REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica – Tampa, FL	Job ID.:	680-88420-2
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Date(s) Collected:	03/14/2013 & 3/15/2013
Reviewer:	Karen Marie Trujillo	Date:	04/03/2013
Concurrence[2]:	Sarah Choyke	Date:	04/10/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?			✓		

[2] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.		✓		According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank was not collected during the week of 3/11/13. Blank contamination will be evaluated based on method blank results.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• Initial Calibration: 03/15/2013, instrument BSMA5973 • ICV: 03/15/13 @ 14:39 • CCV: 03/26/13 @ 11:28 • Initial Calibration: 02/22/2013, instrument BSMC5973 • ICV: 02/22/13 @ 14:06 • CCV: 03/25/13 @ 12:33 • CCV: 03/27/13 @ 10:35	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with no individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): ○ If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag		✓		• ICV of 03/15/13 @ 14:39, instrument BSMA5973: ○ Benzo[a]pyrene @ -27.5 %D (Lab: ≤35, Project: ≤20). 72.5%R ○ Benzo[g,h,i]perylene @-21.4 %D (Lab: ≤35, Project: ≤20). 78.5%R A negative bias is indicated by the CCV percent difference and both analytes were detected in	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
non-detects ○ If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): ○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds				associated samples[3]; therefore, J-flag detected benzo[a]pyrene and benzo[g,h,i]perylene results. • ICV of 02/22/13 @ 14:06, instrument BSMC5973: ○ Chrysene @ -20.6 %D (Lab: ≤35, Project: ≤20). 79.5%R ○ Benzo[a]pyrene @-21.7 %D (Lab: ≤35, Project: ≤20). 78.5%R A negative bias is indicated by the CCV percent difference and both analytes were detected in associated samples[4]; therefore, J-flag detected chrysene and benzo[a]pyrene results.	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 135631: 680-88420-12 (CV1151A-CS-SP), MS/MSD • Prep Batch 135608: 680-88420-26 (Batch) MS/MSD	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively		✓		CV1151A-CS-SP (680-88420-12): Benzo[a]pyrene @ 48 and 65 %R (49-130). Qualification of data not required[5].	

[3] Associated sample(s): 680-88420-23 through -25, -28 through -31, -36, and -37
[4] Associated sample(s): 680-88420-21, -22, -26, -27 and -35
[5] The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results					
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to **Attachment B** (Case Narrative)	

Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment C**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

DV Flag Definitions:

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R The sample results are unusable. The analyte may or may not be present in the sample.
U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88420-21	CV1037A-CS	Solid	03/14/13 14:30	03/16/13 09:20
680-88420-22	CV1037B-CS	Solid	03/14/13 14:40	03/16/13 09:20
680-88420-23	CV0353A-CS-SP	Solid	03/14/13 12:38	03/16/13 09:20
680-88420-24	CV0353B-CS-SP	Solid	03/14/13 12:50	03/16/13 09:20
680-88420-25	CV0865A-CS-SP	Solid	03/14/13 13:10	03/16/13 09:20
680-88420-26	CV0865B-CS-SP	Solid	03/14/13 13:22	03/16/13 09:20
680-88420-27	CV0770A-CS-SP	Solid	03/14/13 13:50	03/16/13 09:20
680-88420-28	CV0770B-CS-SP	Solid	03/14/13 14:00	03/16/13 09:20
680-88420-29	CV0766A-CS-SP	Solid	03/14/13 14:21	03/16/13 09:20
680-88420-30	CV0968A-CS-SP	Solid	03/14/13 15:21	03/16/13 09:20
680-88420-31	CV0968B-CS-SP	Solid	03/14/13 15:31	03/16/13 09:20
680-88420-35	CV0292A-CS-SP	Solid	03/15/13 08:30	03/16/13 09:20
680-88420-36	CV0292B-CS-SP	Solid	03/15/13 08:40	03/16/13 09:20
680-88420-37	CV0292C-CS-SP	Solid	03/15/13 08:50	03/16/13 09:20

ATTACHMENT B

CASE NARRATIVE

Job ID: 680-88420-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88420-2

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

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

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

RECEIPT

The samples were received on 03/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1037A-CS (680-88420-21), CV1037B-CS (680-88420-22), CV0353A-CS-SP (680-88420-23), CV0353B-CS-SP (680-88420-24), CV0865A-CS-SP (680-88420-25), CV0865B-CS-SP (680-88420-26), CV0770A-CS-SP (680-88420-27), CV0770B-CS-SP (680-88420-28), CV0766A-CS-SP (680-88420-29), CV0968A-CS-SP (680-88420-30), CV0968B-CS-SP (680-88420-31), CV0292A-CS-SP (680-88420-35), CV0292B-CS-SP (680-88420-36) and CV0292C-CS-SP (680-88420-37) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/21/2013 and 03/22/2013 and analyzed on 03/25/2013, 03/26/2013 and 03/27/2013.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample CV0865B-CS-SP (680-88420-26) in batch 660-135753.

Several analytes recovered outside the recovery criteria high for the MS/MSD of sample 680-88420-12 in batch 660-135830. Several also exceeded the rpd limit for the MSD of sample 680-88420-12 in batch 660-135850.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT C

QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV1037A-CS

Lab Sample ID: 680-88420-21
Date Collected: 03/14/13 14:30
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 87.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	52	J	120	23	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Acenaphthylene	48		46	5.8	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Anthracene	170		9.7	4.9	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Benzo[a]anthracene	800		9.2	4.5	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Benzo[a]pyrene	760		12	6.0	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Benzo[b]fluoranthene	1100		14	7.1	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Benzo[g,h,i]perylene	490		23	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Benzo[k]fluoranthene	590		9.2	4.2	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Chrysene	860		10	5.2	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Dibenz(a,h)anthracene	160		23	4.7	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Fluoranthene	1500		23	4.6	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Fluorene	47		23	4.7	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Indeno[1,2,3-cd]pyrene	490		23	8.2	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
1-Methylnaphthalene	90		46	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
2-Methylnaphthalene	130		46	8.2	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Naphthalene	110		46	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Phenanthrene	790		9.2	4.5	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Pyrene	1400		23	4.3	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*03/21/13 11:14*	*03/27/13 19:58*	*1*

Client Sample ID: CV1037B-CS

Lab Sample ID: 680-88420-22
Date Collected: 03/14/13 14:40
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 84.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Acenaphthylene	48		46	5.7	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Anthracene	98		9.6	4.8	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Benzo[a]anthracene	340		9.2	4.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Benzo[a]pyrene	480		12	6.0	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Benzo[b]fluoranthene	790		14	7.0	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Benzo[g,h,i]perylene	350		23	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Benzo[k]fluoranthene	300		9.2	4.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Chrysene	460		10	5.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Dibenz(a,h)anthracene	100		23	4.7	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Fluoranthene	780		23	4.6	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Fluorene	36		23	4.7	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Indeno[1,2,3-cd]pyrene	290		23	8.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
1-Methylnaphthalene	110		46	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
2-Methylnaphthalene	170		46	8.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Naphthalene	120		46	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Phenanthrene	450		9.2	4.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Pyrene	370		23	4.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*03/21/13 11:14*	*03/27/13 20:16*	*1*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0353A-CS-SP

Lab Sample ID: 680-88420-23

Date Collected: 03/14/13 12:38
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 76.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	50	J	130	26	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Acenaphthylene	43	J	52	6.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Anthracene	54		11	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Benzo[a]anthracene	230		10	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Benzo[a]pyrene	140		13	6.7	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Benzo[b]fluoranthene	310		16	7.9	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Benzo[g,h,i]perylene	140		26	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Benzo[k]fluoranthene	82		10	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Chrysene	230		12	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Dibenz(a,h)anthracene	56		26	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Fluoranthene	240		26	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Fluorene	26	U	26	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Indeno[1,2,3-cd]pyrene	87		26	9.2	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
1-Methylnaphthalene	90		52	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
2-Methylnaphthalene	180		52	9.2	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Naphthalene	93		52	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Phenanthrene	210		10	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Pyrene	320		26	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*03/21/13 11:14*	*03/26/13 17:08*	*1*

Client Sample ID: CV0353B-CS-SP

Lab Sample ID: 680-88420-24

Date Collected: 03/14/13 12:50
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 75.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Acenaphthylene	36	J	53	6.6	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Anthracene	39		11	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Benzo[a]anthracene	160		11	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Benzo[a]pyrene	78		14	6.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Benzo[b]fluoranthene	230		16	8.0	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Benzo[g,h,i]perylene	69		26	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Benzo[k]fluoranthene	48		11	4.7	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Chrysene	140		12	5.9	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Dibenz(a,h)anthracene	32		26	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Fluoranthene	180		26	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Fluorene	26	U	26	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Indeno[1,2,3-cd]pyrene	67		26	9.3	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
1-Methylnaphthalene	89		53	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
2-Methylnaphthalene	180		53	9.3	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Naphthalene	100		53	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Phenanthrene	130		11	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Pyrene	230		26	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*03/21/13 11:14*	*03/26/13 17:23*	*1*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0865A-CS-SP

Lab Sample ID: 680-88420-25

Date Collected: 03/14/13 13:10
Date Received: 03/16/13 09:20

Matrix: Solid
Percent Solids: 80.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Acenaphthylene	120		50	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Anthracene	100		10	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Benzo[a]anthracene	350		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Benzo[a]pyrene	270		13	6.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Benzo[b]fluoranthene	430		15	7.6	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Benzo[g,h,i]perylene	230		25	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Benzo[k]fluoranthene	170		9.9	4.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Chrysene	350		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Dibenz(a,h)anthracene	92		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Fluoranthene	580		25	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Fluorene	50		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Indeno[1,2,3-cd]pyrene	220		25	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
1-Methylnaphthalene	93		50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
2-Methylnaphthalene	160		50	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Naphthalene	74		50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Phenanthrene	380		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Pyrene	600		25	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*30 - 130*	*03/21/13 11:14*	*03/26/13 17:38*	*1*

Client Sample ID: CV0865B-CS-SP

Lab Sample ID: 680-88420-26

Date Collected: 03/14/13 13:22
Date Received: 03/16/13 09:20

Matrix: Solid
Percent Solids: 83.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Acenaphthylene	36	J	48	6.0	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Anthracene	33		10	5.0	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Benzo[a]anthracene	260		9.6	4.7	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Benzo[a]pyrene	280	F	12	6.2	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Benzo[b]fluoranthene	450		15	7.3	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Benzo[g,h,i]perylene	200		24	5.3	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Benzo[k]fluoranthene	140		9.6	4.3	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Chrysene	440		11	5.4	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Dibenz(a,h)anthracene	68		24	4.9	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Fluoranthene	490		24	4.8	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Fluorene	17	J	24	4.9	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Indeno[1,2,3-cd]pyrene	140		24	8.5	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
1-Methylnaphthalene	450		48	5.3	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
2-Methylnaphthalene	450		48	8.5	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Naphthalene	250		48	5.3	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Phenanthrene	430		9.6	4.7	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Pyrene	450		24	4.4	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*03/22/13 13:10*	*03/25/13 15:20*	*1*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0770A-CS-SP

Lab Sample ID: 680-88420-27

Date Collected: 03/14/13 13:50
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 79.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Acenaphthylene	68		50	6.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Anthracene	52		10	5.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Benzo[a]anthracene	330		10	4.9	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Benzo[a]pyrene	350		13	6.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Benzo[b]fluoranthene	480		15	7.6	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Benzo[g,h,i]perylene	260		25	5.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Benzo[k]fluoranthene	240		10	4.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Chrysene	370		11	5.6	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Dibenz(a,h)anthracene	79		25	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Fluoranthene	510		25	5.0	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Fluorene	26		25	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Indeno[1,2,3-cd]pyrene	200		25	8.9	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
1-Methylnaphthalene	110		50	5.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
2-Methylnaphthalene	170		50	8.9	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Naphthalene	120		50	5.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Phenanthrene	330		10	4.9	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Pyrene	480		25	4.6	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*30 - 130*	*03/21/13 11:14*	*03/27/13 20:34*	*1*

Client Sample ID: CV0770B-CS-SP

Lab Sample ID: 680-88420-28

Date Collected: 03/14/13 14:00
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 79.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Acenaphthylene	38	J	50	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Anthracene	30		10	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Benzo[a]anthracene	140		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Benzo[a]pyrene	79		13	6.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Benzo[b]fluoranthene	220		15	7.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Benzo[g,h,i]perylene	87		25	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Benzo[k]fluoranthene	49		9.9	4.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Chrysene	150		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Dibenz(a,h)anthracene	31		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Fluoranthene	180		25	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Fluorene	25	U	25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Indeno[1,2,3-cd]pyrene	61		25	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
1-Methylnaphthalene	59		50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
2-Methylnaphthalene	150		50	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Naphthalene	57		50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Phenanthrene	140		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Pyrene	170		25	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*03/21/13 11:14*	*03/26/13 18:09*	*1*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0766A-CS-SP

Lab Sample ID: 680-88420-29

Date Collected: 03/14/13 14:21
Date Received: 03/16/13 09:20

Matrix: Solid
Percent Solids: 70.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	65	J	140	28	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Acenaphthylene	98		57	7.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Anthracene	170		12	6.0	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Benzo[a]anthracene	430		11	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Benzo[a]pyrene	190		15	7.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Benzo[b]fluoranthene	480		17	8.7	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Benzo[g,h,i]perylene	230		28	6.3	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Benzo[k]fluoranthene	150		11	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Chrysene	510		13	6.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Dibenz(a,h)anthracene	100		28	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Fluoranthene	470		28	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Fluorene	89		28	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Indeno[1,2,3-cd]pyrene	180		28	10	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
1-Methylnaphthalene	840		57	6.3	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
2-Methylnaphthalene	790		57	10	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Naphthalene	490		57	6.3	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Phenanthrene	730		11	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Pyrene	440		28	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*03/21/13 11:14*	*03/26/13 18:24*	*1*

Client Sample ID: CV0968A-CS-SP

Lab Sample ID: 680-88420-30

Date Collected: 03/14/13 15:21
Date Received: 03/16/13 09:20

Matrix: Solid
Percent Solids: 80.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Acenaphthylene	31	J	50	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Anthracene	23		10	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Benzo[a]anthracene	130		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Benzo[a]pyrene	76		13	6.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Benzo[b]fluoranthene	190		15	7.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Benzo[g,h,i]perylene	55		25	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Benzo[k]fluoranthene	56		9.9	4.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Chrysene	110		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Dibenz(a,h)anthracene	28		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Fluoranthene	150		25	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Fluorene	25	U	25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Indeno[1,2,3-cd]pyrene	54		25	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
1-Methylnaphthalene	13	J	50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
2-Methylnaphthalene	88		50	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Naphthalene	18	J	50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Phenanthrene	60		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Pyrene	140		25	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*03/21/13 11:14*	*03/26/13 18:39*	*1*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample ID: CV0968B-CS-SP

Lab Sample ID: 680-88420-31

Date Collected: 03/14/13 15:31
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 80.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Acenaphthylene	81		49	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Anthracene	73		10	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Benzo[a]anthracene	200		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Benzo[a]pyrene	170		13	6.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Benzo[b]fluoranthene	330		15	7.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Benzo[g,h,i]perylene	170		25	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Benzo[k]fluoranthene	97		9.9	4.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Chrysene	190		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Dibenz(a,h)anthracene	54		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Fluoranthene	290		25	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Fluorene	25	U	25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Indeno[1,2,3-cd]pyrene	160		25	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
1-Methylnaphthalene	20	J	49	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
2-Methylnaphthalene	89		49	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Naphthalene	27	J	49	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Phenanthrene	150		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Pyrene	300		25	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*30 - 130*	*03/21/13 11:14*	*03/26/13 18:54*	*1*

Client Sample ID: CV0292A-CS-SP

Lab Sample ID: 680-88420-35

Date Collected: 03/15/13 08:30
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 70.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Acenaphthylene	12	J	55	6.9	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Anthracene	13		12	5.8	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Benzo[a]anthracene	62		11	5.4	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Benzo[a]pyrene	65		14	7.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Benzo[b]fluoranthene	110		17	8.4	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Benzo[g,h,i]perylene	42		28	6.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Benzo[k]fluoranthene	38		11	5.0	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Chrysene	87		12	6.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Dibenz(a,h)anthracene	13	J	28	5.7	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Fluoranthene	100		28	5.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Fluorene	6.5	J	28	5.7	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Indeno[1,2,3-cd]pyrene	34		28	9.8	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
1-Methylnaphthalene	39	J	55	6.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
2-Methylnaphthalene	39	J	55	9.8	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Naphthalene	32	J	55	6.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Phenanthrene	93		11	5.4	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Pyrene	110		28	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*38*		*30 - 130*	*03/21/13 11:14*	*03/27/13 20:53*	*1*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0292B-CS-SP

Lab Sample ID: 680-88420-36
Date Collected: 03/15/13 08:40
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 70.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Acenaphthylene	**29**	**J**	55	6.9	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Anthracene	**31**		12	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Benzo[a]anthracene	**85**		11	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Benzo[a]pyrene	**49**		14	7.2	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Benzo[b]fluoranthene	**210**		17	8.5	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Benzo[g,h,i]perylene	**56**		28	6.1	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Benzo[k]fluoranthene	**33**		11	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Chrysene	**180**		12	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Dibenz(a,h)anthracene	**18**	**J**	28	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Fluoranthene	**120**		28	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Fluorene	**31**		28	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Indeno[1,2,3-cd]pyrene	**45**		28	9.9	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
1-Methylnaphthalene	**79**		55	6.1	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
2-Methylnaphthalene	**180**		55	9.9	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Naphthalene	**76**		55	6.1	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Phenanthrene	**150**		11	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Pyrene	**140**		28	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*03/21/13 11:14*	*03/26/13 19:24*	*1*

Client Sample ID: CV0292C-CS-SP

Lab Sample ID: 680-88420-37
Date Collected: 03/15/13 08:50
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 72.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Acenaphthylene	55	U	55	6.8	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Anthracene	**15**		12	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Benzo[a]anthracene	**74**		11	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Benzo[a]pyrene	**33**		14	7.1	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Benzo[b]fluoranthene	**160**		17	8.4	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Benzo[g,h,i]perylene	**35**		27	6.0	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Benzo[k]fluoranthene	**27**		11	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Chrysene	**67**		12	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Dibenz(a,h)anthracene	**24**	**J**	27	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Fluoranthene	**83**		27	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Fluorene	27	U	27	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Indeno[1,2,3-cd]pyrene	**26**	**J**	27	9.7	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
1-Methylnaphthalene	**34**	**J**	55	6.0	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
2-Methylnaphthalene	**120**		55	9.7	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Naphthalene	**44**	**J**	55	6.0	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Phenanthrene	**72**		11	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Pyrene	**87**		27	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*03/21/13 11:14*	*03/26/13 19:39*	*1*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

ANALYTICAL REPORT

Job Number: 680-88420-2

SDG Number: 68088420-2

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
3/29/2013 10:49 AM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
03/29/2013

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.

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88420-2

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

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

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

RECEIPT

The samples were received on 03/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1037A-CS (680-88420-21), CV1037B-CS (680-88420-22), CV0353A-CS-SP (680-88420-23), CV0353B-CS-SP (680-88420-24), CV0865A-CS-SP (680-88420-25), CV0865B-CS-SP (680-88420-26), CV0770A-CS-SP (680-88420-27), CV0770B-CS-SP (680-88420-28), CV0766A-CS-SP (680-88420-29), CV0968A-CS-SP (680-88420-30), CV0968B-CS-SP (680-88420-31), CV0292A-CS-SP (680-88420-35), CV0292B-CS-SP (680-88420-36) and CV0292C-CS-SP (680-88420-37) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/21/2013 and 03/22/2013 and analyzed on 03/25/2013, 03/26/2013 and 03/27/2013.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample CV0865B-CS-SP (680-88420-26) in batch 660-135753.

Several analytes recovered outside the recovery criteria high for the MS/MSD of sample 680-88420-12 in batch 660-135830. Several also exceeded the rpd limit for the MSD of sample 680-88420-12 in batch 660-135850.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-2
Sdg Number: 68088420-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88420-21	CV1037A-CS	Solid	03/14/2013 1430	03/16/2013 0920
680-88420-22	CV1037B-CS	Solid	03/14/2013 1440	03/16/2013 0920
680-88420-23	CV0353A-CS-SP	Solid	03/14/2013 1238	03/16/2013 0920
680-88420-24	CV0353B-CS-SP	Solid	03/14/2013 1250	03/16/2013 0920
680-88420-25	CV0865A-CS-SP	Solid	03/14/2013 1310	03/16/2013 0920
680-88420-26	CV0865B-CS-SP	Solid	03/14/2013 1322	03/16/2013 0920
680-88420-26MS	CV0865B-CS-SP	Solid	03/14/2013 1322	03/16/2013 0920
680-88420-26MSD	CV0865B-CS-SP	Solid	03/14/2013 1322	03/16/2013 0920
680-88420-27	CV0770A-CS-SP	Solid	03/14/2013 1350	03/16/2013 0920
680-88420-28	CV0770B-CS-SP	Solid	03/14/2013 1400	03/16/2013 0920
680-88420-29	CV0766A-CS-SP	Solid	03/14/2013 1421	03/16/2013 0920
680-88420-30	CV0968A-CS-SP	Solid	03/14/2013 1521	03/16/2013 0920
680-88420-31	CV0968B-CS-SP	Solid	03/14/2013 1531	03/16/2013 0920
680-88420-35	CV0292A-CS-SP	Solid	03/15/2013 0830	03/16/2013 0920
680-88420-36	CV0292B-CS-SP	Solid	03/15/2013 0840	03/16/2013 0920
680-88420-37	CV0292C-CS-SP	Solid	03/15/2013 0850	03/16/2013 0920

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-2
Sdg Number: 68088420-2

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-2
Sdg Number: 68088420-2

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-2
Sdg Number: 68088420-2

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-2
Sdg Number: 68088420-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-135631					
LCS 660-135631/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135631/1-A	Method Blank	T	Solid	3546	
680-88420-A-12-B MS	Matrix Spike	T	Solid	3546	
680-88420-A-12-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88420-21	CV1037A-CS	T	Solid	3546	
680-88420-22	CV1037B-CS	T	Solid	3546	
680-88420-23	CV0353A-CS-SP	T	Solid	3546	
680-88420-24	CV0353B-CS-SP	T	Solid	3546	
680-88420-25	CV0865A-CS-SP	T	Solid	3546	
680-88420-27	CV0770A-CS-SP	T	Solid	3546	
680-88420-28	CV0770B-CS-SP	T	Solid	3546	
680-88420-29	CV0766A-CS-SP	T	Solid	3546	
680-88420-30	CV0968A-CS-SP	T	Solid	3546	
680-88420-31	CV0968B-CS-SP	T	Solid	3546	
680-88420-35	CV0292A-CS-SP	T	Solid	3546	
680-88420-36	CV0292B-CS-SP	T	Solid	3546	
680-88420-37	CV0292C-CS-SP	T	Solid	3546	
Prep Batch: 660-135688					
LCS 660-135688/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135688/1-A	Method Blank	T	Solid	3546	
680-88420-26	CV0865B-CS-SP	T	Solid	3546	
680-88420-26MS	Matrix Spike	T	Solid	3546	
680-88420-26MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-135753					
LCS 660-135688/2-A	Lab Control Sample	T	Solid	8270C LL	660-135688
MB 660-135688/1-A	Method Blank	T	Solid	8270C LL	660-135688
680-88420-26	CV0865B-CS-SP	T	Solid	8270C LL	660-135688
680-88420-26MS	Matrix Spike	T	Solid	8270C LL	660-135688
680-88420-26MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135688
Analysis Batch:660-135830					
680-88420-A-12-B MS	Matrix Spike	T	Solid	8270C LL	660-135631
680-88420-21	CV1037A-CS	T	Solid	8270C LL	660-135631
680-88420-22	CV1037B-CS	T	Solid	8270C LL	660-135631
680-88420-27	CV0770A-CS-SP	T	Solid	8270C LL	660-135631
680-88420-35	CV0292A-CS-SP	T	Solid	8270C LL	660-135631

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-2
Sdg Number: 68088420-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-135850					
LCS 660-135631/2-A	Lab Control Sample	T	Solid	8270C LL	660-135631
MB 660-135631/1-A	Method Blank	T	Solid	8270C LL	660-135631
680-88420-A-12-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135631
680-88420-23	CV0353A-CS-SP	T	Solid	8270C LL	660-135631
680-88420-24	CV0353B-CS-SP	T	Solid	8270C LL	660-135631
680-88420-25	CV0865A-CS-SP	T	Solid	8270C LL	660-135631
680-88420-28	CV0770B-CS-SP	T	Solid	8270C LL	660-135631
680-88420-29	CV0766A-CS-SP	T	Solid	8270C LL	660-135631
680-88420-30	CV0968A-CS-SP	T	Solid	8270C LL	660-135631
680-88420-31	CV0968B-CS-SP	T	Solid	8270C LL	660-135631
680-88420-36	CV0292B-CS-SP	T	Solid	8270C LL	660-135631
680-88420-37	CV0292C-CS-SP	T	Solid	8270C LL	660-135631

Report Basis
T = Total

General Chemistry					
Analysis Batch:660-135642					
LCS 660-135642/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135642/12	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88420-26	CV0865B-CS-SP	T	Solid	Moisture	
680-88420-26MS	Matrix Spike	T	Solid	Moisture	
680-88420-26MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-135659					
MB 660-135659/1	Method Blank	T	Solid	Moisture	
680-88420-21	CV1037A-CS	T	Solid	Moisture	
680-88420-22	CV1037B-CS	T	Solid	Moisture	
680-88420-23	CV0353A-CS-SP	T	Solid	Moisture	
680-88420-24	CV0353B-CS-SP	T	Solid	Moisture	
680-88420-25	CV0865A-CS-SP	T	Solid	Moisture	
680-88420-27	CV0770A-CS-SP	T	Solid	Moisture	
680-88420-28	CV0770B-CS-SP	T	Solid	Moisture	
680-88420-29	CV0766A-CS-SP	T	Solid	Moisture	
680-88420-30	CV0968A-CS-SP	T	Solid	Moisture	
680-88420-31	CV0968B-CS-SP	T	Solid	Moisture	
680-88420-35	CV0292A-CS-SP	T	Solid	Moisture	
680-88420-36	CV0292B-CS-SP	T	Solid	Moisture	
680-88420-37	CV0292C-CS-SP	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMA5973 Analysis Batch Number: 135466

Lab Sample ID: ICIS 660-135466/3 Client Sample ID:

Date Analyzed: 03/15/13 12:54 Lab File ID: 1AC15003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/15/13 14:45

Lab Sample ID: IC 660-135466/4 Client Sample ID:

Date Analyzed: 03/15/13 13:09 Lab File ID: 1AC15004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 14:47

Lab Sample ID: IC 660-135466/5 Client Sample ID:

Date Analyzed: 03/15/13 13:24 Lab File ID: 1AC15005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 14:48

Lab Sample ID: IC 660-135466/6 Client Sample ID:

Date Analyzed: 03/15/13 13:39 Lab File ID: 1AC15006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.02	Split Peak	cantins	03/15/13 14:48

Lab Sample ID: IC 660-135466/7 Client Sample ID:

Date Analyzed: 03/15/13 13:54 Lab File ID: 1AC15007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 14:49

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMA5973 Analysis Batch Number: 135466

Lab Sample ID: IC 660-135466/8 Client Sample ID:

Date Analyzed: 03/15/13 14:10 Lab File ID: 1AC15008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/15/13 14:49

Lab Sample ID: IC 660-135466/9 Client Sample ID:

Date Analyzed: 03/15/13 14:25 Lab File ID: 1AC15009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.05	Split Peak	cantins	03/15/13 14:50

Lab Sample ID: ICV 660-135466/10 Client Sample ID:

Date Analyzed: 03/15/13 14:39 Lab File ID: 1AC15010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.45	Baseline Event	cantins	03/15/13 15:02
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 15:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMA5973 Analysis Batch Number: 135850

Lab Sample ID: CCVIS 660-135850/3 Client Sample ID:

Date Analyzed: 03/26/13 11:28 Lab File ID: 1AC26003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	7.97	Split Peak	cantins	03/26/13 11:41

Lab Sample ID: LCS 660-135631/2-A Client Sample ID:

Date Analyzed: 03/26/13 12:15 Lab File ID: 1AC26006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	7.96	Split Peak	cantins	03/28/13 11:03

Lab Sample ID: 680-88420-A-12-C MSD Client Sample ID:

Date Analyzed: 03/26/13 13:08 Lab File ID: 1AC26009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/28/13 11:07

Lab Sample ID: 680-88420-23 Client Sample ID: CV0353A-CS-SP

Date Analyzed: 03/26/13 17:08 Lab File ID: 1AC26018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.02	Split Peak	cantins	03/28/13 11:26
Benzo[k]fluoranthene	7.03	Baseline Event	cantins	03/28/13 11:26
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/28/13 11:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMA5973 Analysis Batch Number: 135850

Lab Sample ID: 680-88420-24 Client Sample ID: CV0353B-CS-SP

Date Analyzed: 03/26/13 17:23 Lab File ID: 1AC26019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.02	Split Peak	cantins	03/28/13 11:27
Benzo[k]fluoranthene	7.03	Baseline Event	cantins	03/28/13 11:28
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/28/13 11:28

Lab Sample ID: 680-88420-25 Client Sample ID: CV0865A-CS-SP

Date Analyzed: 03/26/13 17:38 Lab File ID: 1AC26020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.02	Split Peak	cantins	03/28/13 11:29
Benzo[k]fluoranthene	7.03	Baseline Event	cantins	03/28/13 11:29
Indeno[1,2,3-cd]pyrene	8.01	Split Peak	cantins	03/28/13 11:30

Lab Sample ID: 680-88420-28 Client Sample ID: CV0770B-CS-SP

Date Analyzed: 03/26/13 18:09 Lab File ID: 1AC26022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/28/13 11:37
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/28/13 11:38
Indeno[1,2,3-cd]pyrene	8.01	Split Peak	cantins	03/28/13 11:38

Lab Sample ID: 680-88420-29 Client Sample ID: CV0766A-CS-SP

Date Analyzed: 03/26/13 18:24 Lab File ID: 1AC26023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.05	Split Peak	cantins	03/28/13 11:39
Benzo[k]fluoranthene	7.05	Baseline Event	cantins	03/28/13 11:39
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/28/13 11:41

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMA5973 Analysis Batch Number: 135850

Lab Sample ID: 680-88420-30 Client Sample ID: CV0968A-CS-SP

Date Analyzed: 03/26/13 18:39 Lab File ID: 1AC26024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/28/13 11:43
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/28/13 11:44
Indeno[1,2,3-cd]pyrene	8.01	Split Peak	cantins	03/28/13 11:44

Lab Sample ID: 680-88420-31 Client Sample ID: CV0968B-CS-SP

Date Analyzed: 03/26/13 18:54 Lab File ID: 1AC26025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/28/13 11:41
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/28/13 11:42
Indeno[1,2,3-cd]pyrene	8.01	Split Peak	cantins	03/28/13 11:42

Lab Sample ID: 680-88420-36 Client Sample ID: CV0292B-CS-SP

Date Analyzed: 03/26/13 19:24 Lab File ID: 1AC26027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	6.22	Split Peak	cantins	03/28/13 11:33
Chrysene	6.23	Baseline Event	cantins	03/28/13 11:33
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/28/13 11:33
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/28/13 11:34
Indeno[1,2,3-cd]pyrene	8.01	Split Peak	cantins	03/28/13 11:34

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMA5973 Analysis Batch Number: 135850

Lab Sample ID: 680-88420-37 Client Sample ID: CV0292C-CS-SP

Date Analyzed: 03/26/13 19:39 Lab File ID: 1AC26028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/28/13 11:35
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/28/13 11:35
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/28/13 11:36
Dibenz(a,h)anthracene	8.01	Baseline Event	cantins	03/28/13 11:36

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMC5973 Analysis Batch Number: 134776

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMC5973 Analysis Batch Number: 134776

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMC5973 Analysis Batch Number: 135753

Lab Sample ID: CCVIS 660-135753/3 Client Sample ID:

Date Analyzed: 03/25/13 12:33 Lab File ID: 1CC25003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.06	Split Peak	cantins	03/25/13 12:50

Lab Sample ID: LCS 660-135688/2-A Client Sample ID:

Date Analyzed: 03/25/13 13:30 Lab File ID: 1CC25006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/25/13 16:04

Lab Sample ID: 680-88420-26 Client Sample ID: CV0865B-CS-SP

Date Analyzed: 03/25/13 15:20 Lab File ID: 1CC25012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.55	Split Peak	cantins	03/25/13 16:07
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/25/13 16:07
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/25/13 16:07

Lab Sample ID: 680-88420-26 MS Client Sample ID: CV0865B-CS-SP MS

Date Analyzed: 03/25/13 15:38 Lab File ID: 1CC25013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.06	Split Peak	cantins	03/25/13 16:09

Lab Sample ID: 680-88420-26 MSD Client Sample ID: CV0865B-CS-SP MSD

Date Analyzed: 03/25/13 15:57 Lab File ID: 1CC25014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 16:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMC5973 Analysis Batch Number: 135830

Lab Sample ID: CCVIS 660-135830/3 Client Sample ID:

Date Analyzed: 03/27/13 10:35 Lab File ID: 1CC27003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/27/13 10:50

Lab Sample ID: 680-88420-A-12-B MS Client Sample ID:

Date Analyzed: 03/27/13 19:03 Lab File ID: 1CC27030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/28/13 12:10

Lab Sample ID: 680-88420-21 Client Sample ID: CV1037A-CS

Date Analyzed: 03/27/13 19:58 Lab File ID: 1CC27033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/28/13 12:12

Lab Sample ID: 680-88420-22 Client Sample ID: CV1037B-CS

Date Analyzed: 03/27/13 20:16 Lab File ID: 1CC27034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.55	Split Peak	cantins	03/28/13 12:12
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	03/28/13 12:13
Indeno[1,2,3-cd]pyrene	10.06	Split Peak	cantins	03/28/13 12:13

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMC5973 Analysis Batch Number: 135830

Lab Sample ID: 680-88420-27 Client Sample ID: CV0770A-CS-SP

Date Analyzed: 03/27/13 20:34 Lab File ID: 1CC27035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.55	Split Peak	cantins	03/28/13 12:22
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	03/28/13 12:23
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/28/13 12:23

Lab Sample ID: 680-88420-35 Client Sample ID: CV0292A-CS-SP

Date Analyzed: 03/27/13 20:53 Lab File ID: 1CC27036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.54	Split Peak	cantins	03/28/13 12:23
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	03/28/13 12:24
Indeno[1,2,3-cd]pyrene	10.06	Split Peak	cantins	03/28/13 12:24

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.: 680-88420-2

SDG No.: 68088420-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1037A-CS	680-88420-21	70
CV1037B-CS	680-88420-22	68
CV0353A-CS-SP	680-88420-23	68
CV0353B-CS-SP	680-88420-24	68
CV0865A-CS-SP	680-88420-25	77
CV0865B-CS-SP	680-88420-26	75
CV0770A-CS-SP	680-88420-27	82
CV0770B-CS-SP	680-88420-28	62
CV0766A-CS-SP	680-88420-29	61
CV0968A-CS-SP	680-88420-30	56
CV0968B-CS-SP	680-88420-31	76
CV0292A-CS-SP	680-88420-35	38
CV0292B-CS-SP	680-88420-36	67
CV0292C-CS-SP	680-88420-37	69
	MB 660-135631/1-A	81
	MB 660-135688/1-A	80
	LCS 660-135631/2-A	70
	LCS 660-135688/2-A	87
	680-88420-A-12-B MS	71
CV0865B-CS-SP MS	680-88420-26 MS	65
	680-88420-A-12-C MSD	73
CV0865B-CS-SP MSD	680-88420-26 MSD	71

	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.: 680-88420-2

SDG No.: 68088420-2

Matrix: Solid Level: Low Lab File ID: 1AC26006.D

Lab ID: LCS 660-135631/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	653	430	66	39-130	
Acenaphthylene	653	477	73	38-130	
Anthracene	653	437	67	37-130	
Benzo[a]anthracene	653	501	77	40-130	
Benzo[a]pyrene	653	427	65	49-130	
Benzo[b]fluoranthene	653	471	72	37-130	
Benzo[g,h,i]perylene	653	437	67	32-130	
Benzo[k]fluoranthene	653	501	77	32-130	
Chrysene	653	489	75	41-130	
Dibenz(a,h)anthracene	653	496	76	27-130	
Fluoranthene	653	479	73	40-130	
Fluorene	653	491	75	40-130	
Indeno[1,2,3-cd]pyrene	653	434	66	30-130	
1-Methylnaphthalene	653	506	77	31-130	
2-Methylnaphthalene	653	420	64	33-130	
Naphthalene	653	440	67	36-130	
Phenanthrene	653	437	67	42-130	
Pyrene	653	411	63	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.: 680-88420-2

SDG No.: 68088420-2

Matrix: Solid Level: Low Lab File ID: 1CC25006.D

Lab ID: LCS 660-135688/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	661	478	72	39-130	
Acenaphthylene	661	537	81	38-130	
Anthracene	661	558	85	37-130	
Benzo[a]anthracene	661	581	88	40-130	
Benzo[a]pyrene	661	530	80	49-130	
Benzo[b]fluoranthene	661	601	91	37-130	
Benzo[g,h,i]perylene	661	542	82	32-130	
Benzo[k]fluoranthene	661	562	85	32-130	
Chrysene	661	531	80	41-130	
Dibenz(a,h)anthracene	661	585	89	27-130	
Fluoranthene	661	600	91	40-130	
Fluorene	661	546	83	40-130	
Indeno[1,2,3-cd]pyrene	661	538	81	30-130	
1-Methylnaphthalene	661	583	88	31-130	
2-Methylnaphthalene	661	536	81	33-130	
Naphthalene	661	555	84	36-130	
Phenanthrene	661	537	81	42-130	
Pyrene	661	562	85	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.: 680-88420-2

SDG No.: 68088420-2

Matrix: Solid Level: Low Lab File ID: 1CC27030.D

Lab ID: 680-88420-A-12-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	843	59 J	655	71	39-130	
Acenaphthylene	843	50 J	619	68	38-130	
Anthracene	843	62	772	84	37-130	
Benzo[a]anthracene	843	300	1180	104	40-130	
Benzo[a]pyrene	843	200	1110	107	49-130	
Benzo[b]fluoranthene	843	440	1500	125	37-130	
Benzo[g,h,i]perylene	843	170	846	80	32-130	
Benzo[k]fluoranthene	843	120	1040	109	32-130	
Chrysene	843	340	1240	107	41-130	
Dibenz(a,h)anthracene	843	67	742	80	27-130	
Fluoranthene	843	390	1800	167	40-130	F
Fluorene	843	43	654	73	40-130	
Indeno[1,2,3-cd]pyrene	843	140	847	83	30-130	
1-Methylnaphthalene	843	94	882	94	31-130	
2-Methylnaphthalene	843	190	844	78	33-130	
Naphthalene	843	90	772	81	36-130	
Phenanthrene	843	310	1400	130	42-130	
Pyrene	843	310	1640	158	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 RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Matrix: Solid Level: Low Lab File ID: 1CC25013.D

Lab ID: 680-88420-26 MS Client ID: CV0865B-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	799	120 U	541	68	39-130	
Acenaphthylene	799	36 J	565	66	38-130	
Anthracene	799	33	557	66	37-130	
Benzo[a]anthracene	799	260	829	71	40-130	
Benzo[a]pyrene	799	280	672	48	49-130	F
Benzo[b]fluoranthene	799	450	868	52	37-130	
Benzo[g,h,i]perylene	799	200	545	44	32-130	
Benzo[k]fluoranthene	799	140	718	72	32-130	
Chrysene	799	440	869	54	41-130	
Dibenz(a,h)anthracene	799	68	498	54	27-130	
Fluoranthene	799	490	976	61	40-130	
Fluorene	799	17 J	608	74	40-130	
Indeno[1,2,3-cd]pyrene	799	140	524	47	30-130	
1-Methylnaphthalene	799	450	1290	106	31-130	
2-Methylnaphthalene	799	450	1180	91	33-130	
Naphthalene	799	250	923	84	36-130	
Phenanthrene	799	430	1030	75	42-130	
Pyrene	799	450	1020	71	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.: 680-88420-2

SDG No.: 68088420-2

Matrix: Solid Level: Low Lab File ID: 1AC26009.D

Lab ID: 680-88420-A-12-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	849	642	69	2	40	39-130	
Acenaphthylene	849	624	68	1	40	38-130	
Anthracene	849	682	73	12	40	37-130	
Benzo[a]anthracene	849	997	82	17	40	40-130	
Benzo[a]pyrene	849	703	59	45	40	49-130	F
Benzo[b]fluoranthene	849	1030	69	37	40	37-130	
Benzo[g,h,i]perylene	849	691	61	20	40	32-130	
Benzo[k]fluoranthene	849	701	68	39	40	32-130	
Chrysene	849	1010	79	20	40	41-130	
Dibenz(a,h)anthracene	849	733	78	1	40	27-130	
Fluoranthene	849	1020	74	55	40	40-130	F
Fluorene	849	725	80	10	40	40-130	
Indeno[1,2,3-cd]pyrene	849	818	79	4	40	30-130	
1-Methylnaphthalene	849	796	83	10	40	31-130	
2-Methylnaphthalene	849	748	66	12	40	33-130	
Naphthalene	849	683	70	12	40	36-130	
Phenanthrene	849	1140	99	20	40	42-130	
Pyrene	849	1100	92	40	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Matrix: Solid Level: Low Lab File ID: 1CC25014.D

Lab ID: 680-88420-26 MSD Client ID: CV0865B-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	799	543	68	0	40	39-130	
Acenaphthylene	799	631	74	11	40	38-130	
Anthracene	799	608	72	9	40	37-130	
Benzo[a]anthracene	799	898	80	8	40	40-130	
Benzo[a]pyrene	799	805	65	18	40	49-130	
Benzo[b]fluoranthene	799	1010	69	15	40	37-130	
Benzo[g,h,i]perylene	799	645	56	17	40	32-130	
Benzo[k]fluoranthene	799	786	81	9	40	32-130	
Chrysene	799	937	62	8	40	41-130	
Dibenz(a,h)anthracene	799	610	68	20	40	27-130	
Fluoranthene	799	1000	64	3	40	40-130	
Fluorene	799	648	79	6	40	40-130	
Indeno[1,2,3-cd]pyrene	799	613	59	16	40	30-130	
1-Methylnaphthalene	799	1420	122	9	40	31-130	
2-Methylnaphthalene	799	1380	117	16	40	33-130	
Naphthalene	799	1080	104	16	40	36-130	
Phenanthrene	799	1090	83	6	40	42-130	
Pyrene	799	1060	76	4	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.: 680-88420-2

SDG No.: 68088420-2

Lab File ID: 1AC26005.D Lab Sample ID: MB 660-135631/1-A

Matrix: Solid Date Extracted: 03/21/2013 11:14

Instrument ID: BSMA5973 Date Analyzed: 03/26/2013 11:59

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135631/2-A	1AC26006.D	03/26/2013 12:15
	680-88420-A-12-C MSD	1AC26009.D	03/26/2013 13:08
CV0353A-CS-SP	680-88420-23	1AC26018.D	03/26/2013 17:08
CV0353B-CS-SP	680-88420-24	1AC26019.D	03/26/2013 17:23
CV0865A-CS-SP	680-88420-25	1AC26020.D	03/26/2013 17:38
CV0770B-CS-SP	680-88420-28	1AC26022.D	03/26/2013 18:09
CV0766A-CS-SP	680-88420-29	1AC26023.D	03/26/2013 18:24
CV0968A-CS-SP	680-88420-30	1AC26024.D	03/26/2013 18:39
CV0968B-CS-SP	680-88420-31	1AC26025.D	03/26/2013 18:54
CV0292B-CS-SP	680-88420-36	1AC26027.D	03/26/2013 19:24
CV0292C-CS-SP	680-88420-37	1AC26028.D	03/26/2013 19:39
	680-88420-A-12-B MS	1CC27030.D	03/27/2013 19:03
CV1037A-CS	680-88420-21	1CC27033.D	03/27/2013 19:58
CV1037B-CS	680-88420-22	1CC27034.D	03/27/2013 20:16
CV0770A-CS-SP	680-88420-27	1CC27035.D	03/27/2013 20:34
CV0292A-CS-SP	680-88420-35	1CC27036.D	03/27/2013 20:53

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Lab File ID: 1CC25005.D Lab Sample ID: MB 660-135688/1-A

Matrix: Solid Date Extracted: 03/22/2013 13:10

Instrument ID: BSMC5973 Date Analyzed: 03/25/2013 13:11

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135688/2-A	1CC25006.D	03/25/2013 13:30
CV0865B-CS-SP	680-88420-26	1CC25012.D	03/25/2013 15:20
CV0865B-CS-SP MS	680-88420-26 MS	1CC25013.D	03/25/2013 15:38
CV0865B-CS-SP MSD	680-88420-26 MSD	1CC25014.D	03/25/2013 15:57

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Lab File ID: 1AC15002.D DFTPP Injection Date: 03/15/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 12:38

Analysis Batch No.: 135466

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	74.2	
68	Less than 2.0 % of mass 69	0.9	(1.5)1
69	Mass 69 relative abundance	60.2	
70	Less than 2.0 % of mass 69	0.4	(0.7)1
127	10.0 - 80.0 % of mass 198	48.9	
197	Less than 2.0 % of mass 198	0.4	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.6	
275	10.0 - 60.0 % of mass 198	24.1	
365	Greater than 1.0 % of mass 198	5.4	
441	Present but less than mass 443	7.7	
442	Greater than 50.0 % of mass 198	57.8	
443	15.0 - 24.0 % of mass 442	11.6	(20.0)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-135466/3	1AC15003.D	03/15/2013	12:54
	IC 660-135466/4	1AC15004.D	03/15/2013	13:09
	IC 660-135466/5	1AC15005.D	03/15/2013	13:24
	IC 660-135466/6	1AC15006.D	03/15/2013	13:39
	IC 660-135466/7	1AC15007.D	03/15/2013	13:54
	IC 660-135466/8	1AC15008.D	03/15/2013	14:10
	IC 660-135466/9	1AC15009.D	03/15/2013	14:25
	ICV 660-135466/10	1AC15010.D	03/15/2013	14:39

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Lab File ID: 1AC26002.D DFTPP Injection Date: 03/26/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 11:15

Analysis Batch No.: 135850

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	73.6	
68	Less than 2.0 % of mass 69	0.8	(1.4)1
69	Mass 69 relative abundance	57.4	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	51.8	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.0	
275	10.0 - 60.0 % of mass 198	27.4	
365	Greater than 1.0 % of mass 198	7.2	
441	Present but less than mass 443	11.0	
442	Greater than 50.0 % of mass 198	65.2	
443	15.0 - 24.0 % of mass 442	12.4	(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
	CCVIS 660-135850/3	1AC26003.D	03/26/2013	11:28
	MB 660-135631/1-A	1AC26005.D	03/26/2013	11:59
	LCS 660-135631/2-A	1AC26006.D	03/26/2013	12:15
	680-88420-A-12-C MSD	1AC26009.D	03/26/2013	13:08
CV0353A-CS-SP	680-88420-23	1AC26018.D	03/26/2013	17:08
CV0353B-CS-SP	680-88420-24	1AC26019.D	03/26/2013	17:23
CV0865A-CS-SP	680-88420-25	1AC26020.D	03/26/2013	17:38
CV0770B-CS-SP	680-88420-28	1AC26022.D	03/26/2013	18:09
CV0766A-CS-SP	680-88420-29	1AC26023.D	03/26/2013	18:24
CV0968A-CS-SP	680-88420-30	1AC26024.D	03/26/2013	18:39
CV0968B-CS-SP	680-88420-31	1AC26025.D	03/26/2013	18:54
CV0292B-CS-SP	680-88420-36	1AC26027.D	03/26/2013	19:24
CV0292C-CS-SP	680-88420-37	1AC26028.D	03/26/2013	19:39

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

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

Instrument ID: BSMC5973 DFTPP Injection Time: 11:41

Analysis Batch No.: 134776

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

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Lab File ID: 1CC25002.D DFTPP Injection Date: 03/25/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 12:15

Analysis Batch No.: 135753

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	34.6	
68	Less than 2.0 % of mass 69	0.8	(1.8)1
69	Mass 69 relative abundance	44.5	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	44.5	
197	Less than 2.0 % of mass 198	0.7	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.2	
275	10.0 - 60.0 % of mass 198	20.3	
365	Greater than 1.0 % of mass 198	2.9	
441	Present but less than mass 443	10.2	
442	Greater than 50.0 % of mass 198	70.4	
443	15.0 - 24.0 % of mass 442	14.7	(20.9)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 660-135753/3	1CC25003.D	03/25/2013	12:33
	MB 660-135688/1-A	1CC25005.D	03/25/2013	13:11
	LCS 660-135688/2-A	1CC25006.D	03/25/2013	13:30
CV0865B-CS-SP	680-88420-26	1CC25012.D	03/25/2013	15:20
CV0865B-CS-SP MS	680-88420-26 MS	1CC25013.D	03/25/2013	15:38
CV0865B-CS-SP MSD	680-88420-26 MSD	1CC25014.D	03/25/2013	15:57

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Lab File ID: 1CC27002.D DFTPP Injection Date: 03/27/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 10:18

Analysis Batch No.: 135830

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	38.7	
68	Less than 2.0 % of mass 69	1.0	(2.0)1
69	Mass 69 relative abundance	49.9	
70	Less than 2.0 % of mass 69	0.4	(0.8)1
127	10.0 - 80.0 % of mass 198	47.6	
197	Less than 2.0 % of mass 198	1.1	
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	18.4	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	8.2	
442	Greater than 50.0 % of mass 198	55.2	
443	15.0 - 24.0 % of mass 442	12.1	(21.9)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 660-135830/3	1CC27003.D	03/27/2013	10:35
	680-88420-A-12-B MS	1CC27030.D	03/27/2013	19:03
CV1037A-CS	680-88420-21	1CC27033.D	03/27/2013	19:58
CV1037B-CS	680-88420-22	1CC27034.D	03/27/2013	20:16
CV0770A-CS-SP	680-88420-27	1CC27035.D	03/27/2013	20:34
CV0292A-CS-SP	680-88420-35	1CC27036.D	03/27/2013	20:53

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Sample No.: ICIS 660-135466/3 Date Analyzed: 03/15/2013 12:54

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

Lab File ID (Standard): 1AC15003.D Heated Purge: (Y/N) N

Calibration ID: 2833

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		466294	2.30	299519	3.32	466296	4.25
UPPER LIMIT		932588	2.80	599038	3.82	932592	4.75
LOWER LIMIT		233147	1.80	149760	2.82	233148	3.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-135466/10		495704	2.31	291089	3.33	473626	4.25

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.: 680-88420-2

SDG No.: 68088420-2

Sample No.: ICIS 660-135466/3 Date Analyzed: 03/15/2013 12:54

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

Lab File ID (Standard): 1AC15003.D Heated Purge: (Y/N) N

Calibration ID: 2833

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		425528	6.25	422731	7.33		
UPPER LIMIT		851056	6.75	845462	7.83		
LOWER LIMIT		212764	5.75	211366	6.83		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-135466/10		433094	6.24	475583	7.33		

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.: 680-88420-2

SDG No.: 68088420-2

Sample No.: CCVIS 660-135850/3 Date Analyzed: 03/26/2013 11:28

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

Lab File ID (Standard): 1AC26003.D Heated Purge: (Y/N) N

Calibration ID: 2833

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		509128	2.27	363732	3.29	582610	4.21
UPPER LIMIT		1018256	2.77	727464	3.79	1165220	4.71
LOWER LIMIT		254564	1.77	181866	2.79	291305	3.71
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135631/1-A		377337	2.27	278086	3.29	415737	4.20
LCS 660-135631/2-A		544182	2.27	358843	3.29	564804	4.21
680-88420-A-12-C MSD		403465	2.27	294426	3.29	443904	4.21
680-88420-23	CV0353A-CS-SP	384876	2.27	293884	3.29	447652	4.21
680-88420-24	CV0353B-CS-SP	402759	2.27	306668	3.29	489694	4.22
680-88420-25	CV0865A-CS-SP	392425	2.28	328297	3.30	469842	4.22
680-88420-28	CV0770B-CS-SP	613896	2.28	514221	3.30	743036	4.22
680-88420-29	CV0766A-CS-SP	408340	2.28	361845	3.30	489914	4.22
680-88420-30	CV0968A-CS-SP	658192	2.28	526527	3.30	830617	4.23
680-88420-31	CV0968B-CS-SP	383503	2.28	294672	3.30	460003	4.22
680-88420-36	CV0292B-CS-SP	642643	2.28	564810	3.30	754209	4.22
680-88420-37	CV0292C-CS-SP	427587	2.28	340576	3.30	484787	4.22

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.: 680-88420-2

SDG No.: 68088420-2

Sample No.: CCVIS 660-135850/3 Date Analyzed: 03/26/2013 11:28

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

Lab File ID (Standard): 1AC26003.D Heated Purge: (Y/N) N

Calibration ID: 2833

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		582279	6.19	536475	7.27		
UPPER LIMIT		1164558	6.69	1072950	7.77		
LOWER LIMIT		291140	5.69	268238	6.77		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135631/1-A		432209	6.18	464534	7.27		
LCS 660-135631/2-A		603297	6.19	589267	7.27		
680-88420-A-12-C MSD		337381	6.20	395007	7.29		
680-88420-23	CV0353A-CS-SP	292924	6.21	358698	7.30		
680-88420-24	CV0353B-CS-SP	312695	6.21	375968	7.30		
680-88420-25	CV0865A-CS-SP	340182	6.21	437686	7.30		
680-88420-28	CV0770B-CS-SP	599951	6.22	722077	7.32		
680-88420-29	CV0766A-CS-SP	431011	6.22	597883	7.33		
680-88420-30	CV0968A-CS-SP	614622	6.22	780404	7.32		
680-88420-31	CV0968B-CS-SP	347625	6.22	426771	7.31		
680-88420-36	CV0292B-CS-SP	552295	6.22	717254	7.32		
680-88420-37	CV0292C-CS-SP	343204	6.21	442692	7.32		

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.: 680-88420-2

SDG No.: 68088420-2

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

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

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

Calibration ID: 2760

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

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

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

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

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

Calibration ID: 2760

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

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Sample No.: CCVIS 660-135753/3 Date Analyzed: 03/25/2013 12:33

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

Lab File ID (Standard): 1CC25003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		865252	3.73	707658	4.82	1324682	5.77
UPPER LIMIT		1730504	4.23	1415316	5.32	2649364	6.27
LOWER LIMIT		432626	3.23	353829	4.32	662341	5.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135688/1-A		726242	3.73	577693	4.82	1104071	5.77
LCS 660-135688/2-A		702460	3.73	575205	4.82	1067866	5.77
680-88420-26	CV0865B-CS-SP	782801	3.73	655880	4.82	1228523	5.77
680-88420-26 MS	CV0865B-CS-SP MS	872507	3.73	703765	4.82	1359575	5.77
680-88420-26 MSD	CV0865B-CS-SP MSD	940113	3.73	776204	4.82	1476412	5.77

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.: 680-88420-2

SDG No.: 68088420-2

Sample No.: CCVIS 660-135753/3 Date Analyzed: 03/25/2013 12:33

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

Lab File ID (Standard): 1CC25003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1661991	7.72	1628045	8.90		
UPPER LIMIT		3323982	8.22	3256090	9.40		
LOWER LIMIT		830996	7.22	814023	8.40		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135688/1-A		1405834	7.71	1441890	8.89		
LCS 660-135688/2-A		1388449	7.71	1412859	8.89		
680-88420-26	CV0865B-CS-SP	1453619	7.71	1440771	8.90		
680-88420-26 MS	CV0865B-CS-SP MS	1566025	7.71	1503815	8.90		
680-88420-26 MSD	CV0865B-CS-SP MSD	1704735	7.71	1546217	8.90		

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.: 680-88420-2

SDG No.: 68088420-2

Sample No.: CCVIS 660-135830/3 Date Analyzed: 03/27/2013 10:35

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

Lab File ID (Standard): 1CC27003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		740866	3.73	575327	4.82	1092531	5.76
UPPER LIMIT		1481732	4.23	1150654	5.32	2185062	6.26
LOWER LIMIT		370433	3.23	287664	4.32	546266	5.26
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88420-A-12-B MS		748184	3.73	600094	4.82	1084844	5.76
680-88420-21	CV1037A-CS	805943	3.73	620303	4.82	1088392	5.76
680-88420-22	CV1037B-CS	786719	3.73	605685	4.82	1094875	5.76
680-88420-27	CV0770A-CS-SP	796209	3.73	635182	4.82	1092320	5.76
680-88420-35	CV0292A-CS-SP	780923	3.73	626831	4.82	1105614	5.76

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.: 680-88420-2

SDG No.: 68088420-2

Sample No.: CCVIS 660-135830/3 Date Analyzed: 03/27/2013 10:35

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

Lab File ID (Standard): 1CC27003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1389214	7.70	1427635	8.89		
UPPER LIMIT		2778428	8.20	2855270	9.39		
LOWER LIMIT		694607	7.20	713818	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88420-A-12-B MS		1208629	7.71	1100846	8.89		
680-88420-21	CV1037A-CS	1175402	7.71	1086398	8.89		
680-88420-22	CV1037B-CS	2349679	7.71	1119651	8.89		
680-88420-27	CV0770A-CS-SP	1138971	7.71	1087884	8.89		
680-88420-35	CV0292A-CS-SP	1170343	7.70	1069405	8.89		

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.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV1037A-CS | Lab Sample ID: 680-88420-21

Matrix: Solid | Lab File ID: 1CC27033.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 14:30

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 14.91(g) | Date Analyzed: 03/27/2013 19:58

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

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

% Moisture: 13.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135830 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	52	J	120	23
208-96-8	Acenaphthylene	48		46	5.8
120-12-7	Anthracene	170		9.7	4.9
56-55-3	Benzo[a]anthracene	800		9.2	4.5
50-32-8	Benzo[a]pyrene	760		12	6.0
205-99-2	Benzo[b]fluoranthene	1100		14	7.1
191-24-2	Benzo[g,h,i]perylene	490		23	5.1
207-08-9	Benzo[k]fluoranthene	590		9.2	4.2
218-01-9	Chrysene	860		10	5.2
53-70-3	Dibenz(a,h)anthracene	160		23	4.7
206-44-0	Fluoranthene	1500		23	4.6
86-73-7	Fluorene	47		23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	490		23	8.2
90-12-0	1-Methylnaphthalene	90		46	5.1
91-57-6	2-Methylnaphthalene	130		46	8.2
91-20-3	Naphthalene	110		46	5.1
85-01-8	Phenanthrene	790		9.2	4.5
129-00-0	Pyrene	1400		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27033.D
Lab Smp Id: 680-88420-A-21-A Client Smp ID: CV1037A-CS
Inj Date : 27-MAR-2013 19:58
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88420-a-21-a
Misc Info : 680-88420-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.910	Weight Extracted
M	12.955	% 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	3.727	3.727	(1.000)	805943	40.0000	
* 6 Acenaphthene-d10	164	4.816	4.815	(1.000)	620303	40.0000	
* 10 Phenanthrene-d10	188	5.763	5.762	(1.000)	1088392	40.0000	
$ 14 o-Terphenyl	230	6.016	6.015	(1.044)	115760	7.04442	542.7771
* 18 Chrysene-d12	240	7.710	7.704	(1.000)	1175402	40.0000	
* 23 Perylene-d12	264	8.892	8.886	(1.000)	1086398	40.0000	
2 Naphthalene	128	3.739	3.739	(1.003)	30771	1.46656	112.9994
3 2-Methylnaphthalene	142	4.169	4.168	(1.118)	23384	1.67079	128.7357
4 1-Methylnaphthalene	142	4.227	4.227	(1.134)	14948	1.17269	90.3564
5 Acenaphthylene	152	4.727	4.727	(0.982)	15538	0.62130	47.8719
7 Acenaphthene	154	4.839	4.833	(1.005)	10396	0.66880	51.5313(Q)
9 Fluorene	166	5.157	5.157	(1.071)	11916	0.60615	46.7040(Q)
11 Phenanthrene	178	5.780	5.780	(1.003)	320800	10.1934	785.4044
12 Anthracene	178	5.816	5.815	(1.009)	69071	2.24410	172.9094

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921	(1.028)	41901	1.53145	117.9993
15 Fluoranthene	202	6.616	6.615	(1.148)	682027	19.7889	1524.7495
16 Pyrene	202	6.786	6.786	(0.880)	565078	17.8894	1378.3928
17 Benzo(a)anthracene	228	7.698	7.698	(0.998)	351778	10.3695	798.9748
19 Chrysene	228	7.727	7.727	(1.002)	378919	11.1611	859.9728
20 Benzo(b)fluoranthene	252	8.545	8.539	(0.961)	411318	14.4873	1116.2561
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.963)	223397	7.67018	590.9922
22 Benzo(a)pyrene	252	8.839	8.833	(0.994)	271705	9.85239	759.1332
24 Indeno(1,2,3-cd)pyrene	276	10.051	10.050	(1.130)	166183	6.40578	493.5692(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.132)	52930	2.08586	160.7171
26 Benzo(g,h,i)perylene	276	10.404	10.397	(1.170)	173923	6.40878	493.8009

QC Flag Legend

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

Data File: 1CC27033.D

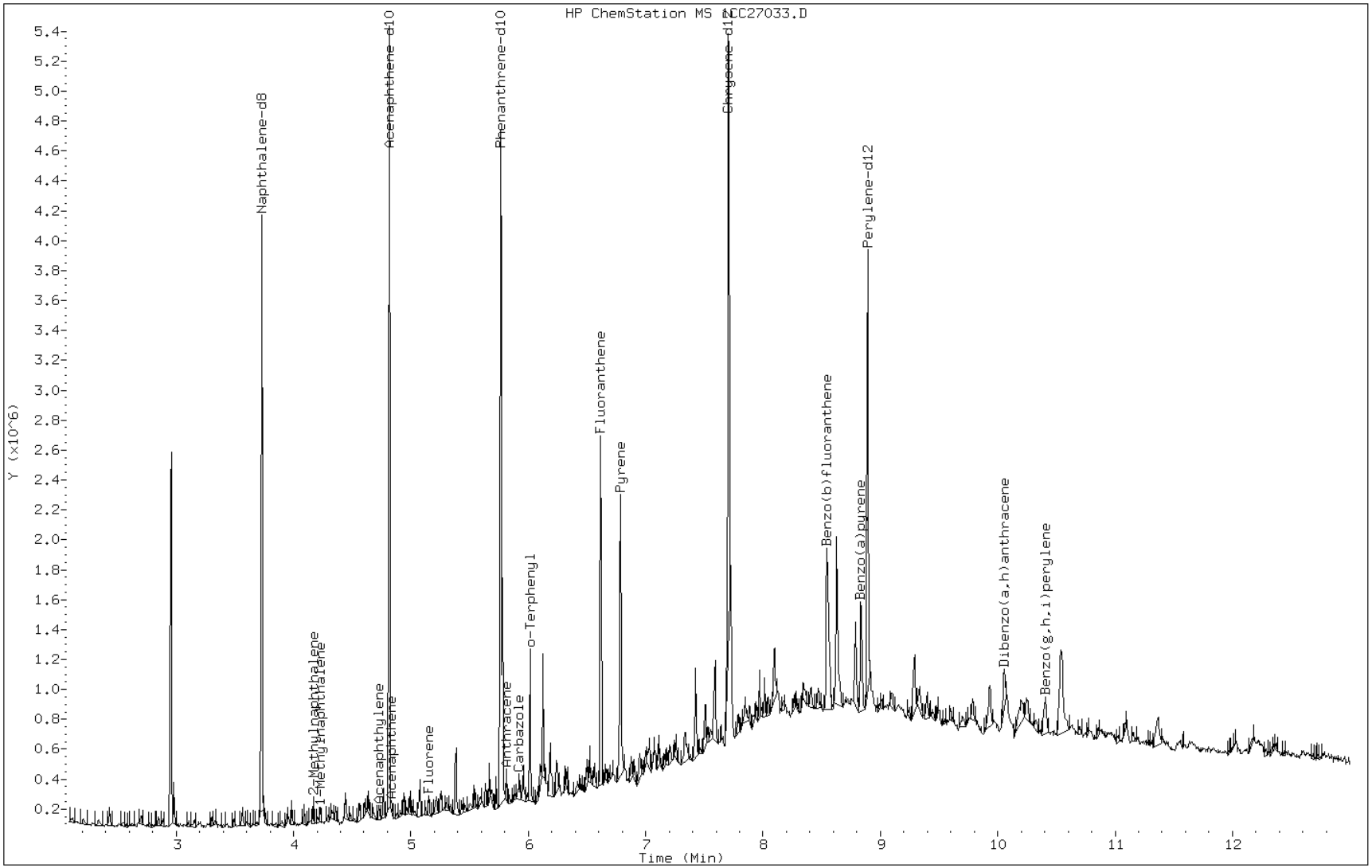
Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a

Operator: SCC



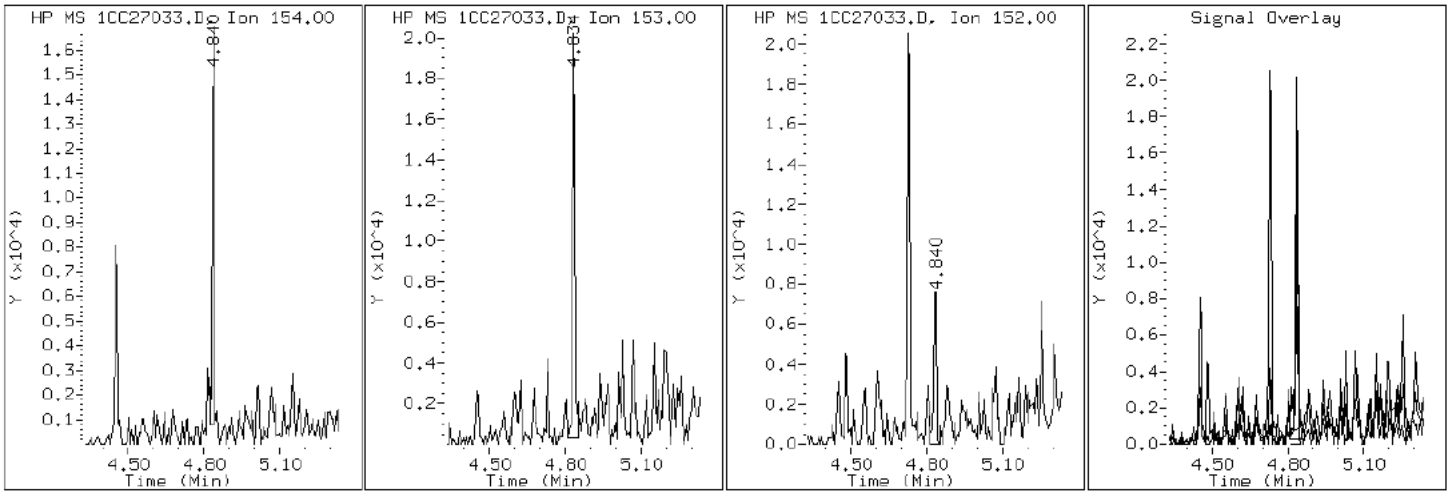
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS | Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a | Operator: SCC

7 Acenaphthene



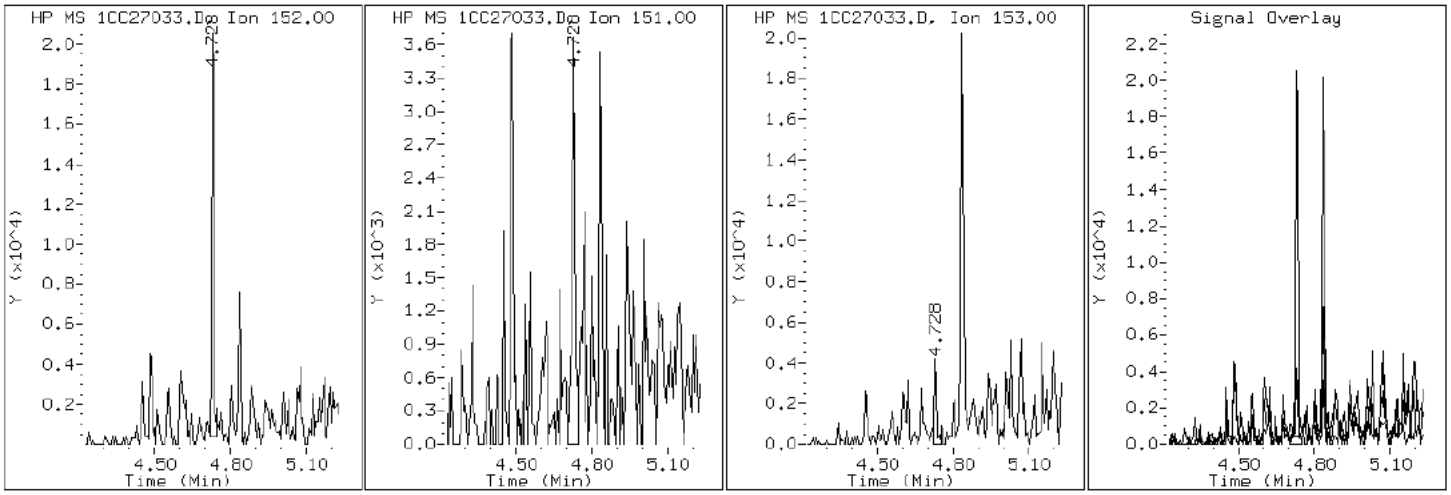
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

5 Acenaphthylene



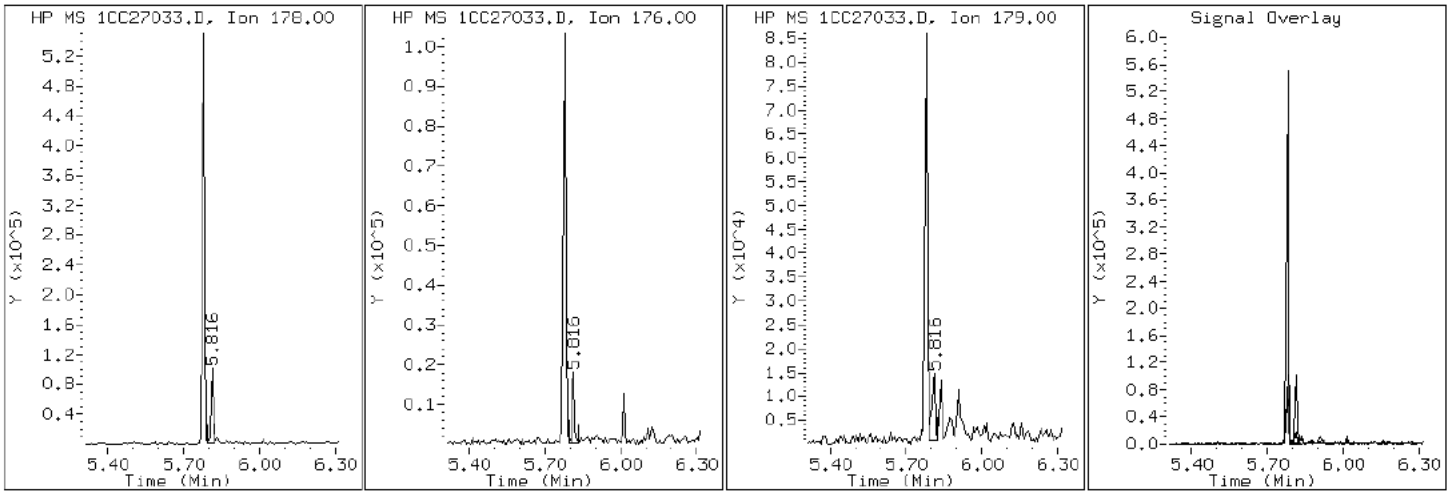
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS | Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a | Operator: SCC

12 Anthracene



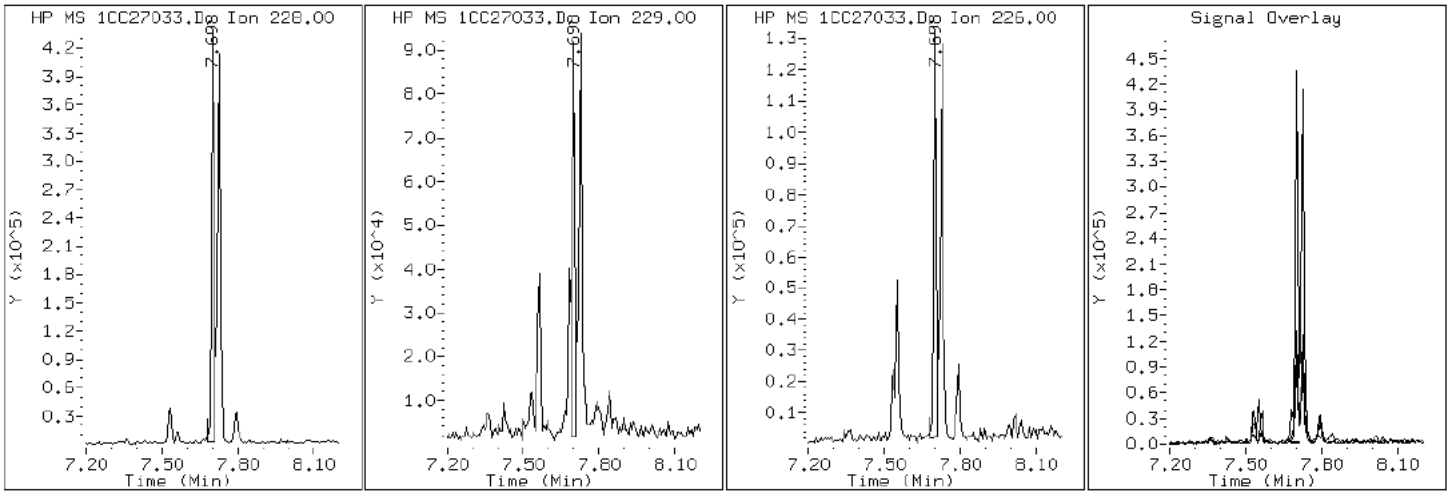
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

17 Benzo(a)anthracene



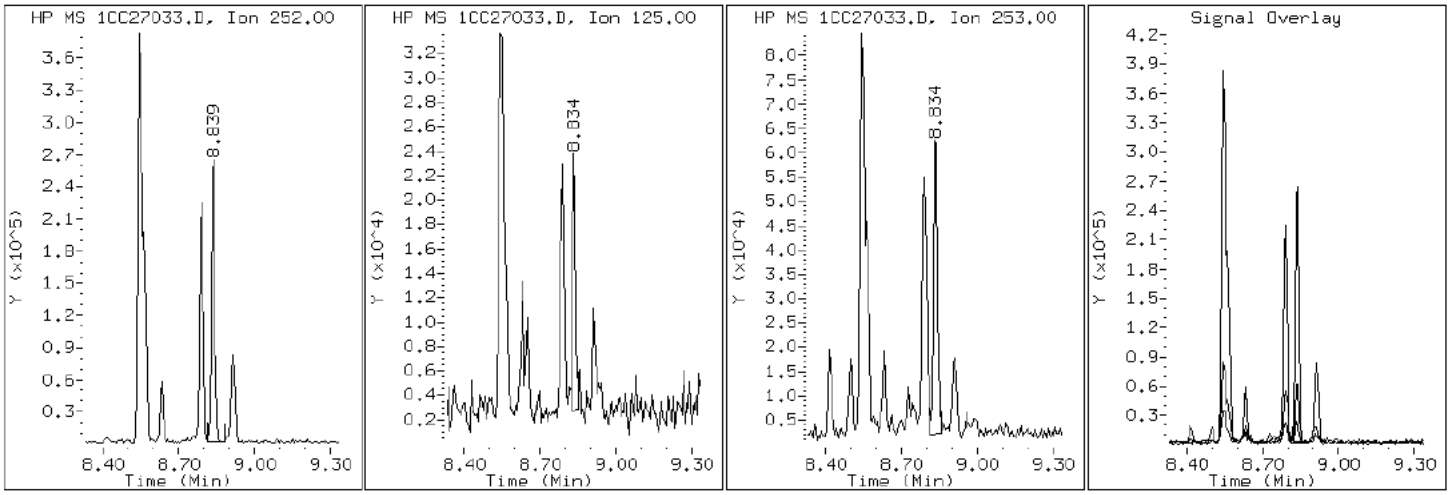
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

22 Benzo(a)pyrene



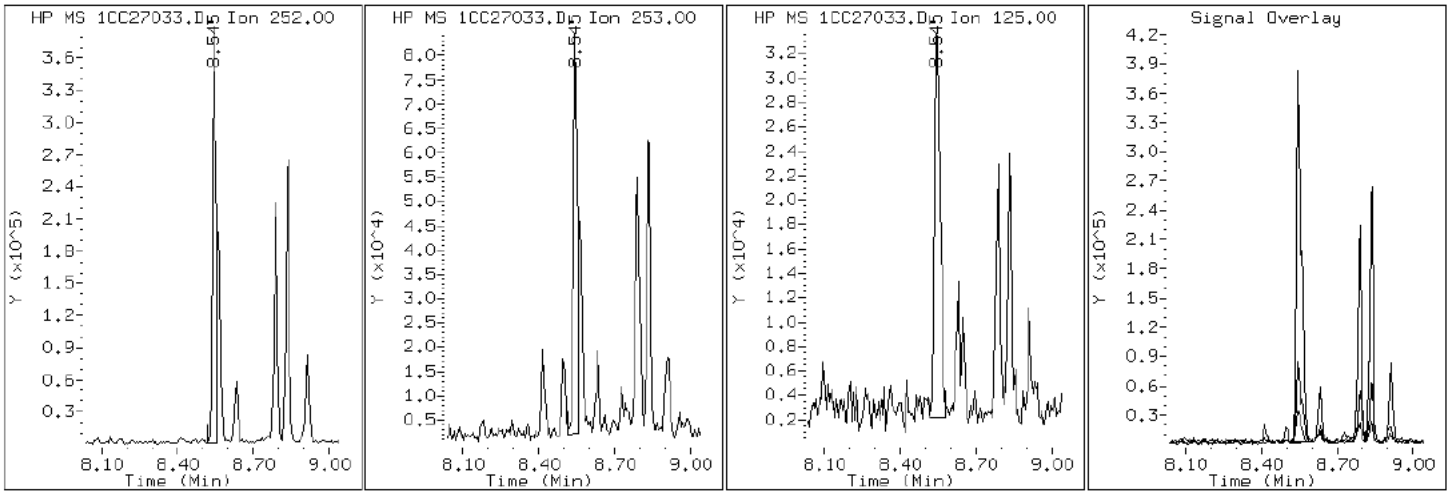
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

20 Benzo(b)fluoranthene



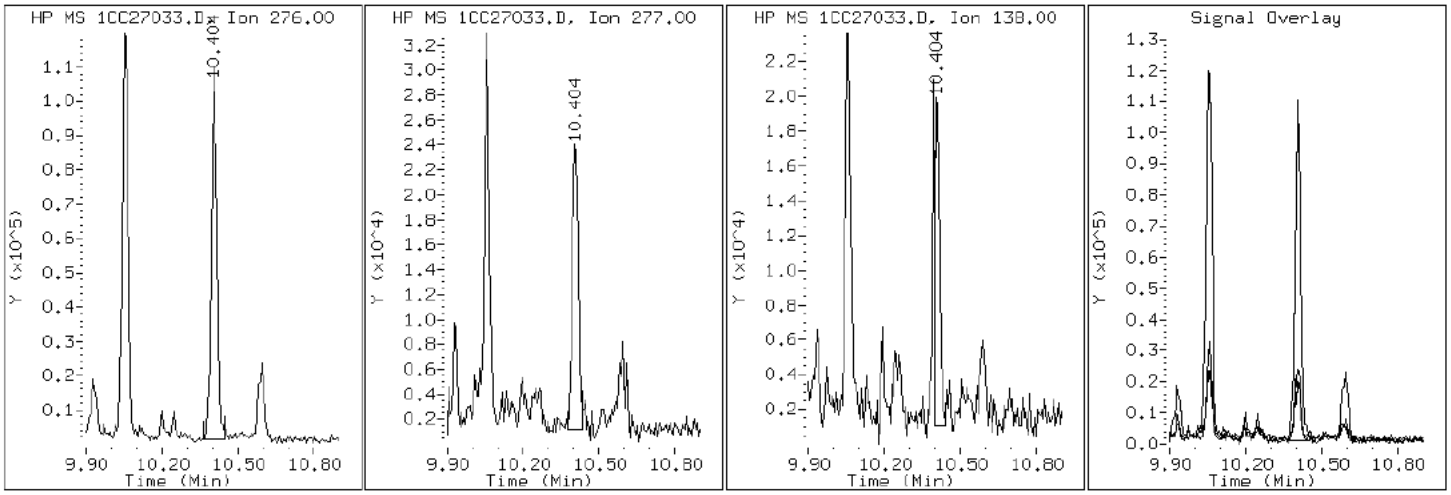
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

26 Benzo(g,h,i)perylene



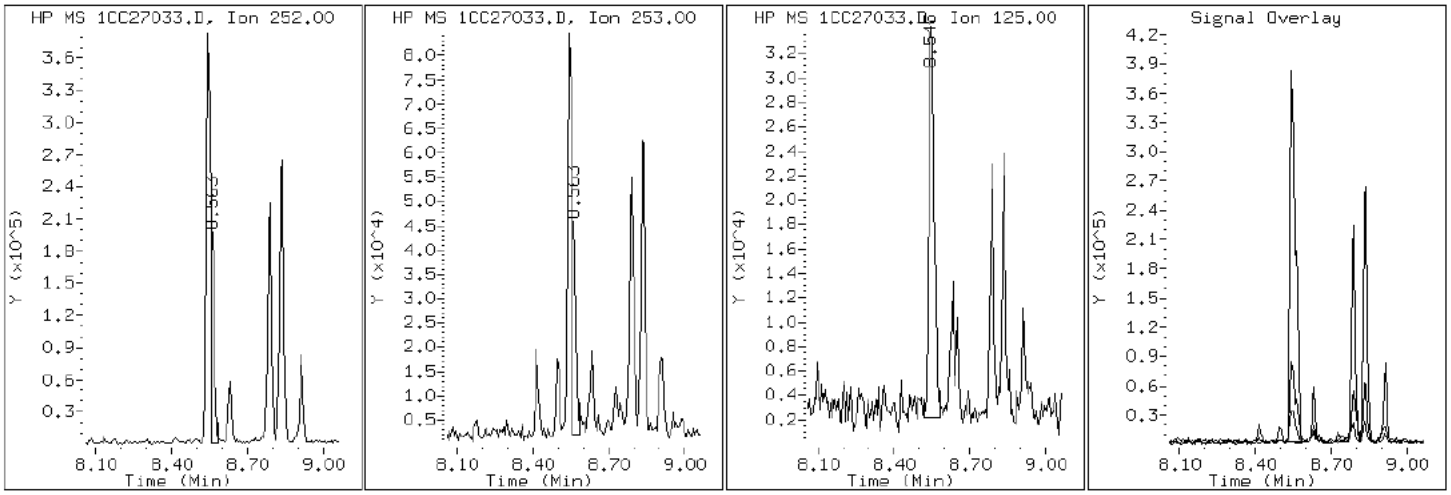
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS | Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a | Operator: SCC

21 Benzo(k)fluoranthene



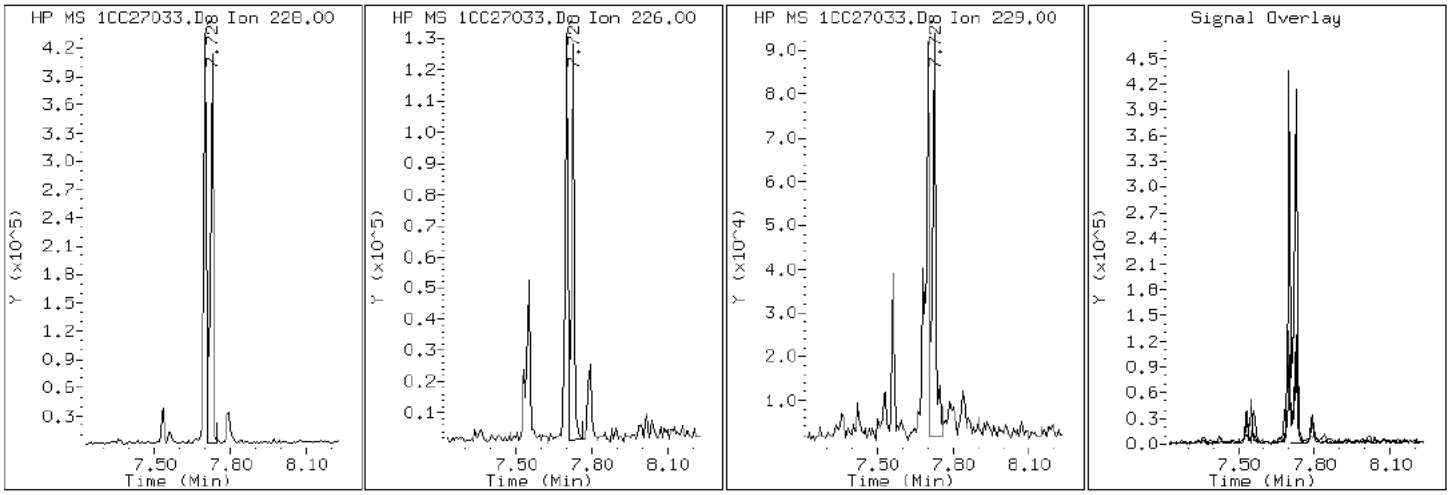
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

19 Chrysene



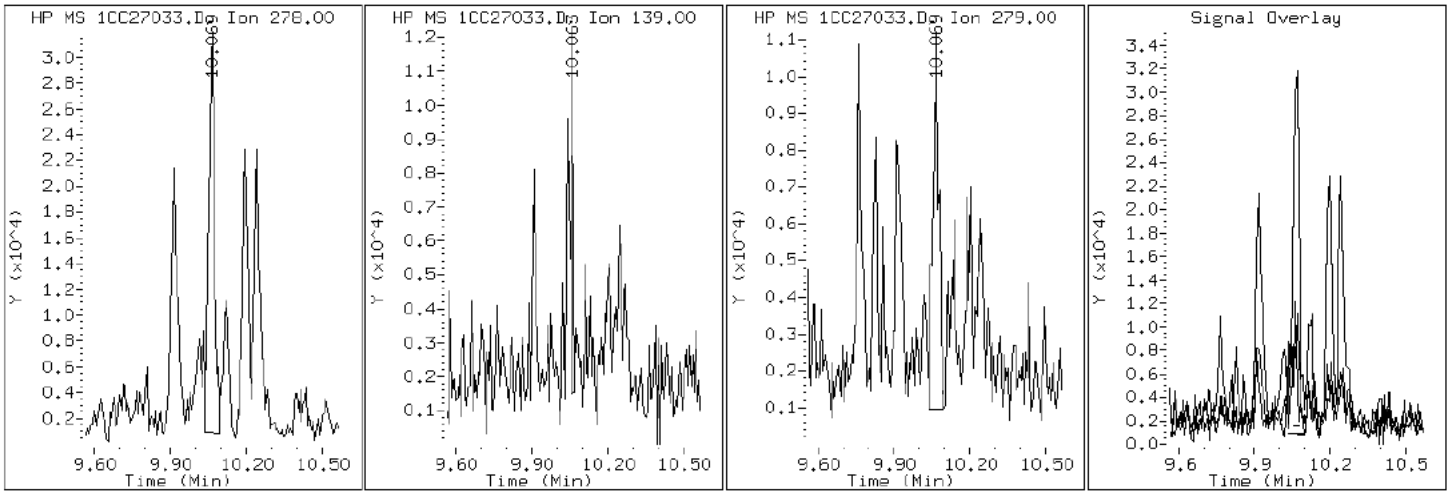
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

25 Dibenzo(a,h)anthracene



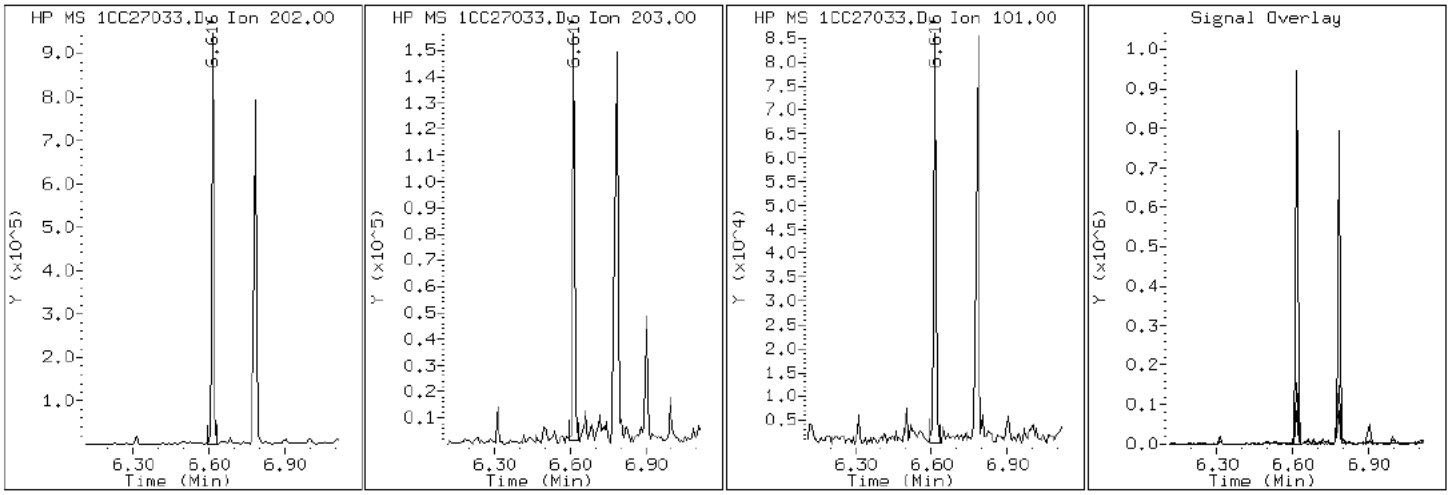
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

15 Fluoranthene



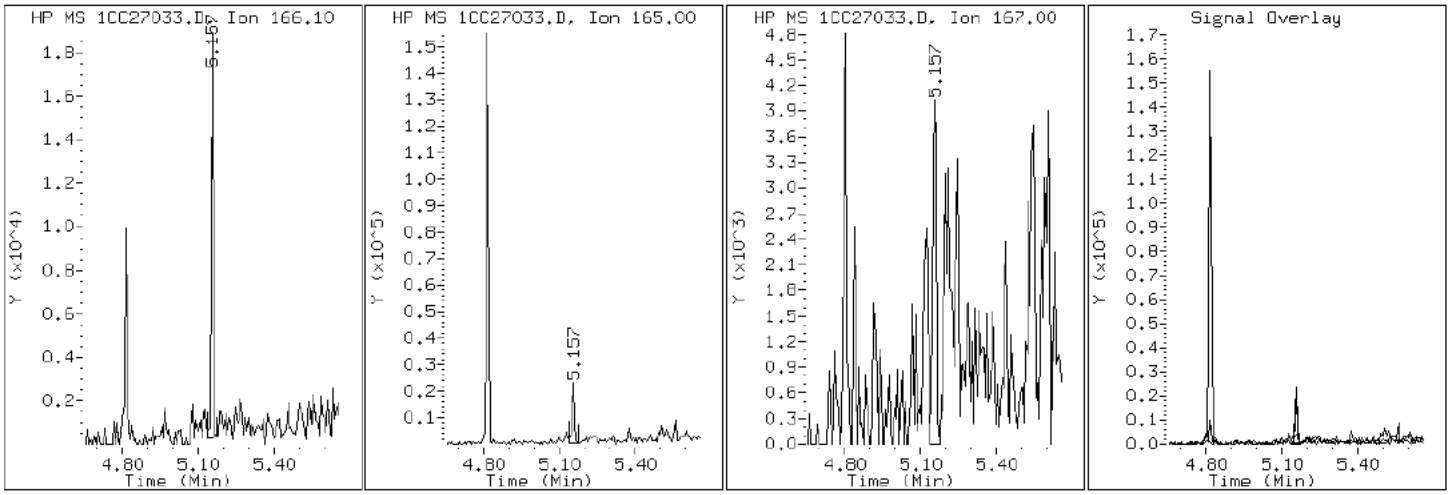
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

9 Fluorene



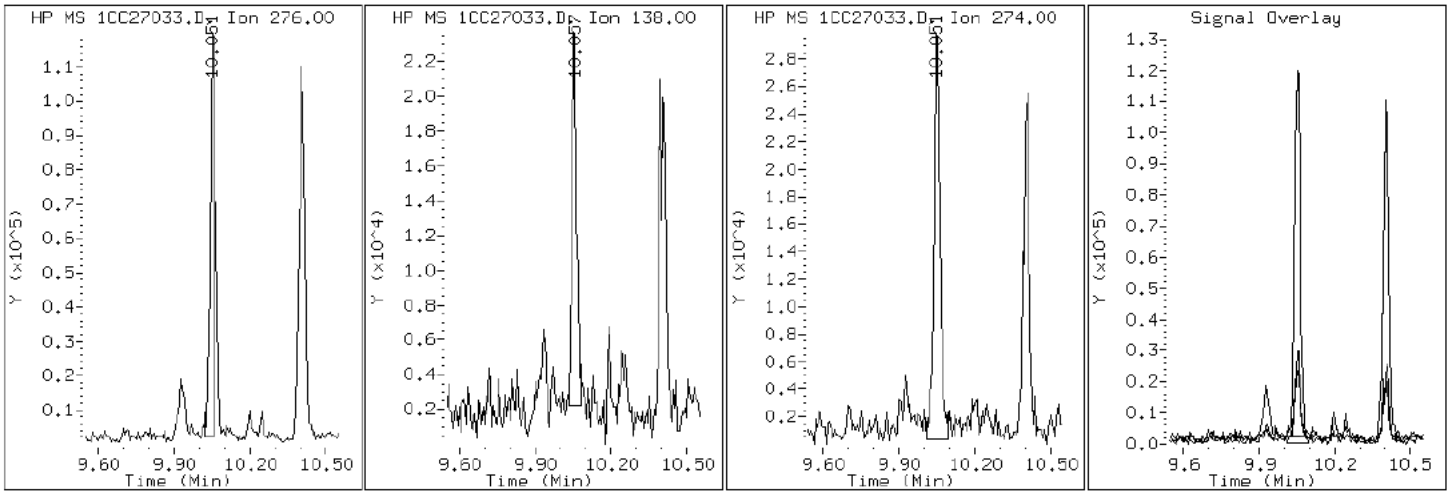
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

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



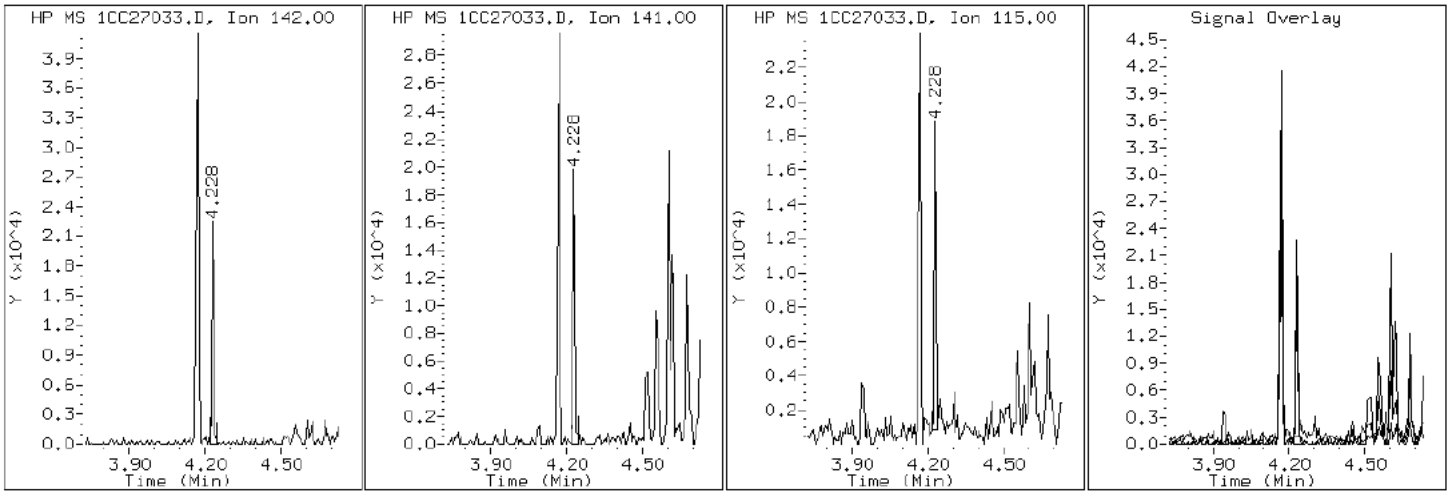
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

4 1-Methylnaphthalene



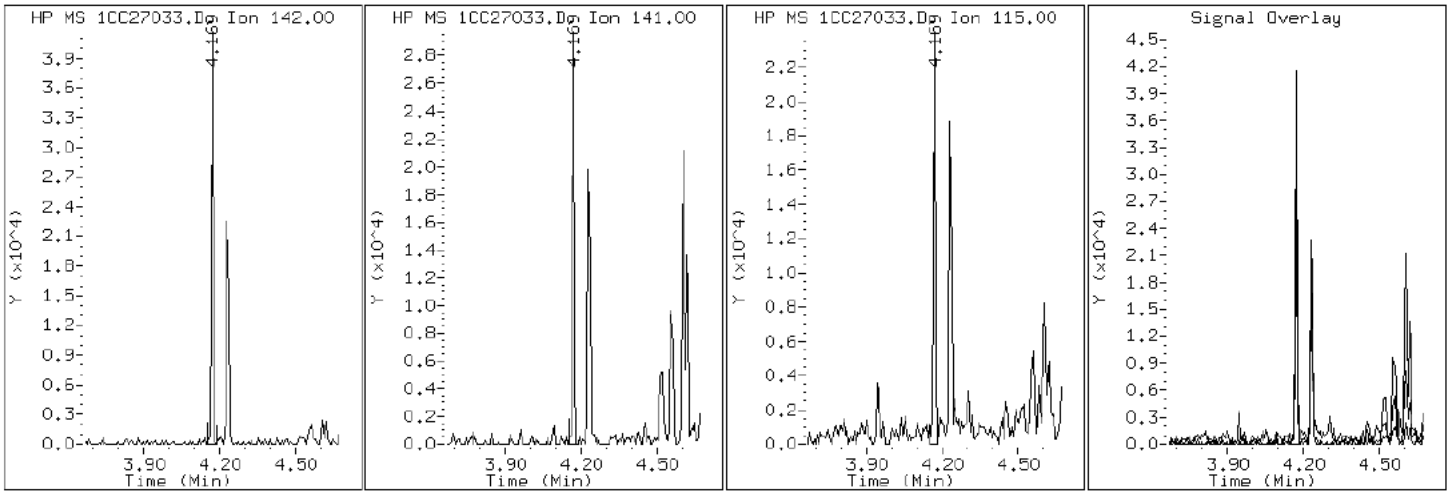
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

3 2-Methylnaphthalene



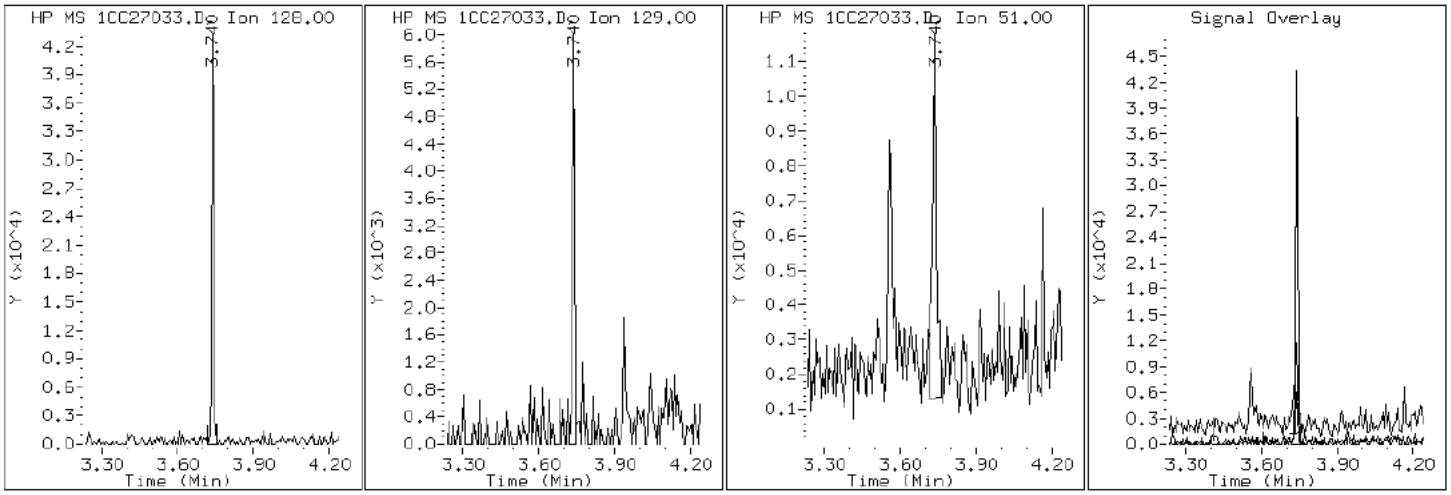
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

2 Naphthalene



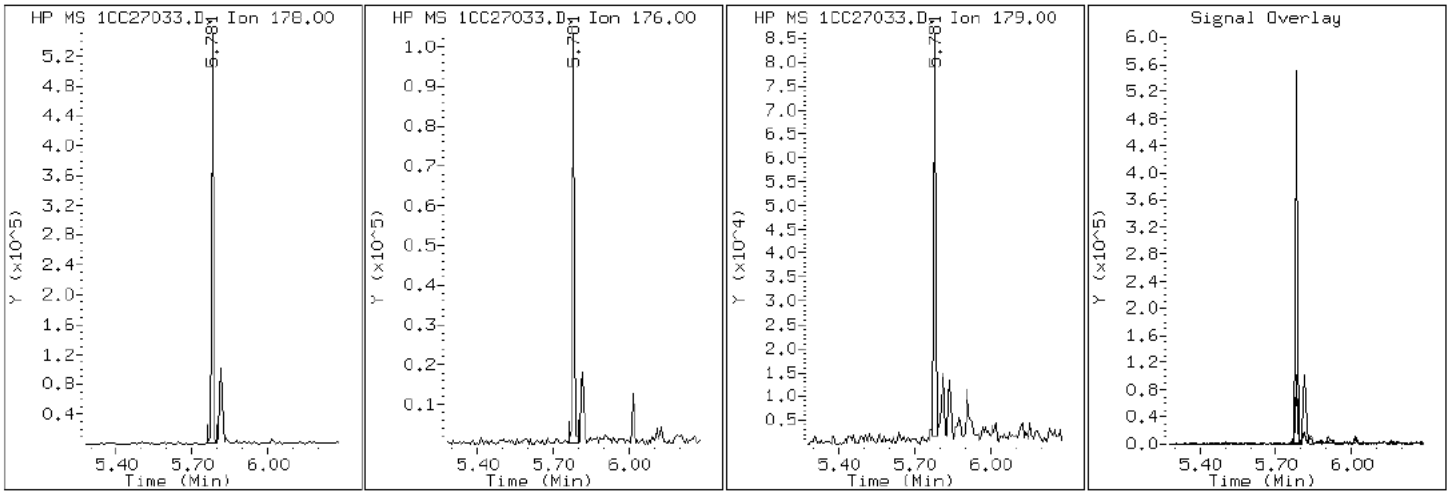
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

11 Phenanthrene



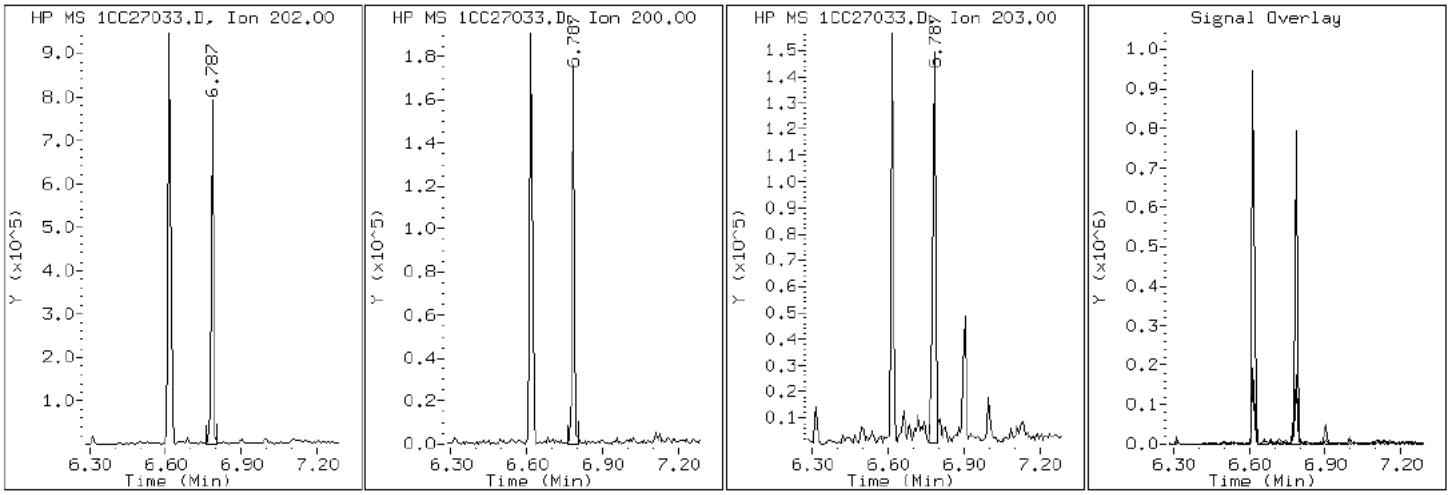
Data File: 1CC27033.D

Date: 27-MAR-2013 19:58

Client ID: CV1037A-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-21-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC27033.D
Inj. Date and Time: 27-MAR-2013 19:58
Instrument ID: BSMC5973.i
Client ID: CV1037A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

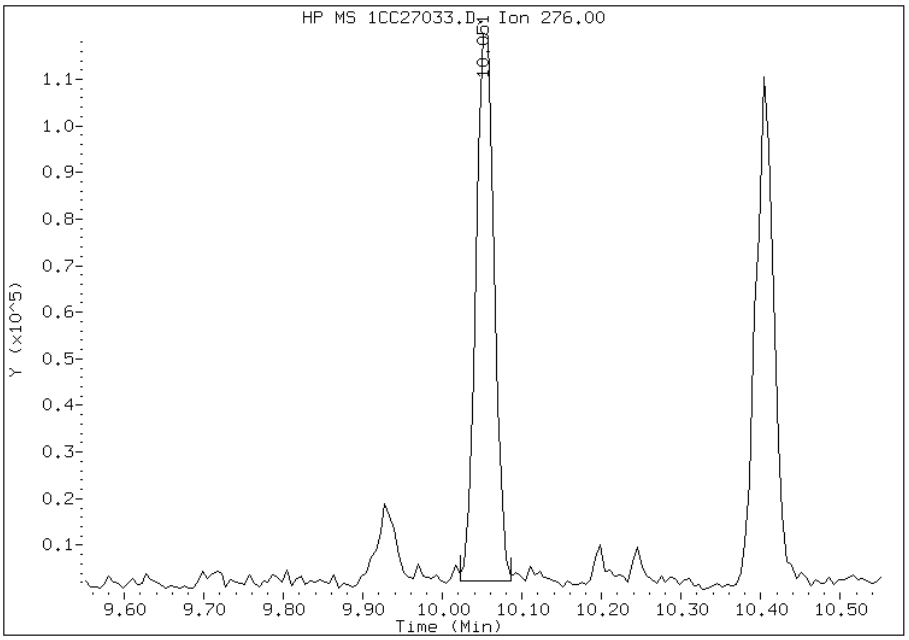
Processing Integration Results

RT: 10.05

Response: 187299

Amount: 7

Conc: 556



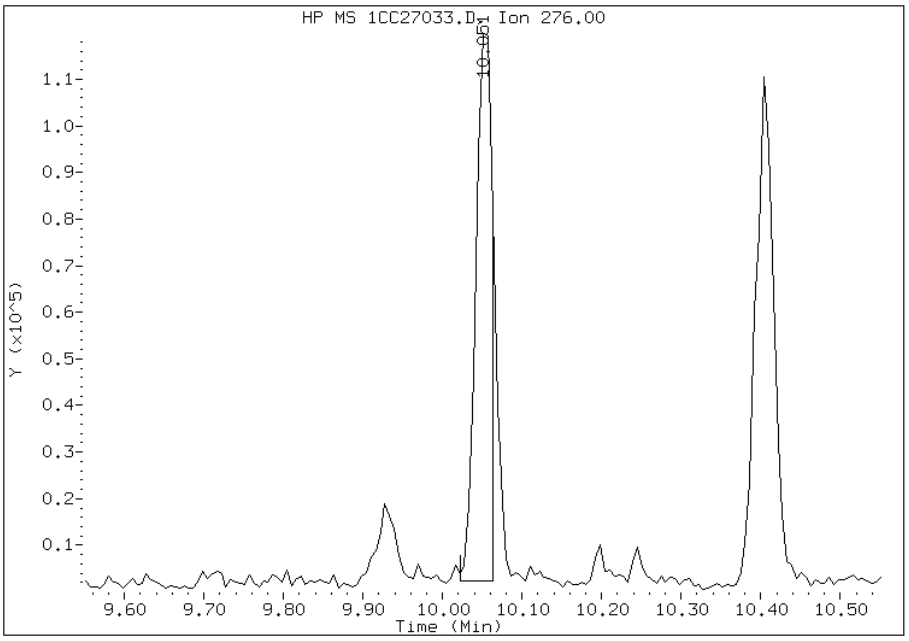
Manual Integration Results

RT: 10.05

Response: 166183

Amount: 6

Conc: 494



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV1037B-CS | Lab Sample ID: 680-88420-22

Matrix: Solid | Lab File ID: 1CC27034.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 14:40

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 15.49(g) | Date Analyzed: 03/27/2013 20:16

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

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

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135830 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	48		46	5.7
120-12-7	Anthracene	98		9.6	4.8
56-55-3	Benzo[a]anthracene	340		9.2	4.5
50-32-8	Benzo[a]pyrene	480		12	6.0
205-99-2	Benzo[b]fluoranthene	790		14	7.0
191-24-2	Benzo[g,h,i]perylene	350		23	5.1
207-08-9	Benzo[k]fluoranthene	300		9.2	4.1
218-01-9	Chrysene	460		10	5.2
53-70-3	Dibenz(a,h)anthracene	100		23	4.7
206-44-0	Fluoranthene	780		23	4.6
86-73-7	Fluorene	36		23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	290		23	8.2
90-12-0	1-Methylnaphthalene	110		46	5.1
91-57-6	2-Methylnaphthalene	170		46	8.2
91-20-3	Naphthalene	120		46	5.1
85-01-8	Phenanthrene	450		9.2	4.5
129-00-0	Pyrene	370		23	4.2

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\BSMC5973.i\1C032713.b\1CC27034.D
Lab Smp Id: 680-88420-A-22-A Client Smp ID: CV1037B-CS
Inj Date : 27-MAR-2013 20:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88420-a-22-a
Misc Info : 680-88420-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.490	Weight Extracted
M	15.677	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.727	3.727	(1.000)	786719	40.0000	
* 6 Acenaphthene-d10	164	4.815	4.815	(1.000)	605685	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.762	(1.000)	1094875	40.0000	
$ 14 o-Terphenyl	230	6.015	6.015	(1.044)	111597	6.75087	516.8474
* 18 Chrysene-d12	240	7.709	7.704	(1.000)	2349679	40.0000	
* 23 Perylene-d12	264	8.892	8.886	(1.000)	1119651	40.0000	
2 Naphthalene	128	3.739	3.739	(1.003)	32506	1.58711	121.5091
3 2-Methylnaphthalene	142	4.168	4.168	(1.118)	30531	2.23475	171.0929
4 1-Methylnaphthalene	142	4.227	4.227	(1.134)	18069	1.45217	111.1785
5 Acenaphthylene	152	4.727	4.727	(0.982)	15420	0.63147	48.3451
9 Fluorene	166	5.157	5.157	(1.071)	8936	0.46553	35.6410
11 Phenanthrene	178	5.780	5.780	(1.003)	185002	5.84359	447.3858
12 Anthracene	178	5.815	5.815	(1.009)	39469	1.27475	97.5946
13 Carbazole	167	5.921	5.921	(1.028)	32960	1.19753	91.6831

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.615	6.615	(1.148)	355178	10.2444	784.3137
16 Pyrene	202	6.786	6.786	(0.880)	307096	4.86340	372.3425
17 Benzo(a)anthracene	228	7.698	7.698	(0.998)	297727	4.39020	336.1139
19 Chrysene	228	7.721	7.727	(1.002)	411065	6.05690	463.7167
20 Benzo(b)fluoranthene	252	8.550	8.539	(0.962)	300739	10.2779	786.8794(M)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.963)	118452	3.94618	302.1198(M)
22 Benzo(a)pyrene	252	8.839	8.833	(0.994)	178991	6.29769	482.1519
24 Indeno(1,2,3-cd)pyrene	276	10.056	10.050	(1.131)	100989	3.77716	289.1797(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.132)	35839	1.37040	104.9176
26 Benzo(g,h,i)perylene	276	10.403	10.397	(1.170)	127107	4.54459	347.9338

QC Flag Legend

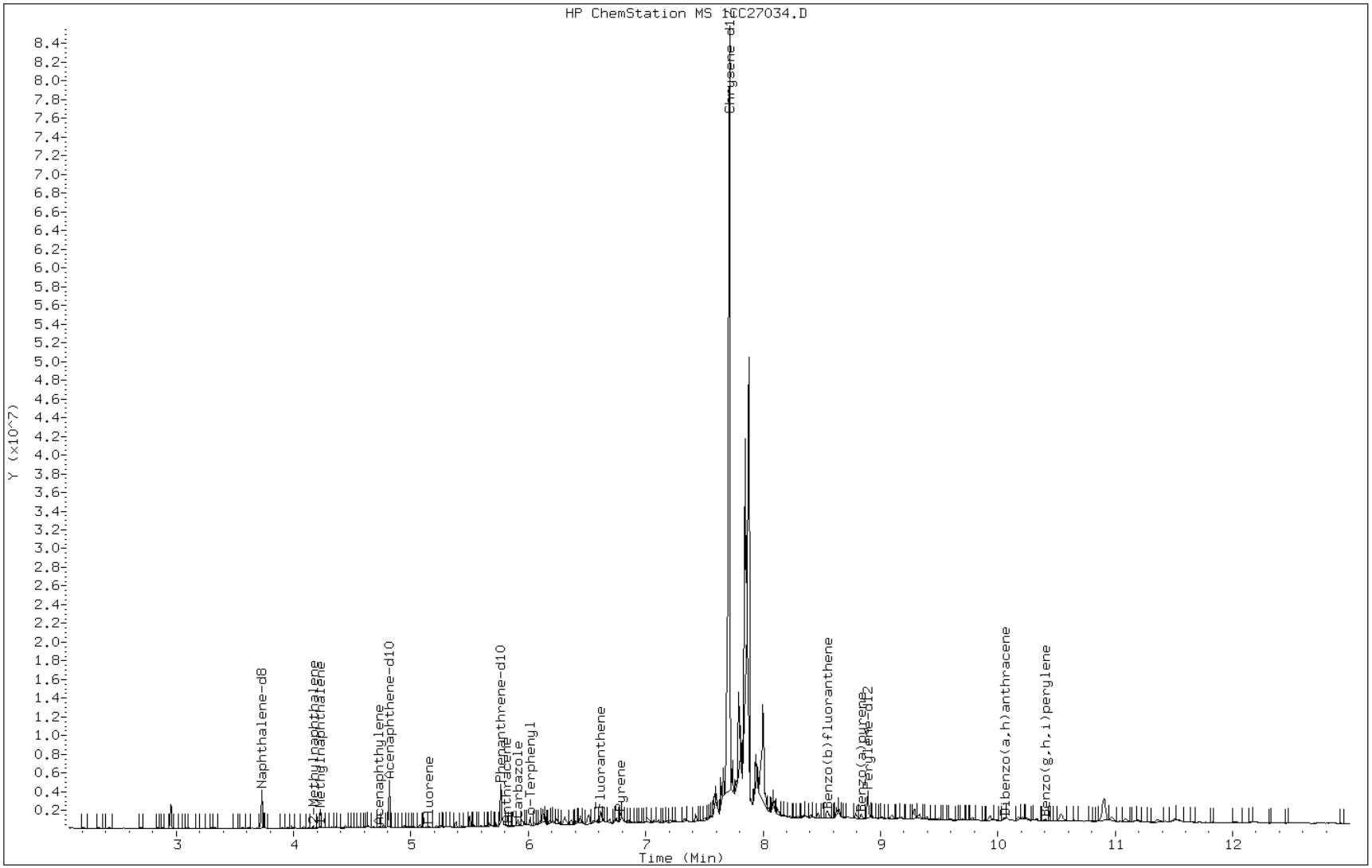
M - Compound response manually integrated.

Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS | Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a | Operator: SCC



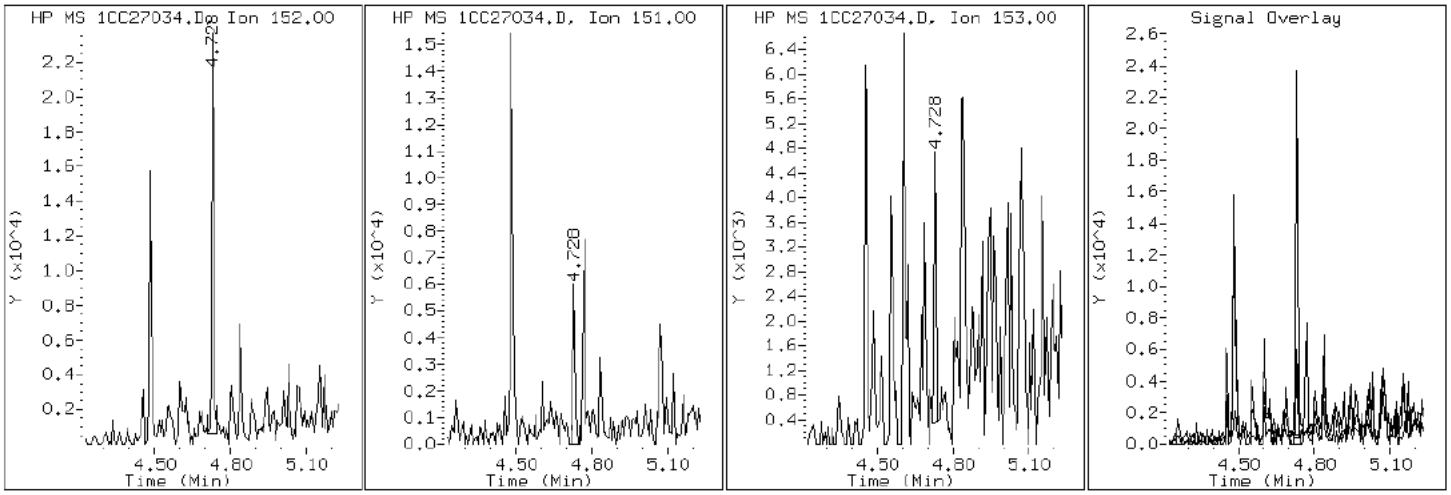
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

5 Acenaphthylene



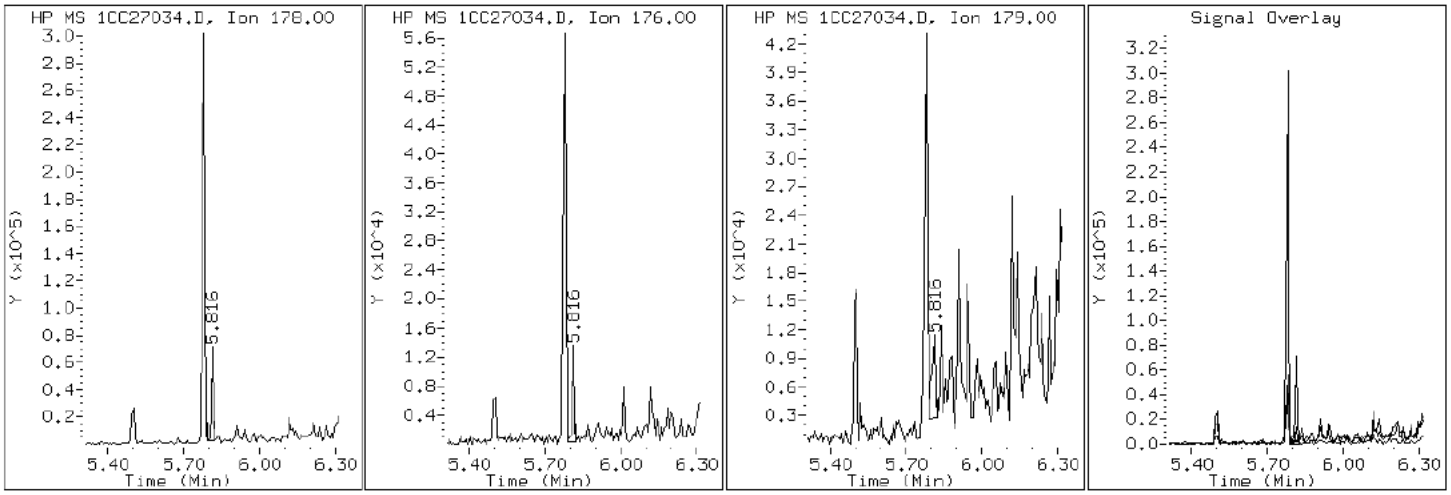
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

12 Anthracene



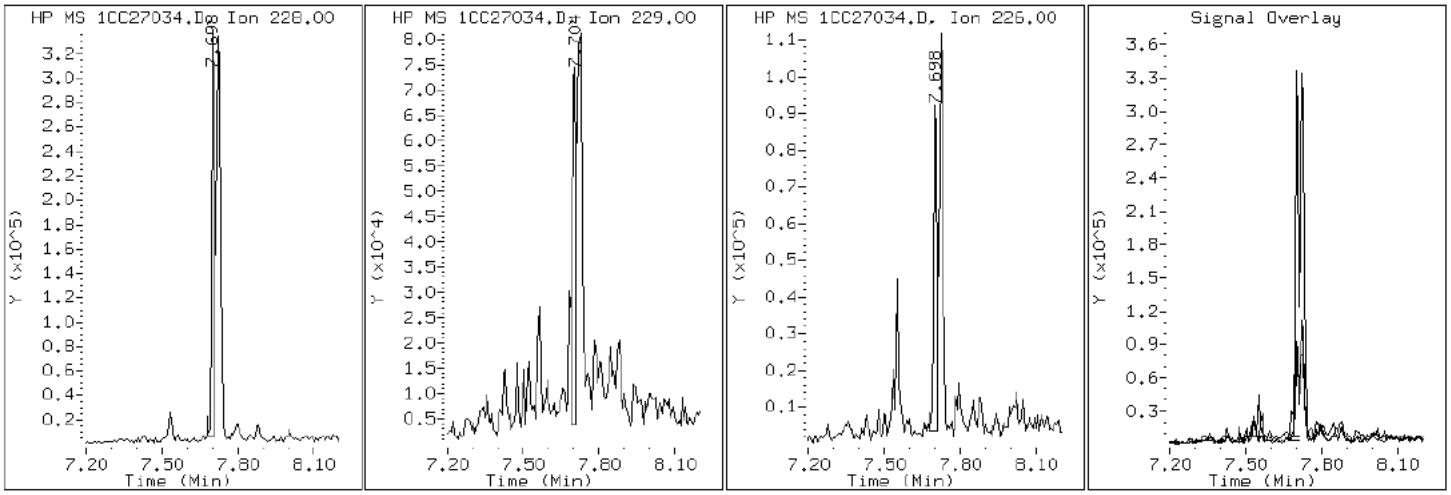
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

17 Benzo(a)anthracene



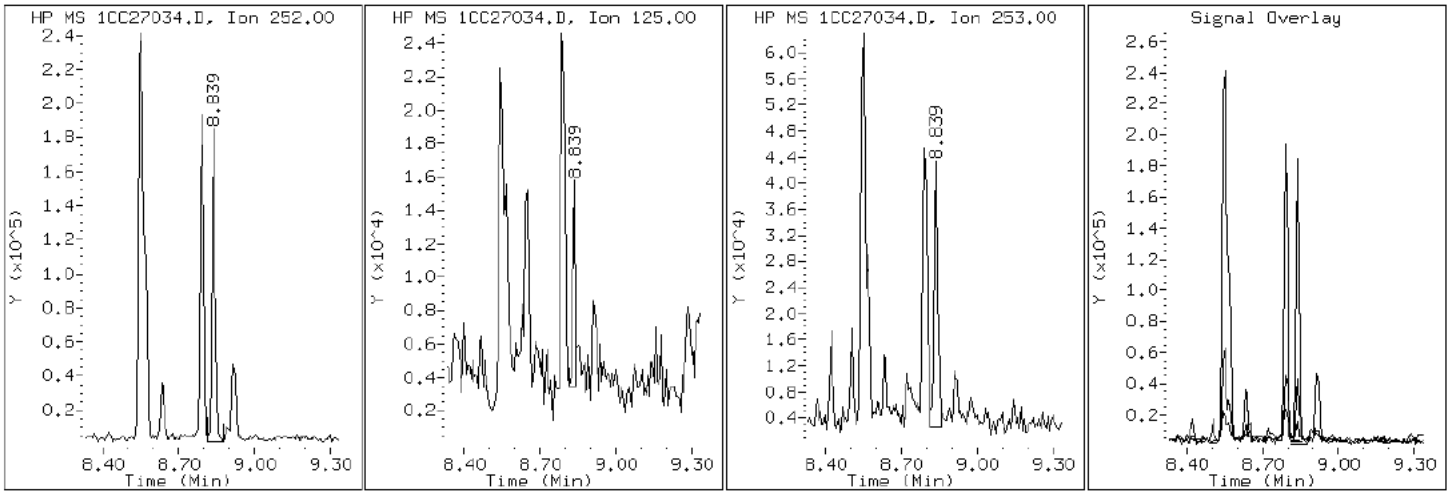
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

22 Benzo(a)pyrene



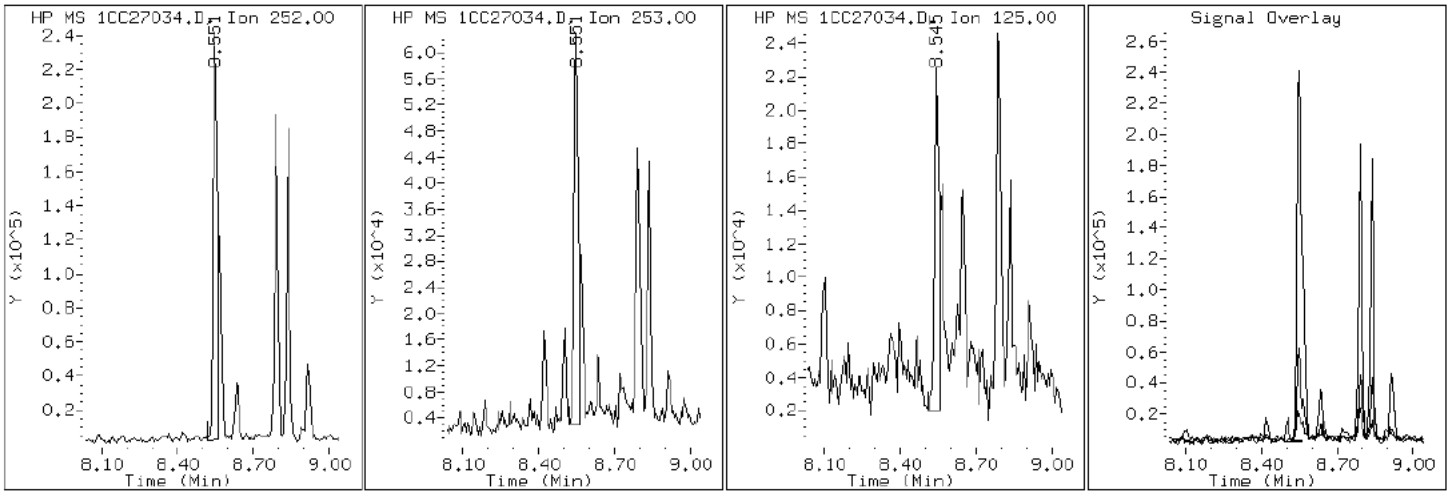
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

20 Benzo(b)fluoranthene



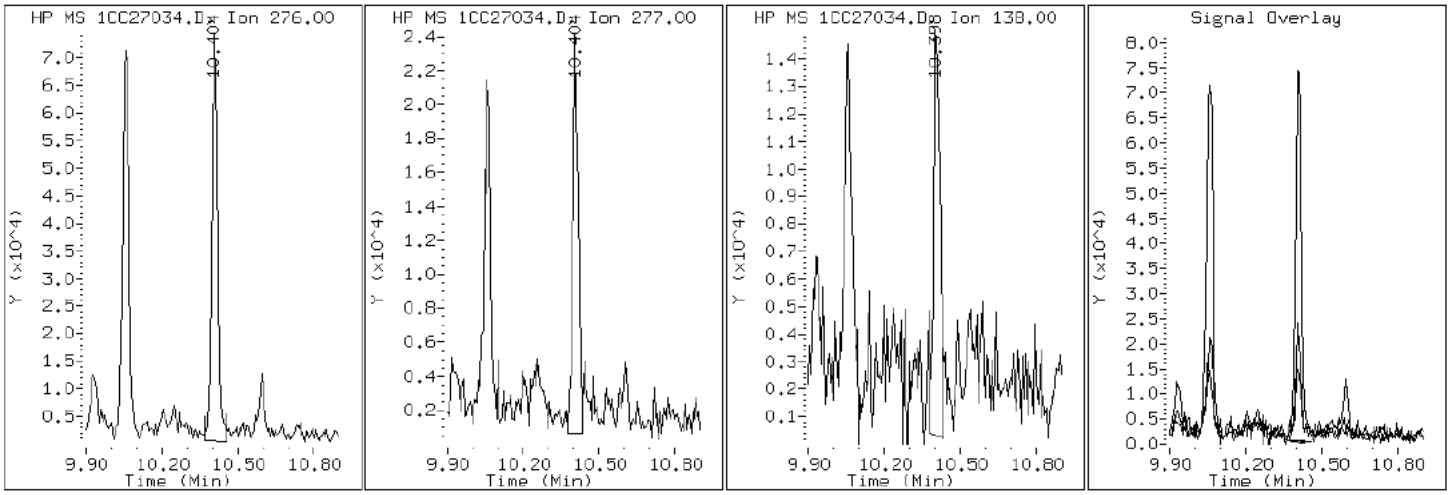
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

26 Benzo(g,h,i)perylene



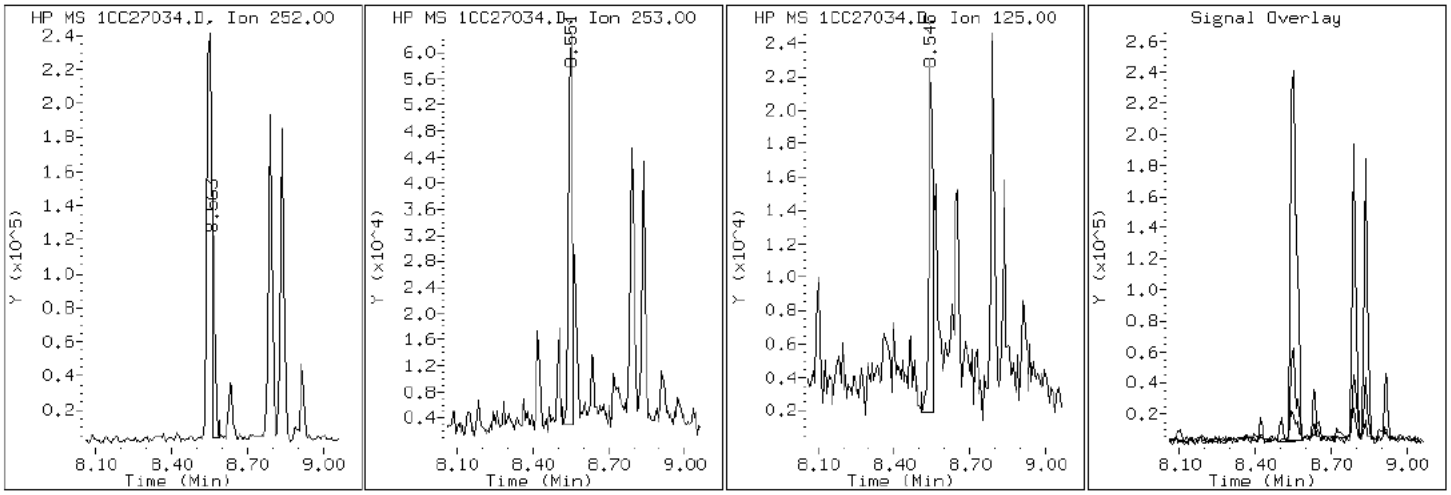
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

21 Benzo(k)fluoranthene



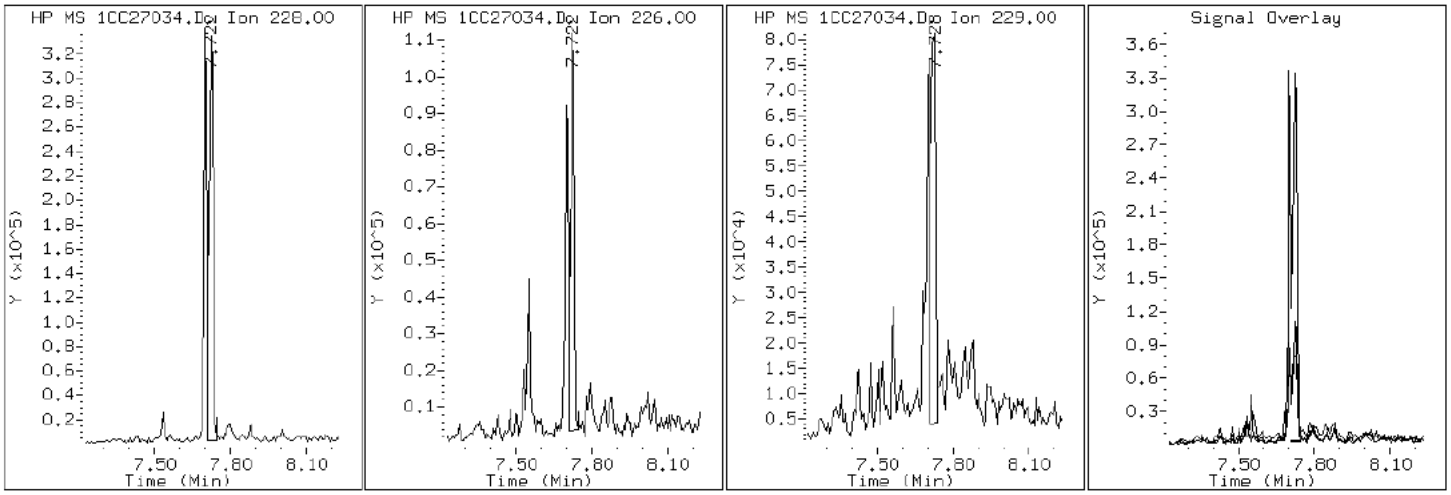
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

19 Chrysene



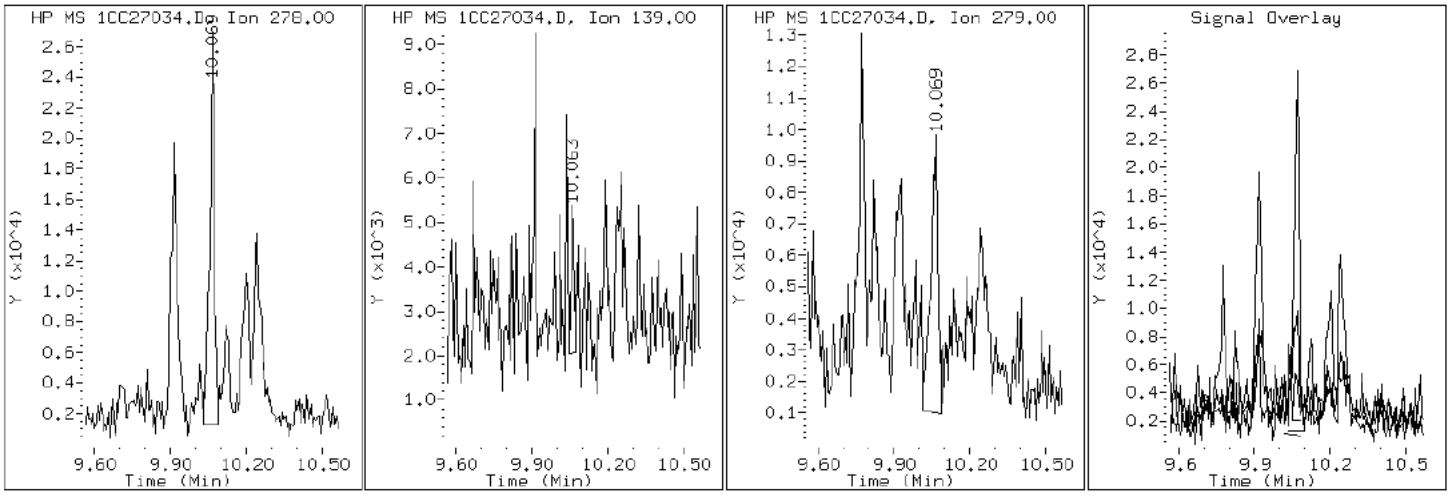
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

25 Dibenzo(a,h)anthracene



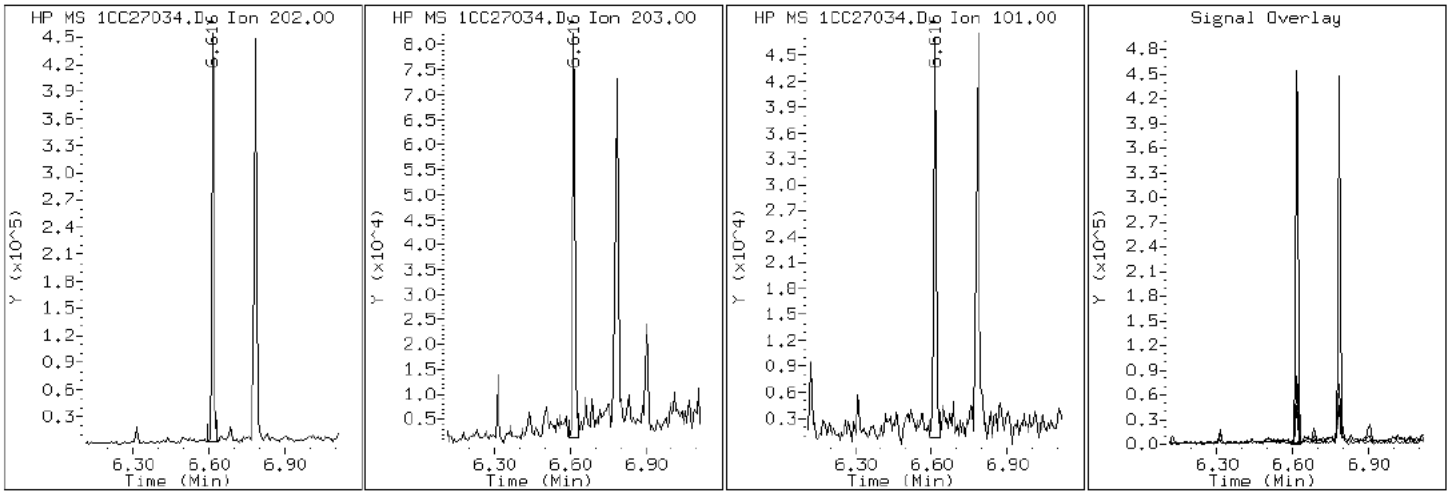
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

15 Fluoranthene



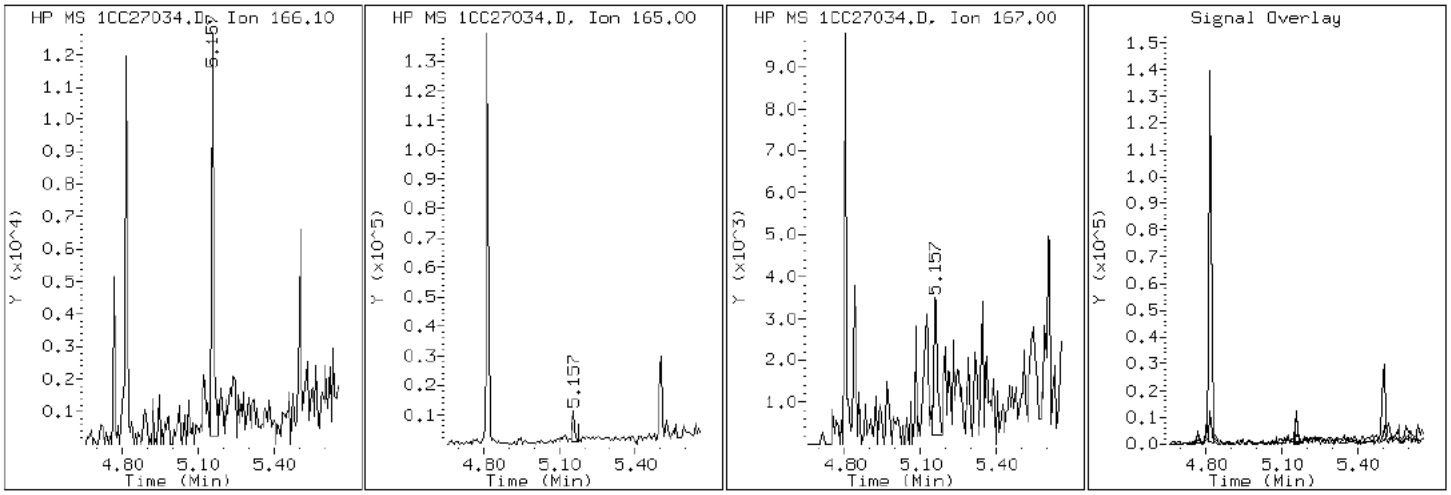
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

9 Fluorene



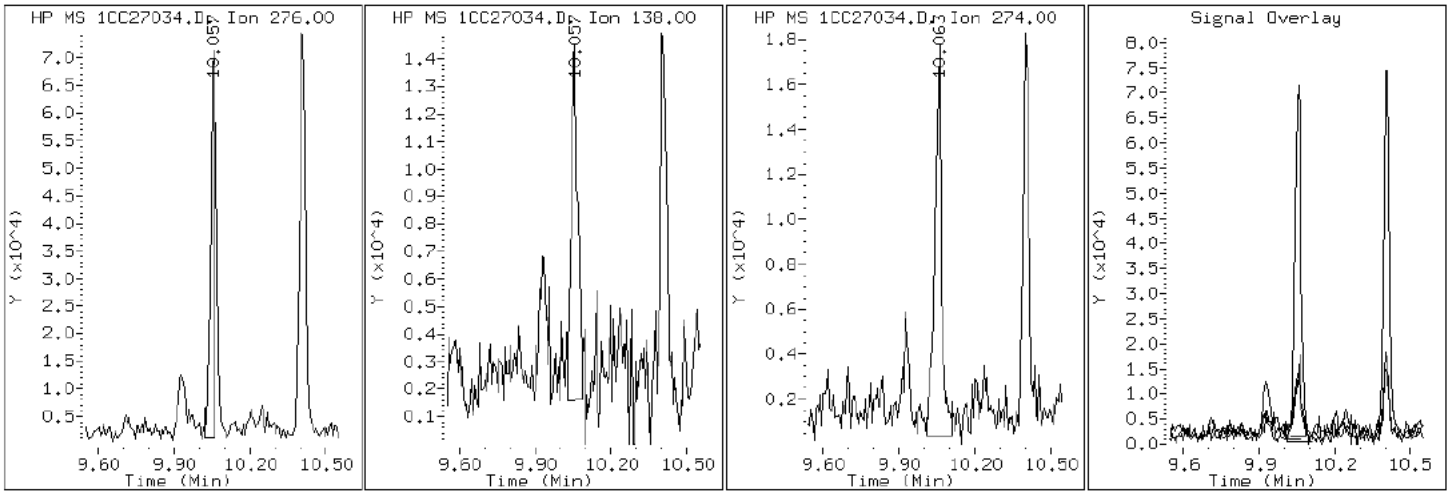
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

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



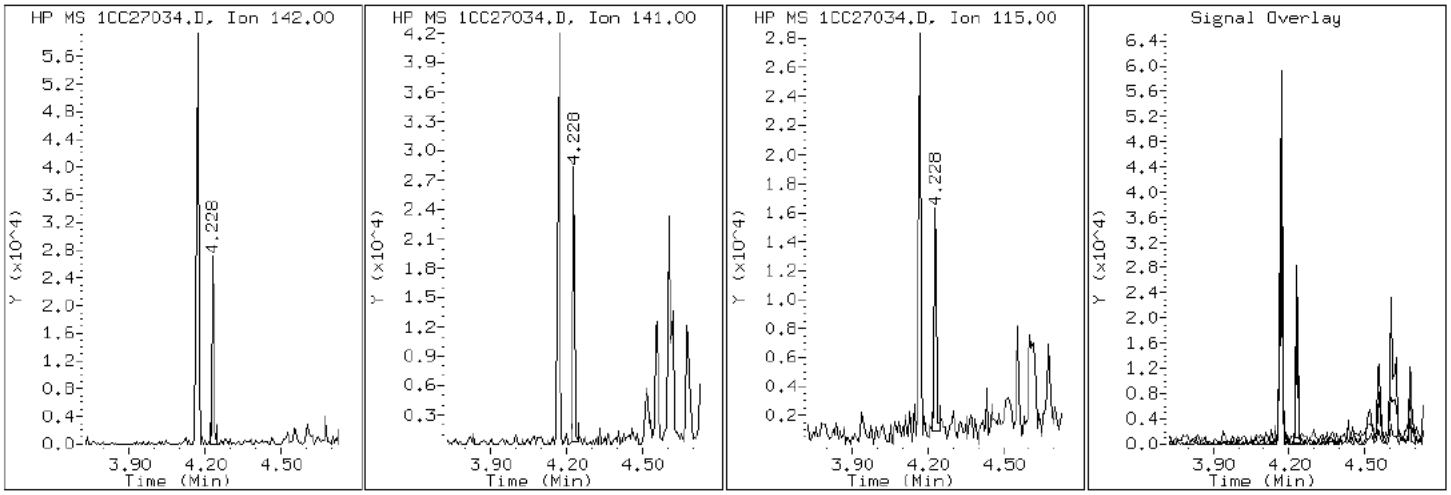
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

4 1-Methylnaphthalene



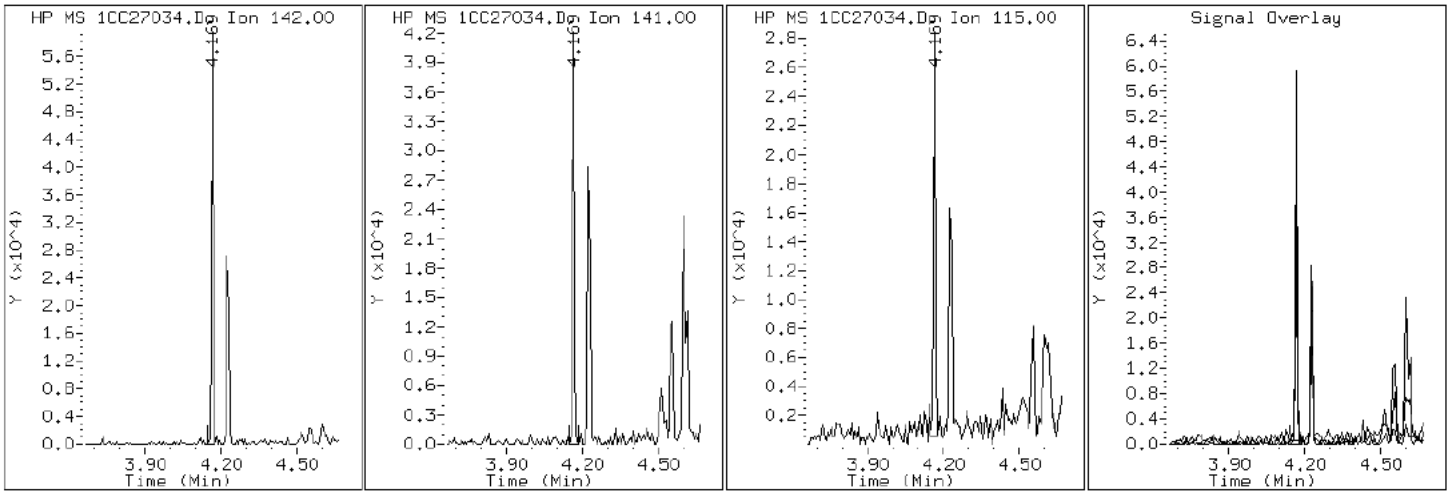
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

3 2-Methylnaphthalene



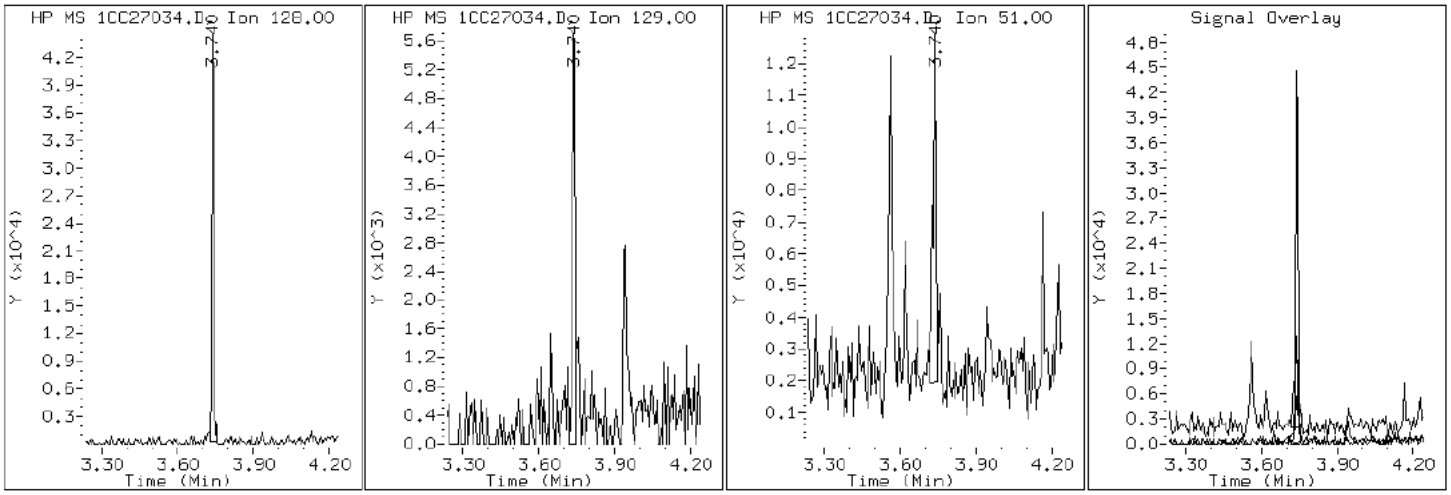
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

2 Naphthalene



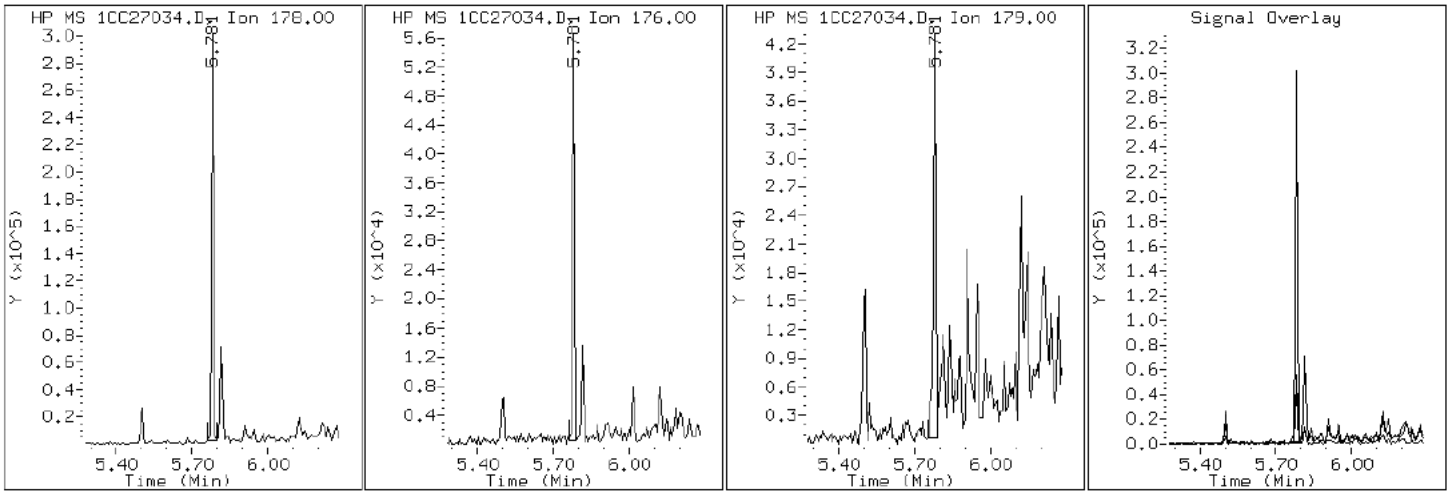
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

11 Phenanthrene



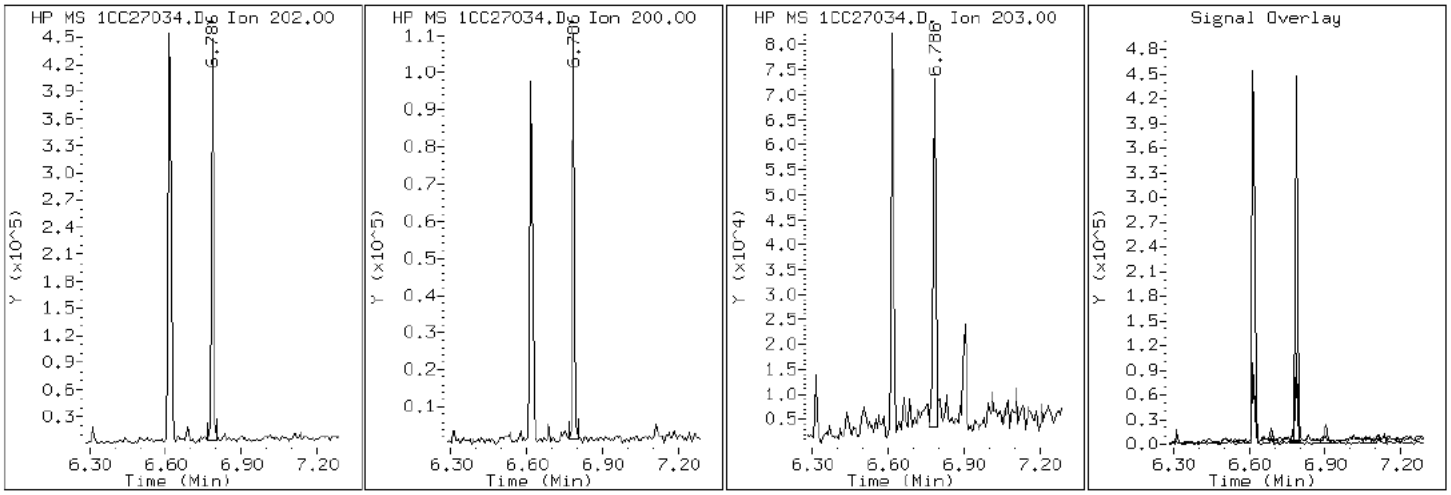
Data File: 1CC27034.D

Date: 27-MAR-2013 20:16

Client ID: CV1037B-CS Instrument: BSMC5973.i

Sample Info: 680-88420-a-22-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC27034.D
Inj. Date and Time: 27-MAR-2013 20:16
Instrument ID: BSMC5973.i
Client ID: CV1037B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/28/2013

