REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-89896-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil and Water	Samples Collected:	04/29/2013 through 05/01/2013
Reviewer:	Karen Marie Trujillo, URS Group, Inc.	Date:	05/22/2013
Concurrence[2]:	Martha Meyers-Lee, URS Group, Inc.	Date:	05/30/2013

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?		✓		PAHs were not detected during the analysis of rinsate blank 680-89896-23 (050113-RB-Bowls&Spoons).	

[1] All analytical work subcontracted to TestAmerica of Tampa, FL
[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, 680-89896-23 (050113-RB-Bowls&Spoons) was collected during the week of 4/29/13. The rinsate blank was analyzed for PAHs under this Test America Job ID.	
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?	✓			CV0988A-CSD (680-89896-18) is a field duplicate of CV0988A-CS (680-89896-17).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment B** (Field Duplicate Evaluation)	J
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.	✓			• Instrument ID: BSMA5973 • Initial Calibration: 05/06/2013 • ICV: 05/06/13 @ 12:11 • CCV: 05/08/13 @ 14:31 (Water)	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with 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)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds					
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	✓			LCSD for water 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?	✓			• Soil, Prep Batch 137098: 680-89896-4 (CV0731A-CS-SP), MS/MSD • Water, Prep Batch 137196: 680-89896-23 (050113-RB-Bowls&Spoons), MS only due to limited sample volume. LCSD duplicate analysis conducted in lieu of MSD.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are evaluated that are reported under this Job ID 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 • 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		✓		• Soil, CV0731A-CS-SP (680-89896-4): o Acenaphthene @ 49 and 439 %R (39-130). Qualification of data not required[3]. o Acenaphthylene @ 62 and 504 %R (38-130). Qualification of data not required[3]. o Anthracene @ 33 and 1440 %R (37-130). J-Flag sample result. o Benzo[a]anthracene @ 26 and 2837 %R (40-130). J-Flag sample result. o Benzo[a]pyrene @ 20 and 2479 %R (49-130). J-Flag sample result. o Benzo[b]fluoranthene @ 33 and 3570 %R (37-130). J-Flag sample result. o Benzo[g,h,i]perlyene @ 29 and 1686 %R (32-130). J-Flag sample result.	J/UJ

[3] 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
				○ Benzo[k]fluoranthene @ 26 and 1014 %R (32-130). J-Flag sample result. ○ Chrysene @ 11 and 2524 %R (41-130). J-Flag sample result. ○ Dibenz(a,h)anthracene @ 66 and 672 %R (27-130). Qualification of data not required[3]. ○ Fluoranthene @ -60 and 6848 %R (40-130). J-Flag sample result. ○ Fluorene @ 48 and 907 %R (40-130). Qualification of data not required[3]. ○ Indeno[1,2,3-cd]pyrene @ 42 and 1640 %R (30-130). Qualification of data not required[3]. ○ 1-Methylnaphthalene @ 59 and 364 %R (33-130). Qualification of data not required[3]. ○ 2-Methylnaphthalene @ 57 and 485 %R (33-130). Qualification of data not required[3]. ○ Naphthalene @ 25 and 1758 %R (36-130), J-Flag sample result. ○ Phenanthrene @ -123 and 7556 %R (42-130). J-Flag sample result. ○ Pyrene @ -55 and 5005 %R (44-130). J-Flag sample result. • Water, 050113-RB-Bowls&Spoons (680-89896-23): Benzo[g,h,i]perylene MS @ 25 %R (26-130). UJ-Flag non-detect result.	
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples are evaluated that are reported under this Job ID 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.		✓		CV0731A-CS-SP (680-89896-4): • Acenaphthene @ 153 %RPD (≤40), J-Flag • Acenaphthylene @ 148 %RPD (≤40), J-Flag • Anthracene @ 179 %RPD (≤40), J-Flag • Benzo[a]anthracene @ 183 %RPD (≤40). J-Flag • Benzo[a]pyrene @ 184 %RPD (≤40), J-Flag • Benzo[b]fluoranthene @ 186 %RPD (≤40), J-Flag • Benzo[g,h,i]perylene @ 177 %RPD (≤40), J-Flag • Benzo[k]fluoranthene @ 172 %RPD (≤40), J-Flag • Chrysene @ 186 %RPD (≤40), J-Flag • Dibenz(a,h)anthracene @ 155 %RPD (<40). J-Flag • Fluoranthene @ 191 %RPD (≤40). J-Flag • Fluorene @ 172 %RPD (≤40), J-Flag • Indeno[1,2,3-cd]pyrene @ 175 %RPD (≤40). J-Flag	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				• 1-Methylnaphthalene @ 134 %RPD (≤40), J-Flag • 2-Methylnaphthalene @ 146 %RPD (≤40), J-Flag • Naphthalene @ 184 %RPD (≤40), J-Flag • Phenanthrene @ 192 %RPD (≤40), J-Flag • Pyrene @ 188 %RPD (≤40), J-Flag	
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 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 C** (Case Narrative)	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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 D**). 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: 680-89896-1
SDG: 68089896-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89896-1	CV0727A-CS-SP	Solid	04/29/13 14:24	05/02/13 10:30
680-89896-2	CV0728A-CS-SP	Solid	04/29/13 13:51	05/02/13 10:30
680-89896-3	CV0728B-CS-SP	Solid	04/29/13 13:57	05/02/13 10:30
680-89896-4	CV0731A-CS-SP	Solid	04/29/13 13:22	05/02/13 10:30
680-89896-5	CV0731B-CS-SP	Solid	04/29/13 13:33	05/02/13 10:30
680-89896-6	CV0662A-CS-SP	Solid	04/30/13 10:35	05/02/13 10:30
680-89896-7	CV0670A-CS-SP	Solid	04/30/13 09:10	05/02/13 10:30
680-89896-8	CV0670B-CS-SP	Solid	04/30/13 09:15	05/02/13 10:30
680-89896-9	CV0670C-CS-SP	Solid	04/30/13 09:36	05/02/13 10:30
680-89896-10	CV0670D-CS-SP	Solid	04/30/13 09:48	05/02/13 10:30
680-89896-11	CV0670E-CS-SP	Solid	04/30/13 10:15	05/02/13 10:30
680-89896-12	CV0466A-CS-SP	Solid	04/30/13 14:10	05/02/13 10:30
680-89896-13	CV0466B-CS-SP	Solid	04/30/13 14:20	05/02/13 10:30
680-89896-14	CV0963A-CS-SP	Solid	04/30/13 12:40	05/02/13 10:30
680-89896-15	CV0964A-CS-SP	Solid	04/30/13 13:35	05/02/13 10:30
680-89896-16	CV0964B-CS-SP	Solid	04/30/13 13:50	05/02/13 10:30
680-89896-17	CV0988A-CS	Solid	04/30/13 13:10	05/02/13 10:30
680-89896-18	CV0988A-CSD	Solid	04/30/13 13:10	05/02/13 10:30
680-89896-19	CV0988B-CS	Solid	04/30/13 13:00	05/02/13 10:30
680-89896-23	050113-RB-Bowls&Spoons	Water	05/01/13 09:30	05/02/13 10:30

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV0988A-CS 680-89896-17		RL	CV0988A-CSD 680-89896-18		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	27	J	51	19	J	51	µg/kg	255	NA	8	102	None, absolute difference ≤ 2x Avg RL
Anthracene	57		11	49		11	µg/kg	55	NA	8	22	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	290		10	180		10	µg/kg	50	**47**	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	250		13	150		13	µg/kg	65	**50**	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	360		16	240		16	µg/kg	80	**40**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	200		26	110		26	µg/kg	130	NA	**90**	**52**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(k)fluoranthene	170		10	91		10	µg/kg	50	**61**	NA	NA	**J/UJ-flag, RPD > 50%**
Chrysene	270		12	170		12	µg/kg	60	**45**	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	55		26	30		26	µg/kg	130	NA	25	52	None, absolute difference ≤ 2x Avg RL
Fluoranthene	420		26	300		26	µg/kg	130	**33**	NA	NA	None, RPD ≤ 50%
Fluorene	14	J	26	12	J	26	µg/kg	130	NA	2	52	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	190		26	96		26	µg/kg	130	NA	**94**	**52**	**J/UJ-flag, absolute difference > 2x Avg RL**
1-Methylnaphthalene	47	J	51	35	J	51	µg/kg	255	NA	12	102	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	63		51	51		51	µg/kg	255	NA	12	102	None, absolute difference ≤ 2x Avg RL
Naphthalene	56		51	38	J	51	µg/kg	255	NA	18	102	None, absolute difference ≤ 2x Avg RL
Phenanthrene	240		10	220		10	µg/kg	50	9	NA	NA	None, RPD ≤ 50%
Pyrene	380		26	240		26	µg/kg	130	**45**	NA	NA	None, RPD ≤ 50%

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-89896-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89896-1

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

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

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

RECEIPT

The samples were received on 05/02/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.3 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0727A-CS-SP (680-89896-1), CV0728A-CS-SP (680-89896-2), CV0728B-CS-SP (680-89896-3), CV0731A-CS-SP (680-89896-4), CV0731B-CS-SP (680-89896-5), CV0662A-CS-SP (680-89896-6), CV0670A-CS-SP (680-89896-7), CV0670B-CS-SP (680-89896-8), CV0670C-CS-SP (680-89896-9), CV0670D-CS-SP (680-89896-10), CV0670E-CS-SP (680-89896-11), CV0466A-CS-SP (680-89896-12), CV0466B-CS-SP (680-89896-13), CV0963A-CS-SP (680-89896-14), CV0964A-CS-SP (680-89896-15), CV0964B-CS-SP (680-89896-16), CV0988A-CS (680-89896-17), CV0988A-CSD (680-89896-18) and CV0988B-CS (680-89896-19) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/03/2013 and analyzed on 05/06/2013.

Samples CV0731A-CS-SP (680-89896-4)[4X], CV0670A-CS-SP (680-89896-7)[4X], CV0670C-CS-SP (680-89896-9)[4X] and CV0964A-CS-SP (680-89896-15)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0731A-CS-SPMS (680-89896-4) in batch 660-137156. Several analytes exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)-Water

Sample 050113-RB-Bowls&Spoons (680-89896-23) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/07/2013 and analyzed on 05/08/2013.

Benzo[g,h,i]perylene recovered outside the recovery criteria for the MS of sample 050113-RB-Bowls&SpoonsMS (680-89896-23) in batch 660-137292.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample ID: CV0727A-CS-SP

Lab Sample ID: 680-89896-1

Date Collected: 04/29/13 14:24
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 77.0

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	☼	05/03/13 09:41	05/06/13 13:52	1
Acenaphthylene	**25**	**J**	52	6.5	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Anthracene	**25**		11	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Benzo[a]anthracene	**91**		10	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Benzo[a]pyrene	**89**		13	6.7	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Benzo[b]fluoranthene	**130**		16	7.9	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Benzo[g,h,i]perylene	**86**		26	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Benzo[k]fluoranthene	**62**		10	4.7	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Chrysene	**110**		12	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Dibenz(a,h)anthracene	**19**	**J**	26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Fluoranthene	**110**		26	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Fluorene	**8.0**	**J**	26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Indeno[1,2,3-cd]pyrene	**76**		26	9.2	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
1-Methylnaphthalene	**54**		52	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
2-Methylnaphthalene	**74**		52	9.2	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Naphthalene	**64**		52	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Phenanthrene	**88**		10	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Pyrene	**120**		26	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*30 - 130*	*05/03/13 09:41*	*05/06/13 13:52*	*1*

Client Sample ID: CV0728A-CS-SP

Lab Sample ID: 680-89896-2

Date Collected: 04/29/13 13:51
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 77.7

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	☼	05/03/13 09:41	05/06/13 14:07	1
Acenaphthylene	**8.7**	**J**	52	6.4	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Anthracene	**16**		11	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Benzo[a]anthracene	**57**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Benzo[a]pyrene	**52**		13	6.7	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Benzo[b]fluoranthene	**84**		16	7.9	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Benzo[g,h,i]perylene	**55**		26	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Benzo[k]fluoranthene	**31**		10	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Chrysene	**83**		12	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Dibenz(a,h)anthracene	**13**	**J**	26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Fluoranthene	**77**		26	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Fluorene	**6.9**	**J**	26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Indeno[1,2,3-cd]pyrene	**44**		26	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
1-Methylnaphthalene	**53**		52	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
2-Methylnaphthalene	**71**		52	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Naphthalene	**60**		52	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Phenanthrene	**85**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Pyrene	**87**		26	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/03/13 09:41*	*05/06/13 14:07*	*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: CV0728B-CS-SP

Lab Sample ID: 680-89896-3

Date Collected: 04/29/13 13:57
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 74.0

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	27	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Acenaphthylene	**9.5**	**J**	54	6.7	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Anthracene	**13**		11	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Benzo[a]anthracene	**42**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Benzo[a]pyrene	**33**		14	7.0	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Benzo[b]fluoranthene	**51**		16	8.2	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Benzo[g,h,i]perylene	**44**		27	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Benzo[k]fluoranthene	**27**		11	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Chrysene	**57**		12	6.1	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Dibenz(a,h)anthracene	**12**	**J**	27	5.5	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Fluoranthene	**53**		27	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Fluorene	**5.8**	**J**	27	5.5	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Indeno[1,2,3-cd]pyrene	**35**		27	9.6	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
1-Methylnaphthalene	**32**	**J**	54	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
2-Methylnaphthalene	**42**	**J**	54	9.6	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Naphthalene	**44**	**J**	54	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Phenanthrene	**56**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Pyrene	**56**		27	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*44*		*30 - 130*	*05/03/13 09:41*	*05/06/13 14:22*	*1*

Client Sample ID: CV0731A-CS-SP

Lab Sample ID: 680-89896-4

Date Collected: 04/29/13 13:22
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**97**	**~~J~~ F J**	490	97	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Acenaphthylene	**130**	**~~J~~ F J**	190	24	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Anthracene	**410**	**~~F~~ J**	41	20	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Benzo[a]anthracene	**860**	**~~F~~ J**	39	19	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Benzo[a]pyrene	**680**	**~~F~~ J**	51	25	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Benzo[b]fluoranthene	**840**	**~~F~~ J**	59	30	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Benzo[g,h,i]perylene	**650**	**~~F~~ J**	97	21	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Benzo[k]fluoranthene	**440**	**~~F~~ J**	39	17	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Chrysene	**710**	**~~F~~ J**	44	22	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Dibenz(a,h)anthracene	**170**	**~~F~~ J**	97	20	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Fluoranthene	**1800**	**~~F~~ J**	97	19	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Fluorene	**180**	**~~F~~ J**	97	20	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Indeno[1,2,3-cd]pyrene	**600**	**~~F~~ J**	97	34	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
1-Methylnaphthalene	**140**	**~~J~~ F J**	190	21	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
2-Methylnaphthalene	**190**	**~~F~~ J**	190	34	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Naphthalene	**400**	**~~F~~ J**	190	21	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Phenanthrene	**2200**	**~~F~~ J**	39	19	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Pyrene	**1700**	**~~F~~ J**	97	18	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*05/03/13 09:41*	*05/06/13 14:37*	*4*

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: CV0731B-CS-SP

Lab Sample ID: 680-89896-5

Date Collected: 04/29/13 13:33
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 79.7

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	25	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Acenaphthylene	**11**	**J**	50	6.3	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Anthracene	**14**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Benzo[a]anthracene	**68**		10	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Benzo[a]pyrene	**46**		13	6.5	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Benzo[b]fluoranthene	**79**		15	7.7	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Benzo[g,h,i]perylene	**47**		25	5.5	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Benzo[k]fluoranthene	**29**		10	4.5	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Chrysene	**78**		11	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Dibenz(a,h)anthracene	**13**	**J**	25	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Fluoranthene	**67**		25	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Fluorene	**6.4**	**J**	25	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Indeno[1,2,3-cd]pyrene	**39**		25	8.9	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
1-Methylnaphthalene	**81**		50	5.5	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
2-Methylnaphthalene	**120**		50	8.9	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Naphthalene	**81**		50	5.5	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Phenanthrene	**87**		10	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Pyrene	**72**		25	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*05/03/13 09:41*	*05/06/13 17:57*	*1*

Client Sample ID: CV0662A-CS-SP

Lab Sample ID: 680-89896-6

Date Collected: 04/30/13 10:35
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 84.0

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	☼	05/03/13 09:41	05/06/13 18:12	1
Acenaphthylene	**36**	**J**	48	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Anthracene	**54**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Benzo[a]anthracene	**220**		9.5	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Benzo[a]pyrene	**190**		12	6.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Benzo[b]fluoranthene	**290**		15	7.3	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Benzo[g,h,i]perylene	**150**		24	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Benzo[k]fluoranthene	**120**		9.5	4.3	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Chrysene	**230**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Dibenz(a,h)anthracene	**54**		24	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Fluoranthene	**260**		24	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Fluorene	**15**	**J**	24	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Indeno[1,2,3-cd]pyrene	**160**		24	8.4	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
1-Methylnaphthalene	**37**	**J**	48	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
2-Methylnaphthalene	**53**		48	8.4	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Naphthalene	**67**		48	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Phenanthrene	**160**		9.5	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Pyrene	**230**		24	4.4	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*05/03/13 09:41*	*05/06/13 18:12*	*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: CV0670A-CS-SP

Lab Sample ID: 680-89896-7

Date Collected: 04/30/13 09:10
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Acenaphthylene	**350**		190	24	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Anthracene	**250**		40	20	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Benzo[a]anthracene	**700**		38	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Benzo[a]pyrene	**580**		50	25	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Benzo[b]fluoranthene	**940**		58	29	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Benzo[g,h,i]perylene	**650**		96	21	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Benzo[k]fluoranthene	**380**		38	17	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Chrysene	**640**		43	22	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Dibenz(a,h)anthracene	**160**		96	20	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Fluoranthene	**910**		96	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Fluorene	**66**	**J**	96	20	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Indeno[1,2,3-cd]pyrene	**660**		96	34	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
1-Methylnaphthalene	**170**	**J**	190	21	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
2-Methylnaphthalene	**280**		190	34	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Naphthalene	**310**		190	21	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Phenanthrene	**810**		38	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Pyrene	**750**		96	18	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*05/03/13 09:41*	*05/06/13 18:27*	*4*

Client Sample ID: CV0670B-CS-SP

Lab Sample ID: 680-89896-8

Date Collected: 04/30/13 09:15
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 84.8

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	24	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Acenaphthylene	**75**		47	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Anthracene	**93**		9.9	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Benzo[a]anthracene	**280**		9.5	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Benzo[a]pyrene	**260**		12	6.1	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Benzo[b]fluoranthene	**370**		14	7.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Benzo[g,h,i]perylene	**190**		24	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Benzo[k]fluoranthene	**190**		9.5	4.3	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Chrysene	**260**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Dibenz(a,h)anthracene	**63**		24	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Fluoranthene	**380**		24	4.7	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Fluorene	**20**	**J**	24	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Indeno[1,2,3-cd]pyrene	**190**		24	8.4	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
1-Methylnaphthalene	**56**		47	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
2-Methylnaphthalene	**77**		47	8.4	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Naphthalene	**110**		47	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Phenanthrene	**220**		9.5	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Pyrene	**290**		24	4.4	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*05/03/13 09:41*	*05/06/13 18:42*	*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: CV0670C-CS-SP

Lab Sample ID: 680-89896-9

Date Collected: 04/30/13 09:36
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	93	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Acenaphthylene	**33**	**J**	190	23	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Anthracene	**110**		39	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Benzo[a]anthracene	**310**		37	18	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Benzo[a]pyrene	**250**		48	24	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Benzo[b]fluoranthene	**350**		57	28	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Benzo[g,h,i]perylene	**180**		93	20	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Benzo[k]fluoranthene	**150**		37	17	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Chrysene	**280**		42	21	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Dibenz(a,h)anthracene	**55**	**J**	93	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Fluoranthene	**470**		93	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Fluorene	**41**	**J**	93	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Indeno[1,2,3-cd]pyrene	**170**		93	33	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
1-Methylnaphthalene	**36**	**J**	190	20	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
2-Methylnaphthalene	**56**	**J**	190	33	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Naphthalene	**61**	**J**	190	20	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Phenanthrene	**350**		37	18	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Pyrene	**340**		93	17	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*05/03/13 09:41*	*05/06/13 18:57*	*4*

Client Sample ID: CV0670D-CS-SP

Lab Sample ID: 680-89896-10

Date Collected: 04/30/13 09:48
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 84.6

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	24	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Acenaphthylene	**18**	**J**	47	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Anthracene	**42**		9.9	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Benzo[a]anthracene	**160**		9.4	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Benzo[a]pyrene	**150**		12	6.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Benzo[b]fluoranthene	**250**		14	7.2	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Benzo[g,h,i]perylene	**96**		24	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Benzo[k]fluoranthene	**79**		9.4	4.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Chrysene	**180**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Dibenz(a,h)anthracene	**30**		24	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Fluoranthene	**300**		24	4.7	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Fluorene	**15**	**J**	24	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Indeno[1,2,3-cd]pyrene	**95**		24	8.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
1-Methylnaphthalene	**18**	**J**	47	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
2-Methylnaphthalene	**24**	**J**	47	8.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Naphthalene	**29**	**J**	47	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Phenanthrene	**200**		9.4	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Pyrene	**230**		24	4.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*05/03/13 09:41*	*05/06/13 19:12*	*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: CV0670E-CS-SP

Lab Sample ID: 680-89896-11

Date Collected: 04/30/13 10:15
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 73.2

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	☼	05/03/13 09:41	05/06/13 19:27	1
Acenaphthylene	**7.9**	**J**	54	6.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Anthracene	**9.4**	**J**	11	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Benzo[a]anthracene	**55**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Benzo[a]pyrene	**43**		14	7.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Benzo[b]fluoranthene	**67**		17	8.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Benzo[g,h,i]perylene	**31**		27	6.0	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Benzo[k]fluoranthene	**27**		11	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Chrysene	**59**		12	6.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Dibenz(a,h)anthracene	**8.4**	**J**	27	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Fluoranthene	**71**		27	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Fluorene	27	U	27	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Indeno[1,2,3-cd]pyrene	**29**		27	9.7	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
1-Methylnaphthalene	**26**	**J**	54	6.0	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
2-Methylnaphthalene	**45**	**J**	54	9.7	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Naphthalene	**35**	**J**	54	6.0	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Phenanthrene	**50**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Pyrene	**53**		27	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*		*30 - 130*	*05/03/13 09:41*	*05/06/13 19:27*	*1*

Client Sample ID: CV0466A-CS-SP

Lab Sample ID: 680-89896-12

Date Collected: 04/30/13 14:10
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 75.7

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	27	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Acenaphthylene	**17**	**J**	53	6.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Anthracene	**39**		11	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Benzo[a]anthracene	**150**		11	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Benzo[a]pyrene	**110**		14	6.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Benzo[b]fluoranthene	**180**		16	8.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Benzo[g,h,i]perylene	**69**		27	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Benzo[k]fluoranthene	**62**		11	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Chrysene	**130**		12	6.0	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Dibenz(a,h)anthracene	**27**		27	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Fluoranthene	**200**		27	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Fluorene	**11**	**J**	27	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Indeno[1,2,3-cd]pyrene	**63**		27	9.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
1-Methylnaphthalene	**65**		53	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
2-Methylnaphthalene	**90**		53	9.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Naphthalene	**75**		53	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Phenanthrene	**160**		11	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Pyrene	**150**		27	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*05/03/13 09:41*	*05/06/13 19:43*	*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: CV0466B-CS-SP

Lab Sample ID: 680-89896-13

Date Collected: 04/30/13 14:20
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 75.9

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	☼	05/03/13 09:41	05/06/13 19:58	1
Acenaphthylene	**7.4**	**J**	53	6.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Anthracene	**11**		11	5.5	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Benzo[a]anthracene	**46**		11	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Benzo[a]pyrene	**34**		14	6.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Benzo[b]fluoranthene	**48**		16	8.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Benzo[g,h,i]perylene	**21**	**J**	26	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Benzo[k]fluoranthene	**26**		11	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Chrysene	**47**		12	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Dibenz(a,h)anthracene	26	U	26	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Fluoranthene	**44**		26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Fluorene	26	U	26	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Indeno[1,2,3-cd]pyrene	**22**	**J**	26	9.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
1-Methylnaphthalene	**13**	**J**	53	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
2-Methylnaphthalene	**18**	**J**	53	9.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Naphthalene	**28**	**J**	53	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Phenanthrene	**39**		11	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Pyrene	**39**		26	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*05/03/13 09:41*	*05/06/13 19:58*	*1*

Client Sample ID: CV0963A-CS-SP

Lab Sample ID: 680-89896-14

Date Collected: 04/30/13 12:40
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**48**	**J**	130	26	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Acenaphthylene	**15**	**J**	51	6.4	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Anthracene	**150**		11	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Benzo[a]anthracene	**330**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Benzo[a]pyrene	**230**		13	6.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Benzo[b]fluoranthene	**330**		16	7.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Benzo[g,h,i]perylene	**120**		26	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Benzo[k]fluoranthene	**130**		10	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Chrysene	**290**		11	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Dibenz(a,h)anthracene	**38**		26	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Fluoranthene	**550**		26	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Fluorene	**51**		26	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Indeno[1,2,3-cd]pyrene	**120**		26	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
1-Methylnaphthalene	**78**		51	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
2-Methylnaphthalene	**100**		51	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Naphthalene	**66**		51	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Phenanthrene	**560**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Pyrene	**430**		26	4.7	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*05/03/13 09:41*	*05/06/13 20:12*	*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: CV0964A-CS-SP

Lab Sample ID: 680-89896-15

Date Collected: 04/30/13 13:35
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Acenaphthylene	**40**	**J**	200	25	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Anthracene	**84**		41	21	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Benzo[a]anthracene	**310**		39	19	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Benzo[a]pyrene	**220**		51	26	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Benzo[b]fluoranthene	**280**		60	30	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Benzo[g,h,i]perylene	**120**		98	22	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Benzo[k]fluoranthene	**150**		39	18	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Chrysene	**230**		44	22	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Dibenz(a,h)anthracene	**40**	**J**	98	20	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Fluoranthene	**320**		98	20	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Fluorene	98	U	98	20	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Indeno[1,2,3-cd]pyrene	**120**		98	35	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
1-Methylnaphthalene	**65**	**J**	200	22	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
2-Methylnaphthalene	**130**	**J**	200	35	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Naphthalene	**78**	**J**	200	22	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Phenanthrene	**210**		39	19	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Pyrene	**270**		98	18	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*30 - 130*	*05/03/13 09:41*	*05/06/13 20:27*	*4*

Client Sample ID: CV0964B-CS-SP

Lab Sample ID: 680-89896-16

Date Collected: 04/30/13 13:50
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**44**	**J**	120	23	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Acenaphthylene	**140**		46	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Anthracene	**260**		9.8	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Benzo[a]anthracene	**820**		9.3	4.5	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Benzo[a]pyrene	**600**		12	6.0	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Benzo[b]fluoranthene	**830**		14	7.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Benzo[g,h,i]perylene	**280**		23	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Benzo[k]fluoranthene	**410**		9.3	4.2	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Chrysene	**650**		10	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Dibenz(a,h)anthracene	**110**		23	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Fluoranthene	**1400**		23	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Fluorene	**60**		23	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Indeno[1,2,3-cd]pyrene	**320**		23	8.2	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
1-Methylnaphthalene	**73**		46	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
2-Methylnaphthalene	**130**		46	8.2	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Naphthalene	**120**		46	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Phenanthrene	**720**		9.3	4.5	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Pyrene	**870**		23	4.3	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*30 - 130*	*05/03/13 09:41*	*05/06/13 20:43*	*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: CV0988A-CS

Lab Sample ID: 680-89896-17

Date Collected: 04/30/13 13:10
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 77.2

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	☼	05/03/13 09:41	05/06/13 20:58	1
Acenaphthylene	27	J	51	6.4	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Anthracene	57		11	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Benzo[a]anthracene	290		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Benzo[a]pyrene	250		13	6.7	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Benzo[b]fluoranthene	360		16	7.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Benzo[g,h,i]perylene	200	J	26	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Benzo[k]fluoranthene	170	J	10	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Chrysene	270		12	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Dibenz(a,h)anthracene	55		26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Fluoranthene	420		26	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Fluorene	14	J	26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Indeno[1,2,3-cd]pyrene	190	J	26	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
1-Methylnaphthalene	47	J	51	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
2-Methylnaphthalene	63		51	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Naphthalene	56		51	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Phenanthrene	240		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Pyrene	380		26	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*34*		*30 - 130*	*05/03/13 09:41*	*05/06/13 20:58*	*1*

Client Sample ID: CV0988A-CSD

Lab Sample ID: 680-89896-18

Date Collected: 04/30/13 13:10
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 77.5

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	☼	05/03/13 09:41	05/06/13 21:13	1
Acenaphthylene	19	J	51	6.4	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Anthracene	49		11	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Benzo[a]anthracene	180		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Benzo[a]pyrene	150		13	6.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Benzo[b]fluoranthene	240		16	7.9	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Benzo[g,h,i]perylene	110	J	26	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Benzo[k]fluoranthene	91	J	10	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Chrysene	170		12	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Dibenz(a,h)anthracene	30		26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Fluoranthene	300		26	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Fluorene	12	J	26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Indeno[1,2,3-cd]pyrene	96	J	26	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
1-Methylnaphthalene	35	J	51	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
2-Methylnaphthalene	51		51	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Naphthalene	38	J	51	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Phenanthrene	220		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Pyrene	240		26	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*36*		*30 - 130*	*05/03/13 09:41*	*05/06/13 21:13*	*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: CV0988B-CS

Lab Sample ID: 680-89896-19

Date Collected: 04/30/13 13:00
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 87.5

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	☼	05/03/13 09:41	05/06/13 21:28	1
Acenaphthylene	**6.0**	**J**	46	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Anthracene	**16**		9.6	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Benzo[a]anthracene	**45**		9.2	4.5	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Benzo[a]pyrene	**36**		12	6.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Benzo[b]fluoranthene	**55**		14	7.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Benzo[g,h,i]perylene	**25**		23	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Benzo[k]fluoranthene	**26**		9.2	4.1	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Chrysene	**48**		10	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Dibenz(a,h)anthracene	**5.9**	**J**	23	4.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Fluoranthene	**57**		23	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Fluorene	23	U	23	4.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Indeno[1,2,3-cd]pyrene	**23**		23	8.1	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
1-Methylnaphthalene	**13**	**J**	46	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
2-Methylnaphthalene	**19**	**J**	46	8.1	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Naphthalene	**16**	**J**	46	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Phenanthrene	**53**		9.2	4.5	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Pyrene	**49**		23	4.2	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*32*		*30 - 130*	*05/03/13 09:41*	*05/06/13 21:28*	*1*

Client Sample ID: 050113-RB-Bowls&Spoons

Lab Sample ID: 680-89896-23

Date Collected: 05/01/13 09:30
Matrix: Water
Date Received: 05/02/13 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.2	U	2.2	0.56	ug/L		05/07/13 14:43	05/08/13 16:00	1
Acenaphthylene	1.1	U	1.1	0.28	ug/L		05/07/13 14:43	05/08/13 16:00	1
Anthracene	0.22	U	0.22	0.084	ug/L		05/07/13 14:43	05/08/13 16:00	1
Benzo[a]anthracene	0.22	U	0.22	0.056	ug/L		05/07/13 14:43	05/08/13 16:00	1
Benzo[a]pyrene	0.22	U	0.22	0.063	ug/L		05/07/13 14:43	05/08/13 16:00	1
Benzo[b]fluoranthene	0.22	U	0.22	0.056	ug/L		05/07/13 14:43	05/08/13 16:00	1
Benzo[g,h,i]perylene	0.56	~~UJ~~ UJ	0.56	0.11	ug/L		05/07/13 14:43	05/08/13 16:00	1
Benzo[k]fluoranthene	0.22	U	0.22	0.063	ug/L		05/07/13 14:43	05/08/13 16:00	1
Chrysene	0.22	U	0.22	0.077	ug/L		05/07/13 14:43	05/08/13 16:00	1
Dibenz(a,h)anthracene	0.22	U	0.22	0.056	ug/L		05/07/13 14:43	05/08/13 16:00	1
Fluoranthene	0.56	U	0.56	0.060	ug/L		05/07/13 14:43	05/08/13 16:00	1
Fluorene	2.2	U	2.2	0.56	ug/L		05/07/13 14:43	05/08/13 16:00	1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.056	ug/L		05/07/13 14:43	05/08/13 16:00	1
1-Methylnaphthalene	2.2	U	2.2	0.56	ug/L		05/07/13 14:43	05/08/13 16:00	1
2-Methylnaphthalene	2.2	U	2.2	0.56	ug/L		05/07/13 14:43	05/08/13 16:00	1
Naphthalene	2.2	U	2.2	0.28	ug/L		05/07/13 14:43	05/08/13 16:00	1
Phenanthrene	0.56	U	0.56	0.22	ug/L		05/07/13 14:43	05/08/13 16:00	1
Pyrene	0.56	U	0.56	0.099	ug/L		05/07/13 14:43	05/08/13 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*30 - 130*	*05/07/13 14:43*	*05/08/13 16:00*	*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)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-89896-1

SDG Number: 68089896-1

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
5/14/2013 3:48 PM

Designee for
Lisa Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
lisa.harvey@testamericainc.com
05/14/2013

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

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

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89896-1

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

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

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

RECEIPT

The samples were received on 05/02/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.3 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0727A-CS-SP (680-89896-1), CV0728A-CS-SP (680-89896-2), CV0728B-CS-SP (680-89896-3), CV0731A-CS-SP (680-89896-4), CV0731B-CS-SP (680-89896-5), CV0662A-CS-SP (680-89896-6), CV0670A-CS-SP (680-89896-7), CV0670B-CS-SP (680-89896-8), CV0670C-CS-SP (680-89896-9), CV0670D-CS-SP (680-89896-10), CV0670E-CS-SP (680-89896-11), CV0466A-CS-SP (680-89896-12), CV0466B-CS-SP (680-89896-13), CV0963A-CS-SP (680-89896-14), CV0964A-CS-SP (680-89896-15), CV0964B-CS-SP (680-89896-16), CV0988A-CS (680-89896-17), CV0988A-CSD (680-89896-18) and CV0988B-CS (680-89896-19) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/03/2013 and analyzed on 05/06/2013.

Samples CV0731A-CS-SP (680-89896-4)[4X], CV0670A-CS-SP (680-89896-7)[4X], CV0670C-CS-SP (680-89896-9)[4X] and CV0964A-CS-SP (680-89896-15)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0731A-CS-SPMS (680-89896-4) in batch 660-137156. Several analytes exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)-Water

Sample 050113-RB-Bowls&Spoons (680-89896-23) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/07/2013 and analyzed on 05/08/2013.

Benzo[g,h,i]perylene recovered outside the recovery criteria for the MS of sample 050113-RB-Bowls&SpoonsMS (680-89896-23) in batch 660-137292.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-1
Sdg Number: 68089896-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89896-1	CV0727A-CS-SP	Solid	04/29/2013 1424	05/02/2013 1030
680-89896-2	CV0728A-CS-SP	Solid	04/29/2013 1351	05/02/2013 1030
680-89896-3	CV0728B-CS-SP	Solid	04/29/2013 1357	05/02/2013 1030
680-89896-4	CV0731A-CS-SP	Solid	04/29/2013 1322	05/02/2013 1030
680-89896-4MS	CV0731A-CS-SP	Solid	04/29/2013 1322	05/02/2013 1030
680-89896-4MSD	CV0731A-CS-SP	Solid	04/29/2013 1322	05/02/2013 1030
680-89896-5	CV0731B-CS-SP	Solid	04/29/2013 1333	05/02/2013 1030
680-89896-6	CV0662A-CS-SP	Solid	04/30/2013 1035	05/02/2013 1030
680-89896-7	CV0670A-CS-SP	Solid	04/30/2013 0910	05/02/2013 1030
680-89896-8	CV0670B-CS-SP	Solid	04/30/2013 0915	05/02/2013 1030
680-89896-9	CV0670C-CS-SP	Solid	04/30/2013 0936	05/02/2013 1030
680-89896-10	CV0670D-CS-SP	Solid	04/30/2013 0948	05/02/2013 1030
680-89896-11	CV0670E-CS-SP	Solid	04/30/2013 1015	05/02/2013 1030
680-89896-12	CV0466A-CS-SP	Solid	04/30/2013 1410	05/02/2013 1030
680-89896-13	CV0466B-CS-SP	Solid	04/30/2013 1420	05/02/2013 1030
680-89896-14	CV0963A-CS-SP	Solid	04/30/2013 1240	05/02/2013 1030
680-89896-15	CV0964A-CS-SP	Solid	04/30/2013 1335	05/02/2013 1030
680-89896-16	CV0964B-CS-SP	Solid	04/30/2013 1350	05/02/2013 1030
680-89896-17	CV0988A-CS	Solid	04/30/2013 1310	05/02/2013 1030
680-89896-18	CV0988A-CSD	Solid	04/30/2013 1310	05/02/2013 1030
680-89896-19	CV0988B-CS	Solid	04/30/2013 1300	05/02/2013 1030
680-89896-23	050113-RB-Bowls&Spoons	Water	05/01/2013 0930	05/02/2013 1030

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-1
Sdg Number: 68089896-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Microwave Extraction	TAL TAM		SW846 3546
Percent Moisture	TAL TAM	EPA Moisture	
Matrix: Water			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Liquid-Liquid Extraction (Continuous)	TAL TAM		SW846 3520C

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: 680-89896-1
Sdg Number: 68089896-1

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-1
Sdg Number: 68089896-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	E	Result exceeded calibration range.
	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: 680-89896-1
Sdg Number: 68089896-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-137098					
LCS 660-137098/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137098/1-A	Method Blank	T	Solid	3546	
680-89896-1	CV0727A-CS-SP	T	Solid	3546	
680-89896-2	CV0728A-CS-SP	T	Solid	3546	
680-89896-3	CV0728B-CS-SP	T	Solid	3546	
680-89896-4	CV0731A-CS-SP	T	Solid	3546	
680-89896-4MS	Matrix Spike	T	Solid	3546	
680-89896-4MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89896-5	CV0731B-CS-SP	T	Solid	3546	
680-89896-6	CV0662A-CS-SP	T	Solid	3546	
680-89896-7	CV0670A-CS-SP	T	Solid	3546	
680-89896-8	CV0670B-CS-SP	T	Solid	3546	
680-89896-9	CV0670C-CS-SP	T	Solid	3546	
680-89896-10	CV0670D-CS-SP	T	Solid	3546	
680-89896-11	CV0670E-CS-SP	T	Solid	3546	
680-89896-12	CV0466A-CS-SP	T	Solid	3546	
680-89896-13	CV0466B-CS-SP	T	Solid	3546	
680-89896-14	CV0963A-CS-SP	T	Solid	3546	
680-89896-15	CV0964A-CS-SP	T	Solid	3546	
680-89896-16	CV0964B-CS-SP	T	Solid	3546	
680-89896-17	CV0988A-CS	T	Solid	3546	
680-89896-18	CV0988A-CSD	T	Solid	3546	
680-89896-19	CV0988B-CS	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-1
Sdg Number: 68089896-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-137156					
LCS 660-137098/2-A	Lab Control Sample	T	Solid	8270C LL	660-137098
MB 660-137098/1-A	Method Blank	T	Solid	8270C LL	660-137098
680-89896-1	CV0727A-CS-SP	T	Solid	8270C LL	660-137098
680-89896-2	CV0728A-CS-SP	T	Solid	8270C LL	660-137098
680-89896-3	CV0728B-CS-SP	T	Solid	8270C LL	660-137098
680-89896-4	CV0731A-CS-SP	T	Solid	8270C LL	660-137098
680-89896-4MS	Matrix Spike	T	Solid	8270C LL	660-137098
680-89896-4MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137098
680-89896-5	CV0731B-CS-SP	T	Solid	8270C LL	660-137098
680-89896-6	CV0662A-CS-SP	T	Solid	8270C LL	660-137098
680-89896-7	CV0670A-CS-SP	T	Solid	8270C LL	660-137098
680-89896-8	CV0670B-CS-SP	T	Solid	8270C LL	660-137098
680-89896-9	CV0670C-CS-SP	T	Solid	8270C LL	660-137098
680-89896-10	CV0670D-CS-SP	T	Solid	8270C LL	660-137098
680-89896-11	CV0670E-CS-SP	T	Solid	8270C LL	660-137098
680-89896-12	CV0466A-CS-SP	T	Solid	8270C LL	660-137098
680-89896-13	CV0466B-CS-SP	T	Solid	8270C LL	660-137098
680-89896-14	CV0963A-CS-SP	T	Solid	8270C LL	660-137098
680-89896-15	CV0964A-CS-SP	T	Solid	8270C LL	660-137098
680-89896-16	CV0964B-CS-SP	T	Solid	8270C LL	660-137098
680-89896-17	CV0988A-CS	T	Solid	8270C LL	660-137098
680-89896-18	CV0988A-CSD	T	Solid	8270C LL	660-137098
680-89896-19	CV0988B-CS	T	Solid	8270C LL	660-137098
Prep Batch: 660-137196					
LCS 660-137196/2-A	Lab Control Sample	T	Water	3520C	
LCSD 660-137196/3-A	Lab Control Sample Duplicate	T	Water	3520C	
MB 660-137196/1-A	Method Blank	T	Water	3520C	
680-89896-23	050113-RB-Bowls&Spoons	T	Water	3520C	
680-89896-23MS	Matrix Spike	T	Water	3520C	
Analysis Batch:660-137292					
LCS 660-137196/2-A	Lab Control Sample	T	Water	8270C LL	660-137196
LCSD 660-137196/3-A	Lab Control Sample Duplicate	T	Water	8270C LL	660-137196
MB 660-137196/1-A	Method Blank	T	Water	8270C LL	660-137196
680-89896-23	050113-RB-Bowls&Spoons	T	Water	8270C LL	660-137196
680-89896-23MS	Matrix Spike	T	Water	8270C LL	660-137196

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-1
Sdg Number: 68089896-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-137086					
680-89896-1	CV0727A-CS-SP	T	Solid	Moisture	
680-89896-2	CV0728A-CS-SP	T	Solid	Moisture	
680-89896-3	CV0728B-CS-SP	T	Solid	Moisture	
680-89896-4	CV0731A-CS-SP	T	Solid	Moisture	
680-89896-4MS	Matrix Spike	T	Solid	Moisture	
680-89896-4MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89896-5	CV0731B-CS-SP	T	Solid	Moisture	
680-89896-6	CV0662A-CS-SP	T	Solid	Moisture	
680-89896-7	CV0670A-CS-SP	T	Solid	Moisture	
680-89896-8	CV0670B-CS-SP	T	Solid	Moisture	
680-89896-9	CV0670C-CS-SP	T	Solid	Moisture	
680-89896-10	CV0670D-CS-SP	T	Solid	Moisture	
680-89896-11	CV0670E-CS-SP	T	Solid	Moisture	
680-89896-12	CV0466A-CS-SP	T	Solid	Moisture	
680-89896-13	CV0466B-CS-SP	T	Solid	Moisture	
680-89896-14	CV0963A-CS-SP	T	Solid	Moisture	
680-89896-15	CV0964A-CS-SP	T	Solid	Moisture	
680-89896-16	CV0964B-CS-SP	T	Solid	Moisture	
680-89896-17	CV0988A-CS	T	Solid	Moisture	
680-89896-18	CV0988A-CSD	T	Solid	Moisture	
680-89896-19	CV0988B-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Analysis Batch Number: 136892

Lab Sample ID: IC 660-136892/3 Client Sample ID:

Date Analyzed: 04/26/13 10:03 Lab File ID: 1AD26003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	04/26/13 12:57
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	04/26/13 12:51
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	04/26/13 12:51

Lab Sample ID: IC 660-136892/4 Client Sample ID:

Date Analyzed: 04/26/13 10:18 Lab File ID: 1AD26004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	04/26/13 12:51
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	04/26/13 12:52
Dibenz(a,h)anthracene	8.44	Baseline Event	cantins	04/26/13 12:52
Benzo[g,h,i]perylene	8.62	Baseline Event	cantins	04/26/13 12:52

Lab Sample ID: IC 660-136892/5 Client Sample ID:

Date Analyzed: 04/26/13 10:33 Lab File ID: 1AD26005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.45	Baseline Event	cantins	04/26/13 12:53
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	04/26/13 12:53

Lab Sample ID: IC 660-136892/6 Client Sample ID:

Date Analyzed: 04/26/13 10:48 Lab File ID: 1AD26006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.45	Baseline Event	cantins	04/26/13 12:54
Benzo[g,h,i]perylene	8.64	Baseline Event	cantins	04/26/13 12:54

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Analysis Batch Number: 136892

Lab Sample ID: ICIS 660-136892/7 Client Sample ID:

Date Analyzed: 04/26/13 11:03 Lab File ID: 1AD26007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	6.60	Baseline Event	cantins	04/26/13 12:58

Lab Sample ID: IC 660-136892/8 Client Sample ID:

Date Analyzed: 04/26/13 11:19 Lab File ID: 1AD26008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	6.60	Baseline Event	cantins	04/26/13 12:56

Lab Sample ID: IC 660-136892/9 Client Sample ID:

Date Analyzed: 04/26/13 11:34 Lab File ID: 1AD26009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	6.61	Baseline Event	cantins	04/26/13 12:55
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	04/26/13 12:55

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Analysis Batch Number: 137156

Lab Sample ID: IC 660-137156/4 Client Sample ID:

Date Analyzed: 05/06/13 10:40 Lab File ID: 1AE06004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	4.53	Baseline Event	cantins	05/06/13 12:53
Fluoranthene	5.39	Baseline Event	cantins	05/06/13 12:53
Benzo[k]fluoranthene	7.35	Baseline Event	cantins	05/06/13 12:54
Benzo[g,h,i]perylene	8.58	Baseline Event	cantins	05/06/13 12:54

Lab Sample ID: IC 660-137156/5 Client Sample ID:

Date Analyzed: 05/06/13 10:56 Lab File ID: 1AE06005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.70	Baseline Event	cantins	05/06/13 12:55
Chrysene	6.54	Baseline Event	cantins	05/06/13 12:55
Benzo[k]fluoranthene	7.36	Baseline Event	cantins	05/06/13 12:55
Indeno[1,2,3-cd]pyrene	8.36	Split Peak	cantins	05/06/13 12:56
Dibenz(a,h)anthracene	8.38	Baseline Event	cantins	05/06/13 12:55
Benzo[g,h,i]perylene	8.56	Baseline Event	cantins	05/06/13 12:55

Lab Sample ID: IC 660-137156/6 Client Sample ID:

Date Analyzed: 05/06/13 11:11 Lab File ID: 1AE06006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.70	Baseline Event	cantins	05/06/13 12:56
Indeno[1,2,3-cd]pyrene	8.36	Split Peak	cantins	05/06/13 12:57
Dibenz(a,h)anthracene	8.39	Baseline Event	cantins	05/06/13 12:57
Benzo[g,h,i]perylene	8.57	Baseline Event	cantins	05/06/13 12:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Analysis Batch Number: 137156

Lab Sample ID: IC 660-137156/7 Client Sample ID:

Date Analyzed: 05/06/13 11:26 Lab File ID: 1AE06007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.36	Split Peak	cantins	05/06/13 12:58
Benzo[g,h,i]perylene	8.58	Baseline Event	cantins	05/06/13 12:58

Lab Sample ID: IC 660-137156/9 Client Sample ID:

Date Analyzed: 05/06/13 11:56 Lab File ID: 1AE06009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Anthracene	4.57	Baseline Event	cantins	05/06/13 12:59

Lab Sample ID: LCS 660-137098/2-A Client Sample ID:

Date Analyzed: 05/06/13 13:37 Lab File ID: 1AE06012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.36	Baseline Event	cantins	05/06/13 14:53
Indeno[1,2,3-cd]pyrene	8.37	Split Peak	cantins	05/06/13 14:53
Dibenz(a,h)anthracene	8.40	Baseline Event	cantins	05/06/13 14:53
Benzo[g,h,i]perylene	8.59	Baseline Event	cantins	05/06/13 14:53

Lab Sample ID: 680-89896-1 Client Sample ID: CV0727A-CS-SP

Date Analyzed: 05/06/13 13:52 Lab File ID: 1AE06013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.34	Split Peak	cantins	05/07/13 17:27
Benzo[k]fluoranthene	7.35	Baseline Event	cantins	05/07/13 17:28
Indeno[1,2,3-cd]pyrene	8.37	Split Peak	cantins	05/07/13 17:28
Benzo[g,h,i]perylene	8.58	Baseline Event	cantins	05/07/13 17:28

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Analysis Batch Number: 137156

Lab Sample ID: 680-89896-2 Client Sample ID: CV0728A-CS-SP

Date Analyzed: 05/06/13 14:07 Lab File ID: 1AE06014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.34	Split Peak	cantins	05/07/13 17:29
Benzo[k]fluoranthene	7.36	Baseline Event	cantins	05/07/13 17:29
Indeno[1,2,3-cd]pyrene	8.37	Split Peak	cantins	05/07/13 17:30
Benzo[g,h,i]perylene	8.58	Baseline Event	cantins	05/07/13 17:30

Lab Sample ID: 680-89896-3 Client Sample ID: CV0728B-CS-SP

Date Analyzed: 05/06/13 14:22 Lab File ID: 1AE06015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.34	Split Peak	cantins	05/07/13 17:31
Benzo[k]fluoranthene	7.35	Baseline Event	cantins	05/07/13 17:31
Indeno[1,2,3-cd]pyrene	8.38	Split Peak	cantins	05/07/13 17:32
Benzo[g,h,i]perylene	8.59	Baseline Event	cantins	05/07/13 17:31

Lab Sample ID: 680-89896-4 Client Sample ID: CV0731A-CS-SP

Date Analyzed: 05/06/13 14:37 Lab File ID: 1AE06016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.35	Split Peak	cantins	05/07/13 17:32
Benzo[k]fluoranthene	7.36	Baseline Event	cantins	05/07/13 17:32
Indeno[1,2,3-cd]pyrene	8.38	Split Peak	cantins	05/07/13 17:33

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Analysis Batch Number: 137156

Lab Sample ID: 680-89896-4 MS Client Sample ID: CV0731A-CS-SP MS

Date Analyzed: 05/06/13 17:26 Lab File ID: 1AE06027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.38	Split Peak	cantins	05/08/13 17:13
Dibenz(a,h)anthracene	8.41	Baseline Event	cantins	05/08/13 17:13

Lab Sample ID: 680-89896-4 MSD Client Sample ID: CV0731A-CS-SP MSD

Date Analyzed: 05/06/13 17:42 Lab File ID: 1AE06028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/08/13 17:15
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/08/13 17:15
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/08/13 17:14

Lab Sample ID: 680-89896-5 Client Sample ID: CV0731B-CS-SP

Date Analyzed: 05/06/13 17:57 Lab File ID: 1AE06029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	05/08/13 17:17
Benzo[k]fluoranthene	7.37	Baseline Event	cantins	05/08/13 17:17
Indeno[1,2,3-cd]pyrene	8.39	Split Peak	cantins	05/08/13 17:18

Lab Sample ID: 680-89896-6 Client Sample ID: CV0662A-CS-SP

Date Analyzed: 05/06/13 18:12 Lab File ID: 1AE06030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	05/08/13 17:19
Benzo[k]fluoranthene	7.37	Baseline Event	cantins	05/08/13 17:19
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/08/13 17:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Analysis Batch Number: 137156

Lab Sample ID: 680-89896-7 Client Sample ID: CV0670A-CS-SP

Date Analyzed: 05/06/13 18:27 Lab File ID: 1AE06031.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	05/08/13 17:34
Benzo[k]fluoranthene	7.37	Baseline Event	cantins	05/08/13 17:34
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/08/13 17:34

Lab Sample ID: 680-89896-8 Client Sample ID: CV0670B-CS-SP

Date Analyzed: 05/06/13 18:42 Lab File ID: 1AE06032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/08/13 17:36
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/08/13 17:37
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	05/08/13 17:37

Lab Sample ID: 680-89896-9 Client Sample ID: CV0670C-CS-SP

Date Analyzed: 05/06/13 18:57 Lab File ID: 1AE06033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	05/08/13 17:42
Benzo[k]fluoranthene	7.37	Baseline Event	cantins	05/08/13 17:42
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/08/13 17:43

Lab Sample ID: 680-89896-10 Client Sample ID: CV0670D-CS-SP

Date Analyzed: 05/06/13 19:12 Lab File ID: 1AE06034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	05/08/13 17:44
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/08/13 17:44
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/08/13 17:45

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Analysis Batch Number: 137156

Lab Sample ID: 680-89896-11 Client Sample ID: CV0670E-CS-SP

Date Analyzed: 05/06/13 19:27 Lab File ID: 1AE06035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/08/13 17:46
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/08/13 17:46
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	05/08/13 17:47

Lab Sample ID: 680-89896-12 Client Sample ID: CV0466A-CS-SP

Date Analyzed: 05/06/13 19:43 Lab File ID: 1AE06036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/09/13 10:15
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/09/13 10:16
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	05/09/13 10:16

Lab Sample ID: 680-89896-13 Client Sample ID: CV0466B-CS-SP

Date Analyzed: 05/06/13 19:58 Lab File ID: 1AE06037.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/09/13 10:16
Benzo[k]fluoranthene	7.37	Baseline Event	cantins	05/09/13 10:17
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/09/13 10:18
Benzo[g,h,i]perylene	8.62	Baseline Event	cantins	05/09/13 10:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Analysis Batch Number: 137156

Lab Sample ID: 680-89896-14 Client Sample ID: CV0963A-CS-SP

Date Analyzed: 05/06/13 20:12 Lab File ID: 1AE06038.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/09/13 10:18
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/09/13 10:18
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	05/09/13 10:19

Lab Sample ID: 680-89896-15 Client Sample ID: CV0964A-CS-SP

Date Analyzed: 05/06/13 20:27 Lab File ID: 1AE06039.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	05/09/13 10:20
Benzo[k]fluoranthene	7.37	Baseline Event	cantins	05/09/13 10:20
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/09/13 10:20

Lab Sample ID: 680-89896-16 Client Sample ID: CV0964B-CS-SP

Date Analyzed: 05/06/13 20:43 Lab File ID: 1AE06040.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/09/13 10:21
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	05/09/13 10:21
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	05/09/13 10:22

Lab Sample ID: 680-89896-17 Client Sample ID: CV0988A-CS

Date Analyzed: 05/06/13 20:58 Lab File ID: 1AE06041.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/09/13 10:22
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/09/13 10:23
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	05/09/13 10:23

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Analysis Batch Number: 137156

Lab Sample ID: 680-89896-18 Client Sample ID: CV0988A-CSD

Date Analyzed: 05/06/13 21:13 Lab File ID: 1AE06042.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/09/13 10:24
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/09/13 10:24
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	05/09/13 10:25

Lab Sample ID: 680-89896-19 Client Sample ID: CV0988B-CS

Date Analyzed: 05/06/13 21:28 Lab File ID: 1AE06043.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/09/13 10:26
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/09/13 10:27
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	05/09/13 10:27
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	05/09/13 10:27

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Analysis Batch Number: 137292

Lab Sample ID: CCVIS 660-137292/3 Client Sample ID:

Date Analyzed: 05/08/13 14:31 Lab File ID: 1AE08003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/08/13 14:47
Dibenz(a,h)anthracene	8.42	Baseline Event	cantins	05/08/13 14:47
Benzo[g,h,i]perylene	8.61	Baseline Event	cantins	05/08/13 14:47

Lab Sample ID: LCS 660-137196/2-A Client Sample ID:

Date Analyzed: 05/08/13 15:30 Lab File ID: 1AE08006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.37	Split Peak	cantins	05/09/13 14:46
Dibenz(a,h)anthracene	8.40	Baseline Event	cantins	05/09/13 14:46
Benzo[g,h,i]perylene	8.58	Baseline Event	cantins	05/09/13 14:46

Lab Sample ID: LCSD 660-137196/3-A Client Sample ID:

Date Analyzed: 05/08/13 15:45 Lab File ID: 1AE08007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.37	Split Peak	cantins	05/09/13 14:47
Dibenz(a,h)anthracene	8.39	Baseline Event	cantins	05/09/13 14:47
Benzo[g,h,i]perylene	8.58	Baseline Event	cantins	05/09/13 14:47

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Analysis Batch Number: 137292

Lab Sample ID: 680-89896-23 MS Client Sample ID: 050113-RB-Bowls&Spoons MS

Date Analyzed: 05/08/13 16:16 Lab File ID: 1AE08009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.36	Baseline Event	cantins	05/09/13 14:48
Indeno[1,2,3-cd]pyrene	8.37	Split Peak	cantins	05/09/13 14:49
Dibenz(a,h)anthracene	8.39	Baseline Event	cantins	05/09/13 14:48
Benzo[g,h,i]perylene	8.58	Baseline Event	cantins	05/09/13 14:48

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.: 680-89896-1

SDG No.: 68089896-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0727A-CS-SP	680-89896-1	53
CV0728A-CS-SP	680-89896-2	61
CV0728B-CS-SP	680-89896-3	44
CV0731A-CS-SP	680-89896-4	55
CV0731B-CS-SP	680-89896-5	48
CV0662A-CS-SP	680-89896-6	47
CV0670A-CS-SP	680-89896-7	48
CV0670B-CS-SP	680-89896-8	50
CV0670C-CS-SP	680-89896-9	50
CV0670D-CS-SP	680-89896-10	46
CV0670E-CS-SP	680-89896-11	45
CV0466A-CS-SP	680-89896-12	47
CV0466B-CS-SP	680-89896-13	49
CV0963A-CS-SP	680-89896-14	48
CV0964A-CS-SP	680-89896-15	53
CV0964B-CS-SP	680-89896-16	53
CV0988A-CS	680-89896-17	34
CV0988A-CSD	680-89896-18	36
CV0988B-CS	680-89896-19	32
	MB 660-137098/1-A	73
	LCS 660-137098/2-A	73
CV0731A-CS-SP MS	680-89896-4 MS	60
CV0731A-CS-SP MSD	680-89896-4 MSD	55

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
050113-RB-Bowls&Spoons	680-89896-23	81
	MB 660-137196/1-A	81
	LCS 660-137196/2-A	85
	LCSD 660-137196/3-A	80
050113-RB-Bowls&Spoons MS	680-89896-23 MS	87

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Matrix: Solid Level: Low Lab File ID: 1AE06012.D

Lab ID: LCS 660-137098/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	669	456	68	39-130	
Acenaphthylene	669	481	72	38-130	
Anthracene	669	510	76	37-130	
Benzo[a]anthracene	669	518	78	40-130	
Benzo[a]pyrene	669	456	68	49-130	
Benzo[b]fluoranthene	669	440	66	37-130	
Benzo[g,h,i]perylene	669	536	80	32-130	
Benzo[k]fluoranthene	669	447	67	32-130	
Chrysene	669	449	67	41-130	
Dibenz(a,h)anthracene	669	538	80	27-130	
Fluoranthene	669	532	79	40-130	
Fluorene	669	498	74	40-130	
Indeno[1,2,3-cd]pyrene	669	505	75	30-130	
1-Methylnaphthalene	669	520	78	31-130	
2-Methylnaphthalene	669	507	76	33-130	
Naphthalene	669	455	68	36-130	
Phenanthrene	669	492	73	42-130	
Pyrene	669	492	74	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.: 680-89896-1

SDG No.: 68089896-1

Matrix: Water Level: Low Lab File ID: 1AE08006.D

Lab ID: LCS 660-137196/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	10.0	7.65	77	55-132	
Acenaphthylene	10.0	8.64	86	39-130	
Anthracene	10.0	8.45	85	39-130	
Benzo[a]anthracene	10.0	8.07	81	54-135	
Benzo[a]pyrene	10.0	5.44	54	21-130	
Benzo[b]fluoranthene	10.0	6.12	61	37-130	
Benzo[g,h,i]perylene	10.0	3.70	37	26-130	
Benzo[k]fluoranthene	10.0	6.98	70	38-130	
Chrysene	10.0	7.73	77	56-130	
Dibenz(a,h)anthracene	10.0	3.18	32	13-130	
Fluoranthene	10.0	9.06	91	60-130	
Fluorene	10.0	8.78	88	55-140	
Indeno[1,2,3-cd]pyrene	10.0	2.96	30	21-130	
1-Methylnaphthalene	10.0	8.61	86	49-130	
2-Methylnaphthalene	10.0	8.75	87	48-130	
Naphthalene	10.0	8.02	80	54-133	
Phenanthrene	10.0	8.39	84	60-136	
Pyrene	10.0	8.58	86	60-138	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Matrix: Water Level: Low Lab File ID: 1AE08007.D

Lab ID: LCSD 660-137196/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	10.0	8.07	81	5	35	55-132	
Acenaphthylene	10.0	8.53	85	1	35	39-130	
Anthracene	10.0	8.31	83	2	35	39-130	
Benzo[a]anthracene	10.0	7.92	79	2	35	54-135	
Benzo[a]pyrene	10.0	4.66	47	15	35	21-130	
Benzo[b]fluoranthene	10.0	6.04	60	1	35	37-130	
Benzo[g,h,i]perylene	10.0	3.10	31	18	35	26-130	
Benzo[k]fluoranthene	10.0	5.73	57	20	35	38-130	
Chrysene	10.0	7.35	73	5	35	56-130	
Dibenz(a,h)anthracene	10.0	2.91	29	9	35	13-130	
Fluoranthene	10.0	8.54	85	6	35	60-130	
Fluorene	10.0	8.71	87	1	35	55-140	
Indeno[1,2,3-cd]pyrene	10.0	2.64	26	12	35	21-130	
1-Methylnaphthalene	10.0	9.19	92	7	35	49-130	
2-Methylnaphthalene	10.0	8.77	88	0	35	48-130	
Naphthalene	10.0	8.00	80	0	35	54-133	
Phenanthrene	10.0	8.39	84	0	35	60-136	
Pyrene	10.0	8.45	84	2	35	60-138	

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.: 680-89896-1

SDG No.: 68089896-1

Matrix: Solid Level: Low Lab File ID: 1AE06027.D

Lab ID: 680-89896-4 MS Client ID: CV0731A-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	810	97 J	491	49	39-130	
Acenaphthylene	810	130 J	632	62	38-130	
Anthracene	810	410	676	33	37-130	F
Benzo[a]anthracene	810	860	1070	26	40-130	F
Benzo[a]pyrene	810	680	843	20	49-130	F
Benzo[b]fluoranthene	810	840	1100	33	37-130	F
Benzo[g,h,i]perylene	810	650	887	29	32-130	F
Benzo[k]fluoranthene	810	440	655	26	32-130	F
Chrysene	810	710	792	11	41-130	F
Dibenz(a,h)anthracene	810	170	705	66	27-130	
Fluoranthene	810	1800	1310	-60	40-130	F
Fluorene	810	180	571	48	40-130	
Indeno[1,2,3-cd]pyrene	810	600	937	42	30-130	
1-Methylnaphthalene	810	140 J	616	59	31-130	
2-Methylnaphthalene	810	190	645	57	33-130	
Naphthalene	810	400	604	25	36-130	F
Phenanthrene	810	2200	1220	-123	42-130	F
Pyrene	810	1700	1250	-55	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.: 680-89896-1

SDG No.: 68089896-1

Matrix: Water Level: Low Lab File ID: 1AE08009.D

Lab ID: 680-89896-23 MS Client ID: 050113-RB-Bowls&Spoons MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	10.5	2.2 U	8.80	84	55-132	
Acenaphthylene	10.5	1.1 U	9.35	89	39-130	
Anthracene	10.5	0.22 U	9.13	87	39-130	
Benzo[a]anthracene	10.5	0.22 U	8.50	81	54-135	
Benzo[a]pyrene	10.5	0.22 U	4.94	47	21-130	
Benzo[b]fluoranthene	10.5	0.22 U	6.25	59	37-130	
Benzo[g,h,i]perylene	10.5	0.56 U	2.66	25	26-130	F
Benzo[k]fluoranthene	10.5	0.22 U	5.40	51	38-130	
Chrysene	10.5	0.22 U	7.23	69	56-130	
Dibenz(a,h)anthracene	10.5	0.22 U	2.09	20	13-130	
Fluoranthene	10.5	0.56 U	9.52	90	60-130	
Fluorene	10.5	2.2 U	9.62	91	55-140	
Indeno[1,2,3-cd]pyrene	10.5	0.22 U	2.55	24	21-130	
1-Methylnaphthalene	10.5	2.2 U	10.2	97	49-130	
2-Methylnaphthalene	10.5	2.2 U	9.81	93	48-130	
Naphthalene	10.5	2.2 U	9.05	86	54-133	
Phenanthrene	10.5	0.56 U	9.06	86	60-136	
Pyrene	10.5	0.56 U	9.48	90	60-138	

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.: 680-89896-1

SDG No.: 68089896-1

Matrix: Solid Level: Low Lab File ID: 1AE06028.D

Lab ID: 680-89896-4 MSD Client ID: CV0731A-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	811	3660	439	153	40	39-130	F
Acenaphthylene	811	4220	504	148	40	38-130	F
Anthracene	811	12100	1440	179	40	37-130	F
Benzo[a]anthracene	811	23900	2837	183	40	40-130	E F
Benzo[a]pyrene	811	20800	2479	184	40	49-130	E F
Benzo[b]fluoranthene	811	29800	3570	186	40	37-130	E F
Benzo[g,h,i]perylene	811	14300	1686	177	40	32-130	F
Benzo[k]fluoranthene	811	8670	1014	172	40	32-130	F
Chrysene	811	21200	2524	186	40	41-130	E F
Dibenz(a,h)anthracene	811	5620	672	155	40	27-130	F
Fluoranthene	811	57400	6848	191	40	40-130	E F
Fluorene	811	7540	907	172	40	40-130	F
Indeno[1,2,3-cd]pyrene	811	13900	1640	175	40	30-130	F
1-Methylnaphthalene	811	3090	364	134	40	31-130	F
2-Methylnaphthalene	811	4130	485	146	40	33-130	F
Naphthalene	811	14700	1758	184	40	36-130	F
Phenanthrene	811	63500	7556	192	40	42-130	E F
Pyrene	811	42300	5005	188	40	44-130	E F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Lab File ID: 1AE06011.D Lab Sample ID: MB 660-137098/1-A

Matrix: Solid Date Extracted: 05/03/2013 09:41

Instrument ID: BSMA5973 Date Analyzed: 05/06/2013 13:22

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137098/2-A	1AE06012.D	05/06/2013 13:37
CV0727A-CS-SP	680-89896-1	1AE06013.D	05/06/2013 13:52
CV0728A-CS-SP	680-89896-2	1AE06014.D	05/06/2013 14:07
CV0728B-CS-SP	680-89896-3	1AE06015.D	05/06/2013 14:22
CV0731A-CS-SP	680-89896-4	1AE06016.D	05/06/2013 14:37
CV0731A-CS-SP MS	680-89896-4 MS	1AE06027.D	05/06/2013 17:26
CV0731A-CS-SP MSD	680-89896-4 MSD	1AE06028.D	05/06/2013 17:42
CV0731B-CS-SP	680-89896-5	1AE06029.D	05/06/2013 17:57
CV0662A-CS-SP	680-89896-6	1AE06030.D	05/06/2013 18:12
CV0670A-CS-SP	680-89896-7	1AE06031.D	05/06/2013 18:27
CV0670B-CS-SP	680-89896-8	1AE06032.D	05/06/2013 18:42
CV0670C-CS-SP	680-89896-9	1AE06033.D	05/06/2013 18:57
CV0670D-CS-SP	680-89896-10	1AE06034.D	05/06/2013 19:12
CV0670E-CS-SP	680-89896-11	1AE06035.D	05/06/2013 19:27
CV0466A-CS-SP	680-89896-12	1AE06036.D	05/06/2013 19:43
CV0466B-CS-SP	680-89896-13	1AE06037.D	05/06/2013 19:58
CV0963A-CS-SP	680-89896-14	1AE06038.D	05/06/2013 20:12
CV0964A-CS-SP	680-89896-15	1AE06039.D	05/06/2013 20:27
CV0964B-CS-SP	680-89896-16	1AE06040.D	05/06/2013 20:43
CV0988A-CS	680-89896-17	1AE06041.D	05/06/2013 20:58
CV0988A-CSD	680-89896-18	1AE06042.D	05/06/2013 21:13
CV0988B-CS	680-89896-19	1AE06043.D	05/06/2013 21:28

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Lab File ID: 1AE08005.D Lab Sample ID: MB 660-137196/1-A

Matrix: Water Date Extracted: 05/07/2013 14:43

Instrument ID: BSMA5973 Date Analyzed: 05/08/2013 15:16

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137196/2-A	1AE08006.D	05/08/2013 15:30
	LCSD 660-137196/3-A	1AE08007.D	05/08/2013 15:45
050113-RB-Bowls&Spoons	680-89896-23	1AE08008.D	05/08/2013 16:00
050113-RB-Bowls&Spoons MS	680-89896-23 MS	1AE08009.D	05/08/2013 16:16

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

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Lab File ID: 1AD26002.D DFTPP Injection Date: 04/26/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 09:50

Analysis Batch No.: 136892

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	31.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	29.9	
70	Less than 2.0 % of mass 69	0.3	(0.9)1
127	10.0 - 80.0 % of mass 198	38.3	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.5	
275	10.0 - 60.0 % of mass 198	25.5	
365	Greater than 1.0 % of mass 198	3.3	
441	Present but less than mass 443	11.6	
442	Greater than 50.0 % of mass 198	84.2	
443	15.0 - 24.0 % of mass 442	15.5	(18.4)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 660-136892/3	1AD26003.D	04/26/2013	10:03
	IC 660-136892/4	1AD26004.D	04/26/2013	10:18
	IC 660-136892/5	1AD26005.D	04/26/2013	10:33
	IC 660-136892/6	1AD26006.D	04/26/2013	10:48
	ICIS 660-136892/7	1AD26007.D	04/26/2013	11:03
	IC 660-136892/8	1AD26008.D	04/26/2013	11:19
	IC 660-136892/9	1AD26009.D	04/26/2013	11:34

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

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Lab File ID: 1AE06002.D DFTPP Injection Date: 05/06/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:11

Analysis Batch No.: 137156

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	37.9	
68	Less than 2.0 % of mass 69	0.3	(0.8)1
69	Mass 69 relative abundance	33.6	
70	Less than 2.0 % of mass 69	0.6	(1.7)1
127	10.0 - 80.0 % of mass 198	46.4	
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	7.3	
275	10.0 - 60.0 % of mass 198	24.9	
365	Greater than 1.0 % of mass 198	2.9	
441	Present but less than mass 443	12.3	
442	Greater than 50.0 % of mass 198	88.6	
443	15.0 - 24.0 % of mass 442	16.3	(18.4)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 660-137156/3	1AE06003.D	05/06/2013	10:24
	IC 660-137156/4	1AE06004.D	05/06/2013	10:40
	IC 660-137156/5	1AE06005.D	05/06/2013	10:56
	IC 660-137156/6	1AE06006.D	05/06/2013	11:11
	IC 660-137156/7	1AE06007.D	05/06/2013	11:26
	IC 660-137156/8	1AE06008.D	05/06/2013	11:41
	IC 660-137156/9	1AE06009.D	05/06/2013	11:56
	ICV 660-137156/10	1AE06010.D	05/06/2013	12:11
	MB 660-137098/1-A	1AE06011.D	05/06/2013	13:22
	LCS 660-137098/2-A	1AE06012.D	05/06/2013	13:37
CV0727A-CS-SP	680-89896-1	1AE06013.D	05/06/2013	13:52
CV0728A-CS-SP	680-89896-2	1AE06014.D	05/06/2013	14:07
CV0728B-CS-SP	680-89896-3	1AE06015.D	05/06/2013	14:22
CV0731A-CS-SP	680-89896-4	1AE06016.D	05/06/2013	14:37
CV0731A-CS-SP MS	680-89896-4 MS	1AE06027.D	05/06/2013	17:26
CV0731A-CS-SP MSD	680-89896-4 MSD	1AE06028.D	05/06/2013	17:42
CV0731B-CS-SP	680-89896-5	1AE06029.D	05/06/2013	17:57
CV0662A-CS-SP	680-89896-6	1AE06030.D	05/06/2013	18:12
CV0670A-CS-SP	680-89896-7	1AE06031.D	05/06/2013	18:27
CV0670B-CS-SP	680-89896-8	1AE06032.D	05/06/2013	18:42
CV0670C-CS-SP	680-89896-9	1AE06033.D	05/06/2013	18:57
CV0670D-CS-SP	680-89896-10	1AE06034.D	05/06/2013	19:12
CV0670E-CS-SP	680-89896-11	1AE06035.D	05/06/2013	19:27

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

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Lab File ID: 1AE06002.D DFTPP Injection Date: 05/06/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:11

Analysis Batch No.: 137156

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	37.9	
68	Less than 2.0 % of mass 69	0.3	(0.8)1
69	Mass 69 relative abundance	33.6	
70	Less than 2.0 % of mass 69	0.6	(1.7)1
127	10.0 - 80.0 % of mass 198	46.4	
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	7.3	
275	10.0 - 60.0 % of mass 198	24.9	
365	Greater than 1.0 % of mass 198	2.9	
441	Present but less than mass 443	12.3	
442	Greater than 50.0 % of mass 198	88.6	
443	15.0 - 24.0 % of mass 442	16.3	(18.4)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
CV0466A-CS-SP	680-89896-12	1AE06036.D	05/06/2013	19:43
CV0466B-CS-SP	680-89896-13	1AE06037.D	05/06/2013	19:58
CV0963A-CS-SP	680-89896-14	1AE06038.D	05/06/2013	20:12
CV0964A-CS-SP	680-89896-15	1AE06039.D	05/06/2013	20:27
CV0964B-CS-SP	680-89896-16	1AE06040.D	05/06/2013	20:43
CV0988A-CS	680-89896-17	1AE06041.D	05/06/2013	20:58
CV0988A-CSD	680-89896-18	1AE06042.D	05/06/2013	21:13
CV0988B-CS	680-89896-19	1AE06043.D	05/06/2013	21:28

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

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Lab File ID: 1AE08002.D DFTPP Injection Date: 05/08/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 14:11

Analysis Batch No.: 137292

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	53.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	44.2	
70	Less than 2.0 % of mass 69	0.5	(1.1)1
127	10.0 - 80.0 % of mass 198	49.5	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	8.4	
275	10.0 - 60.0 % of mass 198	23.4	
365	Greater than 1.0 % of mass 198	2.0	
441	Present but less than mass 443	7.0	
442	Greater than 50.0 % of mass 198	51.3	
443	15.0 - 24.0 % of mass 442	10.8	(21.1)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 660-137292/3	1AE08003.D	05/08/2013	14:31
	MB 660-137196/1-A	1AE08005.D	05/08/2013	15:16
	LCS 660-137196/2-A	1AE08006.D	05/08/2013	15:30
	LCSD 660-137196/3-A	1AE08007.D	05/08/2013	15:45
050113-RB-Bowls&Spoons	680-89896-23	1AE08008.D	05/08/2013	16:00
050113-RB-Bowls&Spoons MS	680-89896-23 MS	1AE08009.D	05/08/2013	16:16

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

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Sample No.: ICIS 660-137156/3 Date Analyzed: 05/06/2013 10:24

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

Lab File ID (Standard): 1AE06003.D Heated Purge: (Y/N) N

Calibration ID: 2919

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1347501	2.54	663107	3.58	1152475	4.52
UPPER LIMIT		2695002	3.04	1326214	4.08	2304950	5.02
LOWER LIMIT		673751	2.04	331554	3.08	576238	4.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137156/10		1358957	2.55	723354	3.58	1301827	4.52
MB 660-137098/1-A		1538780	2.54	786944	3.57	1282446	4.52
LCS 660-137098/2-A		1401742	2.54	753641	3.57	1235718	4.52
680-89896-1	CV0727A-CS-SP	1458861	2.54	748594	3.57	1210677	4.52
680-89896-2	CV0728A-CS-SP	1484936	2.54	782927	3.57	1174879	4.52
680-89896-3	CV0728B-CS-SP	1387889	2.55	718312	3.57	1143168	4.52
680-89896-4	CV0731A-CS-SP	1389028	2.55	708578	3.57	1138418	4.53
680-89896-4 MS	CV0731A-CS-SP MS	1328370	2.55	699927	3.58	1109417	4.53
680-89896-4 MSD	CV0731A-CS-SP MSD	1391858	2.55	702284	3.58	1075784	4.53
680-89896-5	CV0731B-CS-SP	1403505	2.55	727815	3.57	1093529	4.53
680-89896-6	CV0662A-CS-SP	1423642	2.55	727767	3.58	1106824	4.53
680-89896-7	CV0670A-CS-SP	1390697	2.55	732736	3.58	1106116	4.53
680-89896-8	CV0670B-CS-SP	1339847	2.55	686057	3.58	969248	4.53
680-89896-9	CV0670C-CS-SP	1408546	2.55	741940	3.58	1100223	4.53
680-89896-10	CV0670D-CS-SP	1406782	2.55	719557	3.58	1058772	4.53
680-89896-11	CV0670E-CS-SP	1409529	2.55	719711	3.58	1098858	4.53
680-89896-12	CV0466A-CS-SP	1368075	2.55	716606	3.58	1014887	4.53
680-89896-13	CV0466B-CS-SP	1422394	2.55	735183	3.58	1115949	4.53
680-89896-14	CV0963A-CS-SP	1412902	2.55	719898	3.58	1035828	4.53
680-89896-15	CV0964A-CS-SP	1448832	2.55	751270	3.58	1193682	4.53
680-89896-16	CV0964B-CS-SP	1408932	2.55	733989	3.58	1048973	4.53
680-89896-17	CV0988A-CS	1497902	2.55	777636	3.58	1146395	4.53
680-89896-18	CV0988A-CSD	1425504	2.55	747857	3.58	1096198	4.54
680-89896-19	CV0988B-CS	1467991	2.55	764047	3.58	1209451	4.53

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.: 680-89896-1

SDG No.: 68089896-1

Sample No.: ICIS 660-137156/3 Date Analyzed: 05/06/2013 10:24

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

Lab File ID (Standard): 1AE06003.D Heated Purge: (Y/N) N

Calibration ID: 2919

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1092561	6.53	1003019	7.63		
UPPER LIMIT		2185122	7.03	2006038	8.13		
LOWER LIMIT		546281	6.03	501510	7.13		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137156/10		1182962	6.54	1130799	7.62		
MB 660-137098/1-A		1227870	6.54	1164843	7.64		
LCS 660-137098/2-A		1176598	6.53	1076647	7.62		
680-89896-1	CV0727A-CS-SP	869139	6.53	828036	7.62		
680-89896-2	CV0728A-CS-SP	839604	6.53	843981	7.62		
680-89896-3	CV0728B-CS-SP	821080	6.54	966514	7.63		
680-89896-4	CV0731A-CS-SP	839866	6.54	1098635	7.63		
680-89896-4 MS	CV0731A-CS-SP MS	903287	6.55	1116882	7.64		
680-89896-4 MSD	CV0731A-CS-SP MSD	1026506	6.56	1339583	7.66		
680-89896-5	CV0731B-CS-SP	889690	6.54	1178078	7.64		
680-89896-6	CV0662A-CS-SP	937704	6.55	1166367	7.64		
680-89896-7	CV0670A-CS-SP	965811	6.55	1246998	7.65		
680-89896-8	CV0670B-CS-SP	1000776	6.56	1262722	7.65		
680-89896-9	CV0670C-CS-SP	1042218	6.56	1256924	7.65		
680-89896-10	CV0670D-CS-SP	1005505	6.56	1196143	7.65		
680-89896-11	CV0670E-CS-SP	1059276	6.56	1248679	7.65		
680-89896-12	CV0466A-CS-SP	1076557	6.56	1204786	7.65		
680-89896-13	CV0466B-CS-SP	1049659	6.56	1150838	7.65		
680-89896-14	CV0963A-CS-SP	1075327	6.56	1204179	7.65		
680-89896-15	CV0964A-CS-SP	1139349	6.56	1231811	7.65		
680-89896-16	CV0964B-CS-SP	1165498	6.56	1298293	7.66		
680-89896-17	CV0988A-CS	1033505	6.56	1146181	7.65		
680-89896-18	CV0988A-CSD	1093371	6.56	1171719	7.66		
680-89896-19	CV0988B-CS	1158003	6.56	1231839	7.66		

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.: 680-89896-1

SDG No.: 68089896-1

Sample No.: CCVIS 660-137292/3 Date Analyzed: 05/08/2013 14:31

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

Lab File ID (Standard): 1AE08003.D Heated Purge: (Y/N) N

Calibration ID: 2952

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1248061	2.54	640327	3.57	1071156	4.52
UPPER LIMIT		2496122	3.04	1280654	4.07	2142312	5.02
LOWER LIMIT		624031	2.04	320164	3.07	535578	4.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137196/1-A		1148821	2.54	603433	3.57	1025441	4.52
LCS 660-137196/2-A		1082594	2.54	568324	3.57	997509	4.52
LCSD 660-137196/3-A		1063226	2.54	576000	3.57	987812	4.52
680-89896-23	050113-RB-Bowls&Spoons	1110122	2.54	603882	3.57	1028130	4.52
680-89896-23 MS	050113-RB-Bowls&Spoons MS	1018696	2.54	557210	3.57	940863	4.52

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.: 680-89896-1

SDG No.: 68089896-1

Sample No.: CCVIS 660-137292/3 Date Analyzed: 05/08/2013 14:31

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

Lab File ID (Standard): 1AE08003.D Heated Purge: (Y/N) N

Calibration ID: 2952

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		928886	6.54	792941	7.63		
UPPER LIMIT		1857772	7.04	1585882	8.13		
LOWER LIMIT		464443	6.04	396471	7.13		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137196/1-A		931187	6.53	825458	7.63		
LCS 660-137196/2-A		884067	6.53	767587	7.62		
LCSD 660-137196/3-A		864491	6.54	726871	7.61		
680-89896-23	050113-RB-Bowls&Spoons	912263	6.53	778157	7.62		
680-89896-23 MS	050113-RB-Bowls&Spoons MS	821044	6.54	728041	7.61		

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.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0727A-CS-SP | Lab Sample ID: 680-89896-1

Matrix: Solid | Lab File ID: 1AE06013.D

Analysis Method: 8270C LL | Date Collected: 04/29/2013 14:24

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 15.03(g) | Date Analyzed: 05/06/2013 13:52

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

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

% Moisture: 23.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	25	J	52	6.5
120-12-7	Anthracene	25		11	5.4
56-55-3	Benzo[a]anthracene	91		10	5.1
50-32-8	Benzo[a]pyrene	89		13	6.7
205-99-2	Benzo[b]fluoranthene	130		16	7.9
191-24-2	Benzo[g,h,i]perylene	86		26	5.7
207-08-9	Benzo[k]fluoranthene	62		10	4.7
218-01-9	Chrysene	110		12	5.8
53-70-3	Dibenz(a,h)anthracene	19	J	26	5.3
206-44-0	Fluoranthene	110		26	5.2
86-73-7	Fluorene	8.0	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	76		26	9.2
90-12-0	1-Methylnaphthalene	54		52	5.7
91-57-6	2-Methylnaphthalene	74		52	9.2
91-20-3	Naphthalene	64		52	5.7
85-01-8	Phenanthrene	88		10	5.1
129-00-0	Pyrene	120		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	53		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06013.D
Lab Smp Id: 680-89896-A-1-A Client Smp ID: CV0727A-CS-SP
Inj Date : 06-MAY-2013 13:52
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-1-a
Misc Info : 680-89896-A-1-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	23.029	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.543	2.544	(1.000)	1458861	40.0000	
* 6 Acenaphthene-d10	164	3.569	3.575	(1.000)	748594	40.0000	
* 10 Phenanthrene-d10	188	4.519	4.521	(1.000)	1210677	40.0000	
$ 14 o-Terphenyl	230	4.813	4.820	(1.065)	91795	5.29767	457.9300
* 18 Chrysene-d12	240	6.533	6.535	(1.000)	869139	40.0000	
* 23 Perylene-d12	264	7.618	7.630	(1.000)	828036	40.0000	
2 Naphthalene	128	2.554	2.555	(1.004)	25315	0.73687	63.6946
3 2-Methylnaphthalene	141	2.960	2.961	(1.164)	15008	0.85958	74.3020
4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	12995	0.62096	53.6754
5 Acenaphthylene	152	3.483	3.484	(0.976)	10278	0.29219	25.2569
9 Fluorene	166	3.900	3.901	(1.093)	2126	0.09235	7.9827
11 Phenanthrene	178	4.530	4.537	(1.002)	30410	1.01388	87.6400
12 Anthracene	178	4.568	4.569	(1.011)	9261	0.28986	25.0553
13 Carbazole	167	4.701	4.702	(1.040)	4688	0.16319	14.1063

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.390	5.397	(1.193)	45290	1.31257	113.4580
16 Pyrene	202	5.556	5.562	(0.850)	38297	1.37081	118.4928
17 Benzo(a)anthracene	228	6.523	6.524	(0.998)	25576	1.04706	90.5075
19 Chrysene	228	6.544	6.551	(1.002)	33633	1.22376	105.7813
20 Benzo(b)fluoranthene	252	7.340	7.347	(0.964)	31974	1.46091	126.2807(M)
21 Benzo(k)fluoranthene	252	7.351	7.368	(0.965)	19374	0.71354	61.6783(M)
22 Benzo(a)pyrene	252	7.564	7.576	(0.993)	23092	1.02735	88.8041
24 Indeno(1,2,3-cd)pyrene	276	8.366	8.388	(1.098)	16644	0.88390	76.4042(M)
25 Dibenzo(a,h)anthracene	278	8.393	8.414	(1.102)	4187	0.21692	18.7505
26 Benzo(g,h,i)perylene	276	8.579	8.602	(1.126)	20110	0.99314	85.8467(M)

QC Flag Legend

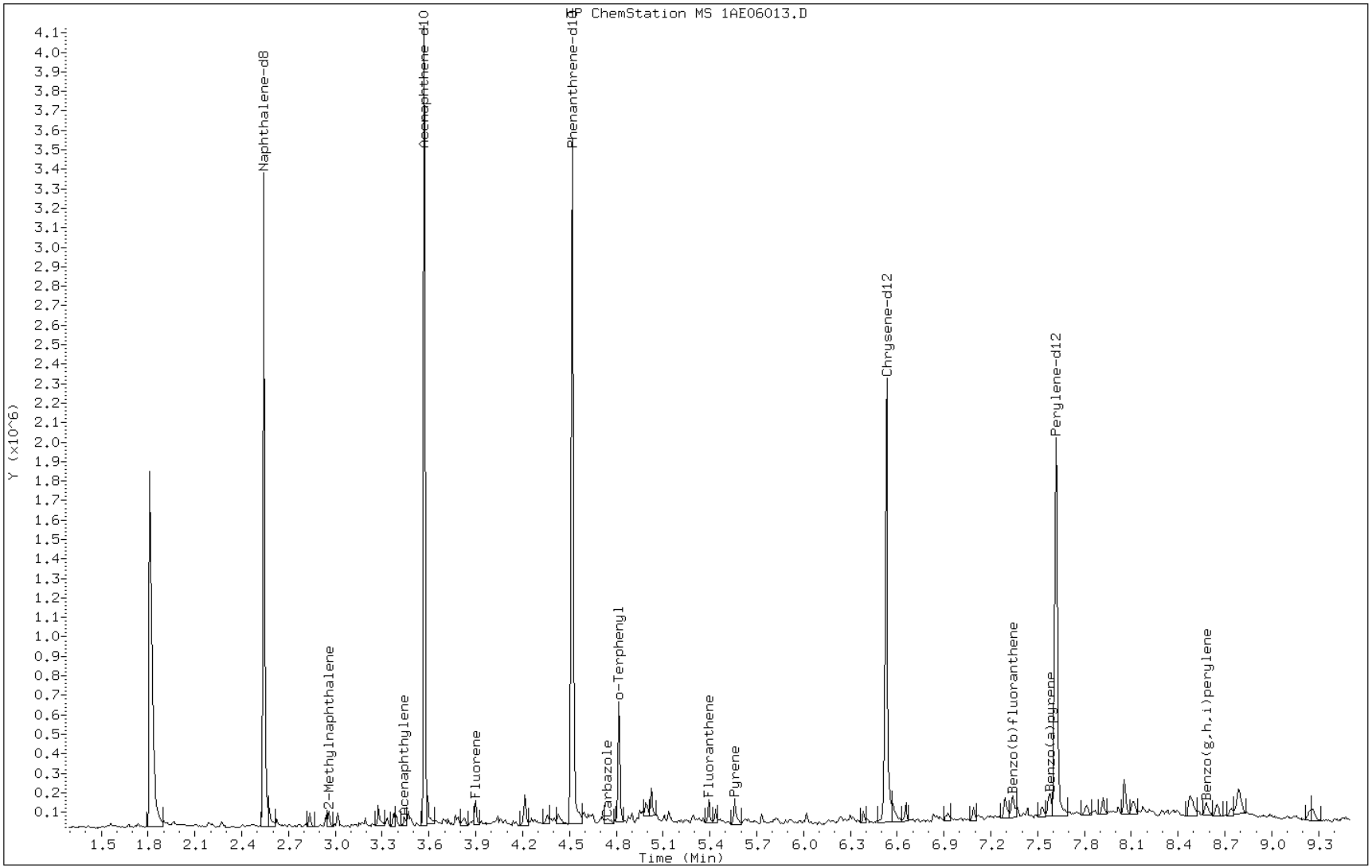
M - Compound response manually integrated.

Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC



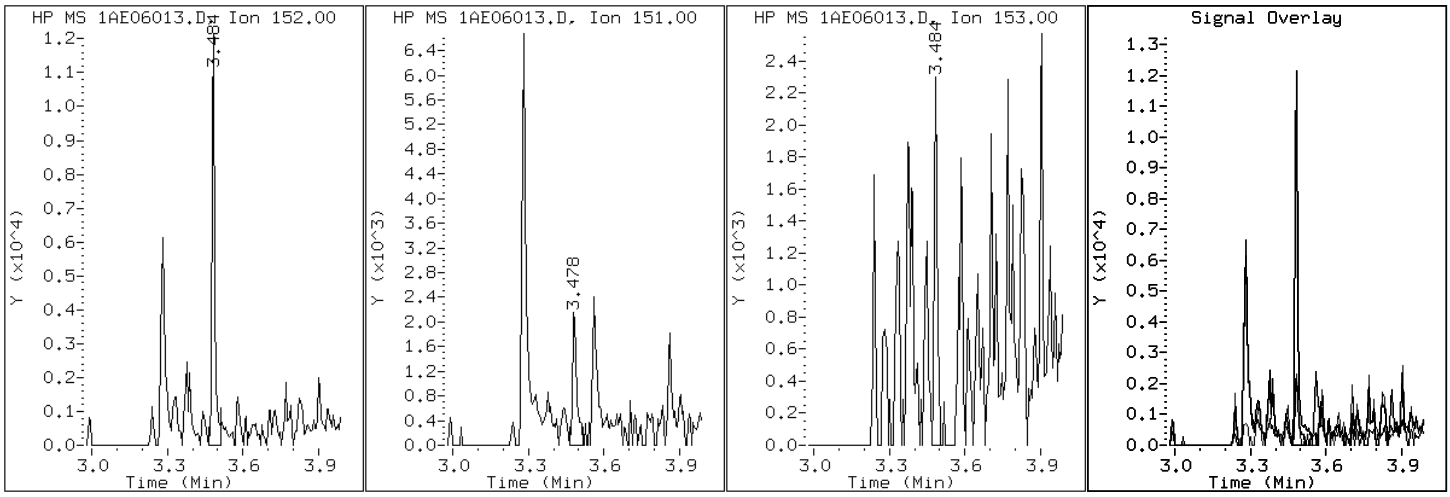
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

5 Acenaphthylene



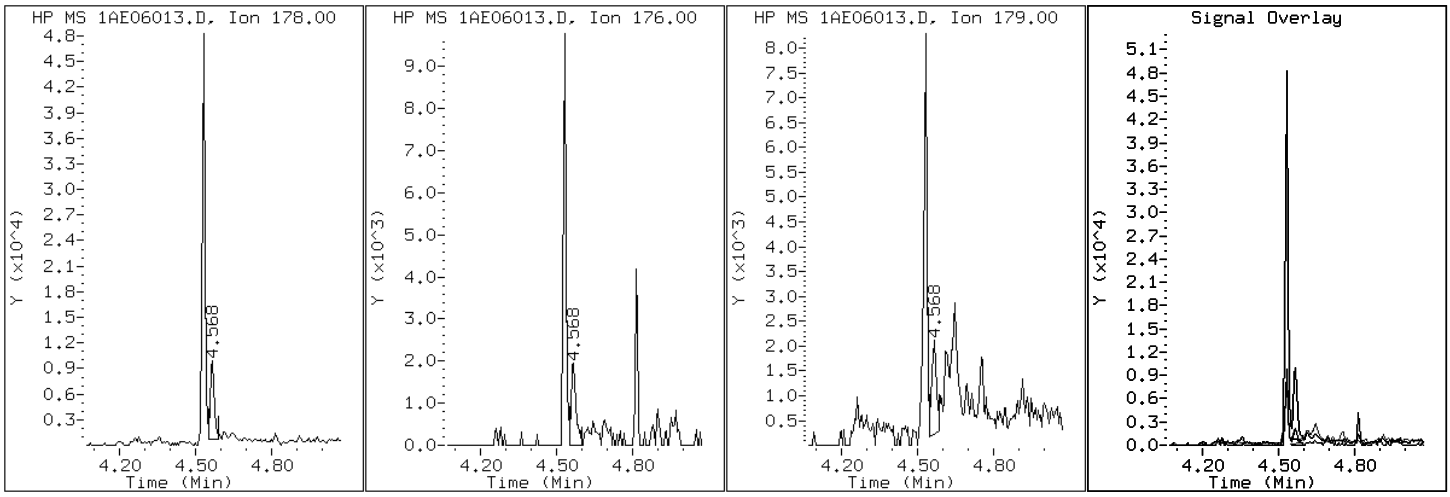
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

12 Anthracene



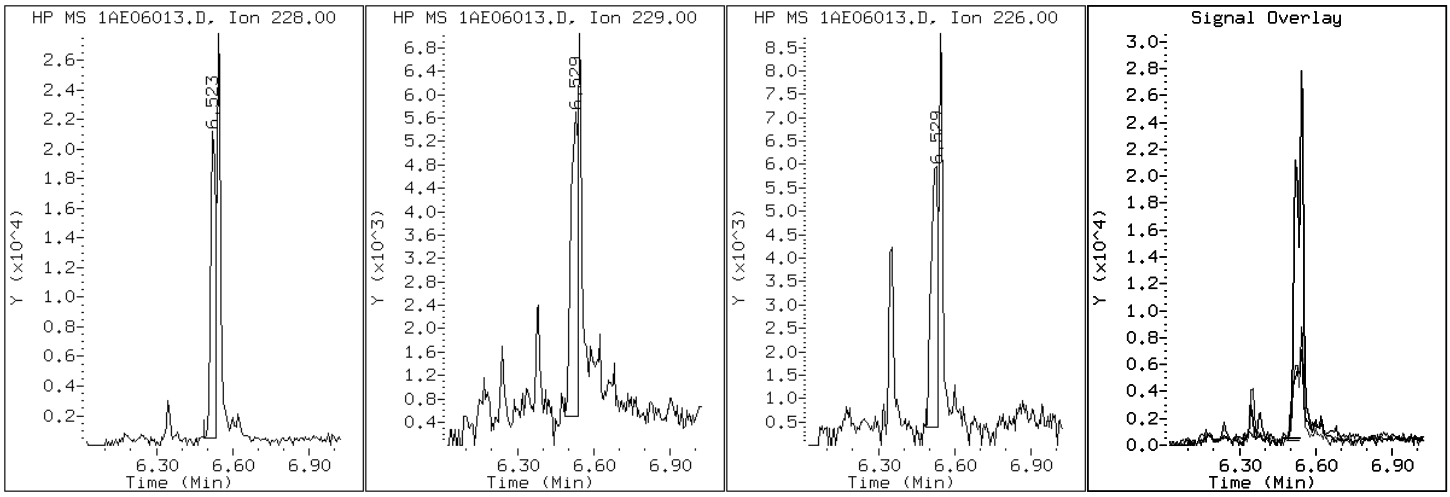
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

17 Benzo(a)anthracene



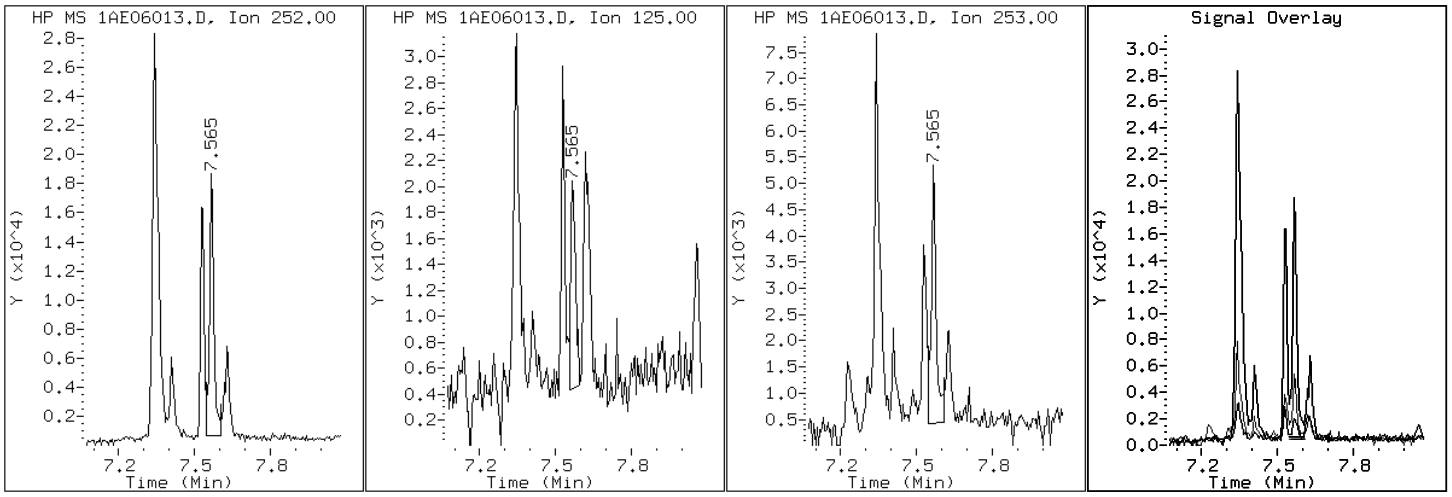
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

22 Benzo(a)pyrene



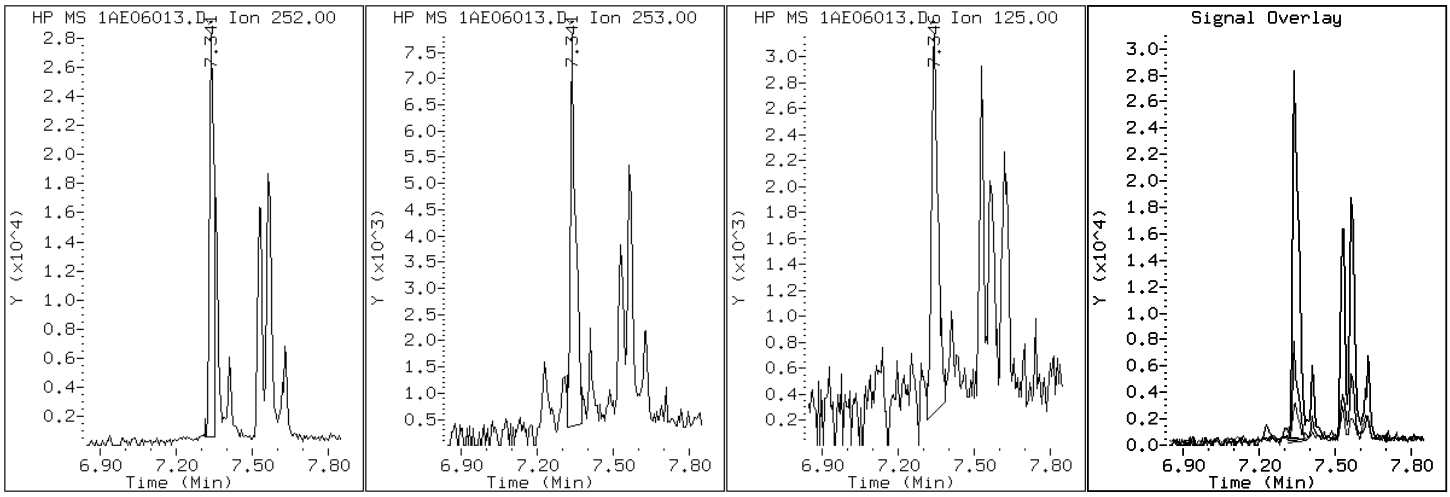
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

20 Benzo(b)fluoranthene



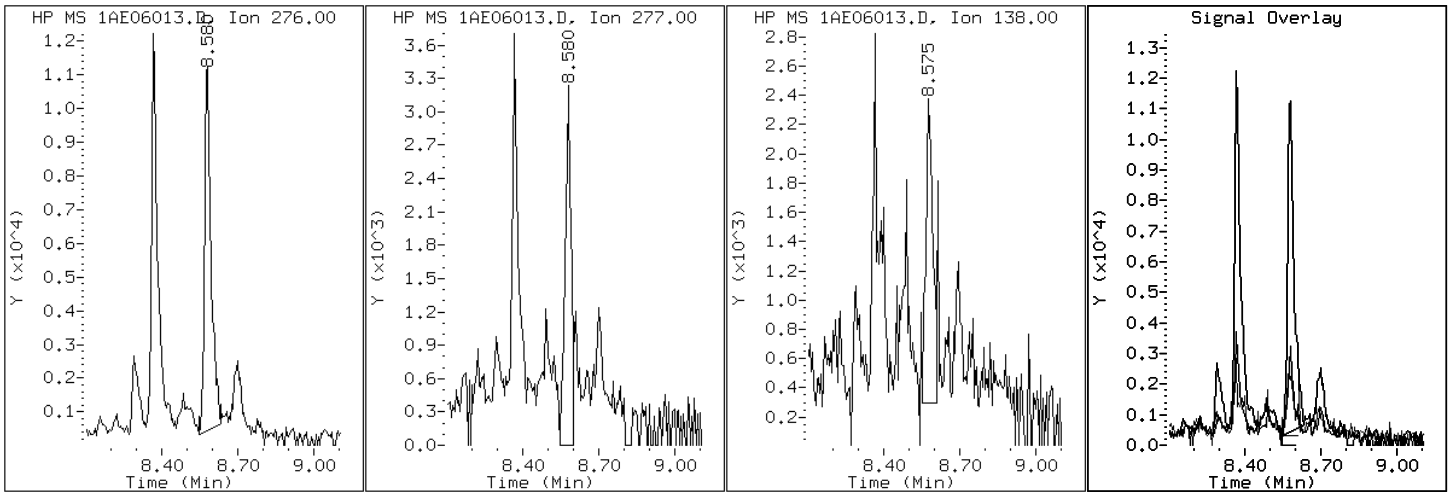
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

26 Benzo(g,h,i)perylene



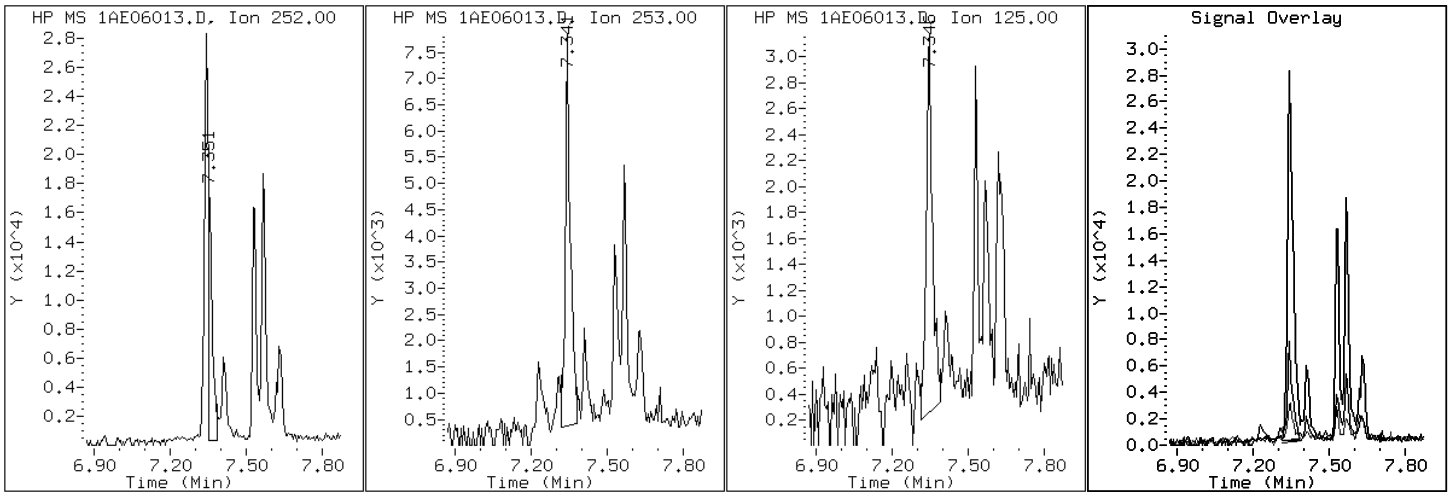
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

21 Benzo(k)fluoranthene



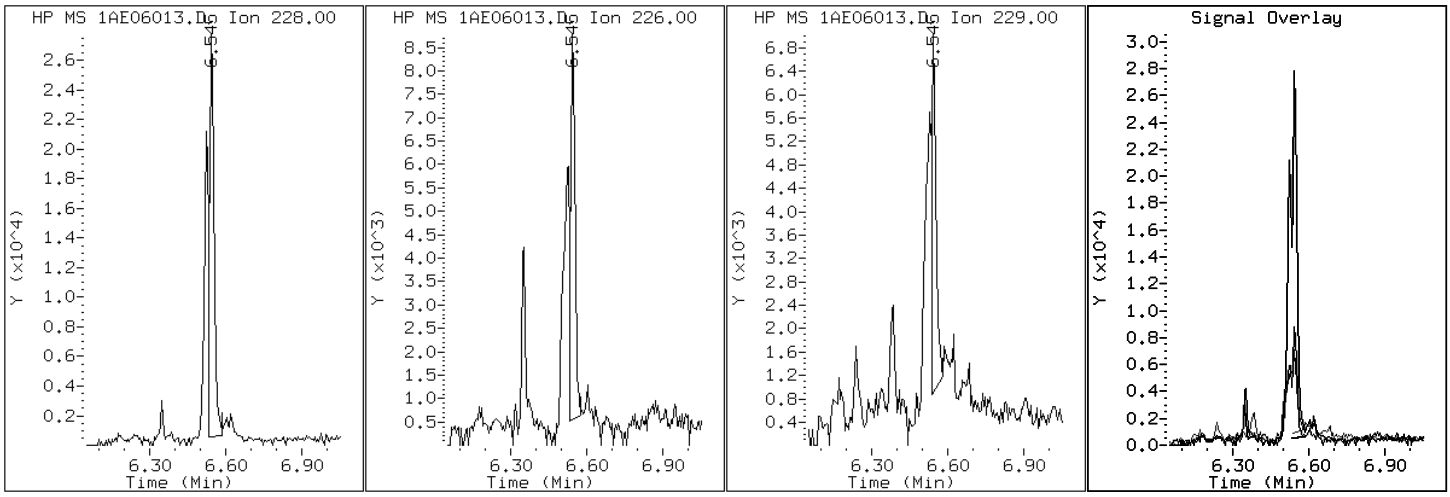
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

19 Chrysene



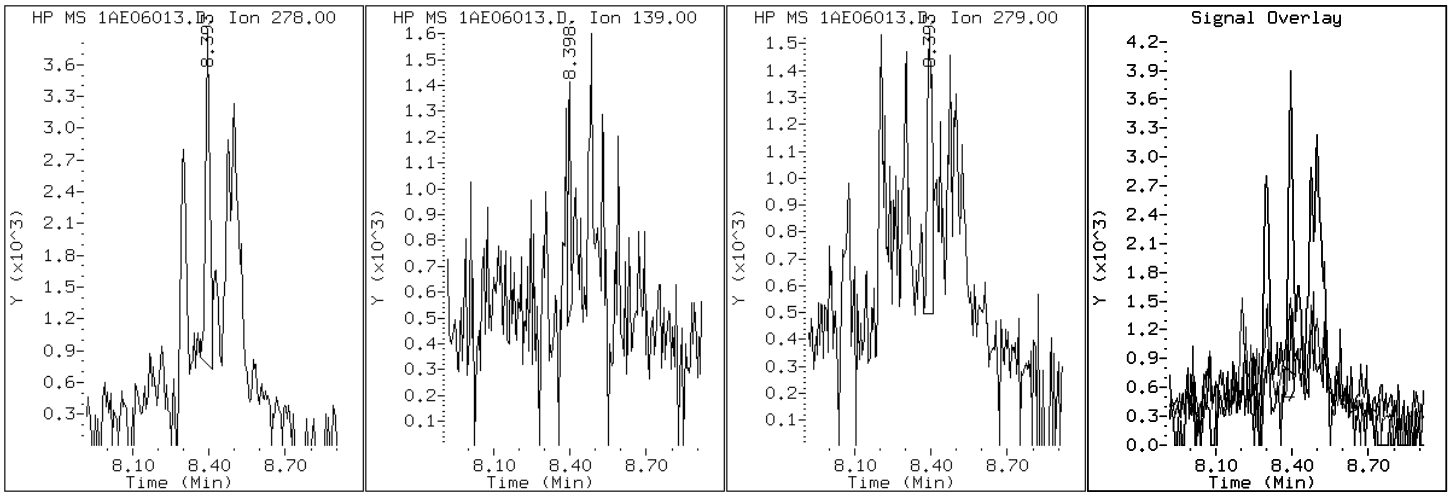
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

25 Dibenzo(a,h)anthracene



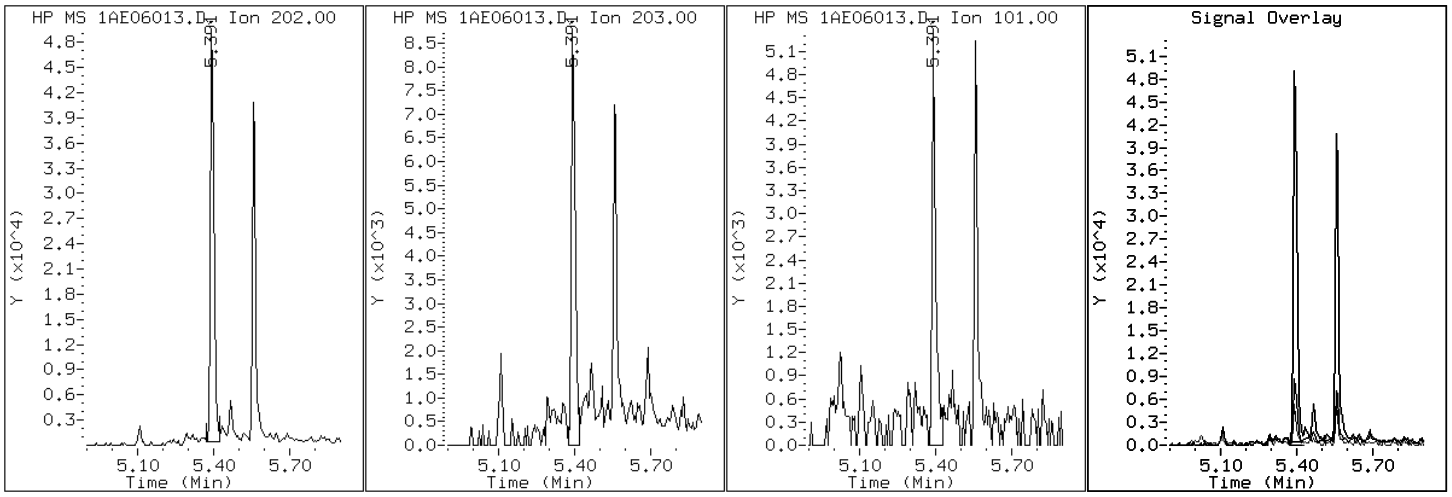
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

15 Fluoranthene



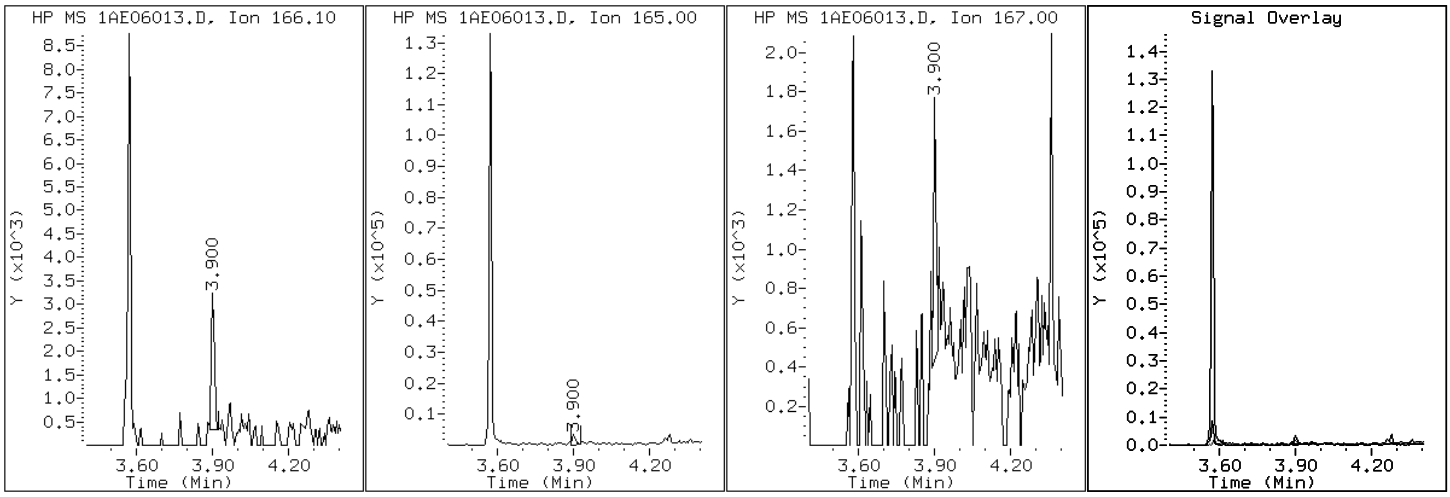
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

9 Fluorene



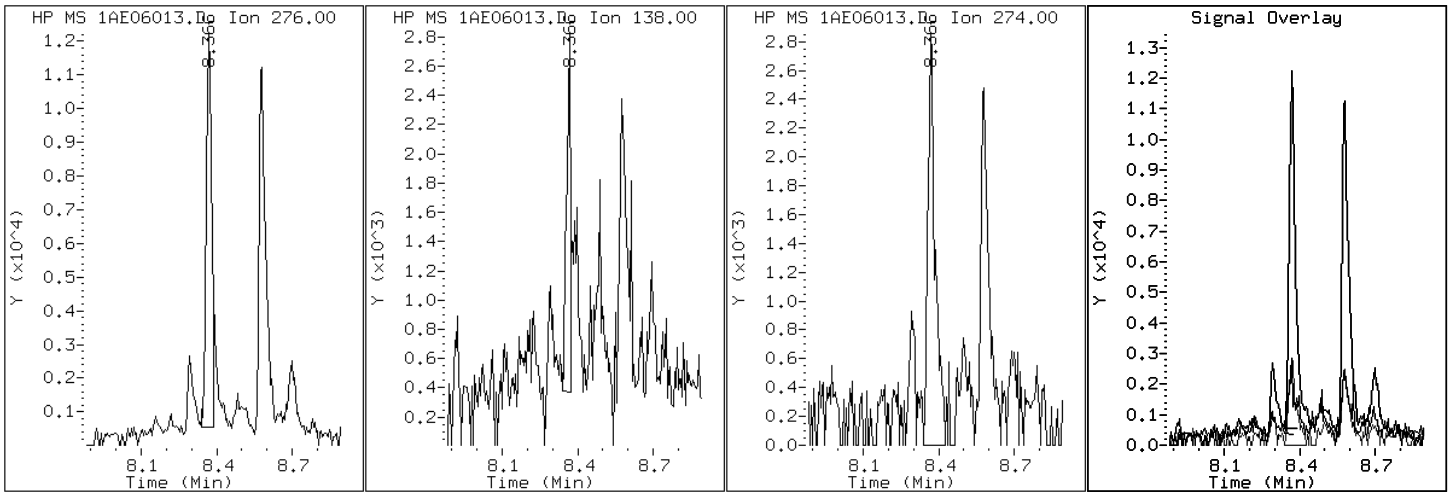
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

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



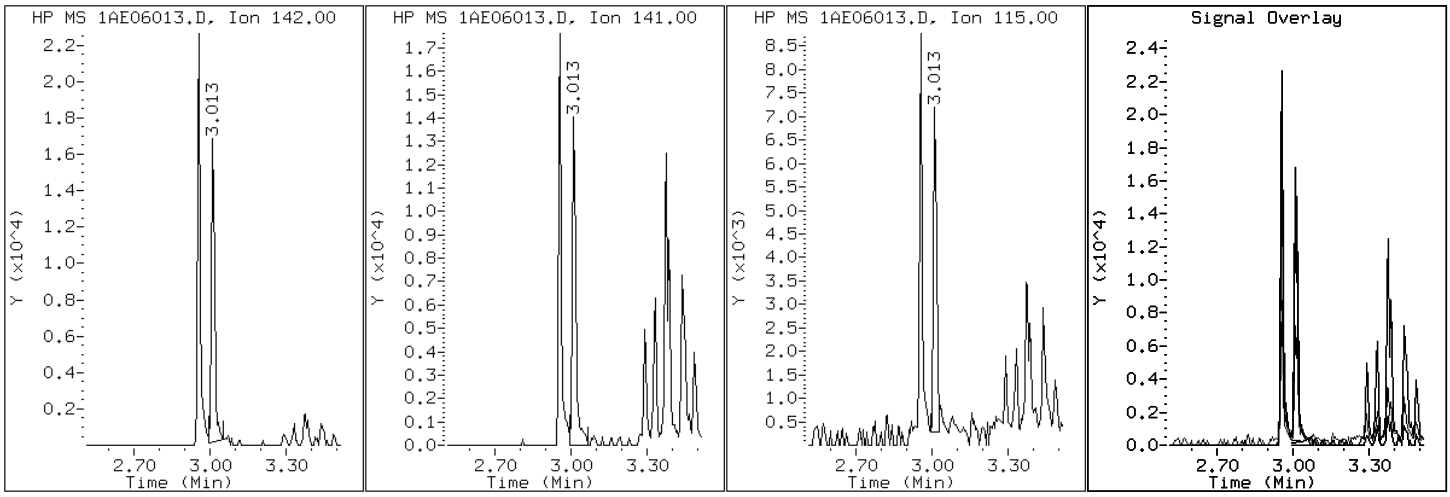
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

4 1-Methylnaphthalene



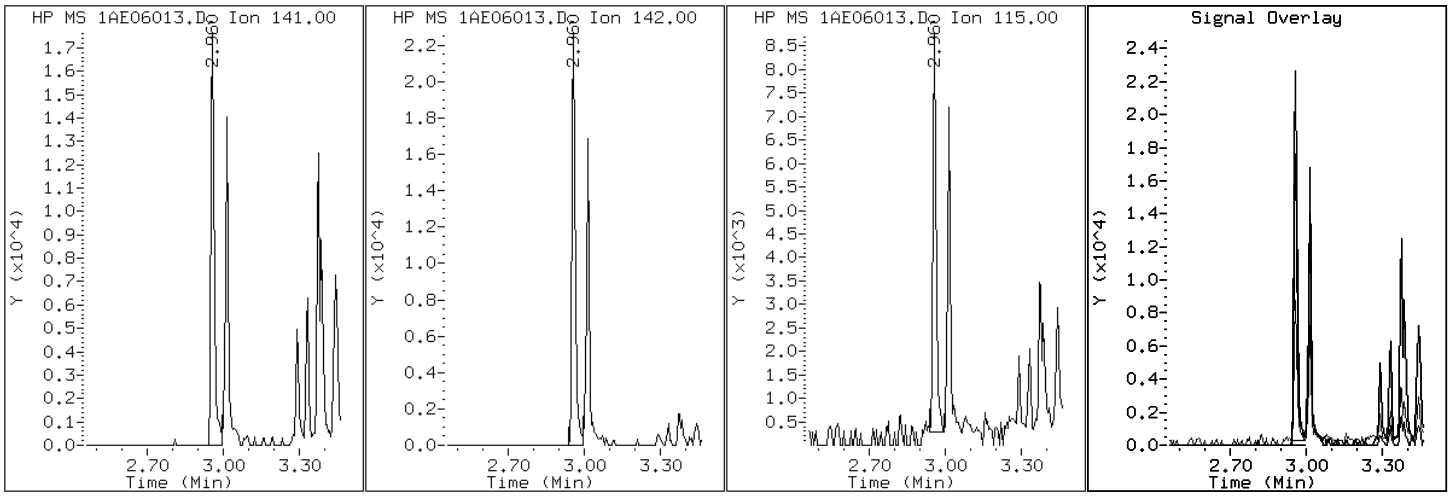
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

3 2-Methylnaphthalene



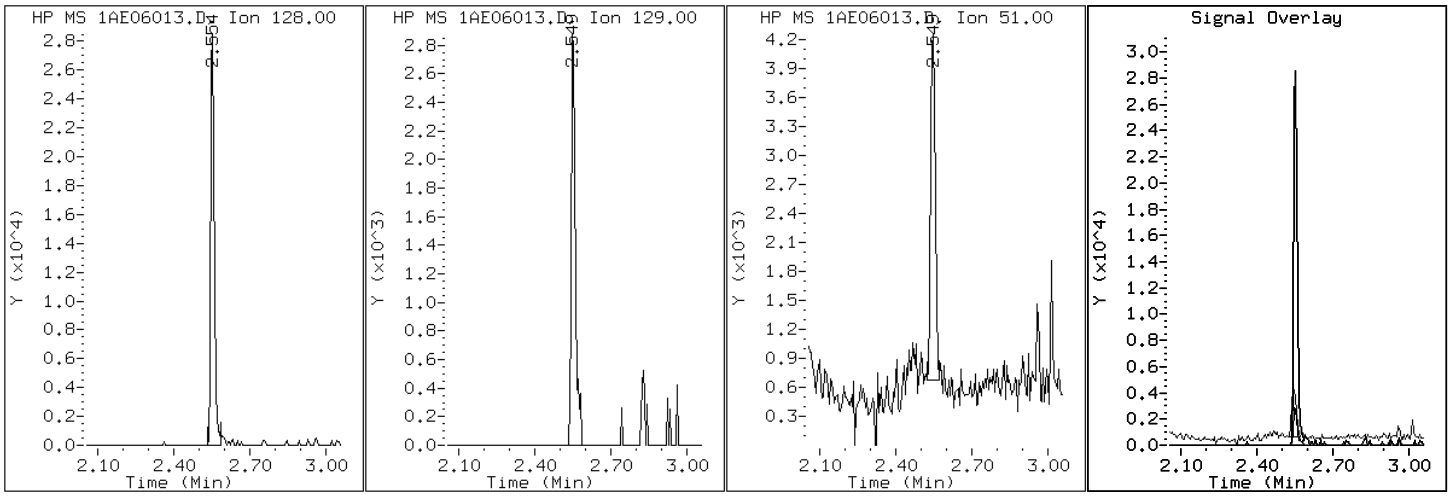
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

2 Naphthalene



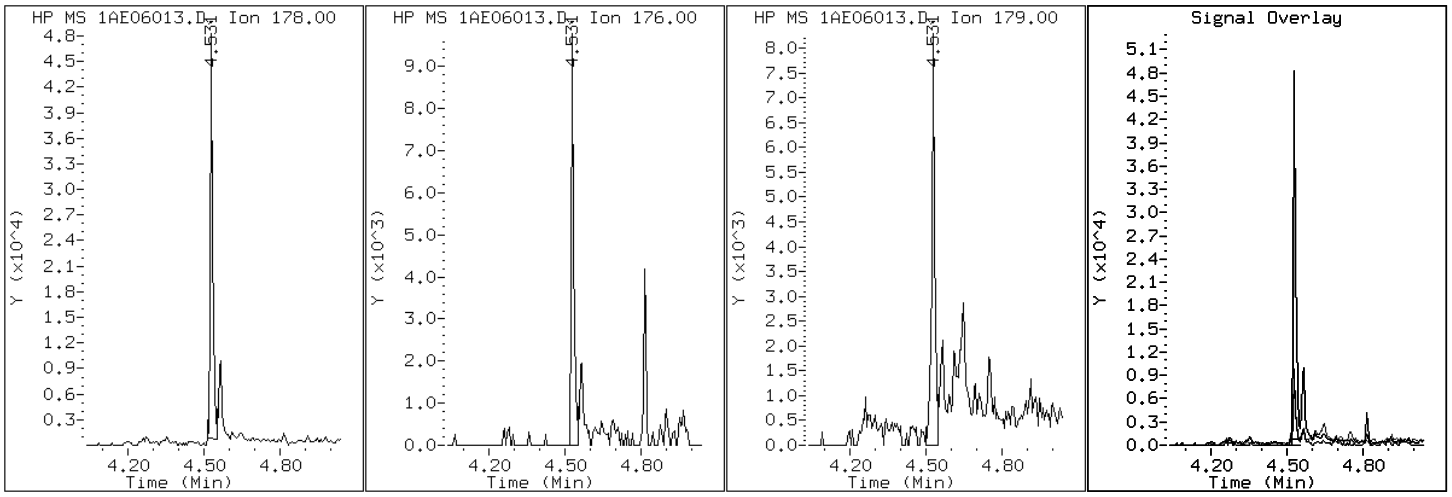
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

11 Phenanthrene



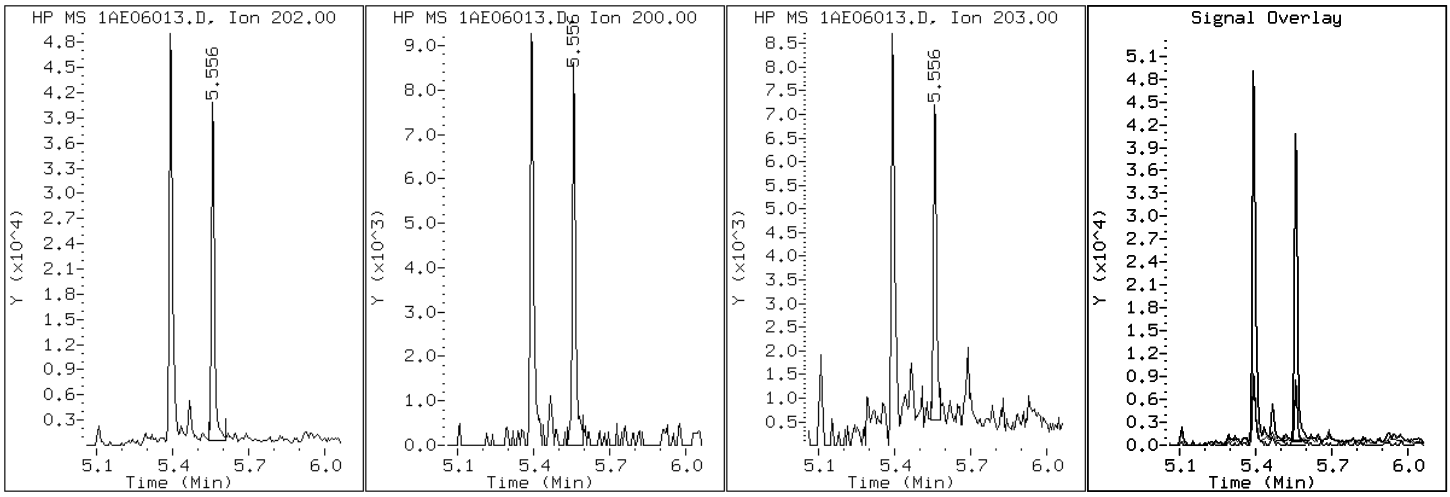
Data File: 1AE06013.D

Date: 06-MAY-2013 13:52

Client ID: CV0727A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-1-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06013.D
Inj. Date and Time: 06-MAY-2013 13:52
Instrument ID: BSMA5973.i
Client ID: CV0727A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

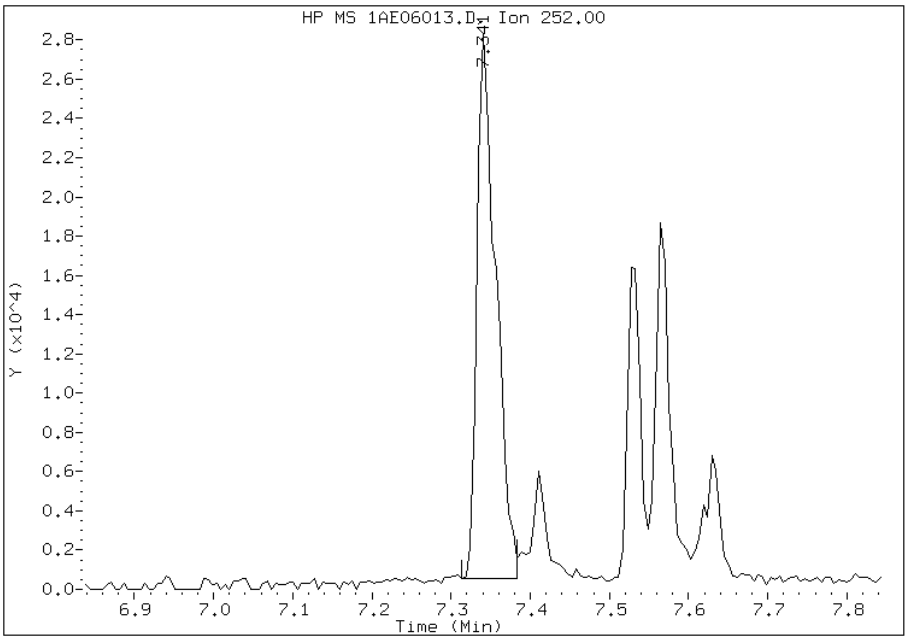
Processing Integration Results

RT: 7.34

Response: 45278

Amount: 2

Conc: 179



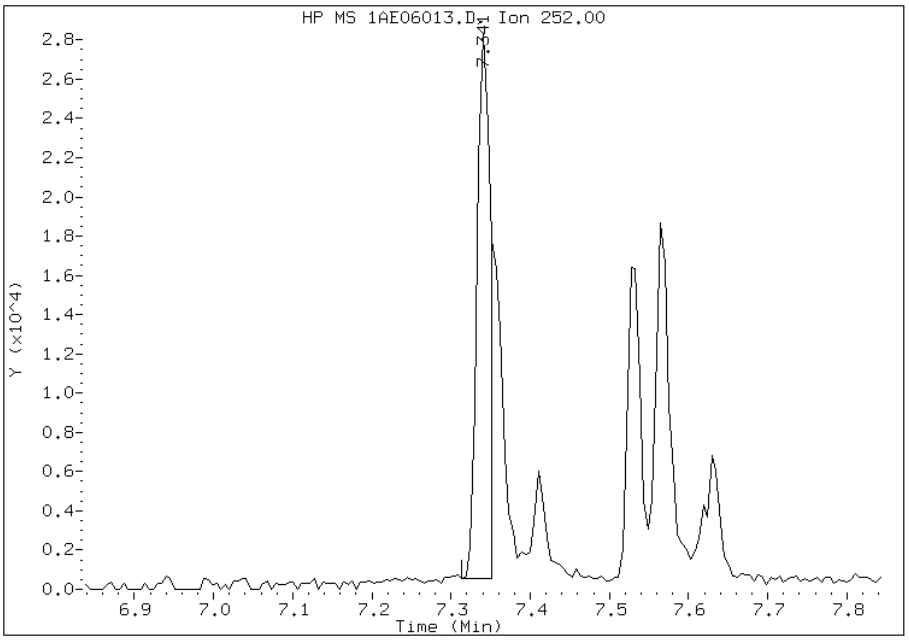
Manual Integration Results

RT: 7.34

Response: 31974

Amount: 1

Conc: 126



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06013.D
Inj. Date and Time: 06-MAY-2013 13:52
Instrument ID: BSMA5973.i
Client ID: CV0727A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

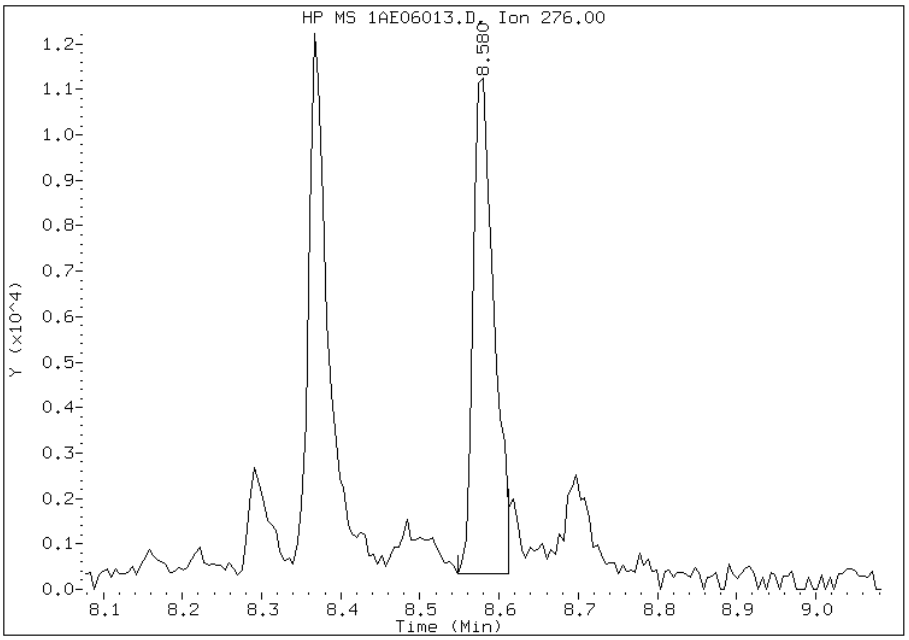
Processing Integration Results

RT: 8.58

Response: 19759

Amount: 1

Conc: 84



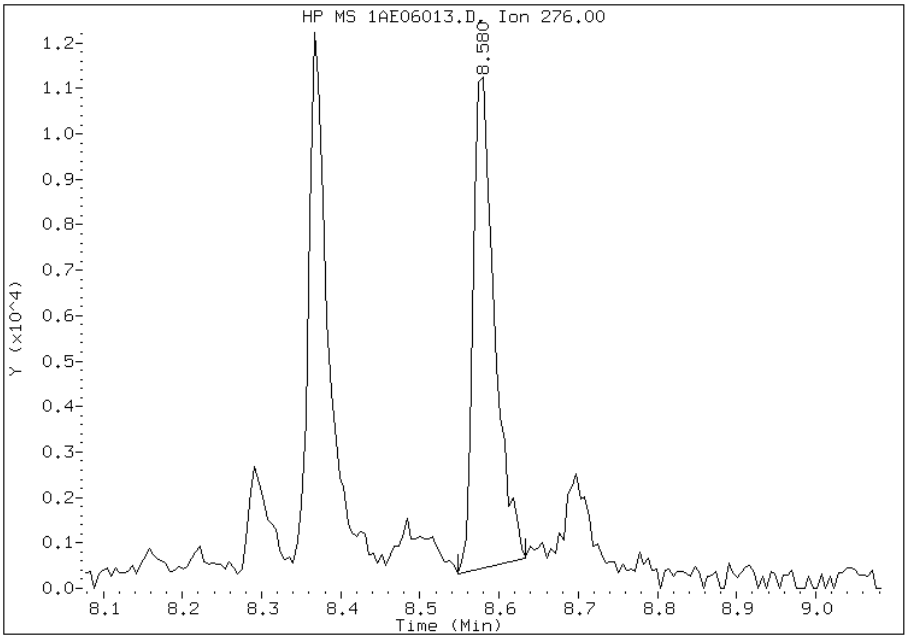
Manual Integration Results

RT: 8.58

Response: 20110

Amount: 1

Conc: 86



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06013.D
Inj. Date and Time: 06-MAY-2013 13:52
Instrument ID: BSMA5973.i
Client ID: CV0727A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

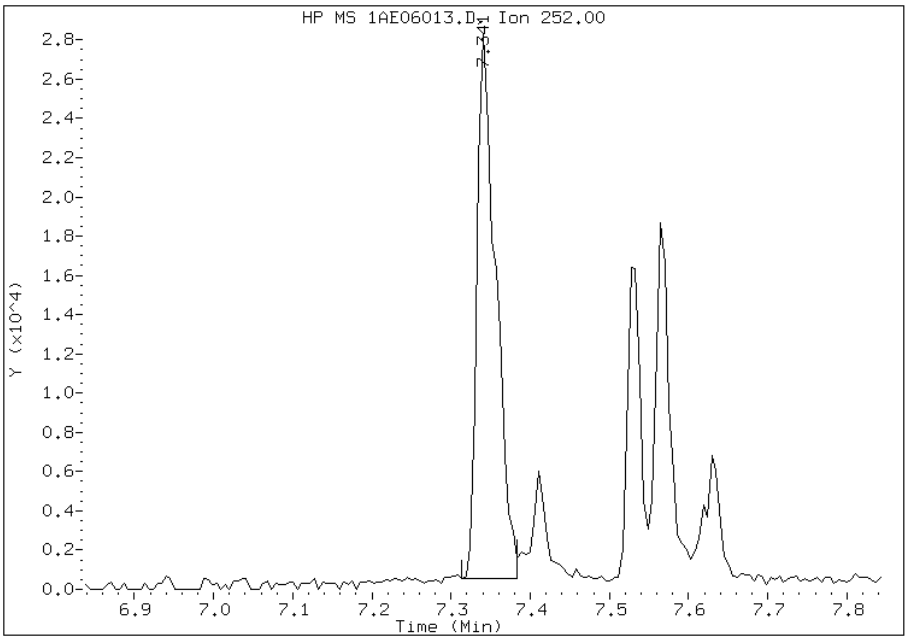
Processing Integration Results

RT: 7.34

Response: 45278

Amount: 2

Conc: 144



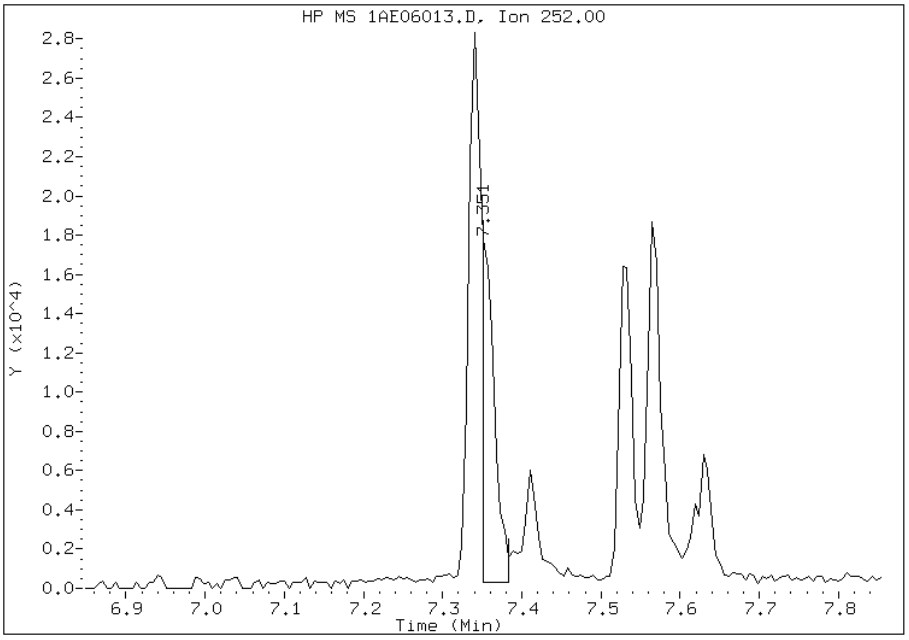
Manual Integration Results

RT: 7.35

Response: 19374

Amount: 1

Conc: 62



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06013.D
Inj. Date and Time: 06-MAY-2013 13:52
Instrument ID: BSMA5973.i
Client ID: CV0727A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

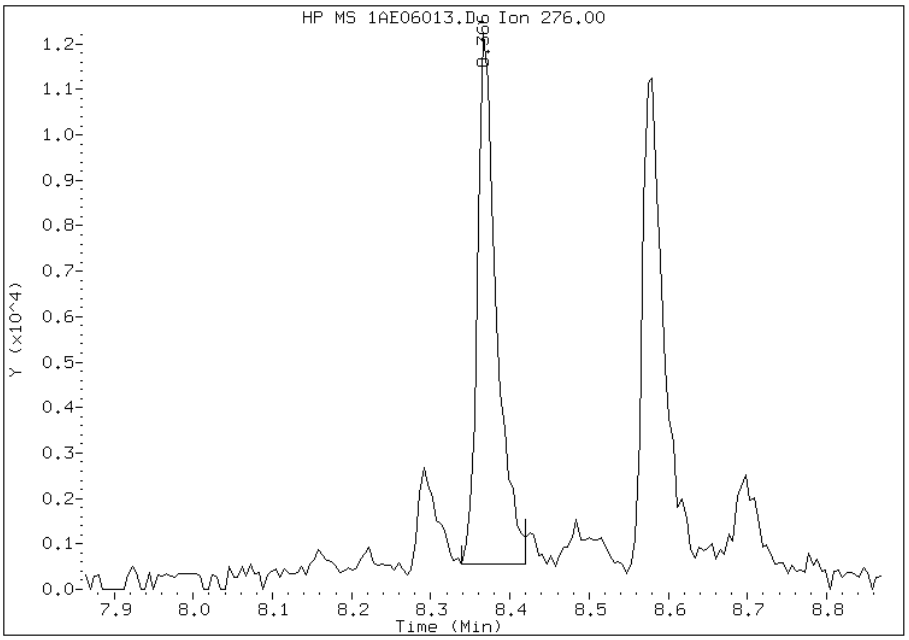
Processing Integration Results

RT: 8.37

Response: 19415

Amount: 1

Conc: 89



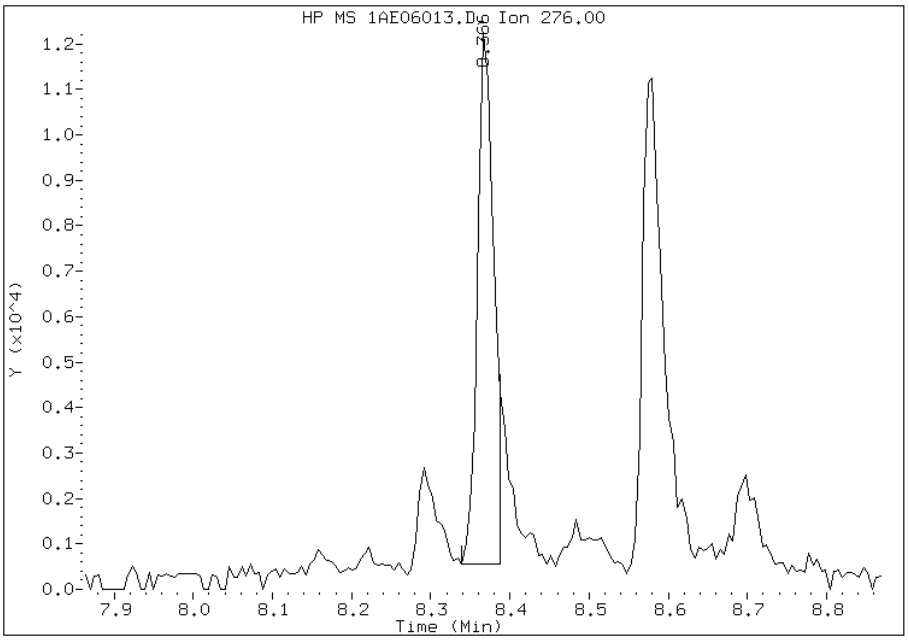
Manual Integration Results

RT: 8.37

Response: 16644

Amount: 1

Conc: 76



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0728A-CS-SP | Lab Sample ID: 680-89896-2

Matrix: Solid | Lab File ID: 1AE06014.D

Analysis Method: 8270C LL | Date Collected: 04/29/2013 13:51

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 14.99(g) | Date Analyzed: 05/06/2013 14:07

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

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

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

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	8.7	J	52	6.4
120-12-7	Anthracene	16		11	5.4
56-55-3	Benzo[a]anthracene	57		10	5.0
50-32-8	Benzo[a]pyrene	52		13	6.7
205-99-2	Benzo[b]fluoranthene	84		16	7.9
191-24-2	Benzo[g,h,i]perylene	55		26	5.7
207-08-9	Benzo[k]fluoranthene	31		10	4.6
218-01-9	Chrysene	83		12	5.8
53-70-3	Dibenz(a,h)anthracene	13	J	26	5.3
206-44-0	Fluoranthene	77		26	5.2
86-73-7	Fluorene	6.9	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	44		26	9.1
90-12-0	1-Methylnaphthalene	53		52	5.7
91-57-6	2-Methylnaphthalene	71		52	9.1
91-20-3	Naphthalene	60		52	5.7
85-01-8	Phenanthrene	85		10	5.0
129-00-0	Pyrene	87		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06014.D
Lab Smp Id: 680-89896-A-2-A Client Smp ID: CV0728A-CS-SP
Inj Date : 06-MAY-2013 14:07
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-2-a
Misc Info : 680-89896-A-2-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	22.297	% 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)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.543	2.544	(1.000)	1484936	40.0000	
*	6 Acenaphthene-d10	164	3.574	3.575	(1.000)	782927	40.0000	
*	10 Phenanthrene-d10	188	4.519	4.521	(1.000)	1174879	40.0000	
$	14 o-Terphenyl	230	4.818	4.820	(1.066)	102788	6.11285	524.8143
*	18 Chrysene-d12	240	6.533	6.535	(1.000)	839604	40.0000	
*	23 Perylene-d12	264	7.623	7.630	(1.000)	843981	40.0000	
	2 Naphthalene	128	2.553	2.555	(1.004)	24605	0.70362	60.4091
	3 2-Methylnaphthalene	141	2.959	2.961	(1.164)	14762	0.83064	71.3143
	4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	13241	0.62160	53.3672
	5 Acenaphthylene	152	3.483	3.484	(0.975)	3720	0.10112	8.6813
	9 Fluorene	166	3.900	3.901	(1.091)	1934	0.08033	6.8963
	11 Phenanthrene	178	4.530	4.537	(1.002)	28944	0.99441	85.3745
	12 Anthracene	178	4.562	4.569	(1.009)	5617	0.18116	15.5535
	13 Carbazole	167	4.701	4.702	(1.040)	3043	0.10916	9.3715

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.395	5.397	(1.194)	30102	0.89898	77.1811
16 Pyrene	202	5.561	5.562	(0.851)	27447	1.01700	87.3142
17 Benzo(a)anthracene	228	6.528	6.524	(0.999)	15788	0.66908	57.4436
19 Chrysene	228	6.549	6.551	(1.002)	25553	0.96247	82.6319
20 Benzo(b)fluoranthene	252	7.340	7.347	(0.963)	21904	0.98190	84.3001(M)
21 Benzo(k)fluoranthene	252	7.356	7.368	(0.965)	9877	0.35690	30.6410(M)
22 Benzo(a)pyrene	252	7.570	7.576	(0.993)	13818	0.60314	51.7823
24 Indeno(1,2,3-cd)pyrene	276	8.371	8.388	(1.098)	9787	0.50993	43.7798(M)
25 Dibenzo(a,h)anthracene	278	8.392	8.414	(1.101)	3085	0.15681	13.4626
26 Benzo(g,h,i)perylene	276	8.579	8.602	(1.125)	13274	0.64316	55.2177(M)

QC Flag Legend

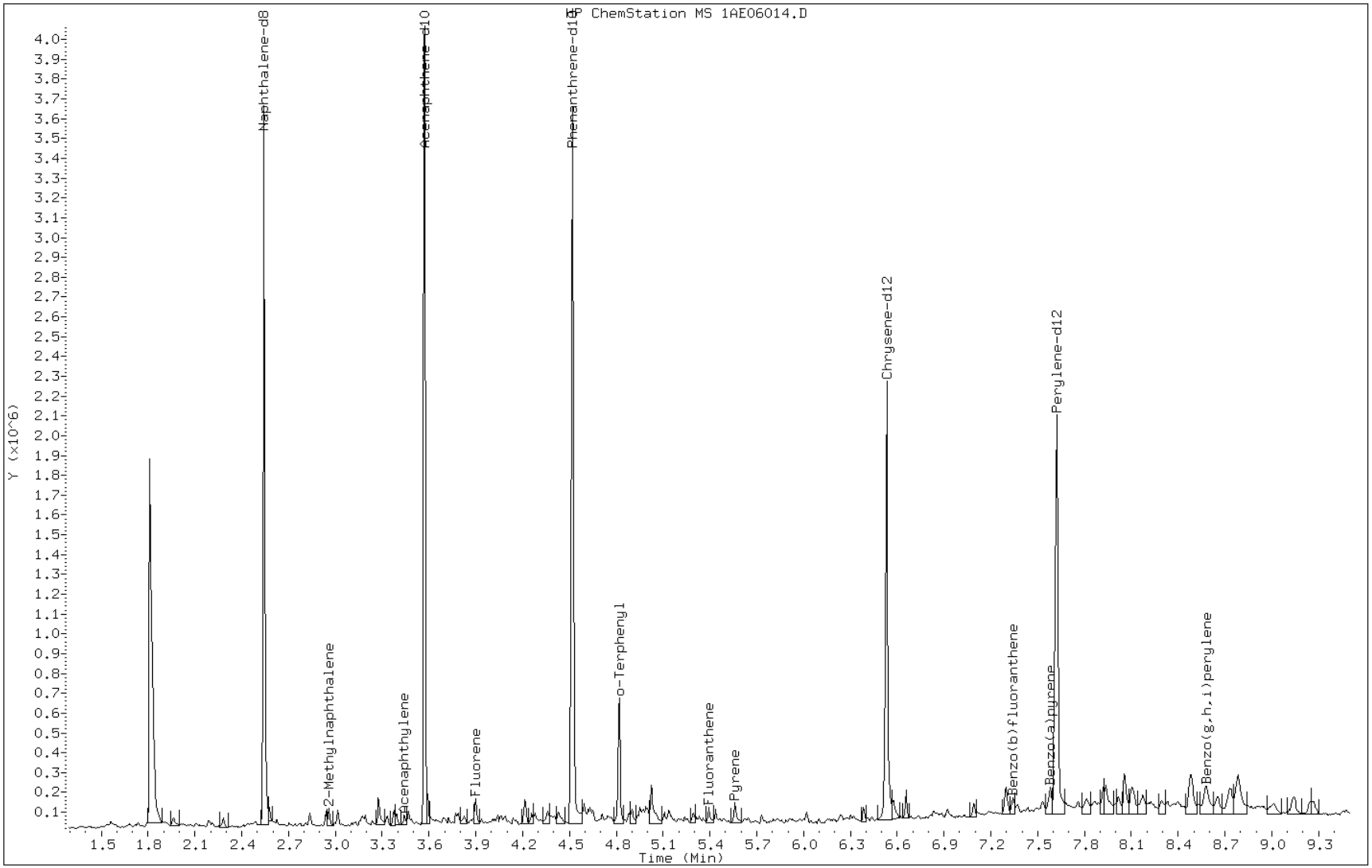
M - Compound response manually integrated.

Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC



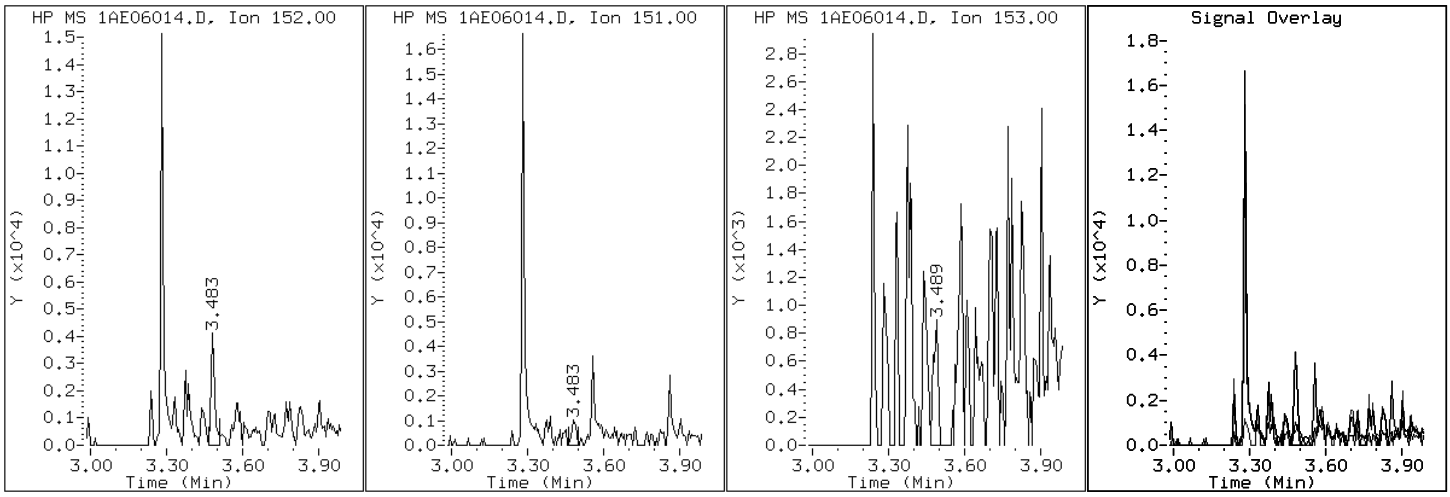
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

5 Acenaphthylene



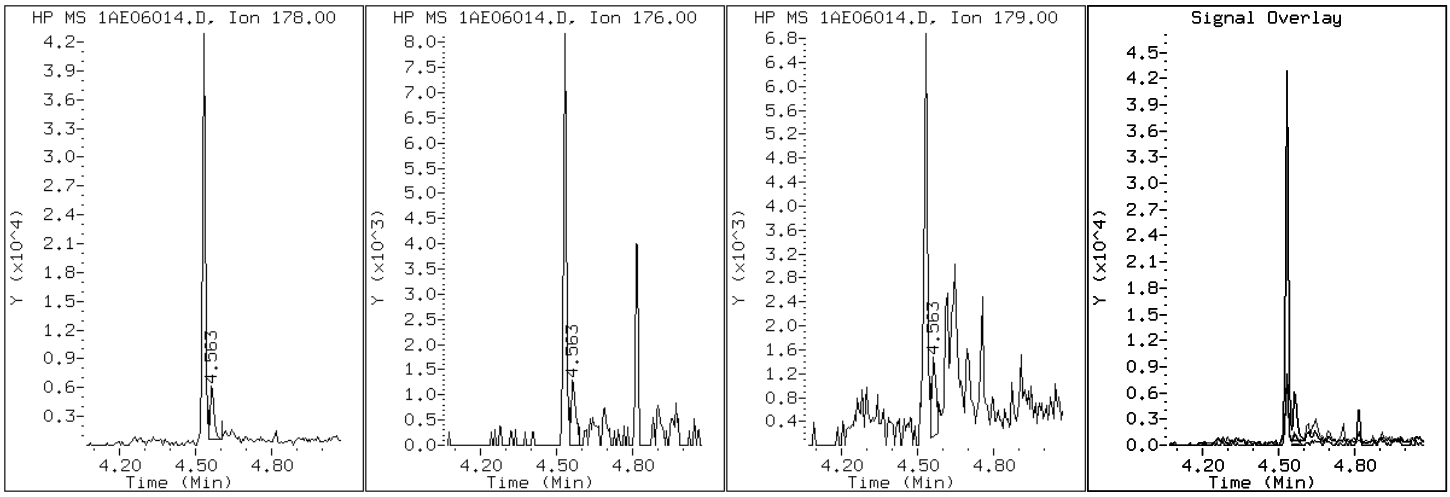
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

12 Anthracene



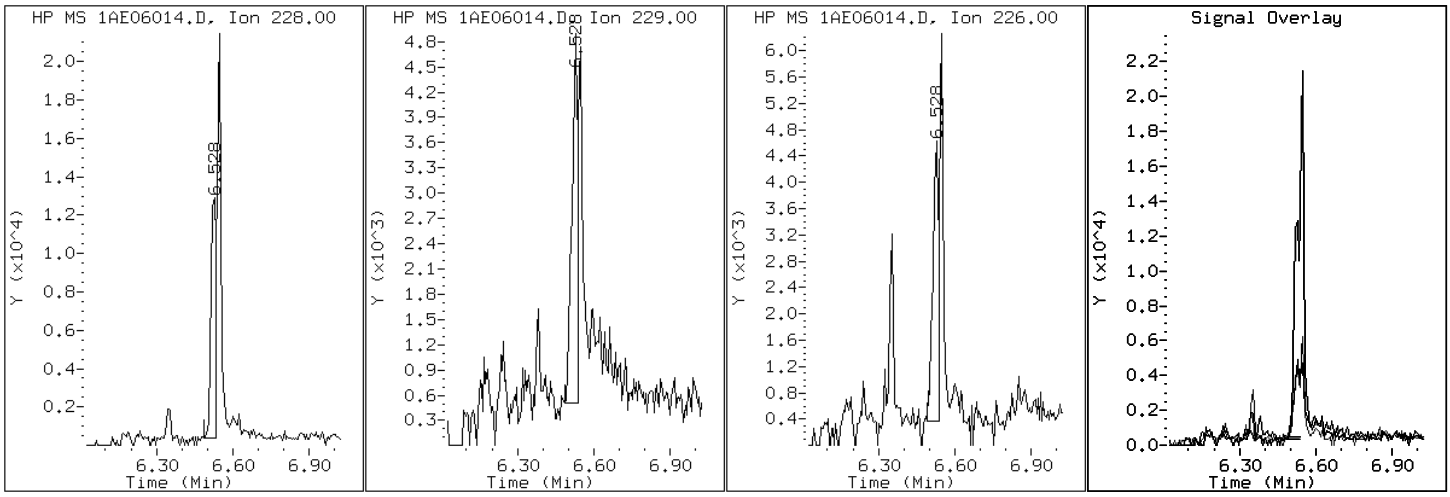
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

17 Benzo(a)anthracene



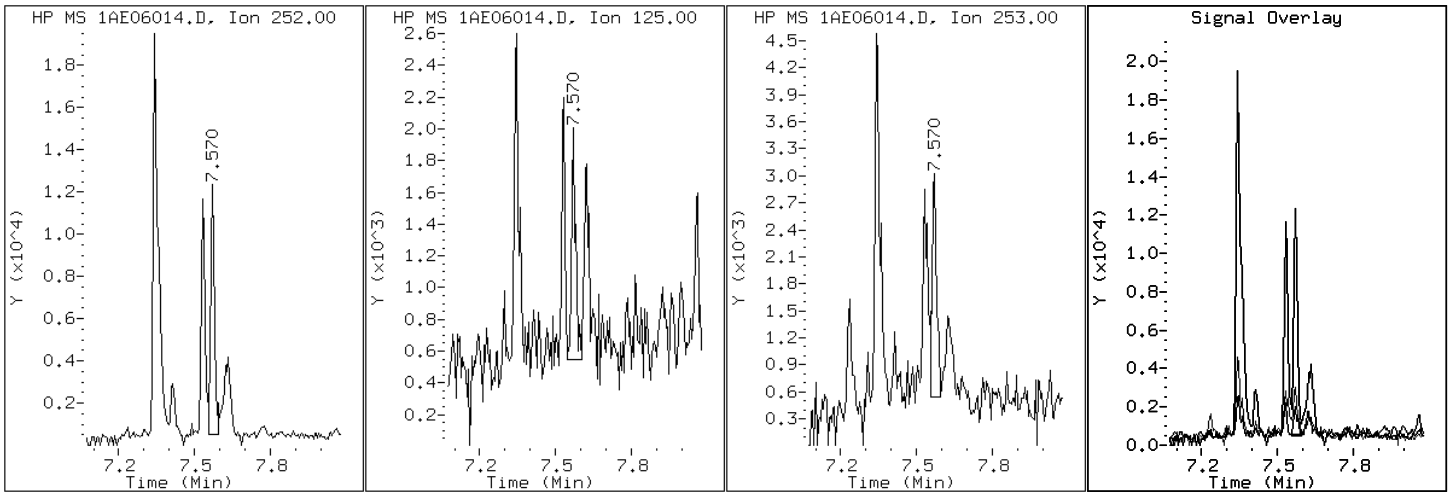
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

22 Benzo(a)pyrene



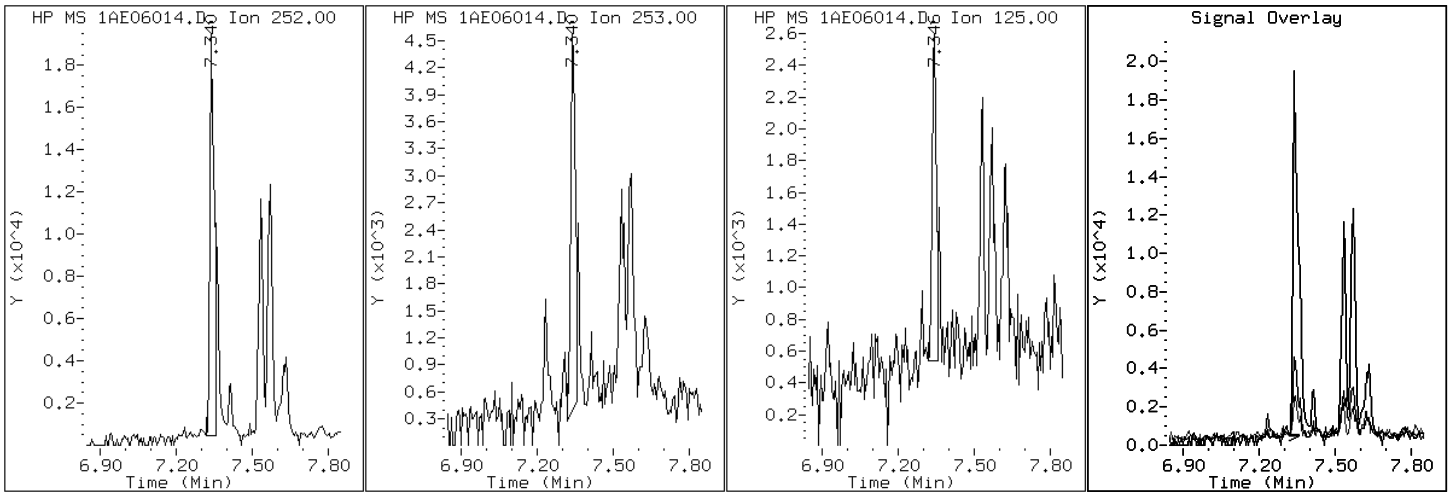
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

20 Benzo(b)fluoranthene



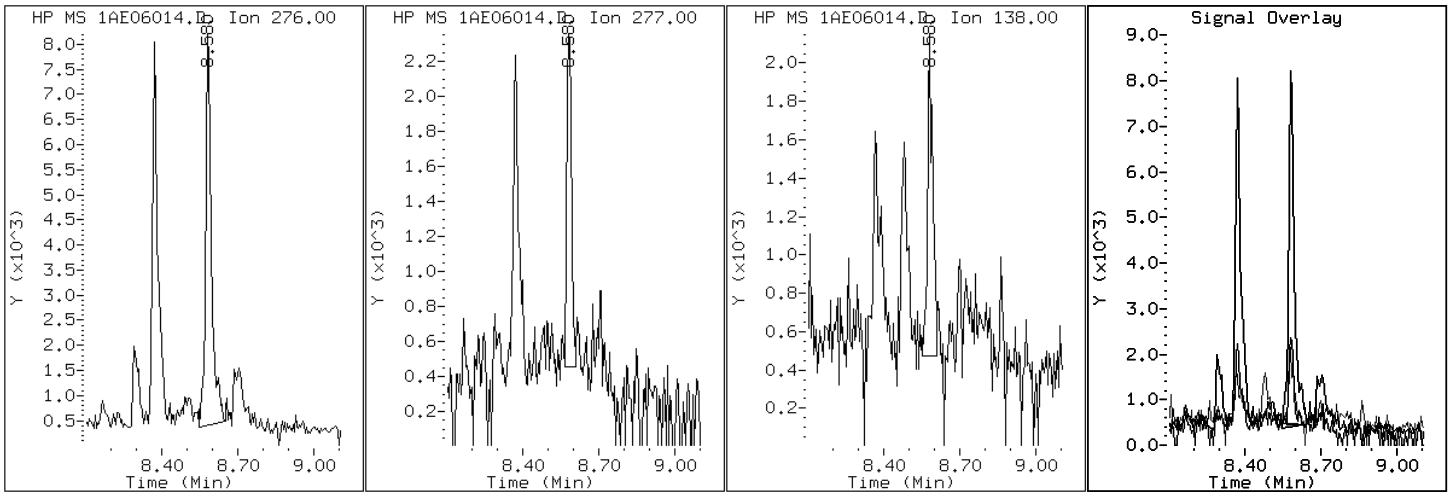
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

26 Benzo(g,h,i)perylene



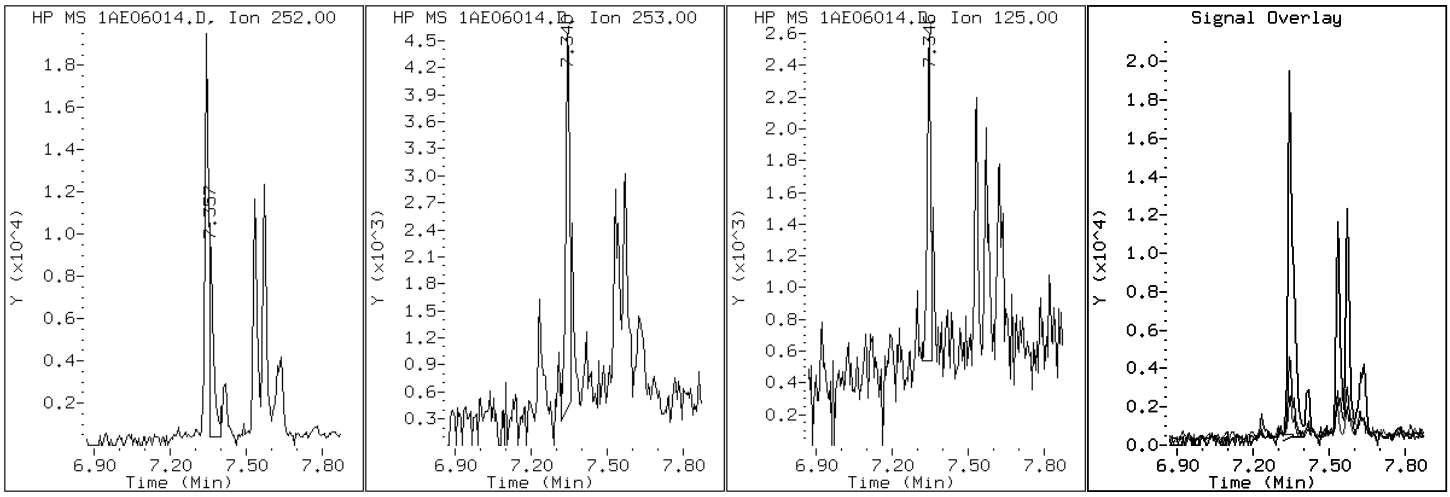
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

21 Benzo(k)fluoranthene



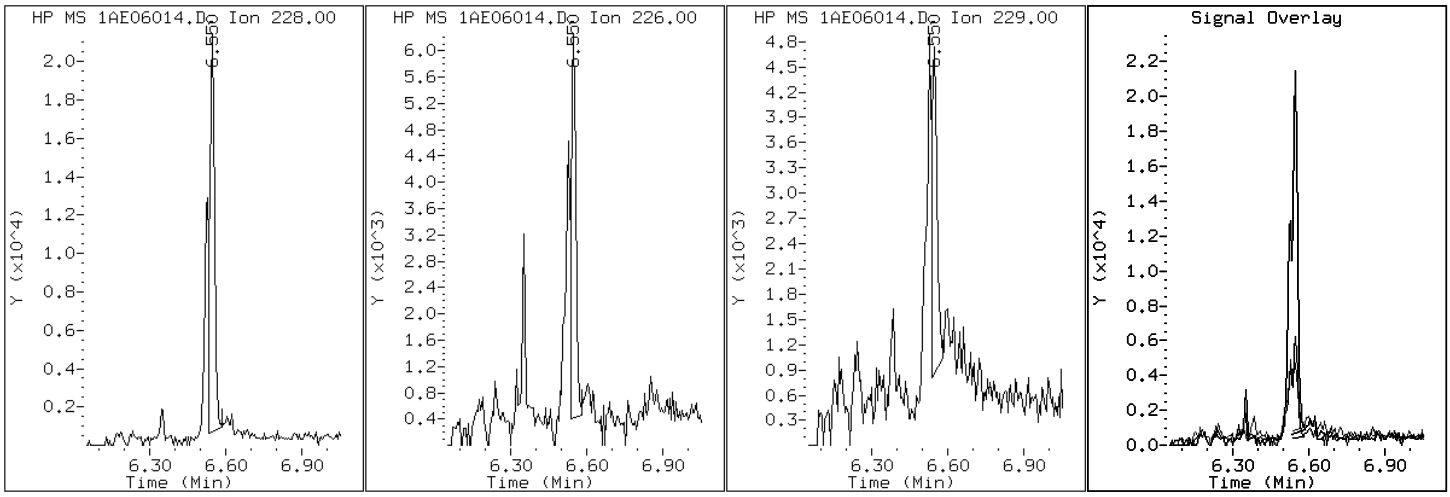
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

19 Chrysene



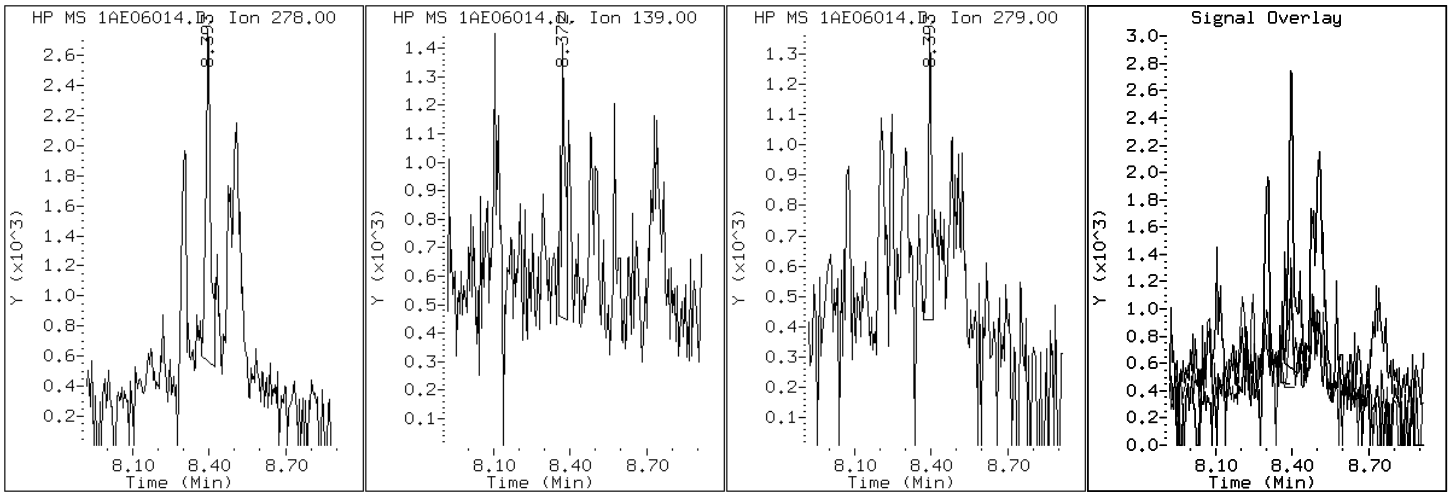
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

25 Dibenzo(a,h)anthracene



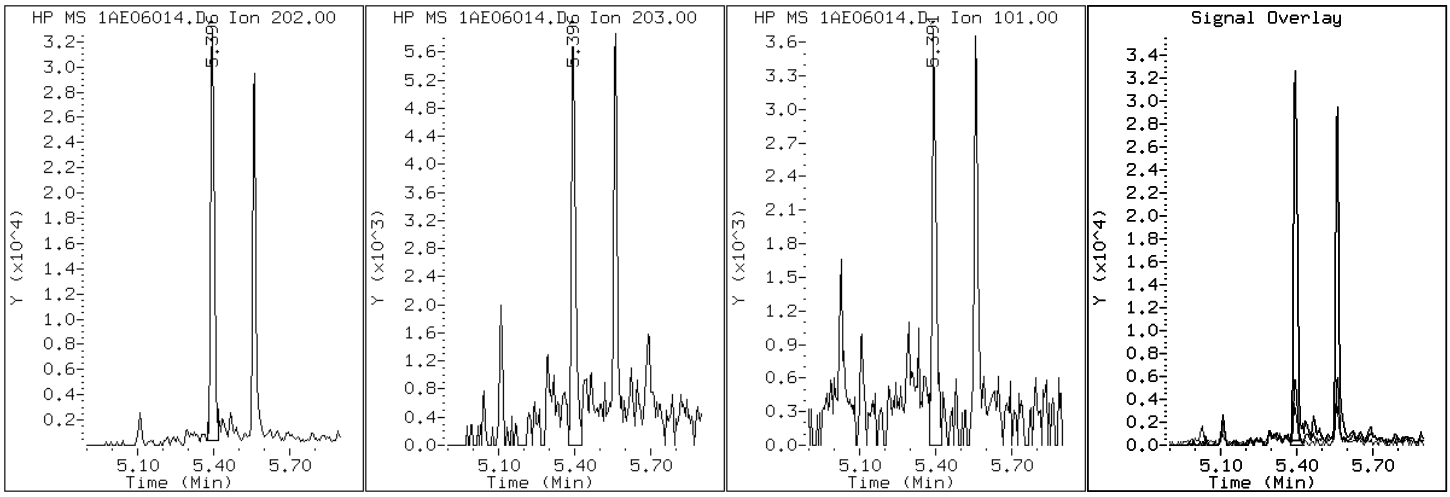
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

15 Fluoranthene



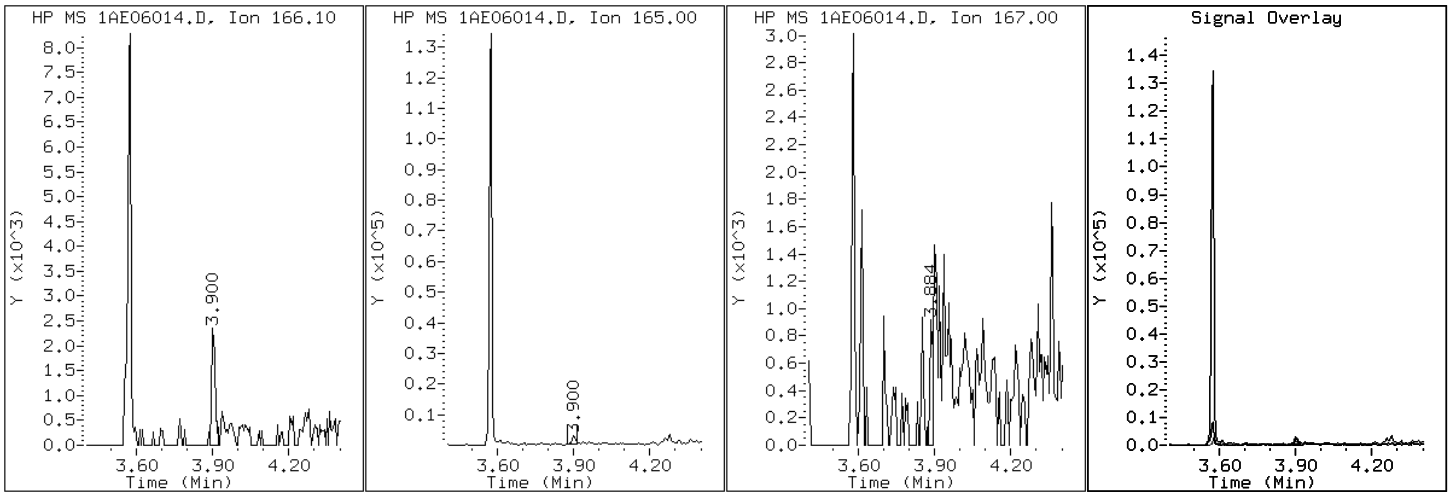
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

9 Fluorene



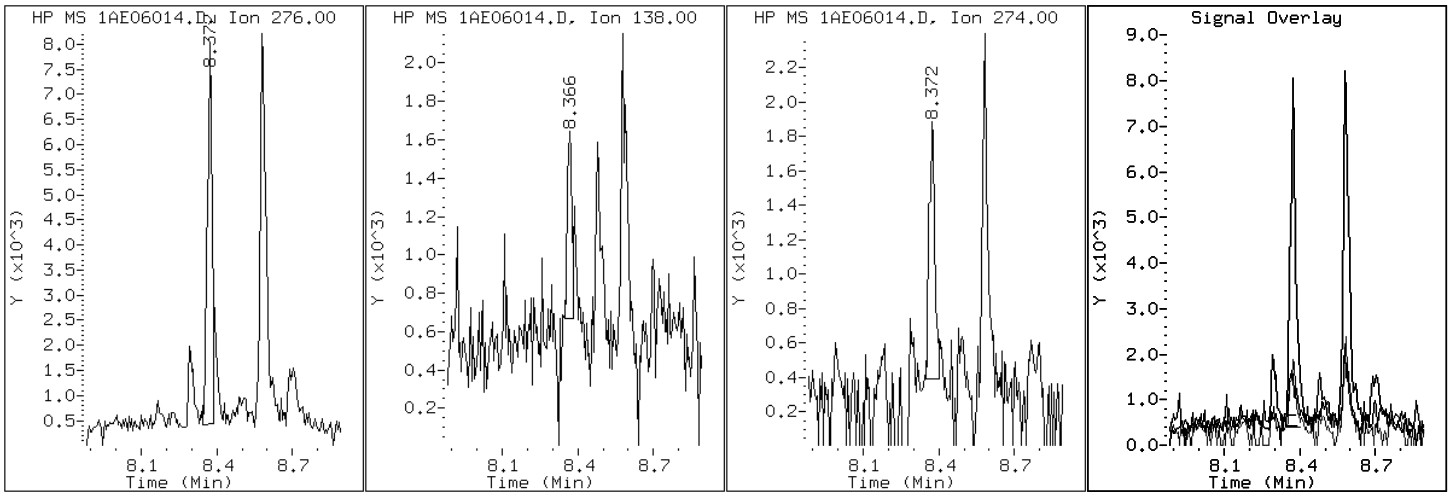
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

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



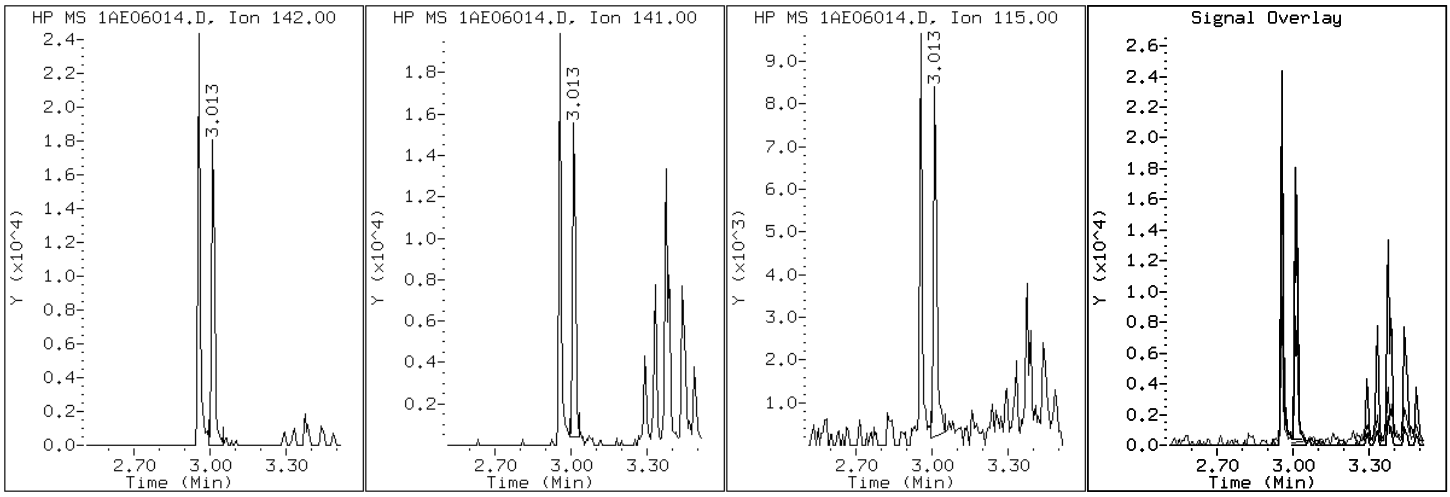
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

4 1-Methylnaphthalene



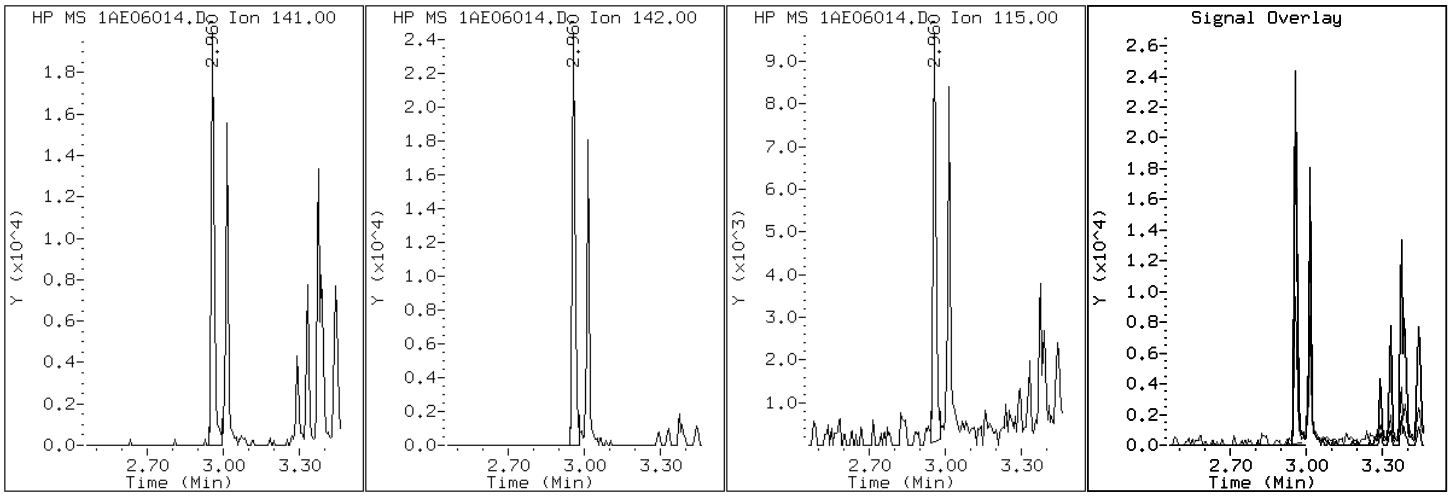
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

3 2-Methylnaphthalene



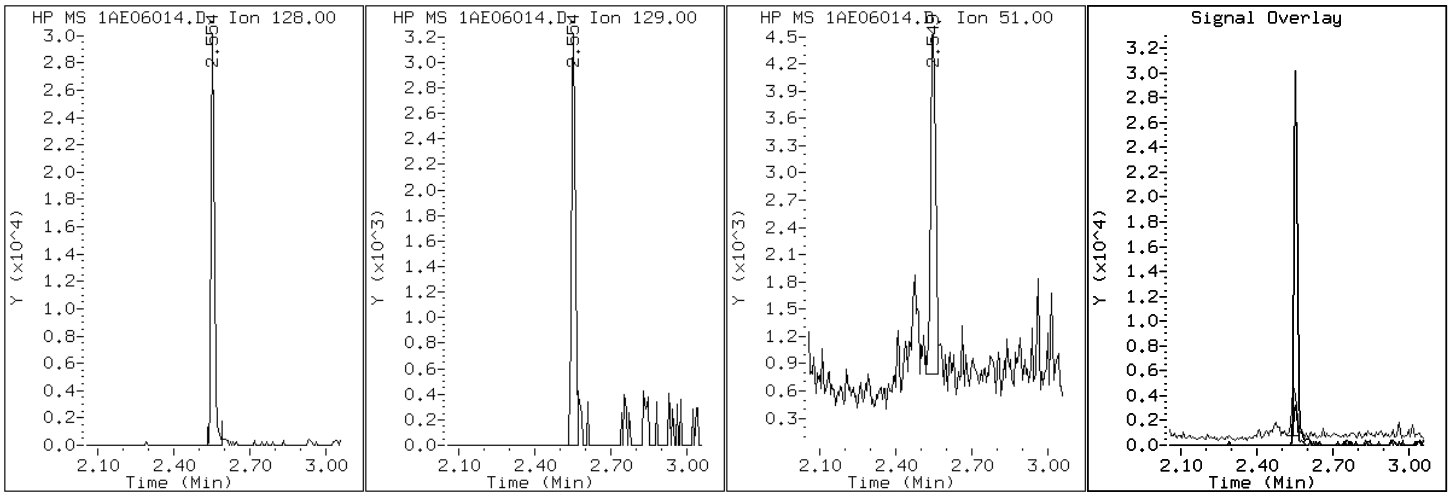
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

2 Naphthalene



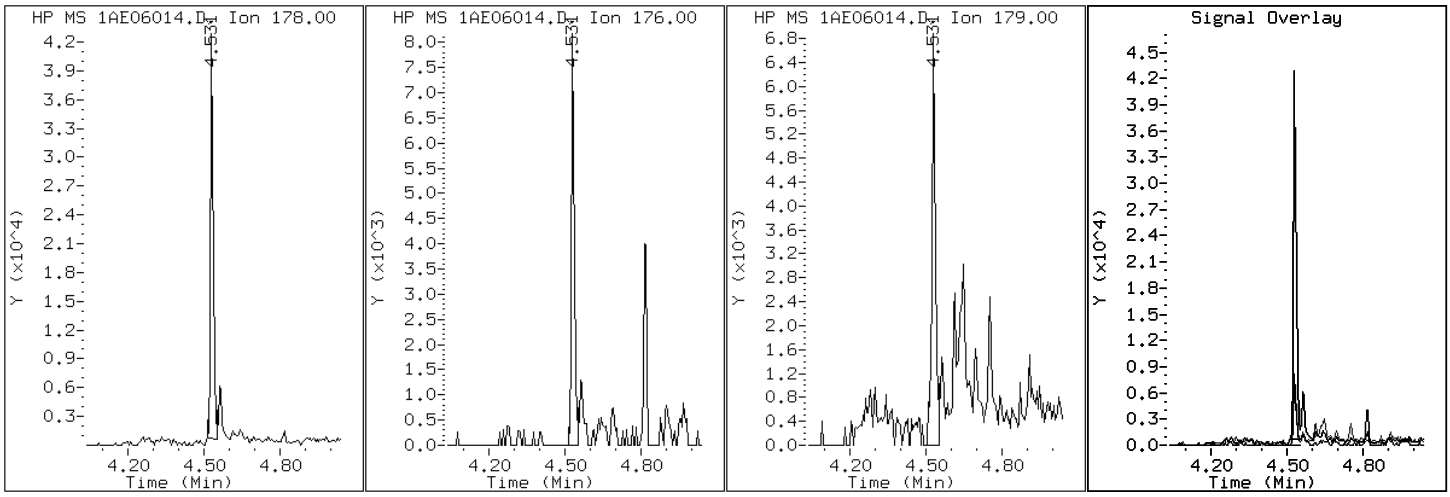
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

11 Phenanthrene



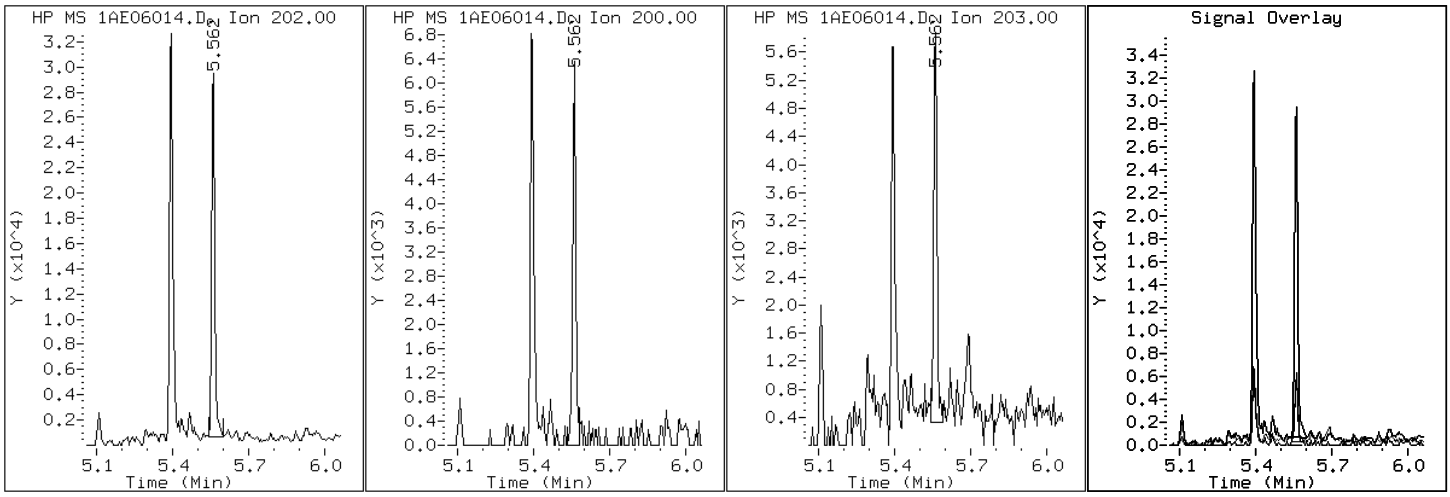
Data File: 1AE06014.D

Date: 06-MAY-2013 14:07

Client ID: CV0728A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-2-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06014.D
Inj. Date and Time: 06-MAY-2013 14:07
Instrument ID: BSMA5973.i
Client ID: CV0728A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

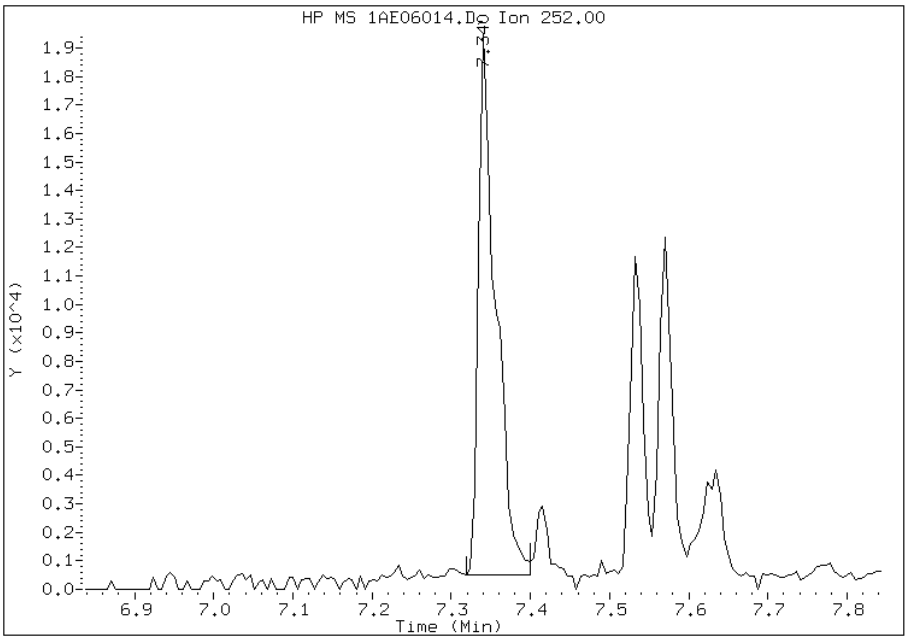
Processing Integration Results

RT: 7.34

Response: 28636

Amount: 1

Conc: 110



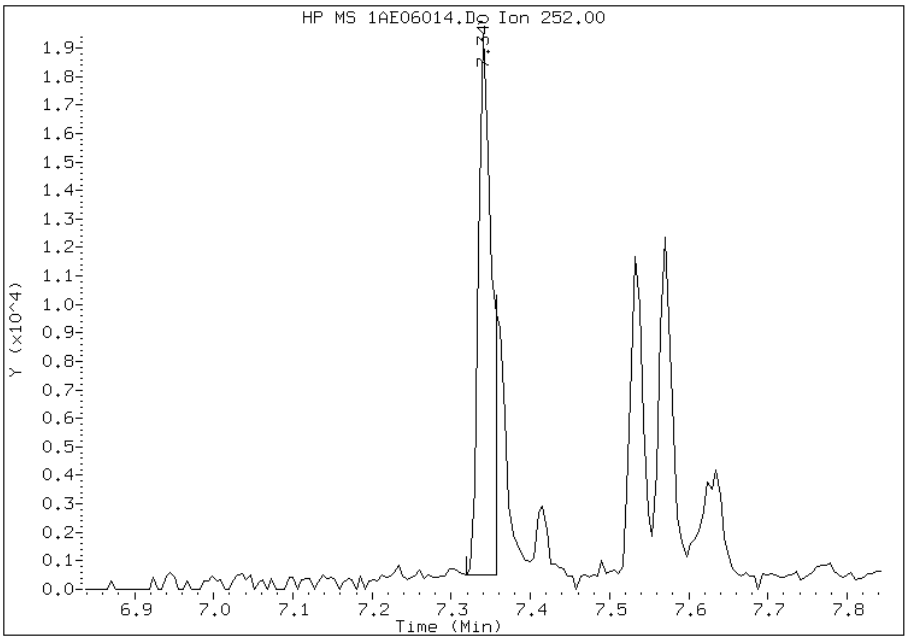
Manual Integration Results

RT: 7.34

Response: 21904

Amount: 1

Conc: 84



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06014.D
Inj. Date and Time: 06-MAY-2013 14:07
Instrument ID: BSMA5973.i
Client ID: CV0728A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

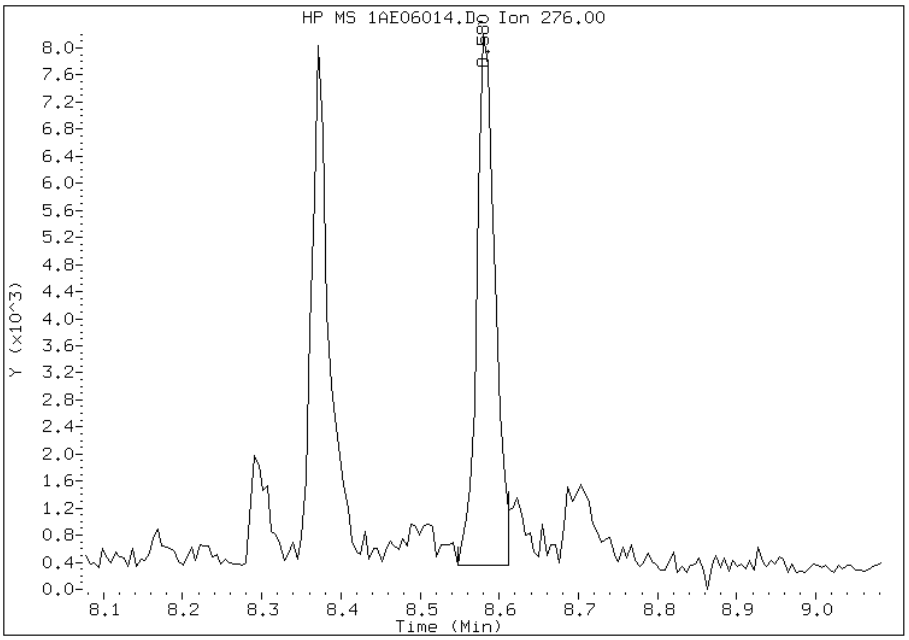
Processing Integration Results

RT: 8.58

Response: 12456

Amount: 1

Conc: 52



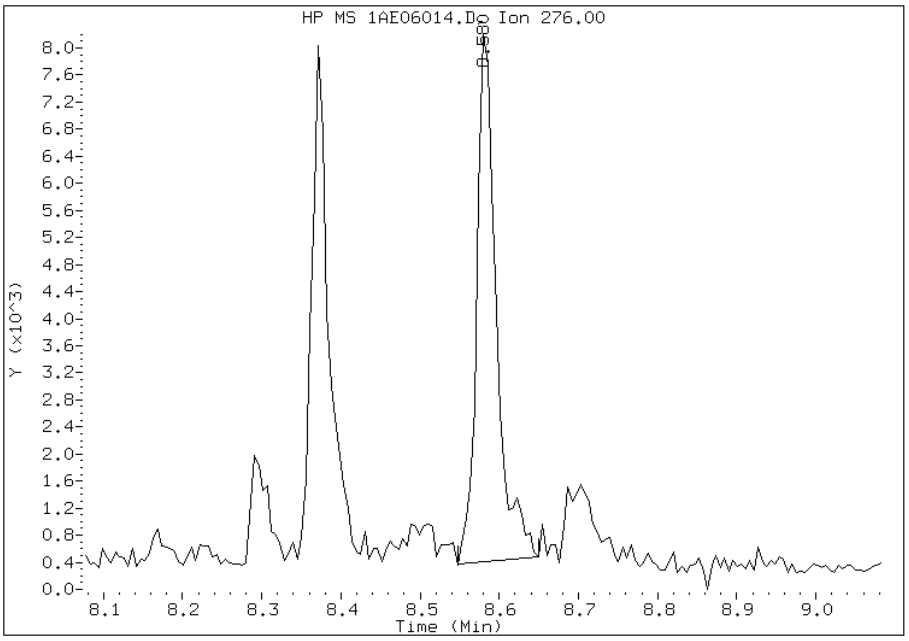
Manual Integration Results

RT: 8.58

Response: 13274

Amount: 1

Conc: 55



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06014.D
Inj. Date and Time: 06-MAY-2013 14:07
Instrument ID: BSMA5973.i
Client ID: CV0728A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

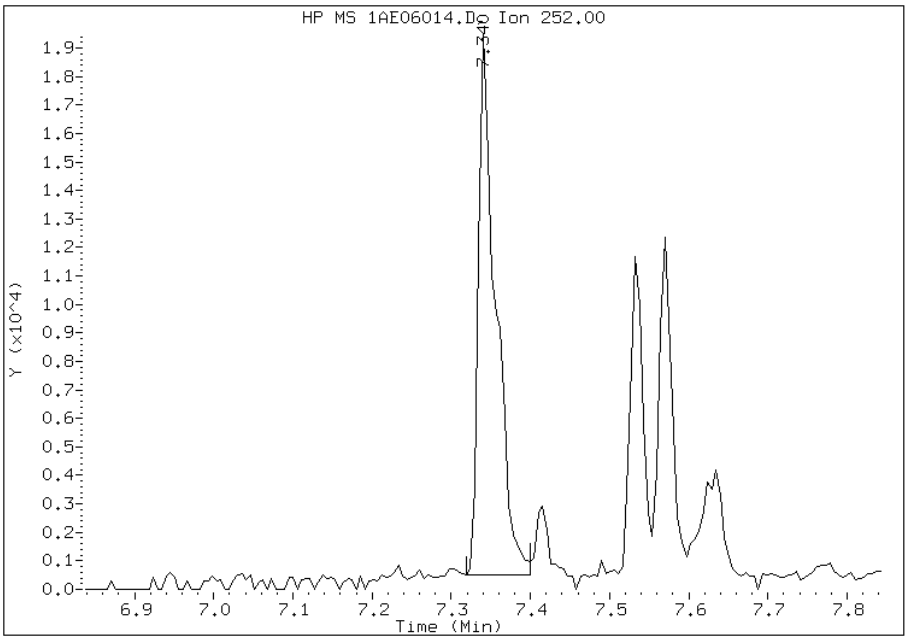
Processing Integration Results

RT: 7.34

Response: 28636

Amount: 1

Conc: 89



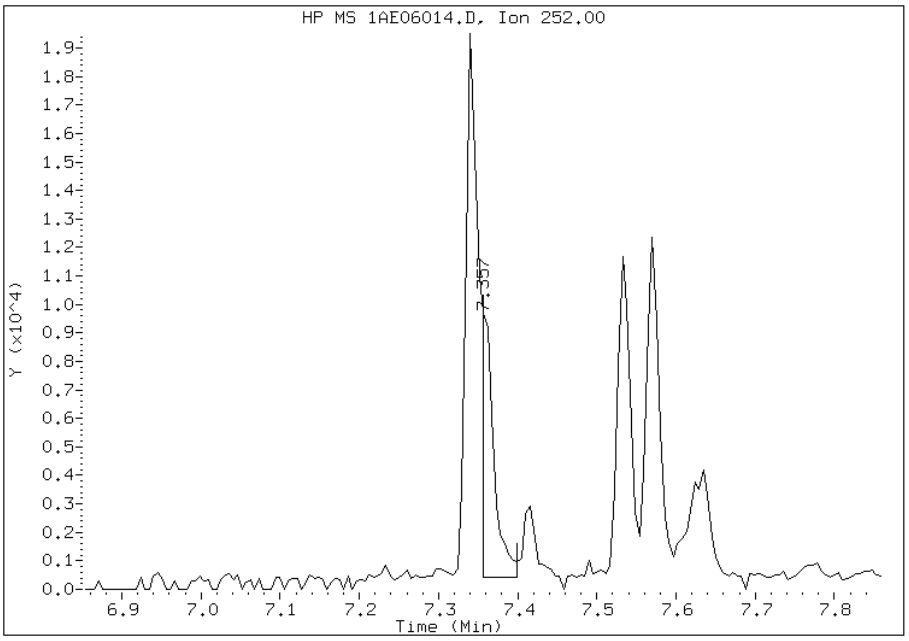
Manual Integration Results

RT: 7.36

Response: 9877

Amount: 0

Conc: 31



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06014.D
Inj. Date and Time: 06-MAY-2013 14:07
Instrument ID: BSMA5973.i
Client ID: CV0728A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

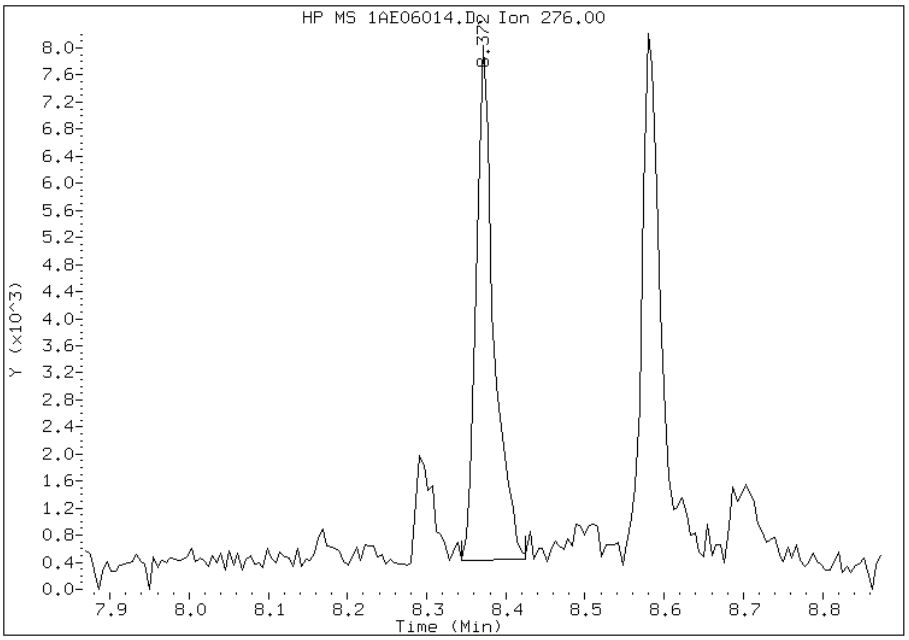
Processing Integration Results

RT: 8.37

Response: 11699

Amount: 1

Conc: 52



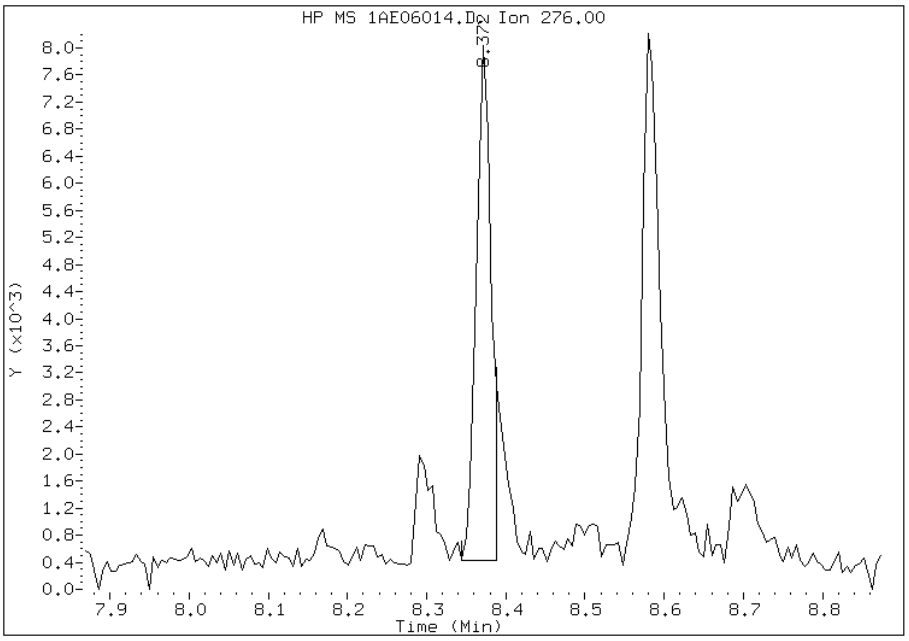
Manual Integration Results

RT: 8.37

Response: 9787

Amount: 1

Conc: 44



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0728B-CS-SP | Lab Sample ID: 680-89896-3

Matrix: Solid | Lab File ID: 1AE06015.D

Analysis Method: 8270C LL | Date Collected: 04/29/2013 13:57

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 15.04(g) | Date Analyzed: 05/06/2013 14:22

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

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

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

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	9.5	J	54	6.7
120-12-7	Anthracene	13		11	5.7
56-55-3	Benzo[a]anthracene	42		11	5.3
50-32-8	Benzo[a]pyrene	33		14	7.0
205-99-2	Benzo[b]fluoranthene	51		16	8.2
191-24-2	Benzo[g,h,i]perylene	44		27	5.9
207-08-9	Benzo[k]fluoranthene	27		11	4.9
218-01-9	Chrysene	57		12	6.1
53-70-3	Dibenz(a,h)anthracene	12	J	27	5.5
206-44-0	Fluoranthene	53		27	5.4
86-73-7	Fluorene	5.8	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	35		27	9.6
90-12-0	1-Methylnaphthalene	32	J	54	5.9
91-57-6	2-Methylnaphthalene	42	J	54	9.6
91-20-3	Naphthalene	44	J	54	5.9
85-01-8	Phenanthrene	56		11	5.3
129-00-0	Pyrene	56		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	44		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06015.D
Lab Smp Id: 680-89896-A-3-A Client Smp ID: CV0728B-CS-SP
Inj Date : 06-MAY-2013 14:22
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-3-a
Misc Info : 680-89896-A-3-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	26.030	% 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	2.546	2.544	(1.000)	1387889	40.0000	
* 6 Acenaphthene-d10	164	3.571	3.575	(1.000)	718312	40.0000	
* 10 Phenanthrene-d10	188	4.522	4.521	(1.000)	1143168	40.0000	
$ 14 o-Terphenyl	230	4.816	4.820	(1.065)	72499	4.43115	398.3041
* 18 Chrysene-d12	240	6.536	6.535	(1.000)	821080	40.0000	
* 23 Perylene-d12	264	7.626	7.630	(1.000)	966514	40.0000	
2 Naphthalene	128	2.556	2.555	(1.004)	15999	0.48951	44.0008
3 2-Methylnaphthalene	141	2.957	2.961	(1.162)	7742	0.46610	41.8961
4 1-Methylnaphthalene	142	3.016	3.014	(1.185)	7036	0.35340	31.7664
5 Acenaphthylene	152	3.486	3.484	(0.976)	3555	0.10532	9.4673
9 Fluorene	166	3.903	3.901	(1.093)	1415	0.06406	5.7579(Q)
11 Phenanthrene	178	4.533	4.537	(1.002)	17510	0.61827	55.5744
12 Anthracene	178	4.565	4.569	(1.009)	4373	0.14495	13.0294
13 Carbazole	167	4.704	4.702	(1.040)	2679	0.09877	8.8777

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.393	5.397	(1.193)	19038	0.58433	52.5238
16 Pyrene	202	5.559	5.562	(0.850)	16319	0.61832	55.5788
17 Benzo(a)anthracene	228	6.531	6.524	(0.999)	10825	0.46910	42.1665
19 Chrysene	228	6.547	6.551	(1.002)	16560	0.63781	57.3313
20 Benzo(b)fluoranthene	252	7.343	7.347	(0.963)	14566	0.57017	51.2514(M)
21 Benzo(k)fluoranthene	252	7.354	7.368	(0.964)	9664	0.30493	27.4091(M)
22 Benzo(a)pyrene	252	7.573	7.576	(0.993)	9700	0.36972	33.2329
24 Indeno(1,2,3-cd)pyrene	276	8.379	8.388	(1.099)	8615	0.39196	35.2322(M)
25 Dibenzo(a,h)anthracene	278	8.401	8.414	(1.102)	3056	0.13564	12.1924
26 Benzo(g,h,i)perylene	276	8.593	8.602	(1.127)	11663	0.49346	44.3555(M)

QC Flag Legend

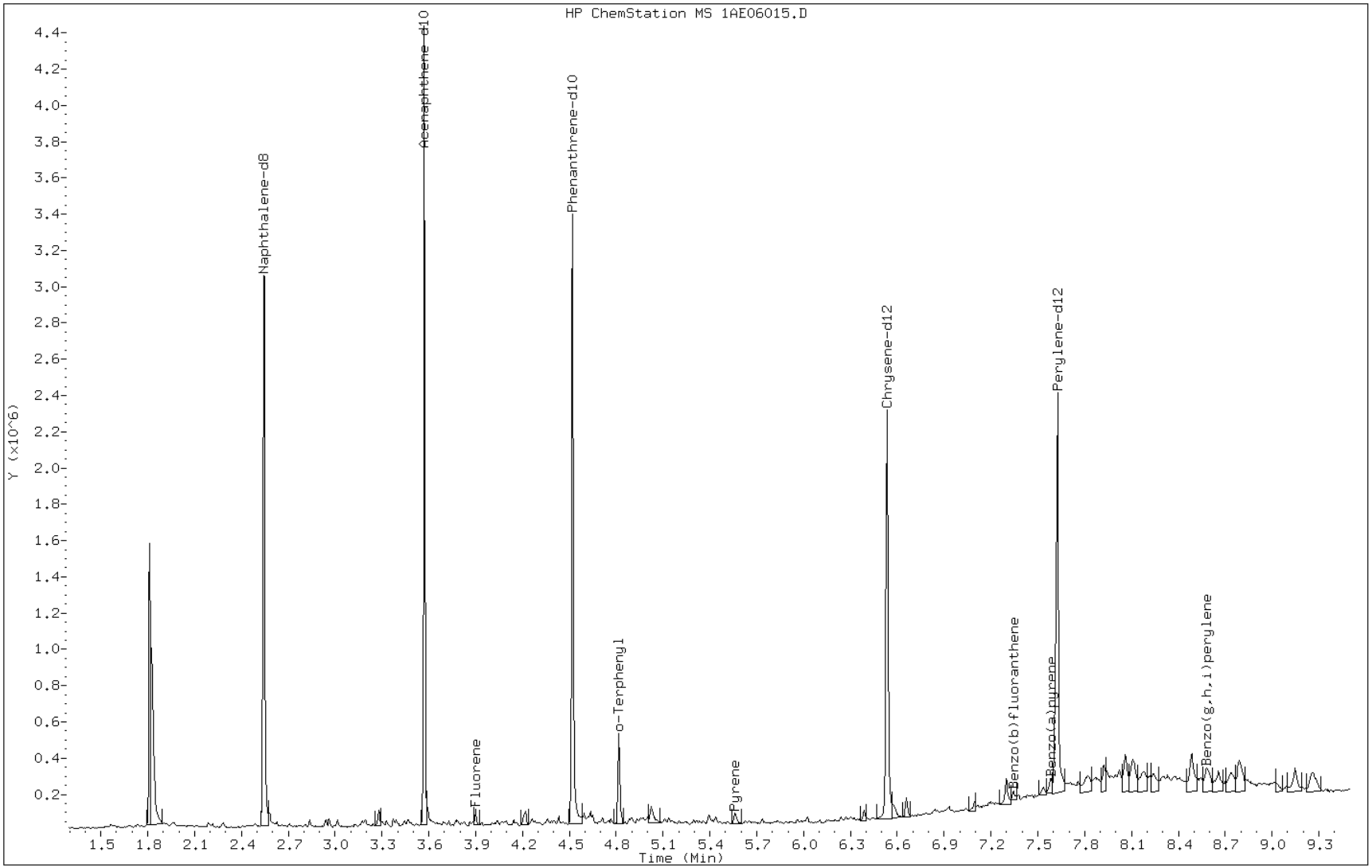
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC



