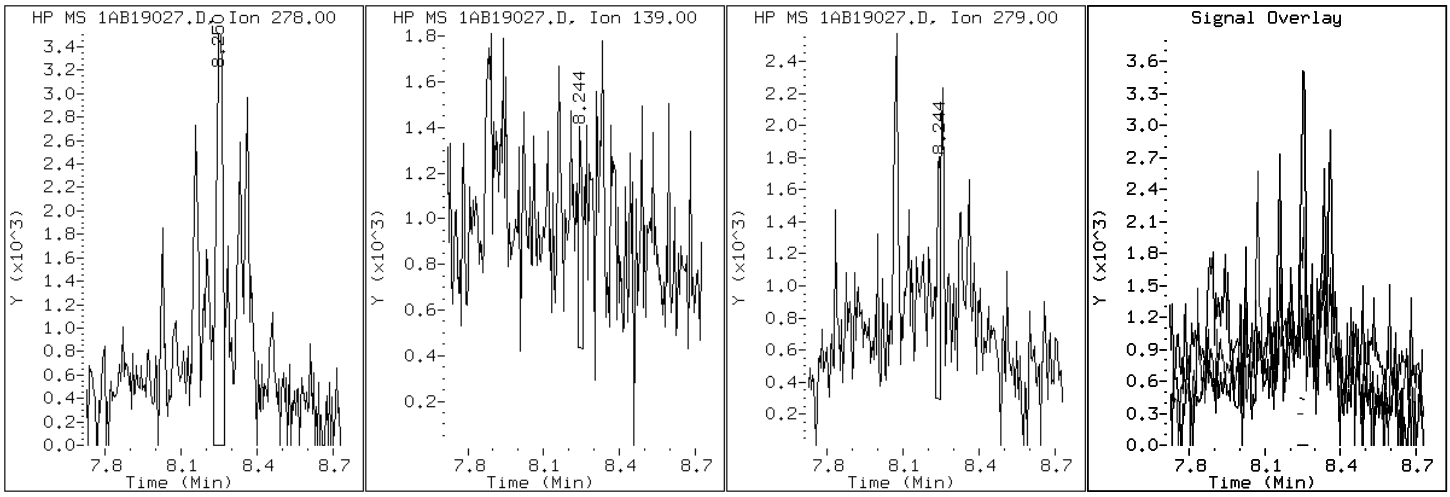
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

25 Dibenzo(a,h)anthracene



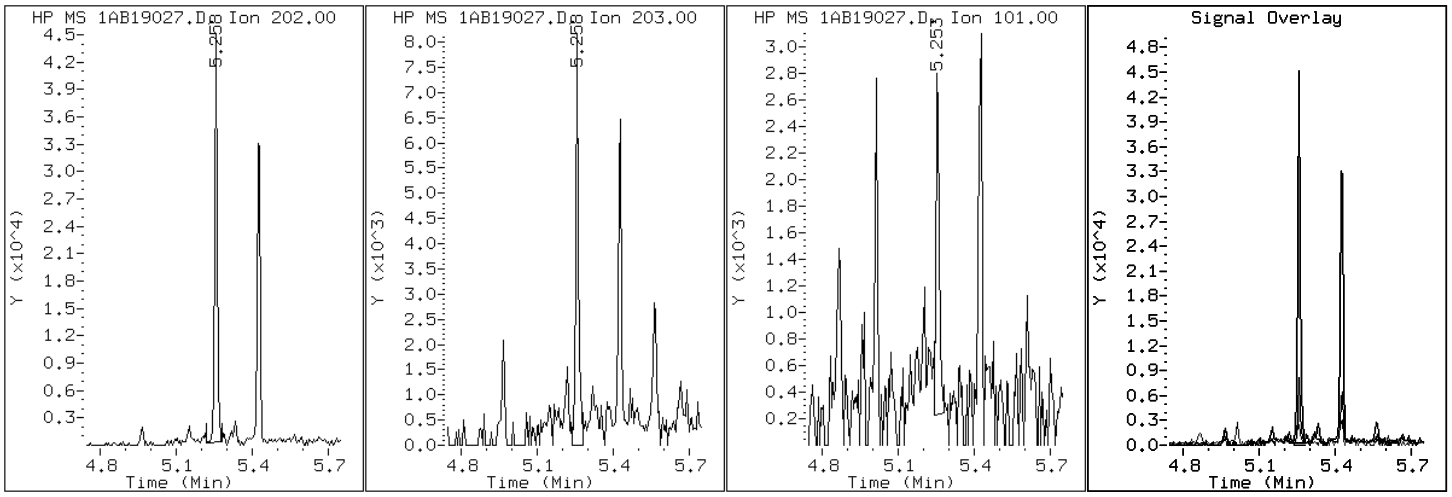
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

15 Fluoranthene



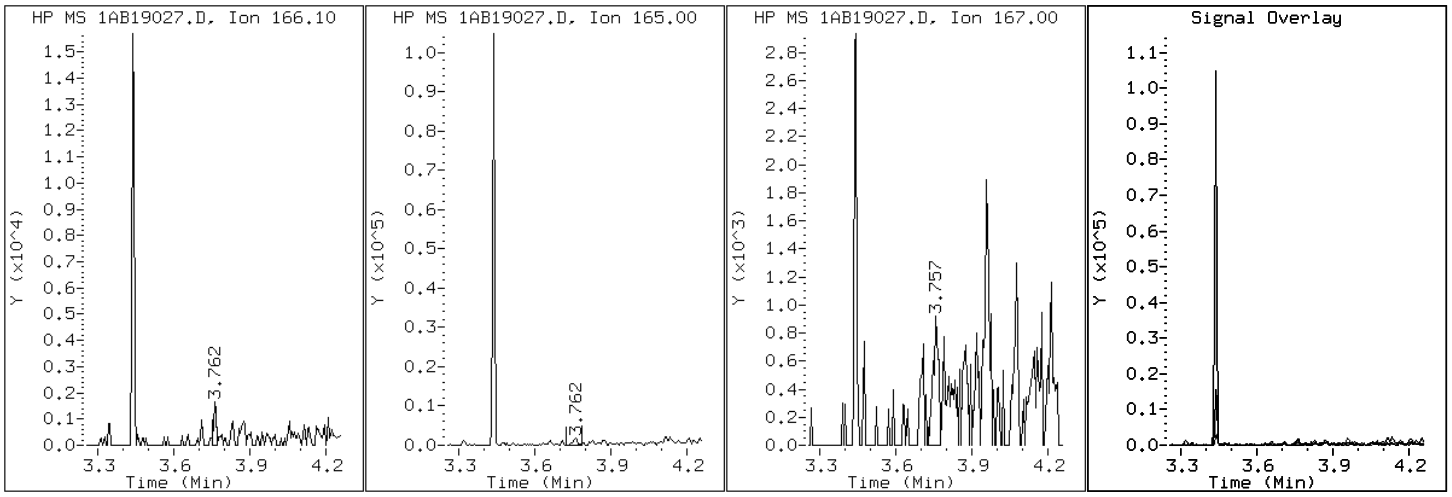
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

9 Fluorene



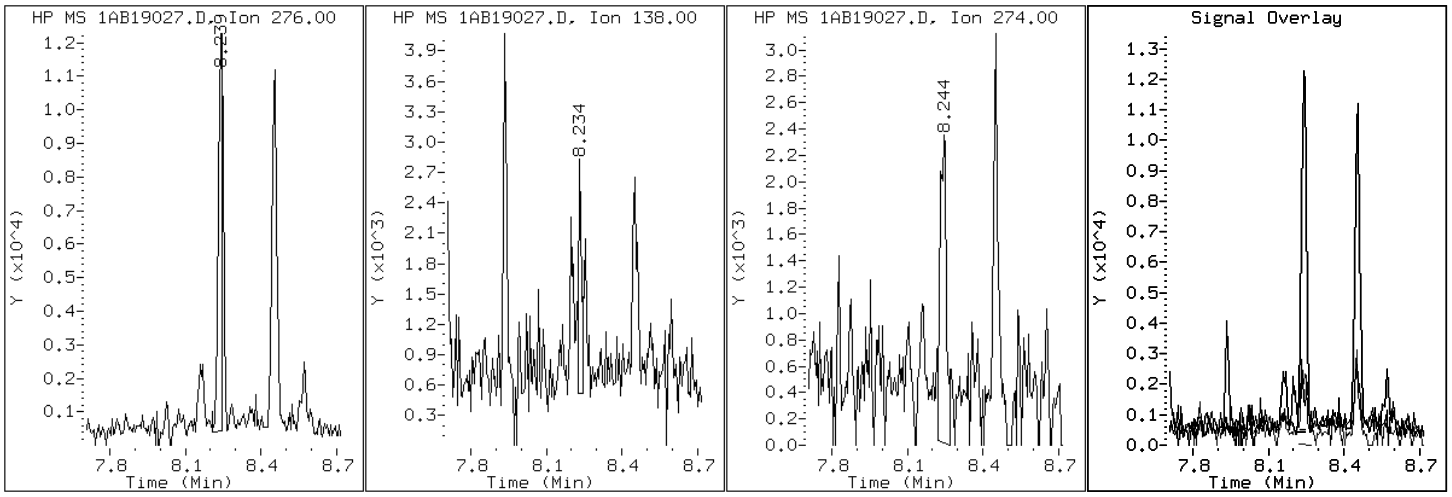
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

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



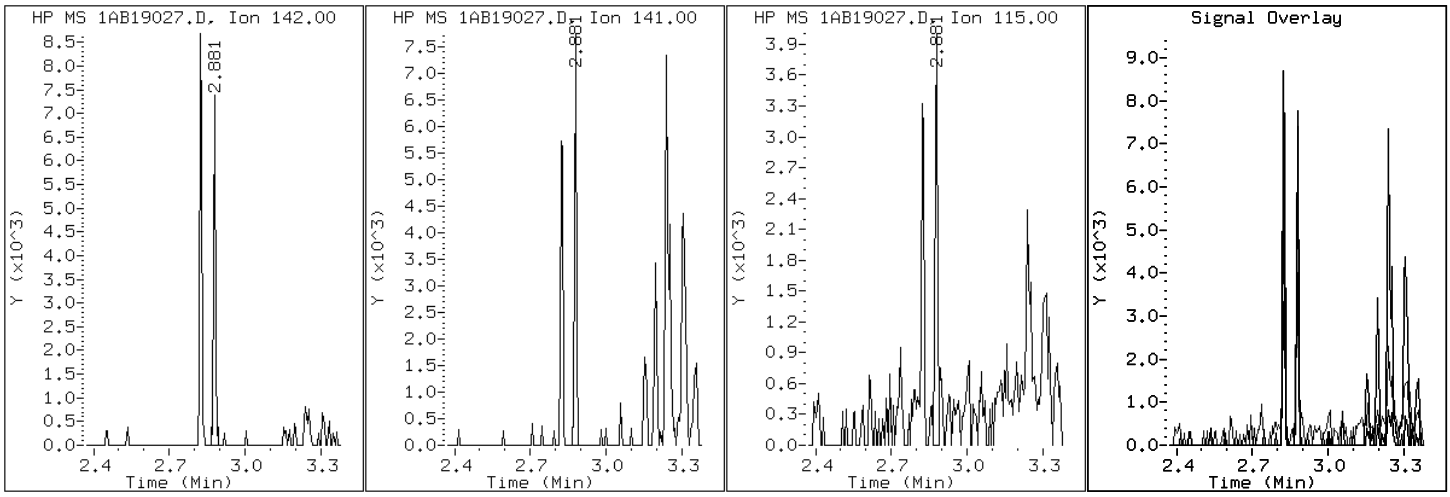
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

4 1-Methylnaphthalene



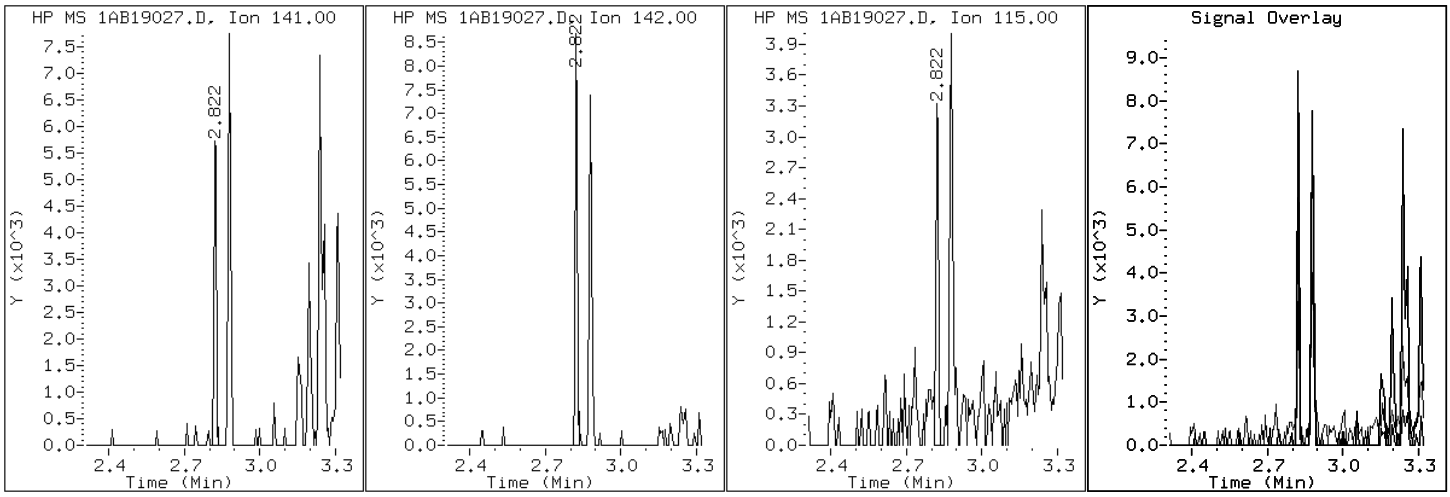
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

3 2-Methylnaphthalene



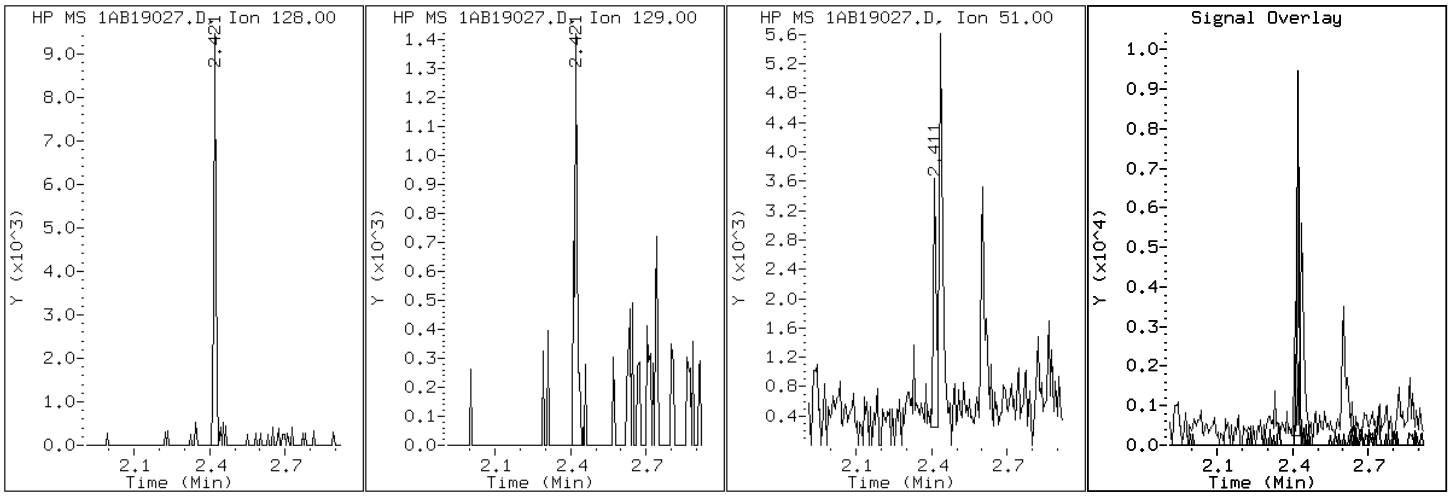
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

2 Naphthalene



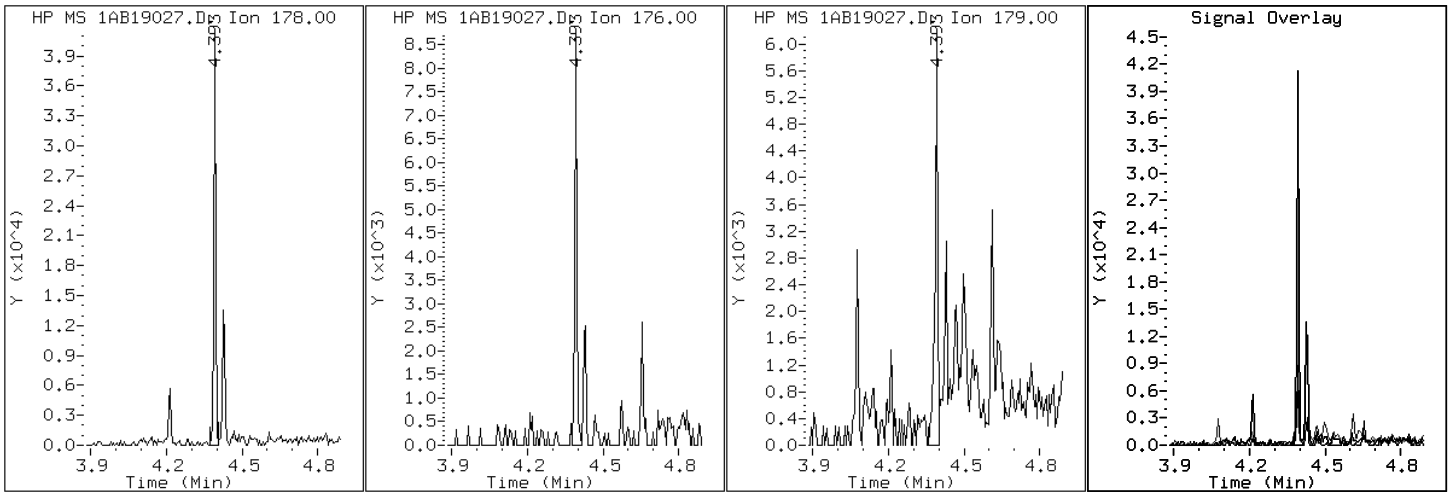
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

11 Phenanthrene



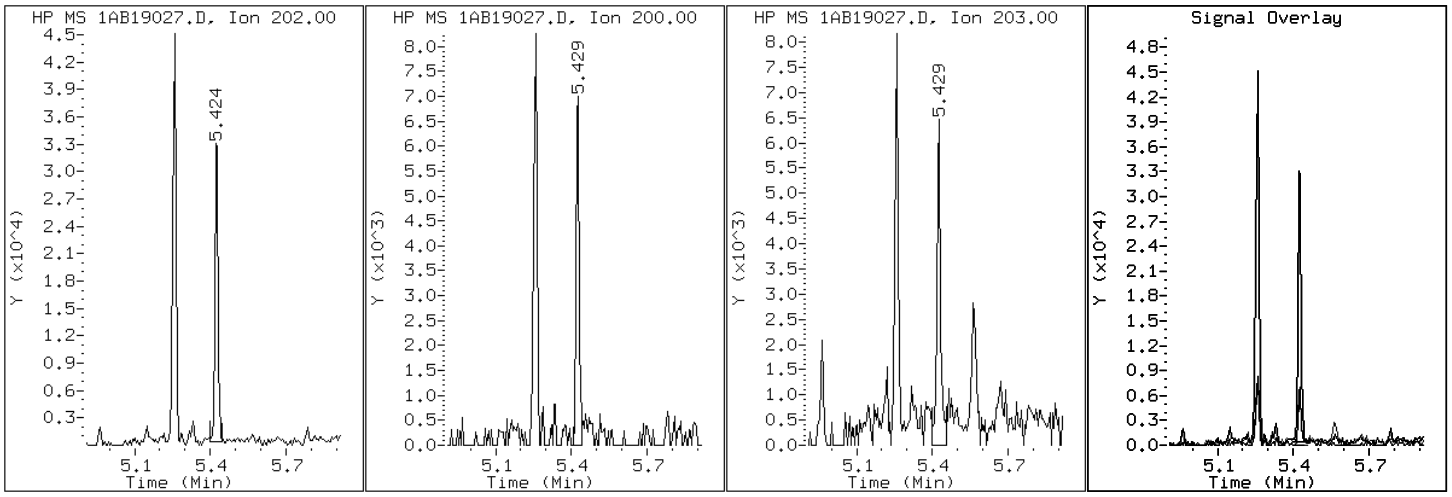
Data File: 1AB19027.D

Date: 19-FEB-2013 18:28

Client ID: CV0748CC-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-11-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB19027.D
Inj. Date and Time: 19-FEB-2013 18:28
Instrument ID: BSMA5973.i
Client ID: CV0748CC-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

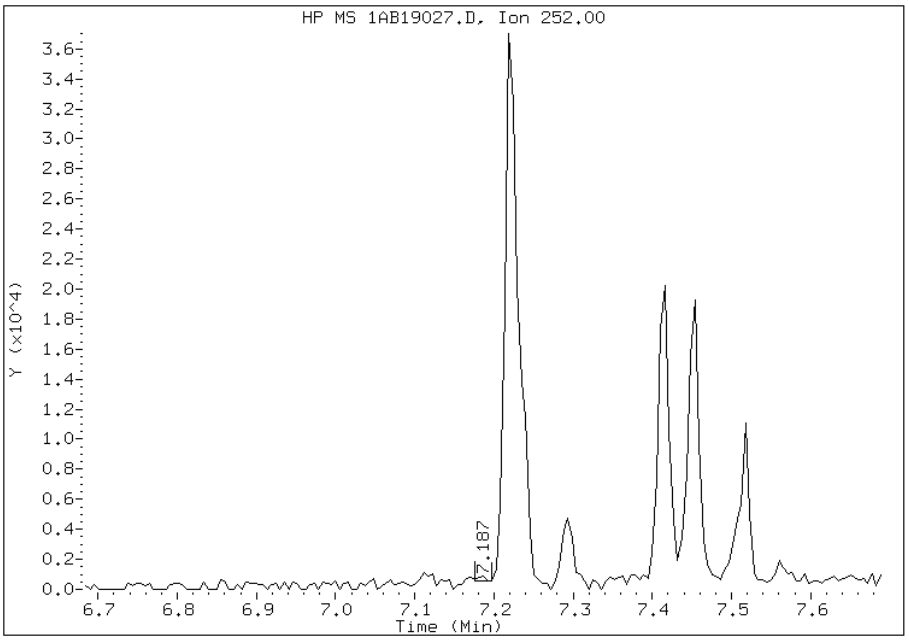
Processing Integration Results

RT: 7.19

Response: 219

Amount: 0

Conc: 3



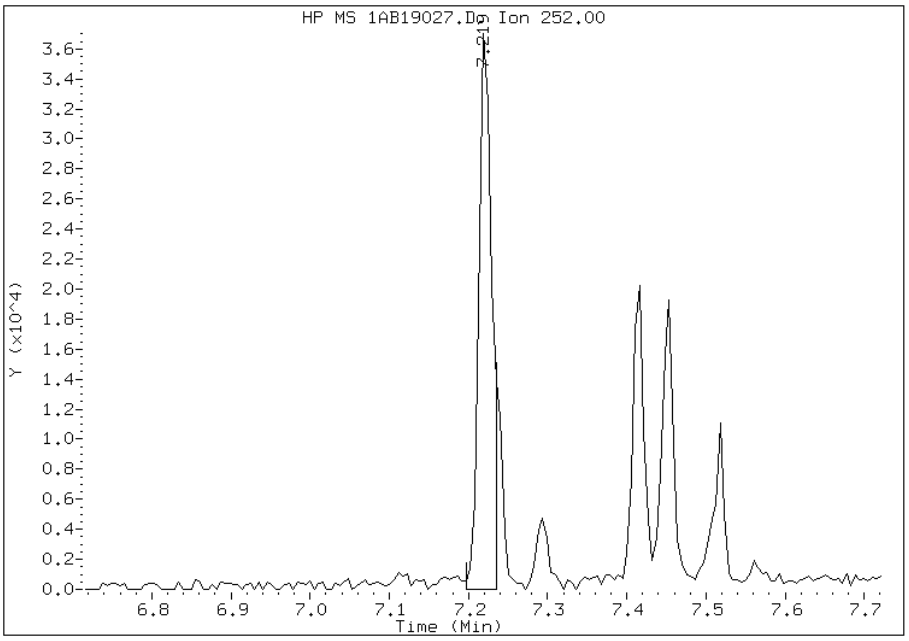
Manual Integration Results

RT: 7.22

Response: 41656

Amount: 2

Conc: 656



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19027.D
Inj. Date and Time: 19-FEB-2013 18:28
Instrument ID: BSMA5973.i
Client ID: CV0748CC-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

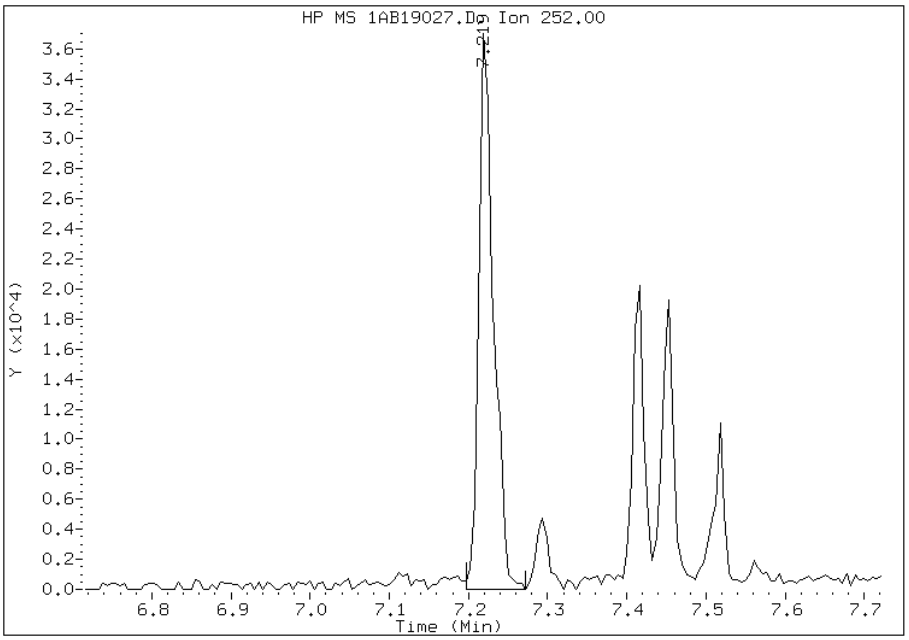
Processing Integration Results

RT: 7.22

Response: 47311

Amount: 2

Conc: 712



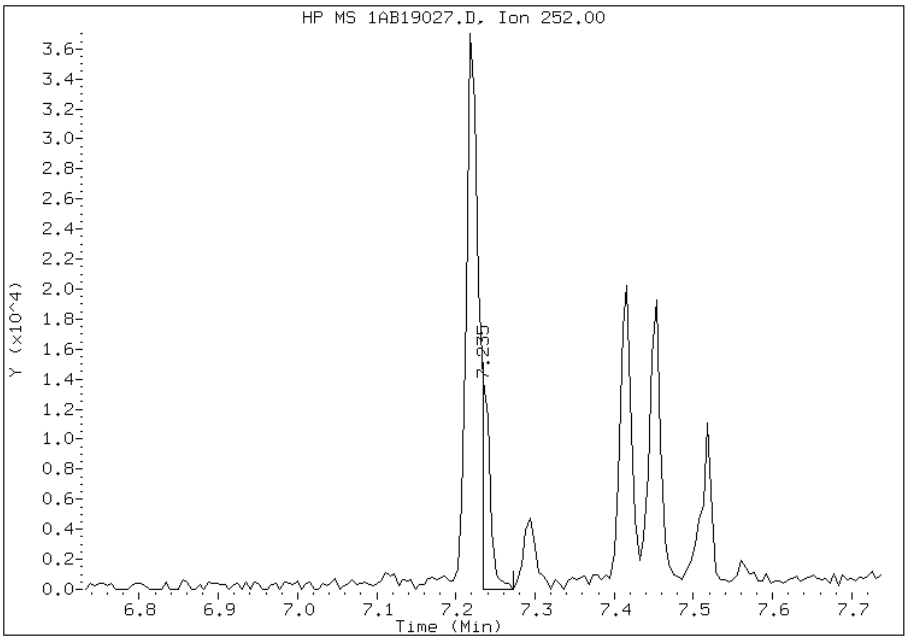
Manual Integration Results

RT: 7.23

Response: 10052

Amount: 0

Conc: 151



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19027.D
Inj. Date and Time: 19-FEB-2013 18:28
Instrument ID: BSMA5973.i
Client ID: CV0748CC-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

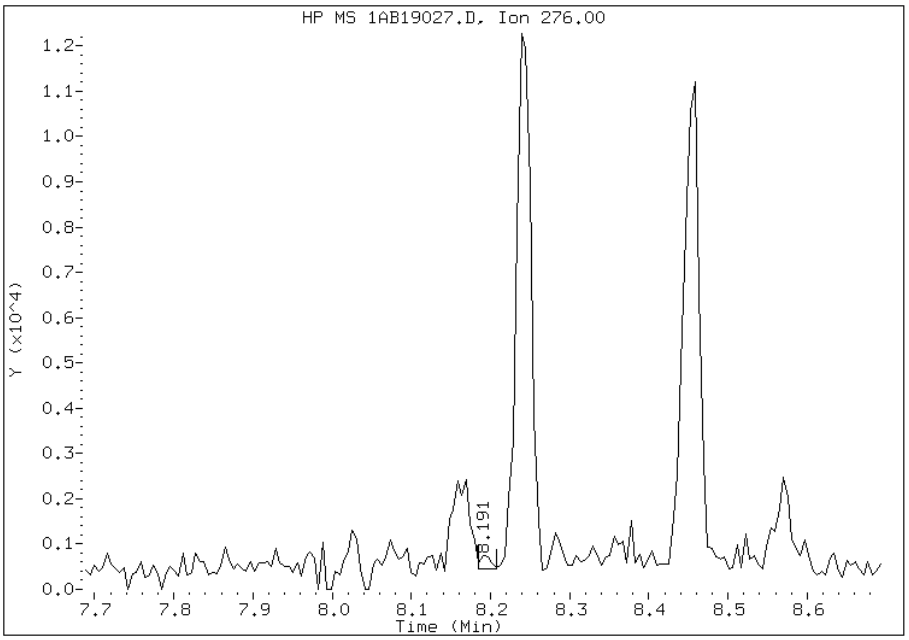
Processing Integration Results

RT: 8.19

Response: 274

Amount: 0

Conc: 6



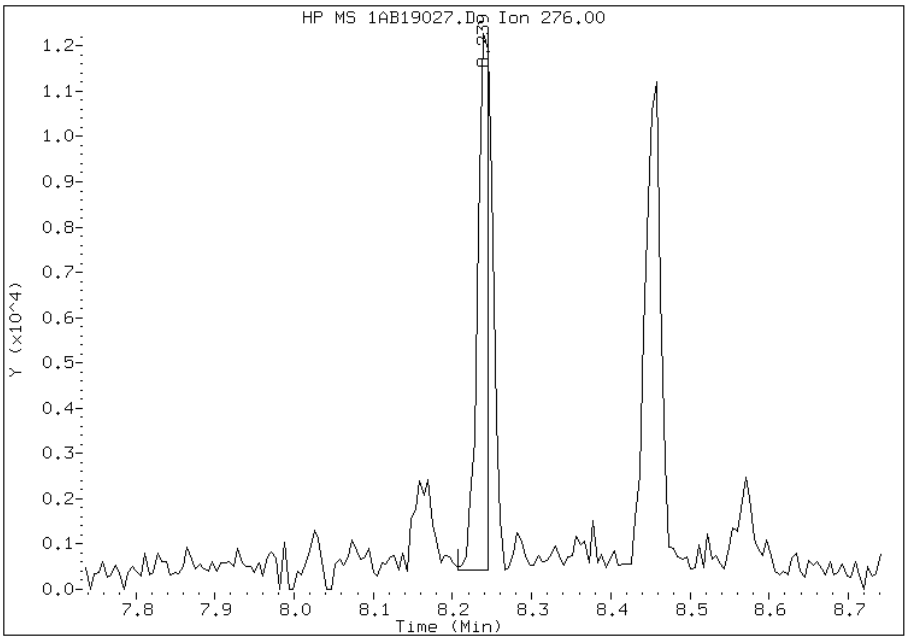
Manual Integration Results

RT: 8.24

Response: 11480

Amount: 1

Conc: 241



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:44
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748DD-CS | Lab Sample ID: 680-87320-12

Matrix: Solid | Lab File ID: 1AB19028.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:39

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 15.33(g) | Date Analyzed: 02/19/2013 18:43

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

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

% Moisture: 23.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	73	J	210	26
120-12-7	Anthracene	150		43	22
56-55-3	Benzo[a]anthracene	410		41	20
50-32-8	Benzo[a]pyrene	260		53	27
205-99-2	Benzo[b]fluoranthene	460		63	31
191-24-2	Benzo[g,h,i]perylene	240		100	23
207-08-9	Benzo[k]fluoranthene	150		41	19
218-01-9	Chrysene	430		46	23
53-70-3	Dibenz(a,h)anthracene	85	J	100	21
206-44-0	Fluoranthene	570		100	21
86-73-7	Fluorene	27	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	170		100	37
90-12-0	1-Methylnaphthalene	190	J	210	23
91-57-6	2-Methylnaphthalene	180	J	210	37
91-20-3	Naphthalene	160	J	210	23
85-01-8	Phenanthrene	430		41	20
129-00-0	Pyrene	400		100	19

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\1A021913.b\1AB19028.D
Lab Smp Id: 680-87320-A-12-A Client Smp ID: CV0748DD-CS
Inj Date : 19-FEB-2013 18:43
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-12-a
Misc Info : 680-87320-A-12-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 28
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.330	Weight Extracted
M	23.910	% 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	2.413	2.405	(1.000)	675223	40.0000	
* 6 Acenaphthene-d10	164	3.438	3.431	(1.000)	494834	40.0000	
* 10 Phenanthrene-d10	188	4.379	4.371	(1.000)	706237	40.0000	
$ 14 o-Terphenyl	230	4.656	4.649	(1.063)	17872	1.74157	597.2133
* 18 Chrysene-d12	240	6.403	6.390	(1.000)	590933	40.0000	
* 23 Perylene-d12	264	7.509	7.480	(1.000)	764305	40.0000	
2 Naphthalene	128	2.423	2.416	(1.004)	7583	0.46268	158.6611(Q)
3 2-Methylnaphthalene	141	2.824	2.816	(1.170)	4638	0.52824	181.1431
4 1-Methylnaphthalene	142	2.878	2.875	(1.193)	5478	0.55116	189.0030
5 Acenaphthylene	152	3.353	3.345	(0.975)	4639	0.21232	72.8068
9 Fluorene	166	3.764	3.757	(1.095)	1164	0.07828	26.8429(Q)
11 Phenanthrene	178	4.389	4.387	(1.002)	24331	1.26177	432.6805
12 Anthracene	178	4.427	4.419	(1.011)	8336	0.42400	145.3960
13 Carbazole	167	4.587	4.574	(1.048)	3491	0.20715	71.0342

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.260	5.247	(1.201)	31584	1.65204	566.5114
16 Pyrene	202	5.426	5.413	(0.847)	24781	1.16116	398.1820
17 Benzo(a)anthracene	228	6.398	6.374	(0.999)	21106	1.19618	410.1909
19 Chrysene	228	6.419	6.406	(1.002)	21576	1.25453	430.1998
20 Benzo(b)fluoranthene	252	7.221	7.202	(0.962)	28651	1.34310	460.5724(M)
21 Benzo(k)fluoranthene	252	7.231	7.224	(0.963)	9743	0.43684	149.8004(QMH)
22 Benzo(a)pyrene	252	7.450	7.432	(0.992)	15352	0.75786	259.8817
24 Indeno(1,2,3-cd)pyrene	276	8.236	8.212	(1.097)	8090	0.50576	173.4348(M)
25 Dibenzo(a,h)anthracene	278	8.241	8.228	(1.097)	3983	0.24908	85.4130(H)
26 Benzo(g,h,i)perylene	276	8.449	8.420	(1.125)	11610	0.70060	240.2488

QC Flag Legend

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

Data File: 1AB19028.D

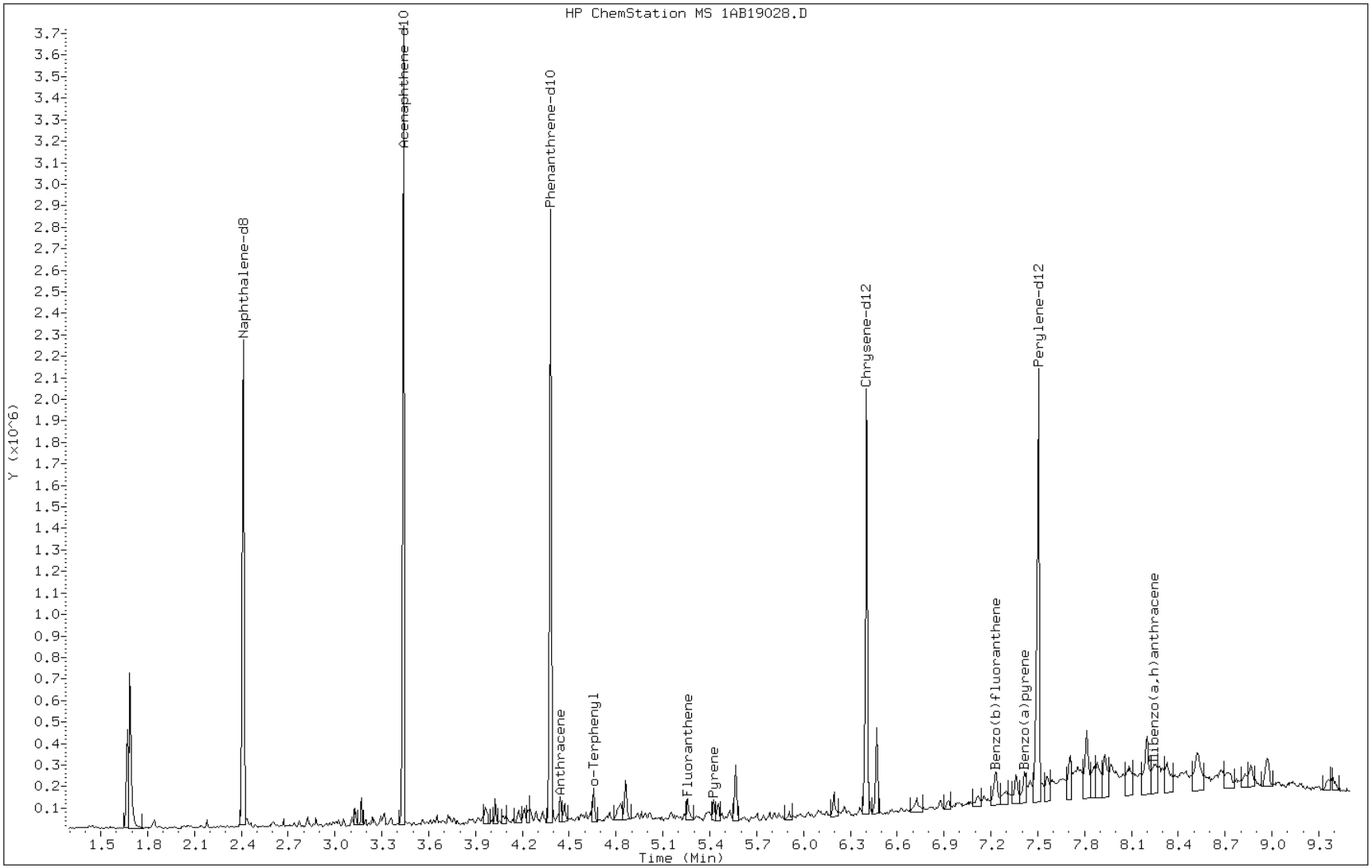
Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS

Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a

Operator: SCC



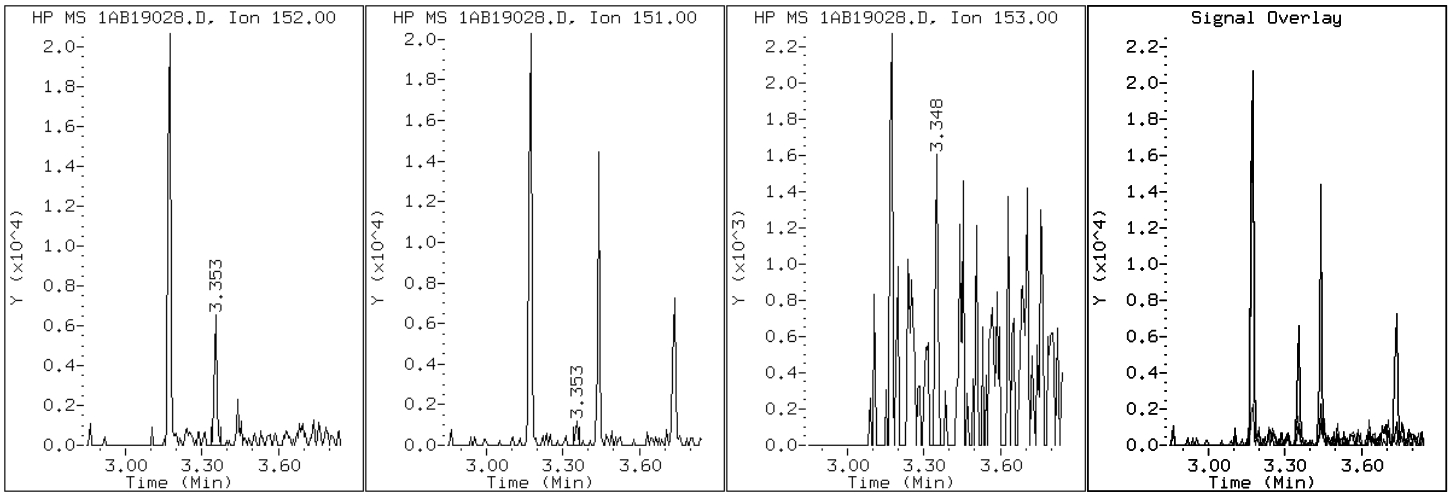
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

5 Acenaphthylene



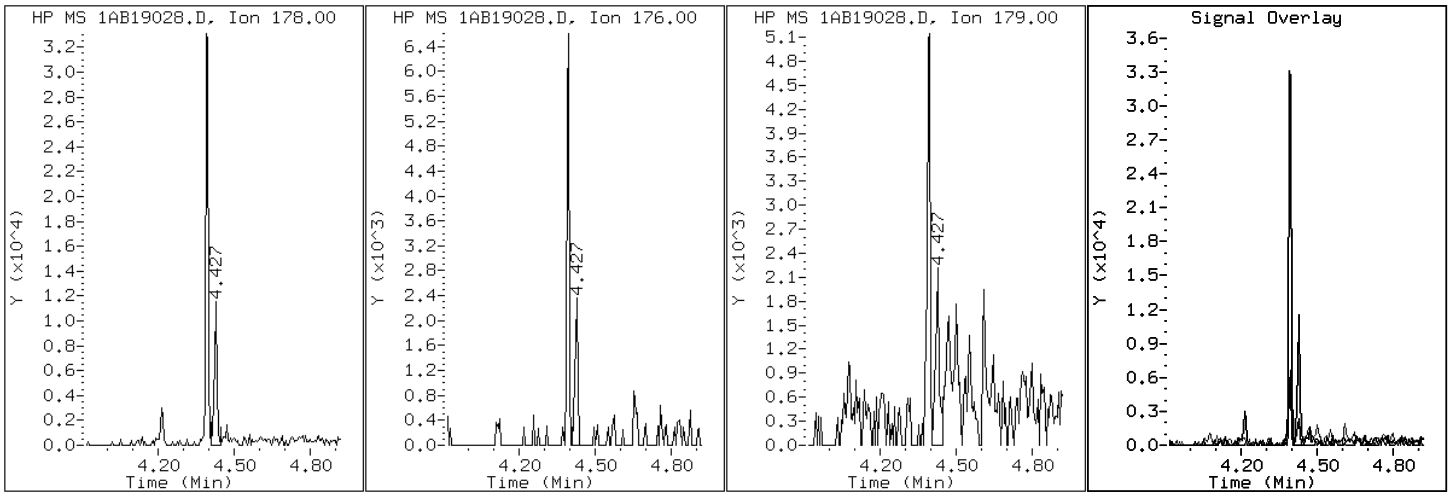
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

12 Anthracene



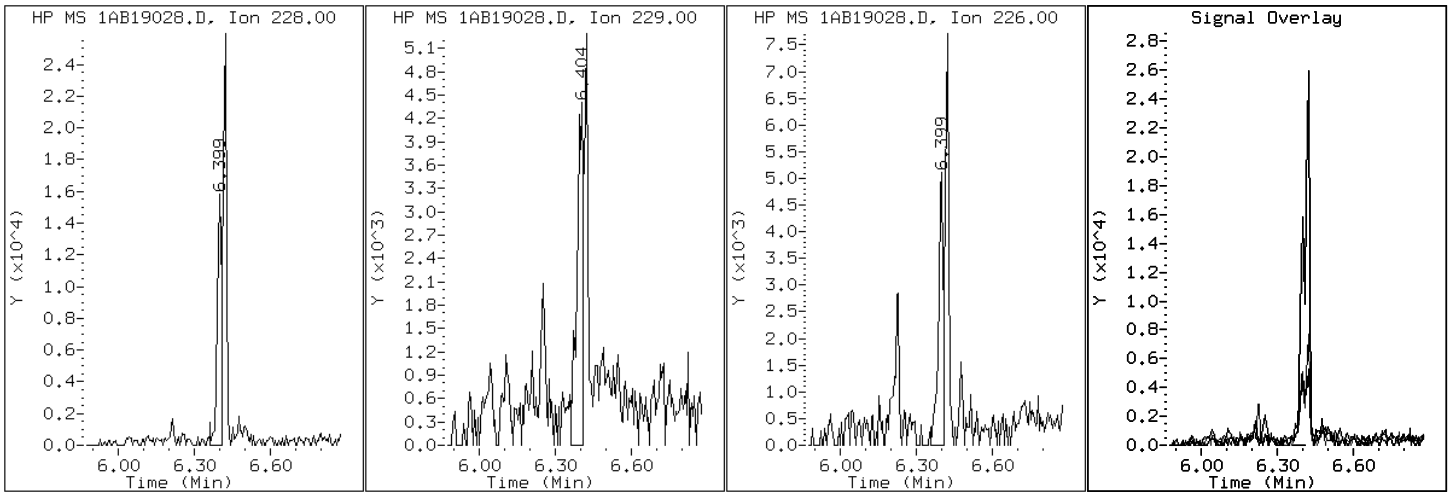
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

17 Benzo(a)anthracene



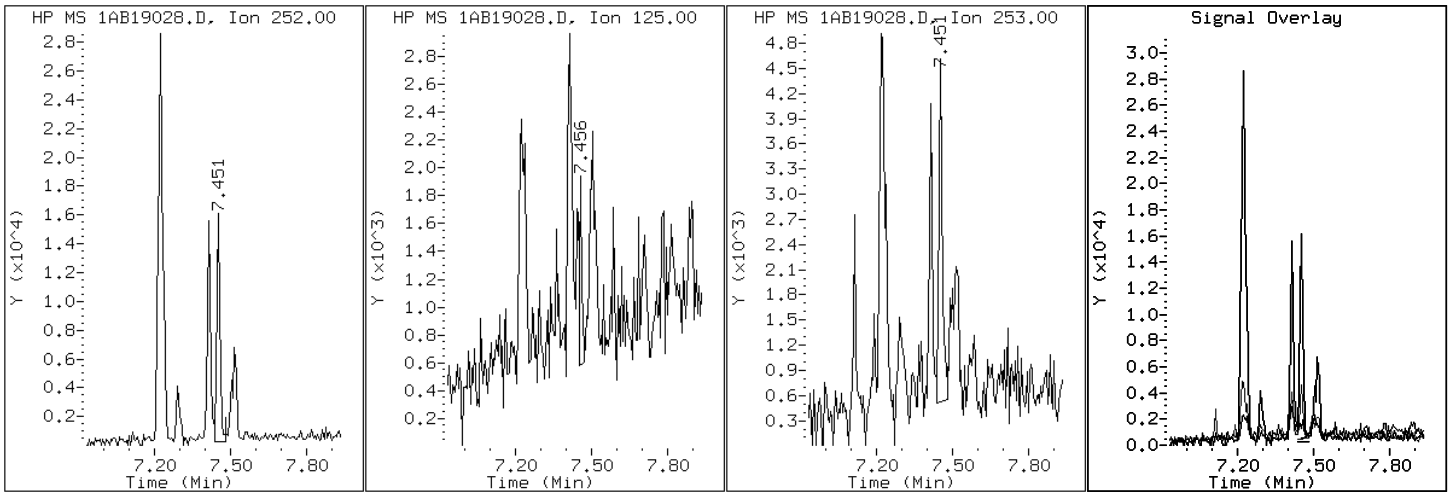
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

22 Benzo(a)pyrene



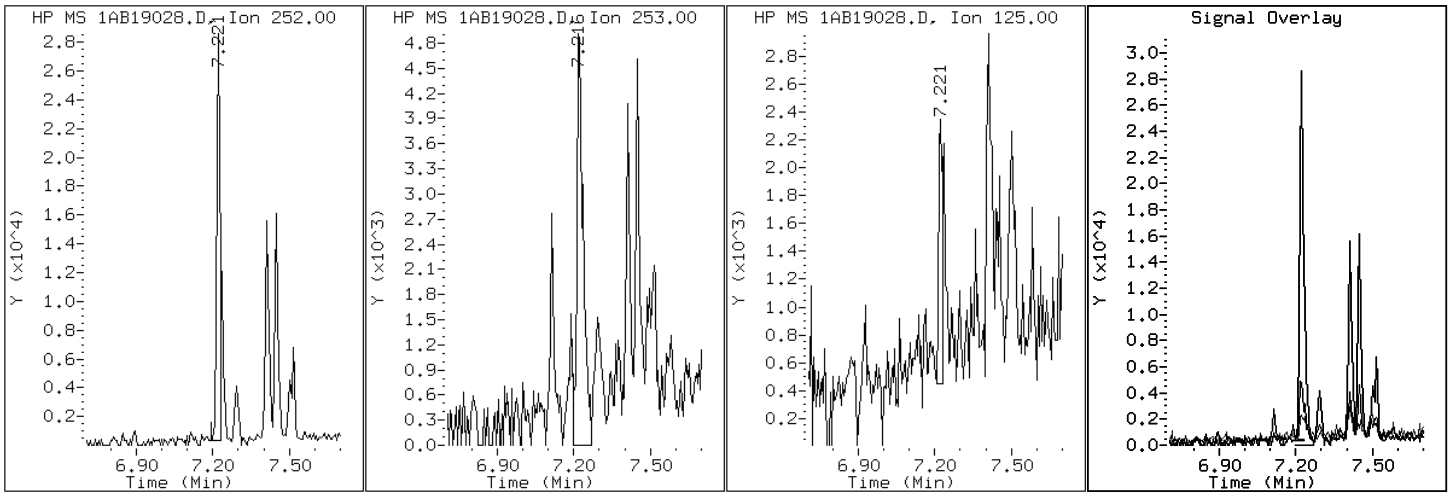
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

20 Benzo(b)fluoranthene



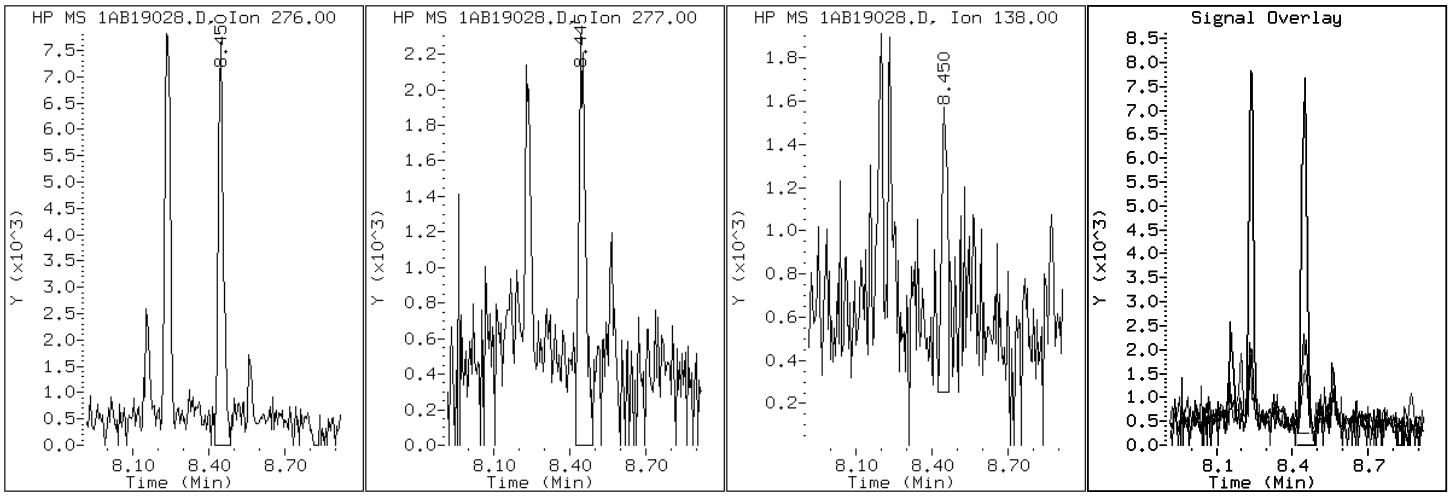
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

26 Benzo(g,h,i)perylene



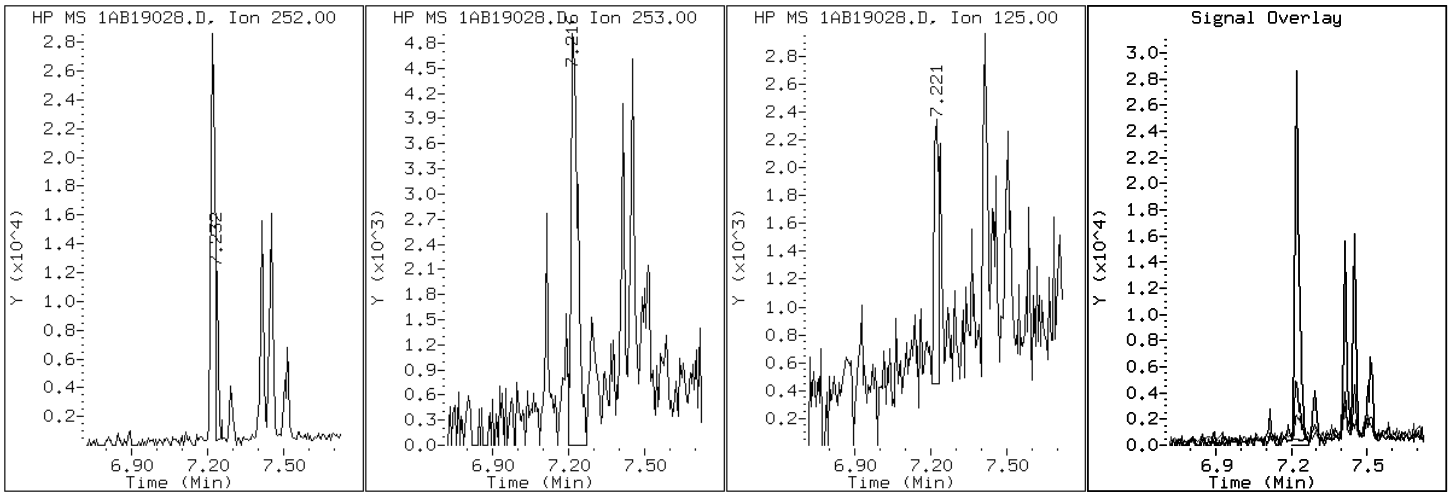
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

21 Benzo(k)fluoranthene



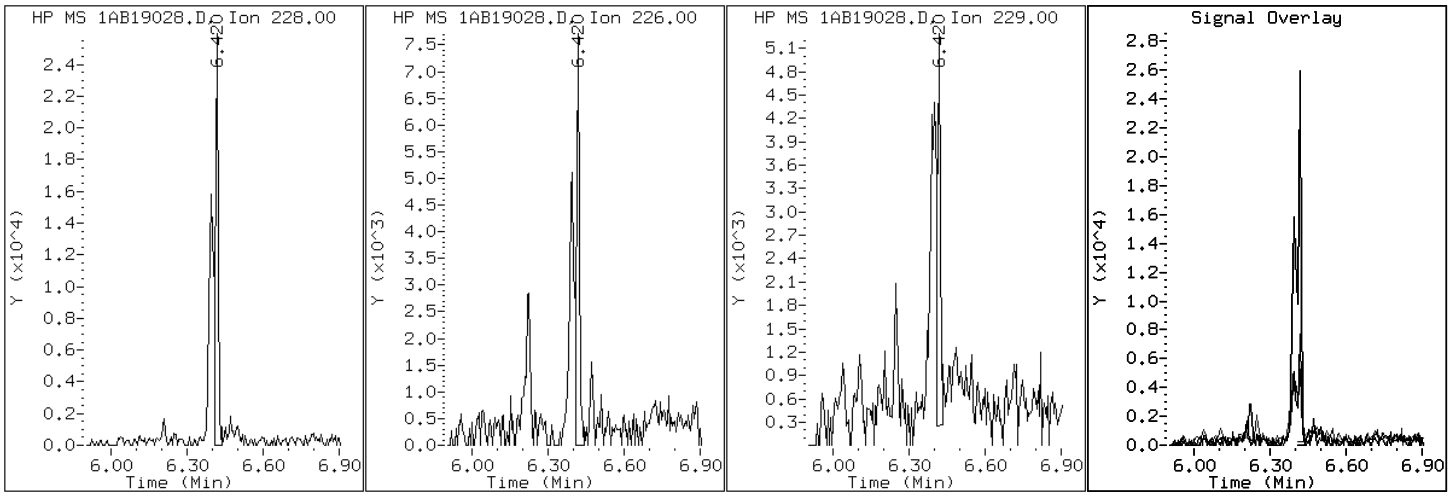
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

19 Chrysene



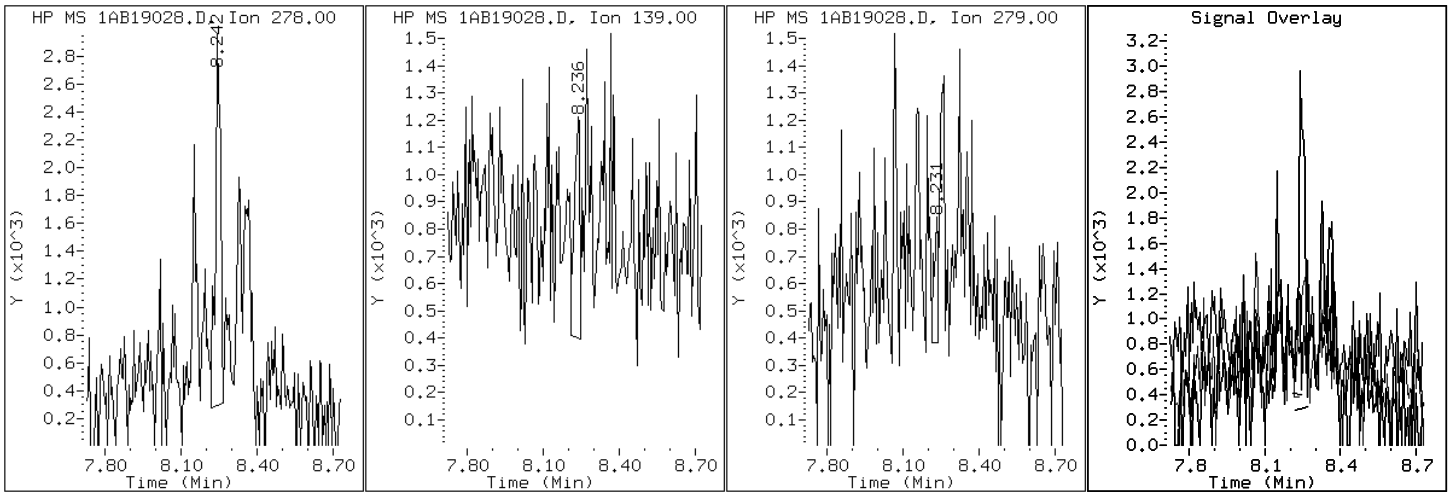
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

25 Dibenzo(a,h)anthracene



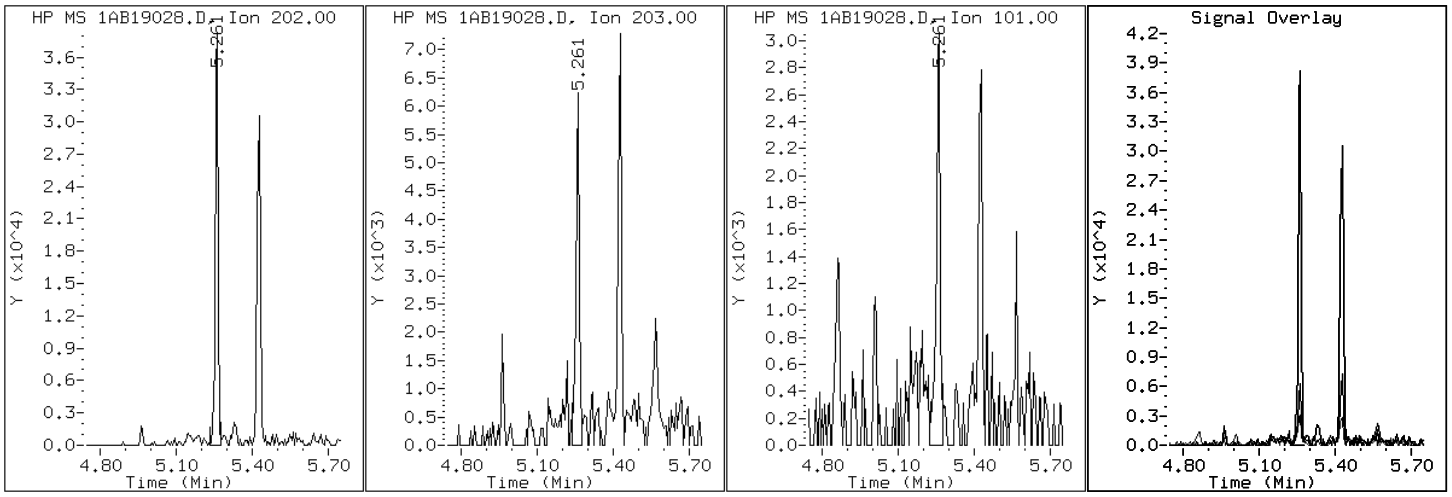
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

15 Fluoranthene



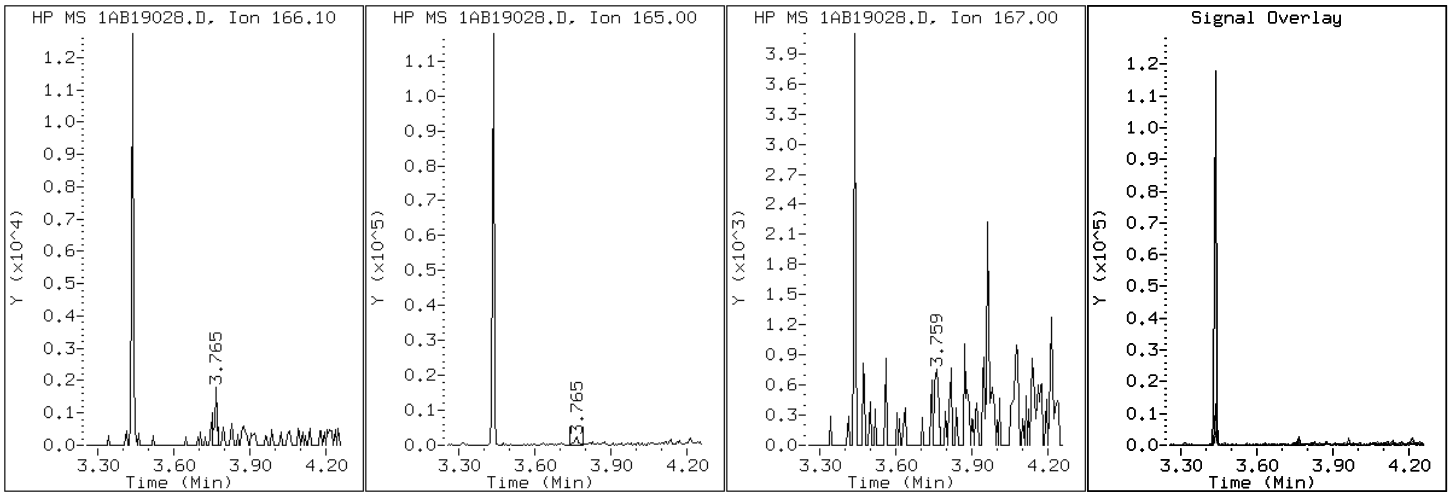
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

9 Fluorene



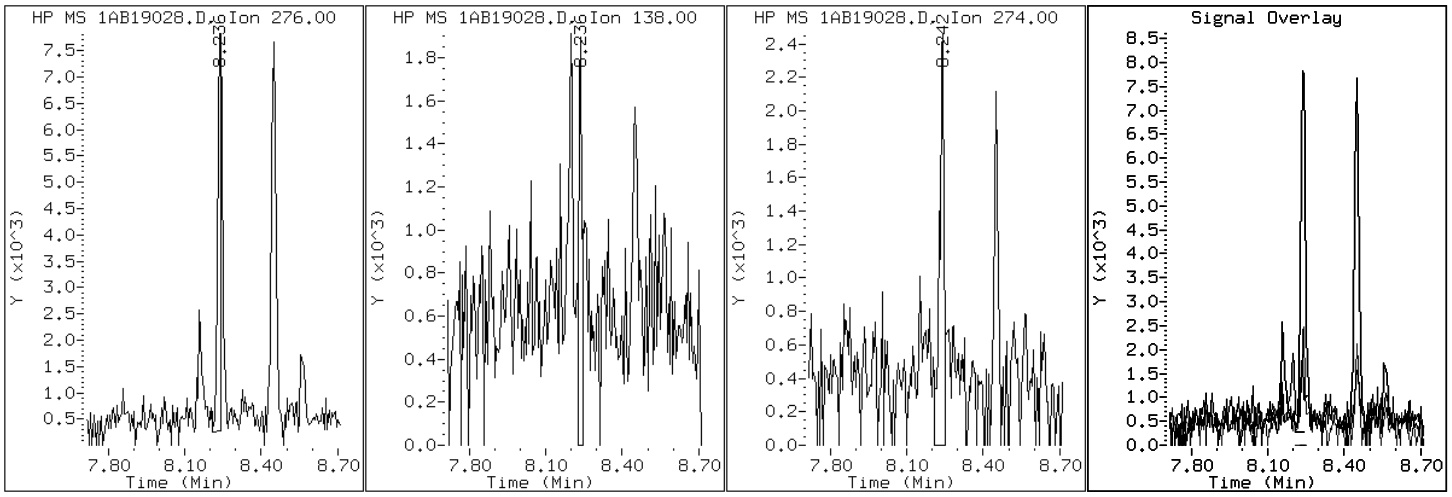
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

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



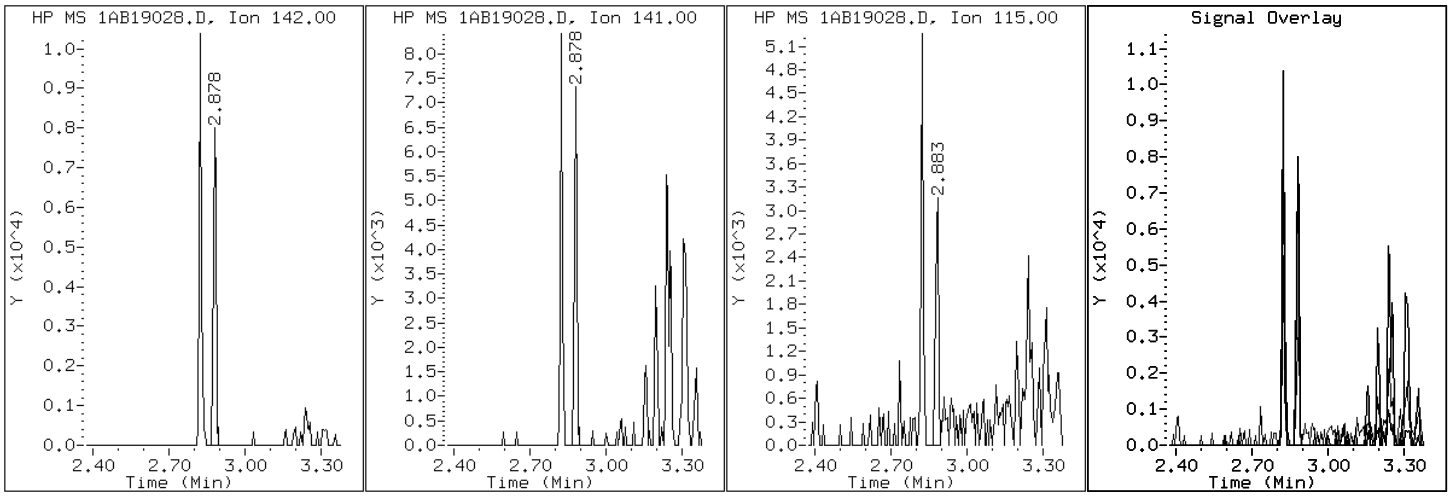
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

4 1-Methylnaphthalene



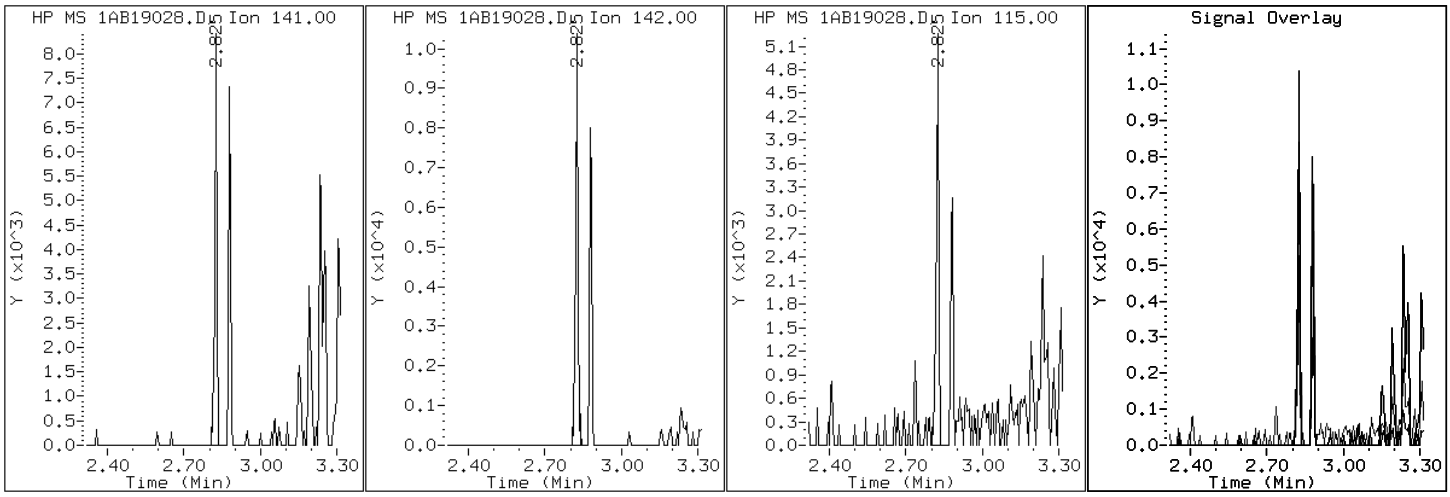
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

3 2-Methylnaphthalene



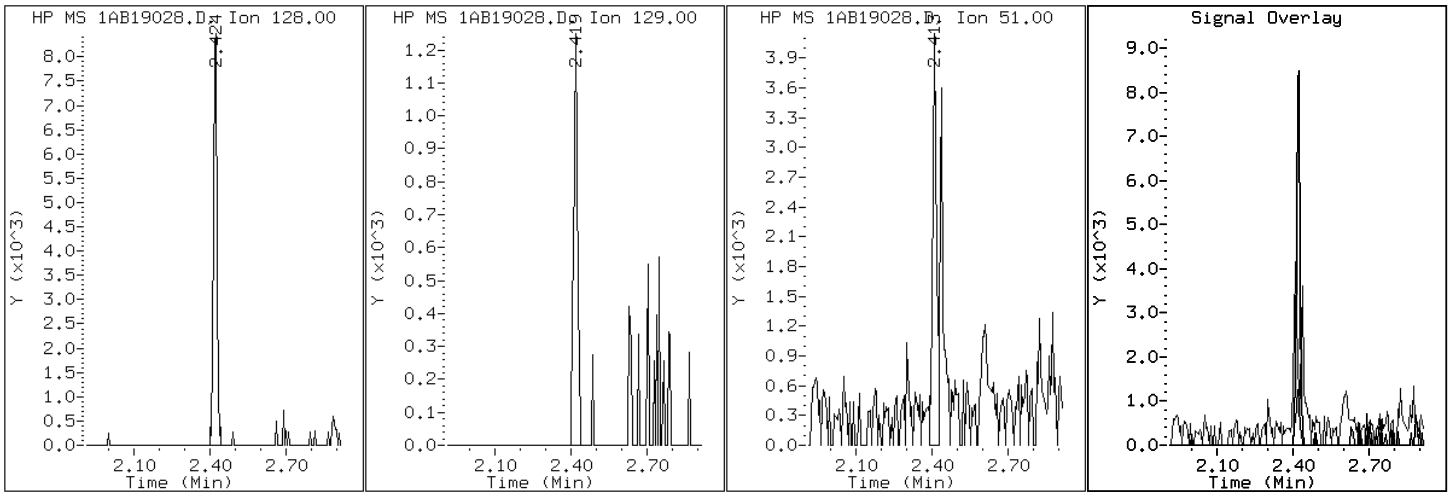
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

2 Naphthalene



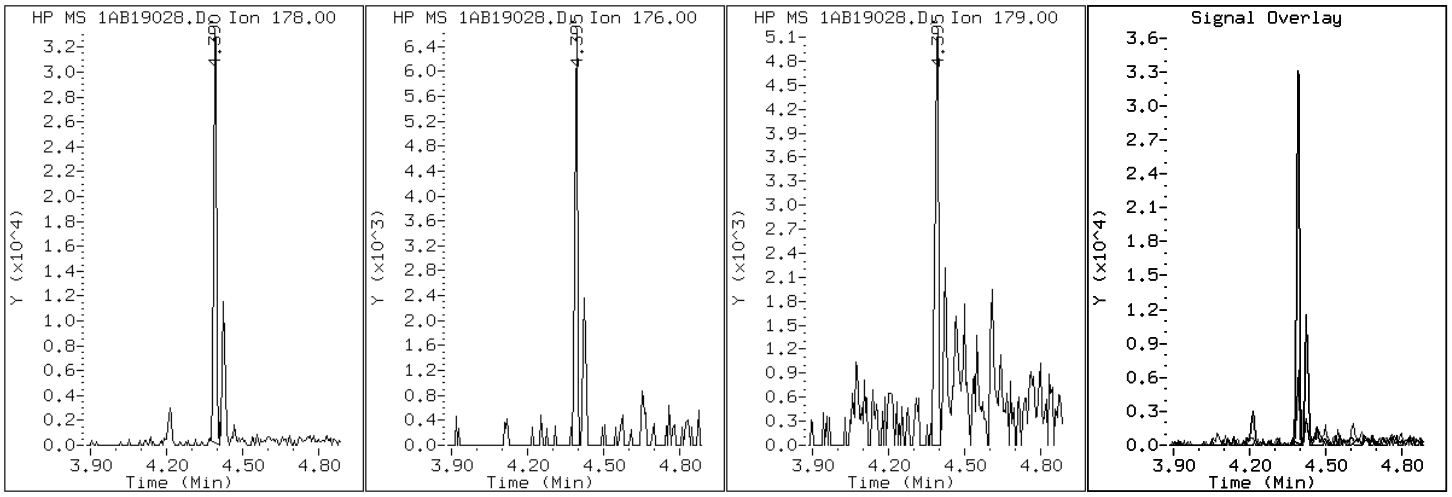
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

11 Phenanthrene



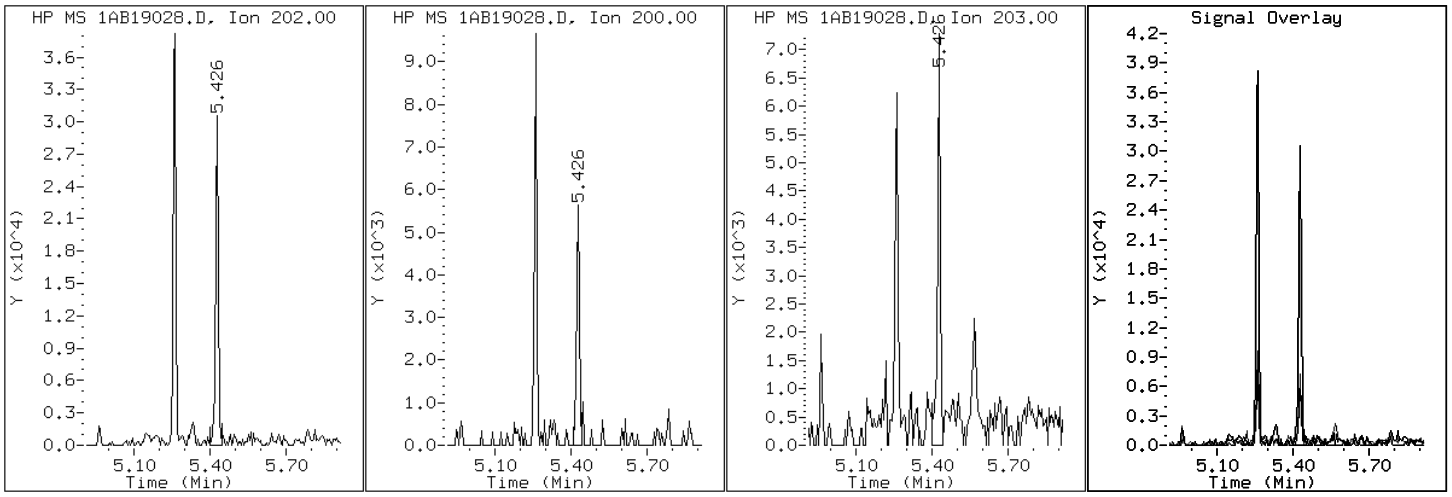
Data File: 1AB19028.D

Date: 19-FEB-2013 18:43

Client ID: CV0748DD-CS Instrument: BSMA5973.i

Sample Info: 680-87320-a-12-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB19028.D
Inj. Date and Time: 19-FEB-2013 18:43
Instrument ID: BSMA5973.i
Client ID: CV0748DD-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

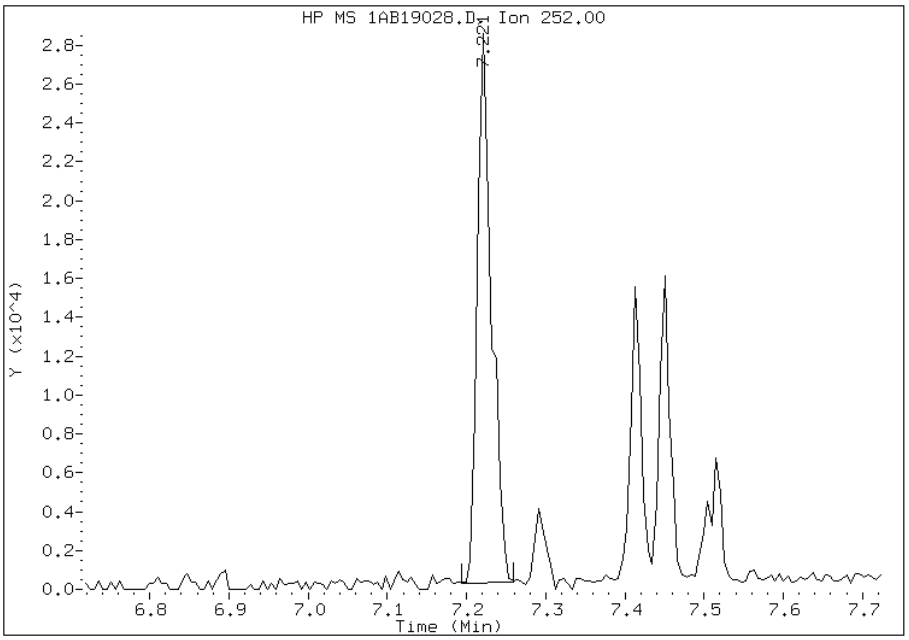
Processing Integration Results

RT: 7.22

Response: 34633

Amount: 2

Conc: 557



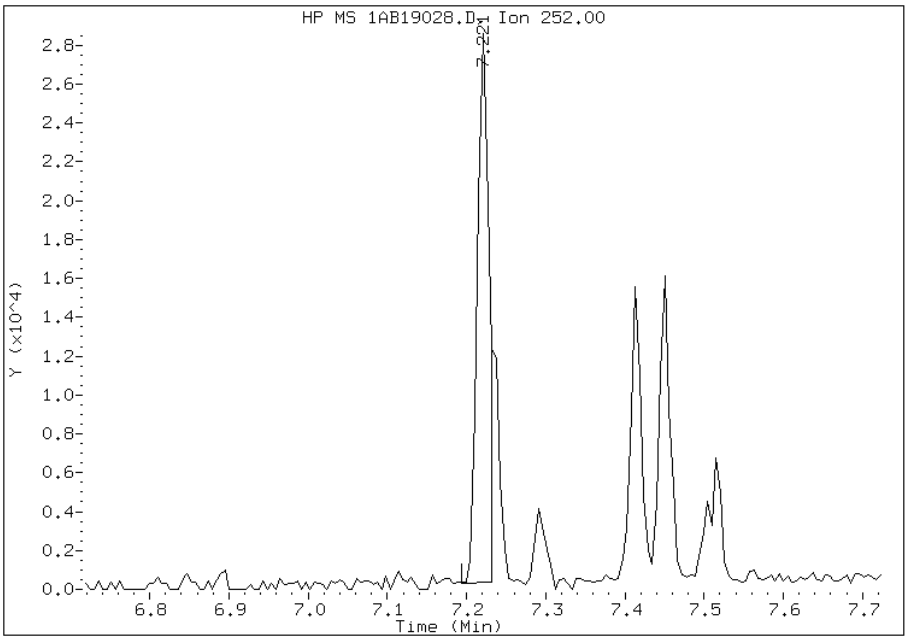
Manual Integration Results

RT: 7.22

Response: 28651

Amount: 1

Conc: 461



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB19028.D
Inj. Date and Time: 19-FEB-2013 18:43
Instrument ID: BSMA5973.i
Client ID: CV0748DD-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

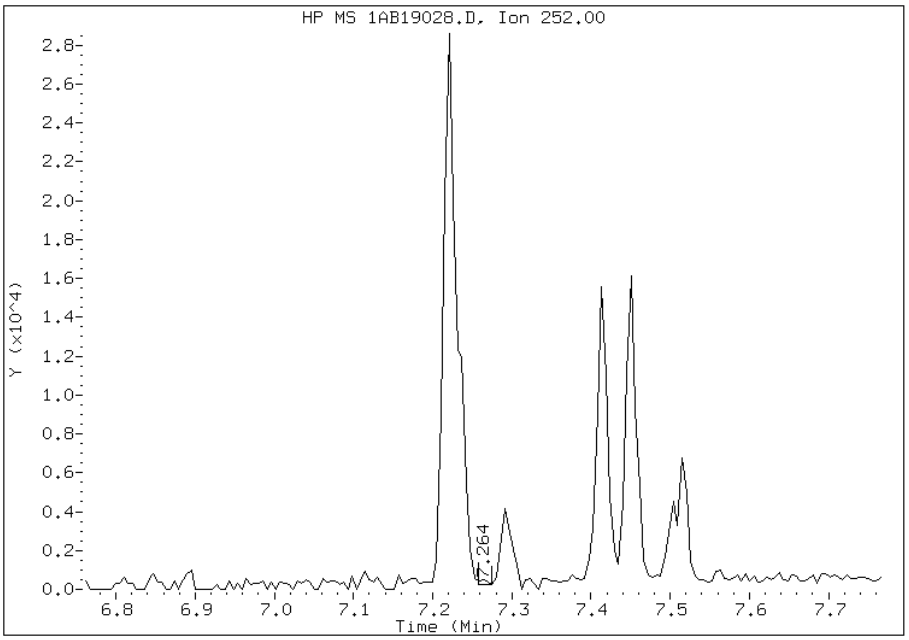
Processing Integration Results

RT: 7.26

Response: 176

Amount: 0

Conc: 3



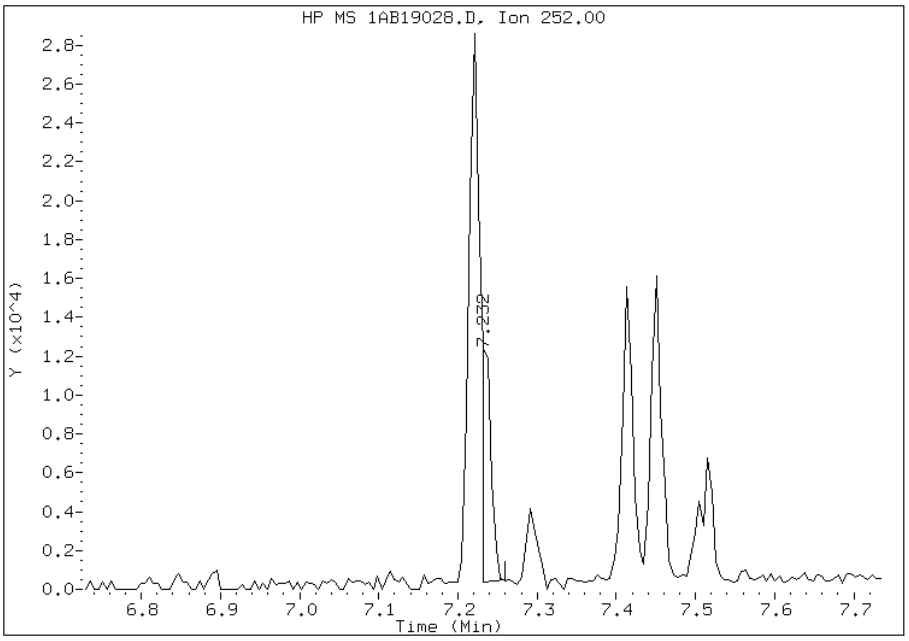
Manual Integration Results

RT: 7.23

Response: 9743

Amount: 0

Conc: 150



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB19028.D
Inj. Date and Time: 19-FEB-2013 18:43
Instrument ID: BSMA5973.i
Client ID: CV0748DD-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

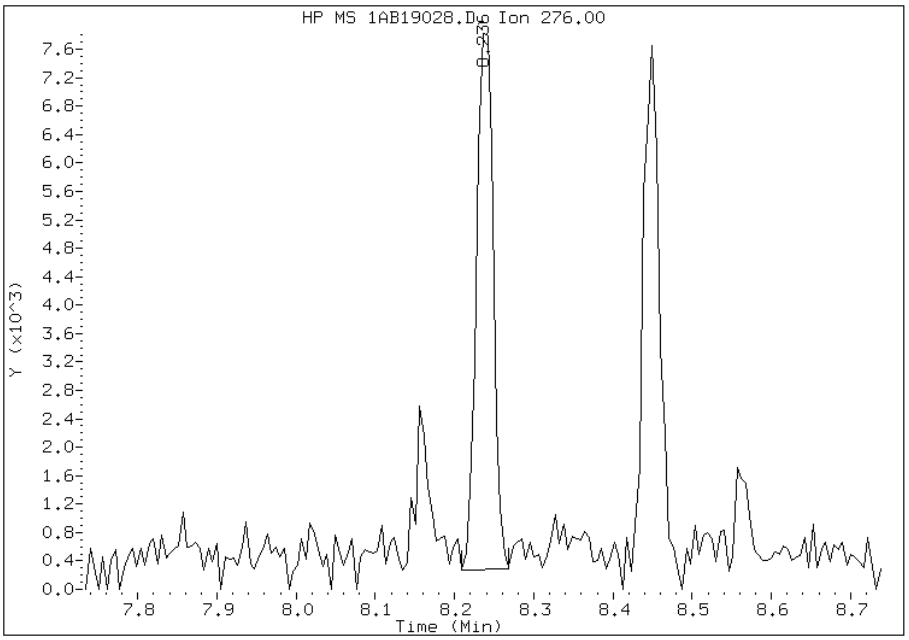
Processing Integration Results

RT: 8.24

Response: 10998

Amount: 1

Conc: 236



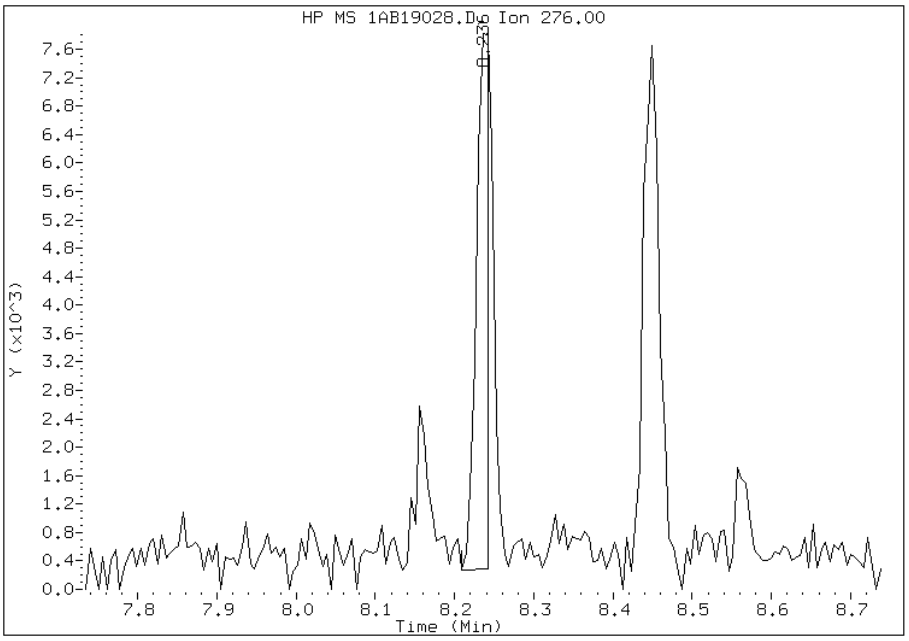
Manual Integration Results

RT: 8.24

Response: 8090

Amount: 1

Conc: 173



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748EE-CS | Lab Sample ID: 680-87320-13

Matrix: Solid | Lab File ID: 1CB19007.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:45

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

Sample wt/vol: 15.20(g) | Date Analyzed: 02/19/2013 15:23

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

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

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

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	54	J	200	25
120-12-7	Anthracene	79		43	21
56-55-3	Benzo[a]anthracene	460		41	20
50-32-8	Benzo[a]pyrene	410		53	26
205-99-2	Benzo[b]fluoranthene	630		62	31
191-24-2	Benzo[g,h,i]perylene	360		100	22
207-08-9	Benzo[k]fluoranthene	280		41	18
218-01-9	Chrysene	530		46	23
53-70-3	Dibenz(a,h)anthracene	110		100	21
206-44-0	Fluoranthene	730		100	20
86-73-7	Fluorene	37	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	220		100	36
90-12-0	1-Methylnaphthalene	220		200	22
91-57-6	2-Methylnaphthalene	180	J	200	36
91-20-3	Naphthalene	140	J	200	22
85-01-8	Phenanthrene	460		41	20
129-00-0	Pyrene	650		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19007.D
Lab Smp Id: 680-87320-A-13-A Client Smp ID: CV0748EE-CS
Inj Date : 19-FEB-2013 15:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-13-a
Misc Info : 680-87320-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 7
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	15.200	Weight Extracted
M	22.522	% 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)	1903262	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1473144	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2721244	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	108512	2.72148	924.3651
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2833832	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2695013	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	21190	0.42015	142.7074
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	17765	0.54173	183.9999
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	19757	0.66243	224.9973
5 Acenaphthylene	152	4.816	4.816	(0.982)	9288	0.15848	53.8275
9 Fluorene	166	5.239	5.245	(1.068)	5147	0.10908	37.0503(Q)
11 Phenanthrene	178	5.874	5.874	(1.003)	109918	1.35322	459.6269
12 Anthracene	178	5.904	5.910	(1.008)	16954	0.23167	78.6863
13 Carbazole	167	6.015	6.015	(1.027)	12261	0.19288	65.5122

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)	170122	2.14340	728.0158
16 Pyrene	202	6.880	6.886	(0.882)	143289	1.89929	645.1036
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	105393	1.34865	458.0775
19 Chrysene	228	7.821	7.827	(1.002)	126013	1.56108	530.2303
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	122943	1.86072	632.0026(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.961)	60038	0.82481	280.1497(QM)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	75801	1.20564	409.5016
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.251	(1.134)	38316	0.63450	215.5128(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.268	(1.136)	19161	0.33647	114.2855
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	64734	1.05531	358.4404(M)

QC Flag Legend

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

Data File: 1CB19007.D

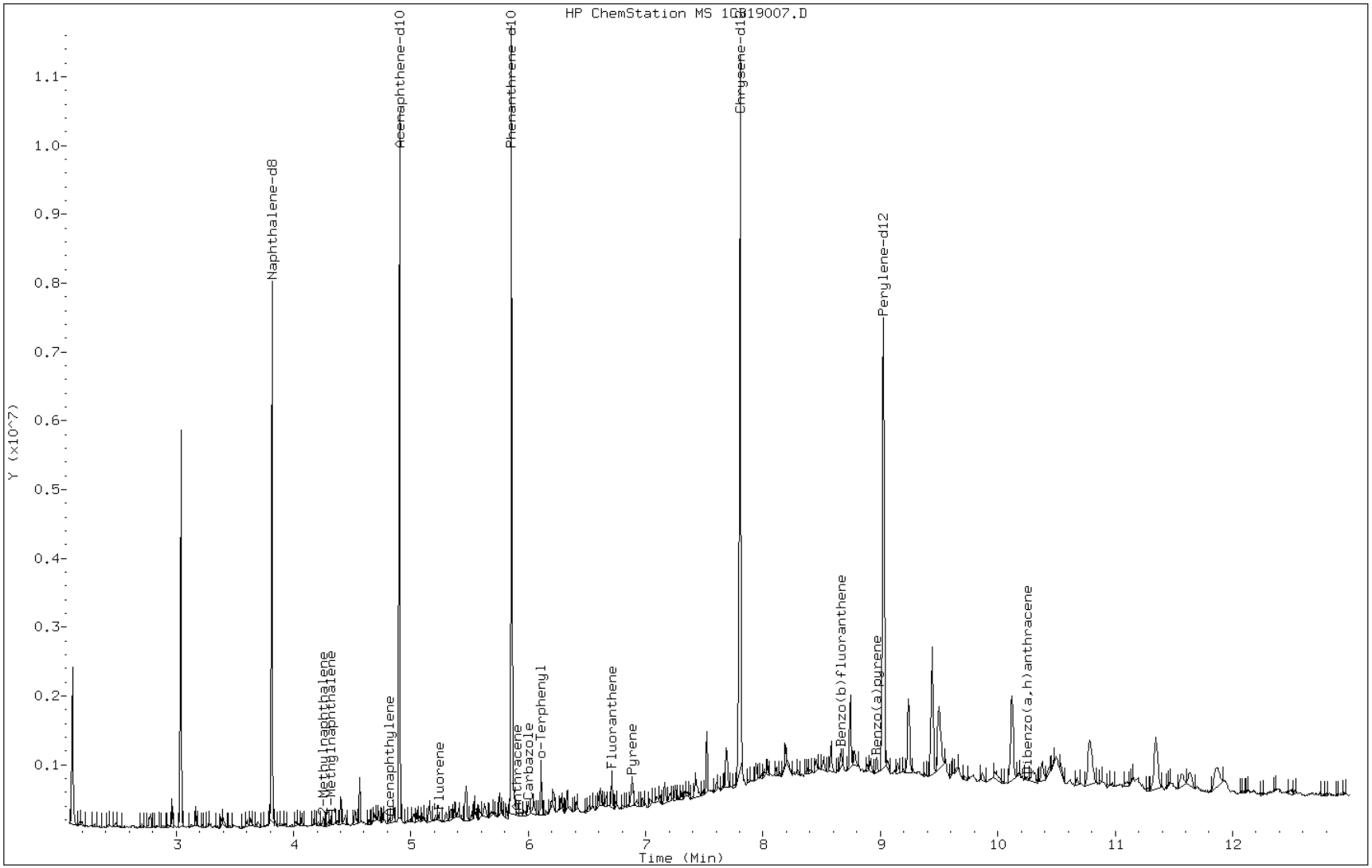
Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a

Operator: SCC



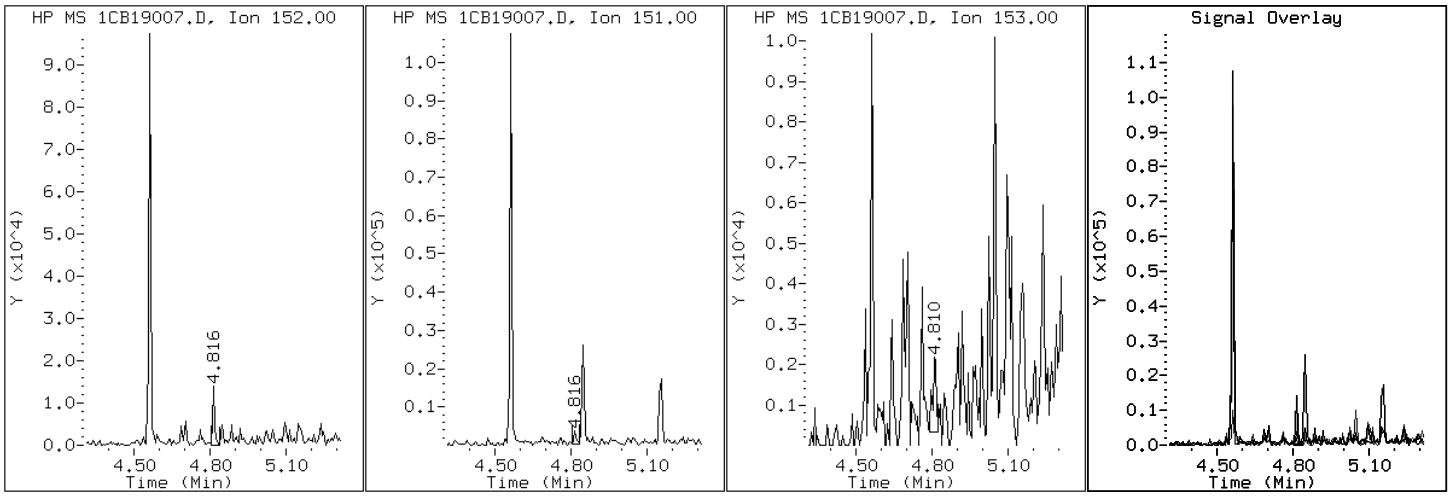
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

5 Acenaphthylene



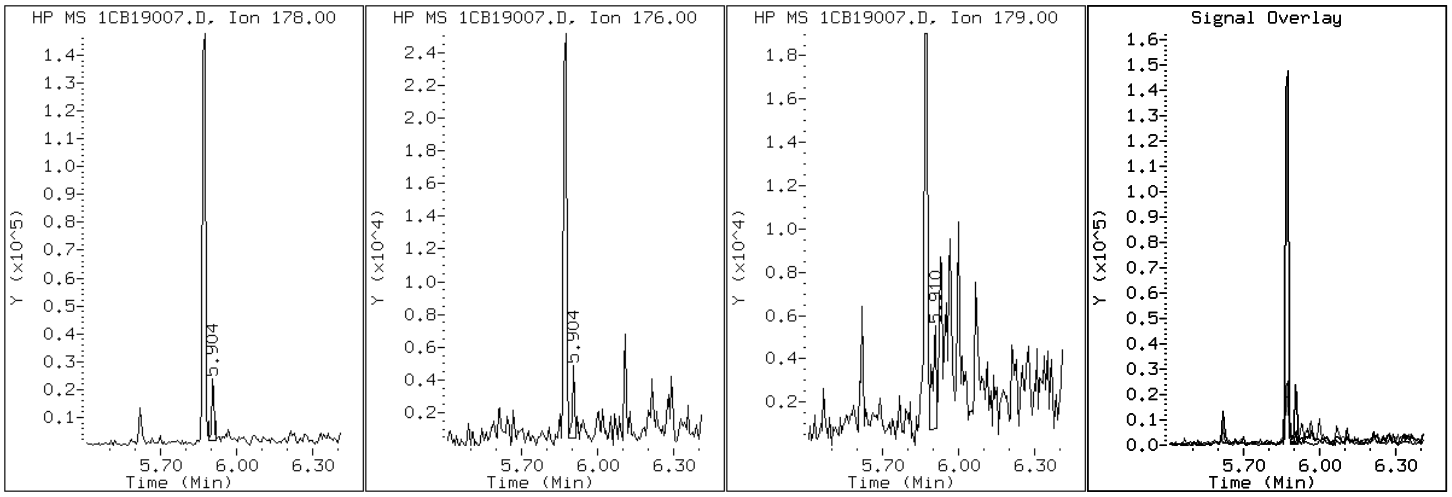
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

12 Anthracene



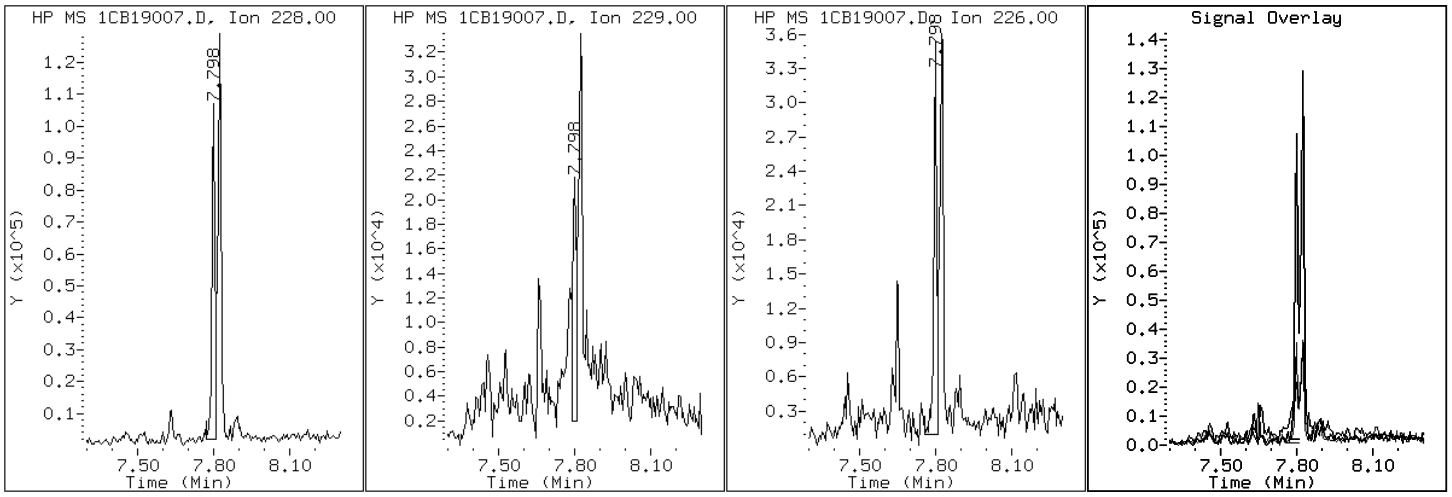
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

17 Benzo(a)anthracene



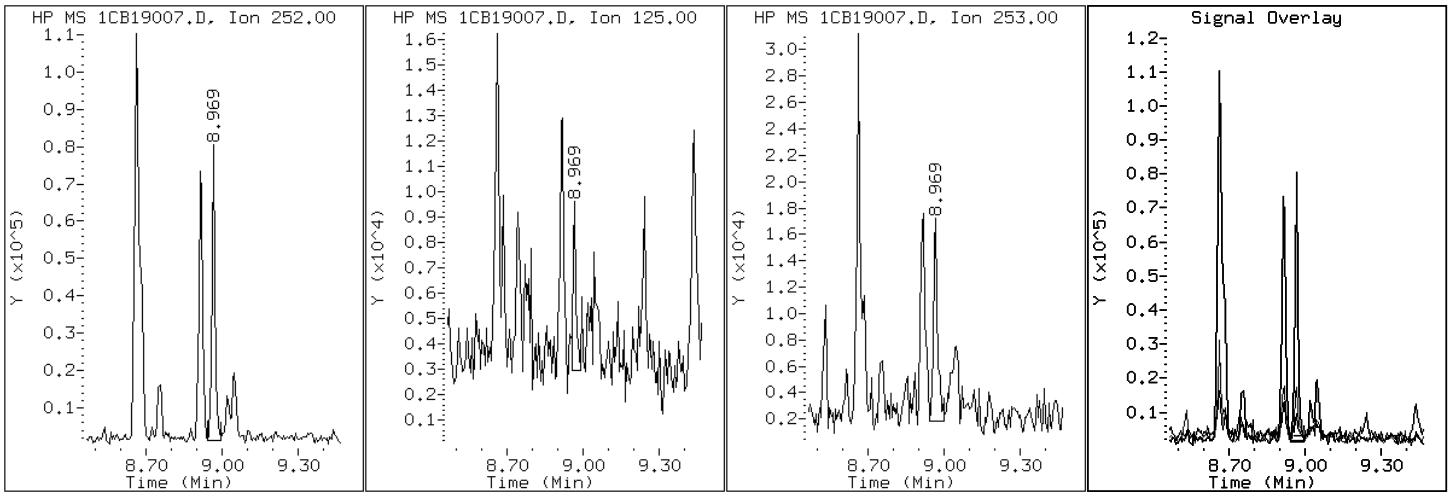
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

22 Benzo(a)pyrene



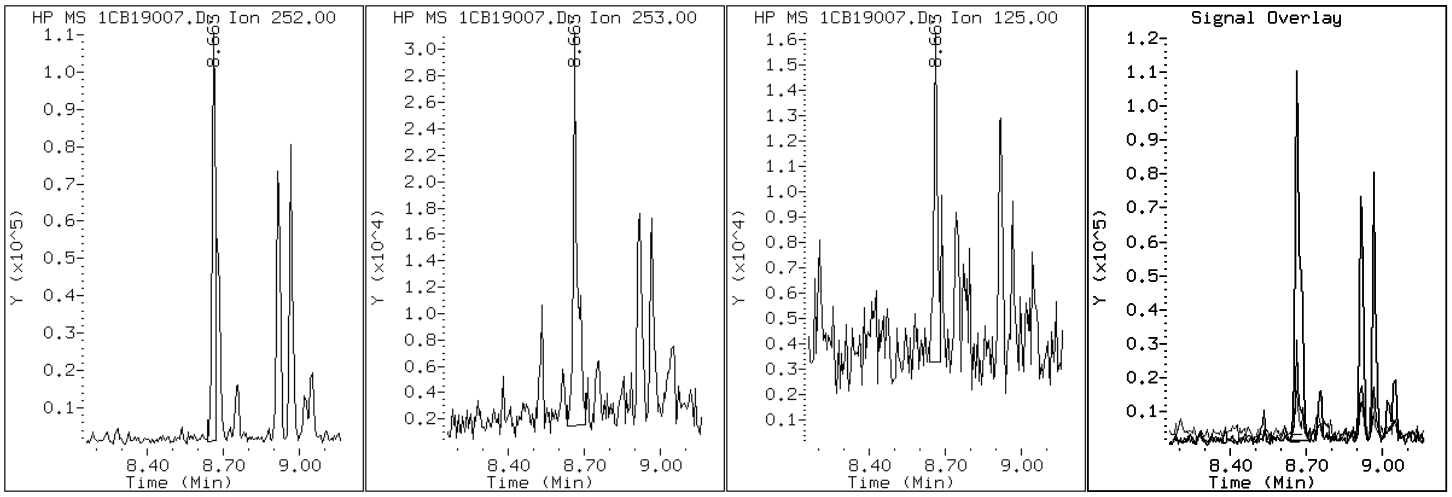
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

20 Benzo(b)fluoranthene



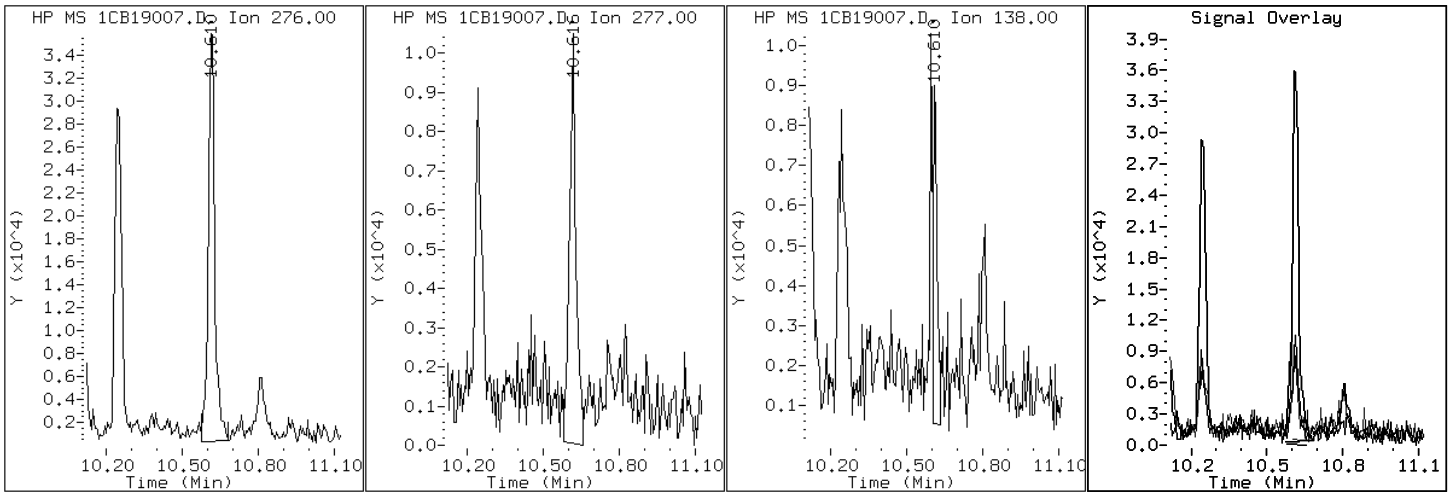
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