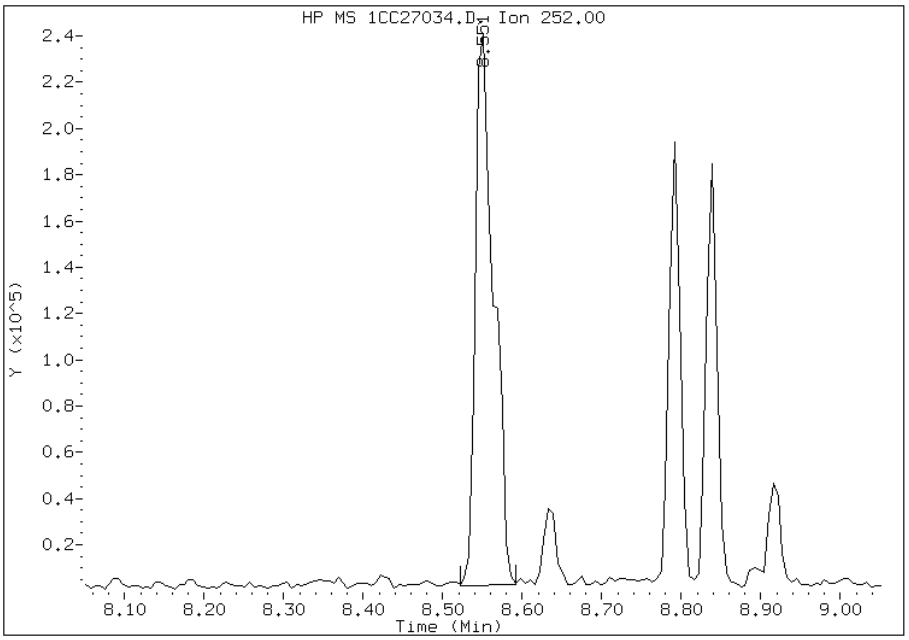
Processing Integration Results

RT: 8.55

Response: 378013

Amount: 13

Conc: 989



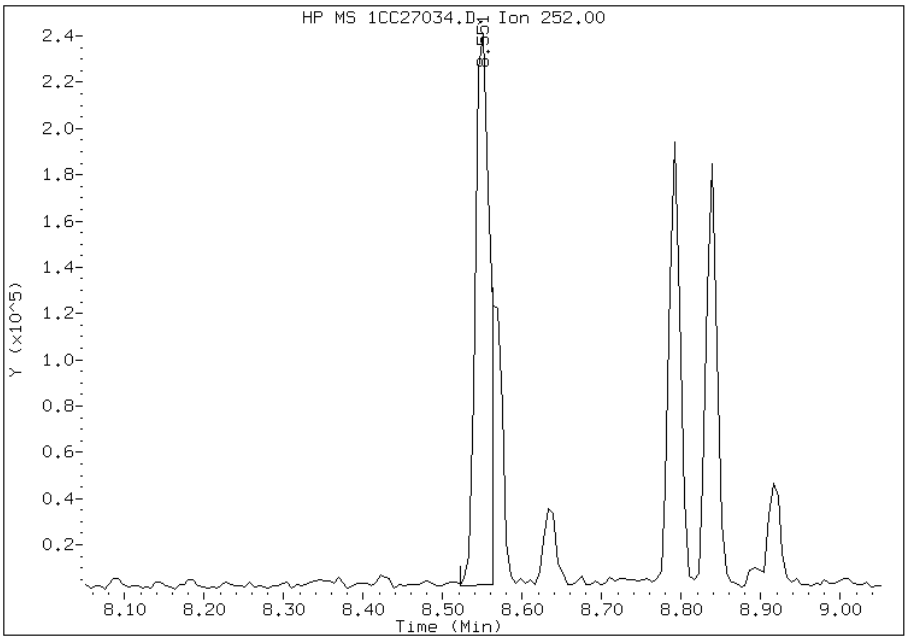
Manual Integration Results

RT: 8.55

Response: 300739

Amount: 10

Conc: 787



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC27034.D
Inj. Date and Time: 27-MAR-2013 20:16
Instrument ID: BSMC5973.i
Client ID: CV1037B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/28/2013

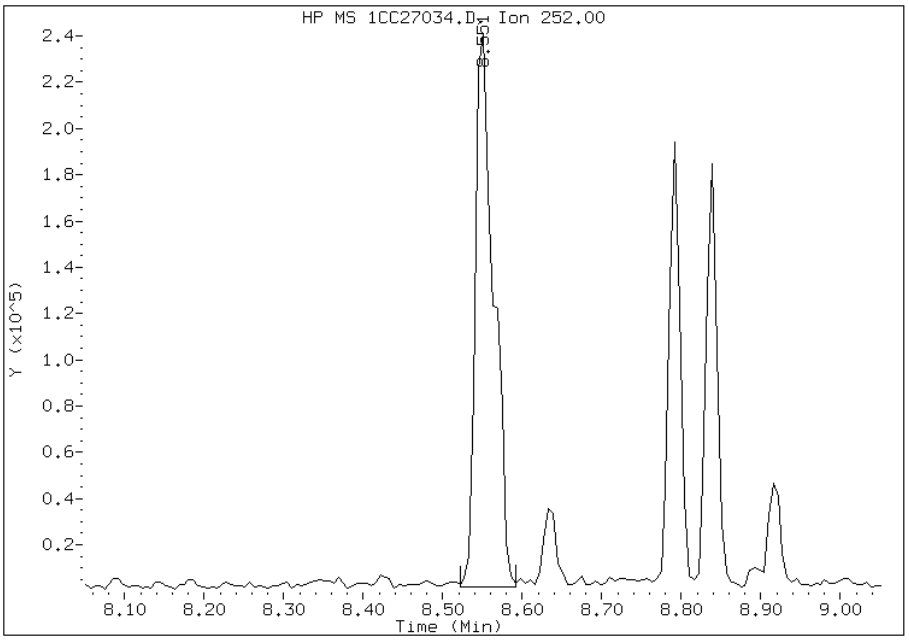
Processing Integration Results

RT: 8.55

Response: 381456

Amount: 13

Conc: 973



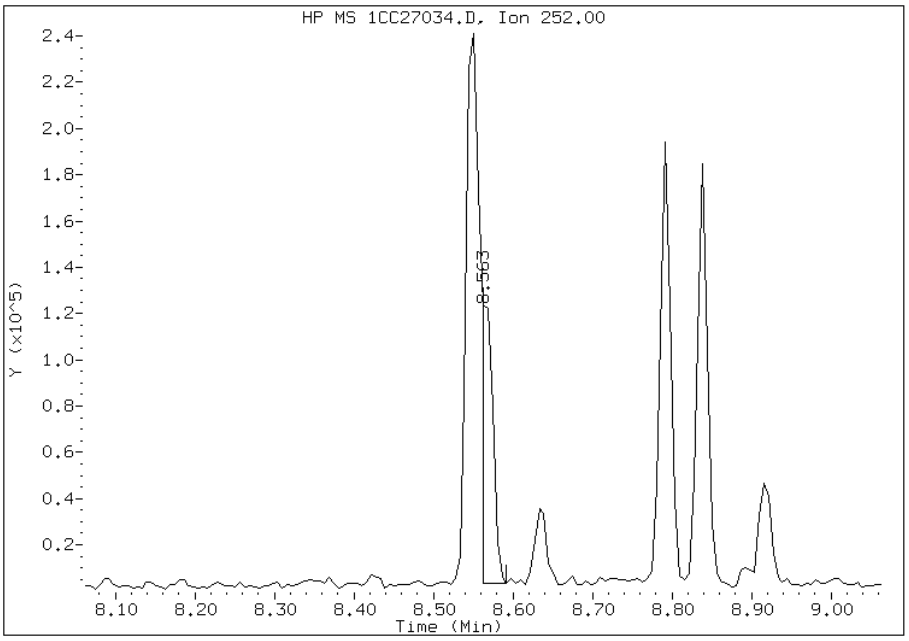
Manual Integration Results

RT: 8.56

Response: 118452

Amount: 4

Conc: 302



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC27034.D
Inj. Date and Time: 27-MAR-2013 20:16
Instrument ID: BSMC5973.i
Client ID: CV1037B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

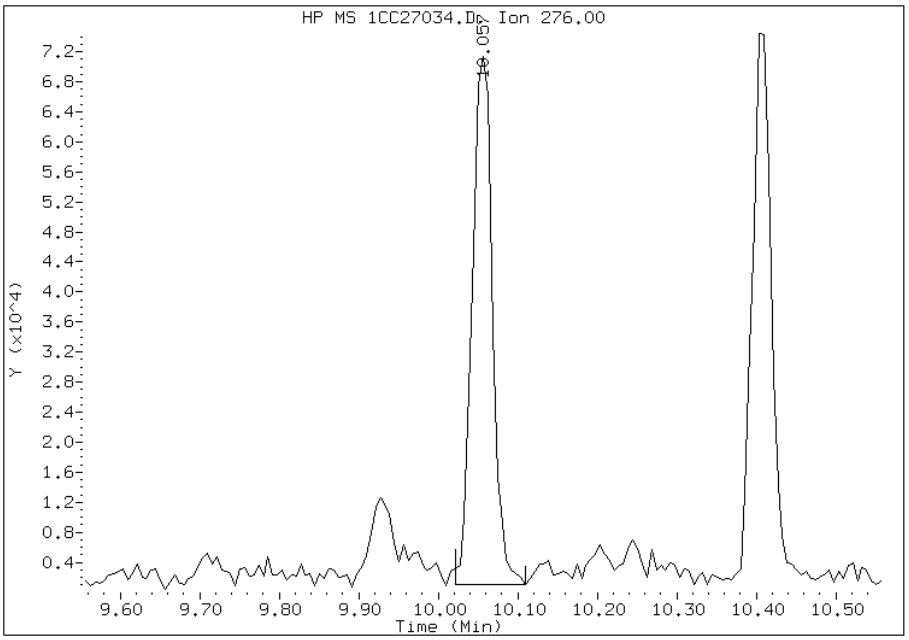
Processing Integration Results

RT: 10.06

Response: 123545

Amount: 5

Conc: 354



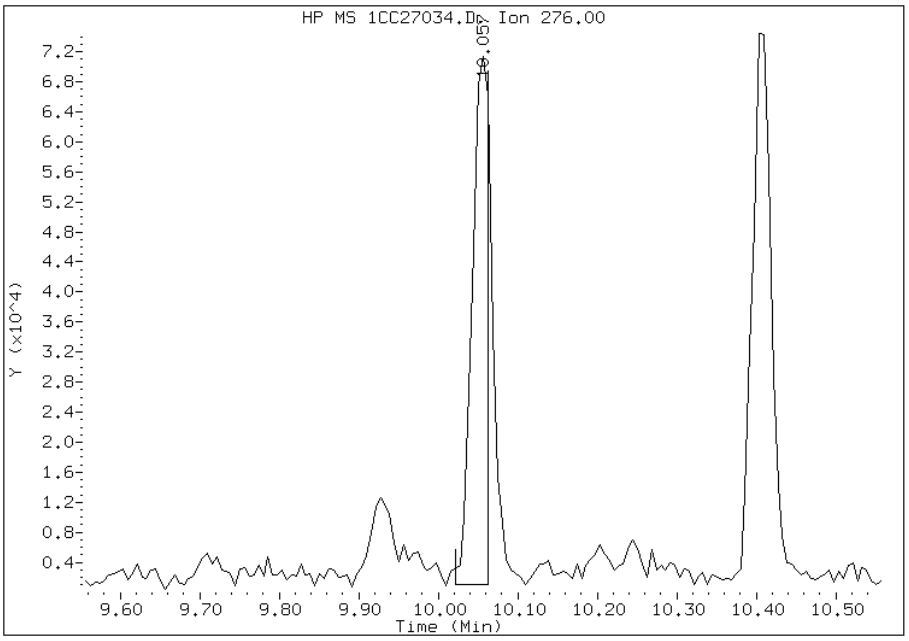
Manual Integration Results

RT: 10.06

Response: 100989

Amount: 4

Conc: 289



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0353A-CS-SP | Lab Sample ID: 680-88420-23

Matrix: Solid | Lab File ID: 1AC26018.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 12:38

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 15.18(g) | Date Analyzed: 03/26/2013 17:08

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

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

% Moisture: 23.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135850 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	50	J	130	26
208-96-8	Acenaphthylene	43	J	52	6.5
120-12-7	Anthracene	54		11	5.4
56-55-3	Benzo[a]anthracene	230		10	5.0
50-32-8	Benzo[a]pyrene	140		13	6.7
205-99-2	Benzo[b]fluoranthene	310		16	7.9
191-24-2	Benzo[g,h,i]perylene	140		26	5.7
207-08-9	Benzo[k]fluoranthene	82		10	4.6
218-01-9	Chrysene	230		12	5.8
53-70-3	Dibenz(a,h)anthracene	56		26	5.3
206-44-0	Fluoranthene	240		26	5.2
86-73-7	Fluorene	26	U	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	87		26	9.2
90-12-0	1-Methylnaphthalene	90		52	5.7
91-57-6	2-Methylnaphthalene	180		52	9.2
91-20-3	Naphthalene	93		52	5.7
85-01-8	Phenanthrene	210		10	5.0
129-00-0	Pyrene	320		26	4.8

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\1A032613.b\1AC26018.D
Lab Smp Id: 680-88420-A-23-A Client Smp ID: CV0353A-CS-SP
Inj Date : 26-MAR-2013 17:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88420-A-23-A
Misc Info : 680-88420-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.180	Weight Extracted
M	23.400	% 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	2.274	2.272	(1.000)	384876	40.0000	
* 6 Acenaphthene-d10	164	3.294	3.287	(1.000)	293884	40.0000	
* 10 Phenanthrene-d10	188	4.213	4.205	(1.000)	447652	40.0000	
$ 14 o-Terphenyl	230	4.485	4.478	(1.065)	39525	6.75438	580.8780
* 18 Chrysene-d12	240	6.206	6.193	(1.000)	292924	40.0000	
* 23 Perylene-d12	264	7.301	7.272	(1.000)	358698	40.0000	
2 Naphthalene	128	2.285	2.282	(1.005)	9576	1.07693	92.6163
3 2-Methylnaphthalene	141	2.685	2.683	(1.181)	6507	2.07375	178.3427
4 1-Methylnaphthalene	142	2.744	2.736	(1.207)	5352	1.04673	90.0193
5 Acenaphthylene	152	3.209	3.201	(0.974)	3480	0.49851	42.8717
7 Acenaphthene	154	3.310	3.308	(1.005)	973	0.57826	49.7305
11 Phenanthrene	178	4.224	4.221	(1.003)	27866	2.45610	211.2253
12 Anthracene	178	4.261	4.253	(1.011)	6875	0.62494	53.7450
13 Carbazole	167	4.421	4.408	(1.049)	3392	0.35179	30.2538

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.073	5.065	(1.204)	30825	2.74853	236.3745
16 Pyrene	202	5.239	5.226	(0.844)	31073	3.69969	318.1742
17 Benzo(a)anthracene	228	6.200	6.177	(0.999)	21689	2.72170	234.0669
19 Chrysene	228	6.222	6.209	(1.003)	20276	2.67252	229.8374
20 Benzo(b)fluoranthene	252	7.018	6.994	(0.961)	24032	3.63412	312.5349(M)
21 Benzo(k)fluoranthene	252	7.028	7.015	(0.963)	9173	0.94806	81.5331(QM)
22 Benzo(a)pyrene	252	7.247	7.224	(0.993)	13369	1.58816	136.5822
24 Indeno(1,2,3-cd)pyrene	276	8.001	7.972	(1.096)	7686	1.01191	87.0247(M)
25 Dibenzo(a,h)anthracene	278	8.011	7.982	(1.097)	4861	0.64573	55.5332
26 Benzo(g,h,i)perylene	276	8.188	8.148	(1.121)	12725	1.66434	143.1339

QC Flag Legend

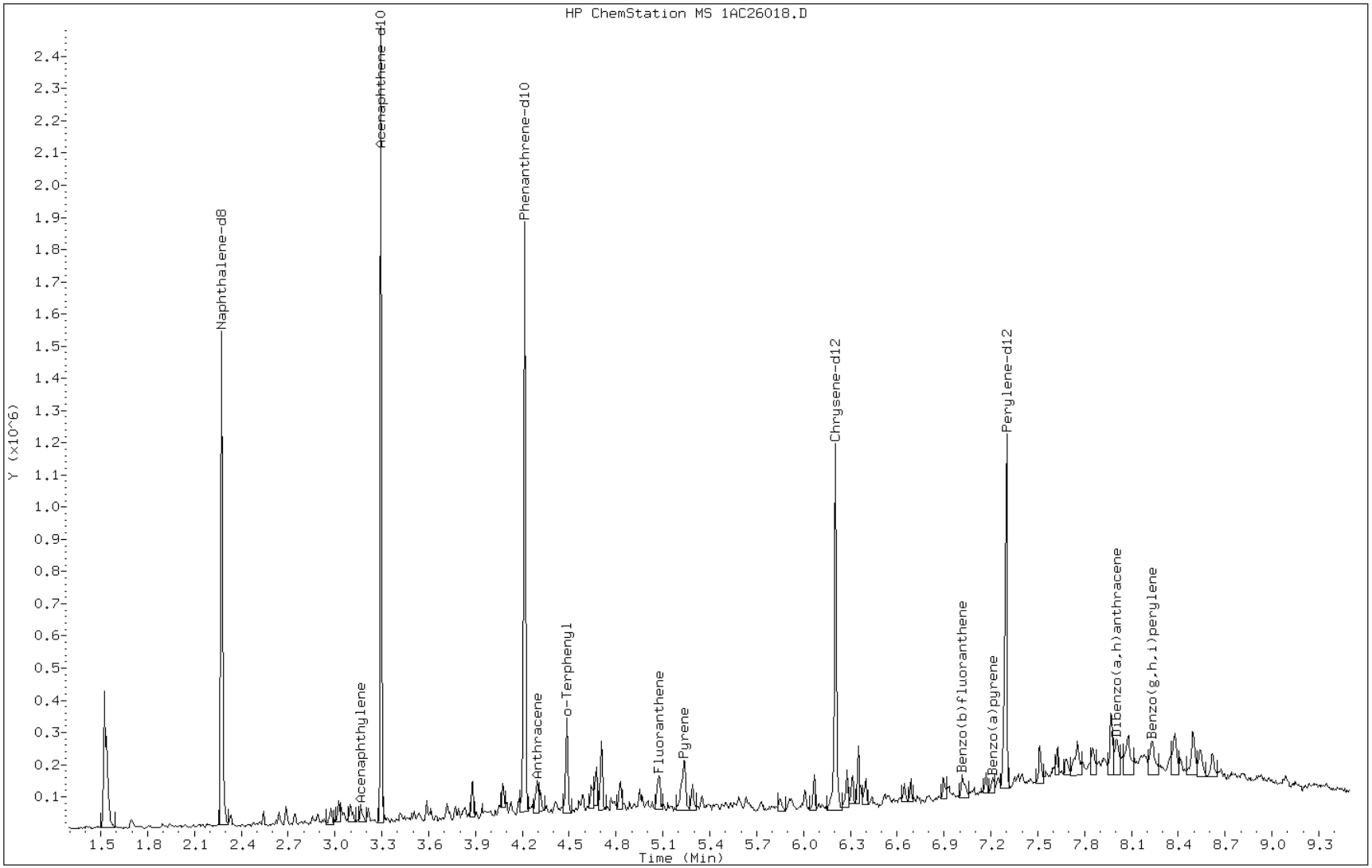
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC



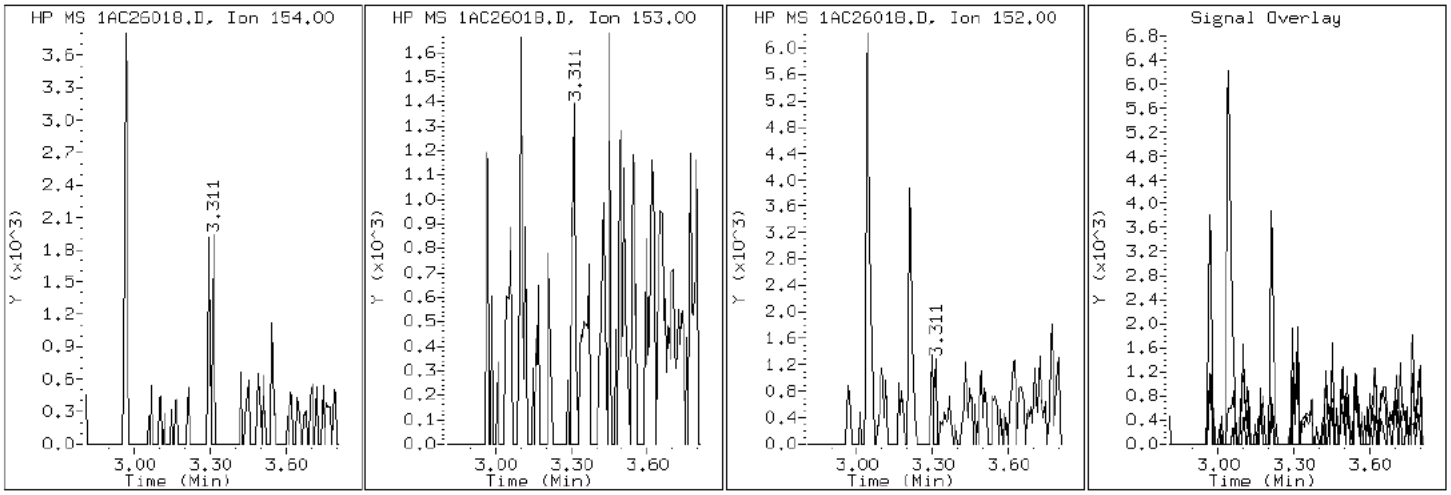
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

7 Acenaphthene



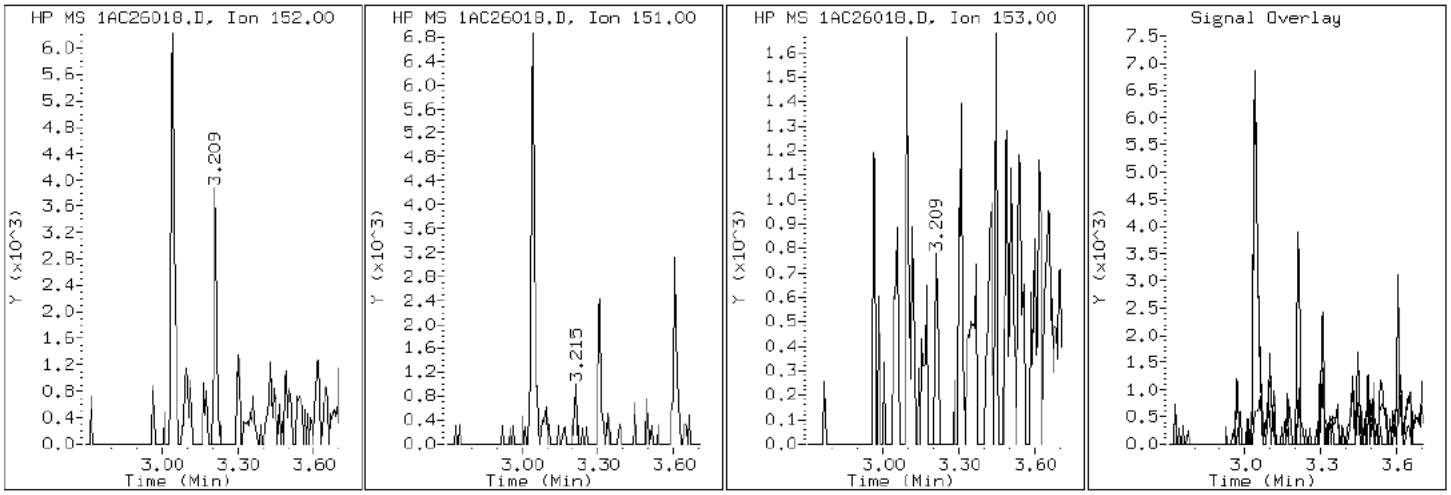
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

5 Acenaphthylene



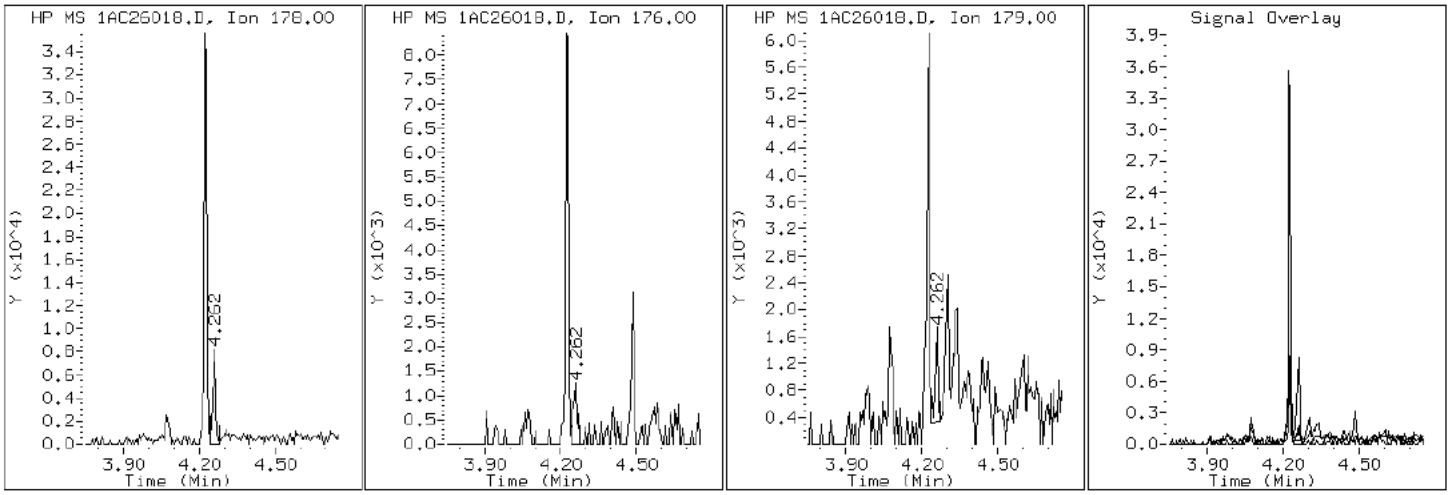
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

12 Anthracene



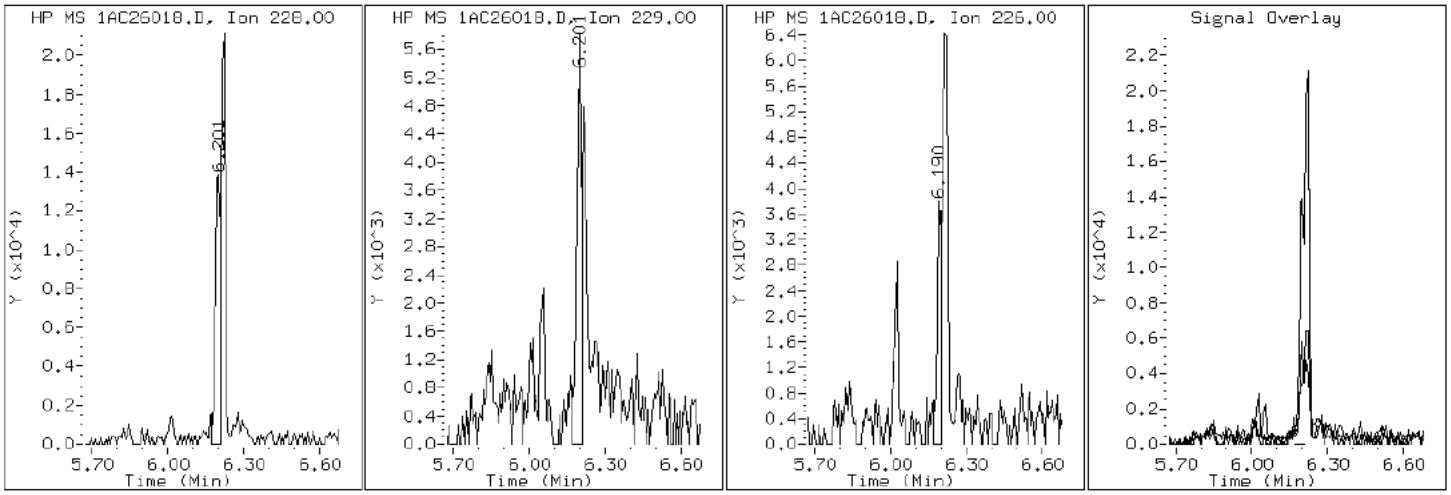
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

17 Benzo(a)anthracene



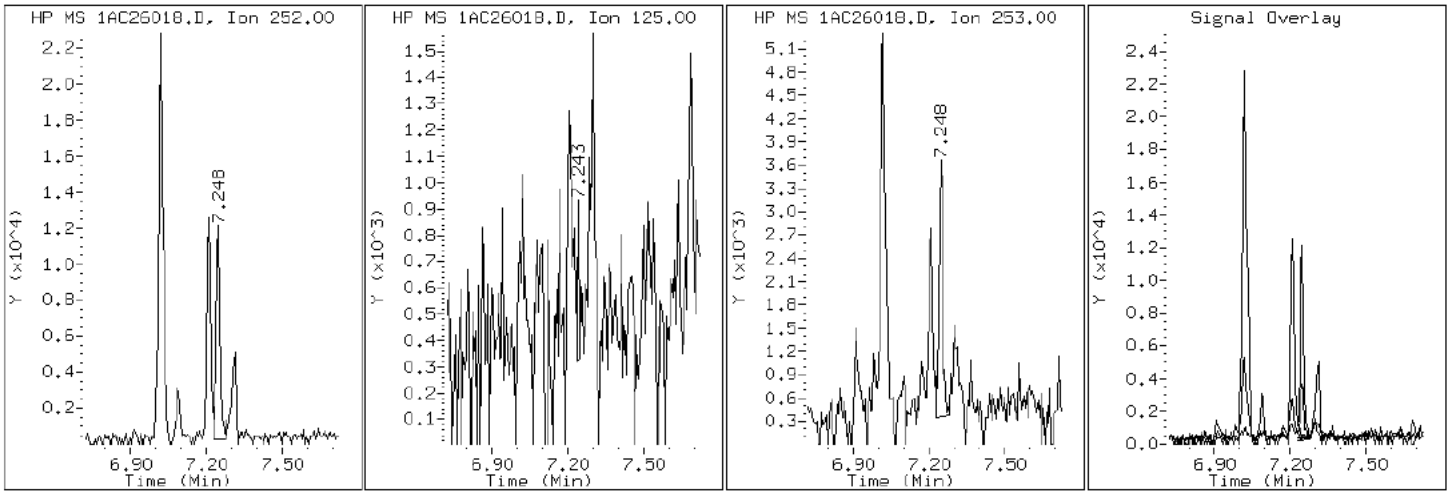
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

22 Benzo(a)pyrene



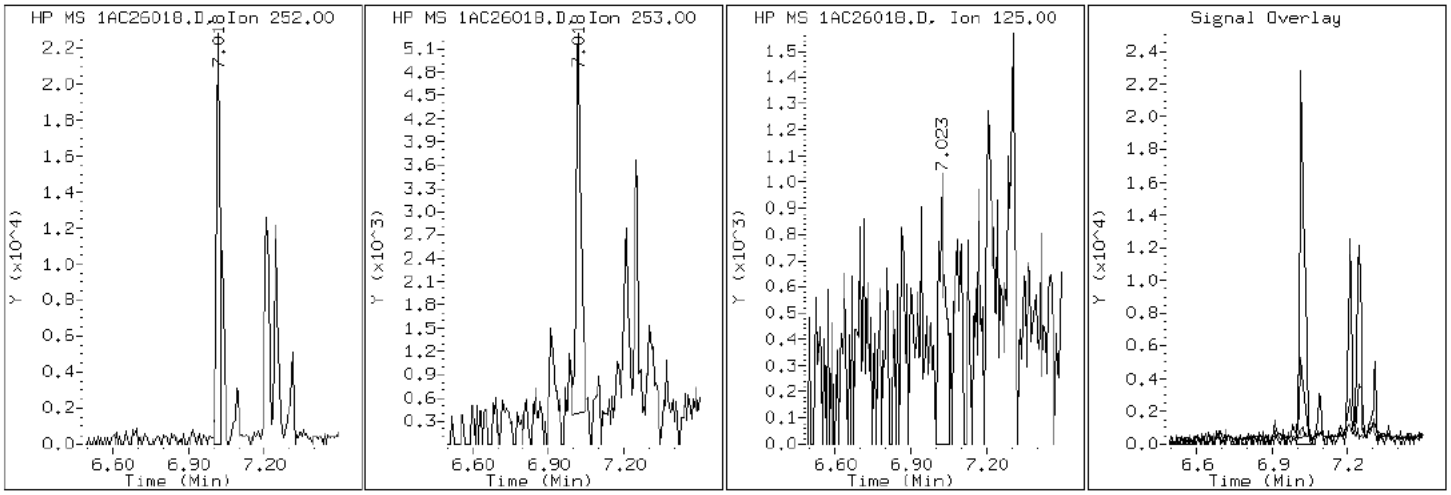
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

20 Benzo(b)fluoranthene



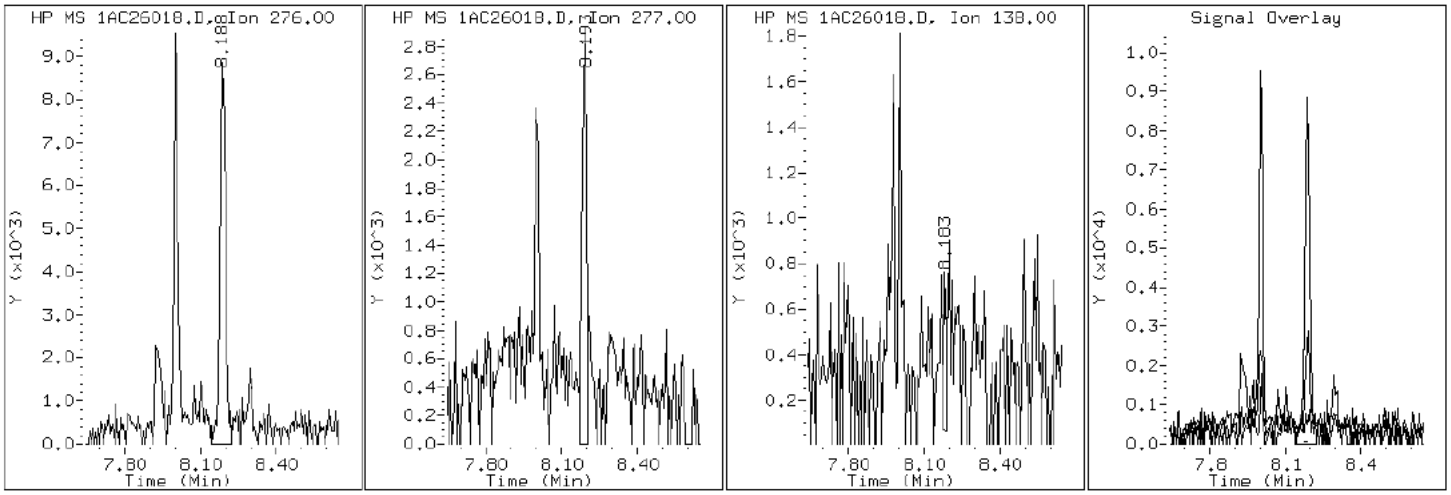
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

26 Benzo(g,h,i)perylene



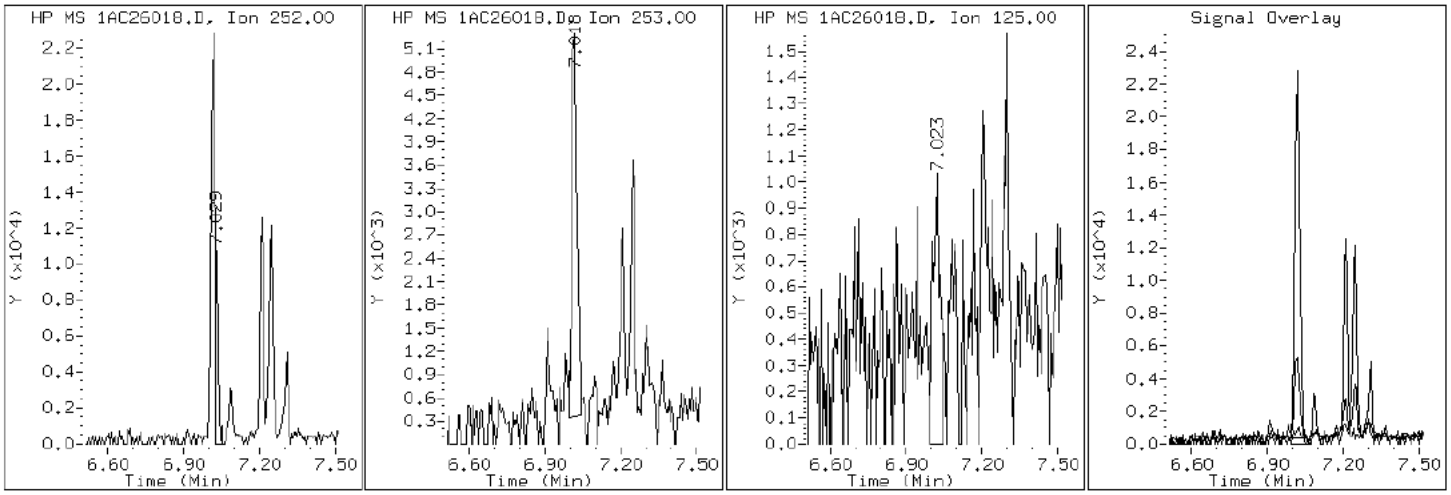
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

21 Benzo(k)fluoranthene



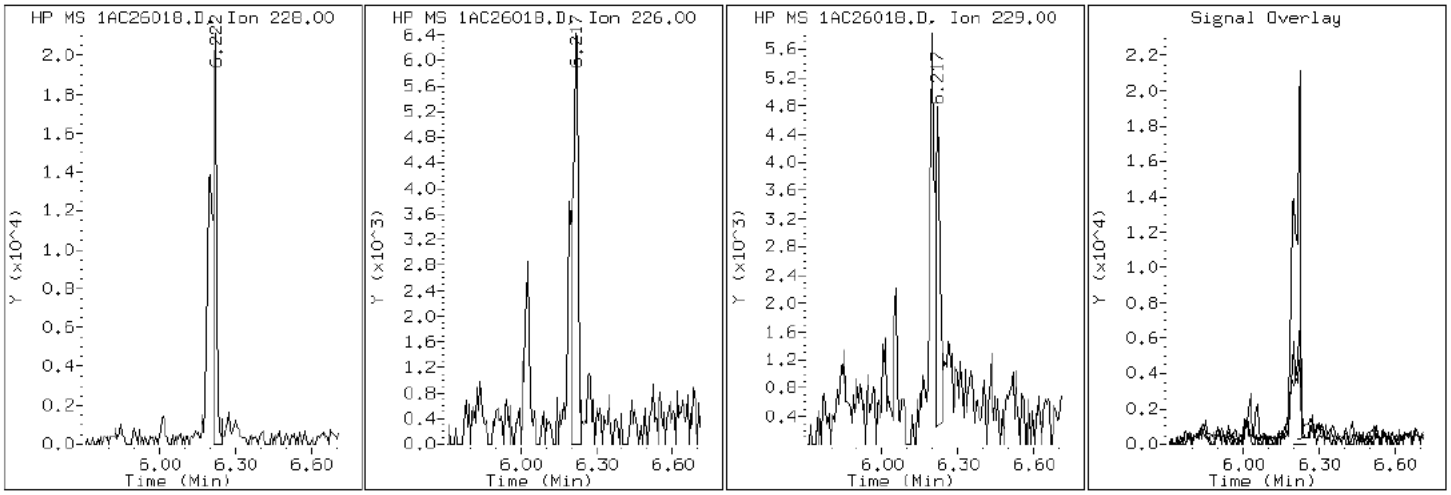
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

19 Chrysene



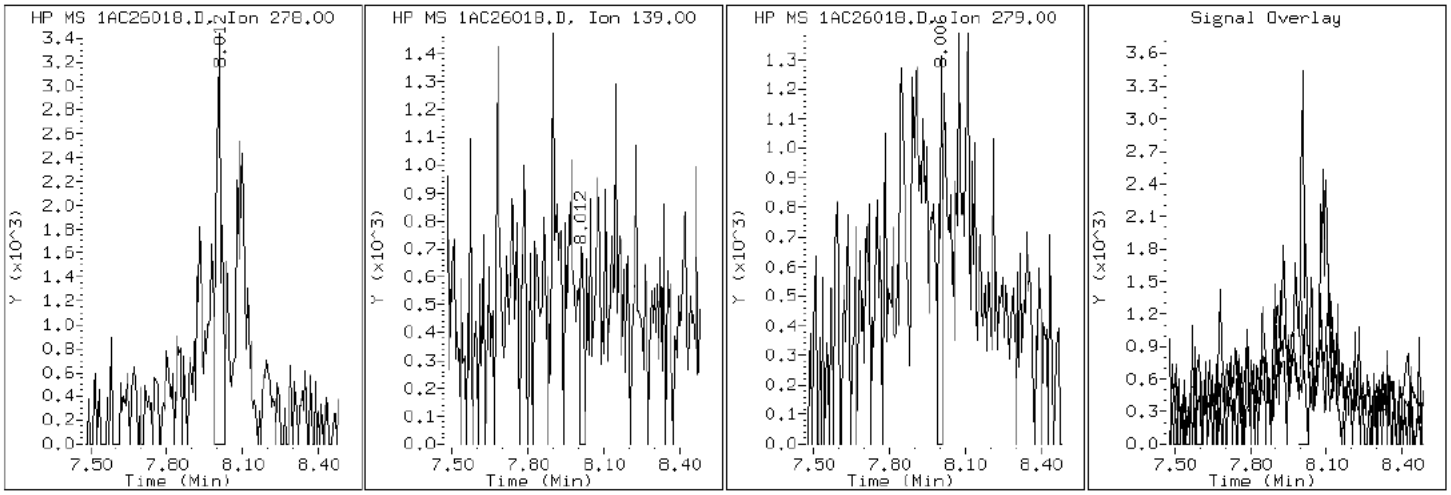
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

25 Dibenzo(a,h)anthracene



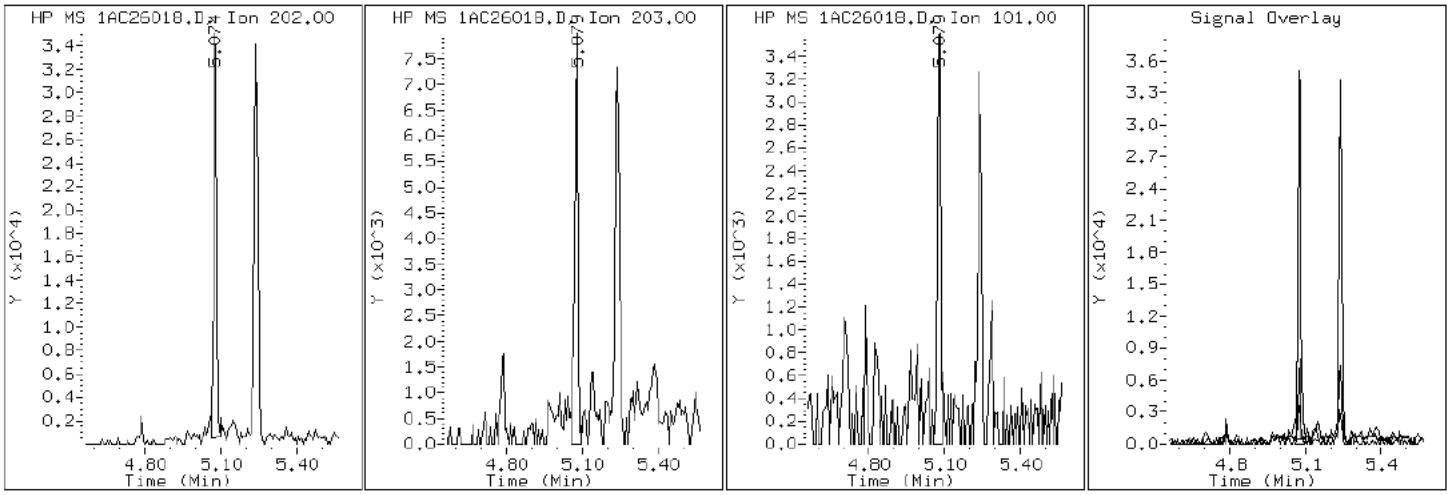
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

15 Fluoranthene



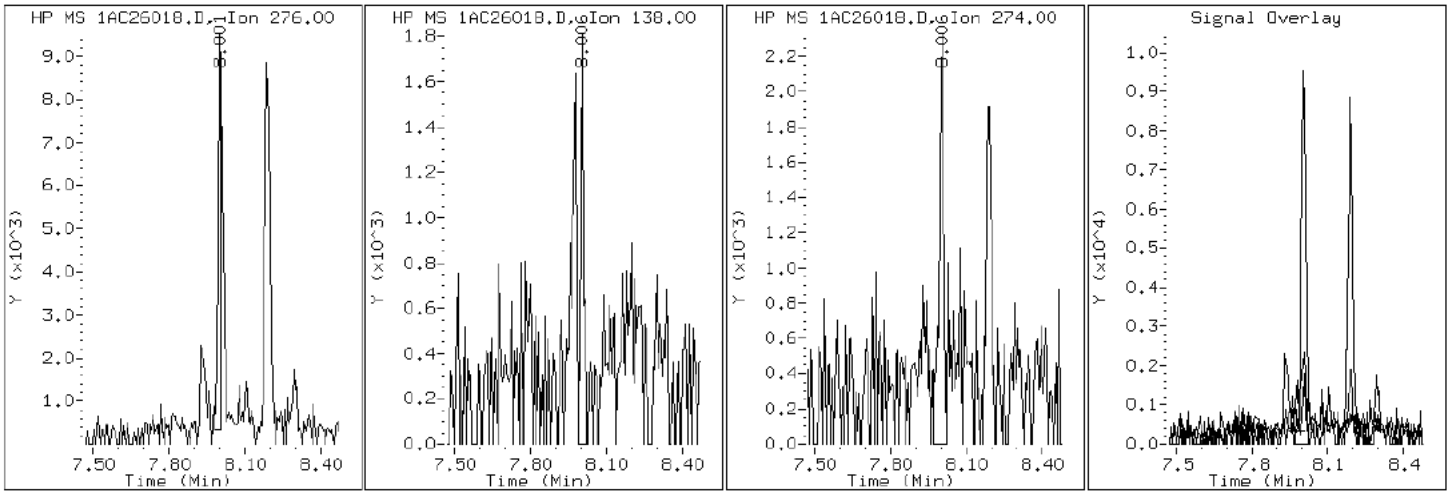
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

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



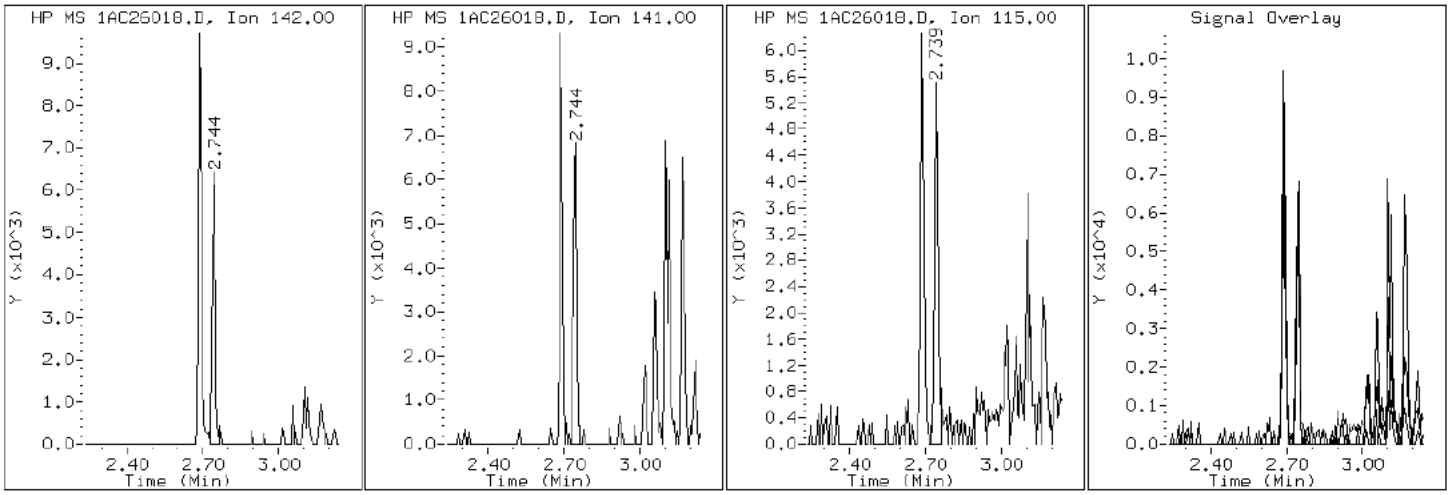
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

4 1-Methylnaphthalene



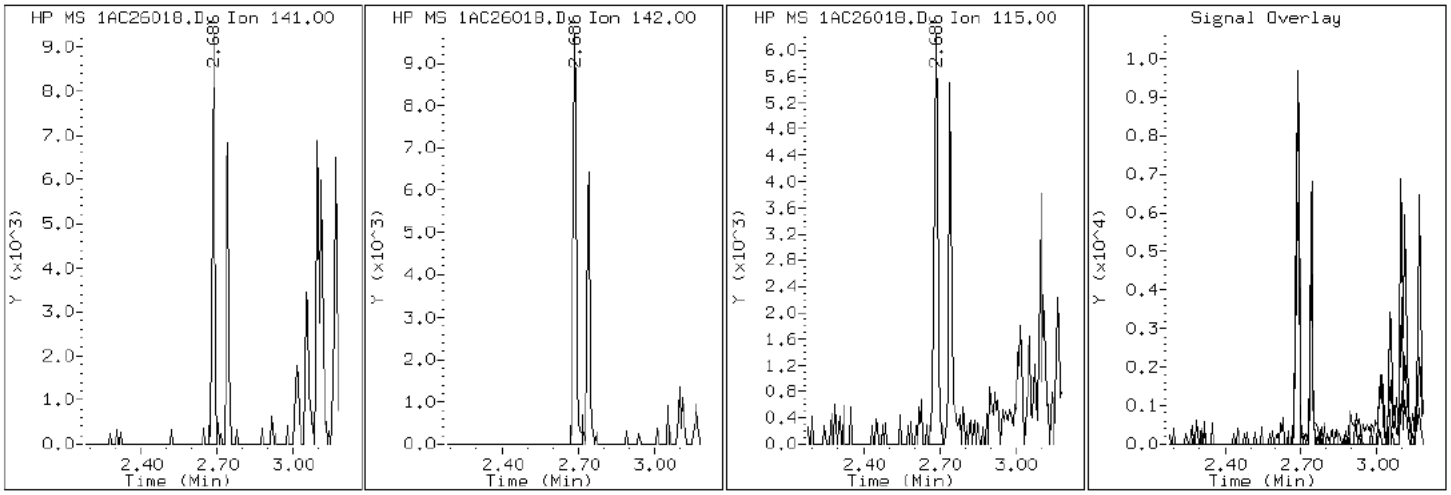
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

3 2-Methylnaphthalene



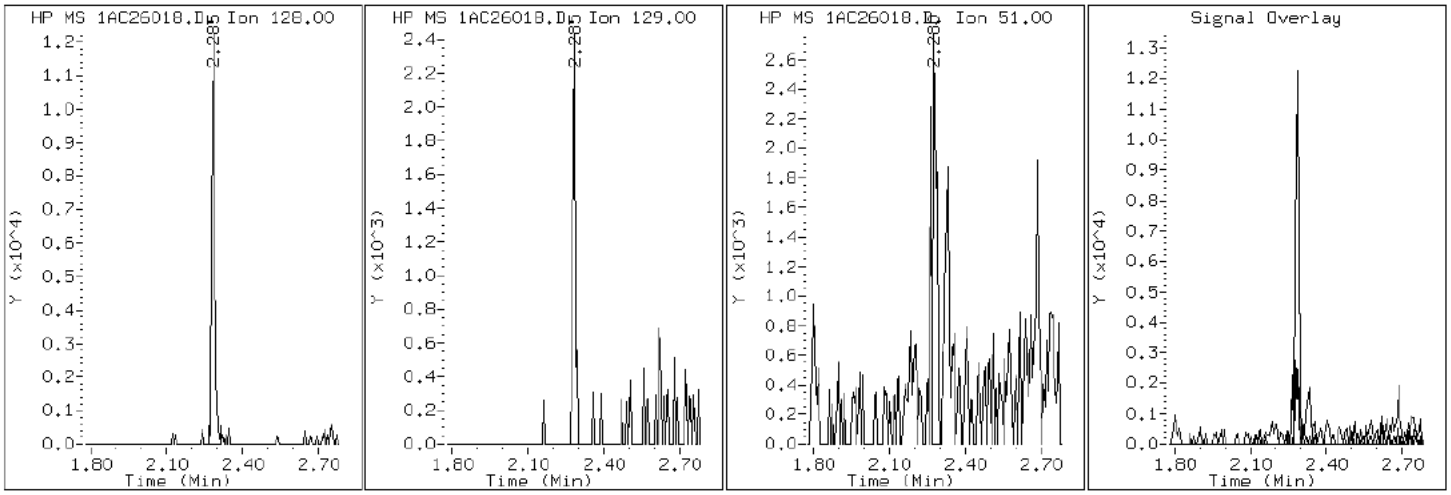
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

2 Naphthalene



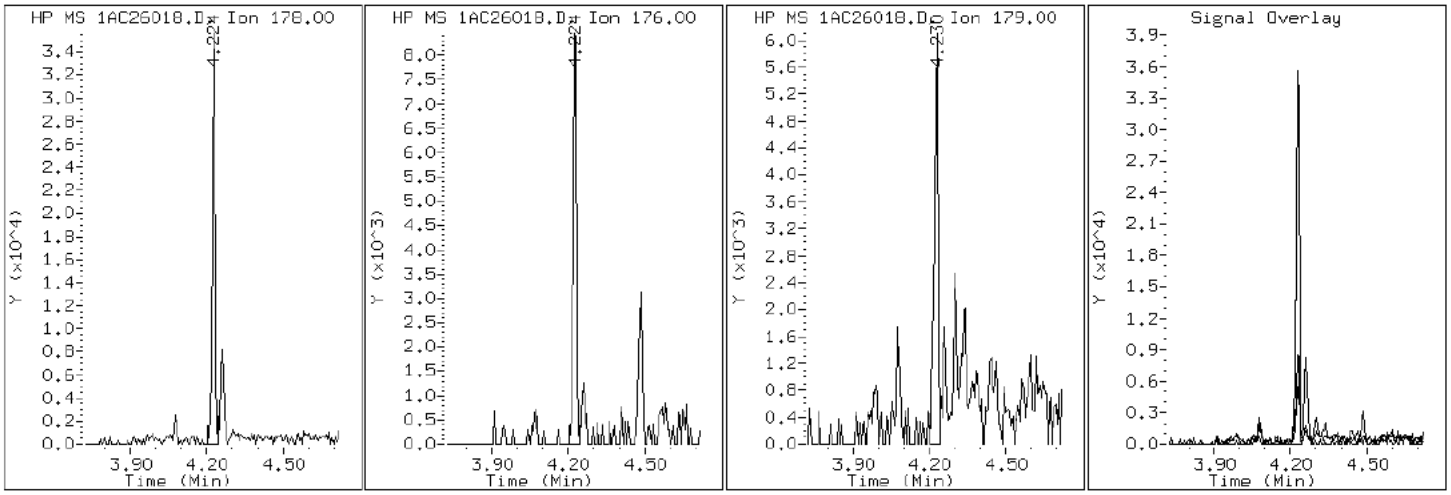
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

11 Phenanthrene



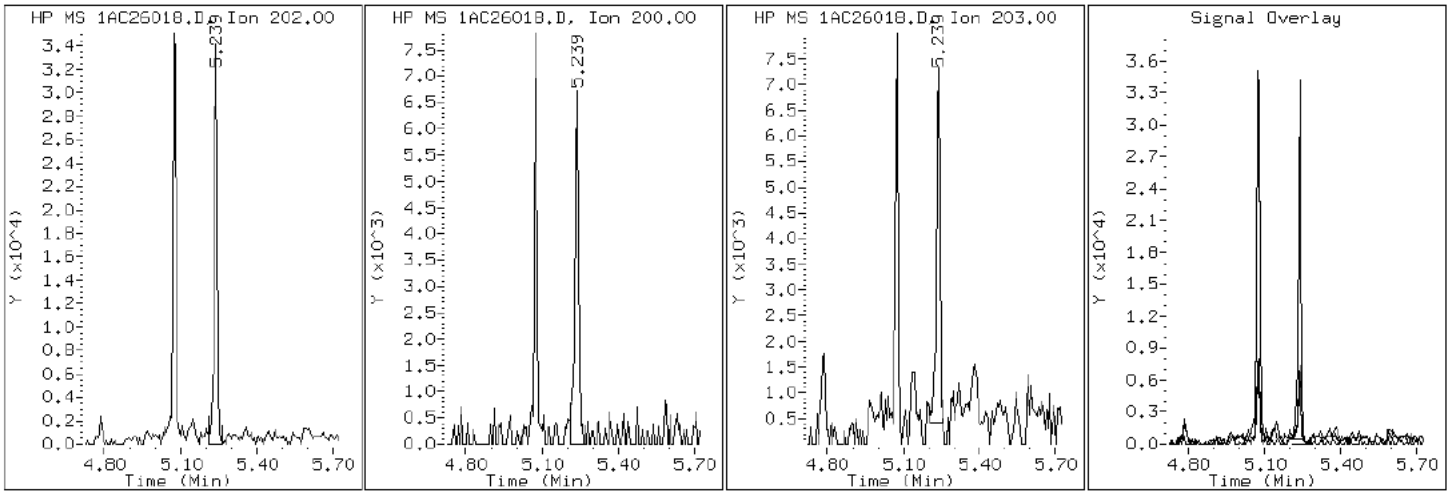
Data File: 1AC26018.D

Date: 26-MAR-2013 17:08

Client ID: CV0353A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-23-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AC26018.D
Inj. Date and Time: 26-MAR-2013 17:08
Instrument ID: BSMA5973.i
Client ID: CV0353A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/28/2013

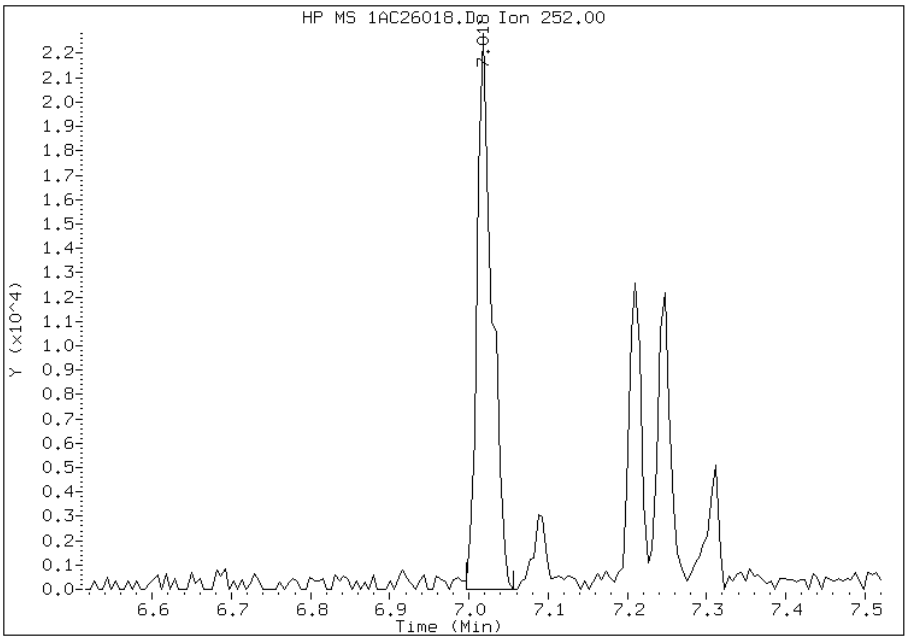
Processing Integration Results

RT: 7.02

Response: 29655

Amount: 4

Conc: 361



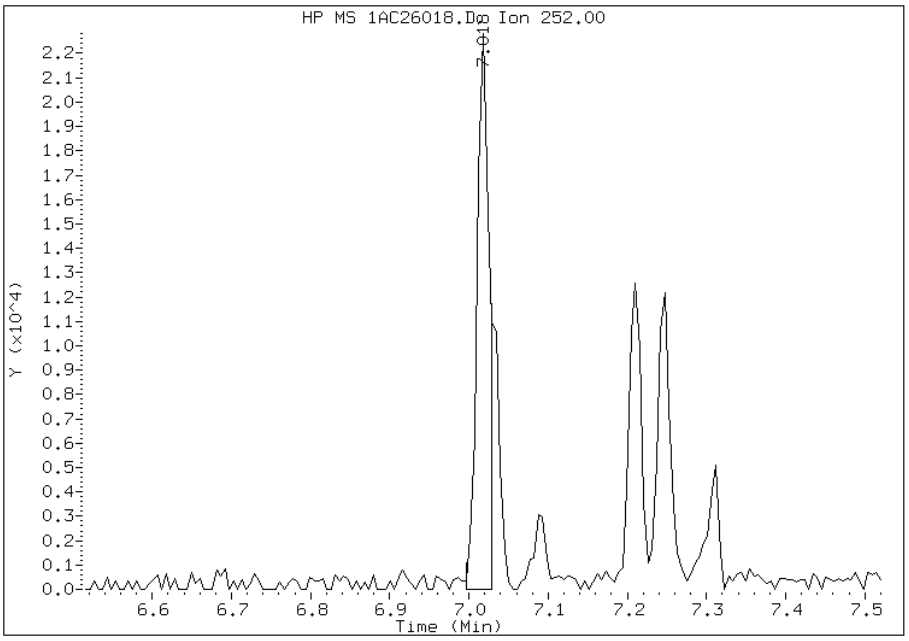
Manual Integration Results

RT: 7.02

Response: 24032

Amount: 4

Conc: 313



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:26
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC26018.D
Inj. Date and Time: 26-MAR-2013 17:08
Instrument ID: BSMA5973.i
Client ID: CV0353A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/28/2013

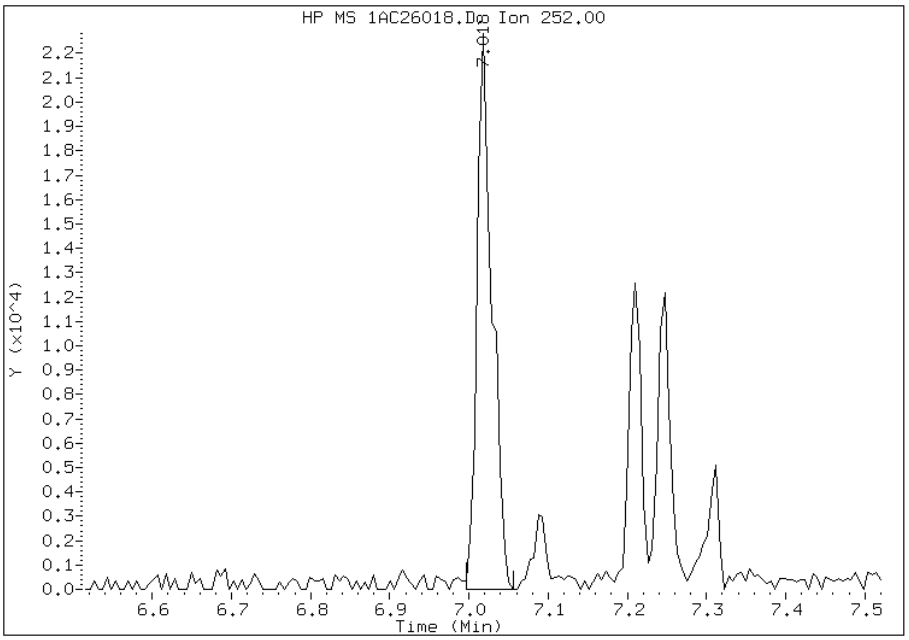
Processing Integration Results

RT: 7.02

Response: 29655

Amount: 3

Conc: 264



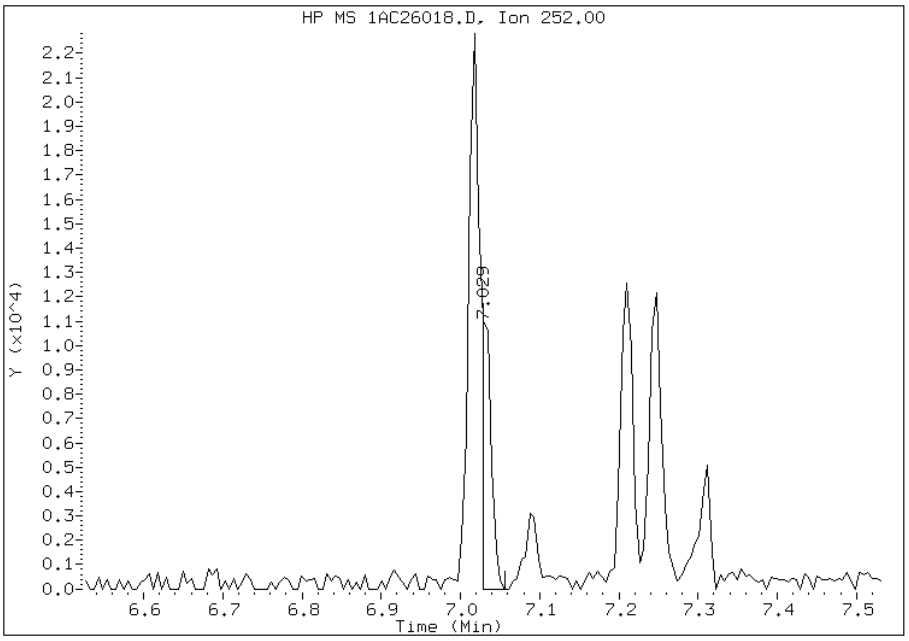
Manual Integration Results

RT: 7.03

Response: 9173

Amount: 1

Conc: 82



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC26018.D
Inj. Date and Time: 26-MAR-2013 17:08
Instrument ID: BSMA5973.i
Client ID: CV0353A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

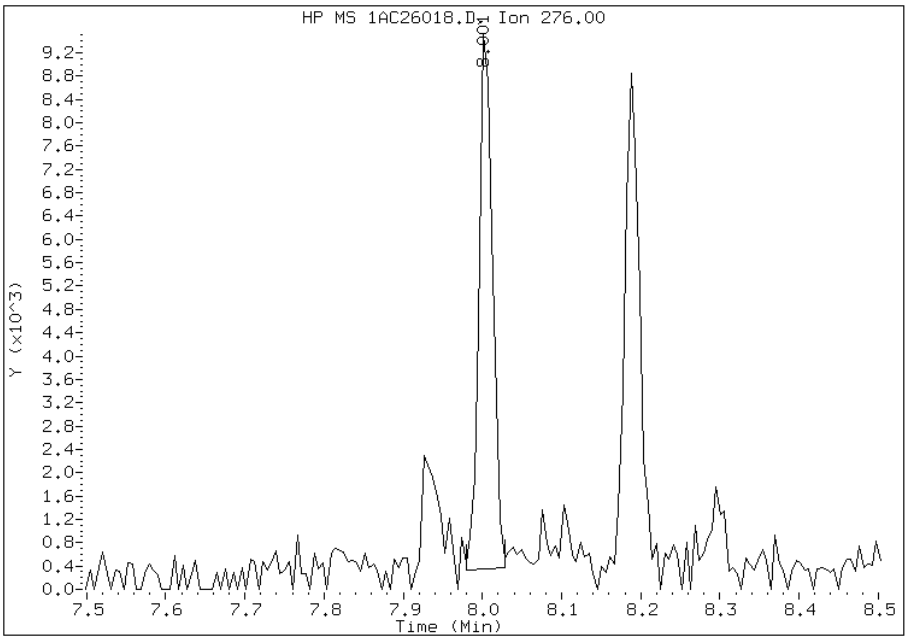
Processing Integration Results

RT: 8.00

Response: 10781

Amount: 1

Conc: 122



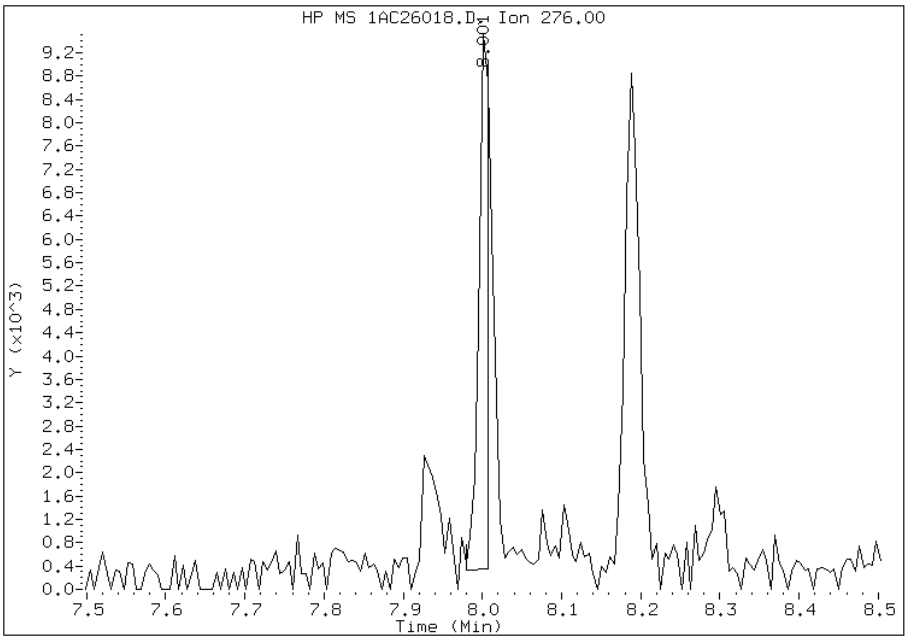
Manual Integration Results

RT: 8.00

Response: 7686

Amount: 1

Conc: 87



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0353B-CS-SP | Lab Sample ID: 680-88420-24

Matrix: Solid | Lab File ID: 1AC26019.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 12:50

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 15.12(g) | Date Analyzed: 03/26/2013 17:23

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

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

% Moisture: 24.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135850 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	36	J	53	6.6
120-12-7	Anthracene	39		11	5.5
56-55-3	Benzo[a]anthracene	160		11	5.1
50-32-8	Benzo[a]pyrene	78		14	6.8
205-99-2	Benzo[b]fluoranthene	230		16	8.0
191-24-2	Benzo[g,h,i]perylene	69		26	5.8
207-08-9	Benzo[k]fluoranthene	48		11	4.7
218-01-9	Chrysene	140		12	5.9
53-70-3	Dibenz(a,h)anthracene	32		26	5.4
206-44-0	Fluoranthene	180		26	5.3
86-73-7	Fluorene	26	U	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	67		26	9.3
90-12-0	1-Methylnaphthalene	89		53	5.8
91-57-6	2-Methylnaphthalene	180		53	9.3
91-20-3	Naphthalene	100		53	5.8
85-01-8	Phenanthrene	130		11	5.1
129-00-0	Pyrene	230		26	4.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26019.D
Lab Smp Id: 680-88420-A-24-A Client Smp ID: CV0353B-CS-SP
Inj Date : 26-MAR-2013 17:23
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88420-A-24-A
Misc Info : 680-88420-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	24.625	% 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	2.273	2.272	(1.000)	402759	40.0000	
* 6 Acenaphthene-d10	164	3.294	3.287	(1.000)	306668	40.0000	
* 10 Phenanthrene-d10	188	4.218	4.205	(1.000)	489694	40.0000	
$ 14 o-Terphenyl	230	4.485	4.478	(1.063)	43769	6.83417	599.6639
* 18 Chrysene-d12	240	6.205	6.193	(1.000)	312695	40.0000	
* 23 Perylene-d12	264	7.300	7.272	(1.000)	375968	40.0000	(H)
2 Naphthalene	128	2.284	2.282	(1.005)	10990	1.18107	103.6333
3 2-Methylnaphthalene	141	2.690	2.683	(1.183)	6875	2.08525	182.9702
4 1-Methylnaphthalene	142	2.744	2.736	(1.207)	5431	1.01502	89.0632
5 Acenaphthylene	152	3.208	3.201	(0.974)	2618	0.40522	35.5564
11 Phenanthrene	178	4.229	4.221	(1.003)	18671	1.50437	132.0011
12 Anthracene	178	4.261	4.253	(1.010)	5289	0.43950	38.5636
13 Carbazole	167	4.421	4.408	(1.048)	1515	0.14363	12.6030
15 Fluoranthene	202	5.078	5.065	(1.204)	25279	2.06051	180.7990

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.238	5.226	(0.844)	23325	2.60159	228.2761
17 Benzo(a)anthracene	228	6.200	6.177	(0.999)	15462	1.87353	164.3932
19 Chrysene	228	6.221	6.209	(1.003)	13171	1.62627	142.6967
20 Benzo(b)fluoranthene	252	7.017	6.994	(0.961)	14470	2.59944	228.0880(MH)
21 Benzo(k)fluoranthene	252	7.028	7.015	(0.963)	5560	0.54825	48.1059(QMH)
22 Benzo(a)pyrene	252	7.242	7.224	(0.992)	7886	0.89378	78.4247(H)
24 Indeno(1,2,3-cd)pyrene	276	7.995	7.972	(1.095)	6090	0.76496	67.1213(MH)
25 Dibenzo(a,h)anthracene	278	8.006	7.982	(1.097)	2909	0.36868	32.3498(H)
26 Benzo(g,h,i)perylene	276	8.182	8.148	(1.121)	6276	0.78315	68.7177(H)

QC Flag Legend

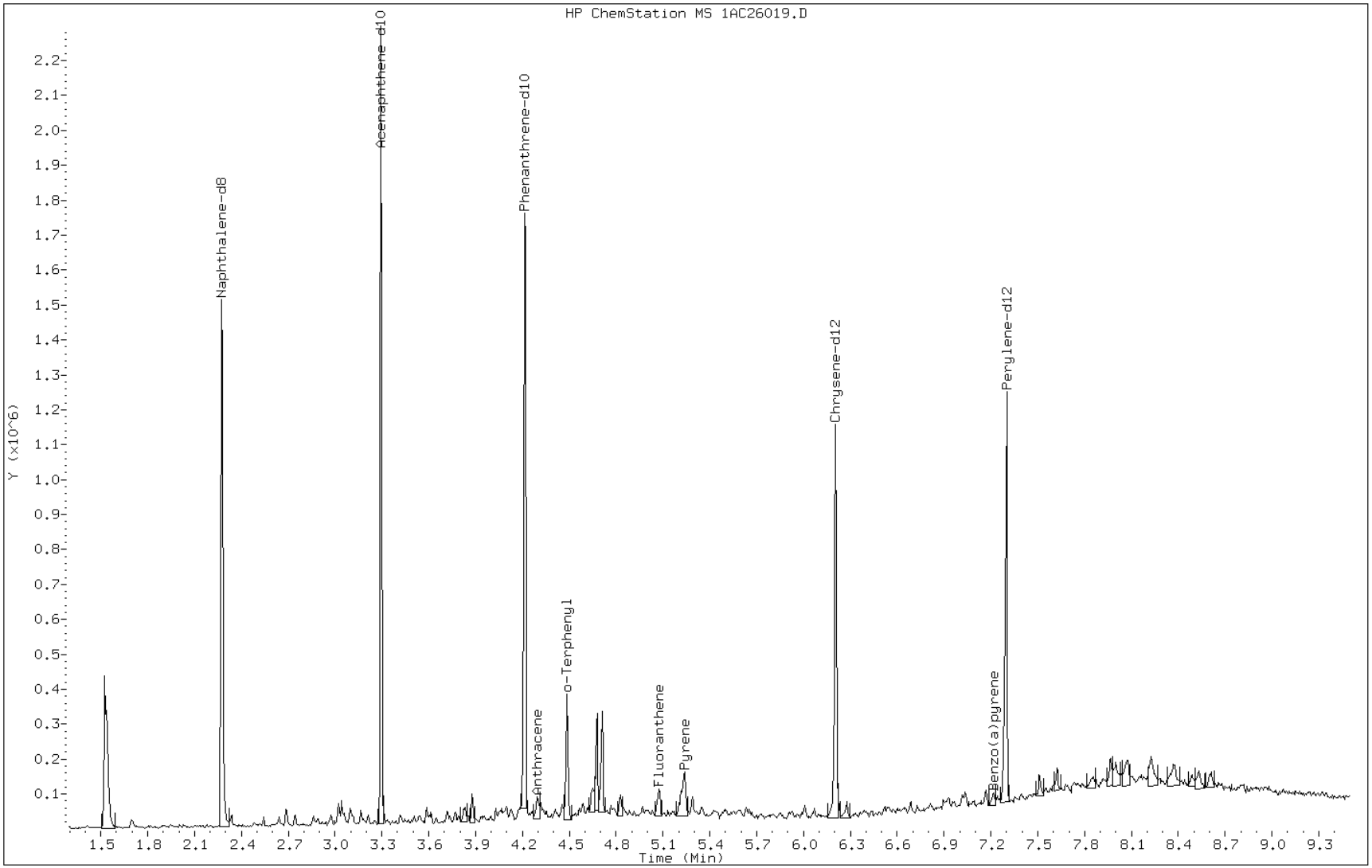
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC



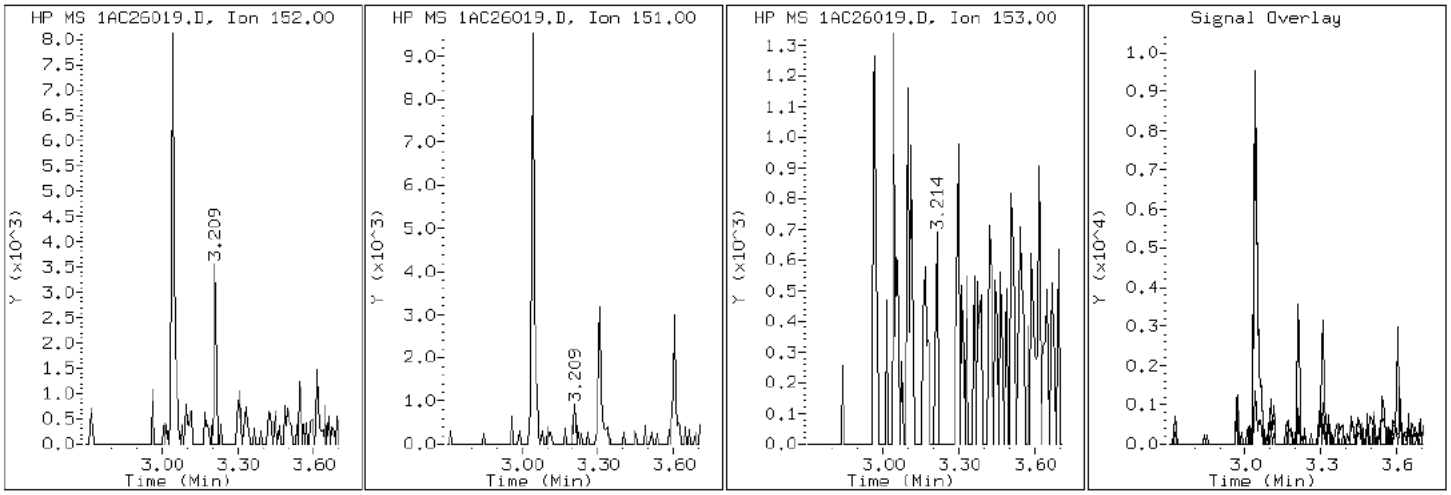
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

5 Acenaphthylene



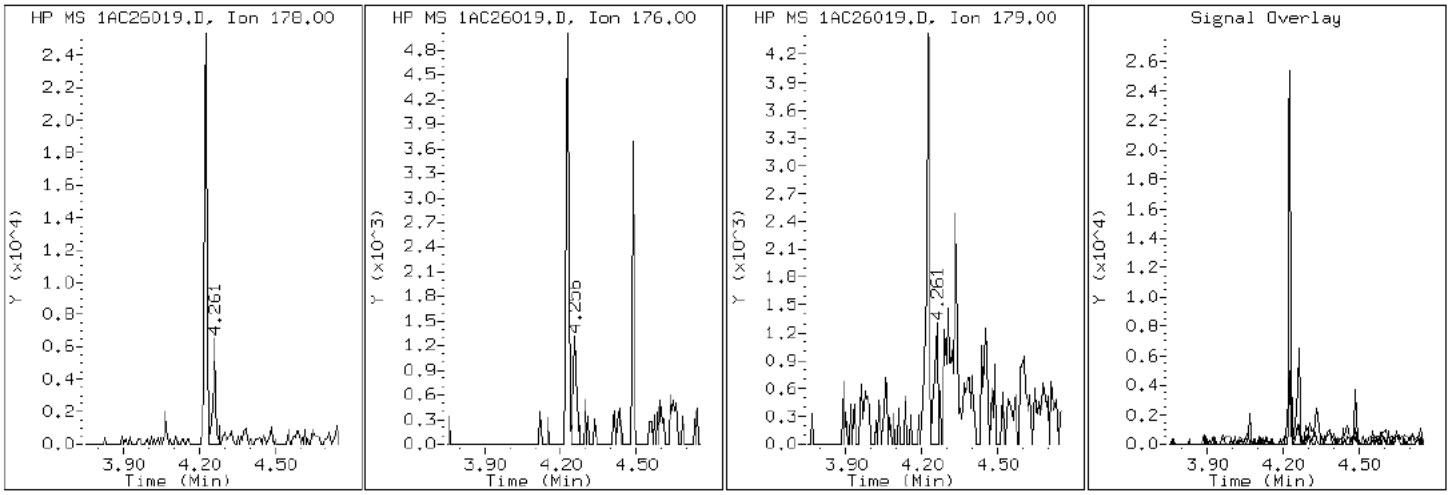
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

12 Anthracene



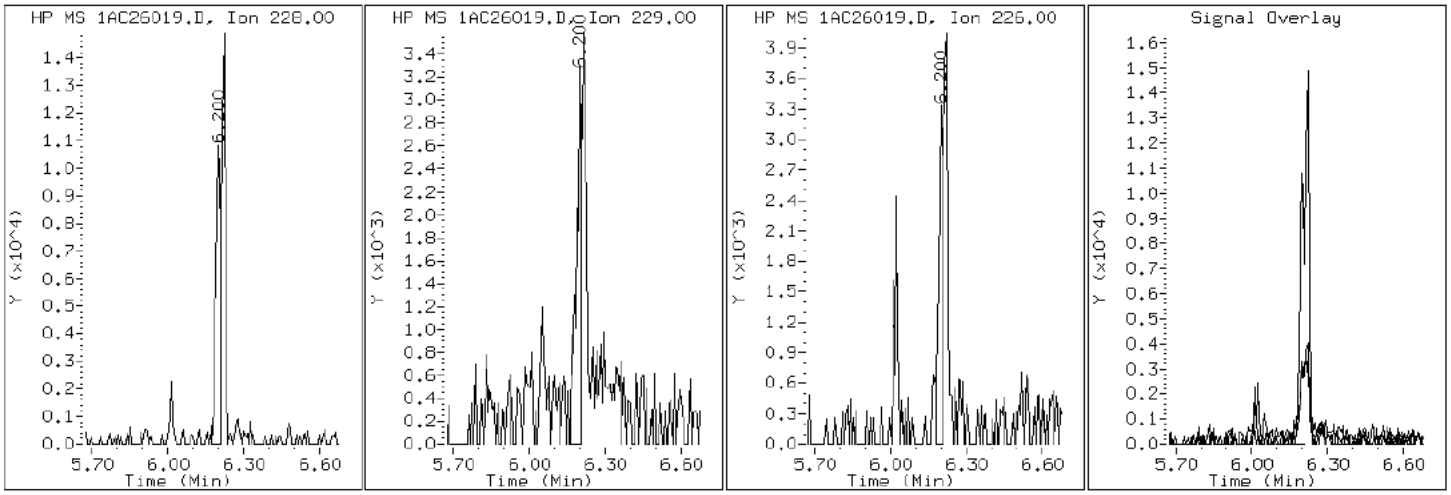
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

17 Benzo(a)anthracene



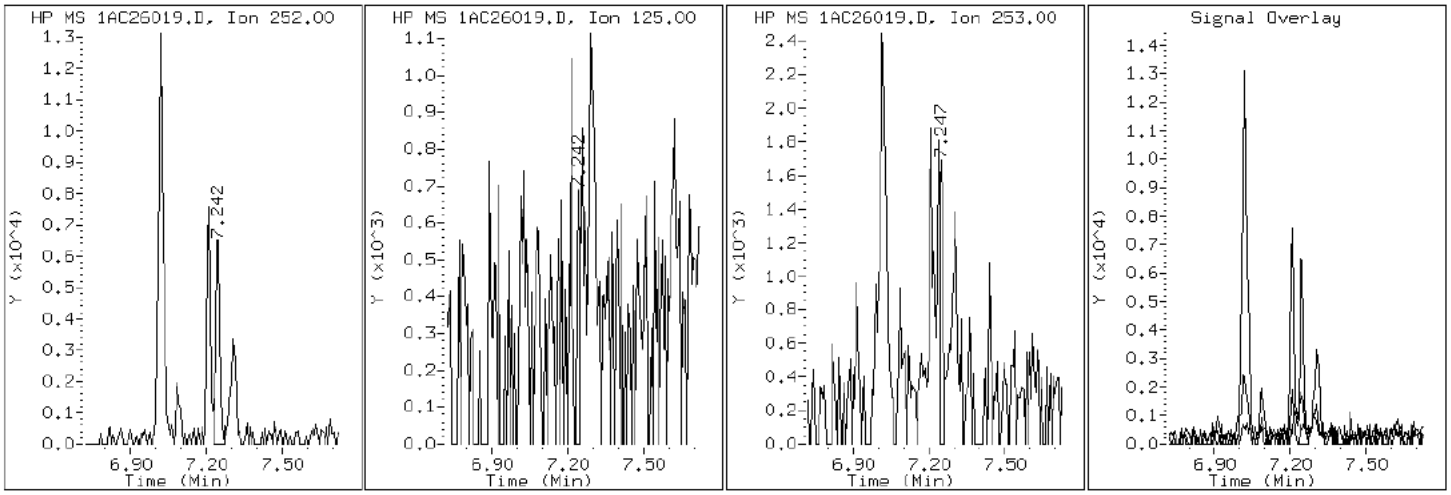
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

22 Benzo(a)pyrene



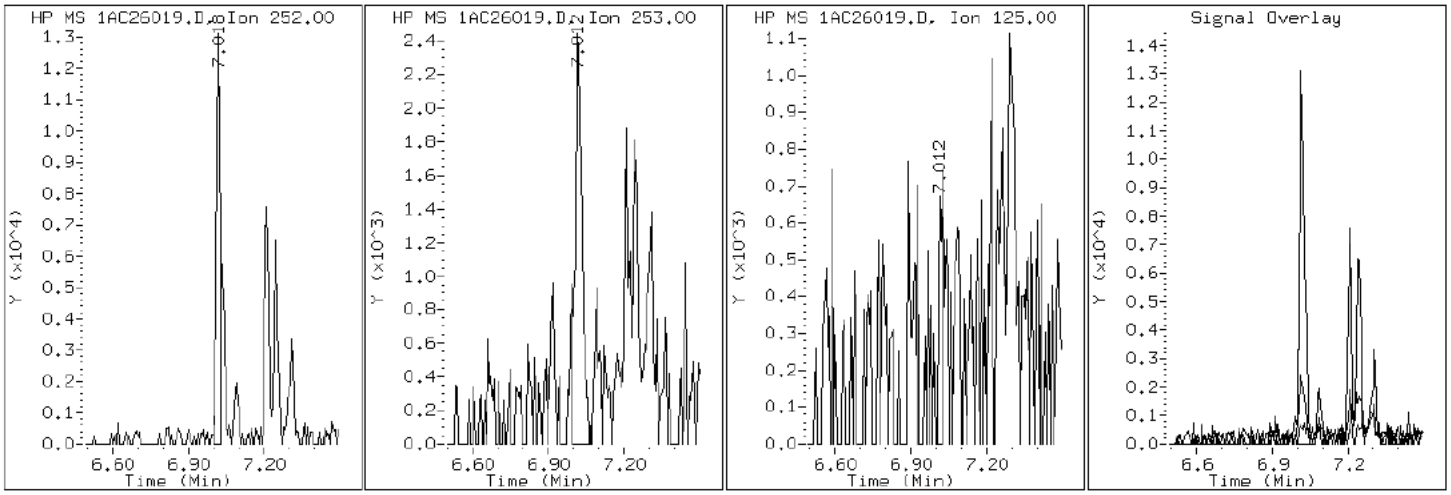
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

20 Benzo(b)fluoranthene



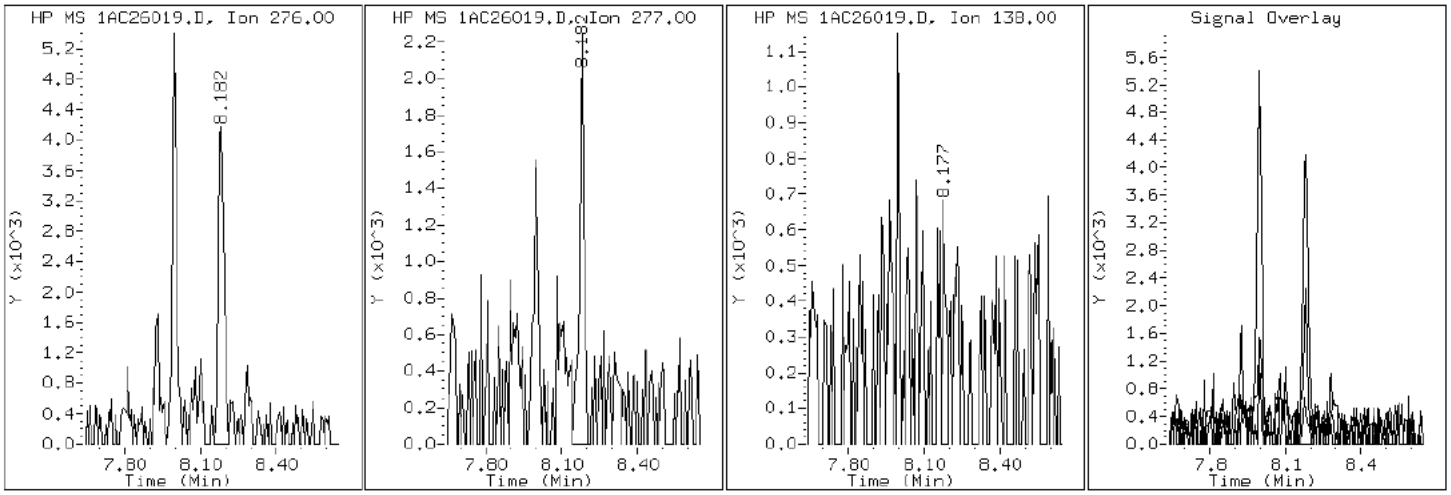
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

26 Benzo(g,h,i)perylene



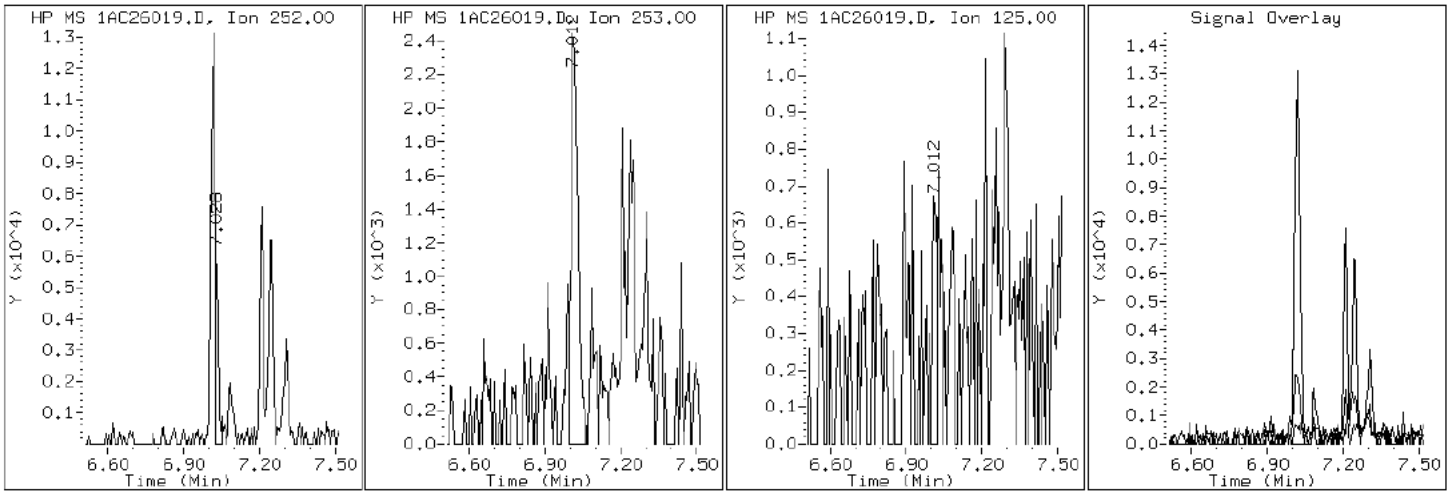
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

21 Benzo(k)fluoranthene



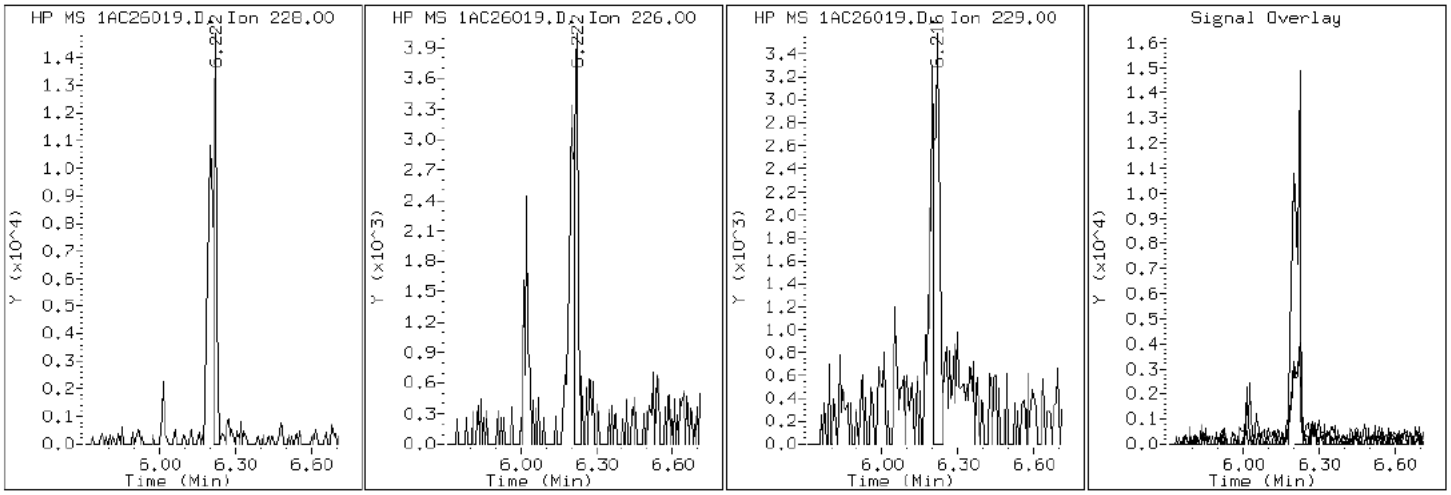
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

19 Chrysene



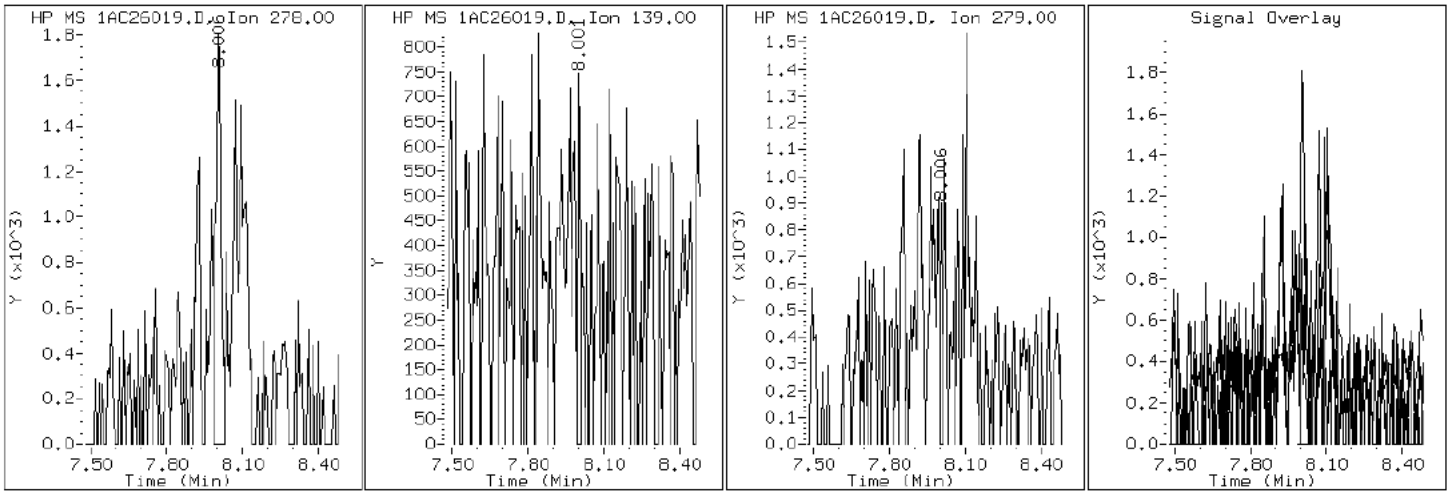
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

25 Dibenzo(a,h)anthracene



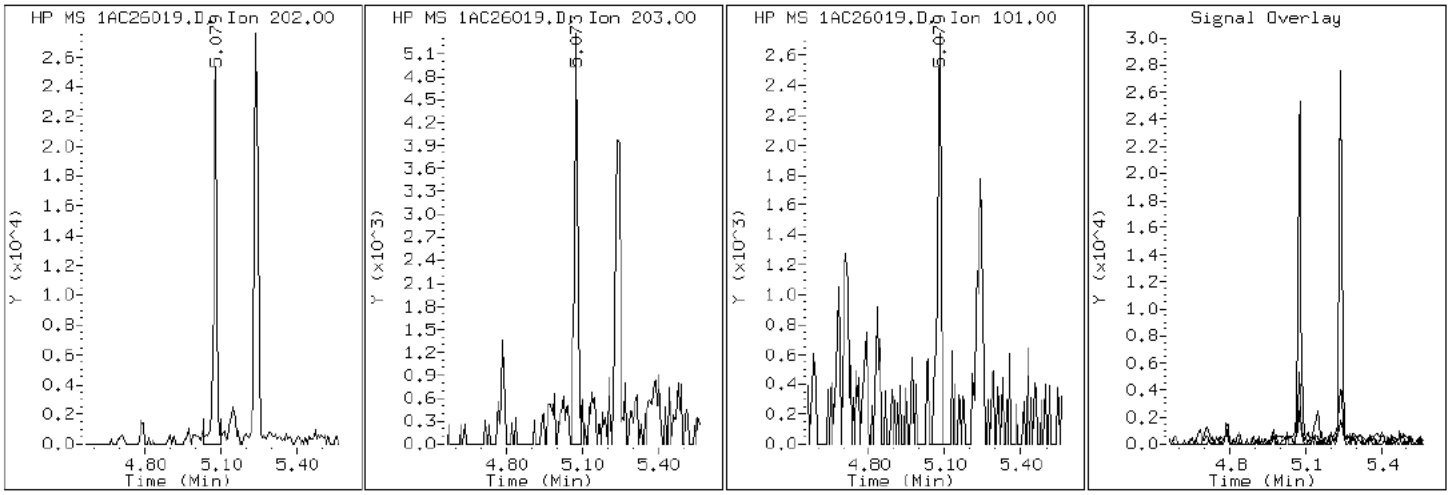
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

15 Fluoranthene



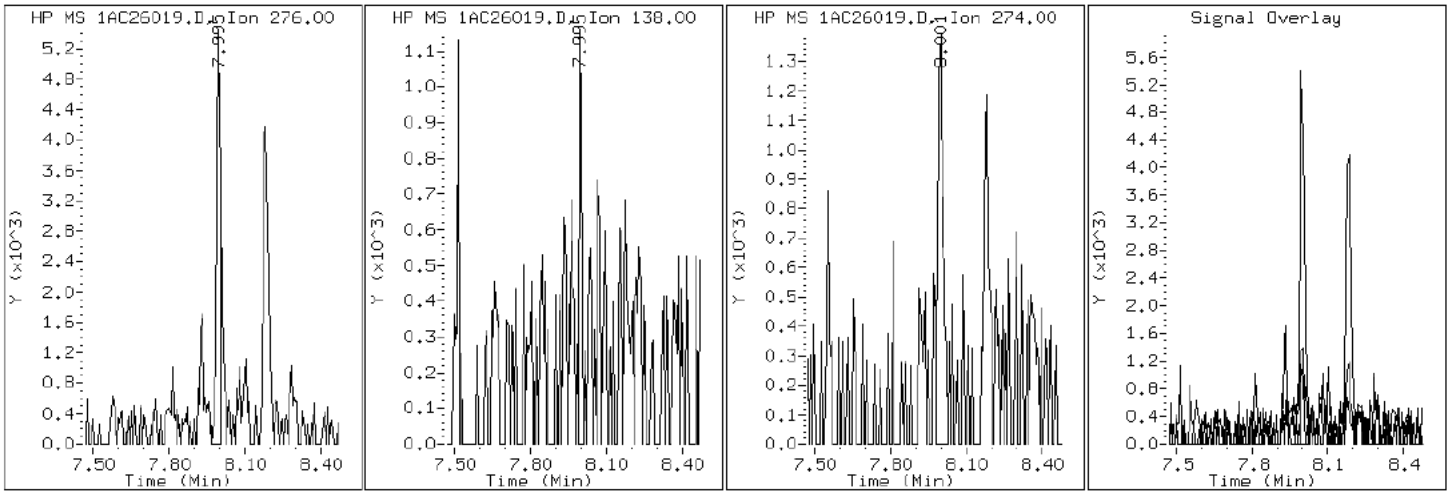
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

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



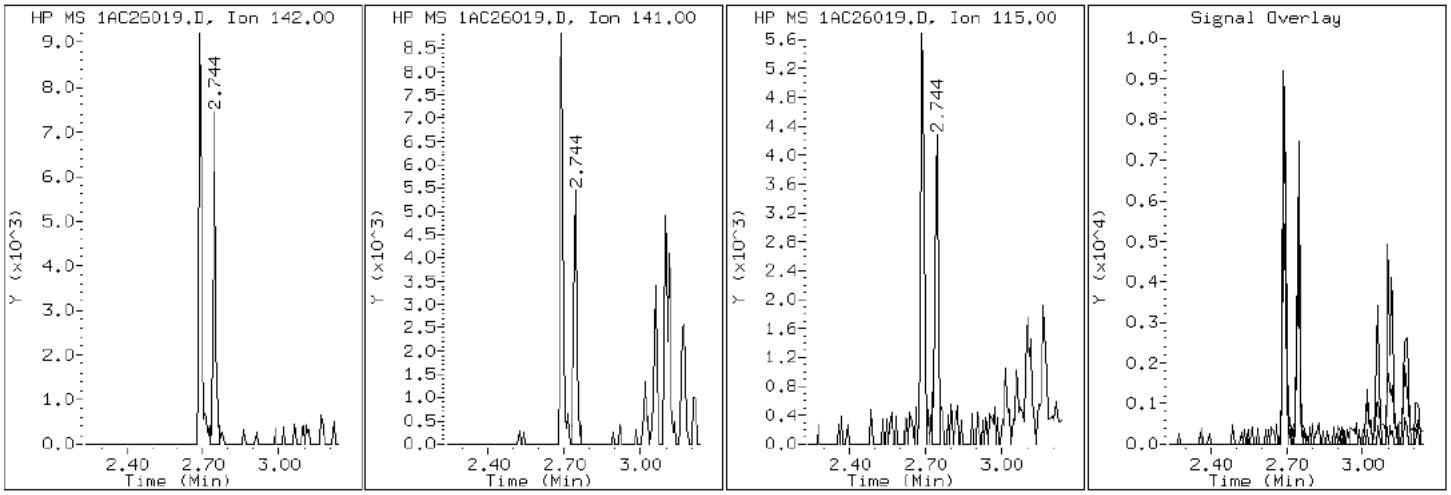
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

4 1-Methylnaphthalene



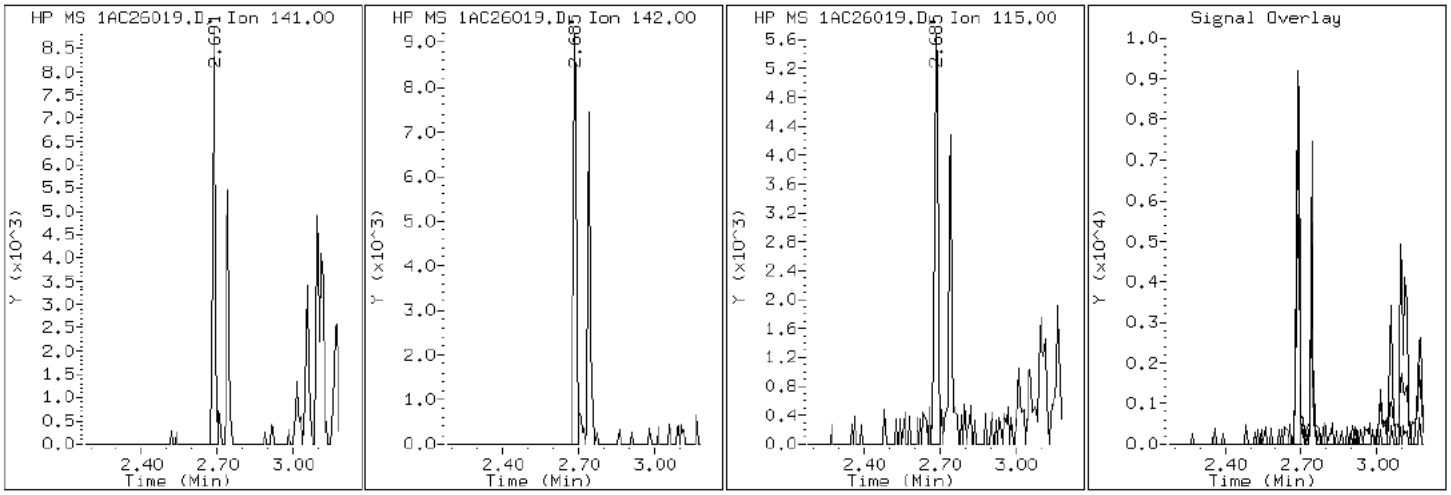
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

3 2-Methylnaphthalene



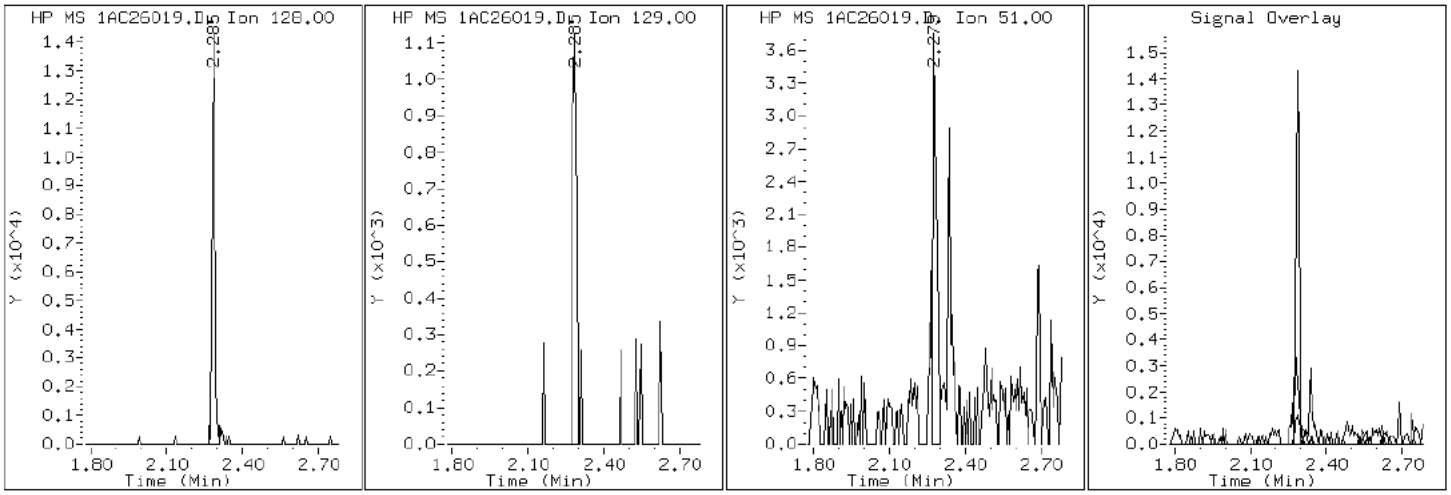
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

2 Naphthalene



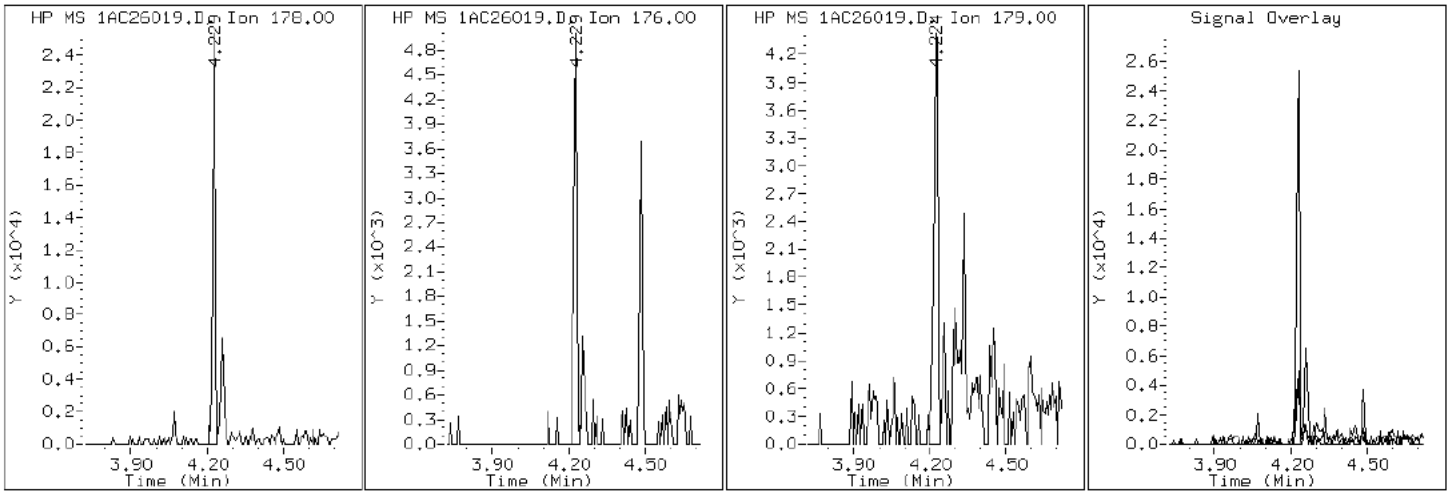
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

11 Phenanthrene



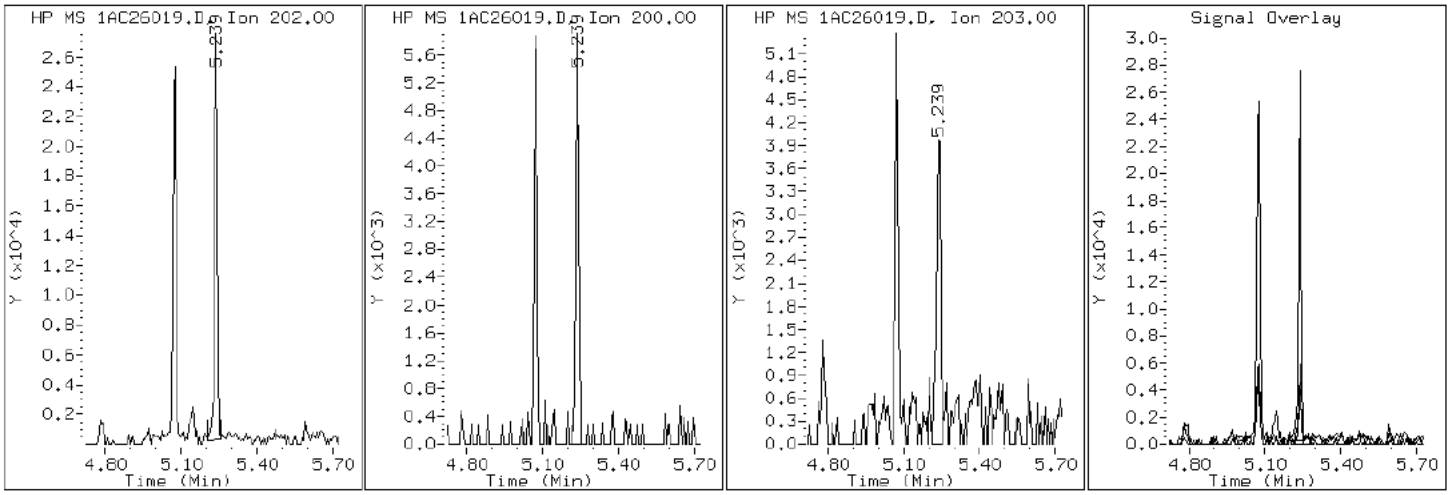
Data File: 1AC26019.D

Date: 26-MAR-2013 17:23

Client ID: CV0353B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-24-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AC26019.D
Inj. Date and Time: 26-MAR-2013 17:23
Instrument ID: BSMA5973.i
Client ID: CV0353B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/28/2013

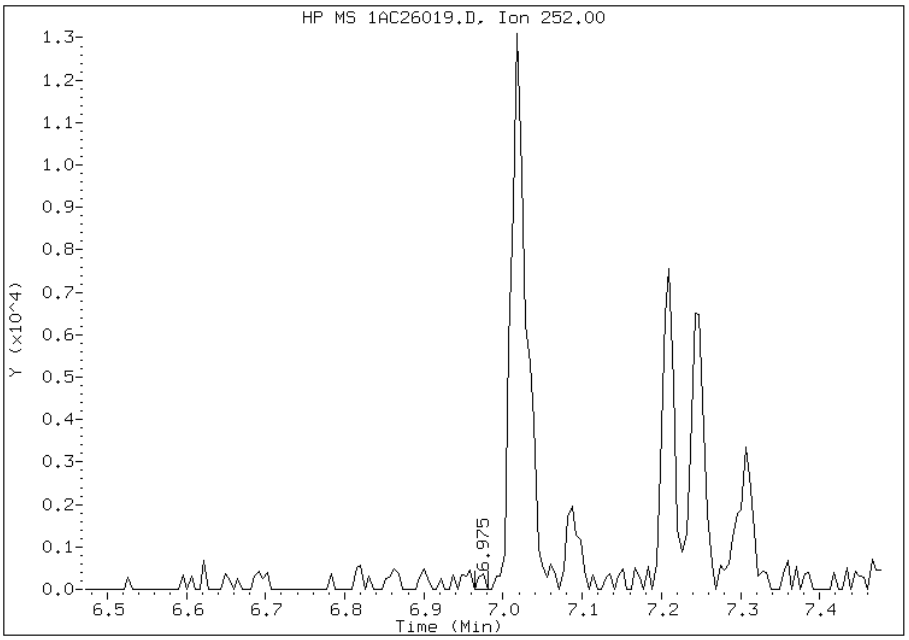
Processing Integration Results

RT: 6.98

Response: 207

Amount: 1

Conc: 107



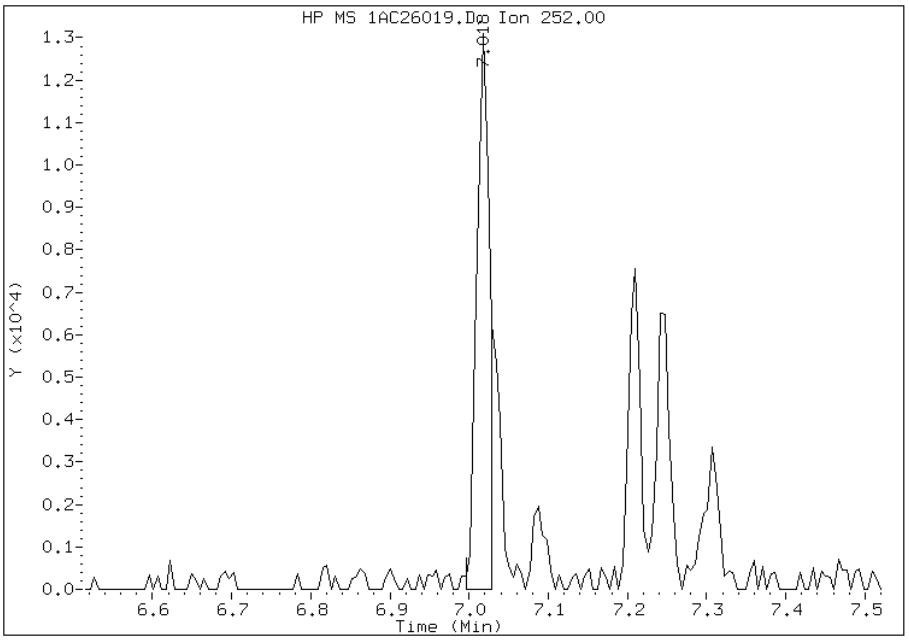
Manual Integration Results

RT: 7.02

Response: 14470

Amount: 3

Conc: 228



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC26019.D
Inj. Date and Time: 26-MAR-2013 17:23
Instrument ID: BSMA5973.i
Client ID: CV0353B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/28/2013

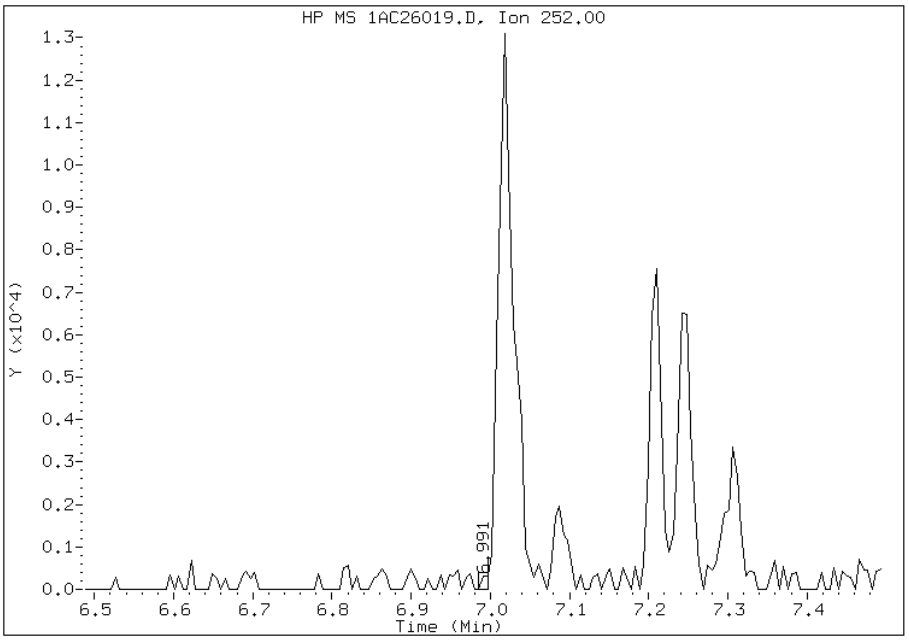
Processing Integration Results

RT: 6.99

Response: 201

Amount: 0

Conc: 2



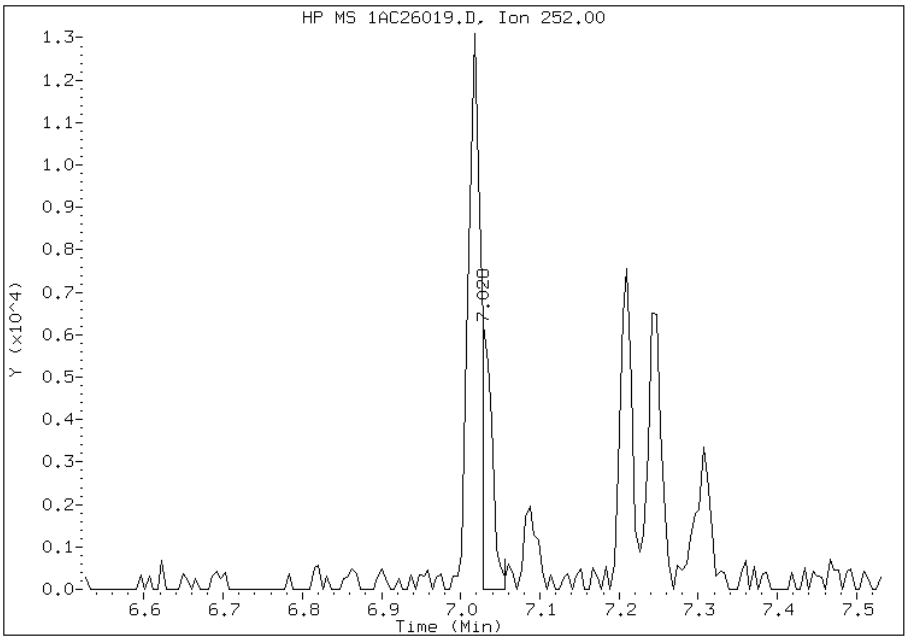
Manual Integration Results

RT: 7.03

Response: 5560

Amount: 1

Conc: 48



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC26019.D
Inj. Date and Time: 26-MAR-2013 17:23
Instrument ID: BSMA5973.i
Client ID: CV0353B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

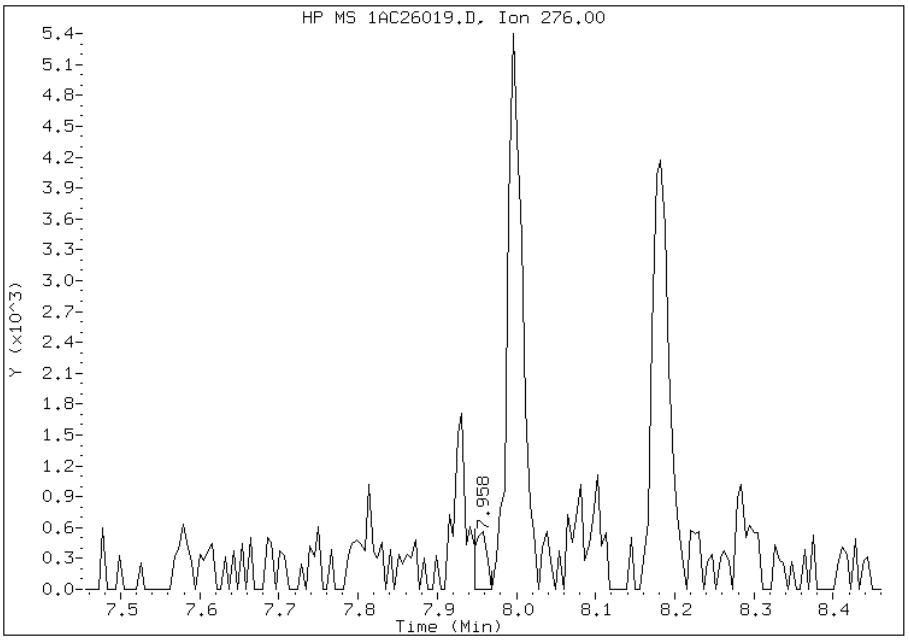
Processing Integration Results

RT: 7.96

Response: 564

Amount: 0

Conc: 6



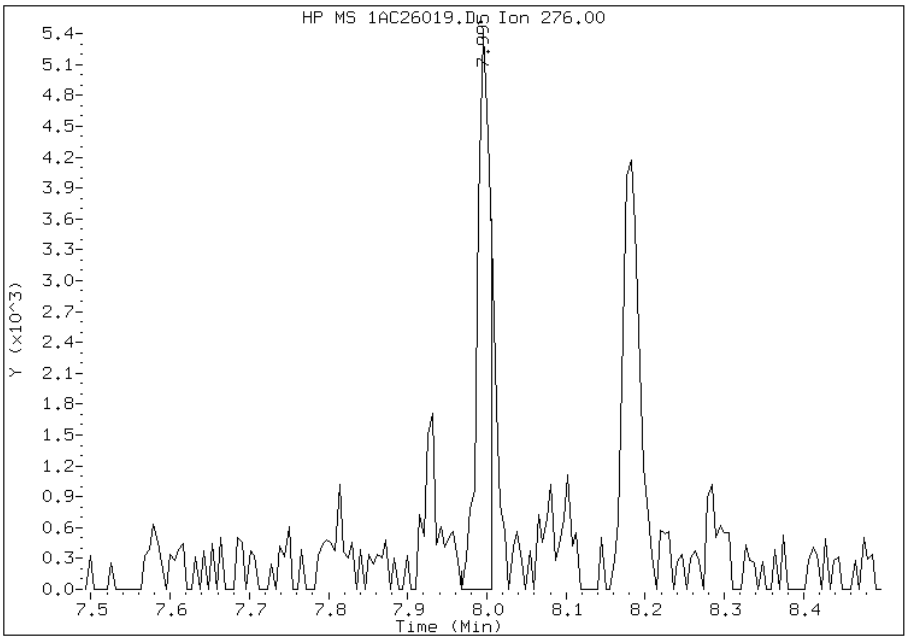
Manual Integration Results

RT: 8.00

Response: 6090

Amount: 1

Conc: 67



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0865A-CS-SP | Lab Sample ID: 680-88420-25

Matrix: Solid | Lab File ID: 1AC26020.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 13:10

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 14.93(g) | Date Analyzed: 03/26/2013 17:38

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

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

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135850 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	120		50	6.2
120-12-7	Anthracene	100		10	5.2
56-55-3	Benzo[a]anthracene	350		9.9	4.8
50-32-8	Benzo[a]pyrene	270		13	6.5
205-99-2	Benzo[b]fluoranthene	430		15	7.6
191-24-2	Benzo[g,h,i]perylene	230		25	5.5
207-08-9	Benzo[k]fluoranthene	170		9.9	4.5
218-01-9	Chrysene	350		11	5.6
53-70-3	Dibenz(a,h)anthracene	92		25	5.1
206-44-0	Fluoranthene	580		25	5.0
86-73-7	Fluorene	50		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	220		25	8.8
90-12-0	1-Methylnaphthalene	93		50	5.5
91-57-6	2-Methylnaphthalene	160		50	8.8
91-20-3	Naphthalene	74		50	5.5
85-01-8	Phenanthrene	380		9.9	4.8
129-00-0	Pyrene	600		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26020.D
Lab Smp Id: 680-88420-A-25-A Client Smp ID: CV0865A-CS-SP
Inj Date : 26-MAR-2013 17:38
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88420-A-25-A
Misc Info : 680-88420-A-25-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	19.118	% 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	2.277	2.272	(1.000)	392425	40.0000	
* 6 Acenaphthene-d10	164	3.297	3.287	(1.000)	328297	40.0000	
* 10 Phenanthrene-d10	188	4.216	4.205	(1.000)	469842	40.0000	
$ 14 o-Terphenyl	230	4.488	4.478	(1.065)	47798	7.73733	640.7333
* 18 Chrysene-d12	240	6.209	6.193	(1.000)	340182	40.0000	
* 23 Perylene-d12	264	7.304	7.272	(1.000)	437686	40.0000	(H)
2 Naphthalene	128	2.287	2.282	(1.005)	8093	0.89264	73.9203(Q)
3 2-Methylnaphthalene	141	2.688	2.683	(1.181)	6039	1.96666	162.8604
4 1-Methylnaphthalene	142	2.742	2.736	(1.204)	5856	1.12327	93.0191
5 Acenaphthylene	152	3.212	3.201	(0.974)	15236	1.47040	121.7652
9 Fluorene	166	3.618	3.612	(1.097)	3244	0.60961	50.4822
11 Phenanthrene	178	4.227	4.221	(1.003)	54876	4.60832	381.6185
12 Anthracene	178	4.259	4.253	(1.010)	13980	1.21077	100.2647
13 Carbazole	167	4.424	4.408	(1.049)	7568	0.74782	61.9271

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.076	5.065	(1.204)	82482	7.00722	580.2731
16 Pyrene	202	5.242	5.226	(0.844)	70432	7.22098	597.9742
17 Benzo(a)anthracene	228	6.198	6.177	(0.998)	40174	4.24084	351.1867
19 Chrysene	228	6.225	6.209	(1.003)	37161	4.21765	349.2661
20 Benzo(b)fluoranthene	252	7.021	6.994	(0.961)	47867	5.17162	428.2657(MH)
21 Benzo(k)fluoranthene	252	7.031	7.015	(0.963)	24412	2.06773	171.2299(QM)
22 Benzo(a)pyrene	252	7.250	7.224	(0.993)	33587	3.26989	270.7819(H)
24 Indeno(1,2,3-cd)pyrene	276	8.009	7.972	(1.097)	24829	2.67897	221.8477(MH)
25 Dibenzo(a,h)anthracene	278	8.009	7.982	(1.097)	10226	1.11327	92.1905(H)
26 Benzo(g,h,i)perylene	276	8.191	8.148	(1.121)	25644	2.74876	227.6270(H)

QC Flag Legend

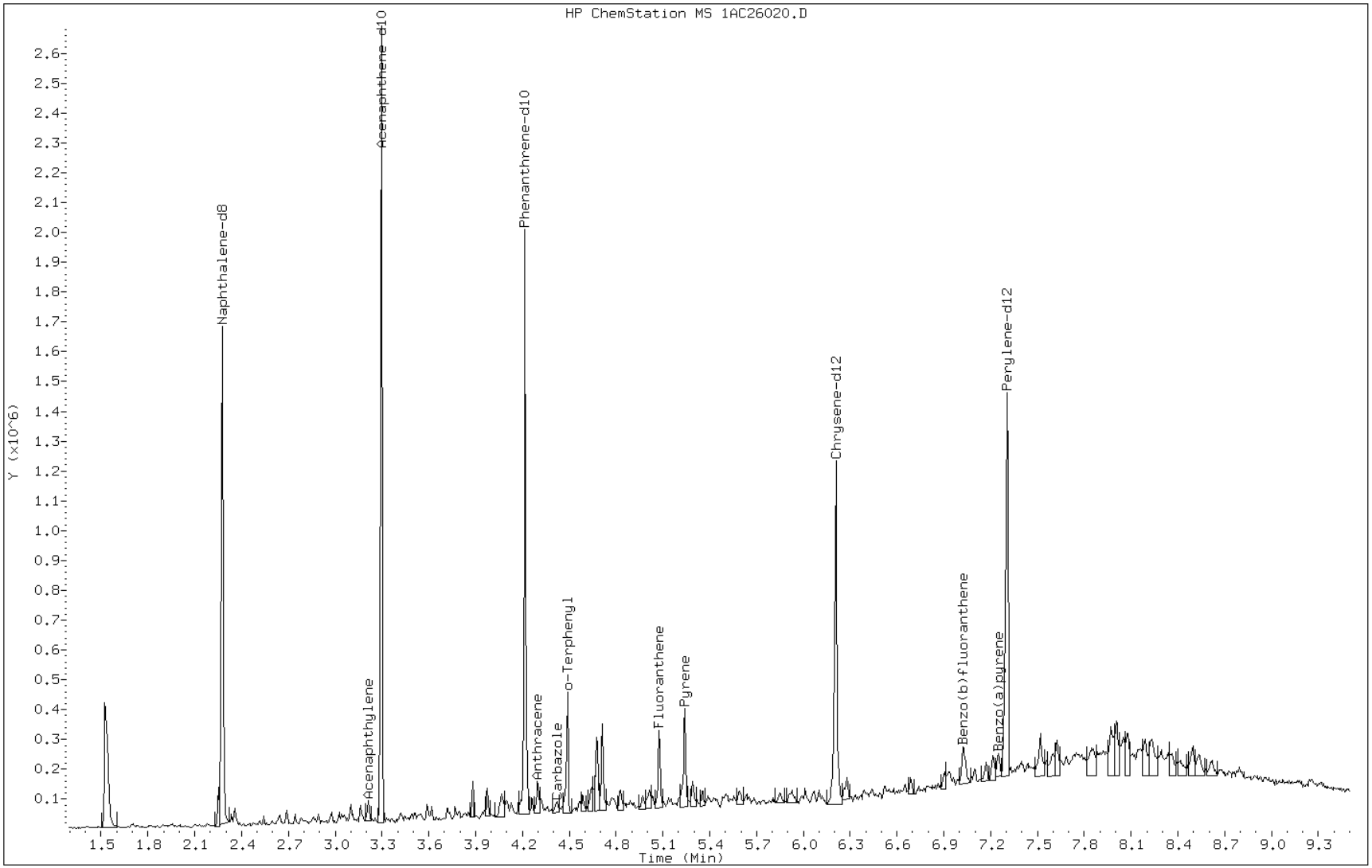
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC



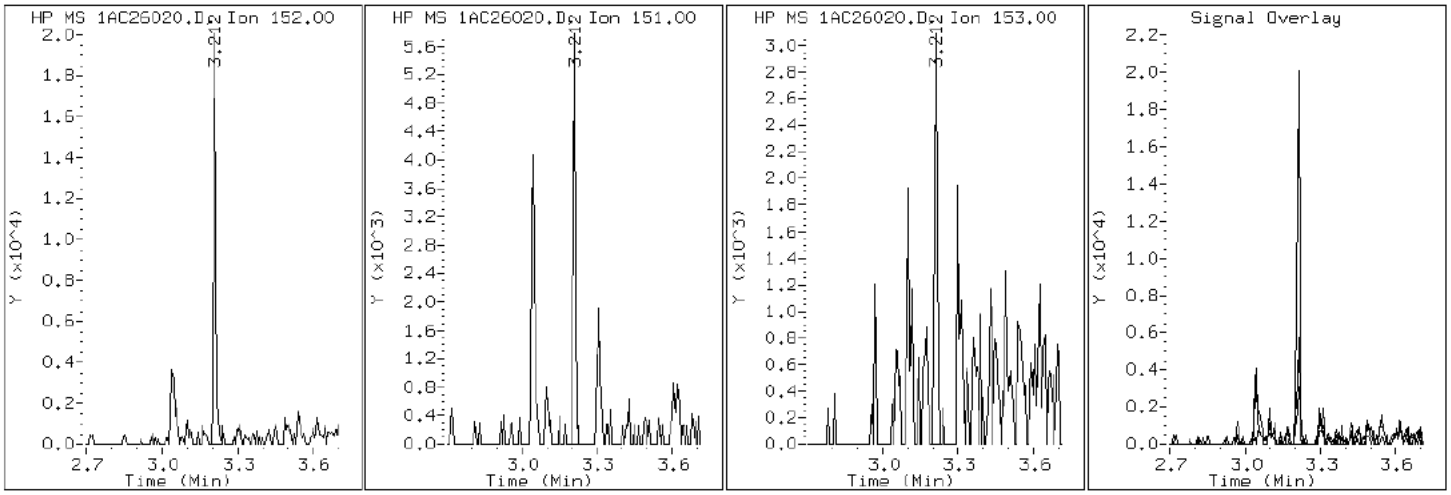
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

5 Acenaphthylene



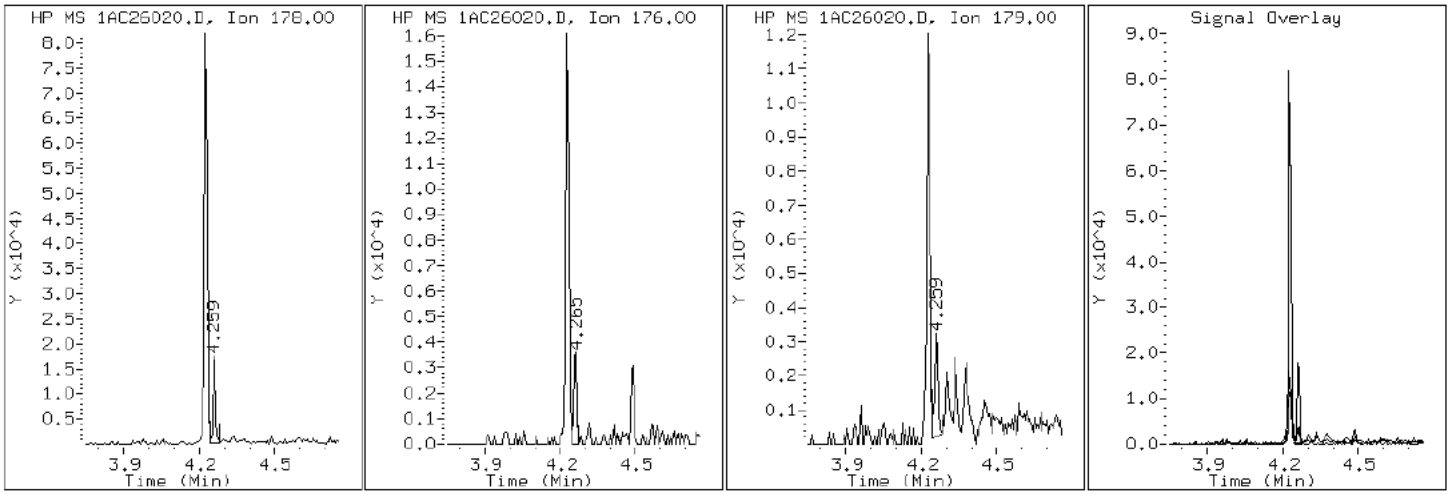
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

12 Anthracene



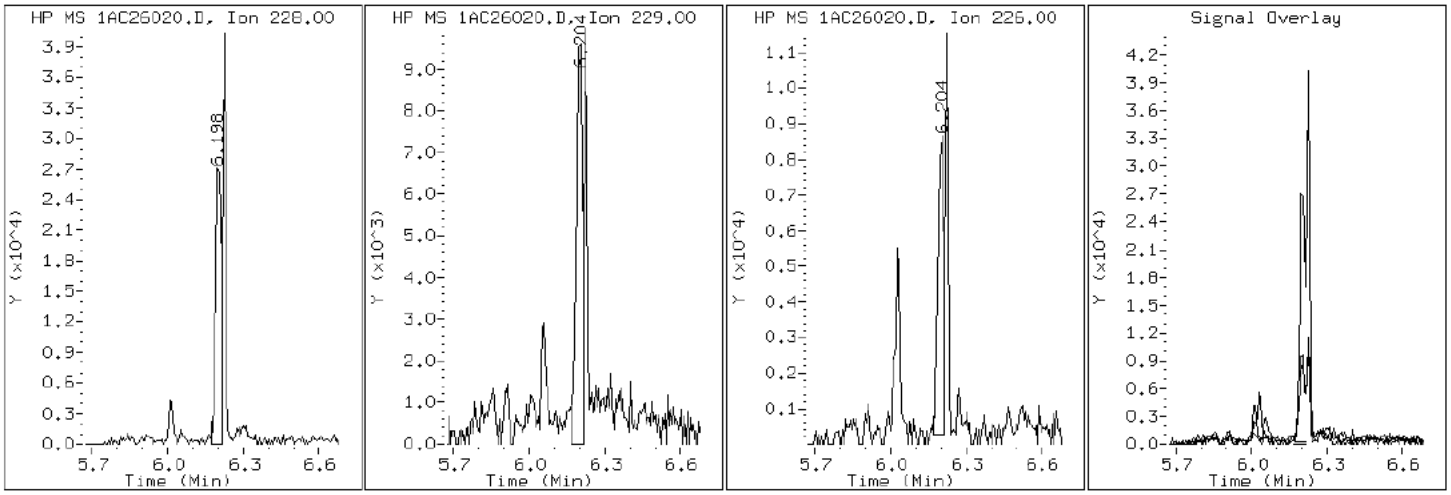
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

17 Benzo(a)anthracene



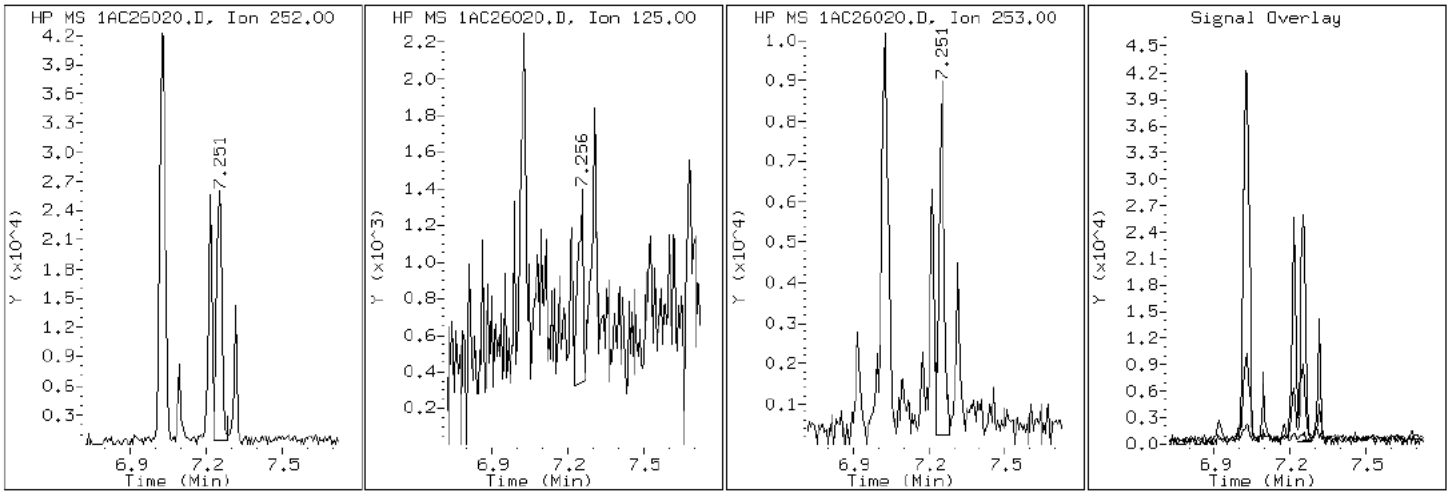
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

22 Benzo(a)pyrene



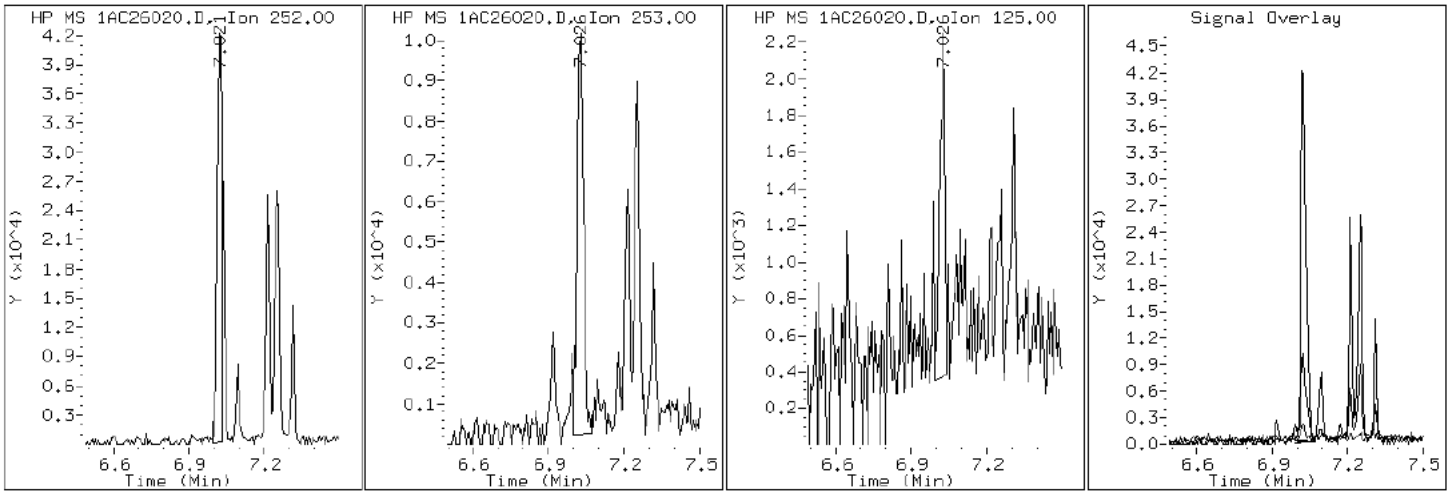
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

20 Benzo(b)fluoranthene



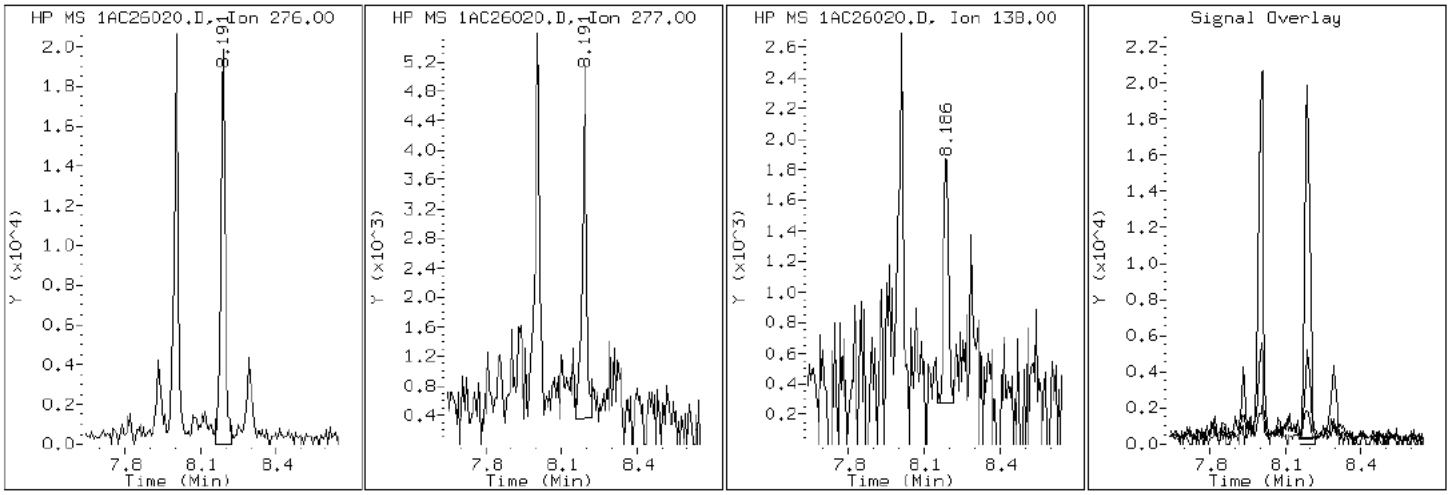
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

26 Benzo(g,h,i)perylene



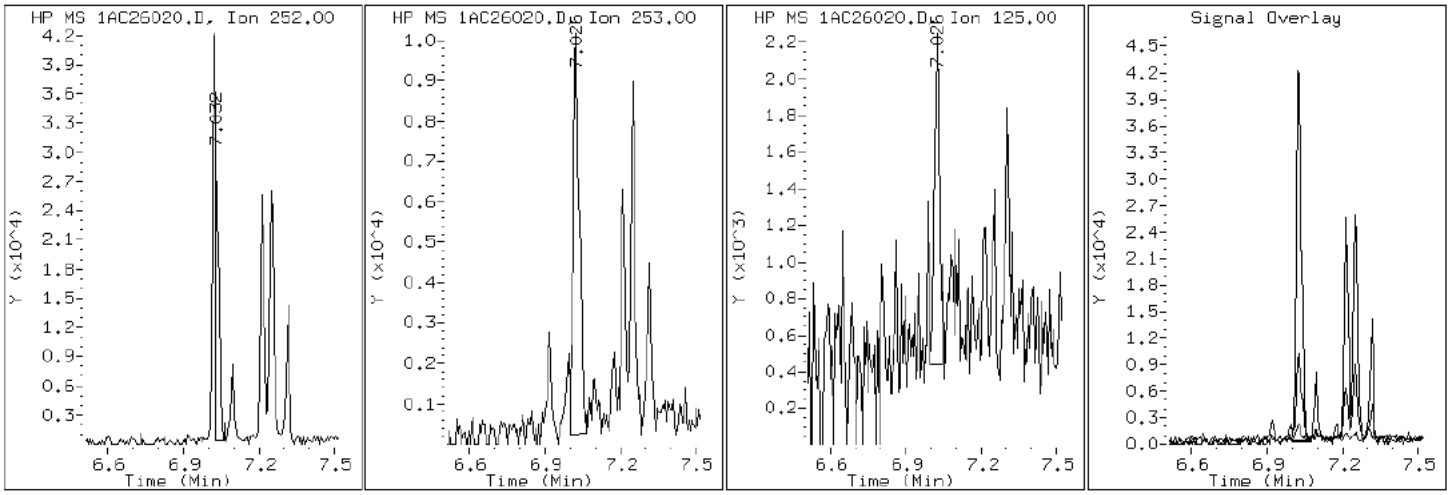
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

21 Benzo(k)fluoranthene



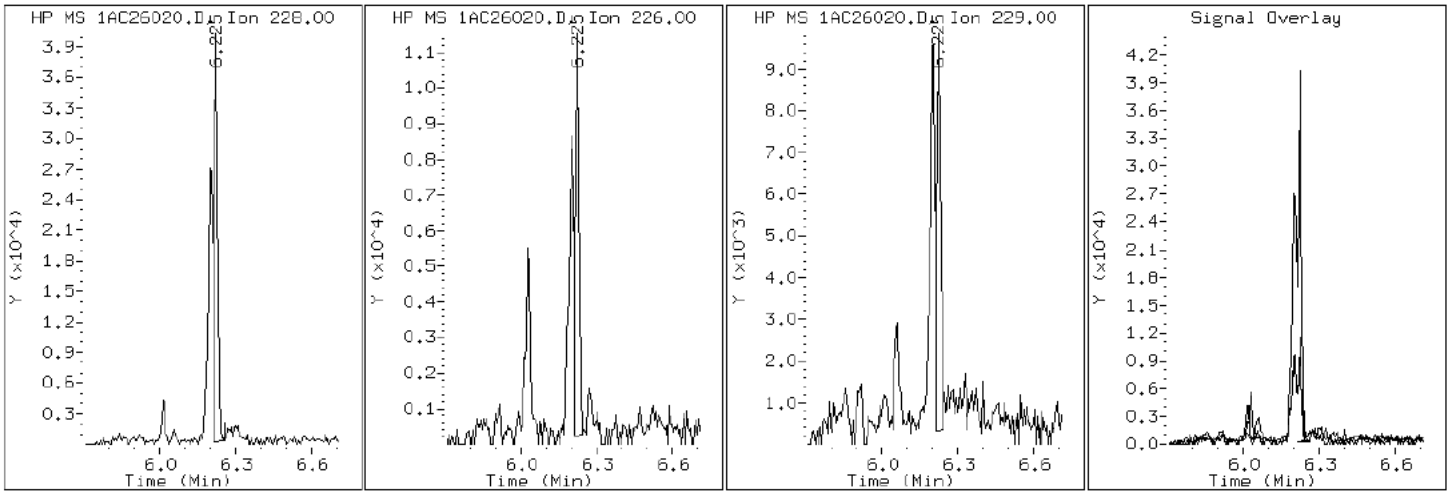
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

19 Chrysene



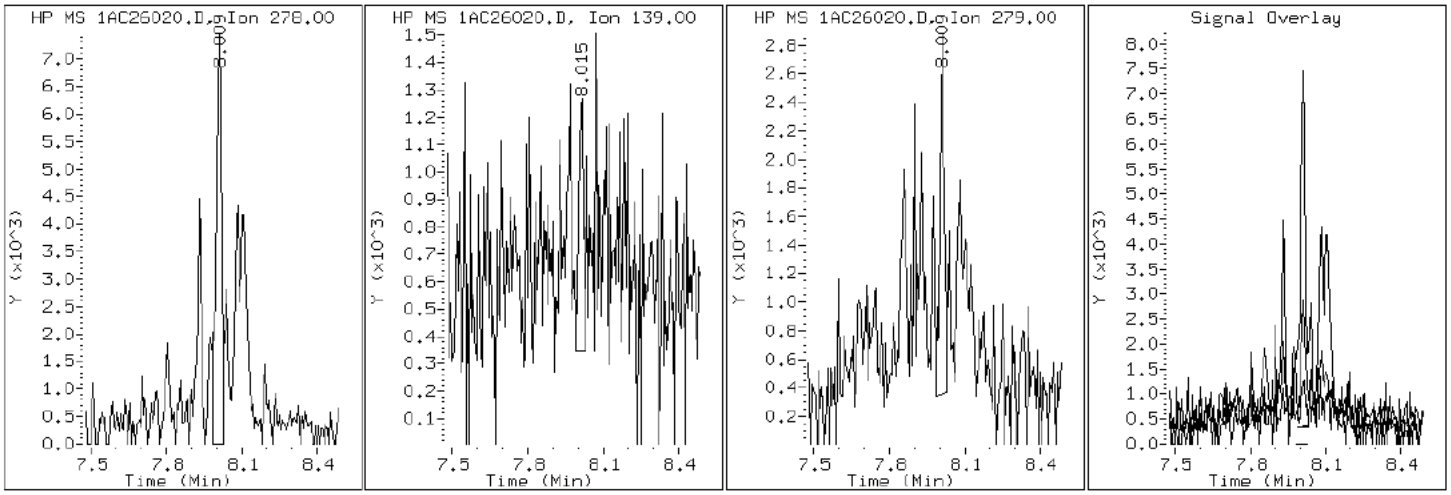
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

25 Dibenzo(a,h)anthracene



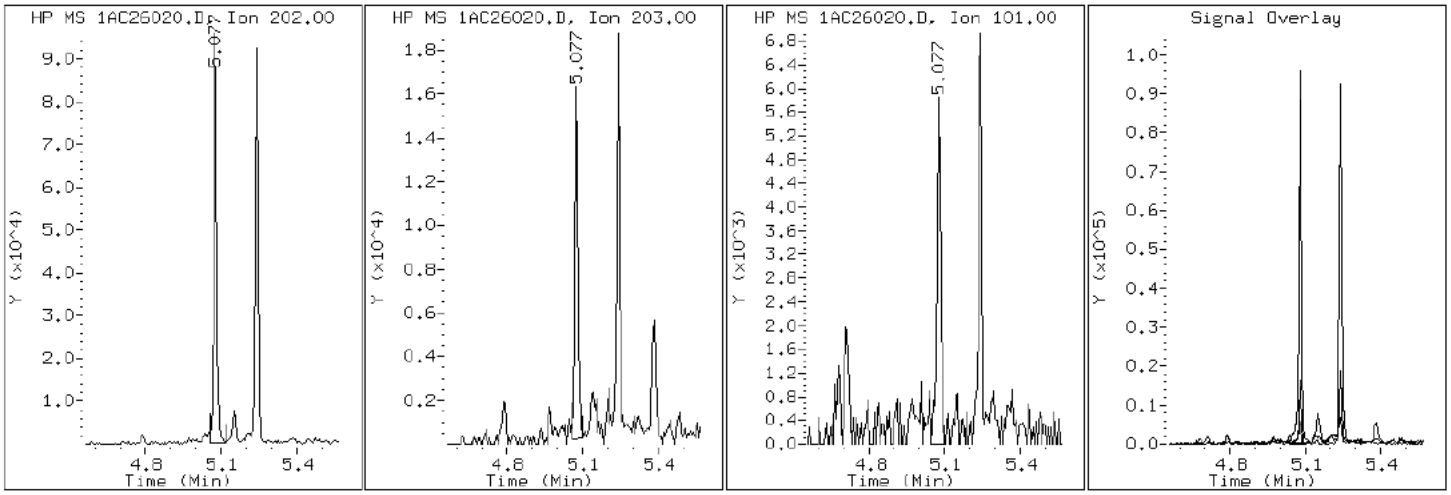
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

