

REDACTED

Data Validation Checklist Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil and water
 Reviewer: Karen Marie Trujillo
 Concurrence²: Nicole Lancaster / Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-88913-1
 Associated Samples: Refer to Attachment A (Sample Summary)
 Samples Collected: 04/01/2013 and 04/02/2013
 Date: 04/24/2013
 Date: 04/30/2013

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 040213-RB-sieve (680-88913-17).	

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, 040213-RB-sieve (680-88913-17) was collected during the week of 4/01/13. 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?	✓			FM0207A-CSD (680-88913-9) is a field duplicate of FM0207A-CS (680-88913-8).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B (Field Duplicate Evaluation)	J/UJ
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.	✓			Soil: - Instrument ID: BSMA5973 - Initial Calibration: 04/09/2013 - ICV: 04/09/13 @ 13:51 - CCV: 04/10/13 @ 12:41 Water: - Instrument ID: BSMD5973 - Initial Calibration: 04/04/2013 - ICV: 04/04/13 @ 16:27 - CCV: 04/11/13 @ 11:20	
19. Were calibration results within laboratory/project specifications? - ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): - If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or r^2		✓		ICV of 04/04/13 @ 16:27, instrument BSMD5973: Benzo[a]pyrene @ -23.7 %D (Lab: ≤ 35.0 , Project: ≤ 20), 76.5%R. A negative bias is indicated by the CCV percent difference and the analyte was not detected in the associated sample ³ ; therefore, UJ-flag ND result.	UJ

³ Associated sample: 680-88980-17 (040213-RB-sieve)

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<0.995, then J-flag positive results and UJ-flag non-detects - o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and $RF \geq 0.050$ (≥ 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 $\%R > \text{Upper Control Limit (UCL)}$ and J/R-flag results when $\%R < \text{Lower Control Limit (LCL)}$.	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?		✓		• Soil, Prep Batch 136235: 680-88913-2 (CV0116B-CS-SP), MS/MSD	
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Water, Prep Batch 136268: 640-42937-15 (Batch sample), MS only due to limited sample volume. Laboratory duplicate analysis conducted in lieu of MSD.	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> • 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 $< \text{LCL}$: J-Flag positive and UJ-flag non-detect results • MS and MSD $R\% > \text{UCL}$ (or 140): J-Flag positive results	✓				
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If $\%RPD > \text{UCL}$, J-flag positive result and UJ-flag non-detect result	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	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. Was a laboratory duplicate analysis conducted?	✓				
30. Is the laboratory duplicate parent sample a project-specific sample?	✓			Water, Prep batch 136268: 680-88913-17 (040213-RB-sieve)	
31. Were laboratory criteria met for precision during the laboratory duplicate analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> If %RPD > UCL, J-flag positive result and UJ-flag non-detect result			✓	An evaluation of precision is not possible, as target analytes were not detected in either sample.	
32. 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 <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (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: 680-88913-1
SDG: 680088913-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88913-1	CV0116A-CS-SP	Solid	04/01/13 14:30	04/03/13 09:27
680-88913-2	CV0116B-CS-SP	Solid	04/01/13 14:40	04/03/13 09:27
680-88913-3	CV0501A-CS-SP	Solid	04/01/13 13:50	04/03/13 09:27
680-88913-4	CV0501B-CS-SP	Solid	04/01/13 14:00	04/03/13 09:27
680-88913-5	FM0128A-CS-SP	Solid	04/01/13 13:20	04/03/13 09:27
680-88913-6	FM0128B-CS-SP	Solid	04/01/13 13:30	04/03/13 09:27
680-88913-7	HP0219A-CS	Solid	04/01/13 15:20	04/03/13 09:27
680-88913-8	FM0207A-CS	Solid	04/01/13 14:25	04/03/13 09:27
680-88913-9	FM0207A-CSD	Solid	04/01/13 14:30	04/03/13 09:27
680-88913-10	FM0207B-CS	Solid	04/01/13 14:37	04/03/13 09:27
680-88913-11	FM0207C-CS	Solid	04/01/13 14:42	04/03/13 09:27
680-88913-12	FM0207D-CS	Solid	04/01/13 14:51	04/03/13 09:27
680-88913-13	FM0321A-CS	Solid	04/01/13 12:58	04/03/13 09:27
680-88913-14	FM0321B-CS	Solid	04/01/13 13:05	04/03/13 09:27
680-88913-15	FM0326A-CS	Solid	04/01/13 13:35	04/03/13 09:27
680-88913-16	FM0326B-CS	Solid	04/01/13 13:44	04/03/13 09:27
680-88913-17	040213-RB-sieve	Water	04/02/13 09:10	04/03/13 09:27