26 Benzo(g,h,i)perylene



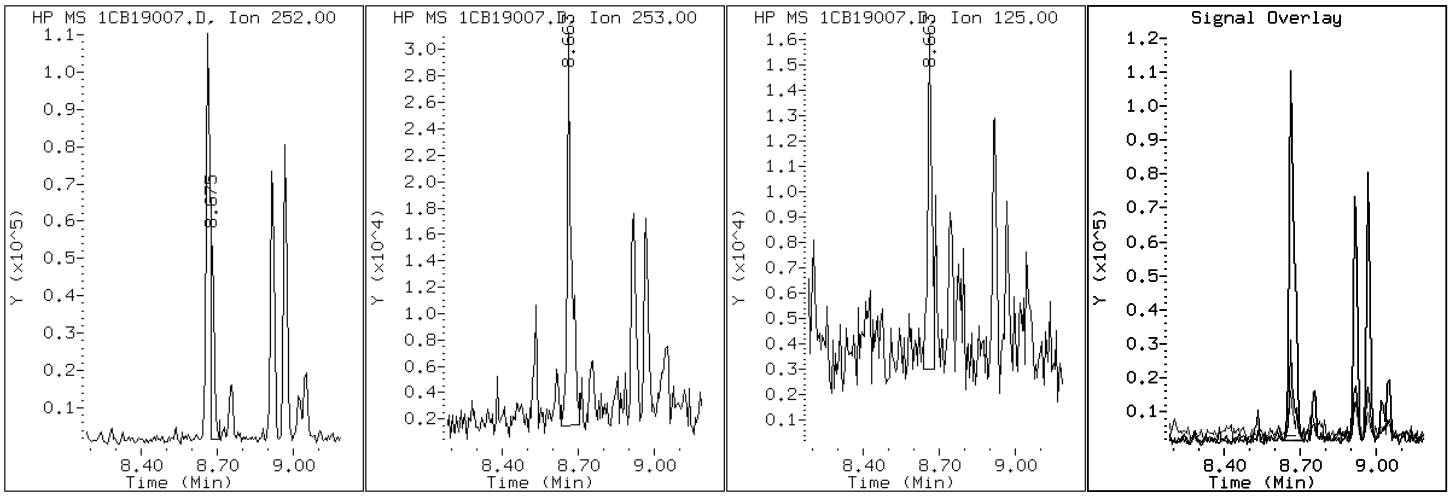
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

21 Benzo(k)fluoranthene



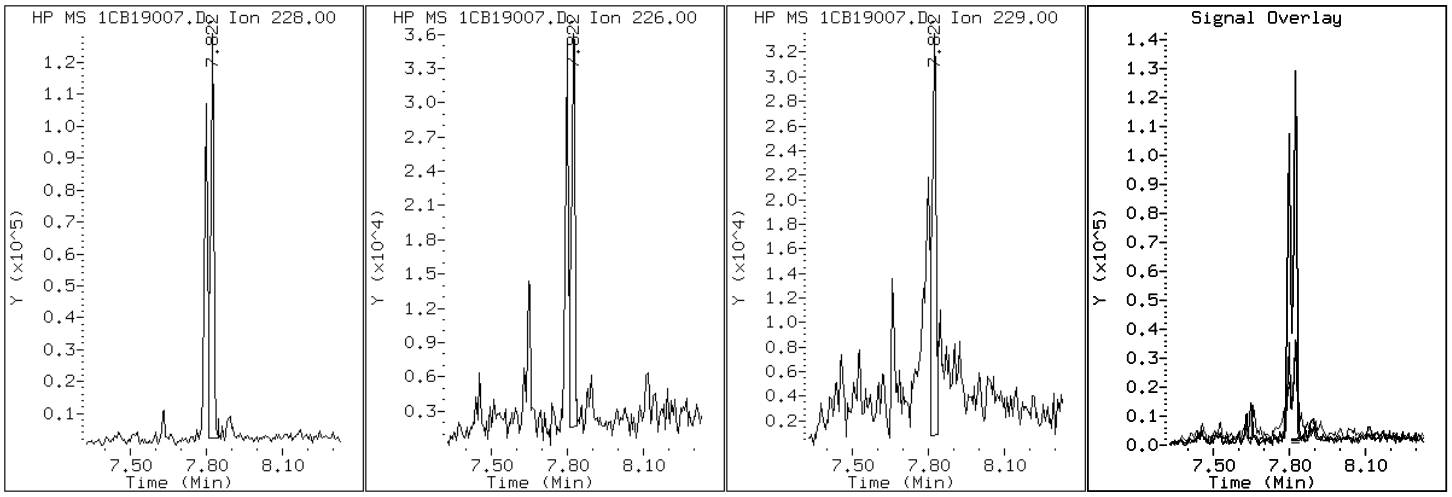
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

19 Chrysene



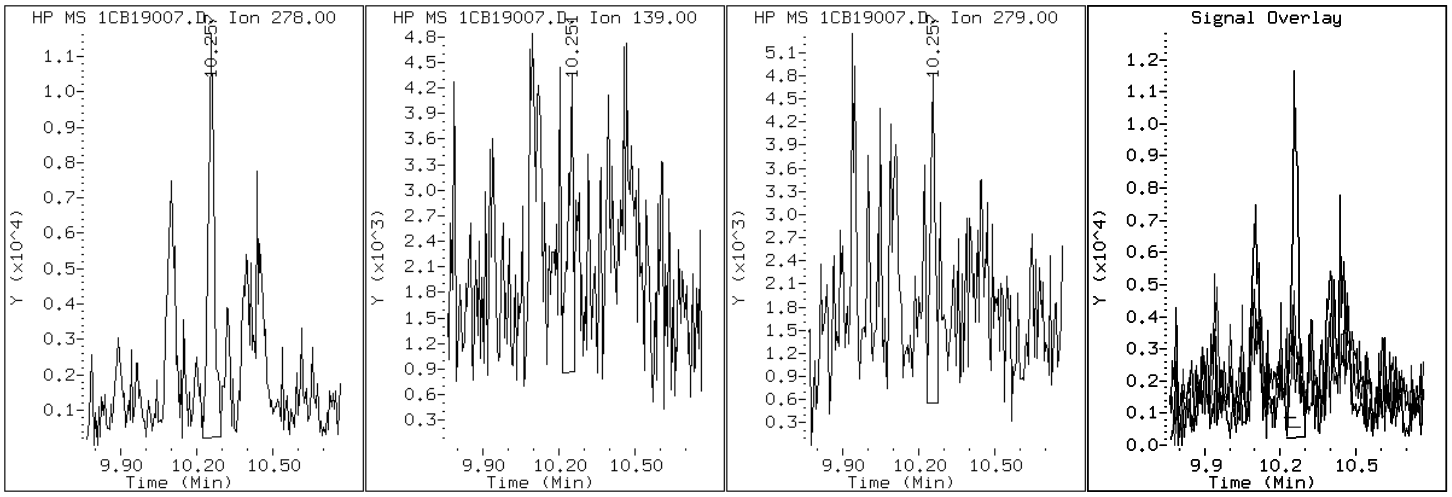
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

25 Dibenzo(a,h)anthracene



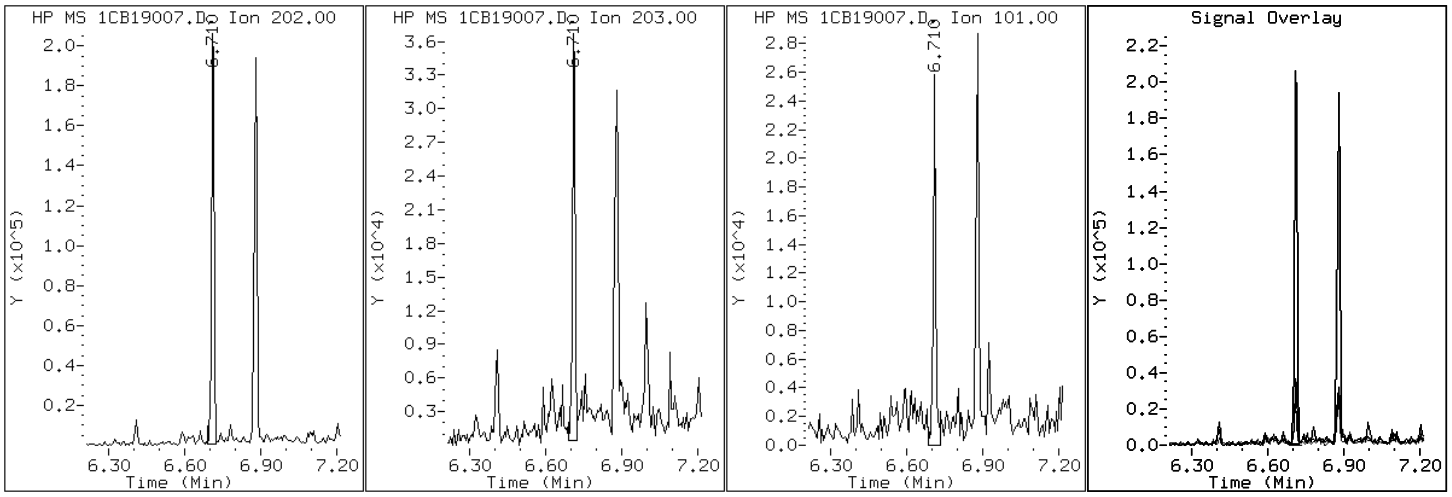
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

15 Fluoranthene



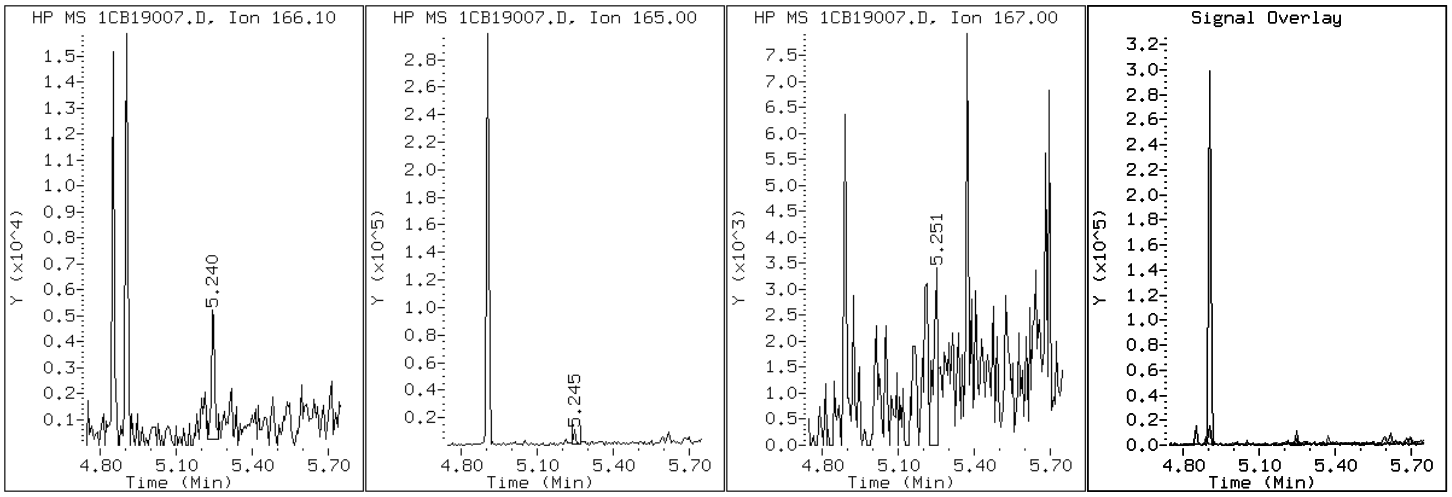
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

9 Fluorene



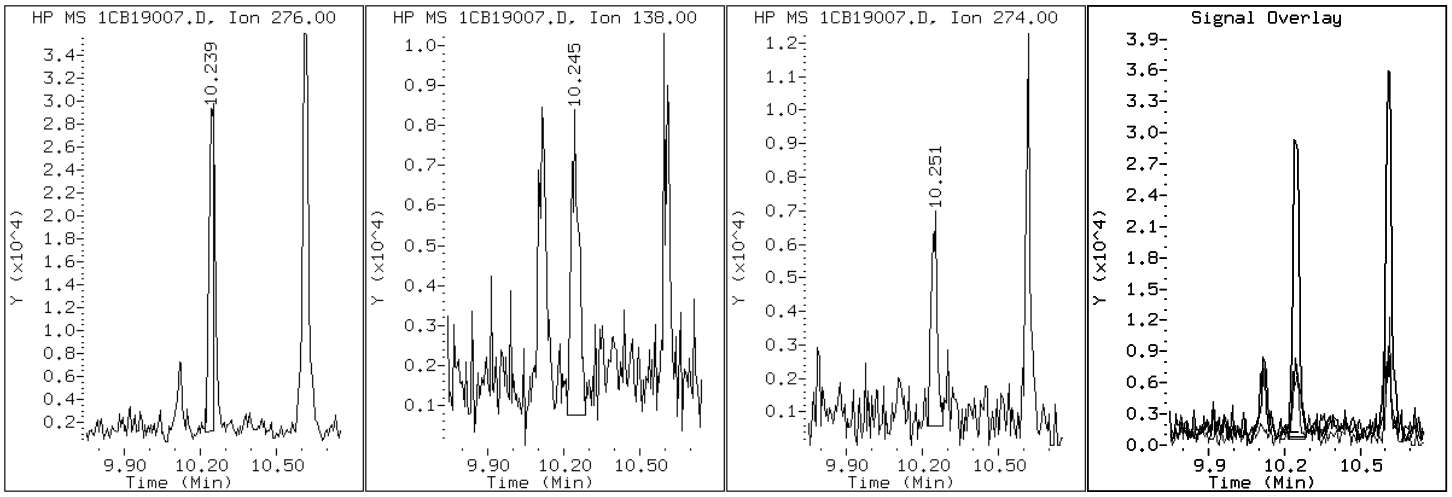
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

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



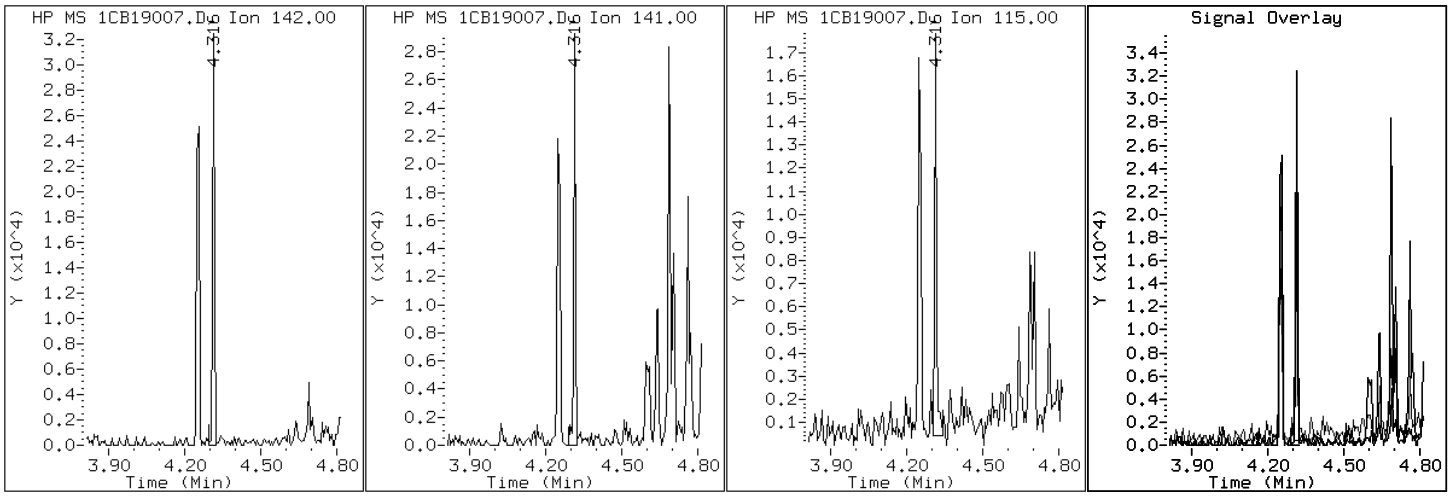
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

4 1-Methylnaphthalene



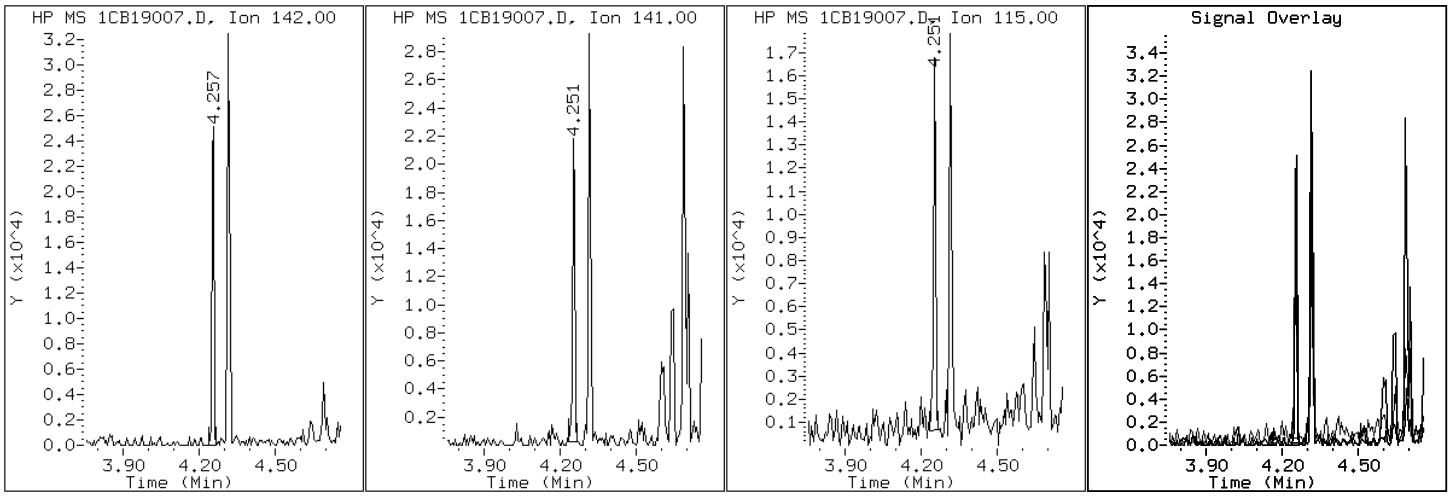
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

3 2-Methylnaphthalene



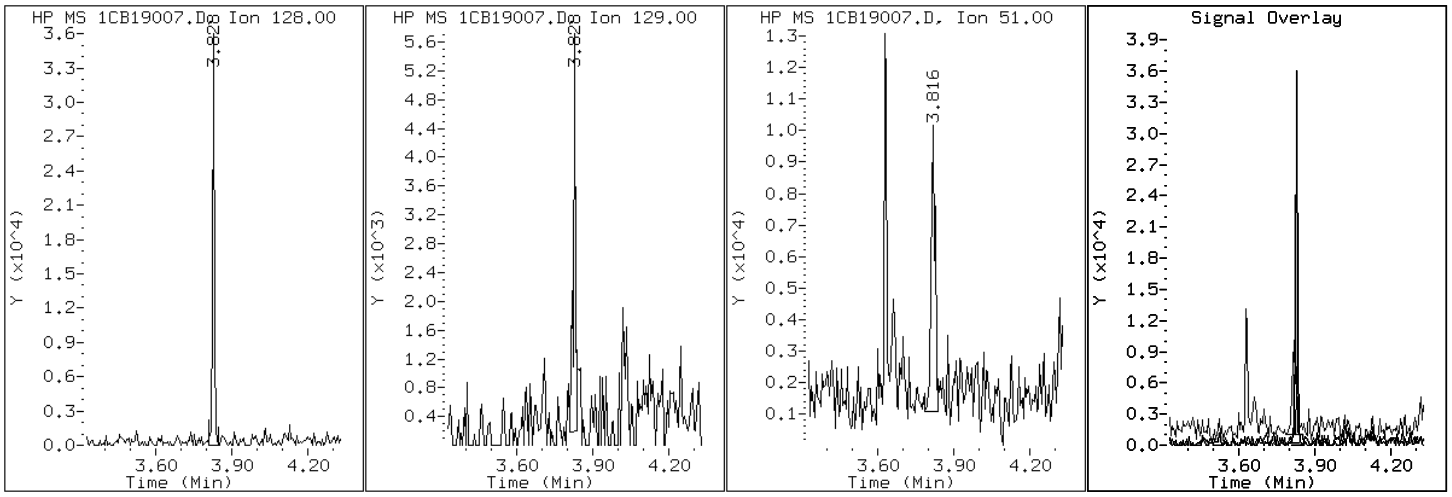
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

2 Naphthalene



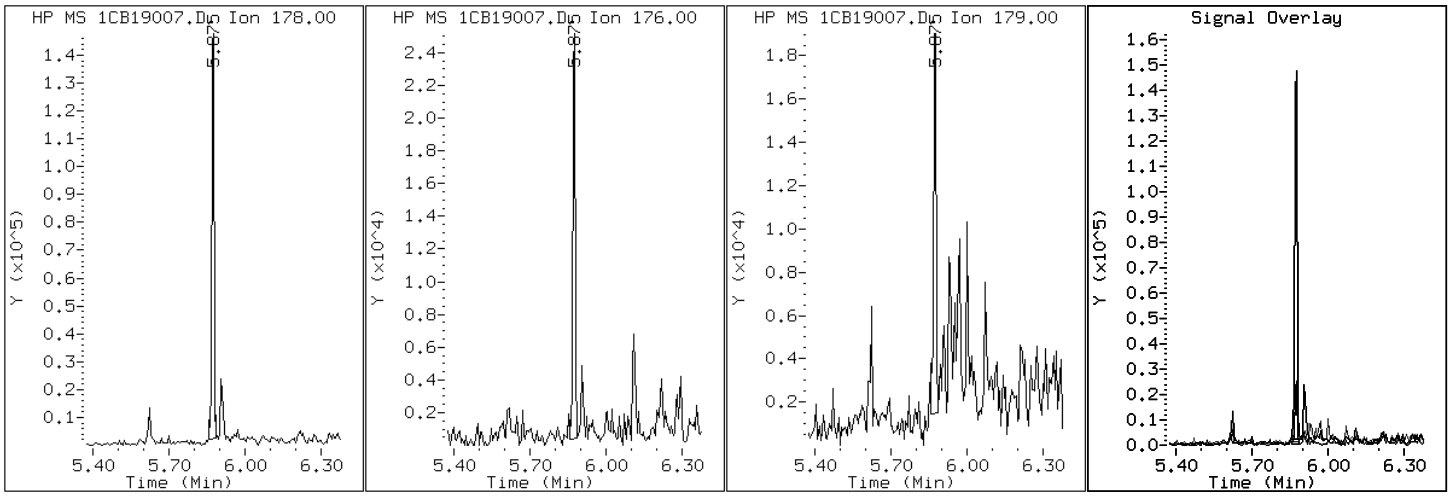
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

11 Phenanthrene



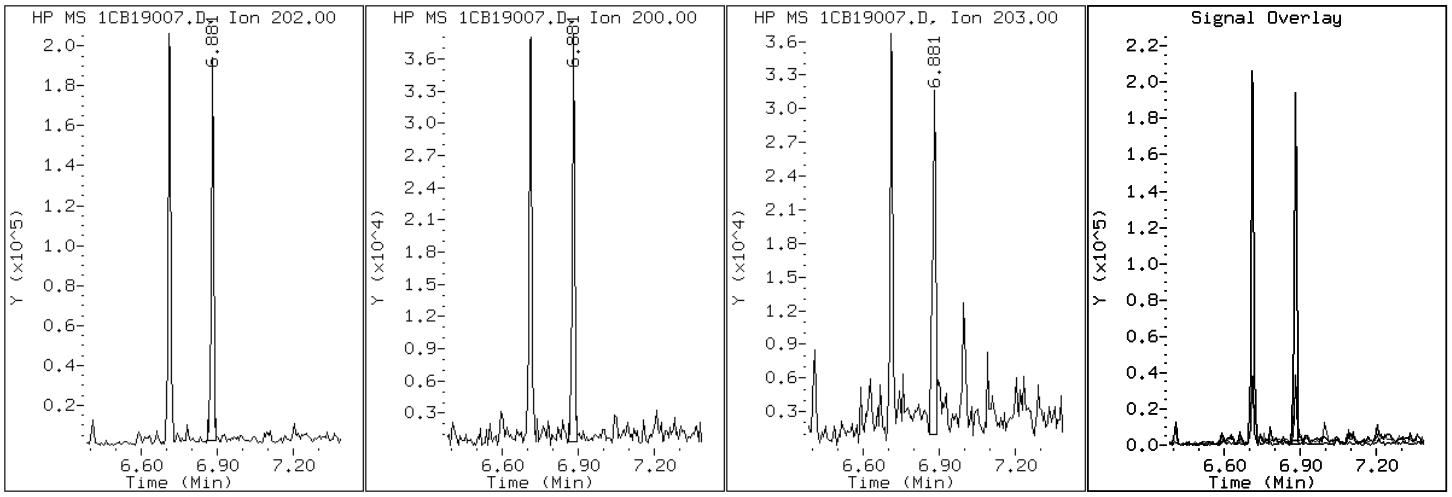
Data File: 1CB19007.D

Date: 19-FEB-2013 15:23

Client ID: CV0748EE-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-13-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19007.D
Inj. Date and Time: 19-FEB-2013 15:23
Instrument ID: BSMC5973.i
Client ID: CV0748EE-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

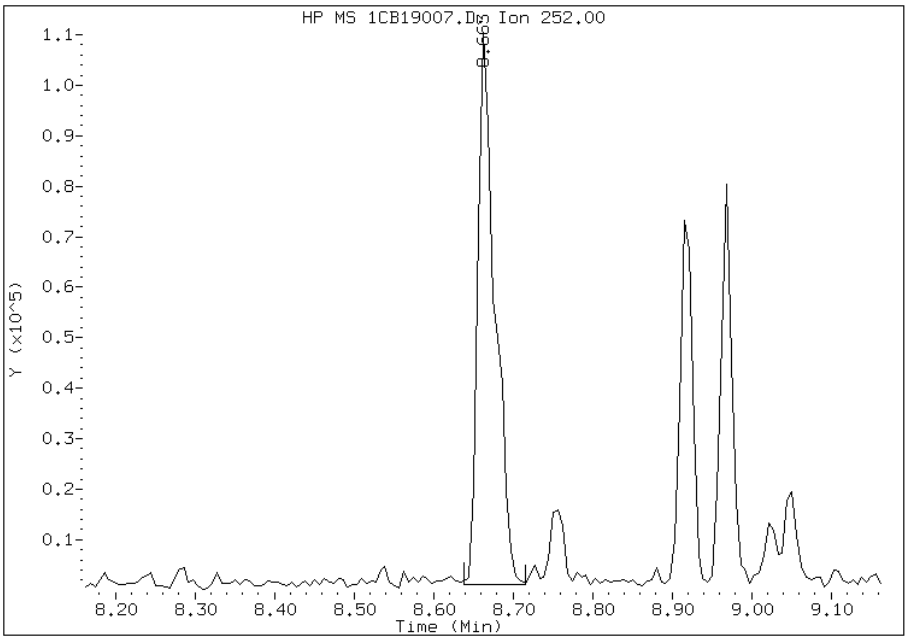
Processing Integration Results

RT: 8.66

Response: 163951

Amount: 2

Conc: 843



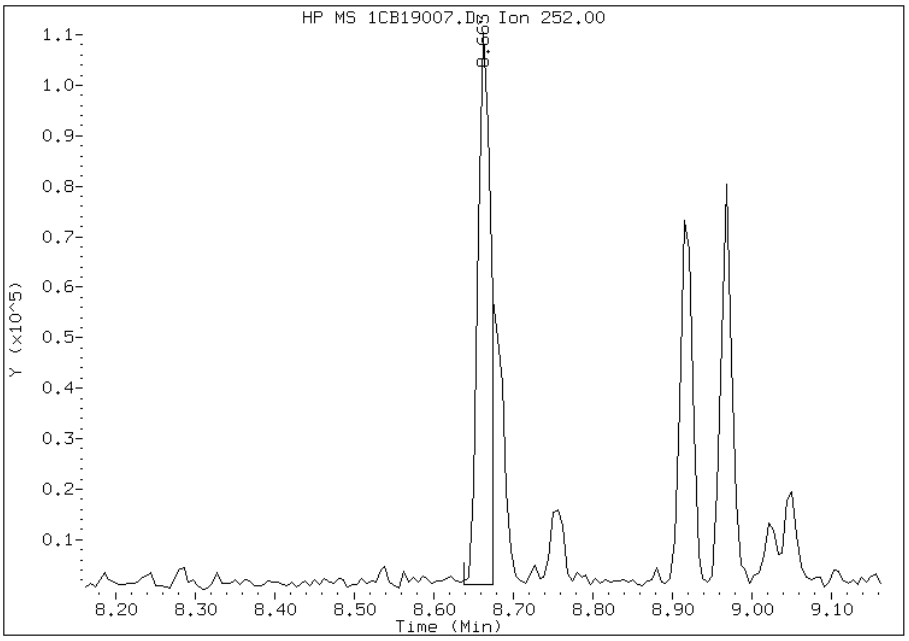
Manual Integration Results

RT: 8.66

Response: 122943

Amount: 2

Conc: 632



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:25
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19007.D
Inj. Date and Time: 19-FEB-2013 15:23
Instrument ID: BSMC5973.i
Client ID: CV0748EE-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/20/2013

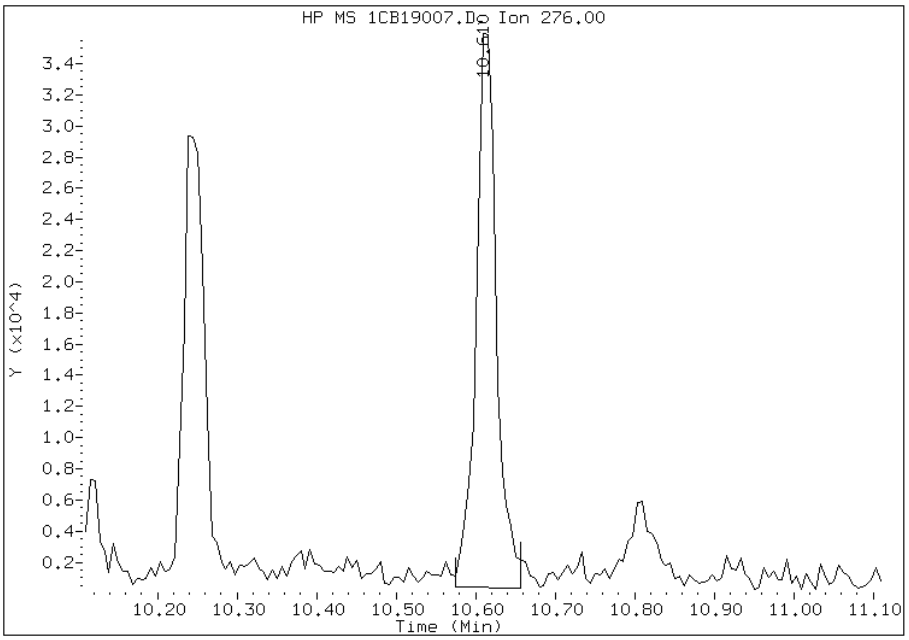
Processing Integration Results

RT: 10.61

Response: 63772

Amount: 1

Conc: 353



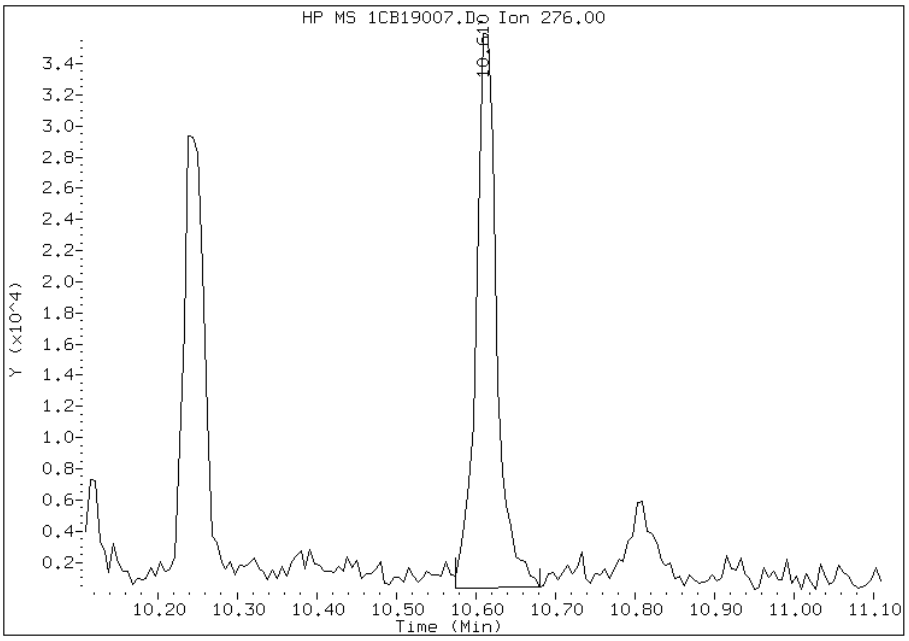
Manual Integration Results

RT: 10.61

Response: 64734

Amount: 1

Conc: 358



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19007.D
Inj. Date and Time: 19-FEB-2013 15:23
Instrument ID: BSMC5973.i
Client ID: CV0748EE-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

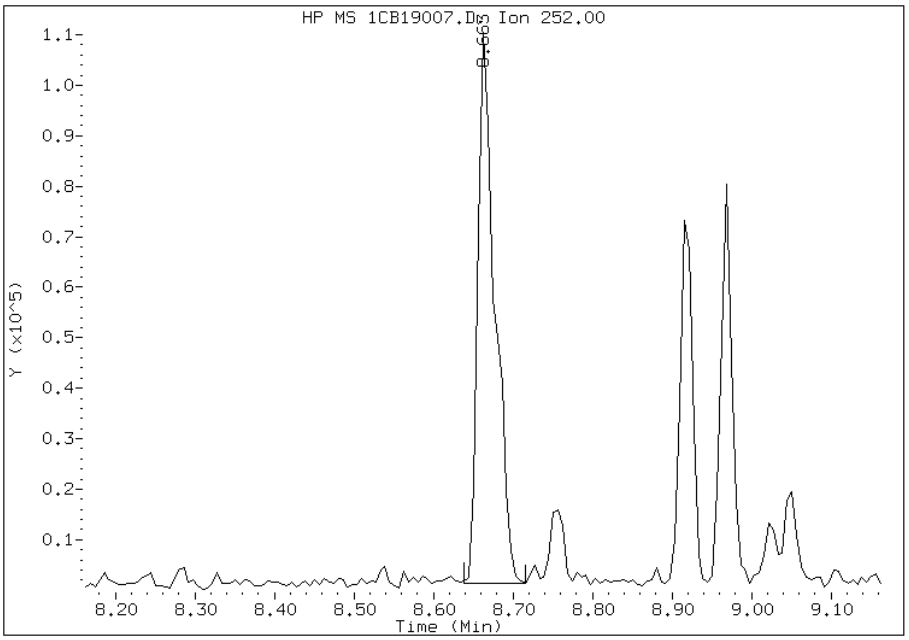
Processing Integration Results

RT: 8.66

Response: 163055

Amount: 2

Conc: 761



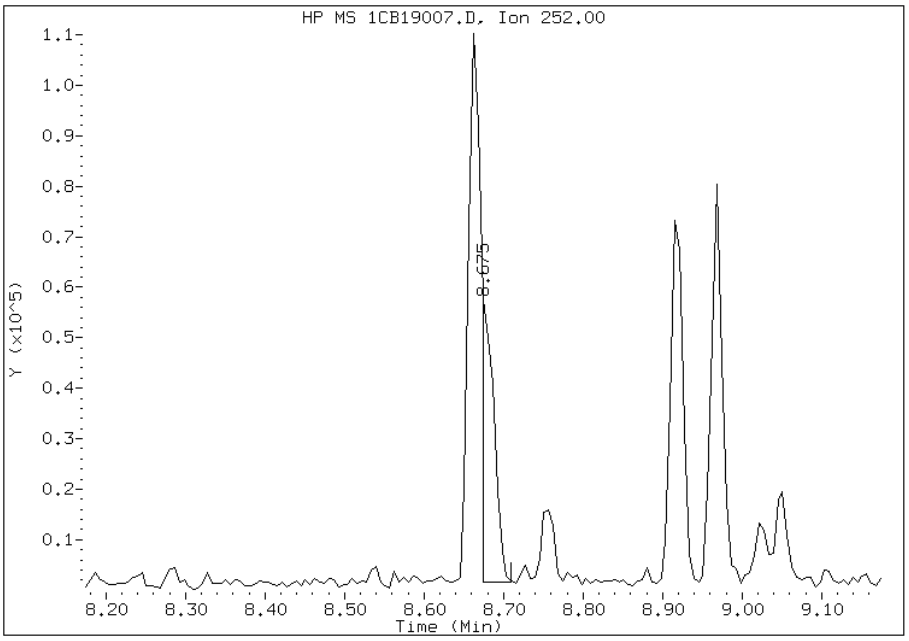
Manual Integration Results

RT: 8.67

Response: 60038

Amount: 1

Conc: 280



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19007.D
Inj. Date and Time: 19-FEB-2013 15:23
Instrument ID: BSMC5973.i
Client ID: CV0748EE-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

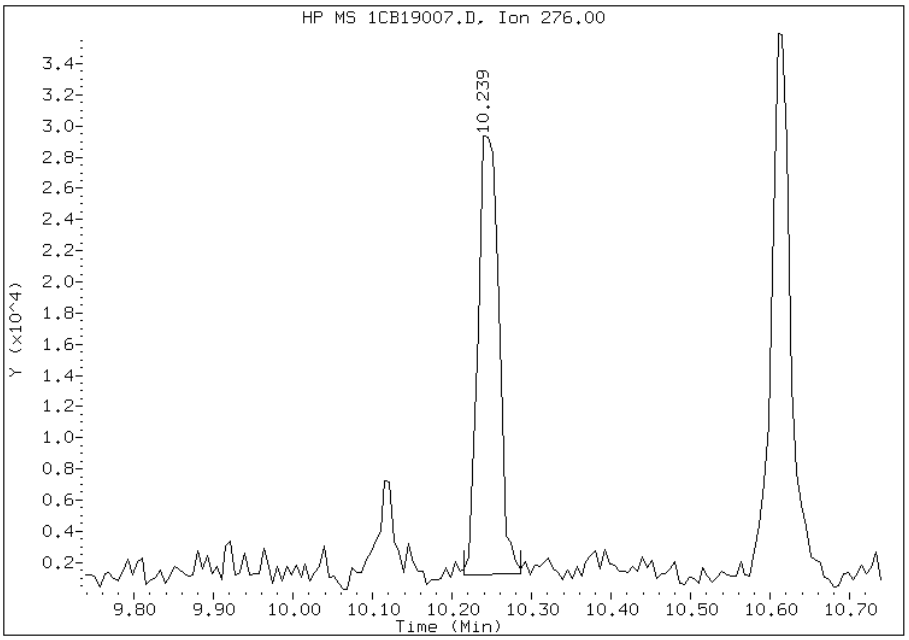
Processing Integration Results

RT: 10.24

Response: 50788

Amount: 1

Conc: 286



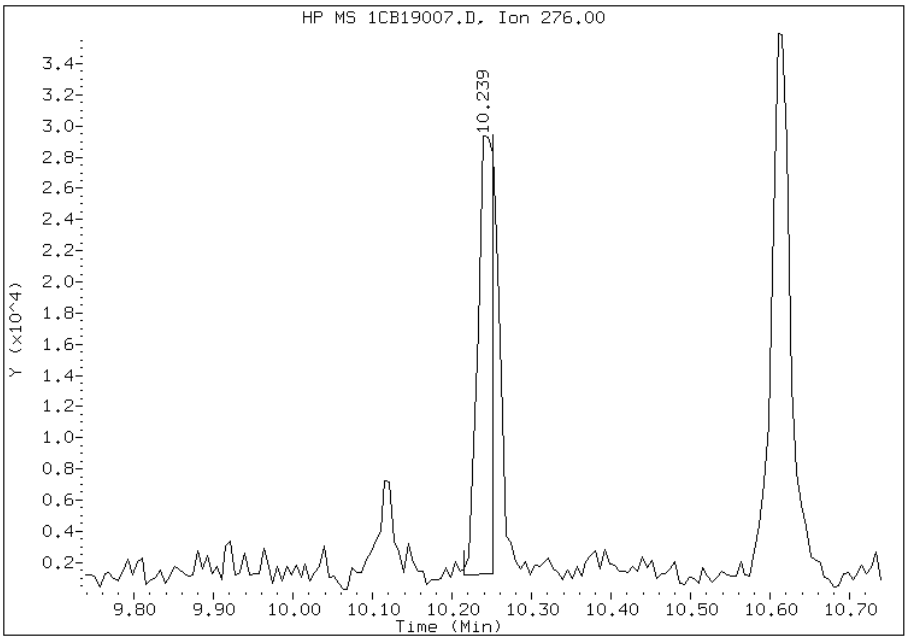
Manual Integration Results

RT: 10.24

Response: 38316

Amount: 1

Conc: 216



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748II-CS | Lab Sample ID: 680-87320-14

Matrix: Solid | Lab File ID: 1CB19008.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:11

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

Sample wt/vol: 15.09(g) | Date Analyzed: 02/19/2013 15:41

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

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

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

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	41	J	210	26
120-12-7	Anthracene	55		44	22
56-55-3	Benzo[a]anthracene	380		42	20
50-32-8	Benzo[a]pyrene	320		54	27
205-99-2	Benzo[b]fluoranthene	530		64	32
191-24-2	Benzo[g,h,i]perylene	280		100	23
207-08-9	Benzo[k]fluoranthene	210		42	19
218-01-9	Chrysene	450		47	23
53-70-3	Dibenz(a,h)anthracene	89	J	100	21
206-44-0	Fluoranthene	540		100	21
86-73-7	Fluorene	29	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	220		100	37
90-12-0	1-Methylnaphthalene	280		210	23
91-57-6	2-Methylnaphthalene	320		210	37
91-20-3	Naphthalene	190	J	210	23
85-01-8	Phenanthrene	390		42	20
129-00-0	Pyrene	510		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19008.D
Lab Smp Id: 680-87320-A-14-A Client Smp ID: CV0748II-CS
Inj Date : 19-FEB-2013 15:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-14-a
Misc Info : 680-87320-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 8
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	23.759	% 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)	2038005	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1588155	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2889581	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	108686	2.56704	892.5164
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	3003938	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2828739	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	29469	0.54568	189.7223
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	32456	0.92428	321.3550
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	25712	0.80509	279.9173
5 Acenaphthylene	152	4.815	4.816	(0.982)	7488	0.11851	41.2045
9 Fluorene	166	5.239	5.245	(1.068)	4221	0.08298	28.8502(Q)
11 Phenanthrene	178	5.874	5.874	(1.003)	96328	1.11682	388.2987
12 Anthracene	178	5.904	5.910	(1.008)	12217	0.15721	54.6598
13 Carbazole	167	6.015	6.015	(1.027)	11403	0.16893	58.7344

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)	132008	1.56630	544.5746
16 Pyrene	202	6.880	6.886	(0.882)	116241	1.45352	505.3629
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	90301	1.09009	379.0069
19 Chrysene	228	7.821	7.827	(1.002)	109786	1.28304	446.0911
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	106500	1.53566	533.9208
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	45787	0.59929	208.3619
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	60418	0.91554	318.3165
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.251	(1.135)	40414	0.63761	221.6853(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	15352	0.25684	89.2997(M)
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	51019	0.79240	275.5045(M)

QC Flag Legend

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

Data File: 1CB19008.D

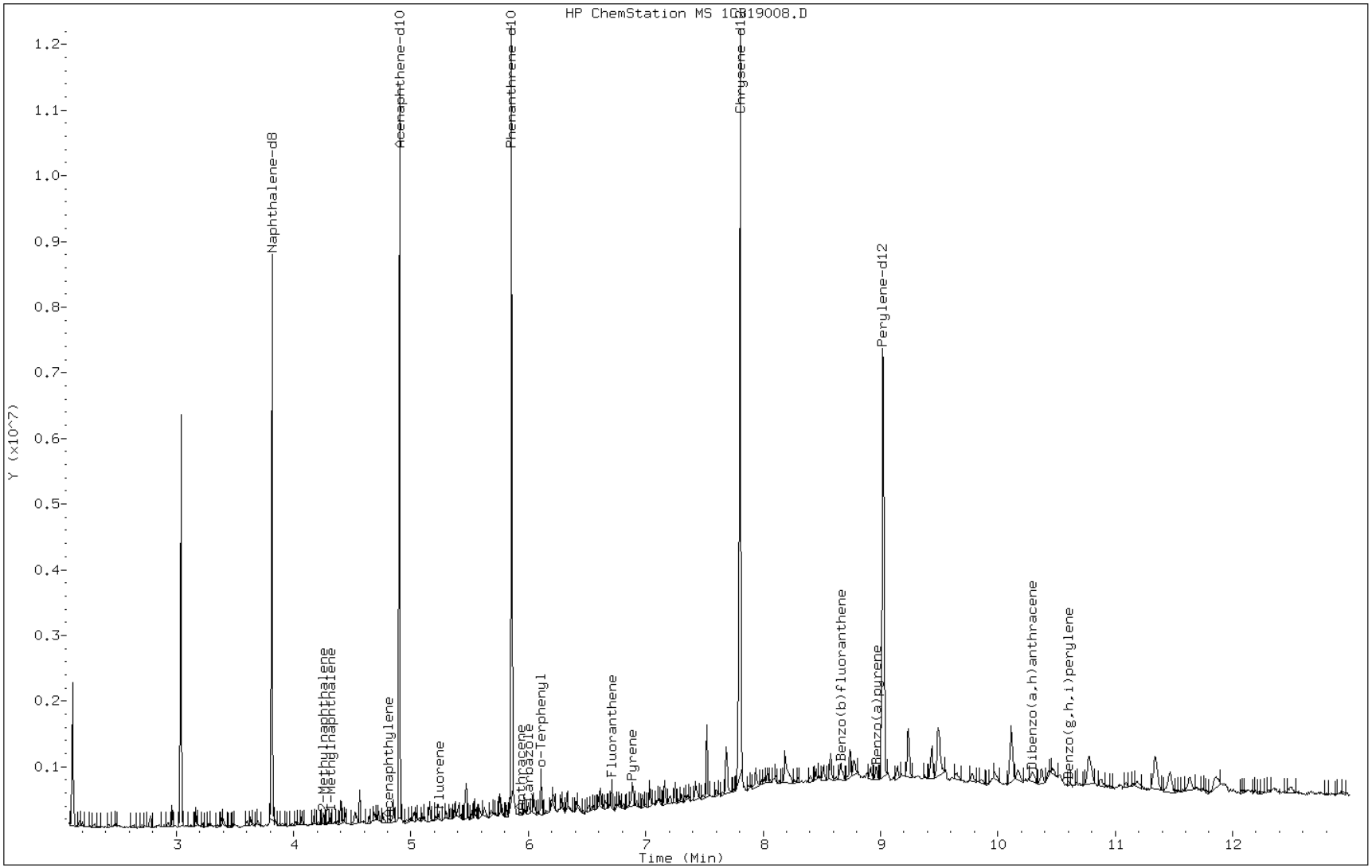
Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a

Operator: SCC



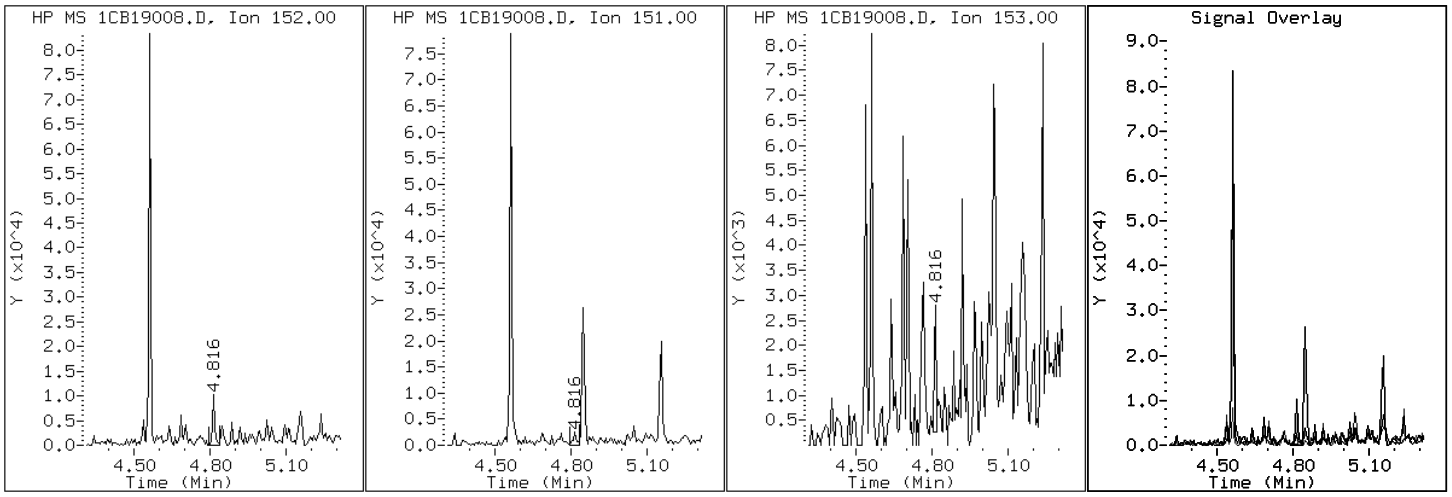
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

5 Acenaphthylene



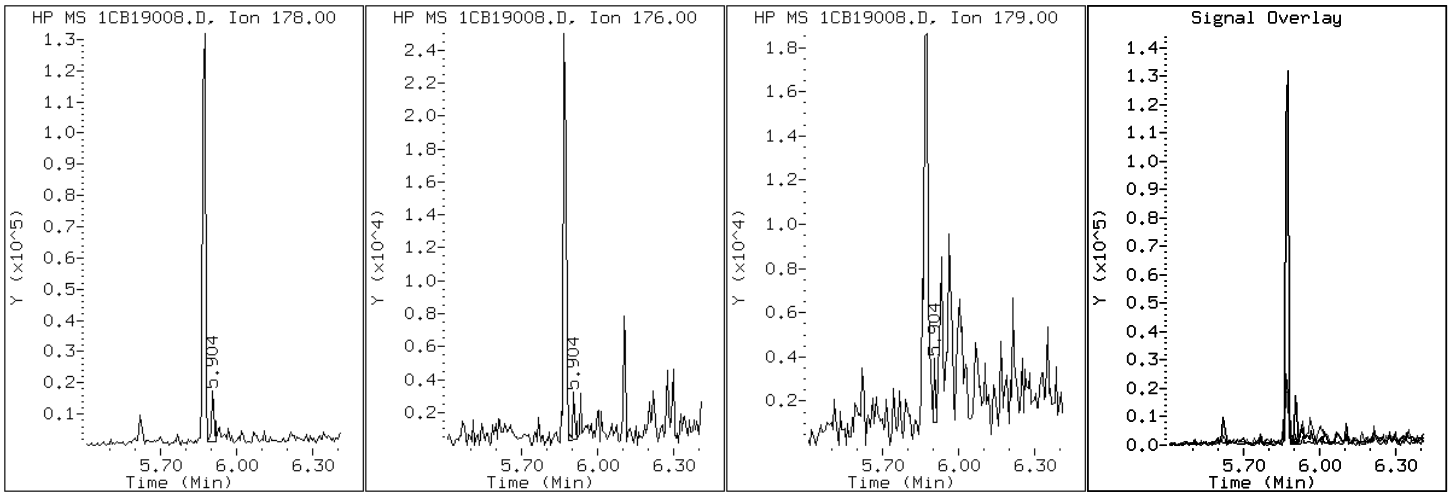
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

12 Anthracene



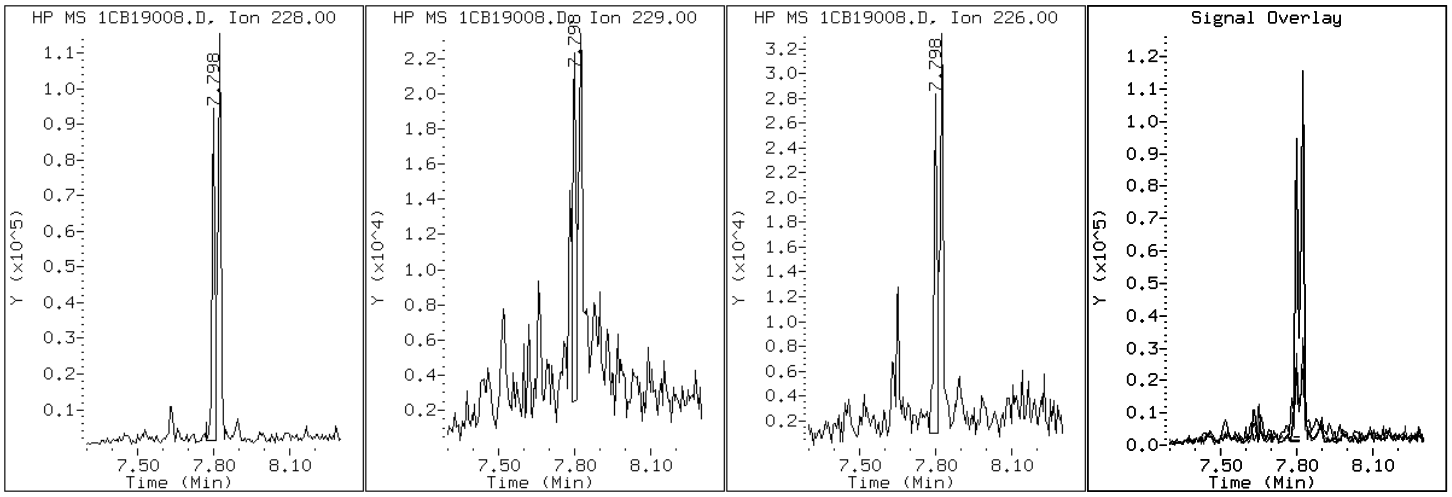
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

17 Benzo(a)anthracene



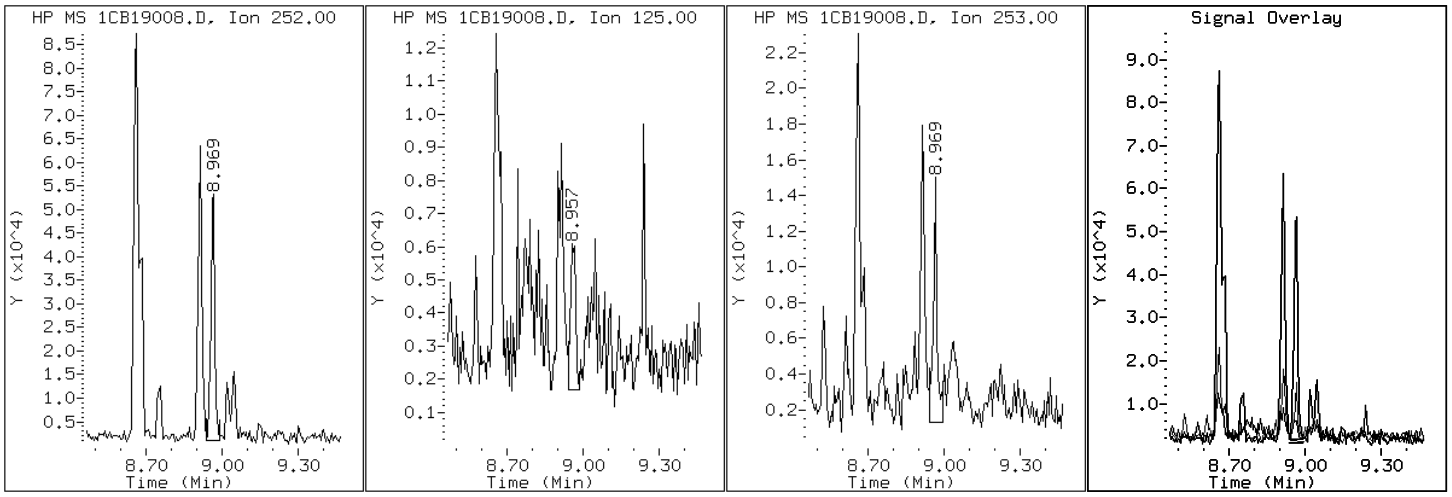
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

22 Benzo(a)pyrene



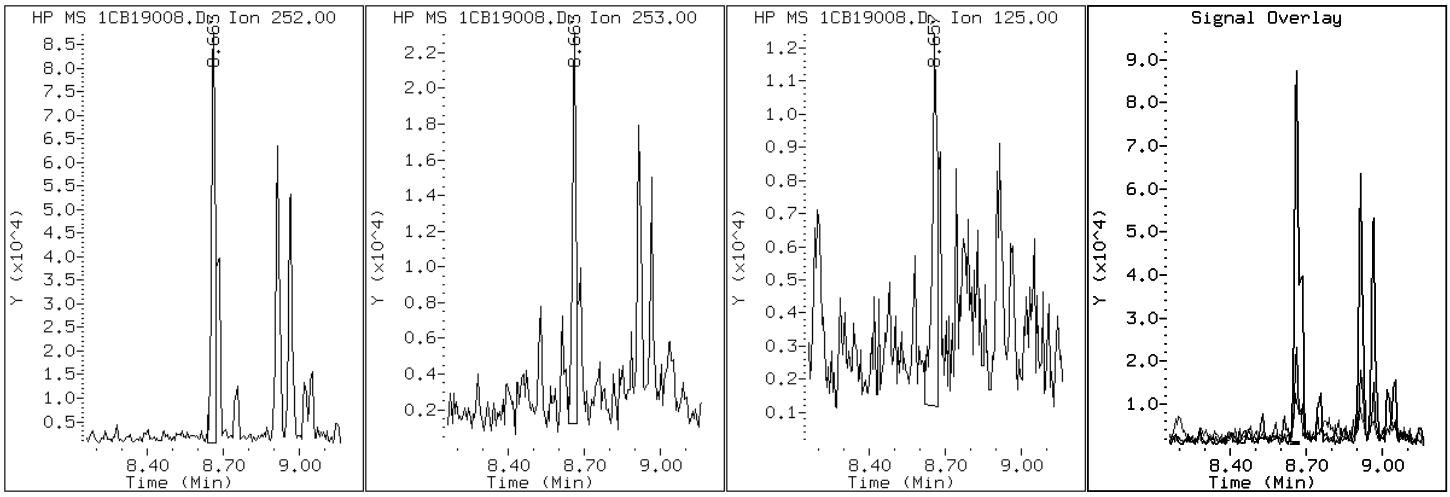
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

20 Benzo(b)fluoranthene



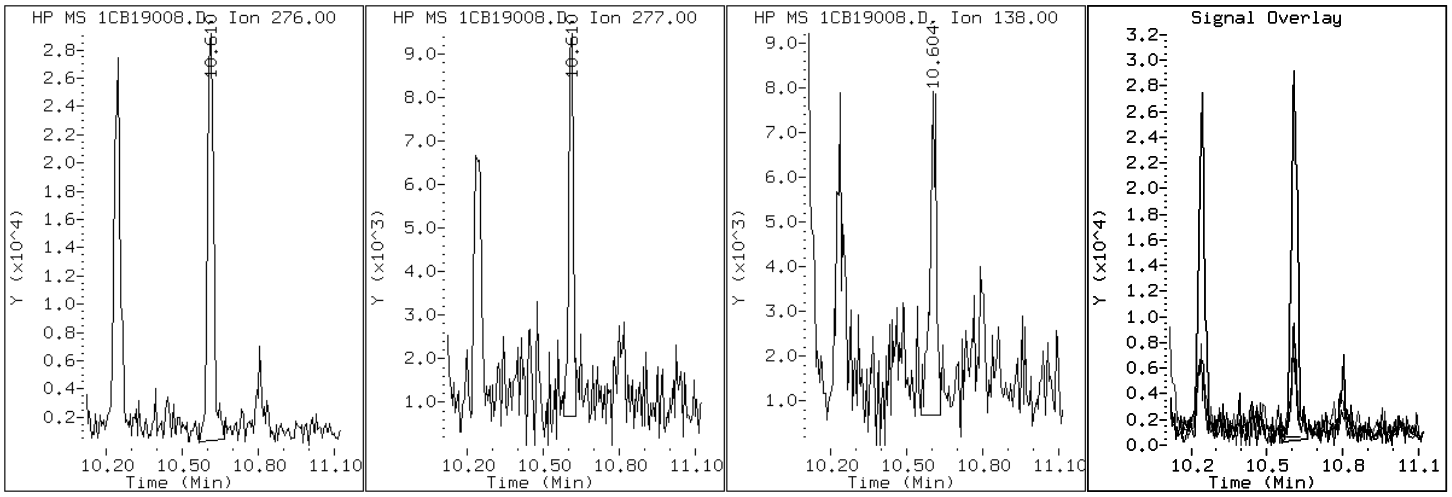
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

26 Benzo(g,h,i)perylene



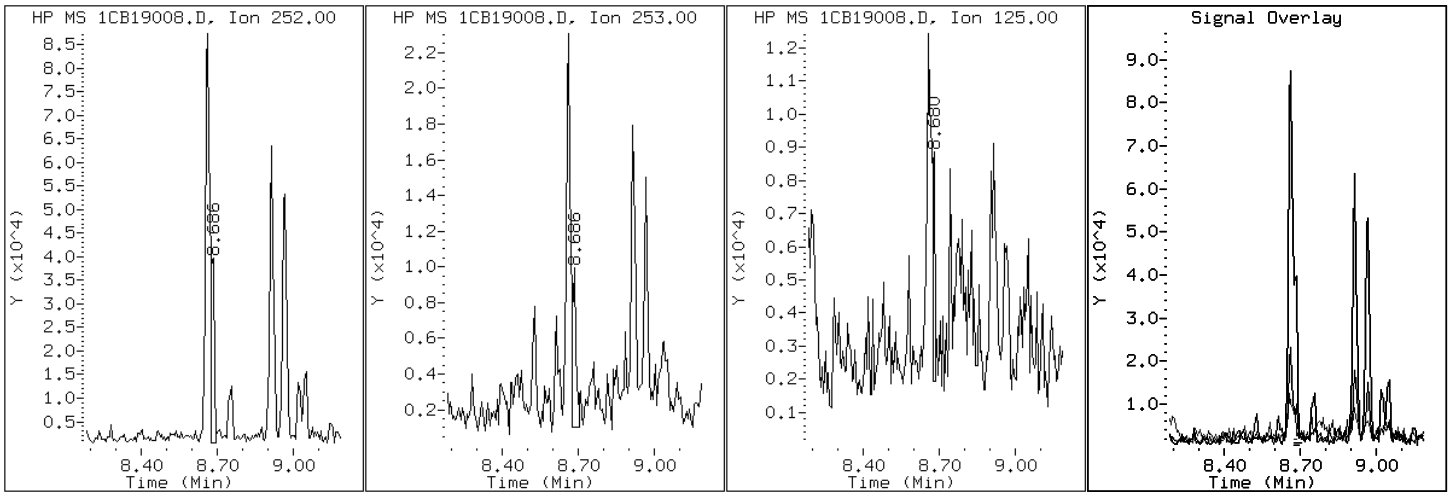
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

21 Benzo(k)fluoranthene



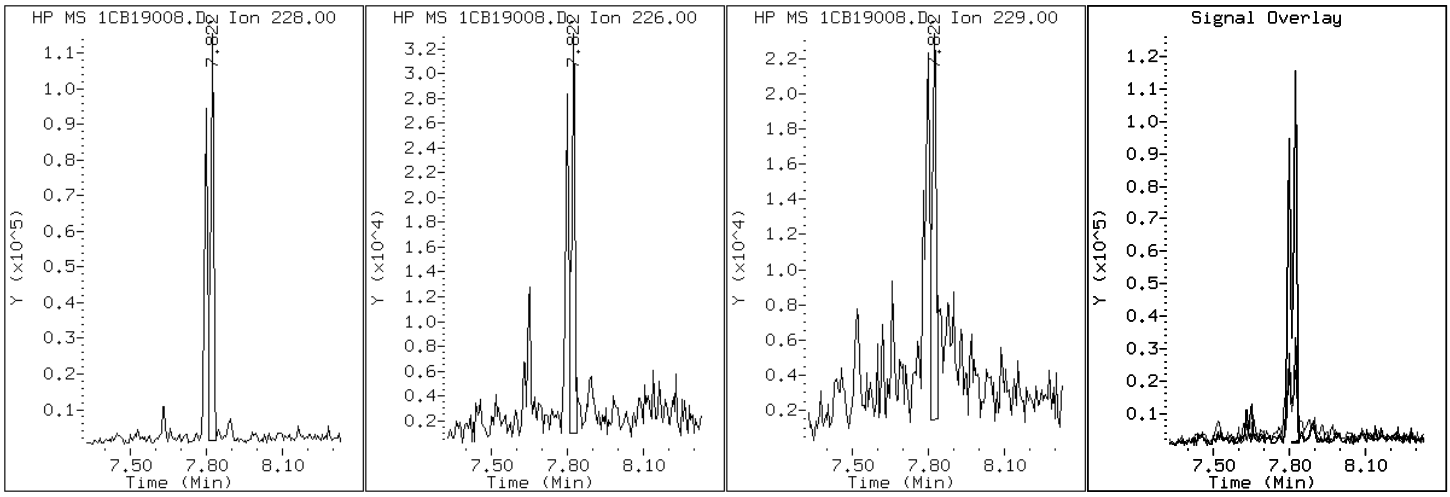
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

19 Chrysene



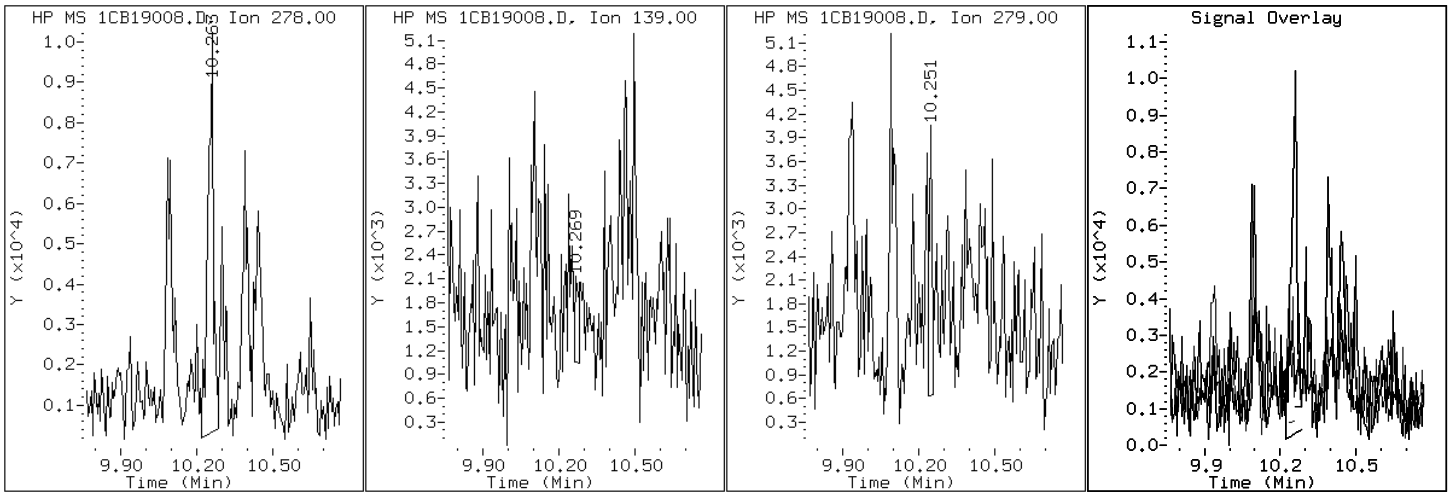
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

25 Dibenzo(a,h)anthracene



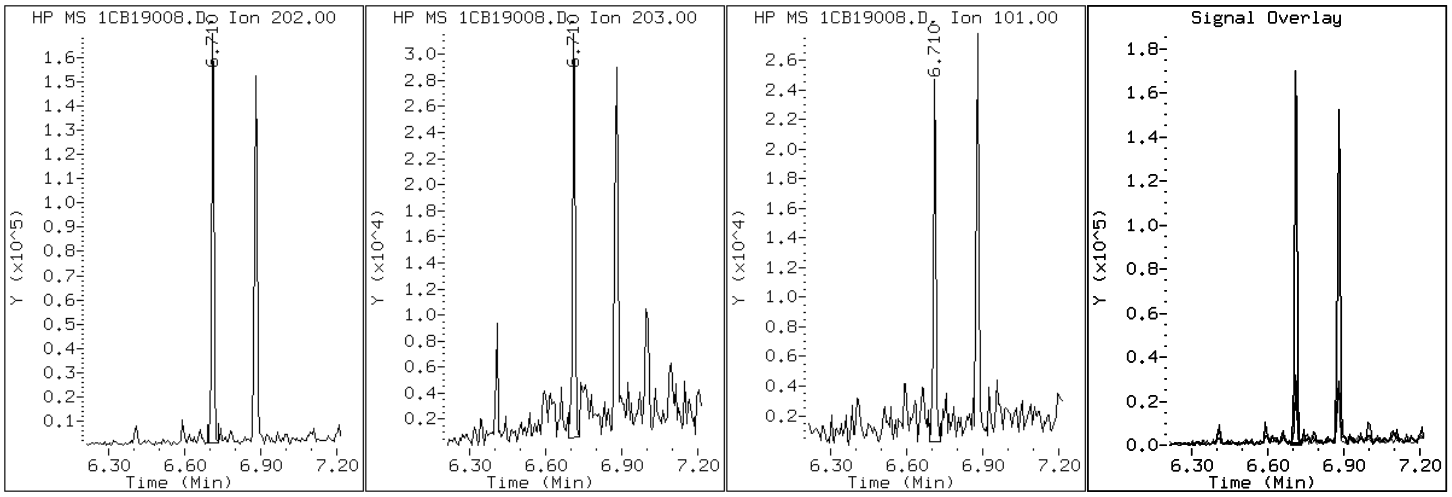
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

15 Fluoranthene



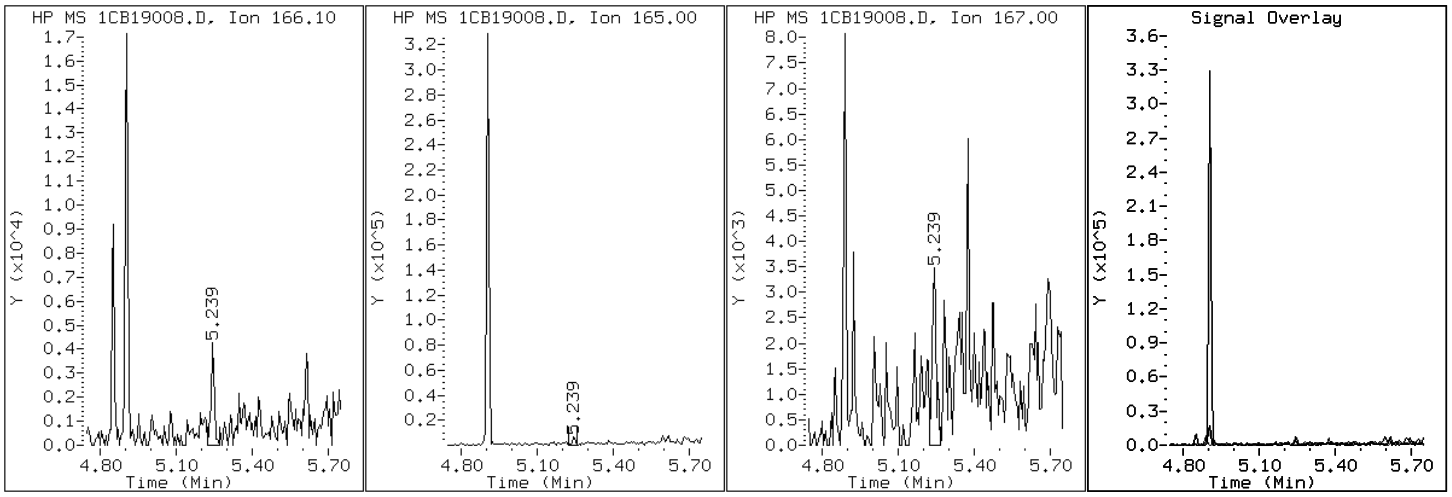
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

9 Fluorene



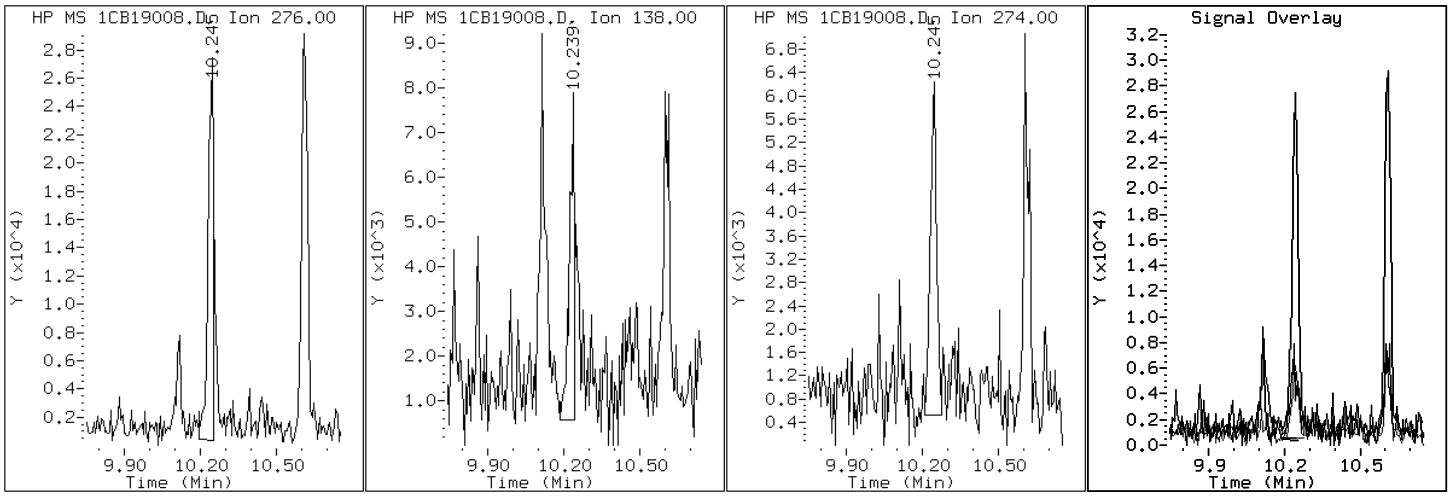
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

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



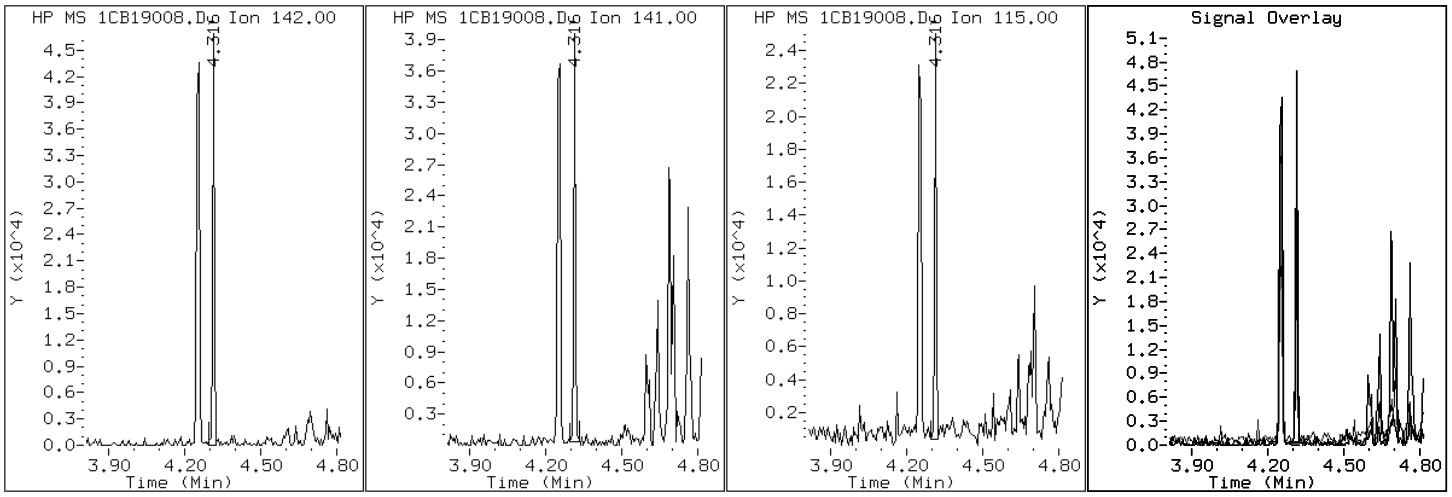
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

4 1-Methylnaphthalene



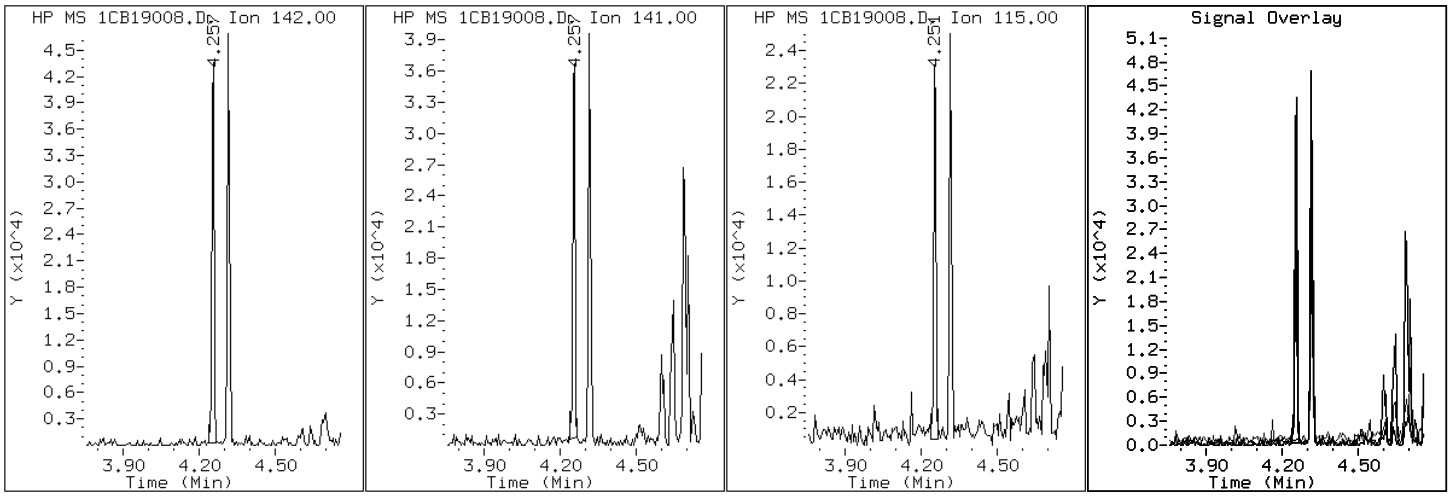
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

3 2-Methylnaphthalene



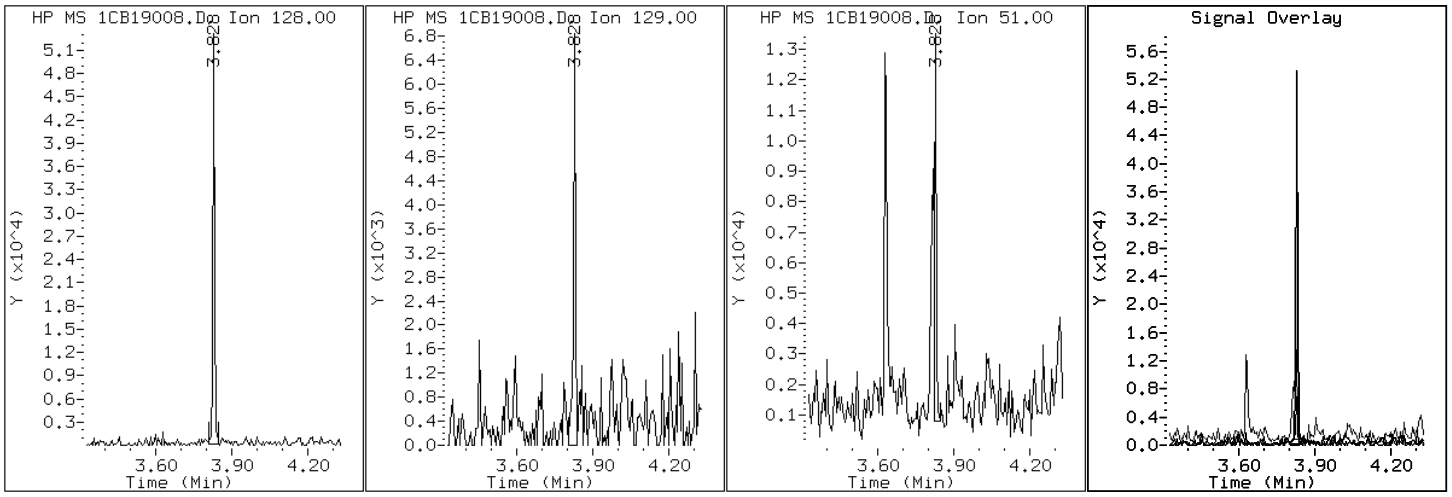
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

2 Naphthalene



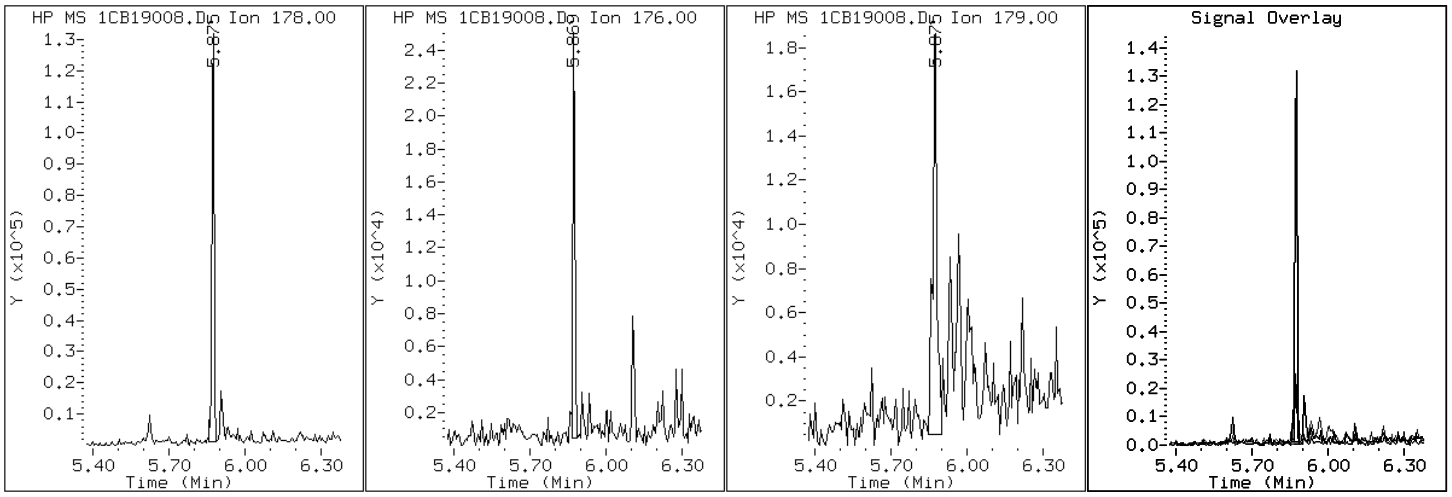
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

11 Phenanthrene



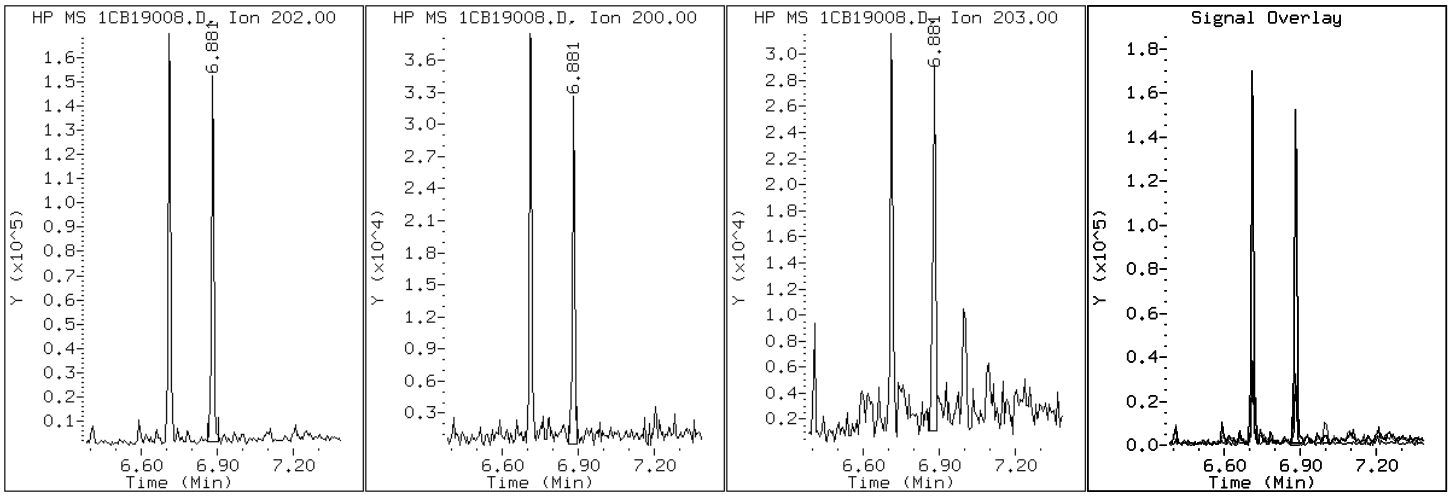
Data File: 1CB19008.D

Date: 19-FEB-2013 15:41

Client ID: CV0748II-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-14-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19008.D
Inj. Date and Time: 19-FEB-2013 15:41
Instrument ID: BSMC5973.i
Client ID: CV0748II-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/20/2013

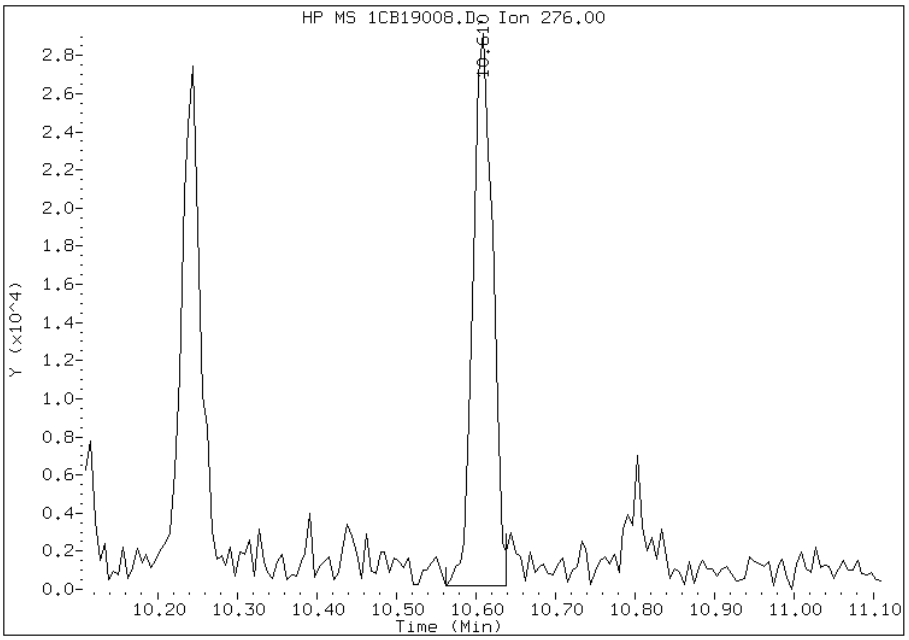
Processing Integration Results

RT: 10.61

Response: 49707

Amount: 1

Conc: 268



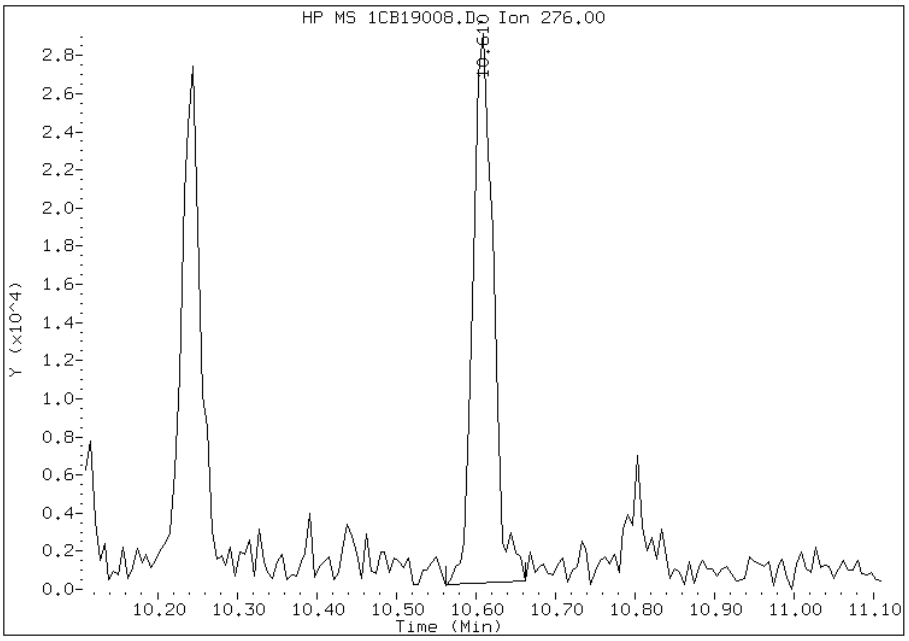
Manual Integration Results

RT: 10.61

Response: 51019

Amount: 1

Conc: 276



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19008.D
Inj. Date and Time: 19-FEB-2013 15:41
Instrument ID: BSMC5973.i
Client ID: CV0748II-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/20/2013

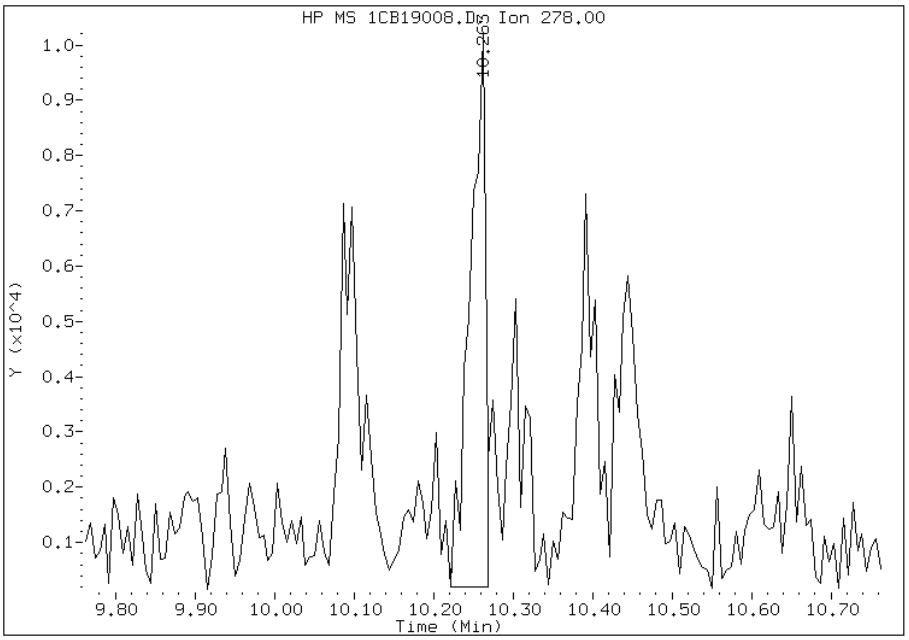
Processing Integration Results

RT: 10.26

Response: 13662

Amount: 0

Conc: 79



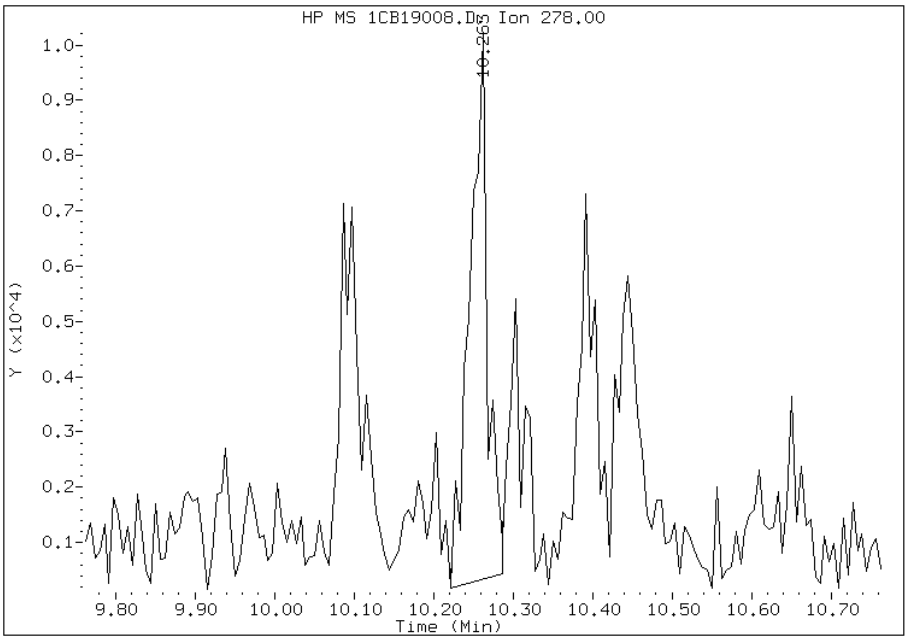
Manual Integration Results

RT: 10.26

Response: 15352

Amount: 0

Conc: 89



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19008.D
Inj. Date and Time: 19-FEB-2013 15:41
Instrument ID: BSMC5973.i
Client ID: CV0748II-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

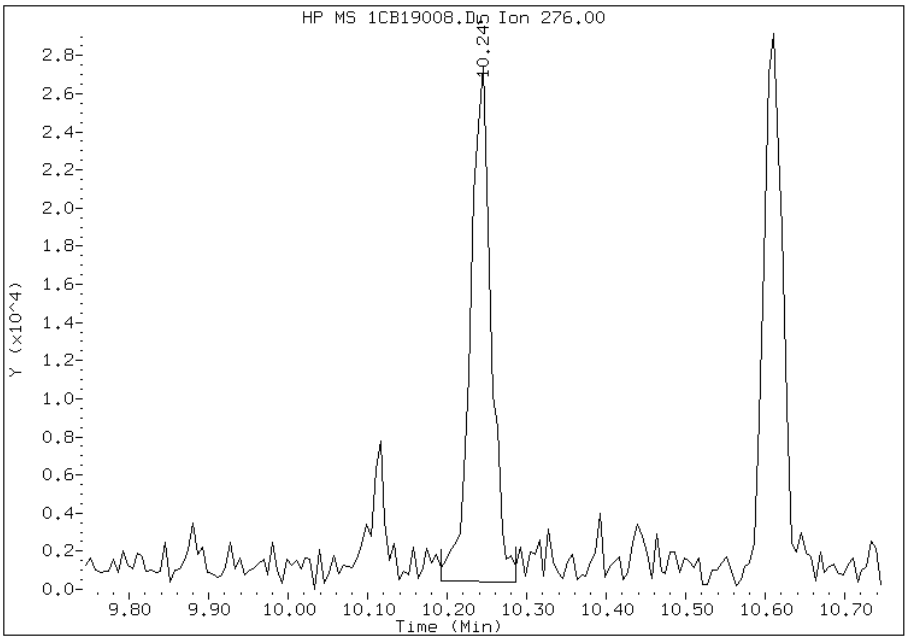
Processing Integration Results

RT: 10.25

Response: 48911

Amount: 1

Conc: 268



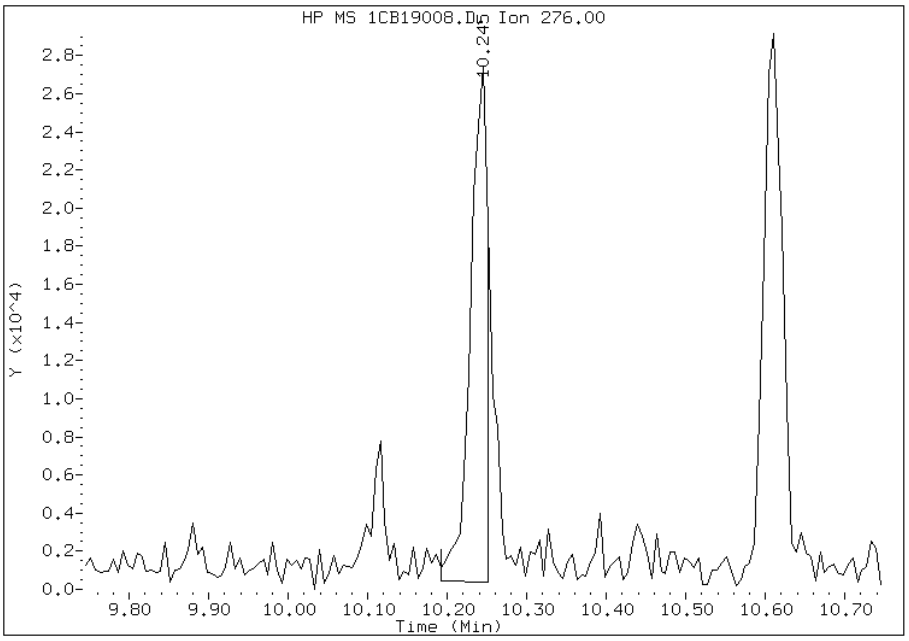
Manual Integration Results

RT: 10.25

Response: 40414

Amount: 1

Conc: 222



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748JJ-CS | Lab Sample ID: 680-87320-15

Matrix: Solid | Lab File ID: 1CB19009.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:32

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

Sample wt/vol: 14.94(g) | Date Analyzed: 02/19/2013 16:00

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

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

% Moisture: 21.7 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	48	J	210	26
120-12-7	Anthracene	130		43	22
56-55-3	Benzo[a]anthracene	590		41	20
50-32-8	Benzo[a]pyrene	470		53	27
205-99-2	Benzo[b]fluoranthene	750		63	31
191-24-2	Benzo[g,h,i]perylene	330		100	23
207-08-9	Benzo[k]fluoranthene	300		41	18
218-01-9	Chrysene	640		46	23
53-70-3	Dibenz(a,h)anthracene	100		100	21
206-44-0	Fluoranthene	1100		100	21
86-73-7	Fluorene	50	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	280		100	36
90-12-0	1-Methylnaphthalene	180	J	210	23
91-57-6	2-Methylnaphthalene	230		210	36
91-20-3	Naphthalene	140	J	210	23
85-01-8	Phenanthrene	800		41	20
129-00-0	Pyrene	1200		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19009.D
Lab Smp Id: 680-87320-A-15-A Client Smp ID: CV0748JJ-CS
Inj Date : 19-FEB-2013 16:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-15-a
Misc Info : 680-87320-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 9
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	21.661	% 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)	2220479	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1731703	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	3105000	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	109635	2.40981	823.5990
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	3175100	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2999488	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	23272	0.39551	135.1749
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	26174	0.68413	233.8134
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	18071	0.51934	177.4947
5 Acenaphthylene	152	4.816	4.816	(0.982)	9637	0.13988	47.8069
9 Fluorene	166	5.239	5.245	(1.068)	8139	0.14674	50.1505(Q)
11 Phenanthrene	178	5.869	5.874	(1.002)	217876	2.35079	803.4277
12 Anthracene	178	5.904	5.910	(1.008)	31329	0.37518	128.2254
13 Carbazole	167	6.010	6.015	(1.026)	20326	0.28023	95.7744

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)	280393	3.09610	1058.1526
16 Pyrene	202	6.880	6.886	(0.882)	296249	3.50471	1197.8023
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	151408	1.72924	591.0002
19 Chrysene	228	7.821	7.827	(1.002)	169976	1.87938	642.3156
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	160495	2.18249	745.9079(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.961)	71848	0.88686	303.1010(M)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	95649	1.36690	467.1644
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.251	(1.135)	54961	0.81775	279.4835(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	19384	0.30584	104.5261
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	65915	0.96548	329.9723

QC Flag Legend

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

Data File: 1CB19009.D

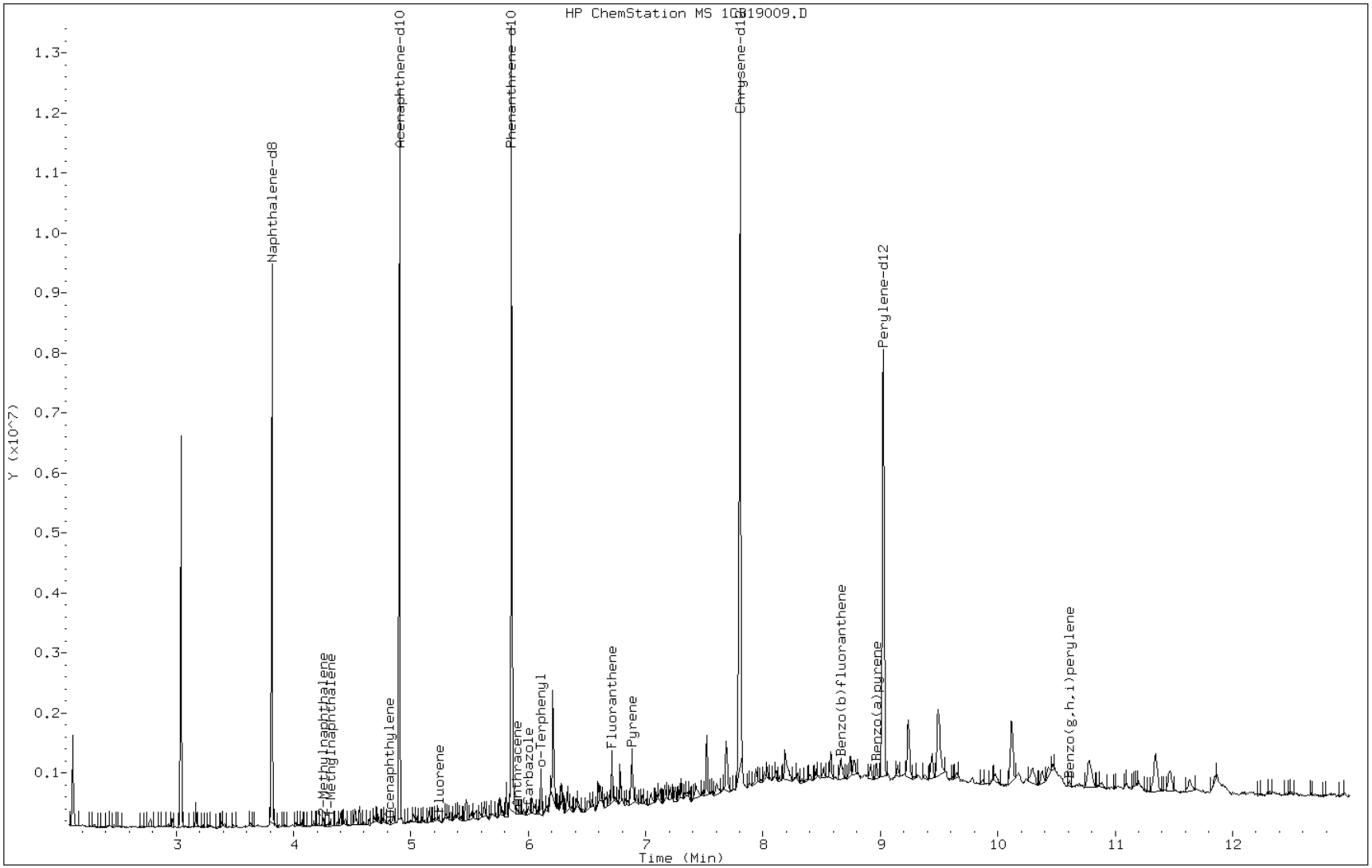
Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a

Operator: SCC



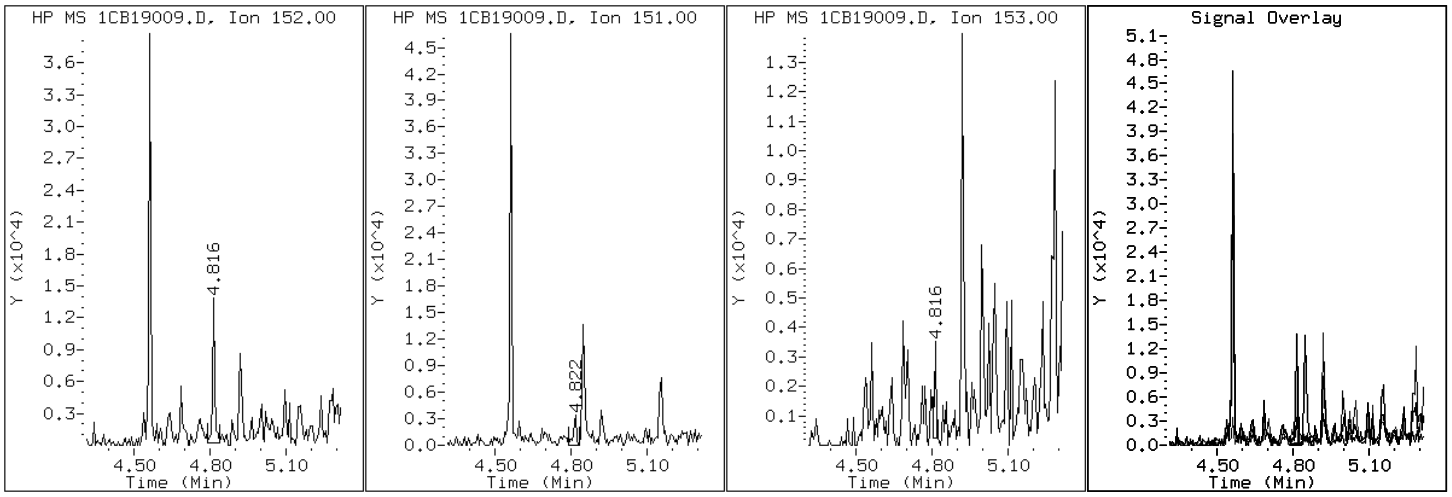
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

5 Acenaphthylene



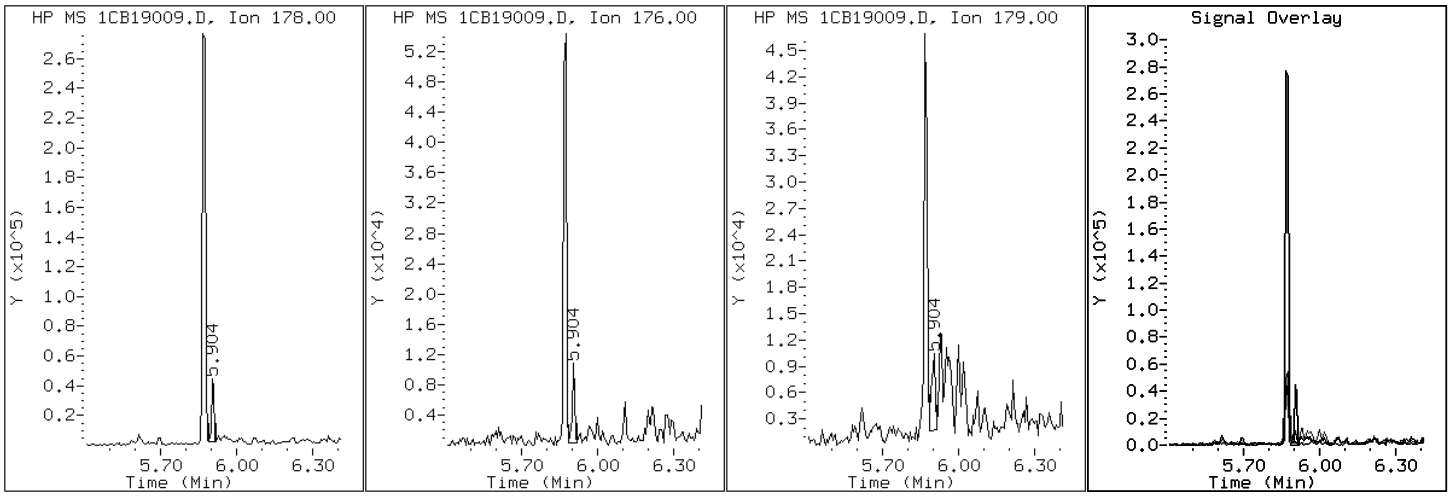
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

12 Anthracene



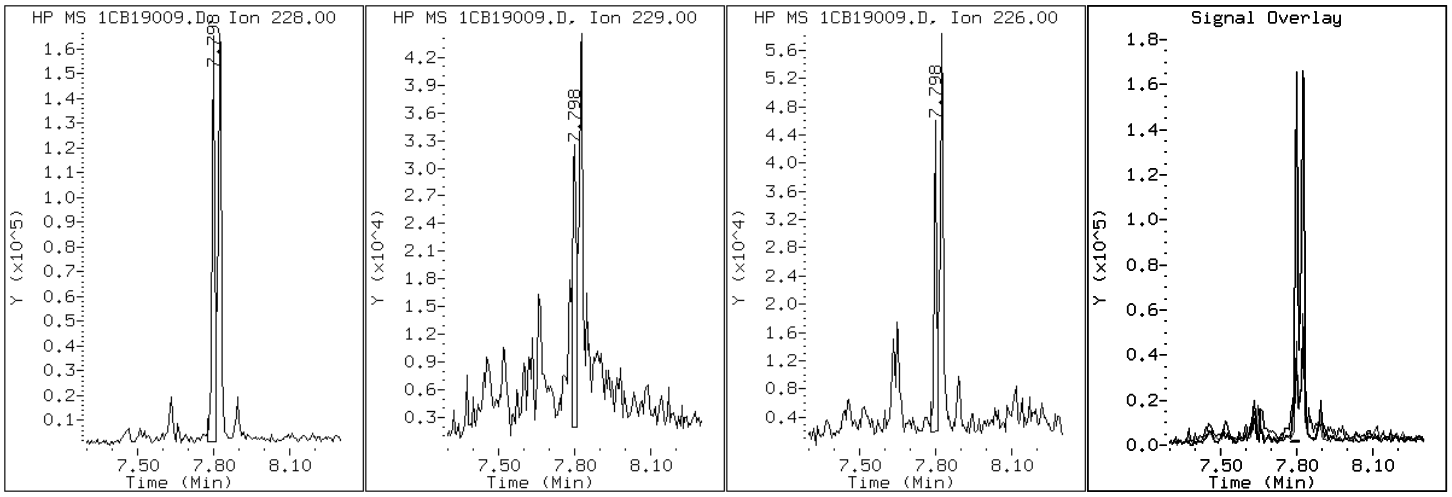
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