15 Fluoranthene



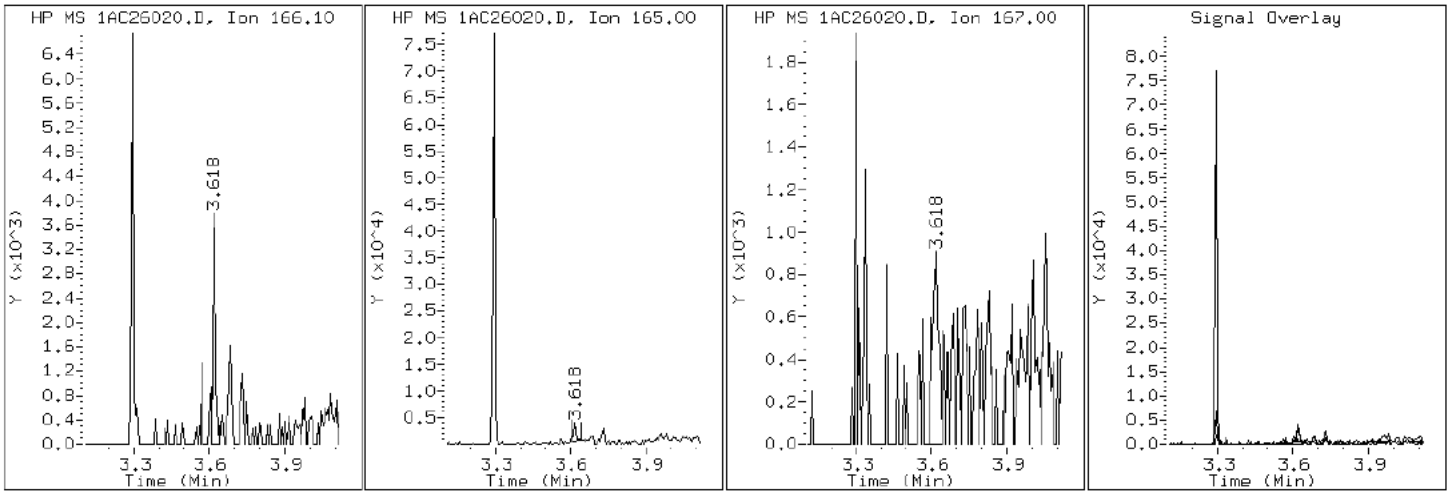
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

9 Fluorene



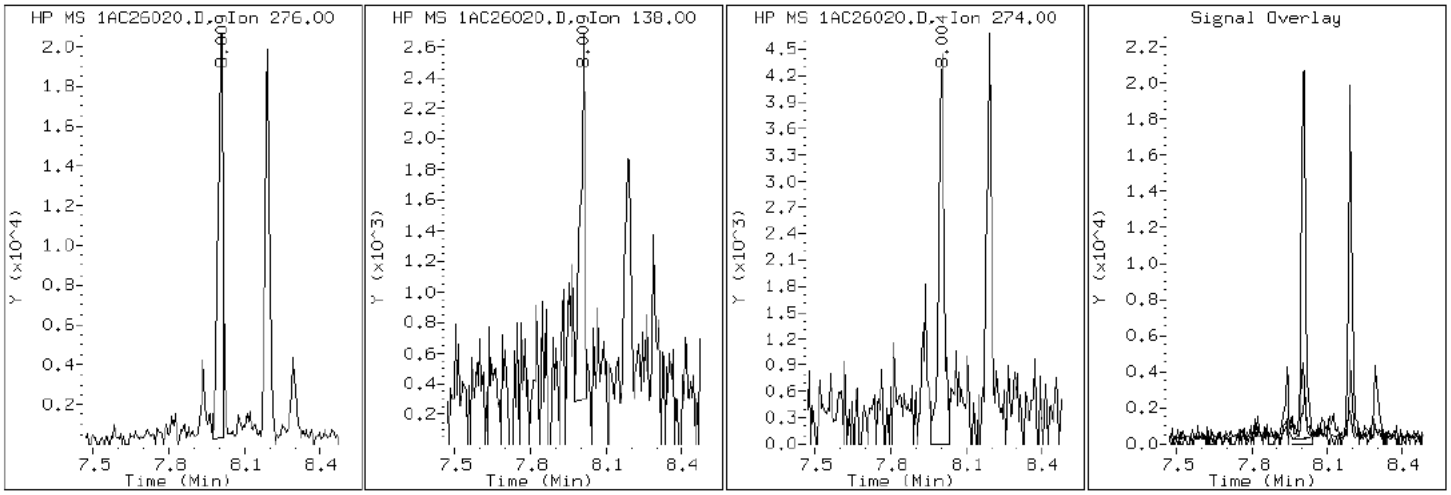
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

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



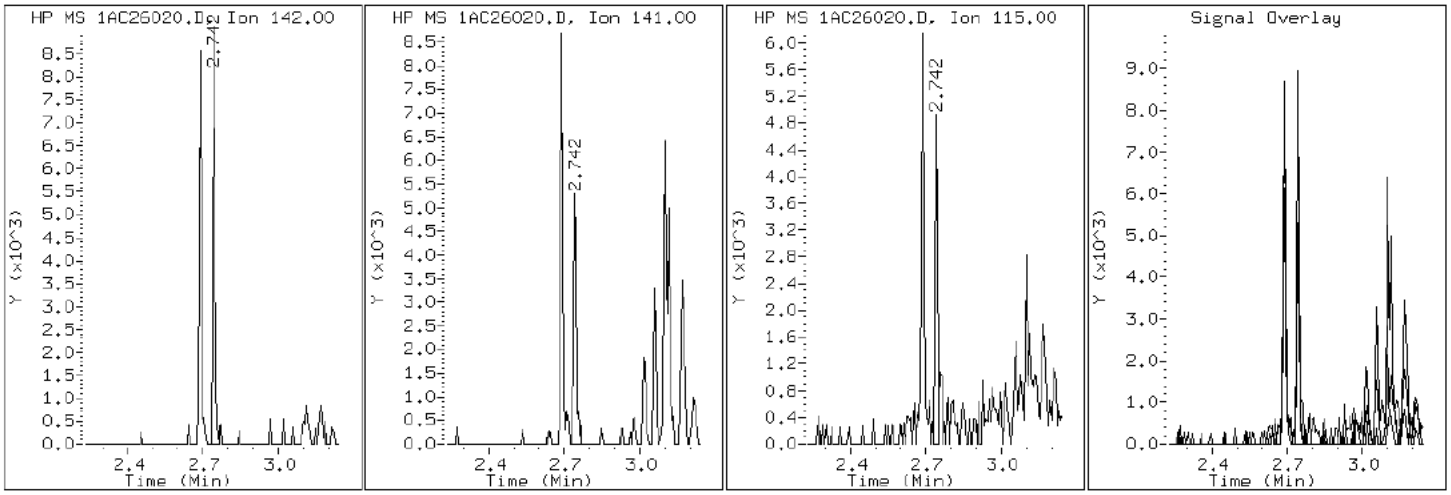
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

4 1-Methylnaphthalene



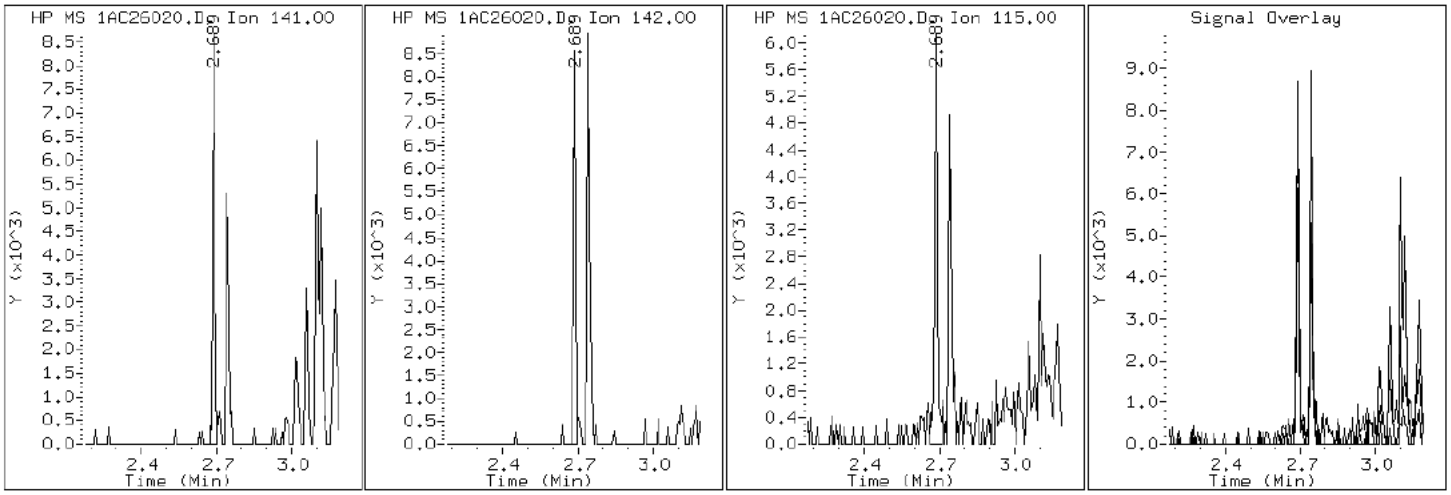
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

3 2-Methylnaphthalene



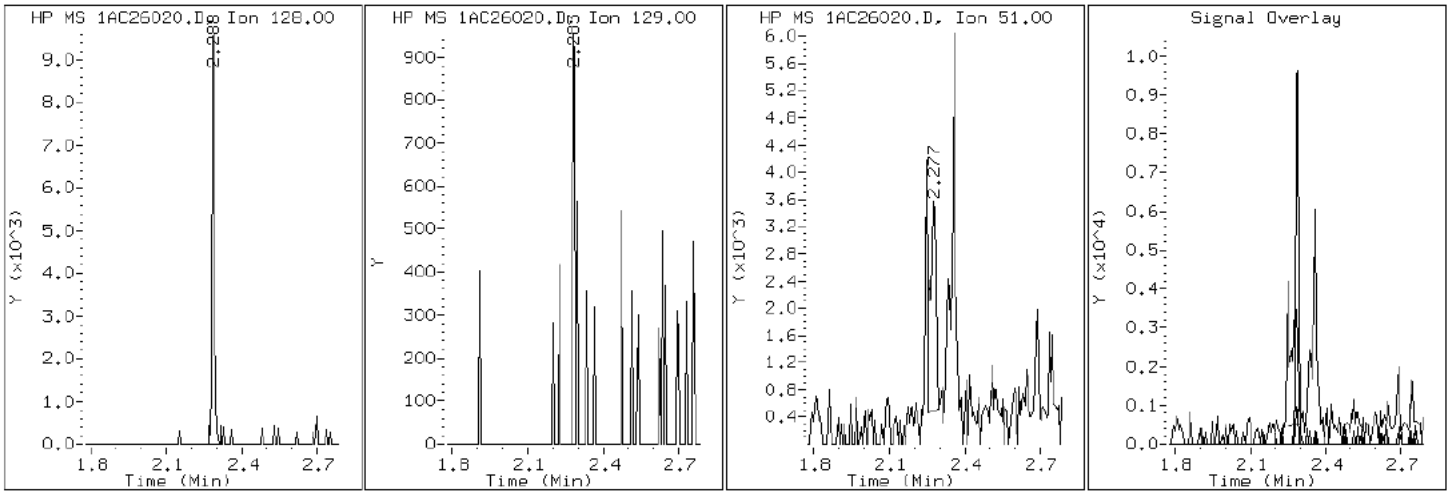
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

2 Naphthalene



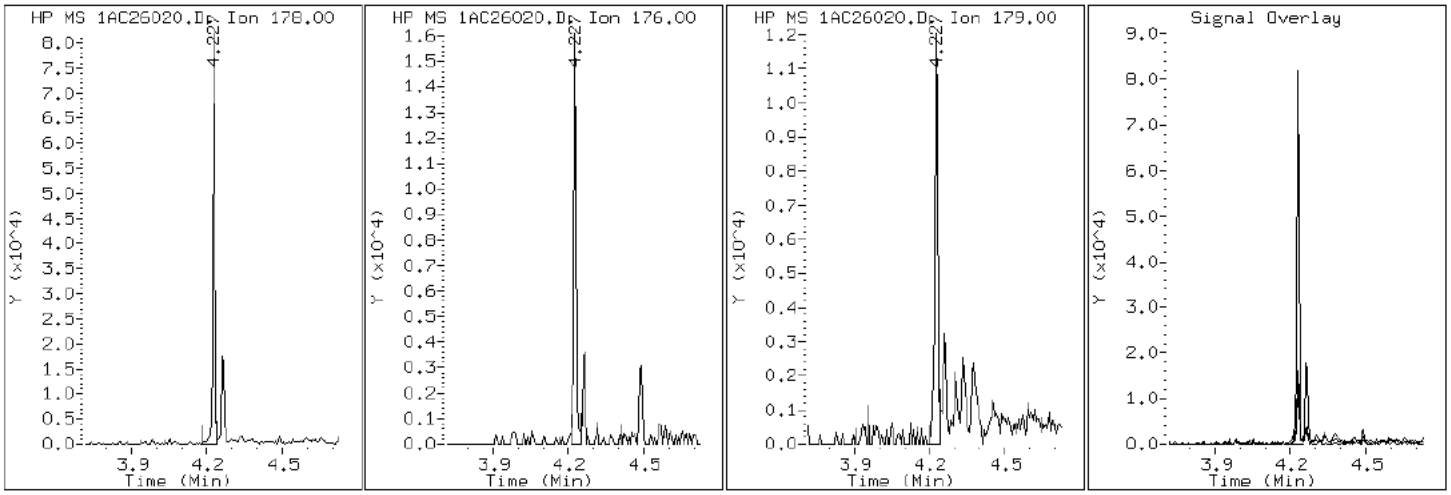
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

11 Phenanthrene



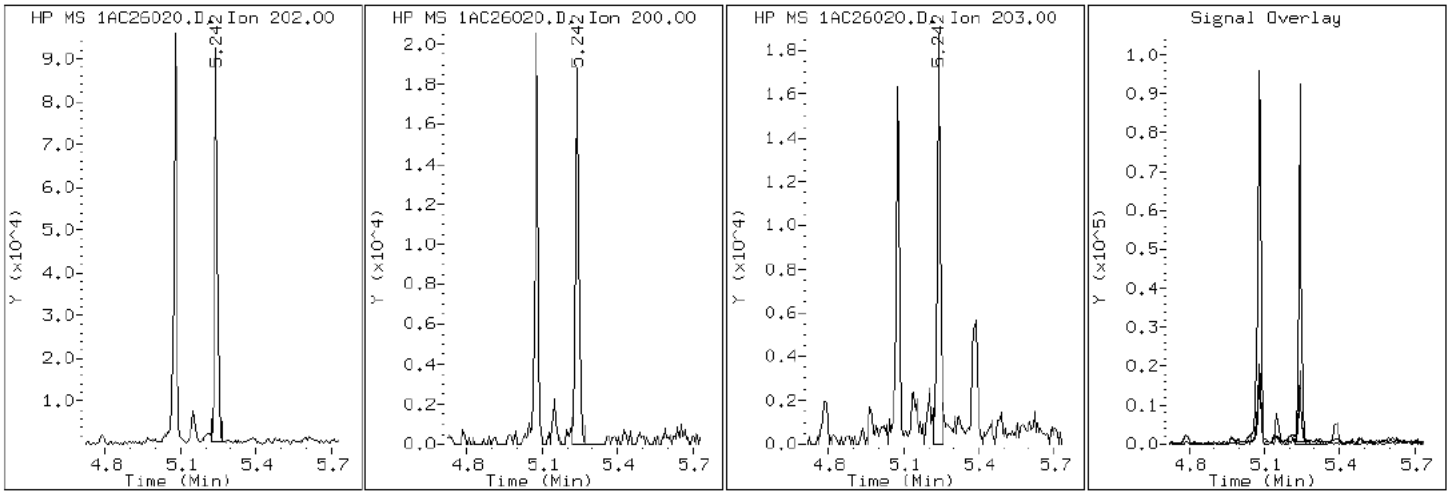
Data File: 1AC26020.D

Date: 26-MAR-2013 17:38

Client ID: CV0865A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-25-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AC26020.D
Inj. Date and Time: 26-MAR-2013 17:38
Instrument ID: BSMA5973.i
Client ID: CV0865A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/28/2013

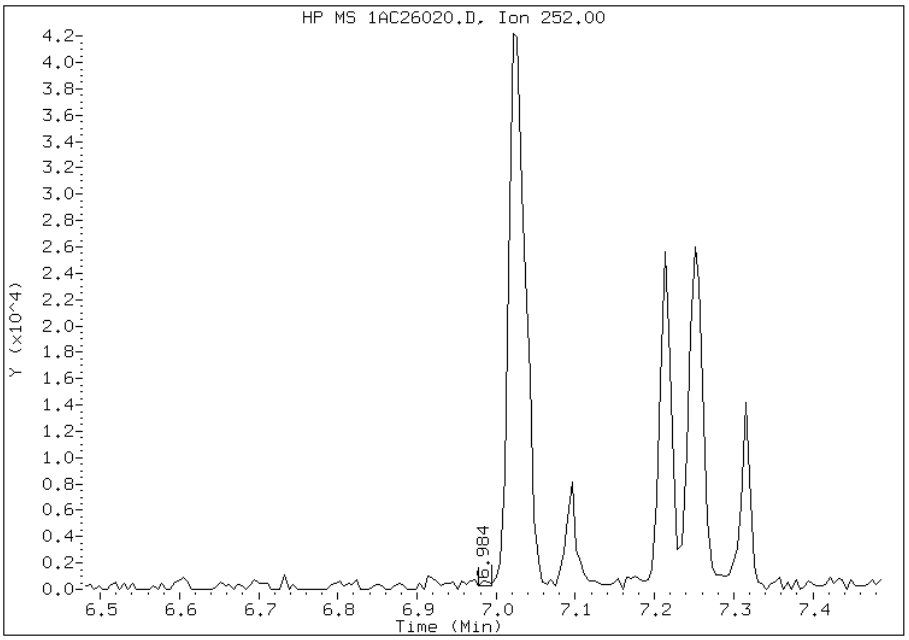
Processing Integration Results

RT: 6.98

Response: 317

Amount: 1

Conc: 102



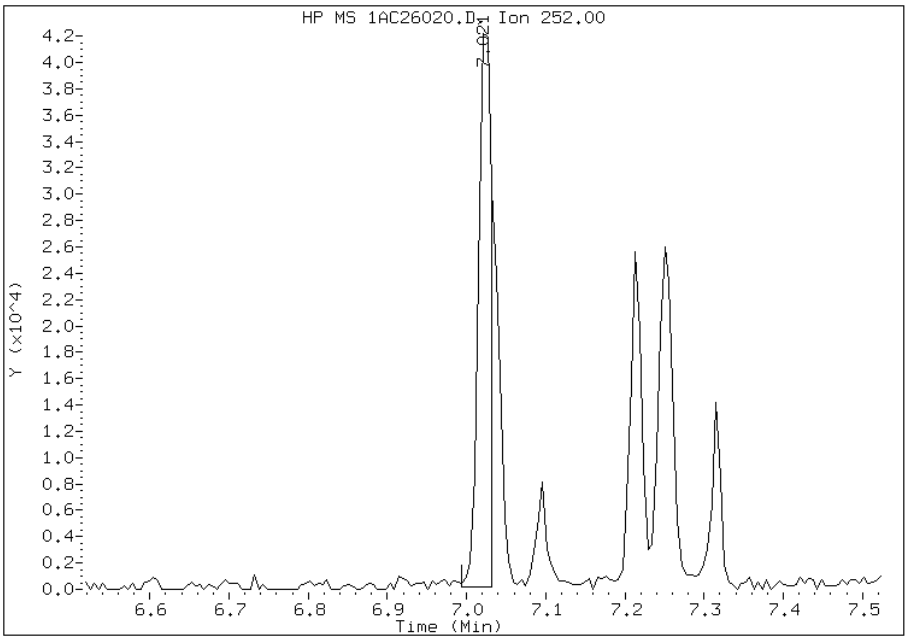
Manual Integration Results

RT: 7.02

Response: 47867

Amount: 5

Conc: 428



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC26020.D
Inj. Date and Time: 26-MAR-2013 17:38
Instrument ID: BSMA5973.i
Client ID: CV0865A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/28/2013

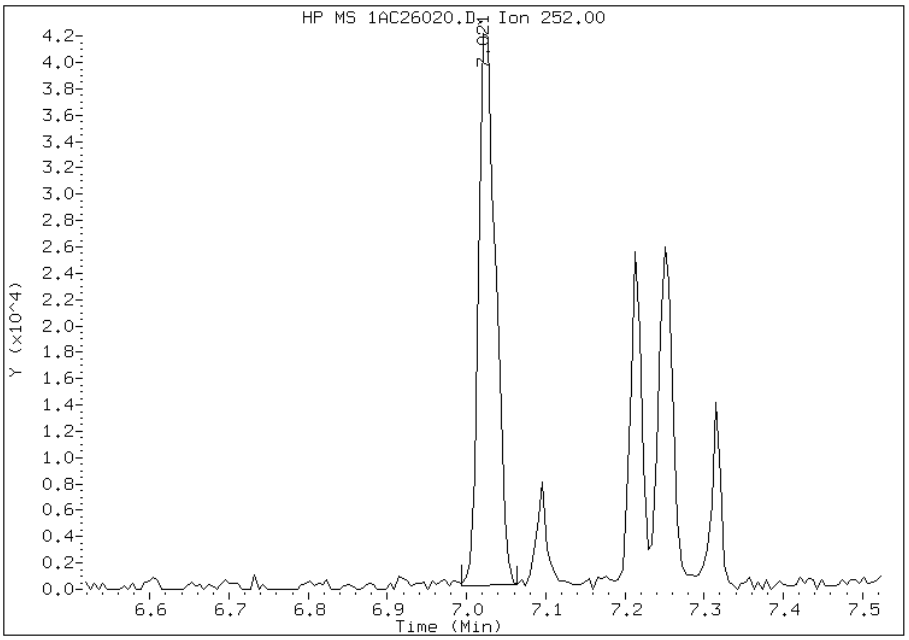
Processing Integration Results

RT: 7.02

Response: 62550

Amount: 5

Conc: 439



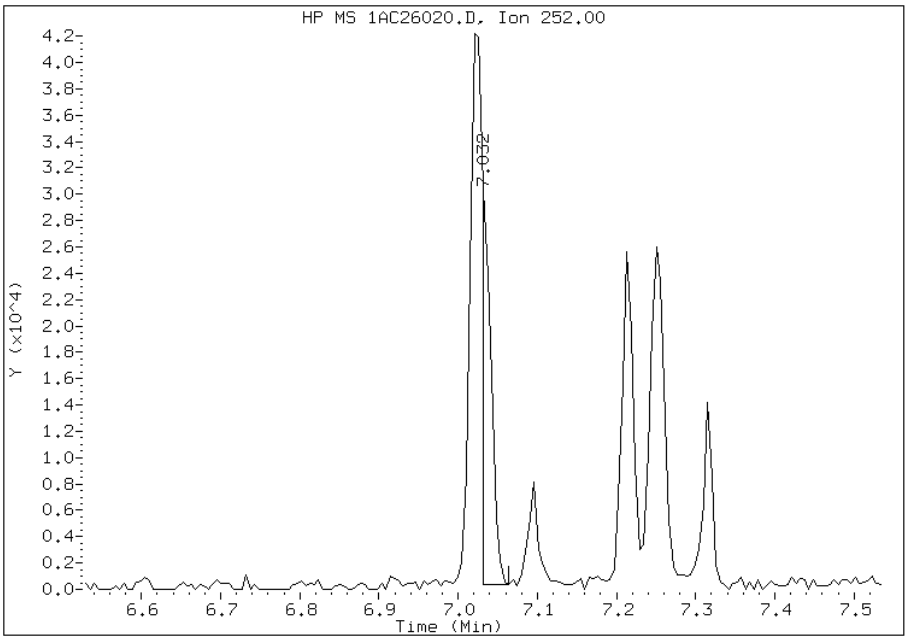
Manual Integration Results

RT: 7.03

Response: 24412

Amount: 2

Conc: 171



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC26020.D
Inj. Date and Time: 26-MAR-2013 17:38
Instrument ID: BSMA5973.i
Client ID: CV0865A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

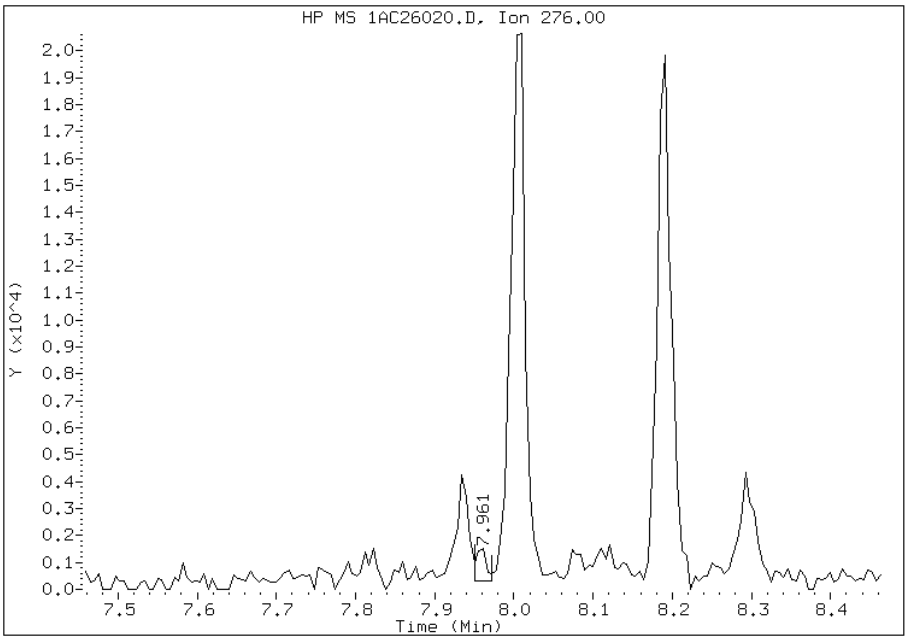
Processing Integration Results

RT: 7.96

Response: 1160

Amount: 0

Conc: 10



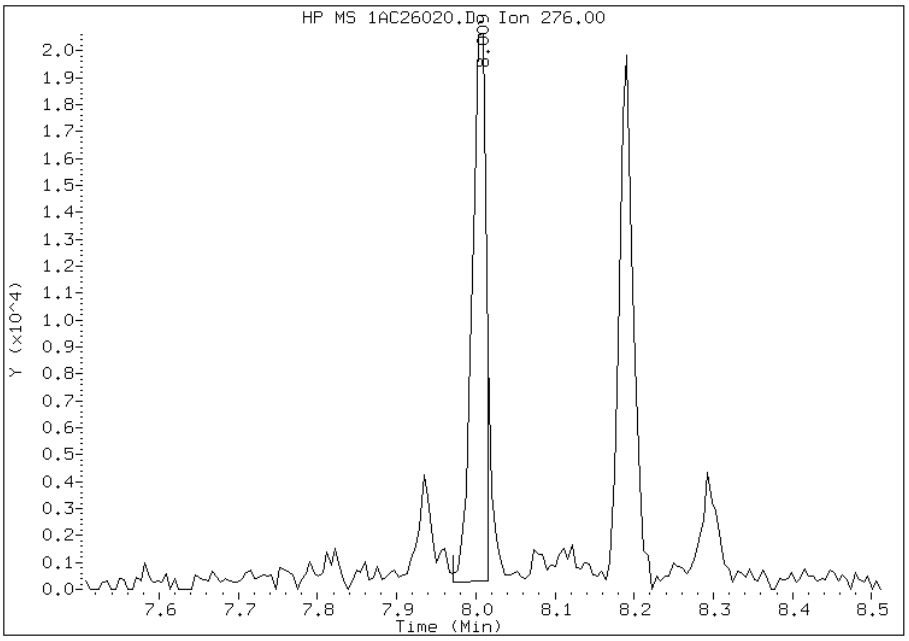
Manual Integration Results

RT: 8.01

Response: 24829

Amount: 3

Conc: 222



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0865B-CS-SP | Lab Sample ID: 680-88420-26

Matrix: Solid | Lab File ID: 1CC25012.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 13:22

Extract. Method: 3546 | Date Extracted: 03/22/2013 13:10

Sample wt/vol: 15.02(g) | Date Analyzed: 03/25/2013 15:20

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

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

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135753 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	36	J	48	6.0
120-12-7	Anthracene	33		10	5.0
56-55-3	Benzo[a]anthracene	260		9.6	4.7
50-32-8	Benzo[a]pyrene	280	F	12	6.2
205-99-2	Benzo[b]fluoranthene	450		15	7.3
191-24-2	Benzo[g,h,i]perylene	200		24	5.3
207-08-9	Benzo[k]fluoranthene	140		9.6	4.3
218-01-9	Chrysene	440		11	5.4
53-70-3	Dibenz(a,h)anthracene	68		24	4.9
206-44-0	Fluoranthene	490		24	4.8
86-73-7	Fluorene	17	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	140		24	8.5
90-12-0	1-Methylnaphthalene	450		48	5.3
91-57-6	2-Methylnaphthalene	450		48	8.5
91-20-3	Naphthalene	250		48	5.3
85-01-8	Phenanthrene	430		9.6	4.7
129-00-0	Pyrene	450		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\1CC25012.D
Lab Smp Id: 680-88420-A-26-A Client Smp ID: CV0865B-CS-SP
Inj Date : 25-MAR-2013 15:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88420-a-26-a
Misc Info : 680-88420-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\a-bFASTPAHi-m.m
Meth Date : 25-Mar-2013 12:48 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	16.634	% 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	3.733	3.733	(1.000)	782801	40.0000	
* 6 Acenaphthene-d10	164	4.821	4.821	(1.000)	655880	40.0000	
* 10 Phenanthrene-d10	188	5.768	5.768	(1.000)	1228523	40.0000	
$ 14 o-Terphenyl	230	6.021	6.021	(1.044)	138997	7.49366	598.4636
* 18 Chrysene-d12	240	7.709	7.715	(1.000)	1453619	40.0000	
* 23 Perylene-d12	264	8.898	8.898	(1.000)	1440771	40.0000	
2 Naphthalene	128	3.745	3.745	(1.003)	63478	3.11483	248.7586
3 2-Methylnaphthalene	142	4.169	4.174	(1.117)	76195	5.60510	447.6381
4 1-Methylnaphthalene	142	4.233	4.233	(1.134)	69519	5.61508	448.4353
5 Acenaphthylene	152	4.733	4.733	(0.982)	11887	0.44953	35.9008
9 Fluorene	166	5.163	5.162	(1.071)	4351	0.20932	16.7170(Q)
11 Phenanthrene	178	5.780	5.786	(1.002)	191293	5.38498	430.0583
12 Anthracene	178	5.815	5.821	(1.008)	14460	0.41621	33.2399
13 Carbazole	167	5.927	5.927	(1.028)	18826	0.60959	48.6835

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.621	6.621	(1.148)	239451	6.15516	491.5672
16 Pyrene	202	6.786	6.792	(0.880)	221492	5.66999	452.8201
17 Benzo(a)anthracene	228	7.704	7.703	(0.999)	137471	3.27669	261.6848
19 Chrysene	228	7.727	7.733	(1.002)	231767	5.52013	440.8522
20 Benzo(b)fluoranthene	252	8.545	8.550	(0.960)	214259	5.69040	454.4503(M)
21 Benzo(k)fluoranthene	252	8.568	8.574	(0.963)	68388	1.77053	141.3987(M)
22 Benzo(a)pyrene	252	8.839	8.845	(0.993)	130438	3.56650	284.8300
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.062	(1.130)	62121	1.80558	144.1986(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.080	(1.132)	28856	0.85746	68.4790
26 Benzo(g,h,i)perylene	276	10.409	10.415	(1.170)	89202	2.47849	197.9387

QC Flag Legend

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

Data File: 1CC25012.D

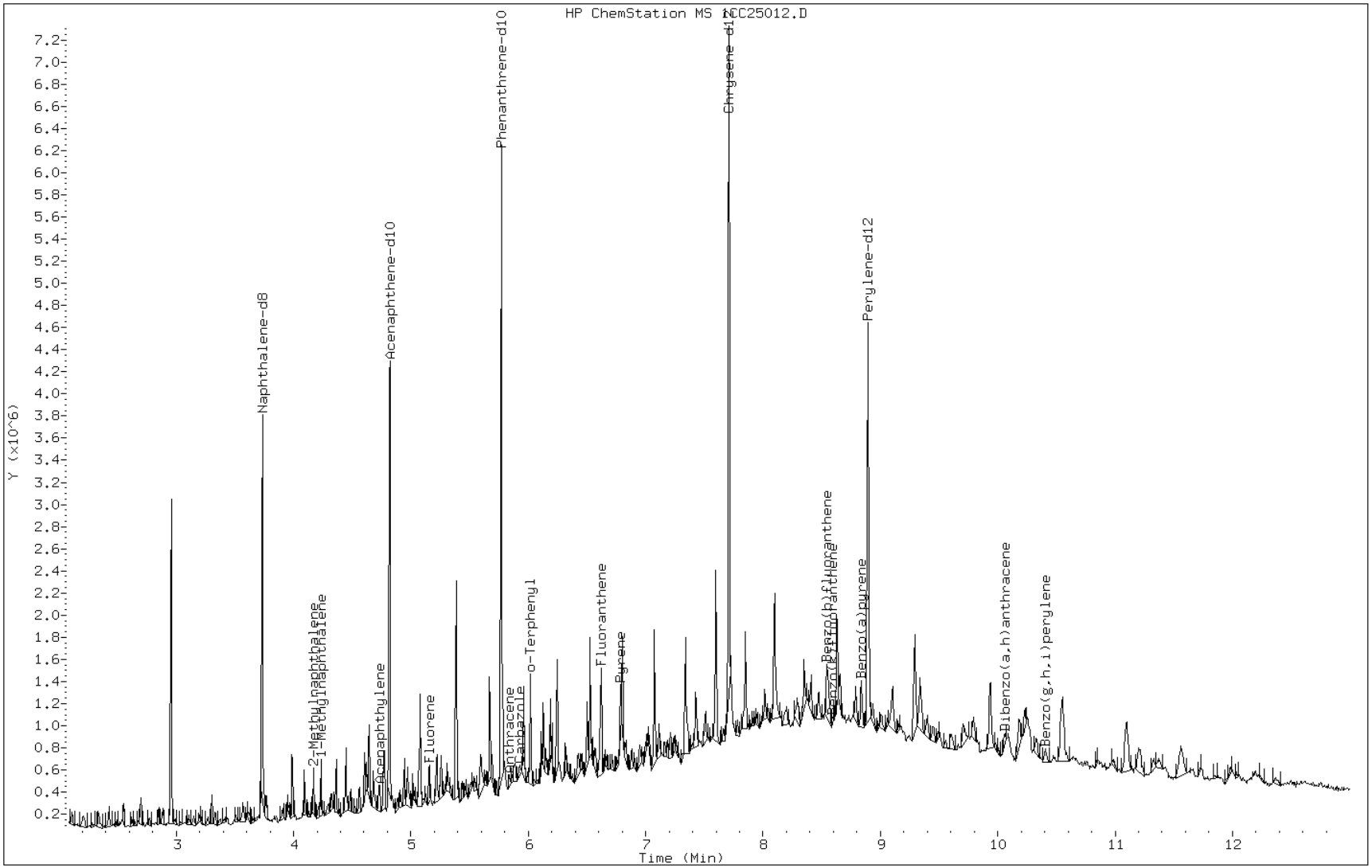
Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a

Operator: SCC



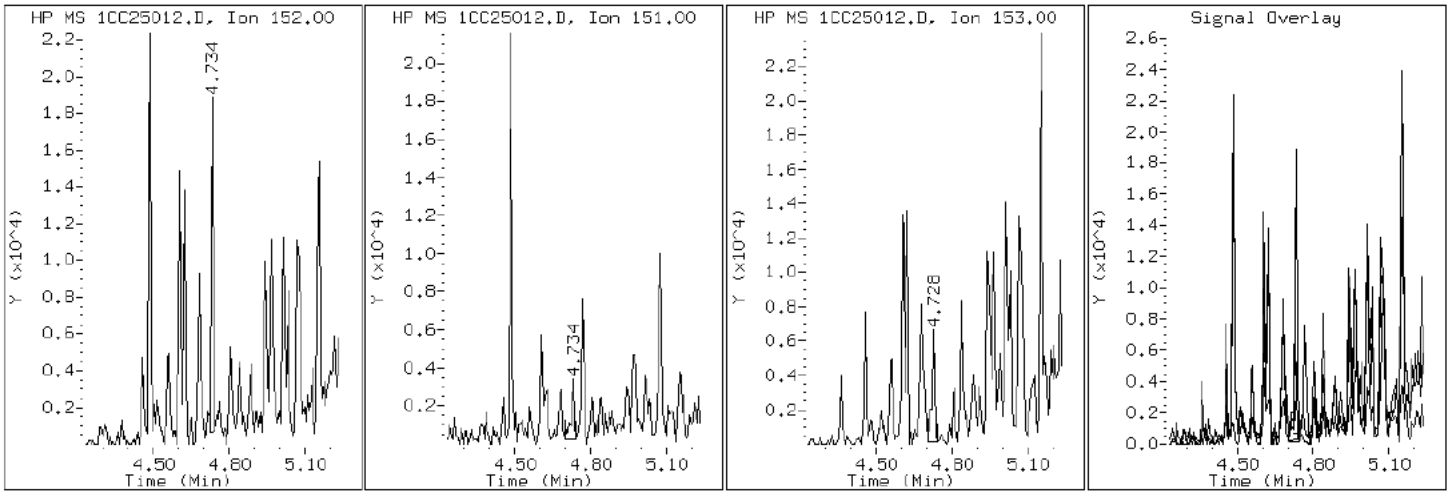
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

5 Acenaphthylene



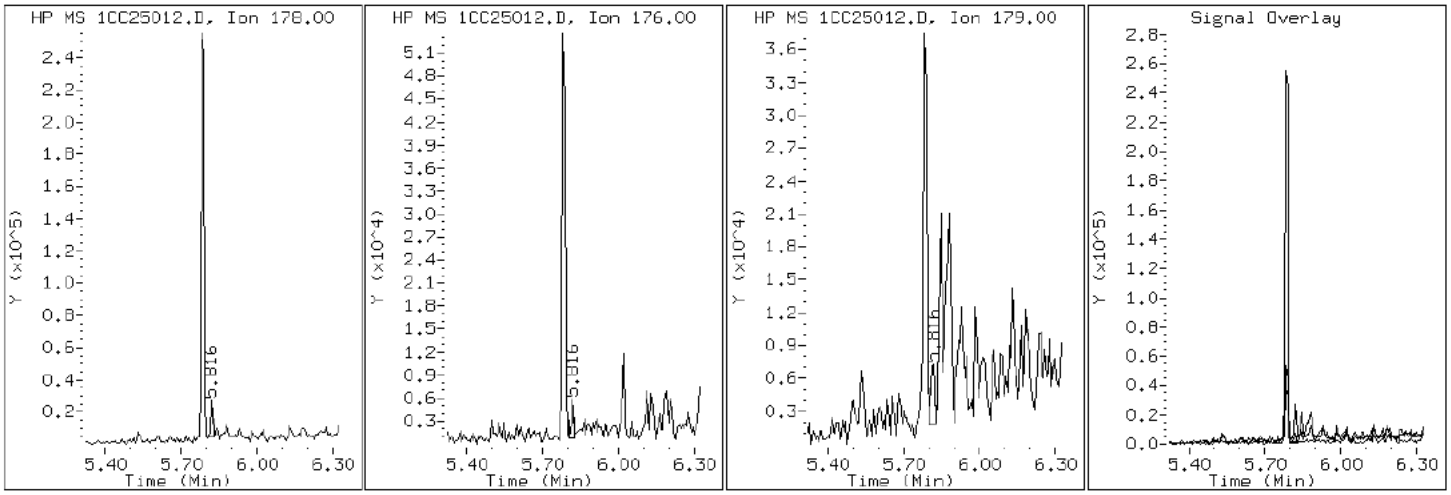
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

12 Anthracene



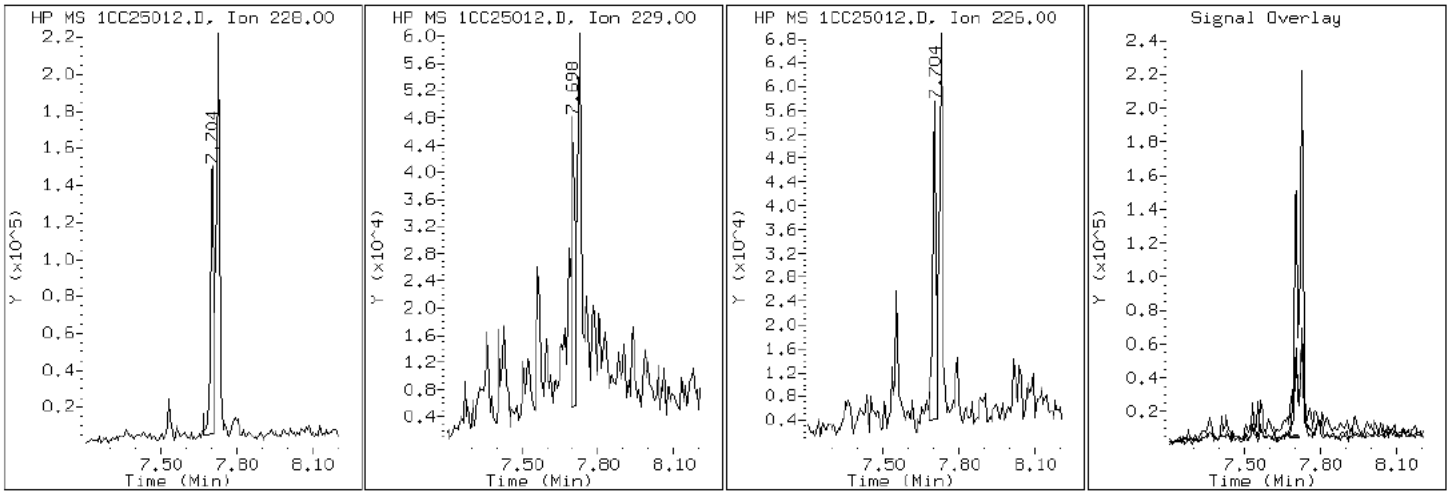
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

17 Benzo(a)anthracene



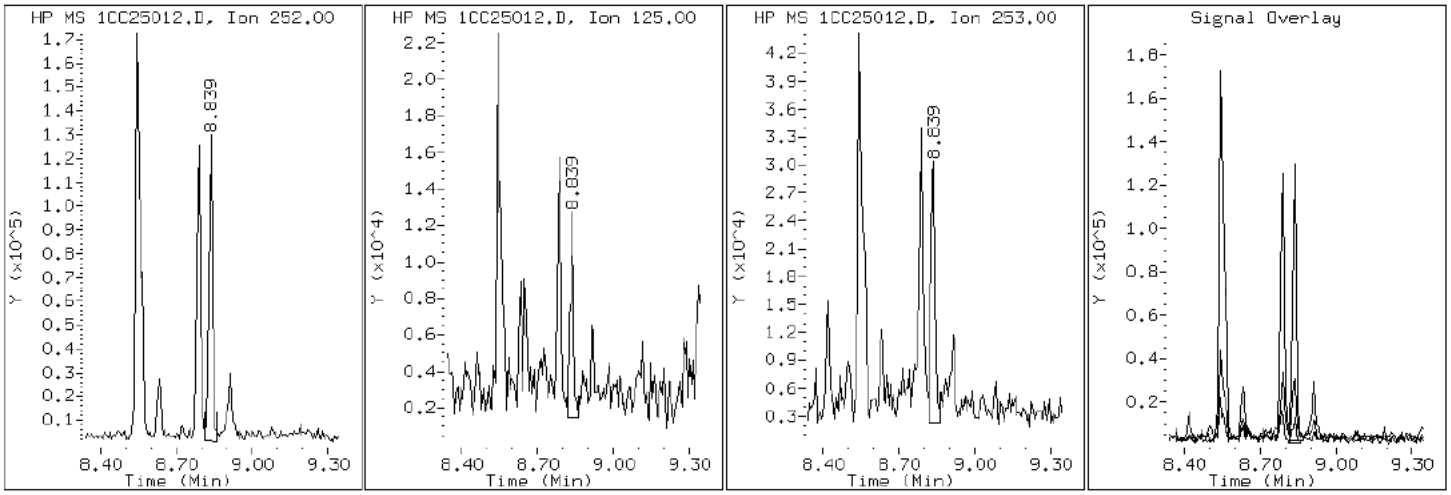
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

22 Benzo(a)pyrene



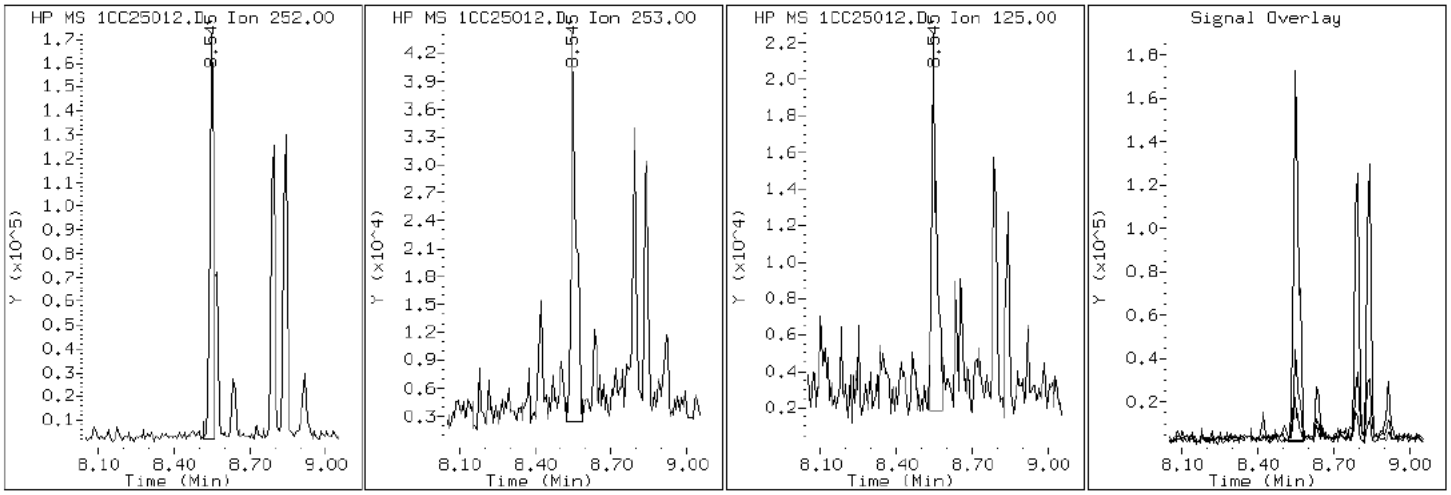
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

20 Benzo(b)fluoranthene



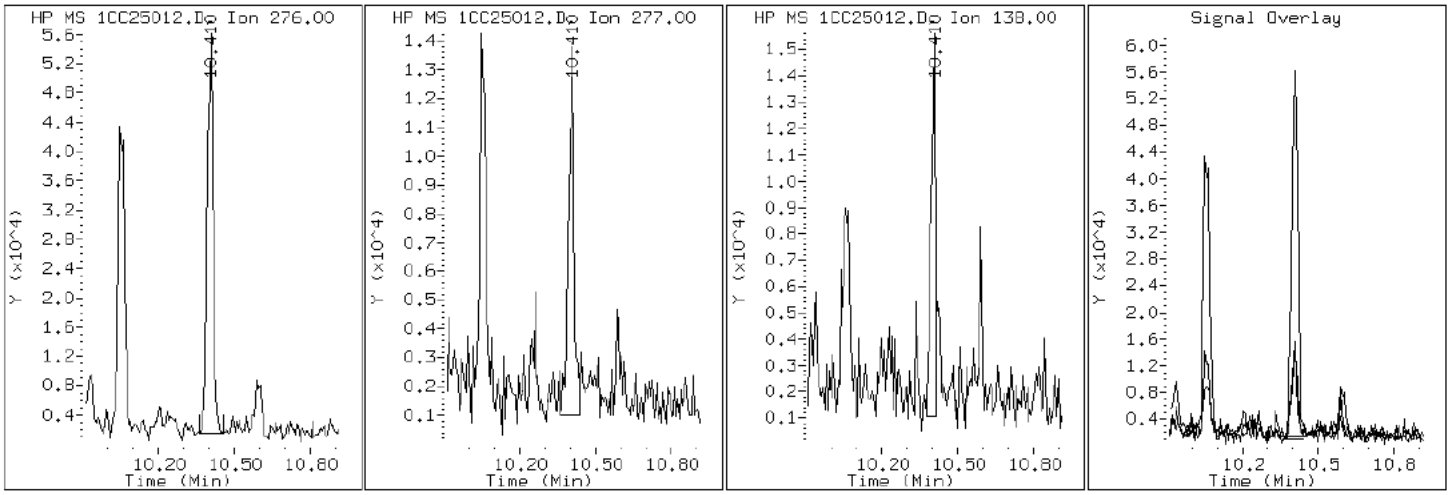
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

26 Benzo(g,h,i)perylene



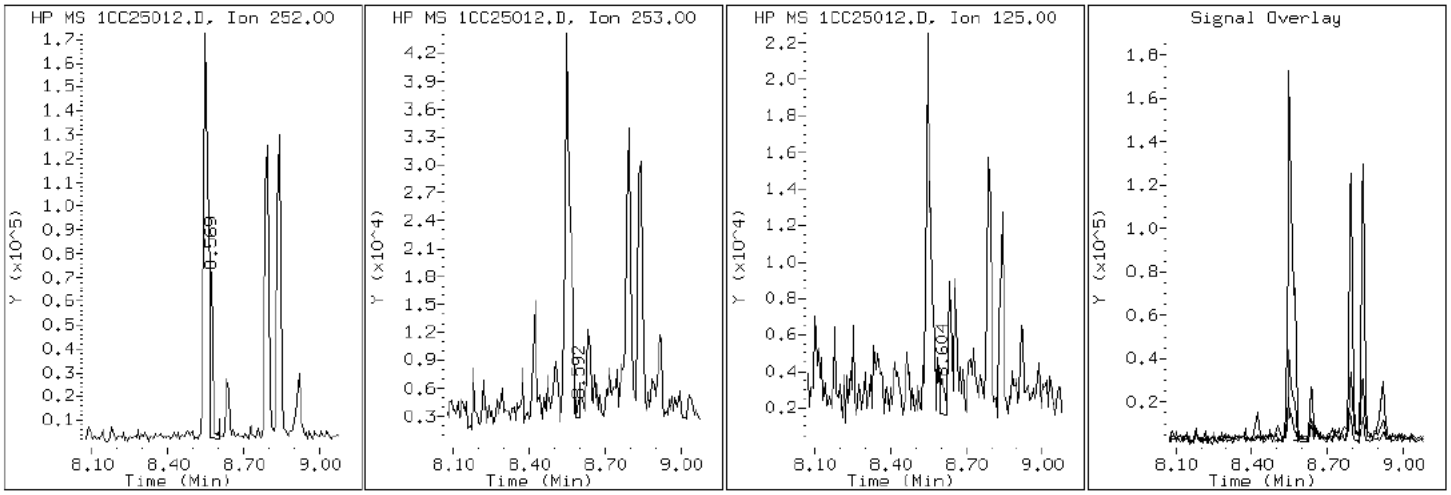
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

21 Benzo(k)fluoranthene



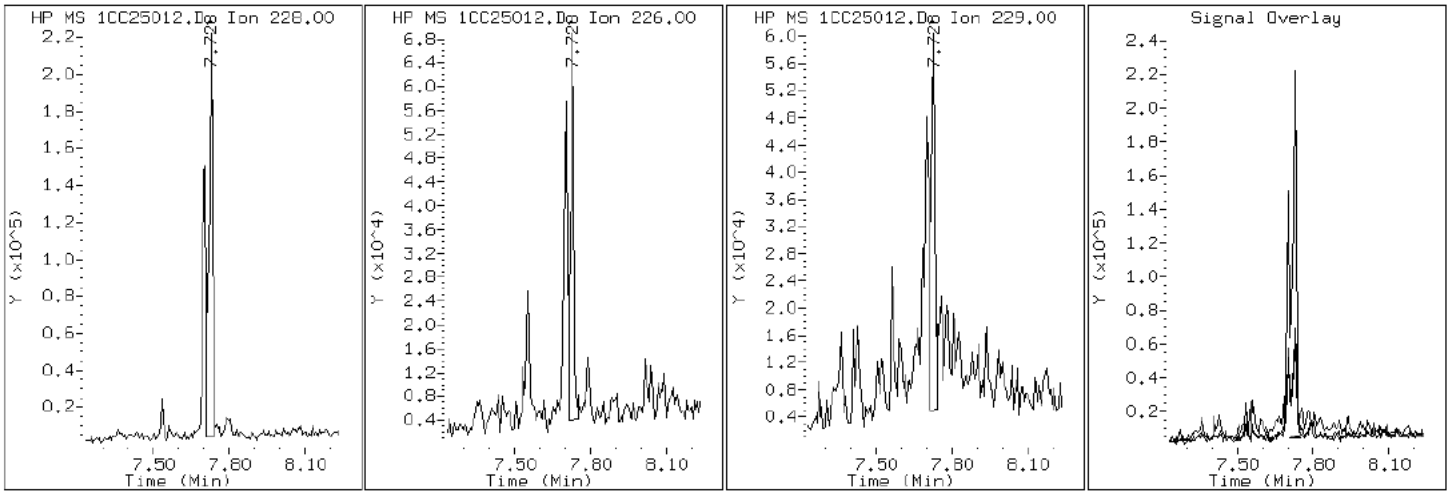
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

19 Chrysene



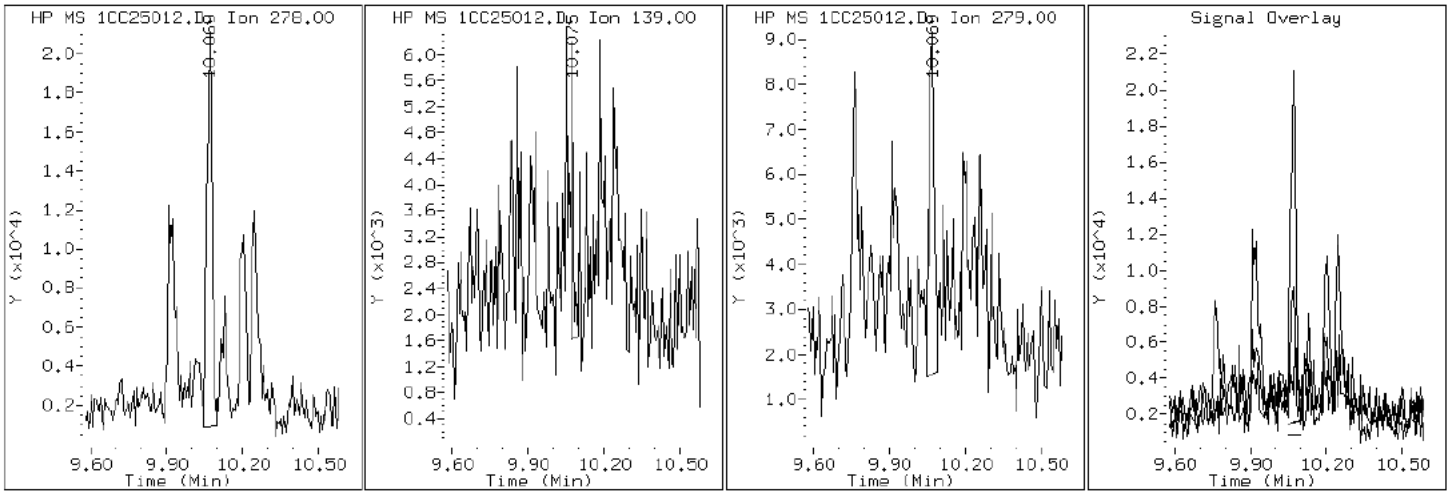
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

25 Dibenzo(a,h)anthracene



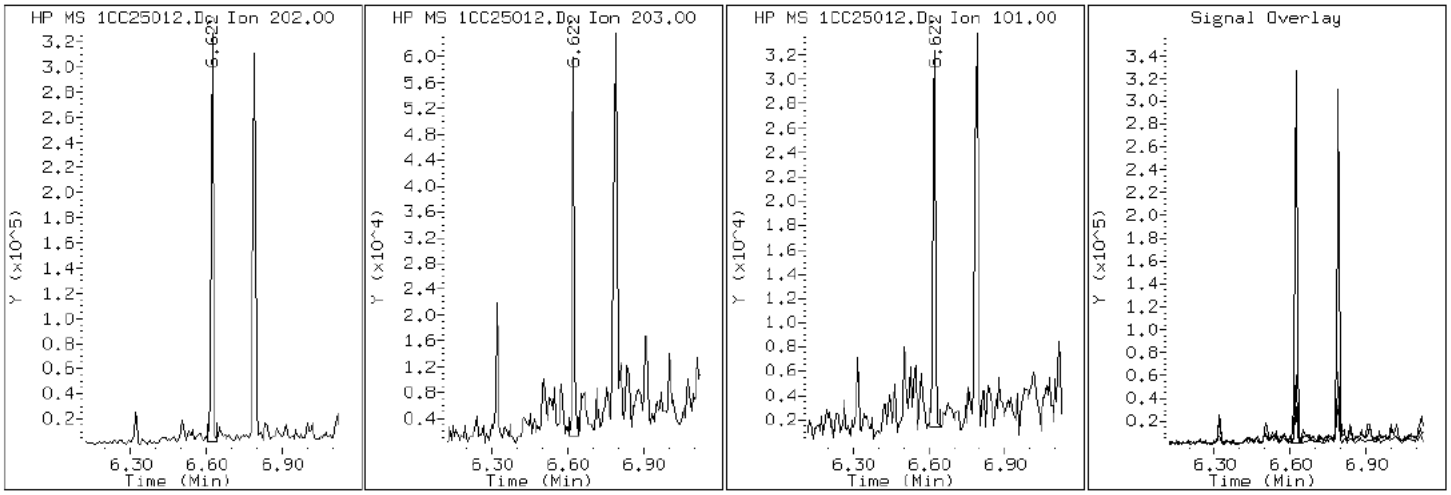
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

15 Fluoranthene



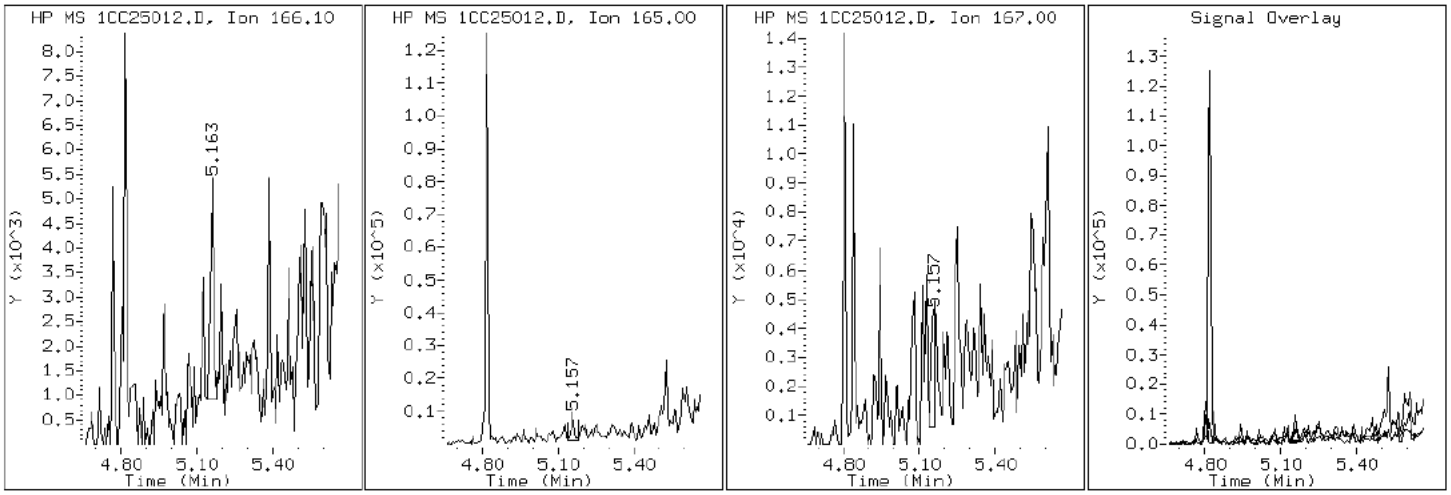
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

9 Fluorene



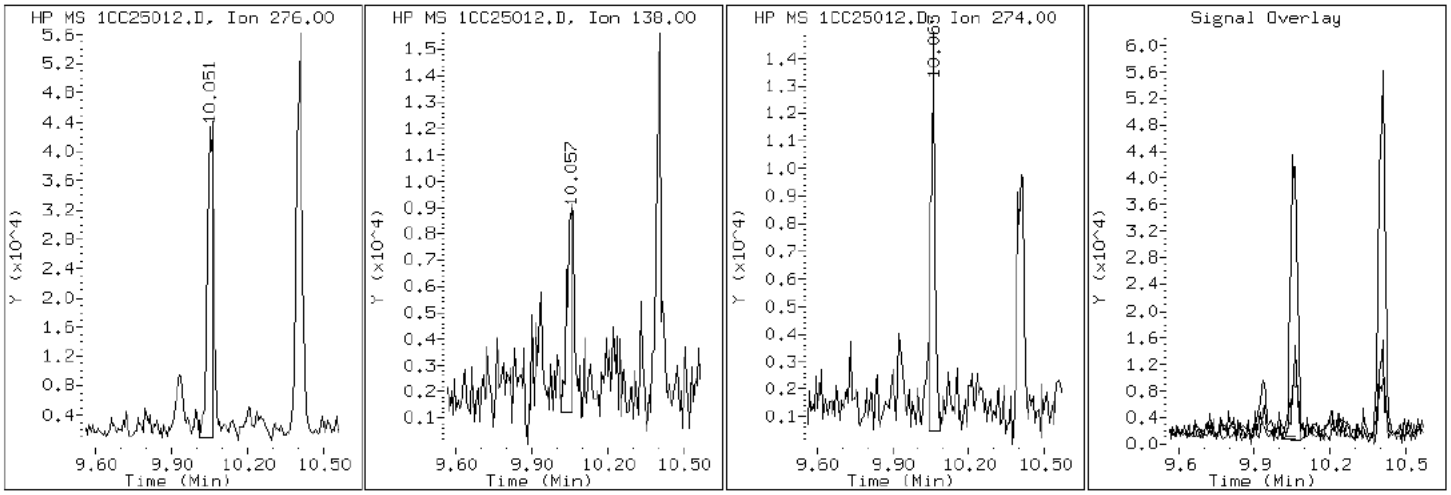
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

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



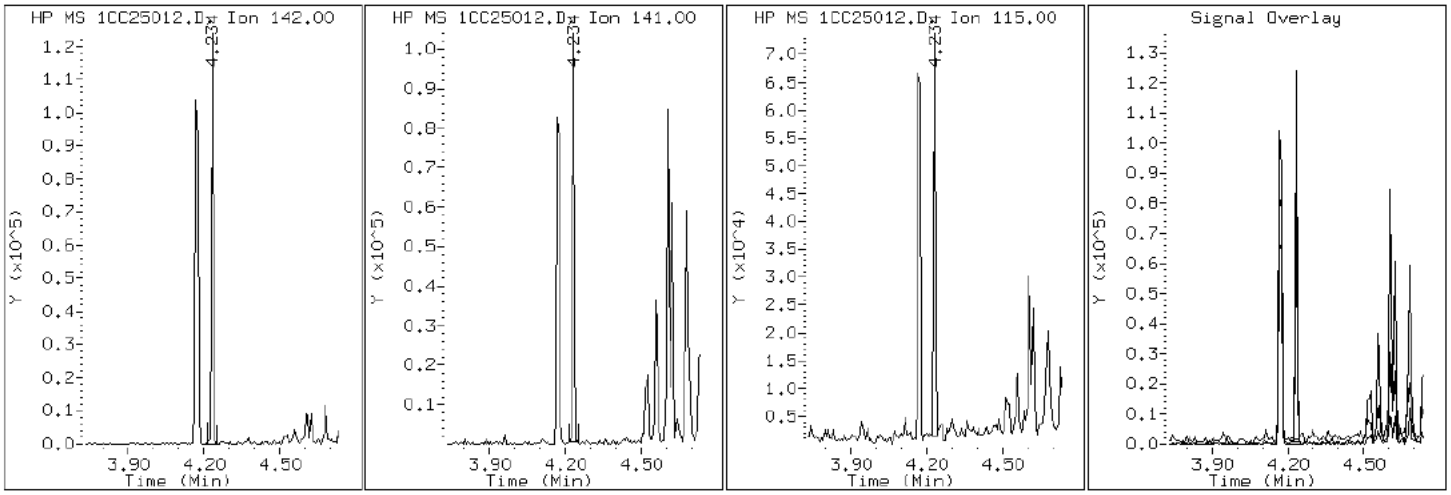
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

4 1-Methylnaphthalene



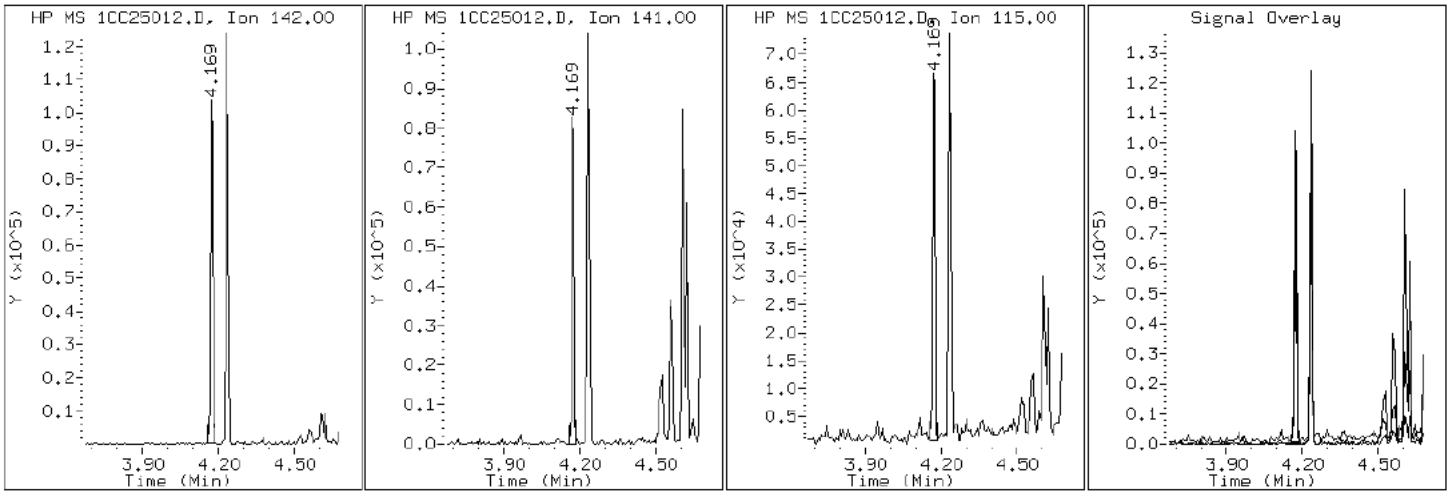
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

3 2-Methylnaphthalene



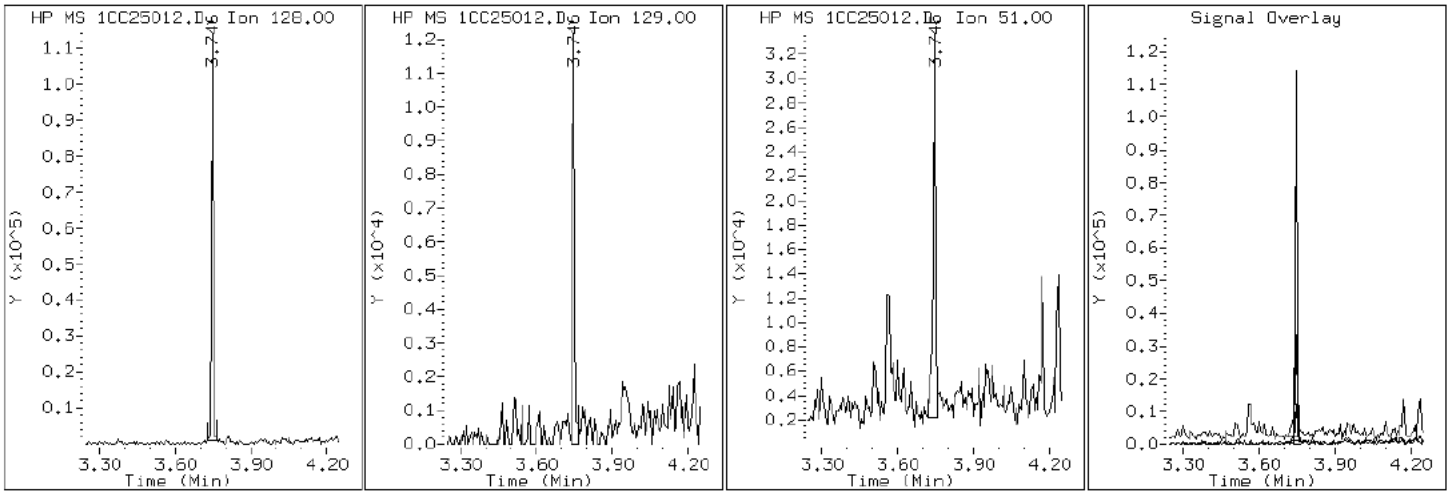
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

2 Naphthalene



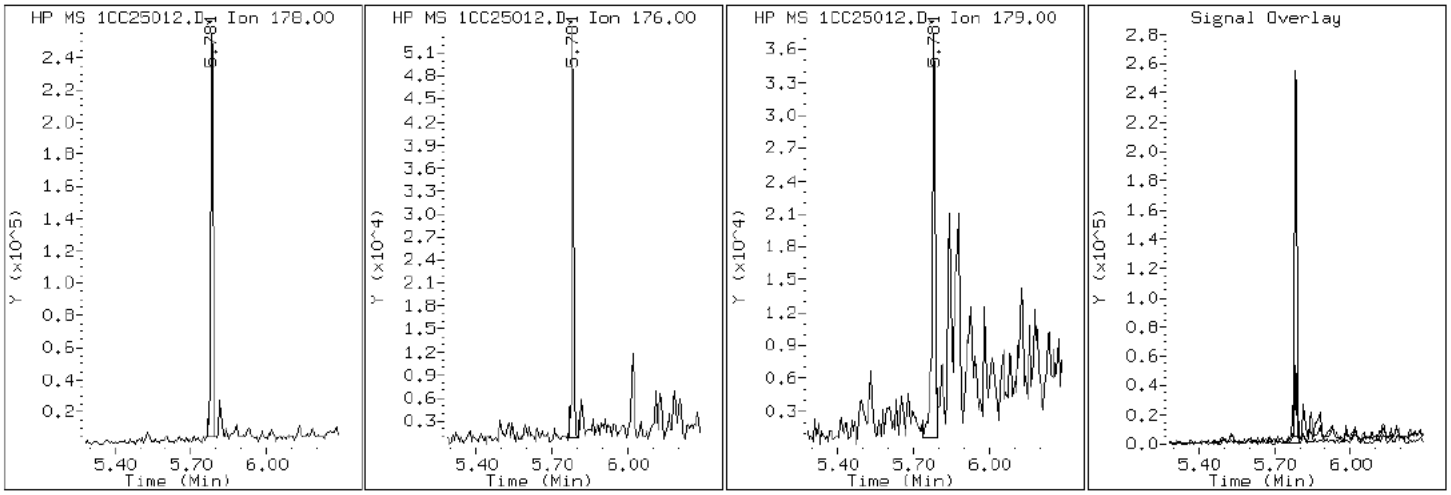
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

11 Phenanthrene



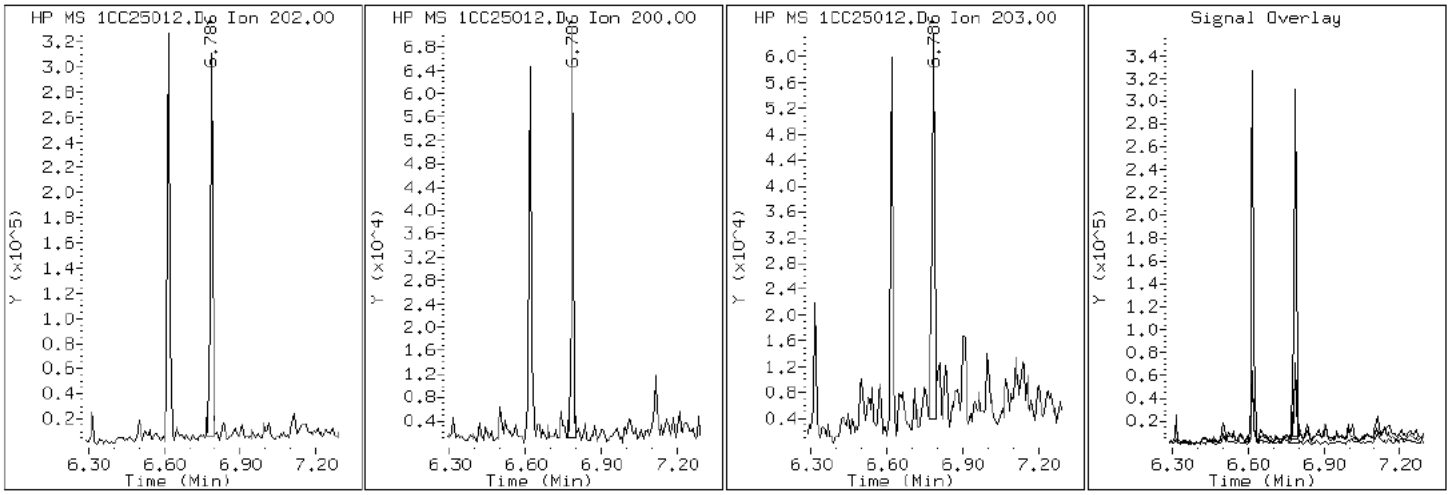
Data File: 1CC25012.D

Date: 25-MAR-2013 15:20

Client ID: CV0865B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC25012.D
Inj. Date and Time: 25-MAR-2013 15:20
Instrument ID: BSMC5973.i
Client ID: CV0865B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/25/2013

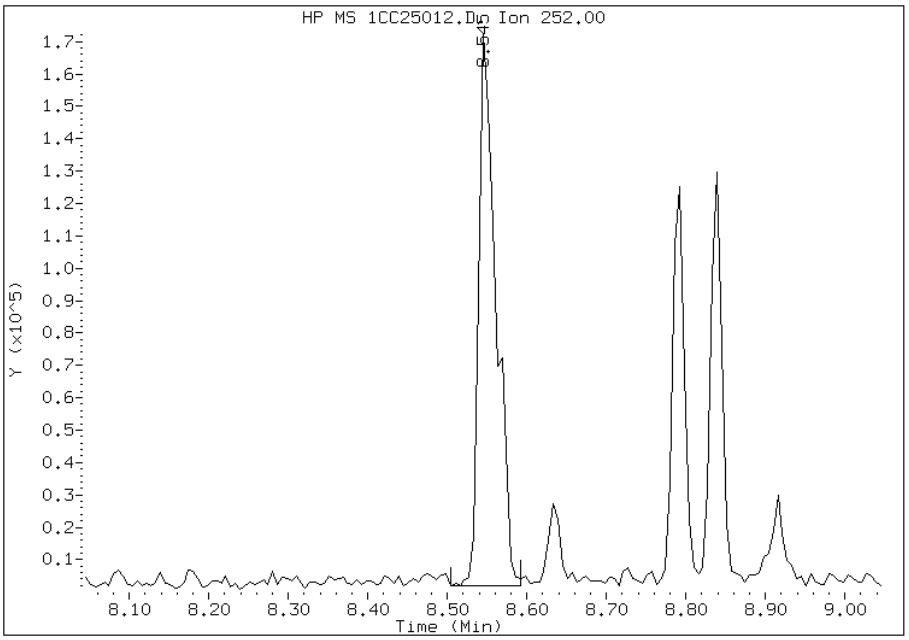
Processing Integration Results

RT: 8.55

Response: 258131

Amount: 7

Conc: 548



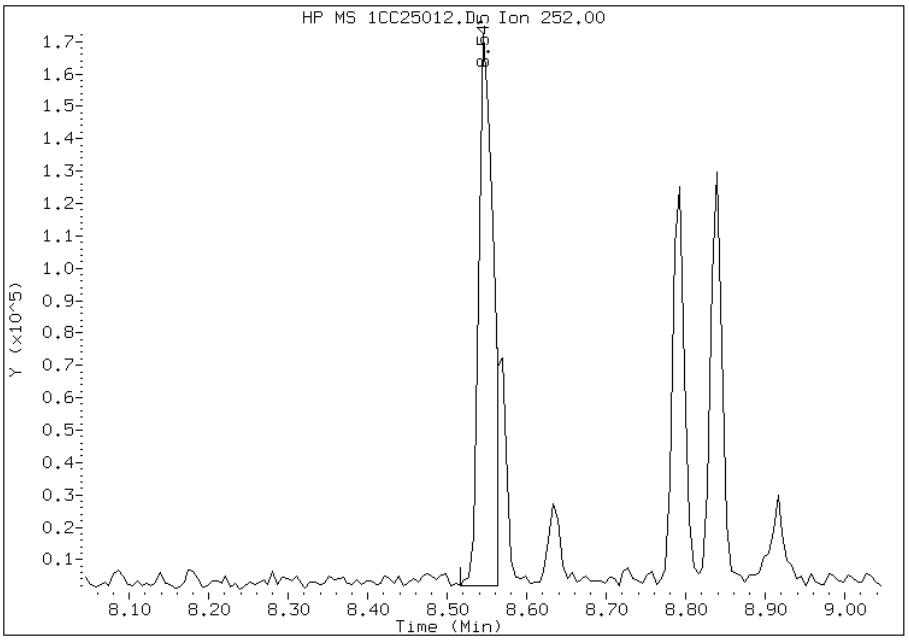
Manual Integration Results

RT: 8.55

Response: 214259

Amount: 6

Conc: 454



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 16:07
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC25012.D
Inj. Date and Time: 25-MAR-2013 15:20
Instrument ID: BSMC5973.i
Client ID: CV0865B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

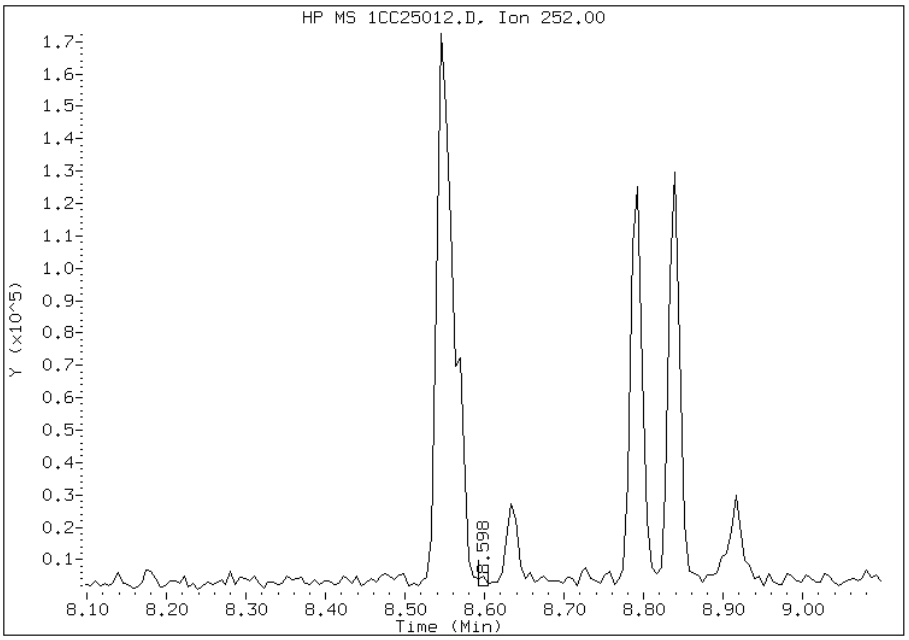
Processing Integration Results

RT: 8.60

Response: 2113

Amount: 0

Conc: 4



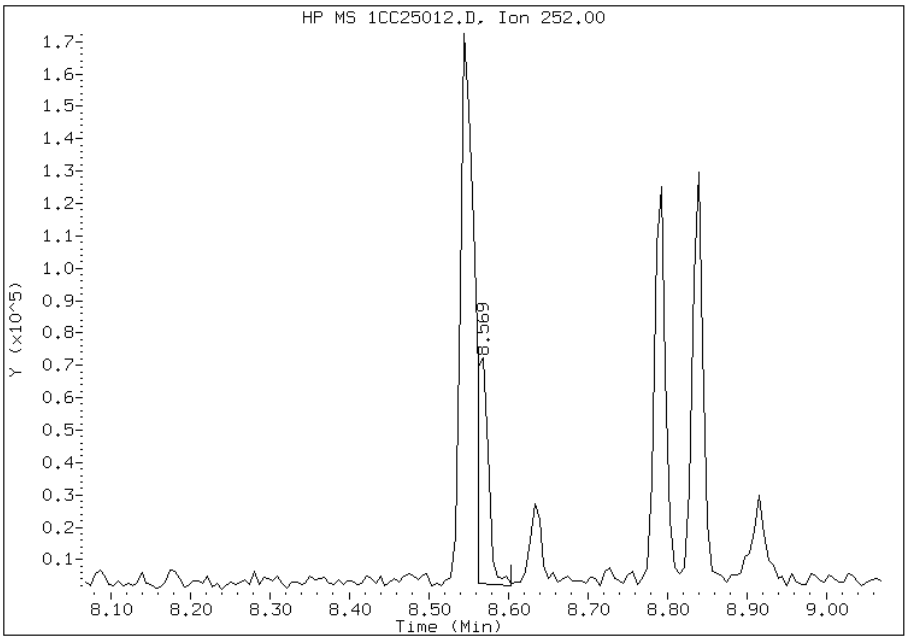
Manual Integration Results

RT: 8.57

Response: 68388

Amount: 2

Conc: 141



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 16:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC25012.D
Inj. Date and Time: 25-MAR-2013 15:20
Instrument ID: BSMC5973.i
Client ID: CV0865B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

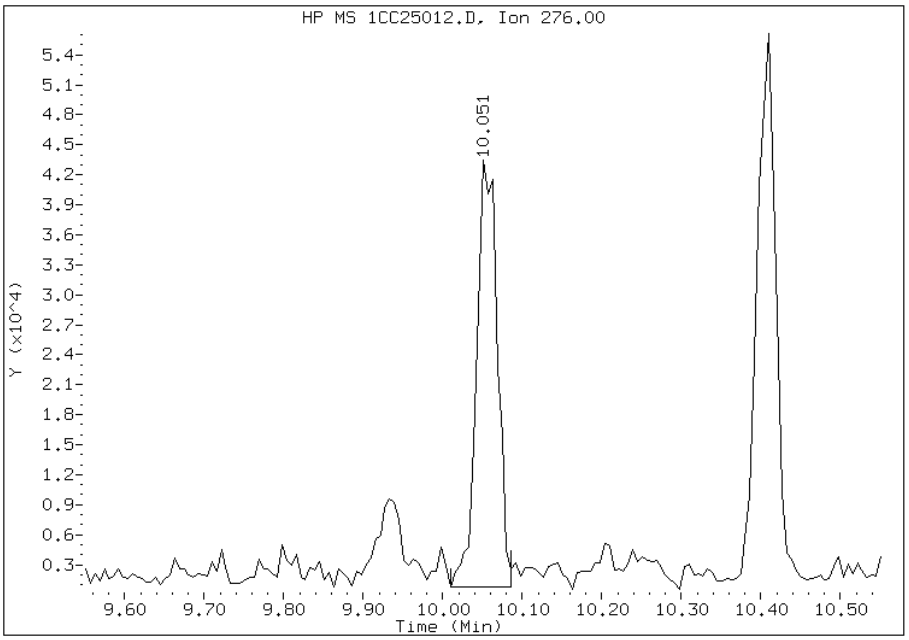
Processing Integration Results

RT: 10.05

Response: 77132

Amount: 2

Conc: 179



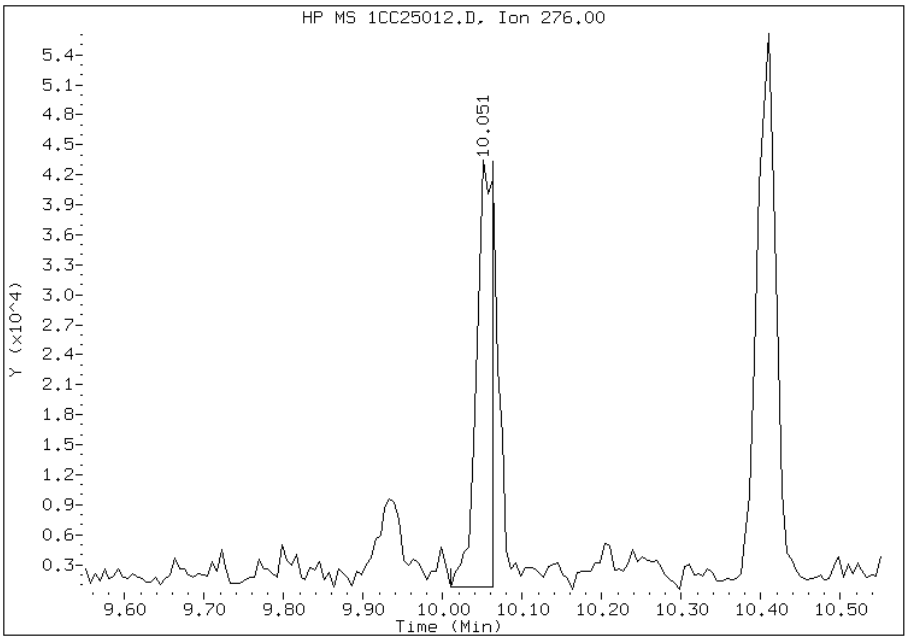
Manual Integration Results

RT: 10.05

Response: 62121

Amount: 2

Conc: 144



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 16:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0770A-CS-SP | Lab Sample ID: 680-88420-27

Matrix: Solid | Lab File ID: 1CC27035.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 13:50

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 15.14(g) | Date Analyzed: 03/27/2013 20:34

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

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

% Moisture: 20.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135830 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	68		50	6.2
120-12-7	Anthracene	52		10	5.2
56-55-3	Benzo[a]anthracene	330		10	4.9
50-32-8	Benzo[a]pyrene	350		13	6.5
205-99-2	Benzo[b]fluoranthene	480		15	7.6
191-24-2	Benzo[g,h,i]perylene	260		25	5.5
207-08-9	Benzo[k]fluoranthene	240		10	4.5
218-01-9	Chrysene	370		11	5.6
53-70-3	Dibenz(a,h)anthracene	79		25	5.1
206-44-0	Fluoranthene	510		25	5.0
86-73-7	Fluorene	26		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	200		25	8.9
90-12-0	1-Methylnaphthalene	110		50	5.5
91-57-6	2-Methylnaphthalene	170		50	8.9
91-20-3	Naphthalene	120		50	5.5
85-01-8	Phenanthrene	330		10	4.9
129-00-0	Pyrene	480		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27035.D
Lab Smp Id: 680-88420-A-27-A Client Smp ID: CV0770A-CS-SP
Inj Date : 27-MAR-2013 20:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88420-a-27-a
Misc Info : 680-88420-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	20.661	% 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	3.727	3.727	(1.000)	796209	40.0000	
* 6 Acenaphthene-d10	164	4.815	4.815	(1.000)	635182	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.762	(1.000)	1092320	40.0000	
$ 14 o-Terphenyl	230	6.015	6.015	(1.044)	135986	8.24549	686.4432
* 18 Chrysene-d12	240	7.709	7.704	(1.000)	1138971	40.0000	
* 23 Perylene-d12	264	8.892	8.886	(1.000)	1087884	40.0000	
2 Naphthalene	128	3.739	3.739	(1.003)	29552	1.42568	118.6891
3 2-Methylnaphthalene	142	4.168	4.168	(1.118)	28782	2.08162	173.2968
4 1-Methylnaphthalene	142	4.227	4.227	(1.134)	17216	1.36713	113.8144
5 Acenaphthylene	152	4.733	4.727	(0.983)	20837	0.81367	67.7389
9 Fluorene	166	5.157	5.157	(1.071)	6377	0.31679	26.3729(Q)
11 Phenanthrene	178	5.780	5.780	(1.003)	125358	3.96890	330.4140
12 Anthracene	178	5.815	5.815	(1.009)	19248	0.62311	51.8747
13 Carbazole	167	5.921	5.921	(1.028)	15256	0.55559	46.2533

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.615	6.615	(1.148)	210212	6.07734	505.9433
16 Pyrene	202	6.786	6.786	(0.880)	176827	5.77711	480.9489
17 Benzo(a)anthracene	228	7.698	7.698	(0.998)	132228	4.02240	334.8679
19 Chrysene	228	7.727	7.727	(1.002)	145241	4.41494	367.5473
20 Benzo(b)fluoranthene	252	8.545	8.539	(0.961)	165206	5.81088	483.7604(M)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.963)	84188	2.88659	240.3106(QM)
22 Benzo(a)pyrene	252	8.833	8.833	(0.993)	117236	4.24533	353.4270
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.130)	63046	2.42688	202.0400(M)
25 Dibenzo(a,h)anthracene	278	10.062	10.068	(1.132)	23990	0.94411	78.5975
26 Benzo(g,h,i)perylene	276	10.403	10.397	(1.170)	86012	3.16508	263.4949

QC Flag Legend

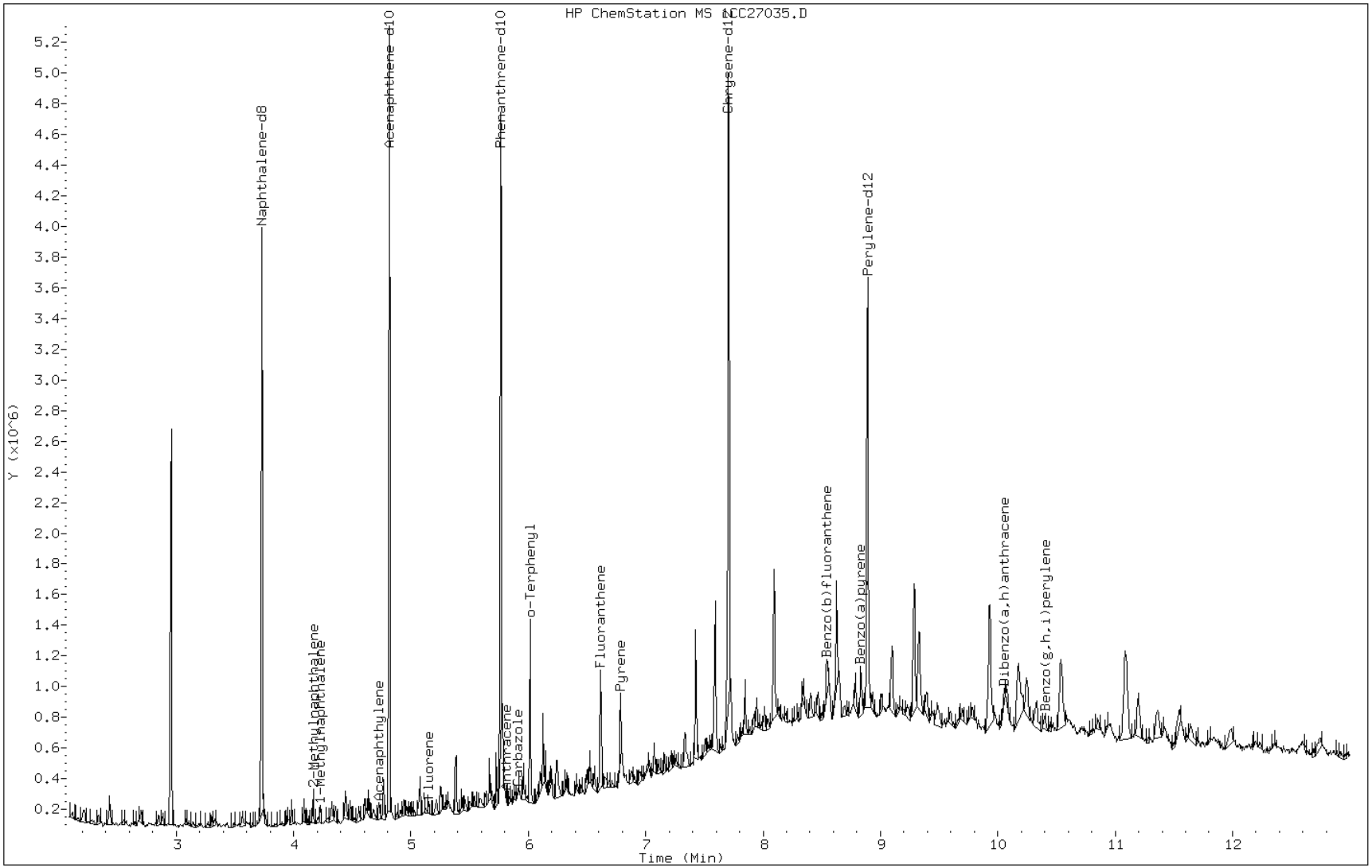
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC



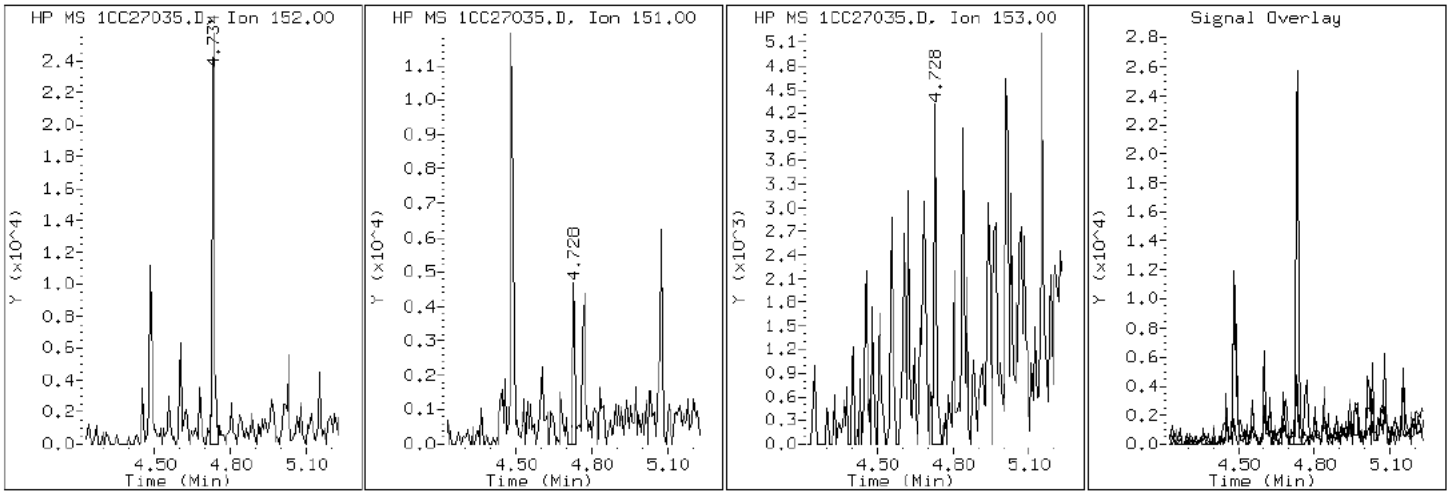
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

5 Acenaphthylene



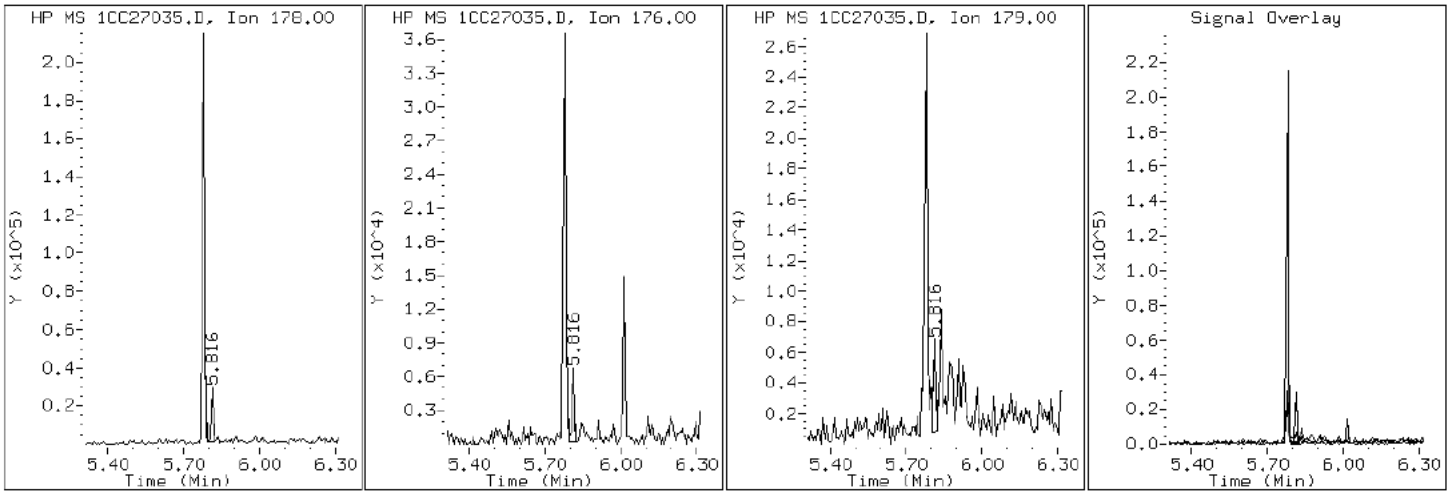
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

12 Anthracene



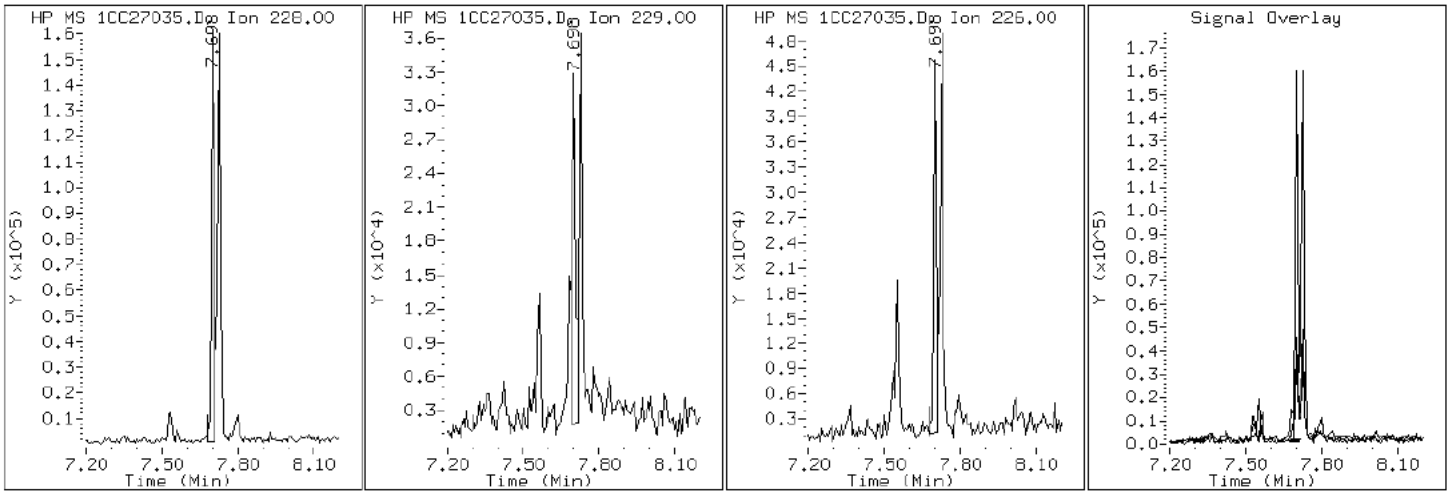
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

17 Benzo(a)anthracene



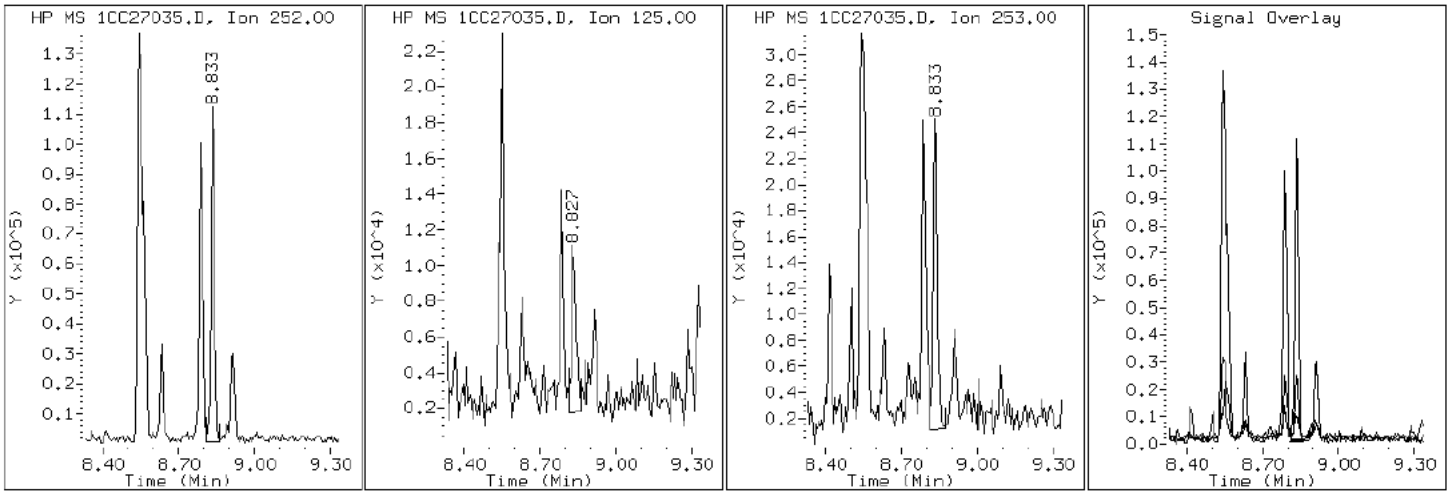
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

22 Benzo(a)pyrene



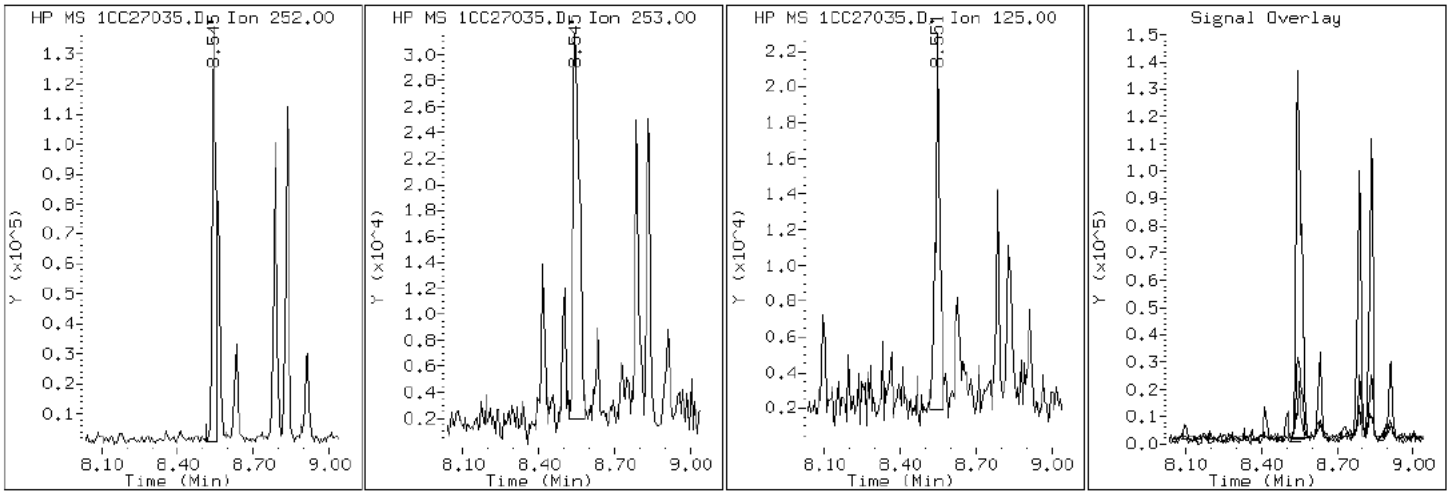
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

20 Benzo(b)fluoranthene



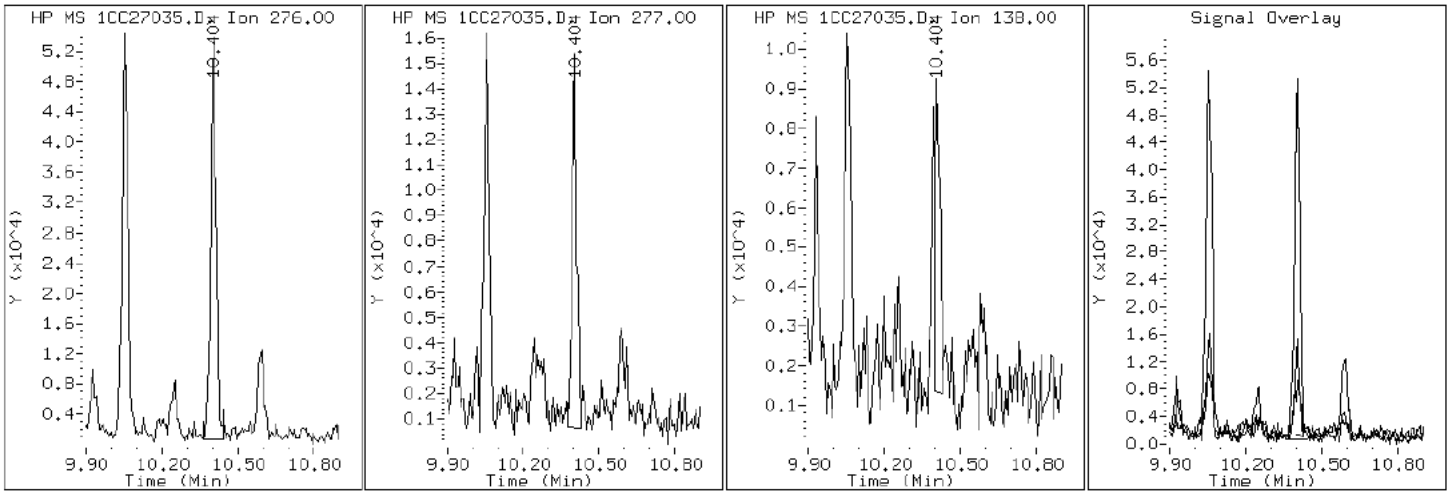
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

26 Benzo(g,h,i)perylene



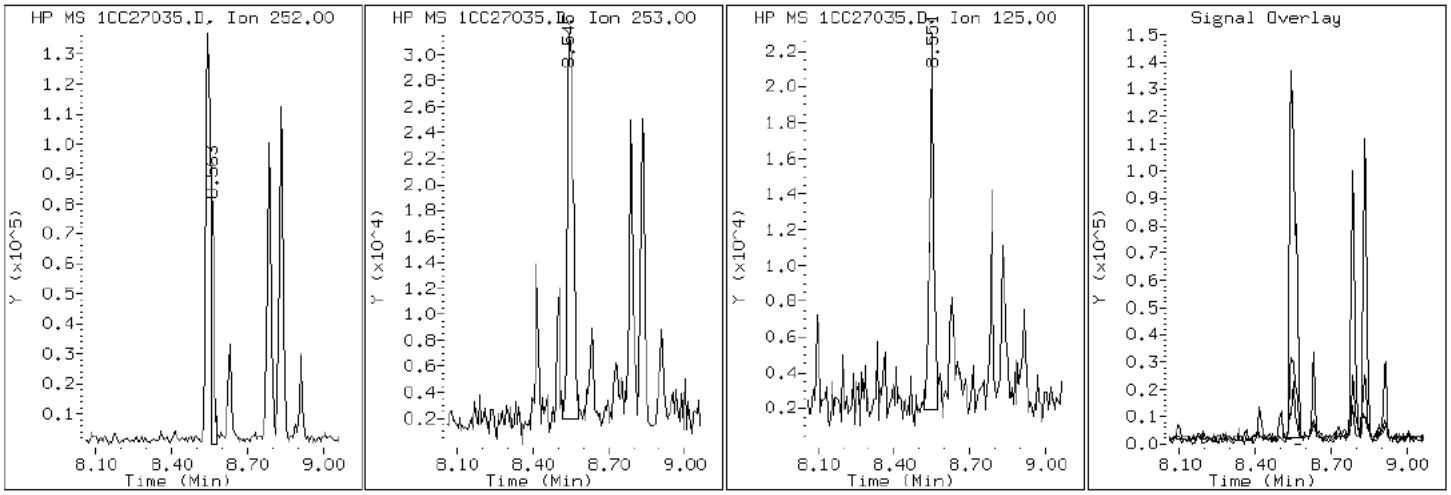
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

21 Benzo(k)fluoranthene



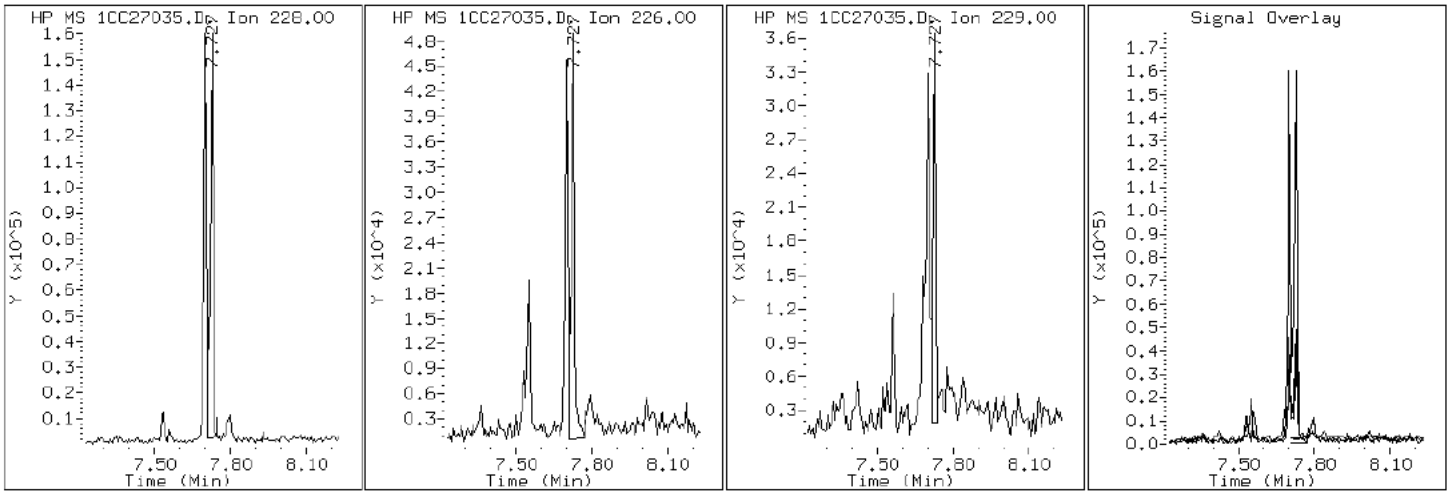
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

19 Chrysene



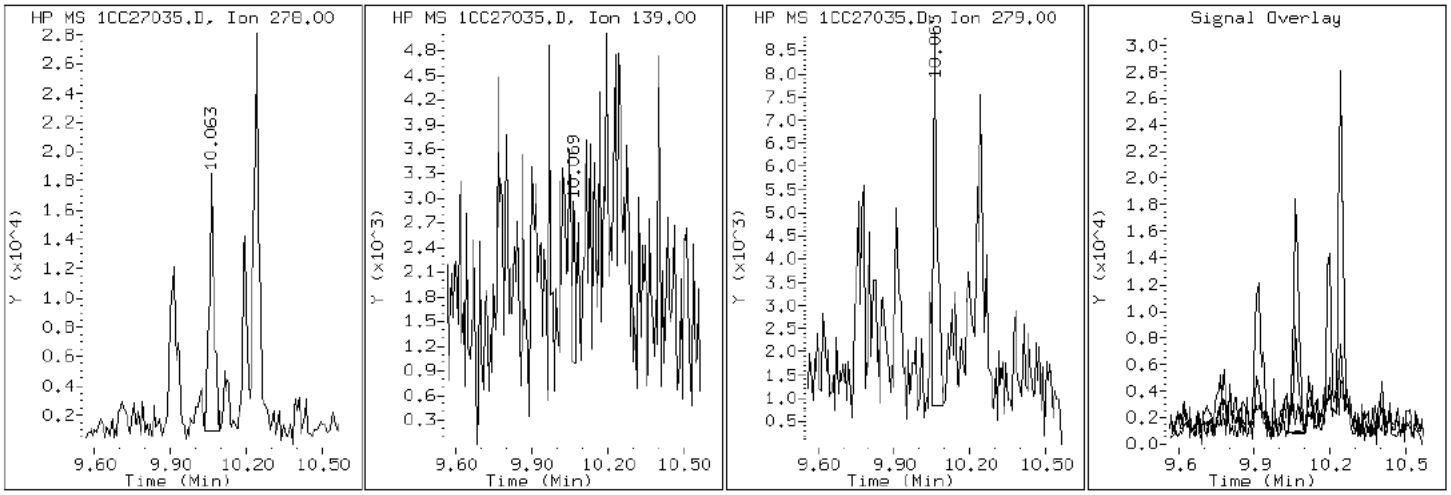
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

25 Dibenzo(a,h)anthracene



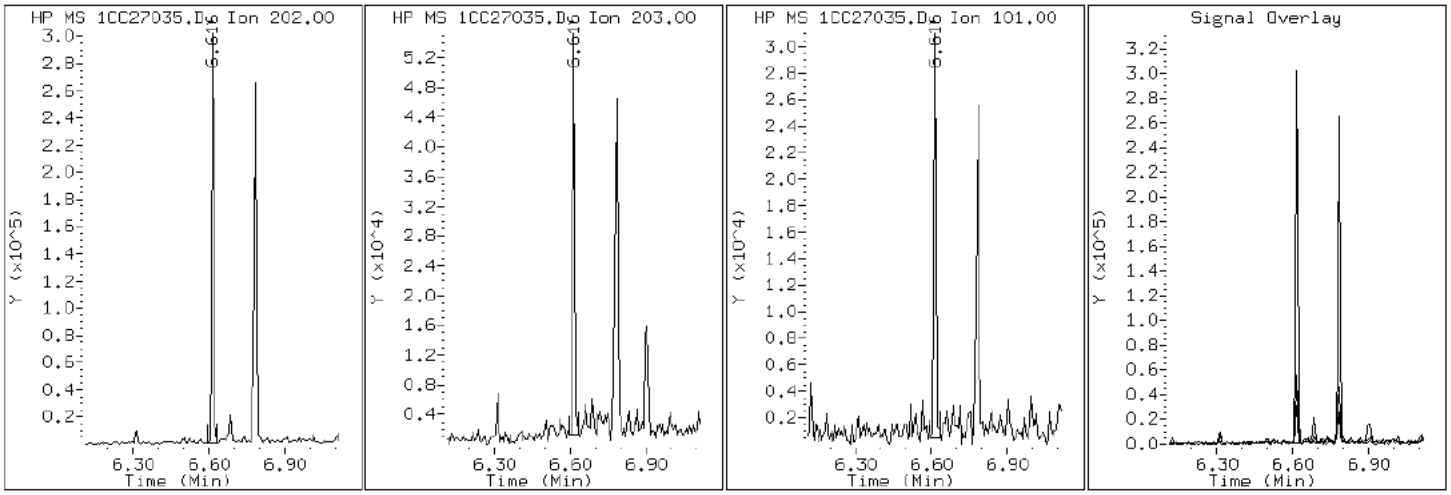
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

15 Fluoranthene



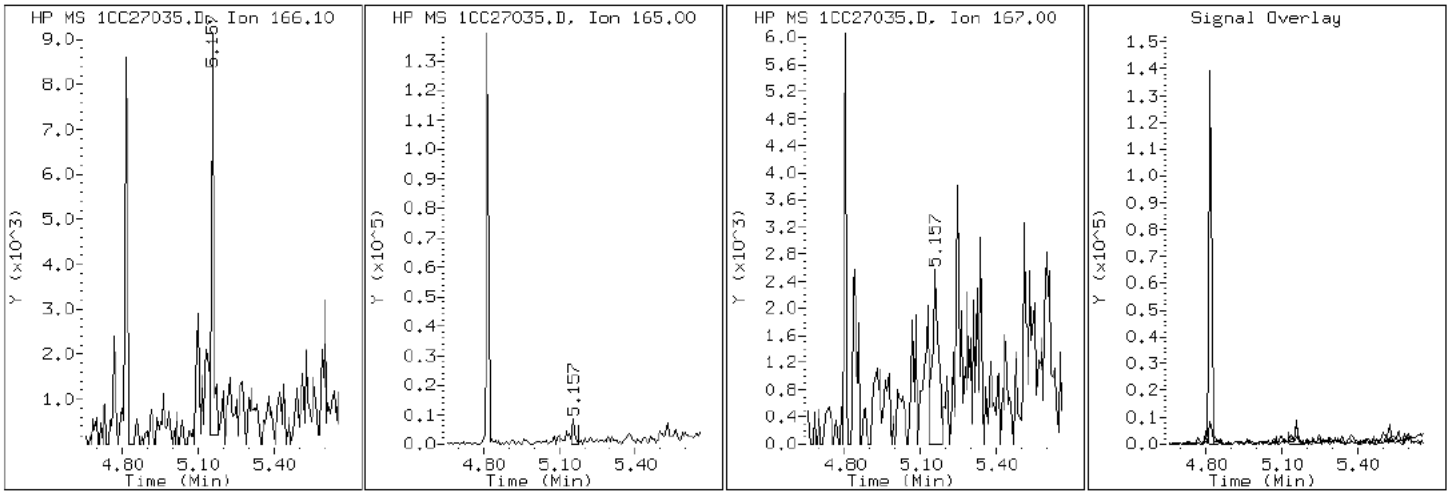
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

9 Fluorene



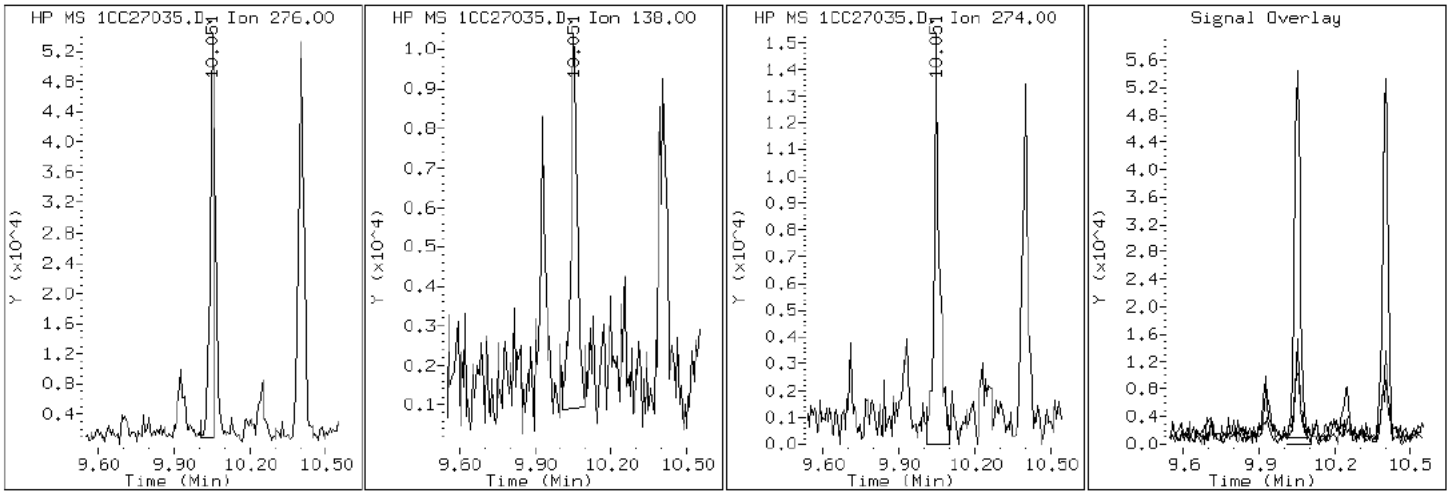
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

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



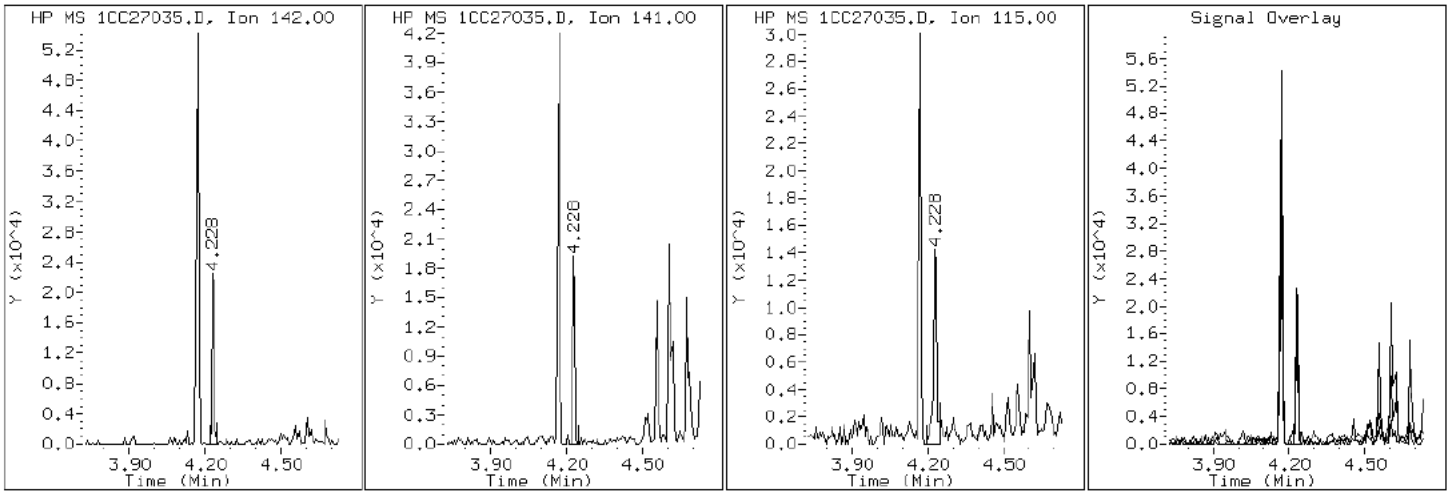
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

4 1-Methylnaphthalene



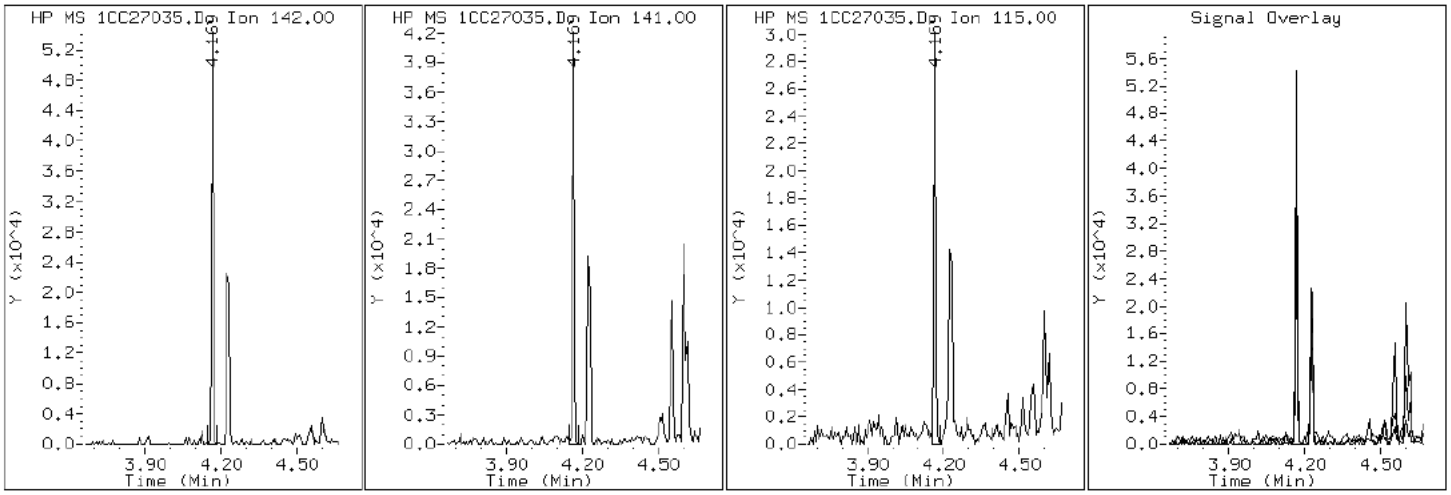
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

3 2-Methylnaphthalene



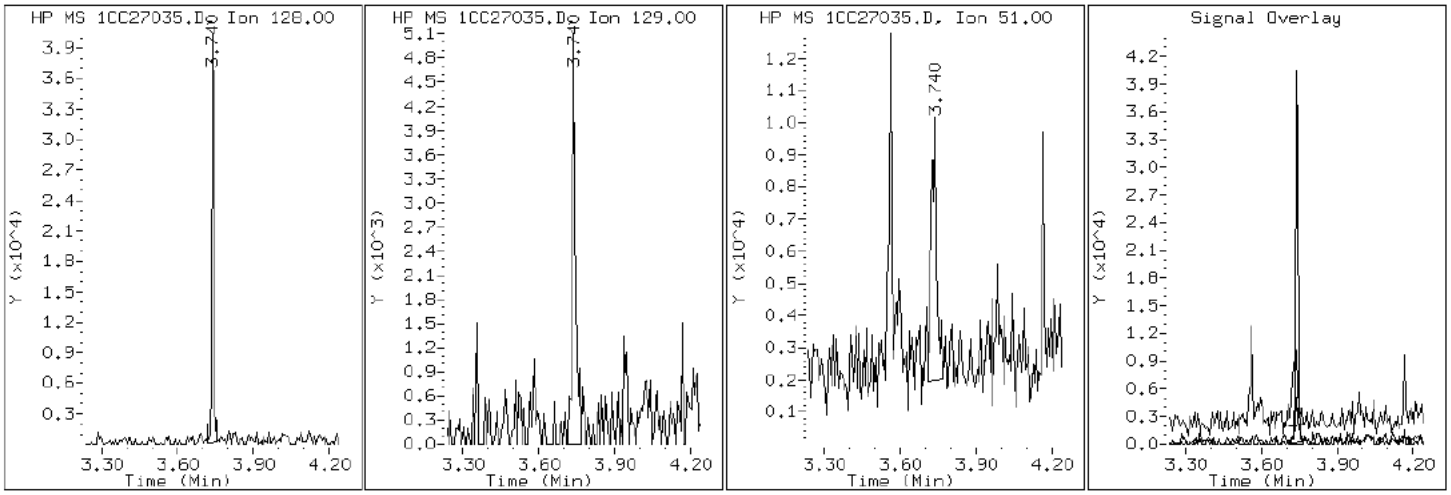
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

2 Naphthalene



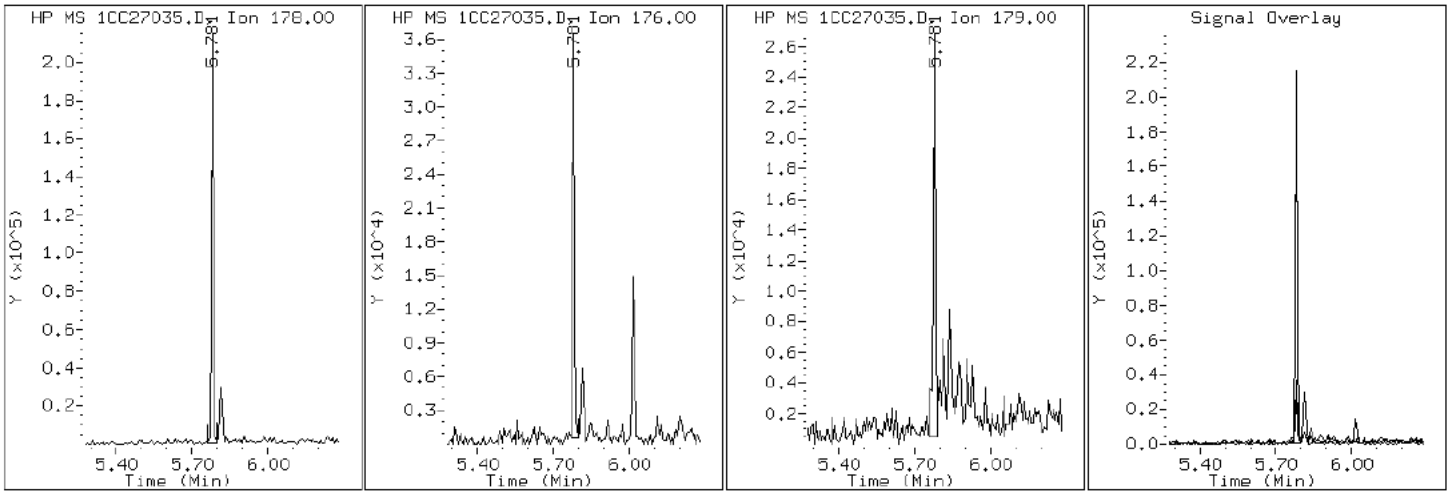
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

11 Phenanthrene



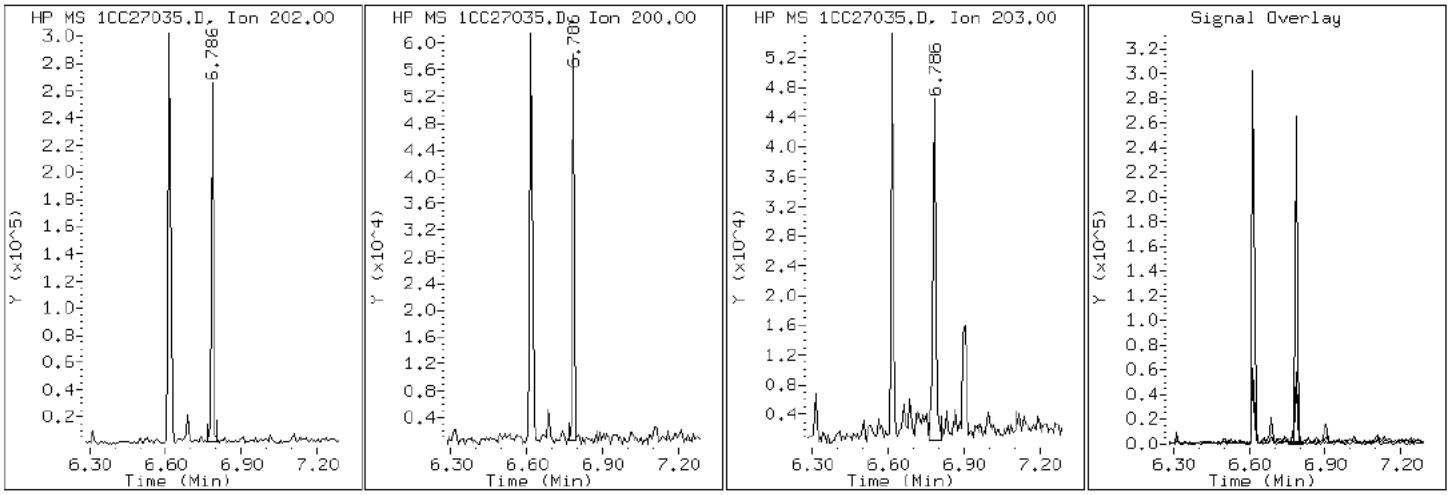
Data File: 1CC27035.D

Date: 27-MAR-2013 20:34

Client ID: CV0770A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-27-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC27035.D
Inj. Date and Time: 27-MAR-2013 20:34
Instrument ID: BSMC5973.i
Client ID: CV0770A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/28/2013

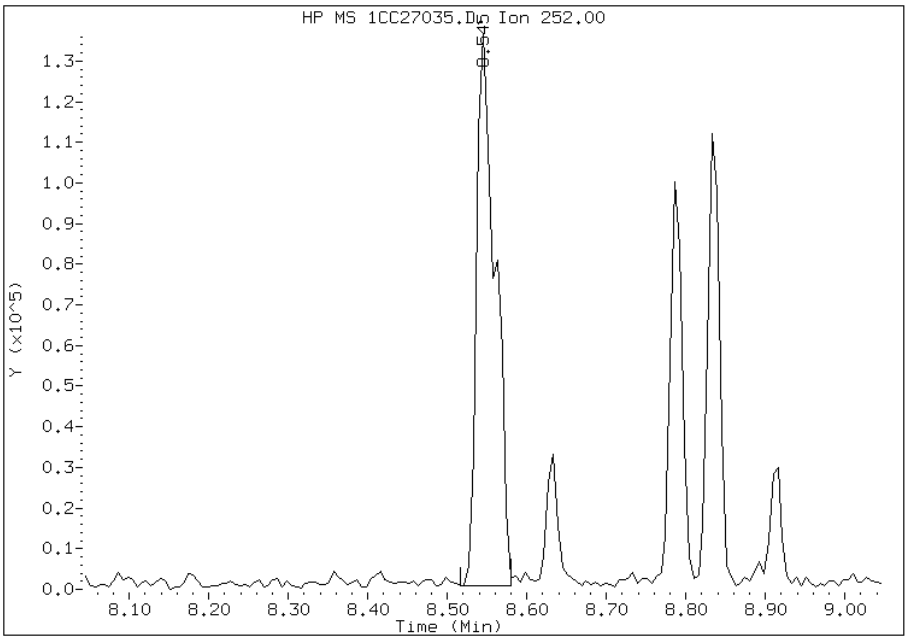
Processing Integration Results

RT: 8.55

Response: 221237

Amount: 8

Conc: 648



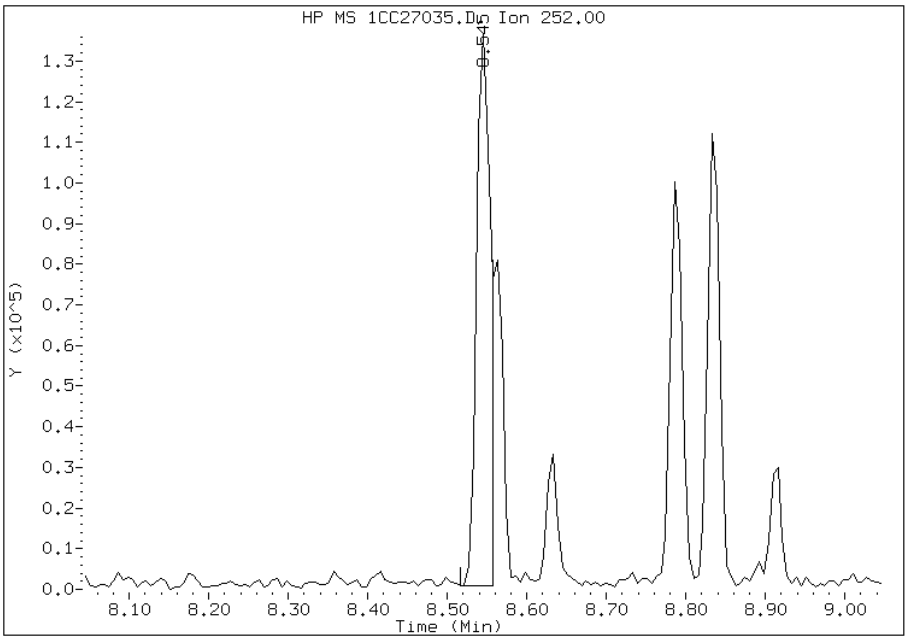
Manual Integration Results

RT: 8.55

Response: 165206

Amount: 6

Conc: 484



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC27035.D
Inj. Date and Time: 27-MAR-2013 20:34
Instrument ID: BSMC5973.i
Client ID: CV0770A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/28/2013

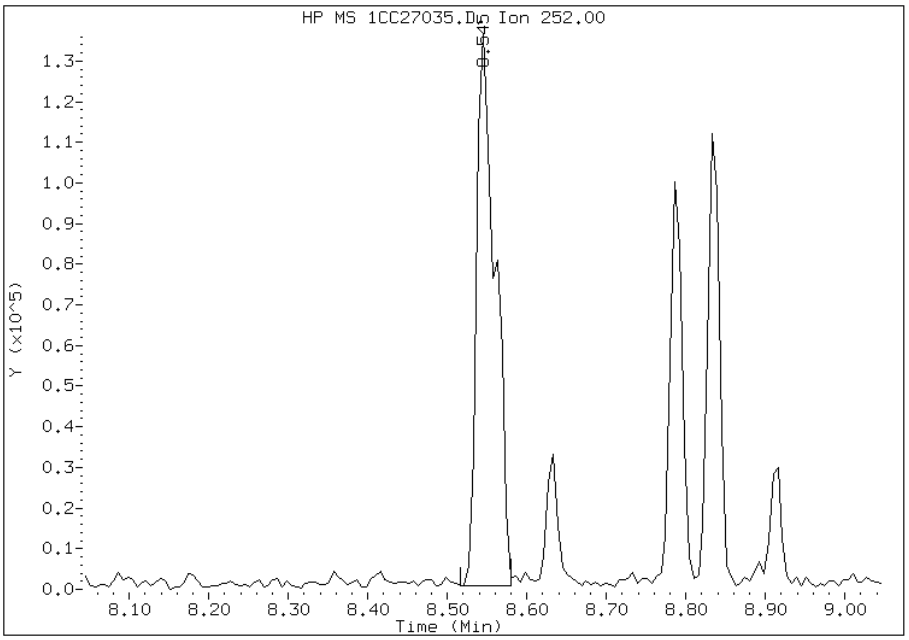
Processing Integration Results

RT: 8.55

Response: 221237

Amount: 8

Conc: 632



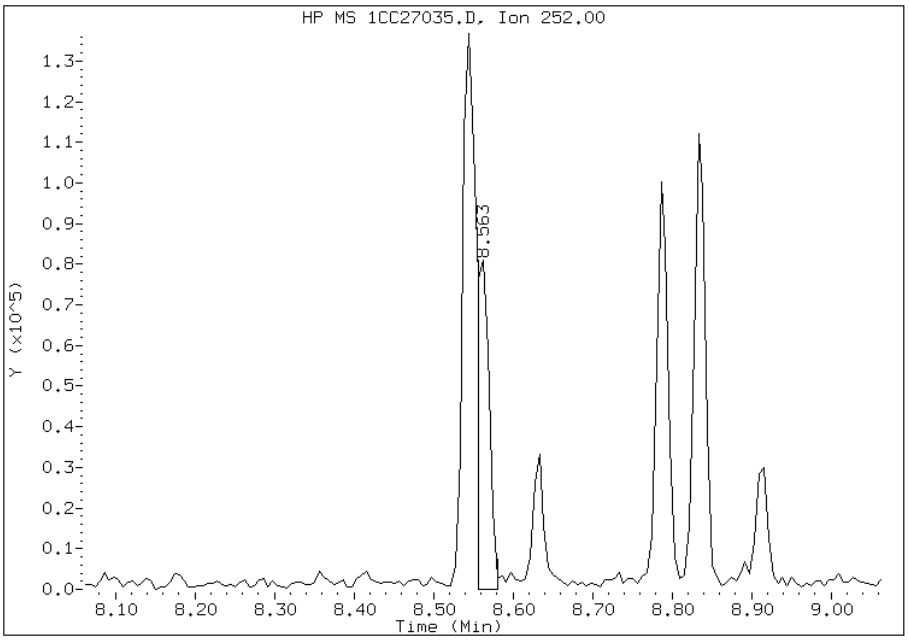
Manual Integration Results

RT: 8.56

Response: 84188

Amount: 3

Conc: 240



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC27035.D
Inj. Date and Time: 27-MAR-2013 20:34
Instrument ID: BSMC5973.i
Client ID: CV0770A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

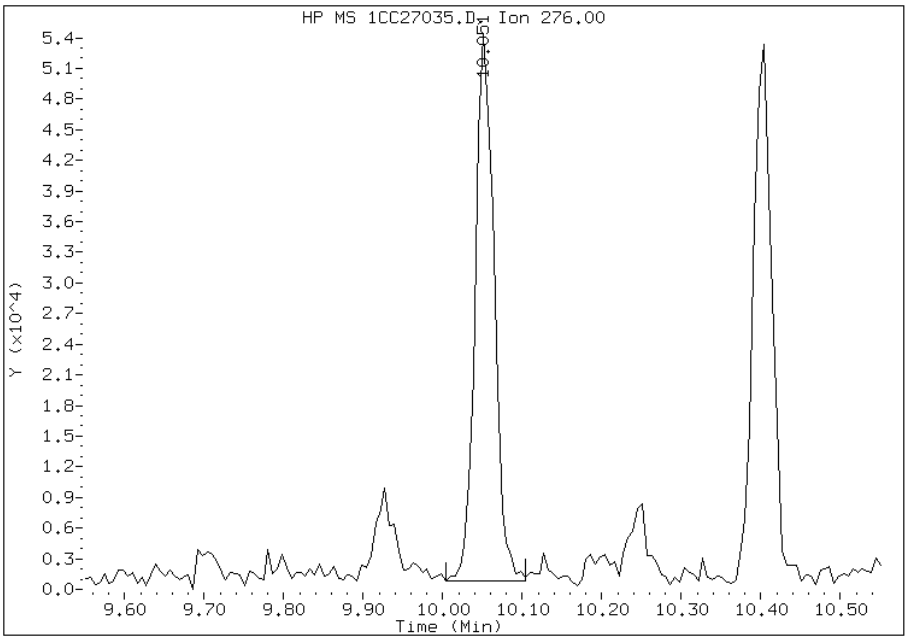
Processing Integration Results

RT: 10.05

Response: 87983

Amount: 3

Conc: 282



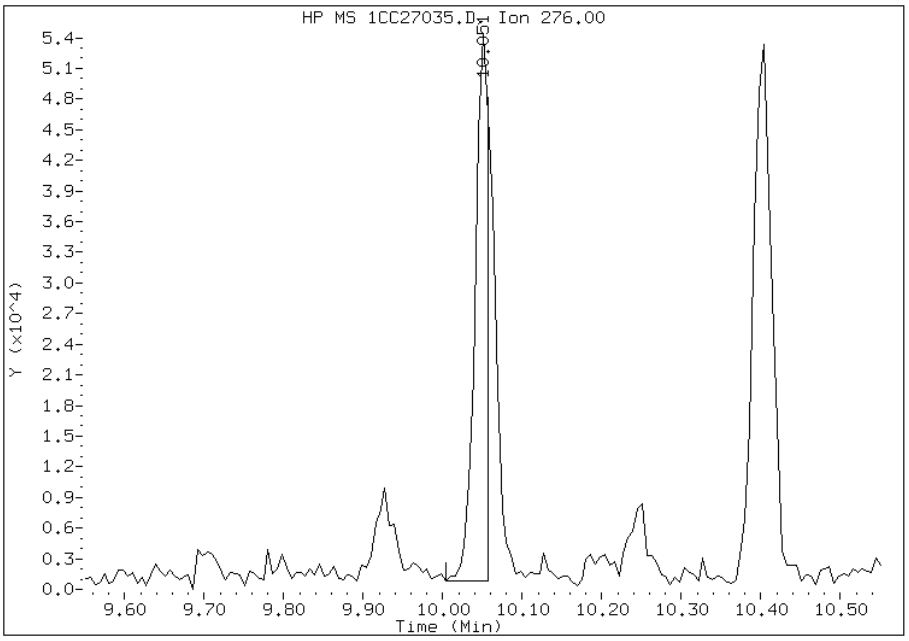
Manual Integration Results

RT: 10.05

Response: 63046

Amount: 2

Conc: 202



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0770B-CS-SP | Lab Sample ID: 680-88420-28

Matrix: Solid | Lab File ID: 1AC26022.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 14:00

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 15.17(g) | Date Analyzed: 03/26/2013 18:09

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

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

% Moisture: 20.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135850 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	38	J	50	6.2
120-12-7	Anthracene	30		10	5.2
56-55-3	Benzo[a]anthracene	140		9.9	4.8
50-32-8	Benzo[a]pyrene	79		13	6.5
205-99-2	Benzo[b]fluoranthene	220		15	7.6
191-24-2	Benzo[g,h,i]perylene	87		25	5.5
207-08-9	Benzo[k]fluoranthene	49		9.9	4.5
218-01-9	Chrysene	150		11	5.6
53-70-3	Dibenz(a,h)anthracene	31		25	5.1
206-44-0	Fluoranthene	180		25	5.0
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	61		25	8.8
90-12-0	1-Methylnaphthalene	59		50	5.5
91-57-6	2-Methylnaphthalene	150		50	8.8
91-20-3	Naphthalene	57		50	5.5
85-01-8	Phenanthrene	140		9.9	4.8
129-00-0	Pyrene	170		25	4.6

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\1A032613.b\1AC26022.D
Lab Smp Id: 680-88420-A-28-A Client Smp ID: CV0770B-CS-SP
Inj Date : 26-MAR-2013 18:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88420-A-28-A
Misc Info : 680-88420-A-28-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	20.379	% 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	2.278	2.272	(1.000)	613896	40.0000	
* 6 Acenaphthene-d10	164	3.299	3.287	(1.000)	514221	40.0000	
* 10 Phenanthrene-d10	188	4.223	4.205	(1.000)	743036	40.0000	
$ 14 o-Terphenyl	230	4.490	4.478	(1.063)	60065	6.20513	513.7345
* 18 Chrysene-d12	240	6.221	6.193	(1.000)	599951	40.0000	(H)
* 23 Perylene-d12	264	7.316	7.272	(1.000)	722077	40.0000	(H)
2 Naphthalene	128	2.289	2.282	(1.005)	9765	0.68850	57.0019
3 2-Methylnaphthalene	141	2.690	2.683	(1.181)	7999	1.80022	149.0434
4 1-Methylnaphthalene	142	2.743	2.736	(1.204)	5809	0.71228	58.9705
5 Acenaphthylene	152	3.213	3.201	(0.974)	5351	0.45800	37.9183
11 Phenanthrene	178	4.234	4.221	(1.003)	31055	1.64905	136.5280
12 Anthracene	178	4.266	4.253	(1.010)	6609	0.36194	29.9653
13 Carbazole	167	4.431	4.408	(1.049)	4276	0.26717	22.1197
15 Fluoranthene	202	5.083	5.065	(1.204)	40060	2.15199	178.1670

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.243	5.226	(0.843)	35893	2.08656	172.7503(H)
17 Benzo(a)anthracene	228	6.216	6.177	(0.999)	26943	1.71701	142.1546(H)
19 Chrysene	228	6.232	6.209	(1.002)	28789	1.85270	153.3883(H)
20 Benzo(b)fluoranthene	252	7.028	6.994	(0.961)	29251	2.67283	221.2885(MH)
21 Benzo(k)fluoranthene	252	7.038	7.015	(0.962)	11588	0.59495	49.2566(M)
22 Benzo(a)pyrene	252	7.257	7.224	(0.992)	16137	0.95228	78.8409(H)
24 Indeno(1,2,3-cd)pyrene	276	8.005	7.972	(1.094)	11296	0.73878	61.1646(MH)
25 Dibenzo(a,h)anthracene	278	8.011	7.982	(1.095)	5669	0.37409	30.9718(H)
26 Benzo(g,h,i)perylene	276	8.192	8.148	(1.120)	16233	1.05470	87.3207(H)

QC Flag Legend

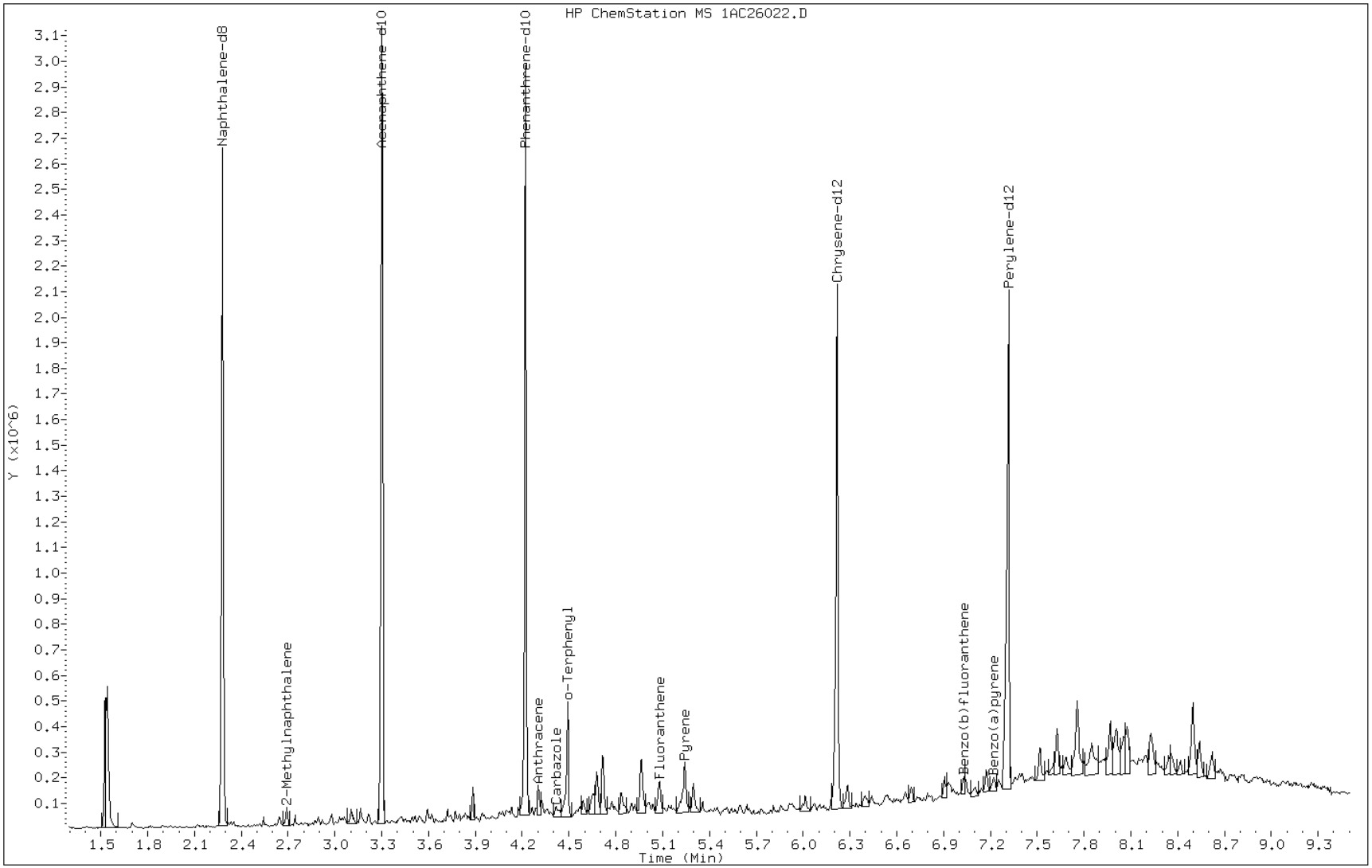
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC



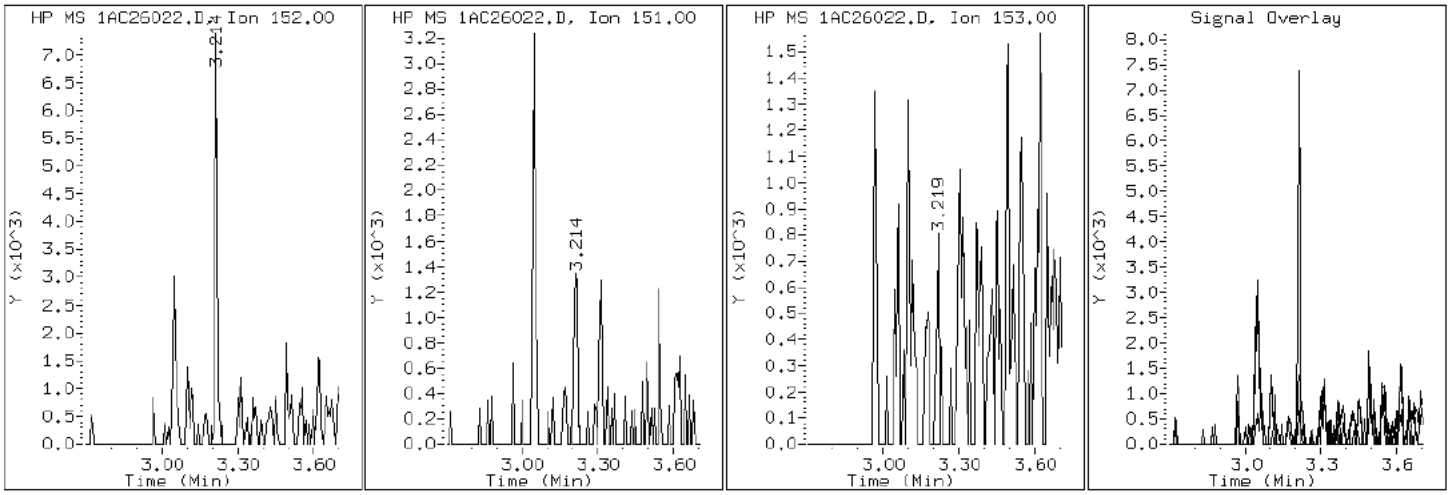
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

5 Acenaphthylene



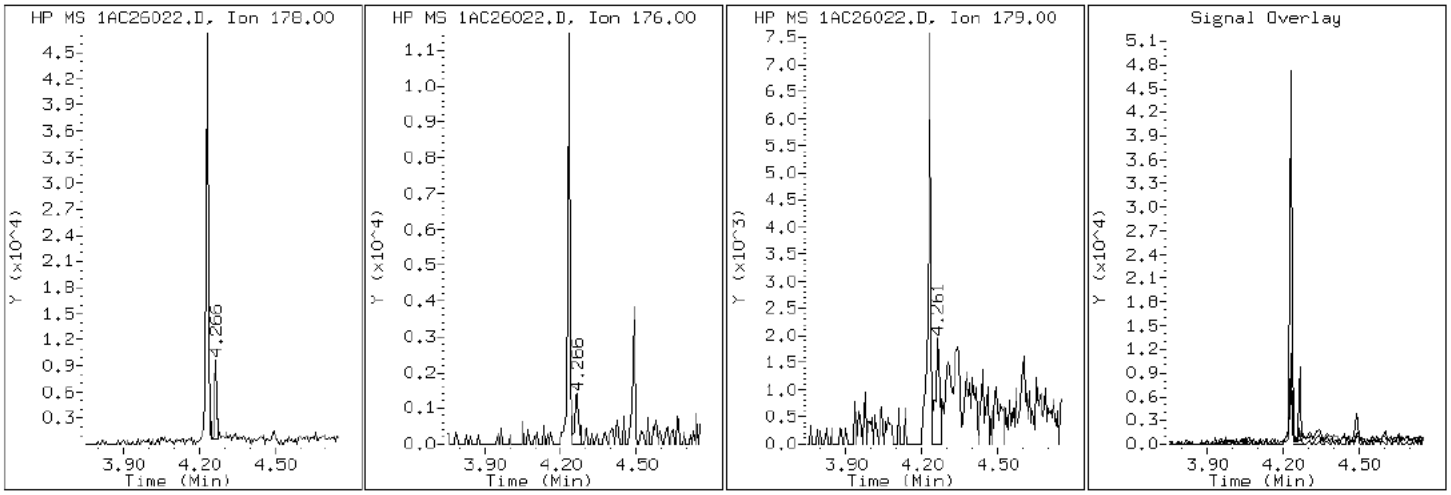
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