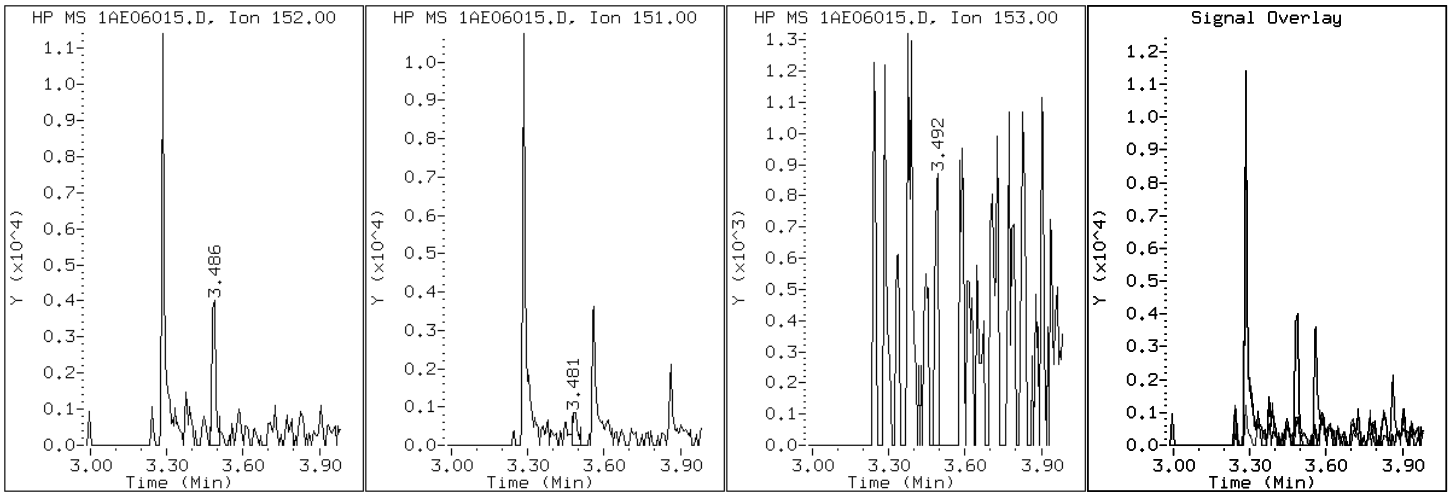
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

5 Acenaphthylene



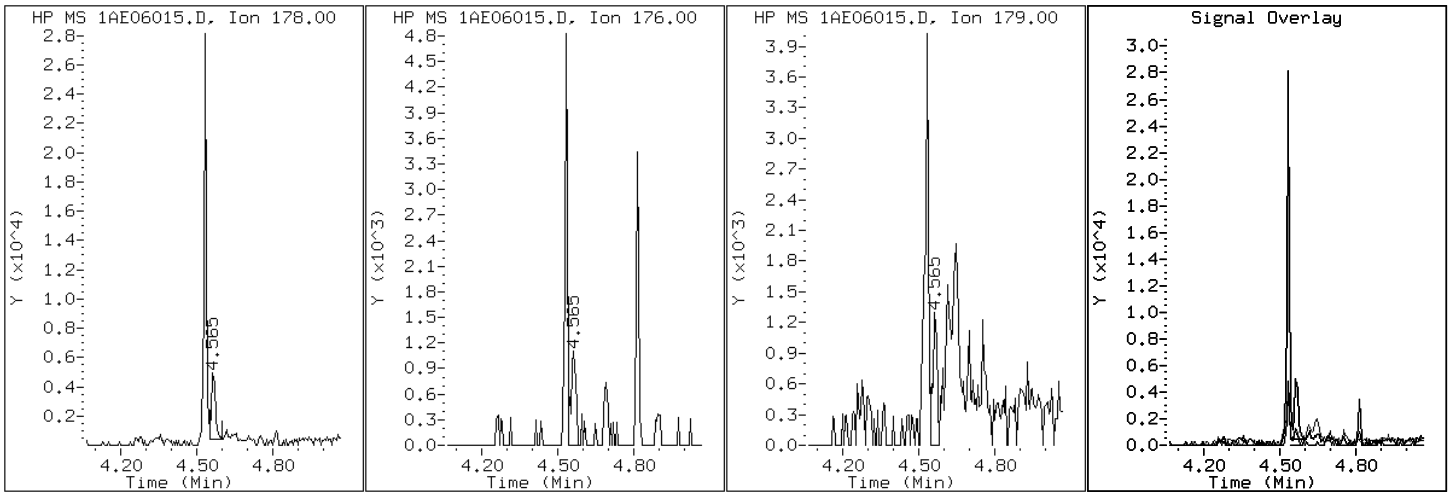
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

12 Anthracene



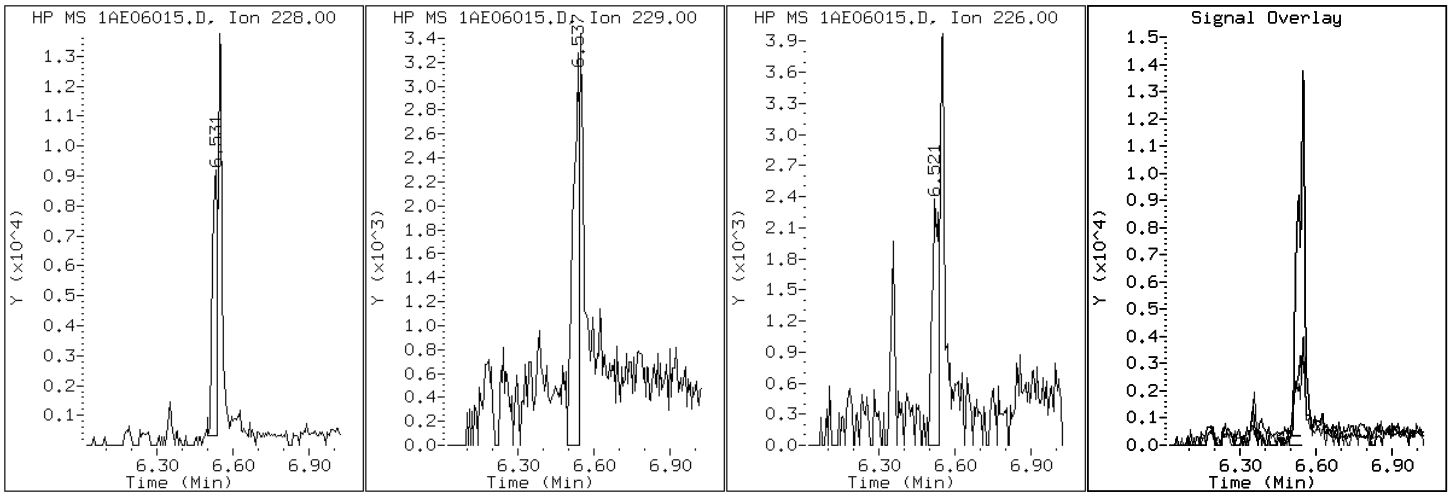
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

17 Benzo(a)anthracene



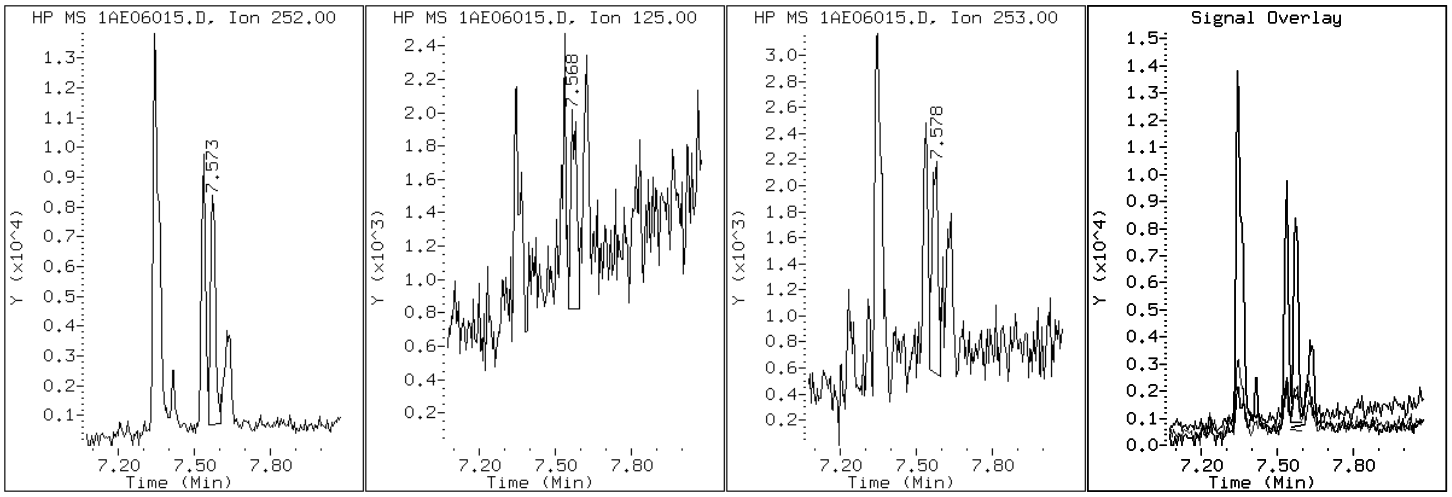
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

22 Benzo(a)pyrene



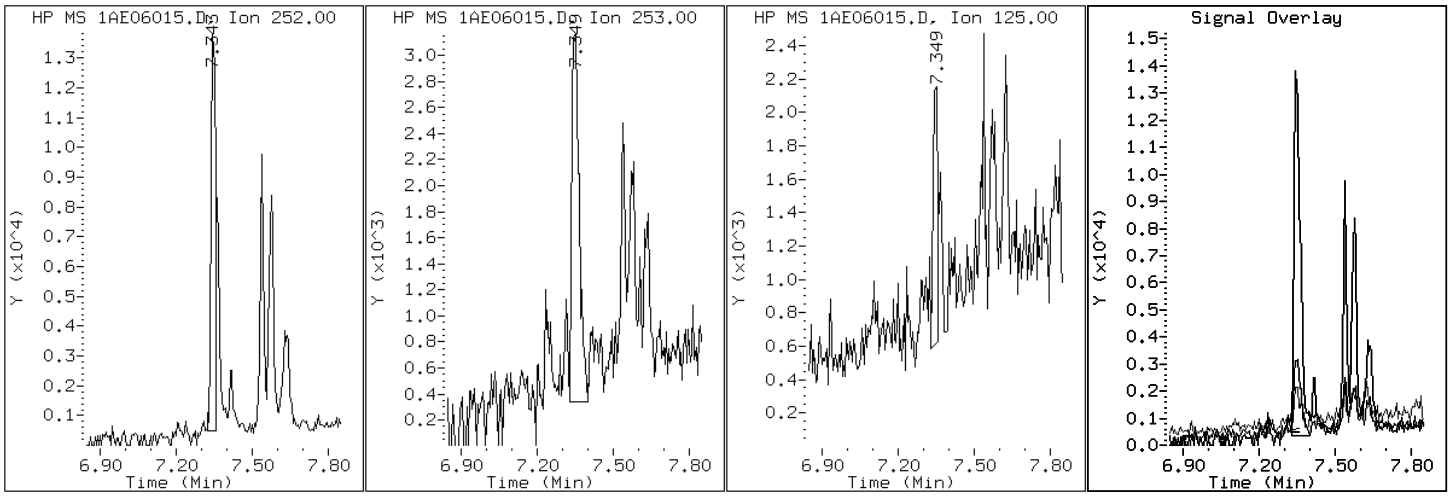
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

20 Benzo(b)fluoranthene



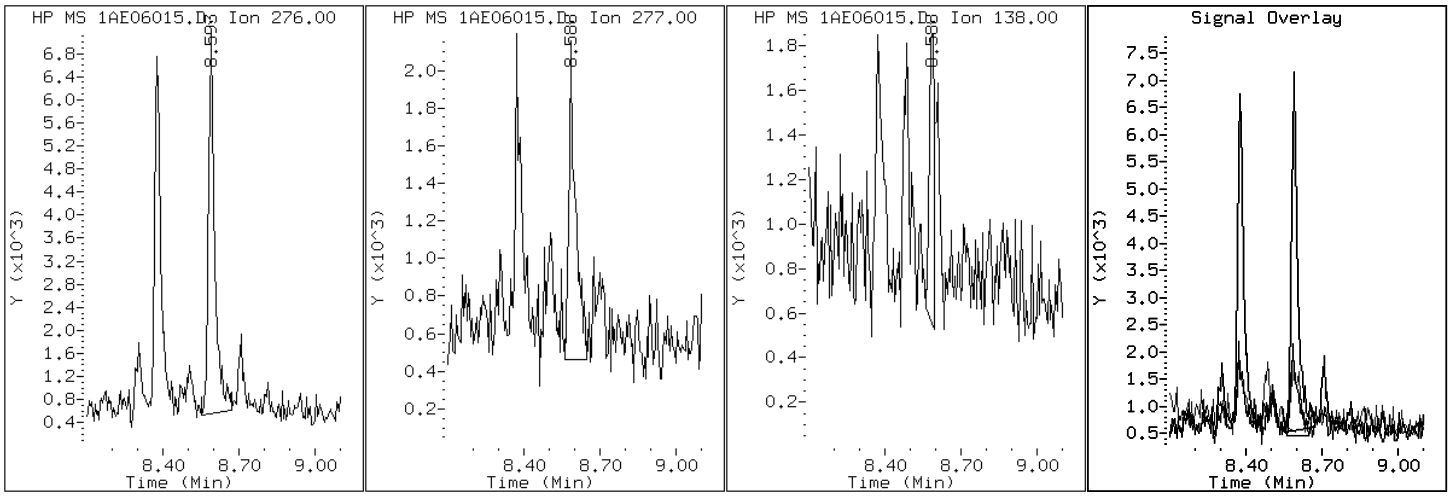
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

26 Benzo(g,h,i)perylene



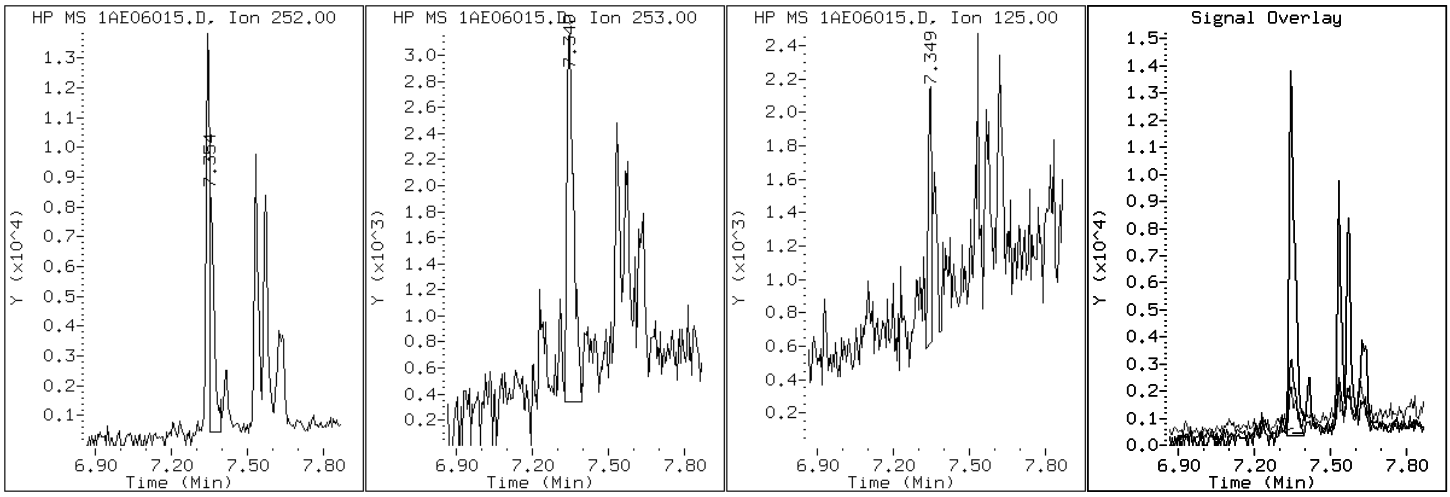
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

21 Benzo(k)fluoranthene



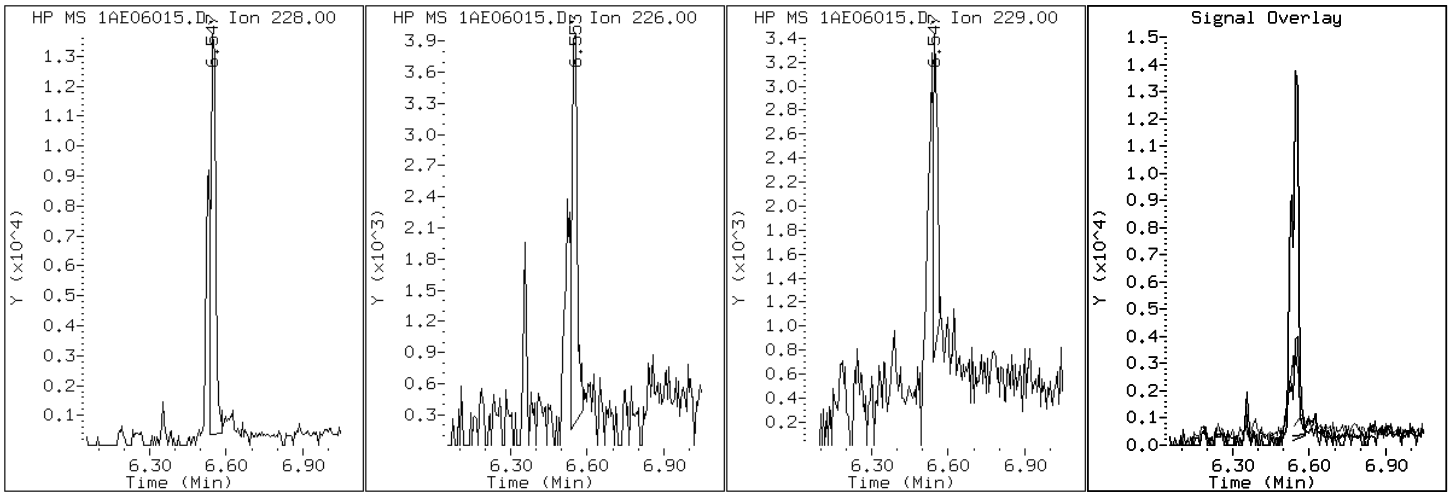
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

19 Chrysene



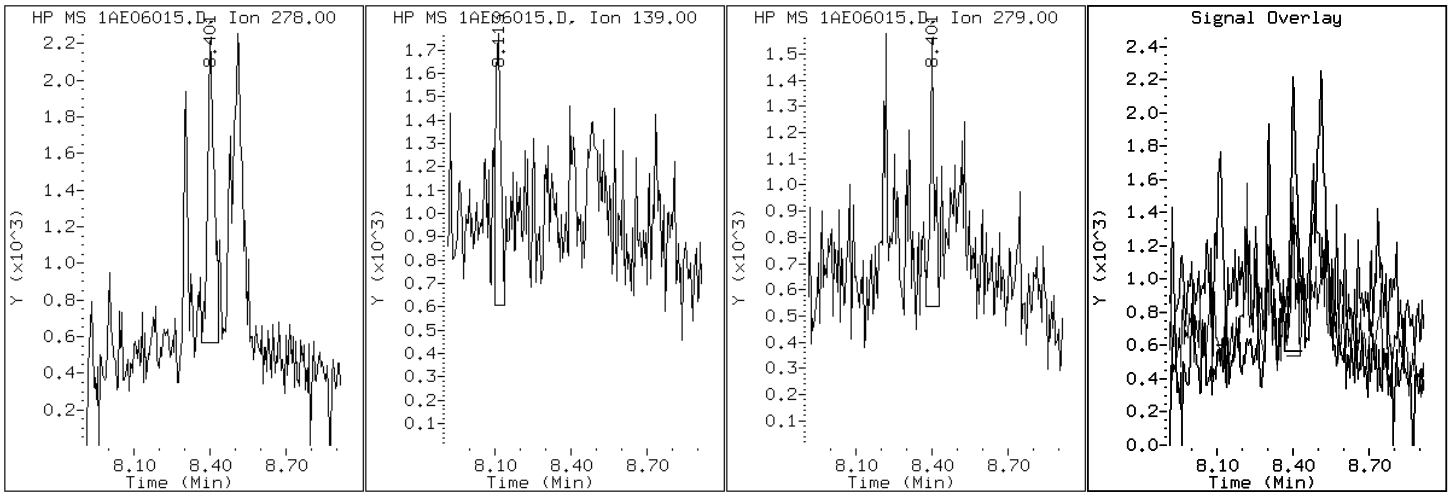
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

25 Dibenzo(a,h)anthracene



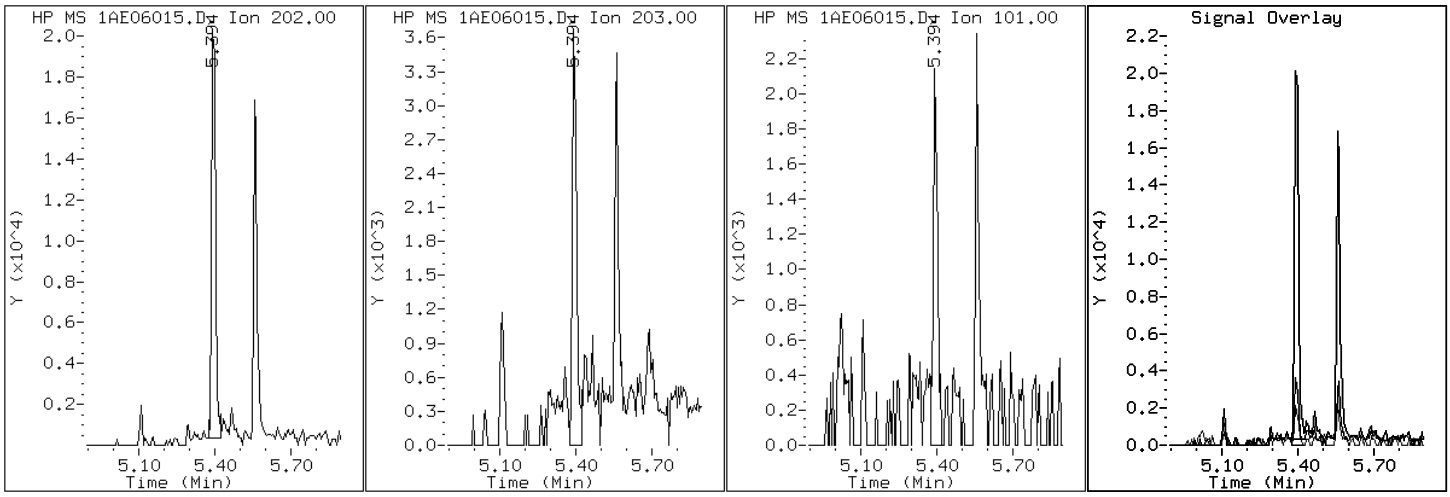
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

15 Fluoranthene



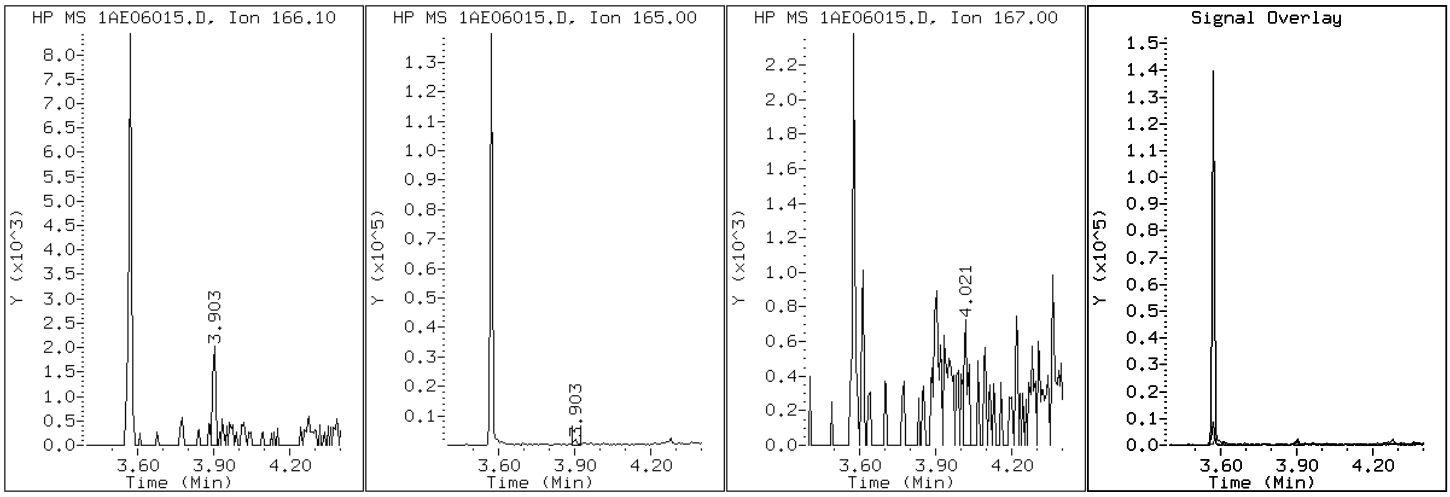
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

9 Fluorene



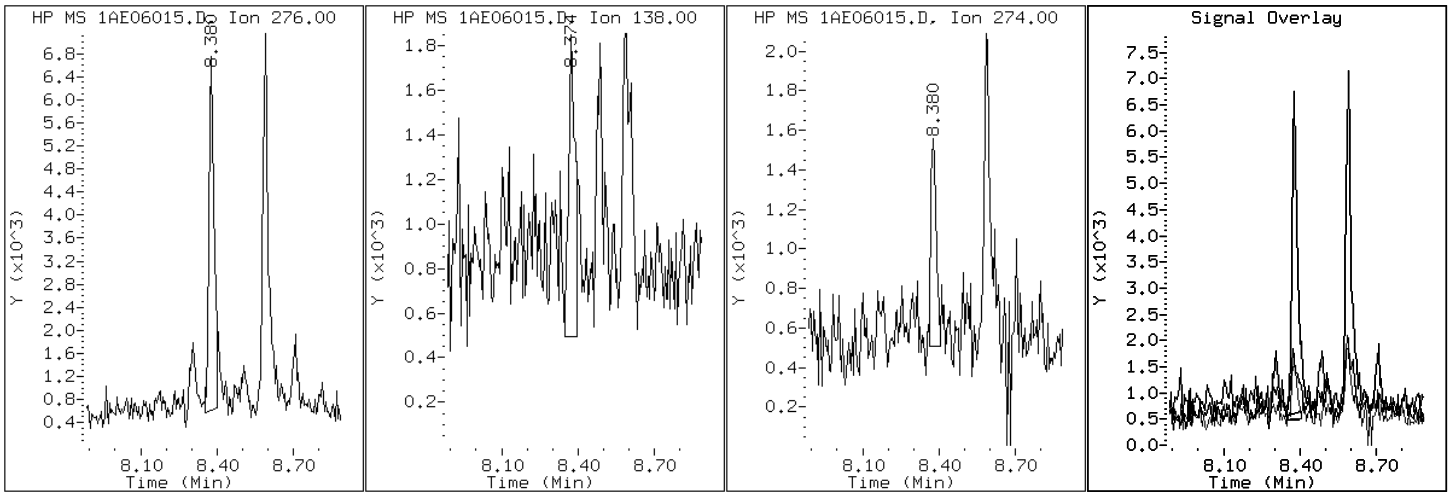
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

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



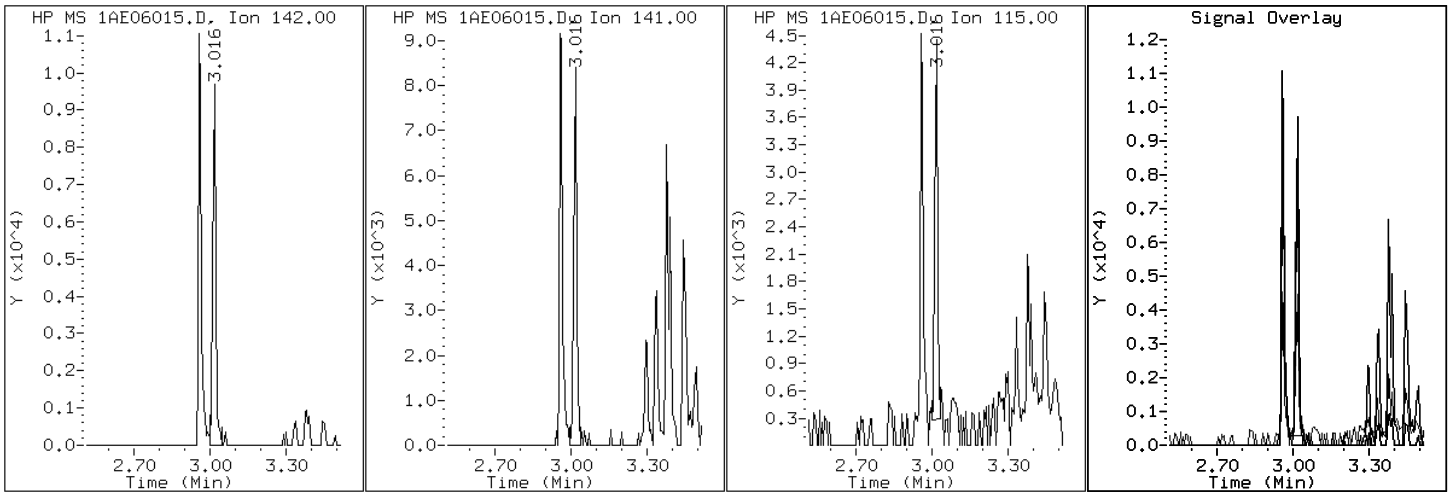
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

4 1-Methylnaphthalene



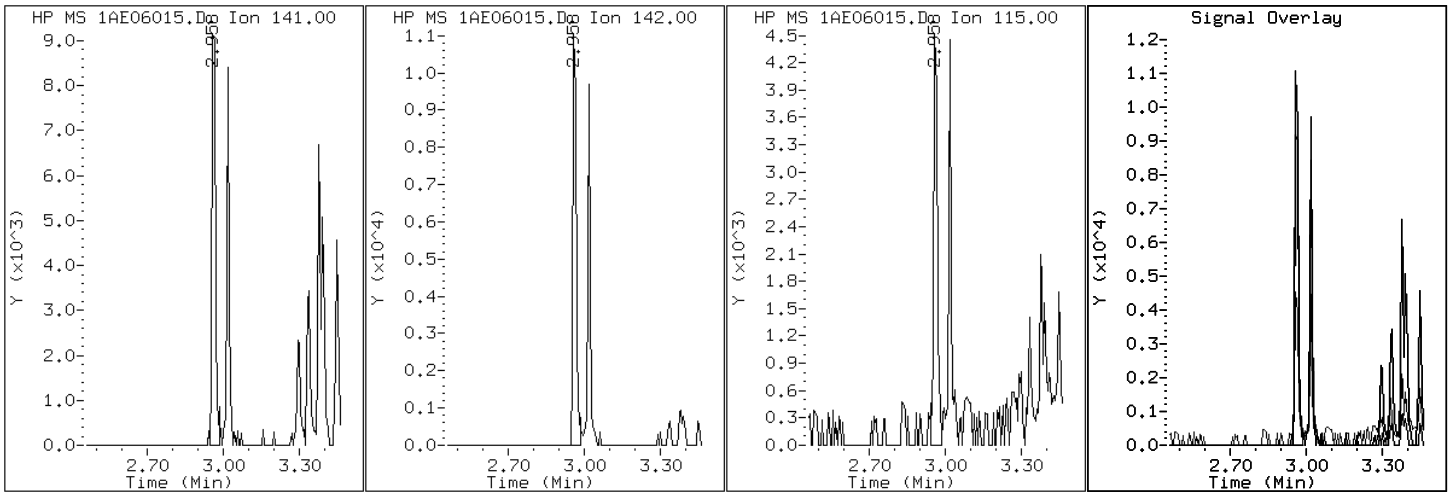
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

3 2-Methylnaphthalene



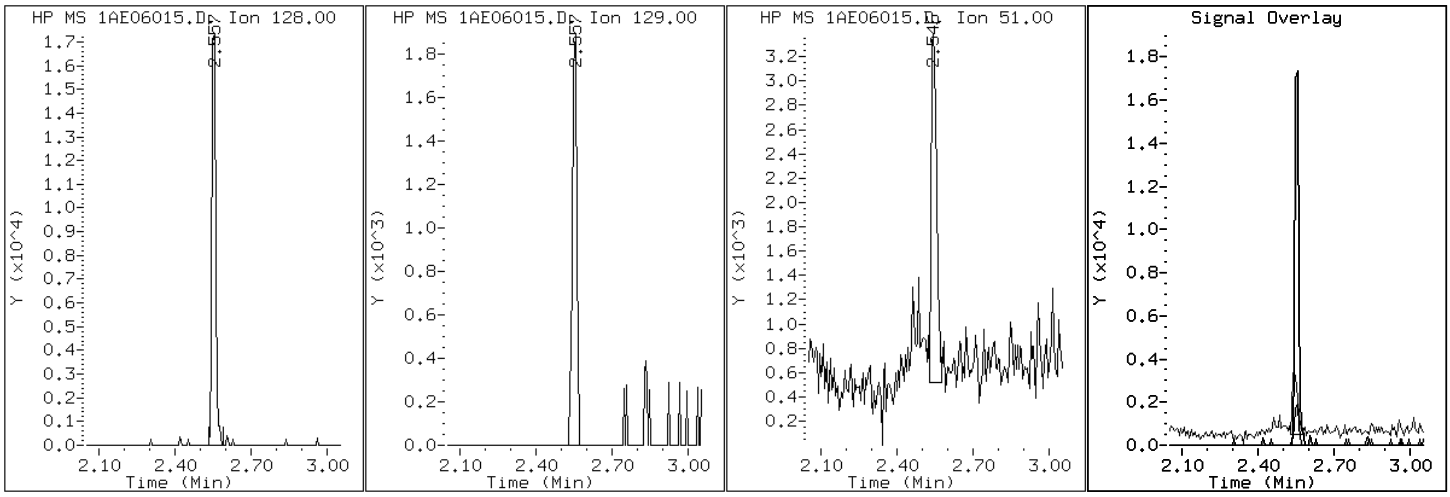
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

2 Naphthalene



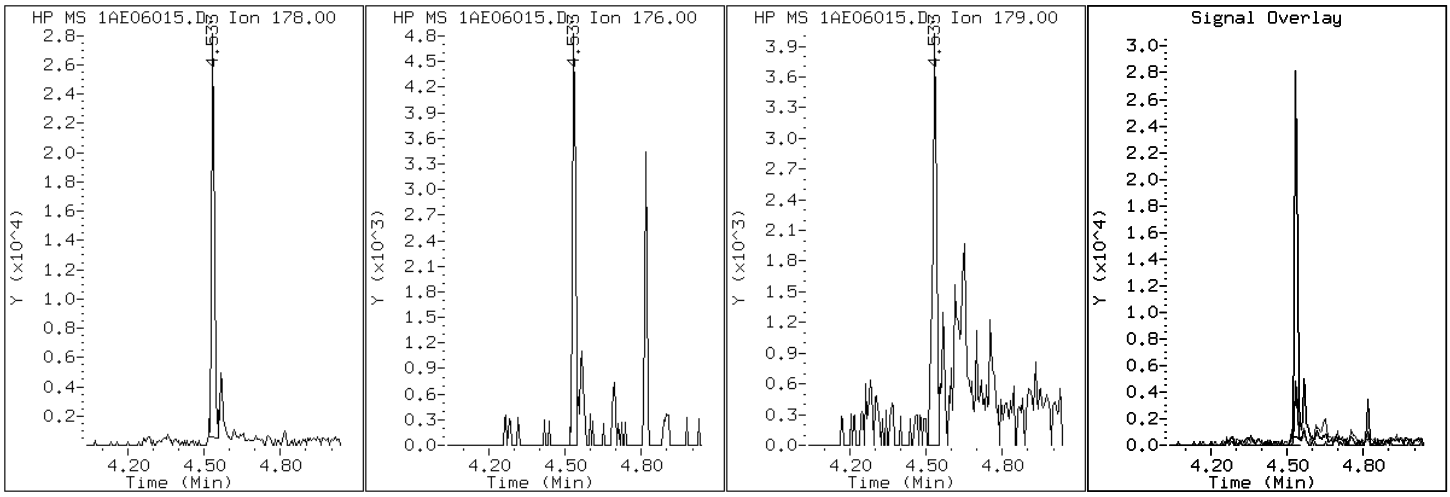
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

11 Phenanthrene



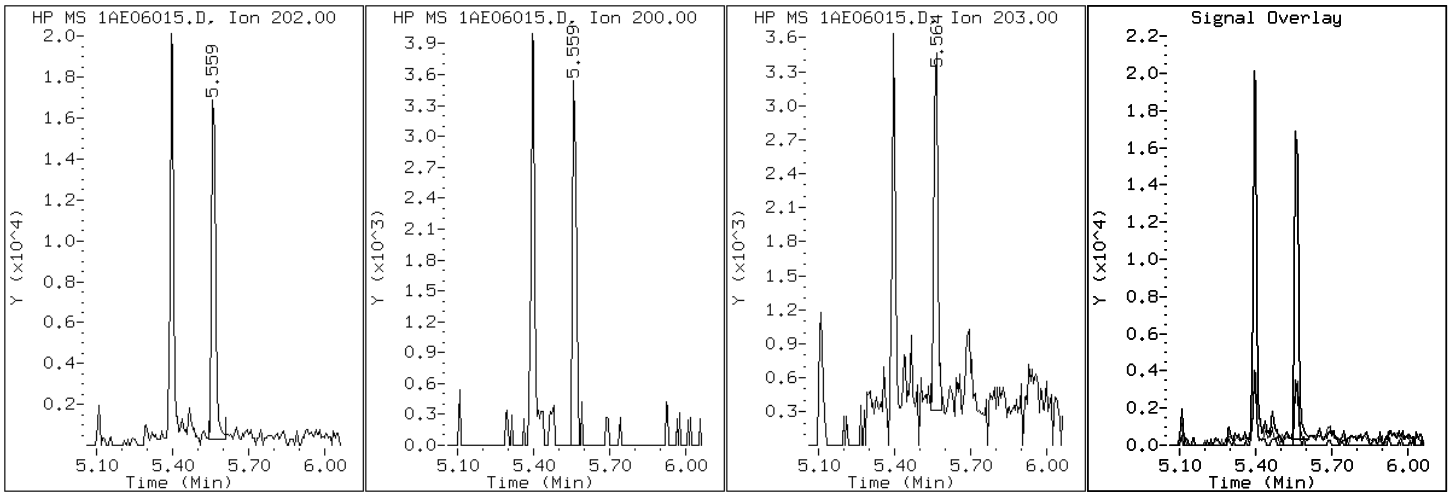
Data File: 1AE06015.D

Date: 06-MAY-2013 14:22

Client ID: CV0728B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06015.D
Inj. Date and Time: 06-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID: CV0728B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

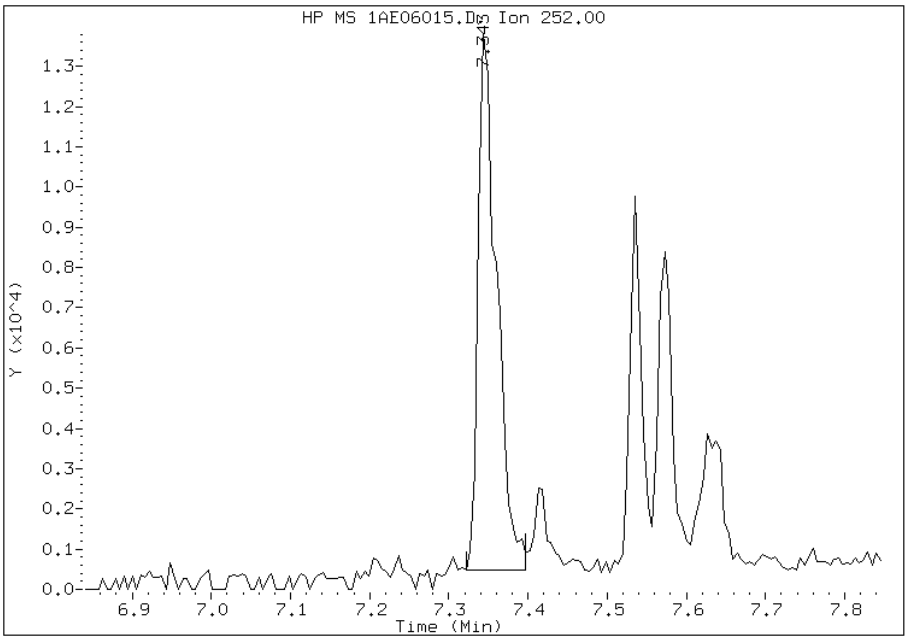
Processing Integration Results

RT: 7.34

Response: 21590

Amount: 1

Conc: 76



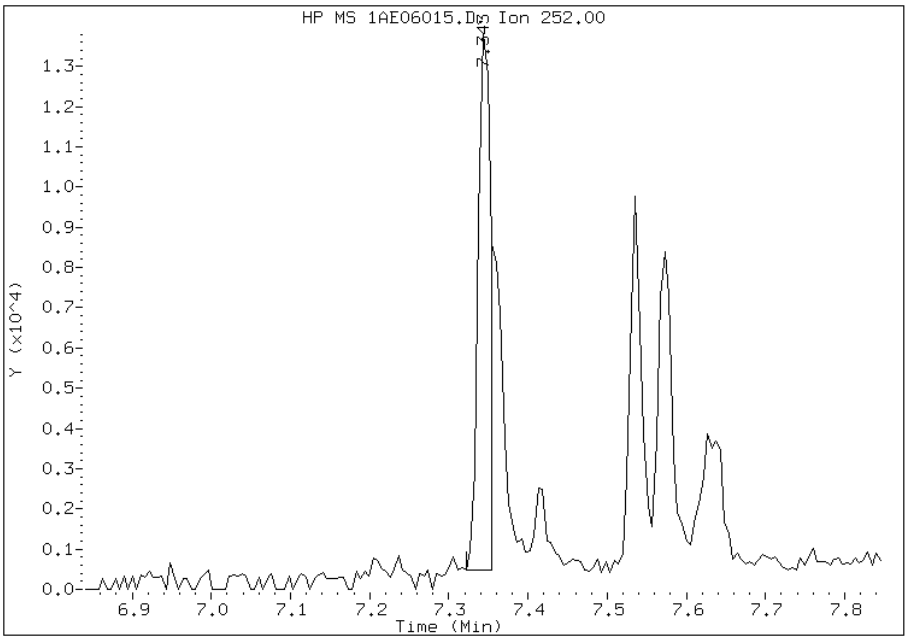
Manual Integration Results

RT: 7.34

Response: 14566

Amount: 1

Conc: 51



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:31
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06015.D
Inj. Date and Time: 06-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID: CV0728B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

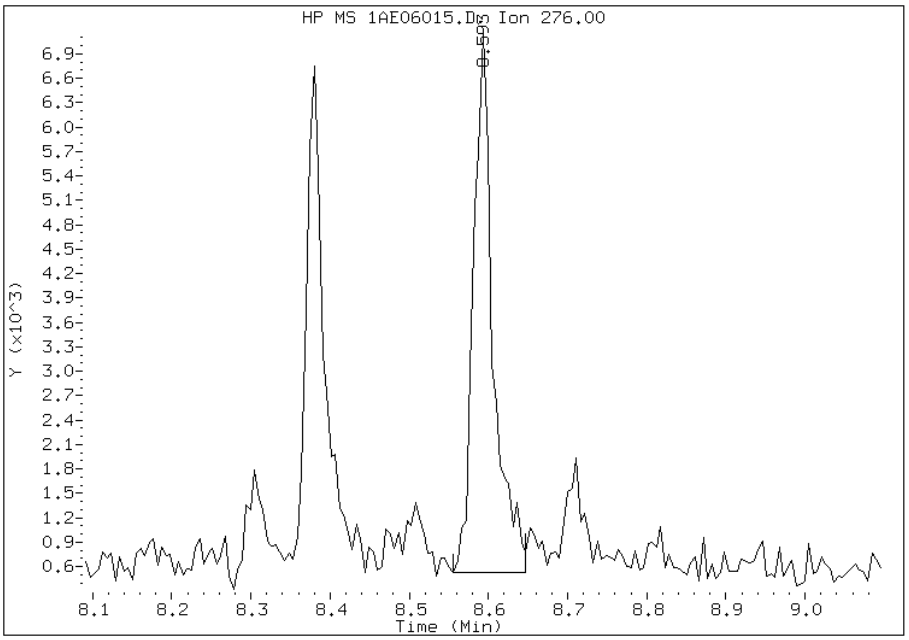
Processing Integration Results

RT: 8.59

Response: 11418

Amount: 0

Conc: 43



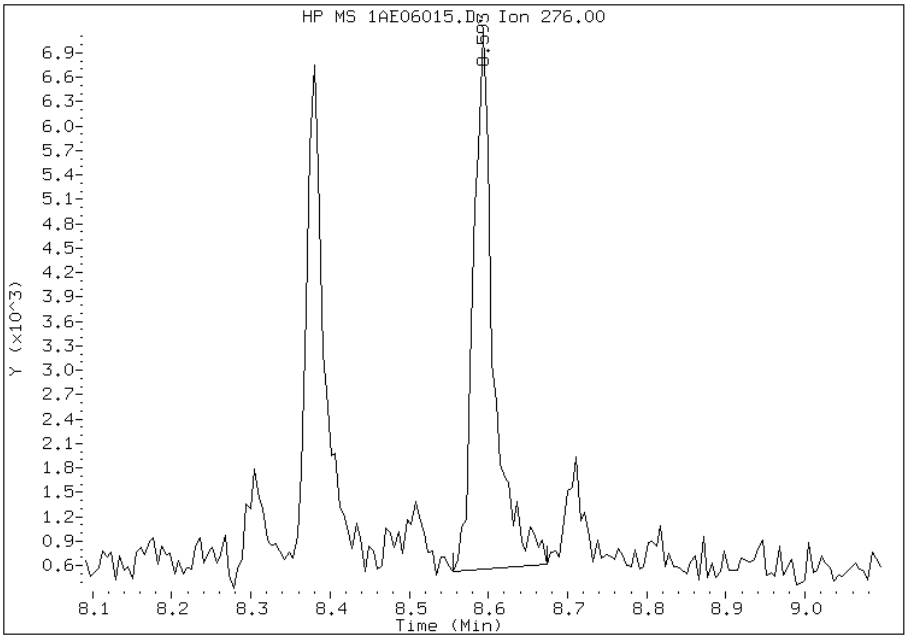
Manual Integration Results

RT: 8.59

Response: 11663

Amount: 0

Conc: 44



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06015.D
Inj. Date and Time: 06-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID: CV0728B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

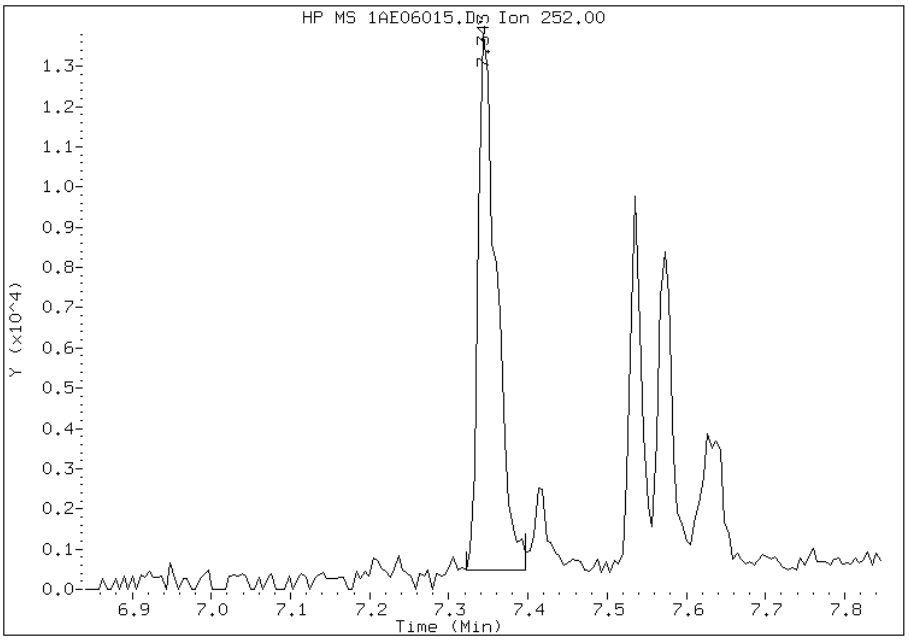
Processing Integration Results

RT: 7.34

Response: 21590

Amount: 1

Conc: 61



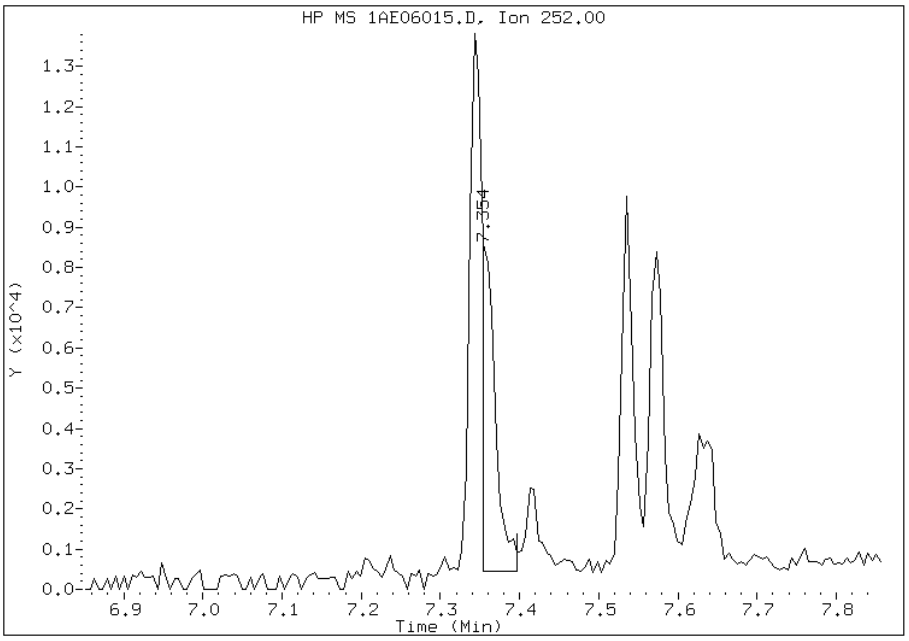
Manual Integration Results

RT: 7.35

Response: 9664

Amount: 0

Conc: 27



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06015.D
Inj. Date and Time: 06-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID: CV0728B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

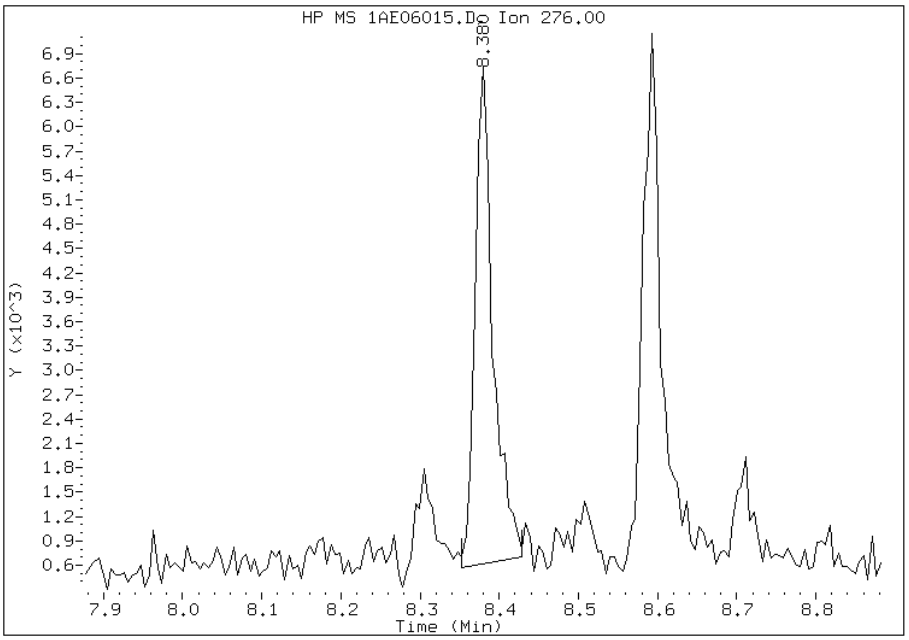
Processing Integration Results

RT: 8.38

Response: 9562

Amount: 0

Conc: 39



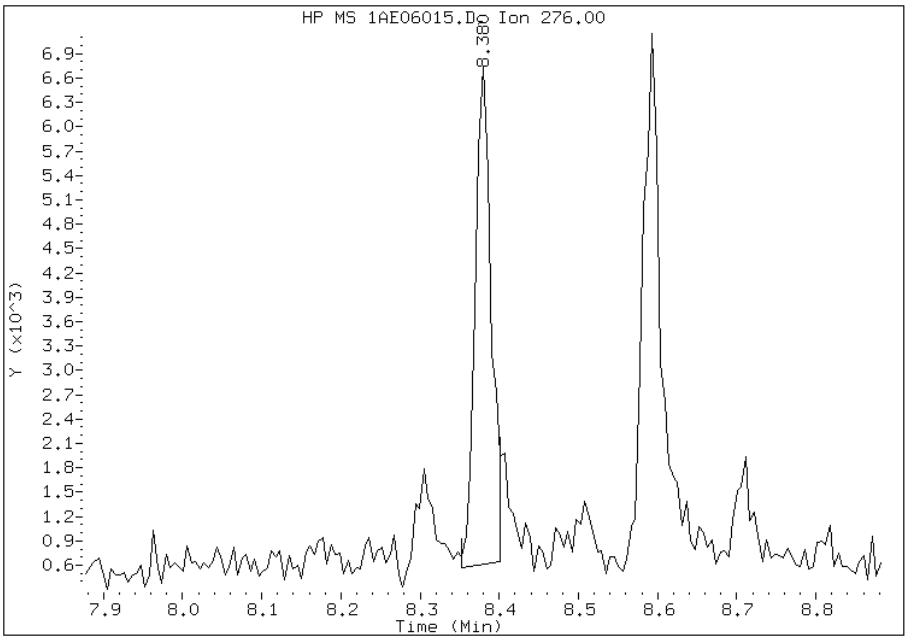
Manual Integration Results

RT: 8.38

Response: 8615

Amount: 0

Conc: 35



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0731A-CS-SP | Lab Sample ID: 680-89896-4

Matrix: Solid | Lab File ID: 1AE06016.D

Analysis Method: 8270C LL | Date Collected: 04/29/2013 13:22

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 14.99(g) | Date Analyzed: 05/06/2013 14:37

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

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

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	J F	490	97
208-96-8	Acenaphthylene	130	J F	190	24
120-12-7	Anthracene	410	F	41	20
56-55-3	Benzo[a]anthracene	860	F	39	19
50-32-8	Benzo[a]pyrene	680	F	51	25
205-99-2	Benzo[b]fluoranthene	840	F	59	30
191-24-2	Benzo[g,h,i]perylene	650	F	97	21
207-08-9	Benzo[k]fluoranthene	440	F	39	17
218-01-9	Chrysene	710	F	44	22
53-70-3	Dibenz(a,h)anthracene	170	F	97	20
206-44-0	Fluoranthene	1800	F	97	19
86-73-7	Fluorene	180	F	97	20
193-39-5	Indeno[1,2,3-cd]pyrene	600	F	97	34
90-12-0	1-Methylnaphthalene	140	J F	190	21
91-57-6	2-Methylnaphthalene	190	F	190	34
91-20-3	Naphthalene	400	F	190	21
85-01-8	Phenanthrene	2200	F	39	19
129-00-0	Pyrene	1700	F	97	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06016.D
Lab Smp Id: 680-89896-A-4-A Client Smp ID: CV0731A-CS-SP
Inj Date : 06-MAY-2013 14:37
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-4-a
Misc Info : 680-89896-A-4-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 16
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	17.620	% 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)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.548	2.544	(1.000)	1389028	40.0000	
*	6 Acenaphthene-d10	164	3.574	3.575	(1.000)	708578	40.0000	
*	10 Phenanthrene-d10	188	4.525	4.521	(1.000)	1138418	40.0000	
$	14 o-Terphenyl	230	4.819	4.820	(1.065)	22518	1.38205	447.6716
*	18 Chrysene-d12	240	6.539	6.535	(1.000)	839866	40.0000	
*	23 Perylene-d12	264	7.629	7.630	(1.000)	1098635	40.0000	
	2 Naphthalene	128	2.554	2.555	(1.002)	40329	1.23291	399.3633
	3 2-Methylnaphthalene	141	2.960	2.961	(1.161)	9575	0.57598	186.5703
	4 1-Methylnaphthalene	142	3.018	3.014	(1.184)	8362	0.41966	135.9363
	5 Acenaphthylene	152	3.483	3.484	(0.975)	13224	0.39717	128.6519
	7 Acenaphthene	154	3.590	3.591	(1.004)	5742	0.30030	97.2728
	9 Fluorene	166	3.905	3.901	(1.093)	12022	0.55171	178.7101
	11 Phenanthrene	178	4.535	4.537	(1.002)	193556	6.86286	2223.0165
	12 Anthracene	178	4.568	4.569	(1.009)	37694	1.25466	406.4101

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.701	4.702	(1.039)	29031	1.07474	348.1278
15 Fluoranthene	202	5.401	5.397	(1.194)	179249	5.52461	1789.5311
16 Pyrene	202	5.561	5.562	(0.851)	141447	5.23946	1697.1634
17 Benzo(a)anthracene	228	6.528	6.524	(0.998)	62731	2.65766	860.8682
19 Chrysene	228	6.555	6.551	(1.002)	57968	2.18271	707.0237
20 Benzo(b)fluoranthene	252	7.345	7.347	(0.963)	74868	2.57821	835.1324(M)
21 Benzo(k)fluoranthene	252	7.356	7.368	(0.964)	49130	1.36377	441.7525(M)
22 Benzo(a)pyrene	252	7.570	7.576	(0.992)	62900	2.10913	683.1899
24 Indeno(1,2,3-cd)pyrene	276	8.376	8.388	(1.098)	46350	1.85520	600.9360(M)
25 Dibenzo(a,h)anthracene	278	8.403	8.414	(1.102)	13301	0.51937	168.2339
26 Benzo(g,h,i)perylene	276	8.590	8.602	(1.126)	54177	2.01655	653.1993

QC Flag Legend

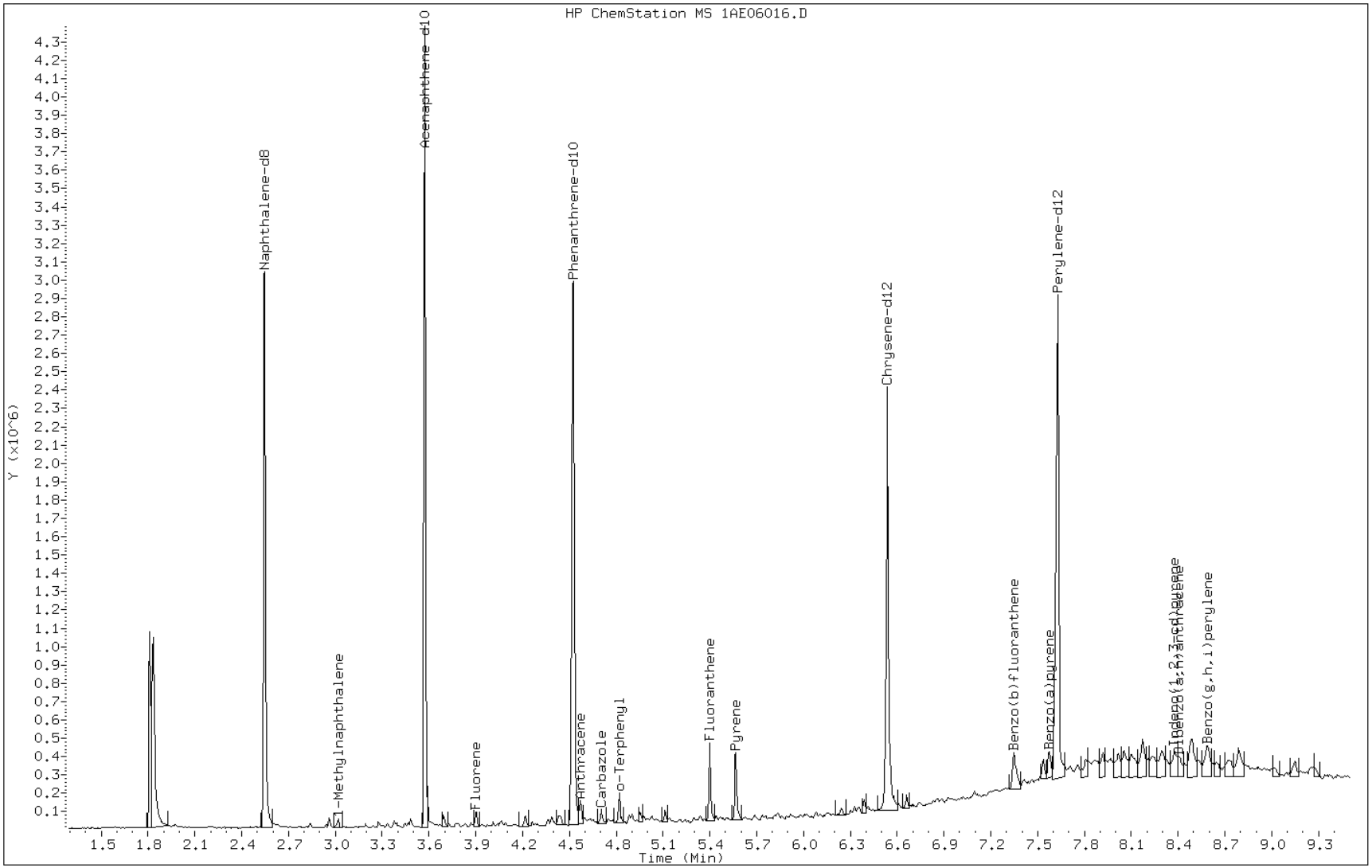
M - Compound response manually integrated.

Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC



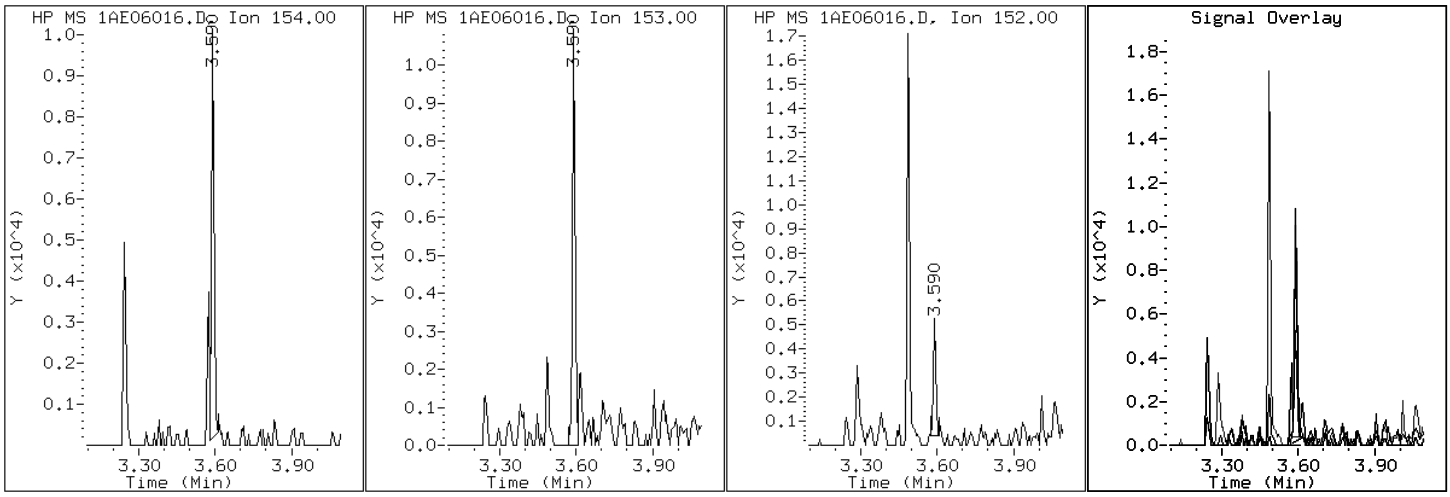
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

7 Acenaphthene



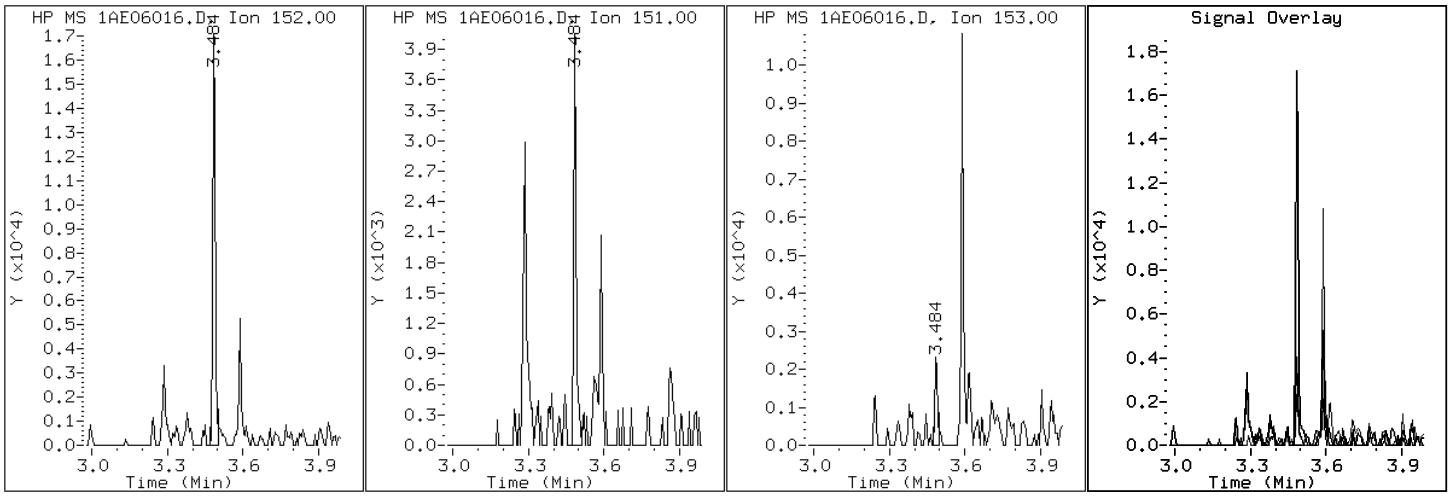
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

5 Acenaphthylene



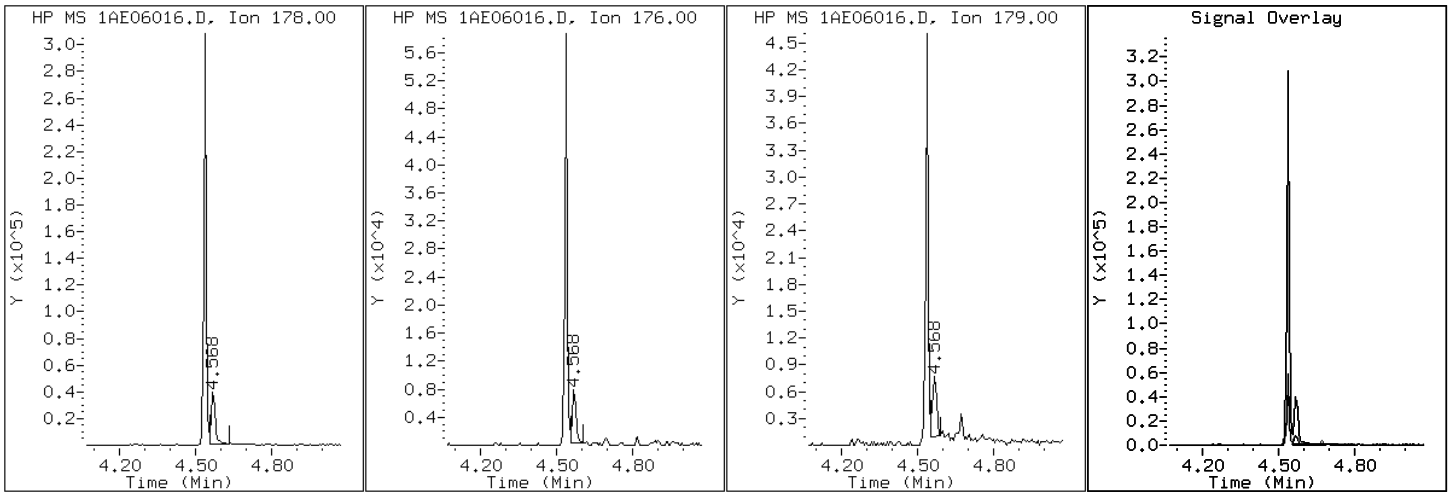
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

12 Anthracene



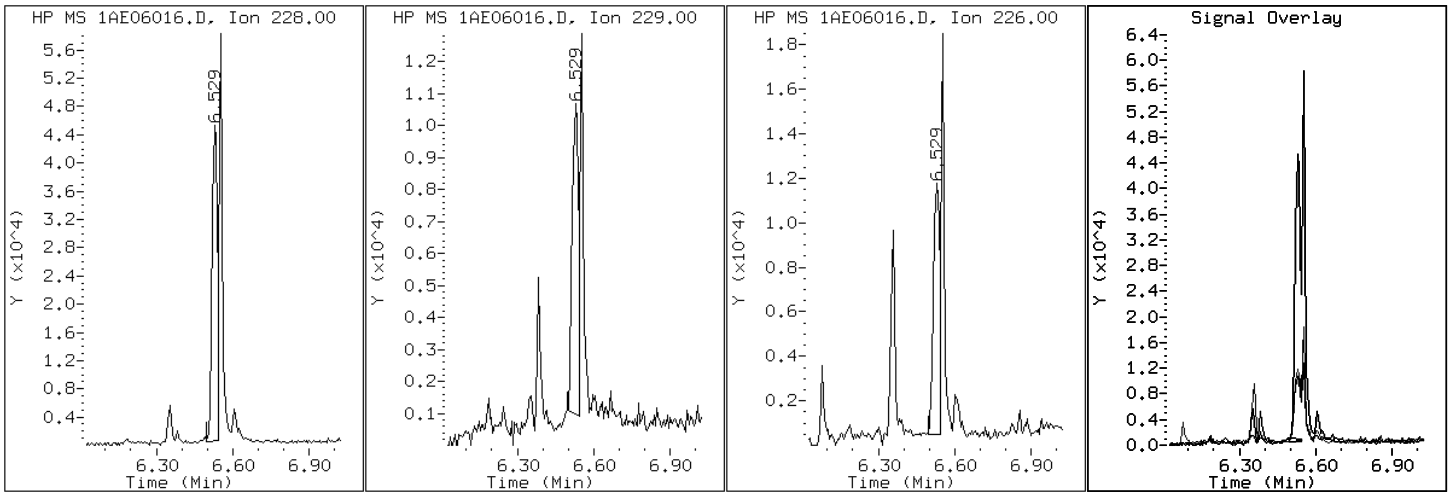
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

17 Benzo(a)anthracene



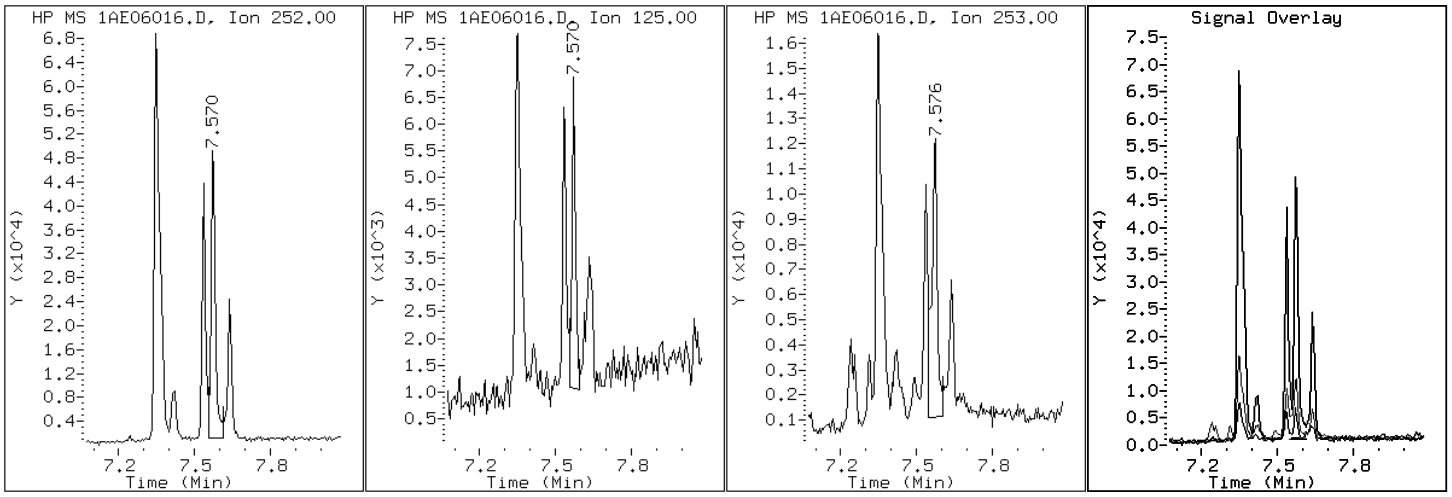
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

22 Benzo(a)pyrene



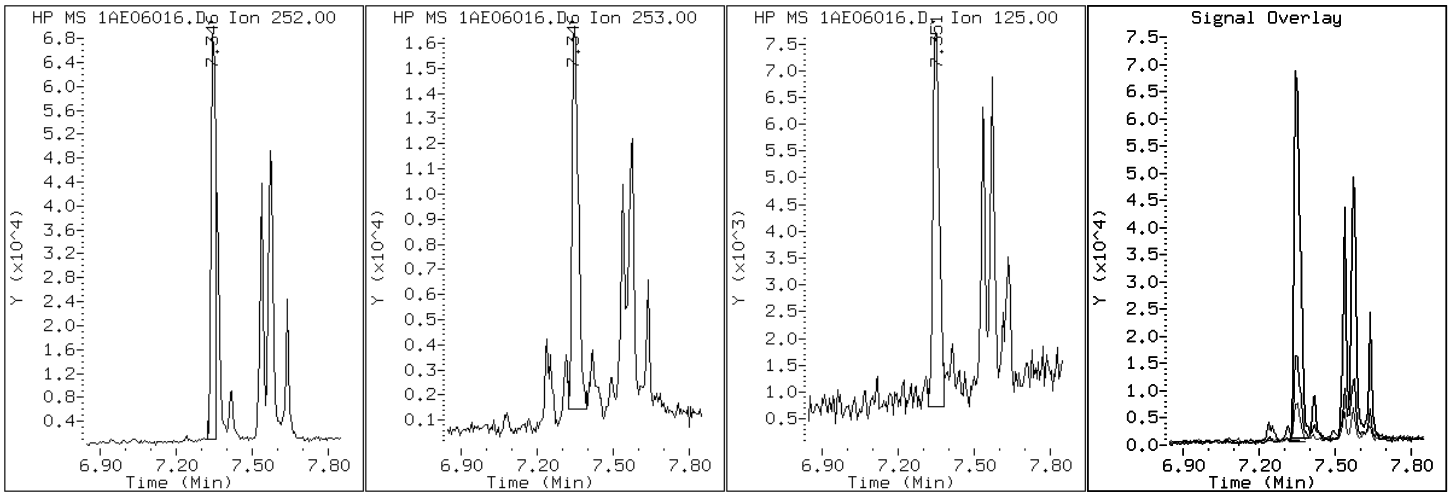
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

20 Benzo(b)fluoranthene



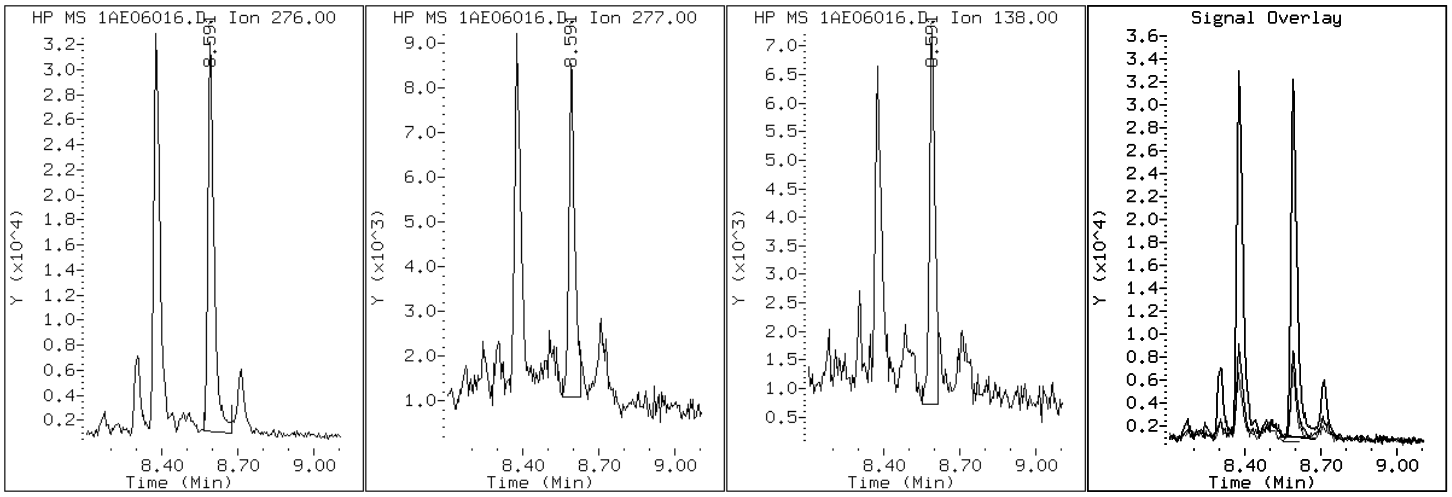
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

26 Benzo(g,h,i)perylene



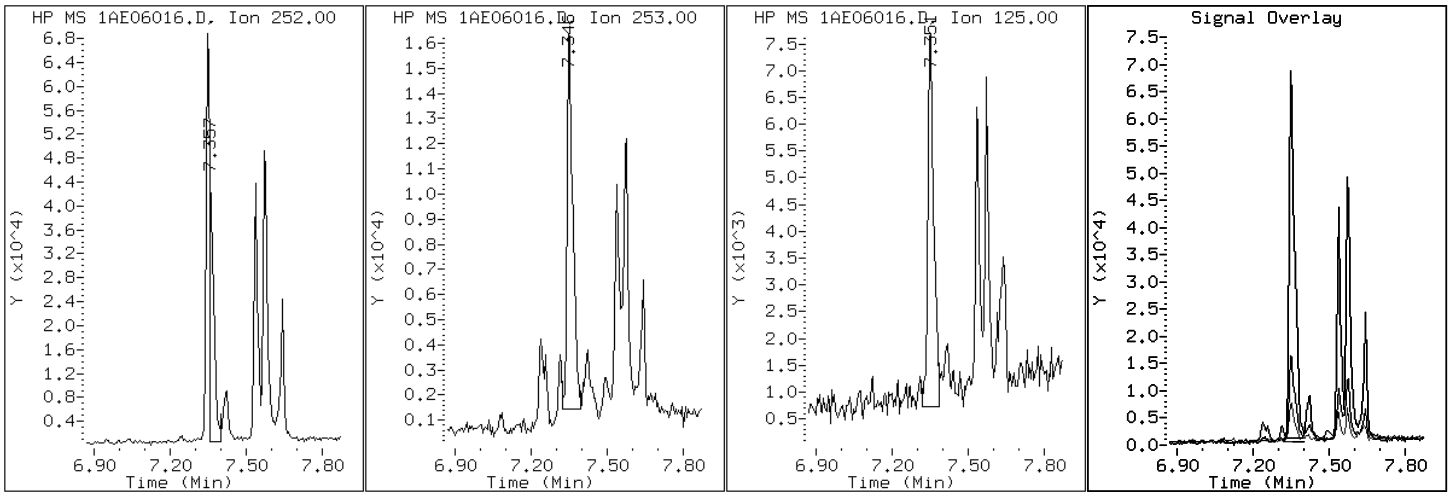
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

21 Benzo(k)fluoranthene



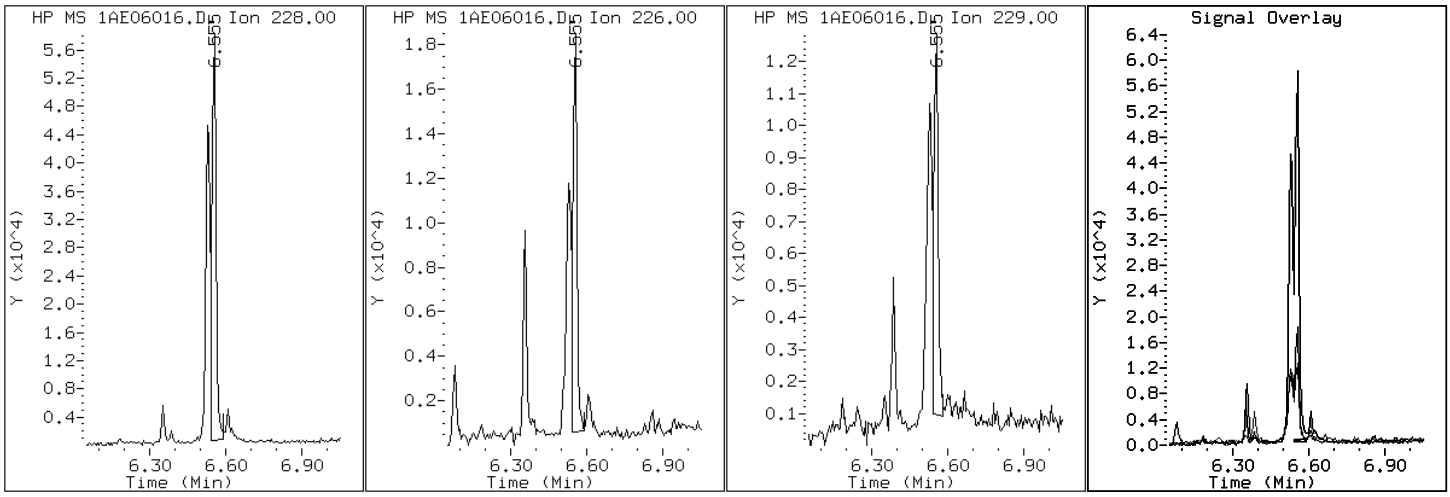
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

19 Chrysene



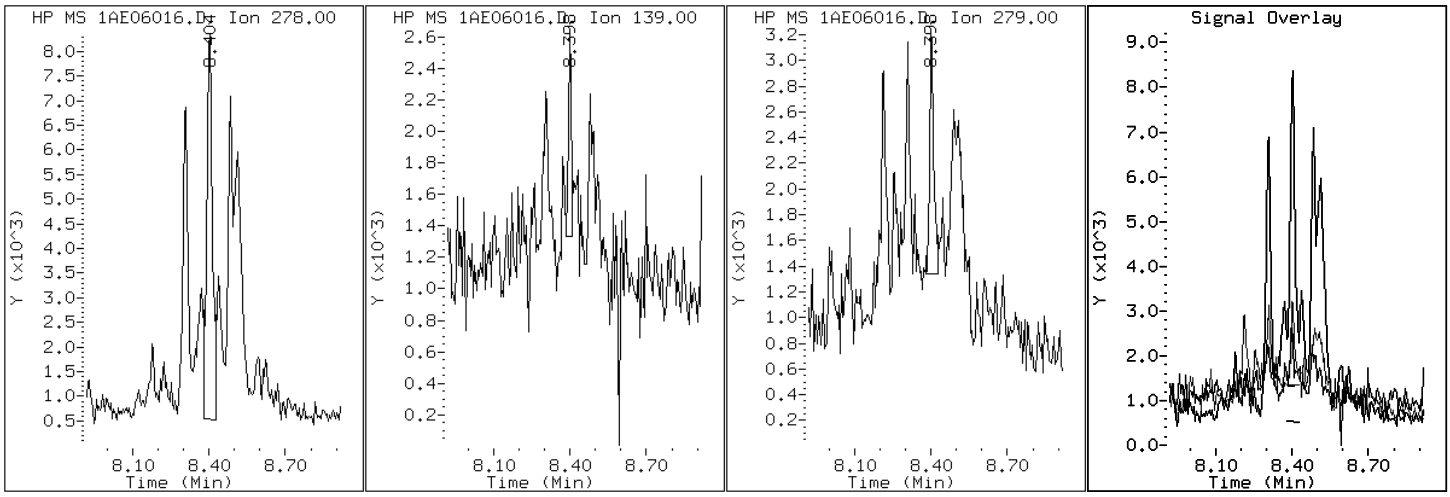
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

25 Dibenzo(a,h)anthracene



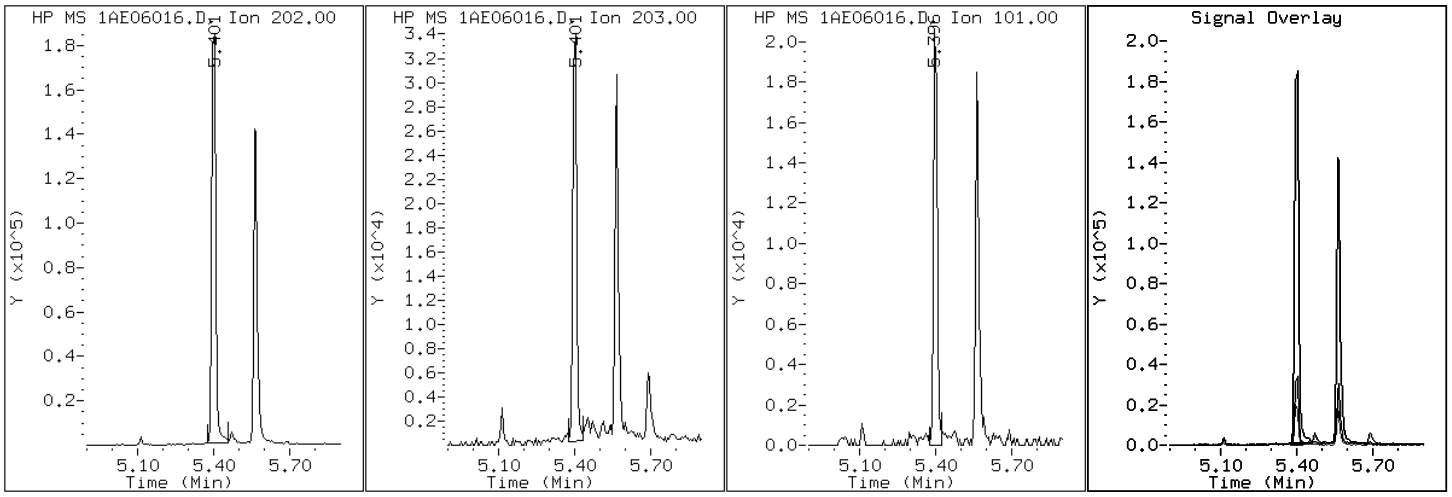
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

15 Fluoranthene



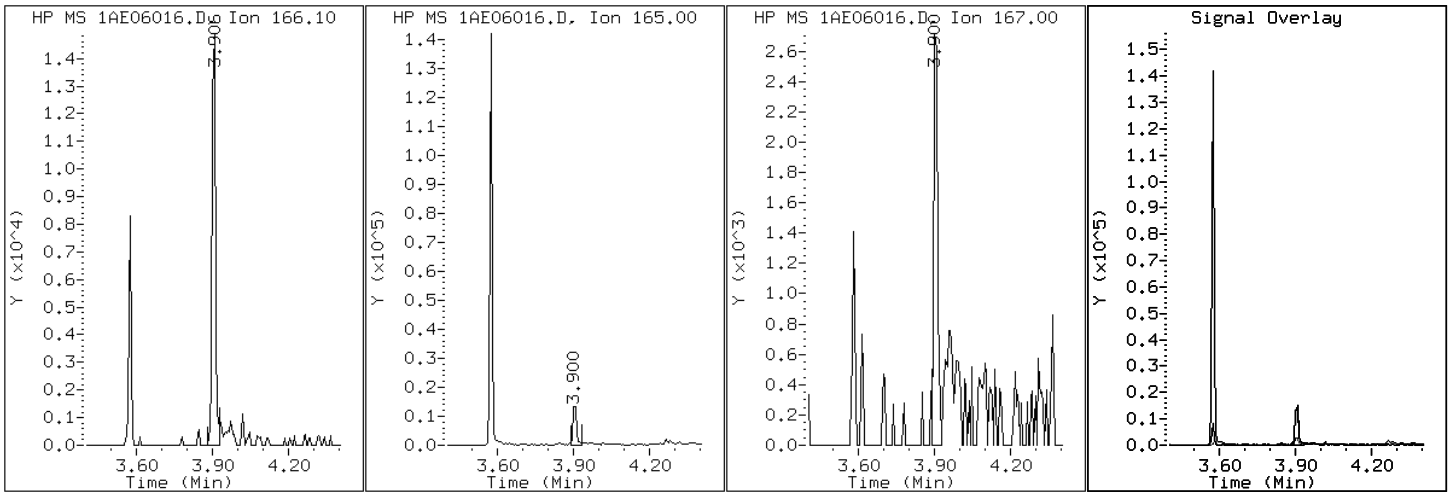
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

9 Fluorene



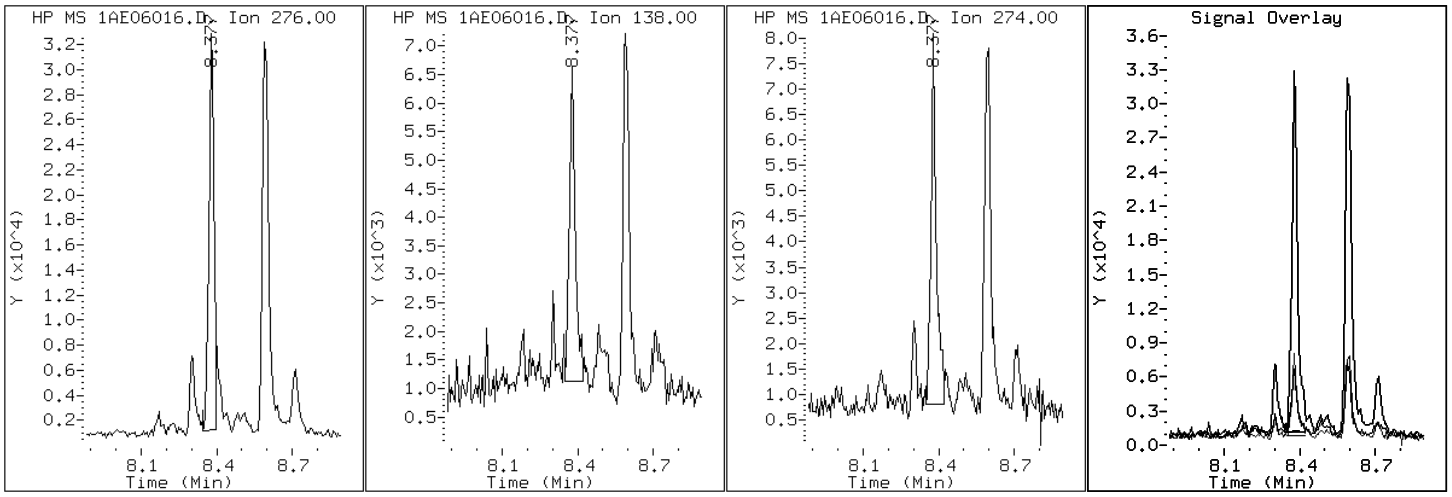
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

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



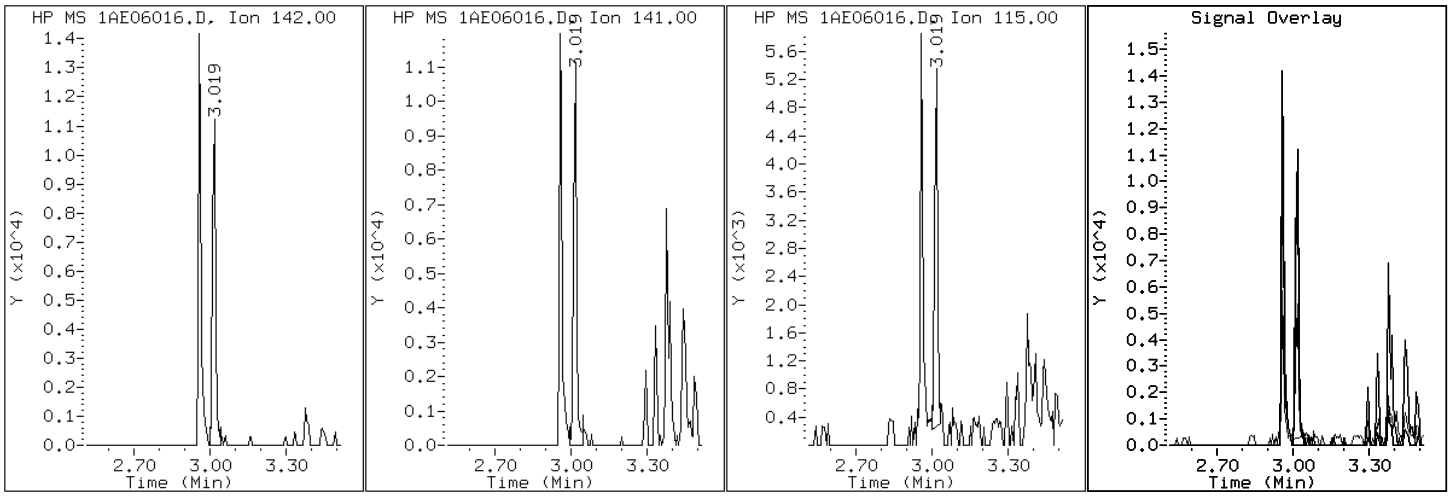
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

4 1-Methylnaphthalene



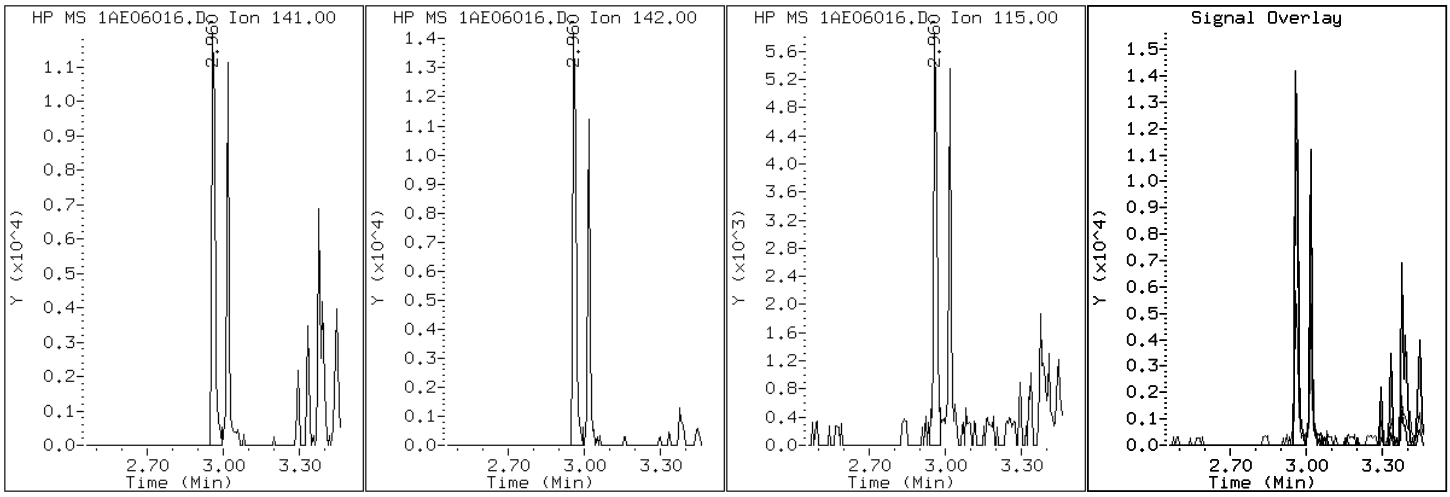
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

3 2-Methylnaphthalene



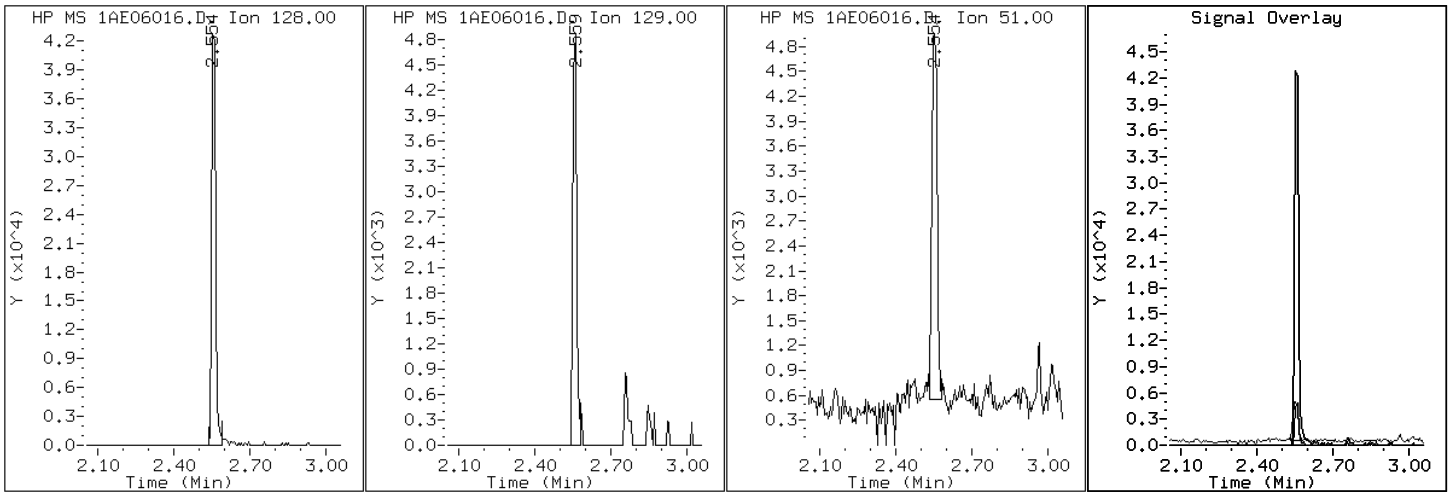
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

2 Naphthalene



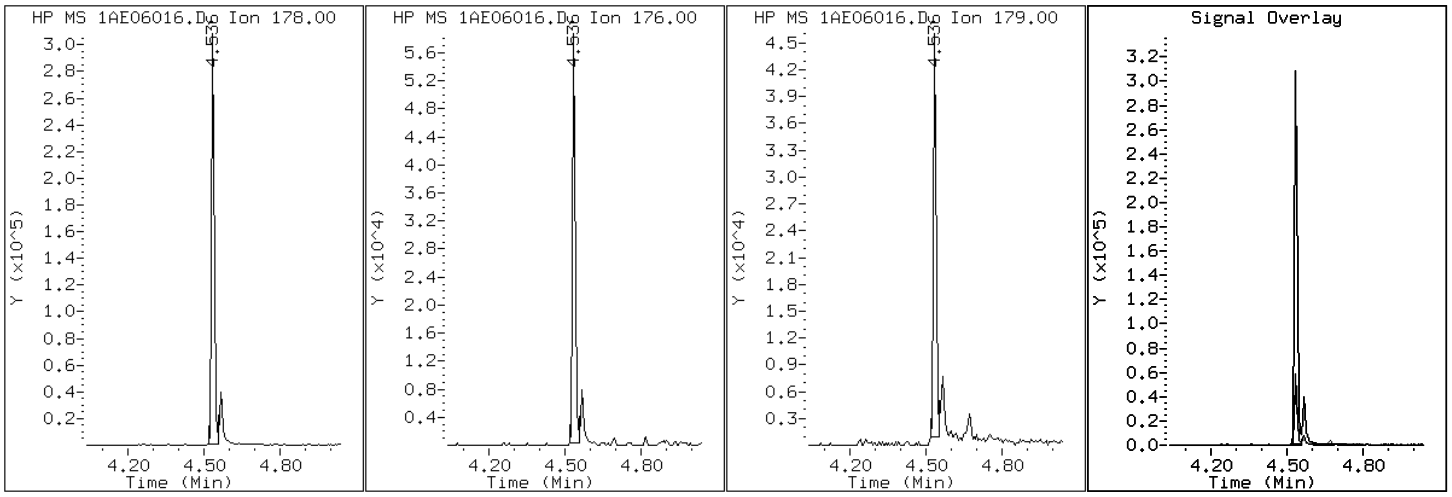
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

11 Phenanthrene



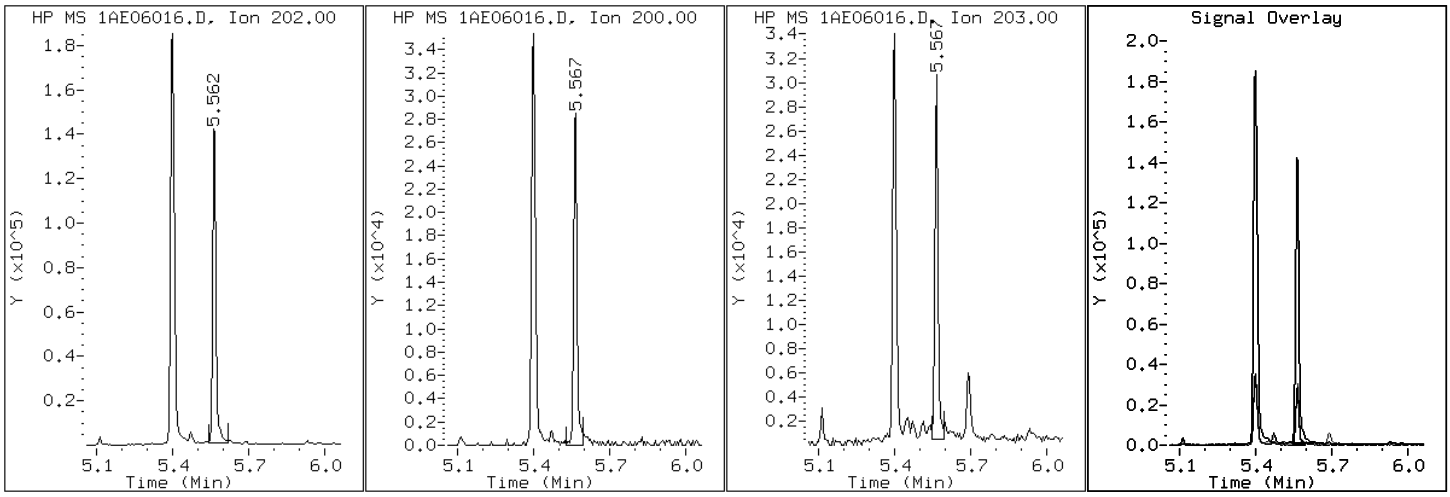
Data File: 1AE06016.D

Date: 06-MAY-2013 14:37

Client ID: CV0731A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06016.D
Inj. Date and Time: 06-MAY-2013 14:37
Instrument ID: BSMA5973.i
Client ID: CV0731A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

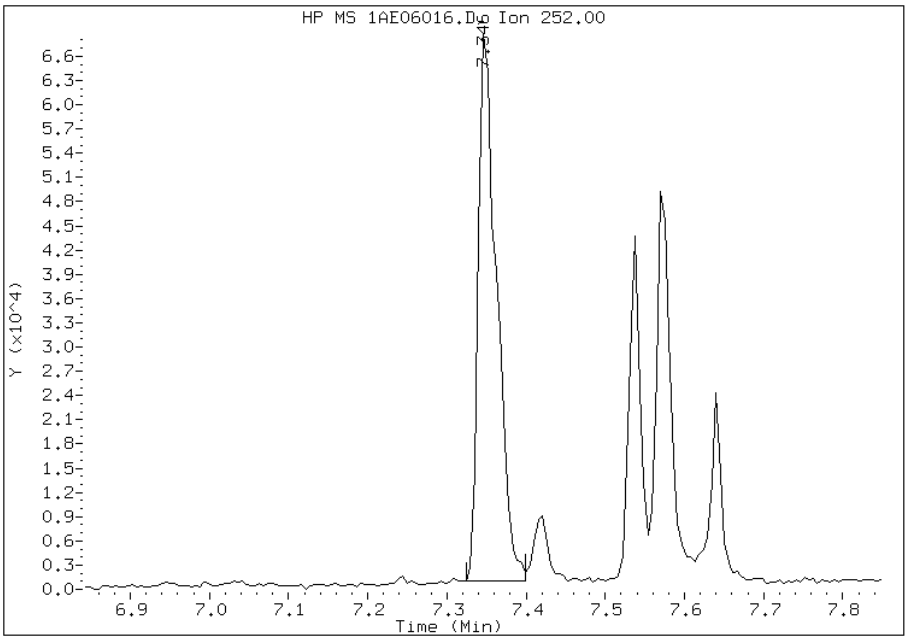
Processing Integration Results

RT: 7.35

Response: 108815

Amount: 4

Conc: 1214



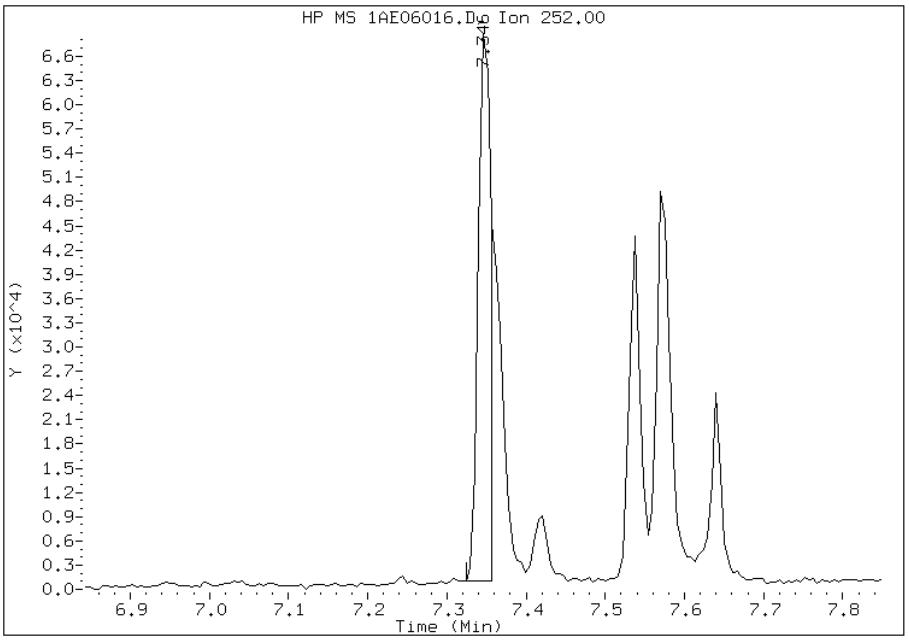
Manual Integration Results

RT: 7.35

Response: 74868

Amount: 3

Conc: 835



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06016.D
Inj. Date and Time: 06-MAY-2013 14:37
Instrument ID: BSMA5973.i
Client ID: CV0731A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

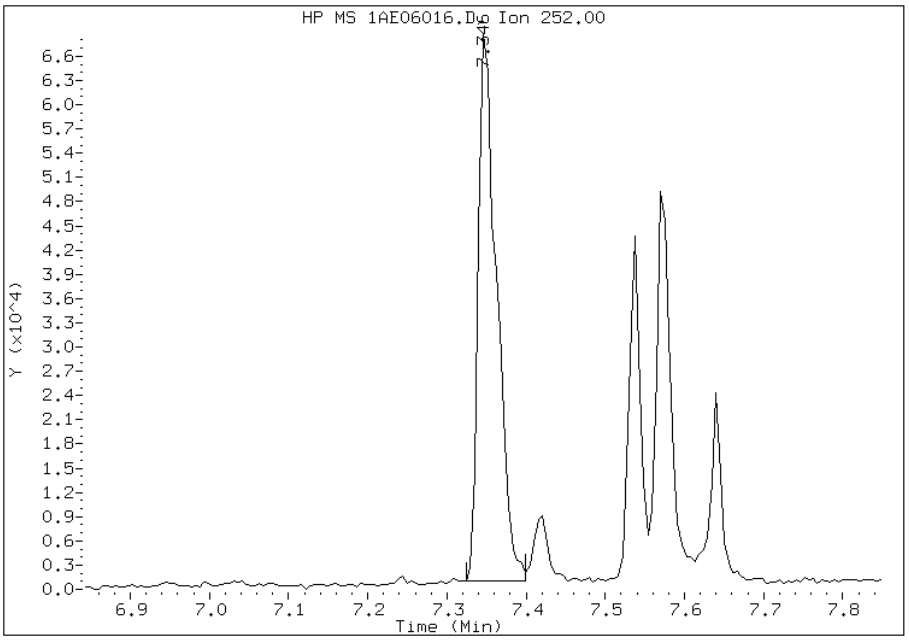
Processing Integration Results

RT: 7.35

Response: 108815

Amount: 3

Conc: 978



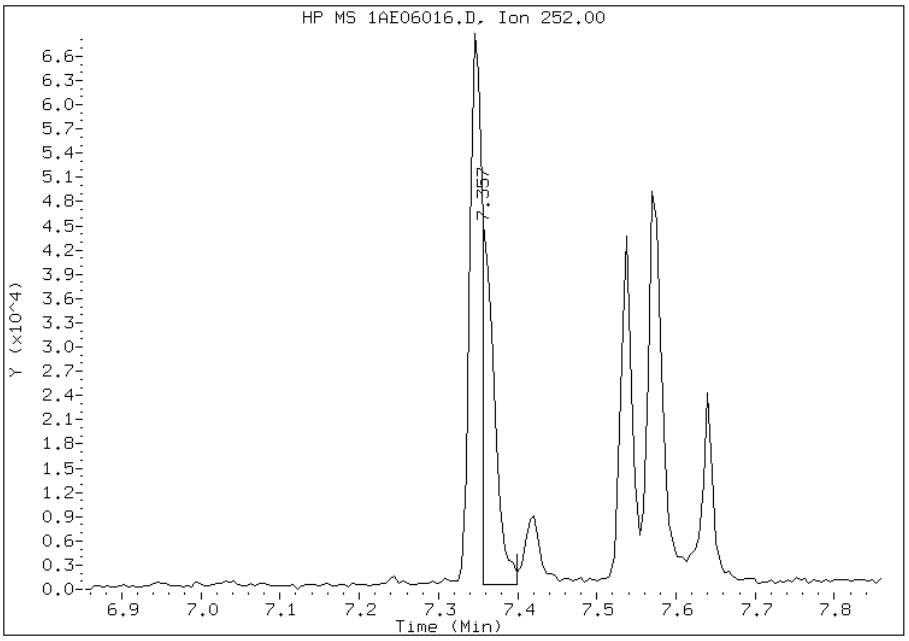
Manual Integration Results

RT: 7.36

Response: 49130

Amount: 1

Conc: 442



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06016.D
Inj. Date and Time: 06-MAY-2013 14:37
Instrument ID: BSMA5973.i
Client ID: CV0731A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

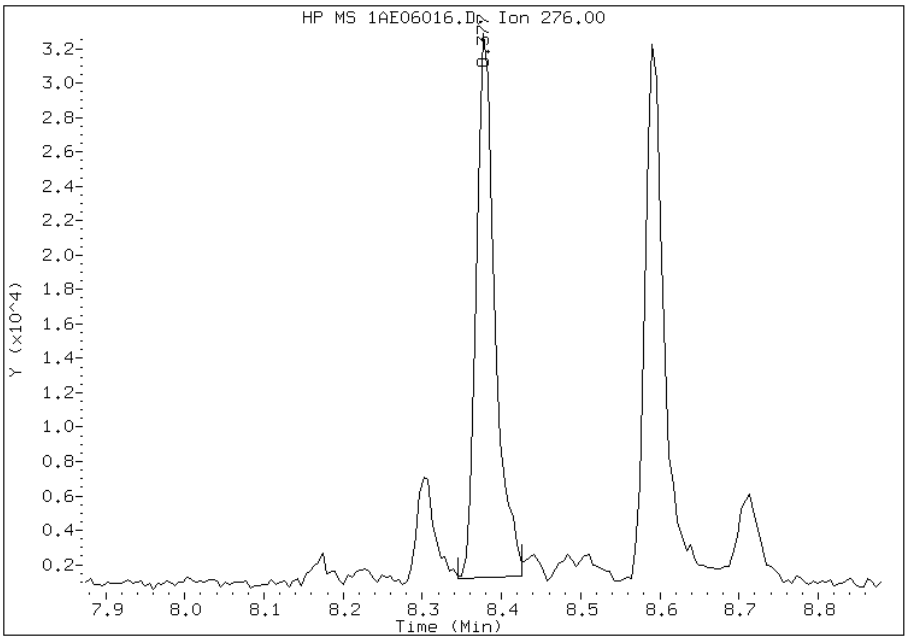
Processing Integration Results

RT: 8.38

Response: 51390

Amount: 2

Conc: 666



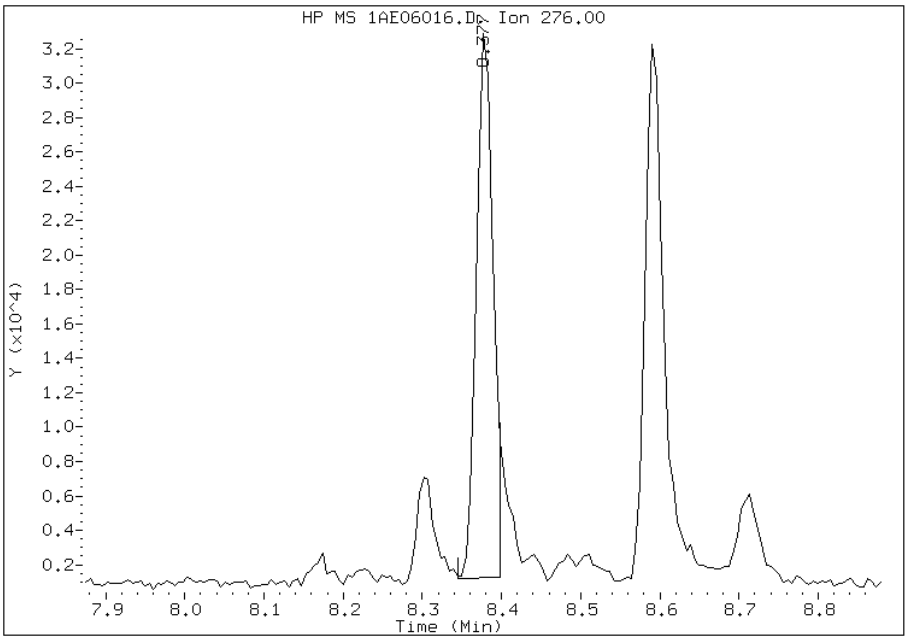
Manual Integration Results

RT: 8.38

Response: 46350

Amount: 2

Conc: 601



Manually Integrated By: cantins
Modification Date: 07-May-2013 17:33
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0731B-CS-SP | Lab Sample ID: 680-89896-5

Matrix: Solid | Lab File ID: 1AE06029.D

Analysis Method: 8270C LL | Date Collected: 04/29/2013 13:33

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 15.00(g) | Date Analyzed: 05/06/2013 17:57

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

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

% Moisture: 20.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	11	J	50	6.3
120-12-7	Anthracene	14		11	5.3
56-55-3	Benzo[a]anthracene	68		10	4.9
50-32-8	Benzo[a]pyrene	46		13	6.5
205-99-2	Benzo[b]fluoranthene	79		15	7.7
191-24-2	Benzo[g,h,i]perylene	47		25	5.5
207-08-9	Benzo[k]fluoranthene	29		10	4.5
218-01-9	Chrysene	78		11	5.6
53-70-3	Dibenz(a,h)anthracene	13	J	25	5.1
206-44-0	Fluoranthene	67		25	5.0
86-73-7	Fluorene	6.4	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	39		25	8.9
90-12-0	1-Methylnaphthalene	81		50	5.5
91-57-6	2-Methylnaphthalene	120		50	8.9
91-20-3	Naphthalene	81		50	5.5
85-01-8	Phenanthrene	87		10	4.9
129-00-0	Pyrene	72		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	48		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06029.D
Lab Smp Id: 680-89896-A-5-A Client Smp ID: CV0731B-CS-SP
Inj Date : 06-MAY-2013 17:57
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-5-a
Misc Info : 680-89896-A-5-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	20.268	% 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	2.548	2.544	(1.000)	1403505	40.0000	
*	6 Acenaphthene-d10	164	3.574	3.575	(1.000)	727815	40.0000	
*	10 Phenanthrene-d10	188	4.525	4.521	(1.000)	1093529	40.0000	
$	14 o-Terphenyl	230	4.824	4.820	(1.066)	75896	4.84934	405.4685
*	18 Chrysene-d12	240	6.544	6.535	(1.000)	889690	40.0000	
*	23 Perylene-d12	264	7.639	7.630	(1.000)	1178078	40.0000	
	2 Naphthalene	128	2.559	2.555	(1.004)	32113	0.97161	81.2392
	3 2-Methylnaphthalene	141	2.965	2.961	(1.163)	24081	1.43363	119.8705
	4 1-Methylnaphthalene	142	3.018	3.014	(1.184)	19607	0.97386	81.4274
	5 Acenaphthylene	152	3.488	3.484	(0.976)	4362	0.12755	10.6645
	9 Fluorene	166	3.905	3.901	(1.093)	1704	0.07613	6.3656(Q)
	11 Phenanthrene	178	4.541	4.537	(1.004)	28344	1.04624	87.4793
	12 Anthracene	178	4.573	4.569	(1.011)	4907	0.17004	14.2172
	13 Carbazole	167	4.712	4.702	(1.041)	4184	0.16125	13.4827

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.401	5.397	(1.194)	24790	0.79541	66.5070
16 Pyrene	202	5.566	5.562	(0.851)	24489	0.85632	71.5993
17 Benzo(a)anthracene	228	6.539	6.524	(0.999)	20353	0.81399	68.0598
19 Chrysene	228	6.560	6.551	(1.002)	26225	0.93217	77.9416
20 Benzo(b)fluoranthene	252	7.356	7.347	(0.963)	29430	0.94513	79.0252(M)
21 Benzo(k)fluoranthene	252	7.367	7.368	(0.964)	13301	0.34432	28.7894(QM)
22 Benzo(a)pyrene	252	7.580	7.576	(0.992)	17567	0.54933	45.9308
24 Indeno(1,2,3-cd)pyrene	276	8.387	8.388	(1.098)	12655	0.47237	39.4963(M)
25 Dibenzo(a,h)anthracene	278	8.414	8.414	(1.101)	4308	0.15687	13.1166(H)
26 Benzo(g,h,i)perylene	276	8.606	8.602	(1.127)	16180	0.56163	46.9597

QC Flag Legend

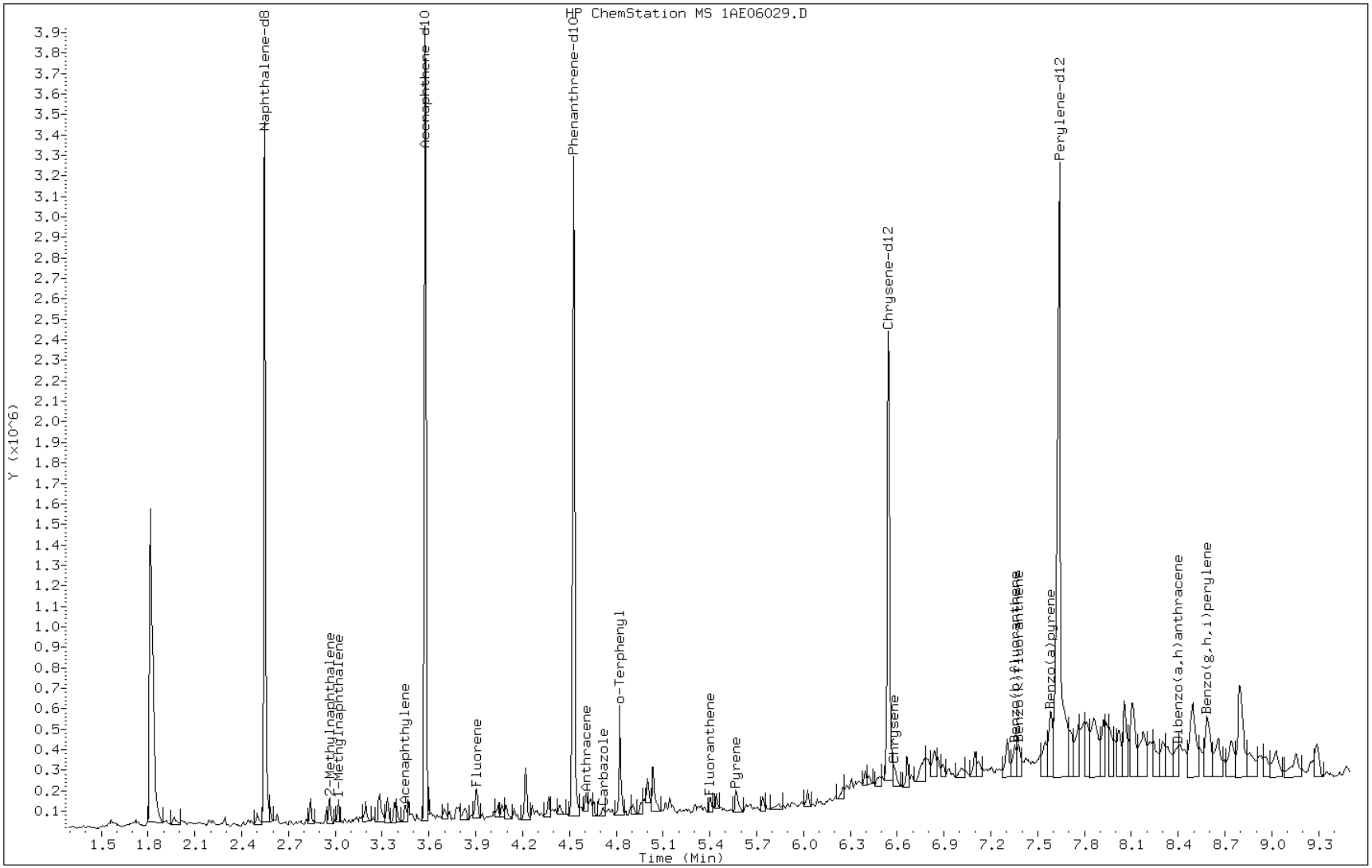
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC



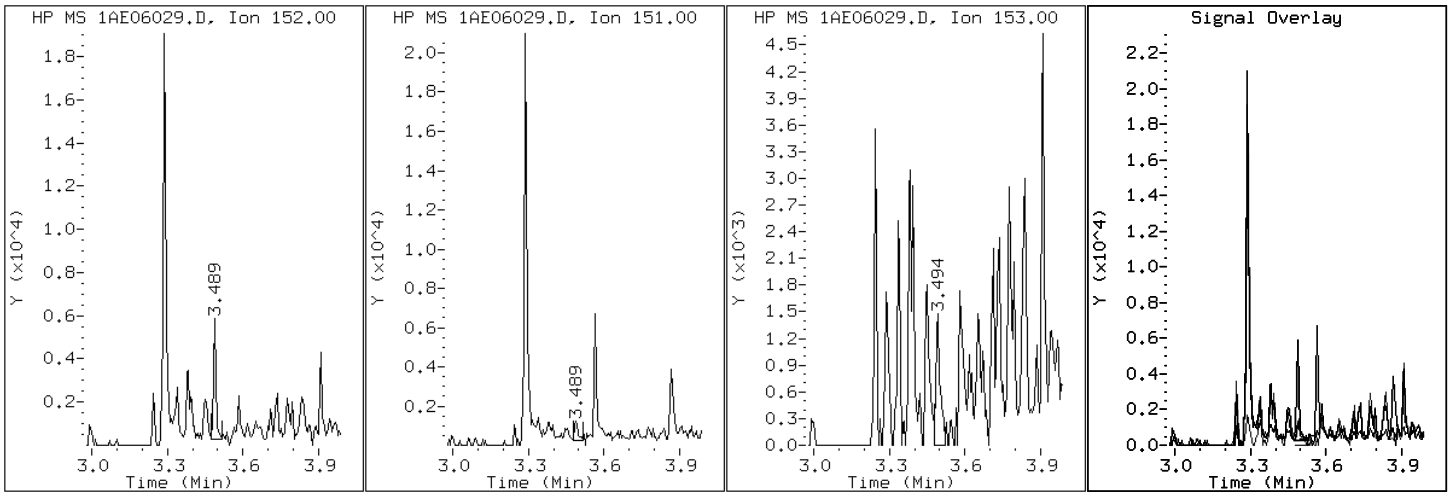
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

5 Acenaphthylene



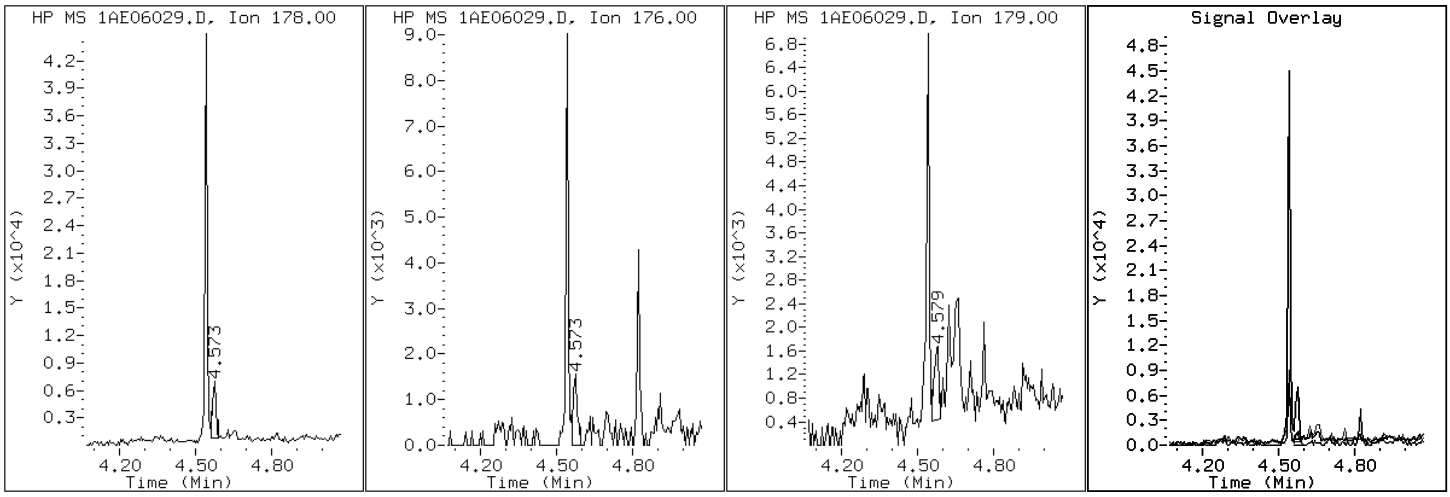
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

12 Anthracene



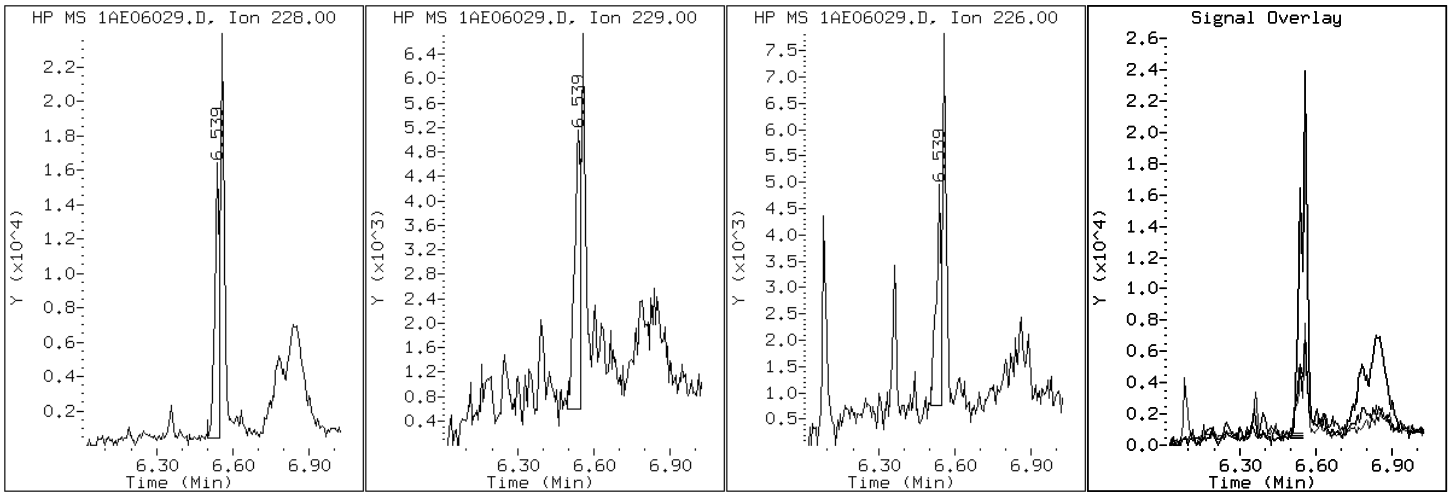
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

17 Benzo(a)anthracene



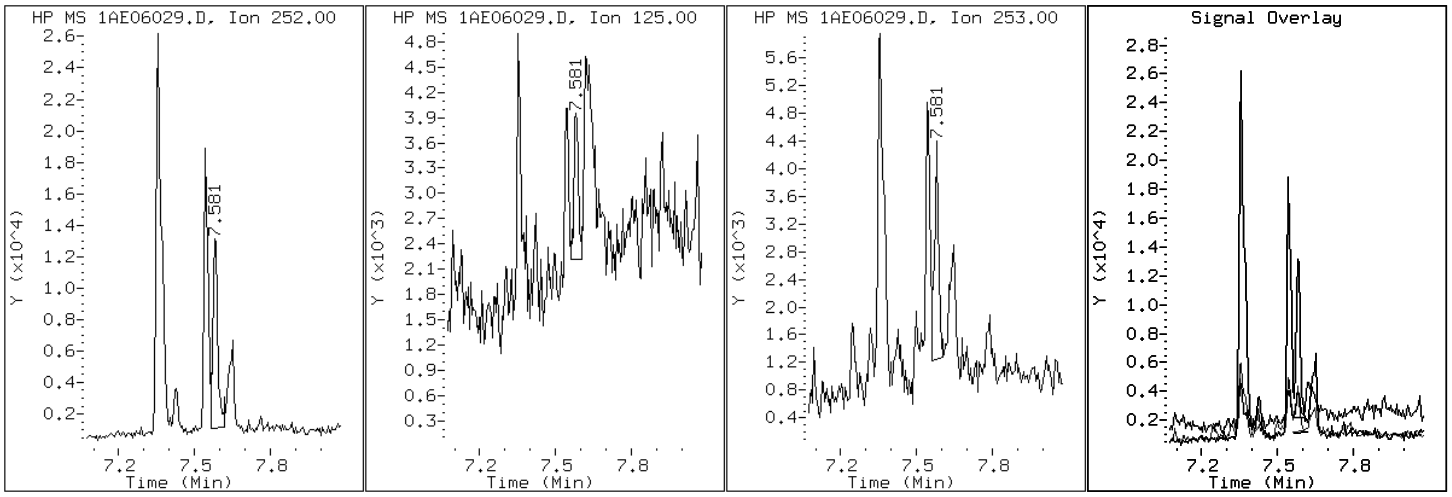
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

22 Benzo(a)pyrene



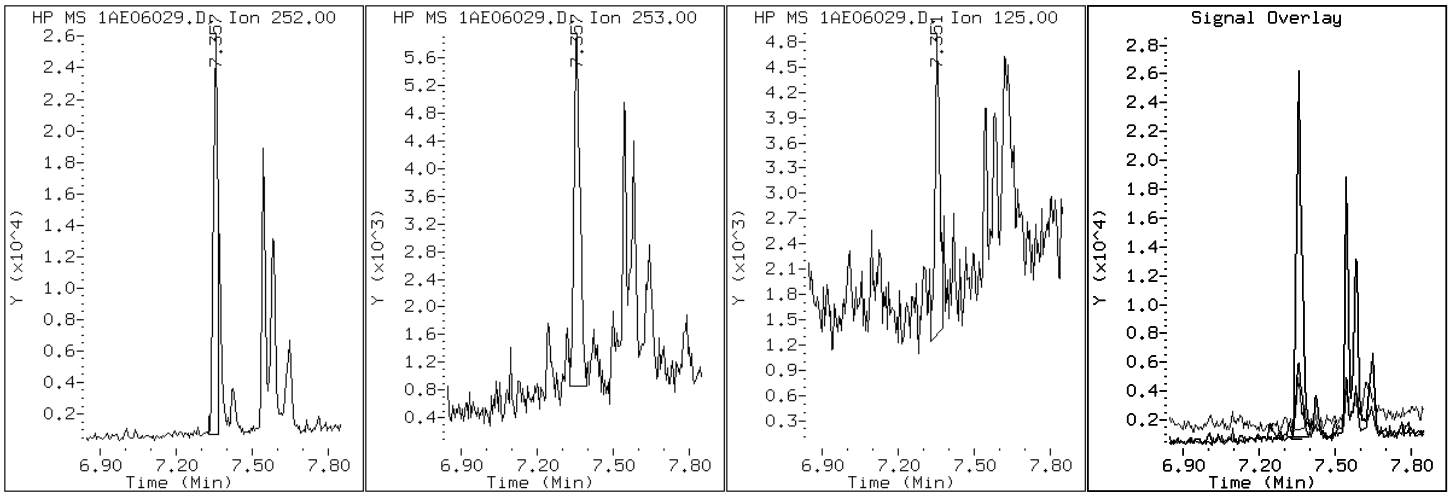
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

20 Benzo(b)fluoranthene



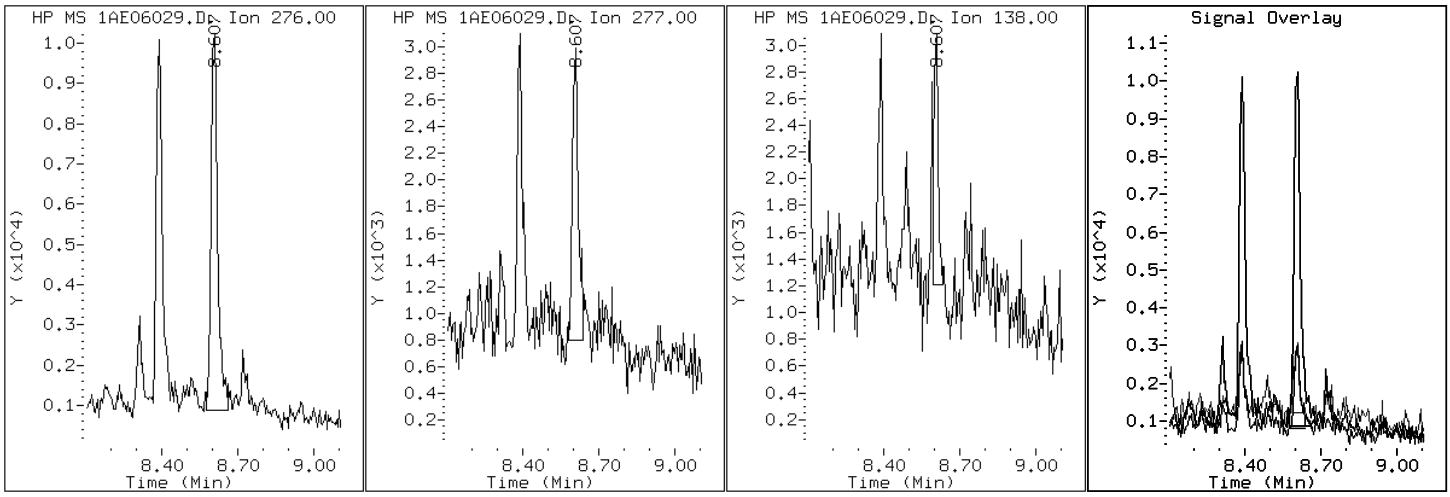
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

26 Benzo(g,h,i)perylene



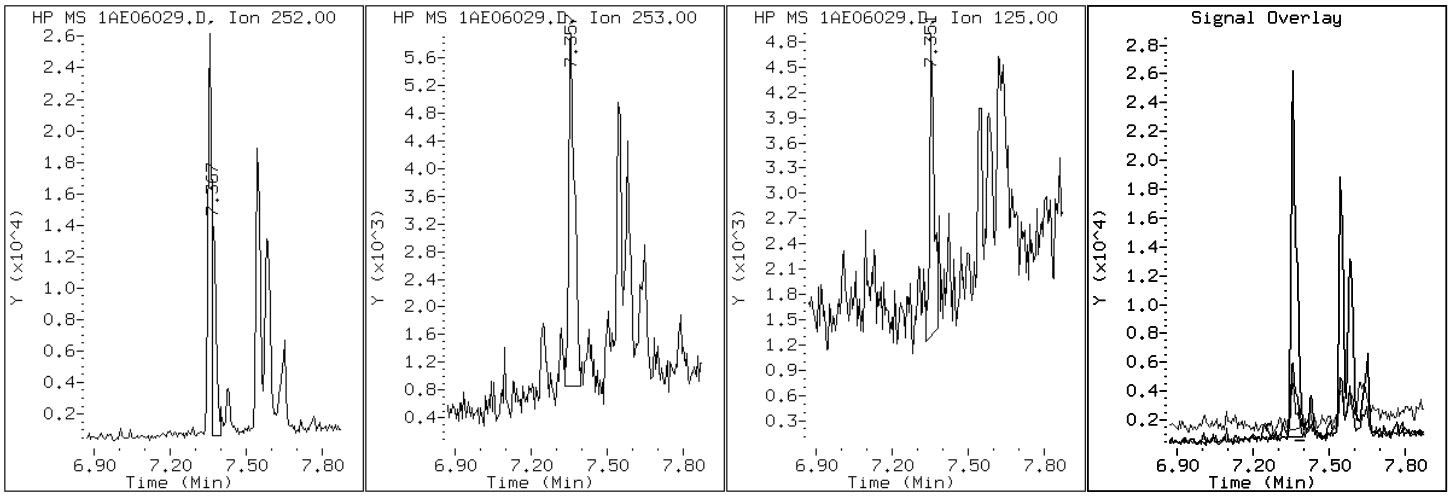
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



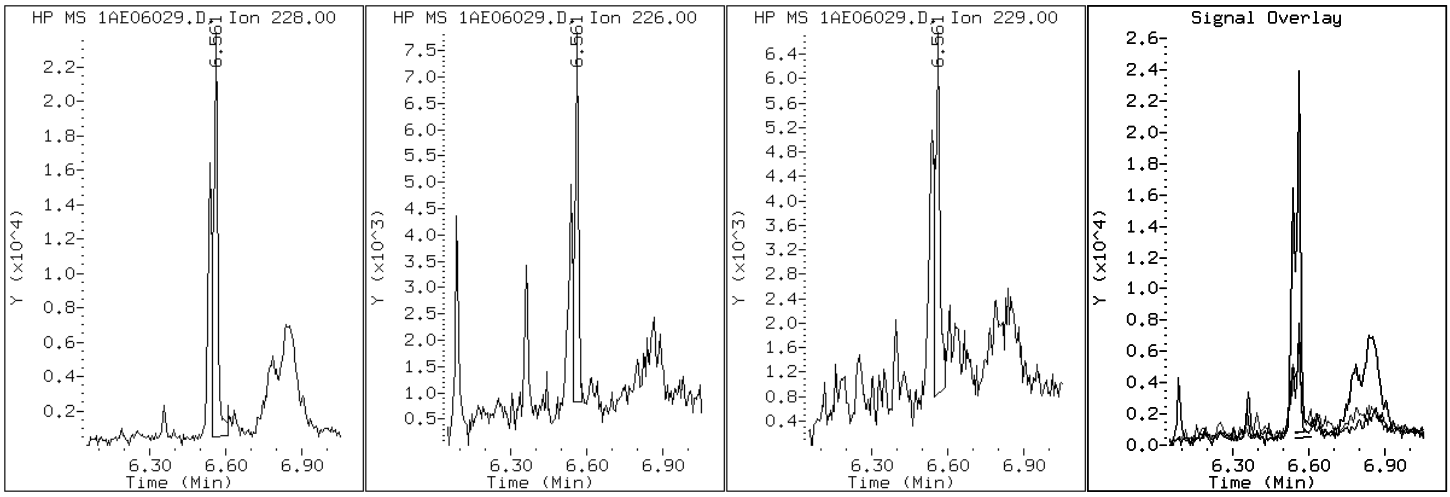
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

19 Chrysene



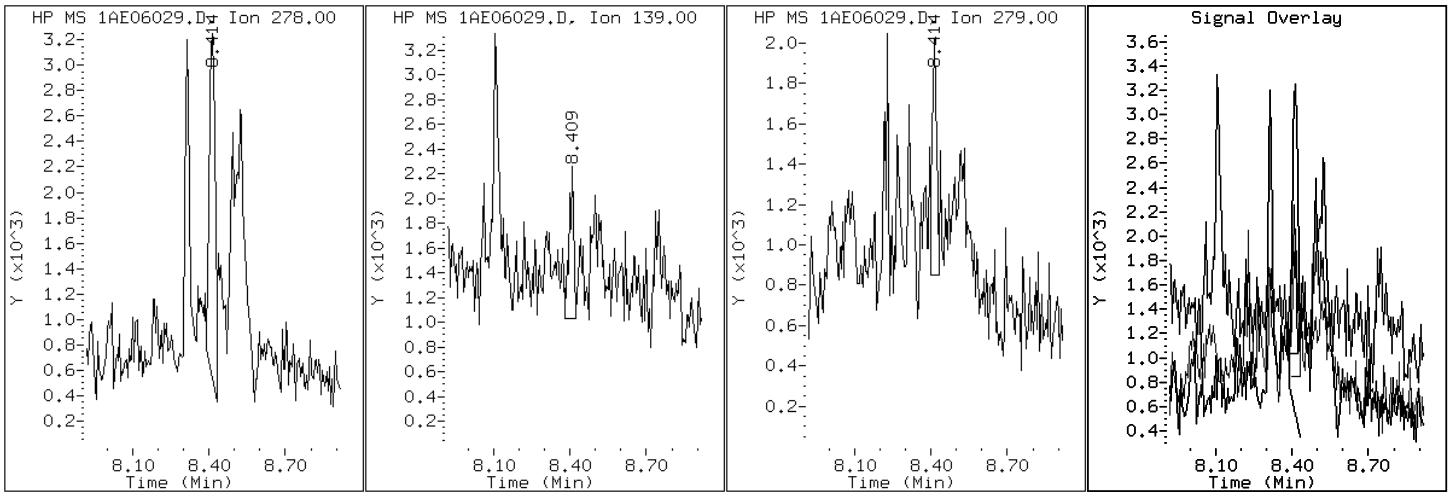
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

25 Dibenzo(a,h)anthracene



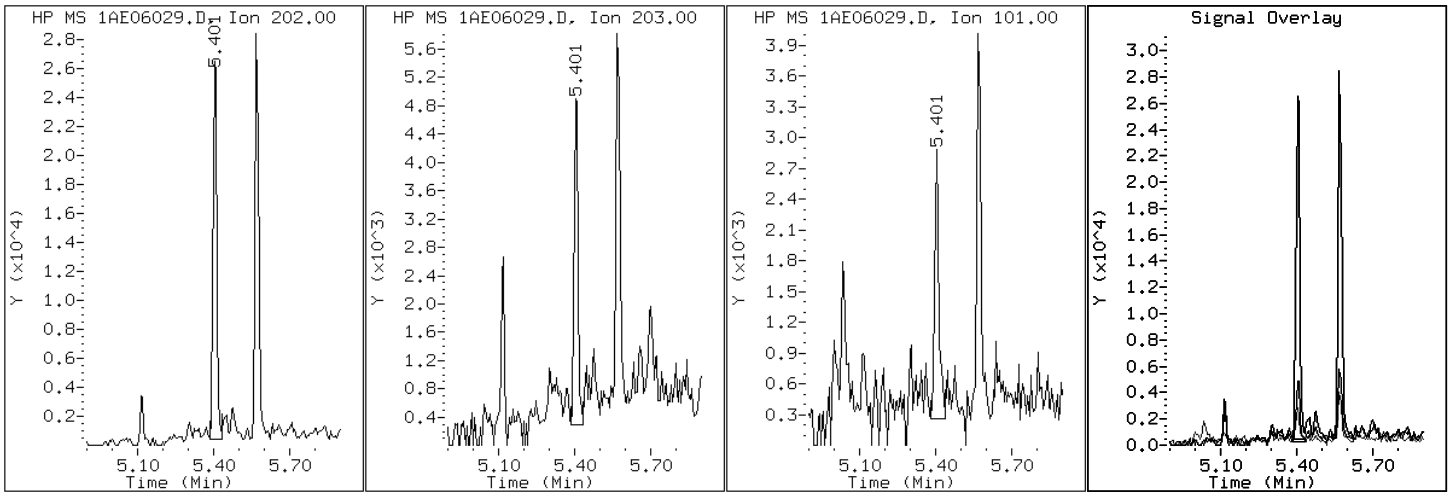
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

15 Fluoranthene



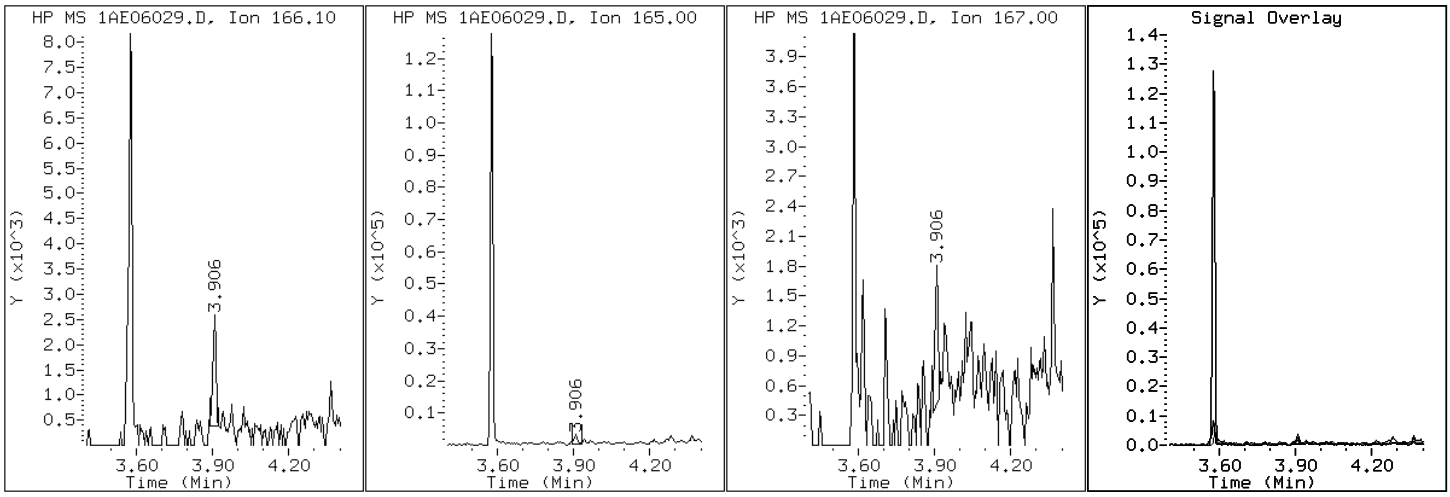
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

9 Fluorene



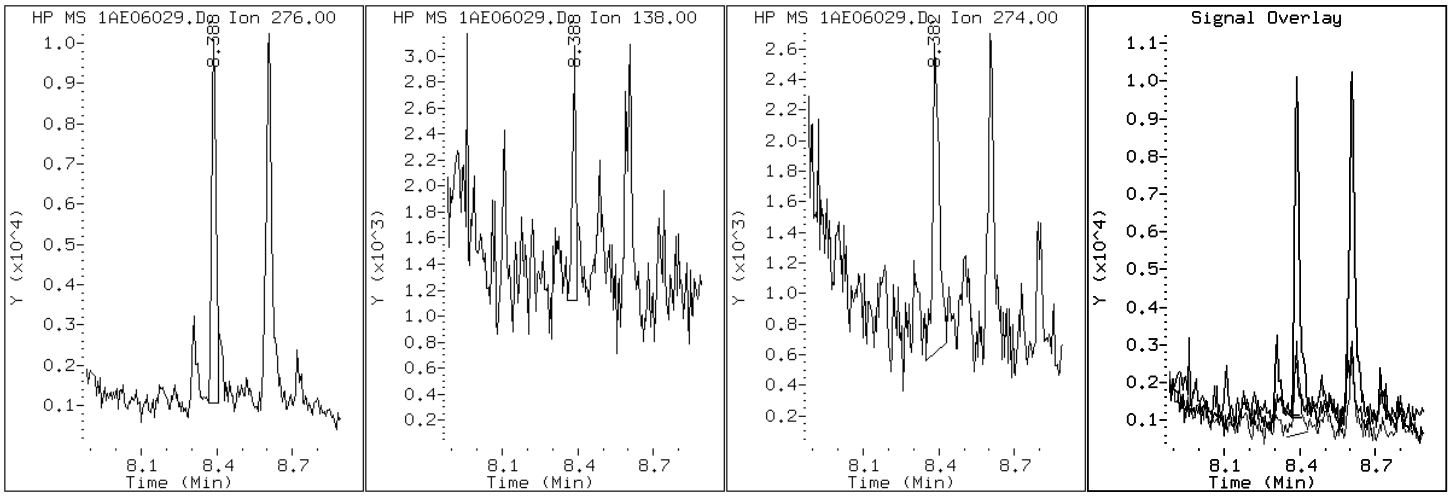
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

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



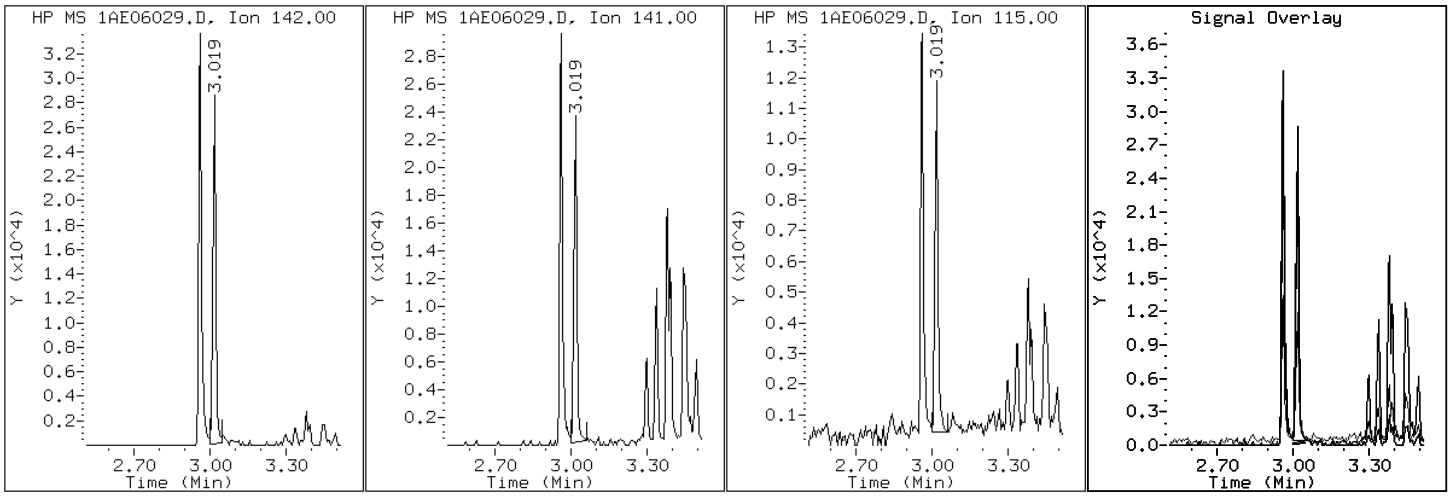
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

4 1-Methylnaphthalene



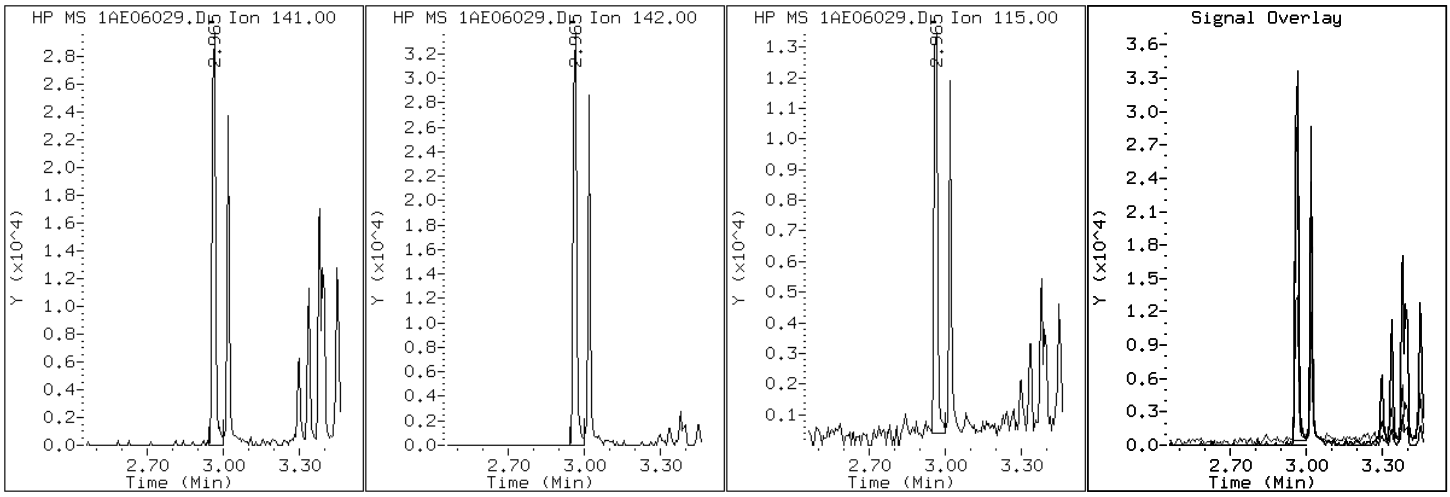
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

3 2-Methylnaphthalene



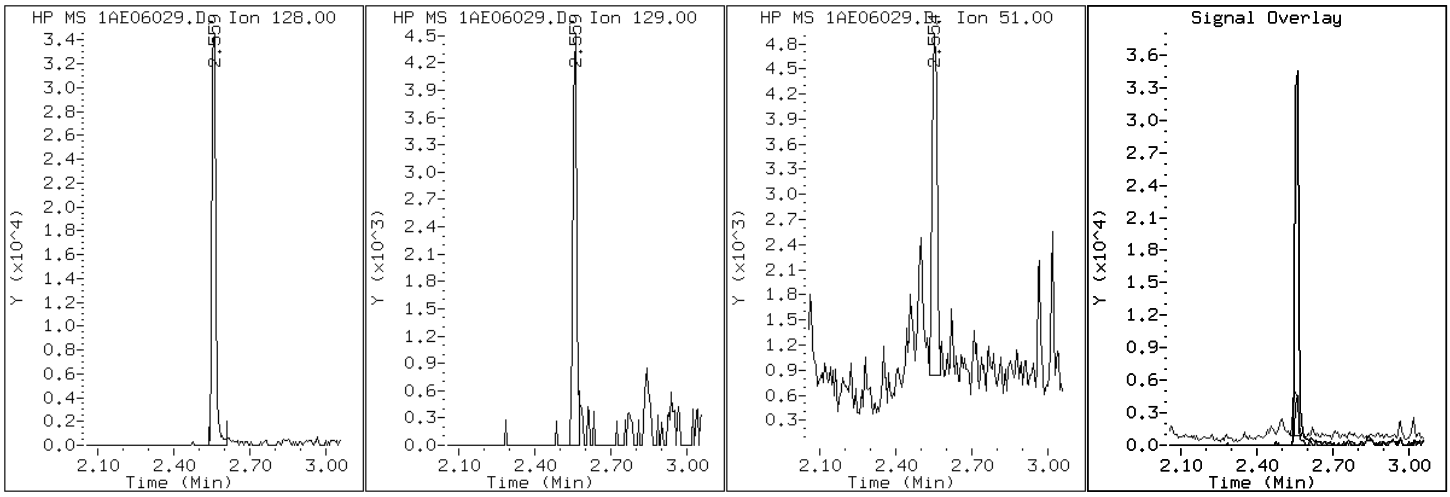
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

2 Naphthalene



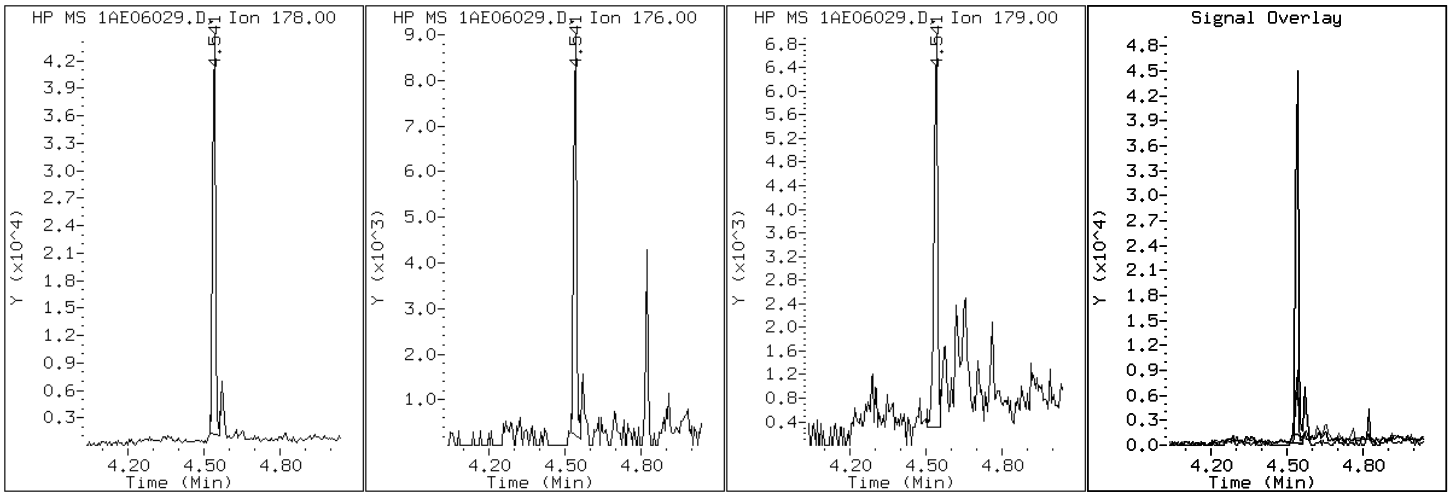
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

11 Phenanthrene



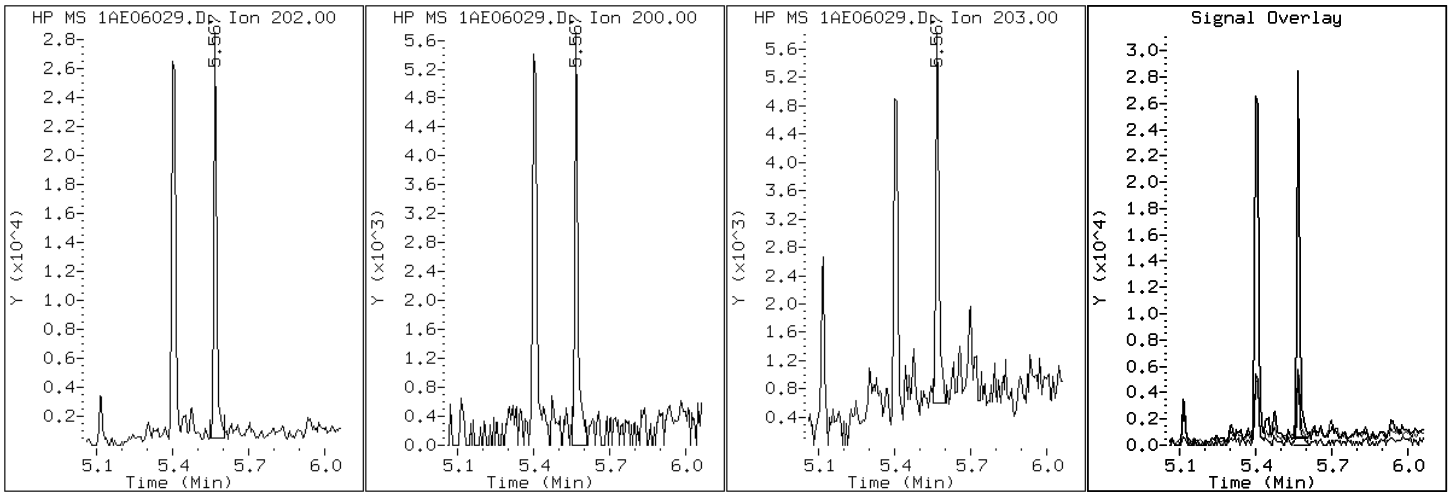
Data File: 1AE06029.D

Date: 06-MAY-2013 17:57

Client ID: CV0731B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-5-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06029.D
Inj. Date and Time: 06-MAY-2013 17:57
Instrument ID: BSMA5973.i
Client ID: CV0731B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

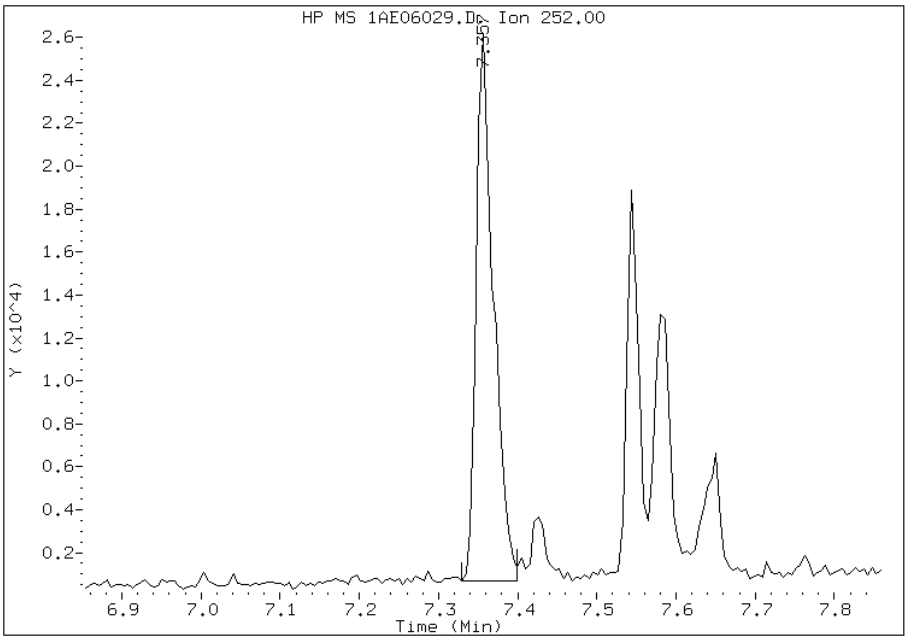
Processing Integration Results

RT: 7.36

Response: 38164

Amount: 1

Conc: 102



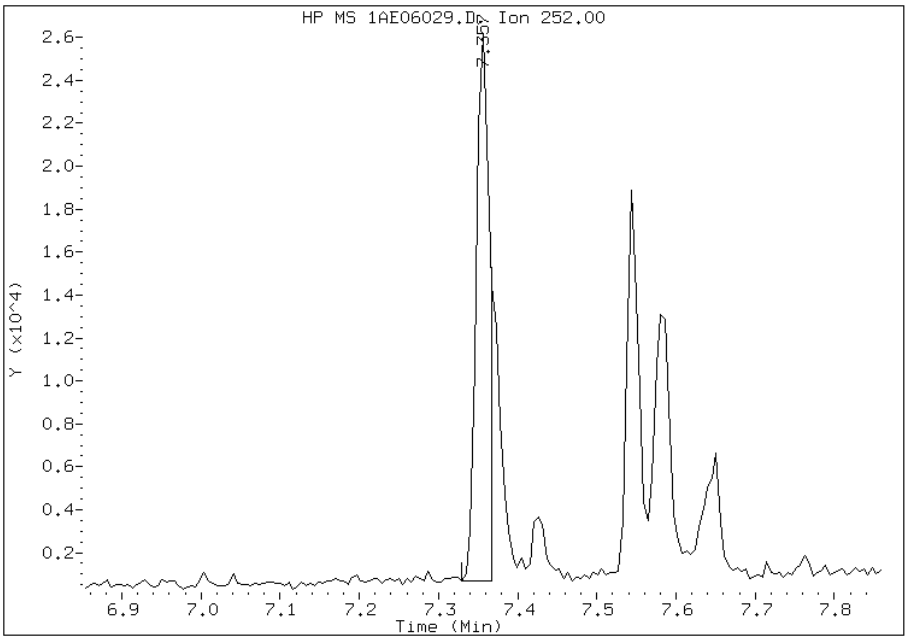
Manual Integration Results

RT: 7.36

Response: 29430

Amount: 1

Conc: 79



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:17
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06029.D
Inj. Date and Time: 06-MAY-2013 17:57
Instrument ID: BSMA5973.i
Client ID: CV0731B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

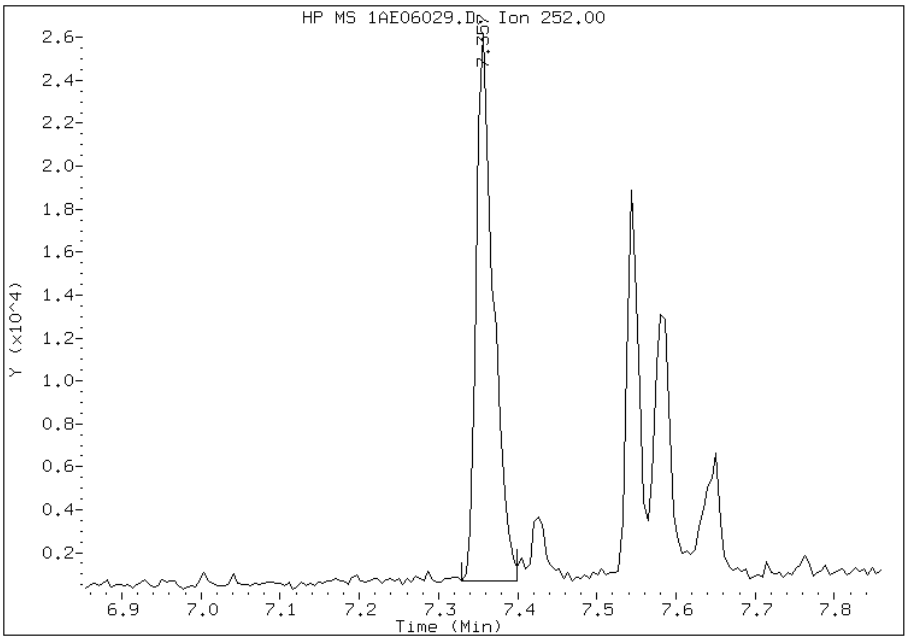
Processing Integration Results

RT: 7.36

Response: 38164

Amount: 1

Conc: 83



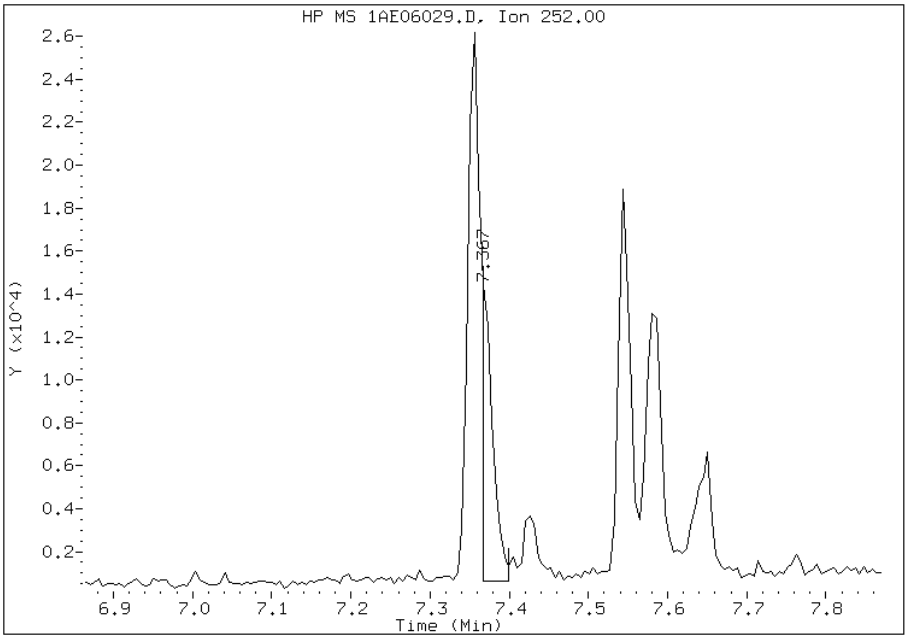
Manual Integration Results

RT: 7.37

Response: 13301

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06029.D
Inj. Date and Time: 06-MAY-2013 17:57
Instrument ID: BSMA5973.i
Client ID: CV0731B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

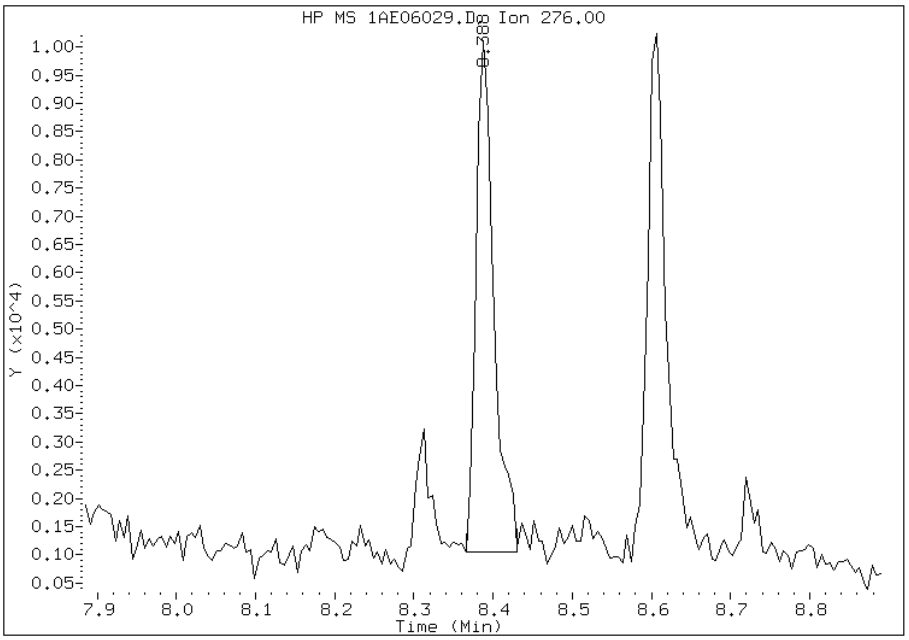
Processing Integration Results

RT: 8.39

Response: 13923

Amount: 1

Conc: 43



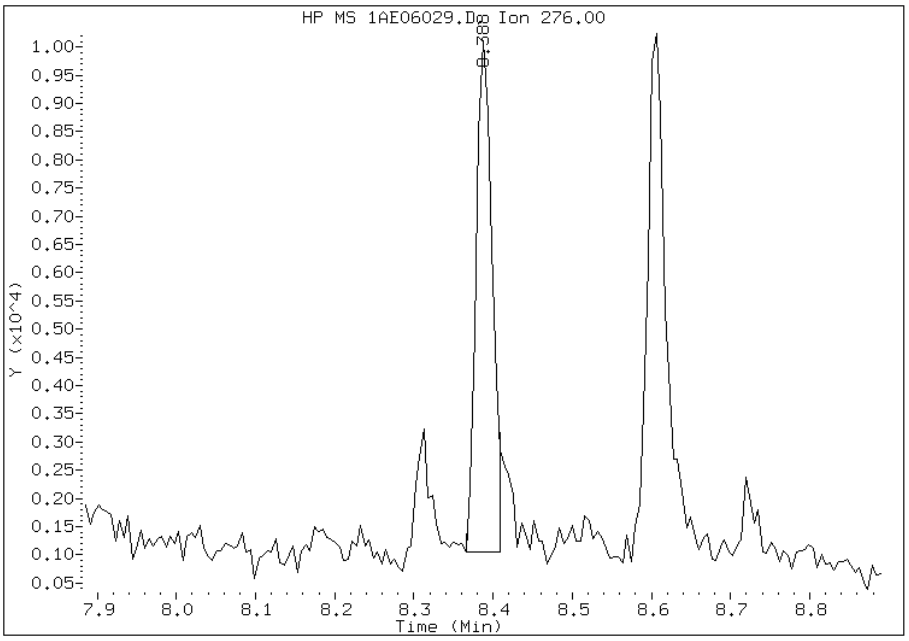
Manual Integration Results

RT: 8.39

Response: 12655

Amount: 0

Conc: 39



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0662A-CS-SP | Lab Sample ID: 680-89896-6

Matrix: Solid | Lab File ID: 1AE06030.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 10:35

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 15.02(g) | Date Analyzed: 05/06/2013 18:12

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

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

% Moisture: 16.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | 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	5.9
120-12-7	Anthracene	54		10	5.0
56-55-3	Benzo[a]anthracene	220		9.5	4.6
50-32-8	Benzo[a]pyrene	190		12	6.2
205-99-2	Benzo[b]fluoranthene	290		15	7.3
191-24-2	Benzo[g,h,i]perylene	150		24	5.2
207-08-9	Benzo[k]fluoranthene	120		9.5	4.3
218-01-9	Chrysene	230		11	5.3
53-70-3	Dibenz(a,h)anthracene	54		24	4.9
206-44-0	Fluoranthene	260		24	4.8
86-73-7	Fluorene	15	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	160		24	8.4
90-12-0	1-Methylnaphthalene	37	J	48	5.2
91-57-6	2-Methylnaphthalene	53		48	8.4
91-20-3	Naphthalene	67		48	5.2
85-01-8	Phenanthrene	160		9.5	4.6
129-00-0	Pyrene	230		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	47		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06030.D
Lab Smp Id: 680-89896-A-6-A Client Smp ID: CV0662A-CS-SP
Inj Date : 06-MAY-2013 18:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-6-a
Misc Info : 680-89896-A-6-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 30
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	15.976	% 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)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.546	2.544	(1.000)	1423642	40.0000	
*	6 Acenaphthene-d10	164	3.577	3.575	(1.000)	727767	40.0000	
*	10 Phenanthrene-d10	188	4.528	4.521	(1.000)	1106824	40.0000	
$	14 o-Terphenyl	230	4.821	4.820	(1.065)	74752	4.71887	373.9098
*	18 Chrysene-d12	240	6.547	6.535	(1.000)	937704	40.0000	
*	23 Perylene-d12	264	7.642	7.630	(1.000)	1166367	40.0000	
	2 Naphthalene	128	2.556	2.555	(1.004)	28514	0.85051	67.3922
	3 2-Methylnaphthalene	141	2.962	2.961	(1.164)	11473	0.67337	53.3558
	4 1-Methylnaphthalene	142	3.021	3.014	(1.187)	9555	0.46787	37.0729
	5 Acenaphthylene	152	3.486	3.484	(0.975)	15707	0.45931	36.3942
	9 Fluorene	166	3.908	3.901	(1.093)	4133	0.18467	14.6326
	11 Phenanthrene	178	4.538	4.537	(1.002)	56063	2.04455	162.0043
	12 Anthracene	178	4.570	4.569	(1.009)	19950	0.68300	54.1189
	13 Carbazole	167	4.709	4.702	(1.040)	8851	0.33702	26.7044

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.404	5.397	(1.193)	101951	3.23191	256.0874
16 Pyrene	202	5.569	5.562	(0.851)	87422	2.90040	229.8190
17 Benzo(a)anthracene	228	6.542	6.524	(0.999)	73762	2.79894	221.7800
19 Chrysene	228	6.563	6.551	(1.002)	84310	2.84336	225.2994
20 Benzo(b)fluoranthene	252	7.359	7.347	(0.963)	114096	3.70093	293.2505(M)
21 Benzo(k)fluoranthene	252	7.370	7.368	(0.964)	55700	1.45636	115.3976(M)
22 Benzo(a)pyrene	252	7.583	7.576	(0.992)	75031	2.36980	187.7763
24 Indeno(1,2,3-cd)pyrene	276	8.395	8.388	(1.099)	53412	2.01372	159.5609(M)
25 Dibenzo(a,h)anthracene	278	8.417	8.414	(1.101)	18509	0.68076	53.9413
26 Benzo(g,h,i)perylene	276	8.614	8.602	(1.127)	55152	1.93363	153.2150

QC Flag Legend

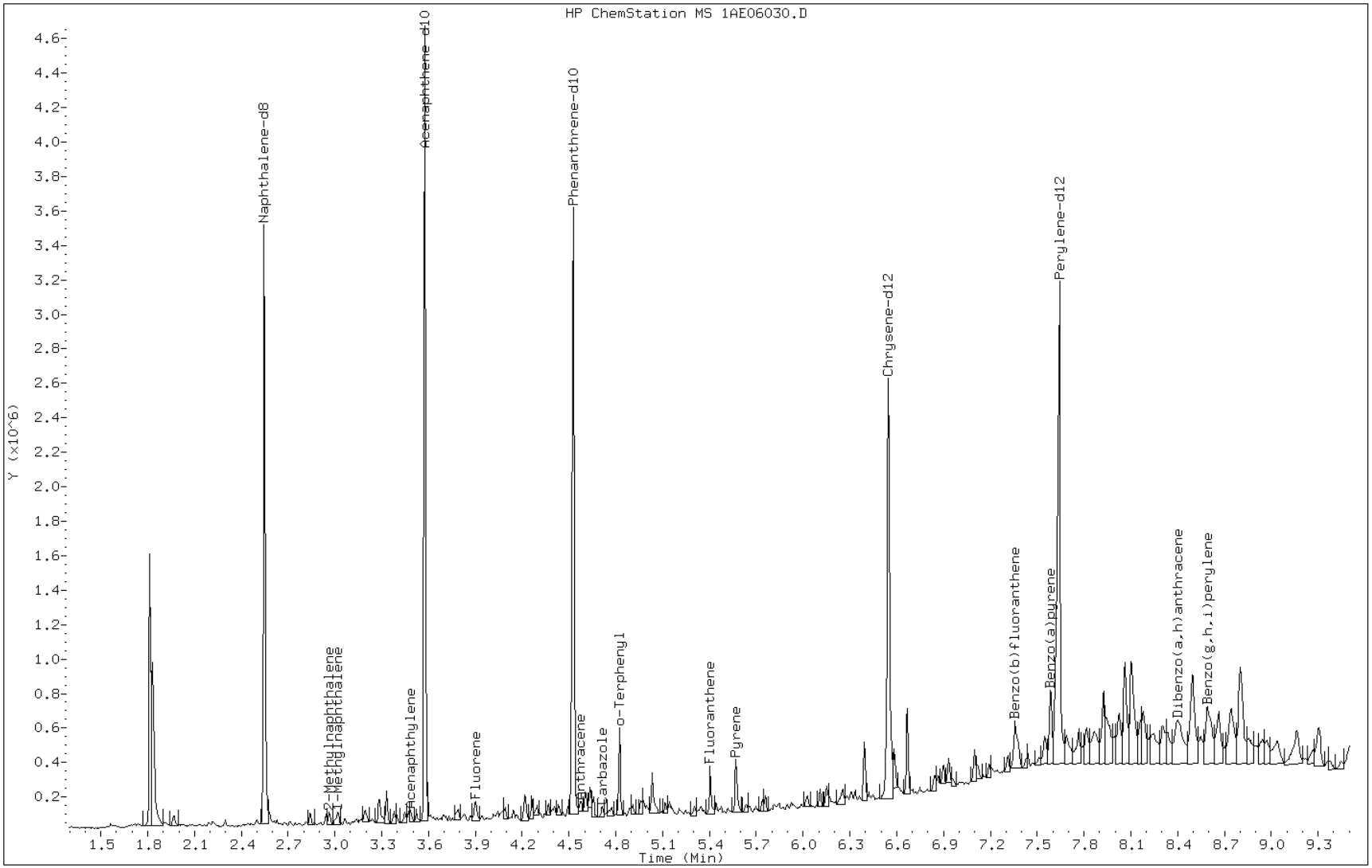
M - Compound response manually integrated.

Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC



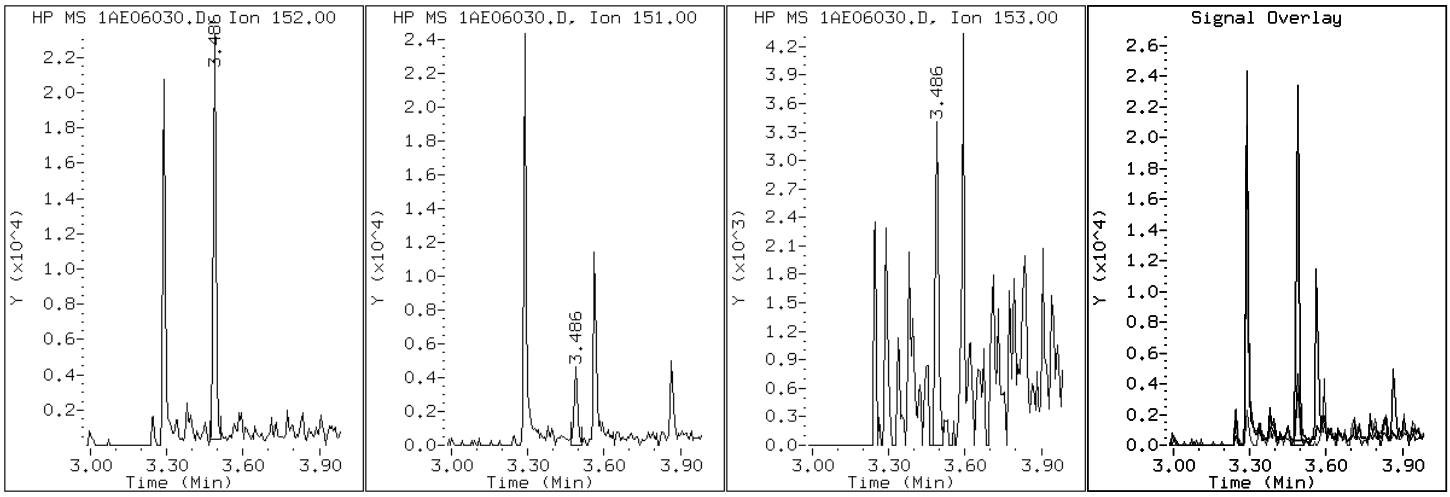
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

5 Acenaphthylene



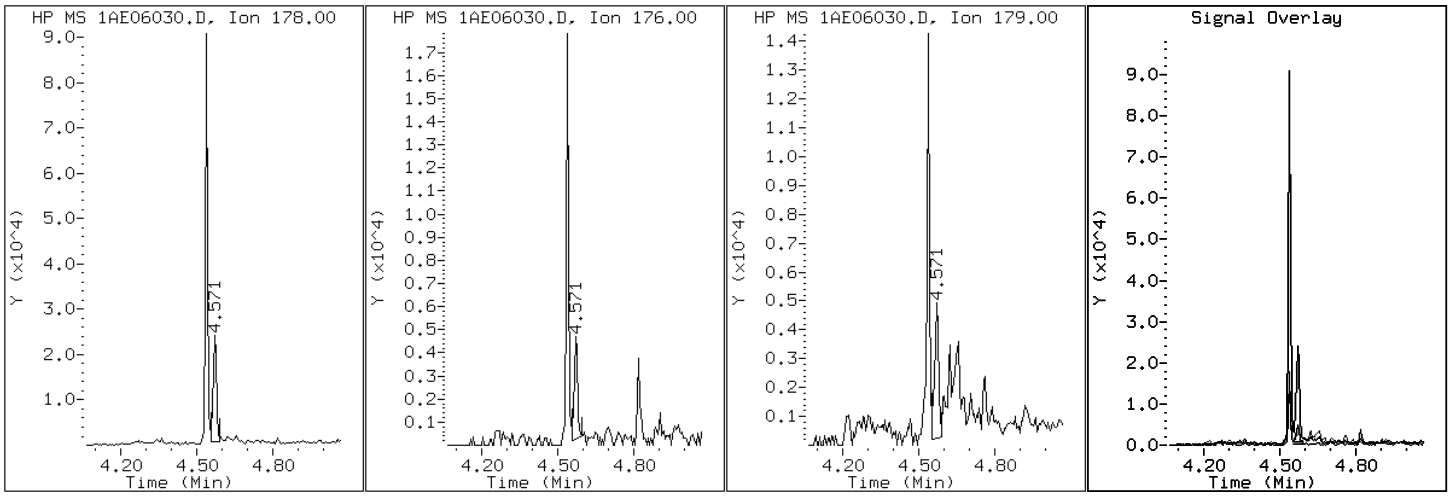
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

12 Anthracene



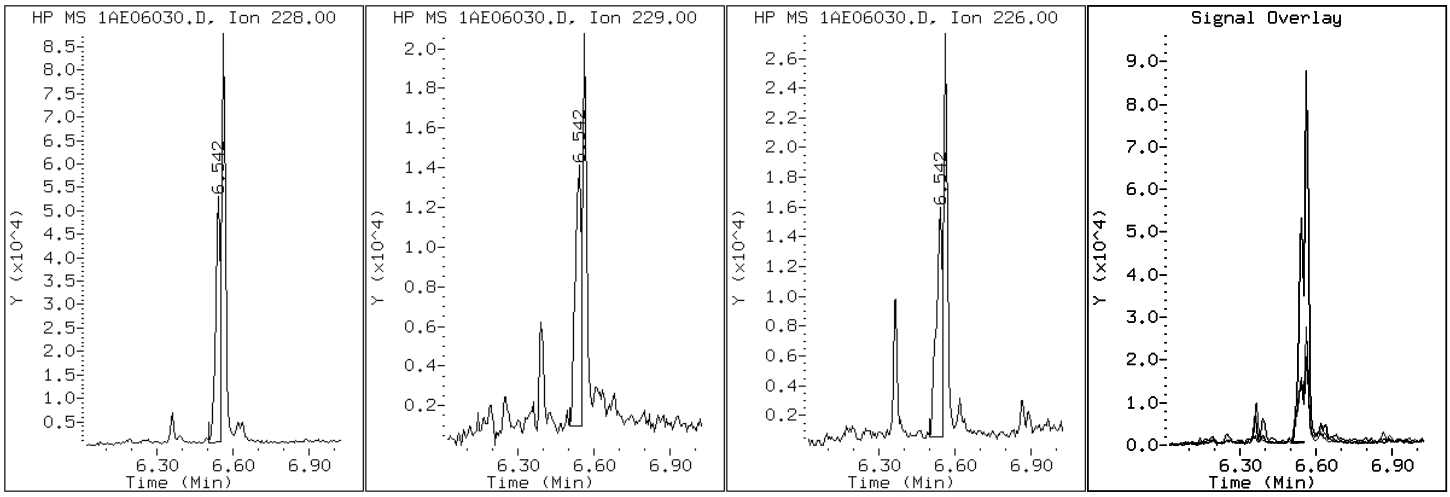
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

17 Benzo(a)anthracene



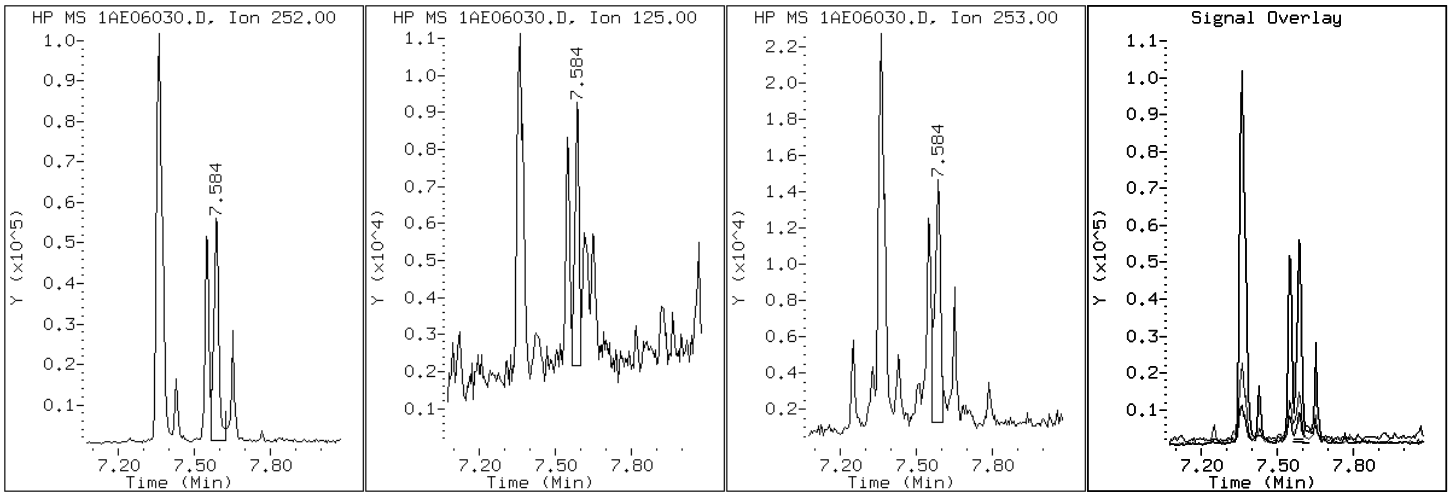
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

22 Benzo(a)pyrene



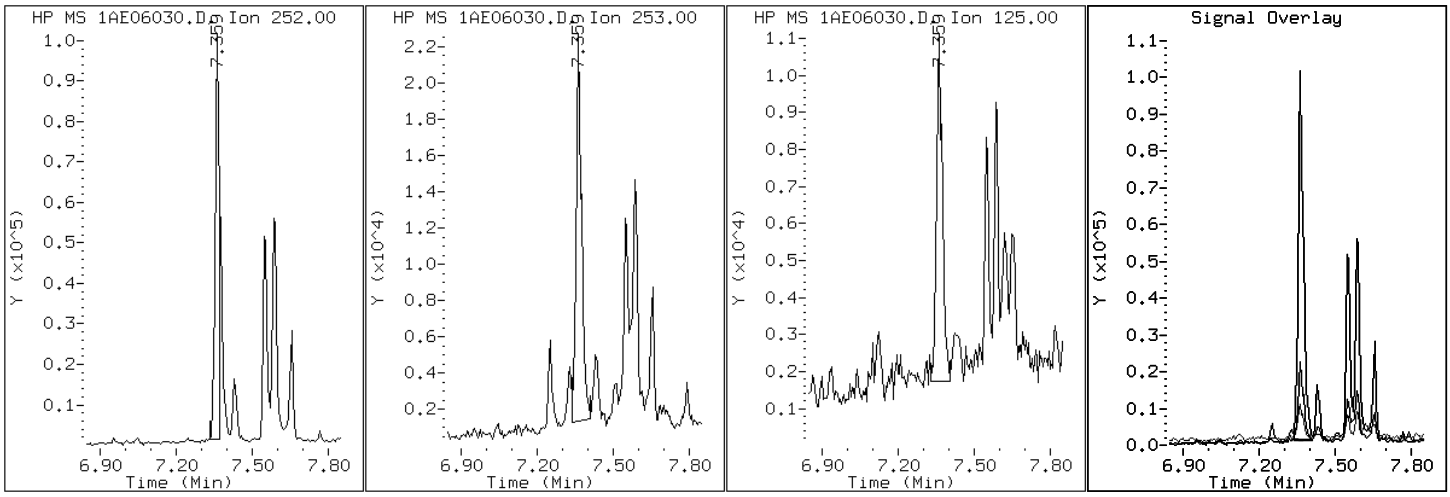
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

20 Benzo(b)fluoranthene



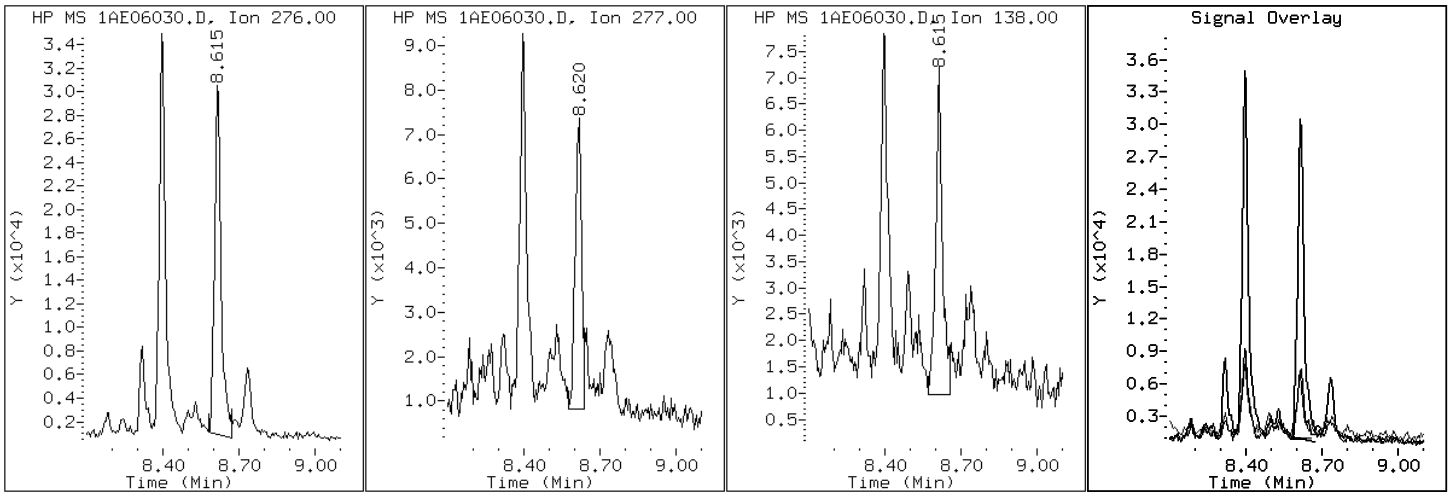
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

26 Benzo(g,h,i)perylene



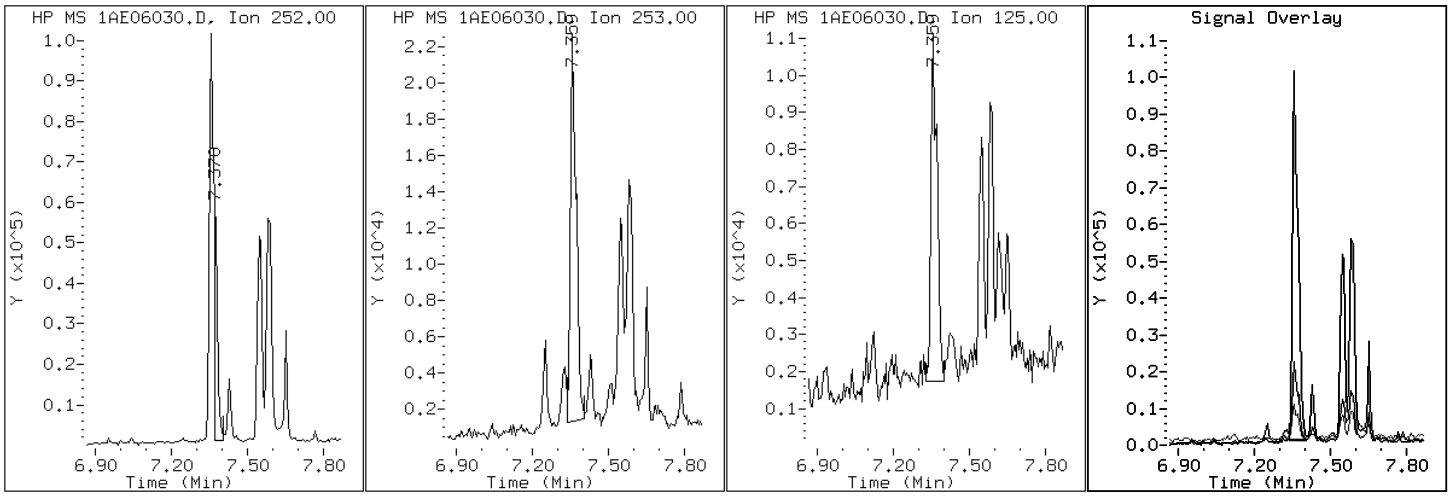
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

21 Benzo(k)fluoranthene



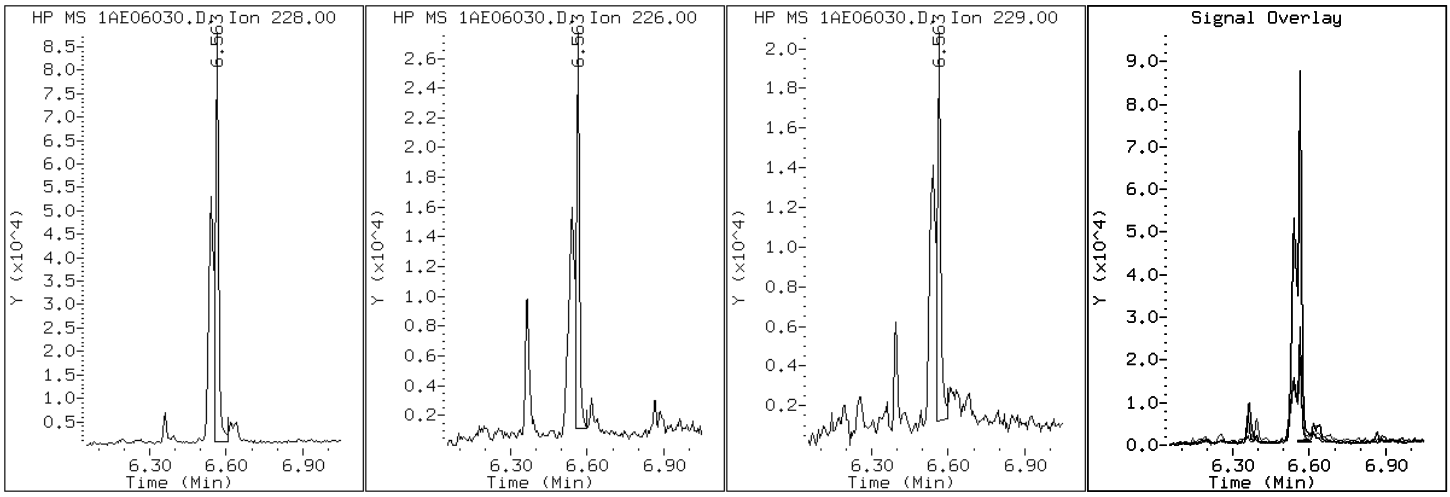
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

19 Chrysene



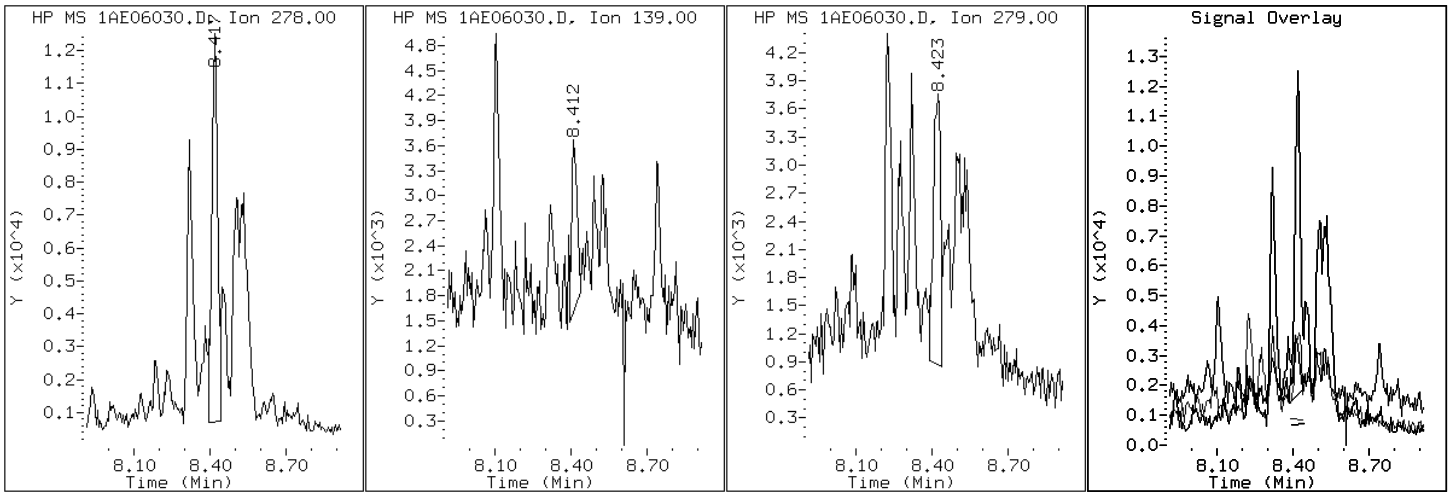
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

25 Dibenzo(a,h)anthracene



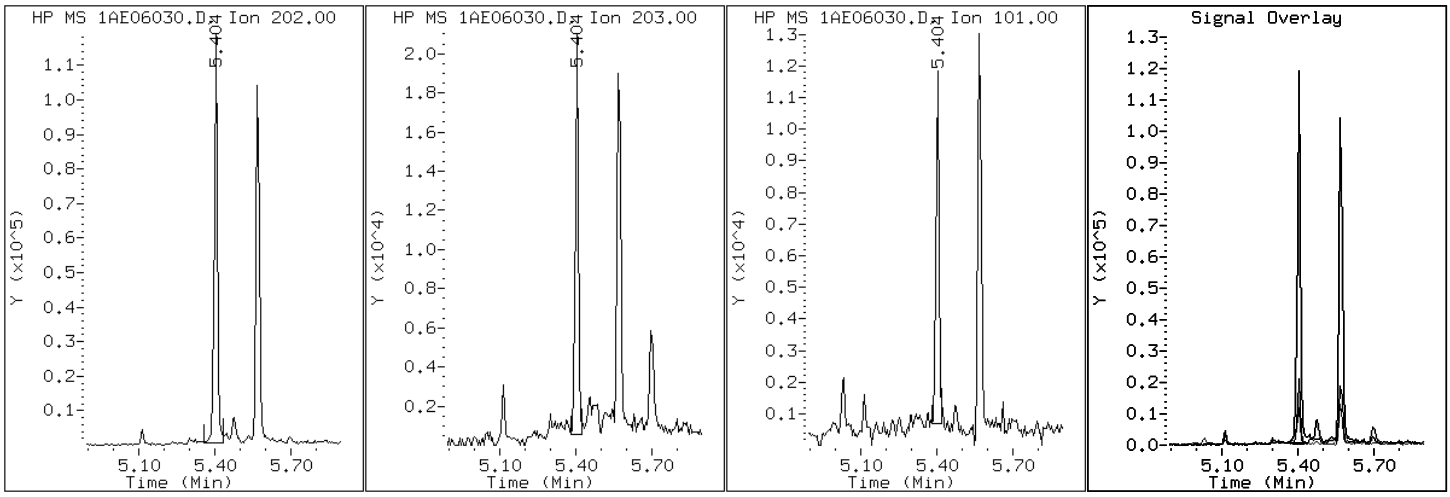
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

15 Fluoranthene



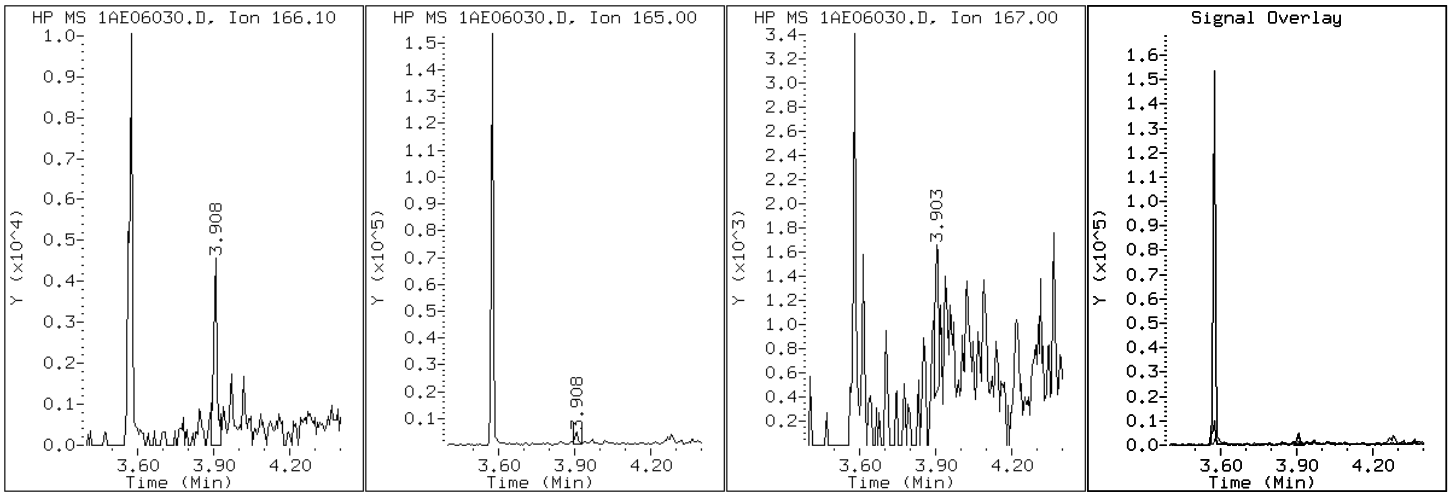
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

9 Fluorene



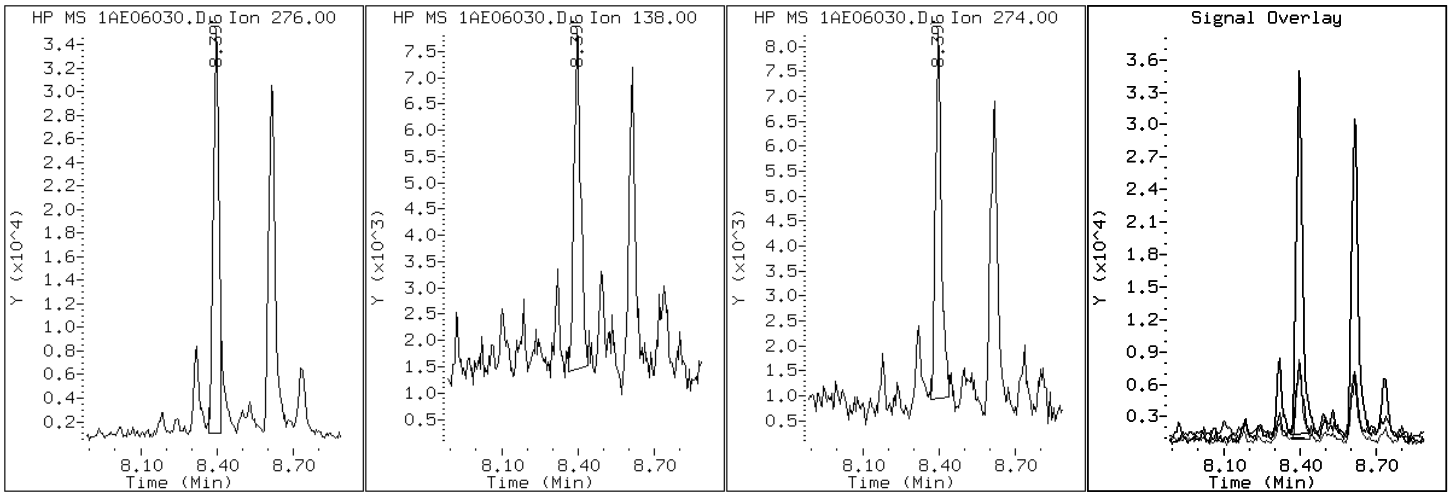
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

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



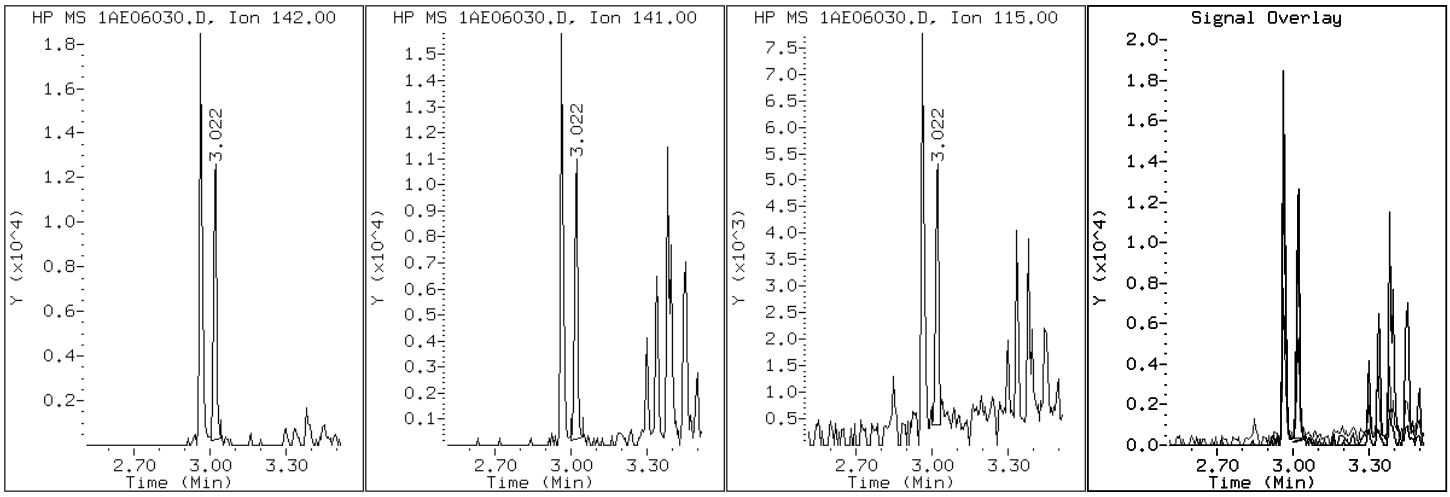
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

4 1-Methylnaphthalene



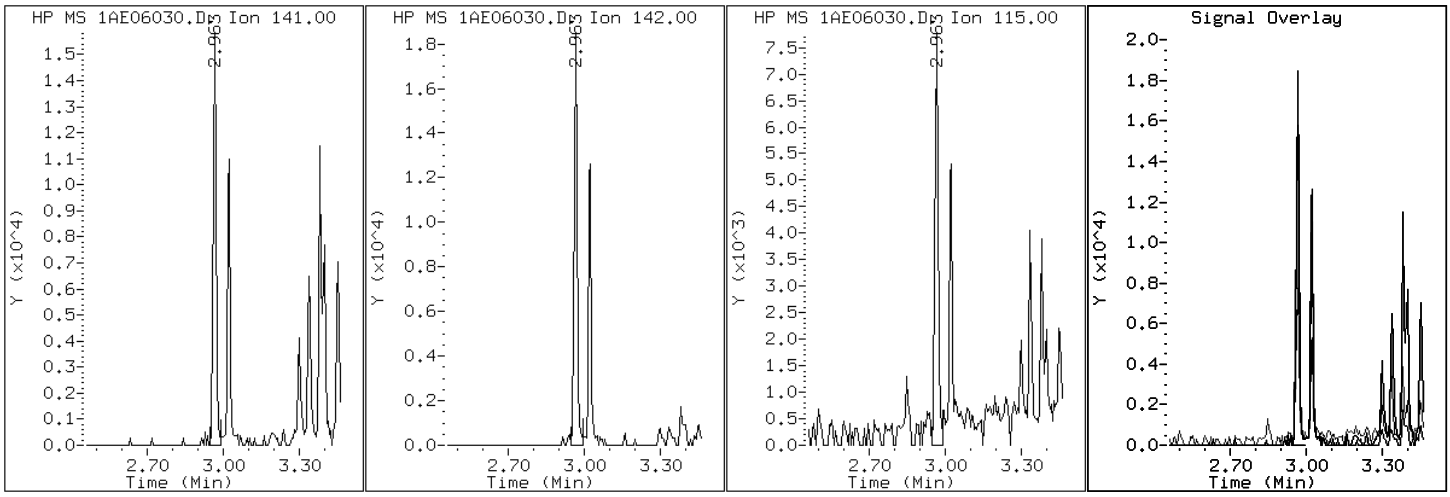
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

3 2-Methylnaphthalene



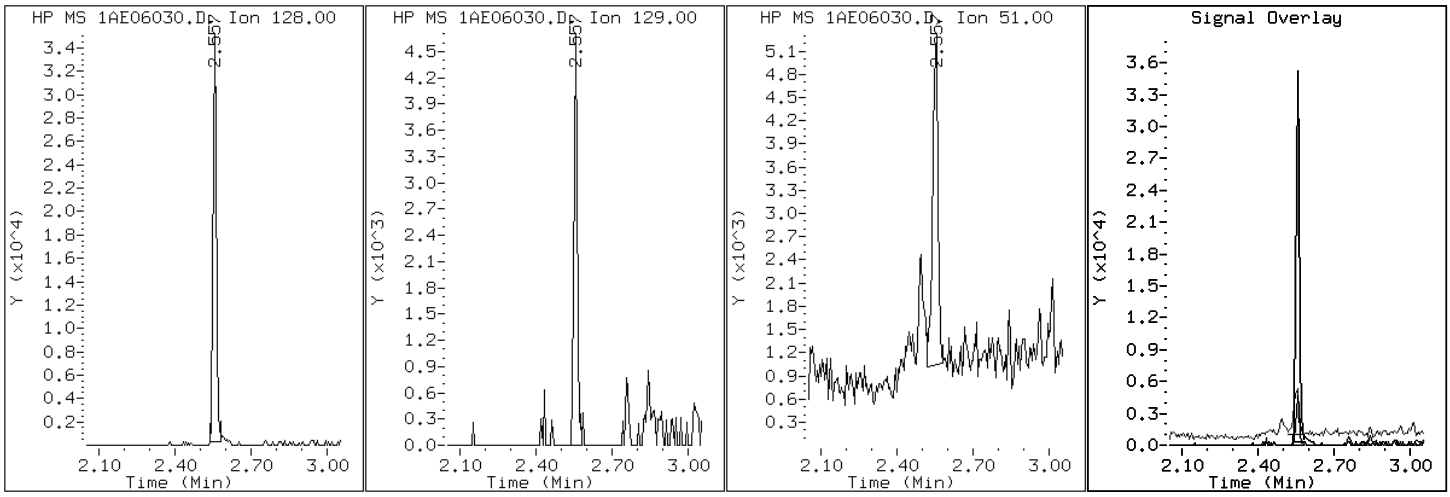
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

2 Naphthalene



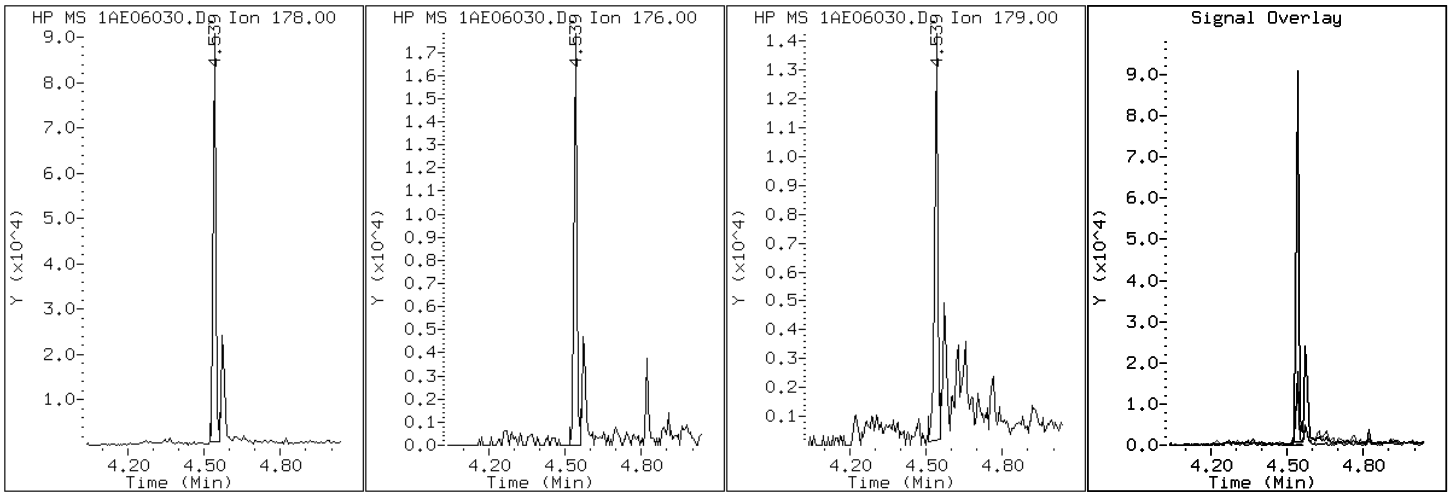
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

11 Phenanthrene



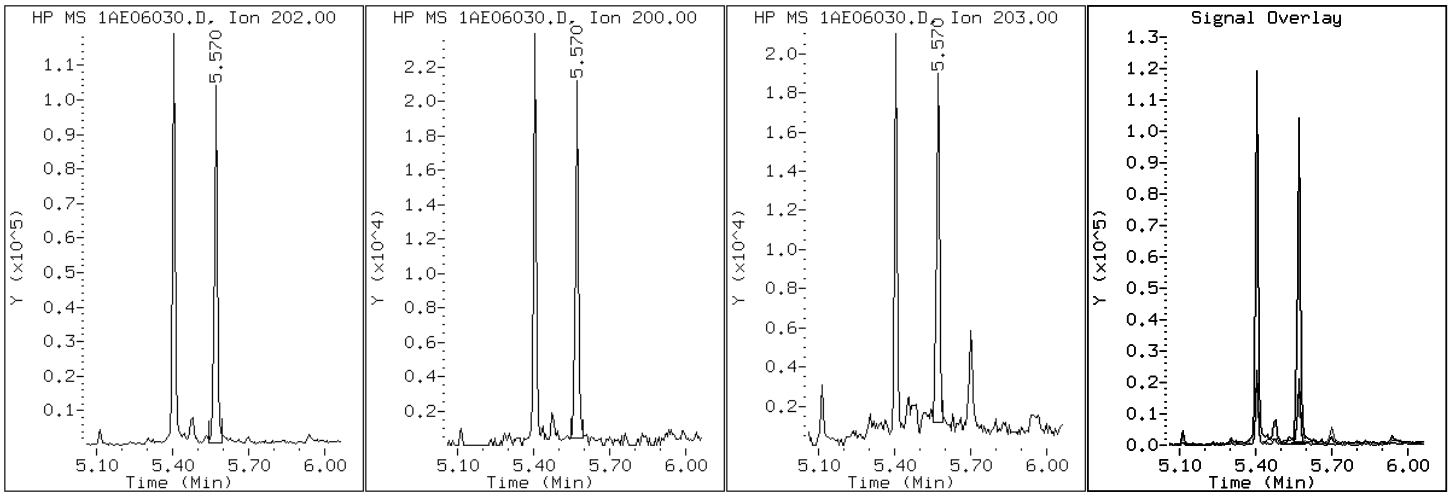
Data File: 1AE06030.D

Date: 06-MAY-2013 18:12

Client ID: CV0662A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-6-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06030.D
Inj. Date and Time: 06-MAY-2013 18:12
Instrument ID: BSMA5973.i
Client ID: CV0662A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

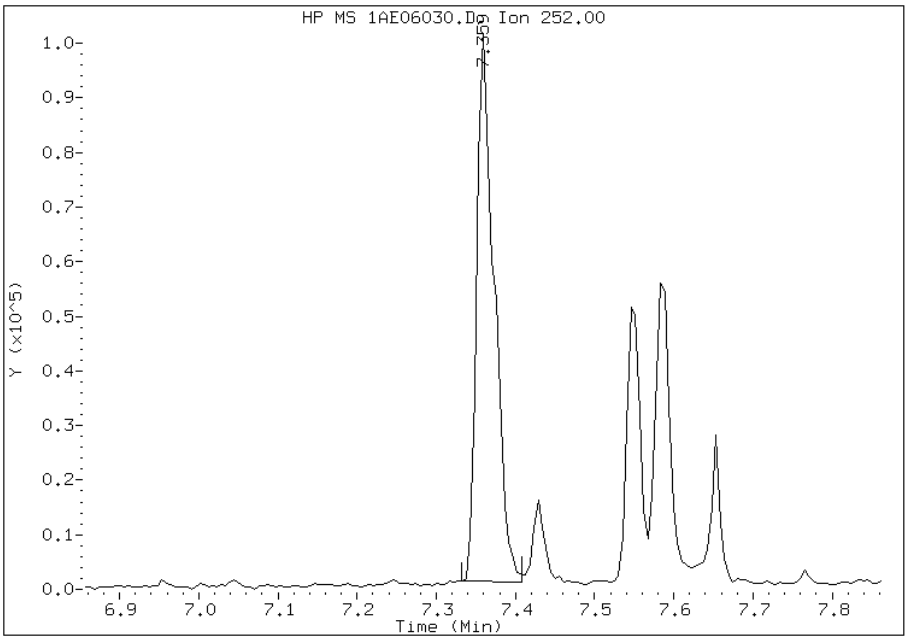
Processing Integration Results

RT: 7.36

Response: 150719

Amount: 5

Conc: 387



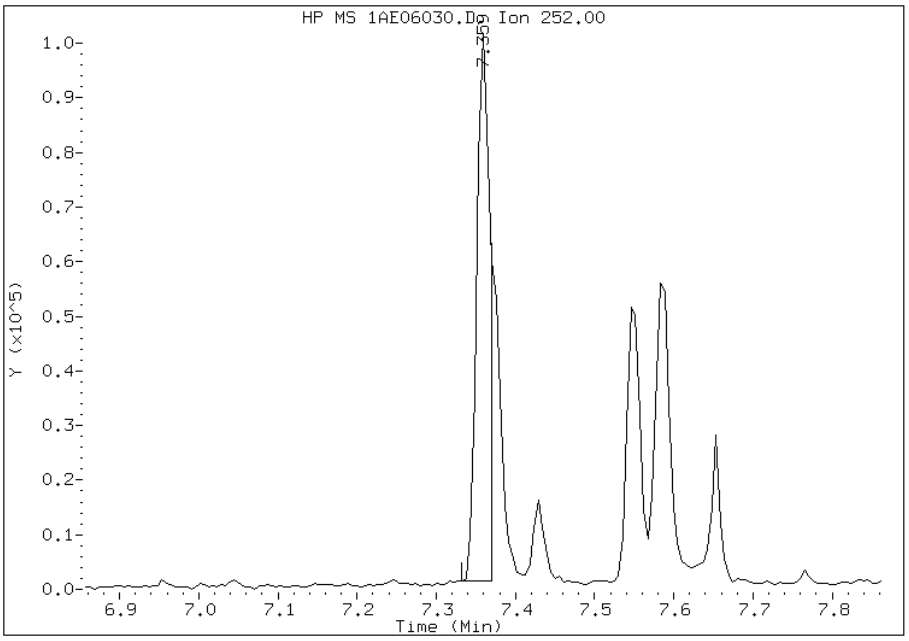
Manual Integration Results

RT: 7.36

Response: 114096

Amount: 4

Conc: 293



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06030.D
Inj. Date and Time: 06-MAY-2013 18:12
Instrument ID: BSMA5973.i
Client ID: CV0662A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

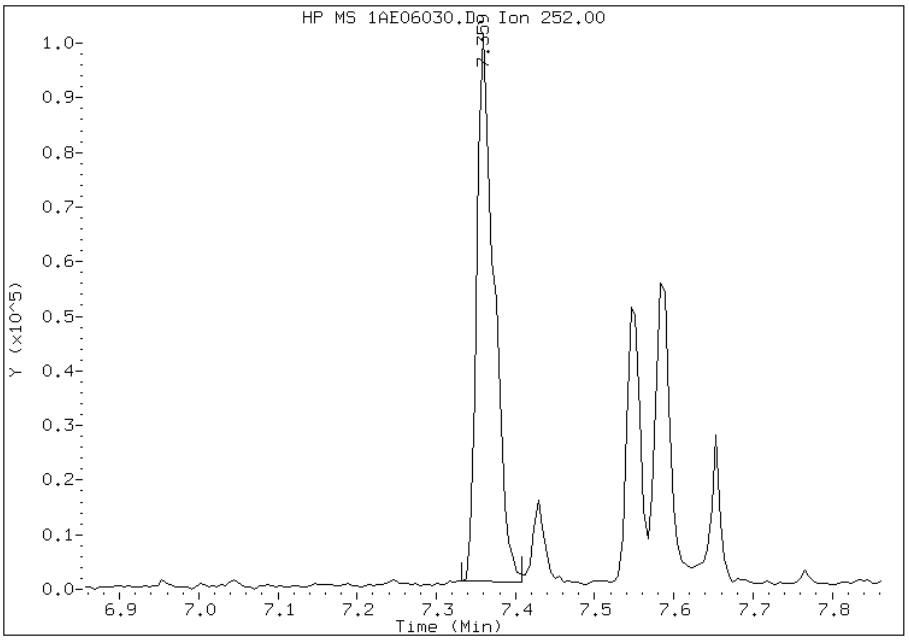
Processing Integration Results

RT: 7.36

Response: 150719

Amount: 4

Conc: 312



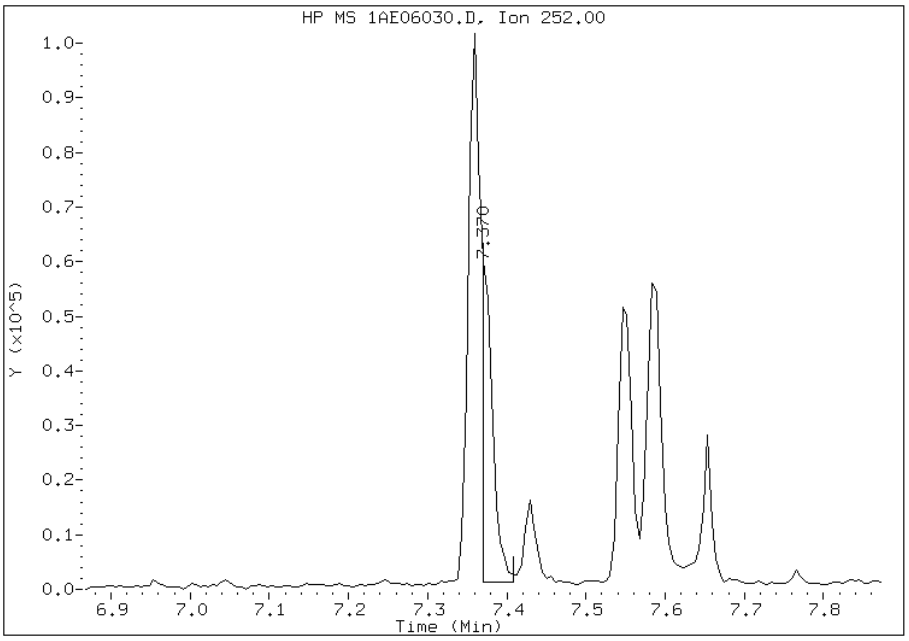
Manual Integration Results

RT: 7.37

Response: 55700

Amount: 1

Conc: 115



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06030.D
Inj. Date and Time: 06-MAY-2013 18:12
Instrument ID: BSMA5973.i
Client ID: CV0662A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

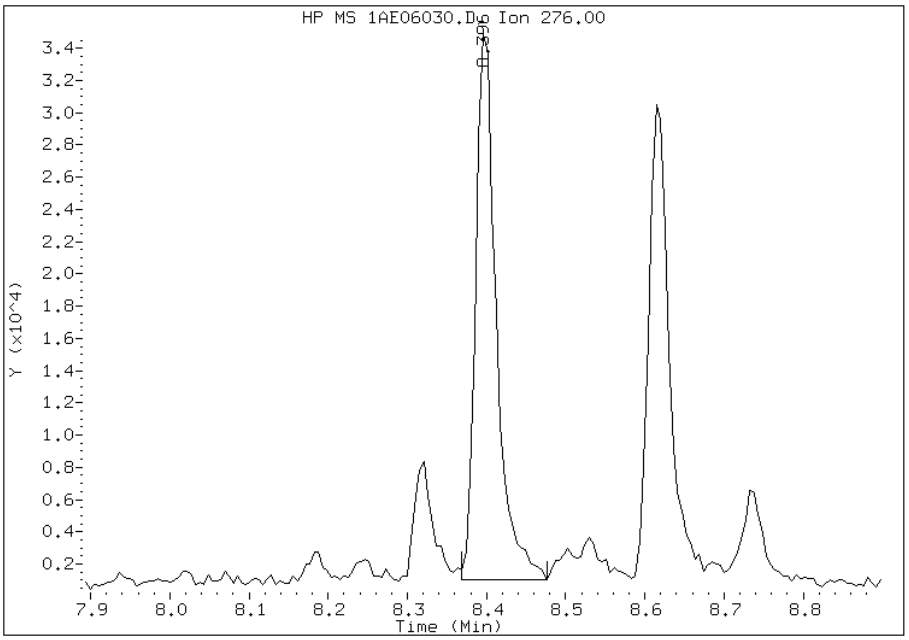
Processing Integration Results

RT: 8.40

Response: 60769

Amount: 2

Conc: 182



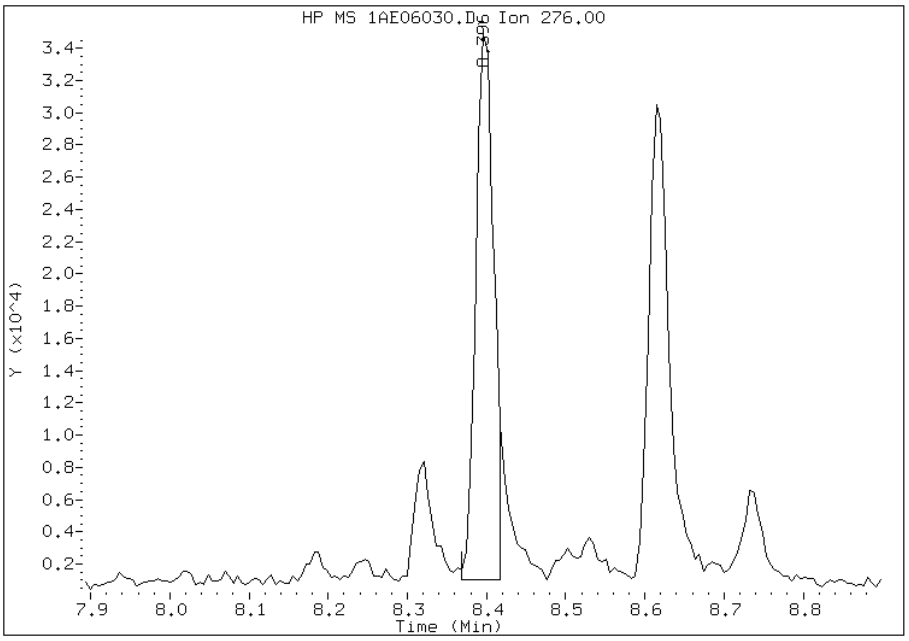
Manual Integration Results

RT: 8.40

Response: 53412

Amount: 2

Conc: 160



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0670A-CS-SP | Lab Sample ID: 680-89896-7

Matrix: Solid | Lab File ID: 1AE06031.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 09:10

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 15.10(g) | Date Analyzed: 05/06/2013 18:27

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

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

% Moisture: 16.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	350		190	24
120-12-7	Anthracene	250		40	20
56-55-3	Benzo[a]anthracene	700		38	19
50-32-8	Benzo[a]pyrene	580		50	25
205-99-2	Benzo[b]fluoranthene	940		58	29
191-24-2	Benzo[g,h,i]perylene	650		96	21
207-08-9	Benzo[k]fluoranthene	380		38	17
218-01-9	Chrysene	640		43	22
53-70-3	Dibenz(a,h)anthracene	160		96	20
206-44-0	Fluoranthene	910		96	19
86-73-7	Fluorene	66	J	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	660		96	34
90-12-0	1-Methylnaphthalene	170	J	190	21
91-57-6	2-Methylnaphthalene	280		190	34
91-20-3	Naphthalene	310		190	21
85-01-8	Phenanthrene	810		38	19
129-00-0	Pyrene	750		96	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	48		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06031.D
Lab Smp Id: 680-89896-A-7-A Client Smp ID: CV0670A-CS-SP
Inj Date : 06-MAY-2013 18:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-7-a
Misc Info : 680-89896-A-7-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 31
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	16.939	% 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)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.548	2.544	(1.000)	1390697	40.0000	
* 6 Acenaphthene-d10	164	3.579	3.575	(1.000)	732736	40.0000	
* 10 Phenanthrene-d10	188	4.525	4.521	(1.000)	1106116	40.0000	
$ 14 o-Terphenyl	230	4.824	4.820	(1.066)	18848	1.19058	379.7025
* 18 Chrysene-d12	240	6.550	6.535	(1.000)	965811	40.0000	
* 23 Perylene-d12	264	7.645	7.630	(1.000)	1246998	40.0000	
2 Naphthalene	128	2.559	2.555	(1.004)	31760	0.96978	309.2838
3 2-Methylnaphthalene	141	2.965	2.961	(1.163)	14582	0.87612	279.4130
4 1-Methylnaphthalene	142	3.018	3.014	(1.184)	10627	0.53269	169.8877
5 Acenaphthylene	152	3.488	3.484	(0.975)	37403	1.08633	346.4555
9 Fluorene	166	3.905	3.901	(1.091)	4689	0.20809	66.3651
11 Phenanthrene	178	4.541	4.537	(1.004)	69280	2.52818	806.2921
12 Anthracene	178	4.573	4.569	(1.011)	22933	0.78563	250.5542
13 Carbazole	167	4.712	4.702	(1.041)	9388	0.35770	114.0770

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.406	5.397	(1.195)	90231	2.86221	912.8234
16 Pyrene	202	5.572	5.562	(0.851)	72874	2.34738	748.6310
17 Benzo(a)anthracene	228	6.544	6.524	(0.999)	59950	2.20864	704.3831
19 Chrysene	228	6.566	6.551	(1.002)	61419	2.01108	641.3774
20 Benzo(b)fluoranthene	252	7.362	7.347	(0.963)	96763	2.93575	936.2752(M)
21 Benzo(k)fluoranthene	252	7.372	7.368	(0.964)	48963	1.19743	381.8874(QM)
22 Benzo(a)pyrene	252	7.586	7.576	(0.992)	61563	1.81870	580.0236
24 Indeno(1,2,3-cd)pyrene	276	8.398	8.388	(1.099)	58652	2.06829	659.6240(M)
25 Dibenzo(a,h)anthracene	278	8.425	8.414	(1.102)	14737	0.50698	161.6864
26 Benzo(g,h,i)perylene	276	8.622	8.602	(1.128)	62045	2.03464	648.8924

QC Flag Legend

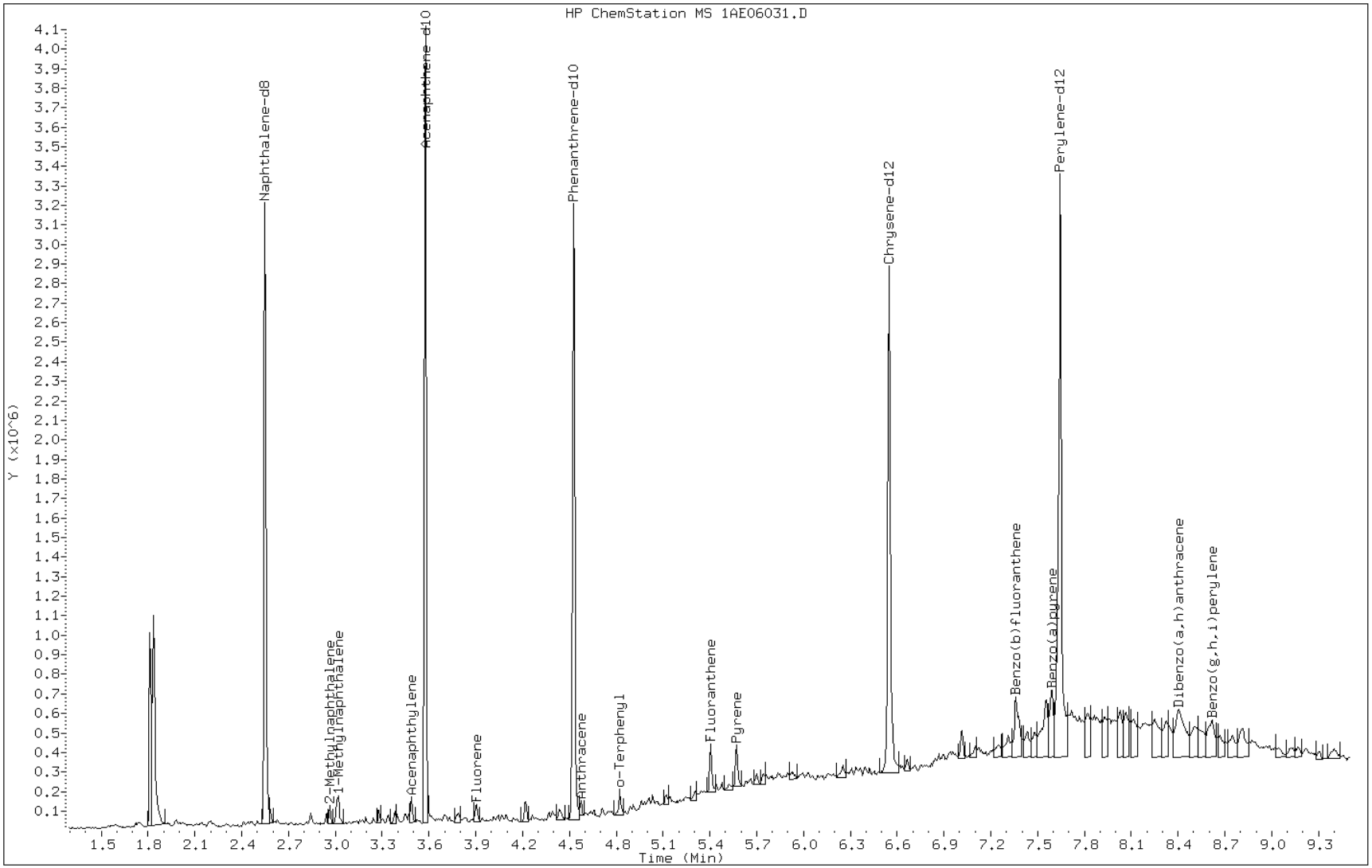
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC



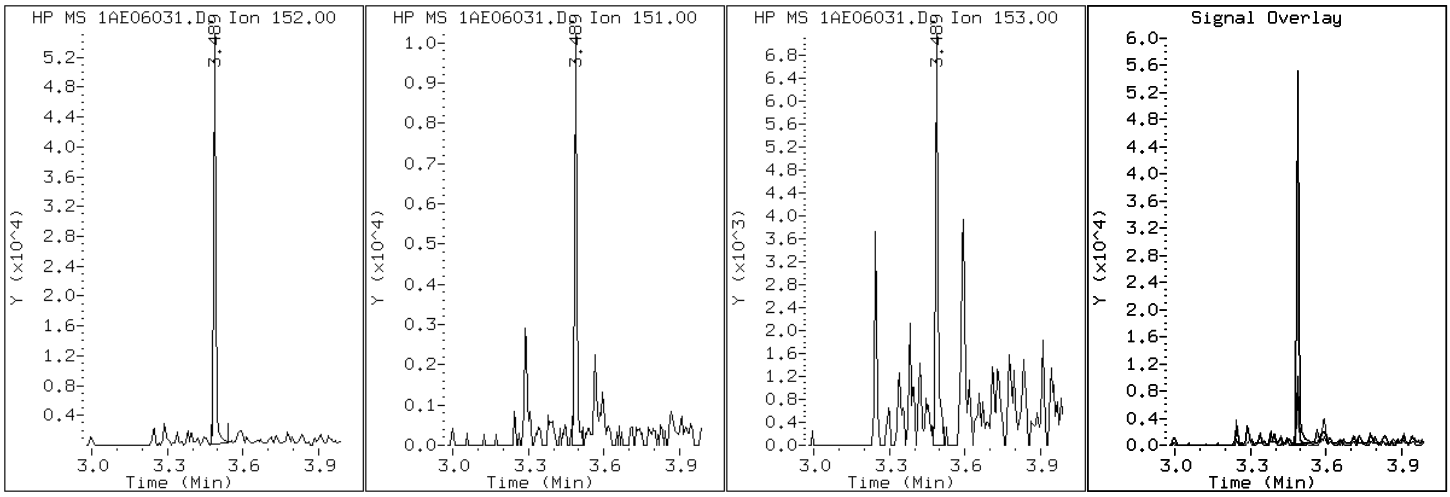
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

5 Acenaphthylene



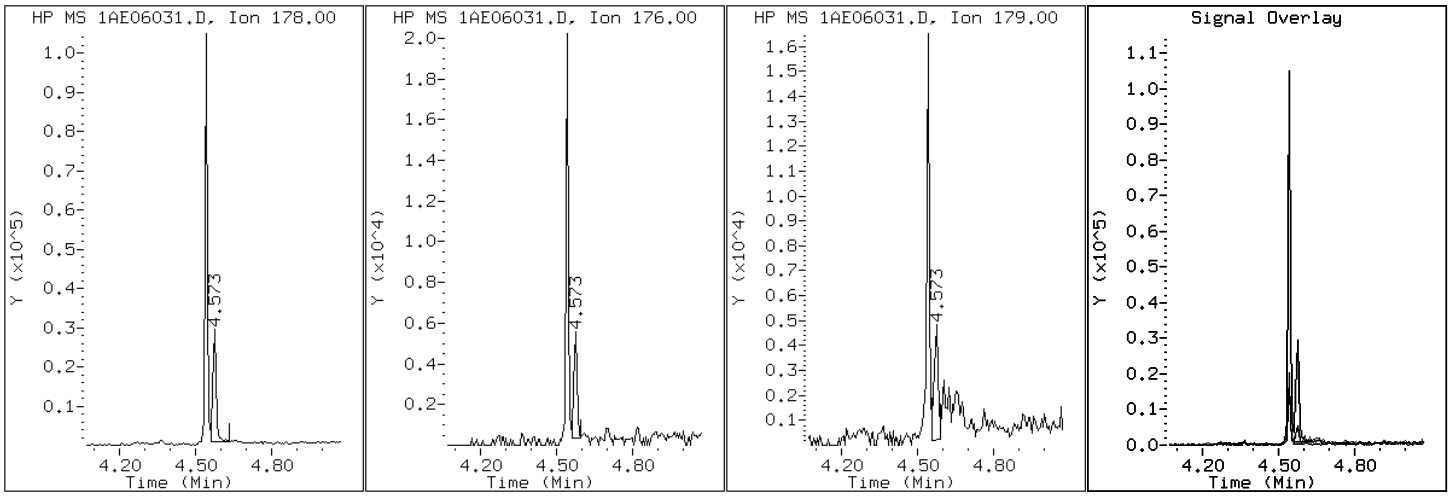
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

12 Anthracene



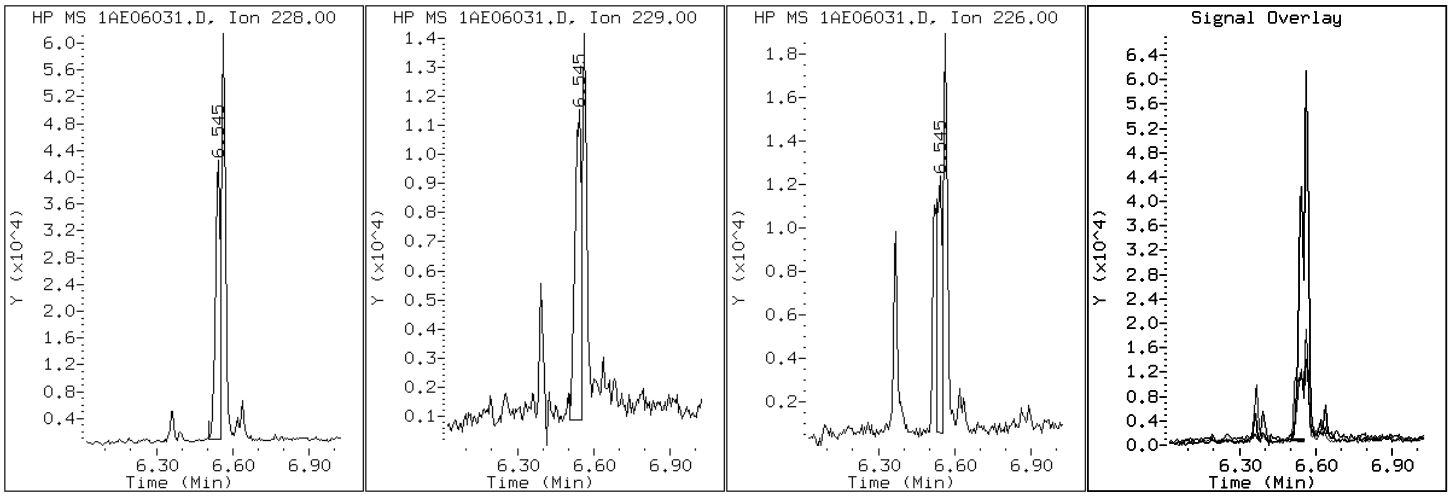
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

17 Benzo(a)anthracene



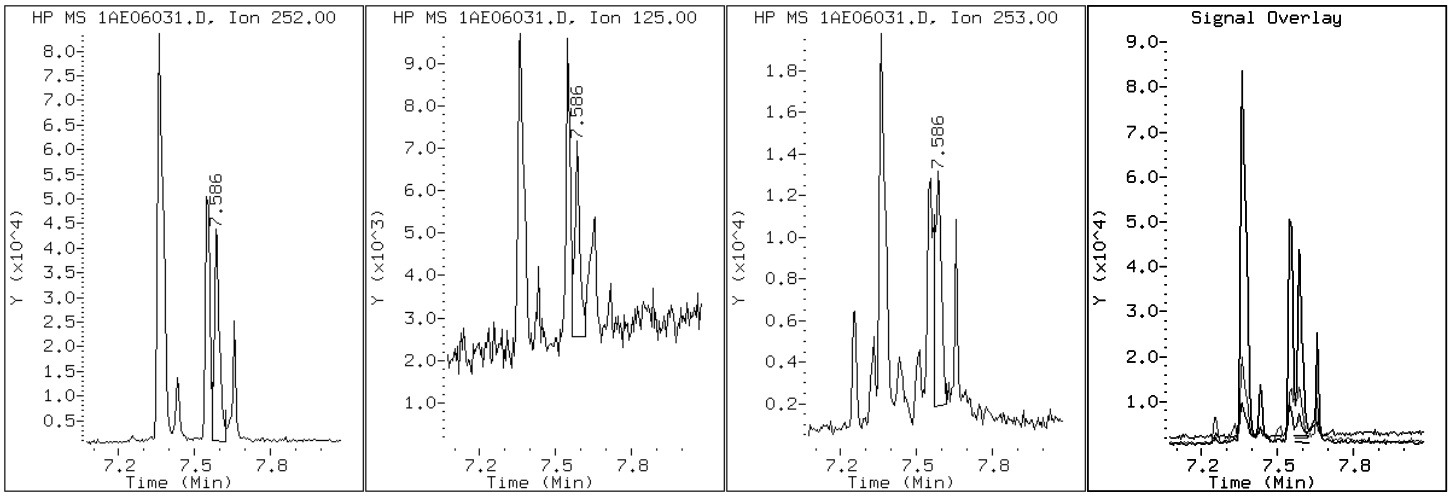
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

22 Benzo(a)pyrene



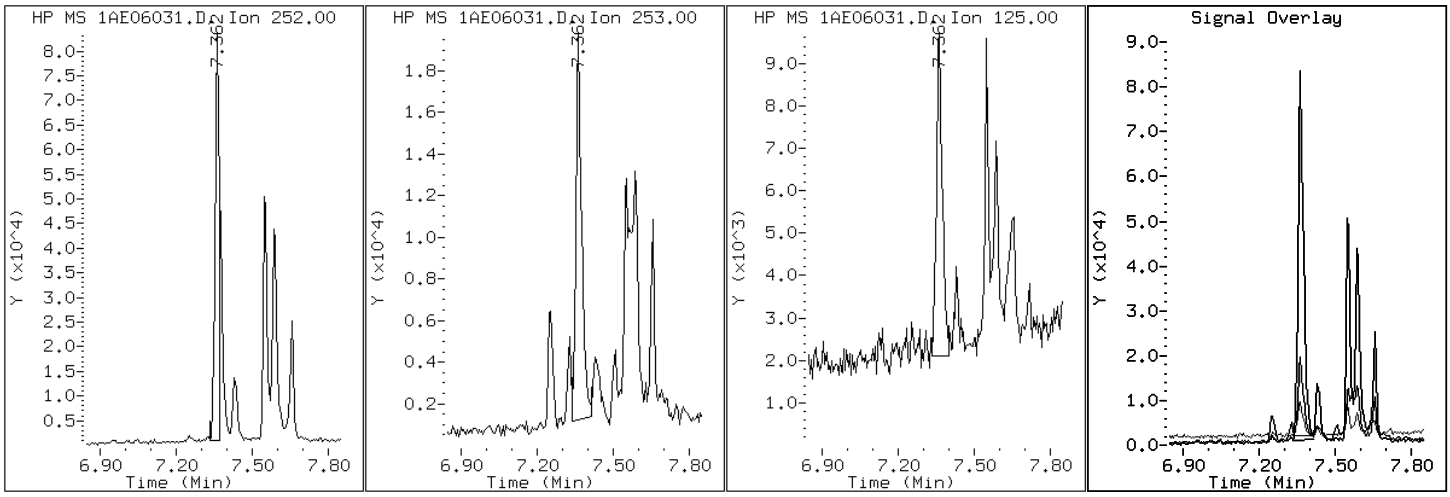
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



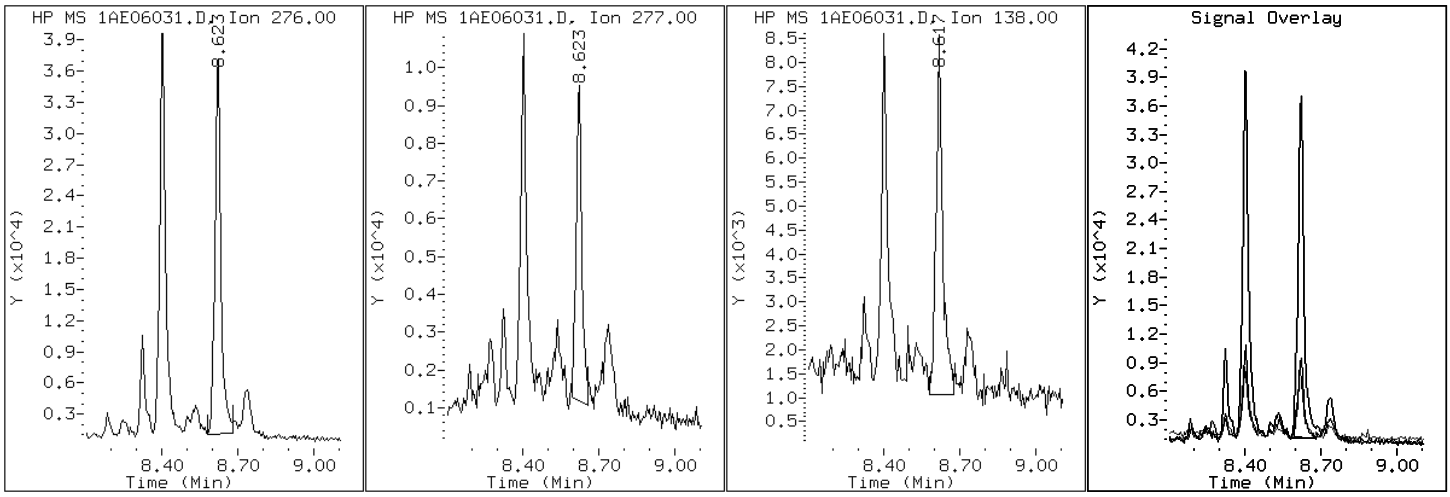
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



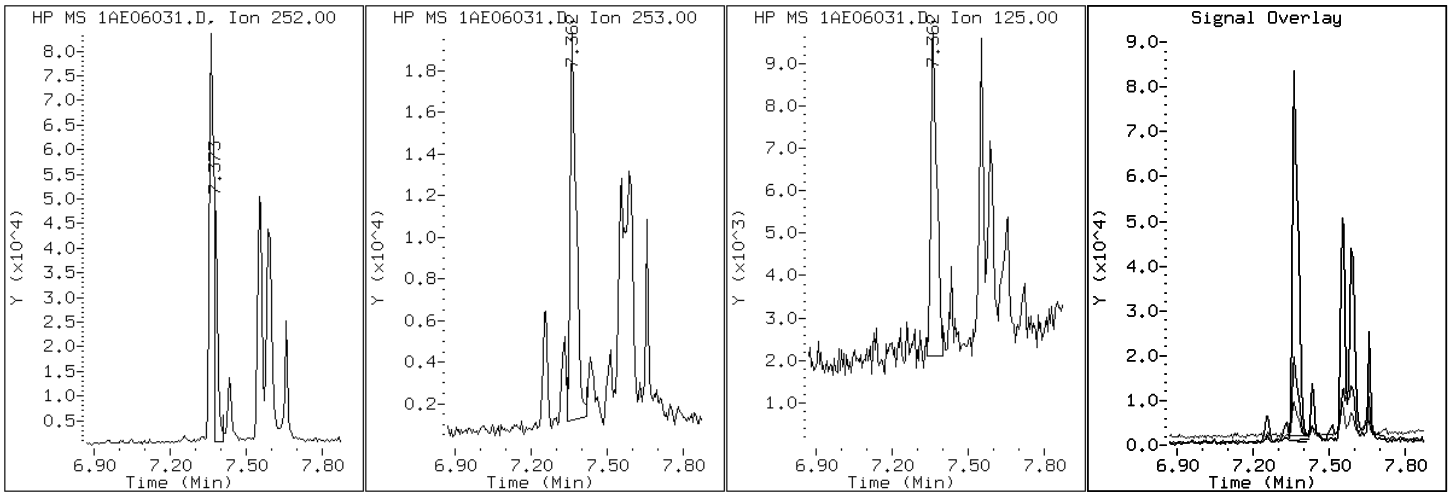
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

21 Benzo(k)fluoranthene



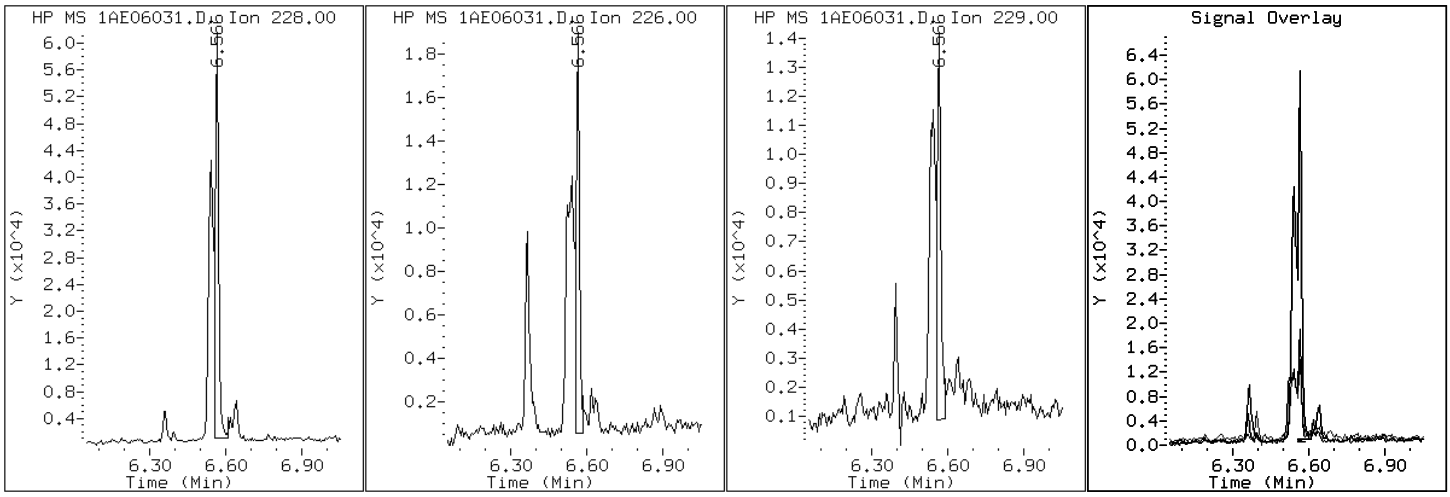
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

19 Chrysene



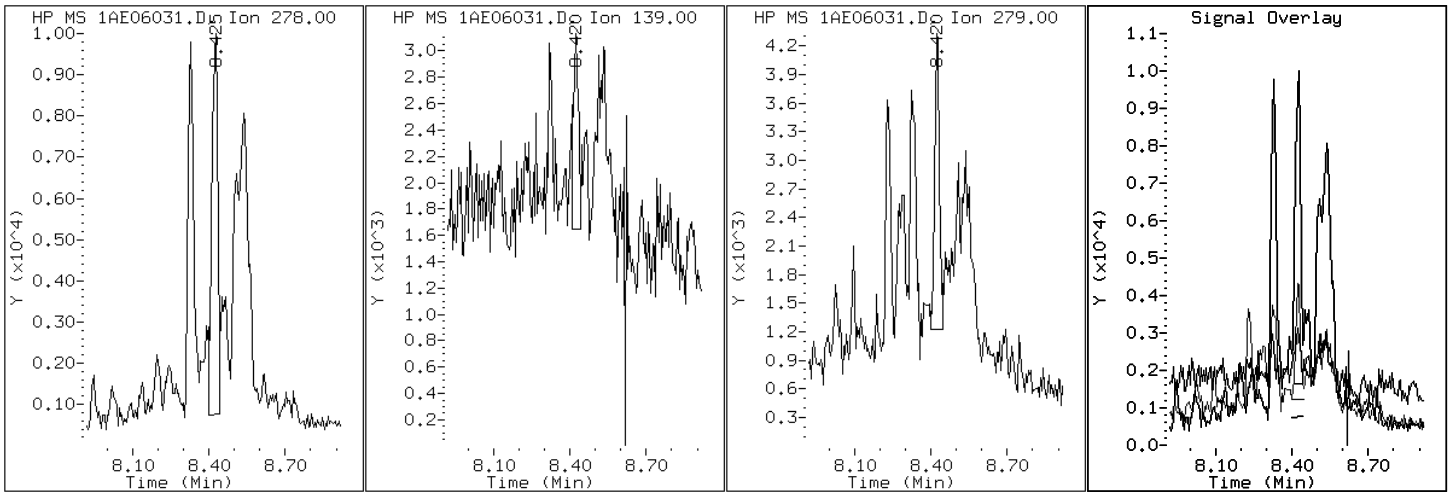
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

25 Dibenzo(a,h)anthracene



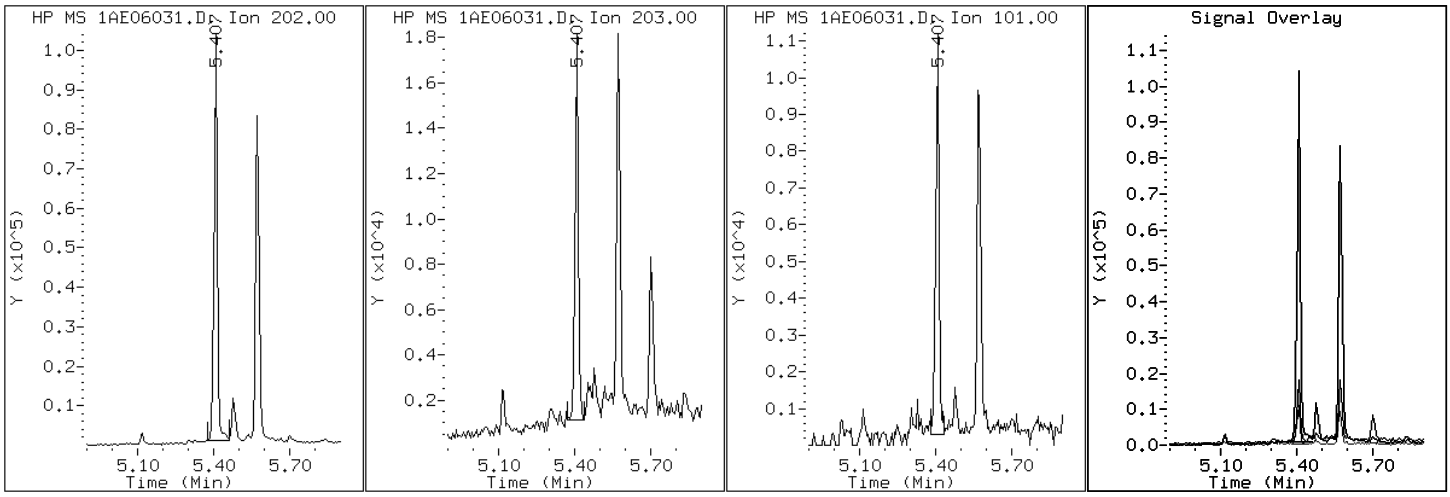
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

15 Fluoranthene



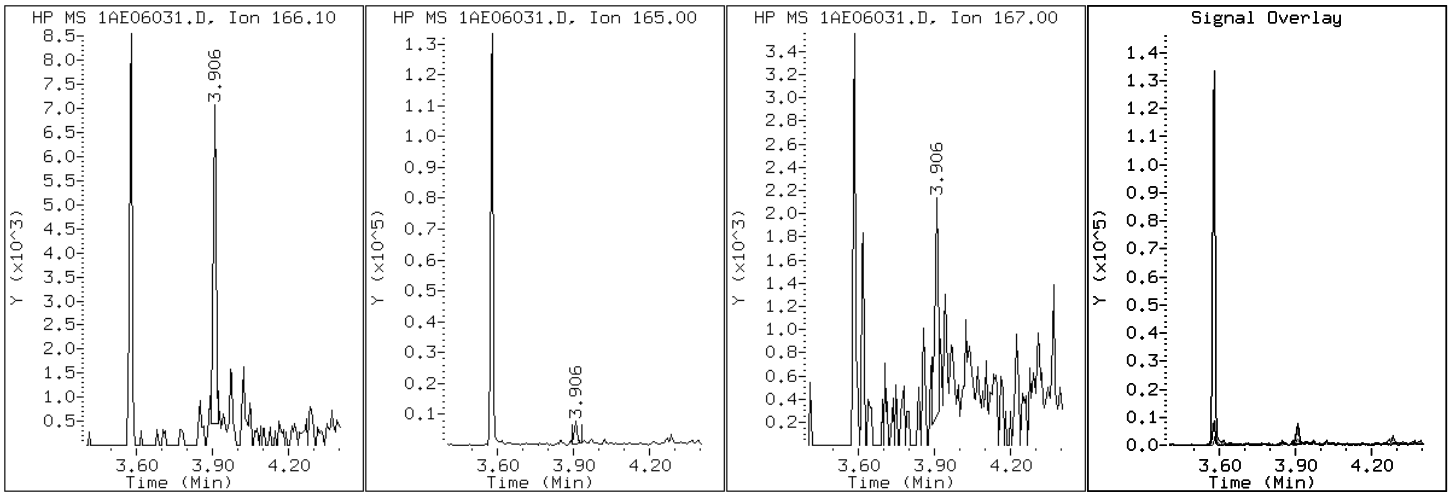
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

9 Fluorene



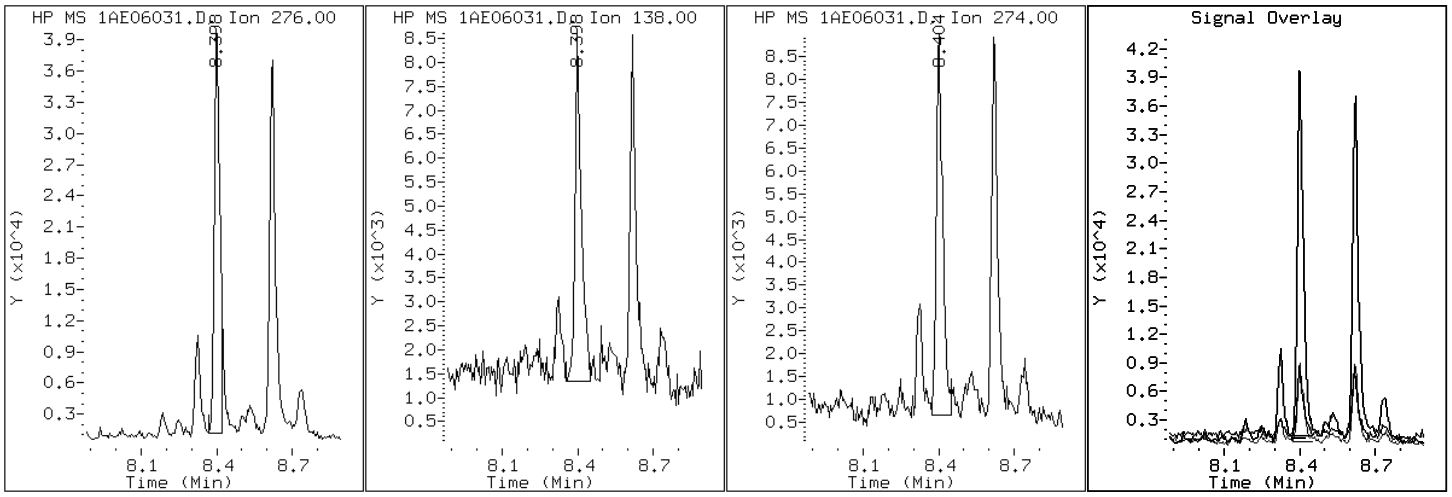
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

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



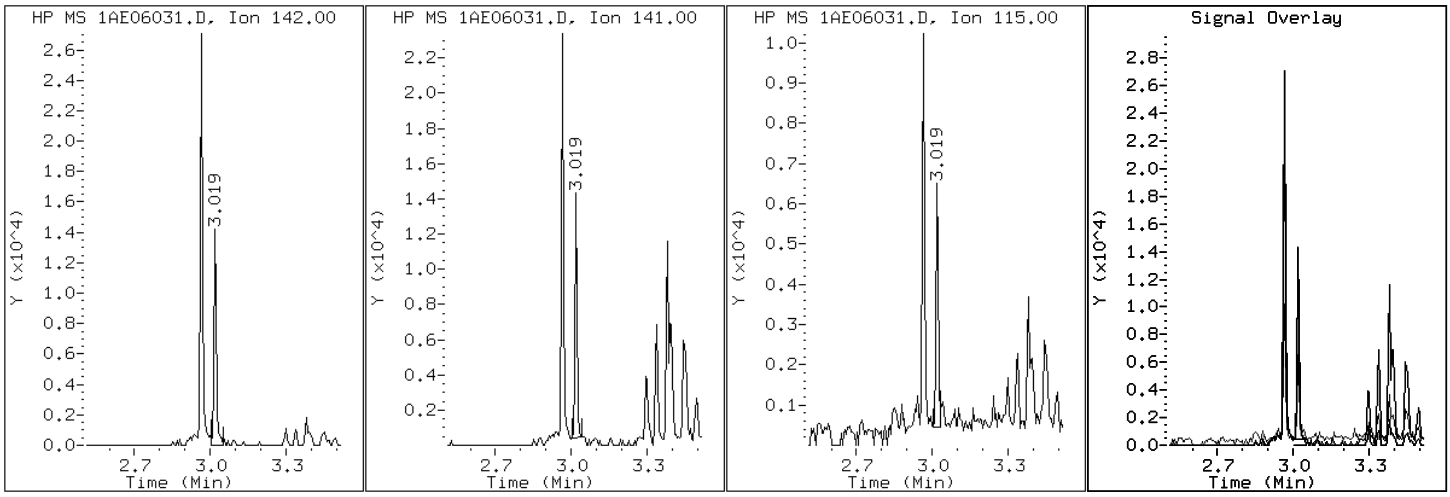
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

4 1-Methylnaphthalene



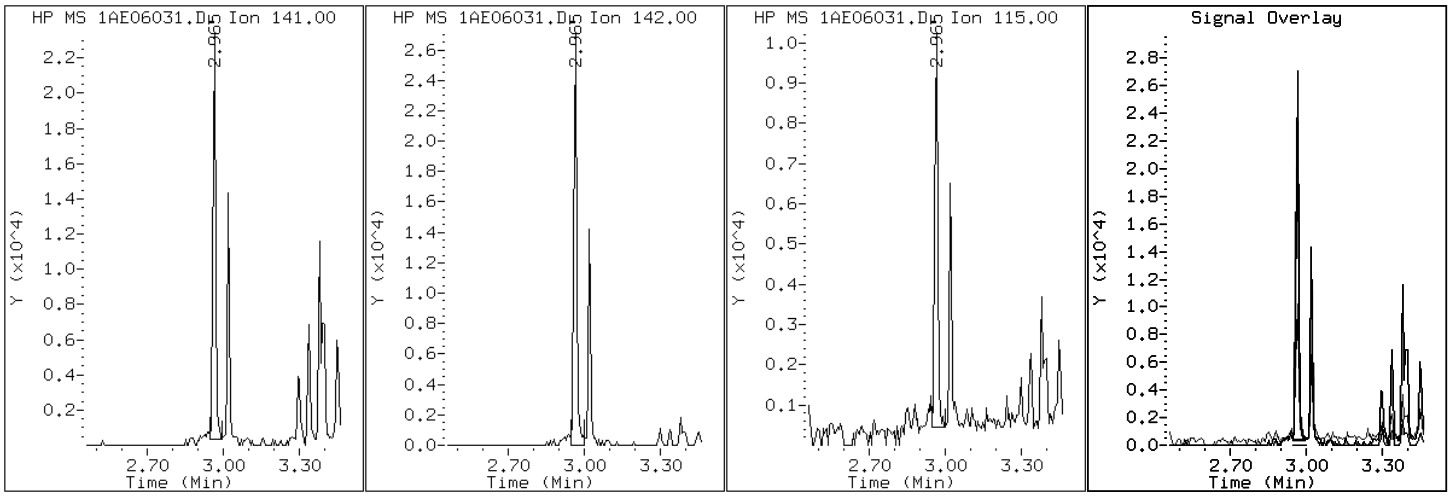
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

3 2-Methylnaphthalene



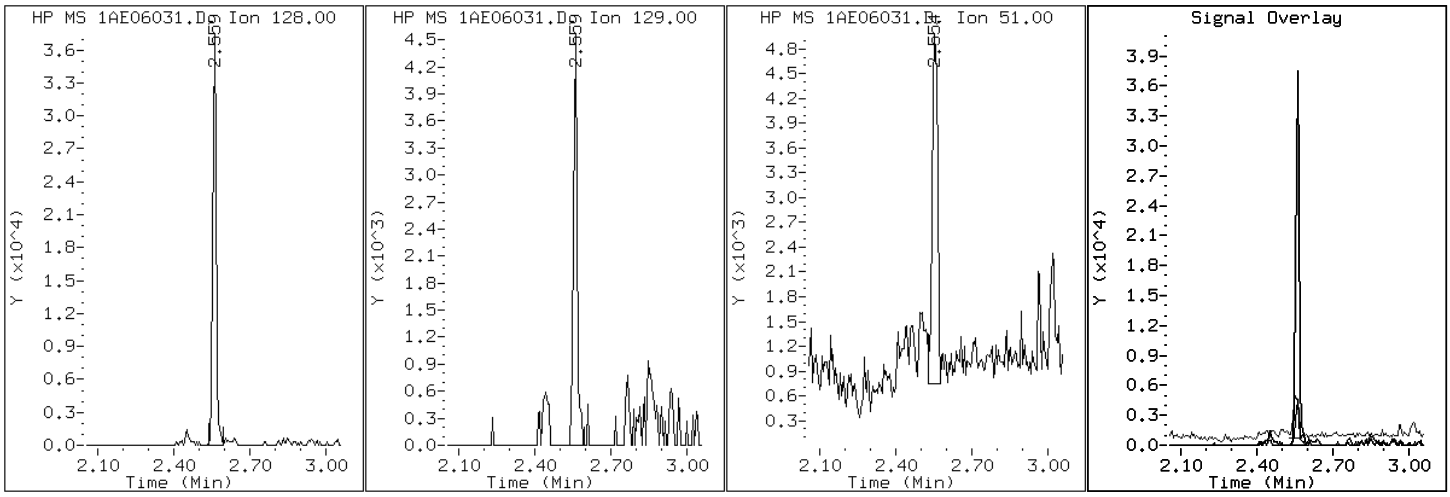
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

2 Naphthalene



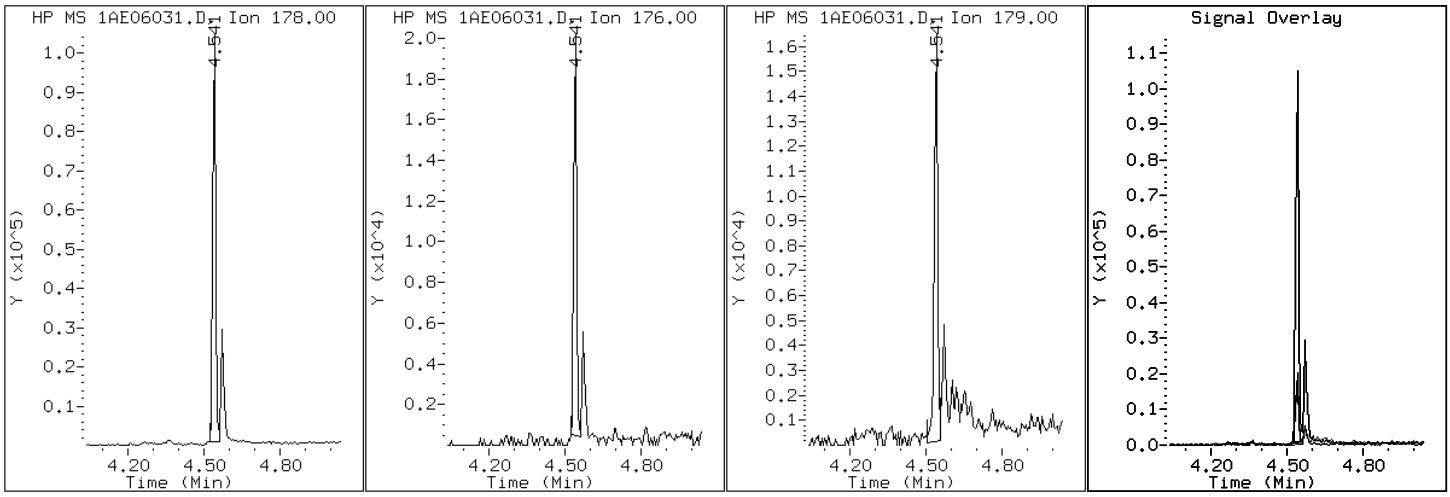
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

11 Phenanthrene



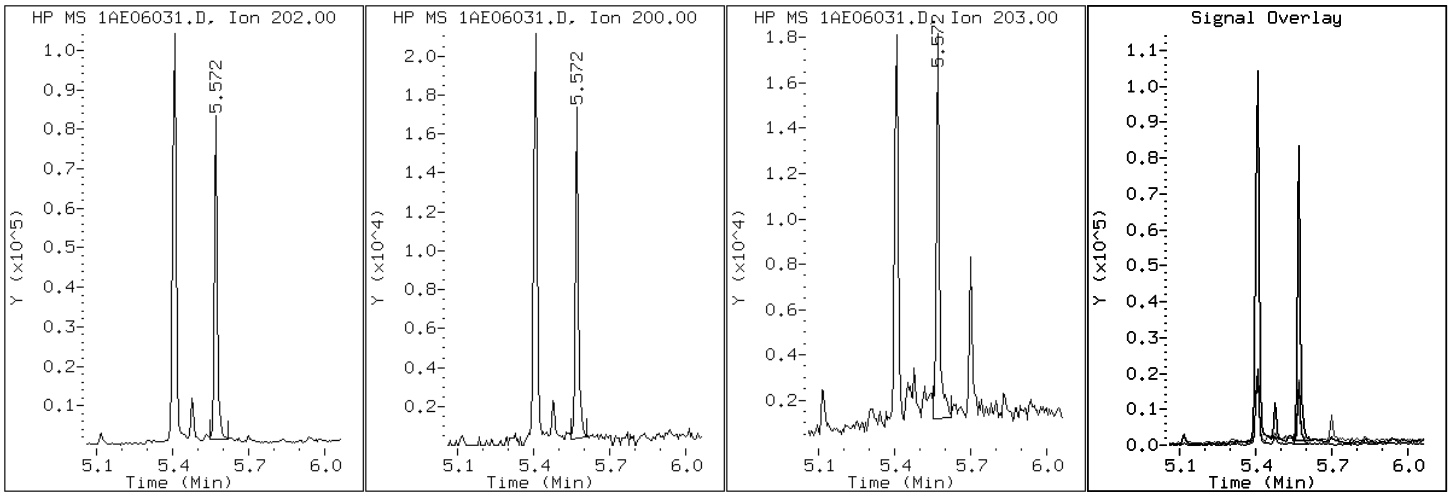
Data File: 1AE06031.D

Date: 06-MAY-2013 18:27

Client ID: CV0670A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-7-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06031.D
Inj. Date and Time: 06-MAY-2013 18:27
Instrument ID: BSMA5973.i
Client ID: CV0670A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

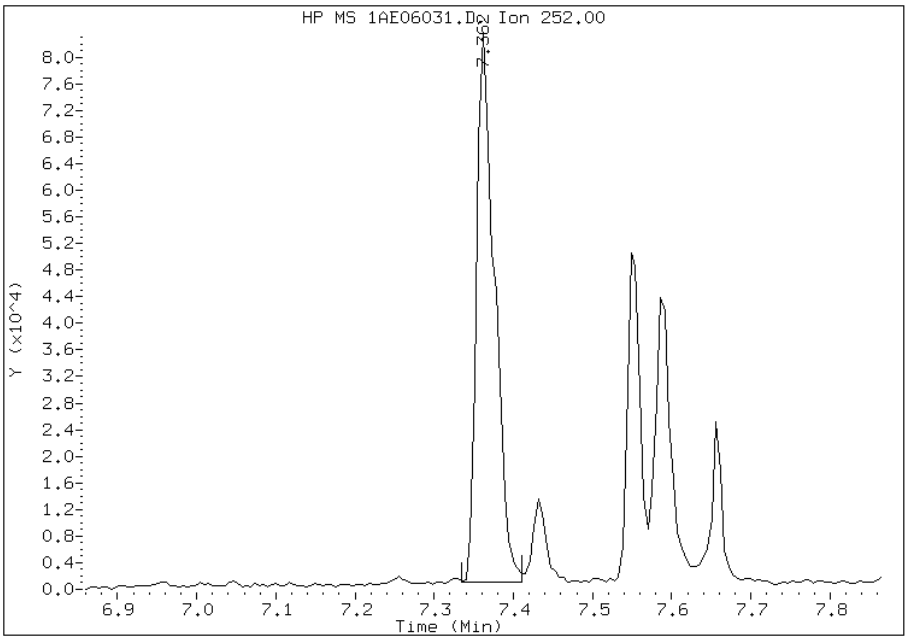
Processing Integration Results

RT: 7.36

Response: 129047

Amount: 4

Conc: 1249



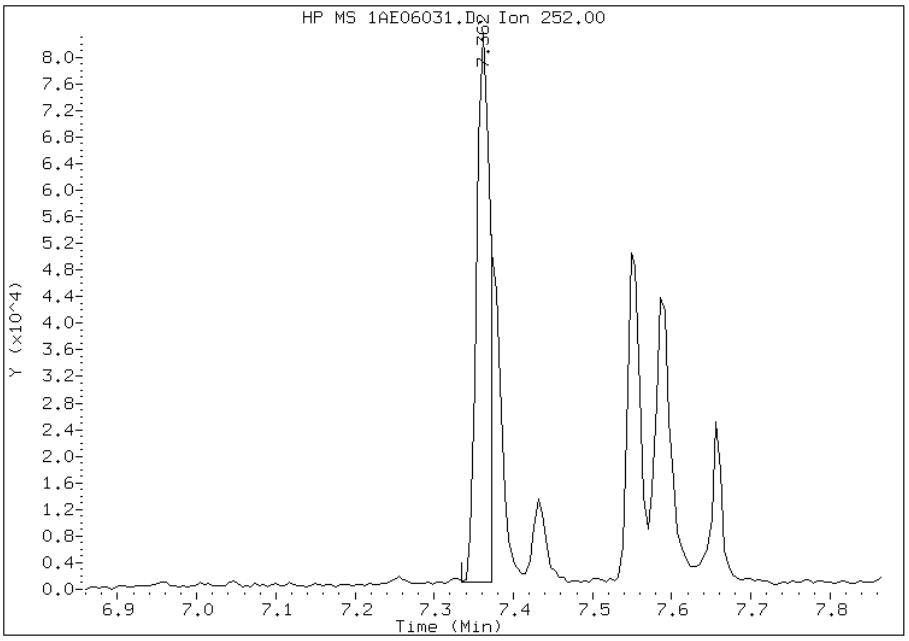
Manual Integration Results

RT: 7.36

Response: 96763

Amount: 3

Conc: 936



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06031.D
Inj. Date and Time: 06-MAY-2013 18:27
Instrument ID: BSMA5973.i
Client ID: CV0670A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

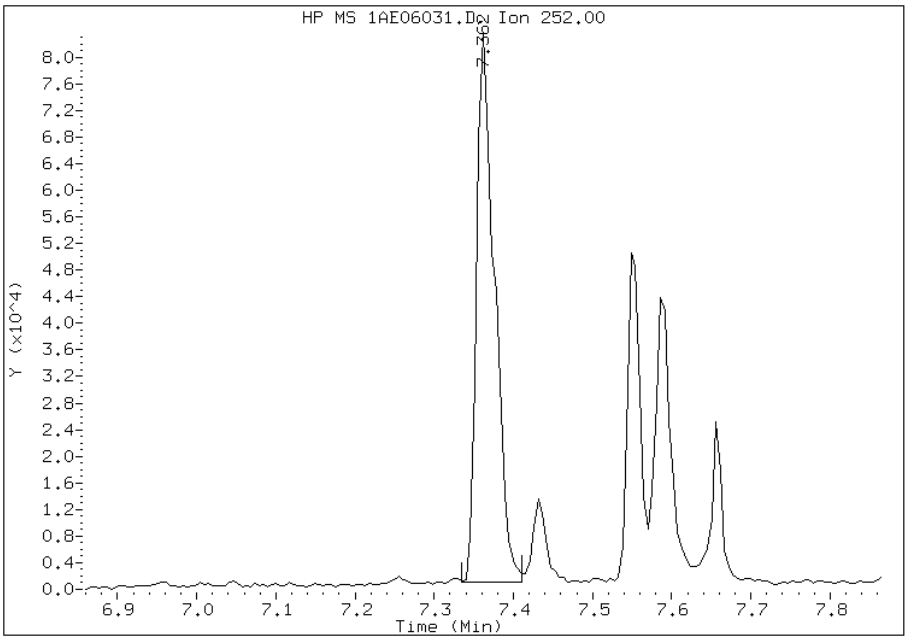
Processing Integration Results

RT: 7.36

Response: 129047

Amount: 3

Conc: 1007



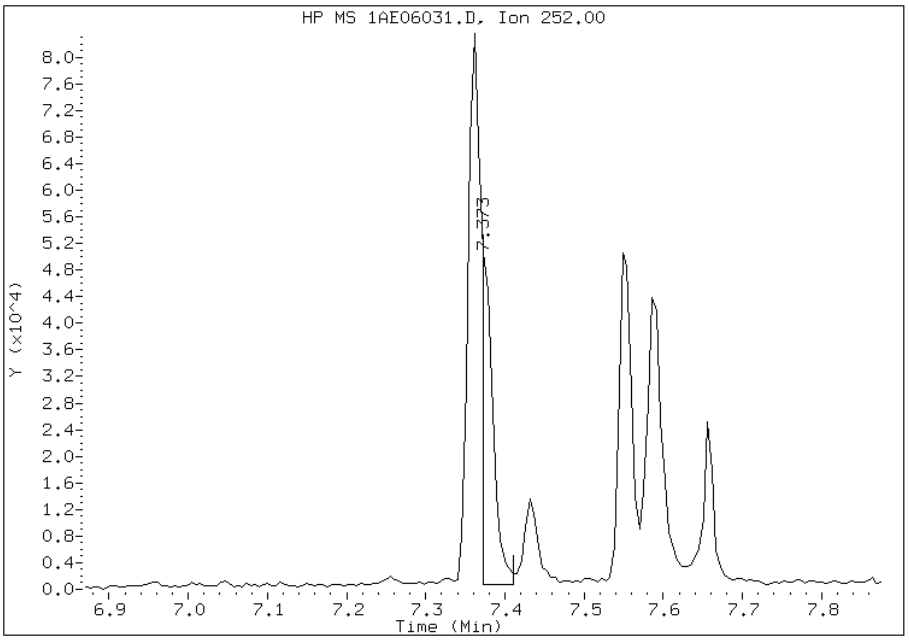
Manual Integration Results

RT: 7.37

Response: 48963

Amount: 1

Conc: 382



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06031.D
Inj. Date and Time: 06-MAY-2013 18:27
Instrument ID: BSMA5973.i
Client ID: CV0670A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

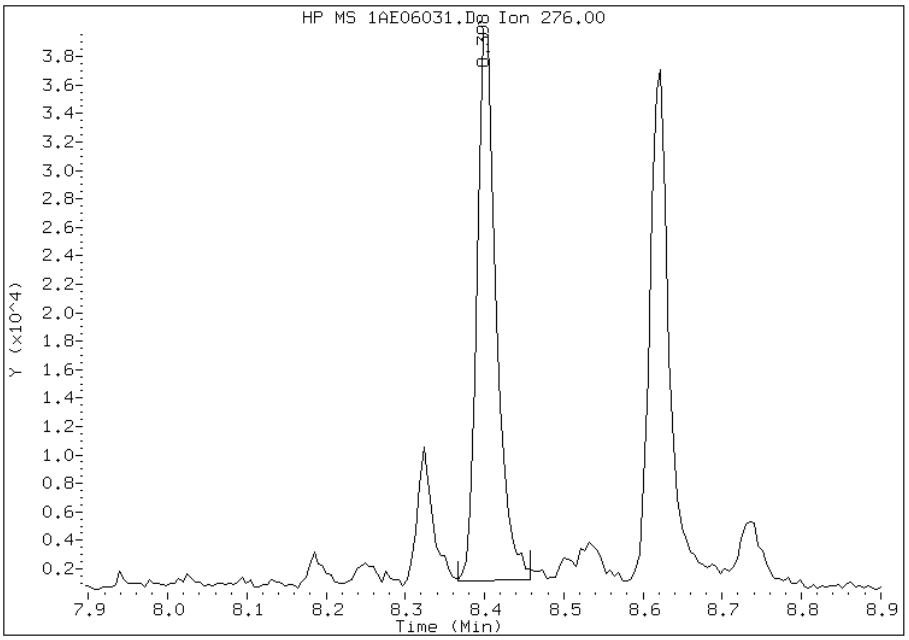
Processing Integration Results

RT: 8.40

Response: 65134

Amount: 2

Conc: 733



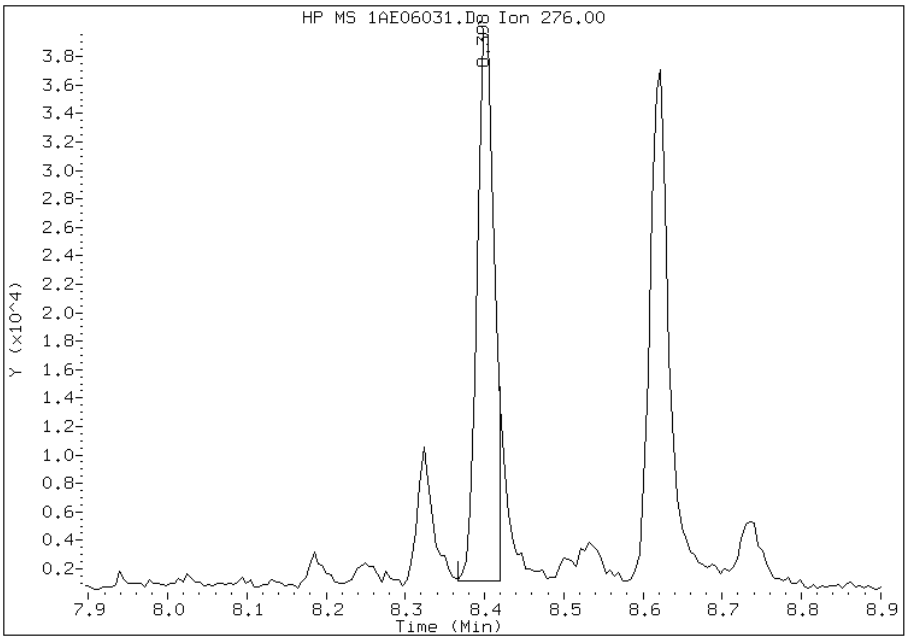
Manual Integration Results

RT: 8.40

Response: 58652

Amount: 2

Conc: 660



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0670B-CS-SP | Lab Sample ID: 680-89896-8

Matrix: Solid | Lab File ID: 1AE06032.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 09:15

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 14.97(g) | Date Analyzed: 05/06/2013 18:42

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

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

% Moisture: 15.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	75		47	5.9
120-12-7	Anthracene	93		9.9	5.0
56-55-3	Benzo[a]anthracene	280		9.5	4.6
50-32-8	Benzo[a]pyrene	260		12	6.1
205-99-2	Benzo[b]fluoranthene	370		14	7.2
191-24-2	Benzo[g,h,i]perylene	190		24	5.2
207-08-9	Benzo[k]fluoranthene	190		9.5	4.3
218-01-9	Chrysene	260		11	5.3
53-70-3	Dibenz(a,h)anthracene	63		24	4.8
206-44-0	Fluoranthene	380		24	4.7
86-73-7	Fluorene	20	J	24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	190		24	8.4
90-12-0	1-Methylnaphthalene	56		47	5.2
91-57-6	2-Methylnaphthalene	77		47	8.4
91-20-3	Naphthalene	110		47	5.2
85-01-8	Phenanthrene	220		9.5	4.6
129-00-0	Pyrene	290		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	50		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06032.D
Lab Smp Id: 680-89896-A-8-A Client Smp ID: CV0670B-CS-SP
Inj Date : 06-MAY-2013 18:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-8-a
Misc Info : 680-89896-A-8-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	15.203	% 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)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.549	2.544	(1.000)	1339847	40.0000	
* 6 Acenaphthene-d10	164	3.580	3.575	(1.000)	686057	40.0000	
* 10 Phenanthrene-d10	188	4.531	4.521	(1.000)	969248	40.0000	
$ 14 o-Terphenyl	230	4.825	4.820	(1.065)	69781	5.03033	396.2713
* 18 Chrysene-d12	240	6.555	6.535	(1.000)	1000776	40.0000	
* 23 Perylene-d12	264	7.651	7.630	(1.000)	1262722	40.0000	
2 Naphthalene	128	2.560	2.555	(1.004)	42403	1.34390	105.8673
3 2-Methylnaphthalene	141	2.965	2.961	(1.163)	15580	0.97160	76.5395
4 1-Methylnaphthalene	142	3.019	3.014	(1.184)	13709	0.71326	56.1883
5 Acenaphthylene	152	3.489	3.484	(0.975)	30601	0.94925	74.7782
9 Fluorene	166	3.906	3.901	(1.091)	5463	0.25894	20.3981
11 Phenanthrene	178	4.541	4.537	(1.002)	65776	2.73926	215.7889
12 Anthracene	178	4.573	4.569	(1.009)	30135	1.17813	92.8088
13 Carbazole	167	4.712	4.702	(1.040)	10814	0.47021	37.0415

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.407	5.397	(1.193)	134315	4.86224	383.0299
16 Pyrene	202	5.572	5.562	(0.850)	118067	3.67024	289.1281
17 Benzo(a)anthracene	228	6.550	6.524	(0.999)	98986	3.51936	277.2427
19 Chrysene	228	6.571	6.551	(1.002)	106247	3.35736	264.4809
20 Benzo(b)fluoranthene	252	7.373	7.347	(0.964)	156286	4.68261	368.8788(M)
21 Benzo(k)fluoranthene	252	7.378	7.368	(0.964)	102188	2.46797	194.4181(M)
22 Benzo(a)pyrene	252	7.597	7.576	(0.993)	111470	3.25205	256.1848
24 Indeno(1,2,3-cd)pyrene	276	8.414	8.388	(1.100)	68581	2.38831	188.1424(M)
25 Dibenzo(a,h)anthracene	278	8.431	8.414	(1.102)	23639	0.80310	63.2649
26 Benzo(g,h,i)perylene	276	8.634	8.602	(1.128)	73410	2.37736	187.2796

QC Flag Legend

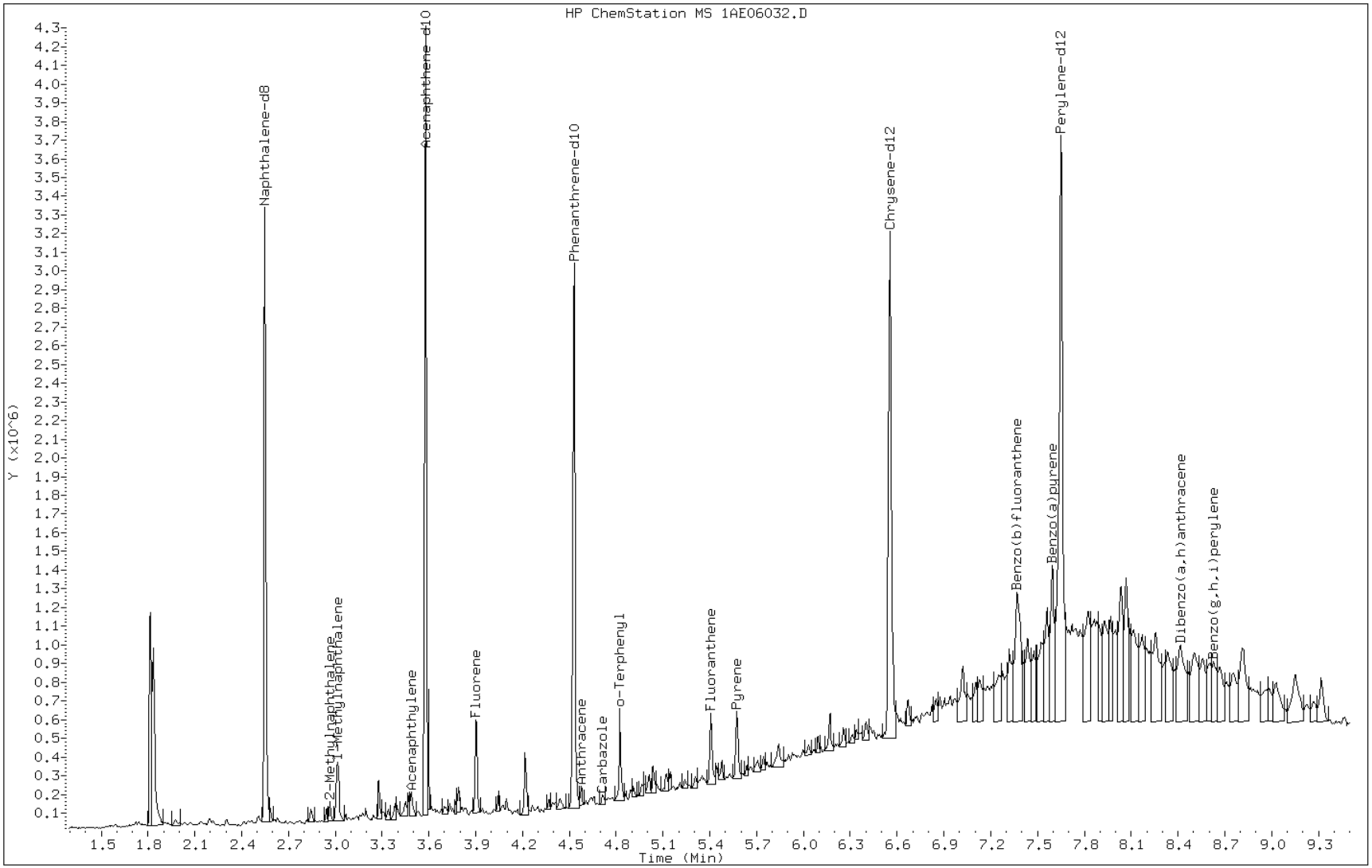
M - Compound response manually integrated.

Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC



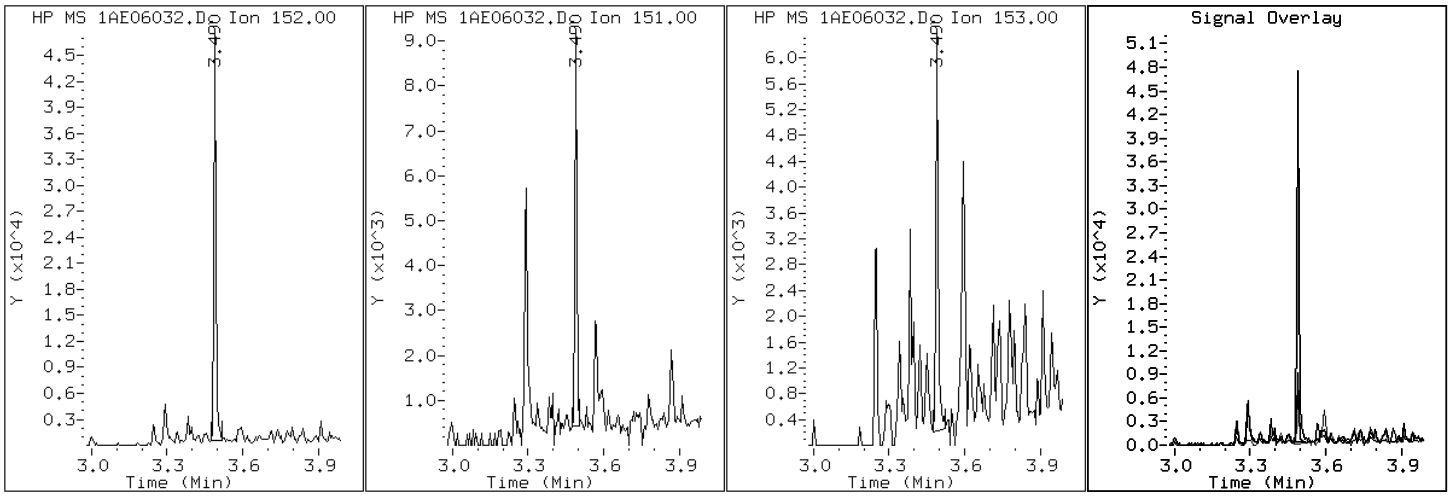
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

5 Acenaphthylene



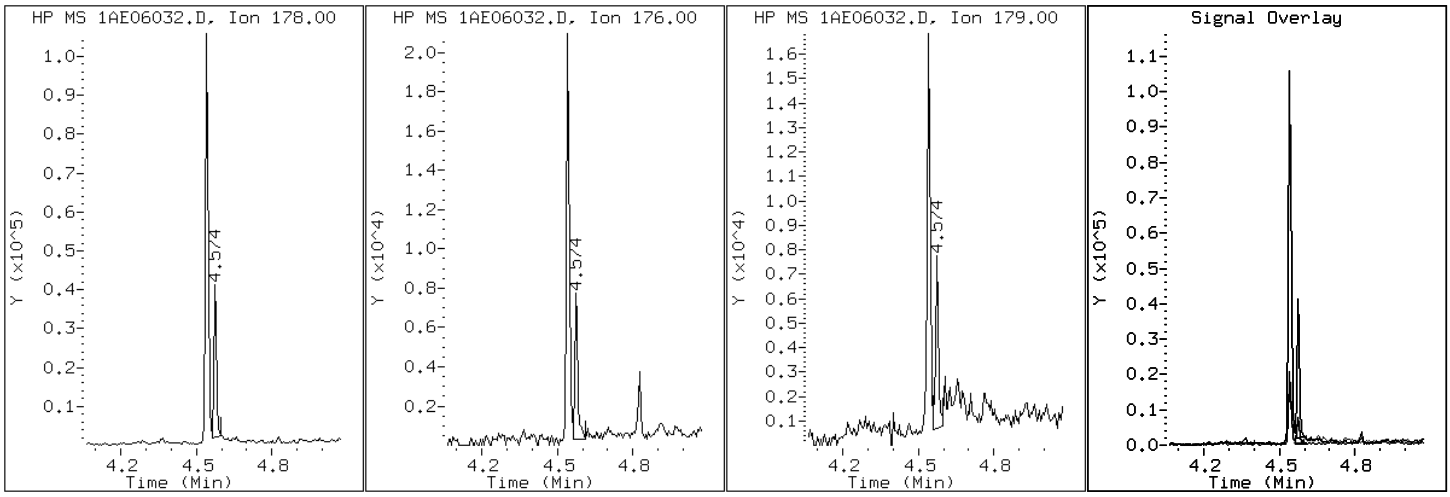
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

12 Anthracene



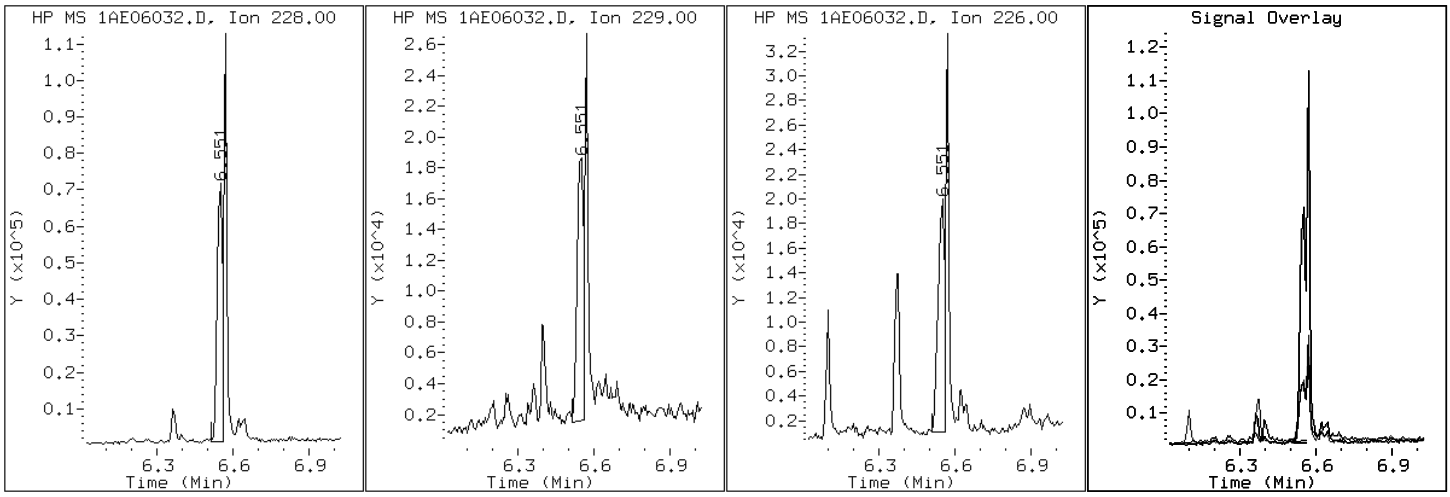
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

17 Benzo(a)anthracene



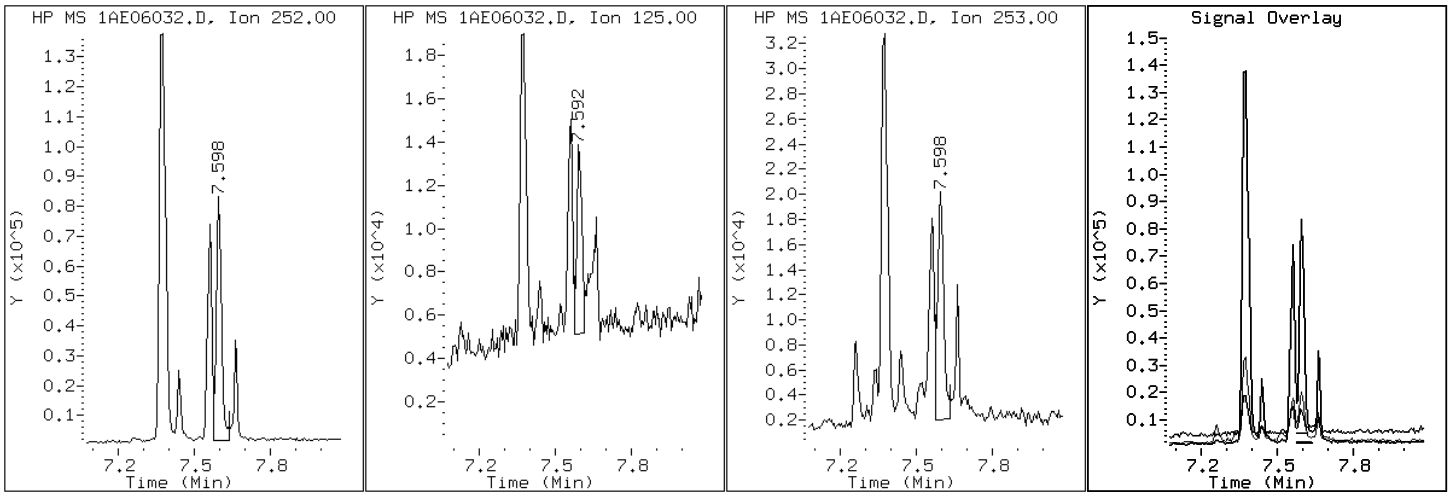
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

22 Benzo(a)pyrene



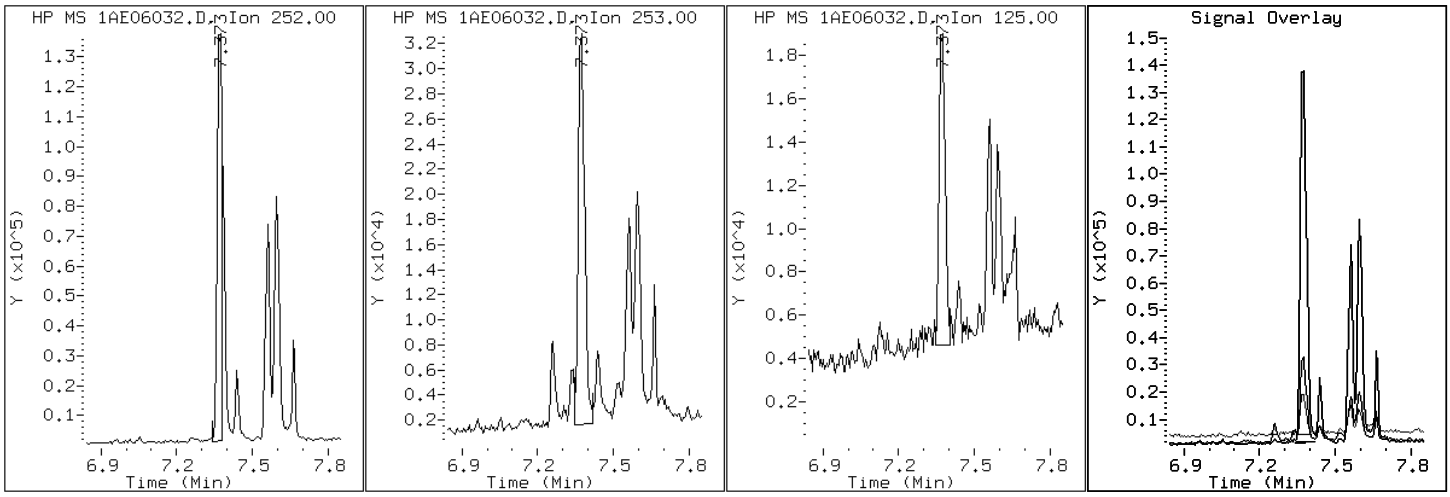
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

20 Benzo(b)fluoranthene



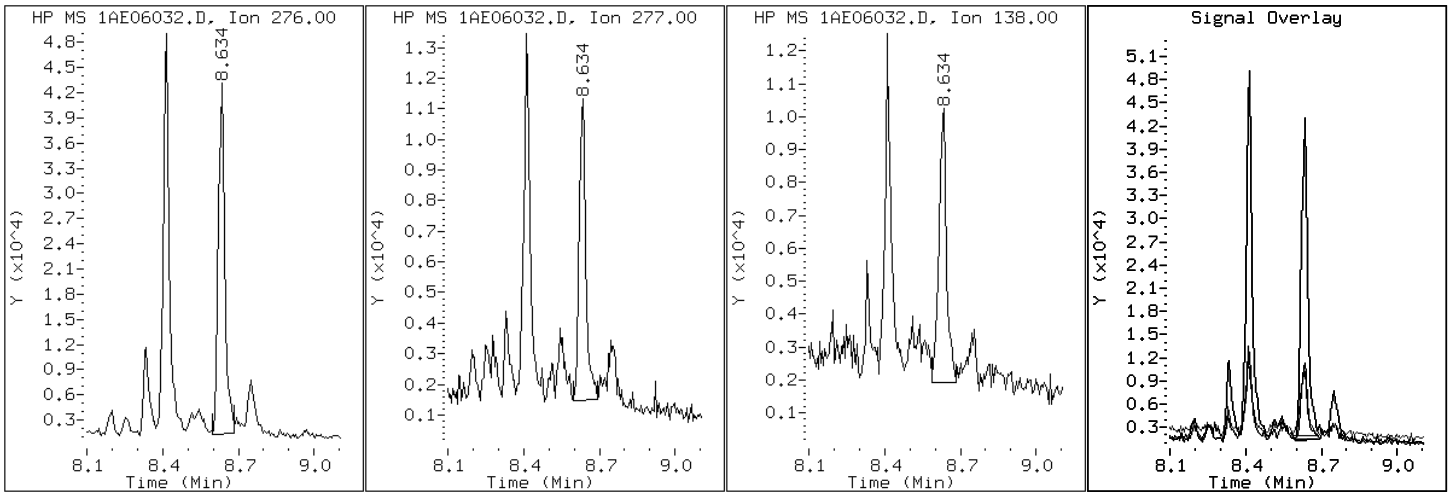
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

26 Benzo(g,h,i)perylene



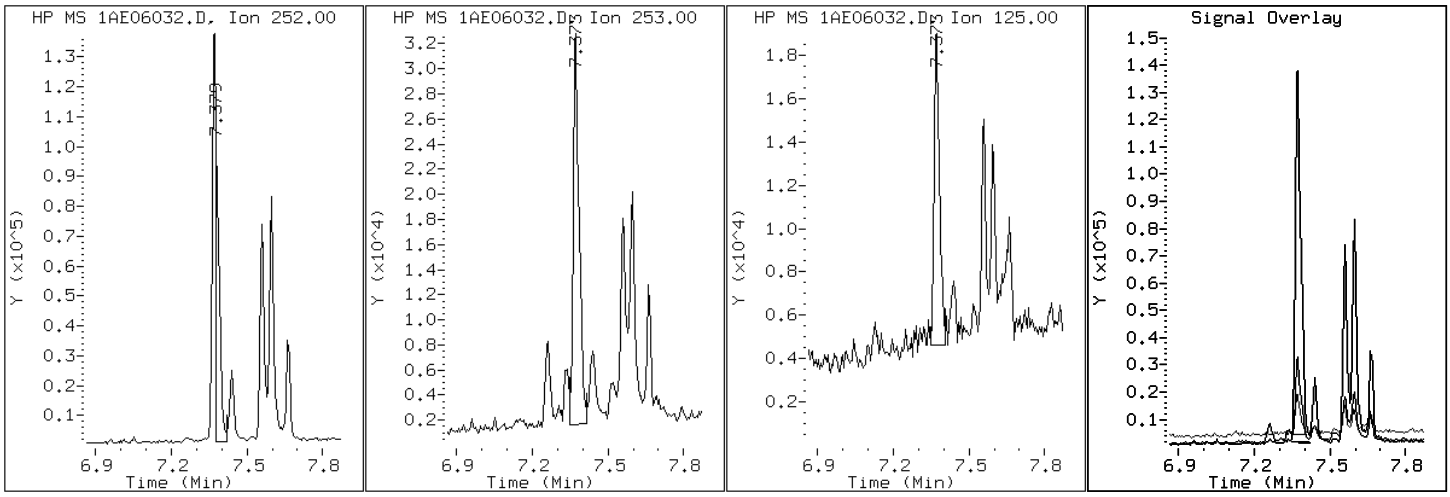
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

21 Benzo(k)fluoranthene



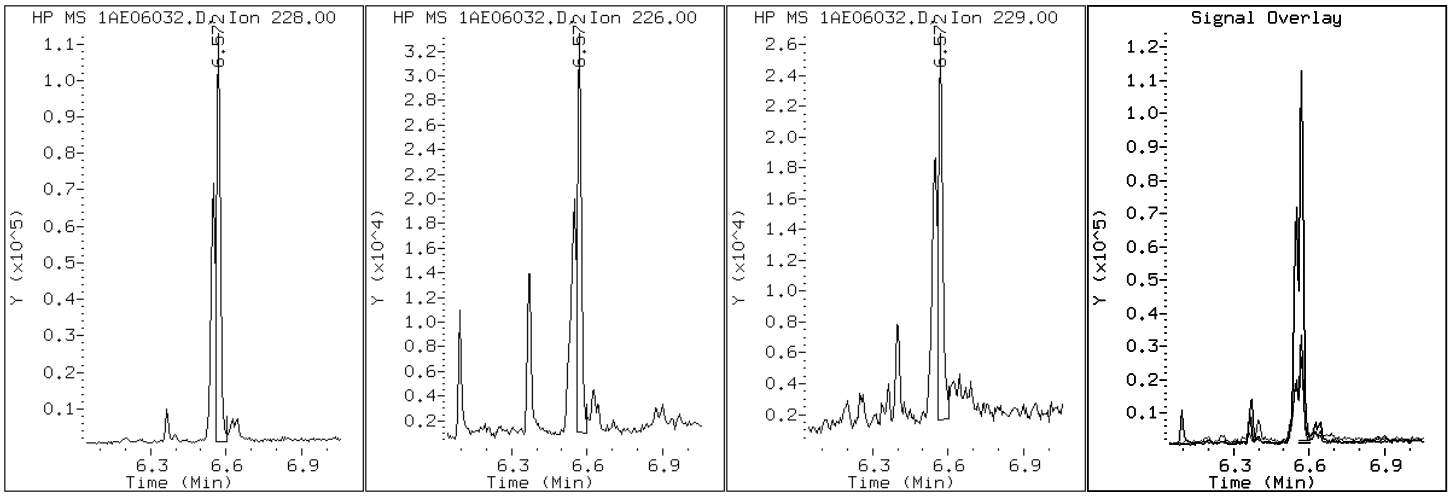
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

19 Chrysene



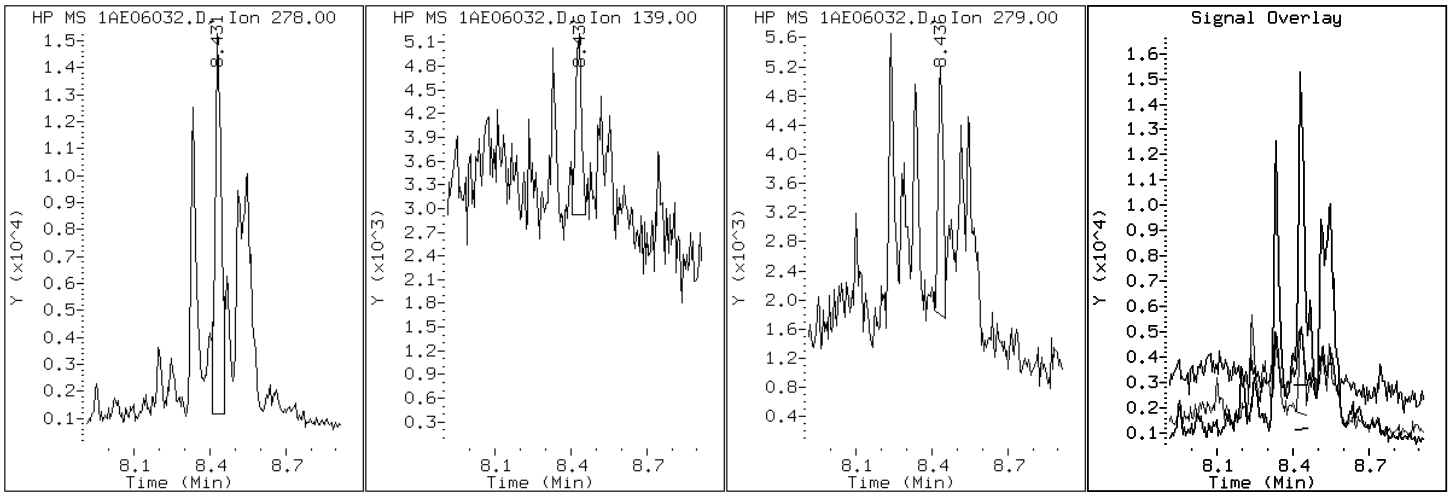
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

25 Dibenzo(a,h)anthracene



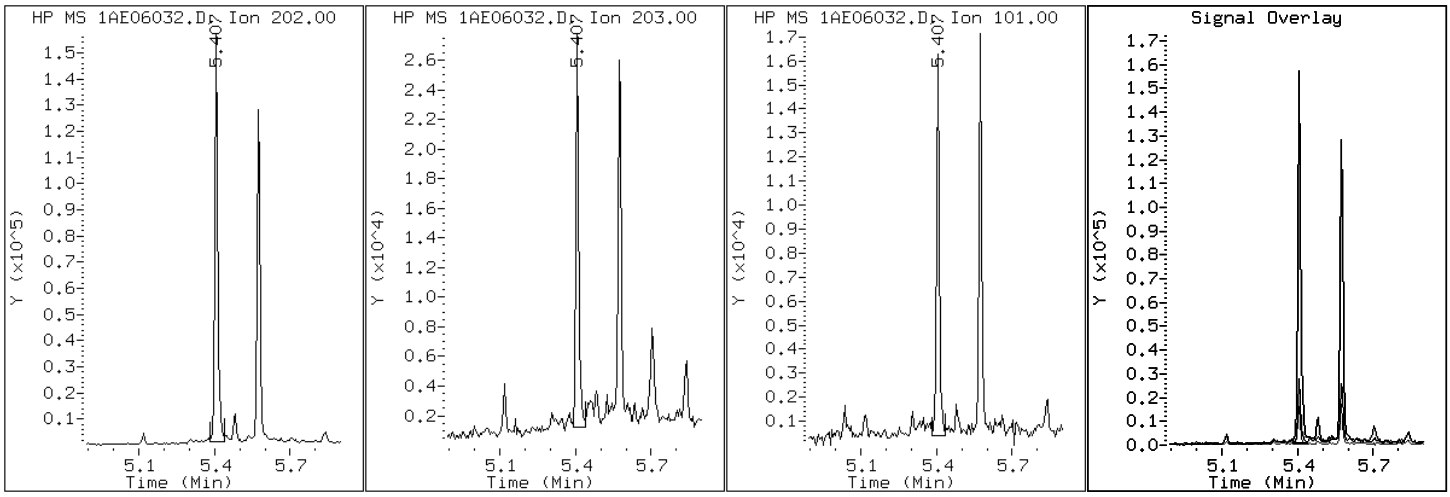
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

15 Fluoranthene



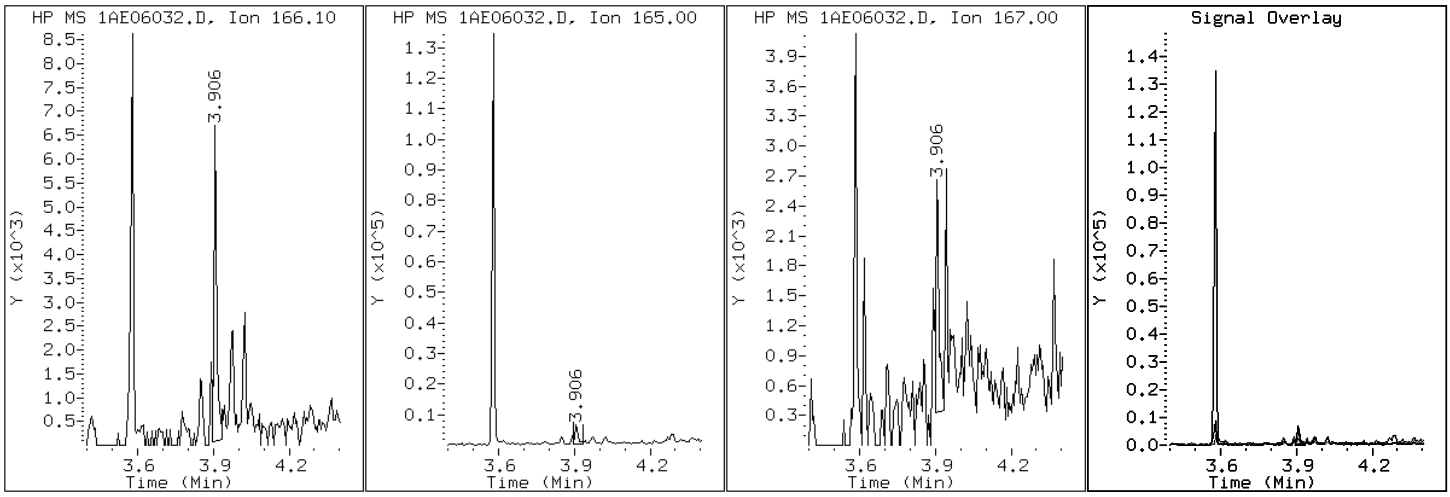
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

9 Fluorene



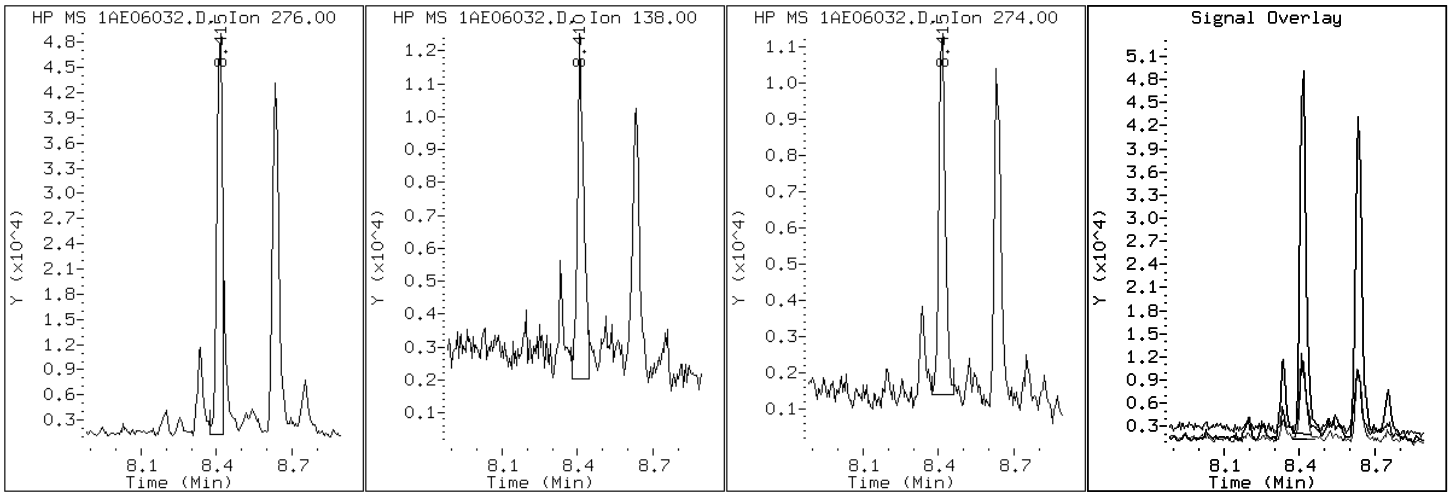
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

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



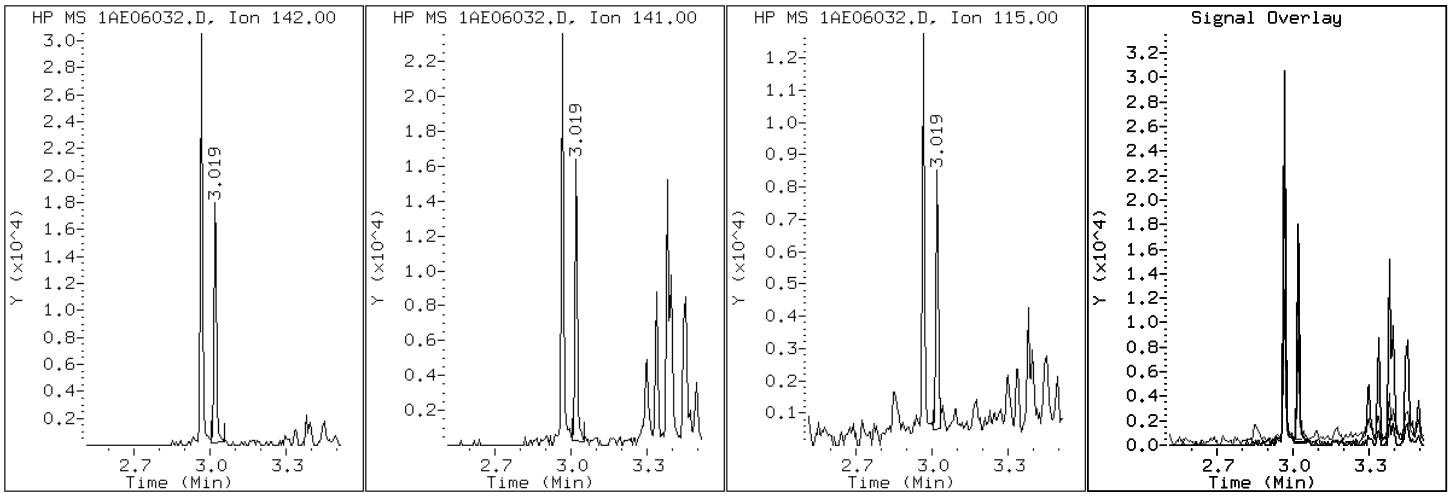
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

4 1-Methylnaphthalene



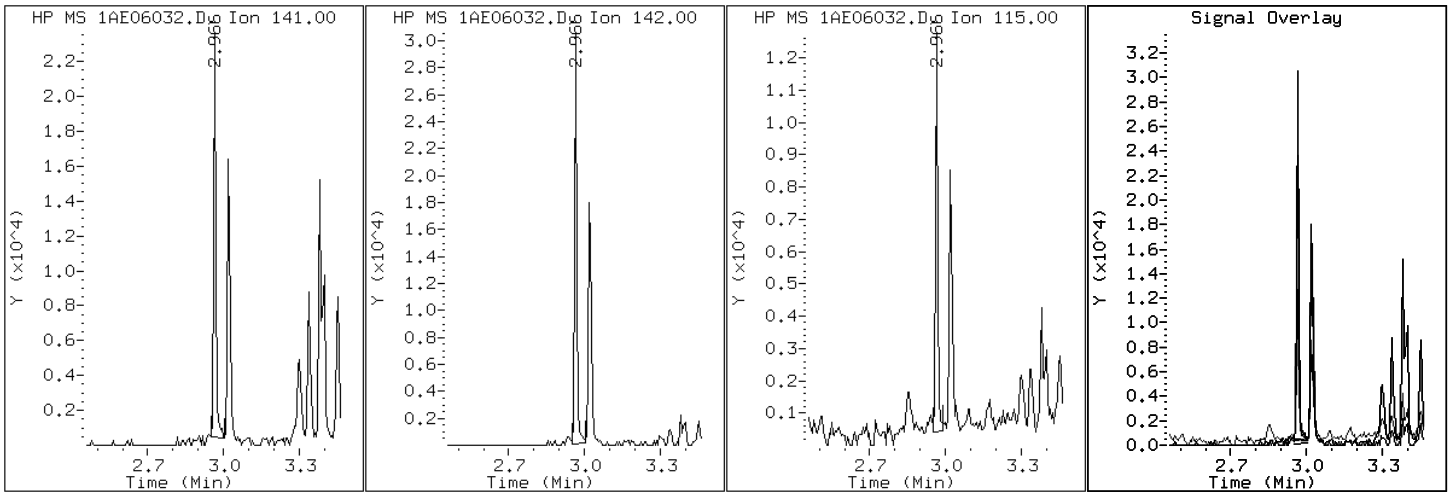
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

3 2-Methylnaphthalene



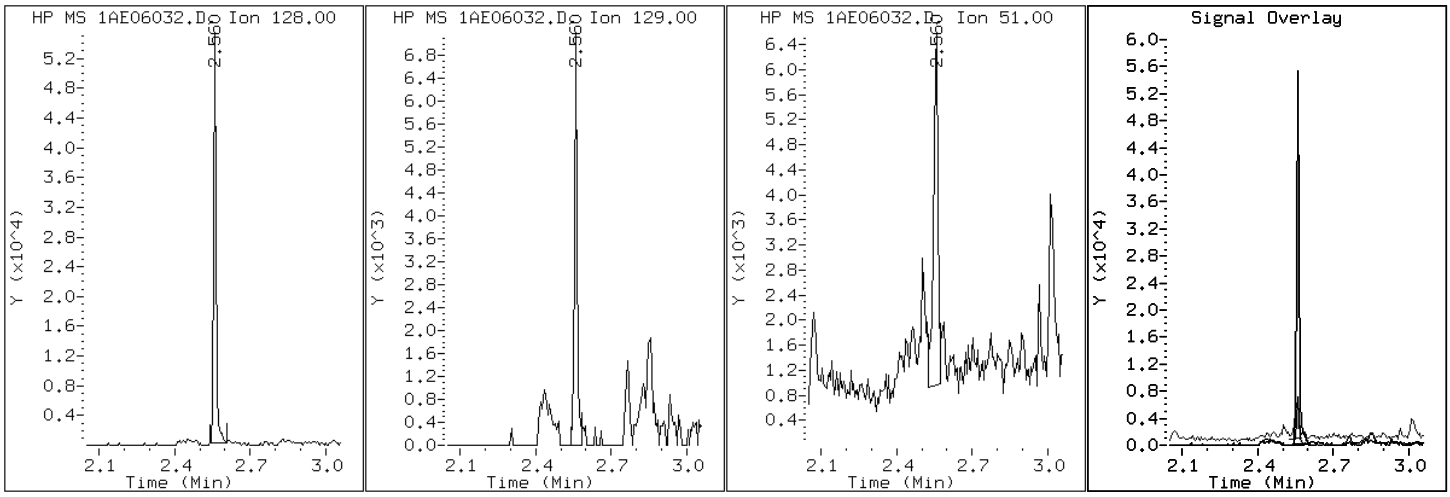
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

2 Naphthalene



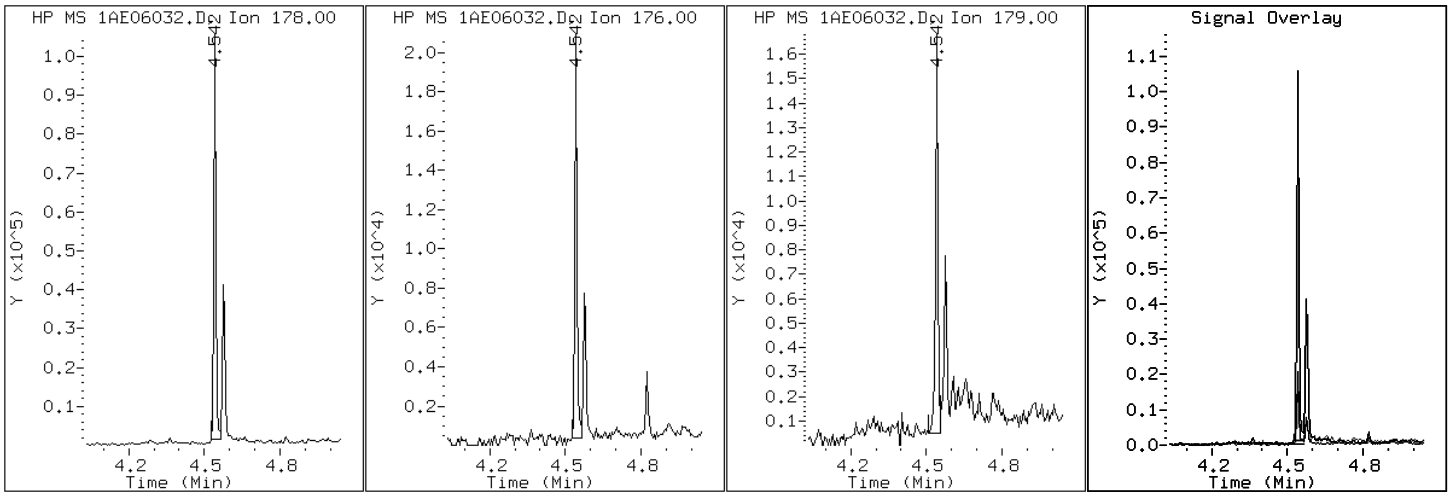
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

11 Phenanthrene



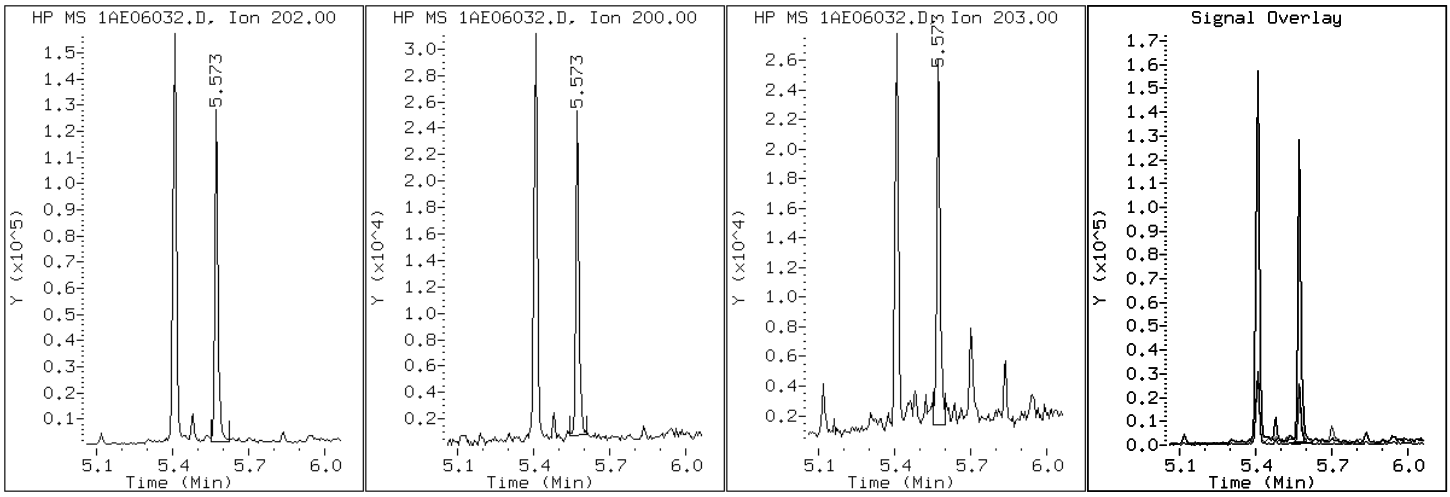
Data File: 1AE06032.D

Date: 06-MAY-2013 18:42

Client ID: CV0670B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-8-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06032.D
Inj. Date and Time: 06-MAY-2013 18:42
Instrument ID: BSMA5973.i
Client ID: CV0670B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

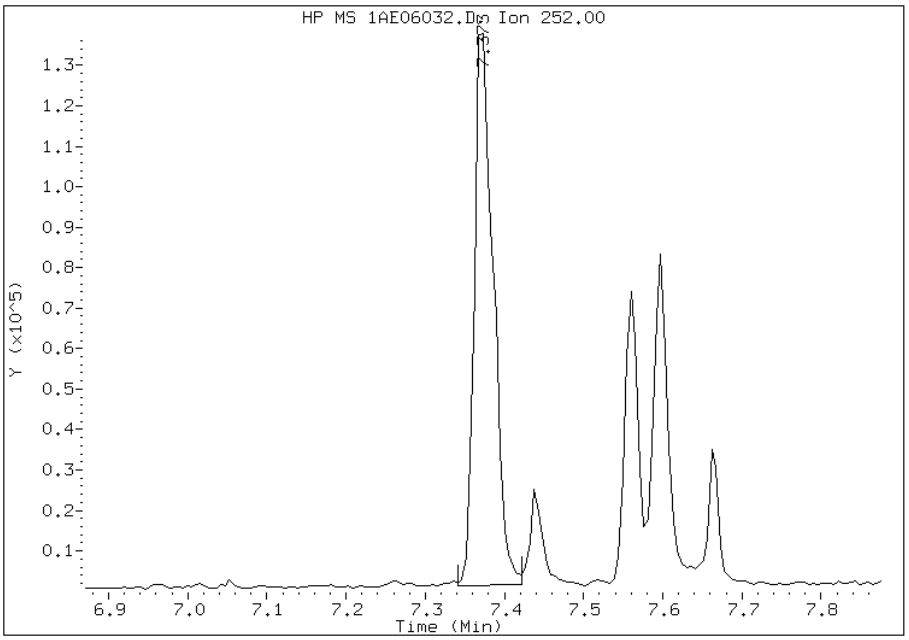
Processing Integration Results

RT: 7.37

Response: 224743

Amount: 7

Conc: 530



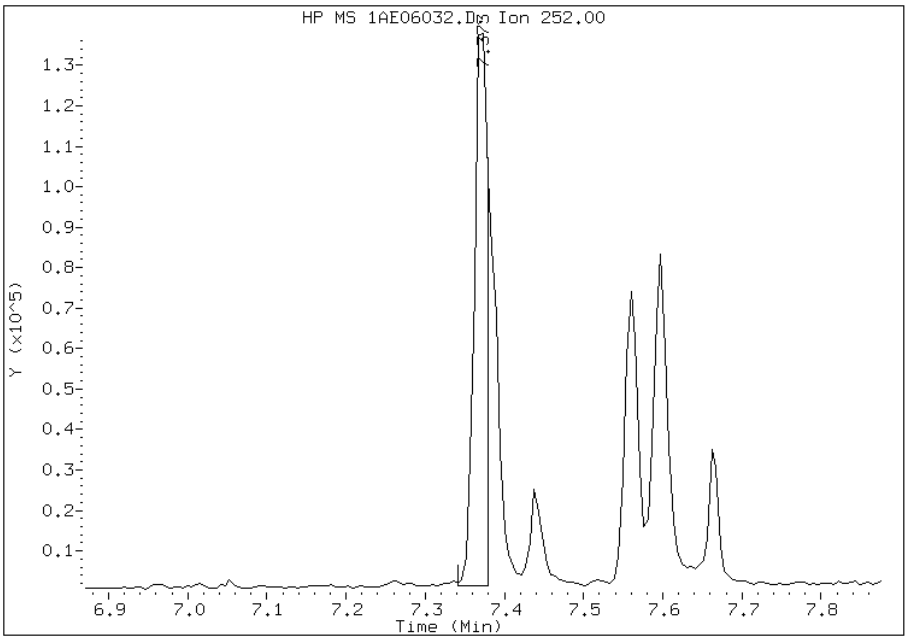
Manual Integration Results

RT: 7.37

Response: 156286

Amount: 5

Conc: 369



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06032.D
Inj. Date and Time: 06-MAY-2013 18:42
Instrument ID: BSMA5973.i
Client ID: CV0670B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

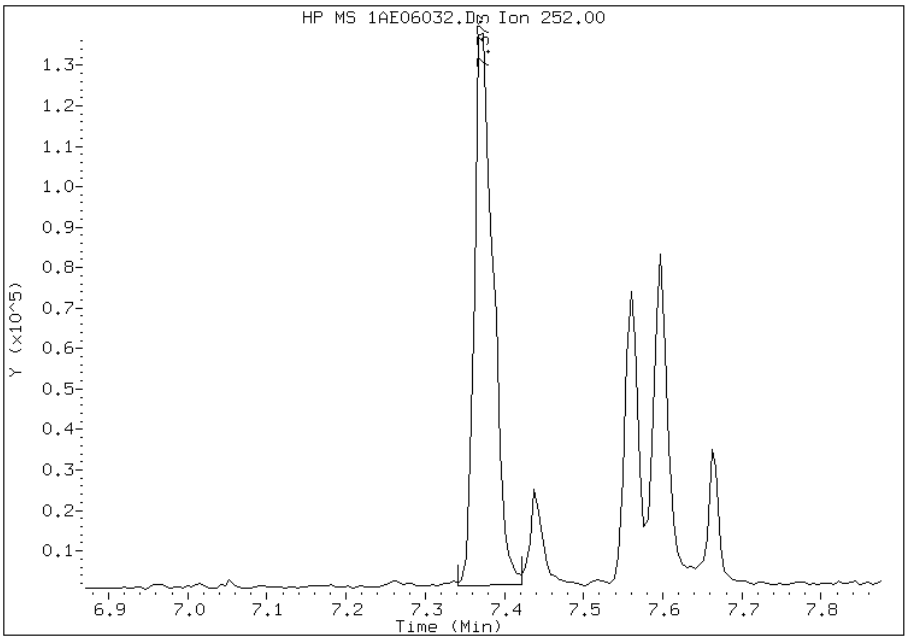
Processing Integration Results

RT: 7.37

Response: 224743

Amount: 5

Conc: 428



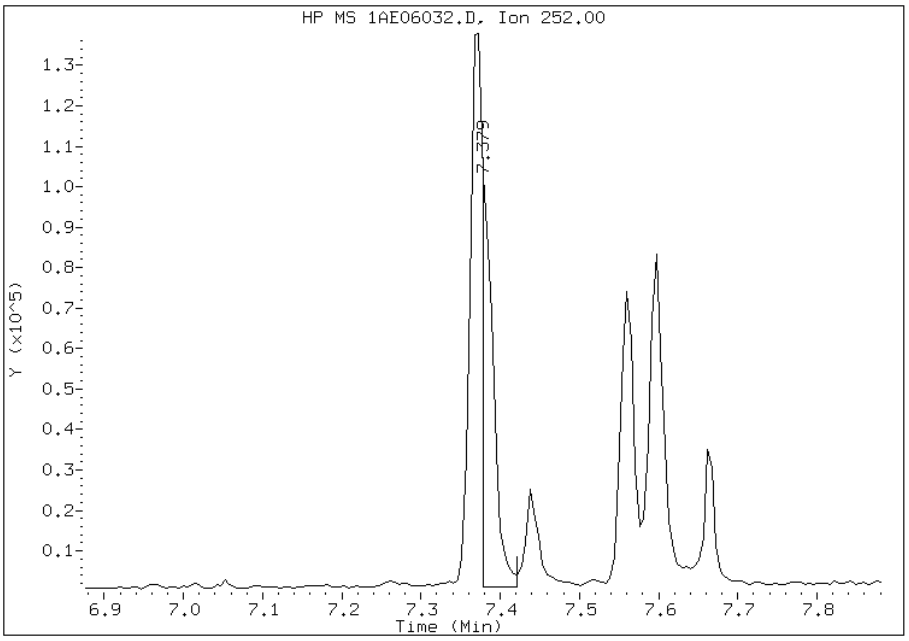
Manual Integration Results

RT: 7.38

Response: 102188

Amount: 2

Conc: 194



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06032.D
Inj. Date and Time: 06-MAY-2013 18:42
Instrument ID: BSMA5973.i
Client ID: CV0670B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

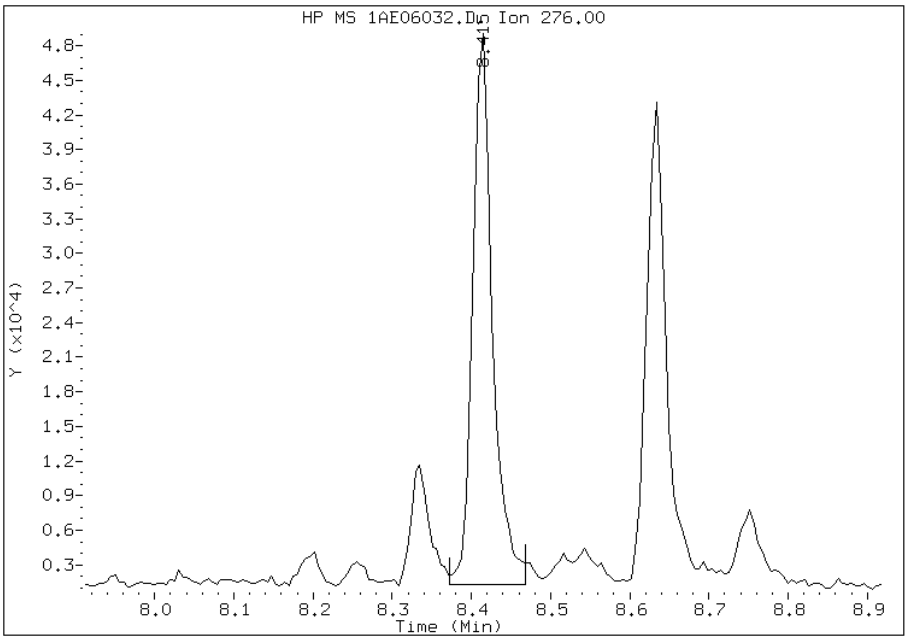
Processing Integration Results

RT: 8.41

Response: 82922

Amount: 3

Conc: 227



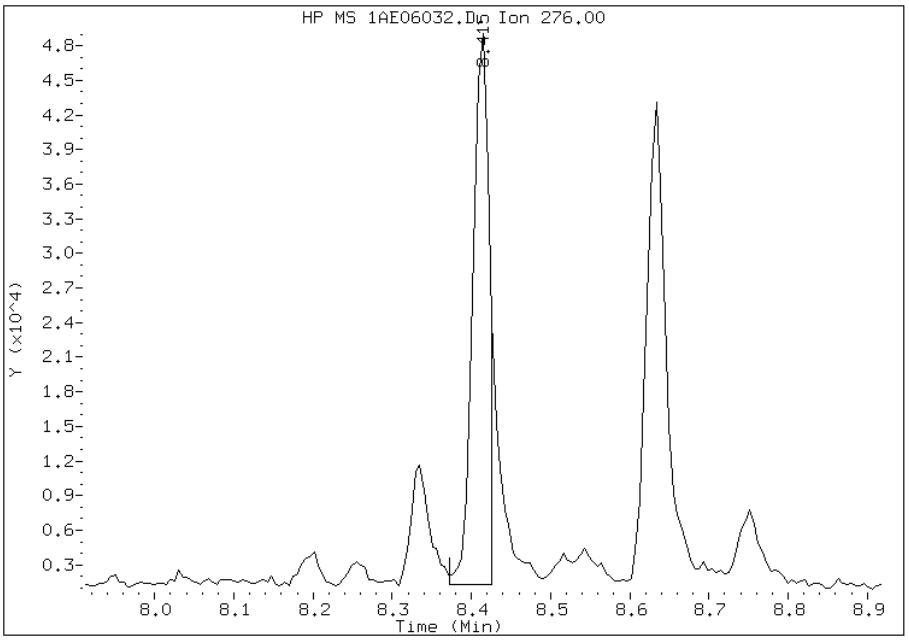
Manual Integration Results

RT: 8.41

Response: 68581

Amount: 2

Conc: 188



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0670C-CS-SP | Lab Sample ID: 680-89896-9

Matrix: Solid | Lab File ID: 1AE06033.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 09:36

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 14.94(g) | Date Analyzed: 05/06/2013 18:57

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

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

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	93
208-96-8	Acenaphthylene	33	J	190	23
120-12-7	Anthracene	110		39	19
56-55-3	Benzo[a]anthracene	310		37	18
50-32-8	Benzo[a]pyrene	250		48	24
205-99-2	Benzo[b]fluoranthene	350		57	28
191-24-2	Benzo[g,h,i]perylene	180		93	20
207-08-9	Benzo[k]fluoranthene	150		37	17
218-01-9	Chrysene	280		42	21
53-70-3	Dibenz(a,h)anthracene	55	J	93	19
206-44-0	Fluoranthene	470		93	19
86-73-7	Fluorene	41	J	93	19
193-39-5	Indeno[1,2,3-cd]pyrene	170		93	33
90-12-0	1-Methylnaphthalene	36	J	190	20
91-57-6	2-Methylnaphthalene	56	J	190	33
91-20-3	Naphthalene	61	J	190	20
85-01-8	Phenanthrene	350		37	18
129-00-0	Pyrene	340		93	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	50		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06033.D
Lab Smp Id: 680-89896-A-9-A Client Smp ID: CV0670C-CS-SP
Inj Date : 06-MAY-2013 18:57
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-9-a
Misc Info : 680-89896-A-9-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 33
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	13.457	% 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)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.548	2.544	(1.000)	1408546	40.0000	
* 6 Acenaphthene-d10	164	3.579	3.575	(1.000)	741940	40.0000	
* 10 Phenanthrene-d10	188	4.530	4.521	(1.000)	1100223	40.0000	
$ 14 o-Terphenyl	230	4.824	4.820	(1.065)	19513	1.23919	383.3675
* 18 Chrysene-d12	240	6.555	6.535	(1.000)	1042218	40.0000	
* 23 Perylene-d12	264	7.645	7.630	(1.000)	1256924	40.0000	
2 Naphthalene	128	2.559	2.555	(1.004)	6584	0.19849	61.4074
3 2-Methylnaphthalene	141	2.965	2.961	(1.163)	3026	0.17950	55.5332
4 1-Methylnaphthalene	142	3.024	3.014	(1.187)	2351	0.11635	35.9963
5 Acenaphthylene	152	3.489	3.484	(0.975)	3764	0.10797	33.4012
9 Fluorene	166	3.905	3.901	(1.091)	3059	0.13407	41.4773
11 Phenanthrene	178	4.541	4.537	(1.002)	31096	1.14084	352.9410
12 Anthracene	178	4.578	4.569	(1.011)	10481	0.36098	111.6751
13 Carbazole	167	4.712	4.702	(1.040)	5279	0.20221	62.5590

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.406	5.397	(1.193)	47435	1.51274	467.9969
16 Pyrene	202	5.572	5.562	(0.850)	36678	1.09484	338.7096
17 Benzo(a)anthracene	228	6.544	6.524	(0.998)	29479	1.00642	311.3573
19 Chrysene	228	6.566	6.551	(1.002)	29987	0.90990	281.4949
20 Benzo(b)fluoranthene	252	7.362	7.347	(0.963)	37240	1.12092	346.7797(M)
21 Benzo(k)fluoranthene	252	7.372	7.368	(0.964)	20154	0.48899	151.2789(M)
22 Benzo(a)pyrene	252	7.586	7.576	(0.992)	27479	0.80538	249.1590
24 Indeno(1,2,3-cd)pyrene	276	8.398	8.388	(1.099)	15638	0.54710	169.2562(M)
25 Dibenzo(a,h)anthracene	278	8.414	8.414	(1.101)	5174	0.17659	54.6312
26 Benzo(g,h,i)perylene	276	8.612	8.602	(1.126)	18040	0.58691	181.5734

QC Flag Legend

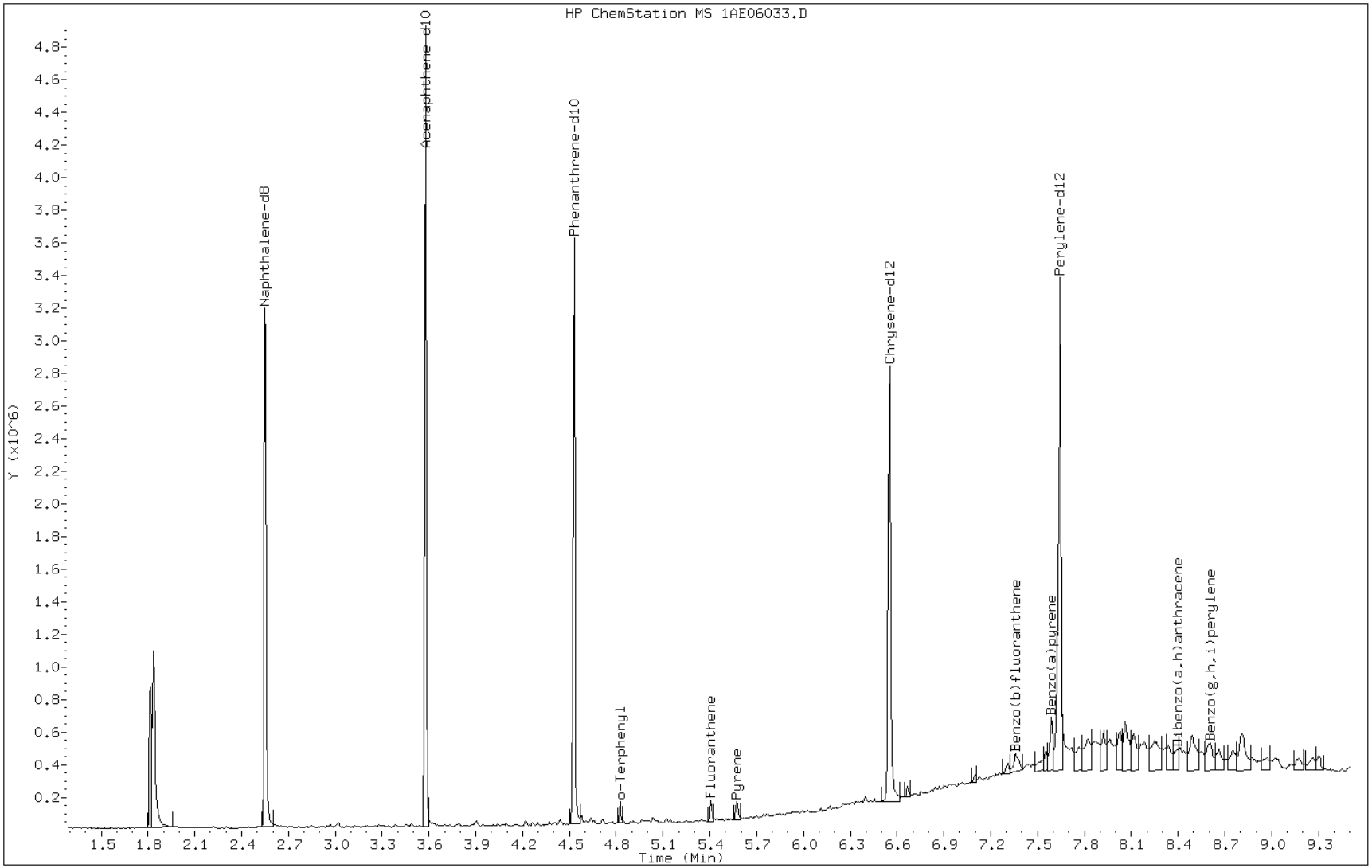
M - Compound response manually integrated.

Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC



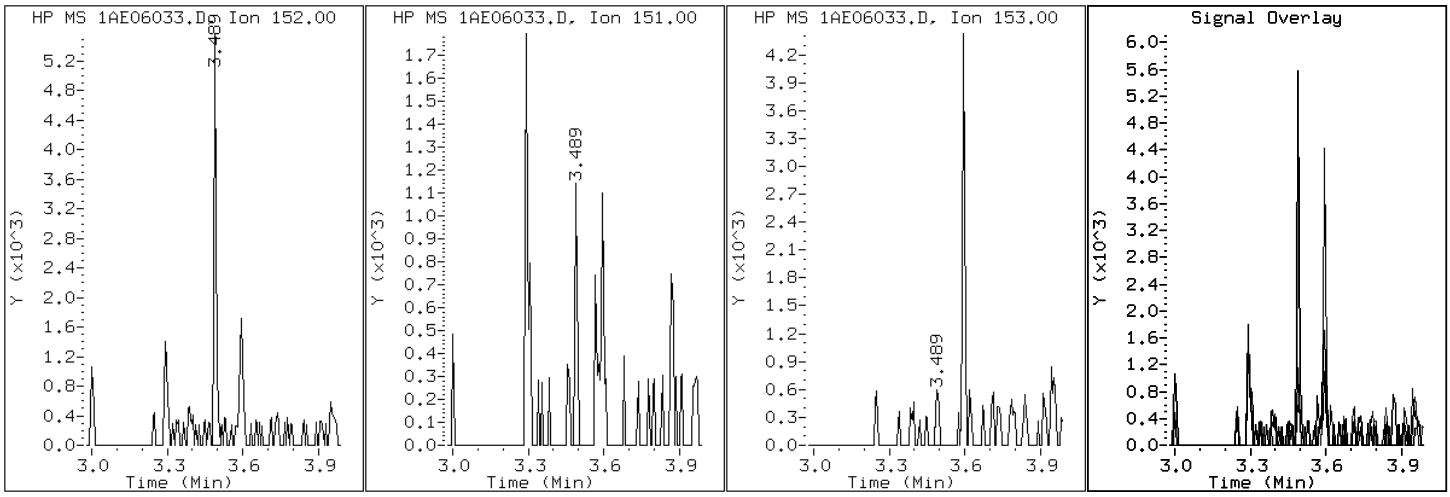
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

5 Acenaphthylene



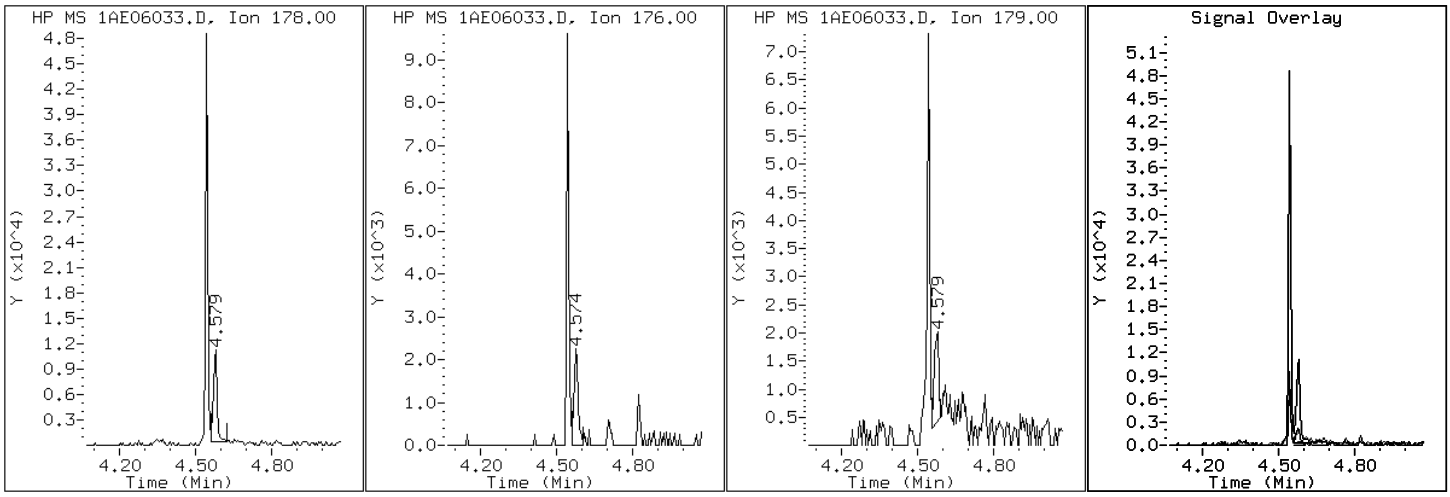
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

12 Anthracene



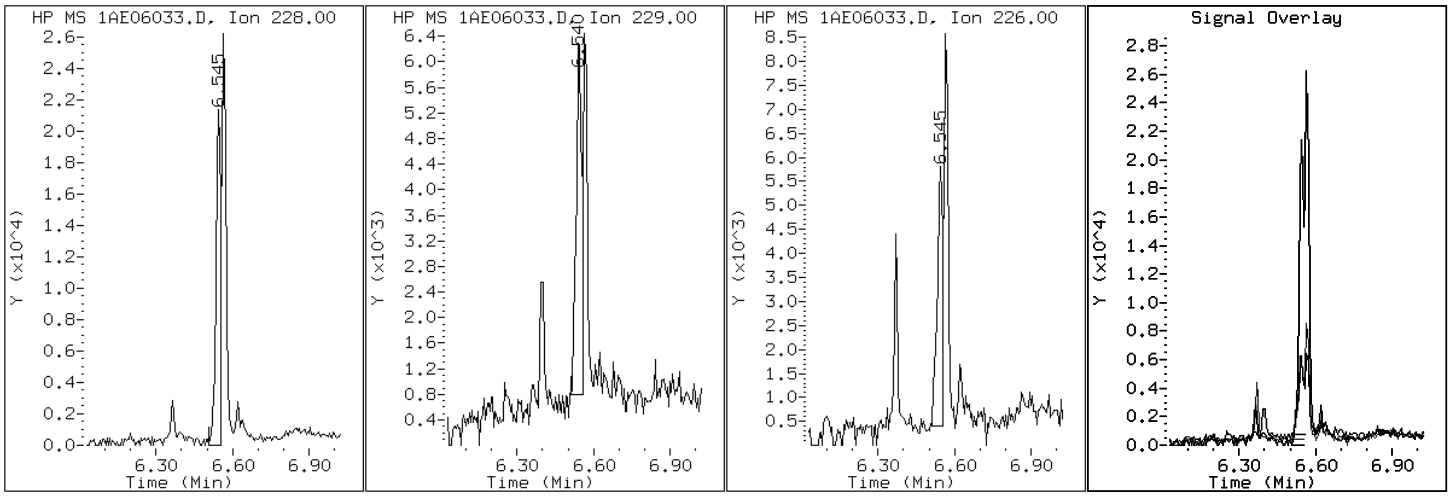
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

17 Benzo(a)anthracene



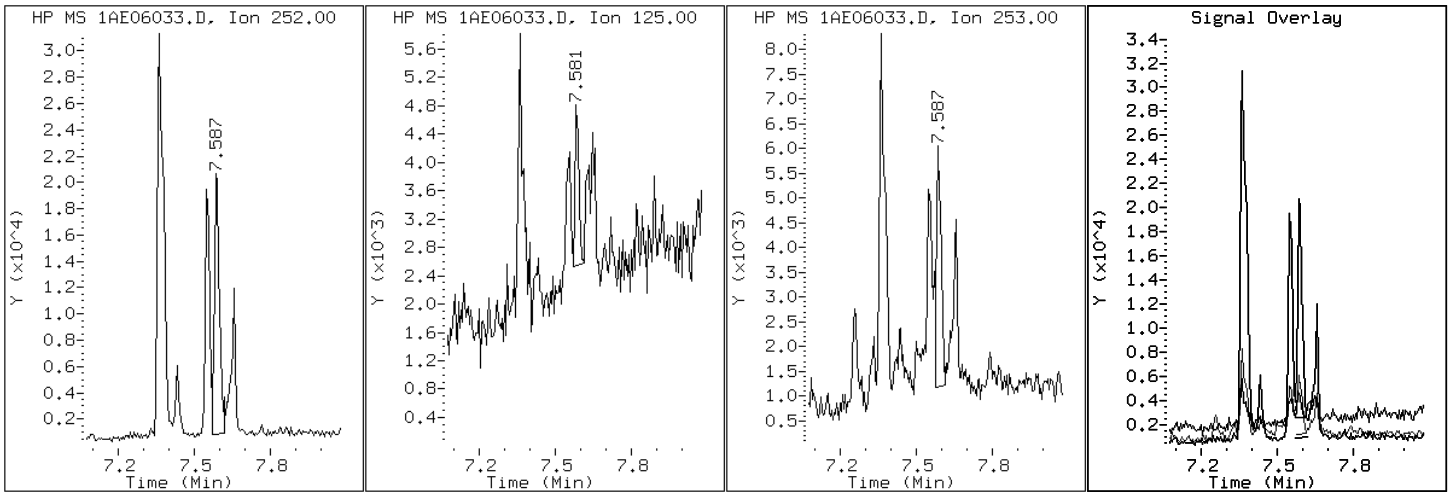
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

22 Benzo(a)pyrene



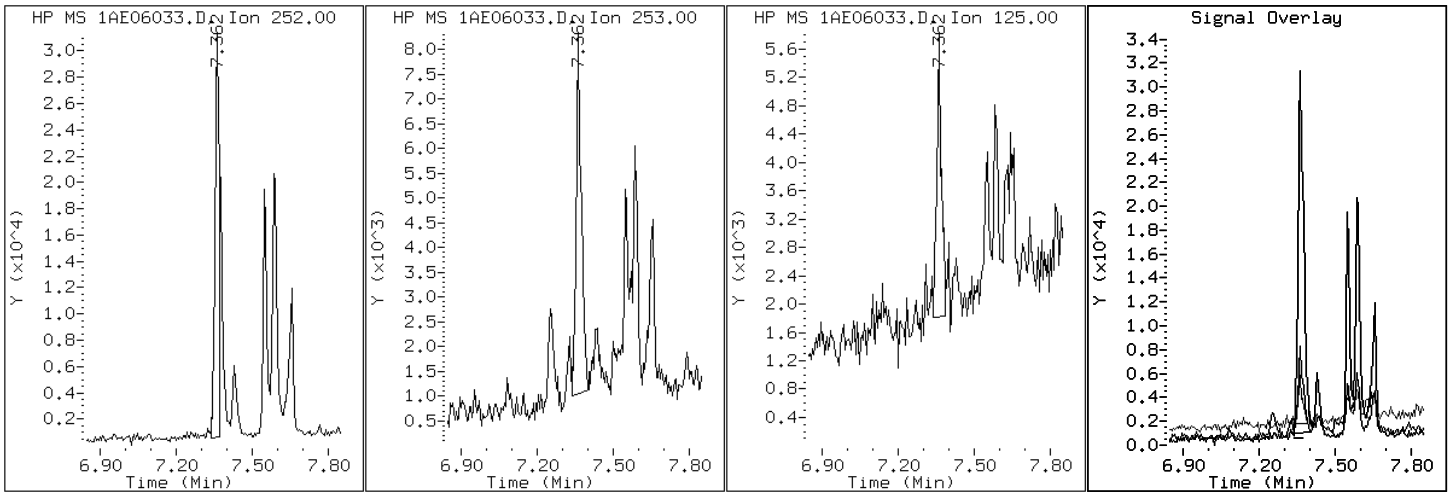
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

20 Benzo(b)fluoranthene



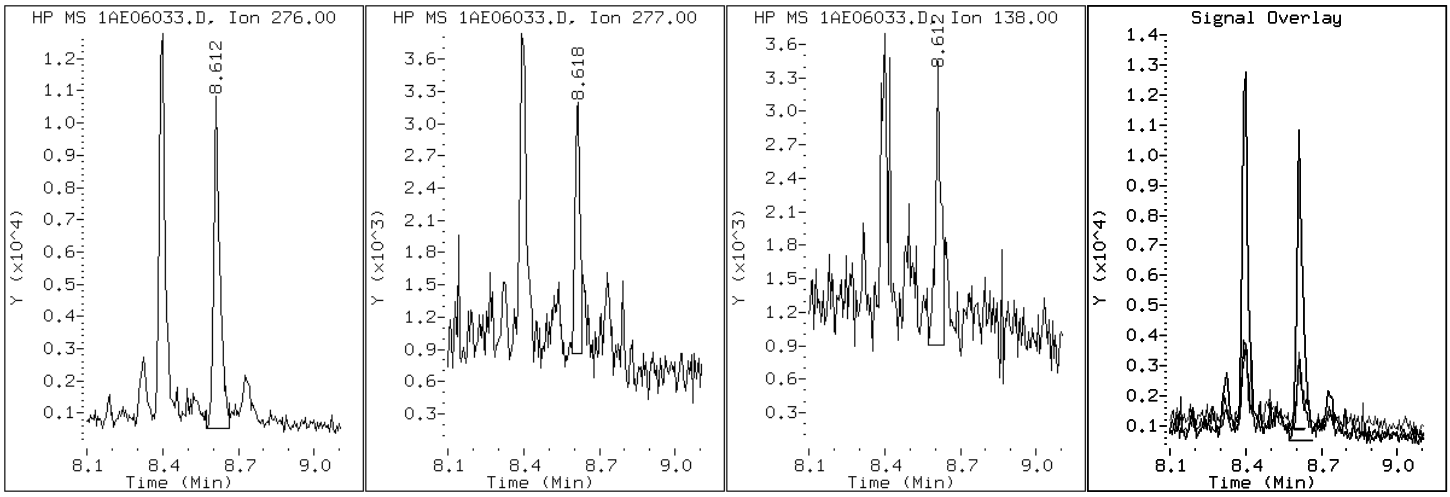
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

26 Benzo(g,h,i)perylene



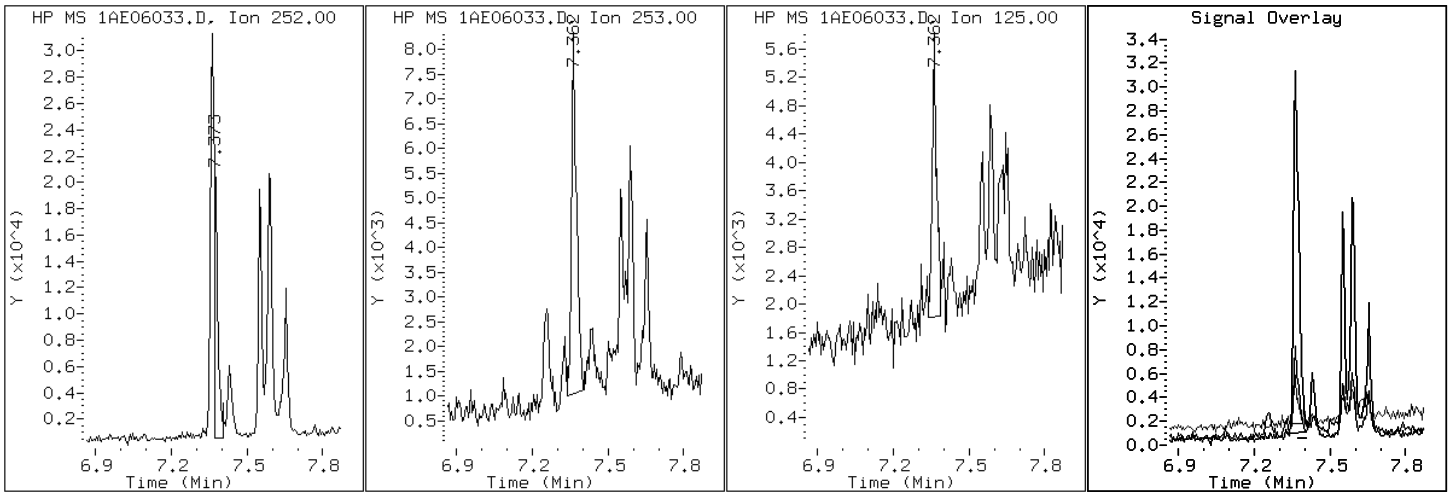
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

21 Benzo(k)fluoranthene



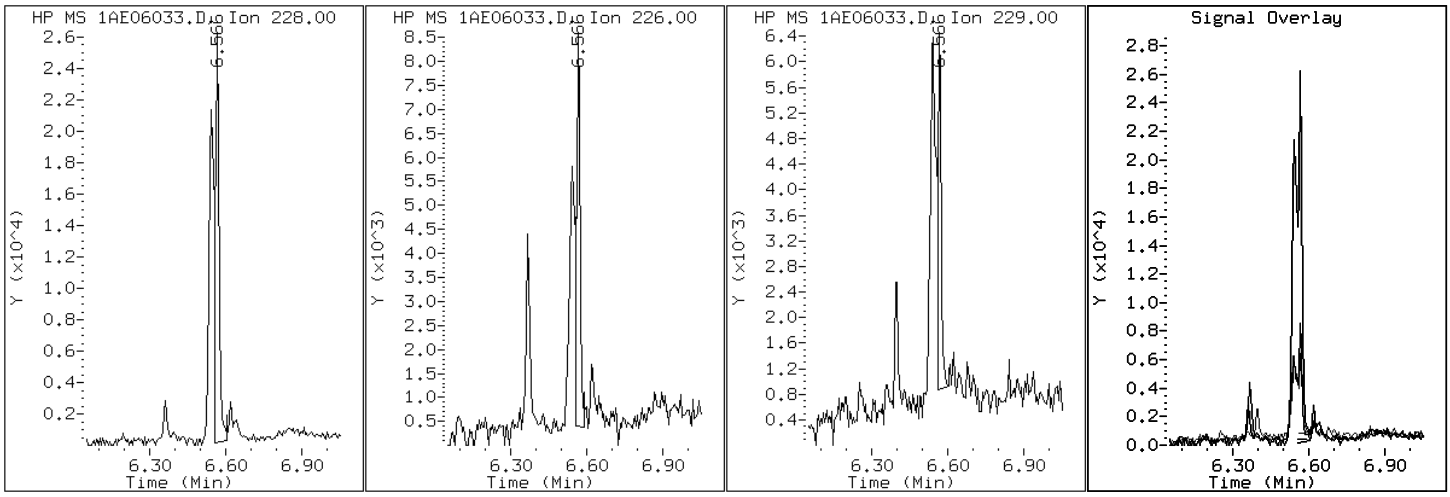
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

19 Chrysene



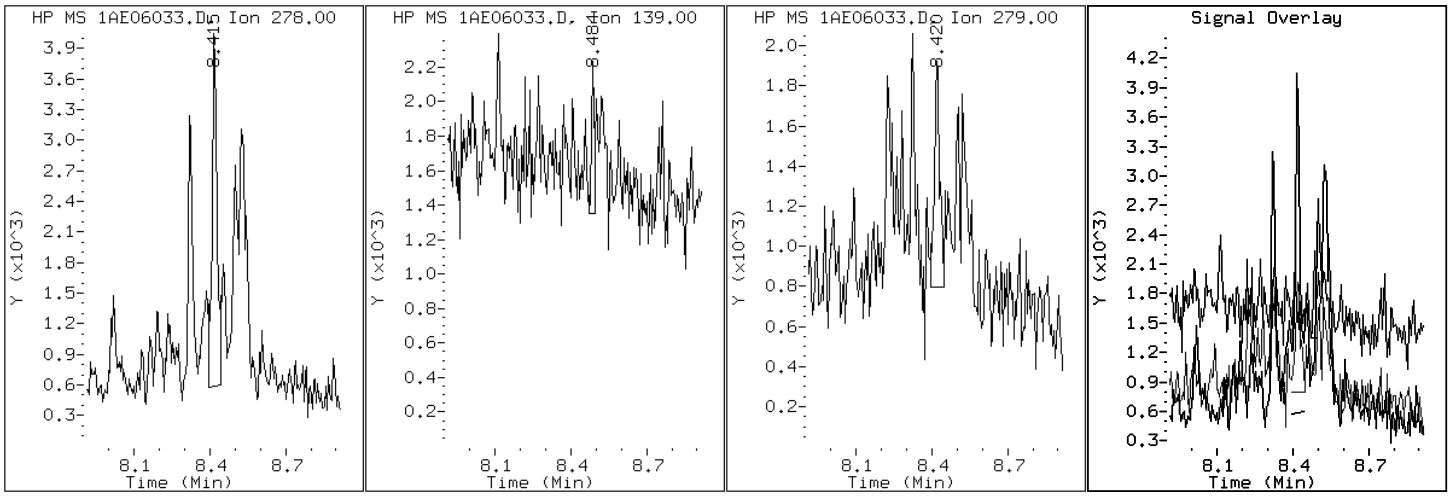
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

25 Dibenzo(a,h)anthracene



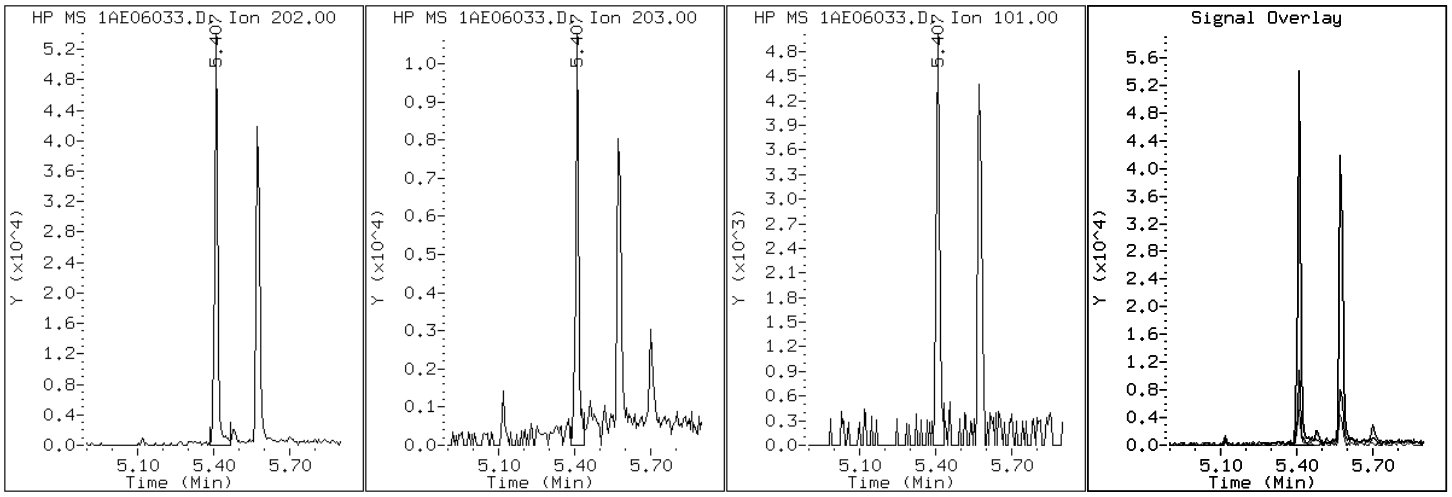
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

15 Fluoranthene



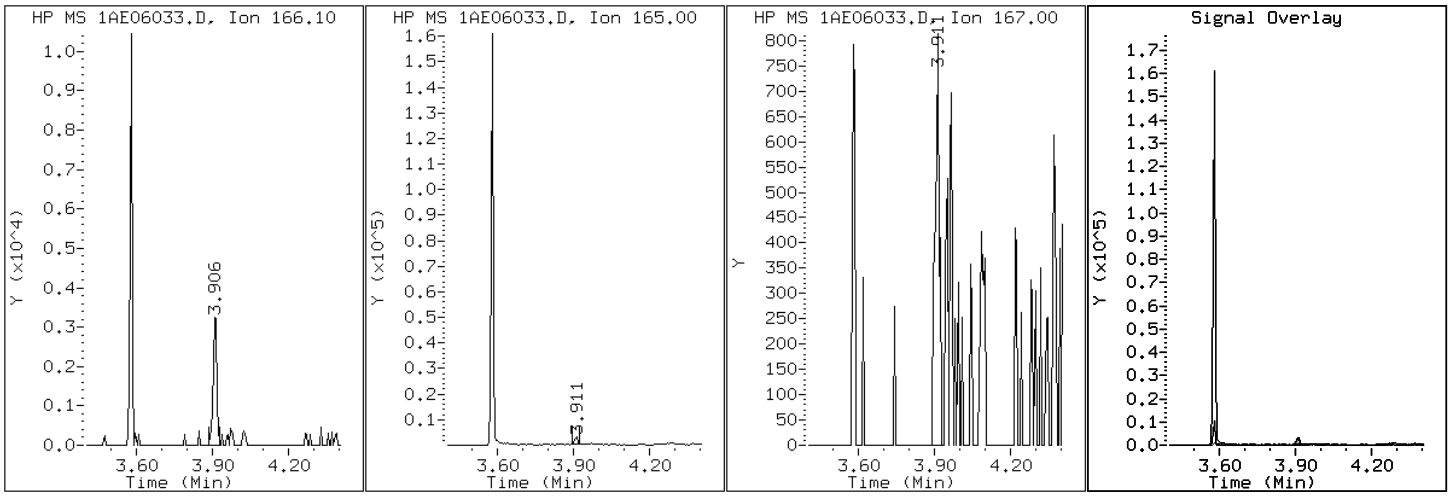
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

9 Fluorene



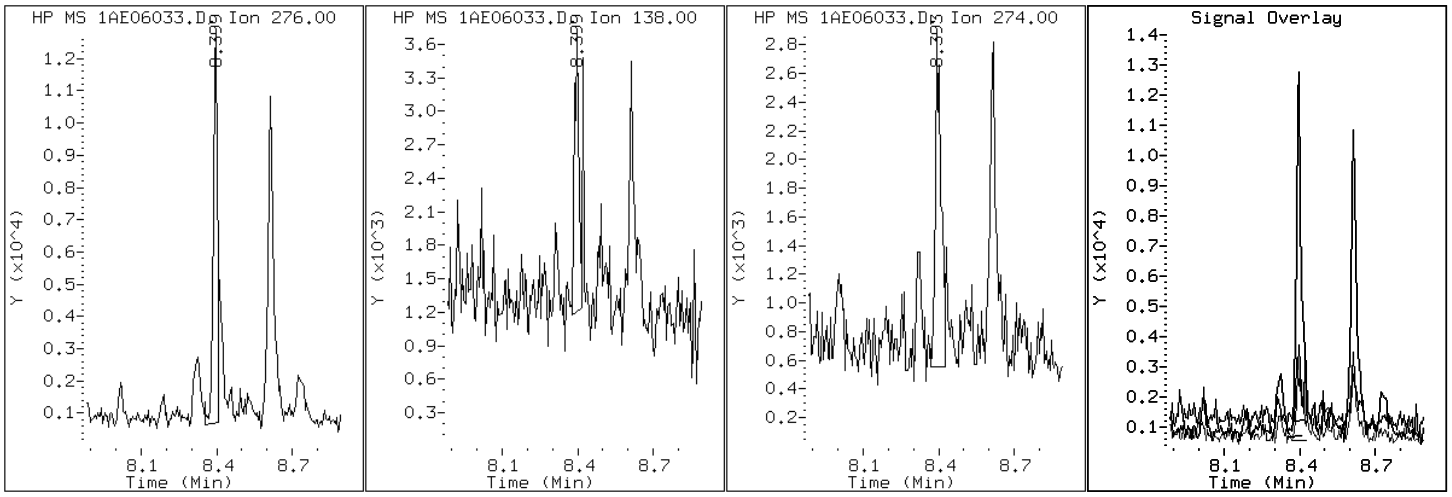
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

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



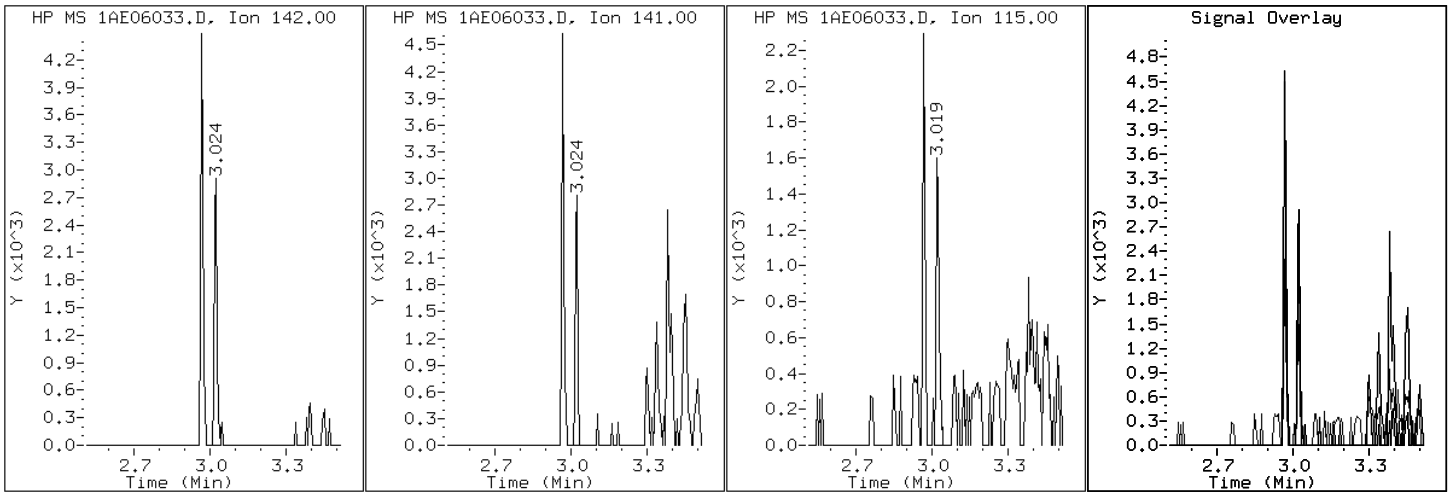
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

4 1-Methylnaphthalene



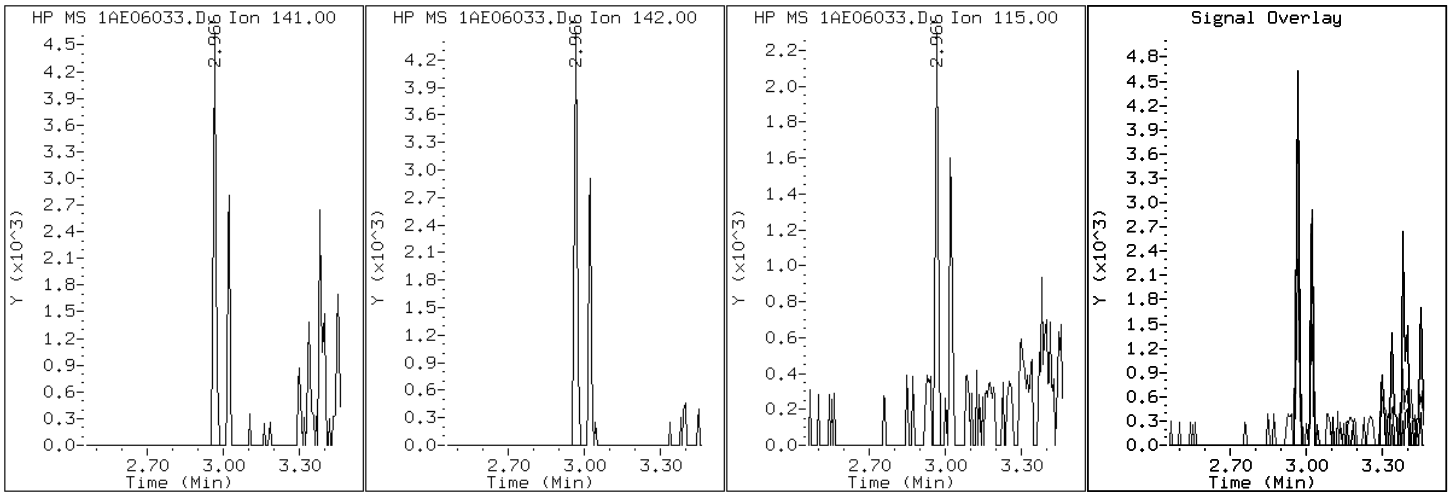
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

3 2-Methylnaphthalene



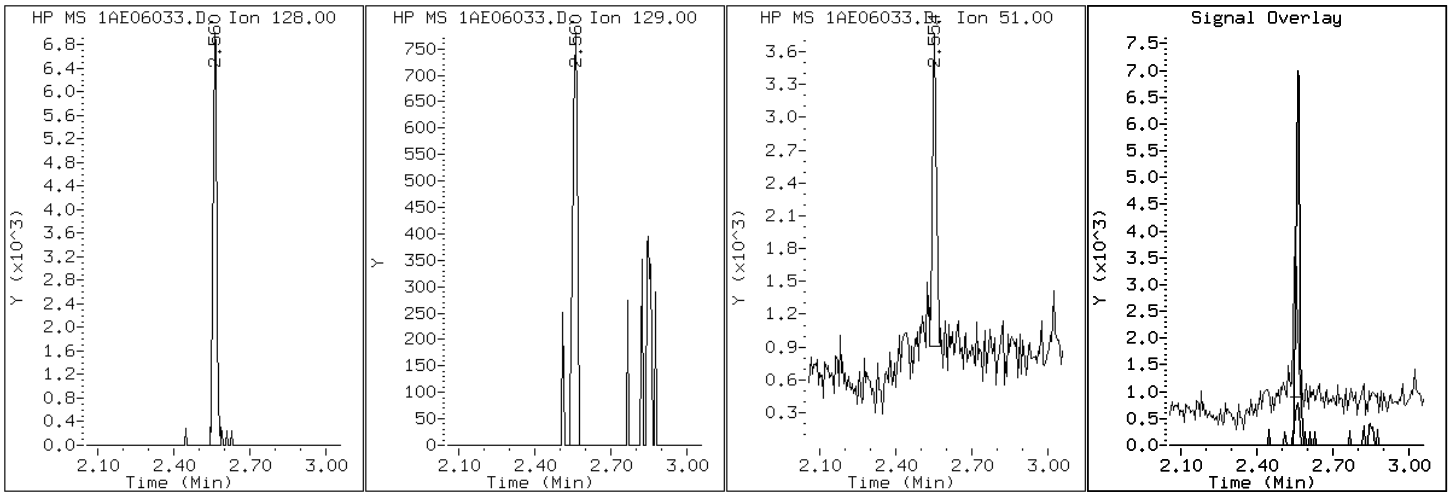
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

2 Naphthalene



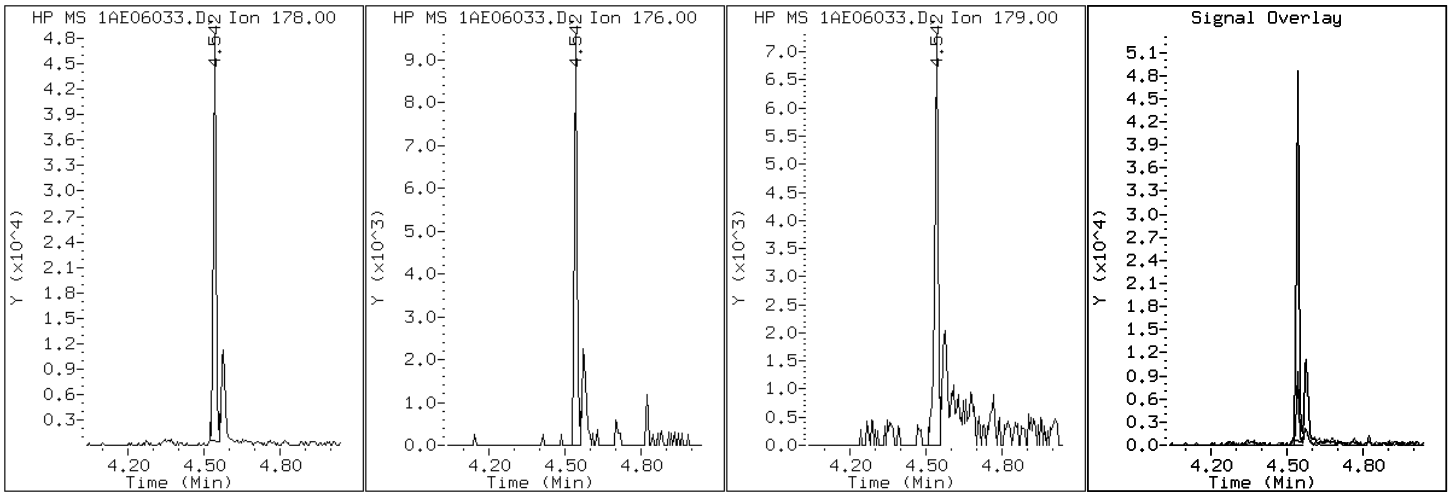
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

11 Phenanthrene



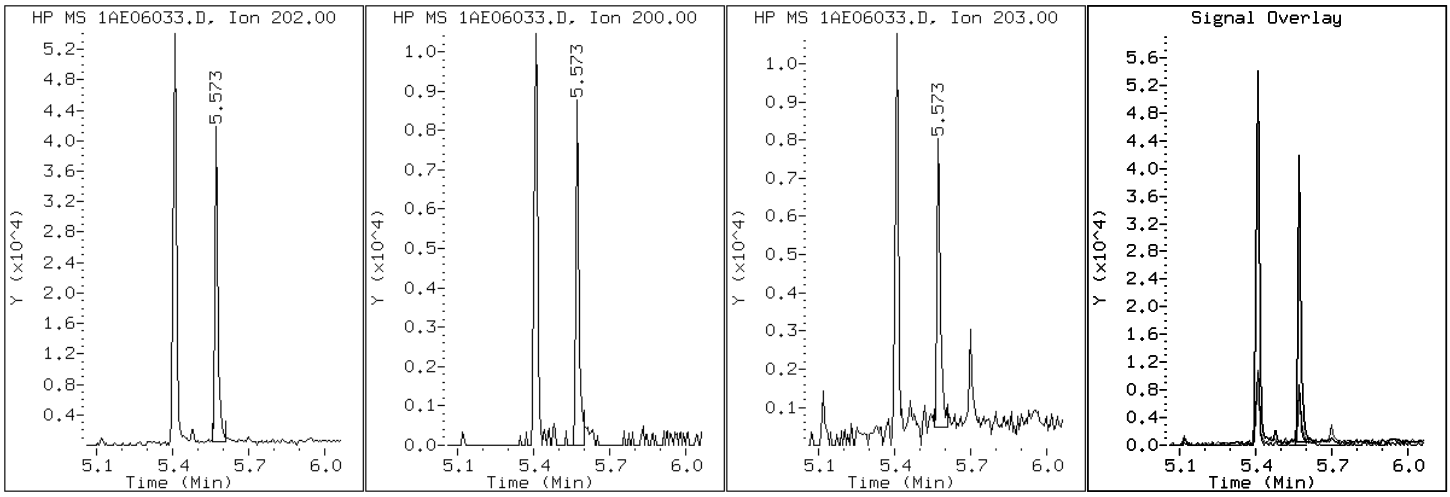
Data File: 1AE06033.D

Date: 06-MAY-2013 18:57

Client ID: CV0670C-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-9-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06033.D
Inj. Date and Time: 06-MAY-2013 18:57
Instrument ID: BSMA5973.i
Client ID: CV0670C-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

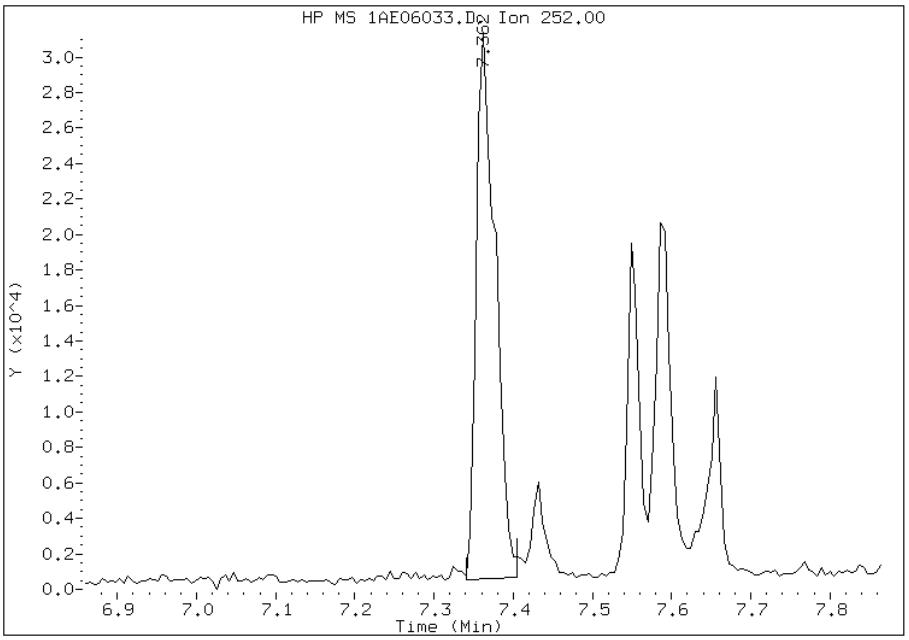
Processing Integration Results

RT: 7.36

Response: 50749

Amount: 2

Conc: 473



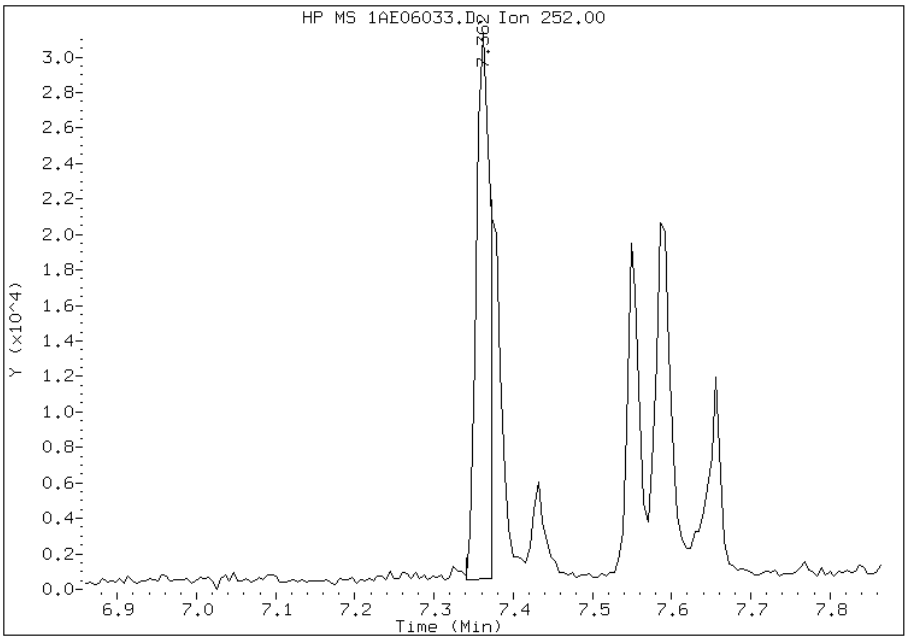
Manual Integration Results

RT: 7.36

Response: 37240

Amount: 1

Conc: 347



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06033.D
Inj. Date and Time: 06-MAY-2013 18:57
Instrument ID: BSMA5973.i
Client ID: CV0670C-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

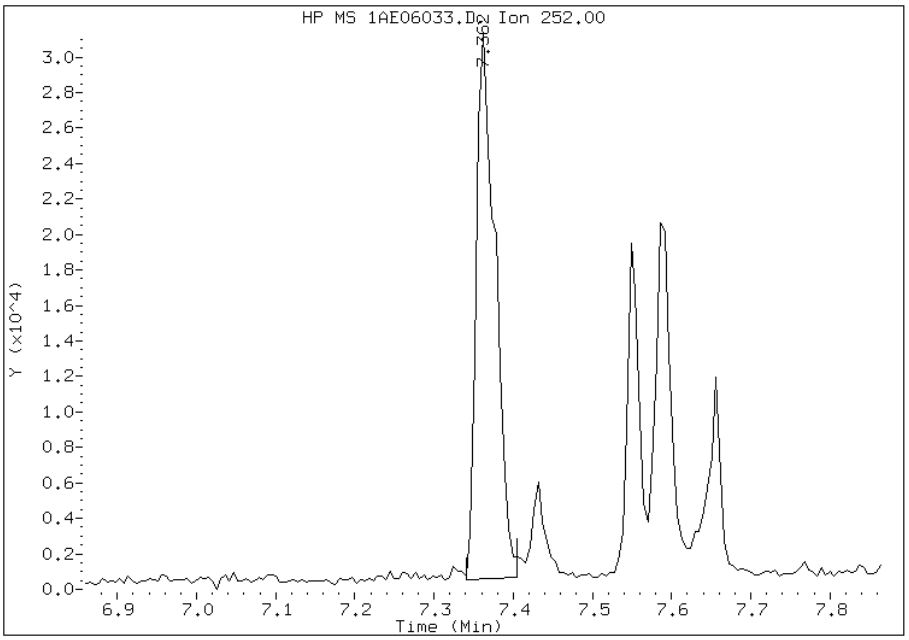
Processing Integration Results

RT: 7.36

Response: 50749

Amount: 1

Conc: 381



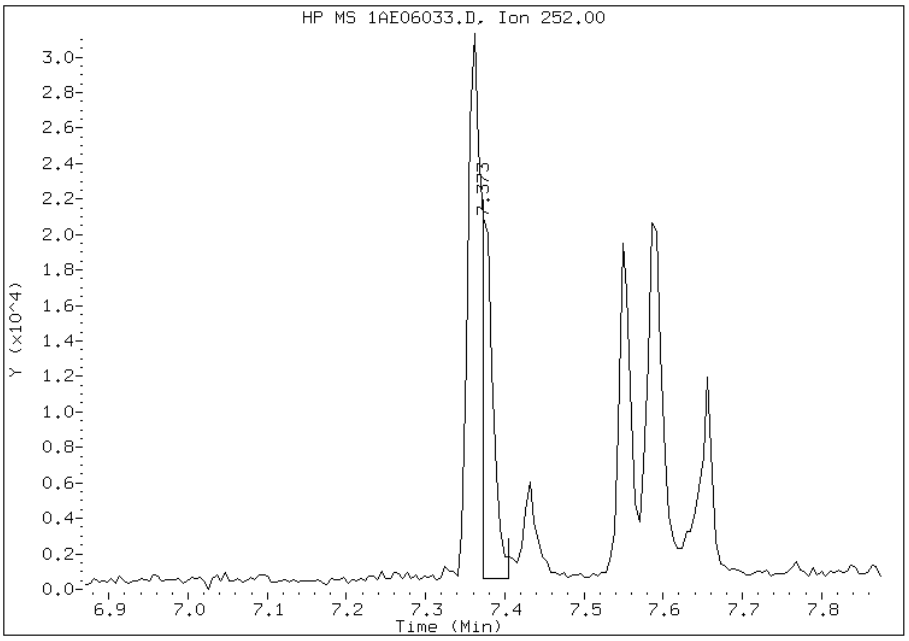
Manual Integration Results

RT: 7.37

Response: 20154

Amount: 0

Conc: 151



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06033.D
Inj. Date and Time: 06-MAY-2013 18:57
Instrument ID: BSMA5973.i
Client ID: CV0670C-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

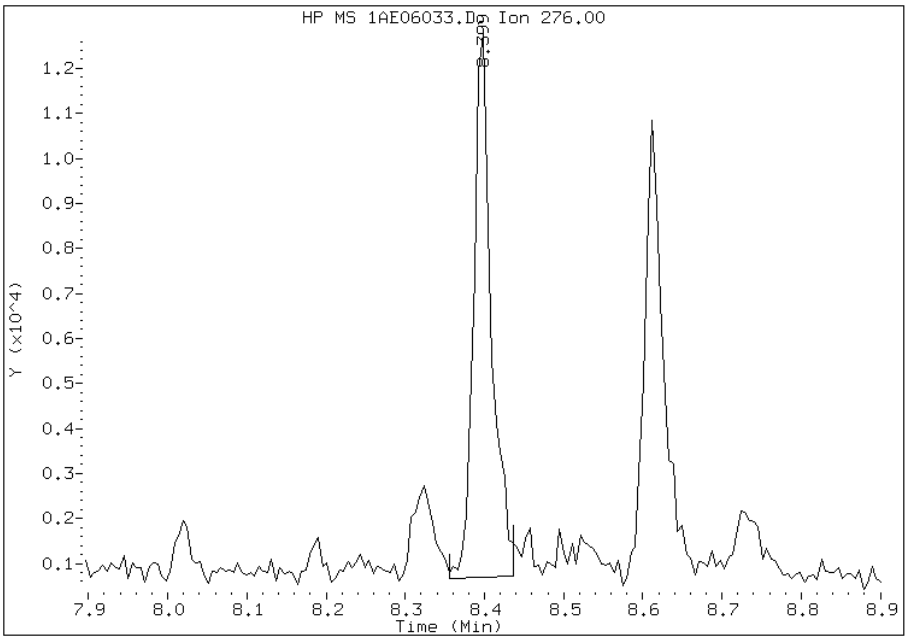
Processing Integration Results

RT: 8.40

Response: 18811

Amount: 1

Conc: 204



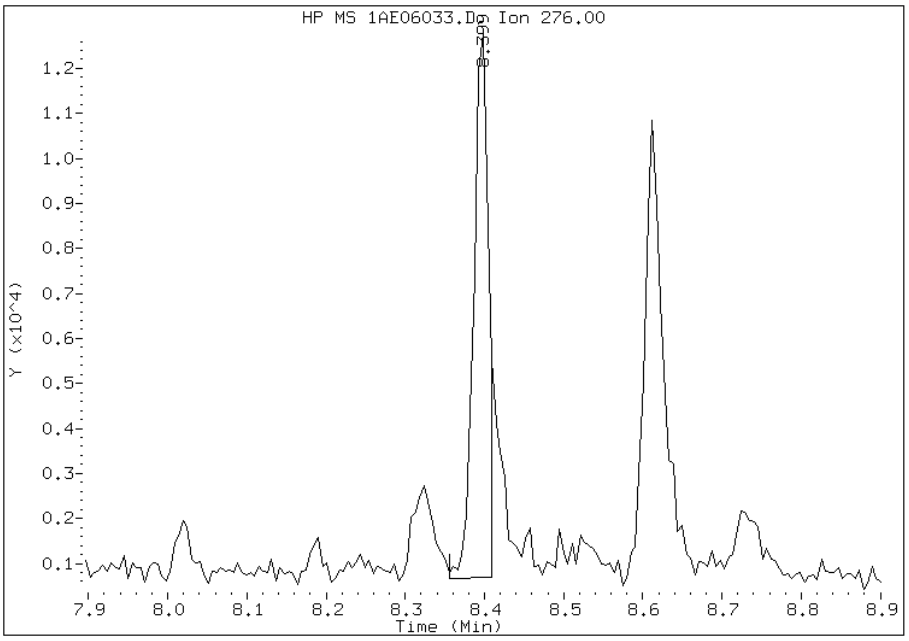
Manual Integration Results

RT: 8.40

Response: 15638

Amount: 1

Conc: 169



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0670D-CS-SP | Lab Sample ID: 680-89896-10

Matrix: Solid | Lab File ID: 1AE06034.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 09:48

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 15.01(g) | Date Analyzed: 05/06/2013 19:12

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

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

% Moisture: 15.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	18	J	47	5.9
120-12-7	Anthracene	42		9.9	5.0
56-55-3	Benzo[a]anthracene	160		9.4	4.6
50-32-8	Benzo[a]pyrene	150		12	6.1
205-99-2	Benzo[b]fluoranthene	250		14	7.2
191-24-2	Benzo[g,h,i]perylene	96		24	5.2
207-08-9	Benzo[k]fluoranthene	79		9.4	4.3
218-01-9	Chrysene	180		11	5.3
53-70-3	Dibenz(a,h)anthracene	30		24	4.8
206-44-0	Fluoranthene	300		24	4.7
86-73-7	Fluorene	15	J	24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	95		24	8.4
90-12-0	1-Methylnaphthalene	18	J	47	5.2
91-57-6	2-Methylnaphthalene	24	J	47	8.4
91-20-3	Naphthalene	29	J	47	5.2
85-01-8	Phenanthrene	200		9.4	4.6
129-00-0	Pyrene	230		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06034.D
Lab Smp Id: 680-89896-A-10-A Client Smp ID: CV0670D-CS-SP
Inj Date : 06-MAY-2013 19:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-10-a
Misc Info : 680-89896-A-10-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	15.010	Weight Extracted
M	15.368	% 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)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.549	2.544	(1.000)	1406782	40.0000	
* 6 Acenaphthene-d10	164	3.580	3.575	(1.000)	719557	40.0000	
* 10 Phenanthrene-d10	188	4.531	4.521	(1.000)	1058772	40.0000	
$ 14 o-Terphenyl	230	4.825	4.820	(1.065)	69506	4.58684	361.0759
* 18 Chrysene-d12	240	6.555	6.535	(1.000)	1005505	40.0000	
* 23 Perylene-d12	264	7.651	7.630	(1.000)	1196143	40.0000	
2 Naphthalene	128	2.560	2.555	(1.004)	12113	0.36564	28.7828
3 2-Methylnaphthalene	141	2.966	2.961	(1.163)	5219	0.30998	24.4018
4 1-Methylnaphthalene	142	3.019	3.014	(1.184)	4704	0.23310	18.3495
5 Acenaphthylene	152	3.489	3.484	(0.975)	7810	0.23099	18.1833
9 Fluorene	166	3.911	3.901	(1.093)	4349	0.19654	15.4714
11 Phenanthrene	178	4.541	4.537	(1.002)	66474	2.53425	199.4961
12 Anthracene	178	4.574	4.569	(1.009)	14889	0.53287	41.9473
13 Carbazole	167	4.712	4.702	(1.040)	10365	0.41258	32.4782

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.407	5.397	(1.193)	115152	3.81607	300.4004
16 Pyrene	202	5.573	5.562	(0.850)	96077	2.97261	234.0035
17 Benzo(a)anthracene	228	6.545	6.524	(0.998)	58488	2.06971	162.9274
19 Chrysene	228	6.571	6.551	(1.002)	72184	2.27026	178.7144
20 Benzo(b)fluoranthene	252	7.362	7.347	(0.962)	102265	3.23459	254.6265(M)
21 Benzo(k)fluoranthene	252	7.378	7.368	(0.964)	39520	1.00759	79.3170(QM)
22 Benzo(a)pyrene	252	7.592	7.576	(0.992)	63328	1.95038	153.5338
24 Indeno(1,2,3-cd)pyrene	276	8.404	8.388	(1.098)	32802	1.20590	94.9284(M)
25 Dibenzo(a,h)anthracene	278	8.425	8.414	(1.101)	10765	0.38608	30.3921
26 Benzo(g,h,i)perylene	276	8.623	8.602	(1.127)	35688	1.22007	96.0440

QC Flag Legend

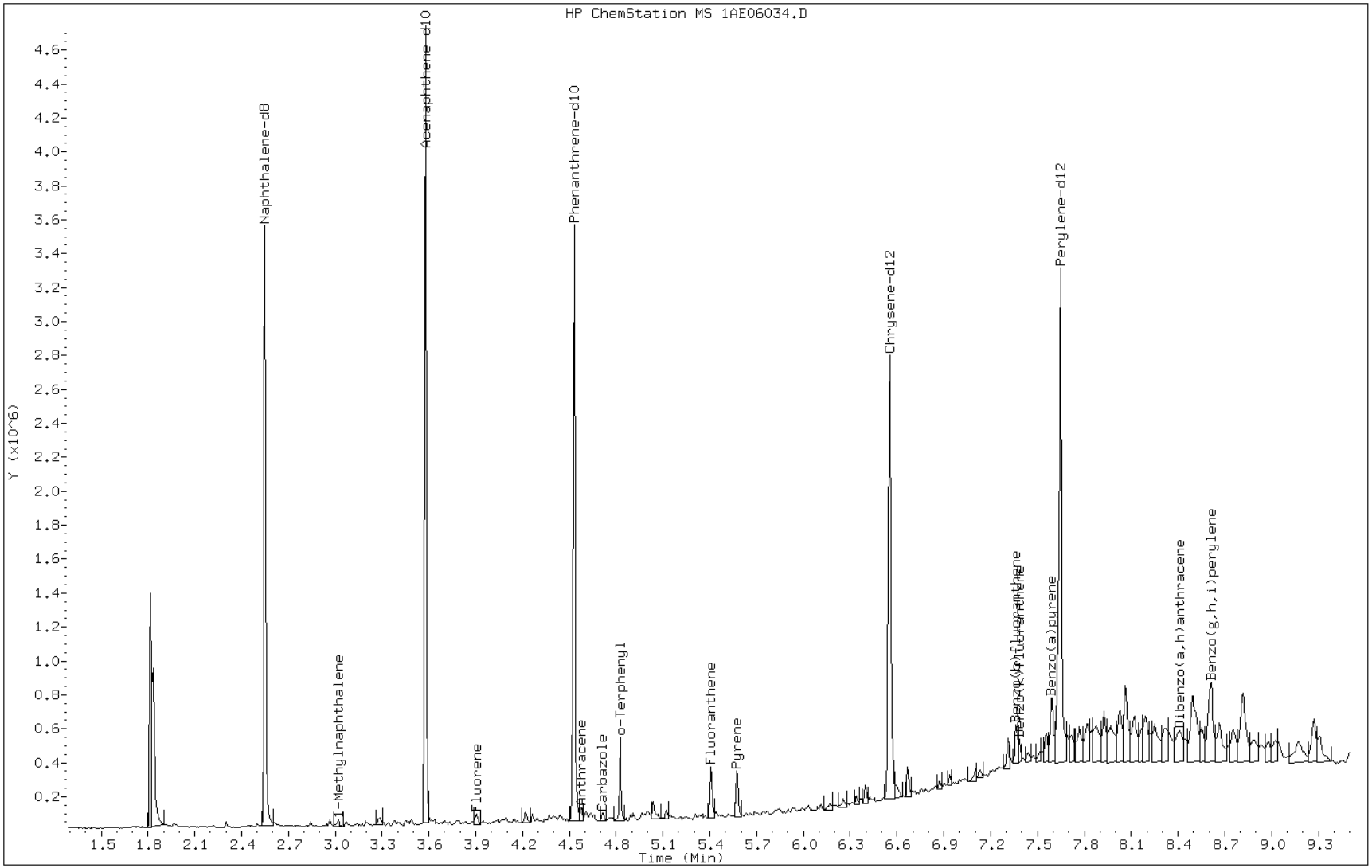
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC



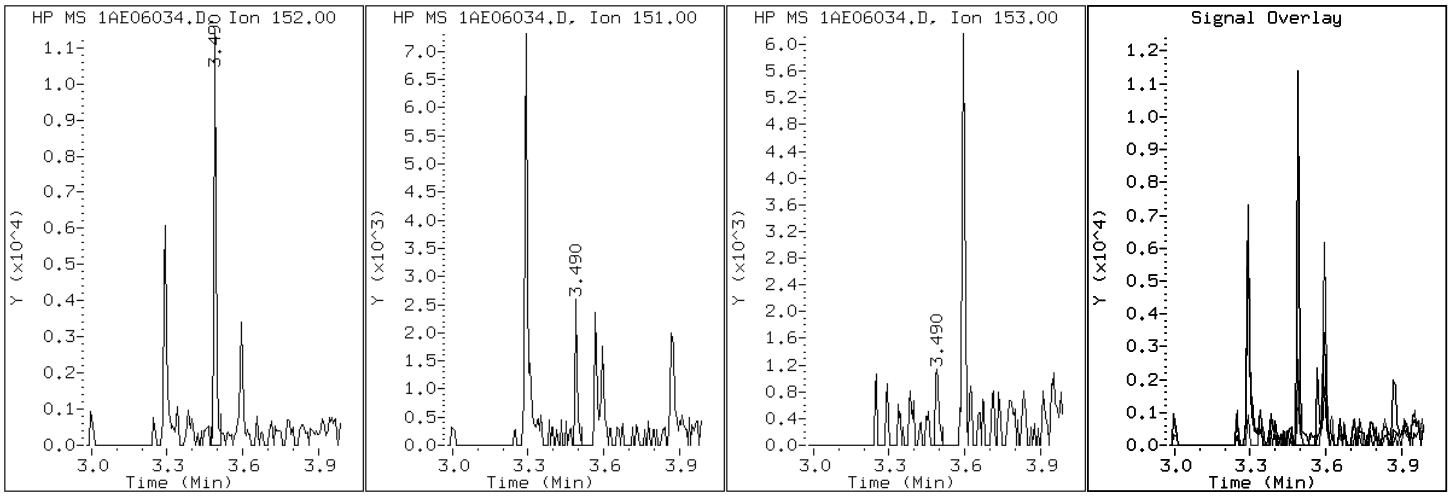
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

5 Acenaphthylene



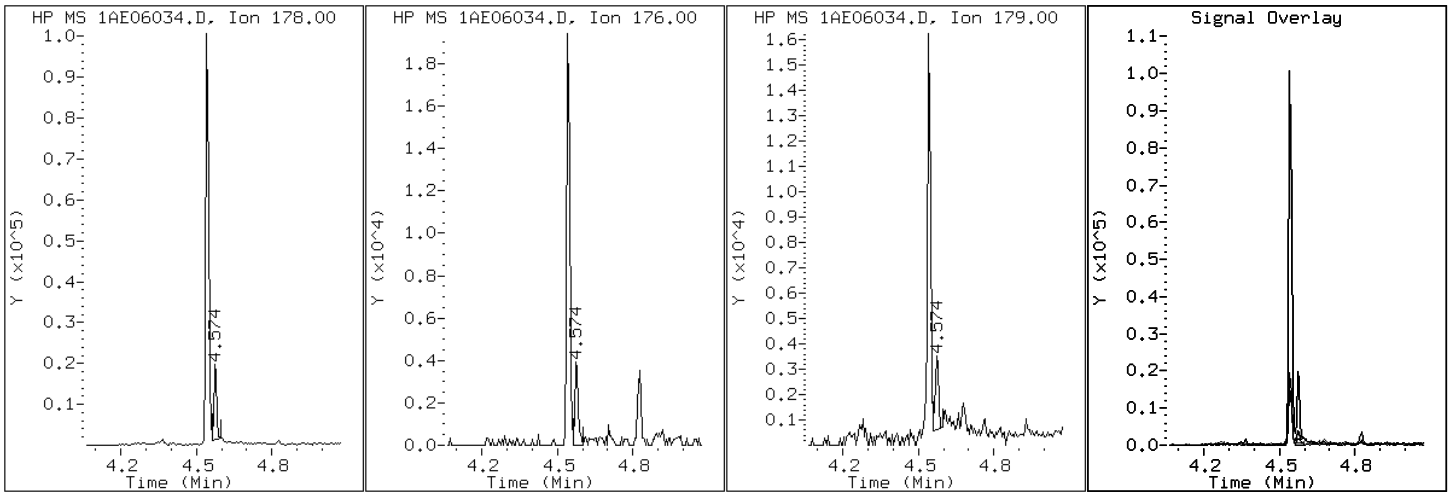
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

12 Anthracene



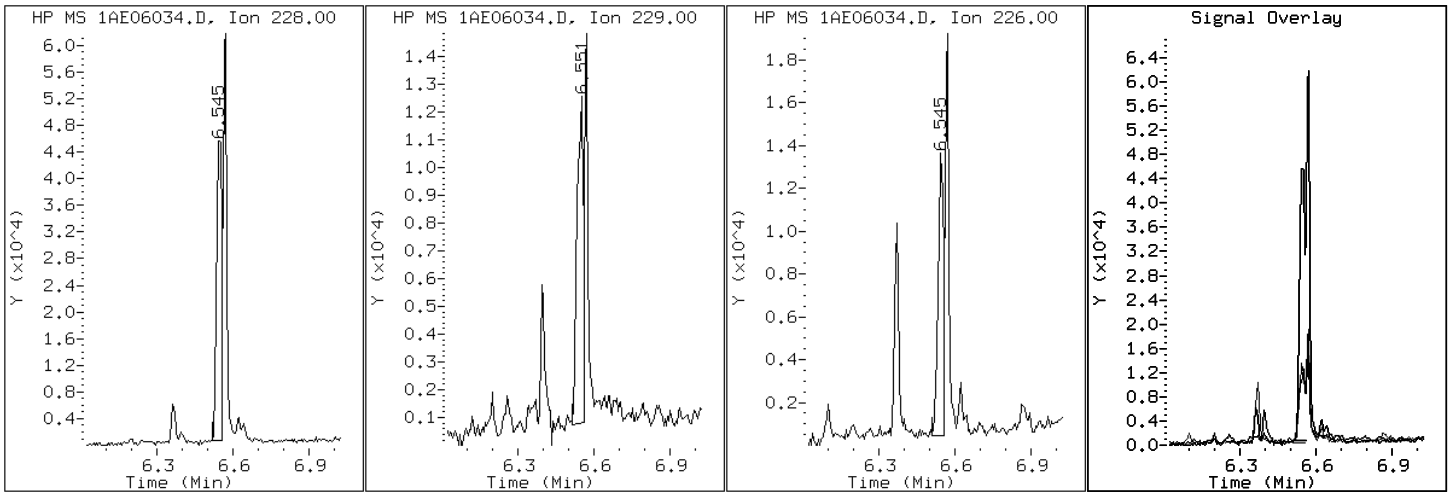
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

17 Benzo(a)anthracene



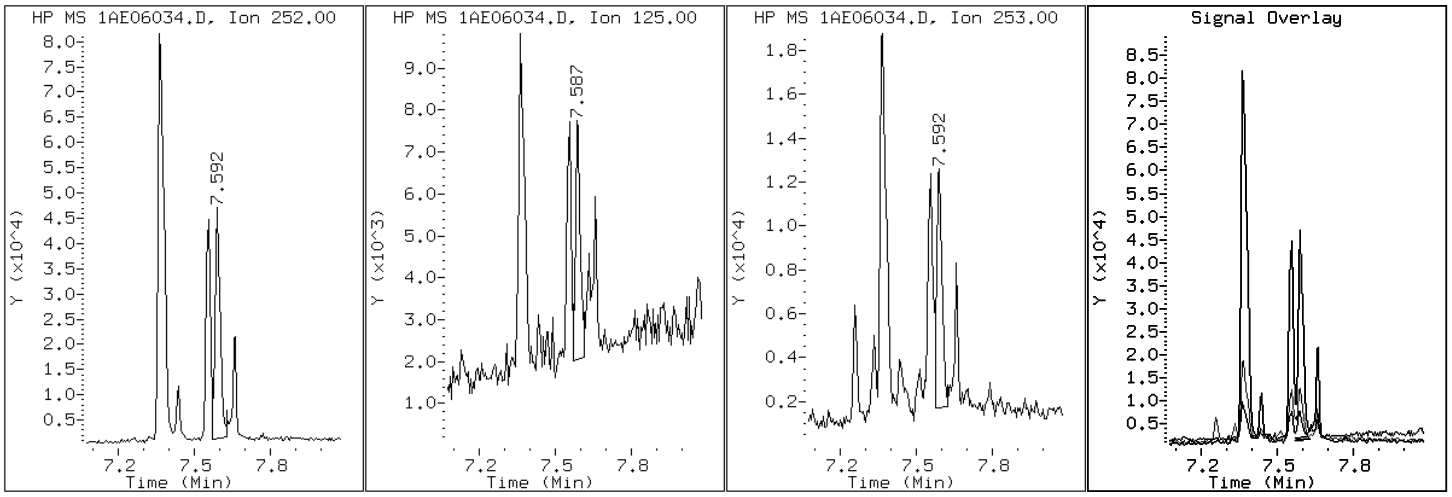
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