17 Benzo(a)anthracene



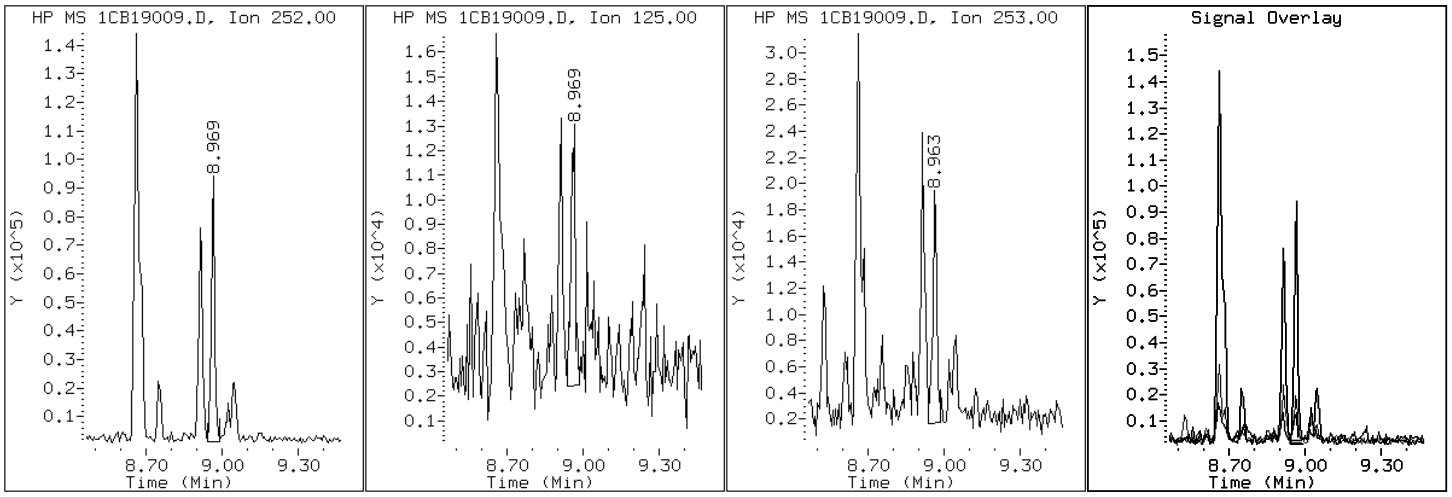
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

22 Benzo(a)pyrene



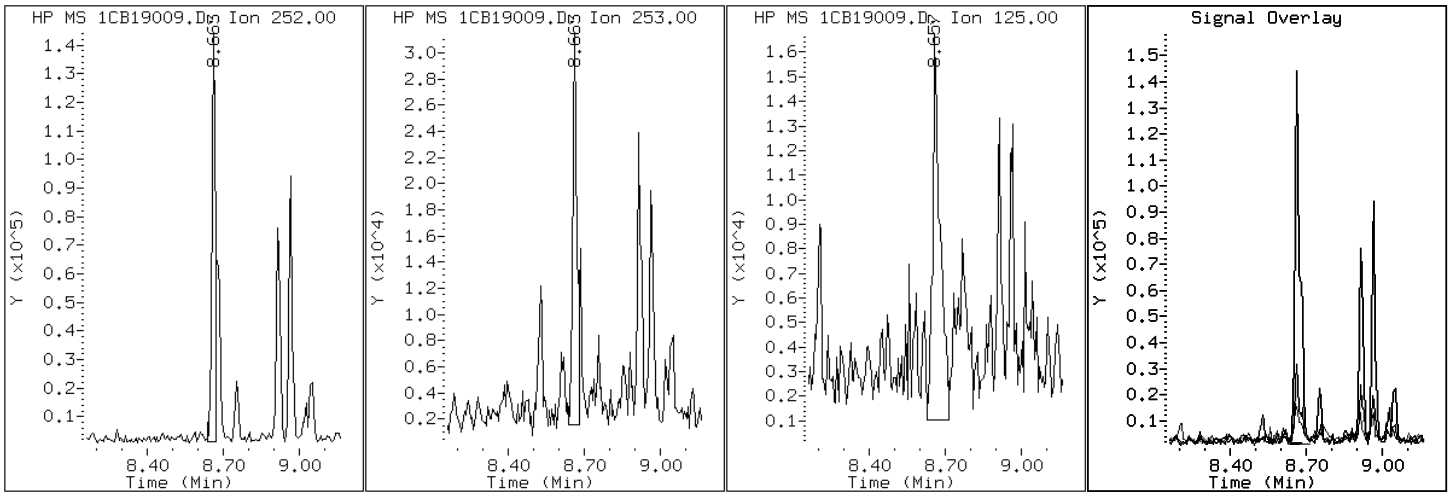
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

20 Benzo(b)fluoranthene



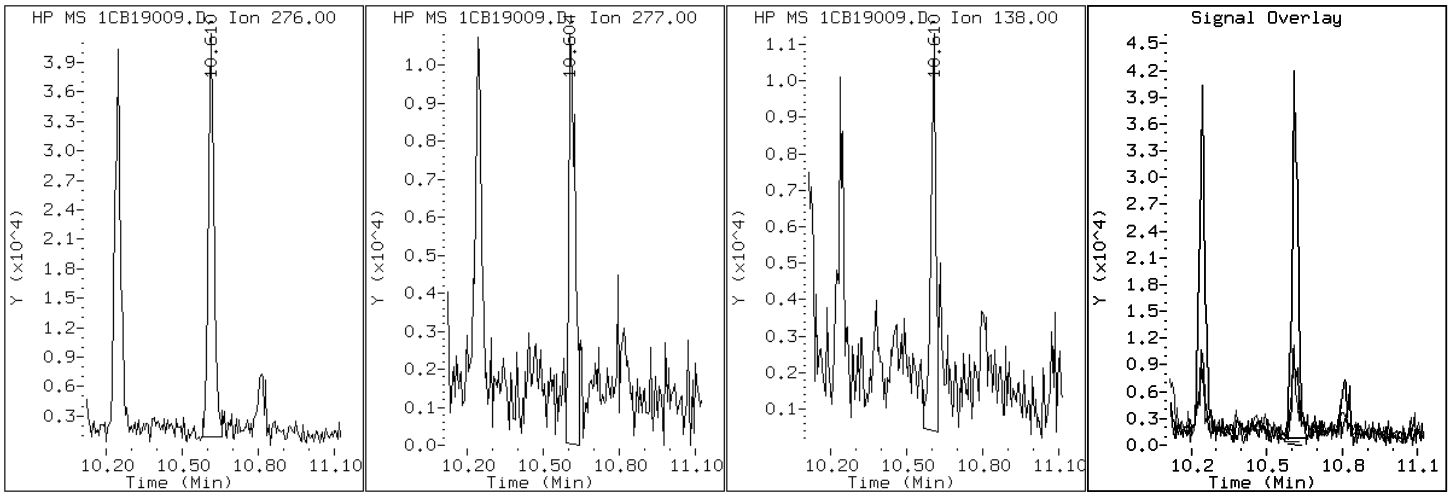
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

26 Benzo(g,h,i)perylene



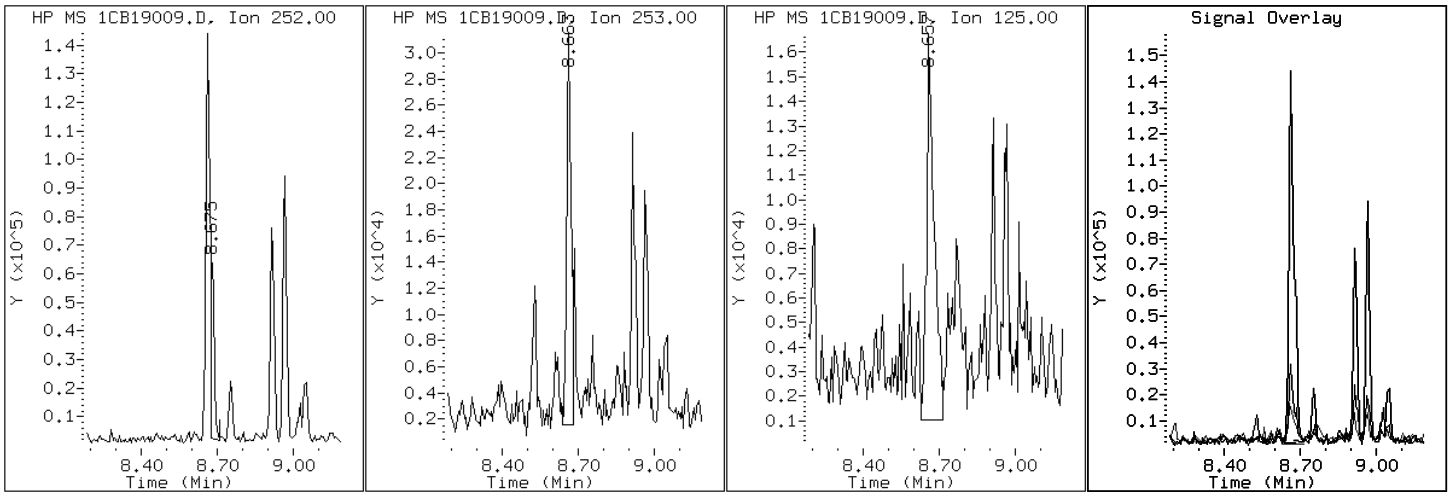
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

21 Benzo(k)fluoranthene



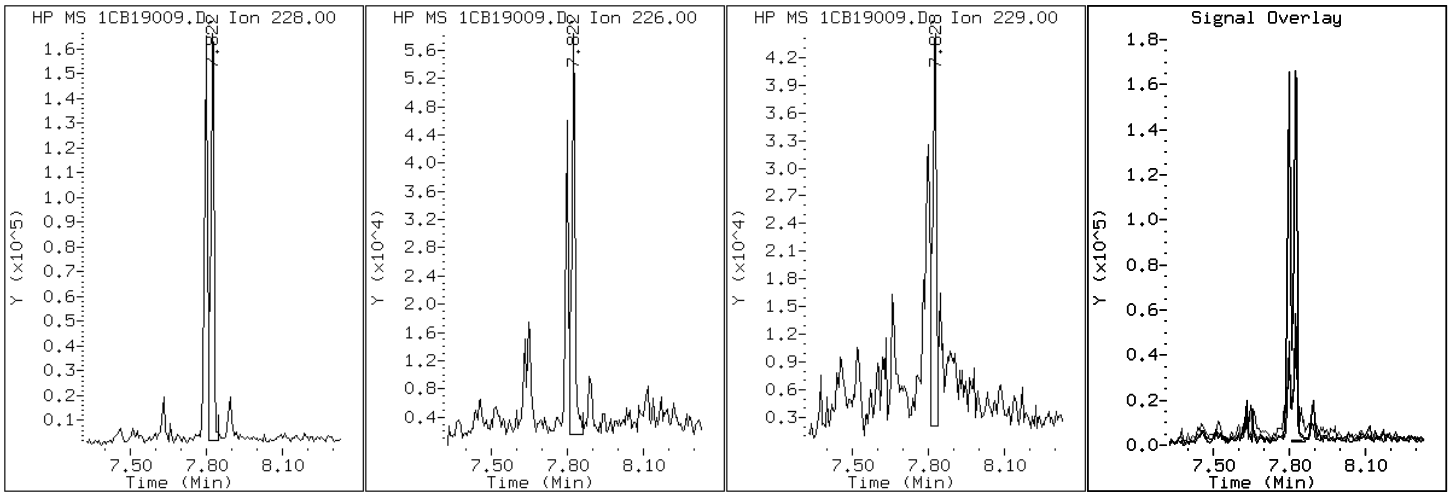
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

19 Chrysene



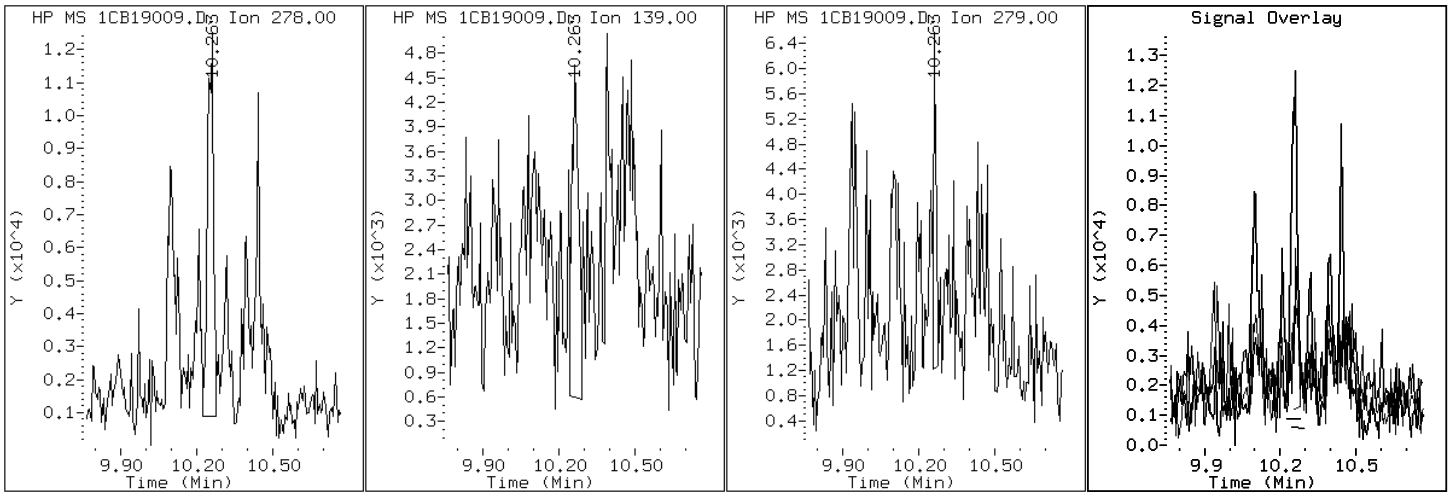
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

25 Dibenzo(a,h)anthracene



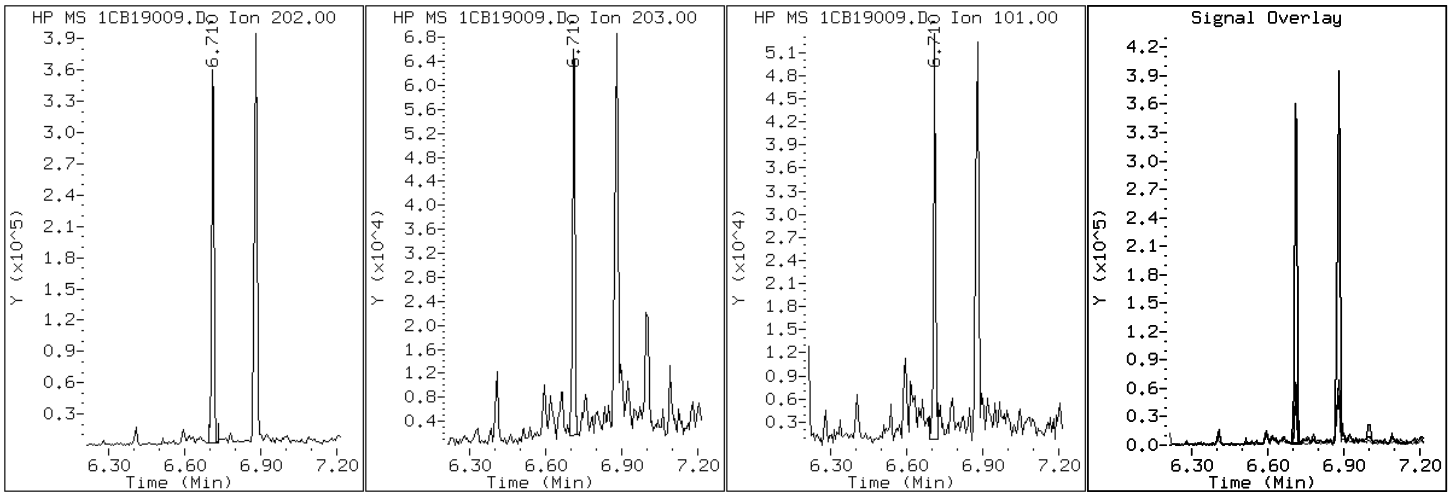
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

15 Fluoranthene



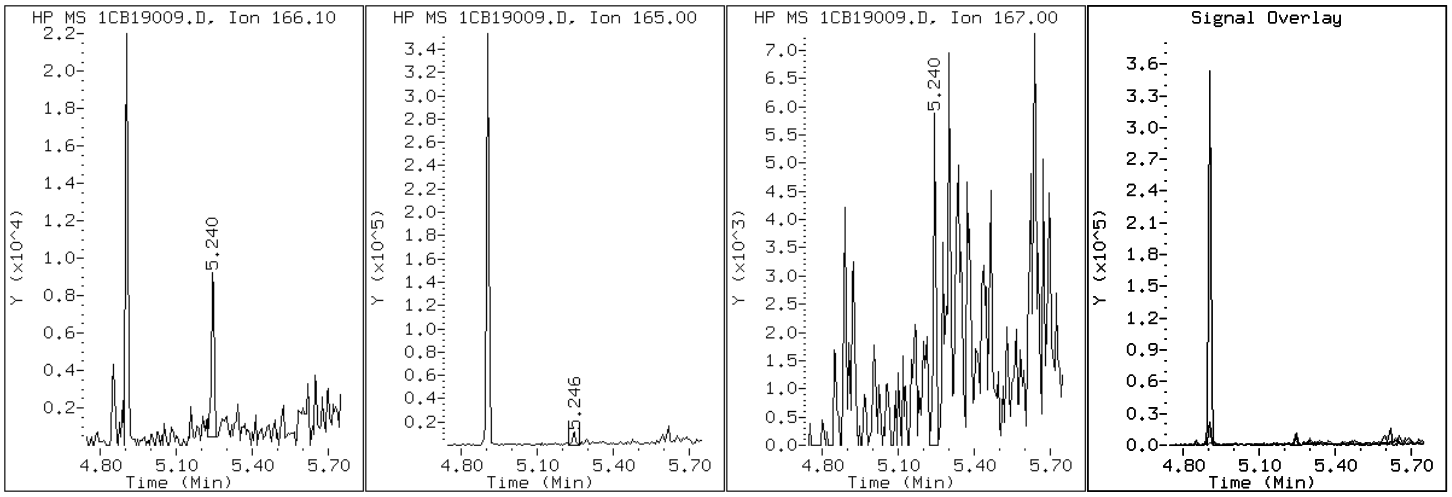
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

9 Fluorene



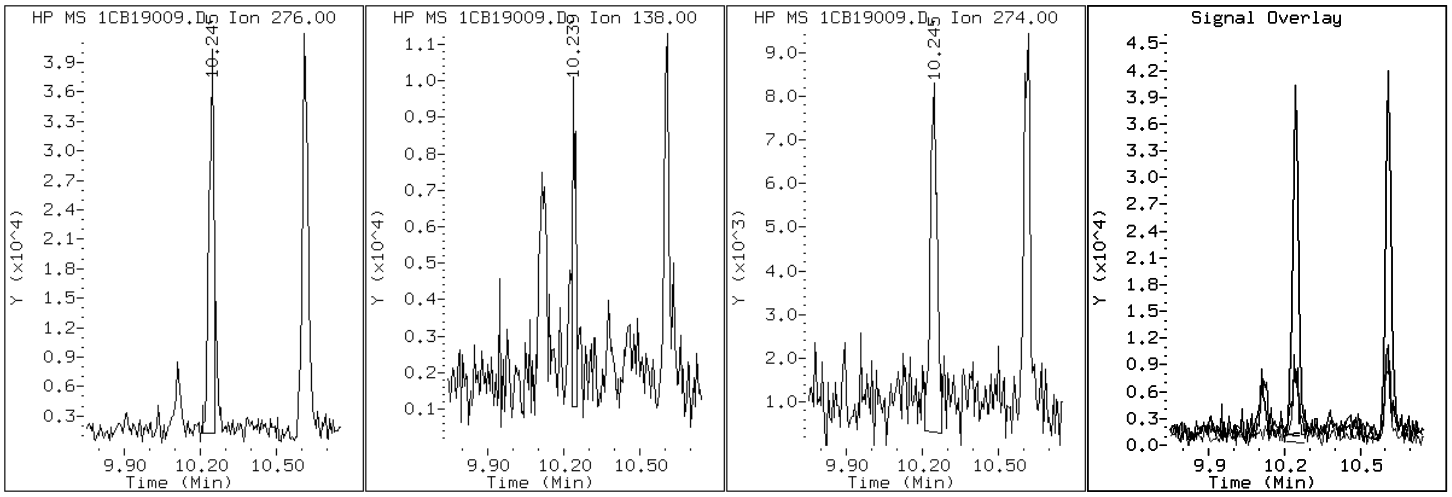
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

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



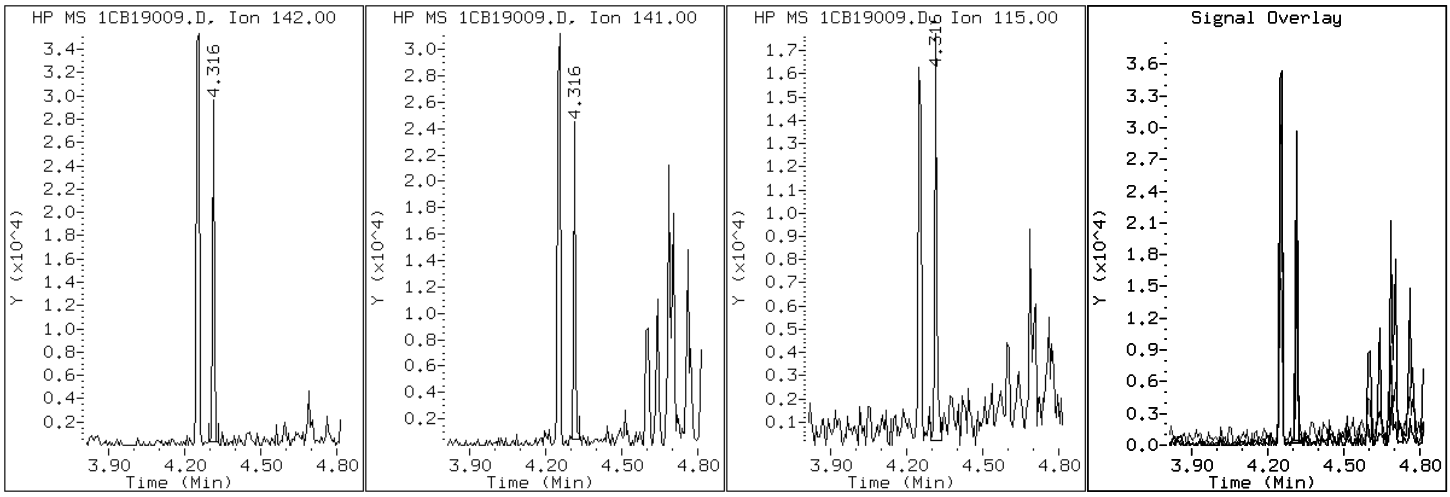
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

4 1-Methylnaphthalene



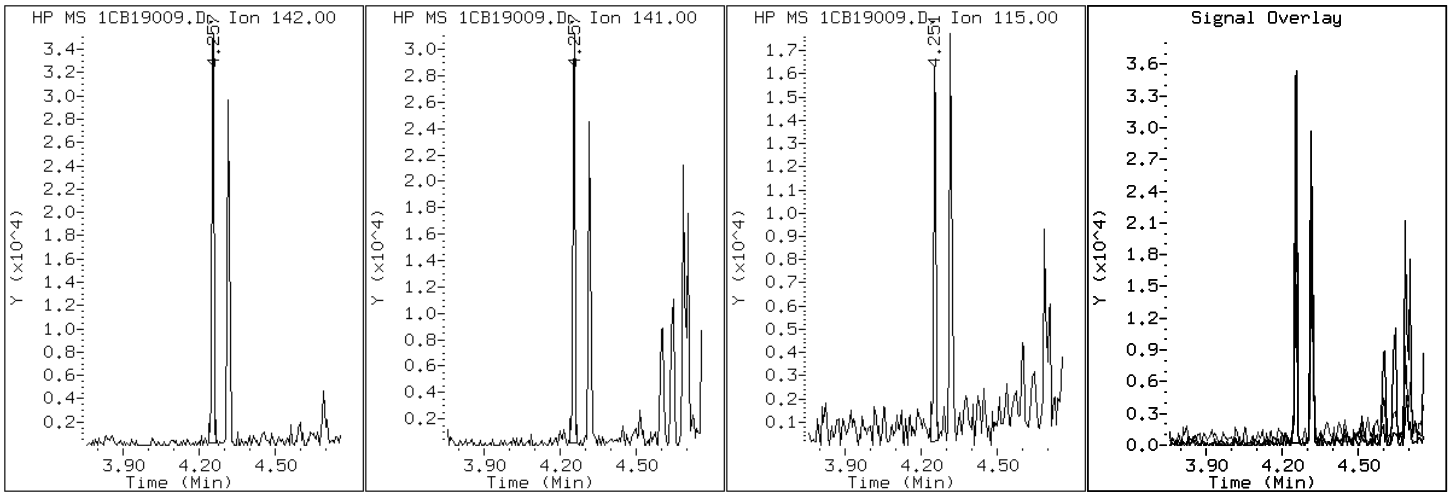
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

3 2-Methylnaphthalene



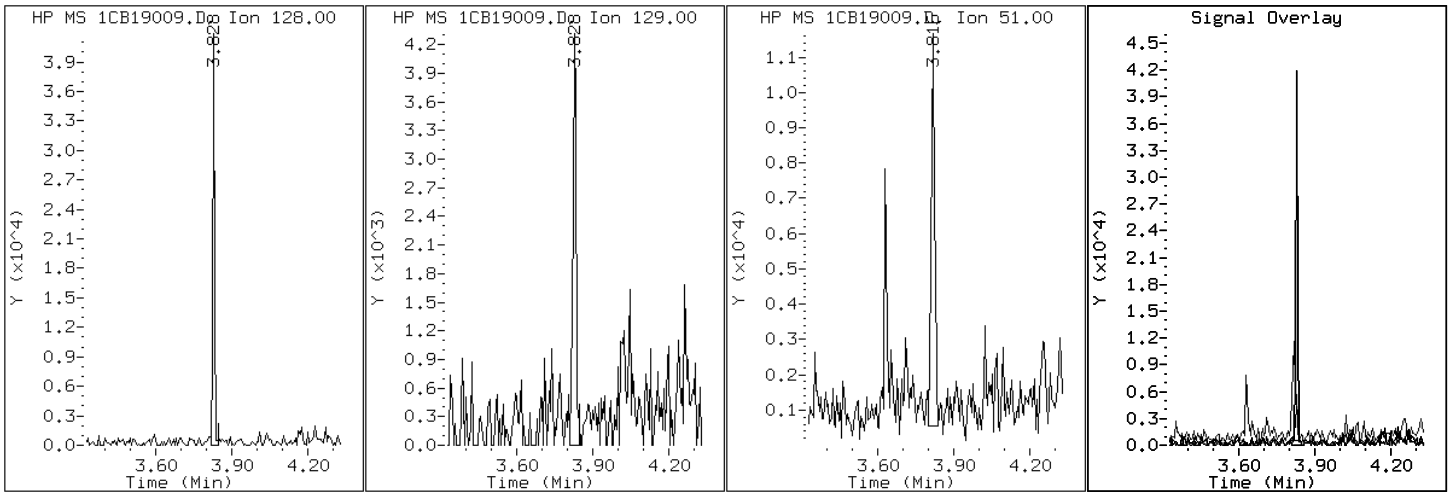
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

2 Naphthalene



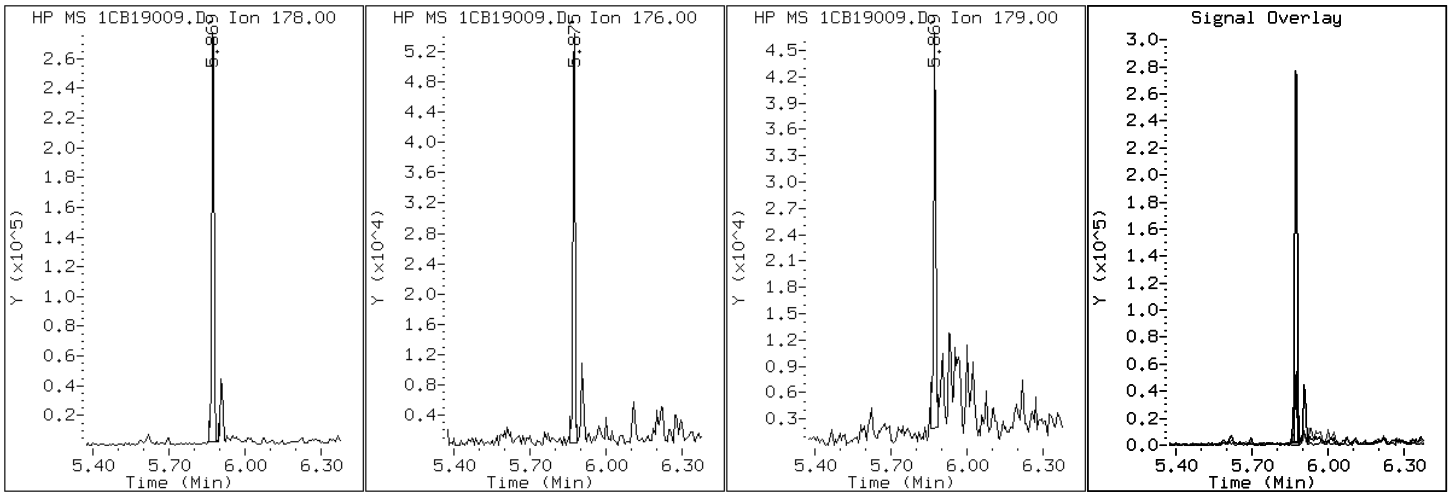
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

11 Phenanthrene



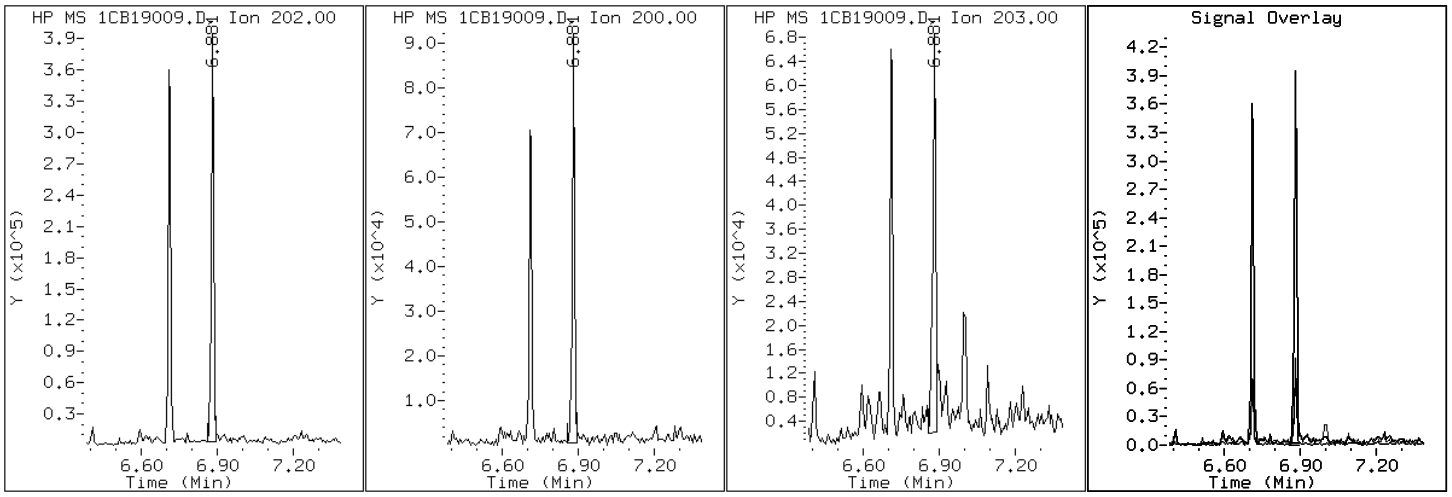
Data File: 1CB19009.D

Date: 19-FEB-2013 16:00

Client ID: CV0748JJ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-15-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19009.D
Inj. Date and Time: 19-FEB-2013 16:00
Instrument ID: BSMC5973.i
Client ID: CV0748JJ-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

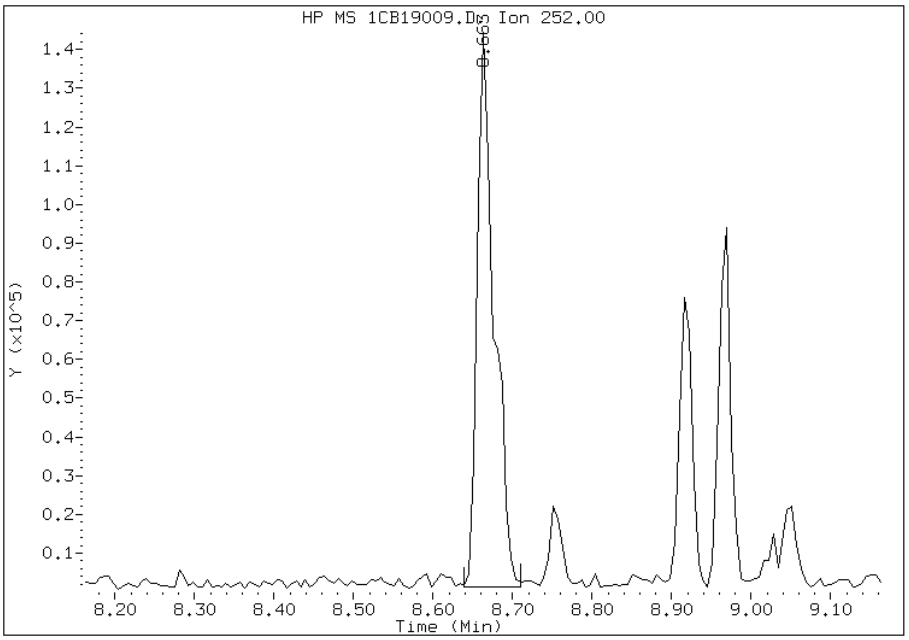
Processing Integration Results

RT: 8.66

Response: 211736

Amount: 3

Conc: 984



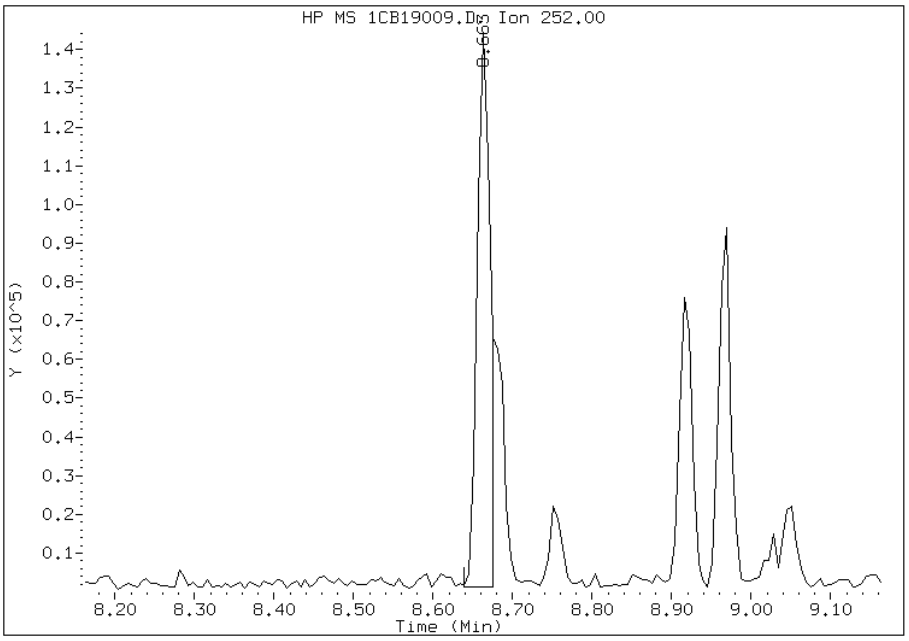
Manual Integration Results

RT: 8.66

Response: 160495

Amount: 2

Conc: 746



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19009.D
Inj. Date and Time: 19-FEB-2013 16:00
Instrument ID: BSMC5973.i
Client ID: CV0748JJ-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

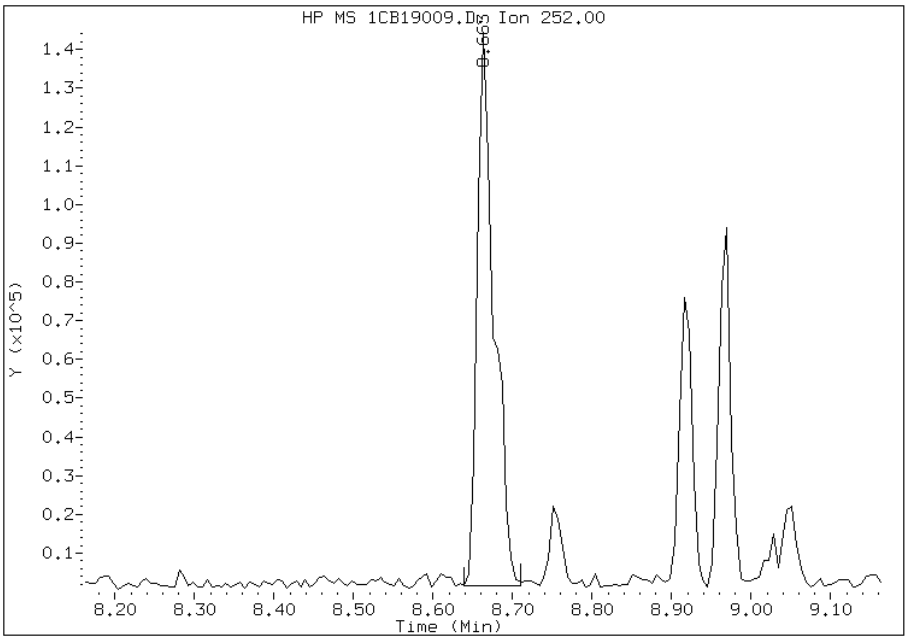
Processing Integration Results

RT: 8.66

Response: 209898

Amount: 3

Conc: 885



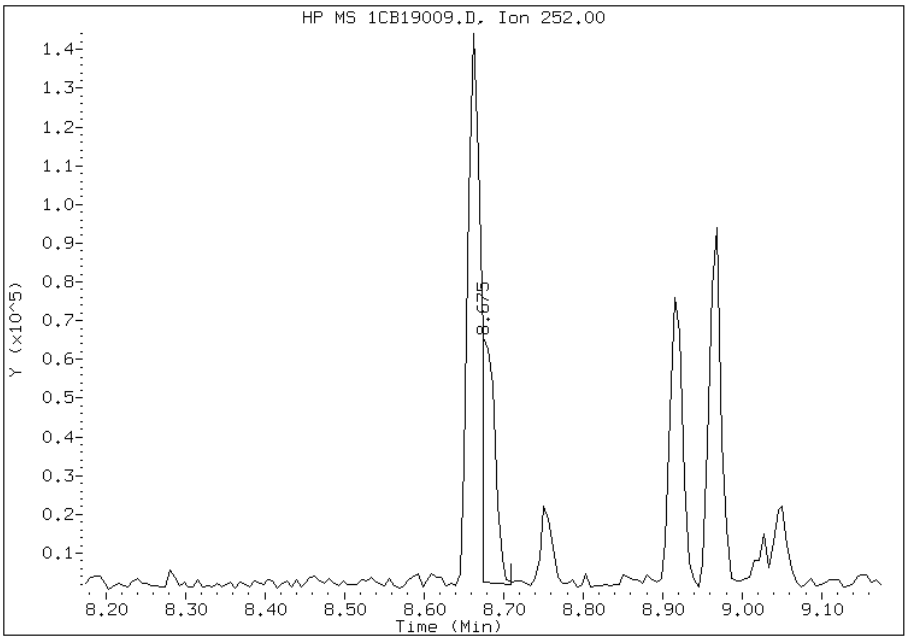
Manual Integration Results

RT: 8.67

Response: 71848

Amount: 1

Conc: 303



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19009.D
Inj. Date and Time: 19-FEB-2013 16:00
Instrument ID: BSMC5973.i
Client ID: CV0748JJ-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

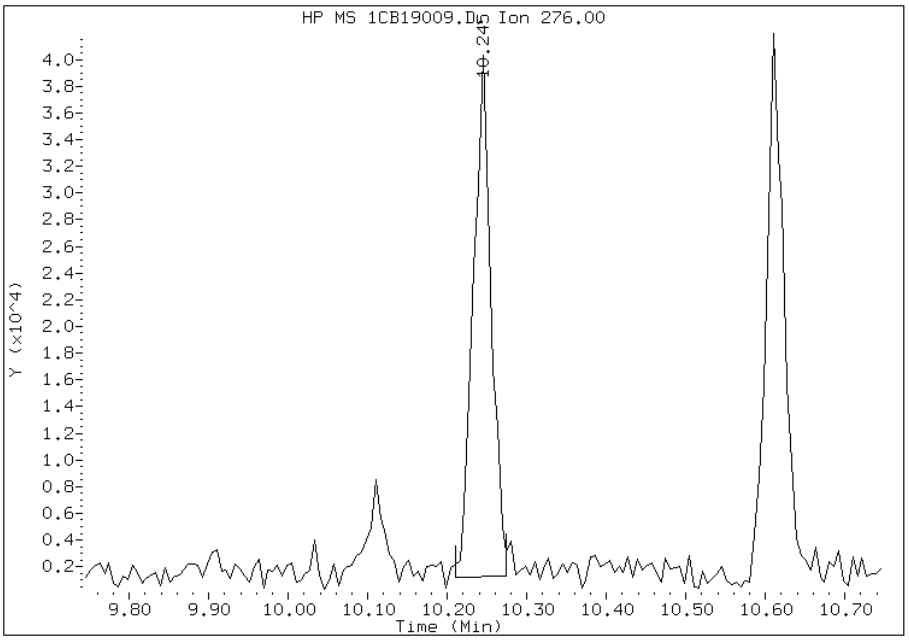
Processing Integration Results

RT: 10.25

Response: 60843

Amount: 1

Conc: 309



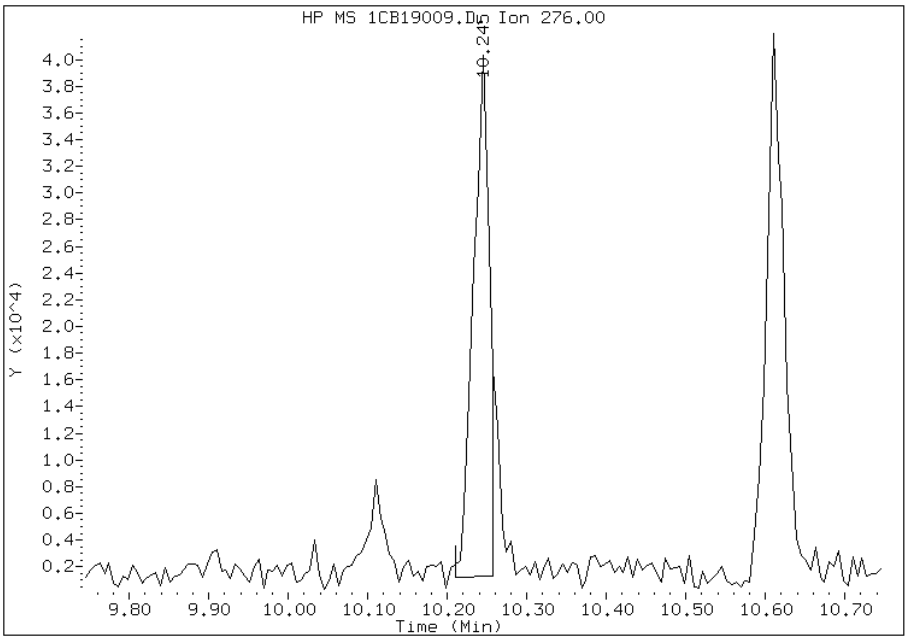
Manual Integration Results

RT: 10.25

Response: 54961

Amount: 1

Conc: 279



Manually Integrated By: cantins
Modification Date: 20-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.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748NN-CS | Lab Sample ID: 680-87320-16

Matrix: Solid | Lab File ID: 1CB19010.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 11:06

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

Sample wt/vol: 15.23(g) | Date Analyzed: 02/19/2013 16:18

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

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

% Moisture: 18.1 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	30	J	190	24
120-12-7	Anthracene	160		40	20
56-55-3	Benzo[a]anthracene	690		38	19
50-32-8	Benzo[a]pyrene	550		50	25
205-99-2	Benzo[b]fluoranthene	860		59	29
191-24-2	Benzo[g,h,i]perylene	400		96	21
207-08-9	Benzo[k]fluoranthene	410		38	17
218-01-9	Chrysene	600		43	22
53-70-3	Dibenz(a,h)anthracene	140		96	20
206-44-0	Fluoranthene	1100		96	19
86-73-7	Fluorene	59	J	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	320		96	34
90-12-0	1-Methylnaphthalene	140	J	190	21
91-57-6	2-Methylnaphthalene	170	J	190	34
91-20-3	Naphthalene	160	J	190	21
85-01-8	Phenanthrene	720		38	19
129-00-0	Pyrene	920		96	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	111		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19010.D
Lab Smp Id: 680-87320-A-16-A Client Smp ID: CV0748NN-CS
Inj Date : 19-FEB-2013 16:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-16-a
Misc Info : 680-87320-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 10
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.230	Weight Extracted
M	18.061	% 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)	1864061	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1454772	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2699984	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	110002	2.78057	891.2540
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	3038058	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2584564	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	24008	0.48604	155.7897
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	16807	0.52329	167.7297
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	12661	0.43344	138.9286
5 Acenaphthylene	152	4.815	4.816	(0.982)	5466	0.09444	30.2713
9 Fluorene	166	5.239	5.245	(1.068)	8584	0.18422	59.0482
11 Phenanthrene	178	5.874	5.874	(1.003)	181130	2.24747	720.3808
12 Anthracene	178	5.904	5.910	(1.008)	36259	0.49936	160.0582
13 Carbazole	167	6.015	6.015	(1.027)	29786	0.47226	151.3715

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)	277157	3.51944	1128.0837
16 Pyrene	202	6.880	6.886	(0.882)	233402	2.88576	924.9710
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	180941	2.15975	692.2629
19 Chrysene	228	7.821	7.827	(1.002)	163178	1.88560	604.3906
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	170344	2.68829	861.6766(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.961)	89252	1.27855	409.8117(M)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	104222	1.72852	554.0417
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.251	(1.134)	57695	0.99624	319.3254(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.268	(1.136)	23265	0.42600	136.5458
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.176)	72720	1.23616	396.2241

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB19010.D

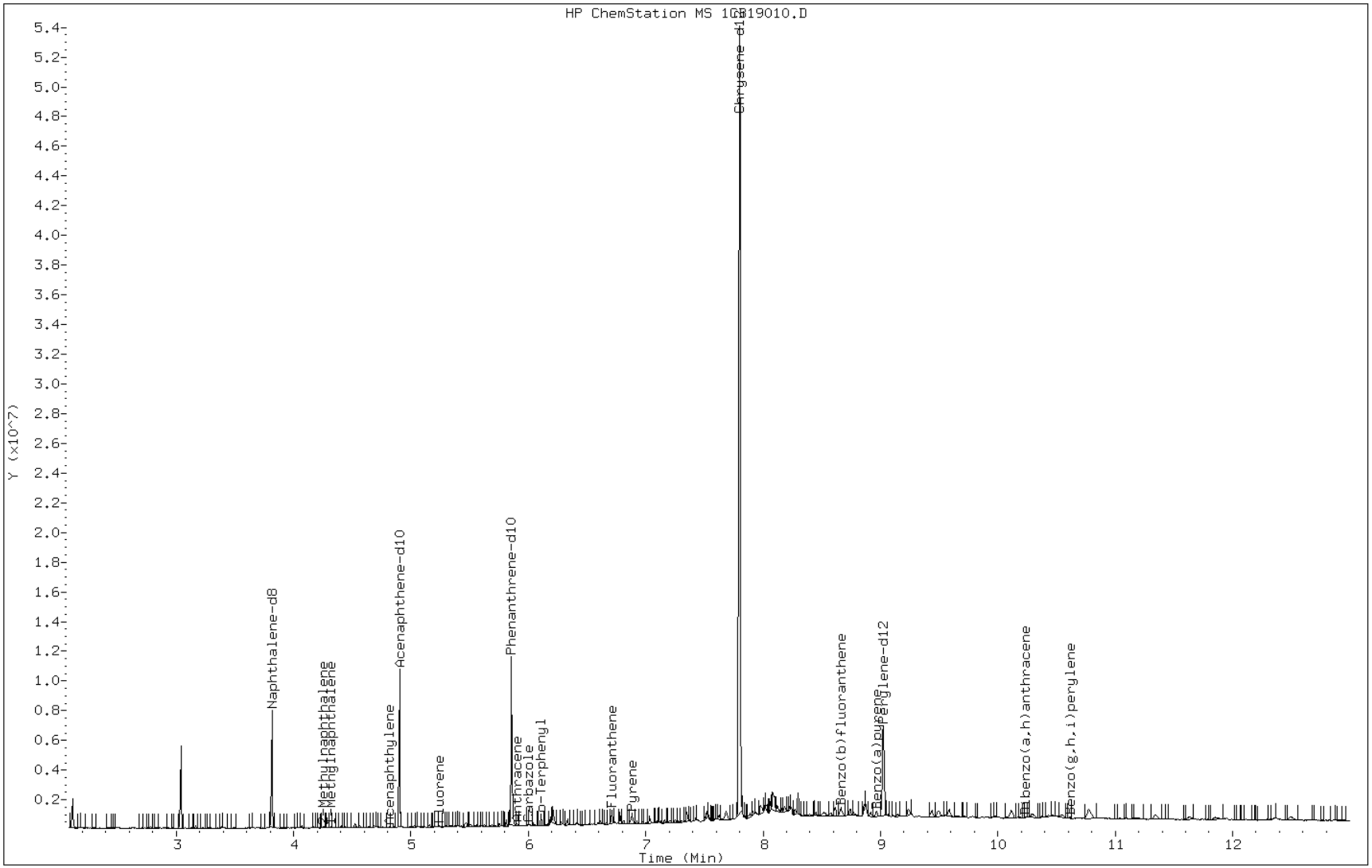
Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a

Operator: SCC



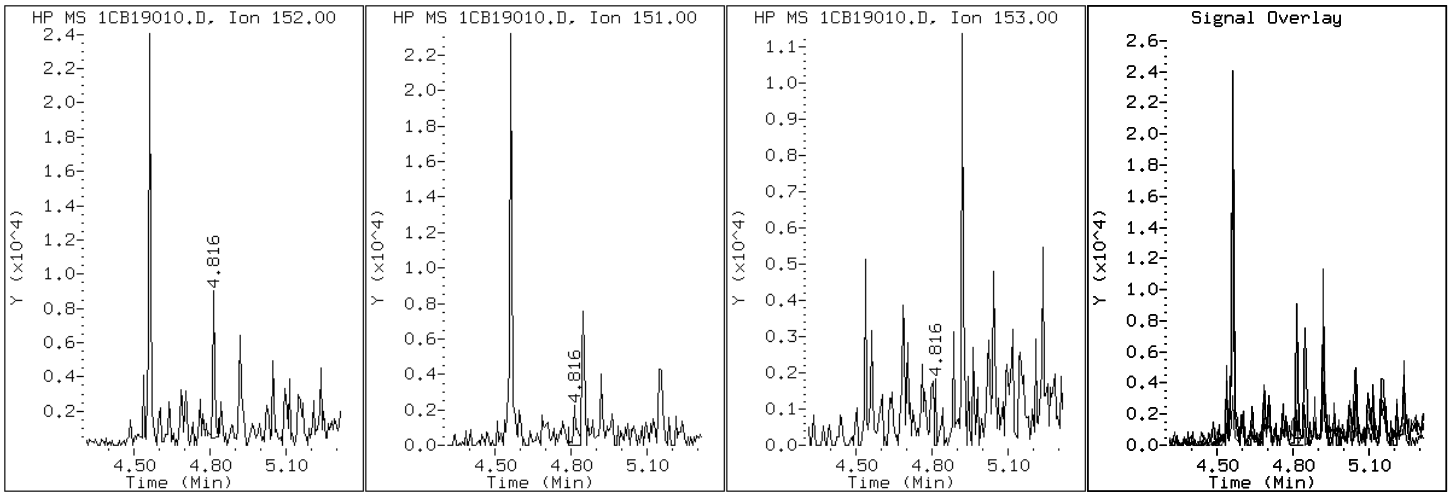
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

5 Acenaphthylene



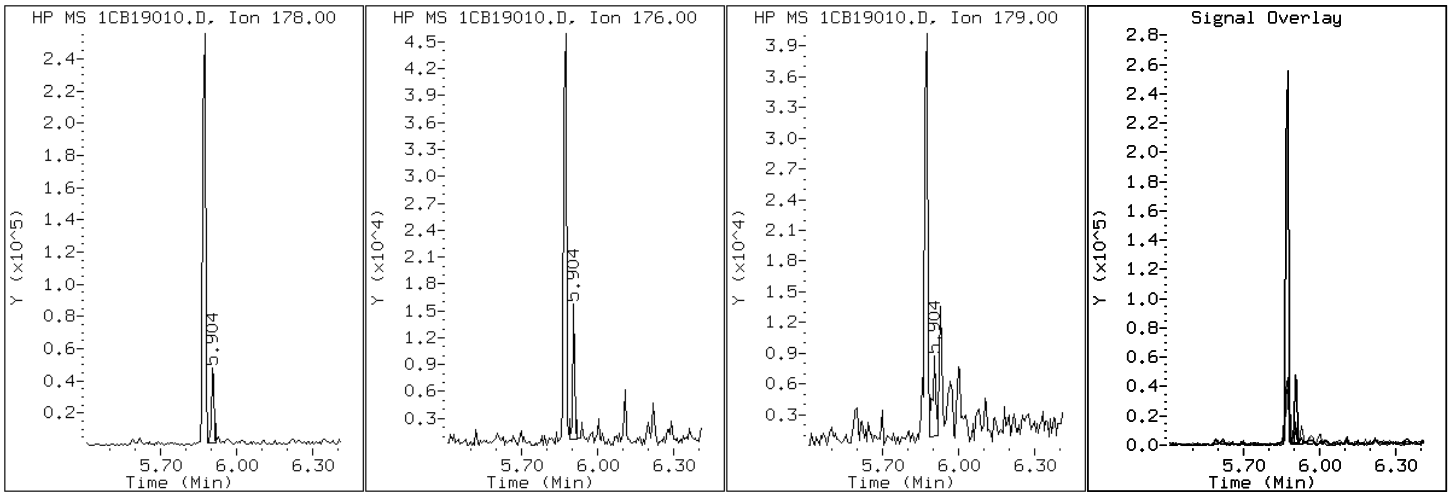
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

12 Anthracene



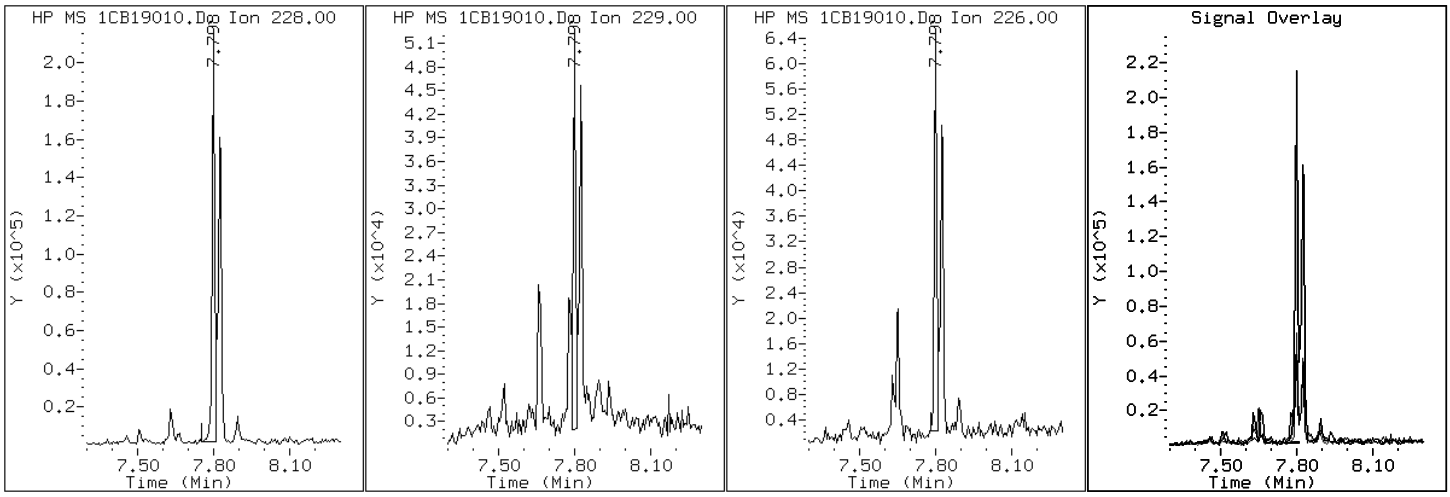
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

17 Benzo(a)anthracene



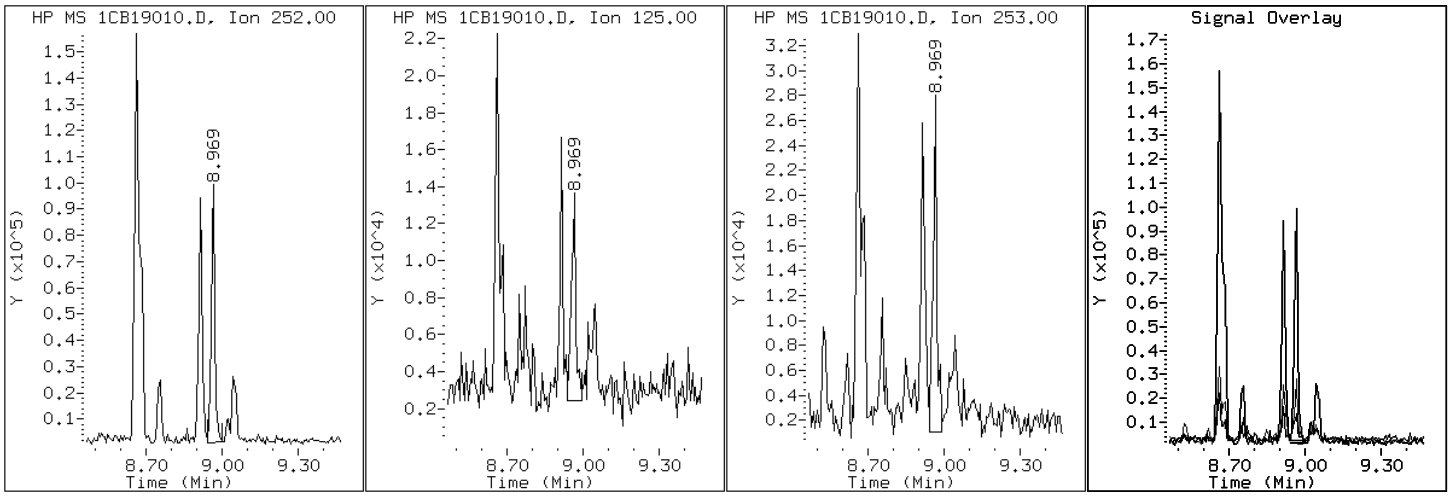
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

22 Benzo(a)pyrene



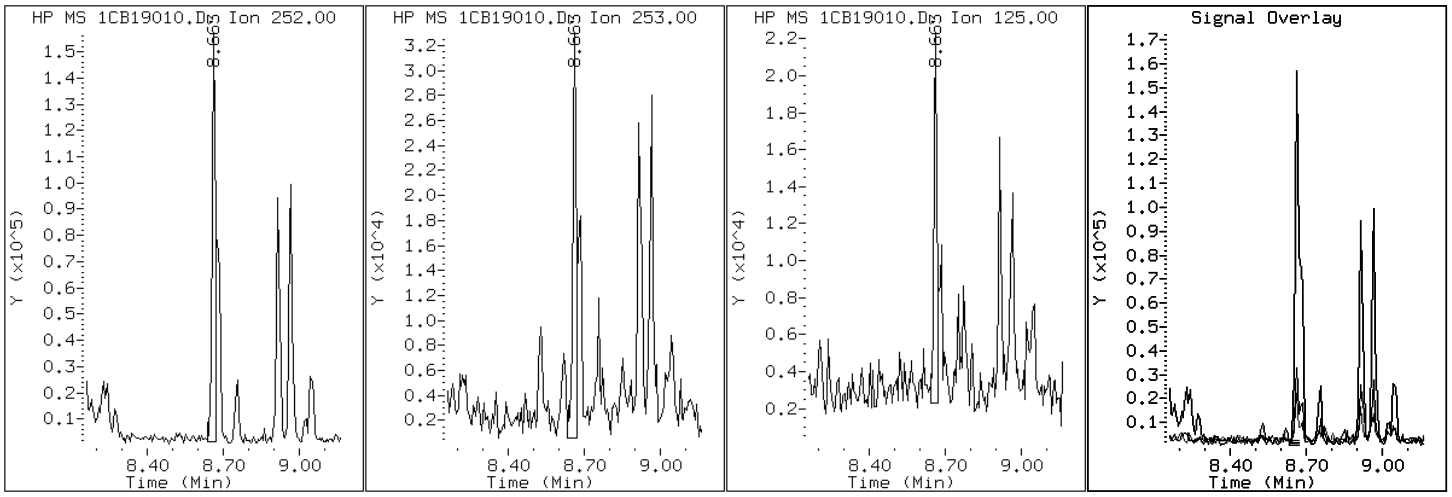
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

20 Benzo(b)fluoranthene



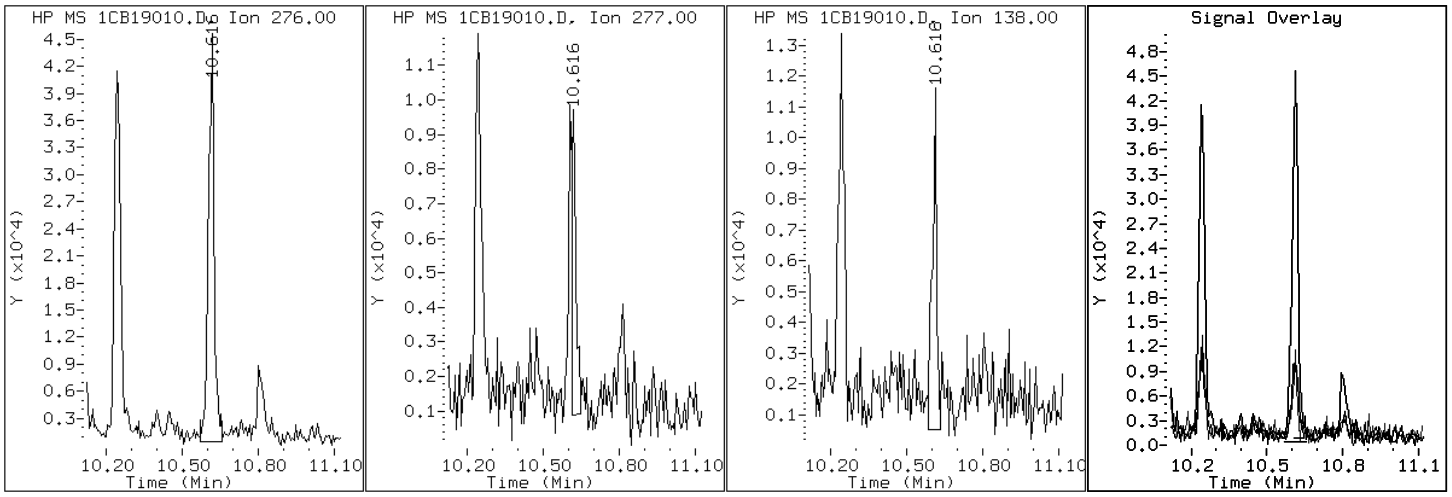
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

26 Benzo(g,h,i)perylene



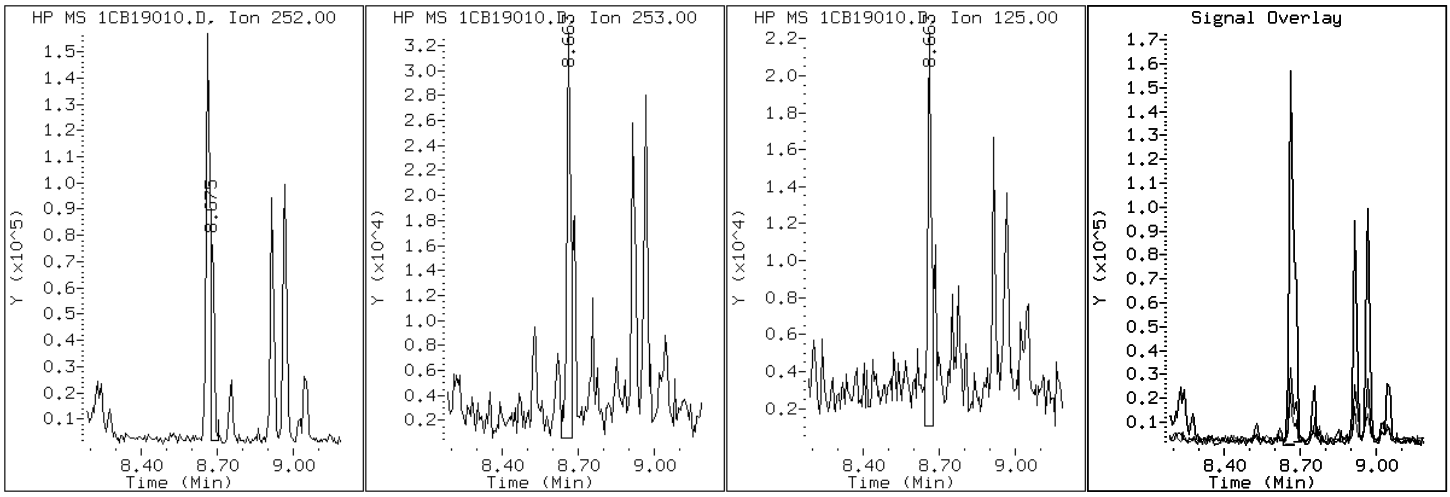
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

21 Benzo(k)fluoranthene



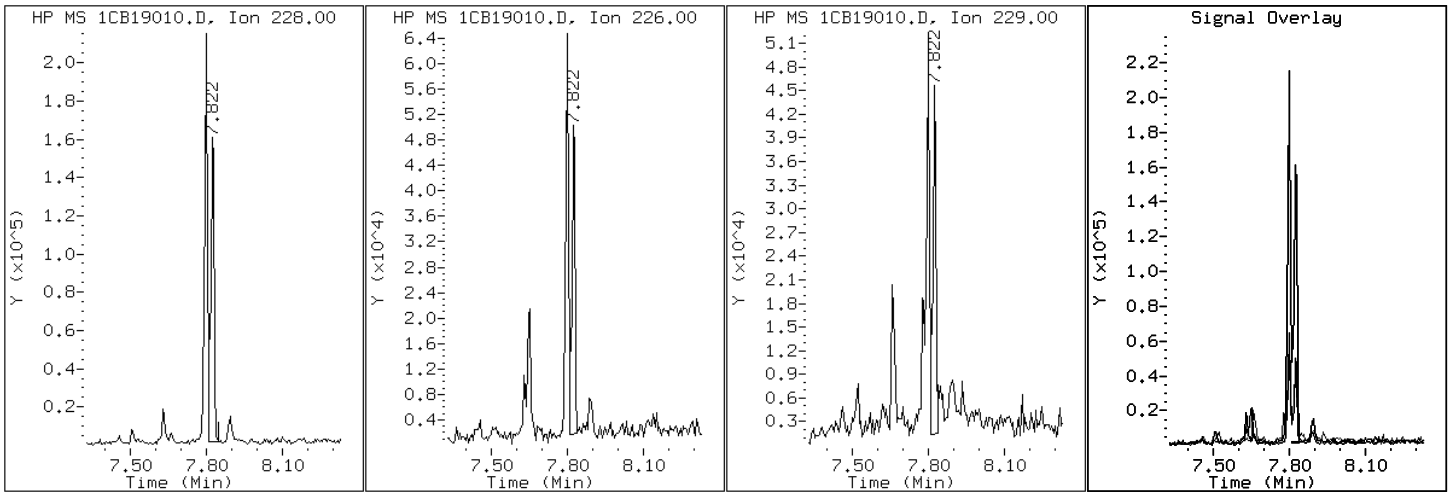
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

19 Chrysene



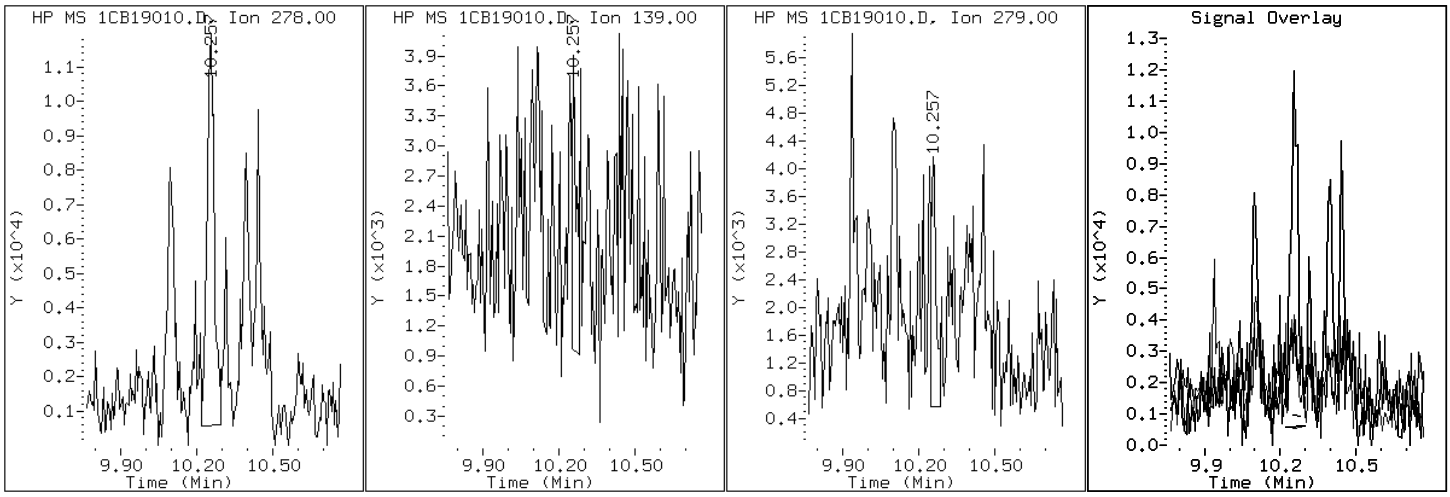
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

25 Dibenzo(a,h)anthracene



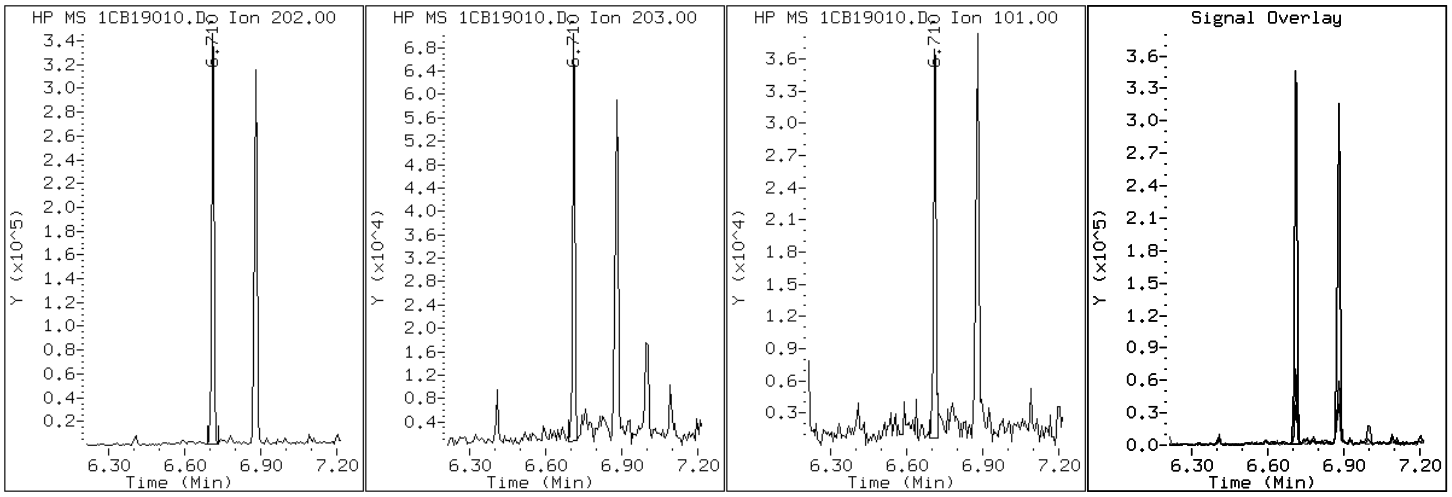
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

15 Fluoranthene



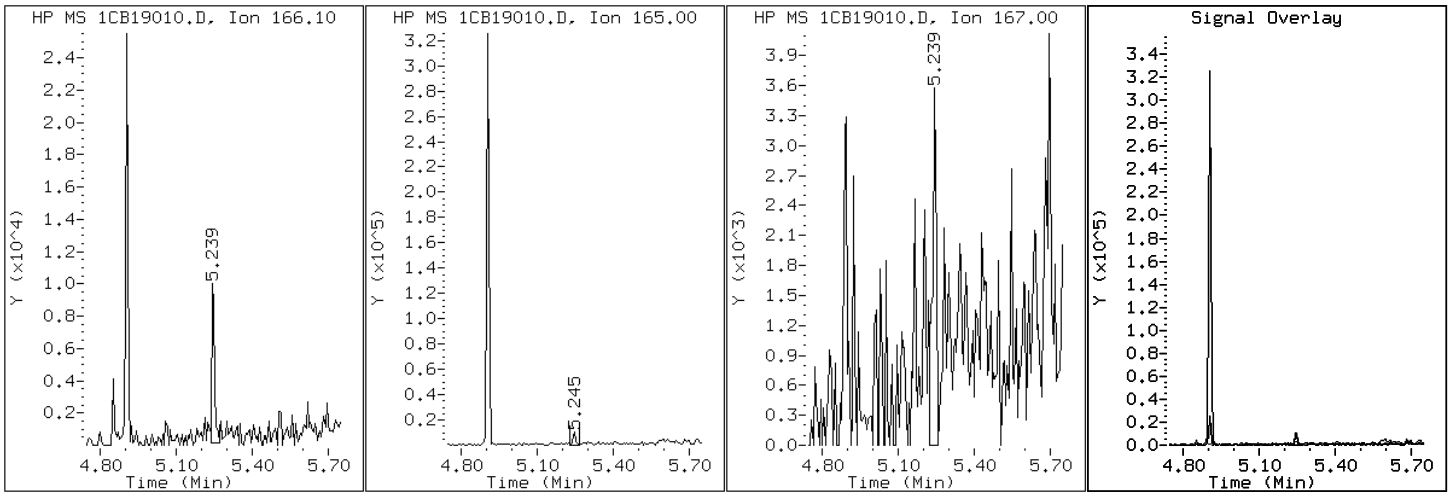
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

9 Fluorene



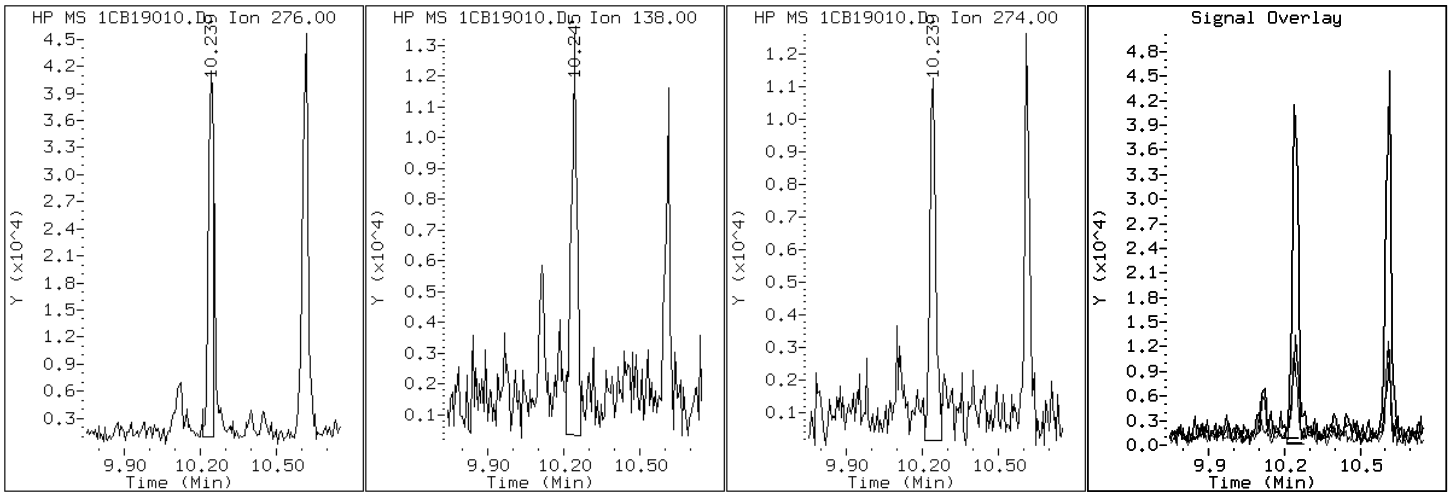
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

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



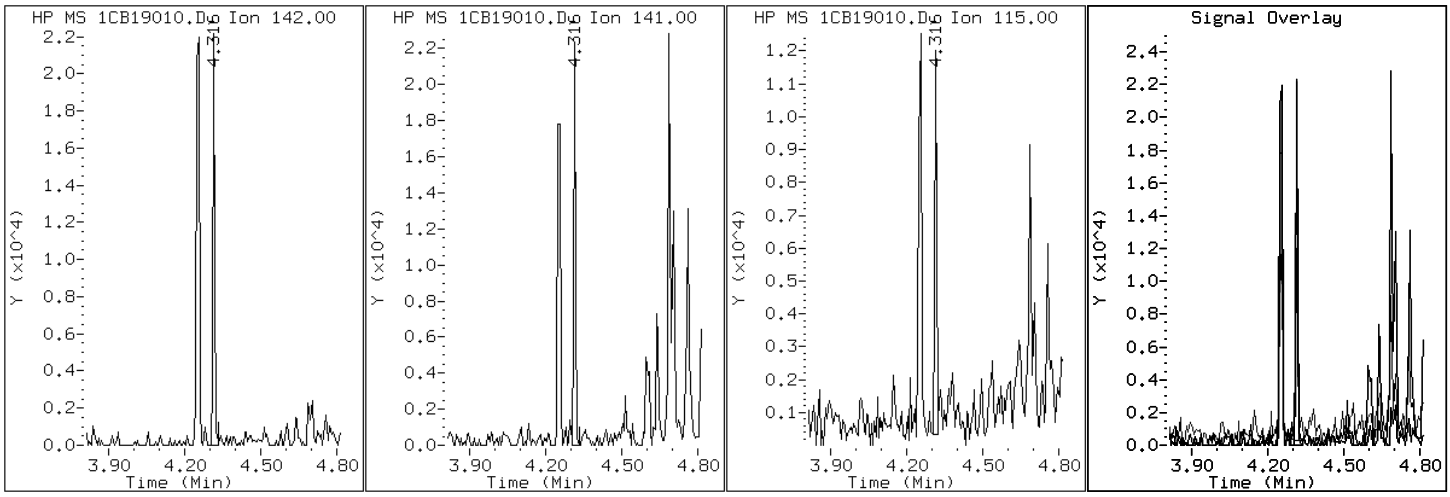
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

4 1-Methylnaphthalene



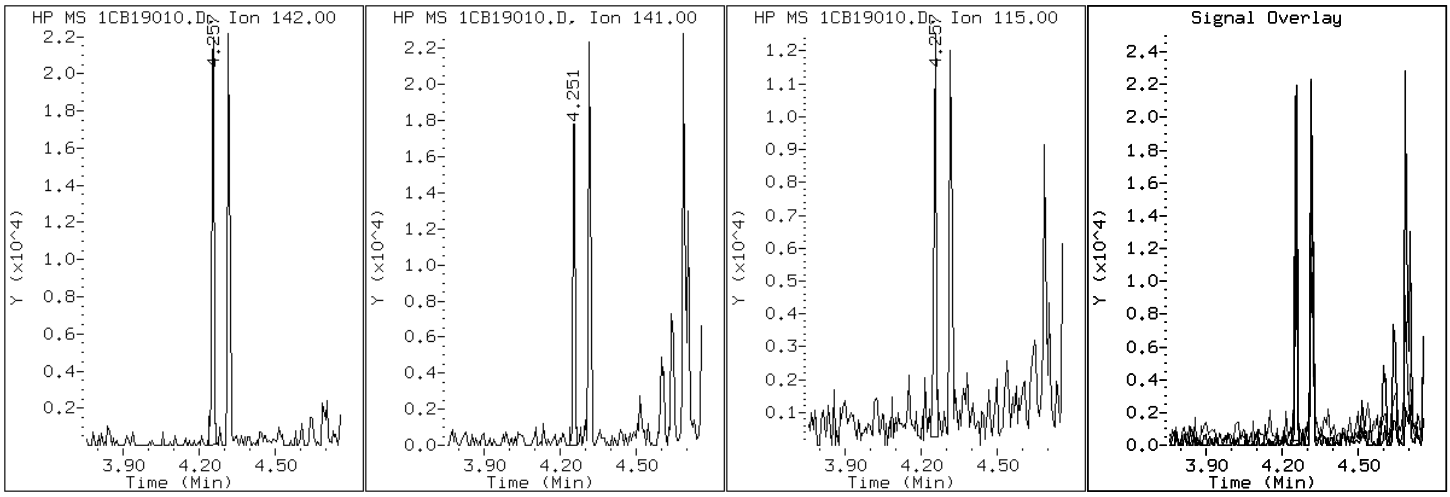
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

3 2-Methylnaphthalene



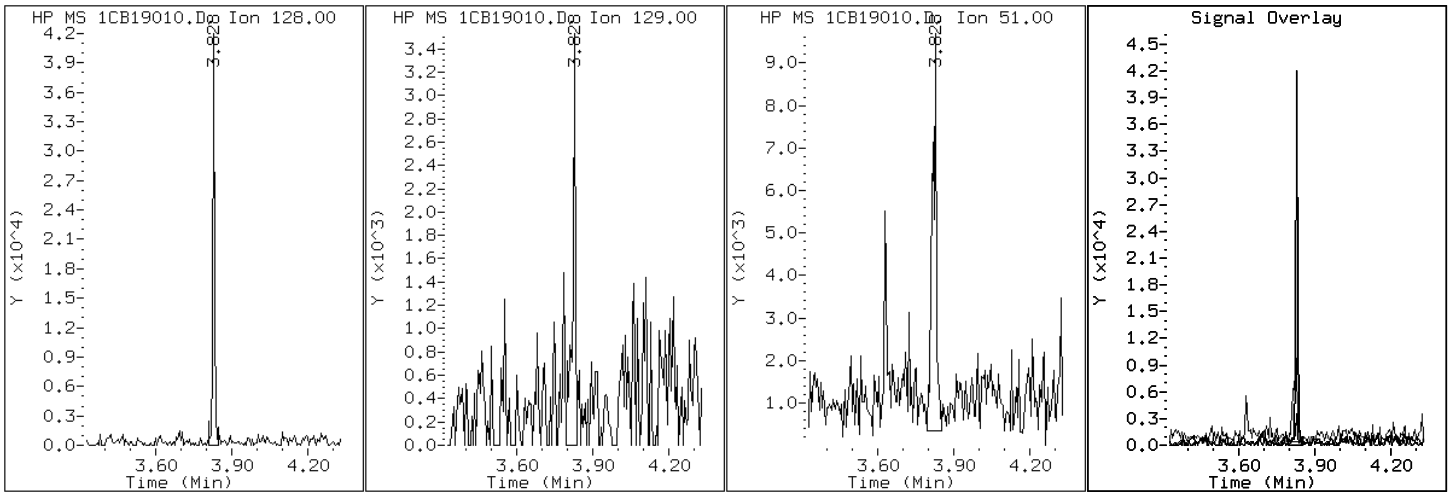
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

2 Naphthalene



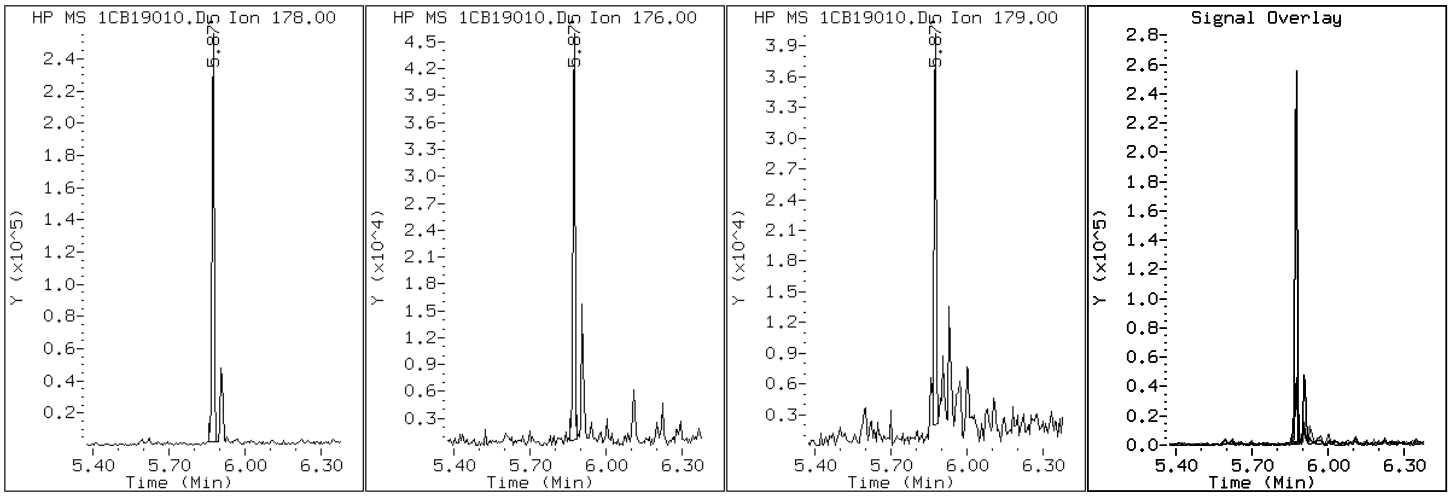
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

11 Phenanthrene



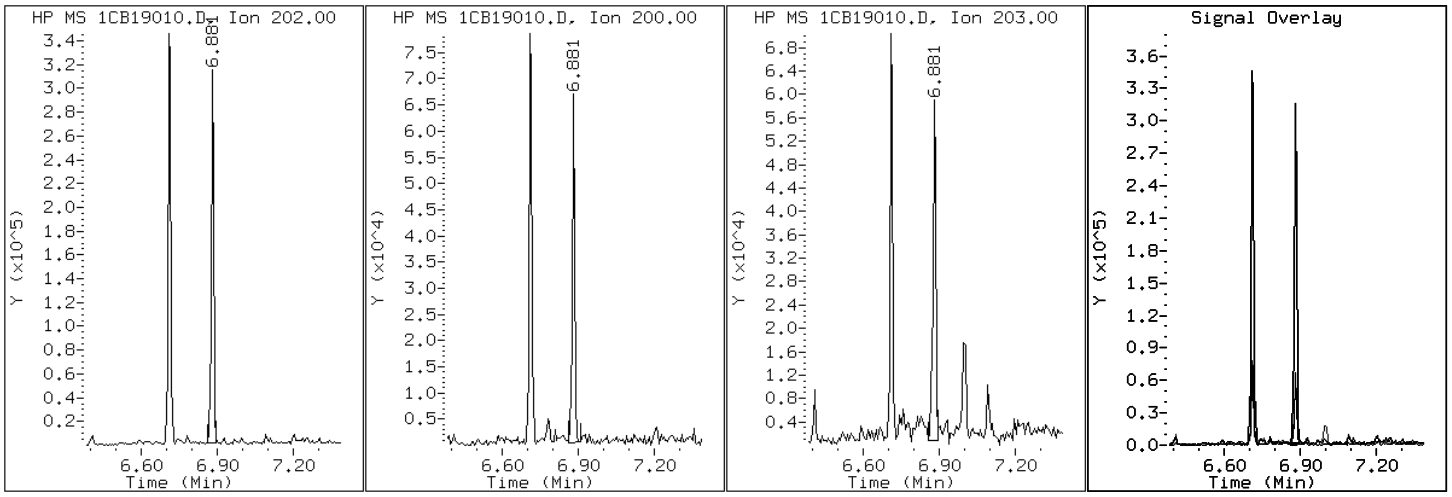
Data File: 1CB19010.D

Date: 19-FEB-2013 16:18

Client ID: CV0748NN-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-16-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19010.D
Inj. Date and Time: 19-FEB-2013 16:18
Instrument ID: BSMC5973.i
Client ID: CV0748NN-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

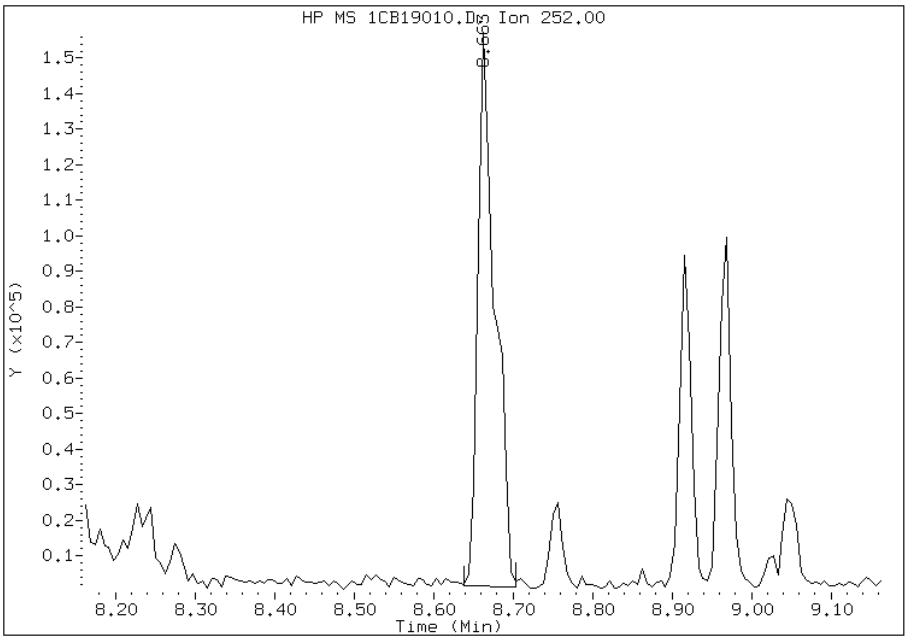
Processing Integration Results

RT: 8.66

Response: 232432

Amount: 4

Conc: 1176



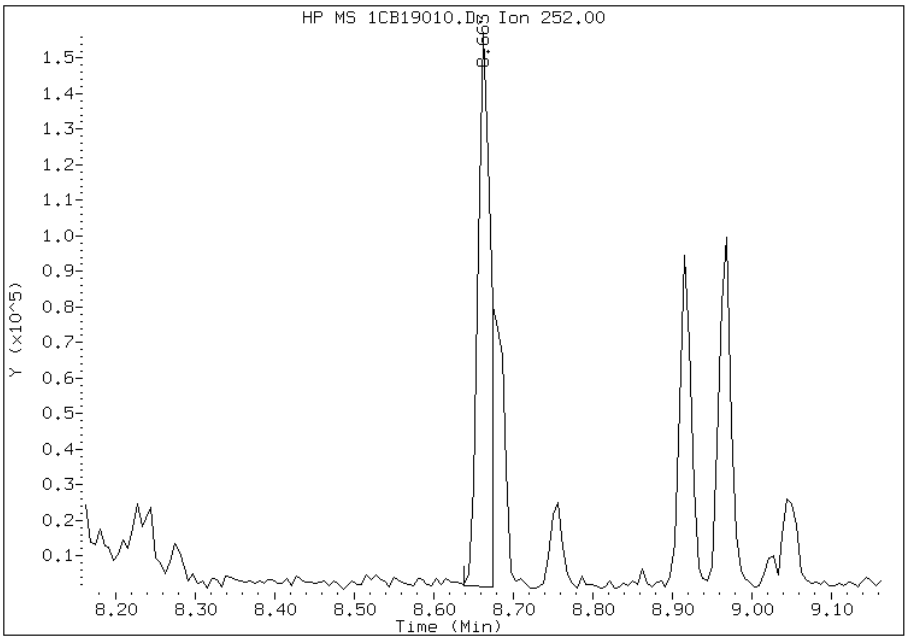
Manual Integration Results

RT: 8.66

Response: 170344

Amount: 3

Conc: 862



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19010.D
Inj. Date and Time: 19-FEB-2013 16:18
Instrument ID: BSMC5973.i
Client ID: CV0748NN-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

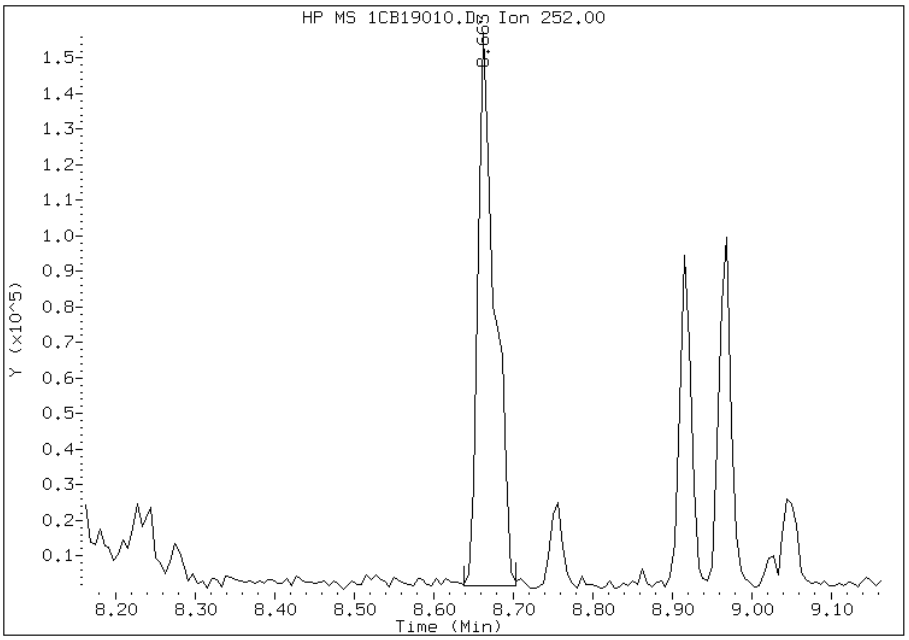
Processing Integration Results

RT: 8.66

Response: 232032

Amount: 3

Conc: 1065



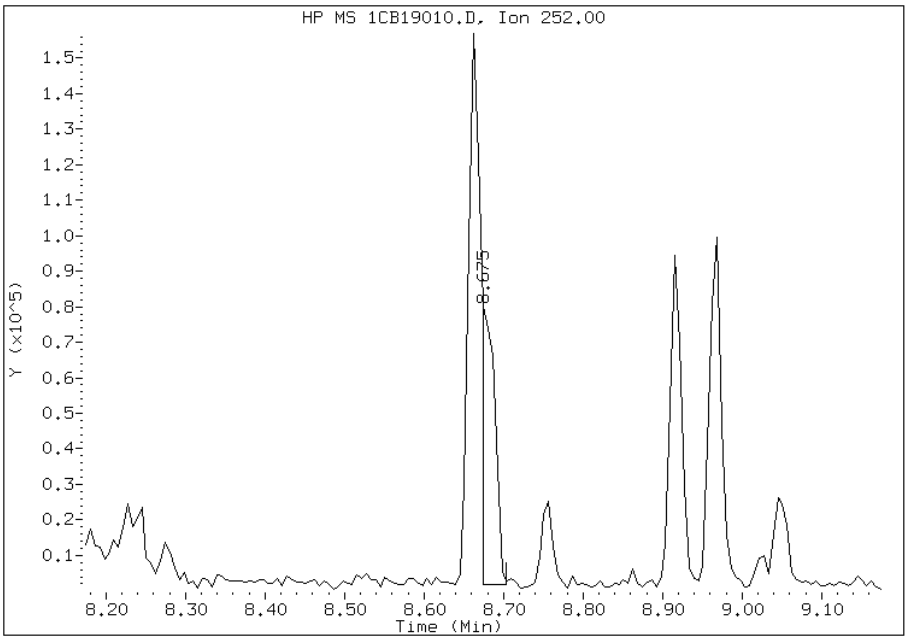
Manual Integration Results

RT: 8.67

Response: 89252

Amount: 1

Conc: 410



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19010.D
Inj. Date and Time: 19-FEB-2013 16:18
Instrument ID: BSMC5973.i
Client ID: CV0748NN-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

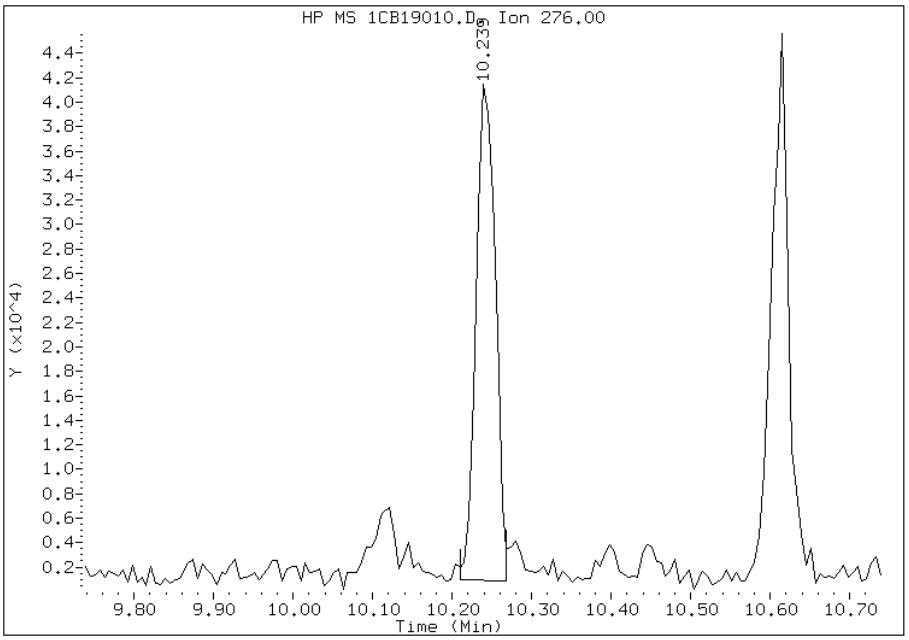
Processing Integration Results

RT: 10.24

Response: 67981

Amount: 1

Conc: 376



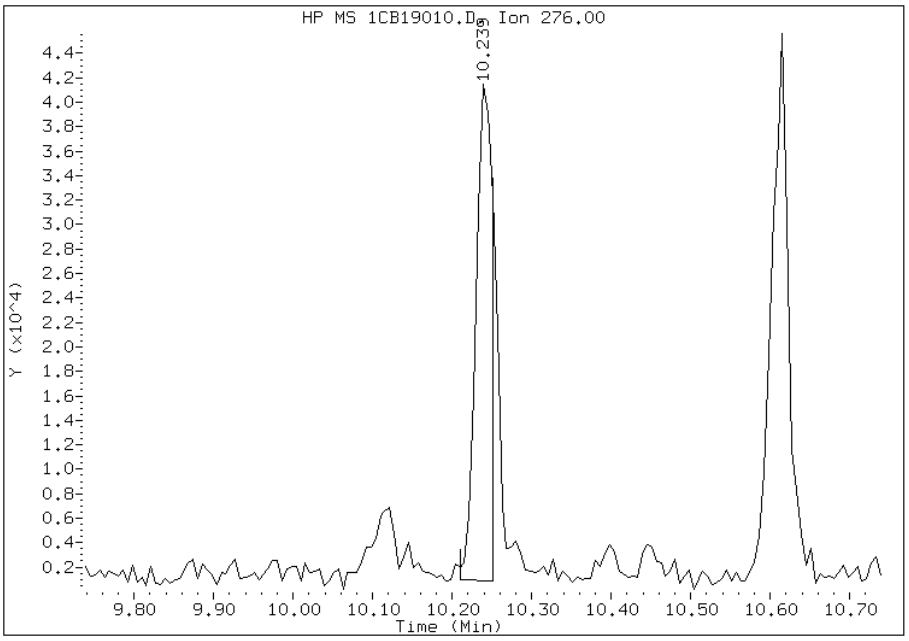
Manual Integration Results

RT: 10.24

Response: 57695

Amount: 1

Conc: 319



Manually Integrated By: cantins
Modification Date: 20-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.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV074800-CS | Lab Sample ID: 680-87320-17

Matrix: Solid | Lab File ID: 1CB19011.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 11:08

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

Sample wt/vol: 15.25(g) | Date Analyzed: 02/19/2013 16:36

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

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

% Moisture: 25.3 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	53	J	210	26
120-12-7	Anthracene	64		44	22
56-55-3	Benzo[a]anthracene	360		42	21
50-32-8	Benzo[a]pyrene	340		55	27
205-99-2	Benzo[b]fluoranthene	580		64	32
191-24-2	Benzo[g,h,i]perylene	270		110	23
207-08-9	Benzo[k]fluoranthene	180		42	19
218-01-9	Chrysene	400		47	24
53-70-3	Dibenz(a,h)anthracene	79	J	110	22
206-44-0	Fluoranthene	520		110	21
86-73-7	Fluorene	25	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	200		110	37
90-12-0	1-Methylnaphthalene	150	J	210	23
91-57-6	2-Methylnaphthalene	190	J	210	37
91-20-3	Naphthalene	130	J	210	23
85-01-8	Phenanthrene	320		42	21
129-00-0	Pyrene	520		110	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19011.D
Lab Smp Id: 680-87320-A-17-A Client Smp ID: CV0748OO-CS
Inj Date : 19-FEB-2013 16:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-17-a
Misc Info : 680-87320-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 11
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	25.298	% 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)	2080576	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1605184	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2842382	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	89962	2.16009	758.4573
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2818491	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2638679	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	20649	0.37453	131.5075
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	19859	0.55397	194.5118
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	13686	0.41977	147.3903
5 Acenaphthylene	152	4.821	4.816	(0.983)	9600	0.15033	52.7831
9 Fluorene	166	5.245	5.245	(1.070)	3727	0.07249	25.4530
11 Phenanthrene	178	5.868	5.874	(1.002)	77861	0.91770	322.2277
12 Anthracene	178	5.904	5.910	(1.008)	13940	0.18236	64.0318
13 Carbazole	167	6.015	6.015	(1.027)	9236	0.13910	48.8412

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)	122446	1.47697	518.5984
16 Pyrene	202	6.880	6.886	(0.882)	110922	1.47827	519.0545
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	80506	1.03580	363.6923
19 Chrysene	228	7.821	7.827	(1.002)	91564	1.14049	400.4540
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	107549	1.66248	583.7366
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	35574	0.49915	175.2638
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	58997	0.95840	336.5163
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.251	(1.135)	33699	0.56996	200.1269(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.268	(1.136)	12583	0.22568	79.2415
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	45701	0.76093	267.1811

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB19011.D

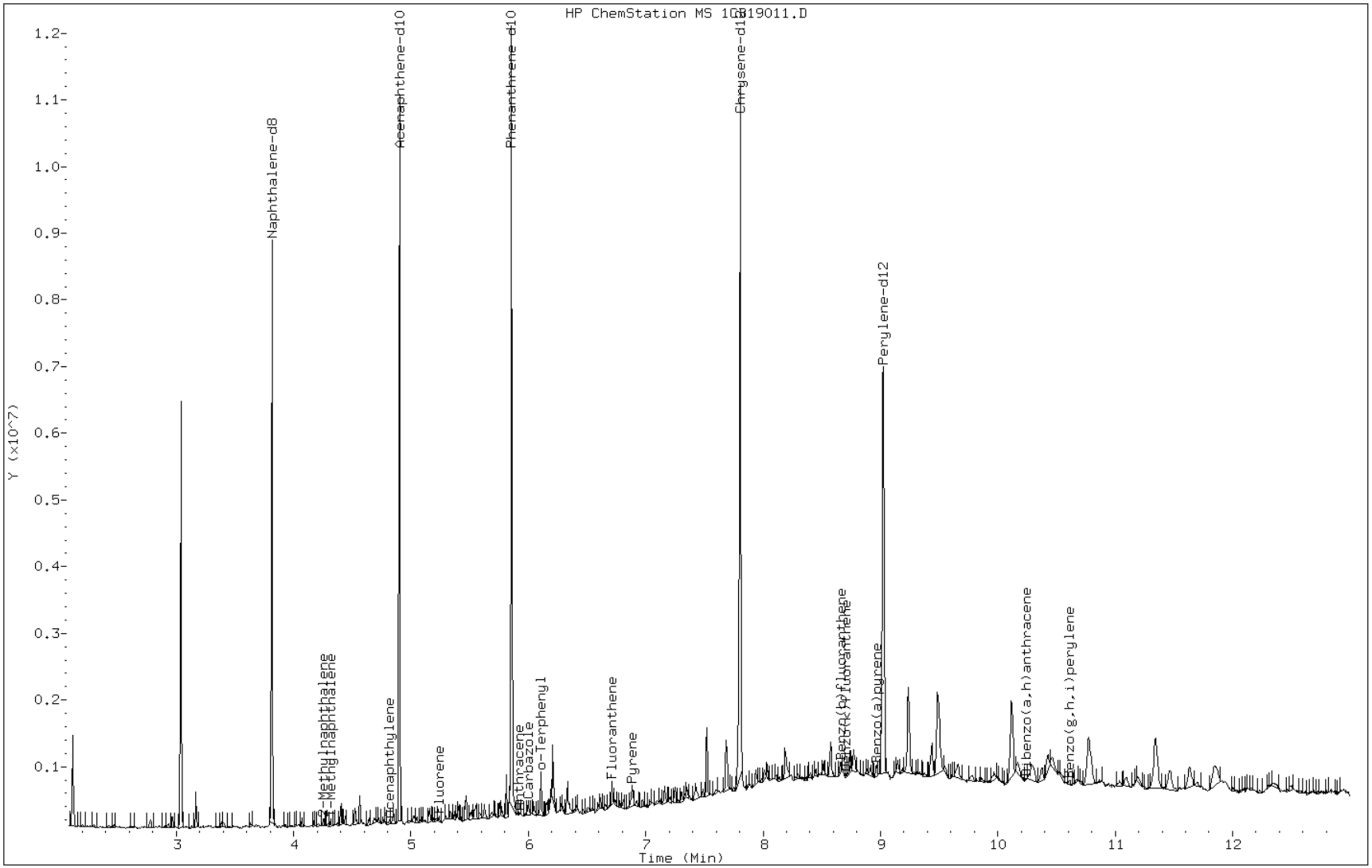
Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a

Operator: SCC



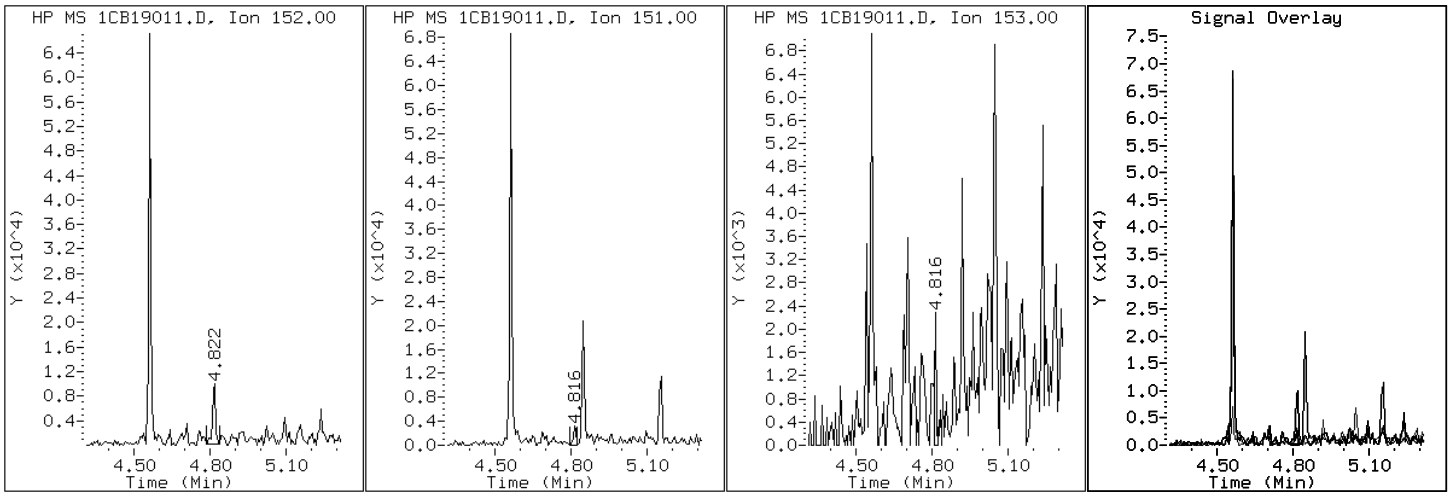
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