12 Anthracene



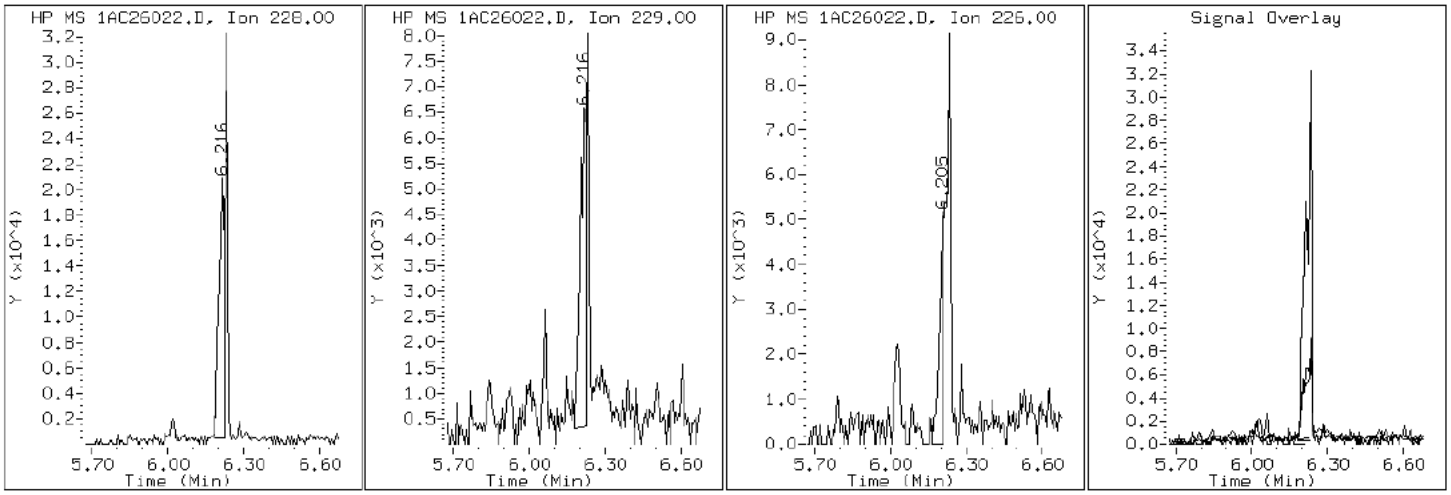
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

17 Benzo(a)anthracene



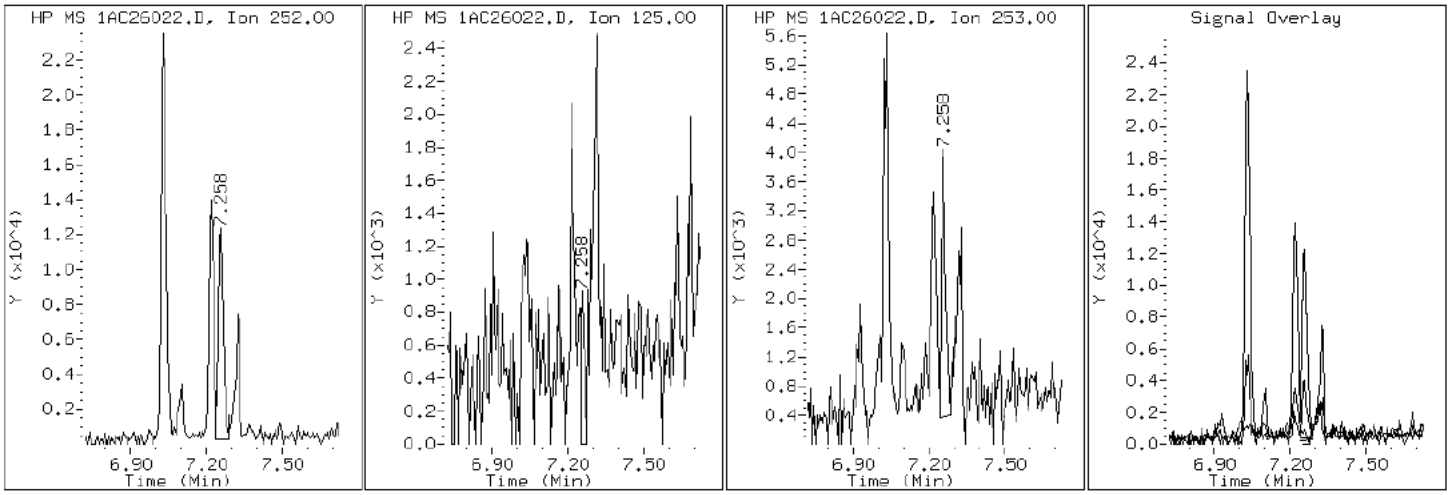
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

22 Benzo(a)pyrene



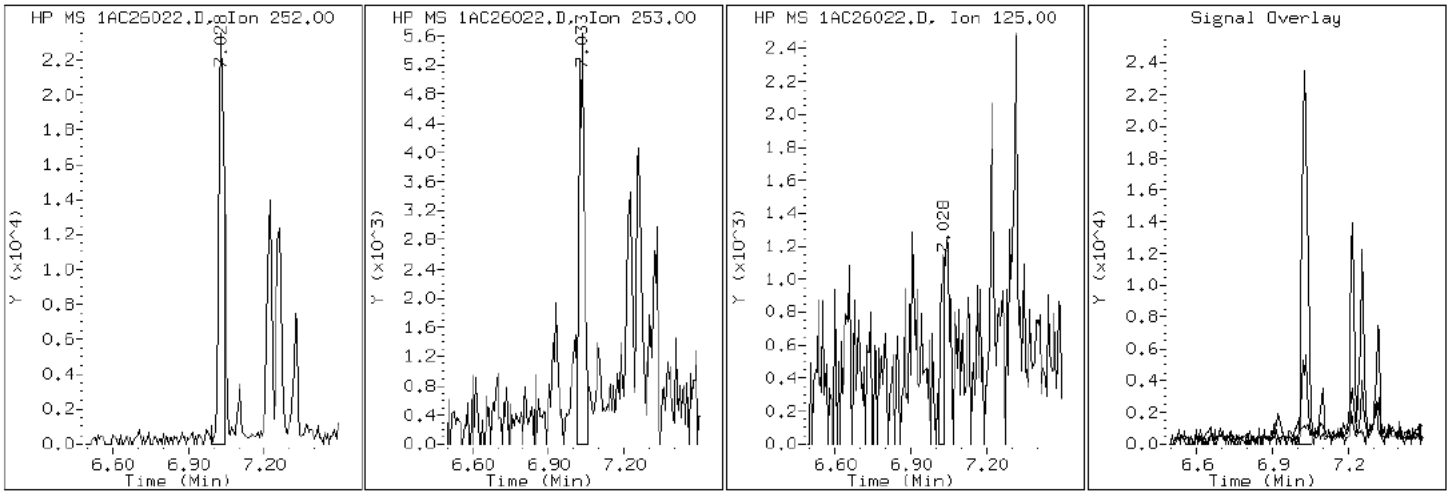
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

20 Benzo(b)fluoranthene



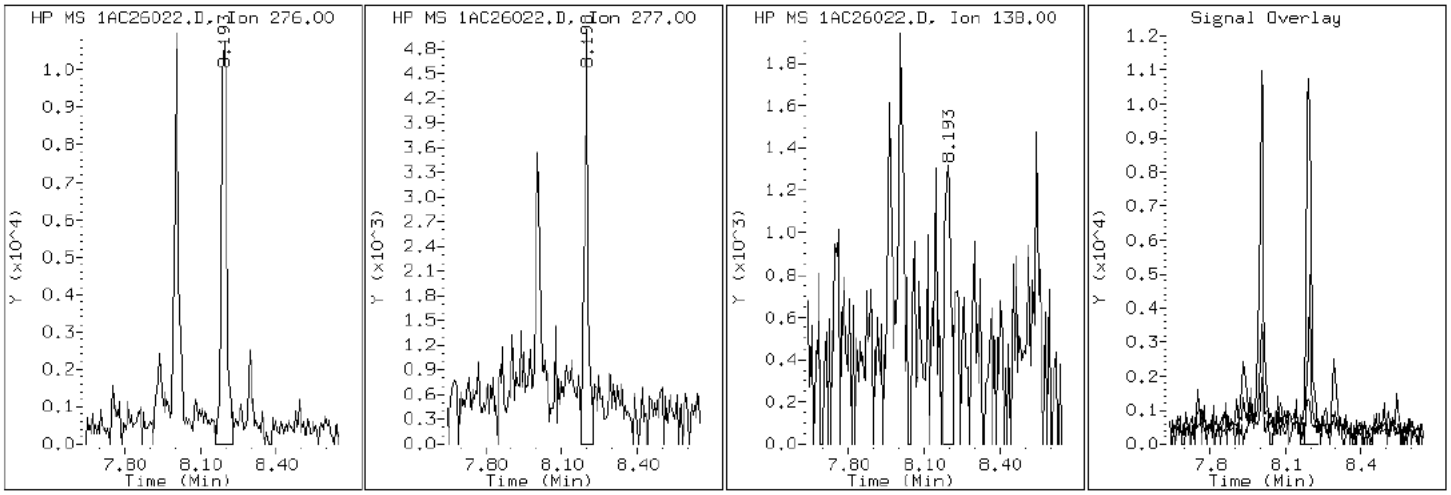
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

26 Benzo(g,h,i)perylene



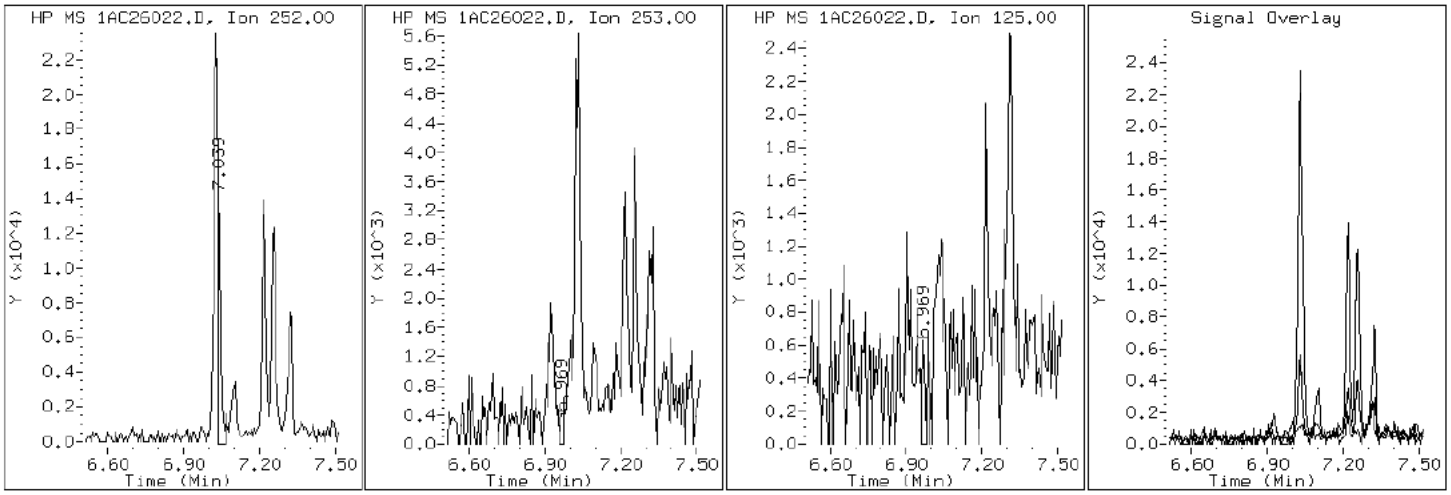
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

21 Benzo(k)fluoranthene



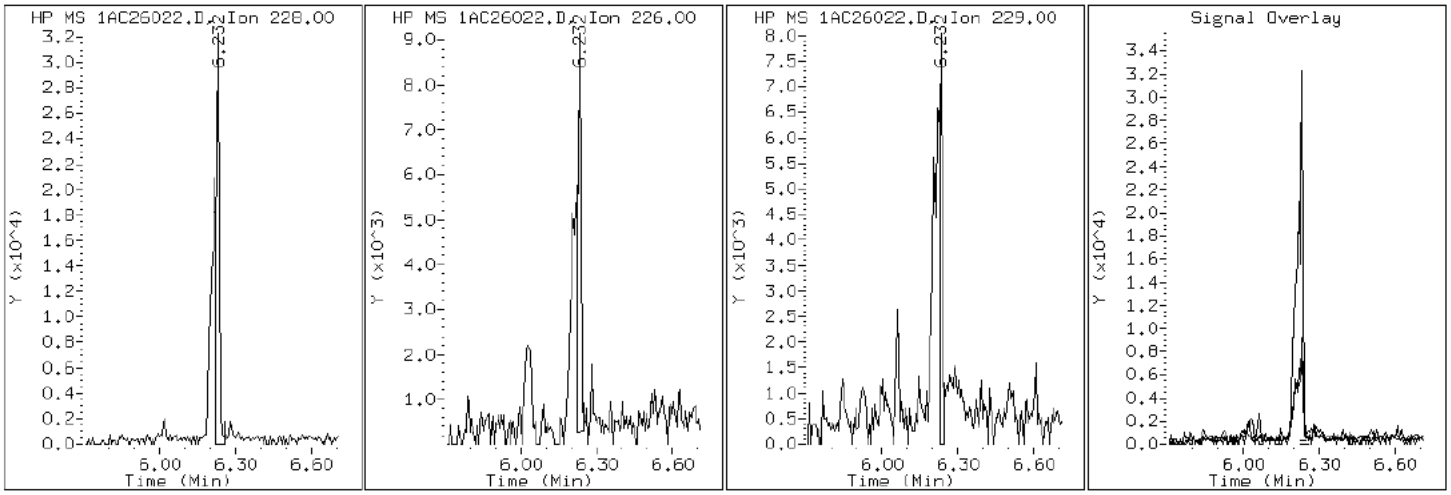
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

19 Chrysene



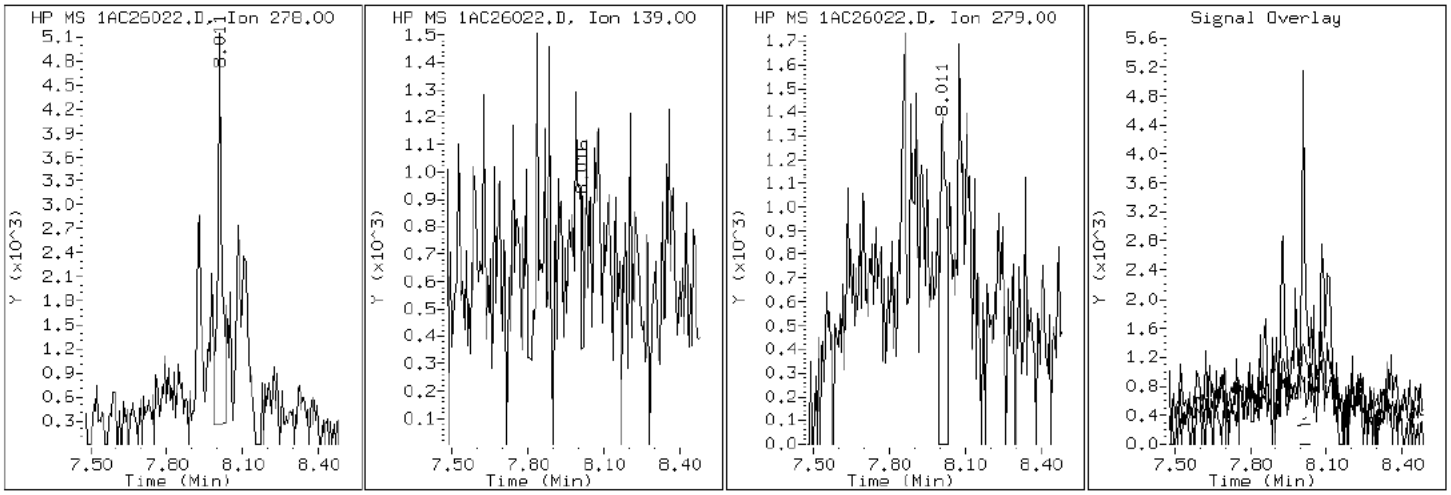
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

25 Dibenzo(a,h)anthracene



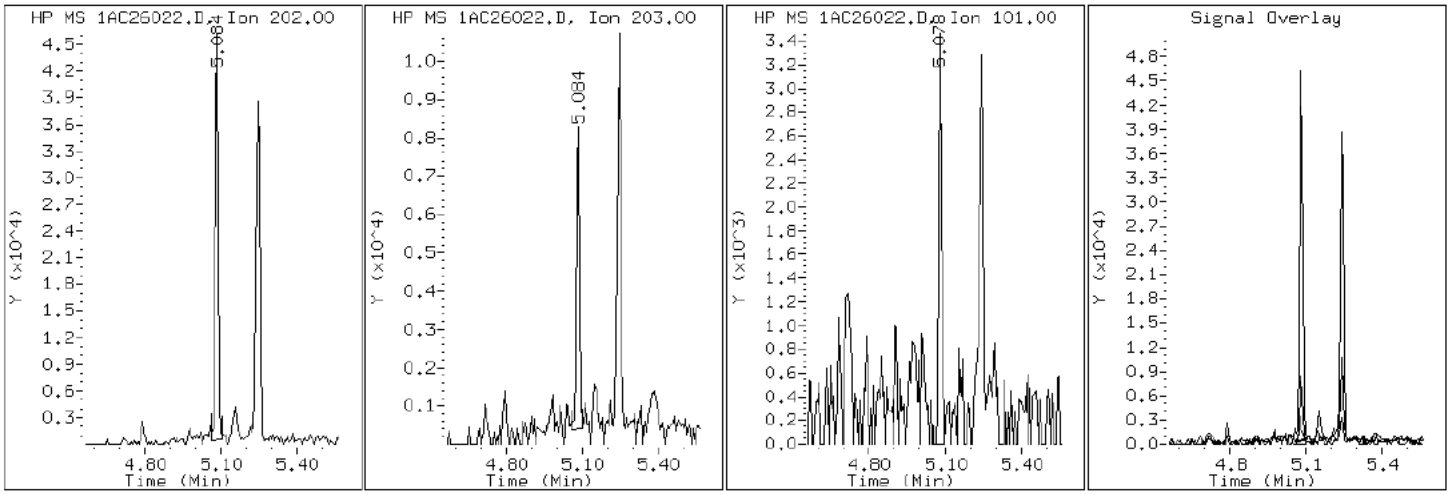
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

15 Fluoranthene



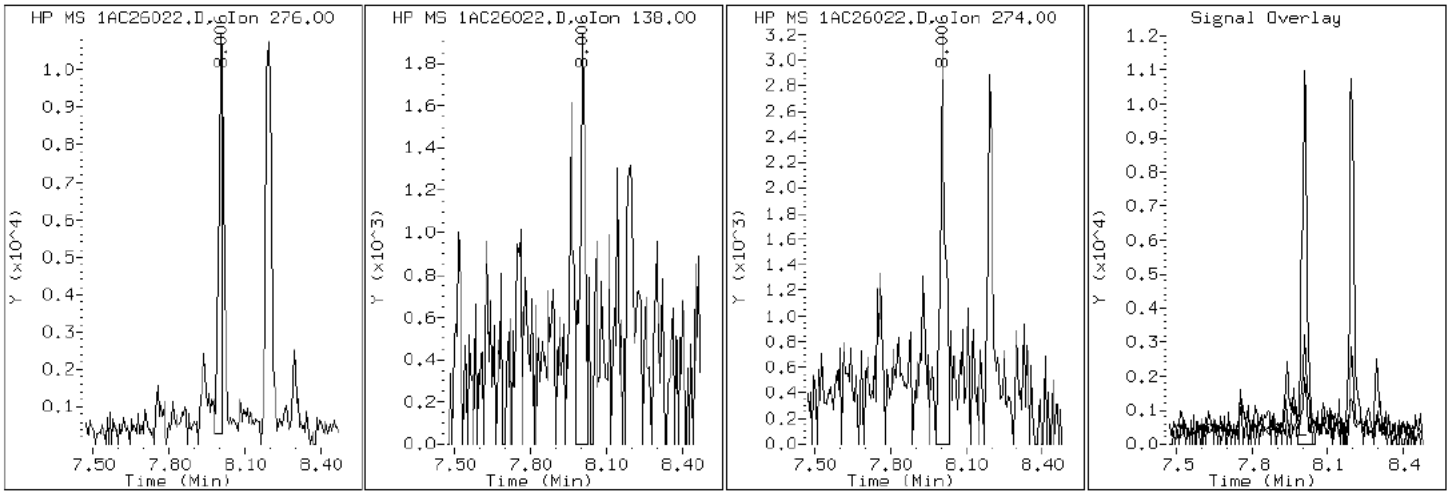
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

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



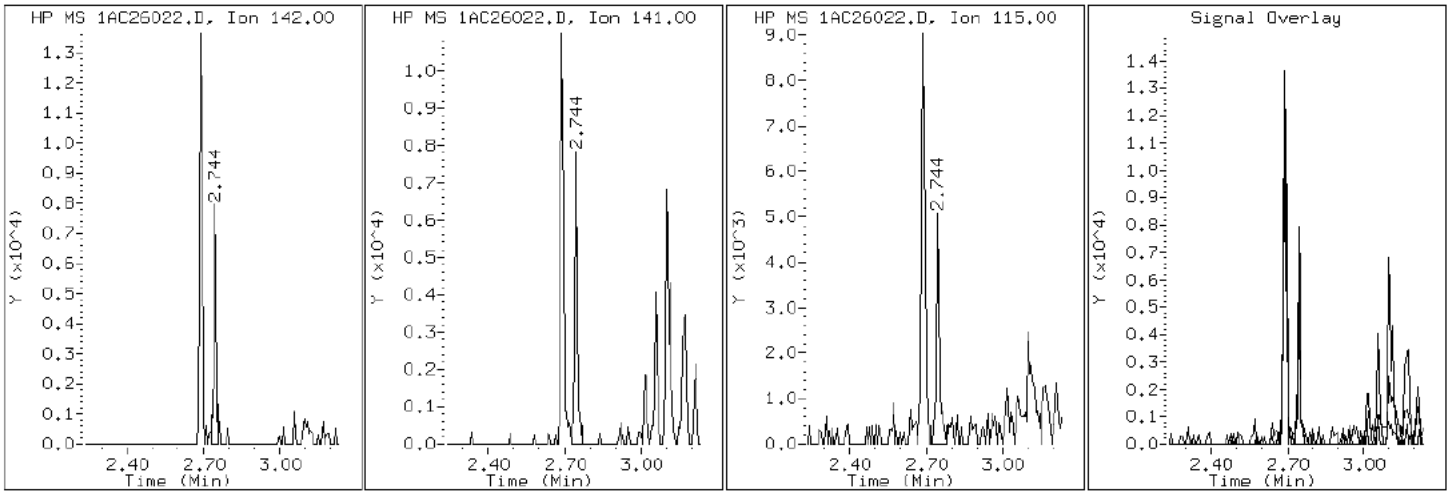
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

4 1-Methylnaphthalene



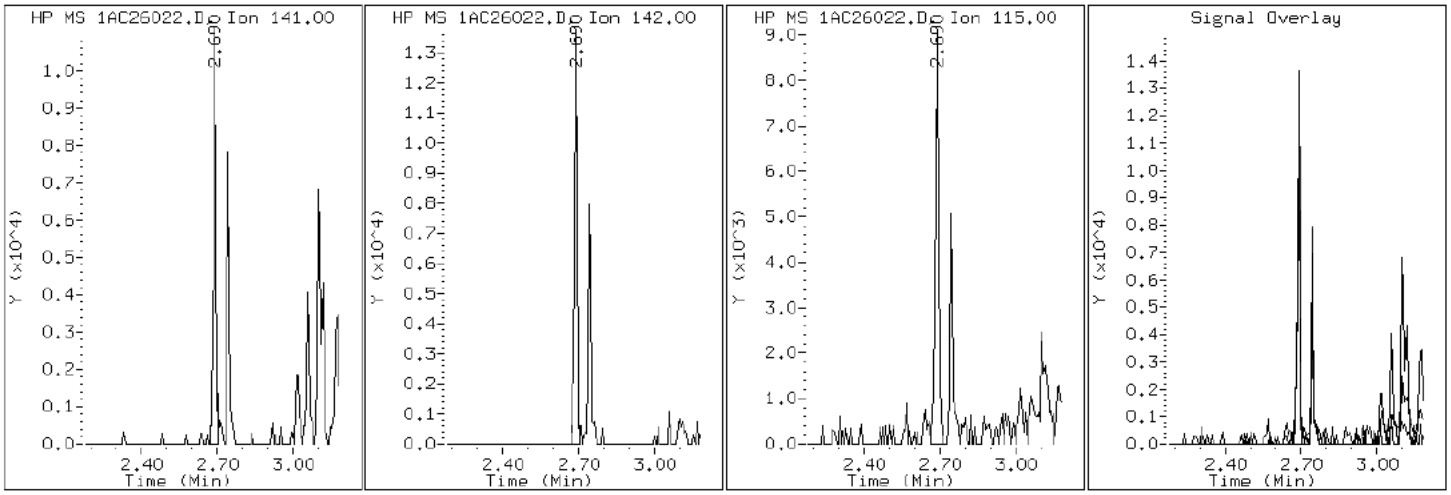
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

3 2-Methylnaphthalene



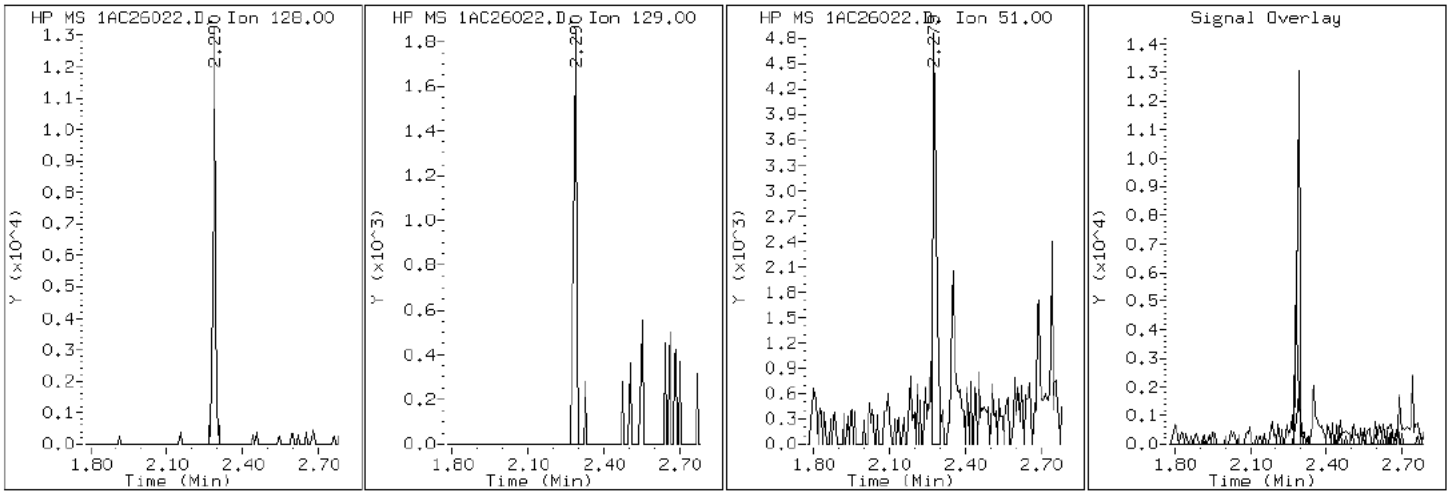
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

2 Naphthalene



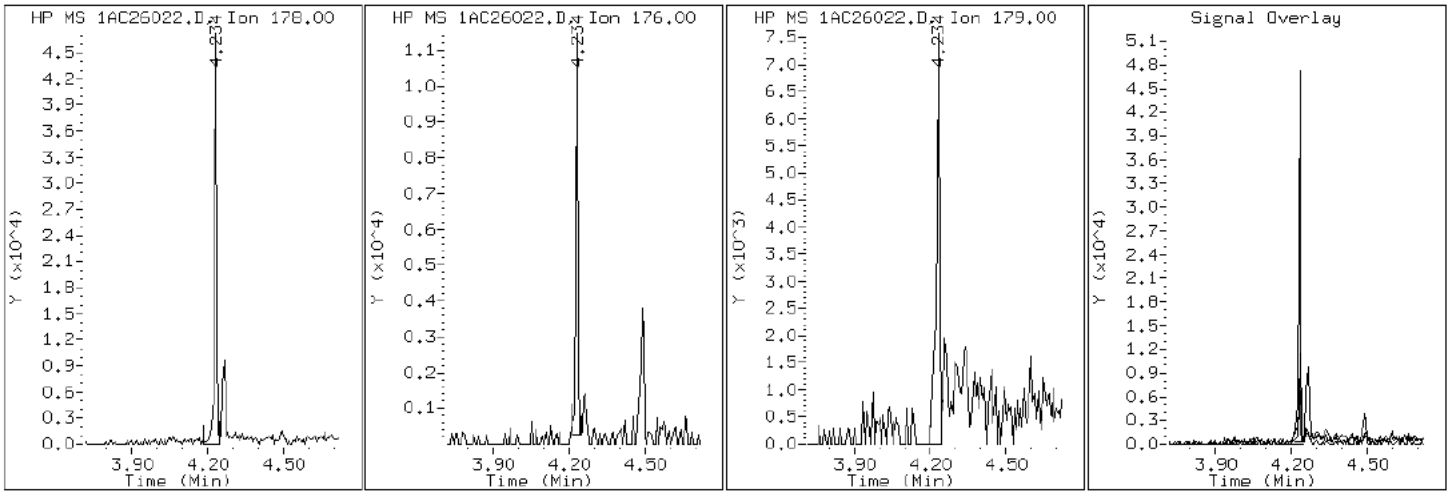
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

11 Phenanthrene



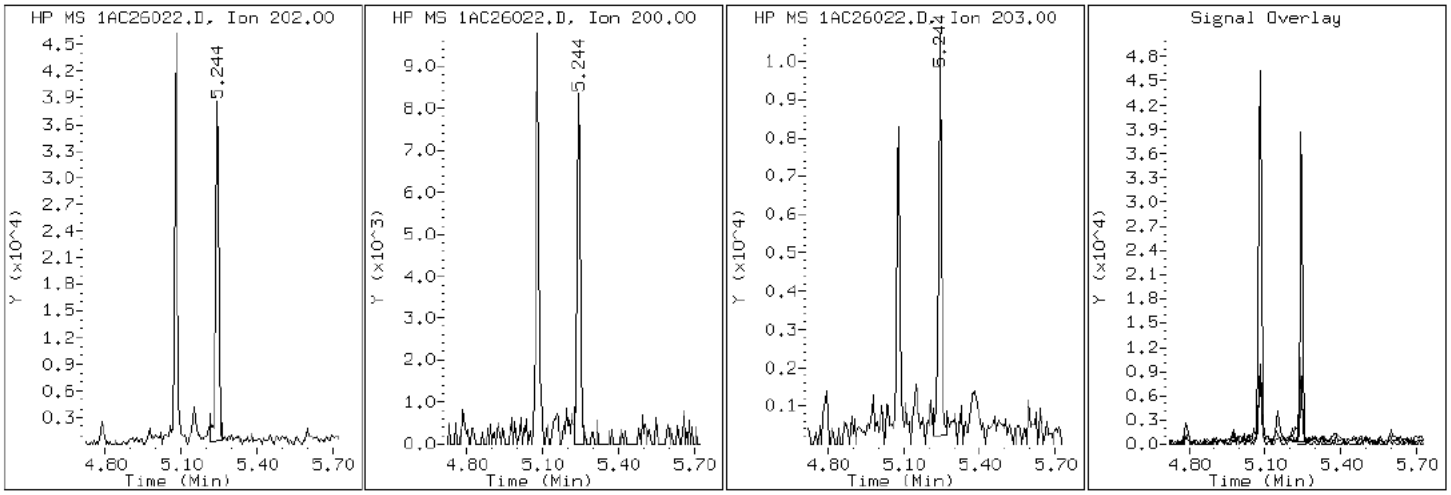
Data File: 1AC26022.D

Date: 26-MAR-2013 18:09

Client ID: CV0770B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-28-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AC26022.D
Inj. Date and Time: 26-MAR-2013 18:09
Instrument ID: BSMA5973.i
Client ID: CV0770B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/28/2013

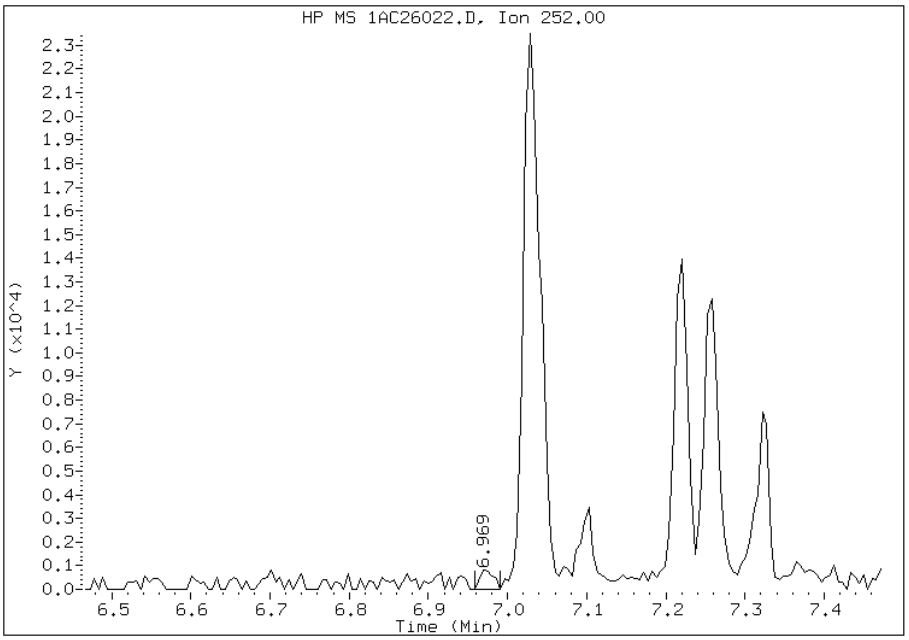
Processing Integration Results

RT: 6.97

Response: 952

Amount: 1

Conc: 104



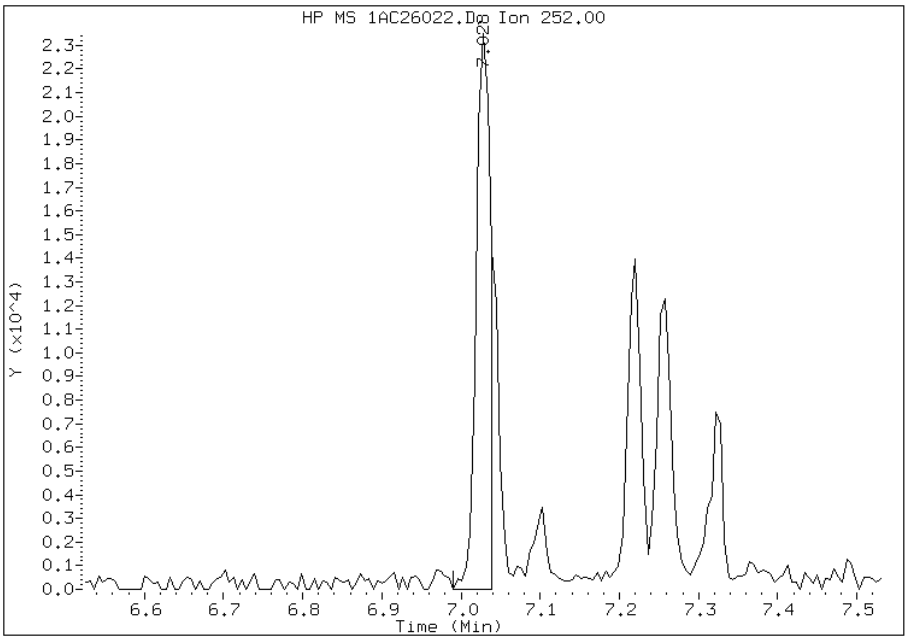
Manual Integration Results

RT: 7.03

Response: 29251

Amount: 3

Conc: 221



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC26022.D
Inj. Date and Time: 26-MAR-2013 18:09
Instrument ID: BSMA5973.i
Client ID: CV0770B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/28/2013

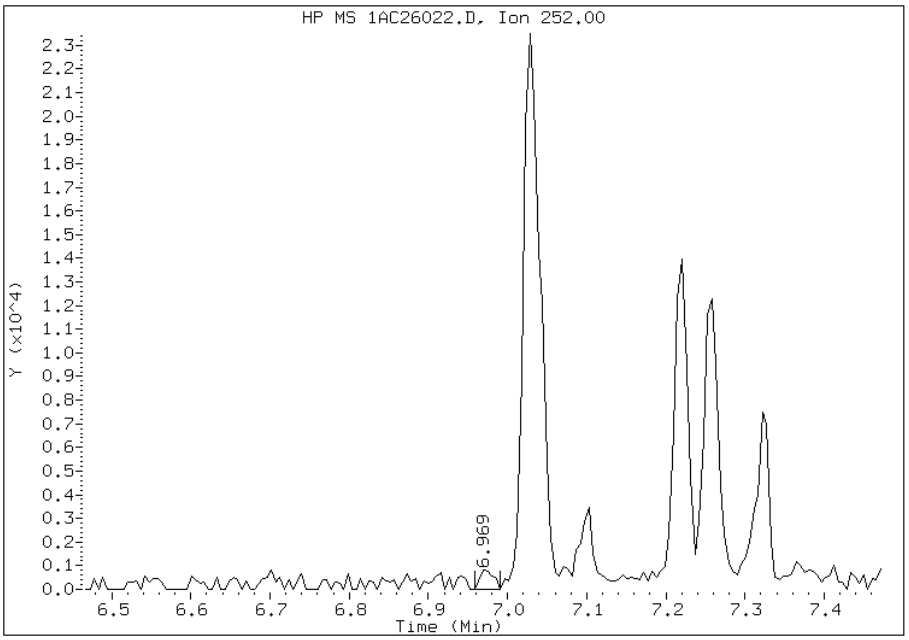
Processing Integration Results

RT: 6.97

Response: 952

Amount: 0

Conc: 4



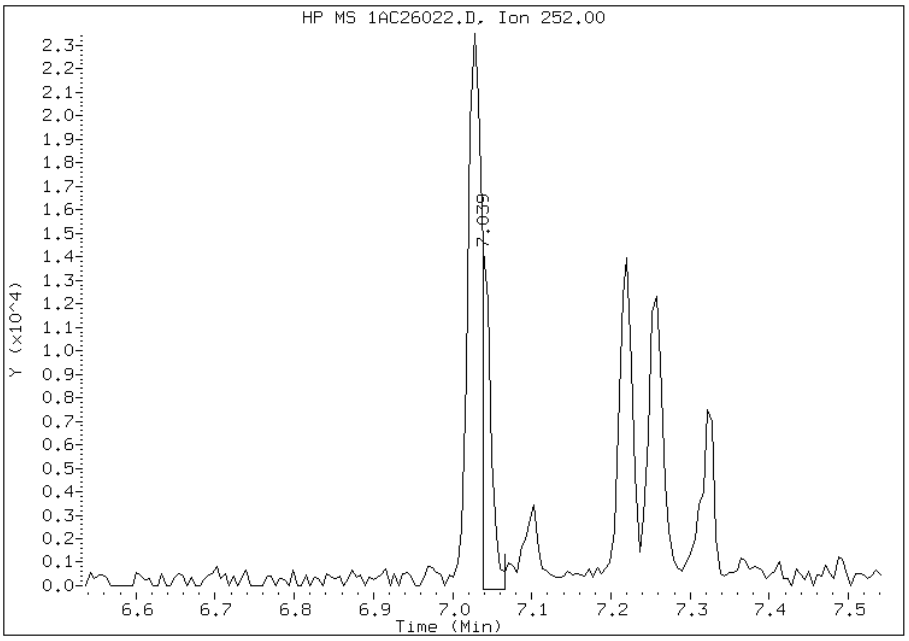
Manual Integration Results

RT: 7.04

Response: 11588

Amount: 1

Conc: 49



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC26022.D
Inj. Date and Time: 26-MAR-2013 18:09
Instrument ID: BSMA5973.i
Client ID: CV0770B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

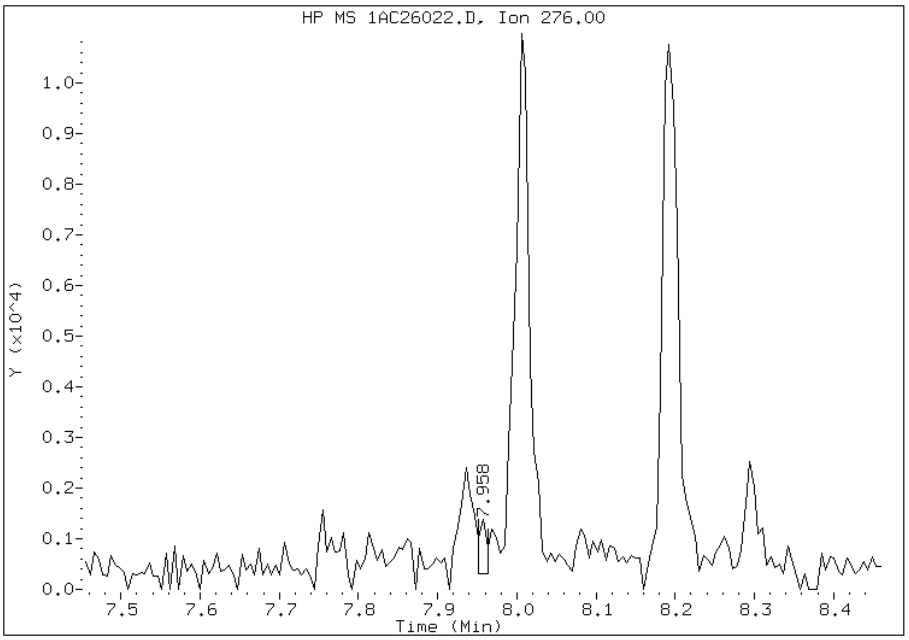
Processing Integration Results

RT: 7.96

Response: 752

Amount: 0

Conc: 4



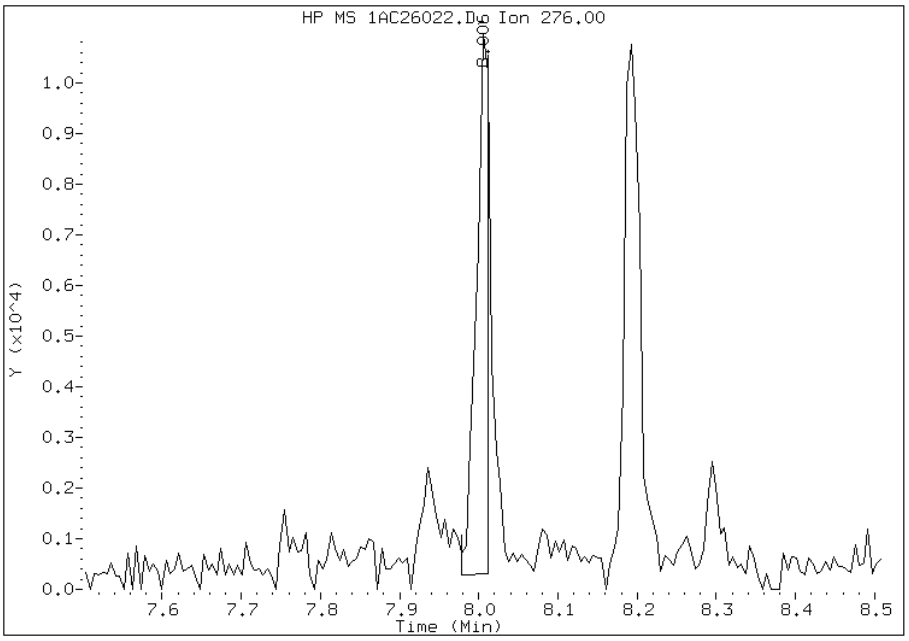
Manual Integration Results

RT: 8.01

Response: 11296

Amount: 1

Conc: 61



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0766A-CS-SP | Lab Sample ID: 680-88420-29

Matrix: Solid | Lab File ID: 1AC26023.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 14:21

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 14.92(g) | Date Analyzed: 03/26/2013 18:24

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

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

% Moisture: 29.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135850 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	65	J	140	28
208-96-8	Acenaphthylene	98		57	7.1
120-12-7	Anthracene	170		12	6.0
56-55-3	Benzo[a]anthracene	430		11	5.5
50-32-8	Benzo[a]pyrene	190		15	7.4
205-99-2	Benzo[b]fluoranthene	480		17	8.7
191-24-2	Benzo[g,h,i]perylene	230		28	6.3
207-08-9	Benzo[k]fluoranthene	150		11	5.1
218-01-9	Chrysene	510		13	6.4
53-70-3	Dibenz(a,h)anthracene	100		28	5.8
206-44-0	Fluoranthene	470		28	5.7
86-73-7	Fluorene	89		28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	180		28	10
90-12-0	1-Methylnaphthalene	840		57	6.3
91-57-6	2-Methylnaphthalene	790		57	10
91-20-3	Naphthalene	490		57	6.3
85-01-8	Phenanthrene	730		11	5.5
129-00-0	Pyrene	440		28	5.3

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\1A032613.b\1AC26023.D
Lab Smp Id: 680-88420-A-29-A Client Smp ID: CV0766A-CS-SP
Inj Date : 26-MAR-2013 18:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88420-A-29-A
Misc Info : 680-88420-A-29-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	29.258	% 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	2.280	2.272	(1.000)	408340	40.0000	
* 6 Acenaphthene-d10	164	3.300	3.287	(1.000)	361845	40.0000	
* 10 Phenanthrene-d10	188	4.224	4.205	(1.000)	489914	40.0000	
$ 14 o-Terphenyl	230	4.492	4.478	(1.063)	39038	6.11990	579.8235
* 18 Chrysene-d12	240	6.222	6.193	(1.000)	431011	40.0000	(H)
* 23 Perylene-d12	264	7.328	7.272	(1.000)	597883	40.0000	(H)
2 Naphthalene	128	2.291	2.282	(1.005)	48392	5.12952	485.9907
3 2-Methylnaphthalene	141	2.691	2.683	(1.180)	42946	8.30128	786.4961
4 1-Methylnaphthalene	142	2.745	2.736	(1.204)	47825	8.81606	835.2683
5 Acenaphthylene	152	3.215	3.201	(0.974)	11193	1.03617	98.1708
7 Acenaphthene	154	3.316	3.308	(1.005)	2021	0.68822	65.2048(Q)
9 Fluorene	166	3.626	3.612	(1.099)	6517	0.94104	89.1579(Q)
11 Phenanthrene	178	4.235	4.221	(1.003)	95825	7.71741	731.1779
12 Anthracene	178	4.267	4.253	(1.010)	22133	1.83834	174.1721

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.433	4.408	(1.049)	8967	0.84975	80.5090
15 Fluoranthene	202	5.085	5.065	(1.204)	60843	4.95712	469.6573
16 Pyrene	202	5.250	5.226	(0.844)	57053	4.61666	437.4003(H)
17 Benzo(a)anthracene	228	6.212	6.177	(0.998)	54819	4.55435	431.4974(H)
19 Chrysene	228	6.238	6.209	(1.003)	60321	5.40349	511.9479(H)
20 Benzo(b)fluoranthene	252	7.045	6.994	(0.961)	64298	5.10554	483.7188(MH)
21 Benzo(k)fluoranthene	252	7.050	7.015	(0.962)	25627	1.58904	150.5517(QMH)
22 Benzo(a)pyrene	252	7.269	7.224	(0.992)	28367	2.02172	191.5462(H)
24 Indeno(1,2,3-cd)pyrene	276	8.039	7.972	(1.097)	24265	1.91662	181.5882(MH)
25 Dibenzo(a,h)anthracene	278	8.044	7.982	(1.098)	13555	1.08029	102.3509(H)
26 Benzo(g,h,i)perylene	276	8.226	8.148	(1.122)	31485	2.47060	234.0741(H)

QC Flag Legend

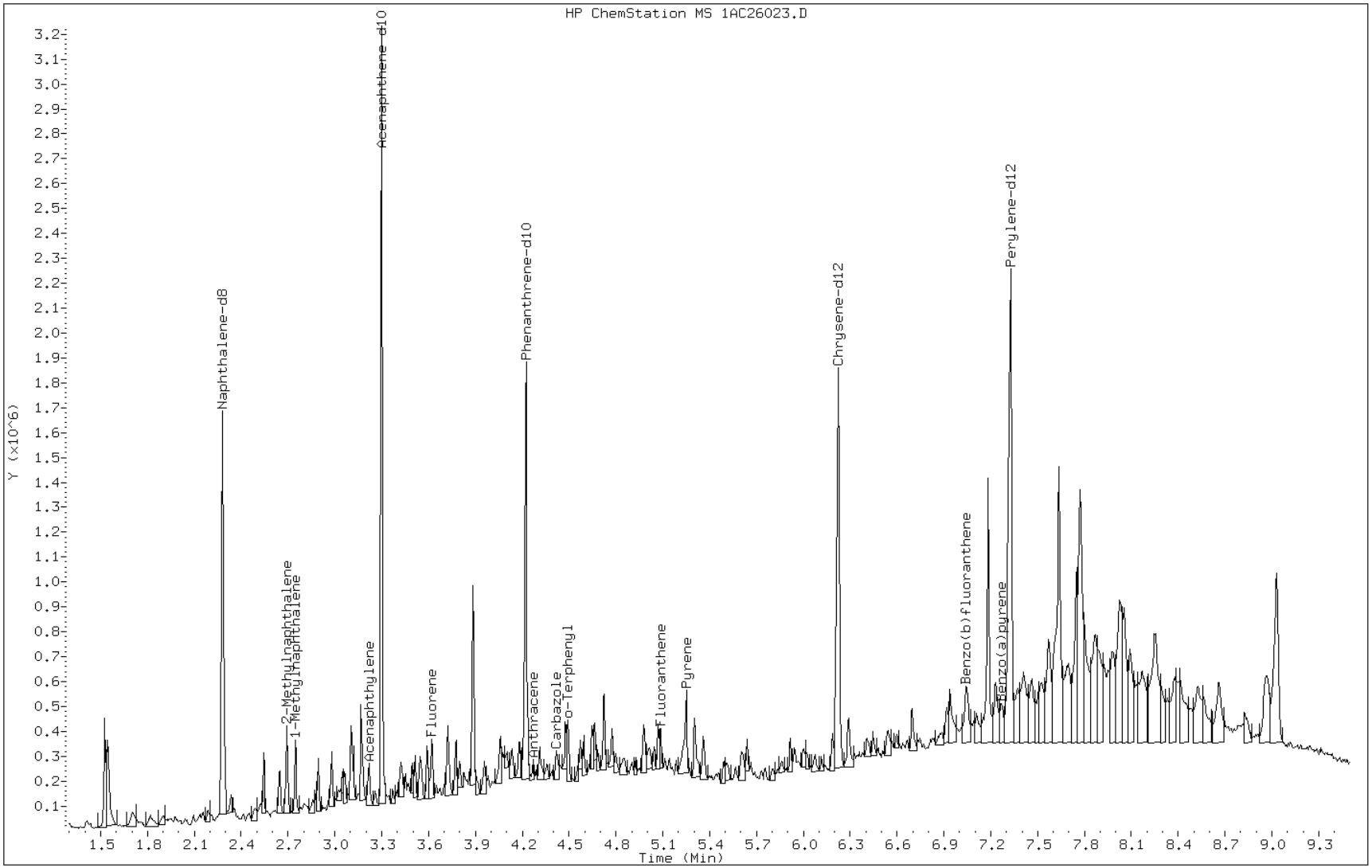
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC



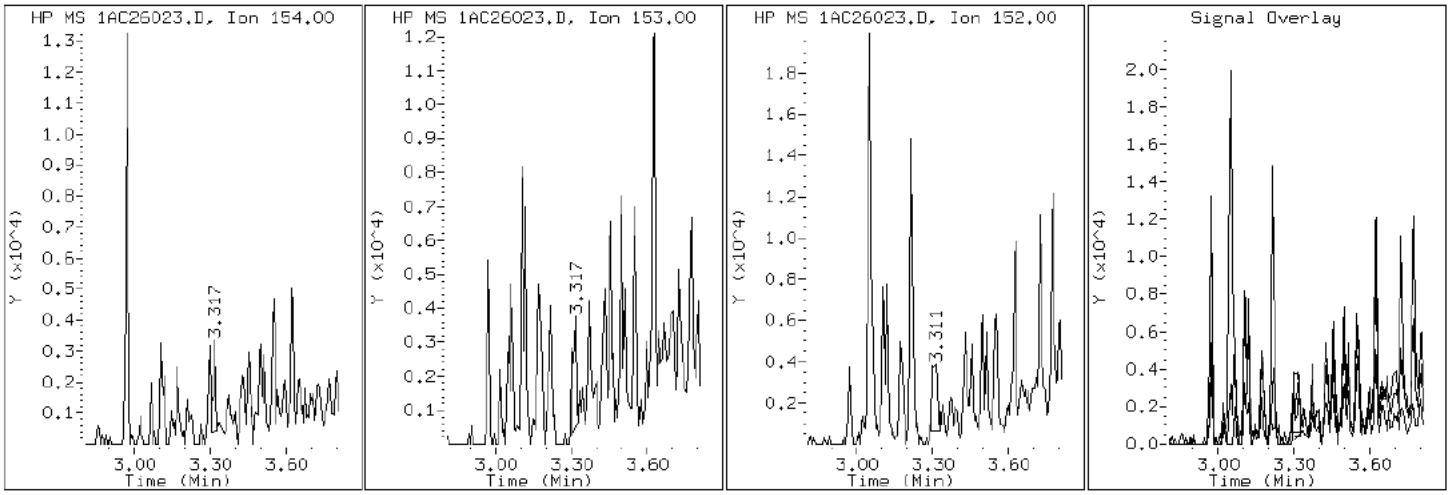
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

7 Acenaphthene



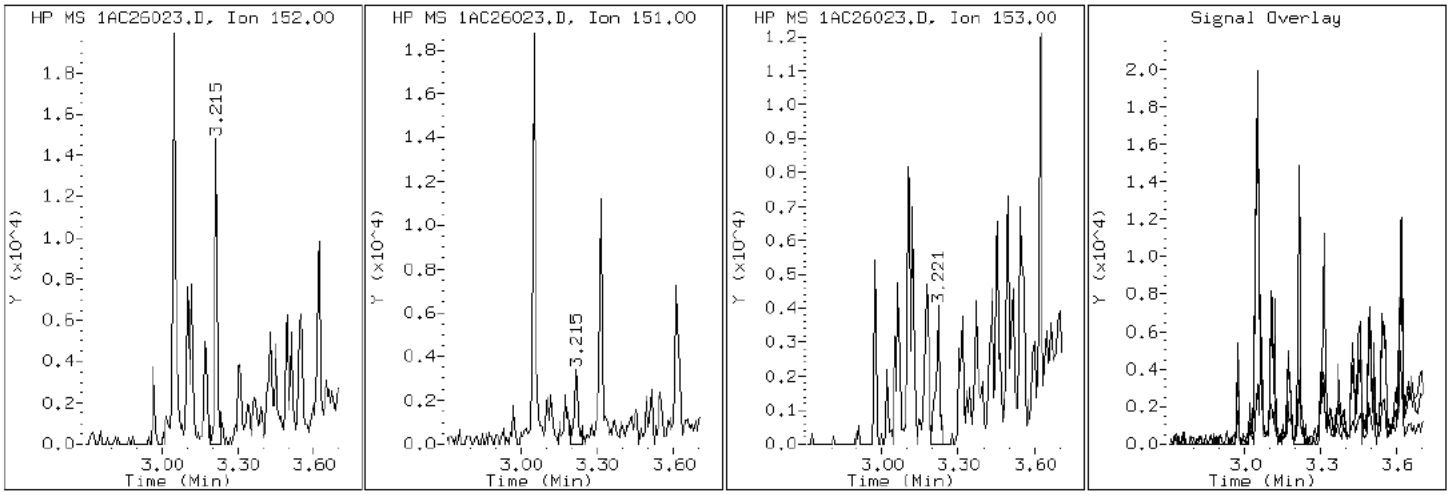
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

5 Acenaphthylene



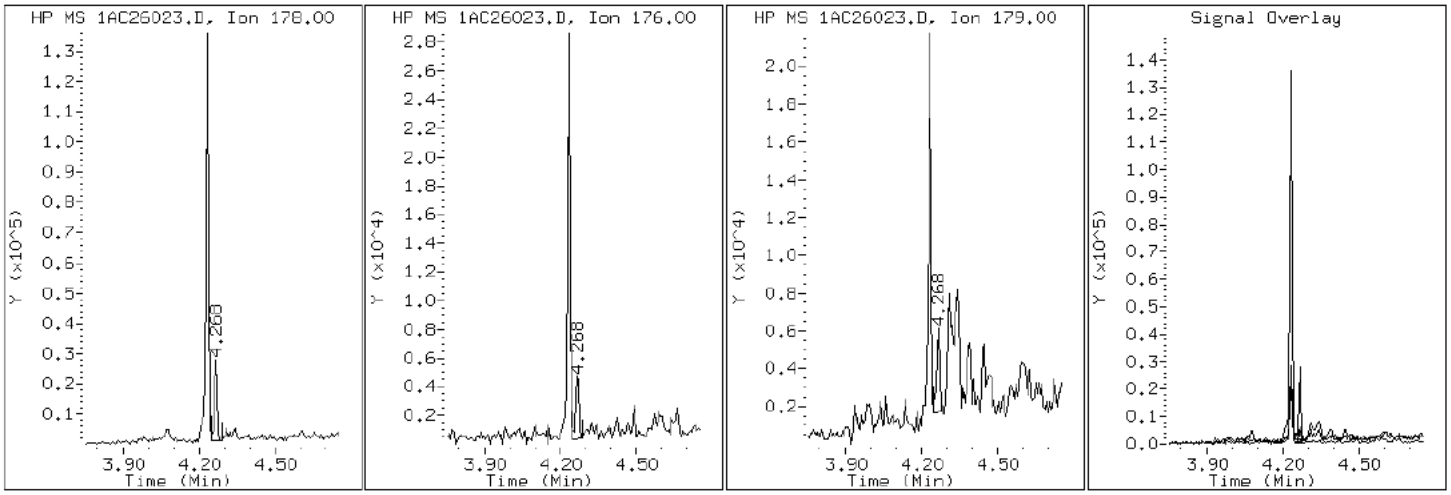
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

12 Anthracene



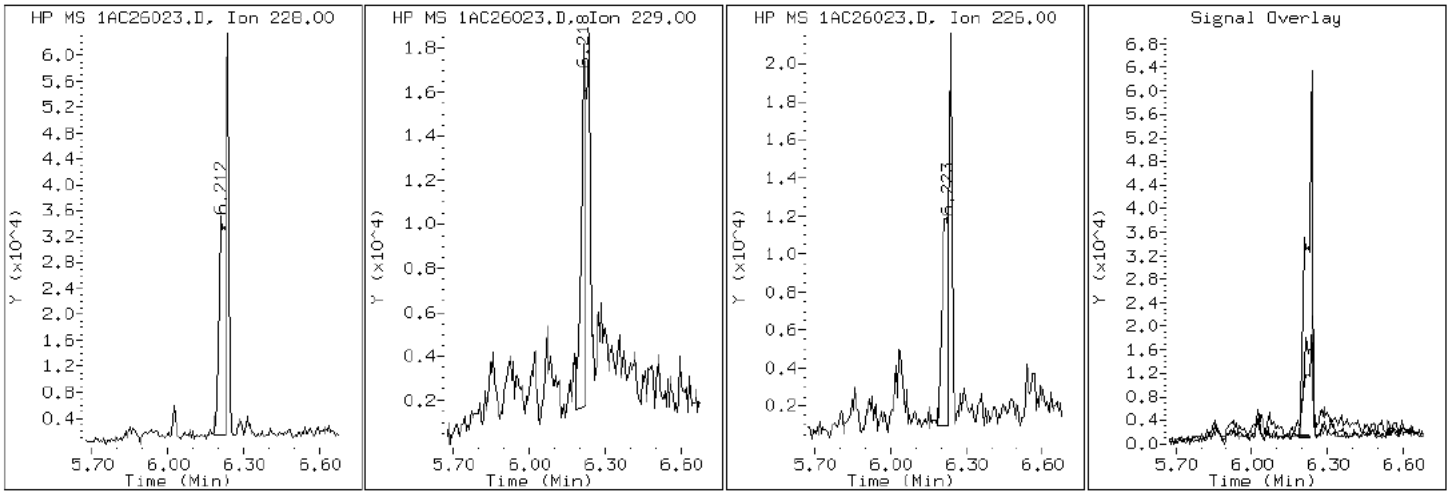
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

17 Benzo(a)anthracene



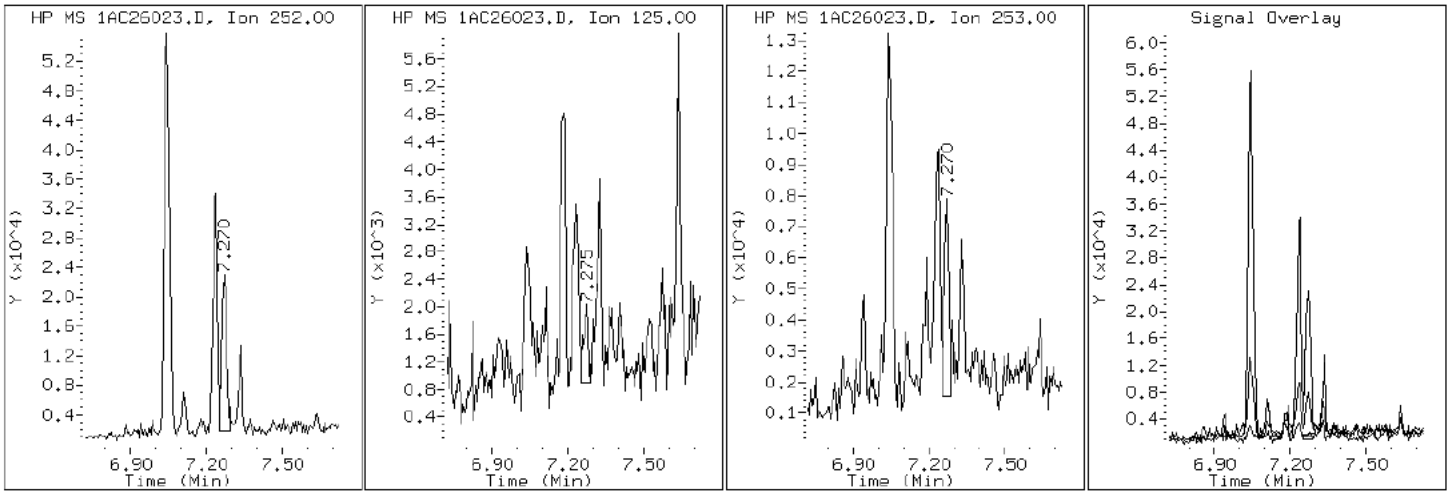
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

22 Benzo(a)pyrene



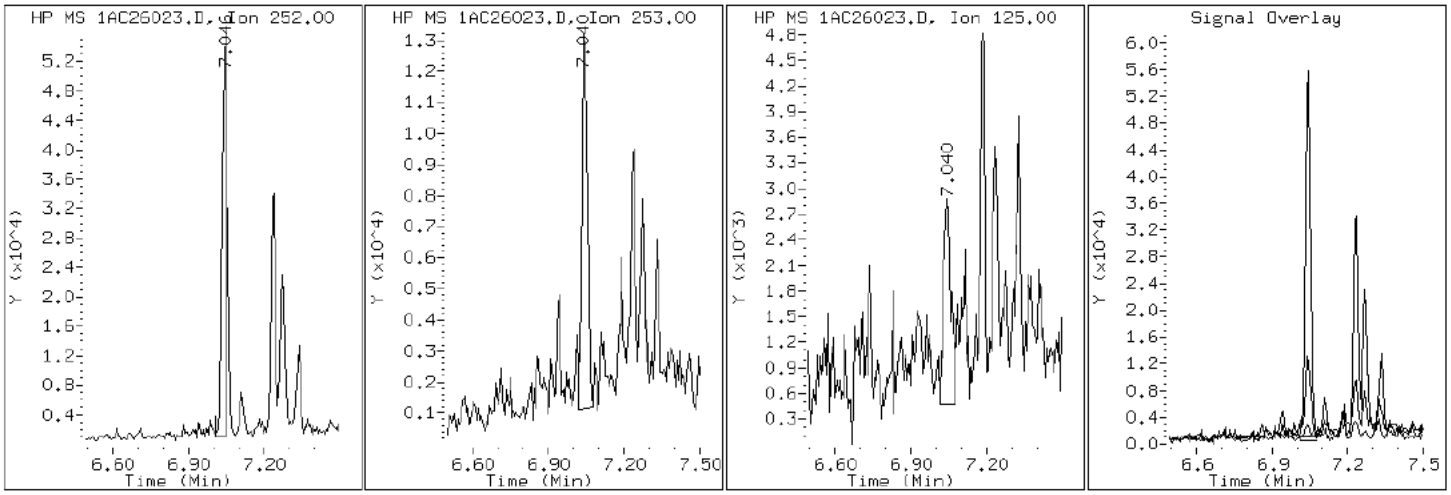
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

20 Benzo(b)fluoranthene



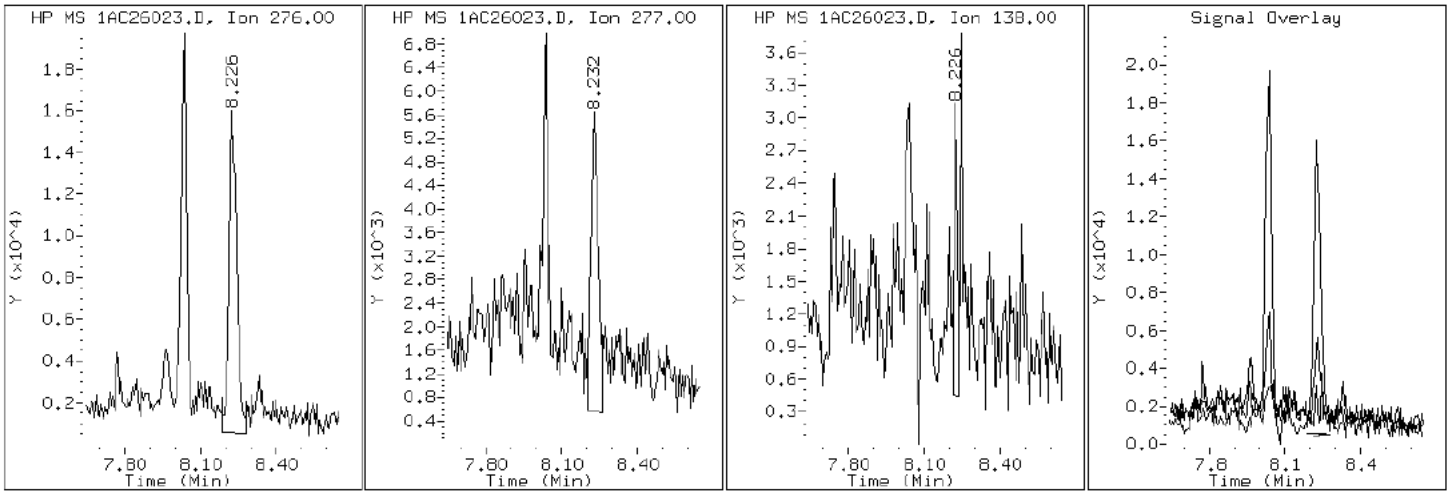
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

26 Benzo(g,h,i)perylene



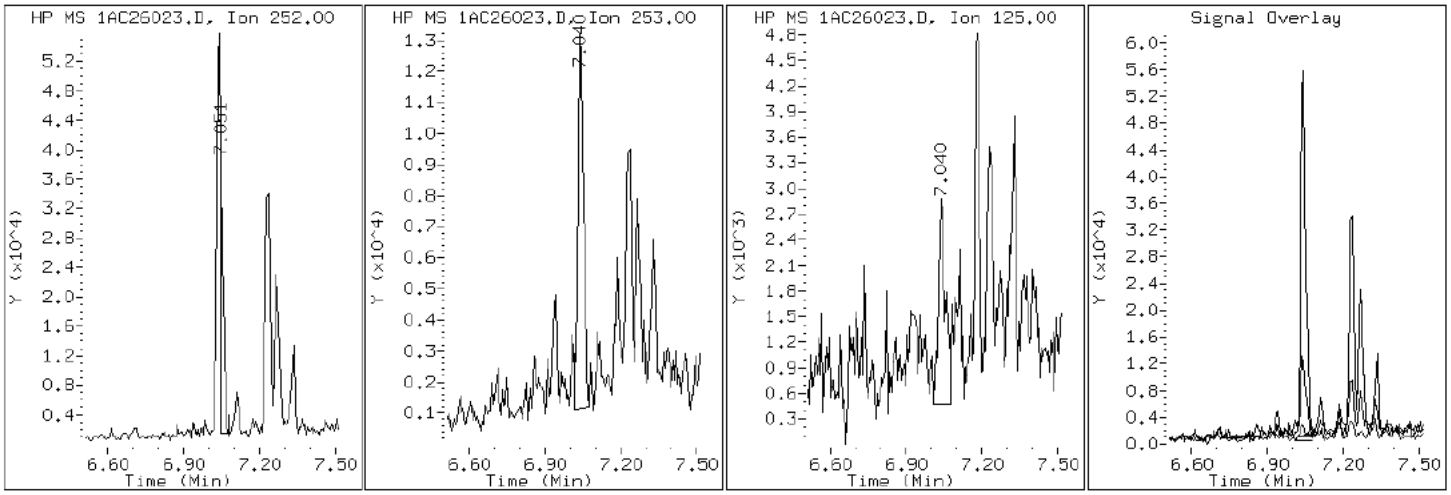
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

21 Benzo(k)fluoranthene



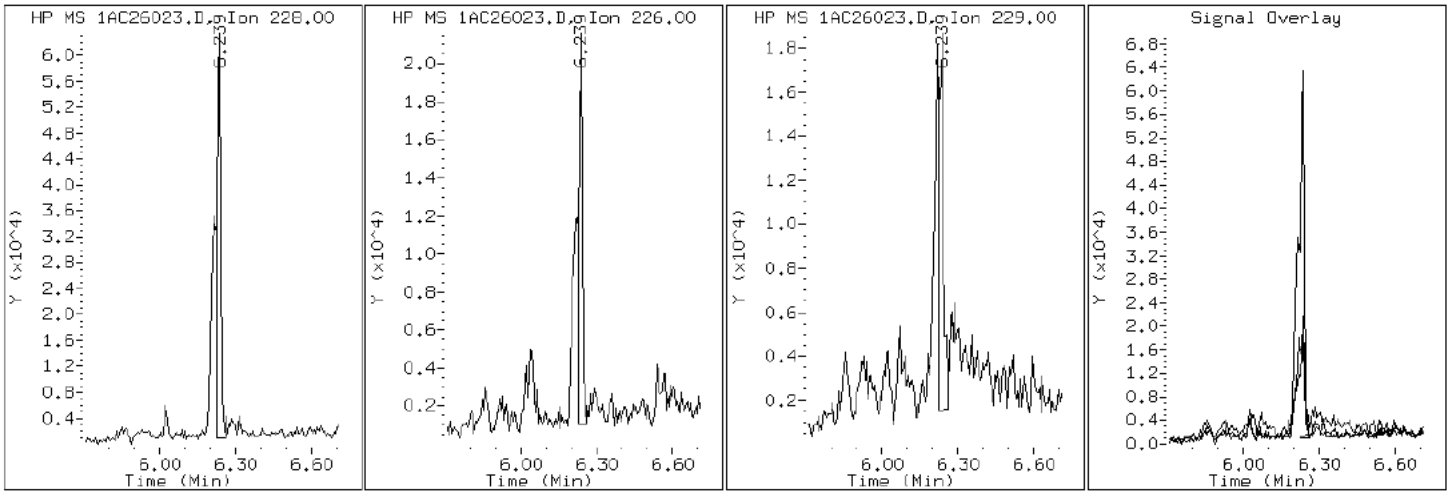
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

19 Chrysene



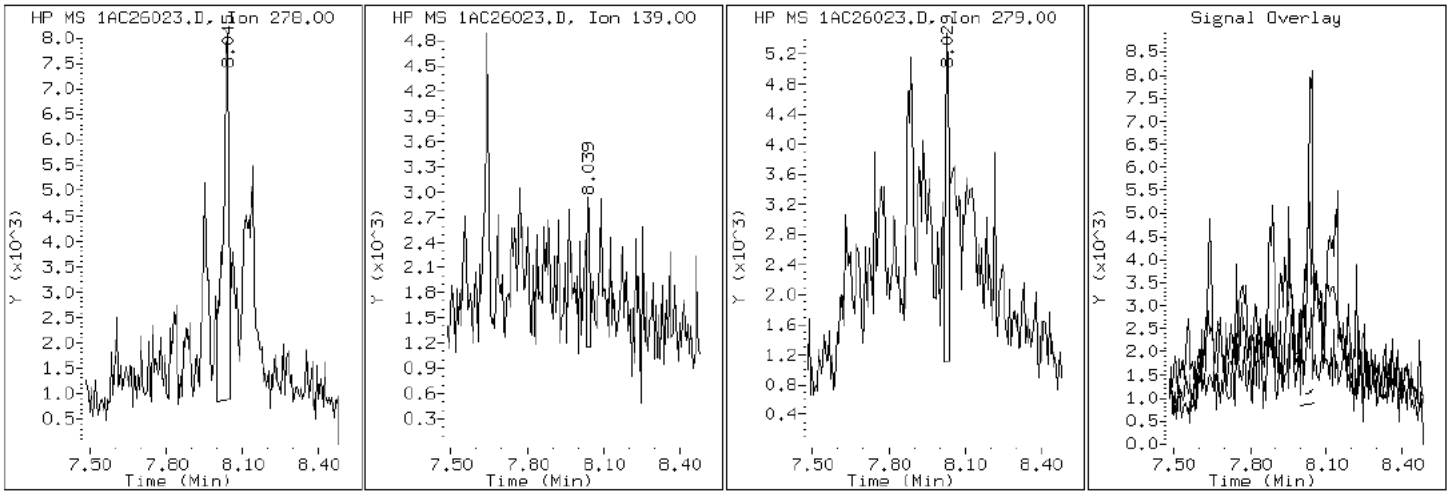
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

25 Dibenzo(a,h)anthracene



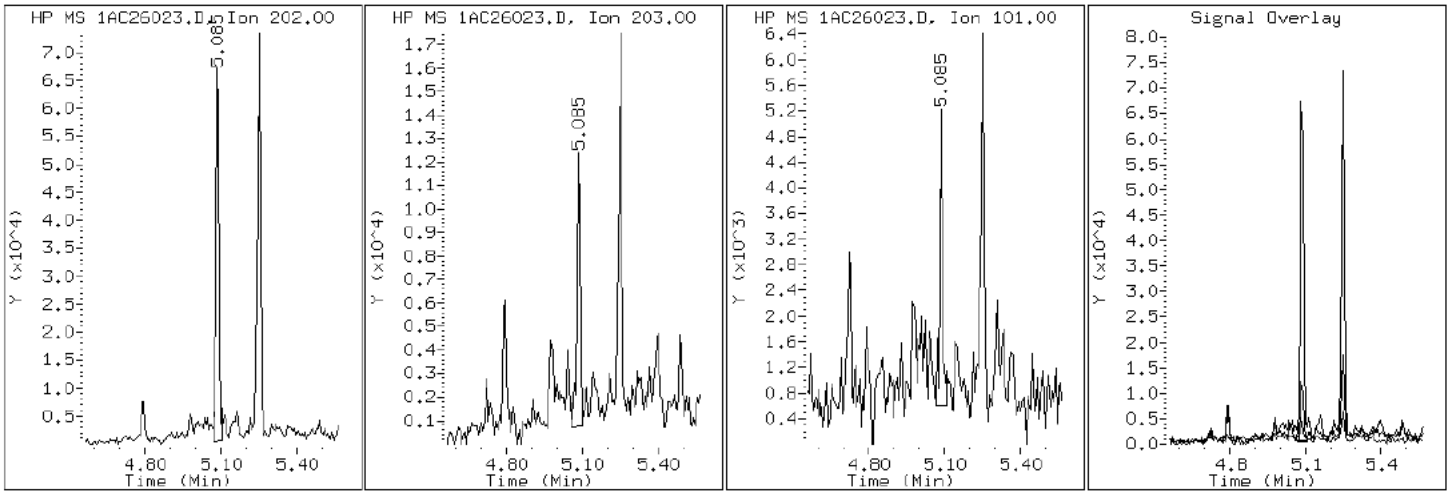
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

15 Fluoranthene



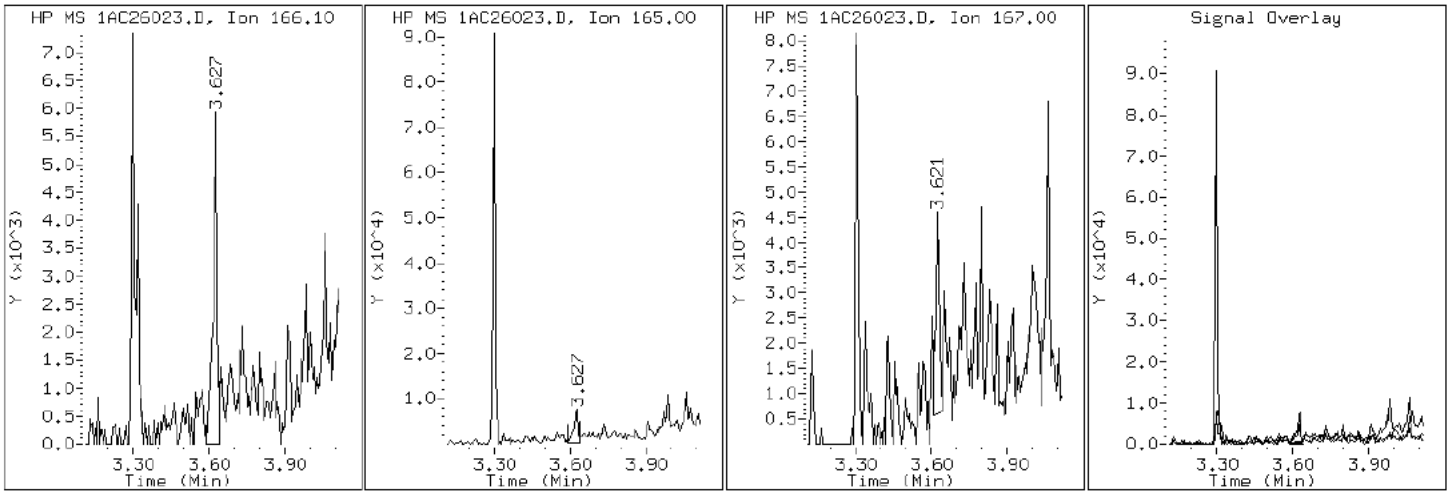
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

9 Fluorene



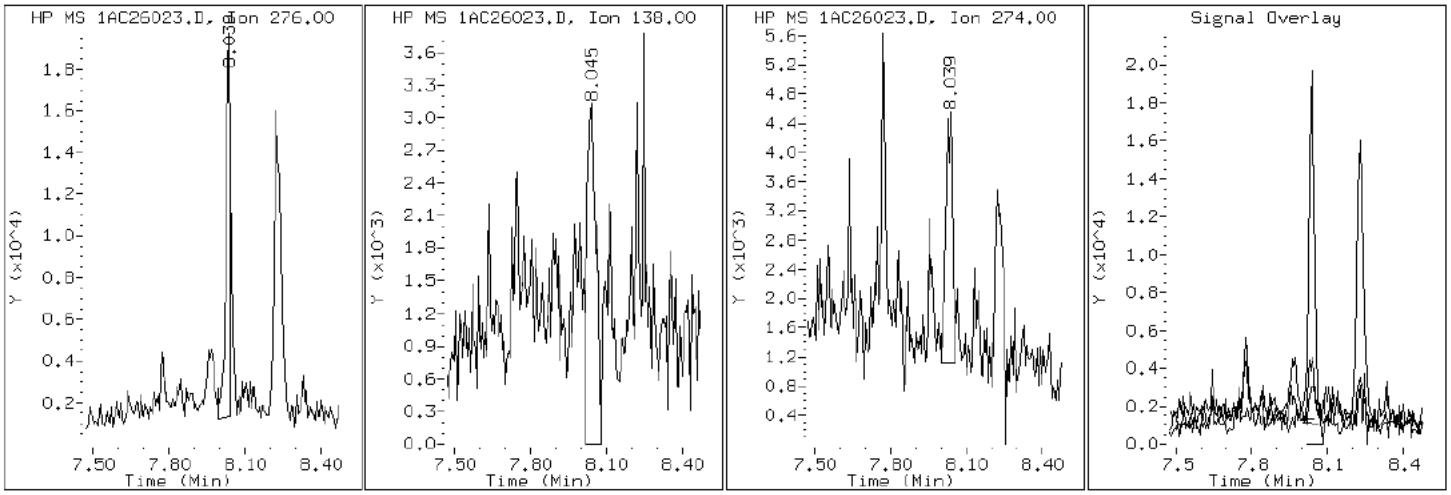
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

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



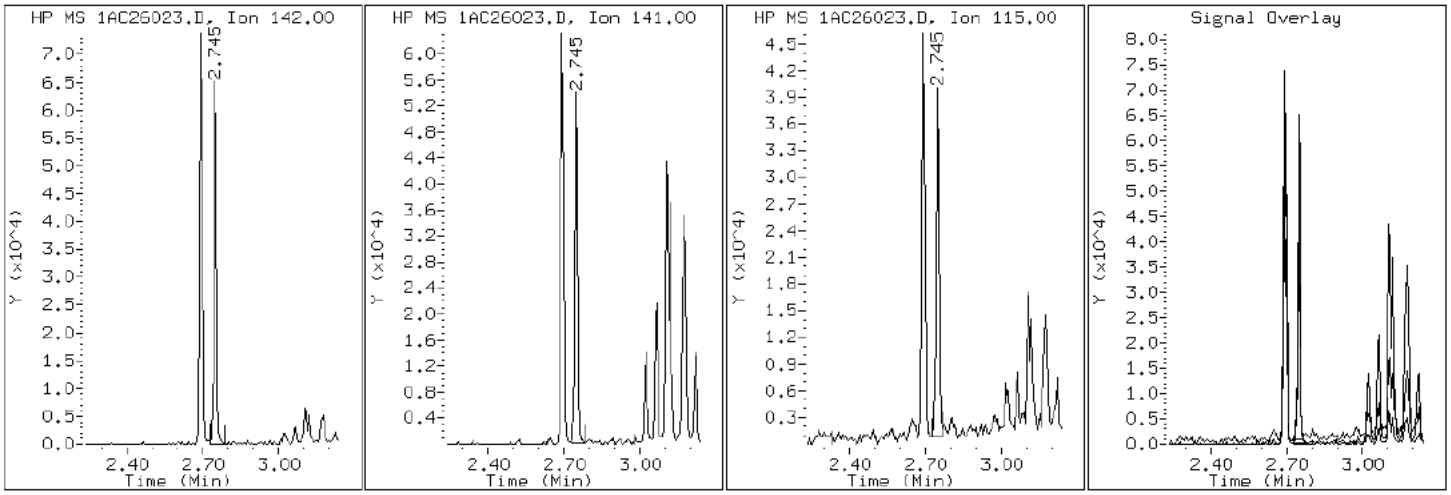
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

4 1-Methylnaphthalene



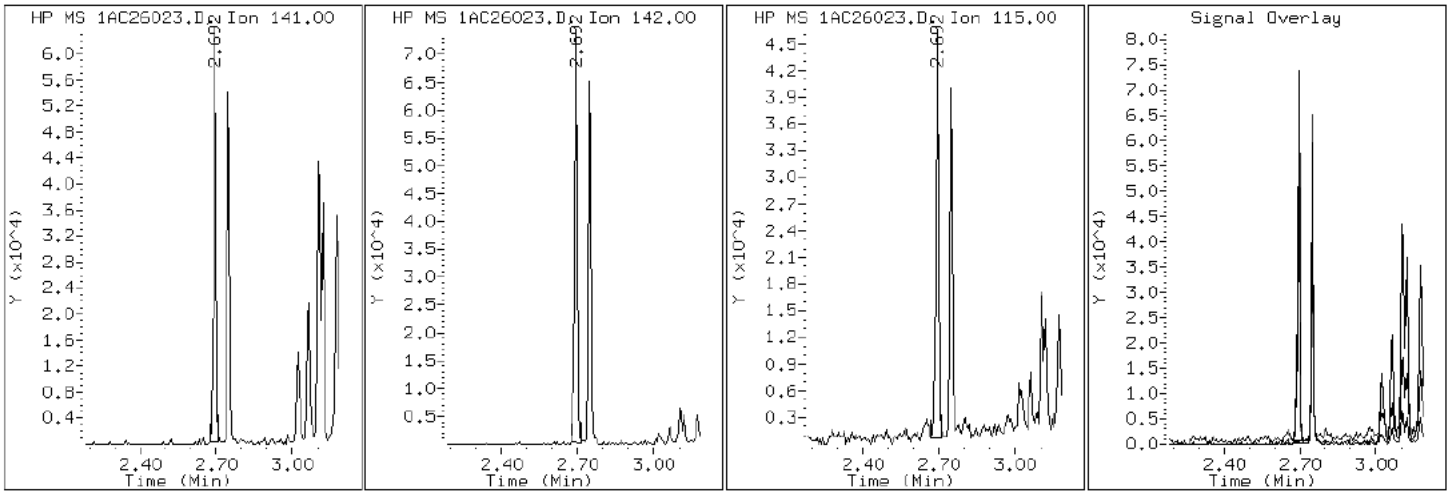
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

3 2-Methylnaphthalene



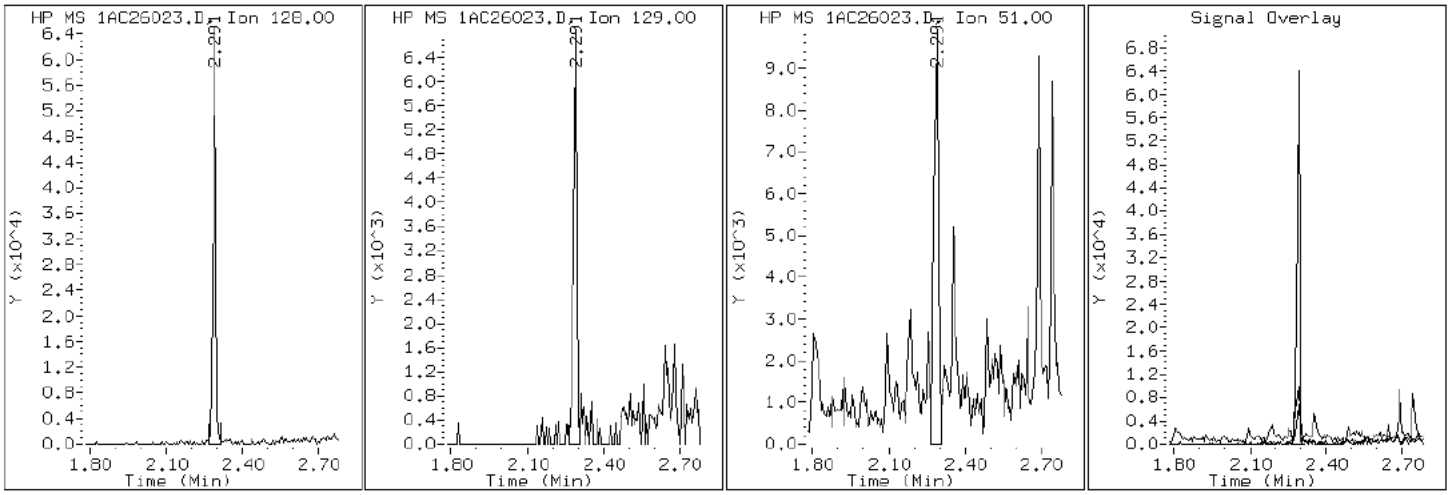
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

2 Naphthalene



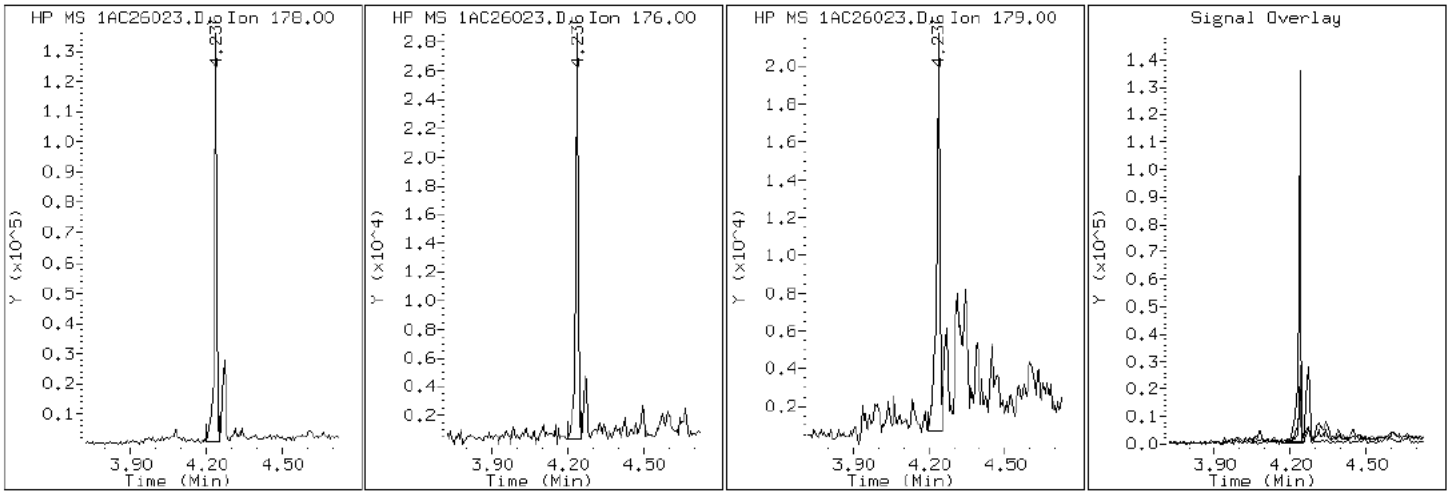
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

11 Phenanthrene



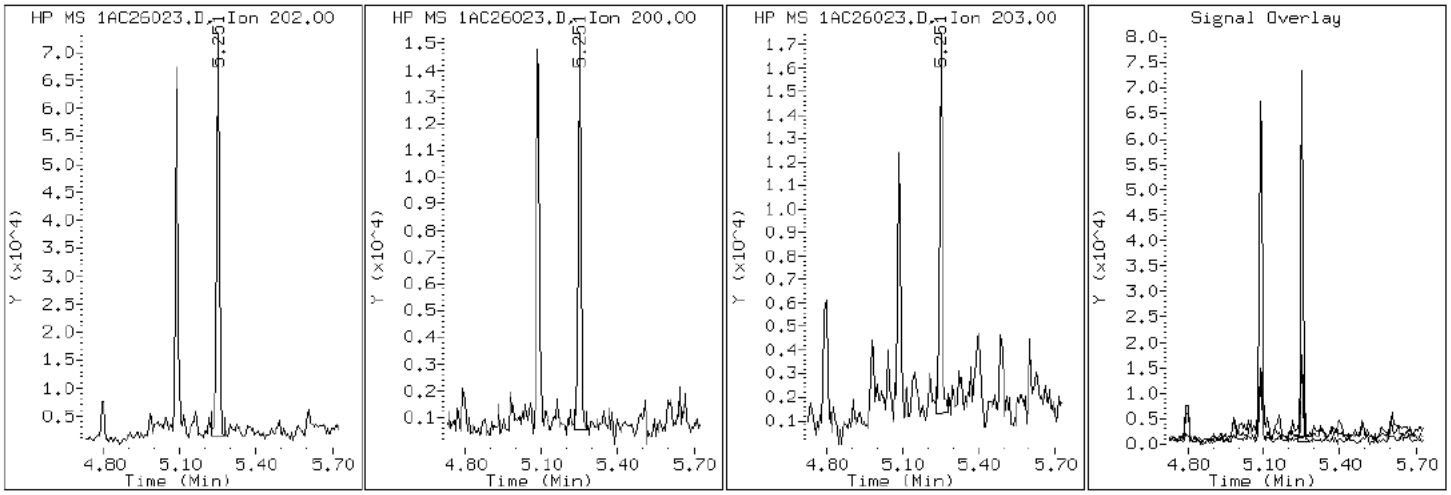
Data File: 1AC26023.D

Date: 26-MAR-2013 18:24

Client ID: CV0766A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-29-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AC26023.D
Inj. Date and Time: 26-MAR-2013 18:24
Instrument ID: BSMA5973.i
Client ID: CV0766A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/28/2013

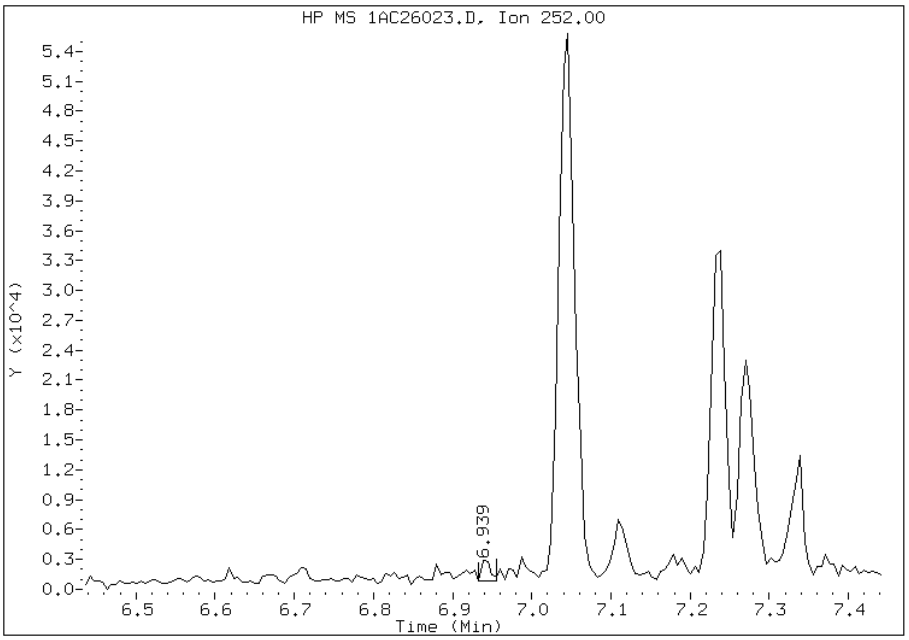
Processing Integration Results

RT: 6.94

Response: 1585

Amount: 1

Conc: 123



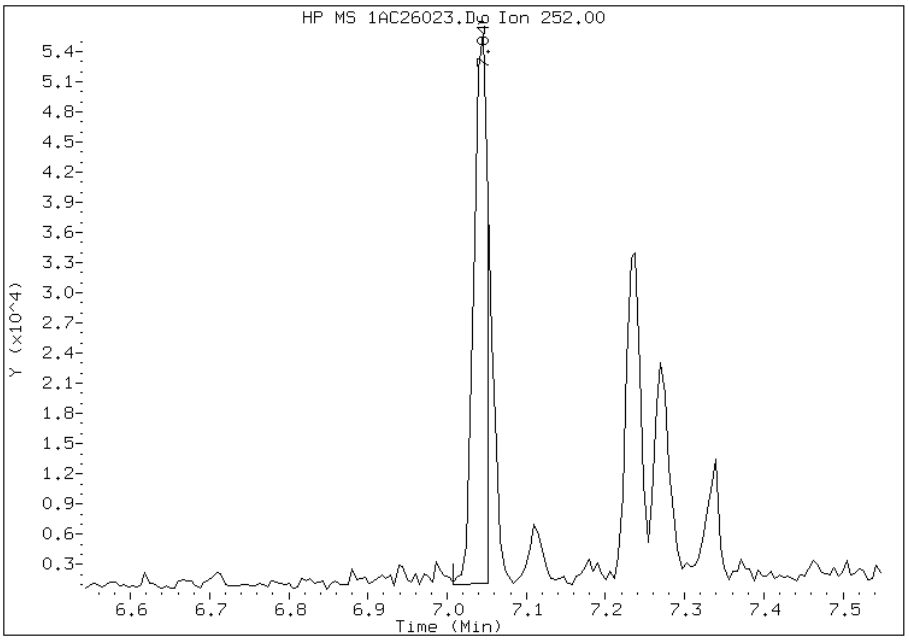
Manual Integration Results

RT: 7.05

Response: 64298

Amount: 5

Conc: 484



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC26023.D
Inj. Date and Time: 26-MAR-2013 18:24
Instrument ID: BSMA5973.i
Client ID: CV0766A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/28/2013

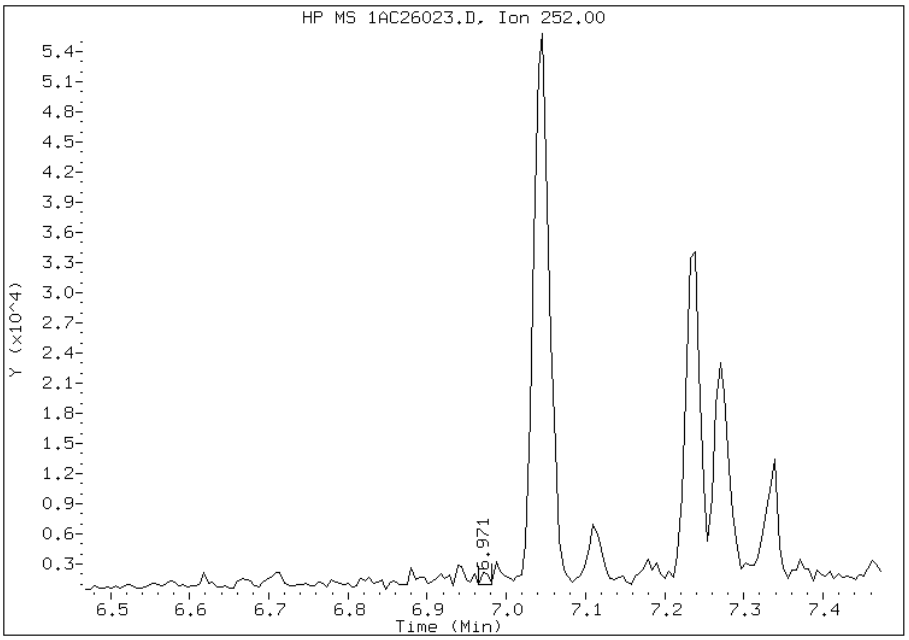
Processing Integration Results

RT: 6.97

Response: 779

Amount: 0

Conc: 5



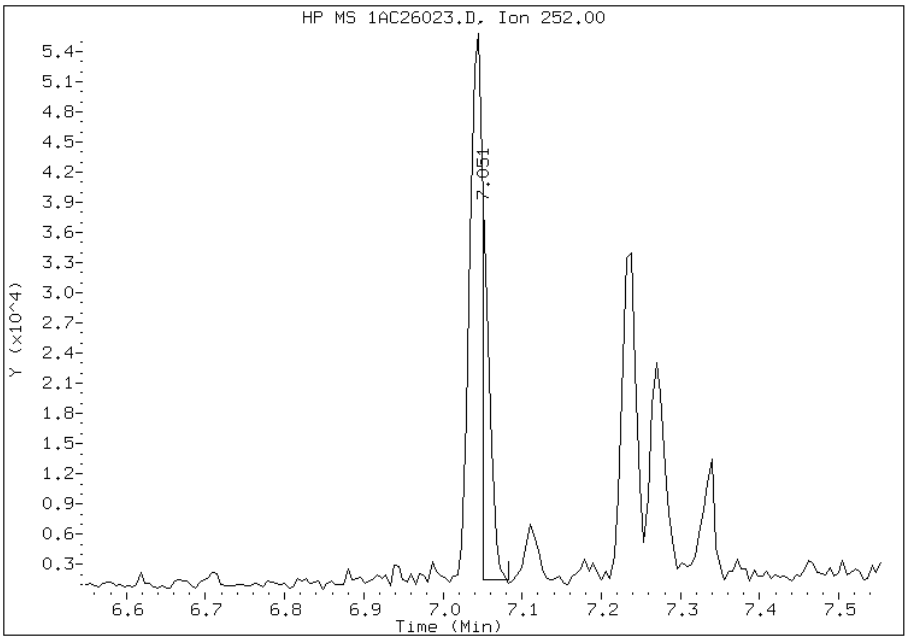
Manual Integration Results

RT: 7.05

Response: 25627

Amount: 2

Conc: 151



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC26023.D
Inj. Date and Time: 26-MAR-2013 18:24
Instrument ID: BSMA5973.i
Client ID: CV0766A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

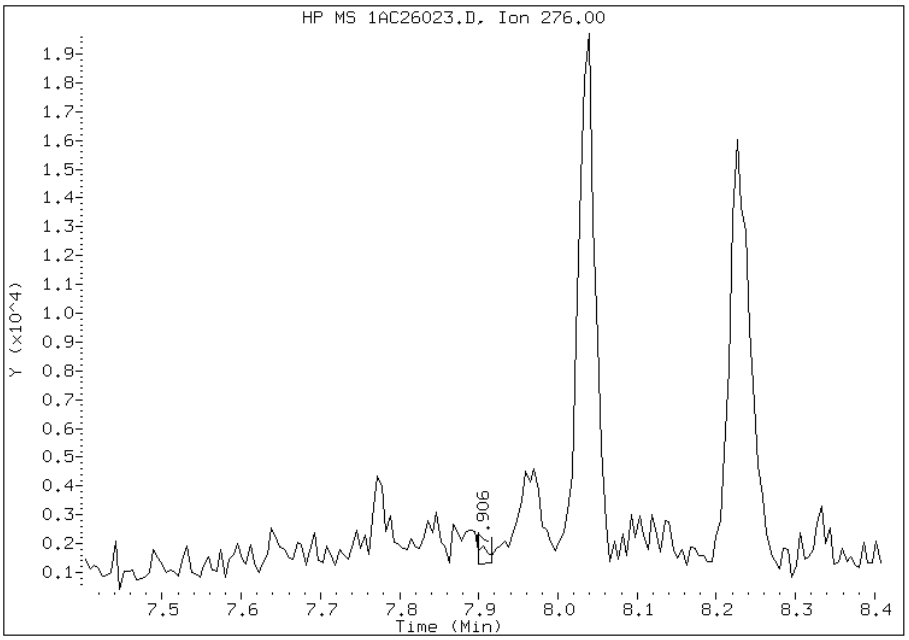
Processing Integration Results

RT: 7.91

Response: 514

Amount: 0

Conc: 4



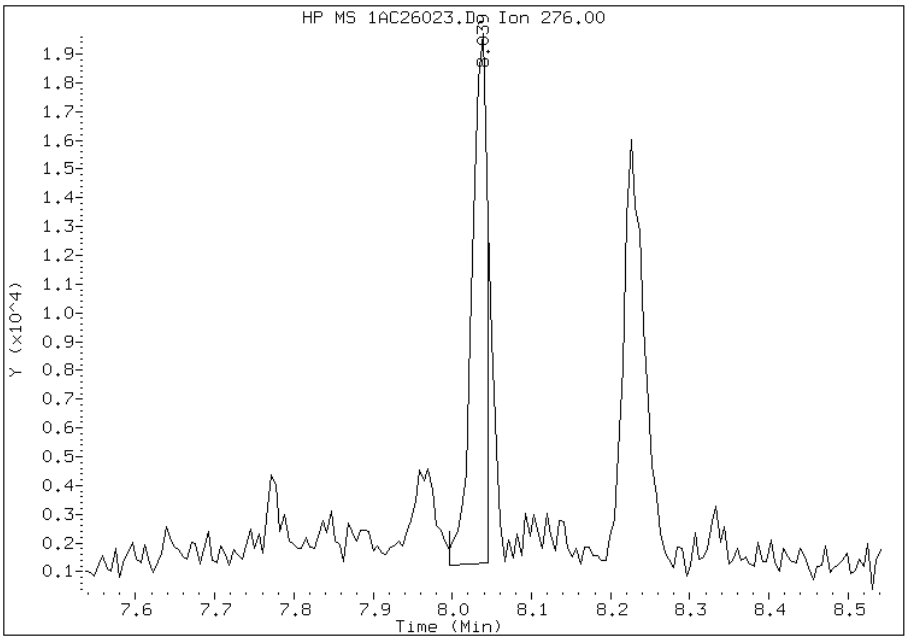
Manual Integration Results

RT: 8.04

Response: 24265

Amount: 2

Conc: 182



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0968A-CS-SP | Lab Sample ID: 680-88420-30

Matrix: Solid | Lab File ID: 1AC26024.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 15:21

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 14.95(g) | Date Analyzed: 03/26/2013 18:39

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

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

% Moisture: 19.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135850 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	31	J	50	6.2
120-12-7	Anthracene	23		10	5.2
56-55-3	Benzo[a]anthracene	130		9.9	4.8
50-32-8	Benzo[a]pyrene	76		13	6.5
205-99-2	Benzo[b]fluoranthene	190		15	7.6
191-24-2	Benzo[g,h,i]perylene	55		25	5.5
207-08-9	Benzo[k]fluoranthene	56		9.9	4.5
218-01-9	Chrysene	110		11	5.6
53-70-3	Dibenz(a,h)anthracene	28		25	5.1
206-44-0	Fluoranthene	150		25	5.0
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	54		25	8.8
90-12-0	1-Methylnaphthalene	13	J	50	5.5
91-57-6	2-Methylnaphthalene	88		50	8.8
91-20-3	Naphthalene	18	J	50	5.5
85-01-8	Phenanthrene	60		9.9	4.8
129-00-0	Pyrene	140		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	56		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26024.D
Lab Smp Id: 680-88420-A-30-A Client Smp ID: CV0968A-CS-SP
Inj Date : 26-MAR-2013 18:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88420-A-30-A
Misc Info : 680-88420-A-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	19.189	% 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	2.282	2.272	(1.000)	658192	40.0000	
* 6 Acenaphthene-d10	164	3.302	3.287	(1.000)	526527	40.0000	
* 10 Phenanthrene-d10	188	4.226	4.205	(1.000)	830617	40.0000	
$ 14 o-Terphenyl	230	4.493	4.478	(1.063)	60667	5.62779	465.8270
* 18 Chrysene-d12	240	6.224	6.193	(1.000)	614622	40.0000	(H)
* 23 Perylene-d12	264	7.319	7.272	(1.000)	780404	40.0000	(H)
2 Naphthalene	128	2.292	2.282	(1.005)	3215	0.21142	17.5000(Q)
3 2-Methylnaphthalene	141	2.693	2.683	(1.180)	1700	1.06313	87.9981
4 1-Methylnaphthalene	142	2.746	2.736	(1.204)	1400	0.16011	13.2526
5 Acenaphthylene	152	3.216	3.201	(0.974)	3899	0.37326	30.8957
11 Phenanthrene	178	4.237	4.221	(1.003)	15181	0.72113	59.6896
12 Anthracene	178	4.269	4.253	(1.010)	5599	0.27429	22.7040
13 Carbazole	167	4.429	4.408	(1.048)	2266	0.12666	10.4836
15 Fluoranthene	202	5.086	5.065	(1.203)	37258	1.79043	148.1987

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.246	5.226	(0.843)	30846	1.75036	144.8822(H)
17 Benzo(a)anthracene	228	6.208	6.177	(0.997)	24461	1.54079	127.5351(H)
19 Chrysene	228	6.235	6.209	(1.002)	21505	1.35091	111.8181(H)
20 Benzo(b)fluoranthene	252	7.031	6.994	(0.961)	24773	2.35471	194.9058(MH)
21 Benzo(k)fluoranthene	252	7.036	7.015	(0.961)	14348	0.68159	56.4171(MH)
22 Benzo(a)pyrene	252	7.255	7.224	(0.991)	16733	0.91365	75.6251(H)
24 Indeno(1,2,3-cd)pyrene	276	8.008	7.972	(1.094)	10872	0.65790	54.4564(MH)
25 Dibenzo(a,h)anthracene	278	8.014	7.982	(1.095)	5490	0.33520	27.7457(H)
26 Benzo(g,h,i)perylene	276	8.195	8.148	(1.120)	11143	0.66988	55.4477(H)

QC Flag Legend

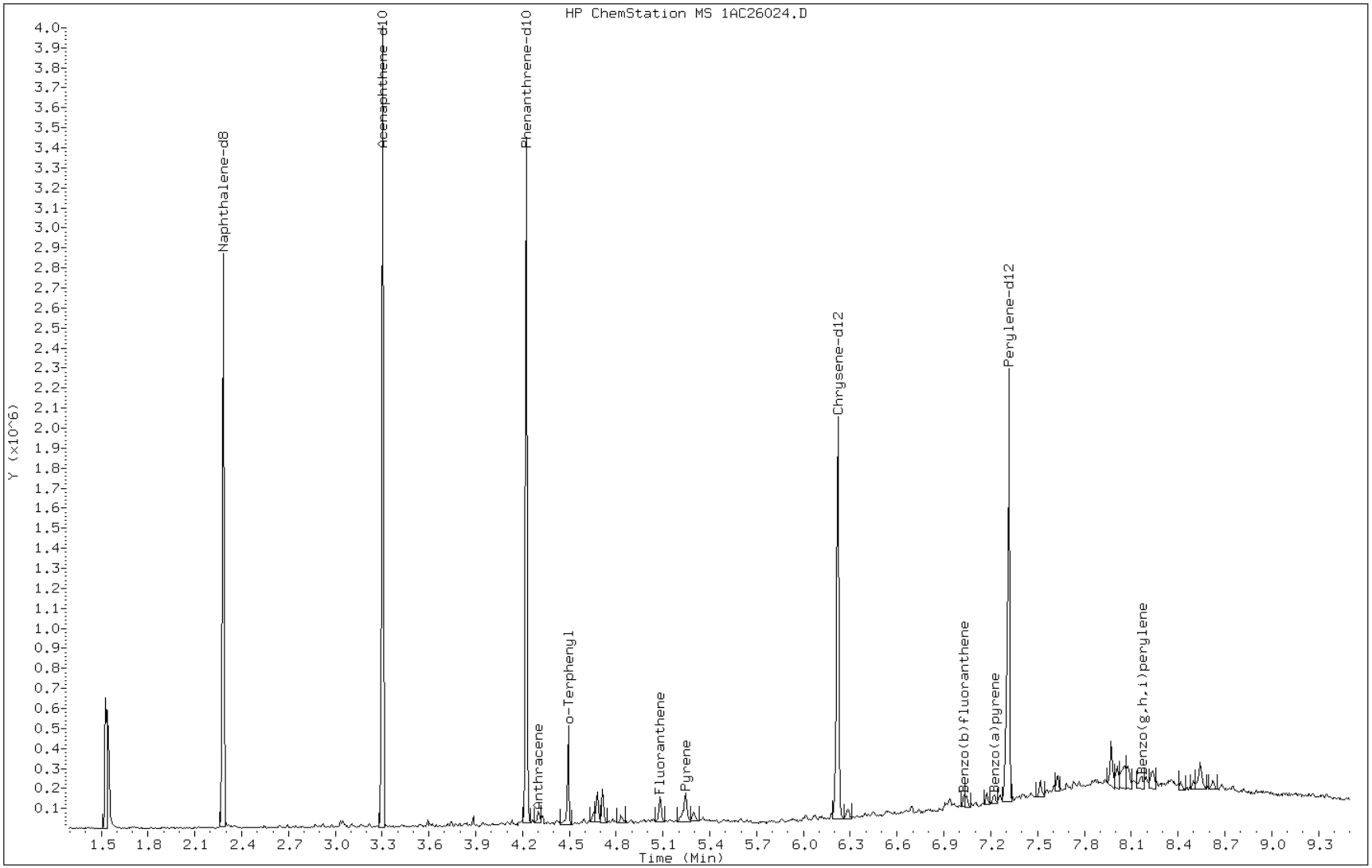
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC



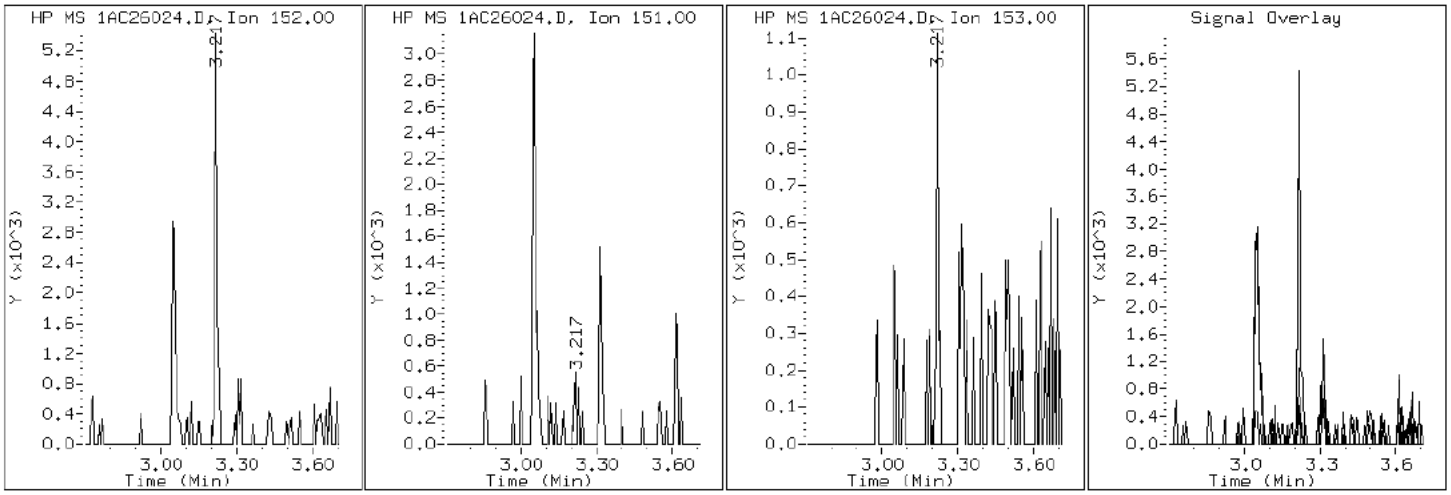
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

5 Acenaphthylene



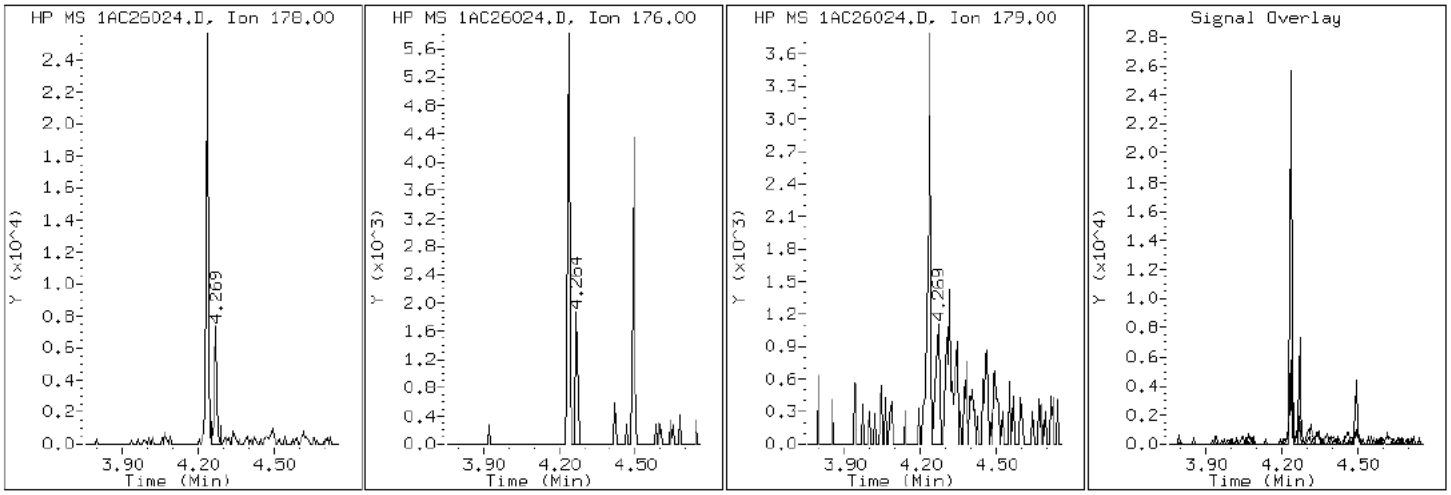
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

12 Anthracene



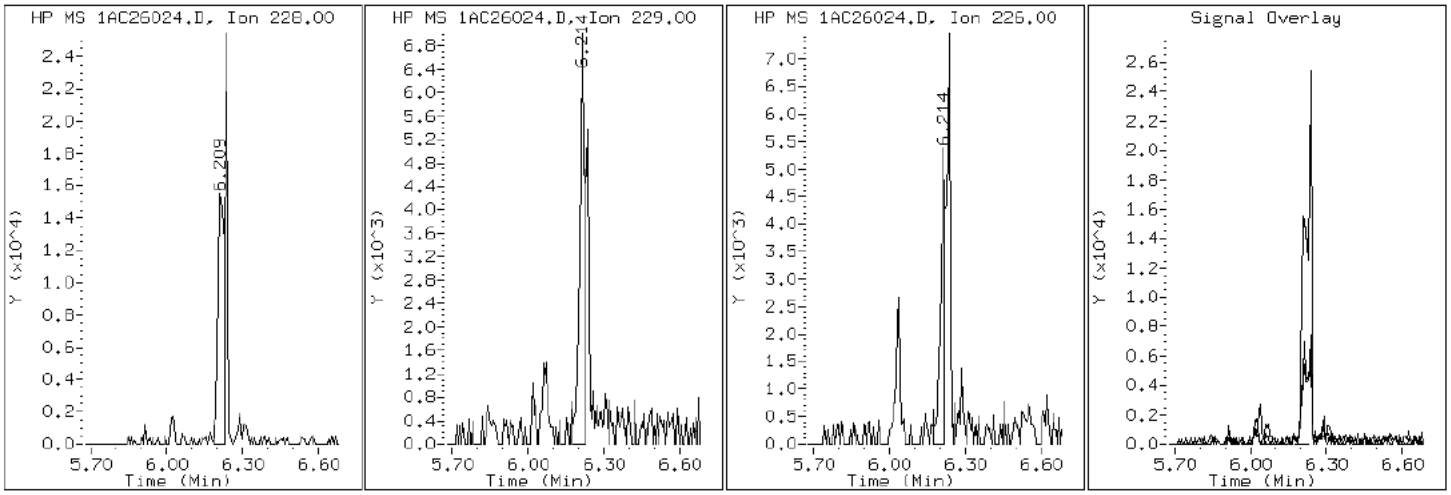
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

17 Benzo(a)anthracene



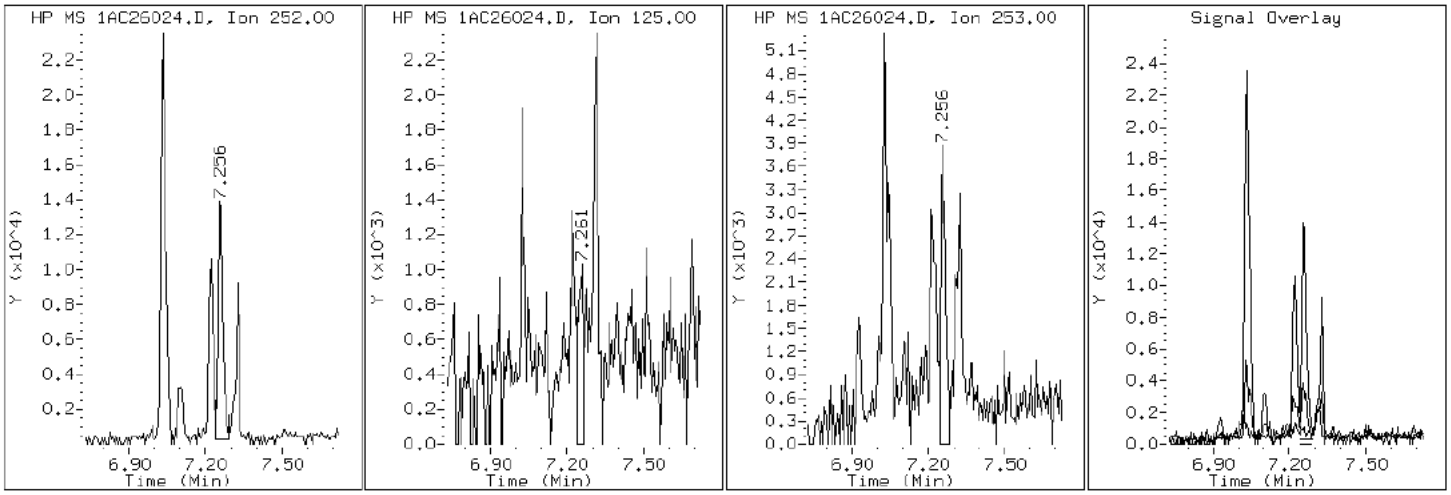
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

22 Benzo(a)pyrene



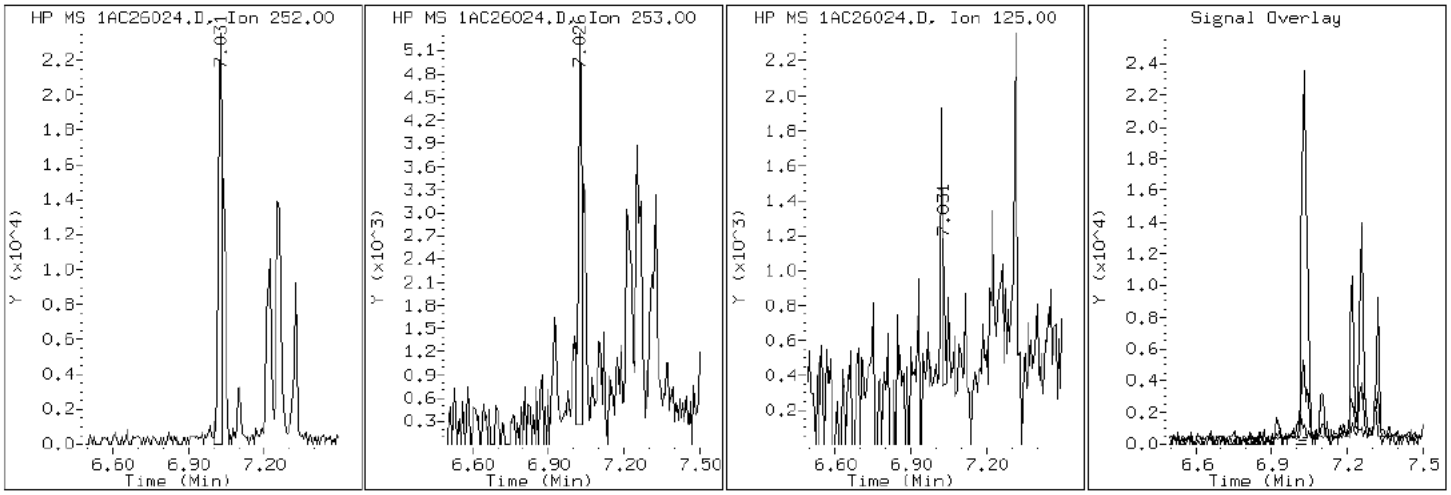
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

20 Benzo(b)fluoranthene



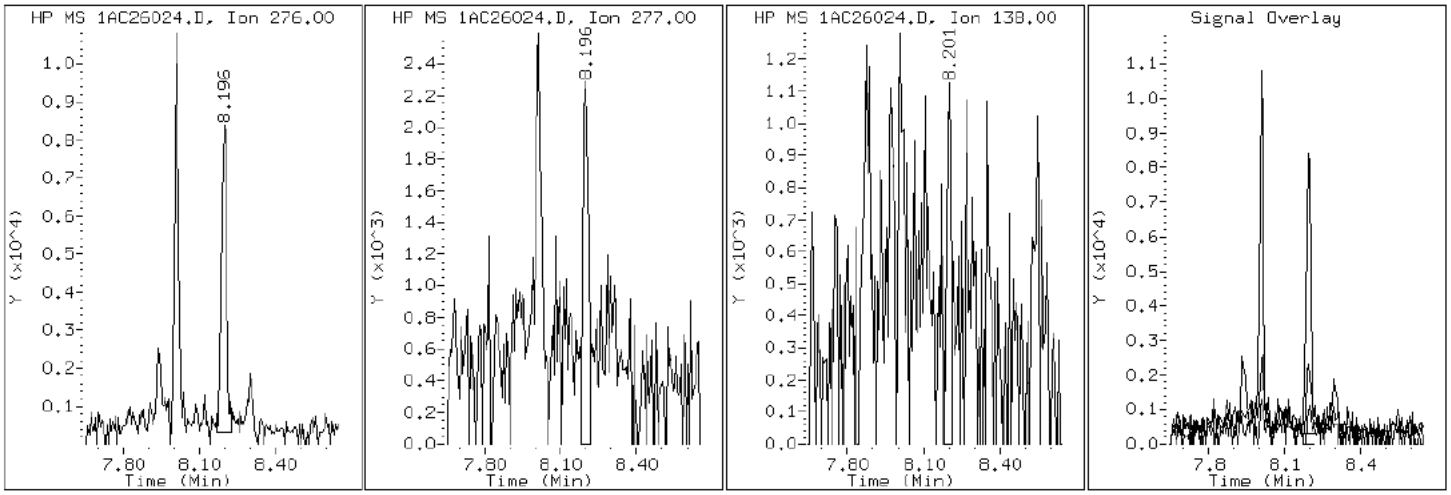
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

26 Benzo(g,h,i)perylene



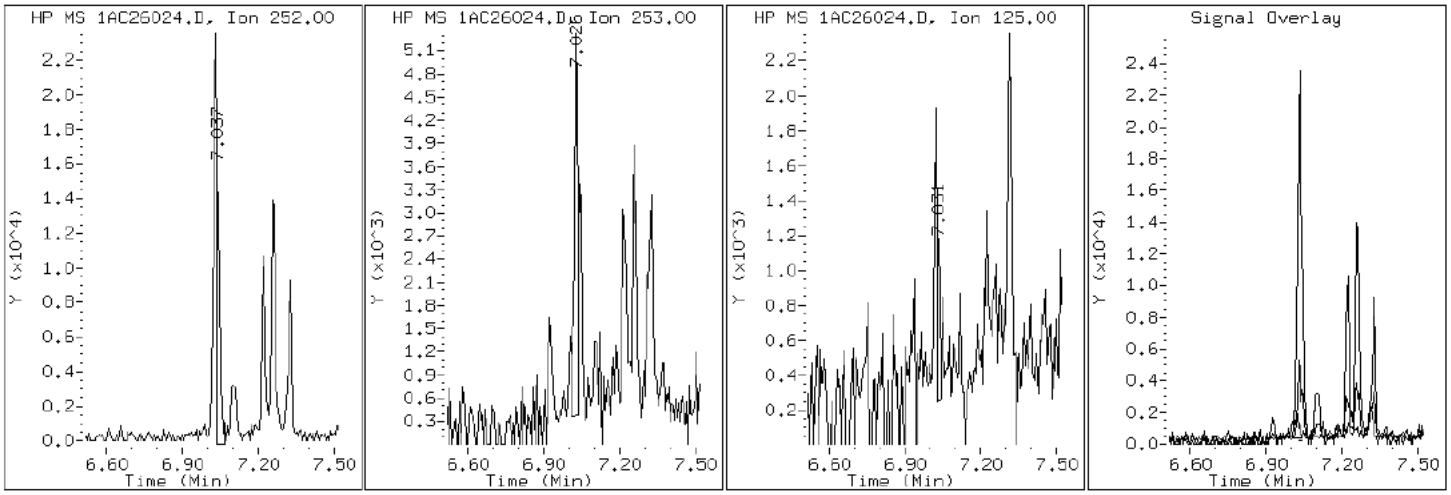
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

21 Benzo(k)fluoranthene



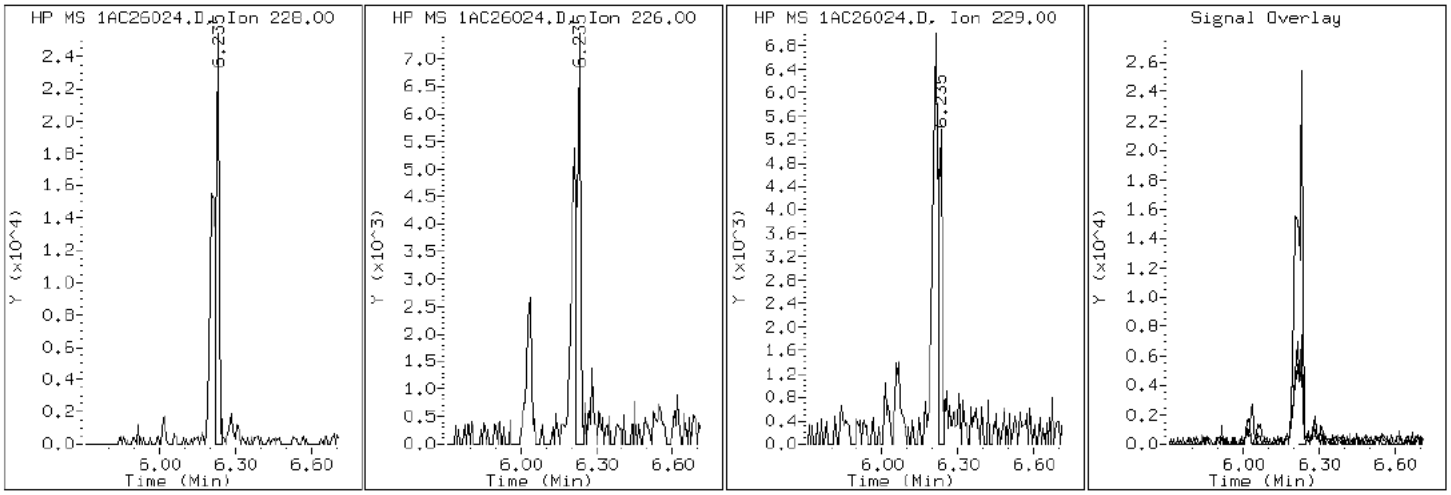
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

19 Chrysene



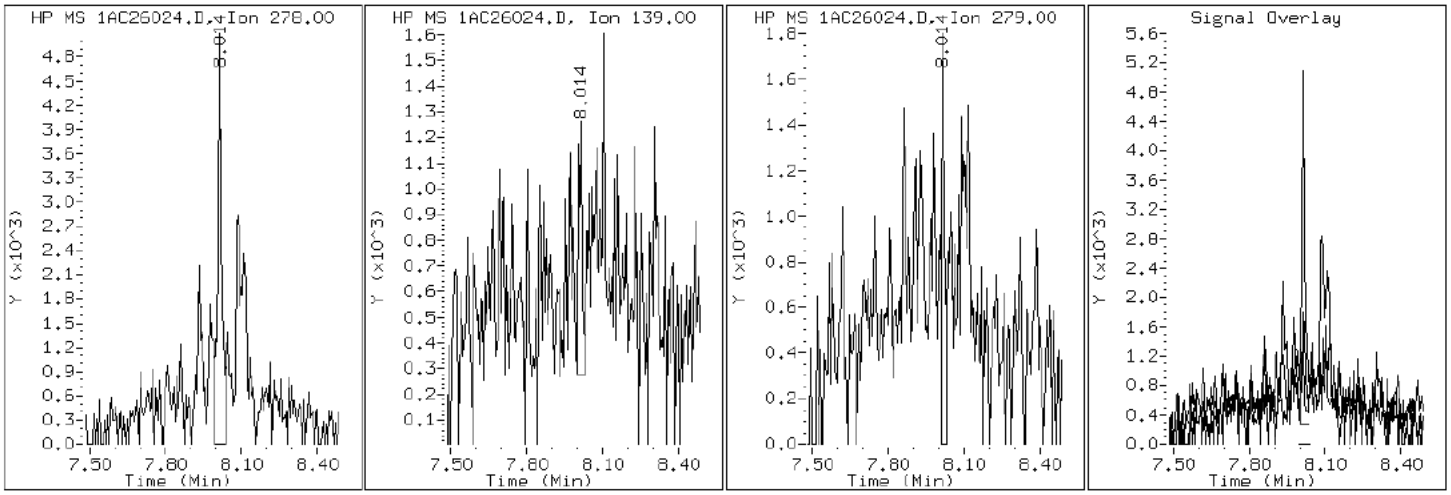
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

25 Dibenzo(a,h)anthracene



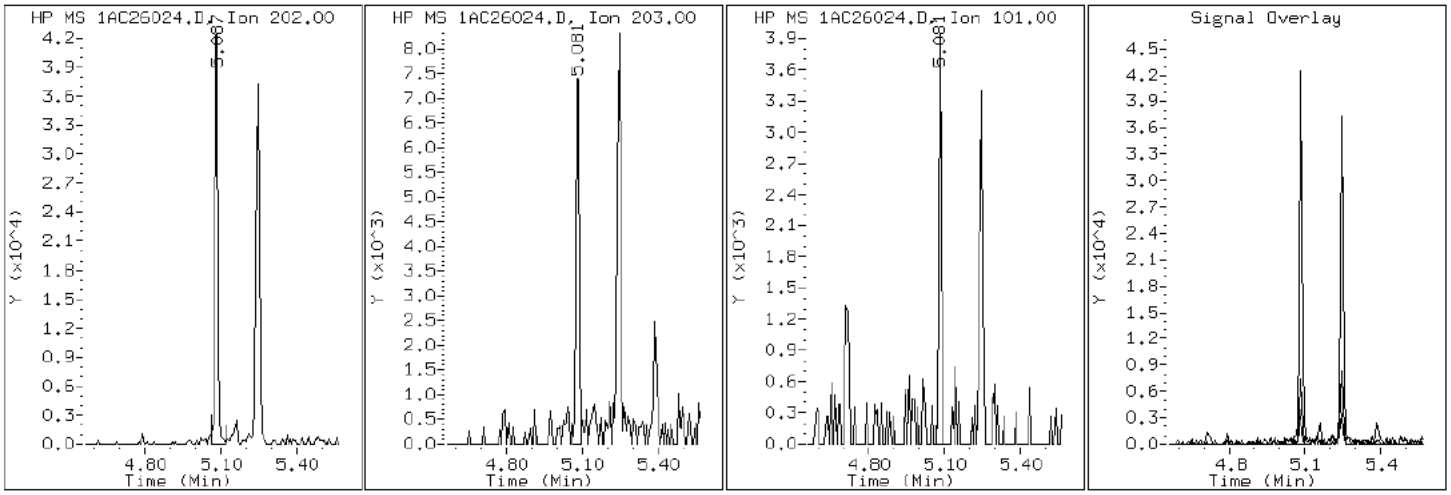
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

15 Fluoranthene



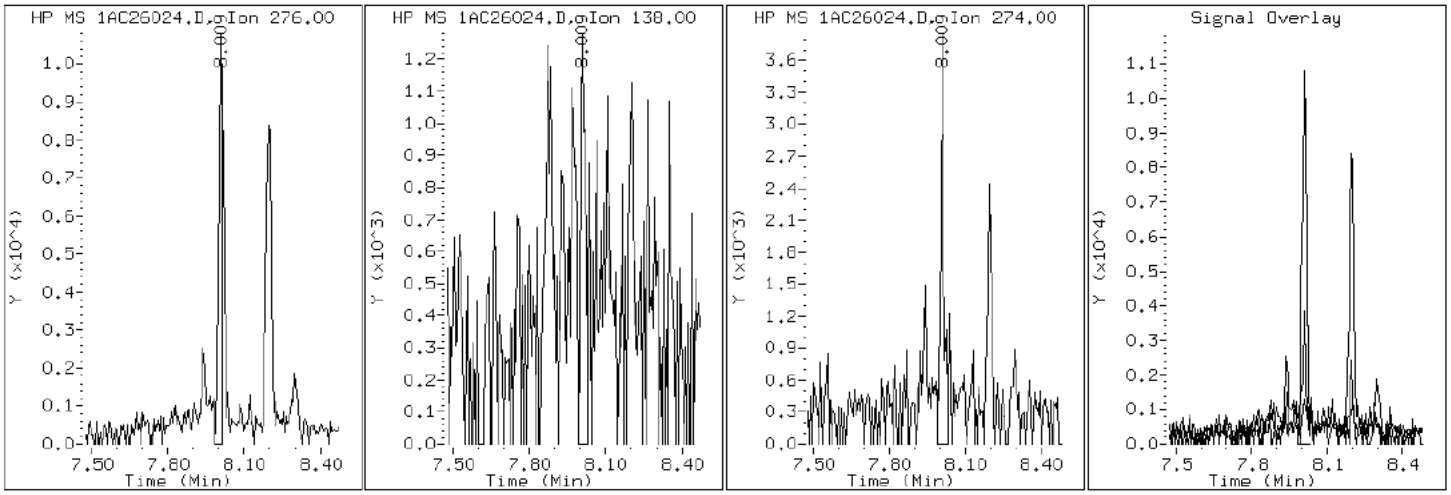
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

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



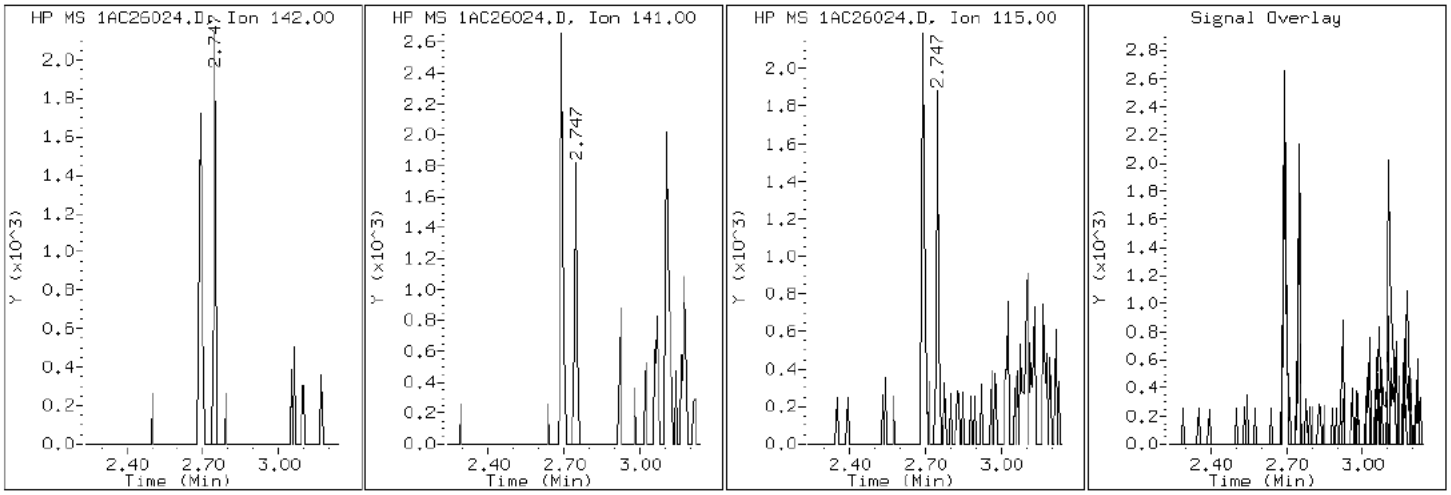
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

4 1-Methylnaphthalene



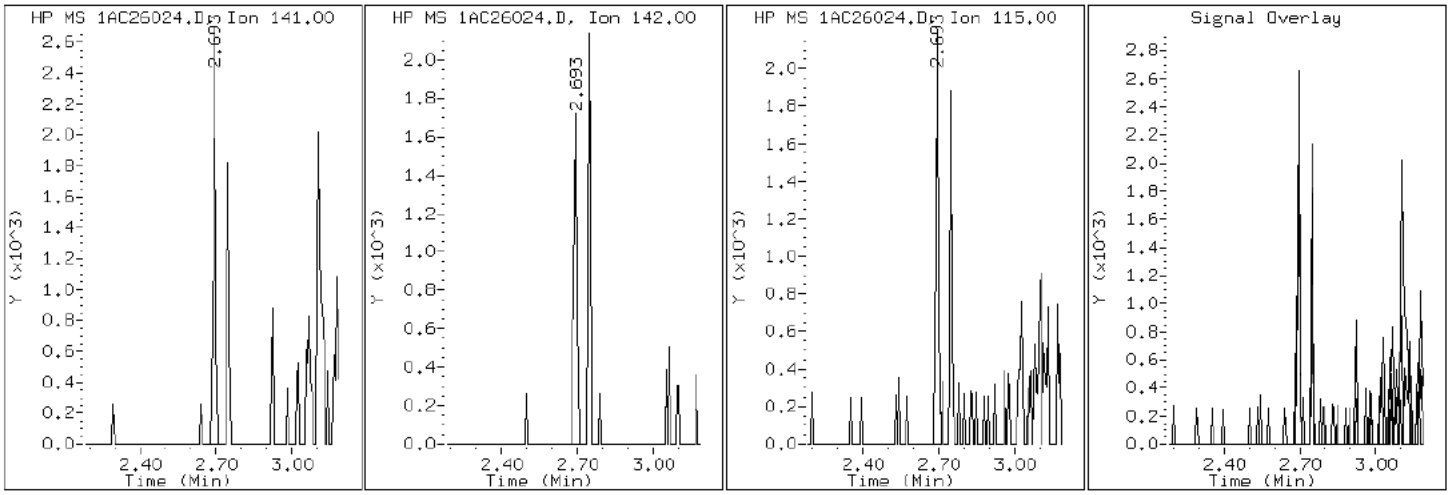
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

3 2-Methylnaphthalene



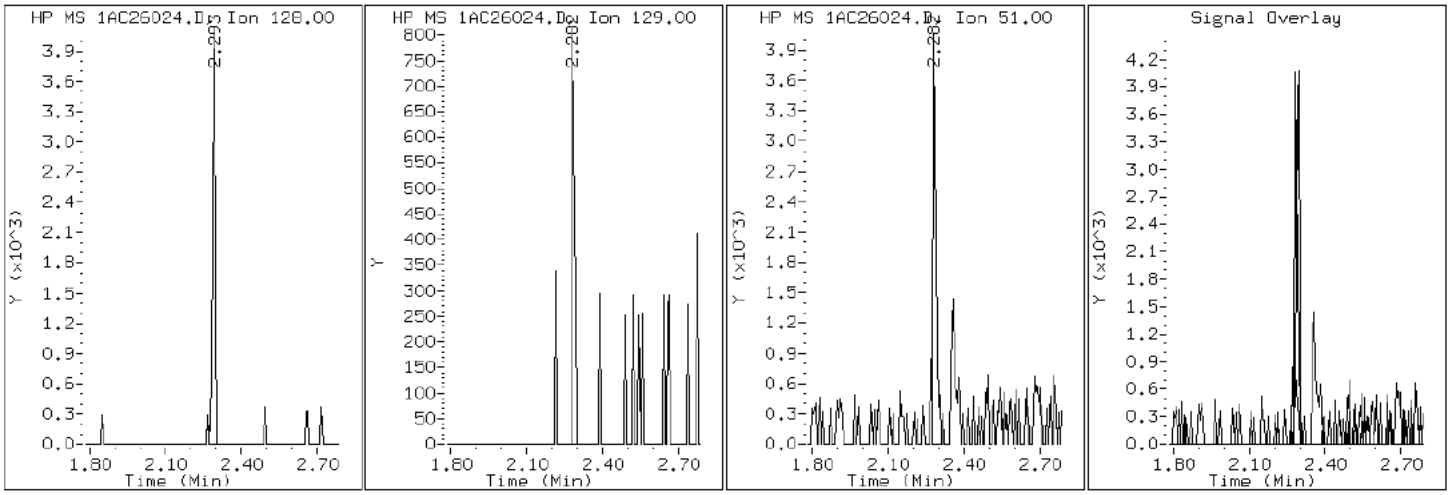
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

2 Naphthalene



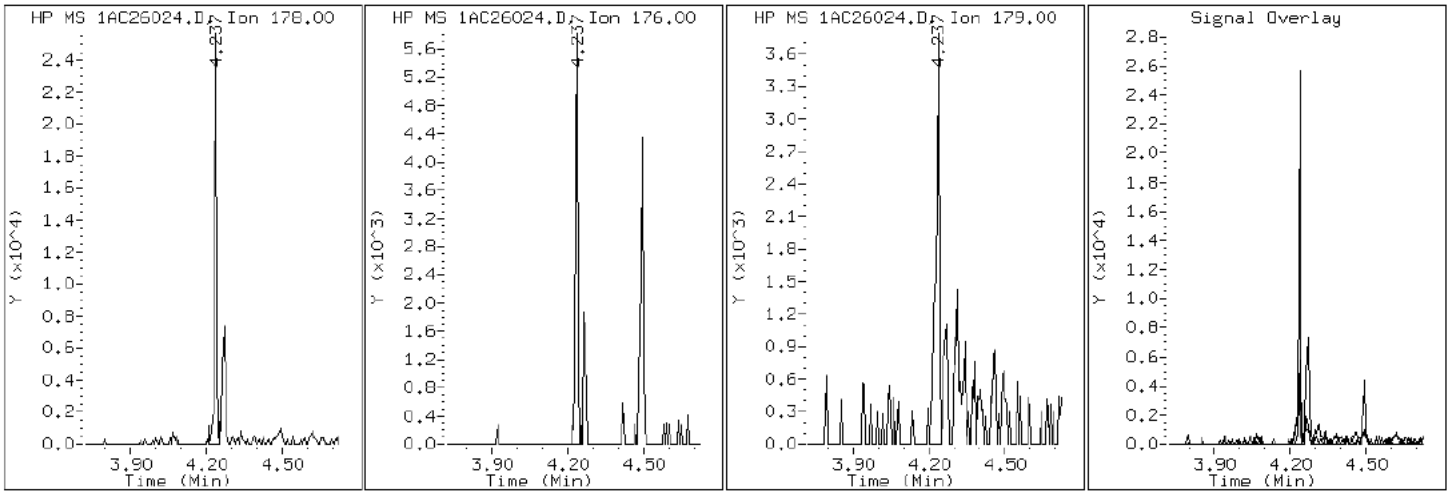
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

11 Phenanthrene



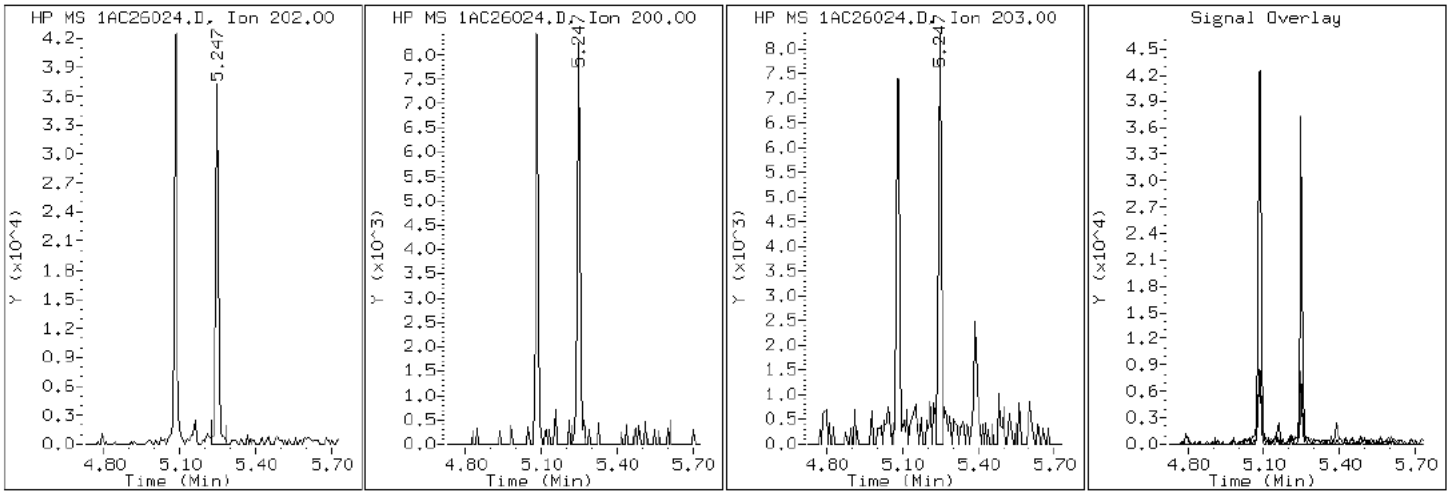
Data File: 1AC26024.D

Date: 26-MAR-2013 18:39

Client ID: CV0968A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-30-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AC26024.D
Inj. Date and Time: 26-MAR-2013 18:39
Instrument ID: BSMA5973.i
Client ID: CV0968A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/28/2013

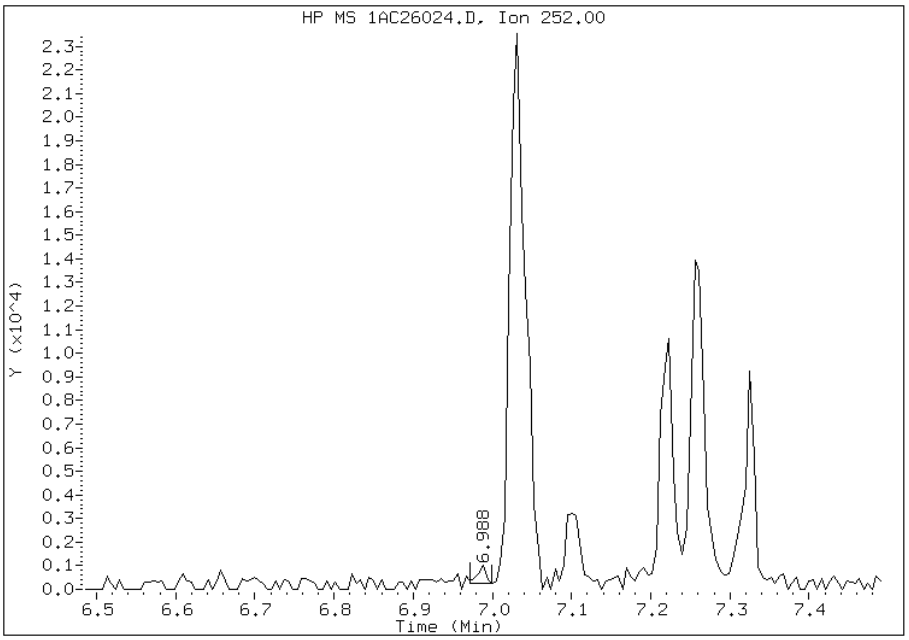
Processing Integration Results

RT: 6.99

Response: 548

Amount: 1

Conc: 102



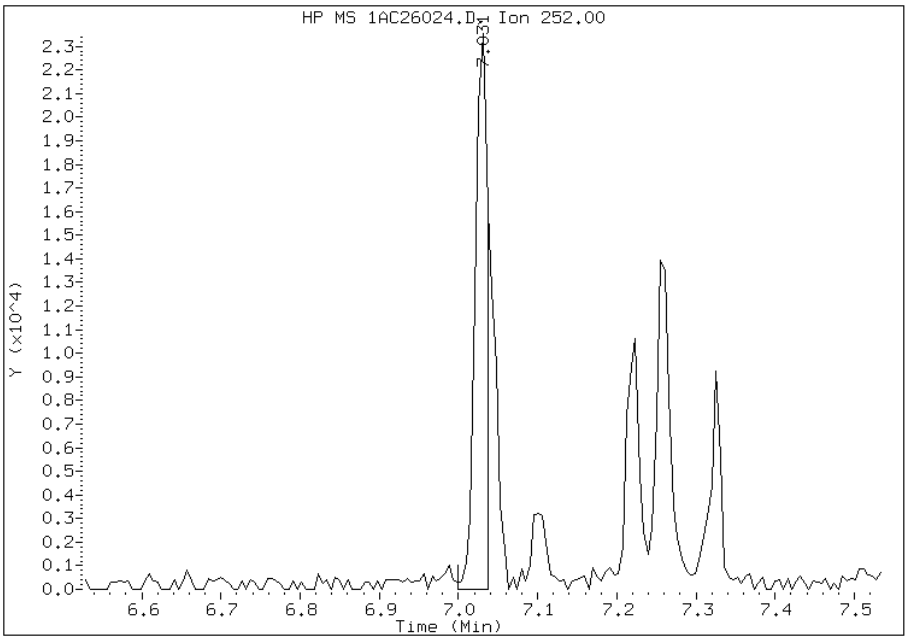
Manual Integration Results

RT: 7.03

Response: 24773

Amount: 2

Conc: 195



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC26024.D
Inj. Date and Time: 26-MAR-2013 18:39
Instrument ID: BSMA5973.i
Client ID: CV0968A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/28/2013

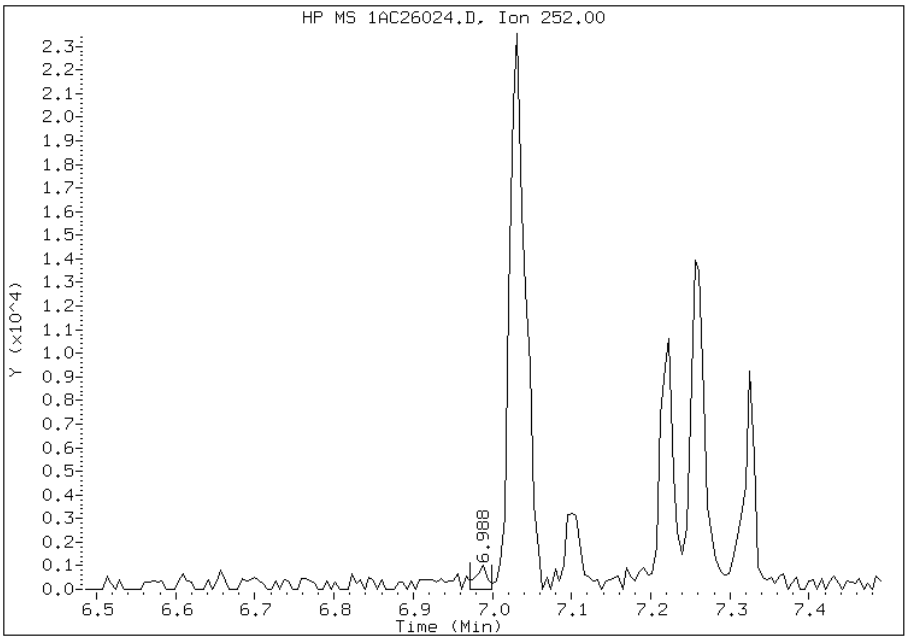
Processing Integration Results

RT: 6.99

Response: 1037

Amount: 0

Conc: 4



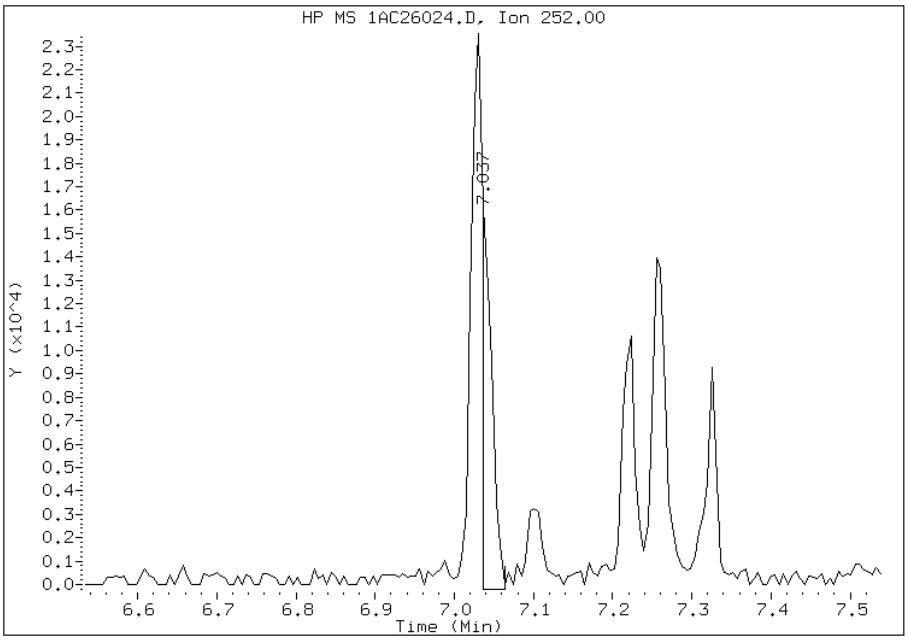
Manual Integration Results

RT: 7.04

Response: 14348

Amount: 1

Conc: 56



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC26024.D
Inj. Date and Time: 26-MAR-2013 18:39
Instrument ID: BSMA5973.i
Client ID: CV0968A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