22 Benzo(a)pyrene



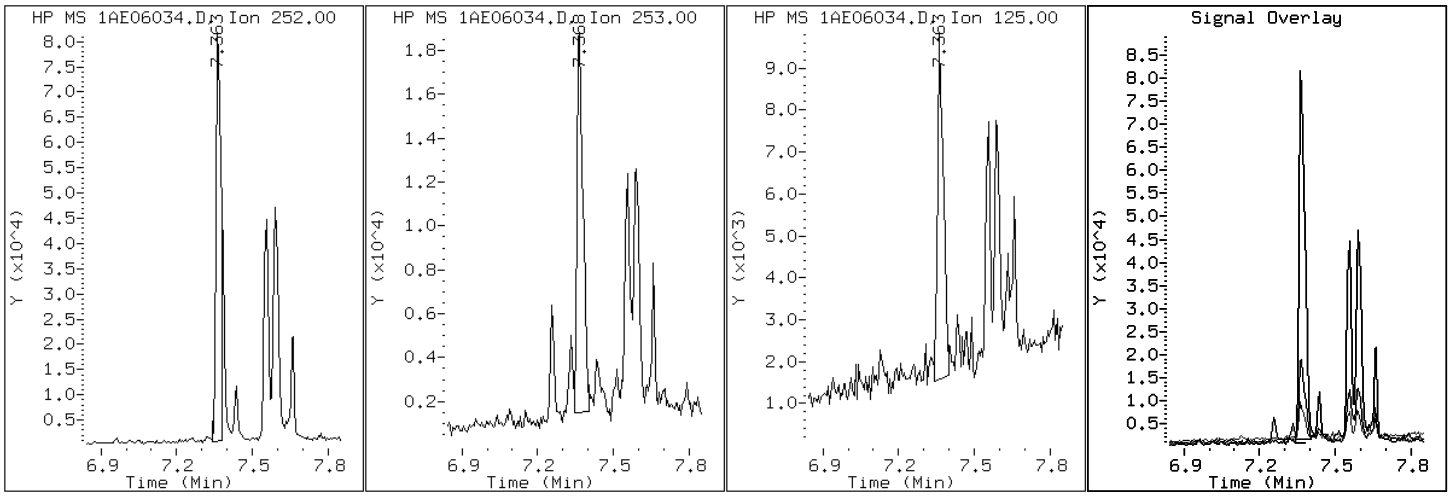
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

20 Benzo(b)fluoranthene



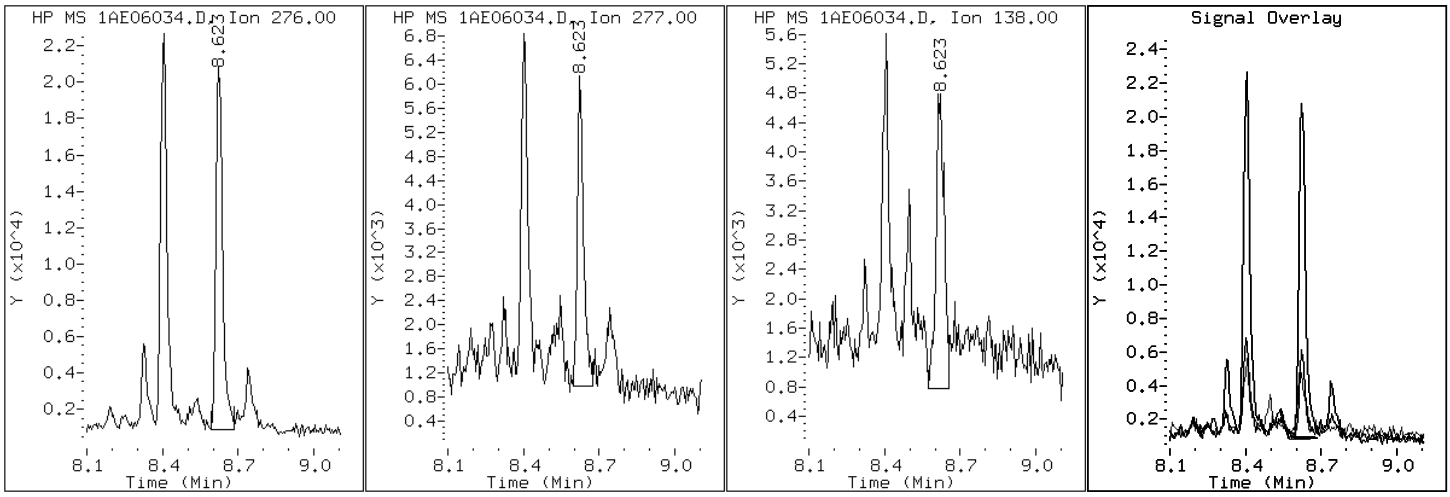
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

26 Benzo(g,h,i)perylene



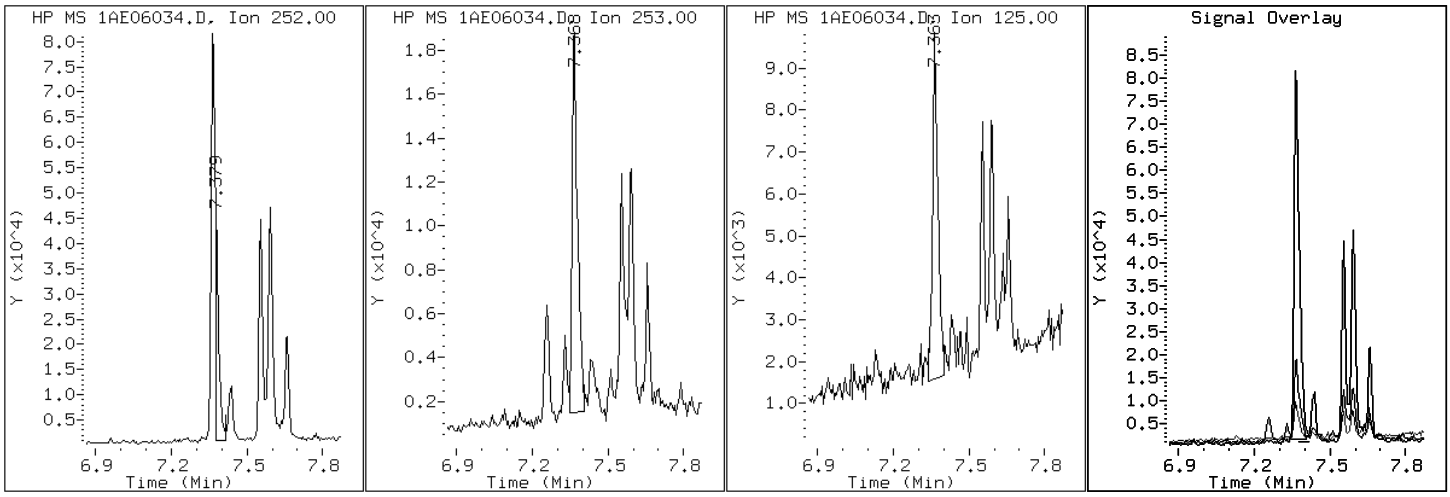
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

21 Benzo(k)fluoranthene



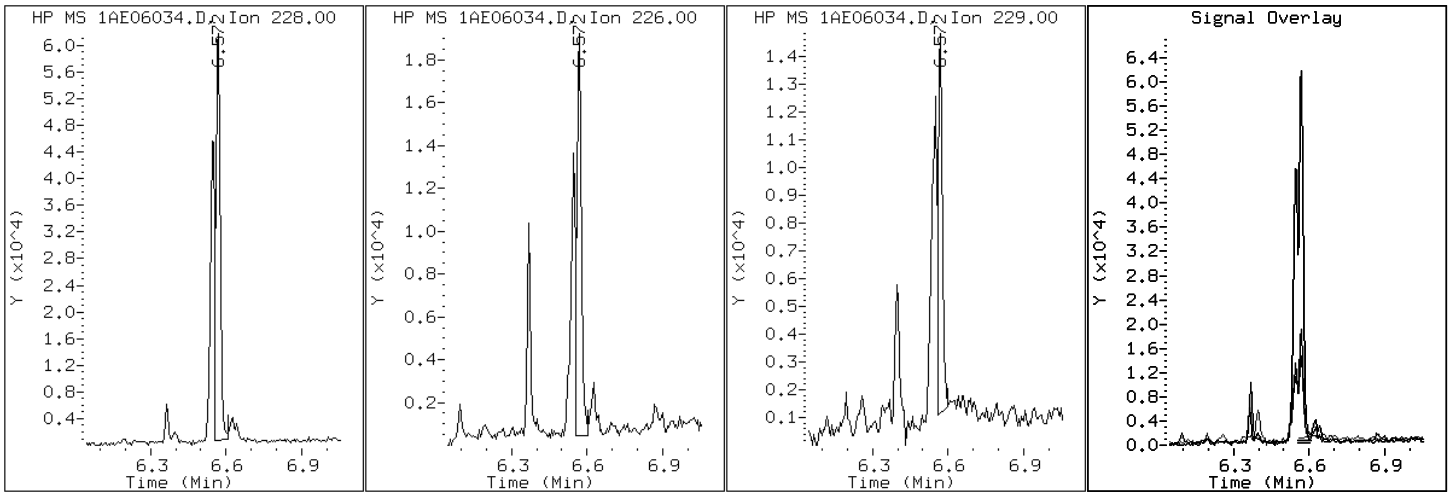
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

19 Chrysene



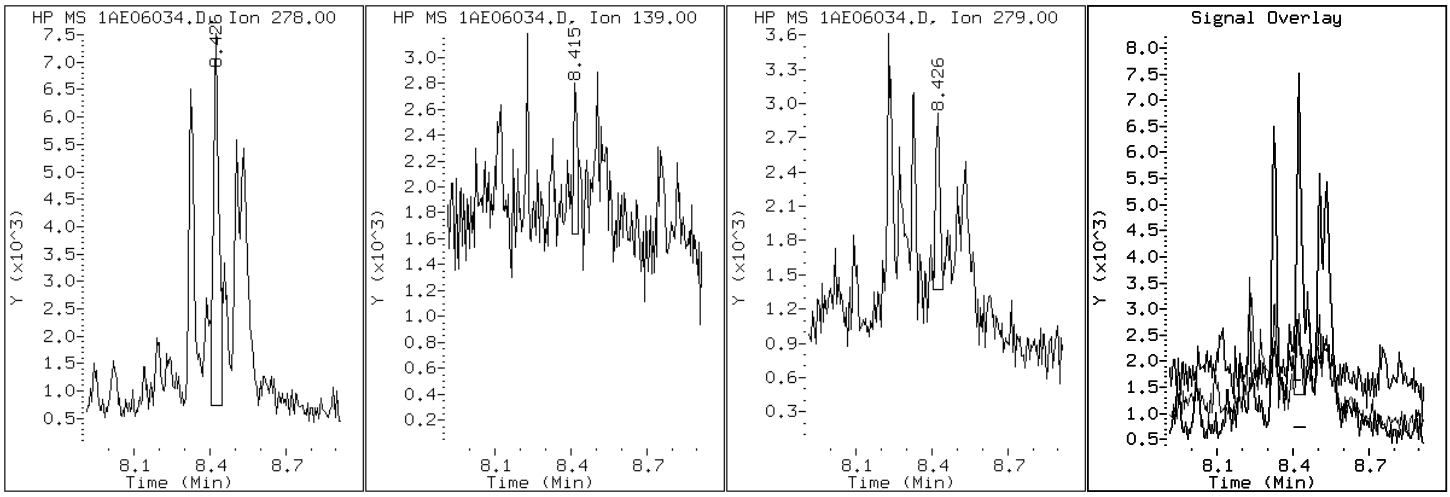
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

25 Dibenzo(a,h)anthracene



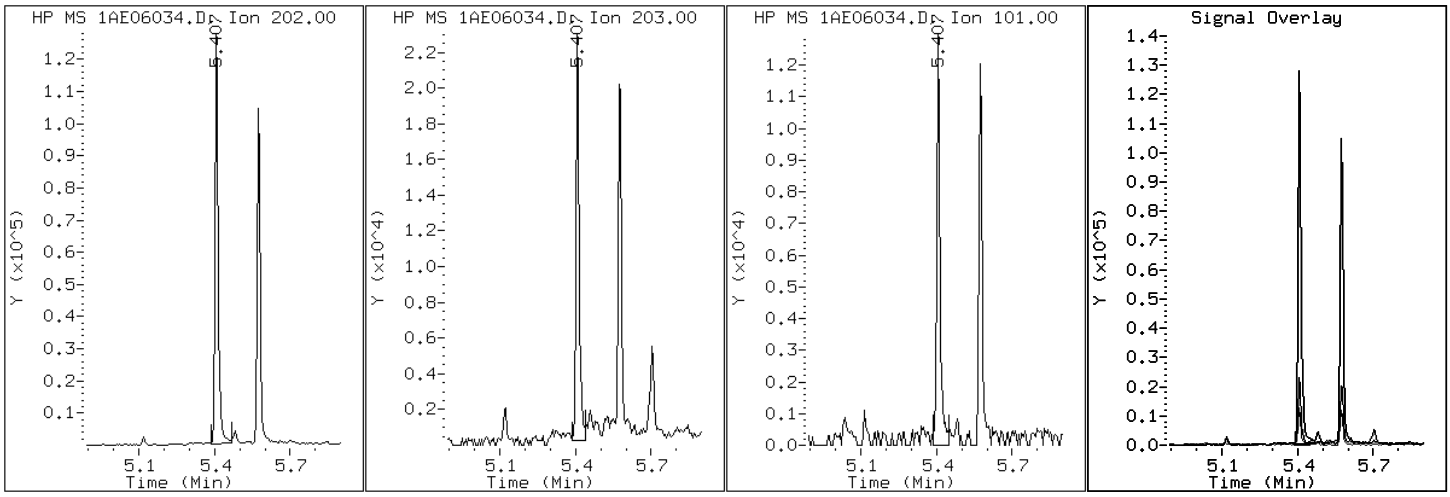
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

15 Fluoranthene



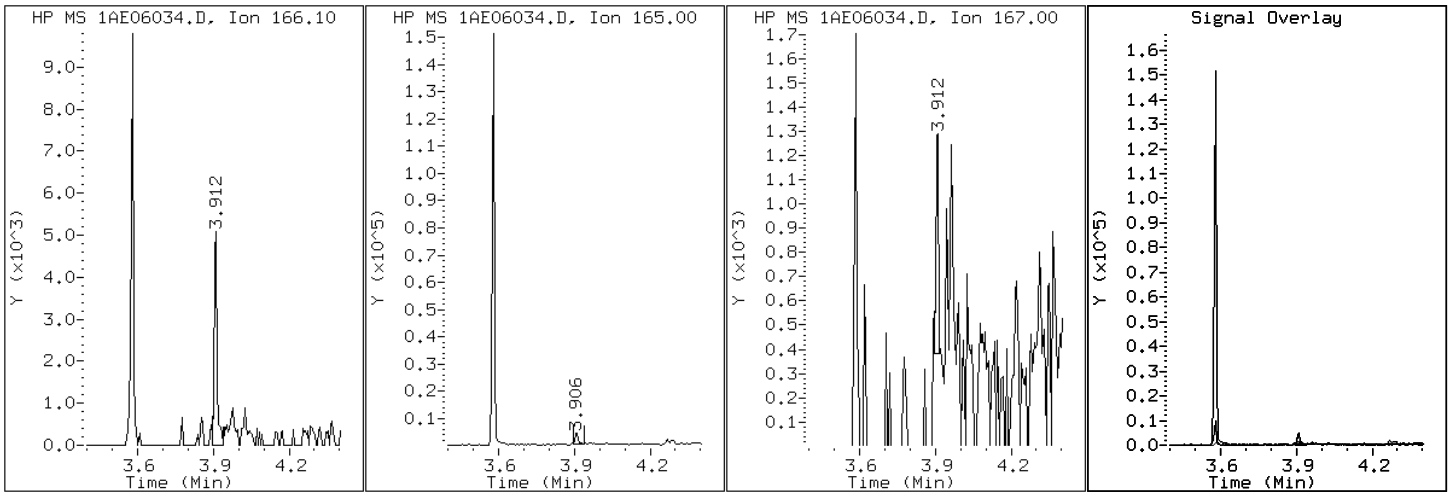
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

9 Fluorene



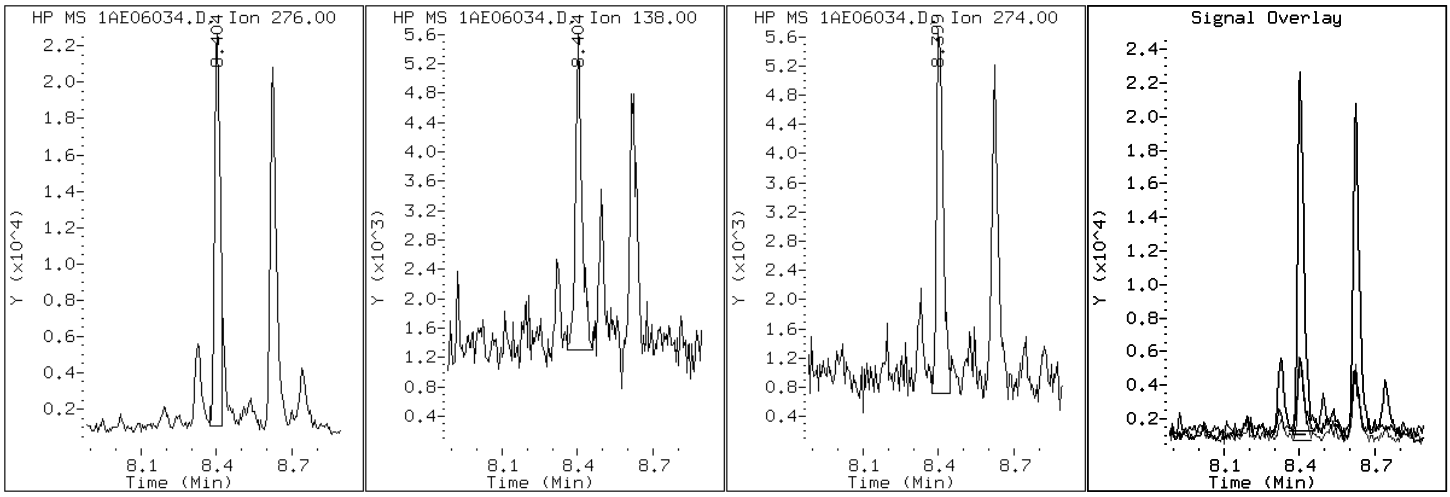
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

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



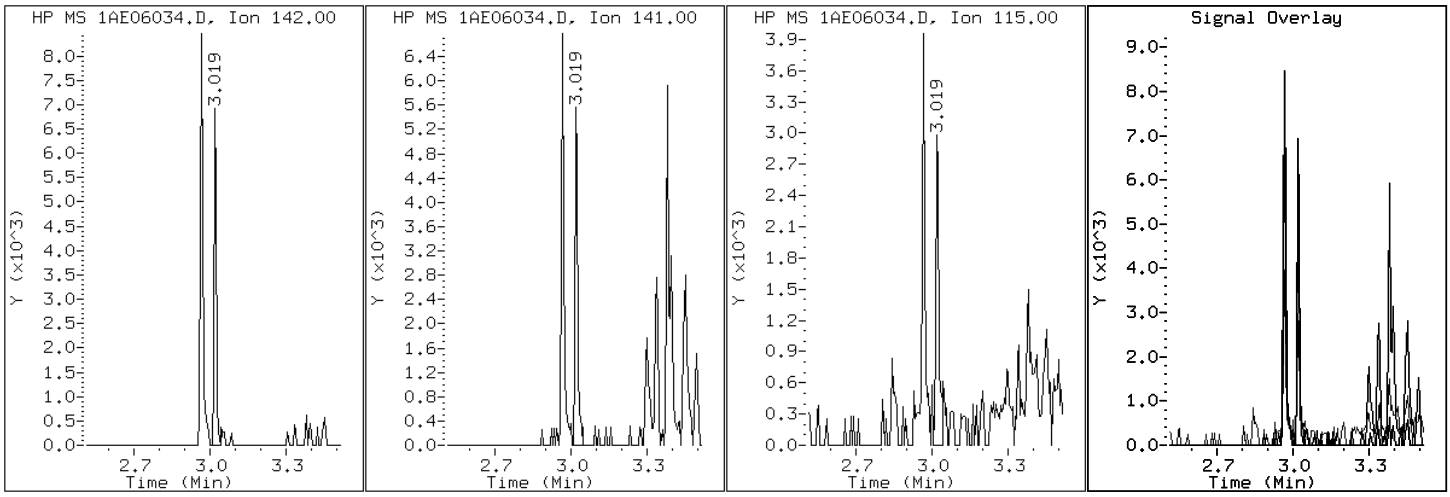
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

4 1-Methylnaphthalene



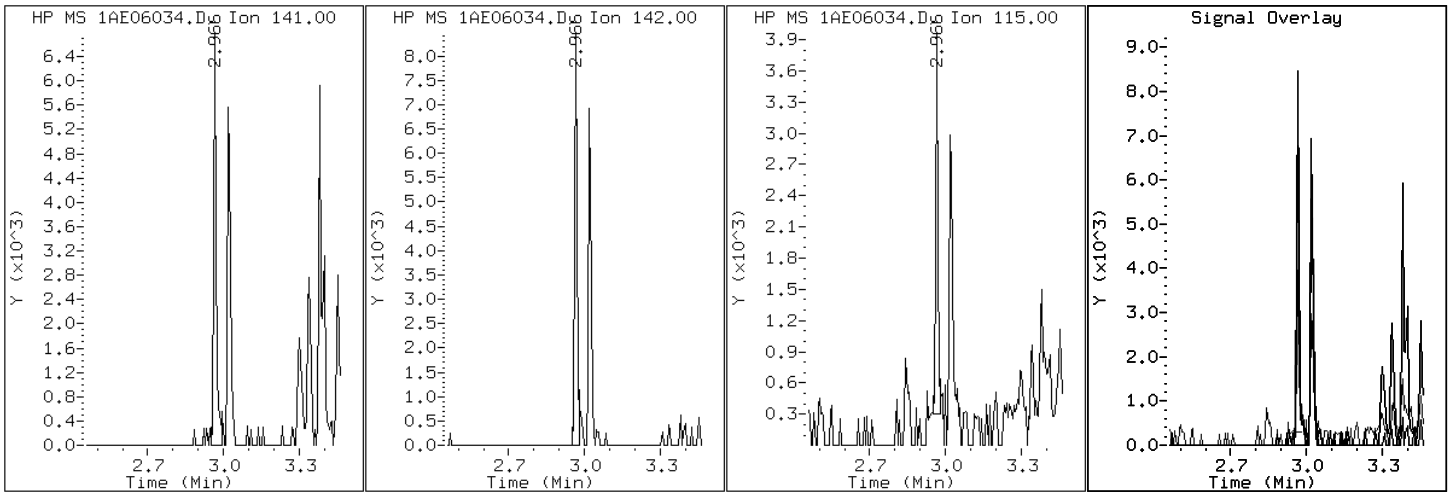
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

3 2-Methylnaphthalene



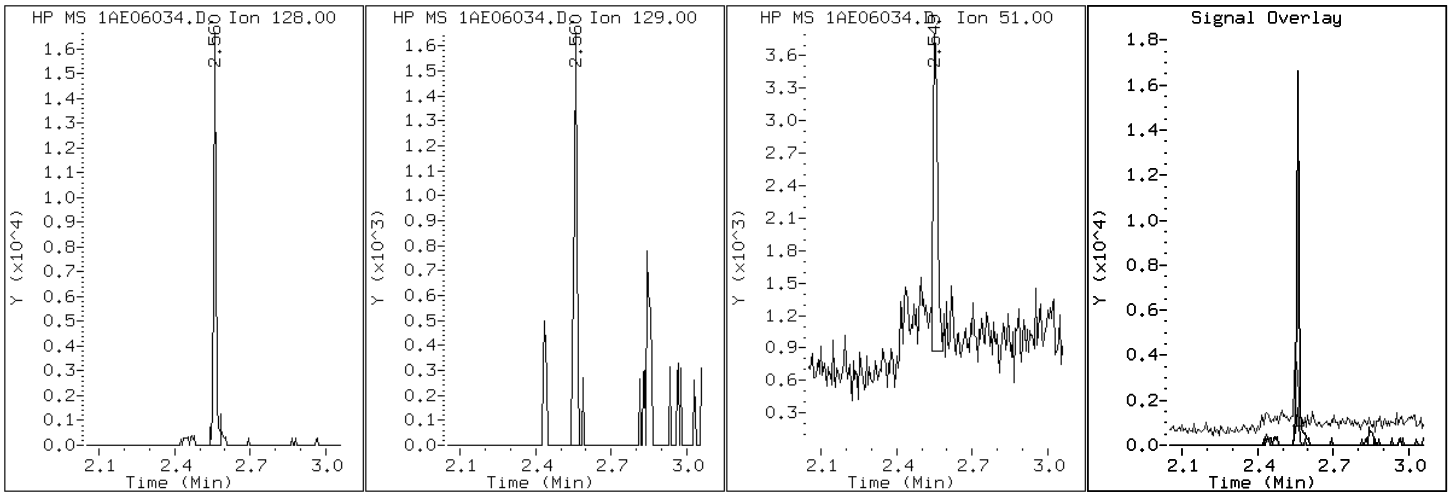
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

2 Naphthalene



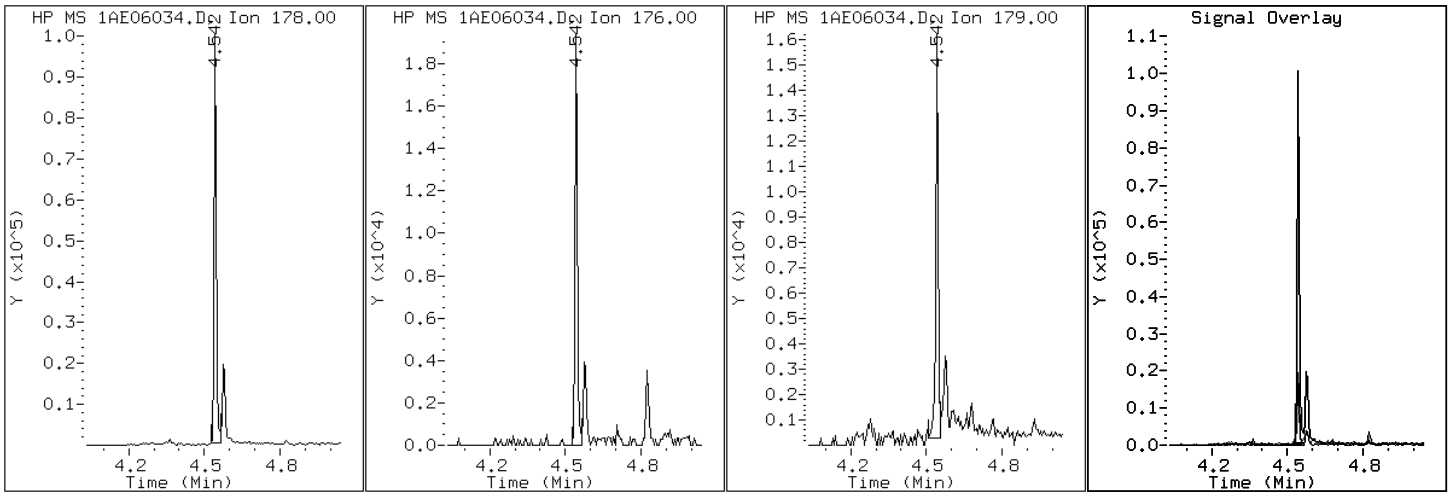
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

11 Phenanthrene



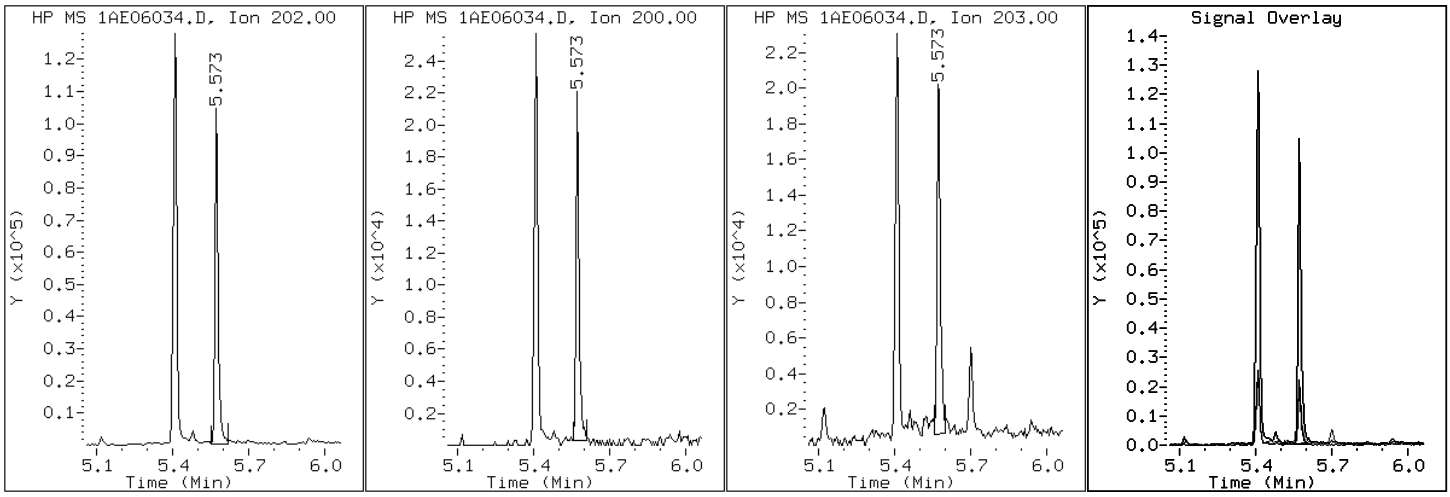
Data File: 1AE06034.D

Date: 06-MAY-2013 19:12

Client ID: CV0670D-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-10-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06034.D
Inj. Date and Time: 06-MAY-2013 19:12
Instrument ID: BSMA5973.i
Client ID: CV0670D-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

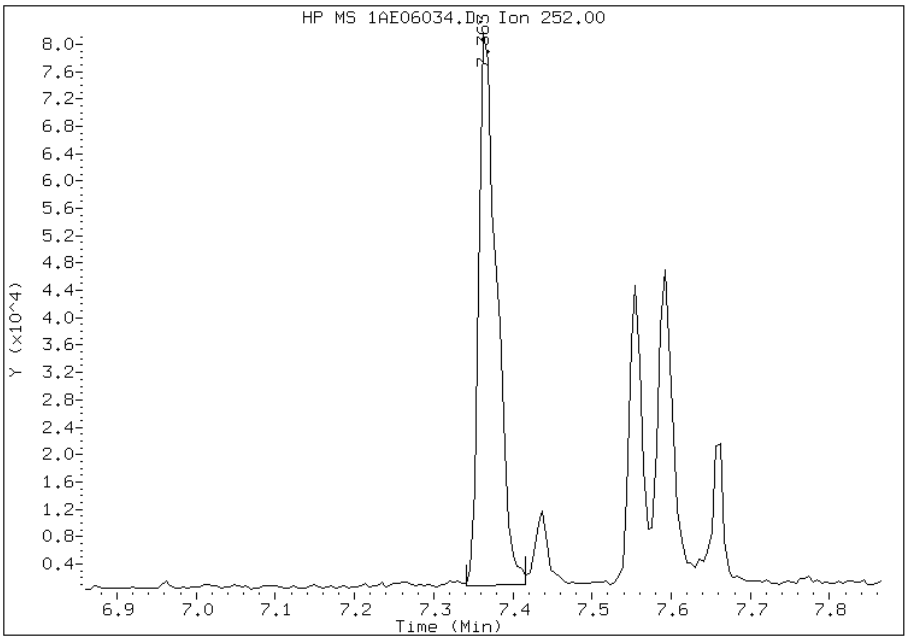
Processing Integration Results

RT: 7.36

Response: 127250

Amount: 4

Conc: 317



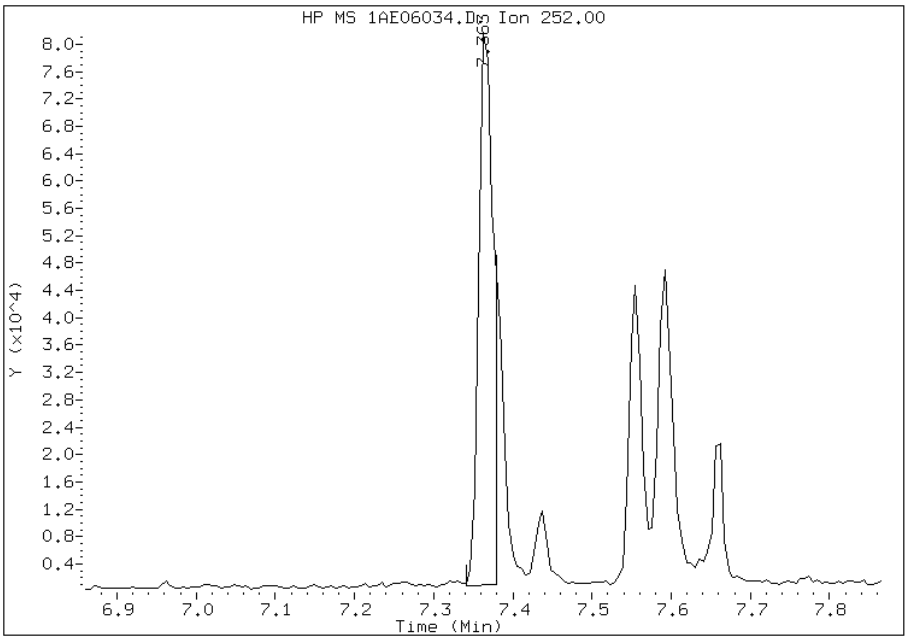
Manual Integration Results

RT: 7.36

Response: 102265

Amount: 3

Conc: 255



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06034.D
Inj. Date and Time: 06-MAY-2013 19:12
Instrument ID: BSMA5973.i
Client ID: CV0670D-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

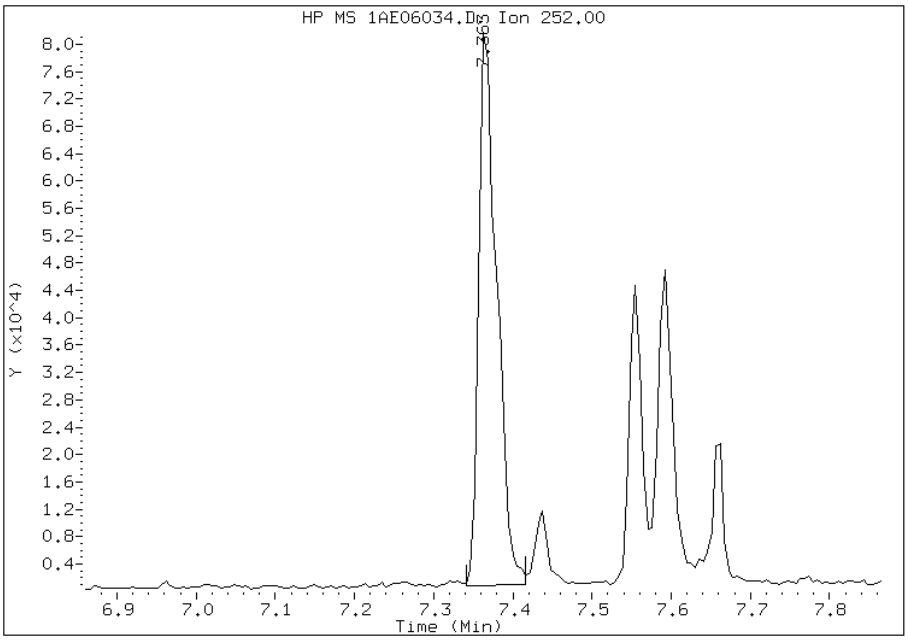
Processing Integration Results

RT: 7.36

Response: 127250

Amount: 3

Conc: 255



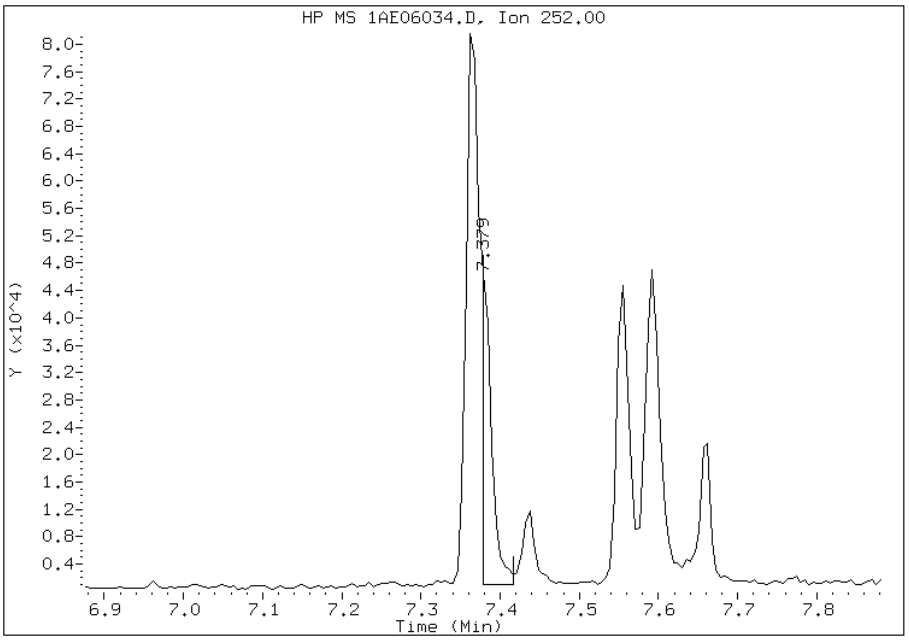
Manual Integration Results

RT: 7.38

Response: 39520

Amount: 1

Conc: 79



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06034.D
Inj. Date and Time: 06-MAY-2013 19:12
Instrument ID: BSMA5973.i
Client ID: CV0670D-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

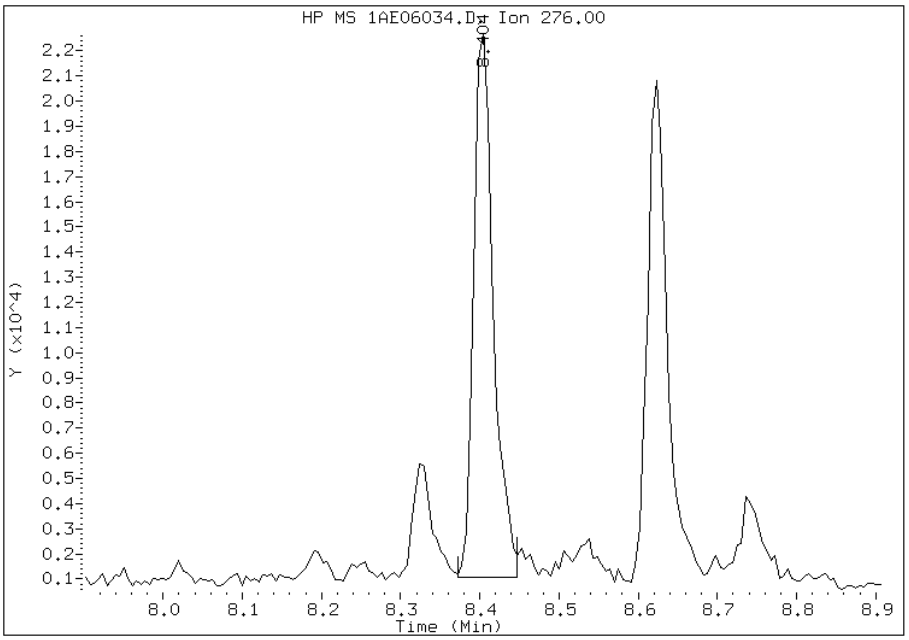
Processing Integration Results

RT: 8.40

Response: 37240

Amount: 1

Conc: 108



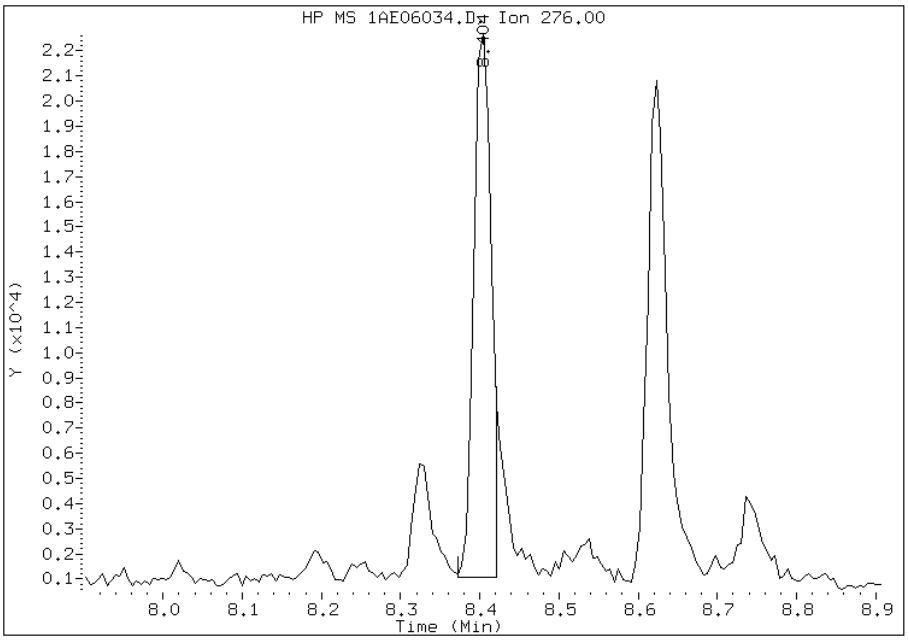
Manual Integration Results

RT: 8.40

Response: 32802

Amount: 1

Conc: 95



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0670E-CS-SP | Lab Sample ID: 680-89896-11

Matrix: Solid | Lab File ID: 1AE06035.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 10:15

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 15.04(g) | Date Analyzed: 05/06/2013 19:27

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

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

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

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	7.9	J	54	6.8
120-12-7	Anthracene	9.4	J	11	5.7
56-55-3	Benzo[a]anthracene	55		11	5.3
50-32-8	Benzo[a]pyrene	43		14	7.1
205-99-2	Benzo[b]fluoranthene	67		17	8.3
191-24-2	Benzo[g,h,i]perylene	31		27	6.0
207-08-9	Benzo[k]fluoranthene	27		11	4.9
218-01-9	Chrysene	59		12	6.1
53-70-3	Dibenz(a,h)anthracene	8.4	J	27	5.6
206-44-0	Fluoranthene	71		27	5.4
86-73-7	Fluorene	27	U	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	29		27	9.7
90-12-0	1-Methylnaphthalene	26	J	54	6.0
91-57-6	2-Methylnaphthalene	45	J	54	9.7
91-20-3	Naphthalene	35	J	54	6.0
85-01-8	Phenanthrene	50		11	5.3
129-00-0	Pyrene	53		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06035.D
Lab Smp Id: 680-89896-A-11-A Client Smp ID: CV0670E-CS-SP
Inj Date : 06-MAY-2013 19:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-11-a
Misc Info : 680-89896-A-11-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	15.040	Weight Extracted
M	26.775	% 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	2.552	2.544	(1.000)	1409529	40.0000	
*	6 Acenaphthene-d10	164	3.577	3.575	(1.000)	719711	40.0000	
*	10 Phenanthrene-d10	188	4.528	4.521	(1.000)	1098858	40.0000	
$	14 o-Terphenyl	230	4.828	4.820	(1.066)	71205	4.52755	411.1071
*	18 Chrysene-d12	240	6.558	6.535	(1.000)	1059276	40.0000	
*	23 Perylene-d12	264	7.648	7.630	(1.000)	1248679	40.0000	
	2 Naphthalene	128	2.562	2.555	(1.004)	12832	0.38658	35.1023
	3 2-Methylnaphthalene	141	2.968	2.961	(1.163)	8409	0.49848	45.2626
	4 1-Methylnaphthalene	142	3.022	3.014	(1.184)	5872	0.29041	26.3695
	5 Acenaphthylene	152	3.492	3.484	(0.976)	2948	0.08717	7.9152
	11 Phenanthrene	178	4.544	4.537	(1.004)	14877	0.54648	49.6210
	12 Anthracene	178	4.576	4.569	(1.011)	2989	0.10307	9.3590(Q)
	13 Carbazole	167	4.715	4.702	(1.041)	3211	0.12315	11.1823(Q)
	15 Fluoranthene	202	5.410	5.397	(1.195)	24396	0.77898	70.7319

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	5.575	5.562	(0.850)	19889	0.58413	53.0393
17 Benzo(a)anthracene	228	6.548	6.524	(0.998)	17928	0.60221	54.6816
19 Chrysene	228	6.569	6.551	(1.002)	21612	0.64521	58.5863
20 Benzo(b)fluoranthene	252	7.365	7.347	(0.963)	24529	0.74320	67.4832(M)
21 Benzo(k)fluoranthene	252	7.376	7.368	(0.964)	12072	0.29483	26.7712(M)
22 Benzo(a)pyrene	252	7.589	7.576	(0.992)	15949	0.47053	42.7249
24 Indeno(1,2,3-cd)pyrene	276	8.407	8.388	(1.099)	8982	0.31631	28.7216(M)
25 Dibenzo(a,h)anthracene	278	8.423	8.414	(1.101)	2699	0.09273	8.4195
26 Benzo(g,h,i)perylene	276	8.620	8.602	(1.127)	10502	0.34393	31.2291

QC Flag Legend

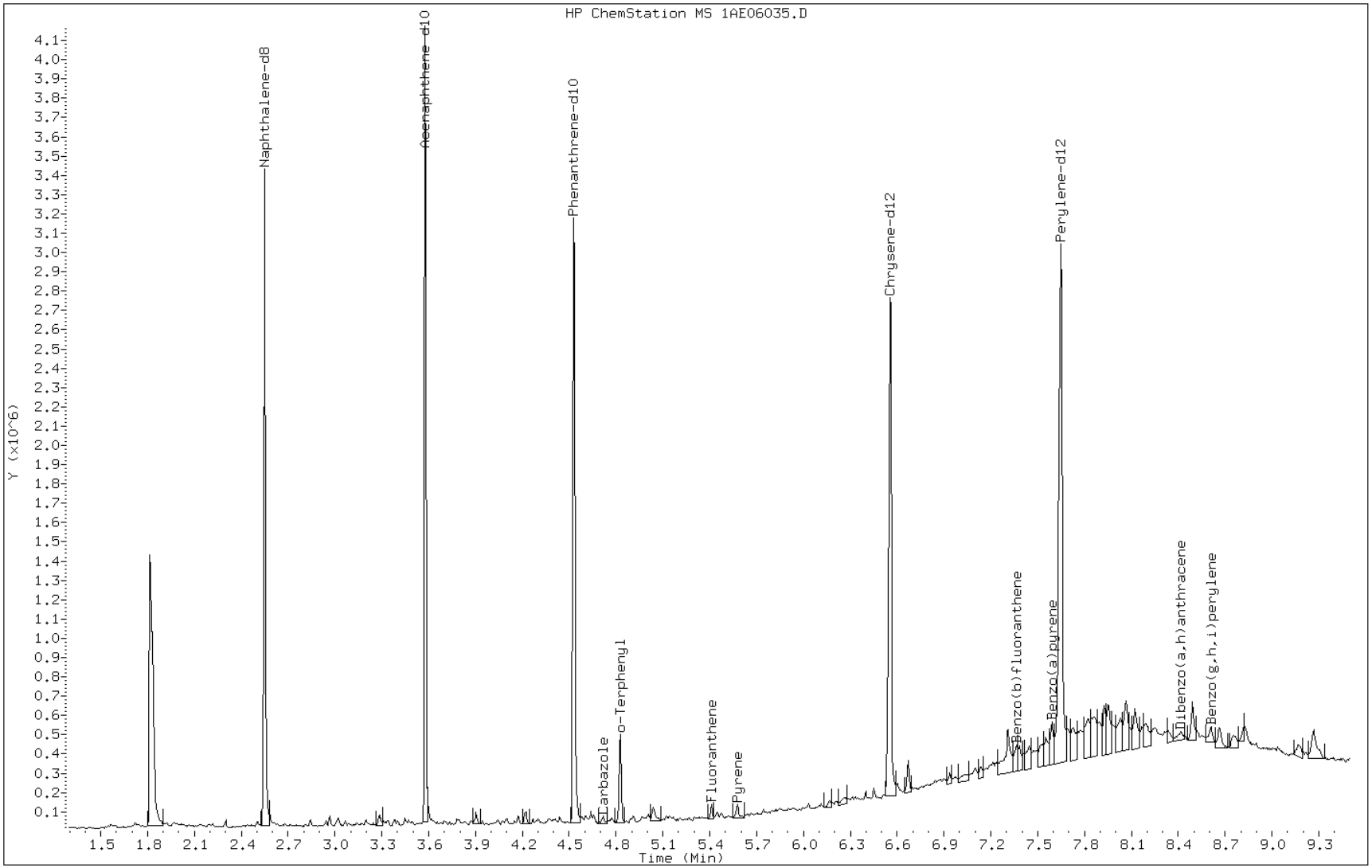
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC



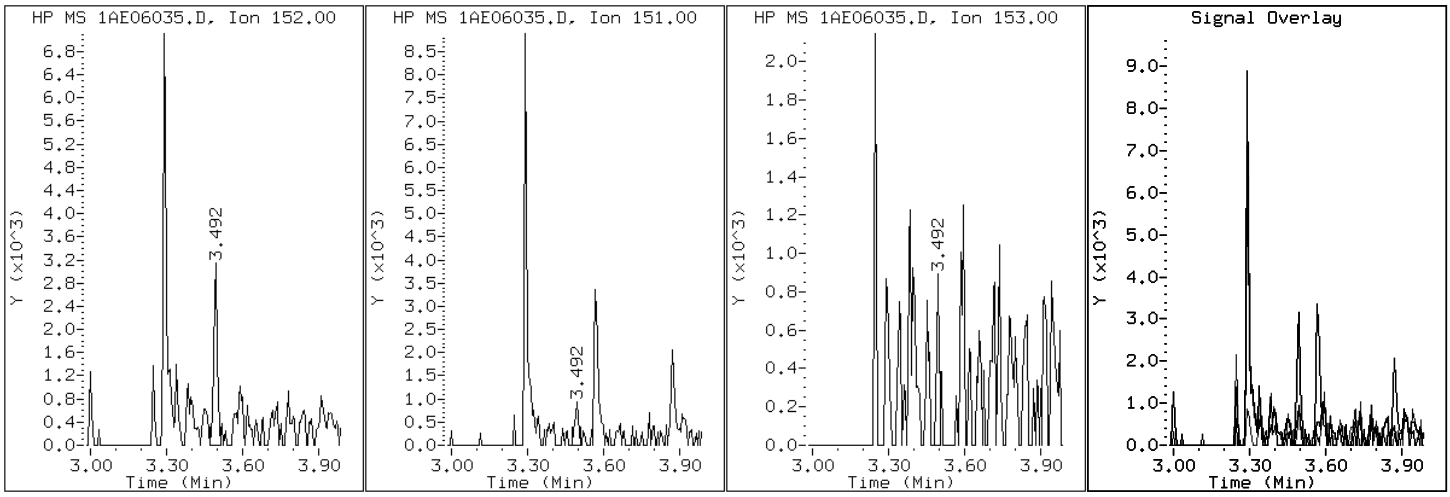
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

5 Acenaphthylene



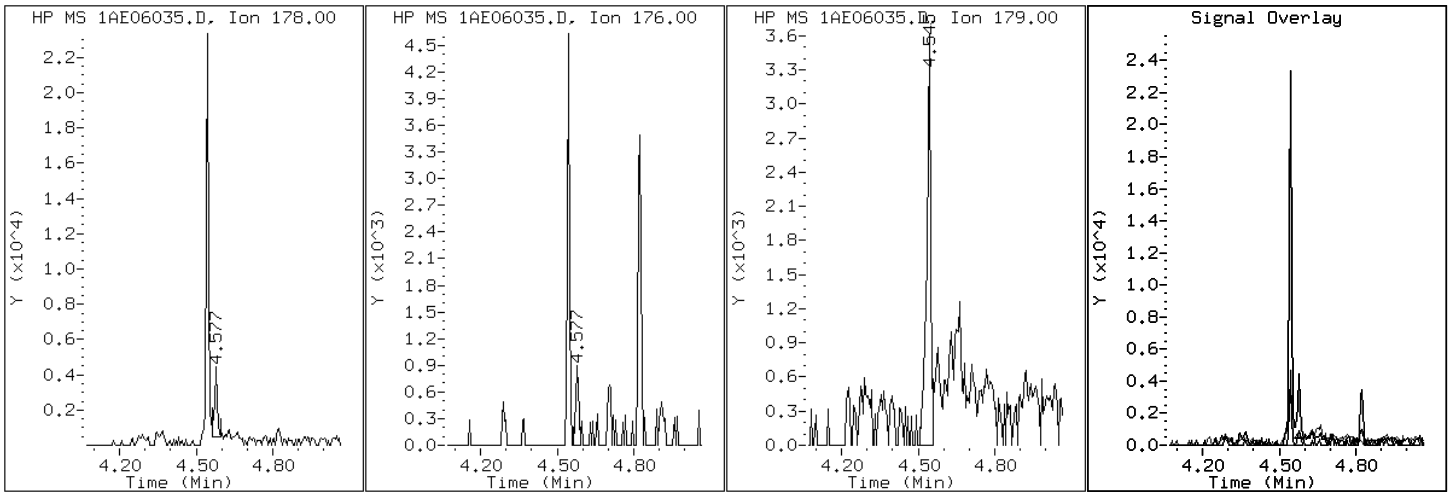
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

12 Anthracene



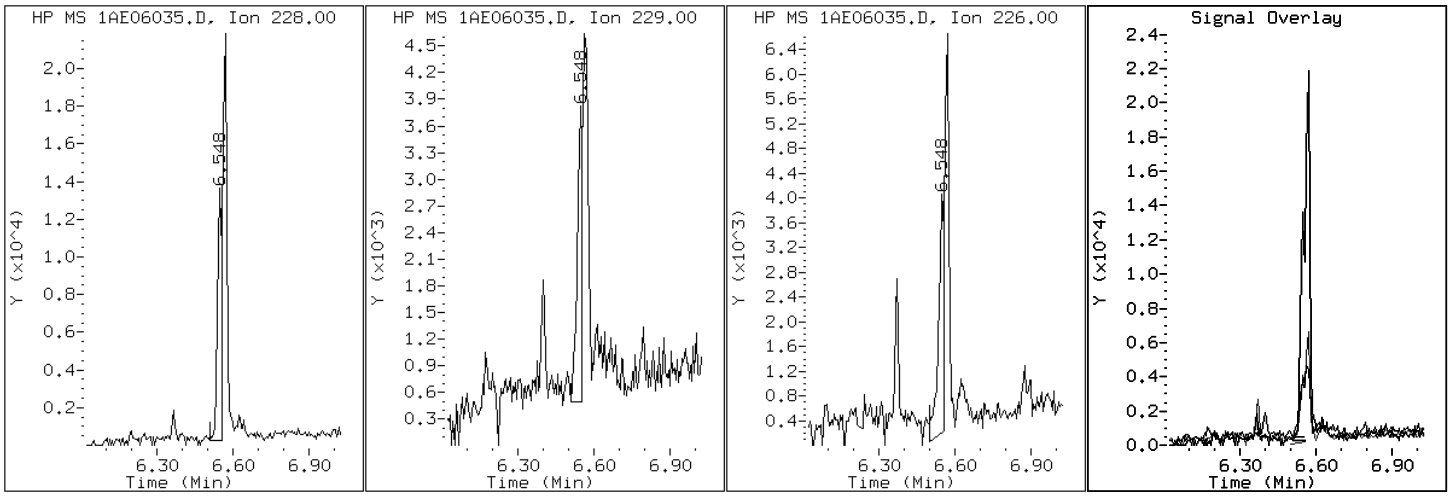
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

17 Benzo(a)anthracene



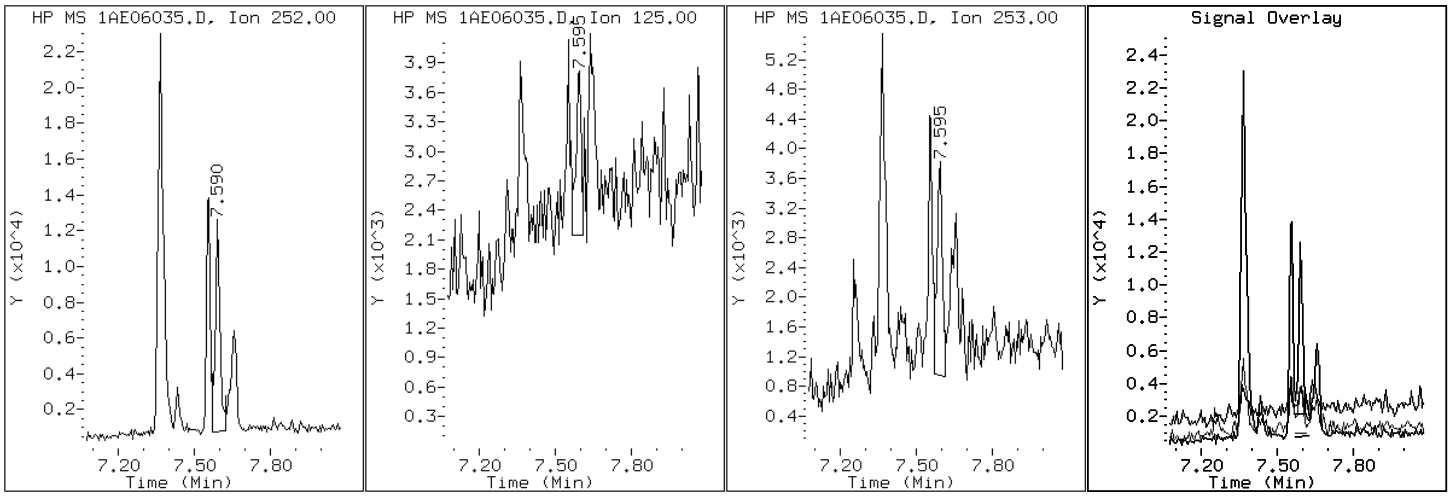
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

22 Benzo(a)pyrene



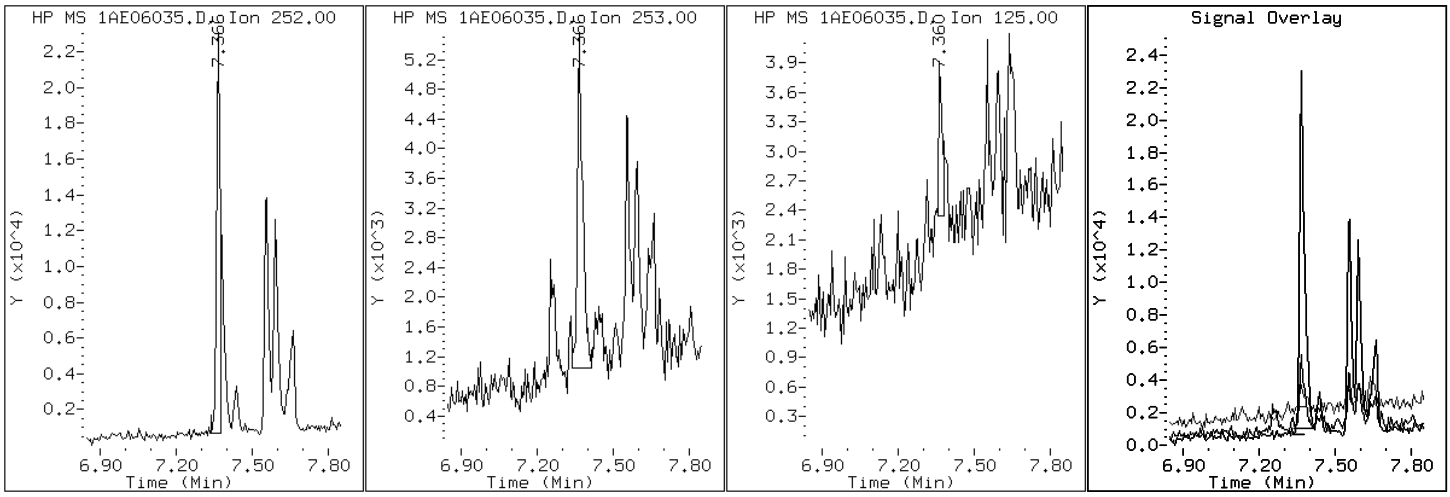
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

20 Benzo(b)fluoranthene



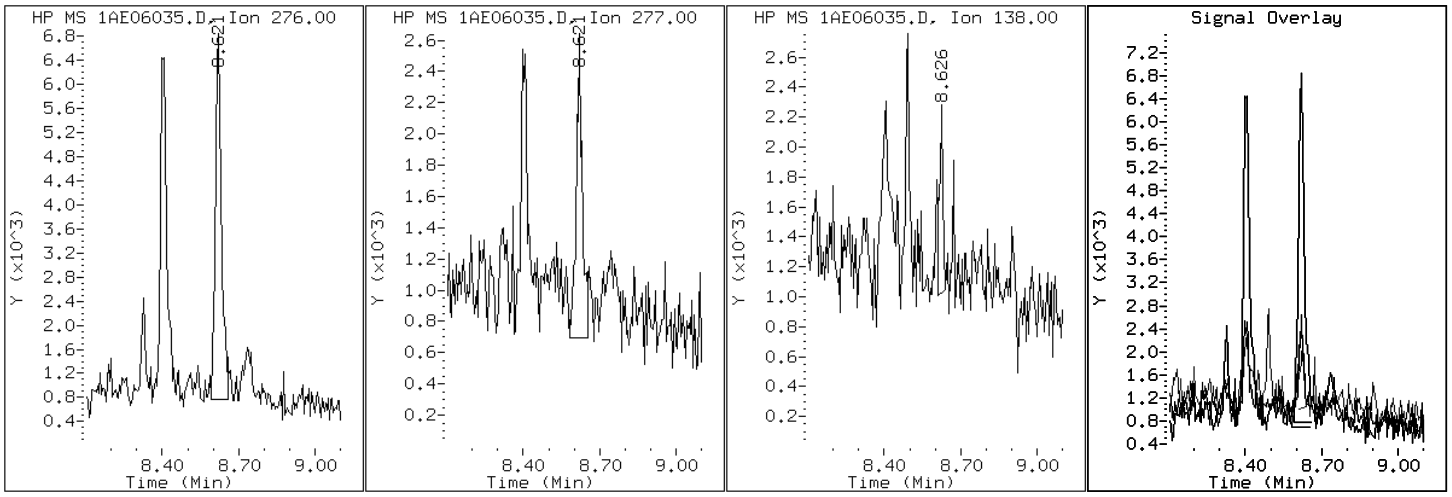
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

26 Benzo(g,h,i)perylene



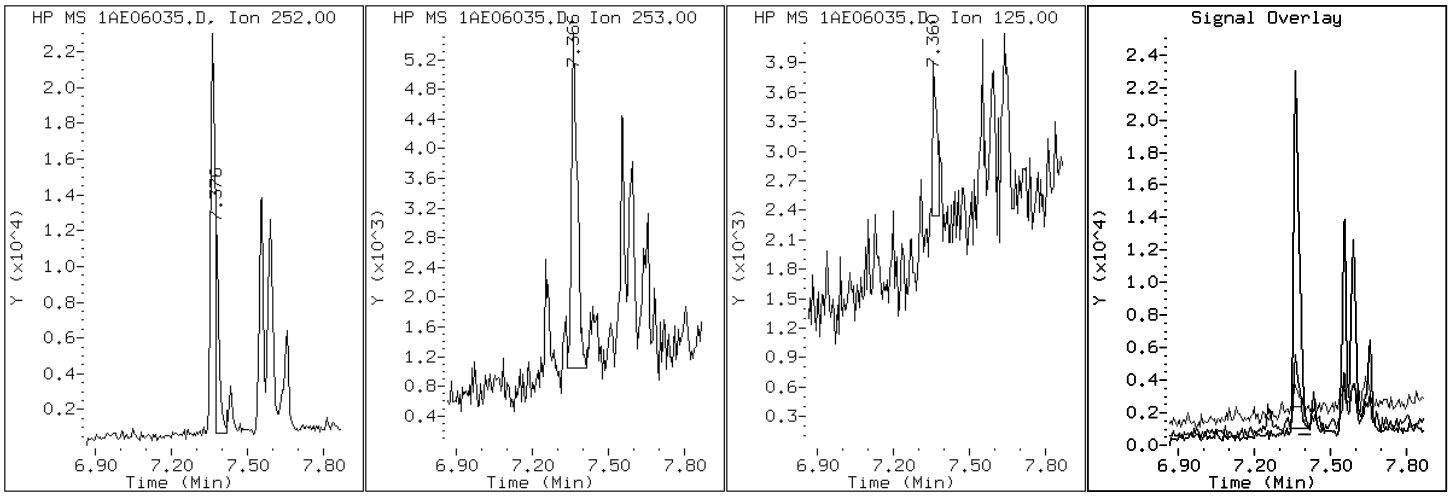
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

21 Benzo(k)fluoranthene



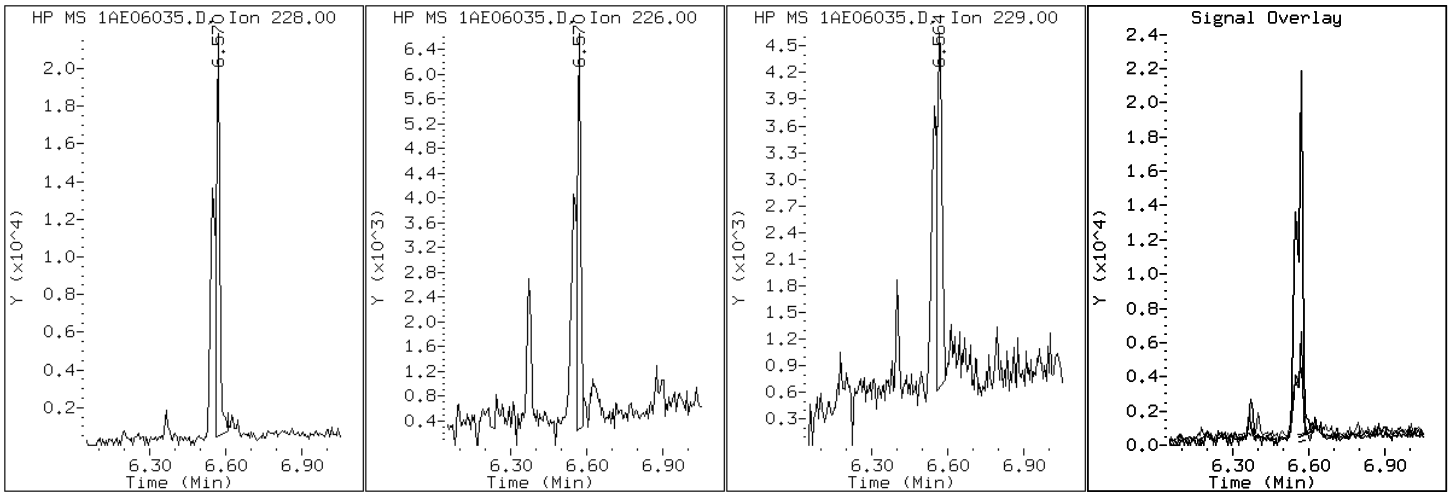
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

19 Chrysene



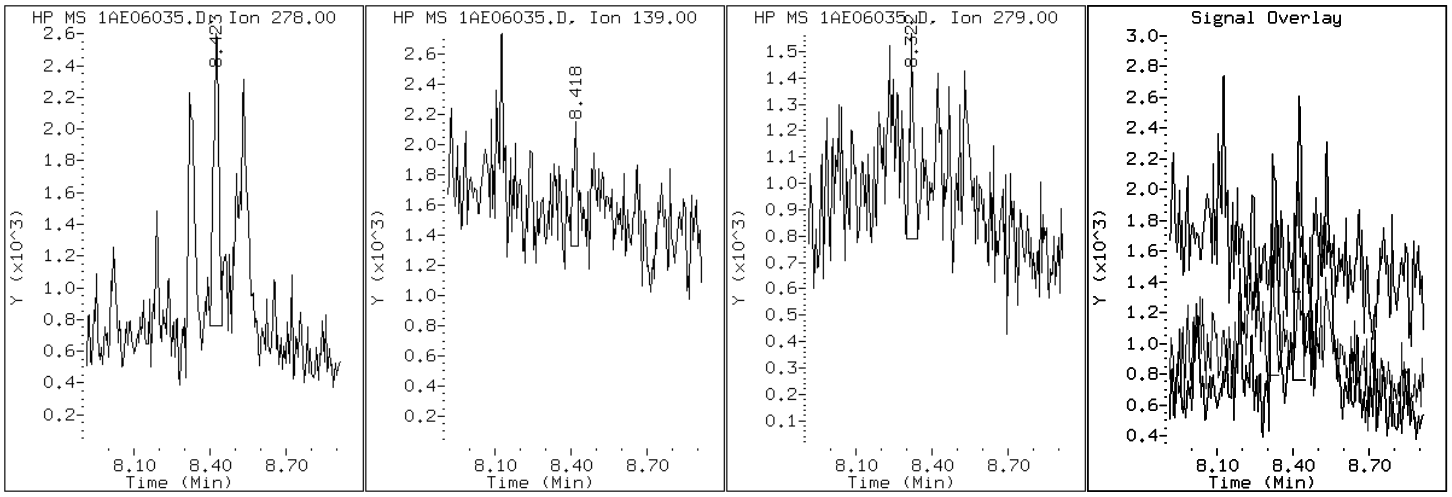
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

25 Dibenzo(a,h)anthracene



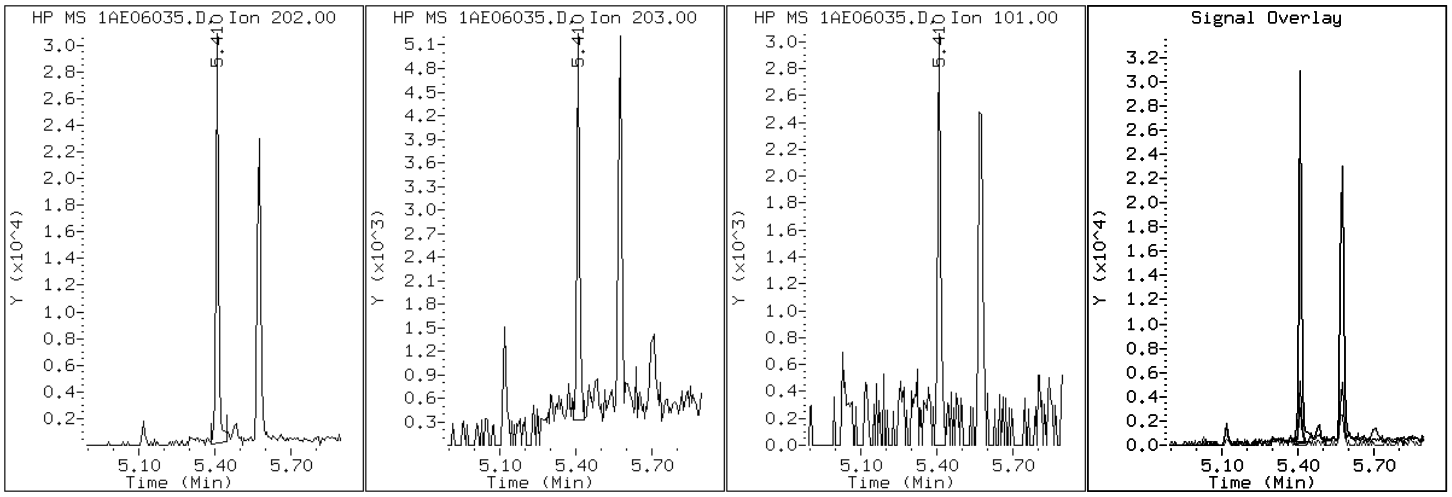
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

15 Fluoranthene



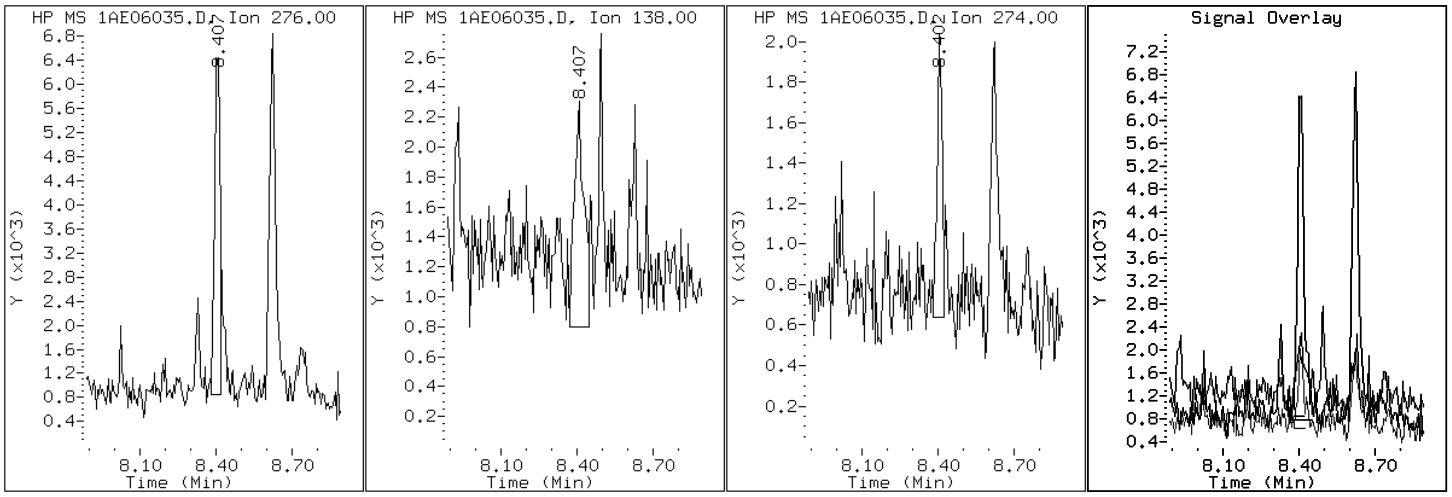
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

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



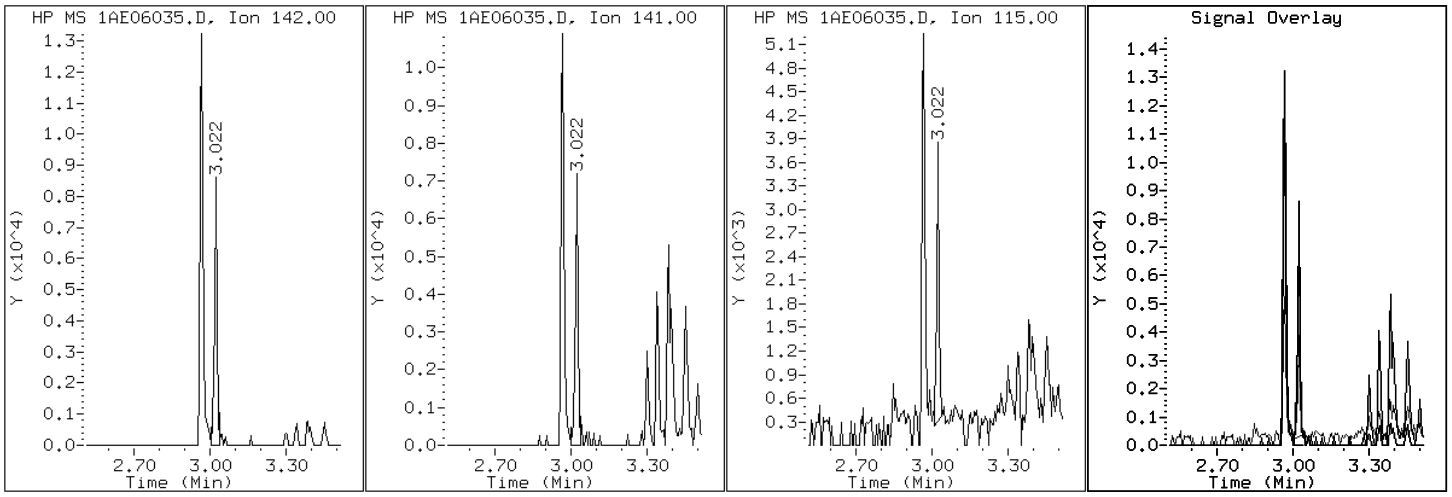
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

4 1-Methylnaphthalene



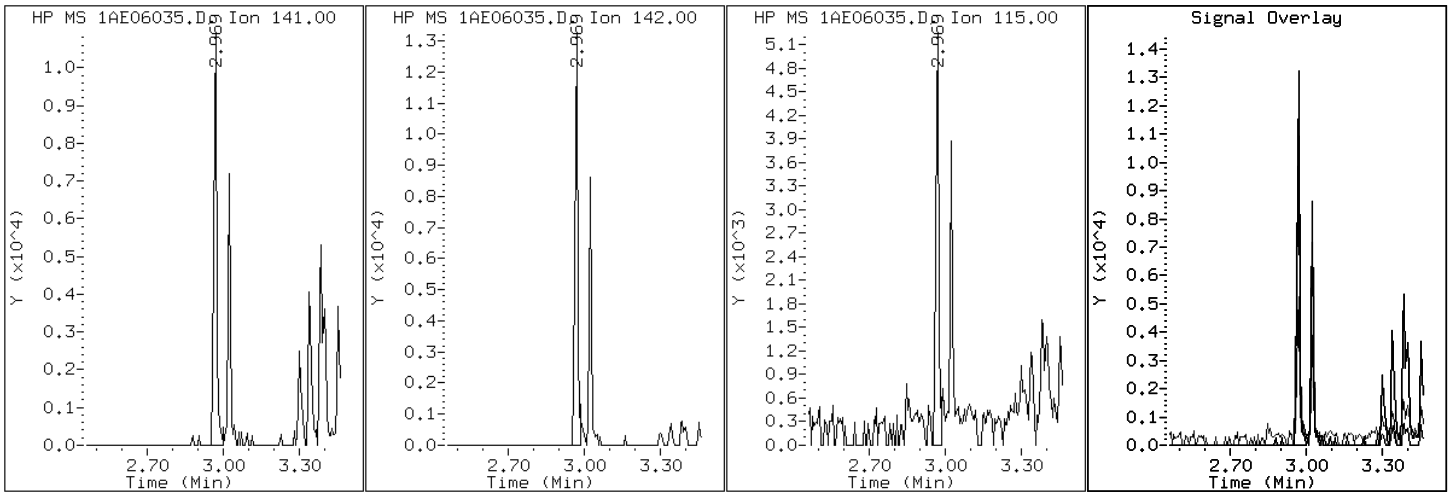
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

3 2-Methylnaphthalene



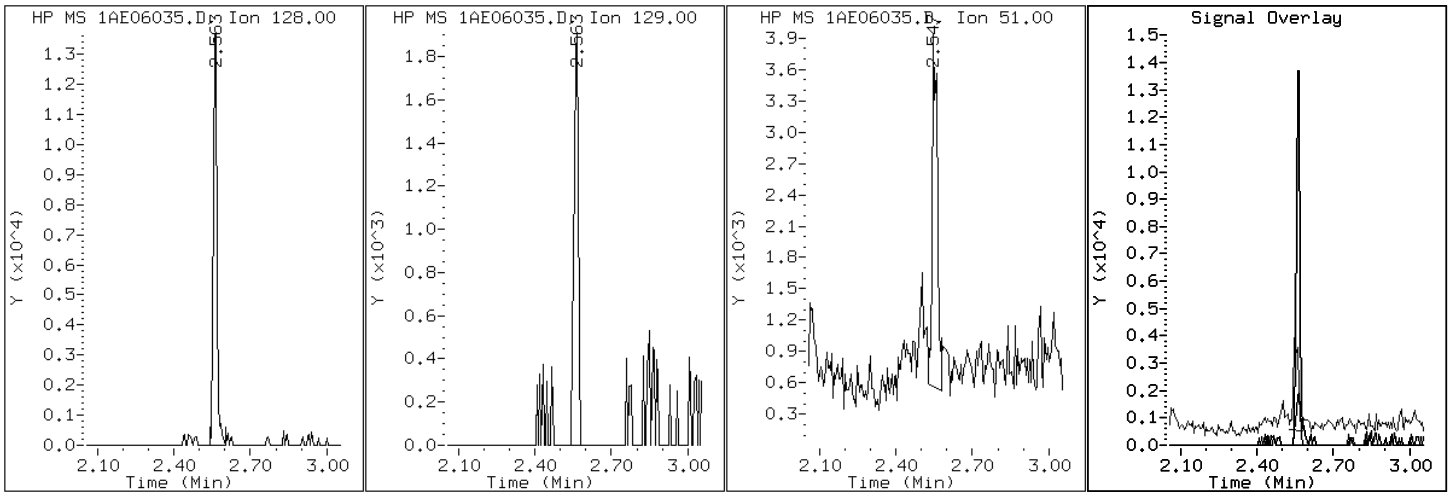
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

2 Naphthalene



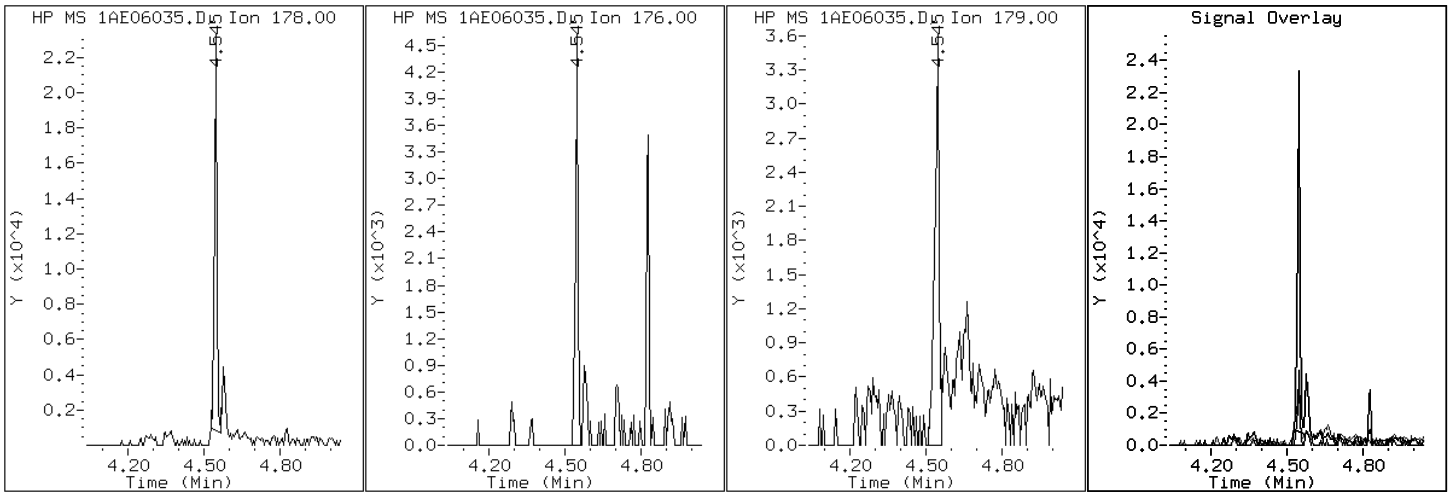
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

11 Phenanthrene



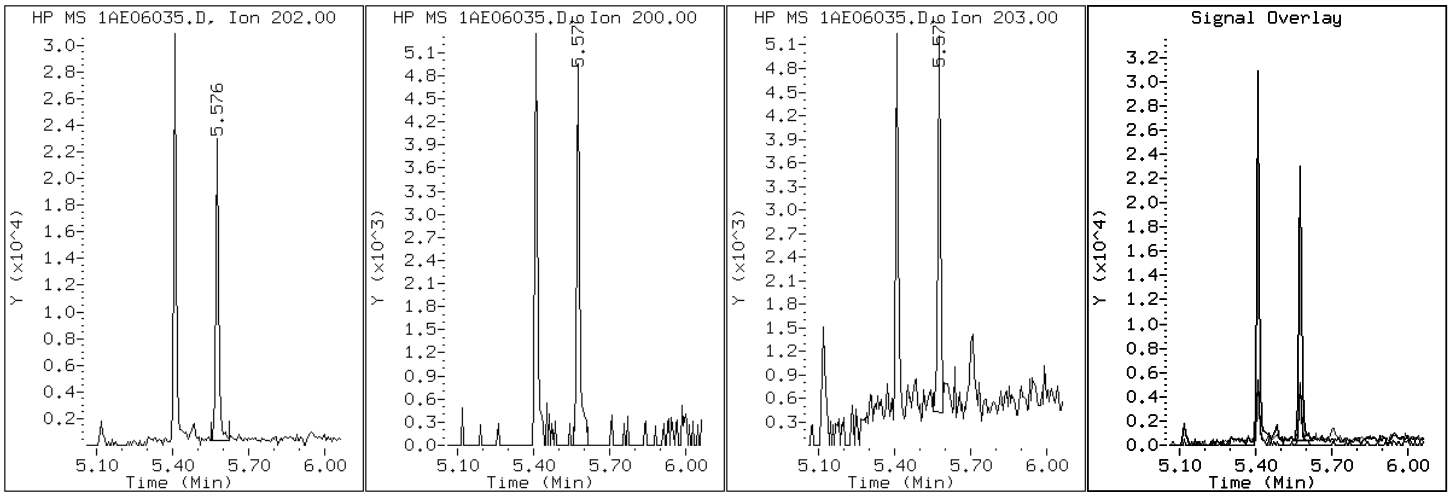
Data File: 1AE06035.D

Date: 06-MAY-2013 19:27

Client ID: CV0670E-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-11-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06035.D
Inj. Date and Time: 06-MAY-2013 19:27
Instrument ID: BSMA5973.i
Client ID: CV0670E-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

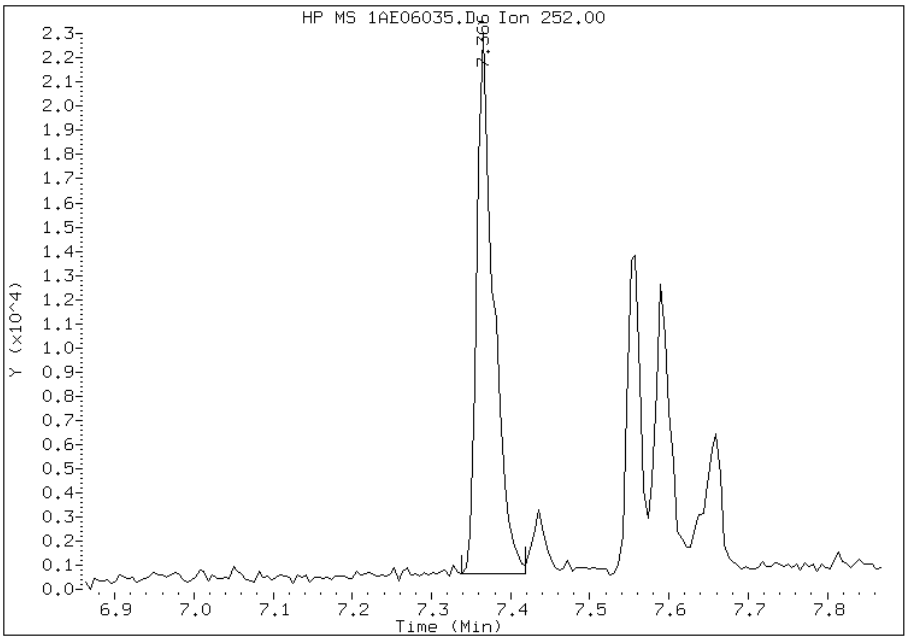
Processing Integration Results

RT: 7.37

Response: 32910

Amount: 1

Conc: 91



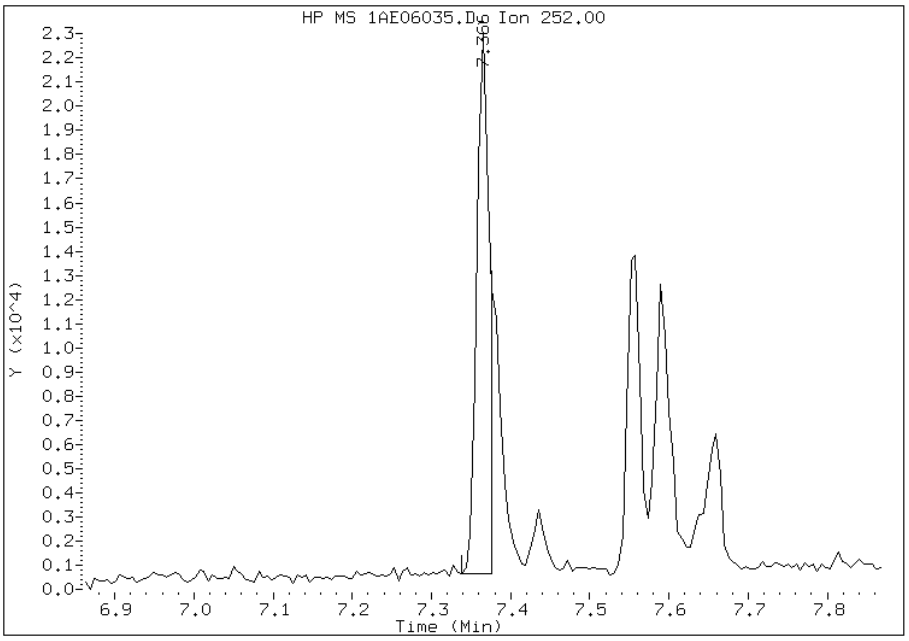
Manual Integration Results

RT: 7.37

Response: 24529

Amount: 1

Conc: 67



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06035.D
Inj. Date and Time: 06-MAY-2013 19:27
Instrument ID: BSMA5973.i
Client ID: CV0670E-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

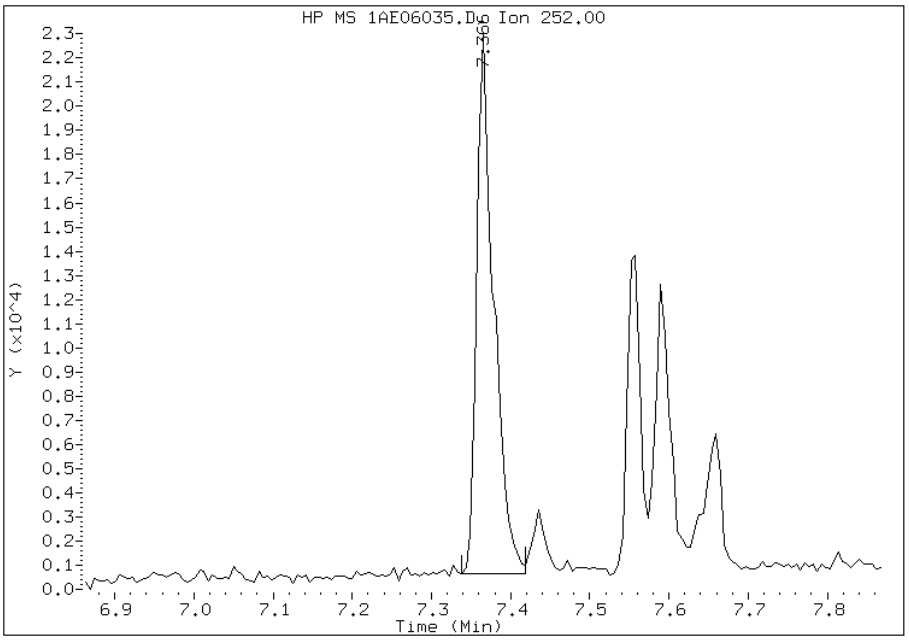
Processing Integration Results

RT: 7.37

Response: 32910

Amount: 1

Conc: 73



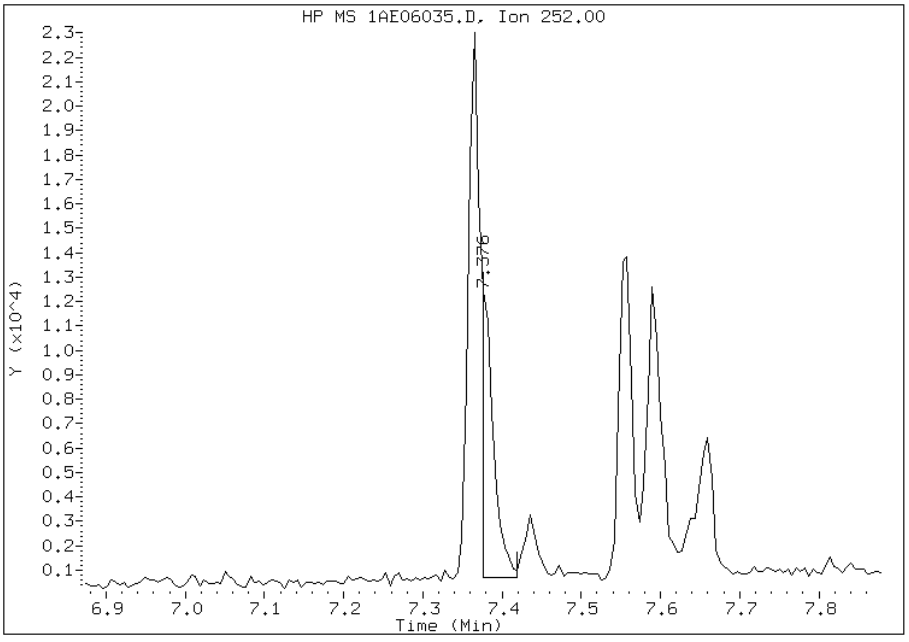
Manual Integration Results

RT: 7.38

Response: 12072

Amount: 0

Conc: 27



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06035.D
Inj. Date and Time: 06-MAY-2013 19:27
Instrument ID: BSMA5973.i
Client ID: CV0670E-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

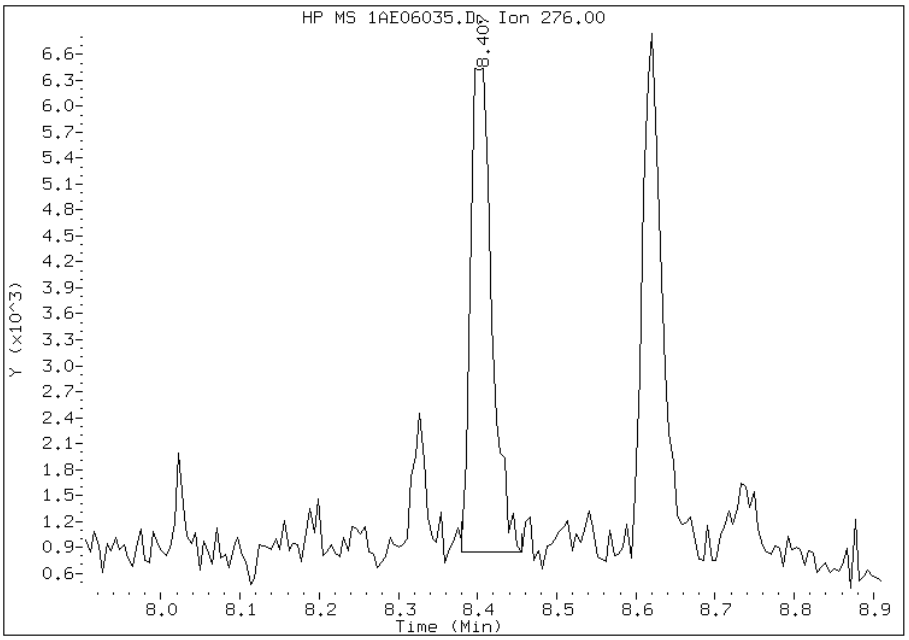
Processing Integration Results

RT: 8.41

Response: 10418

Amount: 0

Conc: 33



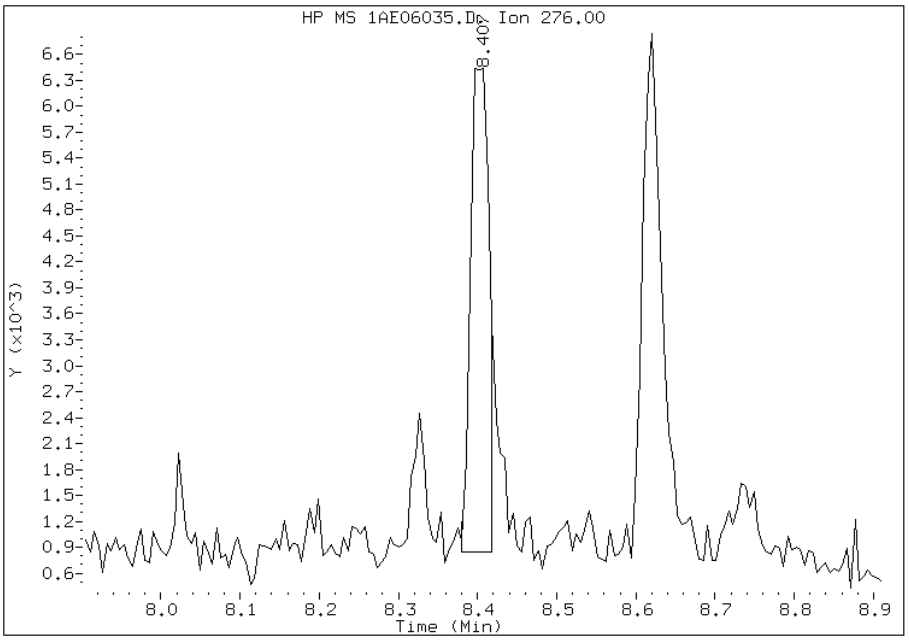
Manual Integration Results

RT: 8.41

Response: 8982

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0466A-CS-SP | Lab Sample ID: 680-89896-12

Matrix: Solid | Lab File ID: 1AE06036.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 14:10

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 14.93(g) | Date Analyzed: 05/06/2013 19:43

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

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

% Moisture: 24.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	17	J	53	6.6
120-12-7	Anthracene	39		11	5.6
56-55-3	Benzo[a]anthracene	150		11	5.2
50-32-8	Benzo[a]pyrene	110		14	6.9
205-99-2	Benzo[b]fluoranthene	180		16	8.1
191-24-2	Benzo[g,h,i]perylene	69		27	5.8
207-08-9	Benzo[k]fluoranthene	62		11	4.8
218-01-9	Chrysene	130		12	6.0
53-70-3	Dibenz(a,h)anthracene	27		27	5.4
206-44-0	Fluoranthene	200		27	5.3
86-73-7	Fluorene	11	J	27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	63		27	9.4
90-12-0	1-Methylnaphthalene	65		53	5.8
91-57-6	2-Methylnaphthalene	90		53	9.4
91-20-3	Naphthalene	75		53	5.8
85-01-8	Phenanthrene	160		11	5.2
129-00-0	Pyrene	150		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	47		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06036.D
Lab Smp Id: 680-89896-A-12-A Client Smp ID: CV0466A-CS-SP
Inj Date : 06-MAY-2013 19:43
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-12-a
Misc Info : 680-89896-A-12-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	14.930	Weight Extracted
M	24.283	% 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	2.550	2.544	(1.000)	1368075	40.0000	
* 6 Acenaphthene-d10	164	3.581	3.575	(1.000)	716606	40.0000	
* 10 Phenanthrene-d10	188	4.532	4.521	(1.000)	1014887	40.0000	
$ 14 o-Terphenyl	230	4.826	4.820	(1.065)	68138	4.69101	414.9637
* 18 Chrysene-d12	240	6.557	6.535	(1.000)	1076557	40.0000	
* 23 Perylene-d12	264	7.652	7.630	(1.000)	1204786	40.0000	
2 Naphthalene	128	2.561	2.555	(1.004)	27231	0.84524	74.7691
3 2-Methylnaphthalene	141	2.967	2.961	(1.163)	16647	1.01672	89.9389
4 1-Methylnaphthalene	142	3.020	3.014	(1.184)	14360	0.73172	64.7273
5 Acenaphthylene	152	3.491	3.484	(0.975)	6599	0.19598	17.3358
9 Fluorene	166	3.913	3.901	(1.092)	2782	0.12624	11.1671(Q)
11 Phenanthrene	178	4.543	4.537	(1.002)	45433	1.80698	159.8447
12 Anthracene	178	4.580	4.569	(1.011)	11855	0.44263	39.1547
13 Carbazole	167	4.719	4.702	(1.041)	6037	0.25069	22.1762

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.414	5.397	(1.194)	66949	2.31459	204.7470
16 Pyrene	202	5.579	5.562	(0.851)	57133	1.65102	146.0484
17 Benzo(a)anthracene	228	6.552	6.524	(0.999)	50132	1.65693	146.5714
19 Chrysene	228	6.573	6.551	(1.002)	51210	1.50431	133.0700
20 Benzo(b)fluoranthene	252	7.369	7.347	(0.963)	63259	1.98650	175.7243(M)
21 Benzo(k)fluoranthene	252	7.380	7.368	(0.964)	27836	0.70460	62.3289(QM)
22 Benzo(a)pyrene	252	7.593	7.576	(0.992)	40067	1.22513	108.3747
24 Indeno(1,2,3-cd)pyrene	276	8.405	8.388	(1.098)	19631	0.71652	63.3828(M)
25 Dibenzo(a,h)anthracene	278	8.427	8.414	(1.101)	8450	0.30088	26.6156
26 Benzo(g,h,i)perylene	276	8.624	8.602	(1.127)	23049	0.78233	69.2043

QC Flag Legend

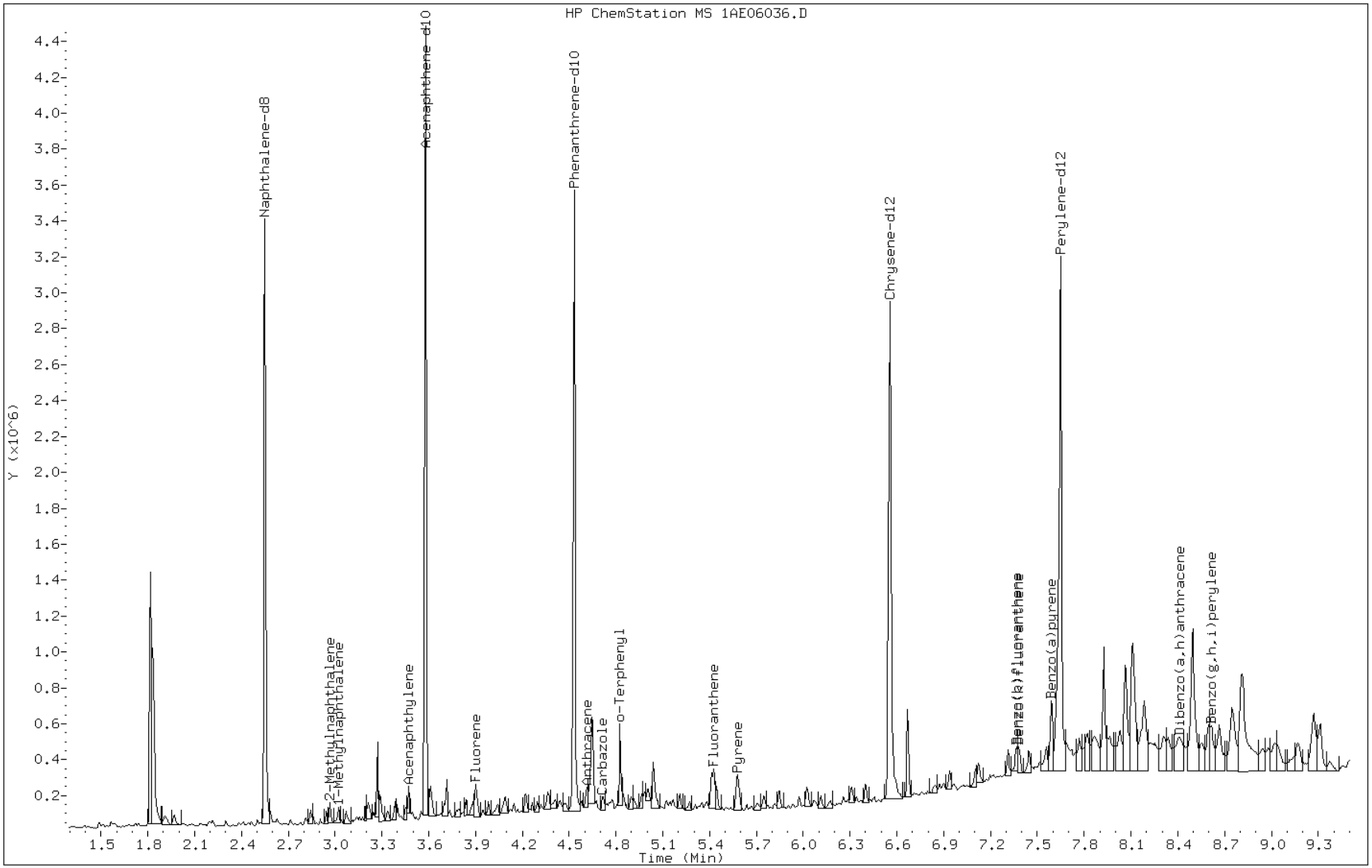
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC



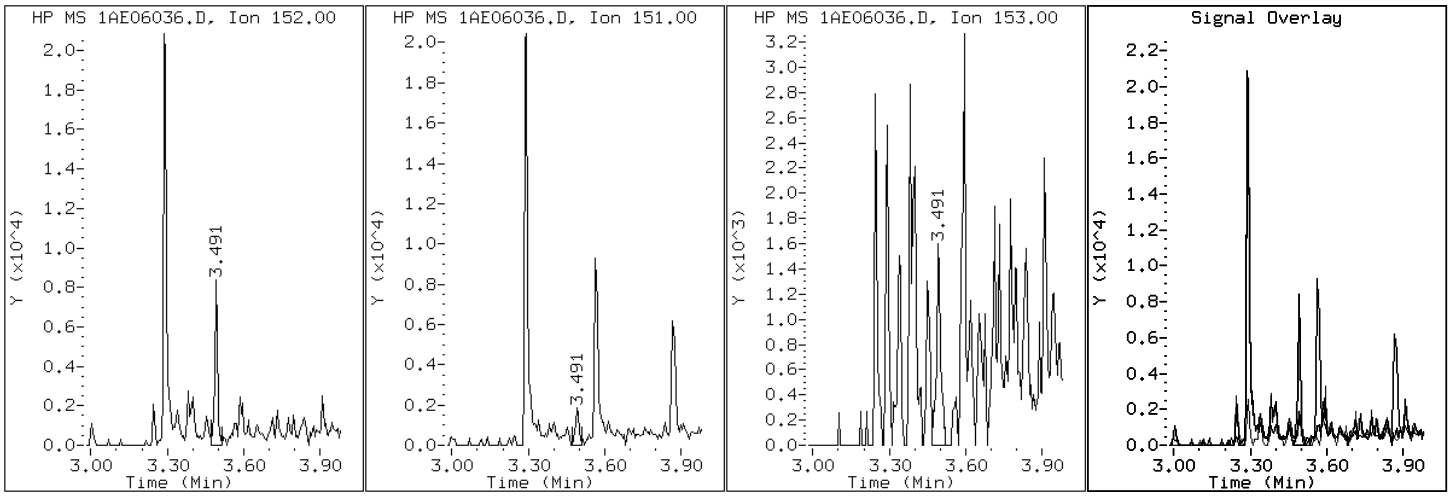
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

5 Acenaphthylene



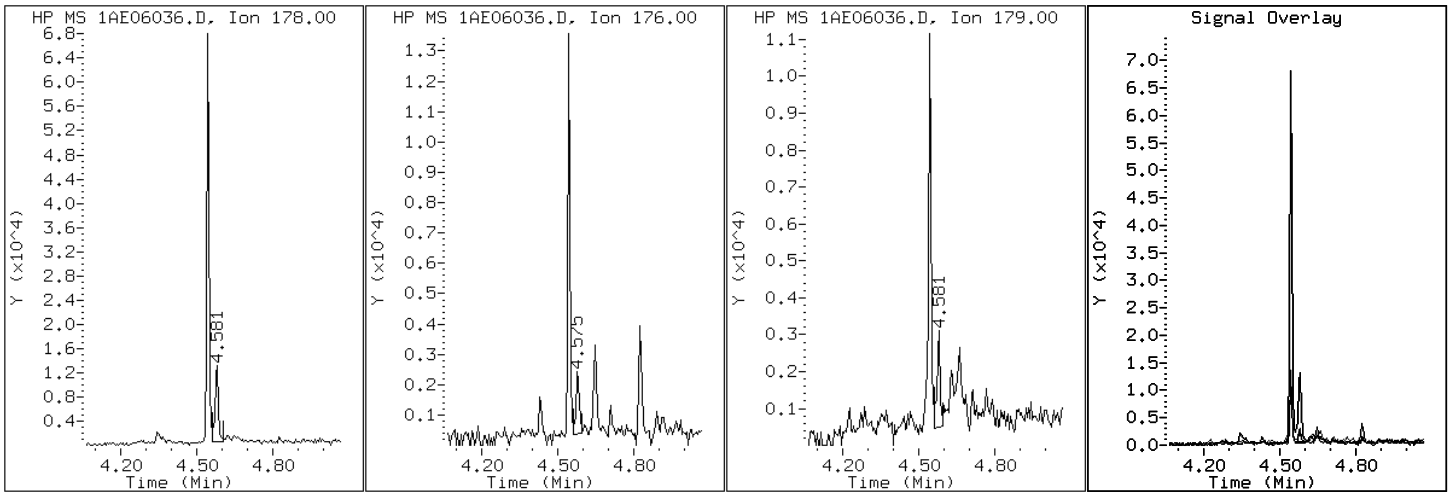
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

12 Anthracene



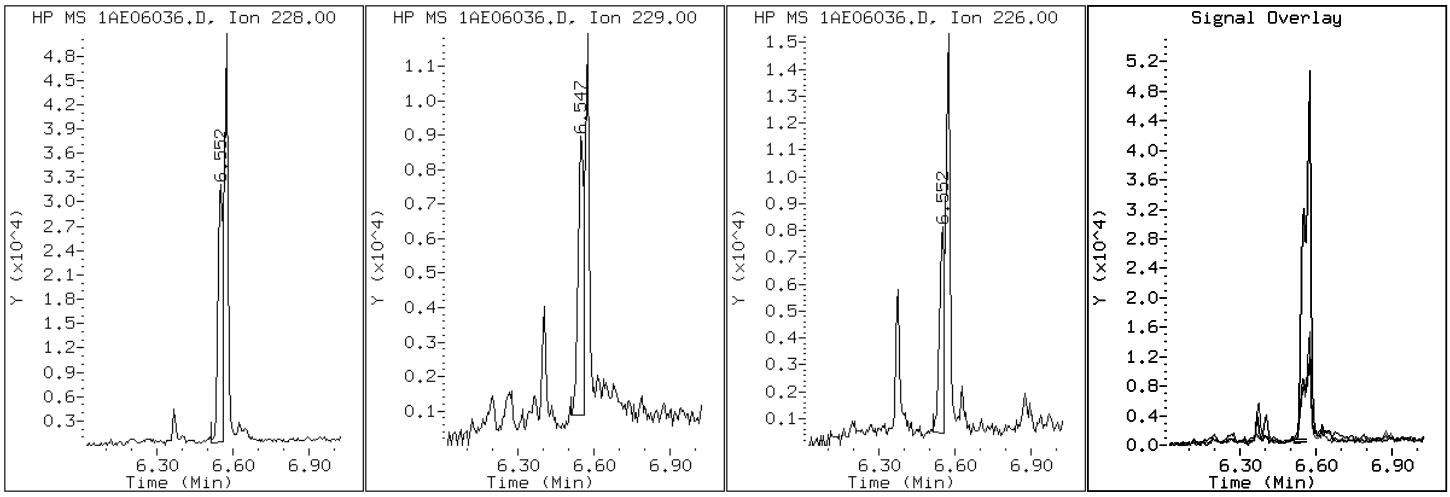
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

17 Benzo(a)anthracene



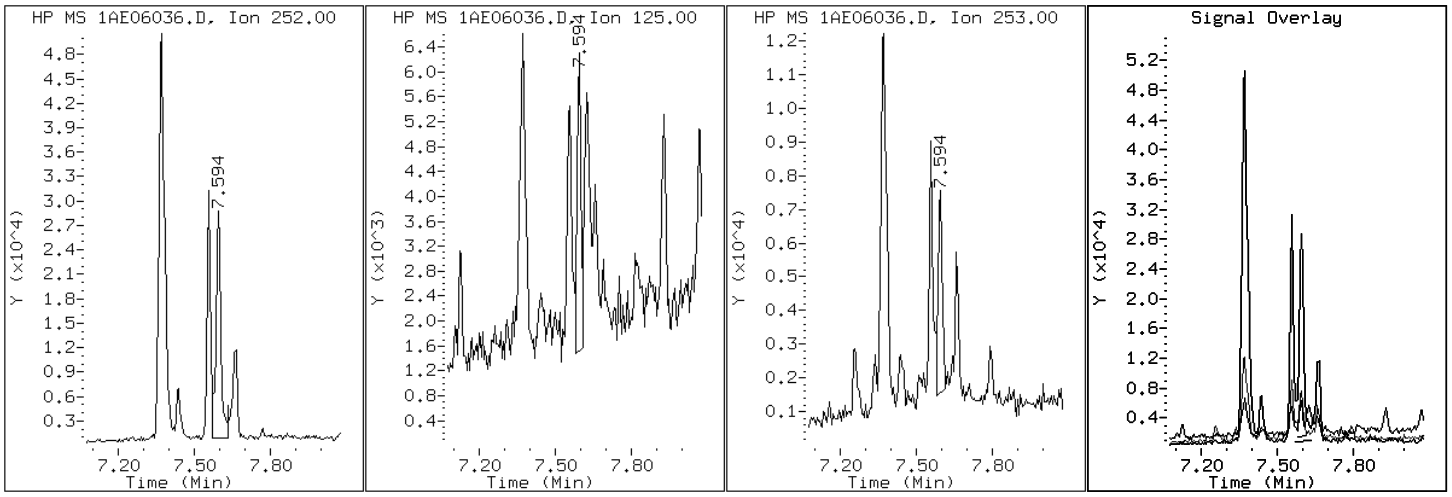
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

22 Benzo(a)pyrene



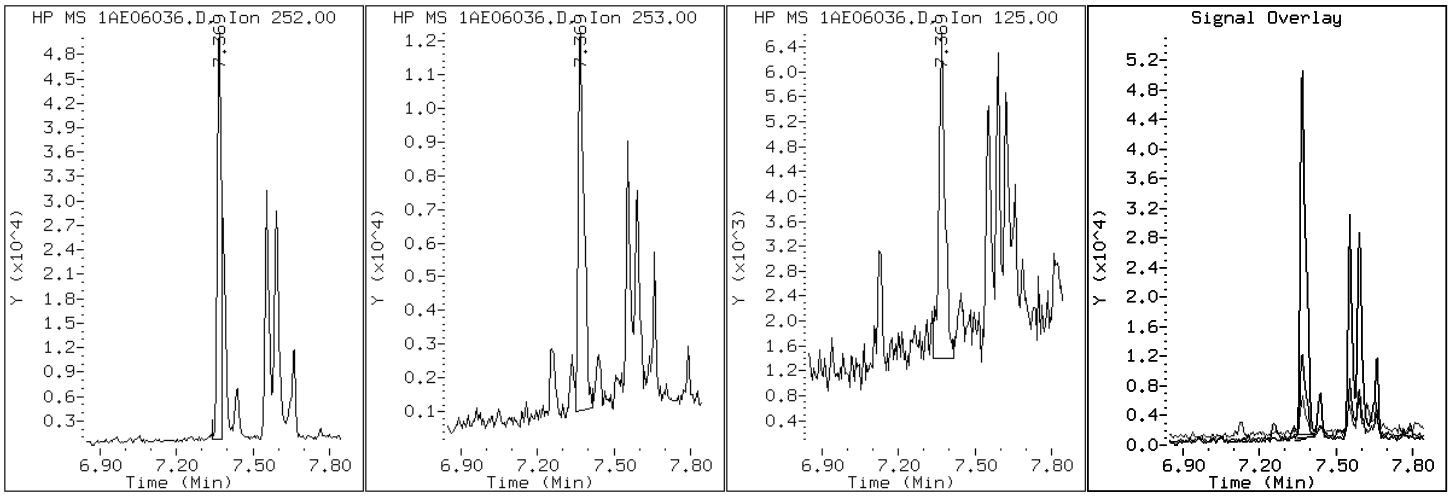
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

20 Benzo(b)fluoranthene



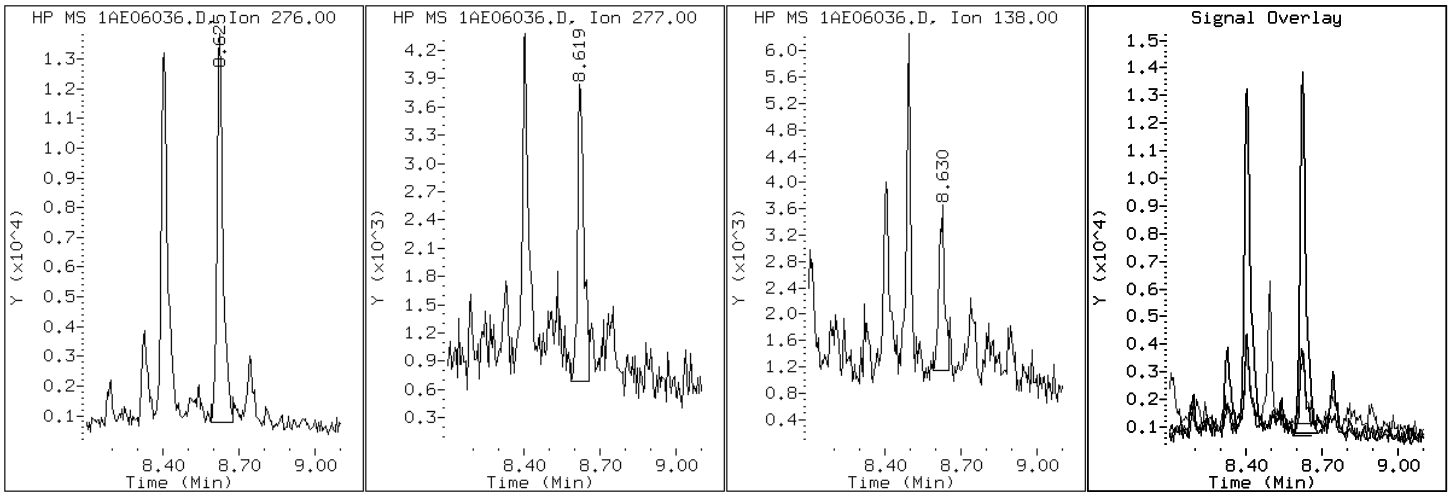
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

26 Benzo(g,h,i)perylene



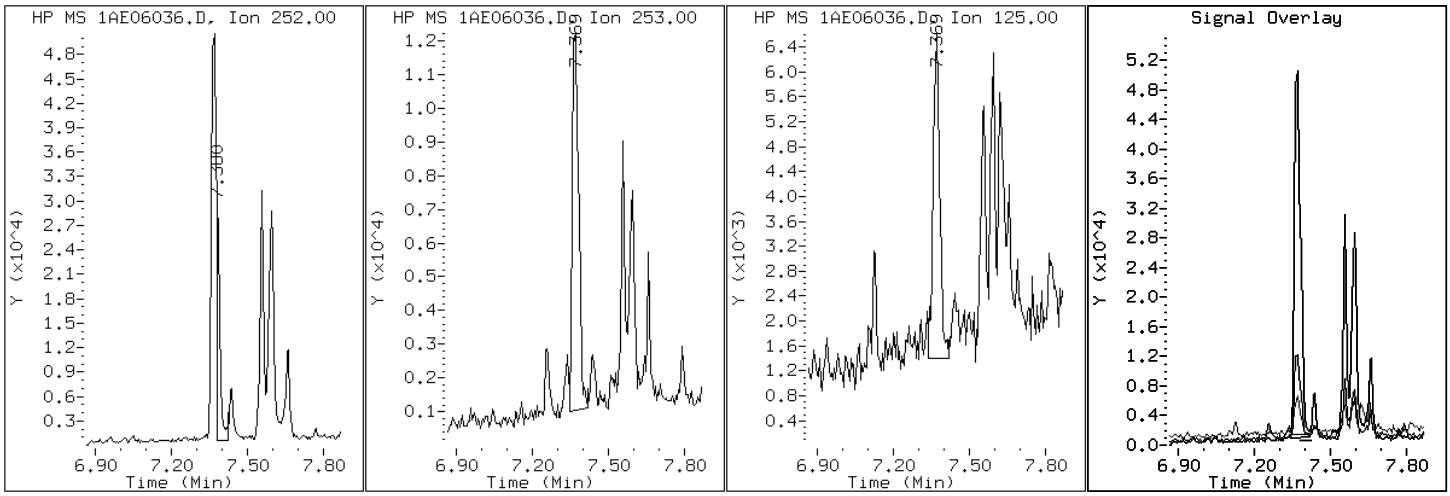
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

21 Benzo(k)fluoranthene



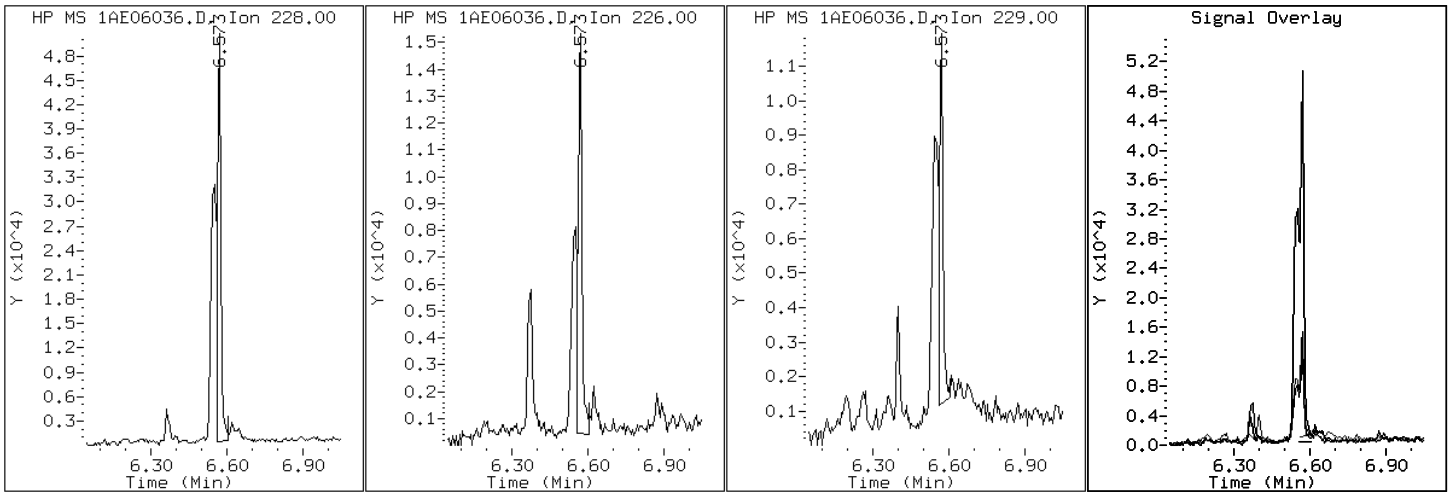
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

19 Chrysene



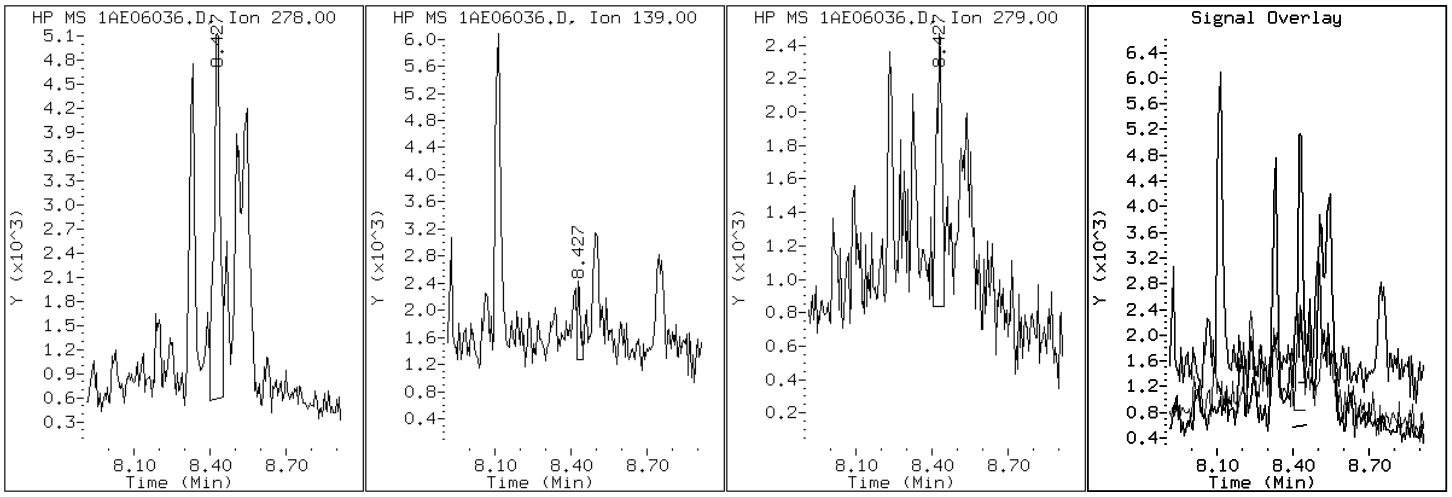
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

25 Dibenzo(a,h)anthracene



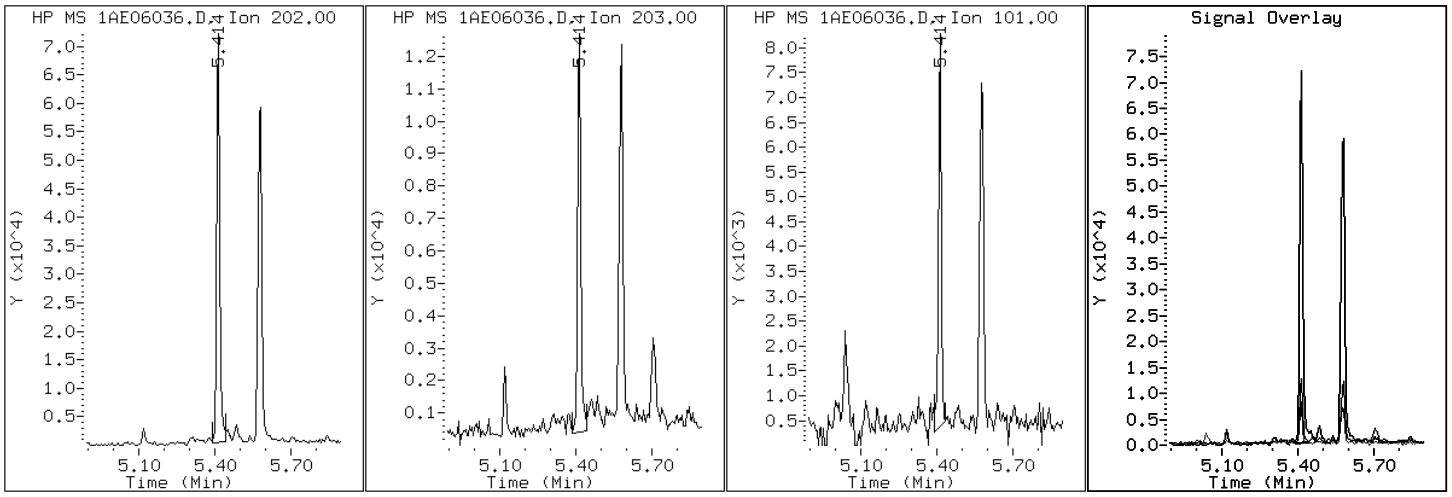
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

15 Fluoranthene



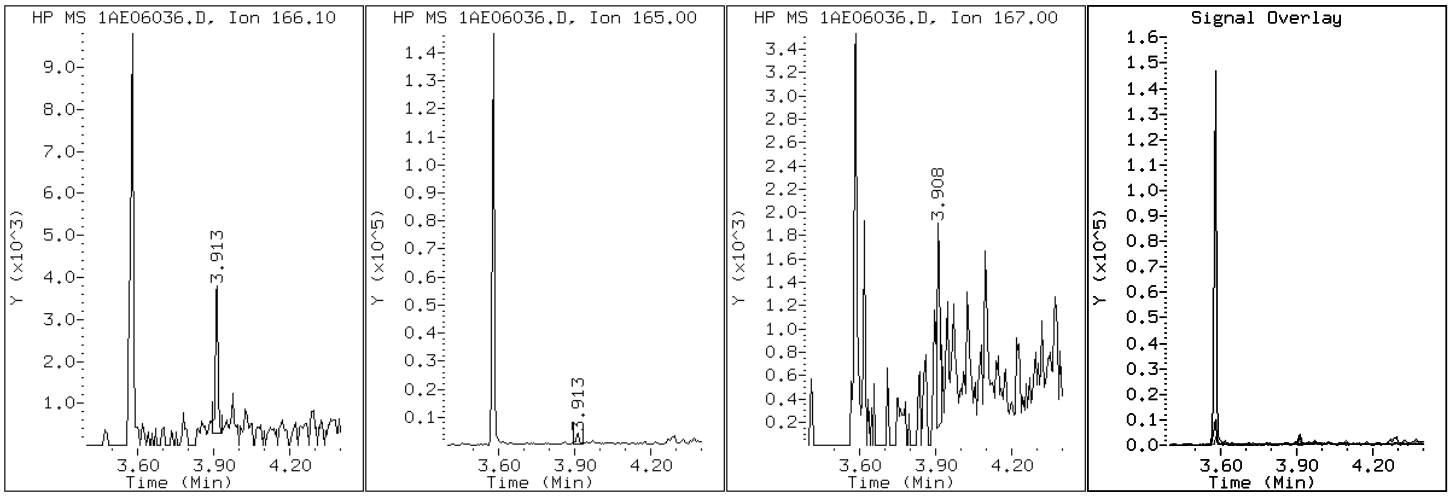
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

9 Fluorene



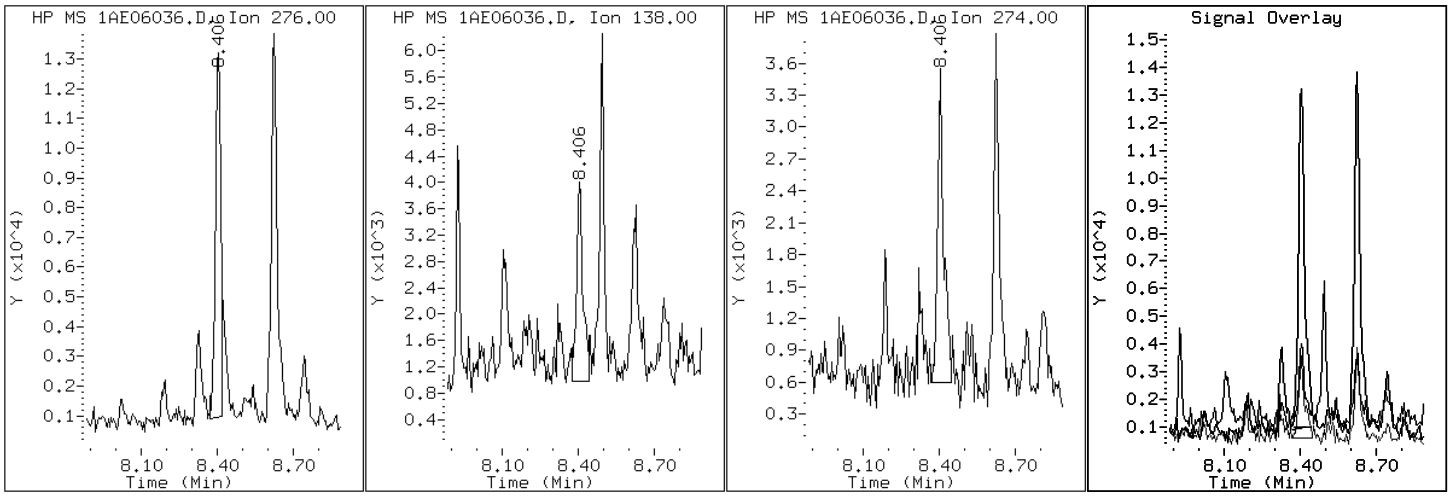
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

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



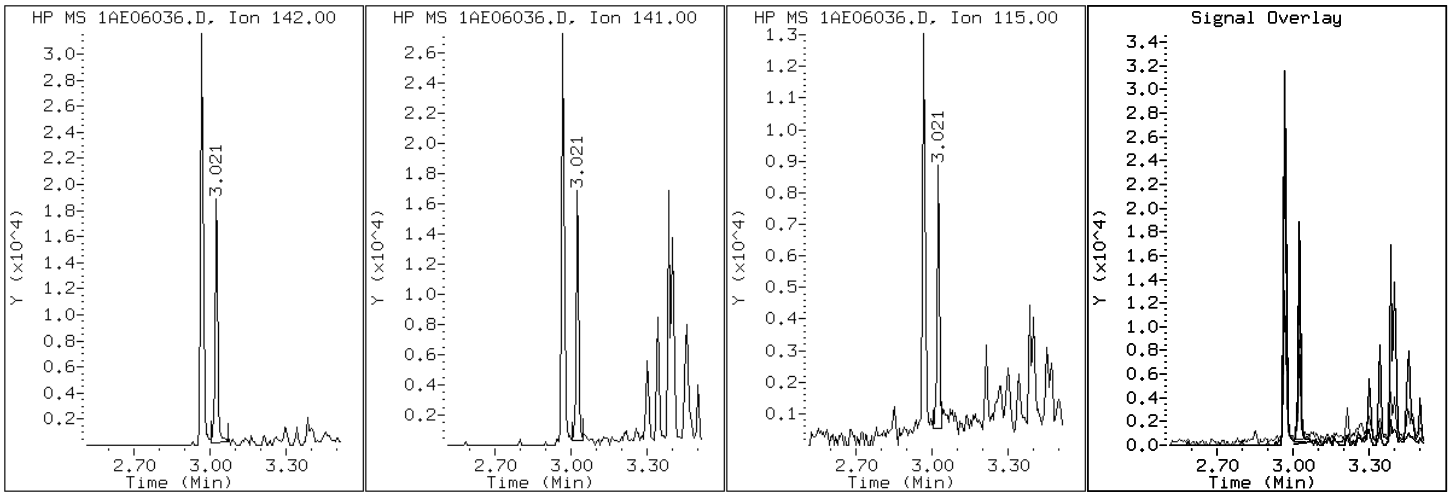
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

4 1-Methylnaphthalene



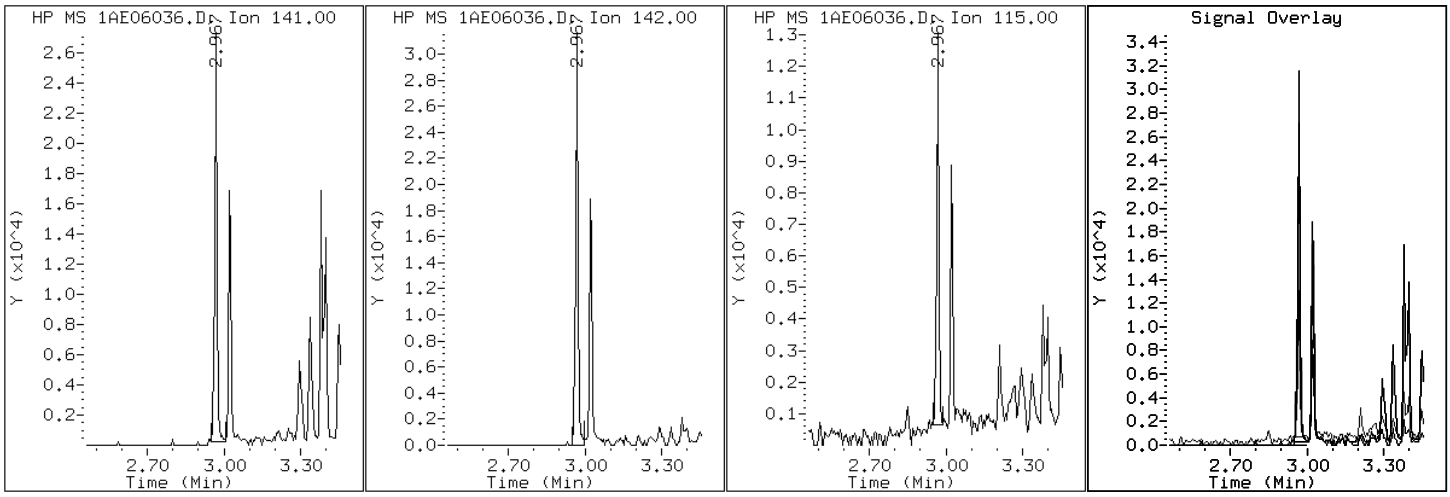
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

3 2-Methylnaphthalene



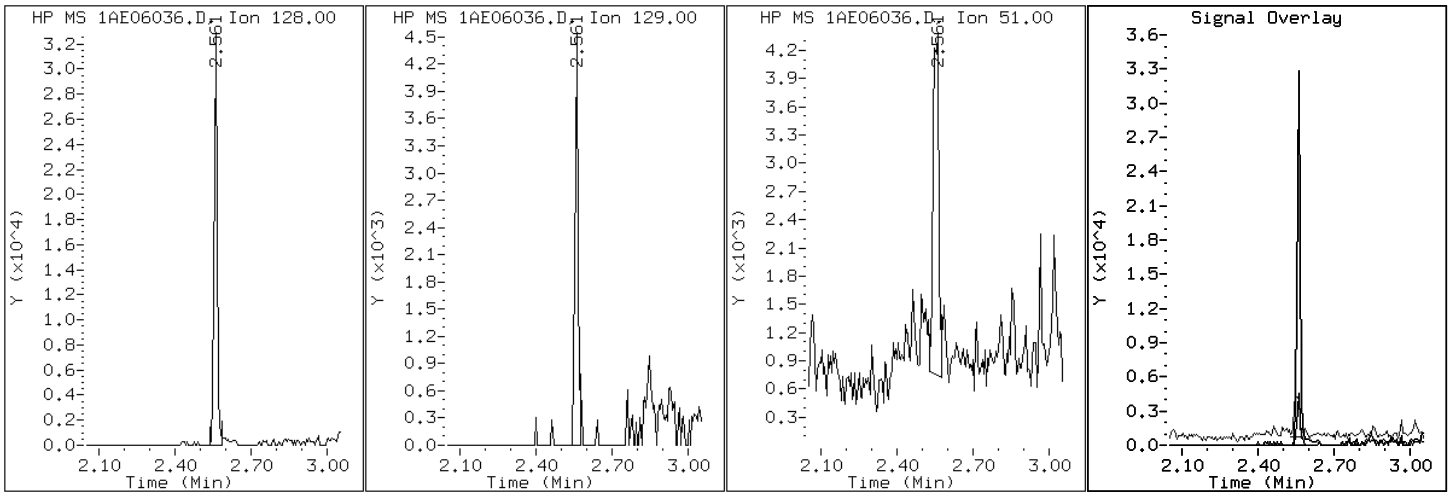
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

2 Naphthalene



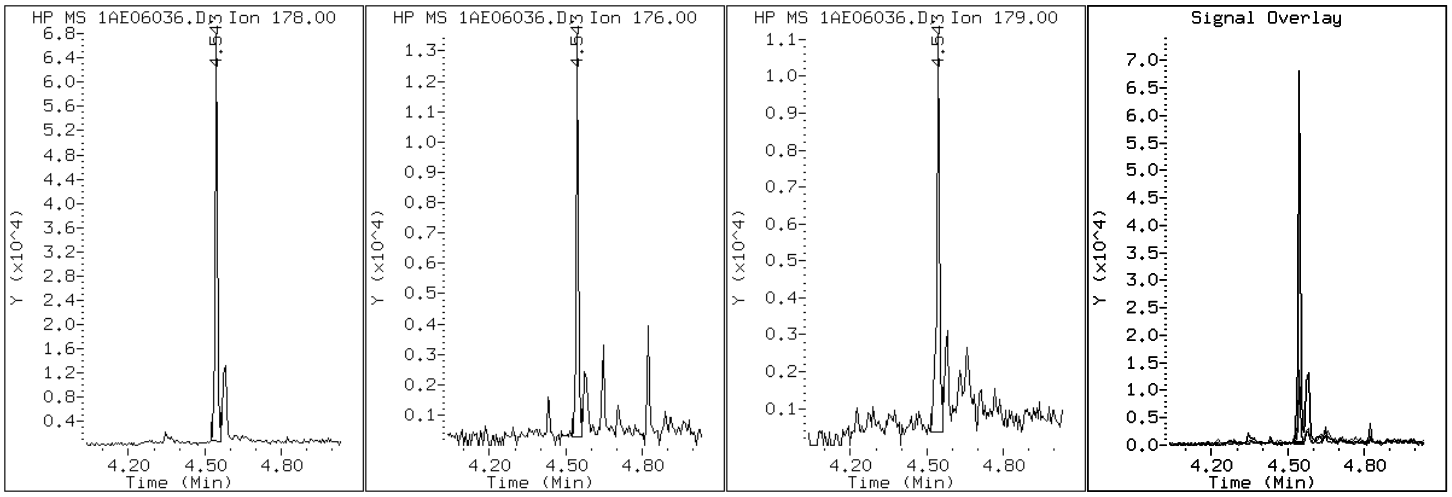
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

11 Phenanthrene



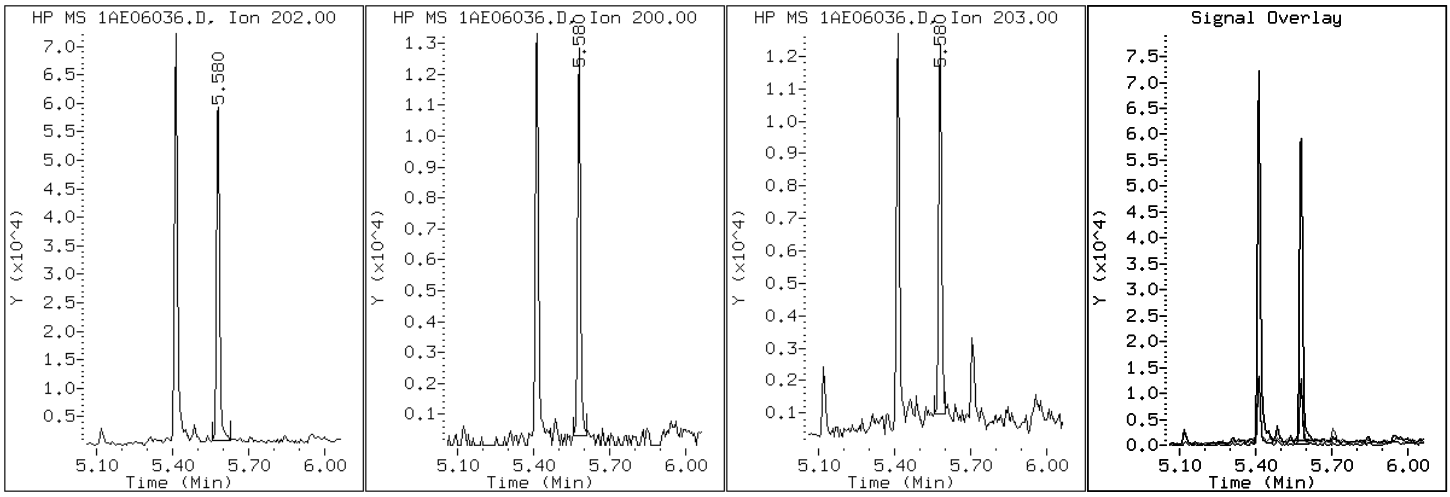
Data File: 1AE06036.D

Date: 06-MAY-2013 19:43

Client ID: CV0466A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-12-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06036.D
Inj. Date and Time: 06-MAY-2013 19:43
Instrument ID: BSMA5973.i
Client ID: CV0466A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

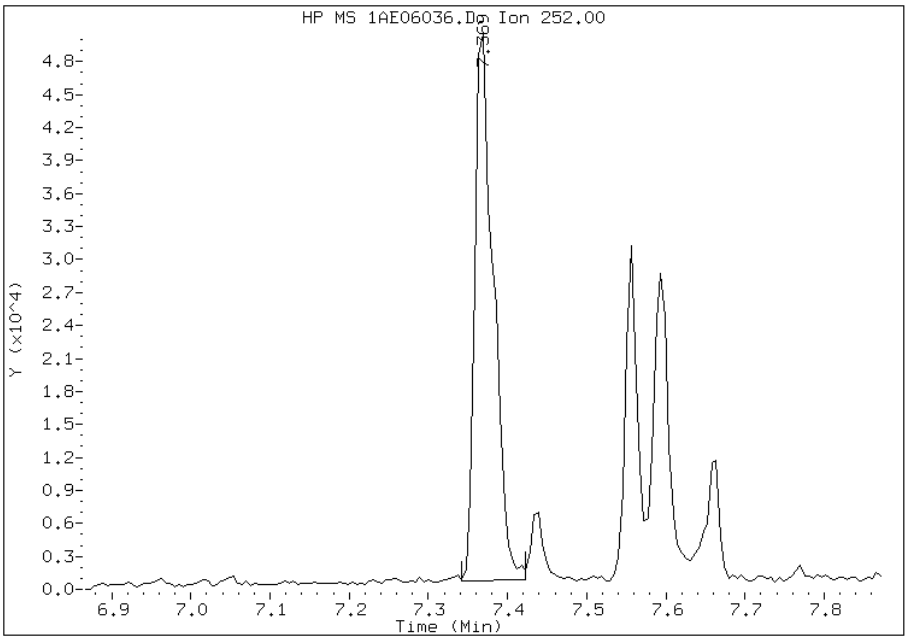
Processing Integration Results

RT: 7.37

Response: 80917

Amount: 3

Conc: 225



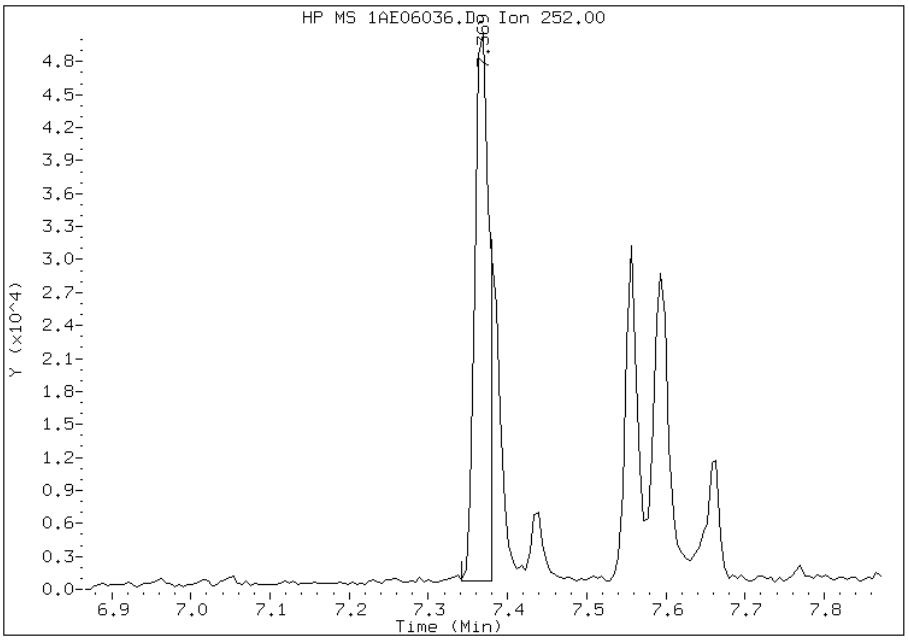
Manual Integration Results

RT: 7.37

Response: 63259

Amount: 2

Conc: 176



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:15
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06036.D
Inj. Date and Time: 06-MAY-2013 19:43
Instrument ID: BSMA5973.i
Client ID: CV0466A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

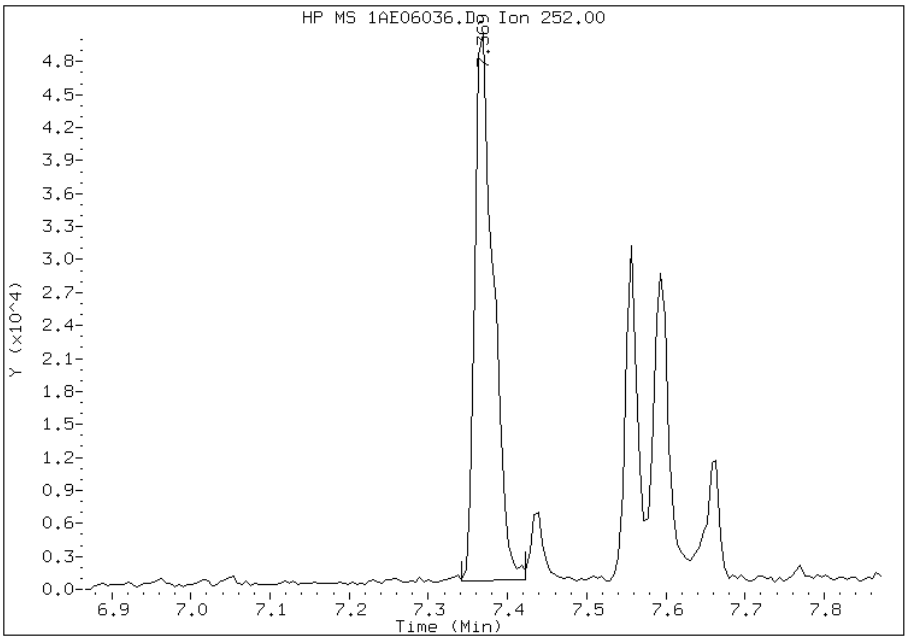
Processing Integration Results

RT: 7.37

Response: 80917

Amount: 2

Conc: 181



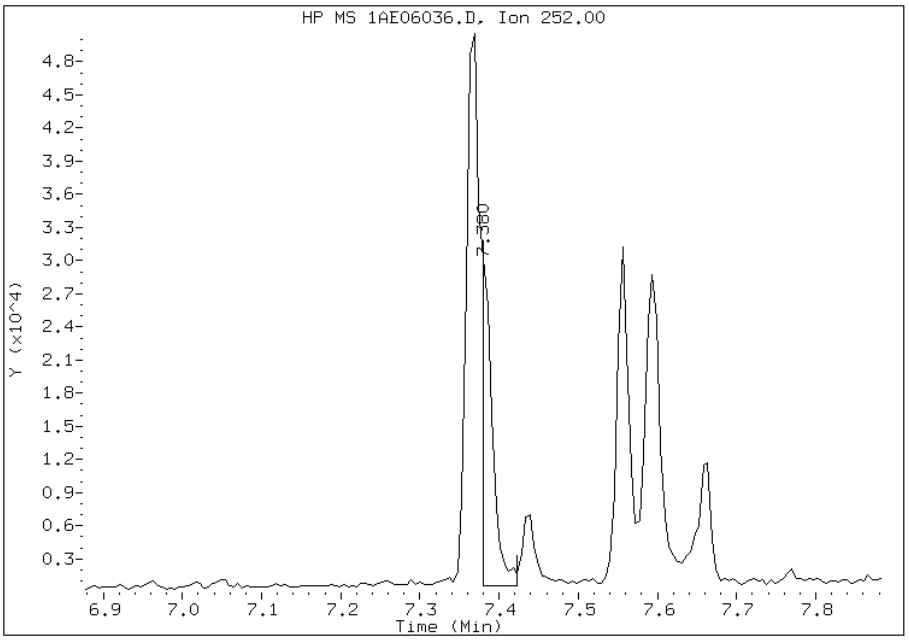
Manual Integration Results

RT: 7.38

Response: 27836

Amount: 1

Conc: 62



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06036.D
Inj. Date and Time: 06-MAY-2013 19:43
Instrument ID: BSMA5973.i
Client ID: CV0466A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

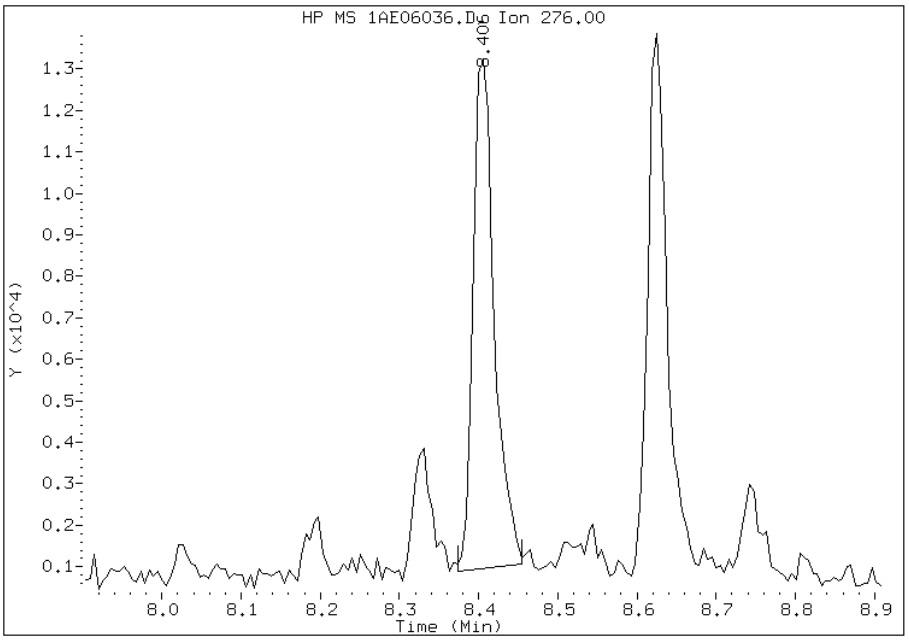
Processing Integration Results

RT: 8.41

Response: 22621

Amount: 1

Conc: 73



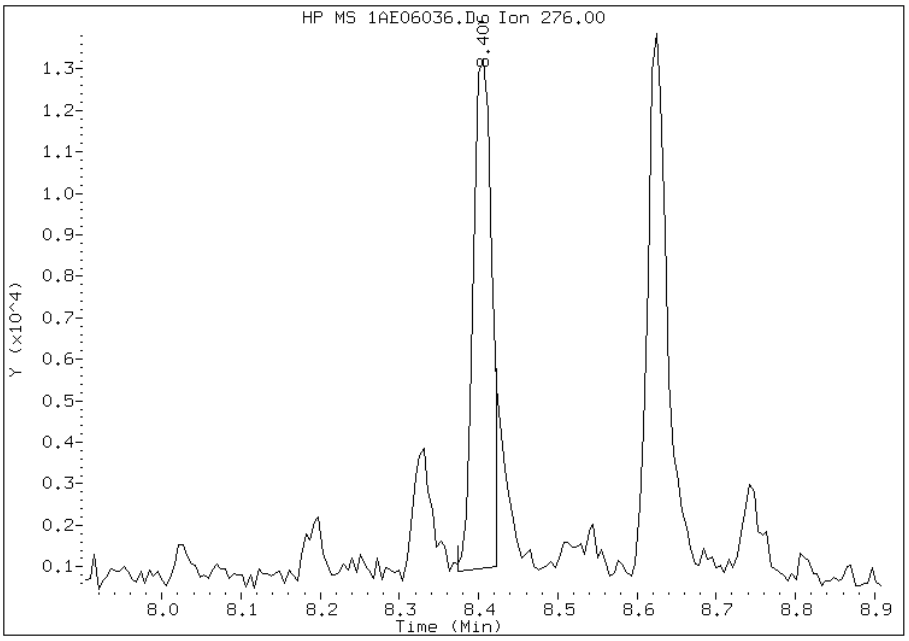
Manual Integration Results

RT: 8.41

Response: 19631

Amount: 1

Conc: 63



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0466B-CS-SP | Lab Sample ID: 680-89896-13

Matrix: Solid | Lab File ID: 1AE06037.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 14:20

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 14.98(g) | Date Analyzed: 05/06/2013 19:58

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

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

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	7.4	J	53	6.6
120-12-7	Anthracene	11		11	5.5
56-55-3	Benzo[a]anthracene	46		11	5.1
50-32-8	Benzo[a]pyrene	34		14	6.9
205-99-2	Benzo[b]fluoranthene	48		16	8.1
191-24-2	Benzo[g,h,i]perylene	21	J	26	5.8
207-08-9	Benzo[k]fluoranthene	26		11	4.8
218-01-9	Chrysene	47		12	5.9
53-70-3	Dibenz(a,h)anthracene	26	U	26	5.4
206-44-0	Fluoranthene	44		26	5.3
86-73-7	Fluorene	26	U	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	22	J	26	9.4
90-12-0	1-Methylnaphthalene	13	J	53	5.8
91-57-6	2-Methylnaphthalene	18	J	53	9.4
91-20-3	Naphthalene	28	J	53	5.8
85-01-8	Phenanthrene	39		11	5.1
129-00-0	Pyrene	39		26	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06037.D
Lab Smp Id: 680-89896-A-13-A Client Smp ID: CV0466B-CS-SP
Inj Date : 06-MAY-2013 19:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-13-a
Misc Info : 680-89896-A-13-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	24.138	% 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)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.548	2.544	(1.000)	1422394	40.0000	
*	6 Acenaphthene-d10	164	3.579	3.575	(1.000)	735183	40.0000	
*	10 Phenanthrene-d10	188	4.530	4.521	(1.000)	1115949	40.0000	
$	14 o-Terphenyl	230	4.829	4.820	(1.066)	77860	4.87488	428.9708
*	18 Chrysene-d12	240	6.560	6.535	(1.000)	1049659	40.0000	
*	23 Perylene-d12	264	7.650	7.630	(1.000)	1150838	40.0000	
	2 Naphthalene	128	2.559	2.555	(1.004)	10832	0.32338	28.4561
	3 2-Methylnaphthalene	141	2.970	2.961	(1.166)	3515	0.20648	18.1696
	4 1-Methylnaphthalene	142	3.024	3.014	(1.187)	2952	0.14468	12.7309
	5 Acenaphthylene	152	3.494	3.484	(0.976)	2922	0.08458	7.4430(Q)
	11 Phenanthrene	178	4.546	4.537	(1.004)	12326	0.44584	39.2321
	12 Anthracene	178	4.578	4.569	(1.011)	3721	0.12635	11.1182
	13 Carbazole	167	4.717	4.702	(1.041)	2358	0.08905	7.8361
	15 Fluoranthene	202	5.412	5.397	(1.195)	15914	0.50036	44.0296

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.577	5.562	(0.850)	15101	0.44757	39.3843
17 Benzo(a)anthracene	228	6.555	6.524	(0.999)	15411	0.52241	45.9698
19 Chrysene	228	6.571	6.551	(1.002)	17595	0.53010	46.6469
20 Benzo(b)fluoranthene	252	7.367	7.347	(0.963)	16539	0.54371	47.8446(M)
21 Benzo(k)fluoranthene	252	7.372	7.368	(0.964)	11142	0.29526	25.9812(M)
22 Benzo(a)pyrene	252	7.591	7.576	(0.992)	12030	0.38509	33.8861
24 Indeno(1,2,3-cd)pyrene	276	8.403	8.388	(1.098)	6686	0.25547	22.4807(M)
26 Benzo(g,h,i)perylene	276	8.622	8.602	(1.127)	6779	0.24088	21.1963(M)

QC Flag Legend

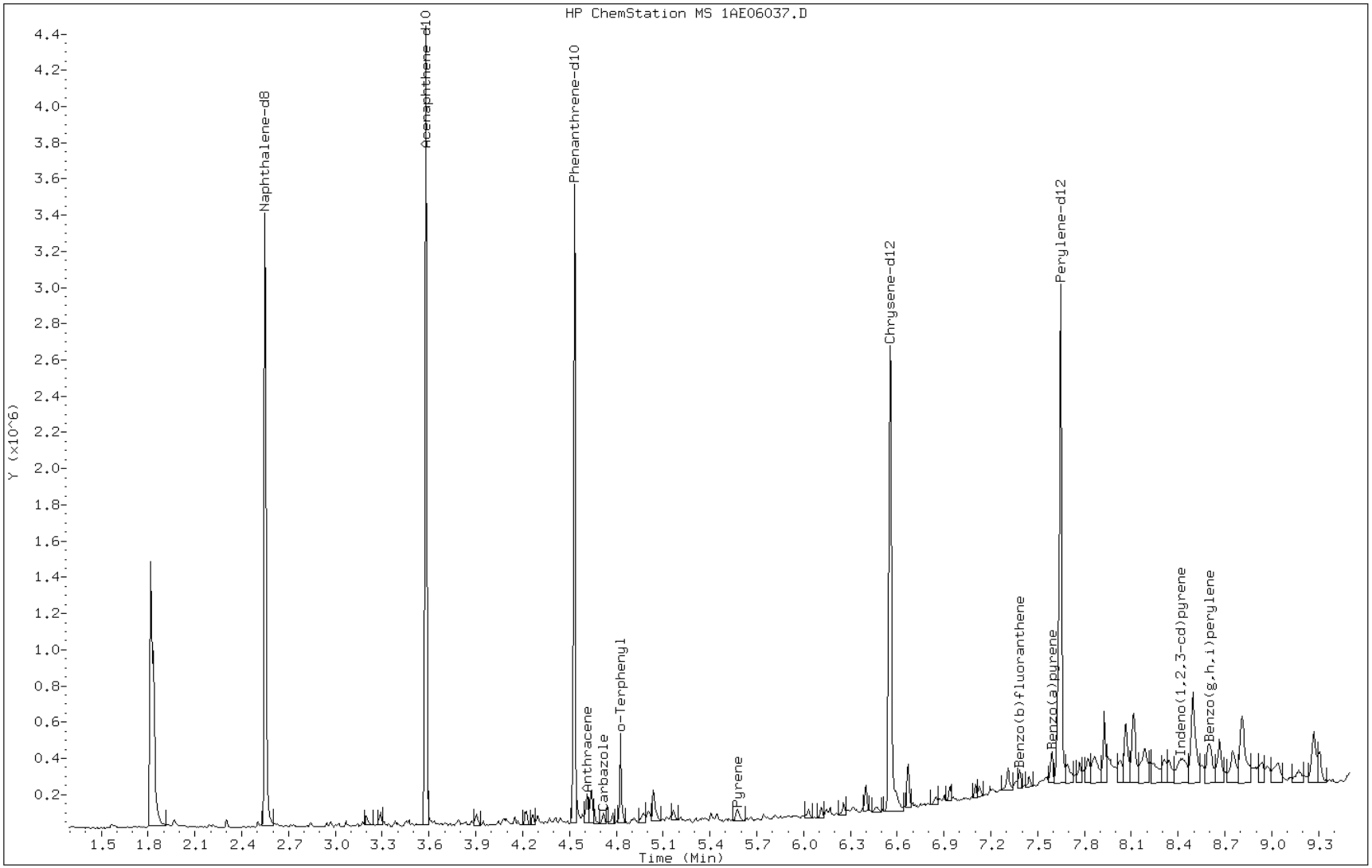
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC



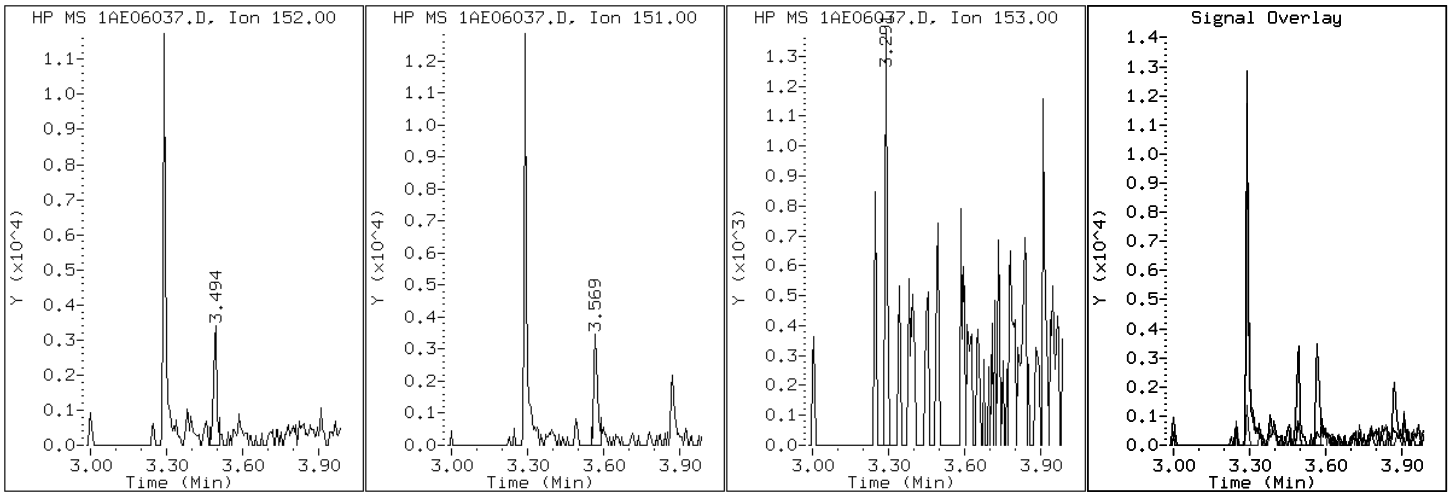
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

5 Acenaphthylene



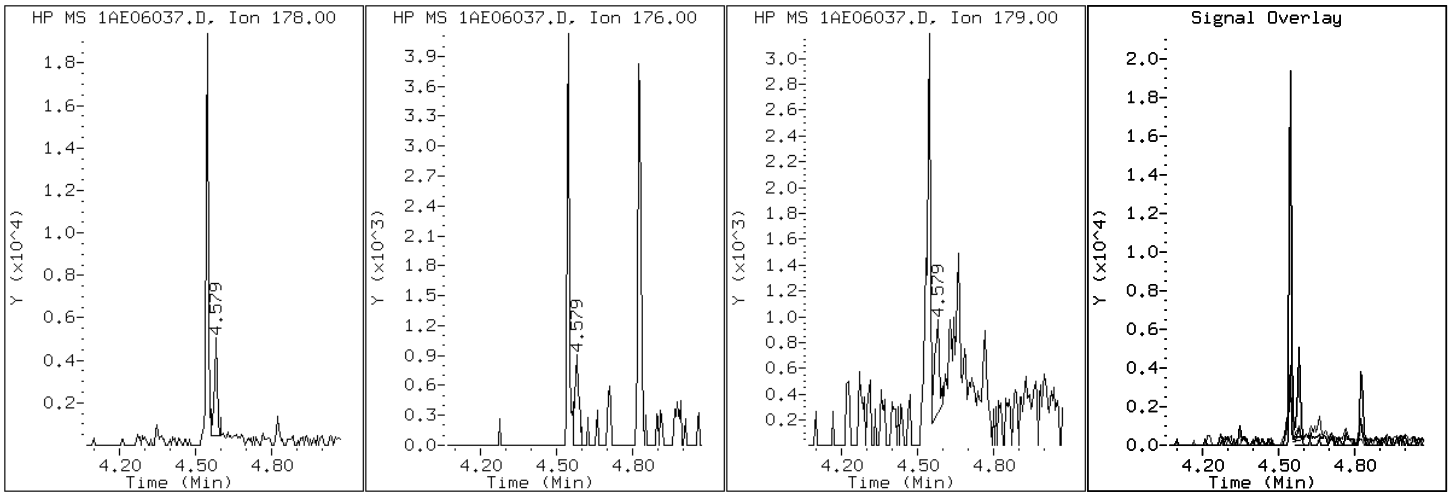
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

12 Anthracene



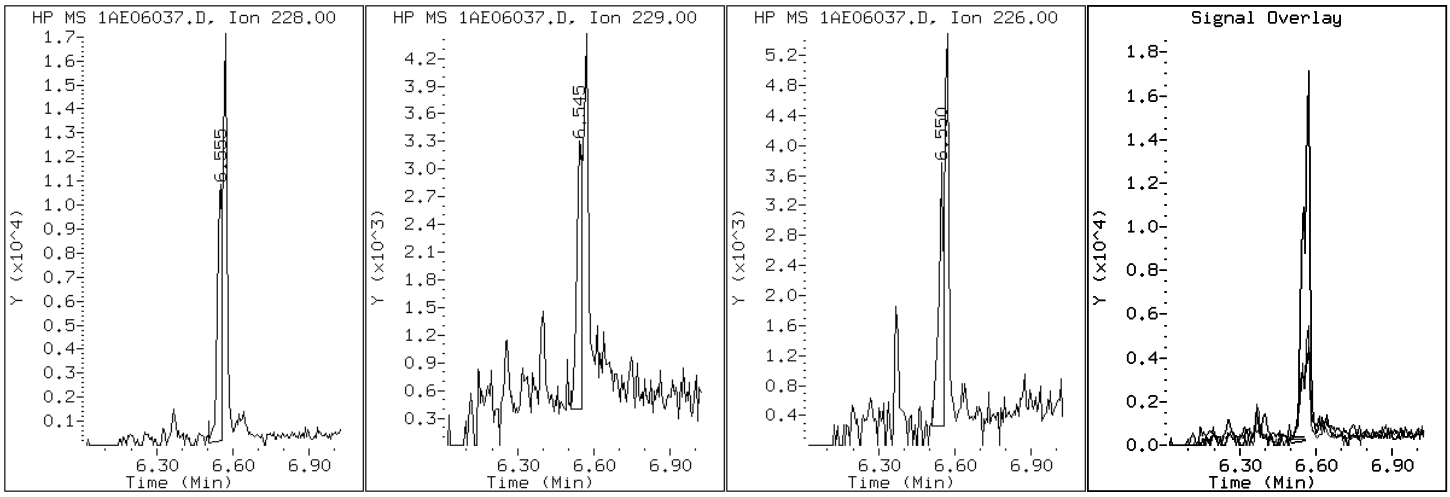
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

17 Benzo(a)anthracene



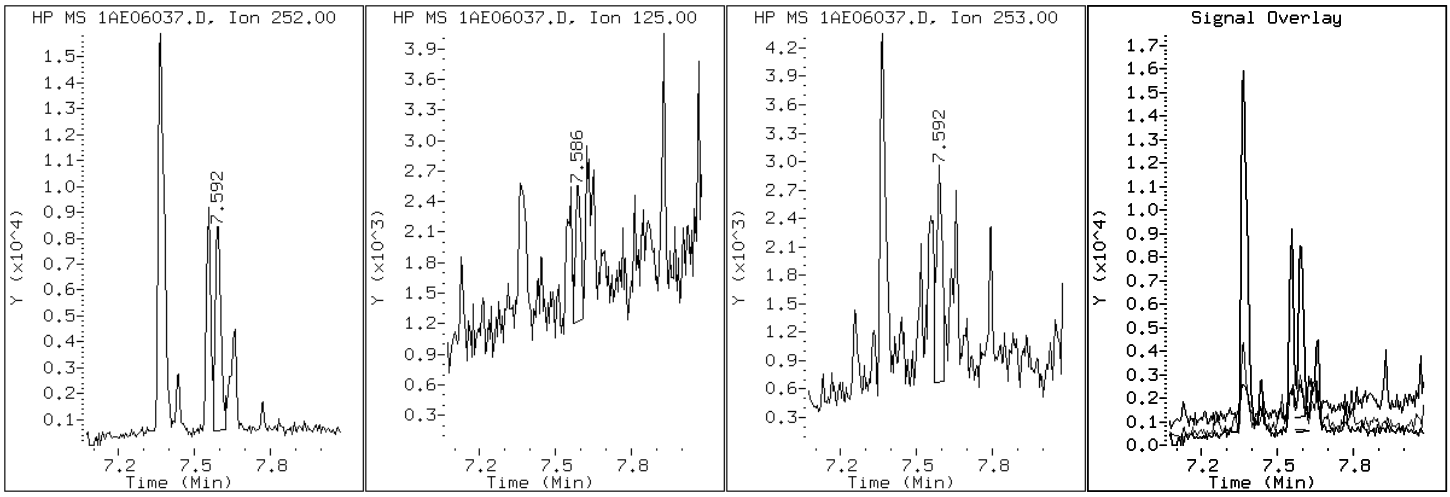
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

22 Benzo(a)pyrene



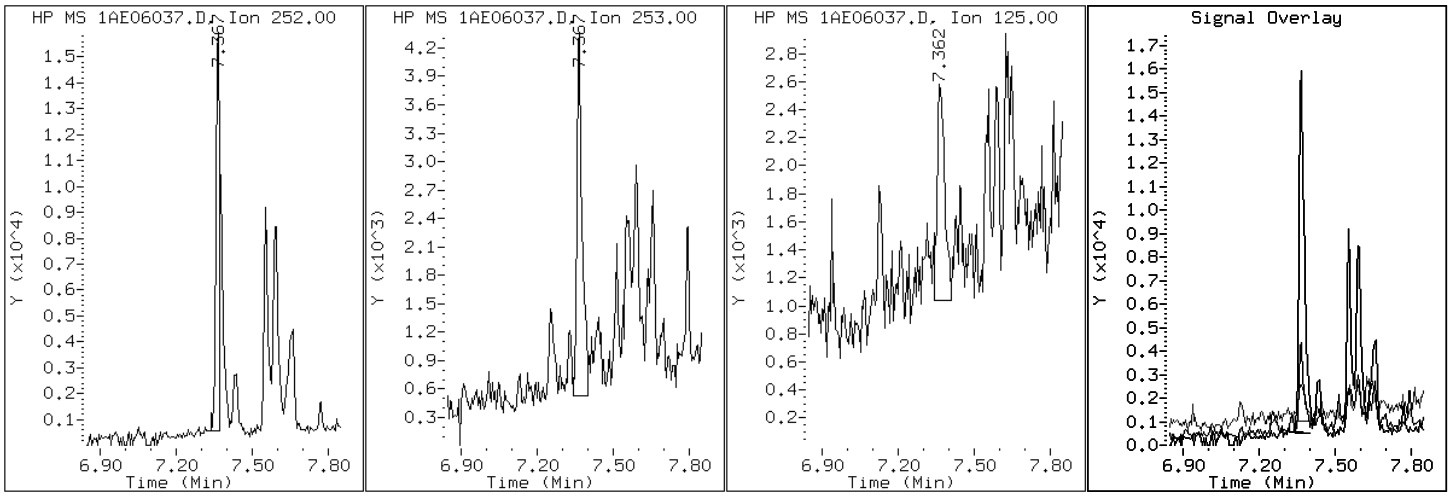
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

20 Benzo(b)fluoranthene



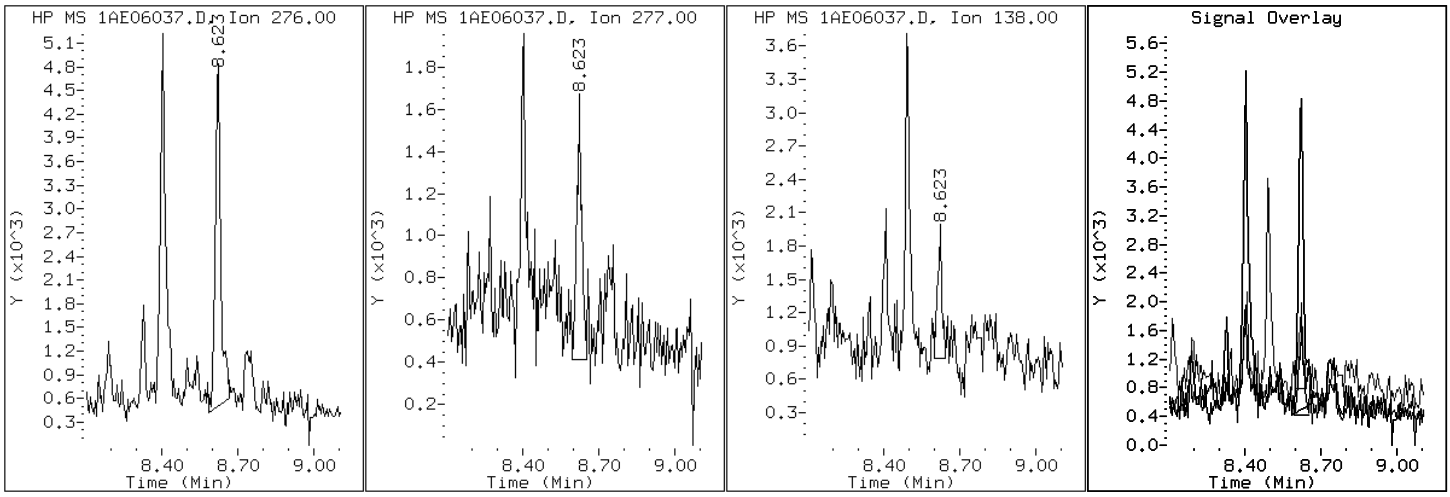
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

26 Benzo(g,h,i)perylene



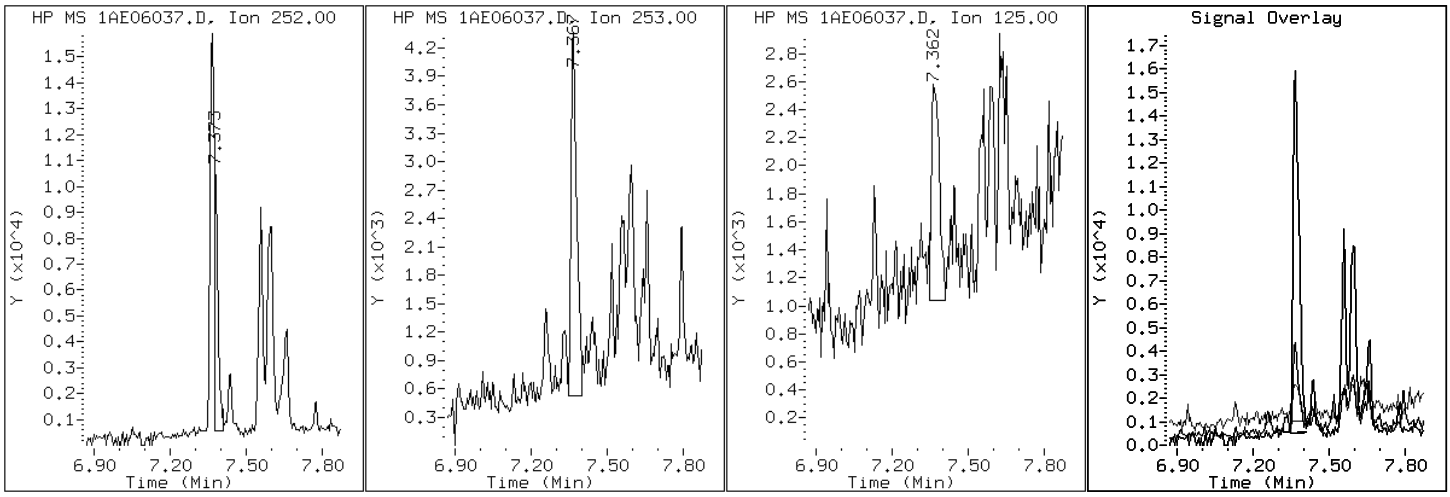
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

21 Benzo(k)fluoranthene



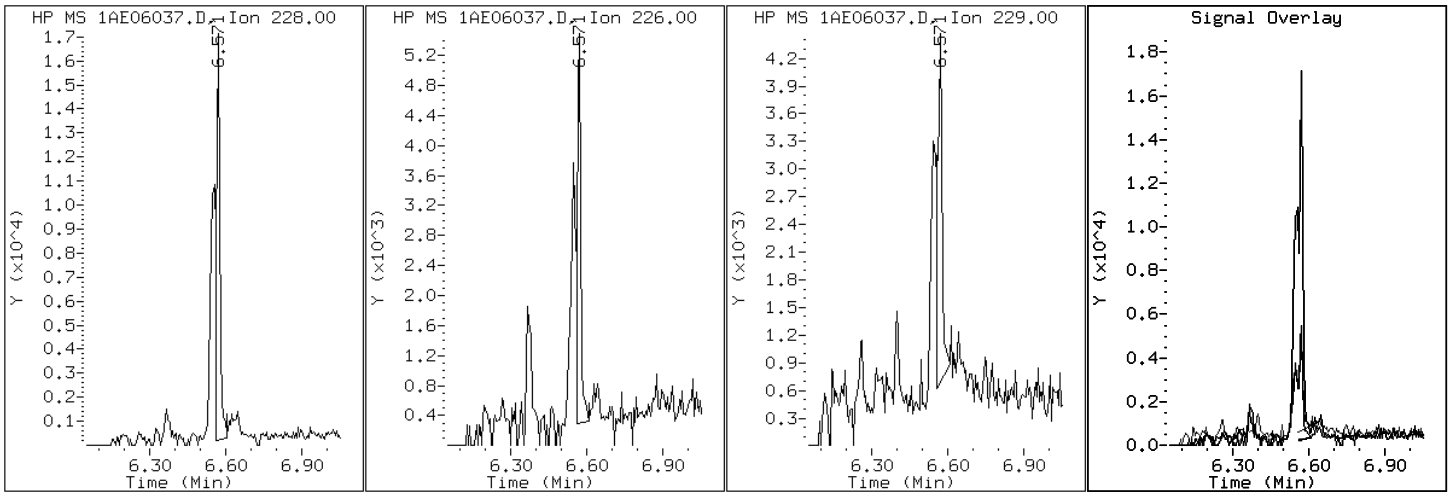
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

19 Chrysene



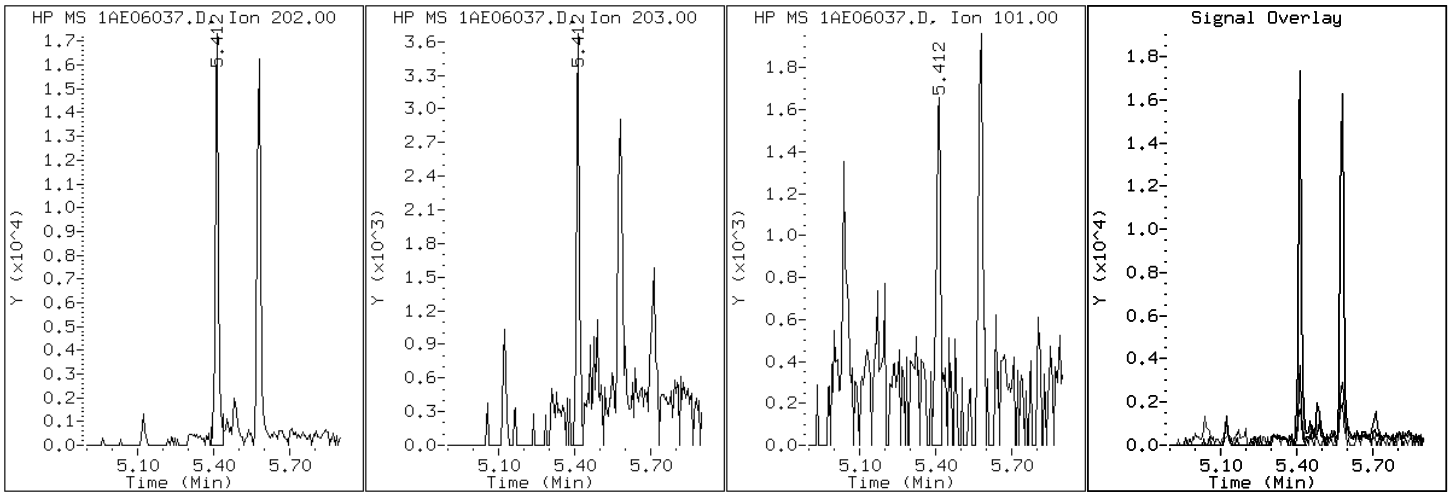
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

15 Fluoranthene



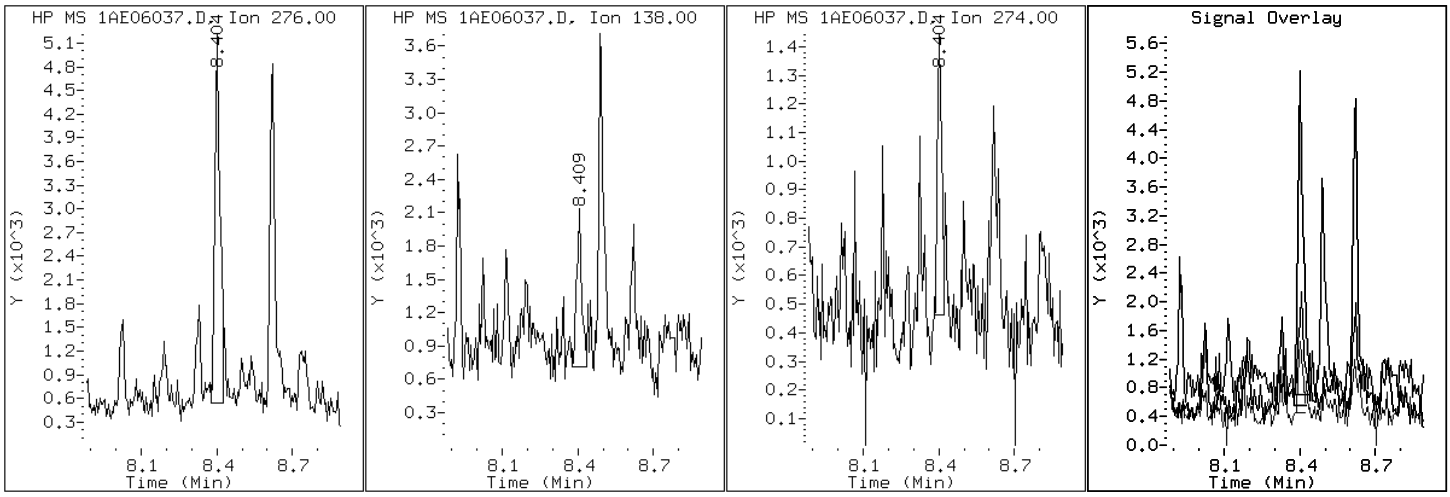
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

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



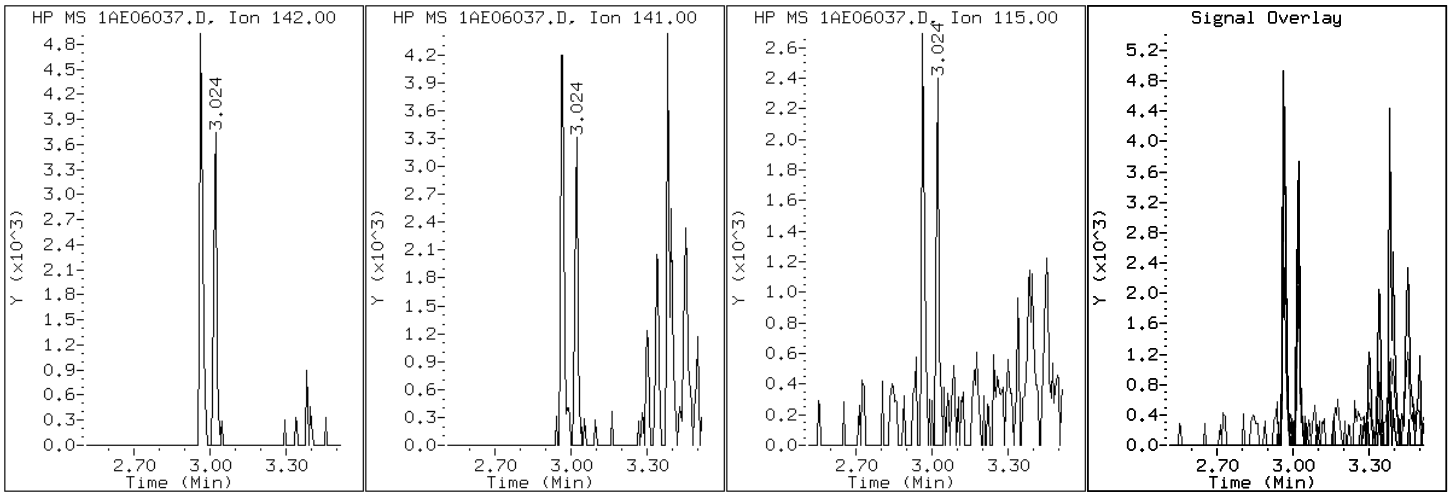
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

4 1-Methylnaphthalene



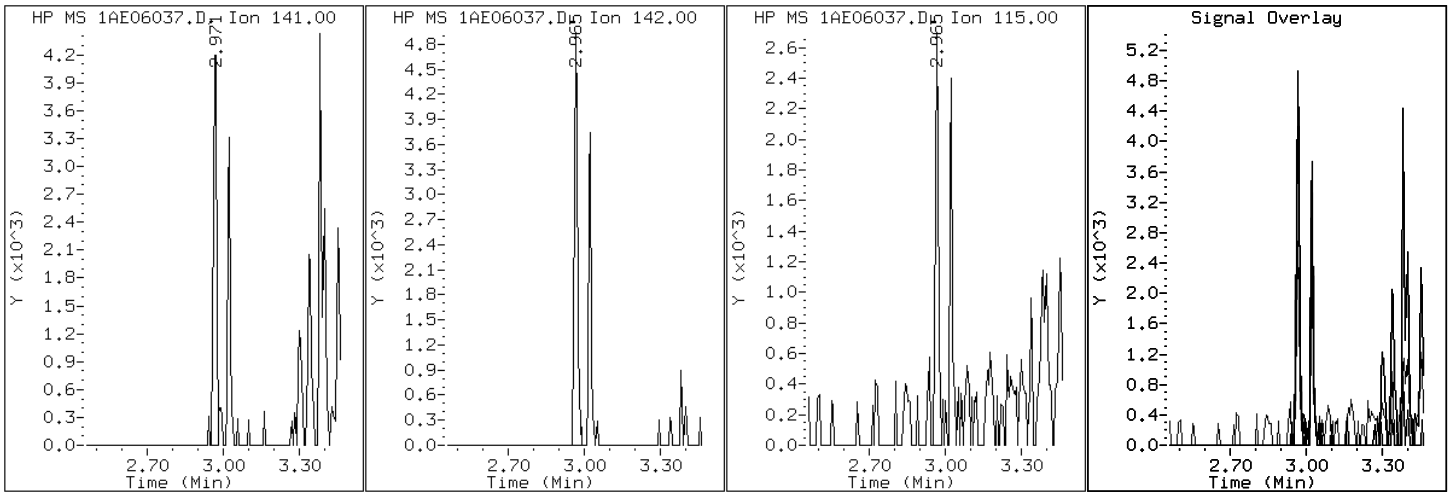
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

3 2-Methylnaphthalene



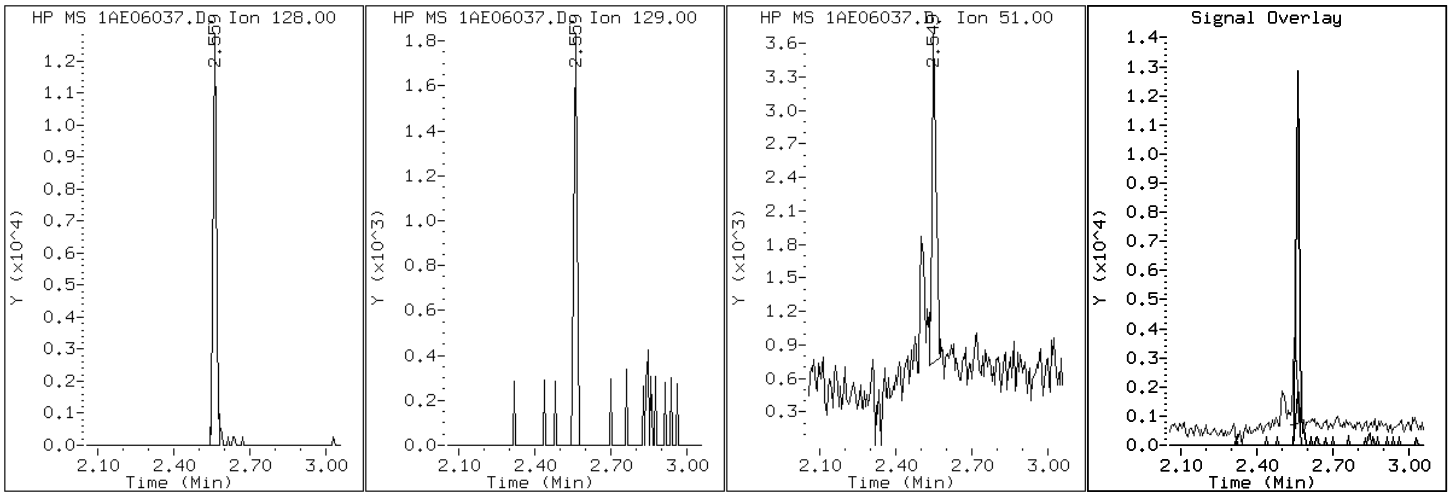
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

2 Naphthalene



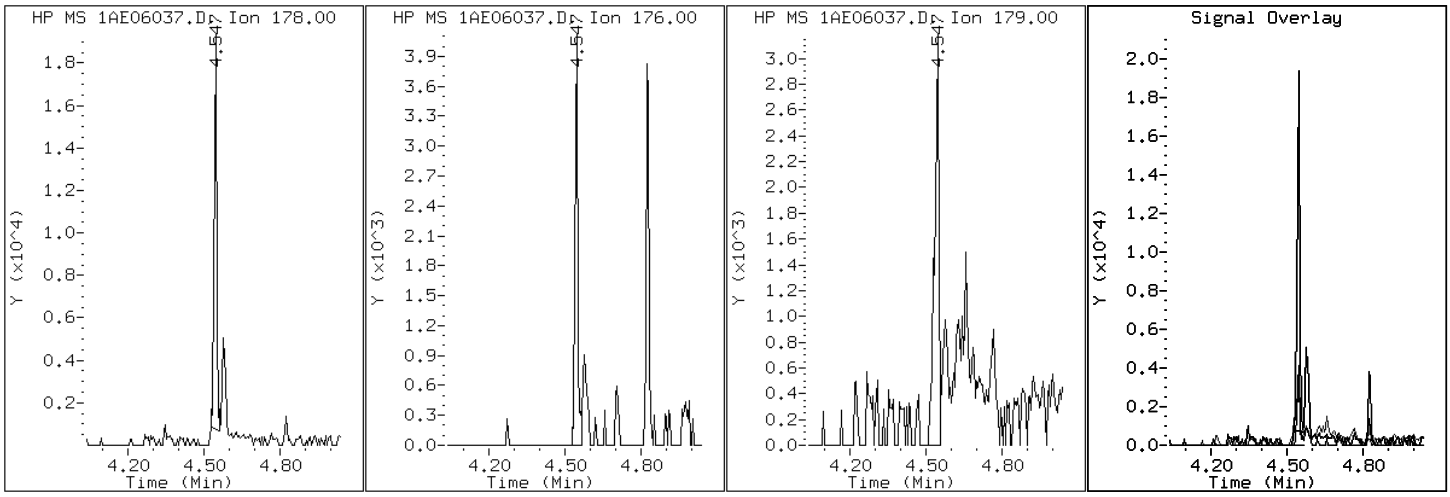
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

11 Phenanthrene



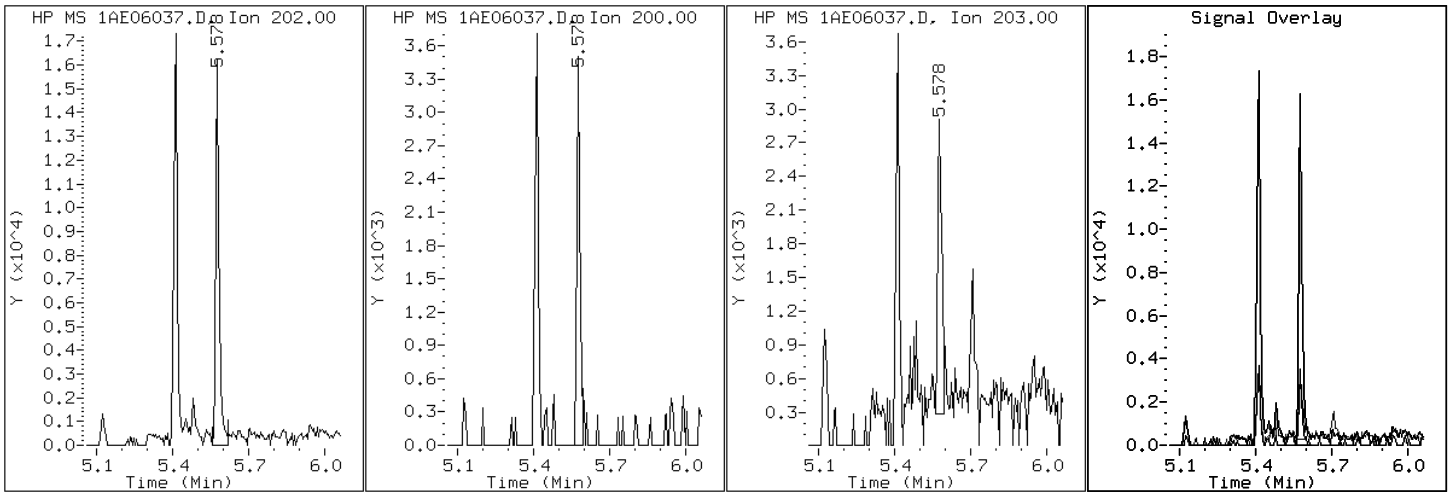
Data File: 1AE06037.D

Date: 06-MAY-2013 19:58

Client ID: CV0466B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-13-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06037.D
Inj. Date and Time: 06-MAY-2013 19:58
Instrument ID: BSMA5973.i
Client ID: CV0466B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

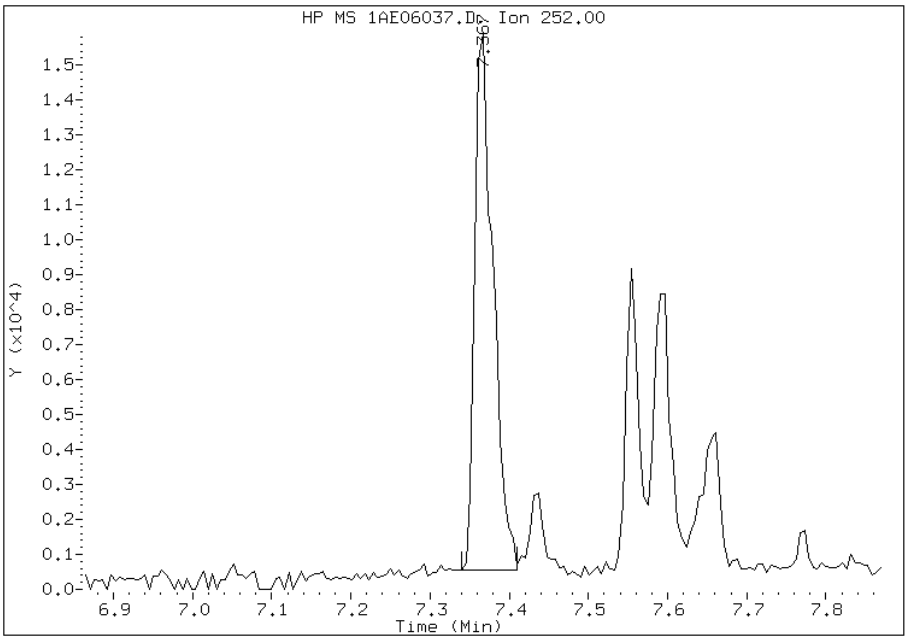
Processing Integration Results

RT: 7.37

Response: 24484

Amount: 1

Conc: 71



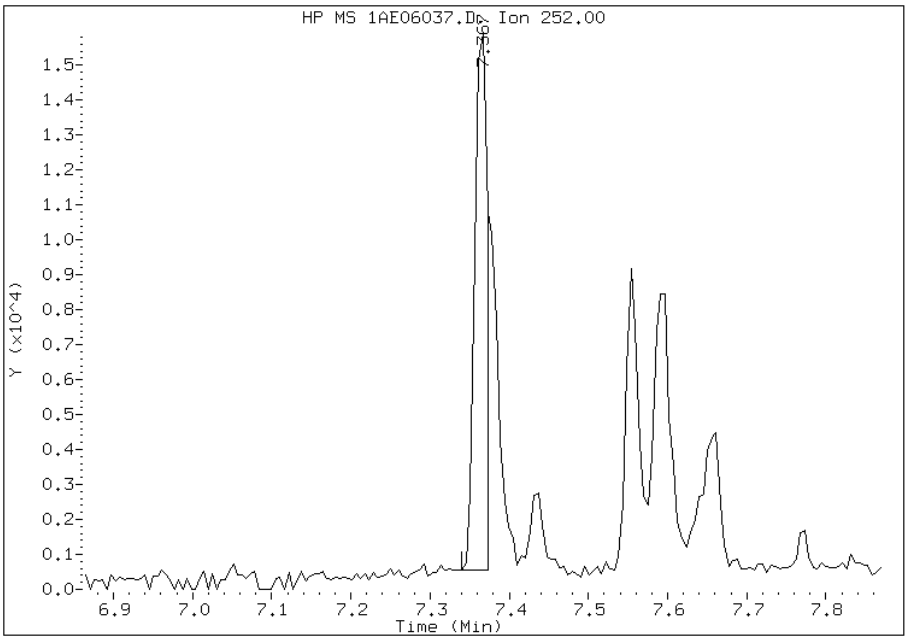
Manual Integration Results

RT: 7.37

Response: 16539

Amount: 1

Conc: 48



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06037.D
Inj. Date and Time: 06-MAY-2013 19:58
Instrument ID: BSMA5973.i
Client ID: CV0466B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

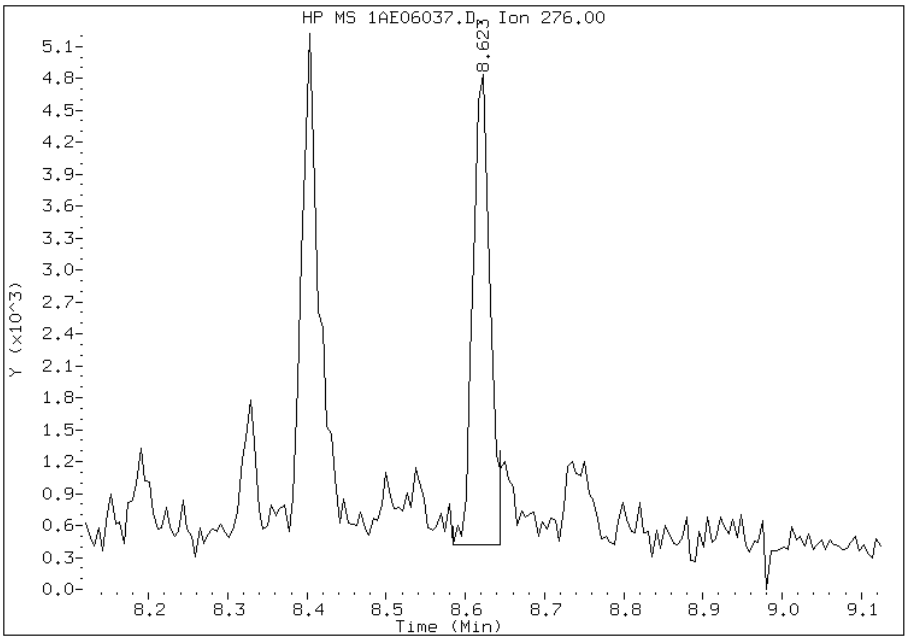
Processing Integration Results

RT: 8.62

Response: 6559

Amount: 0

Conc: 21



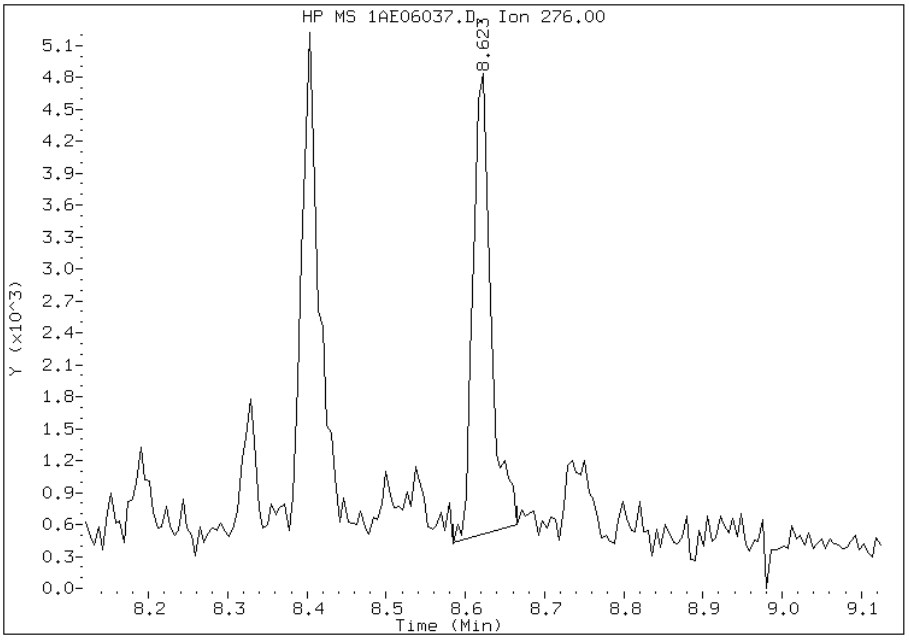
Manual Integration Results

RT: 8.62

Response: 6779

Amount: 0

Conc: 21



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06037.D
Inj. Date and Time: 06-MAY-2013 19:58
Instrument ID: BSMA5973.i
Client ID: CV0466B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

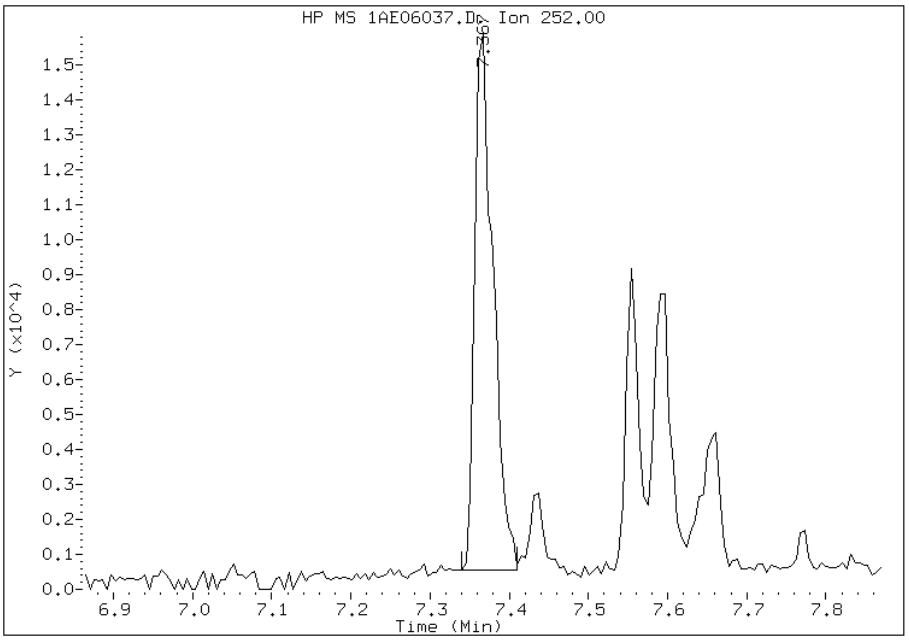
Processing Integration Results

RT: 7.37

Response: 24484

Amount: 1

Conc: 57



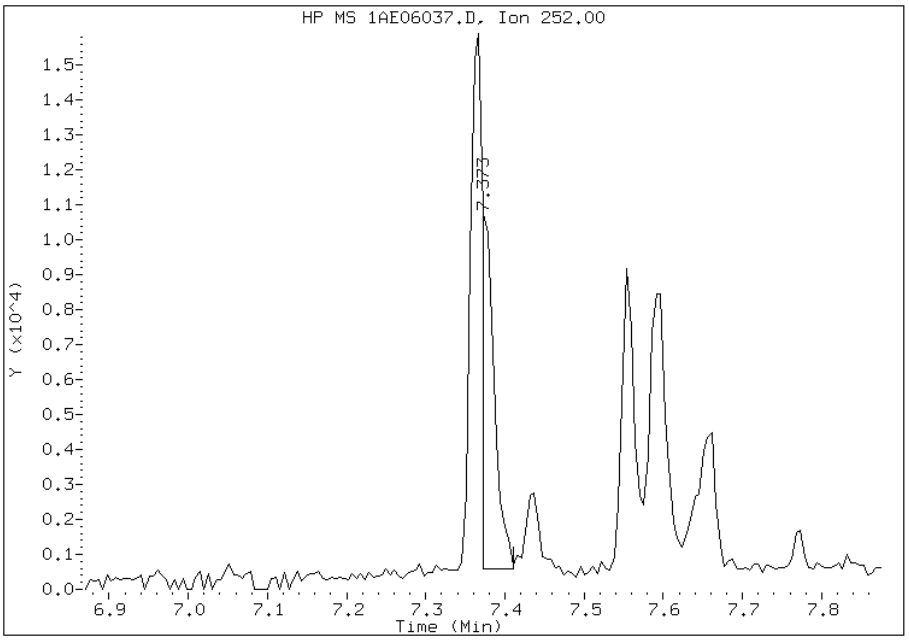
Manual Integration Results

RT: 7.37

Response: 11142

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06037.D
Inj. Date and Time: 06-MAY-2013 19:58
Instrument ID: BSMA5973.i
Client ID: CV0466B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

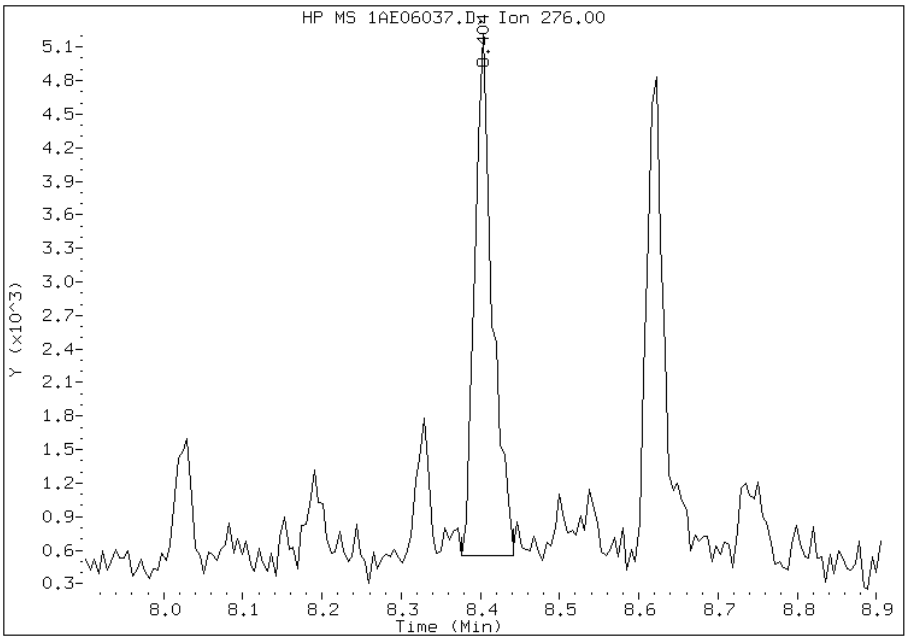
Processing Integration Results

RT: 8.40

Response: 7161

Amount: 0

Conc: 24



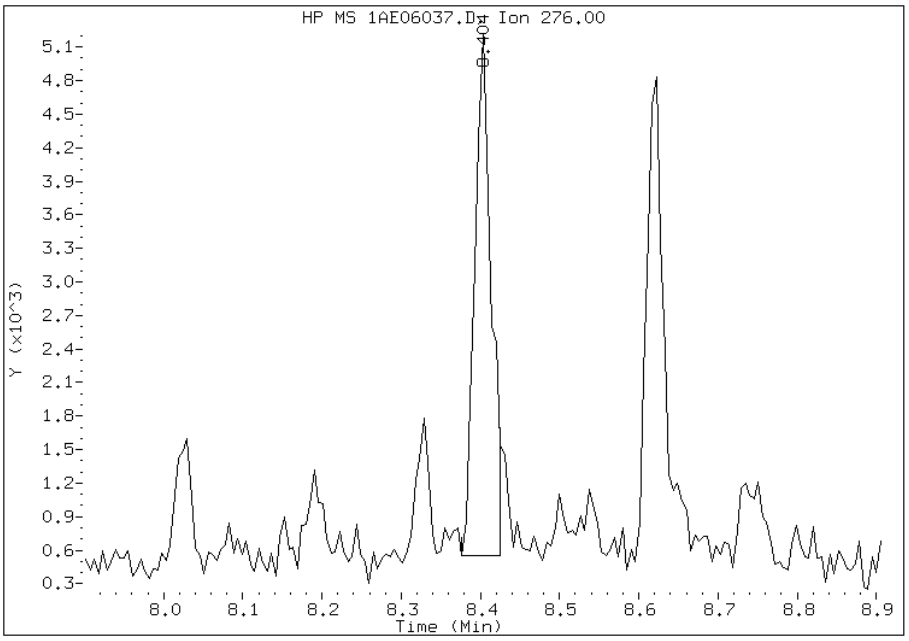
Manual Integration Results

RT: 8.40

Response: 6686

Amount: 0

Conc: 22



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0963A-CS-SP | Lab Sample ID: 680-89896-14

Matrix: Solid | Lab File ID: 1AE06038.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 12:40

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 15.06(g) | Date Analyzed: 05/06/2013 20:12

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

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

% Moisture: 21.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	48	J	130	26
208-96-8	Acenaphthylene	15	J	51	6.4
120-12-7	Anthracene	150		11	5.4
56-55-3	Benzo[a]anthracene	330		10	5.0
50-32-8	Benzo[a]pyrene	230		13	6.6
205-99-2	Benzo[b]fluoranthene	330		16	7.8
191-24-2	Benzo[g,h,i]perylene	120		26	5.6
207-08-9	Benzo[k]fluoranthene	130		10	4.6
218-01-9	Chrysene	290		11	5.7
53-70-3	Dibenz(a,h)anthracene	38		26	5.2
206-44-0	Fluoranthene	550		26	5.1
86-73-7	Fluorene	51		26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	120		26	9.1
90-12-0	1-Methylnaphthalene	78		51	5.6
91-57-6	2-Methylnaphthalene	100		51	9.1
91-20-3	Naphthalene	66		51	5.6
85-01-8	Phenanthrene	560		10	5.0
129-00-0	Pyrene	430		26	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	48		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06038.D
Lab Smp Id: 680-89896-A-14-A Client Smp ID: CV0963A-CS-SP
Inj Date : 06-MAY-2013 20:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-14-a
Misc Info : 680-89896-A-14-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 38
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	15.060	Weight Extracted
M	21.903	% 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)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.550	2.544	(1.000)	1412902	40.0000	
*	6 Acenaphthene-d10	164	3.581	3.575	(1.000)	719898	40.0000	
*	10 Phenanthrene-d10	188	4.532	4.521	(1.000)	1035828	40.0000	
$	14 o-Terphenyl	230	4.826	4.820	(1.065)	70737	4.77148	405.6877
*	18 Chrysene-d12	240	6.557	6.535	(1.000)	1075327	40.0000	
*	23 Perylene-d12	264	7.652	7.630	(1.000)	1204179	40.0000	
	2 Naphthalene	128	2.561	2.555	(1.004)	26010	0.78172	66.4647
	3 2-Methylnaphthalene	141	2.967	2.961	(1.163)	19902	1.17696	100.0692
	4 1-Methylnaphthalene	142	3.021	3.014	(1.184)	18588	0.91711	77.9755
	5 Acenaphthylene	152	3.491	3.484	(0.975)	5812	0.17181	14.6082
	7 Acenaphthene	154	3.597	3.591	(1.004)	11043	0.56845	48.3318
	9 Fluorene	166	3.913	3.901	(1.092)	13218	0.59706	50.7640
	11 Phenanthrene	178	4.548	4.537	(1.004)	170269	6.63511	564.1403
	12 Anthracene	178	4.580	4.569	(1.011)	47493	1.73740	147.7193

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.714	4.702	(1.040)	14348	0.58377	49.6344
15 Fluoranthene	202	5.414	5.397	(1.194)	192050	6.50539	553.1110
16 Pyrene	202	5.579	5.562	(0.851)	173877	5.03042	427.7036
17 Benzo(a)anthracene	228	6.552	6.524	(0.999)	117086	3.87429	329.4050
19 Chrysene	228	6.573	6.551	(1.002)	116634	3.43007	291.6364
20 Benzo(b)fluoranthene	252	7.369	7.347	(0.963)	122823	3.85890	328.0972(M)
21 Benzo(k)fluoranthene	252	7.380	7.368	(0.964)	59064	1.49582	127.1800(M)
22 Benzo(a)pyrene	252	7.593	7.576	(0.992)	87959	2.69089	228.7888
24 Indeno(1,2,3-cd)pyrene	276	8.405	8.388	(1.098)	39015	1.42474	121.1362(M)
25 Dibenzo(a,h)anthracene	278	8.427	8.414	(1.101)	12622	0.44966	38.2315
26 Benzo(g,h,i)perylene	276	8.624	8.602	(1.127)	40529	1.37633	117.0201

QC Flag Legend

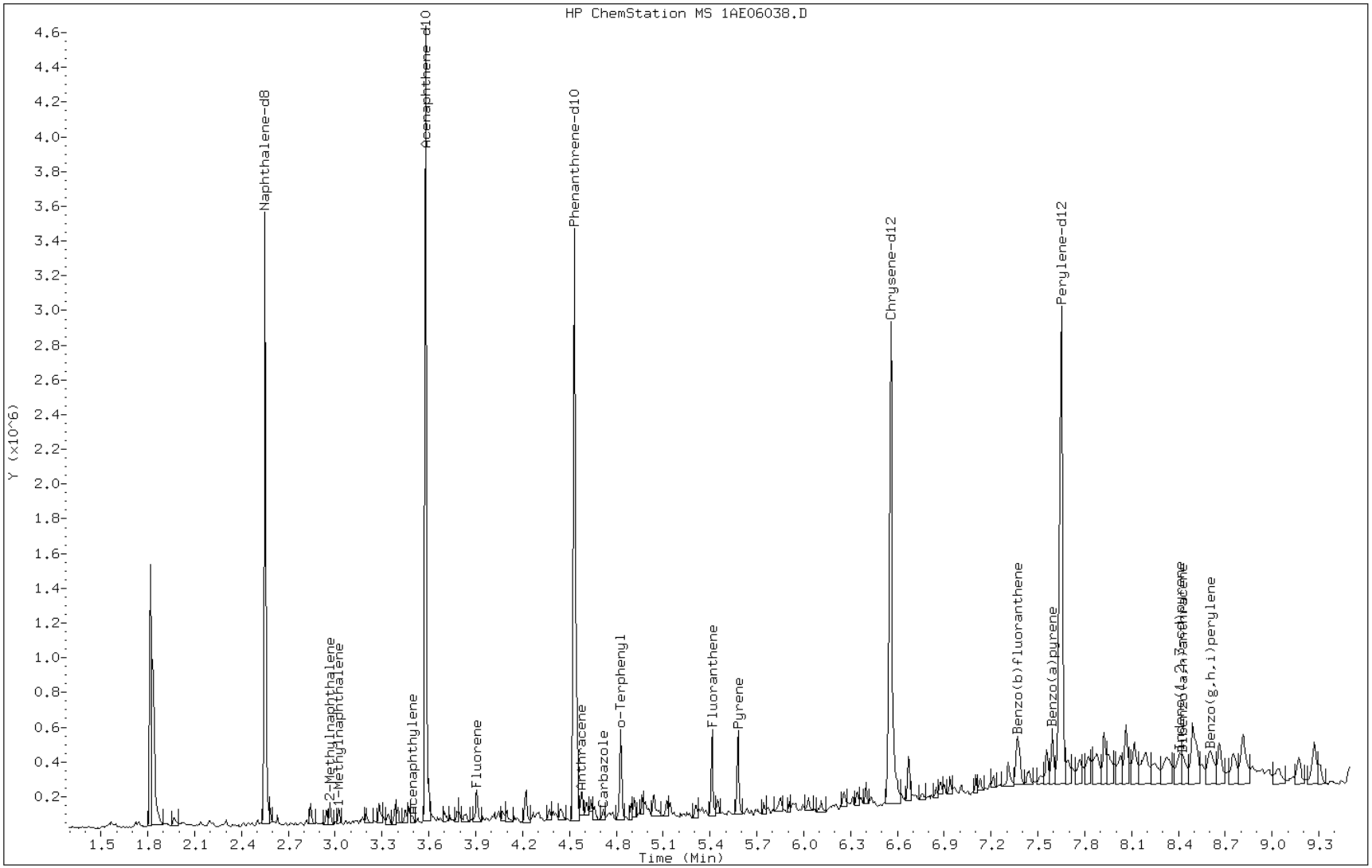
M - Compound response manually integrated.

Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC



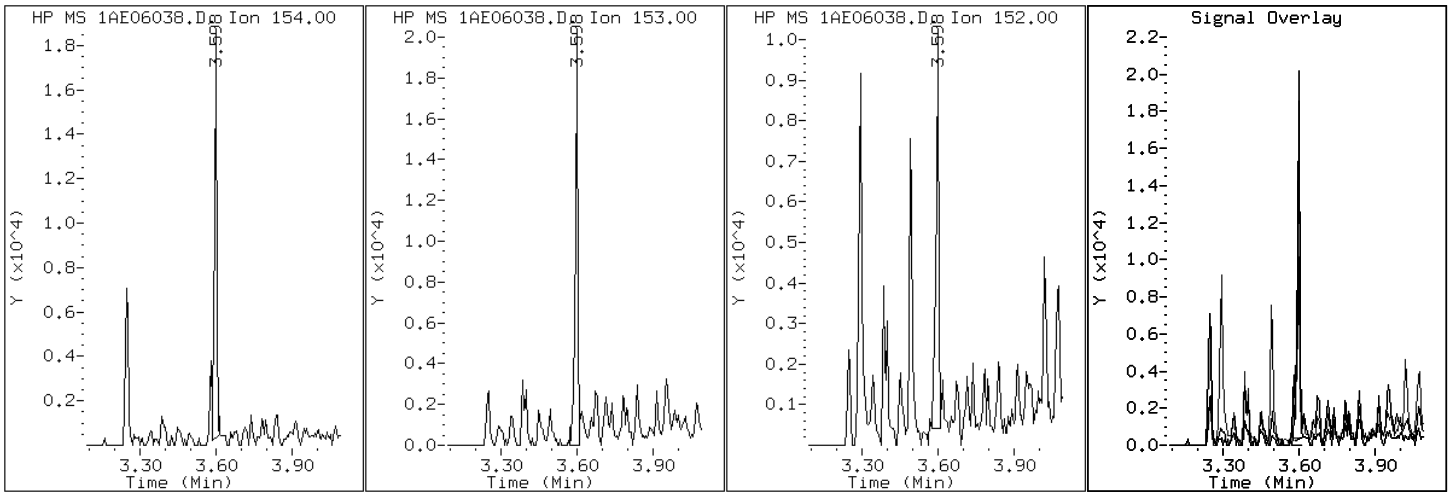
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

7 Acenaphthene



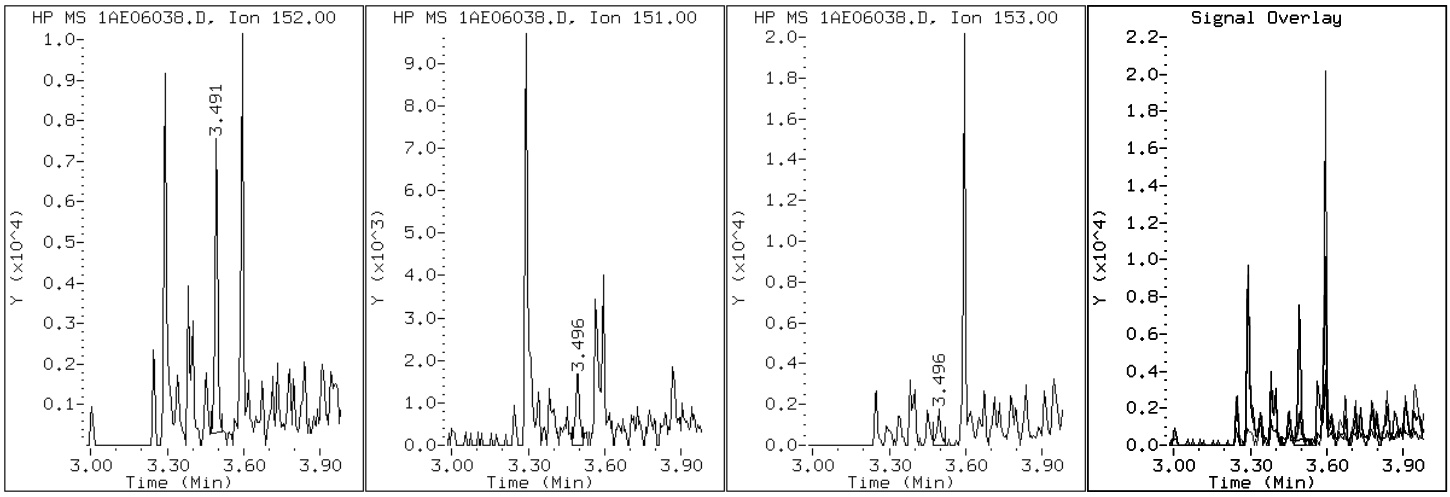
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

5 Acenaphthylene



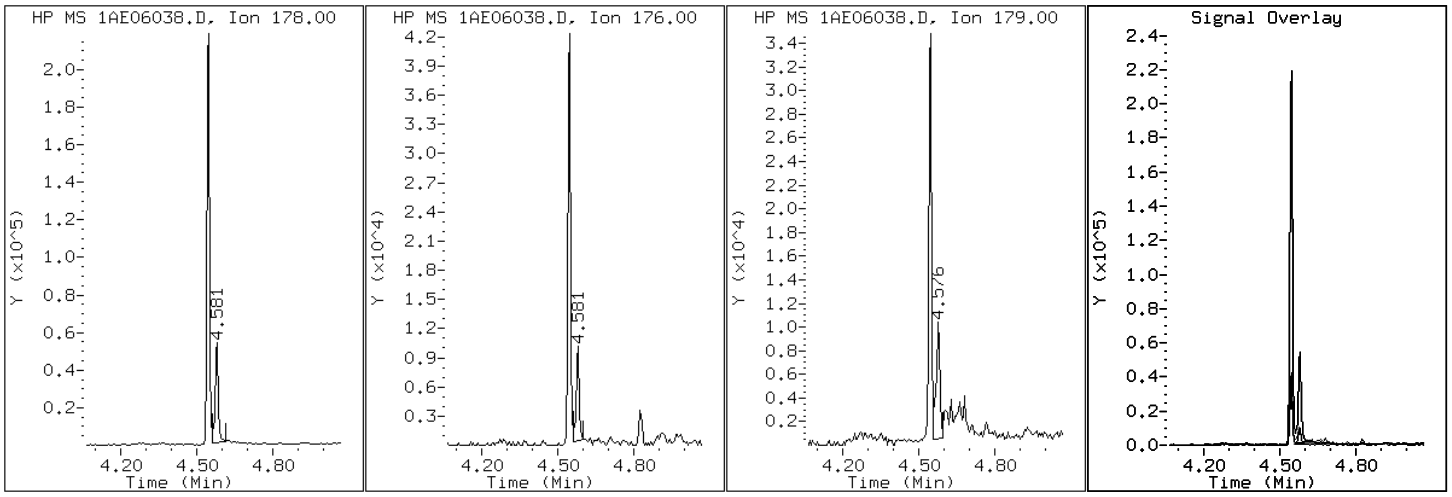
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

12 Anthracene



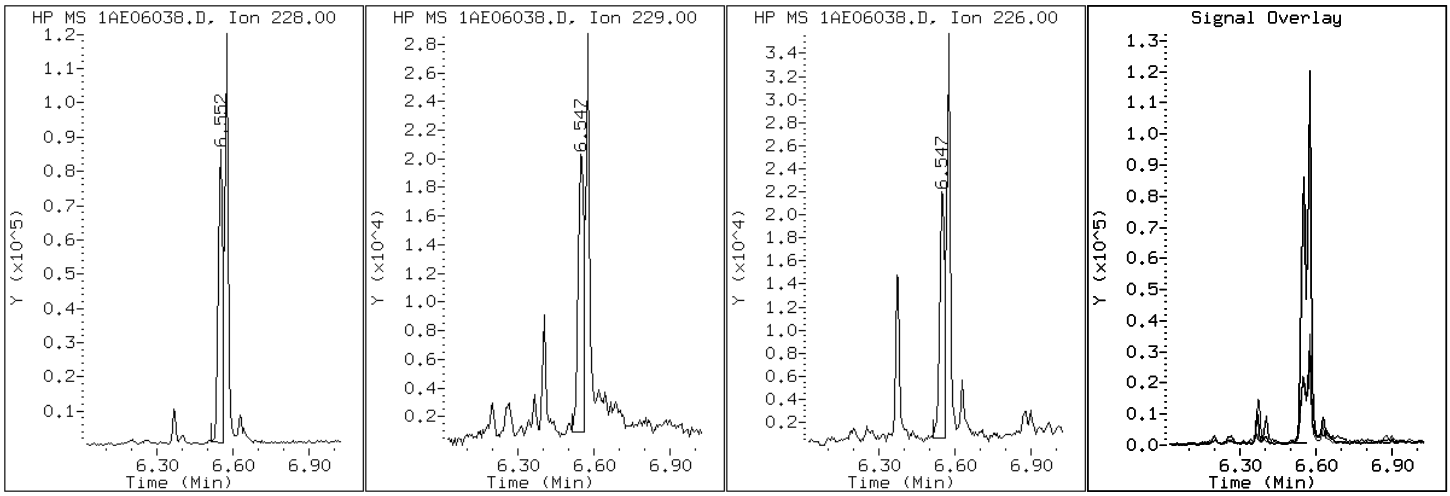
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

17 Benzo(a)anthracene



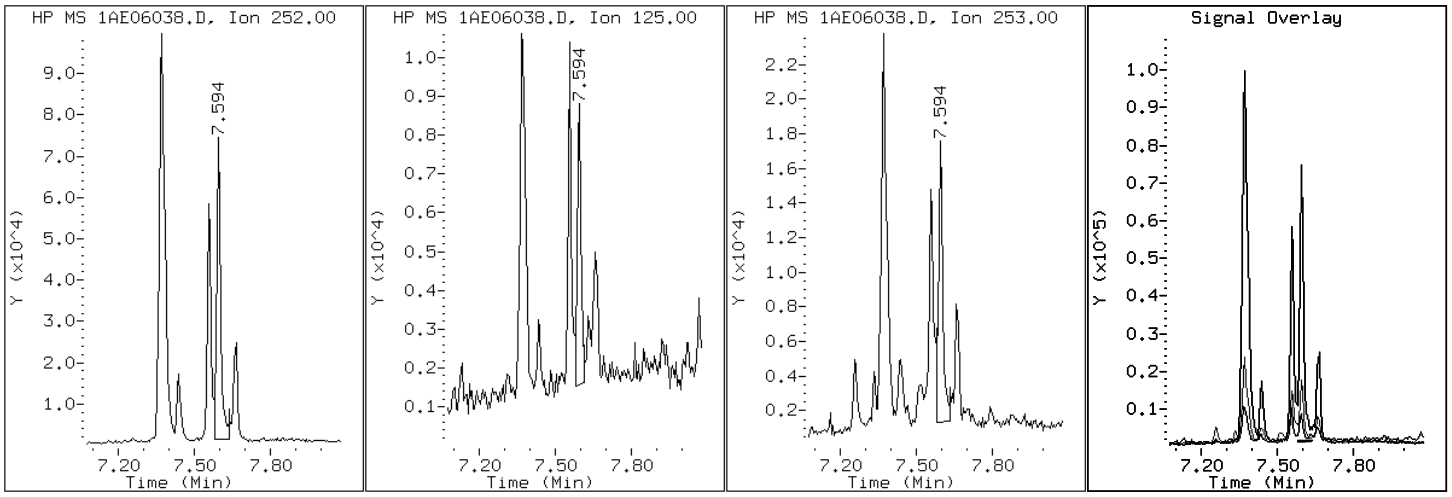
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

22 Benzo(a)pyrene



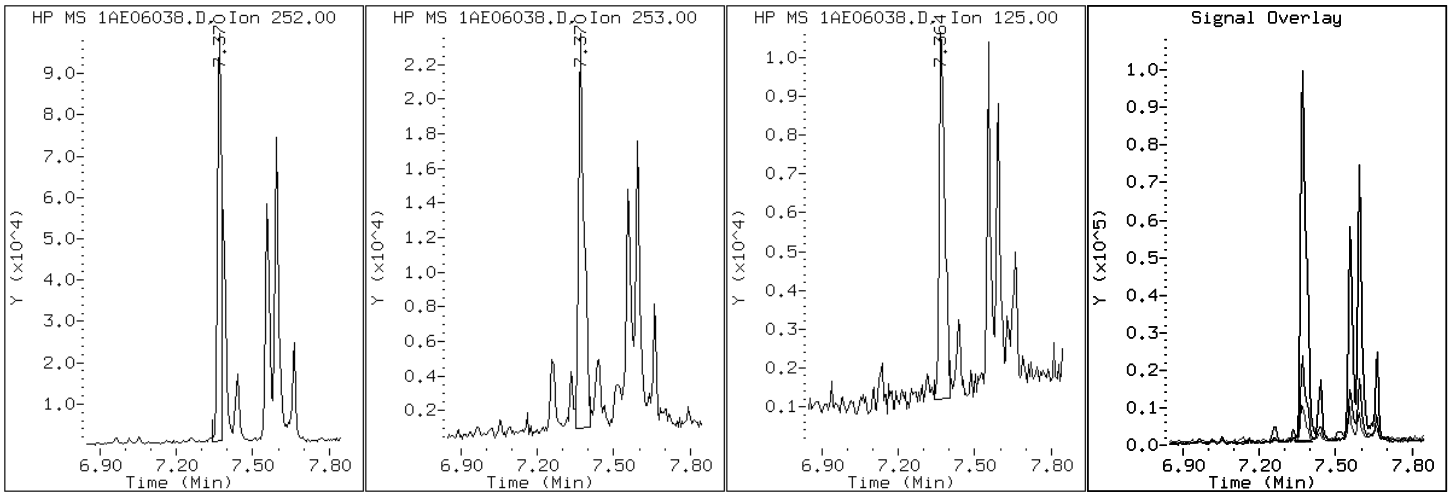
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

20 Benzo(b)fluoranthene



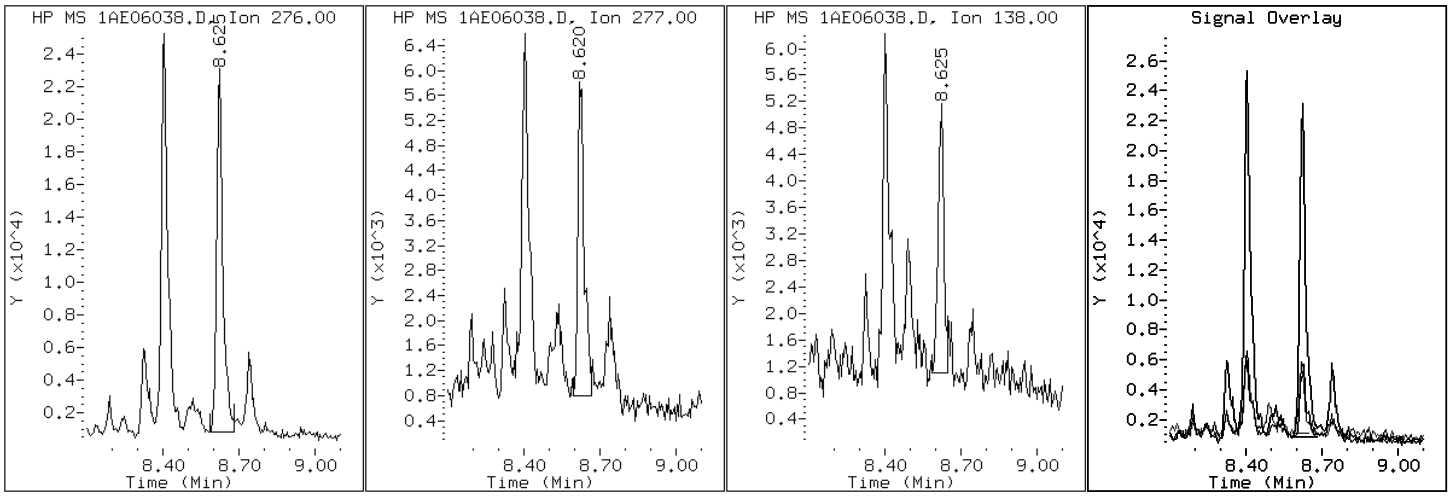
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

26 Benzo(g,h,i)perylene



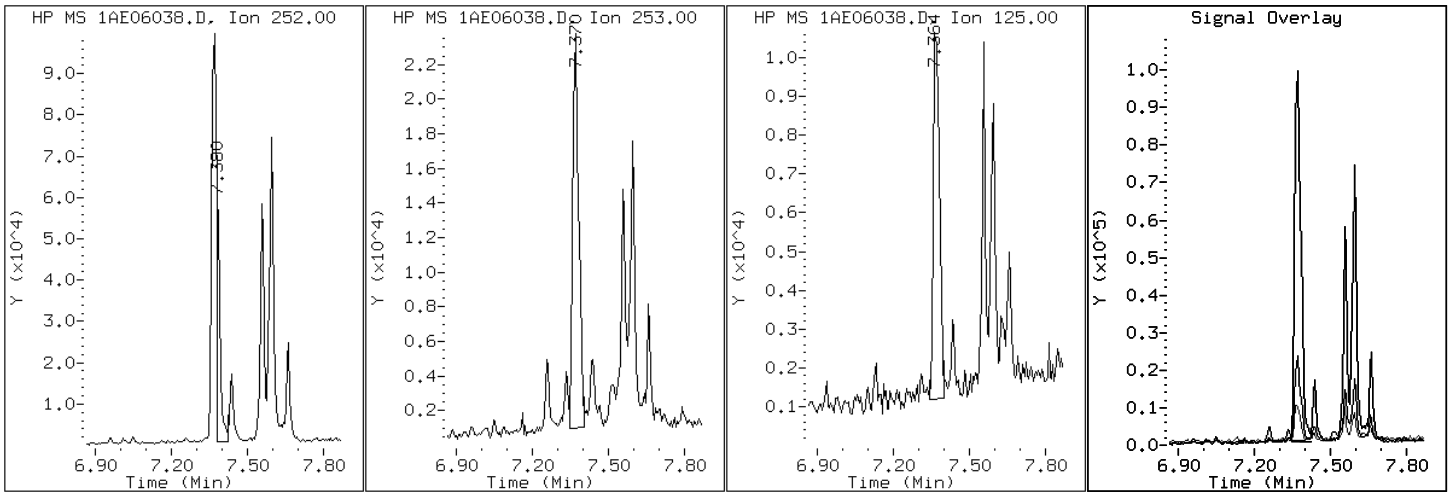
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

21 Benzo(k)fluoranthene



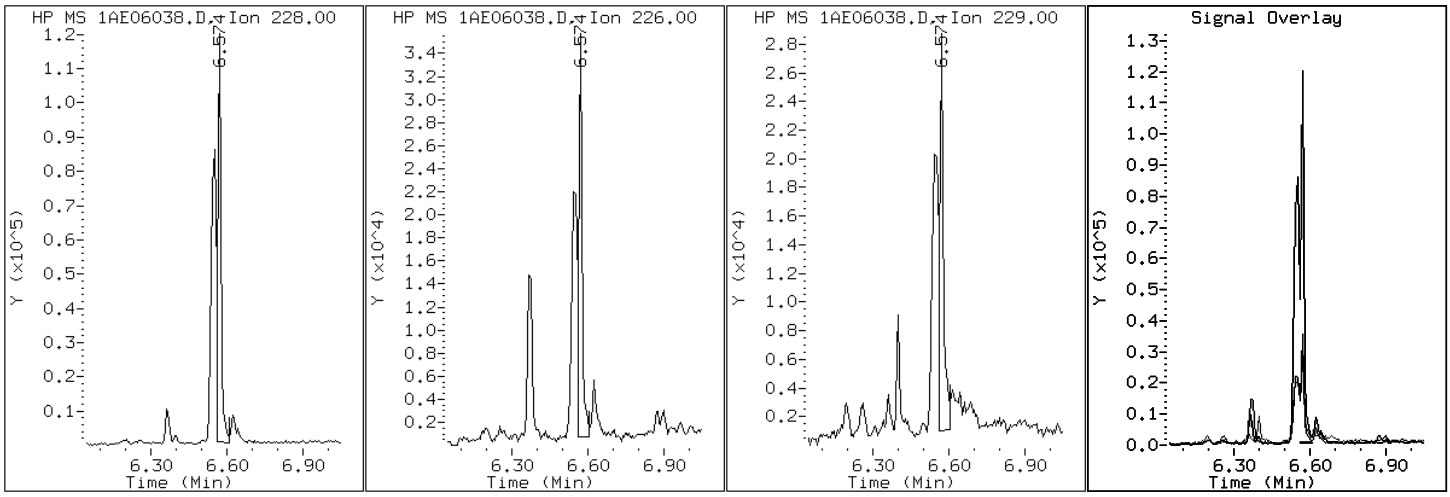
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

19 Chrysene



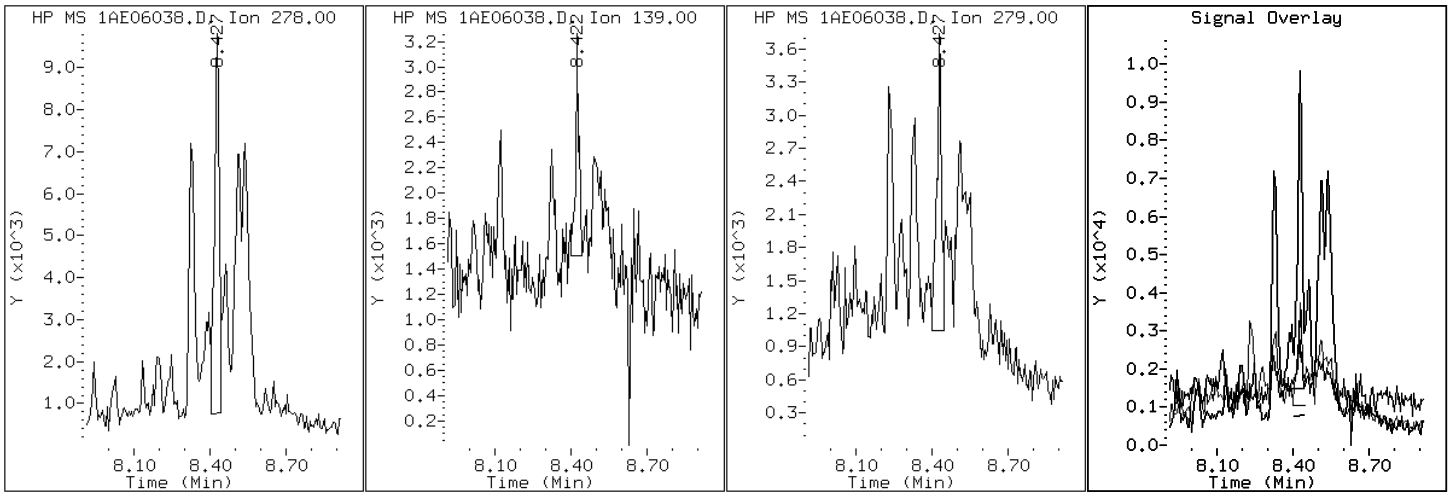
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

25 Dibenzo(a,h)anthracene



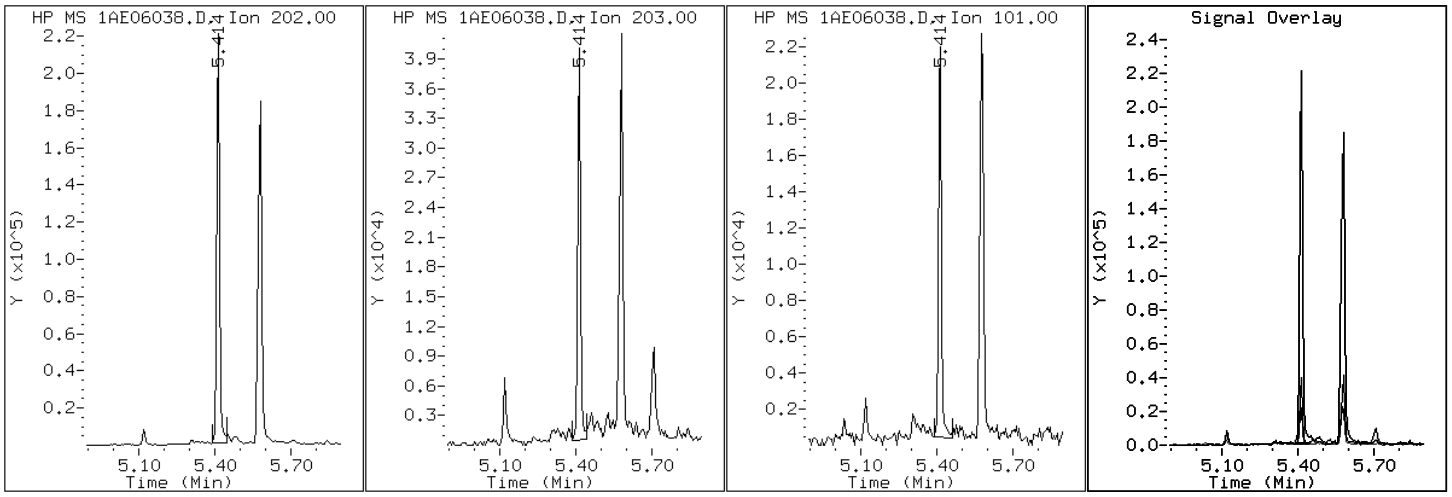
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

15 Fluoranthene



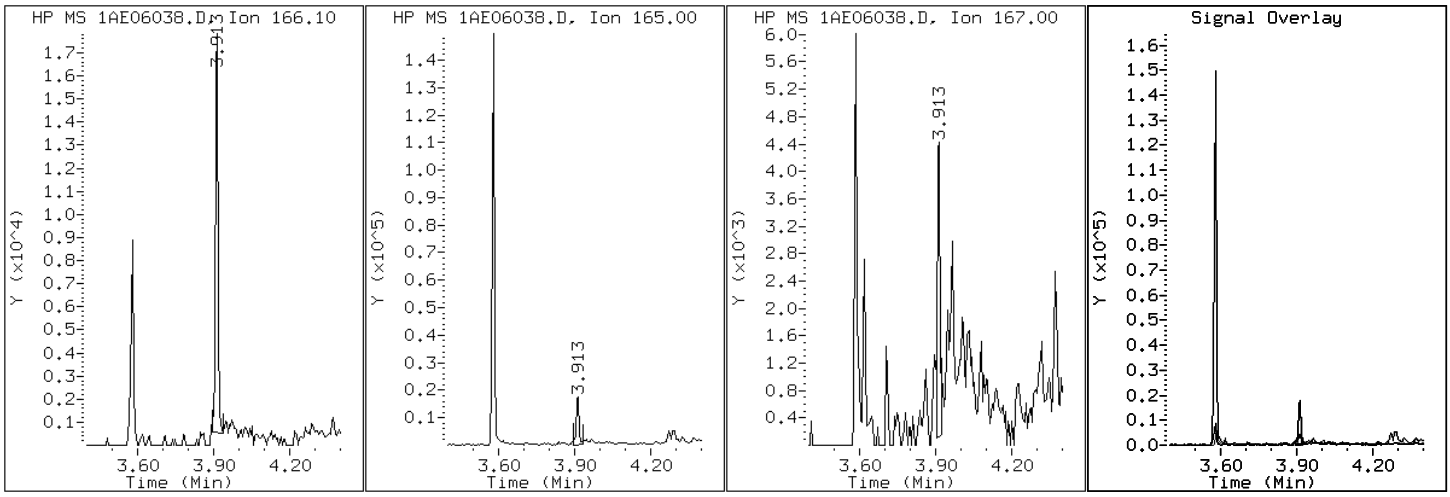
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

9 Fluorene



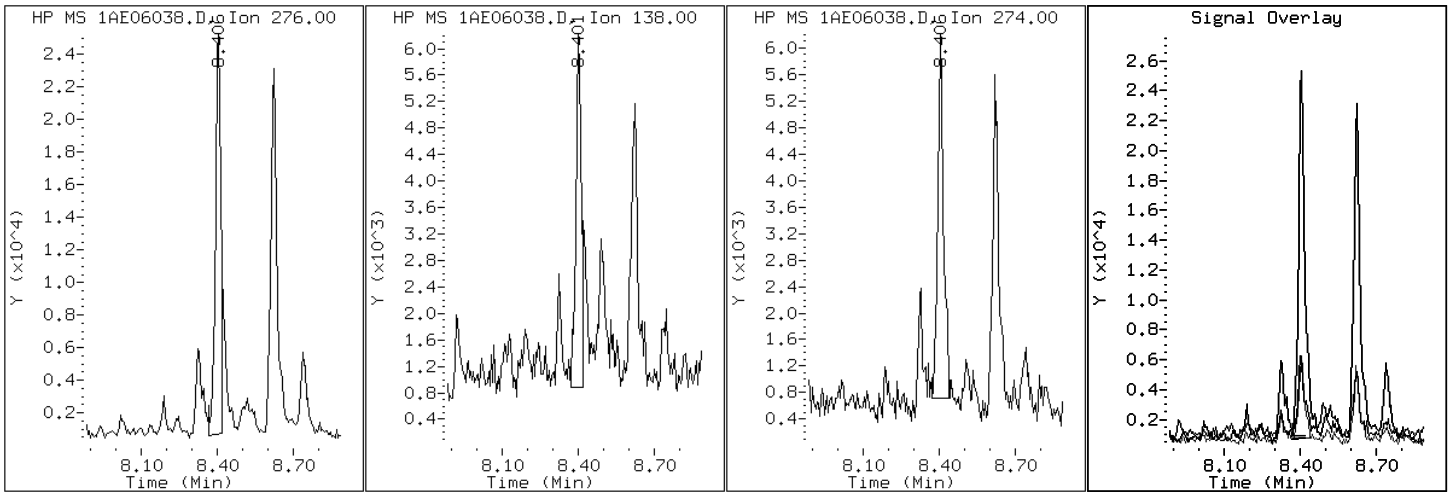
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

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



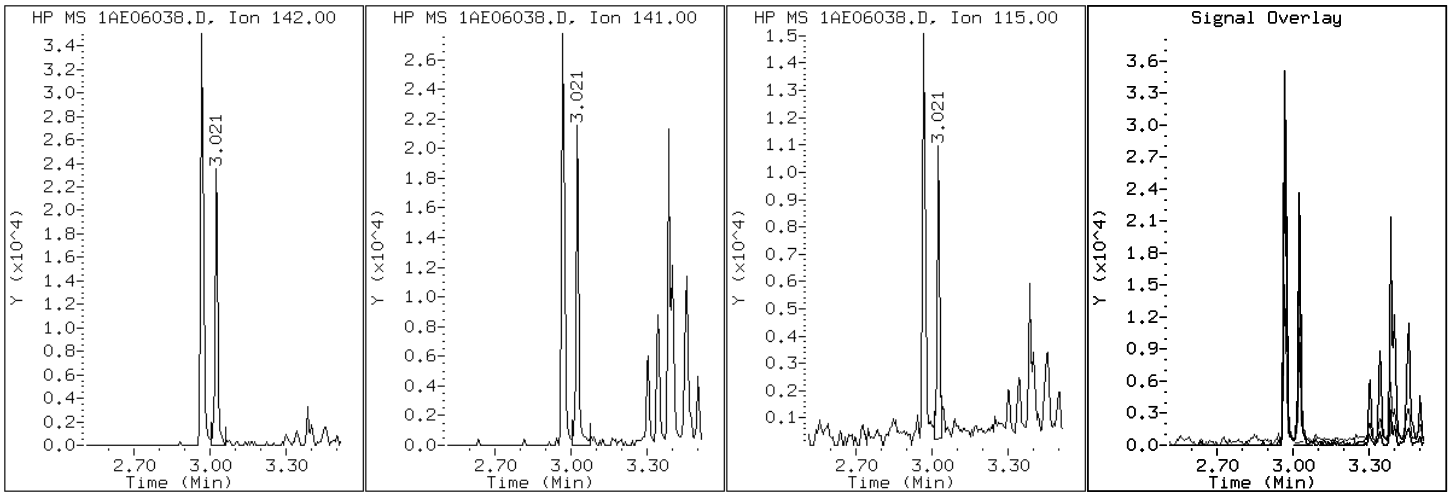
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

4 1-Methylnaphthalene



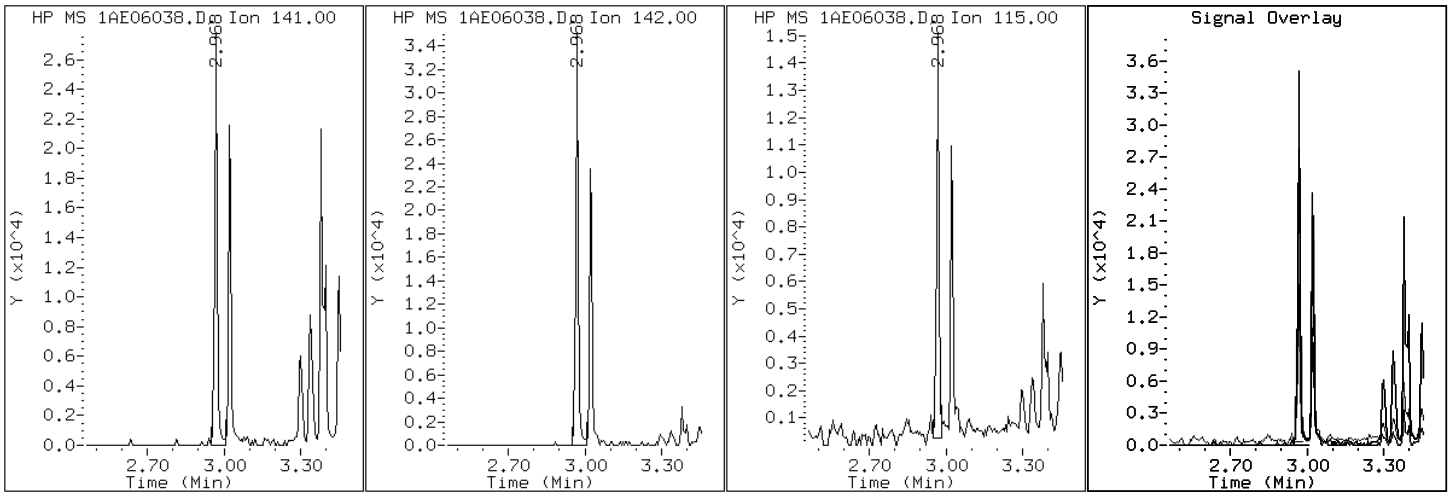
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

3 2-Methylnaphthalene



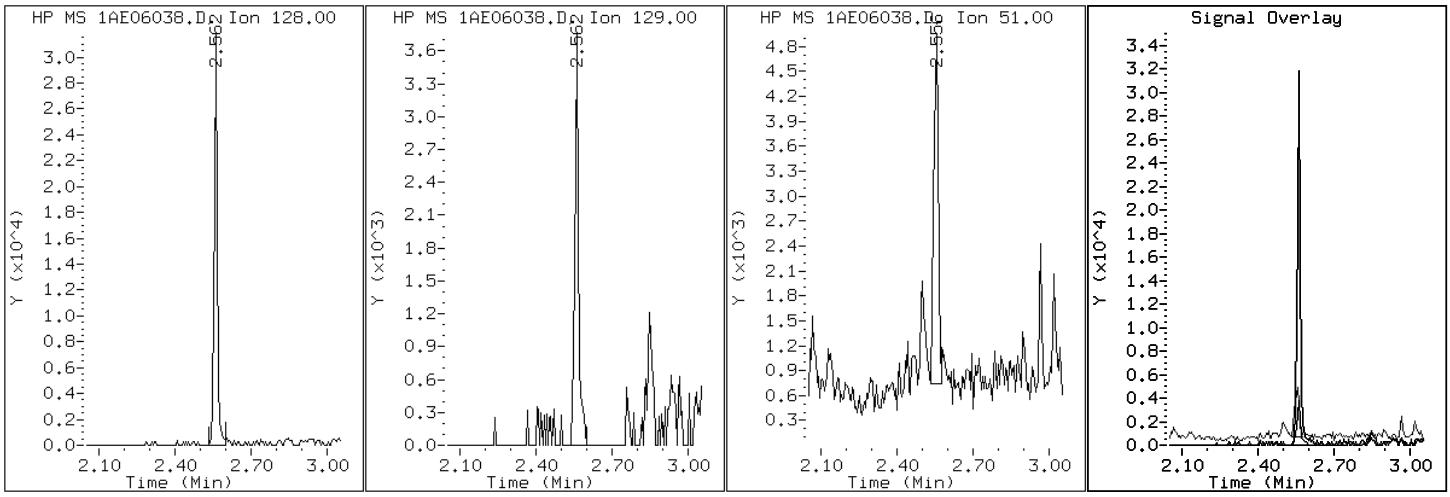
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

2 Naphthalene



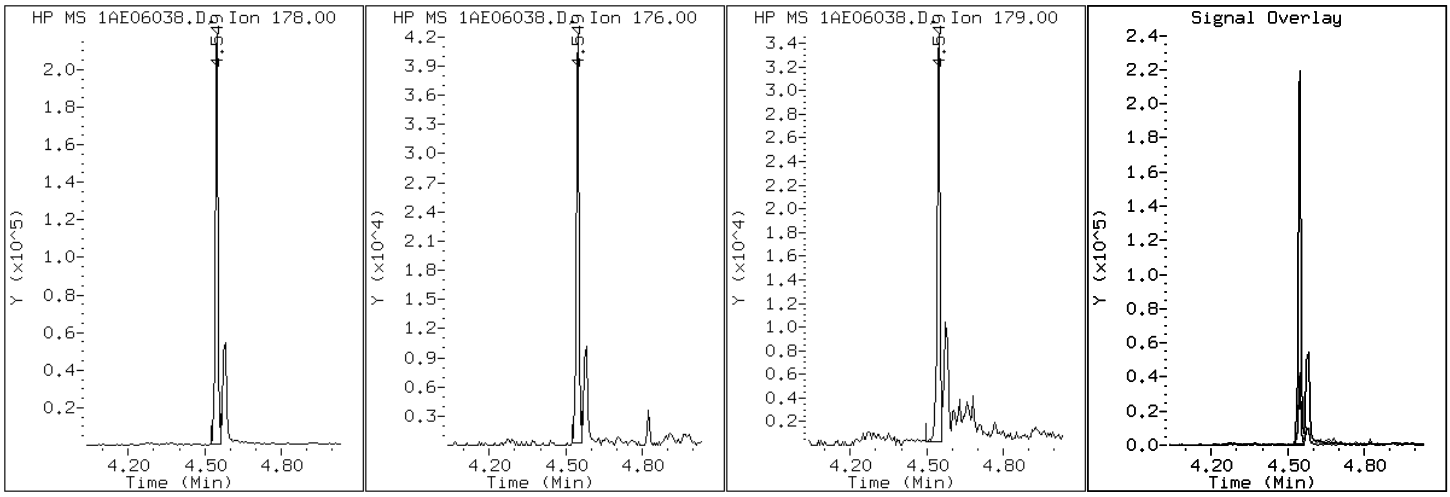
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

11 Phenanthrene



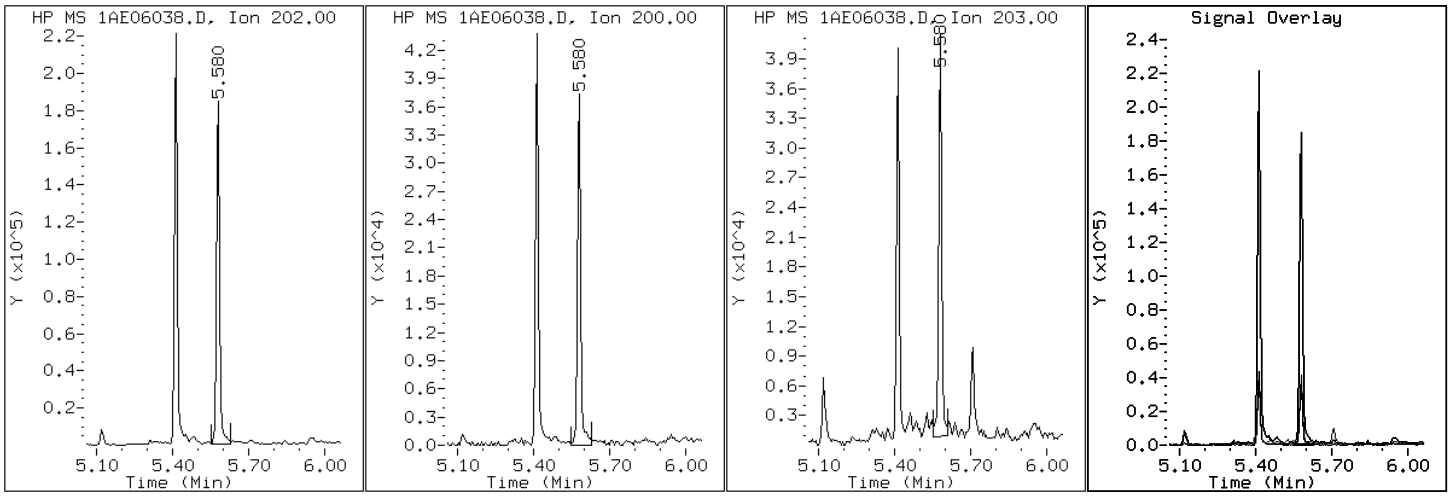
Data File: 1AE06038.D

Date: 06-MAY-2013 20:12

Client ID: CV0963A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-14-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06038.D
Inj. Date and Time: 06-MAY-2013 20:12
Instrument ID: BSMA5973.i
Client ID: CV0963A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

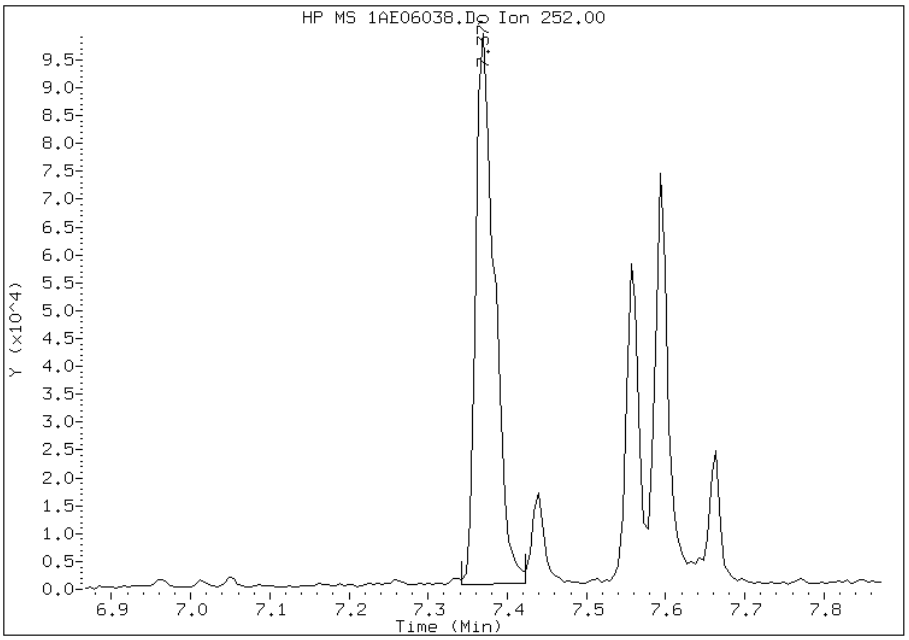
Processing Integration Results

RT: 7.37

Response: 162165

Amount: 5

Conc: 433



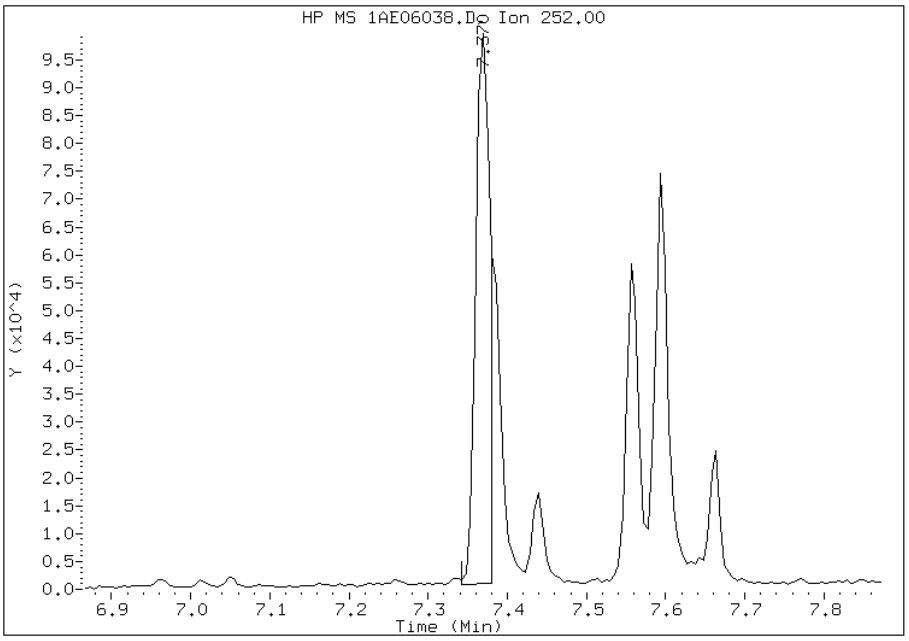
Manual Integration Results

RT: 7.37

Response: 122823

Amount: 4

Conc: 328



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:18
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06038.D
Inj. Date and Time: 06-MAY-2013 20:12
Instrument ID: BSMA5973.i
Client ID: CV0963A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

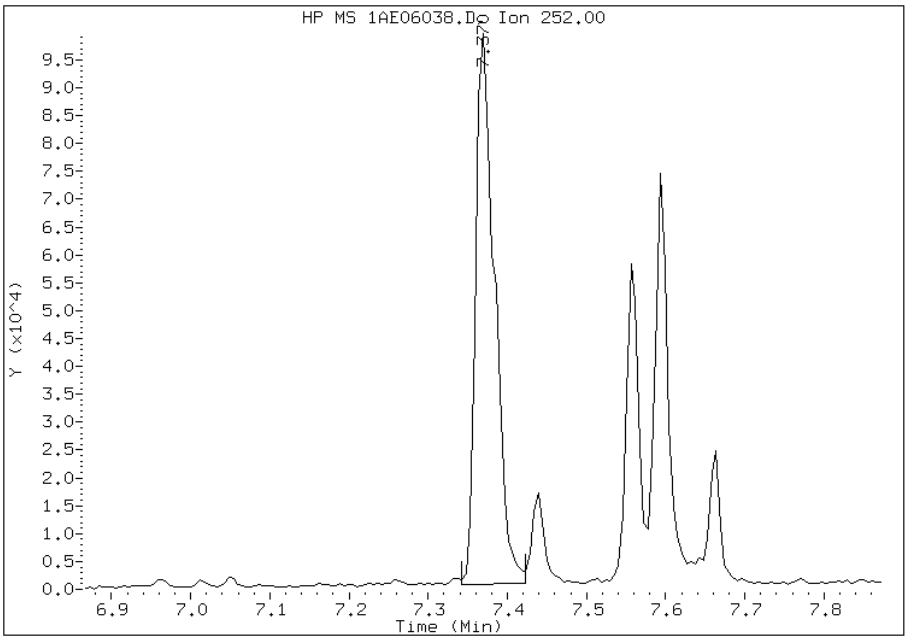
Processing Integration Results

RT: 7.37

Response: 162165

Amount: 4

Conc: 349



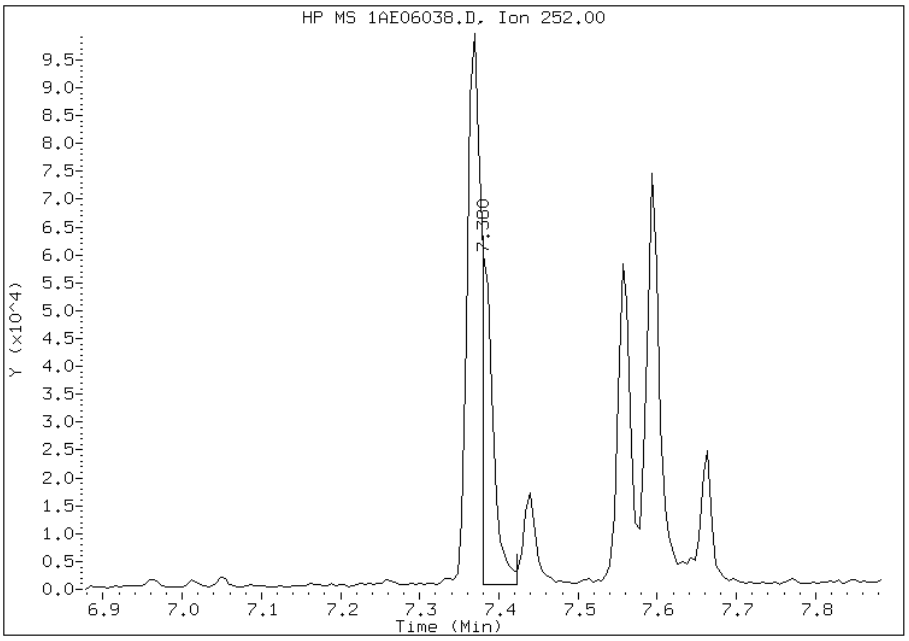
Manual Integration Results

RT: 7.38

Response: 59064

Amount: 1

Conc: 127



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06038.D
Inj. Date and Time: 06-MAY-2013 20:12
Instrument ID: BSMA5973.i
Client ID: CV0963A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

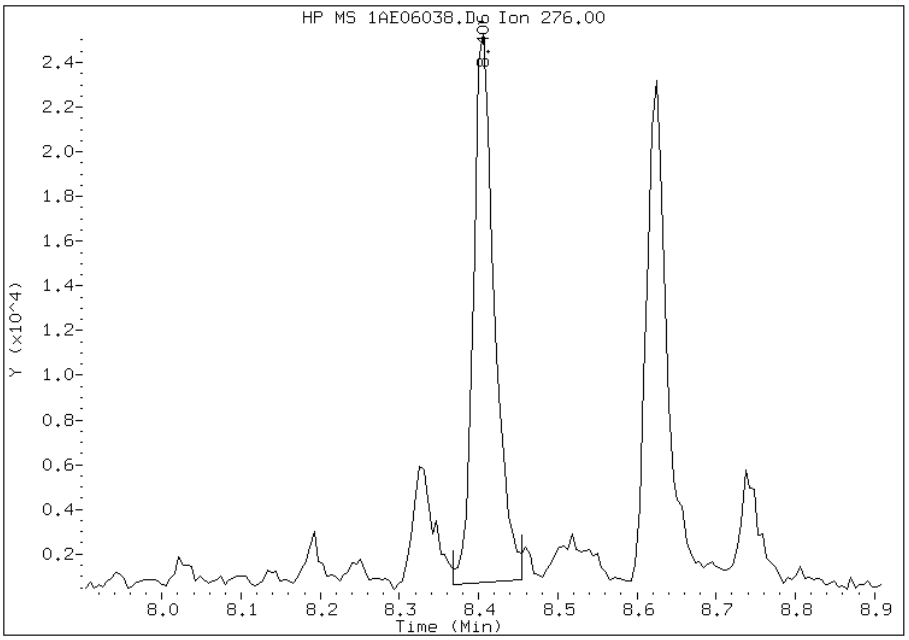
Processing Integration Results

RT: 8.41

Response: 45412

Amount: 2

Conc: 141



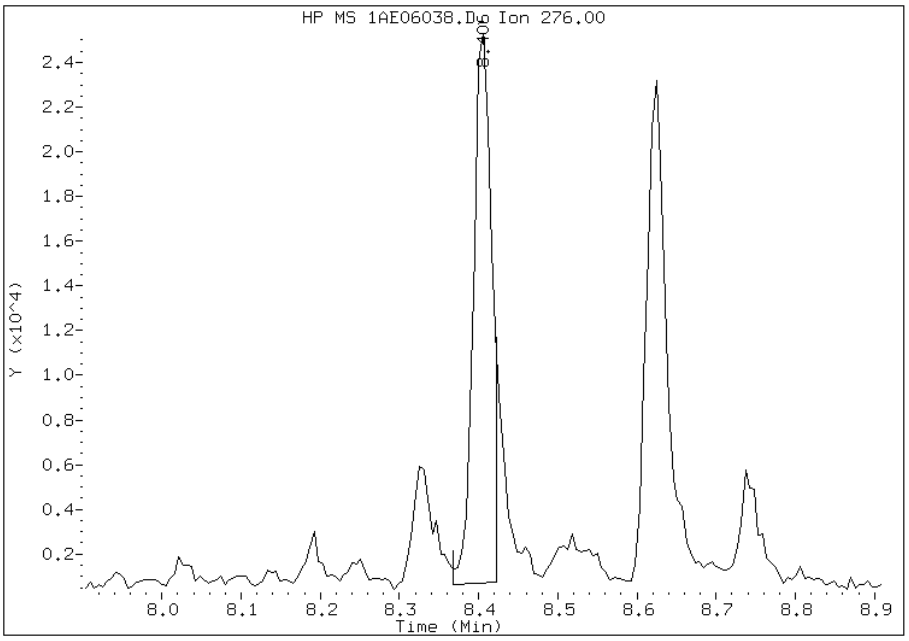
Manual Integration Results

RT: 8.41

Response: 39015

Amount: 1

Conc: 121



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0964A-CS-SP | Lab Sample ID: 680-89896-15

Matrix: Solid | Lab File ID: 1AE06039.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 13:35

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 15.07(g) | Date Analyzed: 05/06/2013 20:27

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

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

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

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	40	J	200	25
120-12-7	Anthracene	84		41	21
56-55-3	Benzo[a]anthracene	310		39	19
50-32-8	Benzo[a]pyrene	220		51	26
205-99-2	Benzo[b]fluoranthene	280		60	30
191-24-2	Benzo[g,h,i]perylene	120		98	22
207-08-9	Benzo[k]fluoranthene	150		39	18
218-01-9	Chrysene	230		44	22
53-70-3	Dibenz(a,h)anthracene	40	J	98	20
206-44-0	Fluoranthene	320		98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	120		98	35
90-12-0	1-Methylnaphthalene	65	J	200	22
91-57-6	2-Methylnaphthalene	130	J	200	35
91-20-3	Naphthalene	78	J	200	22
85-01-8	Phenanthrene	210		39	19
129-00-0	Pyrene	270		98	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	53		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06039.D
Lab Smp Id: 680-89896-A-15-A Client Smp ID: CV0964A-CS-SP
Inj Date : 06-MAY-2013 20:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-15-a
Misc Info : 680-89896-A-15-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 39
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	18.868	% 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)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.554	2.544	(1.000)	1448832	40.0000	
*	6 Acenaphthene-d10	164	3.580	3.575	(1.000)	751270	40.0000	
*	10 Phenanthrene-d10	188	4.531	4.521	(1.000)	1193682	40.0000	
$	14 o-Terphenyl	230	4.825	4.820	(1.065)	22692	1.32825	434.5427
*	18 Chrysene-d12	240	6.555	6.535	(1.000)	1139349	40.0000	
*	23 Perylene-d12	264	7.651	7.630	(1.000)	1231811	40.0000	
	2 Naphthalene	128	2.565	2.555	(1.004)	8145	0.23872	78.1001
	3 2-Methylnaphthalene	141	2.965	2.961	(1.161)	6968	0.40185	131.4684
	4 1-Methylnaphthalene	142	3.024	3.014	(1.184)	4149	0.19963	65.3098
	5 Acenaphthylene	152	3.489	3.484	(0.975)	4283	0.12133	39.6926
	11 Phenanthrene	178	4.541	4.537	(1.002)	18537	0.62683	205.0715
	12 Anthracene	178	4.579	4.569	(1.011)	8114	0.25757	84.2669
	13 Carbazole	167	4.718	4.702	(1.041)	2600	0.09180	30.0317
	15 Fluoranthene	202	5.412	5.397	(1.195)	33388	0.98141	321.0723

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	5.578	5.562	(0.851)	30404	0.83019	271.6005
17 Benzo(a)anthracene	228	6.550	6.524	(0.999)	30752	0.96038	314.1939
19 Chrysene	228	6.571	6.551	(1.002)	25368	0.70412	230.3572
20 Benzo(b)fluoranthene	252	7.362	7.347	(0.962)	28019	0.86057	281.5385(M)
21 Benzo(k)fluoranthene	252	7.373	7.368	(0.964)	19027	0.47106	154.1092(M)
22 Benzo(a)pyrene	252	7.592	7.576	(0.992)	22543	0.67418	220.5609
24 Indeno(1,2,3-cd)pyrene	276	8.398	8.388	(1.098)	10591	0.37808	123.6920(M)
25 Dibenzo(a,h)anthracene	278	8.420	8.414	(1.101)	3541	0.12332	40.3442(H)
26 Benzo(g,h,i)perylene	276	8.612	8.602	(1.126)	11083	0.36793	120.3689

QC Flag Legend

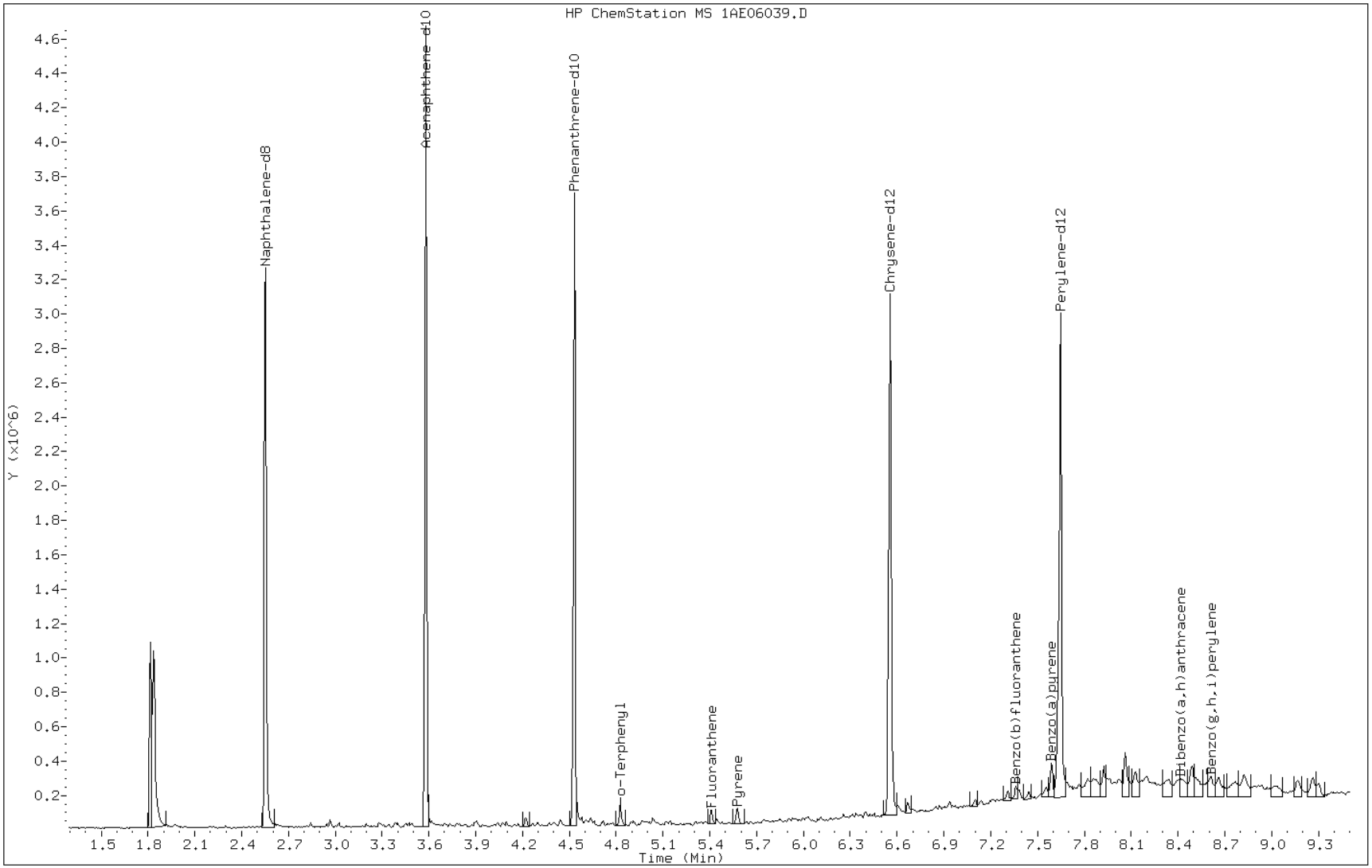
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC



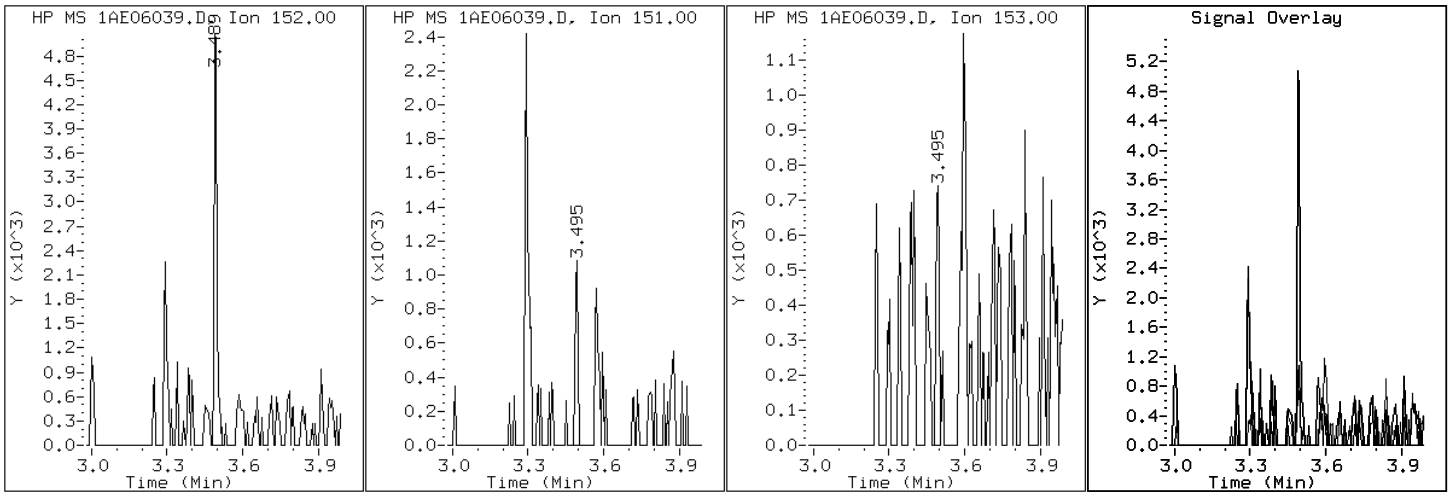
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

5 Acenaphthylene



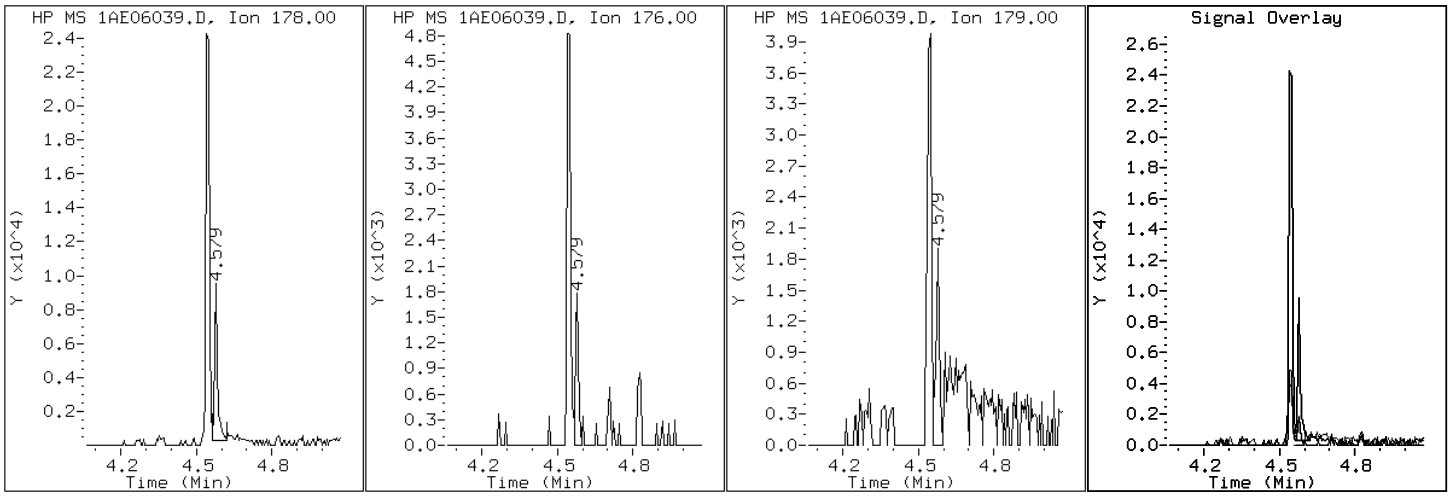
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

12 Anthracene



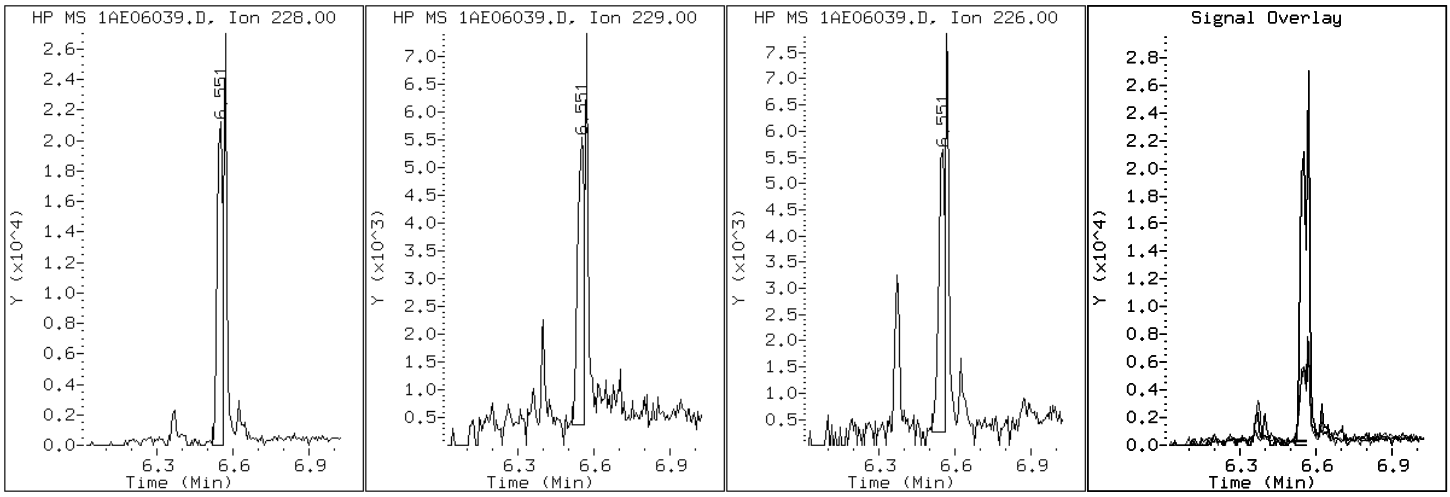
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

17 Benzo(a)anthracene



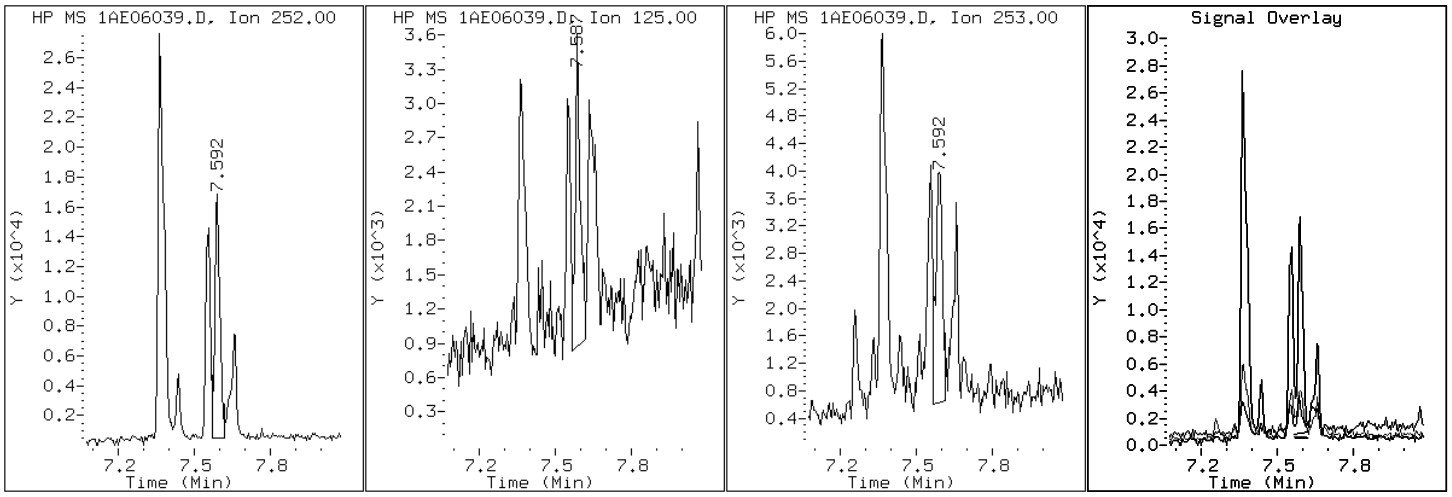
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

22 Benzo(a)pyrene



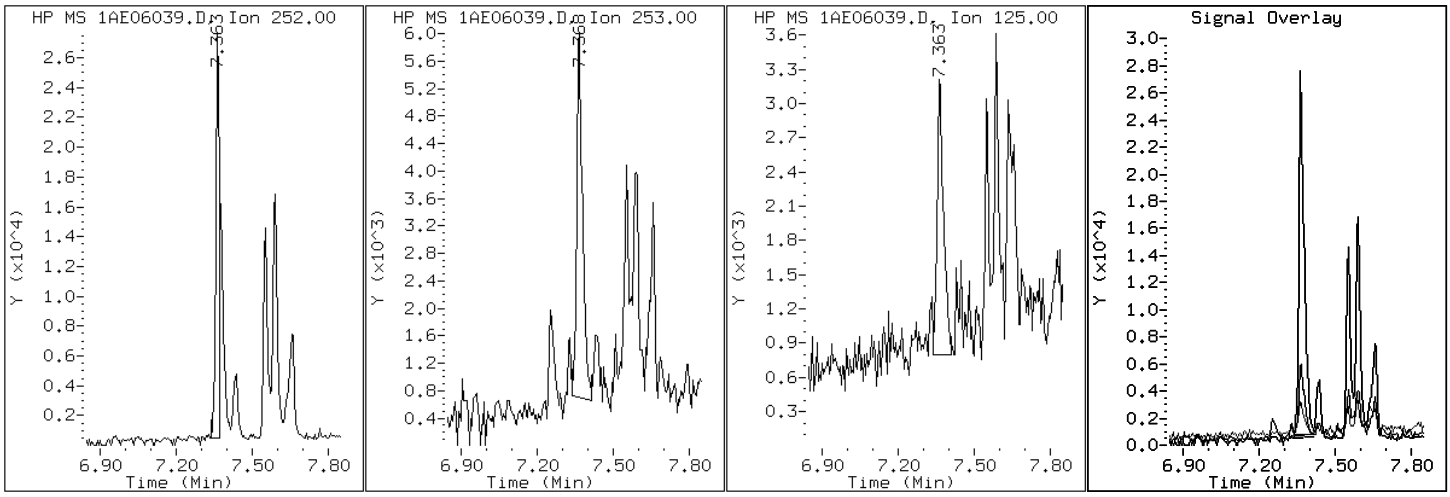
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

20 Benzo(b)fluoranthene



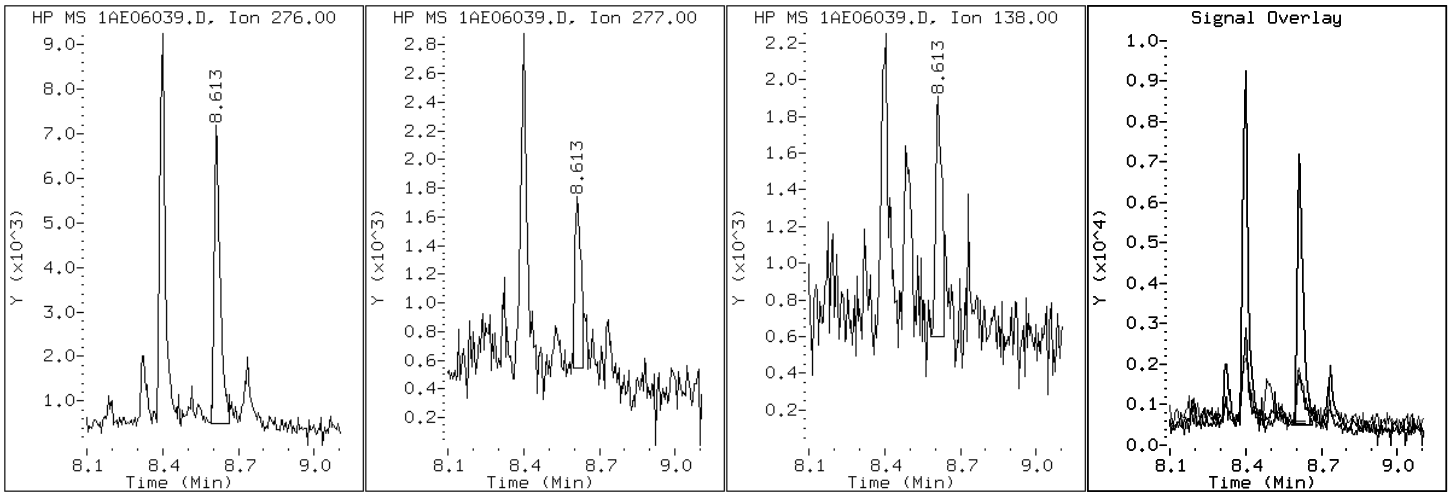
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

26 Benzo(g,h,i)perylene



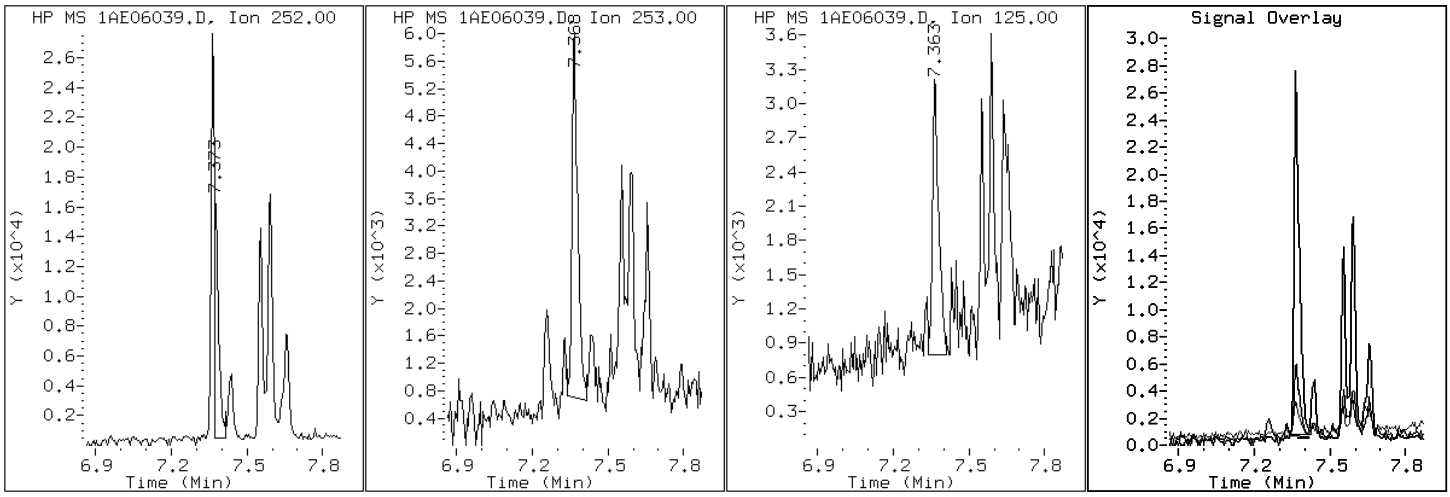
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

21 Benzo(k)fluoranthene



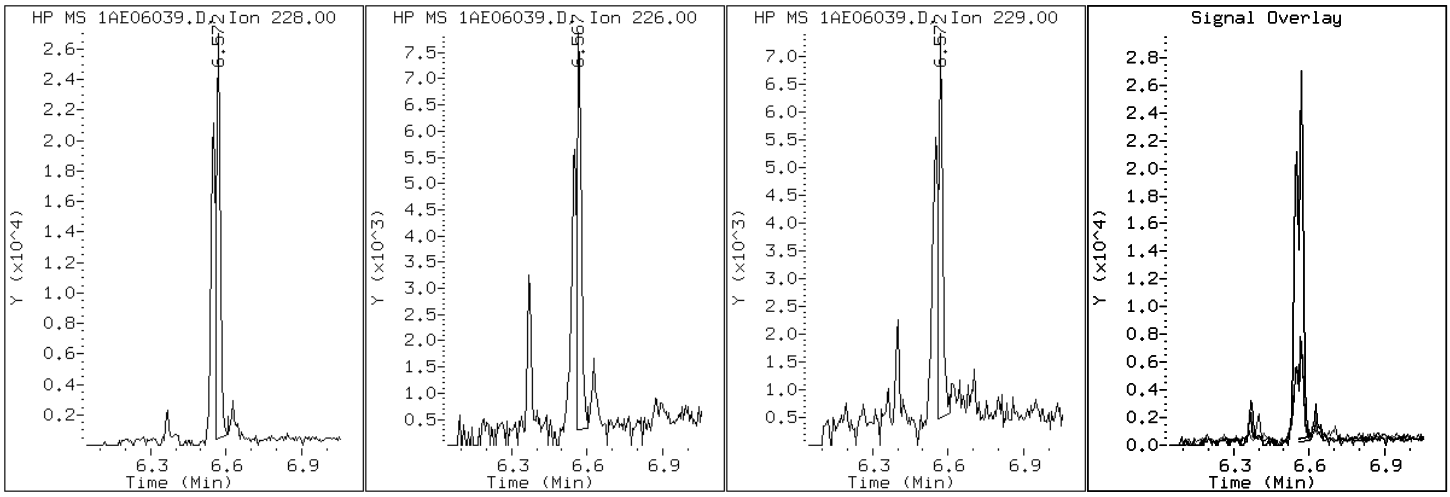
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

19 Chrysene



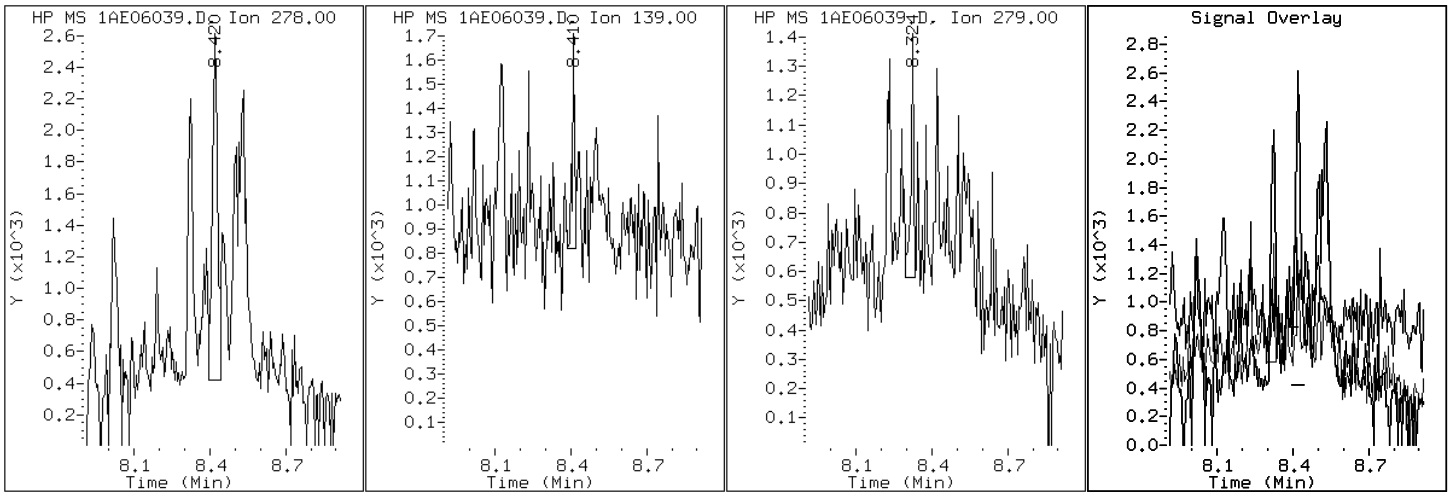
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

25 Dibenzo(a,h)anthracene



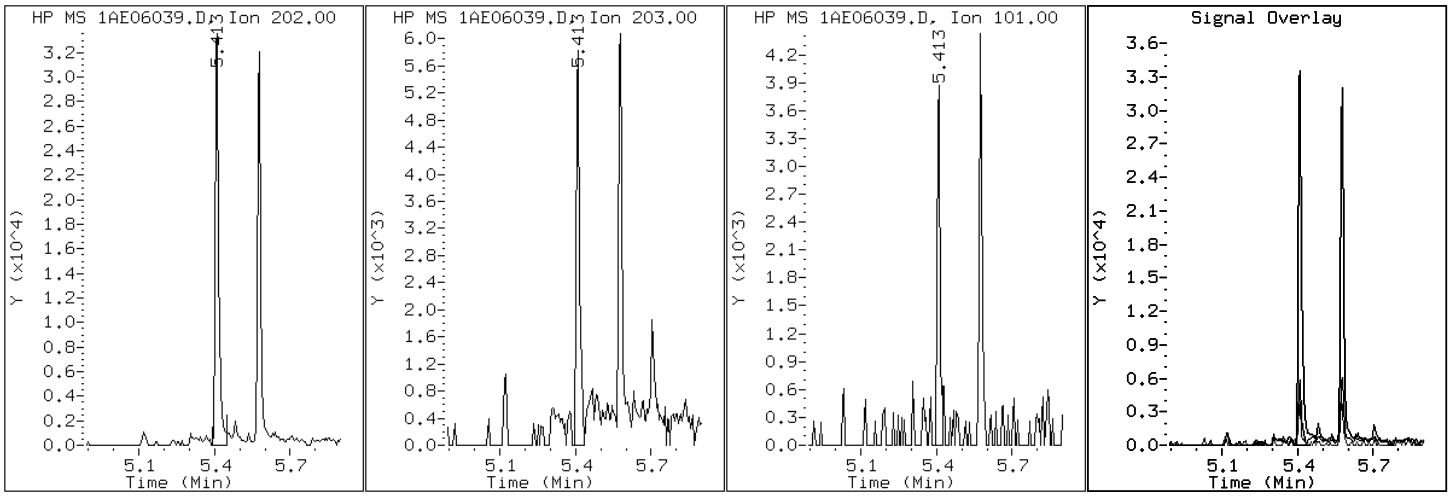
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

15 Fluoranthene



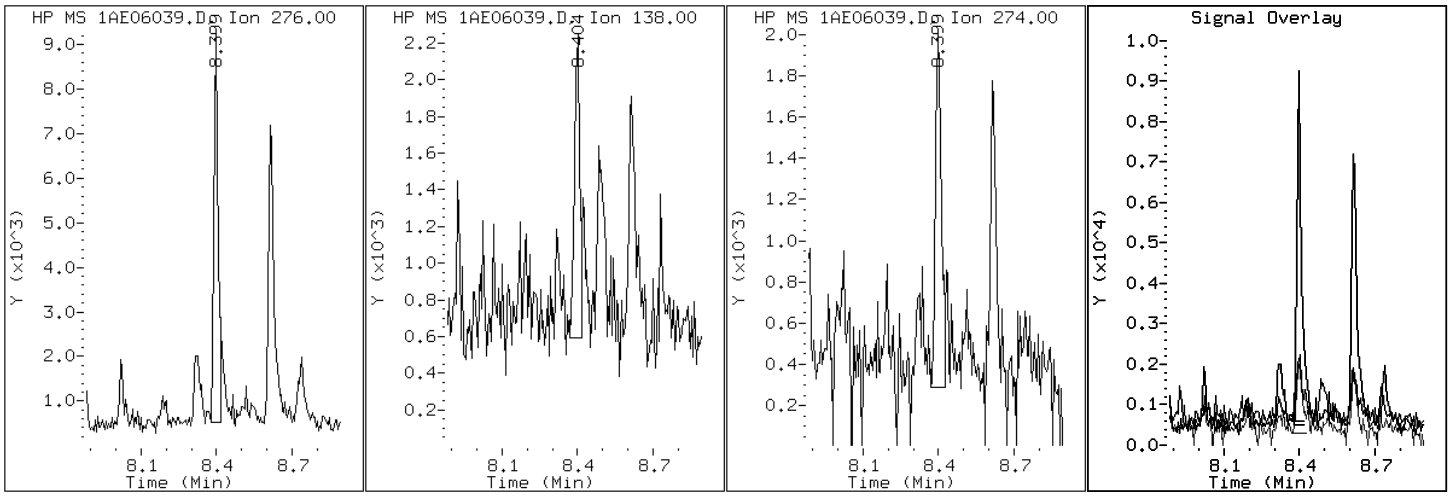
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

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



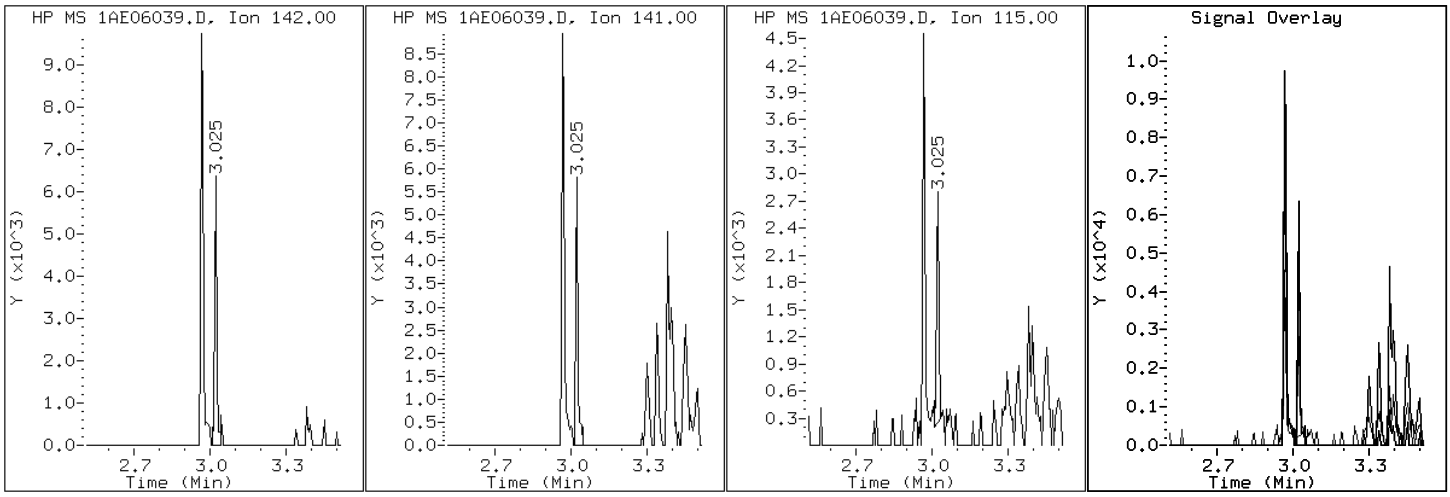
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

4 1-Methylnaphthalene



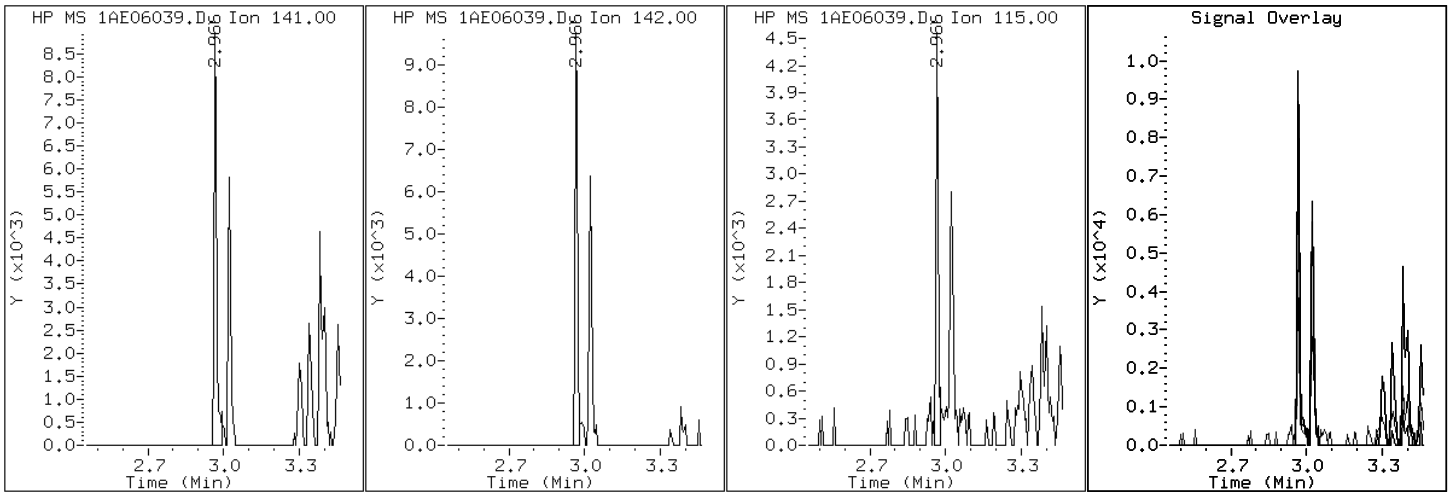
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

3 2-Methylnaphthalene



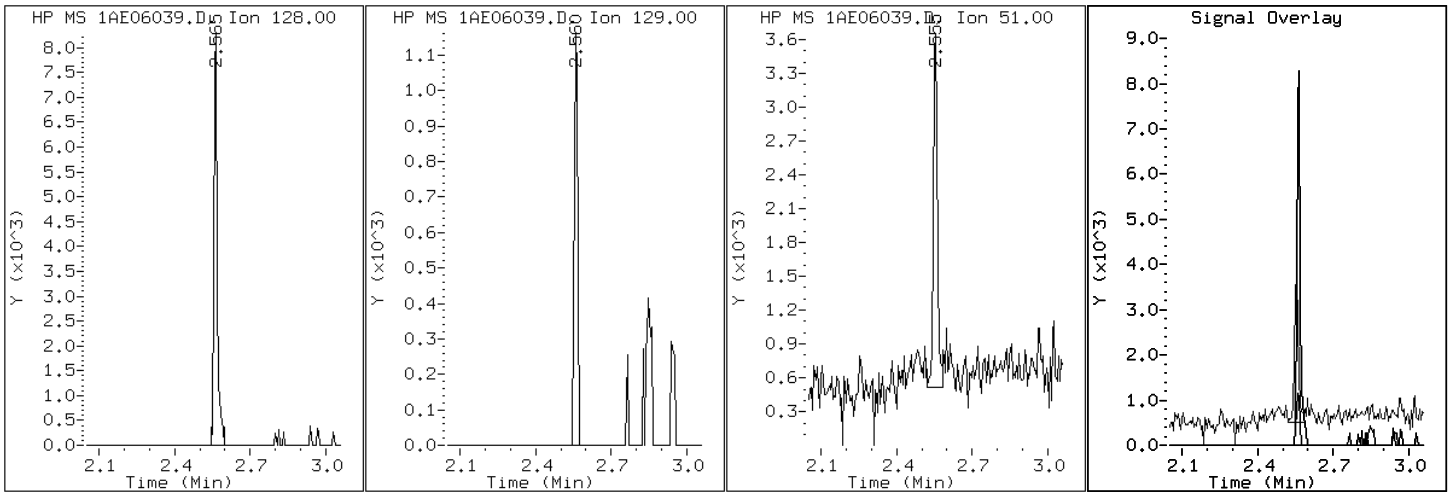
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

2 Naphthalene



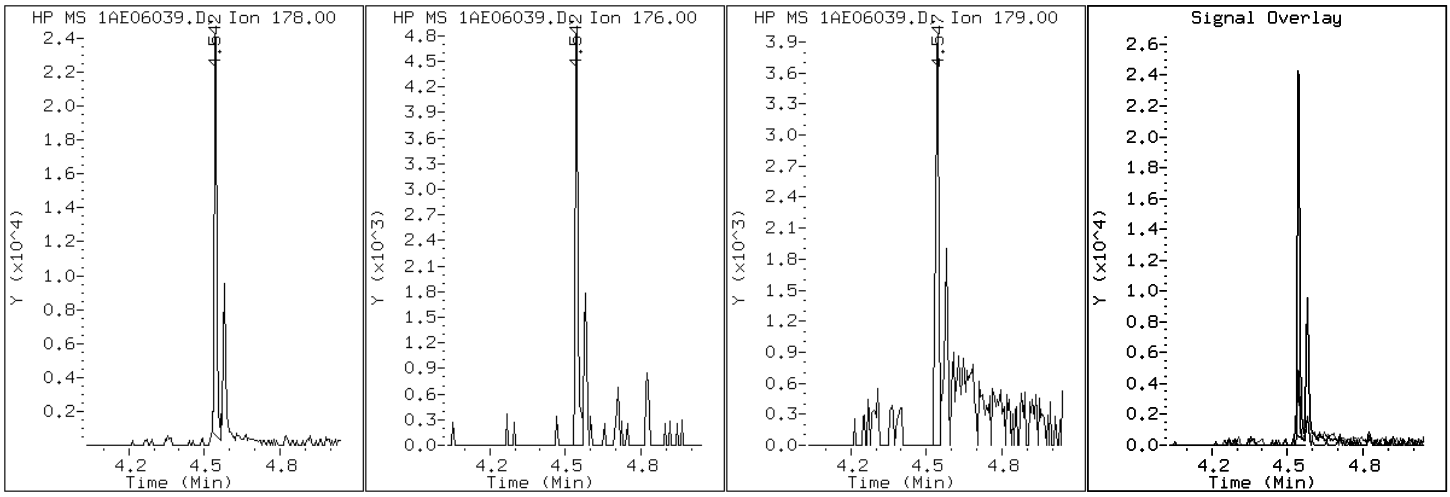
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

11 Phenanthrene



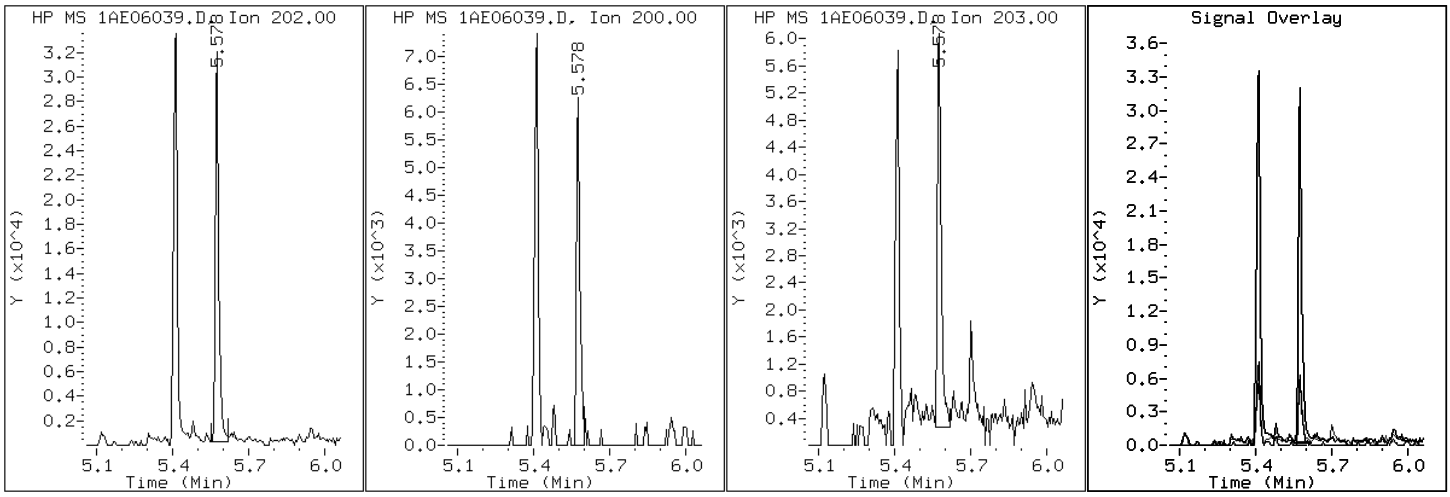
Data File: 1AE06039.D

Date: 06-MAY-2013 20:27

Client ID: CV0964A-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-15-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06039.D
Inj. Date and Time: 06-MAY-2013 20:27
Instrument ID: BSMA5973.i
Client ID: CV0964A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

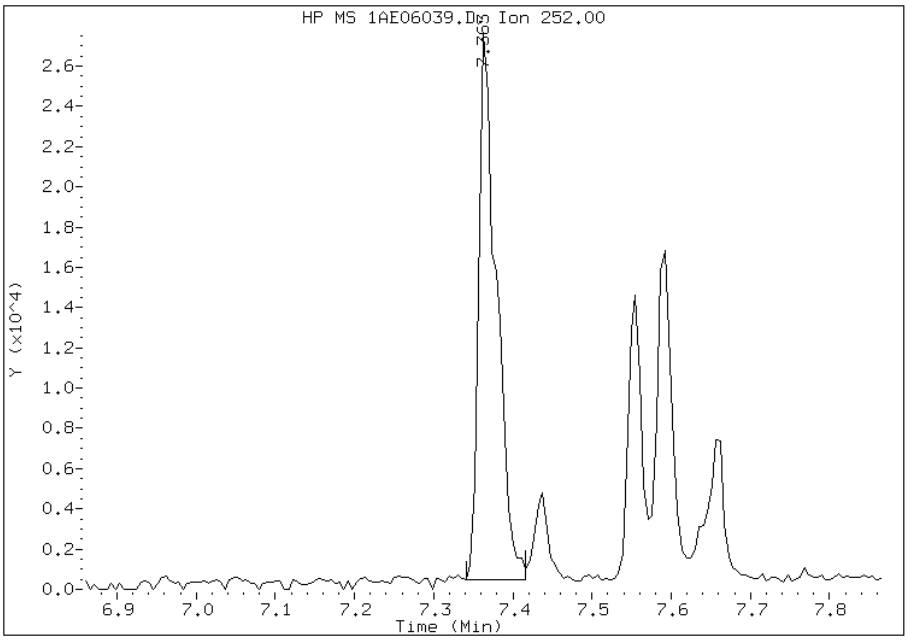
Processing Integration Results

RT: 7.36

Response: 41834

Amount: 1

Conc: 420



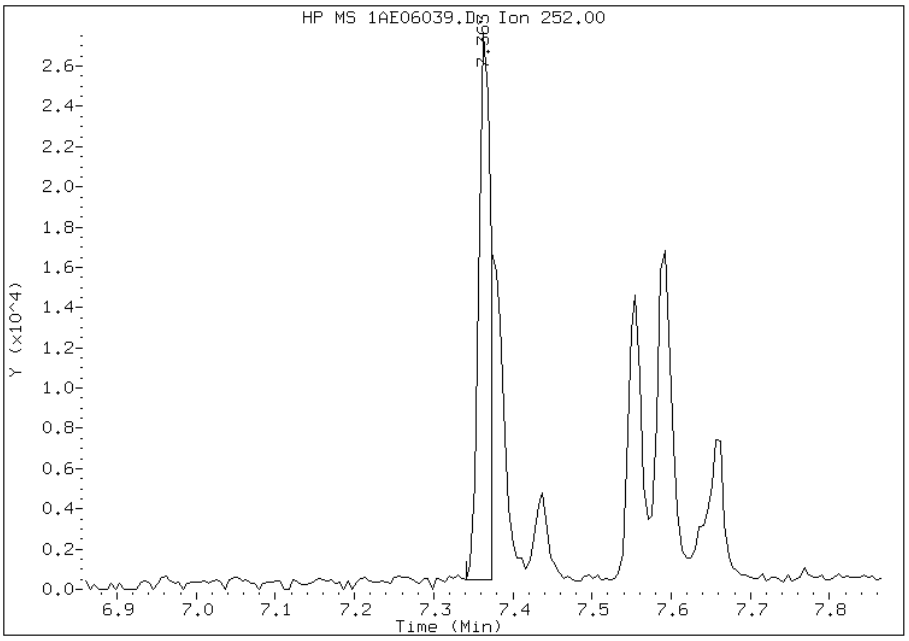
Manual Integration Results

RT: 7.36

Response: 28019

Amount: 1

Conc: 282



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:20
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06039.D
Inj. Date and Time: 06-MAY-2013 20:27
Instrument ID: BSMA5973.i
Client ID: CV0964A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

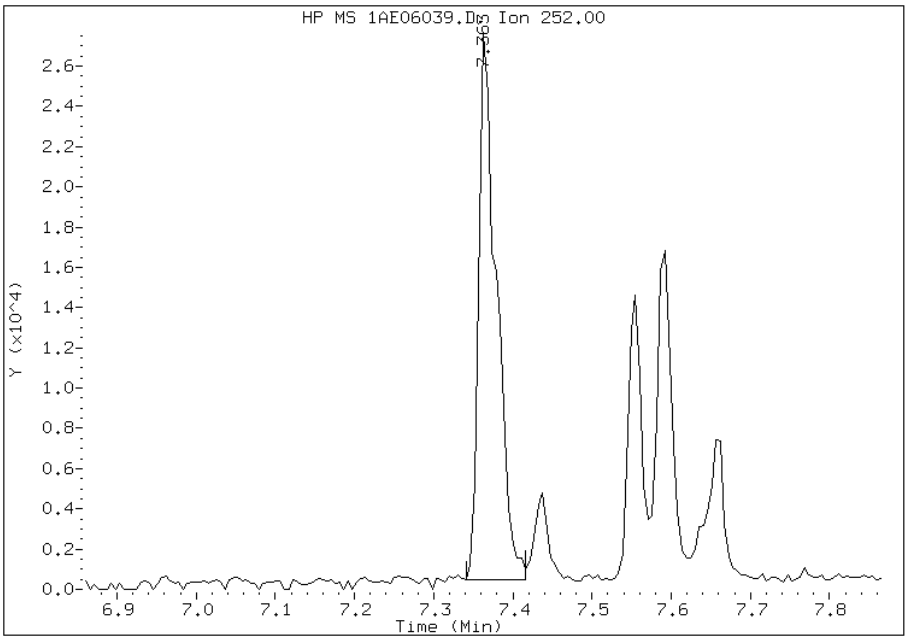
Processing Integration Results

RT: 7.36

Response: 41834

Amount: 1

Conc: 339



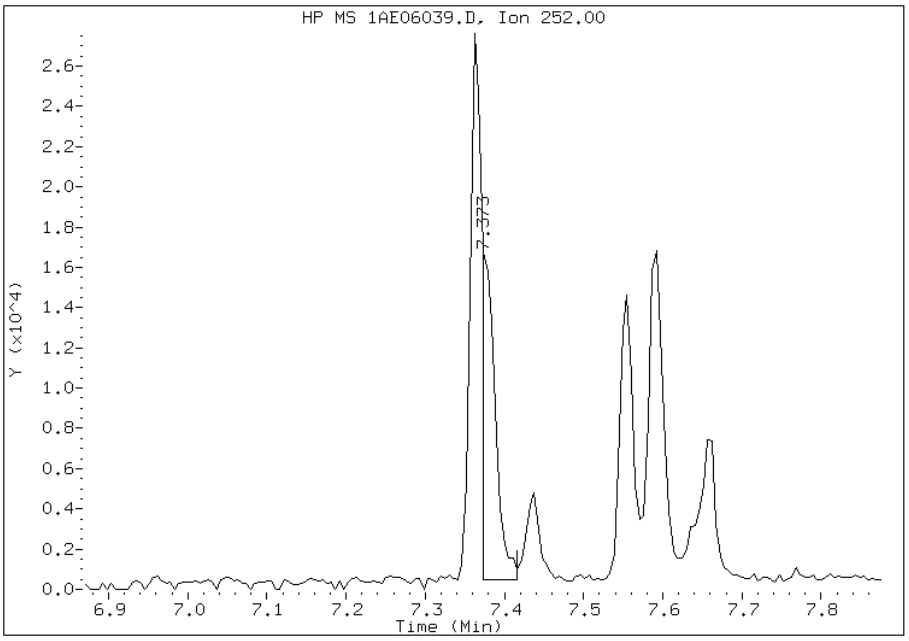
Manual Integration Results

RT: 7.37

Response: 19027

Amount: 0

Conc: 154



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06039.D
Inj. Date and Time: 06-MAY-2013 20:27
Instrument ID: BSMA5973.i
Client ID: CV0964A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

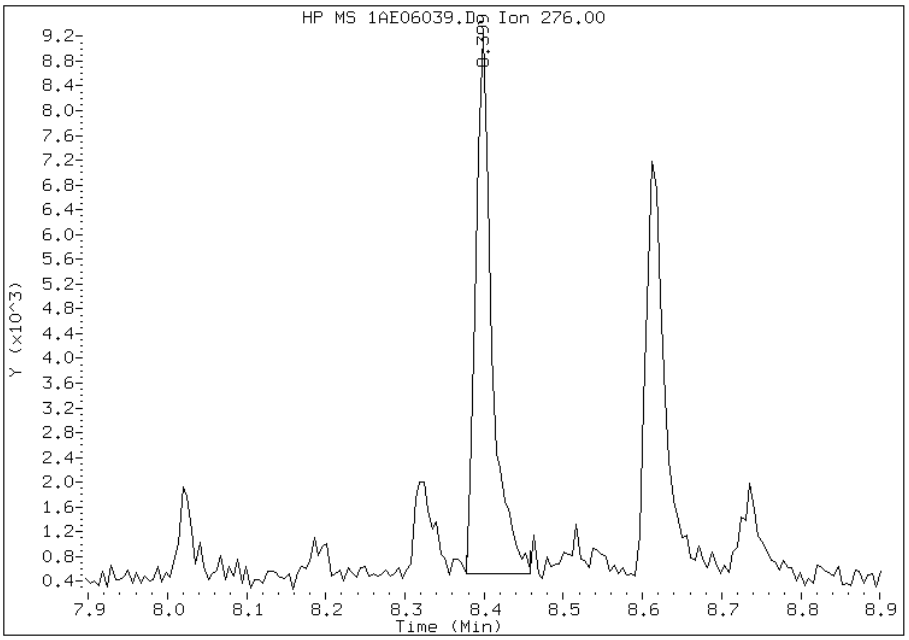
Processing Integration Results

RT: 8.40

Response: 12403

Amount: 0

Conc: 145



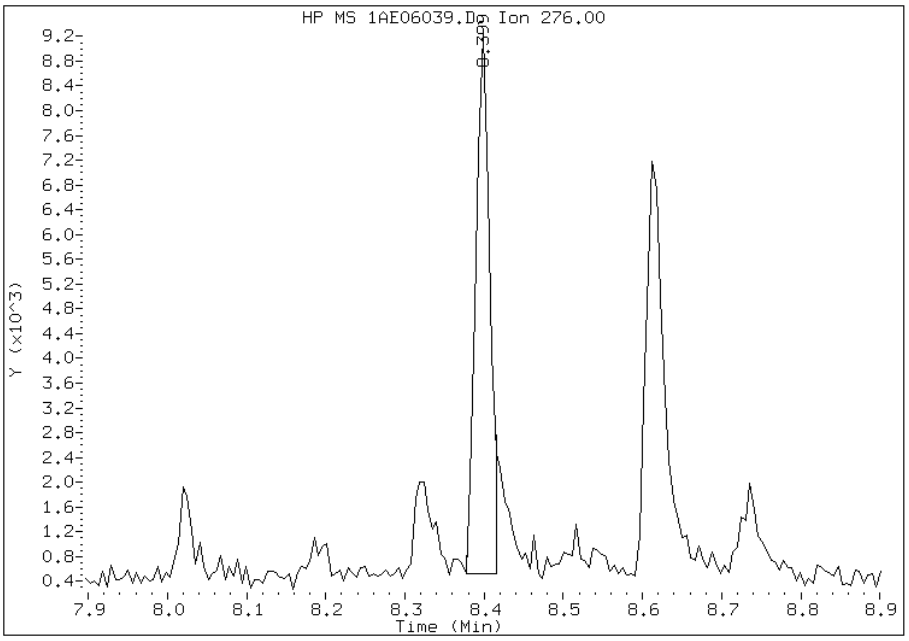
Manual Integration Results

RT: 8.40

Response: 10591

Amount: 0

Conc: 124



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0964B-CS-SP | Lab Sample ID: 680-89896-16

Matrix: Solid | Lab File ID: 1AE06040.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 13:50

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 14.97(g) | Date Analyzed: 05/06/2013 20:43

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

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

% Moisture: 13.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	44	J	120	23
208-96-8	Acenaphthylene	140		46	5.8
120-12-7	Anthracene	260		9.8	4.9
56-55-3	Benzo[a]anthracene	820		9.3	4.5
50-32-8	Benzo[a]pyrene	600		12	6.0
205-99-2	Benzo[b]fluoranthene	830		14	7.1
191-24-2	Benzo[g,h,i]perylene	280		23	5.1
207-08-9	Benzo[k]fluoranthene	410		9.3	4.2
218-01-9	Chrysene	650		10	5.2
53-70-3	Dibenz(a,h)anthracene	110		23	4.8
206-44-0	Fluoranthene	1400		23	4.6
86-73-7	Fluorene	60		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	320		23	8.2
90-12-0	1-Methylnaphthalene	73		46	5.1
91-57-6	2-Methylnaphthalene	130		46	8.2
91-20-3	Naphthalene	120		46	5.1
85-01-8	Phenanthrene	720		9.3	4.5
129-00-0	Pyrene	870		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	53		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06040.D
Lab Smp Id: 680-89896-A-16-A Client Smp ID: CV0964B-CS-SP
Inj Date : 06-MAY-2013 20:43
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-16-a
Misc Info : 680-89896-A-16-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	13.696	% 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	2.552	2.544	(1.000)	1408932	40.0000	
*	6 Acenaphthene-d10	164	3.583	3.575	(1.000)	733989	40.0000	
*	10 Phenanthrene-d10	188	4.534	4.521	(1.000)	1048973	40.0000	
$	14 o-Terphenyl	230	4.828	4.820	(1.065)	79535	5.29771	410.0470
*	18 Chrysene-d12	240	6.564	6.535	(1.000)	1165498	40.0000	(H)
*	23 Perylene-d12	264	7.659	7.630	(1.000)	1298293	40.0000	
	2 Naphthalene	128	2.563	2.555	(1.004)	50585	1.52460	118.0053
	3 2-Methylnaphthalene	141	2.969	2.961	(1.163)	27427	1.62654	125.8957
	4 1-Methylnaphthalene	142	3.022	3.014	(1.184)	19148	0.94740	73.3294
	5 Acenaphthylene	152	3.492	3.484	(0.975)	61220	1.77504	137.3893
	7 Acenaphthene	154	3.599	3.591	(1.004)	11293	0.57016	44.1310
	9 Fluorene	166	3.909	3.901	(1.091)	17631	0.78111	60.4582
	11 Phenanthrene	178	4.544	4.537	(1.002)	241874	9.30734	720.3953
	12 Anthracene	178	4.582	4.569	(1.011)	94013	3.39610	262.8608

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.715	4.702	(1.040)	28371	1.13986	88.2260
15 Fluoranthene	202	5.415	5.397	(1.194)	523827	17.5215	1356.1760
16 Pyrene	202	5.581	5.562	(0.850)	419488	11.1972	866.6747(H)
17 Benzo(a)anthracene	228	6.558	6.524	(0.999)	347379	10.6052	820.8516(H)
19 Chrysene	228	6.580	6.551	(1.002)	311404	8.44950	653.9981(H)
20 Benzo(b)fluoranthene	252	7.381	7.347	(0.964)	370108	10.7853	834.7886(M)
21 Benzo(k)fluoranthene	252	7.386	7.368	(0.964)	226404	5.31814	411.6283(M)
22 Benzo(a)pyrene	252	7.605	7.576	(0.993)	271492	7.70356	596.2615
24 Indeno(1,2,3-cd)pyrene	276	8.423	8.388	(1.100)	121141	4.10311	317.5840(M)
25 Dibenzo(a,h)anthracene	278	8.444	8.414	(1.103)	43450	1.43570	111.1240
26 Benzo(g,h,i)perylene	276	8.647	8.602	(1.129)	115763	3.64623	282.2211

QC Flag Legend

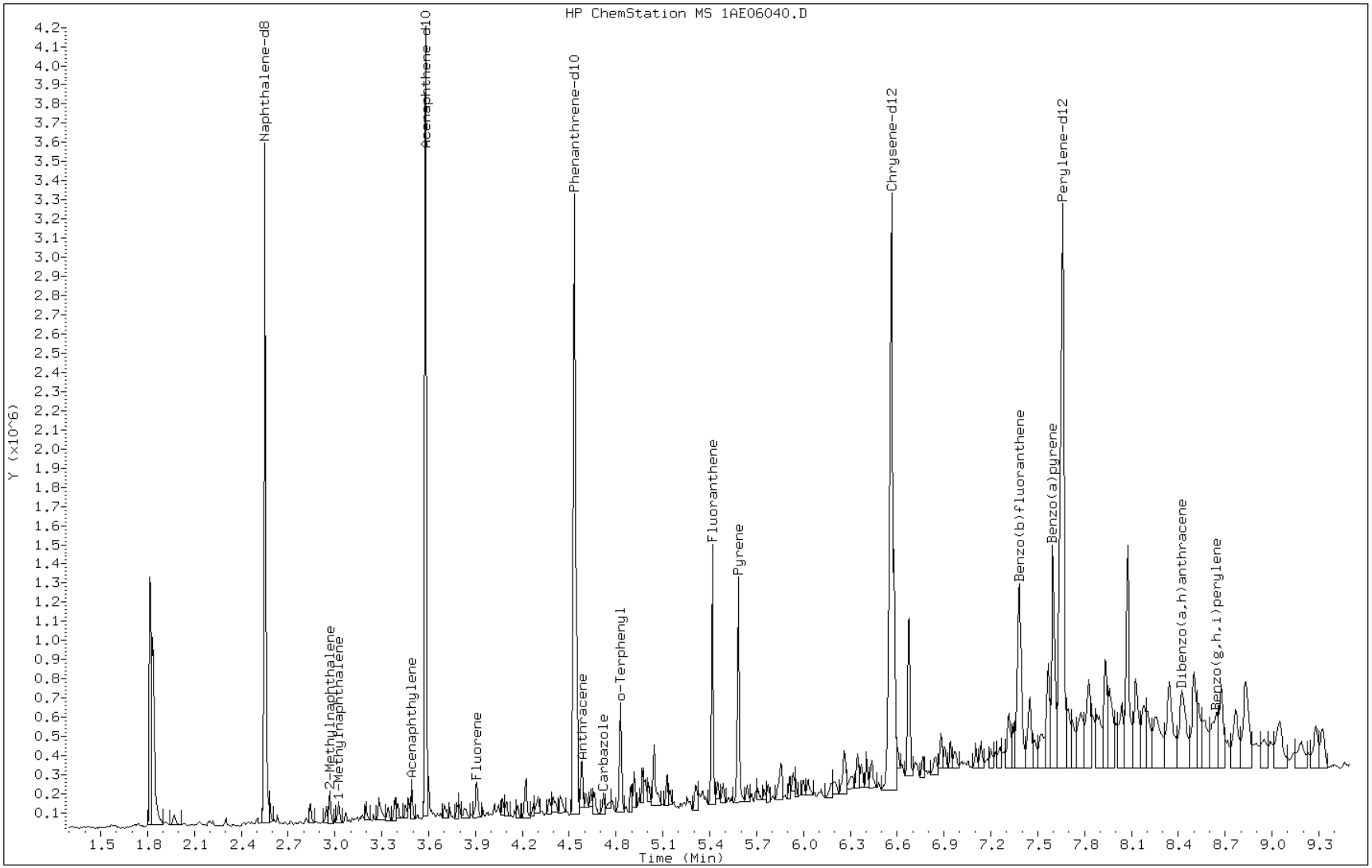
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC



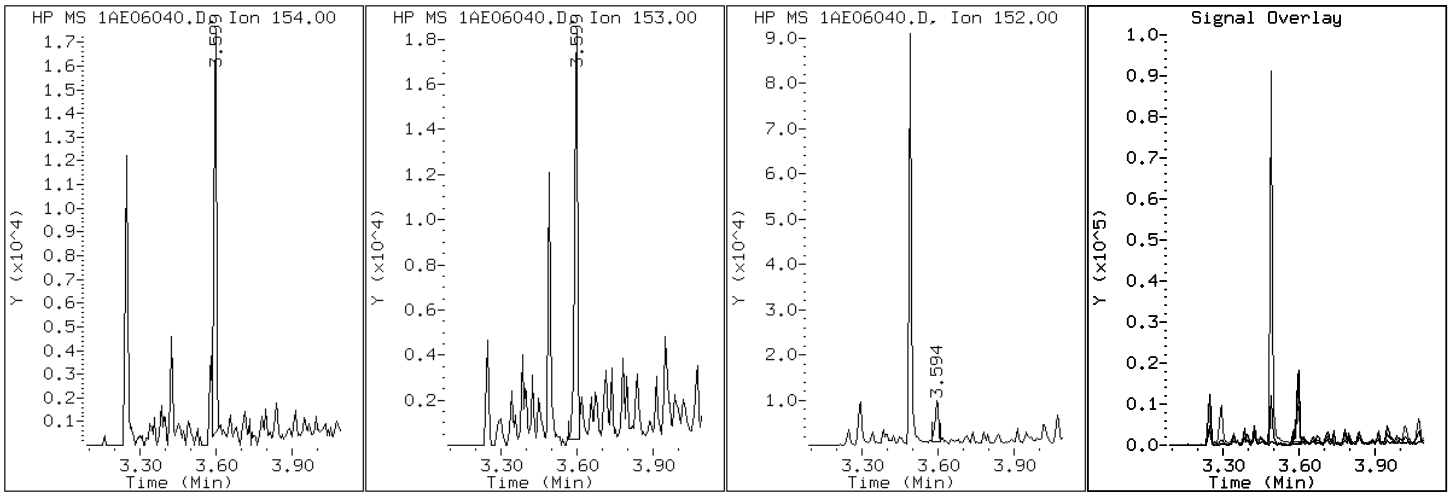
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

7 Acenaphthene



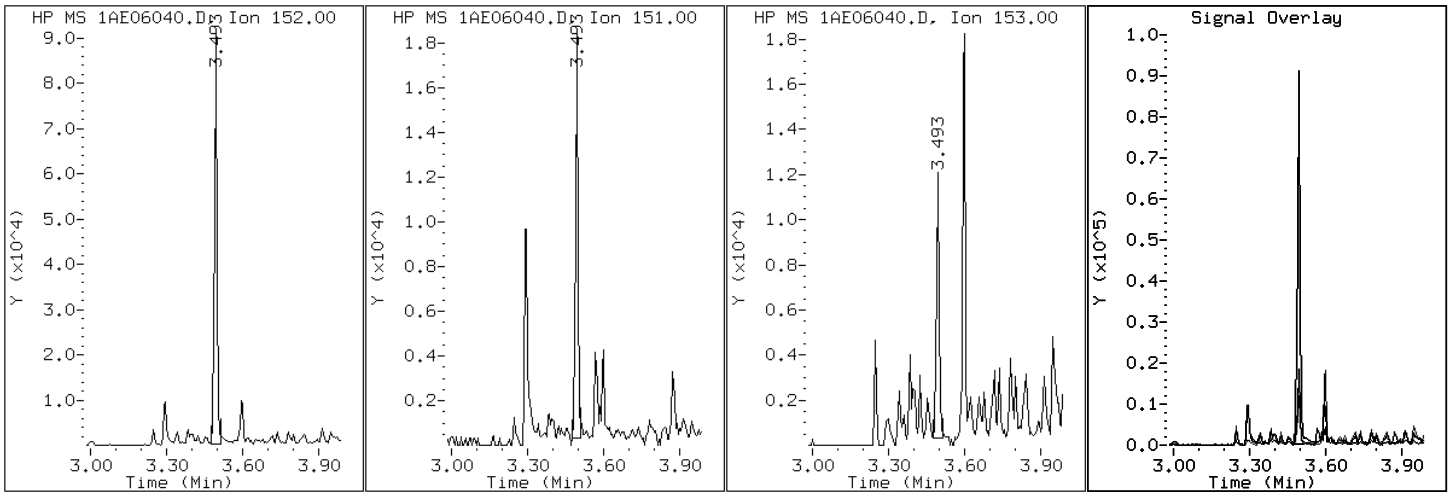
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

5 Acenaphthylene



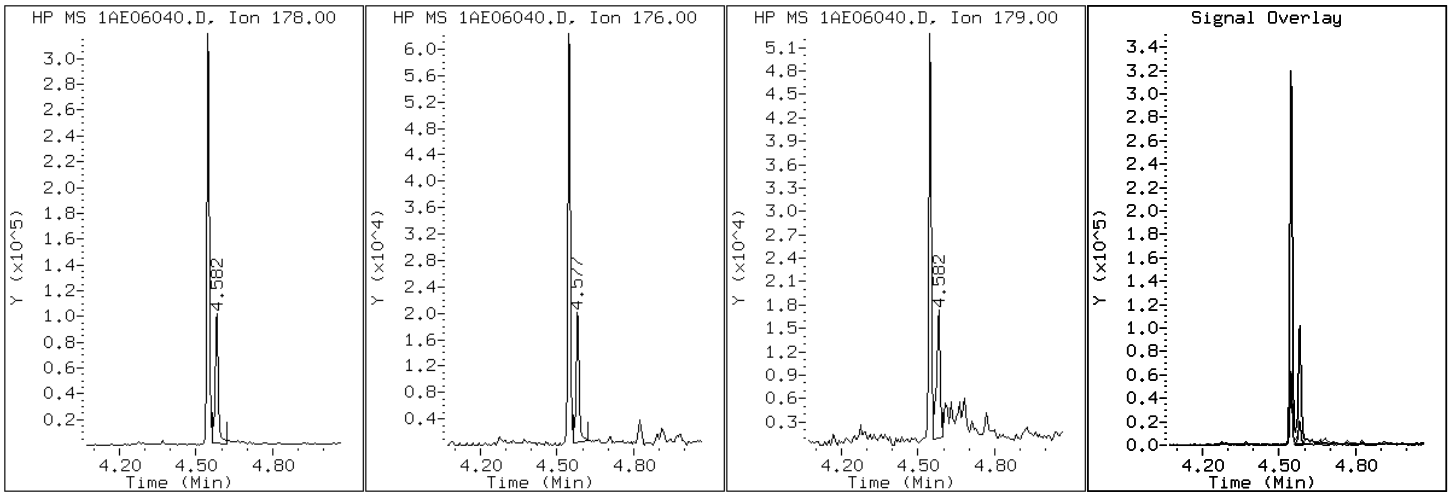
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

12 Anthracene



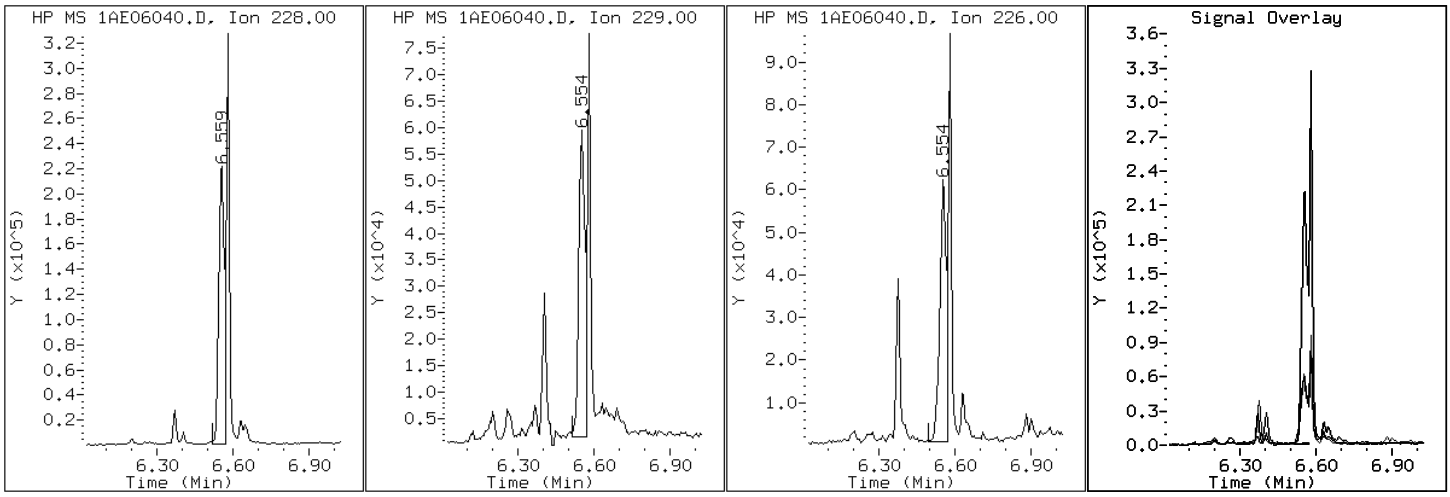
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

17 Benzo(a)anthracene



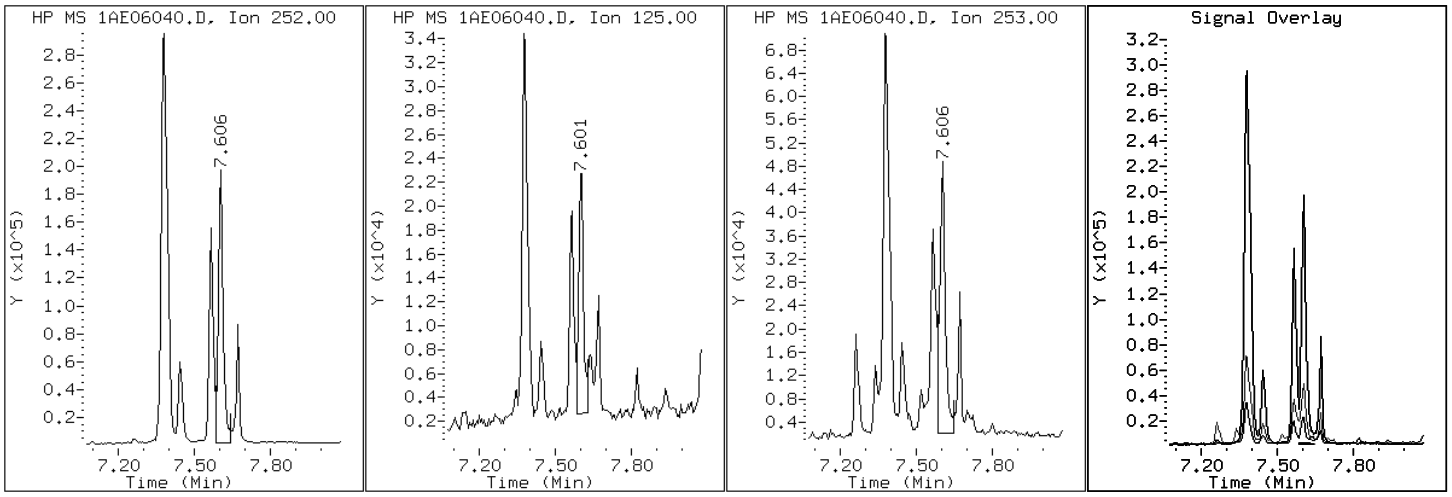
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

22 Benzo(a)pyrene



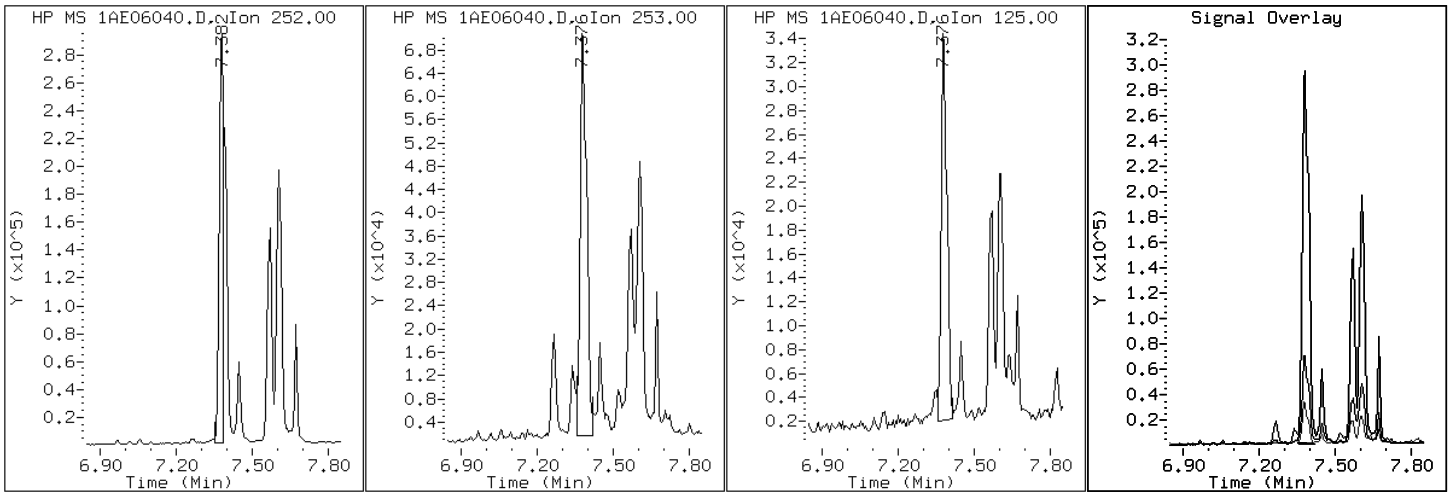
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

20 Benzo(b)fluoranthene



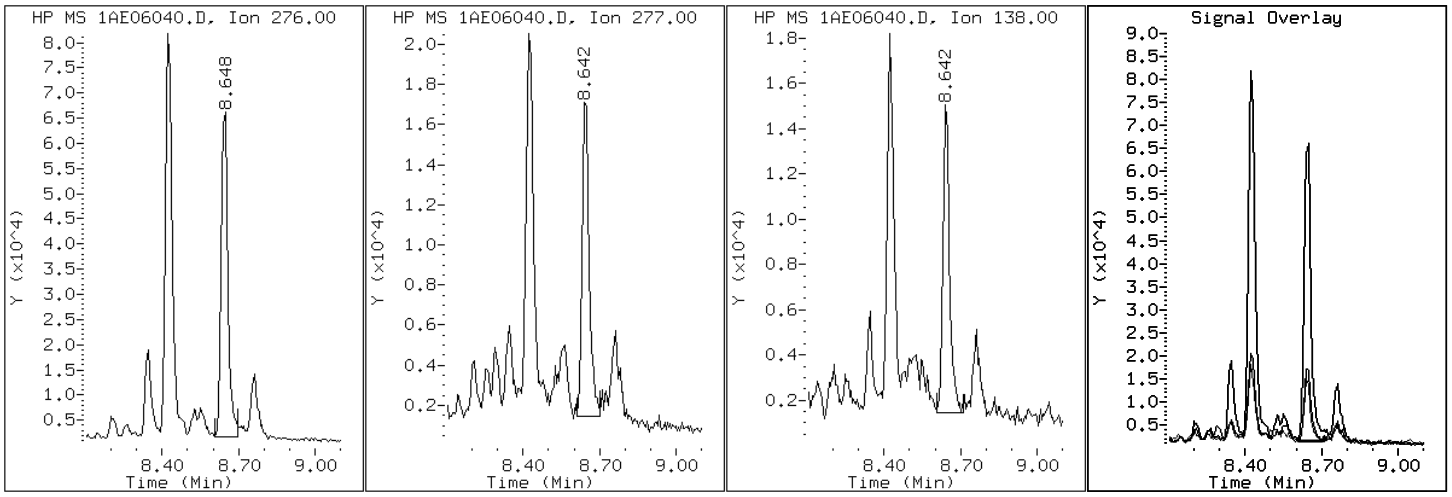
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

26 Benzo(g,h,i)perylene



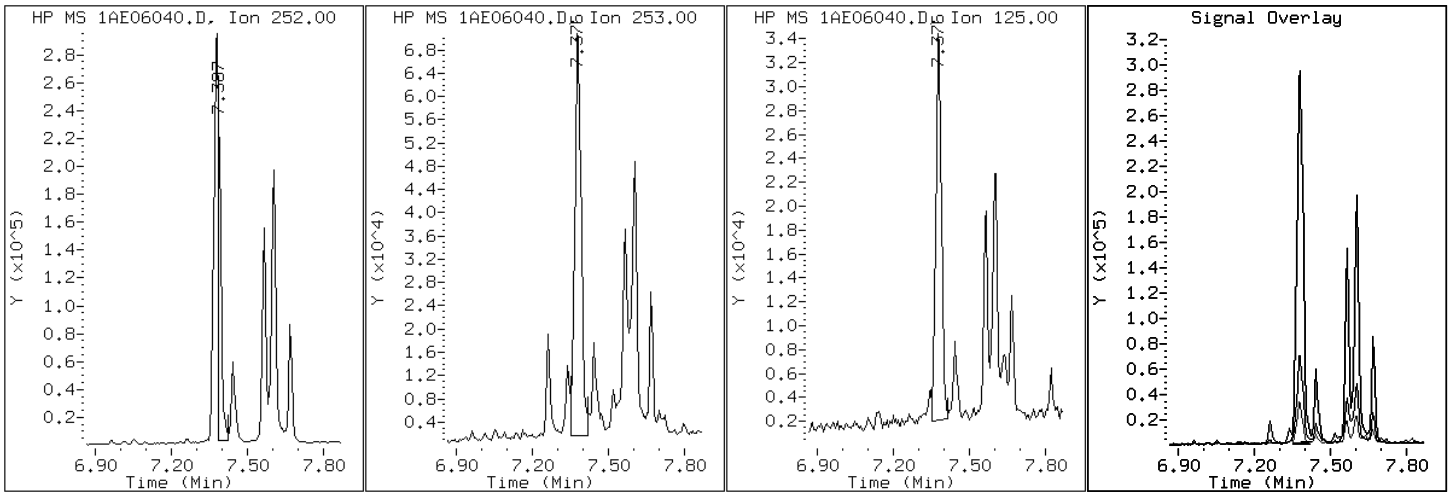
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

21 Benzo(k)fluoranthene



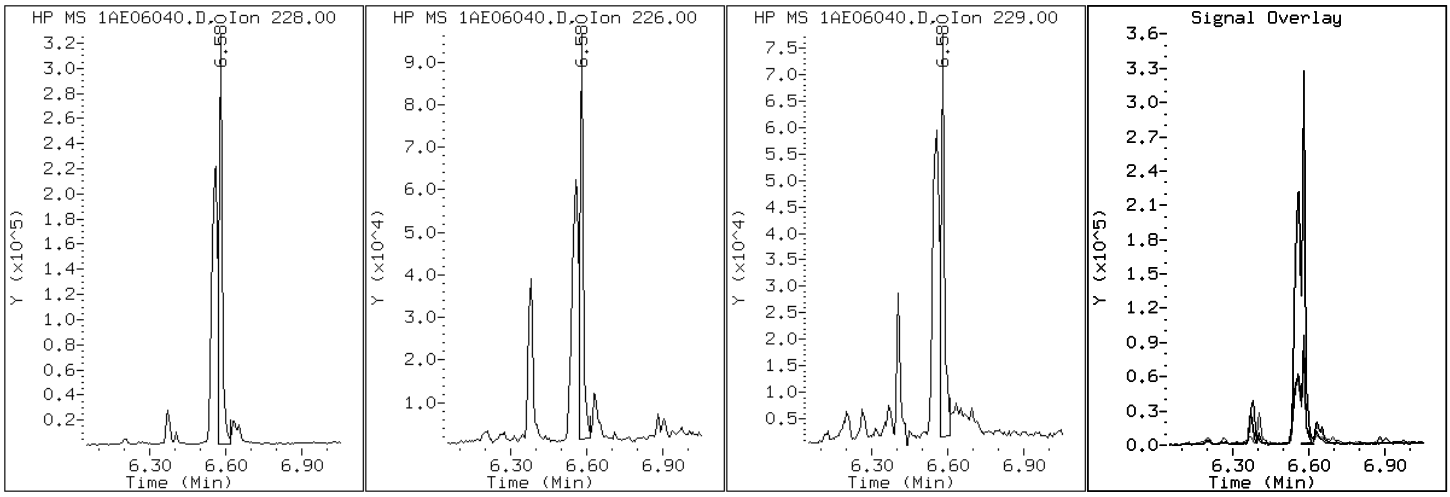
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

19 Chrysene



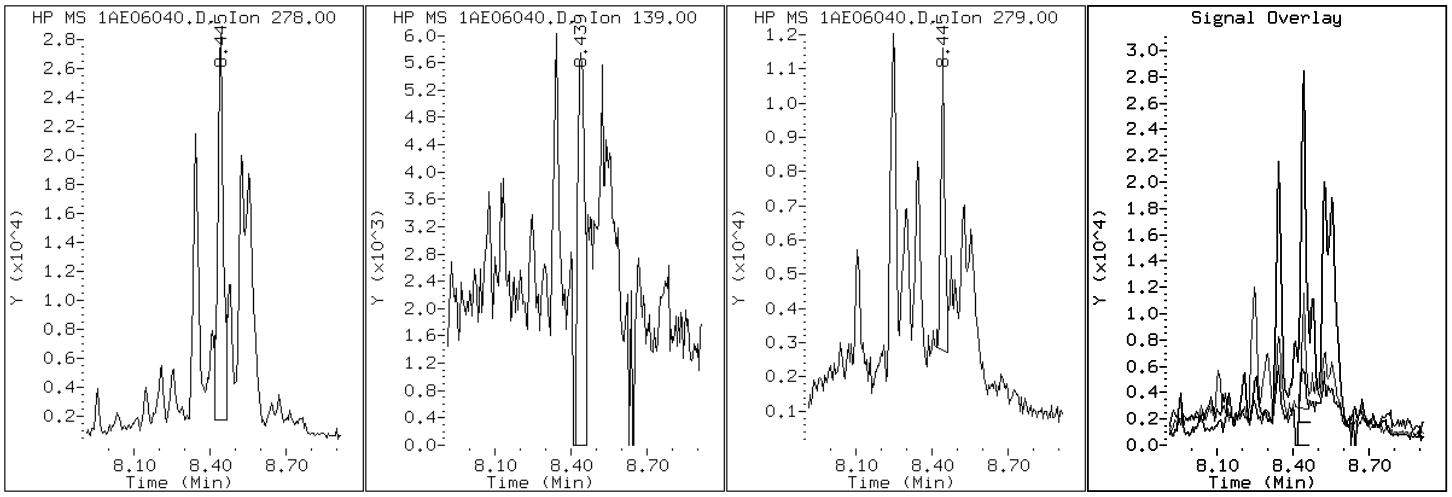
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

25 Dibenzo(a,h)anthracene



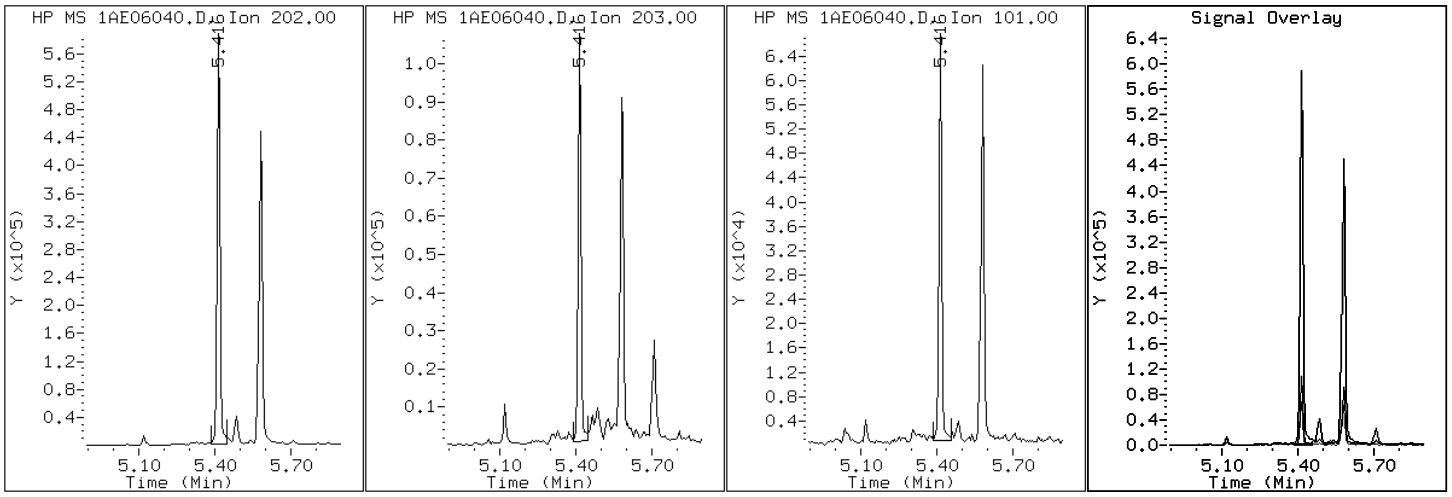
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

15 Fluoranthene



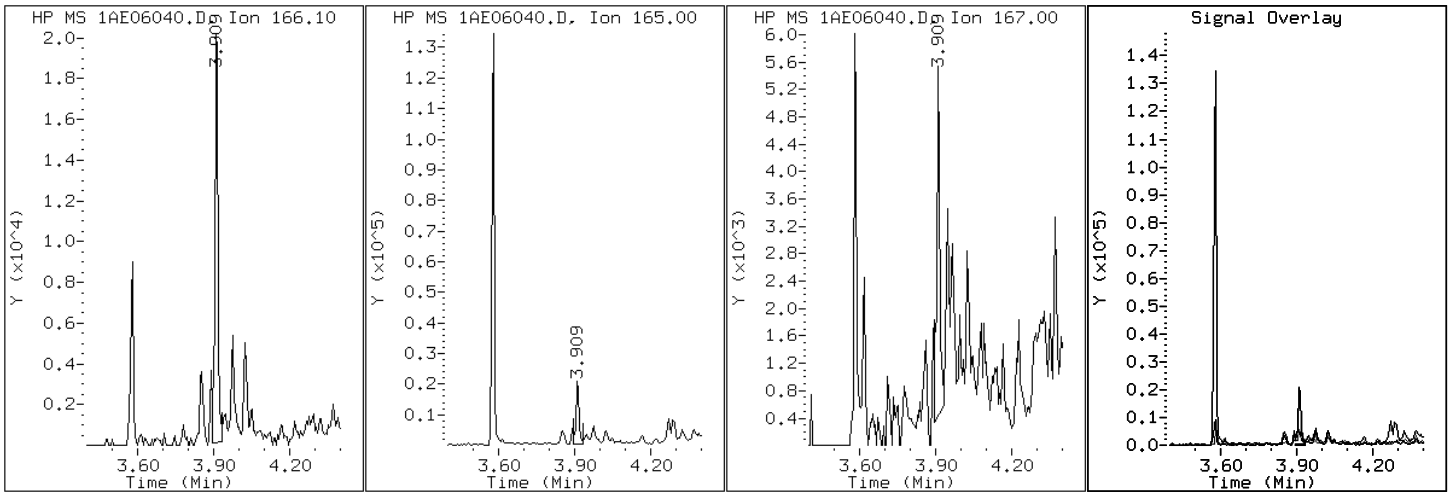
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

9 Fluorene



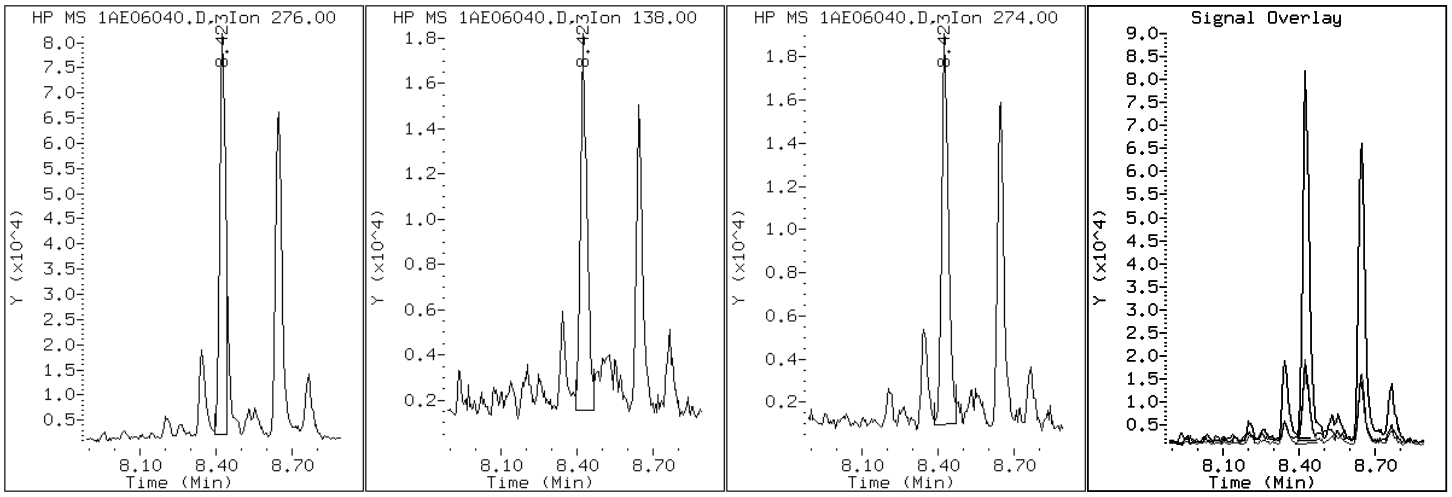
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

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



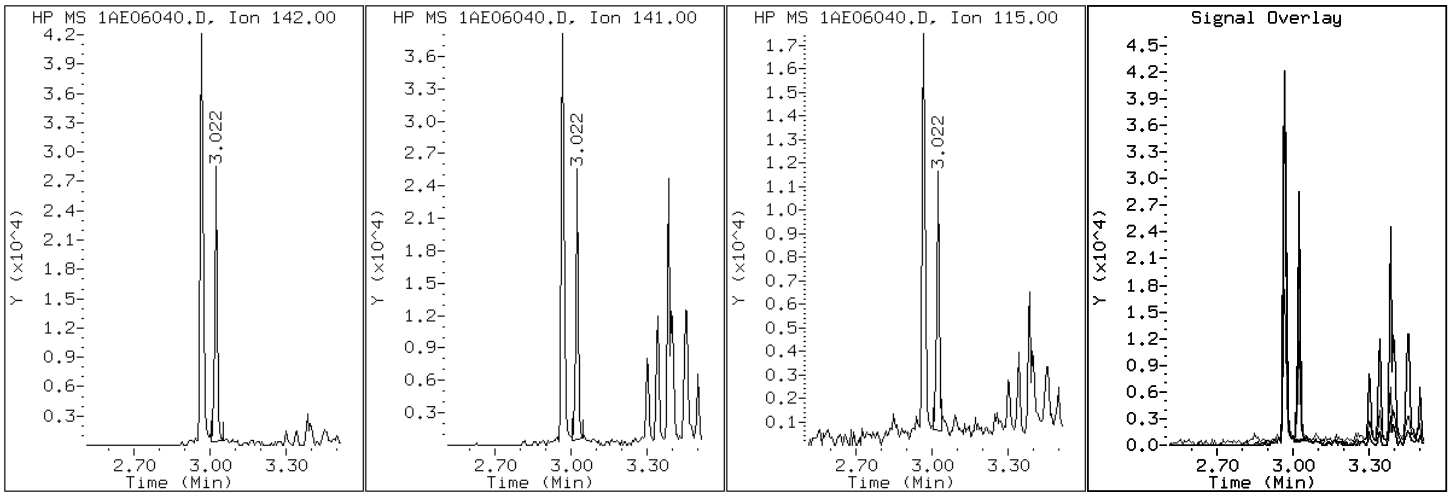
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

4 1-Methylnaphthalene



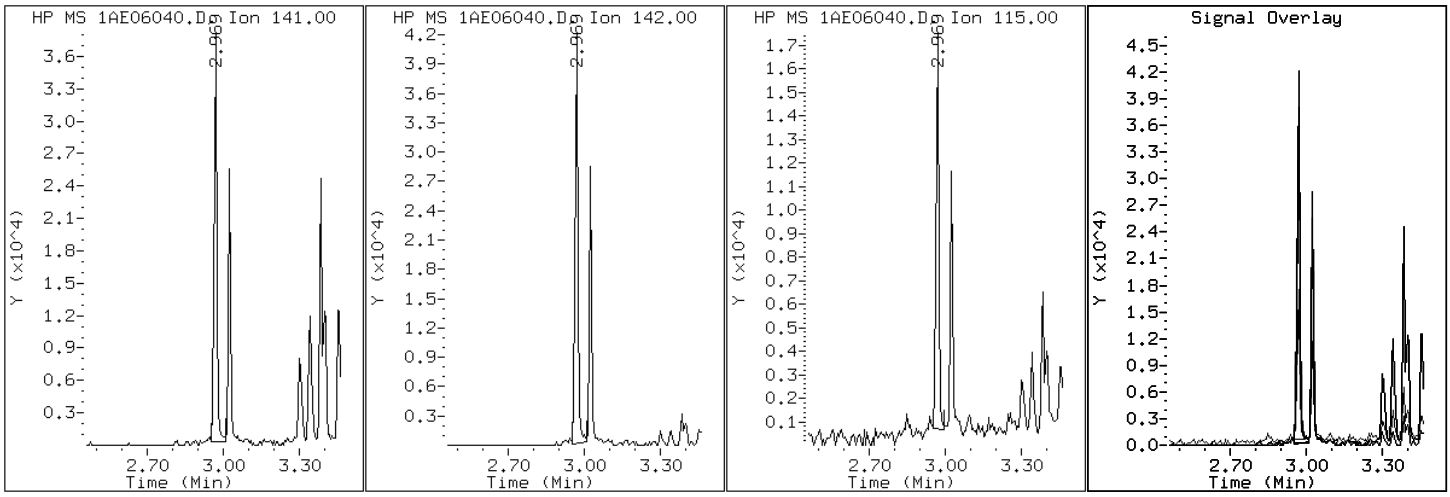
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

3 2-Methylnaphthalene



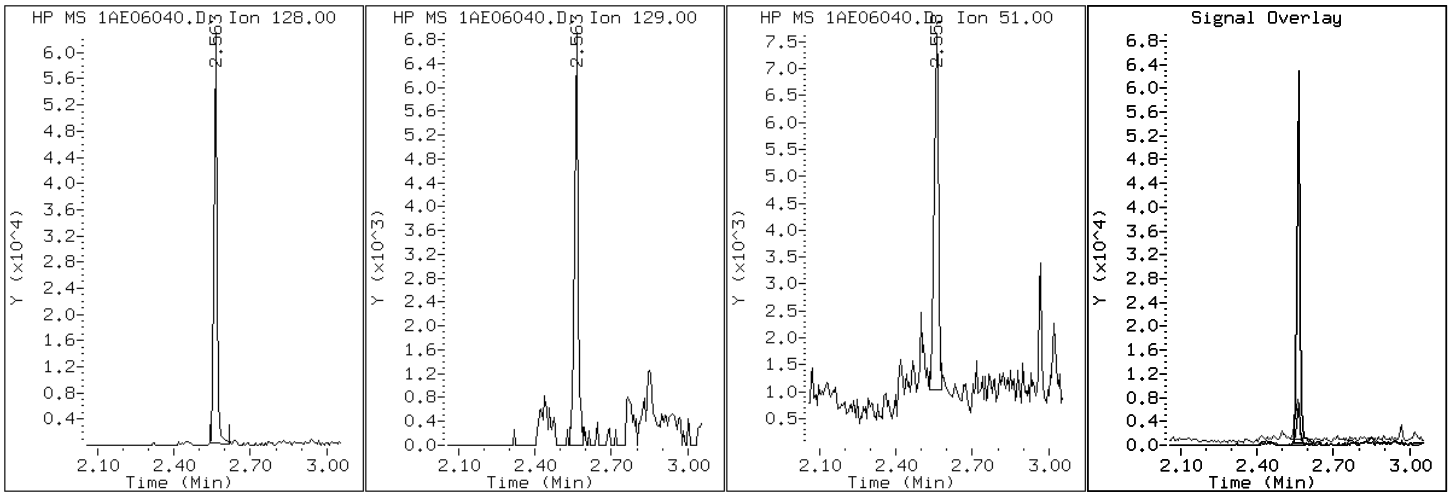
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

2 Naphthalene



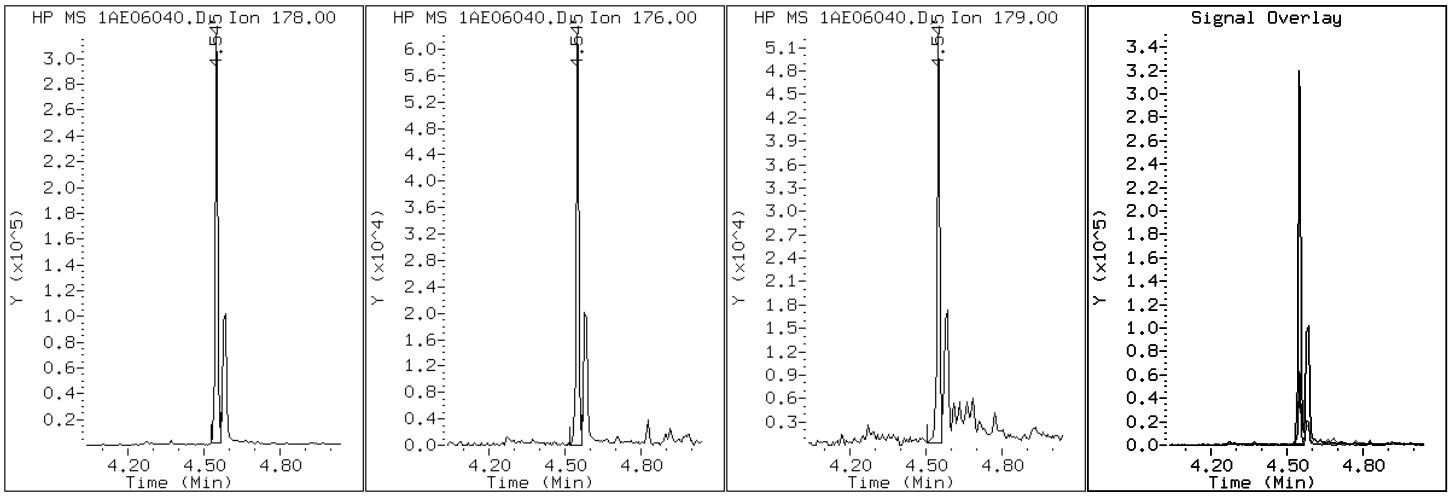
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

11 Phenanthrene



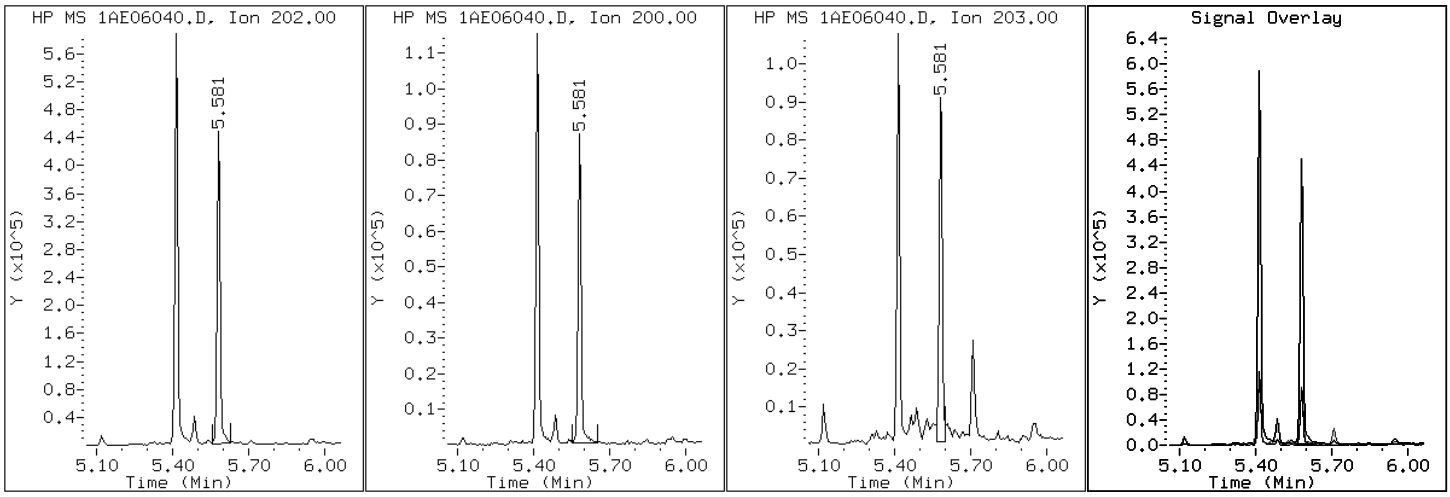
Data File: 1AE06040.D

Date: 06-MAY-2013 20:43

Client ID: CV0964B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89896-a-16-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06040.D
Inj. Date and Time: 06-MAY-2013 20:43
Instrument ID: BSMA5973.i
Client ID: CV0964B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

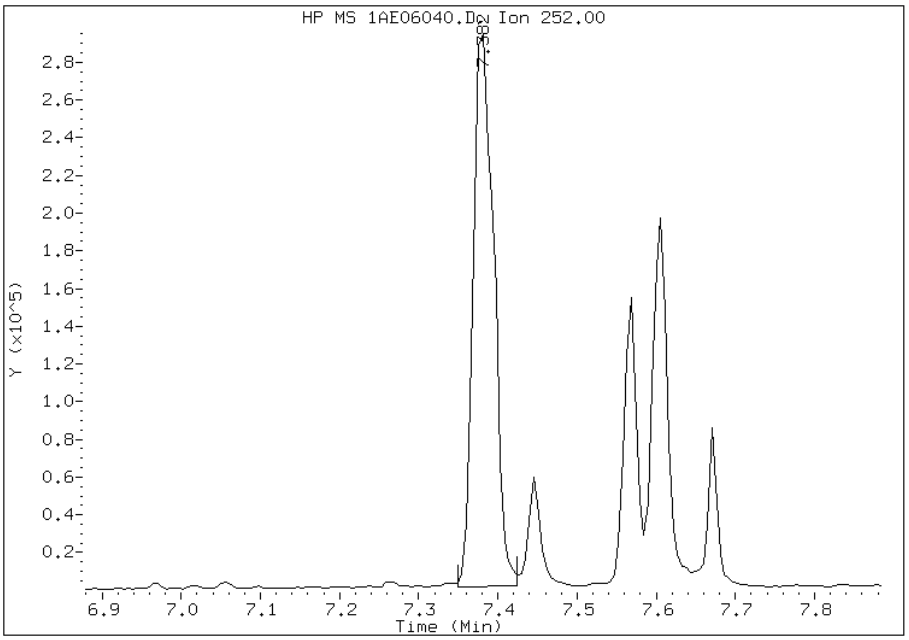
Processing Integration Results

RT: 7.38

Response: 524320

Amount: 15

Conc: 1183



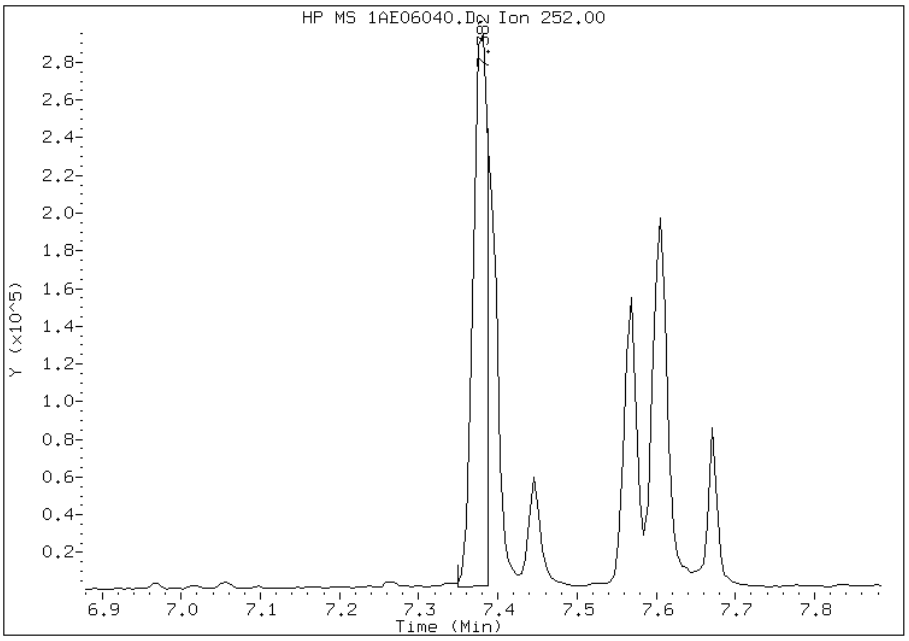
Manual Integration Results

RT: 7.38

Response: 370108

Amount: 11

Conc: 835



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06040.D
Inj. Date and Time: 06-MAY-2013 20:43
Instrument ID: BSMA5973.i
Client ID: CV0964B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

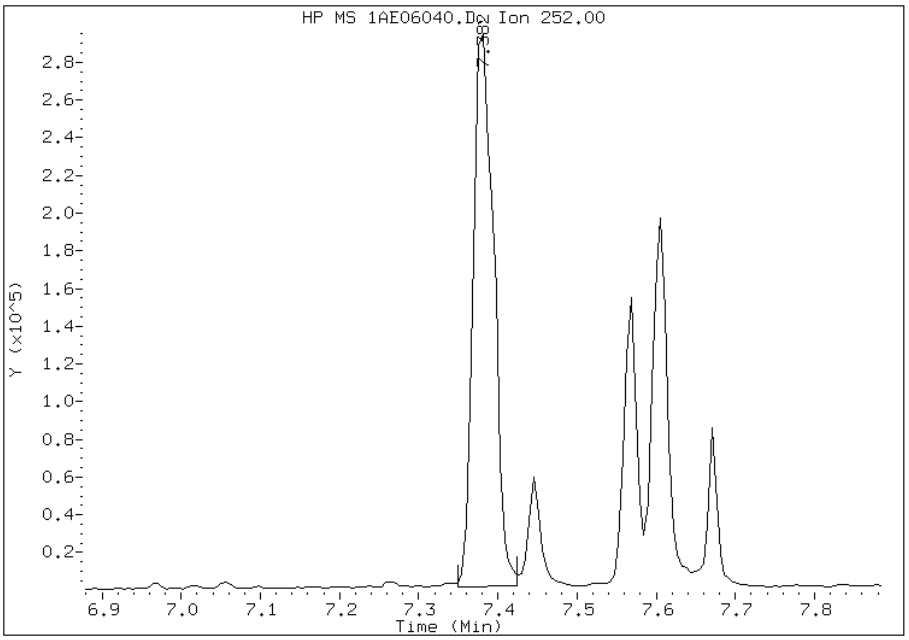
Processing Integration Results

RT: 7.38

Response: 524320

Amount: 12

Conc: 953



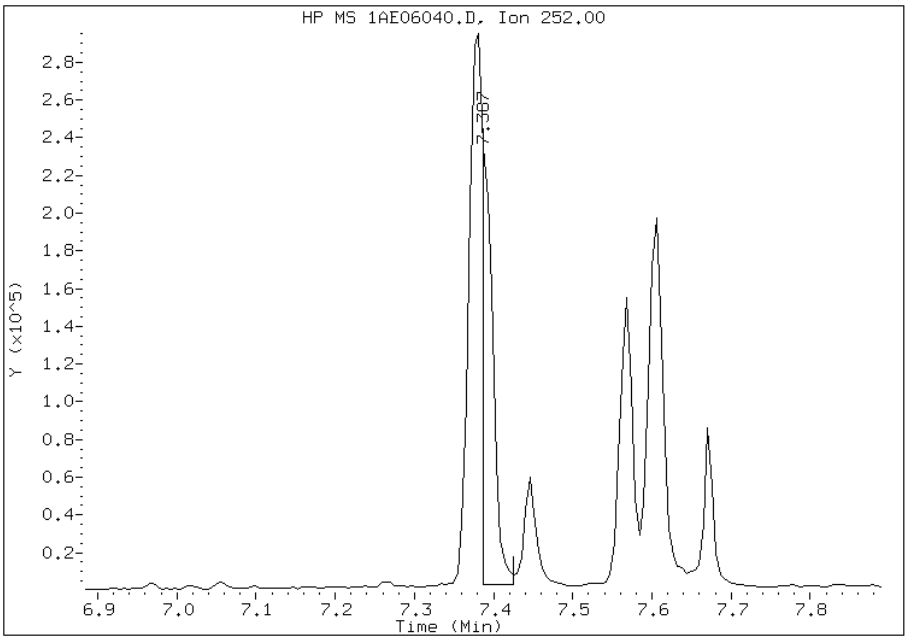
Manual Integration Results

RT: 7.39

Response: 226404

Amount: 5

Conc: 412



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06040.D
Inj. Date and Time: 06-MAY-2013 20:43
Instrument ID: BSMA5973.i
Client ID: CV0964B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

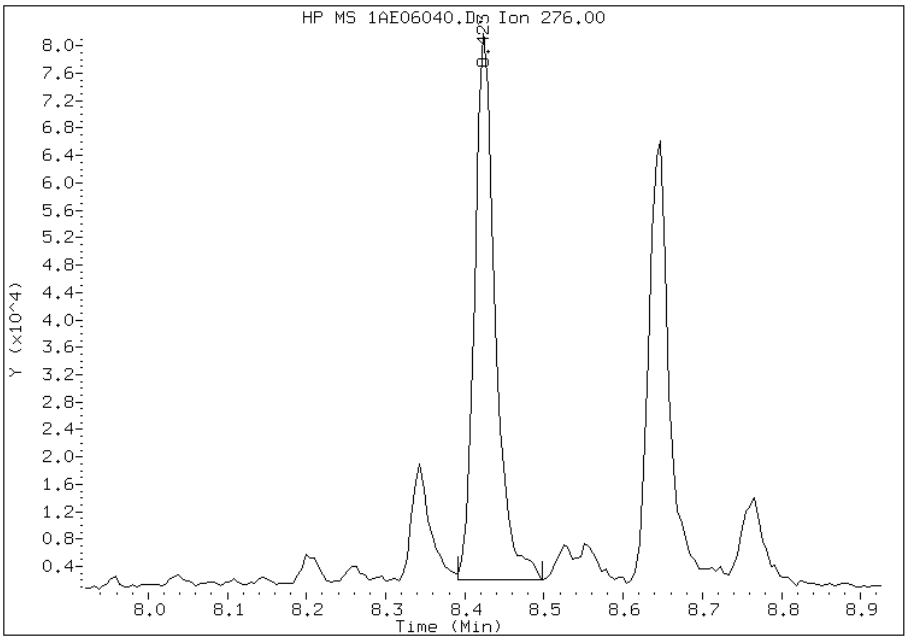
Processing Integration Results

RT: 8.42

Response: 142219

Amount: 5

Conc: 373



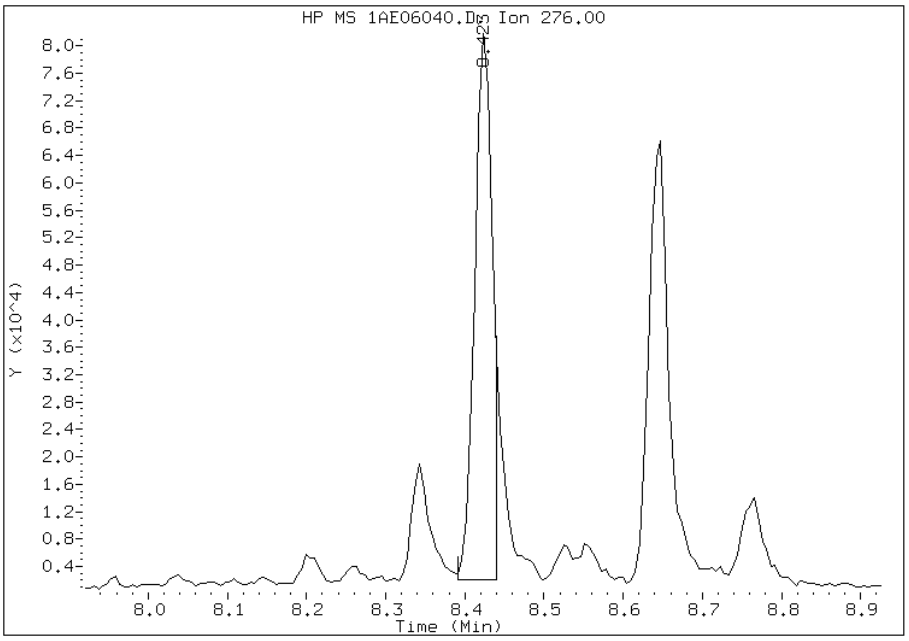
Manual Integration Results

RT: 8.42

Response: 121141

Amount: 4

Conc: 318



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0988A-CS | Lab Sample ID: 680-89896-17

Matrix: Solid | Lab File ID: 1AE06041.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 13:10

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 15.14(g) | Date Analyzed: 05/06/2013 20:58

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

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

% Moisture: 22.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	27	J	51	6.4
120-12-7	Anthracene	57		11	5.4
56-55-3	Benzo[a]anthracene	290		10	5.0
50-32-8	Benzo[a]pyrene	250		13	6.7
205-99-2	Benzo[b]fluoranthene	360		16	7.8
191-24-2	Benzo[g,h,i]perylene	200		26	5.6
207-08-9	Benzo[k]fluoranthene	170		10	4.6
218-01-9	Chrysene	270		12	5.8
53-70-3	Dibenz(a,h)anthracene	55		26	5.3
206-44-0	Fluoranthene	420		26	5.1
86-73-7	Fluorene	14	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	190		26	9.1
90-12-0	1-Methylnaphthalene	47	J	51	5.6
91-57-6	2-Methylnaphthalene	63		51	9.1
91-20-3	Naphthalene	56		51	5.6
85-01-8	Phenanthrene	240		10	5.0
129-00-0	Pyrene	380		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	34		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06041.D
Lab Smp Id: 680-89896-A-17-A Client Smp ID: CV0988A-CS
Inj Date : 06-MAY-2013 20:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-17-a
Misc Info : 680-89896-A-17-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 41
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	22.831	% 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)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.551	2.544	(1.000)	1497902	40.0000	
*	6 Acenaphthene-d10	164	3.582	3.575	(1.000)	777636	40.0000	
*	10 Phenanthrene-d10	188	4.533	4.521	(1.000)	1146395	40.0000	
$	14 o-Terphenyl	230	4.827	4.820	(1.065)	55951	3.41011	291.8766
*	18 Chrysene-d12	240	6.558	6.535	(1.000)	1033505	40.0000	
*	23 Perylene-d12	264	7.653	7.630	(1.000)	1146181	40.0000	
	2 Naphthalene	128	2.562	2.555	(1.004)	23070	0.65402	55.9783
	3 2-Methylnaphthalene	141	2.968	2.961	(1.163)	13228	0.73788	63.1567
	4 1-Methylnaphthalene	142	3.022	3.014	(1.184)	11893	0.55349	47.3738
	5 Acenaphthylene	152	3.492	3.484	(0.975)	11408	0.31220	26.7219
	9 Fluorene	166	3.908	3.901	(1.091)	3987	0.16672	14.2700
	11 Phenanthrene	178	4.544	4.537	(1.002)	80738	2.84279	243.3188
	12 Anthracene	178	4.581	4.569	(1.011)	20042	0.66247	56.7015
	13 Carbazole	167	4.720	4.702	(1.041)	10029	0.36869	31.5570

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.415	5.397	(1.194)	161192	4.93351	422.2675
16 Pyrene	202	5.580	5.562	(0.851)	147295	4.43382	379.4980
17 Benzo(a)anthracene	228	6.553	6.524	(0.999)	96992	3.33926	285.8130
19 Chrysene	228	6.574	6.551	(1.002)	103041	3.15294	269.8655
20 Benzo(b)fluoranthene	252	7.370	7.347	(0.963)	126501	4.17557	357.3942(M)
21 Benzo(k)fluoranthene	252	7.381	7.368	(0.964)	75636	2.01244	172.2484(M)
22 Benzo(a)pyrene	252	7.594	7.576	(0.992)	91792	2.95025	252.5167
24 Indeno(1,2,3-cd)pyrene	276	8.412	8.388	(1.099)	56947	2.18480	187.0009(M)
25 Dibenzo(a,h)anthracene	278	8.433	8.414	(1.102)	17189	0.64334	55.0648
26 Benzo(g,h,i)perylene	276	8.631	8.602	(1.128)	64475	2.30030	196.8868

QC Flag Legend

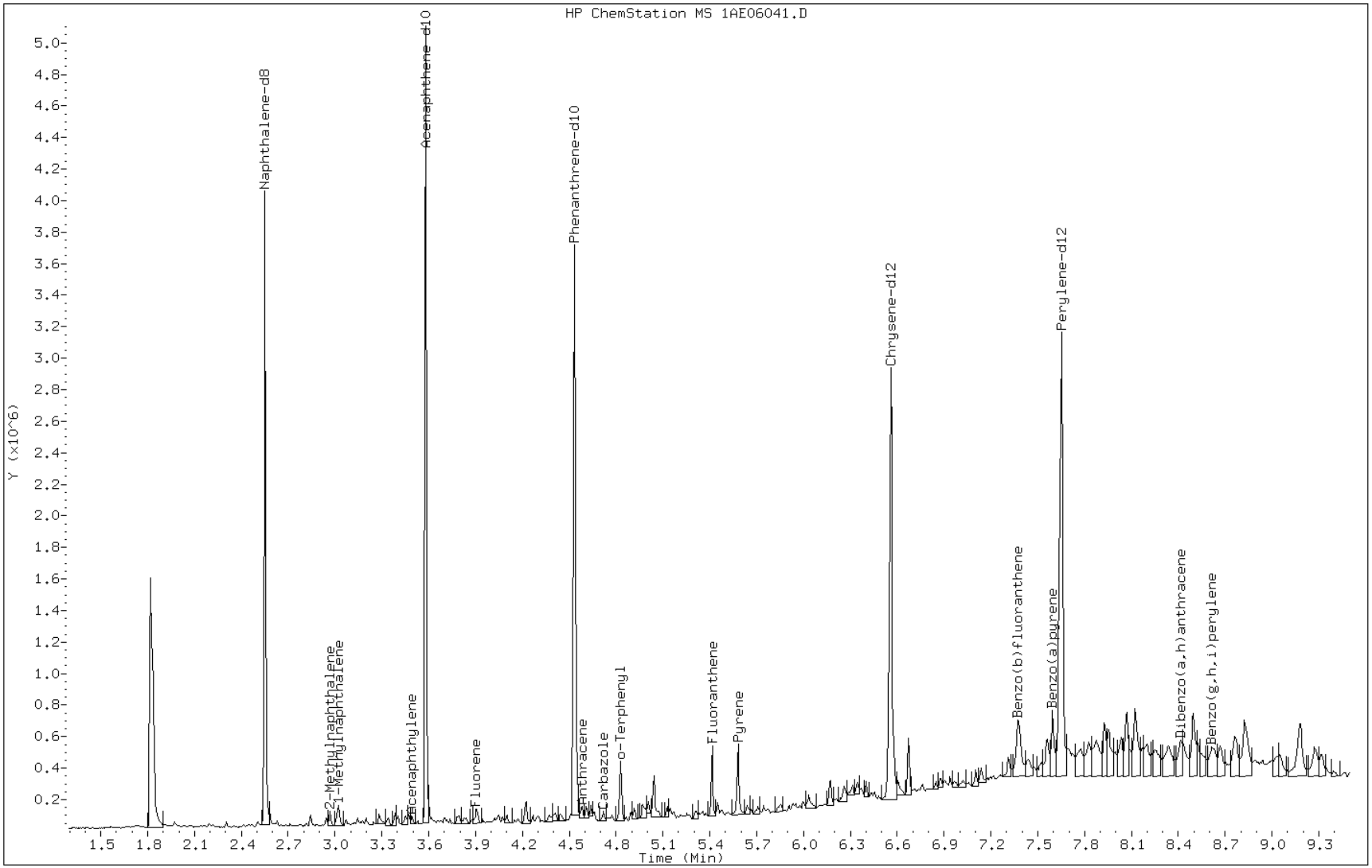
M - Compound response manually integrated.

Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC



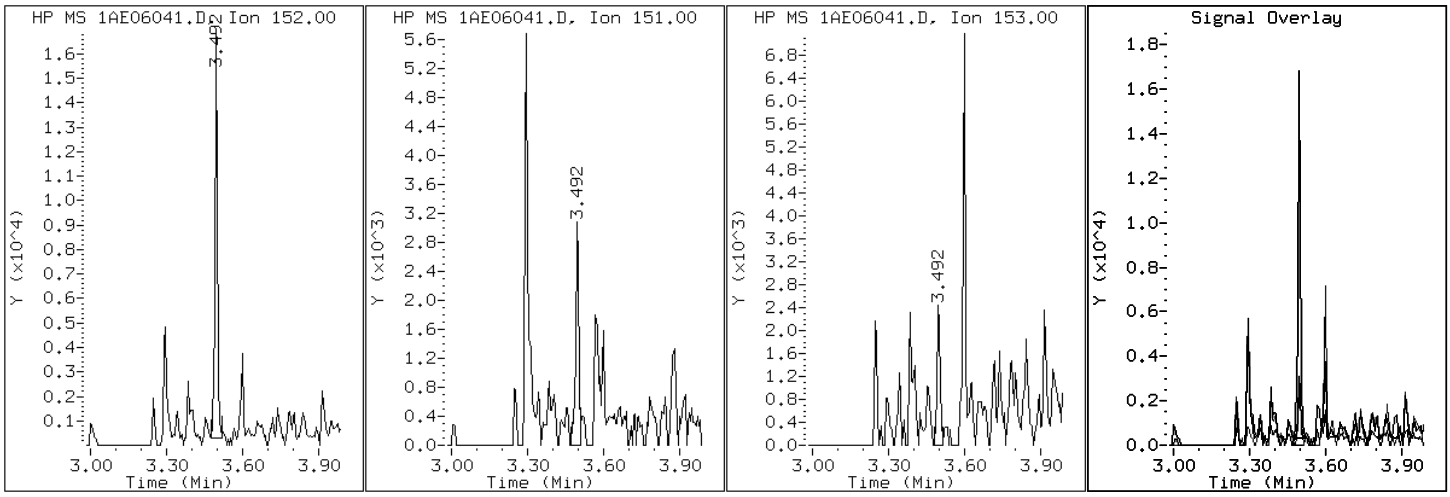
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

5 Acenaphthylene



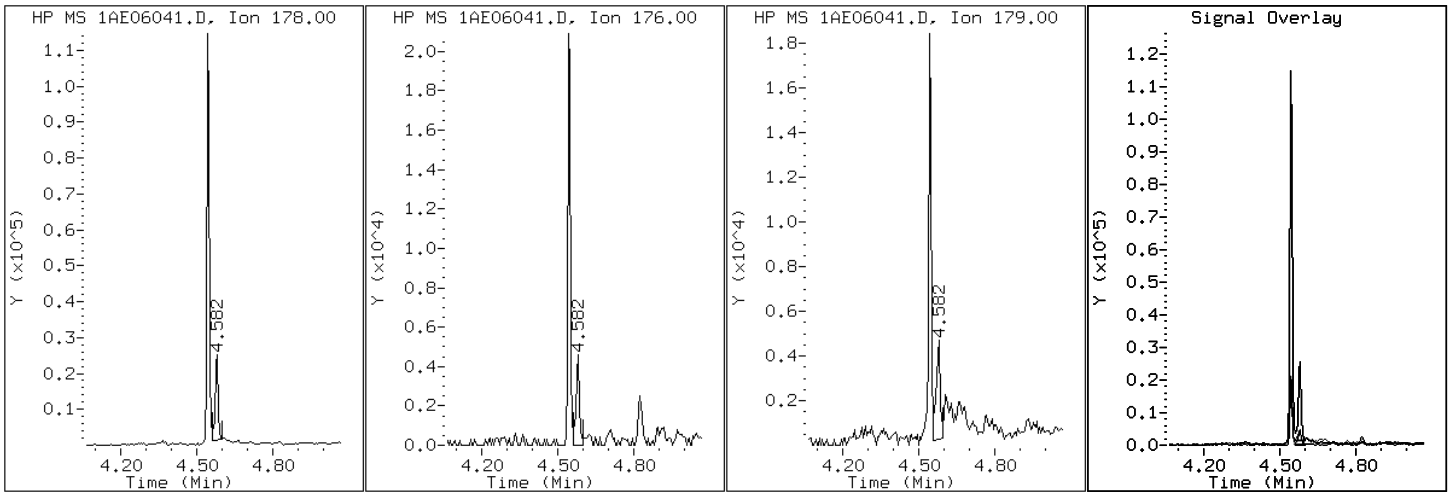
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

12 Anthracene



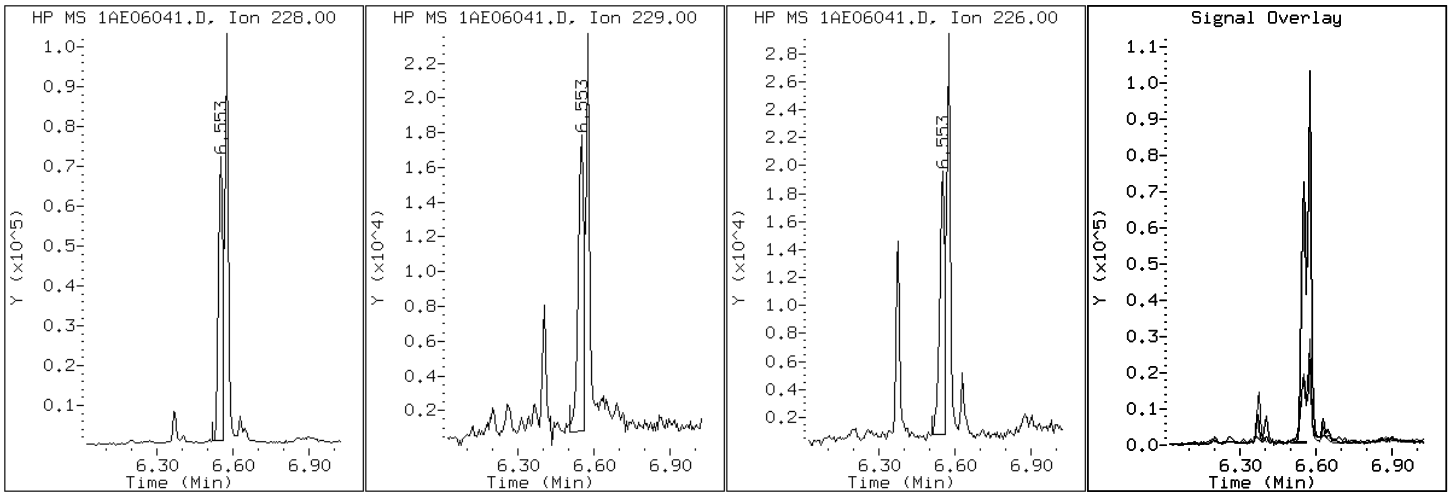
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

17 Benzo(a)anthracene



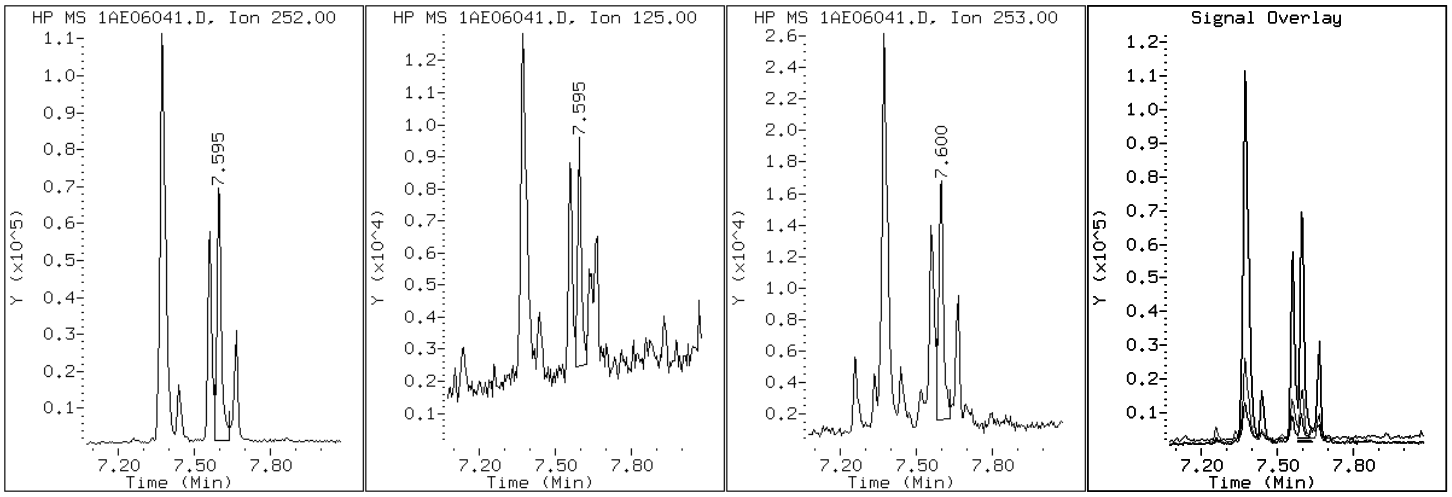
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

22 Benzo(a)pyrene



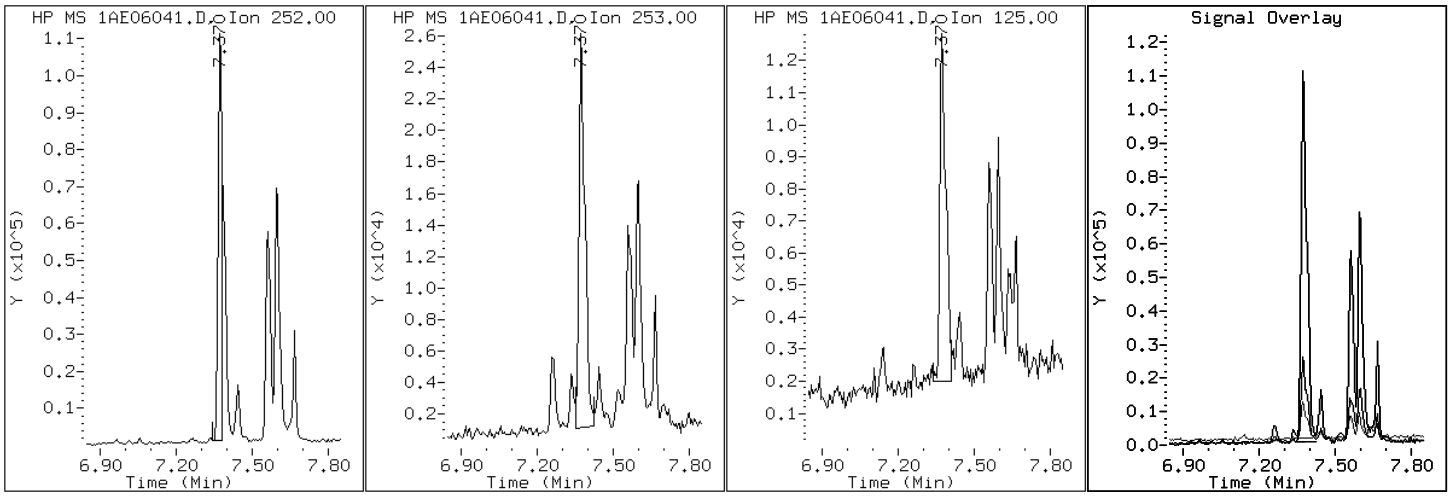
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

20 Benzo(b)fluoranthene



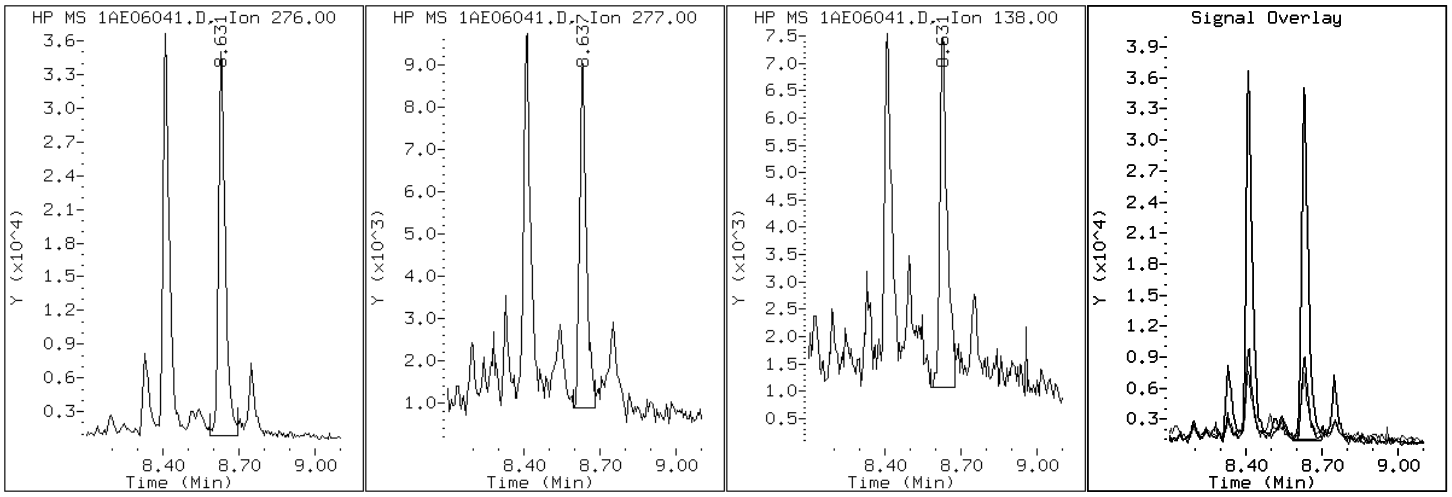
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

26 Benzo(g,h,i)perylene



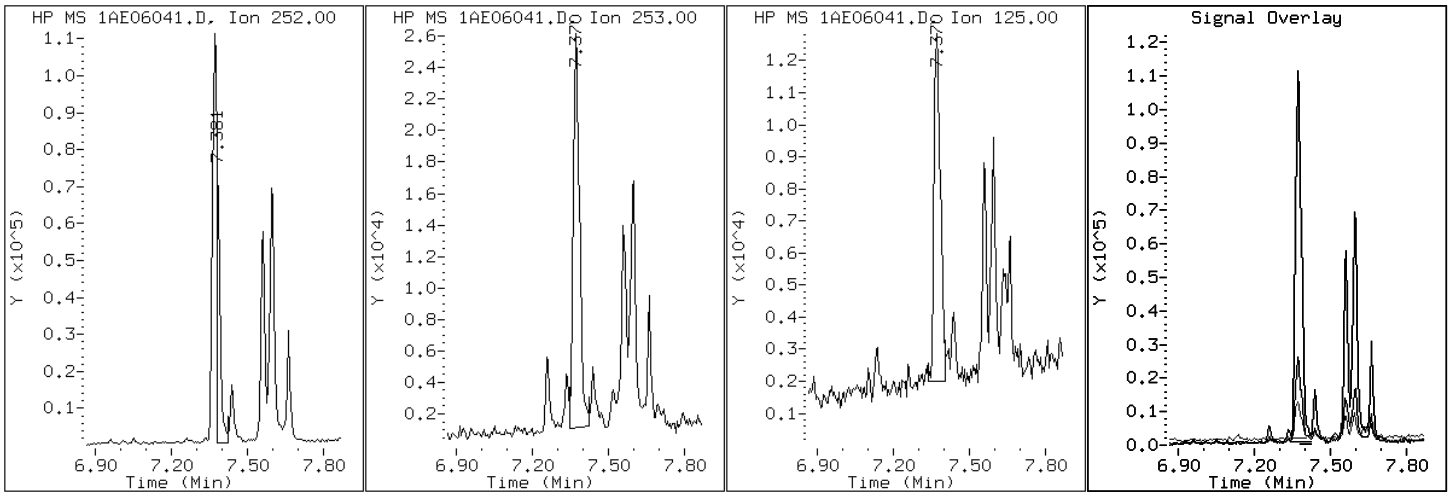
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

21 Benzo(k)fluoranthene



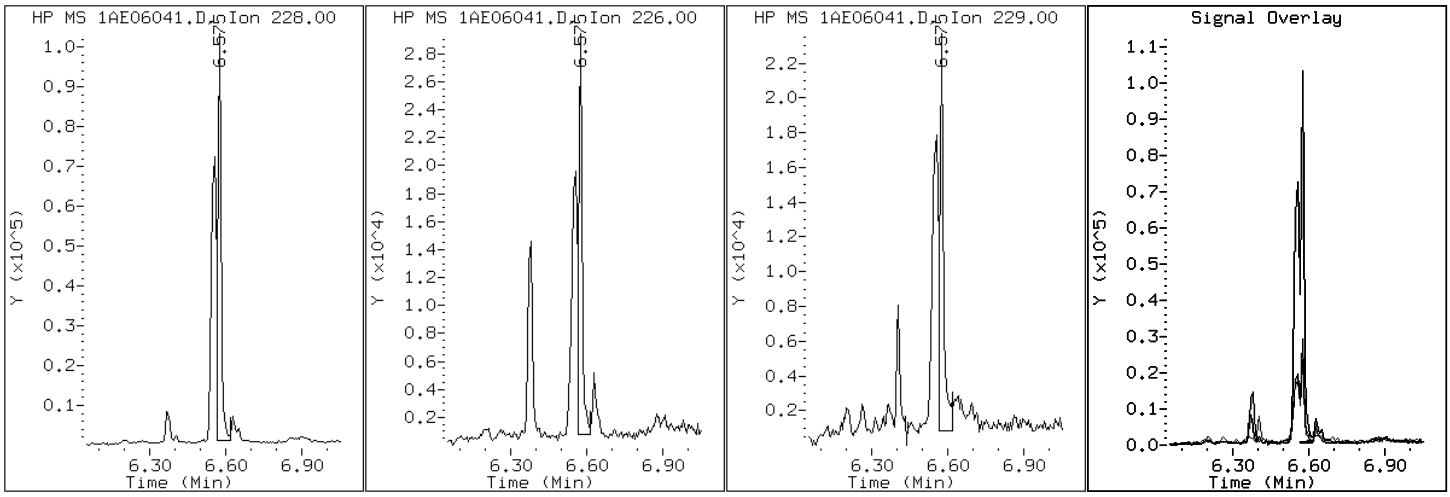
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

19 Chrysene



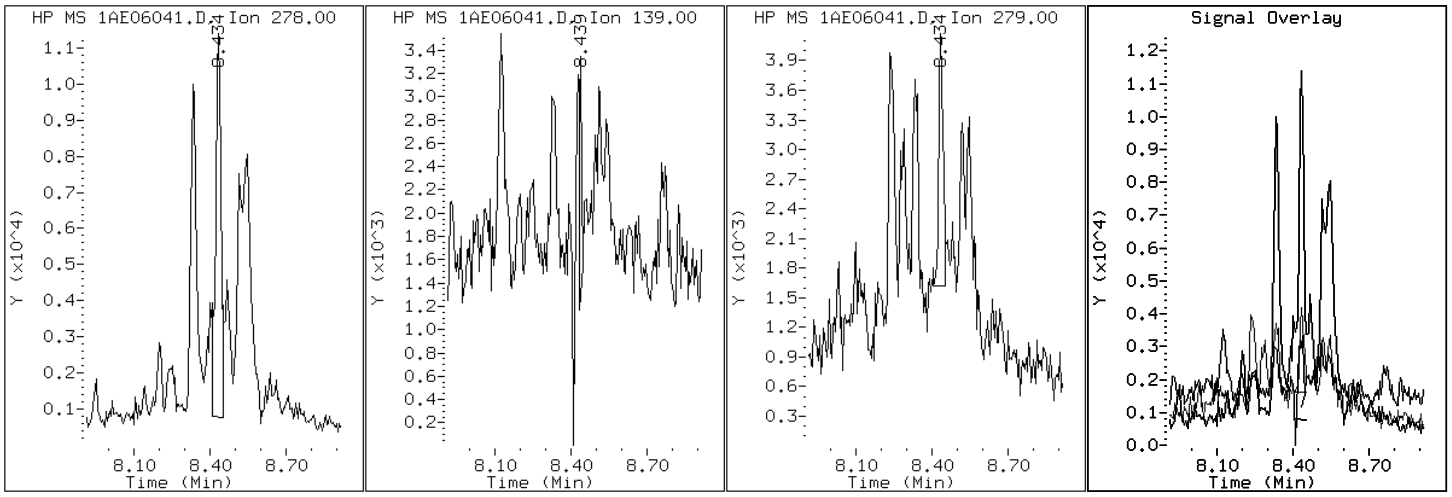
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

25 Dibenzo(a,h)anthracene



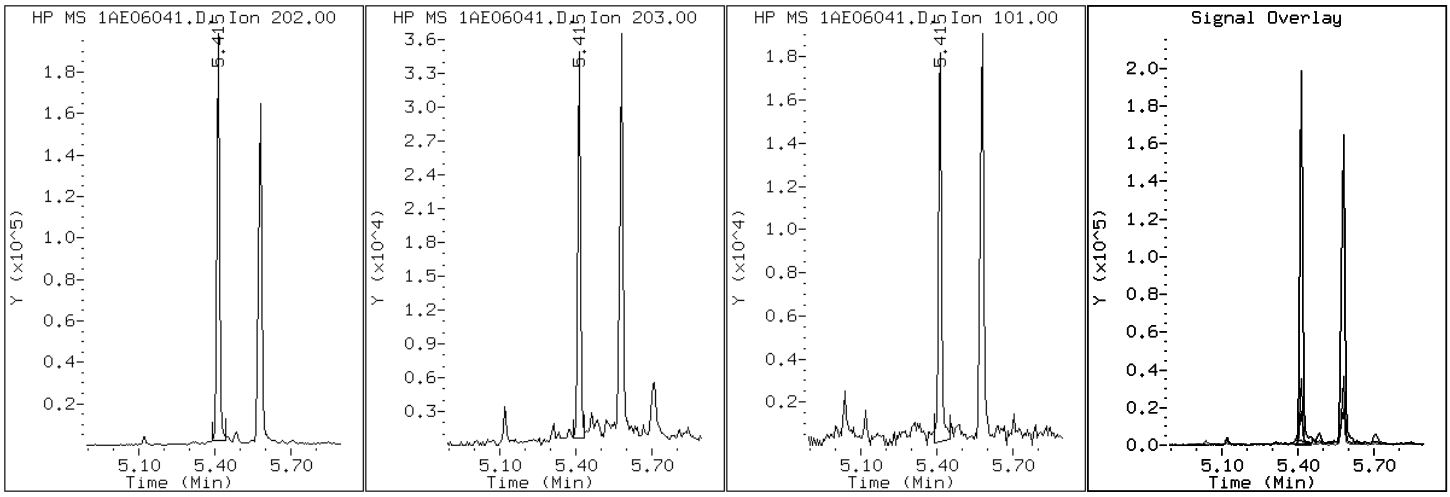
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

15 Fluoranthene



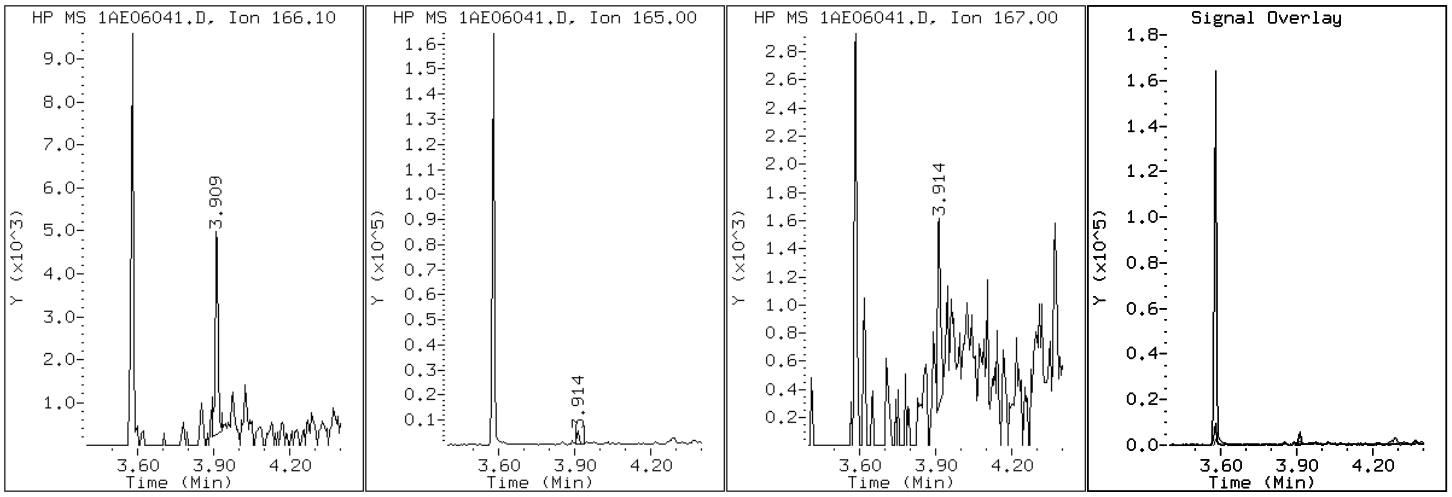
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

9 Fluorene



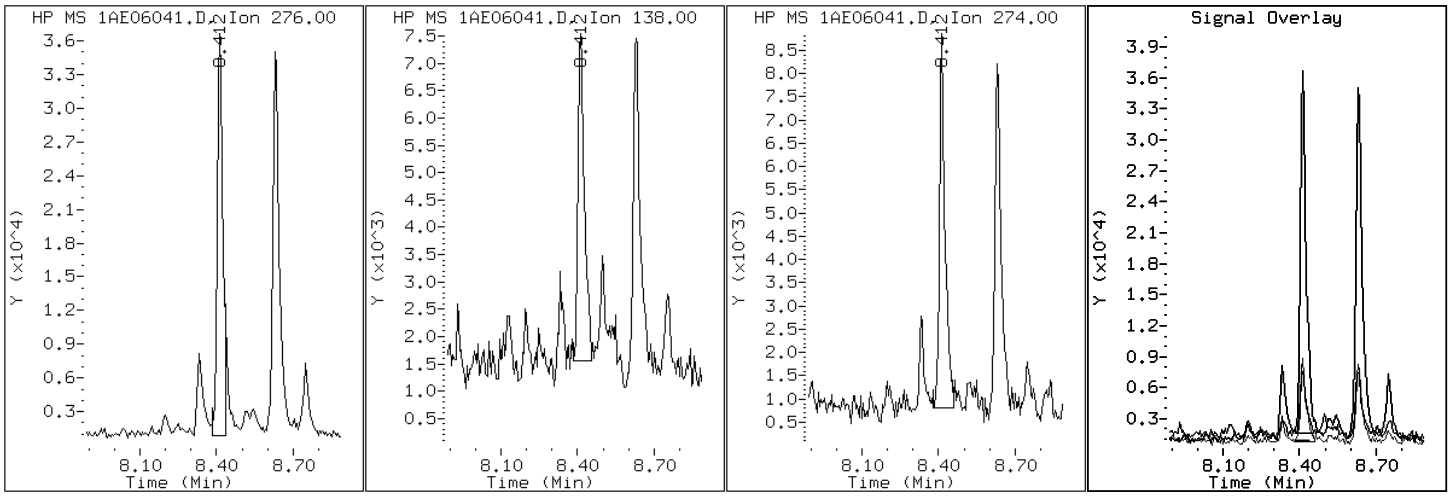
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

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



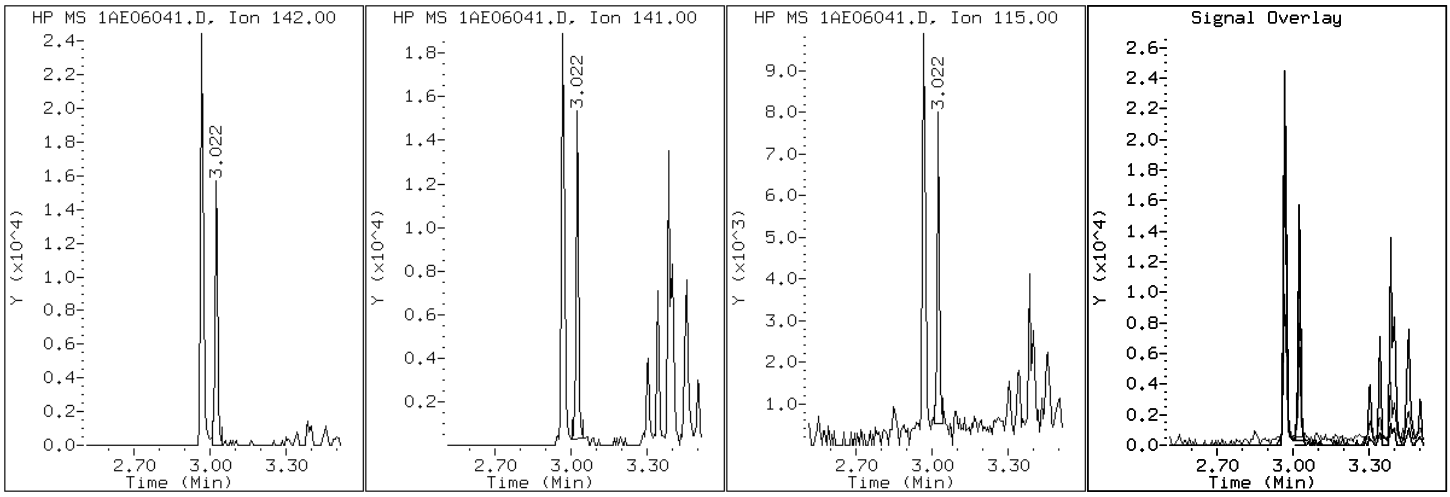
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

4 1-Methylnaphthalene



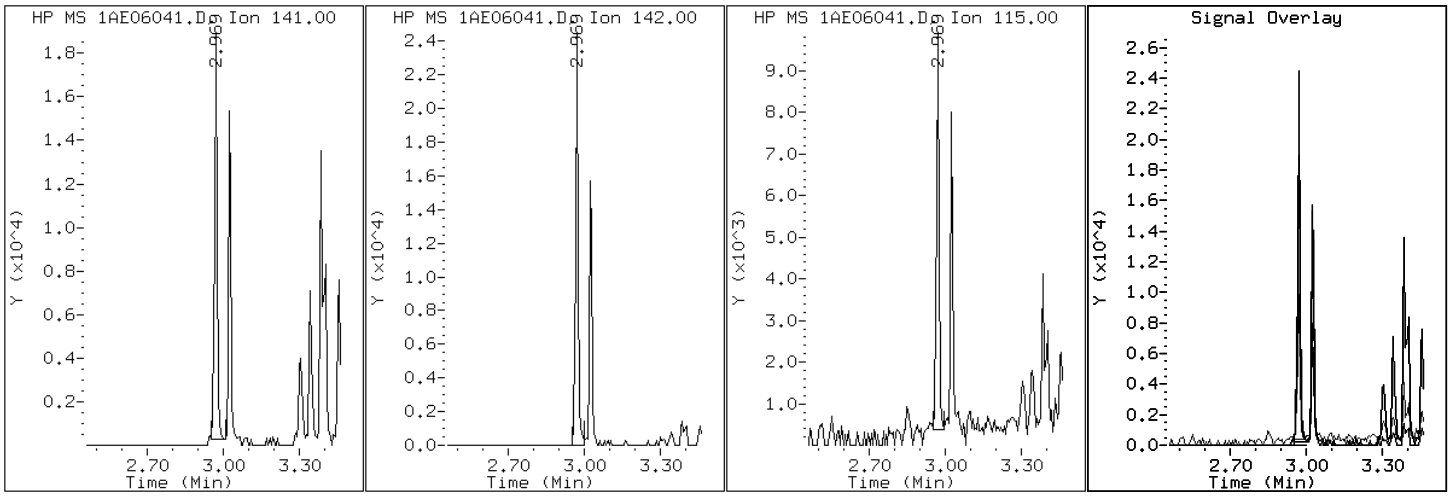
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

3 2-Methylnaphthalene



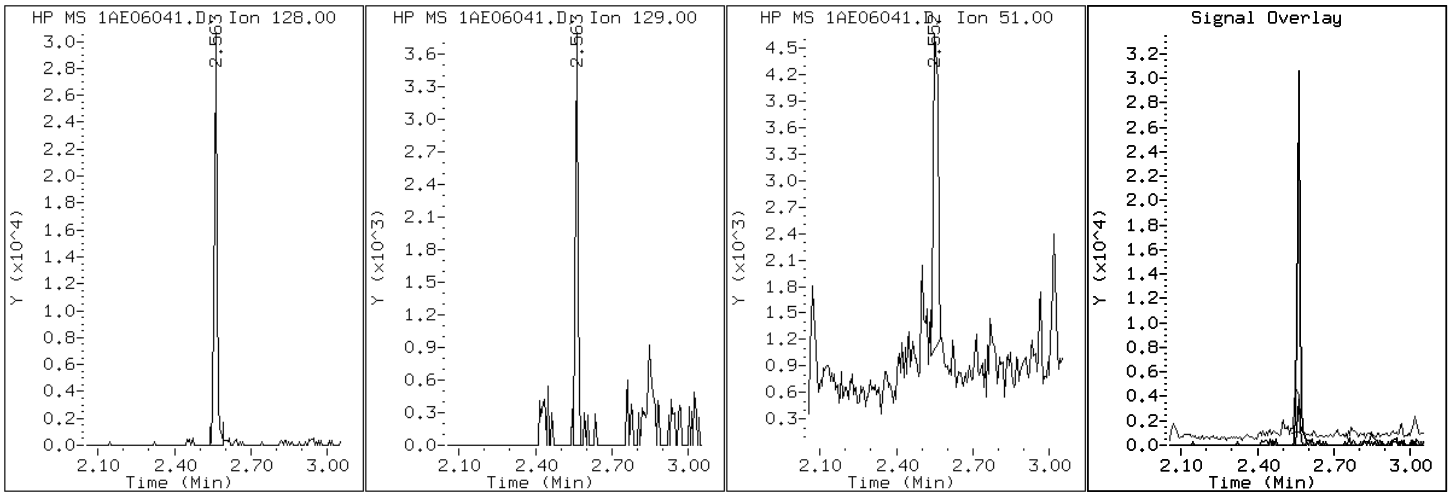
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

2 Naphthalene



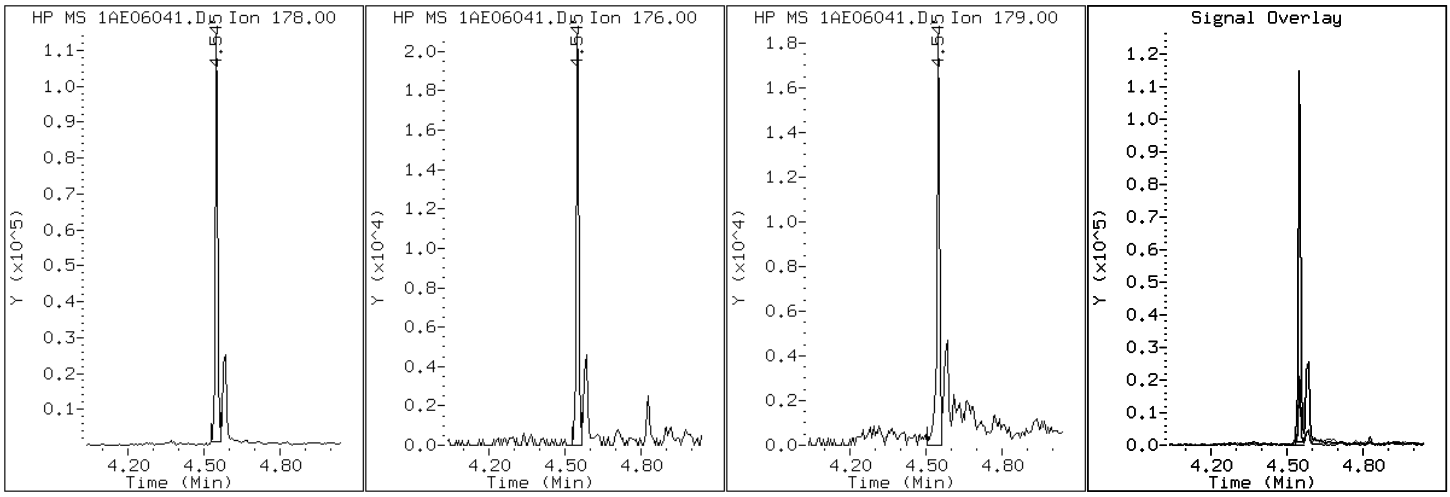
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

11 Phenanthrene



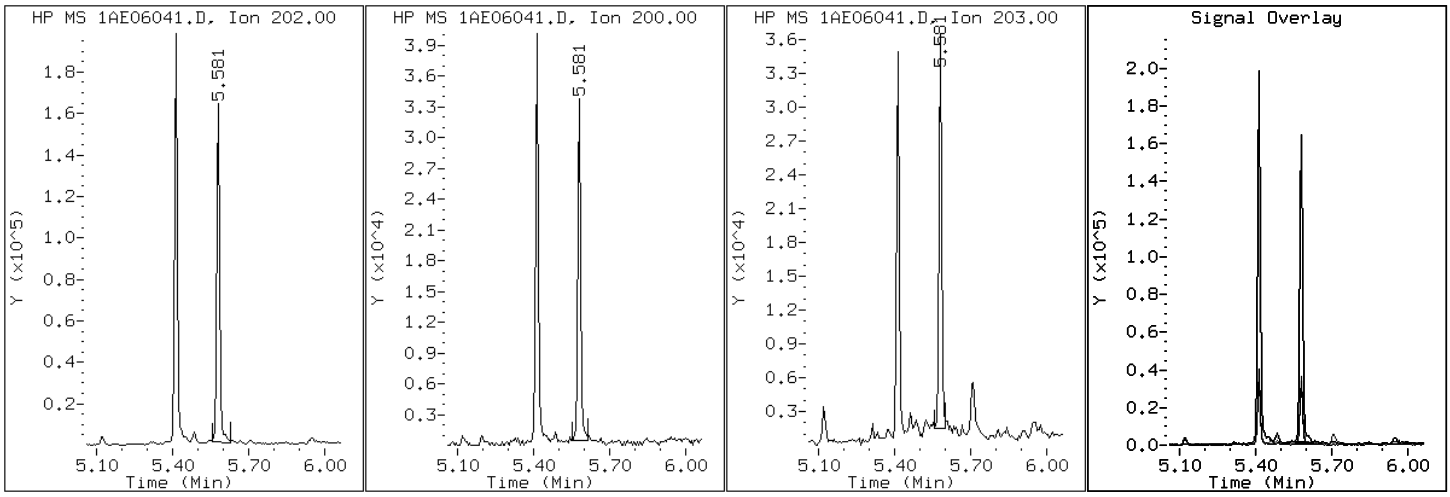
Data File: 1AE06041.D

Date: 06-MAY-2013 20:58

Client ID: CV0988A-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-17-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06041.D
Inj. Date and Time: 06-MAY-2013 20:58
Instrument ID: BSMA5973.i
Client ID: CV0988A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

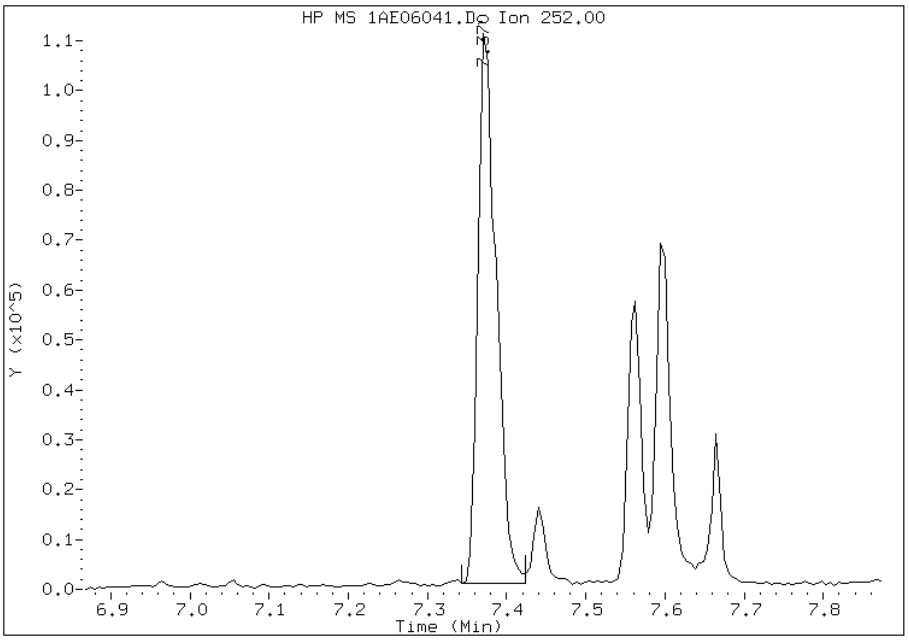
Processing Integration Results

RT: 7.37

Response: 176251

Amount: 6

Conc: 498



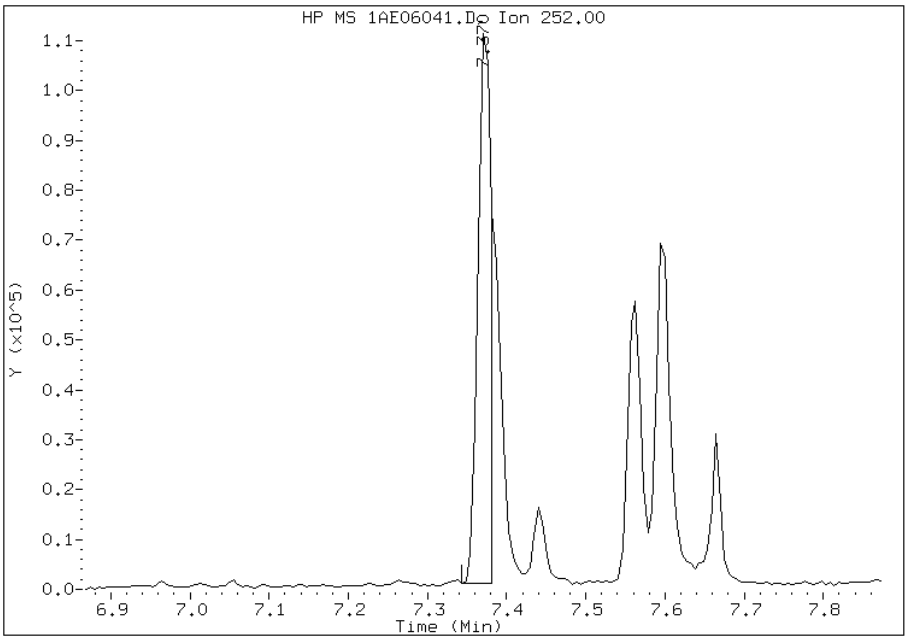
Manual Integration Results

RT: 7.37

Response: 126501

Amount: 4

Conc: 357



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06041.D
Inj. Date and Time: 06-MAY-2013 20:58
Instrument ID: BSMA5973.i
Client ID: CV0988A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

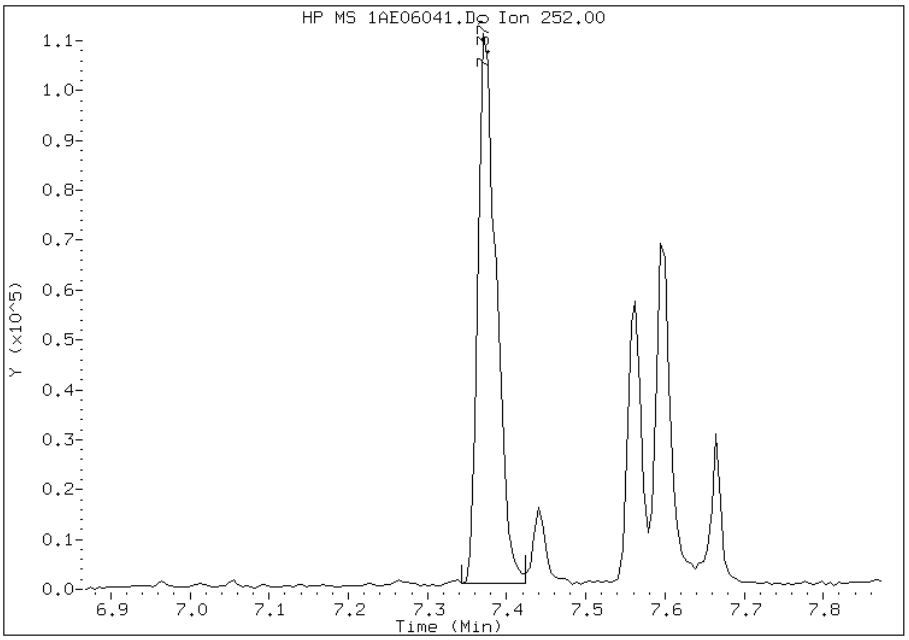
Processing Integration Results

RT: 7.37

Response: 176251

Amount: 5

Conc: 401



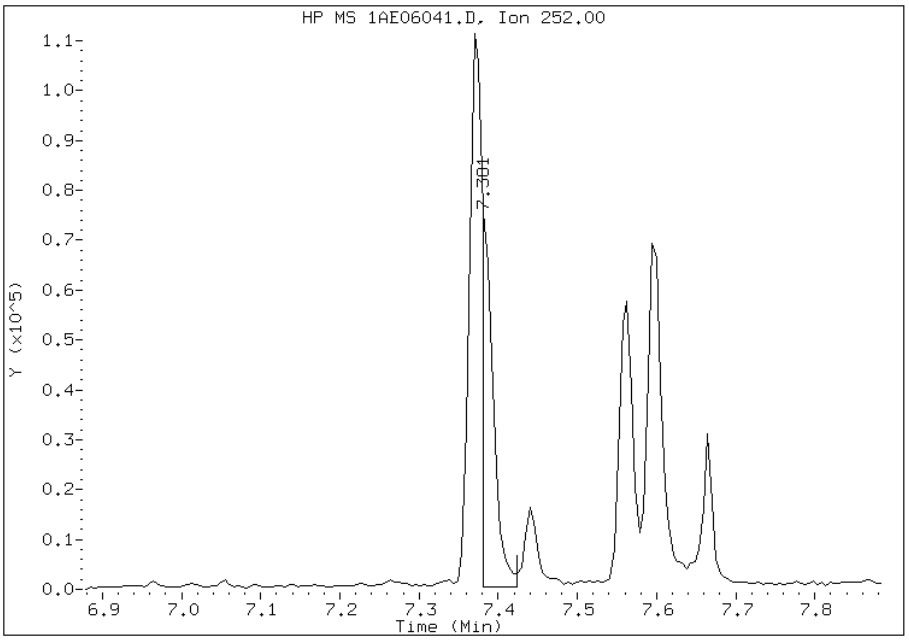
Manual Integration Results

RT: 7.38

Response: 75636

Amount: 2

Conc: 172



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06041.D
Inj. Date and Time: 06-MAY-2013 20:58
Instrument ID: BSMA5973.i
Client ID: CV0988A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

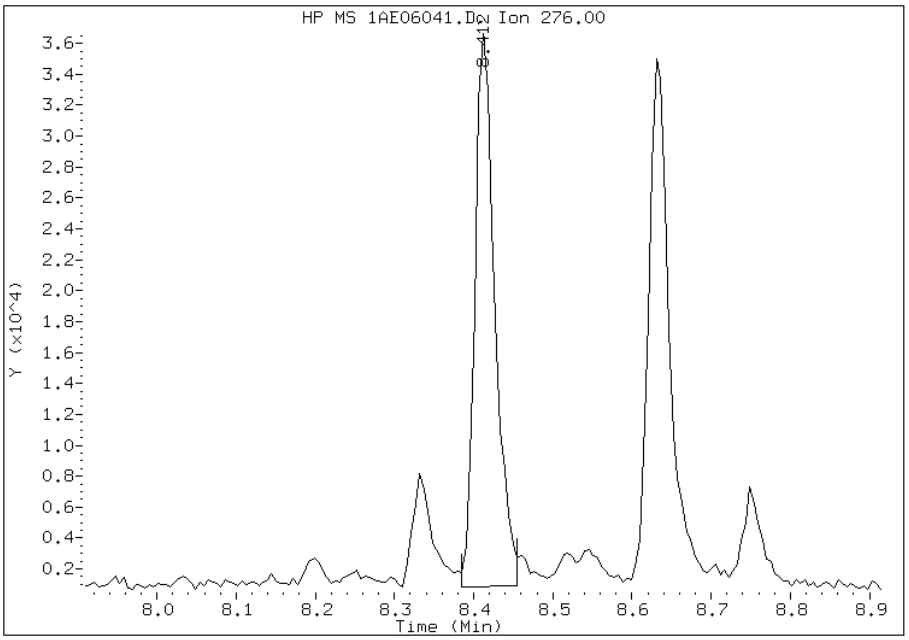
Processing Integration Results

RT: 8.41

Response: 62300

Amount: 2

Conc: 205



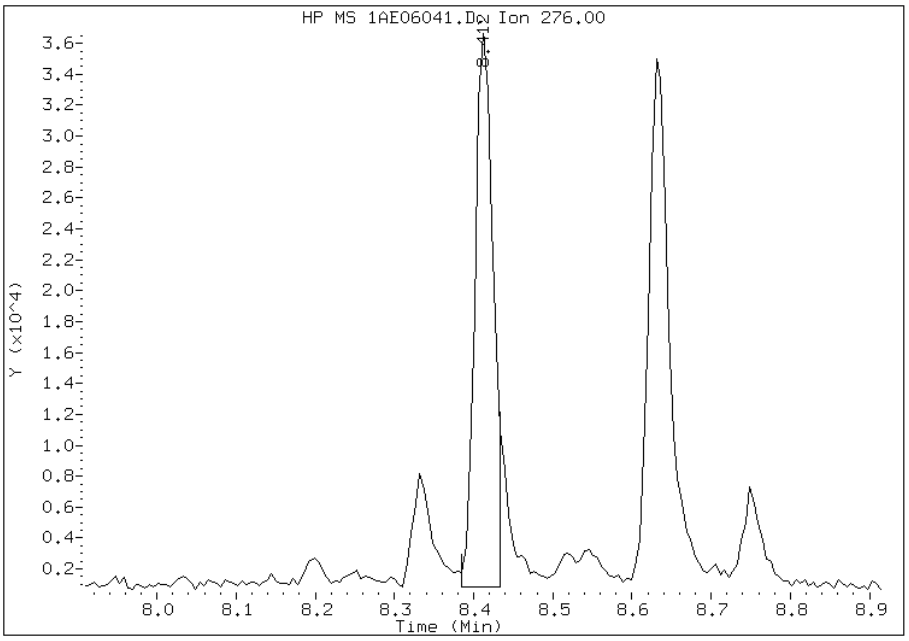
Manual Integration Results

RT: 8.41

Response: 56947

Amount: 2

Conc: 187



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0988A-CSD | Lab Sample ID: 680-89896-18

Matrix: Solid | Lab File ID: 1AE06042.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 13:10

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 15.04(g) | Date Analyzed: 05/06/2013 21:13

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

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

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

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	19	J	51	6.4
120-12-7	Anthracene	49		11	5.4
56-55-3	Benzo[a]anthracene	180		10	5.0
50-32-8	Benzo[a]pyrene	150		13	6.7
205-99-2	Benzo[b]fluoranthene	240		16	7.9
191-24-2	Benzo[g,h,i]perylene	110		26	5.7
207-08-9	Benzo[k]fluoranthene	91		10	4.6
218-01-9	Chrysene	170		12	5.8
53-70-3	Dibenz(a,h)anthracene	30		26	5.3
206-44-0	Fluoranthene	300		26	5.1
86-73-7	Fluorene	12	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	96		26	9.1
90-12-0	1-Methylnaphthalene	35	J	51	5.7
91-57-6	2-Methylnaphthalene	51		51	9.1
91-20-3	Naphthalene	38	J	51	5.7
85-01-8	Phenanthrene	220		10	5.0
129-00-0	Pyrene	240		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	36		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06042.D
Lab Smp Id: 680-89896-A-18-A Client Smp ID: CV0988A-CSD
Inj Date : 06-MAY-2013 21:13
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-18-a
Misc Info : 680-89896-A-18-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 42
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	22.505	% 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	2.553	2.544	(1.000)	1425504	40.0000	
* 6 Acenaphthene-d10	164	3.584	3.575	(1.000)	747857	40.0000	
* 10 Phenanthrene-d10	188	4.535	4.521	(1.000)	1096198	40.0000	
$ 14 o-Terphenyl	230	4.829	4.820	(1.065)	56095	3.57544	306.7676
* 18 Chrysene-d12	240	6.560	6.535	(1.000)	1093371	40.0000	(H)
* 23 Perylene-d12	264	7.655	7.630	(1.000)	1171719	40.0000	
2 Naphthalene	128	2.564	2.555	(1.004)	14990	0.44654	38.3122
3 2-Methylnaphthalene	141	2.970	2.961	(1.163)	10112	0.59272	50.8541
4 1-Methylnaphthalene	142	3.023	3.014	(1.184)	8360	0.40882	35.0765
5 Acenaphthylene	152	3.493	3.484	(0.975)	7585	0.21584	18.5191
9 Fluorene	166	3.910	3.901	(1.091)	3220	0.14001	12.0126
11 Phenanthrene	178	4.546	4.537	(1.002)	68654	2.52800	216.8990
12 Anthracene	178	4.583	4.569	(1.011)	16447	0.56853	48.7792
13 Carbazole	167	4.717	4.702	(1.040)	11611	0.44640	38.3002

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.416	5.397	(1.194)	108484	3.47235	297.9228
16 Pyrene	202	5.582	5.562	(0.851)	96714	2.75185	236.1047(H)
17 Benzo(a)anthracene	228	6.554	6.524	(0.999)	66148	2.15266	184.6955
19 Chrysene	228	6.576	6.551	(1.002)	68221	1.97319	169.2969(H)
20 Benzo(b)fluoranthene	252	7.372	7.347	(0.963)	85720	2.76780	237.4729(M)
21 Benzo(k)fluoranthene	252	7.382	7.368	(0.964)	40532	1.05493	90.5113(M)
22 Benzo(a)pyrene	252	7.596	7.576	(0.992)	56074	1.76297	151.2603
24 Indeno(1,2,3-cd)pyrene	276	8.413	8.388	(1.099)	29758	1.11680	95.8197(M)
25 Dibenzo(a,h)anthracene	278	8.429	8.414	(1.101)	9656	0.35352	30.3318
26 Benzo(g,h,i)perylene	276	8.627	8.602	(1.127)	35270	1.23092	105.6109

QC Flag Legend

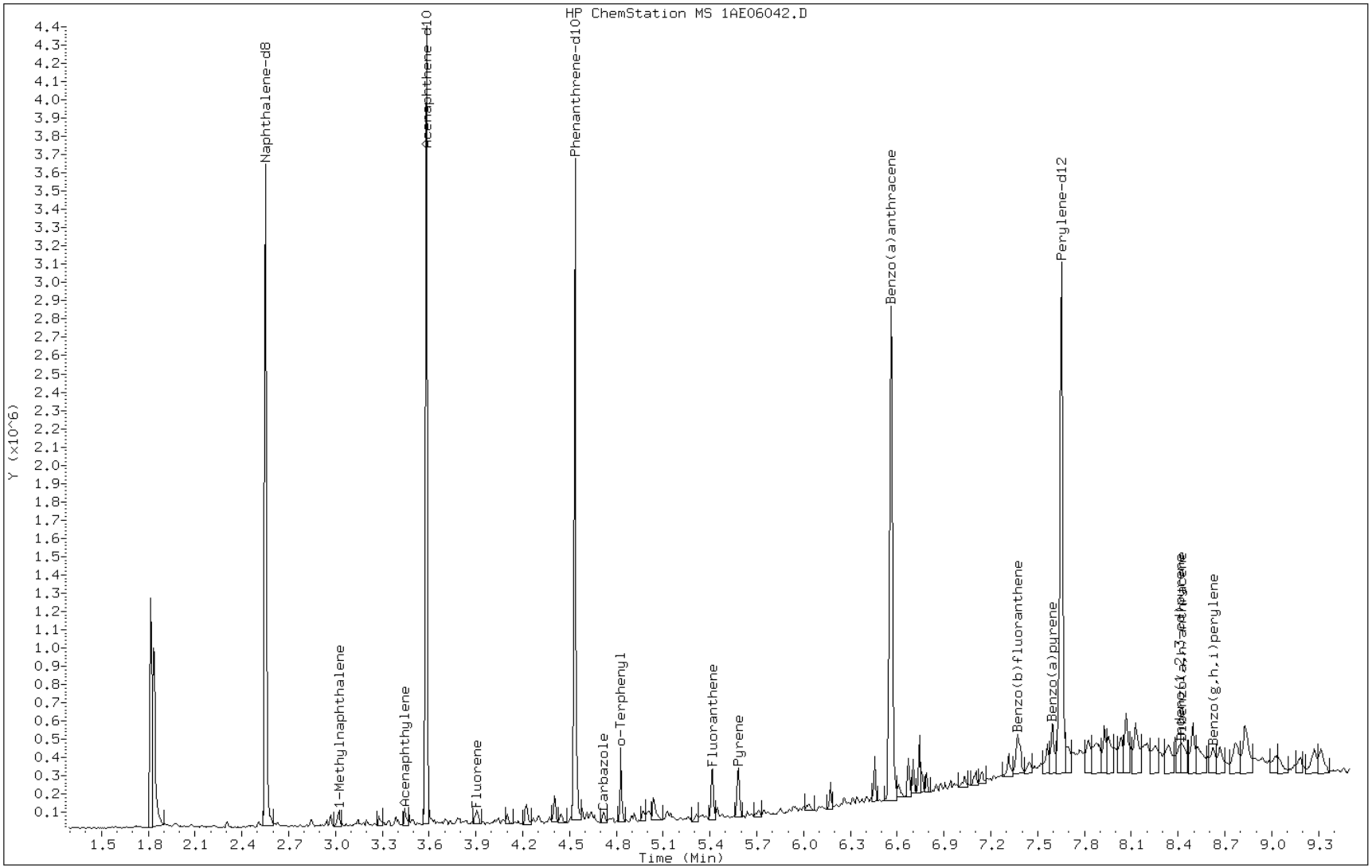
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC



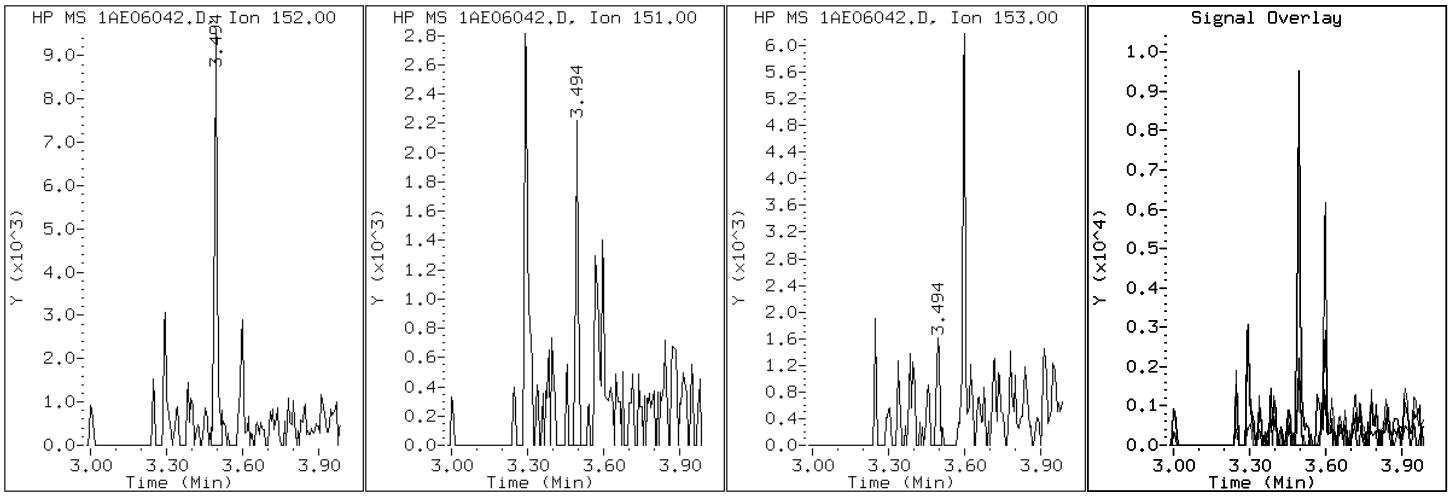
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

5 Acenaphthylene



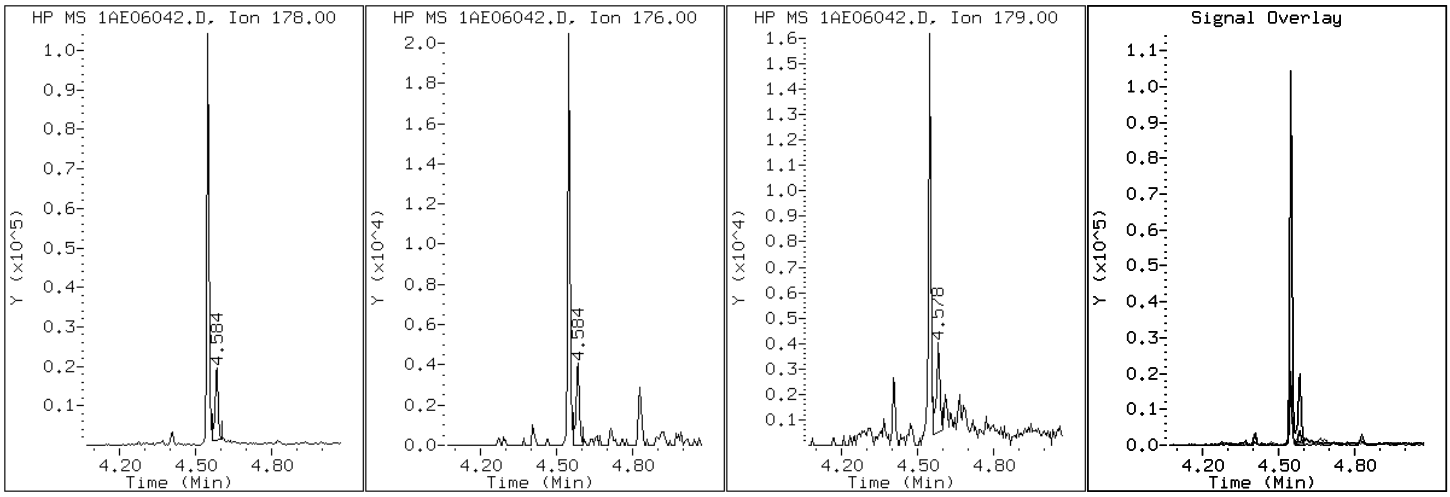
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

12 Anthracene



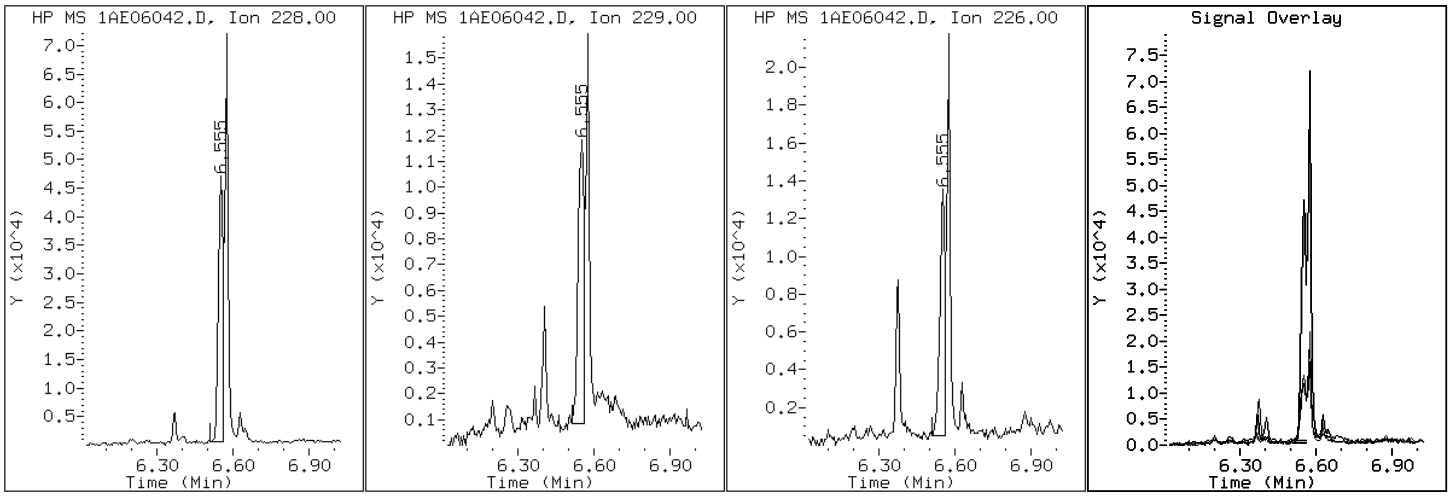
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

17 Benzo(a)anthracene



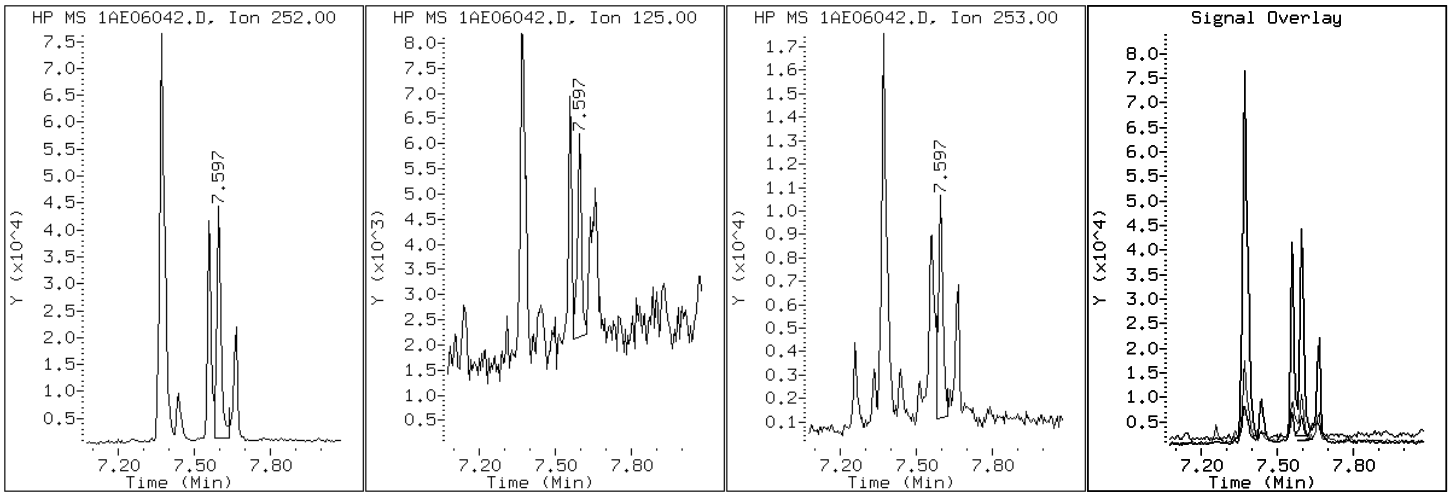
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

22 Benzo(a)pyrene



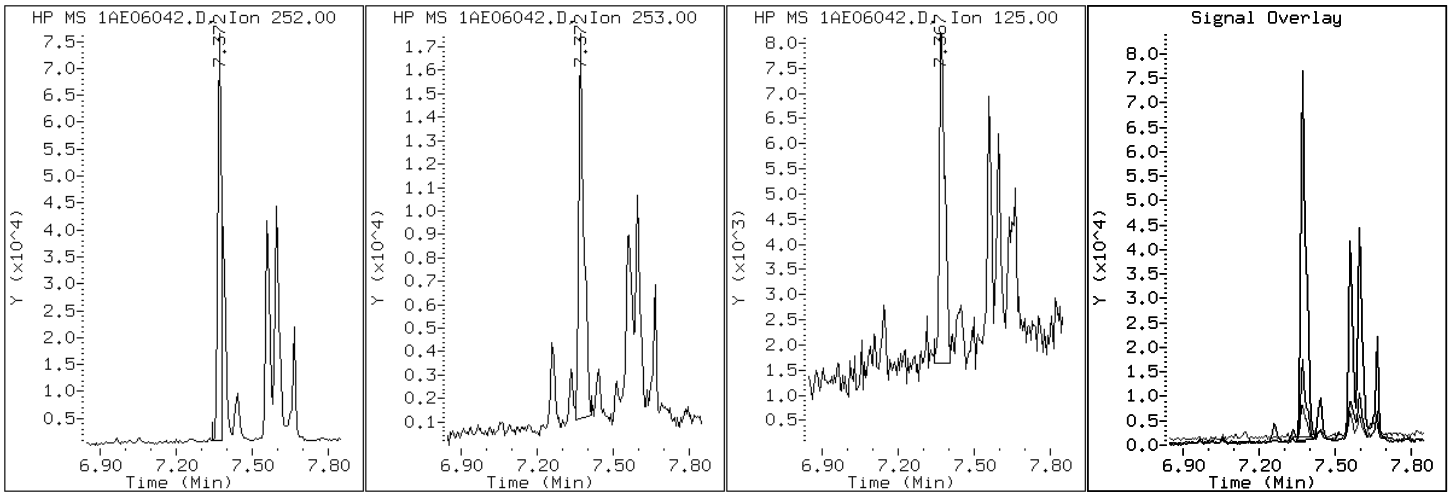
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

20 Benzo(b)fluoranthene



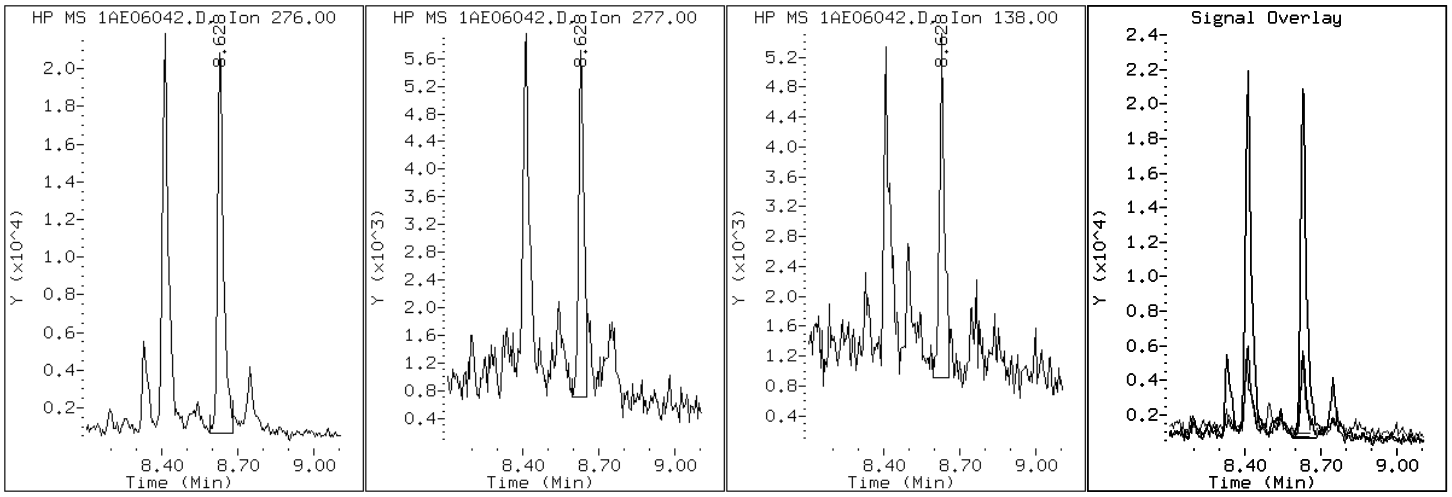
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

26 Benzo(g,h,i)perylene



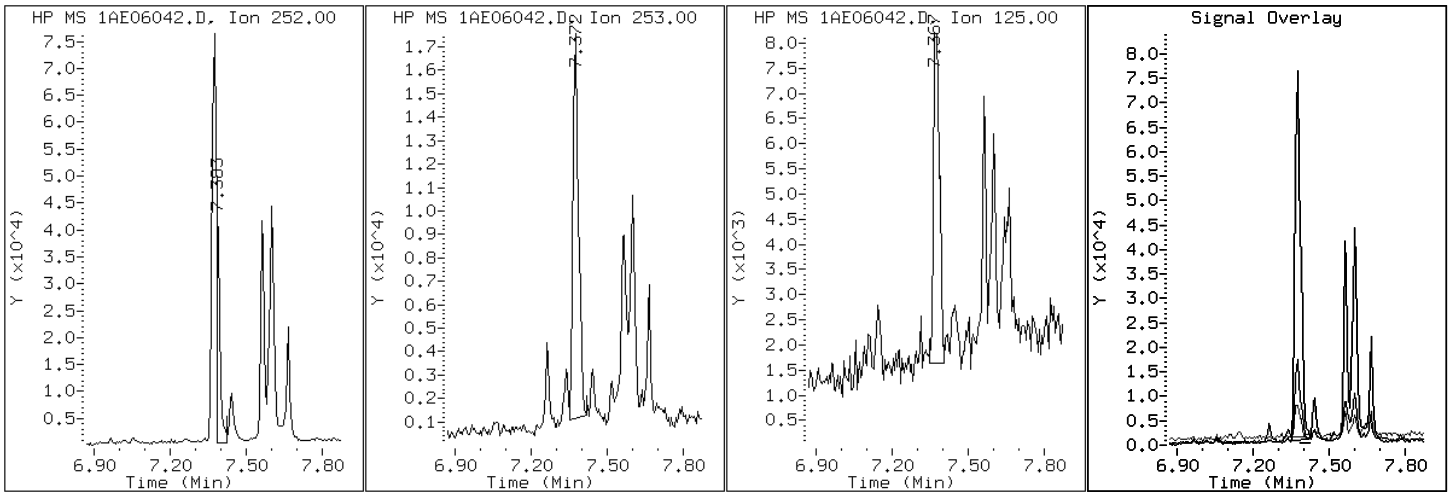
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

21 Benzo(k)fluoranthene



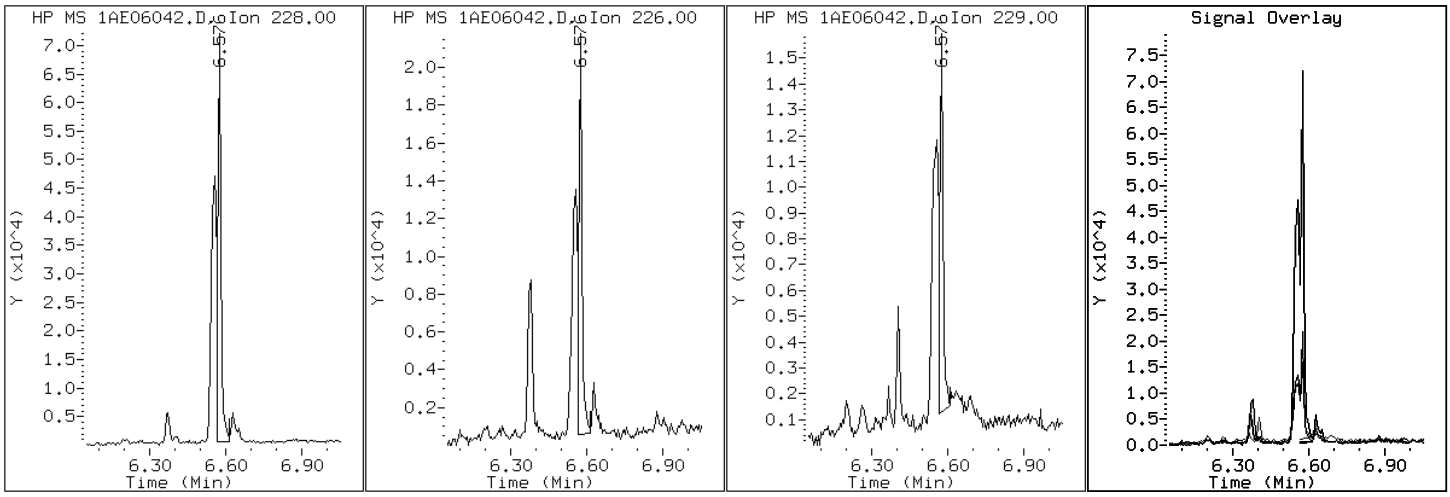
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

19 Chrysene



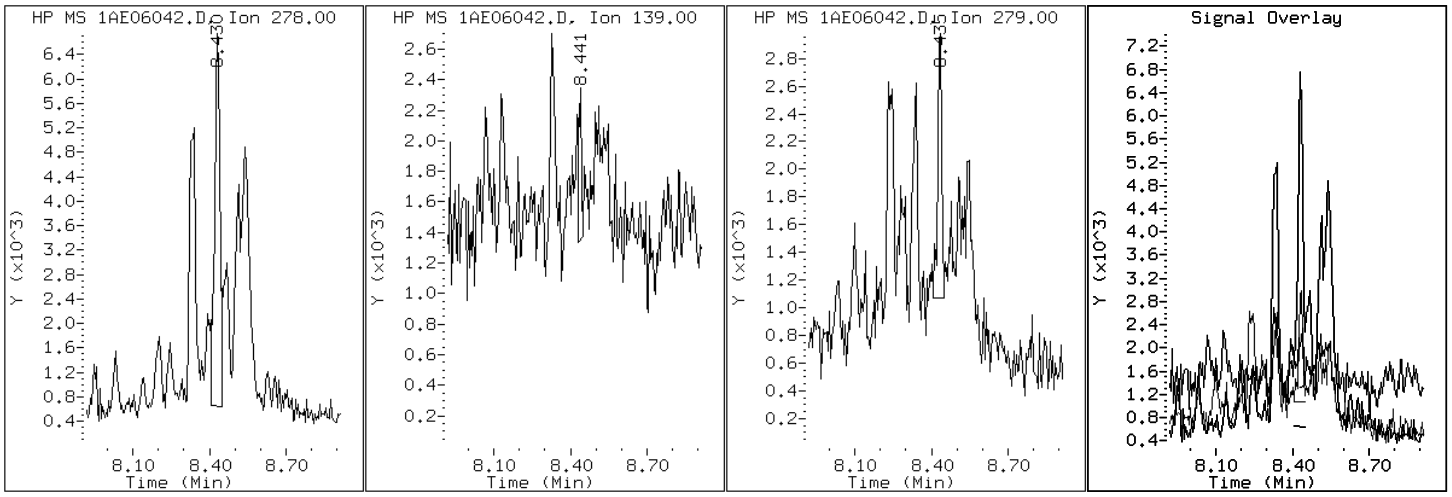
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

25 Dibenzo(a,h)anthracene



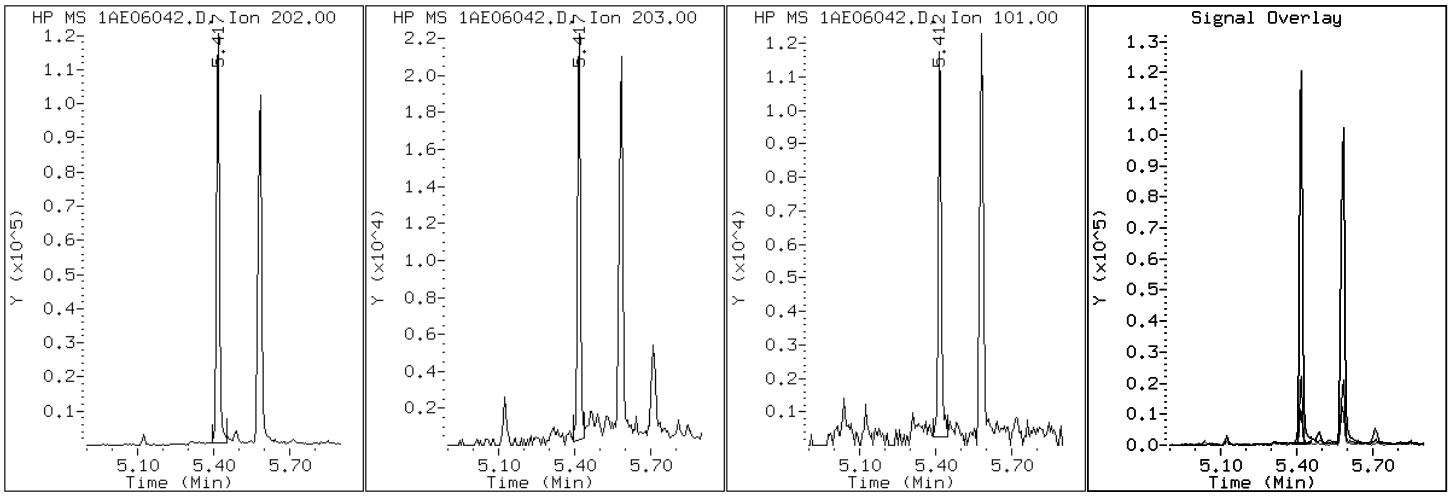
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

15 Fluoranthene



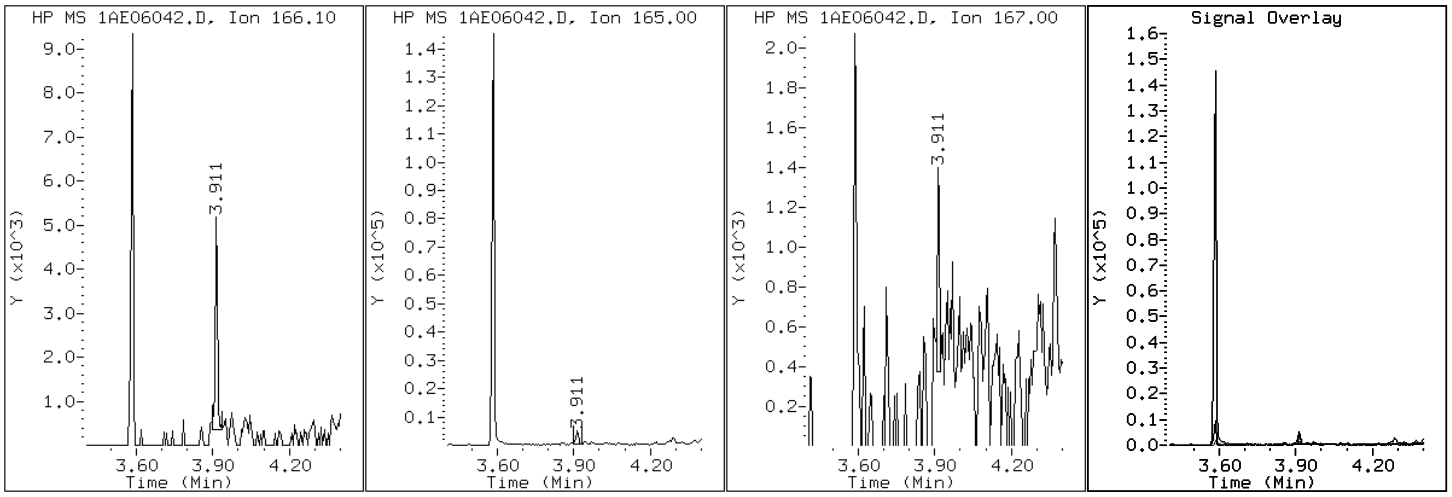
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

9 Fluorene



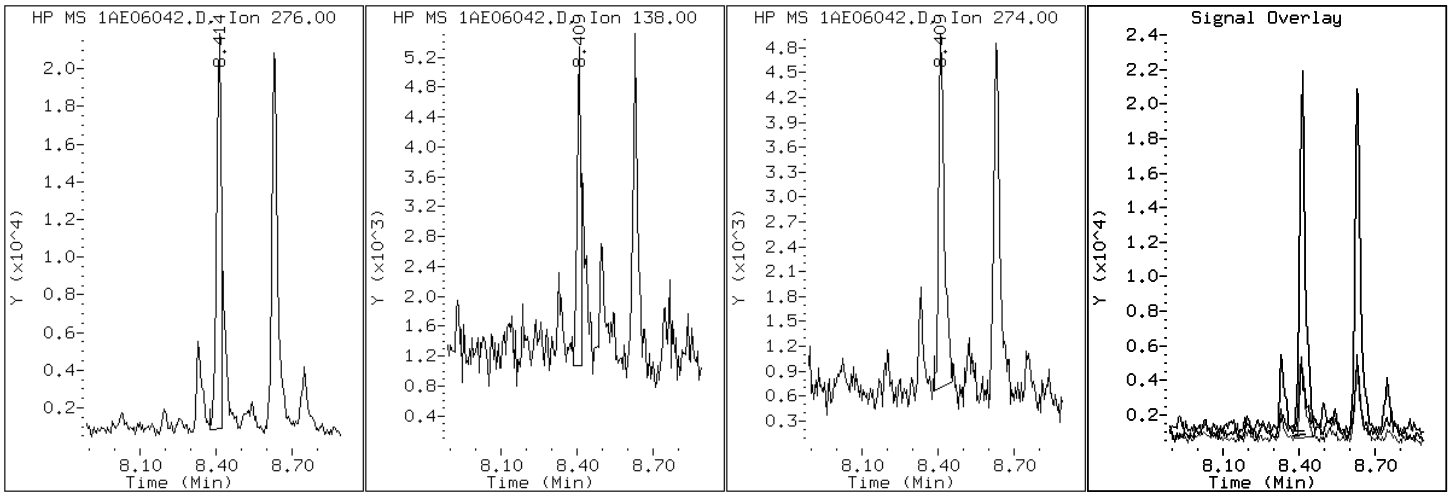
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

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



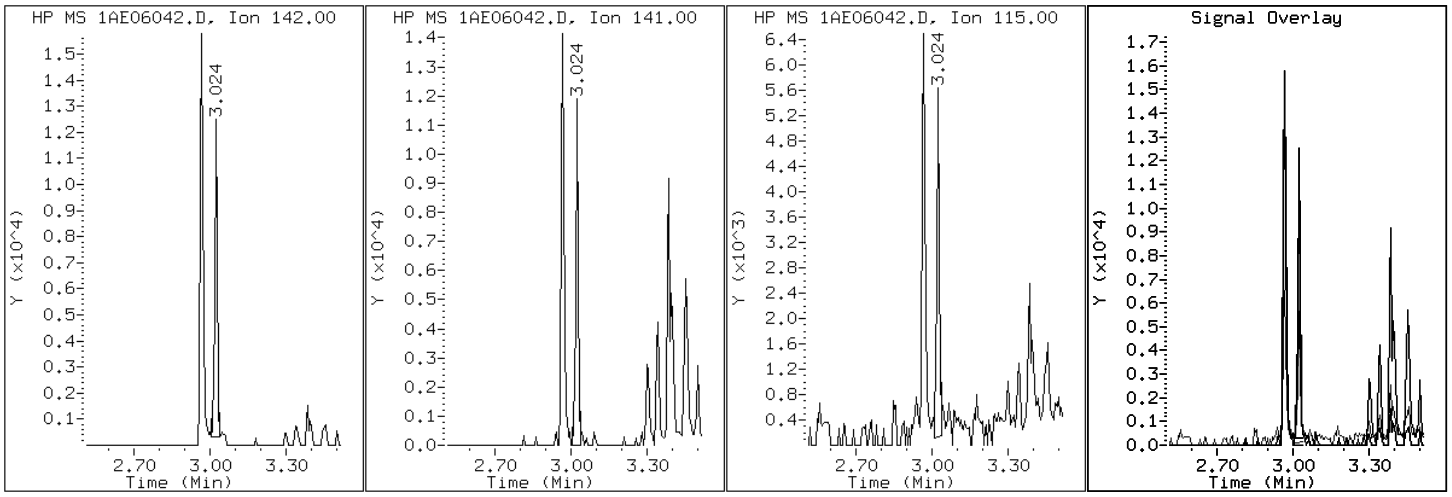
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

4 1-Methylnaphthalene



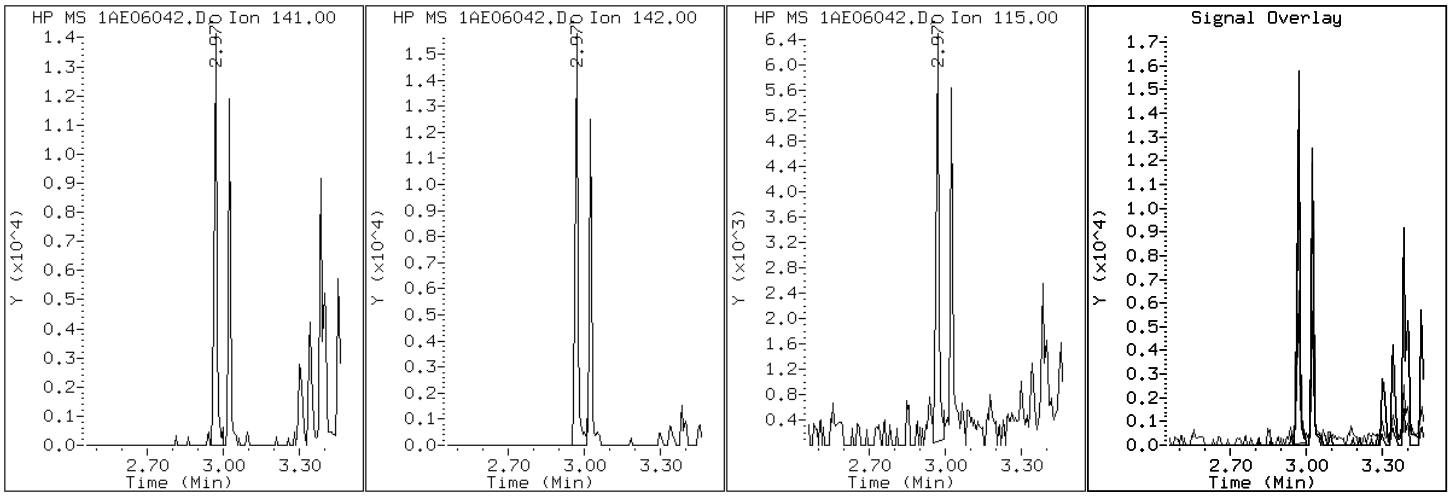
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

3 2-Methylnaphthalene



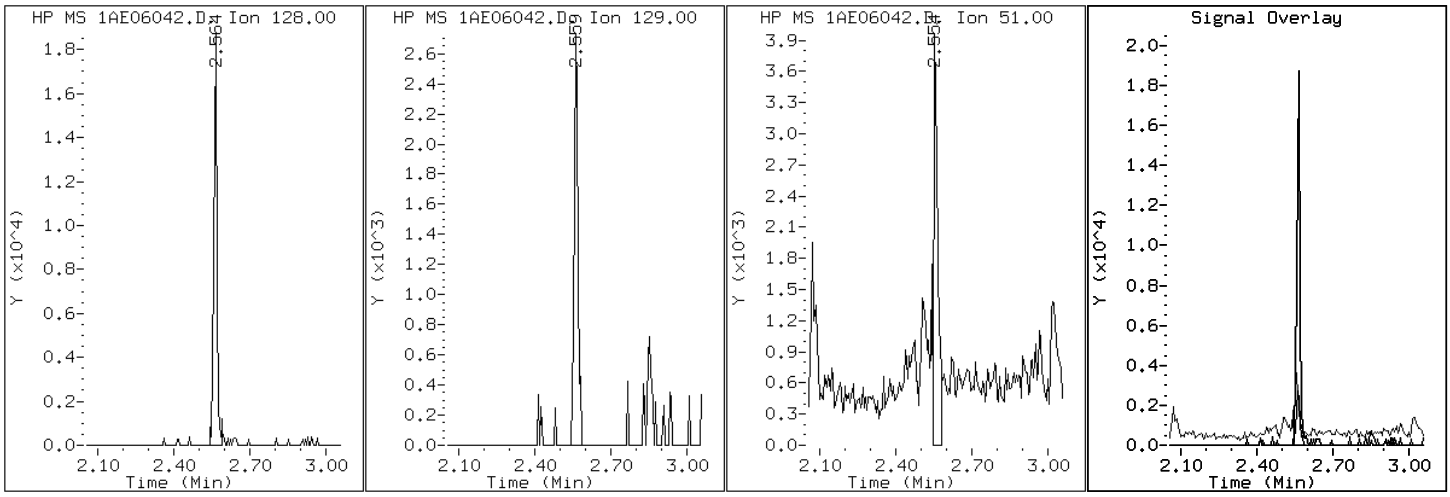
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

2 Naphthalene



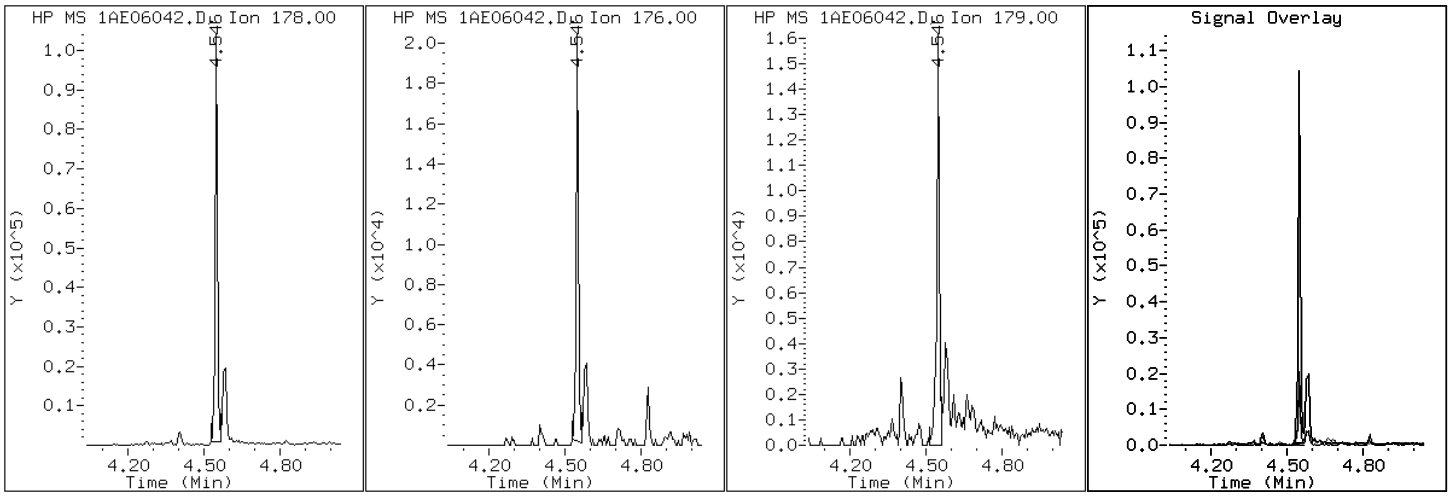
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

11 Phenanthrene



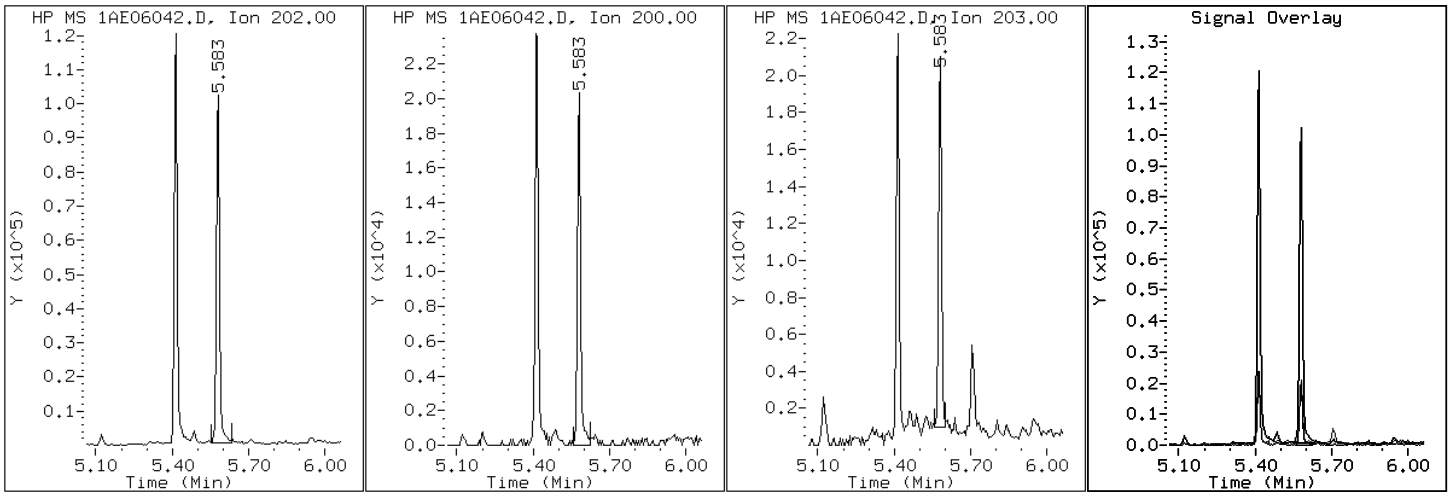
Data File: 1AE06042.D

Date: 06-MAY-2013 21:13

Client ID: CV0988A-CSD Instrument: BSMA5973.i

Sample Info: 680-89896-a-18-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06042.D
Inj. Date and Time: 06-MAY-2013 21:13
Instrument ID: BSMA5973.i
Client ID: CV0988A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

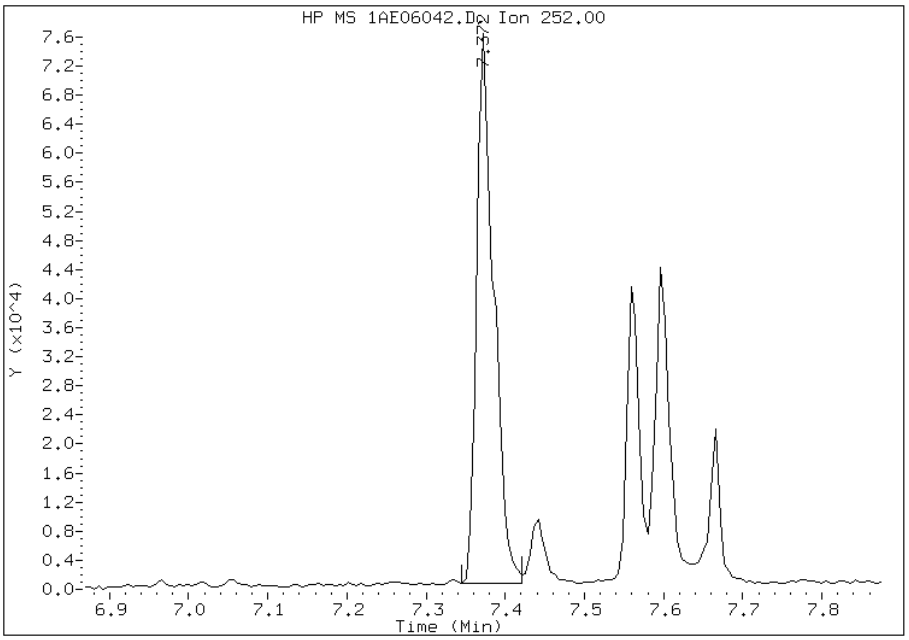
Processing Integration Results

RT: 7.37

Response: 111982

Amount: 4

Conc: 310



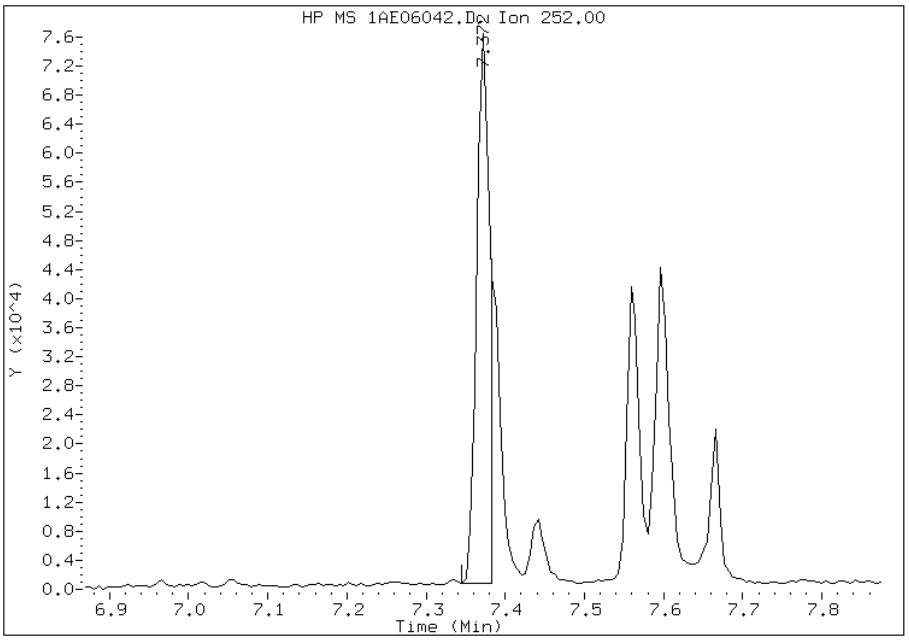
Manual Integration Results

RT: 7.37

Response: 85720

Amount: 3

Conc: 237



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06042.D
Inj. Date and Time: 06-MAY-2013 21:13
Instrument ID: BSMA5973.i
Client ID: CV0988A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

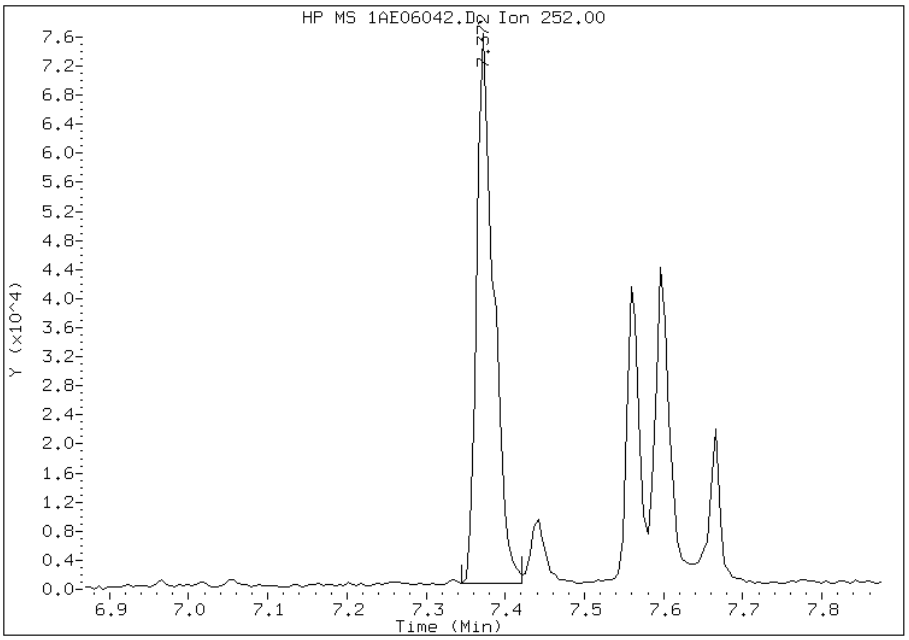
Processing Integration Results

RT: 7.37

Response: 111982

Amount: 3

Conc: 250



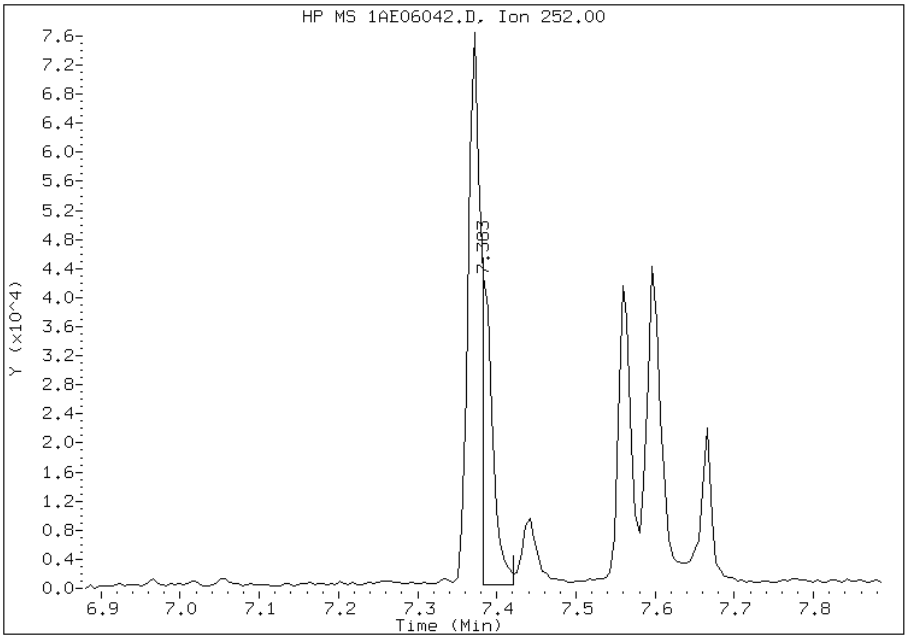
Manual Integration Results

RT: 7.38

Response: 40532

Amount: 1

Conc: 91



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06042.D
Inj. Date and Time: 06-MAY-2013 21:13
Instrument ID: BSMA5973.i
Client ID: CV0988A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

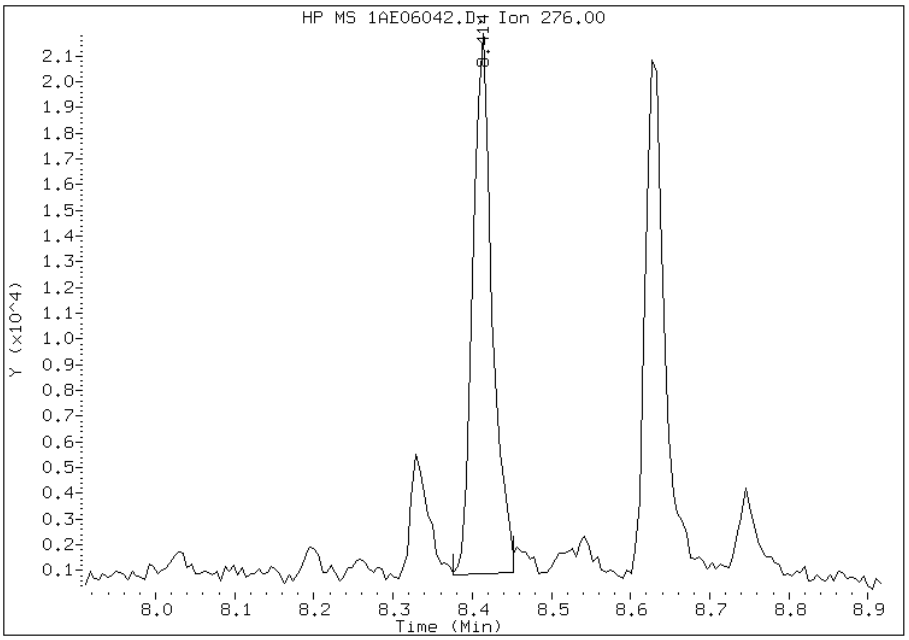
Processing Integration Results

RT: 8.41

Response: 35357

Amount: 1

Conc: 114



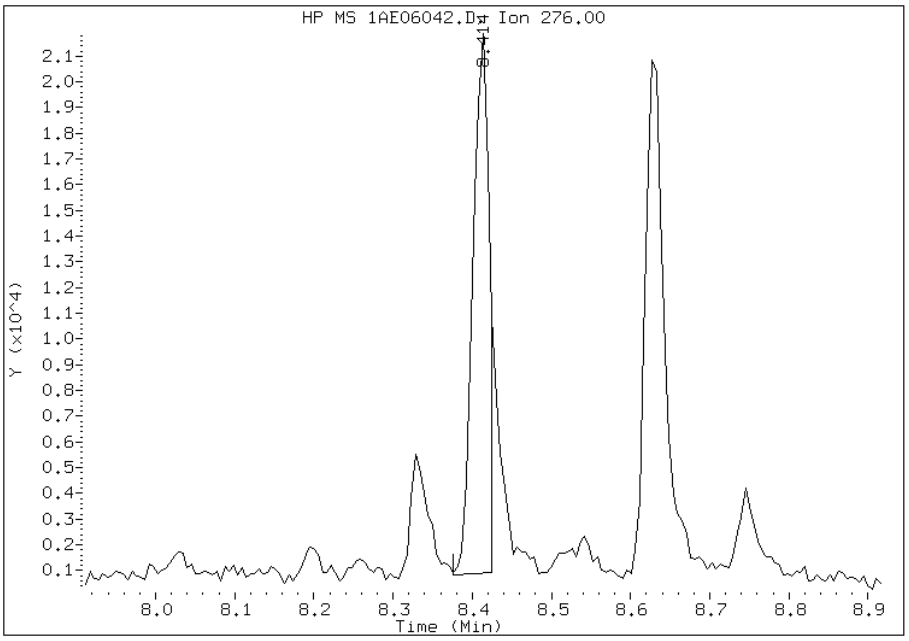
Manual Integration Results

RT: 8.41

Response: 29758

Amount: 1

Conc: 96



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0988B-CS | Lab Sample ID: 680-89896-19

Matrix: Solid | Lab File ID: 1AE06043.D

Analysis Method: 8270C LL | Date Collected: 04/30/2013 13:00

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 14.95(g) | Date Analyzed: 05/06/2013 21:28

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

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

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

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	6.0	J	46	5.7
120-12-7	Anthracene	16		9.6	4.8
56-55-3	Benzo[a]anthracene	45		9.2	4.5
50-32-8	Benzo[a]pyrene	36		12	6.0
205-99-2	Benzo[b]fluoranthene	55		14	7.0
191-24-2	Benzo[g,h,i]perylene	25		23	5.0
207-08-9	Benzo[k]fluoranthene	26		9.2	4.1
218-01-9	Chrysene	48		10	5.2
53-70-3	Dibenz(a,h)anthracene	5.9	J	23	4.7
206-44-0	Fluoranthene	57		23	4.6
86-73-7	Fluorene	23	U	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	23		23	8.1
90-12-0	1-Methylnaphthalene	13	J	46	5.0
91-57-6	2-Methylnaphthalene	19	J	46	8.1
91-20-3	Naphthalene	16	J	46	5.0
85-01-8	Phenanthrene	53		9.2	4.5
129-00-0	Pyrene	49		23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	32		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06043.D
Lab Smp Id: 680-89896-A-19-A Client Smp ID: CV0988B-CS
Inj Date : 06-MAY-2013 21:28
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-19-a
Misc Info : 680-89896-A-19-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 43
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	12.500	% 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	2.551	2.544	(1.000)	1467991	40.0000	
* 6 Acenaphthene-d10	164	3.582	3.575	(1.000)	764047	40.0000	
* 10 Phenanthrene-d10	188	4.533	4.521	(1.000)	1209451	40.0000	
$ 14 o-Terphenyl	230	4.827	4.820	(1.065)	54748	3.16282	241.7825
* 18 Chrysene-d12	240	6.563	6.535	(1.000)	1158003	40.0000	(H)
* 23 Perylene-d12	264	7.658	7.630	(1.000)	1231839	40.0000	
2 Naphthalene	128	2.562	2.555	(1.004)	7328	0.21198	16.2045(Q)
3 2-Methylnaphthalene	141	2.968	2.961	(1.163)	4254	0.24213	18.5098
4 1-Methylnaphthalene	142	3.021	3.014	(1.184)	3615	0.17167	13.1230
5 Acenaphthylene	152	3.491	3.484	(0.975)	2808	0.07821	5.9790
11 Phenanthrene	178	4.549	4.537	(1.004)	20957	0.69943	53.4677
12 Anthracene	178	4.581	4.569	(1.011)	6845	0.21446	16.3942
13 Carbazole	167	4.720	4.702	(1.041)	3111	0.10841	8.2871
15 Fluoranthene	202	5.414	5.397	(1.194)	25763	0.74740	57.1354

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	5.580	5.562	(0.850)	23859	0.64098	48.9999(H)
17 Benzo(a)anthracene	228	6.552	6.524	(0.998)	19263	0.59189	45.2472
19 Chrysene	228	6.574	6.551	(1.002)	22829	0.62344	47.6591(H)
20 Benzo(b)fluoranthene	252	7.370	7.347	(0.962)	23358	0.71739	54.8412(M)
21 Benzo(k)fluoranthene	252	7.380	7.368	(0.964)	13615	0.33706	25.7669(M)
22 Benzo(a)pyrene	252	7.599	7.576	(0.992)	15740	0.47071	35.9839
24 Indeno(1,2,3-cd)pyrene	276	8.411	8.388	(1.098)	8532	0.30457	23.2831(M)
25 Dibenzo(a,h)anthracene	278	8.427	8.414	(1.100)	2198	0.07655	5.8515
26 Benzo(g,h,i)perylene	276	8.630	8.602	(1.127)	9659	0.32065	24.5118(M)

QC Flag Legend

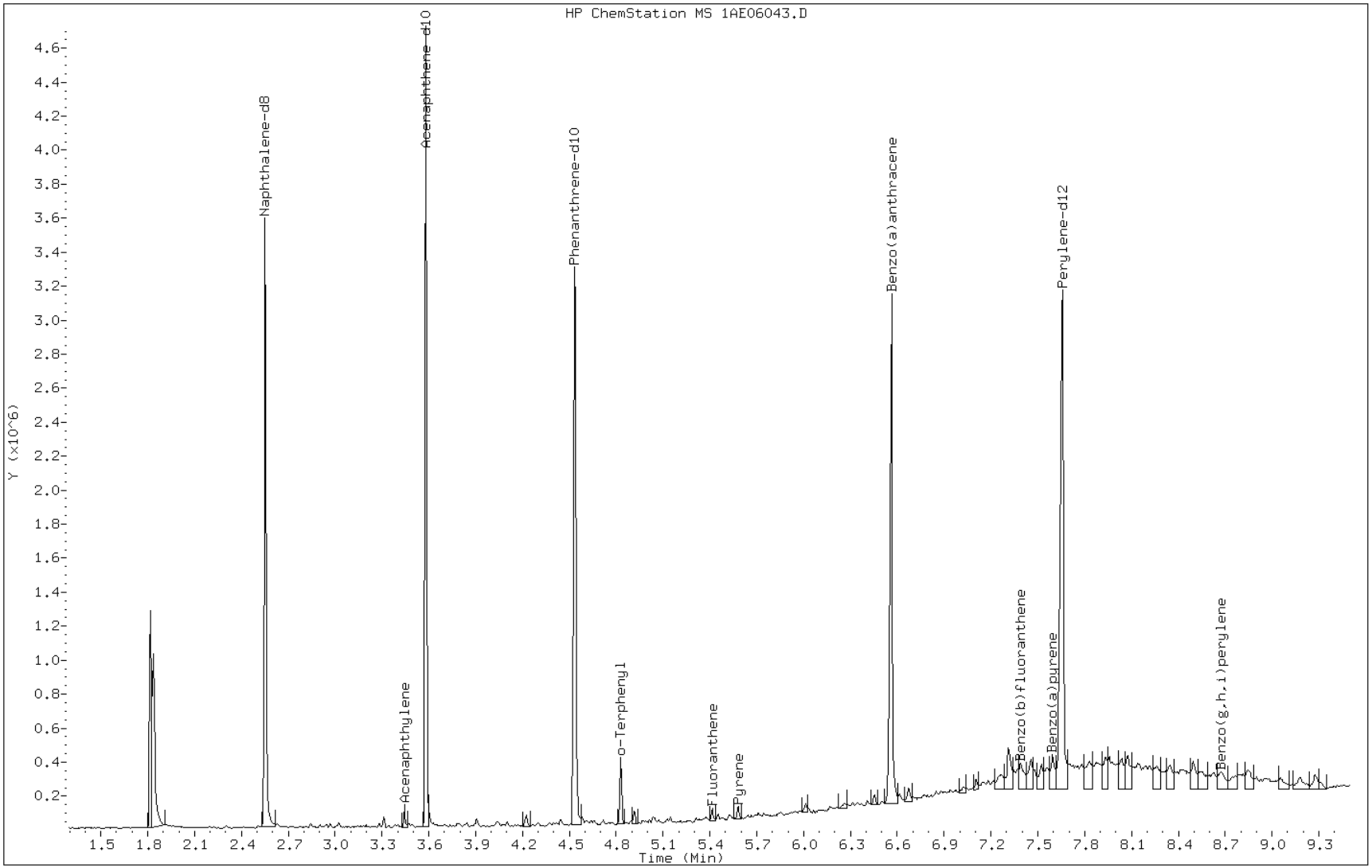
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC



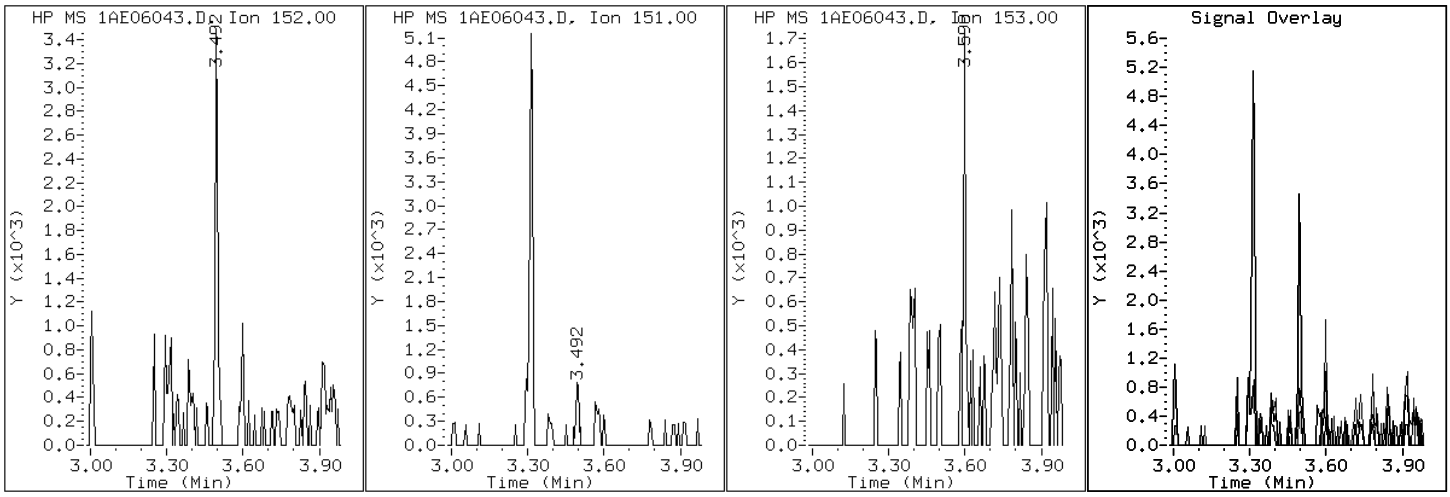
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

5 Acenaphthylene



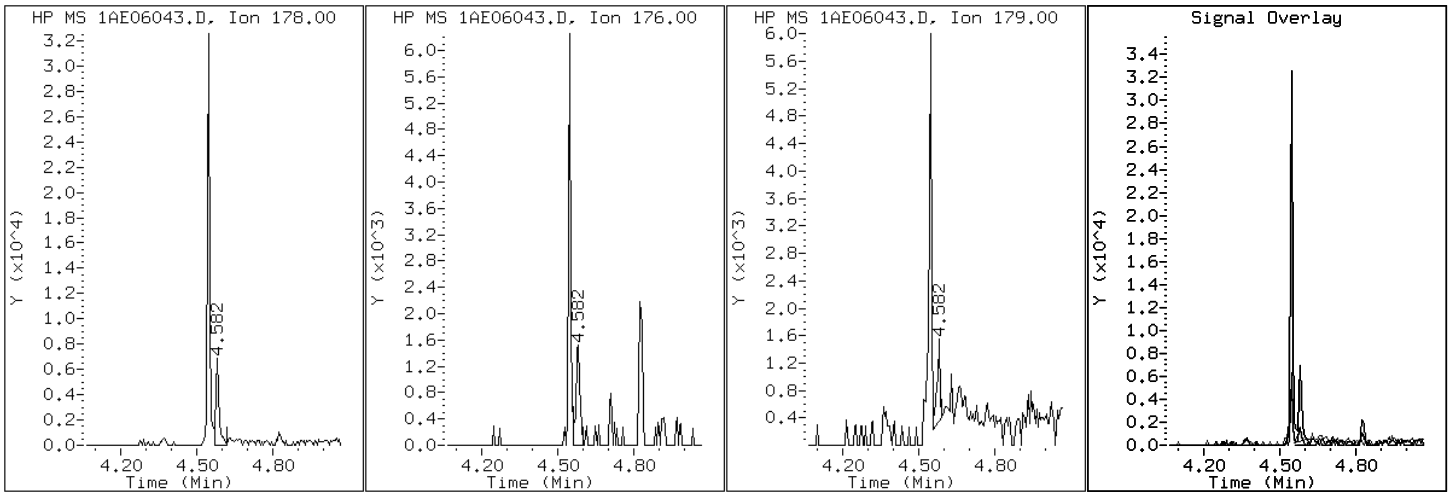
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

12 Anthracene



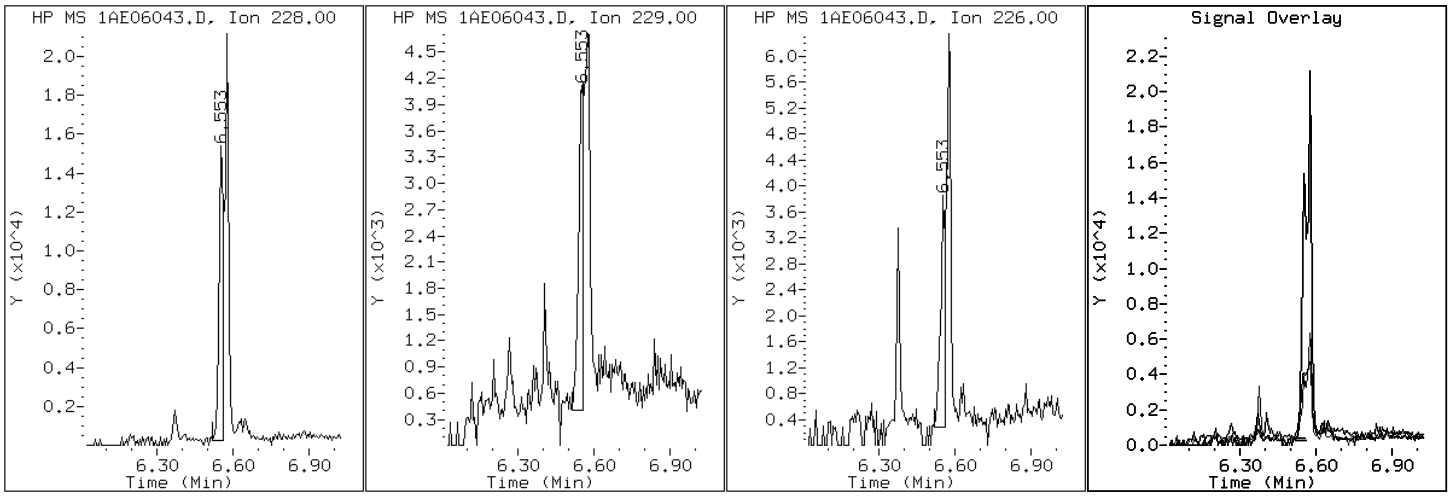
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

17 Benzo(a)anthracene



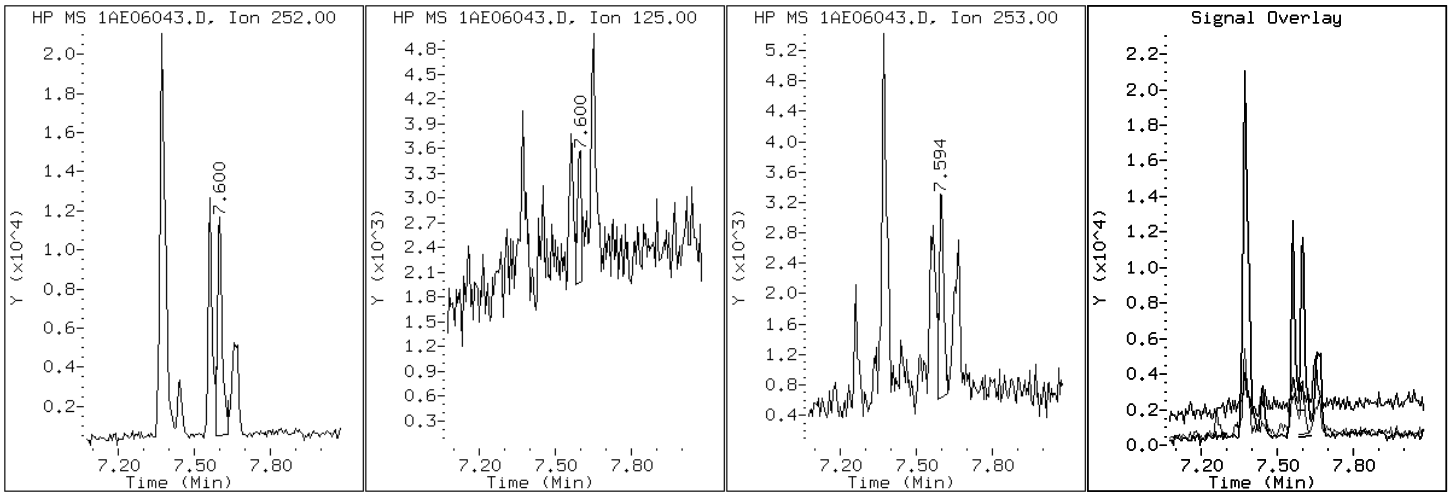
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

22 Benzo(a)pyrene



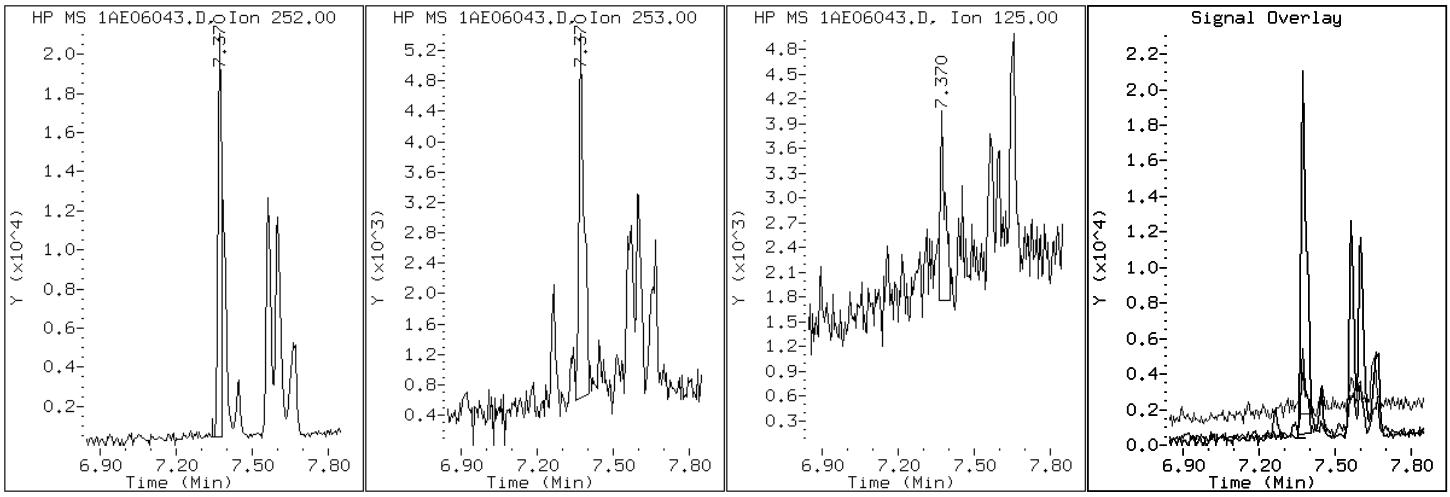
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

20 Benzo(b)fluoranthene



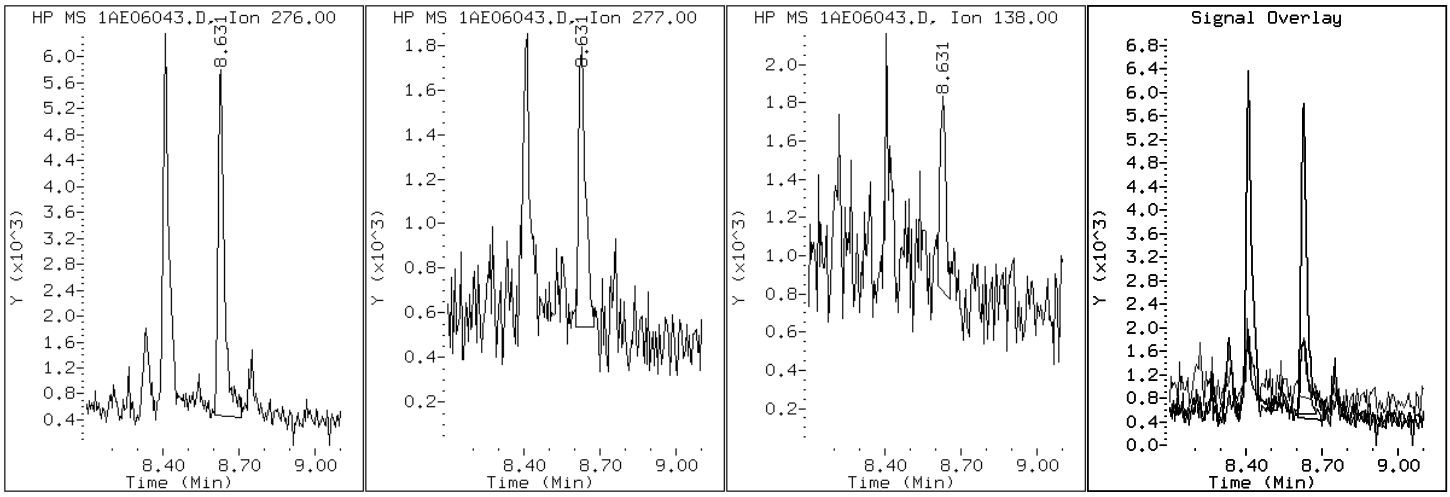
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

26 Benzo(g,h,i)perylene



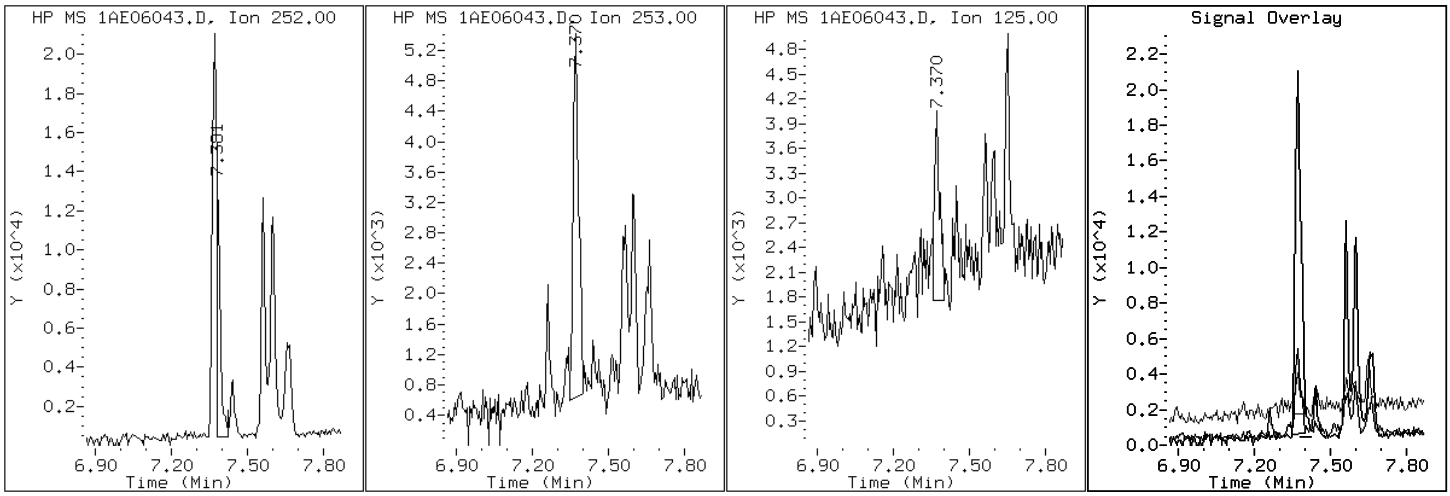
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

21 Benzo(k)fluoranthene



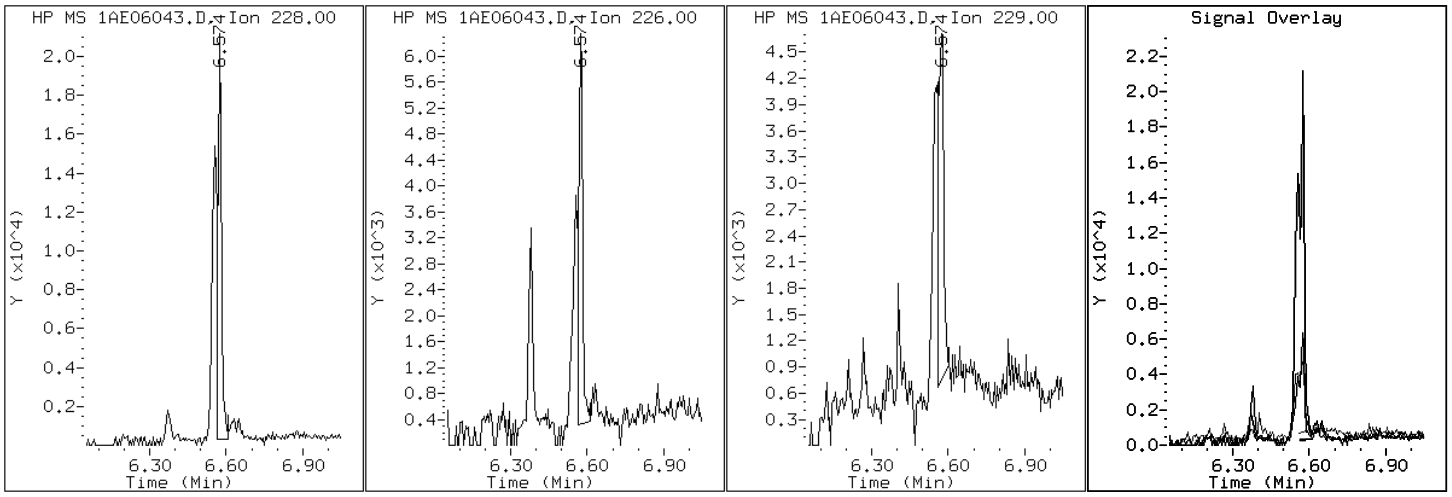
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

19 Chrysene



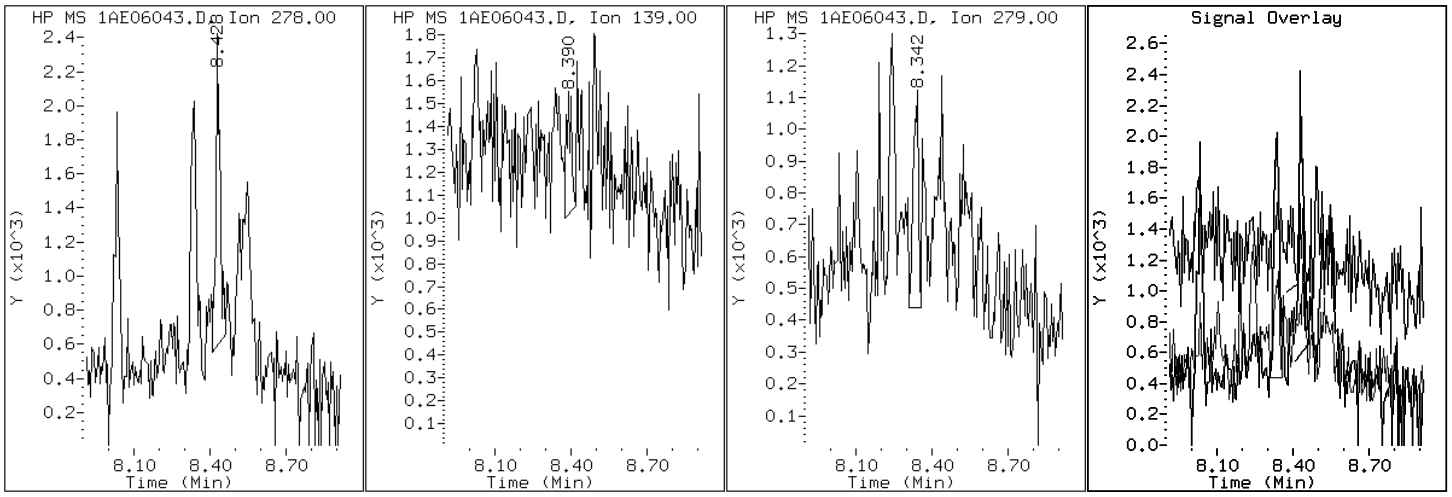
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

25 Dibenzo(a,h)anthracene



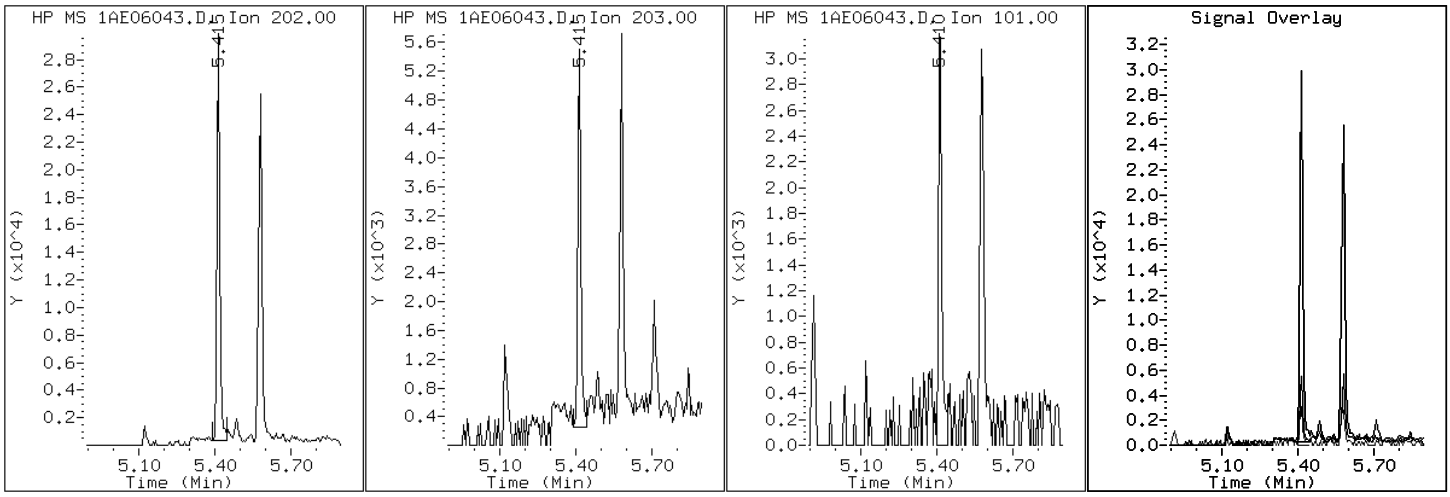
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

15 Fluoranthene



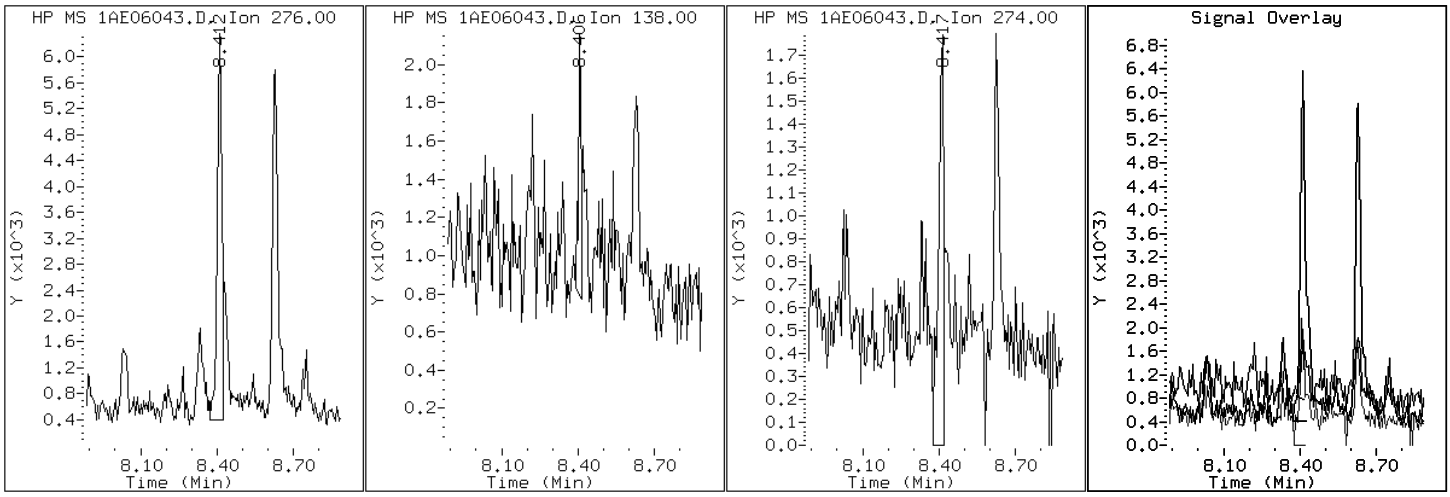
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

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



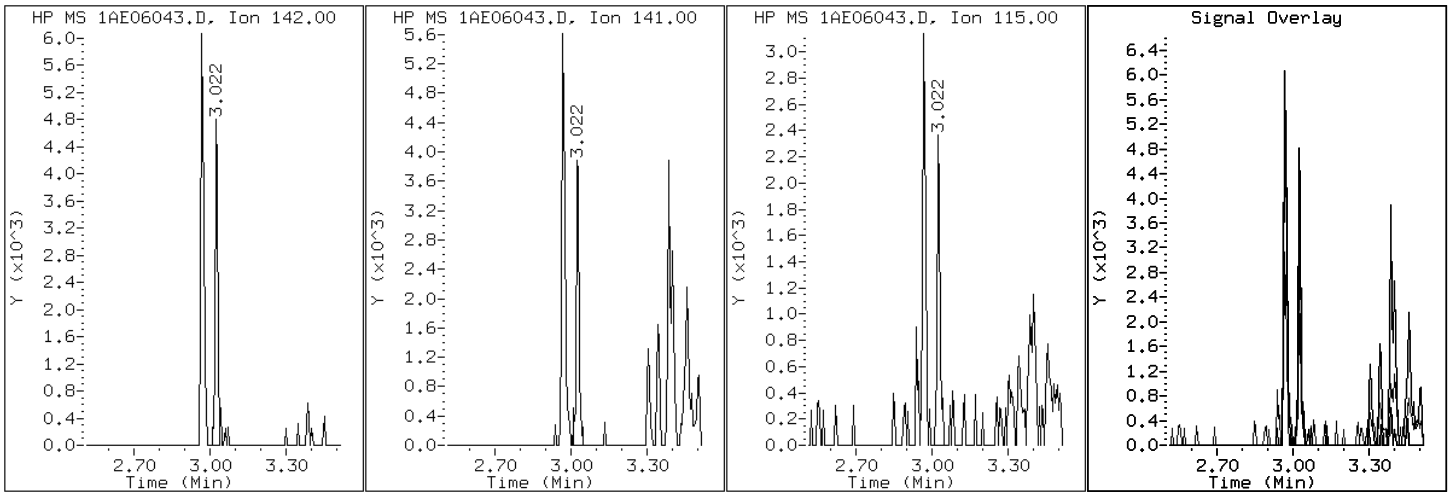
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

4 1-Methylnaphthalene



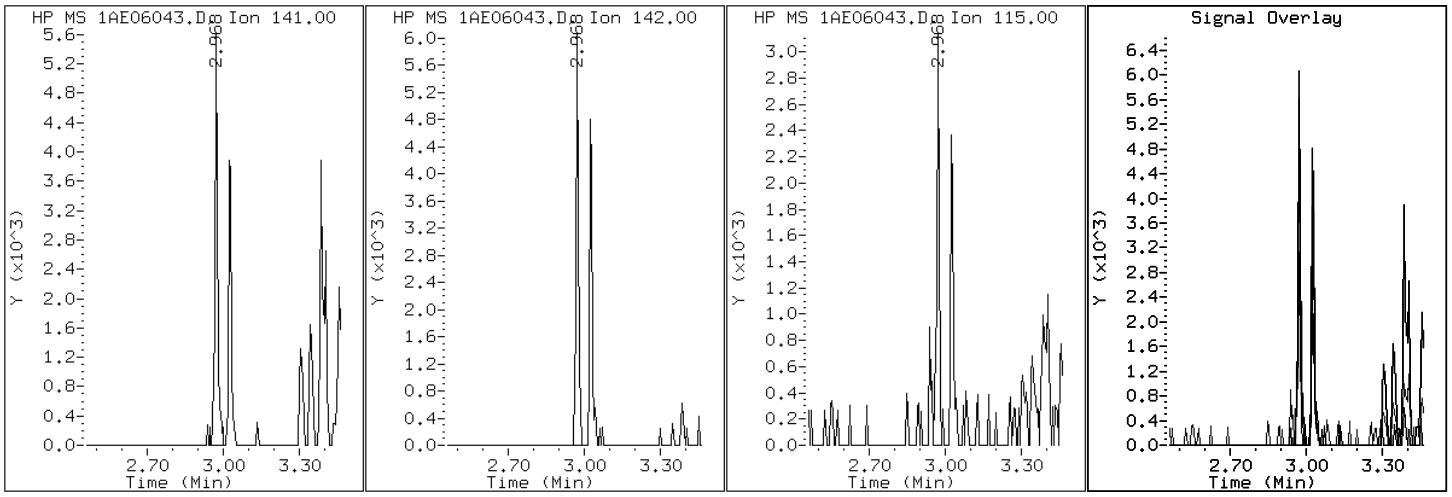
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

3 2-Methylnaphthalene



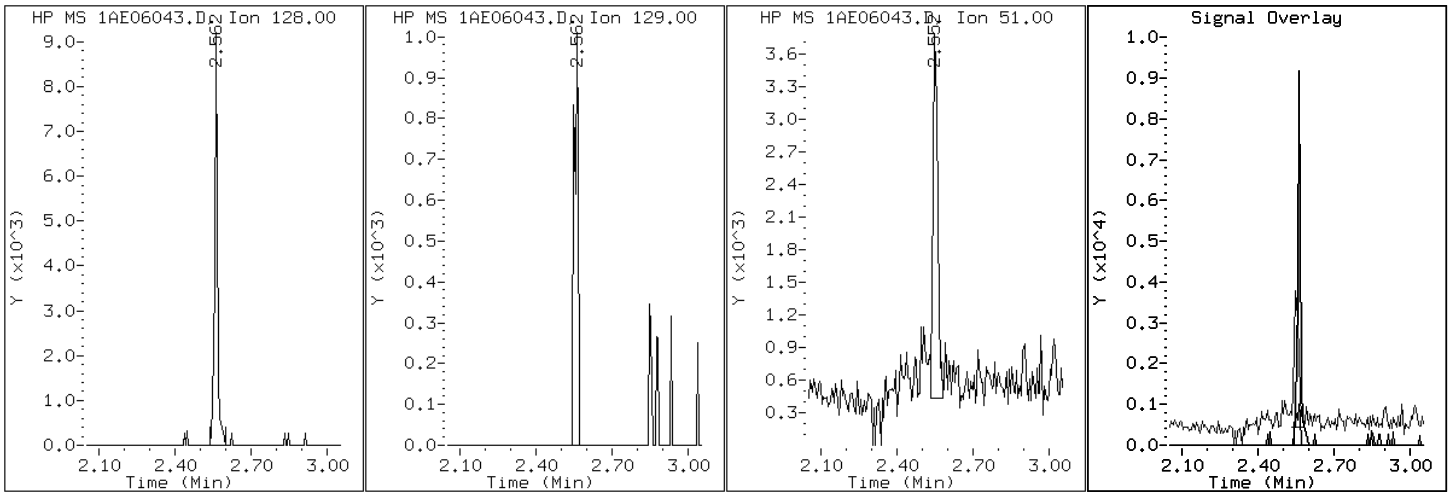
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

2 Naphthalene



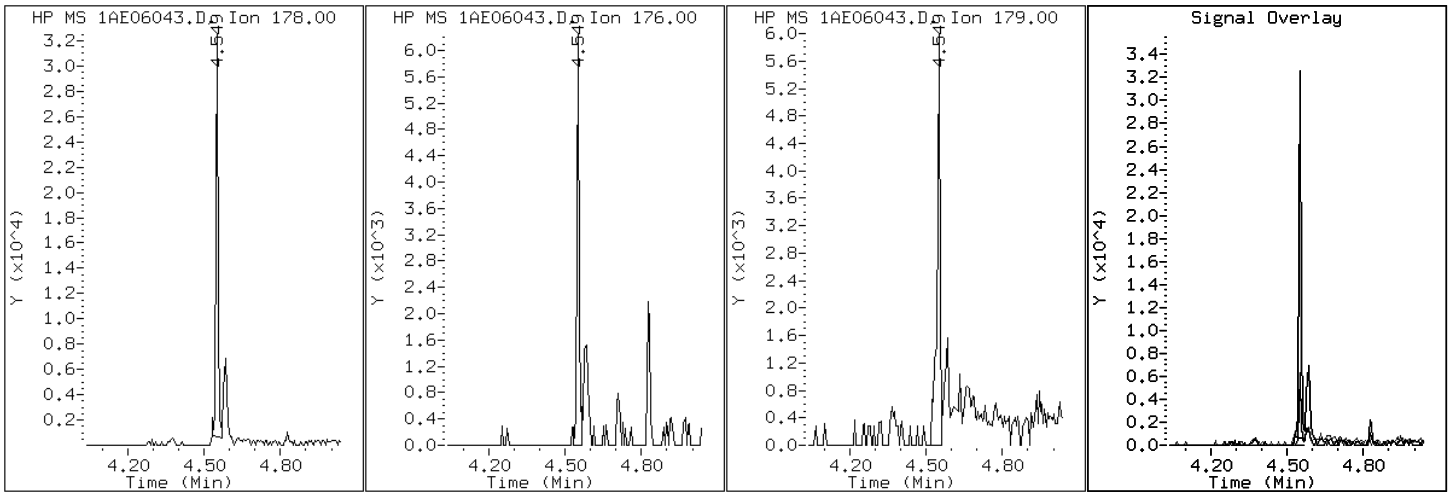
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

11 Phenanthrene



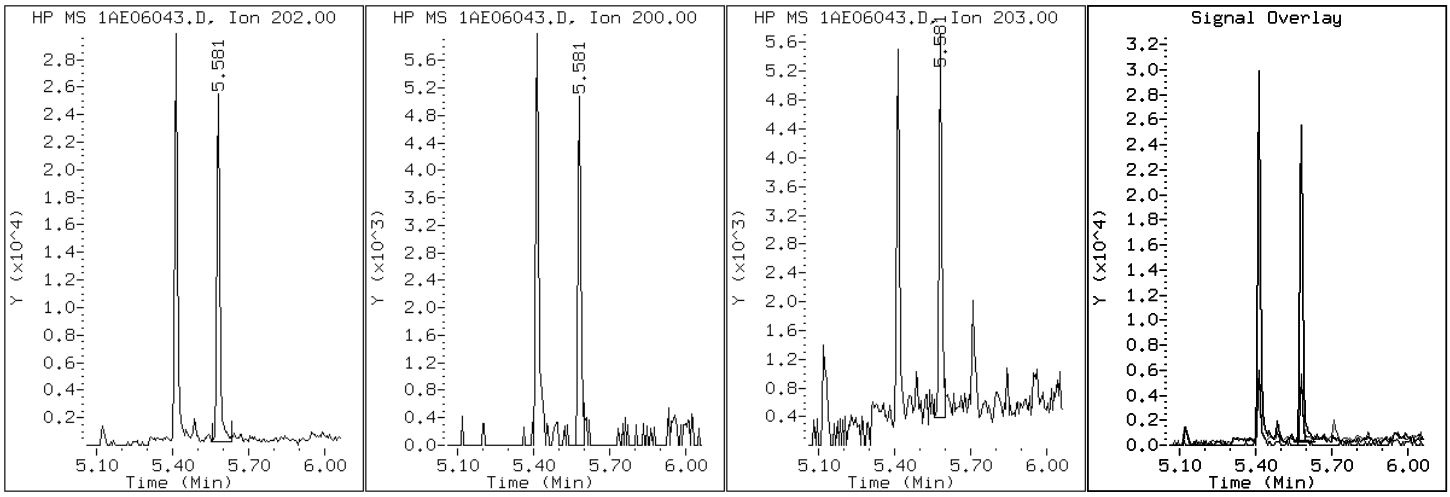
Data File: 1AE06043.D

Date: 06-MAY-2013 21:28

Client ID: CV0988B-CS Instrument: BSMA5973.i

Sample Info: 680-89896-a-19-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE06043.D
Inj. Date and Time: 06-MAY-2013 21:28
Instrument ID: BSMA5973.i
Client ID: CV0988B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

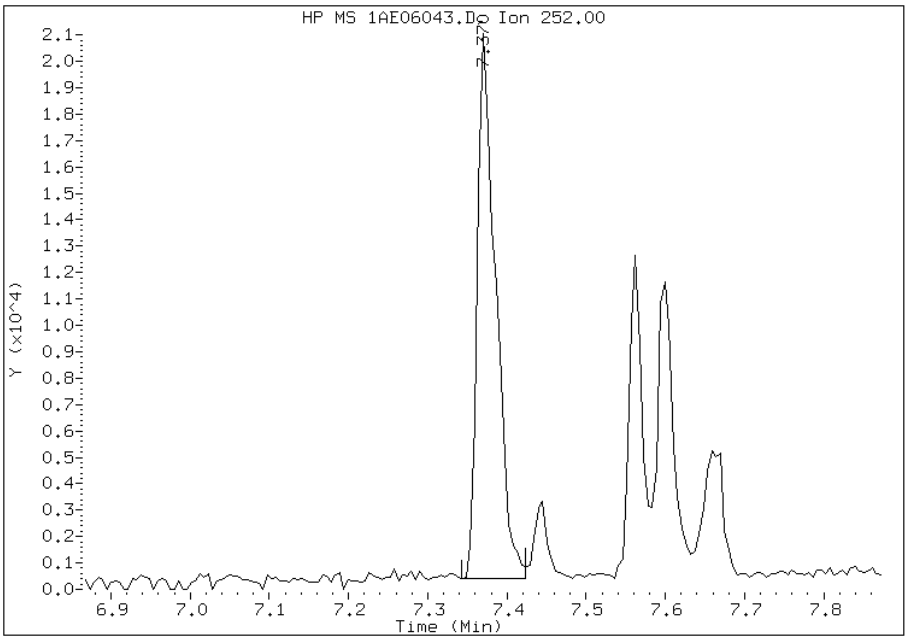
Processing Integration Results

RT: 7.37

Response: 32869

Amount: 1

Conc: 77



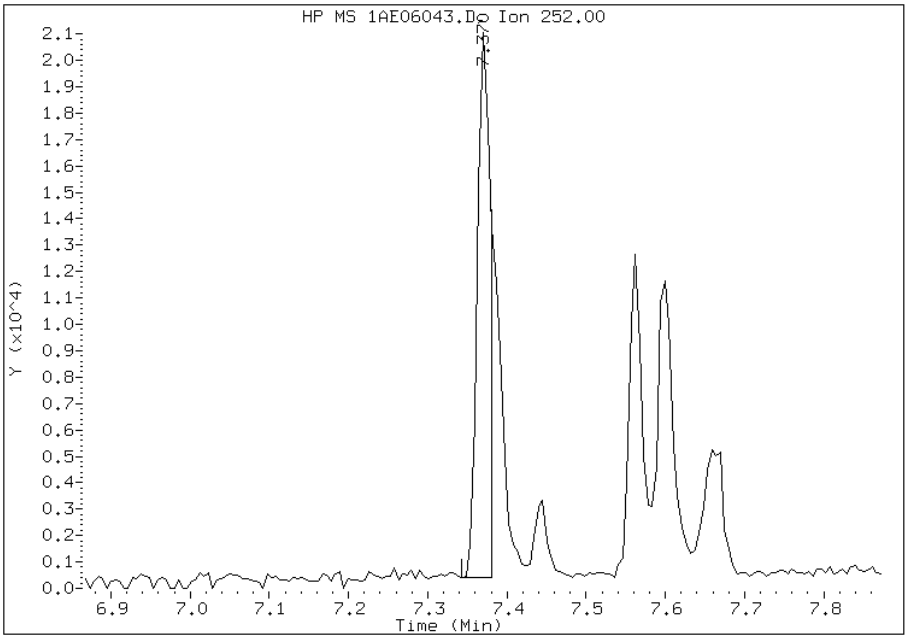
Manual Integration Results

RT: 7.37

Response: 23358

Amount: 1

Conc: 55



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:26
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06043.D
Inj. Date and Time: 06-MAY-2013 21:28
Instrument ID: BSMA5973.i
Client ID: CV0988B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

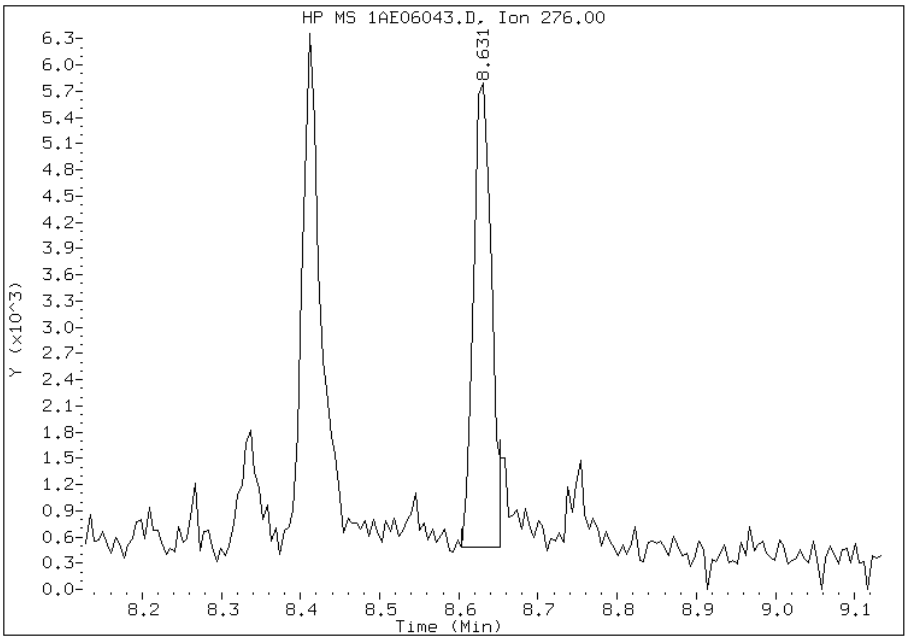
Processing Integration Results

RT: 8.63

Response: 8303

Amount: 0

Conc: 21



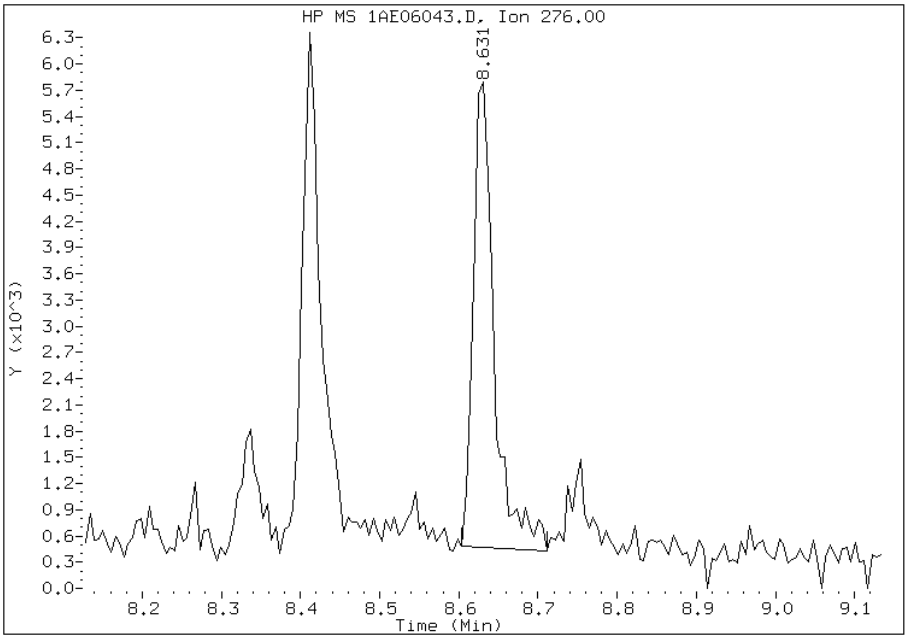
Manual Integration Results

RT: 8.63

Response: 9659

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06043.D
Inj. Date and Time: 06-MAY-2013 21:28
Instrument ID: BSMA5973.i
Client ID: CV0988B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

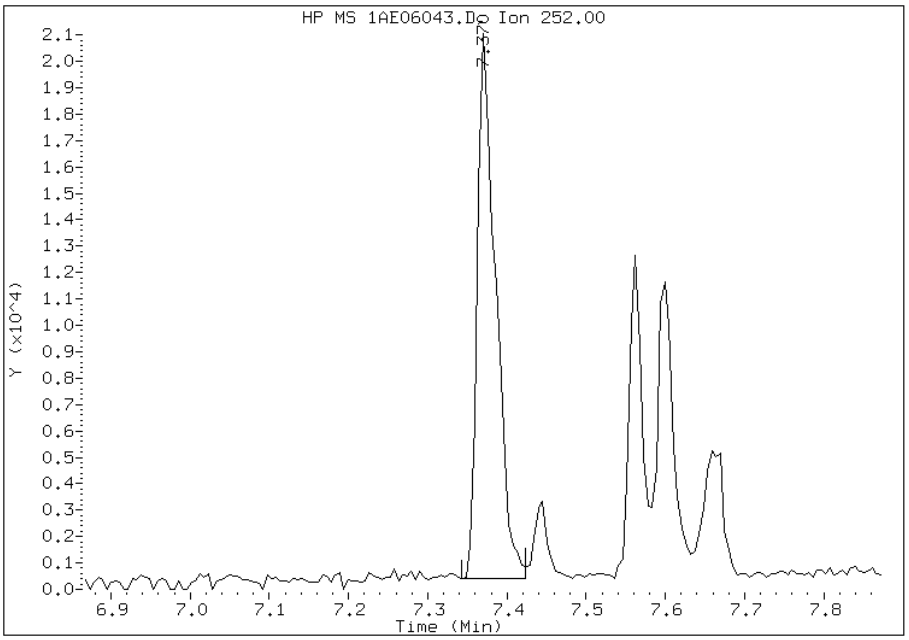
Processing Integration Results

RT: 7.37

Response: 32869

Amount: 1

Conc: 62



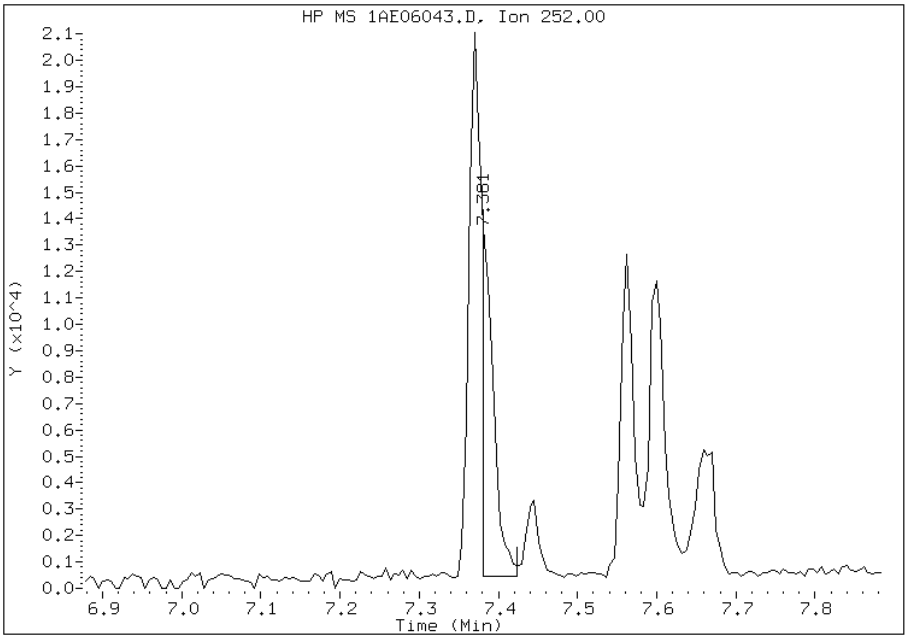
Manual Integration Results

RT: 7.38

Response: 13615

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06043.D
Inj. Date and Time: 06-MAY-2013 21:28
Instrument ID: BSMA5973.i
Client ID: CV0988B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

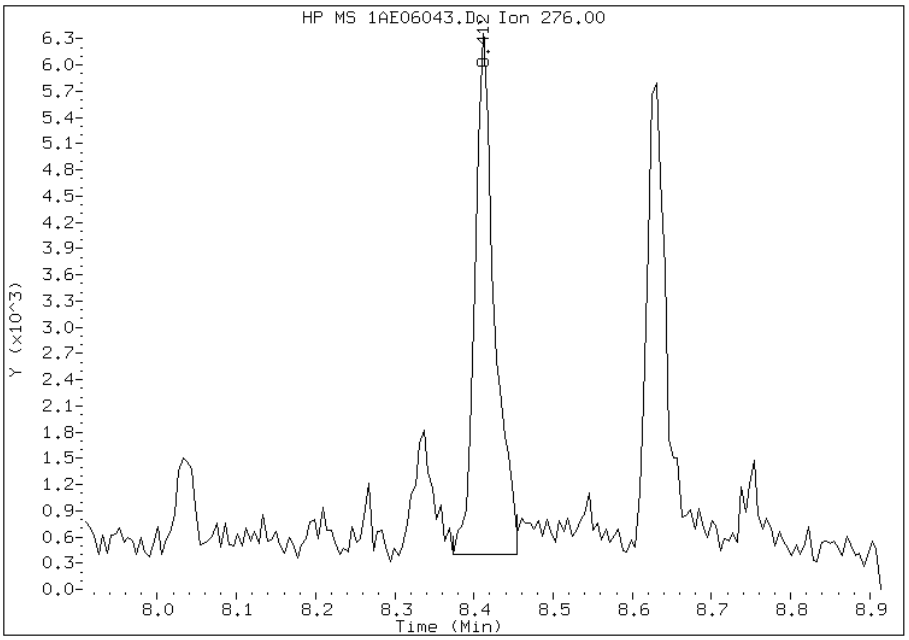
Processing Integration Results

RT: 8.41

Response: 10222

Amount: 0

Conc: 28



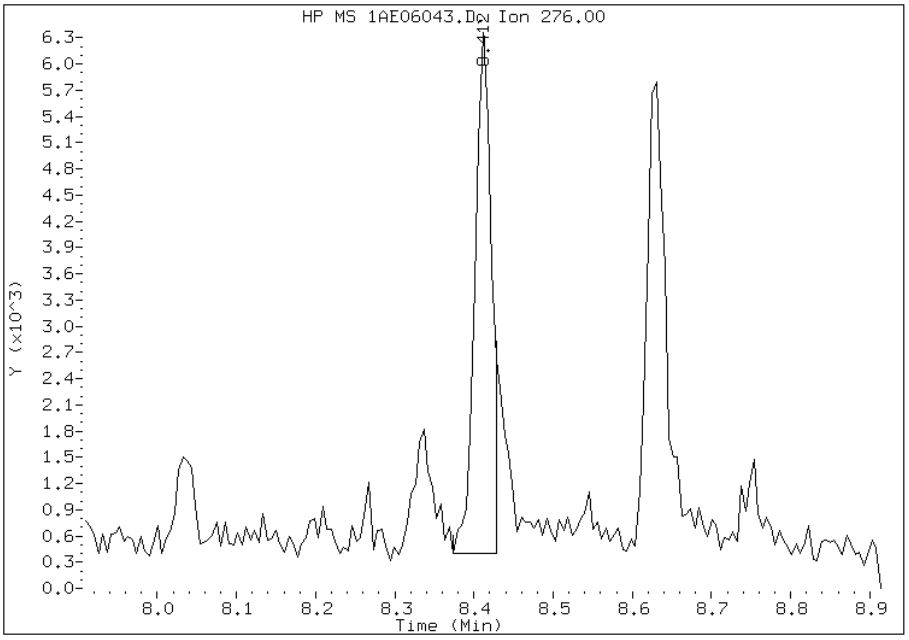
Manual Integration Results

RT: 8.41

Response: 8532

Amount: 0

Conc: 23



Manually Integrated By: cantins
Modification Date: 09-May-2013 10:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: 050113-RB-Bowls&Spoons | Lab Sample ID: 680-89896-23

Matrix: Water | Lab File ID: 1AE08008.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 09:30

Extract. Method: 3520C | Date Extracted: 05/07/2013 14:43

Sample wt/vol: 900(mL) | Date Analyzed: 05/08/2013 16:00

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.: 137292 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.2	U	2.2	0.56
208-96-8	Acenaphthylene	1.1	U	1.1	0.28
120-12-7	Anthracene	0.22	U	0.22	0.084
56-55-3	Benzo[a]anthracene	0.22	U	0.22	0.056
50-32-8	Benzo[a]pyrene	0.22	U	0.22	0.063
205-99-2	Benzo[b]fluoranthene	0.22	U	0.22	0.056
191-24-2	Benzo[g,h,i]perylene	0.56	U F	0.56	0.11
207-08-9	Benzo[k]fluoranthene	0.22	U	0.22	0.063
218-01-9	Chrysene	0.22	U	0.22	0.077
53-70-3	Dibenz(a,h)anthracene	0.22	U	0.22	0.056
206-44-0	Fluoranthene	0.56	U	0.56	0.060
86-73-7	Fluorene	2.2	U	2.2	0.56
193-39-5	Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.056
90-12-0	1-Methylnaphthalene	2.2	U	2.2	0.56
91-57-6	2-Methylnaphthalene	2.2	U	2.2	0.56
91-20-3	Naphthalene	2.2	U	2.2	0.28
85-01-8	Phenanthrene	0.56	U	0.56	0.22
129-00-0	Pyrene	0.56	U	0.56	0.099

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\1A050813.b\1AE08008.D
Lab Smp Id: 680-89896-A-23-A Client Smp ID: 050113-RB-Bowls&Spo
Inj Date : 08-MAY-2013 16:00
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-23-a
Misc Info : 680-89896-A-23-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\a-bFASTPAHi-m.m
Meth Date : 08-May-2013 14:46 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 8
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	900.000	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

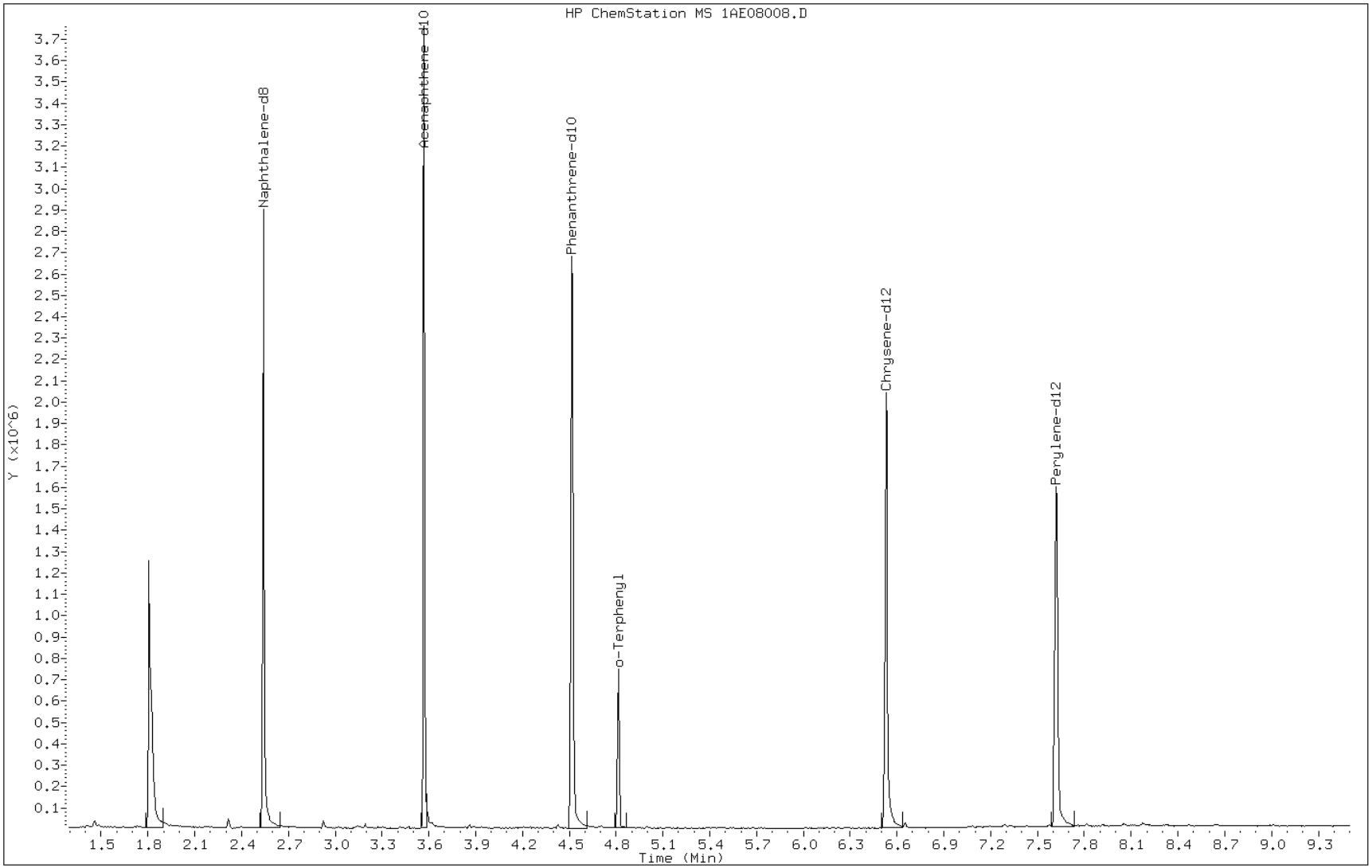
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/l)
* 1 Naphthalene-d8	136	2.538	2.541	(1.000)	1110122	40.0000	
* 6 Acenaphthene-d10	164	3.569	3.572	(1.000)	603882	40.0000	
* 10 Phenanthrene-d10	188	4.515	4.523	(1.000)	1028130	40.0000	
$ 14 o-Terphenyl	230	4.814	4.817	(1.066)	119399	8.11422	9.0158
* 18 Chrysene-d12	240	6.529	6.542	(1.000)	912263	40.0000	
* 23 Perylene-d12	264	7.624	7.632	(1.000)	778157	40.0000	

Data File: 1AE08008.D

Date: 08-MAY-2013 16:00

Client ID: 050113-RB-Bowls&Spo Instrument: BSMA5973.i

Sample Info: 680-89896-a-23-a Operator: SCC



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89896-1 Analy Batch No.: 136892

SDG No.: 68089896-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136892/3	1AD26003.D
Level 2	IC 660-136892/4	1AD26004.D
Level 3	IC 660-136892/5	1AD26005.D
Level 4	IC 660-136892/6	1AD26006.D
Level 5	ICIS 660-136892/7	1AD26007.D
Level 6	IC 660-136892/8	1AD26008.D
Level 7	IC 660-136892/9	1AD26009.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	0.9807 0.9678	1.0732 0.8900	1.0807	1.0246	0.9825	Ave		0.9999			0.0000	6.6		15.0			
2-Methylnaphthalene	0.5475 0.5304	0.6500 0.4770	0.6525	0.5874	0.5679	Ave		0.5733			0.0000	11.1		15.0			
1-Methylnaphthalene	0.6553 0.5728	0.7316 0.5089	0.7301	0.6482	0.5991	Ave		0.6351			0.0000	12.9		15.0			
Acenaphthylene	2.3664 2.1362	2.6542 1.8462	2.6916	2.4314	2.2380	Ave		2.3377			0.0000	12.7		15.0			
Acenaphthene	1.4118 1.1125	1.4011 0.9341	1.3816	1.2190	1.1215	Ave		1.2260			0.0000	14.8		15.0			
Fluorene	1.5097 1.3767	1.6462 1.1794	1.6636	1.5206	1.4287	Ave		1.4750			0.0000	11.3		15.0			
Phenanthrene	1.3907 1.0142	1.2926 0.9287	1.2725	1.1400	1.0724	Ave		1.1587			0.0000	14.4		15.0			
Anthracene	1.3104 1.0706	1.3619 0.9491	1.3564	1.2393	1.1461	Ave		1.2048			0.0000	13.0		15.0			
Carbazole	1.1993 1.0651	1.2721 1.0036	1.3075	1.1642	1.1242	Ave		1.1623			0.0000	9.3		15.0			
Fluoranthene	1.3009 1.2420	1.4074 1.1640	1.5310	1.3979	1.3252	Ave		1.3383			0.0000	9.0		15.0			
Pyrene	1.4167 1.4769	1.6244 1.4080	1.6725	1.5706	1.5132	Ave		1.5260			0.0000	6.6		15.0			
Benzo[a]anthracene	1.5532 1.2283	1.2438 1.3069	1.3074	1.2316	1.2729	Ave		1.3063			0.0000	8.7		15.0			
Chrysene	1.5597 1.2058	1.4759 1.1272	1.3919	1.3009	1.2153	Ave		1.3253			0.0000	11.9		15.0			
Benzo[b]fluoranthene	1.0058 1.1221	1.2872 1.1499	1.3036	1.2968	1.3352	Ave		1.2144			0.0000	10.1		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.: 680-89896-1 Analy Batch No.: 136892

SDG No.: 68089896-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

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	1.5807 1.2951	1.4811 1.1583	1.6305	1.3756	1.2523	Ave		1.3962			0.0000	12.5		15.0			
Benzo[a]pyrene	1.0264 1.1766	1.1712 1.1154	1.3812	1.3107	1.2749	Ave		1.2081			0.0000	10.1		15.0			
Indeno[1,2,3-cd]pyrene	0.9109 1.1772	1.0019 1.2427	1.2020	1.2085	1.2416	Ave		1.1407			0.0000	11.4		15.0			
Dibenz(a,h)anthracene	0.8117 1.0574	1.0829 1.0146	1.2099	1.1482	1.1048	Ave		1.0613			0.0000	11.9		15.0			
Benzo[g,h,i]perylene	1.1500 1.2201	1.3387 1.2159	1.4017	1.3373	1.2727	Ave		1.2766			0.0000	6.9		15.0			
o-Terphenyl	0.7073 0.5831	0.7372 0.5170	0.7524	0.6639	0.6189	Ave		0.6543			0.0000	13.2		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.: 680-89896-1 Analy Batch No.: 136892

SDG No.: 68089896-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136892/3	1AD26003.D
Level 2	IC 660-136892/4	1AD26004.D
Level 3	IC 660-136892/5	1AD26005.D
Level 4	IC 660-136892/6	1AD26006.D
Level 5	ICIS 660-136892/7	1AD26007.D
Level 6	IC 660-136892/8	1AD26008.D
Level 7	IC 660-136892/9	1AD26009.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	11316 1510520	61217 2445644	320082	595222	1158716	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	6318 827941	37078 1310841	193264	341254	669822	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	7562 894050	41731 1398370	216239	376560	706538	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	12402 1556064	68056 2504346	366926	648059	1265667	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	7399 810394	35926 1267057	188346	324917	634267	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	7912 1002855	42211 1599840	226787	405299	807968	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	12552 1299367	56771 2139281	300982	533287	1040972	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	11827 1371502	59817 2186210	320832	579771	1112517	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	10825 1364561	55869 2311786	309273	544612	1091227	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11742 1591115	61813 2681447	362121	653973	1286350	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12588 1716784	69806 2760027	387490	693219	1367080	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	13801 1427778	53450 2561817	302918	543586	1149947	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	13859 1401601	63425 2209729	322491	574179	1097962	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	9306 1402018	56273 2501570	315397	597877	1243307	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	14625 1618107	64750 2519945	394484	634191	1166129	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.: 680-89896-1 Analy Batch No.: 136892

SDG No.: 68089896-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

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	9497 1470103	51202 2426657	334183	604286	1187145	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	8428 1470861	43801 2703546	290809	557142	1156108	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	7510 1321140	47341 2207196	292736	529334	1028761	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	10640 1524482	58526 2645132	339141	616524	1185137	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	6384 747046	32378 1190919	177967	310562	600782	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\BSMA5973.i\1A042613.b\1AD26003.D
Lab Smp Id: IC-1531396
Inj Date : 26-APR-2013 10:03
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 11:03 Cal File: 1AD26007.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.578	2.580	(1.000)	2307813	40.0000	
* 6 Acenaphthene-d10	164	3.609	3.606	(1.000)	1048180	40.0000	
* 10 Phenanthrene-d10	188	4.560	4.562	(1.000)	1805166	40.0000	
$ 14 o-Terphenyl	230	4.859	4.861	(1.066)	6384	0.20000	0.1909
* 18 Chrysene-d12	240	6.579	6.581	(1.000)	1777148	40.0000	
* 23 Perylene-d12	264	7.664	7.666	(1.000)	1850467	40.0000	
2 Naphthalene	128	2.589	2.591	(1.004)	11316	0.20000	0.2368
3 2-Methylnaphthalene	141	2.995	2.997	(1.162)	6318	0.20000	0.2274
4 1-Methylnaphthalene	142	3.048	3.050	(1.182)	7562	0.20000	0.1607
5 Acenaphthylene	152	3.518	3.520	(0.975)	12402	0.20000	0.3039
7 Acenaphthene	154	3.625	3.627	(1.004)	7399	0.20000	0.4114
9 Fluorene	166	3.935	3.942	(1.090)	7912	0.20000	0.4114
11 Phenanthrene	178	4.571	4.578	(1.002)	12552	0.20000	0.1032
12 Anthracene	178	4.603	4.610	(1.009)	11827	0.20000	0.2150
13 Carbazole	167	4.731	4.738	(1.037)	10825	0.20000	0.0501
15 Fluoranthene	202	5.436	5.438	(1.192)	11742	0.20000	0.0685
16 Pyrene	202	5.602	5.604	(0.851)	12588	0.20000	0.1856
17 Benzo(a)anthracene	228	6.569	6.565	(0.998)	13801	0.20000	0.2377
19 Chrysene	228	6.590	6.597	(1.002)	13859	0.20000	0.2353
20 Benzo(b)fluoranthene	252	7.381	7.388	(0.963)	9306	0.20000	0.1656
21 Benzo(k)fluoranthene	252	7.397	7.409	(0.965)	14625	0.20000	0.2264(M)
22 Benzo(a)pyrene	252	7.605	7.612	(0.992)	9497	0.20000	-0.7697(a)
24 Indeno(1,2,3-cd)pyrene	276	8.417	8.430	(1.098)	8428	0.20000	0.3771(M)
25 Dibenzo(a,h)anthracene	278	8.444	8.457	(1.102)	7510	0.20000	0.1529
26 Benzo(g,h,i)perylene	276	8.631	8.654	(1.126)	10640	0.20000	0.1801(M)

QC Flag Legend

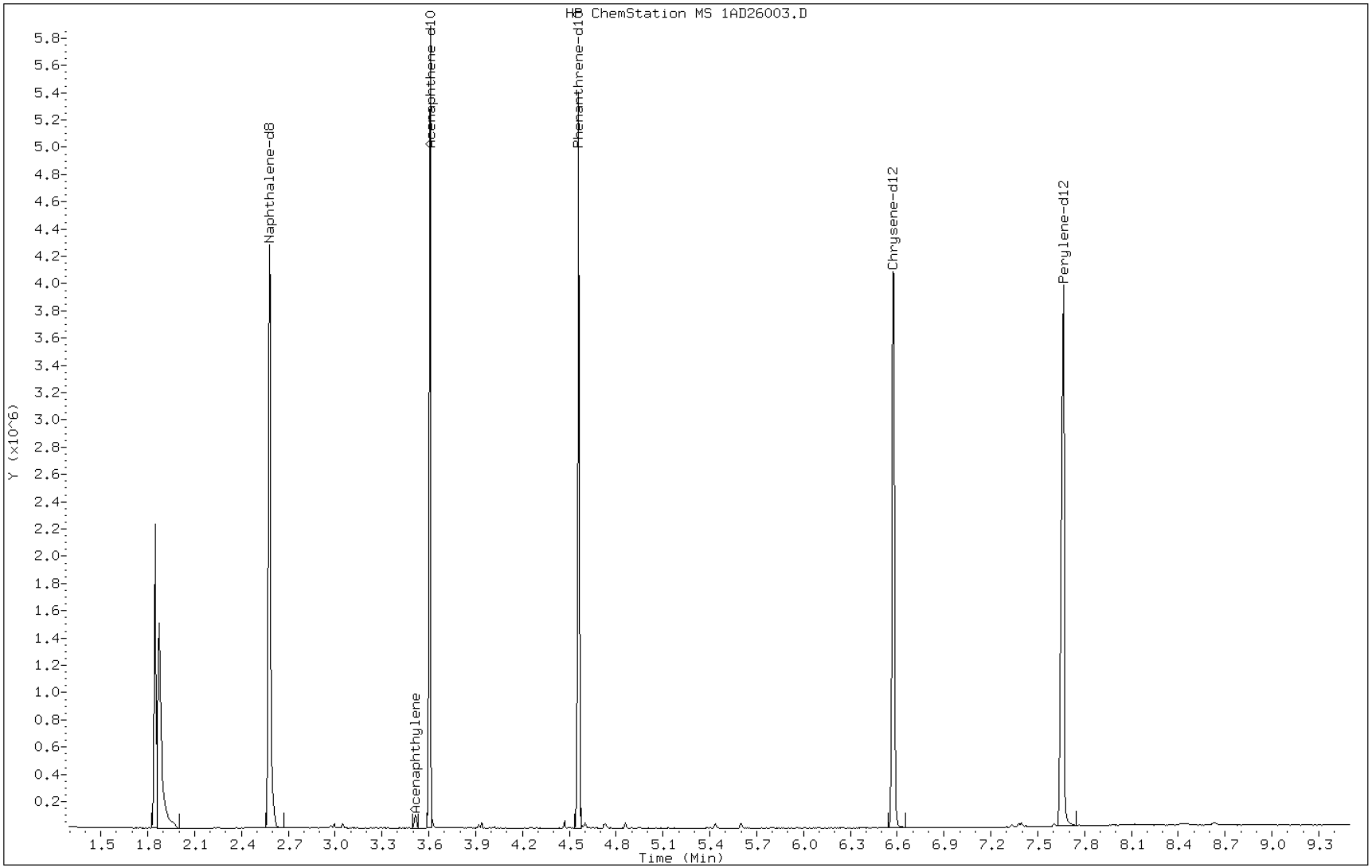
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: 1AD26003.D

Date: 26-APR-2013 10:03

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1AD26003.D
Inj. Date and Time: 26-APR-2013 10:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/26/2013

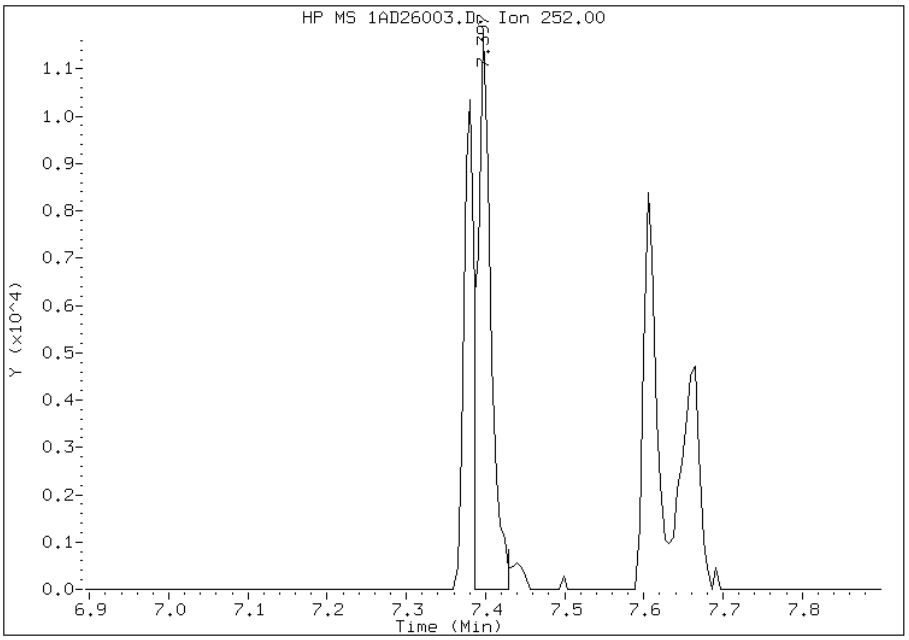
Processing Integration Results

RT: 7.40

Response: 14089

Amount: 0

Conc: 0



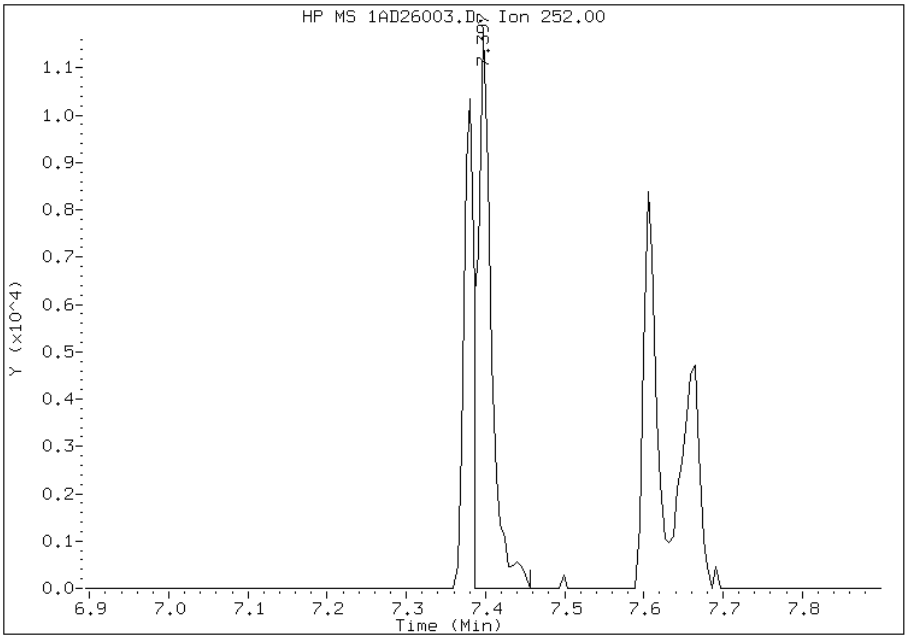
Manual Integration Results

RT: 7.40

Response: 14625

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26003.D
Inj. Date and Time: 26-APR-2013 10:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

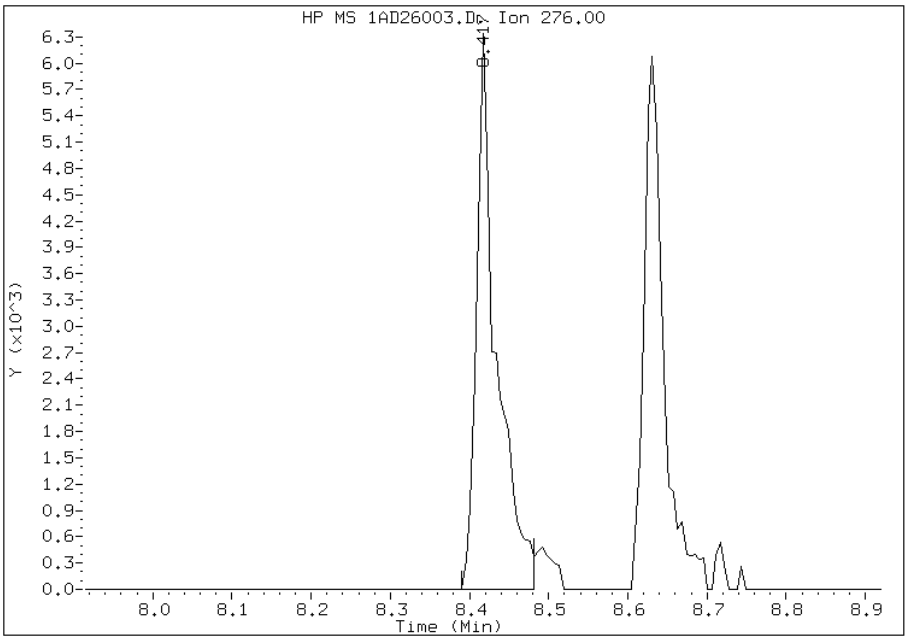
Processing Integration Results

RT: 8.42

Response: 10930

Amount: 0

Conc: 0



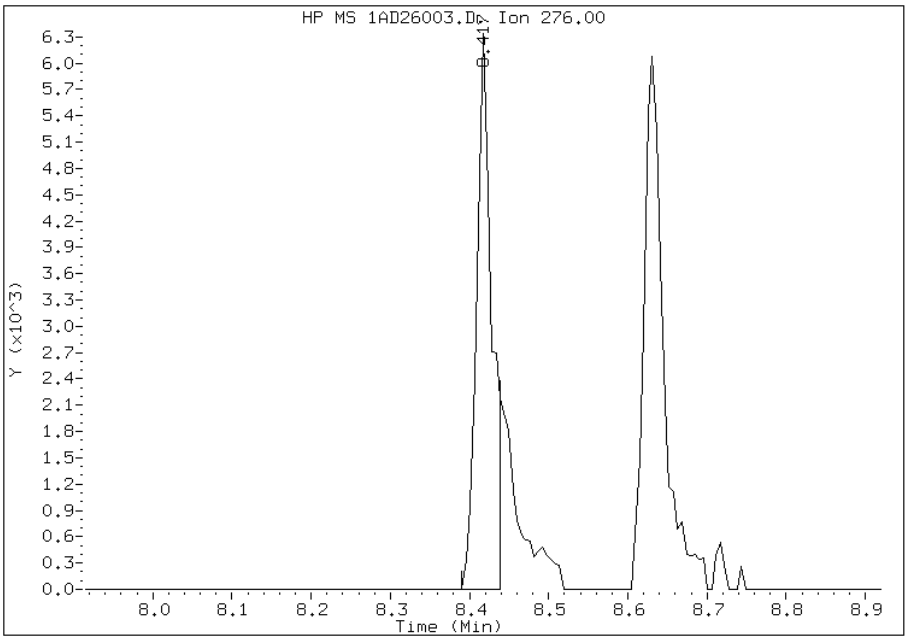
Manual Integration Results

RT: 8.42

Response: 8428

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD26003.D
Inj. Date and Time: 26-APR-2013 10:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

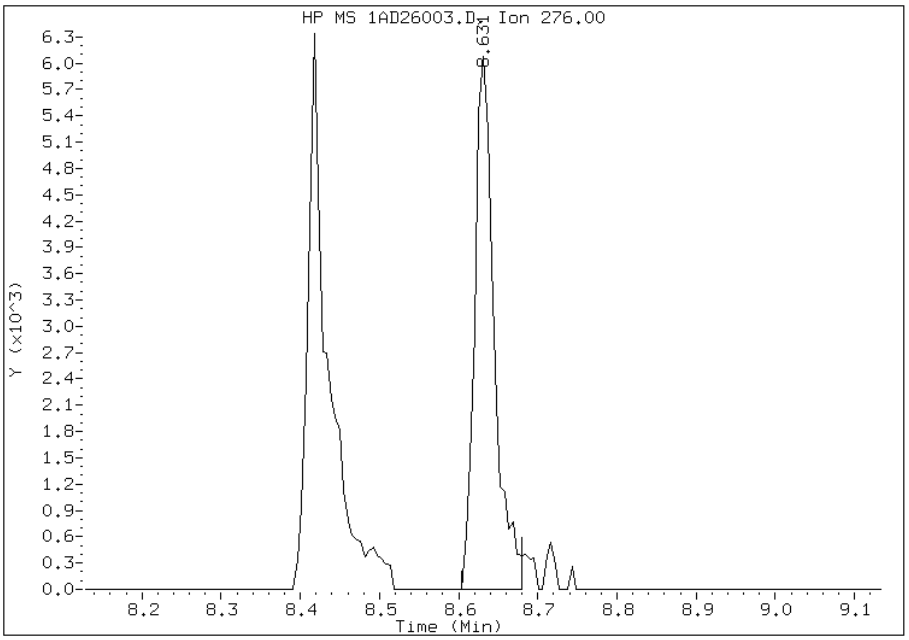
Processing Integration Results

RT: 8.63

Response: 10297

Amount: 0

Conc: 0



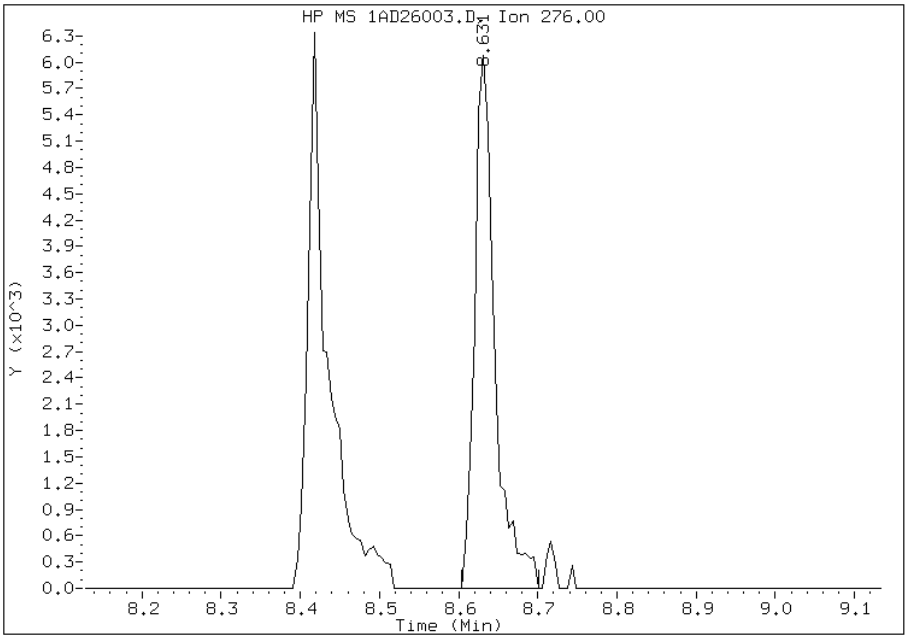
Manual Integration Results

RT: 8.63

Response: 10640

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:51
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26004.D
Lab Smp Id: IC-1531398
Inj Date : 26-APR-2013 10:18
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 10:03 Cal File: 1AD26003.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.581	2.580	(1.000)	2281622	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1025638	40.0000	
* 10 Phenanthrene-d10	188	4.558	4.562	(1.000)	1756807	40.0000	
$ 14 o-Terphenyl	230	4.857	4.861	(1.066)	32378	1.00000	0.9805
* 18 Chrysene-d12	240	6.577	6.581	(1.000)	1718926	40.0000	
* 23 Perylene-d12	264	7.656	7.666	(1.000)	1748681	40.0000	
2 Naphthalene	128	2.592	2.591	(1.004)	61217	1.00000	1.0359
3 2-Methylnaphthalene	141	2.993	2.997	(1.159)	37078	1.00000	1.0345
4 1-Methylnaphthalene	142	3.051	3.050	(1.182)	41731	1.00000	0.9917
5 Acenaphthylene	152	3.516	3.520	(0.975)	68056	1.00000	1.0573
7 Acenaphthene	154	3.623	3.627	(1.004)	35926	1.00000	1.1516
9 Fluorene	166	3.938	3.942	(1.092)	42211	1.00000	1.1307
11 Phenanthrene	178	4.574	4.578	(1.004)	56771	1.00000	0.9390
12 Anthracene	178	4.606	4.610	(1.011)	59817	1.00000	0.9961
13 Carbazole	167	4.734	4.738	(1.039)	55869	1.00000	0.9041
15 Fluoranthene	202	5.434	5.438	(1.192)	61813	1.00000	0.8589
16 Pyrene	202	5.600	5.604	(0.851)	69806	1.00000	1.0644
17 Benzo(a)anthracene	228	6.561	6.565	(0.998)	53450	1.00000	0.9521
19 Chrysene	228	6.588	6.597	(1.002)	63425	1.00000	1.1136
20 Benzo(b)fluoranthene	252	7.379	7.388	(0.964)	56273	1.00000	1.0599
21 Benzo(k)fluoranthene	252	7.400	7.409	(0.967)	64750	1.00000	1.0607(M)
22 Benzo(a)pyrene	252	7.603	7.612	(0.993)	51202	1.00000	0.0904
24 Indeno(1,2,3-cd)pyrene	276	8.410	8.430	(1.098)	43801	1.00000	1.0407(M)
25 Dibenzo(a,h)anthracene	278	8.436	8.457	(1.102)	47341	1.00000	1.0203(M)
26 Benzo(g,h,i)perylene	276	8.623	8.654	(1.126)	58526	1.00000	1.0486(M)

QC Flag Legend

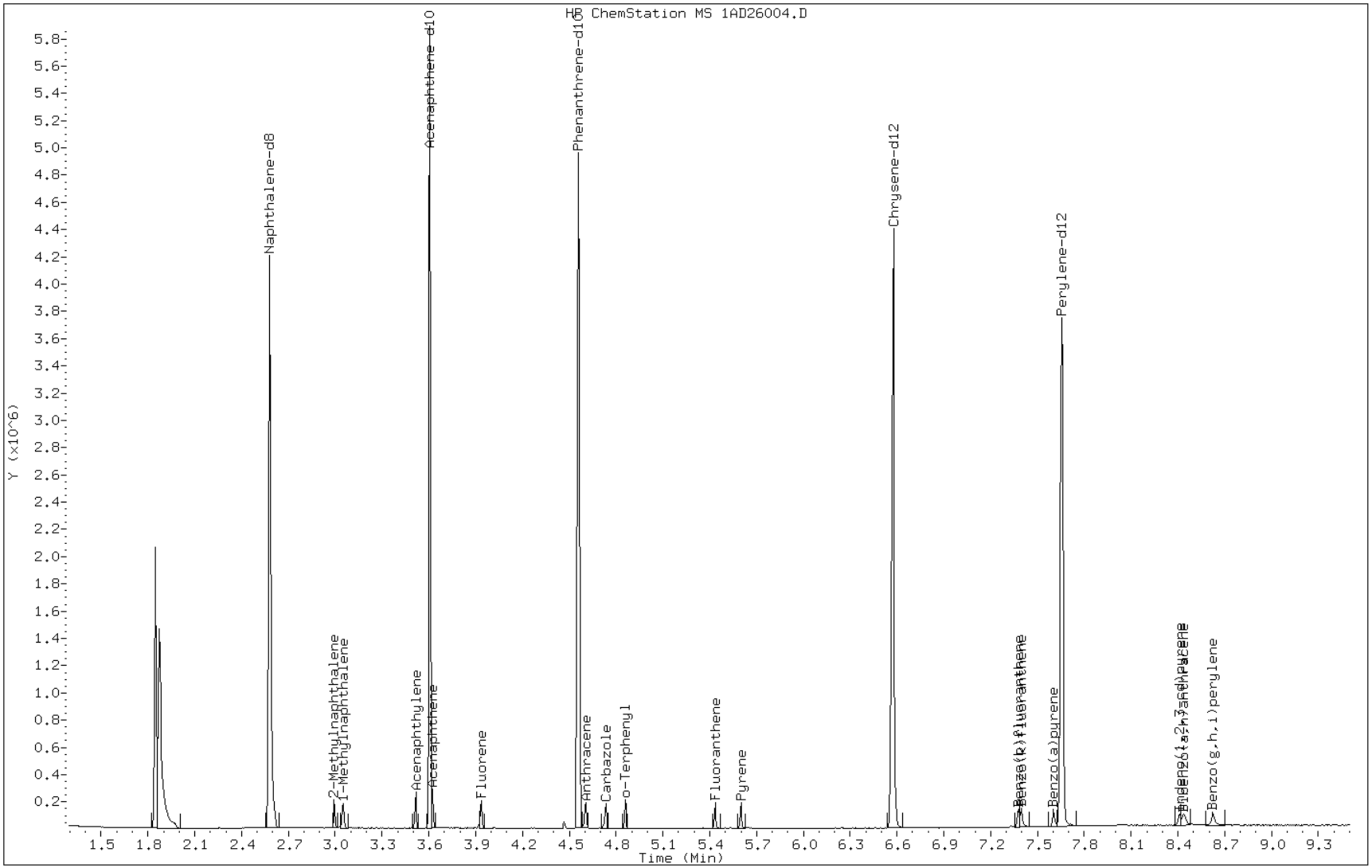
M - Compound response manually integrated.

Data File: 1AD26004.D

Date: 26-APR-2013 10:18

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/26/2013

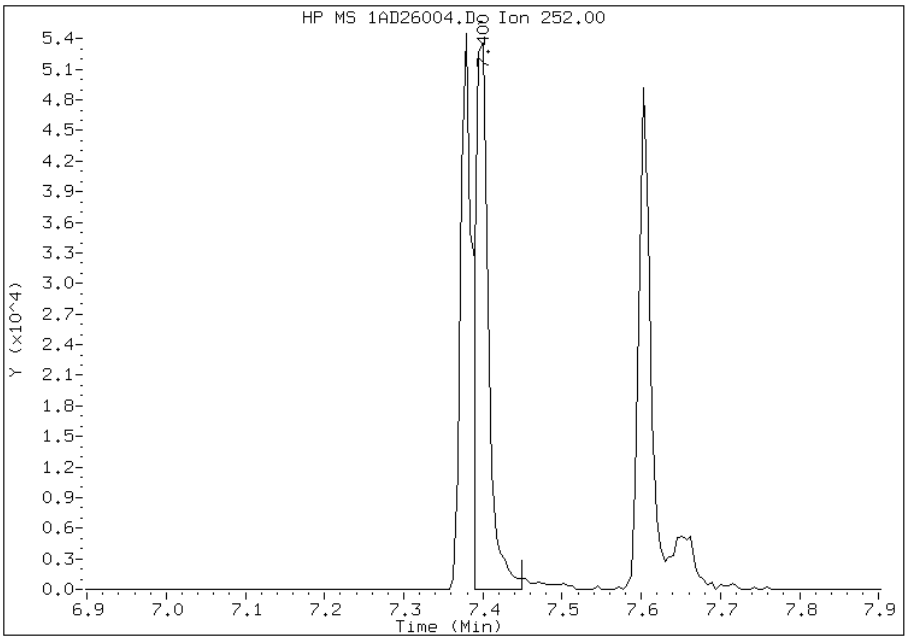
Processing Integration Results

RT: 7.40

Response: 62638

Amount: 1

Conc: 1



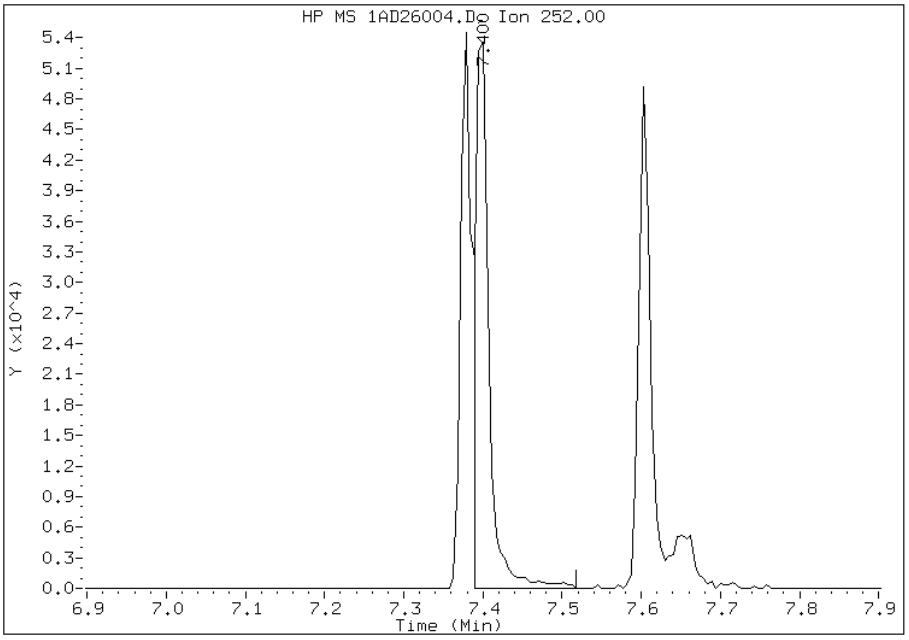
Manual Integration Results

RT: 7.40

Response: 64750

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

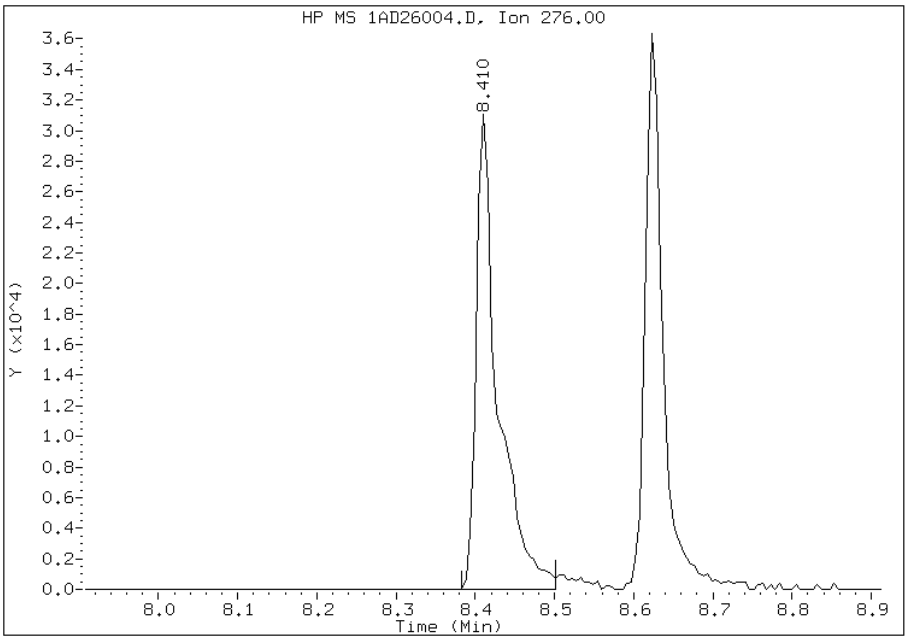
Processing Integration Results

RT: 8.41

Response: 58698

Amount: 1

Conc: 1



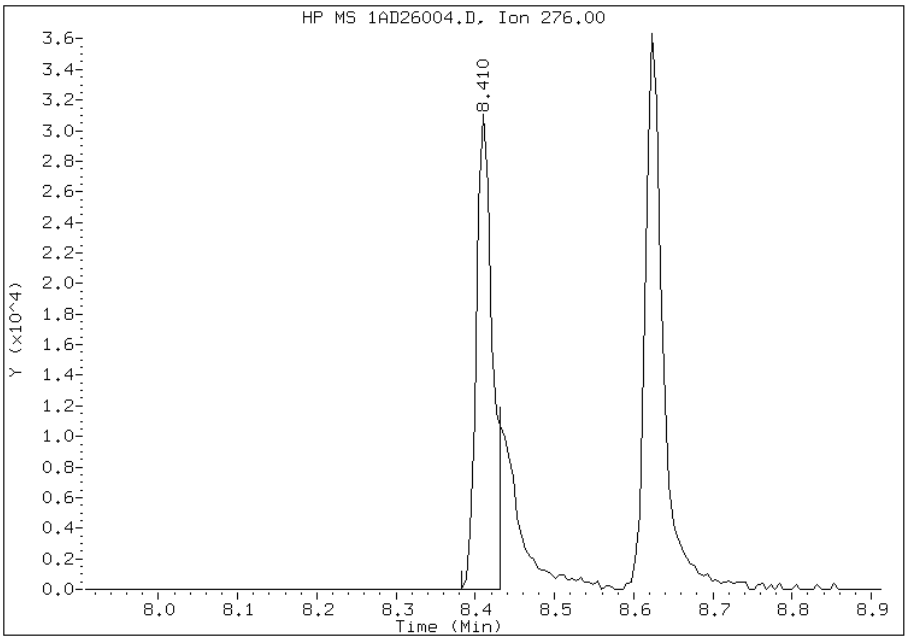
Manual Integration Results

RT: 8.41

Response: 43801

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/26/2013

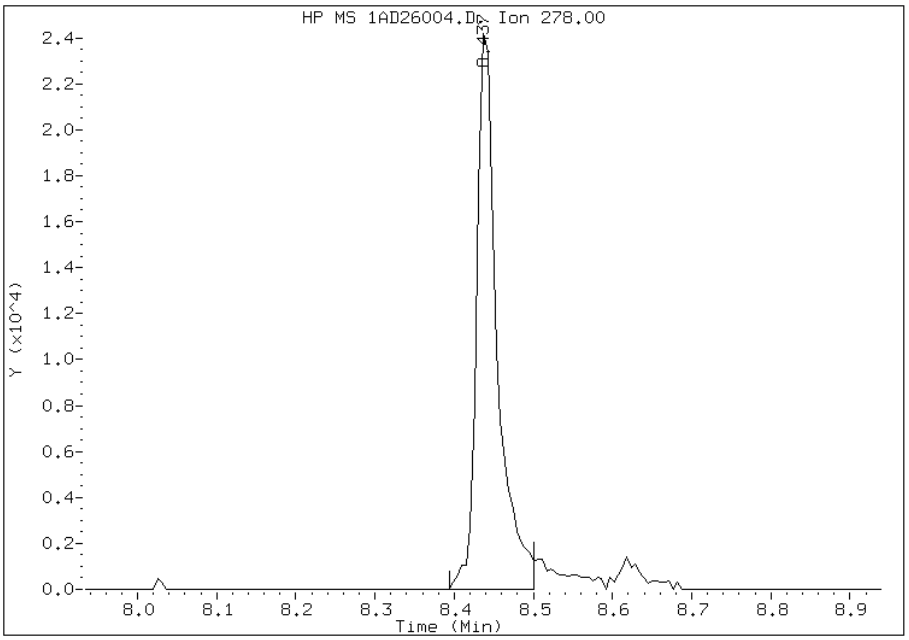
Processing Integration Results

RT: 8.44

Response: 43759

Amount: 1

Conc: 1



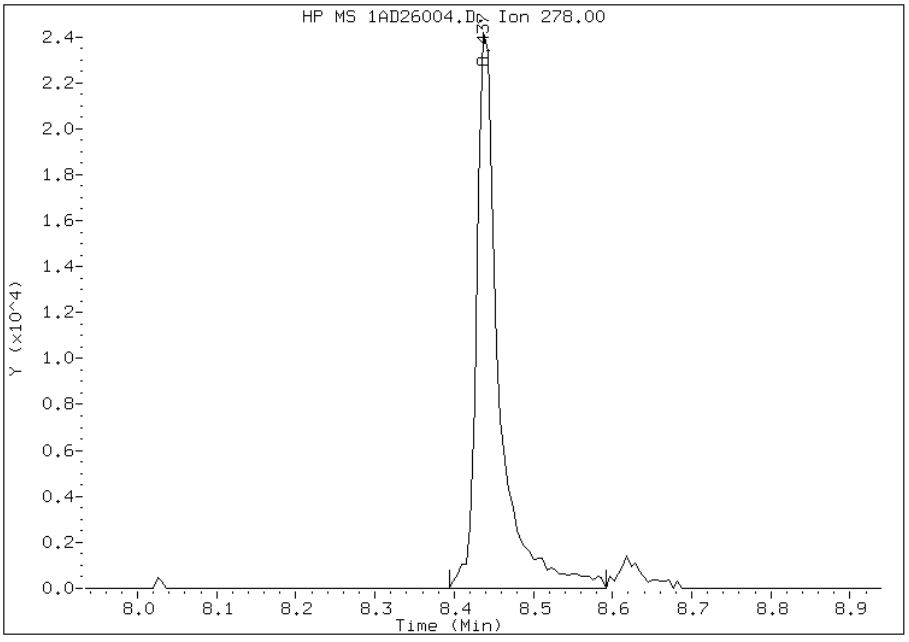
Manual Integration Results

RT: 8.44

Response: 47341

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

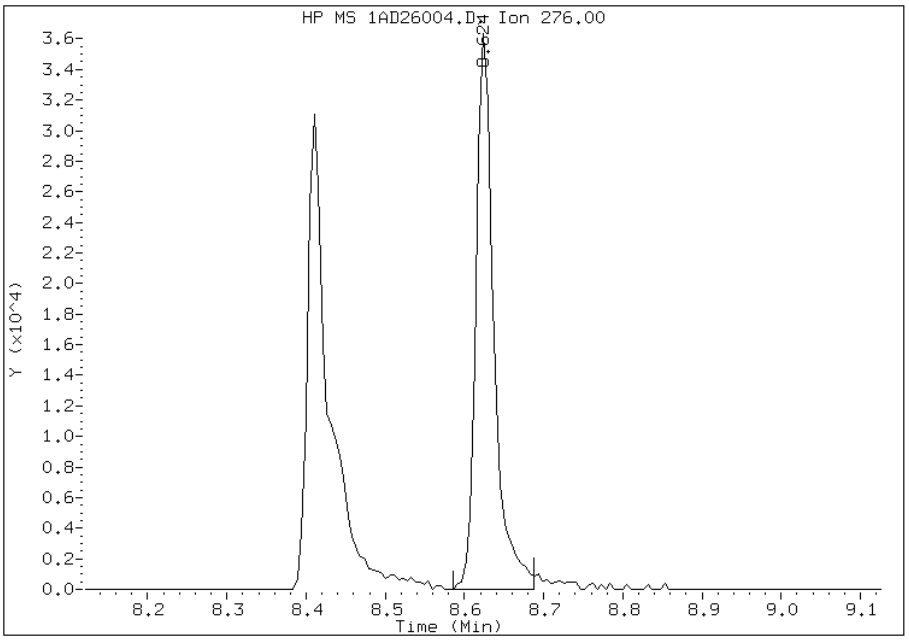
Processing Integration Results

RT: 8.62

Response: 56611

Amount: 1

Conc: 1



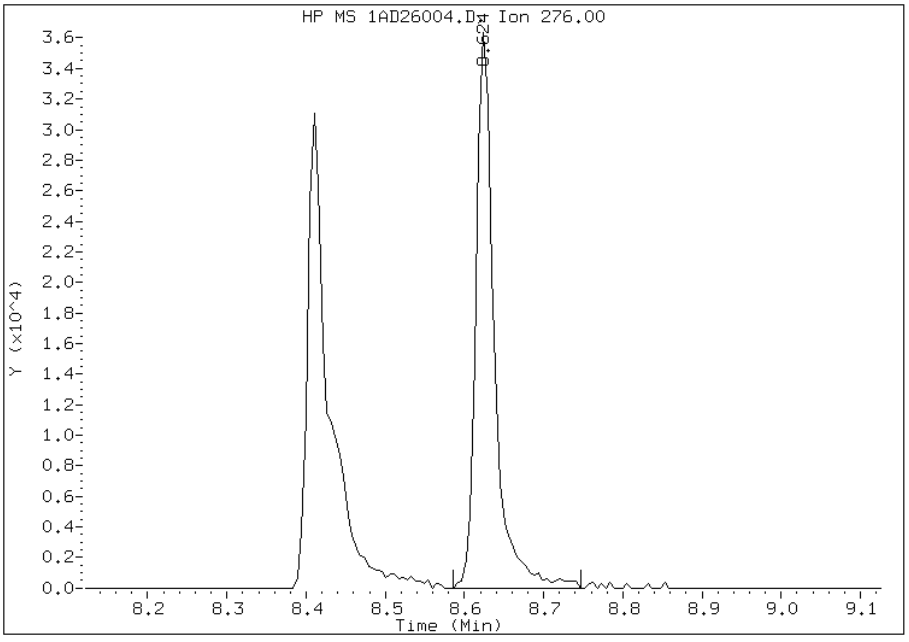
Manual Integration Results

RT: 8.62

Response: 58526

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:52
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26005.D
Lab Smp Id: IC-1531399
Inj Date : 26-APR-2013 10:33
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 10:18 Cal File: 1AD26004.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

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.576	2.580	(1.000)	2369530	40.0000	
*	6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1090579	40.0000	
*	10 Phenanthrene-d10	188	4.558	4.562	(1.000)	1892246	40.0000	
$	14 o-Terphenyl	230	4.862	4.861	(1.067)	177967	5.00000	5.2550
*	18 Chrysene-d12	240	6.577	6.581	(1.000)	1853494	40.0000	
*	23 Perylene-d12	264	7.662	7.666	(1.000)	1935554	40.0000	
	2 Naphthalene	128	2.592	2.591	(1.006)	320082	5.00000	5.0894
	3 2-Methylnaphthalene	141	2.993	2.997	(1.162)	193264	5.00000	5.1484
	4 1-Methylnaphthalene	142	3.051	3.050	(1.185)	216239	5.00000	5.2724
	5 Acenaphthylene	152	3.516	3.520	(0.975)	366926	5.00000	5.0915
	7 Acenaphthene	154	3.623	3.627	(1.004)	188346	5.00000	5.1131
	9 Fluorene	166	3.938	3.942	(1.092)	226787	5.00000	4.9845
	11 Phenanthrene	178	4.574	4.578	(1.004)	300982	5.00000	5.2917
	12 Anthracene	178	4.606	4.610	(1.011)	320832	5.00000	5.1089
	13 Carbazole	167	4.734	4.738	(1.039)	309273	5.00000	5.3789
	15 Fluoranthene	202	5.434	5.438	(1.192)	362121	5.00000	5.3053
	16 Pyrene	202	5.600	5.604	(0.851)	387490	5.00000	5.4798
	17 Benzo(a)anthracene	228	6.566	6.565	(0.998)	302918	5.00000	5.0044
	19 Chrysene	228	6.593	6.597	(1.002)	322491	5.00000	5.2515
	20 Benzo(b)fluoranthene	252	7.378	7.388	(0.963)	315397	5.00000	5.3673
	21 Benzo(k)fluoranthene	252	7.400	7.409	(0.966)	394484	5.00000	5.8388
	22 Benzo(a)pyrene	252	7.608	7.612	(0.993)	334183	5.00000	5.1981
	24 Indeno(1,2,3-cd)pyrene	276	8.420	8.430	(1.099)	290809	5.00000	5.0945
	25 Dibenzo(a,h)anthracene	278	8.447	8.457	(1.102)	292736	5.00000	5.6999(M)
	26 Benzo(g,h,i)perylene	276	8.634	8.654	(1.127)	339141	5.00000	5.4899(M)

QC Flag Legend

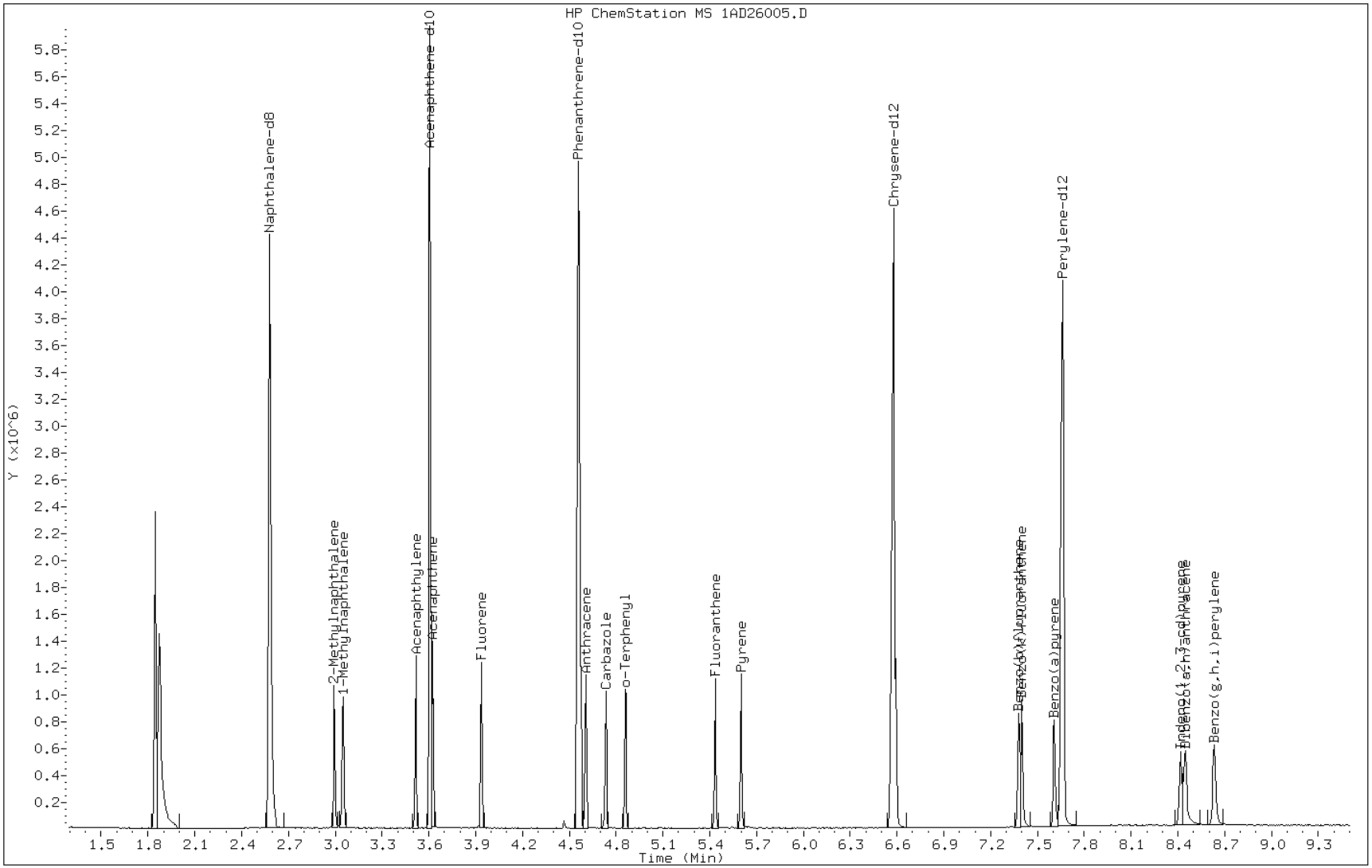
M - Compound response manually integrated.

Data File: 1AD26005.D

Date: 26-APR-2013 10:33

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1AD26005.D
Inj. Date and Time: 26-APR-2013 10:33
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/26/2013

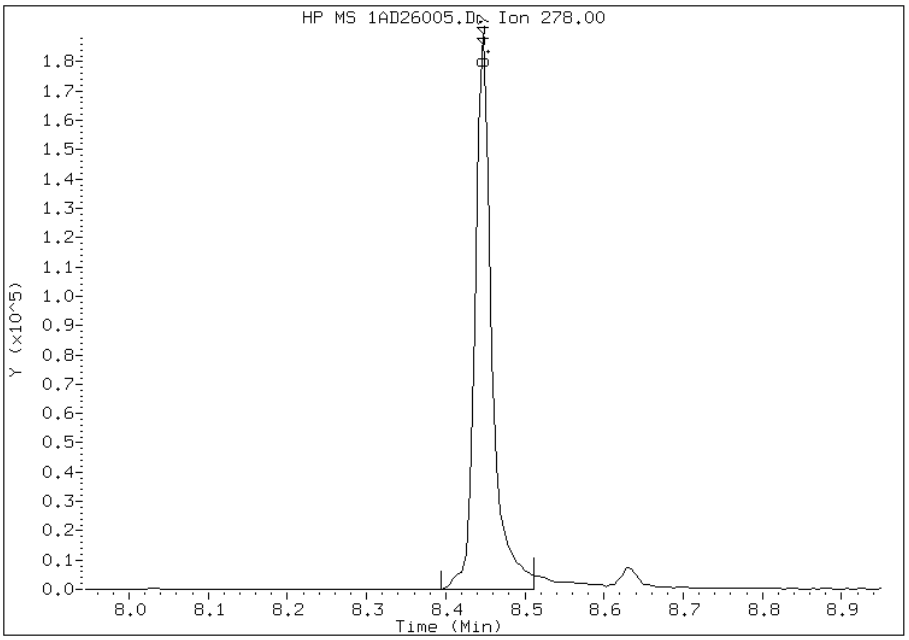
Processing Integration Results

RT: 8.45

Response: 277866

Amount: 6

Conc: 6



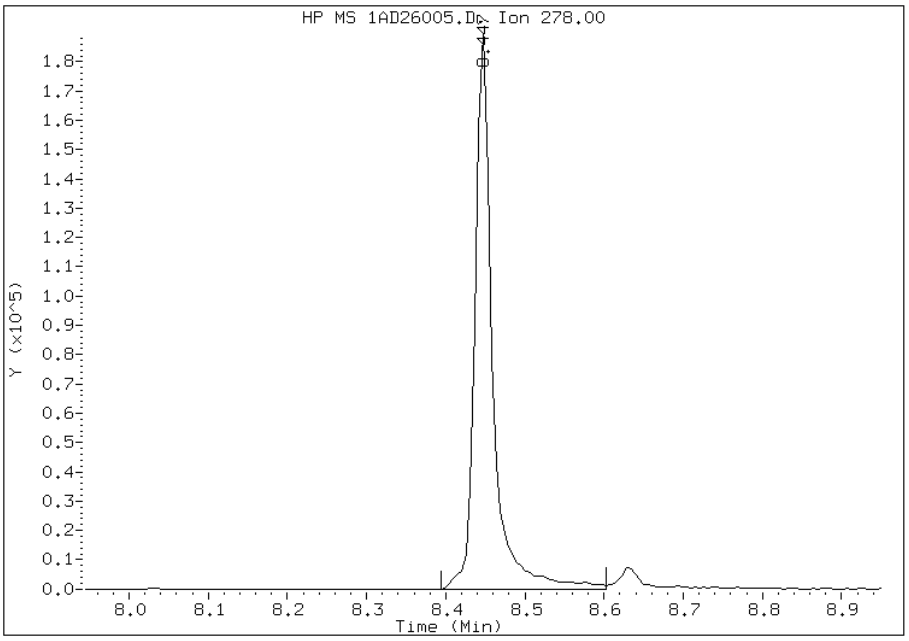
Manual Integration Results

RT: 8.45

Response: 292736

Amount: 6

Conc: 6



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26005.D
Inj. Date and Time: 26-APR-2013 10:33
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

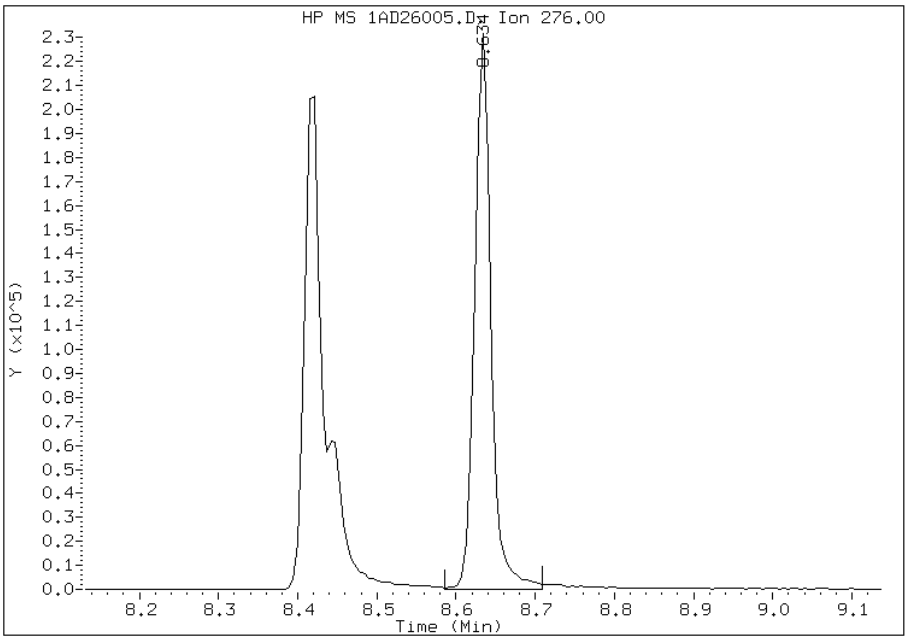
Processing Integration Results

RT: 8.63

Response: 328220

Amount: 5

Conc: 5



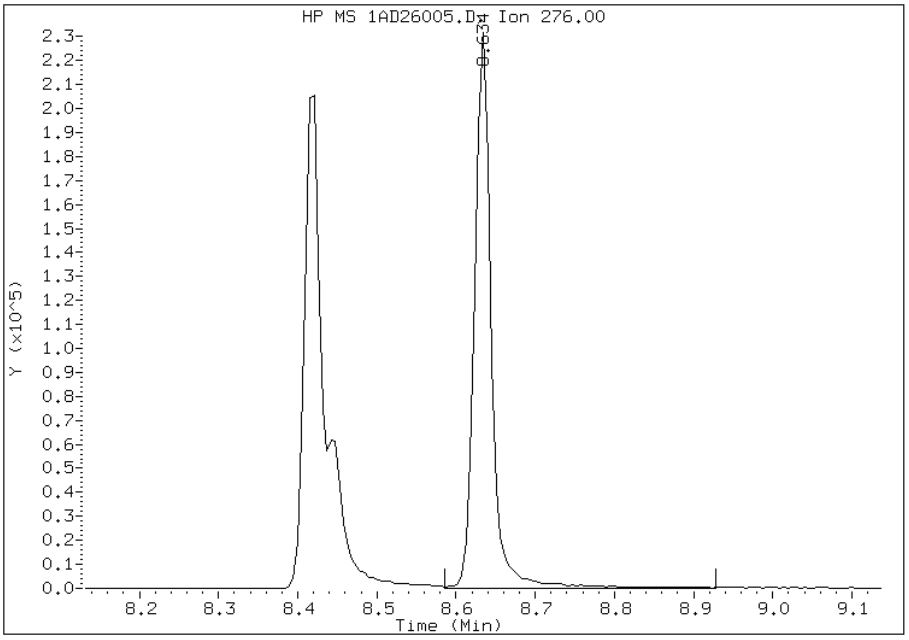
Manual Integration Results

RT: 8.63

Response: 339141

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:53
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26006.D
Lab Smp Id: IC-1531400
Inj Date : 26-APR-2013 10:48
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 10:33 Cal File: 1AD26005.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

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.581	2.580	(1.000)	2323692	40.0000	
*	6 Acenaphthene-d10	164	3.606	3.606	(1.000)	1066140	40.0000	
*	10 Phenanthrene-d10	188	4.563	4.562	(1.000)	1871240	40.0000	
$	14 o-Terphenyl	230	4.862	4.861	(1.066)	310562	10.0000	9.7321
*	18 Chrysene-d12	240	6.582	6.581	(1.000)	1765506	40.0000	
*	23 Perylene-d12	264	7.661	7.666	(1.000)	1844103	40.0000	
	2 Naphthalene	128	2.591	2.591	(1.004)	595222	10.0000	9.8376
	3 2-Methylnaphthalene	141	2.997	2.997	(1.161)	341254	10.0000	9.6150
	4 1-Methylnaphthalene	142	3.051	3.050	(1.182)	376560	10.0000	9.8086
	5 Acenaphthylene	152	3.515	3.520	(0.975)	648059	10.0000	9.6521
	7 Acenaphthene	154	3.622	3.627	(1.004)	324917	10.0000	9.4098
	9 Fluorene	166	3.937	3.942	(1.092)	405299	10.0000	9.4592
	11 Phenanthrene	178	4.573	4.578	(1.002)	533287	10.0000	9.9071
	12 Anthracene	178	4.605	4.610	(1.009)	579771	10.0000	9.8285
	13 Carbazole	167	4.739	4.738	(1.039)	544612	10.0000	9.9049
	15 Fluoranthene	202	5.439	5.438	(1.192)	653973	10.0000	10.0511
	16 Pyrene	202	5.604	5.604	(0.851)	693219	10.0000	10.2919
	17 Benzo(a)anthracene	228	6.566	6.565	(0.998)	543586	10.0000	9.4280
	19 Chrysene	228	6.598	6.597	(1.002)	574179	10.0000	9.8161
	20 Benzo(b)fluoranthene	252	7.383	7.388	(0.964)	597877	10.0000	10.6790
	21 Benzo(k)fluoranthene	252	7.405	7.409	(0.967)	634191	10.0000	9.8523
	22 Benzo(a)pyrene	252	7.608	7.612	(0.993)	604286	10.0000	10.7211
	24 Indeno(1,2,3-cd)pyrene	276	8.420	8.430	(1.099)	557142	10.0000	10.0121
	25 Dibenzo(a,h)anthracene	278	8.446	8.457	(1.103)	529334	10.0000	10.8180(M)
	26 Benzo(g,h,i)perylene	276	8.639	8.654	(1.128)	616524	10.0000	10.4750(M)

QC Flag Legend

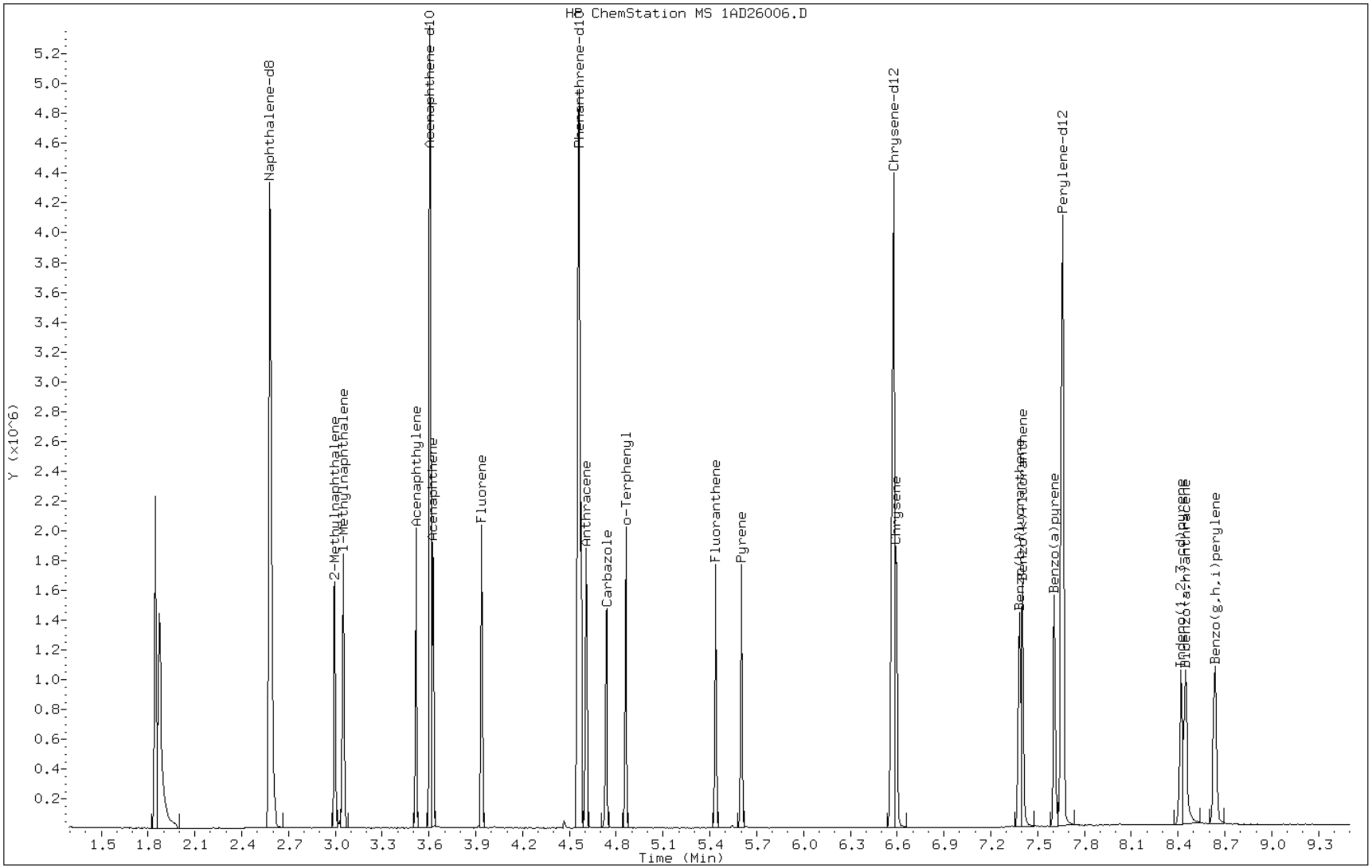
M - Compound response manually integrated.