5 Acenaphthylene



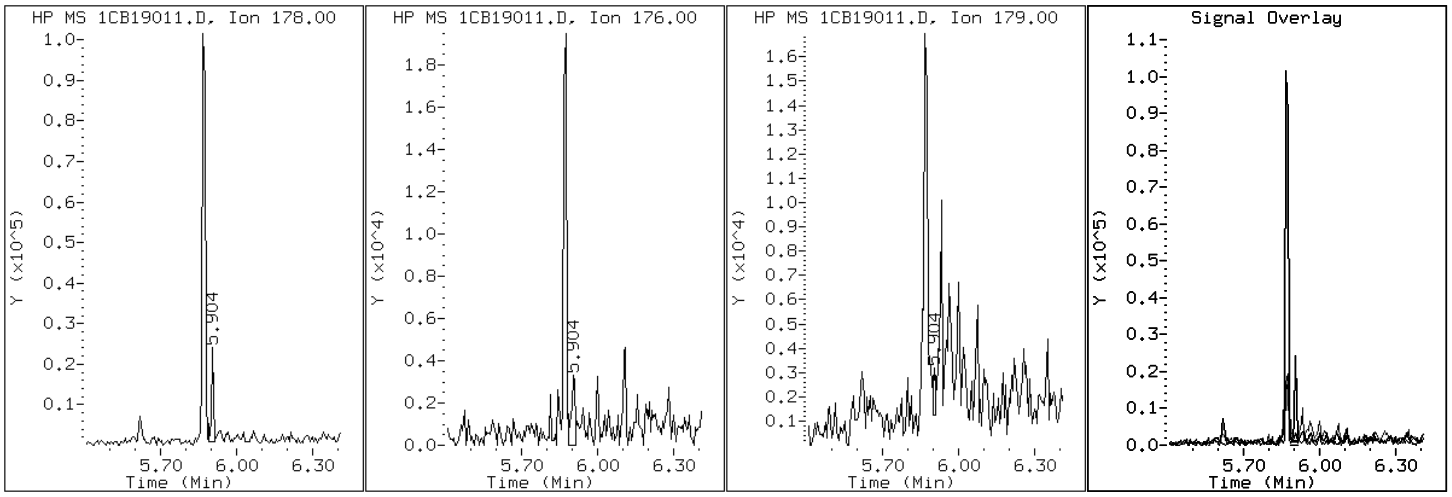
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

12 Anthracene



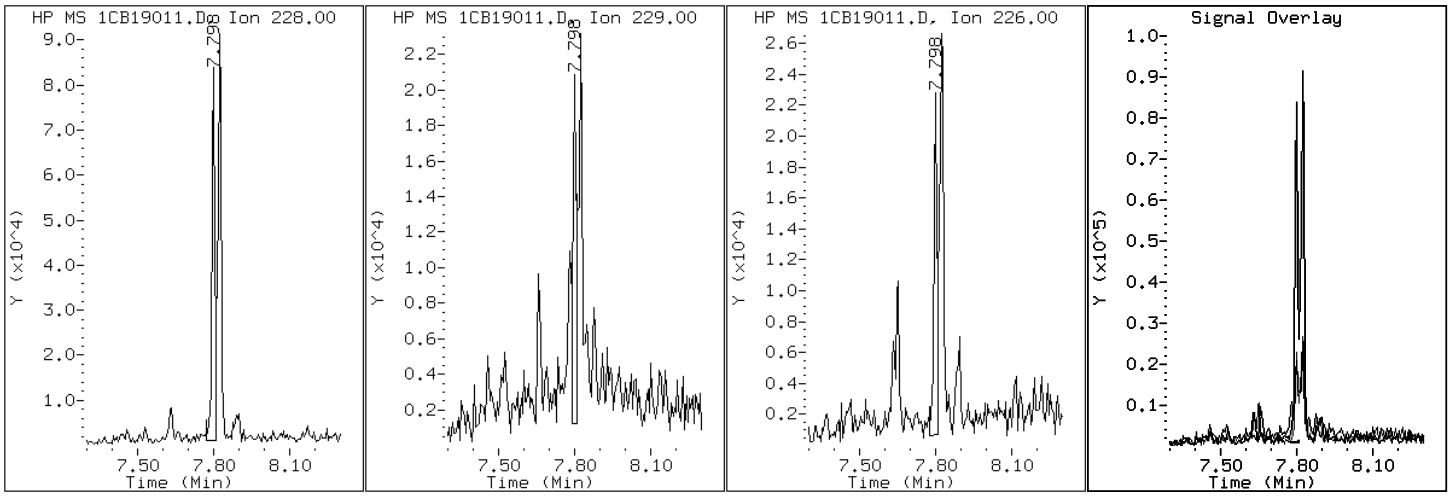
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

17 Benzo(a)anthracene



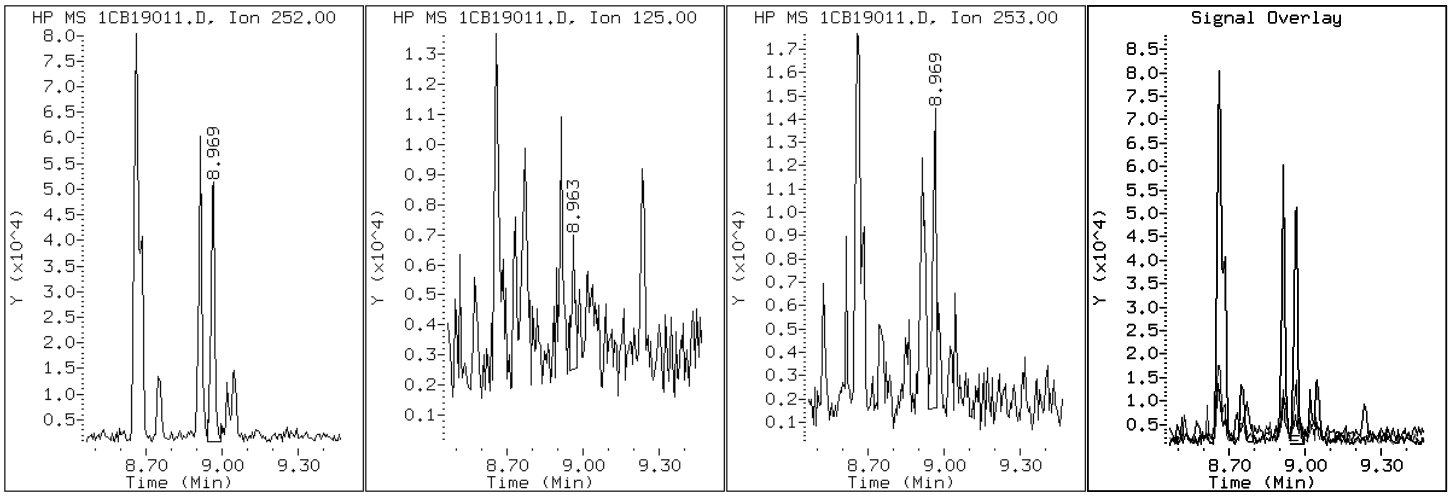
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

22 Benzo(a)pyrene



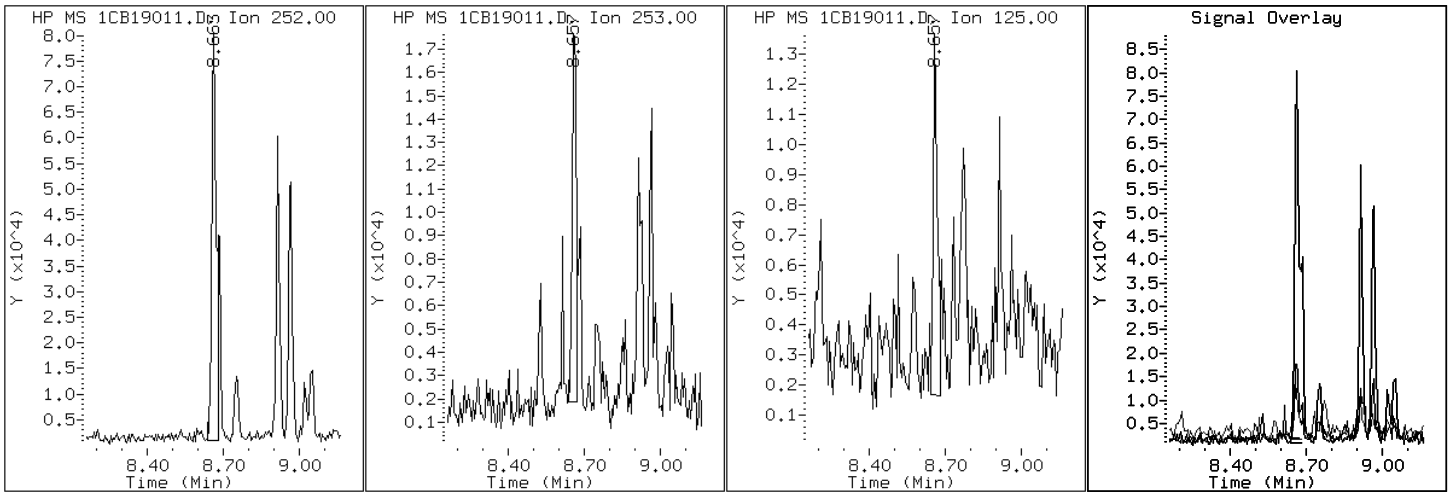
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

20 Benzo(b)fluoranthene



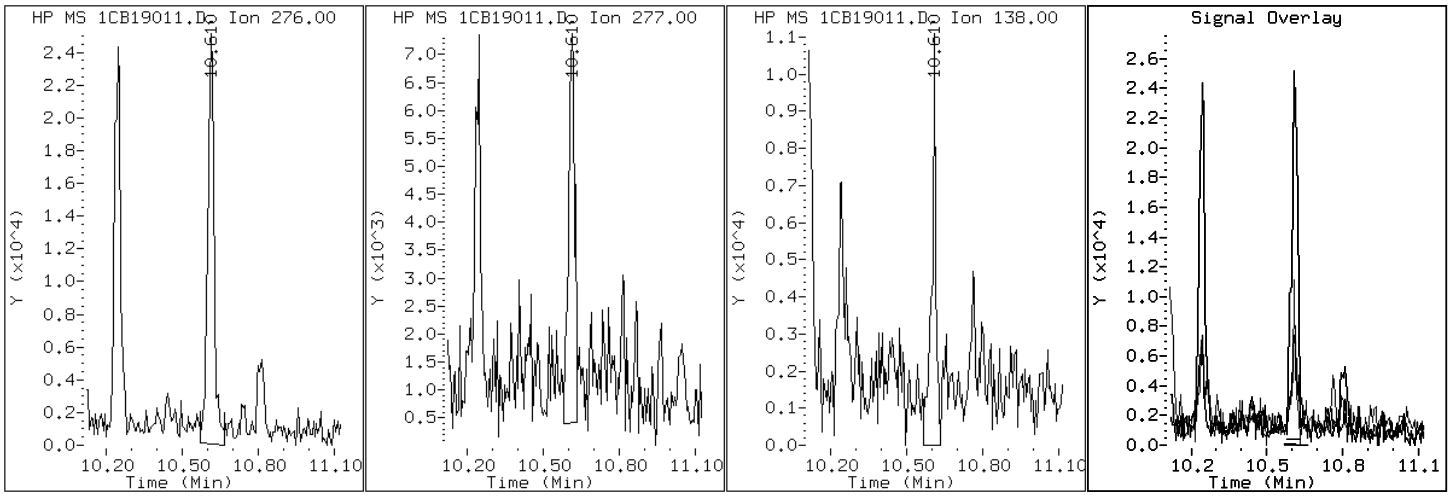
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

26 Benzo(g,h,i)perylene



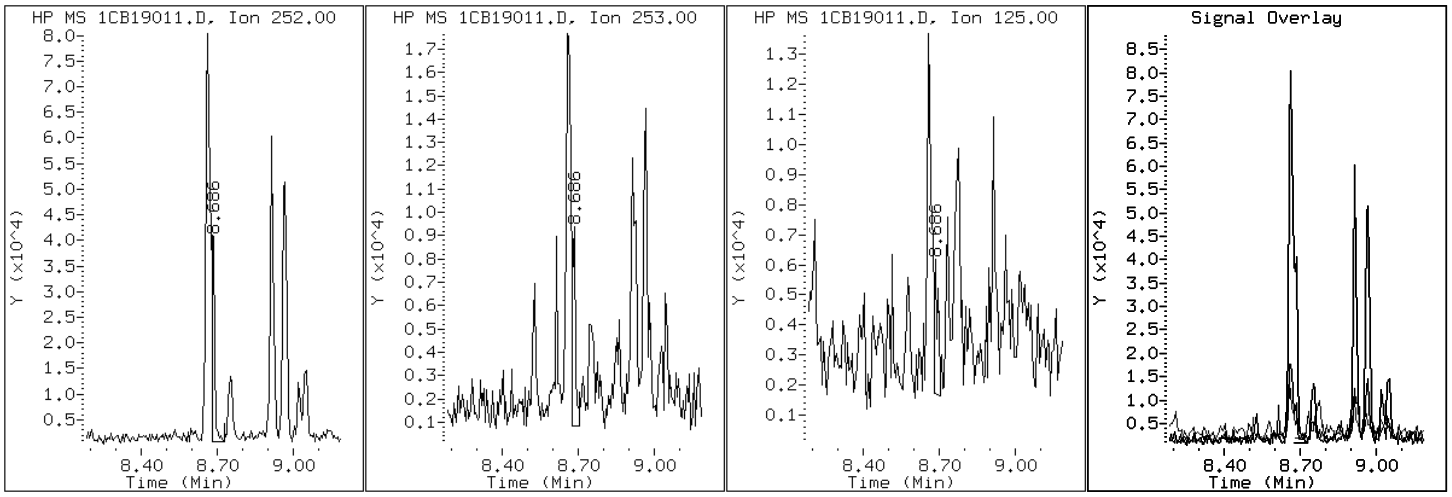
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

21 Benzo(k)fluoranthene



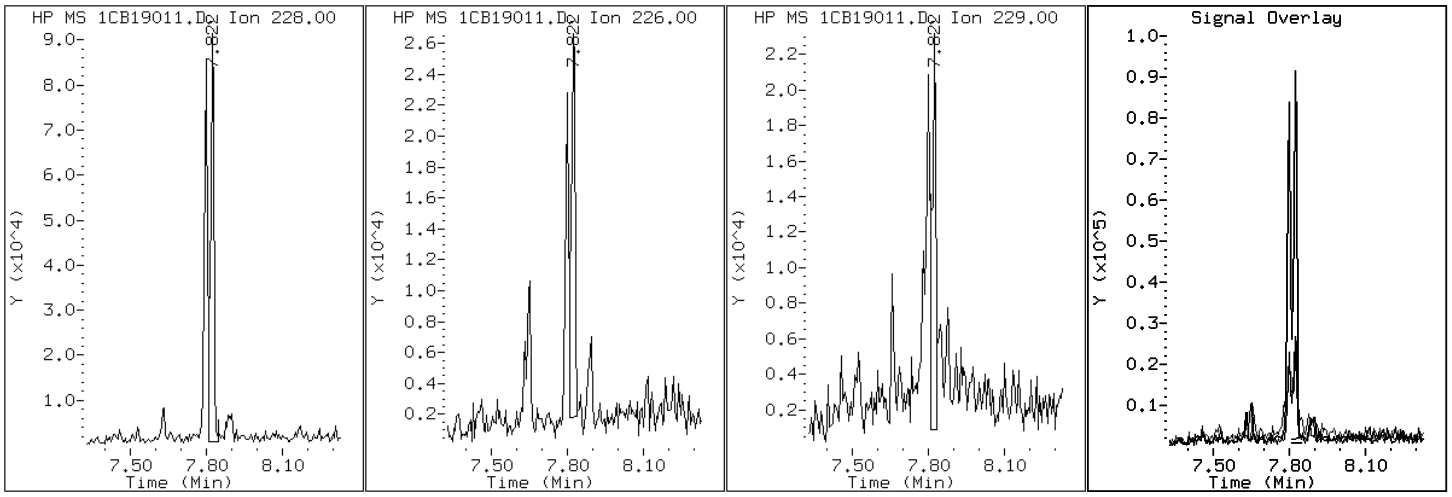
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

19 Chrysene



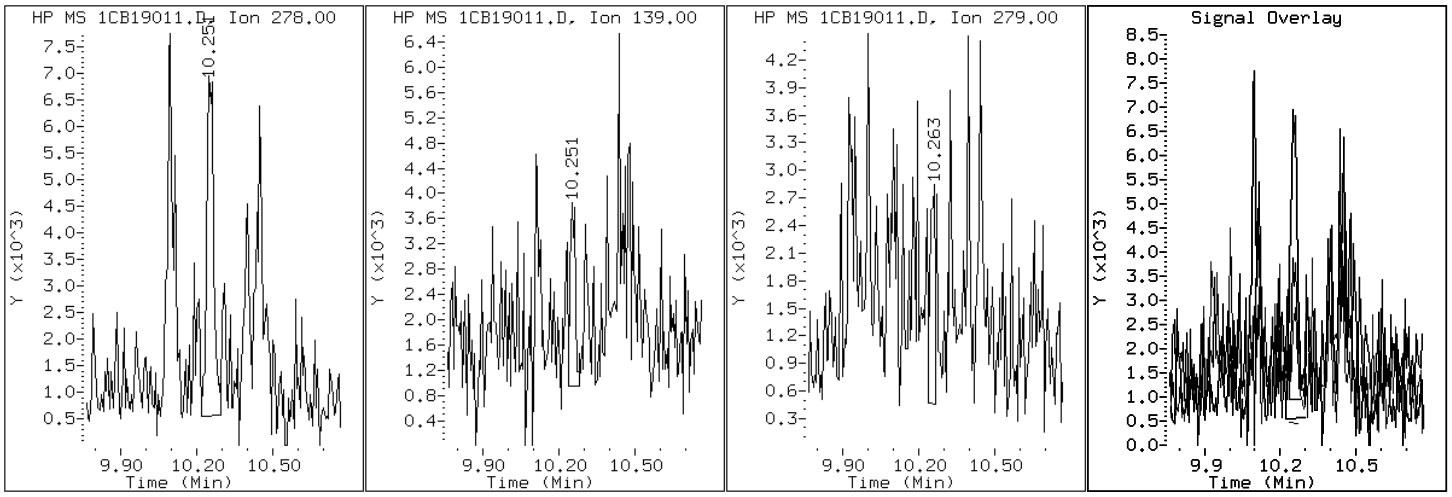
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

25 Dibenzo(a,h)anthracene



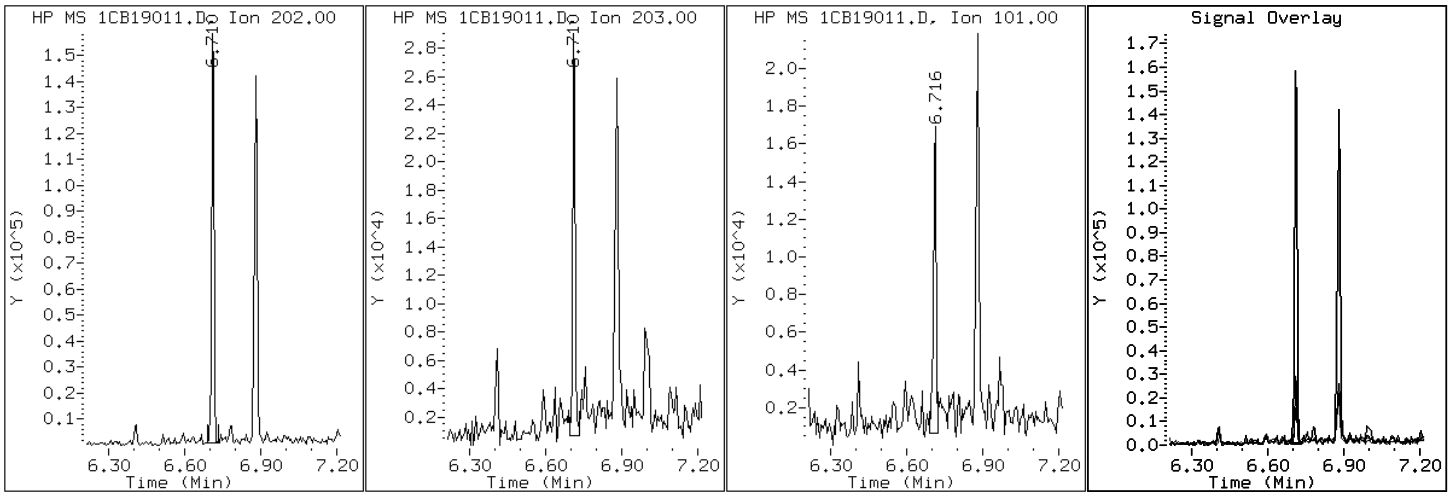
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

15 Fluoranthene



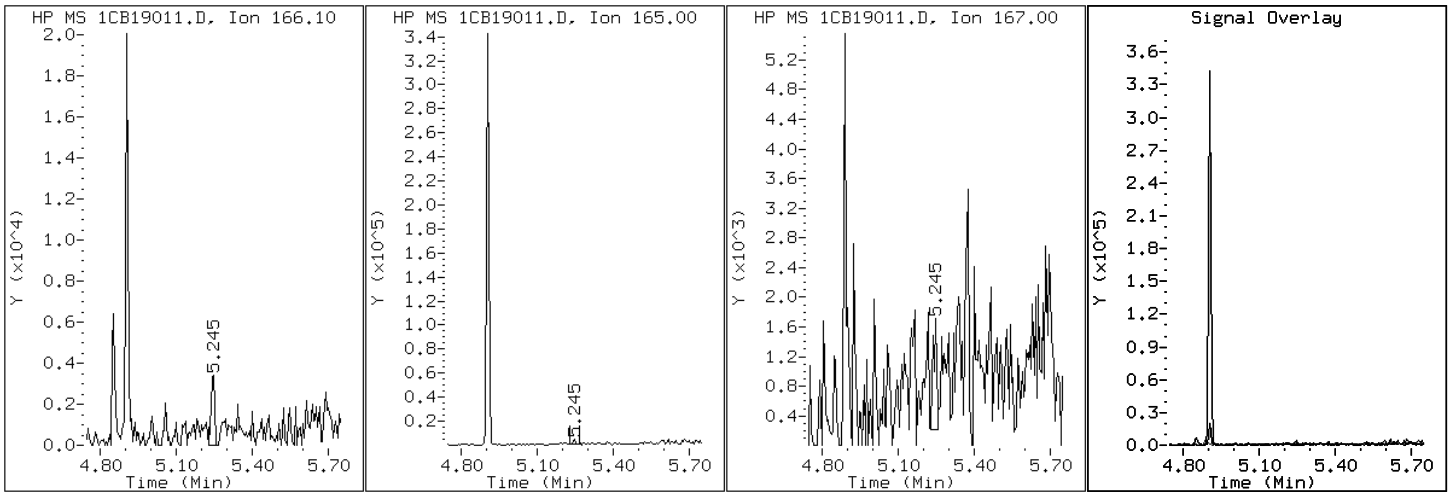
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

9 Fluorene



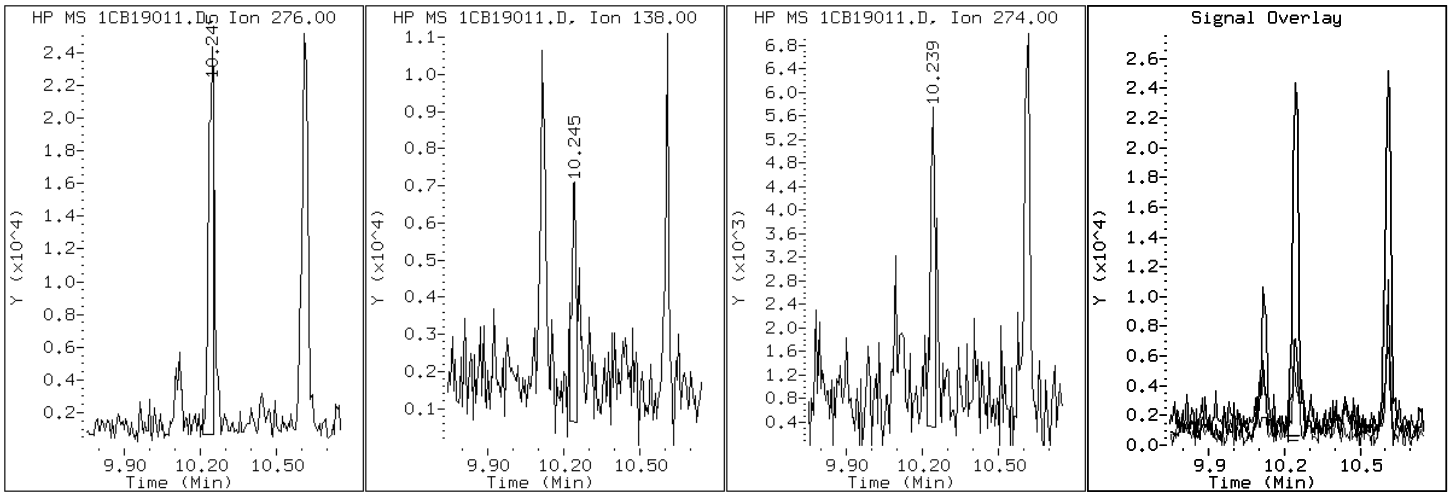
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

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



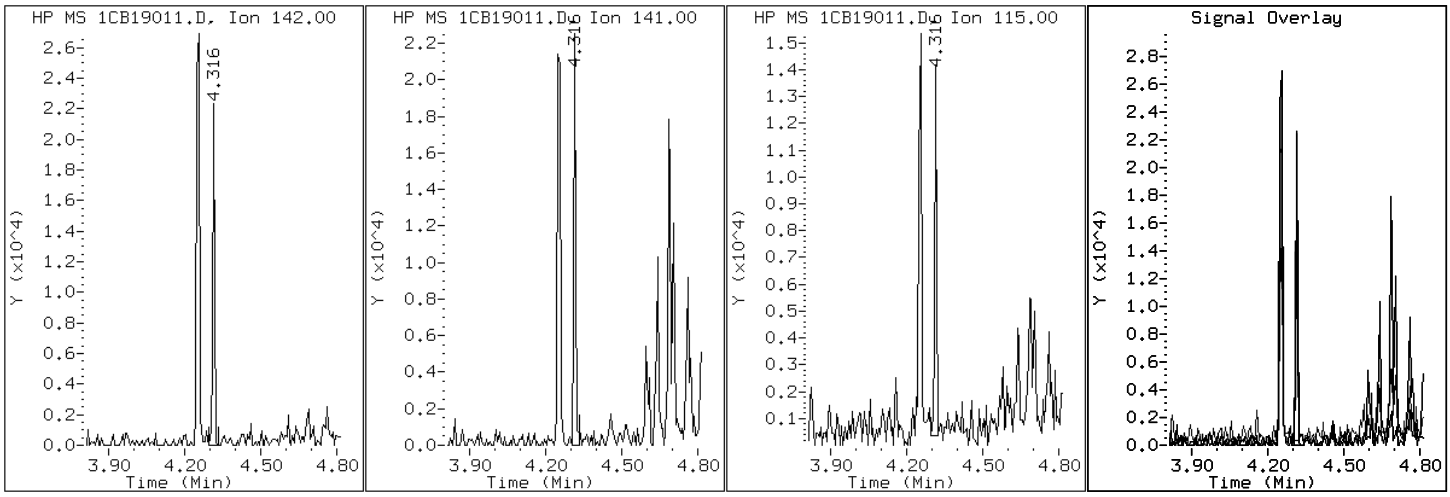
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

4 1-Methylnaphthalene



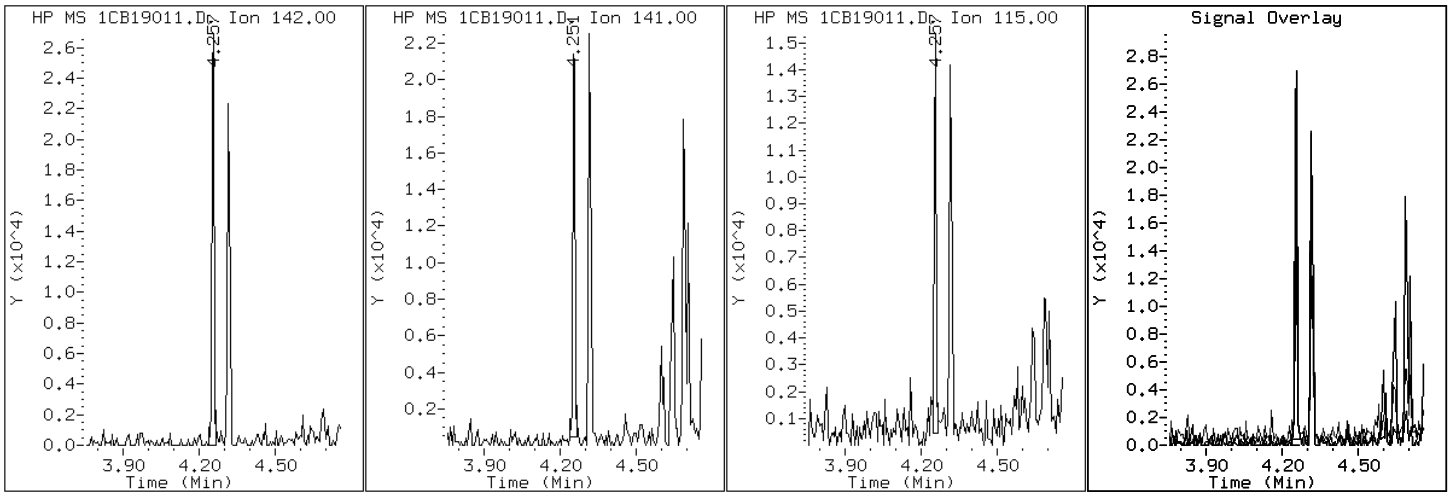
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

3 2-Methylnaphthalene



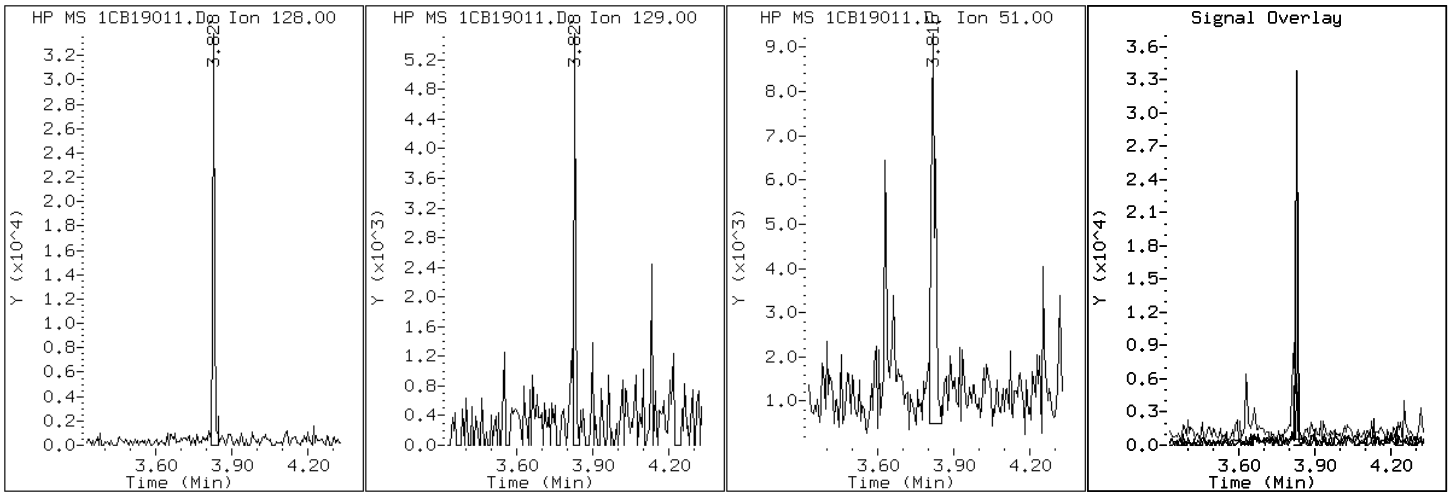
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

2 Naphthalene



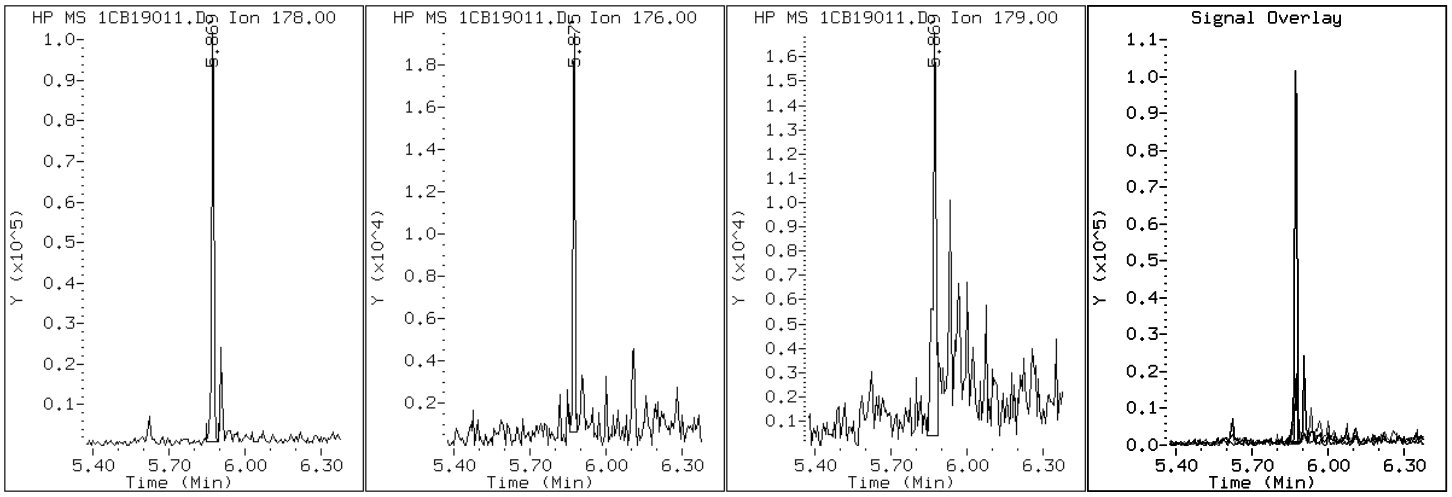
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

11 Phenanthrene



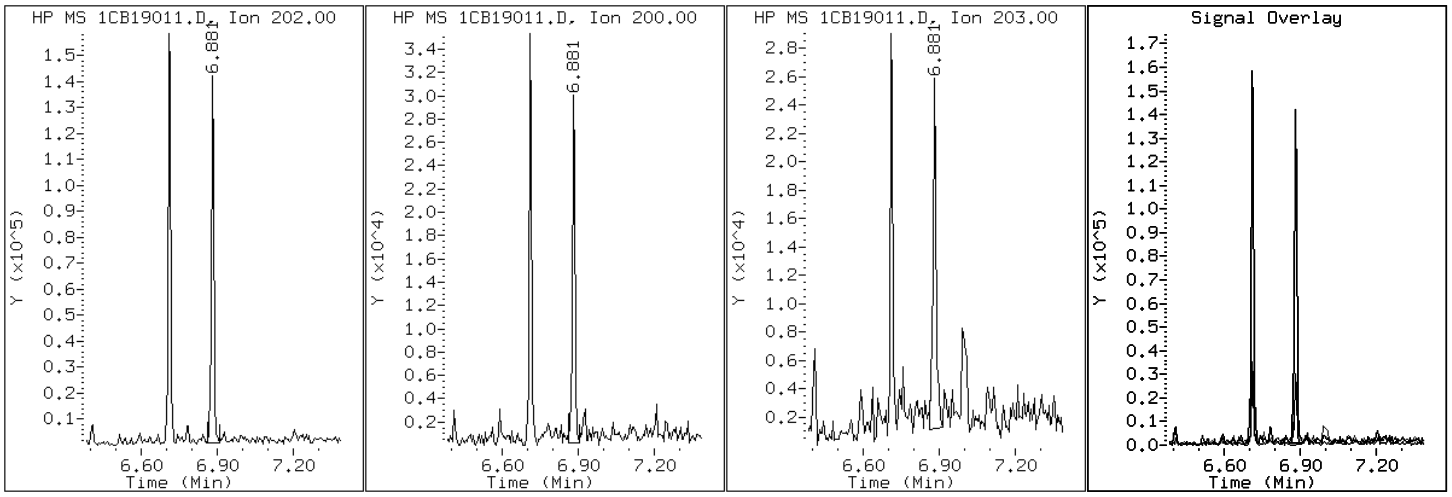
Data File: 1CB19011.D

Date: 19-FEB-2013 16:36

Client ID: CV0748OO-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-17-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19011.D
Inj. Date and Time: 19-FEB-2013 16:36
Instrument ID: BSMC5973.i
Client ID: CV0748OO-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

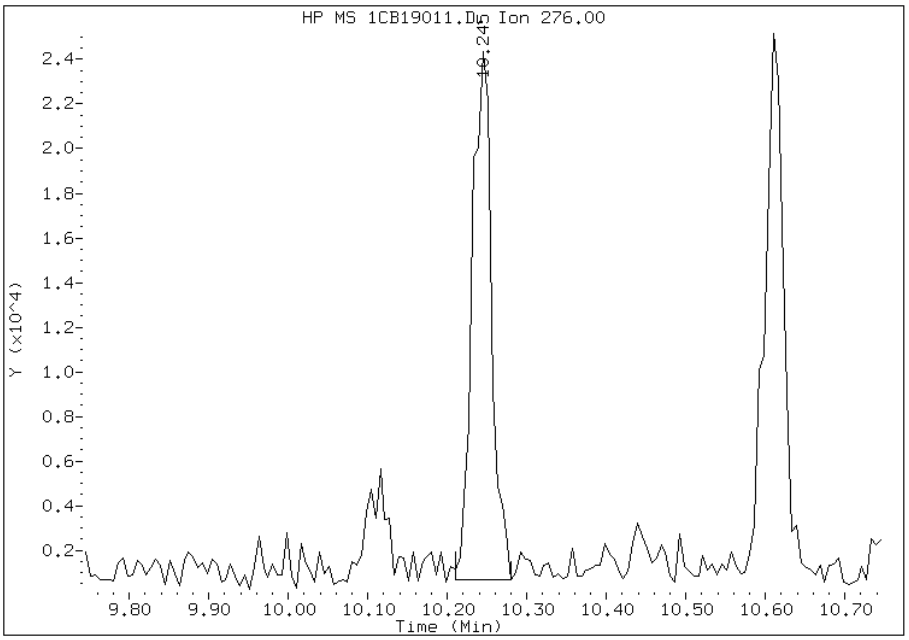
Processing Integration Results

RT: 10.25

Response: 40104

Amount: 1

Conc: 238



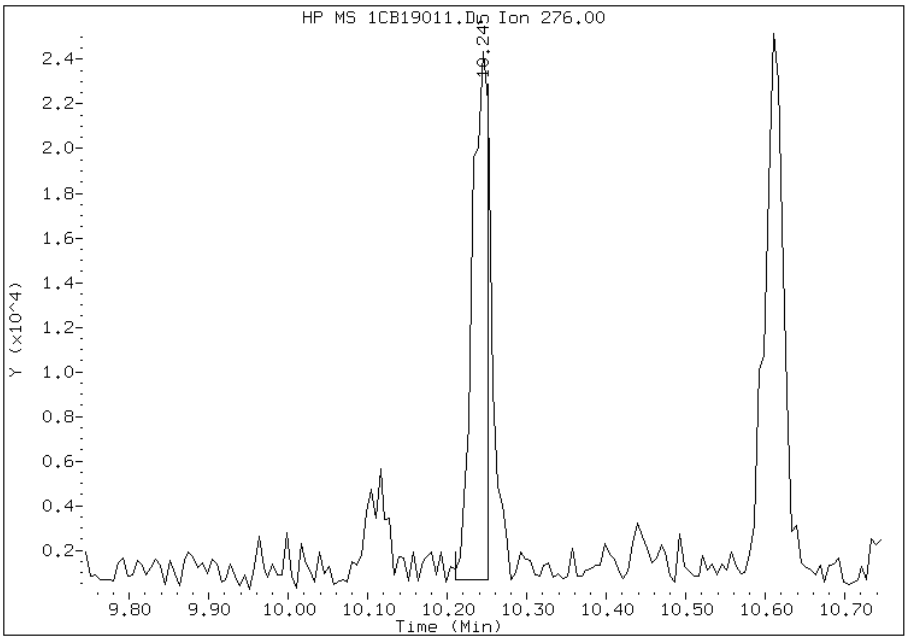
Manual Integration Results

RT: 10.25

Response: 33699

Amount: 1

Conc: 200



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748QQ-CS | Lab Sample ID: 680-87320-18

Matrix: Solid | Lab File ID: 1CB19012.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 11:12

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

Sample wt/vol: 15.00(g) | Date Analyzed: 02/19/2013 16:55

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

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

% Moisture: 26.2 | GPC Cleanup:(Y/N) N

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	43	J	220	27
120-12-7	Anthracene	47		45	23
56-55-3	Benzo[a]anthracene	340		43	21
50-32-8	Benzo[a]pyrene	360		56	28
205-99-2	Benzo[b]fluoranthene	530		66	33
191-24-2	Benzo[g,h,i]perylene	280		110	24
207-08-9	Benzo[k]fluoranthene	240		43	19
218-01-9	Chrysene	370		49	24
53-70-3	Dibenz(a,h)anthracene	81	J	110	22
206-44-0	Fluoranthene	460		110	22
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	220		110	38
90-12-0	1-Methylnaphthalene	150	J	220	24
91-57-6	2-Methylnaphthalene	130	J	220	38
91-20-3	Naphthalene	130	J	220	24
85-01-8	Phenanthrene	290		43	21
129-00-0	Pyrene	450		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19012.D
Lab Smp Id: 680-87320-A-18-A Client Smp ID: CV0748QQ-CS
Inj Date : 19-FEB-2013 16:55
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-18-a
Misc Info : 680-87320-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 12
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	26.151	% 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)	2038963	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1587906	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2932817	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	104167	2.42404	875.3098
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2964102	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2726633	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	20097	0.37196	134.3133
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	12394	0.35279	127.3903
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	13124	0.41075	148.3184
5 Acenaphthylene	152	4.816	4.816	(0.982)	7579	0.11997	43.3209
11 Phenanthrene	178	5.874	5.874	(1.003)	69183	0.79028	285.3657
12 Anthracene	178	5.910	5.910	(1.009)	10309	0.13070	47.1964
13 Carbazole	167	6.016	6.015	(1.027)	7101	0.10365	37.4267(Q)
15 Fluoranthene	202	6.710	6.715	(1.146)	109609	1.28136	462.6924

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.880	6.886	(0.882)	98559	1.24898	451.0007
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	77105	0.94330	340.6230
19 Chrysene	228	7.821	7.827	(1.002)	86023	1.01884	367.8985
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	97493	1.45842	526.6304(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.961)	48496	0.65851	237.7866(M)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	63589	0.99967	360.9775
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.251	(1.135)	36994	0.60551	218.6461(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.268	(1.136)	12876	0.22349	80.6996(MH)
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.176)	48093	0.77493	279.8233(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: 1CB19012.D

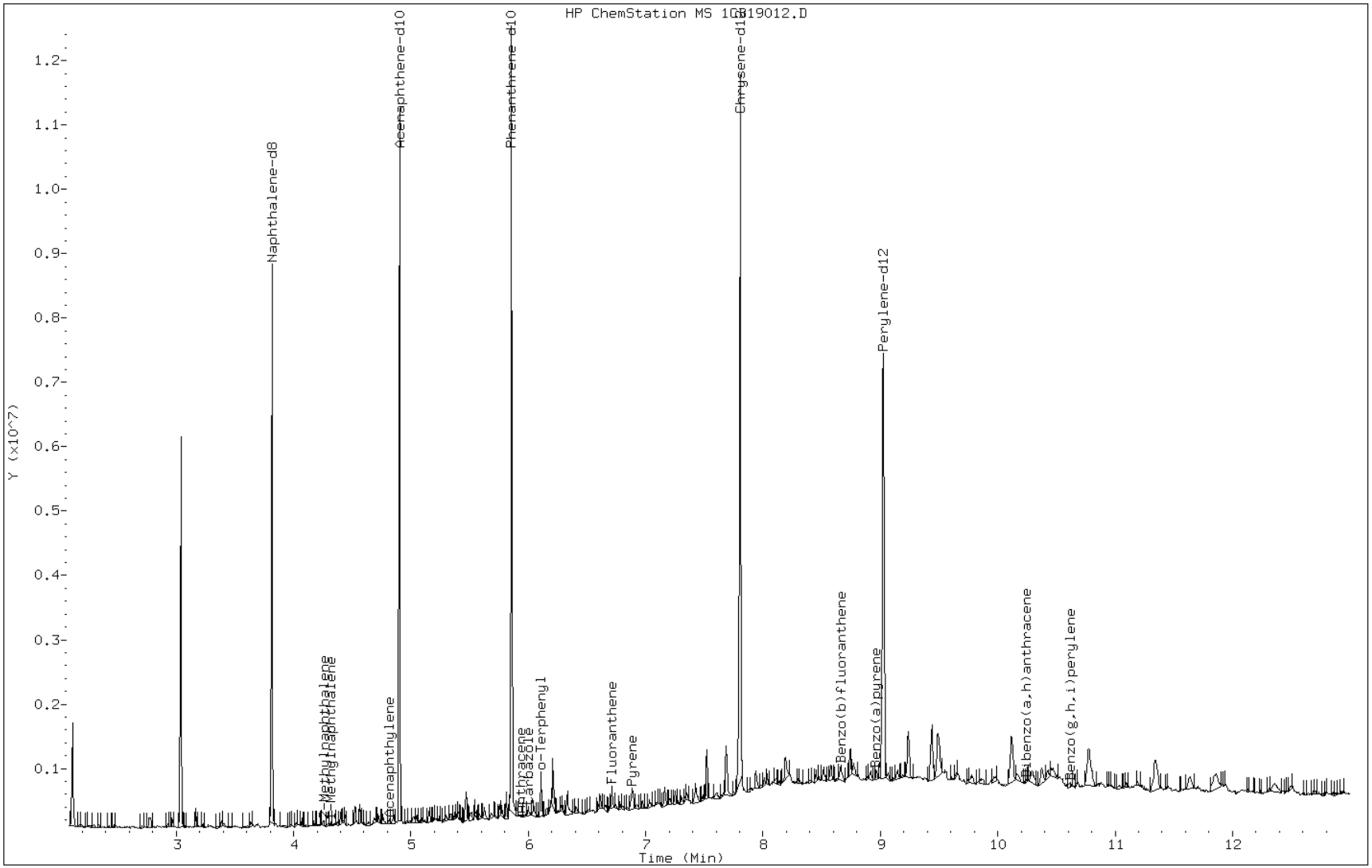
Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a

Operator: SCC



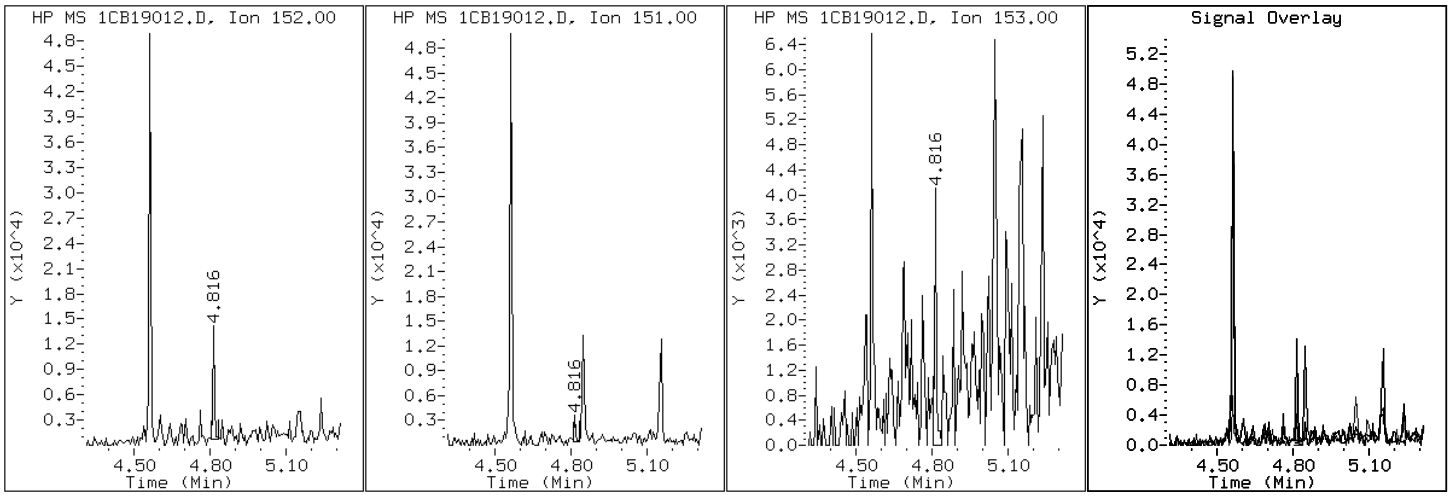
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

5 Acenaphthylene



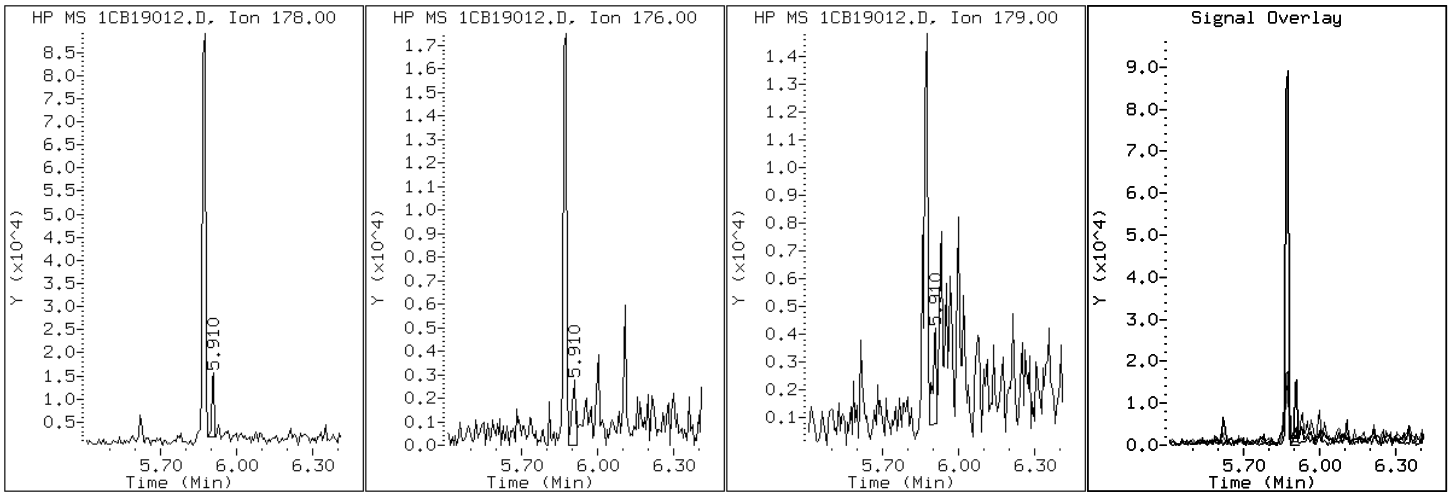
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

12 Anthracene



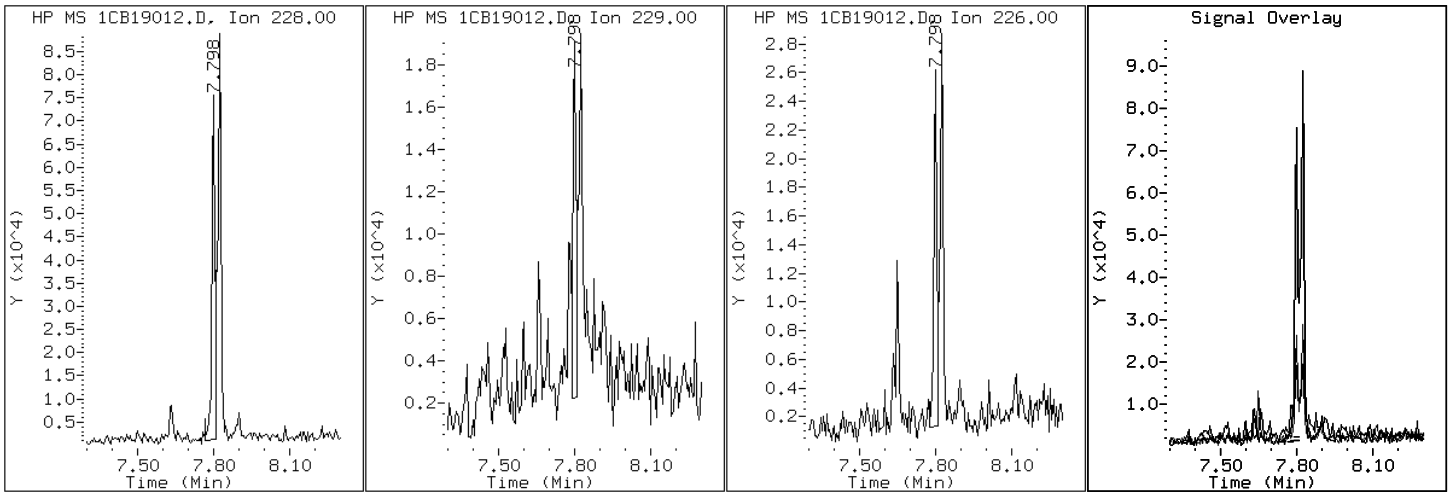
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

17 Benzo(a)anthracene



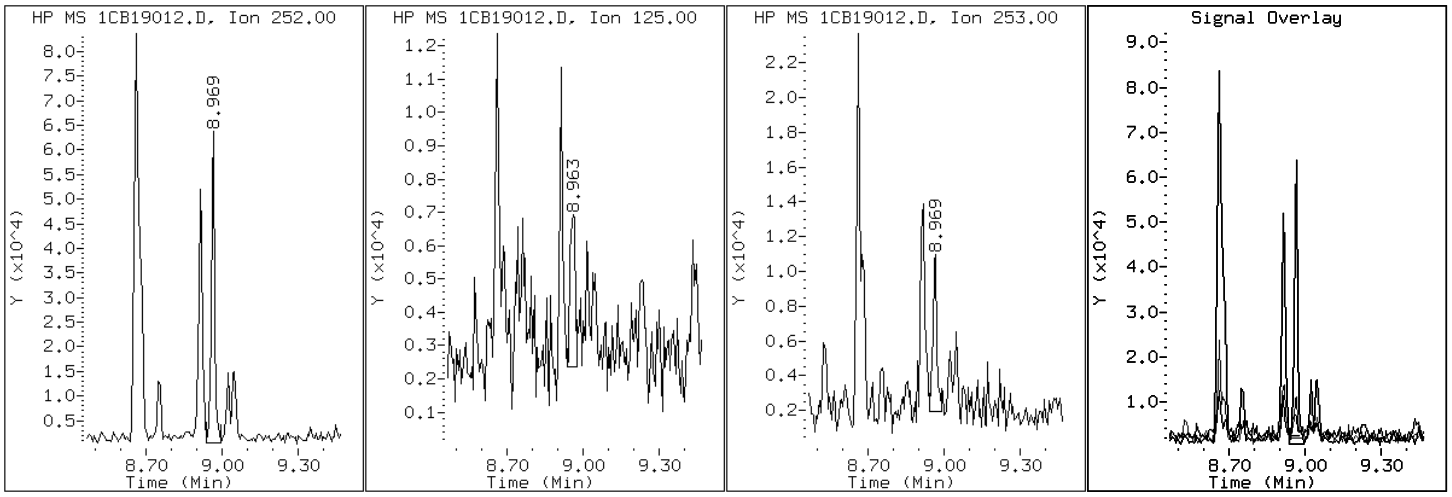
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

22 Benzo(a)pyrene



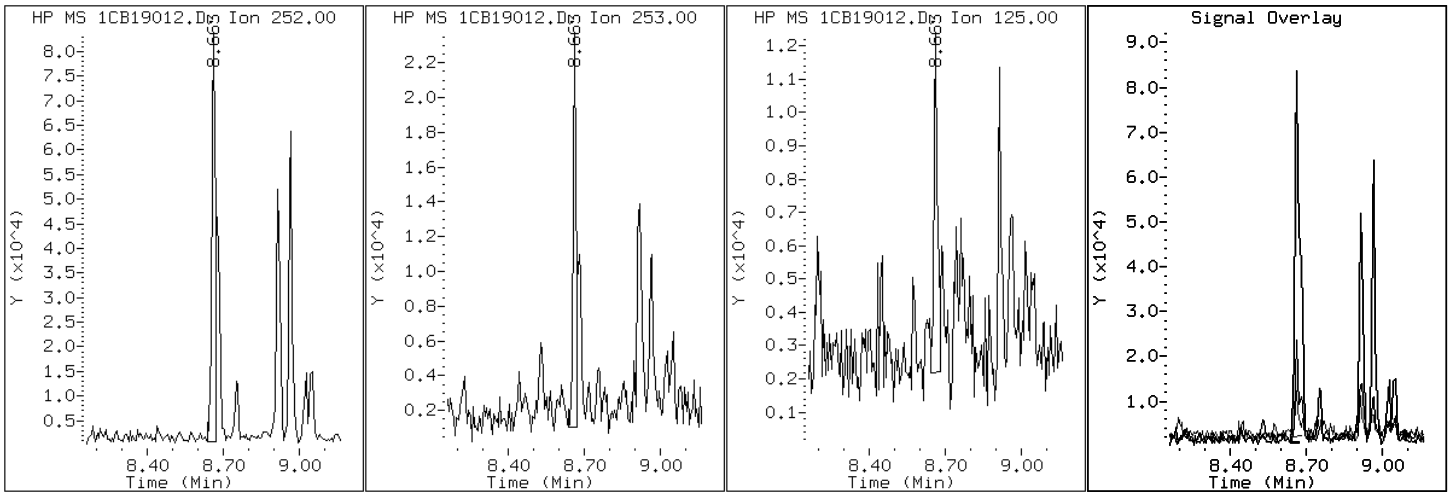
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

20 Benzo(b)fluoranthene



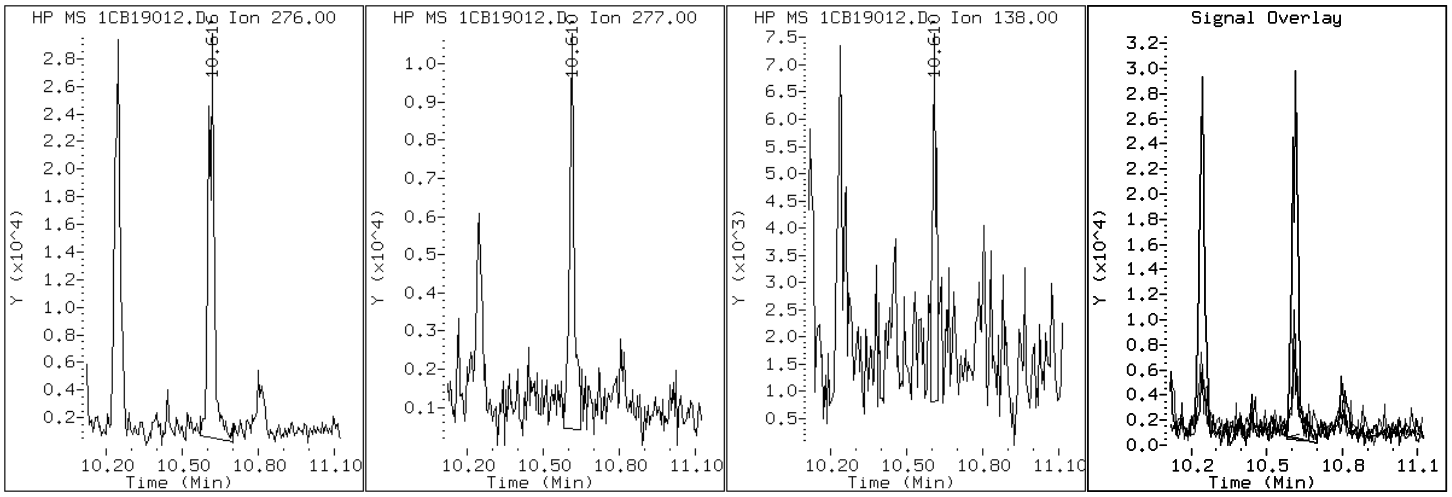
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

26 Benzo(g,h,i)perylene



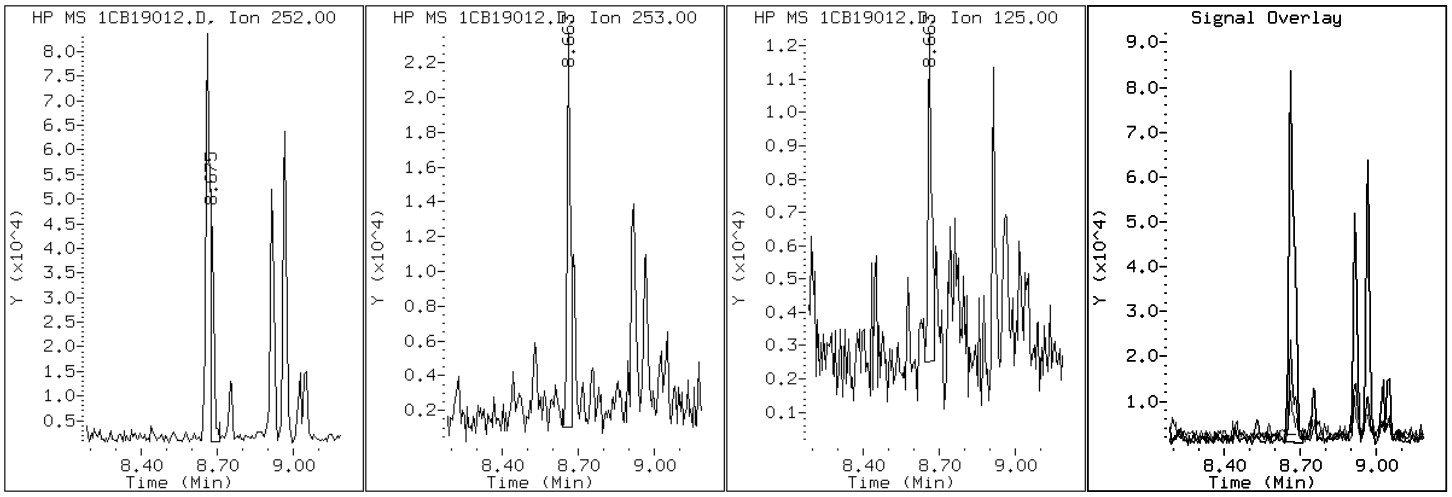
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

21 Benzo(k)fluoranthene



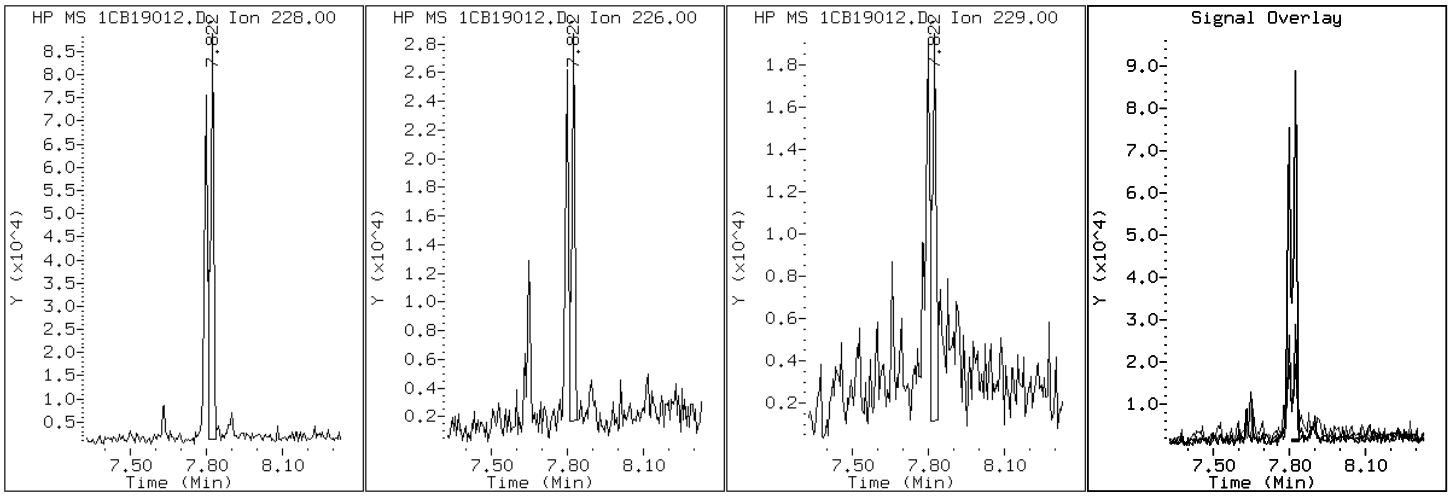
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

19 Chrysene



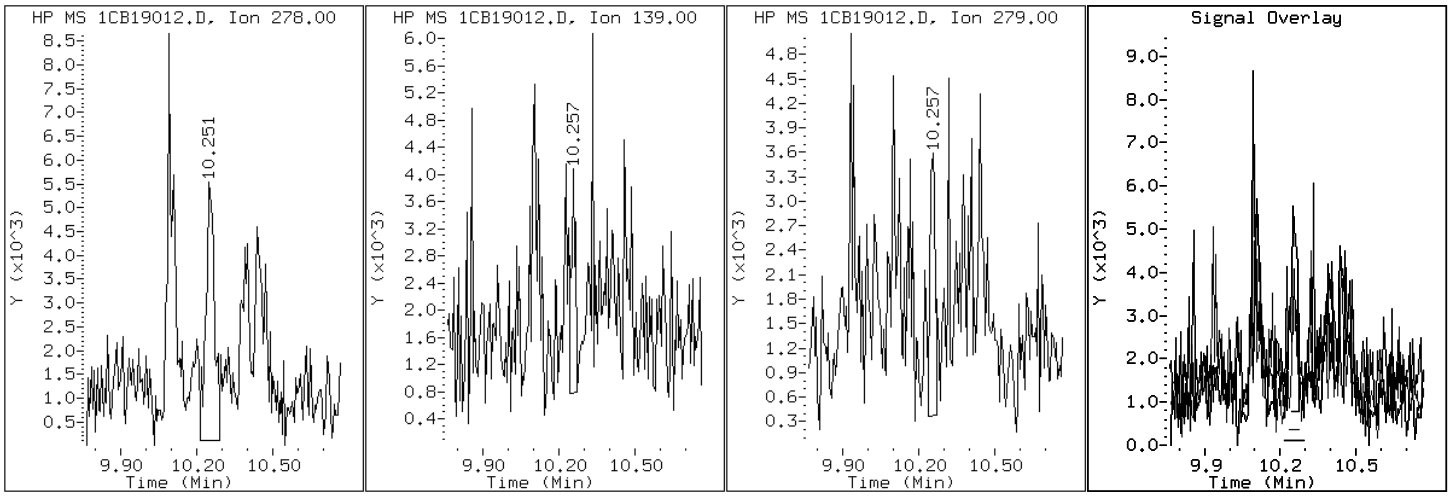
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

25 Dibenzo(a,h)anthracene



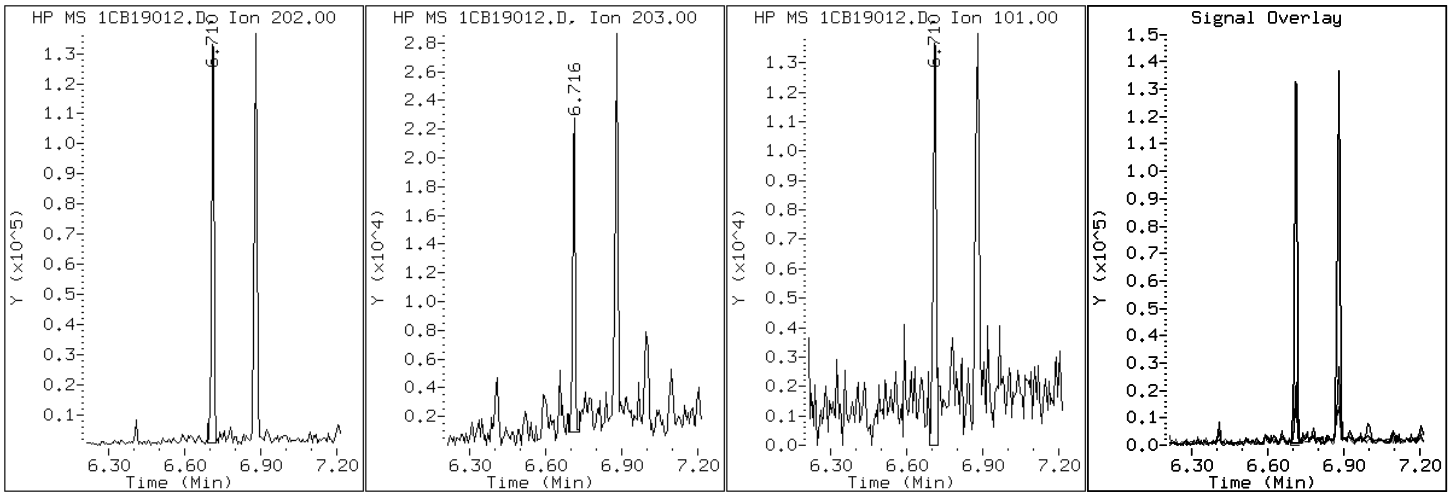
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

15 Fluoranthene



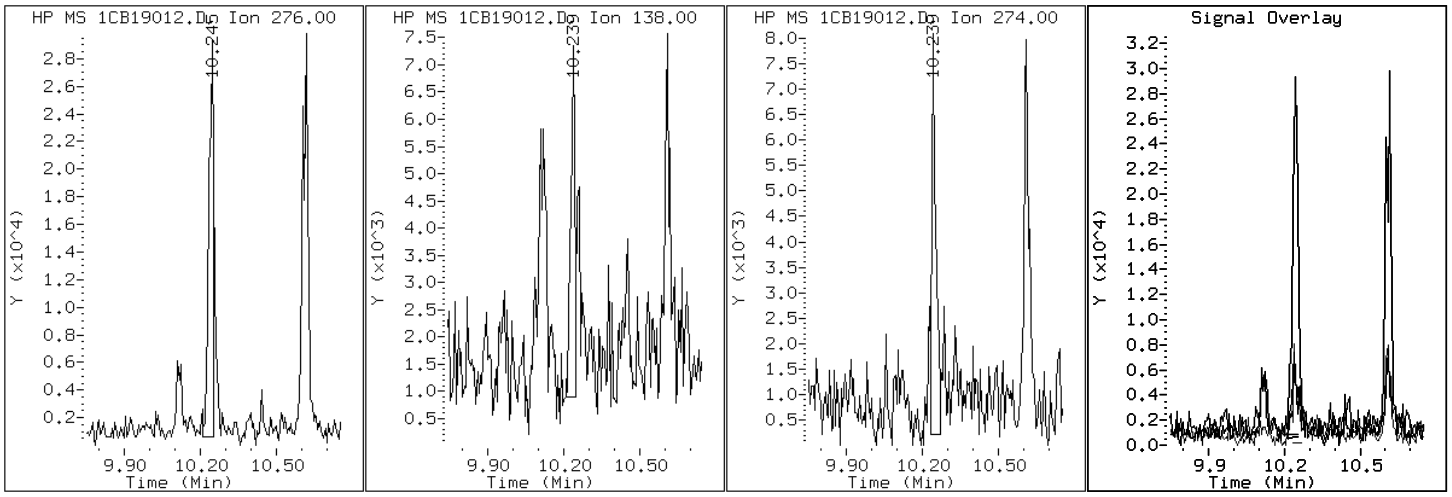
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

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



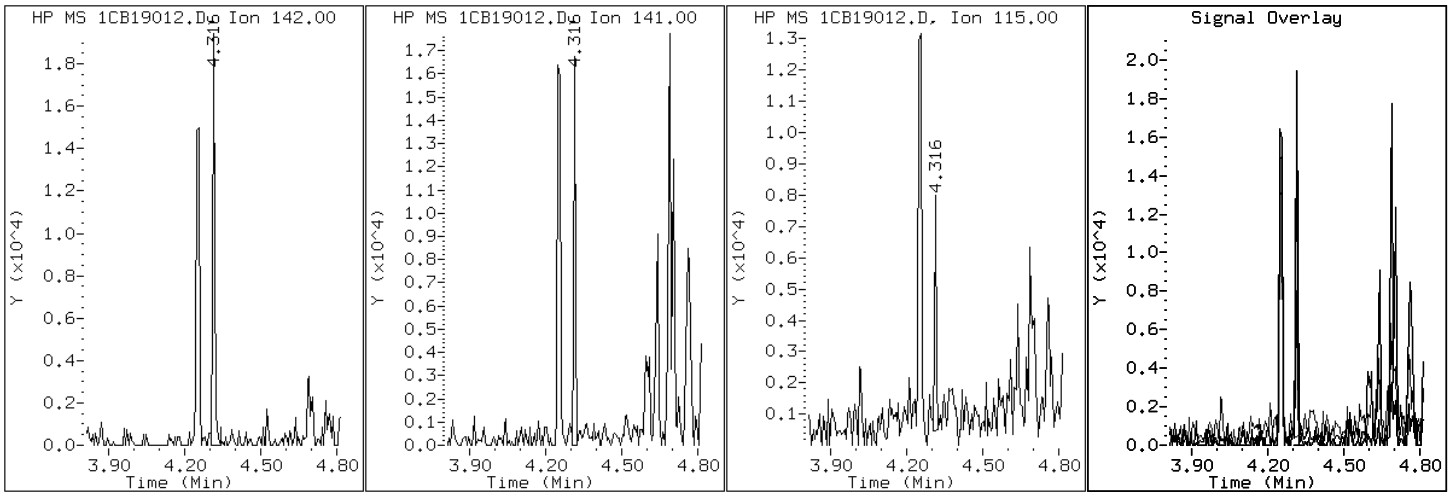
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

4 1-Methylnaphthalene



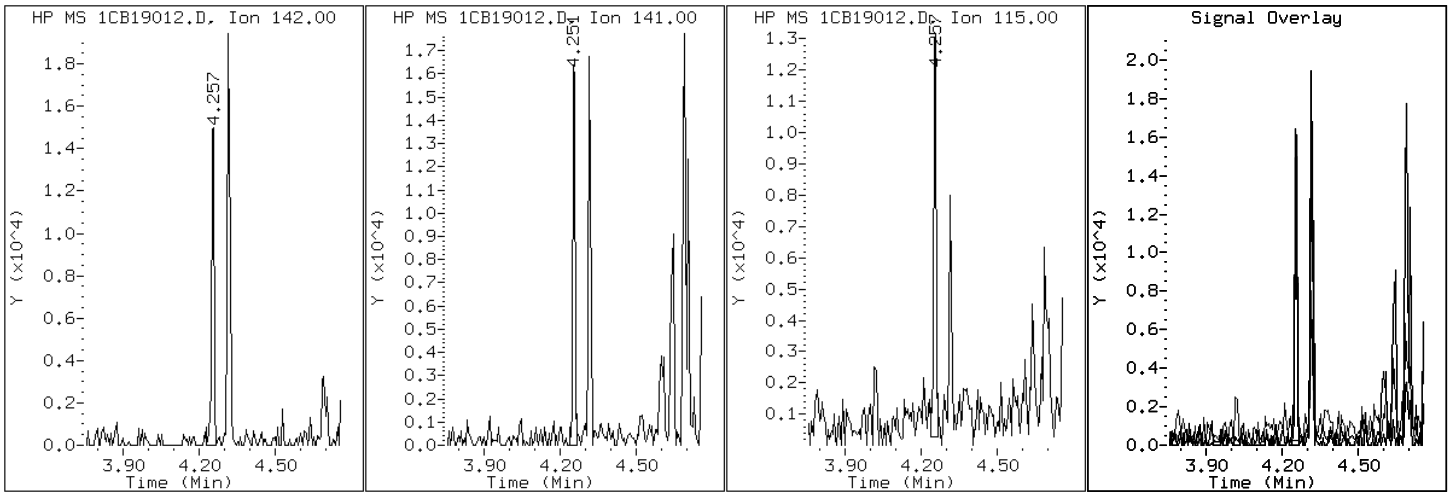
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

3 2-Methylnaphthalene



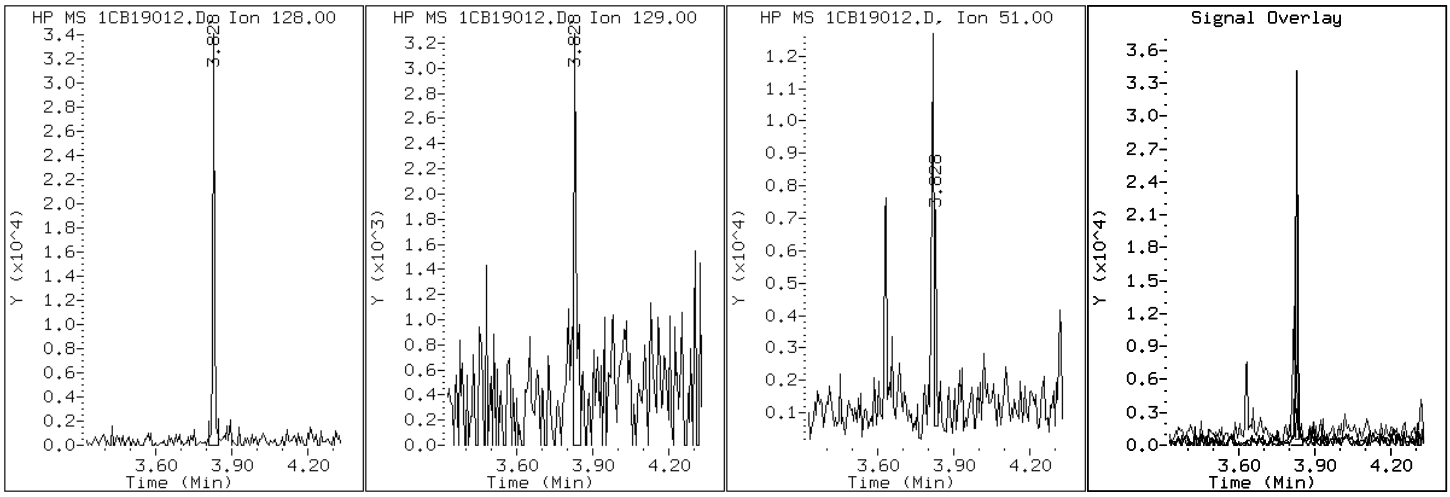
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

2 Naphthalene



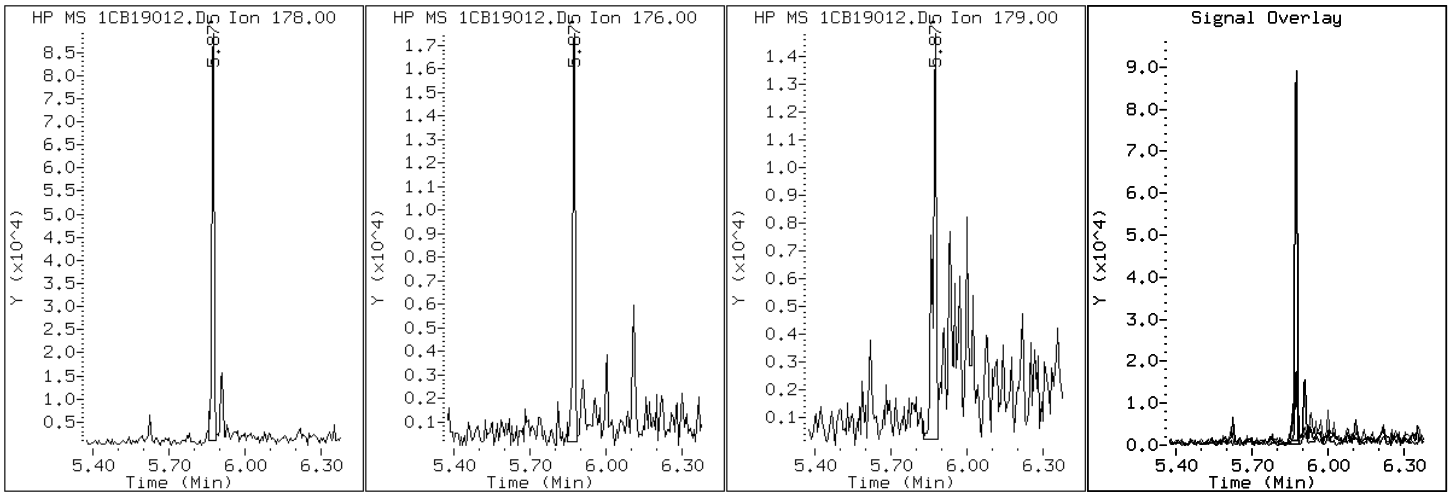
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

11 Phenanthrene



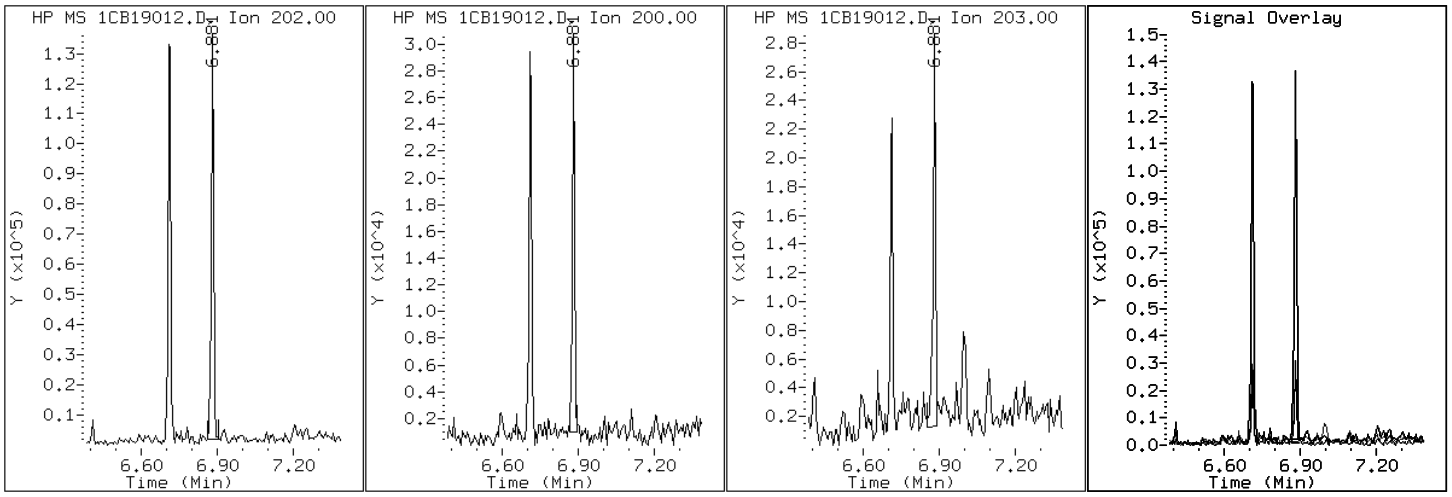
Data File: 1CB19012.D

Date: 19-FEB-2013 16:55

Client ID: CV0748QQ-CS Instrument: BSMC5973.i

Sample Info: 680-87320-a-18-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19012.D
Inj. Date and Time: 19-FEB-2013 16:55
Instrument ID: BSMC5973.i
Client ID: CV0748QQ-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

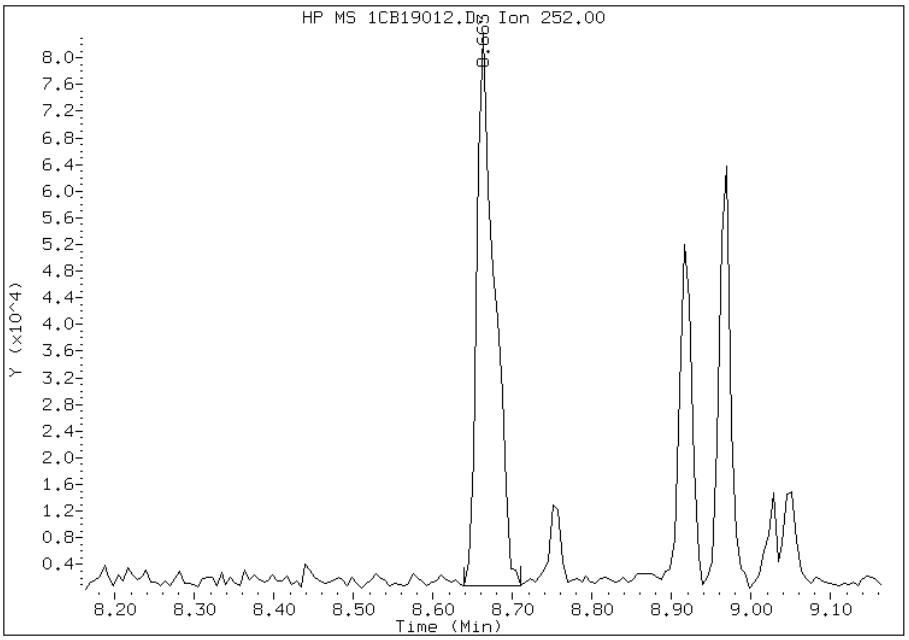
Processing Integration Results

RT: 8.66

Response: 128875

Amount: 2

Conc: 696



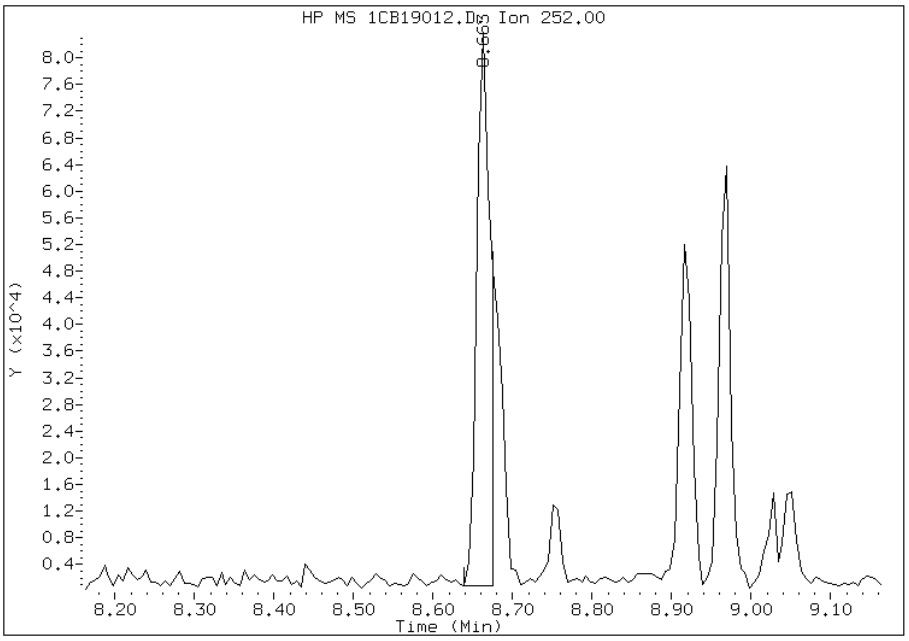
Manual Integration Results

RT: 8.66

Response: 97493

Amount: 1

Conc: 527



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:31
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19012.D
Inj. Date and Time: 19-FEB-2013 16:55
Instrument ID: BSMC5973.i
Client ID: CV0748QQ-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/20/2013

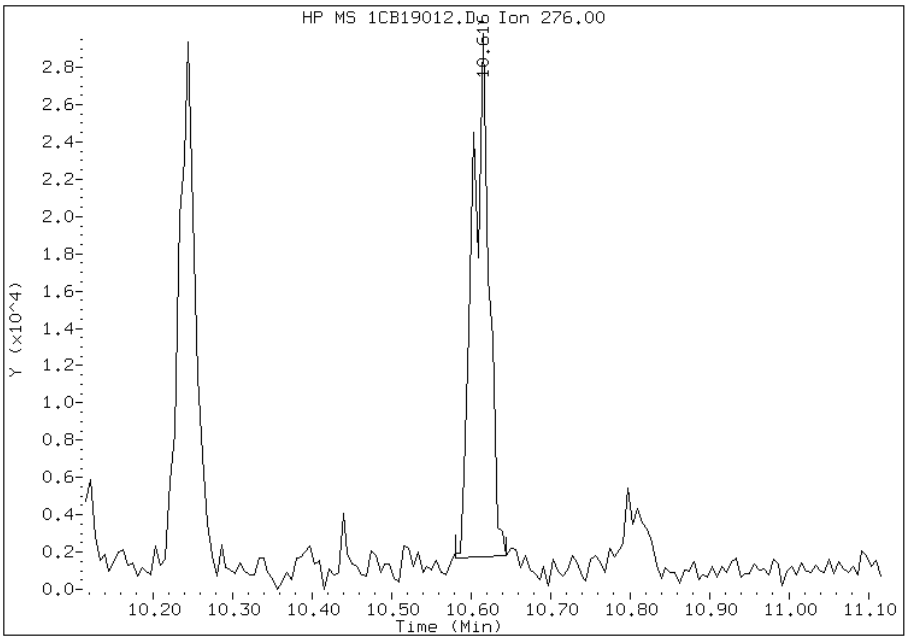
Processing Integration Results

RT: 10.62

Response: 40098

Amount: 1

Conc: 233



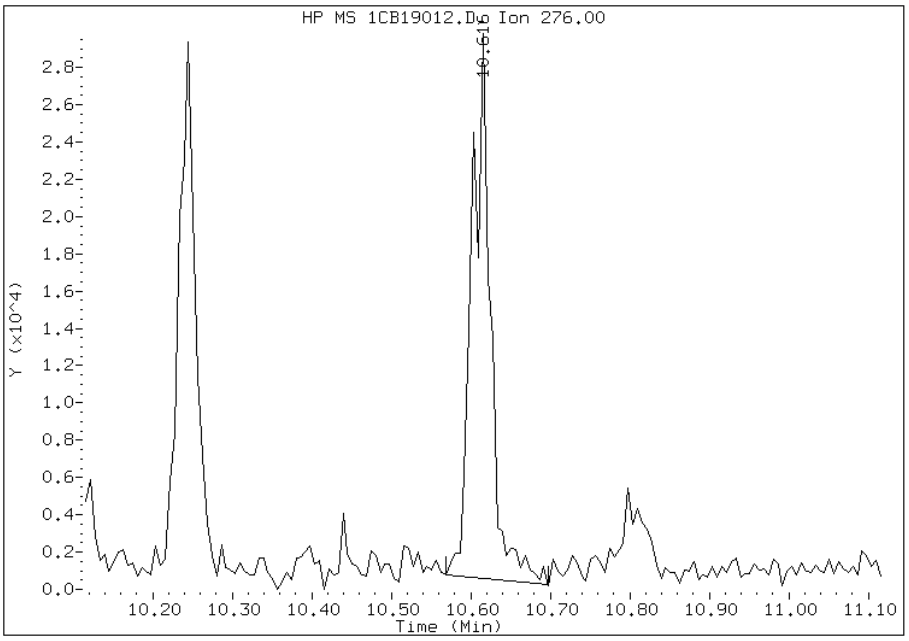
Manual Integration Results

RT: 10.62

Response: 48093

Amount: 1

Conc: 280



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19012.D
Inj. Date and Time: 19-FEB-2013 16:55
Instrument ID: BSMC5973.i
Client ID: CV0748QQ-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

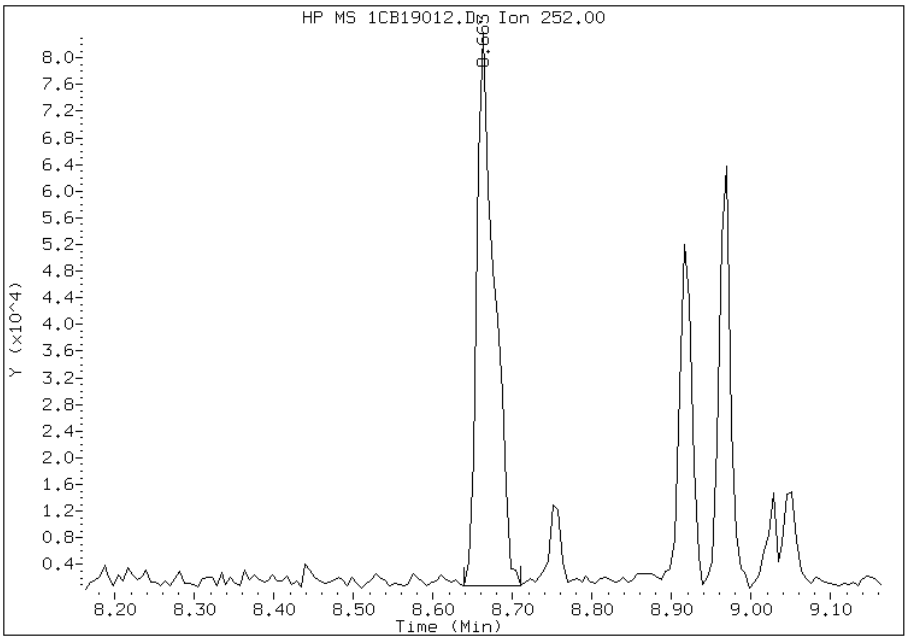
Processing Integration Results

RT: 8.66

Response: 128657

Amount: 2

Conc: 631



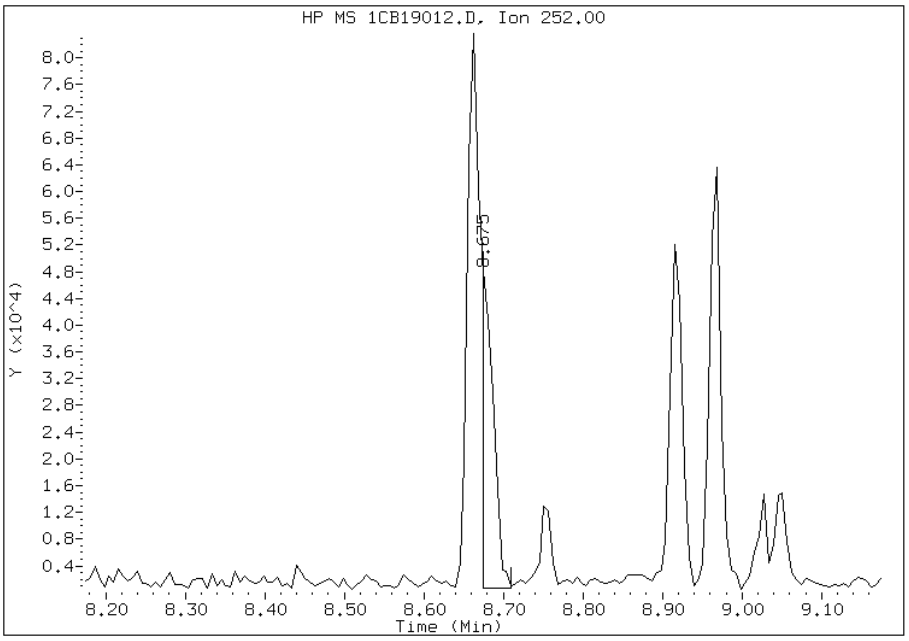
Manual Integration Results

RT: 8.67

Response: 48496

Amount: 1

Conc: 238



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19012.D
Inj. Date and Time: 19-FEB-2013 16:55
Instrument ID: BSMC5973.i
Client ID: CV0748QQ-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/20/2013

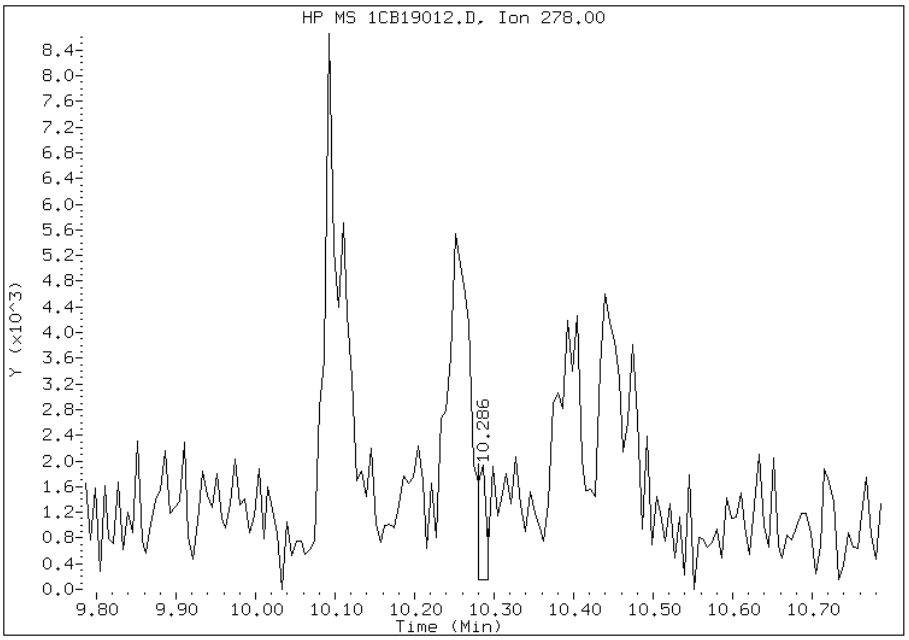
Processing Integration Results

RT: 10.29

Response: 1343

Amount: 0

Conc: 8



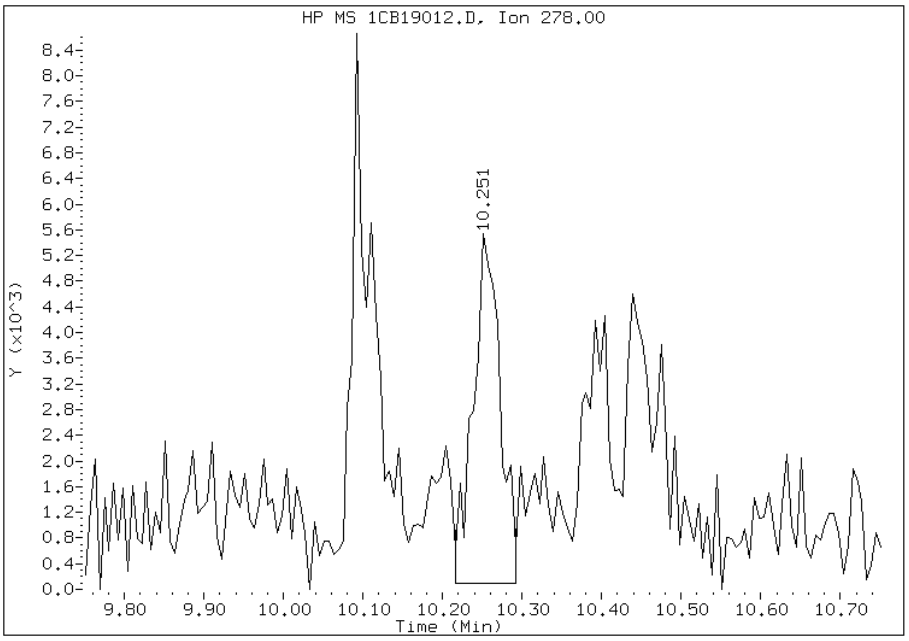
Manual Integration Results

RT: 10.25

Response: 12876

Amount: 0

Conc: 81



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19012.D
Inj. Date and Time: 19-FEB-2013 16:55
Instrument ID: BSMC5973.i
Client ID: CV0748QQ-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

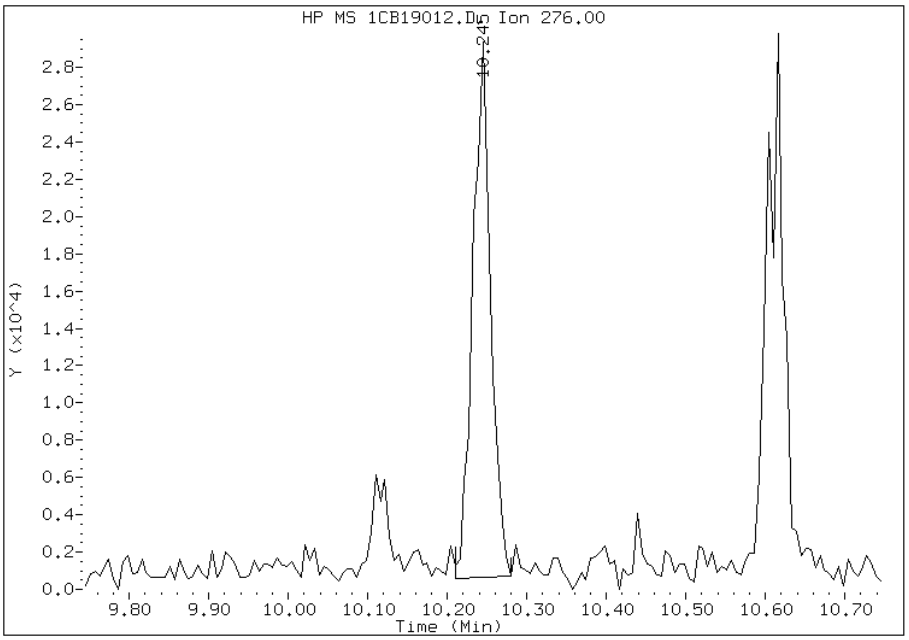
Processing Integration Results

RT: 10.25

Response: 44531

Amount: 1

Conc: 263



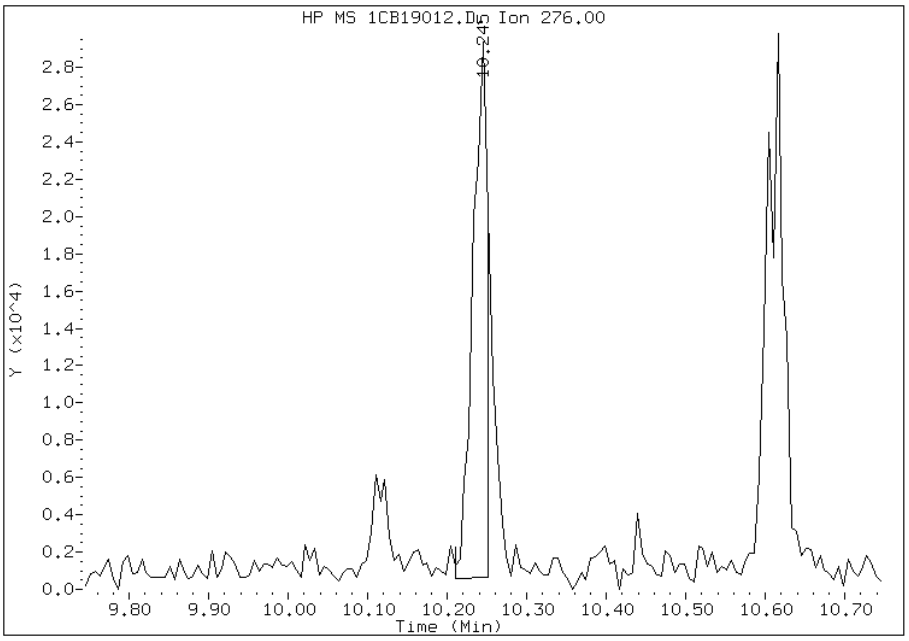
Manual Integration Results

RT: 10.25

Response: 36994

Amount: 1

Conc: 219



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748AC-GS | Lab Sample ID: 680-87320-19

Matrix: Solid | Lab File ID: 1CB19013.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 10:14

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

Sample wt/vol: 15.15(g) | Date Analyzed: 02/19/2013 17:13

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

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

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

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	590	U	590	120
208-96-8	Acenaphthylene	68	J	240	29
120-12-7	Anthracene	88		49	25
56-55-3	Benzo[a]anthracene	460		47	23
50-32-8	Benzo[a]pyrene	430		61	31
205-99-2	Benzo[b]fluoranthene	770		72	36
191-24-2	Benzo[g,h,i]perylene	420		120	26
207-08-9	Benzo[k]fluoranthene	320		47	21
218-01-9	Chrysene	540		53	27
53-70-3	Dibenz(a,h)anthracene	110	J	120	24
206-44-0	Fluoranthene	690		120	24
86-73-7	Fluorene	34	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	300		120	42
90-12-0	1-Methylnaphthalene	240		240	26
91-57-6	2-Methylnaphthalene	260		240	42
91-20-3	Naphthalene	270		240	26
85-01-8	Phenanthrene	450		47	23
129-00-0	Pyrene	630		120	22

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\1C021913.b\1CB19013.D
Lab Smp Id: 680-87320-A-19-A Client Smp ID: CV0748AC-GS
Inj Date : 19-FEB-2013 17:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-19-a
Misc Info : 680-87320-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 13
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	32.786	% 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)	2123032	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1651921	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2958833	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	78358	1.80741	709.9837
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	3087115	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2857461	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	38553	0.68529	269.1956
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	24421	0.66760	262.2468
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	20406	0.61336	240.9398
5 Acenaphthylene	152	4.816	4.816	(0.982)	11308	0.17206	67.5890
9 Fluorene	166	5.245	5.245	(1.070)	4515	0.08533	33.5200(Q)
11 Phenanthrene	178	5.874	5.874	(1.003)	100919	1.14266	448.8578
12 Anthracene	178	5.904	5.910	(1.008)	17836	0.22415	88.0488
13 Carbazole	167	6.010	6.015	(1.026)	13486	0.19511	76.6442

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)	150991	1.74960	687.2752
16 Pyrene	202	6.880	6.886	(0.882)	131229	1.59672	627.2201
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	99441	1.16809	458.8452
19 Chrysene	228	7.821	7.827	(1.002)	120722	1.37284	539.2736
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	137394	1.96121	770.3988(M)
21 Benzo(k)fluoranthene	252	8.674	8.686	(0.961)	62441	0.80905	317.8093(QM)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	72834	1.09259	429.1880
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.251	(1.135)	48150	0.75202	295.4078(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.268	(1.136)	16770	0.27775	109.1035
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.176)	69177	1.06362	417.8102(M)

QC Flag Legend

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

Data File: 1CB19013.D

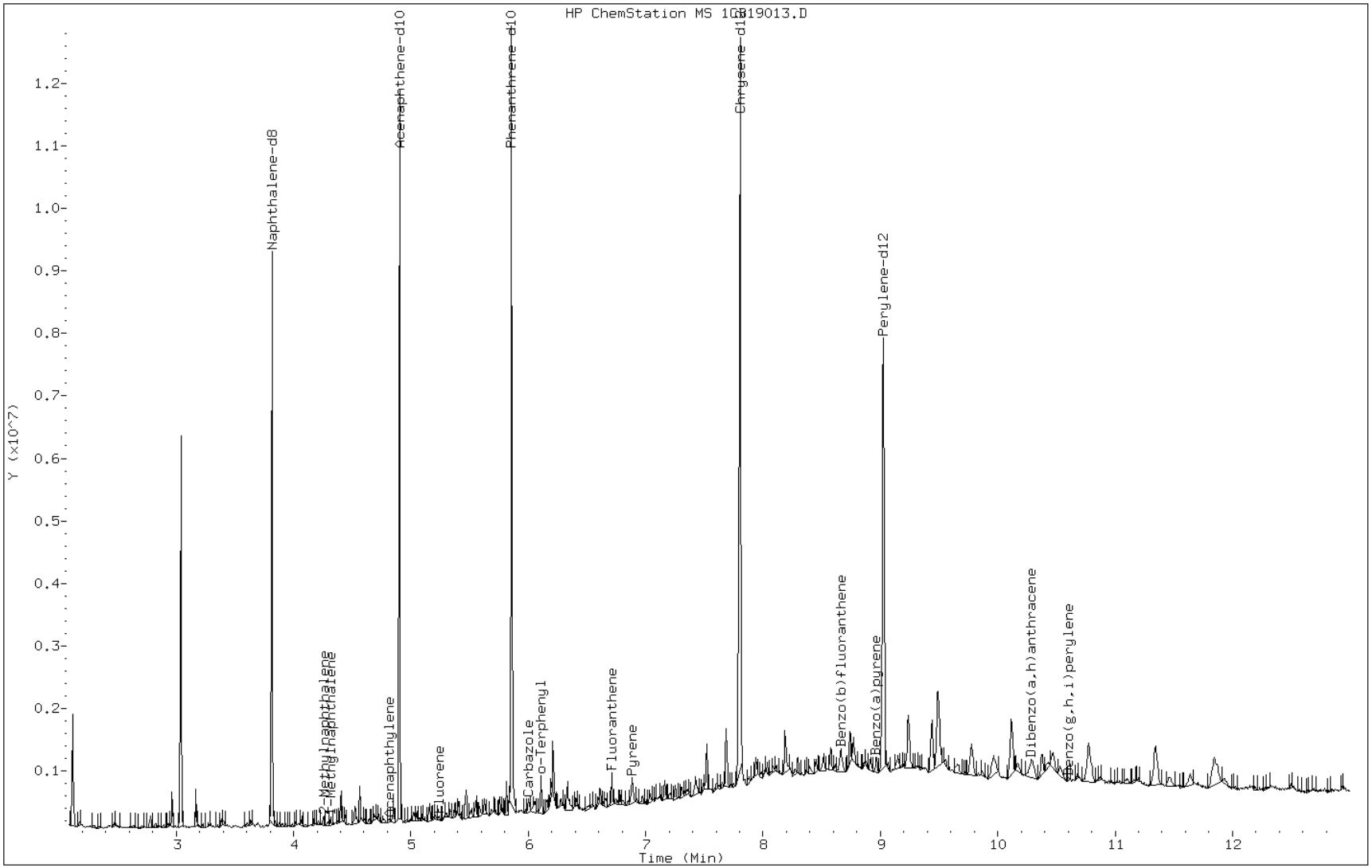
Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a