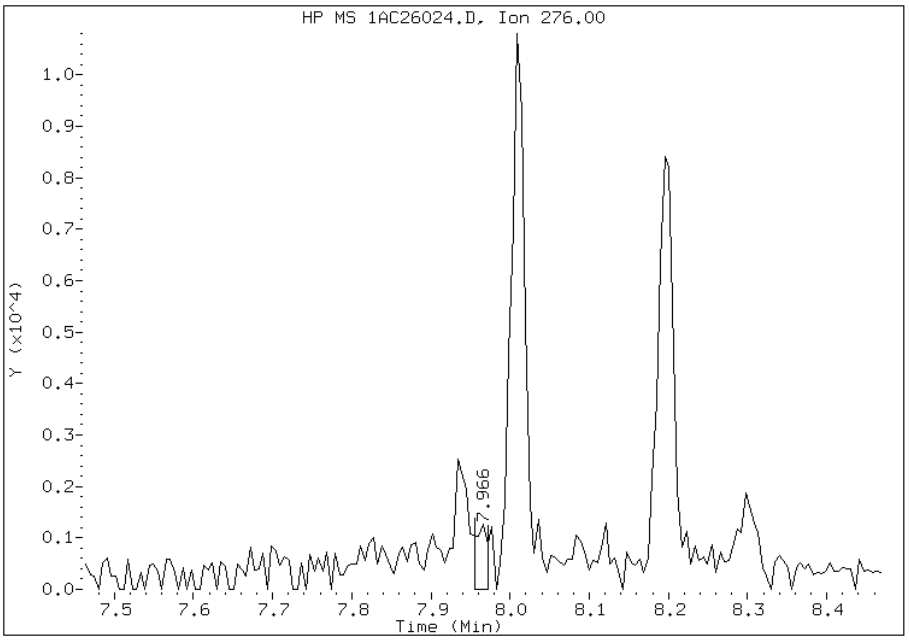
Processing Integration Results

RT: 7.97

Response: 1342

Amount: 0

Conc: 7



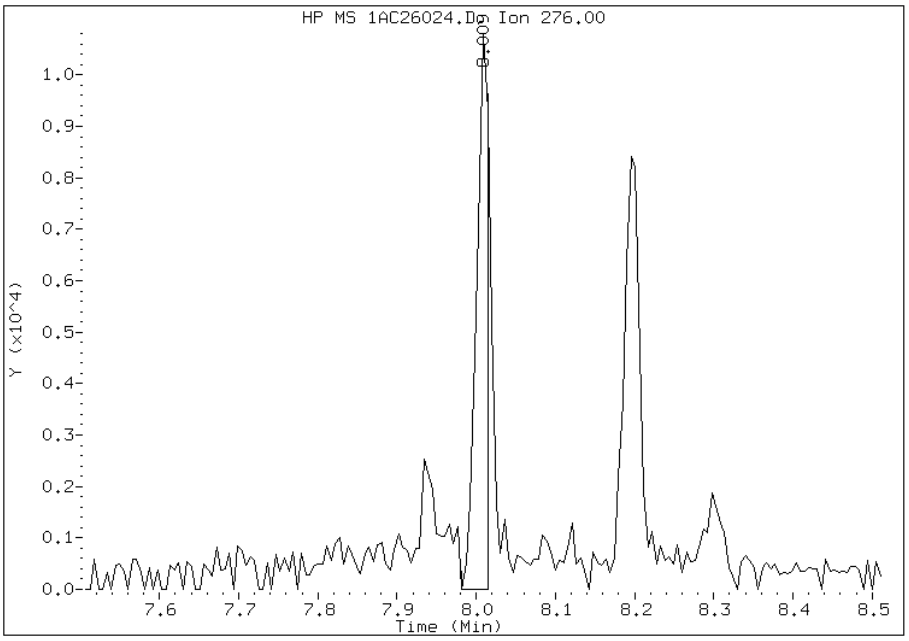
Manual Integration Results

RT: 8.01

Response: 10872

Amount: 1

Conc: 54



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:44
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0968B-CS-SP | Lab Sample ID: 680-88420-31

Matrix: Solid | Lab File ID: 1AC26025.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 15:31

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 15.01(g) | Date Analyzed: 03/26/2013 18:54

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

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

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135850 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	81		49	6.2
120-12-7	Anthracene	73		10	5.2
56-55-3	Benzo[a]anthracene	200		9.9	4.8
50-32-8	Benzo[a]pyrene	170		13	6.4
205-99-2	Benzo[b]fluoranthene	330		15	7.5
191-24-2	Benzo[g,h,i]perylene	170		25	5.4
207-08-9	Benzo[k]fluoranthene	97		9.9	4.4
218-01-9	Chrysene	190		11	5.6
53-70-3	Dibenz(a,h)anthracene	54		25	5.1
206-44-0	Fluoranthene	290		25	4.9
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	160		25	8.8
90-12-0	1-Methylnaphthalene	20	J	49	5.4
91-57-6	2-Methylnaphthalene	89		49	8.8
91-20-3	Naphthalene	27	J	49	5.4
85-01-8	Phenanthrene	150		9.9	4.8
129-00-0	Pyrene	300		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26025.D
Lab Smp Id: 680-88420-A-31-A Client Smp ID: CV0968B-CS-SP
Inj Date : 26-MAR-2013 18:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88420-A-31-A
Misc Info : 680-88420-A-31-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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	15.010	Weight Extracted
M	19.085	% 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	2.278	2.272	(1.000)	383503	40.0000	
* 6 Acenaphthene-d10	164	3.299	3.287	(1.000)	294672	40.0000	
* 10 Phenanthrene-d10	188	4.223	4.205	(1.000)	460003	40.0000	
$ 14 o-Terphenyl	230	4.490	4.478	(1.063)	46073	7.62265	627.6228
* 18 Chrysene-d12	240	6.215	6.193	(1.000)	347625	40.0000	
* 23 Perylene-d12	264	7.311	7.272	(1.000)	426771	40.0000	(H)
2 Naphthalene	128	2.289	2.282	(1.005)	2900	0.32731	26.9492
3 2-Methylnaphthalene	141	2.690	2.683	(1.181)	1067	1.07720	88.6930
4 1-Methylnaphthalene	142	2.748	2.736	(1.206)	1255	0.24633	20.2819
5 Acenaphthylene	152	3.213	3.201	(0.974)	8515	0.97892	80.6008
11 Phenanthrene	178	4.234	4.221	(1.003)	20540	1.76178	145.0591
12 Anthracene	178	4.266	4.253	(1.010)	9971	0.88203	72.6235
13 Carbazole	167	4.431	4.408	(1.049)	4295	0.43348	35.6911
15 Fluoranthene	202	5.083	5.065	(1.204)	40906	3.54948	292.2523

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.249	5.226	(0.844)	35975	3.60933	297.1803
17 Benzo(a)anthracene	228	6.210	6.177	(0.999)	22724	2.42259	199.4677
19 Chrysene	228	6.231	6.209	(1.003)	20293	2.25387	185.5761
20 Benzo(b)fluoranthene	252	7.027	6.994	(0.961)	32857	3.99674	329.0776(MH)
21 Benzo(k)fluoranthene	252	7.038	7.015	(0.963)	13609	1.18218	97.3367(QMH)
22 Benzo(a)pyrene	252	7.257	7.224	(0.993)	20357	2.03256	167.3541(H)
24 Indeno(1,2,3-cd)pyrene	276	8.010	7.972	(1.096)	17079	1.88990	155.6081(MH)
25 Dibenzo(a,h)anthracene	278	8.010	7.982	(1.096)	5899	0.65863	54.2292(H)
26 Benzo(g,h,i)perylene	276	8.192	8.148	(1.121)	18638	2.04889	168.6986(H)

QC Flag Legend

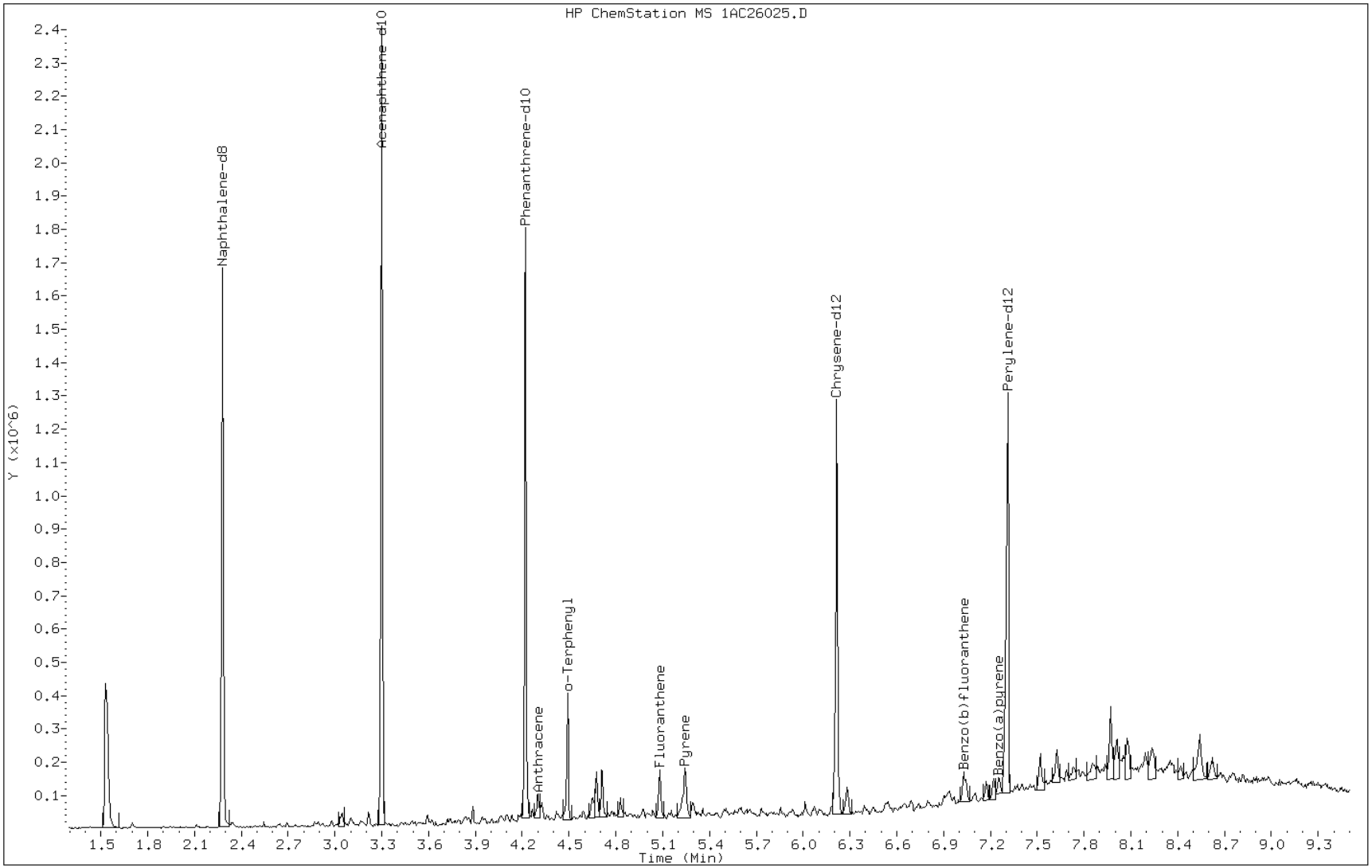
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC



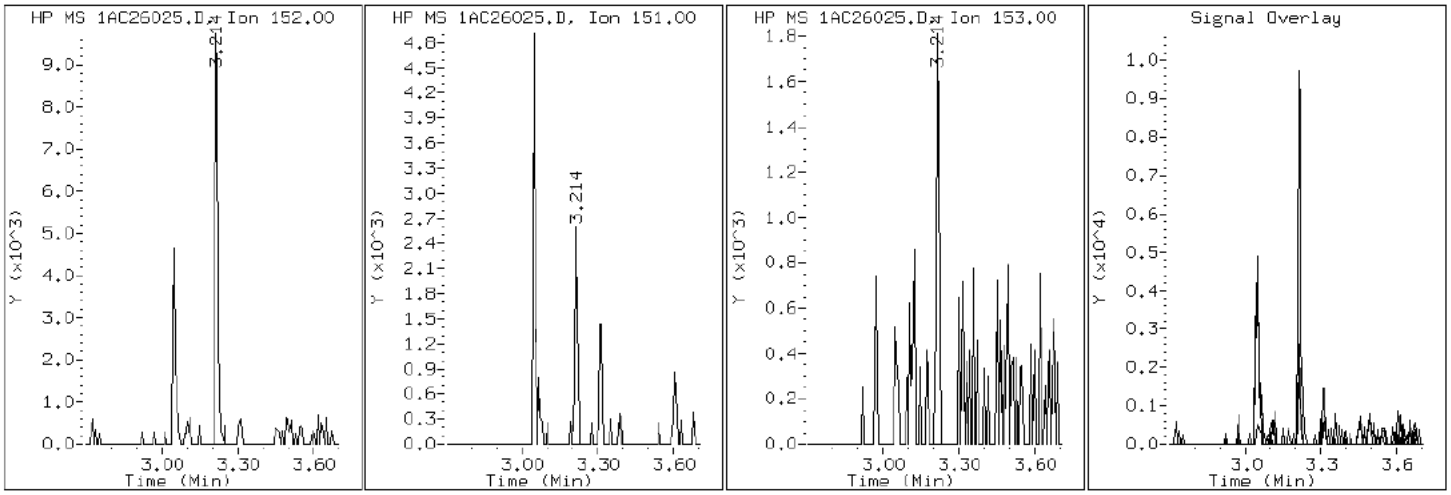
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

5 Acenaphthylene



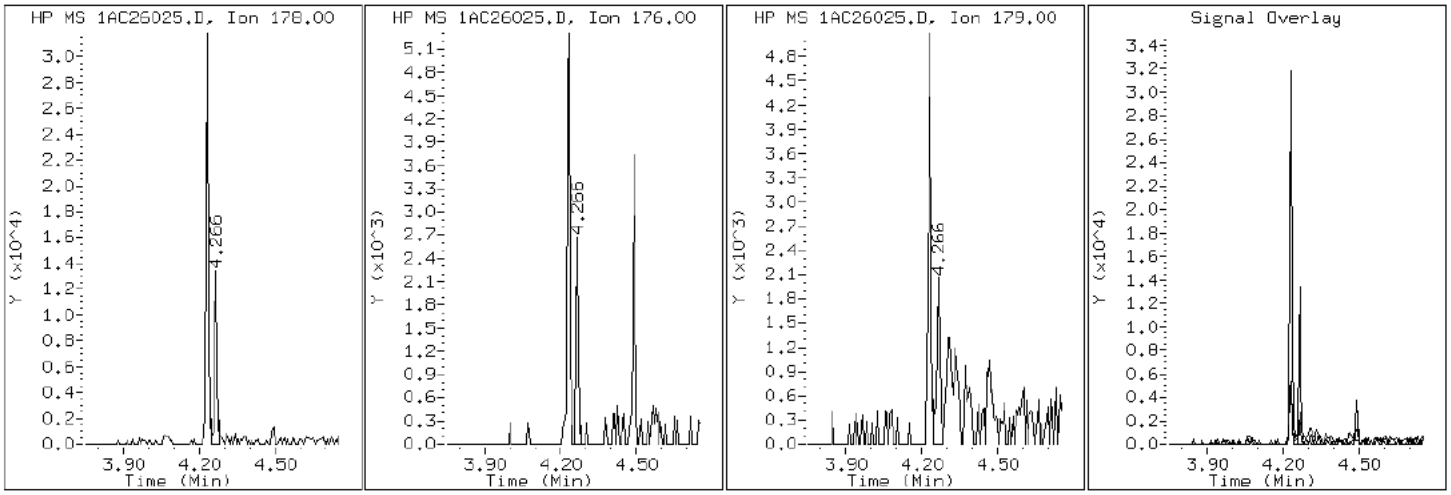
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

12 Anthracene



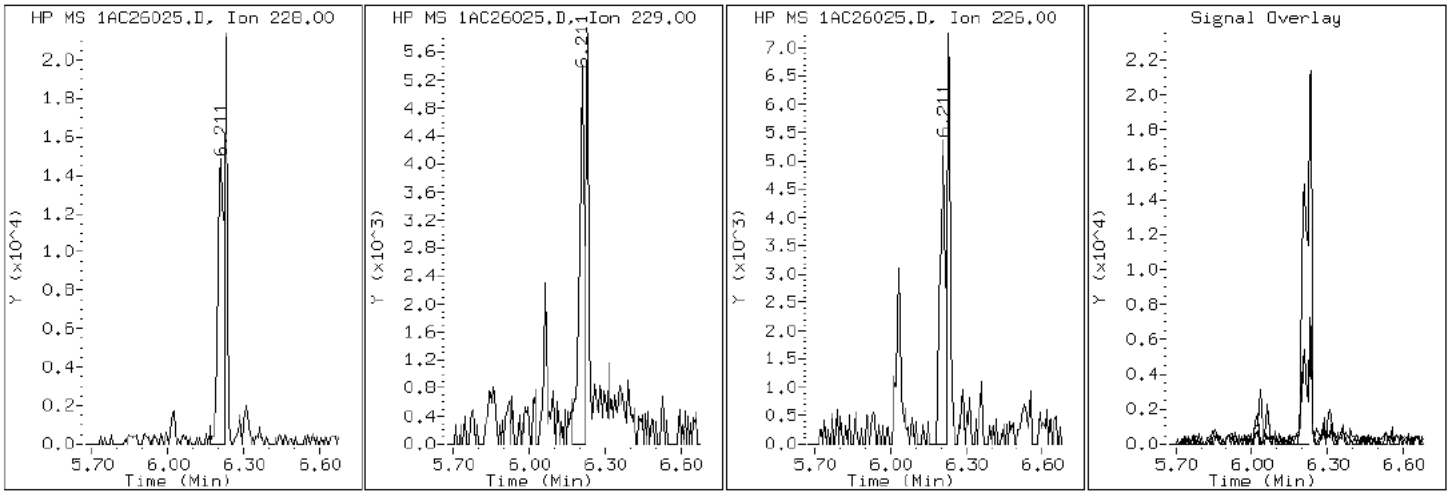
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

17 Benzo(a)anthracene



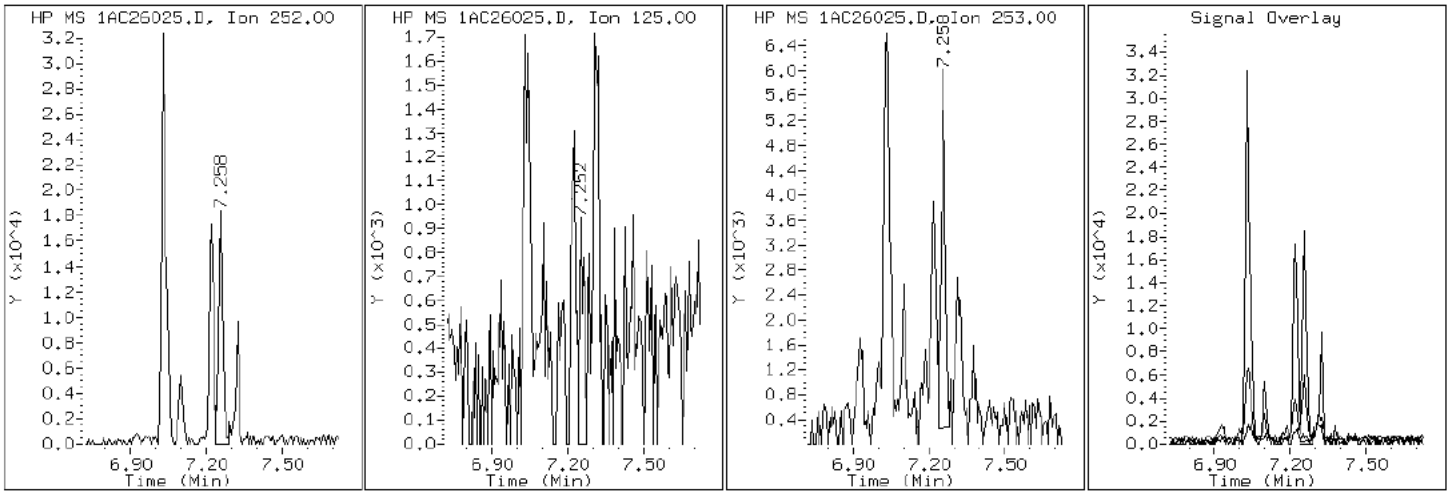
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

22 Benzo(a)pyrene



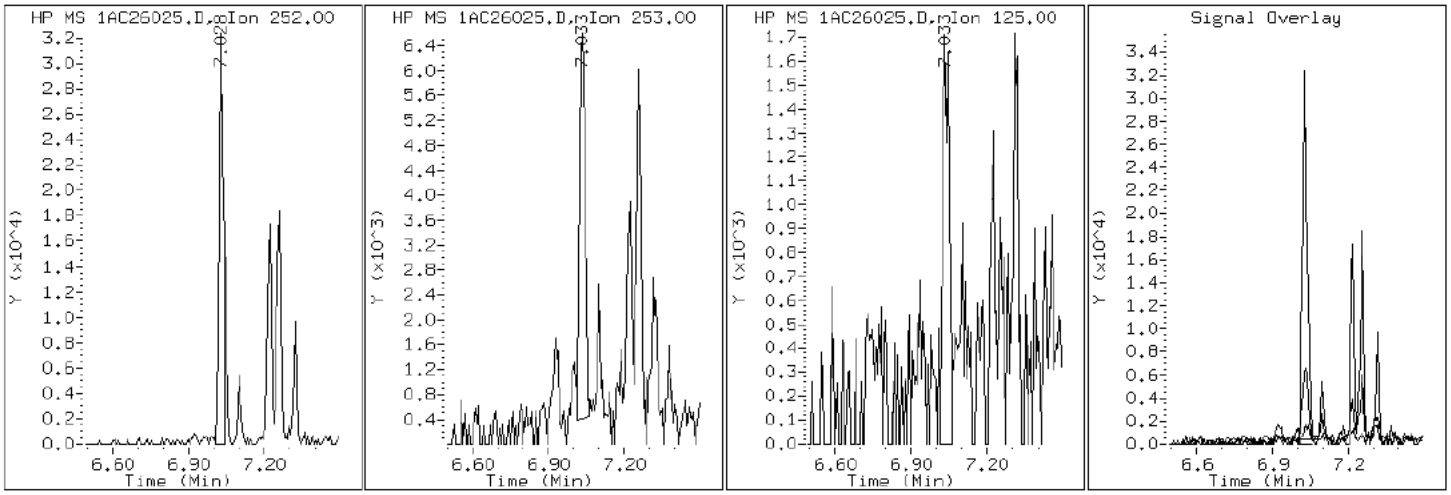
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

20 Benzo(b)fluoranthene



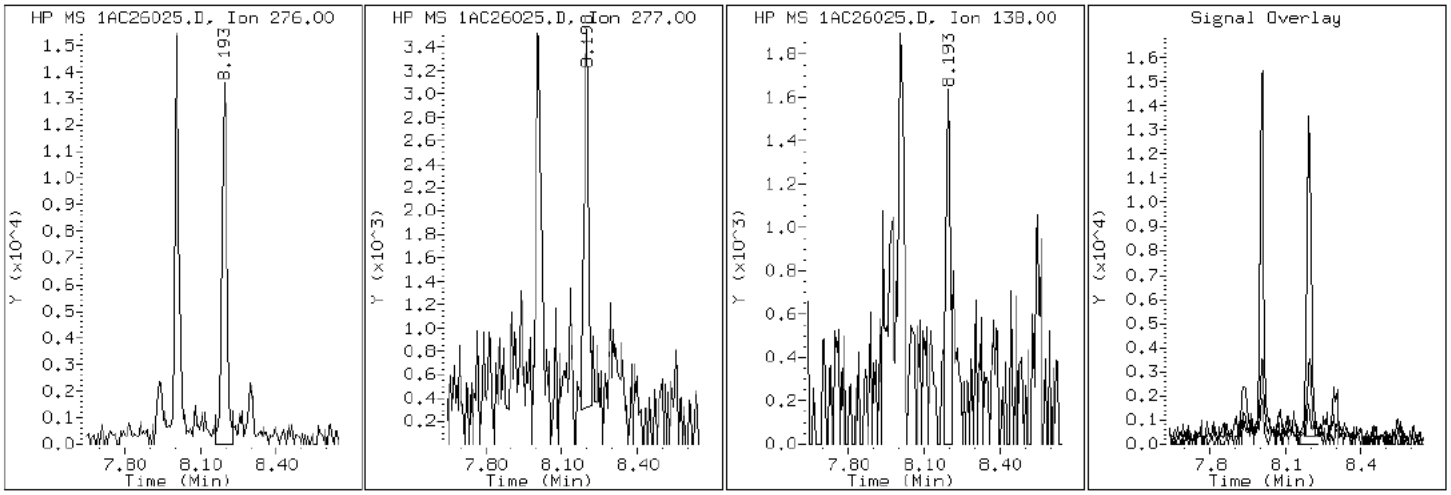
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

26 Benzo(g,h,i)perylene



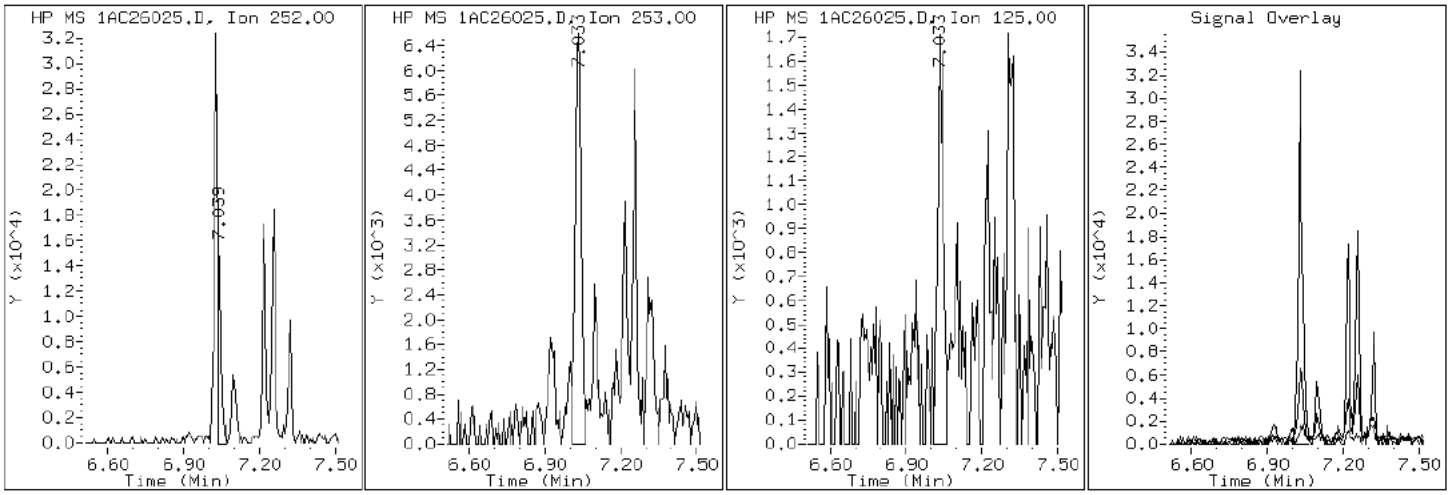
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

21 Benzo(k)fluoranthene



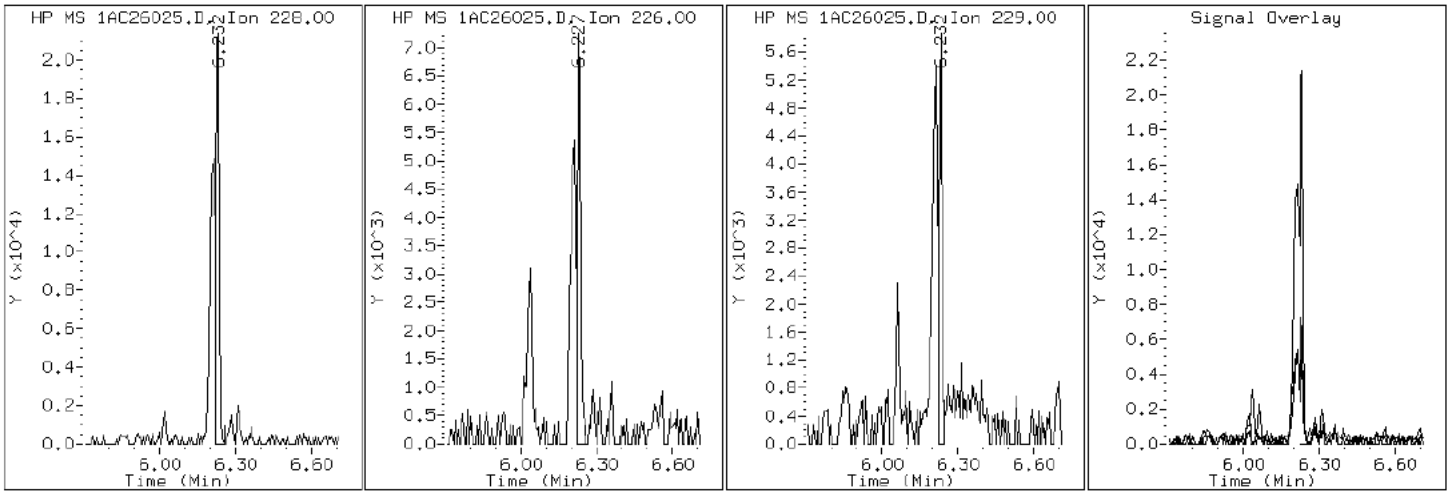
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

19 Chrysene



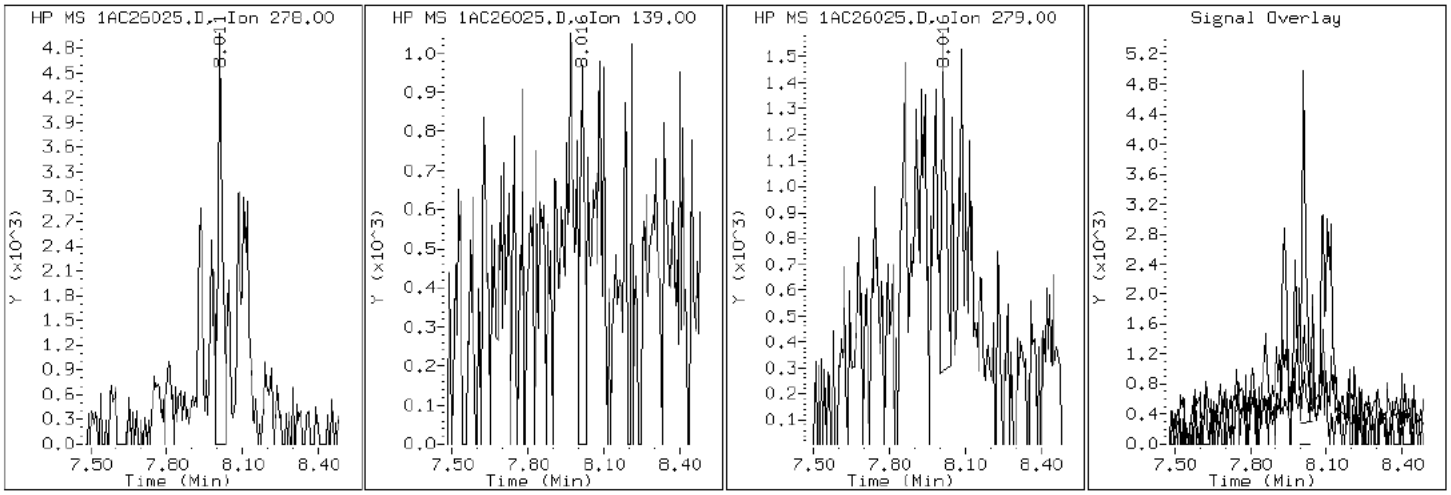
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

25 Dibenzo(a,h)anthracene



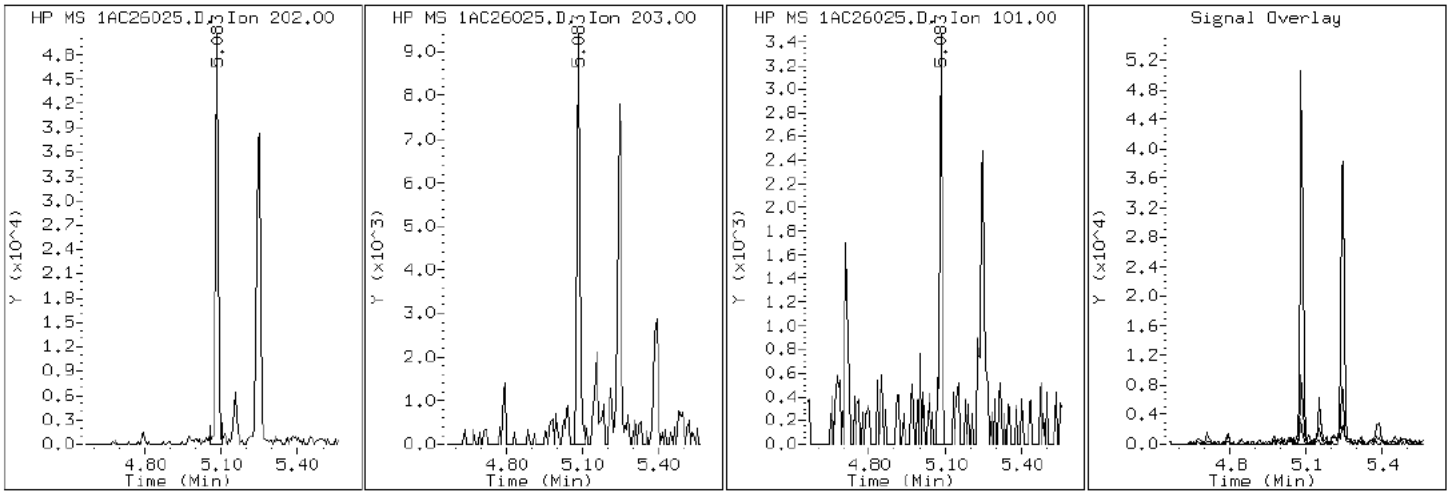
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

15 Fluoranthene



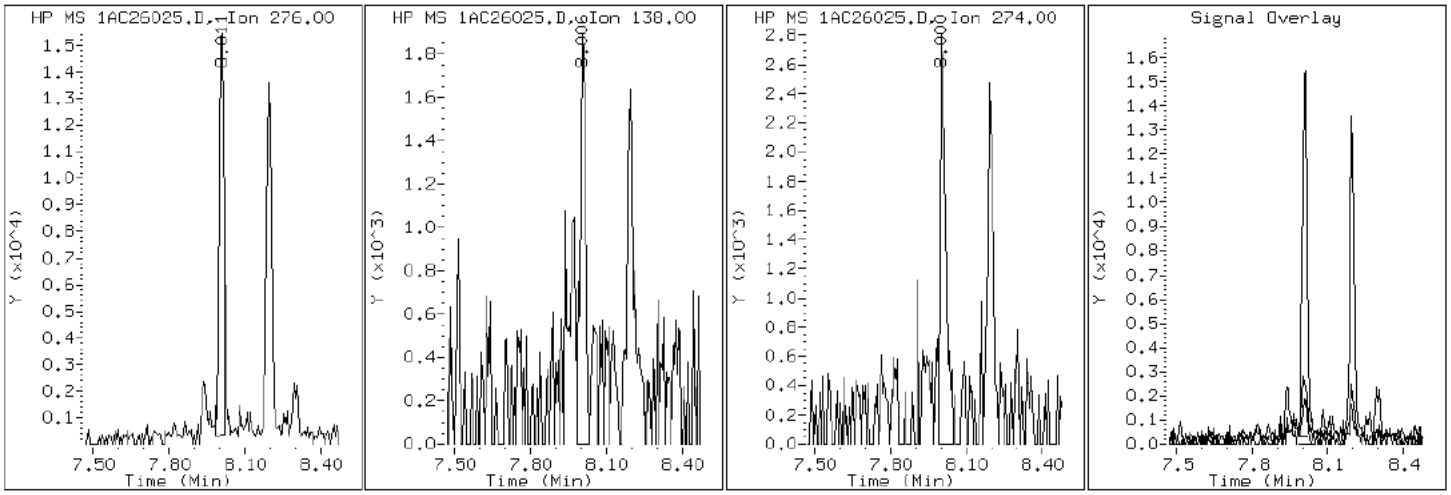
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

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



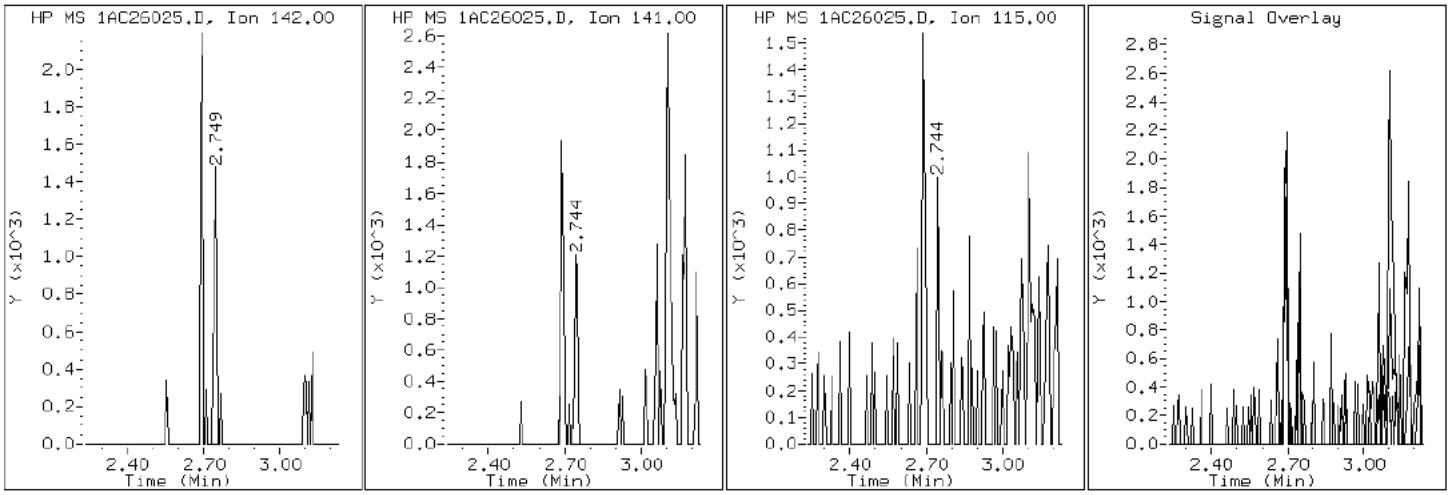
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

4 1-Methylnaphthalene



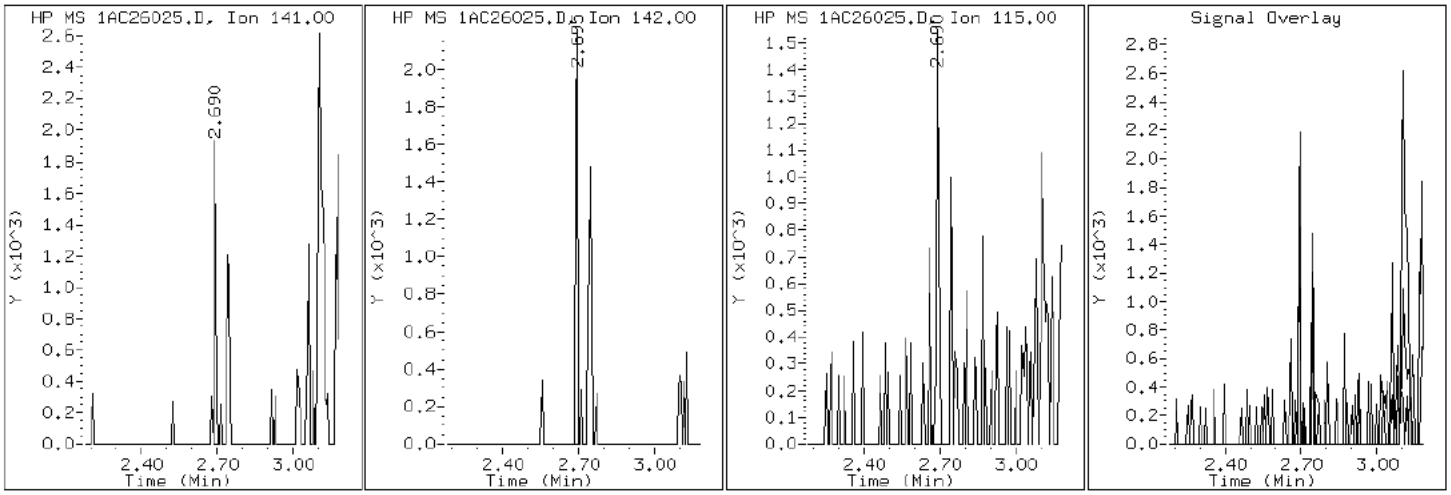
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

3 2-Methylnaphthalene



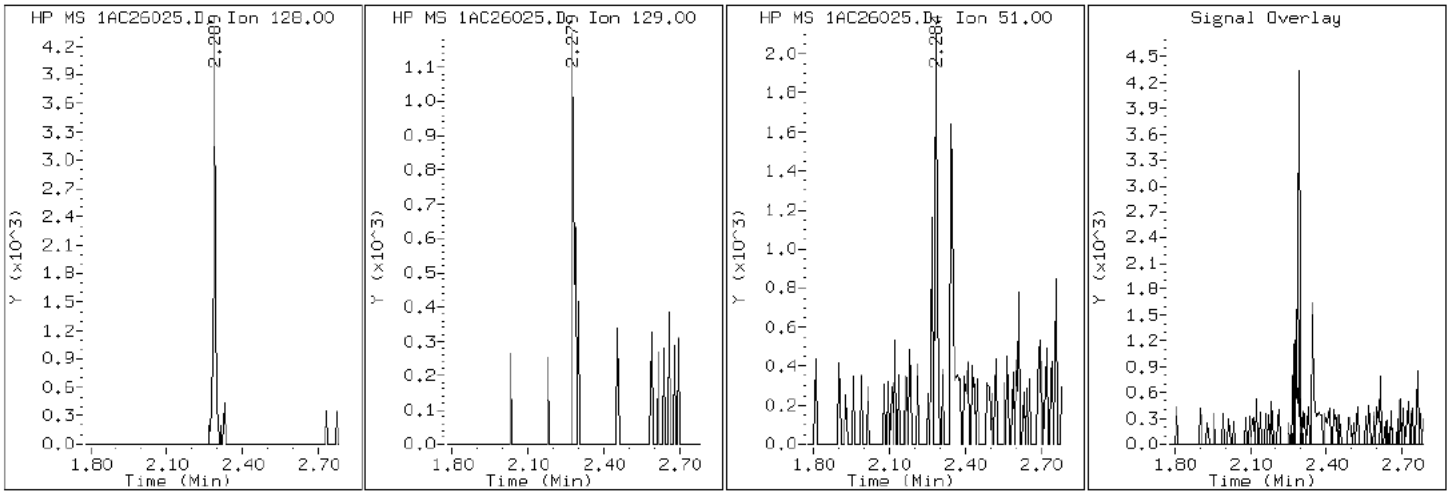
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

2 Naphthalene



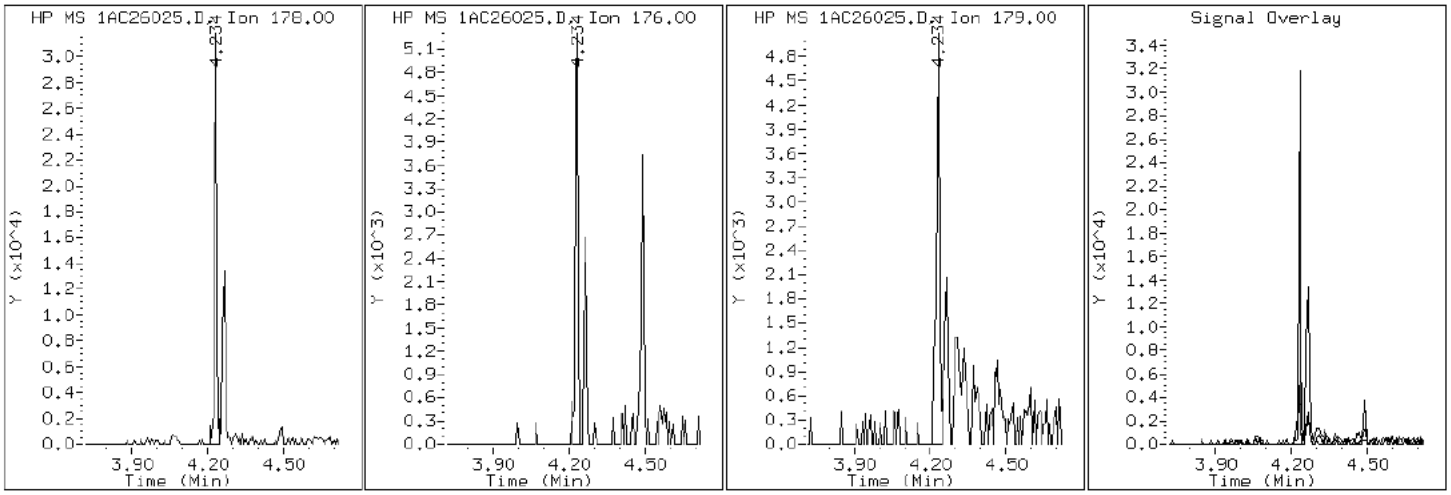
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

11 Phenanthrene



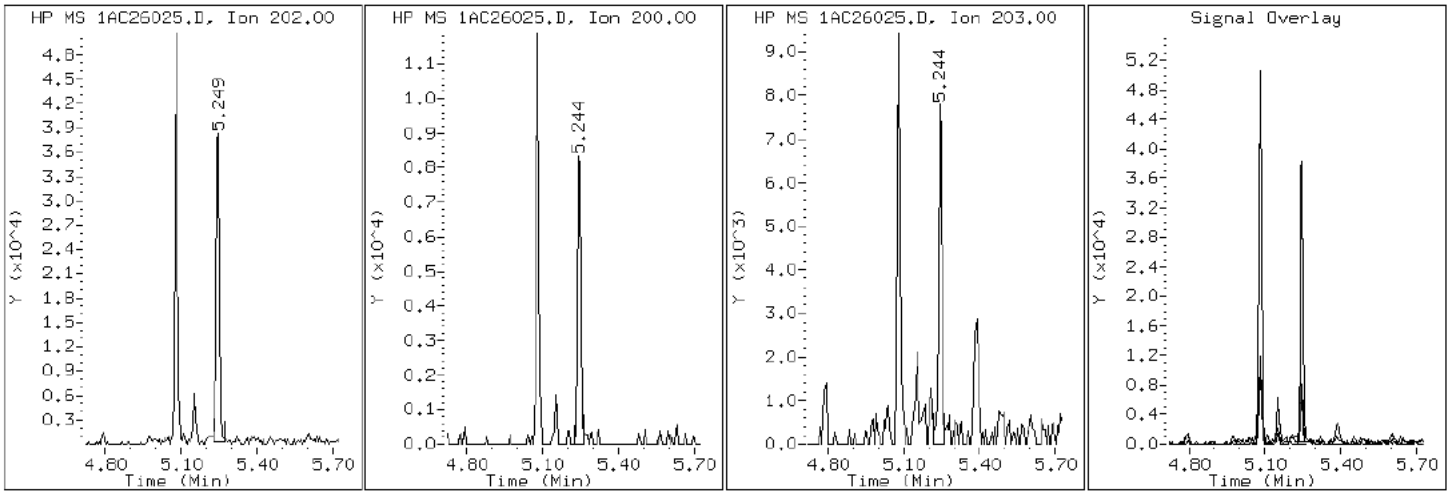
Data File: 1AC26025.D

Date: 26-MAR-2013 18:54

Client ID: CV0968B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-31-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AC26025.D
Inj. Date and Time: 26-MAR-2013 18:54
Instrument ID: BSMA5973.i
Client ID: CV0968B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/28/2013

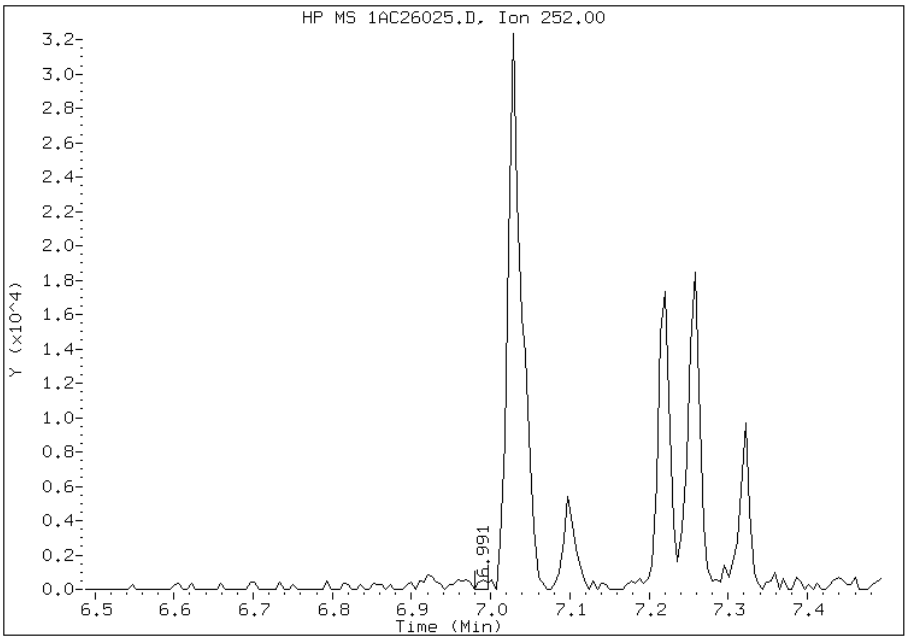
Processing Integration Results

RT: 6.99

Response: 434

Amount: 1

Conc: 102



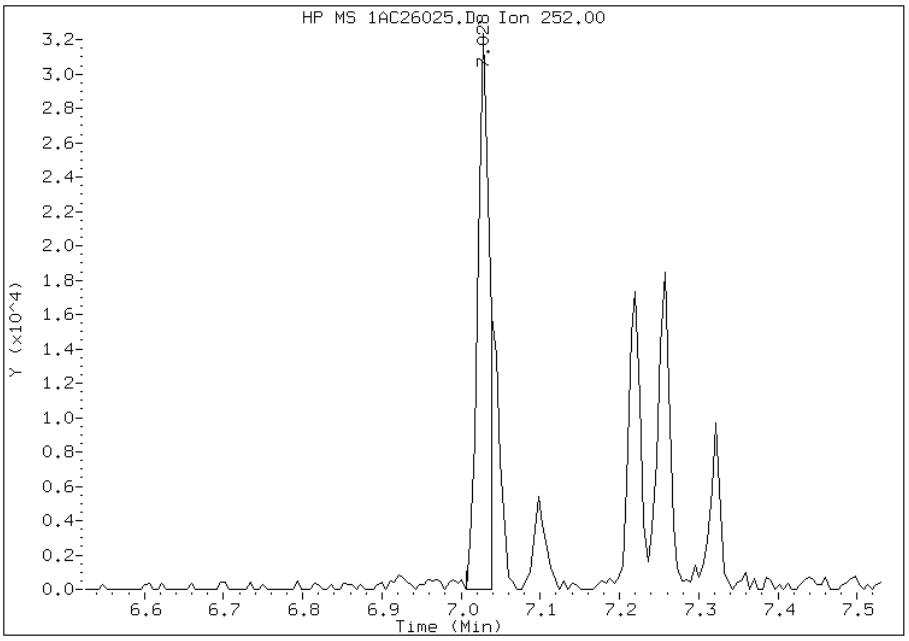
Manual Integration Results

RT: 7.03

Response: 32857

Amount: 4

Conc: 329



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:41
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC26025.D
Inj. Date and Time: 26-MAR-2013 18:54
Instrument ID: BSMA5973.i
Client ID: CV0968B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/28/2013

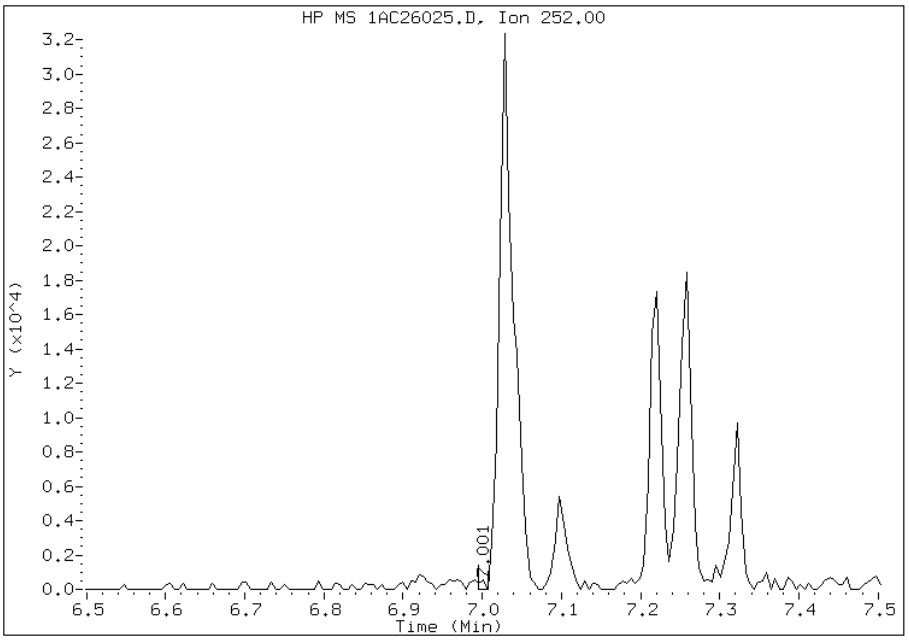
Processing Integration Results

RT: 7.00

Response: 297

Amount: 0

Conc: 2



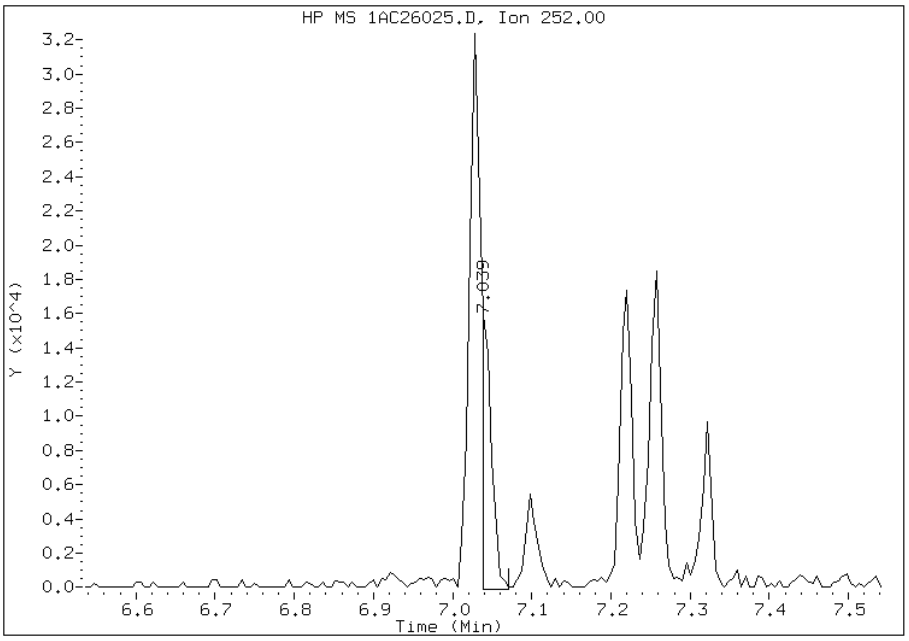
Manual Integration Results

RT: 7.04

Response: 13609

Amount: 1

Conc: 97



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC26025.D
Inj. Date and Time: 26-MAR-2013 18:54
Instrument ID: BSMA5973.i
Client ID: CV0968B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

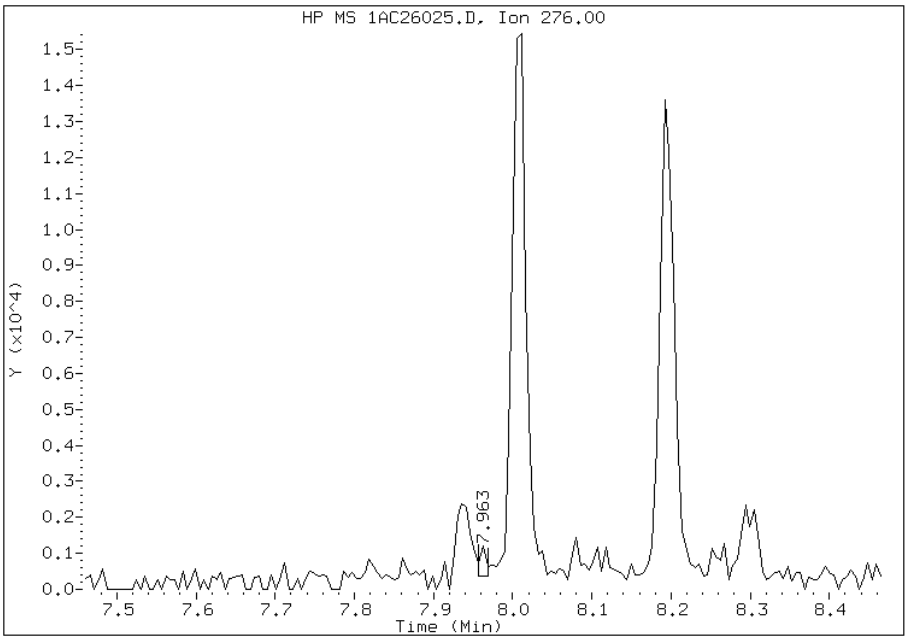
Processing Integration Results

RT: 7.96

Response: 481

Amount: 0

Conc: 4



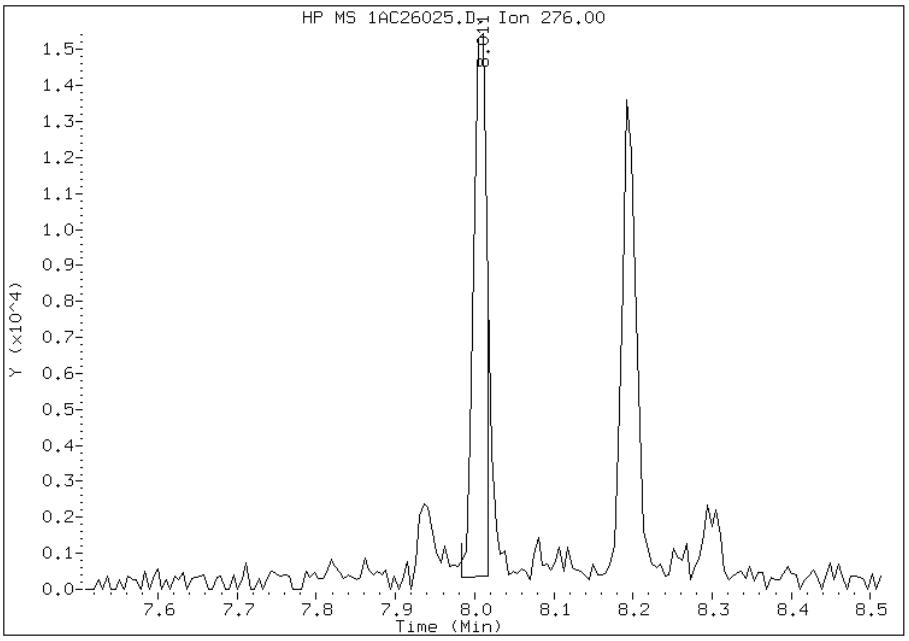
Manual Integration Results

RT: 8.01

Response: 17079

Amount: 2

Conc: 156



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0292A-CS-SP | Lab Sample ID: 680-88420-35

Matrix: Solid | Lab File ID: 1CC27036.D

Analysis Method: 8270C LL | Date Collected: 03/15/2013 08:30

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 15.39(g) | Date Analyzed: 03/27/2013 20:53

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

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

% Moisture: 29.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135830 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	12	J	55	6.9
120-12-7	Anthracene	13		12	5.8
56-55-3	Benzo[a]anthracene	62		11	5.4
50-32-8	Benzo[a]pyrene	65		14	7.2
205-99-2	Benzo[b]fluoranthene	110		17	8.4
191-24-2	Benzo[g,h,i]perylene	42		28	6.1
207-08-9	Benzo[k]fluoranthene	38		11	5.0
218-01-9	Chrysene	87		12	6.2
53-70-3	Dibenz(a,h)anthracene	13	J	28	5.7
206-44-0	Fluoranthene	100		28	5.5
86-73-7	Fluorene	6.5	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	34		28	9.8
90-12-0	1-Methylnaphthalene	39	J	55	6.1
91-57-6	2-Methylnaphthalene	39	J	55	9.8
91-20-3	Naphthalene	32	J	55	6.1
85-01-8	Phenanthrene	93		11	5.4
129-00-0	Pyrene	110		28	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	38		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27036.D
Lab Smp Id: 680-88420-A-35-A Client Smp ID: CV0292A-CS-SP
Inj Date : 27-MAR-2013 20:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88420-a-35-a
Misc Info : 680-88420-A-35-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	Weight Extracted
M	29.412	% 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	3.727	3.727	(1.000)	780923	40.0000	
* 6 Acenaphthene-d10	164	4.815	4.815	(1.000)	626831	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.762	(1.000)	1105614	40.0000	
$ 14 o-Terphenyl	230	6.015	6.015	(1.044)	62832	3.76400	346.4802
* 18 Chrysene-d12	240	7.703	7.704	(1.000)	1170343	40.0000	
* 23 Perylene-d12	264	8.892	8.886	(1.000)	1069405	40.0000	
2 Naphthalene	128	3.745	3.739	(1.005)	7154	0.35189	32.3916
3 2-Methylnaphthalene	142	4.168	4.168	(1.118)	5797	0.42747	39.3488
4 1-Methylnaphthalene	142	4.227	4.227	(1.134)	5213	0.42207	38.8519
5 Acenaphthylene	152	4.727	4.727	(0.982)	3347	0.13244	12.1912
9 Fluorene	166	5.162	5.157	(1.072)	1413	0.07113	6.5474(Q)
11 Phenanthrene	178	5.780	5.780	(1.003)	32386	1.01303	93.2504
12 Anthracene	178	5.815	5.815	(1.009)	4501	0.14396	13.2515
13 Carbazole	167	5.921	5.921	(1.028)	4710	0.16947	15.5995

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.615	6.615	(1.148)	39544	1.12949	103.9709
16 Pyrene	202	6.786	6.786	(0.881)	36627	1.16456	107.1993
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	22925	0.67869	62.4740
19 Chrysene	228	7.727	7.727	(1.003)	31775	0.93998	86.5266
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.960)	33072	1.18336	108.9296(M)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.963)	11771	0.41057	37.7935(QMH)
22 Benzo(a)pyrene	252	8.833	8.833	(0.993)	19044	0.70153	64.5770
24 Indeno(1,2,3-cd)pyrene	276	10.056	10.050	(1.131)	9314	0.36473	33.5735(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.132)	3642	0.14580	13.4214
26 Benzo(g,h,i)perylene	276	10.403	10.397	(1.170)	12215	0.45726	42.0908

QC Flag Legend

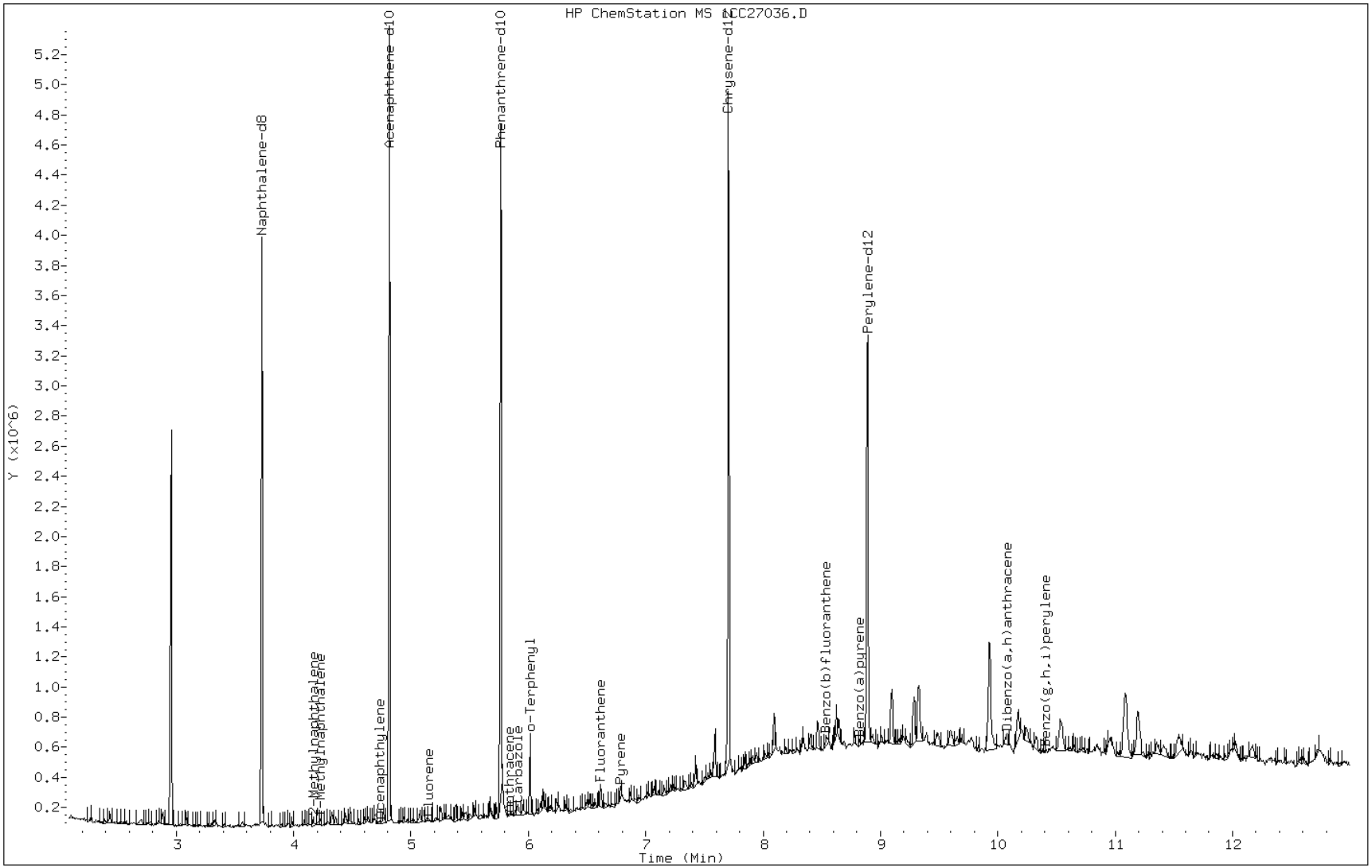
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC



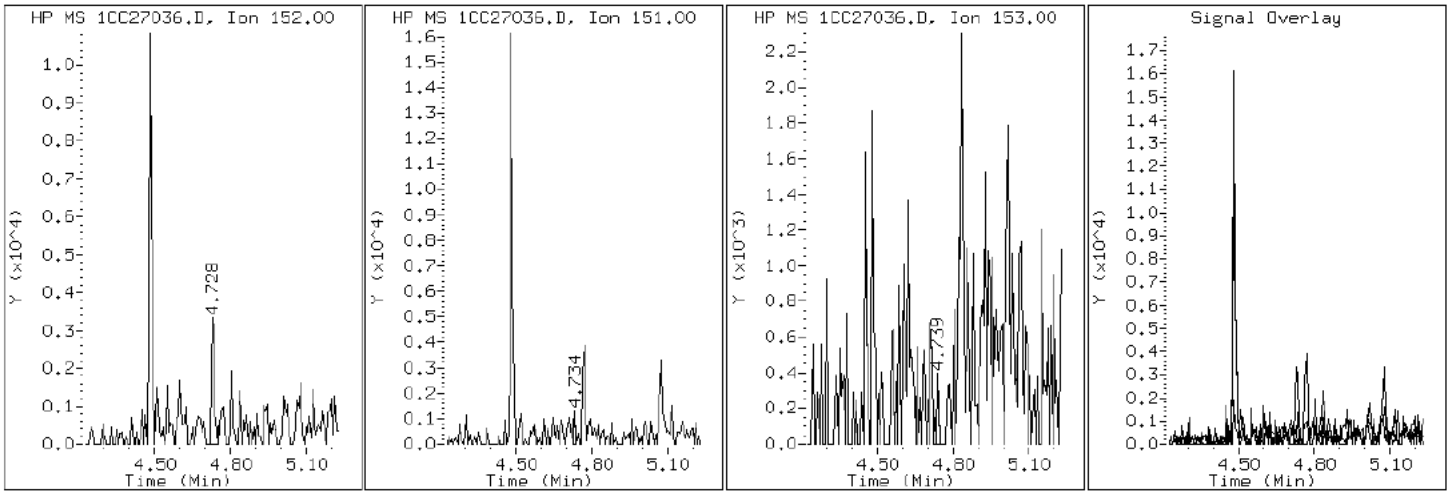
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

5 Acenaphthylene



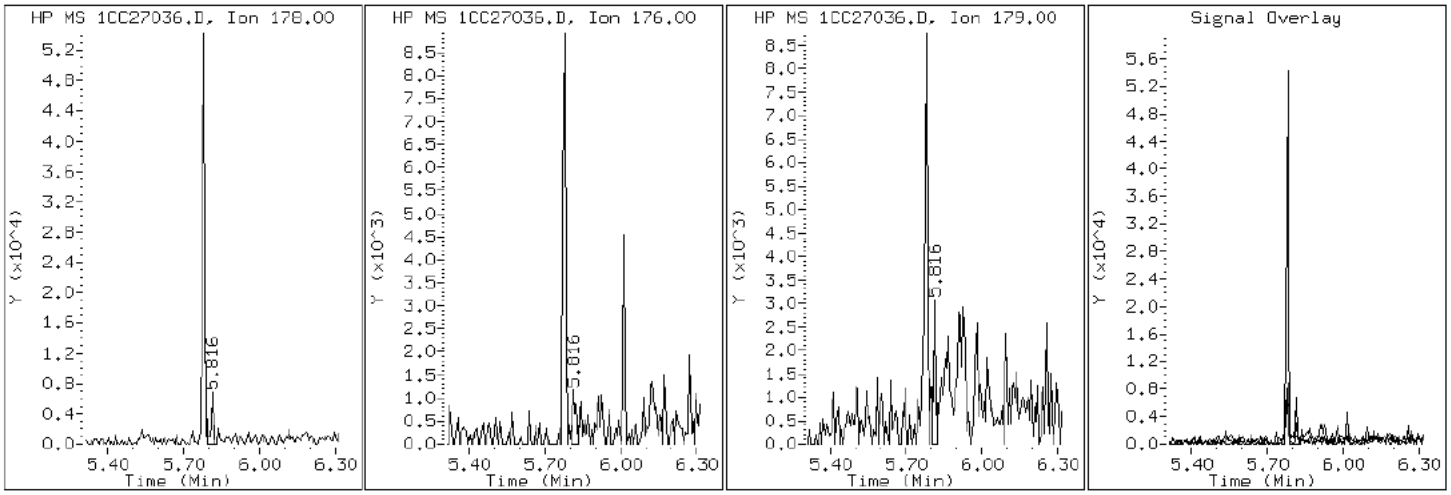
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

12 Anthracene



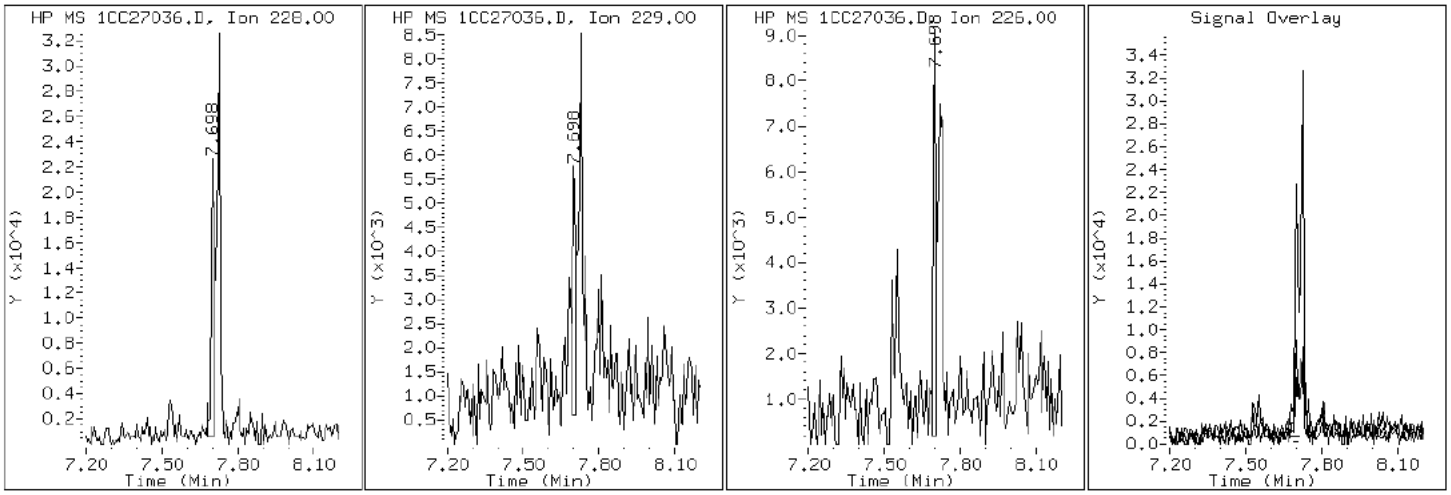
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

17 Benzo(a)anthracene



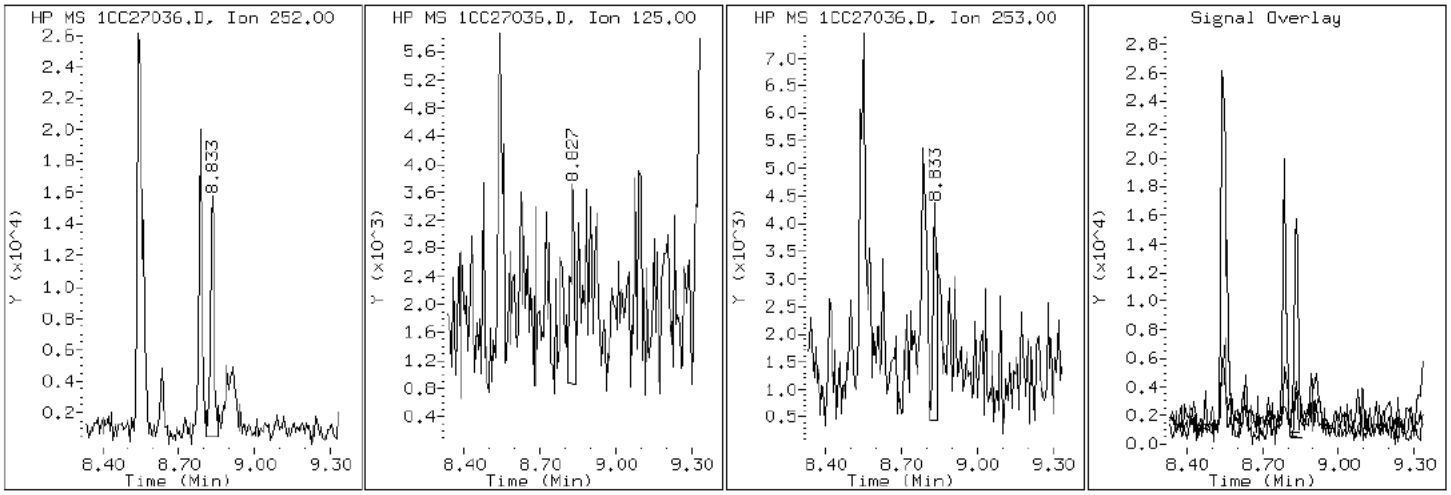
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

22 Benzo(a)pyrene



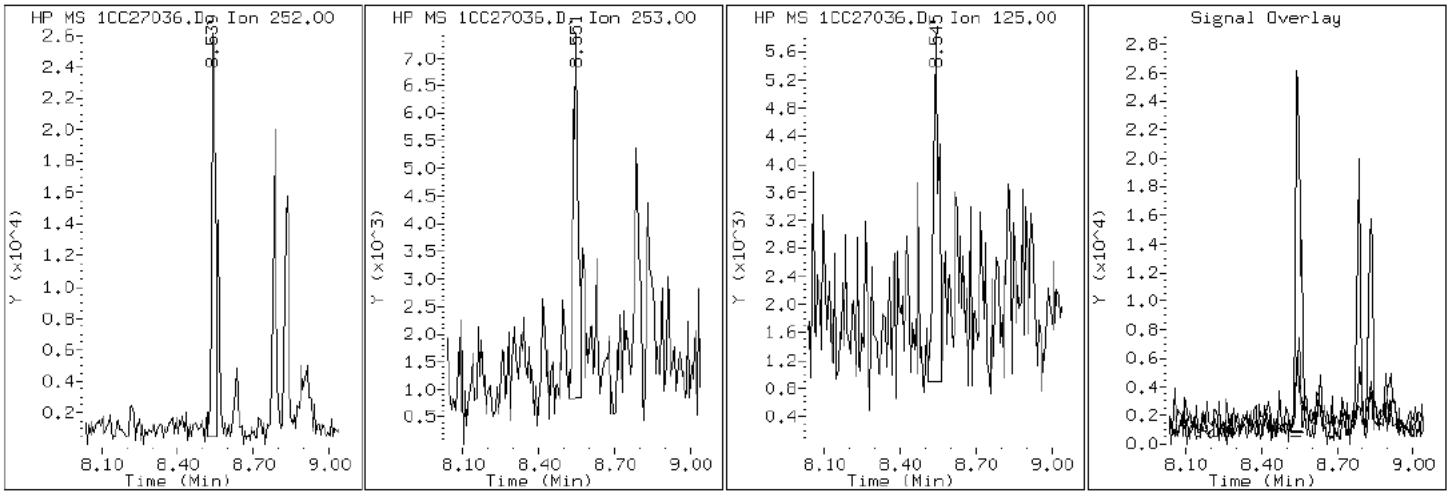
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

20 Benzo(b)fluoranthene



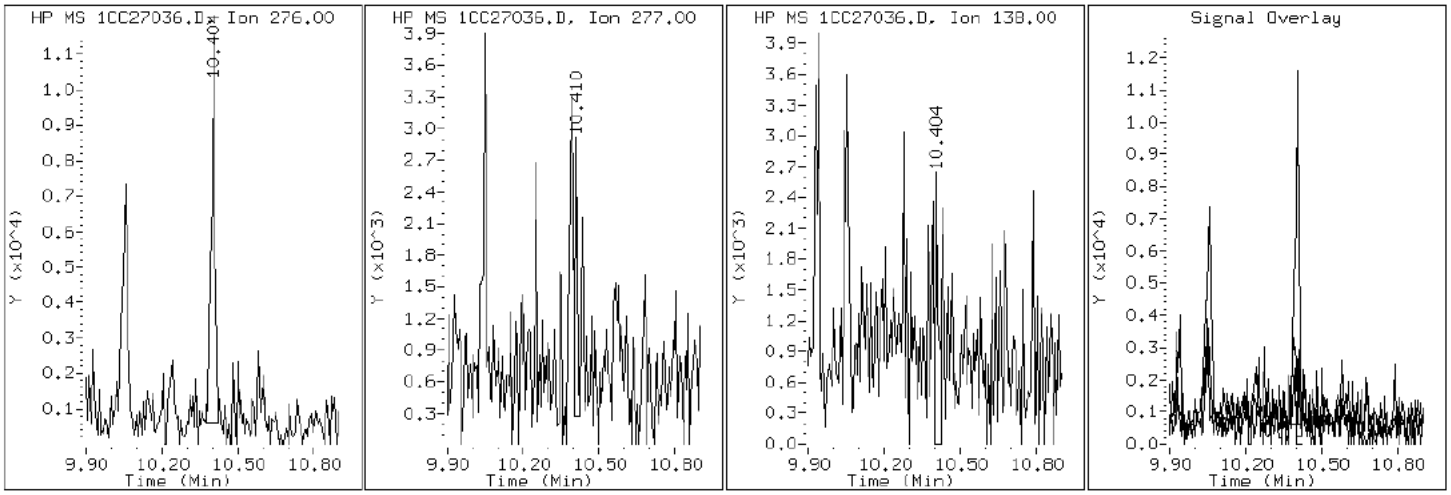
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

26 Benzo(g,h,i)perylene



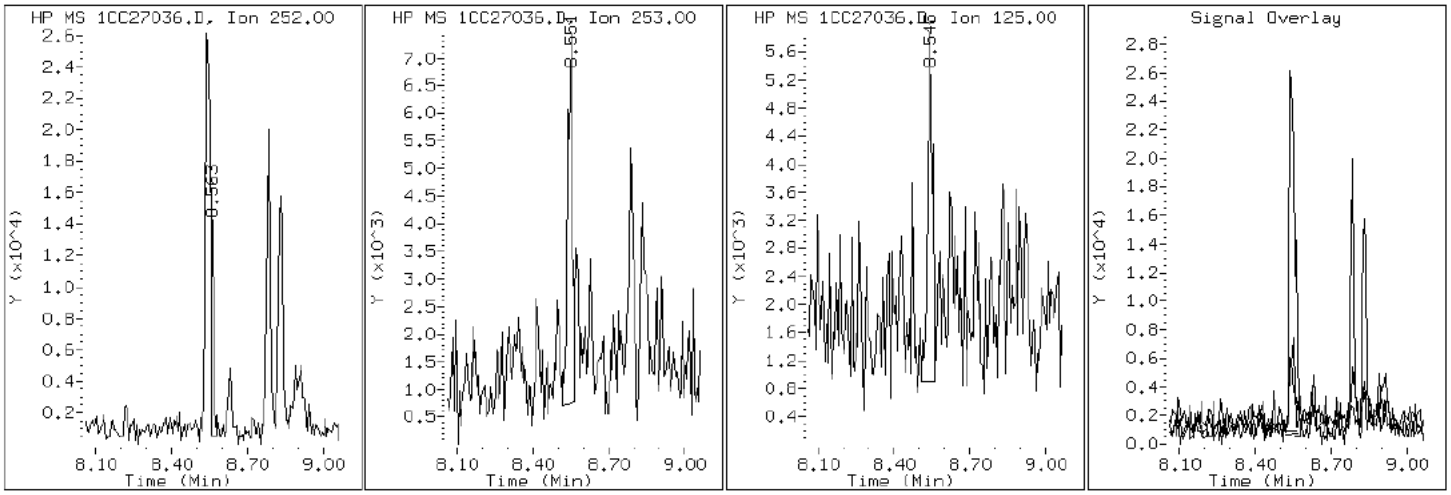
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

21 Benzo(k)fluoranthene



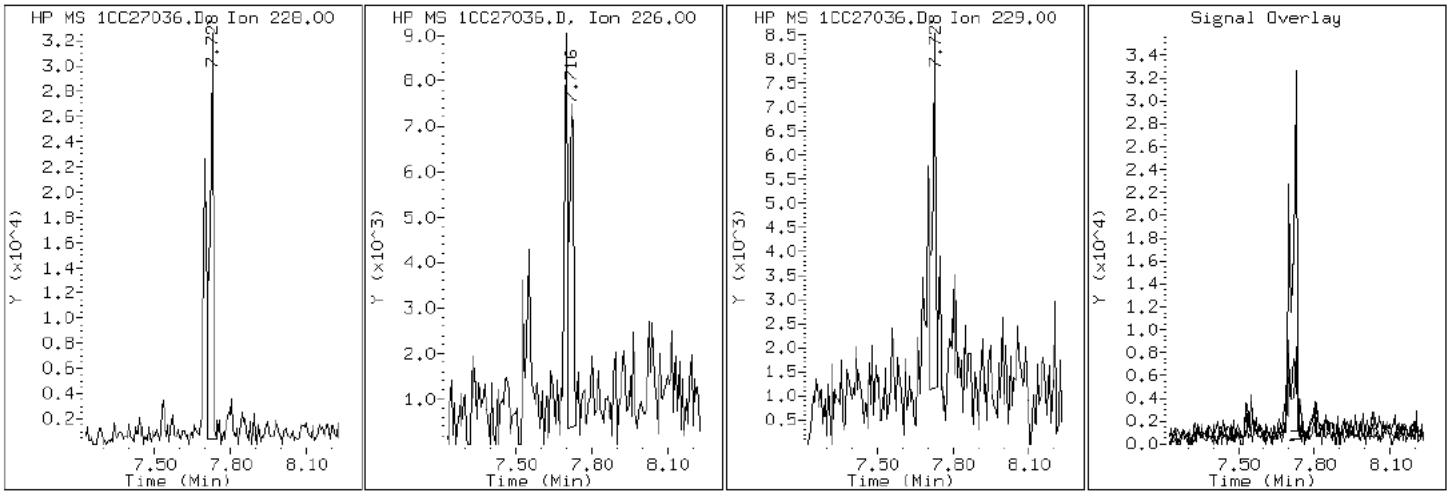
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

19 Chrysene



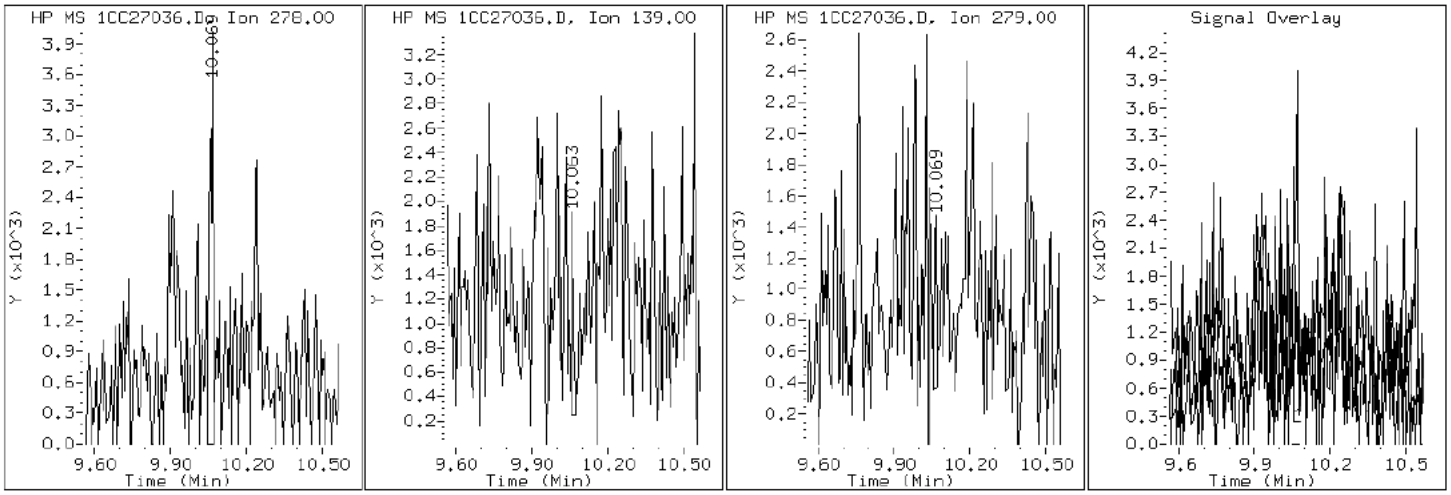
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

25 Dibenzo(a,h)anthracene



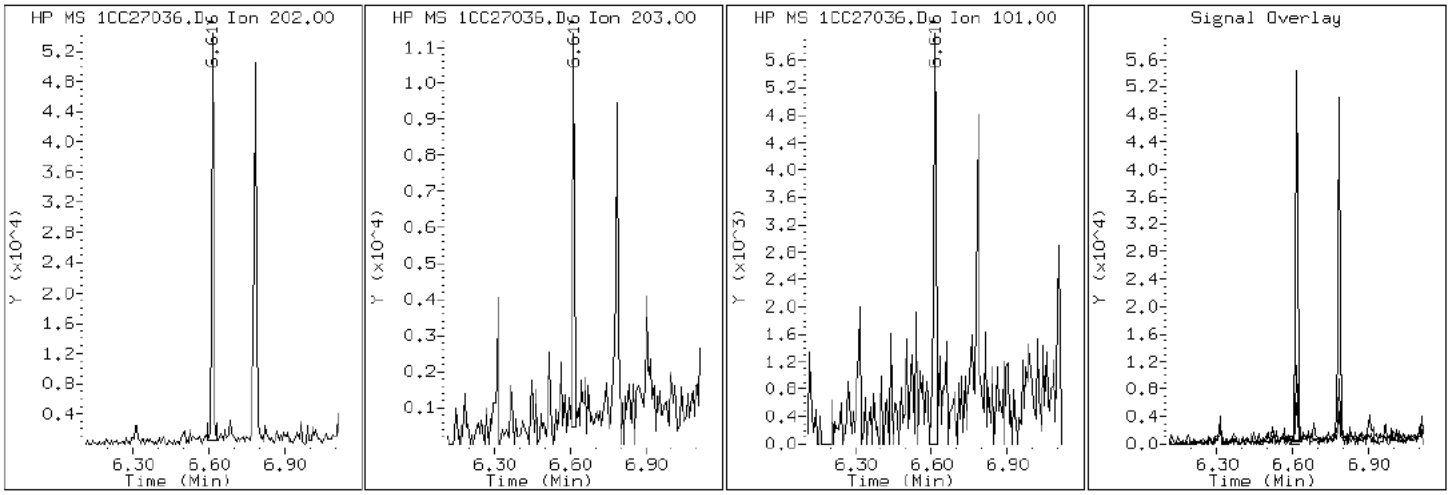
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

15 Fluoranthene



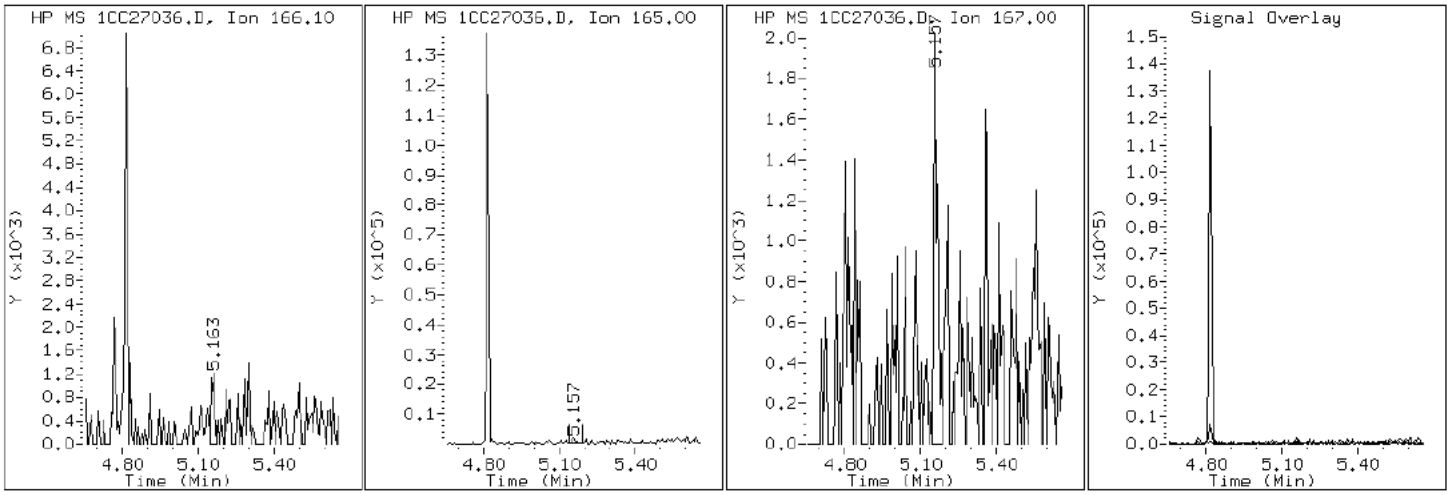
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

9 Fluorene



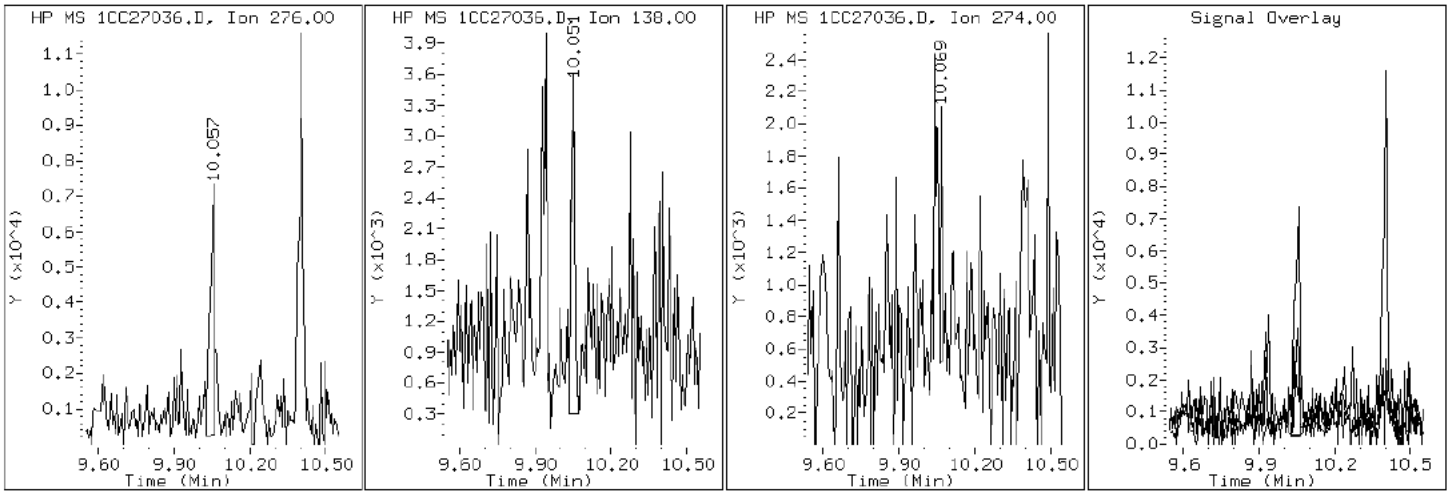
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

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



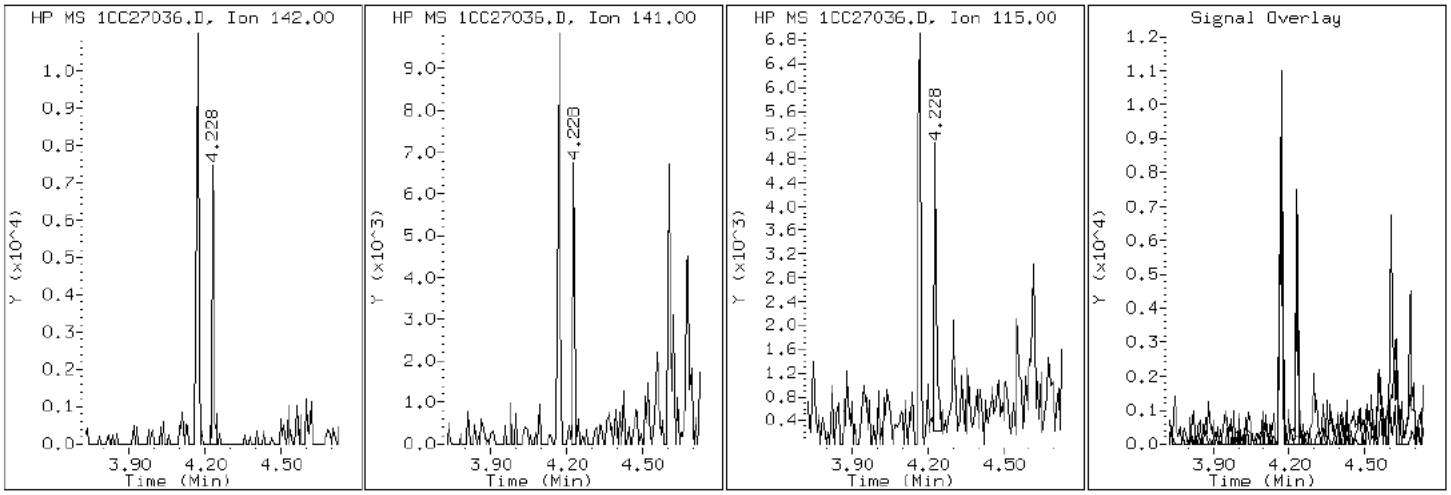
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

4 1-Methylnaphthalene



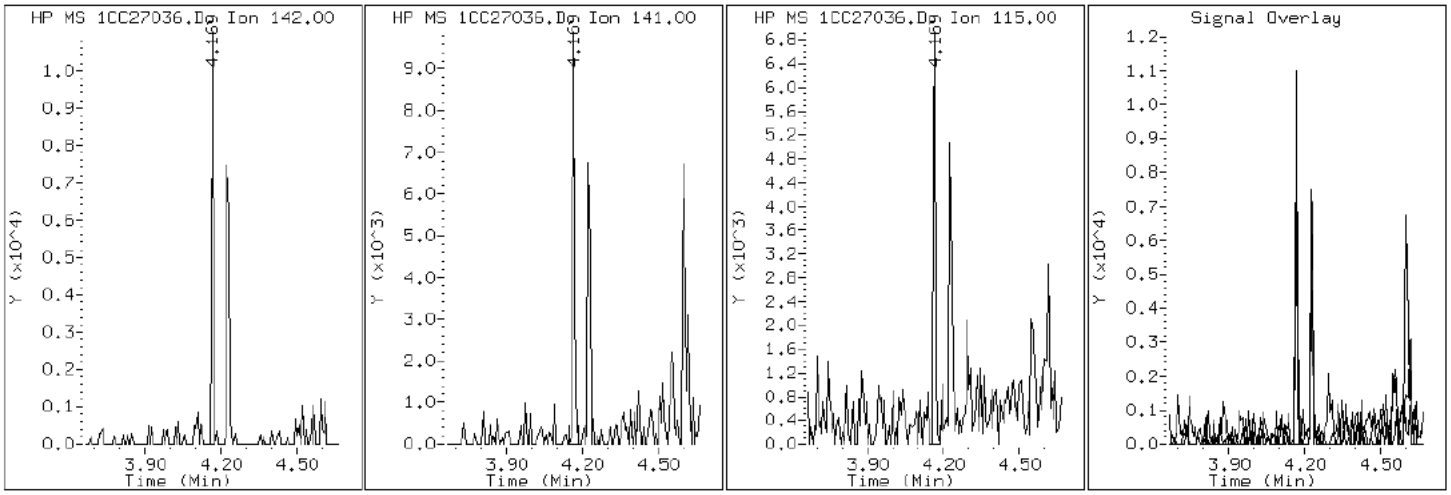
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

3 2-Methylnaphthalene



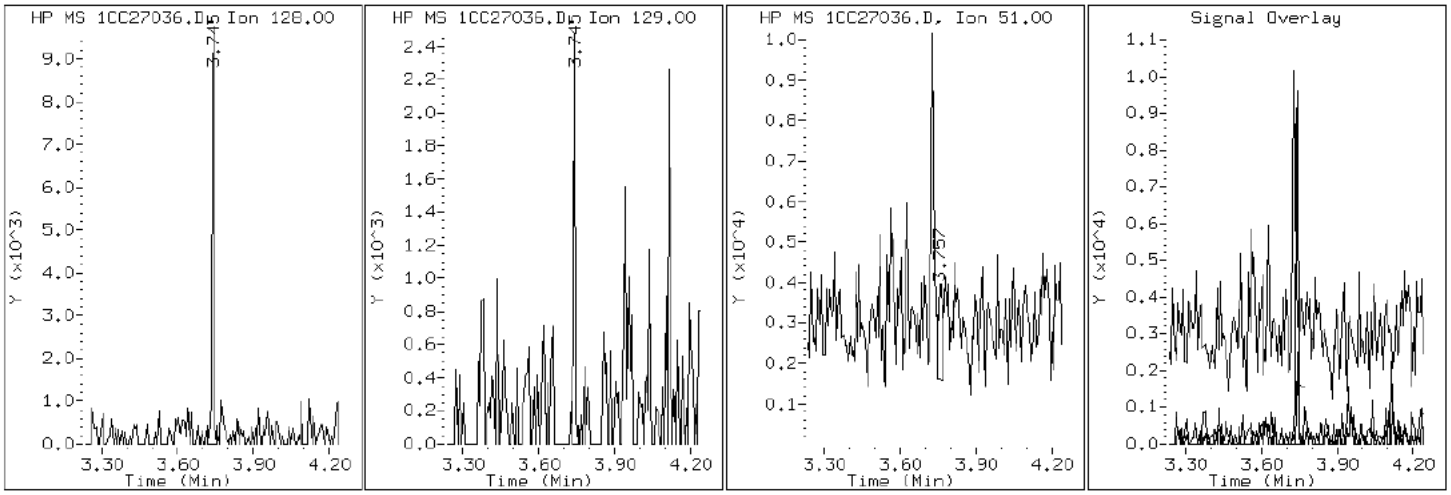
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

2 Naphthalene



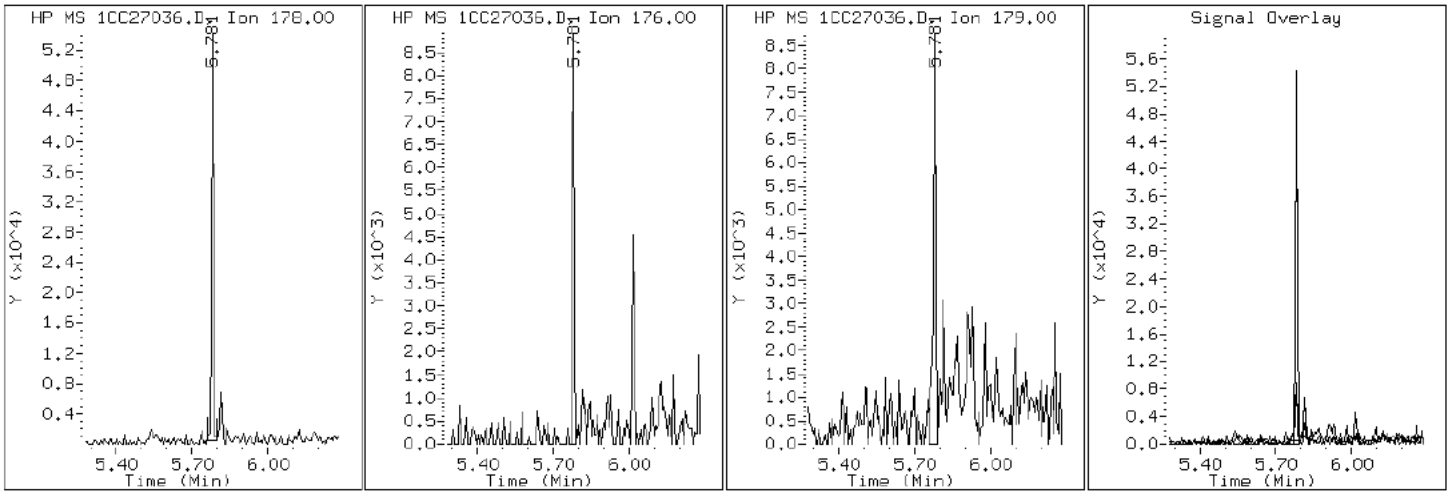
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

11 Phenanthrene



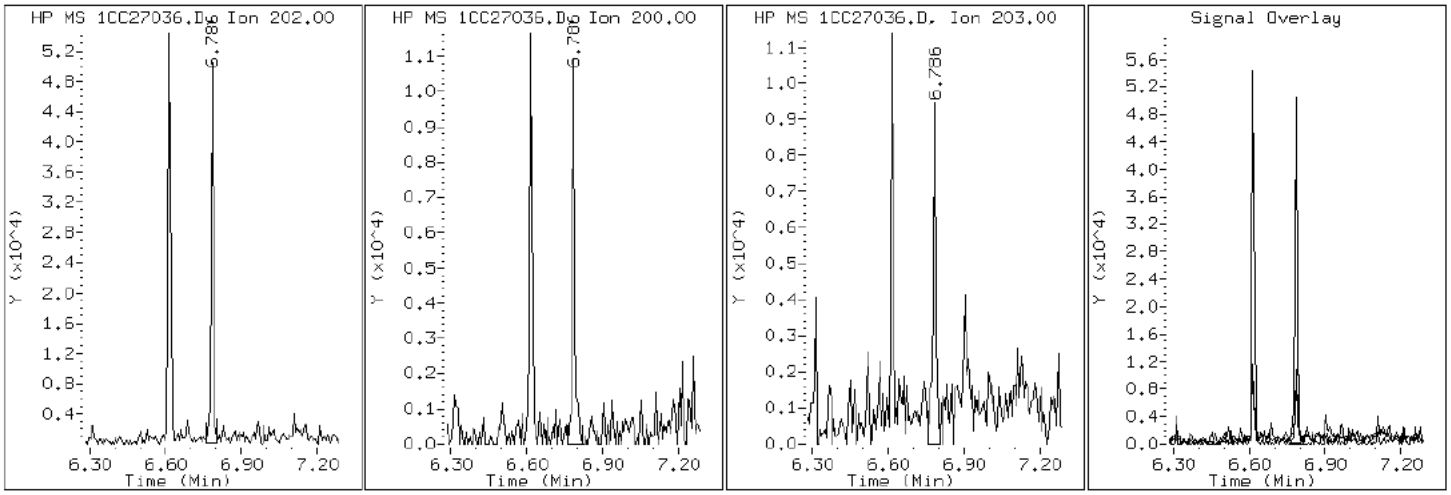
Data File: 1CC27036.D

Date: 27-MAR-2013 20:53

Client ID: CV0292A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-88420-a-35-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CC27036.D
Inj. Date and Time: 27-MAR-2013 20:53
Instrument ID: BSMC5973.i
Client ID: CV0292A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/28/2013

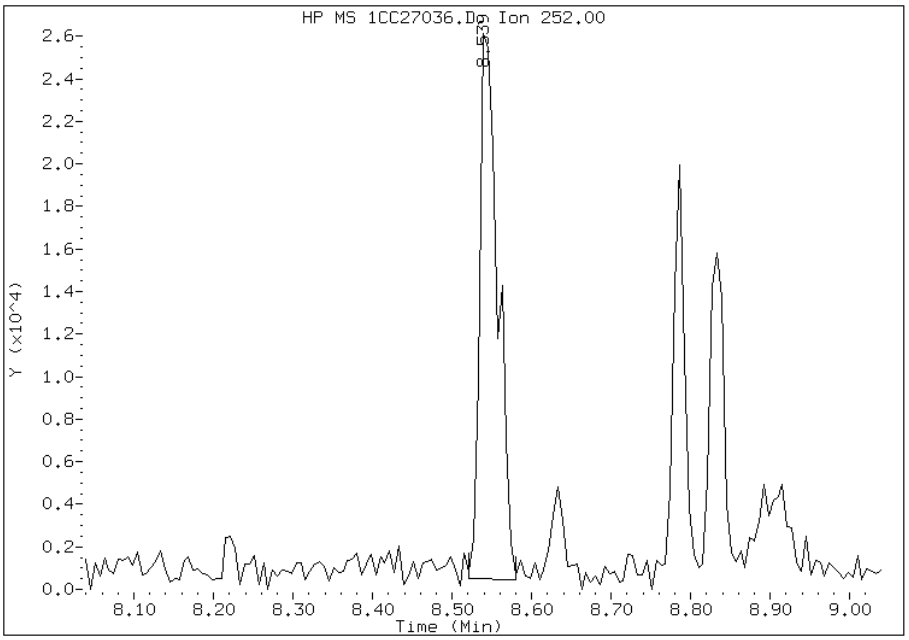
Processing Integration Results

RT: 8.54

Response: 40919

Amount: 1

Conc: 135



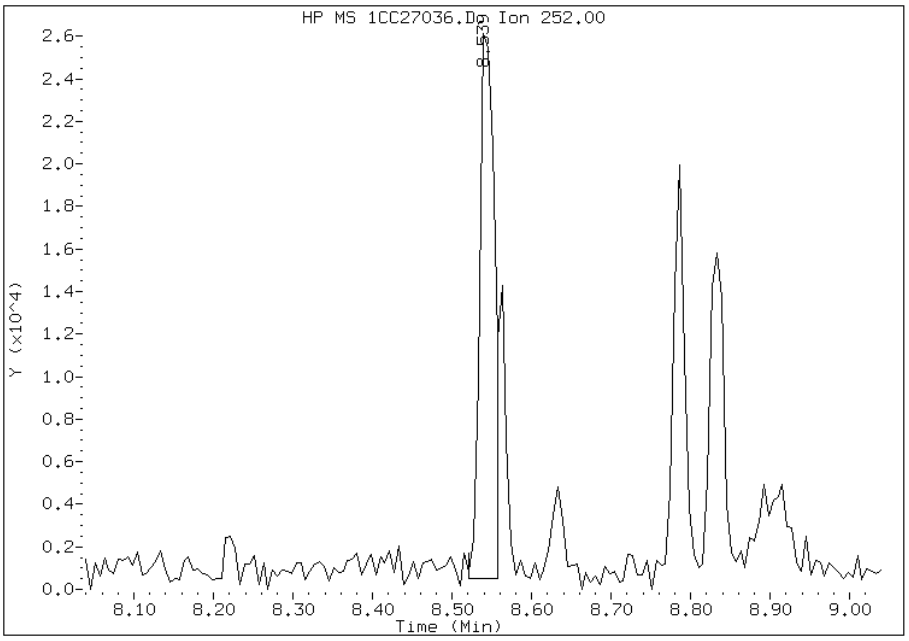
Manual Integration Results

RT: 8.54

Response: 33072

Amount: 1

Conc: 109



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC27036.D
Inj. Date and Time: 27-MAR-2013 20:53
Instrument ID: BSMC5973.i
Client ID: CV0292A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/28/2013

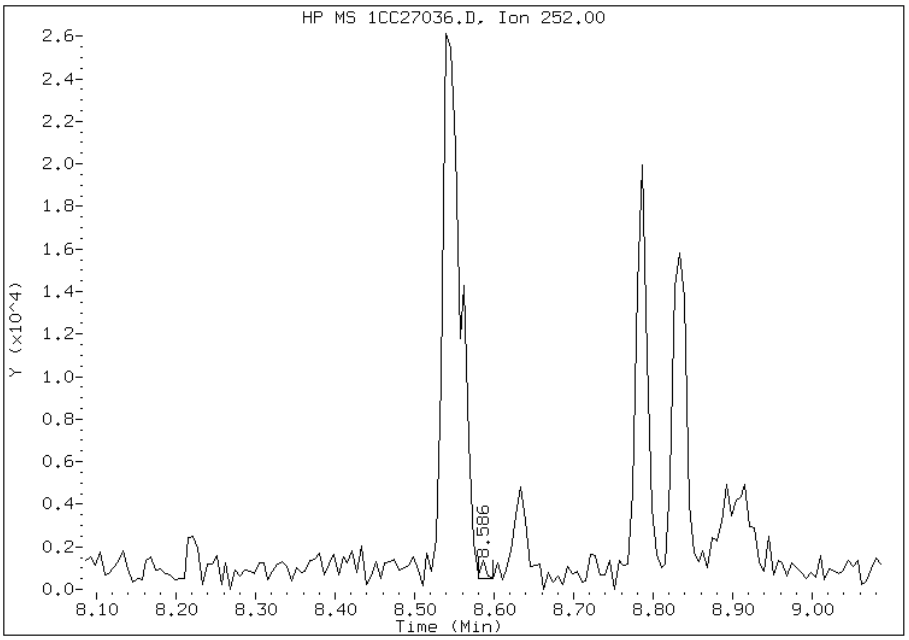
Processing Integration Results

RT: 8.59

Response: 392

Amount: 0

Conc: 1



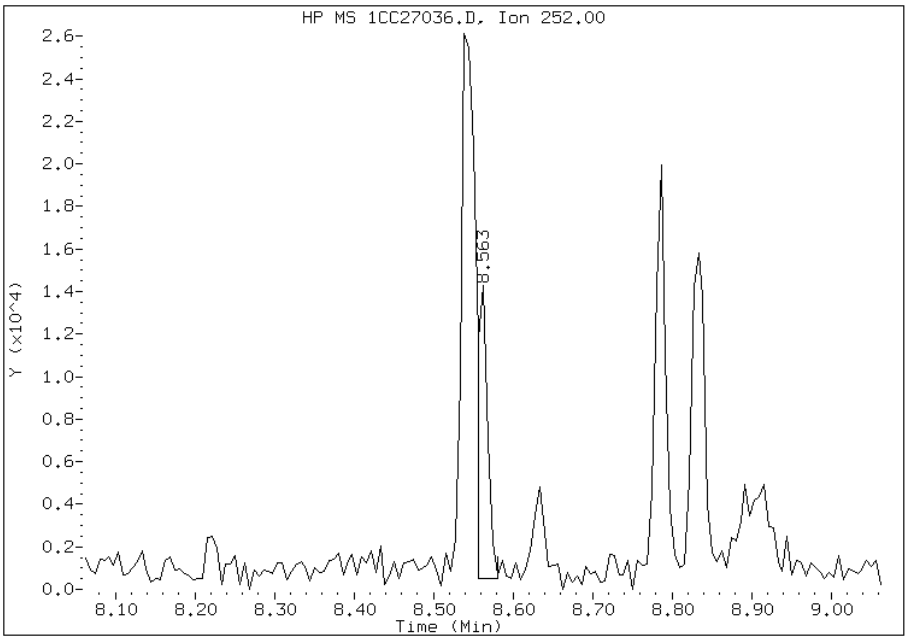
Manual Integration Results

RT: 8.56

Response: 11771

Amount: 0

Conc: 38



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC27036.D
Inj. Date and Time: 27-MAR-2013 20:53
Instrument ID: BSMC5973.i
Client ID: CV0292A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

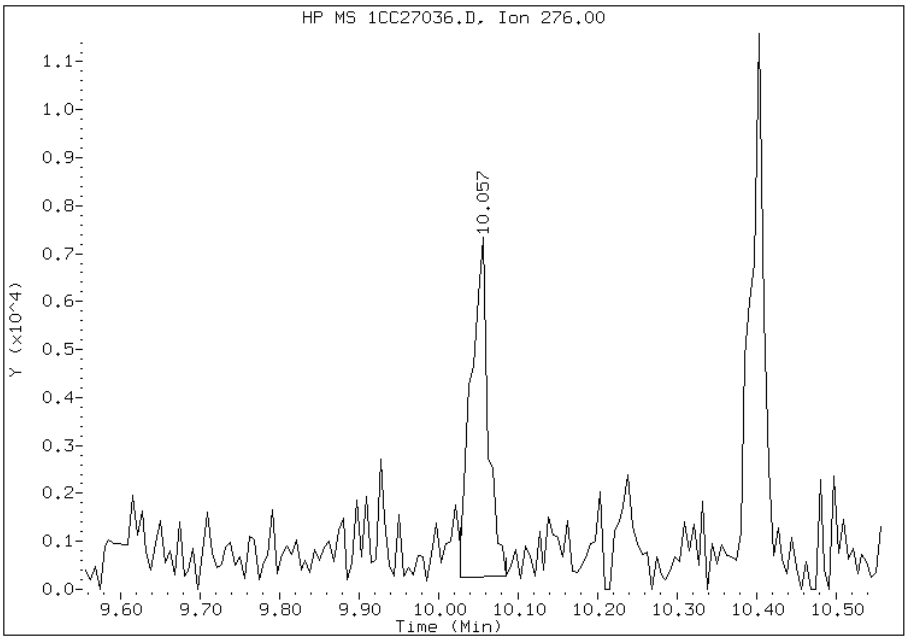
Processing Integration Results

RT: 10.06

Response: 10567

Amount: 0

Conc: 38



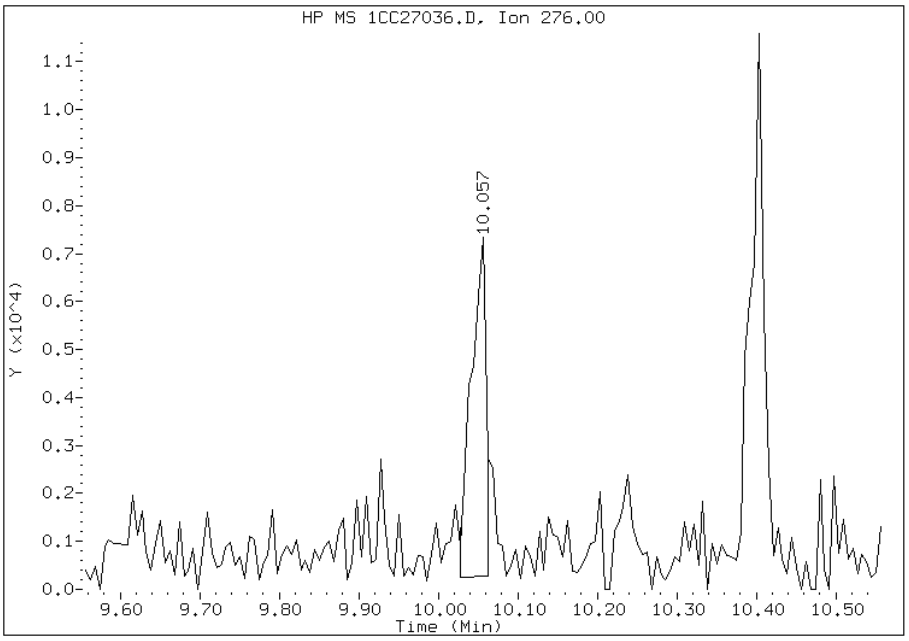
Manual Integration Results

RT: 10.06

Response: 9314

Amount: 0

Conc: 34



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0292B-CS-SP | Lab Sample ID: 680-88420-36

Matrix: Solid | Lab File ID: 1AC26027.D

Analysis Method: 8270C LL | Date Collected: 03/15/2013 08:40

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 15.25(g) | Date Analyzed: 03/26/2013 19:24

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

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

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

Analysis Batch No.: 135850 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	29	J	55	6.9
120-12-7	Anthracene	31		12	5.8
56-55-3	Benzo[a]anthracene	85		11	5.4
50-32-8	Benzo[a]pyrene	49		14	7.2
205-99-2	Benzo[b]fluoranthene	210		17	8.5
191-24-2	Benzo[g,h,i]perylene	56		28	6.1
207-08-9	Benzo[k]fluoranthene	33		11	5.0
218-01-9	Chrysene	180		12	6.2
53-70-3	Dibenz(a,h)anthracene	18	J	28	5.7
206-44-0	Fluoranthene	120		28	5.5
86-73-7	Fluorene	31		28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	45		28	9.9
90-12-0	1-Methylnaphthalene	79		55	6.1
91-57-6	2-Methylnaphthalene	180		55	9.9
91-20-3	Naphthalene	76		55	6.1
85-01-8	Phenanthrene	150		11	5.4
129-00-0	Pyrene	140		28	5.1

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\1A032613.b\1AC26027.D
Lab Smp Id: 680-88420-A-36-A Client Smp ID: CV0292B-CS-SP
Inj Date : 26-MAR-2013 19:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88420-A-36-A
Misc Info : 680-88420-A-36-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	29.103	% 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	2.279	2.272	(1.000)	642643	40.0000	
* 6 Acenaphthene-d10	164	3.304	3.287	(1.000)	564810	40.0000	
* 10 Phenanthrene-d10	188	4.223	4.205	(1.000)	754209	40.0000	
$ 14 o-Terphenyl	230	4.490	4.478	(1.063)	65603	6.65798	615.8053
* 18 Chrysene-d12	240	6.221	6.193	(1.000)	552295	40.0000	
* 23 Perylene-d12	264	7.322	7.272	(1.000)	717254	40.0000	(H)
2 Naphthalene	128	2.289	2.282	(1.005)	12232	0.82386	76.1997
3 2-Methylnaphthalene	141	2.690	2.683	(1.180)	9702	1.94606	179.9942
4 1-Methylnaphthalene	142	2.743	2.736	(1.204)	7278	0.85248	78.8469
5 Acenaphthylene	152	3.214	3.201	(0.973)	2930	0.31061	28.7286
9 Fluorene	166	3.625	3.612	(1.097)	1742	0.33176	30.6849(Q)
11 Phenanthrene	178	4.234	4.221	(1.003)	30471	1.59407	147.4377
12 Anthracene	178	4.266	4.253	(1.010)	6148	0.33170	30.6796
13 Carbazole	167	4.432	4.408	(1.049)	2986	0.18381	17.0006

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.083	5.065	(1.204)	24923	1.31901	121.9968
16 Pyrene	202	5.249	5.226	(0.844)	23963	1.51324	139.9615
17 Benzo(a)anthracene	228	6.216	6.177	(0.999)	11956	0.91487	84.6176(QMH)
19 Chrysene	228	6.232	6.209	(1.002)	27137	1.89708	175.4631(M)
20 Benzo(b)fluoranthene	252	7.028	6.994	(0.960)	21904	2.31098	213.7455(MH)
21 Benzo(k)fluoranthene	252	7.044	7.015	(0.962)	6828	0.35292	32.6418(QMH)
22 Benzo(a)pyrene	252	7.263	7.224	(0.992)	8861	0.52642	48.6895(H)
24 Indeno(1,2,3-cd)pyrene	276	8.011	7.972	(1.094)	7334	0.48288	44.6623(MH)
25 Dibenzo(a,h)anthracene	278	8.021	7.982	(1.096)	2947	0.19578	18.1077(H)
26 Benzo(g,h,i)perylene	276	8.203	8.148	(1.120)	9315	0.60929	56.3541(H)

QC Flag Legend

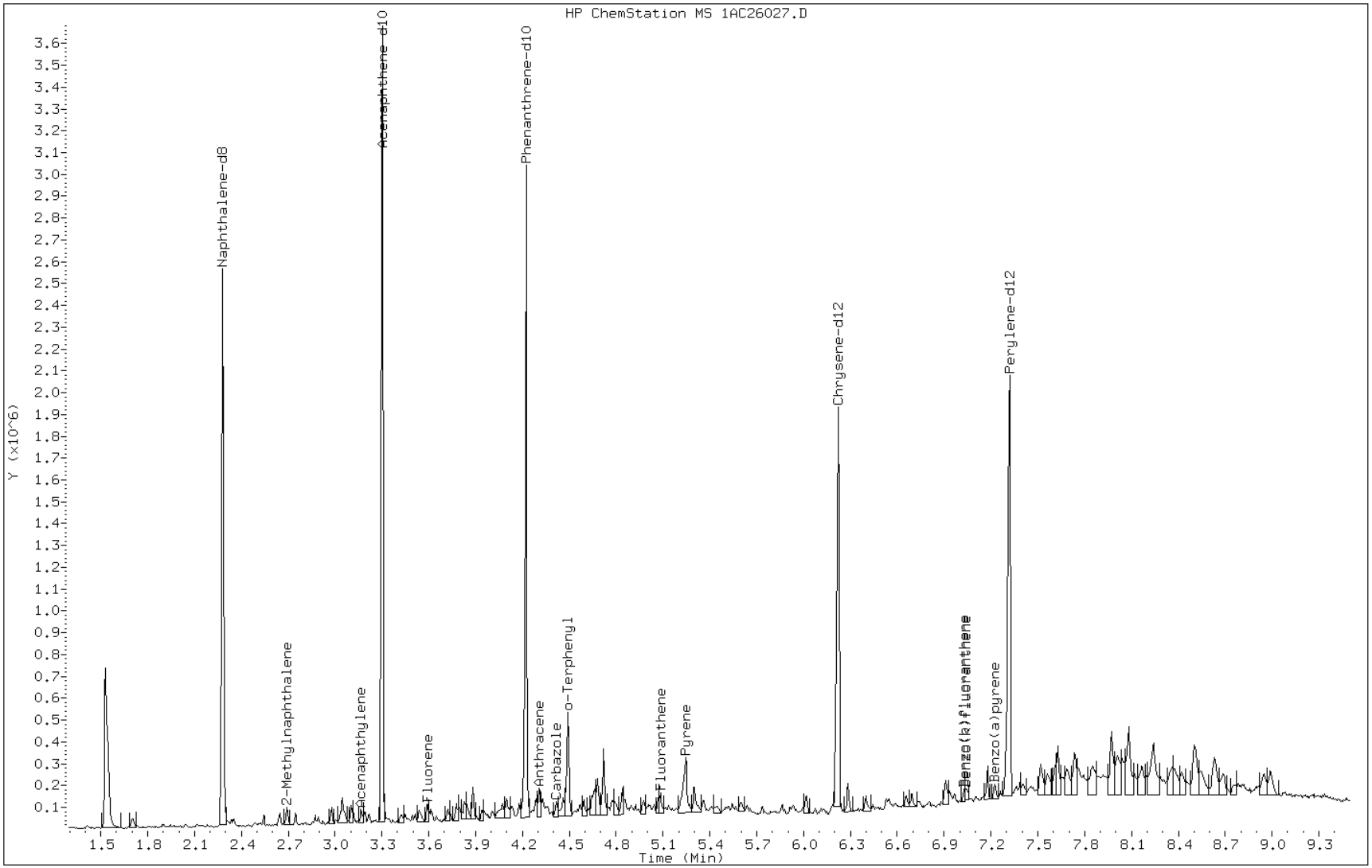
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC



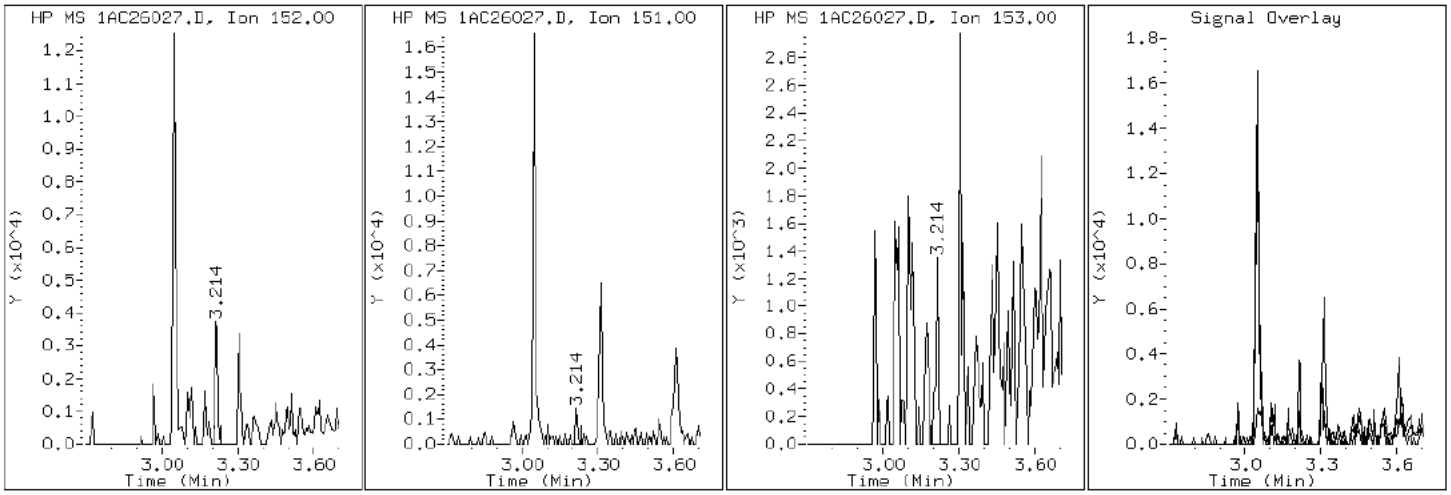
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

5 Acenaphthylene



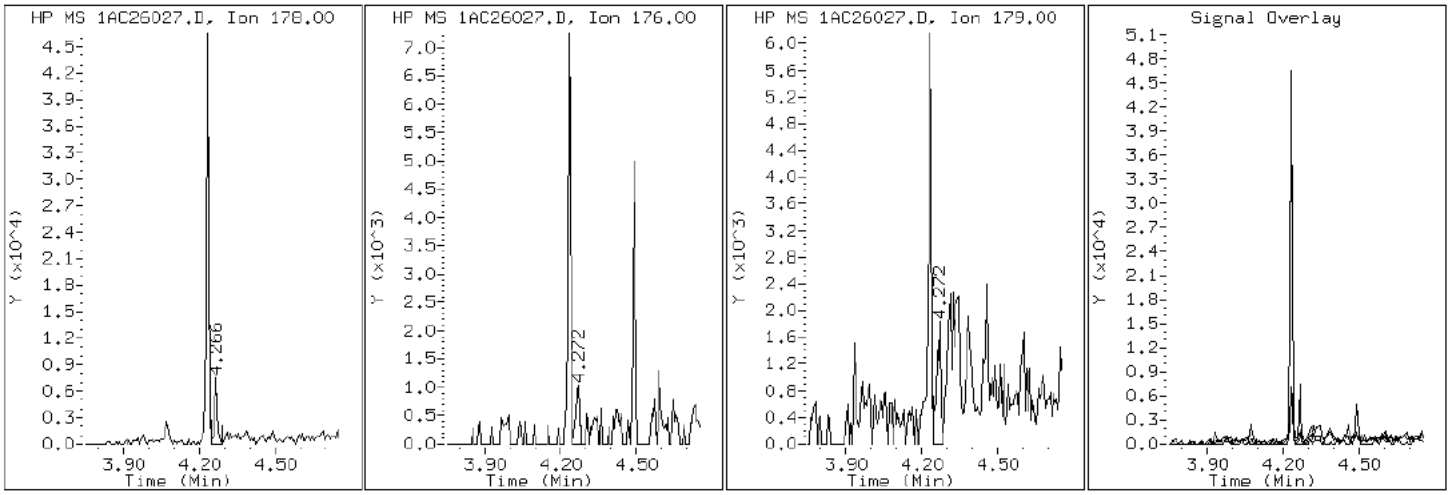
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

12 Anthracene



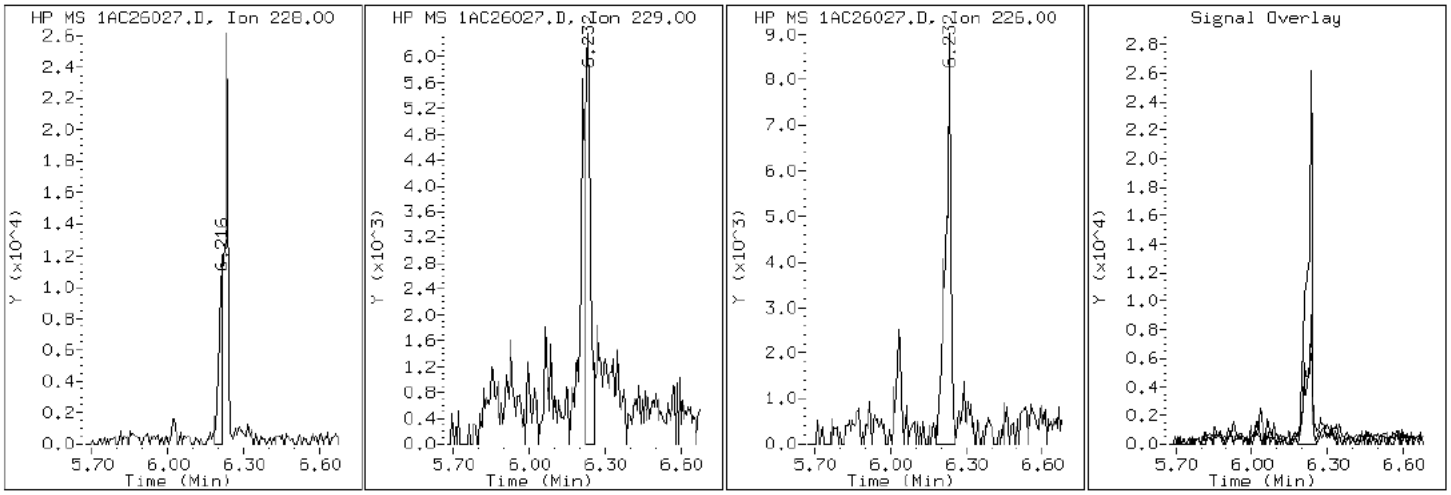
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

17 Benzo(a)anthracene



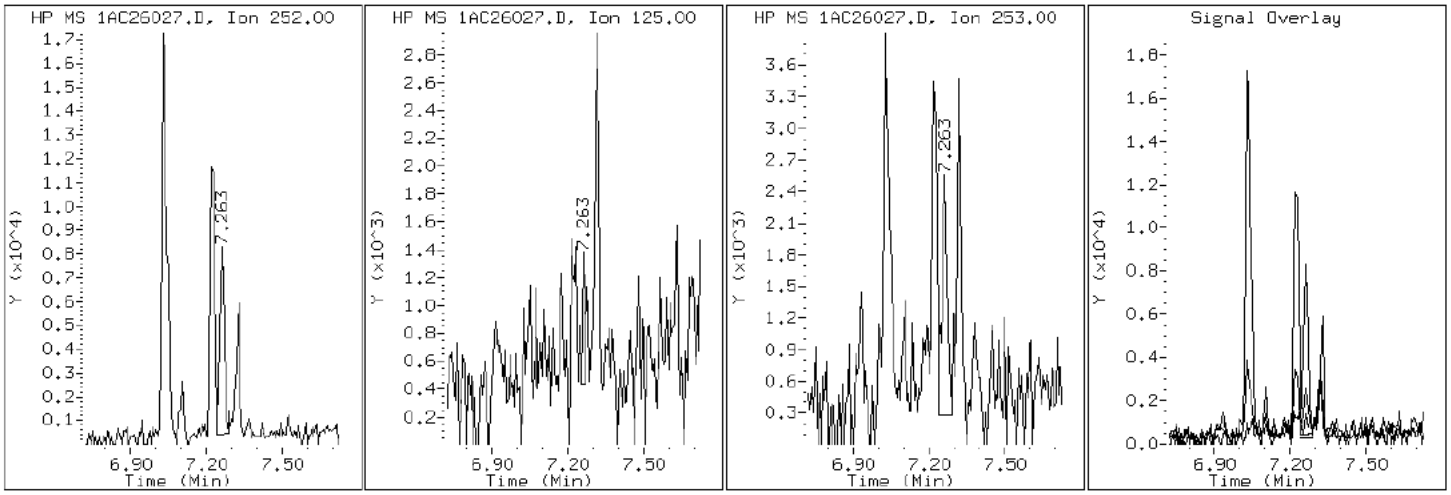
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

22 Benzo(a)pyrene



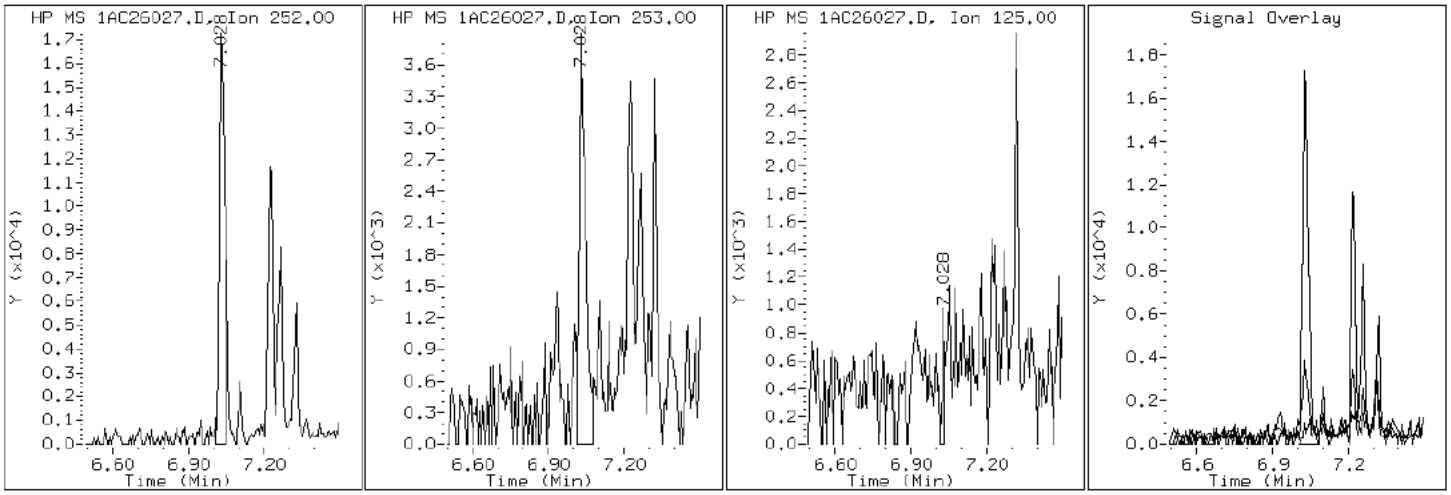
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

20 Benzo(b)fluoranthene



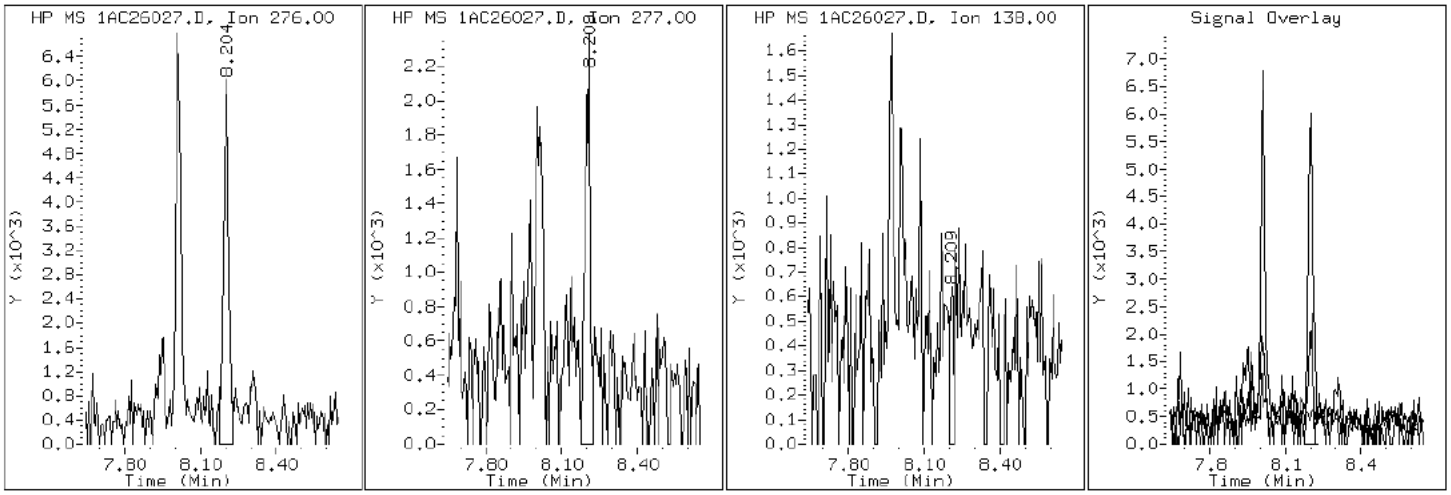
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

26 Benzo(g,h,i)perylene



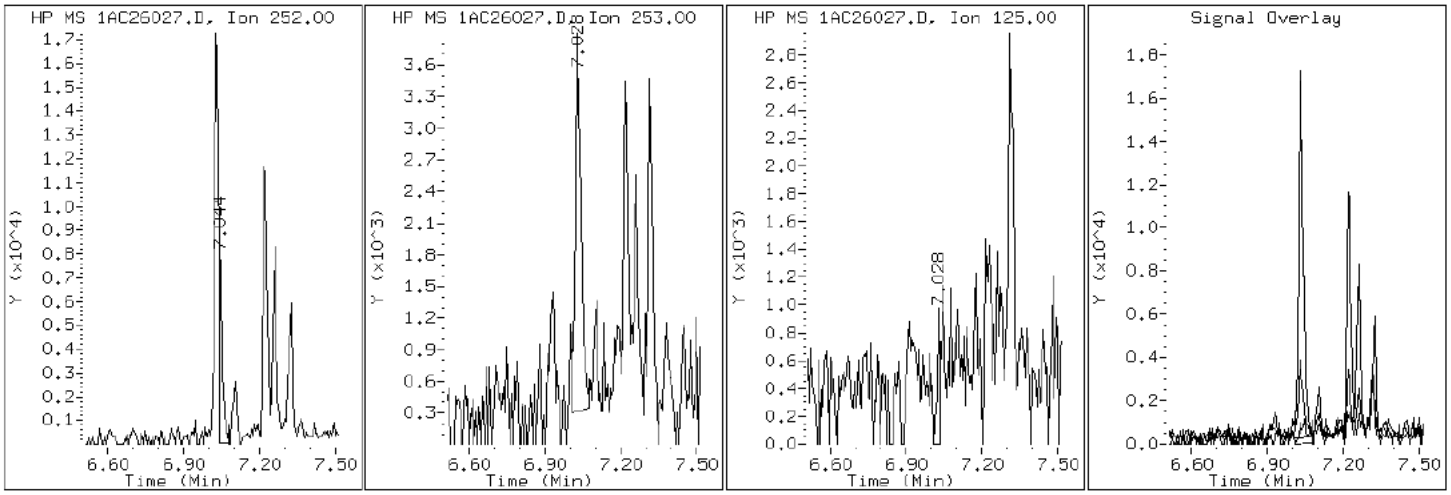
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

21 Benzo(k)fluoranthene



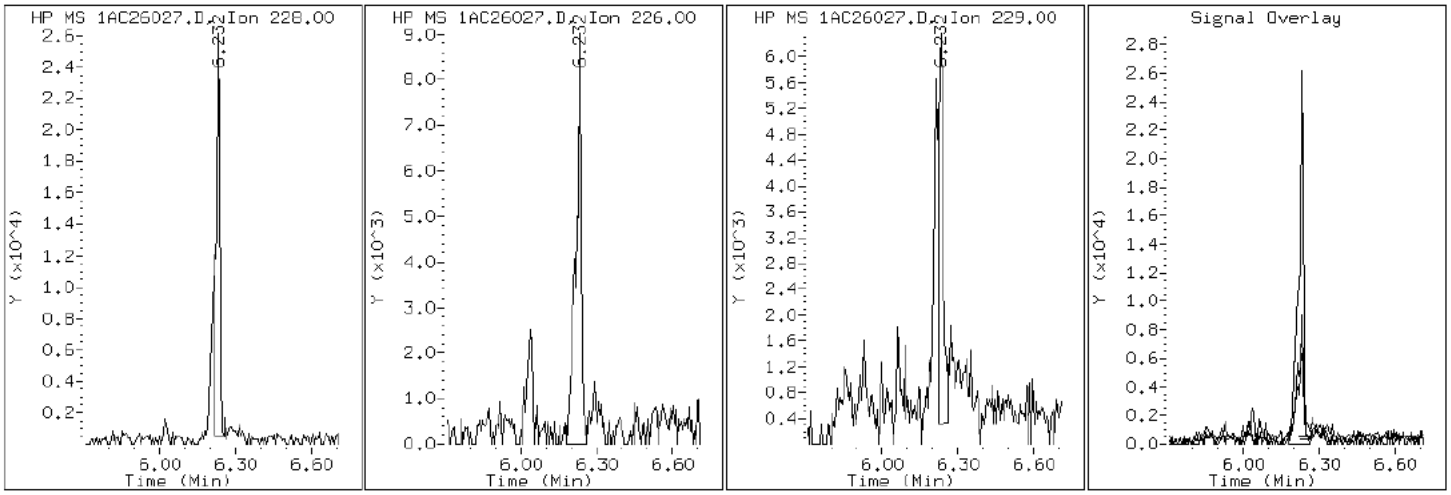
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

19 Chrysene



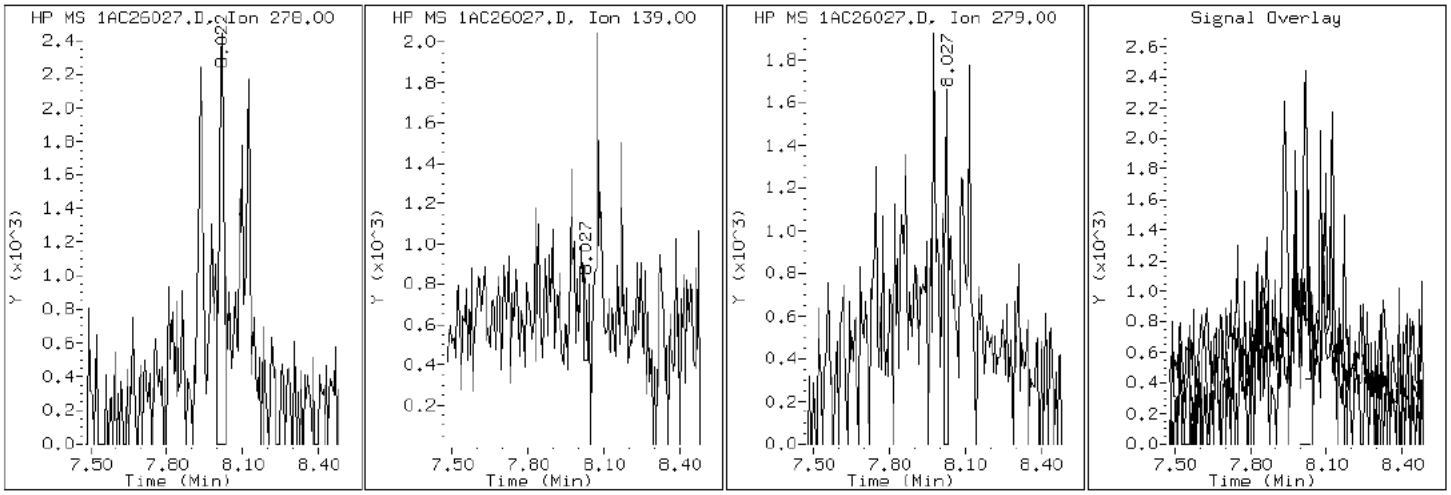
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

25 Dibenzo(a,h)anthracene



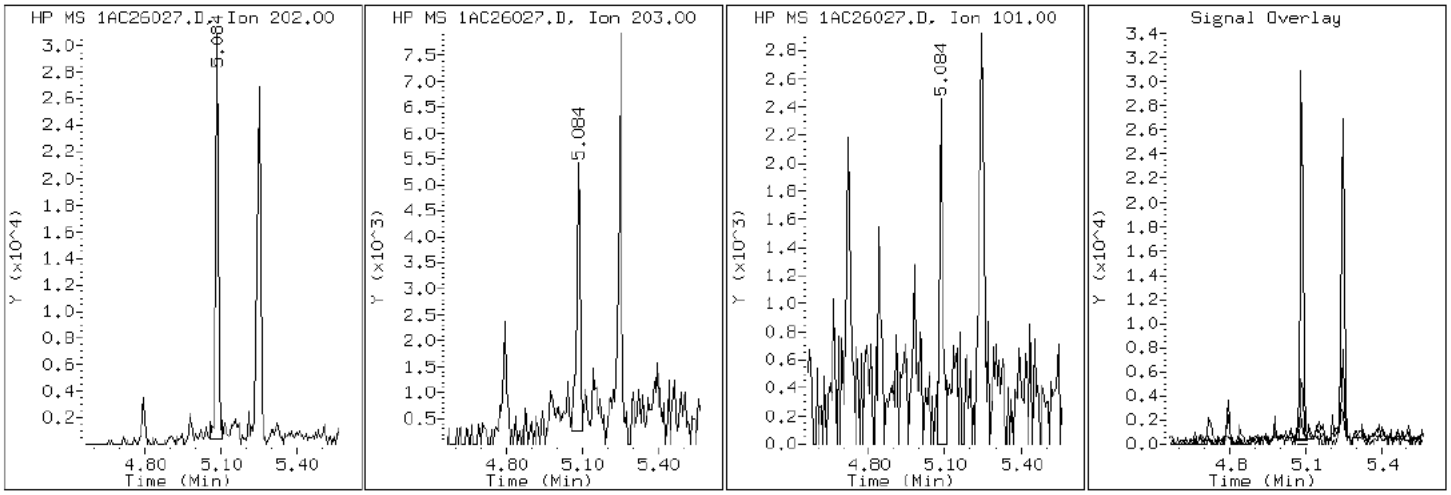
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

15 Fluoranthene



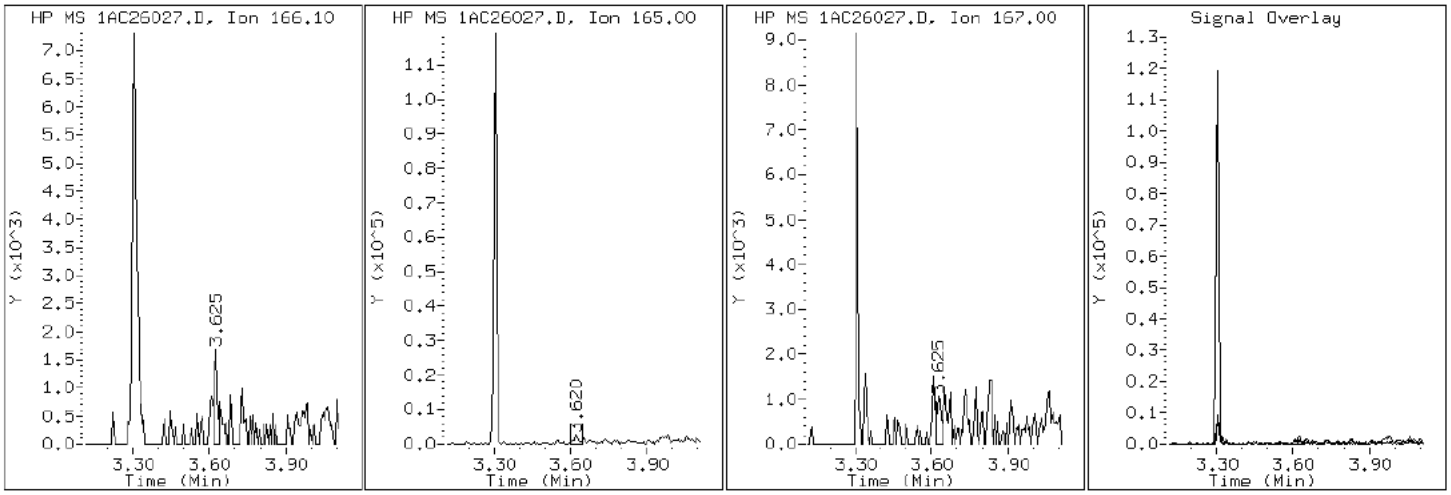
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

9 Fluorene



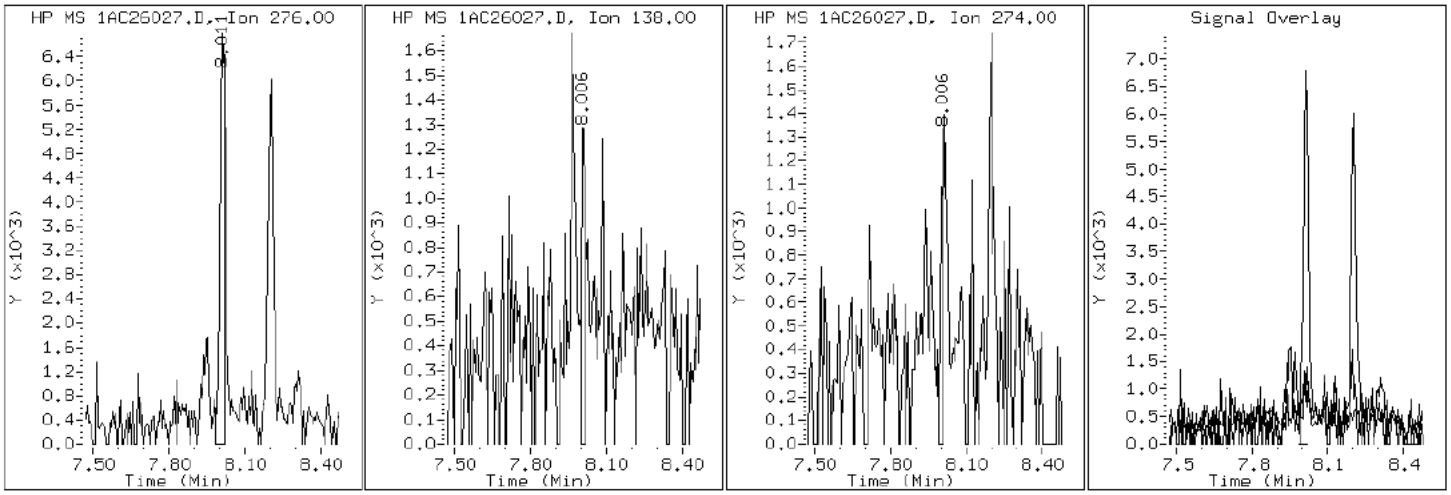
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

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



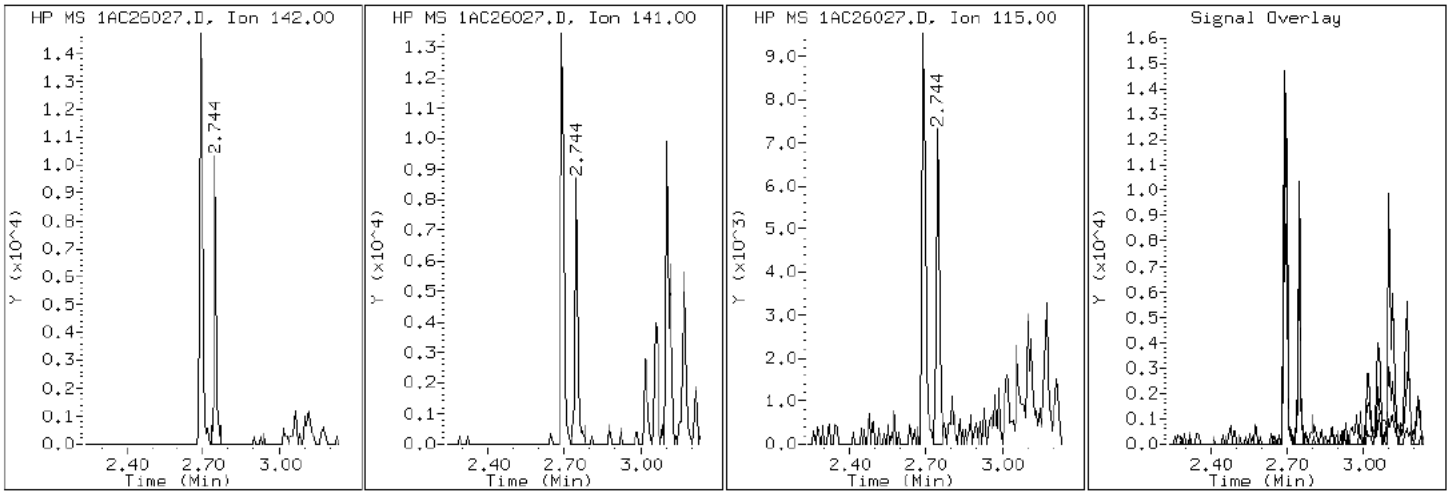
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

4 1-Methylnaphthalene



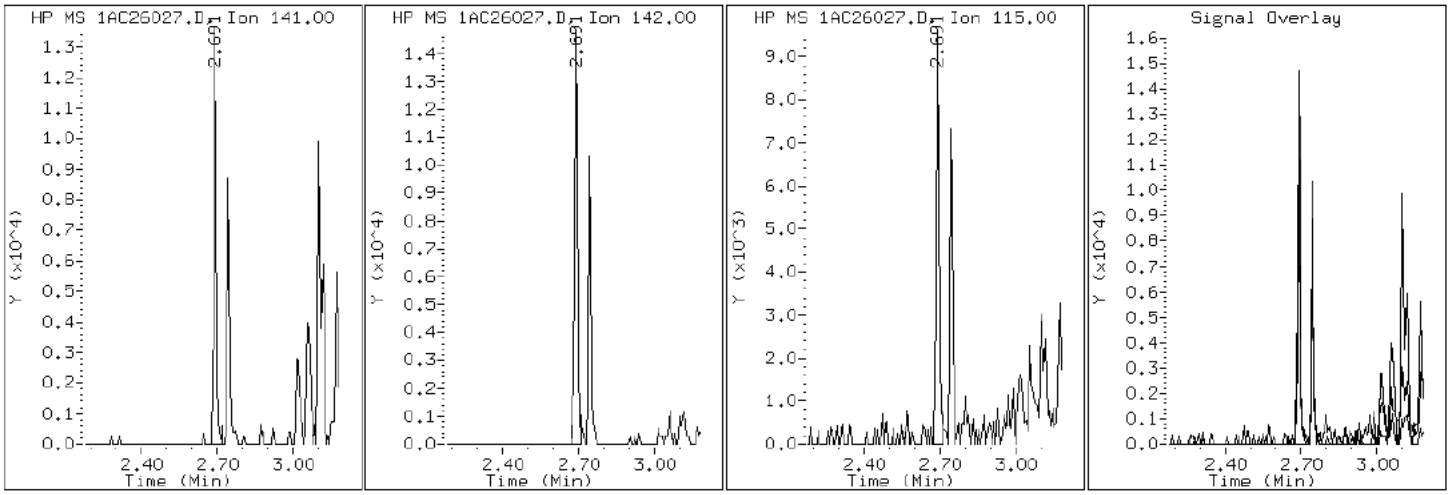
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