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0207A-CS 680-88913-8	RL	FM0207A-CSD 680-88913-9		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action	
Benzo(a)anthracene	27	12			14	µg/kg	65	NA	27	26	J/UJ-flag, absolute difference > 2x Avg RL	
Benzo(a)pyrene	19	15			18	µg/kg	82.5	NA	19	33	None, absolute difference ≤ 2x Avg RL	
Benzo(b)fluoranthene	32	18	11	J	21	µg/kg	97.5	NA	21	39	None, absolute difference ≤ 2x Avg RL	
Benzo(g,h,i)perylene	18	J	29		34	µg/kg	157.5	NA	18	63	None, absolute difference ≤ 2x Avg RL	
Benzo(k)fluoranthene	12	12			14	µg/kg	65	NA	12	26	None, absolute difference ≤ 2x Avg RL	
Chrysene	25	13			15	µg/kg	70	NA	25	28	None, absolute difference ≤ 2x Avg RL	
Fluoranthene	28	J	29		34	µg/kg	157.5	NA	28	63	None, absolute difference ≤ 2x Avg RL	
Indeno(1,2,3-cd)pyrene	54	29			34	µg/kg	157.5	NA	54	63	None, absolute difference ≤ 2x Avg RL	
2-Methylnaphthalene	37	J	59		68	µg/kg	317.5	NA	37	127	None, absolute difference ≤ 2x Avg RL	
Naphthalene	48	J	59		68	µg/kg	317.5	NA	48	127	None, absolute difference ≤ 2x Avg RL	
Phenanthrene	49	12			14	µg/kg	65	NA	49	26	J/UJ-flag, absolute difference > 2x Avg RL	
Pyrene	24	J	29	6.7	J	34	µg/kg	157.5	NA	17.3	63	None, absolute difference ≤ 2x Avg RL

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

µg/kg - micrograms per kilogram

J - Estimated value

UJ - Not detected and the limit is estimated

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

Case Narrative

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Job ID: 680-88913-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88913-1

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 04/03/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0116A-CS-SP (680-88913-1), CV0116B-CS-SP (680-88913-2), CV0501A-CS-SP (680-88913-3), CV0501B-CS-SP (680-88913-4), FM0128A-CS-SP (680-88913-5), FM0128B-CS-SP (680-88913-6), HP0219A-CS (680-88913-7), FM0207A-CS (680-88913-8), FM0207A-CSD (680-88913-9), FM0207B-CS (680-88913-10), FM0207C-CS (680-88913-11), FM0207D-CS (680-88913-12), FM0321A-CS (680-88913-13), FM0321B-CS (680-88913-14), FM0326A-CS (680-88913-15) and FM0326B-CS (680 88913 16) were analyzed for Sem volatile Organic Compounds by GCMS Low Level in accordance with EPA SW 846 Method 8270C. The samples were prepared on 04/08/2013 and analyzed on 04/10/2013.

Method(s) 8270C LL: The following samples were diluted due to the color of the extracts: FM0326B-CS (680-88913-16). Elevated reporting limits (RL) are provided. Batch: 136318.

Method(s) 8270C LL: The matrix spike (MS) recoveries associated with batch 136371 were outside control limits, biased low: (640-42937-15 MS). Matrix interference is suspected. The associated laboratory control sample (LCS) recovery met acceptance criteria.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 040213-RB-sieve (680-88913-17) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/09/2013 and analyzed on 04/11/2013.

ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: CV0116A-CS-SP

Lab Sample ID: 680-88913-1

Date Collected: 04/01/13 14:30

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	63	J	130	26	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Acenaphthylene	58		52	6.5	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Anthracene	91		11	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Benzo[a]anthracene	390		10	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Benzo[a]pyrene	330		14	6.8	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Benzo[b]fluoranthene	530		16	7.9	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Benzo[g,h,i]perylene	300		26	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Benzo[k]fluoranthene	160		10	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Chrysene	460		12	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Dibenz(a,h)anthracene	97		26	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Fluoranthene	620		26	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Fluorene	51		26	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Indeno[1,2,3-cd]pyrene	280		26	9.2	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
1-Methylnaphthalene	230		52	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
2-Methylnaphthalene	300		52	9.2	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Naphthalene	200		52	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Phenanthrene	530		10	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Pyrene	590		26	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	51		30 - 130	04/08/13 15:18	04/10/13 14:42	1

Client Sample ID: CV0116B-CS-SP

Lab Sample ID: 680-88913-2

Date Collected: 04/01/13 14:40

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 59.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Acenaphthylene	68	U	68	8.5	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Anthracene	14	U	14	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Benzo[a]anthracene	46		14	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Benzo[a]pyrene	18	U	18	8.8	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Benzo[b]fluoranthene	65		21	10	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Benzo[g,h,i]perylene	44		34	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Benzo[k]fluoranthene	27		14	6.1	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Chrysene	60		15	7.6	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Dibenz(a,h)anthracene	14	J	34	7.0	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Fluoranthene	57		34	6.8	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Fluorene	34	U	34	7.0	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Indeno[1,2,3-cd]pyrene	82		34	12	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
1-Methylnaphthalene	61	J	68	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
2-Methylnaphthalene	69		68	12	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Naphthalene	73		68	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Phenanthrene	80		14	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Pyrene	59		34	6.3	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		30 - 130	04/08/13 15:18	04/10/13 14:57	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: CV0501A-CS-SP

Lab Sample ID: 680-88913-3

Date Collected: 04/01/13 13:50

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	69	J	130	26	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Acenaphthylene	72		52	6.5	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Anthracene	120		11	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Benzo[a]anthracene	490		10	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Benzo[a]pyrene	570		14	6.8	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Benzo[b]fluoranthene	860		16	7.9	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Benzo[g,h,i]perylene	510		26	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Benzo[k]fluoranthene	340		10	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Chrysene	590		12	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Dibenz(a,h)anthracene	160		26	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Fluoranthene	780		26	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Fluorene	61		26	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Indeno[1,2,3-cd]pyrene	490		26	9.2	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
1-Methylnaphthalene	130		52	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
2-Methylnaphthalene	150		52	9.2	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Naphthalene	130		52	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Phenanthrene	560		10	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Pyrene	690		26	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	62		30 - 130	04/08/13 15:18	04/10/13 15:42	1

Client Sample ID: CV0501B-CS-SP

Lab Sample ID: 680-88913-4

Date Collected: 04/01/13 14:00

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 60.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Acenaphthylene	64	U	64	8.0	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Anthracene	13	U	13	6.7	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Benzo[a]anthracene	53		13	6.3	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Benzo[a]pyrene	69		17	8.4	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Benzo[b]fluoranthene	110		20	9.8	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Benzo[g,h,i]perylene	67		32	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Benzo[k]fluoranthene	29		13	5.8	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Chrysene	65		14	7.2	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Dibenz(a,h)anthracene	16	J	32	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Fluoranthene	65		32	6.4	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Fluorene	32	U	32	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Indeno[1,2,3-cd]pyrene	100		32	11	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
1-Methylnaphthalene	64	U	64	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
2-Methylnaphthalene	41	J	64	11	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Naphthalene	53	J	64	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Phenanthrene	61		13	6.3	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Pyrene	74		32	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		30 - 130	04/08/13 15:18	04/10/13 15:57	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0128A-CS-SP

Lab Sample ID: 680-88913-5

Date Collected: 04/01/13 13:20

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 71.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Acenaphthylene	57	U	57	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Anthracene	12	U	12	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Benzo[a]anthracene	49		11	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Benzo[a]pyrene	54		15	7.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Benzo[b]fluoranthene	86		17	8.6	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Benzo[g,h,i]perylene	49		28	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Benzo[k]fluoranthene	26		11	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Chrysene	62		13	6.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Dibenz(a,h)anthracene	13 J		28	5.8	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Fluoranthene	73		28	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Fluorene	28	U	28	5.8	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Indeno[1,2,3-cd]pyrene	81		28	10	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
1-Methylnaphthalene	41 J		57	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
2-Methylnaphthalene	39 J		57	10	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Naphthalene	51 J		57	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Phenanthrene	67		11	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Pyrene	70		28	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	56		30 - 130				04/08/13 15:18	04/10/13 16:12	1