Operator: SCC



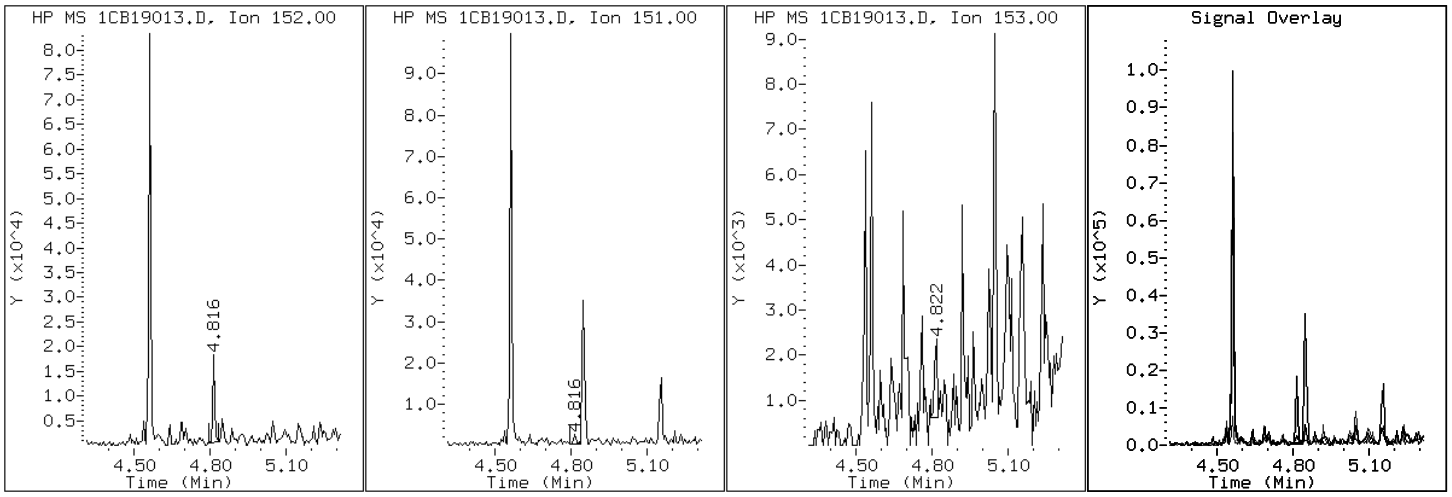
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a Operator: SCC

5 Acenaphthylene



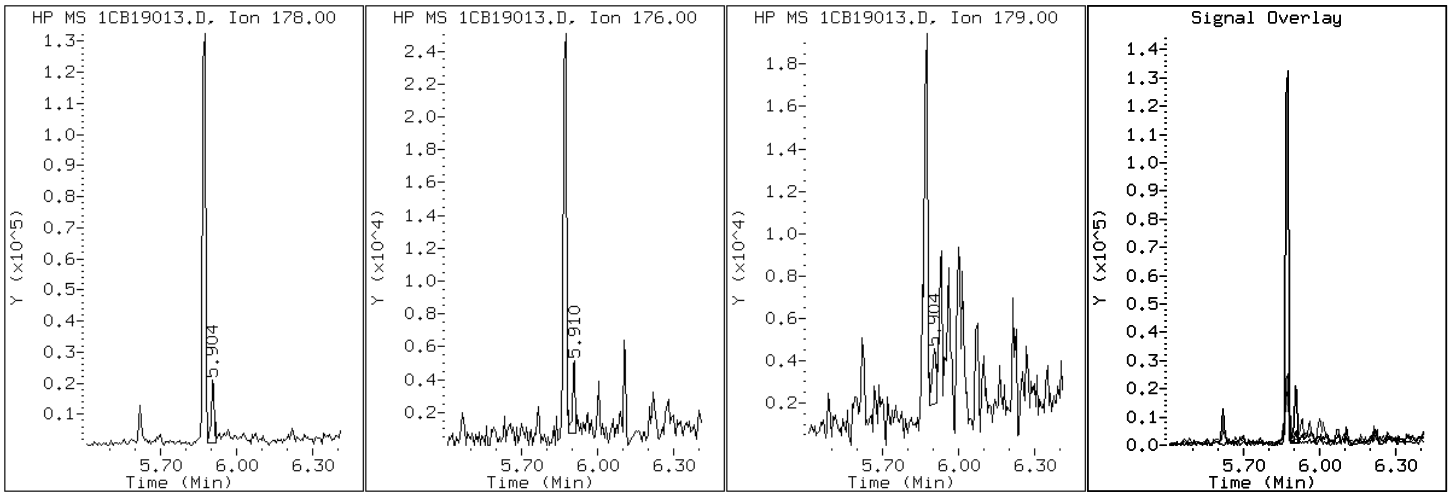
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a | Operator: SCC

12 Anthracene



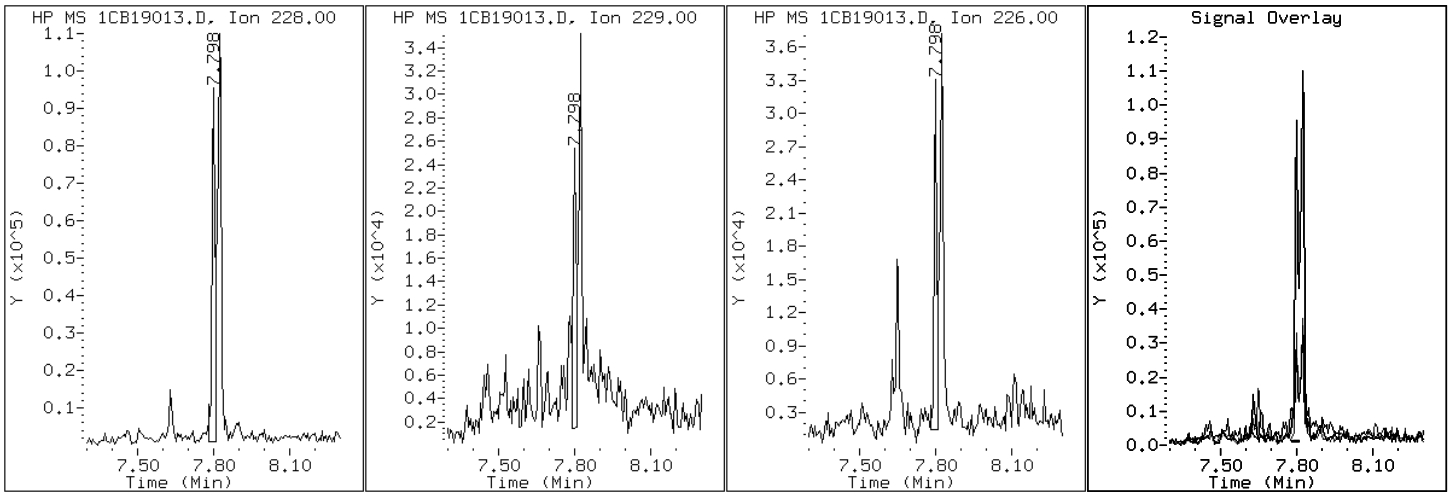
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a Operator: SCC

17 Benzo(a)anthracene



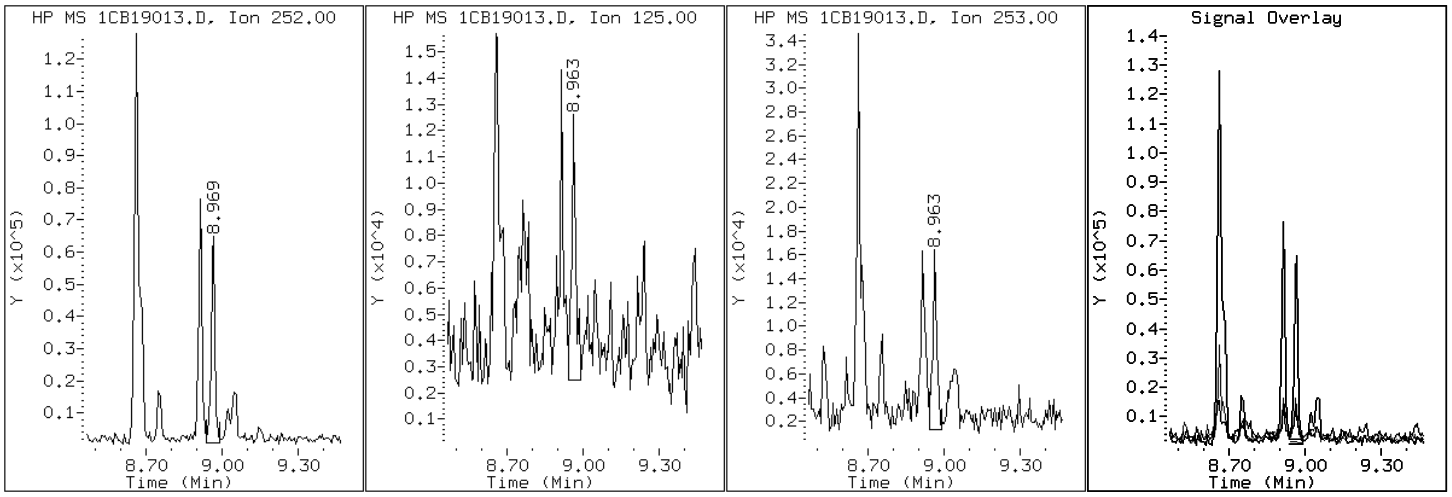
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a Operator: SCC

22 Benzo(a)pyrene



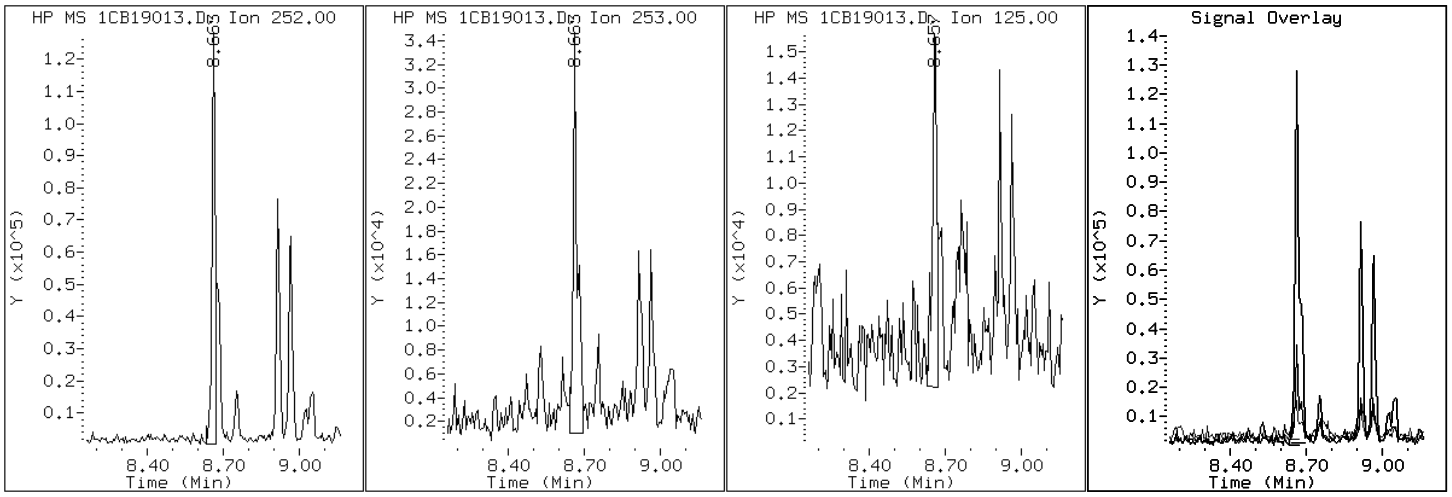
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a | Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

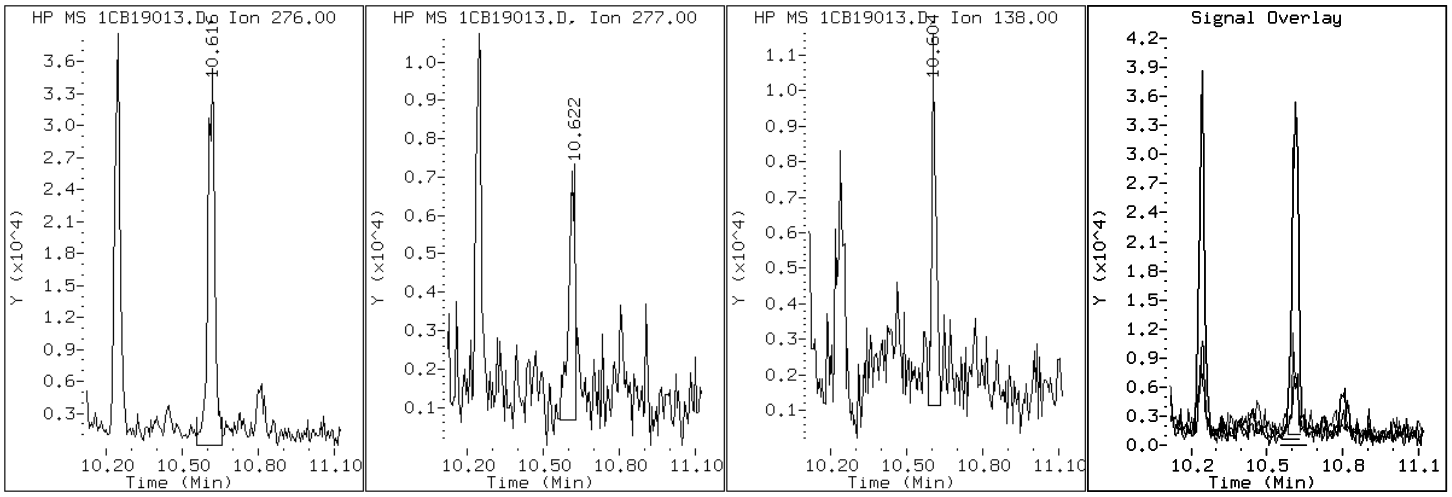
Client ID: CV0748AC-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a

Operator: SCC

26 Benzo(g,h,i)perylene



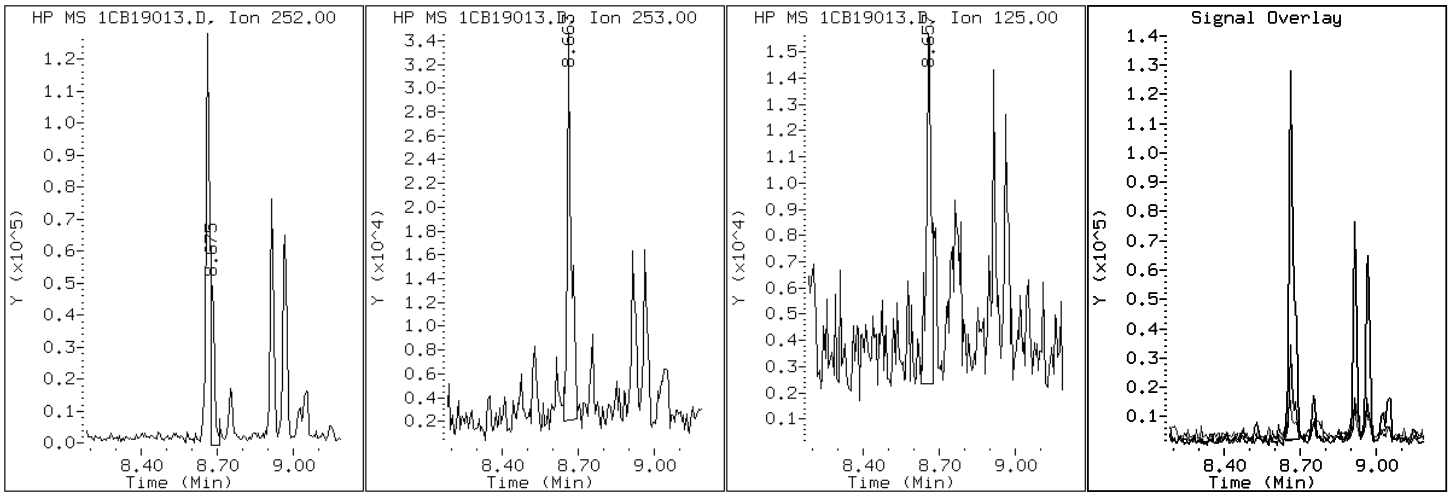
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a | Operator: SCC

21 Benzo(k)fluoranthene



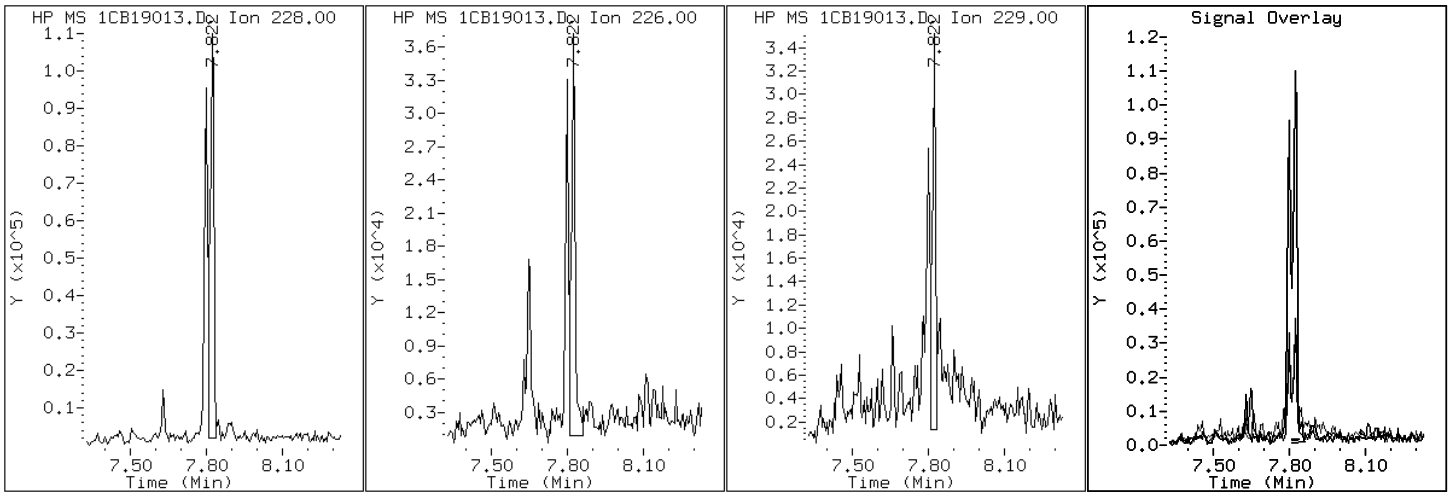
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a Operator: SCC

19 Chrysene



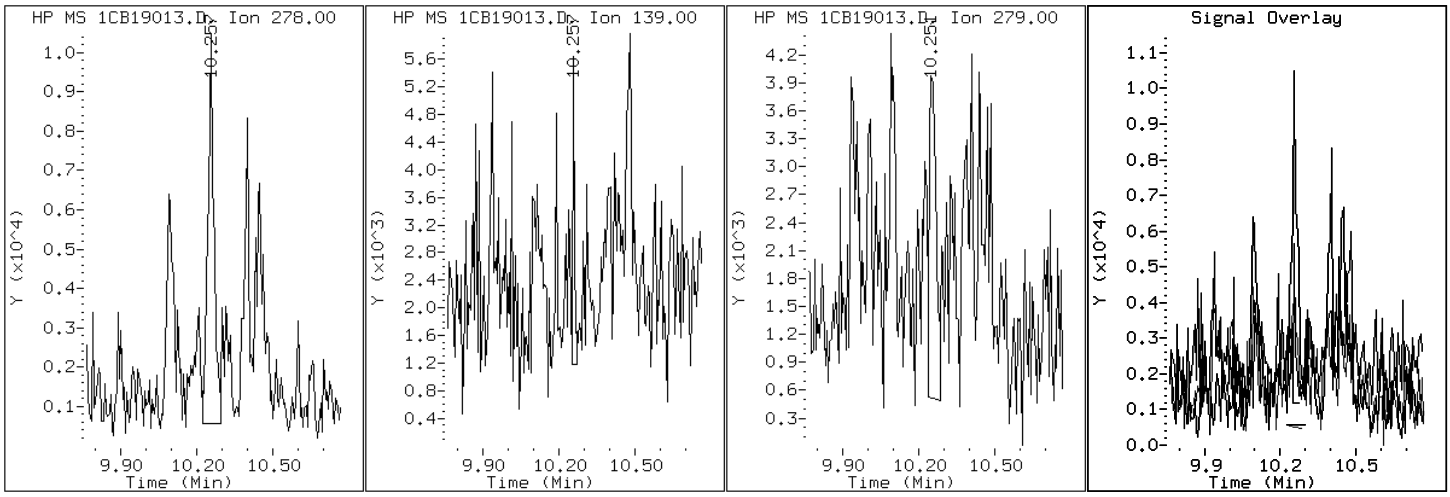
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a Operator: SCC

25 Dibenzo(a,h)anthracene



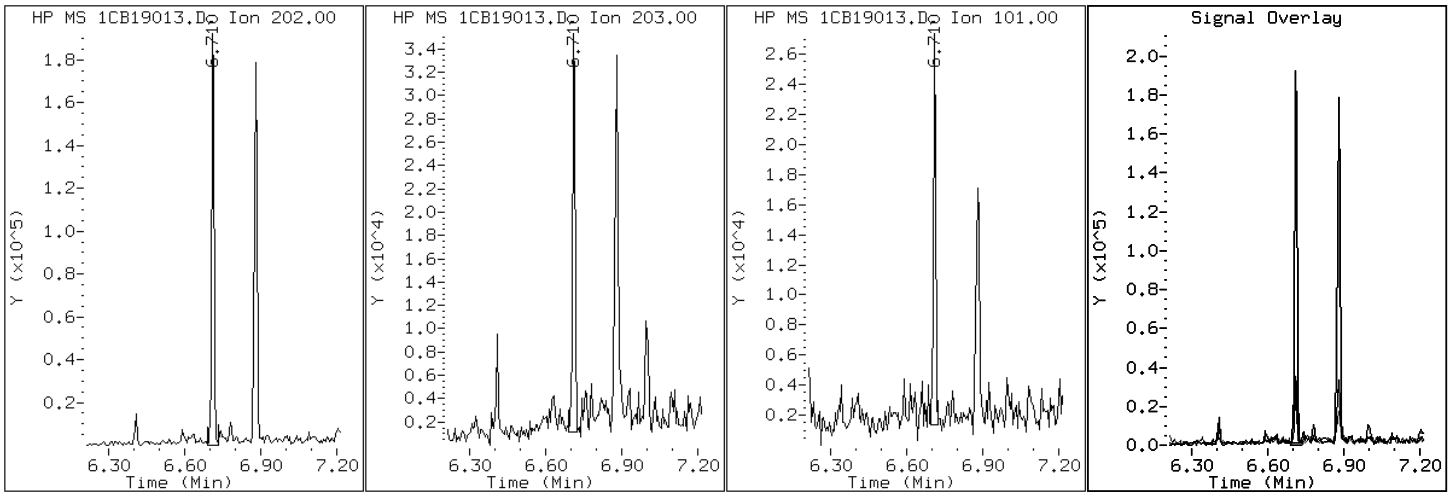
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a | Operator: SCC

15 Fluoranthene



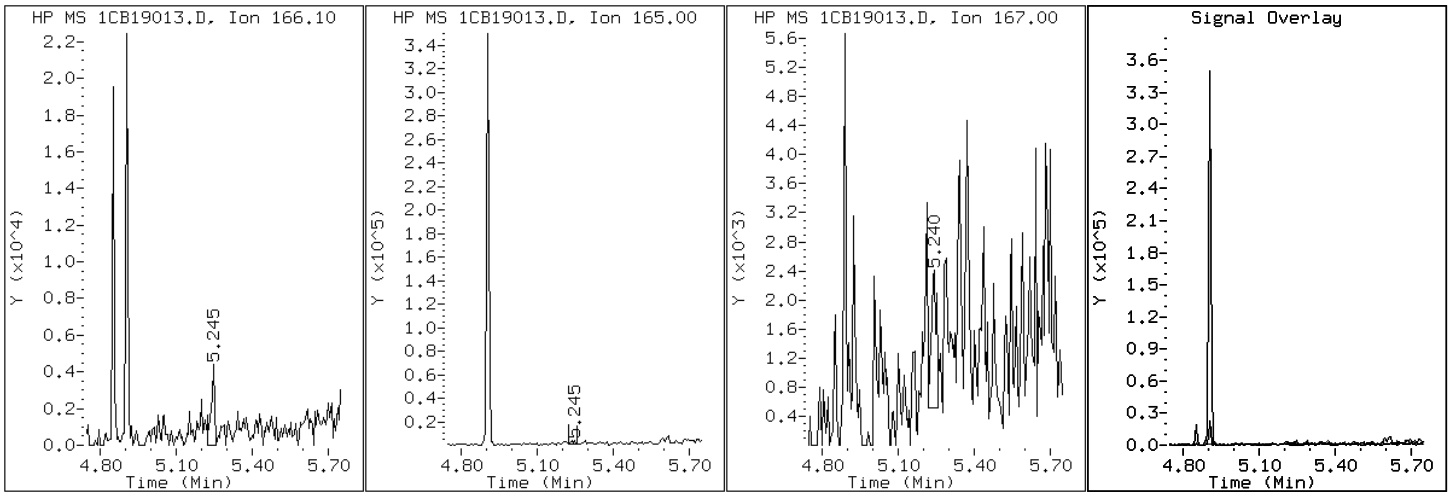
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a Operator: SCC

9 Fluorene



Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

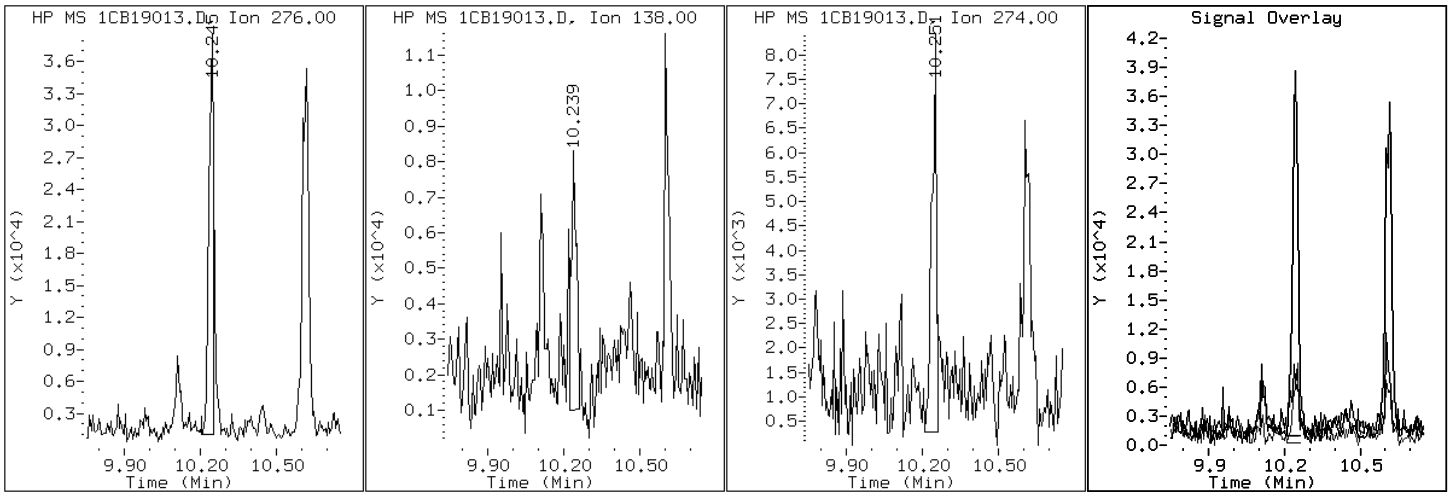
Client ID: CV0748AC-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a

Operator: SCC

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



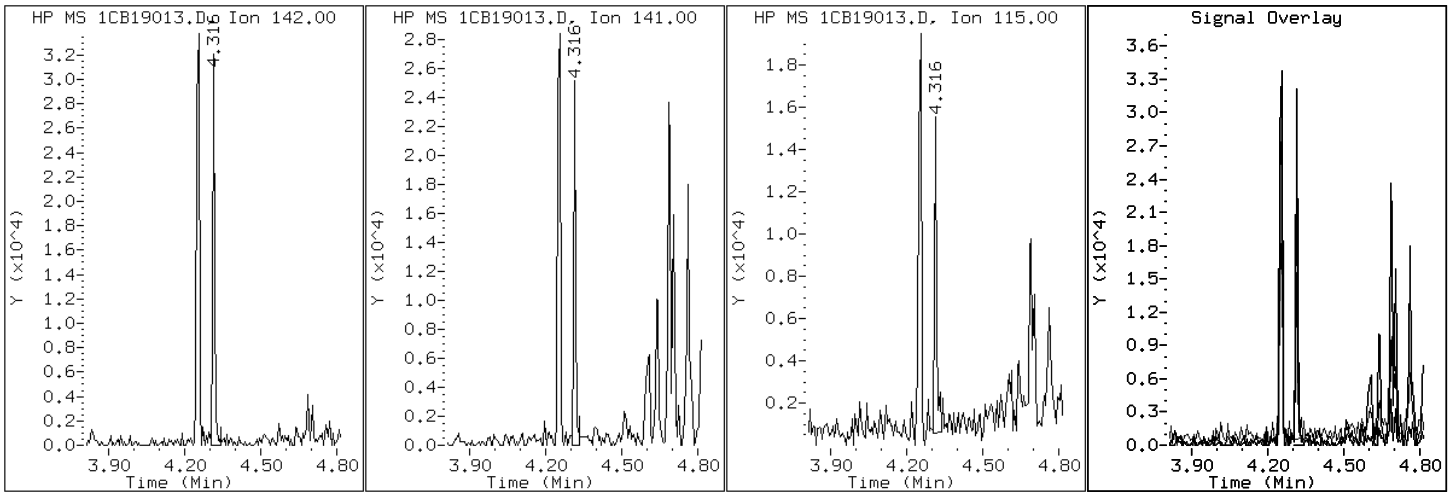
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a Operator: SCC

4 1-Methylnaphthalene



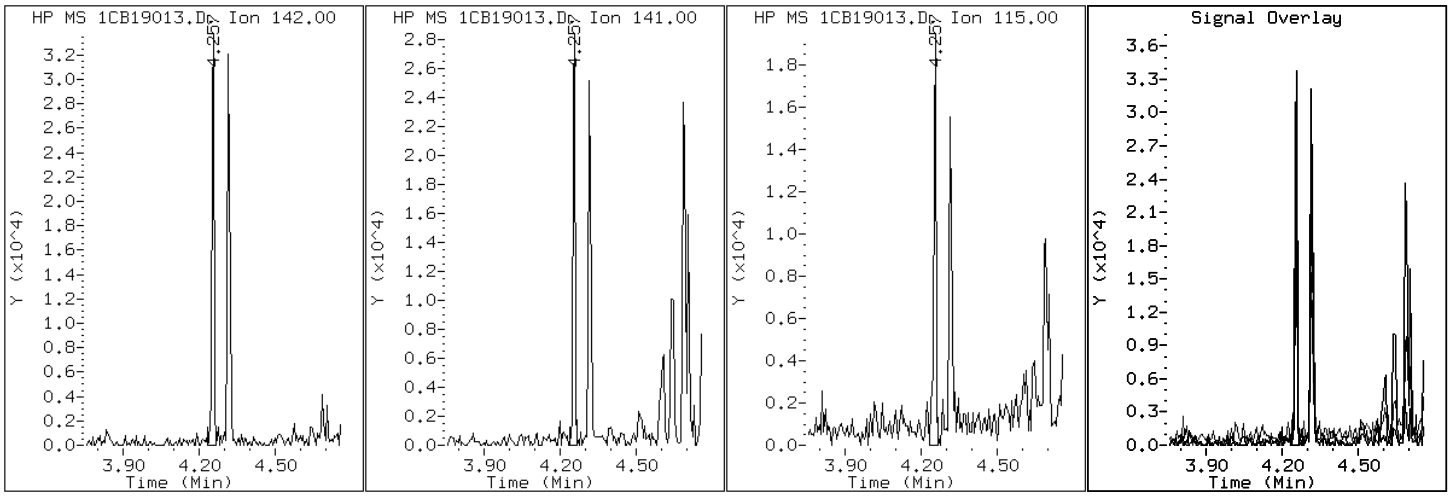
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a Operator: SCC

3 2-Methylnaphthalene



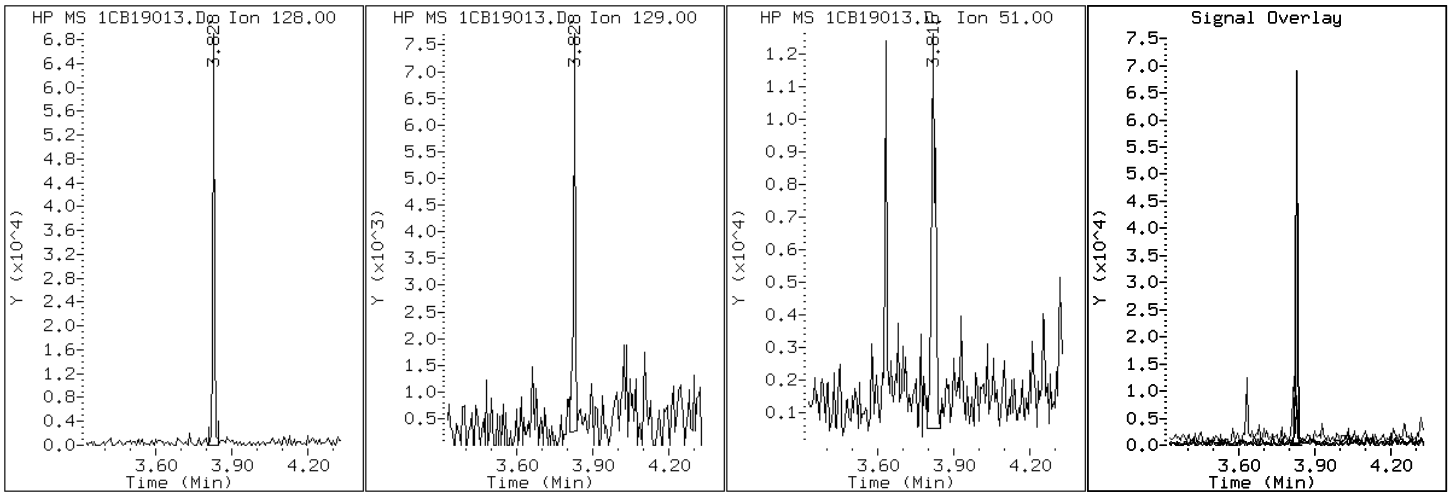
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a Operator: SCC

2 Naphthalene



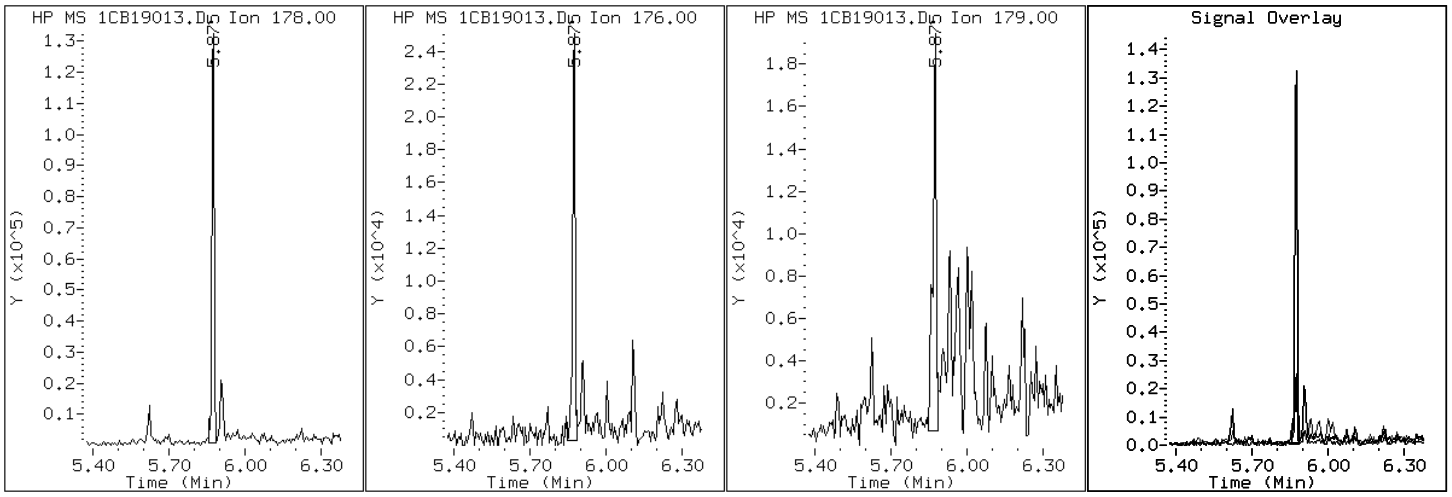
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a | Operator: SCC

11 Phenanthrene



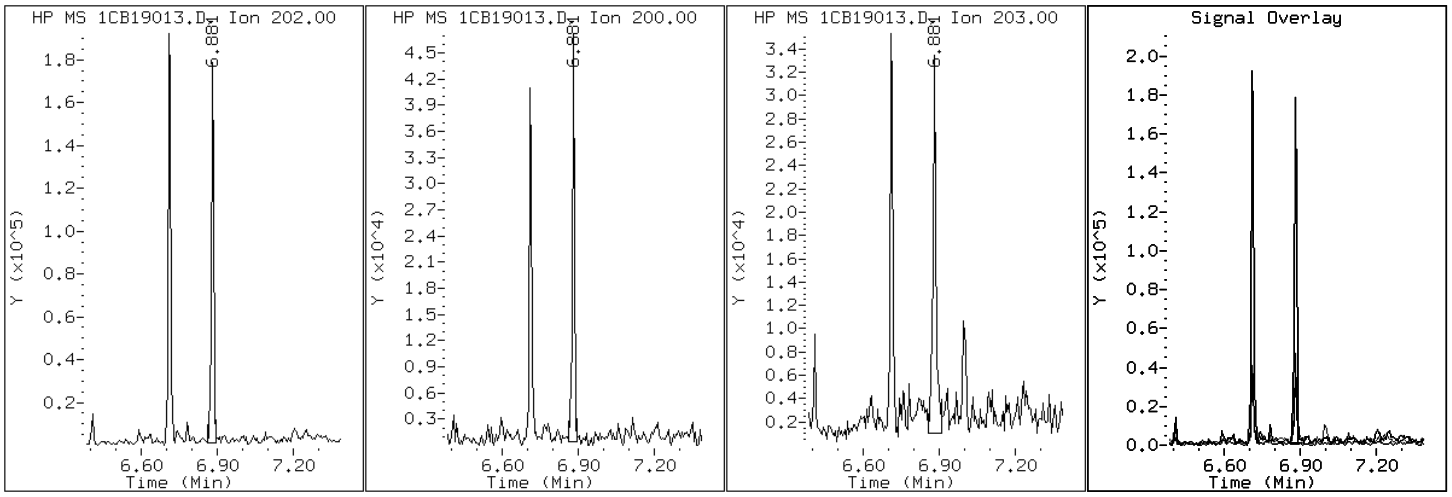
Data File: 1CB19013.D

Date: 19-FEB-2013 17:13

Client ID: CV0748AC-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-19-a | Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19013.D
Inj. Date and Time: 19-FEB-2013 17:13
Instrument ID: BSMC5973.i
Client ID: CV0748AC-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/20/2013

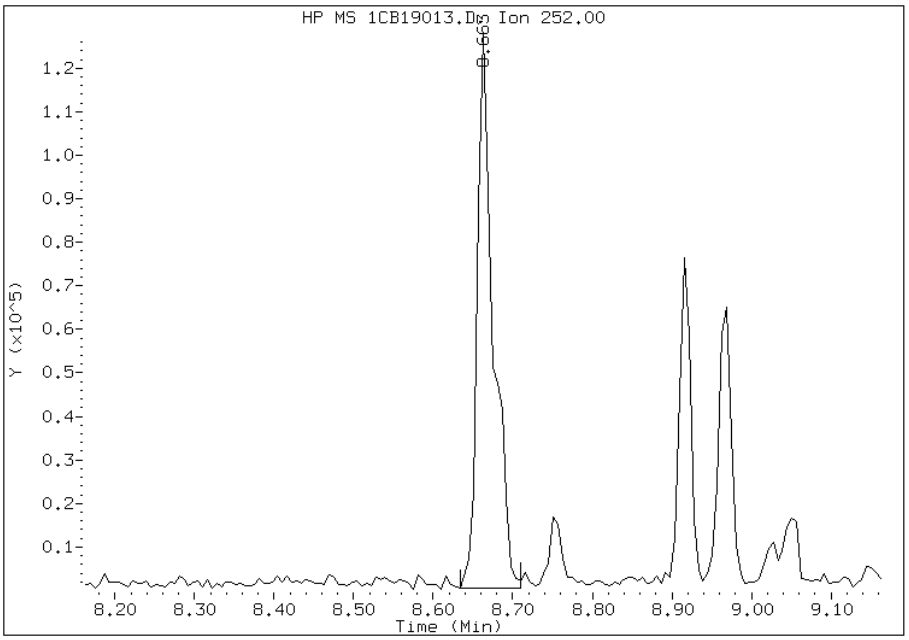
Processing Integration Results

RT: 8.66

Response: 179269

Amount: 3

Conc: 1005



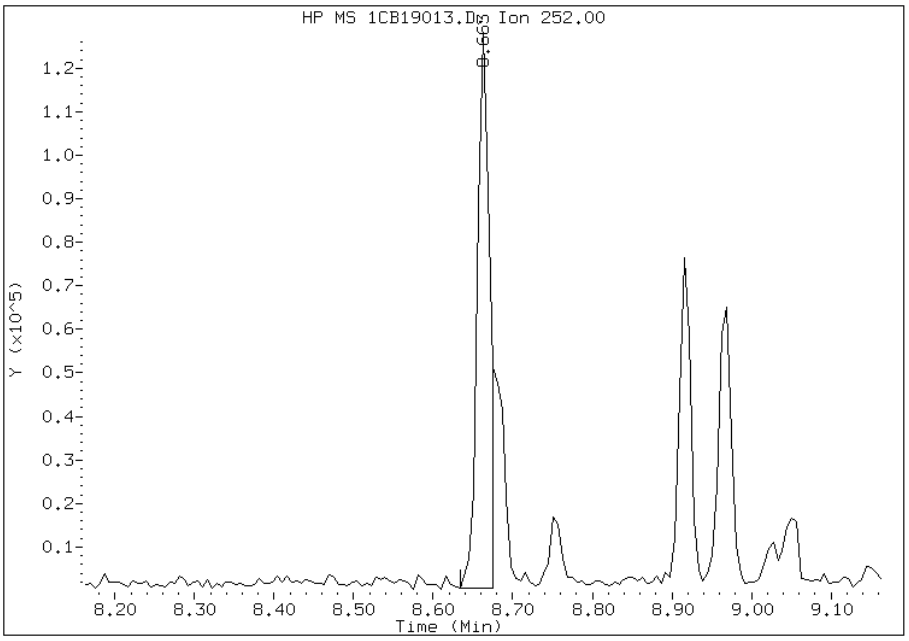
Manual Integration Results

RT: 8.66

Response: 137394

Amount: 2

Conc: 770



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB19013.D
Inj. Date and Time: 19-FEB-2013 17:13
Instrument ID: BSMC5973.i
Client ID: CV0748AC-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/20/2013

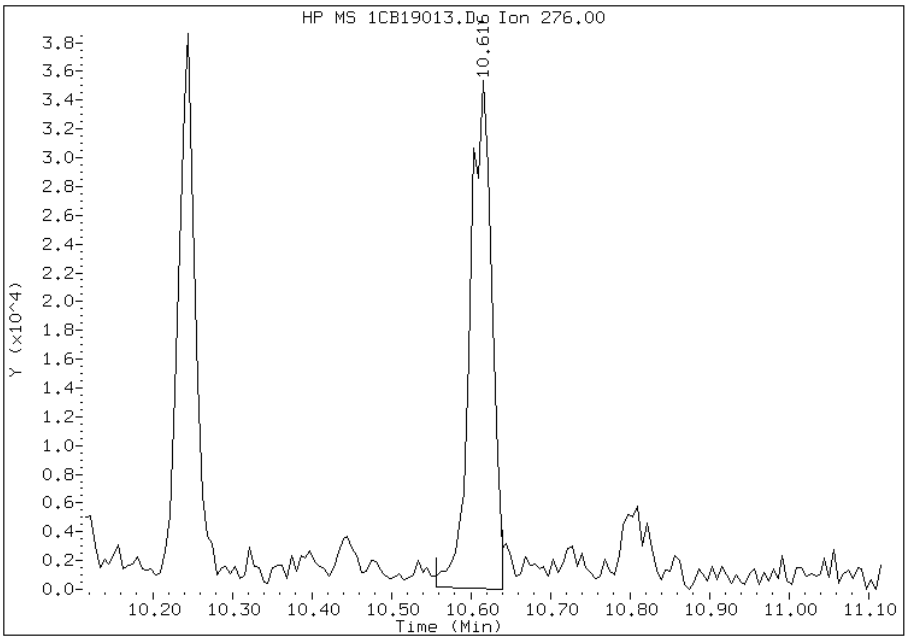
Processing Integration Results

RT: 10.62

Response: 66782

Amount: 1

Conc: 403



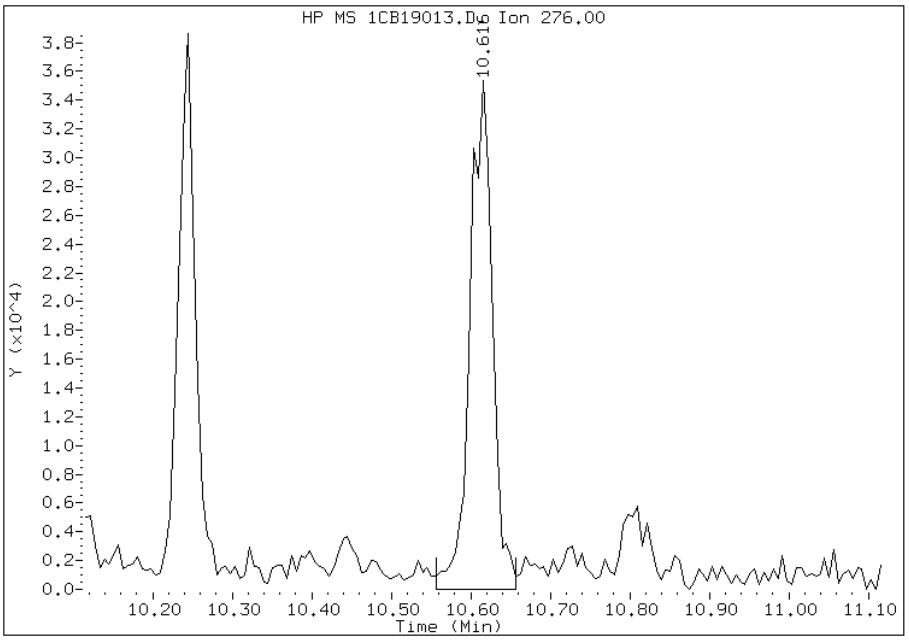
Manual Integration Results

RT: 10.62

Response: 69177

Amount: 1

Conc: 418



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19013.D
Inj. Date and Time: 19-FEB-2013 17:13
Instrument ID: BSMC5973.i
Client ID: CV0748AC-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/20/2013

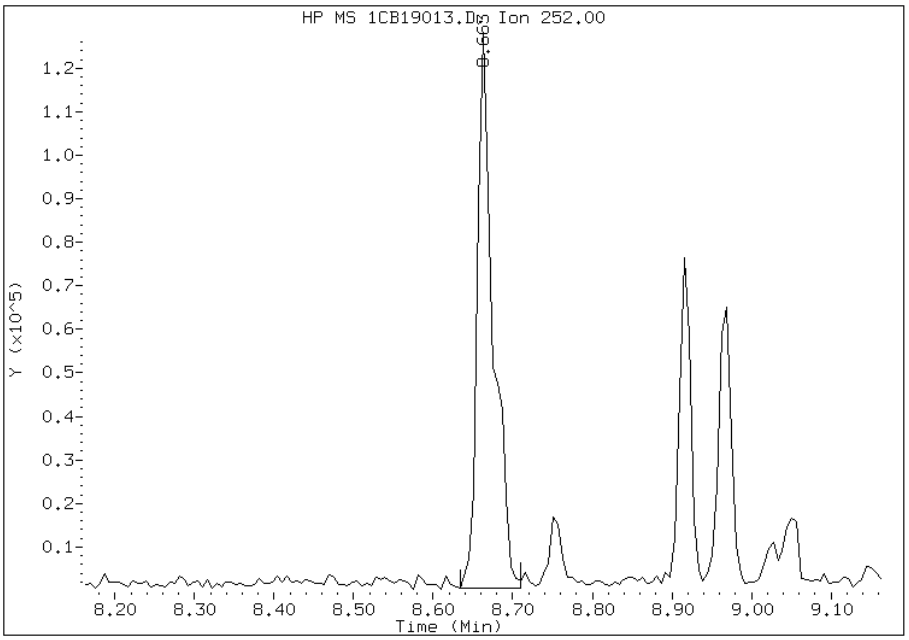
Processing Integration Results

RT: 8.66

Response: 179269

Amount: 2

Conc: 912



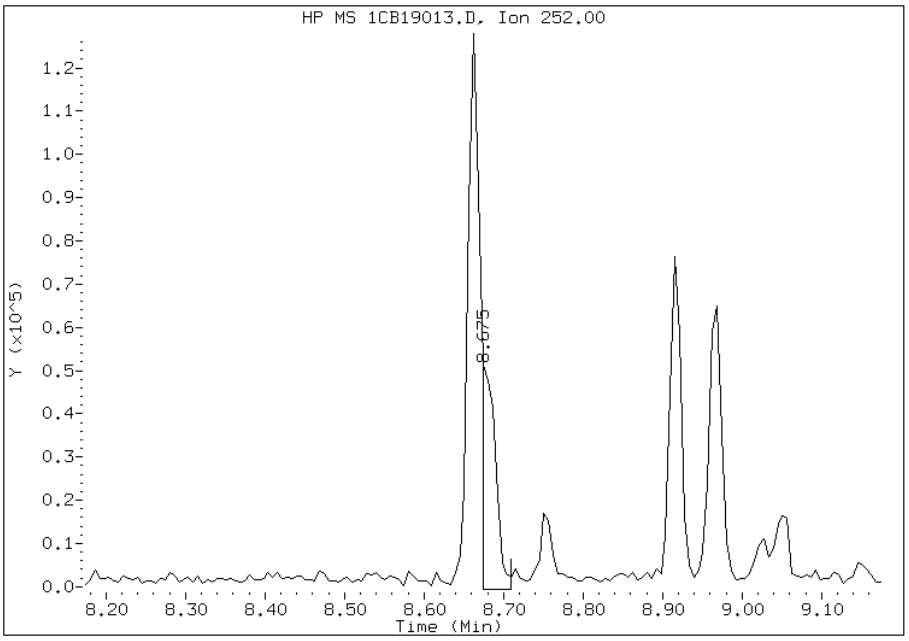
Manual Integration Results

RT: 8.67

Response: 62441

Amount: 1

Conc: 318



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB19013.D
Inj. Date and Time: 19-FEB-2013 17:13
Instrument ID: BSMC5973.i
Client ID: CV0748AC-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

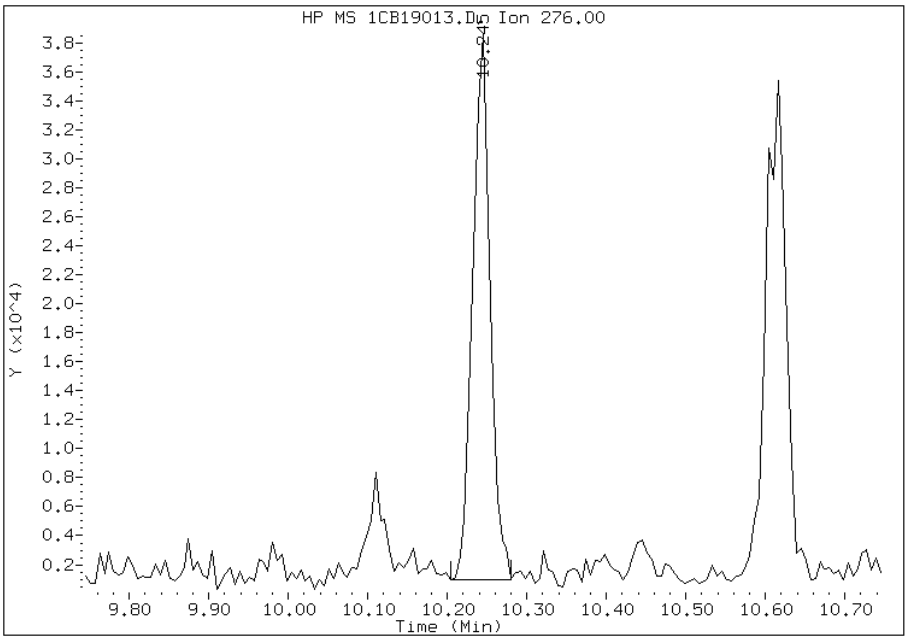
Processing Integration Results

RT: 10.25

Response: 56569

Amount: 1

Conc: 347



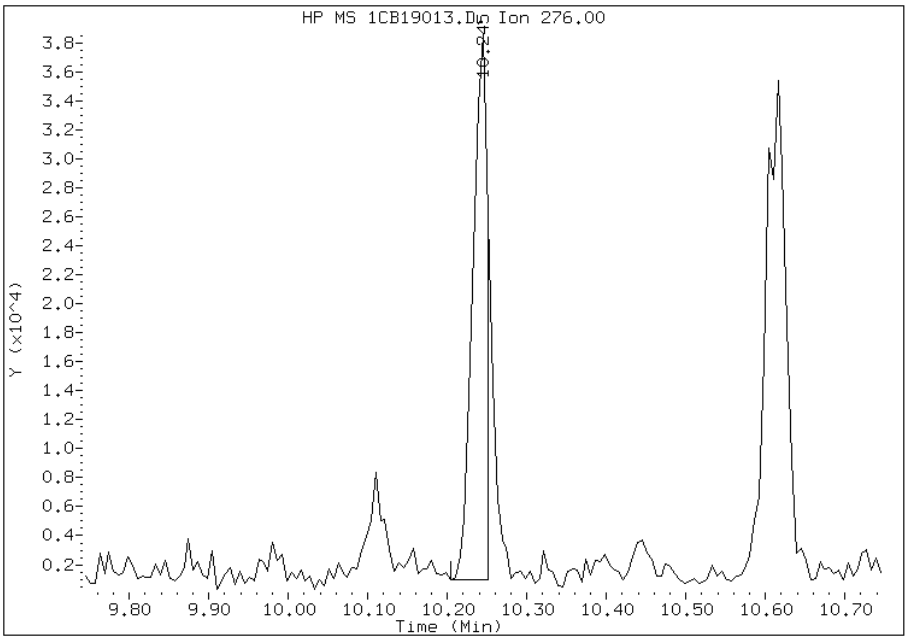
Manual Integration Results

RT: 10.25

Response: 48150

Amount: 1

Conc: 295



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: CV0748AB-GS | Lab Sample ID: 680-87320-20

Matrix: Solid | Lab File ID: 1CB19014.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:18

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

Sample wt/vol: 15.29(g) | Date Analyzed: 02/19/2013 17:31

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

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

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

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	580	U	580	120
208-96-8	Acenaphthylene	62	J	230	29
120-12-7	Anthracene	100		49	25
56-55-3	Benzo[a]anthracene	560		47	23
50-32-8	Benzo[a]pyrene	470		61	30
205-99-2	Benzo[b]fluoranthene	980		71	36
191-24-2	Benzo[g,h,i]perylene	410		120	26
207-08-9	Benzo[k]fluoranthene	260		47	21
218-01-9	Chrysene	750		53	26
53-70-3	Dibenz(a,h)anthracene	110	J	120	24
206-44-0	Fluoranthene	1000		120	23
86-73-7	Fluorene	43	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	330		120	41
90-12-0	1-Methylnaphthalene	270		230	26
91-57-6	2-Methylnaphthalene	340		230	41
91-20-3	Naphthalene	300		230	26
85-01-8	Phenanthrene	680		47	23
129-00-0	Pyrene	930		120	22

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19014.D
Lab Smp Id: 680-87320-A-20-A Client Smp ID: CV0748AB-GS
Inj Date : 19-FEB-2013 17:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-20-a
Misc Info : 680-87320-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 14
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	15.290	Weight Extracted
M	32.753	% 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)	2014346	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1588476	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2829824	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	92676	2.23513	869.5307
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2919807	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2787358	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	40627	0.76113	296.1001
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	30055	0.86595	336.8818
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	21909	0.69407	270.0146
5 Acenaphthylene	152	4.816	4.816	(0.982)	10079	0.15949	62.0452
9 Fluorene	166	5.245	5.245	(1.070)	5683	0.11170	43.4534(Q)
11 Phenanthrene	178	5.874	5.874	(1.003)	148553	1.75868	684.1793
12 Anthracene	178	5.904	5.910	(1.008)	19945	0.26208	101.9560
13 Carbazole	167	6.010	6.015	(1.026)	20946	0.31686	123.2678

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.716	6.715	(1.147)	215669	2.61299	1016.5294
16 Pyrene	202	6.880	6.886	(0.882)	185280	2.38356	927.2759
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	116440	1.44614	562.5915
19 Chrysene	228	7.821	7.827	(1.002)	159579	1.91870	746.4294
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	172322	2.52165	980.9971
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	49685	0.65996	256.7445(Q)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	78776	1.21145	471.2881
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.251	(1.135)	52461	0.83996	326.7694(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	16834	0.28582	111.1916
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	67403	1.06241	413.3098

QC Flag Legend

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

Data File: 1CB19014.D

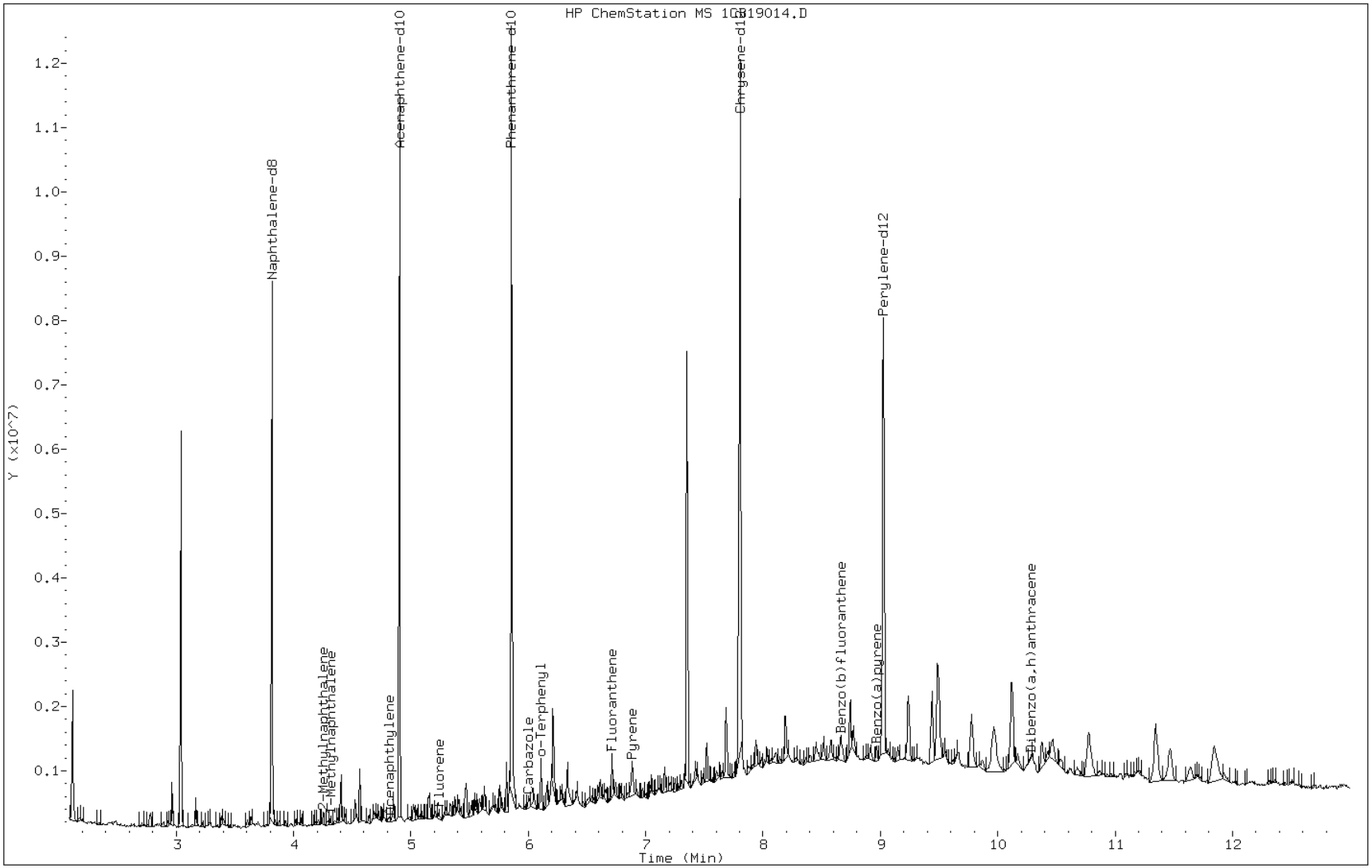
Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a

Operator: SCC



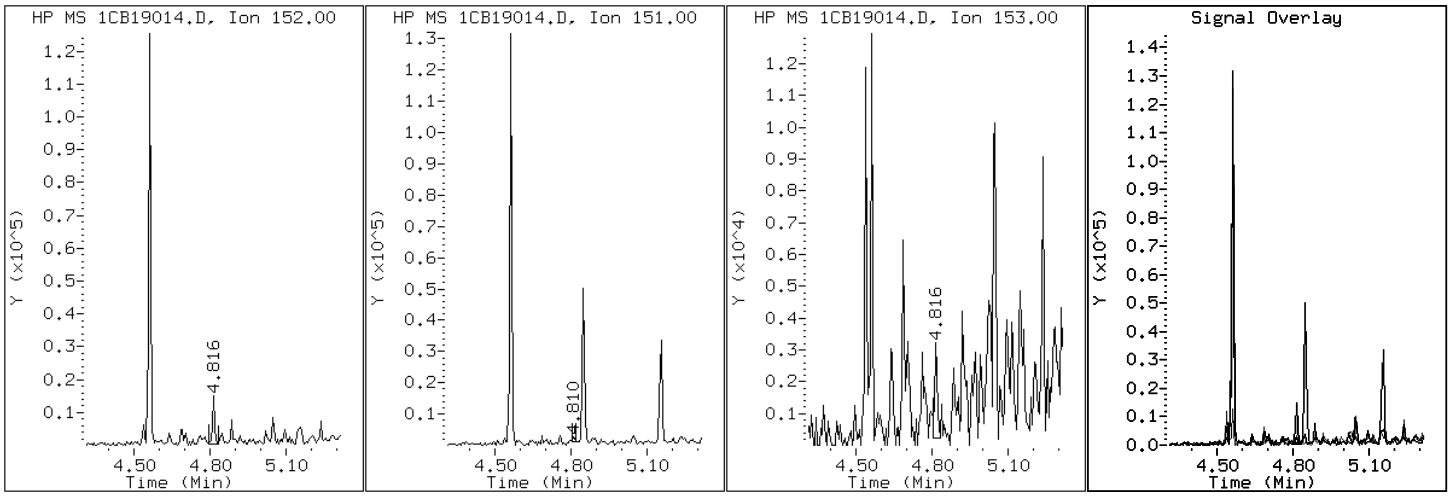
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

5 Acenaphthylene



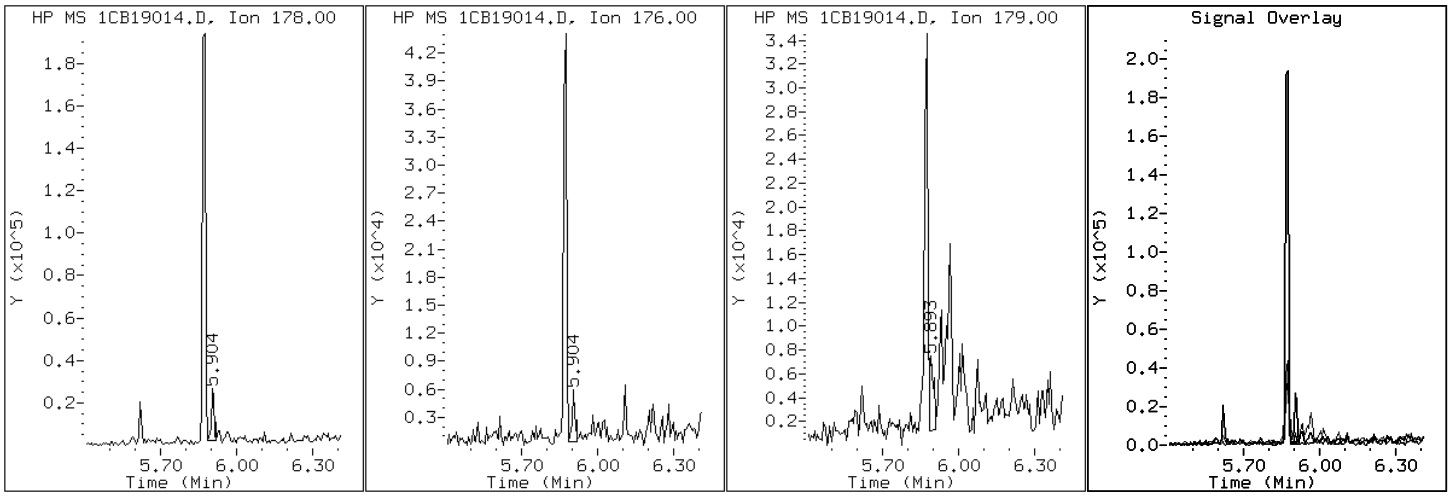
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

12 Anthracene



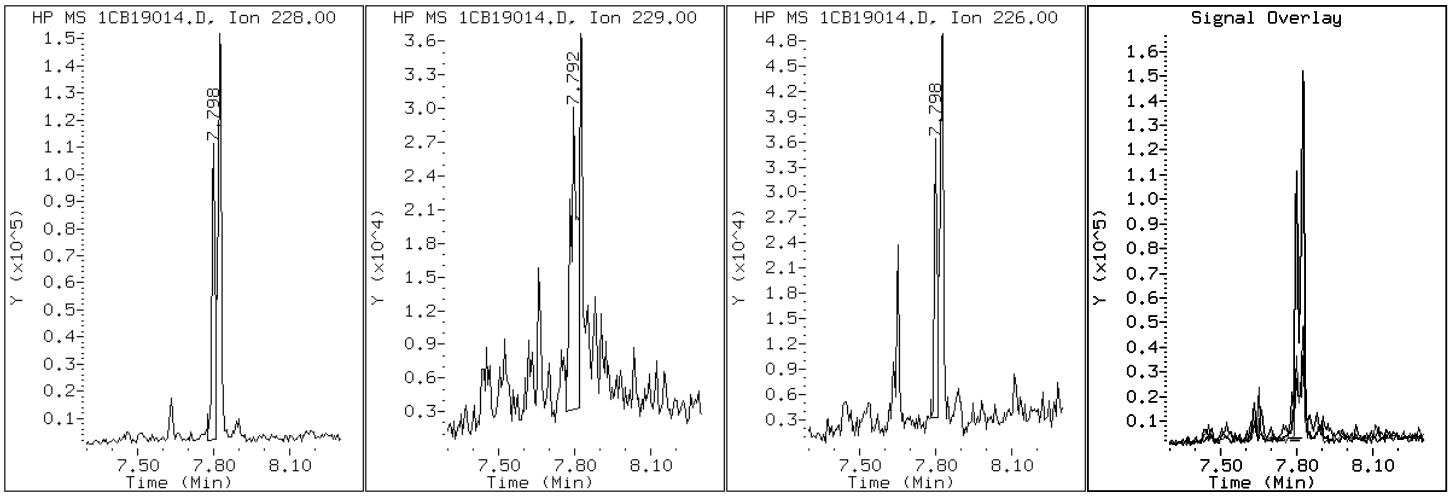
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

17 Benzo(a)anthracene



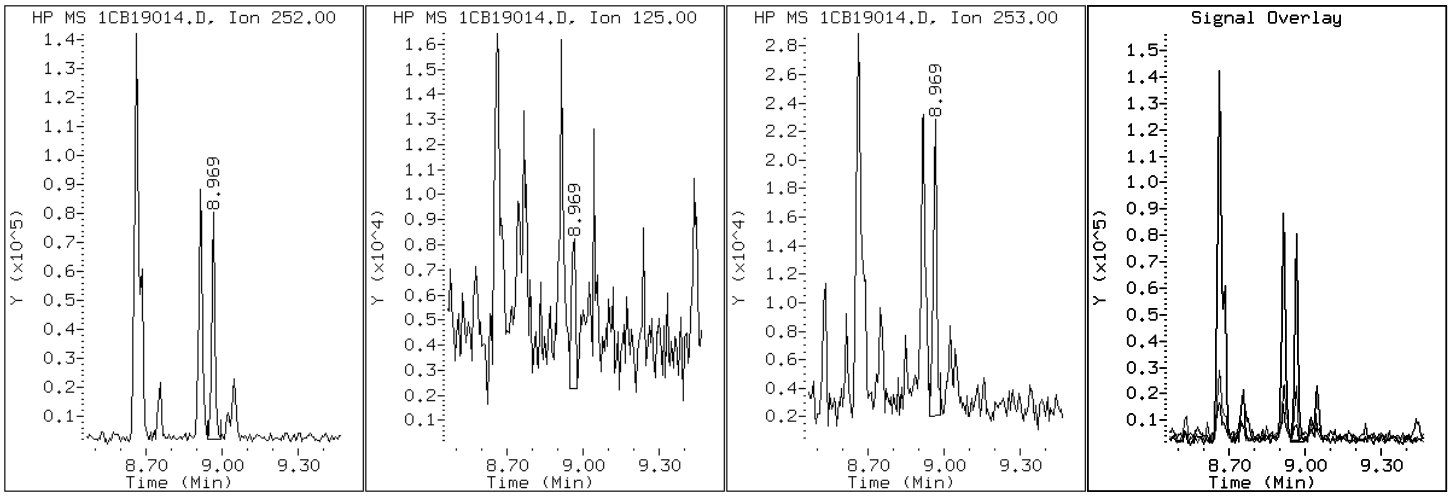
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

22 Benzo(a)pyrene



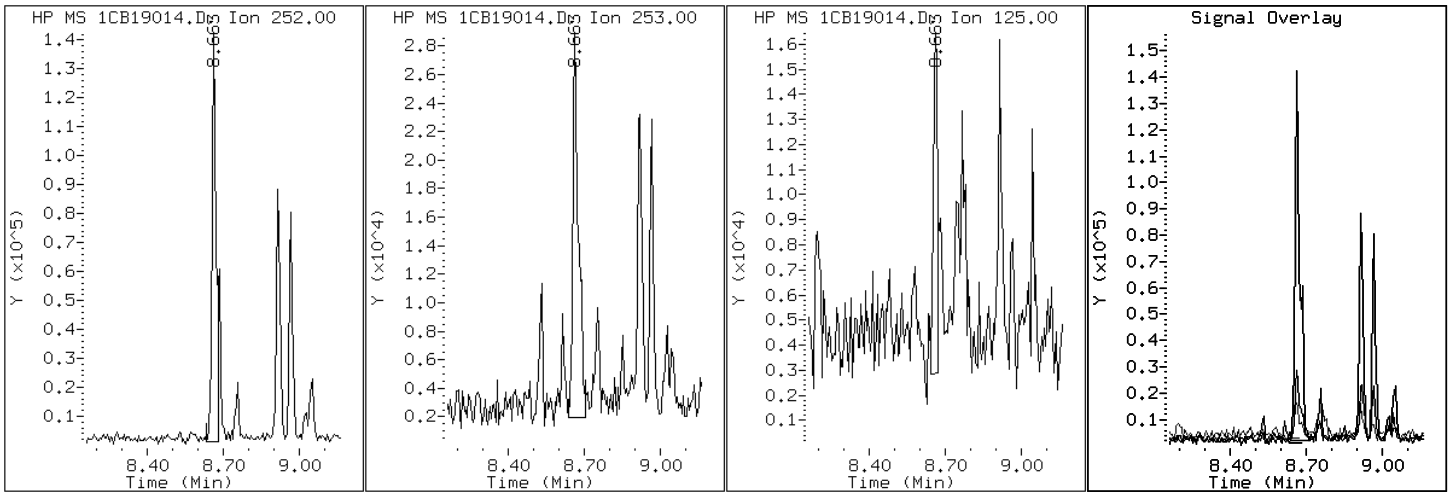
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

20 Benzo(b)fluoranthene



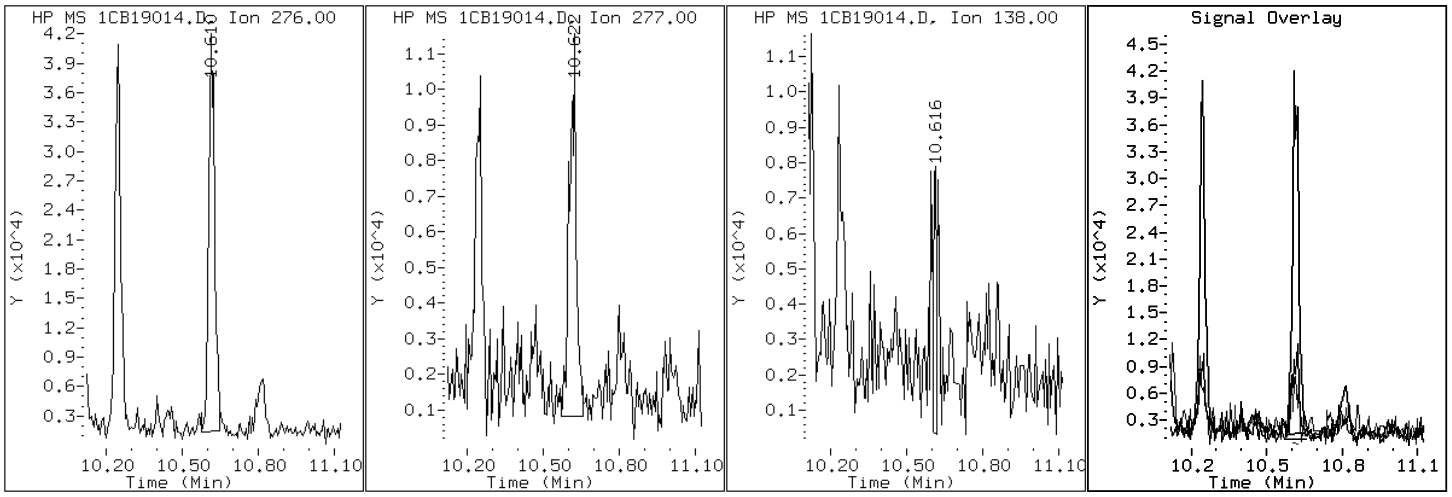
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

26 Benzo(g,h,i)perylene



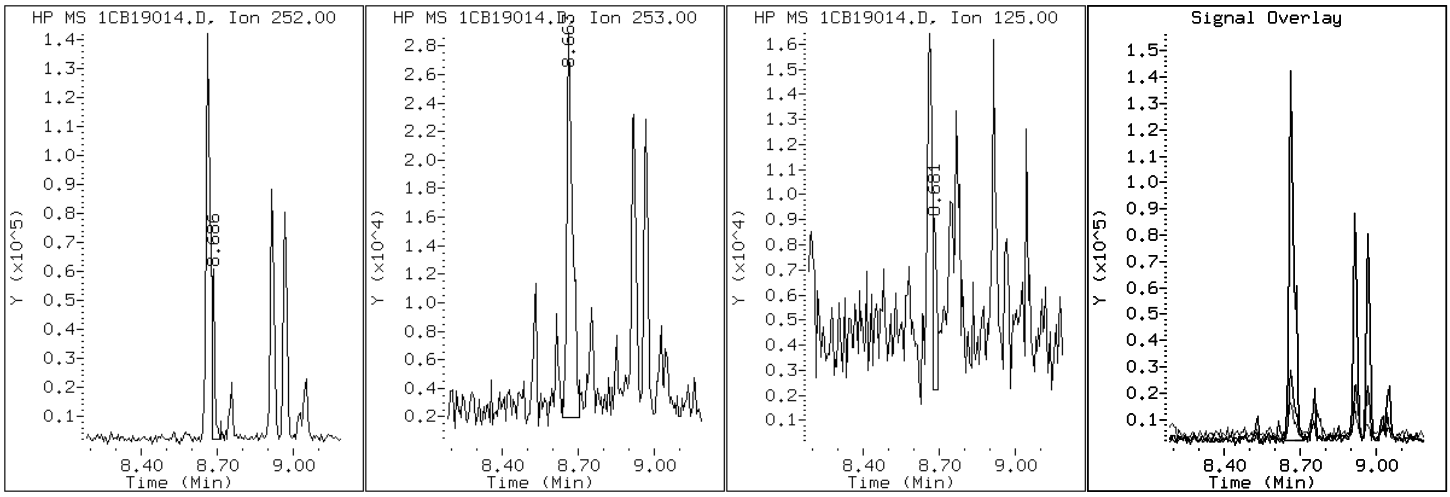
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

21 Benzo(k)fluoranthene



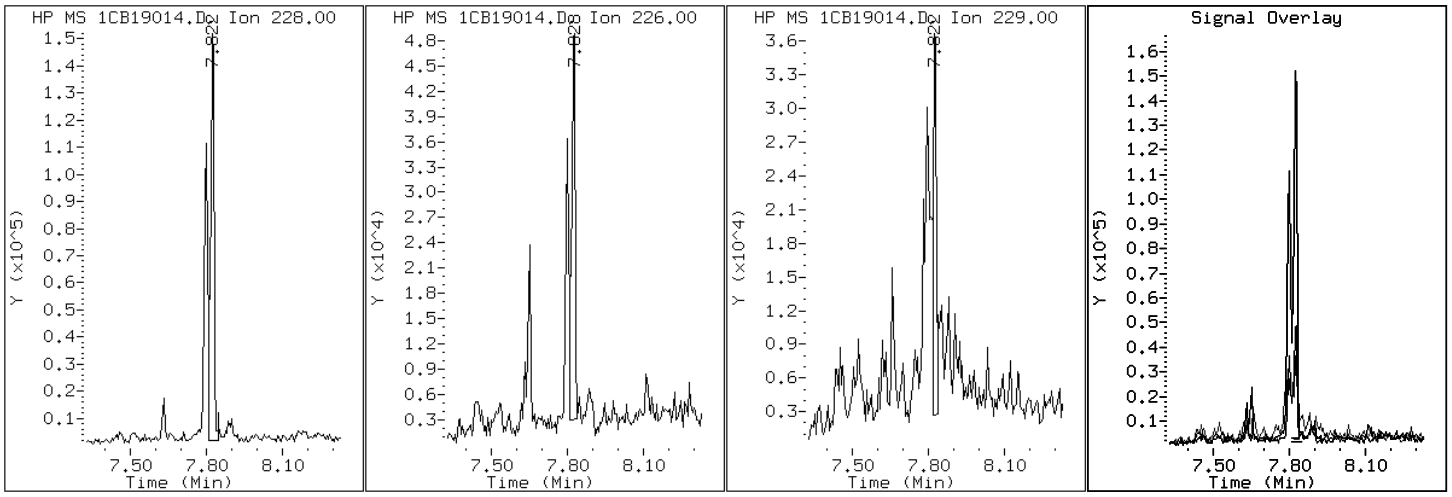
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a | Operator: SCC

19 Chrysene



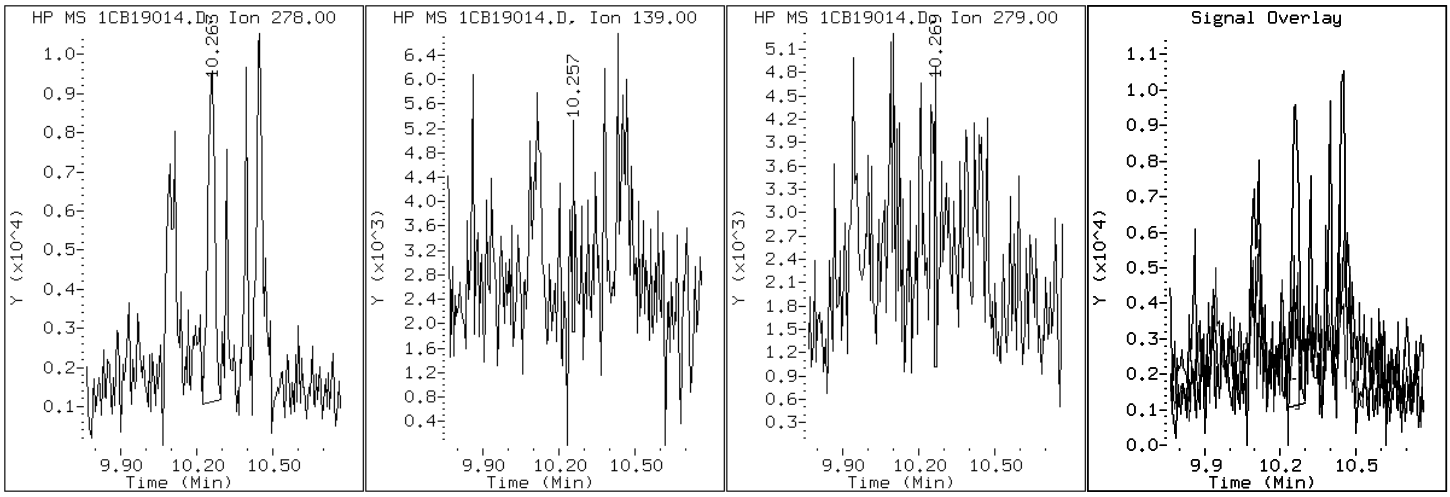
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

25 Dibenzo(a,h)anthracene



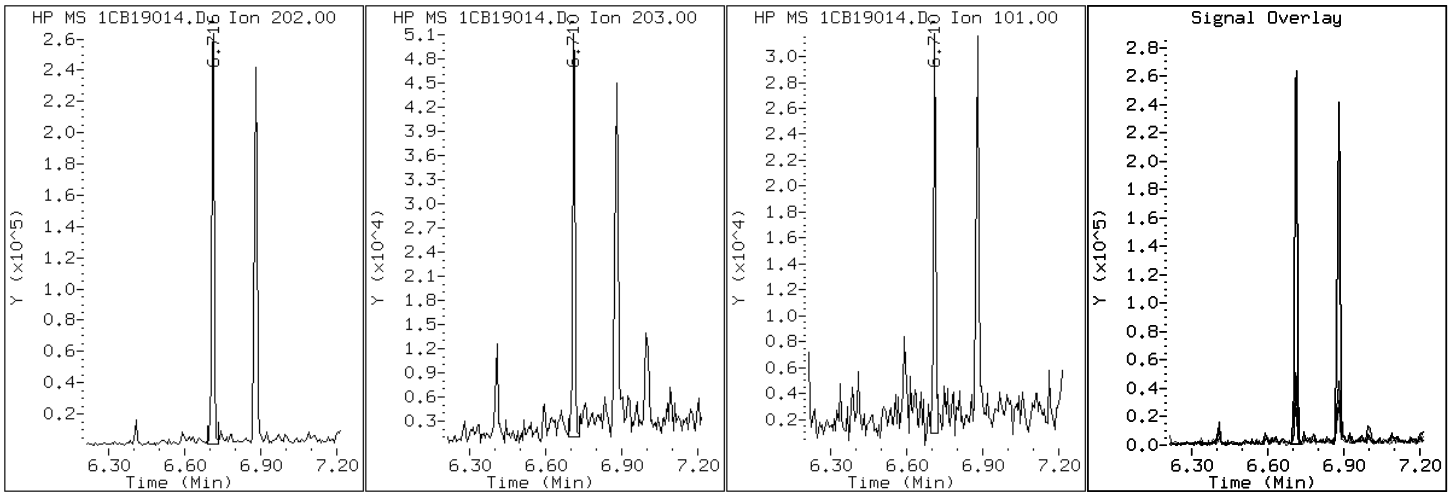
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

15 Fluoranthene



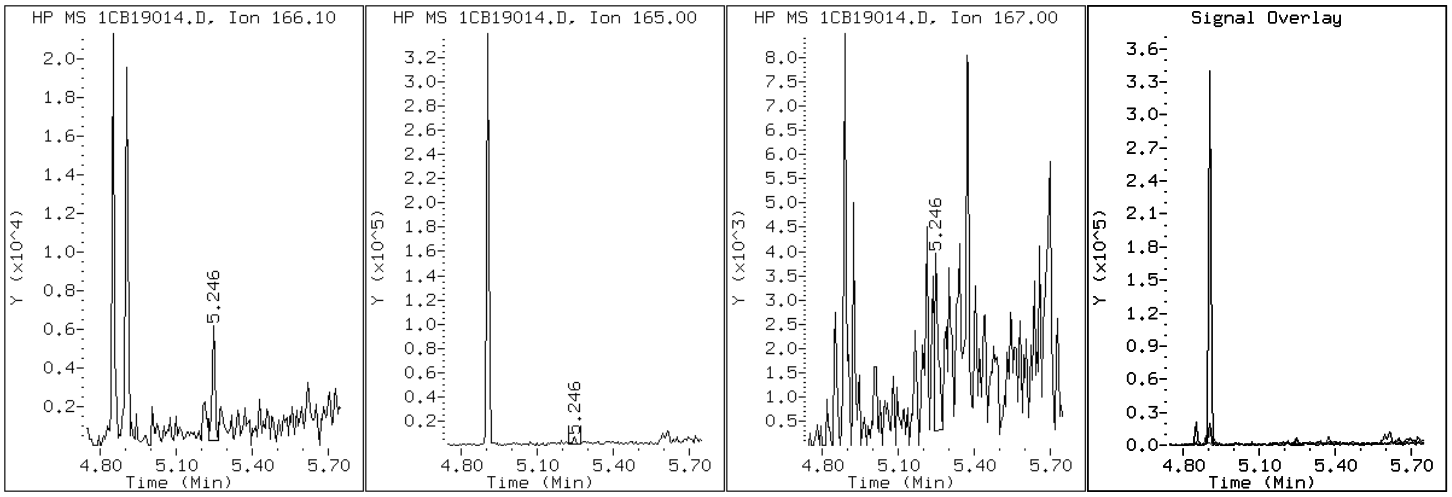
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

9 Fluorene



Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

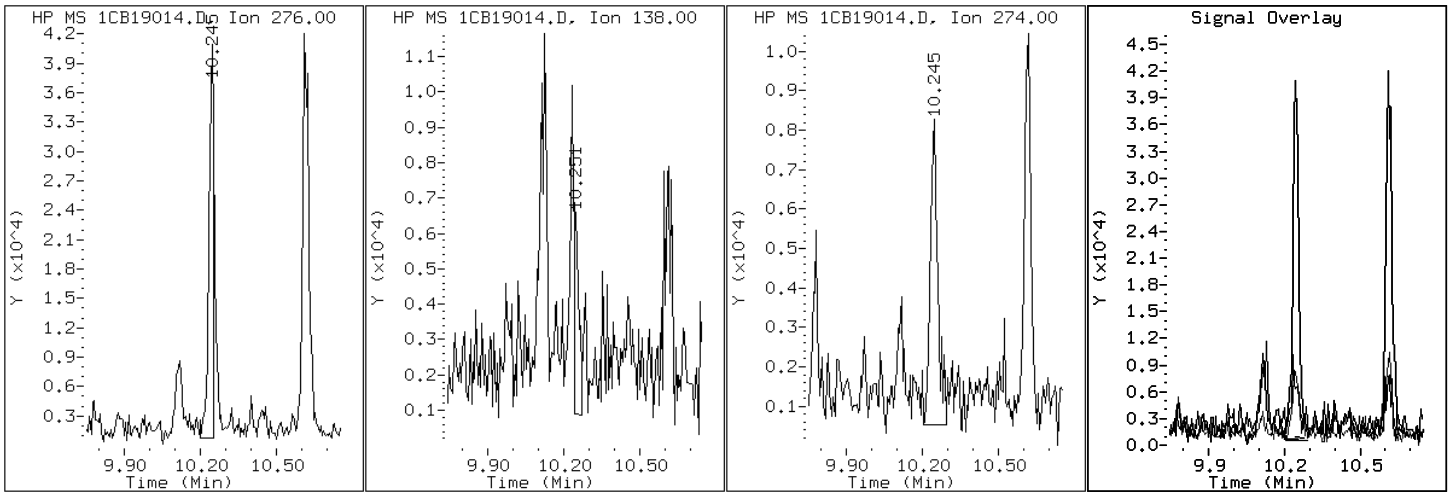
Client ID: CV0748AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a

Operator: SCC

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



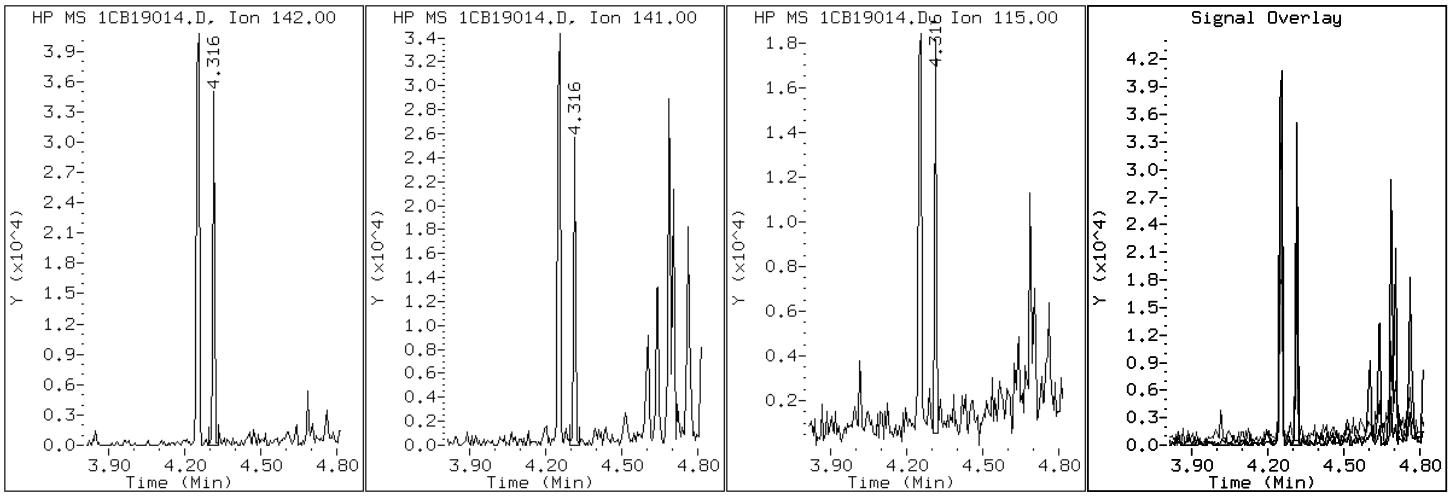
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

4 1-Methylnaphthalene



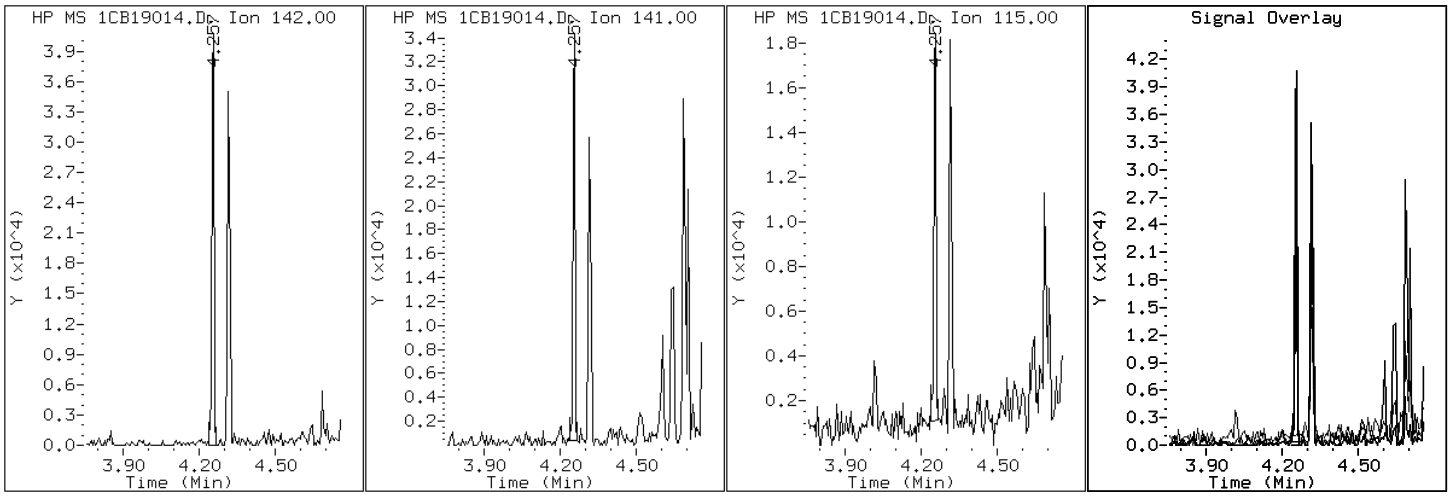
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

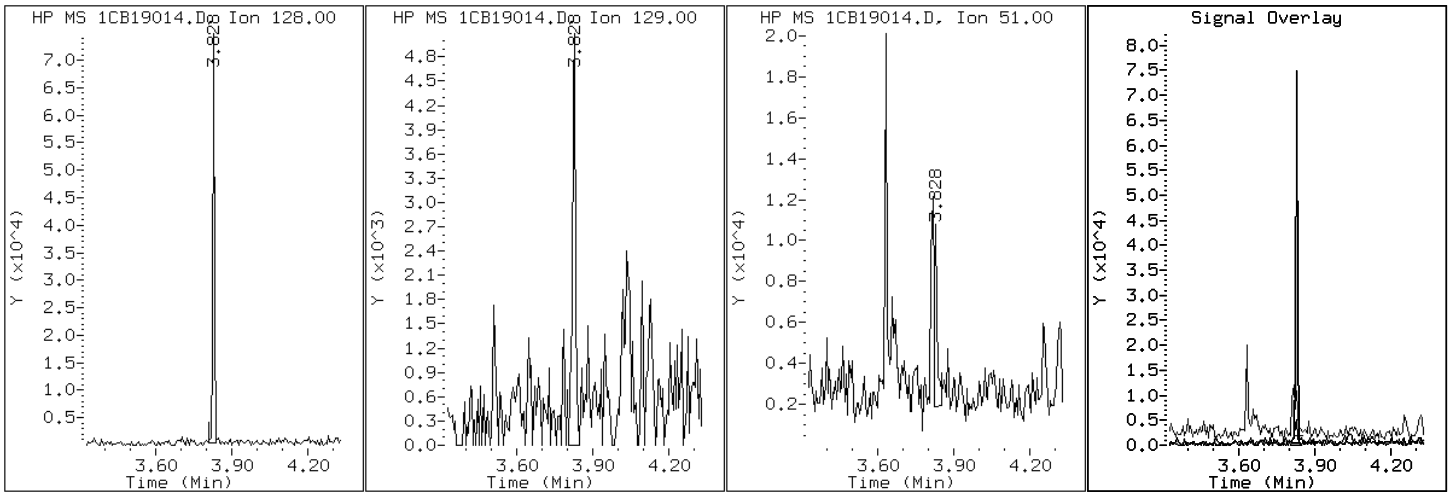
Client ID: CV0748AB-GS

Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a

Operator: SCC

2 Naphthalene



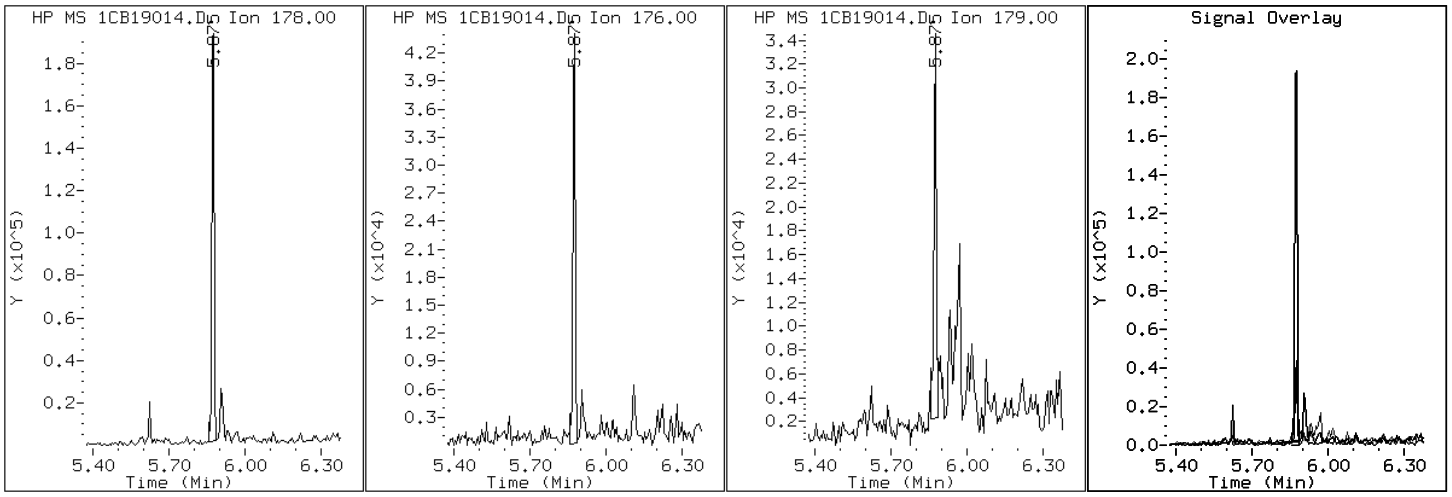
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS | Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a | Operator: SCC

11 Phenanthrene



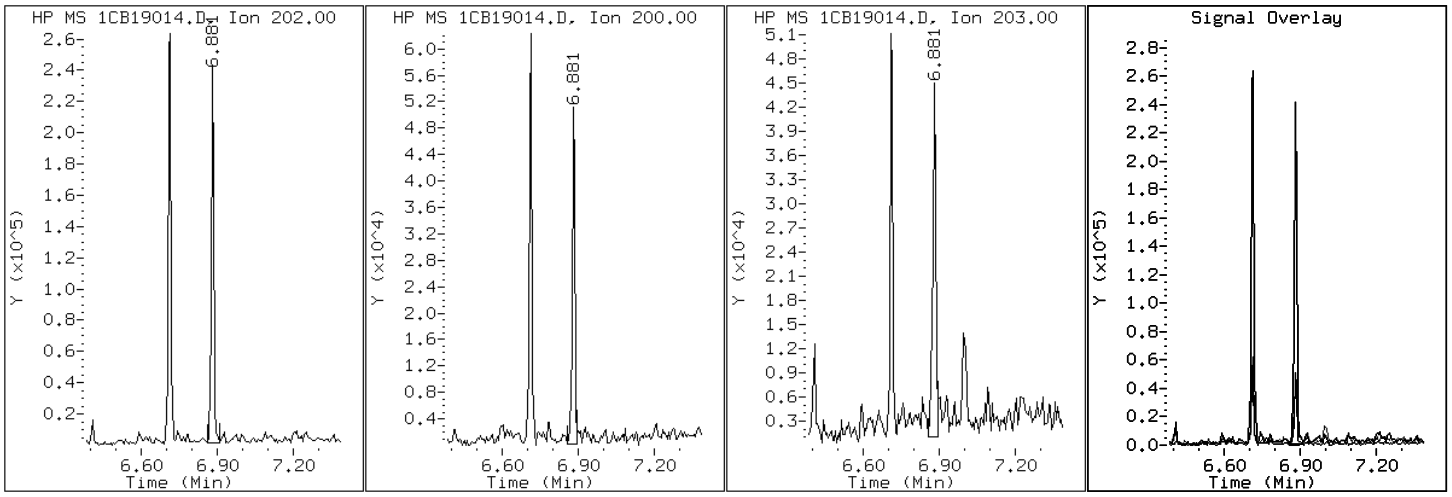
Data File: 1CB19014.D

Date: 19-FEB-2013 17:31

Client ID: CV0748AB-GS Instrument: BSMC5973.i

Sample Info: 680-87320-a-20-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB19014.D
Inj. Date and Time: 19-FEB-2013 17:31
Instrument ID: BSMC5973.i
Client ID: CV0748AB-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

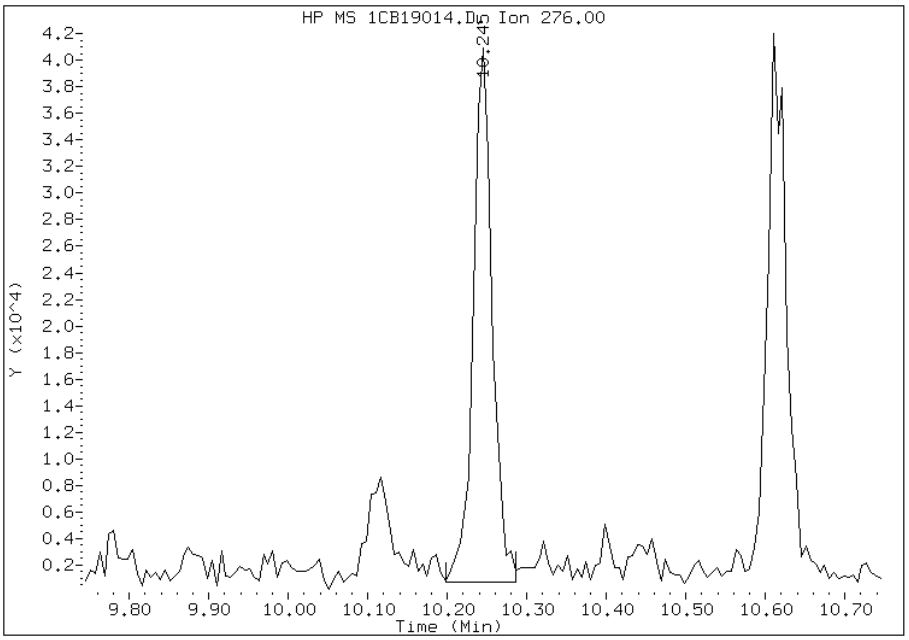
Processing Integration Results

RT: 10.25

Response: 66379

Amount: 1

Conc: 413



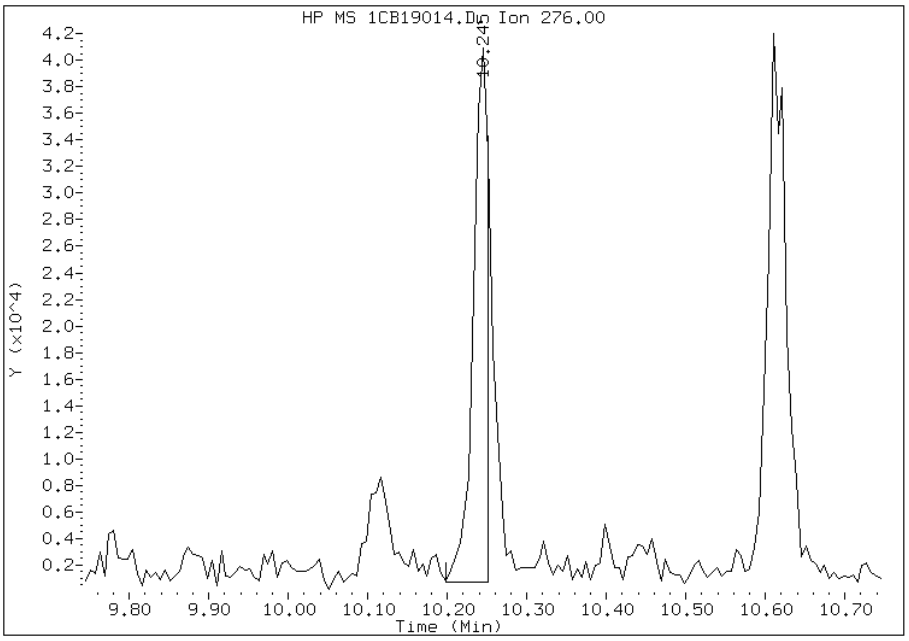
Manual Integration Results

RT: 10.25

Response: 52461

Amount: 1

Conc: 327



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:34
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-87320-1 Analy Batch No.: 133924

SDG No.: 68087320-1

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.: 680-87320-1 Analy Batch No.: 133924

SDG No.: 68087320-1

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.: 680-87320-1 Analy Batch No.: 133924

SDG No.: 68087320-1

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.: 680-87320-1 Analy Batch No.: 133924

SDG No.: 68087320-1

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

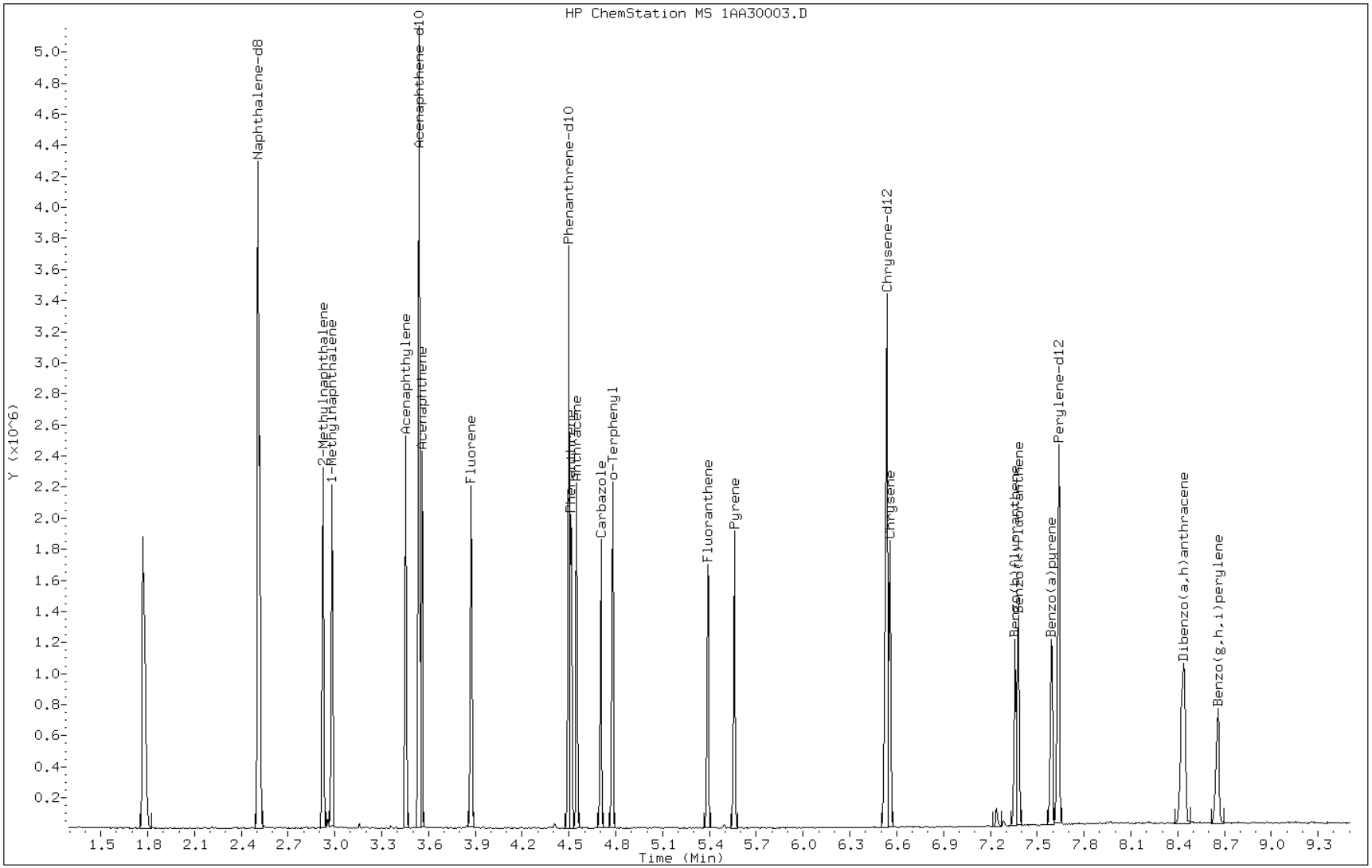
M - Compound response manually integrated.