3 2-Methylnaphthalene



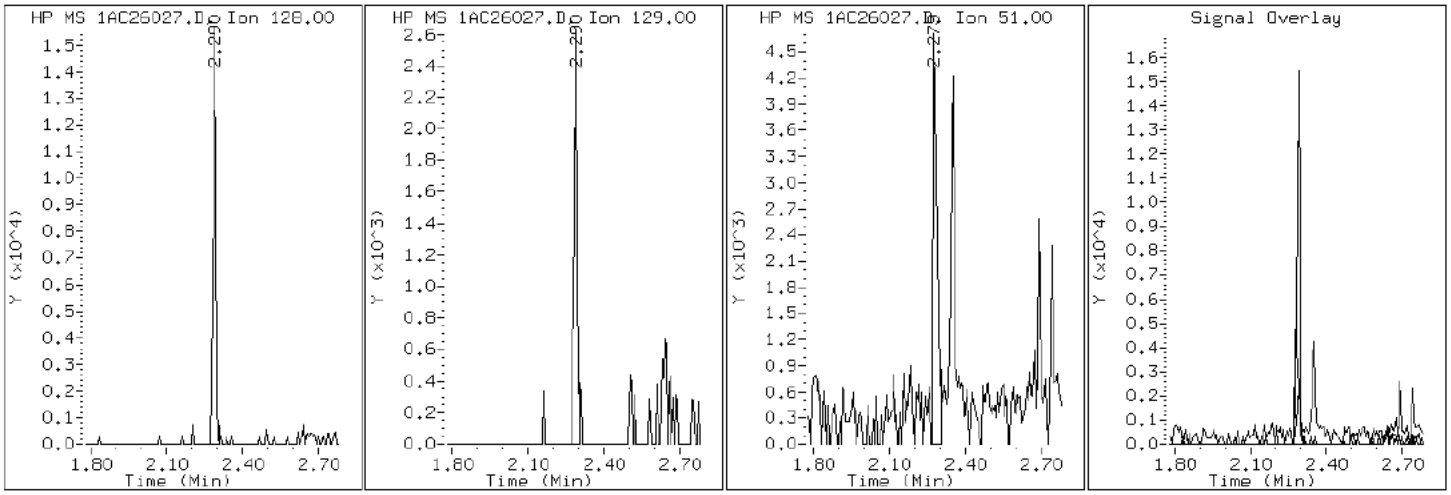
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

2 Naphthalene



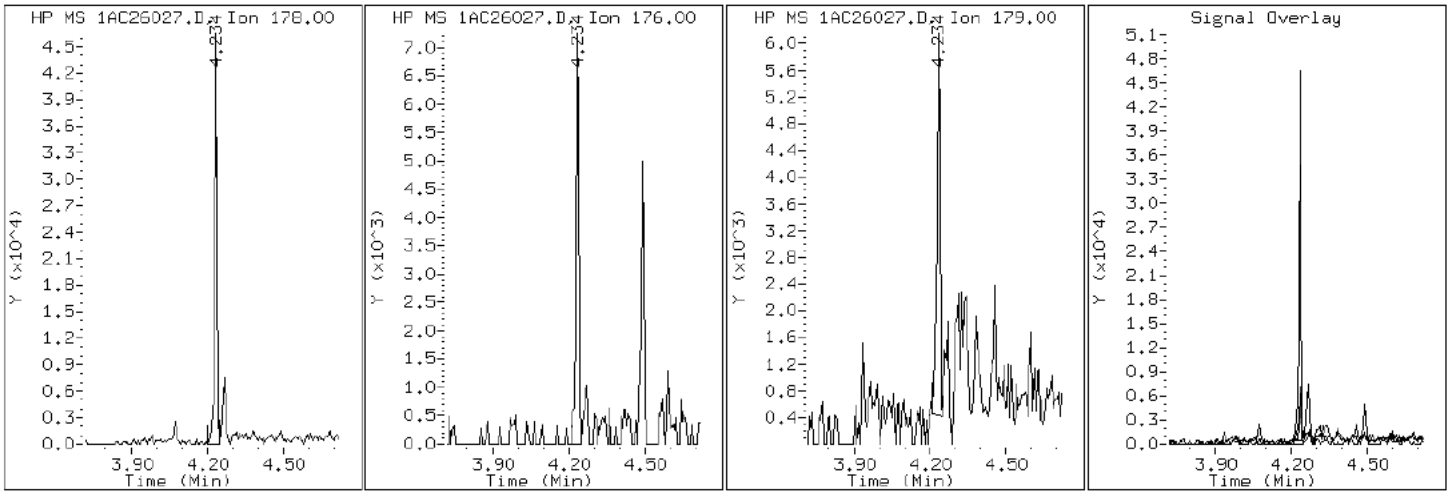
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

11 Phenanthrene



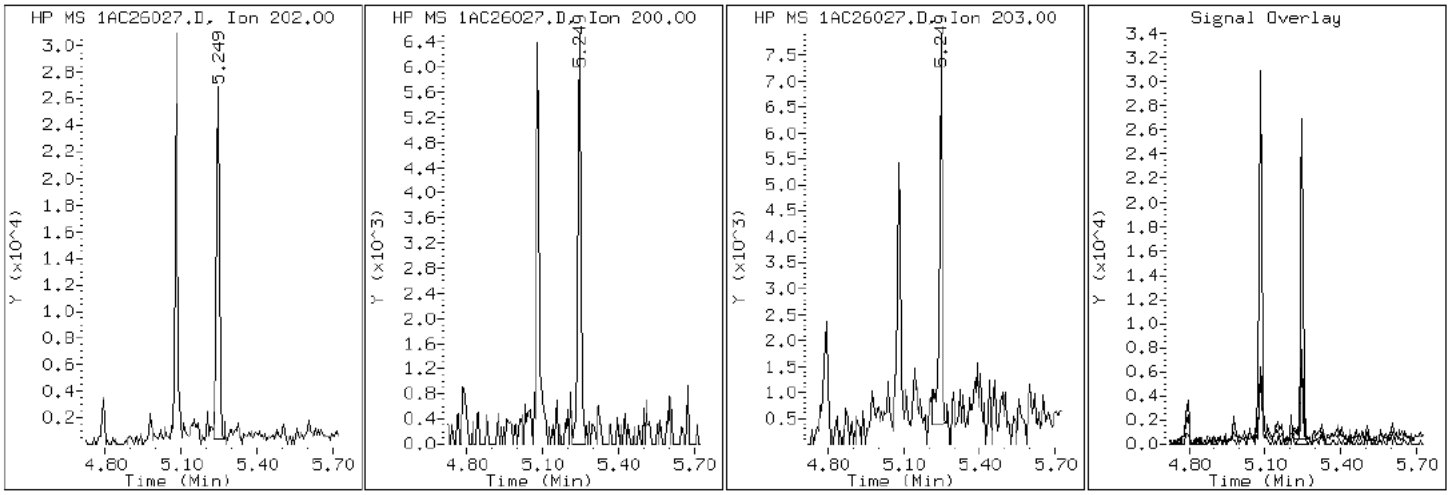
Data File: 1AC26027.D

Date: 26-MAR-2013 19:24

Client ID: CV0292B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-36-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AC26027.D
Inj. Date and Time: 26-MAR-2013 19:24
Instrument ID: BSMA5973.i
Client ID: CV0292B-CS-SP
Compound: 17 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 03/28/2013

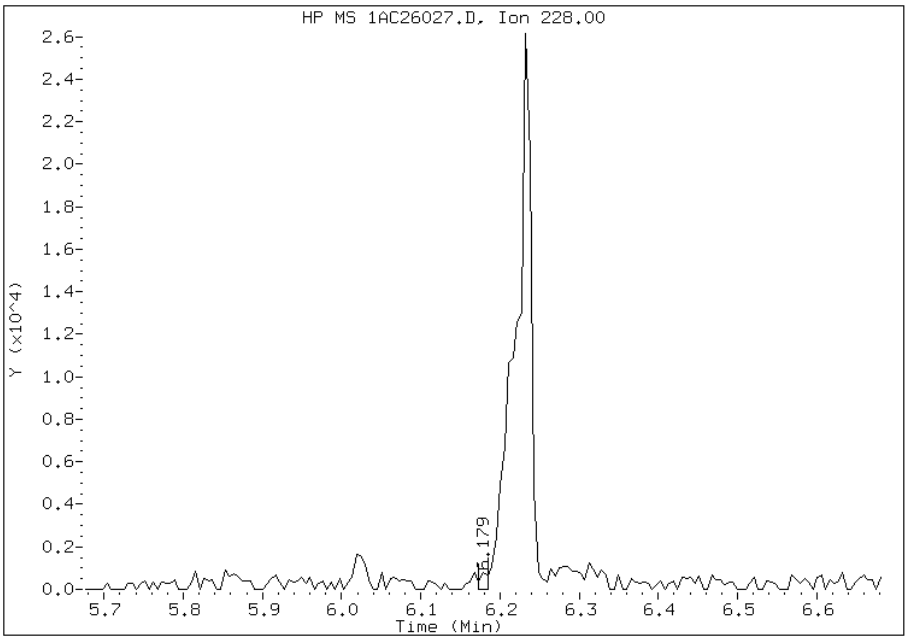
Processing Integration Results

RT: 6.18

Response: 573

Amount: 0

Conc: 19



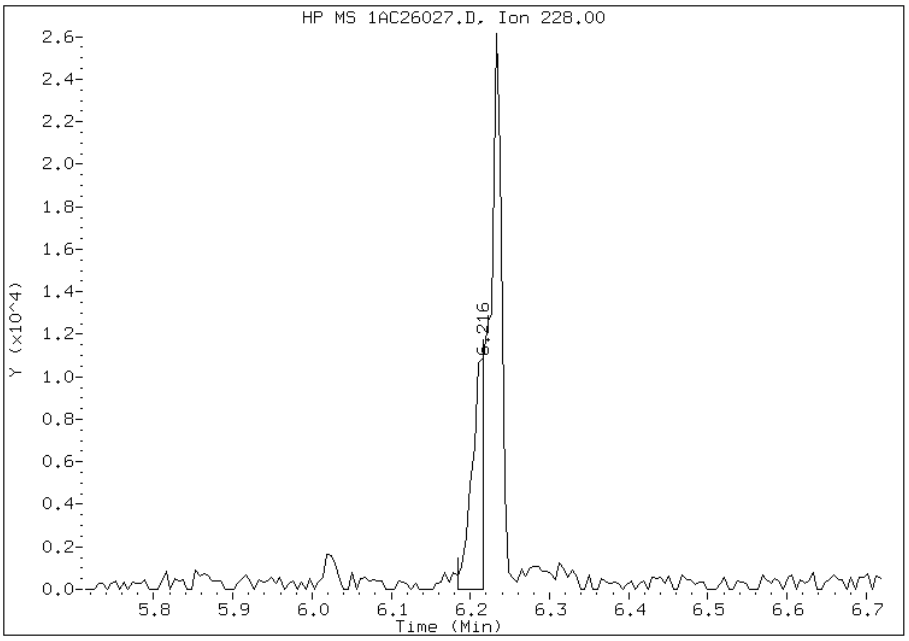
Manual Integration Results

RT: 6.22

Response: 11956

Amount: 1

Conc: 85



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC26027.D
Inj. Date and Time: 26-MAR-2013 19:24
Instrument ID: BSMA5973.i
Client ID: CV0292B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/28/2013

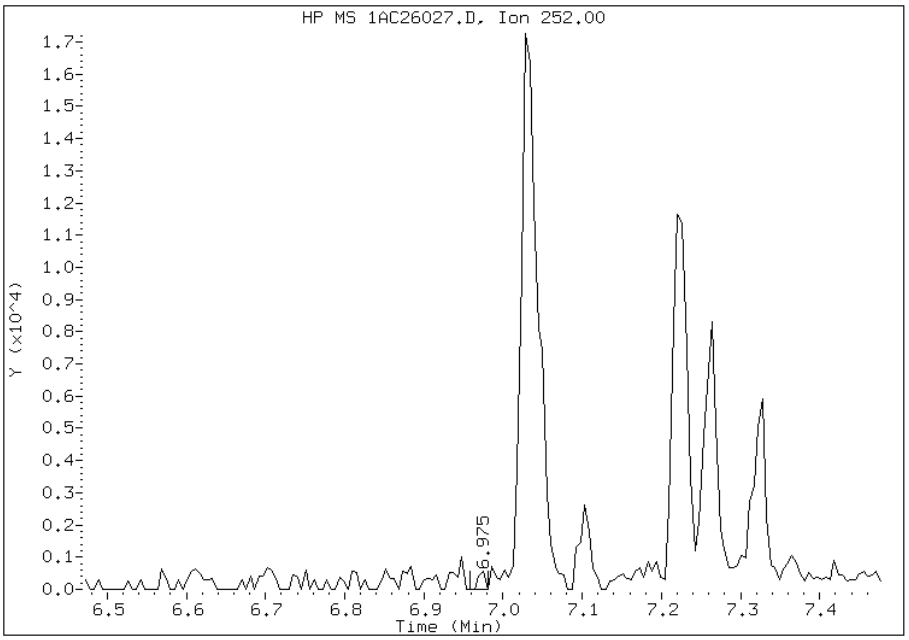
Processing Integration Results

RT: 6.97

Response: 317

Amount: 1

Conc: 113



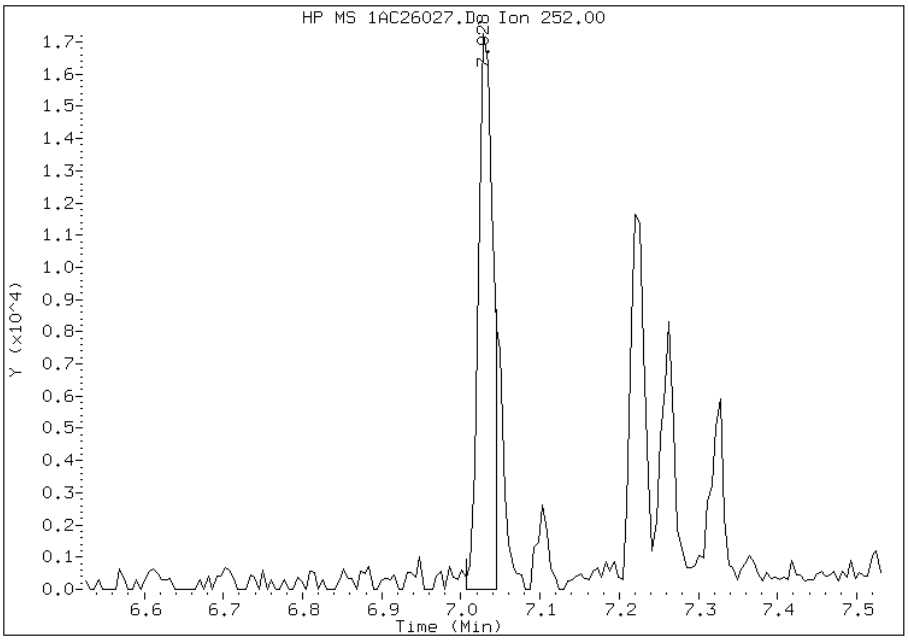
Manual Integration Results

RT: 7.03

Response: 21904

Amount: 2

Conc: 214



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC26027.D
Inj. Date and Time: 26-MAR-2013 19:24
Instrument ID: BSMA5973.i
Client ID: CV0292B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/28/2013

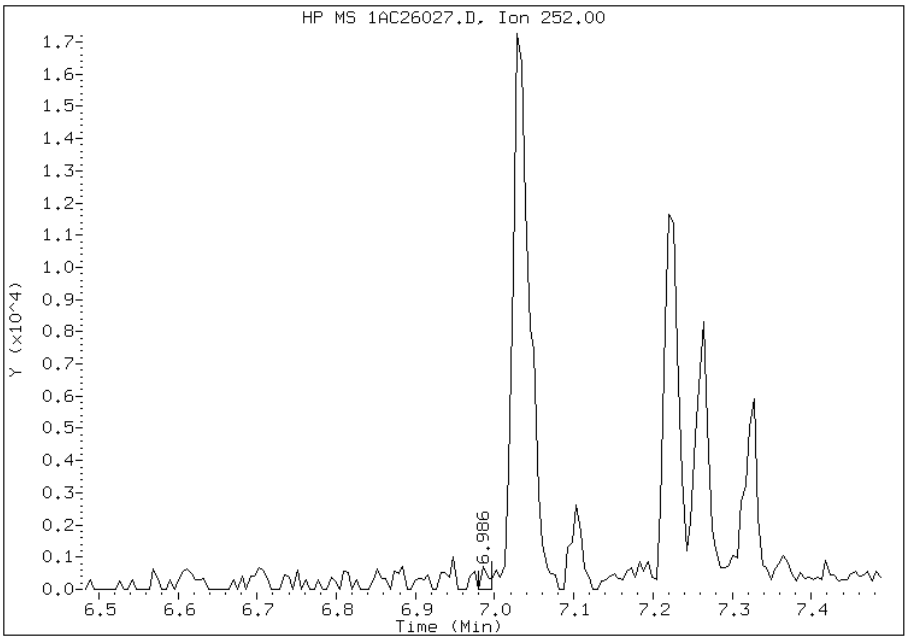
Processing Integration Results

RT: 6.99

Response: 445

Amount: 0

Conc: 2



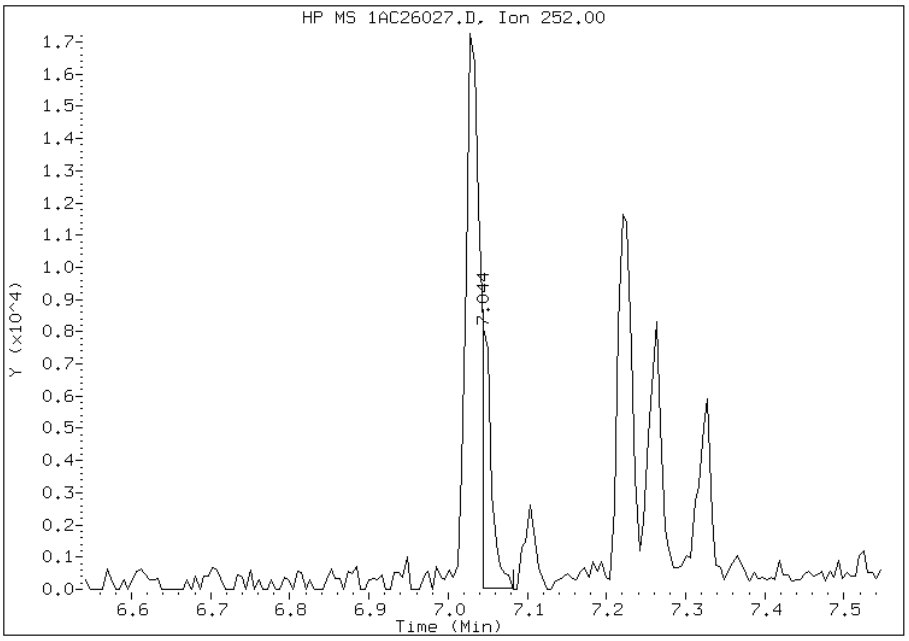
Manual Integration Results

RT: 7.04

Response: 6828

Amount: 0

Conc: 33



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC26027.D
Inj. Date and Time: 26-MAR-2013 19:24
Instrument ID: BSMA5973.i
Client ID: CV0292B-CS-SP
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 03/28/2013

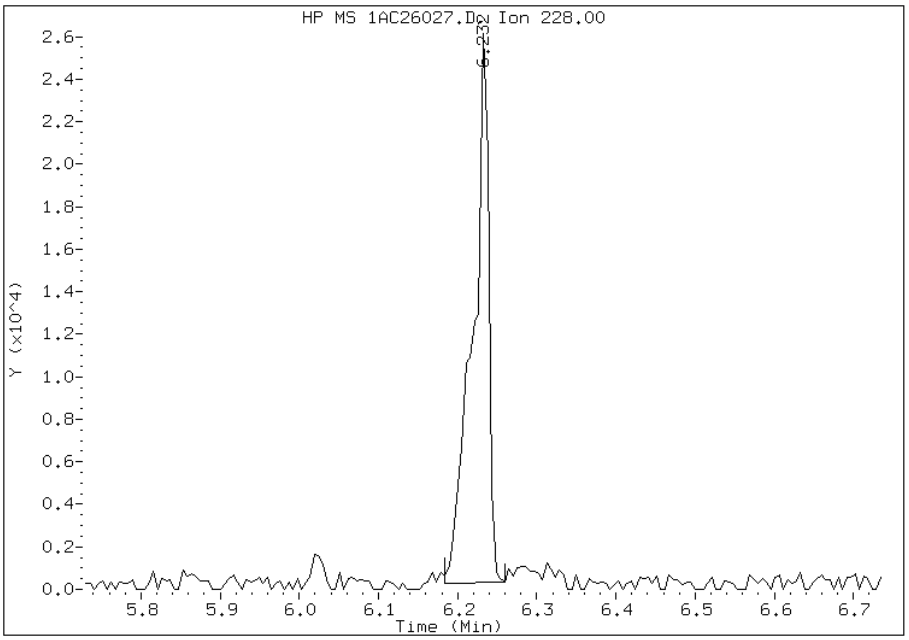
Processing Integration Results

RT: 6.23

Response: 35650

Amount: 2

Conc: 231



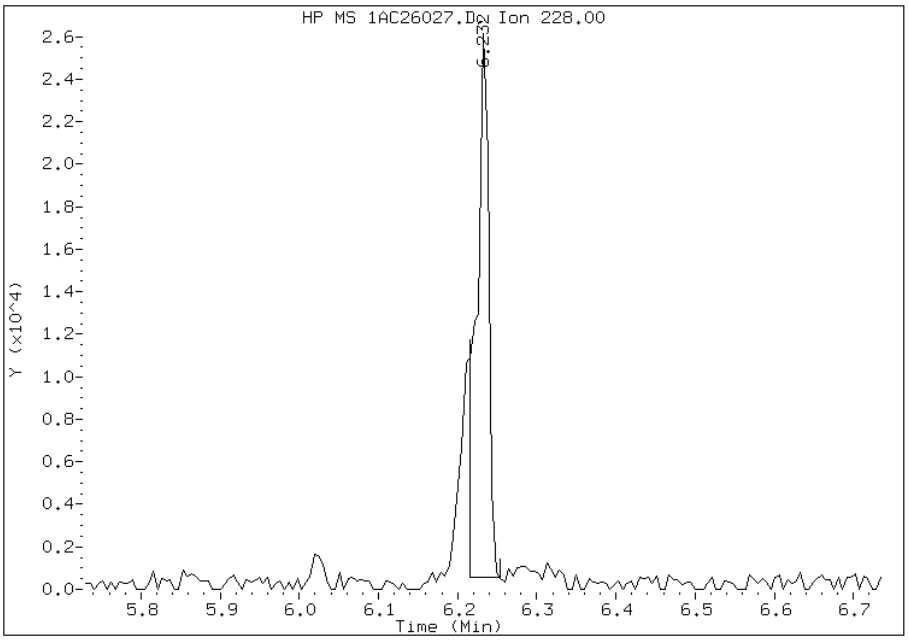
Manual Integration Results

RT: 6.23

Response: 27137

Amount: 2

Conc: 175



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC26027.D
Inj. Date and Time: 26-MAR-2013 19:24
Instrument ID: BSMA5973.i
Client ID: CV0292B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

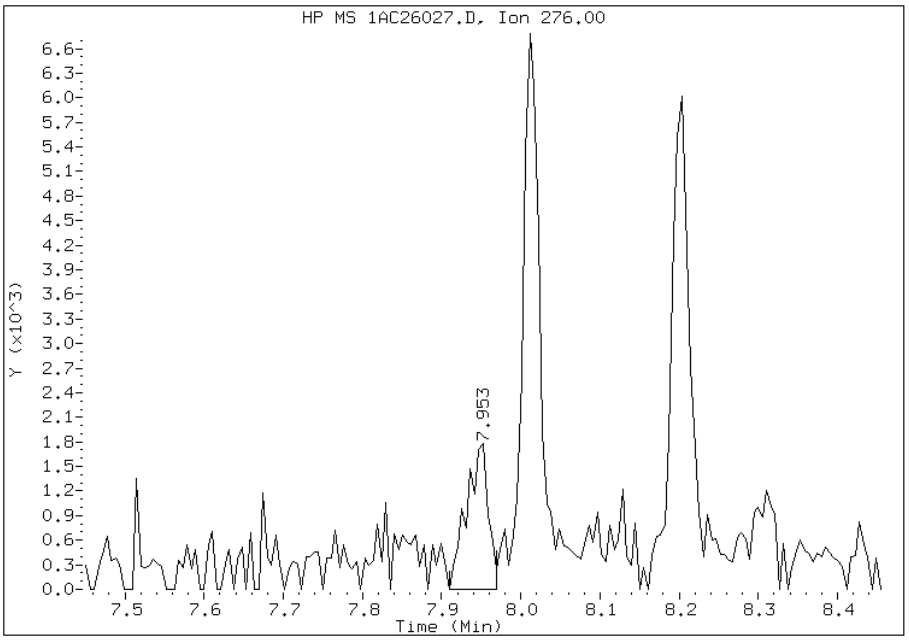
Processing Integration Results

RT: 7.95

Response: 3348

Amount: 0

Conc: 20



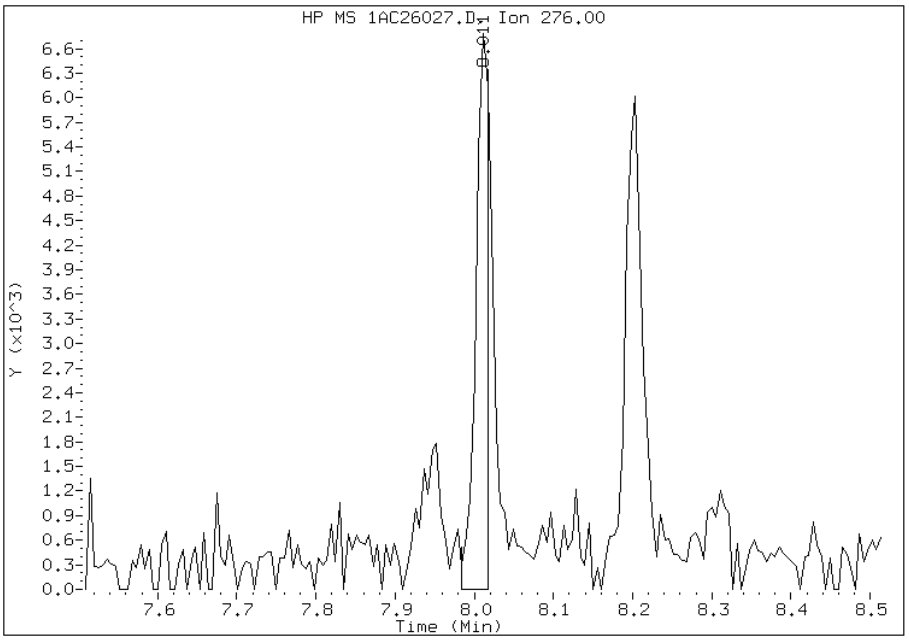
Manual Integration Results

RT: 8.01

Response: 7334

Amount: 0

Conc: 45



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0292C-CS-SP | Lab Sample ID: 680-88420-37

Matrix: Solid | Lab File ID: 1AC26028.D

Analysis Method: 8270C LL | Date Collected: 03/15/2013 08:50

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 15.04(g) | Date Analyzed: 03/26/2013 19:39

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

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

% Moisture: 27.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135850 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	55	U	55	6.8
120-12-7	Anthracene	15		12	5.8
56-55-3	Benzo[a]anthracene	74		11	5.3
50-32-8	Benzo[a]pyrene	33		14	7.1
205-99-2	Benzo[b]fluoranthene	160		17	8.4
191-24-2	Benzo[g,h,i]perylene	35		27	6.0
207-08-9	Benzo[k]fluoranthene	27		11	4.9
218-01-9	Chrysene	67		12	6.2
53-70-3	Dibenz(a,h)anthracene	24	J	27	5.6
206-44-0	Fluoranthene	83		27	5.5
86-73-7	Fluorene	27	U	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	26	J	27	9.7
90-12-0	1-Methylnaphthalene	34	J	55	6.0
91-57-6	2-Methylnaphthalene	120		55	9.7
91-20-3	Naphthalene	44	J	55	6.0
85-01-8	Phenanthrene	72		11	5.3
129-00-0	Pyrene	87		27	5.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26028.D
Lab Smp Id: 680-88420-A-37-A Client Smp ID: CV0292C-CS-SP
Inj Date : 26-MAR-2013 19:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88420-A-37-A
Misc Info : 680-88420-A-37-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	27.200	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.277	2.272	(1.000)	427587	40.0000	
* 6 Acenaphthene-d10	164	3.303	3.287	(1.000)	340576	40.0000	
* 10 Phenanthrene-d10	188	4.222	4.205	(1.000)	484787	40.0000	
$ 14 o-Terphenyl	230	4.494	4.478	(1.065)	43924	6.92403	632.3822
* 18 Chrysene-d12	240	6.214	6.193	(1.000)	343204	40.0000	(H)
* 23 Perylene-d12	264	7.315	7.272	(1.000)	442692	40.0000	
2 Naphthalene	128	2.288	2.282	(1.005)	4722	0.47800	43.6563
3 2-Methylnaphthalene	141	2.694	2.683	(1.183)	2555	1.30249	118.9585
4 1-Methylnaphthalene	142	2.747	2.736	(1.206)	2109	0.37127	33.9089
11 Phenanthrene	178	4.233	4.221	(1.003)	9621	0.78304	71.5158
12 Anthracene	178	4.265	4.253	(1.010)	1985	0.16662	15.2172
13 Carbazole	167	4.436	4.408	(1.051)	1187	0.11368	10.3821(Q)
15 Fluoranthene	202	5.082	5.065	(1.204)	11024	0.90767	82.8986
16 Pyrene	202	5.248	5.226	(0.844)	9381	0.95331	87.0672(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.214	6.177	(1.000)	6376	0.80900	73.8875
19 Chrysene	228	6.225	6.209	(1.002)	6564	0.73843	67.4420(H)
20 Benzo(b)fluoranthene	252	7.026	6.994	(0.961)	6698	1.75179	159.9932(M)
21 Benzo(k)fluoranthene	252	7.037	7.015	(0.962)	3569	0.29888	27.2972(MH)
22 Benzo(a)pyrene	252	7.256	7.224	(0.992)	3779	0.36375	33.2216
24 Indeno(1,2,3-cd)pyrene	276	8.004	7.972	(1.094)	2624	0.27992	25.5655(M)
25 Dibenzo(a,h)anthracene	278	8.009	7.982	(1.095)	2419	0.26037	23.7800(M)
26 Benzo(g,h,i)perylene	276	8.196	8.148	(1.120)	3577	0.37908	34.6220

QC Flag Legend

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

Data File: 1AC26028.D

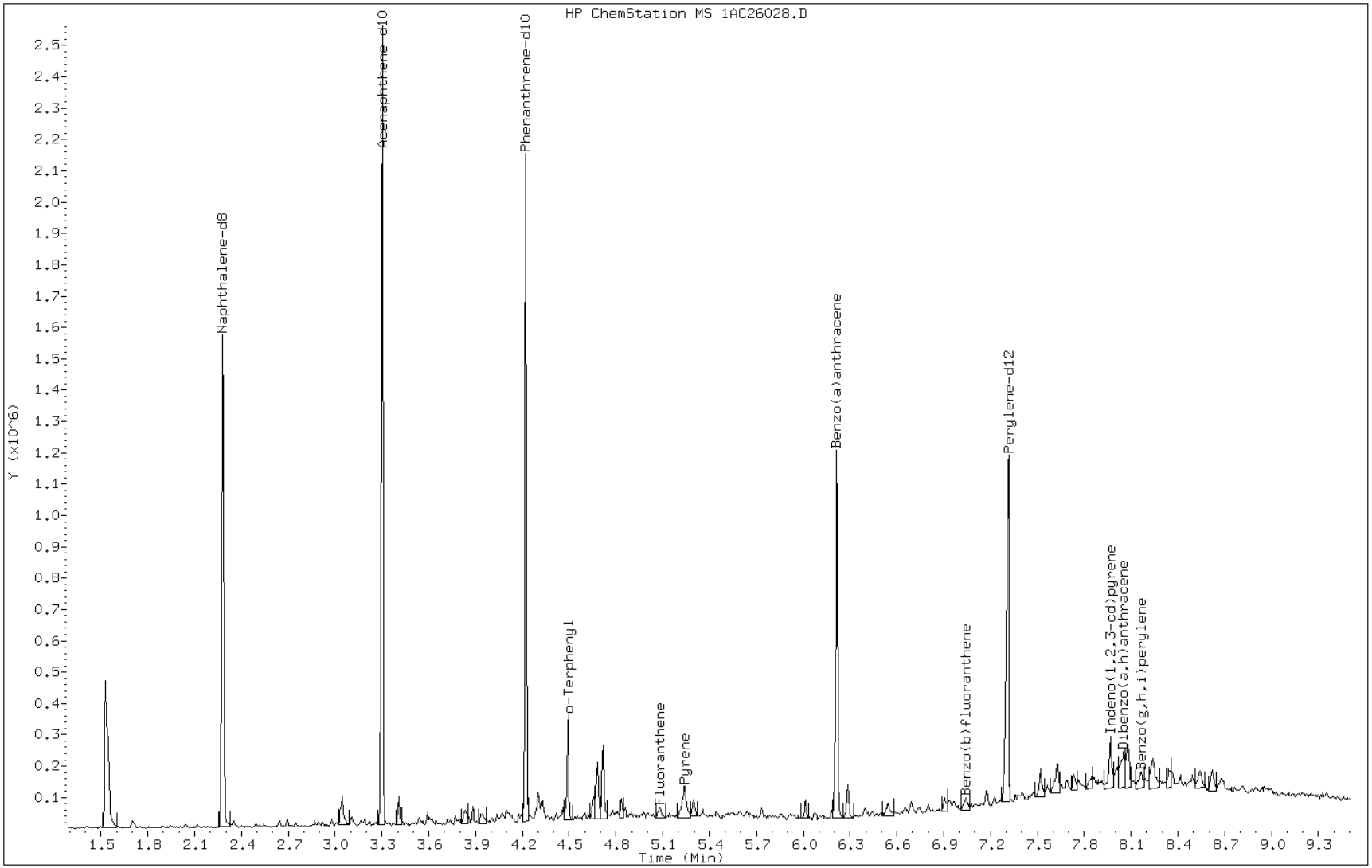
Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A

Operator: SCC



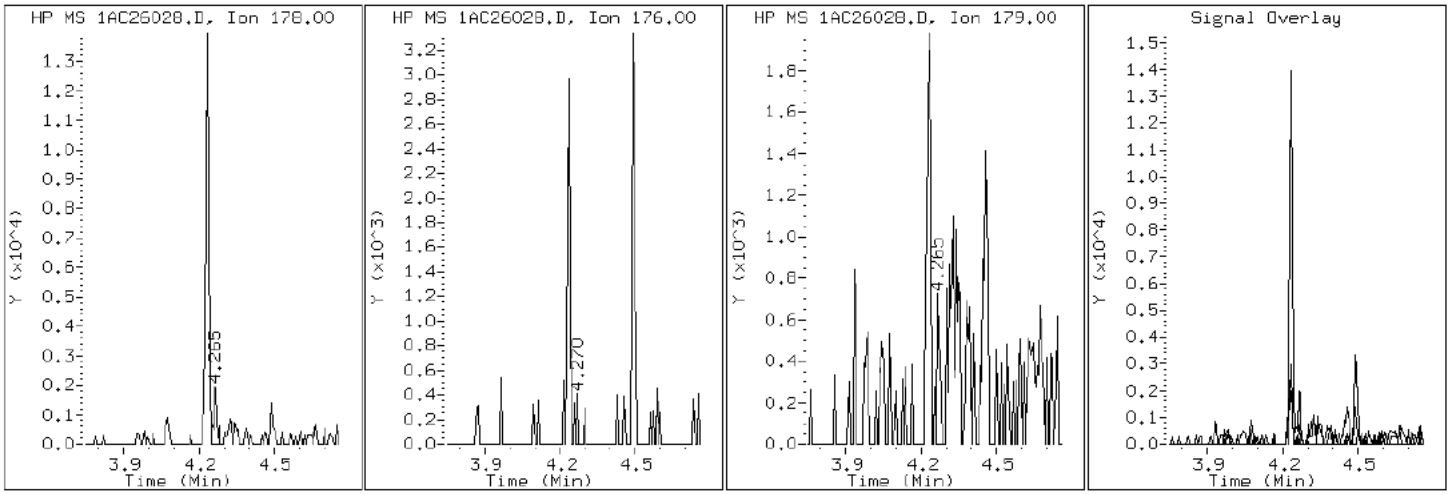
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

12 Anthracene



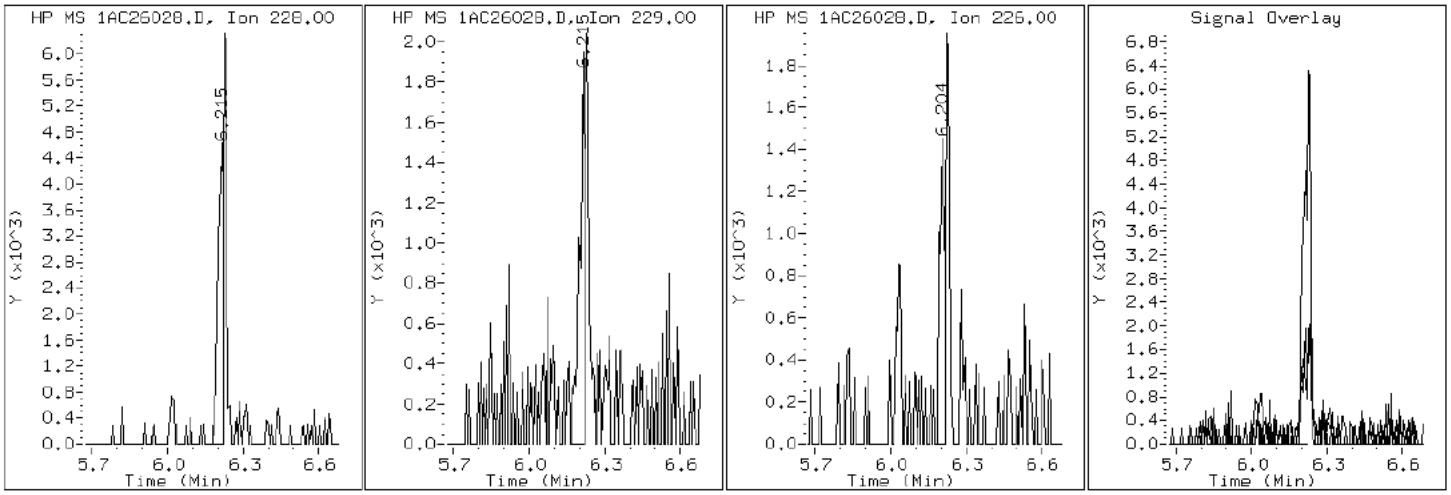
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

17 Benzo(a)anthracene



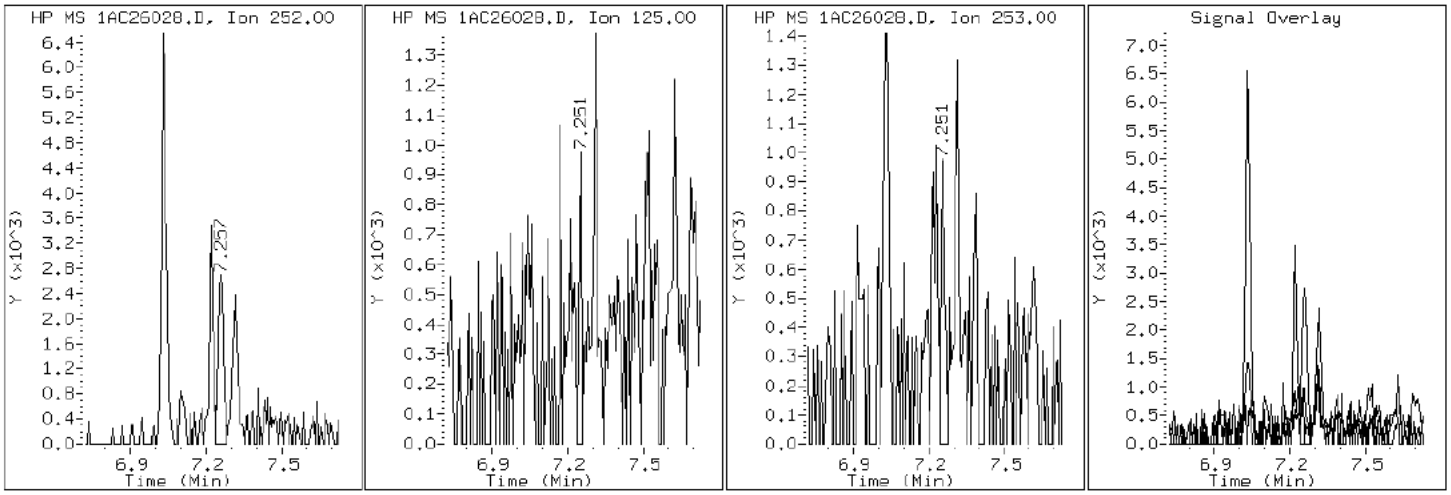
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

22 Benzo(a)pyrene



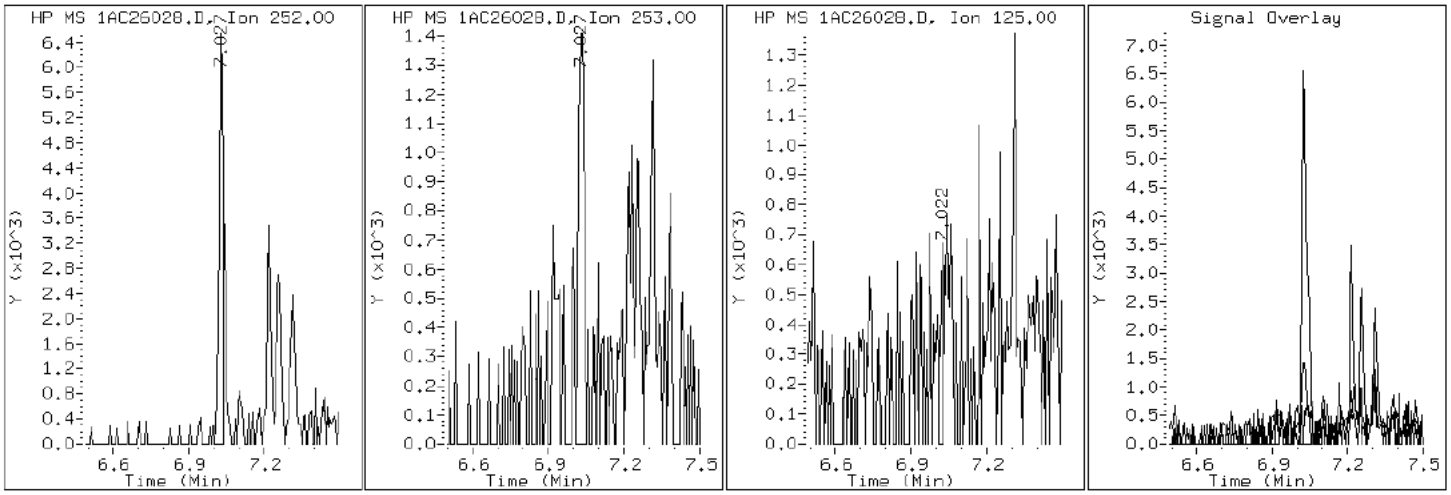
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

20 Benzo(b)fluoranthene



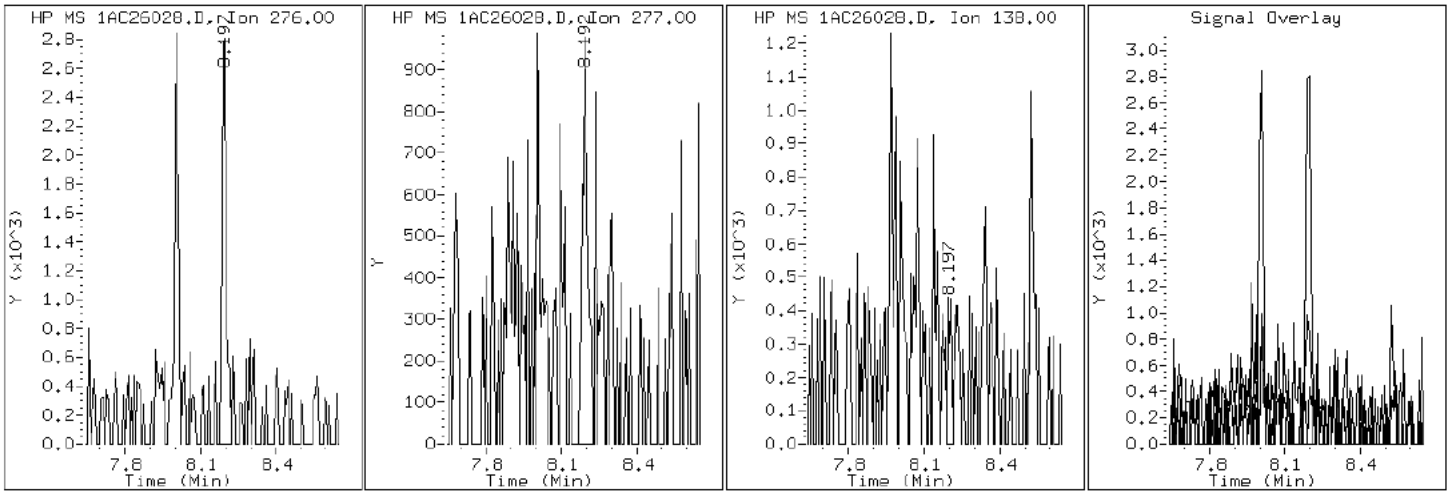
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

26 Benzo(g,h,i)perylene



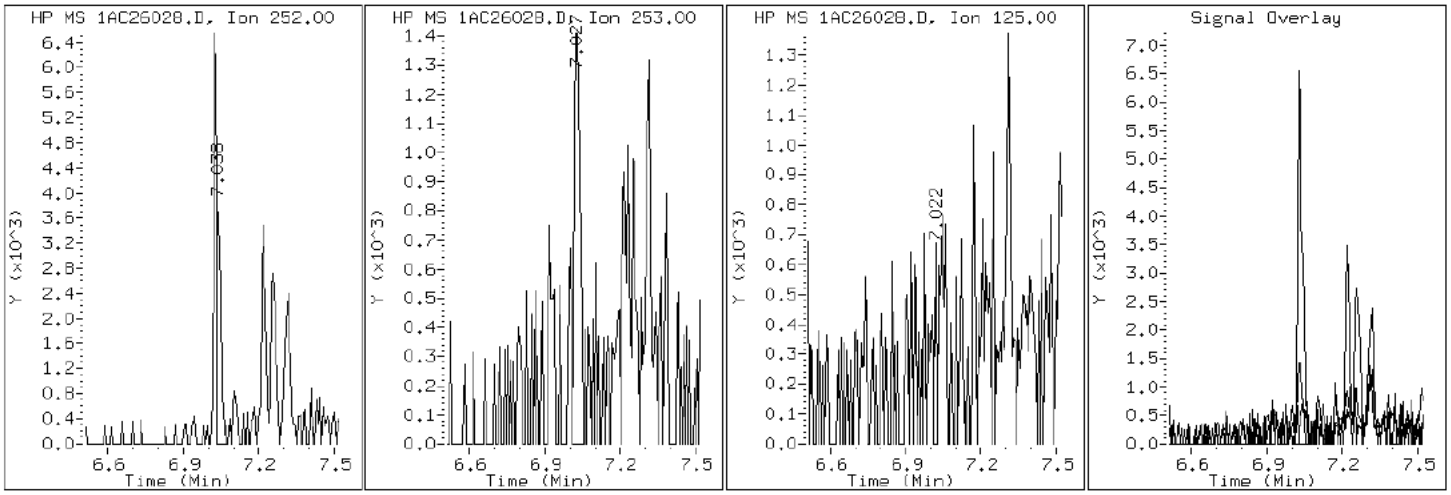
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

21 Benzo(k)fluoranthene



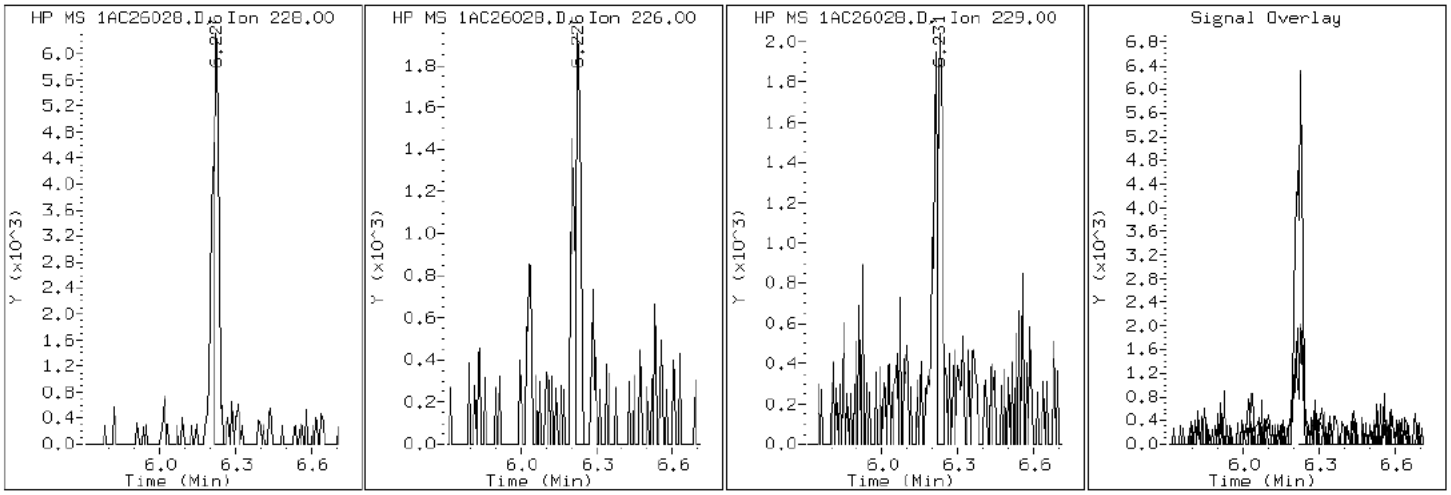
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

19 Chrysene



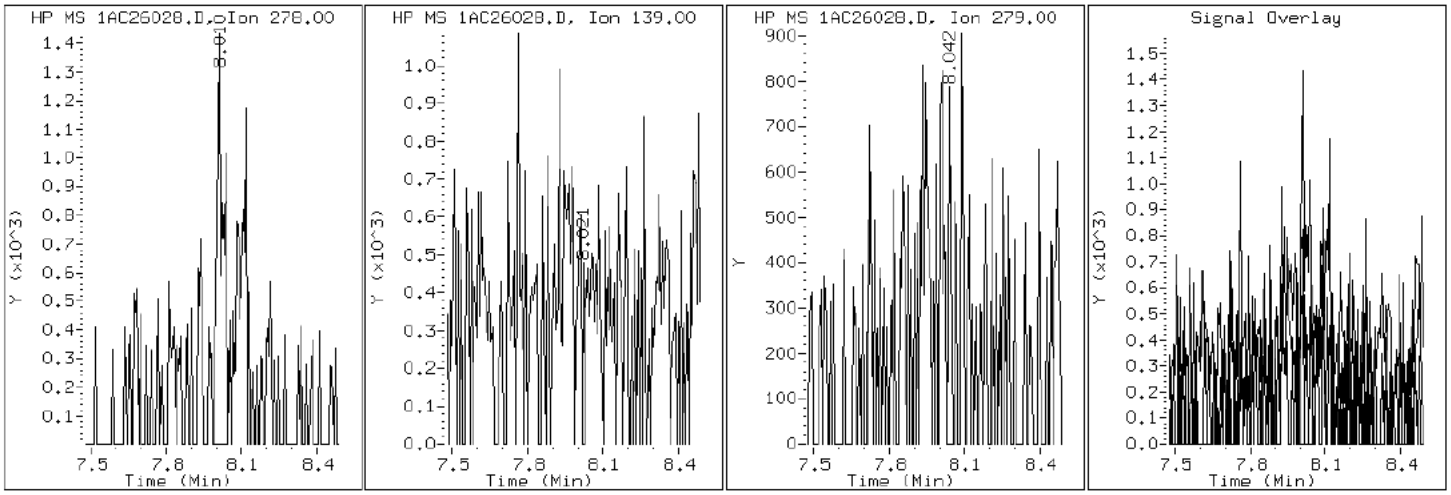
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

25 Dibenzo(a,h)anthracene



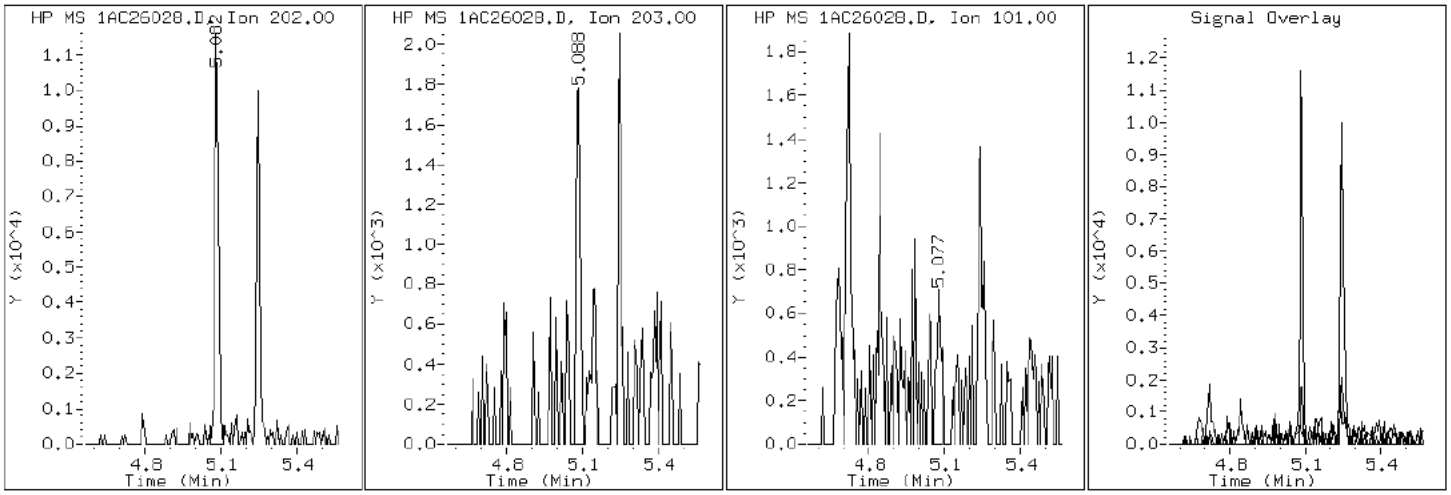
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

15 Fluoranthene



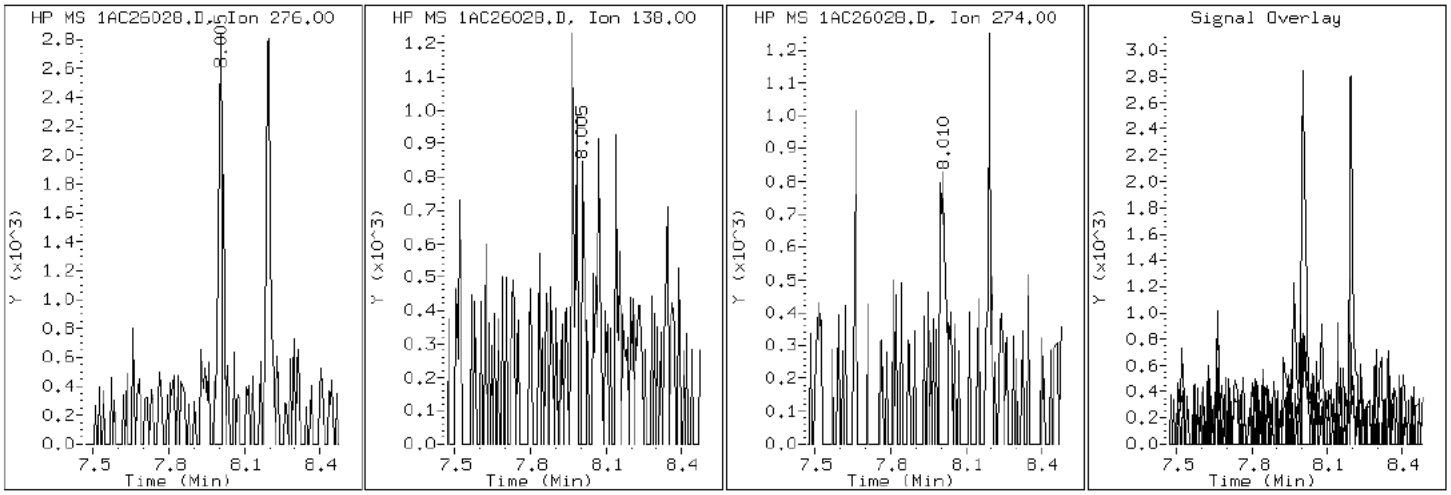
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

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



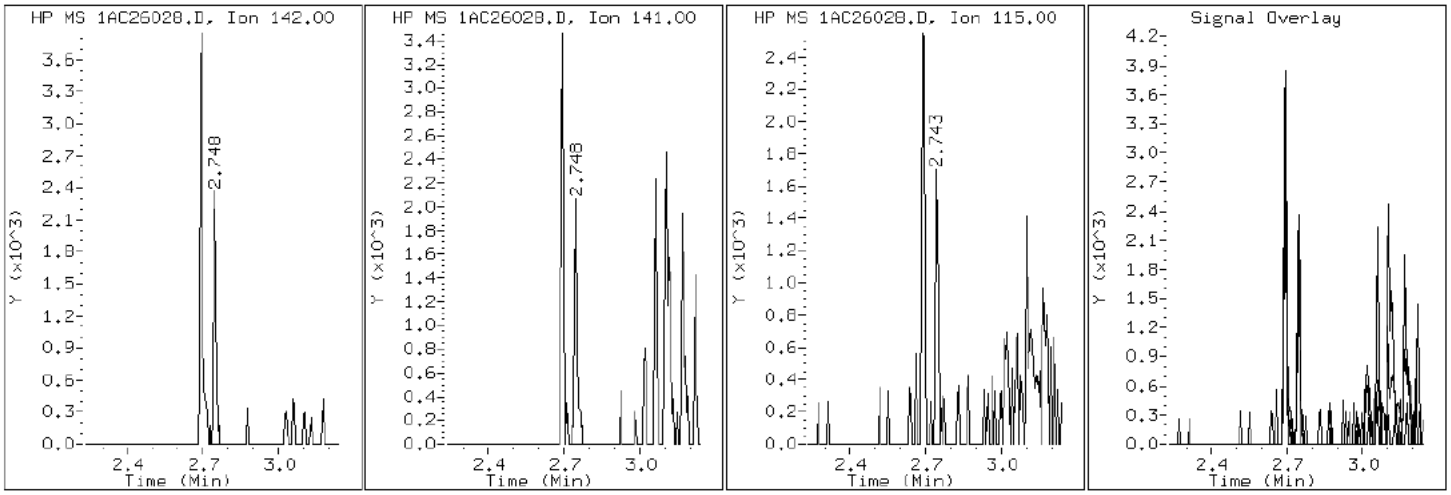
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

4 1-Methylnaphthalene



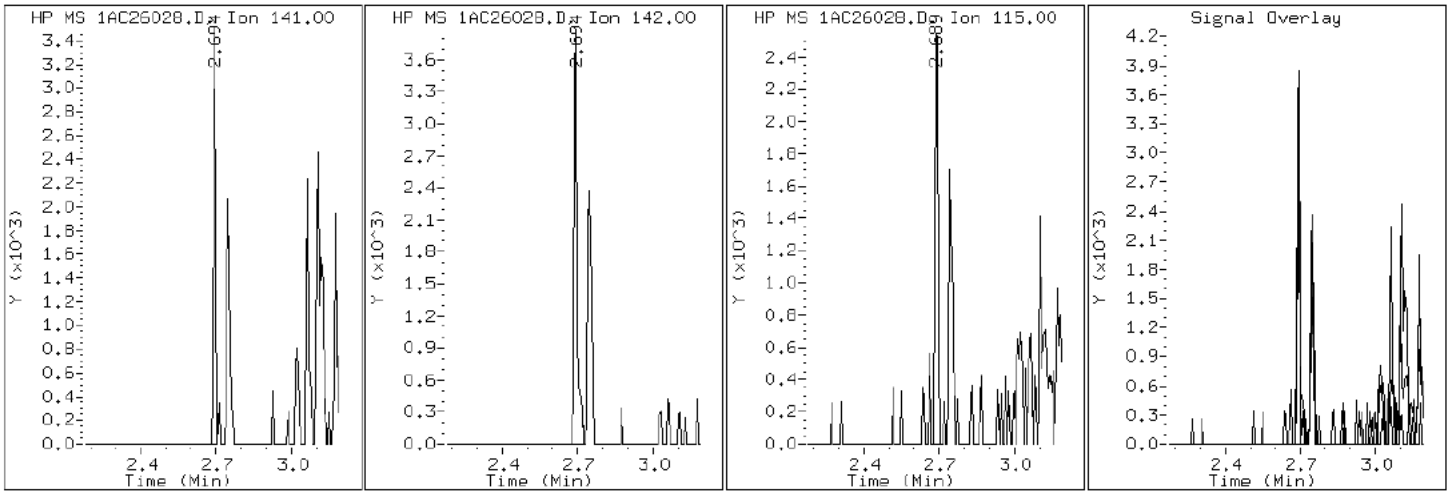
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

3 2-Methylnaphthalene



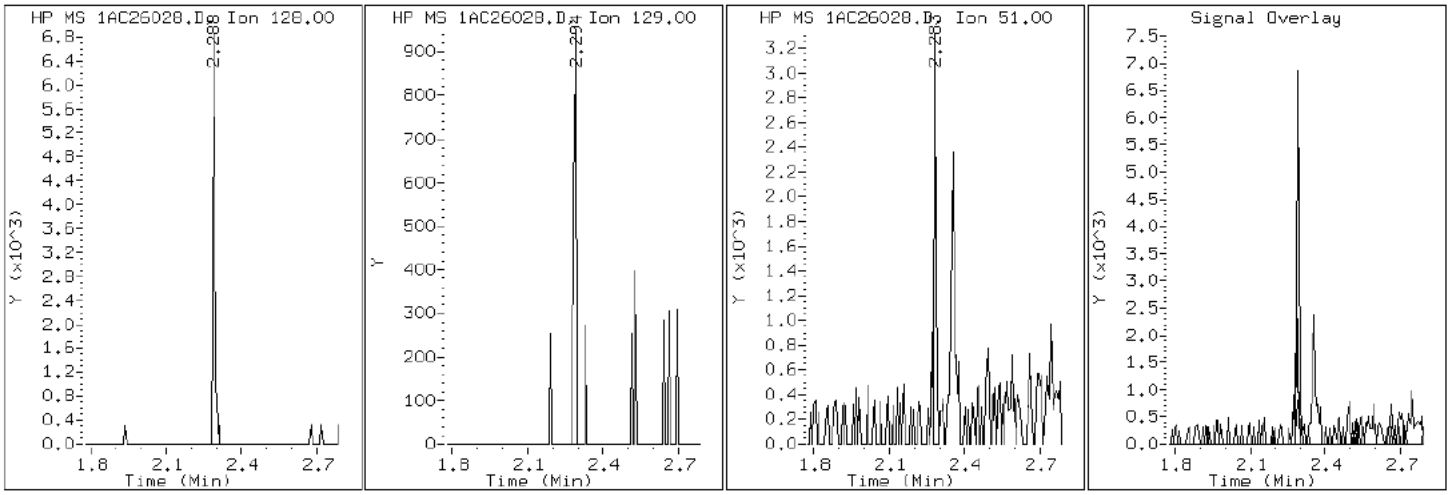
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

2 Naphthalene



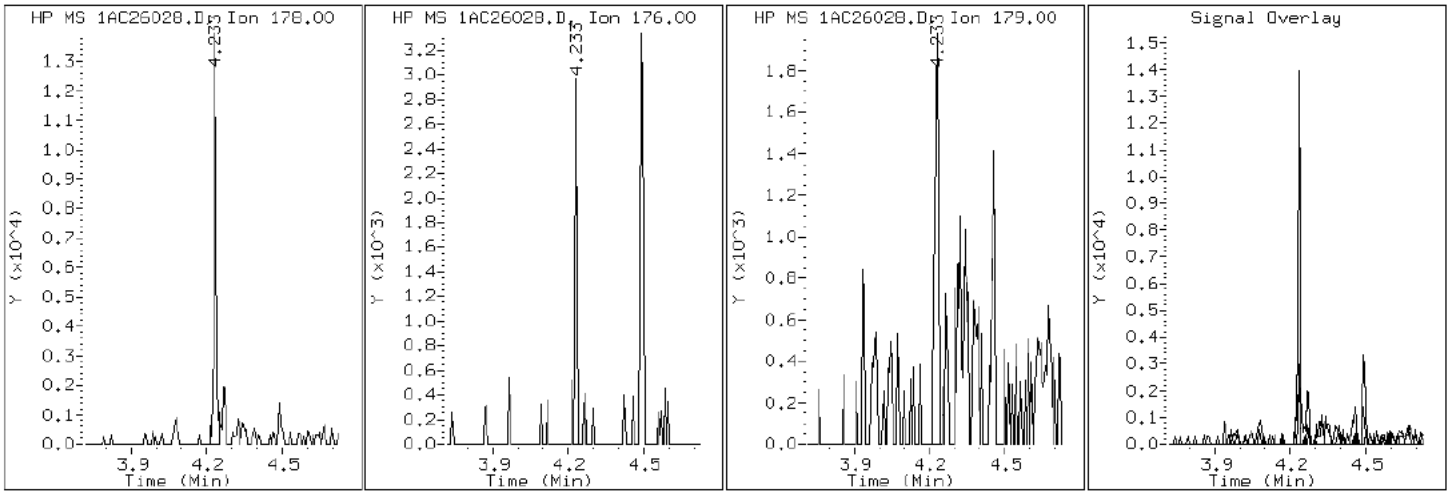
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

11 Phenanthrene



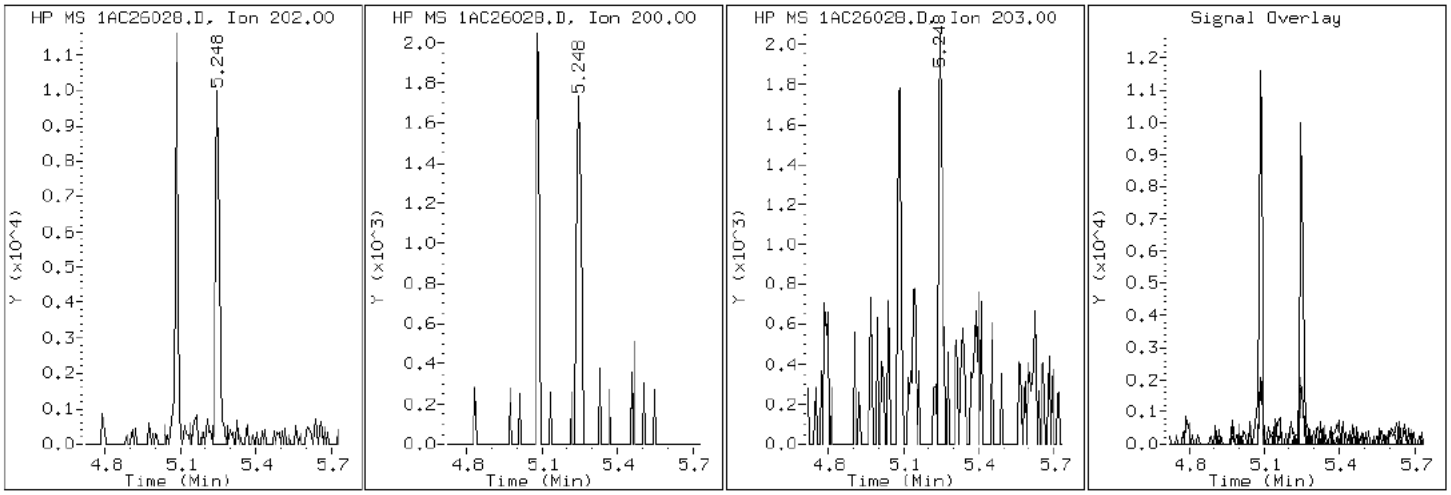
Data File: 1AC26028.D

Date: 26-MAR-2013 19:39

Client ID: CV0292C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-88420-A-37-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AC26028.D
Inj. Date and Time: 26-MAR-2013 19:39
Instrument ID: BSMA5973.i
Client ID: CV0292C-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/28/2013

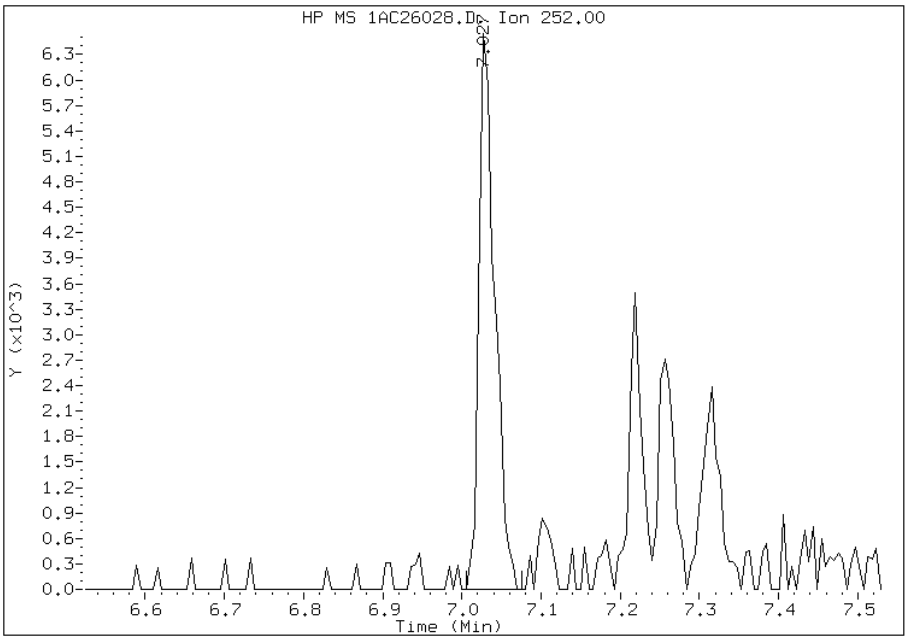
Processing Integration Results

RT: 7.03

Response: 8995

Amount: 2

Conc: 177



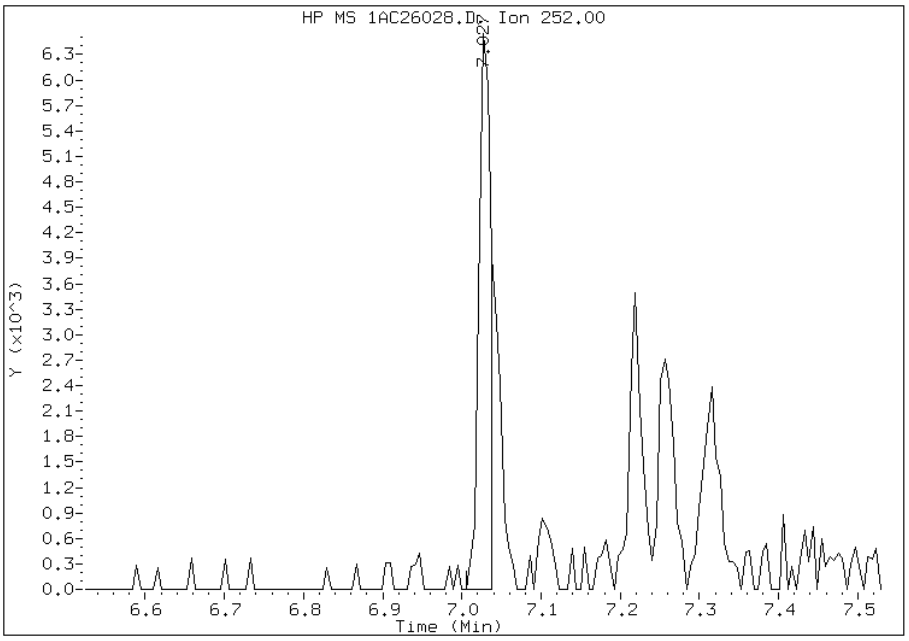
Manual Integration Results

RT: 7.03

Response: 6698

Amount: 2

Conc: 160



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AC26028.D
Inj. Date and Time: 26-MAR-2013 19:39
Instrument ID: BSMA5973.i
Client ID: CV0292C-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/28/2013

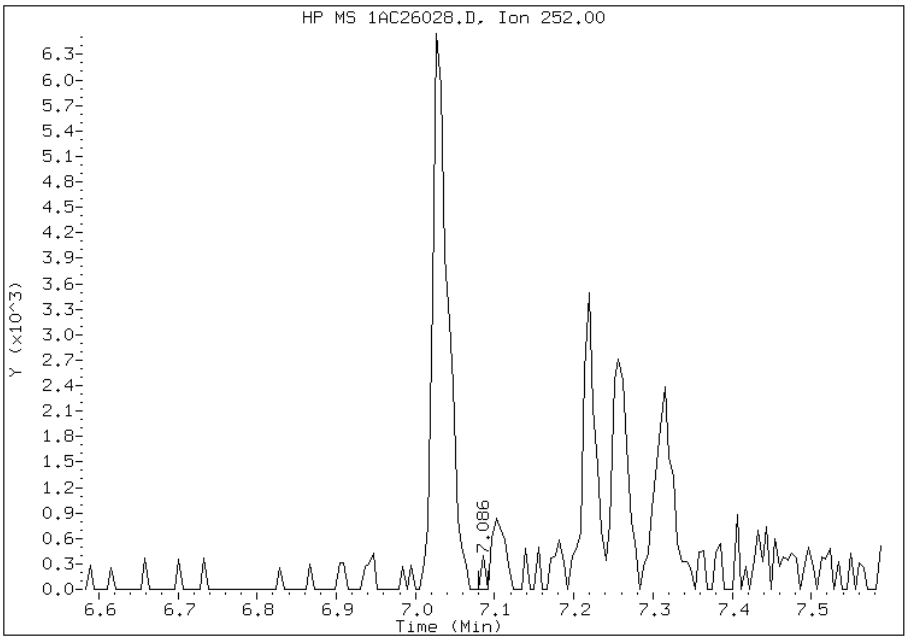
Processing Integration Results

RT: 7.09

Response: 127

Amount: 0

Conc: 1



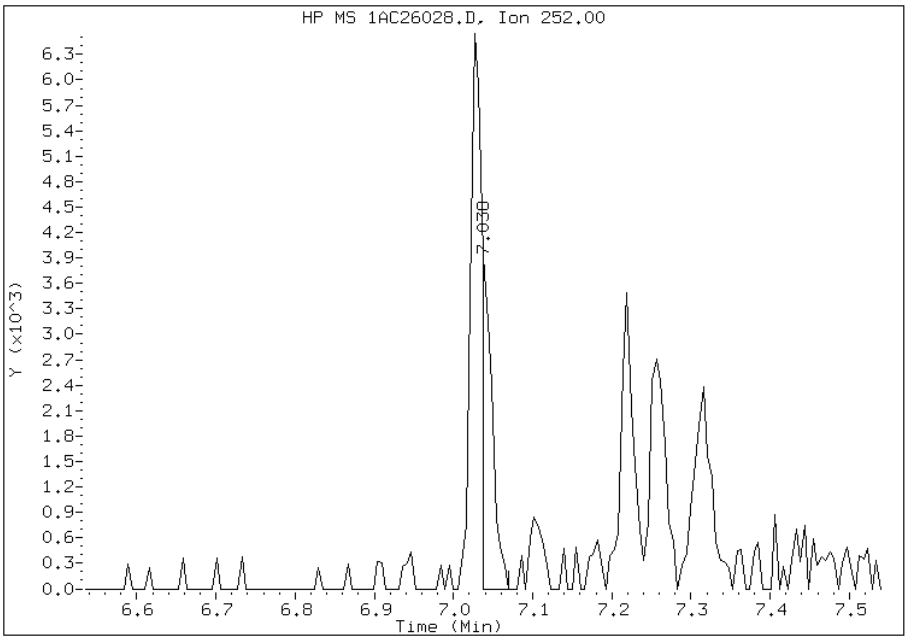
Manual Integration Results

RT: 7.04

Response: 3569

Amount: 0

Conc: 27



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC26028.D
Inj. Date and Time: 26-MAR-2013 19:39
Instrument ID: BSMA5973.i
Client ID: CV0292C-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/28/2013

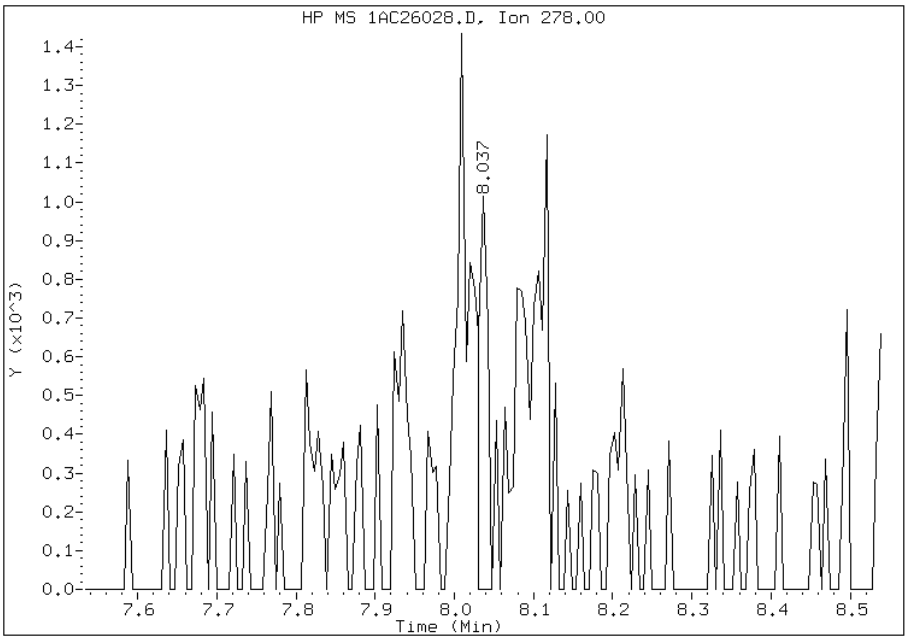
Processing Integration Results

RT: 8.04

Response: 755

Amount: 0

Conc: 7



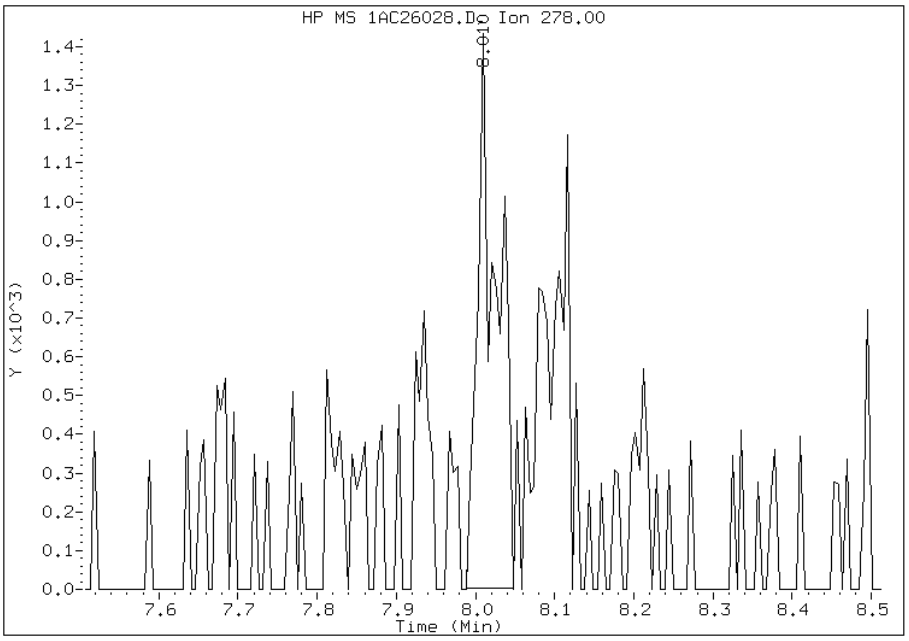
Manual Integration Results

RT: 8.01

Response: 2419

Amount: 0

Conc: 24



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC26028.D
Inj. Date and Time: 26-MAR-2013 19:39
Instrument ID: BSMA5973.i
Client ID: CV0292C-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

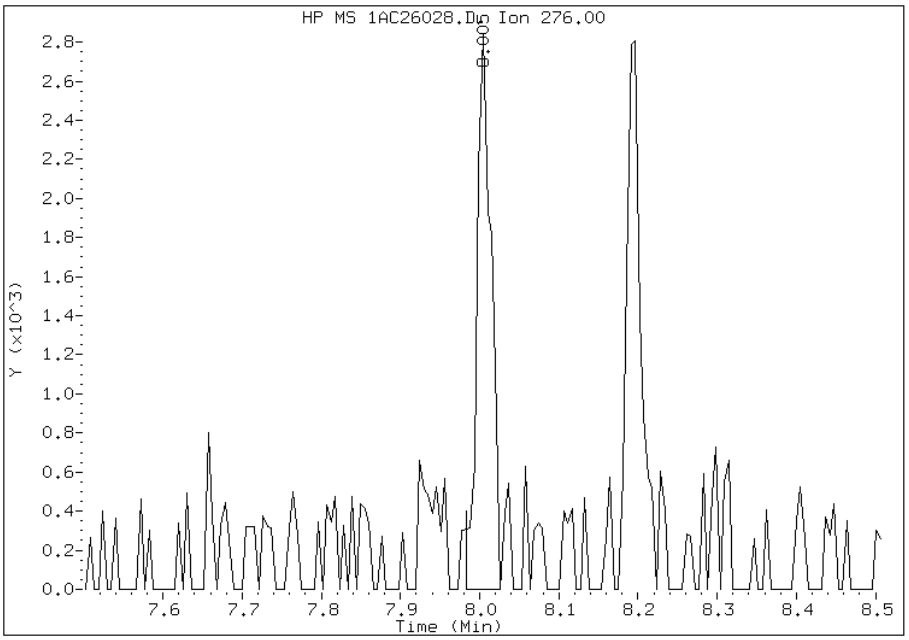
Processing Integration Results

RT: 8.00

Response: 3492

Amount: 0

Conc: 34



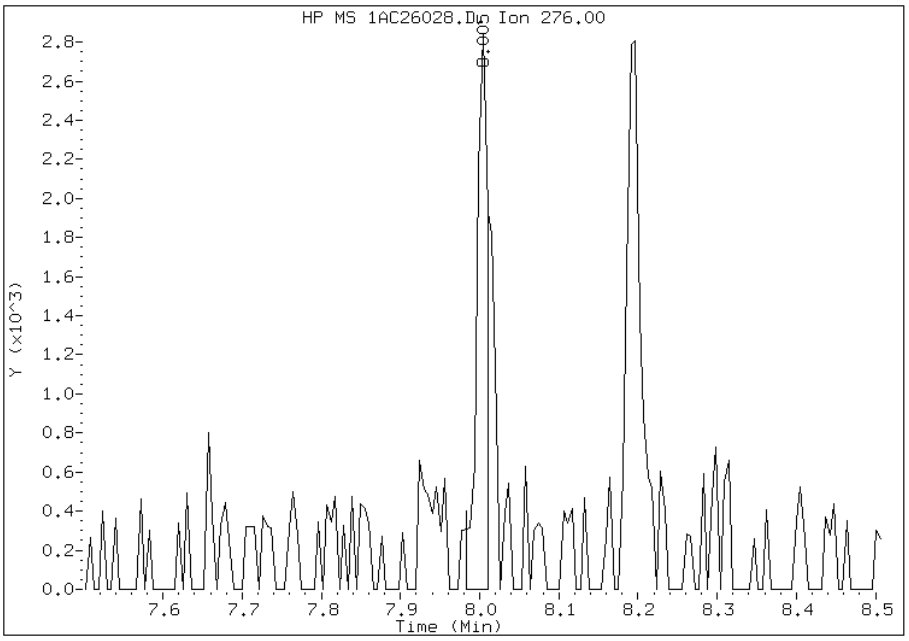
Manual Integration Results

RT: 8.00

Response: 2624

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:36
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2 Analy Batch No.: 135466

SDG No.: 68088420-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-135466/4	1AC15004.D
Level 2	IC 660-135466/5	1AC15005.D
Level 3	IC 660-135466/6	1AC15006.D
Level 4	IC 660-135466/7	1AC15007.D
Level 5	ICIS 660-135466/3	1AC15003.D
Level 6	IC 660-135466/8	1AC15008.D
Level 7	IC 660-135466/9	1AC15009.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	0.9182 0.9843	0.8682 1.0304	0.8414	0.9130	0.9134	Ave		0.9241			0.0000	7.0		15.0			
2-Methylnaphthalene	0.3173 0.5626	0.3880 0.5601	0.4398	0.4970	0.4939	Lin	0.0220	0.5669			0.0000				0.9977		0.9900
1-Methylnaphthalene	0.4777 0.5845	0.5531 0.6040	0.4506	0.5167	0.5332	Ave		0.5314			0.0000	10.4		15.0			
Acenaphthylene	1.0811 1.6297	1.1761 1.8722	1.3170	1.5059	1.4858	Qua	0.0041	0.7073	-0.075		0.0000				0.9997		0.9900
Acenaphthene	0.5482 0.9648	0.7151 1.1119	0.7239	0.7842	0.8623	Qua	0.0105	1.2107	-0.231		0.0000				0.9995		0.9900
Fluorene	0.9196 1.1621	0.7108 1.4041	0.9794	0.9875	1.0362	Qua	0.0051	1.0243	-0.180		0.0000				0.9997		0.9900
Phenanthrene	0.8931 1.0963	0.9370 1.1892	0.9513	1.0358	0.9939	Ave		1.0138			0.0000	10.1		15.0			
Anthracene	0.7882 1.0781	0.9144 1.1902	0.9143	1.0125	0.9832	Ave		0.9830			0.0000	13.1		15.0			
Carbazole	0.9171 0.8644	0.8482 1.0183	0.7772	0.8200	0.7858	Ave		0.8616			0.0000	9.8		15.0			
Fluoranthene	0.8759 1.0892	0.9263 1.2393	0.9139	1.0041	0.9662	Ave		1.0021			0.0000	12.5		15.0			
Pyrene	1.1506 1.2084	1.1188 1.2358	1.0383	1.1546	1.1218	Ave		1.1469			0.0000	5.6		15.0			
Benzo[a]anthracene	2.3322 1.1494	1.0618 1.1597	1.0397	1.1448	1.1388	Lin	0.0042	1.1599			0.0000				0.9998		0.9900
Chrysene	0.9519 1.0963	1.1293 1.0909	0.9784	1.0416	0.9636	Ave		1.0360			0.0000	6.9		15.0			
Benzo[b]fluoranthene	0.5952 0.9716	0.9206 1.1134	0.8928	0.9147	0.9663	Lin	0.0301	1.1022			0.0000				0.9937		0.9900

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.: 680-88420-2 Analy Batch No.: 135466

SDG No.: 68088420-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

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	1.2698 1.1415	0.8332 1.1801	0.9701	1.1224	1.0355	Ave		1.0790			0.0000	13.5		15.0			
Benzo[a]pyrene	0.9834 0.9683	0.8745 1.0399	0.8429	0.9297	0.9323	Ave		0.9387			0.0000	7.1		15.0			
Indeno[1,2,3-cd]pyrene	0.7699 0.8966	0.7718 1.0634	0.7357	0.8848	0.8069	Ave		0.8470			0.0000	13.3		15.0			
Dibenz(a,h)anthracene	0.7891 0.8904	0.7149 1.0350	0.7901	0.8091	0.8477	Ave		0.8395			0.0000	12.1		15.0			
Benzo[g,h,i]perylene	0.9244 0.8344	0.8719 0.9257	0.7802	0.8324	0.7992	Ave		0.8526			0.0000	6.7		15.0			
o-Terphenyl	0.6407 0.6114	0.4486 0.7113	0.5134	0.5554	0.5318	Qua	0.0019	1.9448	-0.611		0.0000				0.9992		0.9900

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.: 680-88420-2 Analy Batch No.: 135466

SDG No.: 68088420-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-135466/4	1AC15004.D
Level 2	IC 660-135466/5	1AC15005.D
Level 3	IC 660-135466/6	1AC15006.D
Level 4	IC 660-135466/7	1AC15007.D
Level 5	ICIS 660-135466/3	1AC15003.D
Level 6	IC 660-135466/8	1AC15008.D
Level 7	IC 660-135466/9	1AC15009.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	2130 303622	9402 536733	48636	91487	212955	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Lin	736 173551	4202 291739	25420	49806	115161	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1108 180305	5990 314615	26047	51777	124303	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	1761 319635	9023 568020	45490	91795	222508	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Qua	893 189235	5486 337349	25006	47803	129142	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Qua	1498 227926	5453 425998	33830	60194	155177	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	1974 303905	9354 493056	49383	93111	231718	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	1742 298885	9128 493502	47464	91019	229236	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2027 239621	8467 422232	40347	73717	183202	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	1936 301939	9247 513840	47441	90262	225265	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	2259 323353	9768 535158	49430	97774	238669	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin	4579 307563	9270 502221	49496	96948	242288	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	1869 293362	9859 472426	46576	88211	205028	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Lin	1363 285512	9078 523197	49338	86931	204244	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	2908 335436	8216 554548	53608	106676	218874	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.: 680-88420-2 Analy Batch No.: 135466

SDG No.: 68088420-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

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	2252 284542	8623 488657	46577	88362	197061	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	1763 263461	7610 499702	40658	84090	170555	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	1807 261651	7049 486347	43660	76903	179169	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	2117 245198	8597 434983	43115	79114	168914	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Qua	1416 169501	4478 294944	26653	49925	123980	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15003.D
Lab Smp Id: ICIS-1512372
Inj Date : 15-MAR-2013 12:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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	2.303	2.303	(1.000)	466294	40.0000	
* 6 Acenaphthene-d10	164	3.323	3.323	(1.000)	299519	40.0000	
* 10 Phenanthrene-d10	188	4.247	4.247	(1.000)	466296	40.0000	
$ 14 o-Terphenyl	230	4.525	4.525	(1.065)	123980	20.0000	18.5533
* 18 Chrysene-d12	240	6.245	6.245	(1.000)	425528	40.0000	
* 23 Perylene-d12	264	7.330	7.330	(1.000)	422731	40.0000	
2 Naphthalene	128	2.313	2.313	(1.005)	212955	20.0000	19.7675
3 2-Methylnaphthalene	141	2.714	2.714	(1.179)	115161	20.0000	21.2202
4 1-Methylnaphthalene	142	2.773	2.773	(1.204)	124303	20.0000	20.0661
5 Acenaphthylene	152	3.238	3.238	(0.974)	222508	20.0000	20.6609
7 Acenaphthene	154	3.344	3.344	(1.006)	129142	20.0000	21.1411
9 Fluorene	166	3.649	3.649	(1.098)	155177	20.0000	20.1489
11 Phenanthrene	178	4.263	4.263	(1.004)	231718	20.0000	19.6069
12 Anthracene	178	4.295	4.295	(1.011)	229236	20.0000	20.0044
13 Carbazole	167	4.456	4.456	(1.049)	183202	20.0000	18.2403
15 Fluoranthene	202	5.113	5.113	(1.204)	225265	20.0000	19.2828
16 Pyrene	202	5.278	5.278	(0.845)	238669	20.0000	19.5616
17 Benzo(a)anthracene	228	6.235	6.235	(0.998)	242288	20.0000	19.7327
19 Chrysene	228	6.261	6.261	(1.003)	205028	20.0000	18.6028
20 Benzo(b)fluoranthene	252	7.052	7.052	(0.962)	204244	20.0000	21.2219
21 Benzo(k)fluoranthene	252	7.073	7.073	(0.965)	218874	20.0000	19.1947
22 Benzo(a)pyrene	252	7.282	7.282	(0.993)	197061	20.0000	19.8637
24 Indeno(1,2,3-cd)pyrene	276	8.035	8.035	(1.096)	170555	20.0000	19.0533(M)
25 Dibenzo(a,h)anthracene	278	8.045	8.045	(1.098)	179169	20.0000	20.1955
26 Benzo(g,h,i)perylene	276	8.222	8.222	(1.122)	168914	20.0000	18.7463

QC Flag Legend

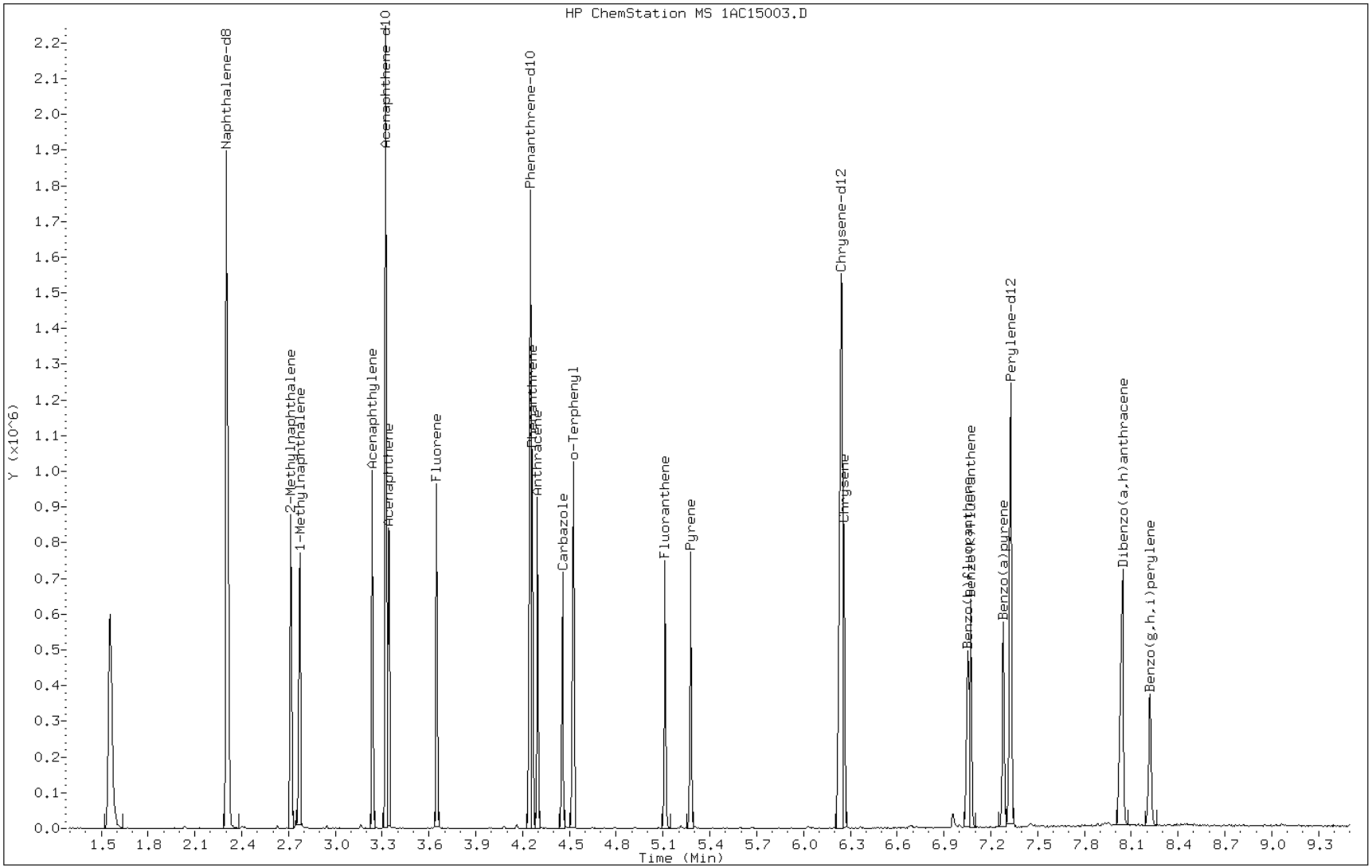
M - Compound response manually integrated.

Data File: 1AC15003.D

Date: 15-MAR-2013 12:54

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1AC15003.D
Inj. Date and Time: 15-MAR-2013 12:54
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

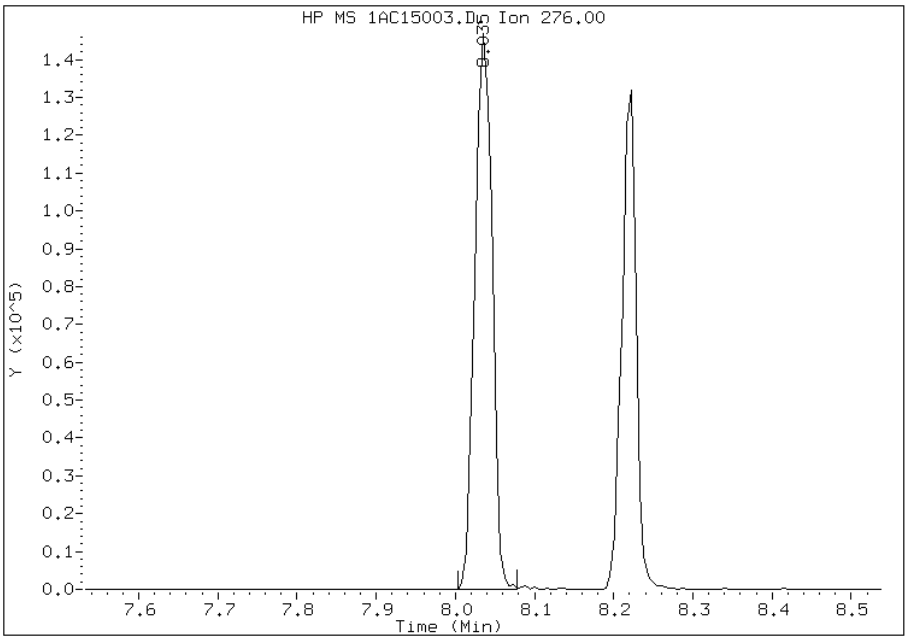
Processing Integration Results

RT: 8.04

Response: 220748

Amount: 25

Conc: 25



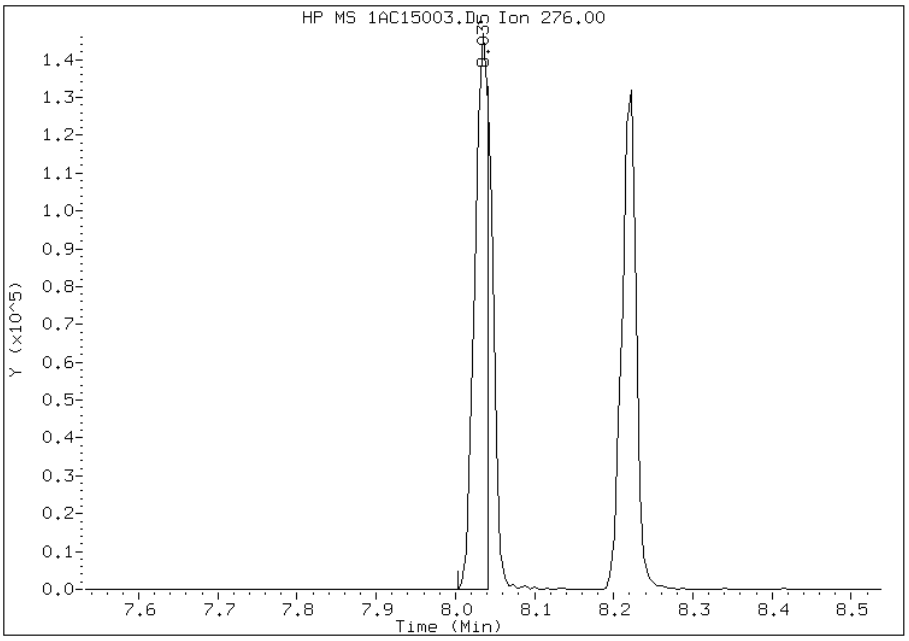
Manual Integration Results

RT: 8.04

Response: 170555

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:45
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15004.D
Lab Smp Id: IC-1512358
Inj Date : 15-MAR-2013 13:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
Cal Date : 15-MAR-2013 12:54 Cal File: 1AC15003.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	2.306	2.303	(1.000)	463929	40.0000	
* 6 Acenaphthene-d10	164	3.321	3.323	(1.000)	325790	40.0000	
* 10 Phenanthrene-d10	188	4.245	4.247	(1.000)	442045	40.0000	
$ 14 o-Terphenyl	230	4.517	4.525	(1.064)	1416	0.20000	0.2235
* 18 Chrysene-d12	240	6.243	6.245	(1.000)	392679	40.0000	
* 23 Perylene-d12	264	7.327	7.330	(1.000)	458007	40.0000	
2 Naphthalene	128	2.311	2.313	(1.002)	2130	0.20000	0.1987
3 2-Methylnaphthalene	141	2.717	2.714	(1.178)	736	0.20000	0.1363(Q)
4 1-Methylnaphthalene	142	2.770	2.773	(1.202)	1108	0.20000	0.1797
5 Acenaphthylene	152	3.235	3.238	(0.974)	1761	0.20000	0.1503
7 Acenaphthene	154	3.337	3.344	(1.005)	893	0.20000	0.1344
9 Fluorene	166	3.646	3.649	(1.098)	1498	0.20000	0.1788(T)
11 Phenanthrene	178	4.261	4.263	(1.004)	1974	0.20000	0.1761
12 Anthracene	178	4.298	4.295	(1.013)	1742	0.20000	0.1603
13 Carbazole	167	4.453	4.456	(1.049)	2027	0.20000	0.2128(T)
15 Fluoranthene	202	5.110	5.113	(1.204)	1936	0.20000	0.1748
16 Pyrene	202	5.276	5.278	(0.845)	2259	0.20000	0.2006
17 Benzo(a)anthracene	228	6.237	6.235	(0.999)	4579	0.20000	0.4041
19 Chrysene	228	6.253	6.261	(1.002)	1869	0.20000	0.1837
20 Benzo(b)fluoranthene	252	7.049	7.052	(0.962)	1363	0.20000	0.1307
21 Benzo(k)fluoranthene	252	7.065	7.073	(0.964)	2908	0.20000	0.2353
22 Benzo(a)pyrene	252	7.274	7.282	(0.993)	2252	0.20000	0.2095
24 Indeno(1,2,3-cd)pyrene	276	8.027	8.035	(1.096)	1763	0.20000	0.1817(M)
25 Dibenzo(a,h)anthracene	278	8.032	8.045	(1.096)	1807	0.20000	0.1879
26 Benzo(g,h,i)perylene	276	8.214	8.222	(1.121)	2117	0.20000	0.2168

QC Flag Legend

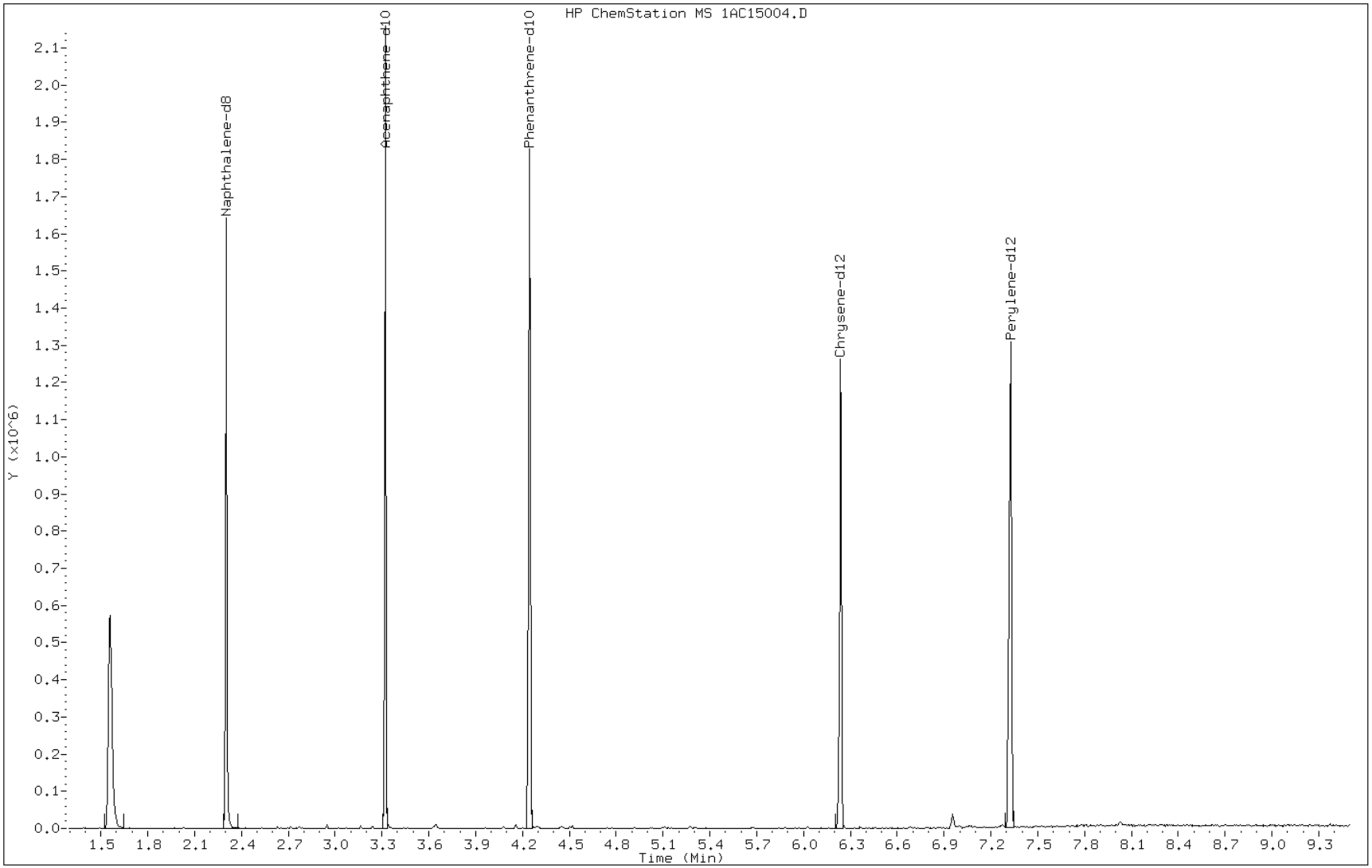
T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AC15004.D

Date: 15-MAR-2013 13:09

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1AC15004.D
Inj. Date and Time: 15-MAR-2013 13:09
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

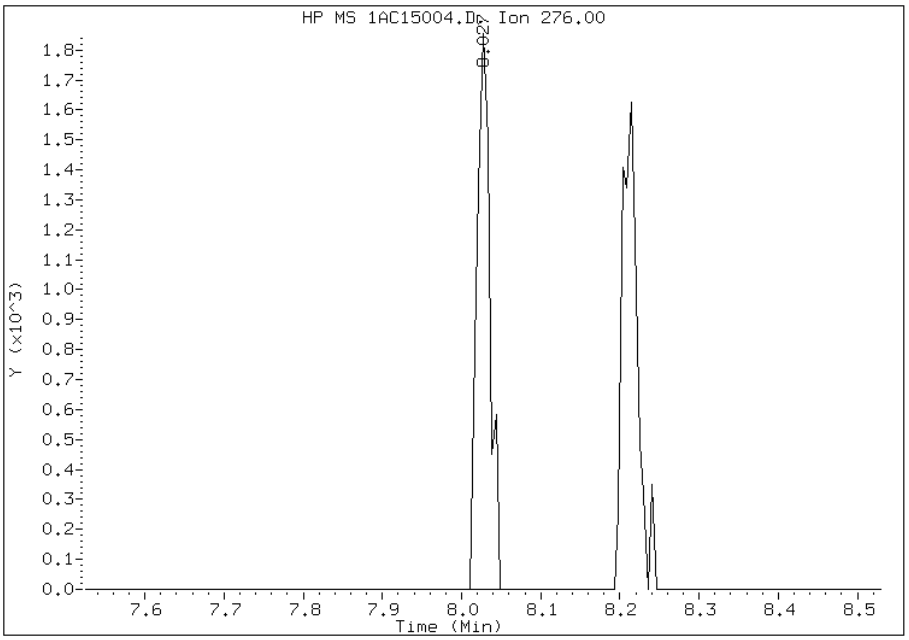
Processing Integration Results

RT: 8.03

Response: 2094

Amount: 0

Conc: 0



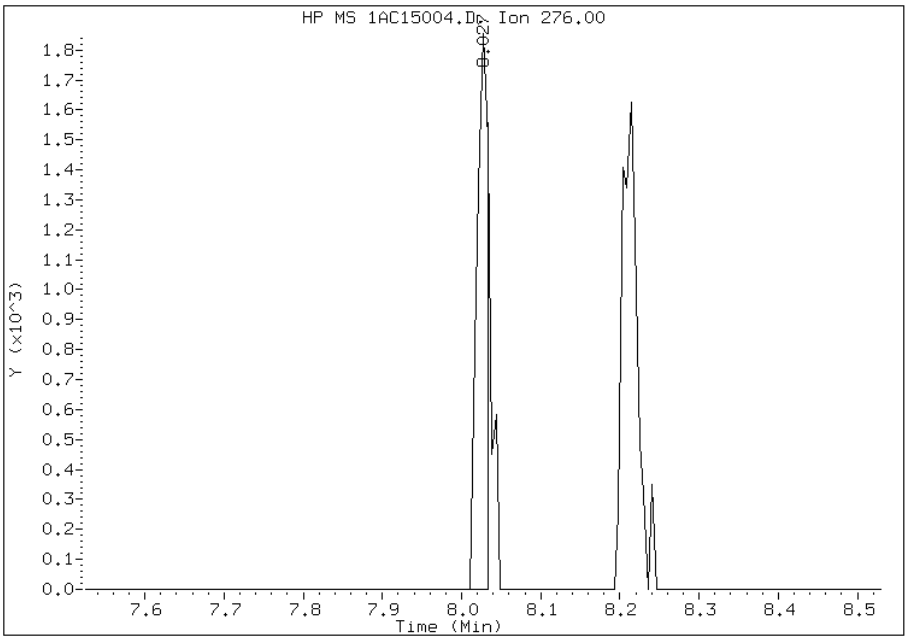
Manual Integration Results

RT: 8.03

Response: 1763

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:47
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15005.D
Lab Smp Id: IC-1512359
Inj Date : 15-MAR-2013 13:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
Cal Date : 15-MAR-2013 13:09 Cal File: 1AC15004.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	2.304	2.303	(1.000)	433180	40.0000	
* 6 Acenaphthene-d10	164	3.324	3.323	(1.000)	306883	40.0000	
* 10 Phenanthrene-d10	188	4.248	4.247	(1.000)	399304	40.0000	
$ 14 o-Terphenyl	230	4.521	4.525	(1.064)	4478	1.00000	0.7825
* 18 Chrysene-d12	240	6.241	6.245	(1.000)	349216	40.0000	
* 23 Perylene-d12	264	7.325	7.330	(1.000)	394419	40.0000	
2 Naphthalene	128	2.314	2.313	(1.005)	9402	1.00000	0.9394
3 2-Methylnaphthalene	141	2.715	2.714	(1.179)	4202	1.00000	0.8334
4 1-Methylnaphthalene	142	2.768	2.773	(1.202)	5990	1.00000	1.0408
5 Acenaphthylene	152	3.239	3.238	(0.974)	9023	1.00000	0.8177
7 Acenaphthene	154	3.340	3.344	(1.005)	5486	1.00000	0.8765
9 Fluorene	166	3.650	3.649	(1.098)	5453	1.00000	0.6910
11 Phenanthrene	178	4.259	4.263	(1.002)	9354	1.00000	0.9242
12 Anthracene	178	4.291	4.295	(1.010)	9128	1.00000	0.9302
13 Carbazole	167	4.451	4.456	(1.048)	8467	1.00000	0.9844
15 Fluoranthene	202	5.114	5.113	(1.204)	9247	1.00000	0.9243
16 Pyrene	202	5.274	5.278	(0.845)	9768	1.00000	0.9755
17 Benzo(a)anthracene	228	6.235	6.235	(0.999)	9270	1.00000	0.9199
19 Chrysene	228	6.252	6.261	(1.002)	9859	1.00000	1.0900
20 Benzo(b)fluoranthene	252	7.048	7.052	(0.962)	9078	1.00000	1.0109
21 Benzo(k)fluoranthene	252	7.064	7.073	(0.964)	8216	1.00000	0.7722
22 Benzo(a)pyrene	252	7.277	7.282	(0.993)	8623	1.00000	0.9315
24 Indeno(1,2,3-cd)pyrene	276	8.025	8.035	(1.096)	7610	1.00000	0.9111(M)
25 Dibenzo(a,h)anthracene	278	8.030	8.045	(1.096)	7049	1.00000	0.8515
26 Benzo(g,h,i)perylene	276	8.212	8.222	(1.121)	8597	1.00000	1.0225

QC Flag Legend

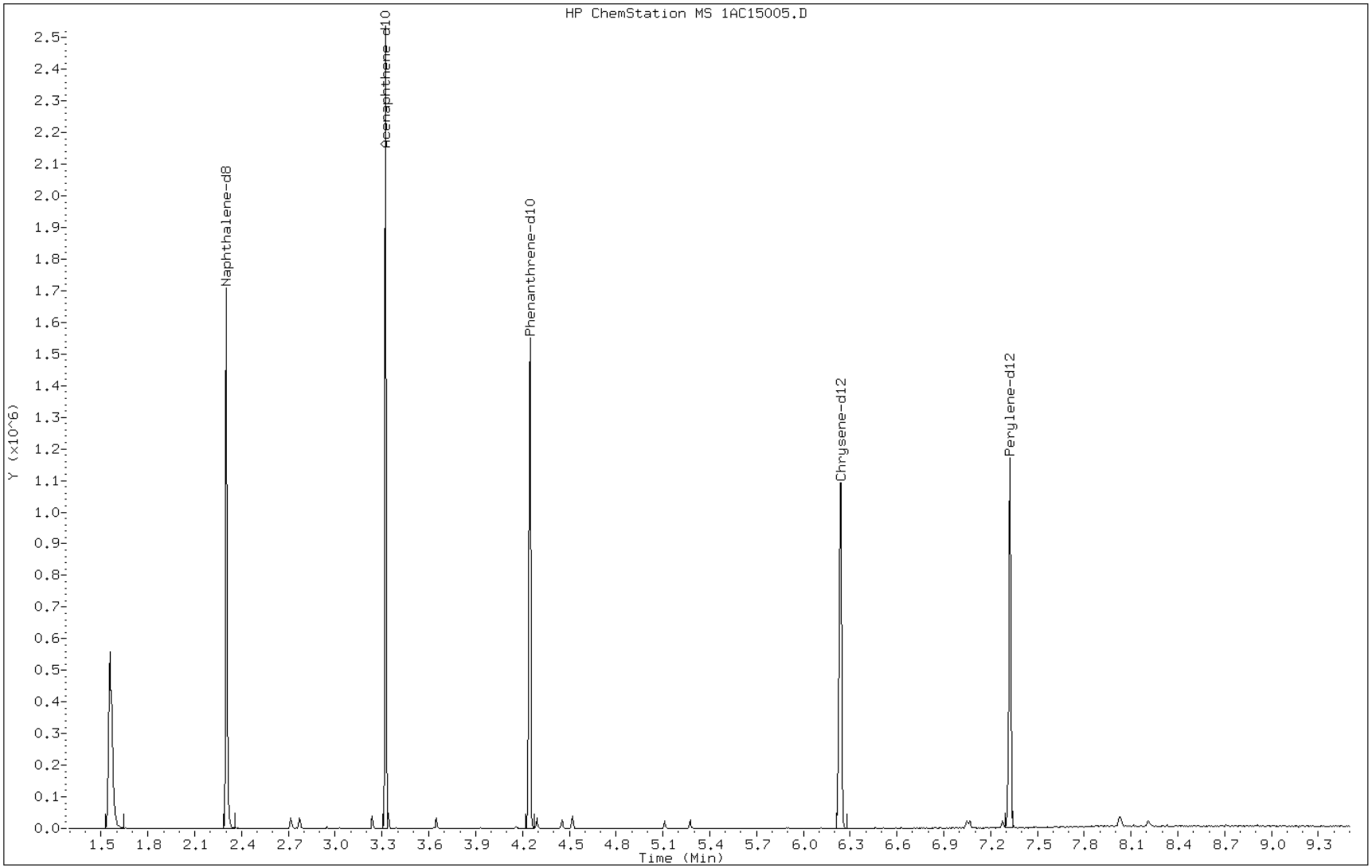
M - Compound response manually integrated.

Data File: 1AC15005.D

Date: 15-MAR-2013 13:24

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512359 Operator: SCC



Manual Integration Report

Data File: 1AC15005.D
Inj. Date and Time: 15-MAR-2013 13:24
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

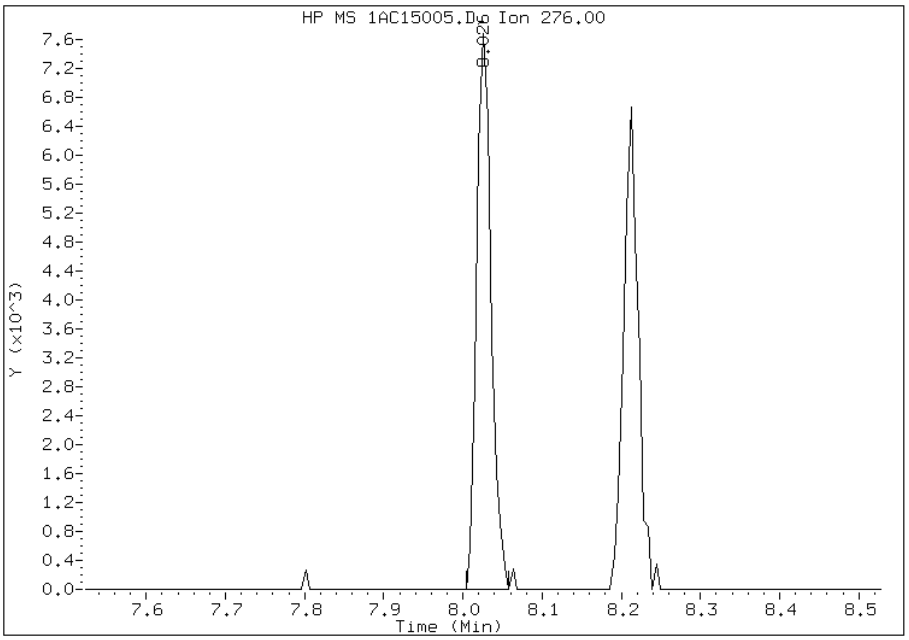
Processing Integration Results

RT: 8.03

Response: 9630

Amount: 1

Conc: 1



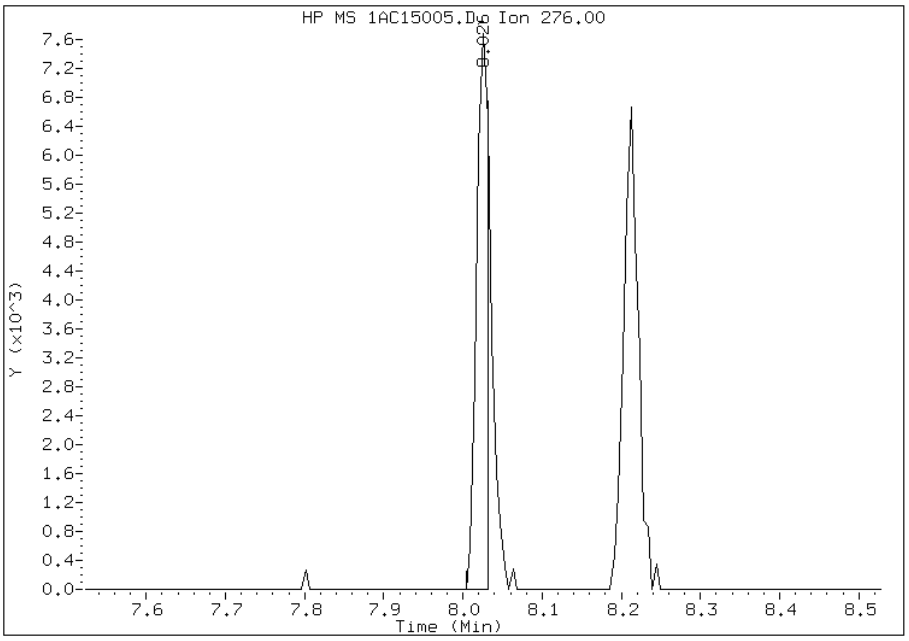
Manual Integration Results

RT: 8.03

Response: 7610

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:48
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15006.D
Lab Smp Id: IC-1512360
Inj Date : 15-MAR-2013 13:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
Cal Date : 15-MAR-2013 13:24 Cal File: 1AC15005.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	2.301	2.303	(1.000)	462418	40.0000	
* 6 Acenaphthene-d10	164	3.322	3.323	(1.000)	276334	40.0000	
* 10 Phenanthrene-d10	188	4.246	4.247	(1.000)	415283	40.0000	
$ 14 o-Terphenyl	230	4.523	4.525	(1.065)	26653	5.00000	4.4785
* 18 Chrysene-d12	240	6.238	6.245	(1.000)	380837	40.0000	
* 23 Perylene-d12	264	7.328	7.330	(1.000)	442088	40.0000	
2 Naphthalene	128	2.312	2.313	(1.005)	48636	5.00000	4.5524
3 2-Methylnaphthalene	141	2.713	2.714	(1.179)	25420	5.00000	4.7233
4 1-Methylnaphthalene	142	2.771	2.773	(1.204)	26047	5.00000	4.2399
5 Acenaphthylene	152	3.236	3.238	(0.974)	45490	5.00000	4.5783
7 Acenaphthene	154	3.338	3.344	(1.005)	25006	5.00000	4.4370
9 Fluorene	166	3.647	3.649	(1.098)	33830	5.00000	4.7612
11 Phenanthrene	178	4.262	4.263	(1.004)	49383	5.00000	4.6918
12 Anthracene	178	4.294	4.295	(1.011)	47464	5.00000	4.6507
13 Carbazole	167	4.449	4.456	(1.048)	40347	5.00000	4.5105
15 Fluoranthene	202	5.111	5.113	(1.204)	47441	5.00000	4.5598
16 Pyrene	202	5.271	5.278	(0.845)	49430	5.00000	4.5267
17 Benzo(a)anthracene	228	6.233	6.235	(0.999)	49496	5.00000	4.5041
19 Chrysene	228	6.254	6.261	(1.003)	46576	5.00000	4.7219
20 Benzo(b)fluoranthene	252	7.050	7.052	(0.962)	49338	5.00000	4.9020
21 Benzo(k)fluoranthene	252	7.066	7.073	(0.964)	53608	5.00000	4.4954
22 Benzo(a)pyrene	252	7.275	7.282	(0.993)	46577	5.00000	4.4893
24 Indeno(1,2,3-cd)pyrene	276	8.023	8.035	(1.095)	40658	5.00000	4.3431(M)
25 Dibenzo(a,h)anthracene	278	8.033	8.045	(1.096)	43660	5.00000	4.7057
26 Benzo(g,h,i)perylene	276	8.210	8.222	(1.120)	43115	5.00000	4.5754

QC Flag Legend

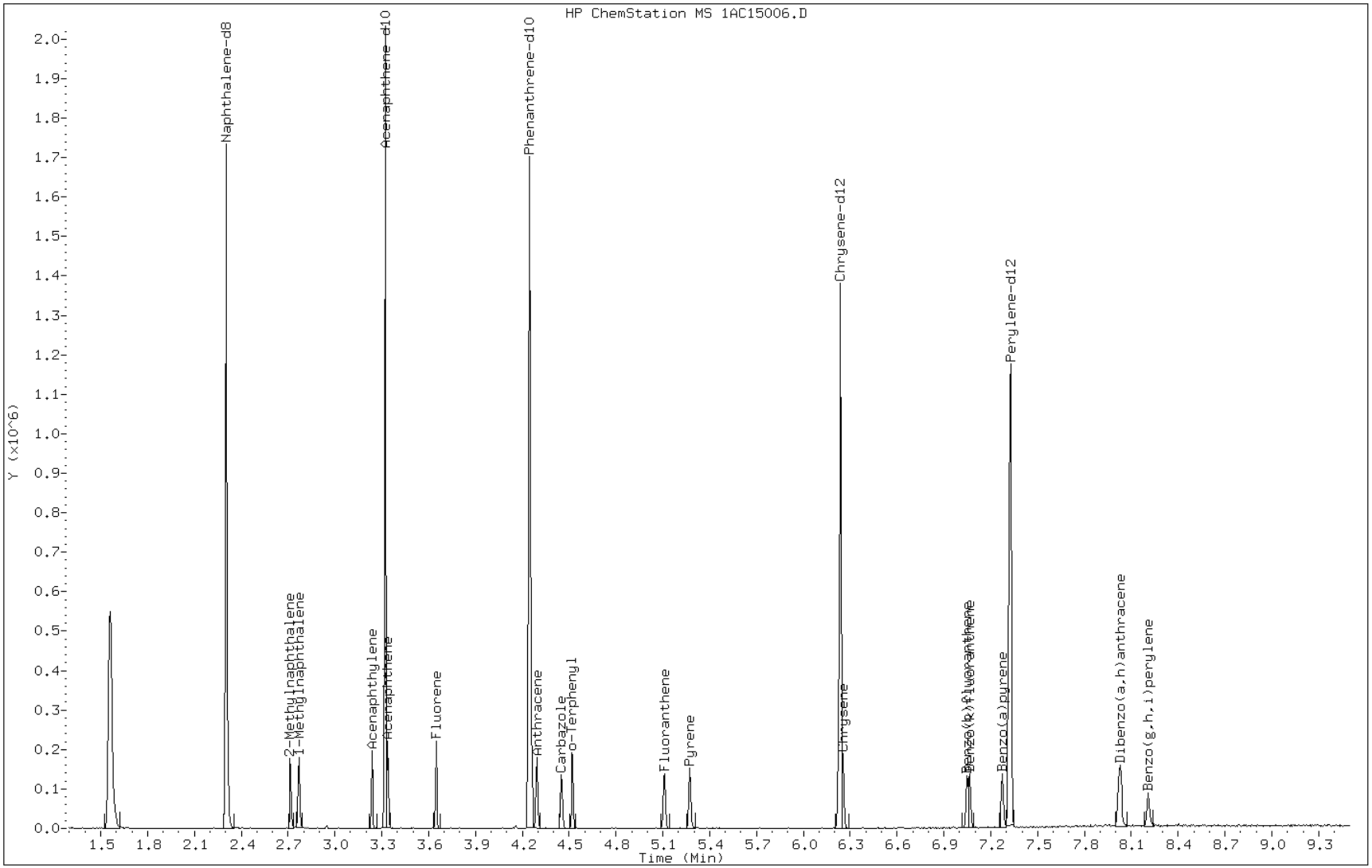
M - Compound response manually integrated.

Data File: 1AC15006.D

Date: 15-MAR-2013 13:39

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

Data File: 1AC15006.D
Inj. Date and Time: 15-MAR-2013 13:39
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

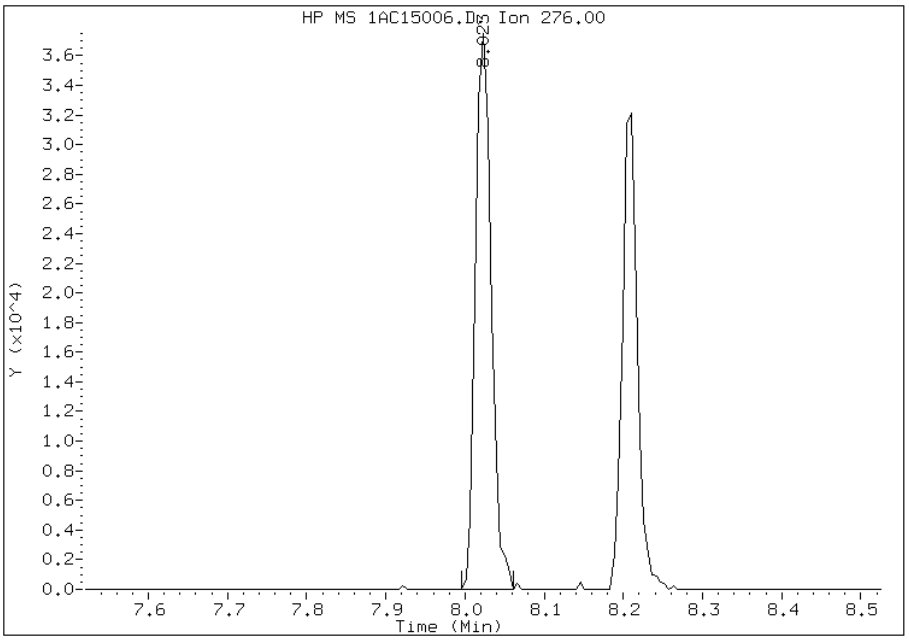
Processing Integration Results

RT: 8.02

Response: 51555

Amount: 5

Conc: 5



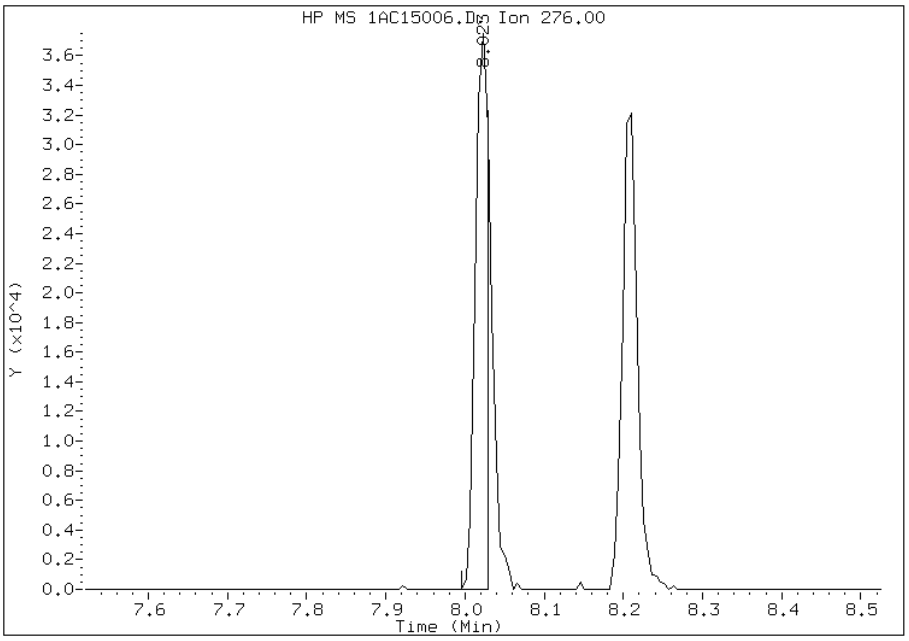
Manual Integration Results

RT: 8.02

Response: 40658

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:48
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15007.D
Lab Smp Id: IC-1512361
Inj Date : 15-MAR-2013 13:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
Cal Date : 15-MAR-2013 13:39 Cal File: 1AC15006.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	2.301	2.303	(1.000)	400821	40.0000	
* 6 Acenaphthene-d10	164	3.321	3.323	(1.000)	243827	40.0000	
* 10 Phenanthrene-d10	188	4.245	4.247	(1.000)	359580	40.0000	
$ 14 o-Terphenyl	230	4.523	4.525	(1.065)	49925	10.0000	9.6884
* 18 Chrysene-d12	240	6.238	6.245	(1.000)	338736	40.0000	
* 23 Perylene-d12	264	7.322	7.330	(1.000)	380168	40.0000	
2 Naphthalene	128	2.312	2.313	(1.005)	91487	10.0000	9.8794
3 2-Methylnaphthalene	141	2.718	2.714	(1.181)	49806	10.0000	10.6766
4 1-Methylnaphthalene	142	2.771	2.773	(1.204)	51777	10.0000	9.7236
5 Acenaphthylene	152	3.236	3.238	(0.974)	91795	10.0000	10.4704
7 Acenaphthene	154	3.343	3.344	(1.006)	47803	10.0000	9.6130
9 Fluorene	166	3.647	3.649	(1.098)	60194	10.0000	9.6010
11 Phenanthrene	178	4.261	4.263	(1.004)	93111	10.0000	10.2168
12 Anthracene	178	4.293	4.295	(1.011)	91019	10.0000	10.3001
13 Carbazole	167	4.454	4.456	(1.049)	73717	10.0000	9.5178
15 Fluoranthene	202	5.111	5.113	(1.204)	90262	10.0000	10.0195
16 Pyrene	202	5.271	5.278	(0.845)	97774	10.0000	10.0669
17 Benzo(a)anthracene	228	6.227	6.235	(0.998)	96948	10.0000	9.9188
19 Chrysene	228	6.254	6.261	(1.003)	88211	10.0000	10.0543
20 Benzo(b)fluoranthene	252	7.050	7.052	(0.963)	86931	10.0000	10.0438
21 Benzo(k)fluoranthene	252	7.066	7.073	(0.965)	106676	10.0000	10.4026
22 Benzo(a)pyrene	252	7.274	7.282	(0.993)	88362	10.0000	9.9040
24 Indeno(1,2,3-cd)pyrene	276	8.028	8.035	(1.096)	84090	10.0000	10.4457(M)
25 Dibenzo(a,h)anthracene	278	8.033	8.045	(1.097)	76903	10.0000	9.6388
26 Benzo(g,h,i)perylene	276	8.209	8.222	(1.121)	79114	10.0000	9.7632

QC Flag Legend

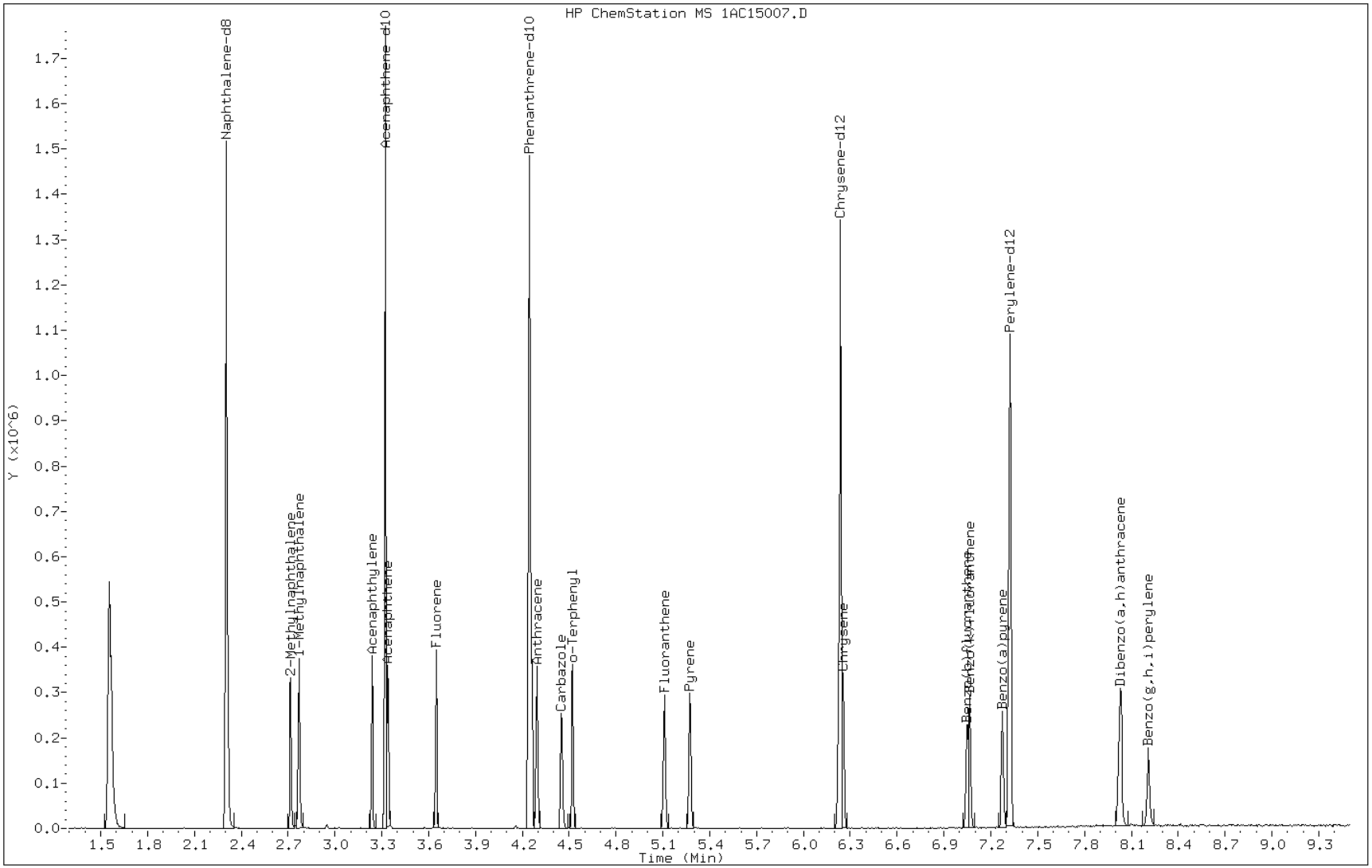
M - Compound response manually integrated.

Data File: 1AC15007.D

Date: 15-MAR-2013 13:54

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512361 Operator: SCC



Manual Integration Report

Data File: 1AC15007.D
Inj. Date and Time: 15-MAR-2013 13:54
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

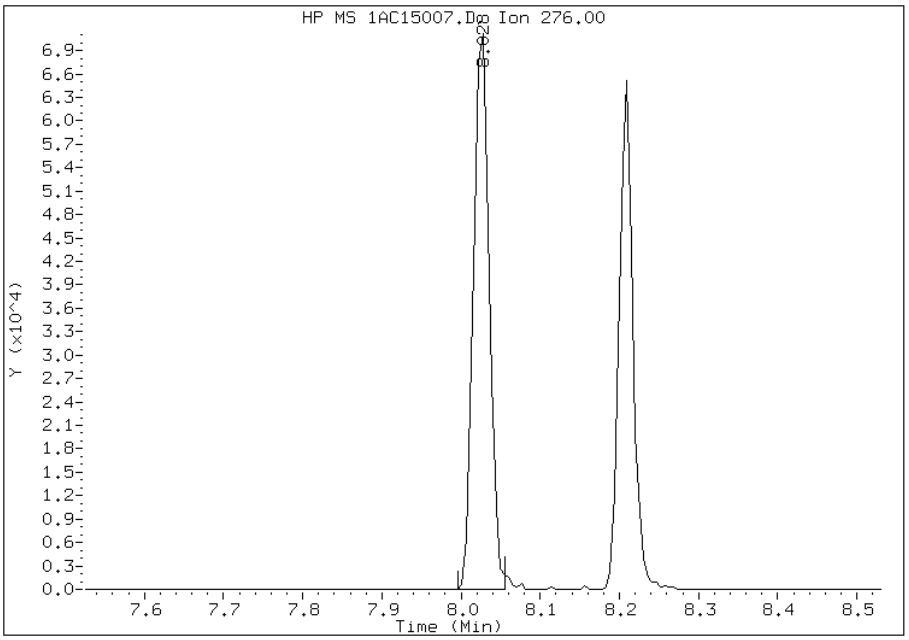
Processing Integration Results

RT: 8.03

Response: 97441

Amount: 11

Conc: 11



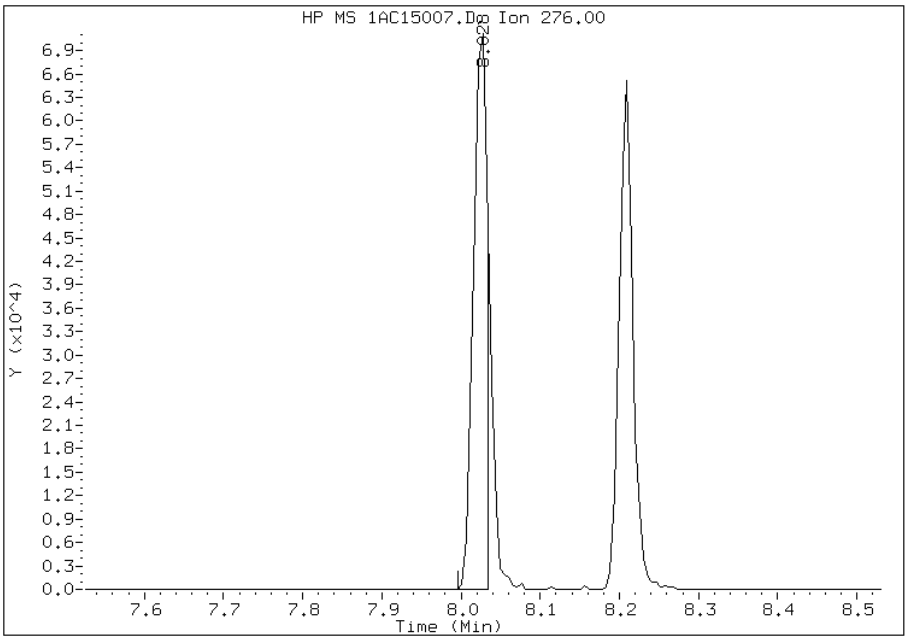
Manual Integration Results

RT: 8.03

Response: 84090

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:49
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15008.D
Lab Smp Id: IC-1512373
Inj Date : 15-MAR-2013 14:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
Cal Date : 15-MAR-2013 13:54 Cal File: 1AC15007.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	2.302	2.303	(1.000)	411292	40.0000	
* 6 Acenaphthene-d10	164	3.323	3.323	(1.000)	261514	40.0000	
* 10 Phenanthrene-d10	188	4.247	4.247	(1.000)	369627	40.0000	
$ 14 o-Terphenyl	230	4.525	4.525	(1.065)	169501	30.0000	31.9993
* 18 Chrysene-d12	240	6.239	6.245	(1.000)	356785	40.0000	
* 23 Perylene-d12	264	7.329	7.330	(1.000)	391800	40.0000	
2 Naphthalene	128	2.313	2.313	(1.005)	303622	30.0000	31.9527
3 2-Methylnaphthalene	141	2.719	2.714	(1.181)	173551	30.0000	36.2562
4 1-Methylnaphthalene	142	2.772	2.773	(1.204)	180305	30.0000	32.9988
5 Acenaphthylene	152	3.237	3.238	(0.974)	319635	30.0000	33.9929
7 Acenaphthene	154	3.344	3.344	(1.006)	189235	30.0000	35.4807
9 Fluorene	166	3.648	3.649	(1.098)	227926	30.0000	33.8959
11 Phenanthrene	178	4.263	4.263	(1.004)	303905	30.0000	32.4404
12 Anthracene	178	4.295	4.295	(1.011)	298885	30.0000	32.9038
13 Carbazole	167	4.455	4.456	(1.049)	239621	30.0000	30.0972
15 Fluoranthene	202	5.112	5.113	(1.204)	301939	30.0000	32.6057
16 Pyrene	202	5.278	5.278	(0.846)	323353	30.0000	31.6087
17 Benzo(a)anthracene	228	6.229	6.235	(0.998)	307563	30.0000	29.8752
19 Chrysene	228	6.261	6.261	(1.003)	293362	30.0000	31.7461
20 Benzo(b)fluoranthene	252	7.051	7.052	(0.962)	285512	30.0000	32.0081
21 Benzo(k)fluoranthene	252	7.073	7.073	(0.965)	335436	30.0000	31.7393
22 Benzo(a)pyrene	252	7.281	7.282	(0.993)	284542	30.0000	30.9461
24 Indeno(1,2,3-cd)pyrene	276	8.040	8.035	(1.097)	263461	30.0000	31.7558(M)
25 Dibenzo(a,h)anthracene	278	8.050	8.045	(1.098)	261651	30.0000	31.8210
26 Benzo(g,h,i)perylene	276	8.221	8.222	(1.122)	245198	30.0000	29.3607

QC Flag Legend

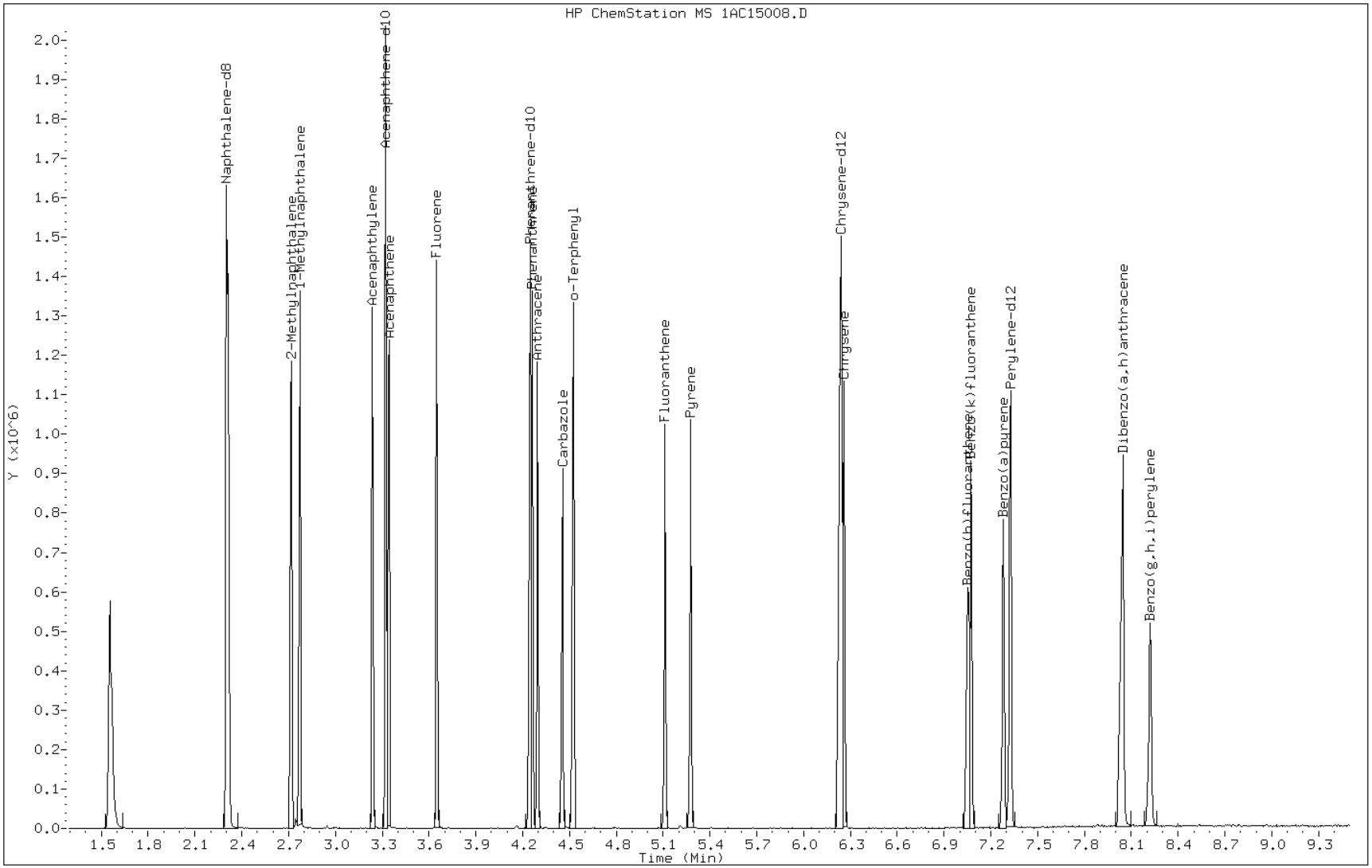
M - Compound response manually integrated.