Client Sample ID: FM0128B-CS-SP

Lab Sample ID: 680-88913-6

Date Collected: 04/01/13 13:30

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 74.8

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	☼	04/08/13 15:18	04/10/13 16:27	1
Acenaphthylene	54	U	54	6.7	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Anthracene	11	U	11	5.6	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Benzo[a]anthracene	35		11	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Benzo[a]pyrene	36		14	7.0	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Benzo[b]fluoranthene	62		16	8.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Benzo[g,h,i]perylene	35		27	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Benzo[k]fluoranthene	20		11	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Chrysene	53		12	6.0	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Dibenz(a,h)anthracene	9.5 J		27	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Fluoranthene	48		27	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Fluorene	27	U	27	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Indeno[1,2,3-cd]pyrene	66		27	9.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
1-Methylnaphthalene	40 J		54	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
2-Methylnaphthalene	39 J		54	9.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Naphthalene	51 J		54	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Phenanthrene	60		11	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Pyrene	47		27	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	45		30 - 130				04/08/13 15:18	04/10/13 16:27	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: HP0219A-CS

Lab Sample ID: 680-88913-7

Date Collected: 04/01/13 15:20

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 62.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Acenaphthylene	63	U	63	7.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Anthracene	13	U	13	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Benzo[a]anthracene	25		13	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Benzo[a]pyrene	19		16	8.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Benzo[b]fluoranthene	35		19	9.6	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Benzo[g,h,i]perylene	19 J		32	6.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Benzo[k]fluoranthene	8.4 J		13	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Chrysene	26		14	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Dibenz(a,h)anthracene	32	U	32	6.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Fluoranthene	29 J		32	6.3	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Fluorene	32	U	32	6.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Indeno[1,2,3-cd]pyrene	32	U	32	11	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
1-Methylnaphthalene	63	U	63	6.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
2-Methylnaphthalene	37 J		63	11	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Naphthalene	56 J		63	6.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Phenanthrene	50		13	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Pyrene	25 J		32	5.8	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	51		30 - 130				04/08/13 15:18	04/10/13 16:42	1

Client Sample ID: FM0207A-CS

Lab Sample ID: 680-88913-8

Date Collected: 04/01/13 14:25

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 67.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	29	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Acenaphthylene	59	U	59	7.3	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Anthracene	12	U	12	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Benzo[a]anthracene	27		12	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Benzo[a]pyrene	19		15	7.6	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Benzo[b]fluoranthene	32		18	8.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Benzo[g,h,i]perylene	18 J		29	6.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Benzo[k]fluoranthene	12		12	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Chrysene	25		13	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Dibenz(a,h)anthracene	29	U	29	6.0	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Fluoranthene	28 J		29	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Fluorene	29	U	29	6.0	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Indeno[1,2,3-cd]pyrene	54		29	10	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
1-Methylnaphthalene	59	U	59	6.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
2-Methylnaphthalene	37 J		59	10	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Naphthalene	48 J		59	6.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Phenanthrene	49		12	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Pyrene	24 J		29	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		30 - 130				04/08/13 15:18	04/10/13 16:57	1

TestAmerica Savannah

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 (OTTE, October 2012)

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0207A-CSD

Lab Sample ID: 680-88913-9

Date Collected: 04/01/13 14:30

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 57.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Acenaphthylene	68	U	68	8.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Anthracene	14	U	14	7.2	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Benzo[a]anthracene	14	U	14	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Benzo[a]pyrene	18	U	18	8.9	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Benzo[b]fluoranthene	11	J	21	10	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Benzo[g,h,i]perylene	34	U	34	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Benzo[k]fluoranthene	14	U	14	6.1	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Chrysene	15	U	15	7.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Dibenz(a,h)anthracene	34	U	34	7.0	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Fluoranthene	34	U	34	6.8	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Fluorene	34	U	34	7.0	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Indeno[1,2,3-cd]pyrene	34	U	34	12	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
1-Methylnaphthalene	68	U	68	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
2-Methylnaphthalene	68	U	68	12	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Naphthalene	68	U	68	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Phenanthrene	14	U	14	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Pyrene	6.7	J	34	6.3	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	56		30 - 130	04/08/13 15:18	04/10/13 17:12	1