Data File: 1AD26006.D

Date: 26-APR-2013 10:48

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531400 Operator: SCC



Manual Integration Report

Data File: 1AD26006.D
Inj. Date and Time: 26-APR-2013 10:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/26/2013

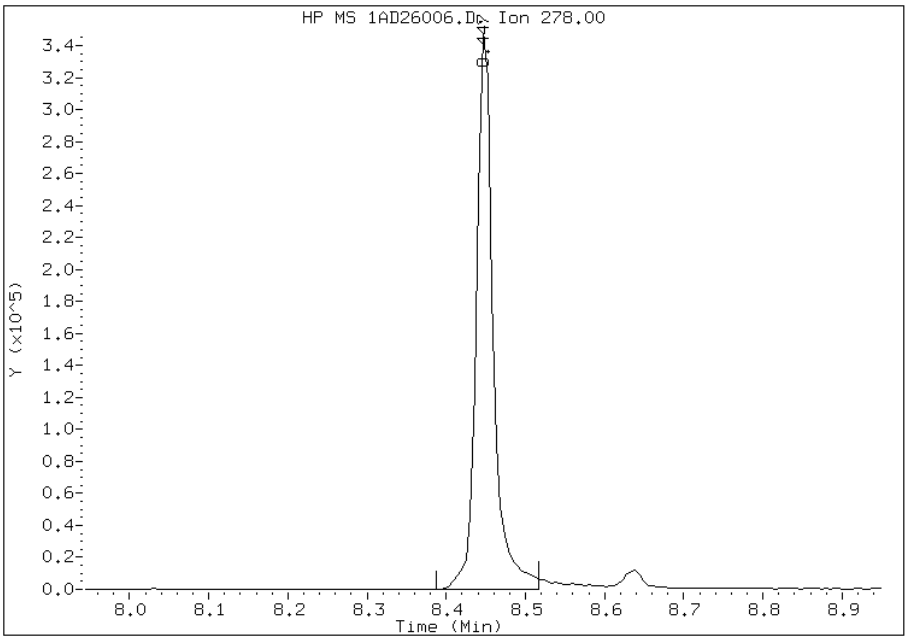
Processing Integration Results

RT: 8.45

Response: 511528

Amount: 11

Conc: 11



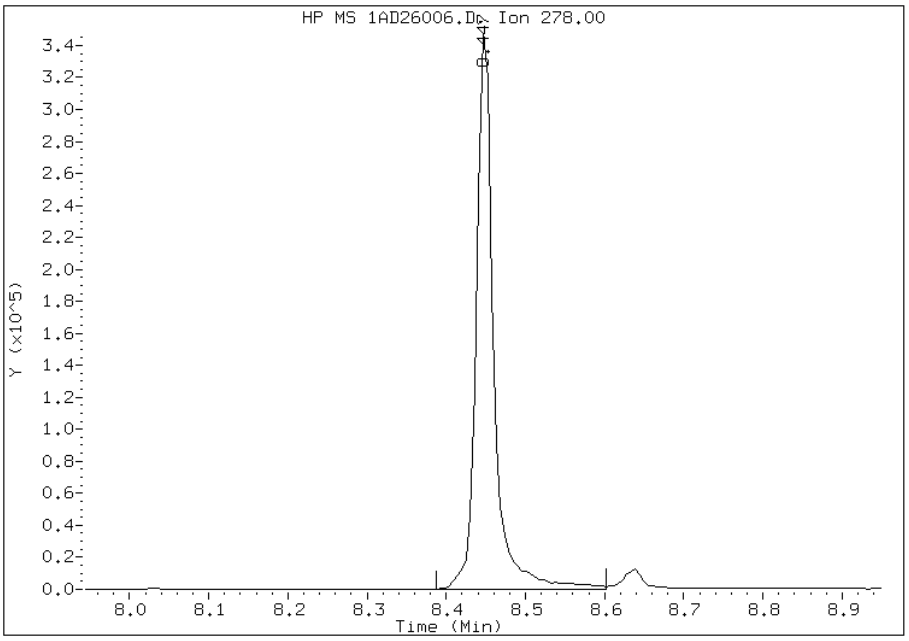
Manual Integration Results

RT: 8.45

Response: 529334

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26006.D
Inj. Date and Time: 26-APR-2013 10:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

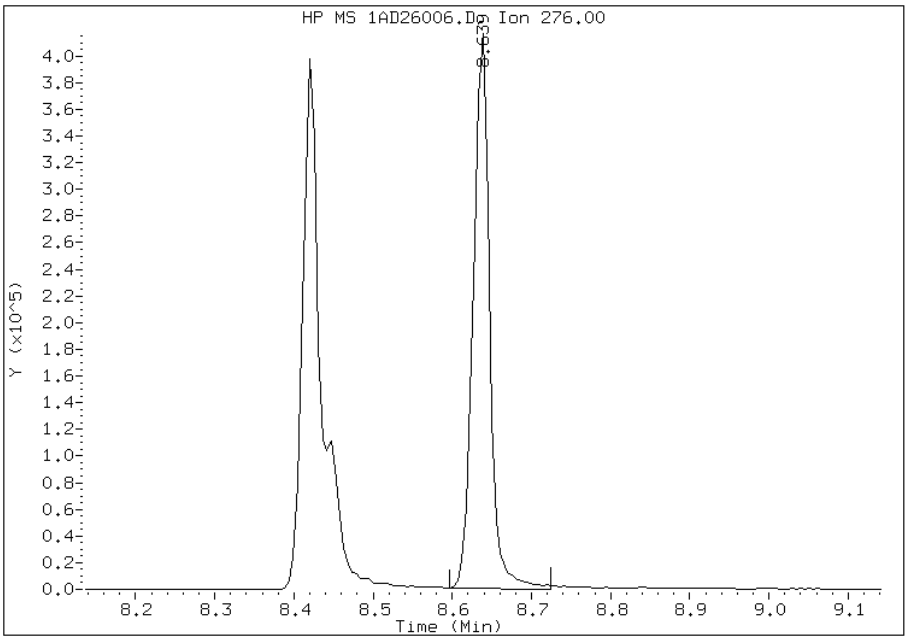
Processing Integration Results

RT: 8.64

Response: 592263

Amount: 10

Conc: 10



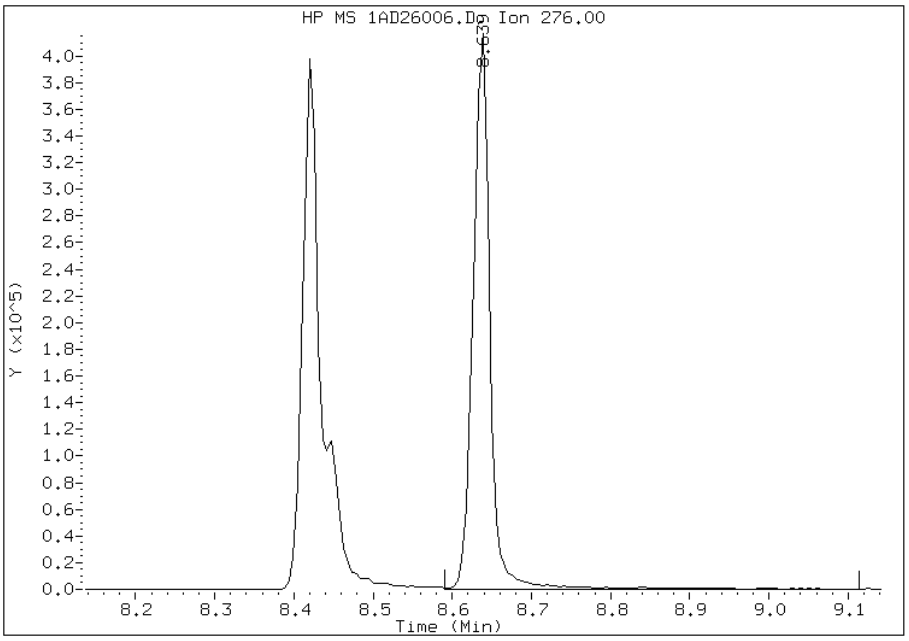
Manual Integration Results

RT: 8.64

Response: 616524

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:54
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26007.D
Lab Smp Id: ICIS-1531401
Inj Date : 26-APR-2013 11:03
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 10:48 Cal File: 1AD26006.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.580	2.580	(1.000)	2358748	40.0000	
* 6 Acenaphthene-d10	164	3.606	3.606	(1.000)	1131055	40.0000	
* 10 Phenanthrene-d10	188	4.562	4.562	(1.000)	1941405	40.0000	
$ 14 o-Terphenyl	230	4.861	4.861	(1.066)	600782	20.0000	19.8656
* 18 Chrysene-d12	240	6.581	6.581	(1.000)	1806882	40.0000	
* 23 Perylene-d12	264	7.666	7.666	(1.000)	1862358	40.0000	
2 Naphthalene	128	2.591	2.591	(1.004)	1158716	20.0000	19.7046
3 2-Methylnaphthalene	141	2.997	2.997	(1.161)	669822	20.0000	20.1454
4 1-Methylnaphthalene	142	3.050	3.050	(1.182)	706538	20.0000	19.6964
5 Acenaphthylene	152	3.520	3.520	(0.976)	1265667	20.0000	19.6212
7 Acenaphthene	154	3.627	3.627	(1.006)	634267	20.0000	19.1257
9 Fluorene	166	3.942	3.942	(1.093)	807968	20.0000	19.5803
11 Phenanthrene	178	4.578	4.578	(1.004)	1040972	20.0000	19.9793
12 Anthracene	178	4.610	4.610	(1.011)	1112517	20.0000	19.9518
13 Carbazole	167	4.738	4.738	(1.039)	1091227	20.0000	20.1348
15 Fluoranthene	202	5.438	5.438	(1.192)	1286350	20.0000	20.1741
16 Pyrene	202	5.604	5.604	(0.851)	1367080	20.0000	19.8317
17 Benzo(a)anthracene	228	6.565	6.565	(0.998)	1149947	20.0000	19.4881
19 Chrysene	228	6.597	6.597	(1.002)	1097962	20.0000	18.3408(M)
20 Benzo(b)fluoranthene	252	7.388	7.388	(0.964)	1243307	20.0000	21.9898
21 Benzo(k)fluoranthene	252	7.409	7.409	(0.967)	1166129	20.0000	17.9385
22 Benzo(a)pyrene	252	7.612	7.612	(0.993)	1187145	20.0000	21.7561
24 Indeno(1,2,3-cd)pyrene	276	8.430	8.430	(1.100)	1156108	20.0000	20.3300
25 Dibenzo(a,h)anthracene	278	8.457	8.457	(1.103)	1028761	20.0000	20.8187
26 Benzo(g,h,i)perylene	276	8.654	8.654	(1.129)	1185137	20.0000	19.9387

QC Flag Legend

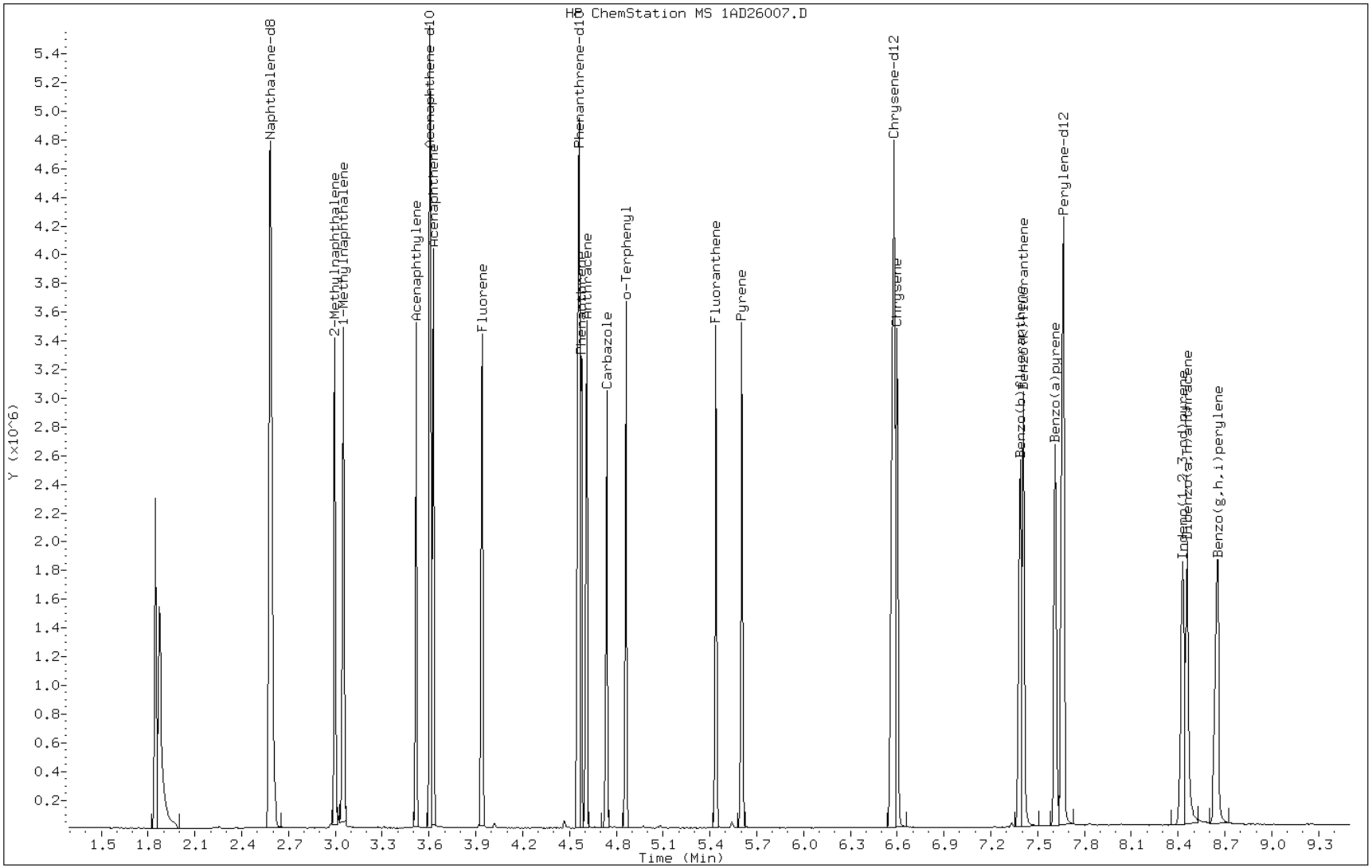
M - Compound response manually integrated.

Data File: 1AD26007.D

Date: 26-APR-2013 11:03

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1AD26007.D
Inj. Date and Time: 26-APR-2013 11:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/26/2013

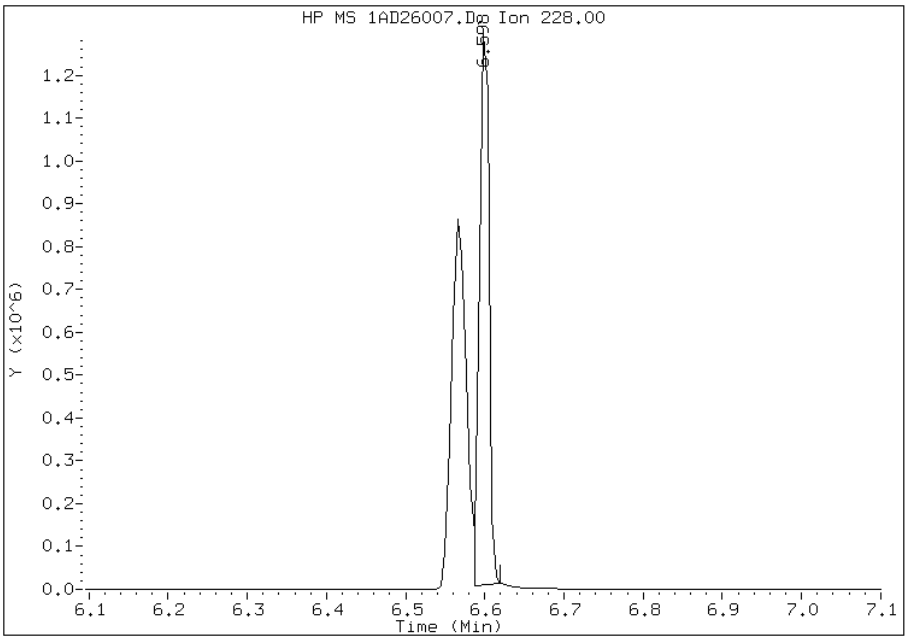
Processing Integration Results

RT: 6.60

Response: 1056771

Amount: 17

Conc: 17



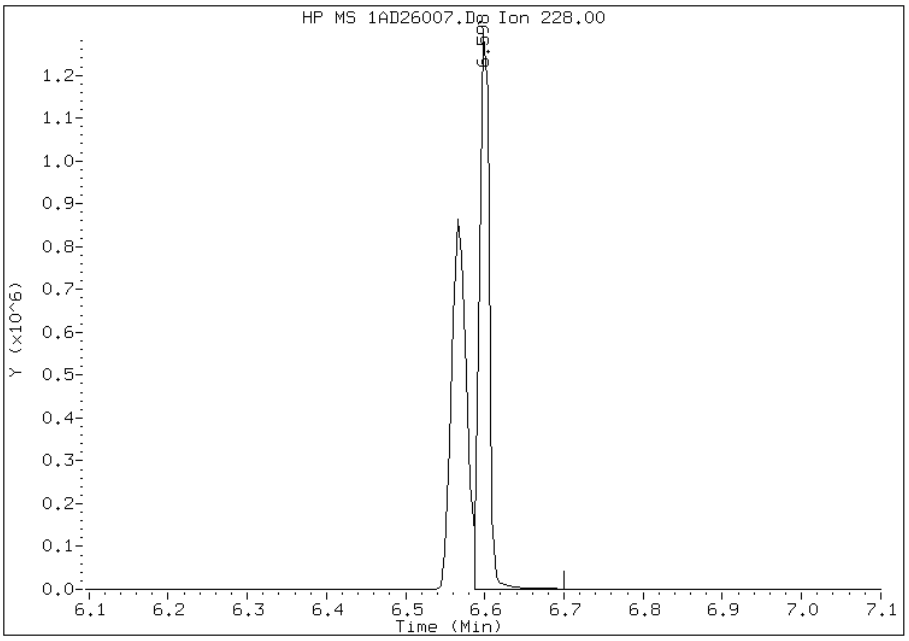
Manual Integration Results

RT: 6.60

Response: 1097962

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:58
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26008.D
Lab Smp Id: IC-1531402
Inj Date : 26-APR-2013 11:19
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 11:03 Cal File: 1AD26007.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.578	2.580	(1.000)	2081137	40.0000	
* 6 Acenaphthene-d10	164	3.609	3.606	(1.000)	971255	40.0000	
* 10 Phenanthrene-d10	188	4.560	4.562	(1.000)	1708155	40.0000	
$ 14 o-Terphenyl	230	4.864	4.861	(1.067)	747046	30.0000	30.2447
* 18 Chrysene-d12	240	6.584	6.581	(1.000)	1549882	40.0000	
* 23 Perylene-d12	264	7.663	7.666	(1.000)	1665910	40.0000	
2 Naphthalene	128	2.594	2.591	(1.006)	1510520	30.0000	30.4015
3 2-Methylnaphthalene	141	2.994	2.997	(1.162)	827941	30.0000	30.0747
4 1-Methylnaphthalene	142	3.053	3.050	(1.184)	894050	30.0000	30.3598
5 Acenaphthylene	152	3.518	3.520	(0.975)	1556064	30.0000	30.6998
7 Acenaphthene	154	3.625	3.627	(1.004)	810394	30.0000	31.5304
9 Fluorene	166	3.940	3.942	(1.092)	1002855	30.0000	30.9795
11 Phenanthrene	178	4.576	4.578	(1.004)	1299367	30.0000	29.9559
12 Anthracene	178	4.613	4.610	(1.012)	1371502	30.0000	30.1453
13 Carbazole	167	4.741	4.738	(1.040)	1364561	30.0000	29.7567
15 Fluoranthene	202	5.441	5.438	(1.193)	1591115	30.0000	29.6375
16 Pyrene	202	5.607	5.604	(0.852)	1716784	30.0000	29.0345
17 Benzo(a)anthracene	228	6.568	6.565	(0.998)	1427778	30.0000	28.2088
19 Chrysene	228	6.600	6.597	(1.002)	1401601	30.0000	27.2953(M)
20 Benzo(b)fluoranthene	252	7.391	7.388	(0.964)	1402018	30.0000	27.7209
21 Benzo(k)fluoranthene	252	7.412	7.409	(0.967)	1618107	30.0000	27.8265
22 Benzo(a)pyrene	252	7.615	7.612	(0.994)	1470103	30.0000	30.4849
24 Indeno(1,2,3-cd)pyrene	276	8.427	8.430	(1.100)	1470861	30.0000	28.8179
25 Dibenzo(a,h)anthracene	278	8.459	8.457	(1.104)	1321140	30.0000	29.8882
26 Benzo(g,h,i)perylene	276	8.652	8.654	(1.129)	1524482	30.0000	28.6723

QC Flag Legend

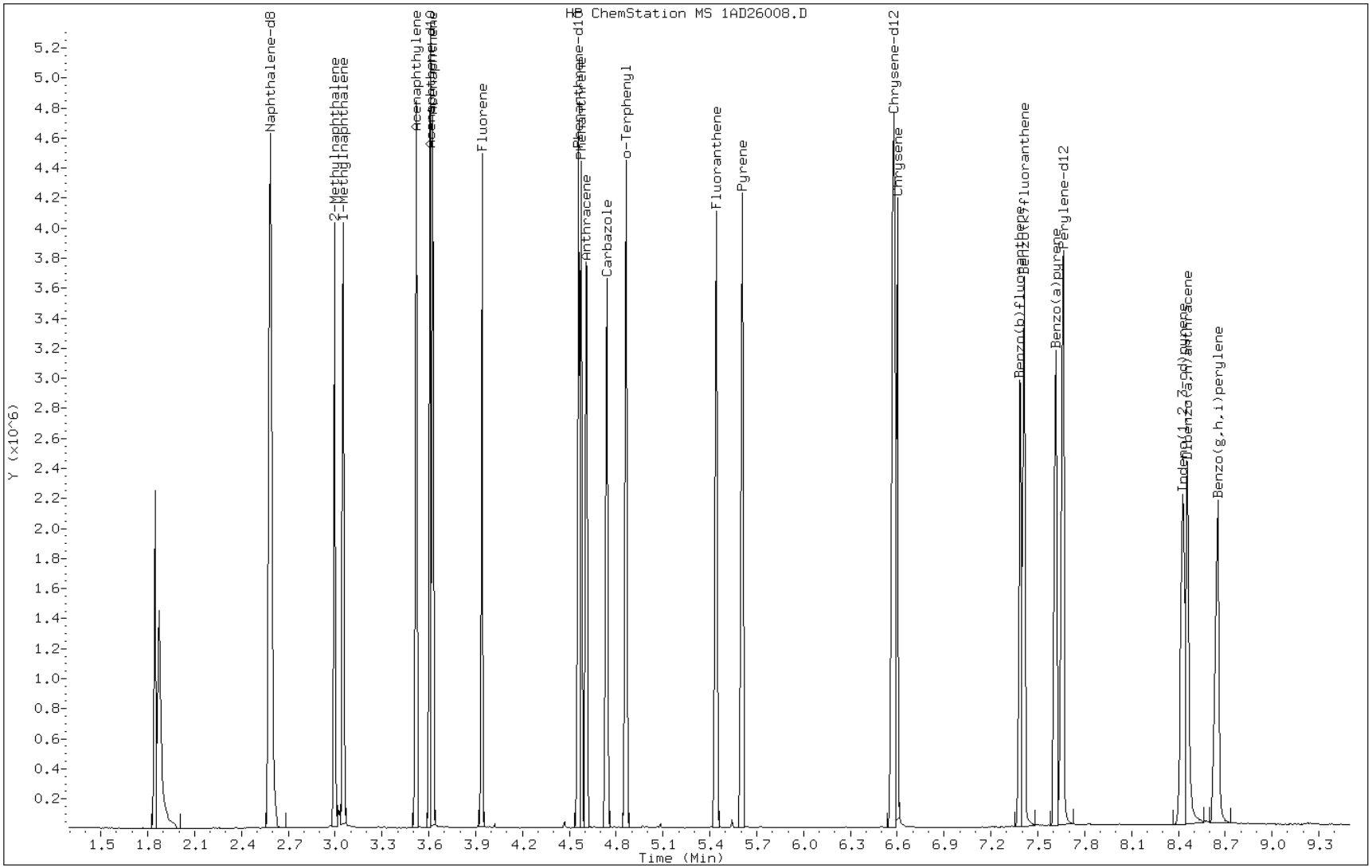
M - Compound response manually integrated.

Data File: 1AD26008.D

Date: 26-APR-2013 11:19

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531402 Operator: SCC



Manual Integration Report

Data File: 1AD26008.D
Inj. Date and Time: 26-APR-2013 11:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/26/2013

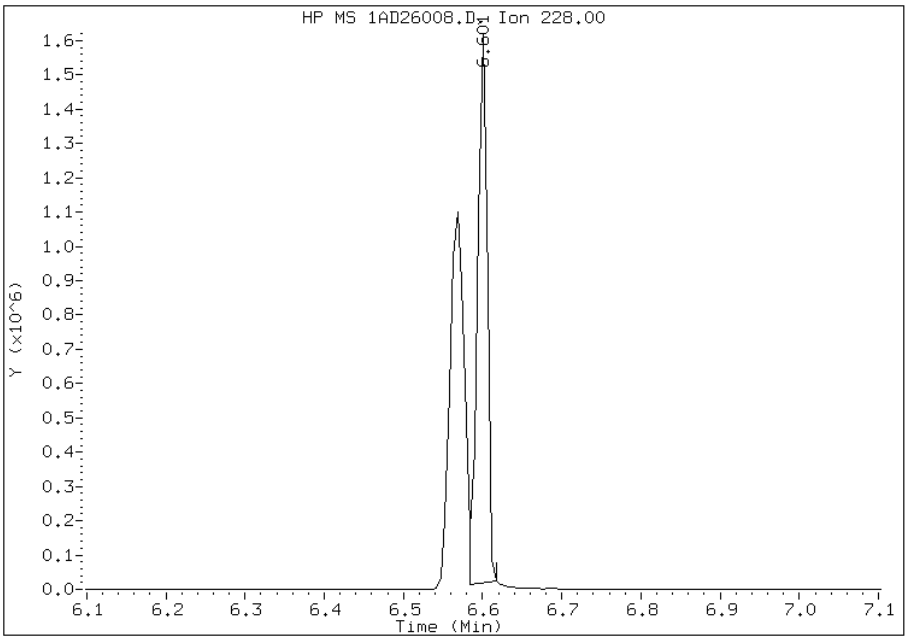
Processing Integration Results

RT: 6.60

Response: 1330257

Amount: 26

Conc: 26



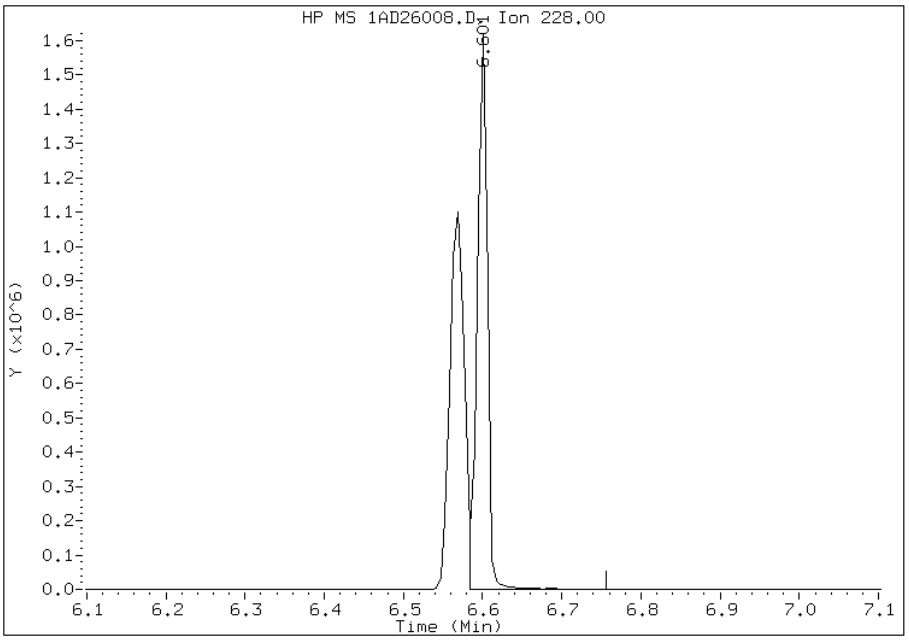
Manual Integration Results

RT: 6.60

Response: 1401601

Amount: 27

Conc: 27



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:56
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26009.D
Lab Smp Id: IC-1531403
Inj Date : 26-APR-2013 11:34
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 11:19 Cal File: 1AD26008.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

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.581	2.580	(1.000)	2198265	40.0000	
*	6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1085200	40.0000	
*	10 Phenanthrene-d10	188	4.563	4.562	(1.000)	1842852	40.0000	
$	14 o-Terphenyl	230	4.868	4.861	(1.067)	1190919	50.0000	49.9310
*	18 Chrysene-d12	240	6.588	6.581	(1.000)	1568229	40.0000	
*	23 Perylene-d12	264	7.667	7.666	(1.000)	1740423	40.0000	
	2 Naphthalene	128	2.592	2.591	(1.004)	2445644	50.0000	49.8939
	3 2-Methylnaphthalene	141	2.998	2.997	(1.161)	1310841	50.0000	49.9542
	4 1-Methylnaphthalene	142	3.057	3.050	(1.184)	1398370	50.0000	49.9099
	5 Acenaphthylene	152	3.521	3.520	(0.976)	2504346	50.0000	49.7738
	7 Acenaphthene	154	3.628	3.627	(1.006)	1267057	50.0000	49.4576
	9 Fluorene	166	3.943	3.942	(1.093)	1599840	50.0000	49.6541
	11 Phenanthrene	178	4.579	4.578	(1.004)	2139281	50.0000	50.0234(A)
	12 Anthracene	178	4.617	4.610	(1.012)	2186210	50.0000	49.9541
	13 Carbazole	167	4.745	4.738	(1.040)	2311786	50.0000	50.0703(A)
	15 Fluoranthene	202	5.450	5.438	(1.194)	2681447	50.0000	50.1042(A)
	16 Pyrene	202	5.616	5.604	(0.852)	2760027	50.0000	46.1318
	17 Benzo(a)anthracene	228	6.572	6.565	(0.998)	2561817	50.0000	50.0220(A)
	19 Chrysene	228	6.609	6.597	(1.003)	2209729	50.0000	42.5296(M)
	20 Benzo(b)fluoranthene	252	7.394	7.388	(0.964)	2501570	50.0000	47.3439
	21 Benzo(k)fluoranthene	252	7.421	7.409	(0.968)	2519945	50.0000	41.4801(M)
	22 Benzo(a)pyrene	252	7.624	7.612	(0.994)	2426657	50.0000	48.7188
	24 Indeno(1,2,3-cd)pyrene	276	8.442	8.430	(1.101)	2703546	50.0000	50.5272(A)
	25 Dibenzo(a,h)anthracene	278	8.474	8.457	(1.105)	2207196	50.0000	47.7957
	26 Benzo(g,h,i)perylene	276	8.671	8.654	(1.131)	2645132	50.0000	47.6194

QC Flag Legend

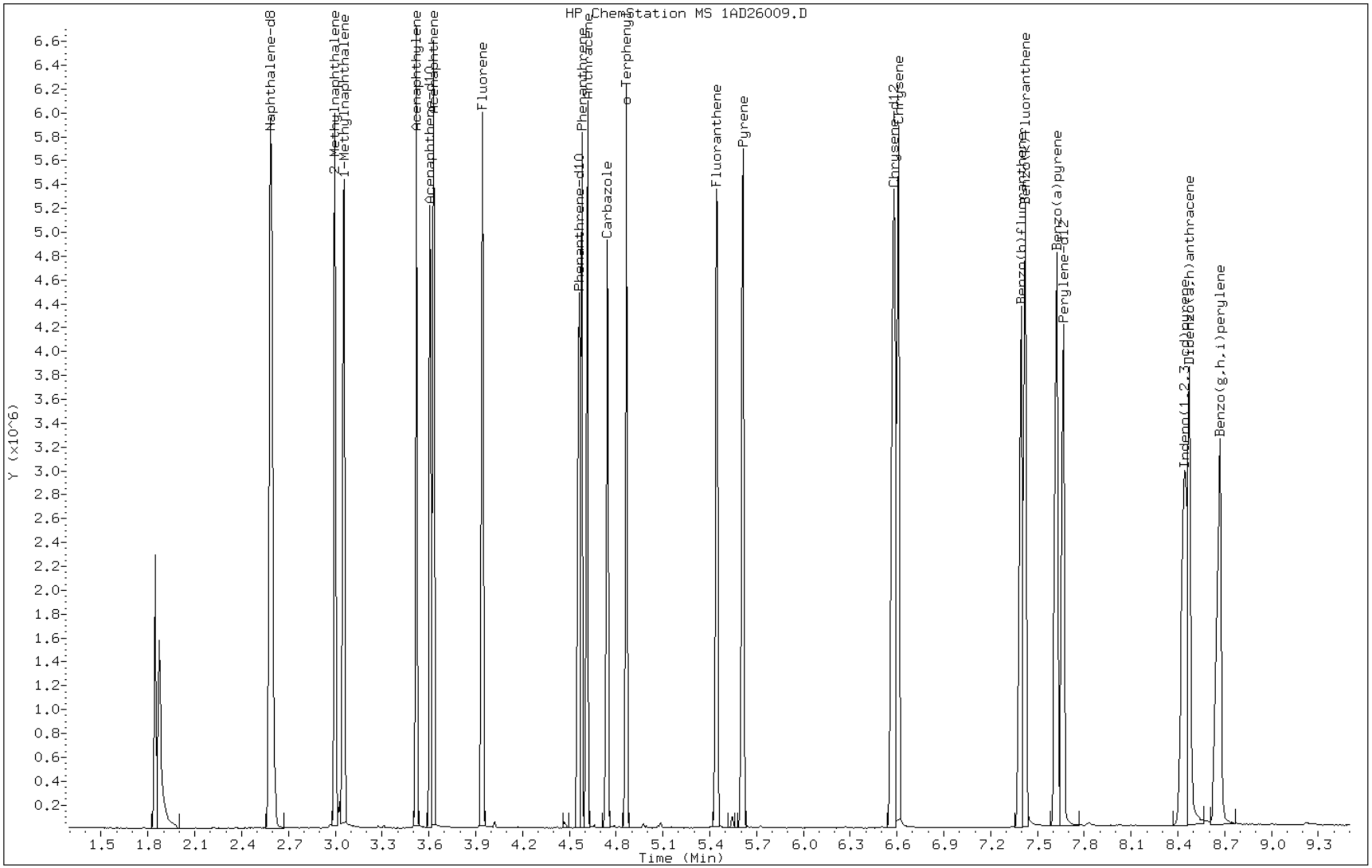
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AD26009.D

Date: 26-APR-2013 11:34

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1AD26009.D
Inj. Date and Time: 26-APR-2013 11:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/26/2013

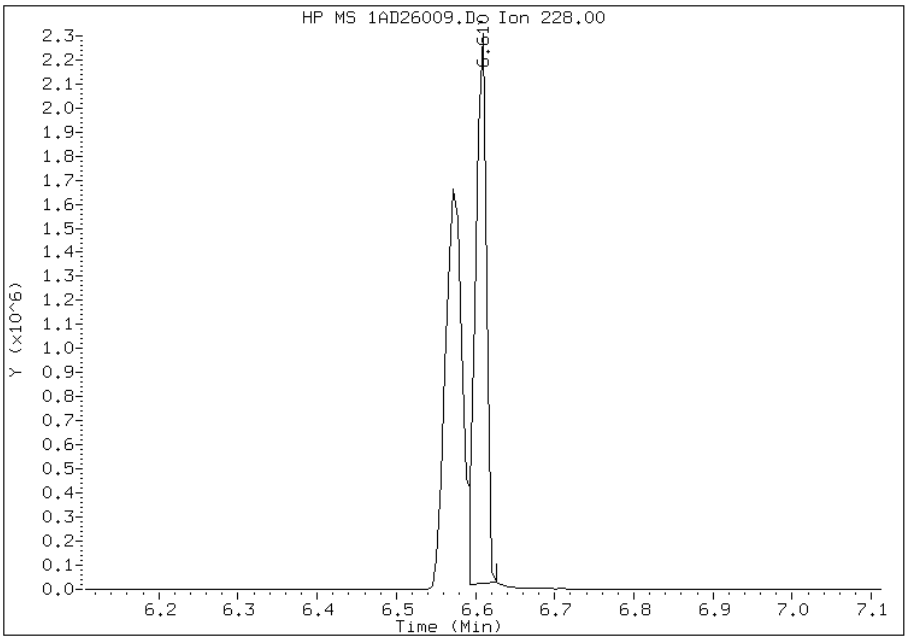
Processing Integration Results

RT: 6.61

Response: 2123056

Amount: 42

Conc: 42



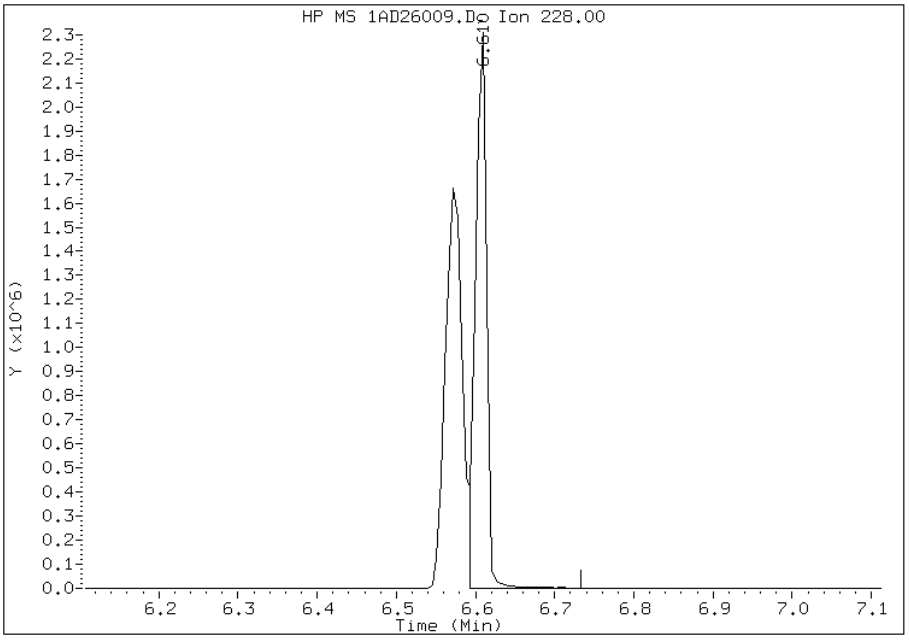
Manual Integration Results

RT: 6.61

Response: 2209729

Amount: 43

Conc: 43



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26009.D
Inj. Date and Time: 26-APR-2013 11:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/26/2013

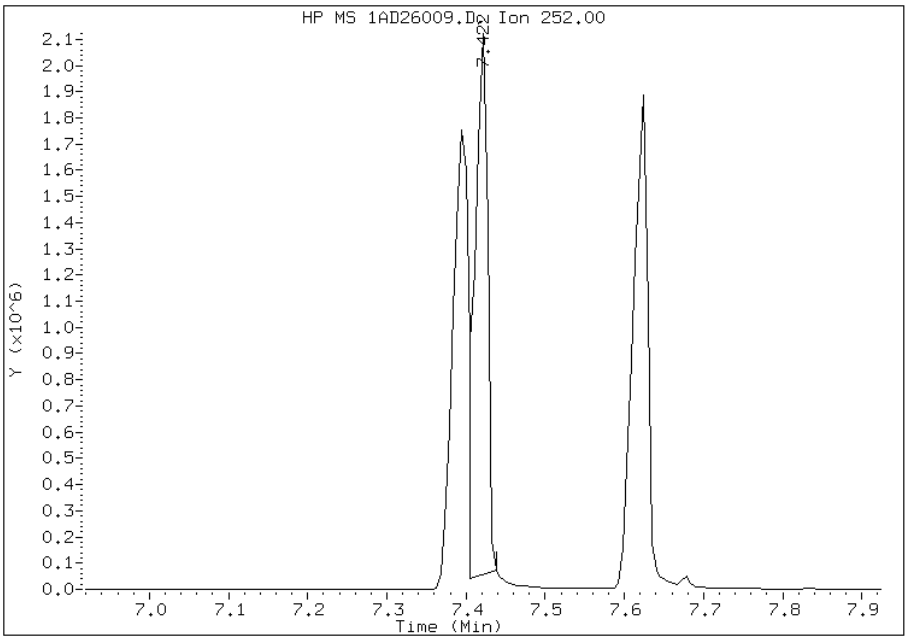
Processing Integration Results

RT: 7.42

Response: 2323626

Amount: 39

Conc: 39



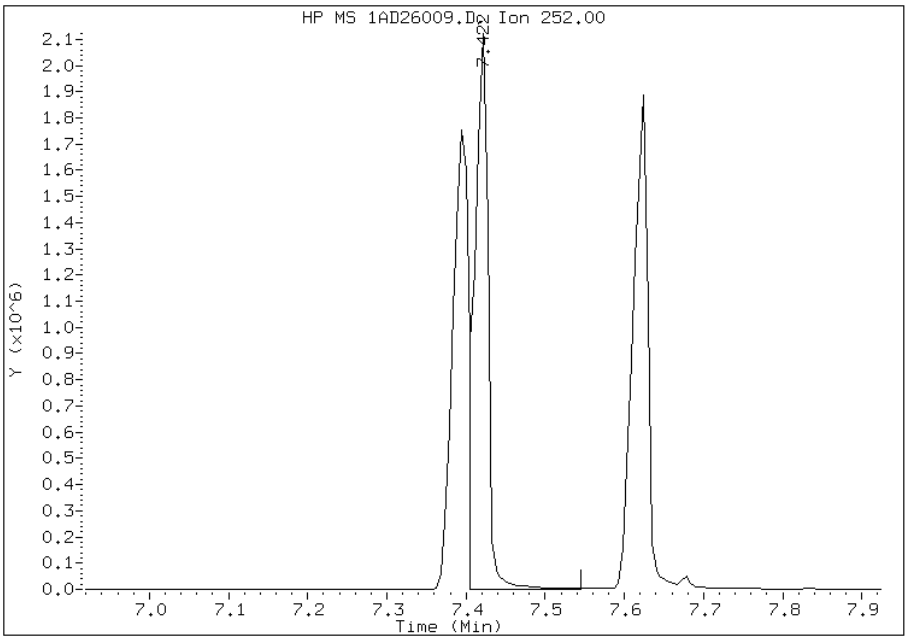
Manual Integration Results

RT: 7.42

Response: 2519945

Amount: 41

Conc: 41



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:55
Manual Integration Reason: Baseline Event

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89896-1 Analy Batch No.: 137156

SDG No.: 68089896-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2013 10:40 Calibration End Date: 05/06/2013 11:56 Calibration ID: 2952

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137156/4	1AE06004.D
Level 2	IC 660-137156/5	1AE06005.D
Level 3	IC 660-137156/6	1AE06006.D
Level 4	IC 660-137156/7	1AE06007.D
Level 5	IC 660-137156/8	1AE06008.D
Level 6	IC 660-137156/9	1AE06009.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 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.8667 0.9221	0.9548	0.9617	0.9647	0.9728	Ave		0.9420			0.0000	3.9		15.0			
2-Methylnaphthalene	0.4226 0.4918	0.4759	0.5039	0.4820	0.4877	Ave		0.4787			0.0000	5.5		15.0			
1-Methylnaphthalene	0.6029 0.5086	0.6310	0.5706	0.5768	0.5700	Ave		0.5738			0.0000	6.6		15.0			
Acenaphthylene	1.6019 1.8391	1.9272	1.9958	1.9528	1.8687	Ave		1.8796			0.0000	7.2		15.0			
Acenaphthene	1.2630 0.9794	1.1191	1.1012	1.0911	0.9775	Ave		1.0794			0.0000	9.2		15.0			
Fluorene	1.2150 1.1688	1.1543	1.2909	1.2296	1.2768	Ave		1.2301			0.0000	4.4		15.0			
Phenanthrene	1.0511 0.9551	0.9723	1.0218	0.9788	0.9545	Ave		0.9910			0.0000	3.6		15.0			
Anthracene	0.9704 1.0683	1.0287	1.1022	1.0731	1.0444	Ave		1.0556			0.0000	4.4		15.0			
Carbazole	0.8515 0.9411	0.9482	1.0434	0.9702	0.9294	Ave		0.9491			0.0000	6.0		15.0			
Fluoranthene	1.0295 1.1667	1.1345	1.1703	1.1455	1.1572	Ave		1.1400			0.0000	4.5		15.0			
Pyrene	1.1087 1.3212	1.2815	1.3443	1.3220	1.3081	Ave		1.2858			0.0000	6.2		15.0			
Benzo[a]anthracene	1.3182 1.1492	1.1011	1.0943	1.0418	1.0896	Ave		1.1242			0.0000	8.1		15.0			
Chrysene	1.3983 1.1822	1.3391	1.2785	1.2693	1.1997	Ave		1.2649			0.0000	6.5		15.0			
Benzo[b]fluoranthene	0.9460 1.2055	0.9352	1.0620	0.9896	1.1918	Ave		1.0573			0.0000	10.4		15.0			
Benzo[k]fluoranthene	1.2427 1.2284	1.3188	1.3819	1.4106	1.2886	Ave		1.3116			0.0000	5.1		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.: 680-89896-1 Analy Batch No.: 137156

SDG No.: 68089896-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2013 10:40 Calibration End Date: 05/06/2013 11:56 Calibration ID: 2952

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 3	LVL 4	LVL 5		B	M1	M2								
Benzo[a]pyrene	1.0150 1.1371	0.9655	1.0919	1.1043	1.1614	Ave		1.0858			0.0000	6.5		15.0			
Indeno[1,2,3-cd]pyrene	0.8009 1.0467	0.7678	0.8798	0.9074	0.9847	Ave		0.9096			0.0000	11.2		15.0			
Dibenz(a,h)anthracene	0.8250 0.9774	0.9059	0.9919	0.9399	0.9663	Ave		0.9324			0.0000	6.1		15.0			
Benzo[g,h,i]perylene	0.9050 1.0138	0.9652	1.0307	0.9710	1.0040	Ave		0.9782			0.0000	4.3		15.0			
o-Terphenyl	0.5850 0.5366	0.5762	0.6000	0.5836	0.5515	Ave		0.5725			0.0000	3.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89896-1 Analy Batch No.: 137156

SDG No.: 68089896-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2013 10:40 Calibration End Date: 05/06/2013 11:56 Calibration ID: 2952

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137156/4	1AE06004.D
Level 2	IC 660-137156/5	1AE06005.D
Level 3	IC 660-137156/6	1AE06006.D
Level 4	IC 660-137156/7	1AE06007.D
Level 5	IC 660-137156/8	1AE06008.D
Level 6	IC 660-137156/9	1AE06009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	5529 1397244	28538	156392	301663	837016	0.200 50.0	1.00	5.00	10.0	30.0
2-Methylnaphthalene	NPT	Ave	2696 745285	14225	81952	150716	419604	0.200 50.0	1.00	5.00	10.0	30.0
1-Methylnaphthalene	NPT	Ave	3846 770690	18860	92797	180349	490403	0.200 50.0	1.00	5.00	10.0	30.0
Acenaphthylene	ANT	Ave	5213 1396662	29650	156651	305312	801835	0.200 50.0	1.00	5.00	10.0	30.0
Acenaphthene	ANT	Ave	4110 743745	17218	86437	170588	419418	0.200 50.0	1.00	5.00	10.0	30.0
Fluorene	ANT	Ave	3954 887590	17759	101320	192234	547833	0.200 50.0	1.00	5.00	10.0	30.0
Phenanthrene	PHN	Ave	5800 1241024	25196	136267	258887	711095	0.200 50.0	1.00	5.00	10.0	30.0
Anthracene	PHN	Ave	5355 1388133	26659	146994	283812	778079	0.200 50.0	1.00	5.00	10.0	30.0
Carbazole	PHN	Ave	4699 1222783	24572	139150	256614	692413	0.200 50.0	1.00	5.00	10.0	30.0
Fluoranthene	PHN	Ave	5681 1515990	29400	156066	302969	862141	0.200 50.0	1.00	5.00	10.0	30.0
Pyrene	CRY	Ave	5812 1521255	30866	169550	327292	882847	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[a]anthracene	CRY	Ave	6910 1323236	26522	138014	257936	735367	0.200 50.0	1.00	5.00	10.0	30.0
Chrysene	CRY	Ave	7330 1361261	32255	161246	314241	809687	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[b]fluoranthene	PRY	Ave	4707 1327571	21937	126343	236568	752076	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[k]fluoranthene	PRY	Ave	6183 1352818	30936	164403	337219	813163	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[a]pyrene	PRY	Ave	5050 1252292	22648	129901	263990	732885	0.200 50.0	1.00	5.00	10.0	30.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89896-1 Analy Batch No.: 137156

SDG No.: 68089896-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2013 10:40 Calibration End Date: 05/06/2013 11:56 Calibration ID: 2952

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Indeno[1,2,3-cd]pyrene	PRY	Ave	3985 1152680	18010	104666	216924	621385	0.200 50.0	1.00	5.00	10.0	30.0
Dibenz(a,h)anthracene	PRY	Ave	4105 1076428	21249	118003	224688	609787	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[g,h,i]perylene	PRY	Ave	4503 1116517	22641	122623	232133	633546	0.200 50.0	1.00	5.00	10.0	30.0
o-Terphenyl	PHN	Ave	3228 697232	14933	80011	154345	410873	0.200 50.0	1.00	5.00	10.0	30.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06004.D
Lab Smp Id: IC-1531396
Inj Date : 06-MAY-2013 10:40
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 06-MAY-2013 10:24 Cal File: 1AE06003.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)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.545	2.544	(1.000)	1275912	40.0000	
*	6 Acenaphthene-d10	164	3.571	3.575	(1.000)	650840	40.0000	
*	10 Phenanthrene-d10	188	4.517	4.520	(1.000)	1103640	40.0000	
$	14 o-Terphenyl	230	4.816	4.819	(1.066)	3228	0.20000	0.2043
*	18 Chrysene-d12	240	6.531	6.534	(1.000)	1048388	40.0000	
*	23 Perylene-d12	264	7.615	7.629	(1.000)	995106	40.0000	
	2 Naphthalene	128	2.556	2.554	(1.004)	5529	0.20000	0.1840(Q)
	3 2-Methylnaphthalene	141	2.962	2.960	(1.164)	2696	0.20000	0.1765
	4 1-Methylnaphthalene	142	3.015	3.014	(1.185)	3846	0.20000	0.2101
	5 Acenaphthylene	152	3.480	3.484	(0.975)	5213	0.20000	0.1704
	7 Acenaphthene	154	3.587	3.591	(1.004)	4110	0.20000	0.2340
	9 Fluorene	166	3.902	3.901	(1.093)	3954	0.20000	0.1975(T)
	11 Phenanthrene	178	4.533	4.536	(1.004)	5800	0.20000	0.2121(M)
	12 Anthracene	178	4.565	4.568	(1.011)	5355	0.20000	0.1838
	13 Carbazole	167	4.704	4.702	(1.041)	4699	0.20000	0.1794(T)
	15 Fluoranthene	202	5.393	5.396	(1.194)	5681	0.20000	0.1806(M)
	16 Pyrene	202	5.558	5.562	(0.851)	5812	0.20000	0.1724
	17 Benzo(a)anthracene	228	6.525	6.523	(0.999)	6910	0.20000	0.2345
	19 Chrysene	228	6.547	6.550	(1.002)	7330	0.20000	0.2211
	20 Benzo(b)fluoranthene	252	7.337	7.346	(0.964)	4707	0.20000	0.1789
	21 Benzo(k)fluoranthene	252	7.353	7.368	(0.966)	6183	0.20000	0.1894(M)
	22 Benzo(a)pyrene	252	7.567	7.576	(0.994)	5050	0.20000	0.1869
	24 Indeno(1,2,3-cd)pyrene	276	8.363	8.388	(1.098)	3985	0.20000	0.1760
	25 Dibenzo(a,h)anthracene	278	8.390	8.415	(1.102)	4105	0.20000	0.1769(T)
	26 Benzo(g,h,i)perylene	276	8.577	8.602	(1.126)	4503	0.20000	0.1850(M)

QC Flag Legend

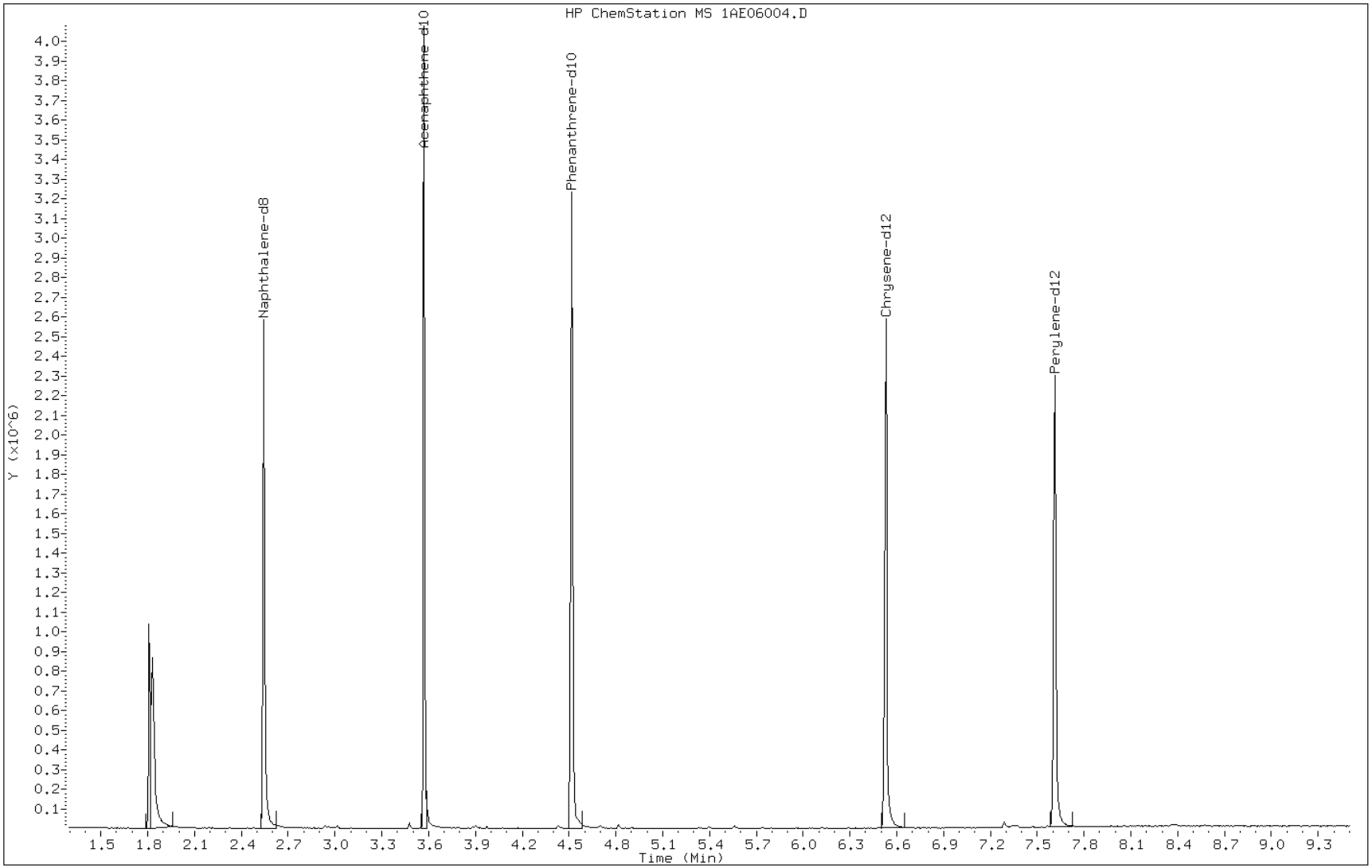
T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE06004.D

Date: 06-MAY-2013 10:40

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1AE06004.D
Inj. Date and Time: 06-MAY-2013 10:40
Instrument ID: BSMA5973.i
Client ID:
Compound: 11 Phenanthrene
CAS #: 85-01-8
Report Date: 05/06/2013

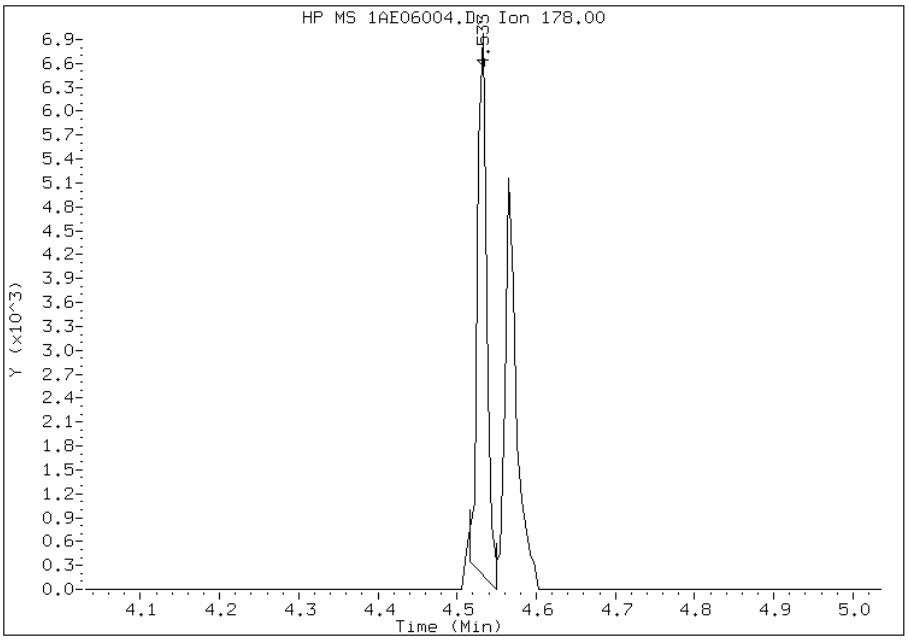
Processing Integration Results

RT: 4.53

Response: 5408

Amount: 0

Conc: 0



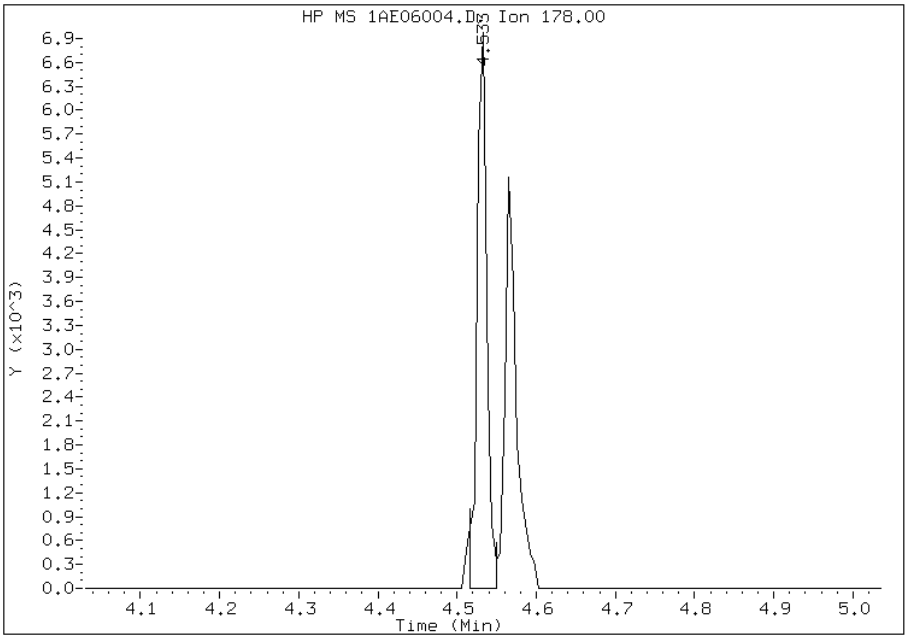
Manual Integration Results

RT: 4.53

Response: 5800

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06004.D
Inj. Date and Time: 06-MAY-2013 10:40
Instrument ID: BSMA5973.i
Client ID:
Compound: 15 Fluoranthene
CAS #: 206-44-0
Report Date: 05/06/2013

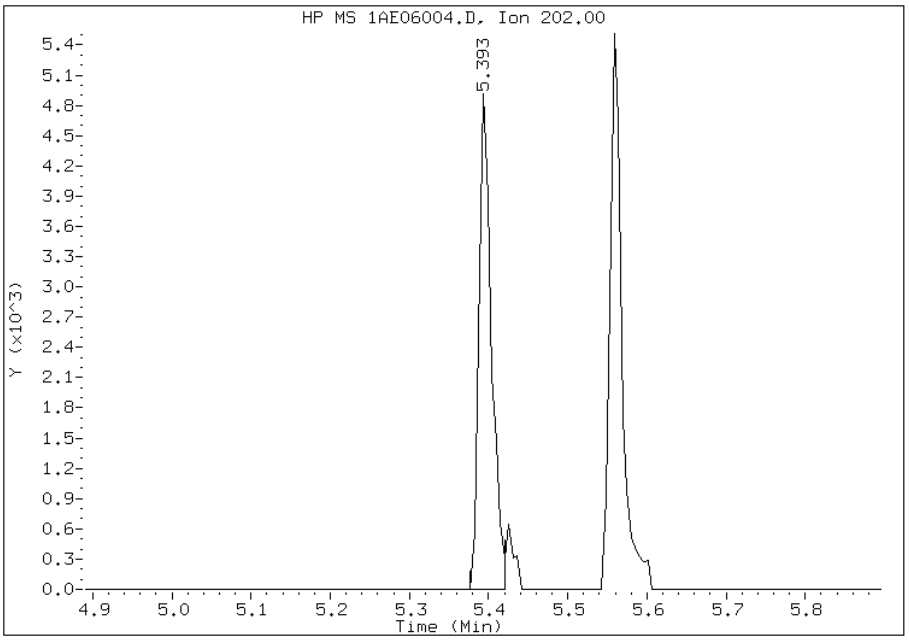
Processing Integration Results

RT: 5.39

Response: 5268

Amount: 0

Conc: 0



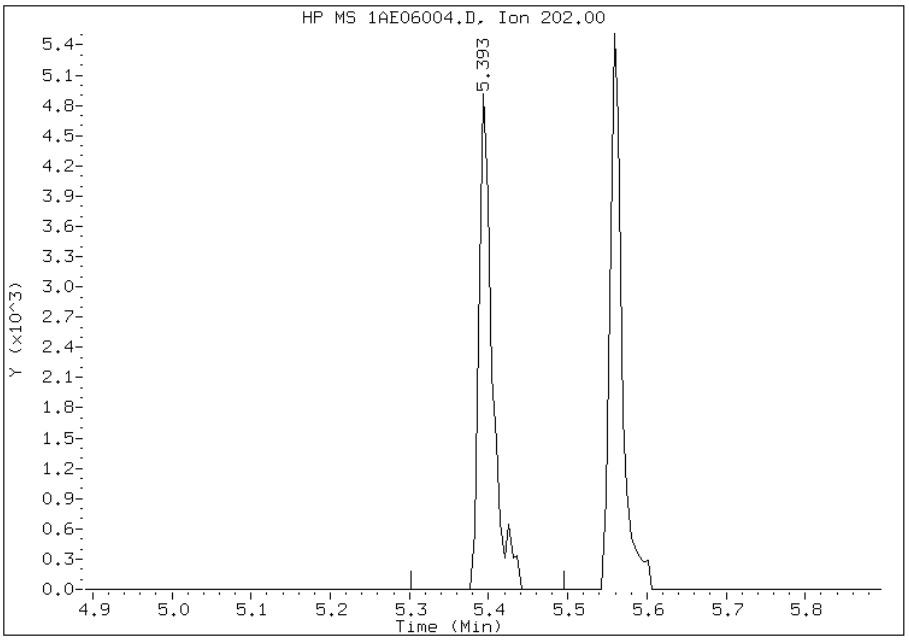
Manual Integration Results

RT: 5.39

Response: 5681

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06004.D
Inj. Date and Time: 06-MAY-2013 10:40
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/06/2013

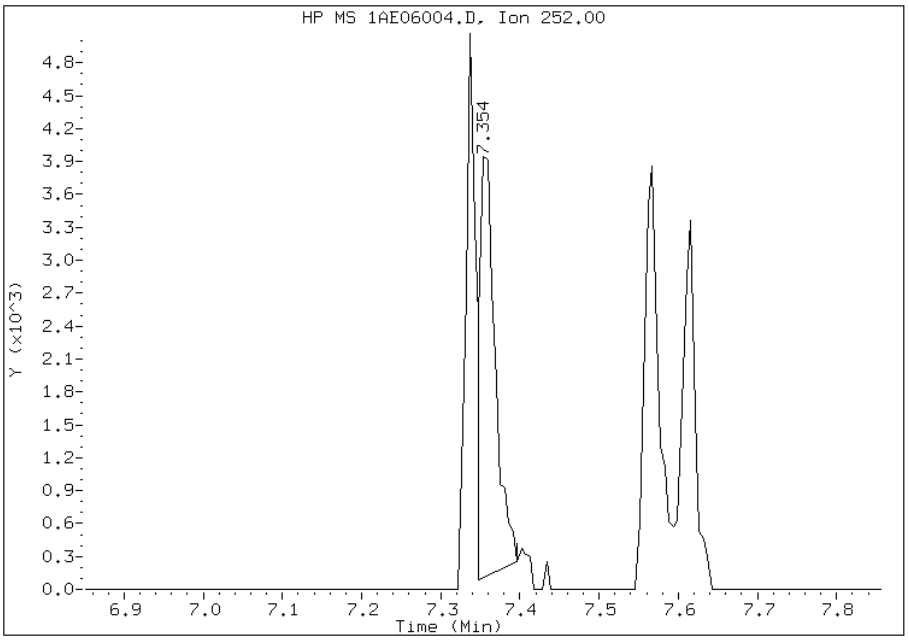
Processing Integration Results

RT: 7.35

Response: 5294

Amount: 0

Conc: 0



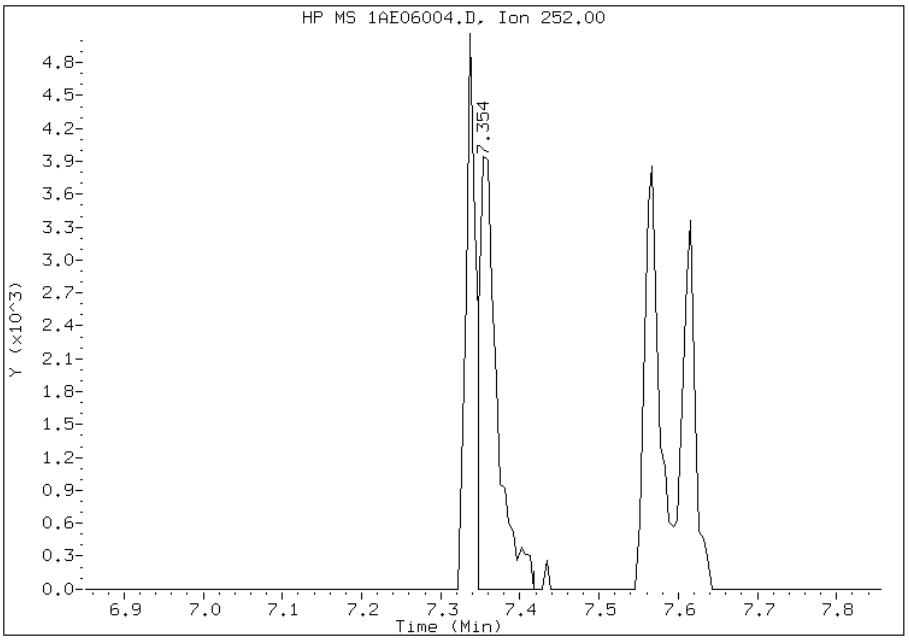
Manual Integration Results

RT: 7.35

Response: 6183

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06004.D
Inj. Date and Time: 06-MAY-2013 10:40
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

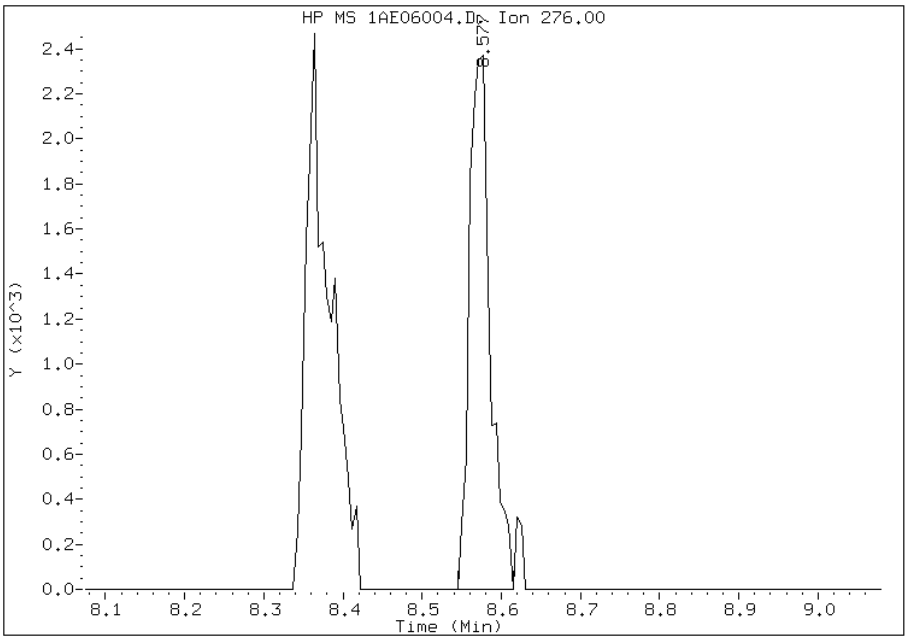
Processing Integration Results

RT: 8.58

Response: 4307

Amount: 0

Conc: 0



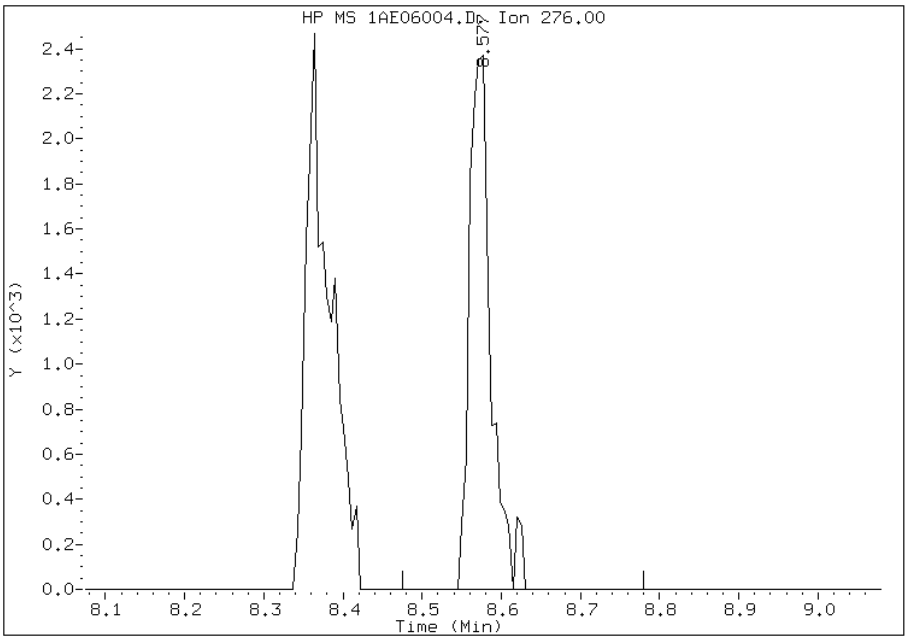
Manual Integration Results

RT: 8.58

Response: 4503

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:54
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06005.D
Lab Smp Id: IC-1531398
Inj Date : 06-MAY-2013 10:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 06-MAY-2013 10:40 Cal File: 1AE06004.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

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.543	2.544	(1.000)	1195527	40.0000	
* 6 Acenaphthene-d10	164	3.568	3.575	(1.000)	615405	40.0000	
* 10 Phenanthrene-d10	188	4.519	4.520	(1.000)	1036602	40.0000	
$ 14 o-Terphenyl	230	4.813	4.819	(1.065)	14933	1.00000	1.0065
* 18 Chrysene-d12	240	6.528	6.534	(1.000)	963465	40.0000	
* 23 Perylene-d12	264	7.612	7.629	(1.000)	938287	40.0000	
2 Naphthalene	128	2.553	2.554	(1.004)	28538	1.00000	1.0136
3 2-Methylnaphthalene	141	2.959	2.960	(1.164)	14225	1.00000	0.9941
4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	18860	1.00000	1.0997
5 Acenaphthylene	152	3.483	3.484	(0.976)	29650	1.00000	1.0253
7 Acenaphthene	154	3.584	3.591	(1.004)	17218	1.00000	1.0368
9 Fluorene	166	3.900	3.901	(1.093)	17759	1.00000	0.9383
11 Phenanthrene	178	4.530	4.536	(1.002)	25196	1.00000	0.9811
12 Anthracene	178	4.562	4.568	(1.009)	26659	1.00000	0.9745
13 Carbazole	167	4.701	4.702	(1.040)	24572	1.00000	0.9990(TM)
15 Fluoranthene	202	5.395	5.396	(1.194)	29400	1.00000	0.9951
16 Pyrene	202	5.556	5.562	(0.851)	30866	1.00000	0.9966
17 Benzo(a)anthracene	228	6.523	6.523	(0.999)	26522	1.00000	0.9794
19 Chrysene	228	6.544	6.550	(1.002)	32255	1.00000	1.0587(M)
20 Benzo(b)fluoranthene	252	7.335	7.346	(0.964)	21937	1.00000	0.8845
21 Benzo(k)fluoranthene	252	7.356	7.368	(0.966)	30936	1.00000	1.0054(M)
22 Benzo(a)pyrene	252	7.559	7.576	(0.993)	22648	1.00000	0.8892
24 Indeno(1,2,3-cd)pyrene	276	8.355	8.388	(1.098)	18010	1.00000	0.8440(M)
25 Dibenzo(a,h)anthracene	278	8.382	8.415	(1.101)	21249	1.00000	0.9715(M)
26 Benzo(g,h,i)perylene	276	8.563	8.602	(1.125)	22641	1.00000	0.9867(M)

QC Flag Legend

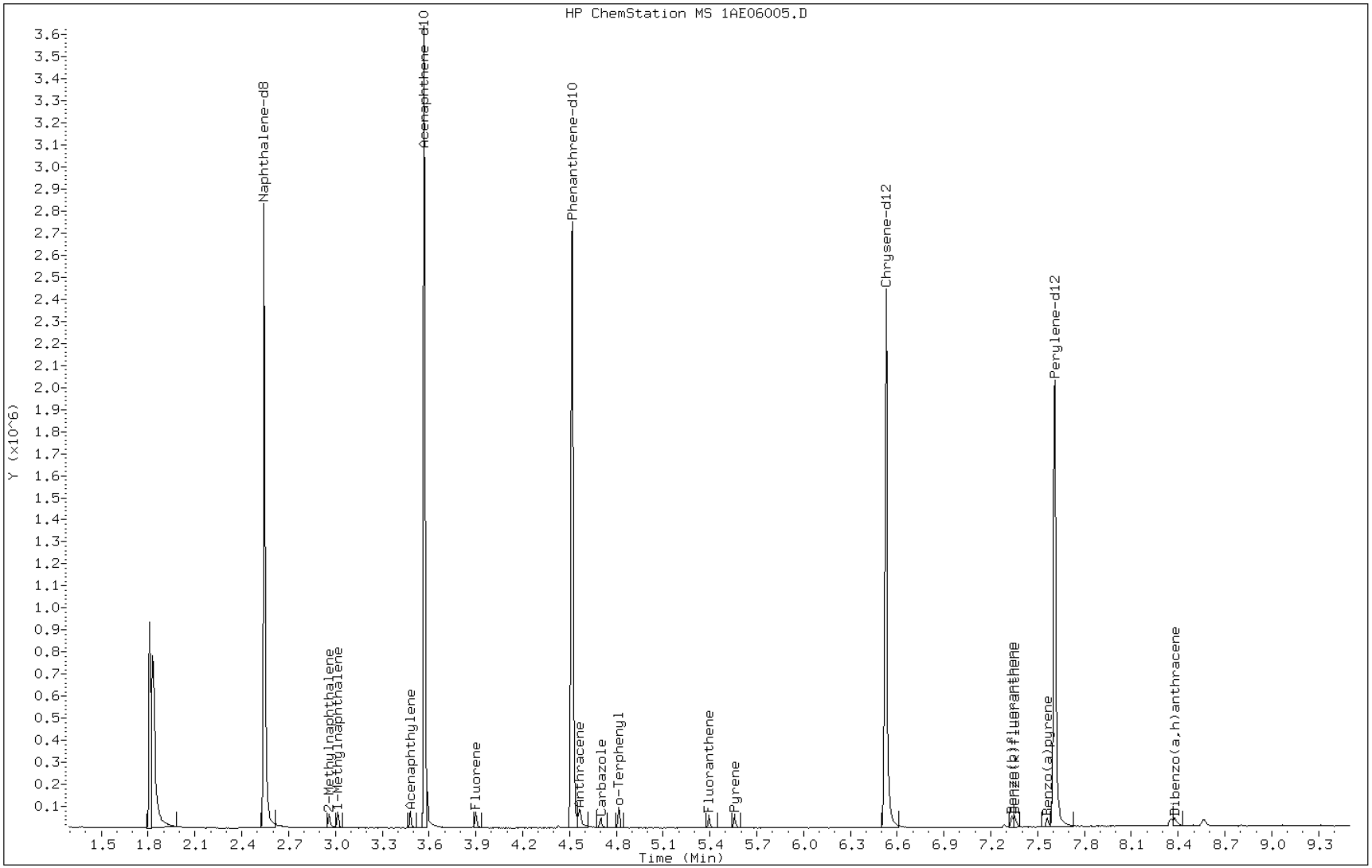
T - Target compound detected outside RT window.
M - Compound response manually integrated.

Data File: 1AE06005.D

Date: 06-MAY-2013 10:56

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1AE06005.D
Inj. Date and Time: 06-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 05/06/2013

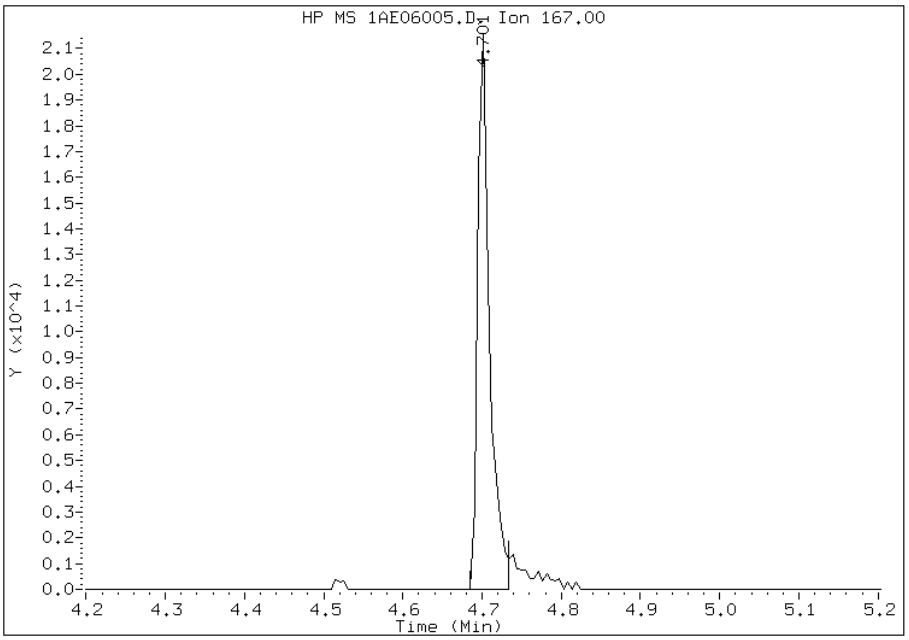
Processing Integration Results

RT: 4.70

Response: 22103

Amount: 1

Conc: 1



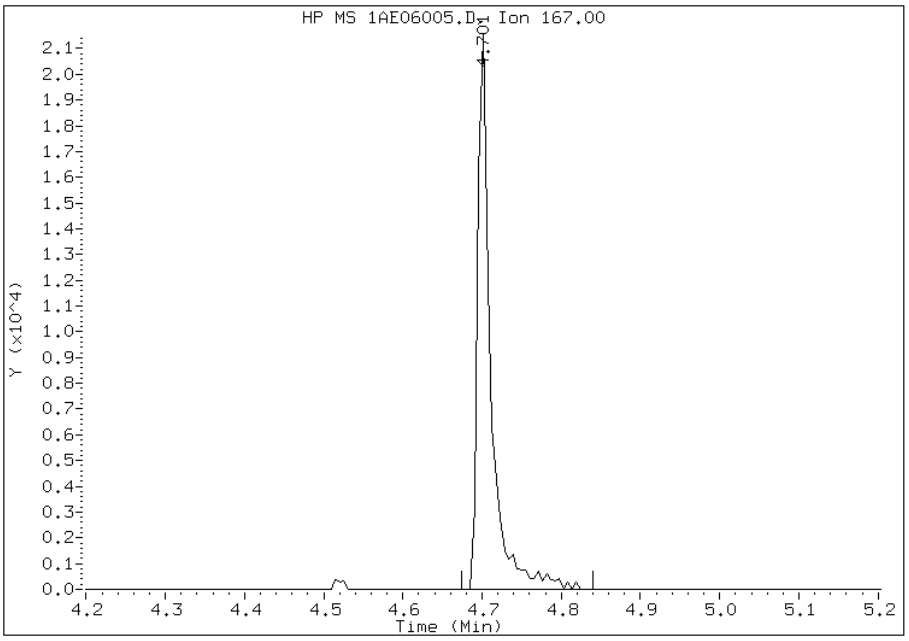
Manual Integration Results

RT: 4.70

Response: 24572

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06005.D
Inj. Date and Time: 06-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 05/06/2013

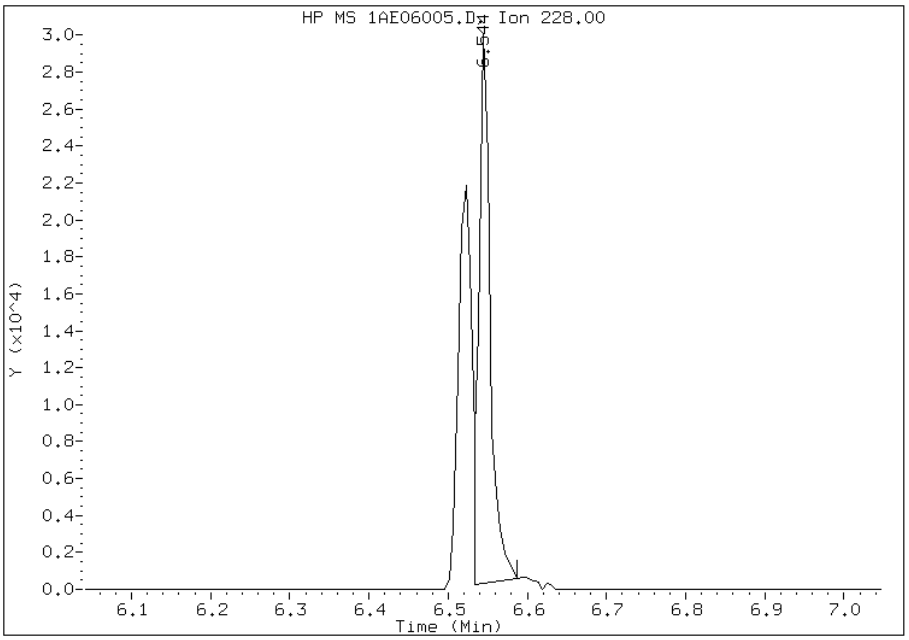
Processing Integration Results

RT: 6.54

Response: 29968

Amount: 1

Conc: 1



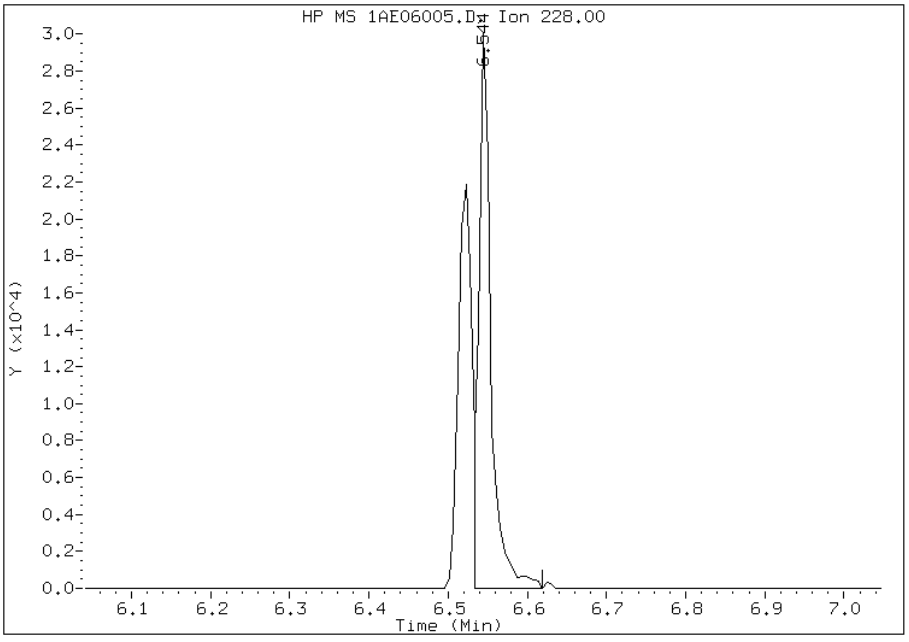
Manual Integration Results

RT: 6.54

Response: 32255

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06005.D
Inj. Date and Time: 06-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/06/2013

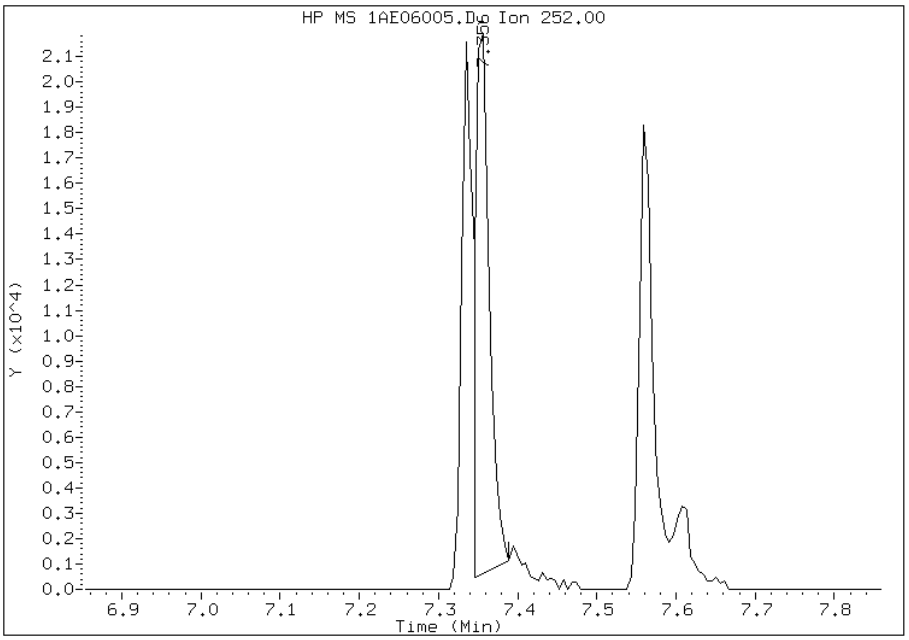
Processing Integration Results

RT: 7.36

Response: 26088

Amount: 1

Conc: 1



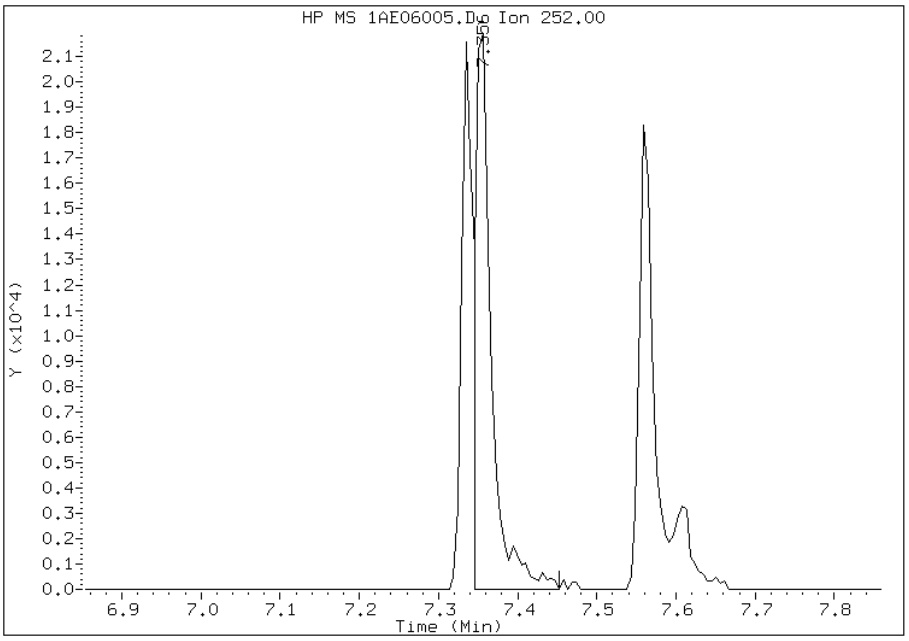
Manual Integration Results

RT: 7.36

Response: 30936

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06005.D
Inj. Date and Time: 06-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

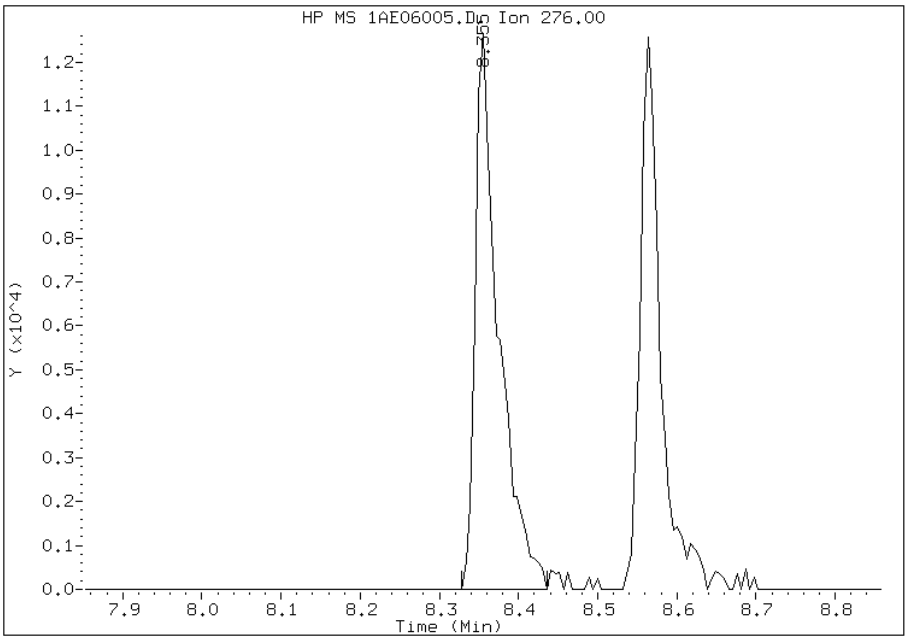
Processing Integration Results

RT: 8.36

Response: 25702

Amount: 1

Conc: 1



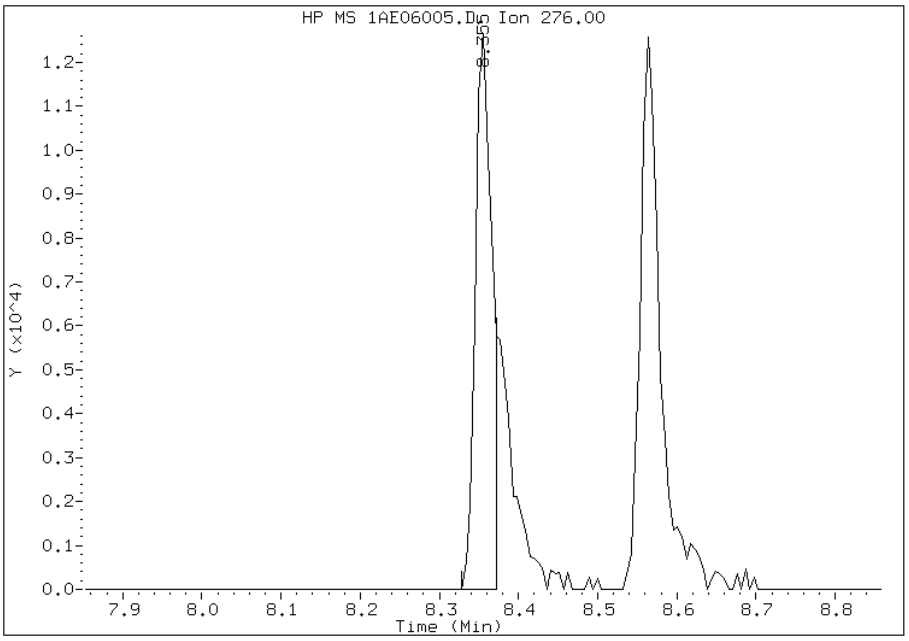
Manual Integration Results

RT: 8.36

Response: 18010

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06005.D
Inj. Date and Time: 06-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/06/2013

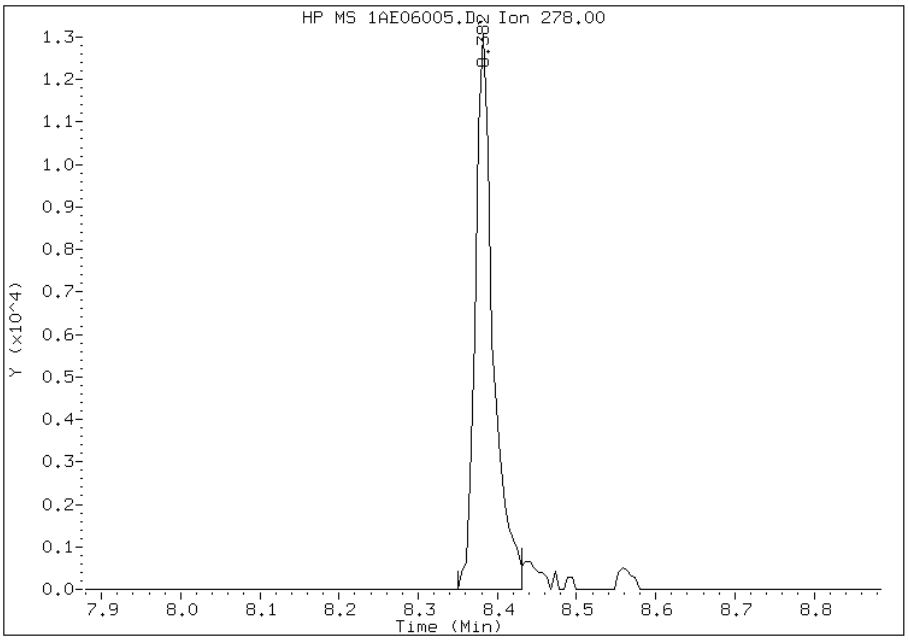
Processing Integration Results

RT: 8.38

Response: 20294

Amount: 1

Conc: 1



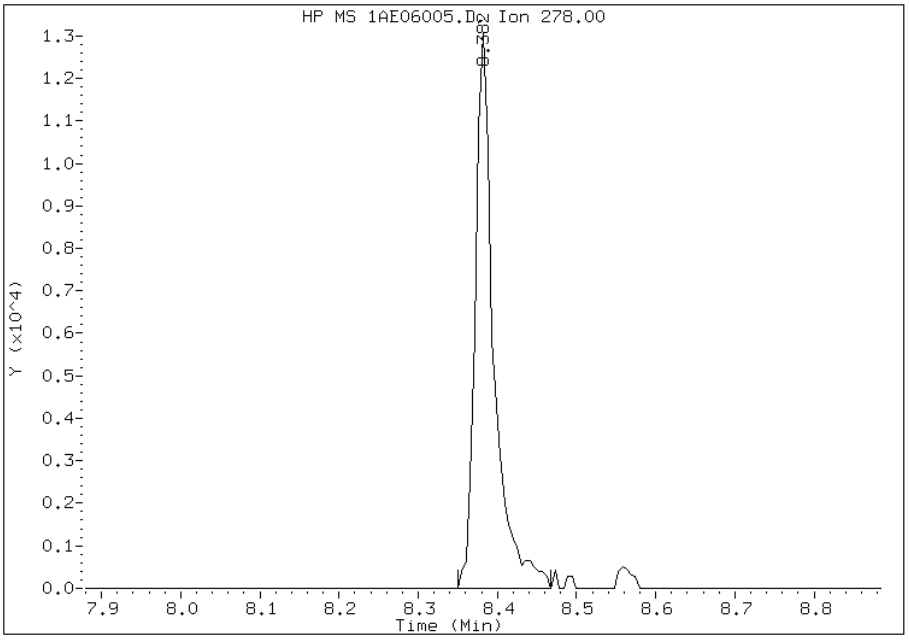
Manual Integration Results

RT: 8.38

Response: 21249

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06005.D
Inj. Date and Time: 06-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

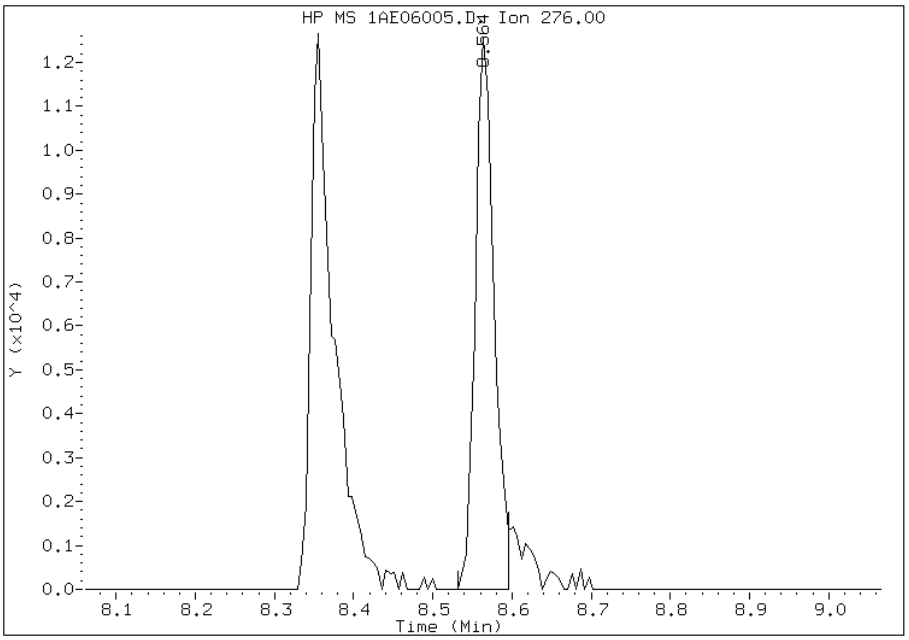
Processing Integration Results

RT: 8.56

Response: 20567

Amount: 1

Conc: 1



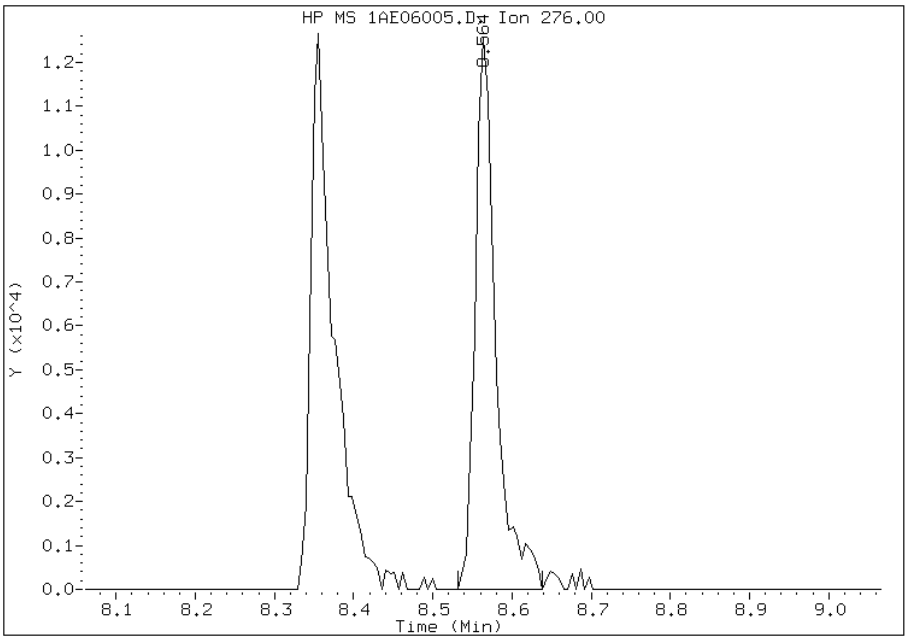
Manual Integration Results

RT: 8.56

Response: 22641

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:55
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06006.D
Lab Smp Id: IC-1531399
Inj Date : 06-MAY-2013 11:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 06-MAY-2013 10:56 Cal File: 1AE06005.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)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.544	2.544	(1.000)	1300957	40.0000	
*	6 Acenaphthene-d10	164	3.569	3.575	(1.000)	627926	40.0000	
*	10 Phenanthrene-d10	188	4.520	4.520	(1.000)	1066875	40.0000	
$	14 o-Terphenyl	230	4.814	4.819	(1.065)	80011	5.00000	5.2399
*	18 Chrysene-d12	240	6.529	6.534	(1.000)	1008970	40.0000	
*	23 Perylene-d12	264	7.613	7.629	(1.000)	951721	40.0000	
	2 Naphthalene	128	2.554	2.554	(1.004)	156392	5.00000	5.1047
	3 2-Methylnaphthalene	141	2.960	2.960	(1.164)	81952	5.00000	5.2634
	4 1-Methylnaphthalene	142	3.014	3.014	(1.185)	92797	5.00000	4.9724
	5 Acenaphthylene	152	3.484	3.484	(0.976)	156651	5.00000	5.3091
	7 Acenaphthene	154	3.585	3.591	(1.004)	86437	5.00000	5.1011
	9 Fluorene	166	3.901	3.901	(1.093)	101320	5.00000	5.2469
	11 Phenanthrene	178	4.531	4.536	(1.002)	136267	5.00000	5.1555
	12 Anthracene	178	4.563	4.568	(1.009)	146994	5.00000	5.2208
	13 Carbazole	167	4.697	4.702	(1.039)	139150	5.00000	5.4968(M)
	15 Fluoranthene	202	5.391	5.396	(1.193)	156066	5.00000	5.1326
	16 Pyrene	202	5.557	5.562	(0.851)	169550	5.00000	5.2278
	17 Benzo(a)anthracene	228	6.524	6.523	(0.999)	138014	5.00000	4.8671
	19 Chrysene	228	6.545	6.550	(1.002)	161246	5.00000	5.0539
	20 Benzo(b)fluoranthene	252	7.336	7.346	(0.964)	126343	5.00000	5.0224
	21 Benzo(k)fluoranthene	252	7.357	7.368	(0.966)	164403	5.00000	5.2680
	22 Benzo(a)pyrene	252	7.565	7.576	(0.994)	129901	5.00000	5.0281
	24 Indeno(1,2,3-cd)pyrene	276	8.361	8.388	(1.098)	104666	5.00000	4.8360(M)
	25 Dibenzo(a,h)anthracene	278	8.388	8.415	(1.102)	118003	5.00000	5.3189(M)
	26 Benzo(g,h,i)perylene	276	8.570	8.602	(1.126)	122623	5.00000	5.2687(M)

QC Flag Legend

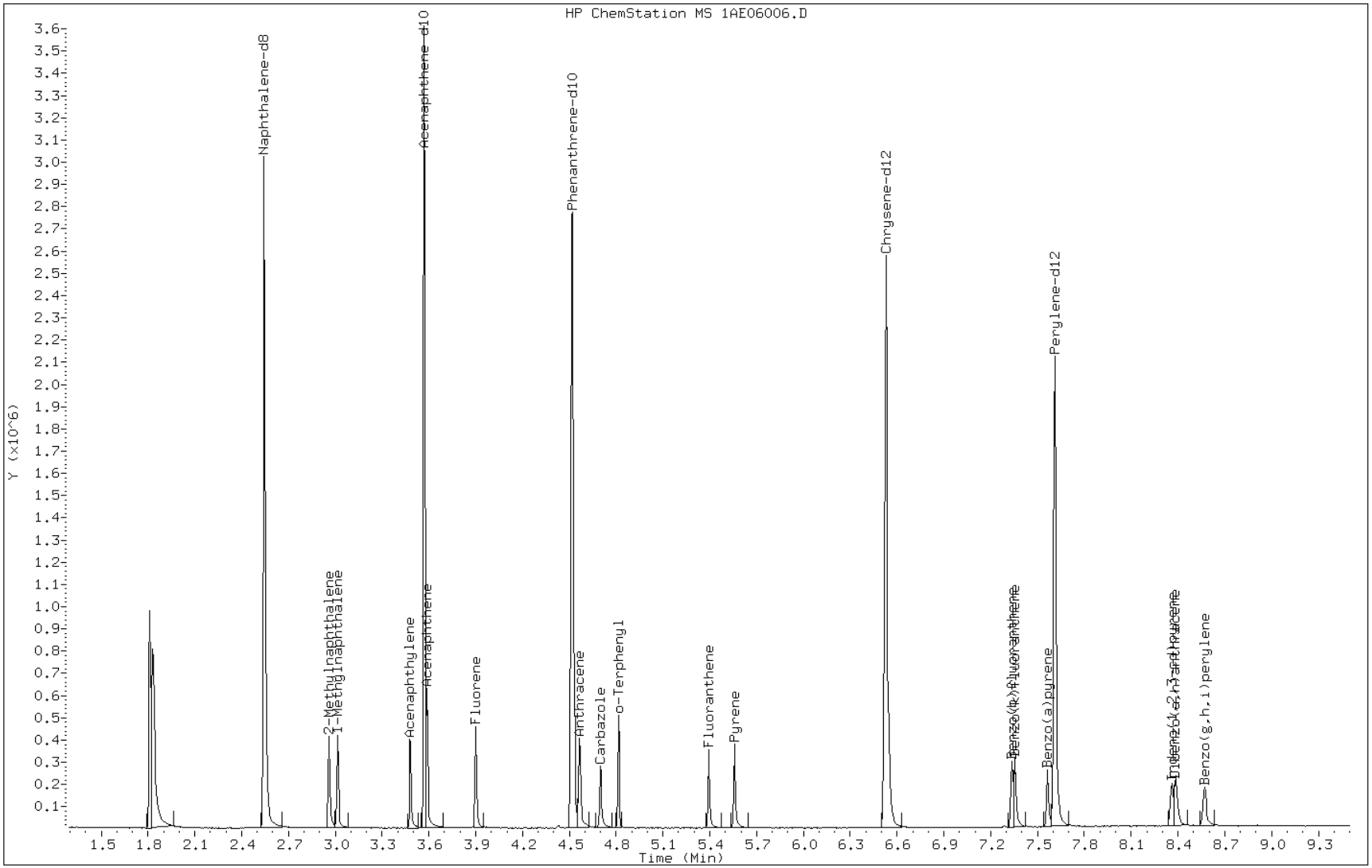
M - Compound response manually integrated.

Data File: 1AE06006.D

Date: 06-MAY-2013 11:11

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1AE06006.D
Inj. Date and Time: 06-MAY-2013 11:11
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 05/06/2013

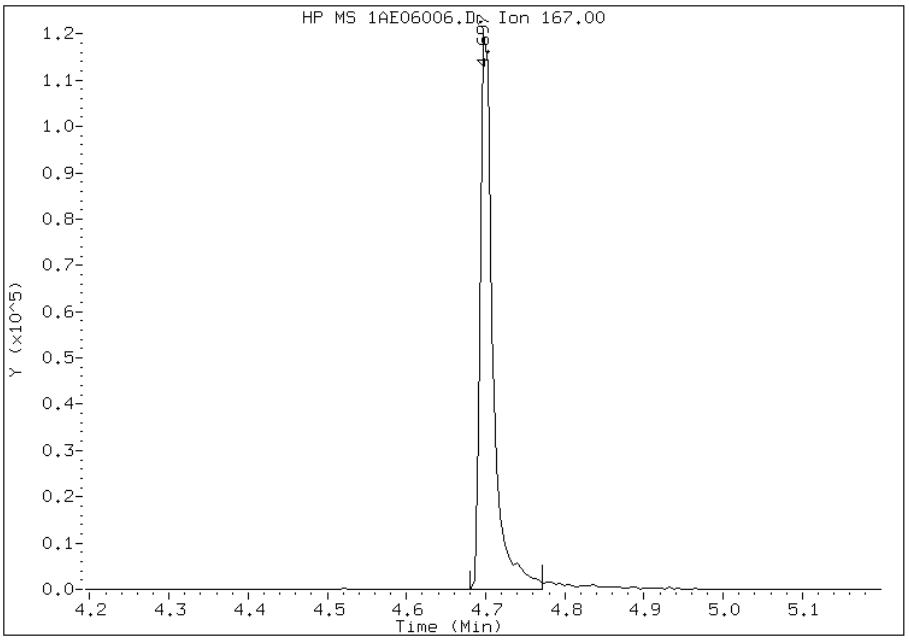
Processing Integration Results

RT: 4.70

Response: 132433

Amount: 5

Conc: 5



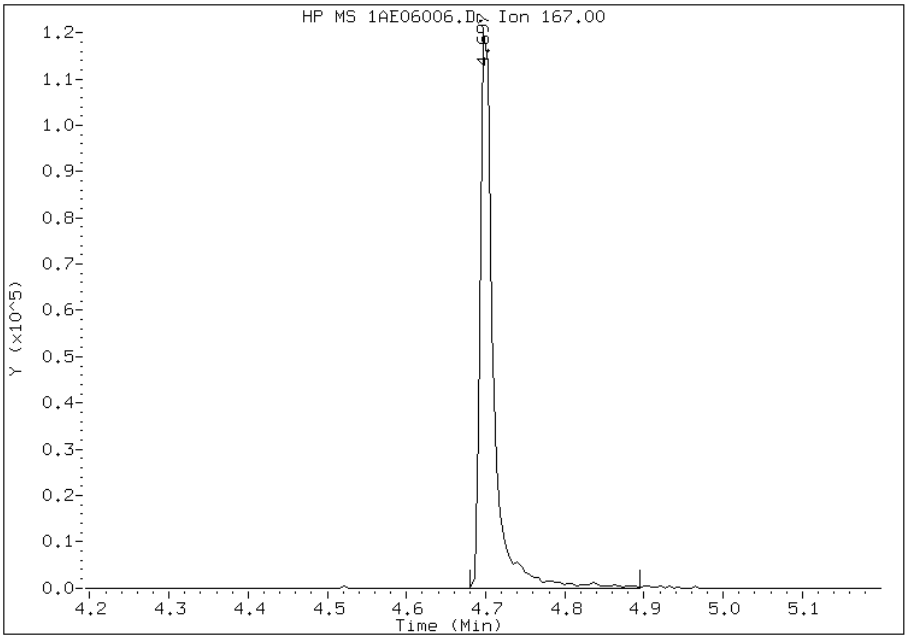
Manual Integration Results

RT: 4.70

Response: 139150

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06006.D
Inj. Date and Time: 06-MAY-2013 11:11
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

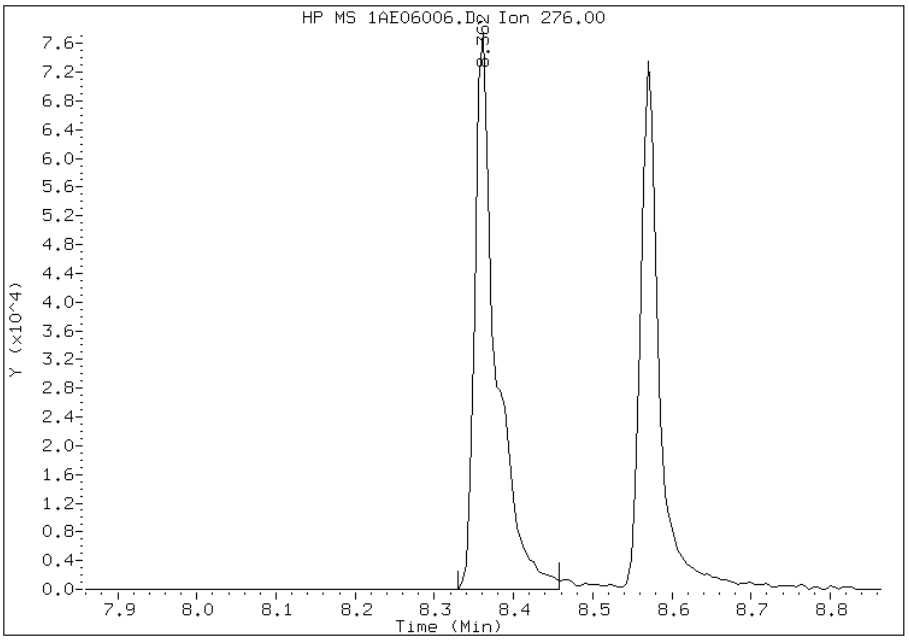
Processing Integration Results

RT: 8.36

Response: 144694

Amount: 6

Conc: 6



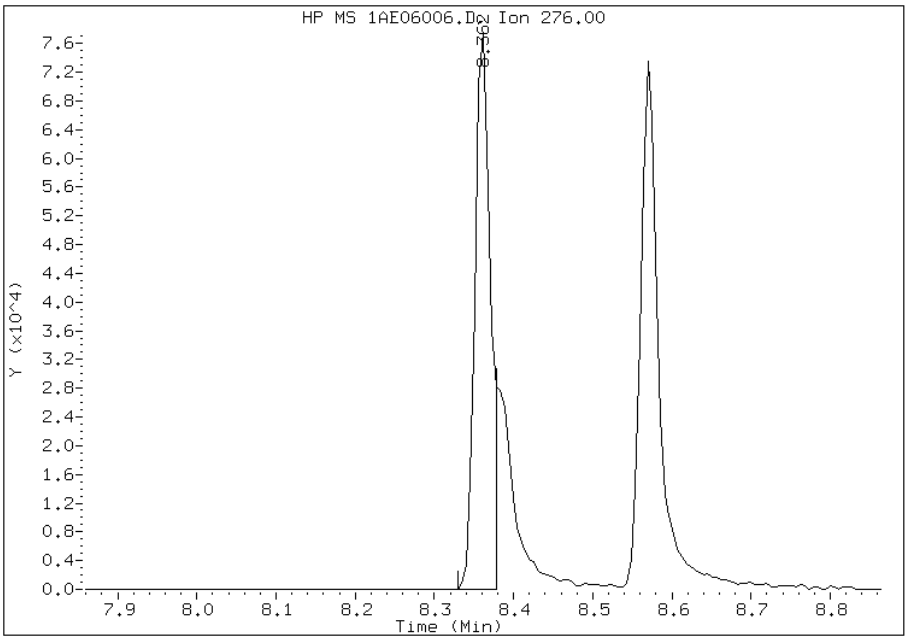
Manual Integration Results

RT: 8.36

Response: 104666

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:57
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06006.D
Inj. Date and Time: 06-MAY-2013 11:11
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/06/2013

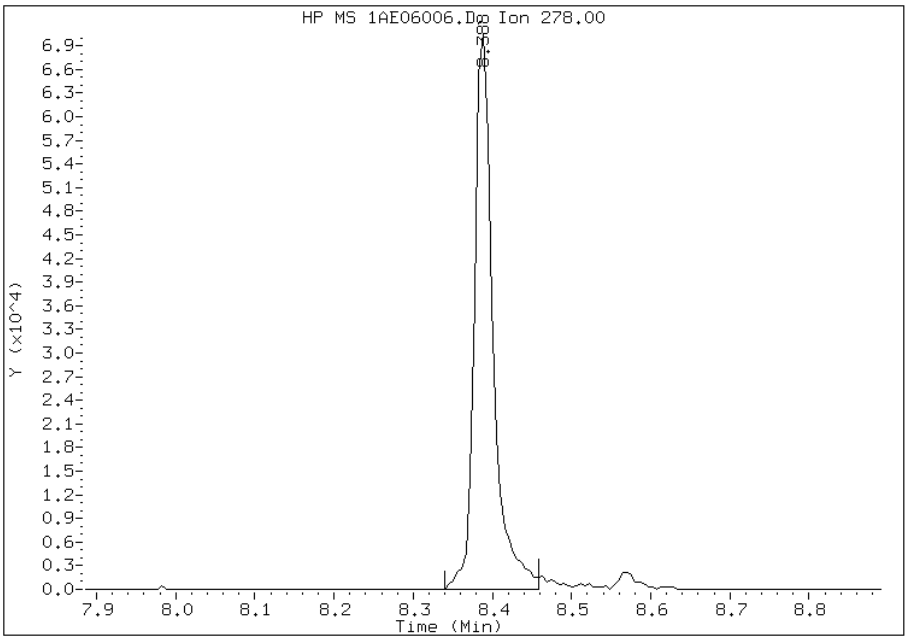
Processing Integration Results

RT: 8.39

Response: 114675

Amount: 5

Conc: 5



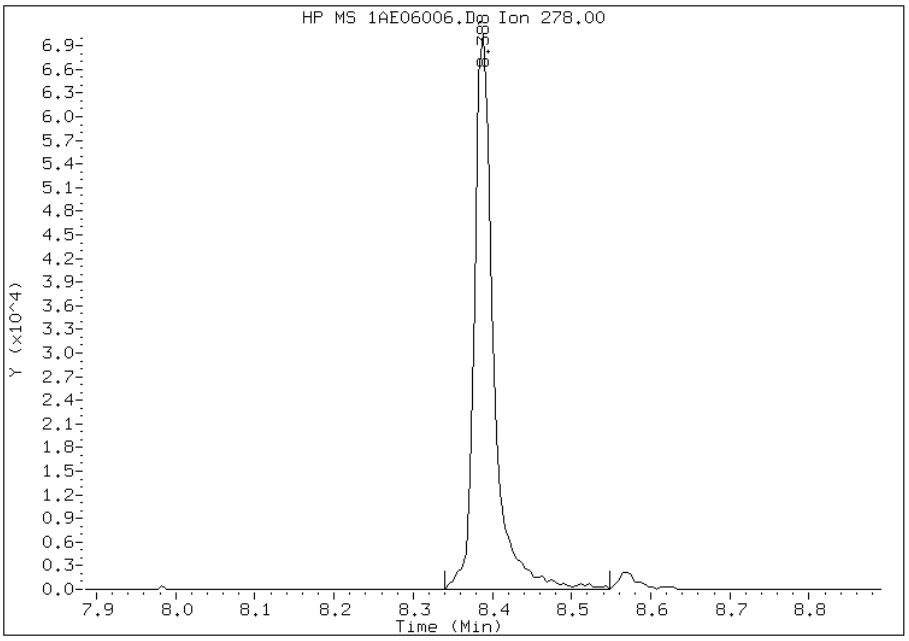
Manual Integration Results

RT: 8.39

Response: 118003

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06006.D
Inj. Date and Time: 06-MAY-2013 11:11
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

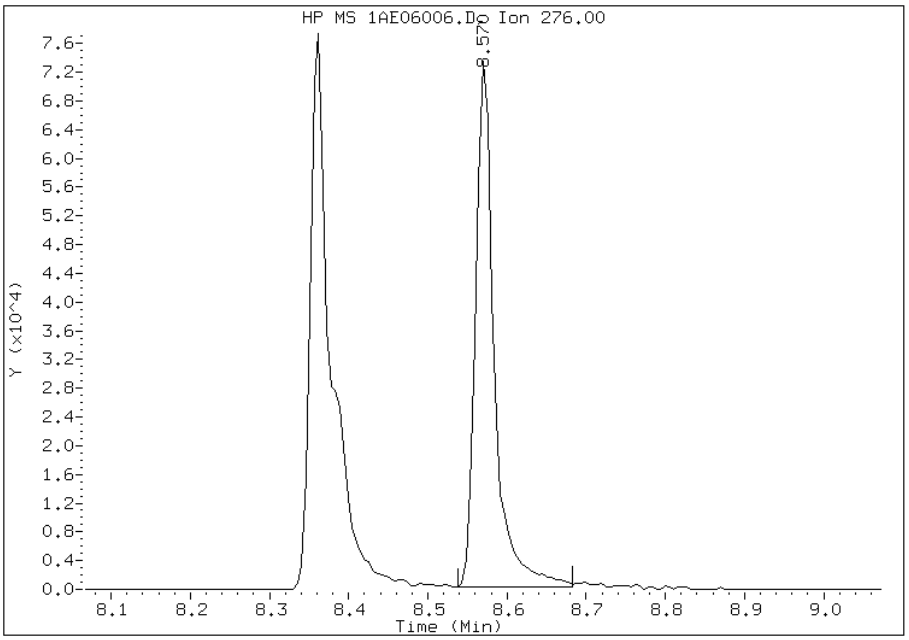
Processing Integration Results

RT: 8.57

Response: 119162

Amount: 5

Conc: 5



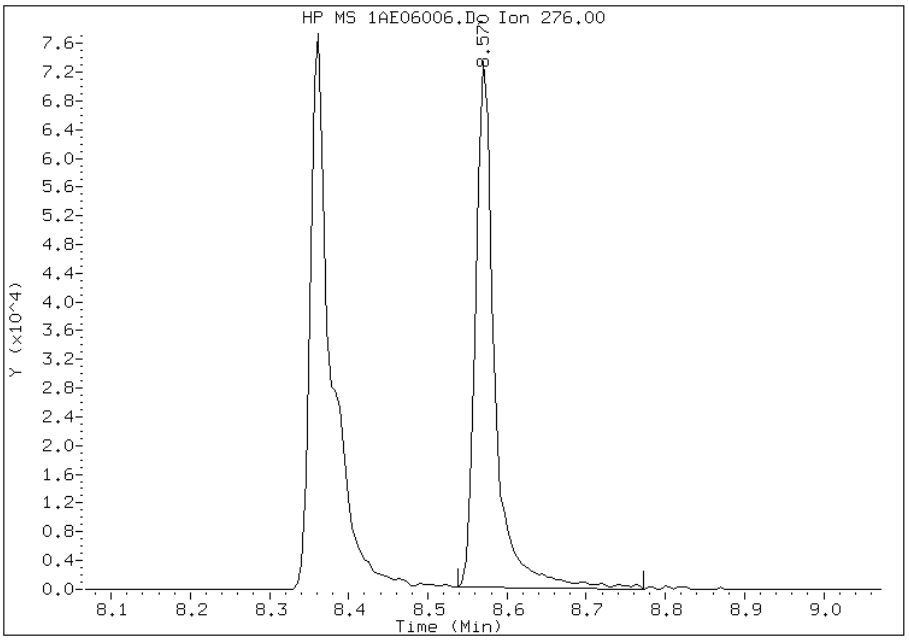
Manual Integration Results

RT: 8.57

Response: 122623

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:57
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06007.D
Lab Smp Id: IC-1531400
Inj Date : 06-MAY-2013 11:26
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 06-MAY-2013 11:11 Cal File: 1AE06006.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)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.544	2.544	(1.000)	1250785	40.0000	
*	6 Acenaphthene-d10	164	3.569	3.575	(1.000)	625378	40.0000	
*	10 Phenanthrene-d10	188	4.515	4.520	(1.000)	1057947	40.0000	
$	14 o-Terphenyl	230	4.814	4.819	(1.066)	154345	10.0000	10.1934
*	18 Chrysene-d12	240	6.534	6.534	(1.000)	990305	40.0000	
*	23 Perylene-d12	264	7.613	7.629	(1.000)	956248	40.0000	
	2 Naphthalene	128	2.554	2.554	(1.004)	301663	10.0000	10.2415
	3 2-Methylnaphthalene	141	2.960	2.960	(1.164)	150716	10.0000	10.0682
	4 1-Methylnaphthalene	142	3.014	3.014	(1.185)	180349	10.0000	10.0514
	5 Acenaphthylene	152	3.484	3.484	(0.976)	305312	10.0000	10.3897
	7 Acenaphthene	154	3.586	3.591	(1.004)	170588	10.0000	10.1084
	9 Fluorene	166	3.901	3.901	(1.093)	192234	10.0000	9.9956
	11 Phenanthrene	178	4.531	4.536	(1.004)	258887	10.0000	9.8774
	12 Anthracene	178	4.568	4.568	(1.012)	283812	10.0000	10.1653
	13 Carbazole	167	4.702	4.702	(1.041)	256614	10.0000	10.2225
	15 Fluoranthene	202	5.396	5.396	(1.195)	302969	10.0000	10.0480
	16 Pyrene	202	5.557	5.562	(0.850)	327292	10.0000	10.2817
	17 Benzo(a)anthracene	228	6.518	6.523	(0.998)	257936	10.0000	9.2676
	19 Chrysene	228	6.550	6.550	(1.002)	314241	10.0000	10.0348
	20 Benzo(b)fluoranthene	252	7.336	7.346	(0.964)	236568	10.0000	9.3596
	21 Benzo(k)fluoranthene	252	7.357	7.368	(0.966)	337219	10.0000	10.7544
	22 Benzo(a)pyrene	252	7.565	7.576	(0.994)	263990	10.0000	10.1700
	24 Indeno(1,2,3-cd)pyrene	276	8.361	8.388	(1.098)	216924	10.0000	9.9754(M)
	25 Dibenzo(a,h)anthracene	278	8.388	8.415	(1.102)	224688	10.0000	10.0798
	26 Benzo(g,h,i)perylene	276	8.575	8.602	(1.126)	232133	10.0000	9.9268(M)

QC Flag Legend

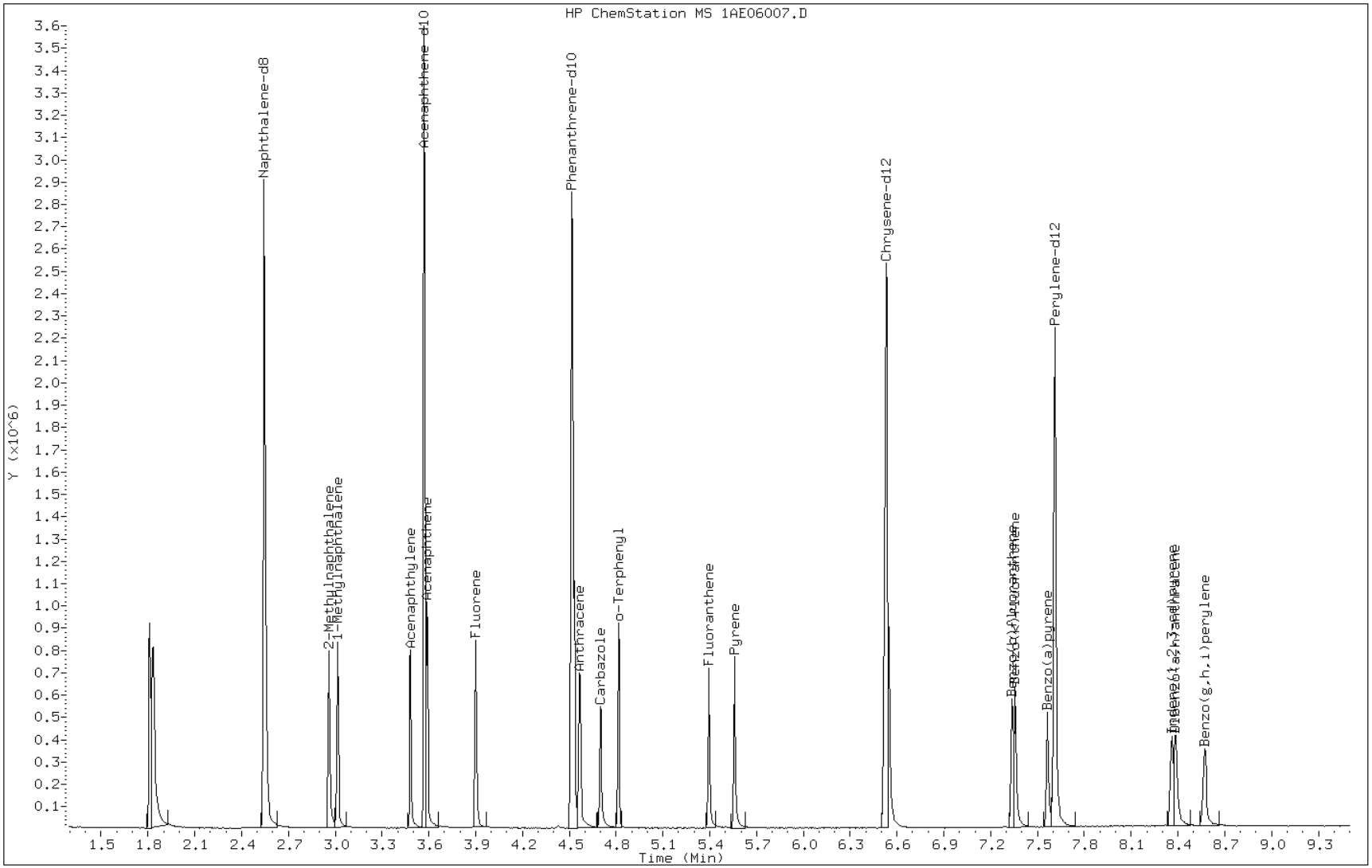
M - Compound response manually integrated.

Data File: 1AE06007.D

Date: 06-MAY-2013 11:26

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531400 Operator: SCC



Manual Integration Report

Data File: 1AE06007.D
Inj. Date and Time: 06-MAY-2013 11:26
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

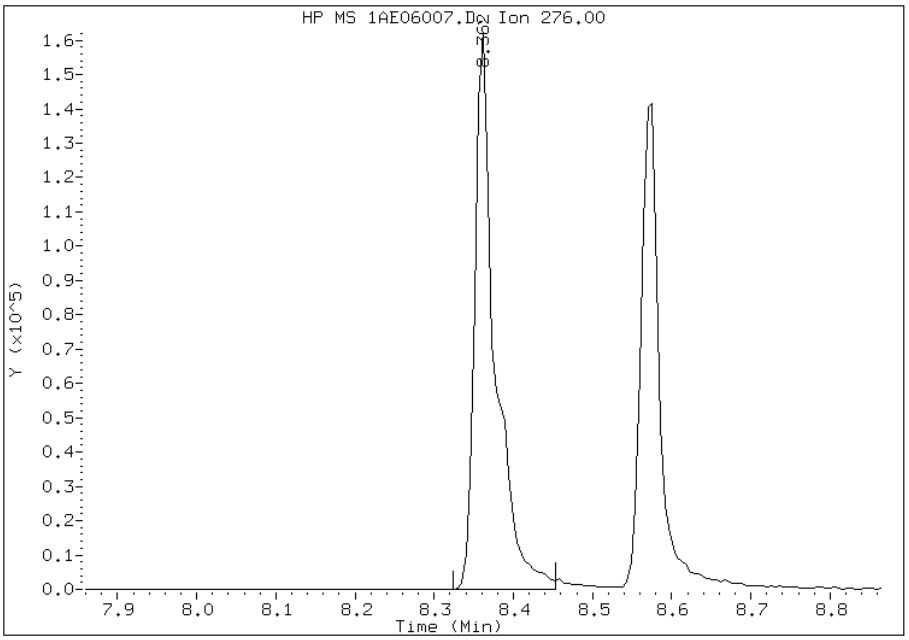
Processing Integration Results

RT: 8.36

Response: 287823

Amount: 13

Conc: 13



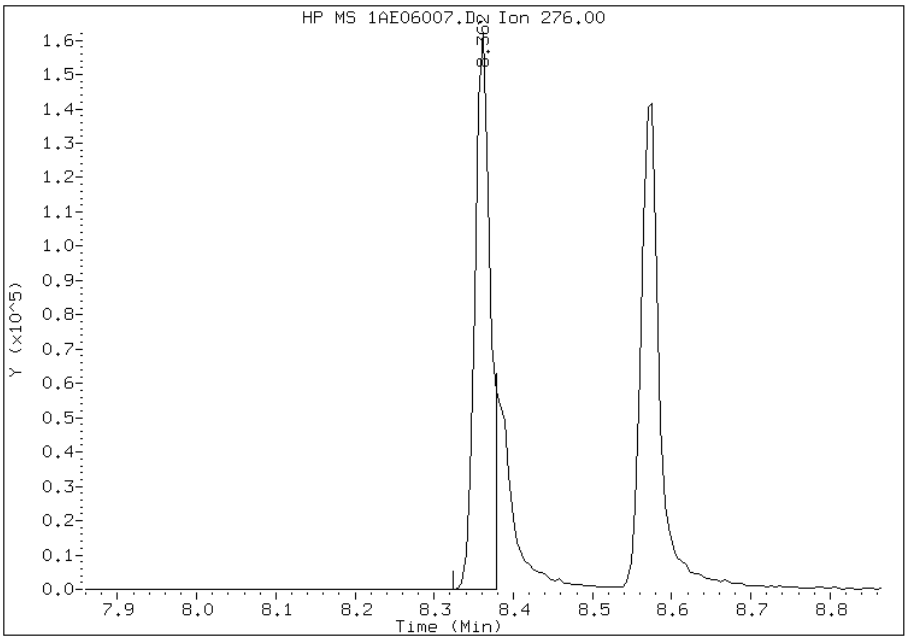
Manual Integration Results

RT: 8.36

Response: 216924

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:58
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06007.D
Inj. Date and Time: 06-MAY-2013 11:26
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

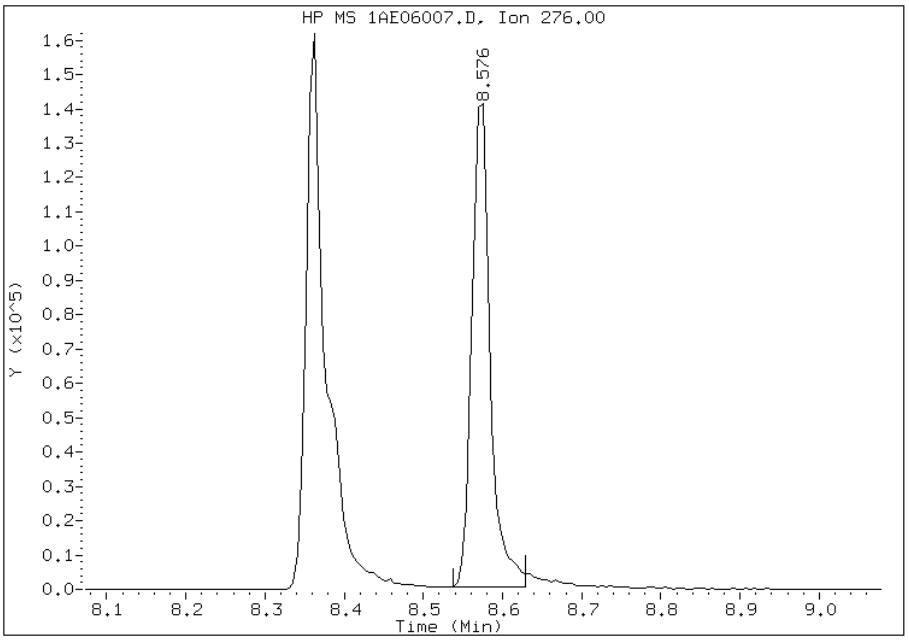
Processing Integration Results

RT: 8.58

Response: 224520

Amount: 9

Conc: 9



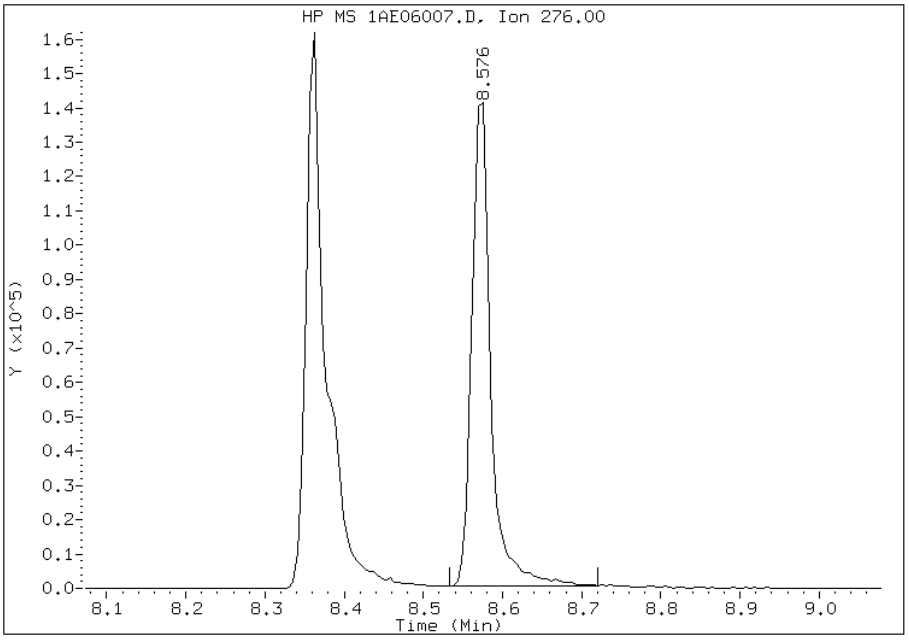
Manual Integration Results

RT: 8.58

Response: 232133

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:58
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06008.D
Lab Smp Id: IC-1531402
Inj Date : 06-MAY-2013 11:41
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 06-MAY-2013 11:26 Cal File: 1AE06007.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

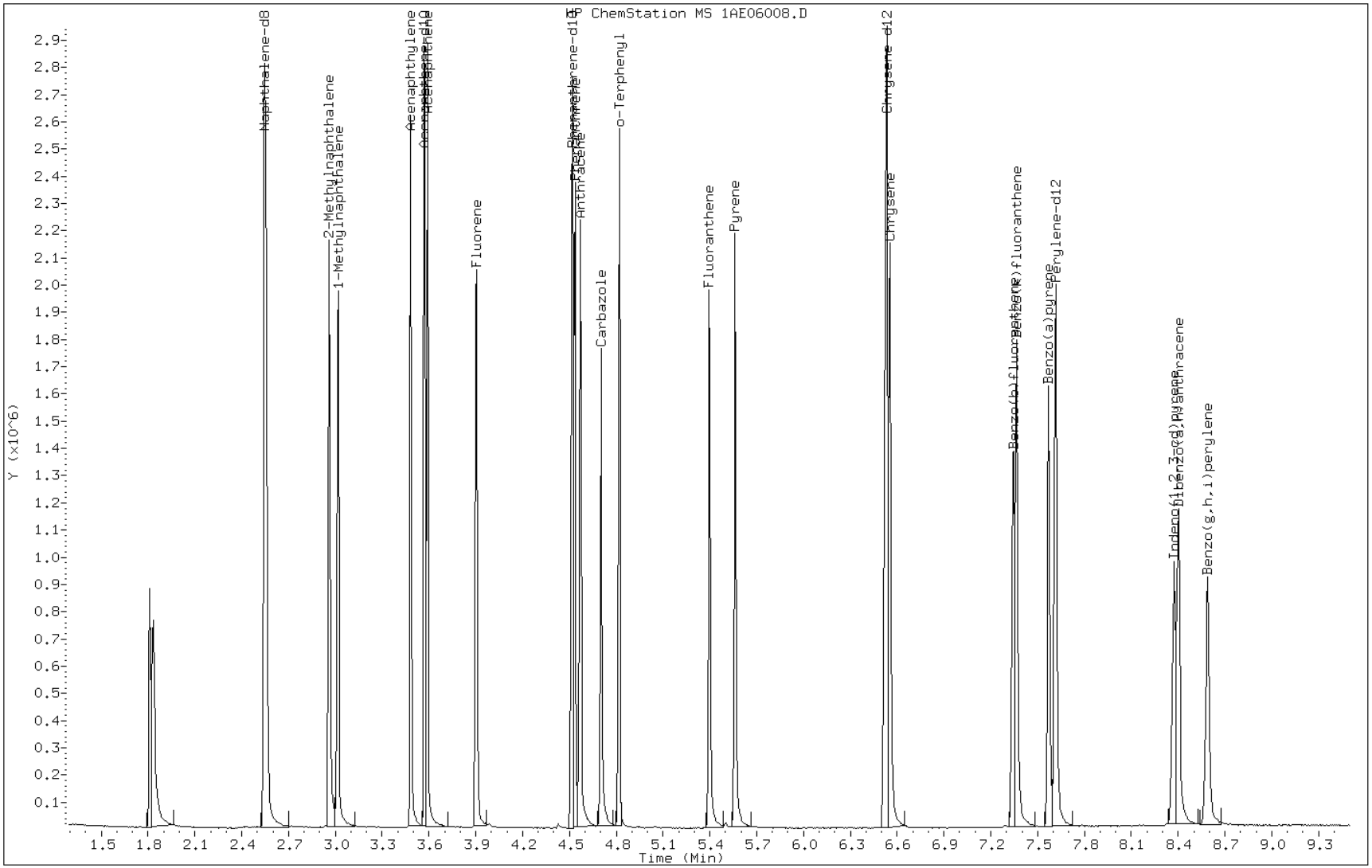
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.543	2.544	(1.000)	1147240	40.0000	
*	6 Acenaphthene-d10	164	3.569	3.575	(1.000)	572111	40.0000	
*	10 Phenanthrene-d10	188	4.519	4.520	(1.000)	993324	40.0000	
$	14 o-Terphenyl	230	4.819	4.819	(1.066)	410873	30.0000	28.9008
*	18 Chrysene-d12	240	6.533	6.534	(1.000)	899878	40.0000	
*	23 Perylene-d12	264	7.618	7.629	(1.000)	841369	40.0000	
	2 Naphthalene	128	2.554	2.554	(1.004)	837016	30.0000	30.9816
	3 2-Methylnaphthalene	141	2.959	2.960	(1.164)	419604	30.0000	30.5606
	4 1-Methylnaphthalene	142	3.018	3.014	(1.187)	490403	30.0000	29.7987
	5 Acenaphthylene	152	3.483	3.484	(0.976)	801835	30.0000	29.8269
	7 Acenaphthene	154	3.590	3.591	(1.006)	419418	30.0000	27.1672
	9 Fluorene	166	3.905	3.901	(1.094)	547833	30.0000	31.1380
	11 Phenanthrene	178	4.535	4.536	(1.004)	711095	30.0000	28.8959
	12 Anthracene	178	4.567	4.568	(1.011)	778079	30.0000	29.6817
	13 Carbazole	167	4.701	4.702	(1.040)	692413	30.0000	29.3775
	15 Fluoranthene	202	5.396	5.396	(1.194)	862141	30.0000	30.4532
	16 Pyrene	202	5.561	5.562	(0.851)	882847	30.0000	30.5213
	17 Benzo(a)anthracene	228	6.523	6.523	(0.998)	735367	30.0000	29.0768
	19 Chrysene	228	6.555	6.550	(1.003)	809687	30.0000	28.4545
	20 Benzo(b)fluoranthene	252	7.345	7.346	(0.964)	752076	30.0000	33.8181
	21 Benzo(k)fluoranthene	252	7.367	7.368	(0.967)	813163	30.0000	29.4740
	22 Benzo(a)pyrene	252	7.570	7.576	(0.994)	732885	30.0000	32.0890
	24 Indeno(1,2,3-cd)pyrene	276	8.376	8.388	(1.100)	621385	30.0000	32.4764
	25 Dibenzo(a,h)anthracene	278	8.403	8.415	(1.103)	609787	30.0000	31.0911
	26 Benzo(g,h,i)perylene	276	8.590	8.602	(1.128)	633546	30.0000	30.7920

Data File: 1AE06008.D

Date: 06-MAY-2013 11:41

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531402 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06009.D
Lab Smp Id: IC-1531403
Inj Date : 06-MAY-2013 11:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 06-MAY-2013 11:41 Cal File: 1AE06008.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)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.548	2.544	(1.000)	1212217	40.0000	
*	6 Acenaphthene-d10	164	3.574	3.575	(1.000)	607535	40.0000	
*	10 Phenanthrene-d10	188	4.519	4.520	(1.000)	1039476	40.0000	
$	14 o-Terphenyl	230	4.824	4.819	(1.067)	697232	50.0000	46.8659
*	18 Chrysene-d12	240	6.539	6.534	(1.000)	921157	40.0000	
*	23 Perylene-d12	264	7.618	7.629	(1.000)	881033	40.0000	
	2 Naphthalene	128	2.559	2.554	(1.004)	1397244	50.0000	48.9459
	3 2-Methylnaphthalene	141	2.965	2.960	(1.163)	745285	50.0000	51.3711(A)
	4 1-Methylnaphthalene	142	3.018	3.014	(1.184)	770690	50.0000	44.3198
	5 Acenaphthylene	152	3.483	3.484	(0.975)	1396662	50.0000	48.9242
	7 Acenaphthene	154	3.590	3.591	(1.004)	743745	50.0000	45.3661
	9 Fluorene	166	3.905	3.901	(1.093)	887590	50.0000	47.5077
	11 Phenanthrene	178	4.535	4.536	(1.004)	1241024	50.0000	48.1910
	12 Anthracene	178	4.573	4.568	(1.012)	1388133	50.0000	50.6026(AM)
	13 Carbazole	167	4.706	4.702	(1.041)	1222783	50.0000	49.5765
	15 Fluoranthene	202	5.401	5.396	(1.195)	1515990	50.0000	51.1715(A)
	16 Pyrene	202	5.566	5.562	(0.851)	1521255	50.0000	51.3772(A)
	17 Benzo(a)anthracene	228	6.528	6.523	(0.998)	1323236	50.0000	51.1129(A)
	19 Chrysene	228	6.560	6.550	(1.003)	1361261	50.0000	46.7332
	20 Benzo(b)fluoranthene	252	7.351	7.346	(0.965)	1327571	50.0000	57.0086(A)
	21 Benzo(k)fluoranthene	252	7.372	7.368	(0.968)	1352818	50.0000	46.8269(H)
	22 Benzo(a)pyrene	252	7.580	7.576	(0.995)	1252292	50.0000	52.3625(A)
	24 Indeno(1,2,3-cd)pyrene	276	8.382	8.388	(1.100)	1152680	50.0000	57.5322(A)
	25 Dibenzo(a,h)anthracene	278	8.414	8.415	(1.104)	1076428	50.0000	52.4129(A)
	26 Benzo(g,h,i)perylene	276	8.606	8.602	(1.130)	1116517	50.0000	51.8227(A)

QC Flag Legend

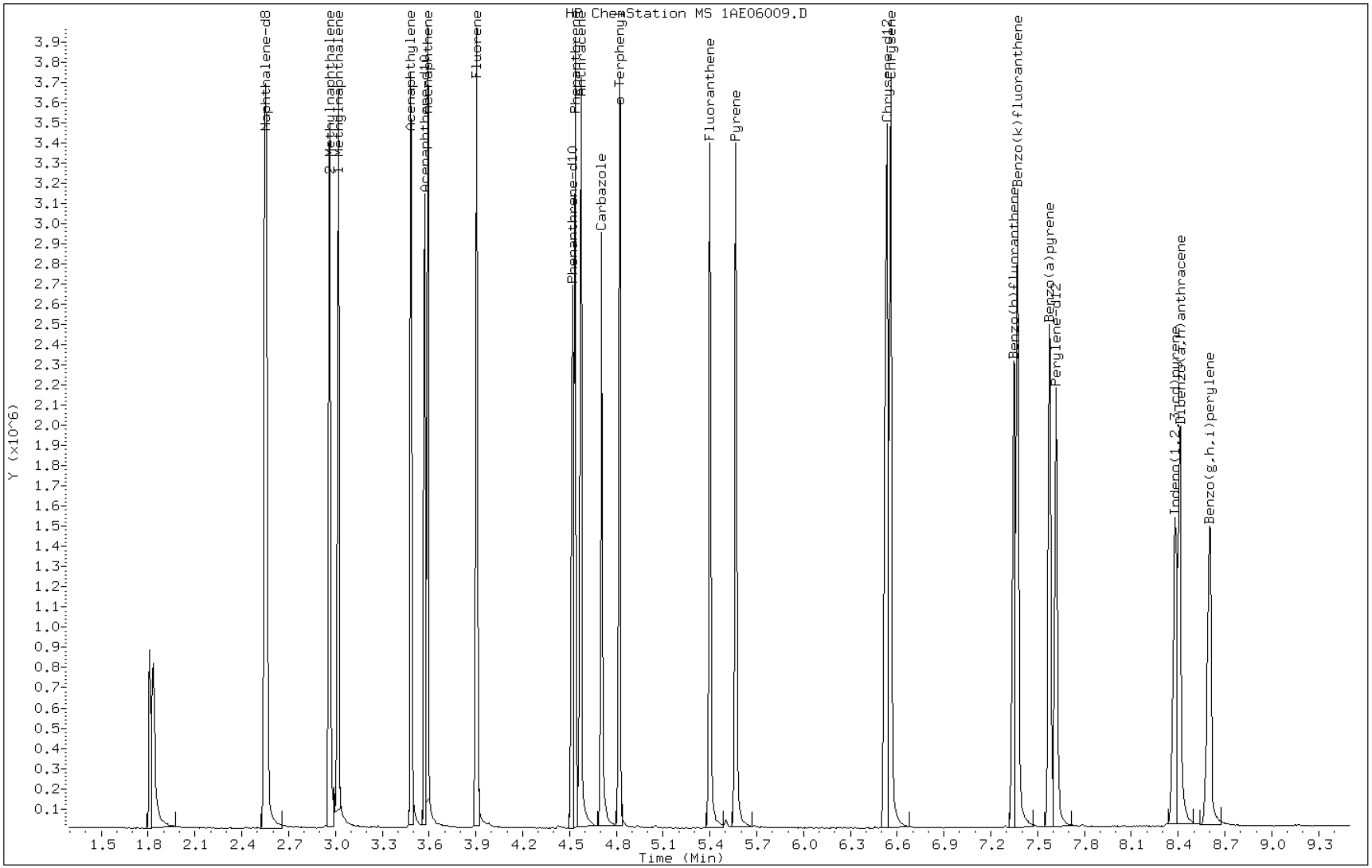
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE06009.D

Date: 06-MAY-2013 11:56

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1AE06009.D
Inj. Date and Time: 06-MAY-2013 11:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 12 Anthracene
CAS #: 120-12-7
Report Date: 05/06/2013

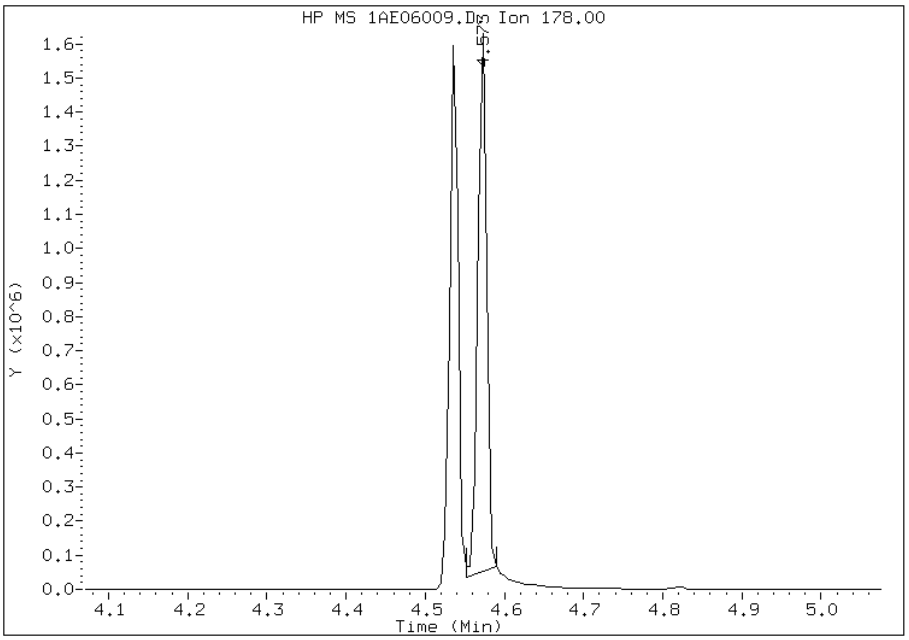
Processing Integration Results

RT: 4.57

Response: 1176629

Amount: 43

Conc: 43



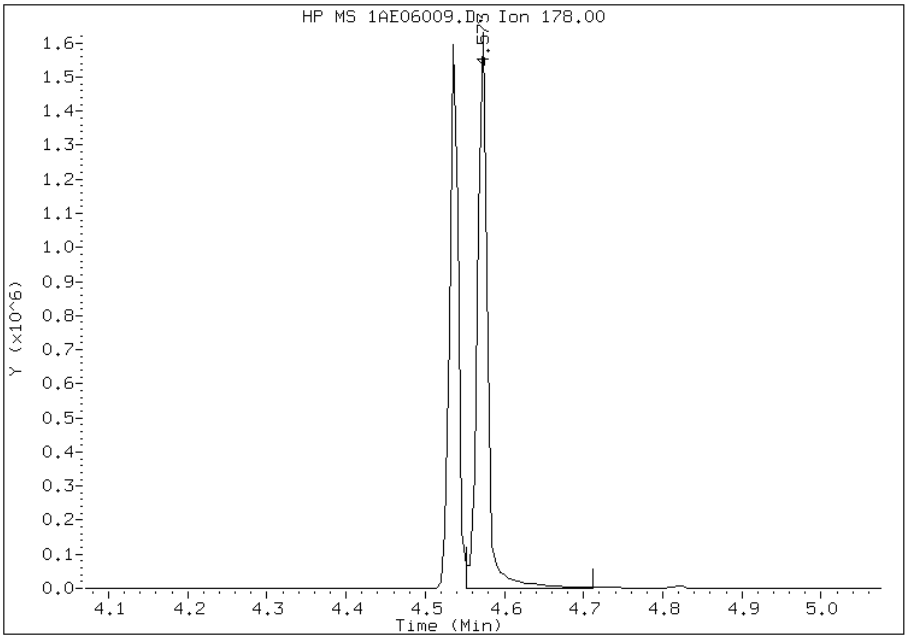
Manual Integration Results

RT: 4.57

Response: 1388133

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:59
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Lab Sample ID: ICV 660-137156/10 Calibration Date: 05/06/2013 12:11

Instrument ID: BSMA5973 Calib Start Date: 05/06/2013 10:40

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/06/2013 11:56

Lab File ID: 1AE06010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9420	0.9132	0.0000	19400	20000	-3.0	35.0
2-Methylnaphthalene	Ave	0.4787	0.5082	0.0000	21200	20000	6.2	35.0
1-Methylnaphthalene	Ave	0.5738	0.5870	0.0000	20500	20000	2.3	35.0
Acenaphthylene	Ave	1.880	1.818	0.0000	19300	20000	-3.3	35.0
Acenaphthene	Ave	1.079	0.9701	0.0000	18000	20000	-10.1	35.0
Fluorene	Ave	1.230	1.234	0.0000	20100	20000	0.3	35.0
Phenanthrene	Ave	0.9910	0.9305	0.0000	18800	20000	-6.1	35.0
Anthracene	Ave	1.056	1.004	0.0000	19000	20000	-4.9	35.0
Carbazole	Ave	0.9491	0.6514	0.0000	13700	20000	-31.4	35.0
Fluoranthene	Ave	1.140	1.161	0.0000	20400	20000	1.8	35.0
Pyrene	Ave	1.286	1.285	0.0000	20000	20000	-0.0	35.0
Benzo[a]anthracene	Ave	1.124	1.106	0.0000	19700	20000	-1.6	35.0
Chrysene	Ave	1.265	1.095	0.0000	17300	20000	-13.4	35.0
Benzo[b]fluoranthene	Ave	1.057	1.019	0.0000	19300	20000	-3.6	35.0
Benzo[k]fluoranthene	Ave	1.312	1.220	0.0000	18600	20000	-7.0	35.0
Benzo[a]pyrene	Ave	1.086	0.9512	0.0000	17500	20000	-12.4	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9096	0.9397	0.0000	20700	20000	3.3	35.0
Dibenz(a,h)anthracene	Ave	0.9324	1.016	0.0000	21800	20000	8.9	35.0
Benzo[g,h,i]perylene	Ave	0.9782	0.9691	0.0000	19800	20000	-0.9	35.0
o-Terphenyl	Ave	0.5725	0.5431	0.0000	19000	20000	-5.1	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06010.D
Lab Smp Id: ICV-1448440
Inj Date : 06-MAY-2013 12:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	2.545	2.544	(1.000)	1358957	40.0000	
*	6 Acenaphthene-d10	164	3.576	3.575	(1.000)	723354	40.0000	
*	10 Phenanthrene-d10	188	4.522	4.521	(1.000)	1301827	40.0000	
$	14 o-Terphenyl	230	4.821	4.820	(1.066)	353505	18.9730	18.9730
*	18 Chrysene-d12	240	6.536	6.535	(1.000)	1182962	40.0000	
*	23 Perylene-d12	264	7.620	7.630	(1.000)	1130799	40.0000	
	2 Naphthalene	128	2.556	2.555	(1.004)	620525	19.3900	19.3900
	3 2-Methylnaphthalene	141	2.962	2.961	(1.164)	345301	21.2310	21.2309
	4 1-Methylnaphthalene	142	3.015	3.014	(1.185)	398822	20.4584	20.4584
	5 Acenaphthylene	152	3.485	3.484	(0.975)	657440	19.3423	19.3423
	7 Acenaphthene	154	3.592	3.591	(1.004)	350866	17.9750	17.9750
	9 Fluorene	166	3.902	3.901	(1.091)	446292	20.0628	20.0627
	11 Phenanthrene	178	4.533	4.537	(1.002)	605646	18.7787	18.7787
	12 Anthracene	178	4.570	4.569	(1.011)	653401	19.0188	19.0188
	13 Carbazole	167	4.698	4.702	(1.039)	424026	13.7271	13.7271
	15 Fluoranthene	202	5.398	5.397	(1.194)	755565	20.3641	20.3641
	16 Pyrene	202	5.564	5.562	(0.851)	760119	19.9900	19.9900

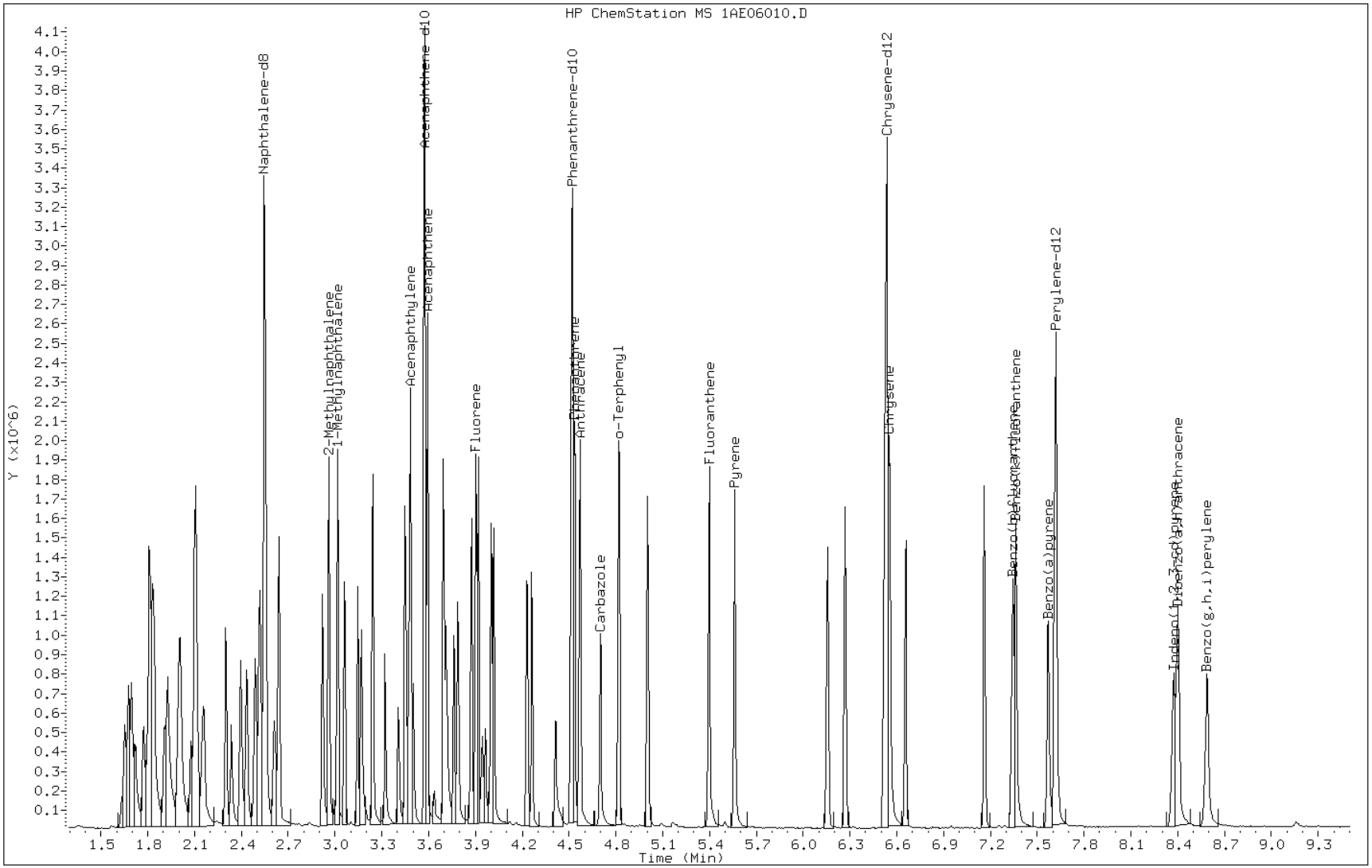
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/l)
17 Benzo(a)anthracene	228	6.525	6.524	(0.998)	654156	19.6760	19.6760
19 Chrysene	228	6.557	6.551	(1.003)	647722	17.3155	17.3155
20 Benzo(b)fluoranthene	252	7.343	7.347	(0.964)	576037	19.2726	19.2725
21 Benzo(k)fluoranthene	252	7.364	7.368	(0.966)	689550	18.5964	18.5963
22 Benzo(a)pyrene	252	7.572	7.576	(0.994)	537816	17.5209	17.5208
24 Indeno(1,2,3-cd)pyrene	276	8.374	8.388	(1.099)	531307	20.6612	20.6611
25 Dibenzo(a,h)anthracene	278	8.400	8.414	(1.102)	574250	21.7852	21.7851
26 Benzo(g,h,i)perylene	276	8.593	8.602	(1.128)	547940	19.8150	19.8150

Data File: 1AE06010.D

Date: 06-MAY-2013 12:11

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Lab Sample ID: CCVIS 660-137292/3 Calibration Date: 05/08/2013 14:31

Instrument ID: BSMA5973 Calib Start Date: 05/06/2013 10:40

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/06/2013 11:56

Lab File ID: 1AE08003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9420	0.9341	0.0000	2000	20.0	-0.8	20.0
2-Methylnaphthalene	Ave	0.4787	0.4888	0.0000	2000	20.0	2.1	20.0
1-Methylnaphthalene	Ave	0.5738	0.5693	0.0000	2000	20.0	-0.8	20.0
Acenaphthylene	Ave	1.880	1.944	0.0000	1000	20.0	3.5	20.0
Acenaphthene	Ave	1.079	0.9861	0.0000	2000	20.0	-8.6	20.0
Fluorene	Ave	1.230	1.206	0.0000	2000	20.0	-2.0	20.0
Phenanthrene	Ave	0.9910	0.9845	0.0000	500	20.0	-0.7	20.0
Anthracene	Ave	1.056	1.086	0.0000	200	20.0	2.9	20.0
Carbazole	Ave	0.9491	0.9155	0.0000	1000	20.0	-3.5	20.0
Fluoranthene	Ave	1.140	1.147	0.0000	500	20.0	0.6	20.0
Pyrene	Ave	1.286	1.382	0.0000	500	20.0	7.5	20.0
Benzo[a]anthracene	Ave	1.124	1.039	0.0000	200	20.0	-7.6	20.0
Chrysene	Ave	1.265	1.250	0.0000	200	20.0	-1.2	20.0
Benzo[b]fluoranthene	Ave	1.057	0.9768	0.0000	200	20.0	-7.6	20.0
Benzo[k]fluoranthene	Ave	1.312	1.446	0.0000	200	20.0	10.2	20.0
Benzo[a]pyrene	Ave	1.086	1.101	0.0000	200	20.0	1.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9096	0.8581	0.0000	200	20.0	-5.7	20.0
Dibenz(a,h)anthracene	Ave	0.9324	0.8704	0.0000	200	20.0	-6.7	20.0
Benzo[g,h,i]perylene	Ave	0.9782	0.9018	0.0000	500	20.0	-7.8	20.0
o-Terphenyl	Ave	0.5725	0.5696	0.0000	19.9	20.0	-0.5	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\1AE08003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 08-MAY-2013 14:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\a-bFASTPAHi-m.m
Meth Date : 08-May-2013 14:46 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	2.541	2.541	(1.000)	1248061	40.0000	
*	6 Acenaphthene-d10	164	3.572	3.572	(1.000)	640327	40.0000	
*	10 Phenanthrene-d10	188	4.523	4.523	(1.000)	1071156	40.0000	
$	14 o-Terphenyl	230	4.817	4.817	(1.065)	305046	20.0000	19.8978
*	18 Chrysene-d12	240	6.542	6.542	(1.000)	928886	40.0000	
*	23 Perylene-d12	264	7.632	7.632	(1.000)	792941	40.0000	
	2 Naphthalene	128	2.552	2.552	(1.004)	582897	20.0000	19.8326
	3 2-Methylnaphthalene	141	2.958	2.958	(1.164)	305050	20.0000	20.4226
	4 1-Methylnaphthalene	142	3.011	3.011	(1.185)	355255	20.0000	19.8428
	5 Acenaphthylene	152	3.481	3.481	(0.975)	622536	20.0000	20.6902
	7 Acenaphthene	154	3.588	3.588	(1.004)	315714	20.0000	18.2713
	9 Fluorene	166	3.903	3.903	(1.093)	386108	20.0000	19.6078
	11 Phenanthrene	178	4.534	4.534	(1.002)	527250	20.0000	19.8684
	12 Anthracene	178	4.571	4.571	(1.011)	581651	20.0000	20.5762
	13 Carbazole	167	4.705	4.705	(1.040)	490330	20.0000	19.2919
	15 Fluoranthene	202	5.399	5.399	(1.194)	614505	20.0000	20.1288
	16 Pyrene	202	5.565	5.565	(0.851)	641727	20.0000	21.4926
	17 Benzo(a)anthracene	228	6.526	6.526	(0.998)	482460	20.0000	18.4810
	19 Chrysene	228	6.558	6.558	(1.002)	580429	20.0000	19.7608
	20 Benzo(b)fluoranthene	252	7.349	7.349	(0.963)	387269	20.0000	18.4776
	21 Benzo(k)fluoranthene	252	7.370	7.370	(0.966)	573138	20.0000	22.0427
	22 Benzo(a)pyrene	252	7.579	7.579	(0.993)	436425	20.0000	20.2756
	24 Indeno(1,2,3-cd)pyrene	276	8.396	8.396	(1.100)	340200	20.0000	18.8663(M)
	25 Dibenzo(a,h)anthracene	278	8.418	8.418	(1.103)	345093	20.0000	18.6698(M)
	26 Benzo(g,h,i)perylene	276	8.610	8.610	(1.128)	357523	20.0000	18.4378(M)

QC Flag Legend

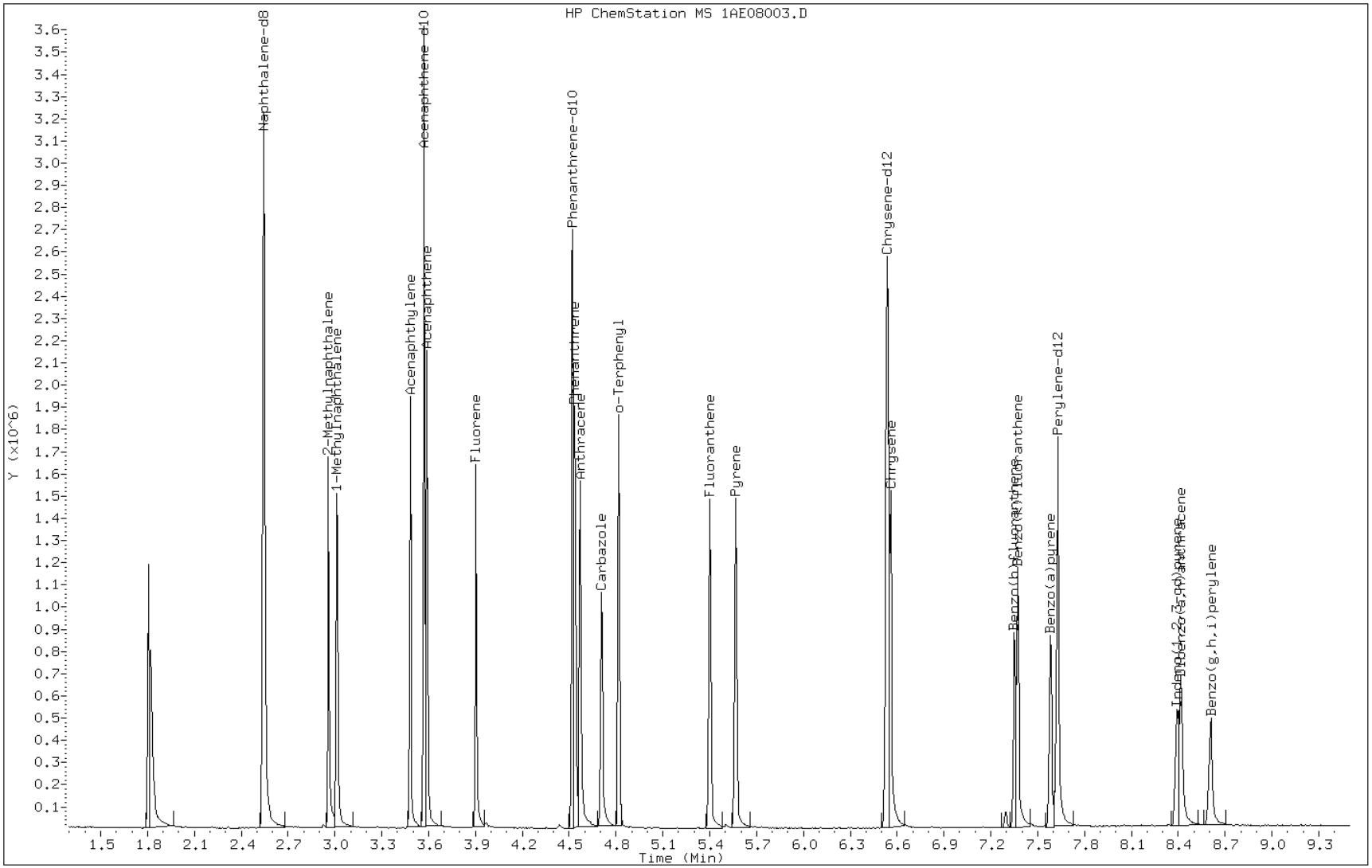
M - Compound response manually integrated.

Data File: 1AE08003.D

Date: 08-MAY-2013 14:31

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1AE08003.D
Inj. Date and Time: 08-MAY-2013 14:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

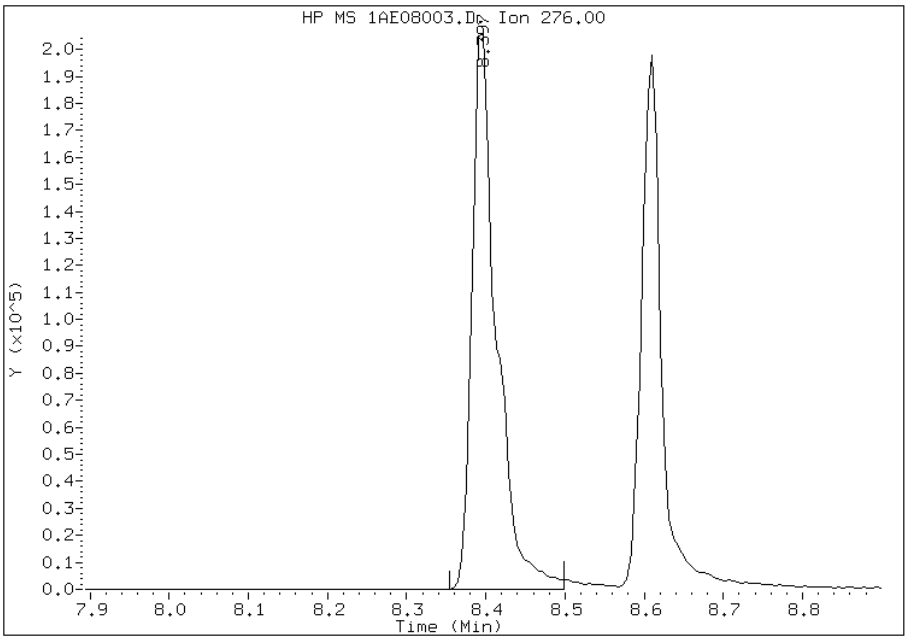
Processing Integration Results

RT: 8.40

Response: 441252

Amount: 24

Conc: 24



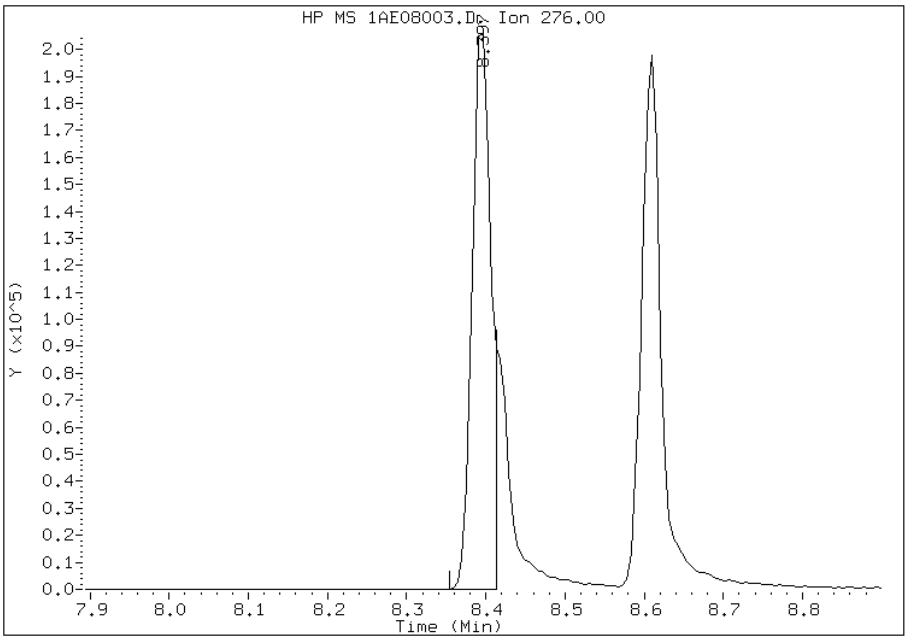
Manual Integration Results

RT: 8.40

Response: 340200

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 08-May-2013 14:47
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE08003.D
Inj. Date and Time: 08-MAY-2013 14:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/09/2013

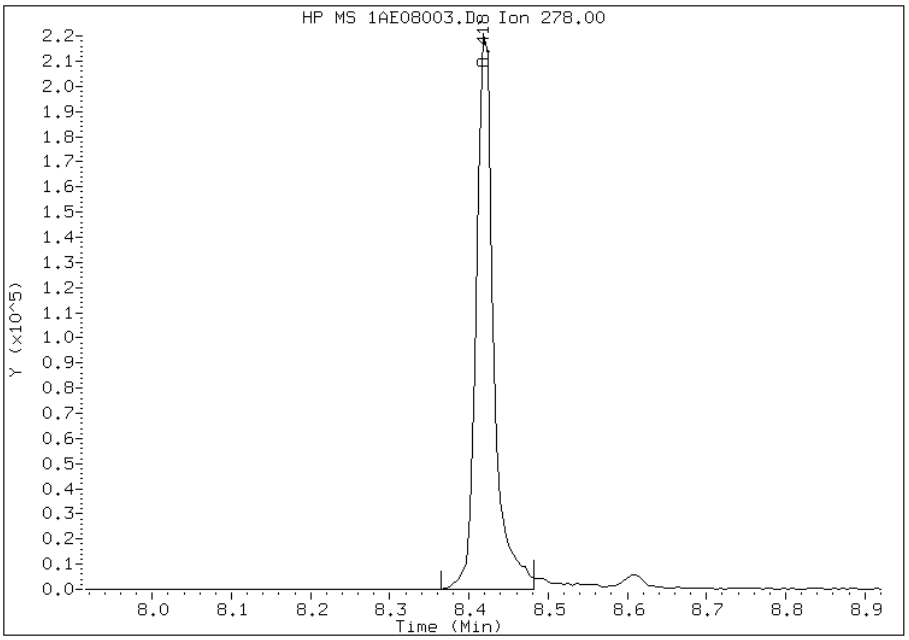
Processing Integration Results

RT: 8.42

Response: 335498

Amount: 18

Conc: 18



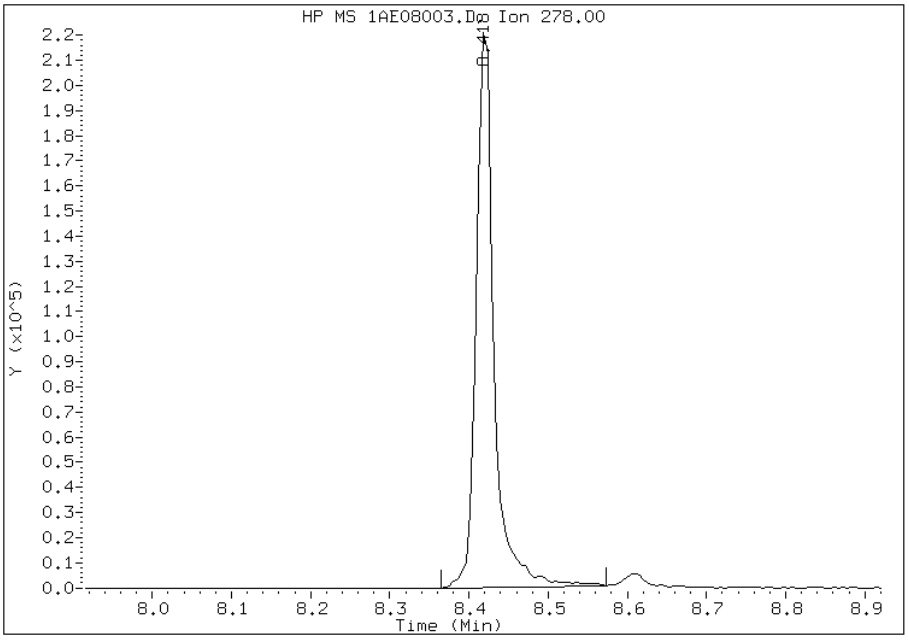
Manual Integration Results

RT: 8.42

Response: 345093

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 08-May-2013 14:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE08003.D
Inj. Date and Time: 08-MAY-2013 14:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

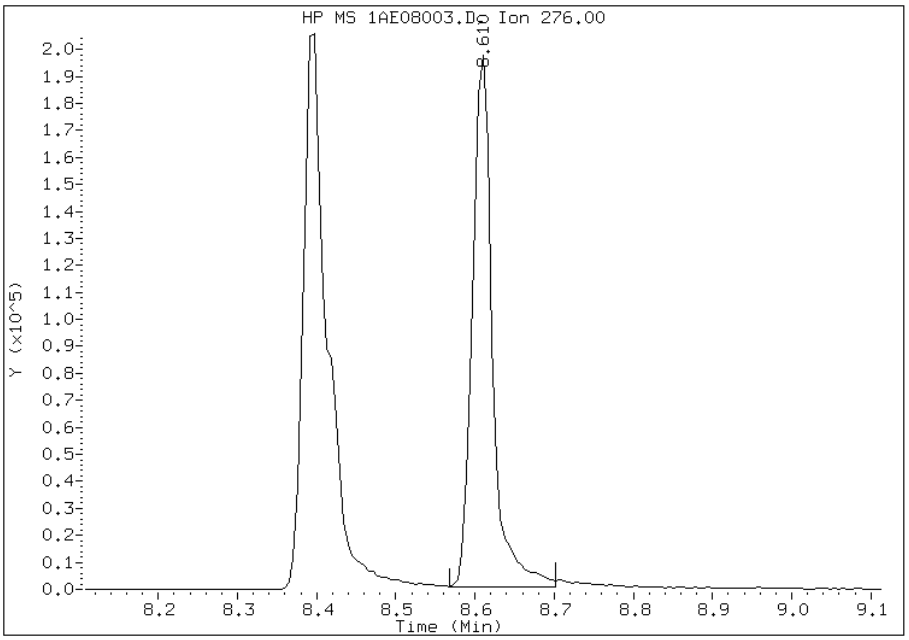
Processing Integration Results

RT: 8.61

Response: 343442

Amount: 18

Conc: 18



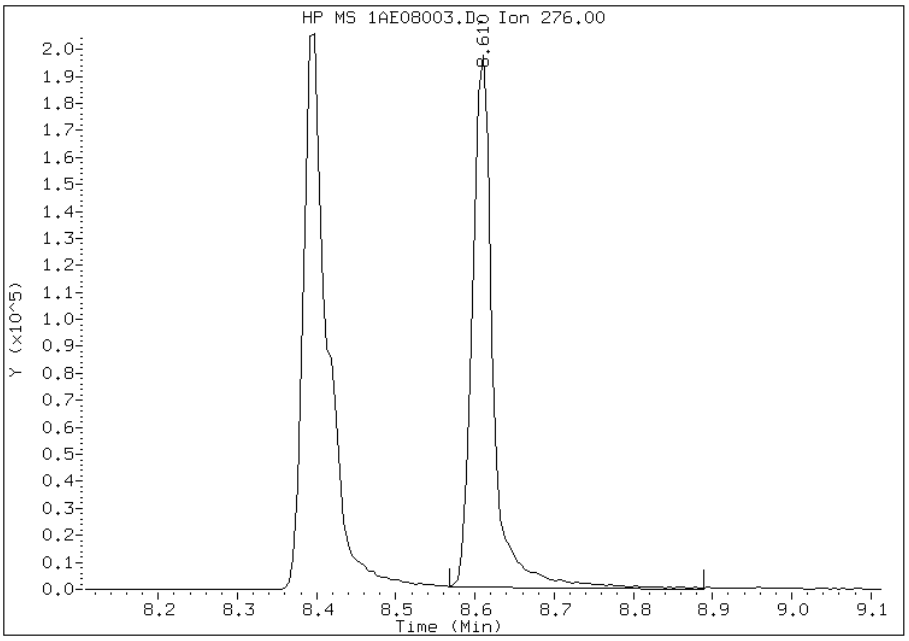
Manual Integration Results

RT: 8.61

Response: 357523

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 08-May-2013 14:47
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 26-APR-2013 09:50
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 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

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.935	4.963	-0.028	198	121536			50.00- 0.00	100.00
4.935	4.963	-0.028	51	38720			10.00- 80.00	31.86
4.935	4.963	-0.028	68	0	0.0	0.0	0.00- 2.00	0.00
4.935	4.963	-0.028	69	36384			0.00- 0.00	29.94
4.935	4.963	-0.028	70	323			0.00- 2.00	0.89
4.935	4.963	-0.028	127	46488			10.00- 80.00	38.25
4.935	4.963	-0.028	197	0	0.0	0.0	0.00- 2.00	0.00
4.935	4.963	-0.028	442	102376			50.00- 0.00	84.24
4.935	4.963	-0.028	199	6667			5.00- 9.00	5.49
4.935	4.963	-0.028	275	30992			10.00- 60.00	25.50
4.935	4.963	-0.028	365	3993			1.00- 0.00	3.29
4.935	4.963	-0.028	441	14043			0.01- 99.99	74.57
4.935	4.963	-0.028	443	18832			15.00- 24.00	18.39

Data File: 1AD26002.D

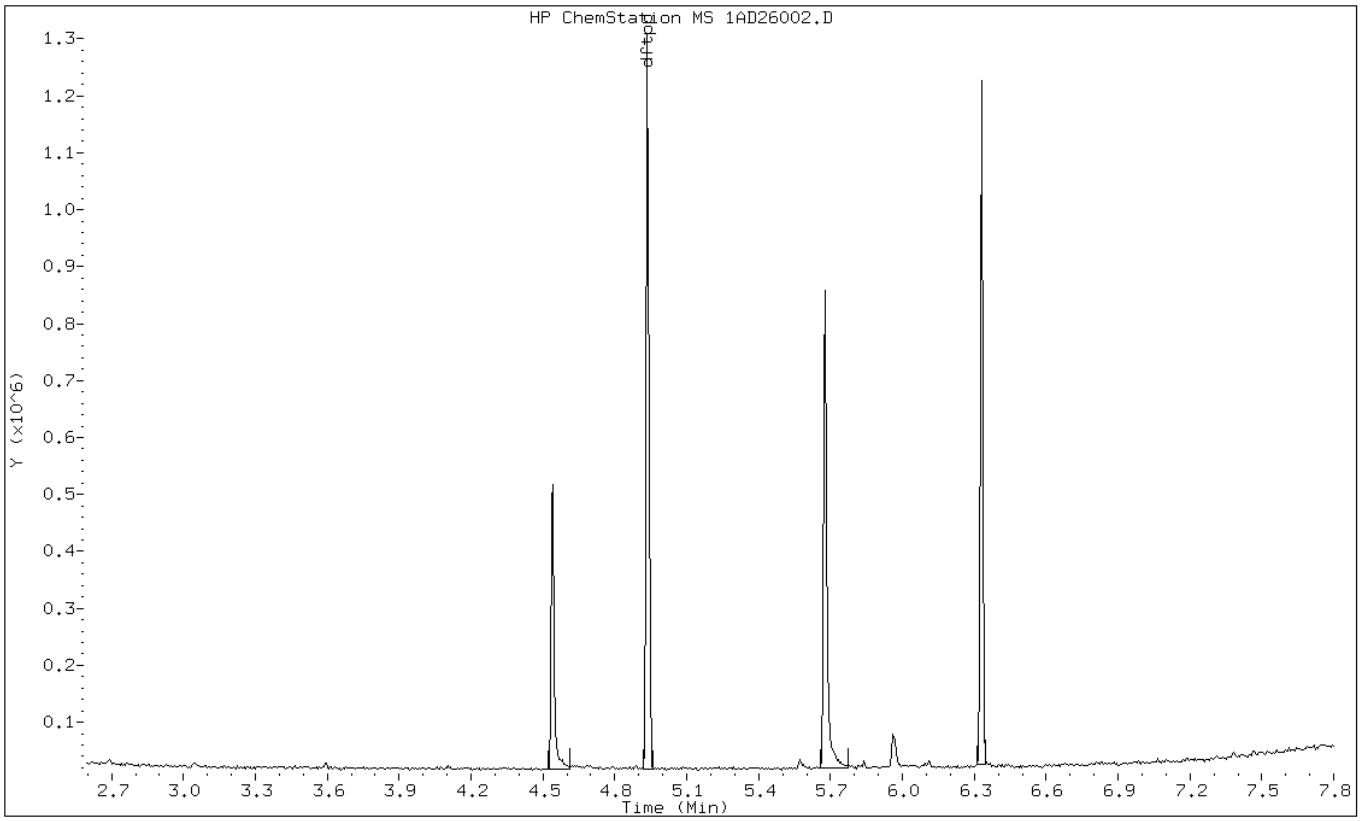
Date: 26-APR-2013 09:50

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



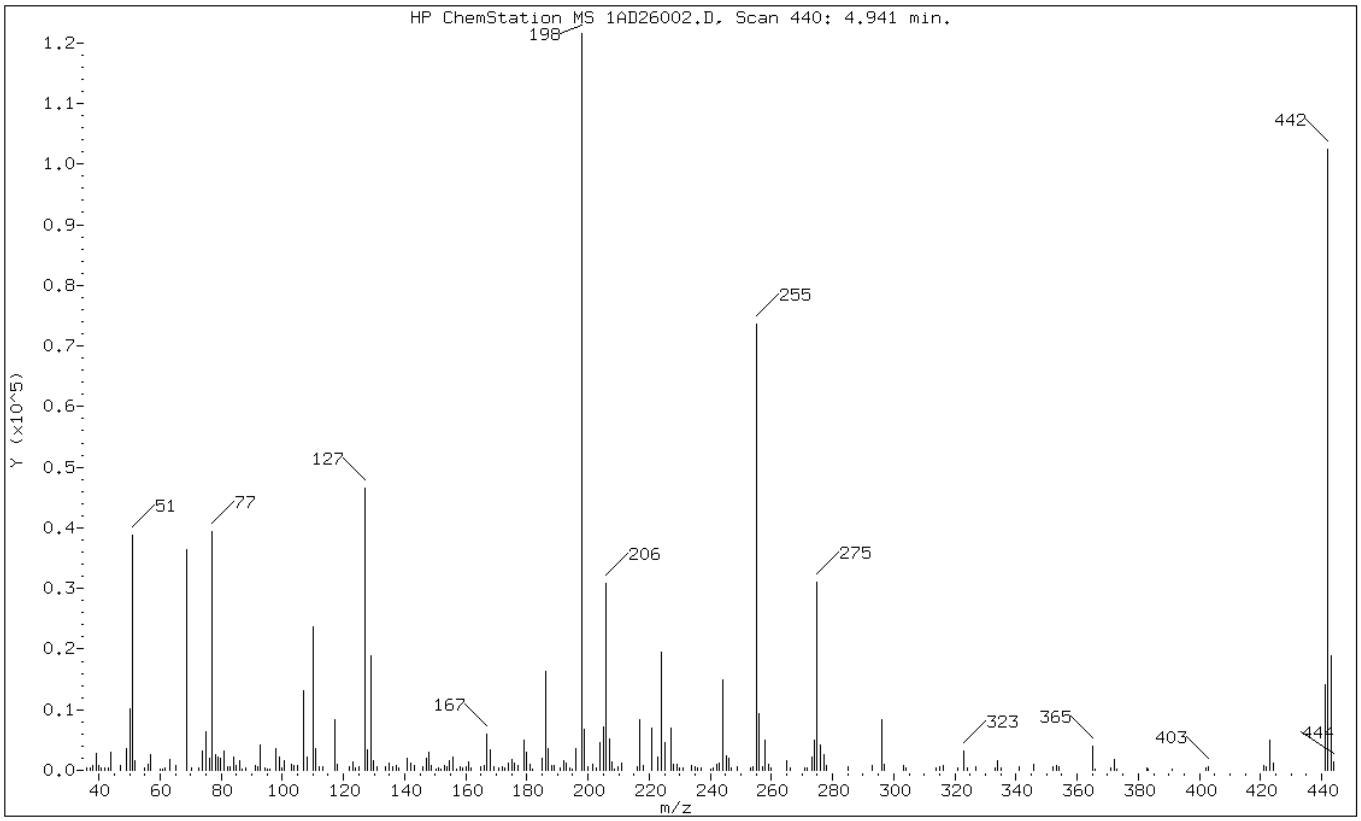
Data File: 1AD26002.D

Date: 26-APR-2013 09:50

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 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	31.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	29.94
70	Less than 2.00% of mass 69	0.27 (0.89)
127	10.00 - 80.00% of mass 198	38.25
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	84.24
199	5.00 - 9.00% of mass 198	5.49
275	10.00 - 60.00% of mass 198	25.50
365	Greater than 1.00% of mass 198	3.29
441	Present, but less than mass 443	11.55
443	15.00 - 24.00% of mass 442	15.49 (18.39)

Data File: 1AD26002.D

Date: 26-APR-2013 09:50

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613_IC.b\1AD26002.D
Spectrum: HP ChemStation MS 1AD26002.D, Scan 440: 4.941 min.
Location of Maximum: 197.90
Number of points: 218

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	318	109.90	23624	181.90	258	257.90	4917
37.10	304	110.90	3528	185.00	1943	258.90	978
38.00	772	112.00	696	186.00	16384	259.90	303
39.00	2851	113.10	557	187.00	3659	265.00	1578
40.10	716	117.00	8329	188.00	719	266.20	302
40.90	450	117.90	908	188.90	826	270.90	415
42.00	367	122.00	606	190.80	404	271.70	437
43.00	323	123.00	1311	192.00	1546	273.10	2160
44.00	3058	124.00	371	192.90	1214	274.00	5041
46.90	754	125.00	512	194.00	396	275.00	30992
49.00	3565	127.00	46488	194.80	255	275.90	4232
50.00	10138	128.00	3368	195.90	3544	277.00	2575
51.00	38720	128.90	18888	197.90	121536	278.00	834
51.90	1557	129.80	1654	198.90	6667	285.00	690
55.00	474	131.00	544	199.90	619	293.00	822
56.00	1032	133.90	503	201.70	1011	296.00	8395
57.00	2554	135.00	1277	202.90	396	297.00	904
60.00	257	136.00	571	204.00	4575	303.20	722
60.90	289	137.10	702	205.00	7152	303.90	319
61.80	317	138.00	427	206.00	30816	314.00	477
63.10	1724	141.00	2035	207.00	5196	314.90	676
65.00	759	142.00	1118	207.90	1339	316.10	769
68.90	36384	143.00	713	208.70	266	320.80	382
70.10	323	146.10	541	209.90	683	323.00	3132
72.80	315	147.00	1966	211.10	1168	324.00	468
74.00	3176	148.00	2955	216.00	640	327.00	657
75.00	6302	148.90	888	216.90	8402	333.00	481
76.10	1935	150.10	289	217.90	765	334.10	1644
77.00	39448	151.00	322	220.90	7020	335.00	459
78.00	2640	151.90	273	223.00	2251	340.90	509
79.00	2237	152.90	869	224.00	19528	345.90	899
79.90	2049	153.90	672	225.00	4617	351.90	634
80.90	3195	154.80	1546	227.00	6882	352.20	548
82.00	676	156.00	2256	227.90	931	353.10	702
82.90	597	156.90	256	229.00	1037	353.90	642
83.90	2102	158.10	527	229.90	339	365.00	3993
84.90	795	159.00	341	231.10	439	365.90	292
86.10	1590	160.00	680	234.00	698	371.00	314
86.80	277	161.00	1485	235.00	536	372.10	1782
87.90	476	161.90	375	236.00	404	372.80	257

91.10	819	164.80	641	237.10	489	382.80	327
92.10	653	166.00	856	240.00	276	383.30	252
92.90	4252	167.00	5928	241.00	479	391.00	277
94.20	435	168.00	3455	242.00	967	402.10	404
95.00	281	169.10	686	243.00	1175	403.00	649
95.90	273	170.90	352	244.00	14953	421.10	713
98.00	3544	172.00	525	245.10	2429	421.80	629
99.00	2270	172.80	444	246.00	1998	422.90	5030
99.80	420	173.90	1209	246.80	476	424.00	1147
100.80	1642	175.10	1874	248.90	576	441.00	14043
103.00	1034	176.00	1175	253.00	400	442.00	102376
103.90	828	177.00	876	253.90	504	443.00	18832
105.00	864	179.00	4909	255.00	73608	443.90	1450
107.00	13154	179.90	2911	256.00	9434		
108.00	2102	180.90	1012	257.00	624		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 06-MAY-2013 10:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 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

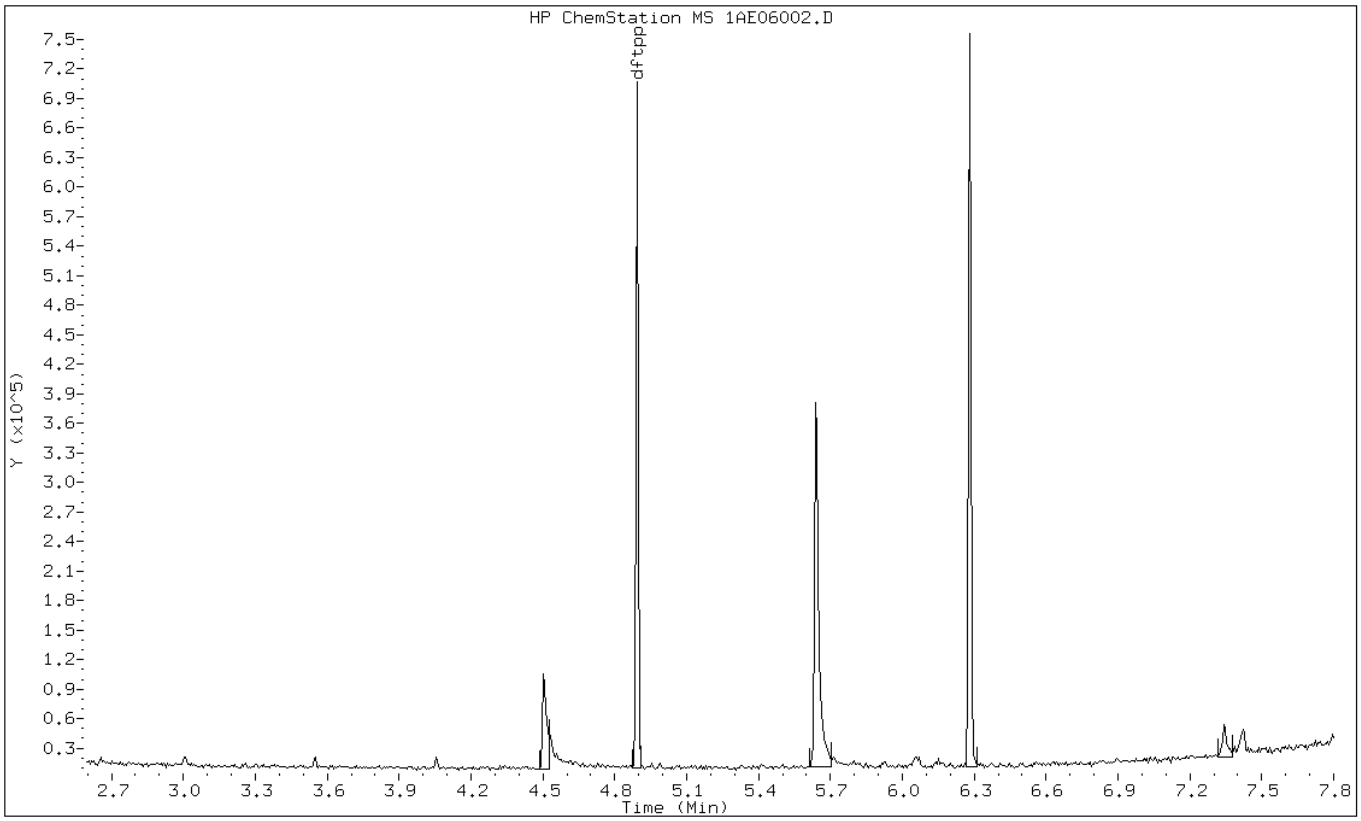
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.893	4.963	-0.070	198	57528			50.00- 0.00	100.00
4.893	4.963	-0.070	51	21778			10.00- 80.00	37.86
4.893	4.963	-0.070	68	150			0.00- 2.00	0.78
4.893	4.963	-0.070	69	19303			0.00- 0.00	33.55
4.893	4.963	-0.070	70	321			0.00- 2.00	1.66
4.893	4.963	-0.070	127	26701			10.00- 80.00	46.41
4.893	4.963	-0.070	197	0	0.0	0.0	0.00- 2.00	0.00
4.893	4.963	-0.070	442	50968			50.00- 0.00	88.60
4.893	4.963	-0.070	199	4201			5.00- 9.00	7.30
4.893	4.963	-0.070	275	14341			10.00- 60.00	24.93
4.893	4.963	-0.070	365	1641			1.00- 0.00	2.85
4.893	4.963	-0.070	441	7097			0.01- 99.99	75.79
4.893	4.963	-0.070	443	9364			15.00- 24.00	18.37

Data File: 1AE06002.D

Date: 06-MAY-2013 10:11

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC



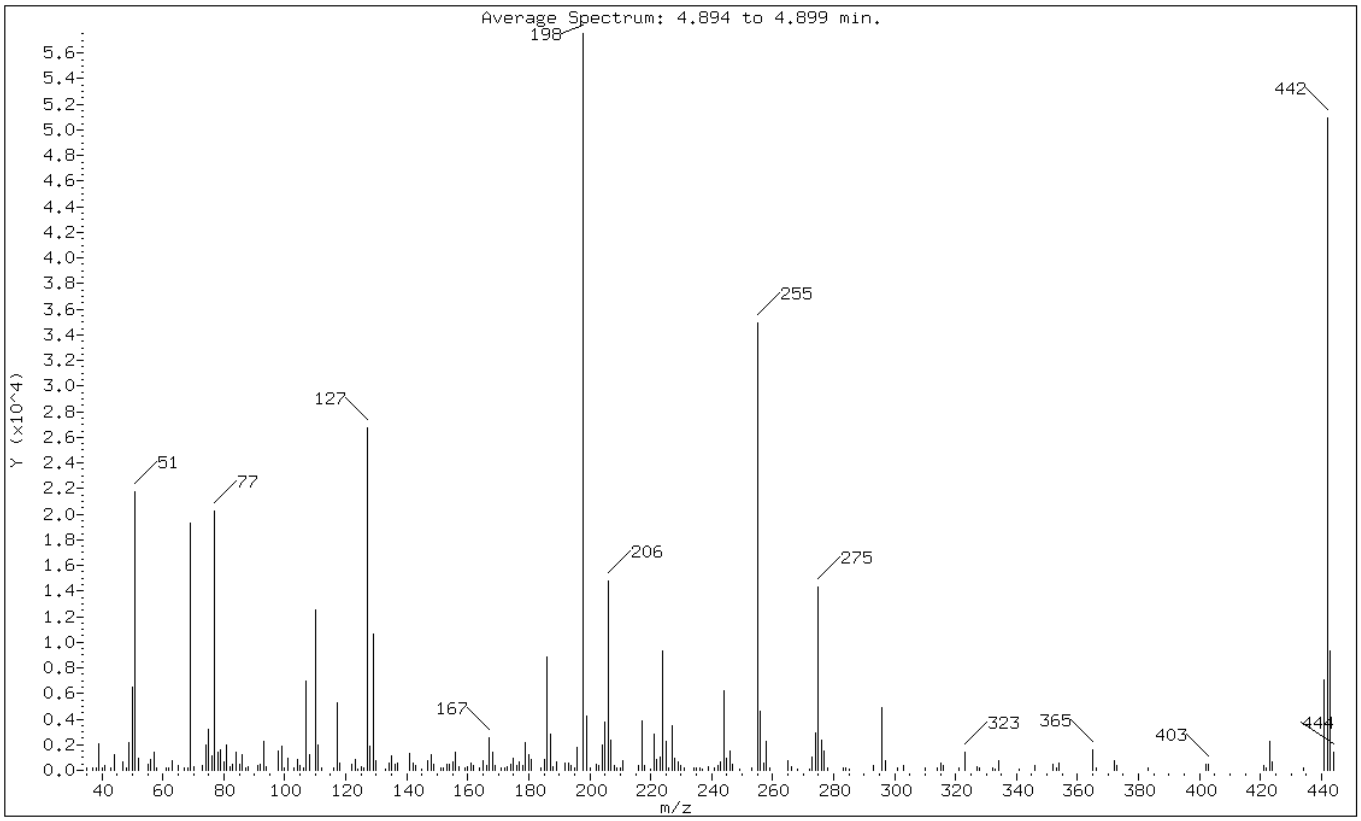
Data File: 1AE06002.D

Date: 06-MAY-2013 10:11

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 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	37.86
68	Less than 2.00% of mass 69	0.26 (0.78)
69	Mass 69 relative abundance	33.55
70	Less than 2.00% of mass 69	0.56 (1.66)
127	10.00 - 80.00% of mass 198	46.41
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	88.60
199	5.00 - 9.00% of mass 198	7.30
275	10.00 - 60.00% of mass 198	24.93
365	Greater than 1.00% of mass 198	2.85
441	Present, but less than mass 443	12.34
443	15.00 - 24.00% of mass 442	16.28 (18.37)

Data File: 1AE06002.D

Date: 06-MAY-2013 10:11

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06002.D
Spectrum: Average Spectrum: 4.894 to 4.899 min.
Location of Maximum: 198.00
Number of points: 219

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	163	108.00	1239	181.00	851	256.00	4636
37.00	156	110.00	12507	184.00	149	257.00	523
38.00	198	111.00	1967	185.00	803	258.00	2260
39.00	2065	112.00	171	186.00	8887	259.00	189
40.00	227	116.00	201	187.00	2798	265.00	774
41.00	402	117.00	5309	188.00	238	266.00	253
43.00	157	118.00	581	189.00	658	268.00	138
44.00	1183	122.00	433	192.00	597	272.00	132
47.00	644	123.00	860	193.00	519	273.00	1005
48.00	173	124.00	130	194.00	402	274.00	2879
49.00	2203	125.00	327	195.00	179	275.00	14341
50.00	6482	126.00	144	196.00	1807	276.00	2336
51.00	21776	127.00	26696	198.00	57528	277.00	1475
52.00	935	128.00	1902	199.00	4201	278.00	147
55.00	483	129.00	10602	200.00	146	283.00	142
56.00	828	130.00	798	202.00	501	284.00	171
57.00	1410	133.00	131	203.00	342	285.00	130
58.00	157	134.00	589	204.00	1990	293.00	374
61.00	226	135.00	1111	205.00	3759	296.00	4873
62.00	219	136.00	509	206.00	14757	297.00	798
63.00	710	137.00	544	207.00	2319	301.00	159
65.00	363	141.00	1360	208.00	334	303.00	401
67.00	154	142.00	519	209.00	187	310.00	191
68.00	150	143.00	362	210.00	163	314.00	181
69.00	19296	145.00	132	211.00	732	315.00	566
70.00	321	147.00	775	216.00	411	316.00	405
73.00	350	148.00	1196	217.00	3840	321.00	172
74.00	1963	149.00	428	218.00	401	323.00	1437
75.00	3170	151.00	180	220.00	129	327.00	272
76.00	1099	152.00	156	221.00	2850	328.00	187
77.00	20232	153.00	492	222.00	804	332.00	163
78.00	1369	154.00	514	223.00	1004	333.00	133
79.00	1624	155.00	638	224.00	9288	334.00	783
80.00	676	156.00	1388	225.00	2223	341.00	125
81.00	1934	157.00	302	226.00	171	346.00	355
82.00	244	159.00	191	227.00	3480	352.00	462
83.00	509	160.00	265	228.00	907	353.00	202
84.00	1383	161.00	547	229.00	688	354.00	531
85.00	492	162.00	334	230.00	358	365.00	1641
86.00	1181	164.00	196	231.00	145	366.00	175

87.00	202	165.00	726	234.00	224	372.00	775
88.00	293	166.00	399	235.00	156	373.00	397
91.00	342	167.00	2575	236.00	170	383.00	218
92.00	461	168.00	1370	237.00	137	402.00	427
93.00	2305	169.00	331	239.00	280	403.00	432
94.00	254	171.00	162	241.00	228	421.00	371
98.00	1468	172.00	183	242.00	360	422.00	142
99.00	1901	173.00	275	243.00	647	423.00	2274
100.00	194	174.00	453	244.00	6260	424.00	676
101.00	952	175.00	907	245.00	931	434.00	158
103.00	216	176.00	340	246.00	1492	441.00	7097
104.00	886	177.00	695	247.00	478	442.00	50968
105.00	404	178.00	416	249.00	129	443.00	9364
106.00	232	179.00	2194	253.00	142	444.00	1393
107.00	6935	180.00	1266	255.00	34928		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\1AE08002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 08-MAY-2013 14:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 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

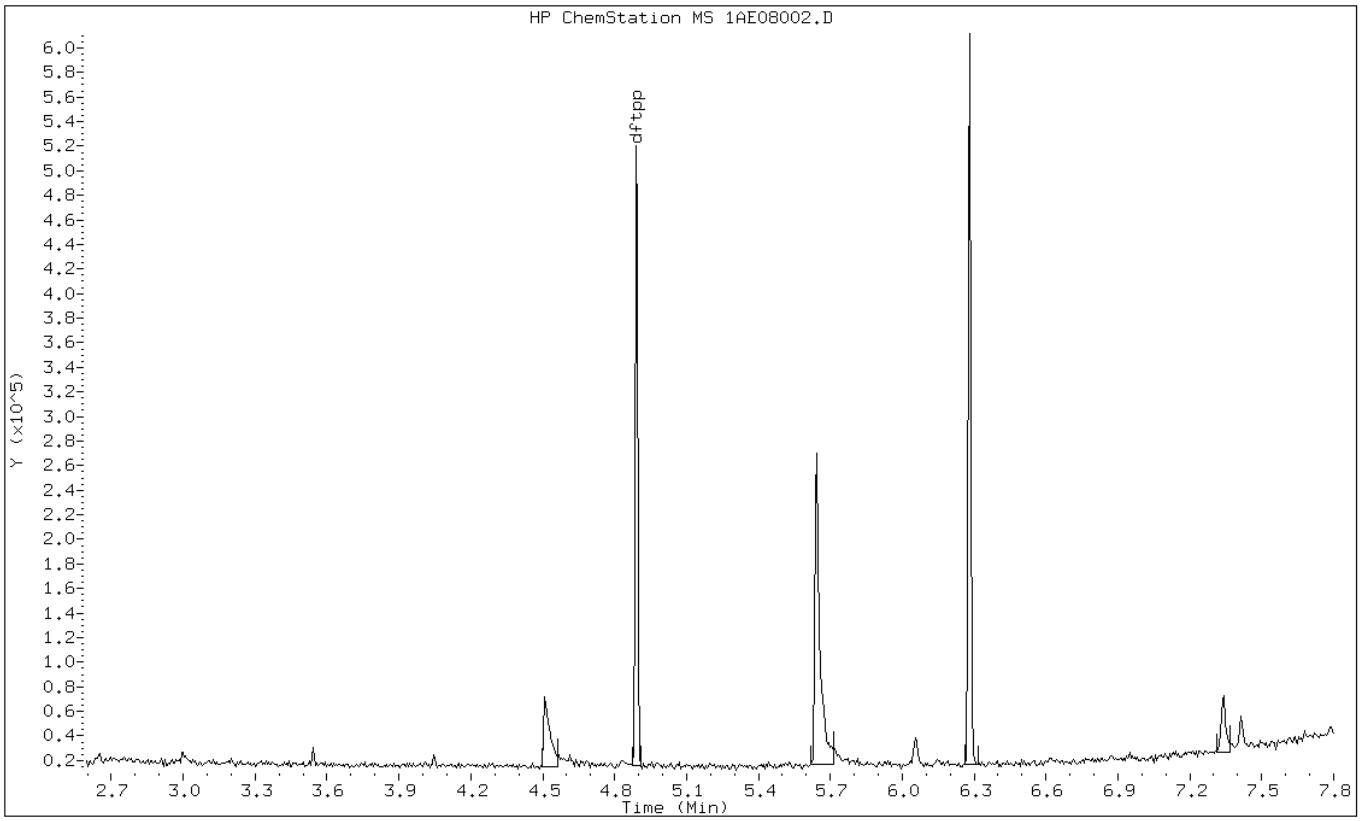
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.888	4.963	-0.075	198	58192			50.00- 0.00	100.00
4.888	4.963	-0.075	51	31352			10.00- 80.00	53.88
4.888	4.963	-0.075	68	0	0.0	0.0	0.00- 2.00	0.00
4.888	4.963	-0.075	69	25728			0.00- 0.00	44.21
4.888	4.963	-0.075	70	291			0.00- 2.00	1.13
4.888	4.963	-0.075	127	28824			10.00- 80.00	49.53
4.888	4.963	-0.075	197	0	0.0	0.0	0.00- 2.00	0.00
4.888	4.963	-0.075	442	29872			50.00- 0.00	51.33
4.888	4.963	-0.075	199	4880			5.00- 9.00	8.39
4.888	4.963	-0.075	275	13596			10.00- 60.00	23.36
4.888	4.963	-0.075	365	1165			1.00- 0.00	2.00
4.888	4.963	-0.075	441	4072			0.01- 99.99	64.55
4.888	4.963	-0.075	443	6308			15.00- 24.00	21.12

Data File: 1AE08002.D

Date: 08-MAY-2013 14:11

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC



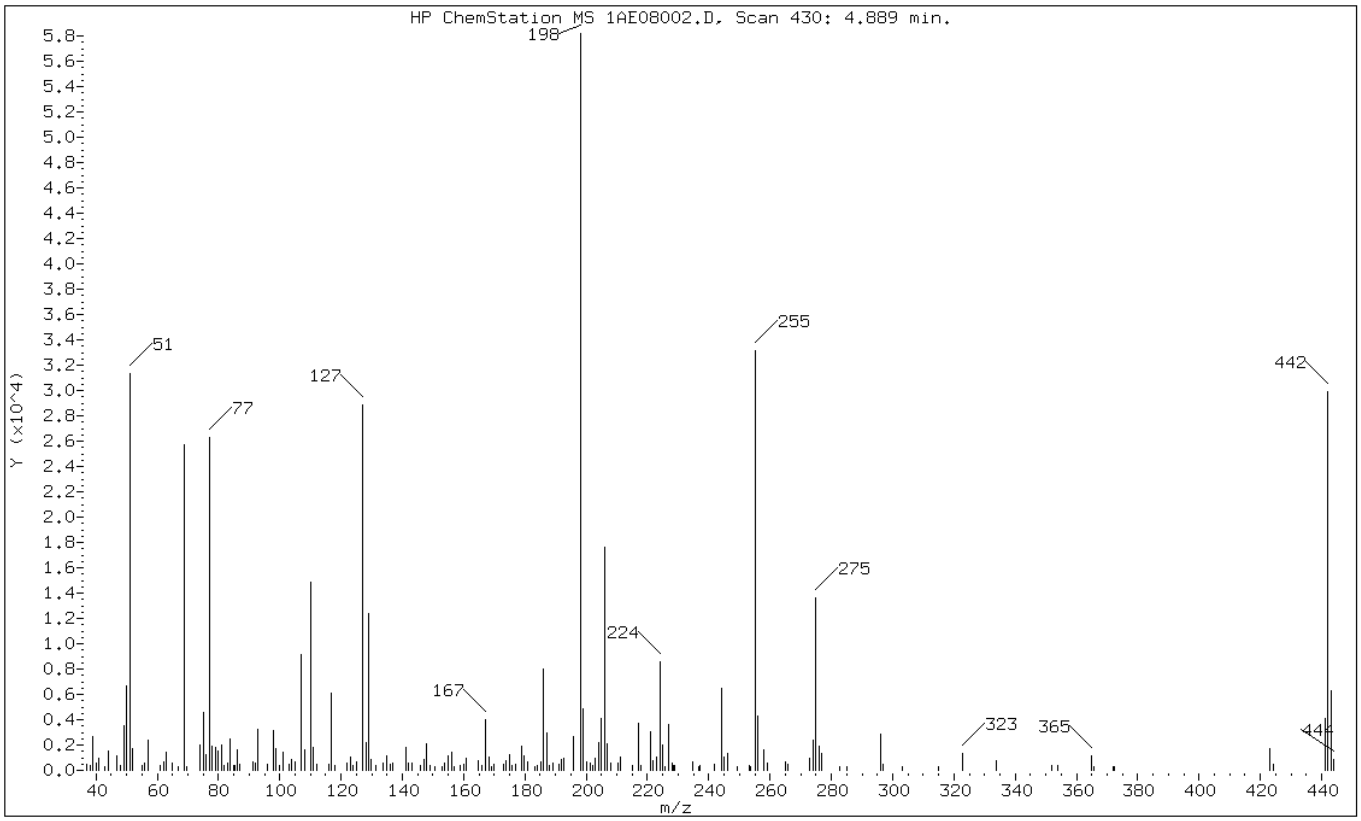
Data File: 1AE08002.D

Date: 08-MAY-2013 14:11

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	53.88
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	44.21
70	Less than 2.00% of mass 69	0.50 (1.13)
127	10.00 - 80.00% of mass 198	49.53
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	51.33
199	5.00 - 9.00% of mass 198	8.39
275	10.00 - 60.00% of mass 198	23.36
365	Greater than 1.00% of mass 198	2.00
441	Present, but less than mass 443	7.00
443	15.00 - 24.00% of mass 442	10.84 (21.12)

Data File: 1AE08002.D

Date: 08-MAY-2013 14:11

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\1AE08002.D
Spectrum: HP ChemStation MS 1AE08002.D, Scan 430: 4.889 min.
Location of Maximum: 198.00
Number of points: 179

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	469	101.00	1454	169.20	327	228.50	376
38.10	366	102.90	473	170.00	463	228.70	392
39.10	2672	104.00	900	172.90	445	234.90	681
40.10	599	104.90	682	173.90	756	236.90	291
41.10	938	107.00	9150	174.80	1282	237.30	362
43.00	300	108.00	1573	175.80	354	242.00	468
43.90	1483	110.00	14897	176.80	430	244.00	6507
47.00	1121	111.00	1763	178.90	1871	244.90	1025
47.90	427	112.10	487	179.90	1172	246.00	1325
49.00	3496	116.10	445	180.90	671	249.10	332
50.00	6643	117.00	6090	183.20	287	253.20	354
51.10	31352	117.90	419	184.10	353	253.80	324
52.10	1730	121.80	547	185.10	708	255.00	33120
55.00	404	123.00	1049	186.00	7970	256.00	4311
55.90	534	124.00	372	187.00	2952	258.00	1620
57.00	2408	125.00	639	188.10	335	259.00	585
60.90	368	127.00	28824	189.00	573	264.90	626
62.10	713	128.10	2219	191.00	442	266.00	431
63.00	1439	128.90	12348	192.00	844	273.00	917
65.00	536	129.90	870	192.80	979	274.00	2397
67.00	330	131.20	351	195.90	2625	275.00	13596
68.90	25728	133.90	573	198.00	58192	276.10	1904
69.80	291	134.90	1159	199.00	4880	277.00	1352
74.00	2042	135.90	465	200.10	672	282.90	326
75.00	4543	137.00	542	201.20	603	285.20	283
75.90	1201	141.00	1762	202.00	408	296.00	2857
77.00	26296	142.00	586	203.00	967	296.90	501
78.00	1922	143.10	599	204.00	2209	303.20	304
79.10	1776	146.00	355	205.00	4104	315.10	294
79.90	1489	146.90	844	206.00	17592	323.00	1315
81.00	2047	147.90	2120	207.00	2128	334.00	803
81.90	422	149.00	370	208.10	560	351.80	376
83.10	608	150.70	303	210.30	569	352.00	414
83.90	2507	152.80	326	211.10	1034	353.90	422
84.90	415	153.90	565	214.90	405	365.00	1165
85.20	391	155.10	1166	217.00	3736	365.80	312
86.00	1579	156.20	1450	217.90	413	371.80	331
87.10	469	157.10	318	221.00	3017	372.20	277
91.10	648	158.90	363	221.70	778	423.00	1684
92.10	593	159.90	487	222.80	1045	424.10	429

93.00	3271	161.00	923	224.00	8553	441.10	4072
95.90	443	164.90	745	225.00	1966	442.00	29872
98.00	3145	165.90	394	225.90	292	443.10	6308
98.90	1688	167.00	4030	227.00	3666	443.90	850
99.80	391	168.20	1020	227.90	549		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: | Lab Sample ID: MB 660-137098/1-A

Matrix: Solid | Lab File ID: 1AE06011.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 14.98(g) | Date Analyzed: 05/06/2013 13:22

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.: 137156 | 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	73		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06011.D
Lab Smp Id: mb 660-137098/1-a
Inj Date : 06-MAY-2013 13:22
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-137098/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 11 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	14.980	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

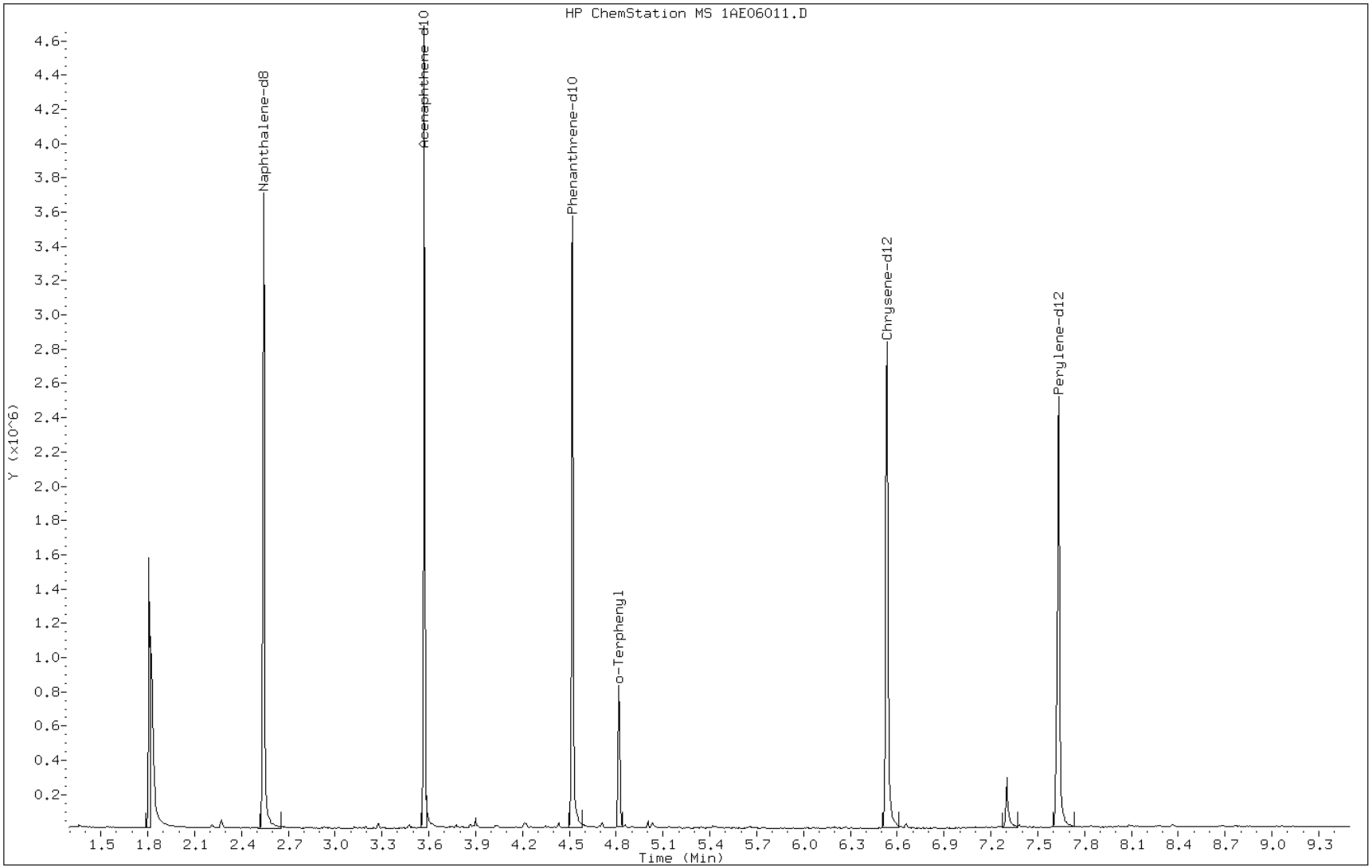
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.540	2.544	(1.000)	1538780	40.0000	
* 6 Acenaphthene-d10	164	3.572	3.575	(1.000)	786944	40.0000	
* 10 Phenanthrene-d10	188	4.522	4.521	(1.000)	1282446	40.0000	
$ 14 o-Terphenyl	230	4.816	4.820	(1.065)	134116	7.30694	487.7798
* 18 Chrysene-d12	240	6.536	6.535	(1.000)	1227870	40.0000	
* 23 Perylene-d12	264	7.637	7.630	(1.000)	1164843	40.0000	

Data File: 1AE06011.D

Date: 06-MAY-2013 13:22

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-137098/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: | Lab Sample ID: MB 660-137196/1-A

Matrix: Water | Lab File ID: 1AE08005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/07/2013 14:43

Sample wt/vol: 1000(mL) | Date Analyzed: 05/08/2013 15:16

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.: 137292 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.0	U	2.0	0.50
208-96-8	Acenaphthylene	1.0	U	1.0	0.25
120-12-7	Anthracene	0.20	U	0.20	0.076
56-55-3	Benzo[a]anthracene	0.20	U	0.20	0.050
50-32-8	Benzo[a]pyrene	0.20	U	0.20	0.057
205-99-2	Benzo[b]fluoranthene	0.20	U	0.20	0.050
191-24-2	Benzo[g,h,i]perylene	0.50	U	0.50	0.10
207-08-9	Benzo[k]fluoranthene	0.20	U	0.20	0.057
218-01-9	Chrysene	0.20	U	0.20	0.069
53-70-3	Dibenz(a,h)anthracene	0.20	U	0.20	0.050
206-44-0	Fluoranthene	0.50	U	0.50	0.054
86-73-7	Fluorene	2.0	U	2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050
90-12-0	1-Methylnaphthalene	2.0	U	2.0	0.50
91-57-6	2-Methylnaphthalene	2.0	U	2.0	0.50
91-20-3	Naphthalene	2.0	U	2.0	0.25
85-01-8	Phenanthrene	0.50	U	0.50	0.20
129-00-0	Pyrene	0.50	U	0.50	0.089

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\1A050813.b\1AE08005.D
Lab Smp Id: mb 660-137196/1-a
Inj Date : 08-MAY-2013 15:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-137196/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\a-bFASTPAHi-m.m
Meth Date : 08-May-2013 14:46 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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/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

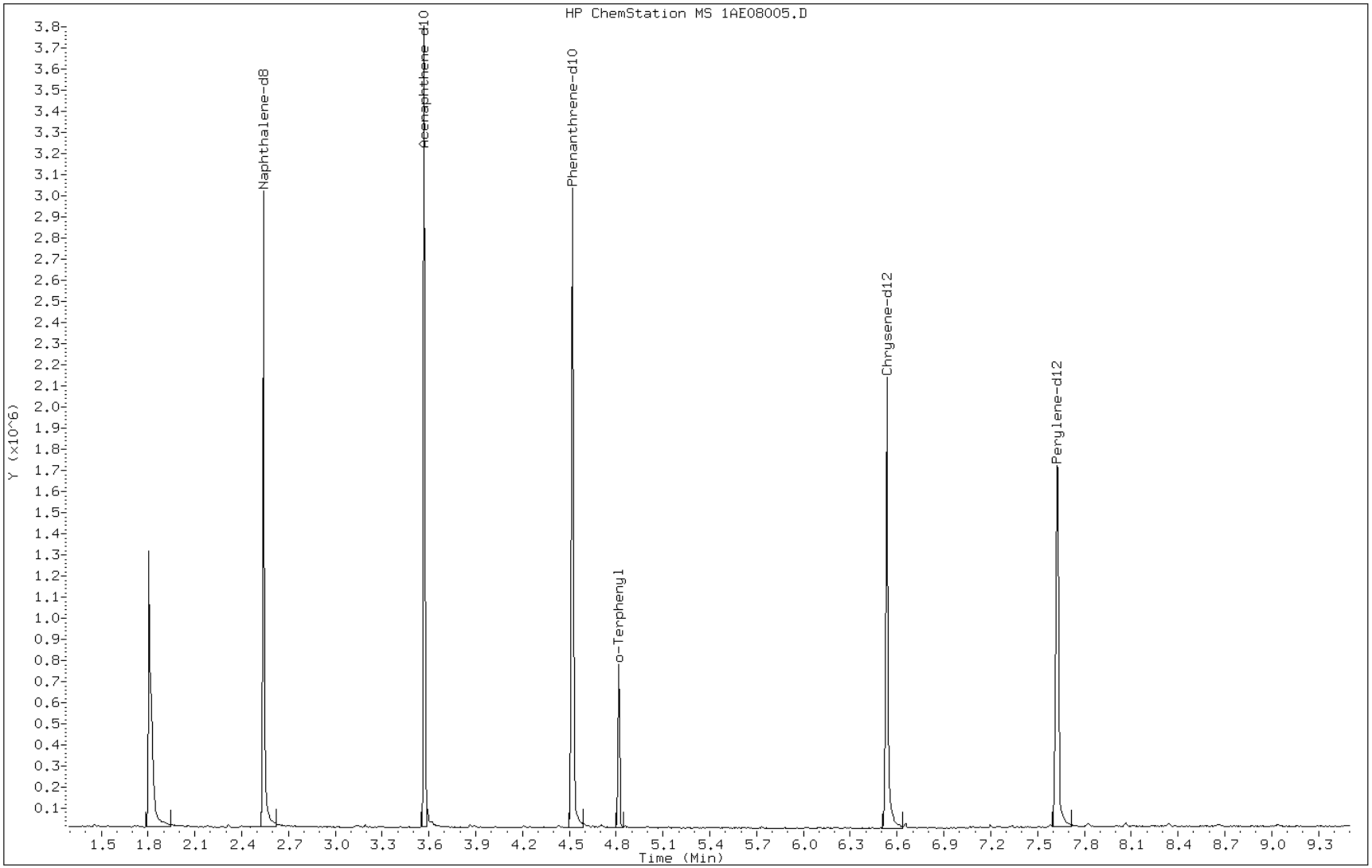
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.538	2.541	(1.000)	1148821	40.0000	
* 6 Acenaphthene-d10	164	3.569	3.572	(1.000)	603433	40.0000	
* 10 Phenanthrene-d10	188	4.520	4.523	(1.000)	1025441	40.0000	
$ 14 o-Terphenyl	230	4.814	4.817	(1.065)	118756	8.09169	8.0916
* 18 Chrysene-d12	240	6.534	6.542	(1.000)	931187	40.0000	
* 23 Perylene-d12	264	7.629	7.632	(1.000)	825458	40.0000	

Data File: 1AE08005.D

Date: 08-MAY-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-137196/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: | Lab Sample ID: LCS 660-137098/2-A

Matrix: Solid | Lab File ID: 1AE06012.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 14.95(g) | Date Analyzed: 05/06/2013 13:37

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.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	456		100	20
208-96-8	Acenaphthylene	481		40	5.0
120-12-7	Anthracene	510		8.4	4.2
56-55-3	Benzo[a]anthracene	518		8.0	3.9
50-32-8	Benzo[a]pyrene	456		10	5.2
205-99-2	Benzo[b]fluoranthene	440		12	6.1
191-24-2	Benzo[g,h,i]perylene	536		20	4.4
207-08-9	Benzo[k]fluoranthene	447		8.0	3.6
218-01-9	Chrysene	449		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	538		20	4.1
206-44-0	Fluoranthene	532		20	4.0
86-73-7	Fluorene	498		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	505		20	7.1
90-12-0	1-Methylnaphthalene	520		40	4.4
91-57-6	2-Methylnaphthalene	507		40	7.1
91-20-3	Naphthalene	455		40	4.4
85-01-8	Phenanthrene	492		8.0	3.9
129-00-0	Pyrene	492		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06012.D
Lab Smp Id: lcs 660-137098/2-a
Inj Date : 06-MAY-2013 13:37
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-137098/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 12 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	14.950	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	2.543	2.544	(1.000)	1401742	40.0000	
* 6	Acenaphthene-d10	164	3.574	3.575	(1.000)	753641	40.0000	
* 10	Phenanthrene-d10	188	4.520	4.521	(1.000)	1235718	40.0000	
$ 14	o-Terphenyl	230	4.819	4.820	(1.066)	129249	7.30806	488.8333
* 18	Chrysene-d12	240	6.534	6.535	(1.000)	1176598	40.0000	
* 23	Perylene-d12	264	7.624	7.630	(1.000)	1076647	40.0000	
2	Naphthalene	128	2.554	2.555	(1.004)	224609	6.80430	455.1372
3	2-Methylnaphthalene	141	2.960	2.961	(1.164)	127184	7.58127	507.1081
4	1-Methylnaphthalene	142	3.013	3.014	(1.185)	156303	7.77318	519.9448
5	Acenaphthylene	152	3.483	3.484	(0.975)	254491	7.18641	480.6961
7	Acenaphthene	154	3.590	3.591	(1.004)	138497	6.81012	455.5262
9	Fluorene	166	3.900	3.901	(1.091)	172450	7.44083	497.7146
11	Phenanthrene	178	4.530	4.537	(1.002)	225003	7.34970	491.6185
12	Anthracene	178	4.568	4.569	(1.011)	248531	7.62111	509.7729

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.701	4.702	(1.040)	219248	7.47752	500.1683
15 Fluoranthene	202	5.396	5.397	(1.194)	279954	7.94903	531.7078
16 Pyrene	202	5.562	5.562	(0.851)	277980	7.35001	491.6396
17 Benzo(a)anthracene	228	6.523	6.524	(0.998)	256293	7.75061	518.4353
19 Chrysene	228	6.550	6.551	(1.002)	249943	6.71786	449.3555
20 Benzo(b)fluoranthene	252	7.340	7.347	(0.963)	187036	6.57245	439.6285
21 Benzo(k)fluoranthene	252	7.362	7.368	(0.966)	235894	6.68178	446.9415(M)
22 Benzo(a)pyrene	252	7.570	7.576	(0.993)	199298	6.81925	456.1370
24 Indeno(1,2,3-cd)pyrene	276	8.371	8.388	(1.098)	184757	7.54609	504.7554(M)
25 Dibenzo(a,h)anthracene	278	8.398	8.414	(1.102)	201732	8.03798	537.6576(M)
26 Benzo(g,h,i)perylene	276	8.585	8.602	(1.126)	211117	8.01857	536.3590(M)

QC Flag Legend

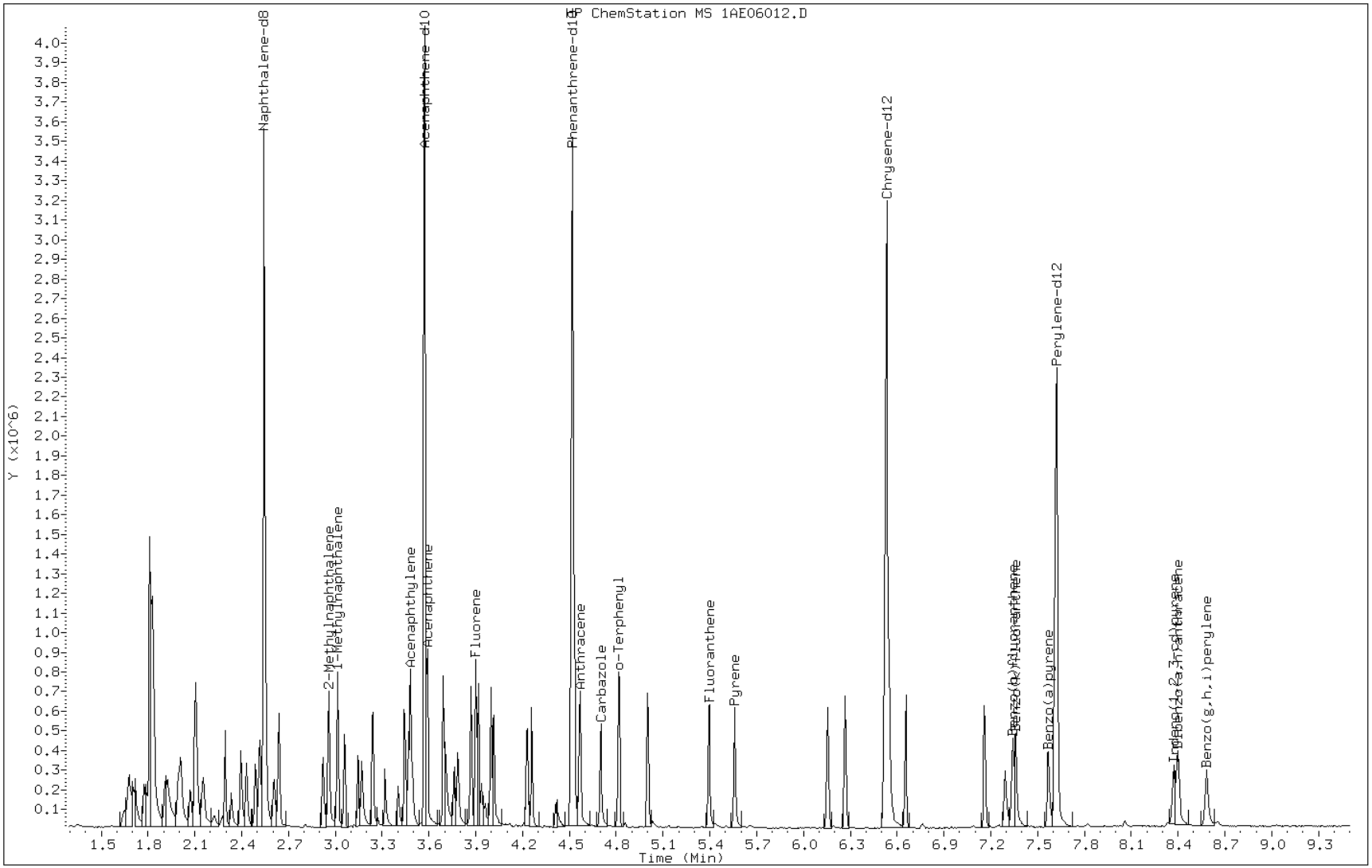
M - Compound response manually integrated.