Data File: 1AC15008.D

Date: 15-MAR-2013 14:10

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512373 Operator: SCC



Manual Integration Report

Data File: 1AC15008.D
Inj. Date and Time: 15-MAR-2013 14:10
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

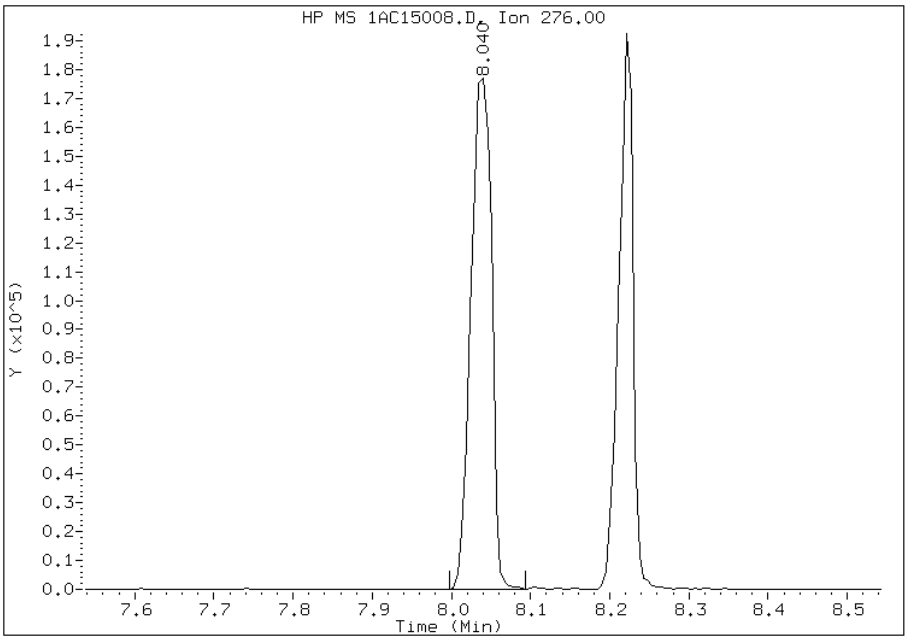
Processing Integration Results

RT: 8.04

Response: 316858

Amount: 34

Conc: 34



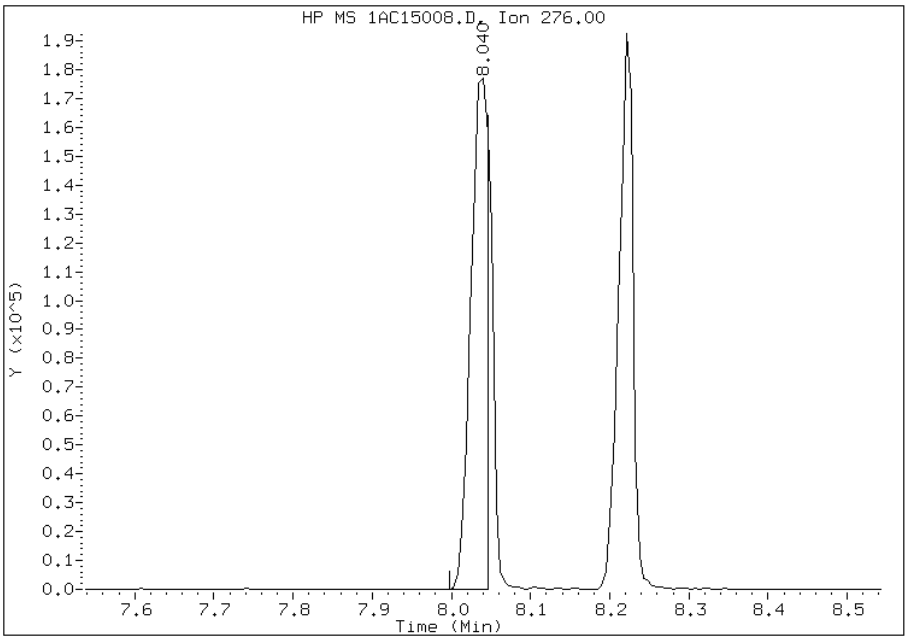
Manual Integration Results

RT: 8.04

Response: 263461

Amount: 32

Conc: 32



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:49
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15009.D
Lab Smp Id: IC-1512374
Inj Date : 15-MAR-2013 14:25
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
Cal Date : 15-MAR-2013 14:10 Cal File: 1AC15008.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	2.303	2.303	(1.000)	416711	40.0000	
* 6 Acenaphthene-d10	164	3.324	3.323	(1.000)	242716	40.0000	
* 10 Phenanthrene-d10	188	4.248	4.247	(1.000)	331701	40.0000	
$ 14 o-Terphenyl	230	4.526	4.525	(1.065)	294944	50.0000	62.0476(A)
* 18 Chrysene-d12	240	6.246	6.245	(1.000)	346445	40.0000	
* 23 Perylene-d12	264	7.330	7.330	(1.000)	375920	40.0000	
2 Naphthalene	128	2.314	2.313	(1.005)	536733	50.0000	55.7504(A)
3 2-Methylnaphthalene	141	2.720	2.714	(1.181)	291739	50.0000	60.1540(A)
4 1-Methylnaphthalene	142	2.773	2.773	(1.204)	314615	50.0000	56.8310(A)
5 Acenaphthylene	152	3.244	3.238	(0.976)	568020	50.0000	65.0871(A)
7 Acenaphthene	154	3.345	3.344	(1.006)	337349	50.0000	68.1501(A)
9 Fluorene	166	3.655	3.649	(1.100)	425998	50.0000	68.2586(A)
11 Phenanthrene	178	4.264	4.263	(1.004)	493056	50.0000	58.6491(A)
12 Anthracene	178	4.301	4.295	(1.013)	493502	50.0000	60.5408(A)
13 Carbazole	167	4.462	4.456	(1.050)	422232	50.0000	59.0976(A)
15 Fluoranthene	202	5.113	5.113	(1.204)	513840	50.0000	61.8329(A)
16 Pyrene	202	5.279	5.278	(0.845)	535158	50.0000	53.8747(A)
17 Benzo(a)anthracene	228	6.235	6.235	(0.998)	502221	50.0000	50.2394(A)
19 Chrysene	228	6.267	6.261	(1.003)	472426	50.0000	52.6494(A)
20 Benzo(b)fluoranthene	252	7.058	7.052	(0.963)	523197	50.0000	61.1322(A)
21 Benzo(k)fluoranthene	252	7.085	7.073	(0.966)	554548	50.0000	54.6885(A)
22 Benzo(a)pyrene	252	7.288	7.282	(0.994)	488657	50.0000	55.3902(A)
24 Indeno(1,2,3-cd)pyrene	276	8.051	8.035	(1.098)	499702	50.0000	62.7751(AM)
25 Dibenzo(a,h)anthracene	278	8.057	8.045	(1.099)	486347	50.0000	61.6464(A)
26 Benzo(g,h,i)perylene	276	8.238	8.222	(1.124)	434983	50.0000	54.2864(A)

QC Flag Legend

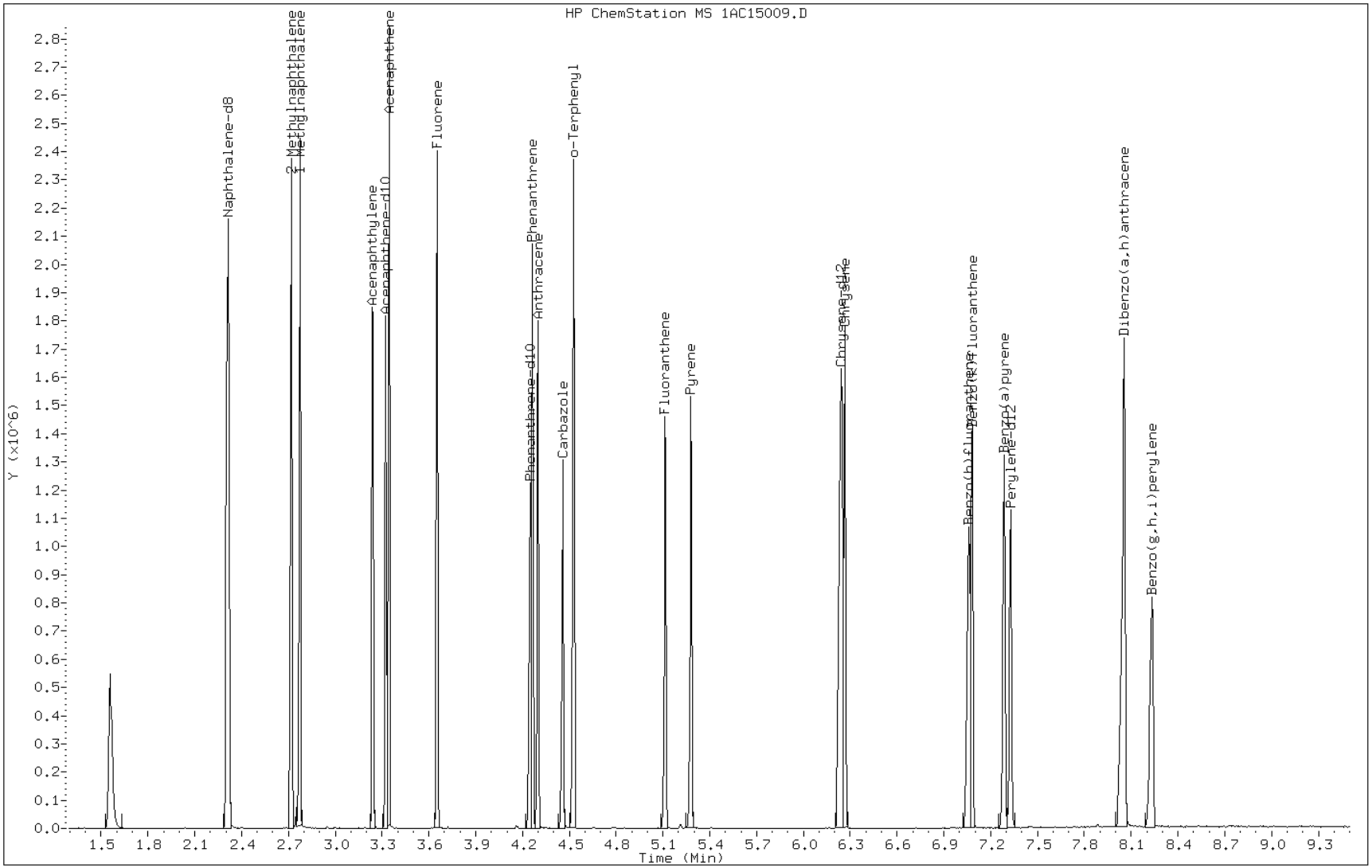
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AC15009.D

Date: 15-MAR-2013 14:25

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512374 Operator: SCC



Manual Integration Report

Data File: 1AC15009.D
Inj. Date and Time: 15-MAR-2013 14:25
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

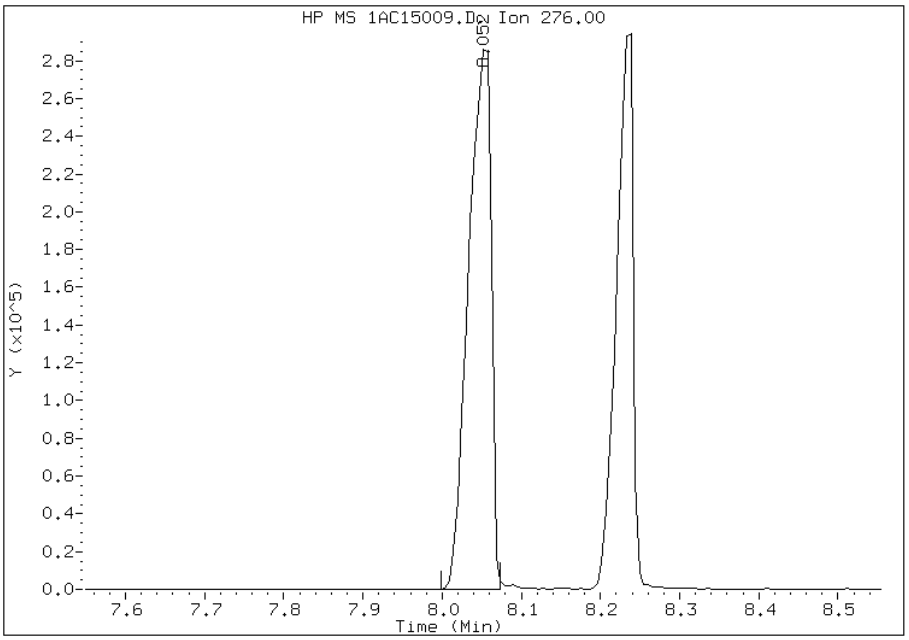
Processing Integration Results

RT: 8.05

Response: 563658

Amount: 61

Conc: 61



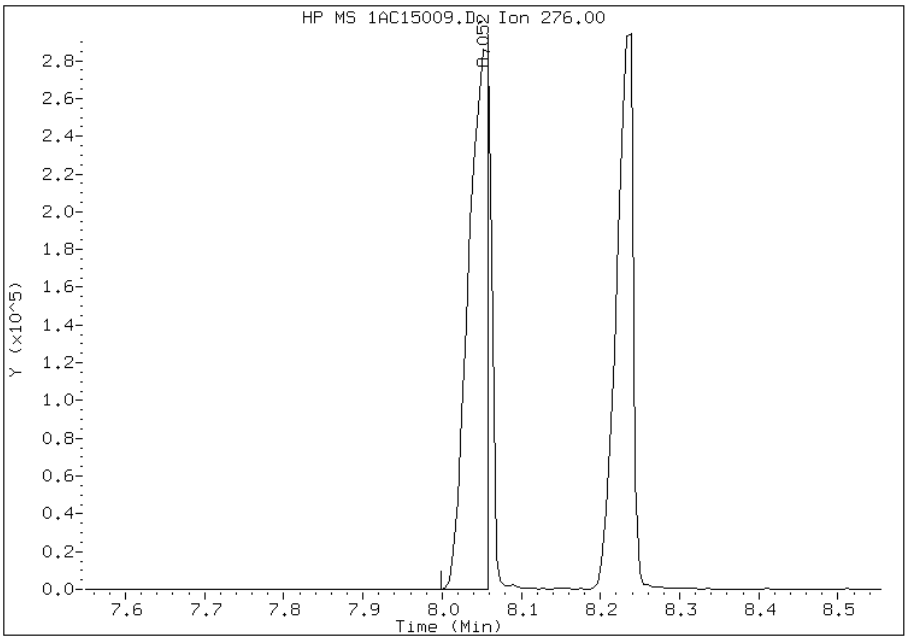
Manual Integration Results

RT: 8.05

Response: 499702

Amount: 63

Conc: 63



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 14:50
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2 Analy Batch No.: 134776

SDG No.: 68088420-2

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

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

Calibration Files:

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2 Analy Batch No.: 134776

SDG No.: 68088420-2

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

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2 Analy Batch No.: 134776

SDG No.: 68088420-2

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

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

Calibration Files:

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-2 Analy Batch No.: 134776

SDG No.: 68088420-2

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

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

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

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

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

QC Flag Legend

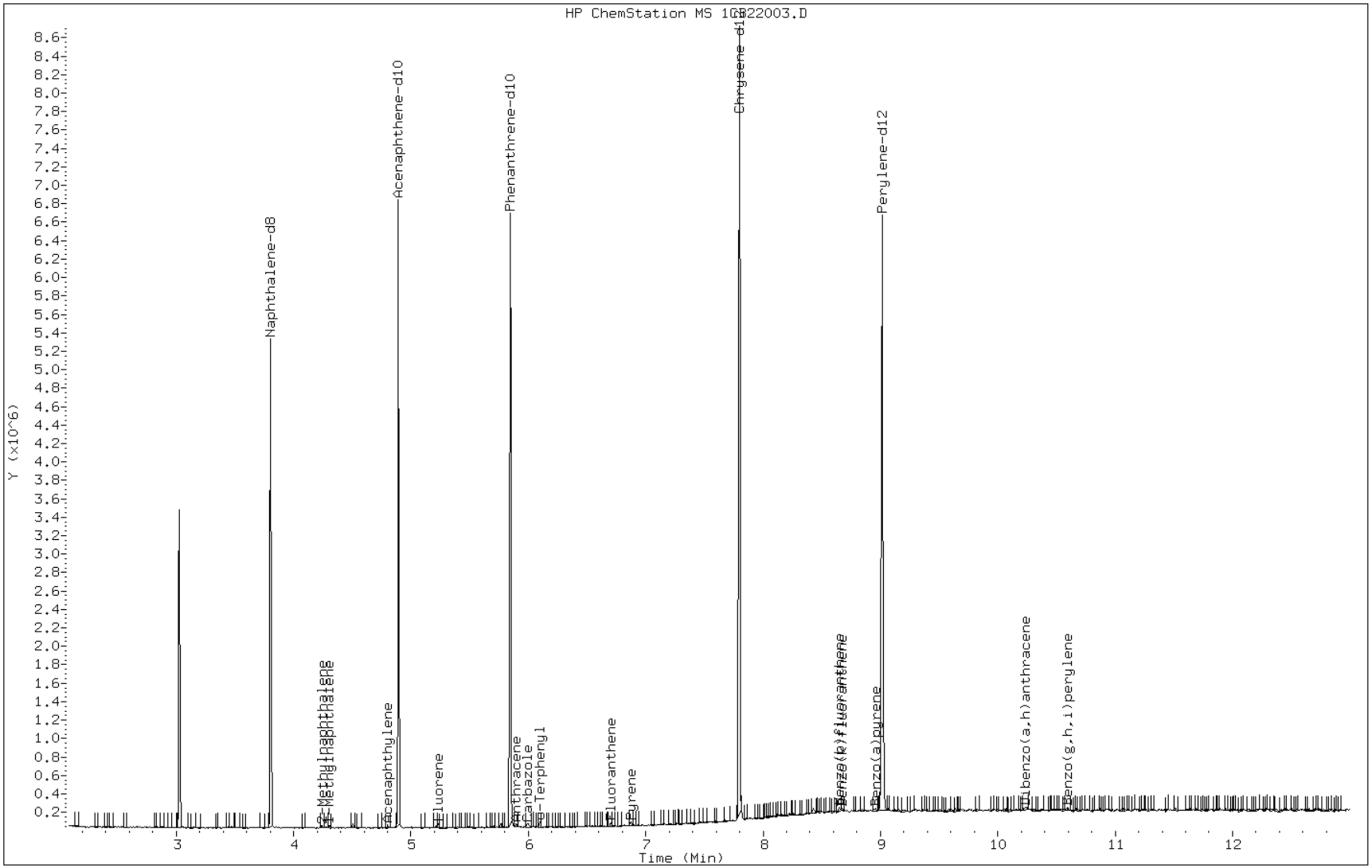
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB22003.D

Date: 22-FEB-2013 11:57

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

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

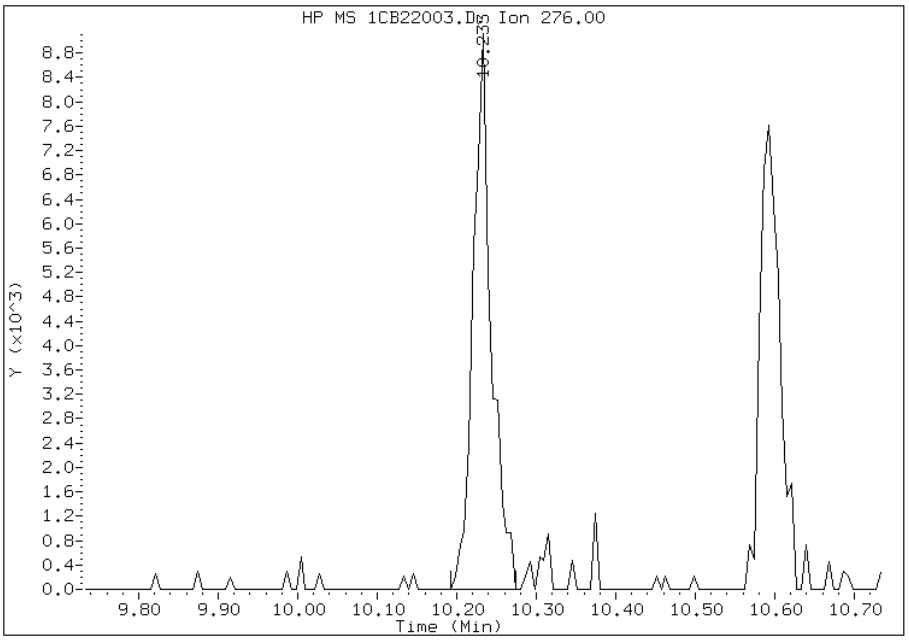
Processing Integration Results

RT: 10.23

Response: 14380

Amount: 0

Conc: 0



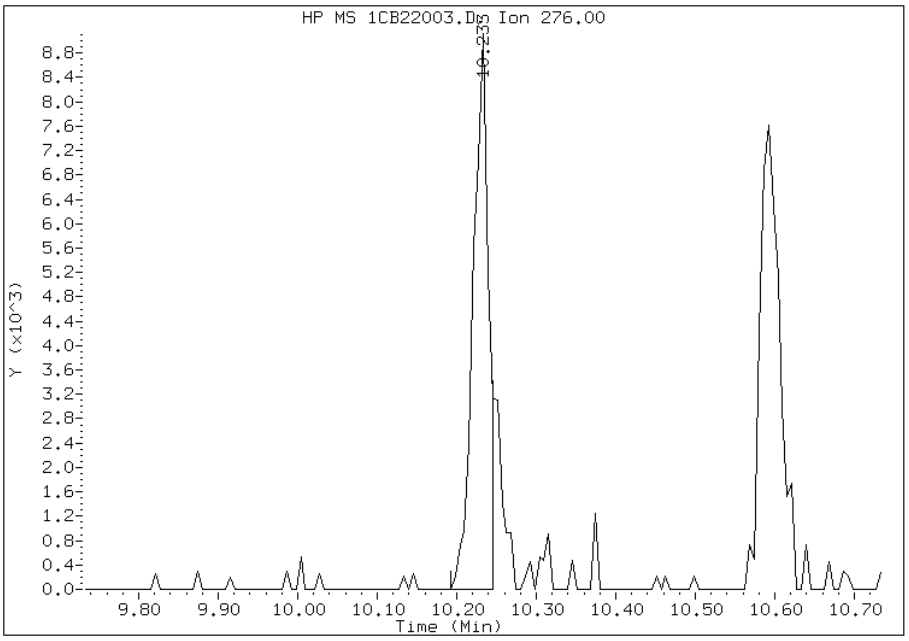
Manual Integration Results

RT: 10.23

Response: 12119

Amount: 0

Conc: 0



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

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

QC Flag Legend

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

Data File: 1CB22004.D

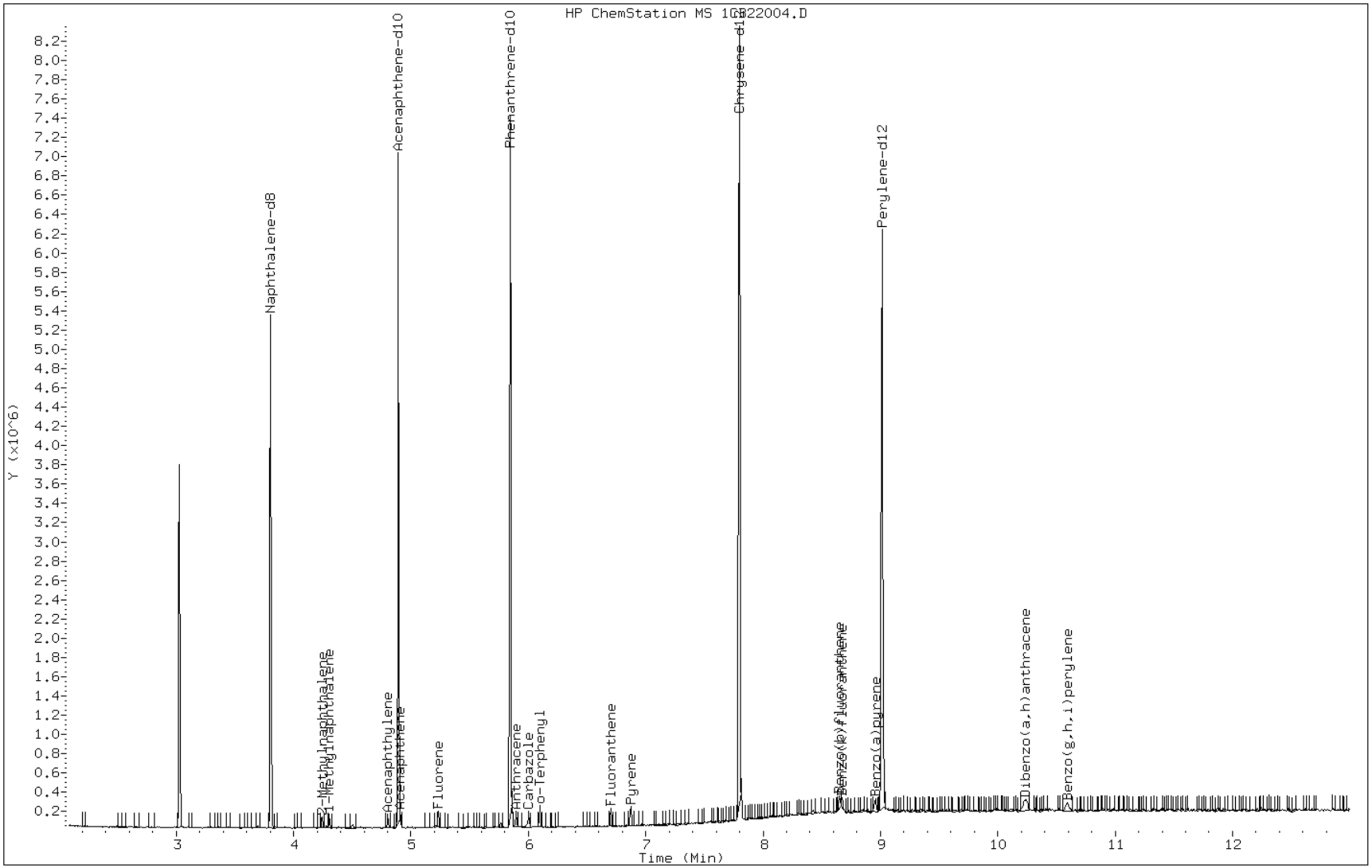
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC



Manual Integration Report

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

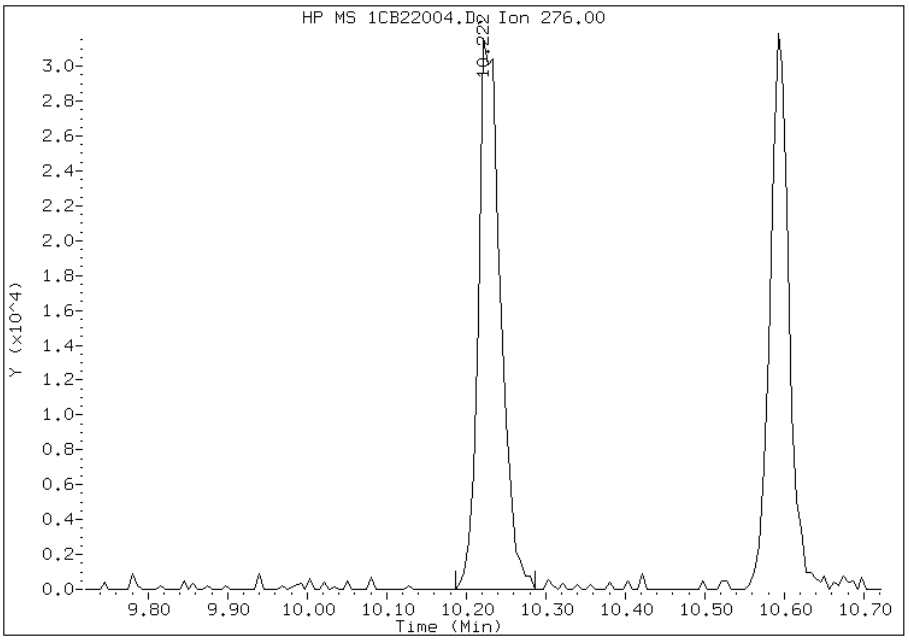
Processing Integration Results

RT: 10.22

Response: 61246

Amount: 1

Conc: 1



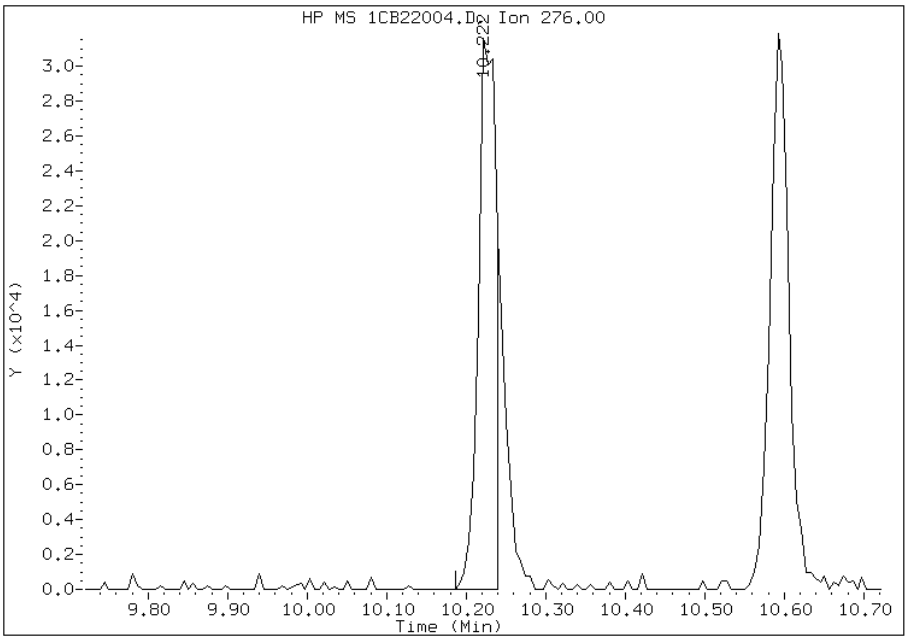
Manual Integration Results

RT: 10.22

Response: 48940

Amount: 1

Conc: 1



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

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

QC Flag Legend

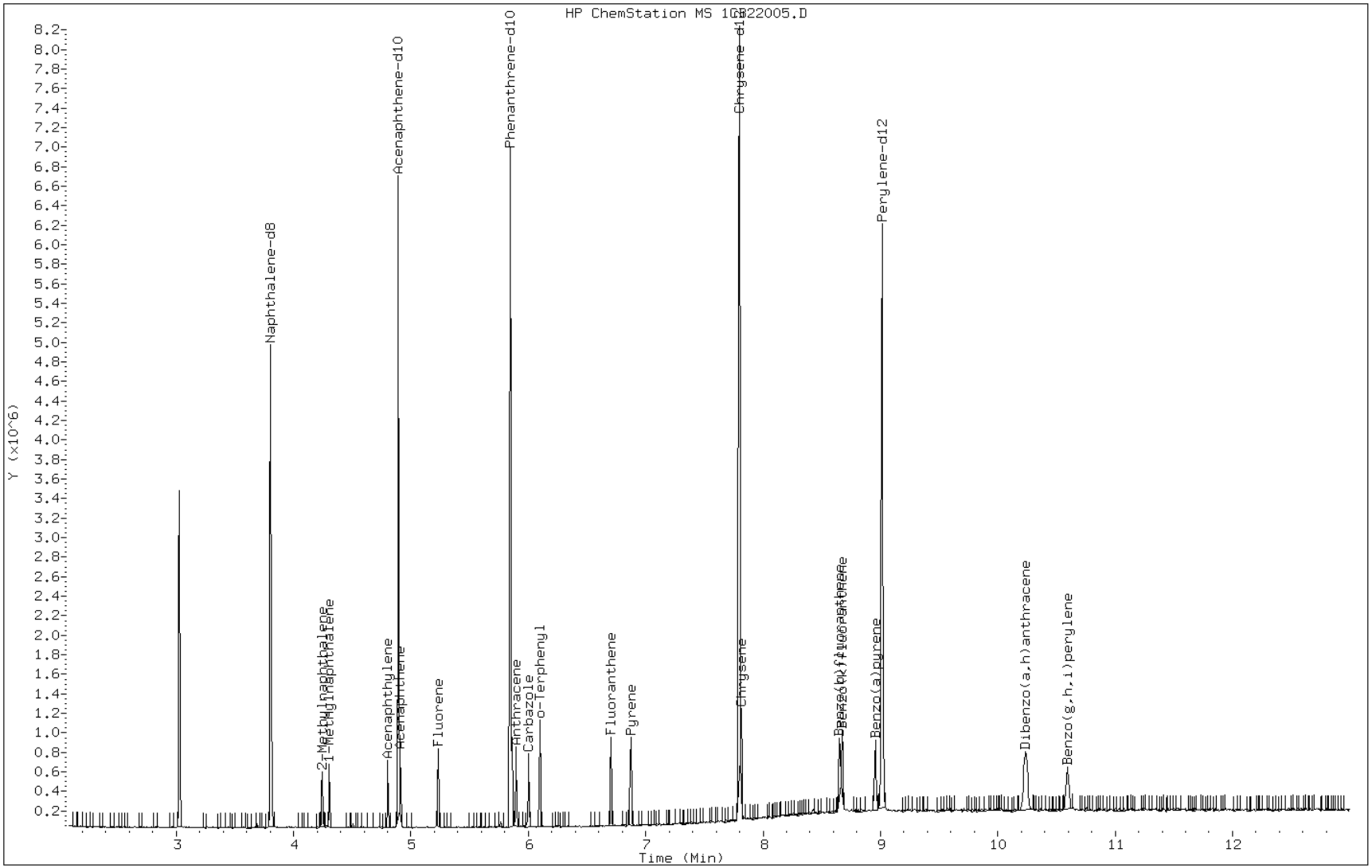
M - Compound response manually integrated.

Data File: 1CB22005.D

Date: 22-FEB-2013 12:34

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

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

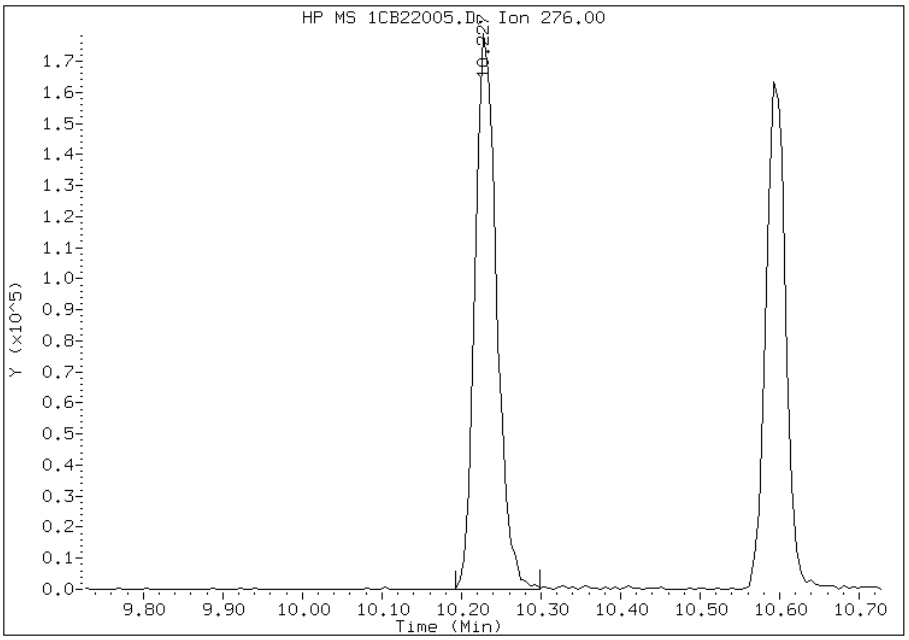
Processing Integration Results

RT: 10.23

Response: 336913

Amount: 6

Conc: 6



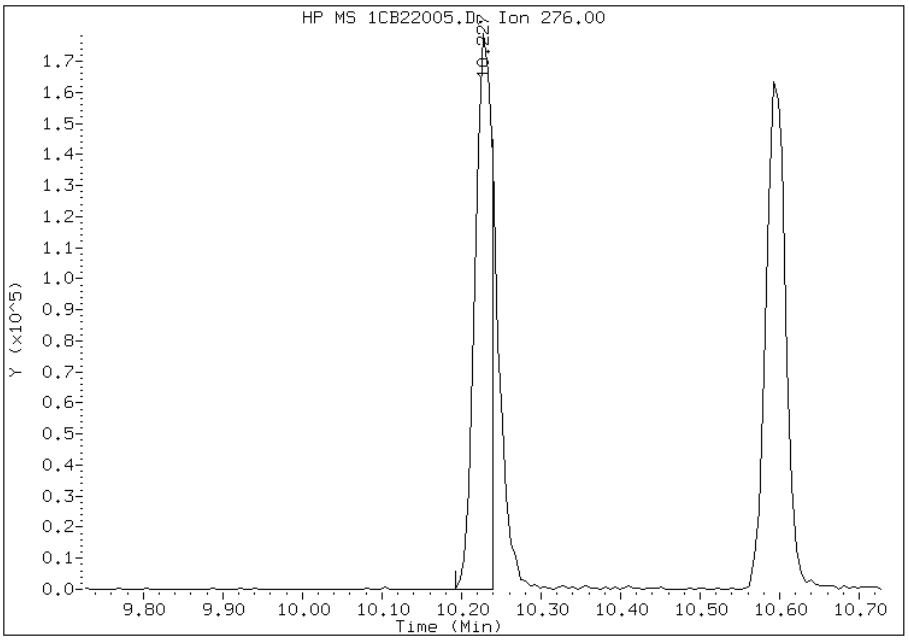
Manual Integration Results

RT: 10.23

Response: 267436

Amount: 5

Conc: 5



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

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

QC Flag Legend

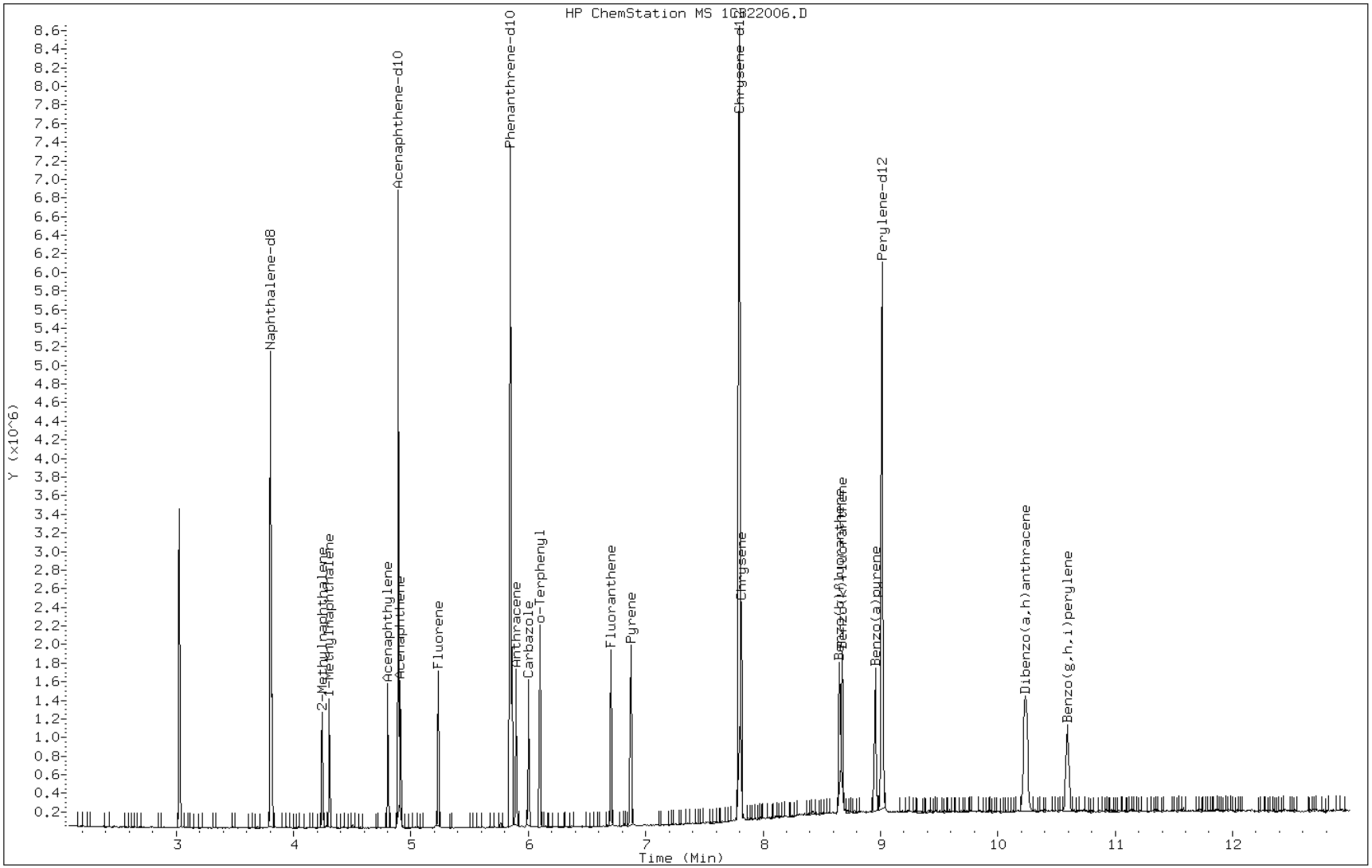
M - Compound response manually integrated.

Data File: 1CB22006.D

Date: 22-FEB-2013 12:53

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512361 Operator: SCC



Manual Integration Report

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

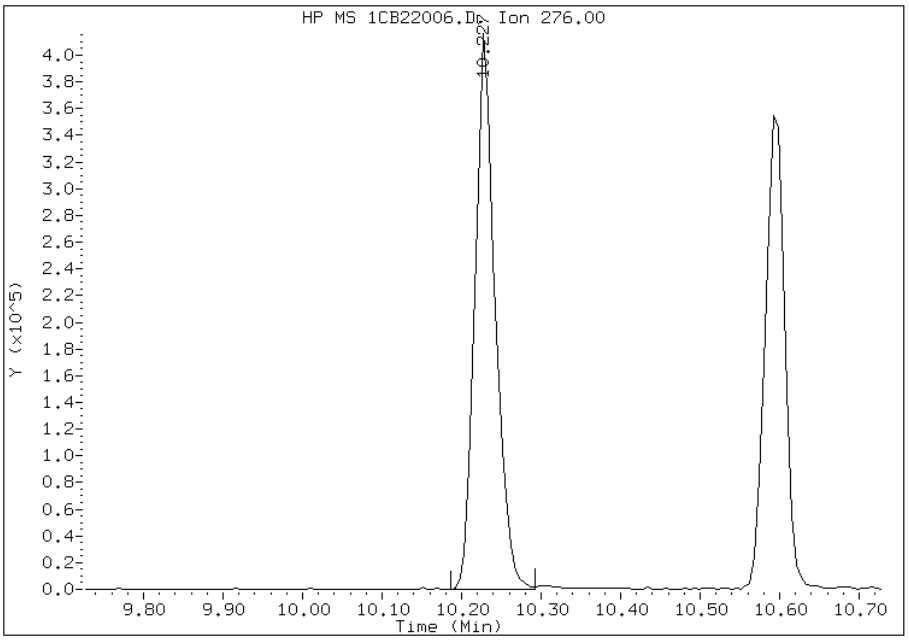
Processing Integration Results

RT: 10.23

Response: 727358

Amount: 13

Conc: 13



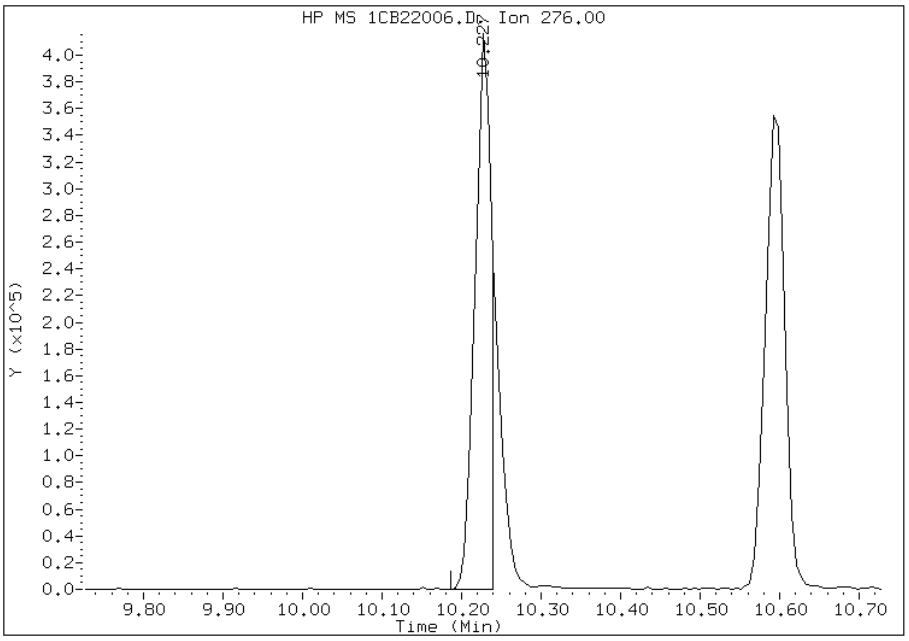
Manual Integration Results

RT: 10.23

Response: 582935

Amount: 10

Conc: 10



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

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

QC Flag Legend

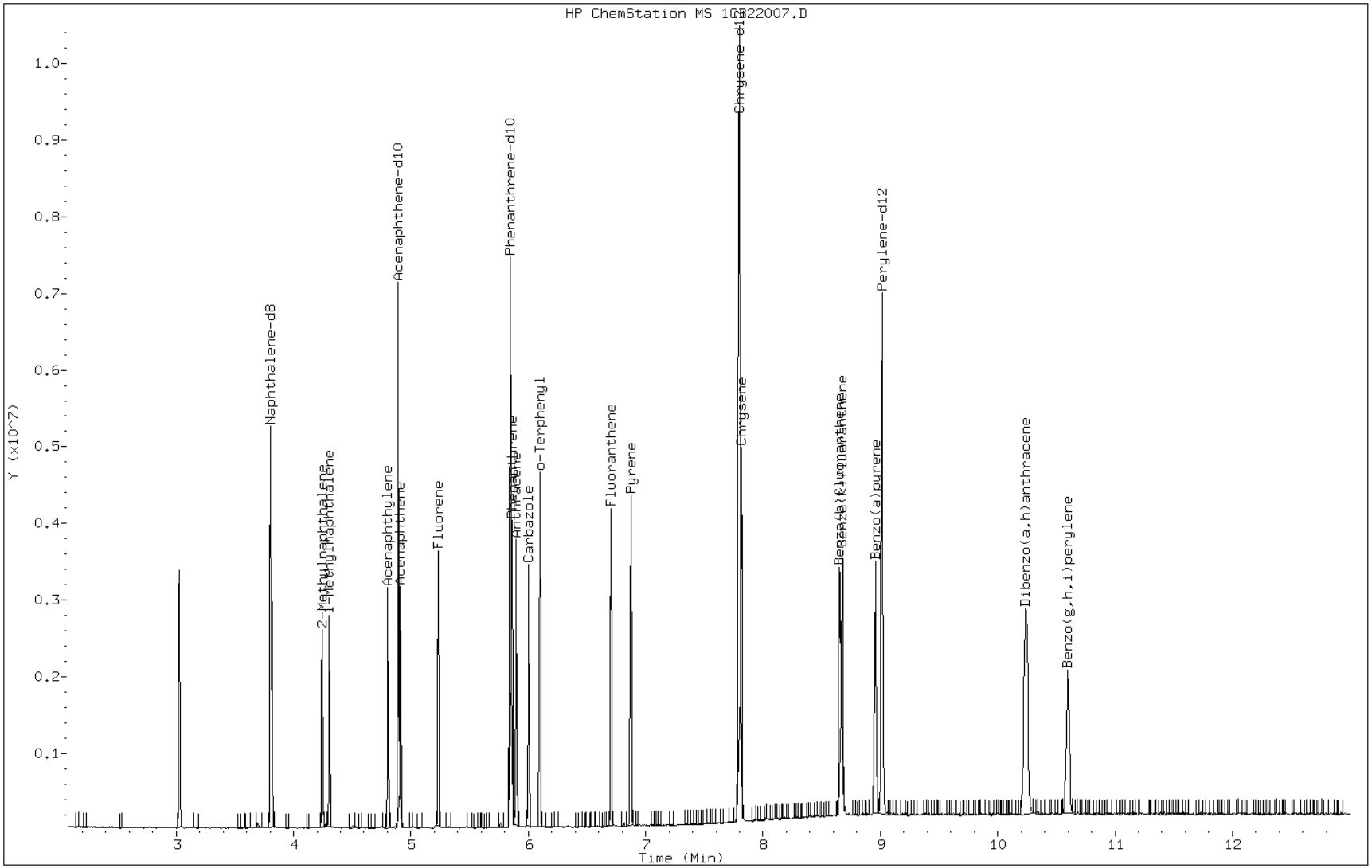
M - Compound response manually integrated.

Data File: 1CB22007.D

Date: 22-FEB-2013 13:11

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1512372 Operator: SCC



Manual Integration Report

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

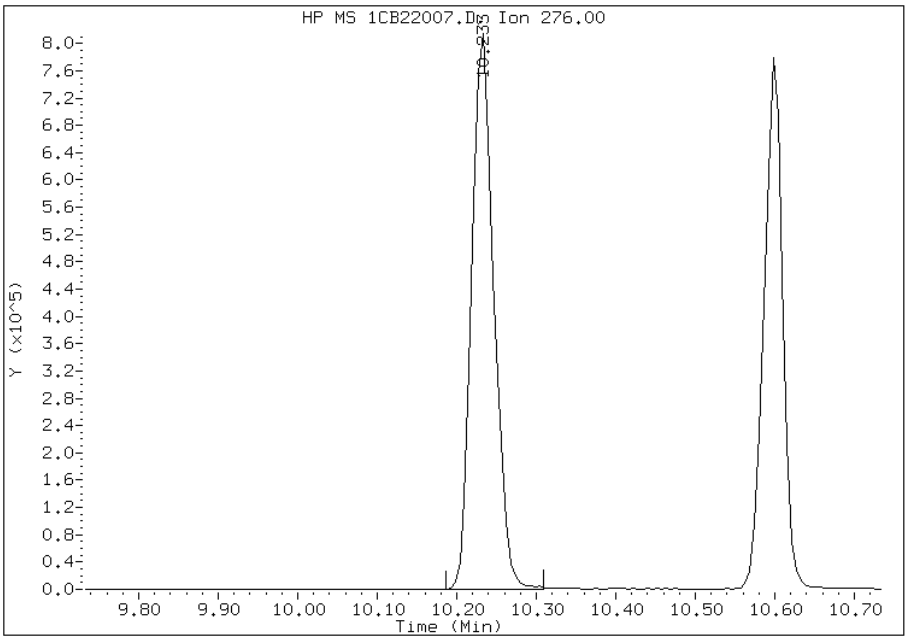
Processing Integration Results

RT: 10.23

Response: 1569498

Amount: 25

Conc: 25



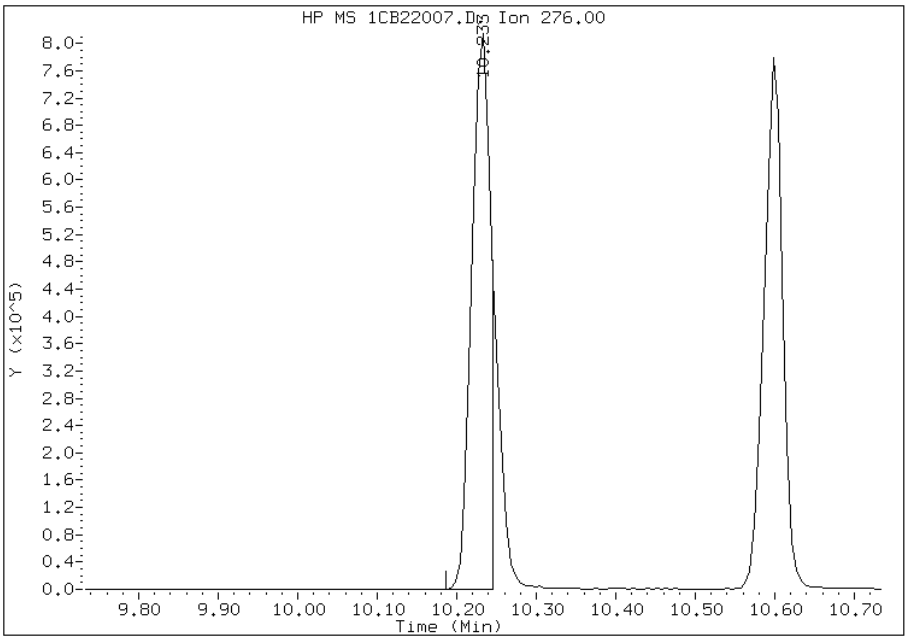
Manual Integration Results

RT: 10.23

Response: 1327322

Amount: 20

Conc: 20



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

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

QC Flag Legend

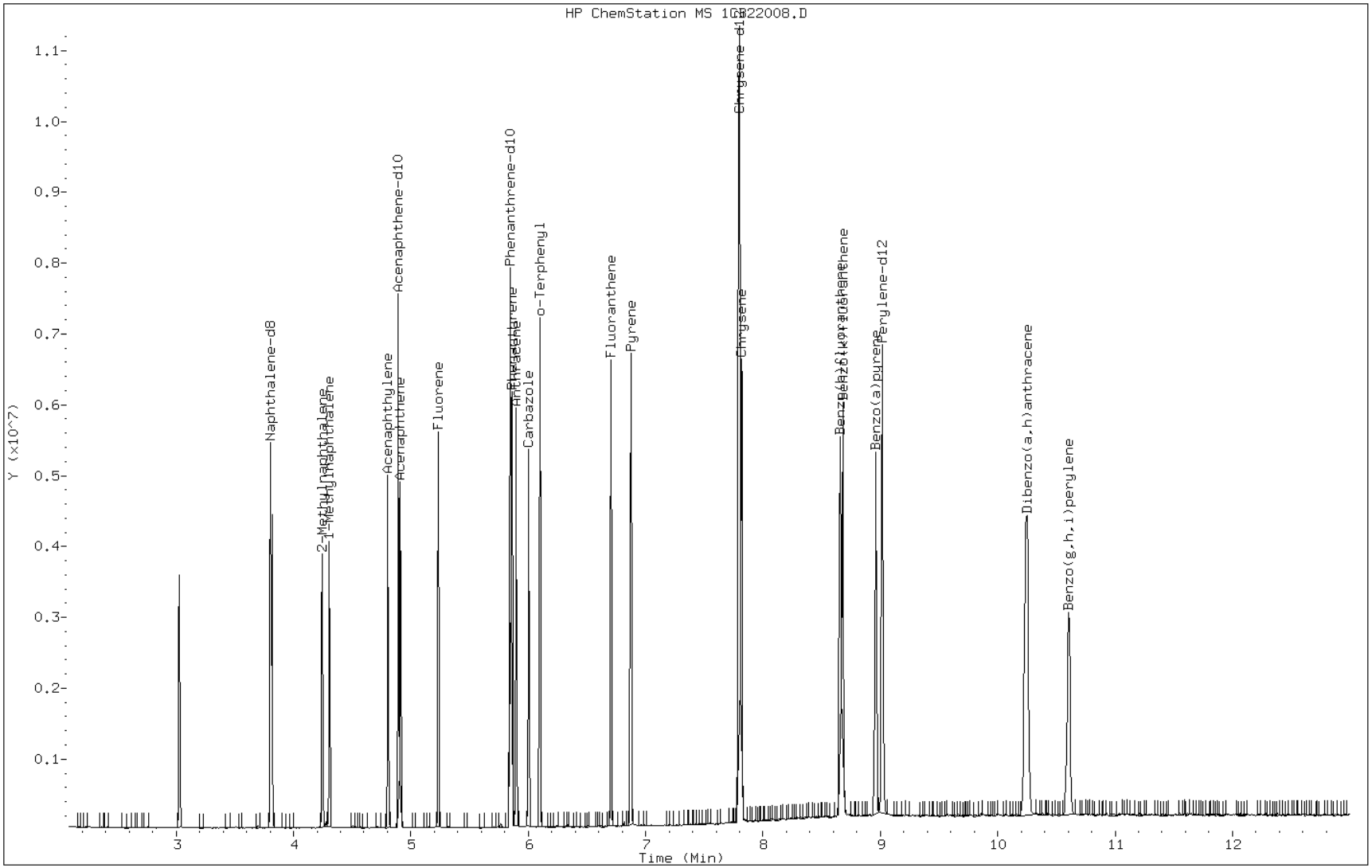
M - Compound response manually integrated.

Data File: 1CB22008.D

Date: 22-FEB-2013 13:29

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512373 Operator: SCC



Manual Integration Report

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

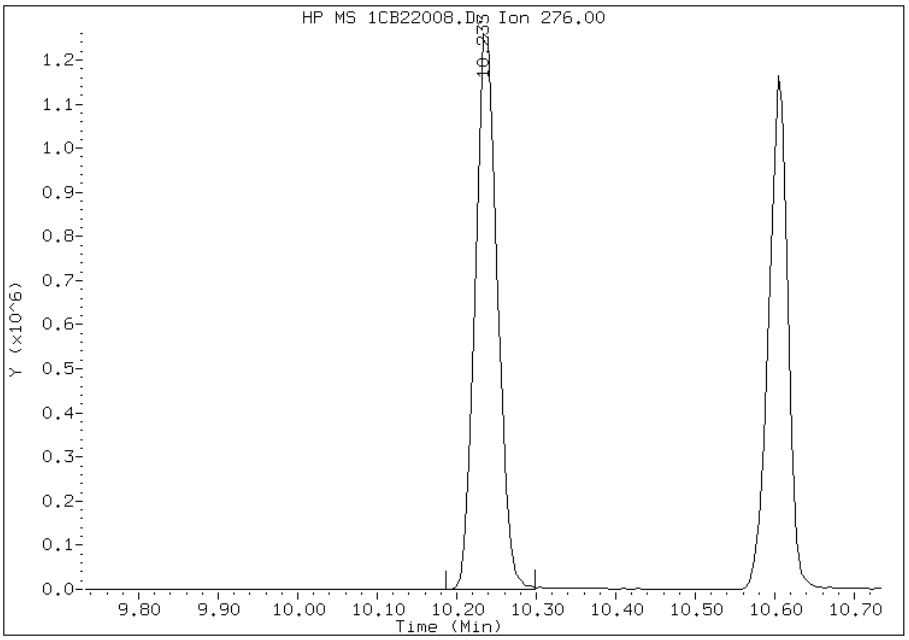
Processing Integration Results

RT: 10.23

Response: 2435528

Amount: 36

Conc: 36



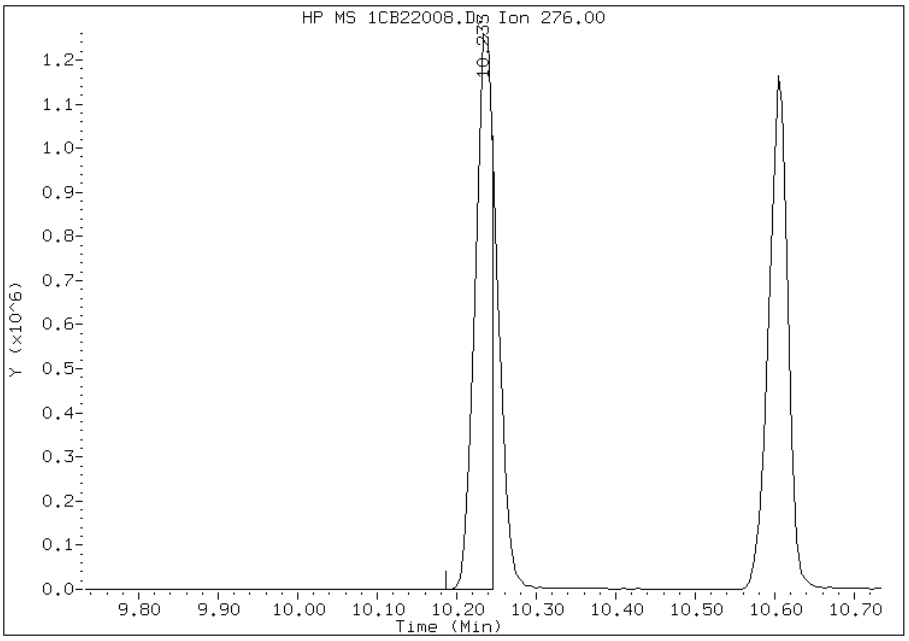
Manual Integration Results

RT: 10.23

Response: 1907725

Amount: 29

Conc: 29



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

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

QC Flag Legend

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

Data File: 1CB22009.D

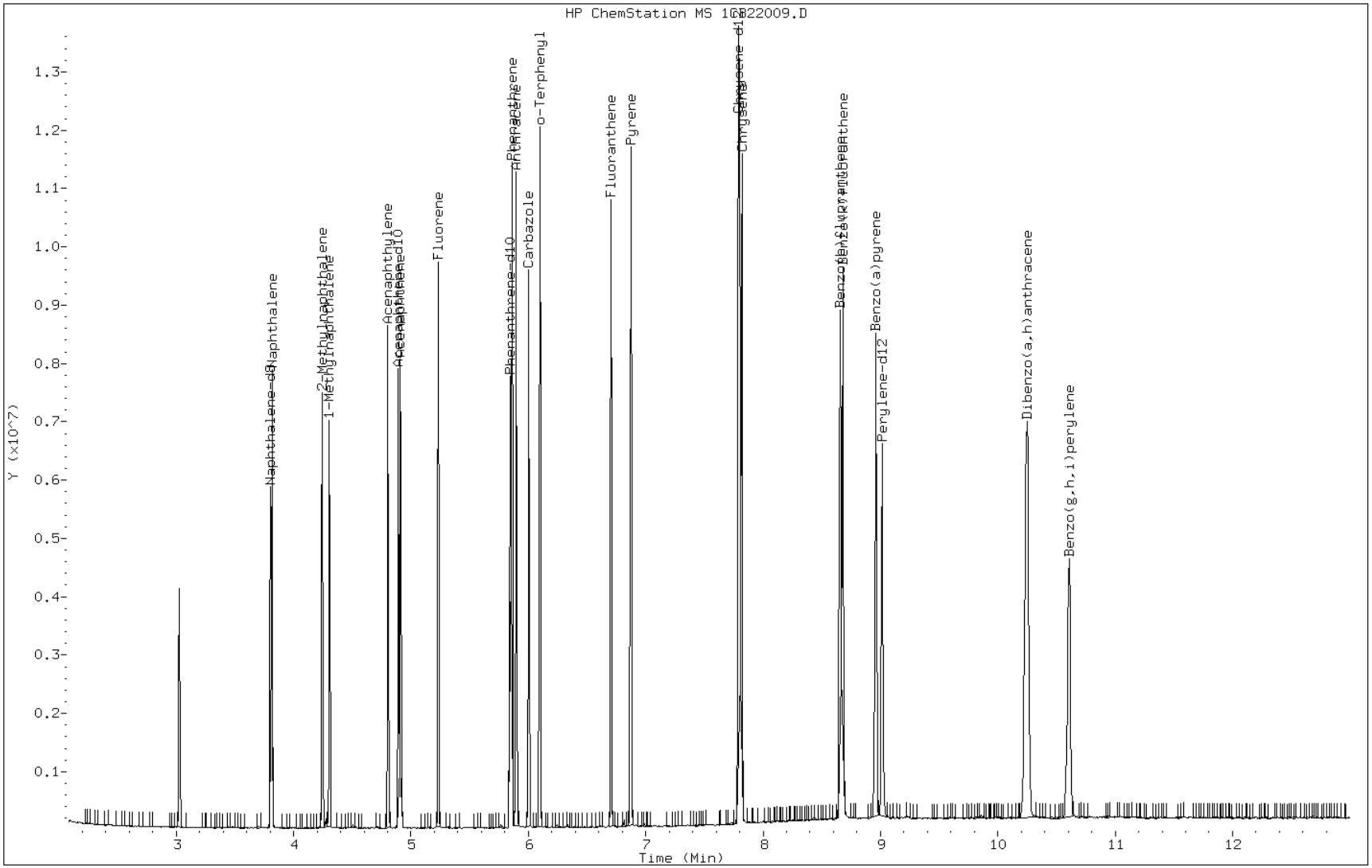
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC



Manual Integration Report

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

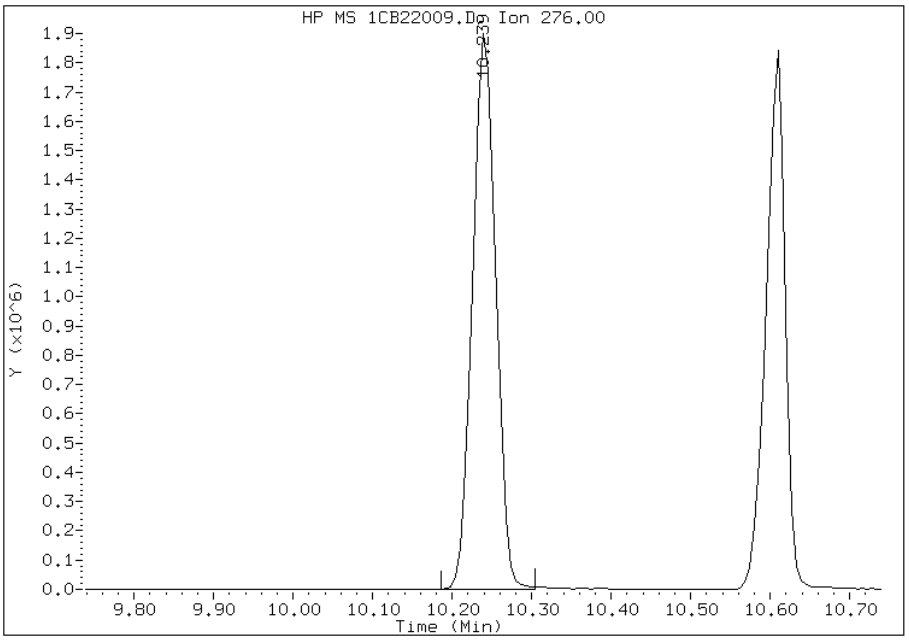
Processing Integration Results

RT: 10.24

Response: 3825990

Amount: 51

Conc: 51



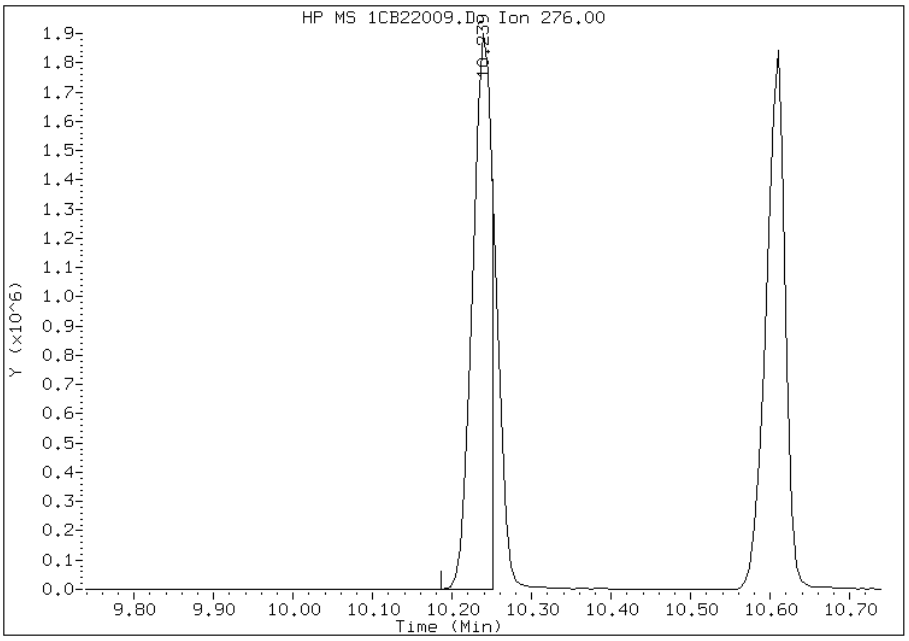
Manual Integration Results

RT: 10.24

Response: 3187834

Amount: 51

Conc: 51



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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Lab Sample ID: ICV 660-135466/10 Calibration Date: 03/15/2013 14:39

Instrument ID: BSMA5973 Calib Start Date: 03/15/2013 12:54

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 03/15/2013 14:25

Lab File ID: 1AC15010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9241	0.8127	0.0000	17600	20000	-12.1	35.0
2-Methylnaphthalene	Lin	0.4655	0.4454	0.0000	16600	20000	-17.0	35.0
1-Methylnaphthalene	Ave	0.5314	0.4701	0.0000	17700	20000	-11.5	35.0
Acenaphthylene	Qua	1.438	1.431	0.0000	18900	20000	-5.6	35.0
Acenaphthene	Qua	0.8158	0.7621	0.0000	17500	20000	-12.4	35.0
Fluorene	Qua	1.029	0.9558	0.0000	18100	20000	-9.3	35.0
Phenanthrene	Ave	1.014	0.8372	0.0000	16500	20000	-17.4	35.0
Anthracene	Ave	0.9830	0.8213	0.0000	16700	20000	-16.5	35.0
Carbazole	Ave	0.8616	0.6430	0.0000	14900	20000	-25.4	35.0
Fluoranthene	Ave	1.002	0.8708	0.0000	17400	20000	-13.1	35.0
Pyrene	Ave	1.147	0.9863	0.0000	17200	20000	-14.0	35.0
Benzo[a]anthracene	Lin	1.289	1.034	0.0000	18000	20000	-10.0	35.0
Chrysene	Ave	1.036	0.8884	0.0000	17200	20000	-14.2	35.0
Benzo[b]fluoranthene	Lin	0.9107	0.8244	0.0000	16200	20000	-19.2	35.0
Benzo[k]fluoranthene	Ave	1.079	0.9294	0.0000	17200	20000	-13.9	35.0
Benzo[a]pyrene	Ave	0.9387	0.6809	0.0000	14500	20000	-27.5	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.8470	0.6791	0.0000	16000	20000	-19.8	35.0
Dibenz(a,h)anthracene	Ave	0.8395	0.7632	0.0000	18200	20000	-9.1	35.0
Benzo[g,h,i]perylene	Ave	0.8526	0.6704	0.0000	15700	20000	-21.4	35.0
o-Terphenyl	Qua	0.5732	0.4541	0.0000	16500	20000	-17.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15010.D
Lab Smp Id: ICV-1448440
Inj Date : 15-MAR-2013 14:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	2.305	2.303	(1.000)	495704	40.0000	
* 6 Acenaphthene-d10	164	3.325	3.324	(1.000)	291089	40.0000	
* 10 Phenanthrene-d10	188	4.250	4.248	(1.000)	473626	40.0000	
$ 14 o-Terphenyl	230	4.522	4.526	(1.064)	107532	16.4780	16.4780
* 18 Chrysene-d12	240	6.242	6.246	(1.000)	433094	40.0000	
* 23 Perylene-d12	264	7.327	7.330	(1.000)	475583	40.0000	
2 Naphthalene	128	2.316	2.314	(1.005)	201427	17.5881	17.5881
3 2-Methylnaphthalene	141	2.716	2.715	(1.178)	110399	16.5942	16.5942
4 1-Methylnaphthalene	142	2.770	2.773	(1.202)	116516	17.6931	17.6931
5 Acenaphthylene	152	3.240	3.238	(0.974)	208291	18.8736	18.8735
7 Acenaphthene	154	3.347	3.345	(1.006)	110915	17.5296	17.5296
9 Fluorene	166	3.651	3.649	(1.098)	139114	18.1415	18.1415
11 Phenanthrene	178	4.266	4.264	(1.004)	198264	16.5166	16.5166
12 Anthracene	178	4.298	4.296	(1.011)	194486	16.7093	16.7093
13 Carbazole	167	4.453	4.456	(1.048)	152266	14.9256	14.9256(M)
15 Fluoranthene	202	5.110	5.113	(1.202)	206210	17.3785	17.3785
16 Pyrene	202	5.275	5.279	(0.845)	213575	17.1991	17.1990
17 Benzo(a)anthracene	228	6.237	6.235	(0.999)	223832	17.9907	17.9907

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
19 Chrysene	228	6.258	6.262	(1.003)	192383	17.1506	17.1505
20 Benzo(b)fluoranthene	252	7.049	7.052	(0.962)	196044	16.1625	16.1625
21 Benzo(k)fluoranthene	252	7.070	7.074	(0.965)	221006	17.2278	17.2278
22 Benzo(a)pyrene	252	7.279	7.282	(0.993)	161910	14.5068	14.5068
24 Indeno(1,2,3-cd)pyrene	276	8.032	8.035	(1.096)	161474	16.0342	16.0342(M)
25 Dibenzo(a,h)anthracene	278	8.043	8.045	(1.098)	181488	18.1835	18.1835
26 Benzo(g,h,i)perylene	276	8.214	8.222	(1.121)	159418	15.7263	15.7262

QC Flag Legend

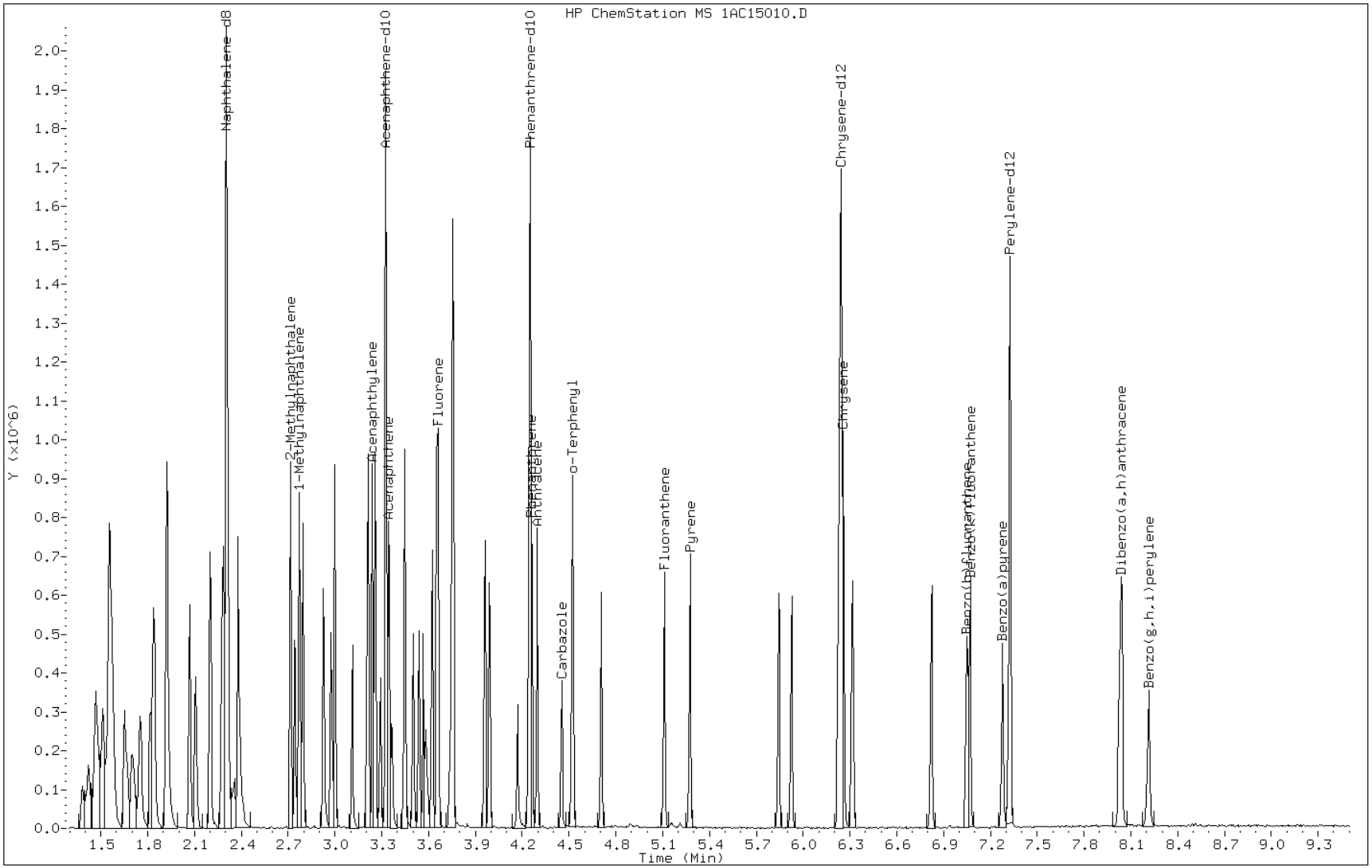
M - Compound response manually integrated.

Data File: 1AC15010.D

Date: 15-MAR-2013 14:39

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1AC15010.D
Inj. Date and Time: 15-MAR-2013 14:39
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 03/15/2013

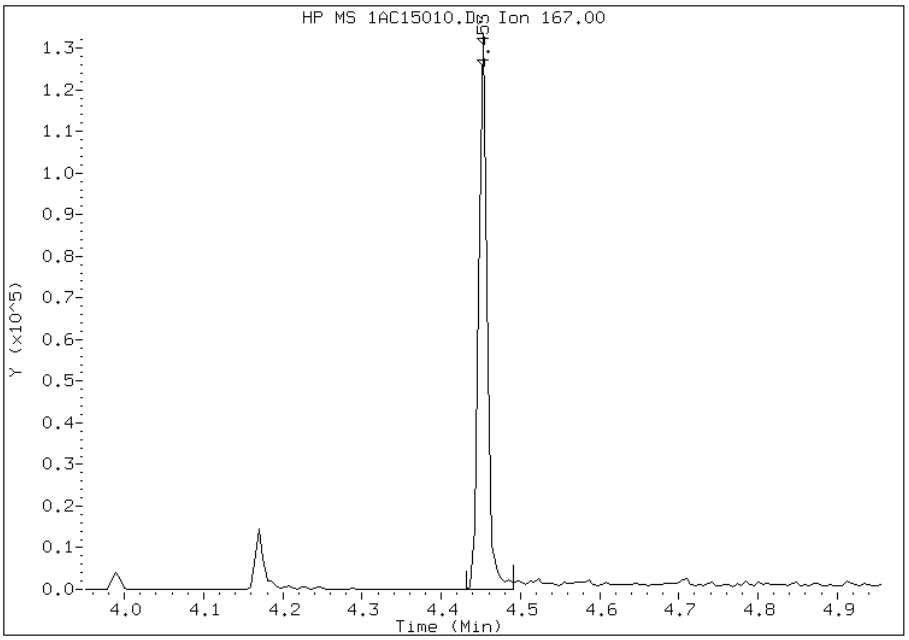
Processing Integration Results

RT: 4.45

Response: 95852

Amount: 9

Conc: 9



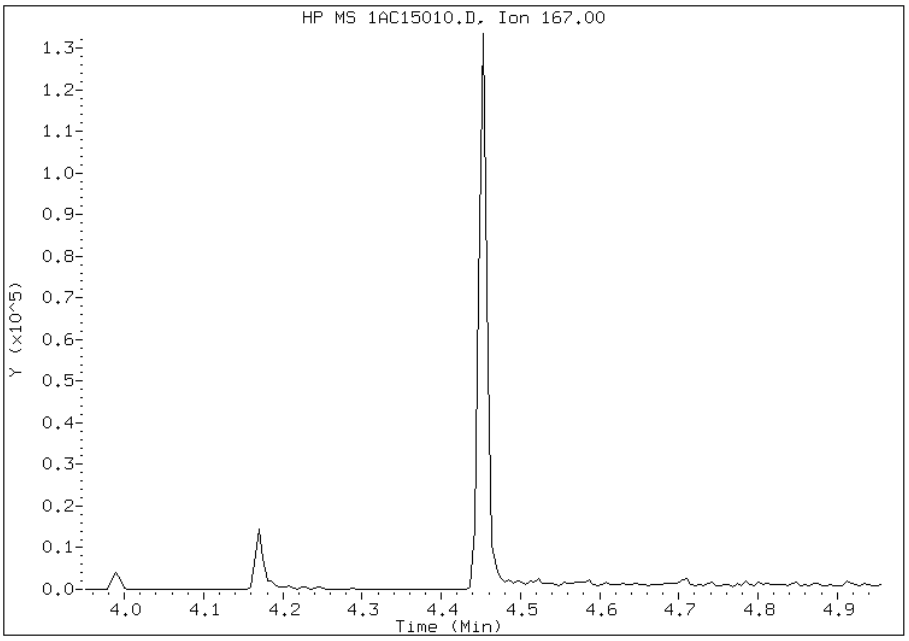
Manual Integration Results

RT: 4.45

Response: 152266

Amount: 15

Conc: 15



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 15:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15010.D
Inj. Date and Time: 15-MAR-2013 14:39
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

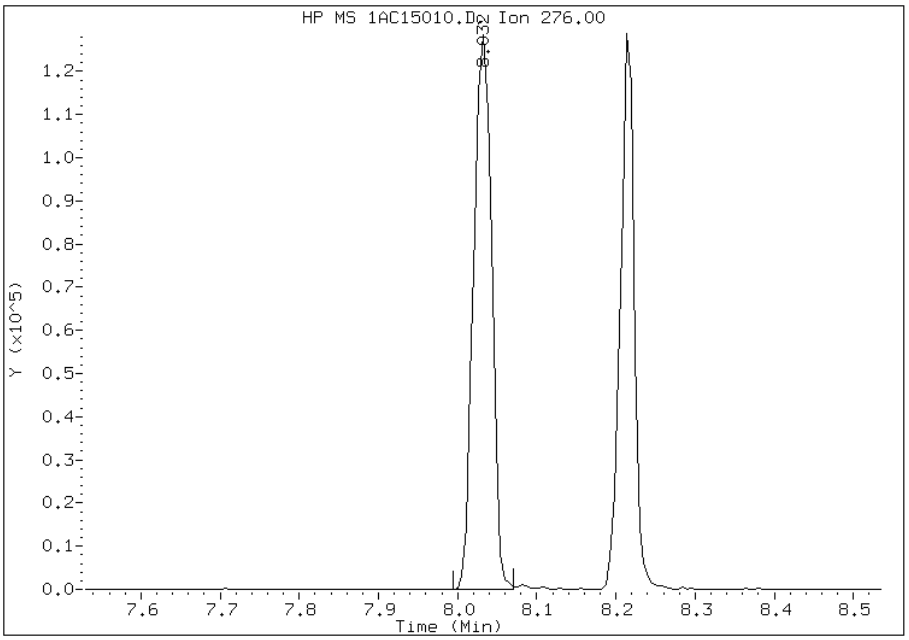
Processing Integration Results

RT: 8.03

Response: 202054

Amount: 20

Conc: 20



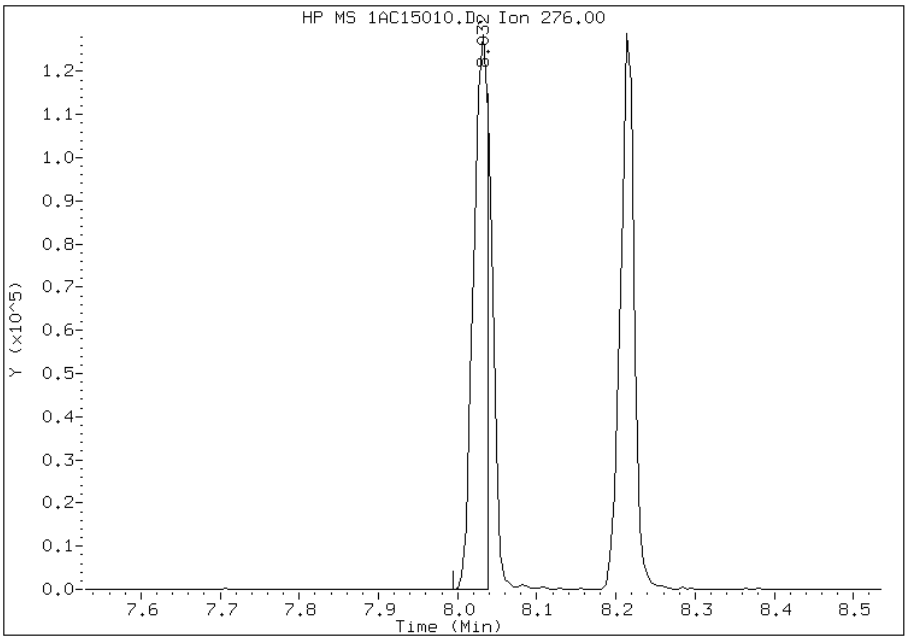
Manual Integration Results

RT: 8.03

Response: 161474

Amount: 16

Conc: 16



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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Lab Sample ID: CCVIS 660-135850/3 Calibration Date: 03/26/2013 11:28

Instrument ID: BSMA5973 Calib Start Date: 03/15/2013 12:54

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 03/15/2013 14:25

Lab File ID: 1AC26003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9241	0.9131	0.0000	19800	20000	-1.2	20.0
2-Methylnaphthalene	Lin	0.4655	0.4916	0.0000	18200	20000	-8.9	20.0
1-Methylnaphthalene	Ave	0.5314	0.5338	0.0000	20100	20000	0.4	20.0
Acenaphthylene	Qua	1.438	1.382	0.0000	18300	20000	-8.6	20.0
Acenaphthene	Qua	0.8158	0.7886	0.0000	18100	20000	-9.6	20.0
Fluorene	Qua	1.029	0.9897	0.0000	18700	20000	-6.4	20.0
Phenanthrene	Ave	1.014	0.9698	0.0000	19100	20000	-4.3	20.0
Anthracene	Ave	0.9830	0.8829	0.0000	18000	20000	-10.2	20.0
Carbazole	Ave	0.8616	0.7742	0.0000	18000	20000	-10.1	20.0
Fluoranthene	Ave	1.002	0.9577	0.0000	19100	20000	-4.4	20.0
Pyrene	Ave	1.147	1.005	0.0000	17500	20000	-12.3	20.0
Benzo[a]anthracene	Lin	1.289	1.066	0.0000	18600	20000	-7.2	20.0
Chrysene	Ave	1.036	0.9874	0.0000	19100	20000	-4.7	20.0
Benzo[b]fluoranthene	Lin	0.9107	0.9212	0.0000	17900	20000	-10.4	20.0
Benzo[k]fluoranthene	Ave	1.079	1.069	0.0000	19800	20000	-0.9	20.0
Benzo[a]pyrene	Ave	0.9387	0.9058	0.0000	19300	20000	-3.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8470	0.8163	0.0000	19300	20000	-3.6	20.0
Dibenz(a,h)anthracene	Ave	0.8395	0.8601	0.0000	20500	20000	2.5	20.0
Benzo[g,h,i]perylene	Ave	0.8526	0.8025	0.0000	18800	20000	-5.9	20.0
o-Terphenyl	Qua	0.5732	0.5280	0.0000	18900	20000	-5.4	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 26-MAR-2013 11:28
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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	2.272	2.272	(1.000)	509128	40.0000	(H)
* 6 Acenaphthene-d10	164	3.287	3.287	(1.000)	363732	40.0000	(H)
* 10 Phenanthrene-d10	188	4.205	4.205	(1.000)	582610	40.0000	
$ 14 o-Terphenyl	230	4.478	4.478	(1.065)	153815	20.0000	18.9101
* 18 Chrysene-d12	240	6.193	6.193	(1.000)	582279	40.0000	(H)
* 23 Perylene-d12	264	7.272	7.272	(1.000)	536475	40.0000	(H)
2 Naphthalene	128	2.282	2.282	(1.005)	232447	20.0000	19.7615(H)
3 2-Methylnaphthalene	141	2.683	2.683	(1.181)	125138	20.0000	18.2224(H)
4 1-Methylnaphthalene	142	2.736	2.736	(1.205)	135878	20.0000	20.0892(H)
5 Acenaphthylene	152	3.201	3.201	(0.974)	251313	20.0000	18.2805(H)
7 Acenaphthene	154	3.308	3.308	(1.007)	143410	20.0000	18.0759
9 Fluorene	166	3.612	3.612	(1.099)	179994	20.0000	18.7170(H)
11 Phenanthrene	178	4.221	4.221	(1.004)	282504	20.0000	19.1319
12 Anthracene	178	4.253	4.253	(1.011)	257184	20.0000	17.9627
13 Carbazole	167	4.408	4.408	(1.048)	225529	20.0000	17.9717
15 Fluoranthene	202	5.065	5.065	(1.204)	278971	20.0000	19.1126
16 Pyrene	202	5.226	5.226	(0.844)	292698	20.0000	17.5317(H)
17 Benzo(a)anthracene	228	6.177	6.177	(0.997)	310452	20.0000	18.5544(H)
19 Chrysene	228	6.209	6.209	(1.003)	287456	20.0000	19.0604(H)
20 Benzo(b)fluoranthene	252	6.994	6.994	(0.962)	247107	20.0000	17.9188(H)
21 Benzo(k)fluoranthene	252	7.015	7.015	(0.965)	286853	20.0000	19.8226(H)
22 Benzo(a)pyrene	252	7.224	7.224	(0.993)	242981	20.0000	19.2995(H)
24 Indeno(1,2,3-cd)pyrene	276	7.972	7.972	(1.096)	218959	20.0000	19.2745(MH)
25 Dibenzo(a,h)anthracene	278	7.982	7.982	(1.098)	230704	20.0000	20.4909(H)
26 Benzo(g,h,i)perylene	276	8.148	8.148	(1.120)	215259	20.0000	18.8246(H)

QC Flag Legend

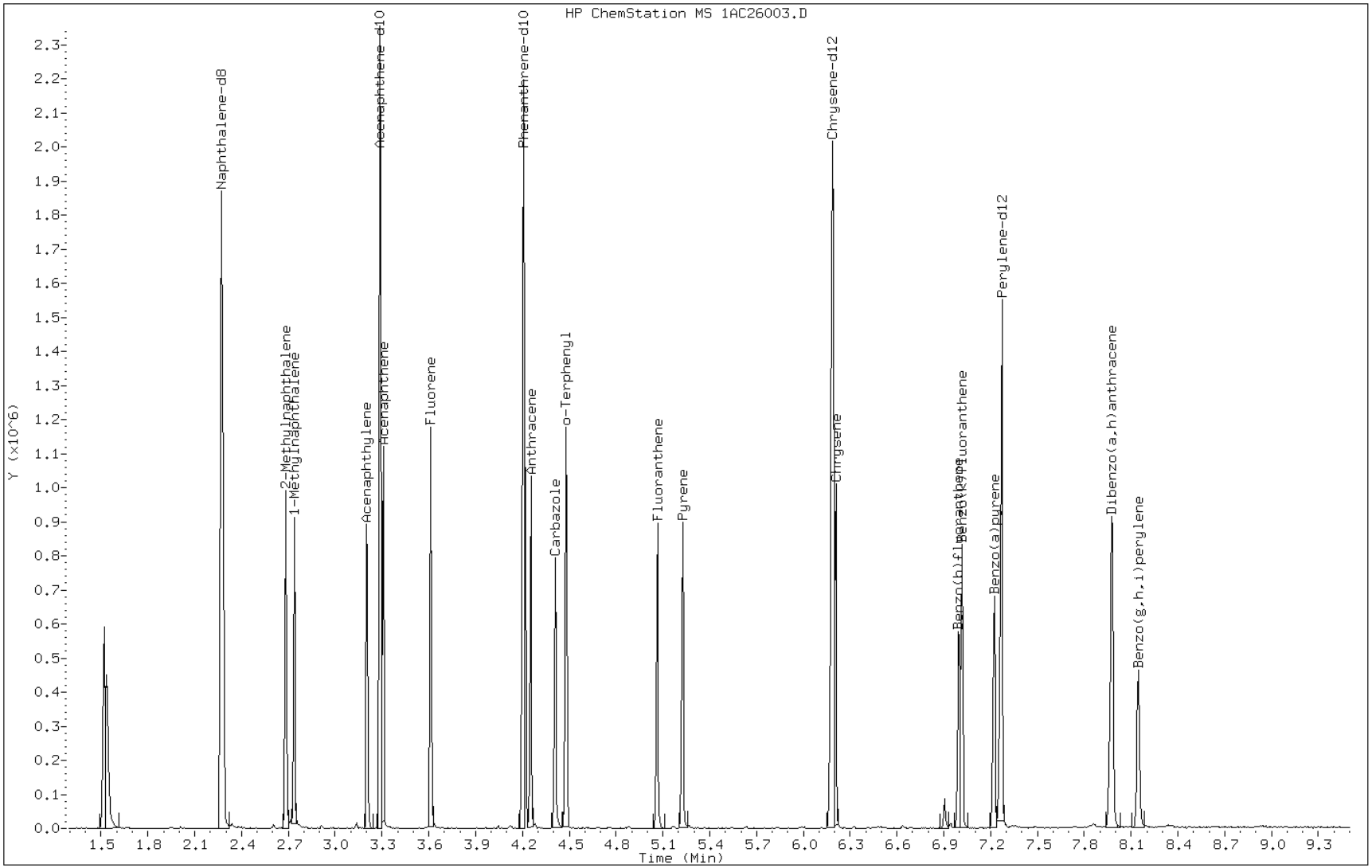
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AC26003.D

Date: 26-MAR-2013 11:28

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1AC26003.D
Inj. Date and Time: 26-MAR-2013 11:28
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/27/2013

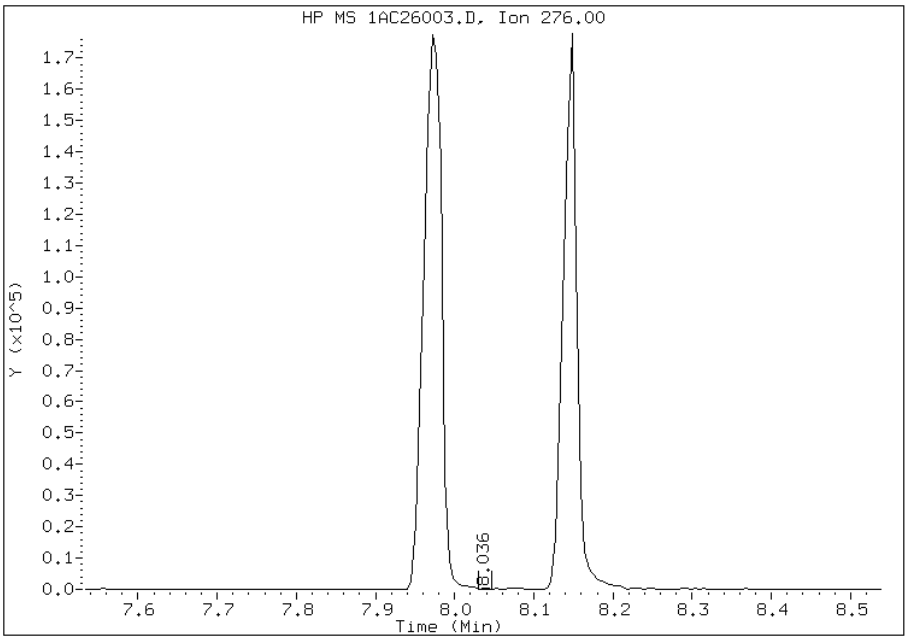
Processing Integration Results

RT: 8.04

Response: 205

Amount: 0

Conc: 0



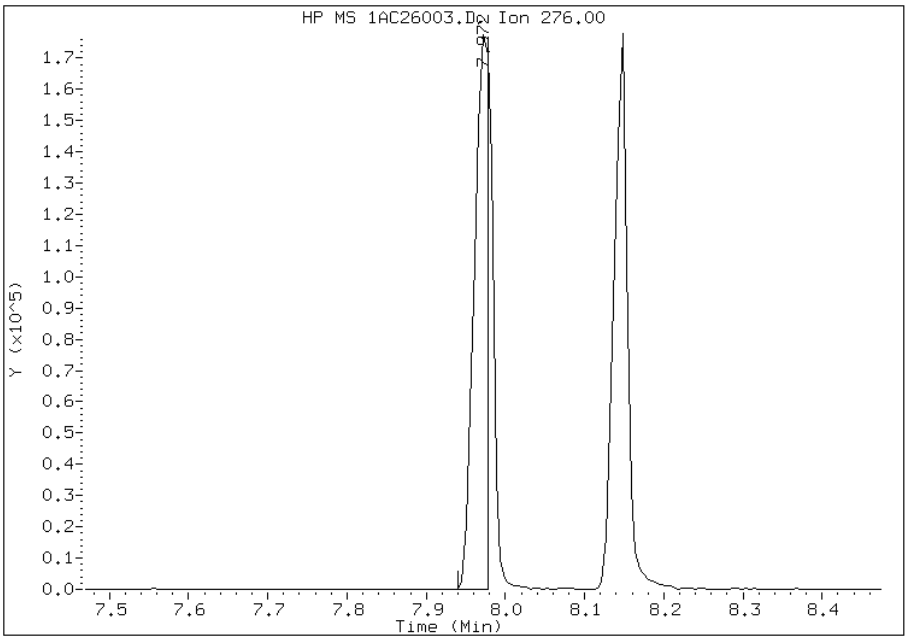
Manual Integration Results

RT: 7.97

Response: 218959

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 26-Mar-2013 11:41
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

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

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

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

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

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

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

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

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

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

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

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22010.D

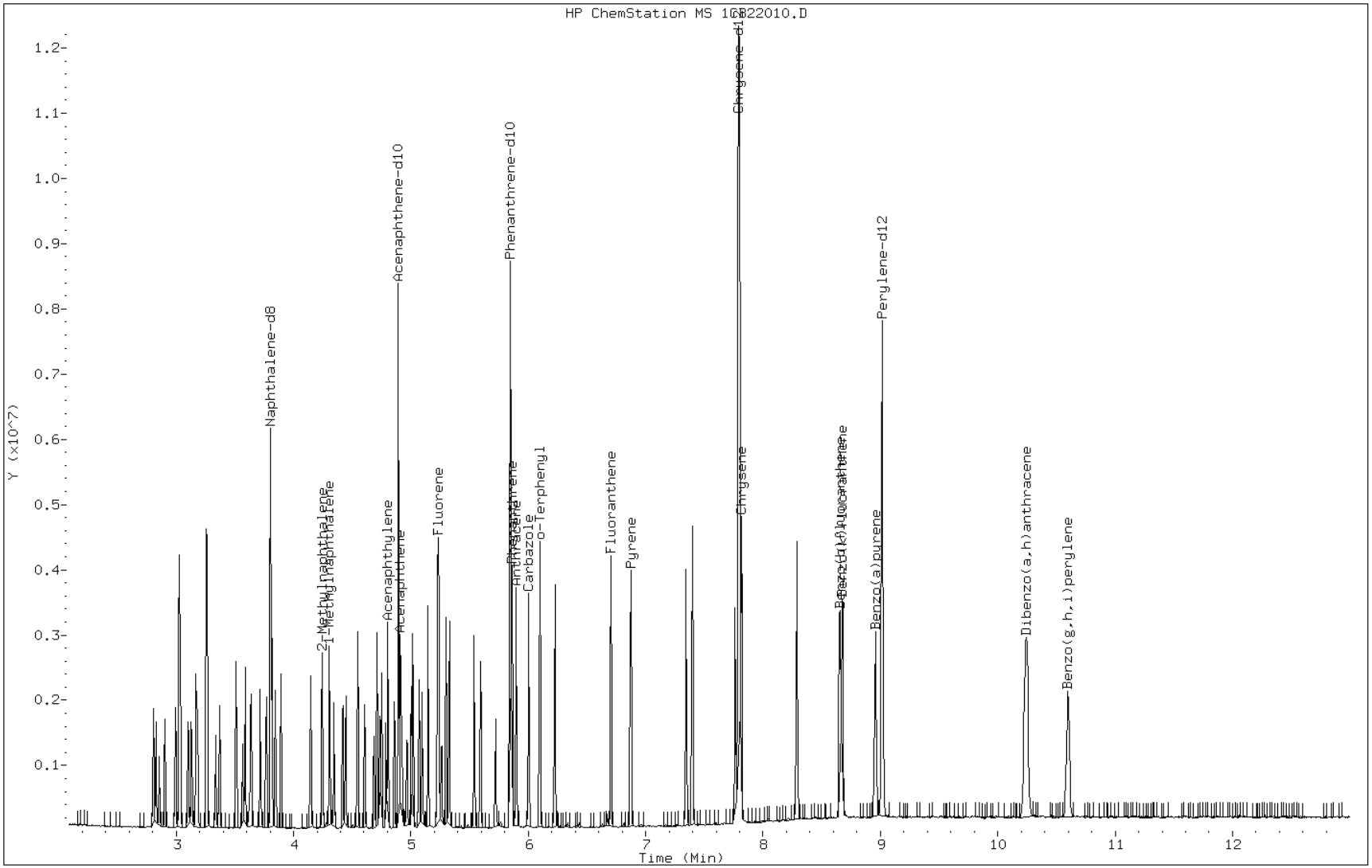
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

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

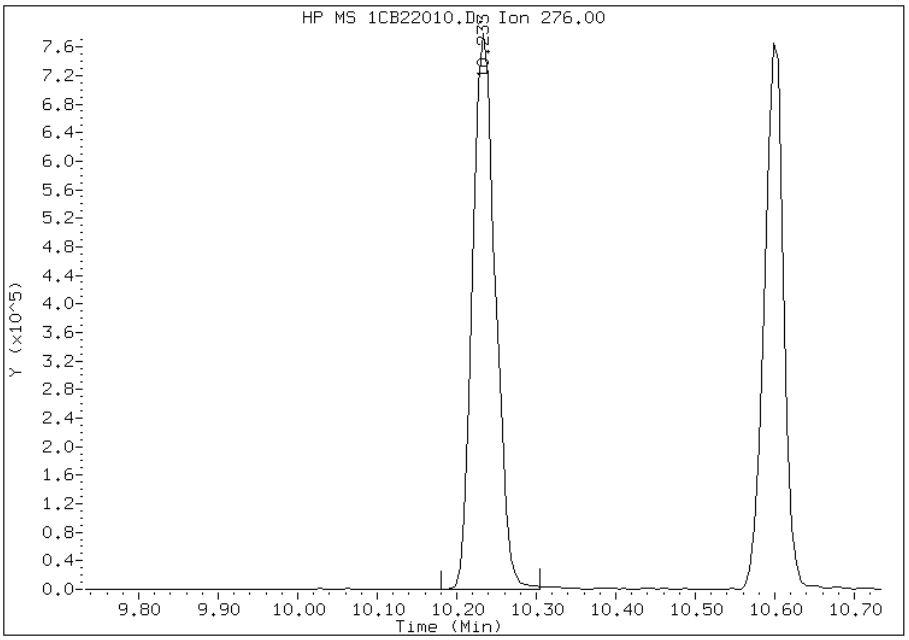
Processing Integration Results

RT: 10.23

Response: 1550656

Amount: 21

Conc: 21



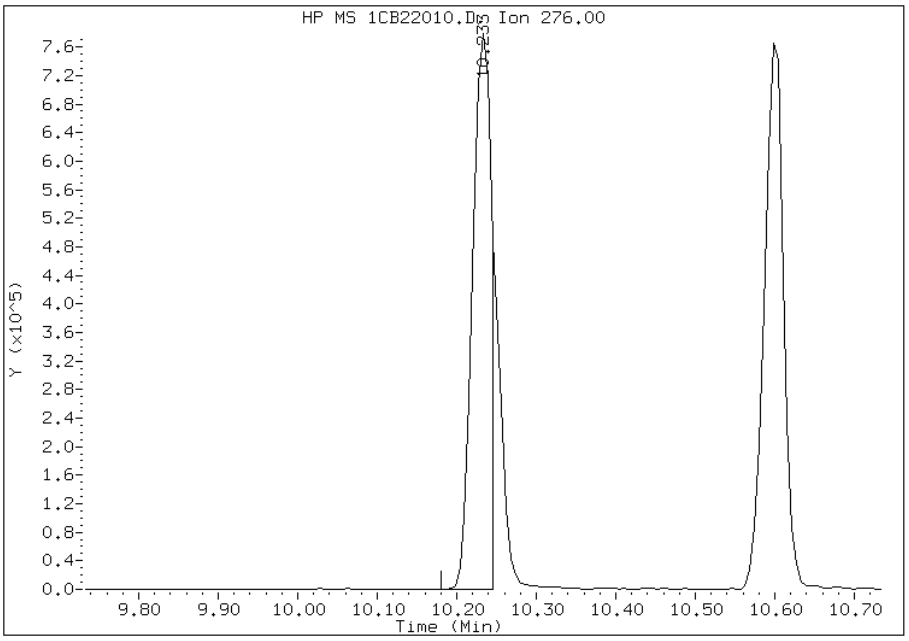
Manual Integration Results

RT: 10.23

Response: 1271997

Amount: 18

Conc: 18



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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Lab Sample ID: CCVIS 660-135753/3 Calibration Date: 03/25/2013 12:33

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

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

Lab File ID: 1CC25003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.093	0.0000	21000	20000	5.0	20.0
2-Methylnaphthalene	Ave	0.6946	0.7167	0.0000	20600	20000	3.2	20.0
1-Methylnaphthalene	Ave	0.6326	0.6680	0.0000	21100	20000	5.6	20.0
Acenaphthylene	Ave	1.613	1.592	0.0000	19700	20000	-1.3	20.0
Acenaphthene	Ave	1.002	0.9420	0.0000	18800	20000	-6.0	20.0
Fluorene	Ave	1.268	1.281	0.0000	20200	20000	1.1	20.0
Phenanthrene	Ave	1.157	1.117	0.0000	19300	20000	-3.4	20.0
Anthracene	Ave	1.131	1.161	0.0000	20500	20000	2.6	20.0
Carbazole	Ave	1.006	0.9810	0.0000	19500	20000	-2.4	20.0
Fluoranthene	Ave	1.267	1.293	0.0000	20400	20000	2.1	20.0
Pyrene	Ave	1.075	1.120	0.0000	20800	20000	4.2	20.0
Benzo[a]anthracene	Ave	1.154	1.076	0.0000	18600	20000	-6.8	20.0
Chrysene	Ave	1.155	1.128	0.0000	19500	20000	-2.4	20.0
Benzo[b]fluoranthene	Ave	1.045	1.056	0.0000	20200	20000	1.0	20.0
Benzo[k]fluoranthene	Ave	1.072	1.098	0.0000	20500	20000	2.4	20.0
Benzo[a]pyrene	Ave	1.015	1.034	0.0000	20400	20000	1.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9327	0.0000	19500	20000	-2.4	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8765	0.0000	18800	20000	-6.2	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9389	0.0000	18800	20000	-6.0	20.0
o-Terphenyl	Ave	0.6039	0.6227	0.0000	20600	20000	3.1	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\1CC25003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 25-MAR-2013 12:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\a-bFASTPAHi-m.m
Meth Date : 25-Mar-2013 12:48 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.733	3.733	(1.000)	865252	40.0000	(H)
* 6 Acenaphthene-d10	164	4.821	4.821	(1.000)	707658	40.0000	(H)
* 10 Phenanthrene-d10	188	5.768	5.768	(1.000)	1324682	40.0000	(H)
$ 14 o-Terphenyl	230	6.021	6.021	(1.044)	412404	20.0000	20.6197(H)
* 18 Chrysene-d12	240	7.715	7.715	(1.000)	1661991	40.0000	(H)
* 23 Perylene-d12	264	8.898	8.898	(1.000)	1628045	40.0000	(H)
2 Naphthalene	128	3.745	3.745	(1.003)	472999	20.0000	20.9981(H)
3 2-Methylnaphthalene	142	4.174	4.174	(1.118)	310052	20.0000	20.6348(H)
4 1-Methylnaphthalene	142	4.233	4.233	(1.134)	289003	20.0000	21.1185(H)
5 Acenaphthylene	152	4.733	4.733	(0.982)	563257	20.0000	19.7422(H)
7 Acenaphthene	154	4.839	4.839	(1.004)	333298	20.0000	18.7950(H)
9 Fluorene	166	5.162	5.162	(1.071)	453380	20.0000	20.2157(H)
11 Phenanthrene	178	5.786	5.786	(1.003)	739809	20.0000	19.3141(H)
12 Anthracene	178	5.821	5.821	(1.009)	768745	20.0000	20.5211(H)
13 Carbazole	167	5.927	5.927	(1.028)	649728	20.0000	19.5112(H)
15 Fluoranthene	202	6.621	6.621	(1.148)	856669	20.0000	20.4224(H)
16 Pyrene	202	6.792	6.792	(0.880)	931042	20.0000	20.8456(H)
17 Benzo(a)anthracene	228	7.703	7.703	(0.998)	894134	20.0000	18.6401(H)
19 Chrysene	228	7.733	7.733	(1.002)	937193	20.0000	19.5231(H)
20 Benzo(b)fluoranthene	252	8.550	8.550	(0.961)	859762	20.0000	20.2074(H)
21 Benzo(k)fluoranthene	252	8.574	8.574	(0.964)	893769	20.0000	20.4774(H)
22 Benzo(a)pyrene	252	8.845	8.845	(0.994)	841478	20.0000	20.3614(H)
24 Indeno(1,2,3-cd)pyrene	276	10.062	10.062	(1.131)	759255	20.0000	19.5296(MH)
25 Dibenzo(a,h)anthracene	278	10.080	10.080	(1.133)	713468	20.0000	18.7620(H)
26 Benzo(g,h,i)perylene	276	10.415	10.415	(1.171)	764253	20.0000	18.7922(H)

QC Flag Legend

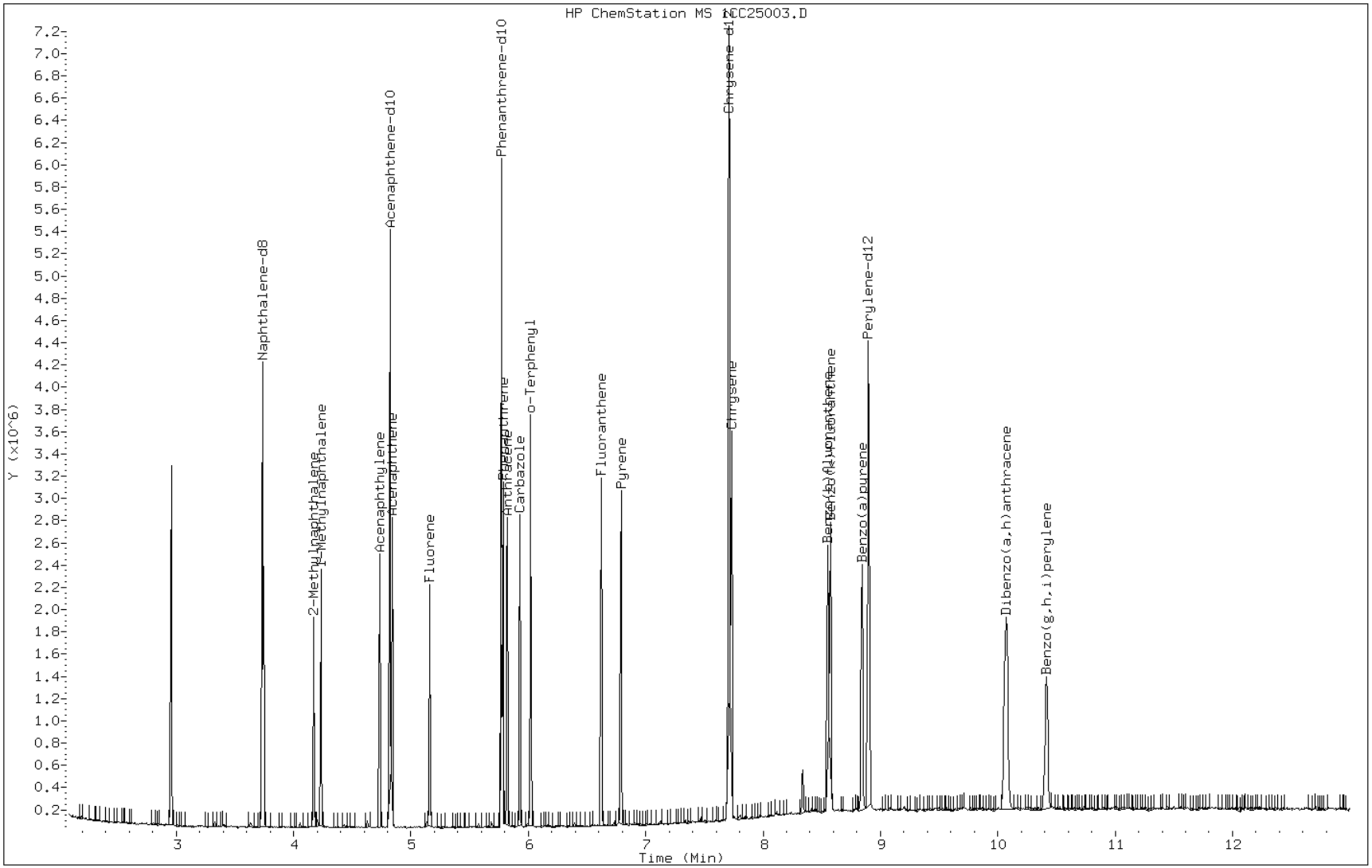
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CC25003.D

Date: 25-MAR-2013 12:33

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CC25003.D
Inj. Date and Time: 25-MAR-2013 12:33
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

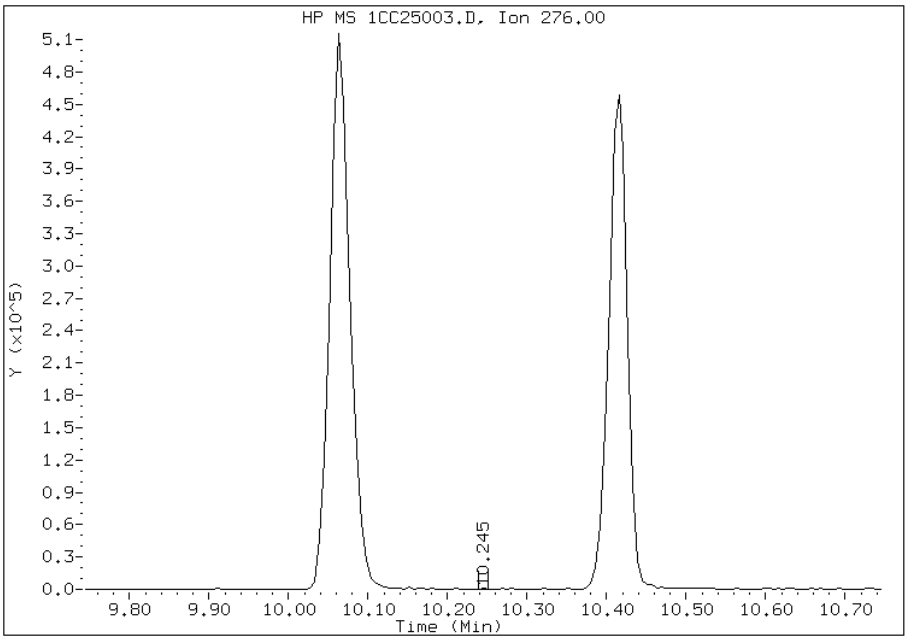
Processing Integration Results

RT: 10.24

Response: 357

Amount: 0

Conc: 0



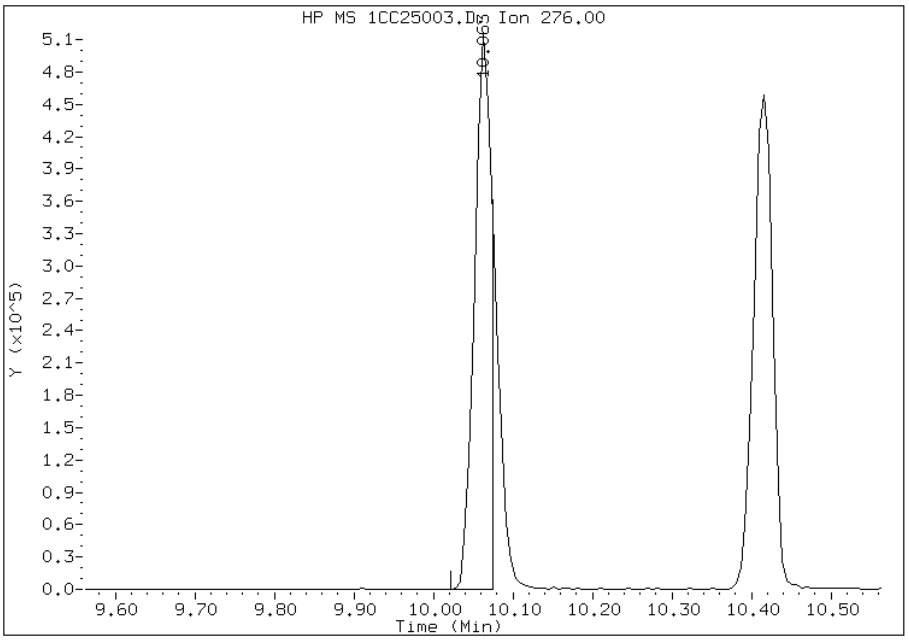
Manual Integration Results

RT: 10.06

Response: 759255

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:50
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Lab Sample ID: CCVIS 660-135830/3 Calibration Date: 03/27/2013 10:35

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

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

Lab File ID: 1CC27003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.070	0.0000	20600	20000	2.8	20.0
2-Methylnaphthalene	Ave	0.6946	0.6931	0.0000	20000	20000	-0.2	20.0
1-Methylnaphthalene	Ave	0.6326	0.6567	0.0000	20800	20000	3.8	20.0
Acenaphthylene	Ave	1.613	1.678	0.0000	20800	20000	4.0	20.0
Acenaphthene	Ave	1.002	0.9708	0.0000	19400	20000	-3.1	20.0
Fluorene	Ave	1.268	1.250	0.0000	19700	20000	-1.4	20.0
Phenanthrene	Ave	1.157	1.115	0.0000	19300	20000	-3.6	20.0
Anthracene	Ave	1.131	1.111	0.0000	19600	20000	-1.8	20.0
Carbazole	Ave	1.006	1.004	0.0000	20000	20000	-0.2	20.0
Fluoranthene	Ave	1.267	1.264	0.0000	20000	20000	-0.2	20.0
Pyrene	Ave	1.075	1.116	0.0000	20800	20000	3.8	20.0
Benzo[a]anthracene	Ave	1.154	1.067	0.0000	18500	20000	-7.6	20.0
Chrysene	Ave	1.155	1.108	0.0000	19200	20000	-4.1	20.0
Benzo[b]fluoranthene	Ave	1.045	1.036	0.0000	19800	20000	-0.9	20.0
Benzo[k]fluoranthene	Ave	1.072	1.141	0.0000	21300	20000	6.4	20.0
Benzo[a]pyrene	Ave	1.015	1.040	0.0000	20500	20000	2.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	1.019	0.0000	21300	20000	6.7	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.9194	0.0000	19700	20000	-1.6	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9809	0.0000	19600	20000	-1.8	20.0
o-Terphenyl	Ave	0.6039	0.5973	0.0000	19800	20000	-1.1	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 27-MAR-2013 10:35
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.727	3.727	(1.000)	740866	40.0000	(H)
* 6 Acenaphthene-d10	164	4.815	4.815	(1.000)	575327	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.762	(1.000)	1092531	40.0000	(H)
$ 14 o-Terphenyl	230	6.015	6.015	(1.044)	326267	20.0000	19.7793(H)
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1389214	40.0000	(H)
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1427635	40.0000	(H)
2 Naphthalene	128	3.739	3.739	(1.003)	396388	20.0000	20.5515(H)
3 2-Methylnaphthalene	142	4.168	4.168	(1.118)	256741	20.0000	19.9555(H)
4 1-Methylnaphthalene	142	4.227	4.227	(1.134)	243257	20.0000	20.7601(H)
5 Acenaphthylene	152	4.727	4.727	(0.982)	482667	20.0000	20.8087
7 Acenaphthene	154	4.833	4.833	(1.004)	279269	20.0000	19.3705
9 Fluorene	166	5.157	5.157	(1.071)	359663	20.0000	19.7257
11 Phenanthrene	178	5.780	5.780	(1.003)	609016	20.0000	19.2780(H)
12 Anthracene	178	5.815	5.815	(1.009)	606997	20.0000	19.6464(H)
13 Carbazole	167	5.921	5.921	(1.028)	548301	20.0000	19.9640(H)
15 Fluoranthene	202	6.615	6.615	(1.148)	690237	20.0000	19.9512(H)
16 Pyrene	202	6.786	6.786	(0.881)	775208	20.0000	20.7646(H)
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	741118	20.0000	18.4838(H)
19 Chrysene	228	7.727	7.727	(1.003)	769393	20.0000	19.1746(H)
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	739836	20.0000	19.8297(H)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	814806	20.0000	21.2889(H)
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	742319	20.0000	20.4836(H)
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.131)	727254	20.0000	21.3325(MH)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.133)	656298	20.0000	19.6814(H)
26 Benzo(g,h,i)perylene	276	10.397	10.397	(1.170)	700171	20.0000	19.6333(H)

QC Flag Legend

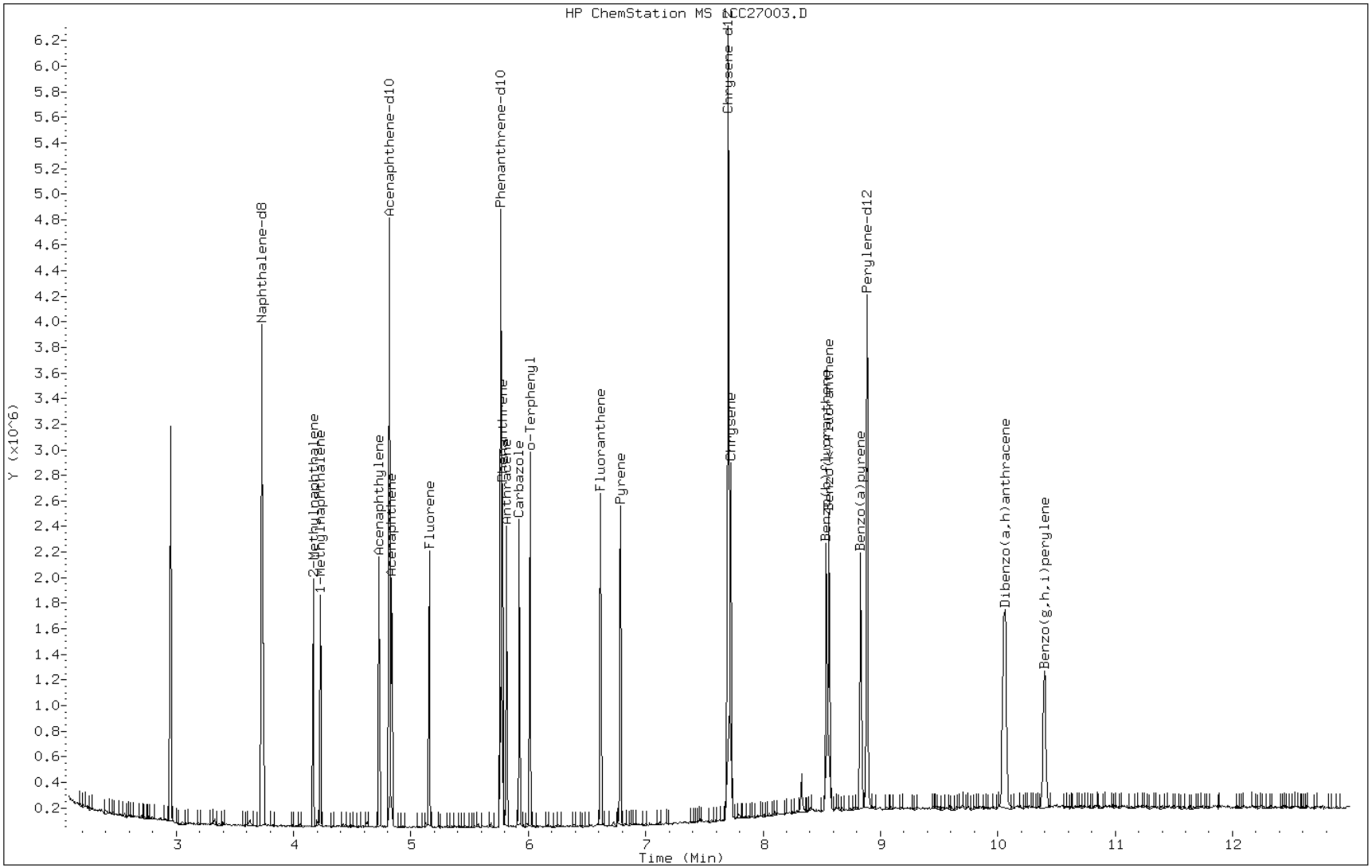
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CC27003.D

Date: 27-MAR-2013 10:35

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CC27003.D
Inj. Date and Time: 27-MAR-2013 10:35
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/27/2013

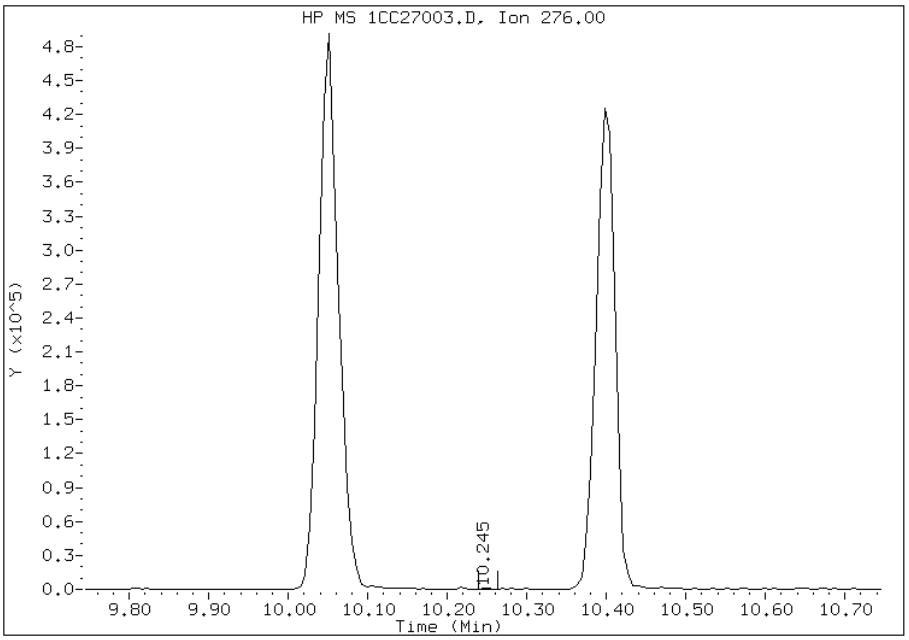
Processing Integration Results

RT: 10.25

Response: 881

Amount: 0

Conc: 0



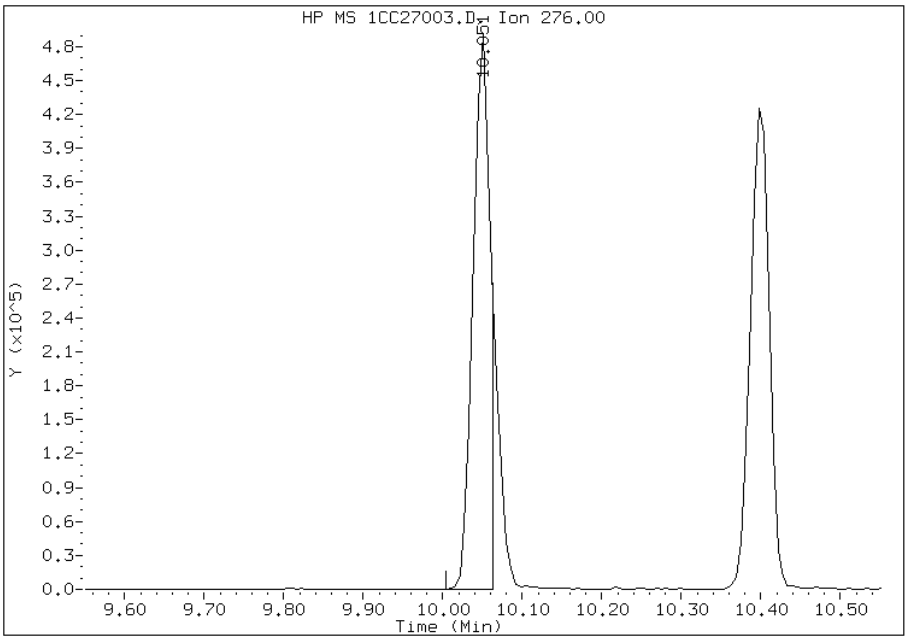
Manual Integration Results

RT: 10.05

Response: 727254

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 27-Mar-2013 10:50
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 15-MAR-2013 12:38
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.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

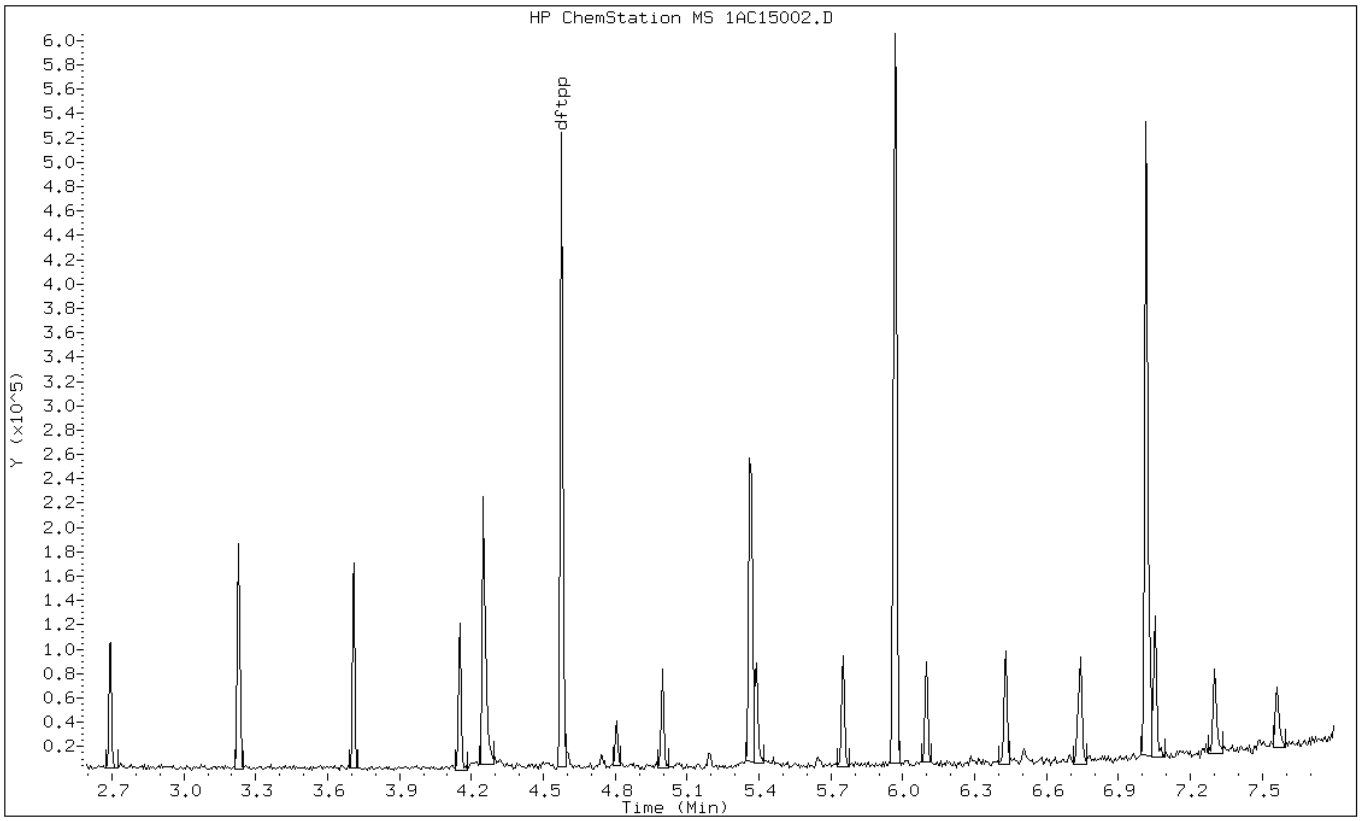
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.576	4.928	-0.352	198	29405			50.00- 0.00	100.00
4.576	4.928	-0.352	51	21805			10.00- 80.00	74.15
4.576	4.928	-0.352	68	259			0.00- 2.00	1.46
4.576	4.928	-0.352	69	17703			0.00- 0.00	60.20
4.576	4.928	-0.352	70	119			0.00- 2.00	0.67
4.576	4.928	-0.352	127	14373			10.00- 80.00	48.88
4.576	4.928	-0.352	197	110			0.00- 2.00	0.37
4.576	4.928	-0.352	442	16982			50.00- 0.00	57.75
4.576	4.928	-0.352	199	1936			5.00- 9.00	6.58
4.576	4.928	-0.352	275	7091			10.00- 60.00	24.11
4.576	4.928	-0.352	365	1588			1.00- 0.00	5.40
4.576	4.928	-0.352	441	2270			0.01- 99.99	66.76
4.576	4.928	-0.352	443	3400			15.00- 24.00	20.02

Data File: 1AC15002.D

Date: 15-MAR-2013 12:38

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



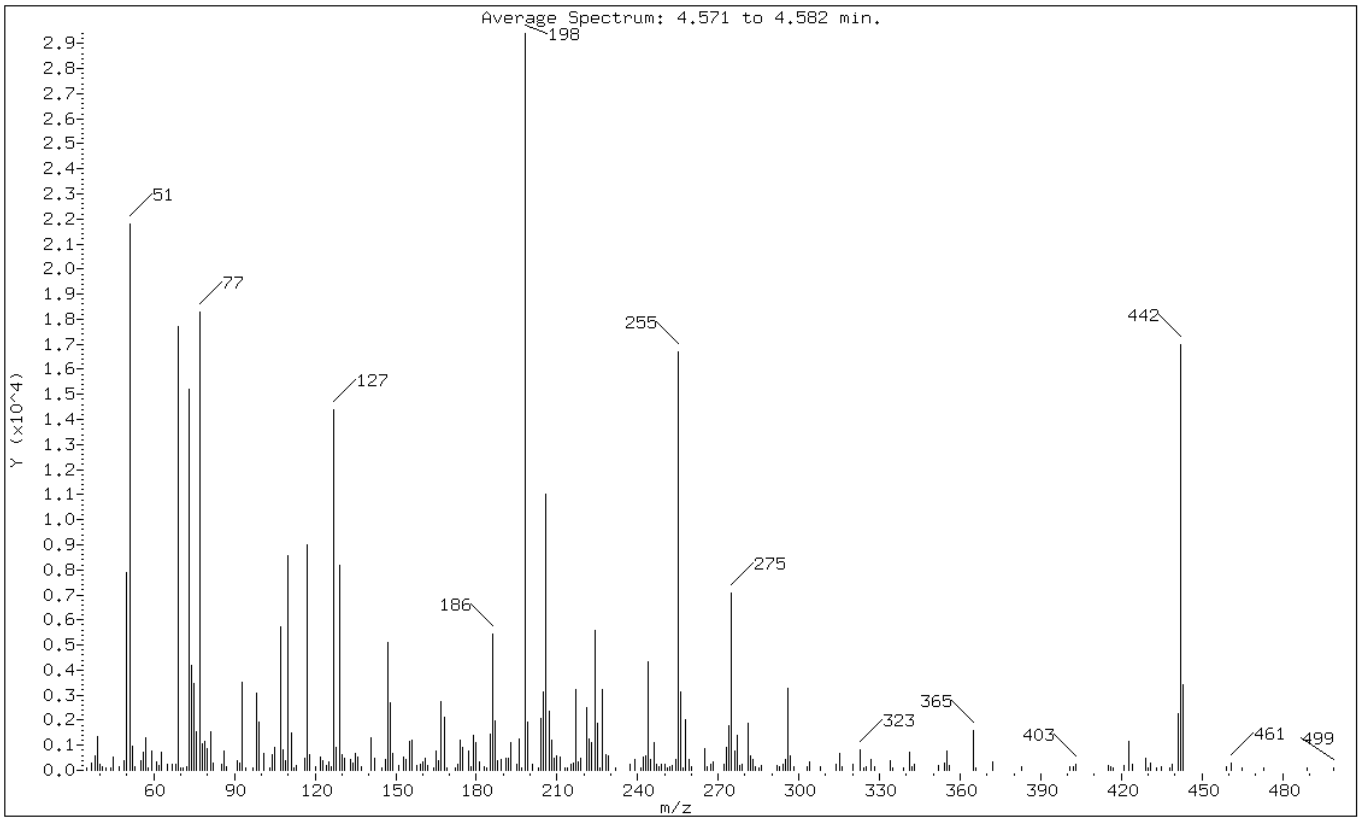
Data File: 1AC15002.D

Date: 15-MAR-2013 12:38

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	74.15
68	Less than 2.00% of mass 69	0.88 (1.46)
69	Mass 69 relative abundance	60.20
70	Less than 2.00% of mass 69	0.40 (0.67)
127	10.00 - 80.00% of mass 198	48.88
197	Less than 2.00% of mass 198	0.37
442	Greater than 50.00% of mass 198	57.75
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 60.00% of mass 198	24.11
365	Greater than 1.00% of mass 198	5.40
441	Present, but less than mass 443	7.72
443	15.00 - 24.00% of mass 442	11.56 (20.02)

Data File: 1AC15002.D

Date: 15-MAR-2013 12:38

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15002.D
Spectrum: Average Spectrum: 4.571 to 4.582 min.
Location of Maximum: 198.00
Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	85	120.00	163	203.00	115	285.00	106
37.00	306	122.00	547	204.00	2072	286.00	202
38.00	562	123.00	402	205.00	3135	292.00	179
39.00	1366	124.00	186	206.00	11017	293.00	164
40.00	219	125.00	359	207.00	2371	294.00	253
41.00	145	126.00	125	208.00	1184	295.00	431
42.00	104	127.00	14373	209.00	493	296.00	3259
44.00	111	128.00	931	210.00	592	297.00	601
45.00	514	129.00	8181	211.00	507	298.00	158
47.00	153	130.00	641	213.00	103	303.00	163
49.00	409	131.00	484	214.00	106	304.00	353
50.00	7874	133.00	441	215.00	246	308.00	126
51.00	21800	134.00	297	216.00	266	314.00	232
52.00	976	135.00	686	217.00	3206	315.00	691
53.00	134	136.00	518	218.00	342	316.00	143
55.00	389	137.00	163	219.00	478	320.00	252
56.00	727	141.00	1291	221.00	2523	323.00	809
57.00	1307	142.00	492	222.00	1268	324.00	92
58.00	107	145.00	94	223.00	1098	325.00	126
59.00	793	146.00	454	224.00	5572	327.00	416
61.00	323	147.00	5081	225.00	1855	328.00	128
62.00	191	148.00	2688	226.00	100	334.00	404
63.00	726	149.00	664	227.00	3220	335.00	101
65.00	254	151.00	171	228.00	620	339.00	85
67.00	256	153.00	543	229.00	562	341.00	733
68.00	259	154.00	417	232.00	90	342.00	128
69.00	17696	155.00	1172	237.00	244	343.00	219
70.00	119	156.00	1192	239.00	420	352.00	194
71.00	92	158.00	173	241.00	115	354.00	273
72.00	145	159.00	247	242.00	506	355.00	787
73.00	15202	160.00	320	243.00	600	356.00	190
74.00	4191	161.00	504	244.00	4329	365.00	1588
75.00	3459	162.00	191	245.00	453	366.00	94
76.00	1521	164.00	88	246.00	1109	372.00	337
77.00	18264	165.00	792	247.00	251	383.00	164
78.00	1070	166.00	404	248.00	162	401.00	168
79.00	1167	167.00	2720	249.00	262	402.00	137
80.00	889	168.00	2122	250.00	238	403.00	222
81.00	1552	169.00	104	251.00	92	415.00	211
82.00	281	172.00	102	252.00	132	416.00	144

85.00	253	173.00	241	253.00	172	417.00	97
86.00	792	174.00	1204	254.00	453	421.00	203
87.00	130	175.00	896	255.00	16688	423.00	1165
91.00	363	177.00	758	256.00	3108	424.00	230
92.00	278	178.00	124	257.00	112	429.00	472
93.00	3505	179.00	1405	258.00	2025	430.00	101
94.00	96	180.00	1111	259.00	447	431.00	293
97.00	99	181.00	330	260.00	168	433.00	113
98.00	3092	183.00	122	265.00	881	435.00	131
99.00	1912	184.00	107	266.00	161	438.00	91
101.00	693	185.00	1466	267.00	245	439.00	239
103.00	85	186.00	5418	268.00	325	441.00	2270
104.00	611	187.00	1965	272.00	255	442.00	16976
105.00	929	188.00	394	273.00	917	443.00	3400
107.00	5742	189.00	415	274.00	1773	459.00	158
108.00	799	191.00	472	275.00	7091	461.00	289
109.00	402	192.00	486	276.00	776	465.00	98
110.00	8543	193.00	1108	277.00	1382	473.00	97
111.00	1505	195.00	248	278.00	211	489.00	118
112.00	112	196.00	1229	279.00	247	499.00	87
113.00	202	197.00	110	281.00	1864		
116.00	464	198.00	29400	282.00	600		
117.00	9017	199.00	1936	283.00	454		
118.00	642	201.00	258	284.00	163		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 26-MAR-2013 11:15
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.535	4.928	-0.393	198	28485			50.00- 0.00	100.00
4.535	4.928	-0.393	51	20973			10.00- 80.00	73.63
4.535	4.928	-0.393	68	225			0.00- 2.00	1.38
4.535	4.928	-0.393	69	16361			0.00- 0.00	57.44
4.535	4.928	-0.393	70	0	0.0	0.0	0.00- 2.00	0.00
4.535	4.928	-0.393	127	14748			10.00- 80.00	51.77
4.535	4.928	-0.393	197	0	0.0	0.0	0.00- 2.00	0.00
4.535	4.928	-0.393	442	18562			50.00- 0.00	65.16
4.535	4.928	-0.393	199	1996			5.00- 9.00	7.01
4.535	4.928	-0.393	275	7801			10.00- 60.00	27.39
4.535	4.928	-0.393	365	2061			1.00- 0.00	7.24
4.535	4.928	-0.393	441	3128			0.01- 99.99	88.26
4.535	4.928	-0.393	443	3544			15.00- 24.00	19.09

Data File: 1AC26002.D

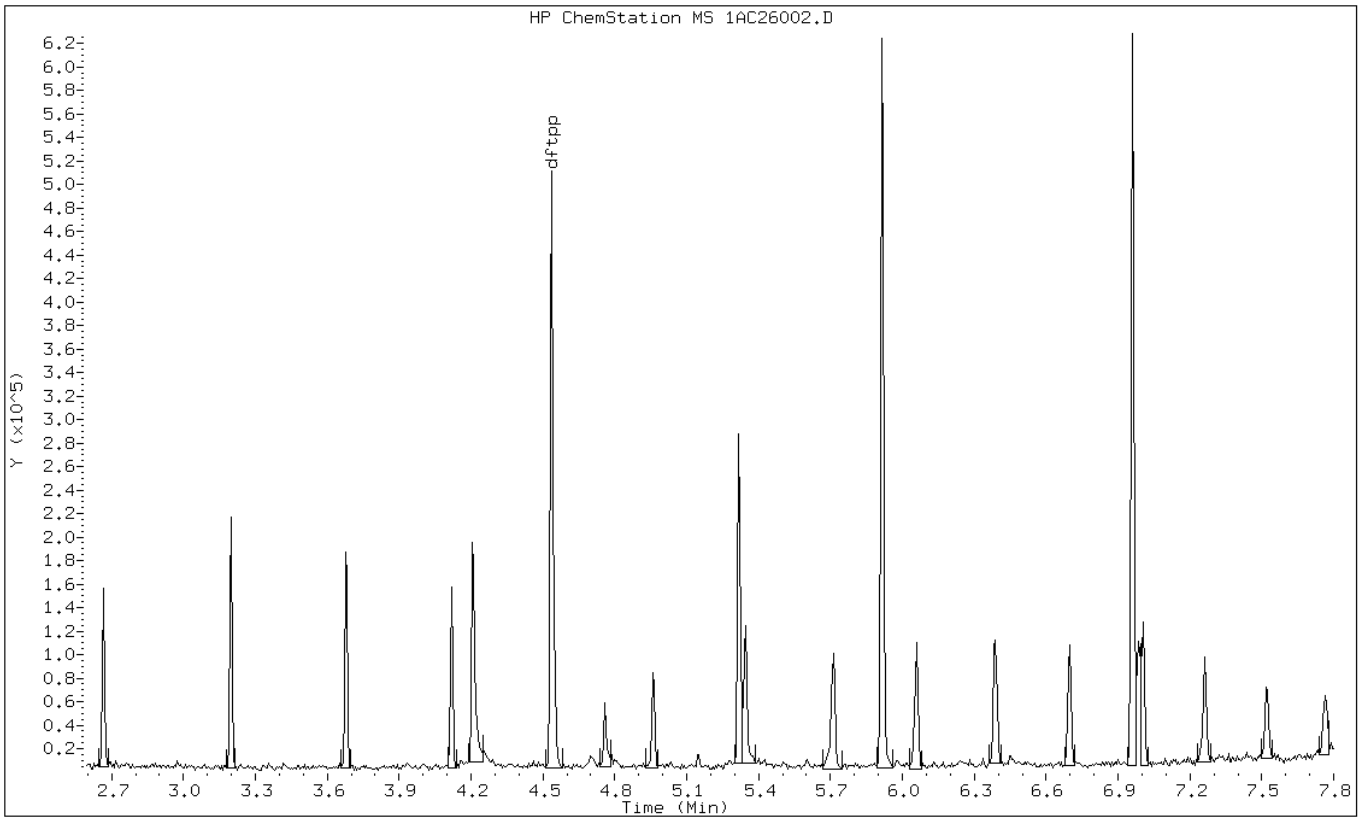
Date: 26-MAR-2013 11:15

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



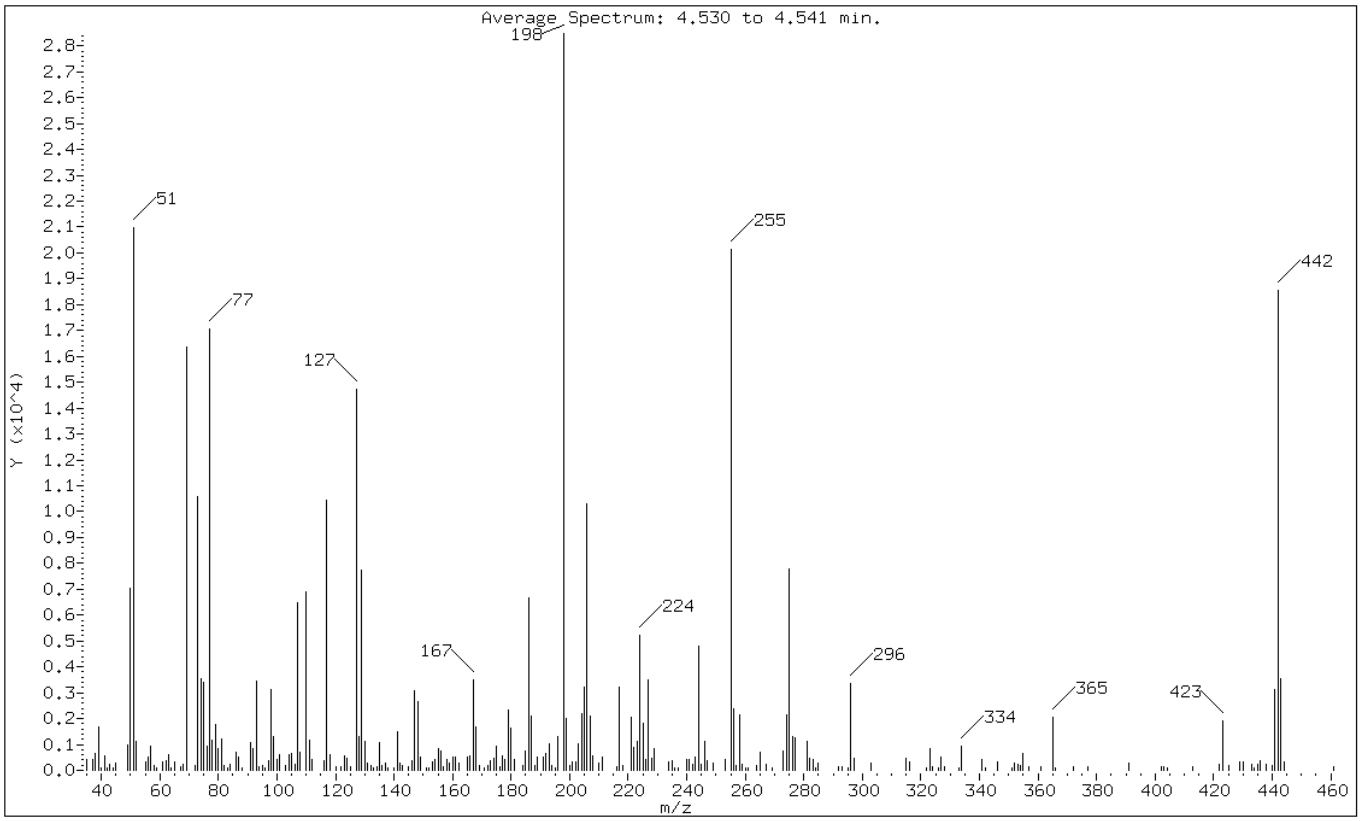
Data File: 1AC26002.D

Date: 26-MAR-2013 11:15

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	73.63
68	Less than 2.00% of mass 69	0.79 (1.38)
69	Mass 69 relative abundance	57.44
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	51.77
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	65.16
199	5.00 - 9.00% of mass 198	7.01
275	10.00 - 60.00% of mass 198	27.39
365	Greater than 1.00% of mass 198	7.24
441	Present, but less than mass 443	10.98
443	15.00 - 24.00% of mass 442	12.44 (19.09)

Data File: 1AC26002.D

Date: 26-MAR-2013 11:15

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26002.D
Spectrum: Average Spectrum: 4.530 to 4.541 min.
Location of Maximum: 198.00
Number of points: 243

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	424	111.00	1185	186.00	6650	274.00	2167
37.00	434	112.00	435	187.00	2114	275.00	7801
38.00	642	116.00	367	188.00	209	276.00	1288
39.00	1668	117.00	10457	189.00	521	277.00	1266
40.00	94	118.00	629	191.00	503	281.00	1099
41.00	555	120.00	153	192.00	673	282.00	468
42.00	90	122.00	132	193.00	1030	283.00	405
43.00	253	123.00	577	194.00	187	284.00	94
44.00	116	124.00	448	195.00	89	285.00	289
45.00	291	125.00	155	196.00	1314	292.00	140
49.00	986	127.00	14748	198.00	28480	293.00	131
50.00	7045	128.00	1316	199.00	1996	295.00	104
51.00	20968	129.00	7751	200.00	175	296.00	3339
52.00	1132	130.00	1104	201.00	307	297.00	460
55.00	330	131.00	291	202.00	321	303.00	299
56.00	516	132.00	172	203.00	1042	315.00	484
57.00	926	133.00	100	204.00	2195	316.00	310
58.00	192	134.00	118	205.00	3219	322.00	98
59.00	94	135.00	1052	206.00	10298	323.00	817
61.00	334	136.00	190	207.00	2096	324.00	123
62.00	375	137.00	283	208.00	569	326.00	85
63.00	600	138.00	111	210.00	276	327.00	507
64.00	95	140.00	105	211.00	525	328.00	134
65.00	329	141.00	1493	216.00	150	333.00	114
67.00	137	142.00	286	217.00	3211	334.00	916
68.00	225	143.00	184	218.00	208	341.00	423
69.00	16361	145.00	132	221.00	2055	342.00	89
72.00	187	146.00	394	222.00	872	346.00	335
73.00	10567	147.00	3094	223.00	1098	351.00	104
74.00	3538	148.00	2655	224.00	5212	352.00	269
75.00	3416	149.00	499	225.00	1837	353.00	231
76.00	945	151.00	101	226.00	397	354.00	209
77.00	17048	152.00	94	227.00	3491	355.00	672
78.00	1182	153.00	318	228.00	456	357.00	133
79.00	1752	154.00	412	229.00	850	361.00	128
80.00	819	155.00	825	234.00	321	365.00	2061
81.00	1219	156.00	755	235.00	364	366.00	112
82.00	168	157.00	151	236.00	101	372.00	162
83.00	88	158.00	408	237.00	85	377.00	132
84.00	220	159.00	274	240.00	412	391.00	268

86.00	692	160.00	533	241.00	416	402.00	121
87.00	522	161.00	505	242.00	230	403.00	143
88.00	90	162.00	289	243.00	536	404.00	86
91.00	1049	165.00	492	244.00	4824	413.00	144
92.00	843	166.00	549	245.00	237	422.00	216
93.00	3444	167.00	3509	246.00	1125	423.00	1897
94.00	133	168.00	1685	247.00	372	425.00	208
95.00	205	169.00	206	249.00	297	429.00	323
96.00	99	171.00	91	253.00	422	430.00	317
97.00	363	172.00	169	255.00	20128	433.00	237
98.00	3137	173.00	357	256.00	2357	434.00	107
99.00	1296	174.00	460	257.00	179	435.00	210
100.00	413	175.00	916	258.00	2137	436.00	366
101.00	617	176.00	143	259.00	251	438.00	243
103.00	201	177.00	572	260.00	84	440.00	197
104.00	616	178.00	425	261.00	87	441.00	3128
105.00	664	179.00	2330	264.00	175	442.00	18560
106.00	242	180.00	1614	265.00	707	443.00	3544
107.00	6481	181.00	408	267.00	239	444.00	339
108.00	690	184.00	170	269.00	94	461.00	155
110.00	6904	185.00	757	273.00	734		

TestAmerica Laboratories

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

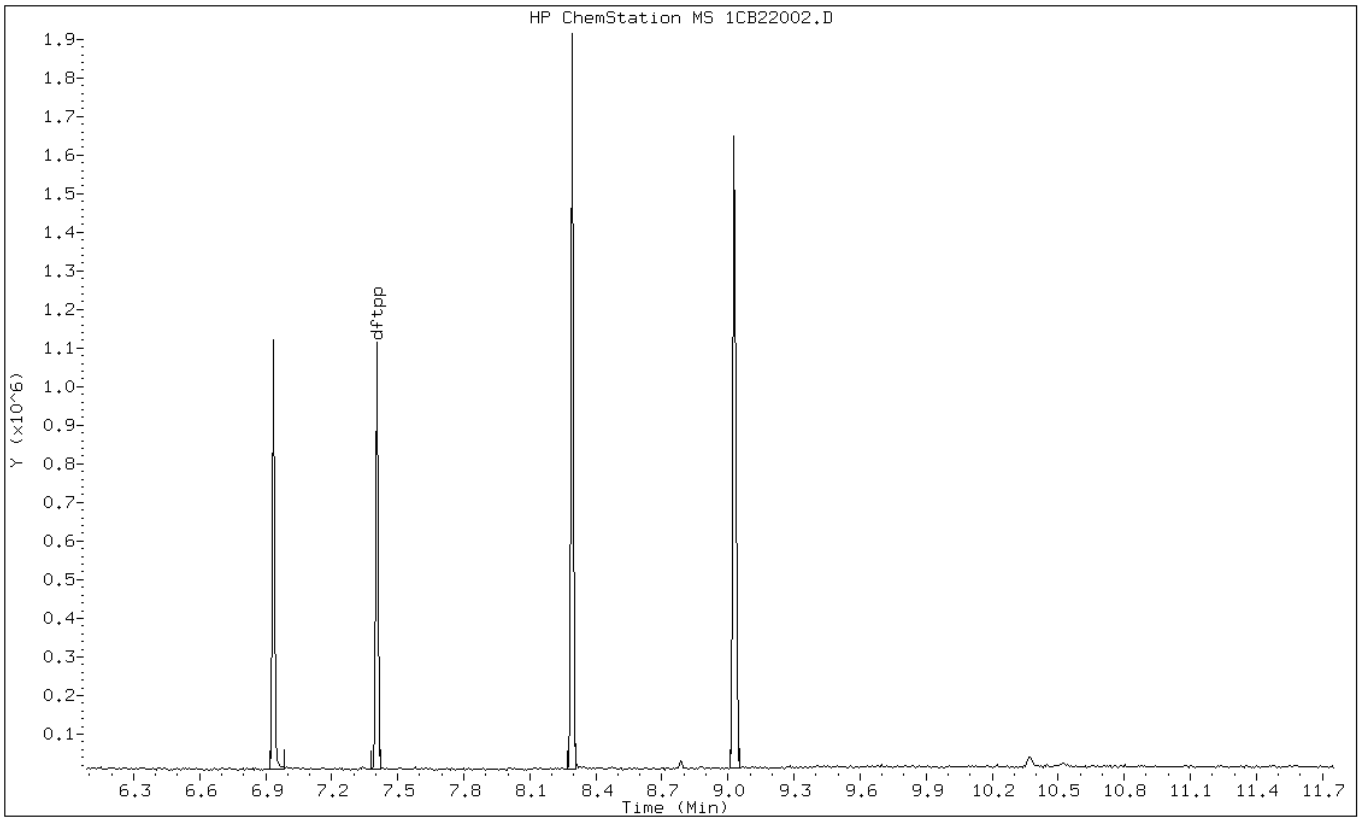
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.404	7.469	-0.065	198	73440			50.00- 0.00	100.00
7.404	7.469	-0.065	51	31096			10.00- 80.00	42.34
7.404	7.469	-0.065	68	471			0.00- 2.00	1.08
7.404	7.469	-0.065	69	43512			0.00-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

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



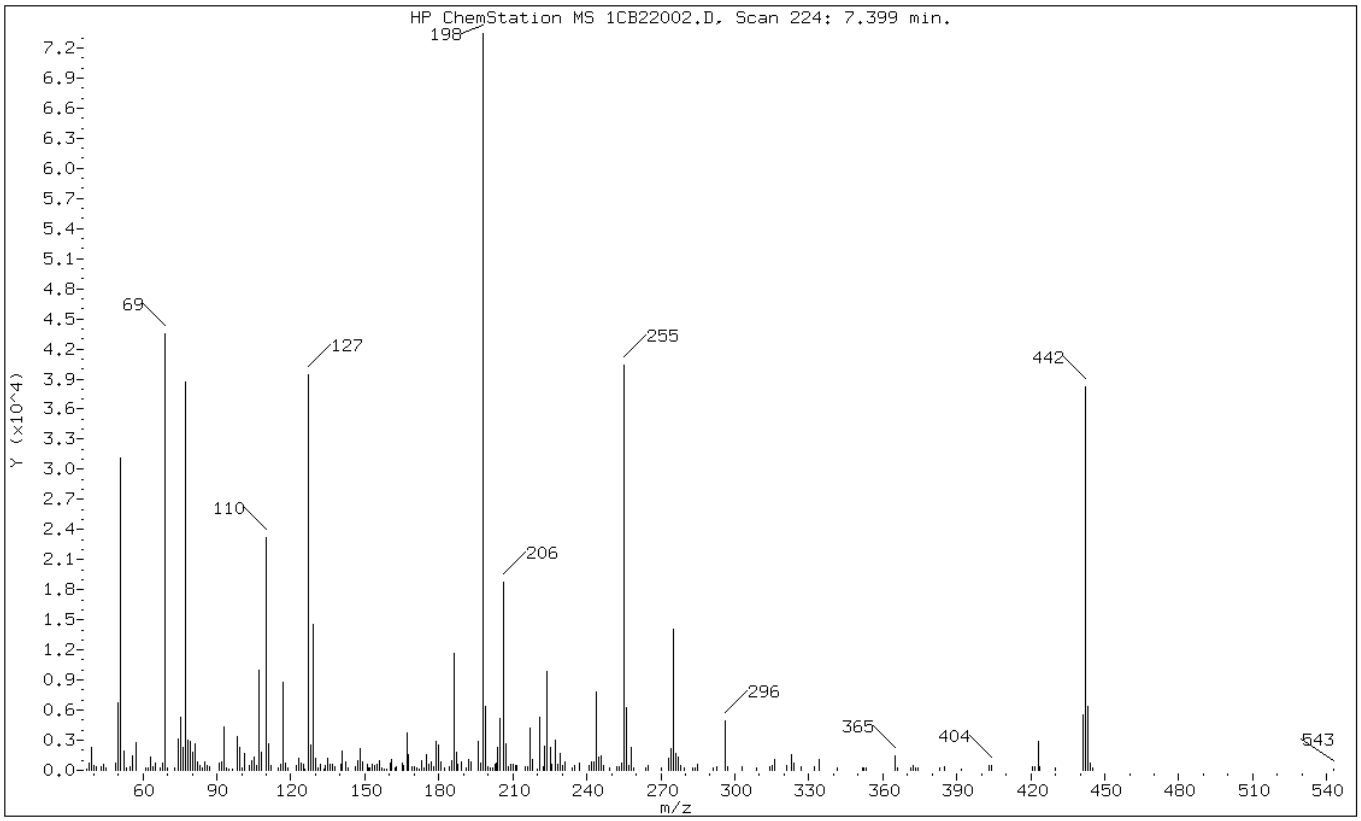
Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



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

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

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

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

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

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\1CC25002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 25-MAR-2013 12:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

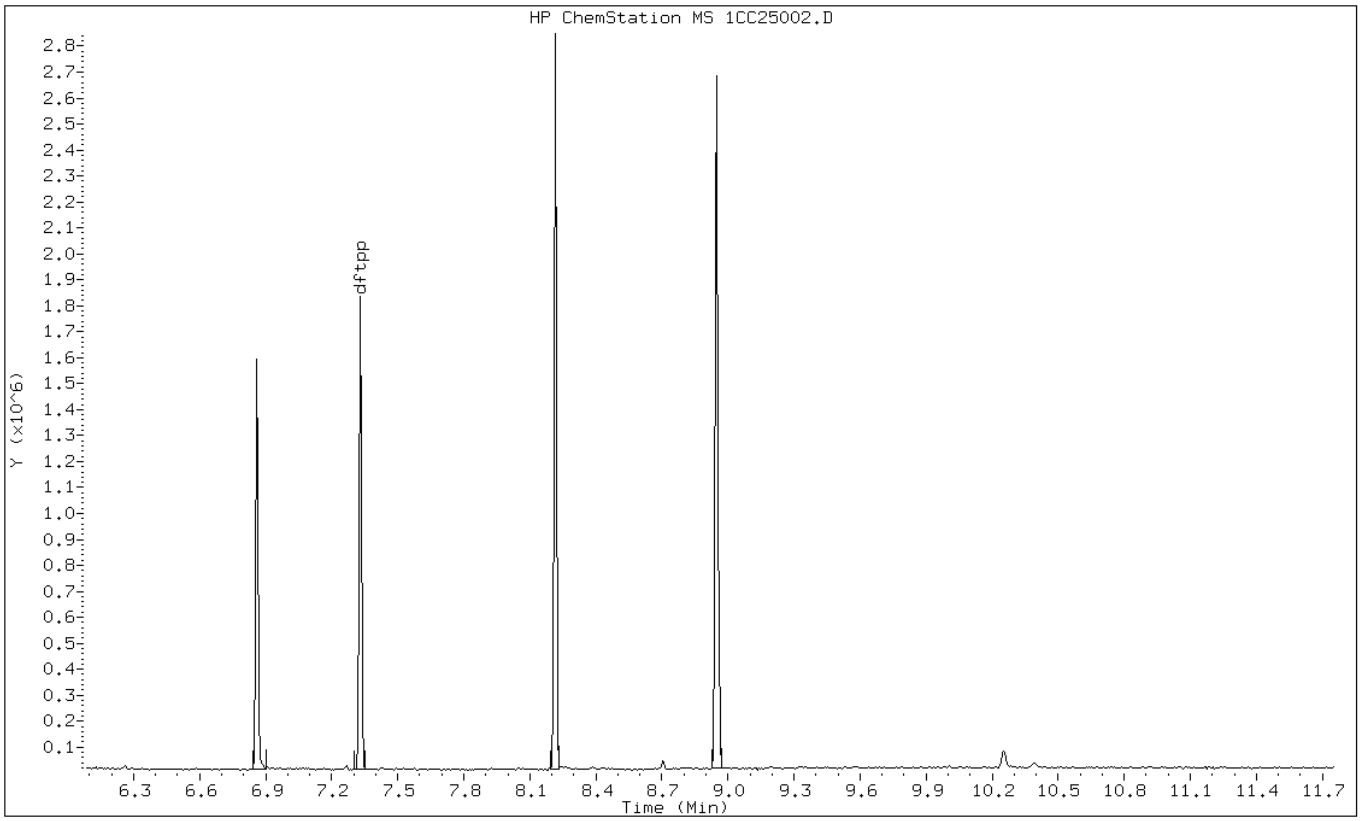
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.327	7.469	-0.142	198	214976			50.00- 0.00	100.00
7.327	7.469	-0.142	51	74280			10.00- 80.00	34.55
7.327	7.469	-0.142	68	1703			0.00- 2.00	1.78
7.327	7.469	-0.142	69	95584			0.00- 0.00	44.46
7.327	7.469	-0.142	70	493			0.00- 2.00	0.52
7.327	7.469	-0.142	127	95656			10.00- 80.00	44.50
7.327	7.469	-0.142	197	1494			0.00- 2.00	0.69
7.327	7.469	-0.142	442	151360			50.00- 0.00	70.41
7.327	7.469	-0.142	199	15400			5.00- 9.00	7.16
7.327	7.469	-0.142	275	43656			10.00- 60.00	20.31
7.327	7.469	-0.142	365	6141			1.00- 0.00	2.86
7.327	7.469	-0.142	441	22032			0.01- 99.99	69.51
7.327	7.469	-0.142	443	31696			15.00- 24.00	20.94