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

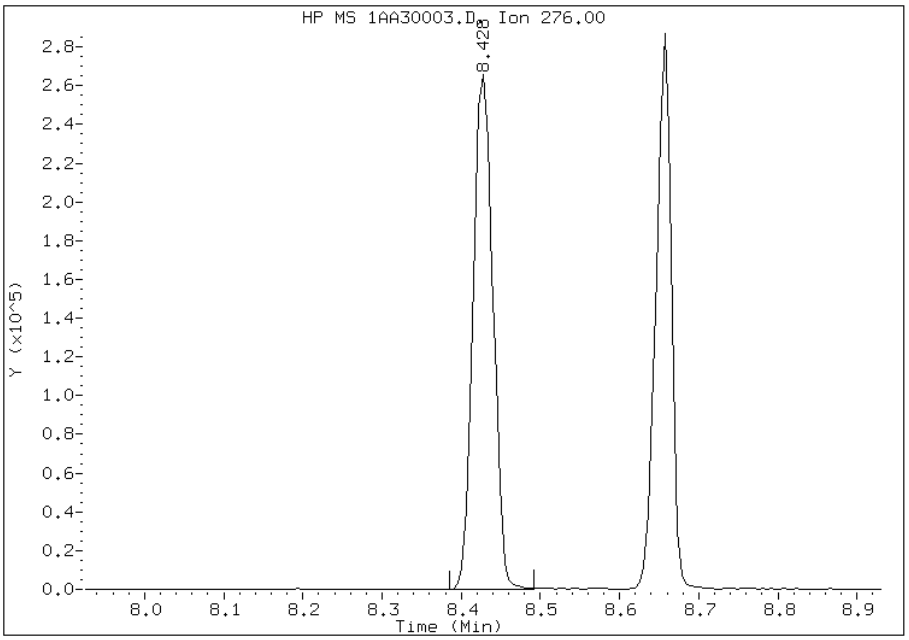
Processing Integration Results

RT: 8.43

Response: 458405

Amount: 22

Conc: 22



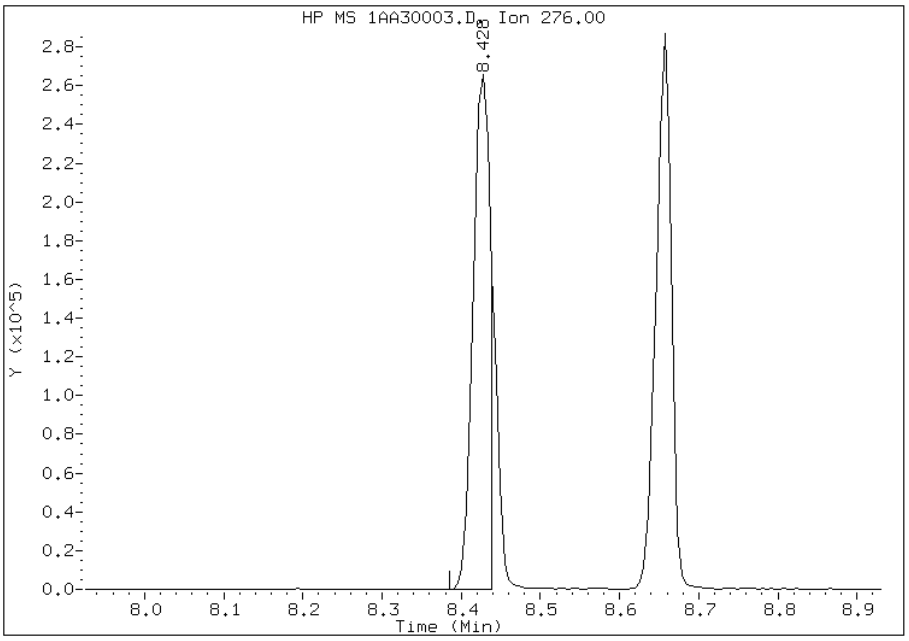
Manual Integration Results

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

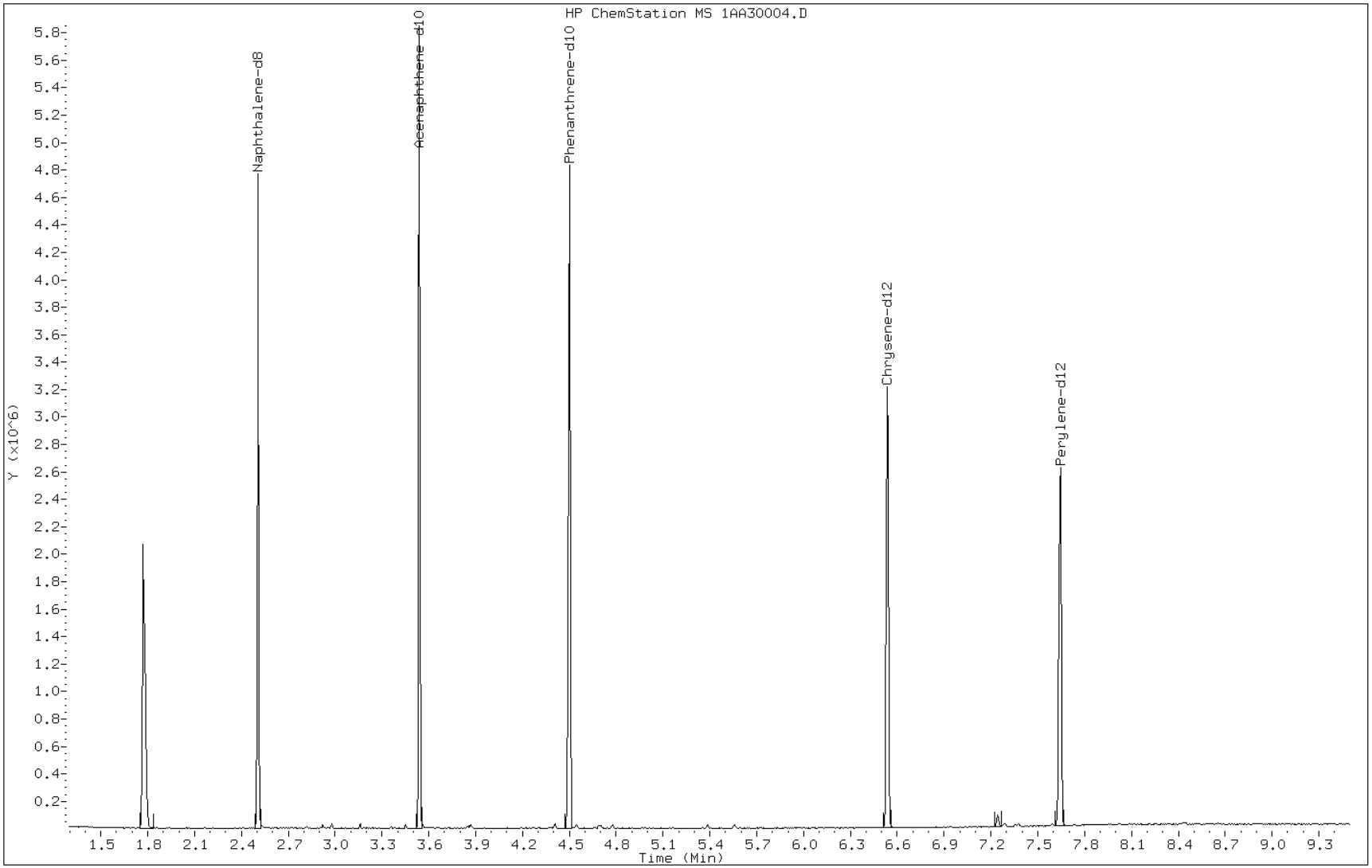
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

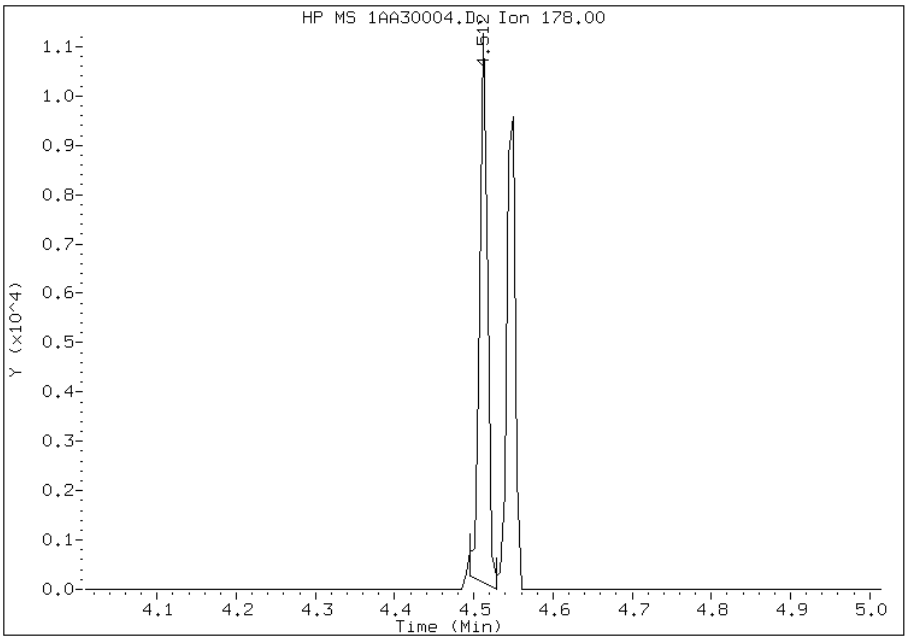
Processing Integration Results

RT: 4.51

Response: 7417

Amount: 0

Conc: 0



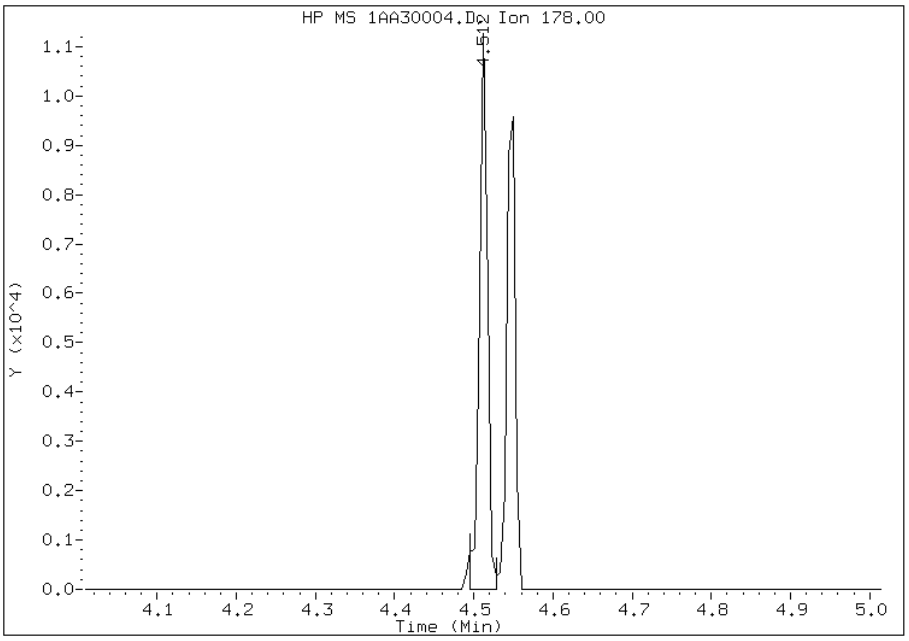
Manual Integration Results

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

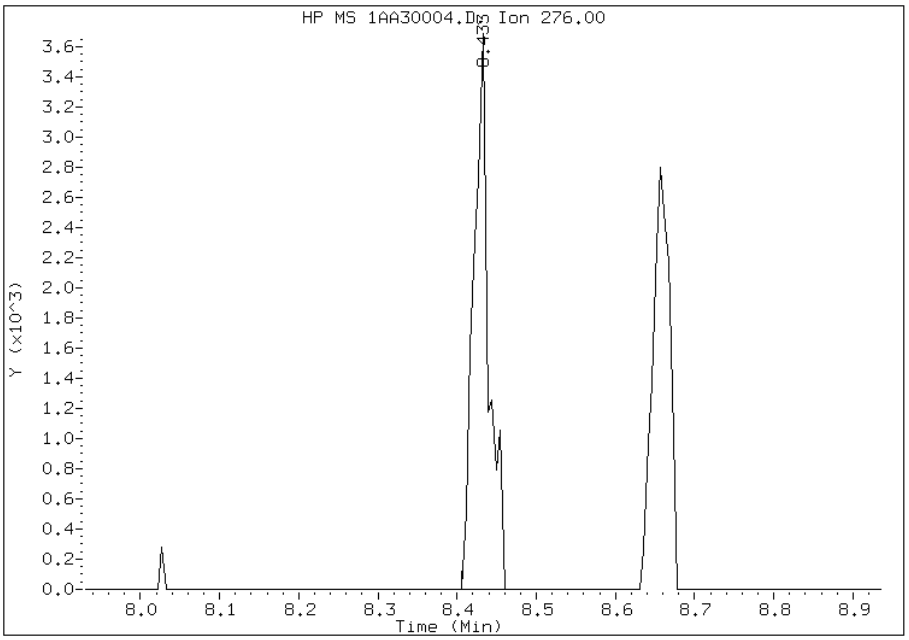
Processing Integration Results

RT: 8.43

Response: 4847

Amount: 0

Conc: 0



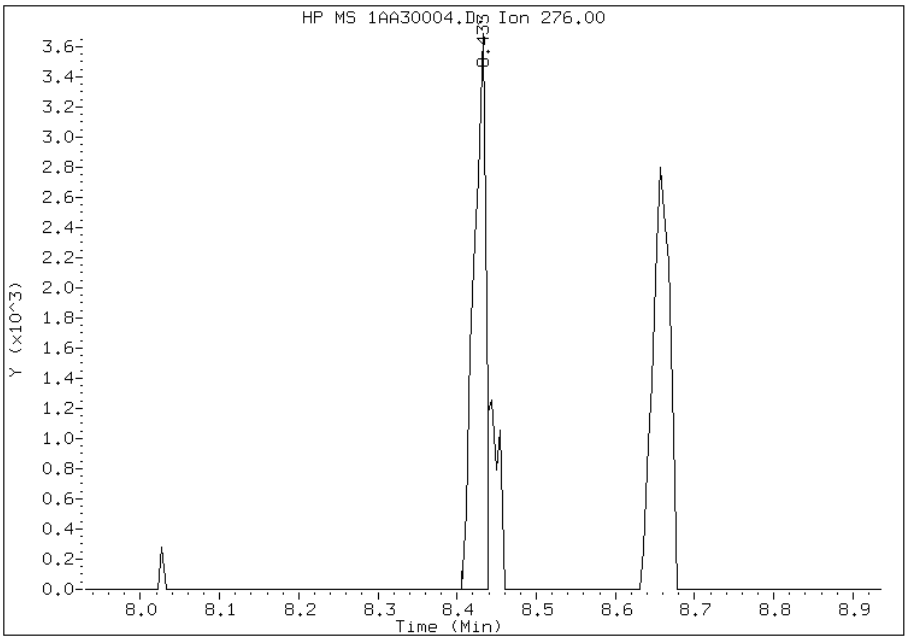
Manual Integration Results

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

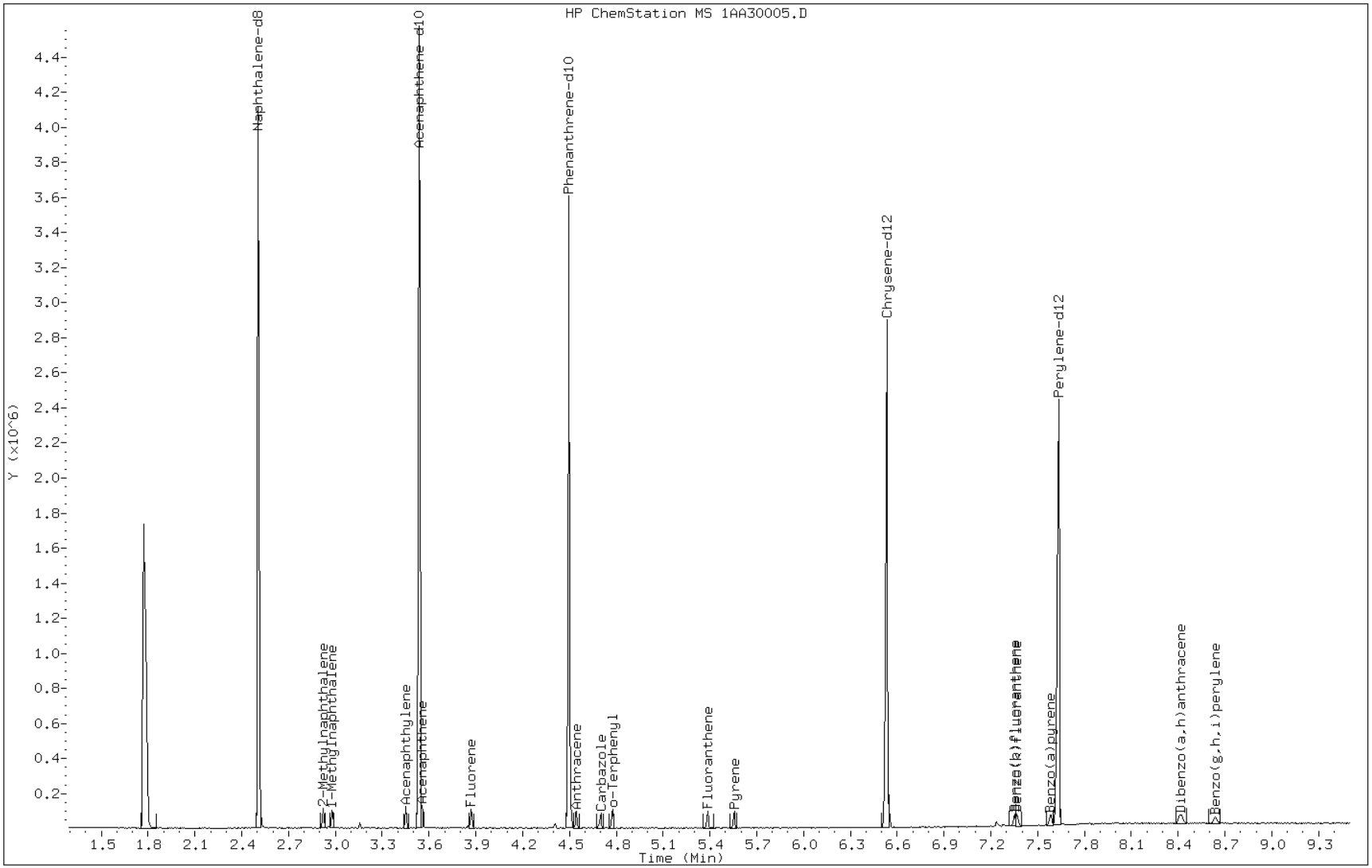
M - Compound response manually integrated.

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

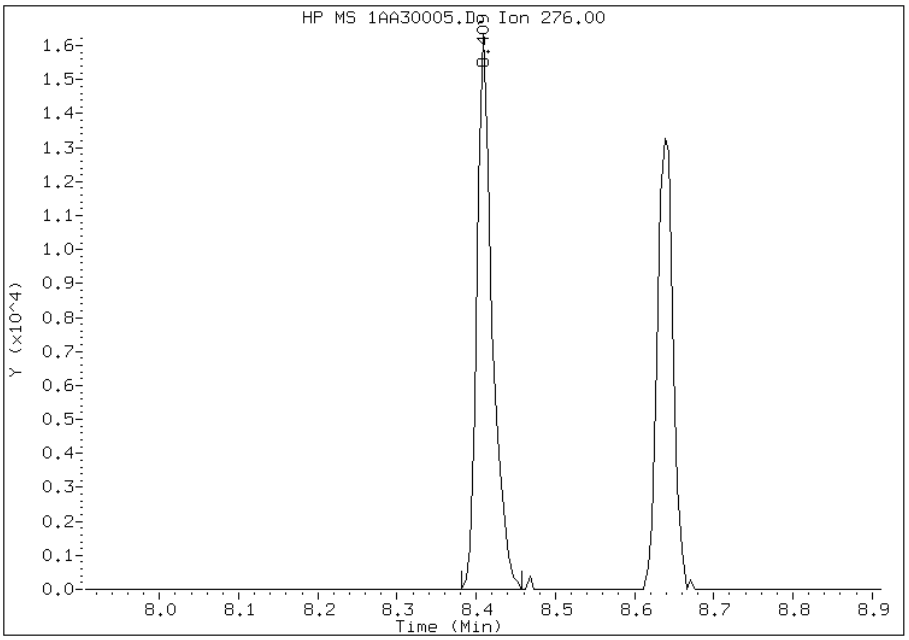
Processing Integration Results

RT: 8.41

Response: 21625

Amount: 1

Conc: 1



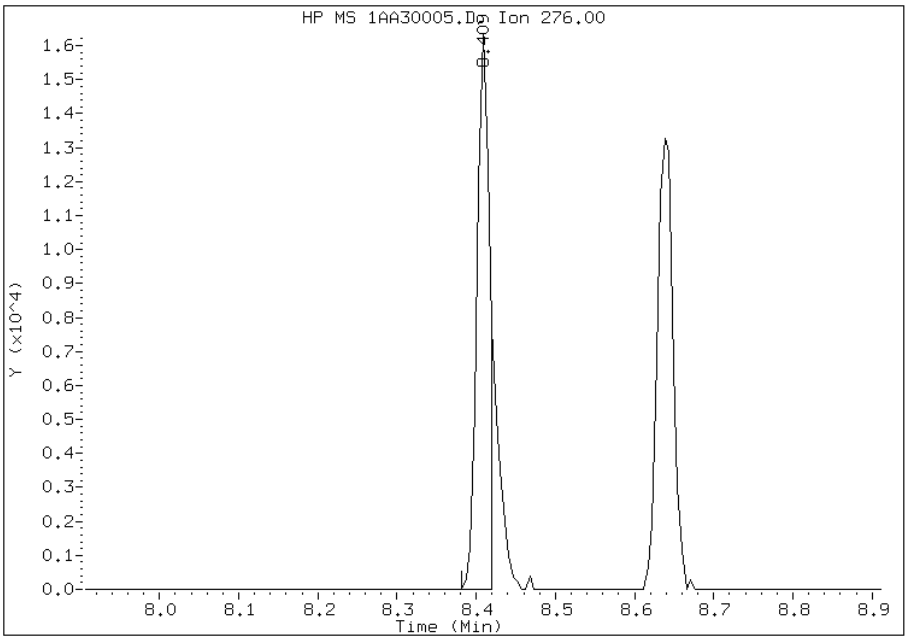
Manual Integration Results

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

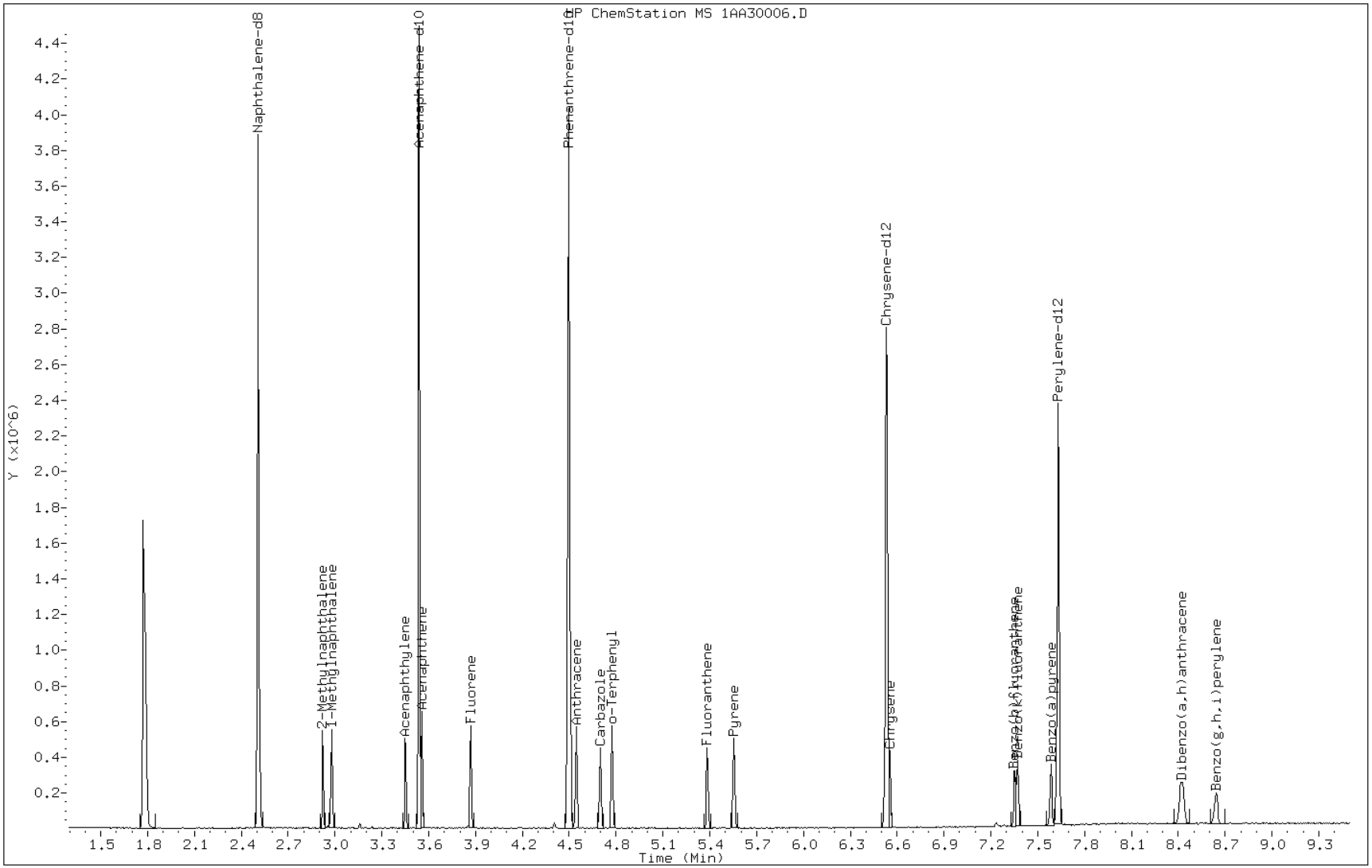
M - Compound response manually integrated.

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

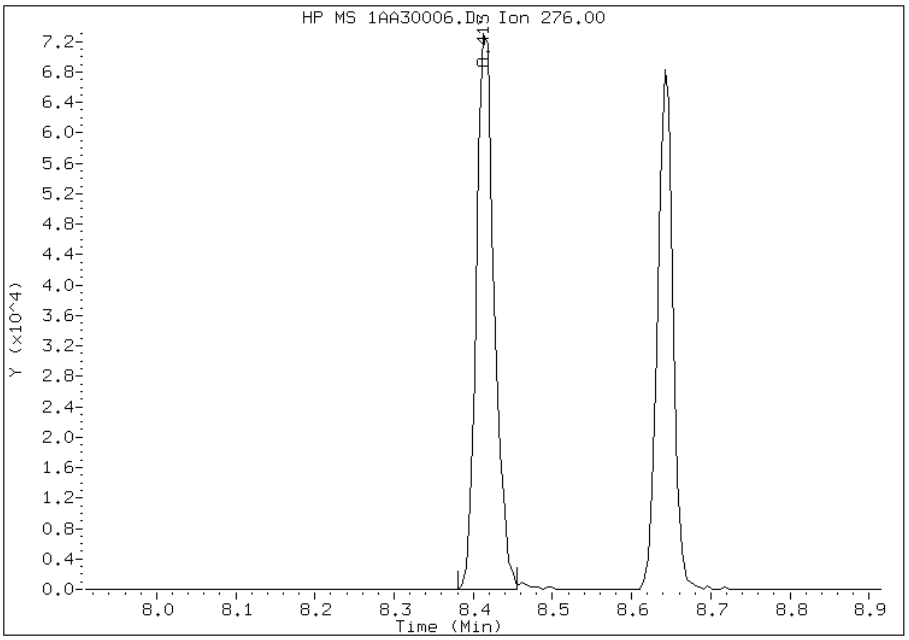
Processing Integration Results

RT: 8.41

Response: 113911

Amount: 5

Conc: 5



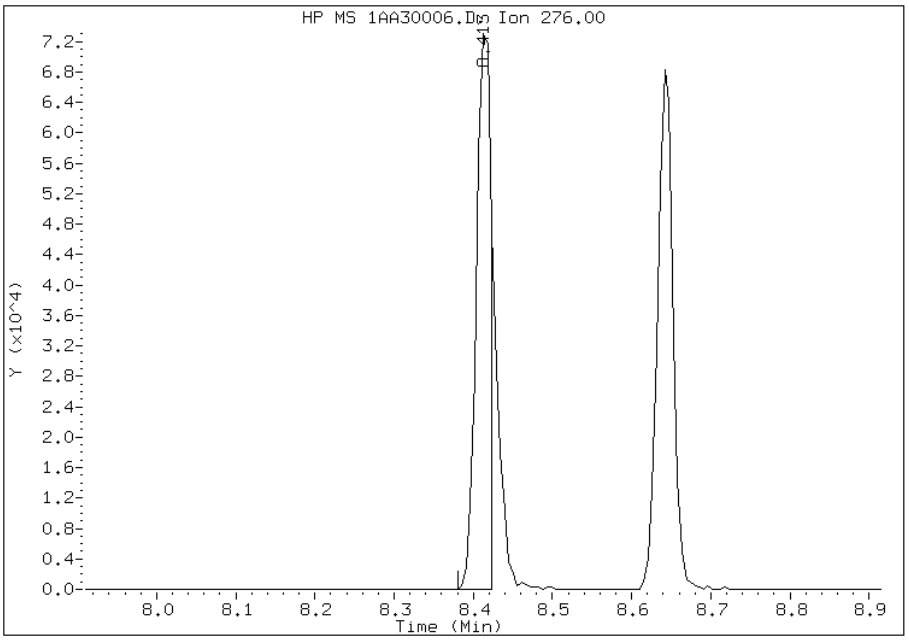
Manual Integration Results

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

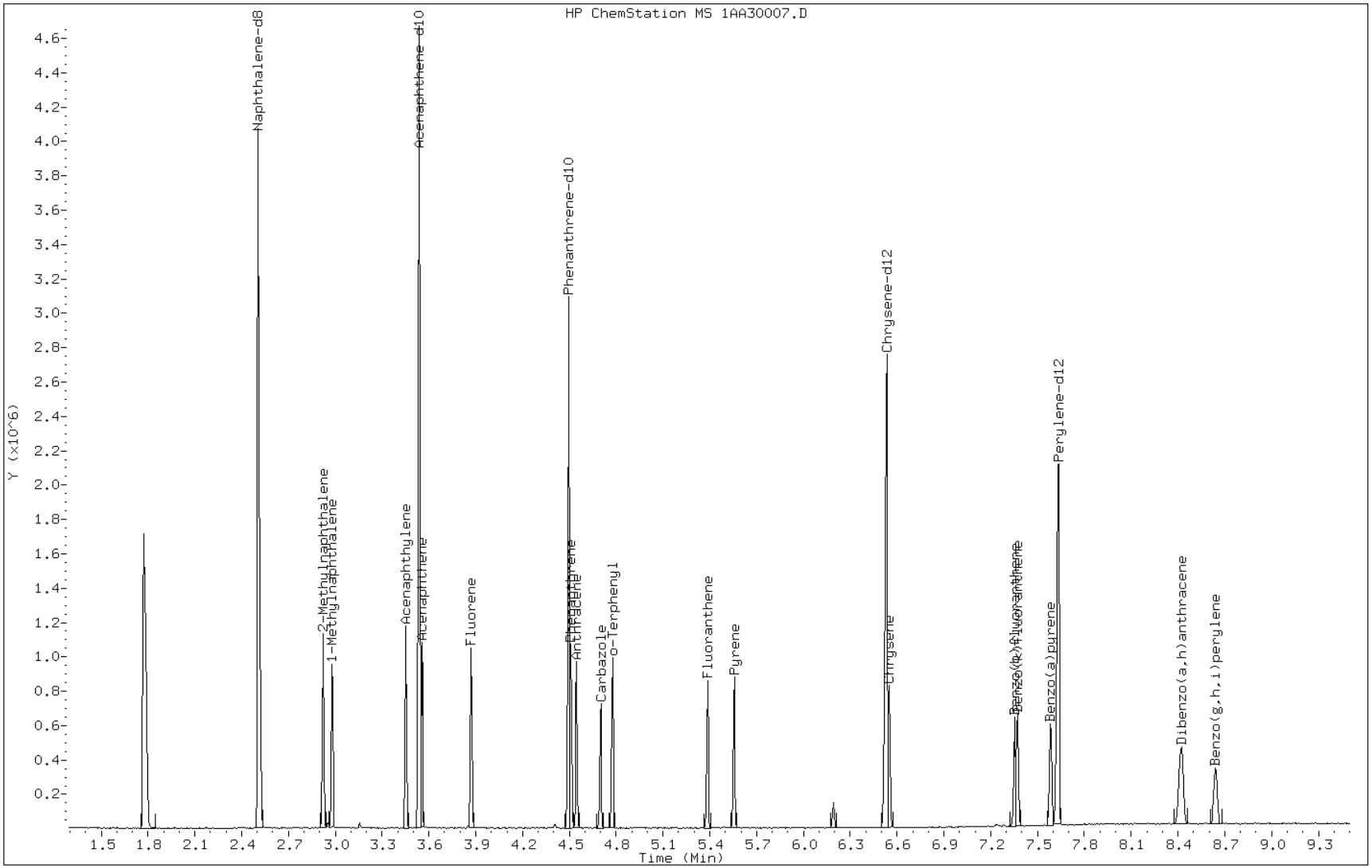
M - Compound response manually integrated.

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

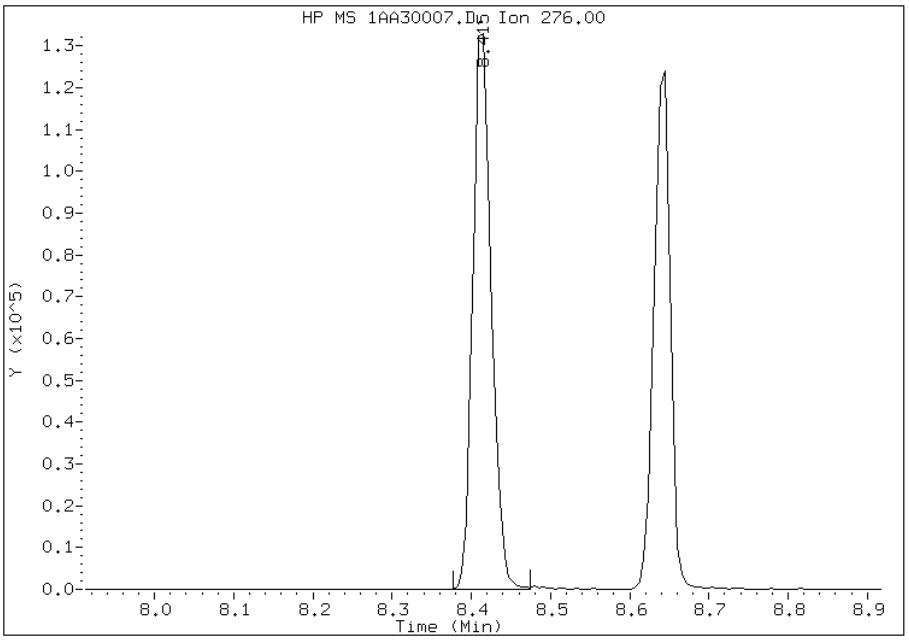
Processing Integration Results

RT: 8.42

Response: 213637

Amount: 11

Conc: 11



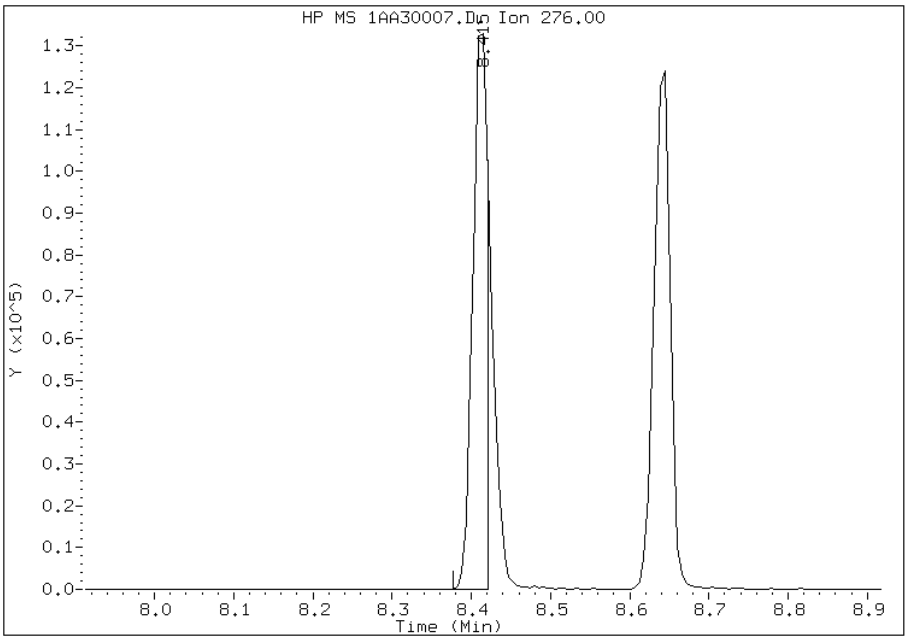
Manual Integration Results

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

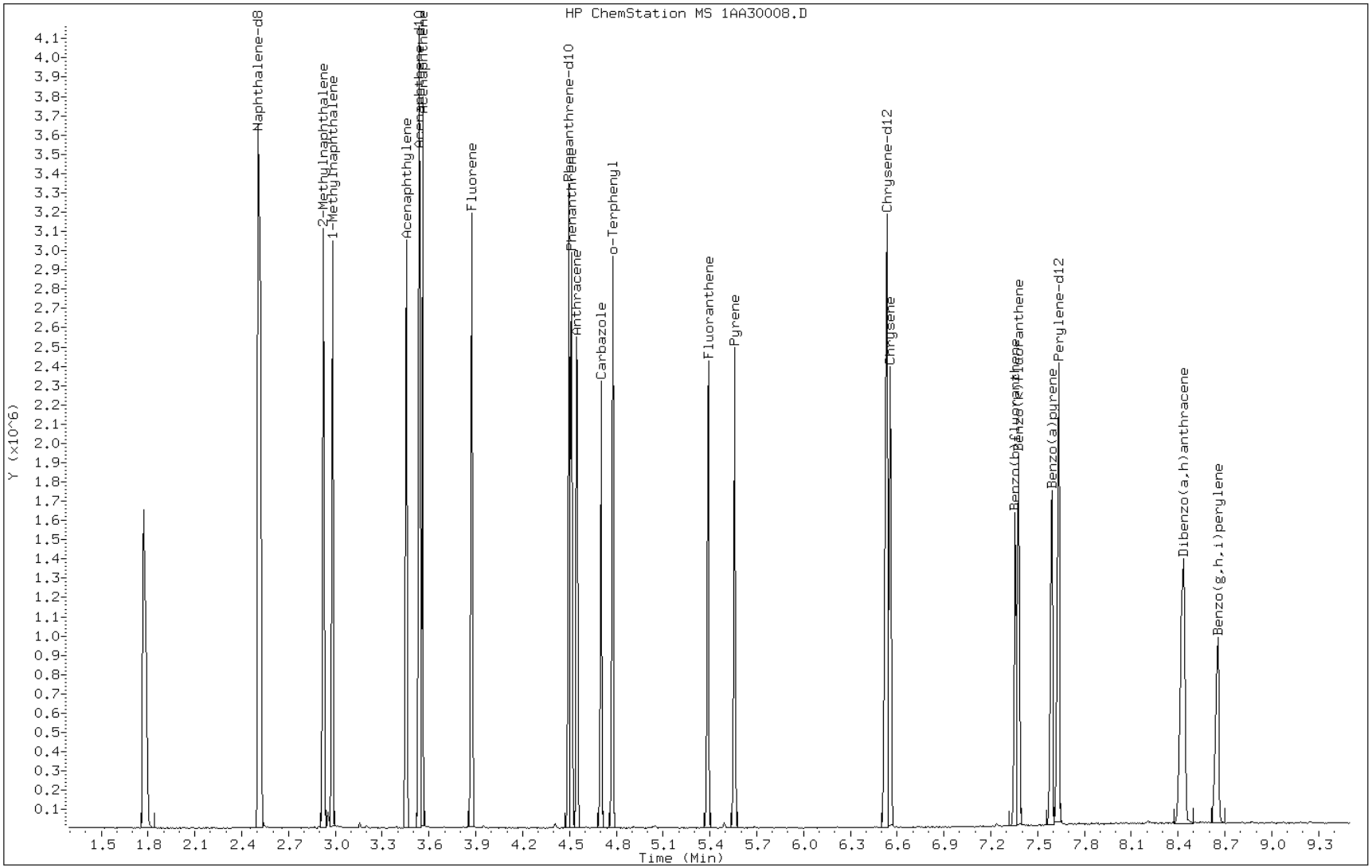
M - Compound response manually integrated.

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

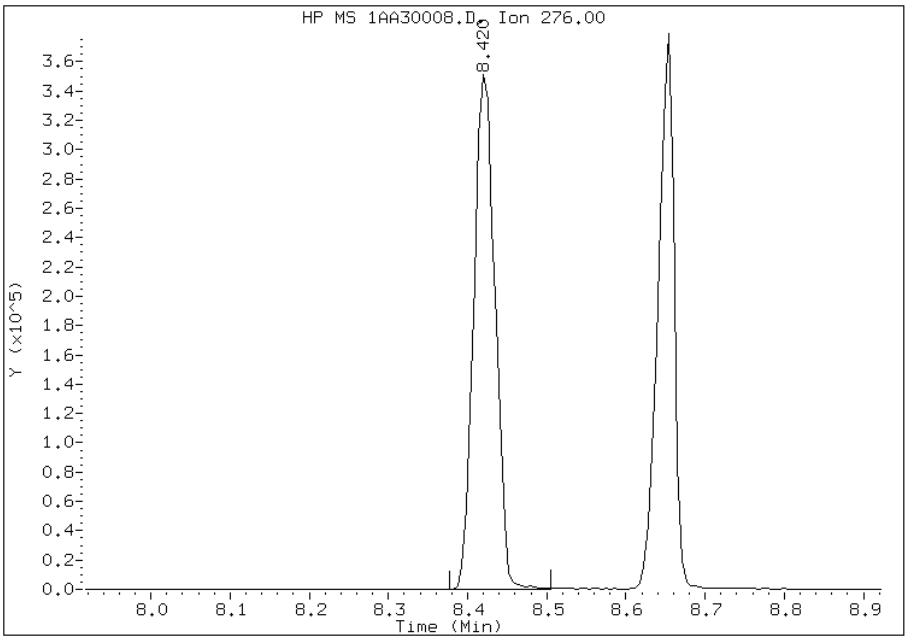
Processing Integration Results

RT: 8.42

Response: 649974

Amount: 32

Conc: 32



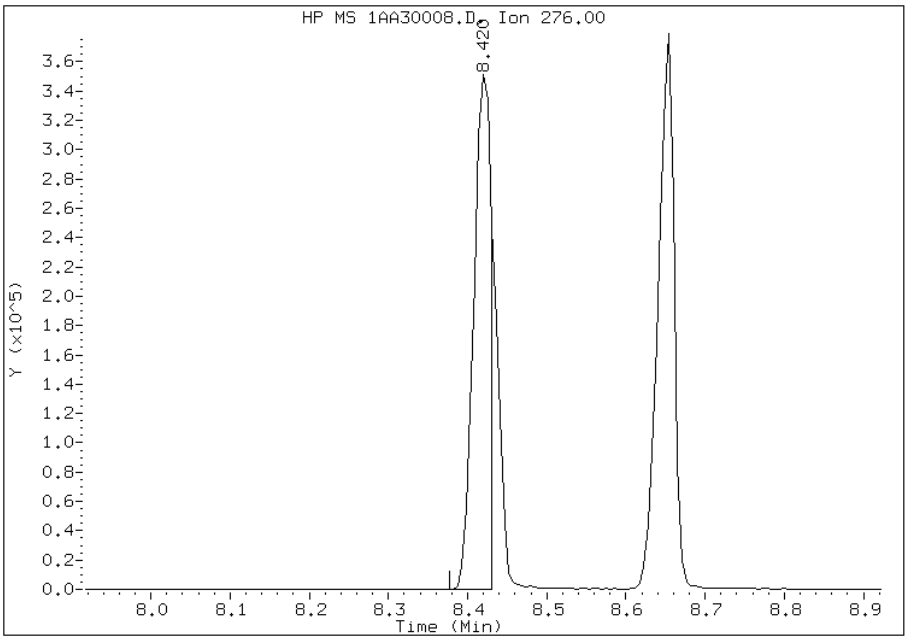
Manual Integration Results

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

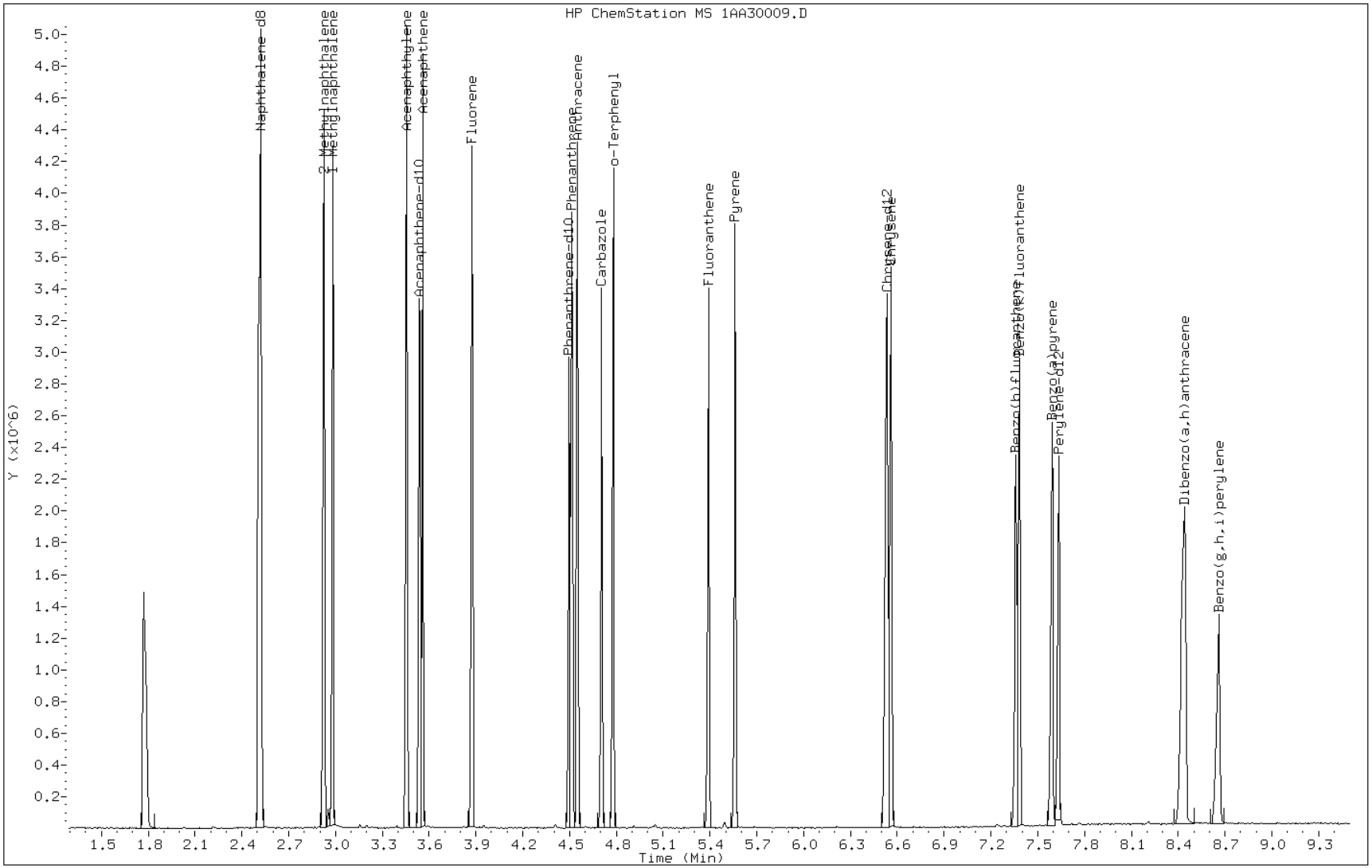
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

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

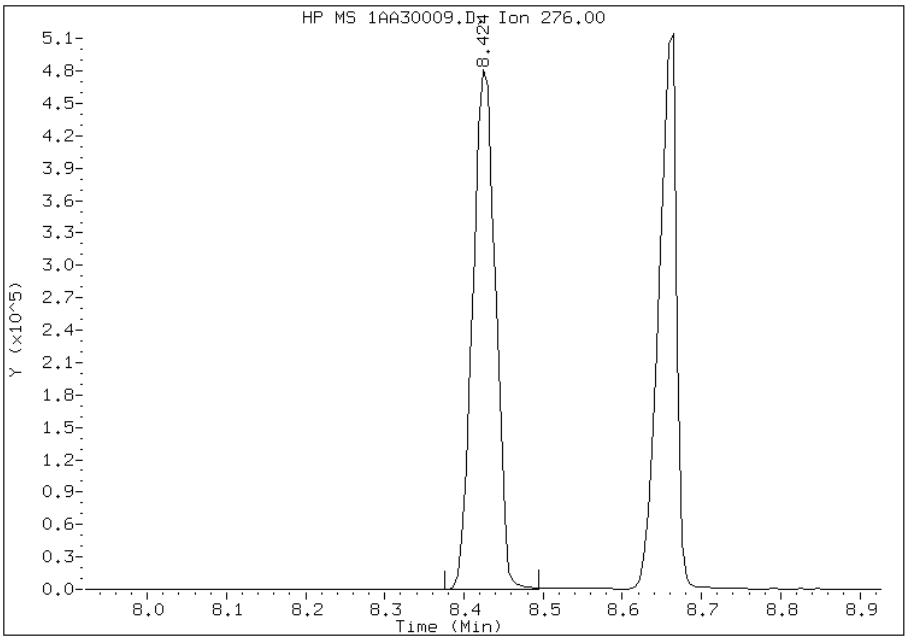
Processing Integration Results

RT: 8.42

Response: 954291

Amount: 60

Conc: 60



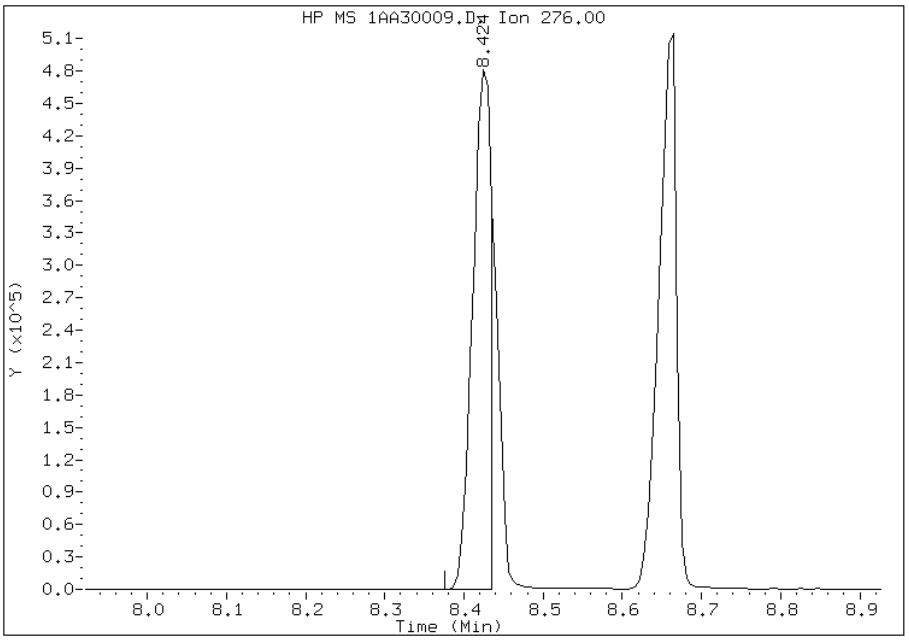
Manual Integration Results

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.: 680-87320-1 Analy Batch No.: 133227

SDG No.: 68087320-1

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.: 680-87320-1 Analy Batch No.: 133227

SDG No.: 68087320-1

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.: 680-87320-1 Analy Batch No.: 133227

SDG No.: 68087320-1

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.: 680-87320-1 Analy Batch No.: 133227

SDG No.: 68087320-1

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

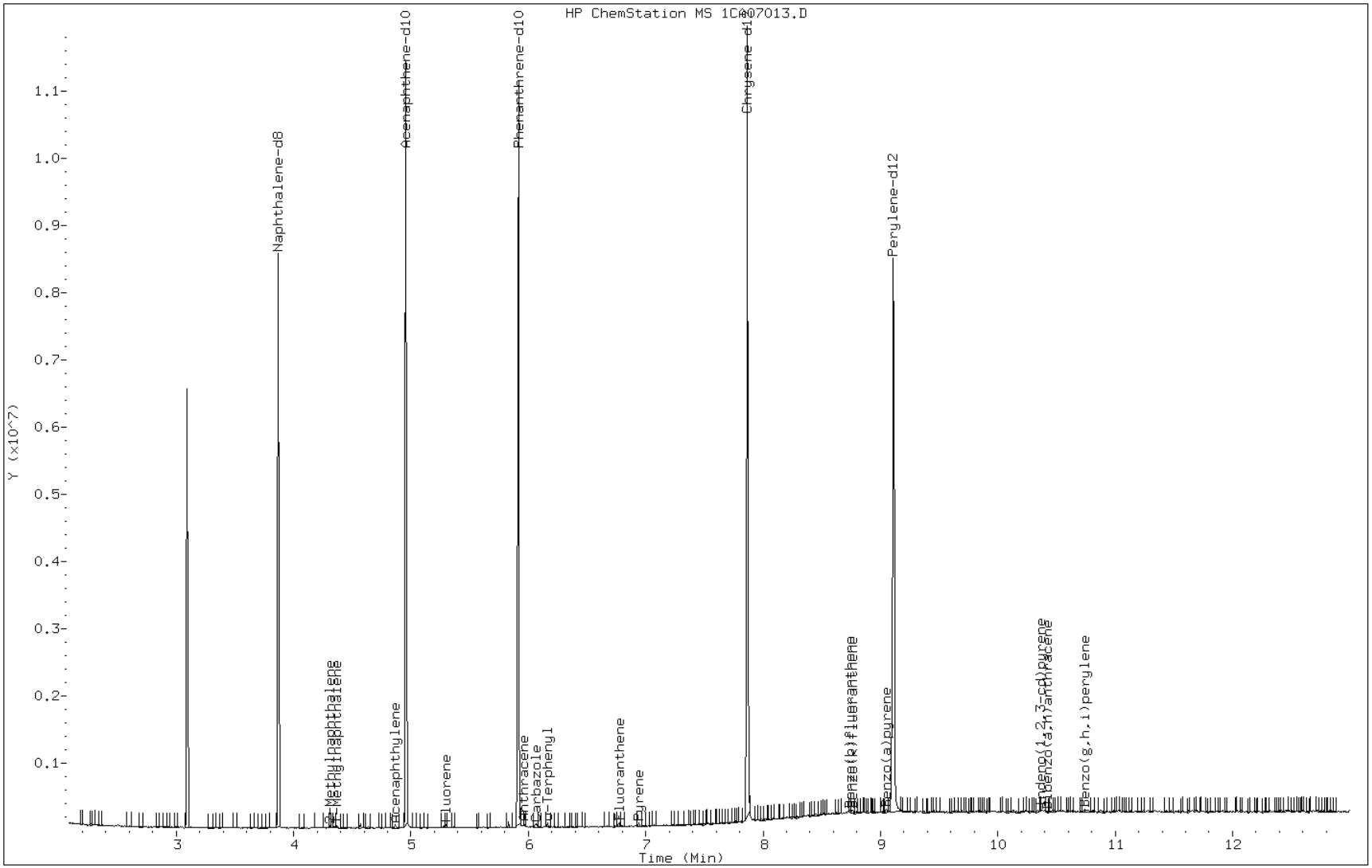
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

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

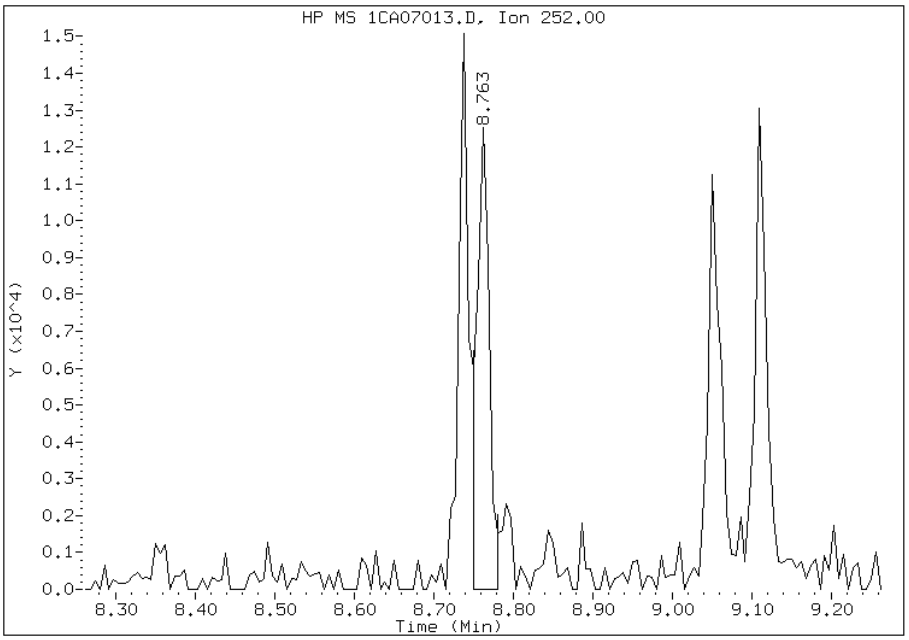
Processing Integration Results

RT: 8.76

Response: 14049

Amount: 0

Conc: 0



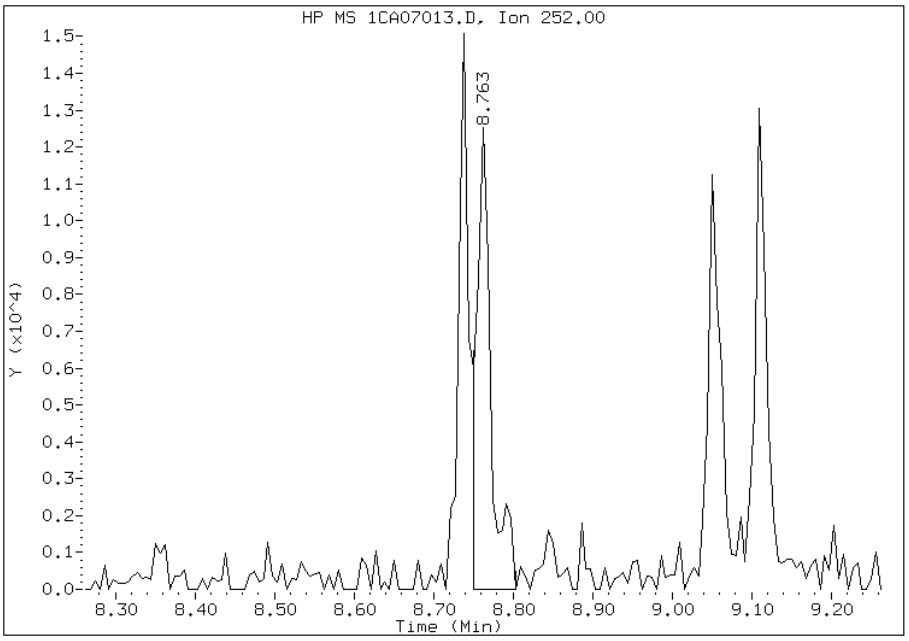
Manual Integration Results

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

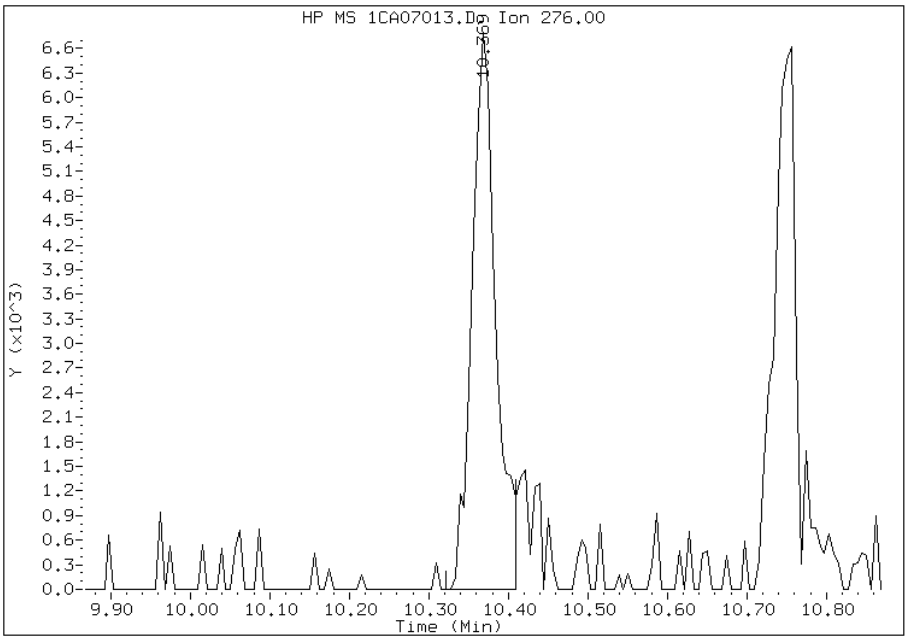
Processing Integration Results

RT: 10.37

Response: 14154

Amount: 0

Conc: 0



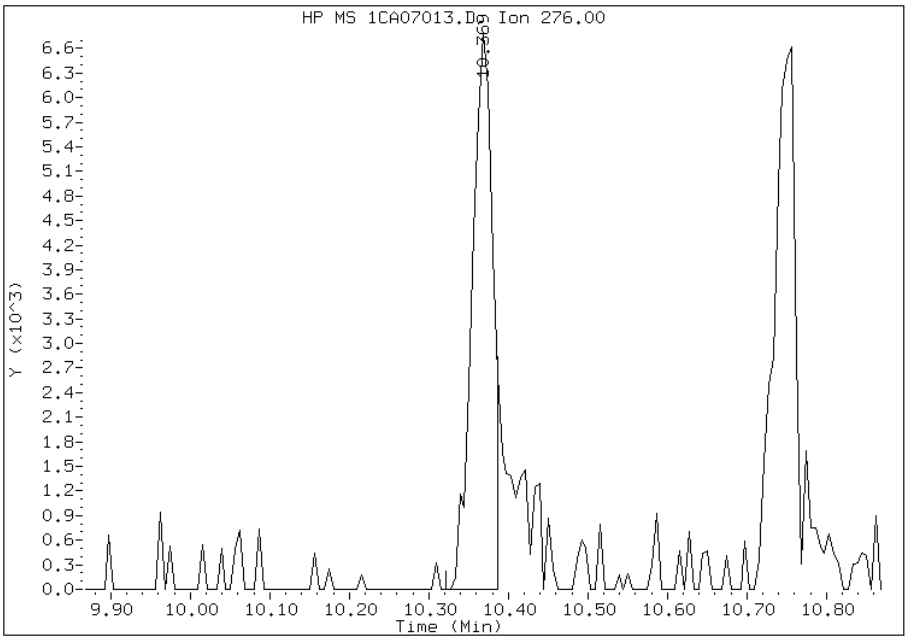
Manual Integration Results

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

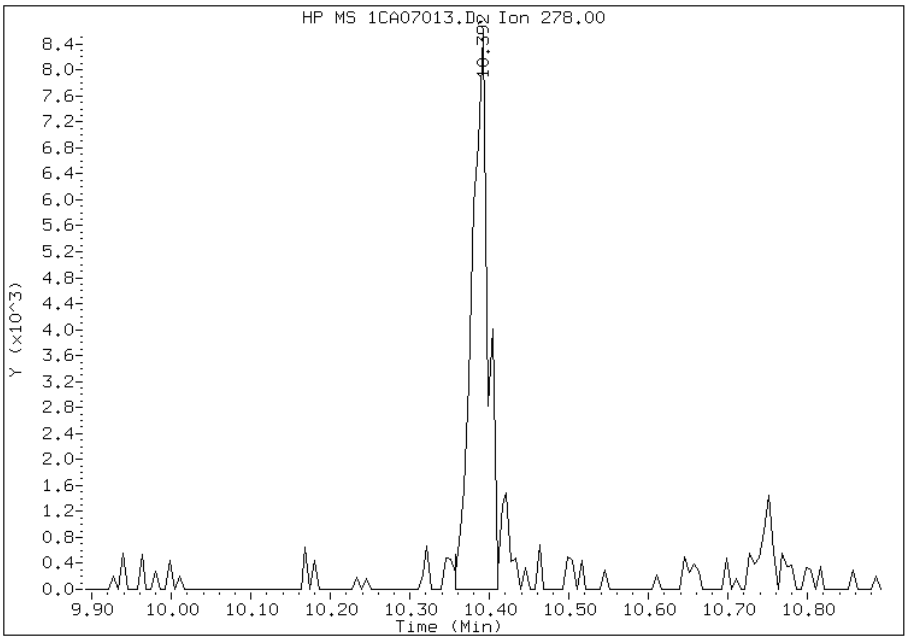
Processing Integration Results

RT: 10.39

Response: 12138

Amount: 0

Conc: 0



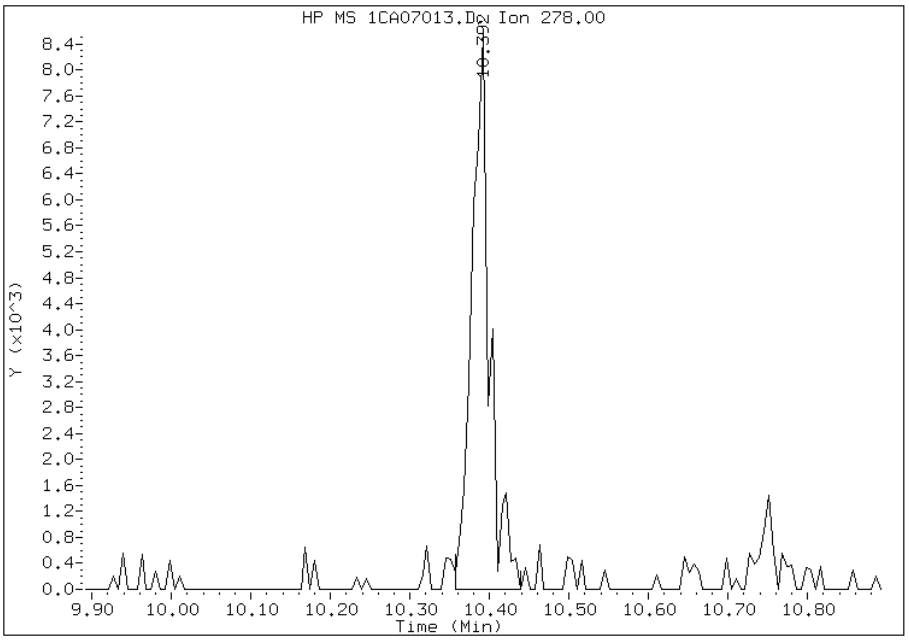
Manual Integration Results

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

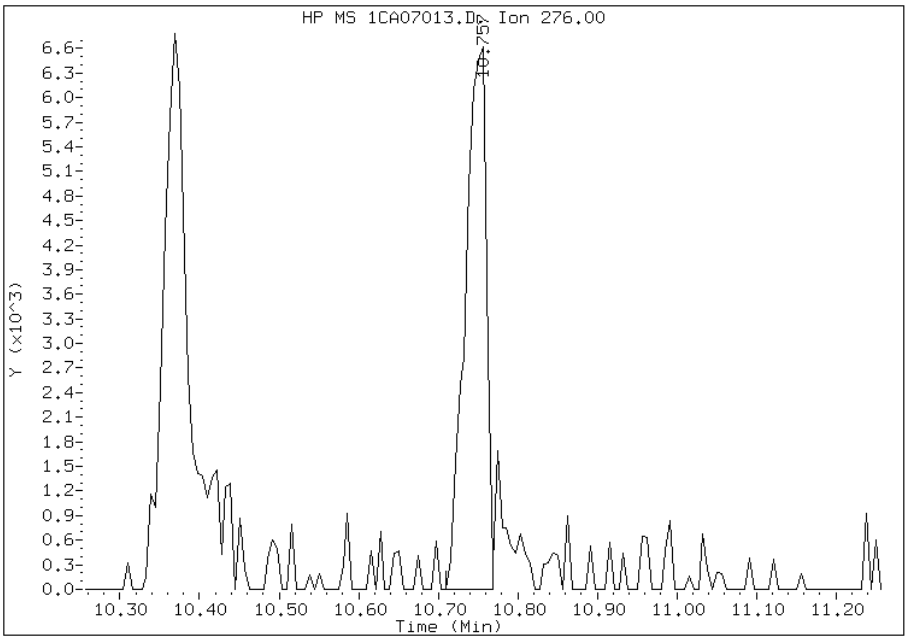
Processing Integration Results

RT: 10.76

Response: 12183

Amount: 0

Conc: 0



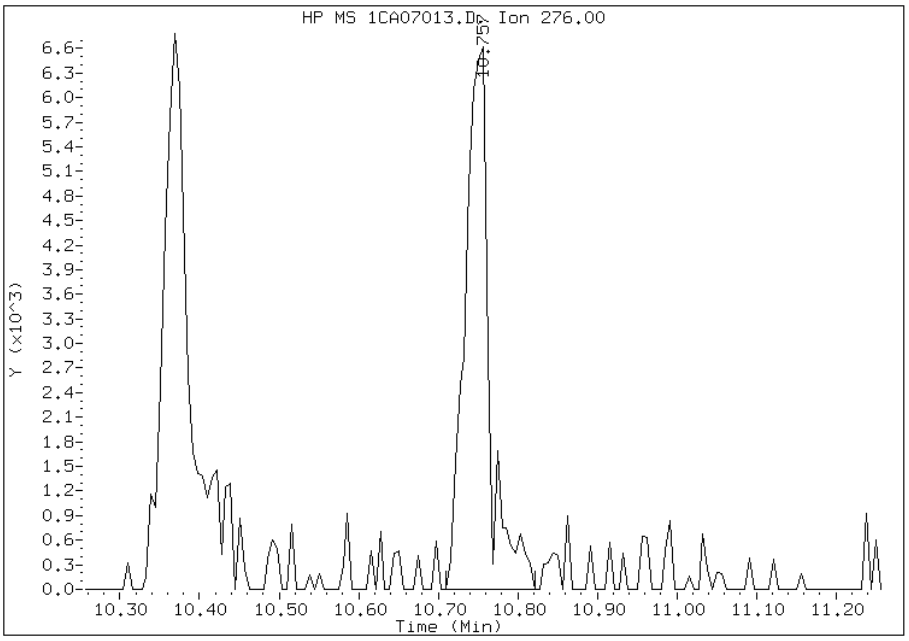
Manual Integration Results

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

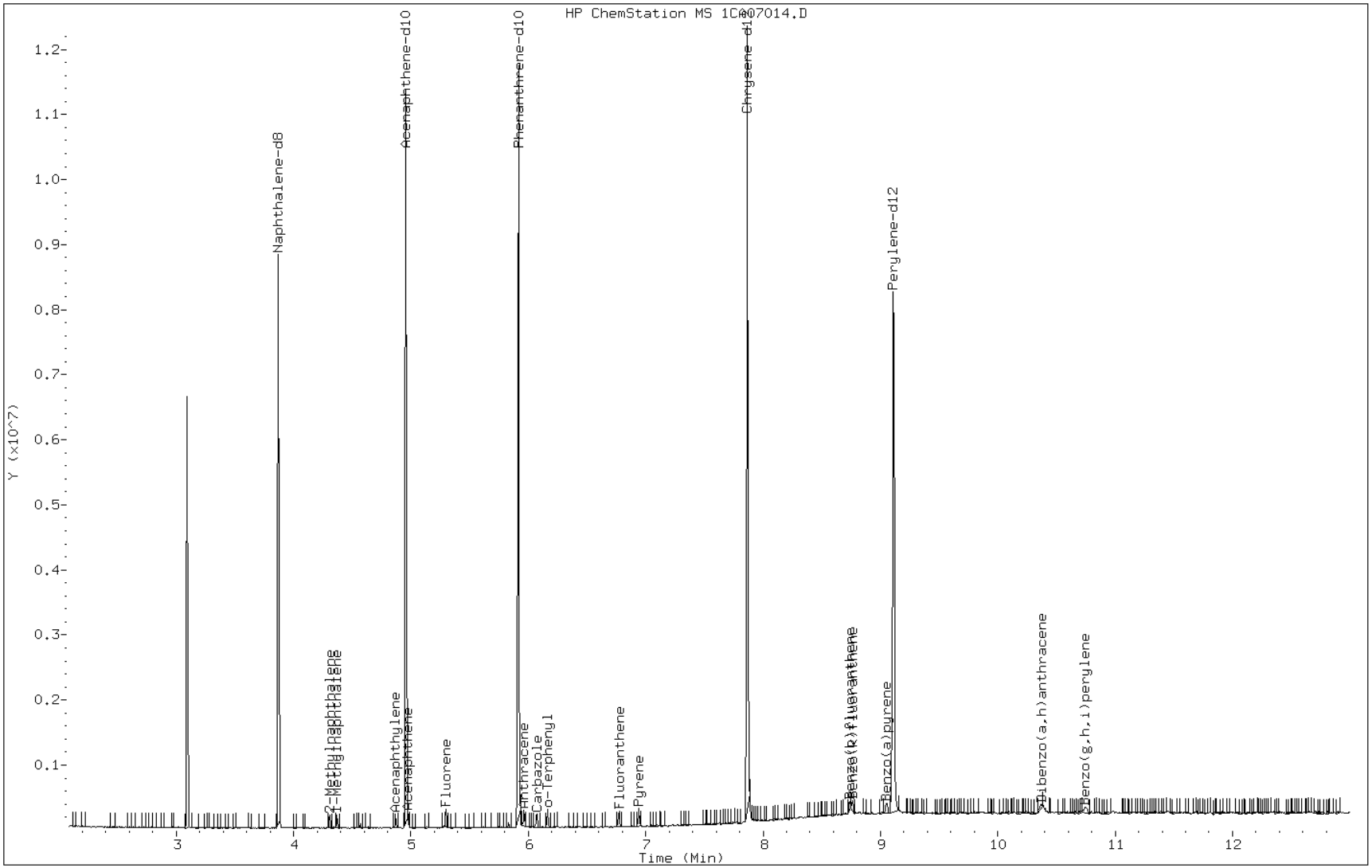
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

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

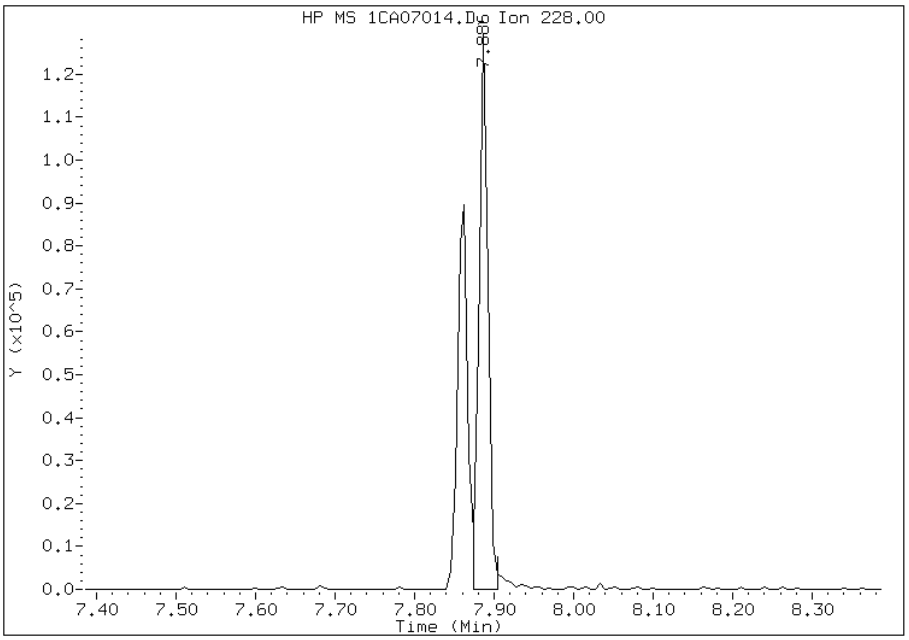
Processing Integration Results

RT: 7.89

Response: 101100

Amount: 1

Conc: 1



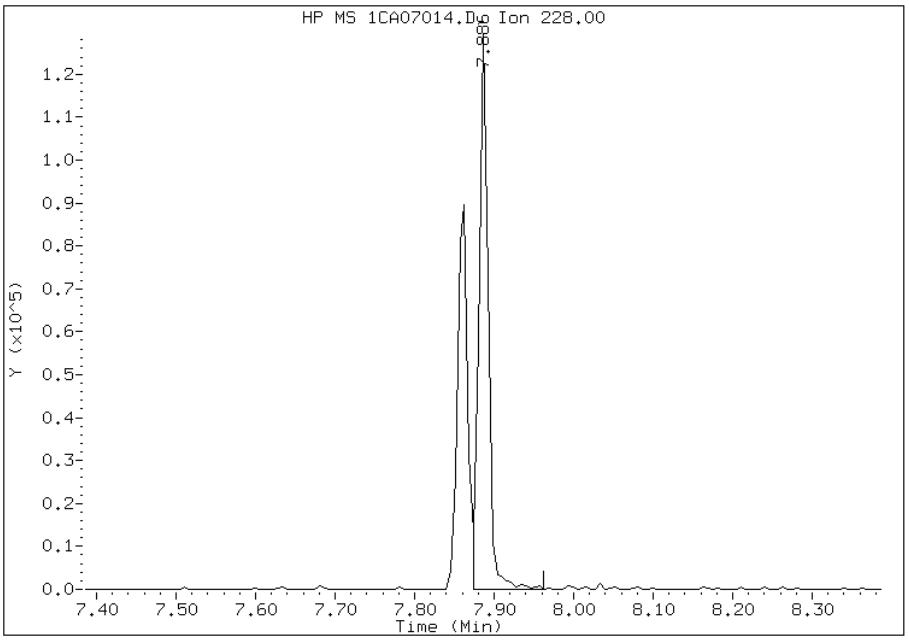
Manual Integration Results

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

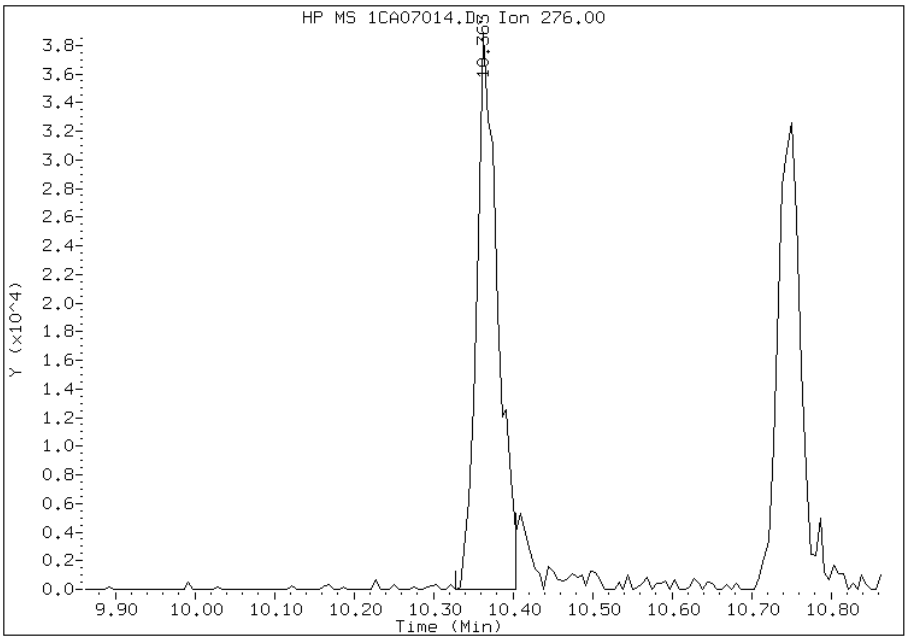
Processing Integration Results

RT: 10.36

Response: 72270

Amount: 1

Conc: 1



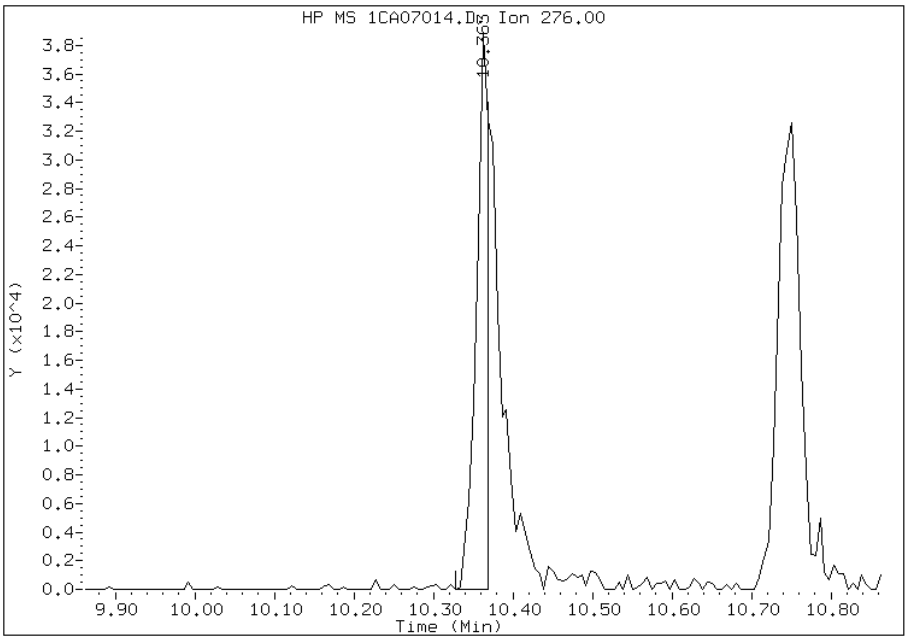
Manual Integration Results

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

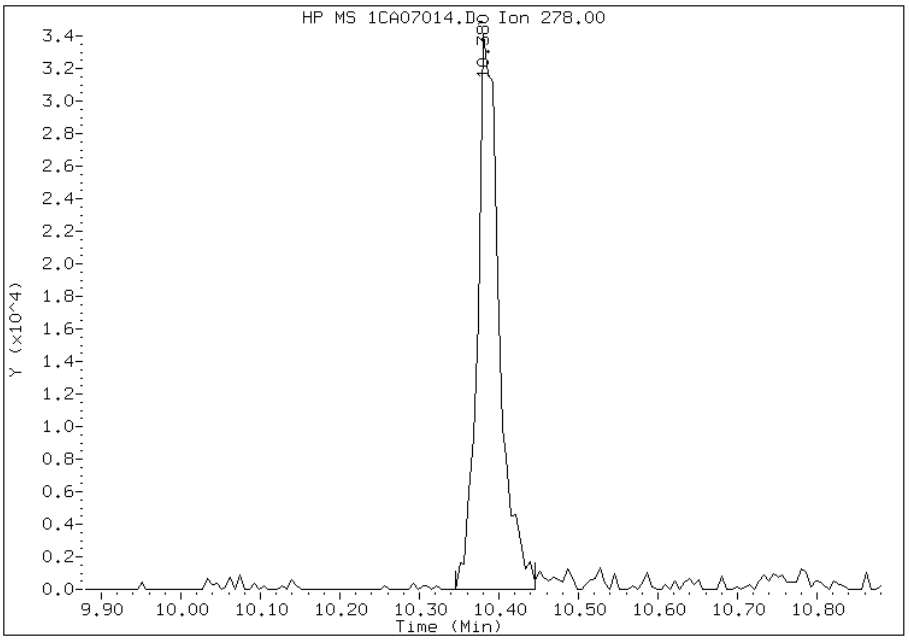
Processing Integration Results

RT: 10.38

Response: 65243

Amount: 1

Conc: 1



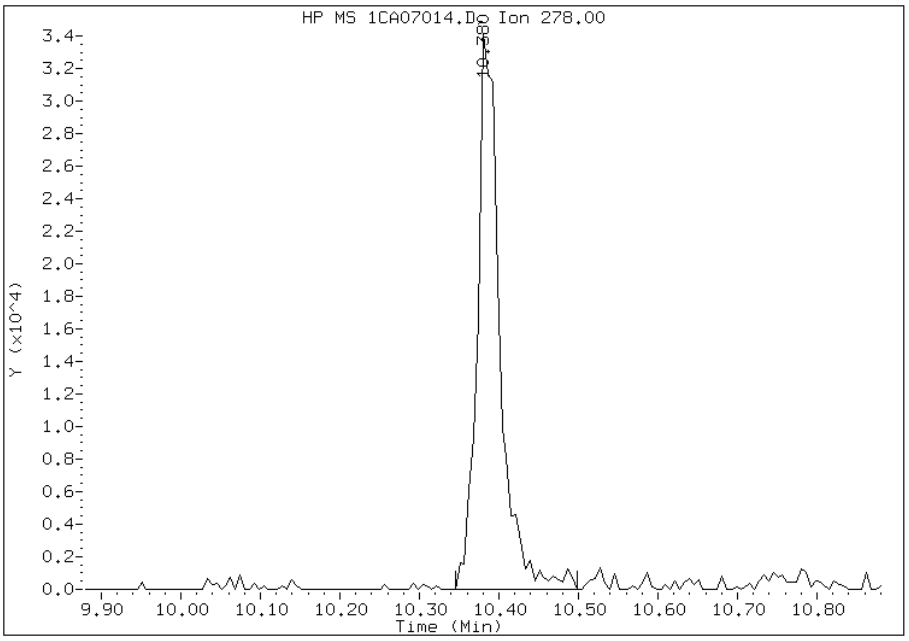
Manual Integration Results

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

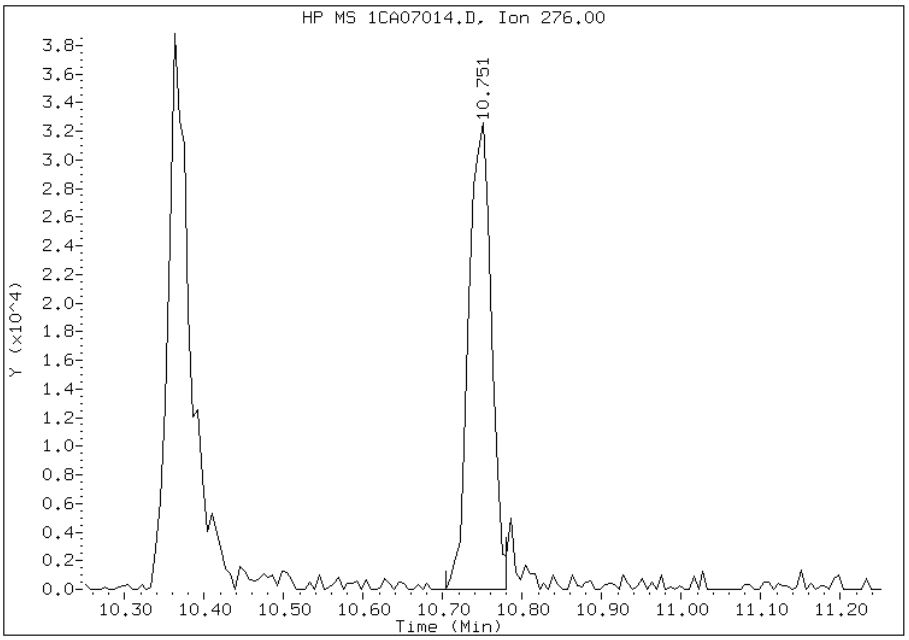
Processing Integration Results

RT: 10.75

Response: 64475

Amount: 1

Conc: 1



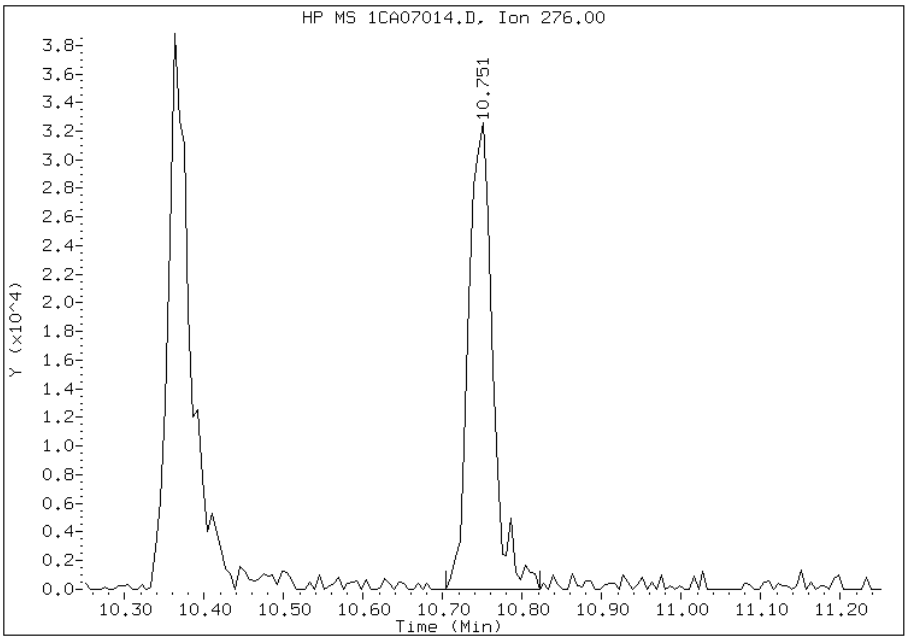
Manual Integration Results

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

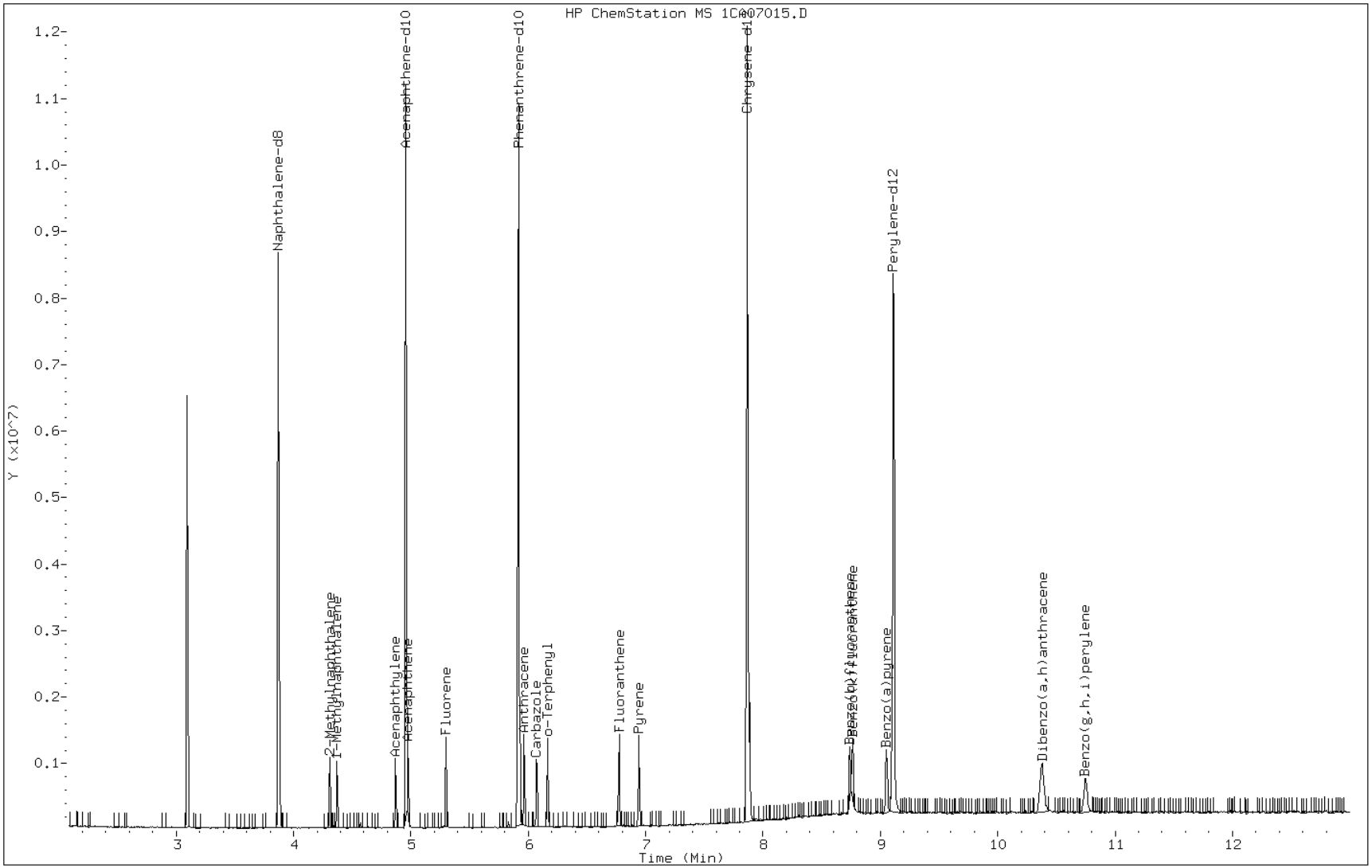
M - Compound response manually integrated.

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

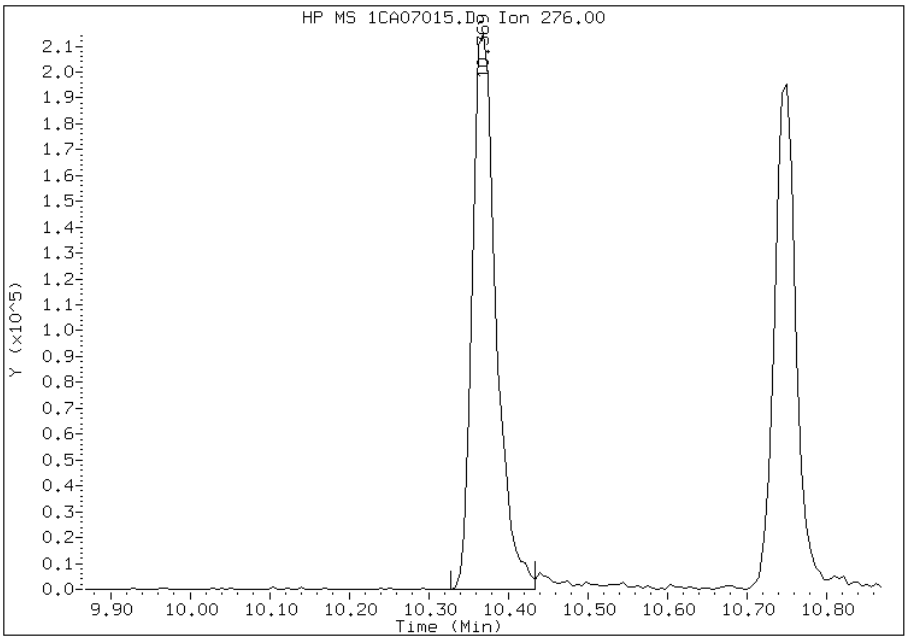
Processing Integration Results

RT: 10.37

Response: 445493

Amount: 6

Conc: 6



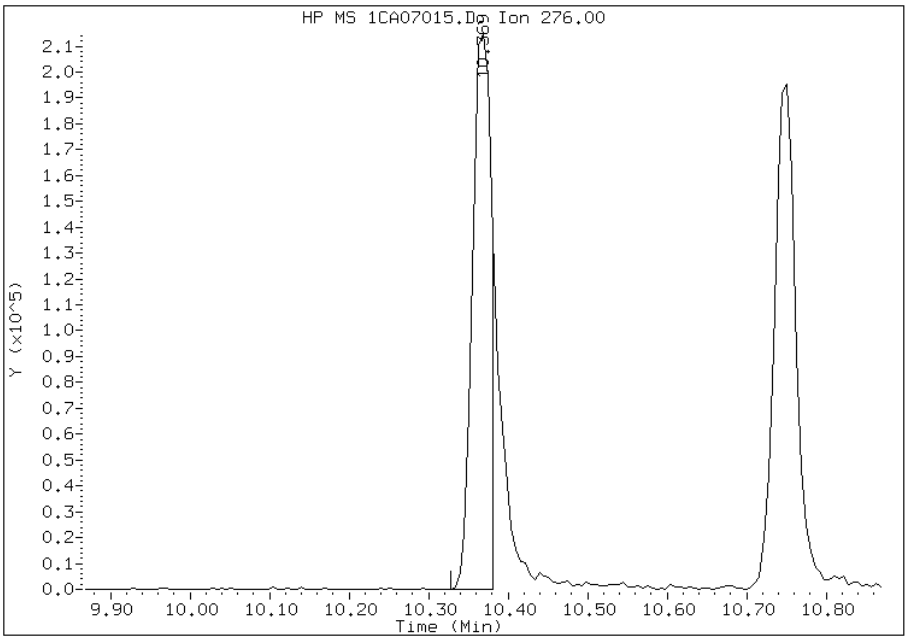
Manual Integration Results

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

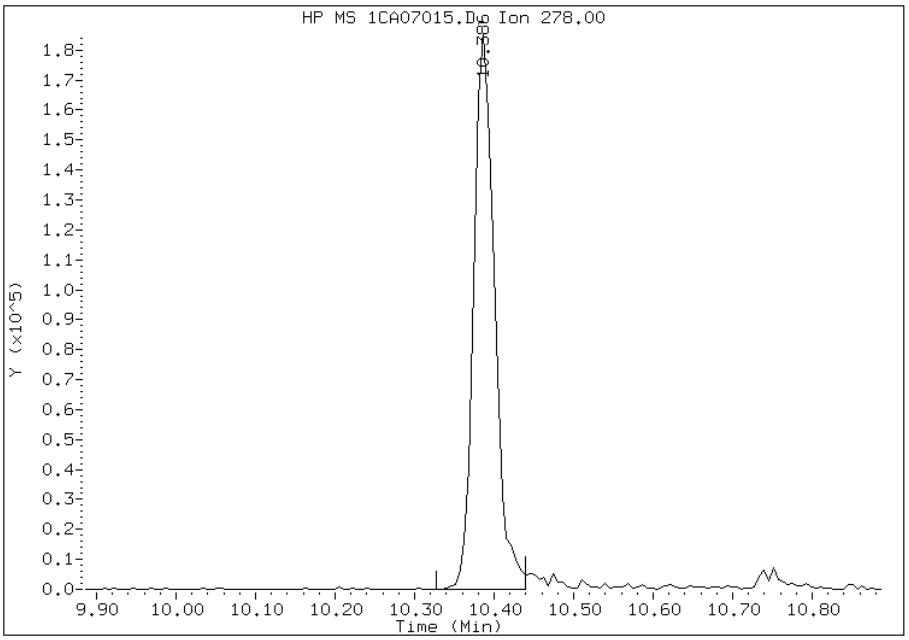
Processing Integration Results

RT: 10.39

Response: 335936

Amount: 5

Conc: 5



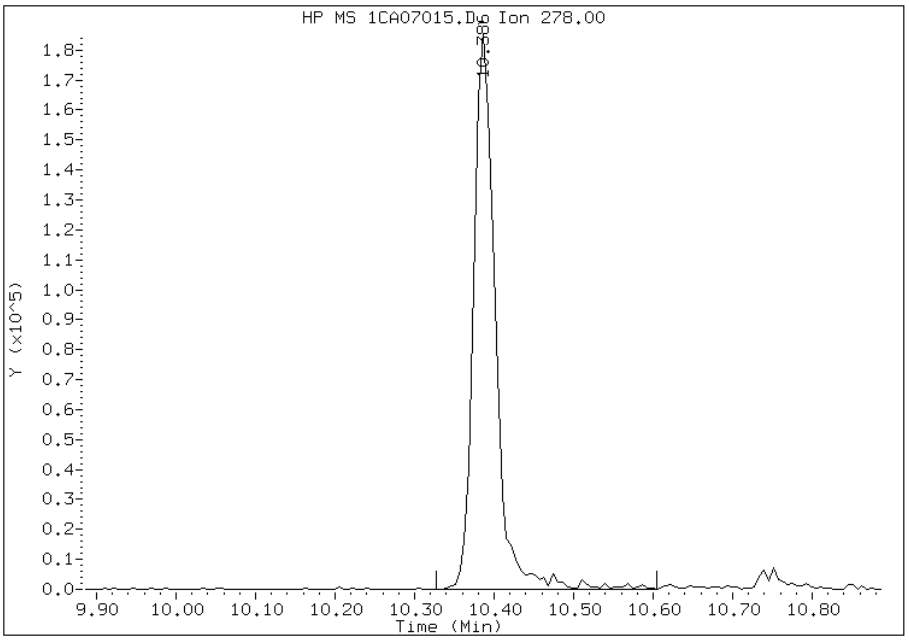
Manual Integration Results

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

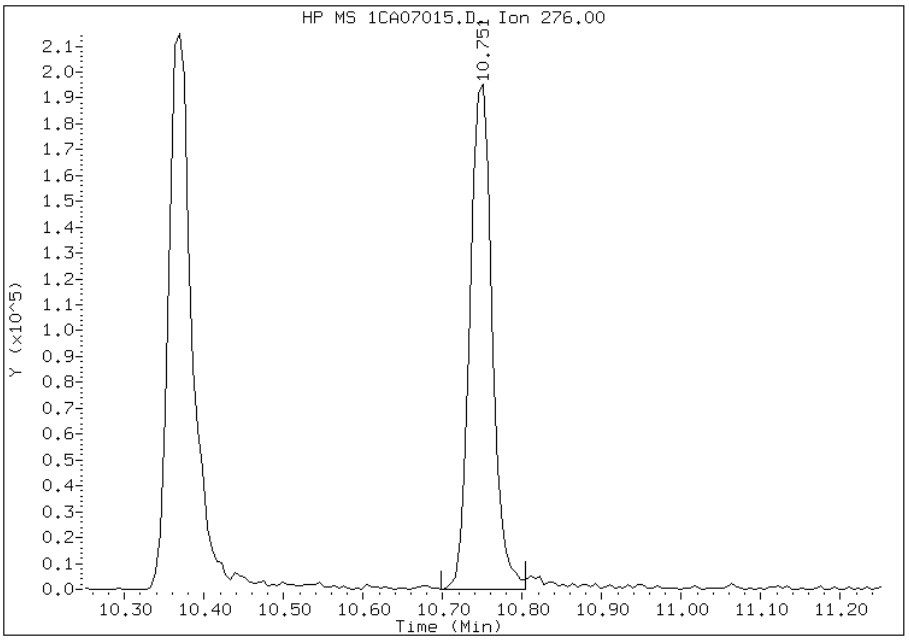
Processing Integration Results

RT: 10.75

Response: 377997

Amount: 5

Conc: 5



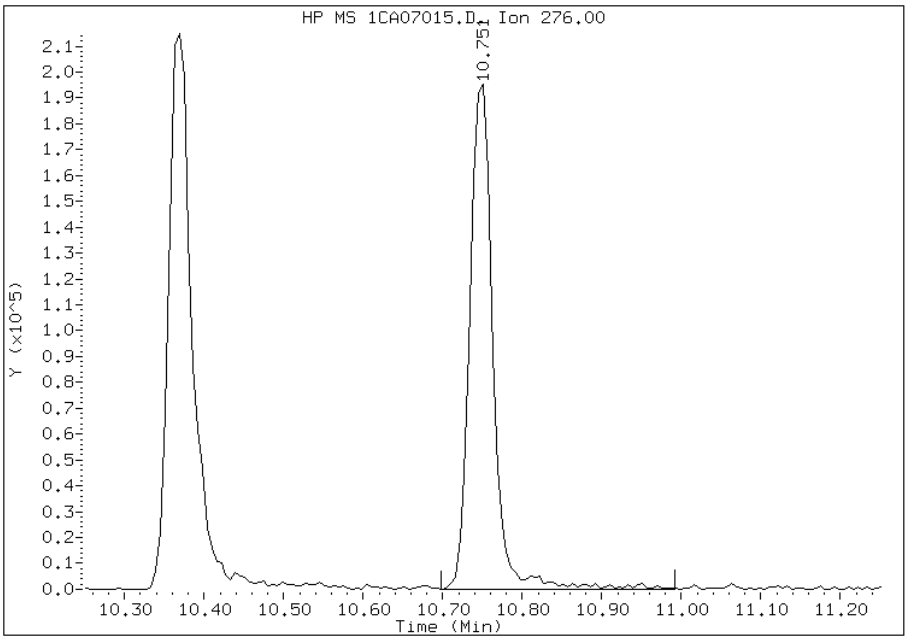
Manual Integration Results

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

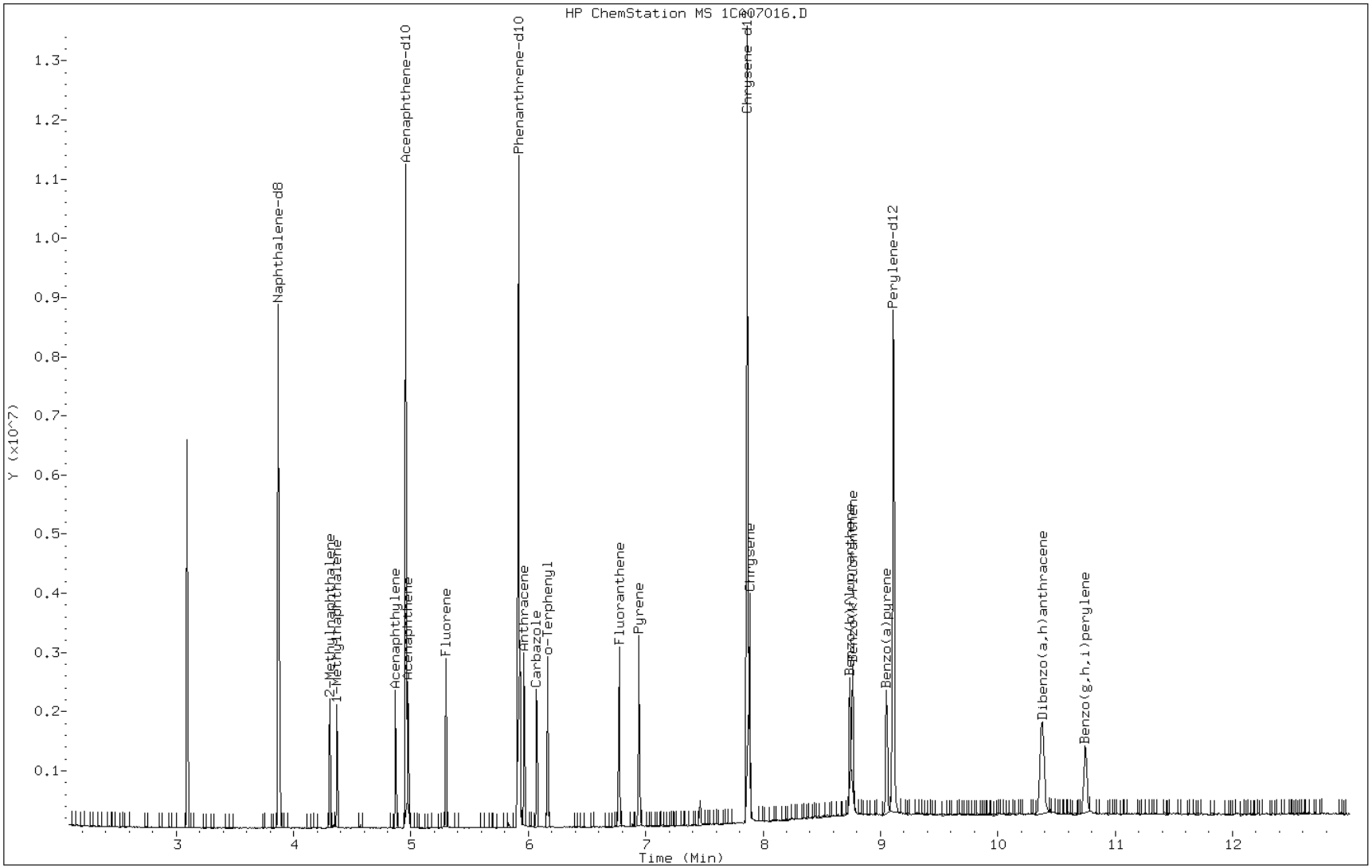
M - Compound response manually integrated.