Data File: 1AE06012.D

Date: 06-MAY-2013 13:37

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-137098/2-a Operator: SCC



Manual Integration Report

Data File: 1AE06012.D
Inj. Date and Time: 06-MAY-2013 13:37
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

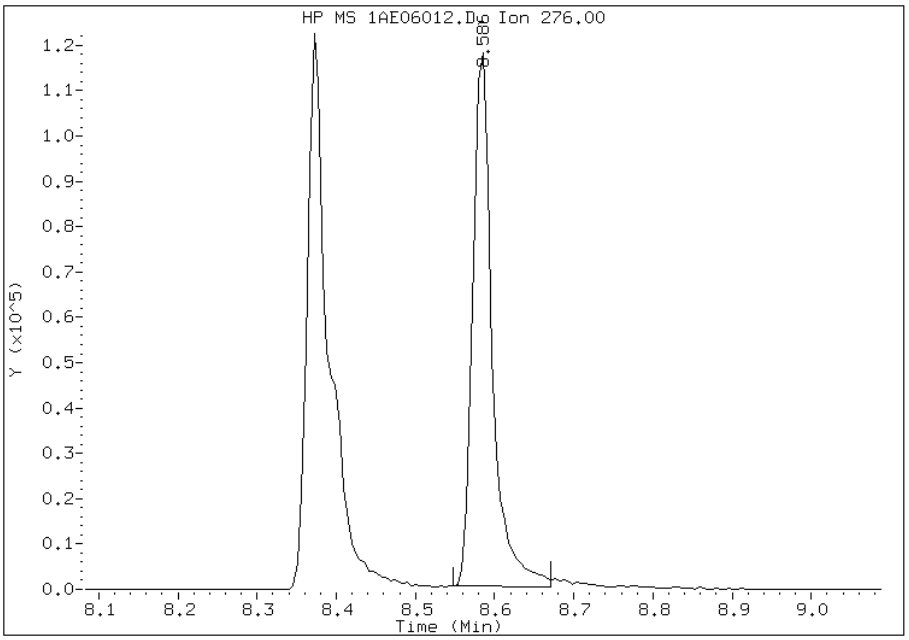
Processing Integration Results

RT: 8.59

Response: 201245

Amount: 8

Conc: 511



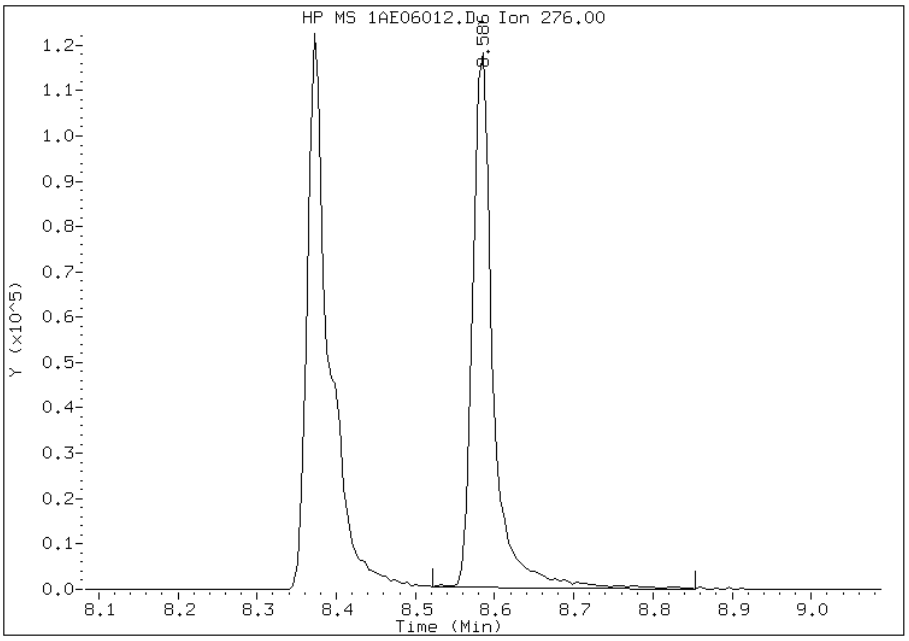
Manual Integration Results

RT: 8.59

Response: 211117

Amount: 8

Conc: 536



Manually Integrated By: cantins
Modification Date: 06-May-2013 14:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06012.D
Inj. Date and Time: 06-MAY-2013 13:37
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

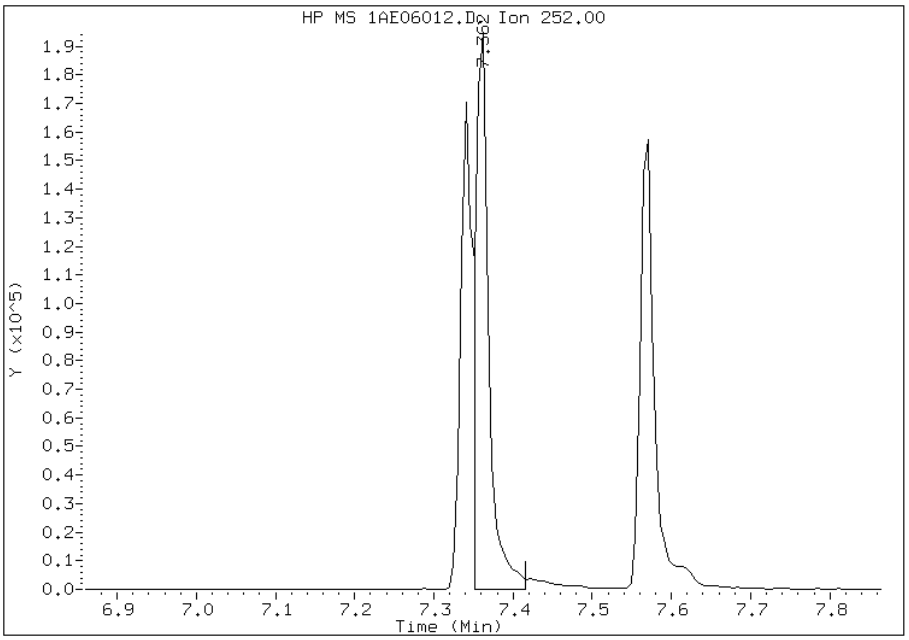
Processing Integration Results

RT: 7.36

Response: 225977

Amount: 6

Conc: 428



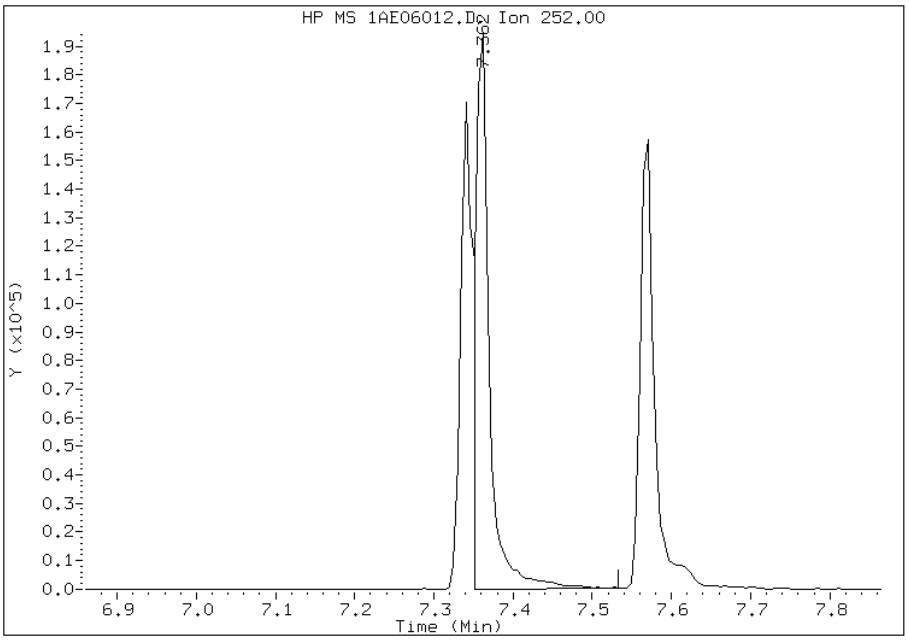
Manual Integration Results

RT: 7.36

Response: 235894

Amount: 7

Conc: 447



Manually Integrated By: cantins
Modification Date: 06-May-2013 14:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06012.D
Inj. Date and Time: 06-MAY-2013 13:37
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/09/2013

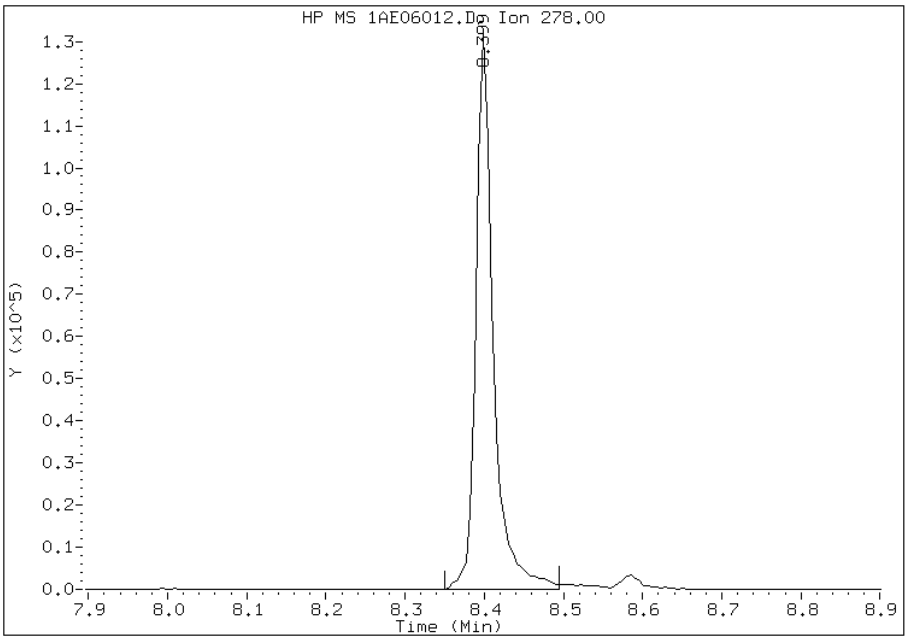
Processing Integration Results

RT: 8.40

Response: 198652

Amount: 8

Conc: 529



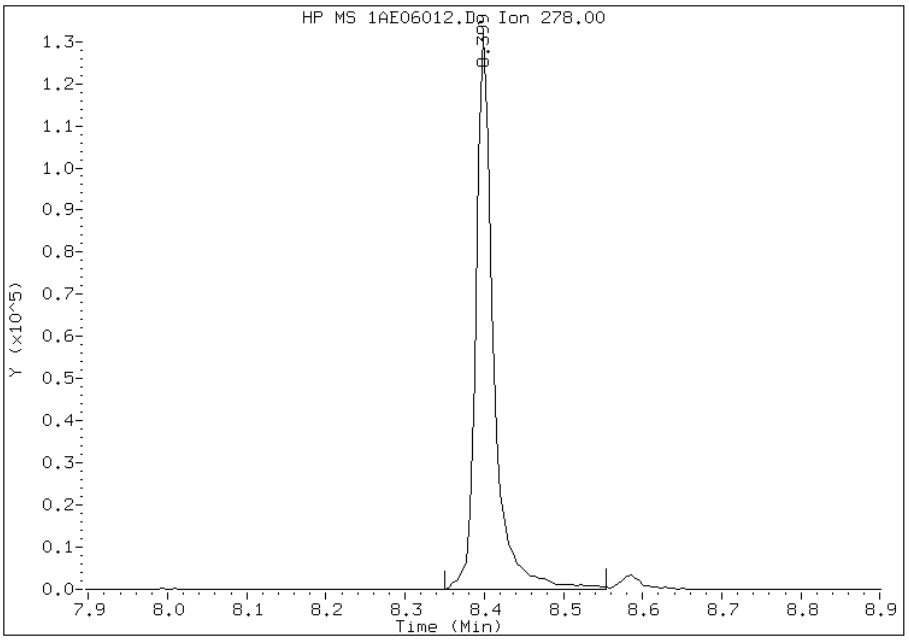
Manual Integration Results

RT: 8.40

Response: 201732

Amount: 8

Conc: 538



Manually Integrated By: cantins
Modification Date: 06-May-2013 14:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06012.D
Inj. Date and Time: 06-MAY-2013 13:37
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

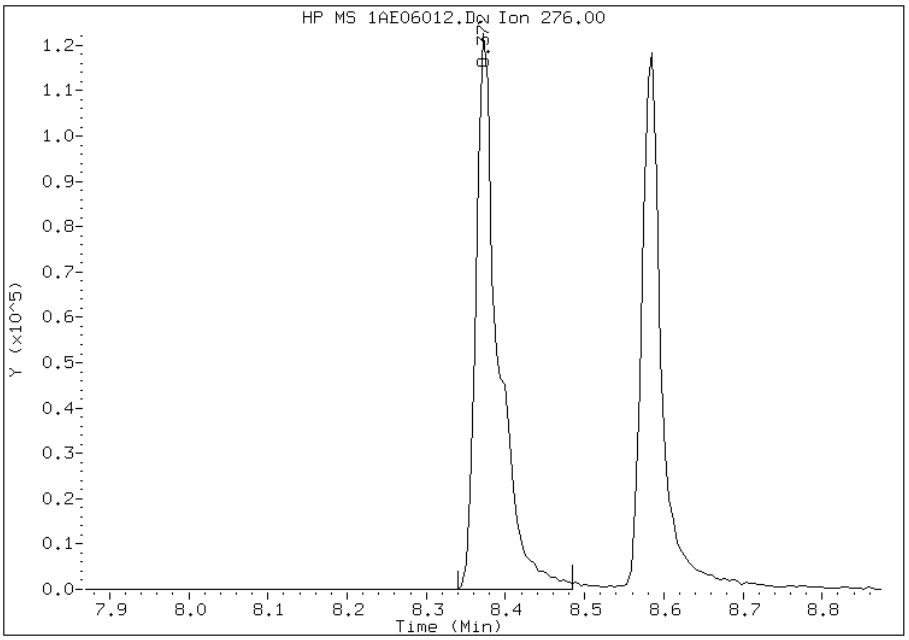
Processing Integration Results

RT: 8.37

Response: 240150

Amount: 10

Conc: 656



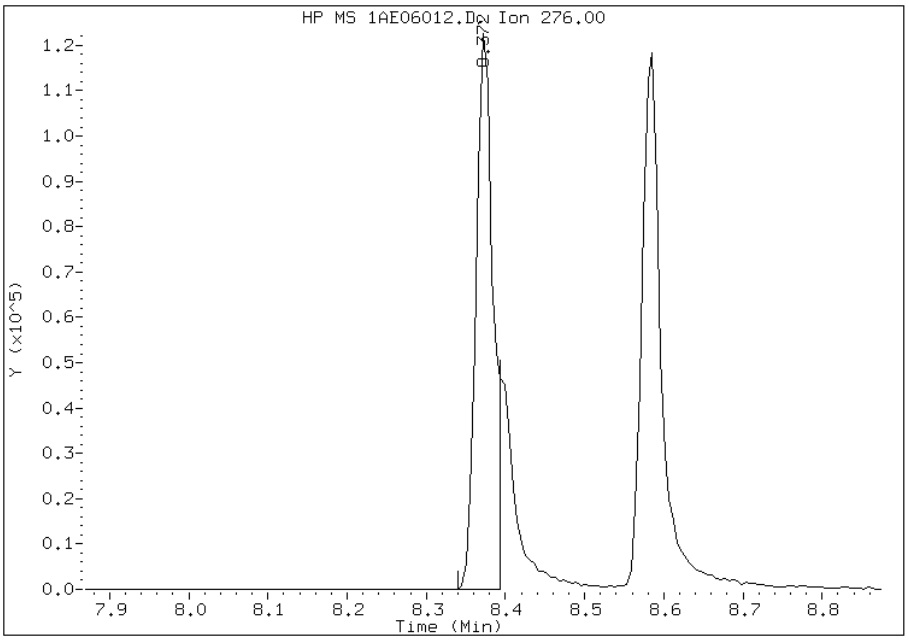
Manual Integration Results

RT: 8.37

Response: 184757

Amount: 8

Conc: 505



Manually Integrated By: cantins
Modification Date: 06-May-2013 14:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: | Lab Sample ID: LCS 660-137196/2-A

Matrix: Water | Lab File ID: 1AE08006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/07/2013 14:43

Sample wt/vol: 1000(mL) | Date Analyzed: 05/08/2013 15:30

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.: 137292 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.65		2.0	0.50
208-96-8	Acenaphthylene	8.64		1.0	0.25
120-12-7	Anthracene	8.45		0.20	0.076
56-55-3	Benzo[a]anthracene	8.07		0.20	0.050
50-32-8	Benzo[a]pyrene	5.44		0.20	0.057
205-99-2	Benzo[b]fluoranthene	6.12		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	3.70		0.50	0.10
207-08-9	Benzo[k]fluoranthene	6.98		0.20	0.057
218-01-9	Chrysene	7.73		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	3.18		0.20	0.050
206-44-0	Fluoranthene	9.06		0.50	0.054
86-73-7	Fluorene	8.78		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	2.96		0.20	0.050
90-12-0	1-Methylnaphthalene	8.61		2.0	0.50
91-57-6	2-Methylnaphthalene	8.75		2.0	0.50
91-20-3	Naphthalene	8.02		2.0	0.25
85-01-8	Phenanthrene	8.39		0.50	0.20
129-00-0	Pyrene	8.58		0.50	0.089

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\1AE08006.D
Lab Smp Id: lcs 660-137196/2-a
Inj Date : 08-MAY-2013 15:30
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-137196/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\a-bFASTPAHi-m.m
Meth Date : 08-May-2013 14:46 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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/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	2.542	2.541	(1.000)	1082594	40.0000	
*	6 Acenaphthene-d10	164	3.568	3.572	(1.000)	568324	40.0000	
*	10 Phenanthrene-d10	188	4.519	4.523	(1.000)	997509	40.0000	
$	14 o-Terphenyl	230	4.813	4.817	(1.065)	121086	8.48147	8.4814
*	18 Chrysene-d12	240	6.533	6.542	(1.000)	884067	40.0000	
*	23 Perylene-d12	264	7.617	7.632	(1.000)	767587	40.0000	
	2 Naphthalene	128	2.548	2.552	(1.002)	204463	8.01999	8.0199
	3 2-Methylnaphthalene	141	2.959	2.958	(1.164)	113337	8.74749	8.7474
	4 1-Methylnaphthalene	142	3.012	3.011	(1.185)	133657	8.60648	8.6064
	5 Acenaphthylene	152	3.483	3.481	(0.976)	230858	8.64476	8.6447
	7 Acenaphthene	154	3.589	3.588	(1.006)	117361	7.65256	7.6525
	9 Fluorene	166	3.899	3.903	(1.093)	153533	8.78474	8.7847
	11 Phenanthrene	178	4.530	4.534	(1.002)	207367	8.39119	8.3911
	12 Anthracene	178	4.567	4.571	(1.011)	222501	8.45224	8.4522
	13 Carbazole	167	4.701	4.705	(1.040)	197744	8.35464	8.3546
	15 Fluoranthene	202	5.395	5.399	(1.194)	257462	9.05614	9.0561
	16 Pyrene	202	5.561	5.565	(0.851)	243917	8.58340	8.5834

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.528	6.526	(0.999)	200503	8.06980	8.0698
19 Chrysene	228	6.549	6.558	(1.002)	216076	7.72929	7.7292
20 Benzo(b)fluoranthene	252	7.340	7.349	(0.964)	124264	6.12481	6.1248
21 Benzo(k)fluoranthene	252	7.361	7.370	(0.966)	175737	6.98207	6.9820
22 Benzo(a)pyrene	252	7.569	7.579	(0.994)	113274	5.43638	5.4363
24 Indeno(1,2,3-cd)pyrene	276	8.371	8.396	(1.099)	51723	2.96313	2.9631(M)
25 Dibenzo(a,h)anthracene	278	8.397	8.418	(1.102)	56819	3.17550	3.1754(M)
26 Benzo(g,h,i)perylene	276	8.584	8.610	(1.127)	69483	3.70167	3.7016(M)

QC Flag Legend

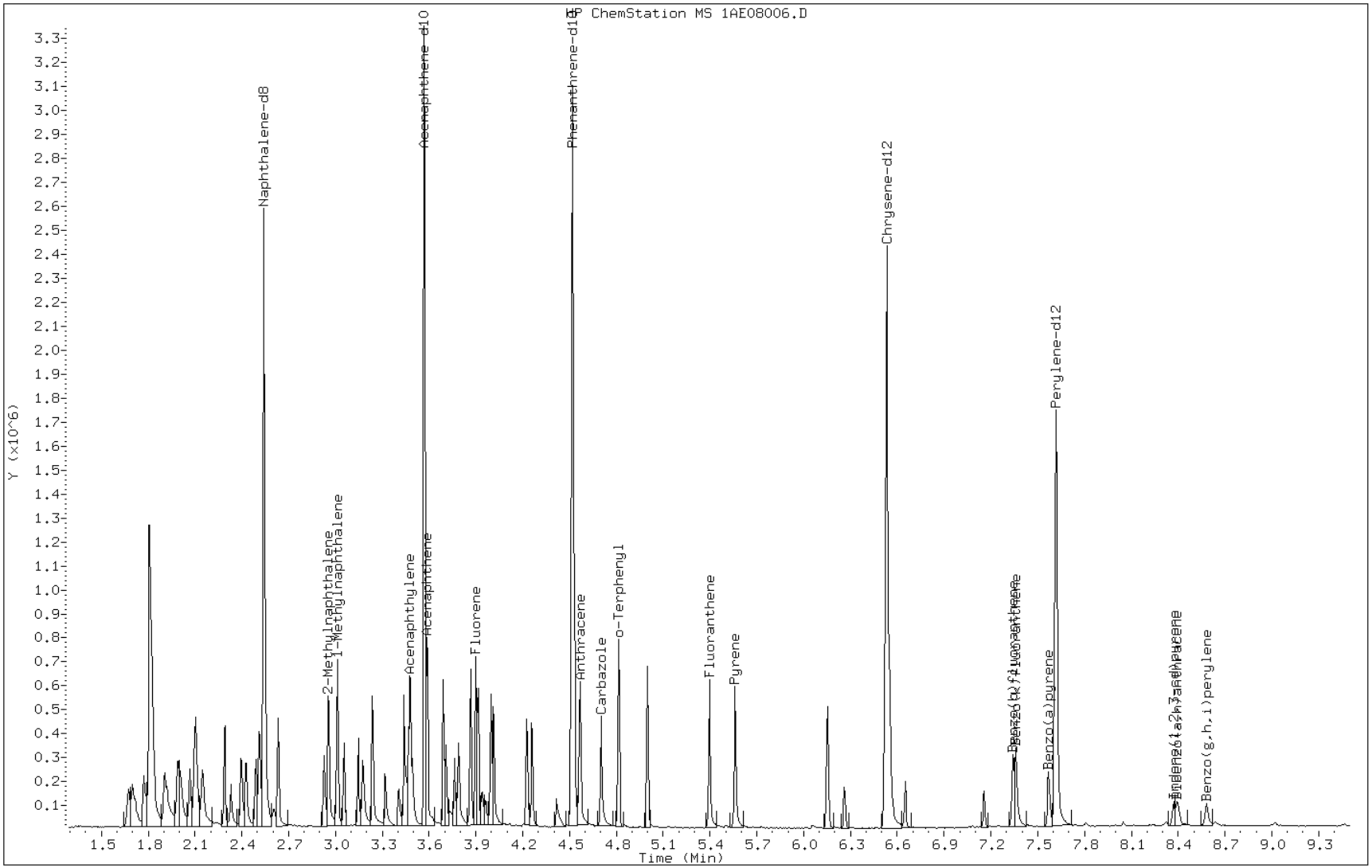
M - Compound response manually integrated.

Data File: 1AE08006.D

Date: 08-MAY-2013 15:30

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-137196/2-a Operator: SCC



Manual Integration Report

Data File: 1AE08006.D
Inj. Date and Time: 08-MAY-2013 15:30
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

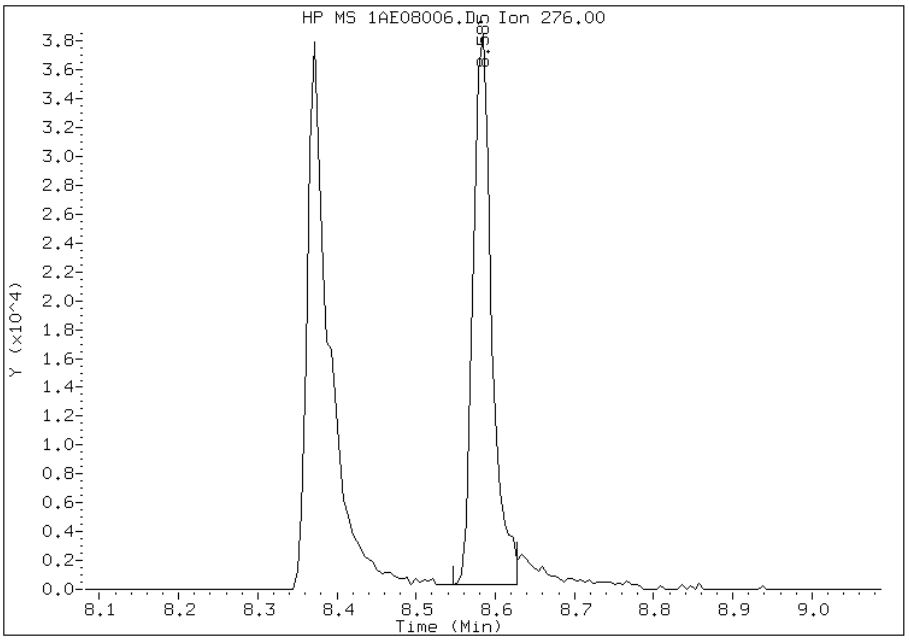
Processing Integration Results

RT: 8.58

Response: 62266

Amount: 3

Conc: 3



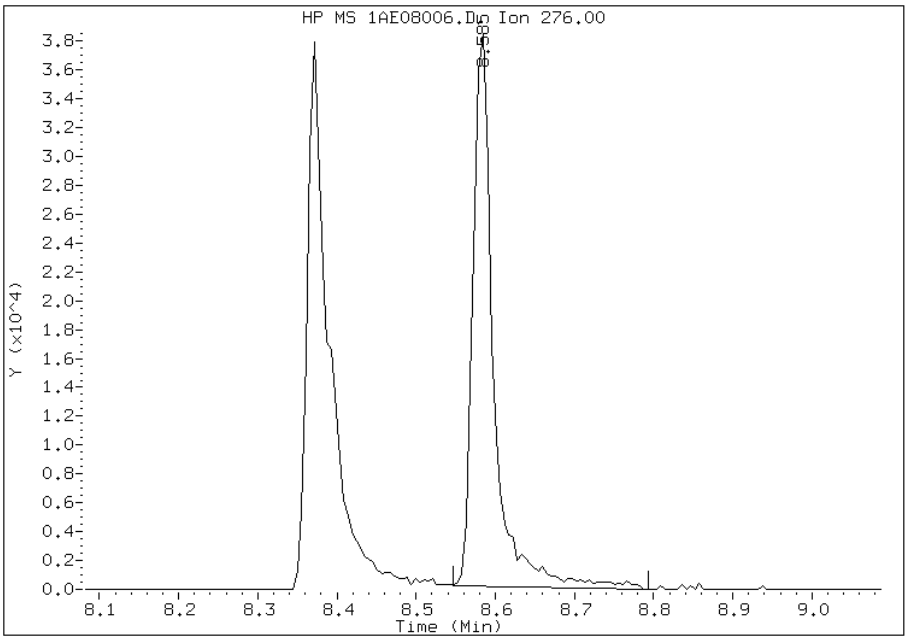
Manual Integration Results

RT: 8.58

Response: 69483

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE08006.D
Inj. Date and Time: 08-MAY-2013 15:30
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/09/2013

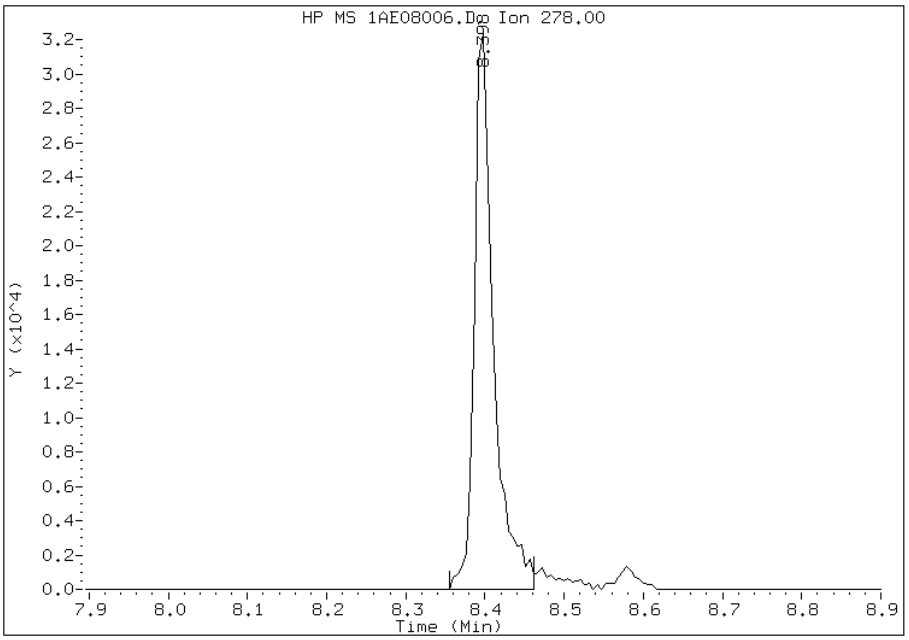
Processing Integration Results

RT: 8.40

Response: 54222

Amount: 3

Conc: 3



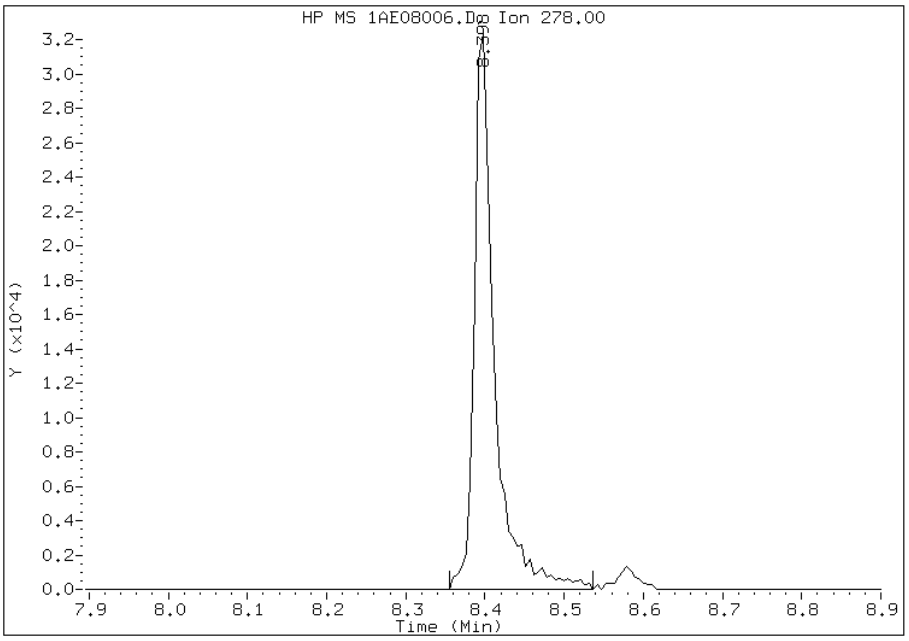
Manual Integration Results

RT: 8.40

Response: 56819

Amount: 3

Conc: 3



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE08006.D
Inj. Date and Time: 08-MAY-2013 15:30
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

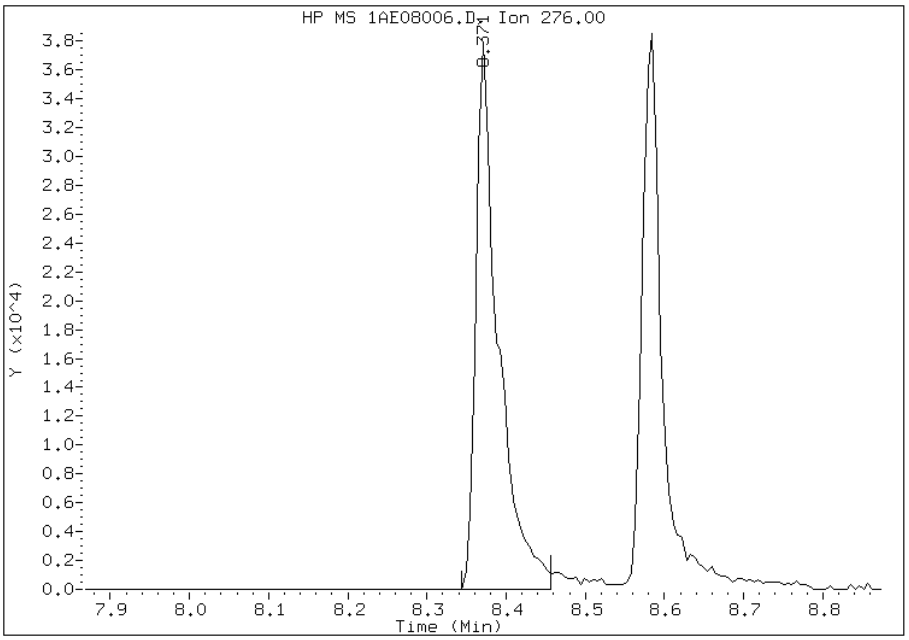
Processing Integration Results

RT: 8.37

Response: 73925

Amount: 4

Conc: 4



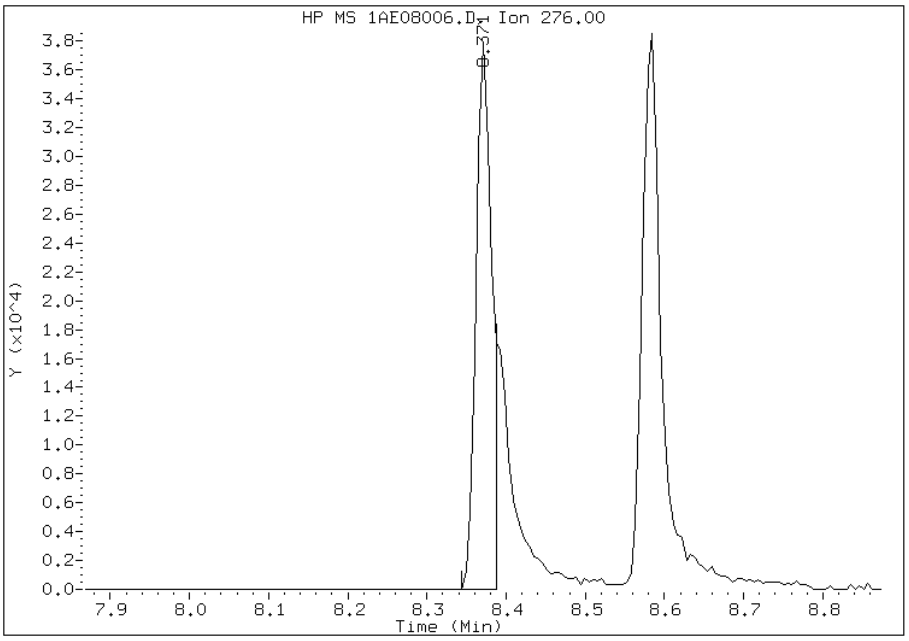
Manual Integration Results

RT: 8.37

Response: 51723

Amount: 3

Conc: 3



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: | Lab Sample ID: LCSD 660-137196/3-A

Matrix: Water | Lab File ID: 1AE08007.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 05/07/2013 14:43

Sample wt/vol: 1000(mL) | Date Analyzed: 05/08/2013 15:45

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.: 137292 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	8.07		2.0	0.50
208-96-8	Acenaphthylene	8.53		1.0	0.25
120-12-7	Anthracene	8.31		0.20	0.076
56-55-3	Benzo[a]anthracene	7.92		0.20	0.050
50-32-8	Benzo[a]pyrene	4.66		0.20	0.057
205-99-2	Benzo[b]fluoranthene	6.04		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	3.10		0.50	0.10
207-08-9	Benzo[k]fluoranthene	5.73		0.20	0.057
218-01-9	Chrysene	7.35		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	2.91		0.20	0.050
206-44-0	Fluoranthene	8.54		0.50	0.054
86-73-7	Fluorene	8.71		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	2.64		0.20	0.050
90-12-0	1-Methylnaphthalene	9.19		2.0	0.50
91-57-6	2-Methylnaphthalene	8.77		2.0	0.50
91-20-3	Naphthalene	8.00		2.0	0.25
85-01-8	Phenanthrene	8.39		0.50	0.20
129-00-0	Pyrene	8.45		0.50	0.089

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\1AE08007.D
Lab Smp Id: lcsd 660-137196/3-a
Inj Date : 08-MAY-2013 15:45
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcsd 660-137196/3-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\a-bFASTPAHi-m.m
Meth Date : 08-May-2013 14:46 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	2.539	2.541	(1.000)	1063226	40.0000	
*	6 Acenaphthene-d10	164	3.570	3.572	(1.000)	576000	40.0000	
*	10 Phenanthrene-d10	188	4.515	4.523	(1.000)	987812	40.0000	
$	14 o-Terphenyl	230	4.814	4.817	(1.066)	113177	8.00531	8.0053
*	18 Chrysene-d12	240	6.535	6.542	(1.000)	864491	40.0000	
*	23 Perylene-d12	264	7.614	7.632	(1.000)	726871	40.0000	
	2 Naphthalene	128	2.549	2.552	(1.004)	200405	8.00401	8.0040
	3 2-Methylnaphthalene	141	2.955	2.958	(1.164)	111607	8.77088	8.7708
	4 1-Methylnaphthalene	142	3.014	3.011	(1.187)	140143	9.18851	9.1885
	5 Acenaphthylene	152	3.479	3.481	(0.975)	230847	8.52915	8.5291
	7 Acenaphthene	154	3.586	3.588	(1.004)	125460	8.07164	8.0716
	9 Fluorene	166	3.901	3.903	(1.093)	154358	8.71424	8.7142
	11 Phenanthrene	178	4.531	4.534	(1.004)	205333	8.39044	8.3904
	12 Anthracene	178	4.563	4.571	(1.011)	216562	8.30739	8.3073
	13 Carbazole	167	4.702	4.705	(1.041)	191398	8.16590	8.1659
	15 Fluoranthene	202	5.397	5.399	(1.195)	240333	8.53662	8.5366
	16 Pyrene	202	5.562	5.565	(0.851)	234803	8.44979	8.4497

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.524	6.526	(0.998)	192520	7.92396	7.9239
19 Chrysene	228	6.551	6.558	(1.002)	200877	7.34832	7.3483
20 Benzo(b)fluoranthene	252	7.341	7.349	(0.964)	116100	6.04297	6.0429
21 Benzo(k)fluoranthene	252	7.357	7.370	(0.966)	136496	5.72679	5.7267
22 Benzo(a)pyrene	252	7.566	7.579	(0.994)	91952	4.66027	4.6602
24 Indeno(1,2,3-cd)pyrene	276	8.367	8.396	(1.099)	43610	2.63830	2.6382(M)
25 Dibenzo(a,h)anthracene	278	8.388	8.418	(1.102)	49359	2.91309	2.9130(M)
26 Benzo(g,h,i)perylene	276	8.575	8.610	(1.126)	55124	3.10120	3.1012(M)

QC Flag Legend

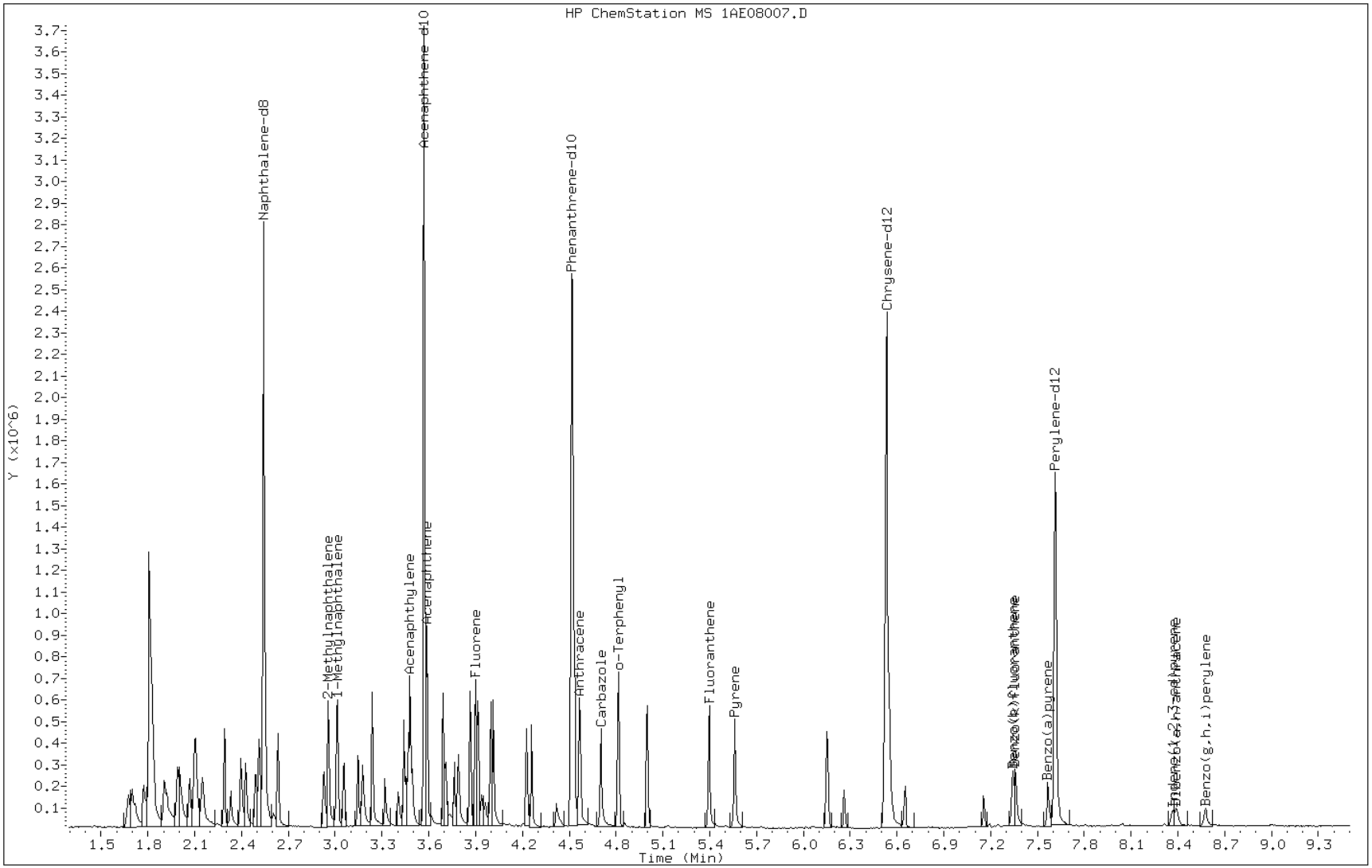
M - Compound response manually integrated.

Data File: 1AE08007.D

Date: 08-MAY-2013 15:45

Client ID: Instrument: BSMA5973.i

Sample Info: lcsd 660-137196/3-a Operator: SCC



Manual Integration Report

Data File: 1AE08007.D
Inj. Date and Time: 08-MAY-2013 15:45
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

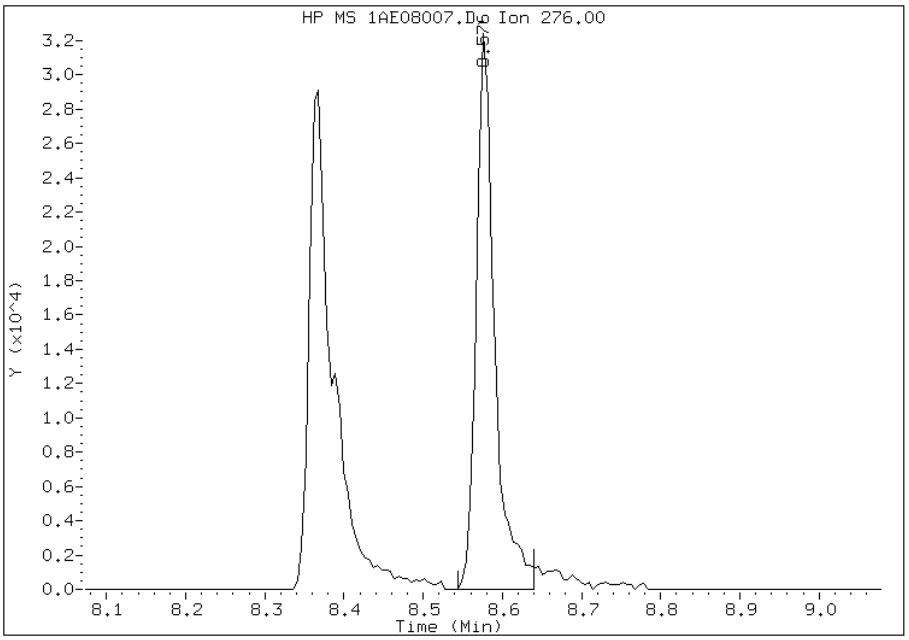
Processing Integration Results

RT: 8.58

Response: 51806

Amount: 3

Conc: 3



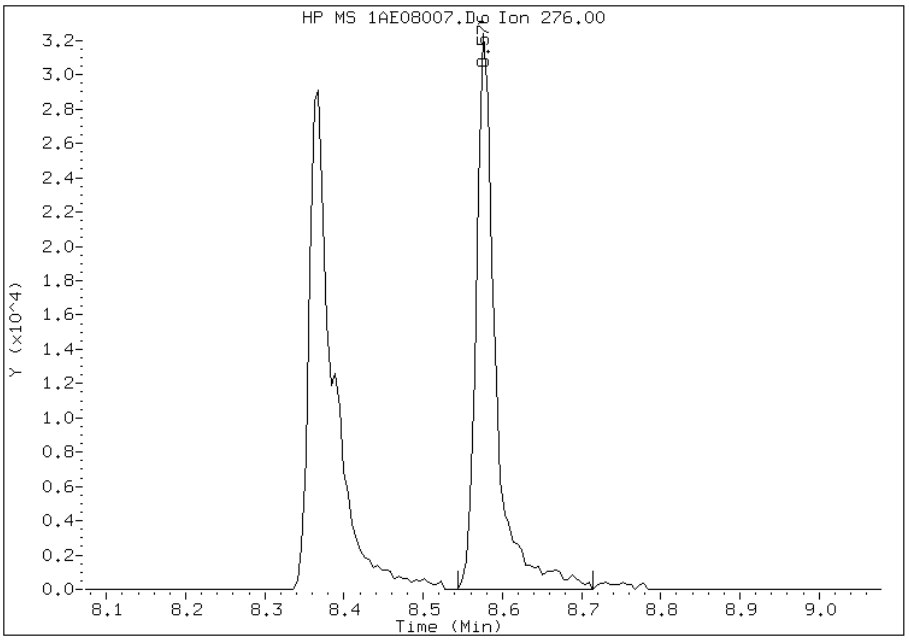
Manual Integration Results

RT: 8.58

Response: 55124

Amount: 3

Conc: 3



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE08007.D
Inj. Date and Time: 08-MAY-2013 15:45
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/09/2013

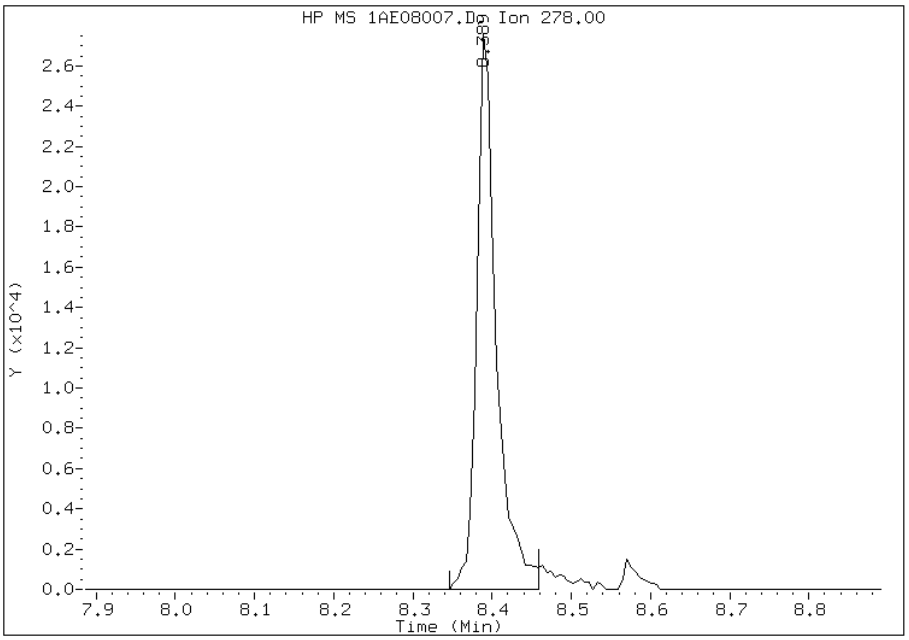
Processing Integration Results

RT: 8.39

Response: 47166

Amount: 3

Conc: 3



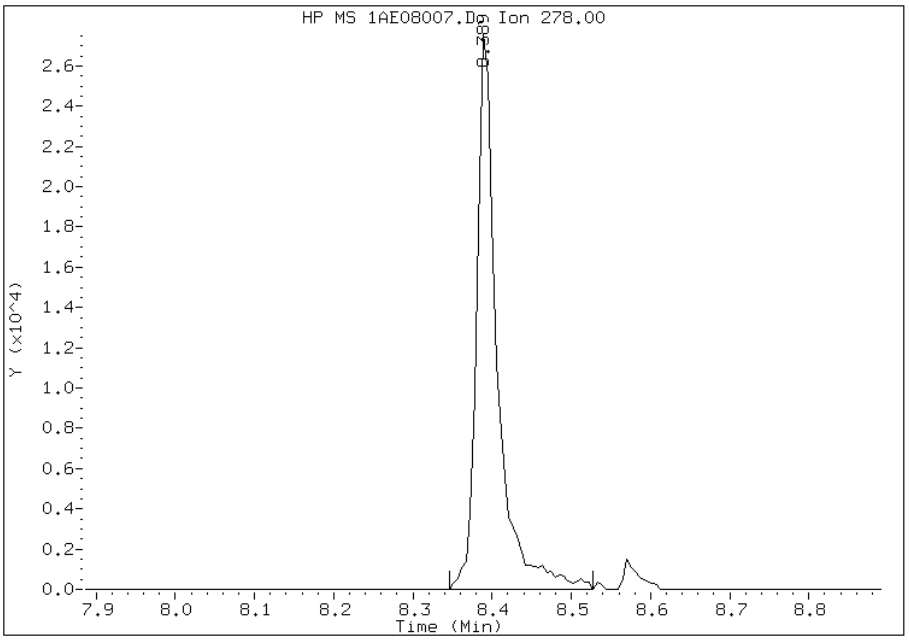
Manual Integration Results

RT: 8.39

Response: 49359

Amount: 3

Conc: 3



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE08007.D
Inj. Date and Time: 08-MAY-2013 15:45
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

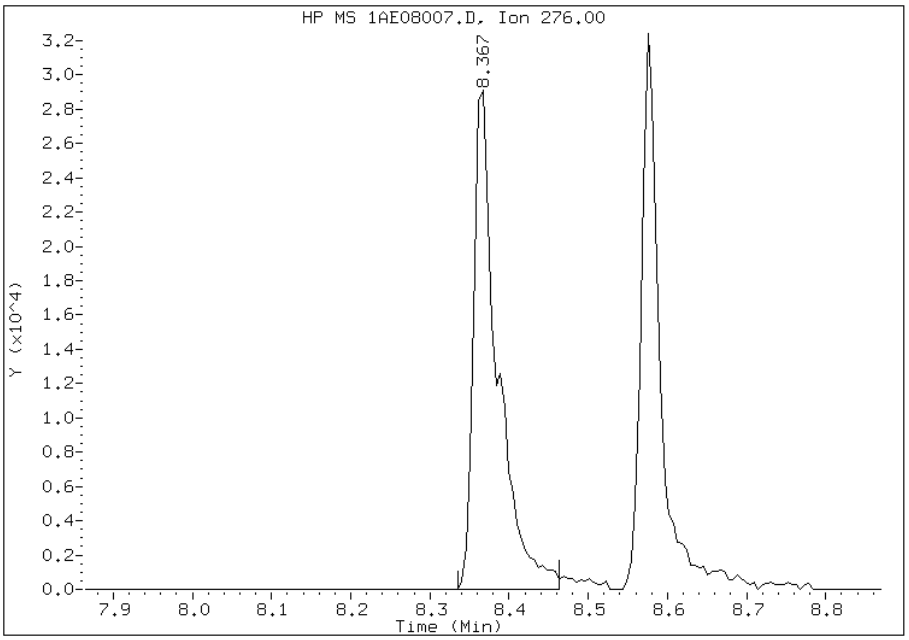
Processing Integration Results

RT: 8.37

Response: 61149

Amount: 4

Conc: 4



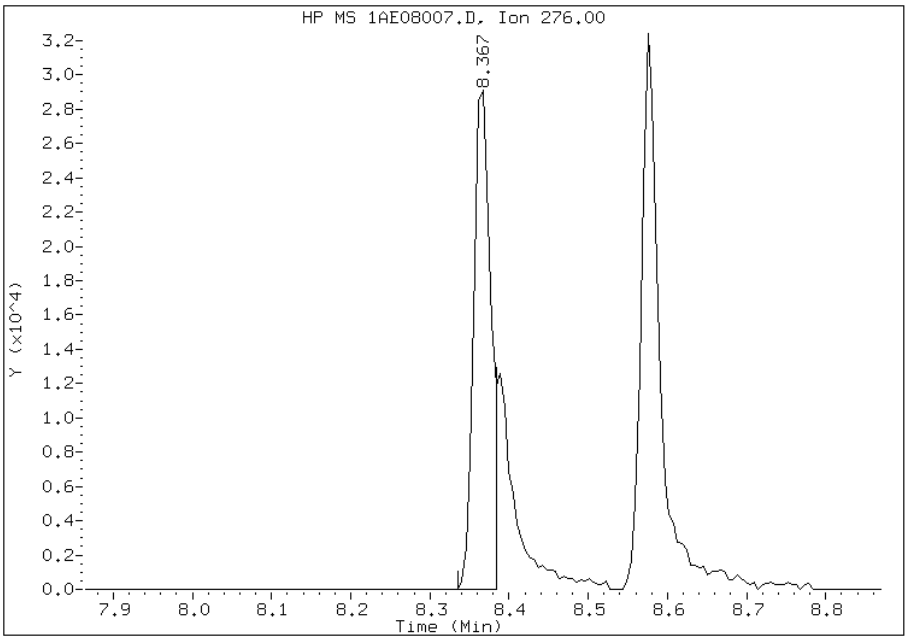
Manual Integration Results

RT: 8.37

Response: 43610

Amount: 3

Conc: 3



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0731A-CS-SP MS | Lab Sample ID: 680-89896-4 MS

Matrix: Solid | Lab File ID: 1AE06027.D

Analysis Method: 8270C LL | Date Collected: 04/29/2013 13:22

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 14.98(g) | Date Analyzed: 05/06/2013 17:26

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

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

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	491		490	97
208-96-8	Acenaphthylene	632		190	24
120-12-7	Anthracene	676		41	20
56-55-3	Benzo[a]anthracene	1070		39	19
50-32-8	Benzo[a]pyrene	843		51	25
205-99-2	Benzo[b]fluoranthene	1100		59	30
191-24-2	Benzo[g,h,i]perylene	887		97	21
207-08-9	Benzo[k]fluoranthene	655		39	18
218-01-9	Chrysene	792		44	22
53-70-3	Dibenz(a,h)anthracene	705		97	20
206-44-0	Fluoranthene	1310		97	19
86-73-7	Fluorene	571		97	20
193-39-5	Indeno[1,2,3-cd]pyrene	937		97	35
90-12-0	1-Methylnaphthalene	616		190	21
91-57-6	2-Methylnaphthalene	645		190	35
91-20-3	Naphthalene	604		190	21
85-01-8	Phenanthrene	1220		39	19
129-00-0	Pyrene	1250		97	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06027.D
Lab Smp Id: 680-89896-a-4-b ms
Inj Date : 06-MAY-2013 17:26
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-4-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 27 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	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	2.550	2.544	(1.000)	1328370	40.0000	
*	6 Acenaphthene-d10	164	3.576	3.575	(1.000)	699927	40.0000	
*	10 Phenanthrene-d10	188	4.527	4.521	(1.000)	1109417	40.0000	
$	14 o-Terphenyl	230	4.820	4.820	(1.065)	23973	1.50981	403.1530
*	18 Chrysene-d12	240	6.546	6.535	(1.000)	903287	40.0000	
*	23 Perylene-d12	264	7.636	7.630	(1.000)	1116882	40.0000	
	2 Naphthalene	128	2.561	2.555	(1.004)	58334	1.86478	497.9381
	3 2-Methylnaphthalene	141	2.961	2.961	(1.161)	31649	1.99076	531.5774
	4 1-Methylnaphthalene	142	3.020	3.014	(1.184)	36197	1.89956	507.2253
	5 Acenaphthylene	152	3.485	3.484	(0.975)	64176	1.95130	521.0411
	7 Acenaphthene	154	3.592	3.591	(1.004)	28598	1.51412	404.3056
	9 Fluorene	166	3.907	3.901	(1.093)	37921	1.76177	470.4334
	11 Phenanthrene	178	4.537	4.537	(1.002)	103674	3.77203	1007.2185(R)
	12 Anthracene	178	4.569	4.569	(1.009)	61105	2.08708	557.2972

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.708	4.702	(1.040)	52826	2.00675	535.8487
15 Fluoranthene	202	5.403	5.397	(1.194)	127361	4.02799	1075.5653(R)
16 Pyrene	202	5.568	5.562	(0.851)	112330	3.86877	1033.0487(R)
17 Benzo(a)anthracene	228	6.535	6.524	(0.998)	83703	3.29718	880.4214(R)
19 Chrysene	228	6.562	6.551	(1.002)	69827	2.44465	652.7760
20 Benzo(b)fluoranthene	252	7.353	7.347	(0.963)	100051	3.38914	904.9770(R)
21 Benzo(k)fluoranthene	252	7.369	7.368	(0.965)	74012	2.02089	539.6242
22 Benzo(a)pyrene	252	7.577	7.576	(0.992)	78807	2.59935	694.0849
24 Indeno(1,2,3-cd)pyrene	276	8.384	8.388	(1.098)	73445	2.89168	772.1430(M)
25 Dibenzo(a,h)anthracene	278	8.410	8.414	(1.101)	56593	2.17371	580.4291(M)
26 Benzo(g,h,i)perylene	276	8.597	8.602	(1.126)	74746	2.73670	730.7617

QC Flag Legend

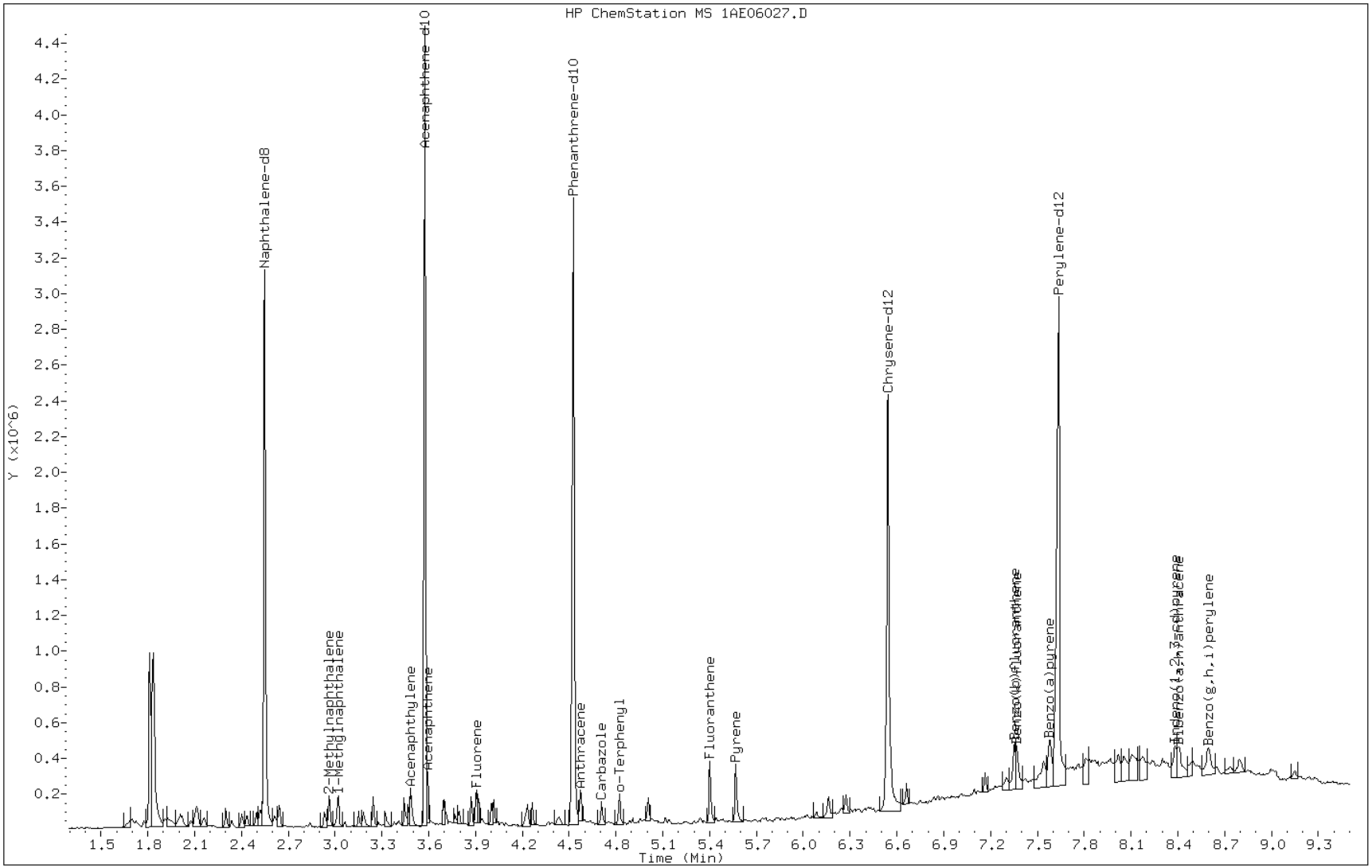
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AE06027.D

Date: 06-MAY-2013 17:26

Client ID: Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-b ms Operator: SCC



Manual Integration Report

Data File: 1AE06027.D
Inj. Date and Time: 06-MAY-2013 17:26
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/09/2013

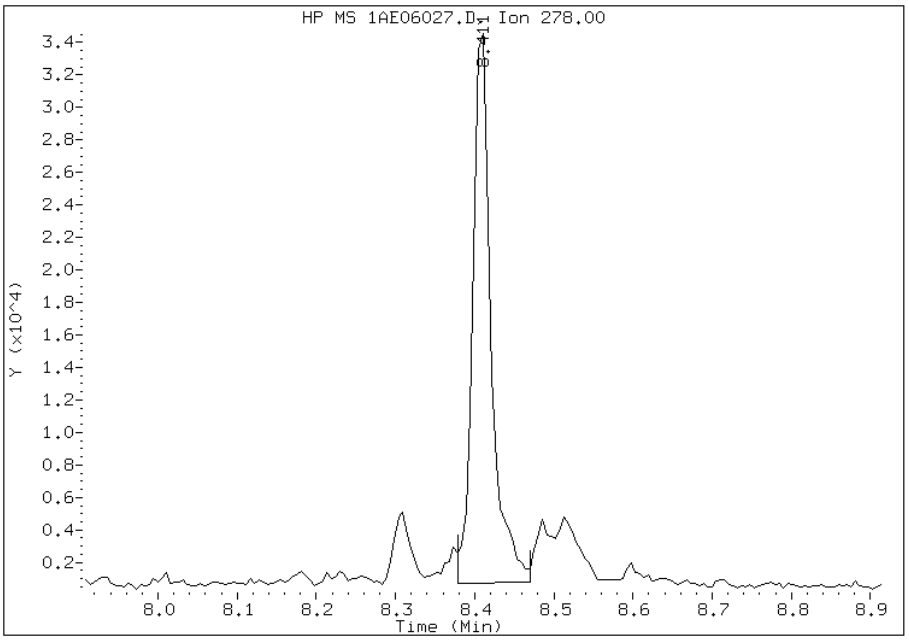
Processing Integration Results

RT: 8.41

Response: 54576

Amount: 2

Conc: 560



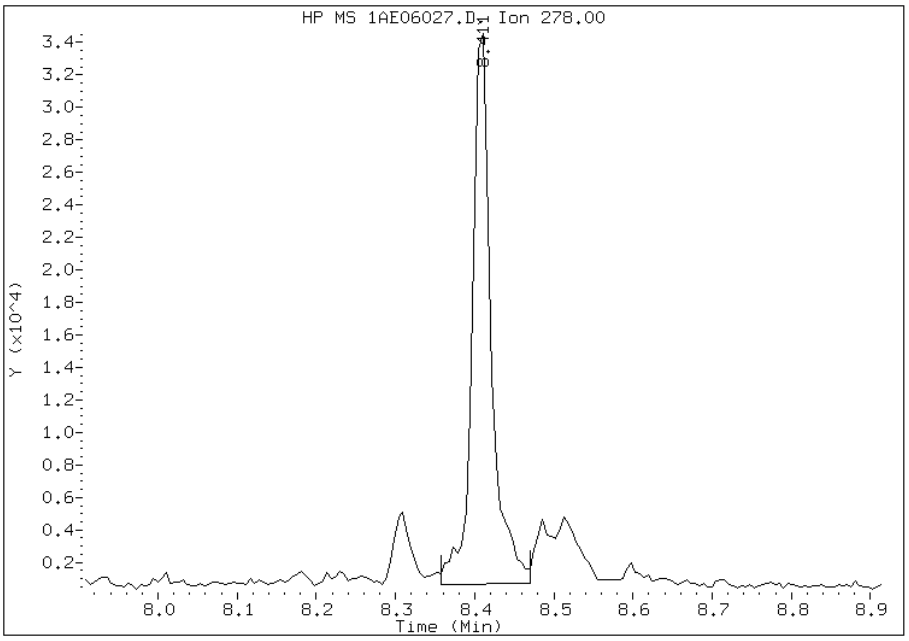
Manual Integration Results

RT: 8.41

Response: 56593

Amount: 2

Conc: 580



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06027.D
Inj. Date and Time: 06-MAY-2013 17:26
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

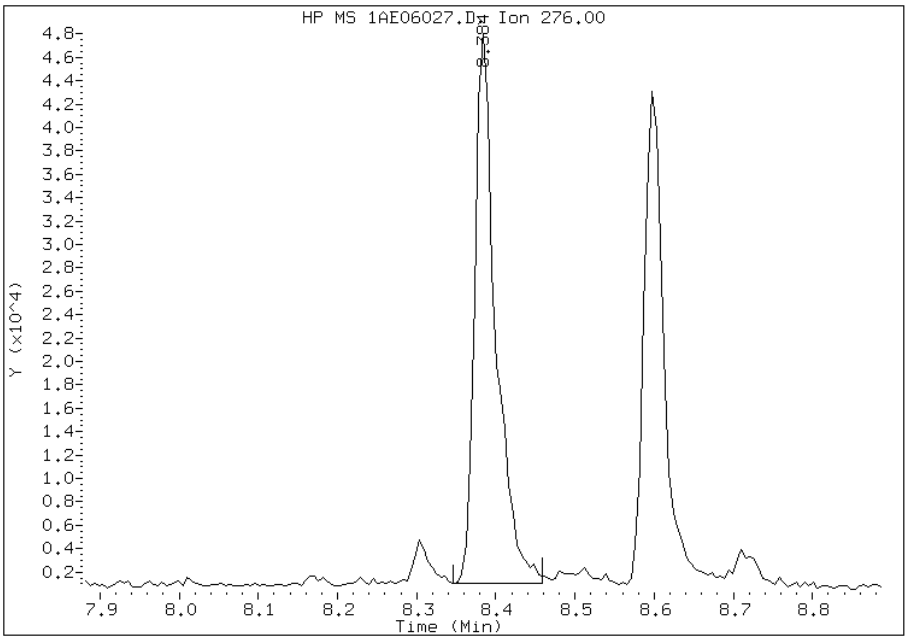
Processing Integration Results

RT: 8.38

Response: 85988

Amount: 3

Conc: 904



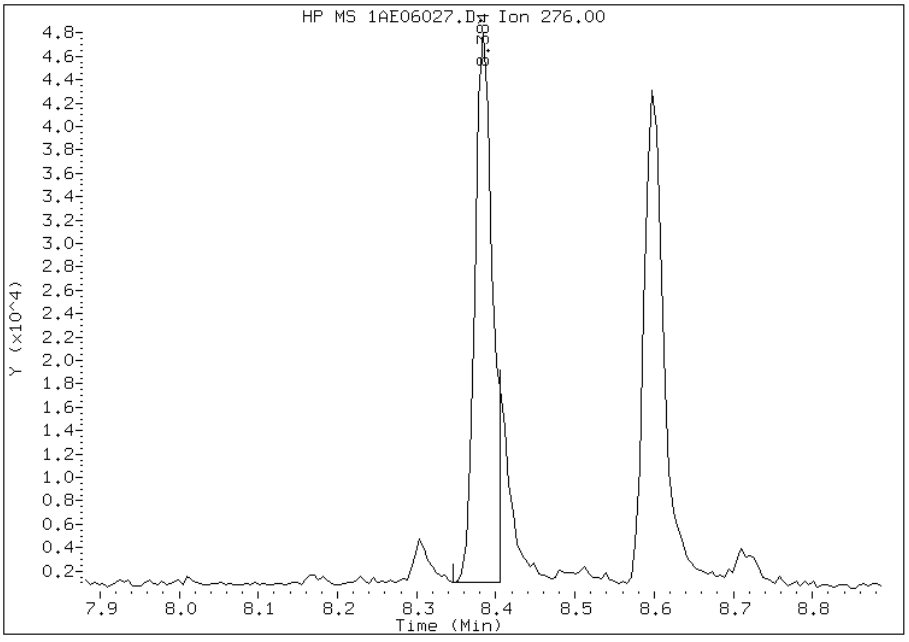
Manual Integration Results

RT: 8.38

Response: 73445

Amount: 3

Conc: 772



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: 050113-RB-Bowls&Spoons MS | Lab Sample ID: 680-89896-23 MS

Matrix: Water | Lab File ID: 1AE08009.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 09:30

Extract. Method: 3520C | Date Extracted: 05/07/2013 14:43

Sample wt/vol: 950(mL) | Date Analyzed: 05/08/2013 16:16

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.: 137292 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	8.80		2.1	0.53
208-96-8	Acenaphthylene	9.35		1.1	0.26
120-12-7	Anthracene	9.13		0.21	0.080
56-55-3	Benzo[a]anthracene	8.50		0.21	0.053
50-32-8	Benzo[a]pyrene	4.94		0.21	0.060
205-99-2	Benzo[b]fluoranthene	6.25		0.21	0.053
191-24-2	Benzo[g,h,i]perylene	2.66		0.53	0.11
207-08-9	Benzo[k]fluoranthene	5.40		0.21	0.060
218-01-9	Chrysene	7.23		0.21	0.073
53-70-3	Dibenz(a,h)anthracene	2.09		0.21	0.053
206-44-0	Fluoranthene	9.52		0.53	0.057
86-73-7	Fluorene	9.62		2.1	0.53
193-39-5	Indeno[1,2,3-cd]pyrene	2.55		0.21	0.053
90-12-0	1-Methylnaphthalene	10.2		2.1	0.53
91-57-6	2-Methylnaphthalene	9.81		2.1	0.53
91-20-3	Naphthalene	9.05		2.1	0.26
85-01-8	Phenanthrene	9.06		0.53	0.21
129-00-0	Pyrene	9.48		0.53	0.094

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\1AE08009.D
Lab Smp Id: 680-89896-b-23-a ms
Inj Date : 08-MAY-2013 16:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-b-23-a ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\a-bFASTPAHi-m.m
Meth Date : 08-May-2013 14:46 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 9 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/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	950.000	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	2.539	2.541	(1.000)	1018696	40.0000	
*	6 Acenaphthene-d10	164	3.570	3.572	(1.000)	557210	40.0000	
*	10 Phenanthrene-d10	188	4.516	4.523	(1.000)	940863	40.0000	
$	14 o-Terphenyl	230	4.815	4.817	(1.066)	116770	8.67160	9.1279
*	18 Chrysene-d12	240	6.535	6.542	(1.000)	821044	40.0000	
*	23 Perylene-d12	264	7.614	7.632	(1.000)	728041	40.0000	
	2 Naphthalene	128	2.550	2.552	(1.004)	206165	8.59399	9.0463
	3 2-Methylnaphthalene	141	2.956	2.958	(1.164)	113674	9.32382	9.8145
	4 1-Methylnaphthalene	142	3.015	3.011	(1.187)	141905	9.71074	10.2218
	5 Acenaphthylene	152	3.479	3.481	(0.975)	232490	8.87952	9.3468
	7 Acenaphthene	154	3.586	3.588	(1.004)	125699	8.35972	8.7997
	9 Fluorene	166	3.901	3.903	(1.093)	156520	9.13427	9.6150
	11 Phenanthrene	178	4.532	4.534	(1.004)	200595	8.60586	9.0587
	12 Anthracene	178	4.564	4.571	(1.011)	215389	8.67469	9.1312
	13 Carbazole	167	4.703	4.705	(1.041)	189502	8.48845	8.9352
	15 Fluoranthene	202	5.397	5.399	(1.195)	242627	9.04815	9.5243
	16 Pyrene	202	5.563	5.565	(0.851)	237682	9.00601	9.4800

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.524	6.526	(0.998)	186353	8.07601	8.5010
19 Chrysene	228	6.551	6.558	(1.002)	178357	6.86977	7.2313
20 Benzo(b)fluoranthene	252	7.342	7.349	(0.964)	114180	5.93348	6.2457
21 Benzo(k)fluoranthene	252	7.358	7.370	(0.966)	122384	5.12646	5.3962(M)
22 Benzo(a)pyrene	252	7.566	7.579	(0.994)	92742	4.69275	4.9397
24 Indeno(1,2,3-cd)pyrene	276	8.367	8.396	(1.099)	40131	2.42392	2.5514(M)
25 Dibenzo(a,h)anthracene	278	8.394	8.418	(1.102)	33651	1.98284	2.0872(M)
26 Benzo(g,h,i)perylene	276	8.576	8.610	(1.126)	44925	2.52336	2.6561(RM)

QC Flag Legend

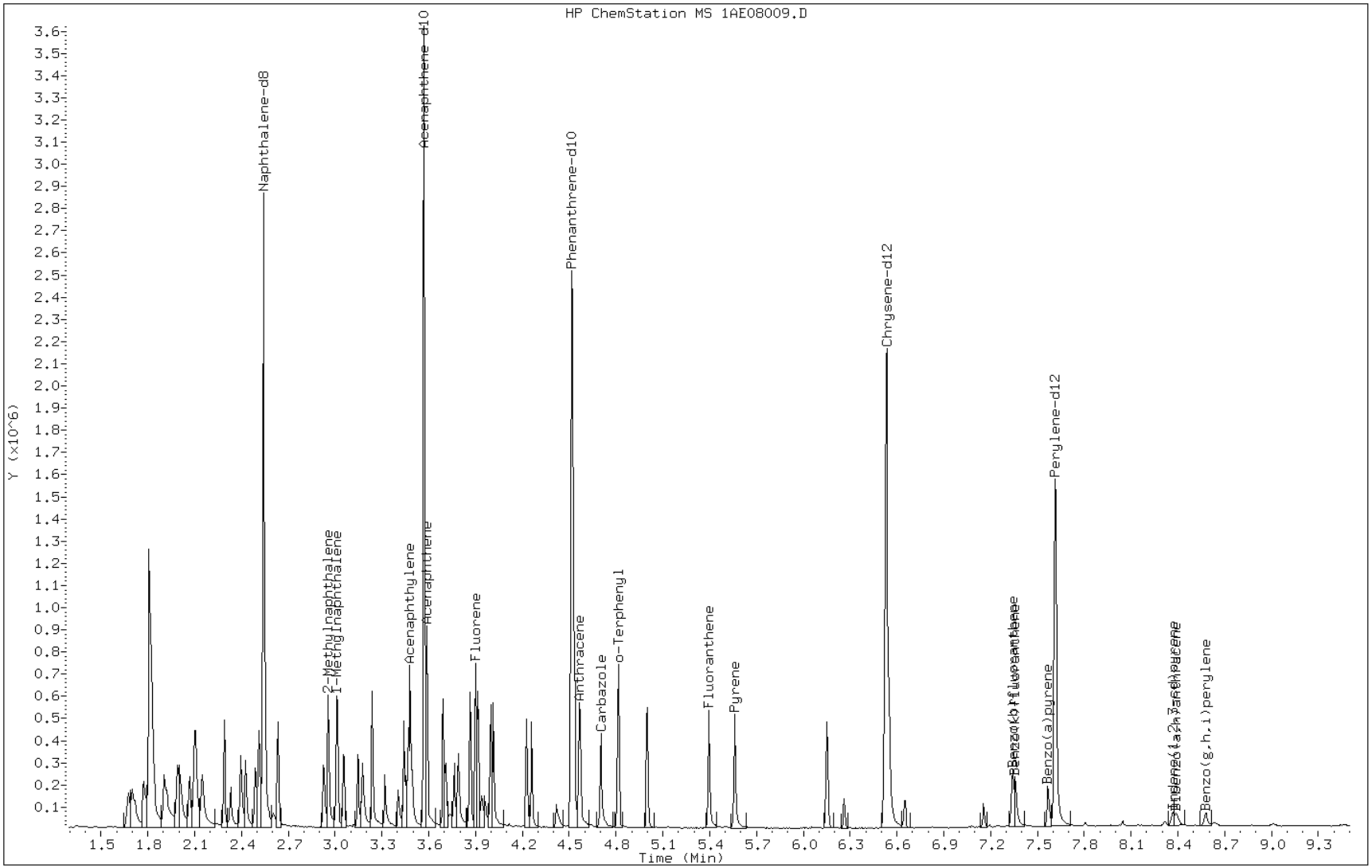
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AE08009.D

Date: 08-MAY-2013 16:16

Client ID: Instrument: BSMA5973.i

Sample Info: 680-89896-b-23-a ms Operator: SCC



Manual Integration Report

Data File: 1AE08009.D
Inj. Date and Time: 08-MAY-2013 16:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

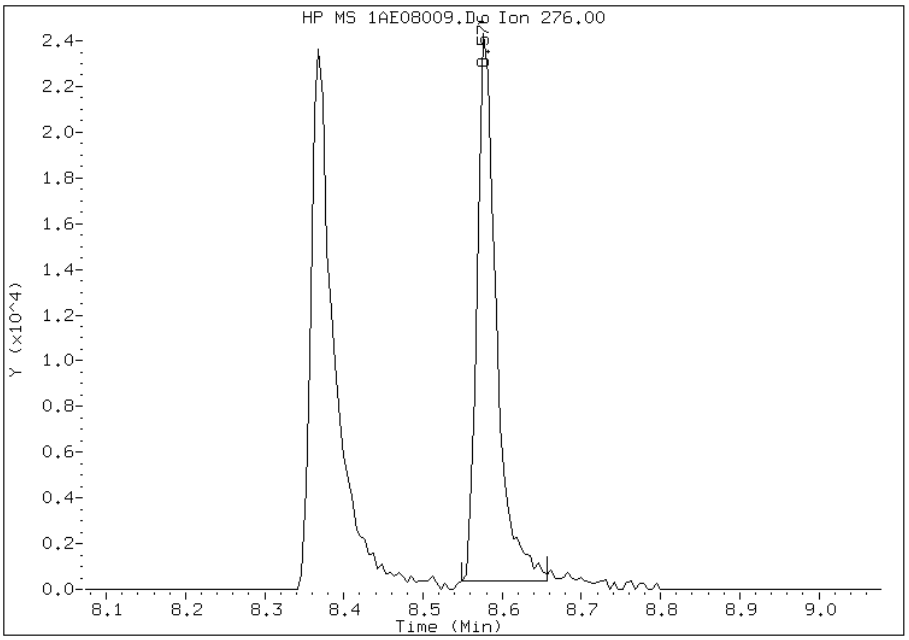
Processing Integration Results

RT: 8.58

Response: 40000

Amount: 2

Conc: 2



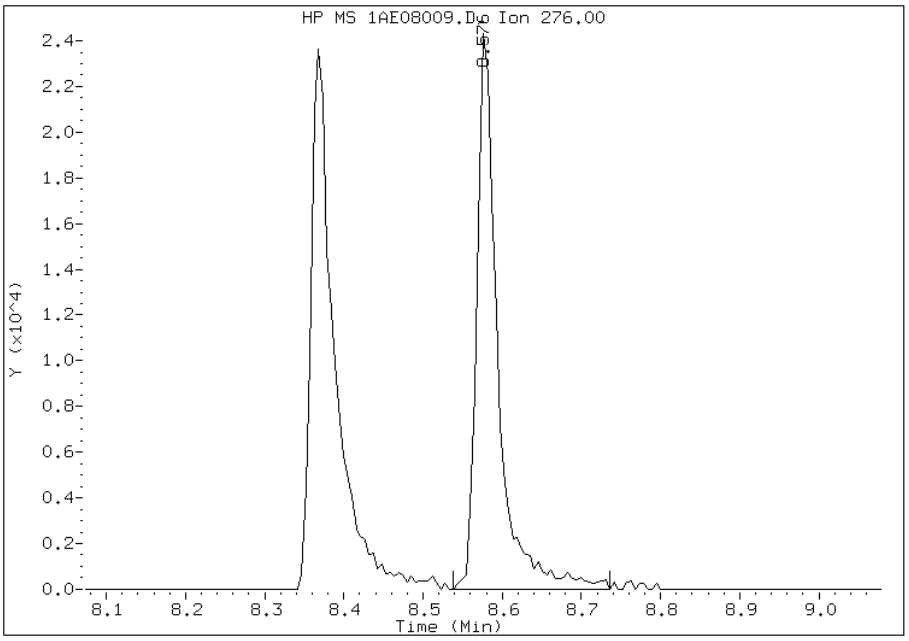
Manual Integration Results

RT: 8.58

Response: 44925

Amount: 3

Conc: 3



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE08009.D
Inj. Date and Time: 08-MAY-2013 16:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

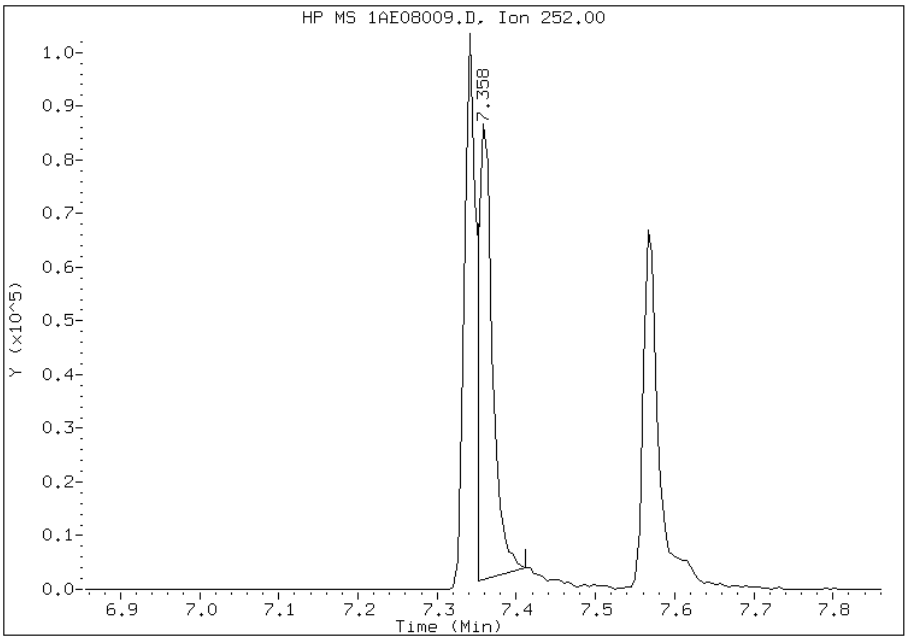
Processing Integration Results

RT: 7.36

Response: 102347

Amount: 4

Conc: 5



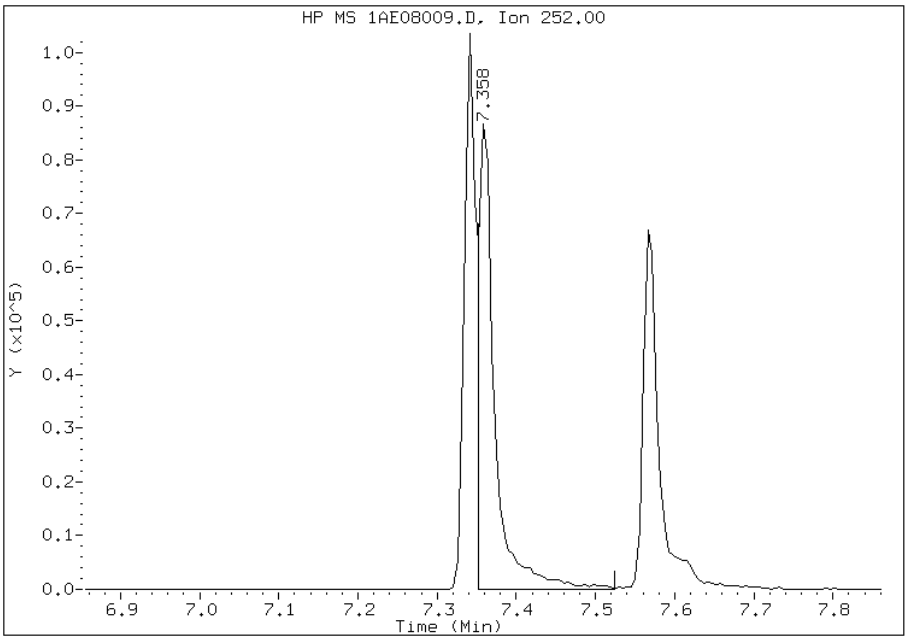
Manual Integration Results

RT: 7.36

Response: 122384

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE08009.D
Inj. Date and Time: 08-MAY-2013 16:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/09/2013

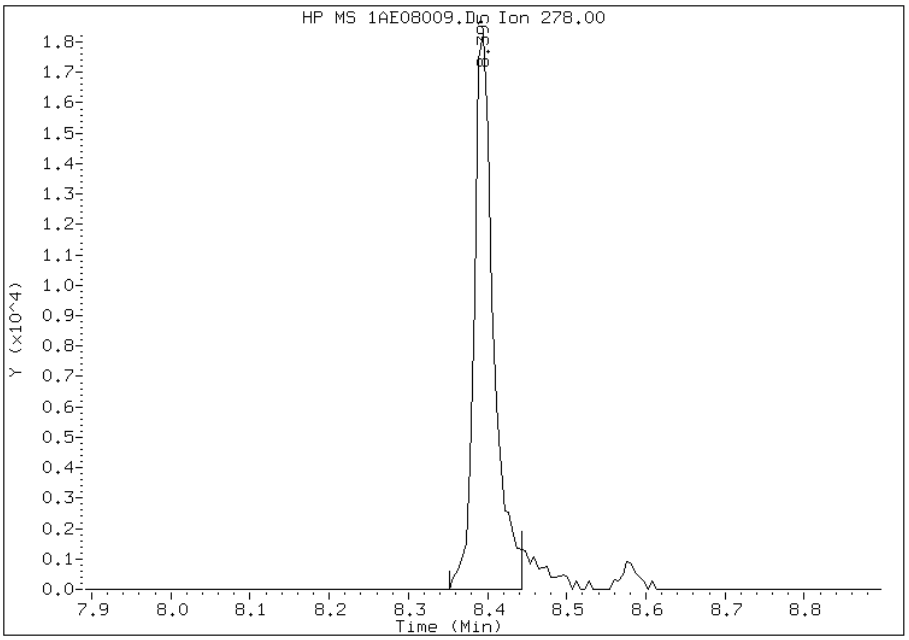
Processing Integration Results

RT: 8.39

Response: 31277

Amount: 2

Conc: 2



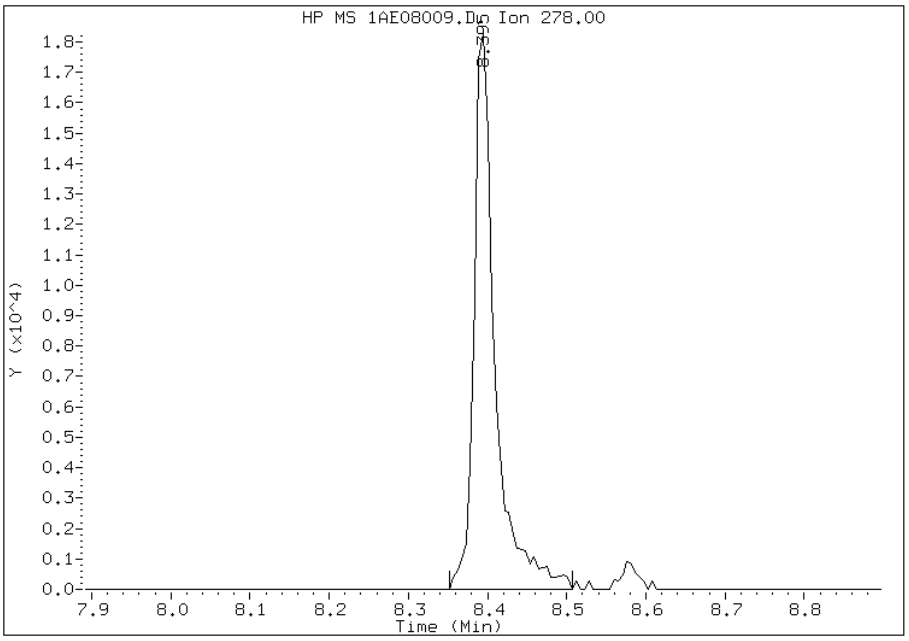
Manual Integration Results

RT: 8.39

Response: 33651

Amount: 2

Conc: 2



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE08009.D
Inj. Date and Time: 08-MAY-2013 16:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

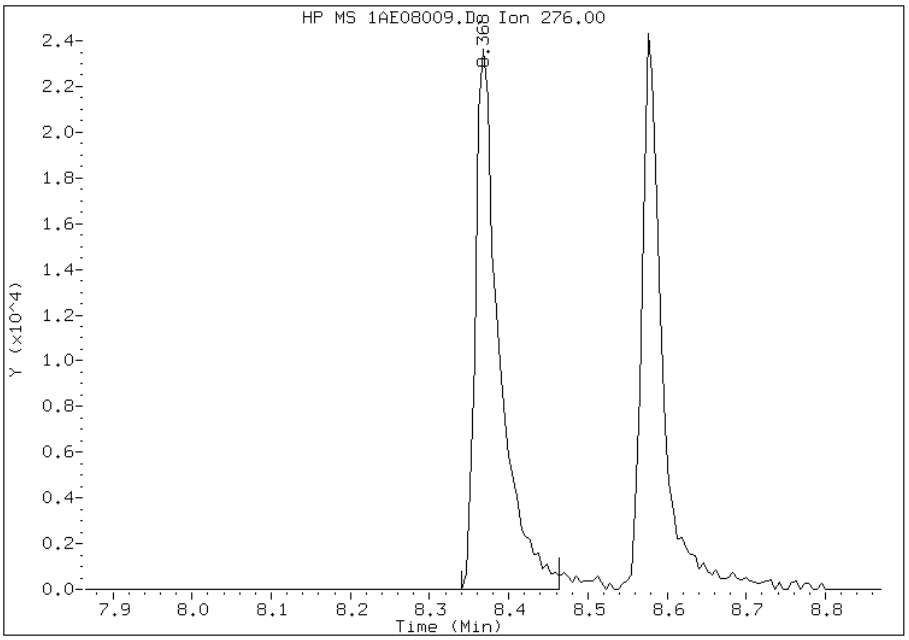
Processing Integration Results

RT: 8.37

Response: 49516

Amount: 3

Conc: 3



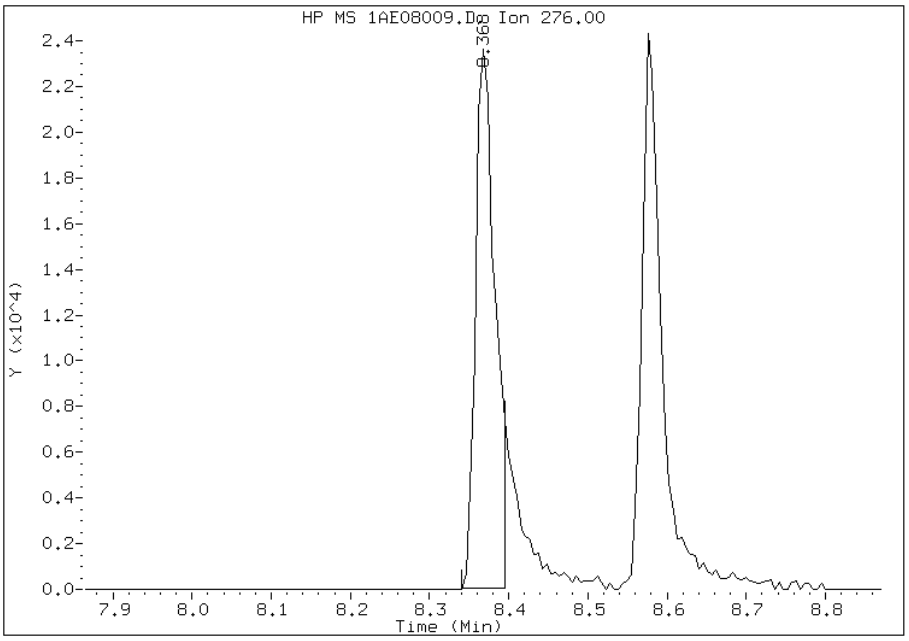
Manual Integration Results

RT: 8.37

Response: 40131

Amount: 2

Conc: 3



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89896-1

SDG No.: 68089896-1

Client Sample ID: CV0731A-CS-SP MSD | Lab Sample ID: 680-89896-4 MSD

Matrix: Solid | Lab File ID: 1AE06028.D

Analysis Method: 8270C LL | Date Collected: 04/29/2013 13:22

Extract. Method: 3546 | Date Extracted: 05/03/2013 09:41

Sample wt/vol: 14.96(g) | Date Analyzed: 05/06/2013 17:42

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

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

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	3660		490	97
208-96-8	Acenaphthylene	4220		190	24
120-12-7	Anthracene	12100		41	20
56-55-3	Benzo[a]anthracene	23900		39	19
50-32-8	Benzo[a]pyrene	20800		51	25
205-99-2	Benzo[b]fluoranthene	29800		59	30
191-24-2	Benzo[g,h,i]perylene	14300		97	21
207-08-9	Benzo[k]fluoranthene	8670		39	18
218-01-9	Chrysene	21200		44	22
53-70-3	Dibenz(a,h)anthracene	5620		97	20
206-44-0	Fluoranthene	57400		97	19
86-73-7	Fluorene	7540		97	20
193-39-5	Indeno[1,2,3-cd]pyrene	13900		97	35
90-12-0	1-Methylnaphthalene	3090		190	21
91-57-6	2-Methylnaphthalene	4130		190	35
91-20-3	Naphthalene	14700		190	21
85-01-8	Phenanthrene	63500		39	19
129-00-0	Pyrene	42300		97	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06028.D
Lab Smp Id: 680-89896-a-4-c msd
Inj Date : 06-MAY-2013 17:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89896-a-4-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 28 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	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	2.552	2.544	(1.000)	1391858	40.0000	
* 6	Acenaphthene-d10	164	3.577	3.575	(1.000)	702284	40.0000	
* 10	Phenanthrene-d10	188	4.534	4.521	(1.000)	1075784	40.0000	
$ 14	o-Terphenyl	230	4.822	4.820	(1.064)	21281	1.38217	369.5639
* 18	Chrysene-d12	240	6.564	6.535	(1.000)	1026506	40.0000	(H)
* 23	Perylene-d12	264	7.659	7.630	(1.000)	1339583	40.0000	(H)
2	Naphthalene	128	2.562	2.555	(1.004)	1480782	45.1773	12079.5034(R)
3	2-Methylnaphthalene	141	2.963	2.961	(1.161)	211729	12.7105	3398.5310(R)
4	1-Methylnaphthalene	142	3.022	3.014	(1.184)	190055	9.51883	2545.1419(R)
5	Acenaphthylene	152	3.486	3.484	(0.975)	428865	12.9961	3474.8826(R)
7	Acenaphthene	154	3.593	3.591	(1.004)	213587	11.2704	3013.4862(R)
9	Fluorene	166	3.909	3.901	(1.093)	501824	23.2360	6212.8375(R)
11	Phenanthrene	178	4.566	4.537	(1.007)	5217279	195.758	52341.7079(AR)
12	Anthracene	178	4.587	4.569	(1.012)	1057705	37.2560	9961.4980(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.715	4.702	(1.040)	822165	32.2088	8611.9888(R)
15 Fluoranthene	202	5.436	5.397	(1.199)	5417834	176.704	47247.1899(AR)
16 Pyrene	202	5.597	5.562	(0.853)	4301391	130.362	34856.0728(AR)
17 Benzo(a)anthracene	228	6.558	6.524	(0.999)	2122705	73.5792	19673.5940(ARH)
19 Chrysene	228	6.590	6.551	(1.004)	2118901	65.2781	17454.0395(ARH)
20 Benzo(b)fluoranthene	252	7.392	7.347	(0.965)	3251555	91.8326	24554.1621(ARM)
21 Benzo(k)fluoranthene	252	7.402	7.368	(0.967)	1173495	26.7153	7143.1278(QRM)
22 Benzo(a)pyrene	252	7.621	7.576	(0.995)	2329820	64.0707	17131.2120(ARH)
24 Indeno(1,2,3-cd)pyrene	276	8.444	8.388	(1.103)	1305652	42.8600	11459.9011(RMH)
25 Dibenzo(a,h)anthracene	278	8.455	8.414	(1.104)	540578	17.3115	4628.7392(RH)
26 Benzo(g,h,i)perylene	276	8.674	8.602	(1.133)	1447097	44.1748	11811.4537(RH)

QC Flag Legend

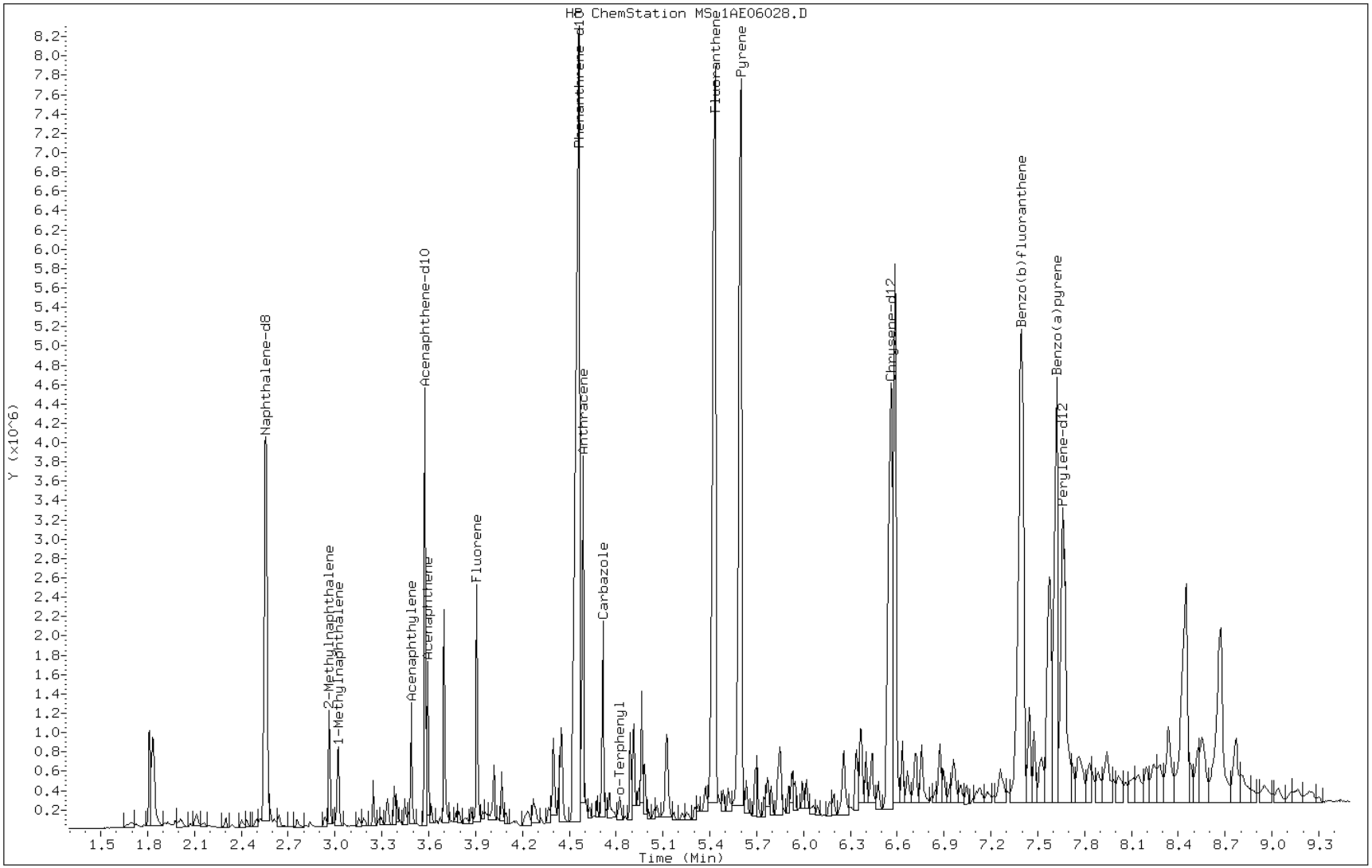
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE06028.D

Date: 06-MAY-2013 17:42

Client ID: Instrument: BSMA5973.i

Sample Info: 680-89896-a-4-c msd Operator: SCC



Manual Integration Report

Data File: 1AE06028.D
Inj. Date and Time: 06-MAY-2013 17:42
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

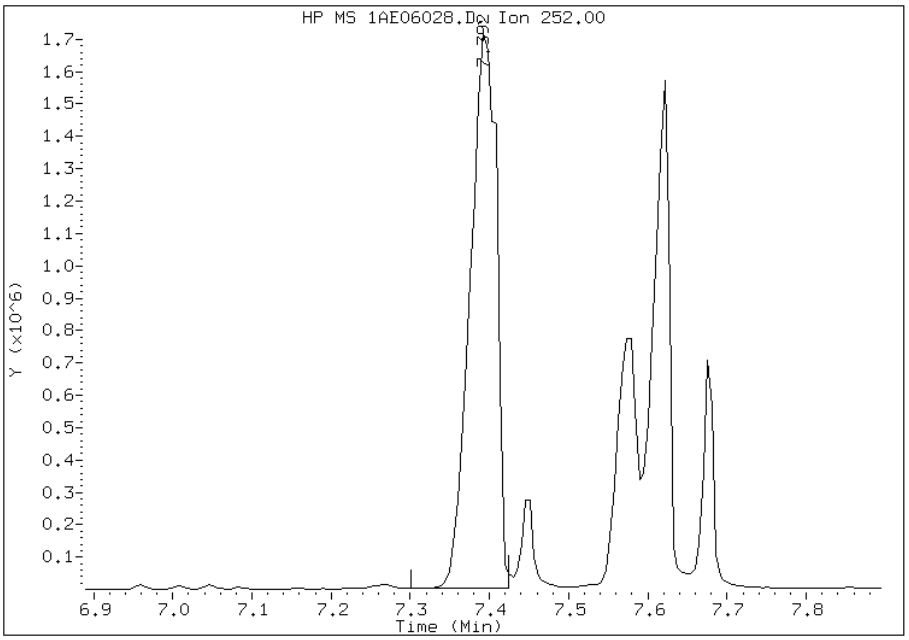
Processing Integration Results

RT: 7.39

Response: 3952501

Amount: 112

Conc: 29847



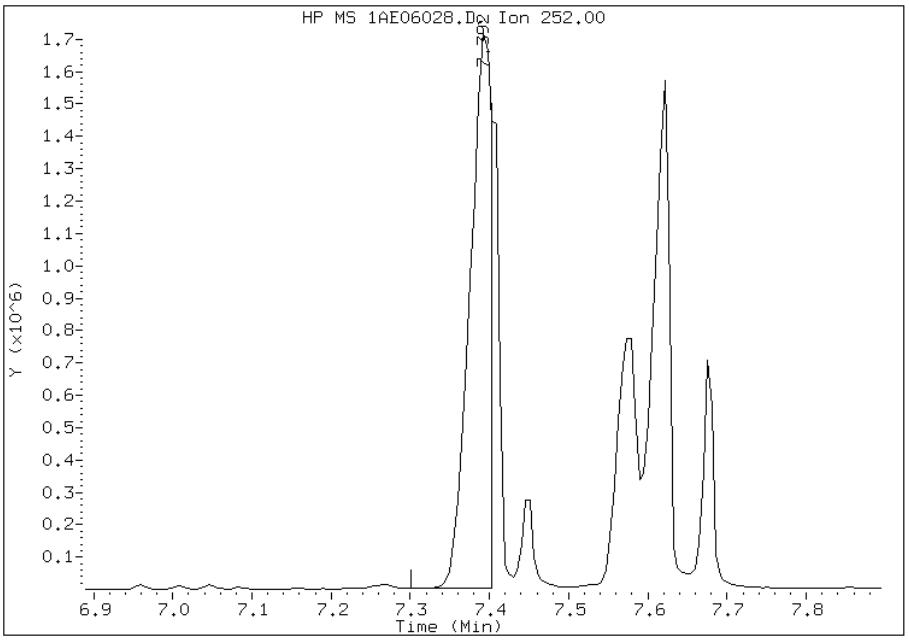
Manual Integration Results

RT: 7.39

Response: 3251555

Amount: 92

Conc: 24554



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:15
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06028.D
Inj. Date and Time: 06-MAY-2013 17:42
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

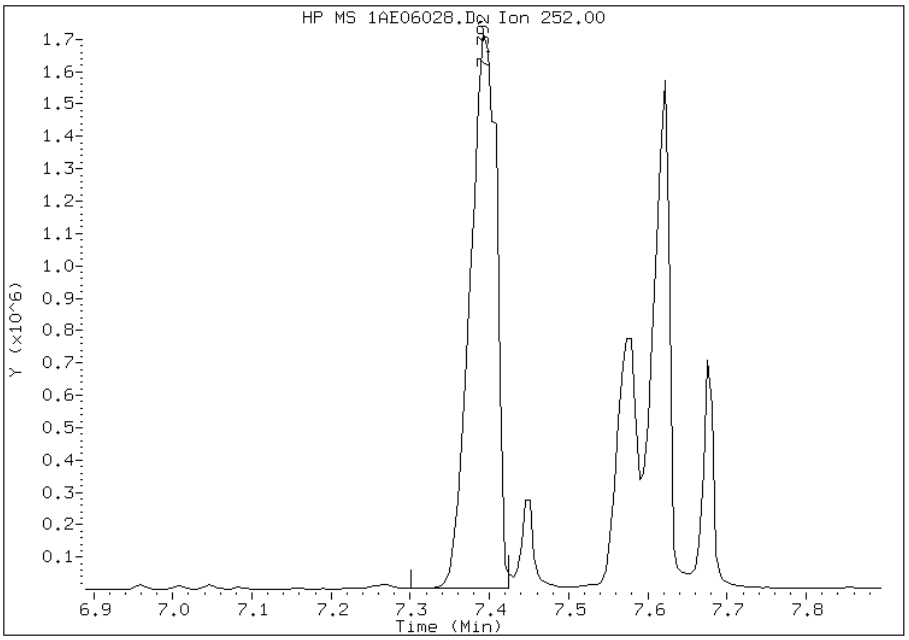
Processing Integration Results

RT: 7.39

Response: 3951355

Amount: 90

Conc: 24052



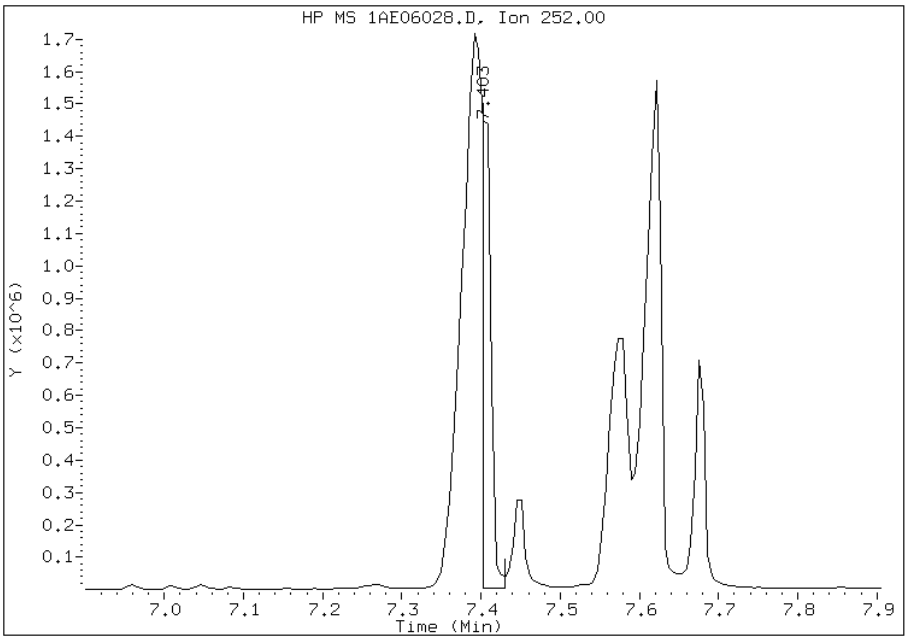
Manual Integration Results

RT: 7.40

Response: 1173495

Amount: 27

Conc: 7143



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06028.D
Inj. Date and Time: 06-MAY-2013 17:42
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

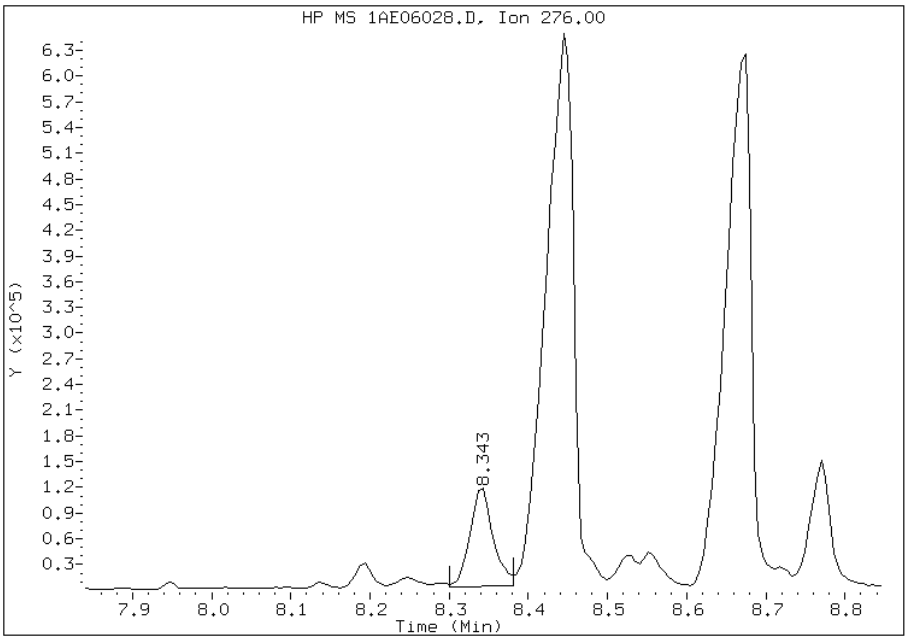
Processing Integration Results

RT: 8.34

Response: 232047

Amount: 8

Conc: 2037



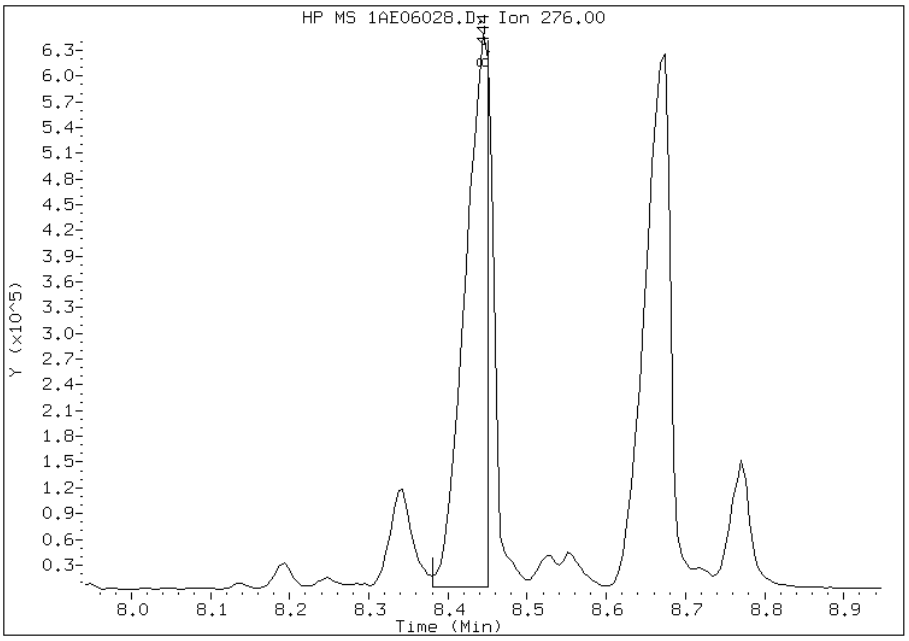
Manual Integration Results

RT: 8.44

Response: 1305652

Amount: 43

Conc: 11460



Manually Integrated By: cantins
Modification Date: 08-May-2013 17:14
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Start Date: 04/26/2013 09:20

Analysis Batch Number: 136892 End Date: 04/26/2013 19:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/26/2013 09:20	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 09:35	1		DB-5MS 250(um)
DFTPP 660-136892/2		04/26/2013 09:50	1	1AD26002.D	DB-5MS 250(um)
IC 660-136892/3		04/26/2013 10:03	1	1AD26003.D	DB-5MS 250(um)
IC 660-136892/4		04/26/2013 10:18	1	1AD26004.D	DB-5MS 250(um)
IC 660-136892/5		04/26/2013 10:33	1	1AD26005.D	DB-5MS 250(um)
IC 660-136892/6		04/26/2013 10:48	1	1AD26006.D	DB-5MS 250(um)
ICIS 660-136892/7		04/26/2013 11:03	1	1AD26007.D	DB-5MS 250(um)
IC 660-136892/8		04/26/2013 11:19	1	1AD26008.D	DB-5MS 250(um)
IC 660-136892/9		04/26/2013 11:34	1	1AD26009.D	DB-5MS 250(um)
ICV 660-136892/10		04/26/2013 11:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 13:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 14:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 14:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 14:34	4		DB-5MS 250(um)
ZZZZZ		04/26/2013 14:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 15:04	4		DB-5MS 250(um)
ZZZZZ		04/26/2013 15:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 15:34	4		DB-5MS 250(um)
ZZZZZ		04/26/2013 15:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 16:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 16:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 16:34	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 16:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 17:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 17:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 17:34	4		DB-5MS 250(um)
ZZZZZ		04/26/2013 17:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 18:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 18:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 18:34	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 18:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 19:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 19:35	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Start Date: 05/06/2013 09:41

Analysis Batch Number: 137156 End Date: 05/06/2013 21:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/06/2013 09:41	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 09:56	1		DB-5MS 250(um)
DFTPP 660-137156/2		05/06/2013 10:11	1	1AE06002.D	DB-5MS 250(um)
ICIS 660-137156/3		05/06/2013 10:24	1	1AE06003.D	DB-5MS 250(um)
IC 660-137156/4		05/06/2013 10:40	1	1AE06004.D	DB-5MS 250(um)
IC 660-137156/5		05/06/2013 10:56	1	1AE06005.D	DB-5MS 250(um)
IC 660-137156/6		05/06/2013 11:11	1	1AE06006.D	DB-5MS 250(um)
IC 660-137156/7		05/06/2013 11:26	1	1AE06007.D	DB-5MS 250(um)
IC 660-137156/8		05/06/2013 11:41	1	1AE06008.D	DB-5MS 250(um)
IC 660-137156/9		05/06/2013 11:56	1	1AE06009.D	DB-5MS 250(um)
ICV 660-137156/10		05/06/2013 12:11	1	1AE06010.D	DB-5MS 250(um)
MB 660-137098/1-A		05/06/2013 13:22	1	1AE06011.D	DB-5MS 250(um)
LCS 660-137098/2-A		05/06/2013 13:37	1	1AE06012.D	DB-5MS 250(um)
680-89896-1	CV0727A-CS-SP	05/06/2013 13:52	1	1AE06013.D	DB-5MS 250(um)
680-89896-2	CV0728A-CS-SP	05/06/2013 14:07	1	1AE06014.D	DB-5MS 250(um)
680-89896-3	CV0728B-CS-SP	05/06/2013 14:22	1	1AE06015.D	DB-5MS 250(um)
680-89896-4	CV0731A-CS-SP	05/06/2013 14:37	4	1AE06016.D	DB-5MS 250(um)
ZZZZZ		05/06/2013 14:52	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 15:08	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 15:24	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 15:39	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 15:54	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 16:25	4		DB-5MS 250(um)
ZZZZZ		05/06/2013 16:41	20		DB-5MS 250(um)
ZZZZZ		05/06/2013 16:56	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 17:11	1		DB-5MS 250(um)
680-89896-4 MS	CV0731A-CS-SP MS	05/06/2013 17:26	4	1AE06027.D	DB-5MS 250(um)
680-89896-4 MSD	CV0731A-CS-SP MSD	05/06/2013 17:42	4	1AE06028.D	DB-5MS 250(um)
680-89896-5	CV0731B-CS-SP	05/06/2013 17:57	1	1AE06029.D	DB-5MS 250(um)
680-89896-6	CV0662A-CS-SP	05/06/2013 18:12	1	1AE06030.D	DB-5MS 250(um)
680-89896-7	CV0670A-CS-SP	05/06/2013 18:27	4	1AE06031.D	DB-5MS 250(um)
680-89896-8	CV0670B-CS-SP	05/06/2013 18:42	1	1AE06032.D	DB-5MS 250(um)
680-89896-9	CV0670C-CS-SP	05/06/2013 18:57	4	1AE06033.D	DB-5MS 250(um)
680-89896-10	CV0670D-CS-SP	05/06/2013 19:12	1	1AE06034.D	DB-5MS 250(um)
680-89896-11	CV0670E-CS-SP	05/06/2013 19:27	1	1AE06035.D	DB-5MS 250(um)
680-89896-12	CV0466A-CS-SP	05/06/2013 19:43	1	1AE06036.D	DB-5MS 250(um)
680-89896-13	CV0466B-CS-SP	05/06/2013 19:58	1	1AE06037.D	DB-5MS 250(um)
680-89896-14	CV0963A-CS-SP	05/06/2013 20:12	1	1AE06038.D	DB-5MS 250(um)
680-89896-15	CV0964A-CS-SP	05/06/2013 20:27	4	1AE06039.D	DB-5MS 250(um)
680-89896-16	CV0964B-CS-SP	05/06/2013 20:43	1	1AE06040.D	DB-5MS 250(um)
680-89896-17	CV0988A-CS	05/06/2013 20:58	1	1AE06041.D	DB-5MS 250(um)
680-89896-18	CV0988A-CSD	05/06/2013 21:13	1	1AE06042.D	DB-5MS 250(um)
680-89896-19	CV0988B-CS	05/06/2013 21:28	1	1AE06043.D	DB-5MS 250(um)
ZZZZZ		05/06/2013 21:43	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: BSMA5973 Start Date: 05/08/2013 13:41

Analysis Batch Number: 137292 End Date: 05/08/2013 18:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/08/2013 13:41	1		DB-5MS 250(um)
ZZZZZ		05/08/2013 13:56	1		DB-5MS 250(um)
DFTPP 660-137292/2		05/08/2013 14:11	1	1AE08002.D	DB-5MS 250(um)
CCVIS 660-137292/3		05/08/2013 14:31	1	1AE08003.D	DB-5MS 250(um)
ZZZZZ		05/08/2013 14:49	1		DB-5MS 250(um)
MB 660-137196/1-A		05/08/2013 15:16	1	1AE08005.D	DB-5MS 250(um)
LCS 660-137196/2-A		05/08/2013 15:30	1	1AE08006.D	DB-5MS 250(um)
LCSD 660-137196/3-A		05/08/2013 15:45	1	1AE08007.D	DB-5MS 250(um)
680-89896-23	050113-RB-Bowls&Spoons	05/08/2013 16:00	1	1AE08008.D	DB-5MS 250(um)
680-89896-23 MS	050113-RB-Bowls&Spoons MS	05/08/2013 16:16	1	1AE08009.D	DB-5MS 250(um)
ZZZZZ		05/08/2013 17:58	1		DB-5MS 250(um)
ZZZZZ		05/08/2013 18:13	1		DB-5MS 250(um)
ZZZZZ		05/08/2013 18:28	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Batch Number: 137098 Batch Start Date: 05/03/13 09:41 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 05/03/13 16:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00180		
MB 660-137098/1		3546, 8270C LL		14.98 g	1 mL		1 mL		
LCS 660-137098/2		3546, 8270C LL		14.95 g	1 mL	1 mL	1 mL		
680-89896-A-1	CV0727A-CS-SP	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-89896-A-2	CV0728A-CS-SP	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-89896-A-3	CV0728B-CS-SP	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-89896-A-4	CV0731A-CS-SP	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-89896-A-4 MS	CV0731A-CS-SP	3546, 8270C LL	T	14.98 g	1 mL	1 mL	1 mL		
680-89896-A-4 MSD	CV0731A-CS-SP	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-89896-A-5	CV0731B-CS-SP	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-89896-A-6	CV0662A-CS-SP	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-89896-A-7	CV0670A-CS-SP	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-89896-A-8	CV0670B-CS-SP	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-89896-A-9	CV0670C-CS-SP	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-89896-A-10	CV0670D-CS-SP	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-89896-A-11	CV0670E-CS-SP	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-89896-A-12	CV0466A-CS-SP	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-89896-A-13	CV0466B-CS-SP	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-89896-A-14	CV0963A-CS-SP	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-89896-A-15	CV0964A-CS-SP	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-89896-A-16	CV0964B-CS-SP	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-89896-A-17	CV0988A-CS	3546, 8270C LL	T	15.14 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.: 680-89896-1

SDG No.: 68089896-1

Batch Number: 137098 Batch Start Date: 05/03/13 09:41 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 05/03/13 16:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00180		
680-89896-A-18	CV0988A-CSD	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-89896-A-19	CV0988B-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		

Batch Notes	
Acetone Lot #	ID:EX-Aceton bot_00052
Balance ID	b001
Batch Comment	none
Person's name who did the concentration	Ryan Nolan
Exchange Solvent Lot #	ex-mc cycl 56
Exchange Solvent Name	dcm
Final Concentrator Volume	1ml mL
MeCL2 Lot #	ID:ex-mccycl_00056(1535492)
MeCl2/Acetone Lot #	ID:DCM/ACETON_00076(1541538)
Microwave Start Time	12:20 5/3/13
Microwave Stop Time	12:55 5/3/13
MS Lot Number	680-89896-4ms
Na2SO4 Lot Number	ID:EX-NaSO4a_00066
Ottawa Sand Lot #	ID:ottawa sand_00017 (1544031)
Person's name who did the prep	Ryan Nolan
SOP Number	tp-ex-014
Person who witnessed spiking	Abraham
Surrogate Lot Number	ID:EXLLSURINT_00180 (1546030)
Water Bath ID	1-4
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.: 680-89896-1

SDG No.: 68089896-1

Batch Number: 137196 Batch Start Date: 05/07/13 14:43 Batch Analyst: Cerome, Saurel

Batch Method: 3520C Batch End Date: 05/08/13 09:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	EX-625LVI SPK 00022	EXLLSURINT 00181
MB 660-137196/1		3520C, 8270C LL		1000 mL	1 mL	8	<2		1 mL
LCS 660-137196/2		3520C, 8270C LL		1000 mL	1 mL	8	<2	1 mL	1 mL
LCSD 660-137196/3		3520C, 8270C LL		1000 mL	1 mL	8	<2	1 mL	1 mL
680-89896-A-23	050113-RB-Bowls& Spoons	3520C, 8270C LL	T	900 mL	1 mL	8	<2		1 mL
680-89896-B-23 MS	050113-RB-Bowls& Spoons	3520C, 8270C LL	T	950 mL	1 mL	8	<2	1 mL	1 mL

Batch Notes	
Acid used for pH adjustment	10h2s04
Acid used for pH adjust Lot #	EX 10H2S04 _6
Batch Comment	RUSH
Concentration End Time	9.00/5/8/13
Concentration Start Time	7.40/5/8/13
Person's name who did the concentration	AG
Time the first extraction ended 24hr	20.00/5/7/13
Time the first extraction started 24 hr	16.00/5/7/13
pH Paper Lot Number	HC 273036
Prep Solvent Lot #	EX MC CYCL _56
Prep Solvent Name	DCM
Prep Solvent Volume Used	210 mL
Person's name who did the prep	SAUREL
Person's name who witnessed reagent drop	AG
Sufficient volume for MS/MSD?	MS ONLY
Water Bath ID	TRBOVAP2#1/
Water Bath Temperature	40 C Celsius

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: 680-89896-1

SDG No.: 68089896-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0727A-CS-SP	680-89896-1
CV0728A-CS-SP	680-89896-2
CV0728B-CS-SP	680-89896-3
CV0731A-CS-SP	680-89896-4
CV0731B-CS-SP	680-89896-5
CV0662A-CS-SP	680-89896-6
CV0670A-CS-SP	680-89896-7
CV0670B-CS-SP	680-89896-8
CV0670C-CS-SP	680-89896-9
CV0670D-CS-SP	680-89896-10
CV0670E-CS-SP	680-89896-11
CV0466A-CS-SP	680-89896-12
CV0466B-CS-SP	680-89896-13
CV0963A-CS-SP	680-89896-14
CV0964A-CS-SP	680-89896-15
CV0964B-CS-SP	680-89896-16
CV0988A-CS	680-89896-17
CV0988A-CSD	680-89896-18
CV0988B-CS	680-89896-19

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89896-1

SDG Number: 68089896-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89896-1

SDG Number: 68089896-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/03/2013 06:17 End Date: 05/03/2013 06:17

Lab Sample ID	D / F	Type	Time	Analytes																				
				Moist																				
ZZZZZZ			06:17																					
ZZZZZZ			06:17																					
ZZZZZZ			06:17																					
ZZZZZZ			06:17																					
ZZZZZZ			06:17																					
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ZZZZZZ			06:17																					
ZZZZZZ			06:17																					
680-89896-1	1	T	06:17	X																				
680-89896-2	1	T	06:17	X																				
680-89896-3	1	T	06:17	X																				
680-89896-4	1	T	06:17	X																				
680-89896-4 MS	1	T	06:17	X																				
680-89896-4 MSD	1	T	06:17	X																				
680-89896-5	1	T	06:17	X																				
680-89896-6	1	T	06:17	X																				
680-89896-8	1	T	06:17	X																				
680-89896-9	1	T	06:17	X																				
680-89896-7	1	T	06:17	X																				
680-89896-11	1	T	06:17	X																				
680-89896-10	1	T	06:17	X																				
680-89896-12	1	T	06:17	X																				
680-89896-13	1	T	06:17	X																				
680-89896-14	1	T	06:17	X																				
680-89896-15	1	T	06:17	X																				
680-89896-16	1	T	06:17	X																				
680-89896-17	1	T	06:17	X																				
680-89896-18	1	T	06:17	X																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/03/2013 06:17 End Date: 05/03/2013 06:17

Lab Sample ID	D / F	Type	Time	Analytes																			
				Moist																			
680-89896-19	1	T	06:17	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89896-1

SDG No.: 68089896-1

Batch Number: 137086 Batch Start Date: 05/03/13 06:17 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89896-A-1	CV0727A-CS-SP	Moisture	T	21	0 g	4.82 g	3.71 g		
680-89896-A-2	CV0728A-CS-SP	Moisture	T	22	0 g	4.44 g	3.45 g		
680-89896-A-3	CV0728B-CS-SP	Moisture	T	23	0 g	4.61 g	3.41 g		
680-89896-A-4	CV0731A-CS-SP	Moisture	T	24	0 g	4.37 g	3.60 g		
680-89896-A-4 MS	CV0731A-CS-SP	Moisture	T	24	0 g	4.37 g	3.60 g		
680-89896-A-4 MSD	CV0731A-CS-SP	Moisture	T	24	0 g	4.37 g	3.60 g		
680-89896-A-5	CV0731B-CS-SP	Moisture	T	25	0 g	5.23 g	4.17 g		
680-89896-A-6	CV0662A-CS-SP	Moisture	T	26	0 g	5.07 g	4.26 g		
680-89896-A-8	CV0670B-CS-SP	Moisture	T	27	0 g	5.92 g	5.02 g		
680-89896-A-9	CV0670C-CS-SP	Moisture	T	28	0 g	4.31 g	3.73 g		
680-89896-A-7	CV0670A-CS-SP	Moisture	T	29	0 g	4.90 g	4.07 g		
680-89896-A-11	CV0670E-CS-SP	Moisture	T	30	0 g	4.93 g	3.61 g		
680-89896-A-10	CV0670D-CS-SP	Moisture	T	31	0 g	4.62 g	3.91 g		
680-89896-A-12	CV0466A-CS-SP	Moisture	T	32	0 g	4.53 g	3.43 g		
680-89896-A-13	CV0466B-CS-SP	Moisture	T	33	0 g	4.35 g	3.30 g		
680-89896-A-14	CV0963A-CS-SP	Moisture	T	34	0 g	4.52 g	3.53 g		
680-89896-A-15	CV0964A-CS-SP	Moisture	T	35	0 g	4.77 g	3.87 g		
680-89896-A-16	CV0964B-CS-SP	Moisture	T	36	0 g	4.60 g	3.97 g		
680-89896-A-17	CV0988A-CS	Moisture	T	37	0 g	4.38 g	3.38 g		
680-89896-A-18	CV0988A-CSD	Moisture	T	38	0 g	4.71 g	3.65 g		
680-89896-A-19	CV0988B-CS	Moisture	T	39	0 g	4.72 g	4.13 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	5.3.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 64698

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
Test Am Tampa
Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 200519R-1356
PROJECT LOCATION (STATE): AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 2

STANDARD REPORT DELIVERY ○ 10 Calendar Days
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LL PAH	Remarks	NUMBER OF CONTAINERS SUBMITTED	REMARKS
		PRESERVATIVE									
4-29-13	1424	CV0727A-CS-SP	C		X			X			
	1351	CV0728A-CS-SP	C		X			X			
	1357	CV0728B-CS-SP	C		X			X			
	1322	CV0731A-CS-SP	C		X			X	X		
	1333	CV0731B-CS-SP	C		X			X			
4-30-13	1035	CV0669A-CS-SP	C		X			X	X		
	0910	CV0670A-CS-SP	C		X			X			
	0915	CV0670B-CS-SP	C		X			X			
	0936	CV0670C-CS-SP	C		X			X			
	0948	CV0670D-CS-SP	C		X			X			
	1015	CV0670E-CS-SP	C		X			X			
	1410	CV0466A-CS-SP	C		X			X			

Loc: 680
89896

680-89896 Login
PM: Harvey, Lisa
Company: Oneida Total Integrated Enterprise

680-89896-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-1-13	13:30		5/2/13	1730			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5-2-13	1030						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	05/03/13	0713	YES ○ NO ○		680-89896	1.3 CV-07 (2.0°C - Savannah)

TAL8240-680 (1008)

Serial Number 64699

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: Test Am Tampa
Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005148-1356
PROJECT LOCATION (STATE): AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 2

STANDARD REPORT DELIVERY: 10 Calender Days
DATE DUE:

EXPEDITED REPORT DELIVERY (SURCHARGE): ○
DATE DUE:

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 2L PAH	REQUIRED ANALYSIS: RCRA 8 Metals	REMARKS
		PRESERVATIVE								
4-30-13	1420	CV0466B-CS-SP	C		X			X		
	1240	CV0963A-CS-SP	C		X			X		
	1355	CV0964A-CS-SP	C		X			X		
	1350	CV0964B-CS-SP	C		X			X		
	1310	CV0988A-CS	C		X			X		
	1310	CV0988A-CSD	C		X			X	X	
	1300	CV0988B-CS	C		X			X		
4-30-13	1035	CV0662a-CS-SP (sieve)	C		X				X	
4-29-13	1322	CV0731A-CS-SP (sieve)	C		X				X	
4-30-13	1310	CV0988A-CS (sieve)	C		X				X	
5-1-13	0930	050113-RB-Bowls + Spoons		X				X	X	

680-89896-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-1-13	1330		5/2/13	1730			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5-2-13	1030						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	05/03/13	07/3	YES ○ NO ○		680-89896	

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-1
SDG Number: 68089896-1

Login Number: 89896
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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: 680-89896-1
TestAmerica Sample Delivery Group: 68089896-1
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:
5/14/2013 3:47:04 PM
Bernard Kirkland, Project Manager I
(912)354-7858 e.3238
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey, Project Manager II
lisa.harvey@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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: 680-89896-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89896-1

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

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

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

RECEIPT

The samples were received on 05/02/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.3 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0727A-CS-SP (680-89896-1), CV0728A-CS-SP (680-89896-2), CV0728B-CS-SP (680-89896-3), CV0731A-CS-SP (680-89896-4), CV0731B-CS-SP (680-89896-5), CV0662A-CS-SP (680-89896-6), CV0670A-CS-SP (680-89896-7), CV0670B-CS-SP (680-89896-8), CV0670C-CS-SP (680-89896-9), CV0670D-CS-SP (680-89896-10), CV0670E-CS-SP (680-89896-11), CV0466A-CS-SP (680-89896-12), CV0466B-CS-SP (680-89896-13), CV0963A-CS-SP (680-89896-14), CV0964A-CS-SP (680-89896-15), CV0964B-CS-SP (680-89896-16), CV0988A-CS (680-89896-17), CV0988A-CSD (680-89896-18) and CV0988B-CS (680-89896-19) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/03/2013 and analyzed on 05/06/2013.

Samples CV0731A-CS-SP (680-89896-4)[4X], CV0670A-CS-SP (680-89896-7)[4X], CV0670C-CS-SP (680-89896-9)[4X] and CV0964A-CS-SP (680-89896-15)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0731A-CS-SPMS (680-89896-4) in batch 660-137156. Several analytes exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)-Water

Sample 050113-RB-Bowls&Spoons (680-89896-23) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/07/2013 and analyzed on 05/08/2013.

Benzo[g,h,i]perylene recovered outside the recovery criteria for the MS of sample 050113-RB-Bowls&SpoonsMS (680-89896-23) in batch 660-137292.

No other difficulties were encountered during the semivolatiles analysis.

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: 680-89896-1
SDG: 68089896-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89896-1	CV0727A-CS-SP	Solid	04/29/13 14:24	05/02/13 10:30
680-89896-2	CV0728A-CS-SP	Solid	04/29/13 13:51	05/02/13 10:30
680-89896-3	CV0728B-CS-SP	Solid	04/29/13 13:57	05/02/13 10:30
680-89896-4	CV0731A-CS-SP	Solid	04/29/13 13:22	05/02/13 10:30
680-89896-5	CV0731B-CS-SP	Solid	04/29/13 13:33	05/02/13 10:30
680-89896-6	CV0662A-CS-SP	Solid	04/30/13 10:35	05/02/13 10:30
680-89896-7	CV0670A-CS-SP	Solid	04/30/13 09:10	05/02/13 10:30
680-89896-8	CV0670B-CS-SP	Solid	04/30/13 09:15	05/02/13 10:30
680-89896-9	CV0670C-CS-SP	Solid	04/30/13 09:36	05/02/13 10:30
680-89896-10	CV0670D-CS-SP	Solid	04/30/13 09:48	05/02/13 10:30
680-89896-11	CV0670E-CS-SP	Solid	04/30/13 10:15	05/02/13 10:30
680-89896-12	CV0466A-CS-SP	Solid	04/30/13 14:10	05/02/13 10:30
680-89896-13	CV0466B-CS-SP	Solid	04/30/13 14:20	05/02/13 10:30
680-89896-14	CV0963A-CS-SP	Solid	04/30/13 12:40	05/02/13 10:30
680-89896-15	CV0964A-CS-SP	Solid	04/30/13 13:35	05/02/13 10:30
680-89896-16	CV0964B-CS-SP	Solid	04/30/13 13:50	05/02/13 10:30
680-89896-17	CV0988A-CS	Solid	04/30/13 13:10	05/02/13 10:30
680-89896-18	CV0988A-CSD	Solid	04/30/13 13:10	05/02/13 10:30
680-89896-19	CV0988B-CS	Solid	04/30/13 13:00	05/02/13 10:30
680-89896-23	050113-RB-Bowls&Spoons	Water	05/01/13 09:30	05/02/13 10:30

Method Summary

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

TestAmerica Job ID: 680-89896-1
SDG: 68089896-1

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

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
E	Result exceeded calibration range.

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

TestAmerica Job ID: 680-89896-1
SDG: 68089896-1

Client Sample ID: CV0727A-CS-SP

Lab Sample ID: 680-89896-1

Date Collected: 04/29/13 14:24
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 77.0

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	☼	05/03/13 09:41	05/06/13 13:52	1
Acenaphthylene	**25**	**J**	52	6.5	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Anthracene	**25**		11	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Benzo[a]anthracene	**91**		10	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Benzo[a]pyrene	**89**		13	6.7	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Benzo[b]fluoranthene	**130**		16	7.9	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Benzo[g,h,i]perylene	**86**		26	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Benzo[k]fluoranthene	**62**		10	4.7	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Chrysene	**110**		12	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Dibenz(a,h)anthracene	**19**	**J**	26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Fluoranthene	**110**		26	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Fluorene	**8.0**	**J**	26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Indeno[1,2,3-cd]pyrene	**76**		26	9.2	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
1-Methylnaphthalene	**54**		52	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
2-Methylnaphthalene	**74**		52	9.2	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Naphthalene	**64**		52	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Phenanthrene	**88**		10	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1
Pyrene	**120**		26	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*30 - 130*	*05/03/13 09:41*	*05/06/13 13:52*	*1*

Client Sample ID: CV0728A-CS-SP

Lab Sample ID: 680-89896-2

Date Collected: 04/29/13 13:51
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 77.7

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	☼	05/03/13 09:41	05/06/13 14:07	1
Acenaphthylene	**8.7**	**J**	52	6.4	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Anthracene	**16**		11	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Benzo[a]anthracene	**57**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Benzo[a]pyrene	**52**		13	6.7	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Benzo[b]fluoranthene	**84**		16	7.9	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Benzo[g,h,i]perylene	**55**		26	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Benzo[k]fluoranthene	**31**		10	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Chrysene	**83**		12	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Dibenz(a,h)anthracene	**13**	**J**	26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Fluoranthene	**77**		26	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Fluorene	**6.9**	**J**	26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Indeno[1,2,3-cd]pyrene	**44**		26	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
1-Methylnaphthalene	**53**		52	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
2-Methylnaphthalene	**71**		52	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Naphthalene	**60**		52	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Phenanthrene	**85**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1
Pyrene	**87**		26	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/03/13 09:41*	*05/06/13 14:07*	*1*

Client Sample ID: CV0728B-CS-SP

Lab Sample ID: 680-89896-3

Date Collected: 04/29/13 13:57
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 74.0

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	27	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Acenaphthylene	**9.5**	**J**	54	6.7	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Anthracene	**13**		11	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Benzo[a]anthracene	**42**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Benzo[a]pyrene	**33**		14	7.0	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Benzo[b]fluoranthene	**51**		16	8.2	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Benzo[g,h,i]perylene	**44**		27	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Benzo[k]fluoranthene	**27**		11	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Chrysene	**57**		12	6.1	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Dibenz(a,h)anthracene	**12**	**J**	27	5.5	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Fluoranthene	**53**		27	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Fluorene	**5.8**	**J**	27	5.5	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Indeno[1,2,3-cd]pyrene	**35**		27	9.6	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
1-Methylnaphthalene	**32**	**J**	54	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
2-Methylnaphthalene	**42**	**J**	54	9.6	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Naphthalene	**44**	**J**	54	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Phenanthrene	**56**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1
Pyrene	**56**		27	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*44*		*30 - 130*	*05/03/13 09:41*	*05/06/13 14:22*	*1*

Client Sample ID: CV0731A-CS-SP

Lab Sample ID: 680-89896-4

Date Collected: 04/29/13 13:22
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**97**	**J F**	490	97	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Acenaphthylene	**130**	**J F**	190	24	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Anthracene	**410**	**F**	41	20	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Benzo[a]anthracene	**860**	**F**	39	19	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Benzo[a]pyrene	**680**	**F**	51	25	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Benzo[b]fluoranthene	**840**	**F**	59	30	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Benzo[g,h,i]perylene	**650**	**F**	97	21	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Benzo[k]fluoranthene	**440**	**F**	39	17	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Chrysene	**710**	**F**	44	22	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Dibenz(a,h)anthracene	**170**	**F**	97	20	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Fluoranthene	**1800**	**F**	97	19	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Fluorene	**180**	**F**	97	20	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Indeno[1,2,3-cd]pyrene	**600**	**F**	97	34	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
1-Methylnaphthalene	**140**	**J F**	190	21	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
2-Methylnaphthalene	**190**	**F**	190	34	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Naphthalene	**400**	**F**	190	21	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Phenanthrene	**2200**	**F**	39	19	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4
Pyrene	**1700**	**F**	97	18	ug/Kg	☼	05/03/13 09:41	05/06/13 14:37	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*05/03/13 09:41*	*05/06/13 14:37*	*4*

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

TestAmerica Job ID: 680-89896-1
SDG: 68089896-1

Client Sample ID: CV0731B-CS-SP

Lab Sample ID: 680-89896-5

Date Collected: 04/29/13 13:33
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 79.7

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	25	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Acenaphthylene	**11**	**J**	50	6.3	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Anthracene	**14**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Benzo[a]anthracene	**68**		10	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Benzo[a]pyrene	**46**		13	6.5	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Benzo[b]fluoranthene	**79**		15	7.7	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Benzo[g,h,i]perylene	**47**		25	5.5	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Benzo[k]fluoranthene	**29**		10	4.5	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Chrysene	**78**		11	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Dibenz(a,h)anthracene	**13**	**J**	25	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Fluoranthene	**67**		25	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Fluorene	**6.4**	**J**	25	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Indeno[1,2,3-cd]pyrene	**39**		25	8.9	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
1-Methylnaphthalene	**81**		50	5.5	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
2-Methylnaphthalene	**120**		50	8.9	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Naphthalene	**81**		50	5.5	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Phenanthrene	**87**		10	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1
Pyrene	**72**		25	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*05/03/13 09:41*	*05/06/13 17:57*	*1*

Client Sample ID: CV0662A-CS-SP

Lab Sample ID: 680-89896-6

Date Collected: 04/30/13 10:35
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 84.0

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	☼	05/03/13 09:41	05/06/13 18:12	1
Acenaphthylene	**36**	**J**	48	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Anthracene	**54**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Benzo[a]anthracene	**220**		9.5	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Benzo[a]pyrene	**190**		12	6.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Benzo[b]fluoranthene	**290**		15	7.3	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Benzo[g,h,i]perylene	**150**		24	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Benzo[k]fluoranthene	**120**		9.5	4.3	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Chrysene	**230**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Dibenz(a,h)anthracene	**54**		24	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Fluoranthene	**260**		24	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Fluorene	**15**	**J**	24	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Indeno[1,2,3-cd]pyrene	**160**		24	8.4	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
1-Methylnaphthalene	**37**	**J**	48	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
2-Methylnaphthalene	**53**		48	8.4	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Naphthalene	**67**		48	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Phenanthrene	**160**		9.5	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1
Pyrene	**230**		24	4.4	ug/Kg	☼	05/03/13 09:41	05/06/13 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*05/03/13 09:41*	*05/06/13 18:12*	*1*

Client Sample ID: CV0670A-CS-SP

Lab Sample ID: 680-89896-7

Date Collected: 04/30/13 09:10
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Acenaphthylene	**350**		190	24	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Anthracene	**250**		40	20	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Benzo[a]anthracene	**700**		38	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Benzo[a]pyrene	**580**		50	25	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Benzo[b]fluoranthene	**940**		58	29	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Benzo[g,h,i]perylene	**650**		96	21	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Benzo[k]fluoranthene	**380**		38	17	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Chrysene	**640**		43	22	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Dibenz(a,h)anthracene	**160**		96	20	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Fluoranthene	**910**		96	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Fluorene	**66**	**J**	96	20	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Indeno[1,2,3-cd]pyrene	**660**		96	34	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
1-Methylnaphthalene	**170**	**J**	190	21	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
2-Methylnaphthalene	**280**		190	34	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Naphthalene	**310**		190	21	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Phenanthrene	**810**		38	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4
Pyrene	**750**		96	18	ug/Kg	☼	05/03/13 09:41	05/06/13 18:27	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*05/03/13 09:41*	*05/06/13 18:27*	*4*

Client Sample ID: CV0670B-CS-SP

Lab Sample ID: 680-89896-8

Date Collected: 04/30/13 09:15
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 84.8

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	24	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Acenaphthylene	**75**		47	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Anthracene	**93**		9.9	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Benzo[a]anthracene	**280**		9.5	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Benzo[a]pyrene	**260**		12	6.1	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Benzo[b]fluoranthene	**370**		14	7.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Benzo[g,h,i]perylene	**190**		24	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Benzo[k]fluoranthene	**190**		9.5	4.3	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Chrysene	**260**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Dibenz(a,h)anthracene	**63**		24	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Fluoranthene	**380**		24	4.7	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Fluorene	**20**	**J**	24	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Indeno[1,2,3-cd]pyrene	**190**		24	8.4	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
1-Methylnaphthalene	**56**		47	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
2-Methylnaphthalene	**77**		47	8.4	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Naphthalene	**110**		47	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Phenanthrene	**220**		9.5	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1
Pyrene	**290**		24	4.4	ug/Kg	☼	05/03/13 09:41	05/06/13 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*05/03/13 09:41*	*05/06/13 18:42*	*1*

Client Sample ID: CV0670C-CS-SP

Lab Sample ID: 680-89896-9

Date Collected: 04/30/13 09:36
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	93	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Acenaphthylene	**33**	**J**	190	23	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Anthracene	**110**		39	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Benzo[a]anthracene	**310**		37	18	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Benzo[a]pyrene	**250**		48	24	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Benzo[b]fluoranthene	**350**		57	28	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Benzo[g,h,i]perylene	**180**		93	20	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Benzo[k]fluoranthene	**150**		37	17	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Chrysene	**280**		42	21	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Dibenz(a,h)anthracene	**55**	**J**	93	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Fluoranthene	**470**		93	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Fluorene	**41**	**J**	93	19	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Indeno[1,2,3-cd]pyrene	**170**		93	33	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
1-Methylnaphthalene	**36**	**J**	190	20	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
2-Methylnaphthalene	**56**	**J**	190	33	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Naphthalene	**61**	**J**	190	20	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Phenanthrene	**350**		37	18	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4
Pyrene	**340**		93	17	ug/Kg	☼	05/03/13 09:41	05/06/13 18:57	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*05/03/13 09:41*	*05/06/13 18:57*	*4*

Client Sample ID: CV0670D-CS-SP

Lab Sample ID: 680-89896-10

Date Collected: 04/30/13 09:48
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 84.6

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	24	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Acenaphthylene	**18**	**J**	47	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Anthracene	**42**		9.9	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Benzo[a]anthracene	**160**		9.4	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Benzo[a]pyrene	**150**		12	6.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Benzo[b]fluoranthene	**250**		14	7.2	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Benzo[g,h,i]perylene	**96**		24	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Benzo[k]fluoranthene	**79**		9.4	4.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Chrysene	**180**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Dibenz(a,h)anthracene	**30**		24	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Fluoranthene	**300**		24	4.7	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Fluorene	**15**	**J**	24	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Indeno[1,2,3-cd]pyrene	**95**		24	8.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
1-Methylnaphthalene	**18**	**J**	47	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
2-Methylnaphthalene	**24**	**J**	47	8.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Naphthalene	**29**	**J**	47	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Phenanthrene	**200**		9.4	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1
Pyrene	**230**		24	4.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*05/03/13 09:41*	*05/06/13 19:12*	*1*

Client Sample ID: CV0670E-CS-SP

Lab Sample ID: 680-89896-11

Date Collected: 04/30/13 10:15
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 73.2

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	☼	05/03/13 09:41	05/06/13 19:27	1
Acenaphthylene	**7.9**	**J**	54	6.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Anthracene	**9.4**	**J**	11	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Benzo[a]anthracene	**55**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Benzo[a]pyrene	**43**		14	7.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Benzo[b]fluoranthene	**67**		17	8.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Benzo[g,h,i]perylene	**31**		27	6.0	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Benzo[k]fluoranthene	**27**		11	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Chrysene	**59**		12	6.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Dibenz(a,h)anthracene	**8.4**	**J**	27	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Fluoranthene	**71**		27	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Fluorene	27	U	27	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Indeno[1,2,3-cd]pyrene	**29**		27	9.7	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
1-Methylnaphthalene	**26**	**J**	54	6.0	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
2-Methylnaphthalene	**45**	**J**	54	9.7	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Naphthalene	**35**	**J**	54	6.0	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Phenanthrene	**50**		11	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1
Pyrene	**53**		27	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*		*30 - 130*	*05/03/13 09:41*	*05/06/13 19:27*	*1*

Client Sample ID: CV0466A-CS-SP

Lab Sample ID: 680-89896-12

Date Collected: 04/30/13 14:10
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 75.7

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	27	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Acenaphthylene	**17**	**J**	53	6.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Anthracene	**39**		11	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Benzo[a]anthracene	**150**		11	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Benzo[a]pyrene	**110**		14	6.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Benzo[b]fluoranthene	**180**		16	8.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Benzo[g,h,i]perylene	**69**		27	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Benzo[k]fluoranthene	**62**		11	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Chrysene	**130**		12	6.0	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Dibenz(a,h)anthracene	**27**		27	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Fluoranthene	**200**		27	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Fluorene	**11**	**J**	27	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Indeno[1,2,3-cd]pyrene	**63**		27	9.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
1-Methylnaphthalene	**65**		53	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
2-Methylnaphthalene	**90**		53	9.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Naphthalene	**75**		53	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Phenanthrene	**160**		11	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1
Pyrene	**150**		27	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*05/03/13 09:41*	*05/06/13 19:43*	*1*

Client Sample ID: CV0466B-CS-SP

Lab Sample ID: 680-89896-13

Date Collected: 04/30/13 14:20
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 75.9

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	☼	05/03/13 09:41	05/06/13 19:58	1
Acenaphthylene	**7.4**	**J**	53	6.6	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Anthracene	**11**		11	5.5	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Benzo[a]anthracene	**46**		11	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Benzo[a]pyrene	**34**		14	6.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Benzo[b]fluoranthene	**48**		16	8.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Benzo[g,h,i]perylene	**21**	**J**	26	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Benzo[k]fluoranthene	**26**		11	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Chrysene	**47**		12	5.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Dibenz(a,h)anthracene	26	U	26	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Fluoranthene	**44**		26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Fluorene	26	U	26	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Indeno[1,2,3-cd]pyrene	**22**	**J**	26	9.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
1-Methylnaphthalene	**13**	**J**	53	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
2-Methylnaphthalene	**18**	**J**	53	9.4	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Naphthalene	**28**	**J**	53	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Phenanthrene	**39**		11	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1
Pyrene	**39**		26	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*05/03/13 09:41*	*05/06/13 19:58*	*1*

Client Sample ID: CV0963A-CS-SP

Lab Sample ID: 680-89896-14

Date Collected: 04/30/13 12:40
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**48**	**J**	130	26	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Acenaphthylene	**15**	**J**	51	6.4	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Anthracene	**150**		11	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Benzo[a]anthracene	**330**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Benzo[a]pyrene	**230**		13	6.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Benzo[b]fluoranthene	**330**		16	7.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Benzo[g,h,i]perylene	**120**		26	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Benzo[k]fluoranthene	**130**		10	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Chrysene	**290**		11	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Dibenz(a,h)anthracene	**38**		26	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Fluoranthene	**550**		26	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Fluorene	**51**		26	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Indeno[1,2,3-cd]pyrene	**120**		26	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
1-Methylnaphthalene	**78**		51	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
2-Methylnaphthalene	**100**		51	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Naphthalene	**66**		51	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Phenanthrene	**560**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1
Pyrene	**430**		26	4.7	ug/Kg	☼	05/03/13 09:41	05/06/13 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*05/03/13 09:41*	*05/06/13 20:12*	*1*

Client Sample ID: CV0964A-CS-SP

Lab Sample ID: 680-89896-15

Date Collected: 04/30/13 13:35
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Acenaphthylene	**40**	**J**	200	25	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Anthracene	**84**		41	21	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Benzo[a]anthracene	**310**		39	19	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Benzo[a]pyrene	**220**		51	26	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Benzo[b]fluoranthene	**280**		60	30	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Benzo[g,h,i]perylene	**120**		98	22	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Benzo[k]fluoranthene	**150**		39	18	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Chrysene	**230**		44	22	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Dibenz(a,h)anthracene	**40**	**J**	98	20	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Fluoranthene	**320**		98	20	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Fluorene	98	U	98	20	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Indeno[1,2,3-cd]pyrene	**120**		98	35	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
1-Methylnaphthalene	**65**	**J**	200	22	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
2-Methylnaphthalene	**130**	**J**	200	35	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Naphthalene	**78**	**J**	200	22	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Phenanthrene	**210**		39	19	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4
Pyrene	**270**		98	18	ug/Kg	☼	05/03/13 09:41	05/06/13 20:27	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*30 - 130*	*05/03/13 09:41*	*05/06/13 20:27*	*4*

Client Sample ID: CV0964B-CS-SP

Lab Sample ID: 680-89896-16

Date Collected: 04/30/13 13:50
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**44**	**J**	120	23	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Acenaphthylene	**140**		46	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Anthracene	**260**		9.8	4.9	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Benzo[a]anthracene	**820**		9.3	4.5	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Benzo[a]pyrene	**600**		12	6.0	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Benzo[b]fluoranthene	**830**		14	7.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Benzo[g,h,i]perylene	**280**		23	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Benzo[k]fluoranthene	**410**		9.3	4.2	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Chrysene	**650**		10	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Dibenz(a,h)anthracene	**110**		23	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Fluoranthene	**1400**		23	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Fluorene	**60**		23	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Indeno[1,2,3-cd]pyrene	**320**		23	8.2	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
1-Methylnaphthalene	**73**		46	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
2-Methylnaphthalene	**130**		46	8.2	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Naphthalene	**120**		46	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Phenanthrene	**720**		9.3	4.5	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1
Pyrene	**870**		23	4.3	ug/Kg	☼	05/03/13 09:41	05/06/13 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*30 - 130*	*05/03/13 09:41*	*05/06/13 20:43*	*1*

Client Sample ID: CV0988A-CS

Lab Sample ID: 680-89896-17

Date Collected: 04/30/13 13:10
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 77.2

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	☼	05/03/13 09:41	05/06/13 20:58	1
Acenaphthylene	**27**	**J**	51	6.4	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Anthracene	**57**		11	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Benzo[a]anthracene	**290**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Benzo[a]pyrene	**250**		13	6.7	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Benzo[b]fluoranthene	**360**		16	7.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Benzo[g,h,i]perylene	**200**		26	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Benzo[k]fluoranthene	**170**		10	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Chrysene	**270**		12	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Dibenz(a,h)anthracene	**55**		26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Fluoranthene	**420**		26	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Fluorene	**14**	**J**	26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Indeno[1,2,3-cd]pyrene	**190**		26	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
1-Methylnaphthalene	**47**	**J**	51	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
2-Methylnaphthalene	**63**		51	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Naphthalene	**56**		51	5.6	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Phenanthrene	**240**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1
Pyrene	**380**		26	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*34*		*30 - 130*	*05/03/13 09:41*	*05/06/13 20:58*	*1*

Client Sample ID: CV0988A-CSD

Lab Sample ID: 680-89896-18

Date Collected: 04/30/13 13:10
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 77.5

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	☼	05/03/13 09:41	05/06/13 21:13	1
Acenaphthylene	**19**	**J**	51	6.4	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Anthracene	**49**		11	5.4	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Benzo[a]anthracene	**180**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Benzo[a]pyrene	**150**		13	6.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Benzo[b]fluoranthene	**240**		16	7.9	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Benzo[g,h,i]perylene	**110**		26	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Benzo[k]fluoranthene	**91**		10	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Chrysene	**170**		12	5.8	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Dibenz(a,h)anthracene	**30**		26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Fluoranthene	**300**		26	5.1	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Fluorene	**12**	**J**	26	5.3	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Indeno[1,2,3-cd]pyrene	**96**		26	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
1-Methylnaphthalene	**35**	**J**	51	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
2-Methylnaphthalene	**51**		51	9.1	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Naphthalene	**38**	**J**	51	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Phenanthrene	**220**		10	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1
Pyrene	**240**		26	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*36*		*30 - 130*	*05/03/13 09:41*	*05/06/13 21:13*	*1*

Client Sample ID: CV0988B-CS

Lab Sample ID: 680-89896-19

Date Collected: 04/30/13 13:00
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 87.5

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	☼	05/03/13 09:41	05/06/13 21:28	1
Acenaphthylene	**6.0**	**J**	46	5.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Anthracene	**16**		9.6	4.8	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Benzo[a]anthracene	**45**		9.2	4.5	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Benzo[a]pyrene	**36**		12	6.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Benzo[b]fluoranthene	**55**		14	7.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Benzo[g,h,i]perylene	**25**		23	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Benzo[k]fluoranthene	**26**		9.2	4.1	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Chrysene	**48**		10	5.2	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Dibenz(a,h)anthracene	**5.9**	**J**	23	4.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Fluoranthene	**57**		23	4.6	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Fluorene	23	U	23	4.7	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Indeno[1,2,3-cd]pyrene	**23**		23	8.1	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
1-Methylnaphthalene	**13**	**J**	46	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
2-Methylnaphthalene	**19**	**J**	46	8.1	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Naphthalene	**16**	**J**	46	5.0	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Phenanthrene	**53**		9.2	4.5	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1
Pyrene	**49**		23	4.2	ug/Kg	☼	05/03/13 09:41	05/06/13 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*32*		*30 - 130*	*05/03/13 09:41*	*05/06/13 21:28*	*1*

Client Sample ID: 050113-RB-Bowls&Spoons

Lab Sample ID: 680-89896-23

Date Collected: 05/01/13 09:30
Matrix: Water
Date Received: 05/02/13 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.2	U	2.2	0.56	ug/L		05/07/13 14:43	05/08/13 16:00	1
Acenaphthylene	1.1	U	1.1	0.28	ug/L		05/07/13 14:43	05/08/13 16:00	1
Anthracene	0.22	U	0.22	0.084	ug/L		05/07/13 14:43	05/08/13 16:00	1
Benzo[a]anthracene	0.22	U	0.22	0.056	ug/L		05/07/13 14:43	05/08/13 16:00	1
Benzo[a]pyrene	0.22	U	0.22	0.063	ug/L		05/07/13 14:43	05/08/13 16:00	1
Benzo[b]fluoranthene	0.22	U	0.22	0.056	ug/L		05/07/13 14:43	05/08/13 16:00	1
Benzo[g,h,i]perylene	0.56	U F	0.56	0.11	ug/L		05/07/13 14:43	05/08/13 16:00	1
Benzo[k]fluoranthene	0.22	U	0.22	0.063	ug/L		05/07/13 14:43	05/08/13 16:00	1
Chrysene	0.22	U	0.22	0.077	ug/L		05/07/13 14:43	05/08/13 16:00	1
Dibenz(a,h)anthracene	0.22	U	0.22	0.056	ug/L		05/07/13 14:43	05/08/13 16:00	1
Fluoranthene	0.56	U	0.56	0.060	ug/L		05/07/13 14:43	05/08/13 16:00	1
Fluorene	2.2	U	2.2	0.56	ug/L		05/07/13 14:43	05/08/13 16:00	1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.056	ug/L		05/07/13 14:43	05/08/13 16:00	1
1-Methylnaphthalene	2.2	U	2.2	0.56	ug/L		05/07/13 14:43	05/08/13 16:00	1
2-Methylnaphthalene	2.2	U	2.2	0.56	ug/L		05/07/13 14:43	05/08/13 16:00	1
Naphthalene	2.2	U	2.2	0.28	ug/L		05/07/13 14:43	05/08/13 16:00	1
Phenanthrene	0.56	U	0.56	0.22	ug/L		05/07/13 14:43	05/08/13 16:00	1
Pyrene	0.56	U	0.56	0.099	ug/L		05/07/13 14:43	05/08/13 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*30 - 130*	*05/07/13 14:43*	*05/08/13 16:00*	*1*

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

Lab Sample ID: MB 660-137098/1-A
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Acenaphthylene	40	U	40	5.0	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Fluoranthene	20	U	20	4.0	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Fluorene	20	U	20	4.1	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Naphthalene	40	U	40	4.4	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		05/03/13 09:41	05/06/13 13:22	1
Pyrene	20	U	20	3.7	ug/Kg		05/03/13 09:41	05/06/13 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*05/03/13 09:41*	*05/06/13 13:22*	*1*

Lab Sample ID: LCS 660-137098/2-A
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	669	456		ug/Kg		68	39 - 130
Acenaphthylene	669	481		ug/Kg		72	38 - 130
Anthracene	669	510		ug/Kg		76	37 - 130
Benzo[a]anthracene	669	518		ug/Kg		78	40 - 130
Benzo[a]pyrene	669	456		ug/Kg		68	49 - 130
Benzo[b]fluoranthene	669	440		ug/Kg		66	37 - 130
Benzo[g,h,i]perylene	669	536		ug/Kg		80	32 - 130
Benzo[k]fluoranthene	669	447		ug/Kg		67	32 - 130
Chrysene	669	449		ug/Kg		67	41 - 130
Dibenz(a,h)anthracene	669	538		ug/Kg		80	27 - 130
Fluoranthene	669	532		ug/Kg		79	40 - 130
Fluorene	669	498		ug/Kg		74	40 - 130
Indeno[1,2,3-cd]pyrene	669	505		ug/Kg		75	30 - 130
1-Methylnaphthalene	669	520		ug/Kg		78	31 - 130
2-Methylnaphthalene	669	507		ug/Kg		76	33 - 130
Naphthalene	669	455		ug/Kg		68	36 - 130
Phenanthrene	669	492		ug/Kg		73	42 - 130
Pyrene	669	492		ug/Kg		74	44 - 130

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

Lab Sample ID: LCS 660-137098/2-A
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137098

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	73		30 - 130

Lab Sample ID: 680-89896-4 MS
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: CV0731A-CS-SP
Prep Type: Total/NA
Prep Batch: 137098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	97	J F	810	491		ug/Kg	☼	49	39 - 130
Acenaphthylene	130	J F	810	632		ug/Kg	☼	62	38 - 130
Anthracene	410	F	810	676	F	ug/Kg	☼	33	37 - 130
Benzo[a]anthracene	860	F	810	1070	F	ug/Kg	☼	26	40 - 130
Benzo[a]pyrene	680	F	810	843	F	ug/Kg	☼	20	49 - 130
Benzo[b]fluoranthene	840	F	810	1100	F	ug/Kg	☼	33	37 - 130
Benzo[g,h,i]perylene	650	F	810	887	F	ug/Kg	☼	29	32 - 130
Benzo[k]fluoranthene	440	F	810	655	F	ug/Kg	☼	26	32 - 130
Chrysene	710	F	810	792	F	ug/Kg	☼	11	41 - 130
Dibenz(a,h)anthracene	170	F	810	705		ug/Kg	☼	66	27 - 130
Fluoranthene	1800	F	810	1310	F	ug/Kg	☼	-60	40 - 130
Fluorene	180	F	810	571		ug/Kg	☼	48	40 - 130
Indeno[1,2,3-cd]pyrene	600	F	810	937		ug/Kg	☼	42	30 - 130
1-Methylnaphthalene	140	J F	810	616		ug/Kg	☼	59	31 - 130
2-Methylnaphthalene	190	F	810	645		ug/Kg	☼	57	33 - 130
Naphthalene	400	F	810	604	F	ug/Kg	☼	25	36 - 130
Phenanthrene	2200	F	810	1220	F	ug/Kg	☼	-123	42 - 130
Pyrene	1700	F	810	1250	F	ug/Kg	☼	-55	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	60		30 - 130

Lab Sample ID: 680-89896-4 MSD
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: CV0731A-CS-SP
Prep Type: Total/NA
Prep Batch: 137098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	97	J F	811	3660	F	ug/Kg	☼	439	39 - 130	153	40
Acenaphthylene	130	J F	811	4220	F	ug/Kg	☼	504	38 - 130	148	40
Anthracene	410	F	811	12100	F	ug/Kg	☼	1440	37 - 130	179	40
Benzo[a]anthracene	860	F	811	23900	E F	ug/Kg	☼	2837	40 - 130	183	40
Benzo[a]pyrene	680	F	811	20800	E F	ug/Kg	☼	2479	49 - 130	184	40
Benzo[b]fluoranthene	840	F	811	29800	E F	ug/Kg	☼	3570	37 - 130	186	40
Benzo[g,h,i]perylene	650	F	811	14300	F	ug/Kg	☼	1686	32 - 130	177	40
Benzo[k]fluoranthene	440	F	811	8670	F	ug/Kg	☼	1014	32 - 130	172	40
Chrysene	710	F	811	21200	E F	ug/Kg	☼	2524	41 - 130	186	40
Dibenz(a,h)anthracene	170	F	811	5620	F	ug/Kg	☼	672	27 - 130	155	40
Fluoranthene	1800	F	811	57400	E F	ug/Kg	☼	6848	40 - 130	191	40
Fluorene	180	F	811	7540	F	ug/Kg	☼	907	40 - 130	172	40
Indeno[1,2,3-cd]pyrene	600	F	811	13900	F	ug/Kg	☼	1640	30 - 130	175	40
1-Methylnaphthalene	140	J F	811	3090	F	ug/Kg	☼	364	31 - 130	134	40

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

Lab Sample ID: 680-89896-4 MSD
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: CV0731A-CS-SP
Prep Type: Total/NA
Prep Batch: 137098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	190	F	811	4130	F	ug/Kg	☼	485	33 - 130	146	40
Naphthalene	400	F	811	14700	F	ug/Kg	☼	1758	36 - 130	184	40
Phenanthrene	2200	F	811	63500	E F	ug/Kg	☼	7556	42 - 130	192	40
Pyrene	1700	F	811	42300	E F	ug/Kg	☼	5005	44 - 130	188	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*55*		*30 - 130*

Lab Sample ID: MB 660-137196/1-A
Matrix: Water
Analysis Batch: 137292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.0	U	2.0	0.50	ug/L		05/07/13 14:43	05/08/13 15:16	1
Acenaphthylene	1.0	U	1.0	0.25	ug/L		05/07/13 14:43	05/08/13 15:16	1
Anthracene	0.20	U	0.20	0.076	ug/L		05/07/13 14:43	05/08/13 15:16	1
Benzo[a]anthracene	0.20	U	0.20	0.050	ug/L		05/07/13 14:43	05/08/13 15:16	1
Benzo[a]pyrene	0.20	U	0.20	0.057	ug/L		05/07/13 14:43	05/08/13 15:16	1
Benzo[b]fluoranthene	0.20	U	0.20	0.050	ug/L		05/07/13 14:43	05/08/13 15:16	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.10	ug/L		05/07/13 14:43	05/08/13 15:16	1
Benzo[k]fluoranthene	0.20	U	0.20	0.057	ug/L		05/07/13 14:43	05/08/13 15:16	1
Chrysene	0.20	U	0.20	0.069	ug/L		05/07/13 14:43	05/08/13 15:16	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.050	ug/L		05/07/13 14:43	05/08/13 15:16	1
Fluoranthene	0.50	U	0.50	0.054	ug/L		05/07/13 14:43	05/08/13 15:16	1
Fluorene	2.0	U	2.0	0.50	ug/L		05/07/13 14:43	05/08/13 15:16	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050	ug/L		05/07/13 14:43	05/08/13 15:16	1
1-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		05/07/13 14:43	05/08/13 15:16	1
2-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		05/07/13 14:43	05/08/13 15:16	1
Naphthalene	2.0	U	2.0	0.25	ug/L		05/07/13 14:43	05/08/13 15:16	1
Phenanthrene	0.50	U	0.50	0.20	ug/L		05/07/13 14:43	05/08/13 15:16	1
Pyrene	0.50	U	0.50	0.089	ug/L		05/07/13 14:43	05/08/13 15:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*30 - 130*	*05/07/13 14:43*	*05/08/13 15:16*	*1*

Lab Sample ID: LCS 660-137196/2-A
Matrix: Water
Analysis Batch: 137292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	10.0	7.65		ug/L		77	55 - 132
Acenaphthylene	10.0	8.64		ug/L		86	39 - 130
Anthracene	10.0	8.45		ug/L		85	39 - 130
Benzo[a]anthracene	10.0	8.07		ug/L		81	54 - 135
Benzo[a]pyrene	10.0	5.44		ug/L		54	21 - 130
Benzo[b]fluoranthene	10.0	6.12		ug/L		61	37 - 130
Benzo[g,h,i]perylene	10.0	3.70		ug/L		37	26 - 130
Benzo[k]fluoranthene	10.0	6.98		ug/L		70	38 - 130

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

Lab Sample ID: LCS 660-137196/2-A
Matrix: Water
Analysis Batch: 137292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137196

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chrysene			10.0	7.73		ug/L		77	56 - 130		
Dibenz(a,h)anthracene			10.0	3.18		ug/L		32	13 - 130		
Fluoranthene			10.0	9.06		ug/L		91	60 - 130		
Fluorene			10.0	8.78		ug/L		88	55 - 140		
Indeno[1,2,3-cd]pyrene			10.0	2.96		ug/L		30	21 - 130		
1-Methylnaphthalene			10.0	8.61		ug/L		86	49 - 130		
2-Methylnaphthalene			10.0	8.75		ug/L		87	48 - 130		
Naphthalene			10.0	8.02		ug/L		80	54 - 133		
Phenanthrene			10.0	8.39		ug/L		84	60 - 136		
Pyrene			10.0	8.58		ug/L		86	60 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*85*		*30 - 130*

Lab Sample ID: LCSD 660-137196/3-A
Matrix: Water
Analysis Batch: 137292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 137196

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			10.0	8.07		ug/L		81	55 - 132	5	35
Acenaphthylene			10.0	8.53		ug/L		85	39 - 130	1	35
Anthracene			10.0	8.31		ug/L		83	39 - 130	2	35
Benzo[a]anthracene			10.0	7.92		ug/L		79	54 - 135	2	35
Benzo[a]pyrene			10.0	4.66		ug/L		47	21 - 130	15	35
Benzo[b]fluoranthene			10.0	6.04		ug/L		60	37 - 130	1	35
Benzo[g,h,i]perylene			10.0	3.10		ug/L		31	26 - 130	18	35
Benzo[k]fluoranthene			10.0	5.73		ug/L		57	38 - 130	20	35
Chrysene			10.0	7.35		ug/L		73	56 - 130	5	35
Dibenz(a,h)anthracene			10.0	2.91		ug/L		29	13 - 130	9	35
Fluoranthene			10.0	8.54		ug/L		85	60 - 130	6	35
Fluorene			10.0	8.71		ug/L		87	55 - 140	1	35
Indeno[1,2,3-cd]pyrene			10.0	2.64		ug/L		26	21 - 130	12	35
1-Methylnaphthalene			10.0	9.19		ug/L		92	49 - 130	7	35
2-Methylnaphthalene			10.0	8.77		ug/L		88	48 - 130	0	35
Naphthalene			10.0	8.00		ug/L		80	54 - 133	0	35
Phenanthrene			10.0	8.39		ug/L		84	60 - 136	0	35
Pyrene			10.0	8.45		ug/L		84	60 - 138	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*80*		*30 - 130*

Lab Sample ID: 680-89896-23 MS
Matrix: Water
Analysis Batch: 137292

Client Sample ID: 050113-RB-Bowls&Spoons
Prep Type: Total/NA
Prep Batch: 137196

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene	2.2	U	10.5	8.80		ug/L		84	55 - 132		
Acenaphthylene	1.1	U	10.5	9.35		ug/L		89	39 - 130		

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

Lab Sample ID: 680-89896-23 MS
Matrix: Water
Analysis Batch: 137292

Client Sample ID: 050113-RB-Bowls&Spoons
Prep Type: Total/NA
Prep Batch: 137196

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	0.22	U	10.5	9.13		ug/L		87	39 - 130
Benzo[a]anthracene	0.22	U	10.5	8.50		ug/L		81	54 - 135
Benzo[a]pyrene	0.22	U	10.5	4.94		ug/L		47	21 - 130
Benzo[b]fluoranthene	0.22	U	10.5	6.25		ug/L		59	37 - 130
Benzo[g,h,i]perylene	0.56	U F	10.5	2.66	F	ug/L		25	26 - 130
Benzo[k]fluoranthene	0.22	U	10.5	5.40		ug/L		51	38 - 130
Chrysene	0.22	U	10.5	7.23		ug/L		69	56 - 130
Dibenz(a,h)anthracene	0.22	U	10.5	2.09		ug/L		20	13 - 130
Fluoranthene	0.56	U	10.5	9.52		ug/L		90	60 - 130
Fluorene	2.2	U	10.5	9.62		ug/L		91	55 - 140
Indeno[1,2,3-cd]pyrene	0.22	U	10.5	2.55		ug/L		24	21 - 130
1-Methylnaphthalene	2.2	U	10.5	10.2		ug/L		97	49 - 130
2-Methylnaphthalene	2.2	U	10.5	9.81		ug/L		93	48 - 130
Naphthalene	2.2	U	10.5	9.05		ug/L		86	54 - 133
Phenanthrene	0.56	U	10.5	9.06		ug/L		86	60 - 136
Pyrene	0.56	U	10.5	9.48		ug/L		90	60 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*87*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 137098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-1	CV0727A-CS-SP	Total/NA	Solid	3546	
680-89896-2	CV0728A-CS-SP	Total/NA	Solid	3546	
680-89896-3	CV0728B-CS-SP	Total/NA	Solid	3546	
680-89896-4	CV0731A-CS-SP	Total/NA	Solid	3546	
680-89896-4 MS	CV0731A-CS-SP	Total/NA	Solid	3546	
680-89896-4 MSD	CV0731A-CS-SP	Total/NA	Solid	3546	
680-89896-5	CV0731B-CS-SP	Total/NA	Solid	3546	
680-89896-6	CV0662A-CS-SP	Total/NA	Solid	3546	
680-89896-7	CV0670A-CS-SP	Total/NA	Solid	3546	
680-89896-8	CV0670B-CS-SP	Total/NA	Solid	3546	
680-89896-9	CV0670C-CS-SP	Total/NA	Solid	3546	
680-89896-10	CV0670D-CS-SP	Total/NA	Solid	3546	
680-89896-11	CV0670E-CS-SP	Total/NA	Solid	3546	
680-89896-12	CV0466A-CS-SP	Total/NA	Solid	3546	
680-89896-13	CV0466B-CS-SP	Total/NA	Solid	3546	
680-89896-14	CV0963A-CS-SP	Total/NA	Solid	3546	
680-89896-15	CV0964A-CS-SP	Total/NA	Solid	3546	
680-89896-16	CV0964B-CS-SP	Total/NA	Solid	3546	
680-89896-17	CV0988A-CS	Total/NA	Solid	3546	
680-89896-18	CV0988A-CSD	Total/NA	Solid	3546	
680-89896-19	CV0988B-CS	Total/NA	Solid	3546	
LCS 660-137098/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137098/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 137156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-1	CV0727A-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-2	CV0728A-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-3	CV0728B-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-4	CV0731A-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-4 MS	CV0731A-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-4 MSD	CV0731A-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-5	CV0731B-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-6	CV0662A-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-7	CV0670A-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-8	CV0670B-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-9	CV0670C-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-10	CV0670D-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-11	CV0670E-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-12	CV0466A-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-13	CV0466B-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-14	CV0963A-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-15	CV0964A-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-16	CV0964B-CS-SP	Total/NA	Solid	8270C LL	137098
680-89896-17	CV0988A-CS	Total/NA	Solid	8270C LL	137098
680-89896-18	CV0988A-CSD	Total/NA	Solid	8270C LL	137098
680-89896-19	CV0988B-CS	Total/NA	Solid	8270C LL	137098
LCS 660-137098/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137098
MB 660-137098/1-A	Method Blank	Total/NA	Solid	8270C LL	137098

GC/MS Semi VOA (Continued)

Prep Batch: 137196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-23	050113-RB-Bowls&Spoons	Total/NA	Water	3520C	
680-89896-23 MS	050113-RB-Bowls&Spoons	Total/NA	Water	3520C	
LCS 660-137196/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 660-137196/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 660-137196/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 137292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-23	050113-RB-Bowls&Spoons	Total/NA	Water	8270C LL	137196
680-89896-23 MS	050113-RB-Bowls&Spoons	Total/NA	Water	8270C LL	137196
LCS 660-137196/2-A	Lab Control Sample	Total/NA	Water	8270C LL	137196
LCSD 660-137196/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	137196
MB 660-137196/1-A	Method Blank	Total/NA	Water	8270C LL	137196

General Chemistry

Analysis Batch: 137086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-1	CV0727A-CS-SP	Total/NA	Solid	Moisture	
680-89896-2	CV0728A-CS-SP	Total/NA	Solid	Moisture	
680-89896-3	CV0728B-CS-SP	Total/NA	Solid	Moisture	
680-89896-4	CV0731A-CS-SP	Total/NA	Solid	Moisture	
680-89896-4 MS	CV0731A-CS-SP	Total/NA	Solid	Moisture	
680-89896-4 MSD	CV0731A-CS-SP	Total/NA	Solid	Moisture	
680-89896-5	CV0731B-CS-SP	Total/NA	Solid	Moisture	
680-89896-6	CV0662A-CS-SP	Total/NA	Solid	Moisture	
680-89896-7	CV0670A-CS-SP	Total/NA	Solid	Moisture	
680-89896-8	CV0670B-CS-SP	Total/NA	Solid	Moisture	
680-89896-9	CV0670C-CS-SP	Total/NA	Solid	Moisture	
680-89896-10	CV0670D-CS-SP	Total/NA	Solid	Moisture	
680-89896-11	CV0670E-CS-SP	Total/NA	Solid	Moisture	
680-89896-12	CV0466A-CS-SP	Total/NA	Solid	Moisture	
680-89896-13	CV0466B-CS-SP	Total/NA	Solid	Moisture	
680-89896-14	CV0963A-CS-SP	Total/NA	Solid	Moisture	
680-89896-15	CV0964A-CS-SP	Total/NA	Solid	Moisture	
680-89896-16	CV0964B-CS-SP	Total/NA	Solid	Moisture	
680-89896-17	CV0988A-CS	Total/NA	Solid	Moisture	
680-89896-18	CV0988A-CSD	Total/NA	Solid	Moisture	
680-89896-19	CV0988B-CS	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-89896-1
SDG: 68089896-1

Client Sample ID: CV0727A-CS-SP

Lab Sample ID: 680-89896-1
Date Collected: 04/29/13 14:24
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 13:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0728A-CS-SP

Lab Sample ID: 680-89896-2
Date Collected: 04/29/13 13:51
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 14:07	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0728B-CS-SP

Lab Sample ID: 680-89896-3
Date Collected: 04/29/13 13:57
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 14:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0731A-CS-SP

Lab Sample ID: 680-89896-4
Date Collected: 04/29/13 13:22
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137156	05/06/13 14:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0731B-CS-SP

Lab Sample ID: 680-89896-5
Date Collected: 04/29/13 13:33
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 17:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0662A-CS-SP

Lab Sample ID: 680-89896-6

Date Collected: 04/30/13 10:35
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 18:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0670A-CS-SP

Lab Sample ID: 680-89896-7

Date Collected: 04/30/13 09:10
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137156	05/06/13 18:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0670B-CS-SP

Lab Sample ID: 680-89896-8

Date Collected: 04/30/13 09:15
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 18:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0670C-CS-SP

Lab Sample ID: 680-89896-9

Date Collected: 04/30/13 09:36
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137156	05/06/13 18:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0670D-CS-SP

Lab Sample ID: 680-89896-10

Date Collected: 04/30/13 09:48
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 19:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89896-1
SDG: 68089896-1

Client Sample ID: CV0670E-CS-SP

Lab Sample ID: 680-89896-11
Date Collected: 04/30/13 10:15
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 19:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0466A-CS-SP

Lab Sample ID: 680-89896-12
Date Collected: 04/30/13 14:10
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 19:43	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0466B-CS-SP

Lab Sample ID: 680-89896-13
Date Collected: 04/30/13 14:20
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 19:58	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0963A-CS-SP

Lab Sample ID: 680-89896-14
Date Collected: 04/30/13 12:40
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 20:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0964A-CS-SP

Lab Sample ID: 680-89896-15
Date Collected: 04/30/13 13:35
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137156	05/06/13 20:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89896-1
SDG: 68089896-1

Client Sample ID: CV0964B-CS-SP

Lab Sample ID: 680-89896-16
Date Collected: 04/30/13 13:50
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 20:43	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0988A-CS

Lab Sample ID: 680-89896-17
Date Collected: 04/30/13 13:10
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 20:58	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0988A-CSD

Lab Sample ID: 680-89896-18
Date Collected: 04/30/13 13:10
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 21:13	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: CV0988B-CS

Lab Sample ID: 680-89896-19
Date Collected: 04/30/13 13:00
Matrix: Solid
Date Received: 05/02/13 10:30
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137098	05/03/13 09:41	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 21:28	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

Client Sample ID: 050113-RB-Bowls&Spoons

Lab Sample ID: 680-89896-23
Date Collected: 05/01/13 09:30
Matrix: Water
Date Received: 05/02/13 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			137196	05/07/13 14:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137292	05/08/13 16:00	SCC	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 64698

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
Test Am Tampa
Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 200519R-1356
PROJECT LOCATION (STATE): AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 2

STANDARD REPORT DELIVERY ○ 10 Calender Days
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 11 PAH	RCRA 8 metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-29-13	1424	CV0727A-CS-SP	C		X			X			
	1351	CV0728A-CS-SP	C		X			X			
	1357	CV0728B-CS-SP	C		X			X			
	1322	CV0731A-CS-SP	C		X			X	X		
	1333	CV0731B-CS-SP	C		X			X			
4-30-13	1035	CV0662A-CS-SP	C		X			X	X		
	0910	CV0670A-CS-SP	C		X			X			
	0915	CV0670B-CS-SP	C		X			X			
	0936	CV0670C-CS-SP	C		X			X			
	0948	CV0670D-CS-SP	C		X			X			
	1015	CV0670E-CS-SP	C		X			X			
	1410	CV0466A-CS-SP	C		X			X			

PRESERVATIVE

Loc: 680
89896

680-89896 Login
PM: Harvey, Lisa
Company: Oneida Total Integrated Enterprise

680-89896-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-1-13	13:30		5/2/13	1330			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5-2-13	1030						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	05/03/13	0713	YES ○ NO ○		680-89896	1.3 CV-07 (2.0°C - Savannah)

TAL8240-680 (1008)

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5/14/2013

Serial Number 64699

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
Test Am Tampa
Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal | PROJECT NO.: 200514S-1356 | PROJECT LOCATION (STATE): AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

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STANDARD REPORT DELIVERY: 10 Calender Days
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 2L PAH	REQUIRED ANALYSIS: RCRA8 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
								PRESERVATIVE			
4-30-13	1420	CV0466B-CS-SP	C		X			X			
	1240	CV0963A-CS-SP	C		X			X			
	1355	CV0964A-CS-SP	C		X			X			
	1350	CV0564B-CS-SP	C		X			X			
	1310	CV0988A-CS	C		X			X			
	1310	CV0588A-CSD	C		X			X	X		
	1300	CV0988B-CS	C		X			X			
4-30-13	1035	CV0662a-CS-SP (sieve)	C		X				X		
4-29-13	13 22	CV0731A-CS-SP (sieve)	C		X				X		
4-30-13	1310	CV0988A-CS (sieve)	C		X				X		
5-1-13	0930	050113-RB-Bowls + Spoons		X				X	X		

680-89896-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-1-13	1330		5/2/13	1730			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5-2-13	1030						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	05/03/13	07/3	YES ○ NO ○		680-89896	

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5/7/2013

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-1
SDG Number: 68089896-1

Login Number: 89896
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

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

TestAmerica Job ID: 680-89896-1
SDG: 68089896-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13 *
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
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
Hawaii	State Program	9	N/A	06-30-13
Illinois	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	04-01-14
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 certifications held by this laboratory are listed. Not all certifications 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

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

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

TestAmerica Job ID: 680-89896-1
SDG: 68089896-1

Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications 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