Data File: 1CC25002.D

Date: 25-MAR-2013 12:15

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



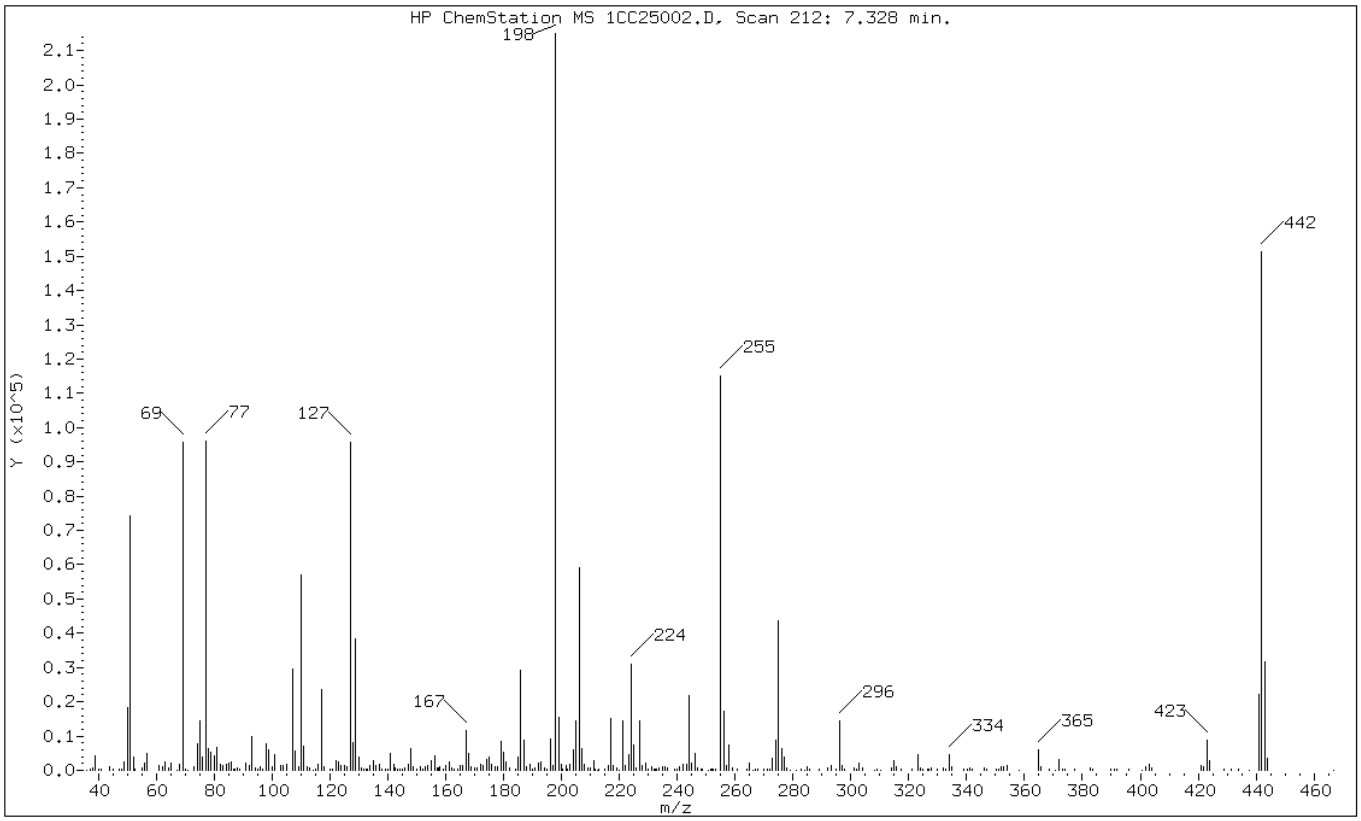
Data File: 1CC25002.D

Date: 25-MAR-2013 12:15

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	34.55
68	Less than 2.00% of mass 69	0.79 (1.78)
69	Mass 69 relative abundance	44.46
70	Less than 2.00% of mass 69	0.23 (0.52)
127	10.00 - 80.00% of mass 198	44.50
197	Less than 2.00% of mass 198	0.69
442	Greater than 50.00% of mass 198	70.41
199	5.00 - 9.00% of mass 198	7.16
275	10.00 - 60.00% of mass 198	20.31
365	Greater than 1.00% of mass 198	2.86
441	Present, but less than mass 443	10.25
443	15.00 - 24.00% of mass 442	14.74 (20.94)

Data File: 1CC25002.D

Date: 25-MAR-2013 12:15

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\1CC25002.D
Spectrum: HP ChemStation MS 1CC25002.D, Scan 212: 7.328 min.
Location of Maximum: 198.00
Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	174	125.90	932	201.50	1296	285.10	1088
37.10	191	127.10	95656	202.00	374	285.90	255
38.10	656	128.10	8065	203.10	1646	289.00	457
39.10	4388	129.00	38360	204.00	6045	292.00	557
40.20	403	130.00	3975	205.10	14410	293.10	1255
41.10	187	131.00	556	206.10	59000	295.00	469
44.00	972	131.90	228	207.10	6173	296.00	14431
45.00	277	132.50	324	208.10	1614	297.00	1240
47.10	307	133.00	267	209.10	680	298.00	206
47.90	215	134.00	1353	209.90	661	301.00	627
49.10	2446	135.10	2657	211.10	2719	301.90	225
50.10	18448	136.00	1528	211.70	364	303.00	2106
51.10	74280	137.10	1631	212.30	158	304.10	585
52.10	3785	138.00	379	212.90	262	308.10	159
52.80	261	139.10	324	215.00	388	309.00	403
55.00	545	140.00	307	216.10	1460	310.10	162
56.10	1988	141.00	4863	217.00	14994	314.10	835
57.00	5006	142.00	1649	217.90	1426	315.00	2740
61.00	1267	142.70	845	219.20	632	315.80	947
62.20	1016	143.30	376	220.00	167	317.40	260
63.10	2428	144.10	294	221.10	14265	321.00	482
64.10	585	145.10	376	221.90	1506	323.00	4536
65.10	2008	146.00	835	223.10	4676	324.00	795
67.10	151	147.00	1684	224.10	30856	325.00	195
68.10	1703	148.10	6278	225.10	7220	326.70	220
69.10	95584	149.00	950	226.00	761	327.10	505
70.00	493	150.10	395	227.00	14433	327.90	695
71.10	168	151.20	960	228.00	1312	330.00	234
73.10	995	152.00	410	229.00	2124	331.90	819
74.10	7635	153.00	888	229.90	213	332.90	291
75.10	14560	154.00	1269	231.10	903	334.10	4402
76.10	3795	155.10	2882	232.10	414	335.00	1039
77.10	95912	156.10	4375	232.60	265	338.90	205
78.10	6357	157.00	802	232.90	243	340.10	308
79.00	5194	157.50	803	233.90	630	340.90	615
80.00	4259	158.00	908	235.00	1022	342.10	481
81.00	6521	159.00	402	235.90	1184	345.90	750
82.00	1880	160.00	1556	236.70	639	346.80	427
83.00	1369	161.10	2376	239.10	527	350.10	226
84.10	1696	162.00	741	240.00	246	350.90	479

85.10	2050	163.10	444	240.90	986	351.90	1014
86.00	2330	164.20	405	242.00	1892	352.90	1138
86.70	349	165.10	1561	243.10	1926	354.00	1486
87.30	388	165.90	1514	244.10	21816	358.10	150
88.00	599	167.00	11653	245.00	2171	365.00	6141
89.00	207	168.10	4834	246.00	5005	365.80	1173
91.10	2064	168.90	896	246.90	818	368.70	178
92.10	1279	170.00	645	248.10	358	370.80	150
93.10	9834	170.90	656	248.70	436	372.10	2997
94.10	671	172.00	1699	250.70	153	373.10	293
95.20	404	173.10	1266	251.40	363	374.10	233
95.90	1011	174.00	3269	251.90	387	377.20	382
96.90	270	175.10	3816	252.60	527	382.90	534
98.10	7813	176.00	1652	253.20	526	383.50	231
99.00	5960	176.90	1009	255.00	115168	390.00	526
100.00	1155	178.00	904	256.00	17072	391.10	374
101.10	4430	179.10	8311	257.00	1539	392.00	304
103.10	1307	180.00	5256	258.00	7524	396.00	246
103.90	1497	181.00	2440	258.90	769	400.60	151
105.00	1823	182.20	724	260.80	364	402.00	880
107.10	29408	184.00	459	264.10	481	403.10	1586
108.10	5737	185.00	3741	265.10	2093	404.00	697
109.20	1089	186.00	29352	266.00	152	421.00	1582
110.10	56840	187.10	8638	267.00	186	422.00	1001
111.00	7061	187.90	935	268.00	214	423.00	8697
112.00	930	189.00	1600	270.10	180	423.90	2654
113.00	580	190.10	251	271.00	308	428.80	426
114.20	163	191.00	776	271.90	350	431.60	186
115.00	243	192.00	2227	273.00	3531	434.00	254
116.10	1770	193.10	2335	274.00	8645	437.70	159
117.10	23416	194.00	704	275.00	43656	441.00	22032
118.10	1189	194.90	348	276.00	6192	442.00	151360
120.00	509	196.10	9202	277.00	4029	443.10	31696
121.00	372	197.00	1494	278.00	727	444.00	3494
122.10	2711	198.00	214976	278.90	162	466.80	174
123.10	2347	199.00	15400	281.10	168		
123.90	1407	200.00	1609	283.00	205		
125.00	1570	200.60	454	284.00	158		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 27-MAR-2013 10:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

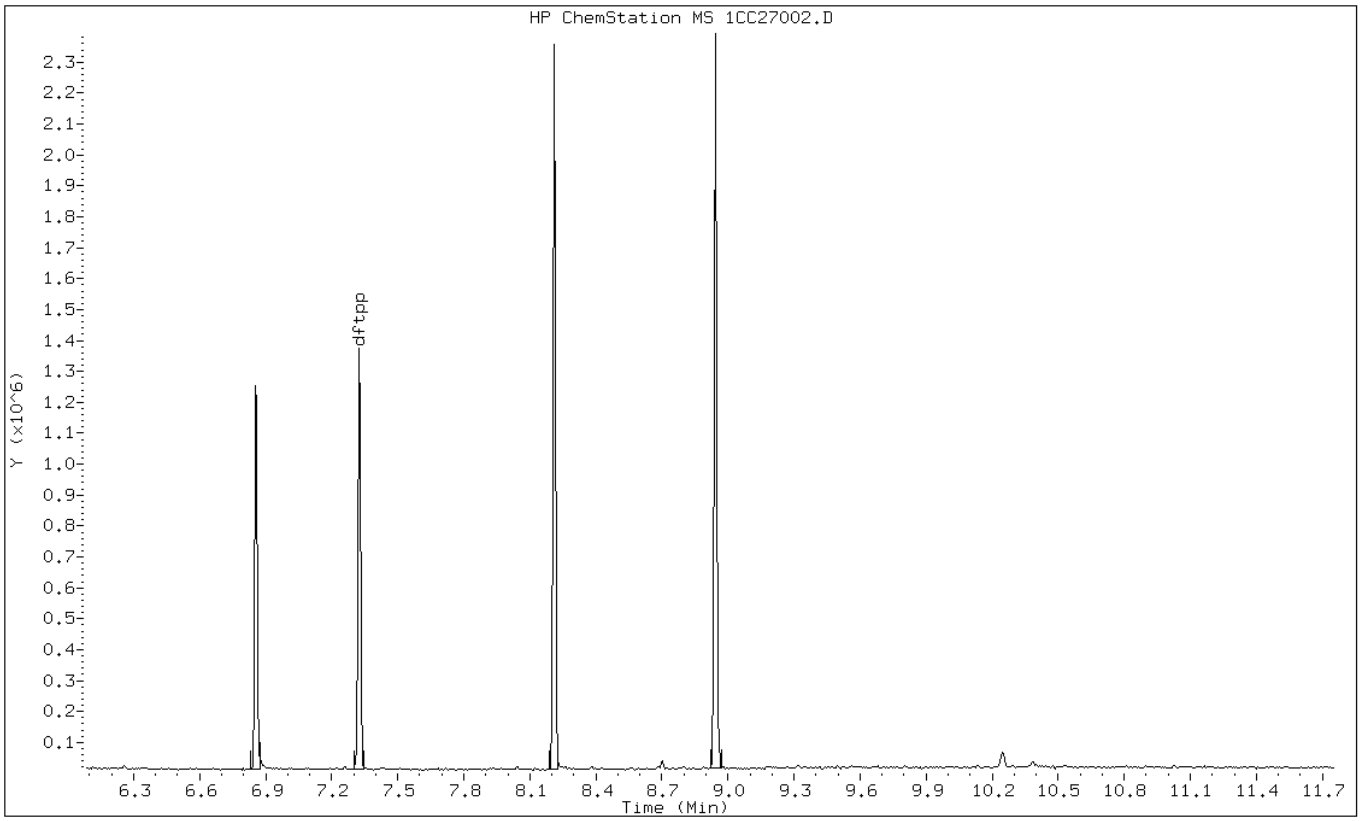
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.322	7.469	-0.147	198	111740			50.00- 0.00	100.00
7.322	7.469	-0.147	51	43188			10.00- 80.00	38.65
7.322	7.469	-0.147	68	1108			0.00- 2.00	1.99
7.322	7.469	-0.147	69	55704			0.00- 0.00	49.85
7.322	7.469	-0.147	70	455			0.00- 2.00	0.82
7.322	7.469	-0.147	127	53208			10.00- 80.00	47.62
7.322	7.469	-0.147	197	1183			0.00- 2.00	1.06
7.322	7.469	-0.147	442	61668			50.00- 0.00	55.19
7.322	7.469	-0.147	199	6945			5.00- 9.00	6.22
7.322	7.469	-0.147	275	20541			10.00- 60.00	18.38
7.322	7.469	-0.147	365	2993			1.00- 0.00	2.68
7.322	7.469	-0.147	441	9207			0.01- 99.99	68.06
7.322	7.469	-0.147	443	13528			15.00- 24.00	21.94

Data File: 1CC27002.D

Date: 27-MAR-2013 10:18

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



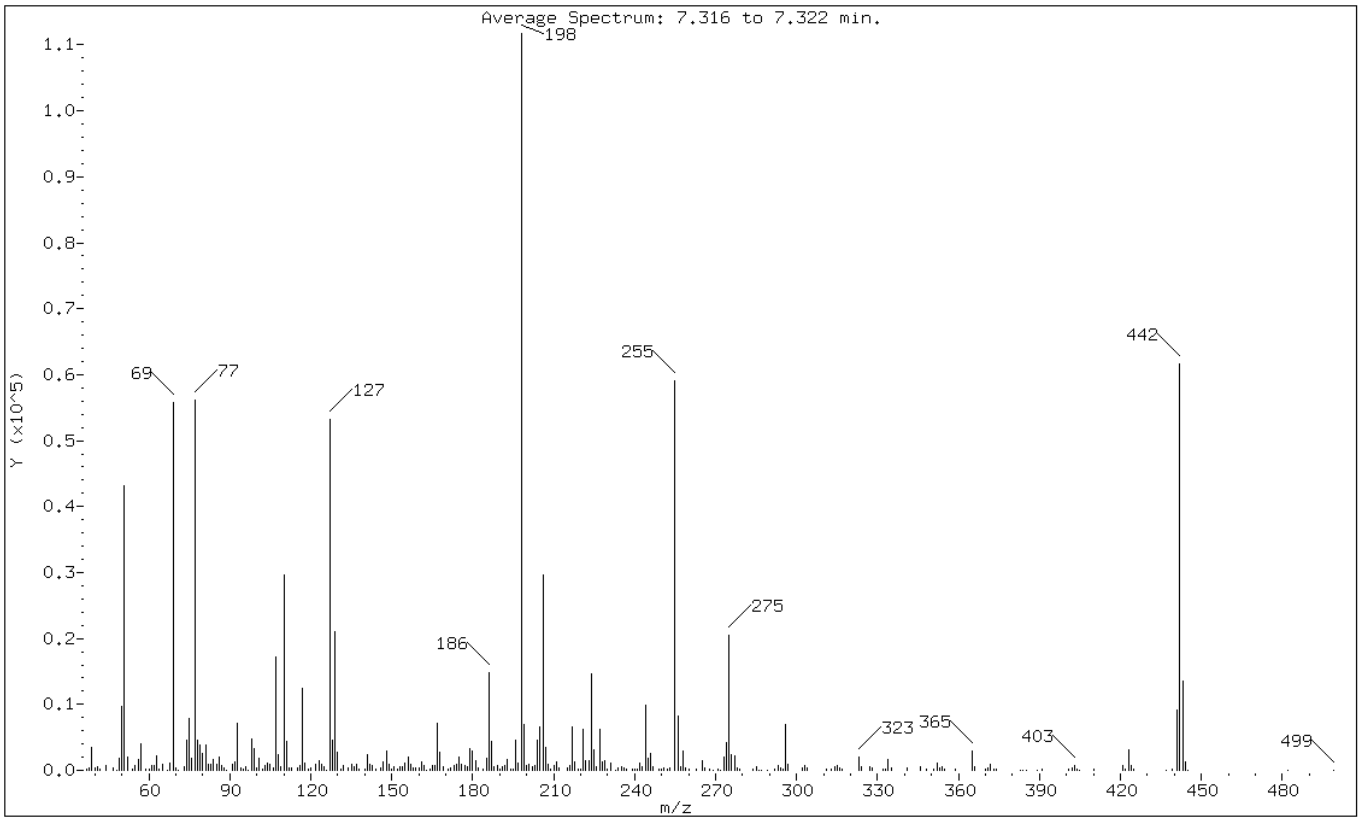
Data File: 1CC27002.D

Date: 27-MAR-2013 10:18

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	38.65
68	Less than 2.00% of mass 69	0.99 (1.99)
69	Mass 69 relative abundance	49.85
70	Less than 2.00% of mass 69	0.41 (0.82)
127	10.00 - 80.00% of mass 198	47.62
197	Less than 2.00% of mass 198	1.06
442	Greater than 50.00% of mass 198	55.19
199	5.00 - 9.00% of mass 198	6.22
275	10.00 - 60.00% of mass 198	18.38
365	Greater than 1.00% of mass 198	2.68
441	Present, but less than mass 443	8.24
443	15.00 - 24.00% of mass 442	12.11 (21.94)

Data File: 1CC27002.D

Date: 27-MAR-2013 10:18

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27002.D
Spectrum: Average Spectrum: 7.316 to 7.322 min.
Location of Maximum: 198.00
Number of points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	110	118.00	1074	196.00	4498	279.00	128
38.00	331	119.00	105	197.00	1183	284.00	166
39.00	3391	120.00	317	198.00	111736	285.00	502
40.00	309	122.00	857	199.00	6945	286.00	85
41.00	524	123.00	1424	200.00	721	287.00	85
42.00	189	124.00	875	201.00	921	289.00	91
44.00	815	125.00	520	202.00	513	292.00	200
47.00	287	126.00	89	203.00	673	293.00	656
48.00	83	127.00	53208	204.00	4538	294.00	330
49.00	1900	128.00	4497	205.00	6576	295.00	263
50.00	9727	129.00	21056	206.00	29576	296.00	7021
51.00	43184	130.00	2658	207.00	3429	297.00	839
52.00	2012	131.00	214	208.00	897	302.00	316
54.00	118	132.00	658	209.00	188	303.00	678
55.00	686	134.00	446	210.00	644	304.00	275
56.00	1674	135.00	949	211.00	1222	311.00	136
57.00	3990	136.00	489	212.00	344	313.00	120
59.00	200	137.00	972	215.00	302	314.00	575
60.00	102	138.00	183	216.00	708	315.00	710
61.00	688	140.00	166	217.00	6495	316.00	451
62.00	643	141.00	2456	218.00	1219	317.00	241
63.00	2108	142.00	826	219.00	209	323.00	2034
64.00	198	143.00	688	220.00	203	324.00	622
65.00	966	144.00	107	221.00	6220	327.00	594
67.00	85	146.00	409	222.00	1372	328.00	314
68.00	1108	147.00	1369	223.00	1554	332.00	256
69.00	55704	148.00	2888	224.00	14710	333.00	127
70.00	455	149.00	863	225.00	3045	334.00	1727
71.00	86	150.00	204	226.00	550	335.00	353
73.00	563	151.00	582	227.00	6149	341.00	409
74.00	4574	152.00	137	228.00	1321	346.00	635
75.00	7776	153.00	604	229.00	1434	348.00	124
76.00	1808	154.00	530	230.00	121	351.00	204
77.00	56120	155.00	1183	231.00	1154	352.00	1050
78.00	4636	156.00	1982	233.00	80	353.00	393
79.00	3764	157.00	960	234.00	360	354.00	628
80.00	2509	158.00	367	235.00	584	355.00	186
81.00	3783	159.00	393	236.00	304	359.00	231
82.00	859	160.00	416	237.00	247	365.00	2993
83.00	944	161.00	1195	239.00	158	366.00	522

84.00	1643	162.00	709	240.00	113	370.00	103
85.00	870	163.00	87	241.00	244	371.00	320
86.00	2033	164.00	228	242.00	1022	372.00	962
87.00	775	165.00	812	243.00	614	373.00	203
88.00	439	166.00	759	244.00	9836	374.00	183
89.00	75	167.00	7152	245.00	1917	383.00	80
91.00	935	168.00	2718	246.00	2545	384.00	82
92.00	1197	169.00	480	247.00	639	385.00	84
93.00	7053	171.00	167	249.00	238	389.00	82
94.00	371	172.00	421	250.00	128	391.00	217
95.00	124	173.00	723	251.00	349	401.00	212
96.00	551	174.00	828	252.00	113	402.00	406
97.00	89	175.00	2017	253.00	373	403.00	666
98.00	4715	176.00	960	255.00	59088	404.00	241
99.00	3308	177.00	807	256.00	8154	405.00	86
100.00	286	178.00	485	257.00	616	410.00	110
101.00	1852	179.00	3326	258.00	3007	421.00	665
102.00	207	180.00	2968	259.00	453	422.00	202
103.00	645	181.00	1541	260.00	126	423.00	3022
104.00	1173	182.00	302	263.00	166	424.00	648
105.00	938	184.00	199	265.00	1416	425.00	235
106.00	416	185.00	1914	266.00	311	437.00	81
107.00	17128	186.00	14888	268.00	116	439.00	98
108.00	2326	187.00	4450	269.00	83	441.00	9207
109.00	491	188.00	490	271.00	106	442.00	61664
110.00	29592	189.00	750	272.00	84	443.00	13528
111.00	4467	190.00	193	273.00	2008	444.00	1364
112.00	401	191.00	634	274.00	4160	445.00	85
113.00	284	192.00	814	275.00	20536	482.00	77
115.00	320	193.00	1721	276.00	2395	499.00	85
116.00	747	194.00	178	277.00	2145		
117.00	12356	195.00	132	278.00	447		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: | Lab Sample ID: MB 660-135631/1-A

Matrix: Solid | Lab File ID: 1AC26005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/21/2013 11:14

Sample wt/vol: 15.40(g) | Date Analyzed: 03/26/2013 11:59

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

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

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

Analysis Batch No.: 135850 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26005.D
Lab Smp Id: mb 660-135631/1-a
Inj Date : 26-MAR-2013 11:59
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-135631/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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	15.400	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

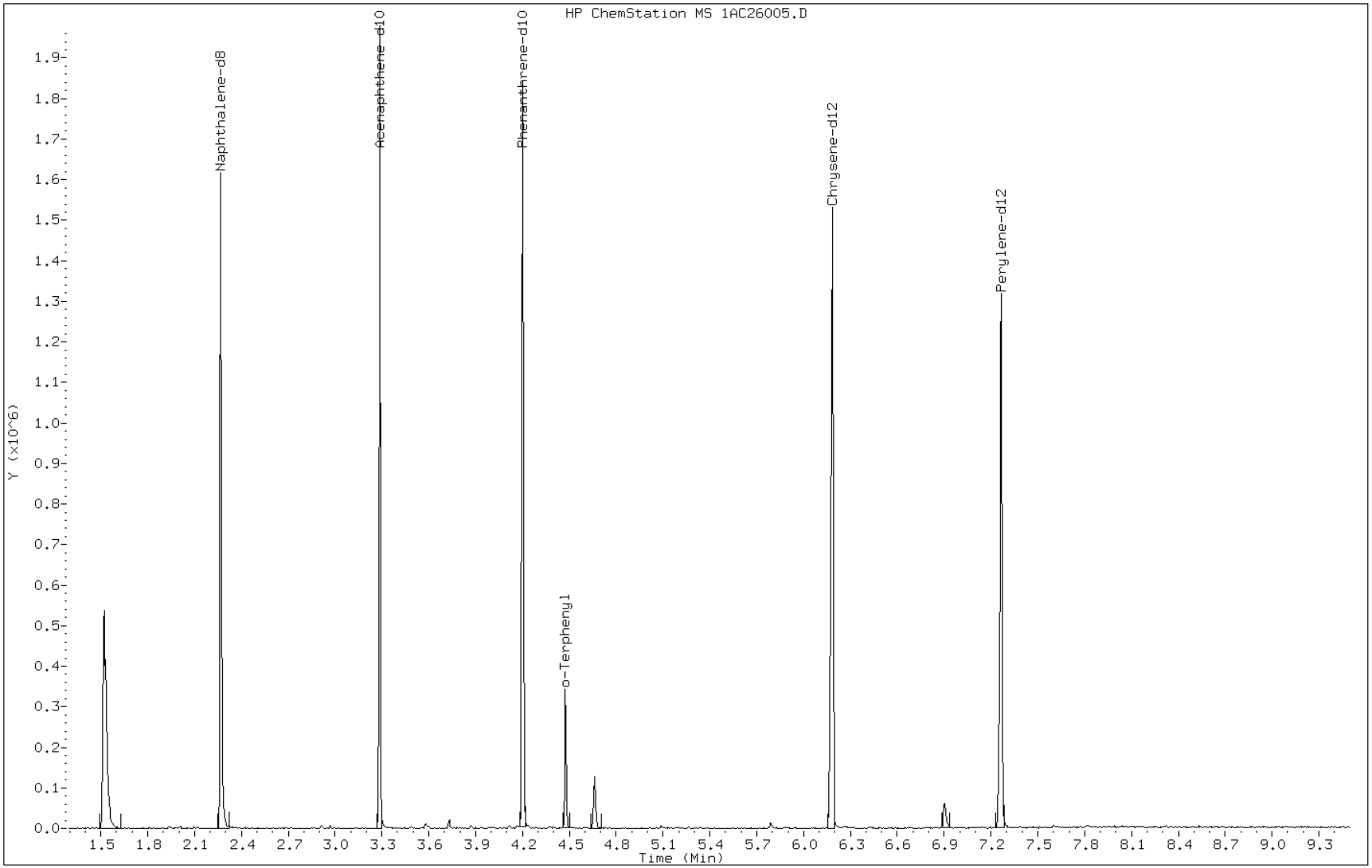
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.268	2.272	(1.000)	377337	40.0000	
* 6 Acenaphthene-d10	164	3.288	3.287	(1.000)	278086	40.0000	
* 10 Phenanthrene-d10	188	4.202	4.205	(1.000)	415737	40.0000	
$ 14 o-Terphenyl	230	4.474	4.478	(1.065)	44170	8.06545	523.7307
* 18 Chrysene-d12	240	6.184	6.193	(1.000)	432209	40.0000	
* 23 Perylene-d12	264	7.268	7.272	(1.000)	464534	40.0000	

Data File: 1AC26005.D

Date: 26-MAR-2013 11:59

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-135631/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88420-2
SDG No.: 68088420-2
Client Sample ID:
Lab Sample ID: MB 660-135688/1-A
Matrix: Solid
Lab File ID: 1CC25005.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/22/2013 13:10
Sample wt/vol: 15.05(g)
Date Analyzed: 03/25/2013 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.: 135753
Units: ug/Kg

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\1CC25005.D
Lab Smp Id: mb 660-135688/1-a
Inj Date : 25-MAR-2013 13:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-135688/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\a-bFASTPAHi-m.m
Meth Date : 25-Mar-2013 12:48 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

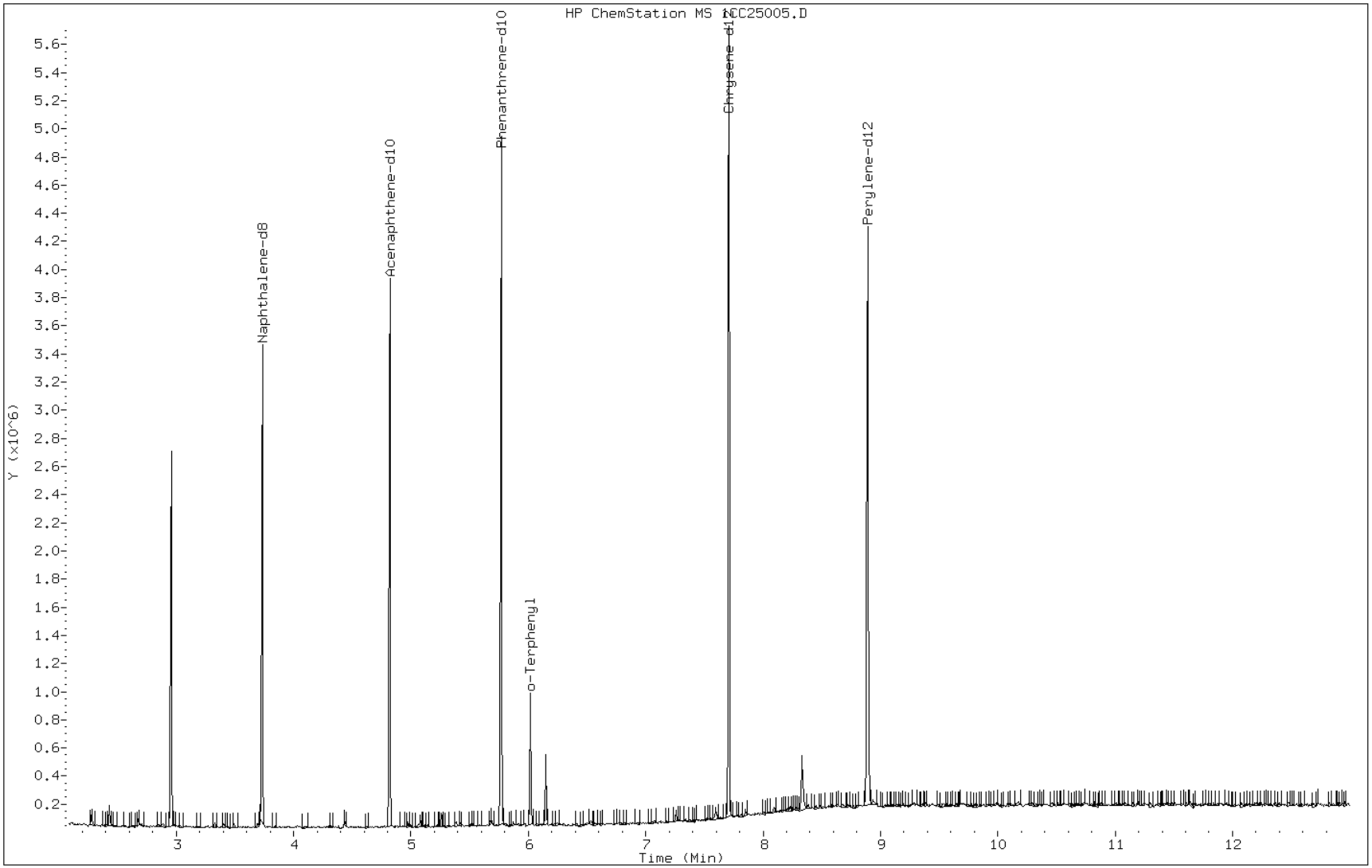
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.733	3.733	(1.000)	726242	40.0000	
* 6 Acenaphthene-d10	164	4.821	4.821	(1.000)	577693	40.0000	
* 10 Phenanthrene-d10	188	5.768	5.768	(1.000)	1104071	40.0000	
$ 14 o-Terphenyl	230	6.021	6.021	(1.044)	133330	7.99840	531.4549
* 18 Chrysene-d12	240	7.709	7.715	(1.000)	1405834	40.0000	
* 23 Perylene-d12	264	8.892	8.898	(1.000)	1441890	40.0000	

Data File: 1CC25005.D

Date: 25-MAR-2013 13:11

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-135688/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88420-2
SDG No.: 68088420-2
Client Sample ID:
Lab Sample ID: LCS 660-135631/2-A
Matrix: Solid
Lab File ID: 1AC26006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/21/2013 11:14
Sample wt/vol: 15.31(g)
Date Analyzed: 03/26/2013 12:15
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 135850
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430		98	20
208-96-8	Acenaphthylene	477		39	4.9
120-12-7	Anthracene	437		8.2	4.1
56-55-3	Benzo[a]anthracene	501		7.8	3.8
50-32-8	Benzo[a]pyrene	427		10	5.1
205-99-2	Benzo[b]fluoranthene	471		12	6.0
191-24-2	Benzo[g,h,i]perylene	437		20	4.3
207-08-9	Benzo[k]fluoranthene	501		7.8	3.5
218-01-9	Chrysene	489		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	496		20	4.0
206-44-0	Fluoranthene	479		20	3.9
86-73-7	Fluorene	491		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	434		20	7.0
90-12-0	1-Methylnaphthalene	506		39	4.3
91-57-6	2-Methylnaphthalene	420		39	7.0
91-20-3	Naphthalene	440		39	4.3
85-01-8	Phenanthrene	437		7.8	3.8
129-00-0	Pyrene	411		20	3.6

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\1A032613.b\1AC26006.D
Lab Smp Id: lcs 660-135631/2-a
Inj Date : 26-MAR-2013 12:15
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-135631/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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	15.310	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	2.271	2.272	(1.000)	544182	40.0000	
* 6 Acenaphthene-d10	164	3.291	3.287	(1.000)	358843	40.0000	
* 10 Phenanthrene-d10	188	4.205	4.205	(1.000)	564804	40.0000	
$ 14 o-Terphenyl	230	4.477	4.478	(1.065)	51378	6.95053	453.9865
* 18 Chrysene-d12	240	6.186	6.193	(1.000)	603297	40.0000	
* 23 Perylene-d12	264	7.271	7.272	(1.000)	589267	40.0000	
2 Naphthalene	128	2.281	2.282	(1.005)	84638	6.73203	439.7144
3 2-Methylnaphthalene	141	2.682	2.683	(1.181)	42833	6.43431	420.2683
4 1-Methylnaphthalene	142	2.735	2.736	(1.205)	55964	7.74116	505.6275
5 Acenaphthylene	152	3.200	3.201	(0.972)	93070	7.29982	476.8009
7 Acenaphthene	154	3.307	3.308	(1.005)	46864	6.58509	430.1171
9 Fluorene	166	3.612	3.612	(1.097)	66136	7.51204	490.6623
11 Phenanthrene	178	4.221	4.221	(1.004)	95788	6.69154	437.0695
12 Anthracene	178	4.253	4.253	(1.011)	92968	6.69796	437.4889

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.408	4.408	(1.048)	76367	6.27731	410.0136
15 Fluoranthene	202	5.059	5.065	(1.203)	103769	7.33345	478.9976
16 Pyrene	202	5.225	5.226	(0.845)	108957	6.29885	411.4206
17 Benzo(a)anthracene	228	6.181	6.177	(0.999)	131292	7.67305	501.1787
19 Chrysene	228	6.202	6.209	(1.003)	117058	7.49142	489.3151
20 Benzo(b)fluoranthene	252	6.993	6.994	(0.962)	97520	7.20864	470.8450
21 Benzo(k)fluoranthene	252	7.009	7.015	(0.964)	121968	7.67337	501.2000
22 Benzo(a)pyrene	252	7.217	7.224	(0.993)	90399	6.53697	426.9736
24 Indeno(1,2,3-cd)pyrene	276	7.960	7.972	(1.095)	82975	6.64978	434.3421(M)
25 Dibenzo(a,h)anthracene	278	7.971	7.982	(1.096)	93837	7.58785	495.6142
26 Benzo(g,h,i)perylene	276	8.136	8.148	(1.119)	84110	6.69653	437.3959

QC Flag Legend

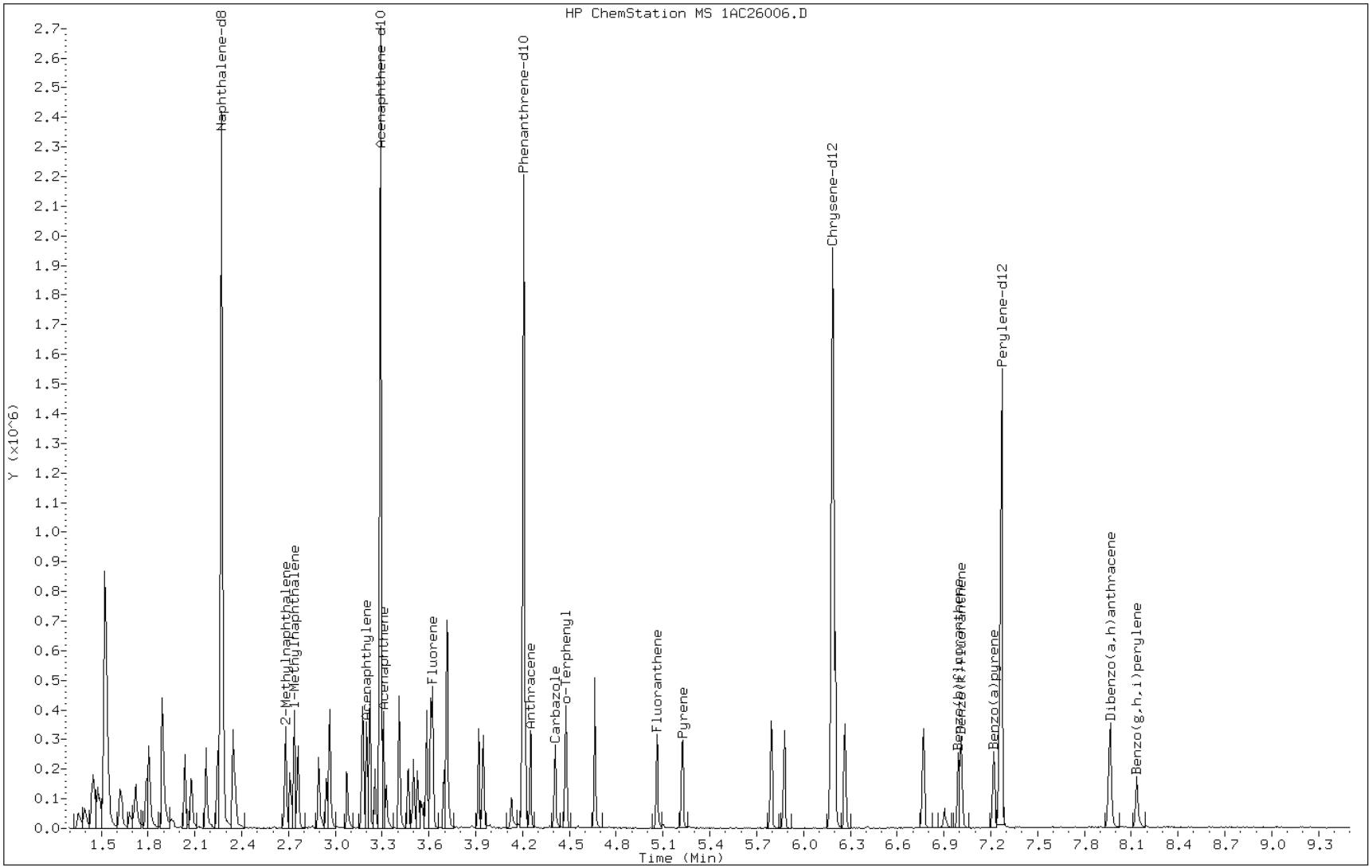
M - Compound response manually integrated.

Data File: 1AC26006.D

Date: 26-MAR-2013 12:15

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-135631/2-a Operator: SCC



Manual Integration Report

Data File: 1AC26006.D
Inj. Date and Time: 26-MAR-2013 12:15
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

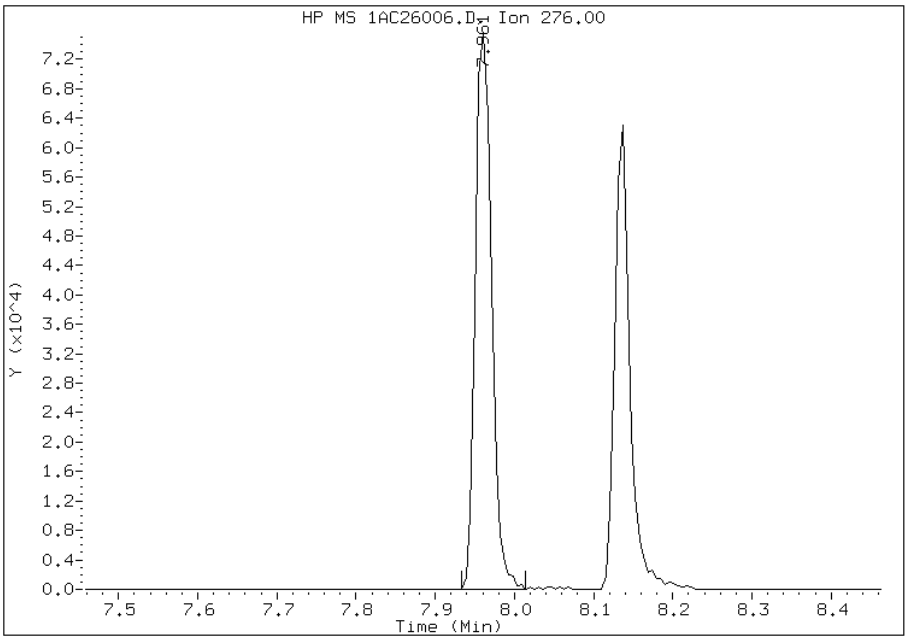
Processing Integration Results

RT: 7.96

Response: 106757

Amount: 9

Conc: 559



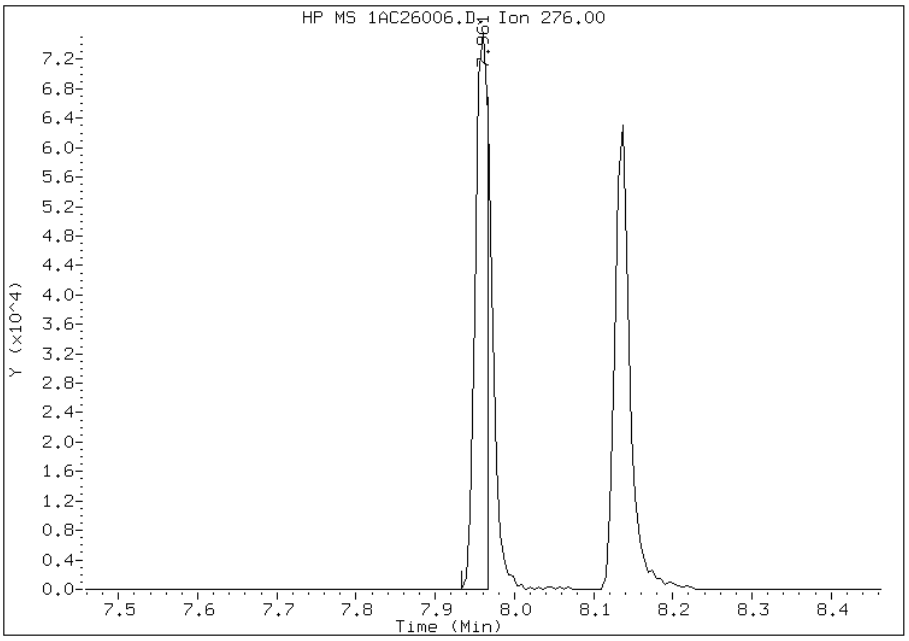
Manual Integration Results

RT: 7.96

Response: 82975

Amount: 7

Conc: 434



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88420-2
SDG No.: 68088420-2
Client Sample ID:
Lab Sample ID: LCS 660-135688/2-A
Matrix: Solid
Lab File ID: 1CC25006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/22/2013 13:10
Sample wt/vol: 15.14(g)
Date Analyzed: 03/25/2013 13:30
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.: 135753
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	478		99	20
208-96-8	Acenaphthylene	537		40	5.0
120-12-7	Anthracene	558		8.3	4.2
56-55-3	Benzo[a]anthracene	581		7.9	3.9
50-32-8	Benzo[a]pyrene	530		10	5.2
205-99-2	Benzo[b]fluoranthene	601		12	6.0
191-24-2	Benzo[g,h,i]perylene	542		20	4.4
207-08-9	Benzo[k]fluoranthene	562		7.9	3.6
218-01-9	Chrysene	531		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	585		20	4.1
206-44-0	Fluoranthene	600		20	4.0
86-73-7	Fluorene	546		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	538		20	7.0
90-12-0	1-Methylnaphthalene	583		40	4.4
91-57-6	2-Methylnaphthalene	536		40	7.0
91-20-3	Naphthalene	555		40	4.4
85-01-8	Phenanthrene	537		7.9	3.9
129-00-0	Pyrene	562		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\1C032513.b\1CC25006.D
Lab Smp Id: lcs 660-135688/2-a
Inj Date : 25-MAR-2013 13:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-135688/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\a-bFASTPAHi-m.m
Meth Date : 25-Mar-2013 12:48 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.733	3.733	(1.000)	702460	40.0000	
* 6 Acenaphthene-d10	164	4.821	4.821	(1.000)	575205	40.0000	
* 10 Phenanthrene-d10	188	5.768	5.768	(1.000)	1067866	40.0000	
$ 14 o-Terphenyl	230	6.021	6.021	(1.044)	140444	8.71081	575.3506
* 18 Chrysene-d12	240	7.710	7.715	(1.000)	1388449	40.0000	
* 23 Perylene-d12	264	8.892	8.898	(1.000)	1412859	40.0000	
2 Naphthalene	128	3.745	3.745	(1.003)	153606	8.39942	554.7834
3 2-Methylnaphthalene	142	4.169	4.174	(1.117)	98937	8.11046	535.6975
4 1-Methylnaphthalene	142	4.233	4.233	(1.134)	98003	8.82108	582.6342
5 Acenaphthylene	152	4.733	4.733	(0.982)	188393	8.12373	536.5739
7 Acenaphthene	154	4.839	4.839	(1.004)	104346	7.23913	478.1457
9 Fluorene	166	5.157	5.162	(1.070)	150590	8.26086	545.6314
11 Phenanthrene	178	5.780	5.786	(1.002)	250947	8.12706	536.7937
12 Anthracene	178	5.816	5.821	(1.008)	255222	8.45149	558.2226

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.927	5.927	(1.028)	242114	9.01919	595.7191
15 Fluoranthene	202	6.621	6.621	(1.148)	306957	9.07751	599.5714
16 Pyrene	202	6.786	6.792	(0.880)	317696	8.51445	562.3810
17 Benzo(a)anthracene	228	7.698	7.703	(0.998)	352232	8.78969	580.5606
19 Chrysene	228	7.727	7.733	(1.002)	322108	8.03193	530.5107
20 Benzo(b)fluoranthene	252	8.545	8.550	(0.961)	335735	9.09278	600.5798
21 Benzo(k)fluoranthene	252	8.568	8.574	(0.964)	322078	8.50314	561.6341
22 Benzo(a)pyrene	252	8.833	8.845	(0.993)	287822	8.02524	530.0689
24 Indeno(1,2,3-cd)pyrene	276	10.051	10.062	(1.130)	274962	8.14982	538.2972(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.080	(1.132)	292509	8.86366	585.4467
26 Benzo(g,h,i)perylene	276	10.403	10.415	(1.170)	289528	8.20350	541.8429

QC Flag Legend

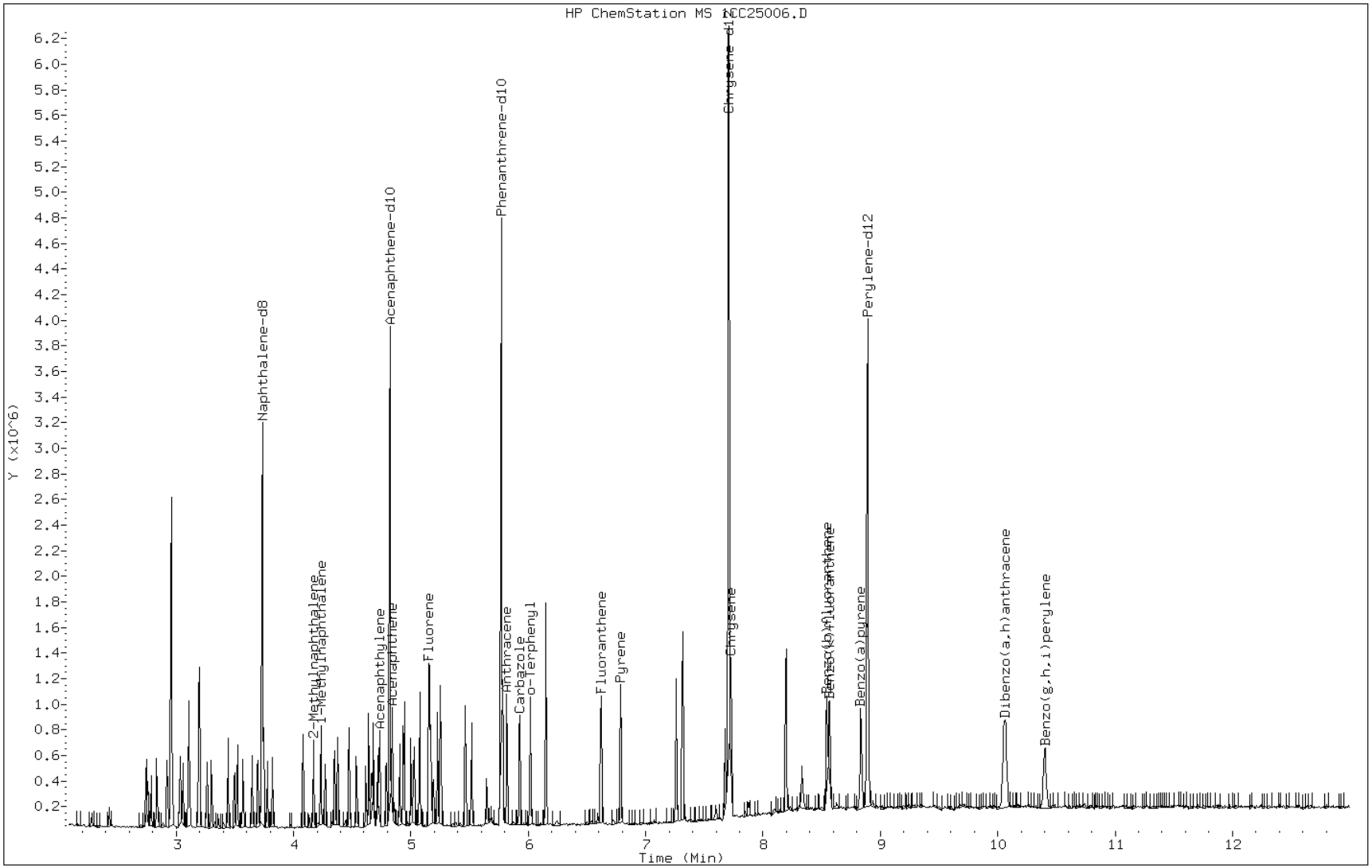
M - Compound response manually integrated.

Data File: 1CC25006.D

Date: 25-MAR-2013 13:30

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-135688/2-a Operator: SCC



Manual Integration Report

Data File: 1CC25006.D
Inj. Date and Time: 25-MAR-2013 13:30
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

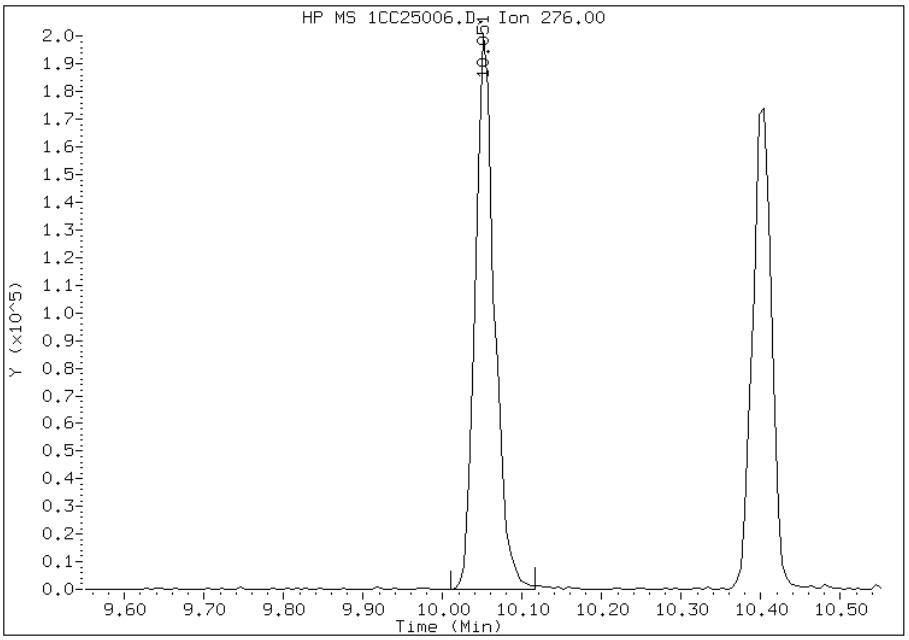
Processing Integration Results

RT: 10.05

Response: 336579

Amount: 10

Conc: 659



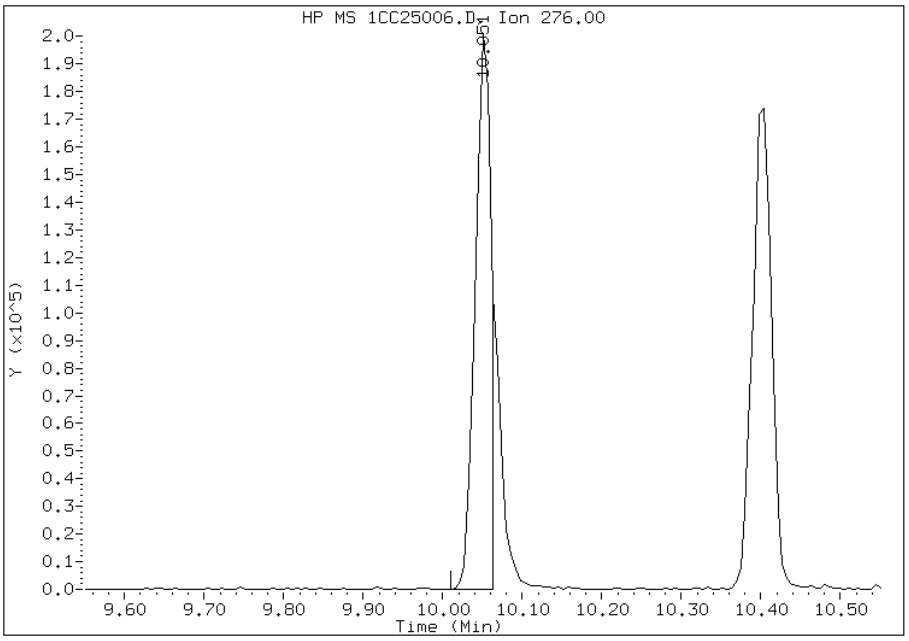
Manual Integration Results

RT: 10.05

Response: 274962

Amount: 8

Conc: 538



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 16:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88420-2
SDG No.: 68088420-2
Client Sample ID:
Lab Sample ID: 680-88420-A-12-B MS
Matrix: Solid
Lab File ID: 1CC27030.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/21/2013 11:14
Sample wt/vol: 15.21(g)
Date Analyzed: 03/27/2013 19:03
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 22.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 135830
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	655		130	25
208-96-8	Acenaphthylene	619		51	6.3
120-12-7	Anthracene	772		11	5.3
56-55-3	Benzo[a]anthracene	1180		10	4.9
50-32-8	Benzo[a]pyrene	1110		13	6.6
205-99-2	Benzo[b]fluoranthene	1500		15	7.7
191-24-2	Benzo[g,h,i]perylene	846		25	5.6
207-08-9	Benzo[k]fluoranthene	1040		10	4.6
218-01-9	Chrysene	1240		11	5.7
53-70-3	Dibenz(a,h)anthracene	742		25	5.2
206-44-0	Fluoranthene	1800		25	5.1
86-73-7	Fluorene	654		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	847		25	9.0
90-12-0	1-Methylnaphthalene	882		51	5.6
91-57-6	2-Methylnaphthalene	844		51	9.0
91-20-3	Naphthalene	772		51	5.6
85-01-8	Phenanthrene	1400		10	4.9
129-00-0	Pyrene	1640		25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27030.D
Lab Smp Id: 680-88420-a-12-b ms
Inj Date : 27-MAR-2013 19:03
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88420-a-12-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 30 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.210	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	3.727	3.727	(1.000)	748184	40.0000	
* 6 Acenaphthene-d10	164	4.815	4.815	(1.000)	600094	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.762	(1.000)	1084844	40.0000	
$ 14 o-Terphenyl	230	6.015	6.015	(1.044)	115668	7.06184	464.2894
* 18 Chrysene-d12	240	7.709	7.704	(1.000)	1208629	40.0000	
* 23 Perylene-d12	264	8.892	8.886	(1.000)	1100846	40.0000	
2 Naphthalene	128	3.739	3.739	(1.003)	178462	9.16221	602.3804
3 2-Methylnaphthalene	142	4.168	4.168	(1.118)	130043	10.0089	658.0482
4 1-Methylnaphthalene	142	4.227	4.227	(1.134)	123790	10.4612	687.7839
5 Acenaphthylene	152	4.727	4.727	(0.982)	177733	7.34619	482.9841
7 Acenaphthene	154	4.833	4.833	(1.004)	116885	7.77271	511.0263
9 Fluorene	166	5.157	5.157	(1.071)	147513	7.75645	509.9570
11 Phenanthrene	178	5.780	5.780	(1.003)	521480	16.6241	1092.9724(R)
12 Anthracene	178	5.815	5.815	(1.009)	280951	9.15789	602.0964

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921	(1.028)	218265	8.00352	526.2012
15 Fluoranthene	202	6.615	6.615	(1.148)	733891	21.3634	1404.5624(R)
16 Pyrene	202	6.786	6.786	(0.880)	631812	19.4522	1278.9112(R)
17 Benzo(a)anthracene	228	7.698	7.698	(0.998)	487548	13.9765	918.9031(R)
19 Chrysene	228	7.727	7.727	(1.002)	514620	14.7415	969.1989(R)
20 Benzo(b)fluoranthene	252	8.545	8.539	(0.961)	511774	17.7890	1169.5566(R)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.963)	362984	12.2992	808.6281
22 Benzo(a)pyrene	252	8.833	8.833	(0.993)	366824	13.1270	863.0481(R)
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.130)	264054	10.0448	660.4062(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.132)	226427	8.80592	578.9556
26 Benzo(g,h,i)perylene	276	10.403	10.397	(1.170)	275867	10.0318	659.5558

QC Flag Legend

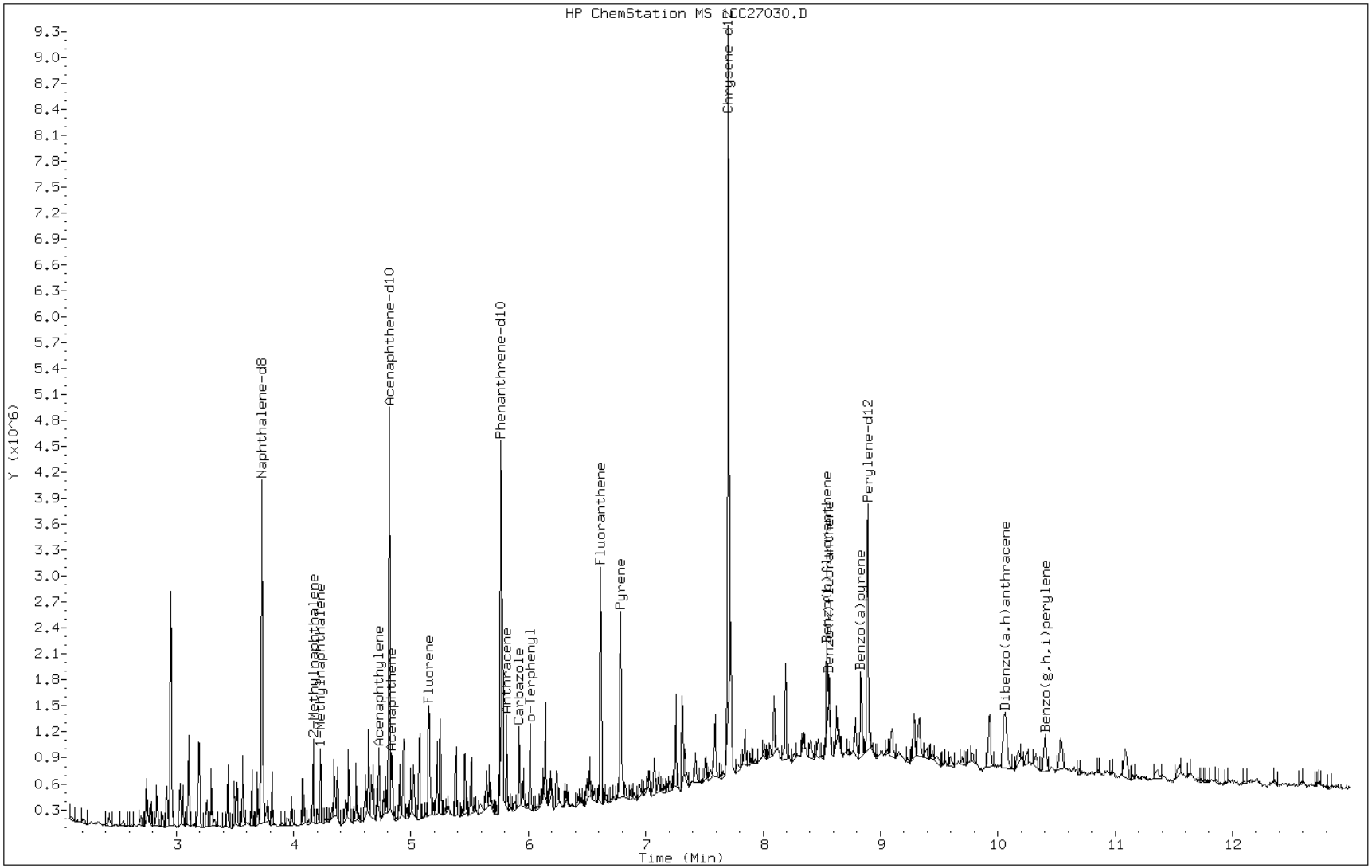
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CC27030.D

Date: 27-MAR-2013 19:03

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88420-a-12-b ms Operator: SCC



Manual Integration Report

Data File: 1CC27030.D
Inj. Date and Time: 27-MAR-2013 19:03
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

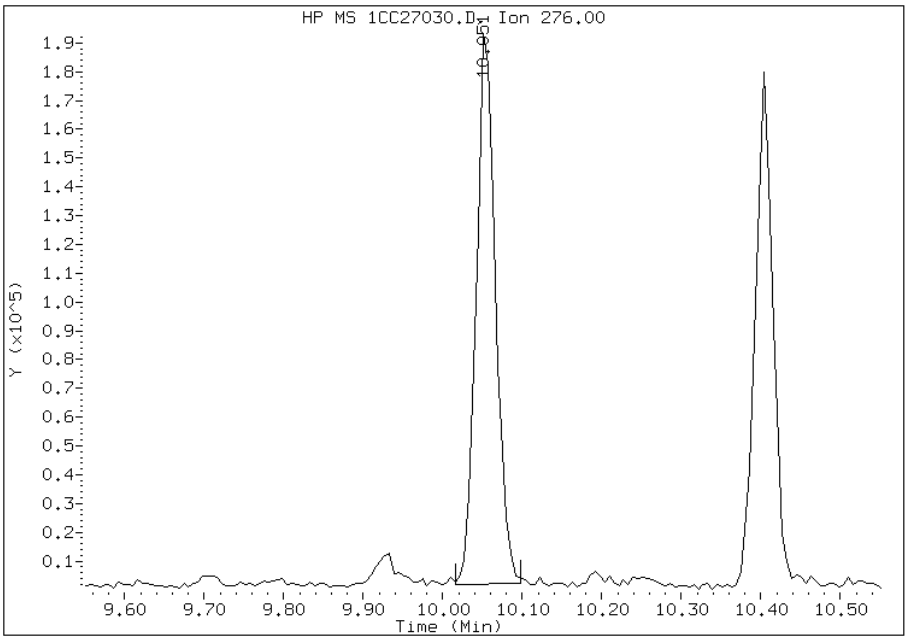
Processing Integration Results

RT: 10.05

Response: 320451

Amount: 12

Conc: 801



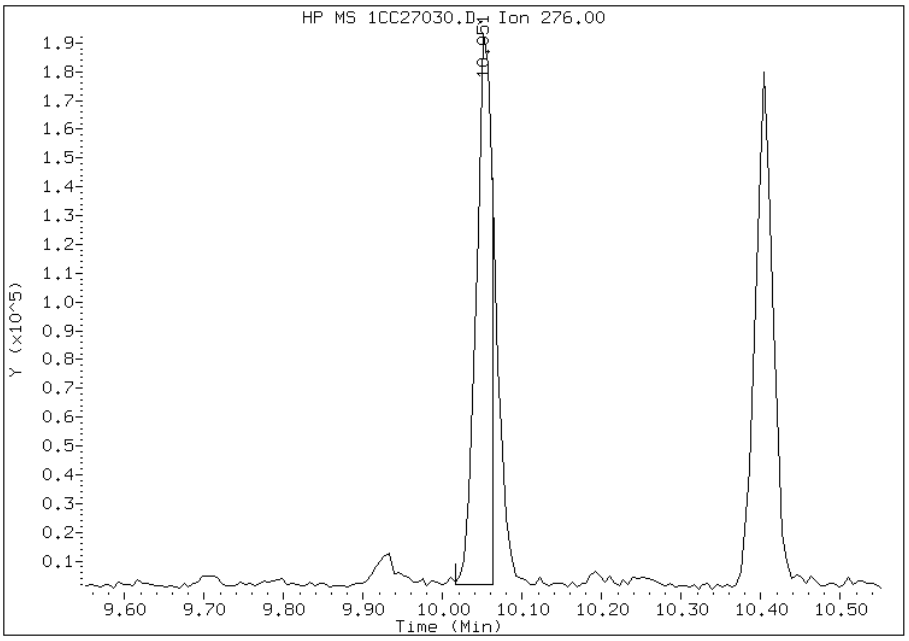
Manual Integration Results

RT: 10.05

Response: 264054

Amount: 10

Conc: 660



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0865B-CS-SP MS | Lab Sample ID: 680-88420-26 MS

Matrix: Solid | Lab File ID: 1CC25013.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 13:22

Extract. Method: 3546 | Date Extracted: 03/22/2013 13:10

Sample wt/vol: 15.02(g) | Date Analyzed: 03/25/2013 15:38

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

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

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135753 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	541		120	24
208-96-8	Acenaphthylene	565		48	6.0
120-12-7	Anthracene	557		10	5.0
56-55-3	Benzo[a]anthracene	829		9.6	4.7
50-32-8	Benzo[a]pyrene	672		12	6.2
205-99-2	Benzo[b]fluoranthene	868		15	7.3
191-24-2	Benzo[g,h,i]perylene	545		24	5.3
207-08-9	Benzo[k]fluoranthene	718		9.6	4.3
218-01-9	Chrysene	869		11	5.4
53-70-3	Dibenz(a,h)anthracene	498		24	4.9
206-44-0	Fluoranthene	976		24	4.8
86-73-7	Fluorene	608		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	524		24	8.5
90-12-0	1-Methylnaphthalene	1290		48	5.3
91-57-6	2-Methylnaphthalene	1180		48	8.5
91-20-3	Naphthalene	923		48	5.3
85-01-8	Phenanthrene	1030		9.6	4.7
129-00-0	Pyrene	1020		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\1CC25013.D
Lab Smp Id: 680-88420-a-26-b ms
Inj Date : 25-MAR-2013 15:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88420-a-26-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\a-bFASTPAHi-m.m
Meth Date : 25-Mar-2013 12:48 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 13 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.733	3.733	(1.000)	872507	40.0000	
* 6 Acenaphthene-d10	164	4.821	4.821	(1.000)	703765	40.0000	
* 10 Phenanthrene-d10	188	5.768	5.768	(1.000)	1359575	40.0000	
$ 14 o-Terphenyl	230	6.021	6.021	(1.044)	132562	6.45785	429.9500
* 18 Chrysene-d12	240	7.710	7.715	(1.000)	1566025	40.0000	
* 23 Perylene-d12	264	8.898	8.898	(1.000)	1503815	40.0000	
2 Naphthalene	128	3.745	3.745	(1.003)	262642	11.5627	769.8180
3 2-Methylnaphthalene	142	4.174	4.174	(1.118)	223099	14.7244	980.3184(R)
4 1-Methylnaphthalene	142	4.233	4.233	(1.134)	223258	16.1786	1077.1403(R)
5 Acenaphthylene	152	4.733	4.733	(0.982)	200846	7.07862	471.2799
7 Acenaphthene	154	4.839	4.839	(1.004)	119529	6.77764	451.2411
9 Fluorene	166	5.157	5.162	(1.070)	169720	7.60952	506.6256
11 Phenanthrene	178	5.786	5.786	(1.003)	506232	12.8770	857.3231
12 Anthracene	178	5.816	5.821	(1.008)	268343	6.97942	464.6748

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.927	5.927	(1.028)	229254	6.70777	446.5891
15 Fluoranthene	202	6.621	6.621	(1.148)	526299	12.2246	813.8895
16 Pyrene	202	6.786	6.792	(0.880)	537206	12.7649	849.8592
17 Benzo(a)anthracene	228	7.704	7.703	(0.999)	469271	10.3824	691.2412
19 Chrysene	228	7.727	7.733	(1.002)	492080	10.8789	724.2951
20 Benzo(b)fluoranthene	252	8.545	8.550	(0.960)	427306	10.8728	723.8914
21 Benzo(k)fluoranthene	252	8.568	8.574	(0.963)	362627	8.99462	598.8429
22 Benzo(a)pyrene	252	8.839	8.845	(0.993)	321172	8.41349	560.1526
24 Indeno(1,2,3-cd)pyrene	276	10.056	10.062	(1.130)	235411	6.55551	436.4521(M)
25 Dibenzo(a,h)anthracene	278	10.074	10.080	(1.132)	219152	6.23913	415.3880
26 Benzo(g,h,i)perylene	276	10.409	10.415	(1.170)	256553	6.82952	454.6951

QC Flag Legend

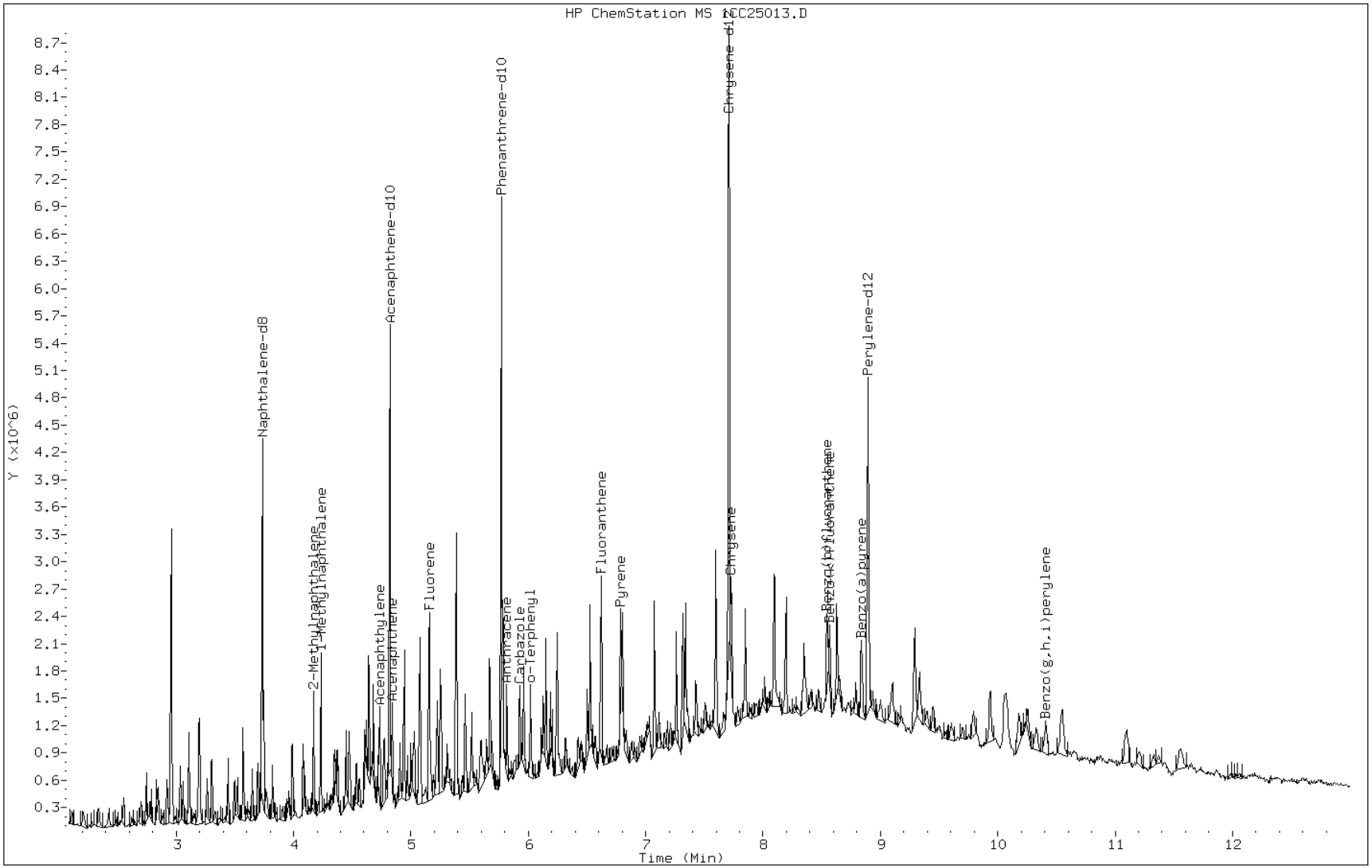
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CC25013.D

Date: 25-MAR-2013 15:38

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-b ms Operator: SCC



Manual Integration Report

Data File: 1CC25013.D
Inj. Date and Time: 25-MAR-2013 15:38
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

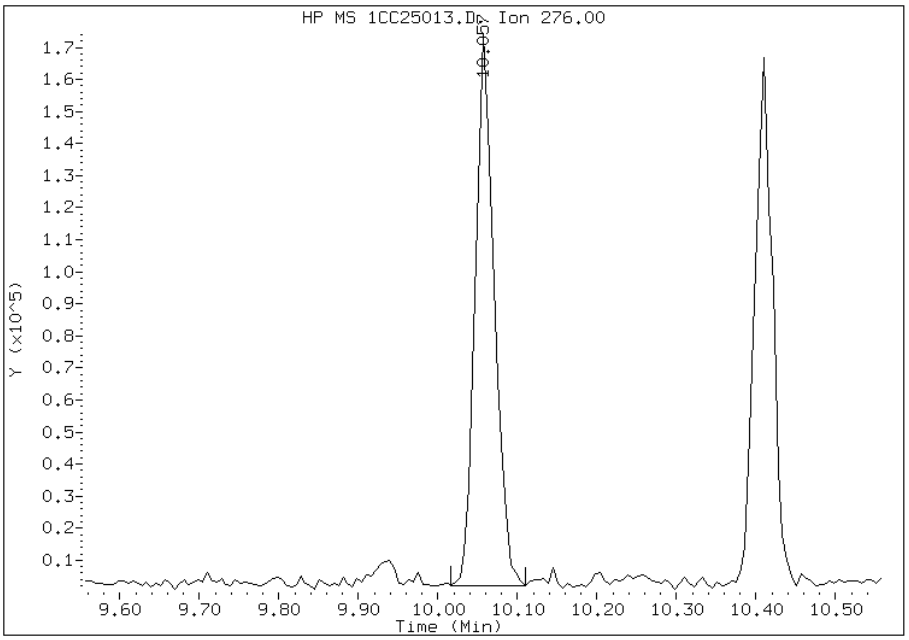
Processing Integration Results

RT: 10.06

Response: 283892

Amount: 8

Conc: 526



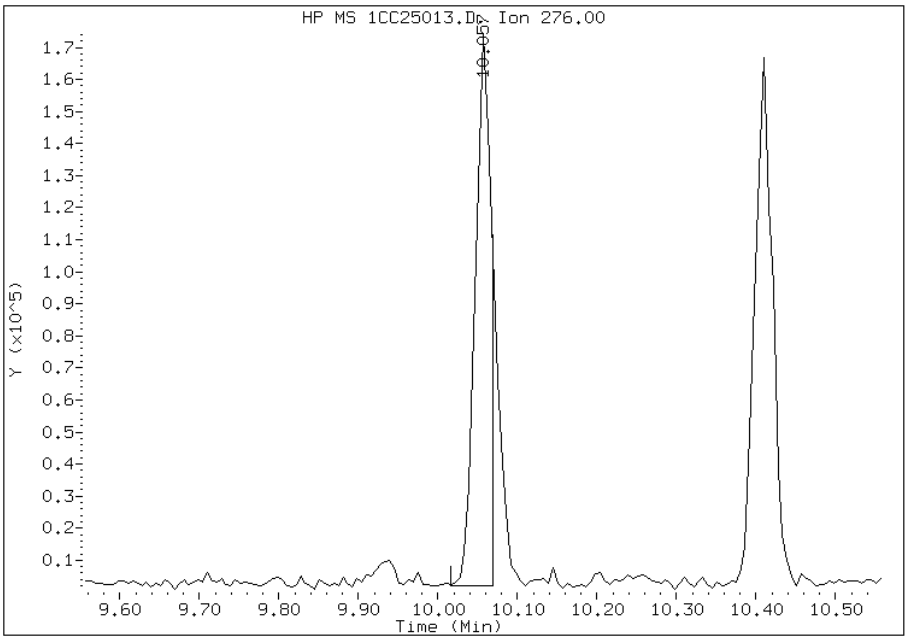
Manual Integration Results

RT: 10.06

Response: 235411

Amount: 7

Conc: 436



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 16:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88420-2
SDG No.: 68088420-2
Client Sample ID:
Lab Sample ID: 680-88420-A-12-C MSD
Matrix: Solid
Lab File ID: 1AC26009.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/21/2013 11:14
Sample wt/vol: 15.10(g)
Date Analyzed: 03/26/2013 13:08
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 22.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 135850
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	642		130	25
208-96-8	Acenaphthylene	624		51	6.4
120-12-7	Anthracene	682		11	5.3
56-55-3	Benzo[a]anthracene	997		10	5.0
50-32-8	Benzo[a]pyrene	703		13	6.6
205-99-2	Benzo[b]fluoranthene	1030		16	7.8
191-24-2	Benzo[g,h,i]perylene	691		25	5.6
207-08-9	Benzo[k]fluoranthene	701		10	4.6
218-01-9	Chrysene	1010		11	5.7
53-70-3	Dibenz(a,h)anthracene	733		25	5.2
206-44-0	Fluoranthene	1020		25	5.1
86-73-7	Fluorene	725		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	818		25	9.0
90-12-0	1-Methylnaphthalene	796		51	5.6
91-57-6	2-Methylnaphthalene	748		51	9.0
91-20-3	Naphthalene	683		51	5.6
85-01-8	Phenanthrene	1140		10	5.0
129-00-0	Pyrene	1100		25	4.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26009.D
Lab Smp Id: 680-88420-a-12-c ms
Inj Date : 26-MAR-2013 13:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88420-a-12-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.271	2.272	(1.000)	403465	40.0000	
* 6 Acenaphthene-d10	164	3.291	3.287	(1.000)	294426	40.0000	
* 10 Phenanthrene-d10	188	4.210	4.205	(1.000)	443904	40.0000	
$ 14 o-Terphenyl	230	4.482	4.478	(1.065)	42777	7.34583	486.4791
* 18 Chrysene-d12	240	6.197	6.193	(1.000)	337381	40.0000	
* 23 Perylene-d12	264	7.292	7.272	(1.000)	395007	40.0000	
2 Naphthalene	128	2.281	2.282	(1.005)	75023	8.04847	533.0111
3 2-Methylnaphthalene	141	2.682	2.683	(1.181)	45353	8.81185	583.5664
4 1-Methylnaphthalene	142	2.735	2.736	(1.205)	50244	9.37389	620.7871
5 Acenaphthylene	152	3.205	3.201	(0.974)	76864	7.34533	486.4460
7 Acenaphthene	154	3.307	3.308	(1.005)	44683	7.55490	500.3243
9 Fluorene	166	3.617	3.612	(1.099)	62188	8.53811	565.4376
11 Phenanthrene	178	4.220	4.221	(1.003)	151539	13.4694	892.0123(R)
12 Anthracene	178	4.252	4.253	(1.010)	87653	8.03497	532.1172

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.413	4.408	(1.048)	68245	7.13752	472.6833
15 Fluoranthene	202	5.070	5.065	(1.204)	133770	12.0284	796.5836
16 Pyrene	202	5.230	5.226	(0.844)	124785	12.8997	854.2837
17 Benzo(a)anthracene	228	6.192	6.177	(0.999)	113266	11.7456	777.8534
19 Chrysene	228	6.213	6.209	(1.003)	104200	11.9245	789.7035
20 Benzo(b)fluoranthene	252	7.009	6.994	(0.961)	118880	12.1247	802.9623
21 Benzo(k)fluoranthene	252	7.025	7.015	(0.963)	87917	8.25127	546.4414
22 Benzo(a)pyrene	252	7.239	7.224	(0.993)	76701	8.27410	547.9539
24 Indeno(1,2,3-cd)pyrene	276	8.003	7.972	(1.097)	80538	9.62871	637.6628(M)
25 Dibenzo(a,h)anthracene	278	8.008	7.982	(1.098)	71530	8.62860	571.4306
26 Benzo(g,h,i)perylene	276	8.179	8.148	(1.122)	68550	8.14174	539.1878

QC Flag Legend

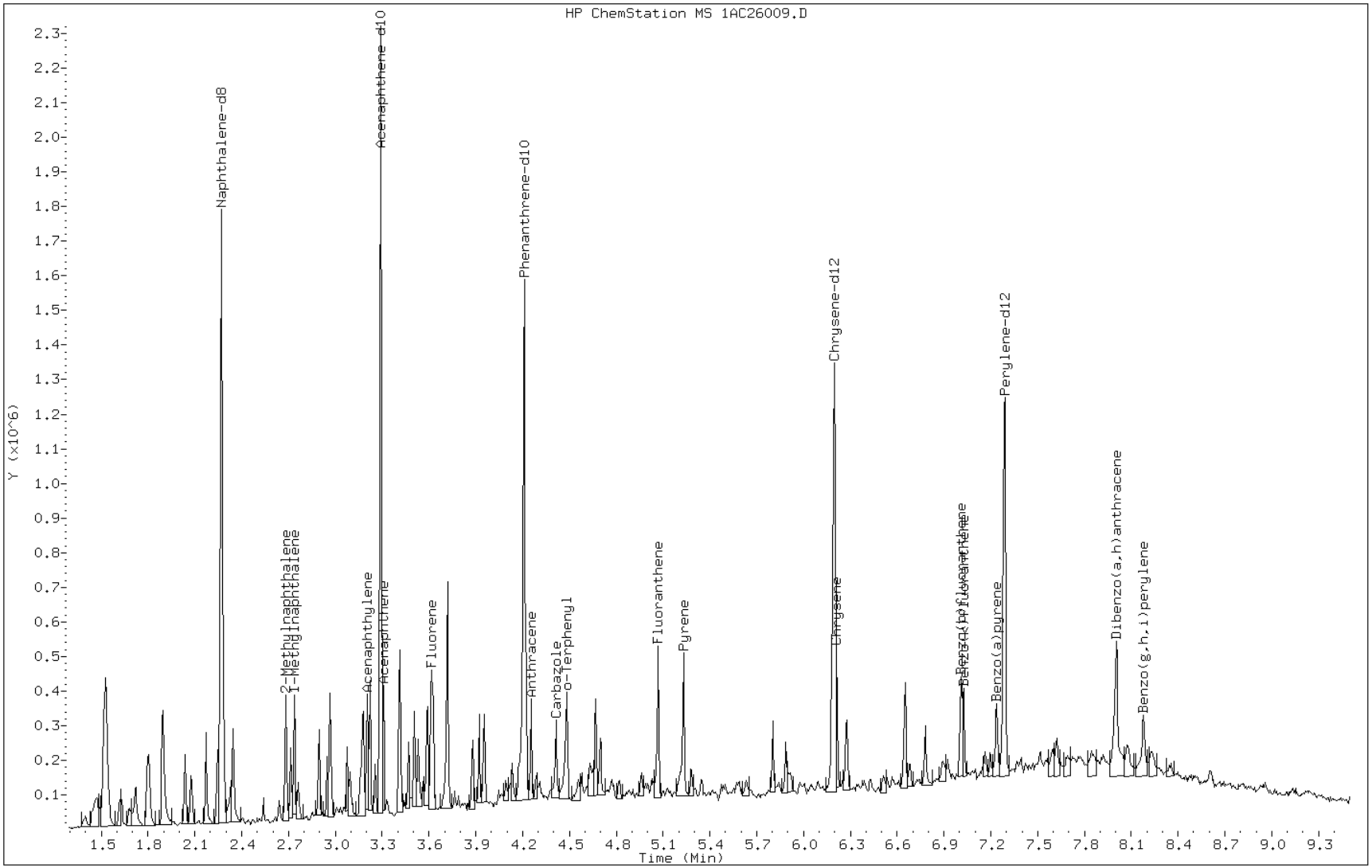
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AC26009.D

Date: 26-MAR-2013 13:08

Client ID: Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-c msd Operator: SCC



Manual Integration Report

Data File: 1AC26009.D
Inj. Date and Time: 26-MAR-2013 13:08
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

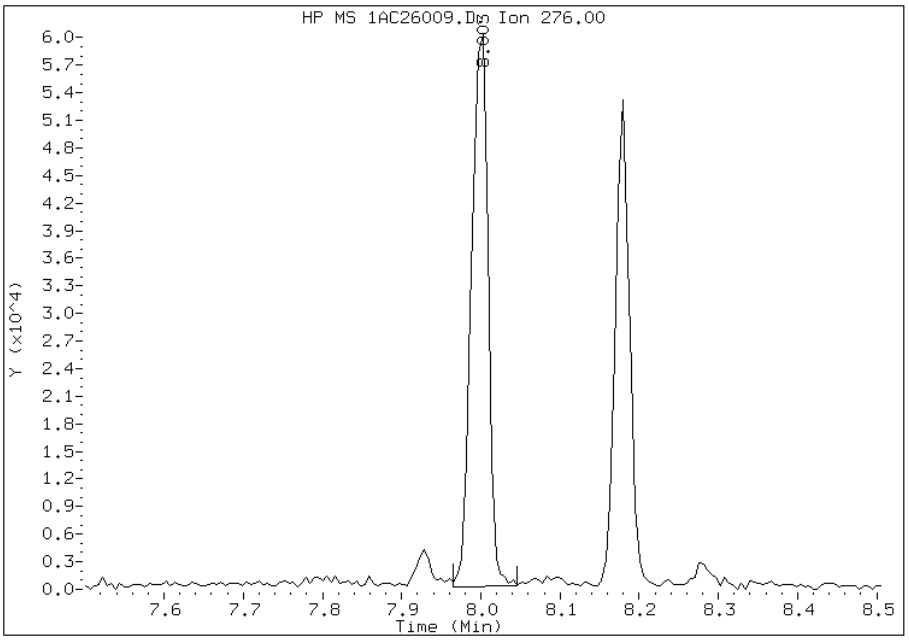
Processing Integration Results

RT: 8.00

Response: 86961

Amount: 10

Conc: 689



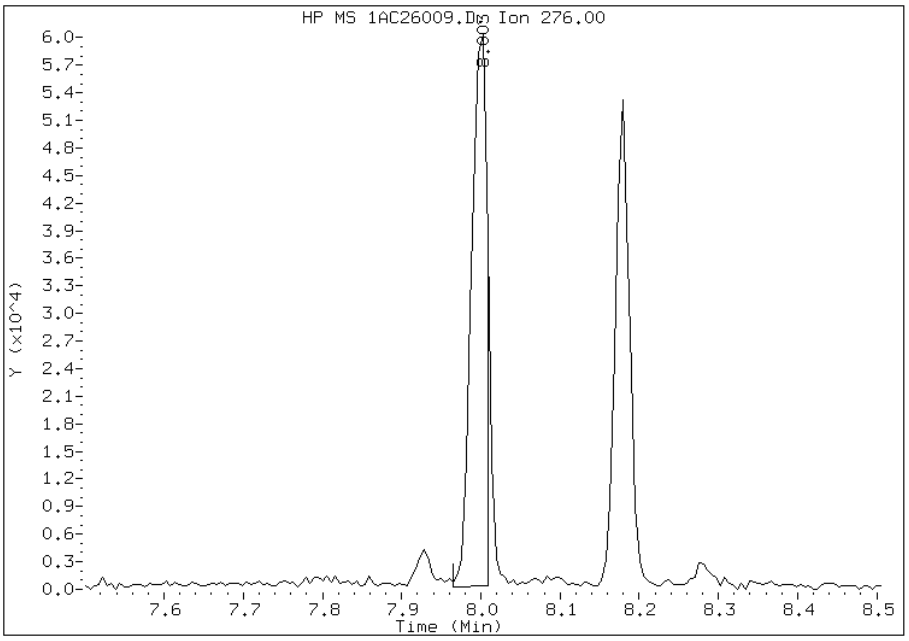
Manual Integration Results

RT: 8.00

Response: 80538

Amount: 10

Conc: 638



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 11:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88420-2

SDG No.: 68088420-2

Client Sample ID: CV0865B-CS-SP MSD | Lab Sample ID: 680-88420-26 MSD

Matrix: Solid | Lab File ID: 1CC25014.D

Analysis Method: 8270C LL | Date Collected: 03/14/2013 13:22

Extract. Method: 3546 | Date Extracted: 03/22/2013 13:10

Sample wt/vol: 15.02(g) | Date Analyzed: 03/25/2013 15:57

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

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

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135753 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	543		120	24
208-96-8	Acenaphthylene	631		48	6.0
120-12-7	Anthracene	608		10	5.0
56-55-3	Benzo[a]anthracene	898		9.6	4.7
50-32-8	Benzo[a]pyrene	805		12	6.2
205-99-2	Benzo[b]fluoranthene	1010		15	7.3
191-24-2	Benzo[g,h,i]perylene	645		24	5.3
207-08-9	Benzo[k]fluoranthene	786		9.6	4.3
218-01-9	Chrysene	937		11	5.4
53-70-3	Dibenz(a,h)anthracene	610		24	4.9
206-44-0	Fluoranthene	1000		24	4.8
86-73-7	Fluorene	648		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	613		24	8.5
90-12-0	1-Methylnaphthalene	1420		48	5.3
91-57-6	2-Methylnaphthalene	1380		48	8.5
91-20-3	Naphthalene	1080		48	5.3
85-01-8	Phenanthrene	1090		9.6	4.7
129-00-0	Pyrene	1060		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\1CC25014.D
Lab Smp Id: 680-88420-a-26-c ms
Inj Date : 25-MAR-2013 15:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88420-a-26-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\a-bFASTPAHi-m.m
Meth Date : 25-Mar-2013 12:48 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 14 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.733	3.733	(1.000)	940113	40.0000	
* 6 Acenaphthene-d10	164	4.821	4.821	(1.000)	776204	40.0000	
* 10 Phenanthrene-d10	188	5.768	5.768	(1.000)	1476412	40.0000	
$ 14 o-Terphenyl	230	6.021	6.021	(1.044)	159086	7.13668	475.1454
* 18 Chrysene-d12	240	7.709	7.715	(1.000)	1704735	40.0000	
* 23 Perylene-d12	264	8.897	8.898	(1.000)	1546217	40.0000	
2 Naphthalene	128	3.745	3.745	(1.003)	330907	13.5204	900.1579(R)
3 2-Methylnaphthalene	142	4.174	4.174	(1.118)	282571	17.3084	1152.3542(R)
4 1-Methylnaphthalene	142	4.233	4.233	(1.134)	264484	17.7878	1184.2776(R)
5 Acenaphthylene	152	4.733	4.733	(0.982)	247152	7.89772	525.8134
7 Acenaphthene	154	4.839	4.839	(1.004)	132191	6.79609	452.4693
9 Fluorene	166	5.157	5.162	(1.070)	199638	8.11557	540.3176
11 Phenanthrene	178	5.786	5.786	(1.003)	584137	13.6828	910.9725(R)
12 Anthracene	178	5.815	5.821	(1.008)	317851	7.61286	506.8483

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.927	5.927	(1.028)	296237	7.98171	531.4055
15 Fluoranthene	202	6.621	6.621	(1.148)	587974	12.5764	837.3106
16 Pyrene	202	6.792	6.792	(0.881)	606732	13.2439	881.7487(R)
17 Benzo(a)anthracene	228	7.703	7.703	(0.999)	553353	11.2466	748.7727
19 Chrysene	228	7.733	7.733	(1.003)	577779	11.7342	781.2381
20 Benzo(b)fluoranthene	252	8.550	8.550	(0.961)	508933	12.5947	838.5308
21 Benzo(k)fluoranthene	252	8.574	8.574	(0.964)	407742	9.83631	654.8807
22 Benzo(a)pyrene	252	8.845	8.845	(0.994)	395864	10.0858	671.4887
24 Indeno(1,2,3-cd)pyrene	276	10.068	10.062	(1.132)	283319	7.67325	510.8689(M)
25 Dibenzo(a,h)anthracene	278	10.080	10.080	(1.133)	275887	7.63895	508.5852
26 Benzo(g,h,i)perylene	276	10.415	10.415	(1.171)	311910	8.07544	537.6461

QC Flag Legend

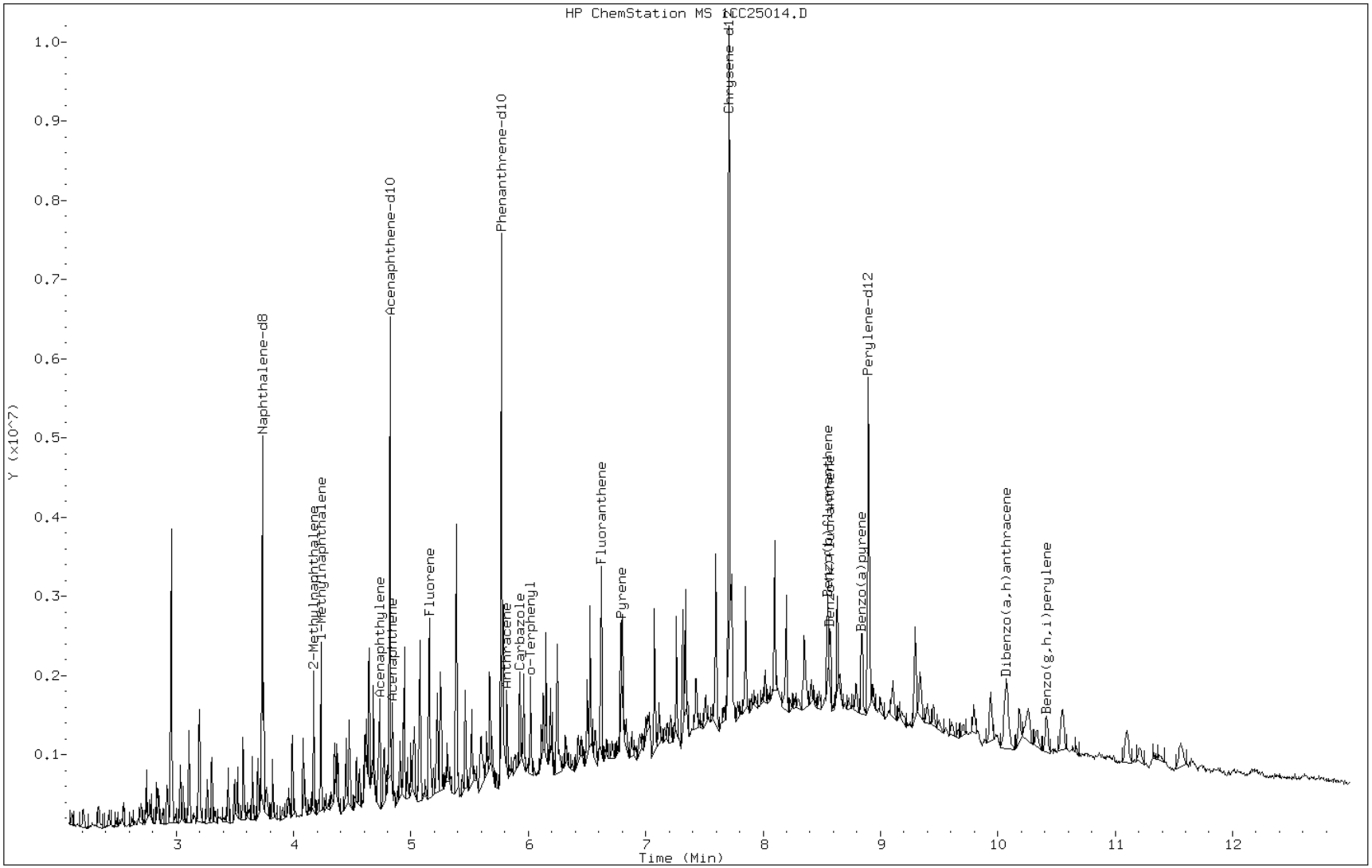
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CC25014.D

Date: 25-MAR-2013 15:57

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88420-a-26-c msd Operator: SCC



Manual Integration Report

Data File: 1CC25014.D
Inj. Date and Time: 25-MAR-2013 15:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

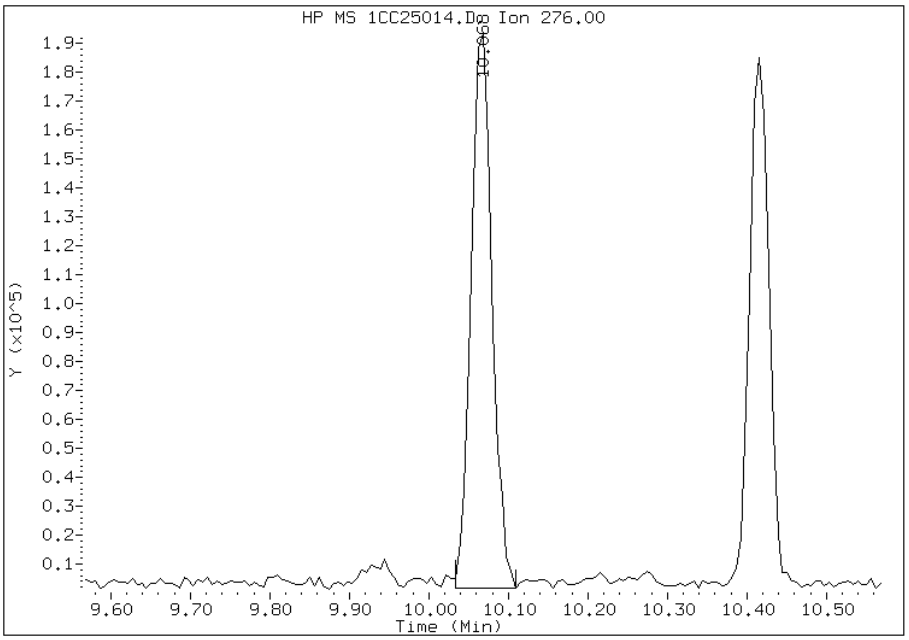
Processing Integration Results

RT: 10.07

Response: 348823

Amount: 9

Conc: 629



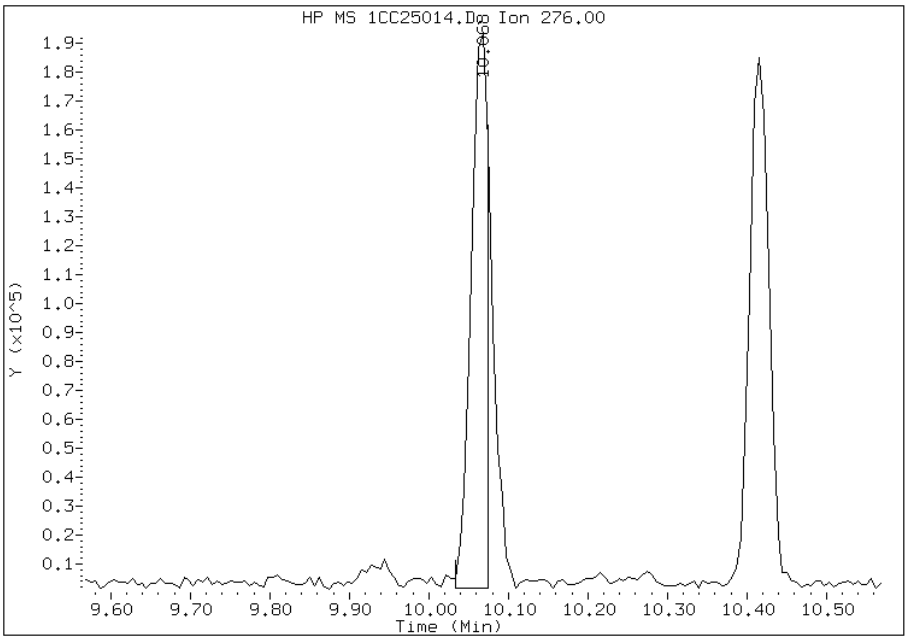
Manual Integration Results

RT: 10.07

Response: 283319

Amount: 8

Conc: 511



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 16:12
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMA5973 Start Date: 03/15/2013 12:08

Analysis Batch Number: 135466 End Date: 03/15/2013 21:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/15/2013 12:08	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 12:23	1		DB-5MS 250(um)
DFTPP 660-135466/2		03/15/2013 12:38	1	1AC15002.D	DB-5MS 250(um)
ICIS 660-135466/3		03/15/2013 12:54	1	1AC15003.D	DB-5MS 250(um)
IC 660-135466/4		03/15/2013 13:09	1	1AC15004.D	DB-5MS 250(um)
IC 660-135466/5		03/15/2013 13:24	1	1AC15005.D	DB-5MS 250(um)
IC 660-135466/6		03/15/2013 13:39	1	1AC15006.D	DB-5MS 250(um)
IC 660-135466/7		03/15/2013 13:54	1	1AC15007.D	DB-5MS 250(um)
IC 660-135466/8		03/15/2013 14:10	1	1AC15008.D	DB-5MS 250(um)
IC 660-135466/9		03/15/2013 14:25	1	1AC15009.D	DB-5MS 250(um)
ICV 660-135466/10		03/15/2013 14:39	1	1AC15010.D	DB-5MS 250(um)
ZZZZZ		03/15/2013 15:17	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 15:32	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 15:47	4		DB-5MS 250(um)
ZZZZZ		03/15/2013 16:02	4		DB-5MS 250(um)
ZZZZZ		03/15/2013 16:17	4		DB-5MS 250(um)
ZZZZZ		03/15/2013 16:33	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 16:48	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 17:03	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 17:18	4		DB-5MS 250(um)
ZZZZZ		03/15/2013 17:33	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 17:49	4		DB-5MS 250(um)
ZZZZZ		03/15/2013 18:04	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 18:19	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 18:34	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 18:49	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 19:05	4		DB-5MS 250(um)
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ZZZZZ		03/15/2013 19:35	1		DB-5MS 250(um)
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ZZZZZ		03/15/2013 20:05	4		DB-5MS 250(um)
ZZZZZ		03/15/2013 20:21	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 20:36	4		DB-5MS 250(um)
ZZZZZ		03/15/2013 20:51	1		DB-5MS 250(um)
ZZZZZ		03/15/2013 21:06	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMA5973 Start Date: 03/26/2013 10:45

Analysis Batch Number: 135850 End Date: 03/26/2013 21:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/26/2013 10:45	1		DB-5MS 250(um)
ZZZZZ		03/26/2013 11:00	1		DB-5MS 250(um)
DFTPP 660-135850/2		03/26/2013 11:15	1	1AC26002.D	DB-5MS 250(um)
CCVIS 660-135850/3		03/26/2013 11:28	1	1AC26003.D	DB-5MS 250(um)
ZZZZZ		03/26/2013 11:44	1		DB-5MS 250(um)
MB 660-135631/1-A		03/26/2013 11:59	1	1AC26005.D	DB-5MS 250(um)
LCS 660-135631/2-A		03/26/2013 12:15	1	1AC26006.D	DB-5MS 250(um)
ZZZZZ		03/26/2013 12:30	1		DB-5MS 250(um)
680-88420-A-12-C MSD		03/26/2013 13:08	1	1AC26009.D	DB-5MS 250(um)
ZZZZZ		03/26/2013 13:23	1		DB-5MS 250(um)
ZZZZZ		03/26/2013 13:39	1		DB-5MS 250(um)
ZZZZZ		03/26/2013 15:15	1		DB-5MS 250(um)
ZZZZZ		03/26/2013 15:30	1		DB-5MS 250(um)
ZZZZZ		03/26/2013 15:45	1		DB-5MS 250(um)
ZZZZZ		03/26/2013 16:38	1		DB-5MS 250(um)
ZZZZZ		03/26/2013 16:53	1		DB-5MS 250(um)
680-88420-23	CV0353A-CS-SP	03/26/2013 17:08	1	1AC26018.D	DB-5MS 250(um)
680-88420-24	CV0353B-CS-SP	03/26/2013 17:23	1	1AC26019.D	DB-5MS 250(um)
680-88420-25	CV0865A-CS-SP	03/26/2013 17:38	1	1AC26020.D	DB-5MS 250(um)
ZZZZZ		03/26/2013 17:54	1		DB-5MS 250(um)
680-88420-28	CV0770B-CS-SP	03/26/2013 18:09	1	1AC26022.D	DB-5MS 250(um)
680-88420-29	CV0766A-CS-SP	03/26/2013 18:24	1	1AC26023.D	DB-5MS 250(um)
680-88420-30	CV0968A-CS-SP	03/26/2013 18:39	1	1AC26024.D	DB-5MS 250(um)
680-88420-31	CV0968B-CS-SP	03/26/2013 18:54	1	1AC26025.D	DB-5MS 250(um)
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680-88420-36	CV0292B-CS-SP	03/26/2013 19:24	1	1AC26027.D	DB-5MS 250(um)
680-88420-37	CV0292C-CS-SP	03/26/2013 19:39	1	1AC26028.D	DB-5MS 250(um)
ZZZZZ		03/26/2013 19:54	4		DB-5MS 250(um)
ZZZZZ		03/26/2013 20:09	1		DB-5MS 250(um)
ZZZZZ		03/26/2013 20:24	4		DB-5MS 250(um)
ZZZZZ		03/26/2013 20:40	4		DB-5MS 250(um)
ZZZZZ		03/26/2013 20:54	1		DB-5MS 250(um)
ZZZZZ		03/26/2013 21:10	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMC5973 Start Date: 02/22/2013 11:04

Analysis Batch Number: 134776 End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250(um)
DFTPP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250(um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250(um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250(um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250(um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250(um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250(um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250(um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250(um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250(um)
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ZZZZZ		02/22/2013 15:40	4		DB-5MS 250(um)
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ZZZZZ		02/22/2013 16:53	1		DB-5MS 250(um)
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ZZZZZ		02/22/2013 17:48	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250(um)
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ZZZZZ		02/22/2013 18:43	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMC5973 Start Date: 03/25/2013 11:38

Analysis Batch Number: 135753 End Date: 03/25/2013 22:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
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ZZZZZ		03/25/2013 11:56	1		DB-5MS 250(um)
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CCVIS 660-135753/3		03/25/2013 12:33	1	1CC25003.D	DB-5MS 250(um)
ZZZZZ		03/25/2013 12:53	1		DB-5MS 250(um)
MB 660-135688/1-A		03/25/2013 13:11	1	1CC25005.D	DB-5MS 250(um)
LCS 660-135688/2-A		03/25/2013 13:30	1	1CC25006.D	DB-5MS 250(um)
ZZZZZ		03/25/2013 13:48	1		DB-5MS 250(um)
ZZZZZ		03/25/2013 14:06	1		DB-5MS 250(um)
ZZZZZ		03/25/2013 14:24	1		DB-5MS 250(um)
ZZZZZ		03/25/2013 14:43	1		DB-5MS 250(um)
ZZZZZ		03/25/2013 15:01	1		DB-5MS 250(um)
680-88420-26	CV0865B-CS-SP	03/25/2013 15:20	1	1CC25012.D	DB-5MS 250(um)
680-88420-26 MS	CV0865B-CS-SP MS	03/25/2013 15:38	1	1CC25013.D	DB-5MS 250(um)
680-88420-26 MSD	CV0865B-CS-SP MSD	03/25/2013 15:57	1	1CC25014.D	DB-5MS 250(um)
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ZZZZZ		03/25/2013 18:09	1		DB-5MS 250(um)
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ZZZZZ		03/25/2013 20:18	1		DB-5MS 250(um)
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ZZZZZ		03/25/2013 21:13	1		DB-5MS 250(um)
ZZZZZ		03/25/2013 21:31	4		DB-5MS 250(um)
ZZZZZ		03/25/2013 21:49	1		DB-5MS 250(um)
ZZZZZ		03/25/2013 22:08	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: BSMC5973 Start Date: 03/27/2013 09:41

Analysis Batch Number: 135830 End Date: 03/27/2013 20:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/27/2013 09:41	1		DB-5MS 250(um)
ZZZZZ		03/27/2013 09:59	1		DB-5MS 250(um)
DFTPP 660-135830/2		03/27/2013 10:18	1	1CC27002.D	DB-5MS 250(um)
CCVIS 660-135830/3		03/27/2013 10:35	1	1CC27003.D	DB-5MS 250(um)
ZZZZZ		03/27/2013 10:53	1		DB-5MS 250(um)
ZZZZZ		03/27/2013 11:26	1		DB-5MS 250(um)
ZZZZZ		03/27/2013 11:44	1		DB-5MS 250(um)
ZZZZZ		03/27/2013 12:02	1		DB-5MS 250(um)
ZZZZZ		03/27/2013 12:20	4		DB-5MS 250(um)
ZZZZZ		03/27/2013 12:39	4		DB-5MS 250(um)
ZZZZZ		03/27/2013 12:57	4		DB-5MS 250(um)
ZZZZZ		03/27/2013 16:18	1		DB-5MS 250(um)
680-88420-A-12-B MS		03/27/2013 19:03	1	1CC27030.D	DB-5MS 250(um)
ZZZZZ		03/27/2013 19:21	1		DB-5MS 250(um)
ZZZZZ		03/27/2013 19:39	4		DB-5MS 250(um)
680-88420-21	CV1037A-CS	03/27/2013 19:58	1	1CC27033.D	DB-5MS 250(um)
680-88420-22	CV1037B-CS	03/27/2013 20:16	1	1CC27034.D	DB-5MS 250(um)
680-88420-27	CV0770A-CS-SP	03/27/2013 20:34	1	1CC27035.D	DB-5MS 250(um)
680-88420-35	CV0292A-CS-SP	03/27/2013 20:53	1	1CC27036.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Batch Number: 135631 Batch Start Date: 03/21/13 11:14 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/21/13 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
MB 660-135631/1		3546, 8270C LL		15.40 g	1 mL		1 mL		
LCS 660-135631/2		3546, 8270C LL		15.31 g	1 mL	1 mL	1 mL		
680-88420-A-12 MS		3546, 8270C LL	T	15.21 g	1 mL	1 mL	1 mL		
680-88420-A-12 MSD		3546, 8270C LL	T	15.10 g	1 mL	1 mL	1 mL		
680-88420-A-21	CV1037A-CS	3546, 8270C LL	T	14.91 g	1 mL		1 mL		
680-88420-A-22	CV1037B-CS	3546, 8270C LL	T	15.49 g	1 mL		1 mL		
680-88420-A-23	CV0353A-CS-SP	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-88420-A-24	CV0353B-CS-SP	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-88420-A-25	CV0865A-CS-SP	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-88420-A-27	CV0770A-CS-SP	3546, 8270C LL	T	15.14 g	1 mL		1 mL		
680-88420-A-28	CV0770B-CS-SP	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-88420-A-29	CV0766A-CS-SP	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-88420-A-30	CV0968A-CS-SP	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-88420-A-31	CV0968B-CS-SP	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-88420-A-35	CV0292A-CS-SP	3546, 8270C LL	T	15.39 g	1 mL		1 mL		
680-88420-A-36	CV0292B-CS-SP	3546, 8270C LL	T	15.25 g	1 mL		1 mL		
680-88420-A-37	CV0292C-CS-SP	3546, 8270C LL	T	15.04 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.: 680-88420-2

SDG No.: 68088420-2

Batch Number: 135631 Batch Start Date: 03/21/13 11:14 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/21/13 17:00

Batch Notes	
Acetone Lot #	EX-ACETON BOT_49
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-M CYCL 54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	DCM/ACETON 48
Microwave Start Time	13:05 3/21/13
Microwave Stop Time	13:40 3/21/13
Na2SO4 Lot Number	EX-NA2S04A_64
Ottawa Sand Lot #	EX-OTTOWA SAND 13
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	RN
Surrogate Lot Number	EXLLSURINT_177
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.: 680-88420-2

SDG No.: 68088420-2

Batch Number: 135688 Batch Start Date: 03/22/13 13:10 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/25/13 10:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177	EXLLSURINT 00178	
MB 660-135688/1		3546, 8270C LL		15.05 g	1 mL		1 mL		
LCS 660-135688/2		3546, 8270C LL		15.14 g	1 mL	1 mL	1 mL		
680-88420-A-26	CV0865B-CS-SP	3546, 8270C LL	T	15.02 g	1 mL			1 mL	
680-88420-A-26 MS	CV0865B-CS-SP	3546, 8270C LL	T	15.02 g	1 mL	1 mL		1 mL	
680-88420-A-26 MSD	CV0865B-CS-SP	3546, 8270C LL	T	15.02 g	1 mL	1 mL		1 mL	

Batch Notes	
Acetone Lot #	EX-ACETON BOT 49
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL 54
Exchange Solvent Name	DCM
Final Concentrator Volume	1ML mL
MeCL2 Lot #	EX-MC CYCL 54
MeCl2/Acetone Lot #	DCM/ACETON 49
Microwave Start Time	14:50 3/22/13
Microwave Stop Time	15:25 3/22/13
Na2SO4 Lot Number	X-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 13
Person's name who did the prep	SAUREL
SOP Number	TPEX 014
Person who witnessed spiking	NR
Surrogate Lot Number	EXLLSURINT 177/178
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Batch Number: 135688 Batch Start Date: 03/22/13 13:10 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/25/13 10:00

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: 680-88420-2

SDG No.: 68088420-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV1037A-CS	680-88420-21
CV1037B-CS	680-88420-22
CV0353A-CS-SP	680-88420-23
CV0353B-CS-SP	680-88420-24
CV0865A-CS-SP	680-88420-25
CV0865B-CS-SP	680-88420-26
CV0770A-CS-SP	680-88420-27
CV0770B-CS-SP	680-88420-28
CV0766A-CS-SP	680-88420-29
CV0968A-CS-SP	680-88420-30
CV0968B-CS-SP	680-88420-31
CV0292A-CS-SP	680-88420-35
CV0292B-CS-SP	680-88420-36
CV0292C-CS-SP	680-88420-37

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88420-2

SDG Number: 68088420-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88420-2

SDG Number: 68088420-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88420-2

SDG Number: 68088420-2

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88420-2

SDG Number: 68088420-2

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: Moisture Method: Moisture

Start Date: 03/21/2013 08:44 End Date: 03/21/2013 12:25

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-135642/12	1	T	08:44	X																			
LCS 660-135642/1	1	T	08:46	X																			
ZZZZZZ			09:04																				
ZZZZZZ			09:04																				
ZZZZZZ			09:36																				
ZZZZZZ			10:00																				
ZZZZZZ			10:07																				
ZZZZZZ			10:15																				
680-88420-26	1	T	11:56	X																			
ZZZZZZ			12:00																				
680-88420-26 MS	1	T	12:24	X																			
680-88420-26 MSD	1	T	12:25	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/22/2013 06:22 End Date: 03/22/2013 06:22

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-135659/1	1	T	06:22	X																			
ZZZZZZ			06:22																				
680-88420-28	1	T	06:22	X																			
680-88420-37	1	T	06:22	X																			
680-88420-36	1	T	06:22	X																			
680-88420-35	1	T	06:22	X																			
680-88420-23	1	T	06:22	X																			
680-88420-29	1	T	06:22	X																			
ZZZZZZ			06:22																				
680-88420-30	1	T	06:22	X																			
680-88420-31	1	T	06:22	X																			
680-88420-25	1	T	06:22	X																			
680-88420-27	1	T	06:22	X																			
680-88420-22	1	T	06:22	X																			
680-88420-24	1	T	06:22	X																			
680-88420-21	1	T	06:22	X																			
ZZZZZZ			06:22																				
ZZZZZZ			06:22																				
ZZZZZZ			06:22																				
ZZZZZZ			06:22																				
ZZZZZZ			06:22																				
ZZZZZZ			06:22																				
ZZZZZZ			06:22																				
ZZZZZZ			06:22																				
ZZZZZZ			06:22																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-2

SDG No.: 68088420-2

Batch Number: 135642 Batch Start Date: 03/21/13 08:44 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-135642/1		Moisture		0 g	10.055 g	9.007 g			
680-88420-A-26 MS	CV0865B-CS-SP	Moisture	T	0 g	4.309 g	3.489 g			
680-88420-A-26 MSD	CV0865B-CS-SP	Moisture	T	0 g	4.815 g	4.001 g			
680-88420-A-26	CV0865B-CS-SP	Moisture	T	0 g	4.659 g	3.884 g			
LCSD 660-135642/12		Moisture		0 g	10.038 g	9.034 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.: 680-88420-2

SDG No.: 68088420-2

Batch Number: 135659 Batch Start Date: 03/22/13 06:22 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-135659/1		Moisture		mb	0 g	9.26 g	9.25 g		
680-88420-A-28	CV0770B-CS-SP	Moisture	T	2	0 g	4.22 g	3.36 g		
680-88420-A-37	CV0292C-CS-SP	Moisture	T	3	0 g	5.00 g	3.64 g		
680-88420-A-36	CV0292B-CS-SP	Moisture	T	4	0 g	4.57 g	3.24 g		
680-88420-A-35	CV0292A-CS-SP	Moisture	T	6	0 g	4.93 g	3.48 g		
680-88420-A-23	CV0353A-CS-SP	Moisture	T	7	0 g	5.00 g	3.83 g		
680-88420-A-29	CV0766A-CS-SP	Moisture	T	5	0 g	4.58 g	3.24 g		
680-88420-A-30	CV0968A-CS-SP	Moisture	T	9	0 g	6.41 g	5.18 g		
680-88420-A-31	CV0968B-CS-SP	Moisture	T	10	0 g	5.03 g	4.07 g		
680-88420-A-25	CV0865A-CS-SP	Moisture	T	11	0 g	4.76 g	3.85 g		
680-88420-A-27	CV0770A-CS-SP	Moisture	T	12	0 g	4.84 g	3.84 g		
680-88420-A-22	CV1037B-CS	Moisture	T	13	0 g	4.21 g	3.55 g		
680-88420-A-24	CV0353B-CS-SP	Moisture	T	14	0 g	4.67 g	3.52 g		
680-88420-A-21	CV1037A-CS	Moisture	T	15	0 g	4.40 g	3.83 g		

Batch Notes	

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 63557

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 2 OF 4
35TH AVE REMOVAL	2005148-1356	AL			
TAL (LAB) PROJECT MANAGER: LISA HARVEY	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY ◯ DATE DUE
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX			EXPEDITED REPORT DELIVERY (SURCHARGE) ◯ DATE DUE

(b) (6)

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	REMARKS
3-14-13	1127	CV1151B-CS-SP	C		X			X	
	1220	CV0137A-CS	C		X			X	
	1250	FM0004A-CS	C		X			X	
	1250	FM0004A-CSD	C		X			X	
	1300	FM0004B-CS	C		X			X	
	1310	FM0004C-CS	C		X			X	
	1405	CV1035A-CS	C		X			X	
	1415	CV1035B-CS	C		X			X	
	1430	CV1037A-CS	C		X			X	
	1440	CV1037B-CS	C		X			X	
	1238	CV0353A-CS-SP	C		X			X	
	1250	CV0353B-CS-SP	C		X			X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-15-13	1000						
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]	3/16/13	0920	YES ◯ NO ◯		680-88420	3.4°C

TAL8240-680 (1008)

Serial Number 63558

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 3 OF 4
35TH AVE REMOVAL	200S148-1356	AL	
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	
LISA HARVEY			

(b) (6)

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE: LL PAH; RCRA-8 METALS

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA-8 METALS									REMARKS
3-14-13	1310	CV0865A-CS-SP	C		X			X										
	1322	CV0865B-CS-SP	C		X			X	X									
	1350	CV0770A-CS-SP	C		X			X										
	1400	CV0770B-CS-SP	C		X			X										
	1421	CV0766A-CS-SP	C		X			X	X									
	1521	CV0968A-CS-SP	C		X			X										
	1531	CV0968B-CS-SP	C		X			X										
	1119	CV1151A-CS-SP SIEVED	C		X				X									
	1322	CV0865B-CS-SP SIEVED	C		X				X									
	1421	CV0766A-CS-SP SIEVED	C		X				X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Carlos [illegible]	3-15-13	1000						
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
[illegible]	3/16/13	0920	YES ◯ NO ◯		680-88420	3.4°C

TAL8240-680 (1008)

Serial Number 63559

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	2005148-1356	AL	4	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
LISA HARVEY		

(b) (6)

STANDARD REPORT DELIVERY ◯
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LL PAH										REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
3-15-13	830	CV0292A-CS-SP	C		X			X										
	840	CV0292B-CS-SP	C		X			X										
	850	CV0292C-CS-SP	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-15-13	1200						
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]	3/16/13	0920	YES ◯ NO ◯		680-88920	3.4°C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-2
SDG Number: 68088420-2

Login Number: 88420
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-2
SDG Number: 68088420-2

Login Number: 88420
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 03/20/13 08:50 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-88420-2
TestAmerica Sample Delivery Group: 68088420-2
Client Project/Site: 35th Avenue Superfund Site

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

Attn: Ms. Limari F Krebs

Authorized for release by:
3/28/2013 4:39:51 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-88420-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88420-2

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

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

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

RECEIPT

The samples were received on 03/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1037A-CS (680-88420-21), CV1037B-CS (680-88420-22), CV0353A-CS-SP (680-88420-23), CV0353B-CS-SP (680-88420-24), CV0865A-CS-SP (680-88420-25), CV0865B-CS-SP (680-88420-26), CV0770A-CS-SP (680-88420-27), CV0770B-CS-SP (680-88420-28), CV0766A-CS-SP (680-88420-29), CV0968A-CS-SP (680-88420-30), CV0968B-CS-SP (680-88420-31), CV0292A-CS-SP (680-88420-35), CV0292B-CS-SP (680-88420-36) and CV0292C-CS-SP (680-88420-37) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/21/2013 and 03/22/2013 and analyzed on 03/25/2013, 03/26/2013 and 03/27/2013.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample CV0865B-CS-SP (680-88420-26) in batch 660-135753.

Several analytes recovered outside the recovery criteria high for the MS/MSD of sample 680-88420-12 in batch 660-135830. Several also exceeded the rpd limit for the MSD of sample 680-88420-12 in batch 660-135850.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88420-21	CV1037A-CS	Solid	03/14/13 14:30	03/16/13 09:20
680-88420-22	CV1037B-CS	Solid	03/14/13 14:40	03/16/13 09:20
680-88420-23	CV0353A-CS-SP	Solid	03/14/13 12:38	03/16/13 09:20
680-88420-24	CV0353B-CS-SP	Solid	03/14/13 12:50	03/16/13 09:20
680-88420-25	CV0865A-CS-SP	Solid	03/14/13 13:10	03/16/13 09:20
680-88420-26	CV0865B-CS-SP	Solid	03/14/13 13:22	03/16/13 09:20
680-88420-27	CV0770A-CS-SP	Solid	03/14/13 13:50	03/16/13 09:20
680-88420-28	CV0770B-CS-SP	Solid	03/14/13 14:00	03/16/13 09:20
680-88420-29	CV0766A-CS-SP	Solid	03/14/13 14:21	03/16/13 09:20
680-88420-30	CV0968A-CS-SP	Solid	03/14/13 15:21	03/16/13 09:20
680-88420-31	CV0968B-CS-SP	Solid	03/14/13 15:31	03/16/13 09:20
680-88420-35	CV0292A-CS-SP	Solid	03/15/13 08:30	03/16/13 09:20
680-88420-36	CV0292B-CS-SP	Solid	03/15/13 08:40	03/16/13 09:20
680-88420-37	CV0292C-CS-SP	Solid	03/15/13 08:50	03/16/13 09:20

Method Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Definitions/Glossary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less han the RL but greater han or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
F	MS or MSD exceeds he control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ra io
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV1037A-CS

Lab Sample ID: 680-88420-21
Date Collected: 03/14/13 14:30
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 87.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	52	J	120	23	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Acenaphthylene	48		46	5.8	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Anthracene	170		9.7	4.9	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Benzo[a]anthracene	800		9.2	4.5	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Benzo[a]pyrene	760		12	6.0	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Benzo[b]fluoranthene	1100		14	7.1	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Benzo[g,h,i]perylene	490		23	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Benzo[k]fluoranthene	590		9.2	4.2	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Chrysene	860		10	5.2	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Dibenz(a,h)anthracene	160		23	4.7	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Fluoranthene	1500		23	4.6	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Fluorene	47		23	4.7	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Indeno[1,2,3-cd]pyrene	490		23	8.2	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
1-Methylnaphthalene	90		46	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
2-Methylnaphthalene	130		46	8.2	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Naphthalene	110		46	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Phenanthrene	790		9.2	4.5	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1
Pyrene	1400		23	4.3	ug/Kg	☼	03/21/13 11:14	03/27/13 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*03/21/13 11:14*	*03/27/13 19:58*	*1*

Client Sample ID: CV1037B-CS

Lab Sample ID: 680-88420-22
Date Collected: 03/14/13 14:40
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 84.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Acenaphthylene	48		46	5.7	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Anthracene	98		9.6	4.8	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Benzo[a]anthracene	340		9.2	4.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Benzo[a]pyrene	480		12	6.0	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Benzo[b]fluoranthene	790		14	7.0	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Benzo[g,h,i]perylene	350		23	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Benzo[k]fluoranthene	300		9.2	4.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Chrysene	460		10	5.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Dibenz(a,h)anthracene	100		23	4.7	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Fluoranthene	780		23	4.6	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Fluorene	36		23	4.7	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Indeno[1,2,3-cd]pyrene	290		23	8.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
1-Methylnaphthalene	110		46	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
2-Methylnaphthalene	170		46	8.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Naphthalene	120		46	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Phenanthrene	450		9.2	4.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1
Pyrene	370		23	4.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*03/21/13 11:14*	*03/27/13 20:16*	*1*

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0353A-CS-SP

Lab Sample ID: 680-88420-23
Date Collected: 03/14/13 12:38
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 76.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	50	J	130	26	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Acenaphthylene	43	J	52	6.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Anthracene	54		11	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Benzo[a]anthracene	230		10	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Benzo[a]pyrene	140		13	6.7	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Benzo[b]fluoranthene	310		16	7.9	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Benzo[g,h,i]perylene	140		26	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Benzo[k]fluoranthene	82		10	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Chrysene	230		12	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Dibenz(a,h)anthracene	56		26	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Fluoranthene	240		26	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Fluorene	26	U	26	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Indeno[1,2,3-cd]pyrene	87		26	9.2	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
1-Methylnaphthalene	90		52	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
2-Methylnaphthalene	180		52	9.2	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Naphthalene	93		52	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Phenanthrene	210		10	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1
Pyrene	320		26	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*03/21/13 11:14*	*03/26/13 17:08*	*1*

Client Sample ID: CV0353B-CS-SP

Lab Sample ID: 680-88420-24
Date Collected: 03/14/13 12:50
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 75.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Acenaphthylene	36	J	53	6.6	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Anthracene	39		11	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Benzo[a]anthracene	160		11	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Benzo[a]pyrene	78		14	6.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Benzo[b]fluoranthene	230		16	8.0	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Benzo[g,h,i]perylene	69		26	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Benzo[k]fluoranthene	48		11	4.7	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Chrysene	140		12	5.9	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Dibenz(a,h)anthracene	32		26	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Fluoranthene	180		26	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Fluorene	26	U	26	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Indeno[1,2,3-cd]pyrene	67		26	9.3	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
1-Methylnaphthalene	89		53	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
2-Methylnaphthalene	180		53	9.3	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Naphthalene	100		53	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Phenanthrene	130		11	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1
Pyrene	230		26	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*03/21/13 11:14*	*03/26/13 17:23*	*1*

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0865A-CS-SP

Lab Sample ID: 680-88420-25
Date Collected: 03/14/13 13:10
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 80.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Acenaphthylene	120		50	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Anthracene	100		10	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Benzo[a]anthracene	350		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Benzo[a]pyrene	270		13	6.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Benzo[b]fluoranthene	430		15	7.6	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Benzo[g,h,i]perylene	230		25	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Benzo[k]fluoranthene	170		9.9	4.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Chrysene	350		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Dibenz(a,h)anthracene	92		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Fluoranthene	580		25	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Fluorene	50		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Indeno[1,2,3-cd]pyrene	220		25	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
1-Methylnaphthalene	93		50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
2-Methylnaphthalene	160		50	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Naphthalene	74		50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Phenanthrene	380		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1
Pyrene	600		25	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*30 - 130*	*03/21/13 11:14*	*03/26/13 17:38*	*1*

Client Sample ID: CV0865B-CS-SP

Lab Sample ID: 680-88420-26
Date Collected: 03/14/13 13:22
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 83.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Acenaphthylene	36	J	48	6.0	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Anthracene	33		10	5.0	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Benzo[a]anthracene	260		9.6	4.7	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Benzo[a]pyrene	280	F	12	6.2	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Benzo[b]fluoranthene	450		15	7.3	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Benzo[g,h,i]perylene	200		24	5.3	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Benzo[k]fluoranthene	140		9.6	4.3	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Chrysene	440		11	5.4	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Dibenz(a,h)anthracene	68		24	4.9	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Fluoranthene	490		24	4.8	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Fluorene	17	J	24	4.9	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Indeno[1,2,3-cd]pyrene	140		24	8.5	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
1-Methylnaphthalene	450		48	5.3	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
2-Methylnaphthalene	450		48	8.5	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Naphthalene	250		48	5.3	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Phenanthrene	430		9.6	4.7	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1
Pyrene	450		24	4.4	ug/Kg	☼	03/22/13 13:10	03/25/13 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*03/22/13 13:10*	*03/25/13 15:20*	*1*

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0770A-CS-SP

Lab Sample ID: 680-88420-27
Date Collected: 03/14/13 13:50
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 79.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Acenaphthylene	68		50	6.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Anthracene	52		10	5.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Benzo[a]anthracene	330		10	4.9	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Benzo[a]pyrene	350		13	6.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Benzo[b]fluoranthene	480		15	7.6	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Benzo[g,h,i]perylene	260		25	5.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Benzo[k]fluoranthene	240		10	4.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Chrysene	370		11	5.6	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Dibenz(a,h)anthracene	79		25	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Fluoranthene	510		25	5.0	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Fluorene	26		25	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Indeno[1,2,3-cd]pyrene	200		25	8.9	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
1-Methylnaphthalene	110		50	5.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
2-Methylnaphthalene	170		50	8.9	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Naphthalene	120		50	5.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Phenanthrene	330		10	4.9	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1
Pyrene	480		25	4.6	ug/Kg	☼	03/21/13 11:14	03/27/13 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*30 - 130*	*03/21/13 11:14*	*03/27/13 20:34*	*1*

Client Sample ID: CV0770B-CS-SP

Lab Sample ID: 680-88420-28
Date Collected: 03/14/13 14:00
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 79.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Acenaphthylene	38	J	50	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Anthracene	30		10	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Benzo[a]anthracene	140		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Benzo[a]pyrene	79		13	6.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Benzo[b]fluoranthene	220		15	7.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Benzo[g,h,i]perylene	87		25	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Benzo[k]fluoranthene	49		9.9	4.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Chrysene	150		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Dibenz(a,h)anthracene	31		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Fluoranthene	180		25	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Fluorene	25	U	25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Indeno[1,2,3-cd]pyrene	61		25	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
1-Methylnaphthalene	59		50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
2-Methylnaphthalene	150		50	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Naphthalene	57		50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Phenanthrene	140		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1
Pyrene	170		25	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*03/21/13 11:14*	*03/26/13 18:09*	*1*

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0766A-CS-SP

Lab Sample ID: 680-88420-29
Date Collected: 03/14/13 14:21
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 70.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	65	J	140	28	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Acenaphthylene	98		57	7.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Anthracene	170		12	6.0	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Benzo[a]anthracene	430		11	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Benzo[a]pyrene	190		15	7.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Benzo[b]fluoranthene	480		17	8.7	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Benzo[g,h,i]perylene	230		28	6.3	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Benzo[k]fluoranthene	150		11	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Chrysene	510		13	6.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Dibenz(a,h)anthracene	100		28	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Fluoranthene	470		28	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Fluorene	89		28	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Indeno[1,2,3-cd]pyrene	180		28	10	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
1-Methylnaphthalene	840		57	6.3	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
2-Methylnaphthalene	790		57	10	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Naphthalene	490		57	6.3	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Phenanthrene	730		11	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1
Pyrene	440		28	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*03/21/13 11:14*	*03/26/13 18:24*	*1*

Client Sample ID: CV0968A-CS-SP

Lab Sample ID: 680-88420-30
Date Collected: 03/14/13 15:21
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 80.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Acenaphthylene	31	J	50	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Anthracene	23		10	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Benzo[a]anthracene	130		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Benzo[a]pyrene	76		13	6.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Benzo[b]fluoranthene	190		15	7.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Benzo[g,h,i]perylene	55		25	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Benzo[k]fluoranthene	56		9.9	4.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Chrysene	110		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Dibenz(a,h)anthracene	28		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Fluoranthene	150		25	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Fluorene	25	U	25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Indeno[1,2,3-cd]pyrene	54		25	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
1-Methylnaphthalene	13	J	50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
2-Methylnaphthalene	88		50	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Naphthalene	18	J	50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Phenanthrene	60		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1
Pyrene	140		25	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*03/21/13 11:14*	*03/26/13 18:39*	*1*

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0968B-CS-SP

Lab Sample ID: 680-88420-31
Date Collected: 03/14/13 15:31
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 80.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Acenaphthylene	81		49	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Anthracene	73		10	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Benzo[a]anthracene	200		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Benzo[a]pyrene	170		13	6.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Benzo[b]fluoranthene	330		15	7.5	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Benzo[g,h,i]perylene	170		25	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Benzo[k]fluoranthene	97		9.9	4.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Chrysene	190		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Dibenz(a,h)anthracene	54		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Fluoranthene	290		25	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Fluorene	25	U	25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Indeno[1,2,3-cd]pyrene	160		25	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
1-Methylnaphthalene	20	J	49	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
2-Methylnaphthalene	89		49	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Naphthalene	27	J	49	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Phenanthrene	150		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1
Pyrene	300		25	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*30 - 130*	*03/21/13 11:14*	*03/26/13 18:54*	*1*

Client Sample ID: CV0292A-CS-SP

Lab Sample ID: 680-88420-35
Date Collected: 03/15/13 08:30
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 70.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Acenaphthylene	12	J	55	6.9	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Anthracene	13		12	5.8	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Benzo[a]anthracene	62		11	5.4	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Benzo[a]pyrene	65		14	7.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Benzo[b]fluoranthene	110		17	8.4	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Benzo[g,h,i]perylene	42		28	6.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Benzo[k]fluoranthene	38		11	5.0	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Chrysene	87		12	6.2	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Dibenz(a,h)anthracene	13	J	28	5.7	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Fluoranthene	100		28	5.5	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Fluorene	6.5	J	28	5.7	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Indeno[1,2,3-cd]pyrene	34		28	9.8	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
1-Methylnaphthalene	39	J	55	6.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
2-Methylnaphthalene	39	J	55	9.8	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Naphthalene	32	J	55	6.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Phenanthrene	93		11	5.4	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1
Pyrene	110		28	5.1	ug/Kg	☼	03/21/13 11:14	03/27/13 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*38*		*30 - 130*	*03/21/13 11:14*	*03/27/13 20:53*	*1*

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0292B-CS-SP

Lab Sample ID: 680-88420-36
Date Collected: 03/15/13 08:40
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 70.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Acenaphthylene	**29**	**J**	55	6.9	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Anthracene	**31**		12	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Benzo[a]anthracene	**85**		11	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Benzo[a]pyrene	**49**		14	7.2	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Benzo[b]fluoranthene	**210**		17	8.5	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Benzo[g,h,i]perylene	**56**		28	6.1	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Benzo[k]fluoranthene	**33**		11	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Chrysene	**180**		12	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Dibenz(a,h)anthracene	**18**	**J**	28	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Fluoranthene	**120**		28	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Fluorene	**31**		28	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Indeno[1,2,3-cd]pyrene	**45**		28	9.9	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
1-Methylnaphthalene	**79**		55	6.1	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
2-Methylnaphthalene	**180**		55	9.9	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Naphthalene	**76**		55	6.1	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Phenanthrene	**150**		11	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1
Pyrene	**140**		28	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*03/21/13 11:14*	*03/26/13 19:24*	*1*

Client Sample ID: CV0292C-CS-SP

Lab Sample ID: 680-88420-37
Date Collected: 03/15/13 08:50
Matrix: Solid
Date Received: 03/16/13 09:20
Percent Solids: 72.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Acenaphthylene	55	U	55	6.8	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Anthracene	**15**		12	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Benzo[a]anthracene	**74**		11	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Benzo[a]pyrene	**33**		14	7.1	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Benzo[b]fluoranthene	**160**		17	8.4	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Benzo[g,h,i]perylene	**35**		27	6.0	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Benzo[k]fluoranthene	**27**		11	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Chrysene	**67**		12	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Dibenz(a,h)anthracene	**24**	**J**	27	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Fluoranthene	**83**		27	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Fluorene	27	U	27	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Indeno[1,2,3-cd]pyrene	**26**	**J**	27	9.7	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
1-Methylnaphthalene	**34**	**J**	55	6.0	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
2-Methylnaphthalene	**120**		55	9.7	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Naphthalene	**44**	**J**	55	6.0	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Phenanthrene	**72**		11	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1
Pyrene	**87**		27	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*03/21/13 11:14*	*03/26/13 19:39*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 660-135631/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135850 — **Prep Batch: 135631**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	97	U	97	19	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Acenaphthylene	39	U	39	4.9	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Benzo[g,h,i]perylene	19	U	19	4.3	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Dibenz(a,h)an hracene	19	U	19	4.0	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Fluoranthene	19	U	19	3.9	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Fluorene	19	U	19	4.0	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Indeno[1,2,3-cd]pyrene	19	U	19	6.9	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Naphthalene	39	U	39	4.3	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Pyrene	19	U	19	3.6	ug/Kg		03/21/13 11:14	03/26/13 11:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*30 - 130*	*03/21/13 11:14*	*03/26/13 11:59*	*1*

Lab Sample ID: LCS 660-135631/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135850 — **Prep Batch: 135631**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	653	430		ug/Kg		66	39 - 130
Acenaphthylene	653	477		ug/Kg		73	38 - 130
Anthracene	653	437		ug/Kg		67	37 - 130
Benzo[a]anthracene	653	501		ug/Kg		77	40 - 130
Benzo[a]pyrene	653	427		ug/Kg		65	49 - 130
Benzo[b]fluoranthene	653	471		ug/Kg		72	37 - 130
Benzo[g,h,i]perylene	653	437		ug/Kg		67	32 - 130
Benzo[k]fluoranthene	653	501		ug/Kg		77	32 - 130
Chrysene	653	489		ug/Kg		75	41 - 130
Dibenz(a,h)an hracene	653	496		ug/Kg		76	27 - 130
Fluoranthene	653	479		ug/Kg		73	40 - 130
Fluorene	653	491		ug/Kg		75	40 - 130
Indeno[1,2,3-cd]pyrene	653	434		ug/Kg		66	30 - 130
1-Methylnaphthalene	653	506		ug/Kg		77	31 - 130
2-Methylnaphthalene	653	420		ug/Kg		64	33 - 130
Naphthalene	653	440		ug/Kg		67	36 - 130
Phenanthrene	653	437		ug/Kg		67	42 - 130
Pyrene	653	411		ug/Kg		63	44 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 660-135631/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135850 — **Prep Batch: 135631**

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*70*		*30 - 130*

Lab Sample ID: MB 660-135688/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135753 — **Prep Batch: 135688**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Fluorene	20	U	20	4.1	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Naphthalene	40	U	40	4.4	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/22/13 13:10	03/25/13 13:11	1
Pyrene	20	U	20	3.7	ug/Kg		03/22/13 13:10	03/25/13 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*30 - 130*	*03/22/13 13:10*	*03/25/13 13:11*	*1*

Lab Sample ID: LCS 660-135688/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135753 — **Prep Batch: 135688**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	661	478		ug/Kg		72	39 - 130
Acenaphthylene	661	537		ug/Kg		81	38 - 130
Anthracene	661	558		ug/Kg		85	37 - 130
Benzo[a]anthracene	661	581		ug/Kg		88	40 - 130
Benzo[a]pyrene	661	530		ug/Kg		80	49 - 130
Benzo[b]fluoranthene	661	601		ug/Kg		91	37 - 130
Benzo[g,h,i]perylene	661	542		ug/Kg		82	32 - 130
Benzo[k]fluoranthene	661	562		ug/Kg		85	32 - 130
Chrysene	661	531		ug/Kg		80	41 - 130
Dibenz(a,h)an hracene	661	585		ug/Kg		89	27 - 130
Fluoranthene	661	600		ug/Kg		91	40 - 130
Fluorene	661	546		ug/Kg		83	40 - 130
Indeno[1,2,3-cd]pyrene	661	538		ug/Kg		81	30 - 130
1-Methylnaphthalene	661	583		ug/Kg		88	31 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 660-135688/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135753 — **Prep Batch: 135688**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	661	536		ug/Kg		81	33 - 130
Naphthalene	661	555		ug/Kg		84	36 - 130
Phenanthrene	661	537		ug/Kg		81	42 - 130
Pyrene	661	562		ug/Kg		85	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*87*		*30 - 130*

Lab Sample ID: 680-88420-26 MS — **Client Sample ID: CV0865B-CS-SP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135753 — **Prep Batch: 135688**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	120	U	799	541		ug/Kg	☼	68	39 - 130
Acenaphthylene	36	J	799	565		ug/Kg	☼	66	38 - 130
Anthracene	33		799	557		ug/Kg	☼	66	37 - 130
Benzo[a]anthracene	260		799	829		ug/Kg	☼	71	40 - 130
Benzo[a]pyrene	280	F	799	672	F	ug/Kg	☼	48	49 - 130
Benzo[b]fluoranthene	450		799	868		ug/Kg	☼	52	37 - 130
Benzo[g,h,i]perylene	200		799	545		ug/Kg	☼	44	32 - 130
Benzo[k]fluoranthene	140		799	718		ug/Kg	☼	72	32 - 130
Chrysene	440		799	869		ug/Kg	☼	54	41 - 130
Dibenz(a,h)an hracene	68		799	498		ug/Kg	☼	54	27 - 130
Fluoranthene	490		799	976		ug/Kg	☼	61	40 - 130
Fluorene	17	J	799	608		ug/Kg	☼	74	40 - 130
Indeno[1,2,3-cd]pyrene	140		799	524		ug/Kg	☼	47	30 - 130
1-Methylnaphthalene	450		799	1290		ug/Kg	☼	106	31 - 130
2-Methylnaphthalene	450		799	1180		ug/Kg	☼	91	33 - 130
Naphthalene	250		799	923		ug/Kg	☼	84	36 - 130
Phenanthrene	430		799	1030		ug/Kg	☼	75	42 - 130
Pyrene	450		799	1020		ug/Kg	☼	71	44 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*65*		*30 - 130*

Lab Sample ID: 680-88420-26 MSD — **Client Sample ID: CV0865B-CS-SP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135753 — **Prep Batch: 135688**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	120	U	799	543		ug/Kg	☼	68	39 - 130	0	40
Acenaphthylene	36	J	799	631		ug/Kg	☼	74	38 - 130	11	40
Anthracene	33		799	608		ug/Kg	☼	72	37 - 130	9	40
Benzo[a]anthracene	260		799	898		ug/Kg	☼	80	40 - 130	8	40
Benzo[a]pyrene	280	F	799	805		ug/Kg	☼	65	49 - 130	18	40
Benzo[b]fluoranthene	450		799	1010		ug/Kg	☼	69	37 - 130	15	40
Benzo[g,h,i]perylene	200		799	645		ug/Kg	☼	56	32 - 130	17	40
Benzo[k]fluoranthene	140		799	786		ug/Kg	☼	81	32 - 130	9	40

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-88420-26 MSD — **Client Sample ID: CV0865B-CS-SP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 135753 — **Prep Batch: 135688**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	440		799	937		ug/Kg	☼	62	41 - 130	8	40
Dibenz(a,h)an hracene	68		799	610		ug/Kg	☼	68	27 - 130	20	40
Fluoranthene	490		799	1000		ug/Kg	☼	64	40 - 130	3	40
Fluorene	17	J	799	648		ug/Kg	☼	79	40 - 130	6	40
Indeno[1,2,3-cd]pyrene	140		799	613		ug/Kg	☼	59	30 - 130	16	40
1-Methylnaphthalene	450		799	1420		ug/Kg	☼	122	31 - 130	9	40
2-Methylnaphthalene	450		799	1380		ug/Kg	☼	117	33 - 130	16	40
Naphthalene	250		799	1080		ug/Kg	☼	104	36 - 130	16	40
Phenanthrene	430		799	1090		ug/Kg	☼	83	42 - 130	6	40
Pyrene	450		799	1060		ug/Kg	☼	76	44 - 130	4	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*71*		*30 - 130*

QC Association Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

GC/MS Semi VOA

Prep Batch: 135631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-21	CV1037A-CS	Total/NA	Solid	3546	
680-88420-22	CV1037B-CS	Total/NA	Solid	3546	
680-88420-23	CV0353A-CS-SP	Total/NA	Solid	3546	
680-88420-24	CV0353B-CS-SP	Total/NA	Solid	3546	
680-88420-25	CV0865A-CS-SP	Total/NA	Solid	3546	
680-88420-27	CV0770A-CS-SP	Total/NA	Solid	3546	
680-88420-28	CV0770B-CS-SP	Total/NA	Solid	3546	
680-88420-29	CV0766A-CS-SP	Total/NA	Solid	3546	
680-88420-30	CV0968A-CS-SP	Total/NA	Solid	3546	
680-88420-31	CV0968B-CS-SP	Total/NA	Solid	3546	
680-88420-35	CV0292A-CS-SP	Total/NA	Solid	3546	
680-88420-36	CV0292B-CS-SP	Total/NA	Solid	3546	
680-88420-37	CV0292C-CS-SP	Total/NA	Solid	3546	
LCS 660-135631/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135631/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 135688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-26	CV0865B-CS-SP	Total/NA	Solid	3546	
680-88420-26 MS	CV0865B-CS-SP	Total/NA	Solid	3546	
680-88420-26 MSD	CV0865B-CS-SP	Total/NA	Solid	3546	
LCS 660-135688/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135688/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-26	CV0865B-CS-SP	Total/NA	Solid	8270C LL	135688
680-88420-26 MS	CV0865B-CS-SP	Total/NA	Solid	8270C LL	135688
680-88420-26 MSD	CV0865B-CS-SP	Total/NA	Solid	8270C LL	135688
LCS 660-135688/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135688
MB 660-135688/1-A	Method Blank	Total/NA	Solid	8270C LL	135688

Analysis Batch: 135830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-21	CV1037A-CS	Total/NA	Solid	8270C LL	135631
680-88420-22	CV1037B-CS	Total/NA	Solid	8270C LL	135631
680-88420-27	CV0770A-CS-SP	Total/NA	Solid	8270C LL	135631
680-88420-35	CV0292A-CS-SP	Total/NA	Solid	8270C LL	135631

Analysis Batch: 135850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-23	CV0353A-CS-SP	Total/NA	Solid	8270C LL	135631
680-88420-24	CV0353B-CS-SP	Total/NA	Solid	8270C LL	135631
680-88420-25	CV0865A-CS-SP	Total/NA	Solid	8270C LL	135631
680-88420-28	CV0770B-CS-SP	Total/NA	Solid	8270C LL	135631
680-88420-29	CV0766A-CS-SP	Total/NA	Solid	8270C LL	135631
680-88420-30	CV0968A-CS-SP	Total/NA	Solid	8270C LL	135631
680-88420-31	CV0968B-CS-SP	Total/NA	Solid	8270C LL	135631
680-88420-36	CV0292B-CS-SP	Total/NA	Solid	8270C LL	135631
680-88420-37	CV0292C-CS-SP	Total/NA	Solid	8270C LL	135631
LCS 660-135631/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135631

GC/MS Semi VOA (Continued)

Analysis Batch: 135850 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-135631/1-A	Method Blank	Total/NA	Solid	8270C LL	135631

General Chemistry

Analysis Batch: 135642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-26	CV0865B-CS-SP	Total/NA	Solid	Moisture	
680-88420-26 MS	CV0865B-CS-SP	Total/NA	Solid	Moisture	
680-88420-26 MSD	CV0865B-CS-SP	Total/NA	Solid	Moisture	
LCS 660-135642/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135642/12	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Analysis Batch: 135659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-21	CV1037A-CS	Total/NA	Solid	Moisture	
680-88420-22	CV1037B-CS	Total/NA	Solid	Moisture	
680-88420-23	CV0353A-CS-SP	Total/NA	Solid	Moisture	
680-88420-24	CV0353B-CS-SP	Total/NA	Solid	Moisture	
680-88420-25	CV0865A-CS-SP	Total/NA	Solid	Moisture	
680-88420-27	CV0770A-CS-SP	Total/NA	Solid	Moisture	
680-88420-28	CV0770B-CS-SP	Total/NA	Solid	Moisture	
680-88420-29	CV0766A-CS-SP	Total/NA	Solid	Moisture	
680-88420-30	CV0968A-CS-SP	Total/NA	Solid	Moisture	
680-88420-31	CV0968B-CS-SP	Total/NA	Solid	Moisture	
680-88420-35	CV0292A-CS-SP	Total/NA	Solid	Moisture	
680-88420-36	CV0292B-CS-SP	Total/NA	Solid	Moisture	
680-88420-37	CV0292C-CS-SP	Total/NA	Solid	Moisture	
MB 660-135659/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV1037A-CS — Lab Sample ID: 680-88420-21

Date Collected: 03/14/13 14:30 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 87.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 19:58	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Client Sample ID: CV1037B-CS — Lab Sample ID: 680-88420-22

Date Collected: 03/14/13 14:40 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 84.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 20:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Client Sample ID: CV0353A-CS-SP — Lab Sample ID: 680-88420-23

Date Collected: 03/14/13 12:38 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 76.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 17:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Client Sample ID: CV0353B-CS-SP — Lab Sample ID: 680-88420-24

Date Collected: 03/14/13 12:50 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 75.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 17:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Client Sample ID: CV0865A-CS-SP — Lab Sample ID: 680-88420-25

Date Collected: 03/14/13 13:10 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 80.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 17:38	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0865B-CS-SP — Lab Sample ID: 680-88420-26

Date Collected: 03/14/13 13:22 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 83.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135688	03/22/13 13:10	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135753	03/25/13 15:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135642	03/21/13 11:56	AG	TAL TAM

Client Sample ID: CV0770A-CS-SP — Lab Sample ID: 680-88420-27

Date Collected: 03/14/13 13:50 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 79.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 20:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Client Sample ID: CV0770B-CS-SP — Lab Sample ID: 680-88420-28

Date Collected: 03/14/13 14:00 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 79.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 18:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Client Sample ID: CV0766A-CS-SP — Lab Sample ID: 680-88420-29

Date Collected: 03/14/13 14:21 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 70.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 18:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Client Sample ID: CV0968A-CS-SP — Lab Sample ID: 680-88420-30

Date Collected: 03/14/13 15:21 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 80.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 18:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Client Sample ID: CV0968B-CS-SP — Lab Sample ID: 680-88420-31

Date Collected: 03/14/13 15:31 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 80.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 18:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Client Sample ID: CV0292A-CS-SP — Lab Sample ID: 680-88420-35

Date Collected: 03/15/13 08:30 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 70.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 20:53	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Client Sample ID: CV0292B-CS-SP — Lab Sample ID: 680-88420-36

Date Collected: 03/15/13 08:40 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 70.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 19:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Client Sample ID: CV0292C-CS-SP — Lab Sample ID: 680-88420-37

Date Collected: 03/15/13 08:50 — **Matrix: Solid**
Date Received: 03/16/13 09:20 — **Percent Solids: 72.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 19:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 63557

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 2 OF 4
35TH AVE REMOVAL	2005148-1356	AL			
TAL (LAB) PROJECT MANAGER: LISA HARVEY	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY ○ DATE DUE ____
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX			EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____

(b) (6)

PRESERVATIVE: LL PAH

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-14-13	1127	CV1151B-CS-SP	C		X			X	
	1220	CV0137A-CS	C		X			X	
	1250	FM0004A-CS	C		X			X	
	1250	FM0004A-CSD	C		X			X	
	1300	FM0004B-CS	C		X			X	
	1310	FM0004C-CS	C		X			X	
	1405	CV1035A-CS	C		X			X	
	1415	CV1035B-CS	C		X			X	
	1430	CV1037A-CS	C		X			X	
	1440	CV1037B-CS	C		X			X	
	1238	CV0353A-CS-SP	C		X			X	
	1250	CV0353B-CS-SP	C		X			X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-15-13	1000						
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]	3/16/13	0920	YES ○ NO ○		680-88420	3.4°C

TAL8240-680 (1006)

Serial Number 63558

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 HARVEY
P.O. NUMBER:
CONTRACT NO.:

(b) (6)

PAGE 3 OF 4

STANDARD REPORT DELIVERY
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA-8 METALS								REMARKS
3-14-13	1310	CV0865A-CS-SP	C		X			X									
	1322	CV0865B-CS-SP	C		X			X	X								
	1350	CV0770A-CS-SP	C		X			X									
	1400	CV0770B-CS-SP	C		X			X									
	1421	CV0766A-CS-SP	C		X			X	X								
	1521	CV0968A-CS-SP	C		X			X									
	1531	CV0968B-CS-SP	C		X			X									
	1119	CV1151A-CS-SP SIEVED	C		X				X								
	1322	CV0865B-CS-SP SIEVED	C		X				X								
	1421	CV0766A-CS-SP SIEVED	C		X				X								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-15-13	1000						
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]	3/16/13	0920	YES / NO		680-88420	3.4°C

TAL8240-680 (1008)

Serial Number 63559

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	20051148-1356	AL	4	4

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
LISA HARVEY		

(b) (6)

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LL PAH

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
3-15-13	830	CV0292A-CS-SP	C		X			X	
	840	CV0292B-CS-SP	C		X			X	
	850	CV0292C-CS-SP	C		X			X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-15-13	1200						

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]	3/16/13	0920	YES ◯ NO ◯		680-88420	3.4°C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-2
SDG Number: 68088420-2

Login Number: 88420
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-2
SDG Number: 68088420-2

Login Number: 88420
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 03/20/13 08:50 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Laboratory: TestAmerica Savannah

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	03-31-13
A2LA	ISO/IEC 17025		399.01	03-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Ilinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	03-31-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13

Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-2
SDG: 68088420-2

Laboratory: TestAmerica Tampa (Continued)

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14