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

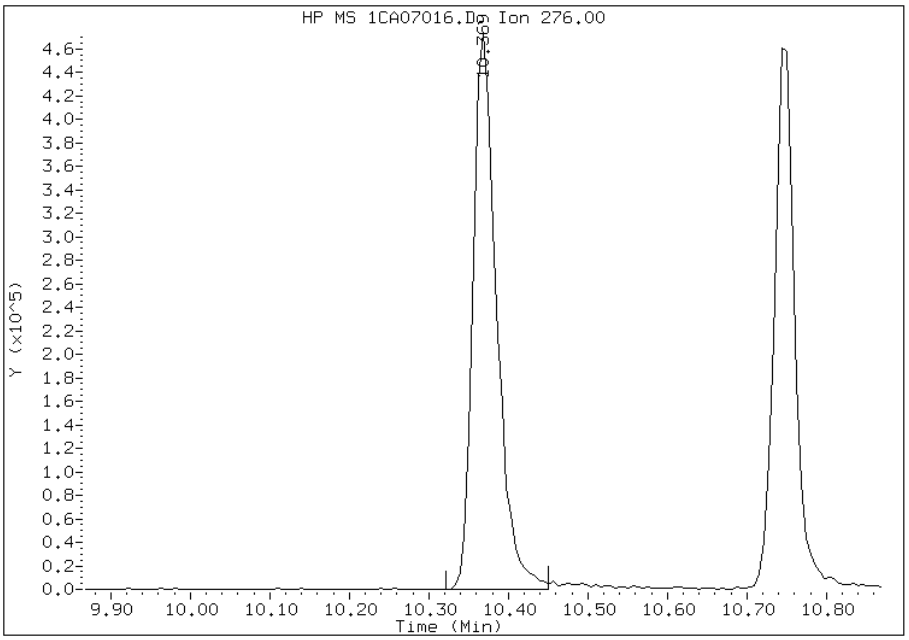
Processing Integration Results

RT: 10.37

Response: 970985

Amount: 12

Conc: 12



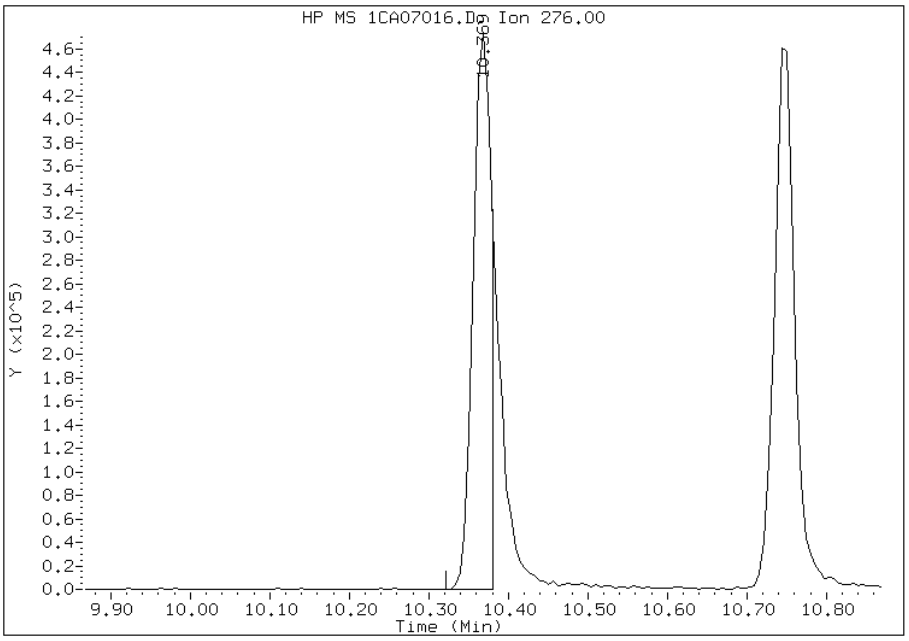
Manual Integration Results

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

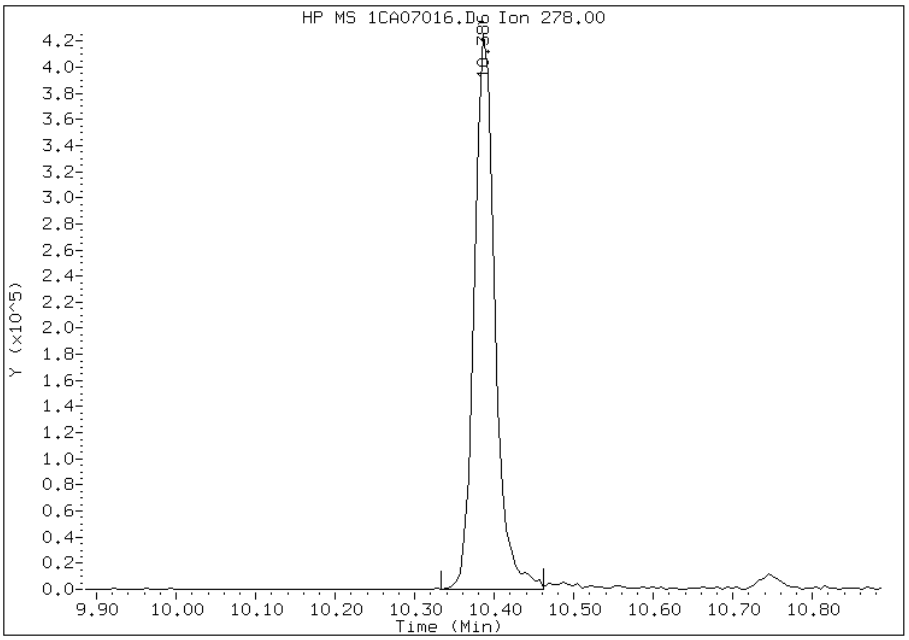
Processing Integration Results

RT: 10.39

Response: 764351

Amount: 10

Conc: 10



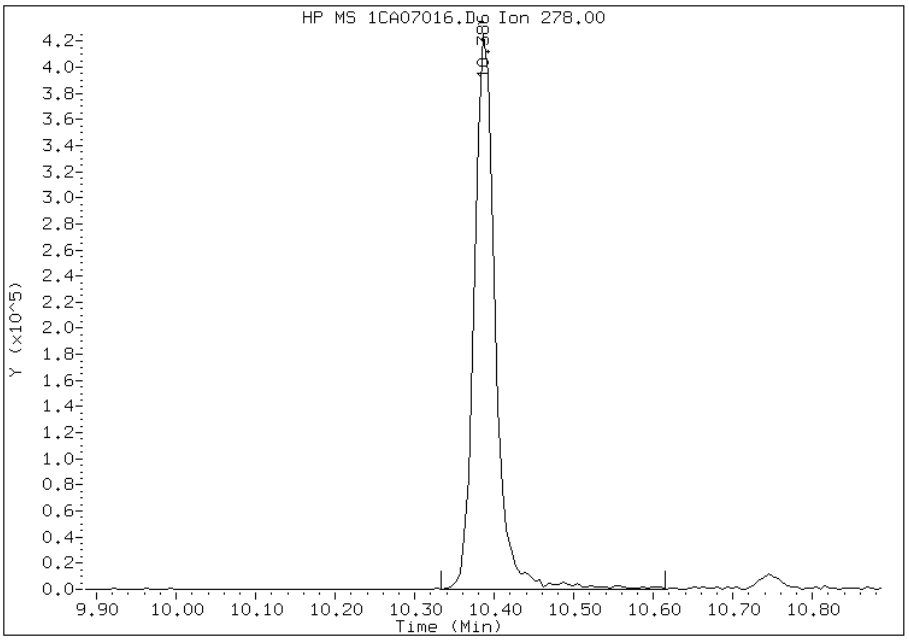
Manual Integration Results

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

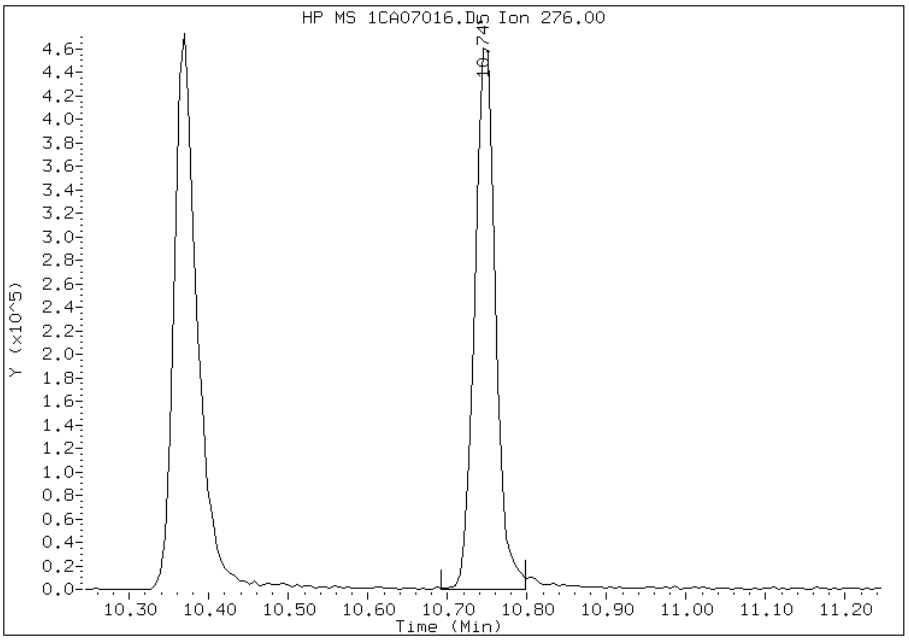
Processing Integration Results

RT: 10.74

Response: 835718

Amount: 10

Conc: 10



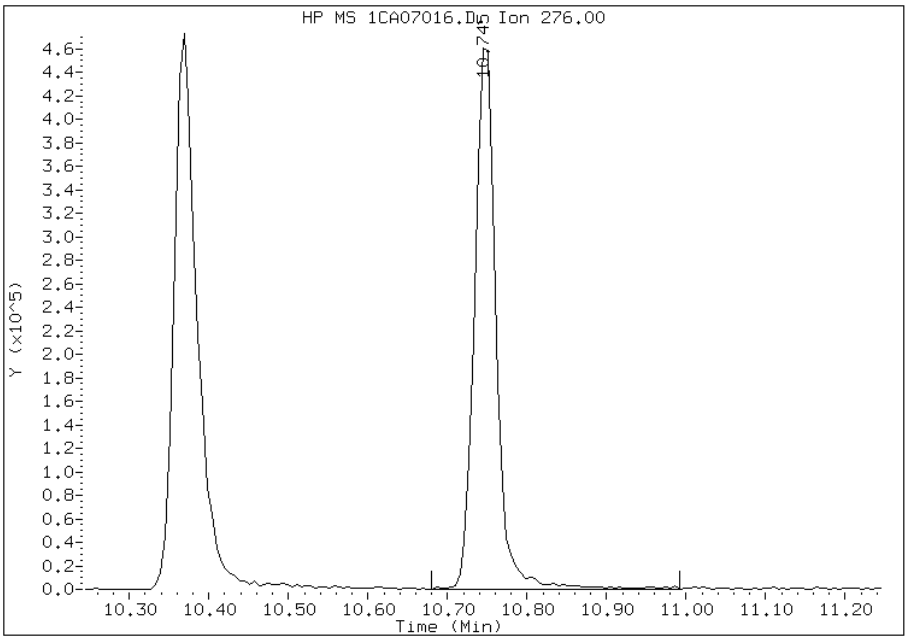
Manual Integration Results

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

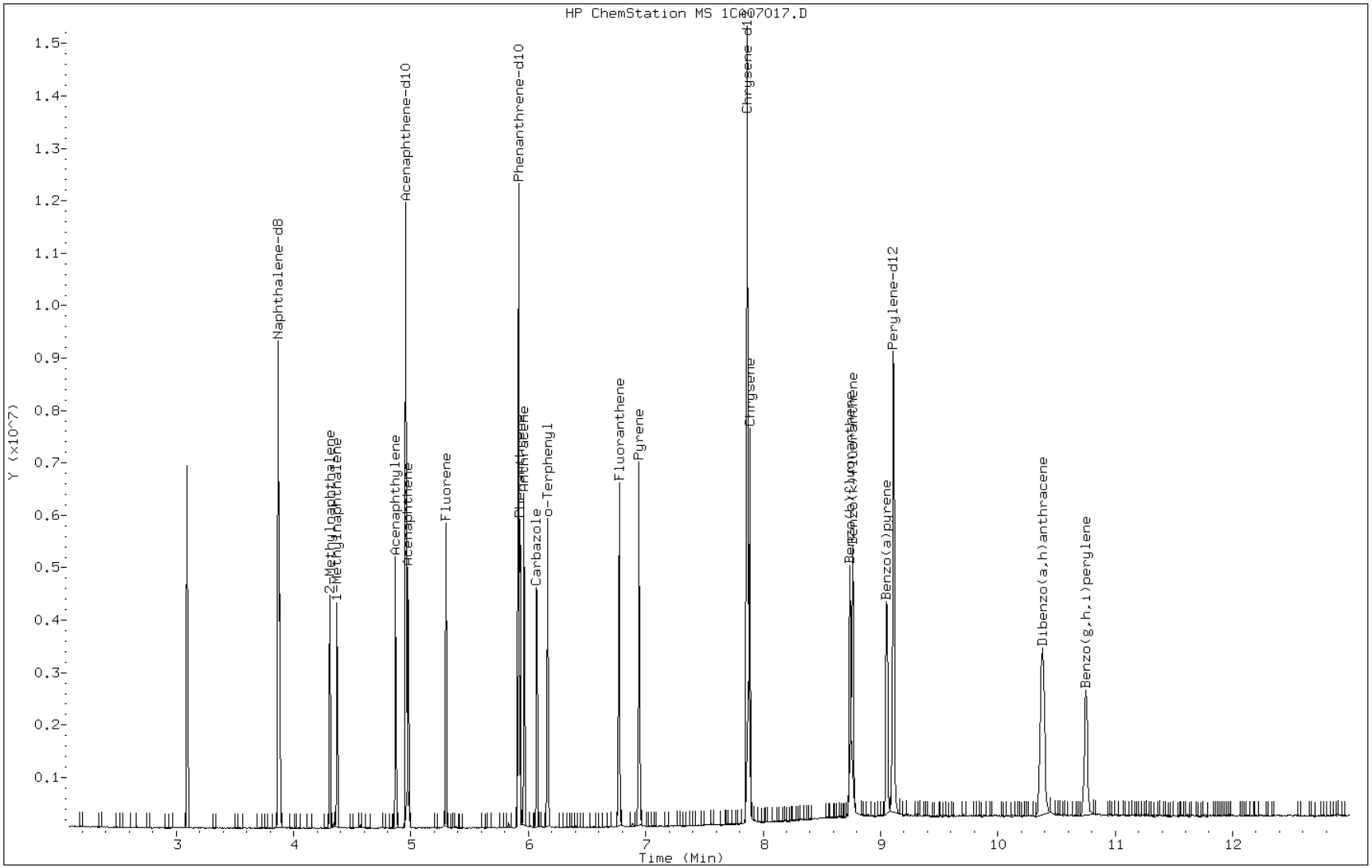
M - Compound response manually integrated.

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

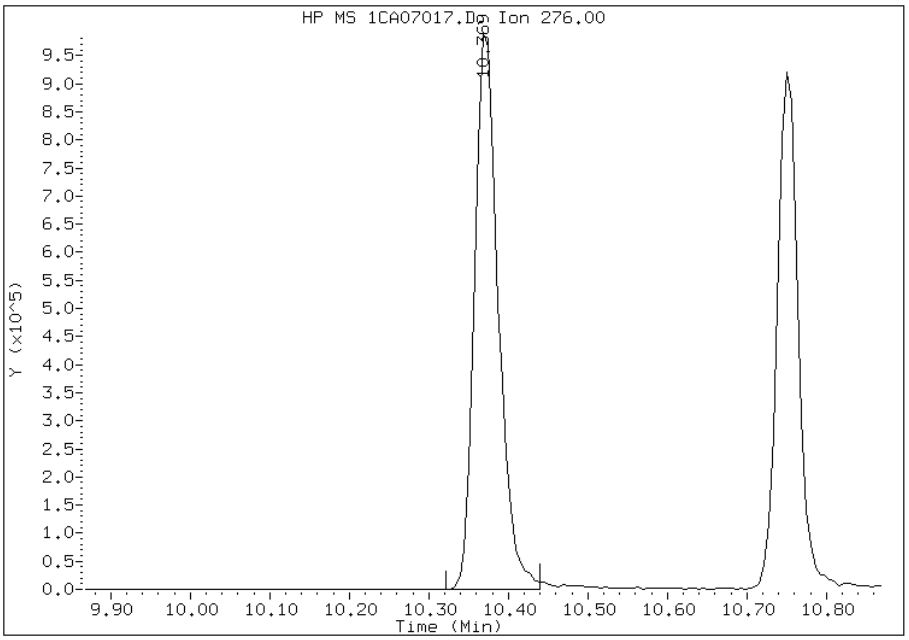
Processing Integration Results

RT: 10.37

Response: 2044337

Amount: 23

Conc: 23



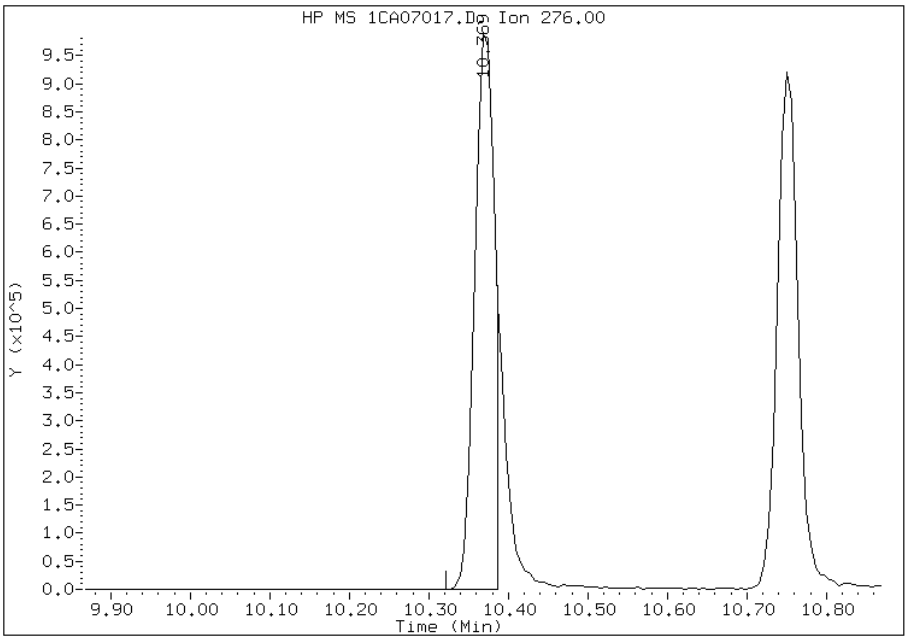
Manual Integration Results

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

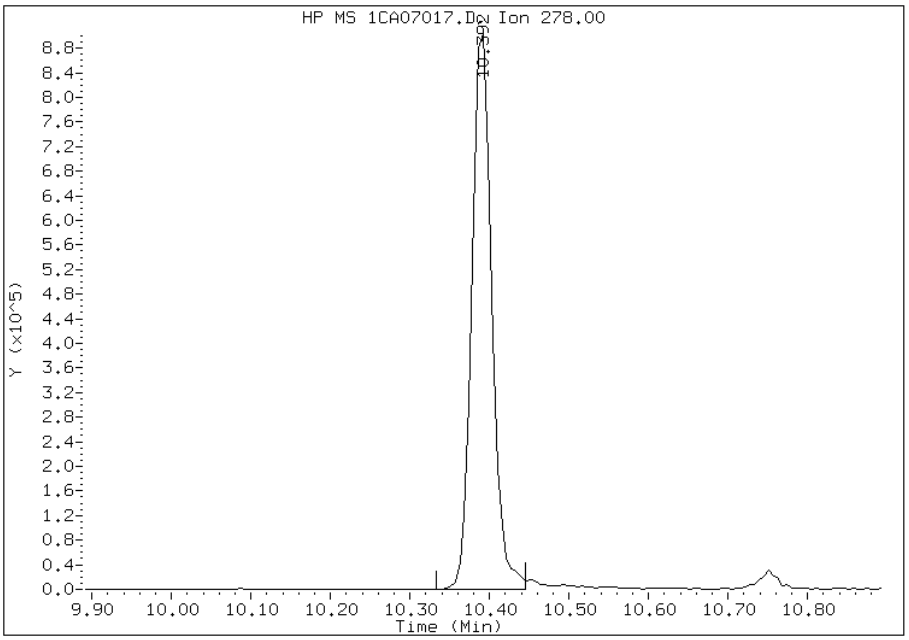
Processing Integration Results

RT: 10.39

Response: 1569221

Amount: 19

Conc: 19



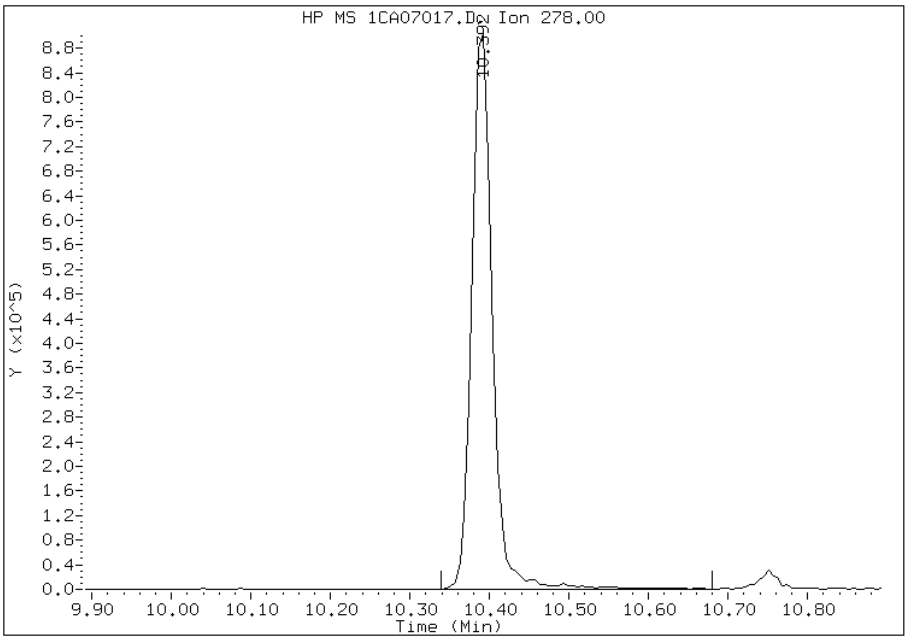
Manual Integration Results

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

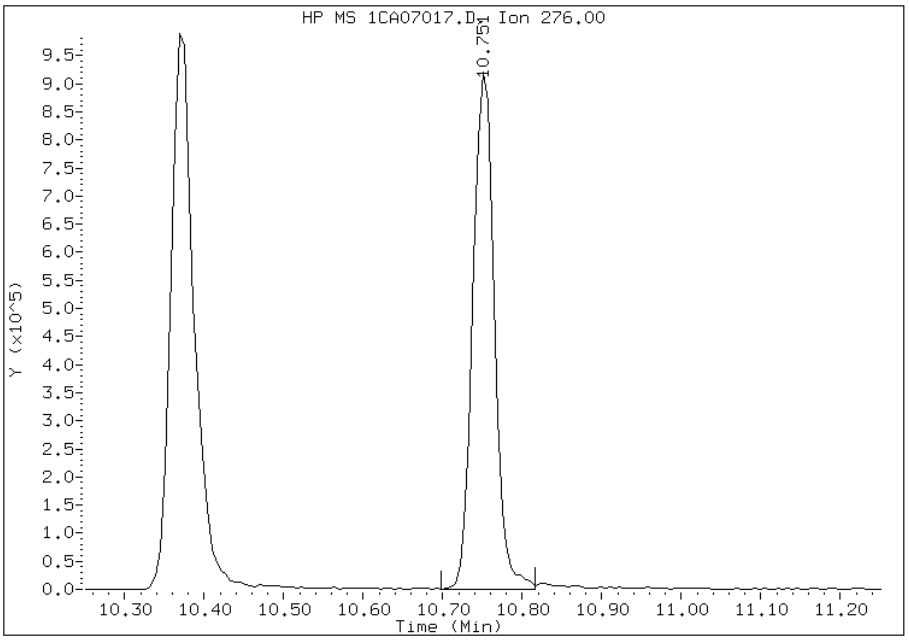
Processing Integration Results

RT: 10.75

Response: 1711397

Amount: 19

Conc: 19



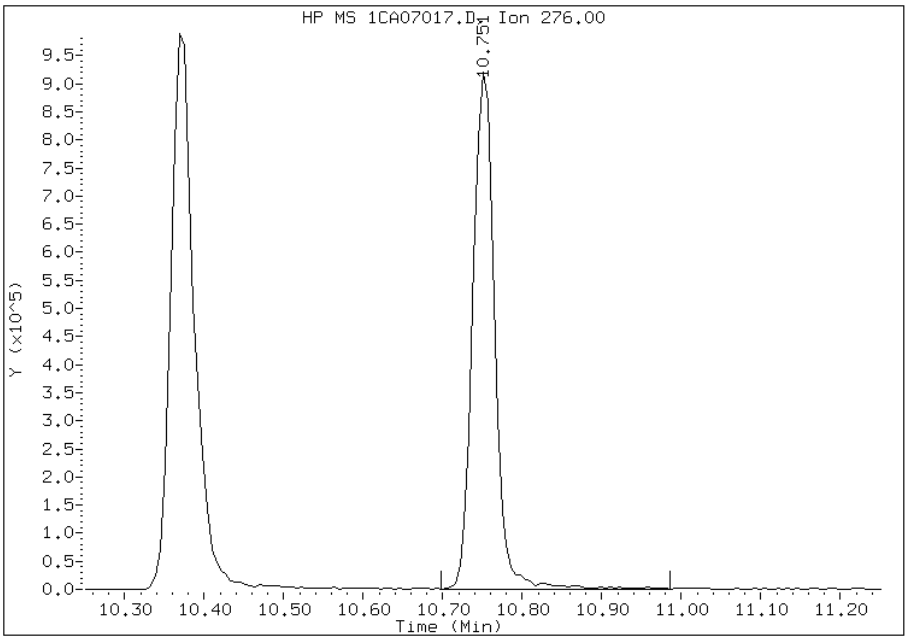
Manual Integration Results

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

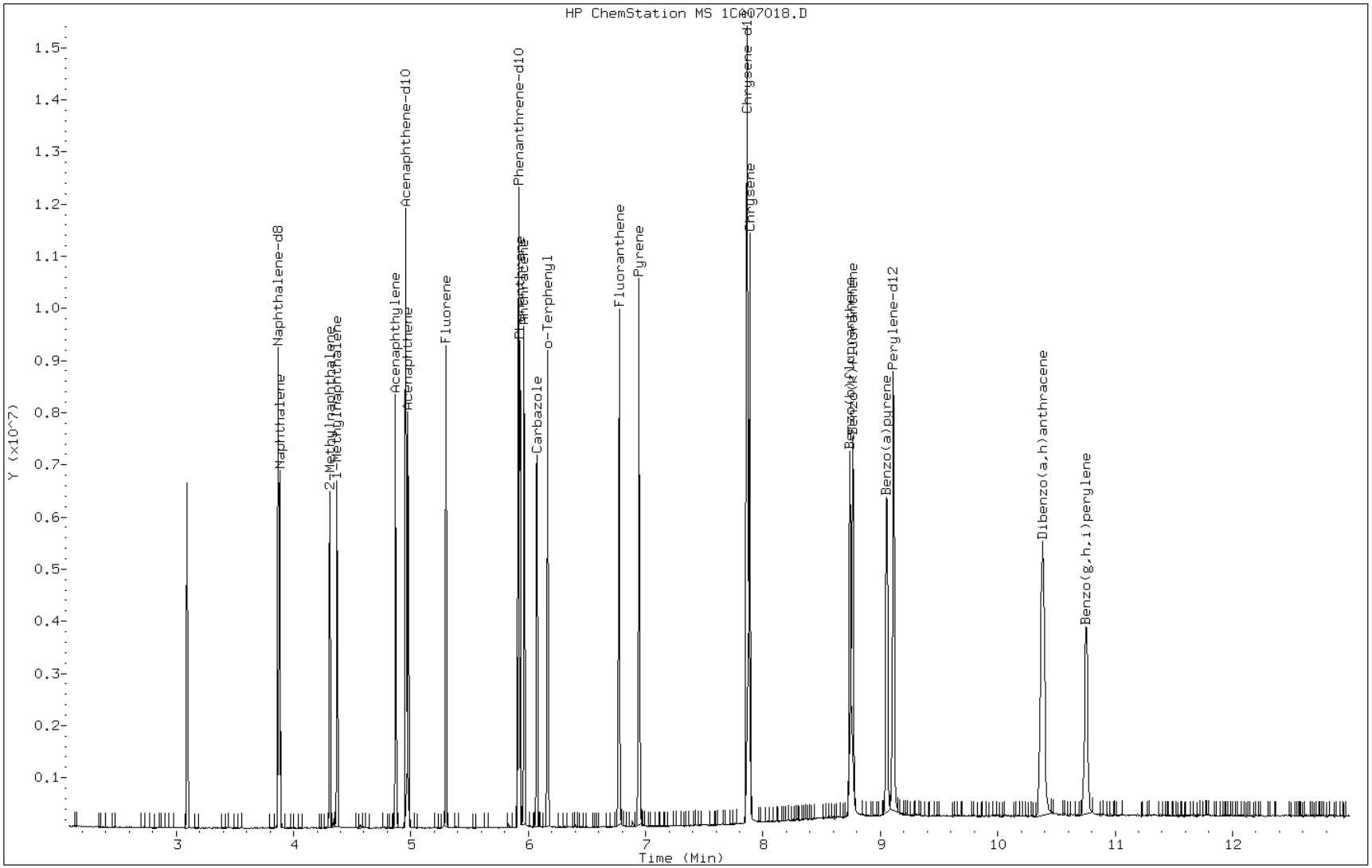
Date: 07-JAN-2013 16:54

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

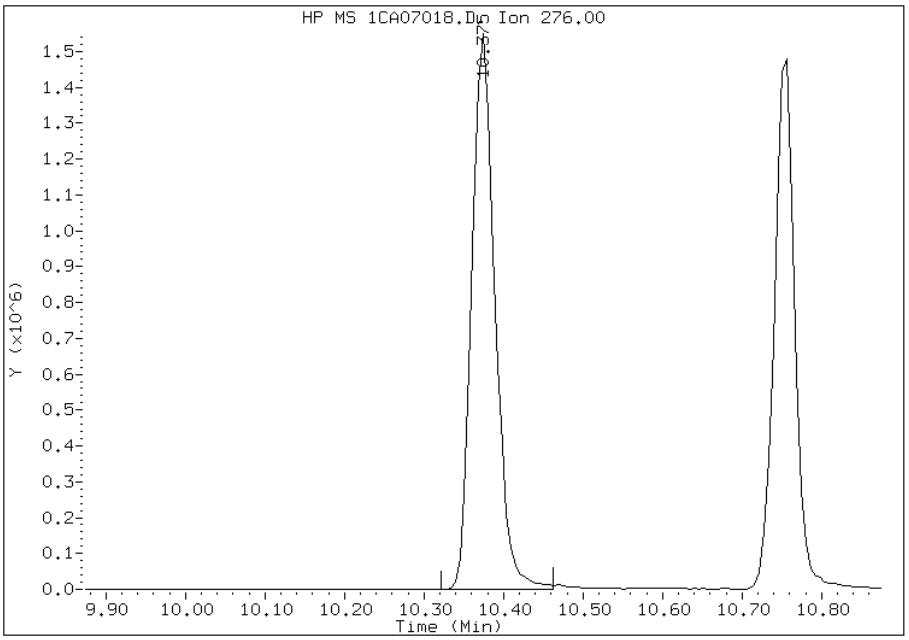
Processing Integration Results

RT: 10.37

Response: 3123860

Amount: 35

Conc: 35



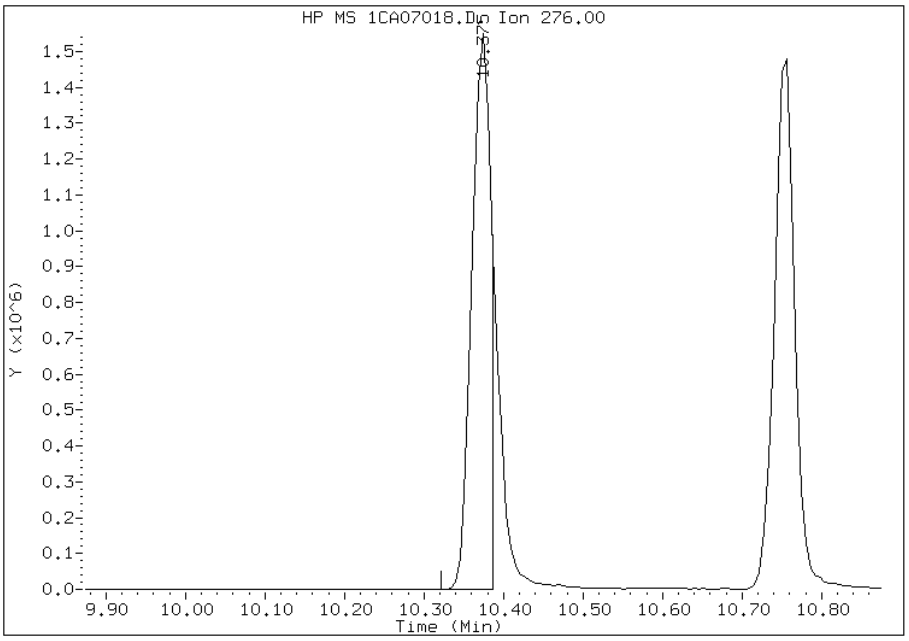
Manual Integration Results

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

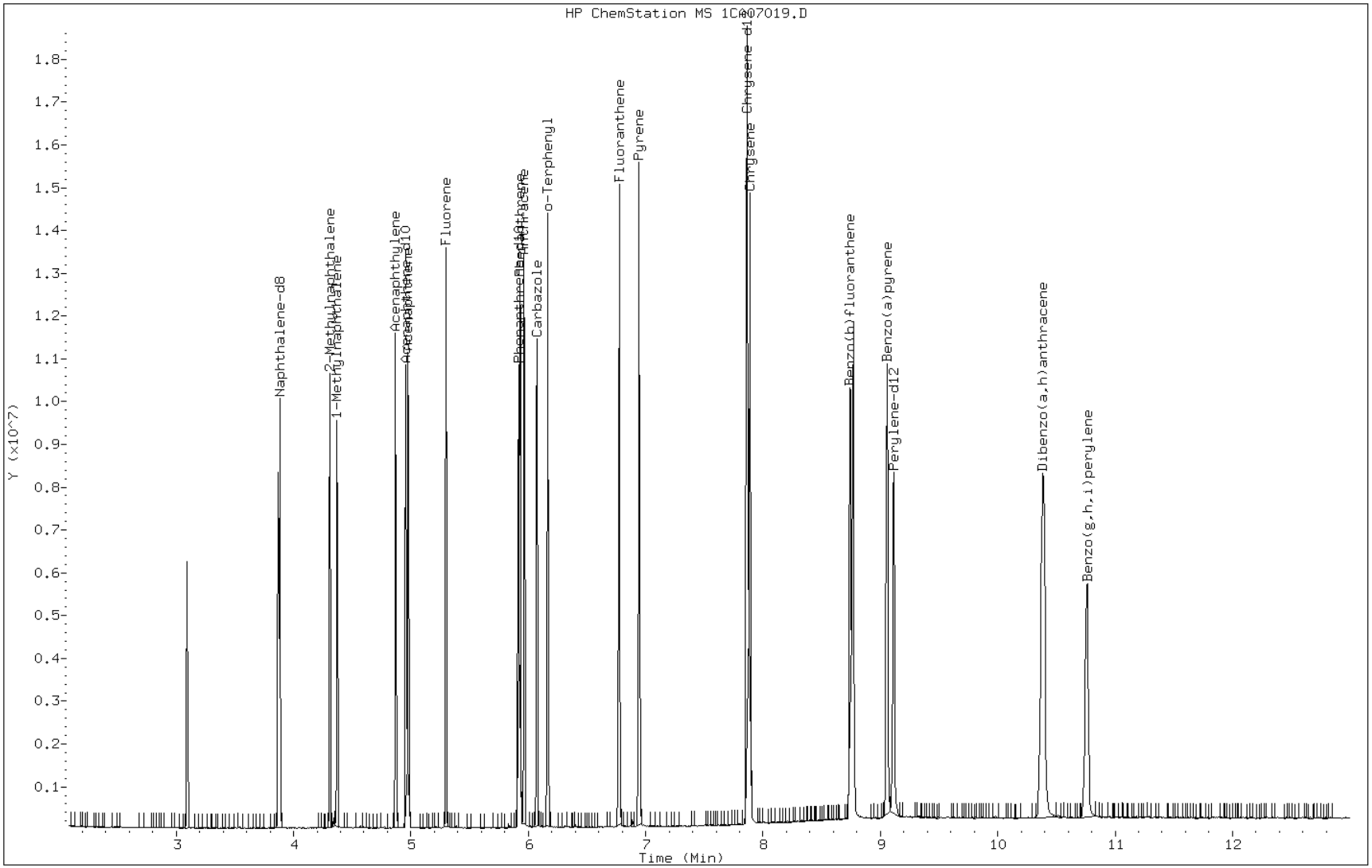
Date: 07-JAN-2013 17:13

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

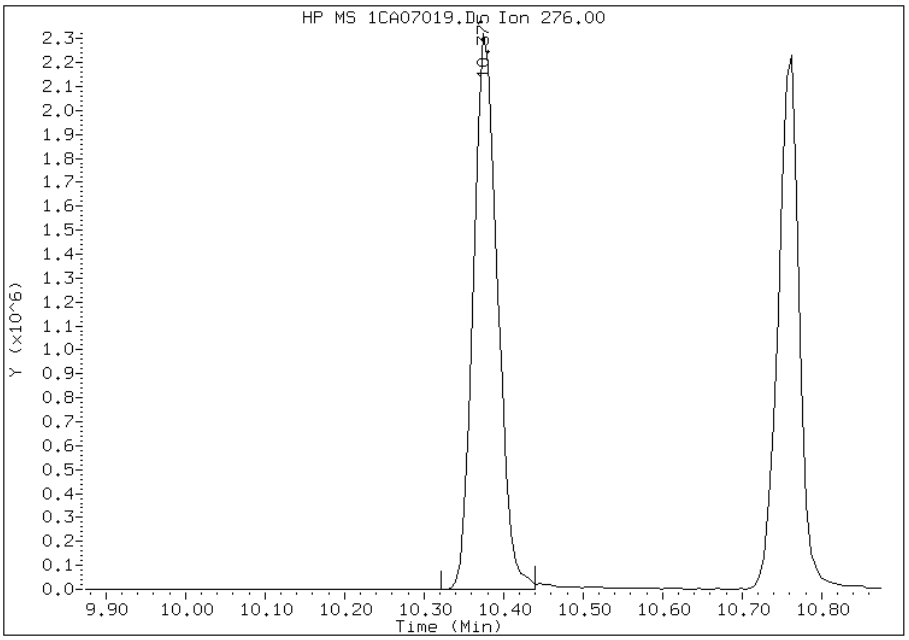
Processing Integration Results

RT: 10.37

Response: 4872897

Amount: 57

Conc: 57



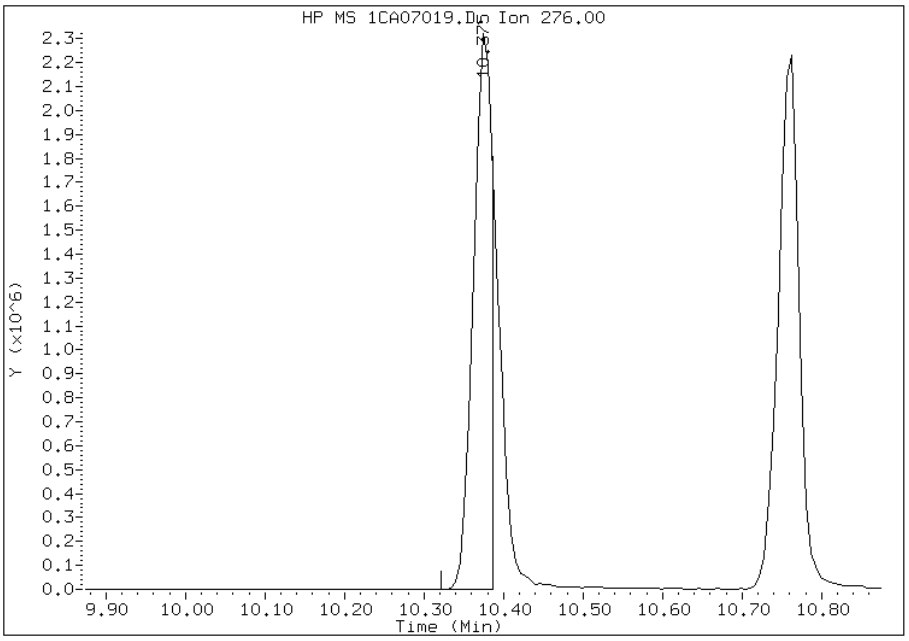
Manual Integration Results

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.: 680-87320-1

SDG No.: 68087320-1

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

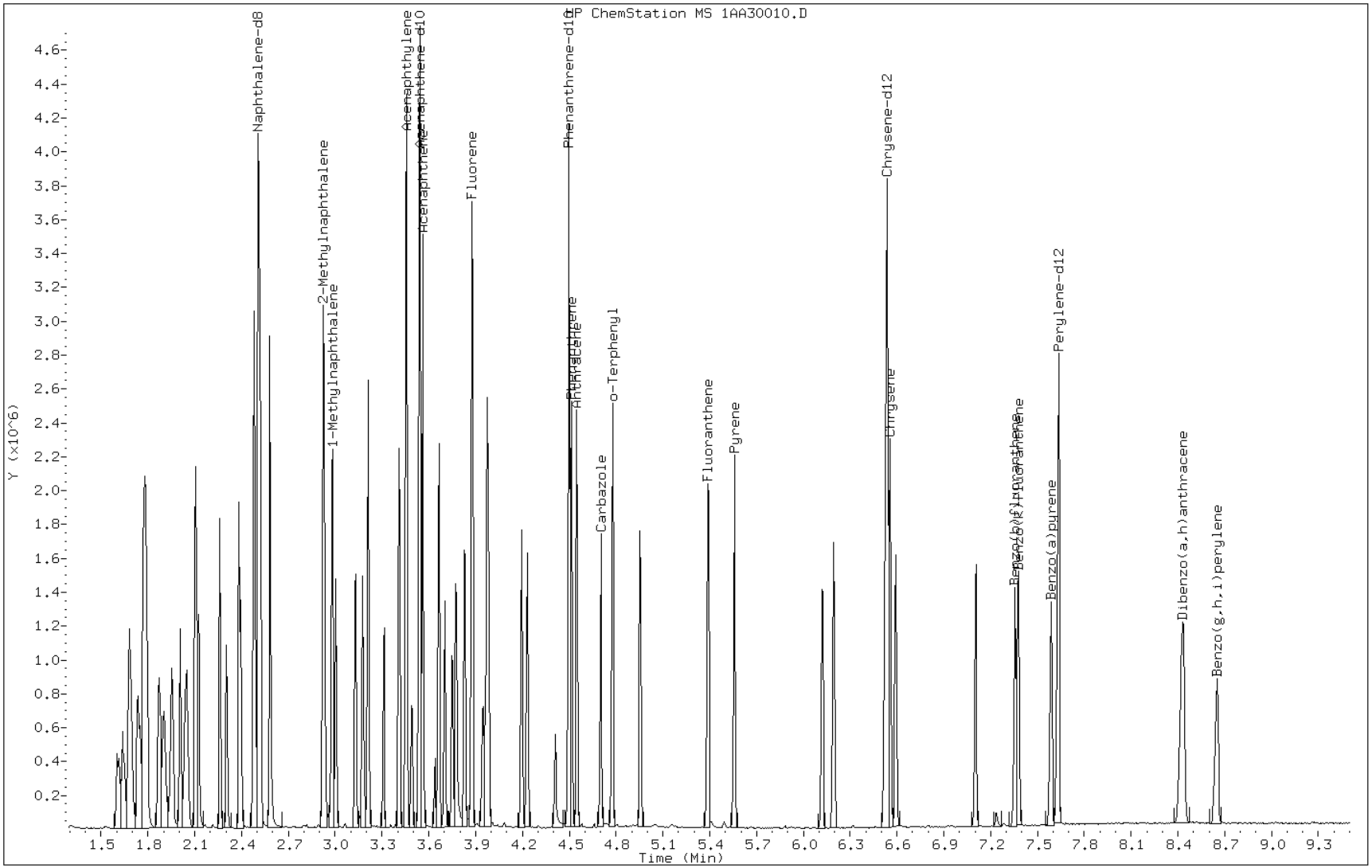
M - Compound response manually integrated.

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

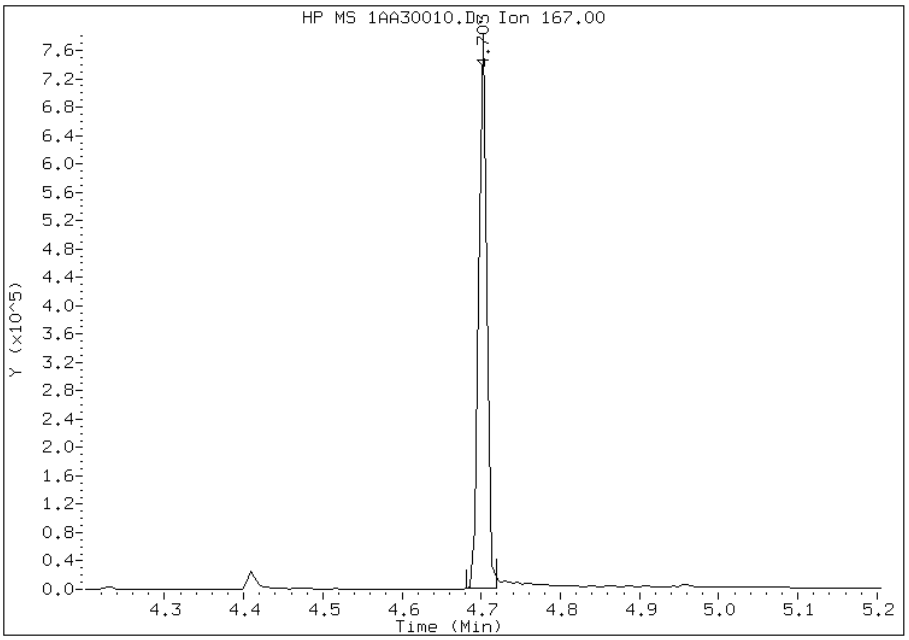
Processing Integration Results

RT: 4.70

Response: 529890

Amount: 17

Conc: 17



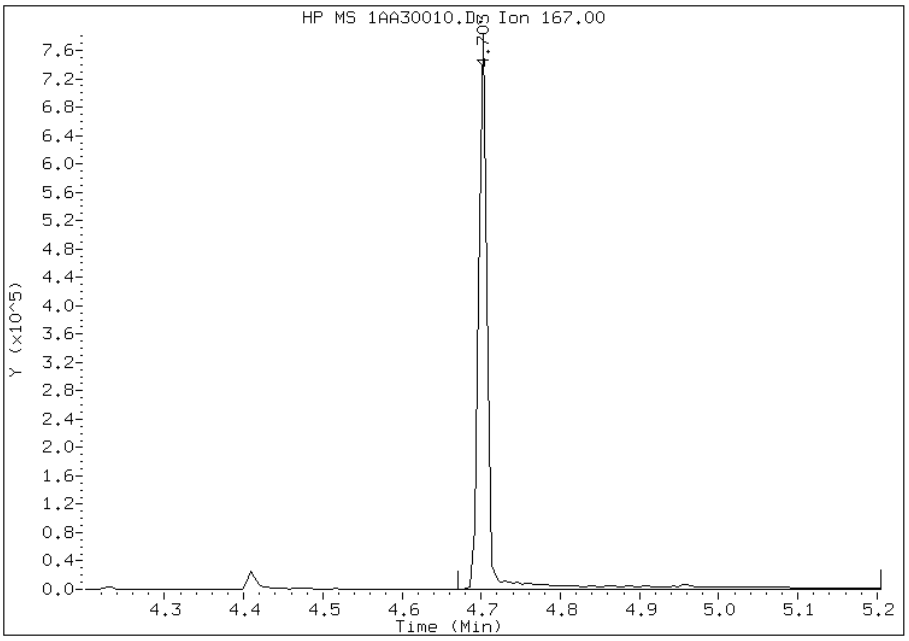
Manual Integration Results

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

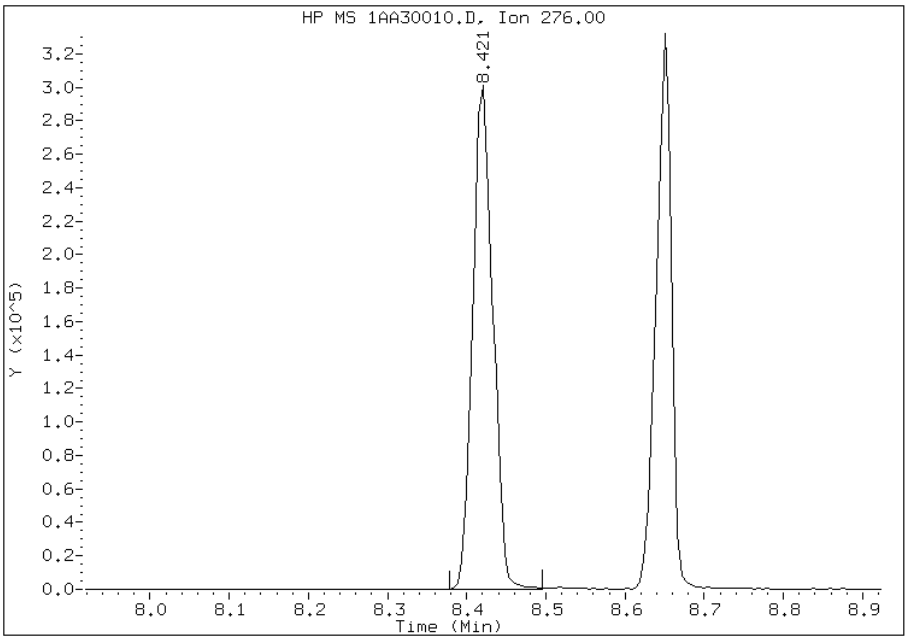
Processing Integration Results

RT: 8.42

Response: 525230

Amount: 26

Conc: 26



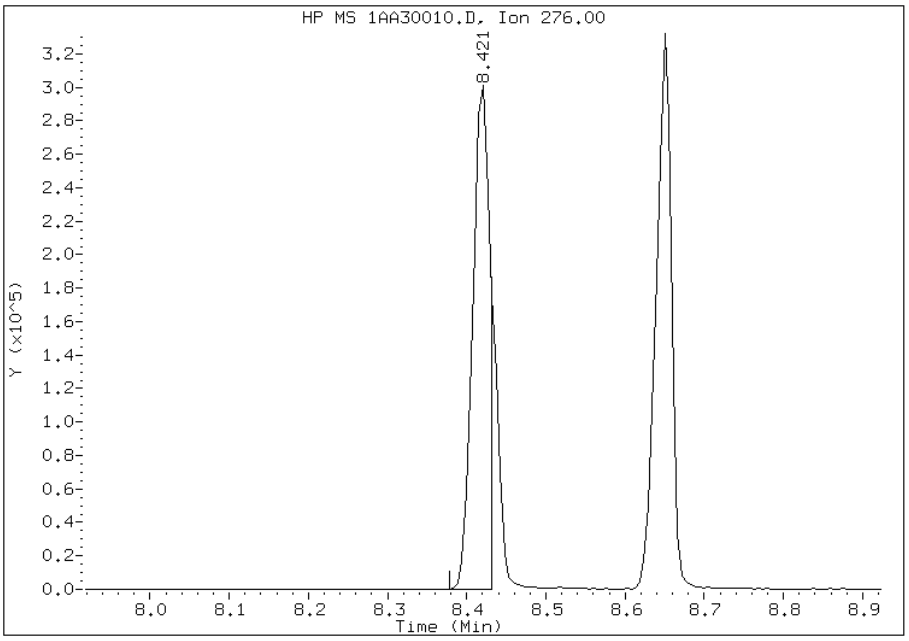
Manual Integration Results

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.: 680-87320-1

SDG No.: 68087320-1

Lab Sample ID: CCVIS 660-134679/3 Calibration Date: 02/19/2013 10:52

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: 1AB19003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9709	0.9051	0.0000	18600	20000	-6.8	20.0
2-Methylnaphthalene	Ave	0.5201	0.4691	0.0000	18000	20000	-9.8	20.0
1-Methylnaphthalene	Ave	0.5888	0.5286	0.0000	18000	20000	-10.2	20.0
Acenaphthylene	Ave	1.766	1.535	0.0000	17400	20000	-13.1	20.0
Acenaphthene	Ave	0.9559	0.8236	0.0000	17200	20000	-13.8	20.0
Fluorene	Ave	1.202	1.084	0.0000	18000	20000	-9.8	20.0
Phenanthrene	Ave	1.092	0.9833	0.0000	18000	20000	-10.0	20.0
Anthracene	Ave	1.114	0.9828	0.0000	17700	20000	-11.7	20.0
Carbazole	Ave	0.9545	0.8342	0.0000	17500	20000	-12.6	20.0
Fluoranthene	Ave	1.083	0.9915	0.0000	18300	20000	-8.4	20.0
Pyrene	Ave	1.445	1.234	0.0000	17100	20000	-14.5	20.0
Benzo[a]anthracene	LinF	1.313	1.123	0.0000	18800	20000	-6.0	20.0
Chrysene	Ave	1.164	0.998	0.0000	17200	20000	-14.2	20.0
Benzo[b]fluoranthene	Ave	1.116	1.070	0.0000	19200	20000	-4.2	20.0
Benzo[k]fluoranthene	Ave	1.167	0.9613	0.0000	16500	20000	-17.6	20.0
Benzo[a]pyrene	Ave	1.060	0.9417	0.0000	17800	20000	-11.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8371	0.9038	0.0000	21600	20000	8.0	20.0
Dibenz(a,h)anthracene	Ave	0.8369	0.8178	0.0000	19500	20000	-2.3	20.0
Benzo[g,h,i]perylene	Ave	0.8673	0.8200	0.0000	18900	20000	-5.4	20.0
o-Terphenyl	Ave	0.5812	0.5418	0.0000	18600	20000	-6.8	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\1AB19003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 19-FEB-2013 10:52
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 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)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.405	2.405	(1.000)	1212726	40.0000	(H)
* 6 Acenaphthene-d10	164	3.431	3.431	(1.000)	729976	40.0000	(H)
* 10 Phenanthrene-d10	188	4.371	4.371	(1.000)	1097330	40.0000	(H)
$ 14 o-Terphenyl	230	4.649	4.649	(1.064)	297262	20.0000	18.6432
* 18 Chrysene-d12	240	6.390	6.390	(1.000)	935352	40.0000	(H)
* 23 Perylene-d12	264	7.480	7.480	(1.000)	932501	40.0000	(H)
2 Naphthalene	128	2.416	2.416	(1.004)	548816	20.0000	18.6445(H)
3 2-Methylnaphthalene	141	2.816	2.816	(1.171)	284418	20.0000	18.0361(H)
4 1-Methylnaphthalene	142	2.875	2.875	(1.195)	320495	20.0000	17.9541(H)
5 Acenaphthylene	152	3.345	3.345	(0.975)	560374	20.0000	17.3855(H)
7 Acenaphthene	154	3.447	3.447	(1.005)	300588	20.0000	17.2301(H)
9 Fluorene	166	3.757	3.757	(1.095)	395661	20.0000	18.0369(H)
11 Phenanthrene	178	4.387	4.387	(1.004)	539502	20.0000	18.0063(H)
12 Anthracene	178	4.419	4.419	(1.011)	539233	20.0000	17.6520(H)
13 Carbazole	167	4.574	4.574	(1.046)	457696	20.0000	17.4791(H)
15 Fluoranthene	202	5.247	5.247	(1.200)	544013	20.0000	18.3136(H)
16 Pyrene	202	5.413	5.413	(0.847)	577333	20.0000	17.0908(H)
17 Benzo(a)anthracene	228	6.374	6.374	(0.997)	524965	20.0000	18.7968(H)
19 Chrysene	228	6.406	6.406	(1.002)	466873	20.0000	17.1503(H)
20 Benzo(b)fluoranthene	252	7.202	7.202	(0.963)	498901	20.0000	19.1690(H)
21 Benzo(k)fluoranthene	252	7.224	7.224	(0.966)	448199	20.0000	16.4710(H)
22 Benzo(a)pyrene	252	7.432	7.432	(0.994)	439054	20.0000	17.7646(H)
24 Indeno(1,2,3-cd)pyrene	276	8.212	8.212	(1.098)	421411	20.0000	21.5934(MH)
25 Dibenzo(a,h)anthracene	278	8.228	8.228	(1.100)	381314	20.0000	19.5445(H)
26 Benzo(g,h,i)perylene	276	8.420	8.420	(1.126)	382339	20.0000	18.9106(H)

QC Flag Legend

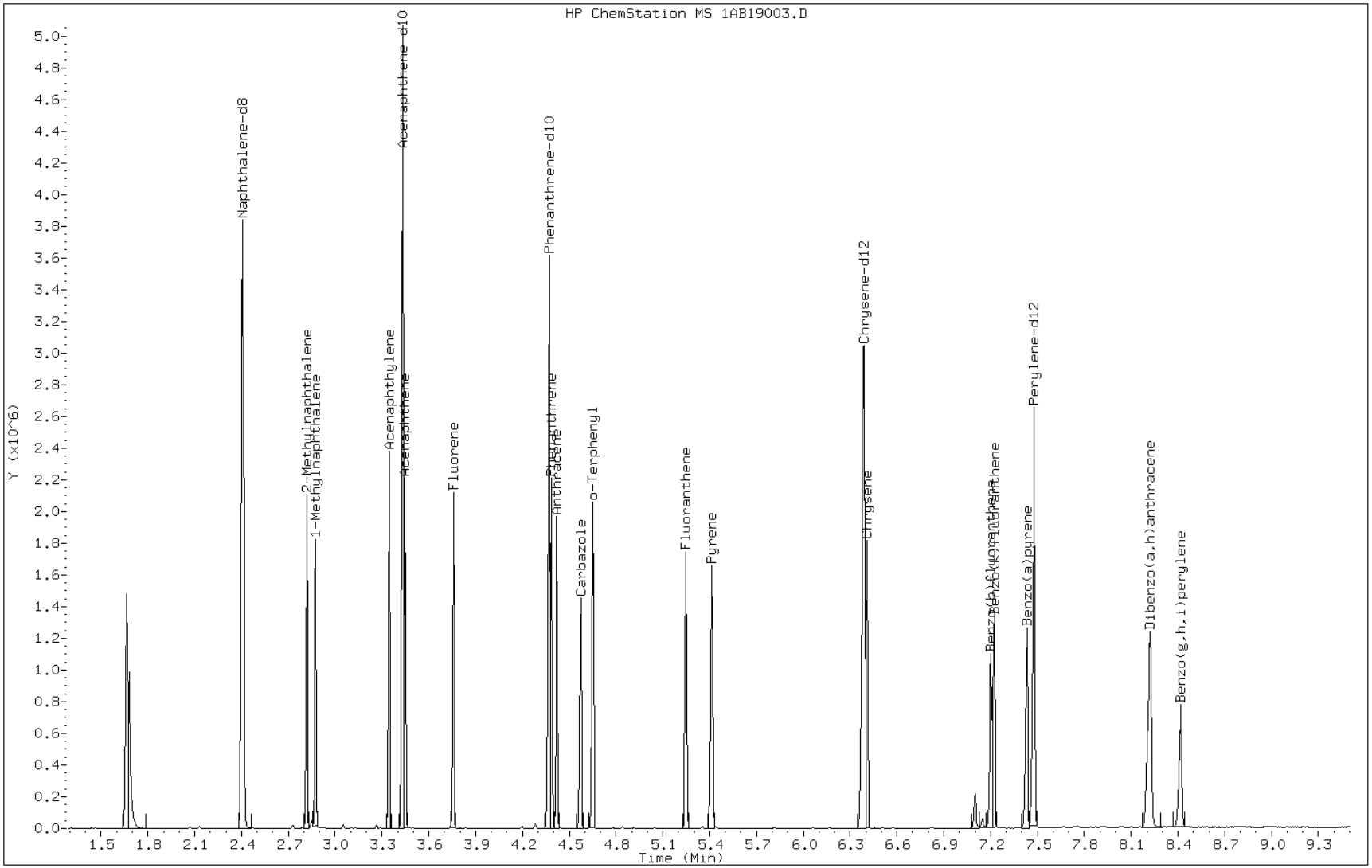
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB19003.D

Date: 19-FEB-2013 10:52

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1AB19003.D
Inj. Date and Time: 19-FEB-2013 10:52
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

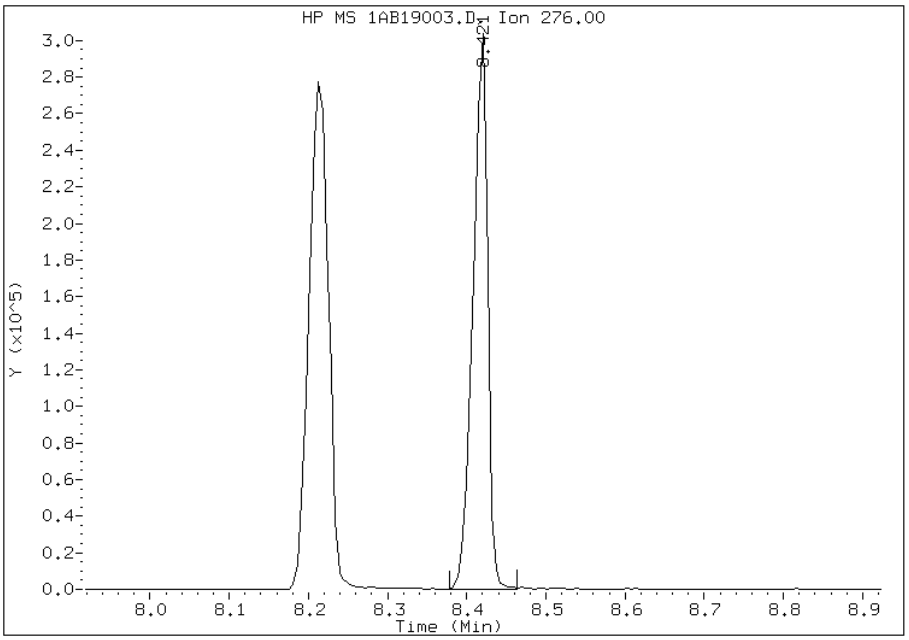
Processing Integration Results

RT: 8.42

Response: 382339

Amount: 20

Conc: 20



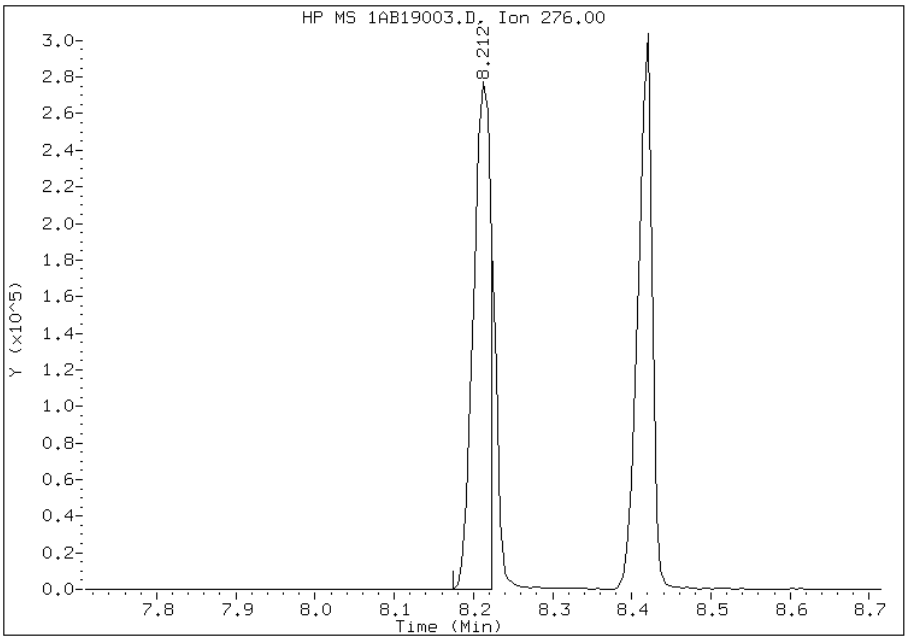
Manual Integration Results

RT: 8.21

Response: 421411

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 11:07
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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

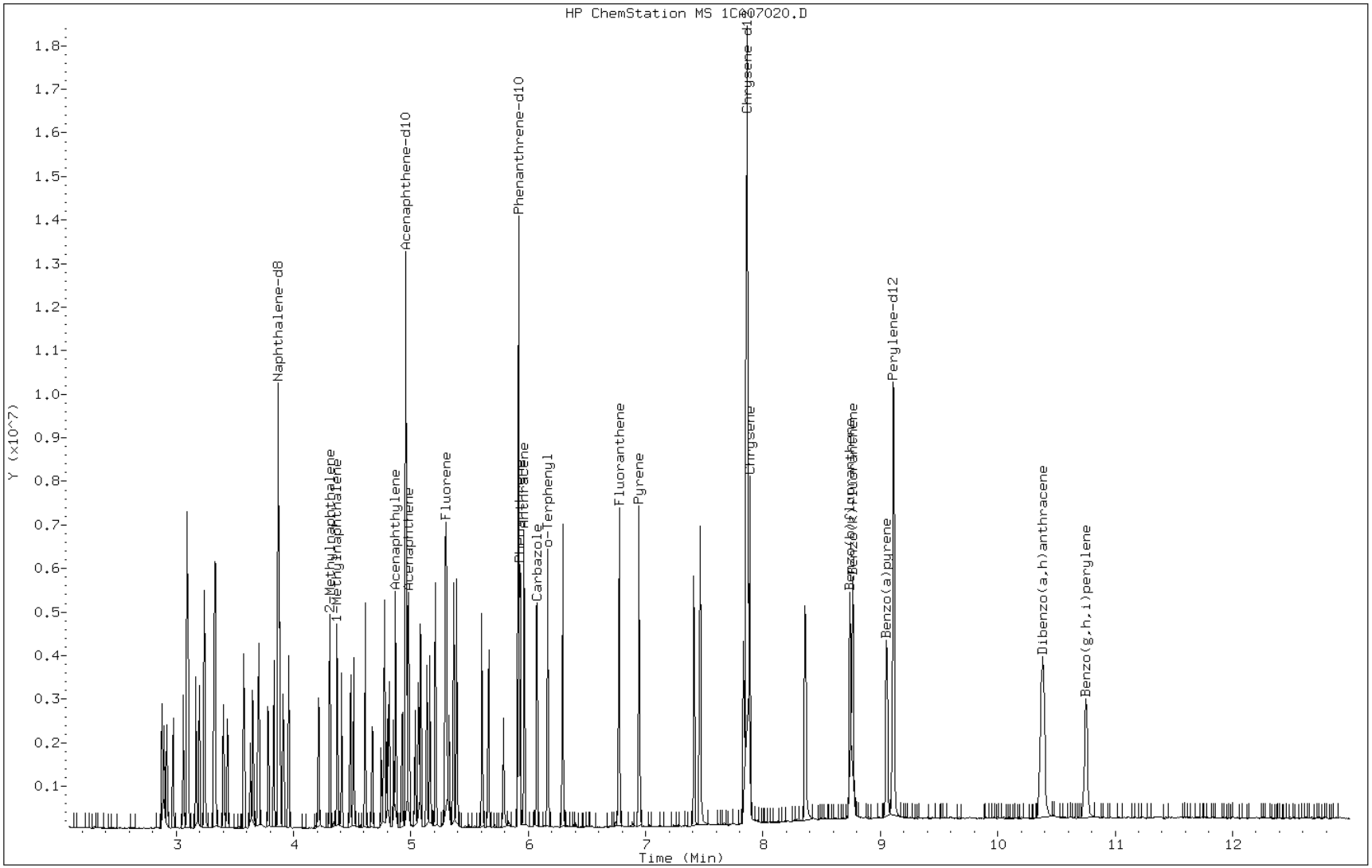
Date: 07-JAN-2013 17:31

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

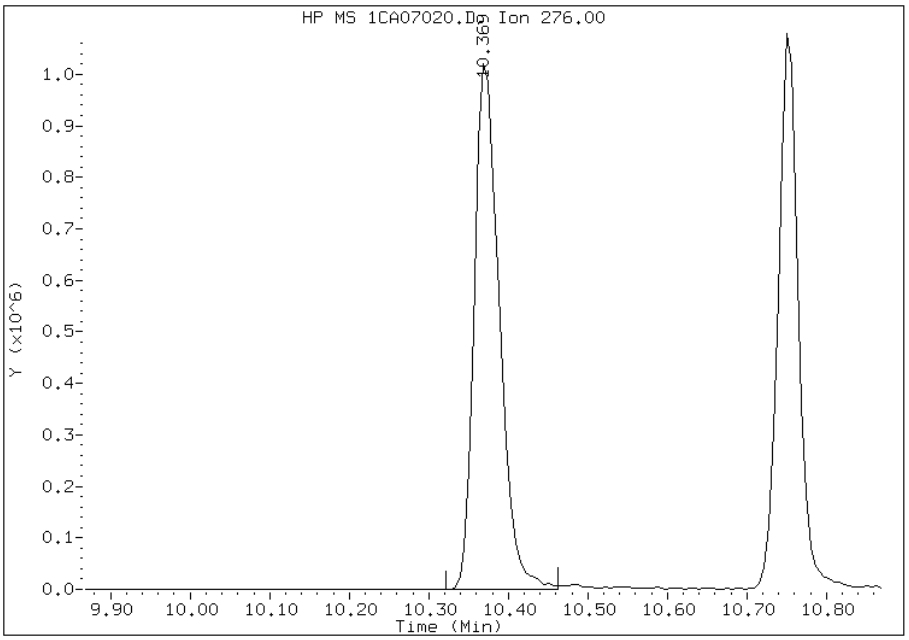
Processing Integration Results

RT: 10.37

Response: 2215563

Amount: 23

Conc: 23



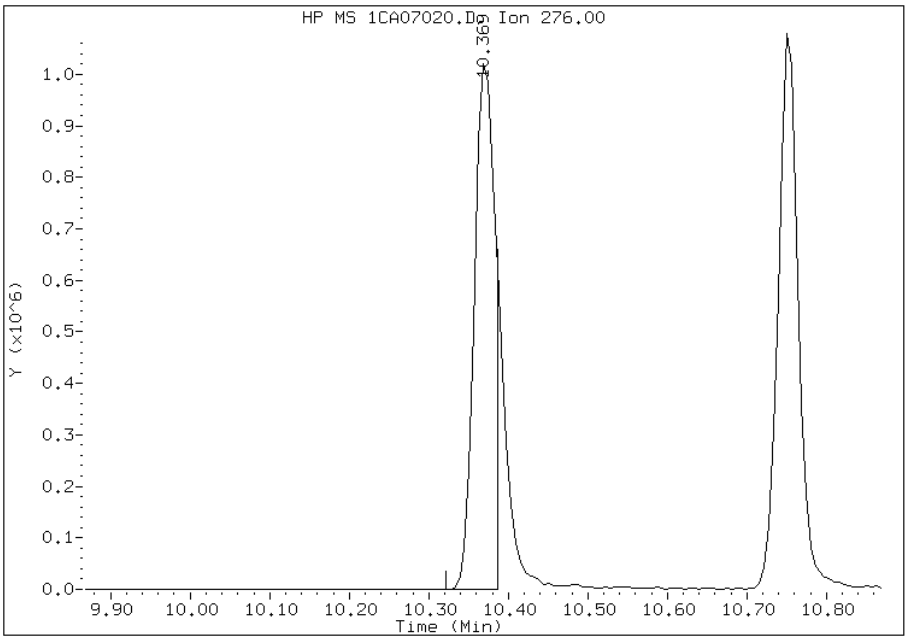
Manual Integration Results

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.: 680-87320-1

SDG No.: 68087320-1

Lab Sample ID: CCVIS 660-134673/3 Calibration Date: 02/19/2013 11:06

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CB19003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.054	0.0000	19900	20000	-0.6	20.0
2-Methylnaphthalene	Ave	0.6892	0.6805	0.0000	19700	20000	-1.3	20.0
1-Methylnaphthalene	Ave	0.6268	0.6416	0.0000	20500	20000	2.4	20.0
Acenaphthylene	Ave	1.591	1.592	0.0000	20000	20000	0.0	20.0
Acenaphthene	Ave	0.998	0.9339	0.0000	18700	20000	-6.4	20.0
Fluorene	Ave	1.281	1.255	0.0000	19600	20000	-2.0	20.0
Phenanthrene	Ave	1.194	1.058	0.0000	17700	20000	-11.4	20.0
Anthracene	Ave	1.076	1.100	0.0000	20400	20000	2.2	20.0
Carbazole	Ave	0.9344	0.9447	0.0000	20200	20000	1.1	20.0
Fluoranthene	Ave	1.167	1.167	0.0000	20000	20000	0.0	20.0
Pyrene	Ave	1.065	1.182	0.0000	22200	20000	11.0	20.0
Benzo[a]anthracene	Ave	1.103	1.075	0.0000	19500	20000	-2.5	20.0
Chrysene	Ave	1.139	1.066	0.0000	18700	20000	-6.5	20.0
Benzo[b]fluoranthene	Ave	0.9807	1.059	0.0000	21600	20000	8.0	20.0
Benzo[k]fluoranthene	Ave	1.080	1.141	0.0000	21100	20000	5.6	20.0
Benzo[a]pyrene	Ave	0.9332	1.007	0.0000	21600	20000	7.9	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.8920	0.0000	19900	20000	-0.5	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8333	0.0000	19700	20000	-1.4	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.8815	0.0000	19400	20000	-3.2	20.0
o-Terphenyl	Ave	0.5861	0.5817	0.0000	19800	20000	-0.8	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 19-FEB-2013 11:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	2572245	40.0000	(H)
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1964004	40.0000	(H)
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	3670146	40.0000	(H)
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	1067438	20.0000	19.8497(H)
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	3917198	40.0000	(H)
* 23 Perylene-d12	264	9.027	9.027	(1.000)	3584382	40.0000	(H)
2 Naphthalene	128	3.827	3.827	(1.003)	1355654	20.0000	19.8889(H)
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	875207	20.0000	19.7474(H)
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	825177	20.0000	20.4715(H)
5 Acenaphthylene	152	4.816	4.816	(0.982)	1563416	20.0000	20.0088(H)
7 Acenaphthene	154	4.921	4.921	(1.004)	917085	20.0000	18.7137(H)
9 Fluorene	166	5.245	5.245	(1.070)	1232357	20.0000	19.5901(H)
11 Phenanthrene	178	5.874	5.874	(1.003)	1940789	20.0000	17.7157(H)
12 Anthracene	178	5.910	5.910	(1.009)	2017692	20.0000	20.4421(H)
13 Carbazole	167	6.015	6.015	(1.027)	1733670	20.0000	20.2212(H)
15 Fluoranthene	202	6.715	6.715	(1.147)	2142039	20.0000	20.0102(H)
16 Pyrene	202	6.886	6.886	(0.882)	2315641	20.0000	22.2048(H)
17 Benzo(a)anthracene	228	7.798	7.798	(0.998)	2106153	20.0000	19.4974(H)
19 Chrysene	228	7.827	7.827	(1.002)	2087326	20.0000	18.7068(H)
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	1897768	20.0000	21.5956(H)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	2044589	20.0000	21.1192(H)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	1804421	20.0000	21.5787(H)
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.251	(1.136)	1598683	20.0000	19.9050(MH)
25 Dibenzo(a,h)anthracene	278	10.268	10.268	(1.137)	1493495	20.0000	19.7189(H)
26 Benzo(g,h,i)perylene	276	10.621	10.621	(1.177)	1579754	20.0000	19.3634(H)

QC Flag Legend

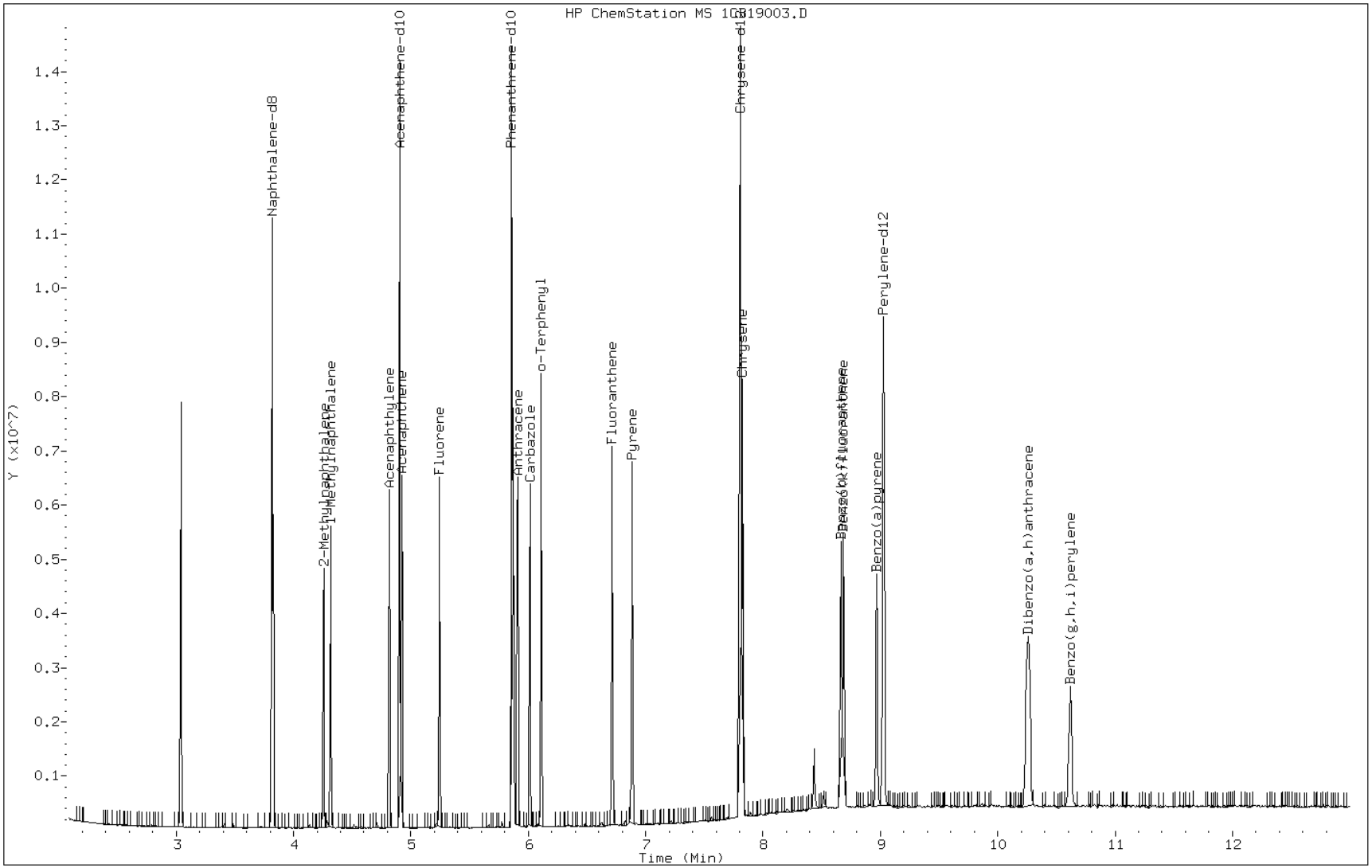
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB19003.D

Date: 19-FEB-2013 11:06

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CB19003.D
Inj. Date and Time: 19-FEB-2013 11:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

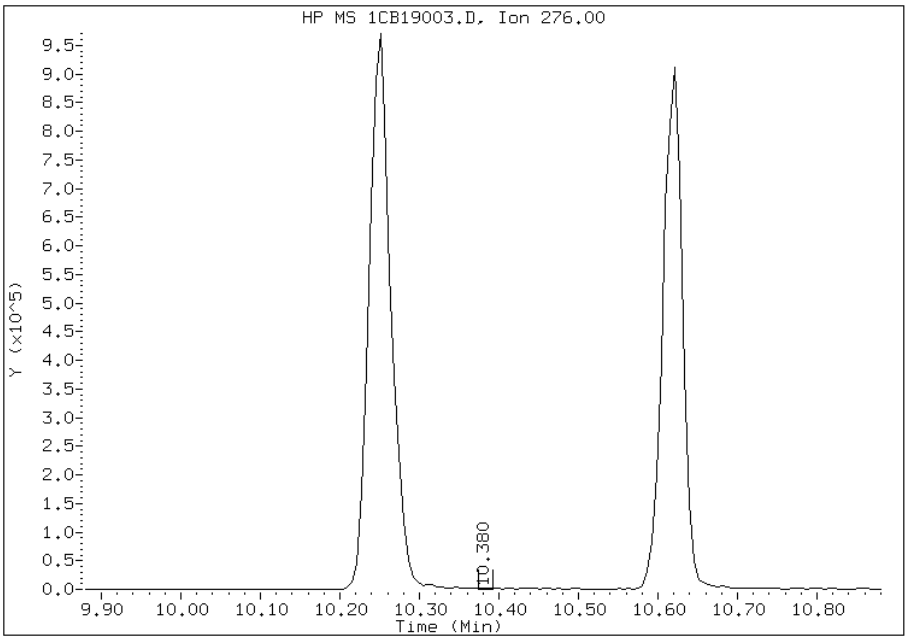
Processing Integration Results

RT: 10.38

Response: 1712

Amount: 0

Conc: 0



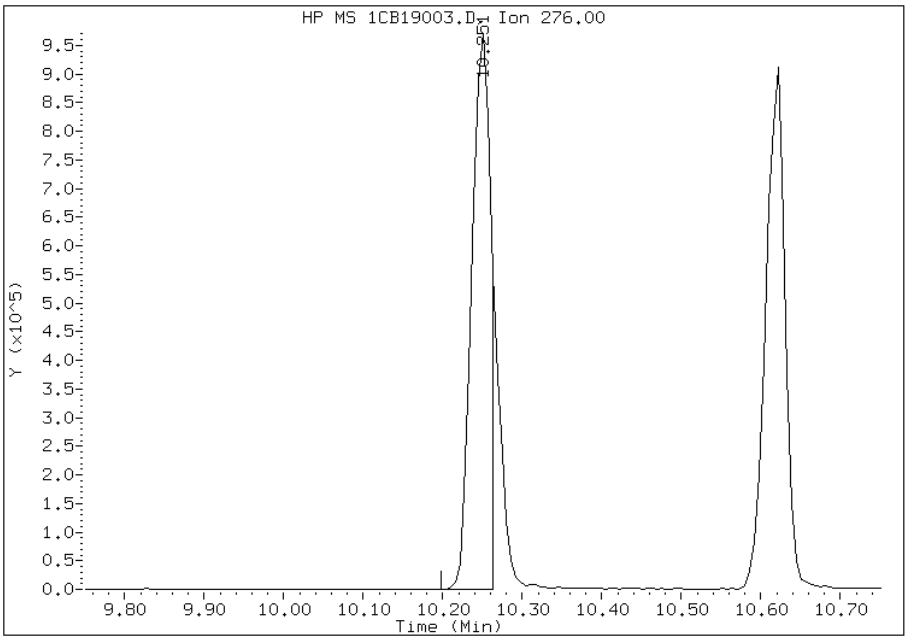
Manual Integration Results

RT: 10.25

Response: 1598683

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 11:24
Manual Integration Reason: Split Peak

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

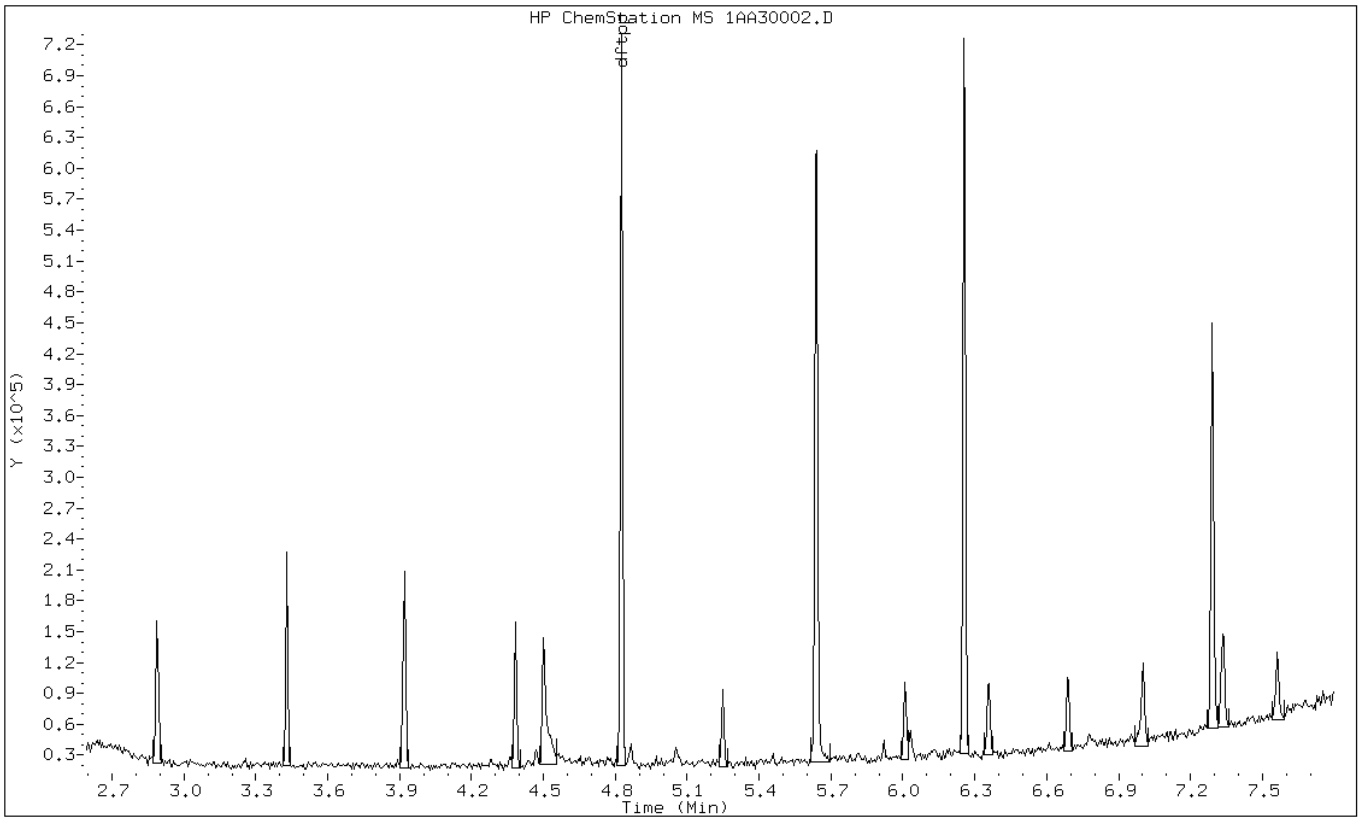
Date: 30-JAN-2013 11:20

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



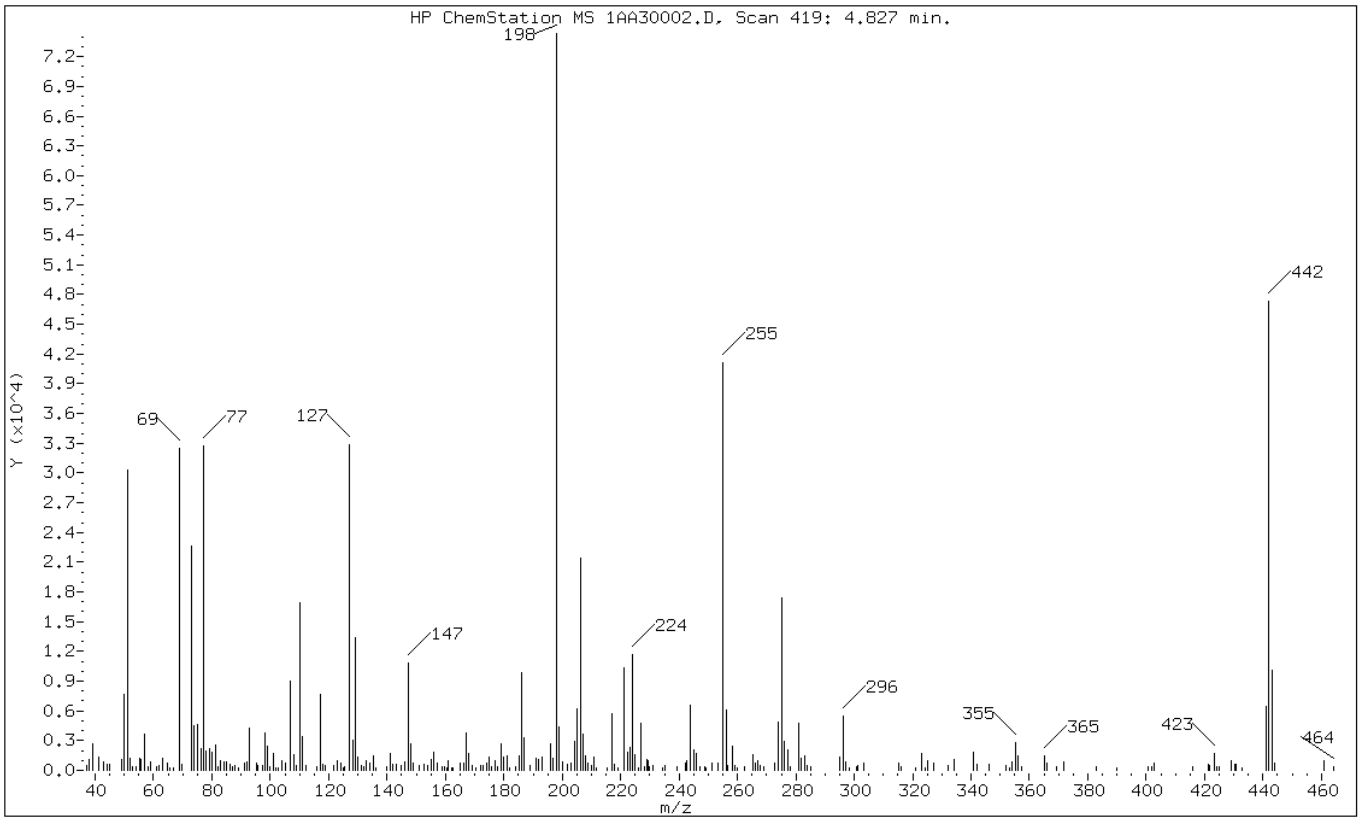
Data File: 1AA30002.D

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\1A021913.b\1AB19002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 19-FEB-2013 10:38
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.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

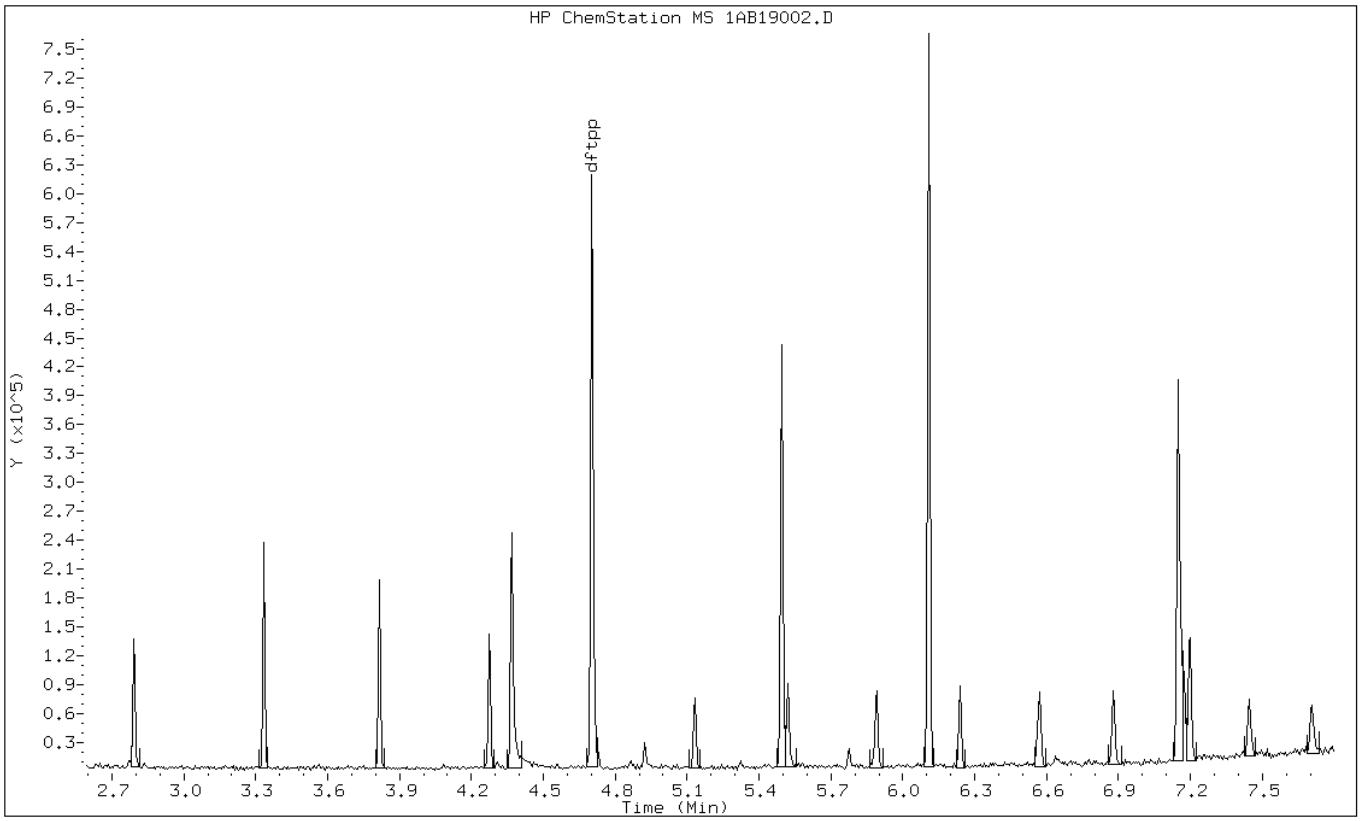
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.699	4.928	-0.229	198	53404			50.00- 0.00	100.00
4.699	4.928	-0.229	51	28348			10.00- 80.00	53.08
4.699	4.928	-0.229	68	0	0.0	0.0	0.00- 2.00	0.00
4.699	4.928	-0.229	69	24808			0.00- 0.00	46.45
4.699	4.928	-0.229	70	0	0.0	0.0	0.00- 2.00	0.00
4.699	4.928	-0.229	127	25892			10.00- 80.00	48.48
4.699	4.928	-0.229	197	0	0.0	0.0	0.00- 2.00	0.00
4.699	4.928	-0.229	442	35916			50.00- 0.00	67.25
4.699	4.928	-0.229	199	3942			5.00- 9.00	7.38
4.699	4.928	-0.229	275	11745			10.00- 60.00	21.99
4.699	4.928	-0.229	365	2716			1.00- 0.00	5.09
4.699	4.928	-0.229	441	5575			0.01- 99.99	83.05
4.699	4.928	-0.229	443	6713			15.00- 24.00	18.69

Data File: 1AB19002.D

Date: 19-FEB-2013 10:38

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



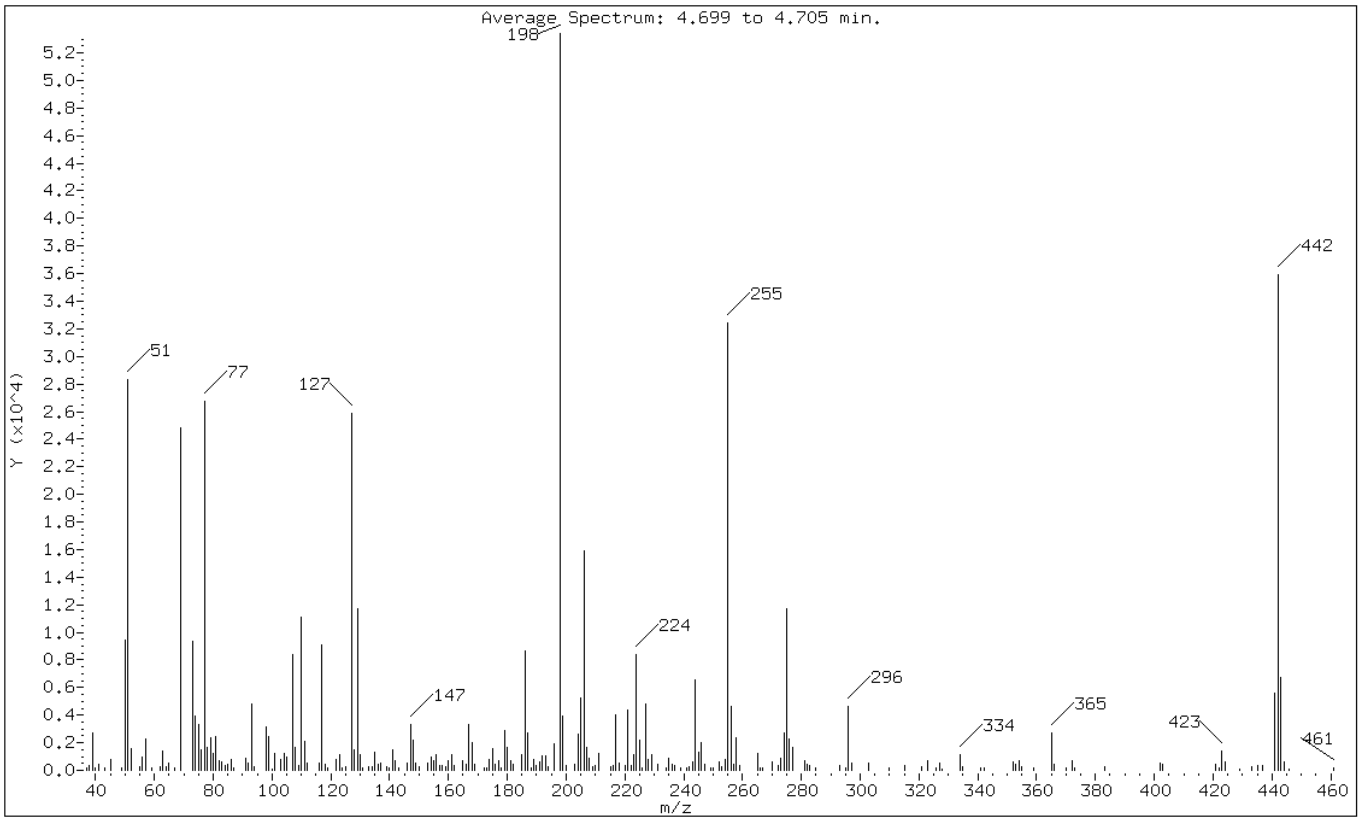
Data File: 1AB19002.D

Date: 19-FEB-2013 10:38

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	53.08
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.45
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	48.48
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.25
199	5.00 - 9.00% of mass 198	7.38
275	10.00 - 60.00% of mass 198	21.99
365	Greater than 1.00% of mass 198	5.09
441	Present, but less than mass 443	10.44
443	15.00 - 24.00% of mass 442	12.57 (18.69)

Data File: 1AB19002.D

Date: 19-FEB-2013 10:38

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\1AB19002.D
Spectrum: Average Spectrum: 4.699 to 4.705 min.
Location of Maximum: 198.00
Number of points: 224

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	160	122.00	774	192.00	1034	272.00	383
38.00	350	123.00	1171	193.00	1064	273.00	856
39.00	2672	124.00	147	194.00	266	274.00	2695
40.00	134	125.00	258	196.00	1908	275.00	11745
41.00	416	127.00	25888	198.00	53400	276.00	2299
43.00	150	128.00	1519	199.00	3942	277.00	1696
45.00	756	129.00	11739	200.00	308	281.00	720
49.00	203	130.00	1114	203.00	440	282.00	439
50.00	9405	131.00	174	204.00	2626	283.00	360
51.00	28344	133.00	248	205.00	5239	285.00	142
52.00	1594	134.00	250	206.00	15878	293.00	312
55.00	261	135.00	1331	207.00	1695	295.00	151
56.00	982	136.00	440	208.00	885	296.00	4599
57.00	2291	137.00	525	209.00	297	297.00	504
59.00	141	139.00	252	210.00	385	303.00	503
62.00	280	140.00	180	211.00	1261	310.00	134
63.00	1429	141.00	1508	215.00	247	315.00	335
64.00	294	142.00	722	216.00	335	321.00	260
65.00	508	143.00	146	217.00	4033	323.00	733
67.00	218	146.00	541	218.00	530	326.00	179
69.00	24808	147.00	3343	220.00	345	327.00	547
73.00	9363	148.00	2150	221.00	4391	328.00	127
74.00	3909	149.00	495	222.00	350	334.00	1148
75.00	3282	150.00	278	223.00	1136	335.00	241
76.00	1483	153.00	541	224.00	8415	341.00	198
77.00	26728	154.00	932	225.00	2147	342.00	134
78.00	1630	155.00	676	226.00	166	352.00	571
79.00	2393	156.00	1098	227.00	4804	353.00	453
80.00	1251	157.00	380	228.00	764	354.00	665
81.00	2417	158.00	388	229.00	1162	355.00	281
82.00	660	159.00	289	231.00	430	359.00	210
83.00	651	160.00	674	234.00	204	365.00	2716
84.00	365	161.00	1167	235.00	842	366.00	444
85.00	401	162.00	363	236.00	415	370.00	137
86.00	786	165.00	697	237.00	380	372.00	689
87.00	155	166.00	450	239.00	151	373.00	145
91.00	863	167.00	3334	241.00	195	383.00	255
92.00	486	168.00	2029	242.00	274	402.00	564
93.00	4798	169.00	451	243.00	578	403.00	441
94.00	303	172.00	172	244.00	6589	421.00	406

98.00	3117	173.00	188	245.00	1268	422.00	163
99.00	2427	174.00	754	246.00	1981	423.00	1385
100.00	130	175.00	1553	247.00	433	424.00	632
101.00	1209	176.00	459	249.00	149	429.00	129
103.00	774	177.00	715	250.00	135	433.00	240
104.00	1252	178.00	132	252.00	585	435.00	319
105.00	994	179.00	2843	253.00	228	437.00	334
107.00	8392	180.00	1671	254.00	782	441.00	5575
108.00	1683	181.00	742	255.00	32384	442.00	35912
109.00	320	182.00	475	256.00	4633	443.00	6713
110.00	11135	185.00	1152	257.00	453	444.00	650
111.00	2054	186.00	8610	258.00	2329	446.00	125
112.00	484	187.00	2732	259.00	384	461.00	155
116.00	548	188.00	174	265.00	1206		
117.00	9073	189.00	819	266.00	203		
118.00	418	190.00	315	267.00	141		
119.00	132	191.00	578	270.00	592		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JAN-2013 11:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\c-dftpp198.m
Meth Date : 24-Sep-2012 11:04 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

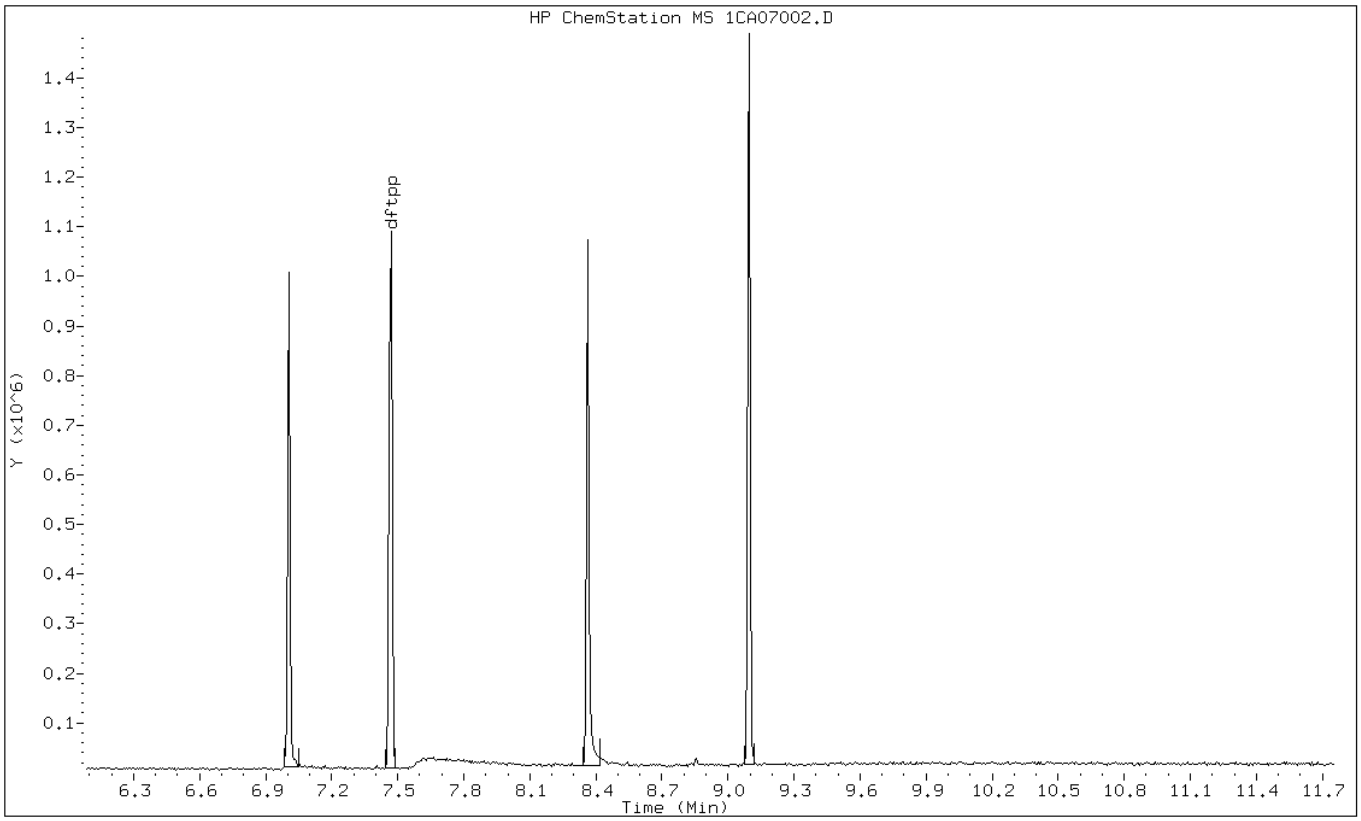
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.469	7.763	-0.294	198	127120			50.00- 0.00	100.00
7.469	7.763	-0.294	51	41280			10.00- 80.00	32.47
7.469	7.763	-0.294	68	533			0.00- 2.00	1.05
7.469	7.763	-0.294	69	50672			0.00- 0.00	39.86
7.469	7.763	-0.294	70	529			0.00- 2.00	1.04
7.469	7.763	-0.294	127	59544			10.00- 80.00	46.84
7.469	7.763	-0.294	197	1231			0.00- 2.00	0.97
7.469	7.763	-0.294	442	114480			50.00- 0.00	90.06
7.469	7.763	-0.294	199	7870			5.00- 9.00	6.19
7.469	7.763	-0.294	275	29224			10.00- 60.00	22.99
7.469	7.763	-0.294	365	3930			1.00- 0.00	3.09
7.469	7.763	-0.294	441	16880			0.01- 99.99	77.01
7.469	7.763	-0.294	443	21920			15.00- 24.00	19.15

Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



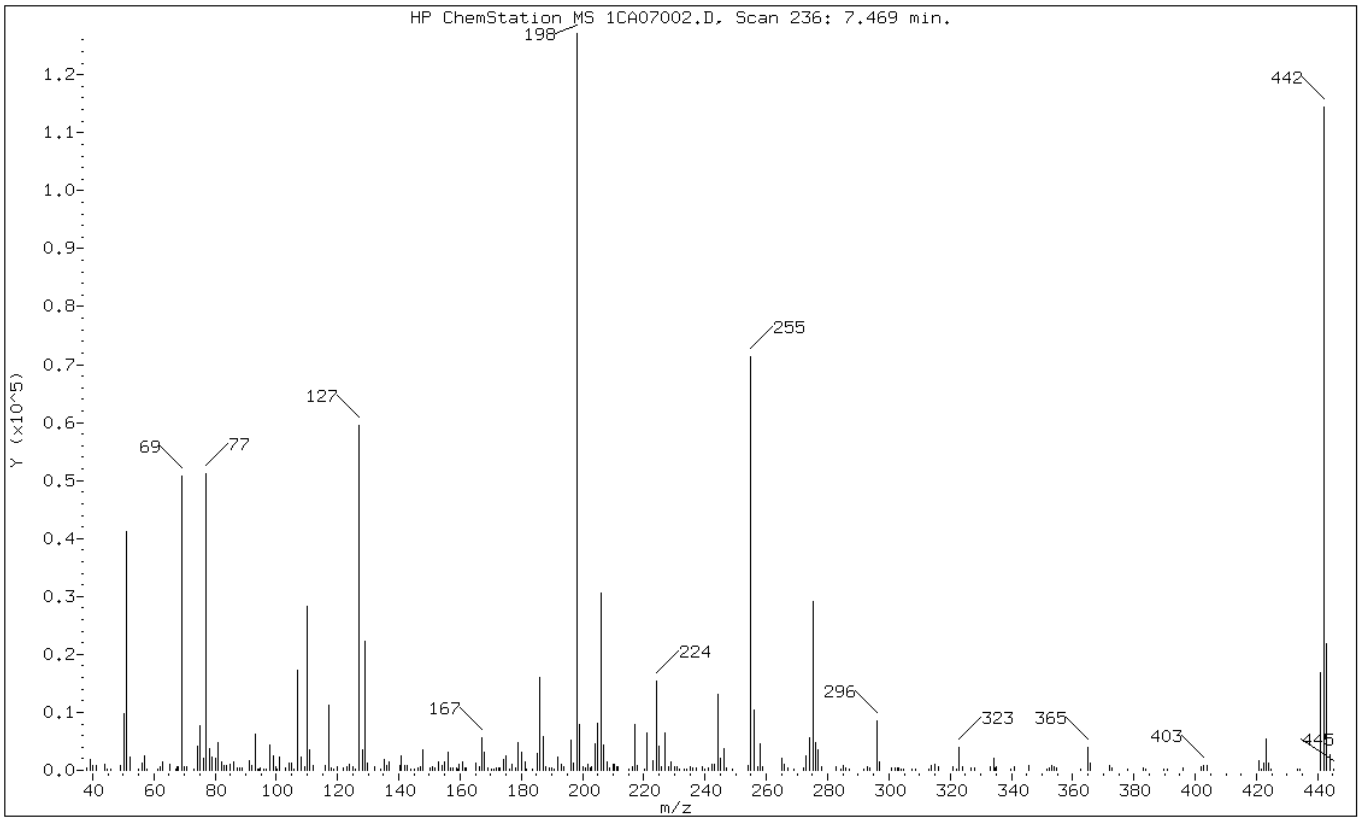
Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	32.47
68	Less than 2.00% of mass 69	0.42 (1.05)
69	Mass 69 relative abundance	39.86
70	Less than 2.00% of mass 69	0.42 (1.04)
127	10.00 - 80.00% of mass 198	46.84
197	Less than 2.00% of mass 198	0.97
442	Greater than 50.00% of mass 198	90.06
199	5.00 - 9.00% of mass 198	6.19
275	10.00 - 60.00% of mass 198	22.99
365	Greater than 1.00% of mass 198	3.09
441	Present, but less than mass 443	13.28
443	15.00 - 24.00% of mass 442	17.24 (19.15)

Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07002.D
Spectrum: HP ChemStation MS 1CA07002.D, Scan 236: 7.469 min.
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	420	119.90	601	196.10	5188	285.10	914
39.10	1782	121.80	475	197.10	1231	286.00	390
40.00	839	123.00	633	198.00	127120	287.10	179
41.10	859	124.00	937	199.00	7870	291.80	160
44.10	1108	125.00	669	200.10	670	293.00	589
44.90	152	125.90	258	200.90	482	293.90	453
45.90	156	127.10	59544	201.60	949	296.00	8526
49.00	871	128.10	3506	202.40	400	297.00	1368
50.10	9842	129.10	22208	203.00	538	300.70	479
51.10	41280	129.90	1266	204.00	4533	302.10	418
52.10	2357	132.10	617	205.00	8018	302.90	472
55.00	276	134.10	298	206.10	30592	303.30	414
56.00	1192	135.20	1953	207.00	4423	304.00	250
57.00	2442	136.10	890	208.00	1503	304.90	167
57.90	185	137.00	1425	208.80	471	307.70	155
61.30	188	140.20	914	210.00	937	308.80	244
62.00	685	140.90	2482	210.50	1006	313.00	279
63.00	1392	141.90	797	211.00	696	313.90	813
65.10	1132	142.90	864	211.60	536	315.00	1012
67.10	153	144.10	161	215.00	234	316.00	692
67.70	533	145.10	150	216.10	583	321.00	591
68.10	627	146.20	391	217.00	7970	322.00	171
69.10	50672	147.10	718	217.90	767	323.00	3997
70.10	529	148.00	3470	220.10	248	324.00	655
70.80	521	150.20	424	221.10	6401	327.00	413
73.10	282	151.00	649	222.80	1599	328.10	455
74.10	4253	151.80	327	224.10	15340	333.00	681
75.10	7783	153.00	1468	225.10	4235	334.10	2080
76.20	2092	154.10	806	225.90	587	334.80	423
77.10	51200	155.00	1543	227.00	6494	335.20	609
78.10	3708	156.00	3046	228.00	644	339.70	262
79.10	2279	156.90	385	228.90	1504	341.10	544
80.00	1989	157.80	369	230.00	552	345.80	748
81.00	4740	158.70	485	230.90	613	351.50	280
82.00	1539	159.20	191	231.70	188	352.30	428
82.90	800	159.80	1069	233.10	217	353.10	740
83.90	857	161.00	1449	234.00	303	354.00	654
85.00	1057	161.70	319	235.00	716	354.70	475
86.10	1480	162.10	352	235.90	363	362.50	264
87.10	445	165.00	1236	237.10	461	365.00	3930

87.90	375	166.20	671
89.00	333	167.00	5703
91.10	1642	168.00	3193
91.90	746	169.00	422
93.10	6202	170.10	237
93.80	300	171.00	275
94.20	188	171.90	443
94.80	488	172.80	465
96.10	190	173.10	403
96.90	185	174.20	1825
98.00	4388	175.10	2490
99.00	2420	176.00	265
99.70	568	176.80	966
100.20	212	178.00	357
101.10	2275	179.00	4862
103.00	381	180.10	3189
104.00	1148	181.10	1541
105.00	1192	181.80	286
105.80	271	183.60	157
107.00	17216	185.10	2863
108.00	2207	186.10	15999
109.20	723	187.10	5787
110.00	28384	188.10	556
111.00	3607	189.20	469
112.10	771	190.10	335
116.00	796	190.60	276
117.00	11205	192.00	2219
118.00	466	193.00	1058
118.90	198	194.00	556

238.90	530	365.90	1347
239.70	227	372.00	894
241.00	373	372.90	491
242.10	1013	378.00	155
243.10	1025	382.90	344
244.10	13028	383.80	260
245.00	2095	389.90	193
246.00	3792	391.00	205
247.10	451	396.00	313
249.10	154	402.00	707
253.90	895	402.90	932
255.00	71336	404.00	827
256.00	10460	421.00	1613
257.10	645	421.60	223
258.00	4542	422.20	1189
258.80	695	423.00	5417
264.90	2158	424.10	1194
266.00	1029	424.70	185
267.20	353	433.30	241
269.00	264	434.10	201
272.10	445	441.00	16880
273.10	2581	442.00	114480
274.00	5681	443.00	21920
275.10	29224	444.00	2789
276.00	4836	445.20	272
277.00	3605		
278.10	644		
282.80	642		
284.50	218		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 19-FEB-2013 10:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

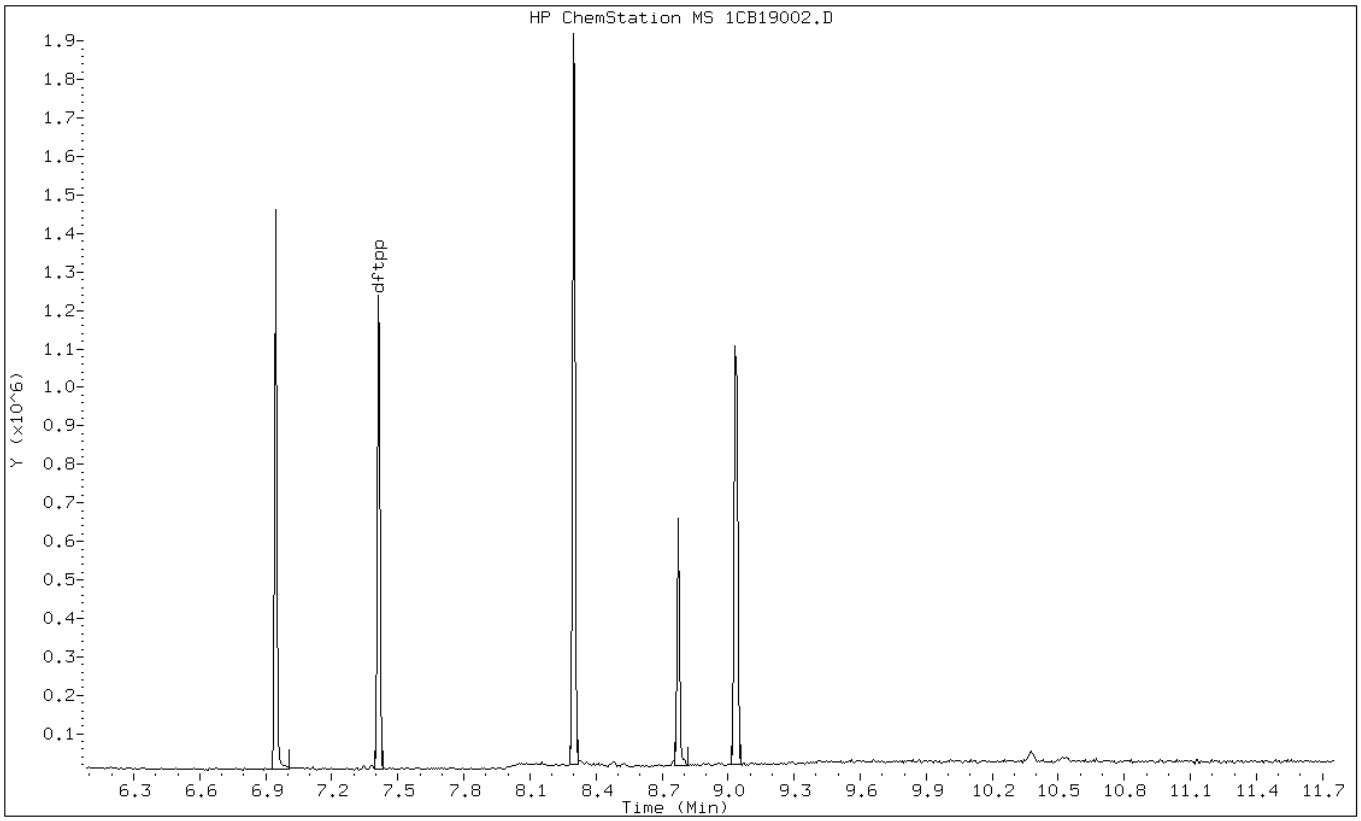
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.410	7.469	-0.059	198	147200			50.00- 0.00	100.00
7.410	7.469	-0.059	51	53328			10.00- 80.00	36.23
7.410	7.469	-0.059	68	1321			0.00- 2.00	1.80
7.410	7.469	-0.059	69	73552			0.00- 0.00	49.97
7.410	7.469	-0.059	70	245			0.00- 2.00	0.33
7.410	7.469	-0.059	127	66032			10.00- 80.00	44.86
7.410	7.469	-0.059	197	0	0.0	0.0	0.00- 2.00	0.00
7.410	7.469	-0.059	442	101280			50.00- 0.00	68.80
7.410	7.469	-0.059	199	11268			5.00- 9.00	7.65
7.410	7.469	-0.059	275	30472			10.00- 60.00	20.70
7.410	7.469	-0.059	365	5528			1.00- 0.00	3.76
7.410	7.469	-0.059	441	15640			0.01- 99.99	77.64
7.410	7.469	-0.059	443	20144			15.00- 24.00	19.89

Data File: 1CB19002.D

Date: 19-FEB-2013 10:50

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



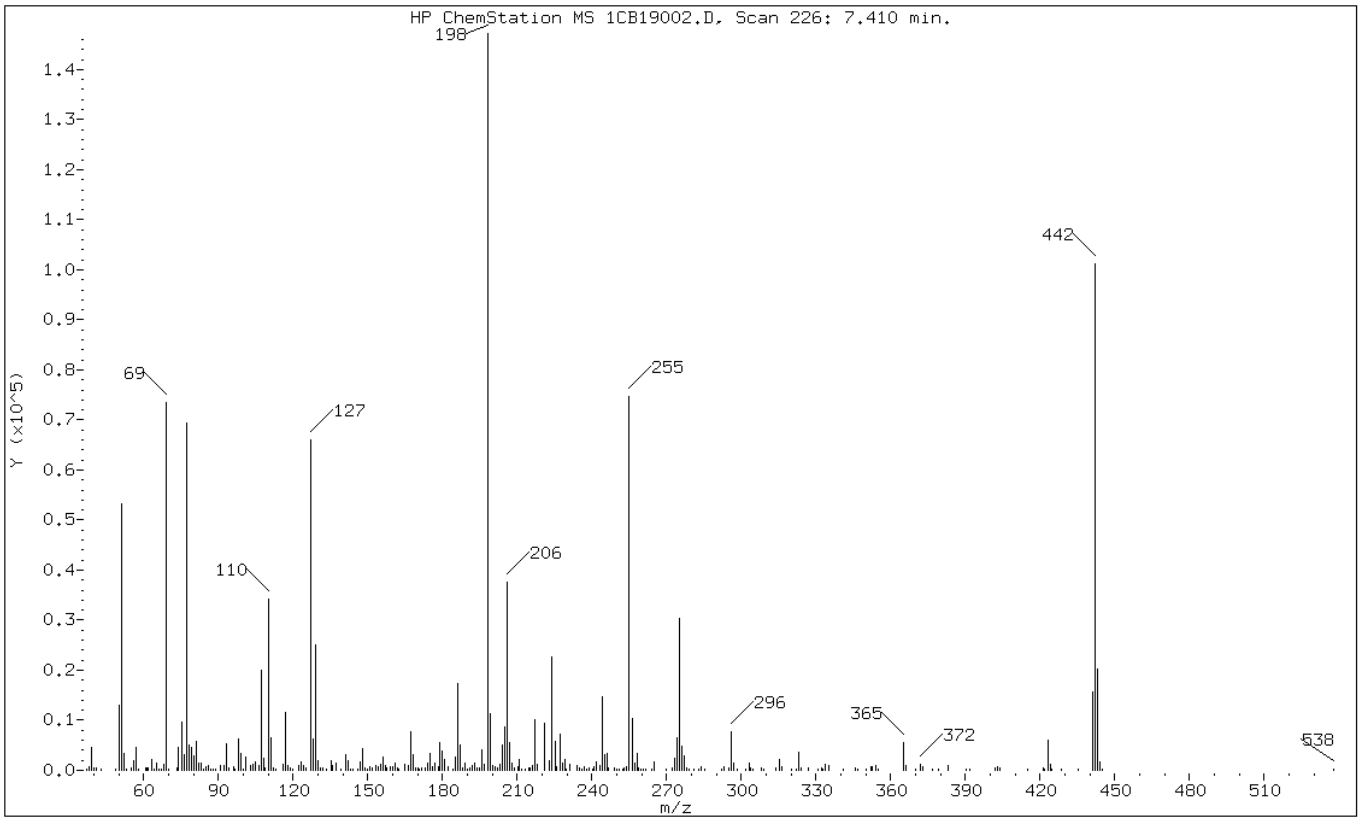
Data File: 1CB19002.D

Date: 19-FEB-2013 10:50

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	36.23
68	Less than 2.00% of mass 69	0.90 (1.80)
69	Mass 69 relative abundance	49.97
70	Less than 2.00% of mass 69	0.17 (0.33)
127	10.00 - 80.00% of mass 198	44.86
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	68.80
199	5.00 - 9.00% of mass 198	7.65
275	10.00 - 60.00% of mass 198	20.70
365	Greater than 1.00% of mass 198	3.76
441	Present, but less than mass 443	10.63
443	15.00 - 24.00% of mass 442	13.68 (19.89)

Data File: 1CB19002.D

Date: 19-FEB-2013 10:50

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19002.D
Spectrum: HP ChemStation MS 1CB19002.D, Scan 226: 7.410 min.
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	192	122.10	1052	198.00	147200	278.90	226
38.10	618	123.10	1744	199.00	11268	281.00	191
39.10	4661	124.10	998	200.00	974	283.10	180
40.00	405	125.10	542	201.20	644	284.00	726
41.00	508	127.10	66032	201.90	466	285.10	279
43.10	231	128.10	6191	202.90	1161	292.10	292
48.90	166	129.00	24936	204.10	5062	293.00	654
50.10	13119	130.00	1844	205.10	8745	295.20	453
51.10	53328	131.20	501	206.10	37656	296.00	7717
52.10	3276	131.80	525	207.10	5652	297.10	1555
53.10	328	133.60	317	208.00	1329	298.20	209
55.10	517	135.10	1811	209.10	577	301.60	160
56.00	1863	135.90	1001	210.20	683	303.00	1472
57.10	4598	137.10	1445	210.90	2195	303.90	537
58.10	226	139.10	168	212.00	244	304.70	357
60.90	496	141.00	3180	213.00	182	307.90	458
61.20	550	142.10	1814	214.70	467	308.80	237
62.00	546	143.10	332	215.20	547	313.90	457
63.10	2085	144.00	273	216.20	984	315.10	2097
64.10	236	146.00	323	217.00	10221	316.10	739
65.10	1525	147.10	1659	218.00	1105	320.40	315
66.10	203	148.00	4219	221.10	9413	322.10	189
67.30	320	149.00	517	222.90	1976	323.00	3622
68.10	1321	150.00	224	224.00	22560	324.10	456
69.10	73552	151.00	740	225.10	5745	326.70	438
69.90	245	152.00	594	226.00	820	330.90	188
73.20	594	153.10	1082	227.10	7155	332.10	439
74.00	4664	154.00	613	228.10	1456	332.80	229
75.10	9733	155.00	1297	229.00	2213	333.80	1174
76.10	3147	156.10	2617	229.90	207	335.00	969
77.10	69456	157.20	861	231.00	1115	341.00	206
78.10	5078	157.80	526	234.00	980	346.00	431
79.10	4508	159.00	717	235.00	515	346.90	209
80.00	2985	160.10	672	236.20	358	350.20	156
81.10	5830	161.00	1537	237.10	825	352.00	629
82.00	1551	161.80	390	238.10	181	352.80	748
83.00	1369	162.20	295	239.00	528	354.00	883
84.10	230	165.00	1299	240.50	327	355.10	173
85.10	833	166.20	931	241.00	807	365.00	5528
86.00	879	167.10	7774	241.90	1591	365.90	915

87.10	317	168.10	3213	243.00	952	369.80	174
88.00	215	169.20	427	244.00	14734	372.00	1091
89.00	201	170.20	525	245.00	3056	373.00	680
91.00	887	170.70	302	246.00	3342	376.90	304
92.10	1054	171.80	474	246.70	476	379.20	191
93.10	5270	173.00	578	249.00	472	383.00	919
94.00	502	174.00	1539	249.90	184	390.10	217
96.10	730	175.00	3366	251.10	306	392.00	164
96.70	189	176.20	667	252.30	286	401.90	443
98.10	6272	177.00	1468	253.00	539	402.90	734
99.10	3485	178.20	607	253.80	765	403.90	502
100.00	349	179.00	5492	255.00	74688	415.10	345
101.00	2740	180.00	3958	256.10	10276	421.20	414
103.00	1035	181.00	2098	257.10	1398	422.00	226
104.00	1106	182.10	619	258.00	3341	423.10	5939
105.00	1579	184.00	170	258.90	499	424.00	1245
106.10	1049	185.10	2697	259.70	261	424.70	243
107.10	20072	186.10	17376	260.80	346	428.50	336
108.00	2475	187.10	5141	261.80	183	435.40	232
108.80	424	188.10	568	264.00	289	441.00	15640
110.00	34136	189.20	1341	265.10	1577	442.00	101280
111.10	6521	189.90	289	269.90	176	443.10	20144
112.00	520	191.00	494	272.30	465	444.00	1652
113.00	154	192.10	984	273.00	2497	445.00	158
116.10	1266	192.90	1457	274.00	6615	537.90	152
117.00	11651	194.00	498	275.00	30472		
118.00	1030	194.80	469	276.10	4858		
119.00	397	196.00	4165	276.90	2927		
120.00	184	196.60	1116	277.90	399		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87320-1
SDG No.: 68087320-1
Client Sample ID:
Lab Sample ID: MB 660-134515/1-A
Matrix: Solid
Lab File ID: 1AB19005.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/15/2013 10:18
Sample wt/vol: 15.00(g)
Date Analyzed: 02/19/2013 12:56
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.: 134679
Units: ug/Kg

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

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\1AB19005.D
Lab Smp Id: mb 660-134515/1-a
Inj Date : 19-FEB-2013 12:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-134515/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 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	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

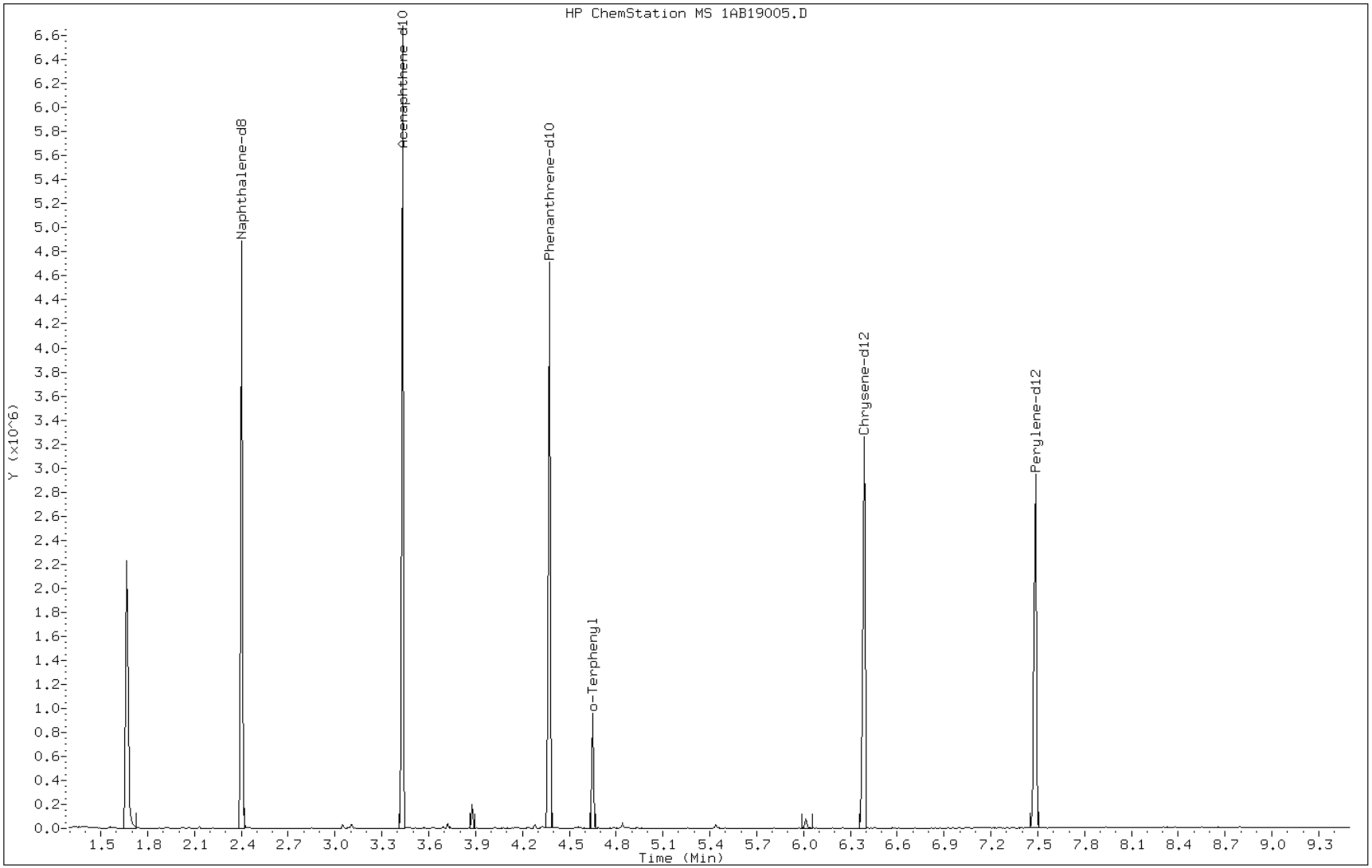
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.402	2.405	(1.000)	1287692	40.0000	
* 6 Acenaphthene-d10	164	3.433	3.431	(1.000)	922099	40.0000	
* 10 Phenanthrene-d10	188	4.373	4.371	(1.000)	1275455	40.0000	
$ 14 o-Terphenyl	230	4.651	4.649	(1.064)	125921	6.79441	452.9604
* 18 Chrysene-d12	240	6.387	6.390	(1.000)	1098702	40.0000	
* 23 Perylene-d12	264	7.488	7.480	(1.000)	1109634	40.0000	

Data File: 1AB19005.D

Date: 19-FEB-2013 12:56

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-134515/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: | Lab Sample ID: MB 660-134575/1-A

Matrix: Solid | Lab File ID: 1CB19005.D

Analysis Method: 8270C LL | Date Collected:

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

Sample wt/vol: 15.17(g) | Date Analyzed: 02/19/2013 14:47

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

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

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

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

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	4.9
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19005.D
Lab Smp Id: mb 660-134575/1-a
Inj Date : 19-FEB-2013 14:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134575/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	2045775	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.904	(1.000)	1629406	40.0000	
* 10 Phenanthrene-d10	188	5.874	5.857	(1.000)	2925589	40.0000	(H)
$ 14 o-Terphenyl	230	6.127	6.110	(1.043)	373905	8.72253	574.9857(H)
* 18 Chrysene-d12	240	7.827	7.809	(1.000)	3238232	40.0000	
* 23 Perylene-d12	264	9.062	9.027	(1.000)	3085834	40.0000	(H)

QC Flag Legend

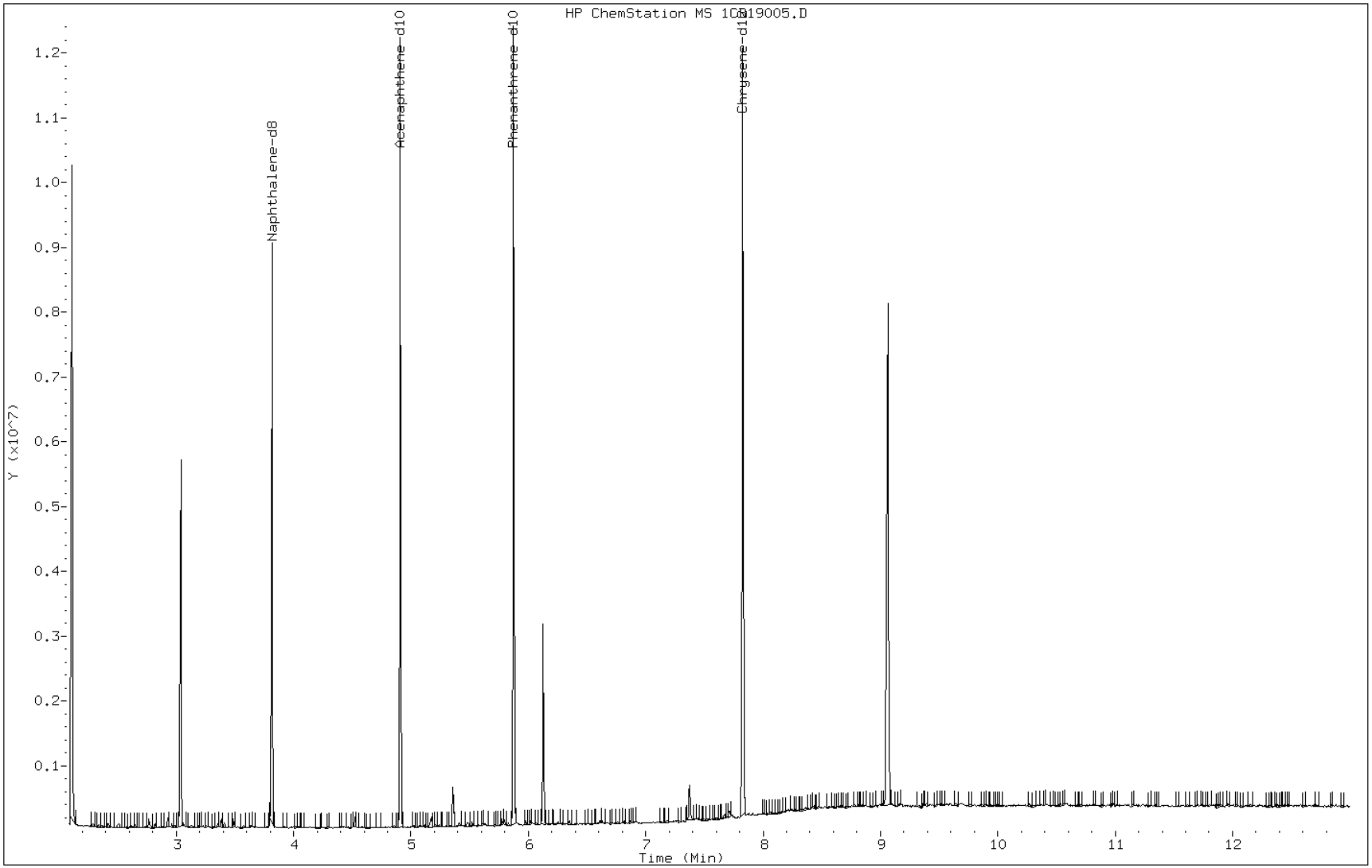
H - Operator selected an alternate compound hit.

Data File: 1CB19005.D

Date: 19-FEB-2013 14:47

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134575/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87320-1
SDG No.: 68087320-1
Client Sample ID:
Lab Sample ID: LCS 660-134515/2-A
Matrix: Solid
Lab File ID: 1AB19006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/15/2013 10:18
Sample wt/vol: 15.12(g)
Date Analyzed: 02/19/2013 13:11
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.: 134679
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	433		99	20
208-96-8	Acenaphthylene	438		40	5.0
120-12-7	Anthracene	456		8.3	4.2
56-55-3	Benzo[a]anthracene	522		7.9	3.9
50-32-8	Benzo[a]pyrene	432		10	5.2
205-99-2	Benzo[b]fluoranthene	520		12	6.1
191-24-2	Benzo[g,h,i]perylene	519		20	4.4
207-08-9	Benzo[k]fluoranthene	458		7.9	3.6
218-01-9	Chrysene	515		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	456		20	4.1
206-44-0	Fluoranthene	510		20	4.0
86-73-7	Fluorene	461		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	443		20	7.0
90-12-0	1-Methylnaphthalene	476		40	4.4
91-57-6	2-Methylnaphthalene	507		40	7.0
91-20-3	Naphthalene	451		40	4.4
85-01-8	Phenanthrene	478		7.9	3.9
129-00-0	Pyrene	434		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\1AB19006.D
Lab Smp Id: lcs 660-134515/2-a
Inj Date : 19-FEB-2013 13:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-134515/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 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	15.120	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	2.404	2.405	(1.000)	961816	40.0000	
* 6 Acenaphthene-d10	164	3.430	3.431	(1.000)	634430	40.0000	
* 10 Phenanthrene-d10	188	4.370	4.371	(1.000)	964929	40.0000	
$ 14 o-Terphenyl	230	4.648	4.649	(1.064)	131634	9.38839	620.9253
* 18 Chrysene-d12	240	6.384	6.390	(1.000)	841339	40.0000	
* 23 Perylene-d12	264	7.479	7.480	(1.000)	856775	40.0000	
2 Naphthalene	128	2.415	2.416	(1.004)	159075	6.81394	450.6574
3 2-Methylnaphthalene	141	2.816	2.816	(1.171)	95925	7.66990	507.2687
4 1-Methylnaphthalene	142	2.874	2.875	(1.195)	101936	7.20014	476.2000
5 Acenaphthylene	152	3.344	3.345	(0.975)	185581	6.62474	438.1439
7 Acenaphthene	154	3.446	3.447	(1.005)	99283	6.54813	433.0772
9 Fluorene	166	3.756	3.757	(1.095)	132941	6.97305	461.1806
11 Phenanthrene	178	4.381	4.387	(1.002)	190496	7.23036	478.1984
12 Anthracene	178	4.418	4.419	(1.011)	185306	6.89844	456.2461

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.568	4.574	(1.045)	158354	6.87724	454.8436
15 Fluoranthene	202	5.246	5.247	(1.200)	201556	7.71621	510.3313
16 Pyrene	202	5.412	5.413	(0.848)	199415	6.56296	434.0579
17 Benzo(a)anthracene	228	6.373	6.374	(0.998)	198461	7.90013	522.4952
19 Chrysene	228	6.400	6.406	(1.002)	190757	7.79038	515.2367
20 Benzo(b)fluoranthene	252	7.196	7.202	(0.962)	188047	7.86387	520.0970
21 Benzo(k)fluoranthene	252	7.217	7.224	(0.965)	172984	6.91891	457.6000
22 Benzo(a)pyrene	252	7.426	7.432	(0.993)	148425	6.53626	432.2924
24 Indeno(1,2,3-cd)pyrene	276	8.200	8.212	(1.096)	120168	6.70175	443.2373(M)
25 Dibenzo(a,h)anthracene	278	8.211	8.228	(1.098)	123532	6.89136	455.7777
26 Benzo(g,h,i)perylene	276	8.409	8.420	(1.124)	145700	7.84332	518.7384

QC Flag Legend

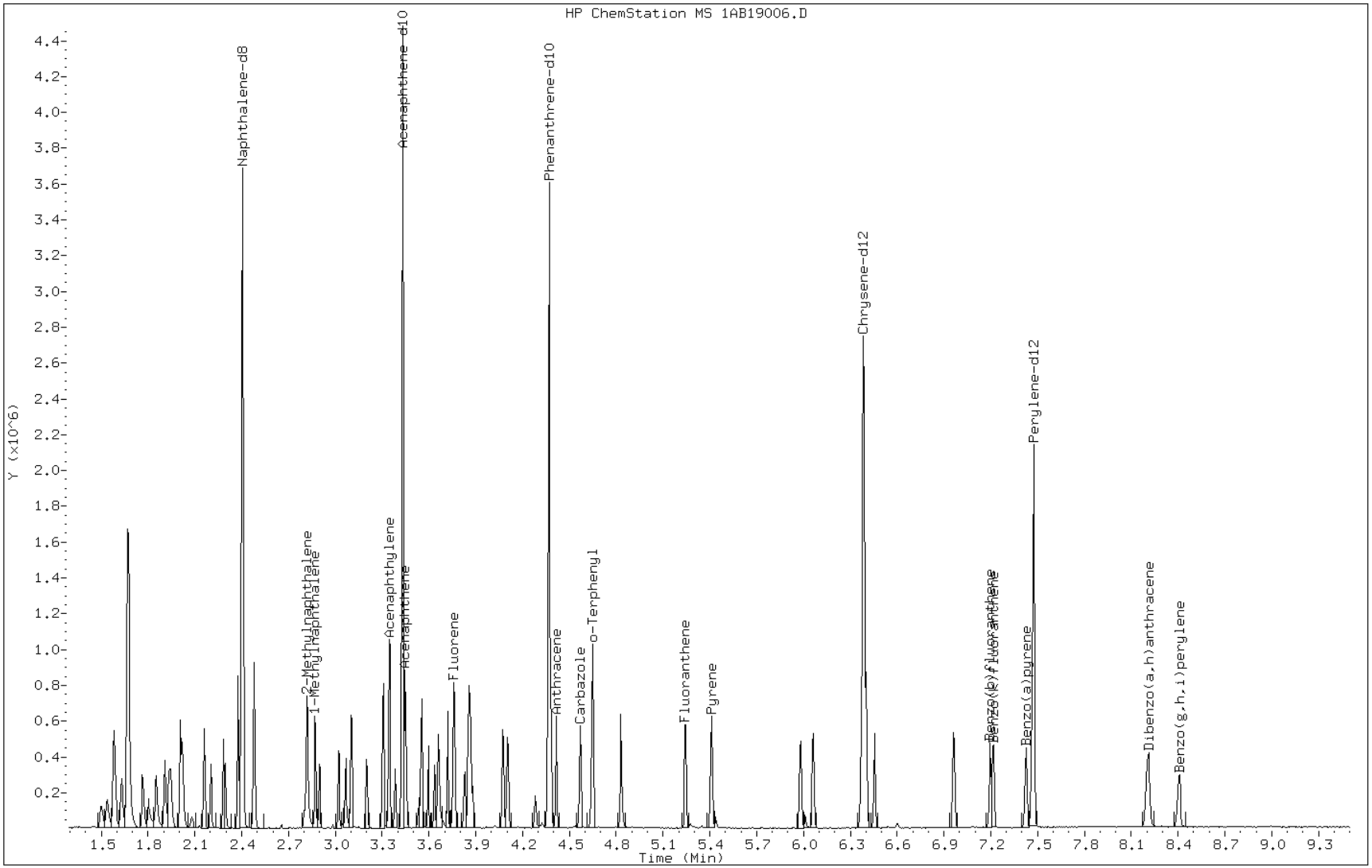
M - Compound response manually integrated.

Data File: 1AB19006.D

Date: 19-FEB-2013 13:11

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-134515/2-a Operator: SCC



Manual Integration Report

Data File: 1AB19006.D
Inj. Date and Time: 19-FEB-2013 13:11
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

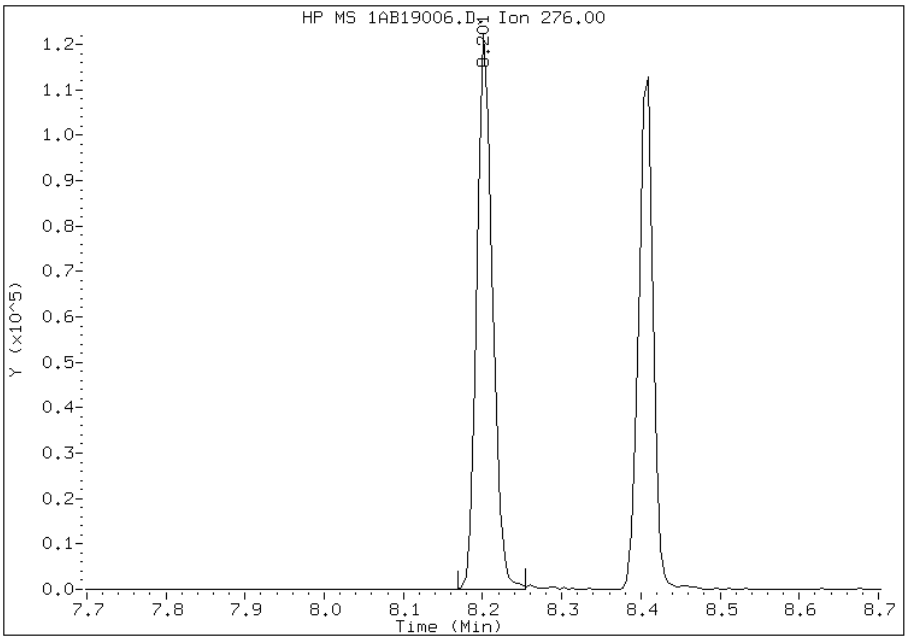
Processing Integration Results

RT: 8.20

Response: 165593

Amount: 9

Conc: 611



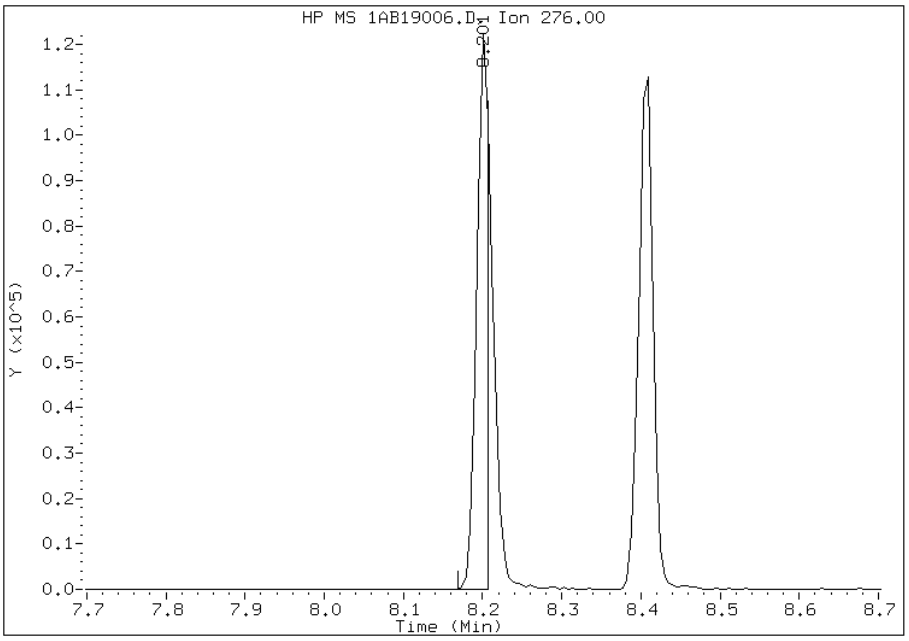
Manual Integration Results

RT: 8.20

Response: 120168

Amount: 7

Conc: 443



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:17
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87320-1
SDG No.: 68087320-1
Client Sample ID:
Lab Sample ID: LCS 660-134575/2-A
Matrix: Solid
Lab File ID: 1CB19006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/18/2013 11:03
Sample wt/vol: 15.36(g)
Date Analyzed: 02/19/2013 15:05
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134673
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	487		98	20
208-96-8	Acenaphthylene	530		39	4.9
120-12-7	Anthracene	554		8.2	4.1
56-55-3	Benzo[a]anthracene	579		7.8	3.8
50-32-8	Benzo[a]pyrene	540		10	5.1
205-99-2	Benzo[b]fluoranthene	569		12	6.0
191-24-2	Benzo[g,h,i]perylene	511		20	4.3
207-08-9	Benzo[k]fluoranthene	552		7.8	3.5
218-01-9	Chrysene	499		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	516		20	4.0
206-44-0	Fluoranthene	567		20	3.9
86-73-7	Fluorene	520		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	514		20	6.9
90-12-0	1-Methylnaphthalene	560		39	4.3
91-57-6	2-Methylnaphthalene	518		39	6.9
91-20-3	Naphthalene	480		39	4.3
85-01-8	Phenanthrene	485		7.8	3.8
129-00-0	Pyrene	580		20	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19006.D
Lab Smp Id: lcs 660-134575/2-a
Inj Date : 19-FEB-2013 15:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134575/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.360	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	1929802	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1544217	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2839629	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	382008	9.18133	597.7427
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	3148649	40.0000	
* 23 Perylene-d12	264	9.033	9.027	(1.000)	2975764	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	376759	7.36761	479.6618
3 2-Methylnaphthalene	142	4.251	4.257	(1.114)	264352	7.95028	517.5962
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	259937	8.59551	559.6036
5 Acenaphthylene	152	4.816	4.816	(0.982)	500353	8.14437	530.2323
7 Acenaphthene	154	4.921	4.921	(1.004)	287951	7.47314	486.5323
9 Fluorene	166	5.245	5.245	(1.070)	395296	7.99206	520.3164
11 Phenanthrene	178	5.874	5.874	(1.003)	631426	7.44949	484.9926
12 Anthracene	178	5.904	5.910	(1.008)	649868	8.50980	554.0234

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.016	6.015	(1.027)	575841	8.68094	565.1653
15 Fluoranthene	202	6.715	6.715	(1.147)	721501	8.71133	567.1440
16 Pyrene	202	6.880	6.886	(0.881)	747386	8.91606	580.4724
17 Benzo(a)anthracene	228	7.798	7.798	(0.998)	772372	8.89539	579.1269
19 Chrysene	228	7.827	7.827	(1.002)	686894	7.65861	498.6077
20 Benzo(b)fluoranthene	252	8.668	8.662	(0.960)	637446	8.73740	568.8411
21 Benzo(k)fluoranthene	252	8.692	8.686	(0.962)	681052	8.47360	551.6668
22 Benzo(a)pyrene	252	8.974	8.968	(0.993)	576318	8.30169	540.4747
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.251	(1.135)	526594	7.89755	514.1636(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.268	(1.137)	498324	7.92517	515.9616
26 Benzo(g,h,i)perylene	276	10.621	10.621	(1.176)	532111	7.85617	511.4690

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB19006.D

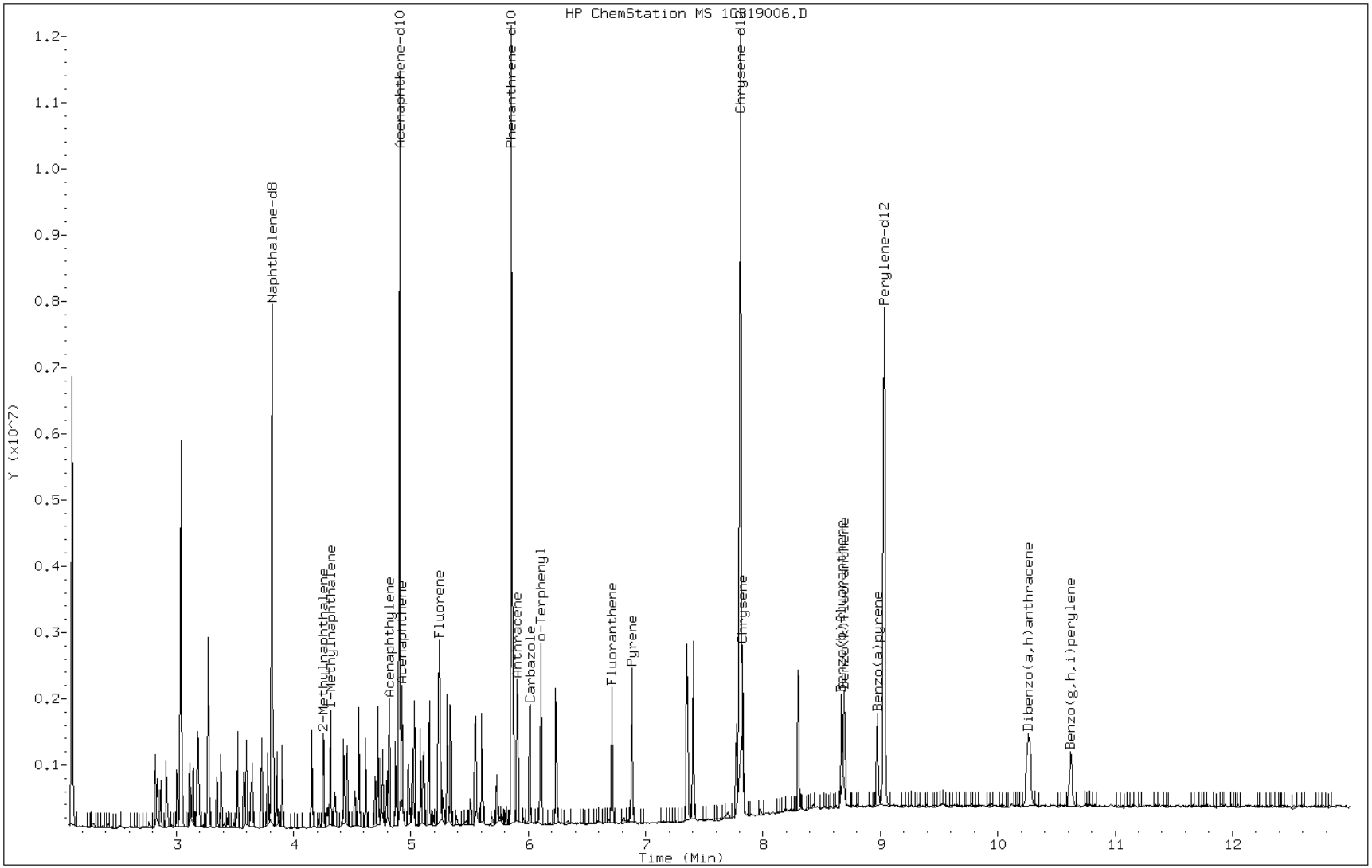
Date: 19-FEB-2013 15:05

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-134575/2-a

Operator: SCC



Manual Integration Report

Data File: 1CB19006.D
Inj. Date and Time: 19-FEB-2013 15:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

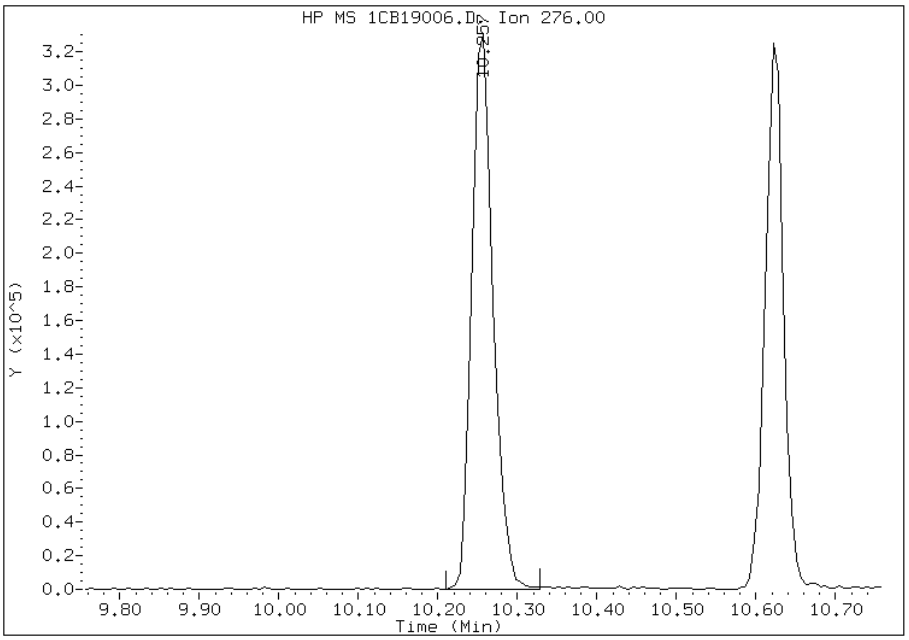
Processing Integration Results

RT: 10.26

Response: 613665

Amount: 9

Conc: 599



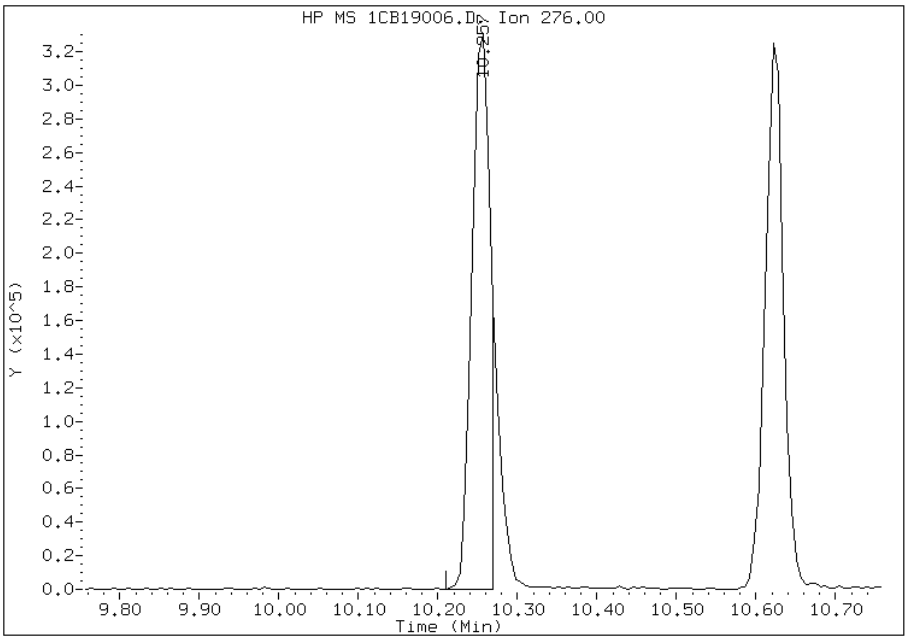
Manual Integration Results

RT: 10.26

Response: 526594

Amount: 8

Conc: 514



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87320-1
SDG No.: 68087320-1
Client Sample ID:
Lab Sample ID: 680-87320-A-21-B MS
Matrix: Solid
Lab File ID: 1CB19016.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/18/2013 11:03
Sample wt/vol: 15.21(g)
Date Analyzed: 02/19/2013 18:07
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 27.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134673
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	641		540	110
208-96-8	Acenaphthylene	795		220	27
120-12-7	Anthracene	862		45	23
56-55-3	Benzo[a]anthracene	1230		43	21
50-32-8	Benzo[a]pyrene	1190		56	28
205-99-2	Benzo[b]fluoranthene	1680		66	33
191-24-2	Benzo[g,h,i]perylene	1020		110	24
207-08-9	Benzo[k]fluoranthene	1000		43	19
218-01-9	Chrysene	1290		49	24
53-70-3	Dibenz(a,h)anthracene	796		110	22
206-44-0	Fluoranthene	1470		110	22
86-73-7	Fluorene	735		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	972		110	38
90-12-0	1-Methylnaphthalene	920		220	24
91-57-6	2-Methylnaphthalene	848		220	38
91-20-3	Naphthalene	843		220	24
85-01-8	Phenanthrene	1100		43	21
129-00-0	Pyrene	1620		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19016.D
Lab Smp Id: 680-87320-a-21-b ms
Inj Date : 19-FEB-2013 18:07
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-21-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 16 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.210	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	2153571	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1647626	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2961943	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	104657	2.41149	634.1865
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2919460	40.0000	
* 23 Perylene-d12	264	9.021	9.027	(1.000)	2747924	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	133355	2.33682	614.5488
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	87297	2.35262	618.7046
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	86127	2.55209	671.1618
5 Acenaphthylene	152	4.816	4.816	(0.982)	144488	2.20426	579.6864
7 Acenaphthene	154	4.921	4.921	(1.004)	73139	1.77903	467.8577
9 Fluorene	166	5.245	5.245	(1.070)	107628	2.03944	536.3423
11 Phenanthrene	178	5.874	5.874	(1.003)	270217	3.05634	803.7708
12 Anthracene	178	5.904	5.910	(1.008)	190492	2.39142	628.9073

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	164250	2.37386	624.2883
15 Fluoranthene	202	6.715	6.715	(1.147)	351063	4.06366	1068.6816(R)
16 Pyrene	202	6.880	6.886	(0.882)	349466	4.49629	1182.4569(R)
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	273959	3.40287	894.9041(R)
19 Chrysene	228	7.821	7.827	(1.002)	297159	3.57331	939.7273(R)
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	313310	4.65058	1223.0314(R)
21 Benzo(k)fluoranthene	252	8.680	8.686	(0.962)	206481	2.78203	731.6316
22 Benzo(a)pyrene	252	8.962	8.968	(0.993)	211628	3.30120	868.1646(R)
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.251	(1.135)	165941	2.69503	708.7530(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.138)	128225	2.20833	580.7565
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.177)	177198	2.83309	745.0608

QC Flag Legend

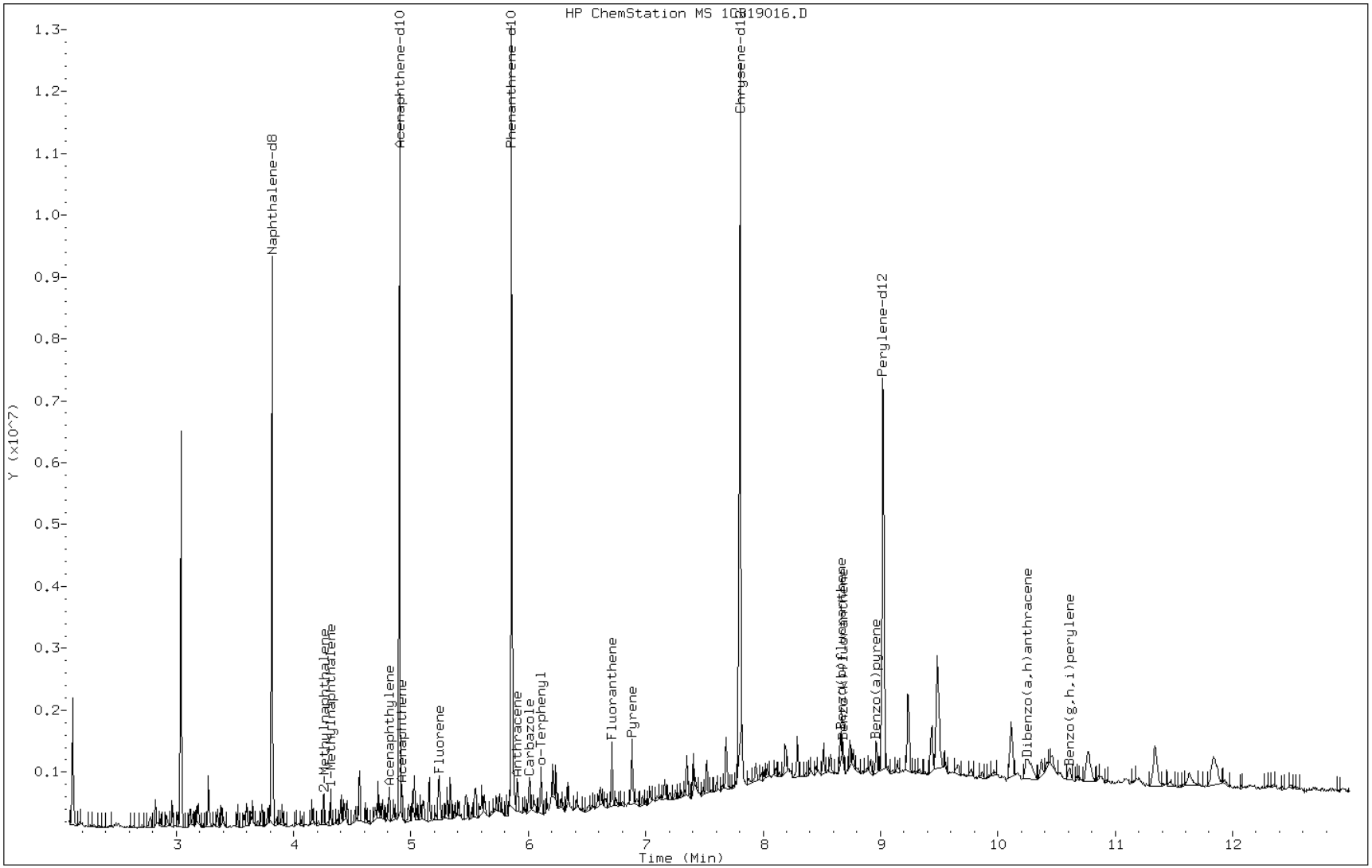
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB19016.D

Date: 19-FEB-2013 18:07

Client ID: Instrument: BSMC5973.i

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



Manual Integration Report

Data File: 1CB19016.D
Inj. Date and Time: 19-FEB-2013 18:07
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

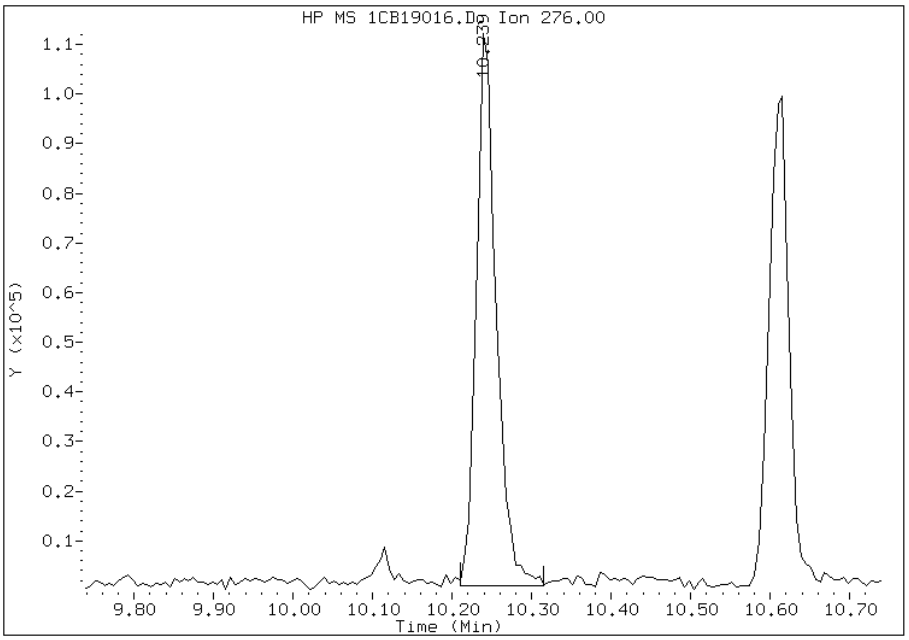
Processing Integration Results

RT: 10.24

Response: 193036

Amount: 3

Conc: 824



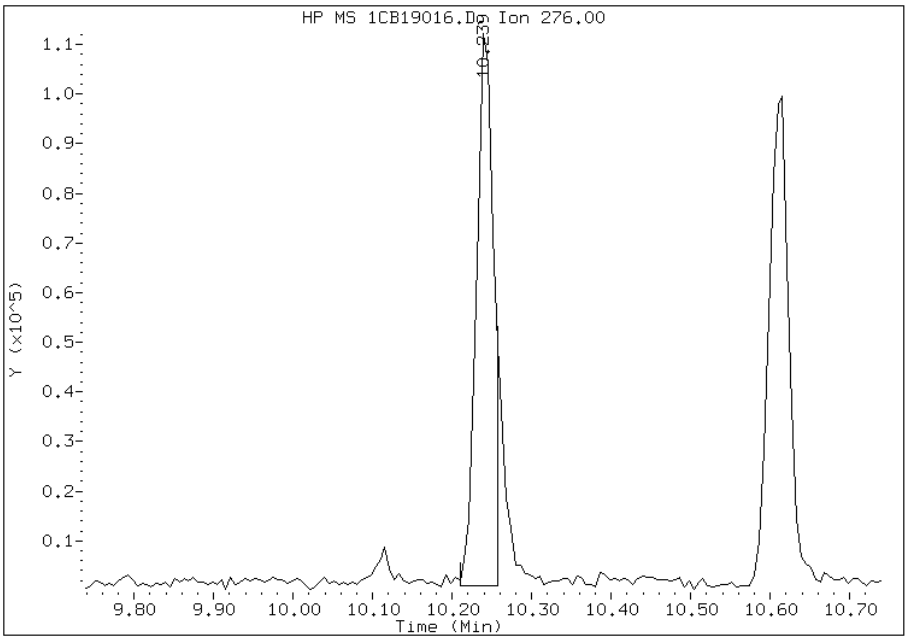
Manual Integration Results

RT: 10.24

Response: 165941

Amount: 3

Conc: 709



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: FM0018A-CS MS | Lab Sample ID: 680-87320-1 MS

Matrix: Solid | Lab File ID: 1AB19016.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:05

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 15.25(g) | Date Analyzed: 02/19/2013 15:42

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

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

% Moisture: 12.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	493		450	90
208-96-8	Acenaphthylene	481		180	22
120-12-7	Anthracene	572		38	19
56-55-3	Benzo[a]anthracene	730		36	18
50-32-8	Benzo[a]pyrene	474		47	23
205-99-2	Benzo[b]fluoranthene	499		55	27
191-24-2	Benzo[g,h,i]perylene	623		90	20
207-08-9	Benzo[k]fluoranthene	512		36	16
218-01-9	Chrysene	631		40	20
53-70-3	Dibenz(a,h)anthracene	503		90	18
206-44-0	Fluoranthene	619		90	18
86-73-7	Fluorene	541		90	18
193-39-5	Indeno[1,2,3-cd]pyrene	484		90	32
90-12-0	1-Methylnaphthalene	648		180	20
91-57-6	2-Methylnaphthalene	668		180	32
91-20-3	Naphthalene	552		180	20
85-01-8	Phenanthrene	744		36	18
129-00-0	Pyrene	621		90	17

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\1AB19016.D
Lab Smp Id: 680-87320-a-1-b ms
Inj Date : 19-FEB-2013 15:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-1-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 16 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	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	2.407	2.405	(1.000)	739106	40.0000	
* 6 Acenaphthene-d10	164	3.438	3.431	(1.000)	555534	40.0000	
* 10 Phenanthrene-d10	188	4.378	4.371	(1.000)	789269	40.0000	
$ 14 o-Terphenyl	230	4.656	4.649	(1.063)	27784	2.42264	635.4455
* 18 Chrysene-d12	240	6.403	6.390	(1.000)	581632	40.0000	
* 23 Perylene-d12	264	7.503	7.480	(1.000)	825797	40.0000	
2 Naphthalene	128	2.417	2.416	(1.004)	33017	1.84043	482.7357
3 2-Methylnaphthalene	141	2.823	2.816	(1.173)	21436	2.23042	585.0288
4 1-Methylnaphthalene	142	2.877	2.875	(1.195)	23519	2.16181	567.0324
5 Acenaphthylene	152	3.347	3.345	(0.974)	39362	1.60467	420.8966
7 Acenaphthene	154	3.454	3.447	(1.005)	21820	1.64350	431.0823
9 Fluorene	166	3.764	3.757	(1.095)	30138	1.80531	473.5235
11 Phenanthrene	178	4.389	4.387	(1.002)	53504	2.48274	651.2096
12 Anthracene	178	4.426	4.419	(1.011)	41903	1.90712	500.2269

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.581	4.574	(1.046)	35918	1.90707	500.2159
15 Fluoranthene	202	5.254	5.247	(1.200)	44110	2.06450	541.5091
16 Pyrene	202	5.420	5.413	(0.846)	43530	2.07230	543.5546
17 Benzo(a)anthracene	228	6.392	6.374	(0.998)	42310	2.43627	639.0206
19 Chrysene	228	6.413	6.406	(1.002)	35664	2.10684	552.6130
20 Benzo(b)fluoranthene	252	7.215	7.202	(0.962)	38351	1.66395	436.4455(H)
21 Benzo(k)fluoranthene	252	7.231	7.224	(0.964)	41135	1.70701	447.7411
22 Benzo(a)pyrene	252	7.444	7.432	(0.992)	34604	1.58104	414.6983
24 Indeno(1,2,3-cd)pyrene	276	8.224	8.212	(1.096)	27938	1.61655	424.0121(M)
25 Dibenzo(a,h)anthracene	278	8.240	8.228	(1.098)	28996	1.67825	440.1970
26 Benzo(g,h,i)perylene	276	8.438	8.420	(1.125)	37206	2.07801	545.0511

QC Flag Legend

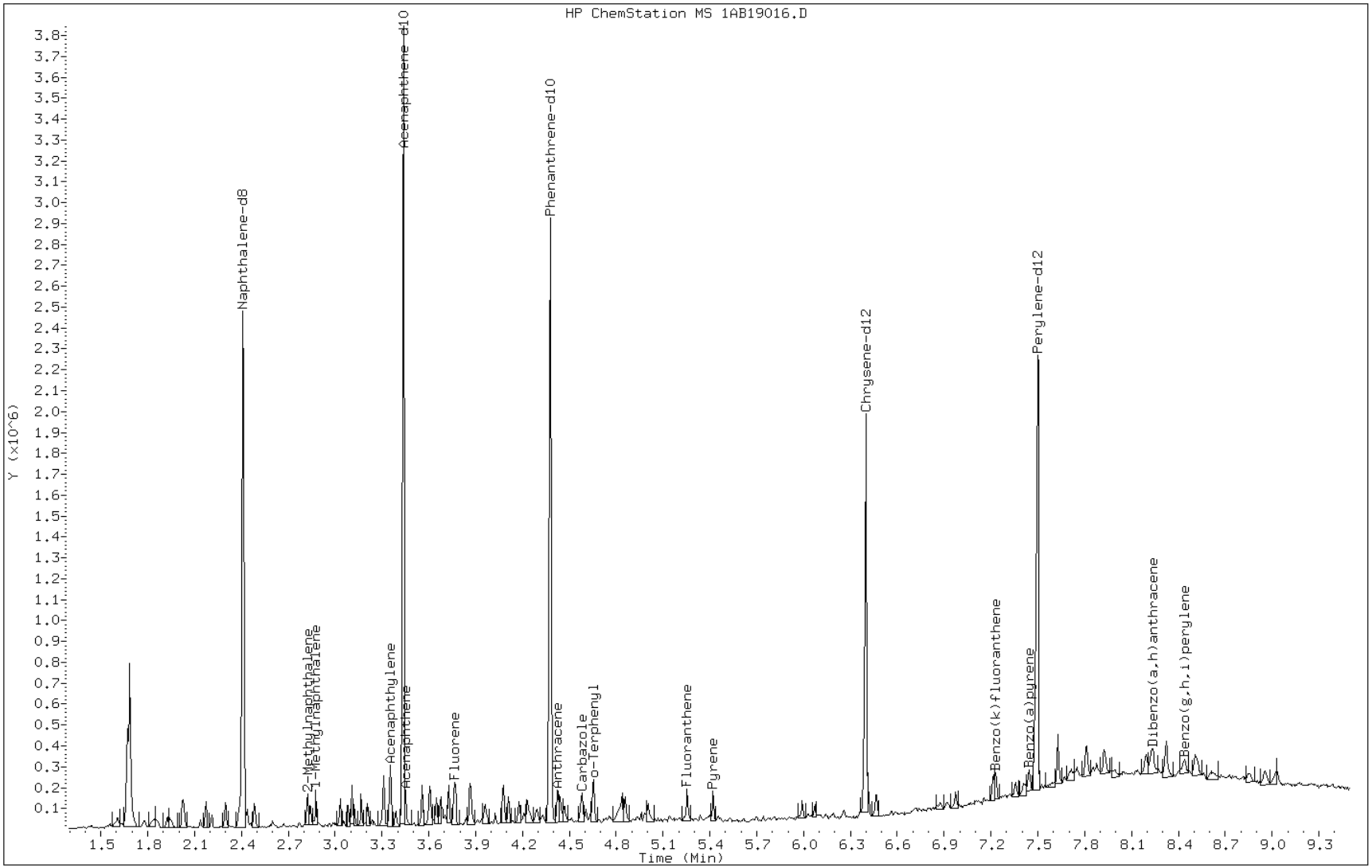
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB19016.D

Date: 19-FEB-2013 15:42

Client ID: Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-b ms Operator: SCC



Manual Integration Report

Data File: 1AB19016.D
Inj. Date and Time: 19-FEB-2013 15:42
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

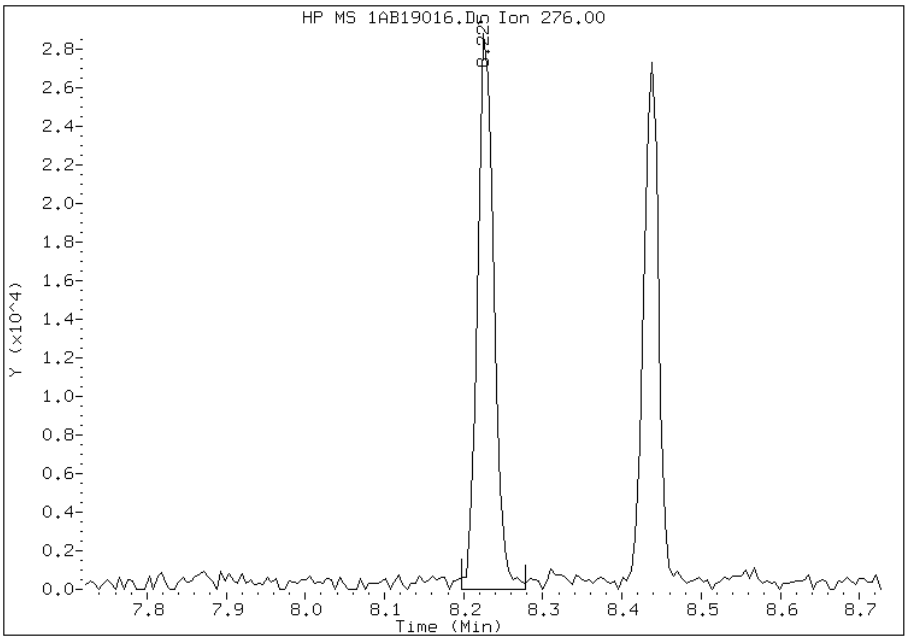
Processing Integration Results

RT: 8.22

Response: 41267

Amount: 2

Conc: 626



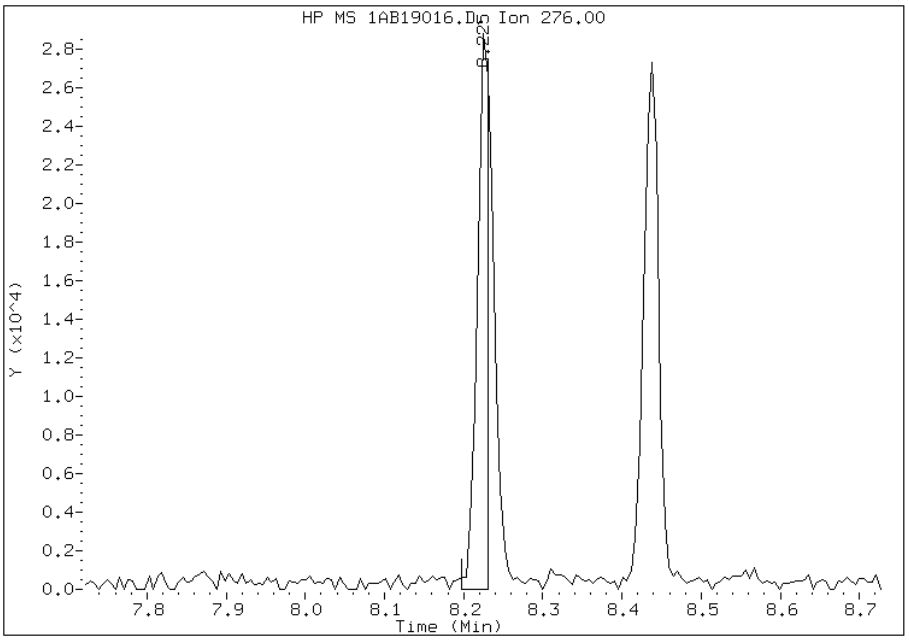
Manual Integration Results

RT: 8.22

Response: 27938

Amount: 2

Conc: 424



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87320-1
SDG No.: 68087320-1
Client Sample ID:
Lab Sample ID: 680-87320-A-21-C MSD
Matrix: Solid
Lab File ID: 1CB19017.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/18/2013 11:03
Sample wt/vol: 15.21(g)
Date Analyzed: 02/19/2013 18:26
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 27.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134673
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	856		540	110
208-96-8	Acenaphthylene	920		220	27
120-12-7	Anthracene	1040		45	23
56-55-3	Benzo[a]anthracene	1600		43	21
50-32-8	Benzo[a]pyrene	1510		56	28
205-99-2	Benzo[b]fluoranthene	2020		66	33
191-24-2	Benzo[g,h,i]perylene	1250		110	24
207-08-9	Benzo[k]fluoranthene	1350		43	19
218-01-9	Chrysene	1560		49	24
53-70-3	Dibenz(a,h)anthracene	933		110	22
206-44-0	Fluoranthene	1940		110	22
86-73-7	Fluorene	903		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	1140		110	38
90-12-0	1-Methylnaphthalene	1160		220	24
91-57-6	2-Methylnaphthalene	1040		220	38
91-20-3	Naphthalene	955		220	24
85-01-8	Phenanthrene	1460		43	21
129-00-0	Pyrene	2030		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\1CB19017.D
Lab Smp Id: 680-87320-a-21-c ms
Inj Date : 19-FEB-2013 18:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87320-a-21-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:22 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 17 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.210	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	2205129	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1659623	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2923400	40.0000	
$ 14 o-Terphenyl	230	6.110	6.110	(1.043)	117750	2.74895	722.9331
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	2881081	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	2721533	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	154816	2.64946	696.7679
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	109088	2.87115	755.0682
4 1-Methylnaphthalene	142	4.316	4.316	(1.131)	111089	3.21480	845.4427
5 Acenaphthylene	152	4.816	4.816	(0.982)	168454	2.55130	670.9527
7 Acenaphthene	154	4.921	4.921	(1.004)	98372	2.37550	624.7201
9 Fluorene	166	5.245	5.245	(1.070)	133184	2.50546	658.8978
11 Phenanthrene	178	5.874	5.874	(1.003)	354177	4.05880	1067.4029(R)
12 Anthracene	178	5.910	5.910	(1.009)	226247	2.87773	756.8001

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.015	6.015	(1.027)	202887	2.97093	781.3084
15 Fluoranthene	202	6.715	6.715	(1.147)	458543	5.37776	1414.2683(R)
16 Pyrene	202	6.880	6.886	(0.882)	432293	5.63605	1482.1960(R)
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	353165	4.44513	1169.0031(R)
19 Chrysene	228	7.821	7.827	(1.002)	355777	4.33518	1140.0868(R)
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	373053	5.59106	1470.3645(R)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	274869	3.73937	983.3978(R)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	265984	4.18933	1101.7311(R)
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.251	(1.135)	193242	3.16886	833.3623(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.268	(1.137)	148816	2.58780	680.5532
26 Benzo(g,h,i)perylene	276	10.615	10.621	(1.176)	214682	3.46568	911.4223(R)

QC Flag Legend

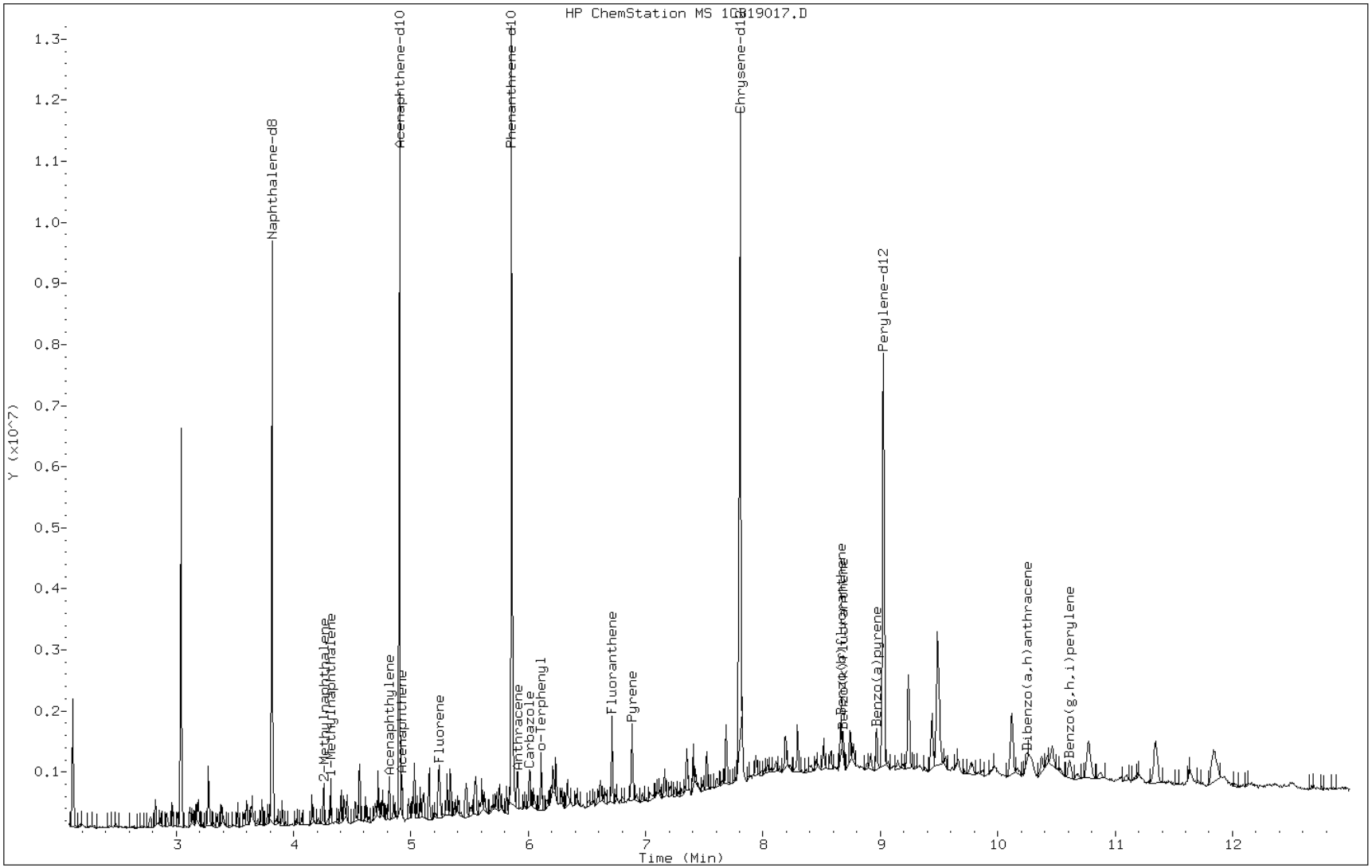
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB19017.D

Date: 19-FEB-2013 18:26

Client ID: Instrument: BSMC5973.i

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



Manual Integration Report

Data File: 1CB19017.D
Inj. Date and Time: 19-FEB-2013 18:26
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

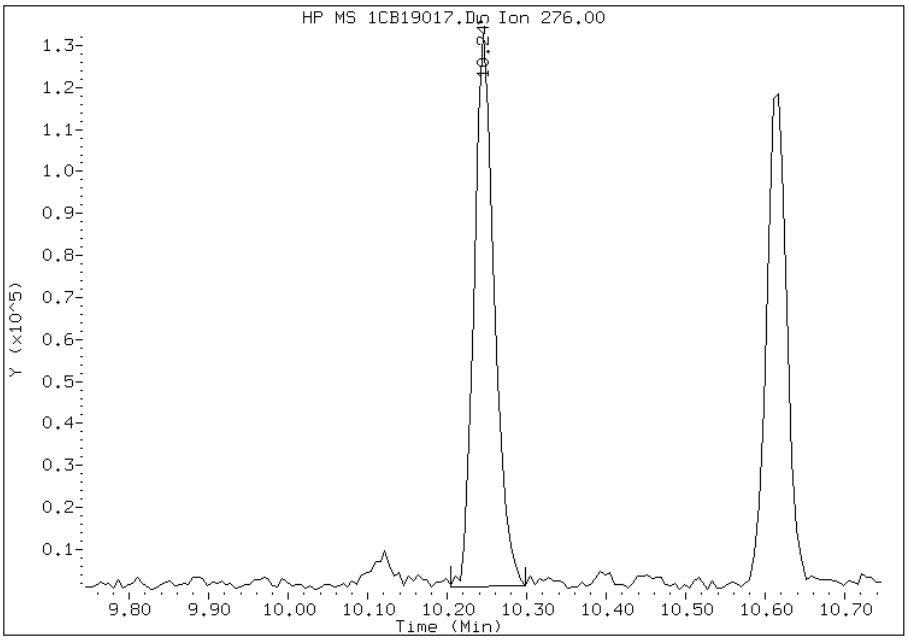
Processing Integration Results

RT: 10.25

Response: 232799

Amount: 4

Conc: 1004



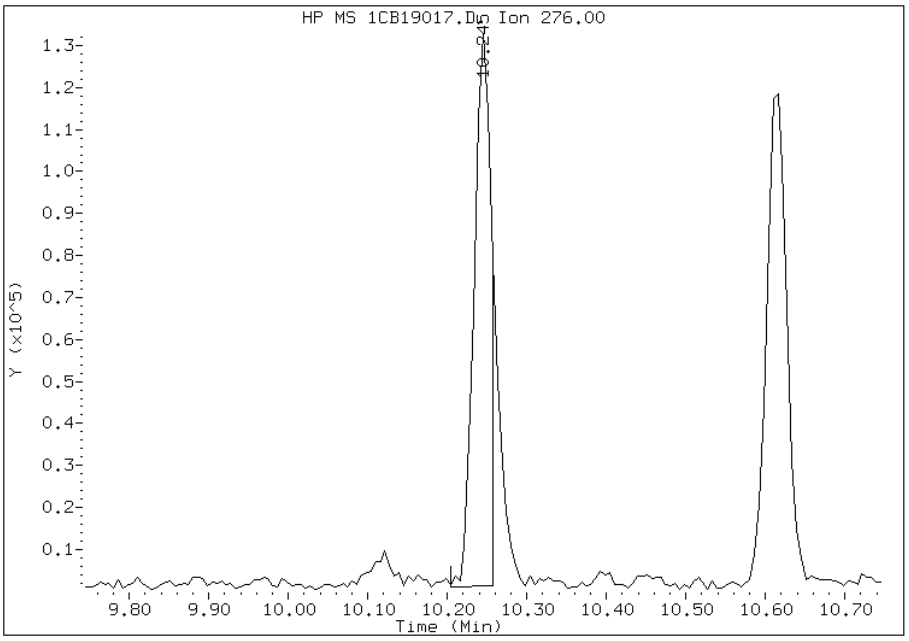
Manual Integration Results

RT: 10.25

Response: 193242

Amount: 3

Conc: 833



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 13:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87320-1

SDG No.: 68087320-1

Client Sample ID: FM0018A-CS MSD | Lab Sample ID: 680-87320-1 MSD

Matrix: Solid | Lab File ID: 1AB19017.D

Analysis Method: 8270C LL | Date Collected: 02/06/2013 09:05

Extract. Method: 3546 | Date Extracted: 02/15/2013 10:18

Sample wt/vol: 15.25(g) | Date Analyzed: 02/19/2013 15:57

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

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

% Moisture: 12.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134679 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	566		450	90
208-96-8	Acenaphthylene	545		180	22
120-12-7	Anthracene	655		38	19
56-55-3	Benzo[a]anthracene	797		36	18
50-32-8	Benzo[a]pyrene	500		47	23
205-99-2	Benzo[b]fluoranthene	571		55	27
191-24-2	Benzo[g,h,i]perylene	650		90	20
207-08-9	Benzo[k]fluoranthene	521		36	16
218-01-9	Chrysene	759		40	20
53-70-3	Dibenz(a,h)anthracene	680		90	18
206-44-0	Fluoranthene	763		90	18
86-73-7	Fluorene	602		90	18
193-39-5	Indeno[1,2,3-cd]pyrene	570		90	32
90-12-0	1-Methylnaphthalene	718		180	20
91-57-6	2-Methylnaphthalene	727		180	32
91-20-3	Naphthalene	652		180	20
85-01-8	Phenanthrene	859		36	18
129-00-0	Pyrene	693		90	17

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\1AB19017.D
Lab Smp Id: 680-87320-a-1-c msd
Inj Date : 19-FEB-2013 15:57
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87320-a-1-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021913.b\a-bFASTPAHi-m.m
Meth Date : 19-Feb-2013 11:05 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 17 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	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	2.407	2.405	(1.000)	731141	40.0000	
* 6 Acenaphthene-d10	164	3.438	3.431	(1.000)	522988	40.0000	
* 10 Phenanthrene-d10	188	4.379	4.371	(1.000)	762138	40.0000	
$ 14 o-Terphenyl	230	4.656	4.649	(1.063)	23975	2.16493	567.8499
* 18 Chrysene-d12	240	6.398	6.390	(1.000)	572506	40.0000	
* 23 Perylene-d12	264	7.498	7.480	(1.000)	764796	40.0000	
2 Naphthalene	128	2.418	2.416	(1.004)	38626	2.17654	570.8961
3 2-Methylnaphthalene	141	2.819	2.816	(1.171)	23051	2.42459	635.9586
4 1-Methylnaphthalene	142	2.877	2.875	(1.195)	25794	2.39675	628.6563
5 Acenaphthylene	152	3.348	3.345	(0.974)	41991	1.81837	476.9506
7 Acenaphthene	154	3.454	3.447	(1.005)	23594	1.88771	495.1376
9 Fluorene	166	3.764	3.757	(1.095)	31572	2.00890	526.9242
11 Phenanthrene	178	4.389	4.387	(1.002)	59650	2.86646	751.8590
12 Anthracene	178	4.421	4.419	(1.010)	46394	2.18668	573.5551

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.582	4.574	(1.046)	40238	2.21250	580.3275
15 Fluoranthene	202	5.255	5.247	(1.200)	52522	2.54572	667.7308
16 Pyrene	202	5.420	5.413	(0.847)	47815	2.31258	606.5783
17 Benzo(a)anthracene	228	6.393	6.374	(0.999)	45461	2.65943	697.5560
19 Chrysene	228	6.414	6.406	(1.002)	42207	2.53311	664.4216
20 Benzo(b)fluoranthene	252	7.210	7.202	(0.962)	40703	1.90685	500.1583
21 Benzo(k)fluoranthene	252	7.231	7.224	(0.964)	38801	1.73859	456.0223
22 Benzo(a)pyrene	252	7.445	7.432	(0.993)	33812	1.66807	437.5267
24 Indeno(1,2,3-cd)pyrene	276	8.225	8.212	(1.097)	30458	1.90293	499.1281(M)
25 Dibenzo(a,h)anthracene	278	8.241	8.228	(1.099)	36329	2.27039	595.5115
26 Benzo(g,h,i)perylene	276	8.439	8.420	(1.125)	35967	2.16903	568.9265

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AB19017.D

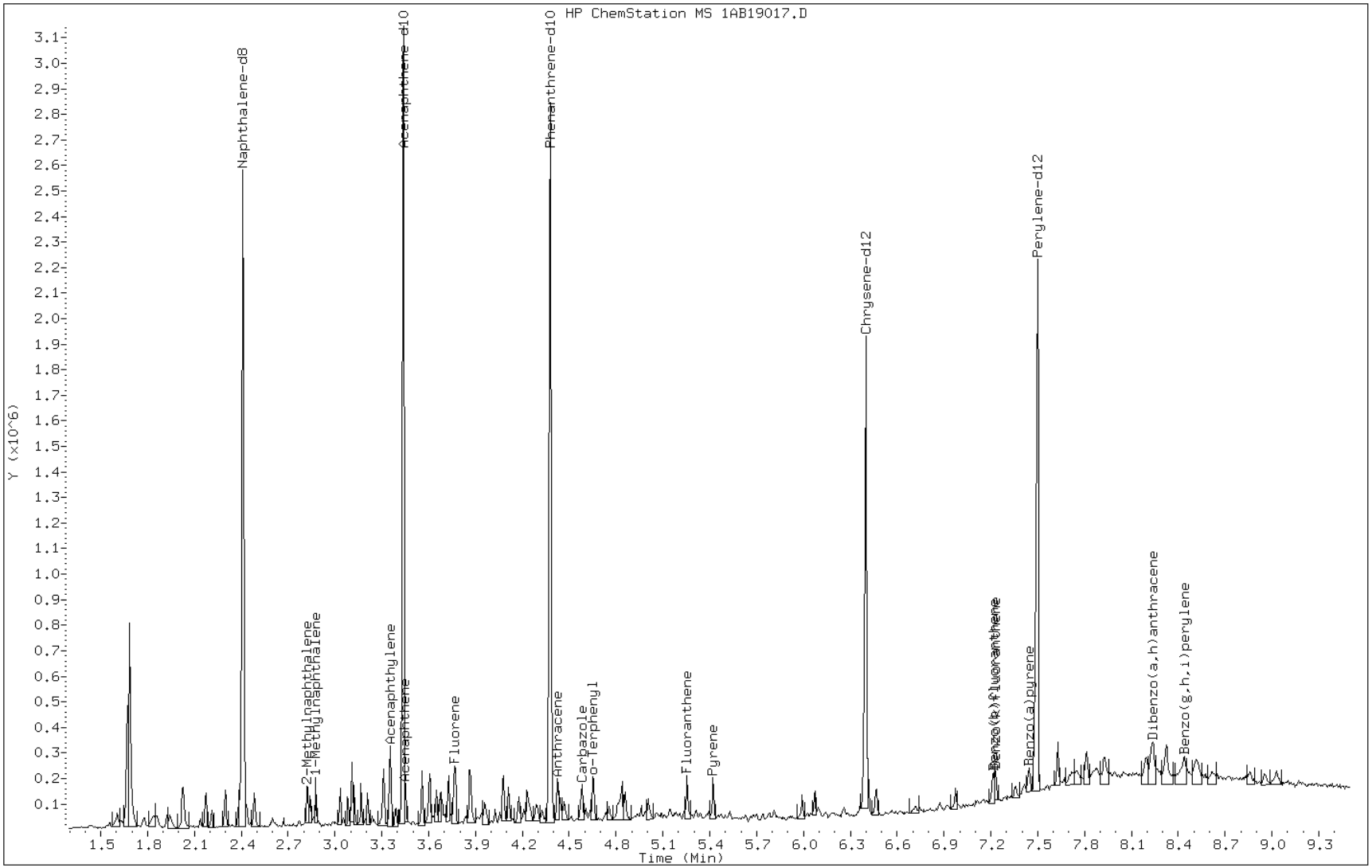
Date: 19-FEB-2013 15:57

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-87320-a-1-c msd

Operator: SCC



Manual Integration Report

Data File: 1AB19017.D
Inj. Date and Time: 19-FEB-2013 15:57
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/20/2013

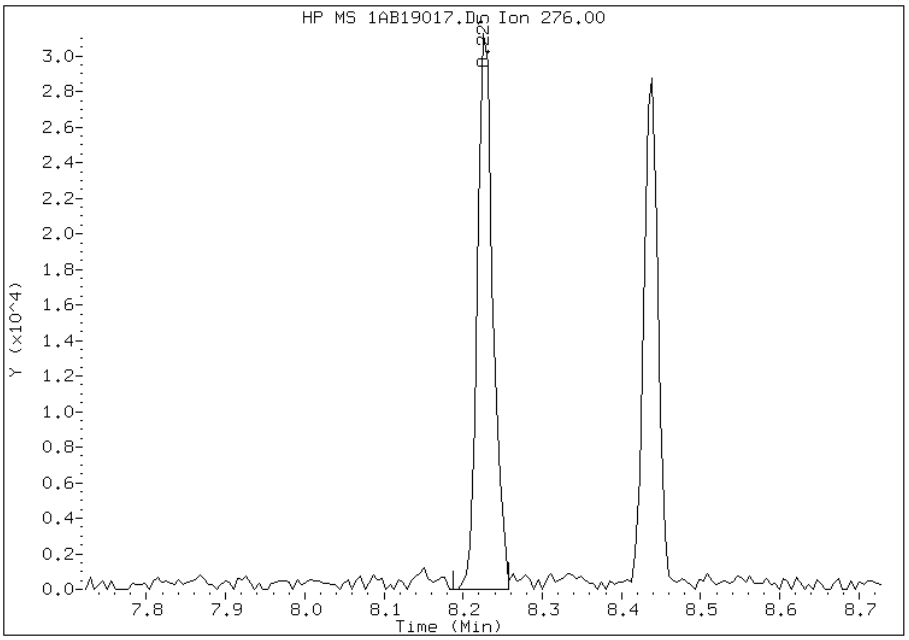
Processing Integration Results

RT: 8.23

Response: 42386

Amount: 3

Conc: 695



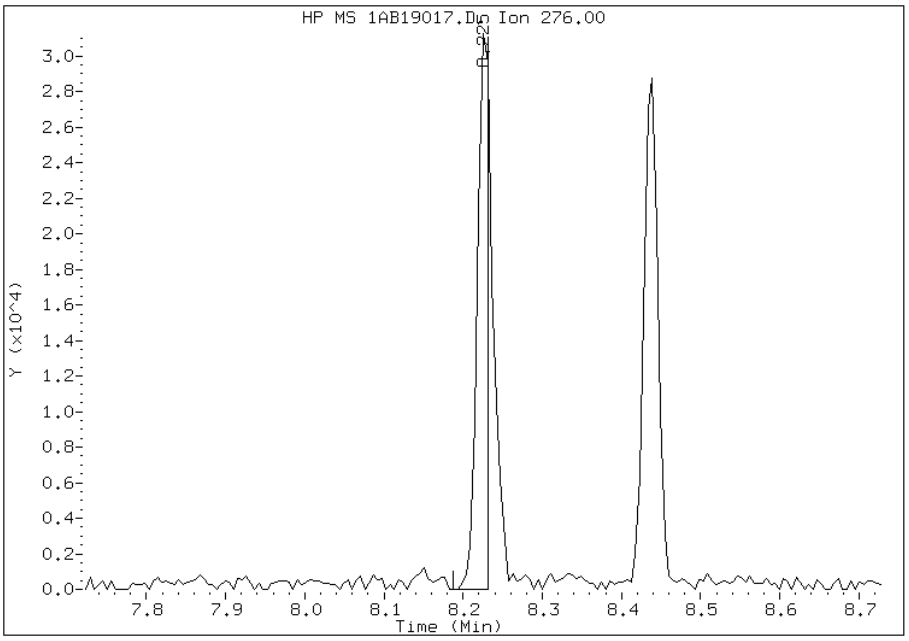
Manual Integration Results

RT: 8.23

Response: 30458

Amount: 2

Conc: 499



Manually Integrated By: cantins
Modification Date: 20-Feb-2013 16:30
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

Instrument ID: BSMA5973 Start Date: 02/19/2013 10:08

Analysis Batch Number: 134679 End Date: 02/19/2013 18:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/19/2013 10:08	1		DB-5MS 250(um)
ZZZZZ		02/19/2013 10:23	1		DB-5MS 250(um)
DFTPP 660-134679/2		02/19/2013 10:38	1	1AB19002.D	DB-5MS 250(um)
CCVIS 660-134679/3		02/19/2013 10:52	1	1AB19003.D	DB-5MS 250(um)
ZZZZZ		02/19/2013 11:11	1		DB-5MS 250(um)
MB 660-134515/1-A		02/19/2013 12:56	1	1AB19005.D	DB-5MS 250(um)
LCS 660-134515/2-A		02/19/2013 13:11	1	1AB19006.D	DB-5MS 250(um)
ZZZZZ		02/19/2013 13:26	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 13:41	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 13:56	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 14:11	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 14:27	1		DB-5MS 250(um)
ZZZZZ		02/19/2013 14:42	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 14:57	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 15:12	1		DB-5MS 250(um)
680-87320-1	FM0018A-CS	02/19/2013 15:27	4	1AB19015.D	DB-5MS 250(um)
680-87320-1 MS	FM0018A-CS MS	02/19/2013 15:42	4	1AB19016.D	DB-5MS 250(um)
680-87320-1 MSD	FM0018A-CS MSD	02/19/2013 15:57	4	1AB19017.D	DB-5MS 250(um)
680-87320-2	FM0034A-CS	02/19/2013 16:13	4	1AB19018.D	DB-5MS 250(um)
680-87320-3	FM0123A-CS	02/19/2013 16:27	4	1AB19019.D	DB-5MS 250(um)
680-87320-4	FM0123A-CSD	02/19/2013 16:42	4	1AB19020.D	DB-5MS 250(um)
680-87320-5	FM0138C-CS	02/19/2013 16:58	1	1AB19021.D	DB-5MS 250(um)
680-87320-6	FM0153B-CS	02/19/2013 17:13	4	1AB19022.D	DB-5MS 250(um)
680-87320-7	CV0748W-CS	02/19/2013 17:28	4	1AB19023.D	DB-5MS 250(um)
680-87320-8	CV0748Y-CS	02/19/2013 17:43	4	1AB19024.D	DB-5MS 250(um)
680-87320-9	CV0748AA-CS	02/19/2013 17:58	1	1AB19025.D	DB-5MS 250(um)
680-87320-10	CV0748BB-CS	02/19/2013 18:13	4	1AB19026.D	DB-5MS 250(um)
680-87320-11	CV0748CC-CS	02/19/2013 18:28	4	1AB19027.D	DB-5MS 250(um)
680-87320-12	CV0748DD-CS	02/19/2013 18:43	4	1AB19028.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

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.: 680-87320-1

SDG No.: 68087320-1

Instrument ID: BSMC5973 Start Date: 02/19/2013 10:11

Analysis Batch Number: 134673 End Date: 02/19/2013 21:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/19/2013 10:11	1		DB-5MS 250(um)
ZZZZZ		02/19/2013 10:31	1		DB-5MS 250(um)
DFTPP 660-134673/2		02/19/2013 10:50	1	1CB19002.D	DB-5MS 250(um)
CCVIS 660-134673/3		02/19/2013 11:06	1	1CB19003.D	DB-5MS 250(um)
ZZZZZ		02/19/2013 11:25	1		DB-5MS 250(um)
MB 660-134575/1-A		02/19/2013 14:47	1	1CB19005.D	DB-5MS 250(um)
LCS 660-134575/2-A		02/19/2013 15:05	1	1CB19006.D	DB-5MS 250(um)
680-87320-13	CV0748EE-CS	02/19/2013 15:23	4	1CB19007.D	DB-5MS 250(um)
680-87320-14	CV0748II-CS	02/19/2013 15:41	4	1CB19008.D	DB-5MS 250(um)
680-87320-15	CV0748JJ-CS	02/19/2013 16:00	4	1CB19009.D	DB-5MS 250(um)
680-87320-16	CV0748NN-CS	02/19/2013 16:18	4	1CB19010.D	DB-5MS 250(um)
680-87320-17	CV0748OO-CS	02/19/2013 16:36	4	1CB19011.D	DB-5MS 250(um)
680-87320-18	CV0748QQ-CS	02/19/2013 16:55	4	1CB19012.D	DB-5MS 250(um)
680-87320-19	CV0748AC-GS	02/19/2013 17:13	4	1CB19013.D	DB-5MS 250(um)
680-87320-20	CV0748AB-GS	02/19/2013 17:31	4	1CB19014.D	DB-5MS 250(um)
ZZZZZ		02/19/2013 17:49	4		DB-5MS 250(um)
680-87320-A-21-B MS		02/19/2013 18:07	4	1CB19016.D	DB-5MS 250(um)
680-87320-A-21-C MSD		02/19/2013 18:26	4	1CB19017.D	DB-5MS 250(um)
ZZZZZ		02/19/2013 18:44	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 19:02	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 19:21	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 19:39	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 19:57	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 20:15	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 20:34	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 20:52	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 21:10	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 21:28	4		DB-5MS 250(um)
ZZZZZ		02/19/2013 21:47	4		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Batch Number: 134515 Batch Start Date: 02/15/13 10:18 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/18/13 17:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00016	EX-625LVI SPK 00017	EXLLSURINT 00175	
MB 660-134515/1		3546, 8270C LL		15.00 g	1 mL			1 mL	
LCS 660-134515/2		3546, 8270C LL		15.12 g	1 mL	1 mL		1 mL	
680-87320-A-1	FM0018A-CS	3546, 8270C LL	T	15.25 g	1 mL			1 mL	
680-87320-A-1 MS	FM0018A-CS	3546, 8270C LL	T	15.25 g	1 mL	1 mL		1 mL	
680-87320-A-1 MSD	FM0018A-CS	3546, 8270C LL	T	15.25 g	1 mL		1 mL	1 mL	
680-87320-A-2	FM0034A-CS	3546, 8270C LL	T	14.94 g	1 mL			1 mL	
680-87320-A-3	FM0123A-CS	3546, 8270C LL	T	15.06 g	1 mL			1 mL	
680-87320-A-4	FM0123A-CSD	3546, 8270C LL	T	15.49 g	1 mL			1 mL	
680-87320-A-5	FM0138C-CS	3546, 8270C LL	T	15.32 g	1 mL			1 mL	
680-87320-A-6	FM0153B-CS	3546, 8270C LL	T	15.17 g	1 mL			1 mL	
680-87320-A-7	CV0748W-CS	3546, 8270C LL	T	15.07 g	1 mL			1 mL	
680-87320-A-8	CV0748Y-CS	3546, 8270C LL	T	15.28 g	1 mL			1 mL	
680-87320-A-9	CV0748AA-CS	3546, 8270C LL	T	15.48 g	1 mL			1 mL	
680-87320-A-10	CV0748BB-CS	3546, 8270C LL	T	15.11 g	1 mL			1 mL	
680-87320-A-11	CV0748CC-CS	3546, 8270C LL	T	14.96 g	1 mL			1 mL	
680-87320-A-12	CV0748DD-CS	3546, 8270C LL	T	15.33 g	1 mL			1 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Batch Number: 134515 Batch Start Date: 02/15/13 10:18 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/18/13 17:30

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_18
Microwave Start Time	10:50 2/18/13
Microwave Stop Time	11:25 2/18/13
Na2SO4 Lot Number	EX-AN2S04A_62
Ottawa Sand Lot #	EX-OTTOWA SAND_10
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT_175
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.: 680-87320-1

SDG No.: 68087320-1

Batch Number: 134575 Batch Start Date: 02/18/13 11:03 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/19/13 10:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00175		
MB 660-134575/1		3546, 8270C LL		15.17 g	1 mL		1 mL		
LCS 660-134575/2		3546, 8270C LL		15.36 g	1 mL	1 mL	1 mL		
680-87320-A-13	CV0748EE-CS	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-87320-A-14	CV0748II-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-87320-A-15	CV0748JJ-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-87320-A-16	CV0748NN-CS	3546, 8270C LL	T	15.23 g	1 mL		1 mL		
680-87320-A-17	CV0748OO-CS	3546, 8270C LL	T	15.25 g	1 mL		1 mL		
680-87320-A-18	CV0748QQ-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-87320-A-19	CV0748AC-GS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-87320-A-20	CV0748AB-GS	3546, 8270C LL	T	15.29 g	1 mL		1 mL		
680-87320-A-21 MS		3546, 8270C LL	T	15.21 g	1 mL	1 mL	1 mL		
680-87320-A-21 MSD		3546, 8270C LL	T	15.21 g	1 mL	1 mL	1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Batch Number: 134575 Batch Start Date: 02/18/13 11:03 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/19/13 10:25

Batch Notes	
Acetone Lot #	EX ACETON BOT _50
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _52
MeCl2/Acetone Lot #	EX DCM/ACETON _18
Microwave Start Time	14.00/2/18/13
Microwave Stop Time	14.35/2/18/13
Na2SO4 Lot Number	EX NA2S04 A_62
Ottawa Sand Lot #	ex-ottowa sand_10
Person's name who did the prep	SAUREL
SOP Number	T P EX 014
Person who witnessed spiking	AG
Surrogate Lot Number	EX LLSURINT _175
Water Bath ID	TURBOVAP2#1/2/3
Water Bath Temperature	40 C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87320-1

SDG No.: 68087320-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
FM0018A-CS	680-87320-1
FM0034A-CS	680-87320-2
FM0123A-CS	680-87320-3
FM0123A-CSD	680-87320-4
FM0138C-CS	680-87320-5
FM0153B-CS	680-87320-6
CV0748W-CS	680-87320-7
CV0748Y-CS	680-87320-8
CV0748AA-CS	680-87320-9
CV0748BB-CS	680-87320-10
CV0748CC-CS	680-87320-11
CV0748DD-CS	680-87320-12
CV0748EE-CS	680-87320-13
CV0748II-CS	680-87320-14
CV0748JJ-CS	680-87320-15
CV0748NN-CS	680-87320-16
CV0748OO-CS	680-87320-17
CV0748QQ-CS	680-87320-18
CV0748AC-GS	680-87320-19
CV0748AB-GS	680-87320-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87320-1

SDG Number: 68087320-1

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: 680-87320-1

SDG Number: 68087320-1

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Instrument ID: Moisture Method: Moisture

Start Date: 02/13/2013 06:34 End Date: 02/13/2013 10:04

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134421/22	1	T	06:34	X																			
LCS 660-134421/1	1	T	06:35	X																			
ZZZZZZ			06:46																				
ZZZZZZ			06:47																				
ZZZZZZ			07:00																				
680-87320-1	1	T	07:07	X																			
680-87320-1 MS	1	T	07:28	X																			
680-87320-1 MSD	1	T	07:33	X																			
680-87320-2	1	T	07:52	X																			
680-87320-3	1	T	08:05	X																			
680-87320-4	1	T	08:08	X																			
680-87320-5	1	T	08:21	X																			
680-87320-6	1	T	08:24	X																			
680-87320-7	1	T	08:42	X																			
680-87320-8	1	T	08:43	X																			
680-87320-10	1	T	09:04	X																			
680-87320-9	1	T	09:07	X																			
680-87320-11	1	T	09:23	X																			
680-87320-12	1	T	09:27	X																			
680-87320-13	1	T	09:43	X																			
680-87320-14	1	T	09:49	X																			
680-87320-15	1	T	10:04	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Instrument ID: Moisture Method: Moisture

Start Date: 02/13/2013 10:20 End Date: 02/13/2013 14:12

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134441/17	1	T	10:20	X																			
LCS 660-134441/1	1	T	10:22	X																			
680-87320-17	1	T	10:40	X																			
680-87320-16	1	T	10:41	X																			
ZZZZZZ			11:29																				
680-87320-18	1	T	11:37	X																			
680-87320-19	1	T	12:02	X																			
680-87320-20	1	T	12:08	X																			
ZZZZZZ			12:34																				
680-87320-A-21 MS	1	T	12:40	X																			
680-87320-A-21 MSD	1	T	12:56	X																			
ZZZZZZ			13:09																				
ZZZZZZ			13:25																				
ZZZZZZ			13:34																				
ZZZZZZ			13:47																				
ZZZZZZ			14:11																				
ZZZZZZ			14:12																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Batch Number: 134421 Batch Start Date: 02/13/13 06:34 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134421/1		Moisture		0 g	10.015 g	9.01 g			
680-87320-A-1 MS	FM0018A-CS	Moisture	T	0 g	4.007 g	3.171 g			
680-87320-A-2	FM0034A-CS	Moisture	T	0 g	4.171 g	3.281 g			
680-87320-A-4	FM0123A-CSD	Moisture	T	0 g	4.481 g	3.443 g			
680-87320-A-6	FM0153B-CS	Moisture	T	0 g	4.178 g	3.389 g			
680-87320-A-8	CV0748Y-CS	Moisture	T	0 g	4.208 g	3.047 g			
680-87320-A-10	CV0748BB-CS	Moisture	T	0 g	4.481 g	3.646 g			
680-87320-A-12	CV0748DD-CS	Moisture	T	0 g	4.517 g	3.437 g			
680-87320-A-14	CV0748II-CS	Moisture	T	0 g	4.251 g	3.241 g			
680-87320-A-15	CV0748JJ-CS	Moisture	T	0 g	4.418 g	3.461 g			
680-87320-A-13	CV0748EE-CS	Moisture	T	0 g	4.409 g	3.416 g			
680-87320-A-11	CV0748CC-CS	Moisture	T	0 g	4.281 g	3.133 g			
680-87320-A-9	CV0748AA-CS	Moisture	T	0 g	4.378 g	3.553 g			
680-87320-A-7	CV0748W-CS	Moisture	T	0 g	4.254 g	3.159 g			
680-87320-A-5	FM0138C-CS	Moisture	T	0 g	4.263 g	3.712 g			
680-87320-A-3	FM0123A-CS	Moisture	T	0 g	4.441 g	3.344 g			
680-87320-A-1 MSD	FM0018A-CS	Moisture	T	0 g	4.132 g	2.977 g			
680-87320-A-1	FM0018A-CS	Moisture	T	0 g	4.544 g	3.977 g			
LCSD 660-134421/22		Moisture		0 g	10.021 g	9.005 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87320-1

SDG No.: 68087320-1

Batch Number: 134441 Batch Start Date: 02/13/13 10:20 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134441/1		Moisture		0 g	10.044 g	9.031 g			
680-87320-A-16	CV0748NN-CS	Moisture	T	0 g	4.651 g	3.811 g			
680-87320-A-19	CV0748AC-GS	Moisture	T	0 g	4.206 g	2.827 g			
680-87320-A-21 MSD		Moisture	T	0 g	4.304 g	3.099 g			
680-87320-A-21 MS		Moisture	T	0 g	4.813 g	3.45 g			
680-87320-A-20	CV0748AB-GS	Moisture	T	0 g	4.656 g	3.131 g			
680-87320-A-18	CV0748QQ-CS	Moisture	T	0 g	4.302 g	3.177 g			
680-87320-A-17	CV0748OO-CS	Moisture	T	0 g	4.19 g	3.13 g			
LCSD 660-134441/17		Moisture		0 g	10.033 g	9.02 g			

Batch Notes	
Oven ID	hb43-1, hb43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 59515

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:

✓ = rcvd 2-8-13
X = rcvd 2-9-13

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Haney		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
R. Henderson	678 355-5550	

CLIENT NAME	CLIENT E-MAIL
DTIE	Lkrebs@dtie.com

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 6

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH	BCAA 8									REMARKS
								PRESERVATIVE										
2/6/13	0905	FM00018A-CS	C		✓			X										
	0855	FM00018B-CS	C		✓			X										
	0859	FM00018C-CS	C		✓			X										
	1020	FM00034A-CS	C		✓			X										
	1024	FM00034B-CS	C		✓			X										
	0834	FM0123A-CS	C		✓			X										
	0837	FM0123B-CS	C		✓			X										
	0840	FM0123A-CSD	C		✓			X										
	1040	FM0138A-CS	C		✓			X										
	1043	FM0138B-CS	C		✓			X	X									
	1045	FM0138C-CS	C		✓			X										
	1124	FM0139A-CS	C		✓			X	X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/7/13	1800						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	~~02/08/13~~ 2/9/13	0916 @ 0934	YES ○ NO ○		~~87219~~ 87320	~~4°C~~ 5.0 (MH)

TAL8240-680 (1008)

Serial Number 59516

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.: 200518-1356	PROJECT LOCATION (STATE): AL	PAGE 2 OF 6
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ○
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 6783555550	CLIENT FAX	DATE DUE
CLIENT NAME: DME	CLIENT E-MAIL: Lkrebs@dme.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LLPAH, RCRA 8

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH	RCRA 8									REMARKS
01/16/13	1130	FM0139B-CS	C		✓			X										
	1135	FM0139C-CS	C		✓			X										
	1002	FM0153A-CS	C		✓			X										
	0958	FM0153B-CS	C		✓			X										
	0851	CU07486-CS	C		✓			X										
	0854	CU07487-CS	C		✓			X										
	0906	CU07484-CS	C		✓			X										
	0909	CU07487-CS	C		✓			X										
	0929	CU0748AA-CS	C		✓			X										
	0924	CU0748BB-CS	C		✓			X										
	0937	CU0748CC-CS	C		✓			X										
	0939	CU0748DD-CS	C		✓			X	X									

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	01/17/13	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]	~~02/01/13~~ 01/17/13	~~0916~~ @ 0934	YES ○ NO ○		~~87279~~ 87320	5.0°C (Int)

TAL8240-680 (1008)

Serial Number 59517

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	200548-1356	AL	3	6

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Haney		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
A. Henderson	678 3555550	

CLIENT NAME	CLIENT E-MAIL
ONE	LWebs@one.com

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LUFT

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
2/6/13	0945	CU0748EE-CS	C		✓			X	
	0949	CU0748FF-CS	C		✓			X	
	0952	CU0748GG-CS	C		✓			X	
	1010	CU0748HH-CS	C		✓			X	
	1011	CU0748II-CS	C		✓			X	
	1032	CU0748JJ-CS	C		✓			X	
	1041	CU0748KK-CS	C		✓			X	
	1048	CU0748LL-CS	C		✓			X	
	1050	CU0748MM-CS	C		✓			X	
	1106	CU0748NN-CS	C		✓			X	
	1108	CU0748OO-CS	C		✓			X	
	1110	CU0748PP-CS	C		✓			X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
L Webs	2/7/13	1800						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	2/9/13	0934	YES ○ NO ○		~~87279~~ 87320	~~4.8°~~ 5.0° (VWT)

Page 679 of 683

02/21/2013

TAL8240-680 (1008)

Serial Number 59518

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148 1356	PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER: Lisa Haney	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 6783555550	CLIENT FAX:
CLIENT NAME: OTIE	CLIENT E-MAIL: LHebsc@otie.com	
CLIENT ADDRESS:		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 4 OF 6

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: UCRA, RCRA8

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION		COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	UCRA	RCRA8								REMARKS
2/6/13	1112	CU0748 QQ-CS	X	C		✓			X									
	1014	CU0748 AC-GS	X	G		✓			X									
	0918	CU0748 AB-GS	X	G		✓			X									
	1306	CU0748 AD-GS	X	G		✓			X									
	1530	CU0748 AE-GS	X	G		✓			X									
	1303	CU0748 RR-CS	X	C		✓			X									
	1326	CU0748 SS-CS	X	C		✓			X									
	1324	CU0748 TT-CS	X	C		✓			X									
	1349	CU0748 UU-CS	X	C		✓			X									
	1354	CU0748 VV-CS	✓	C		✓			X									
	1357	CU0748 WW-CS	✓ X	C		✓			X	X		Metals = ✓		MA =	X			
	1407	CU0748 XX-CS	X	C		✓			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/7/13	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

2/9/13 0934

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	~~02/09/13~~	~~0976~~	YES ○ NO ○		~~87279~~ 87320	~~4.0~~ 5.0 (MH)

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-1
SDG Number: 68087320-1

Login Number: 87320
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	Second cooler - missing from Friday receipt.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-1
SDG Number: 68087320-1

Login Number: 87320
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 02/12/13 09:53 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87320-1
SDG Number: 68087320-1

Login Number: 87320
List Number: 2
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 02/12/13 09:54 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	