Client Sample ID: FM0207B-CS

Lab Sample ID: 680-88913-10

Date Collected: 04/01/13 14:37

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 80.2

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	☼	04/08/13 15:18	04/10/13 17:28	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Anthracene	10	U	10	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Benzo[a]anthracene	72		9.7	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Benzo[a]pyrene	69		13	6.3	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Benzo[b]fluoranthene	120		15	7.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Benzo[g,h,i]perylene	65		24	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Benzo[k]fluoranthene	34		9.7	4.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Chrysene	110		11	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Dibenz(a,h)anthracene	24		24	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Fluoranthene	80		24	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Fluorene	24	U	24	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Indeno[1,2,3-cd]pyrene	86		24	8.6	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
1-Methylnaphthalene	62		49	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
2-Methylnaphthalene	71		49	8.6	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Naphthalene	81		49	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Phenanthrene	98		9.7	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Pyrene	75		24	4.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	51		30 - 130	04/08/13 15:18	04/10/13 17:28	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0207C-CS

Lab Sample ID: 680-88913-11

Date Collected: 04/01/13 14:42

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 80.0

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	25	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Acenaphthylene	49	U	49	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Anthracene	10	U	10	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Benzo[a]anthracene	70		9.9	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Benzo[a]pyrene	71		13	6.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Benzo[b]fluoranthene	120		15	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Benzo[g,h,i]perylene	62		25	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Benzo[k]fluoranthene	32		9.9	4.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Chrysene	91		11	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Dibenz(a,h)anthracene	21 J		25	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Fluoranthene	87		25	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Fluorene	25	U	25	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Indeno[1,2,3-cd]pyrene	88		25	8.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
1-Methylnaphthalene	46 J		49	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
2-Methylnaphthalene	48 J		49	8.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Naphthalene	58		49	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Phenanthrene	78		9.9	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Pyrene	88		25	4.6	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	60		30 - 130	04/08/13 15:18	04/10/13 17:43	1

Client Sample ID: FM0207D-CS

Lab Sample ID: 680-88913-12

Date Collected: 04/01/13 14:51

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Acenaphthylene	52	U	52	6.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Anthracene	11	U	11	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Benzo[a]anthracene	69		10	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Benzo[a]pyrene	70		13	6.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Benzo[b]fluoranthene	110		16	7.9	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Benzo[g,h,i]perylene	59		26	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Benzo[k]fluoranthene	37		10	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Chrysene	86		12	5.8	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Dibenz(a,h)anthracene	21 J		26	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Fluoranthene	88		26	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Fluorene	26	U	26	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Indeno[1,2,3-cd]pyrene	87		26	9.2	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
1-Methylnaphthalene	45 J		52	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
2-Methylnaphthalene	46 J		52	9.2	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Naphthalene	57		52	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Phenanthrene	77		10	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Pyrene	88		26	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	58		30 - 130	04/08/13 15:18	04/10/13 17:58	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0321A-CS

Lab Sample ID: 680-88913-13

Date Collected: 04/01/13 12:58

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 84.5

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	23	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Acenaphthylene	46	U	46	5.8	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Anthracene	46		9.8	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Benzo[a]anthracene	92		9.3	4.5	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Benzo[a]pyrene	88		12	6.0	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Benzo[b]fluoranthene	150		14	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Benzo[g,h,i]perylene	93		23	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Benzo[k]fluoranthene	51		9.3	4.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Chrysene	110		10	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Dibenz(a,h)anthracene	25		23	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Fluoranthene	99		23	4.6	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Fluorene	23	U	23	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Indeno[1,2,3-cd]pyrene	100		23	8.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
1-Methylnaphthalene	52		46	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
2-Methylnaphthalene	67		46	8.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Naphthalene	56		46	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Phenanthrene	89		9.3	4.5	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Pyrene	100		23	4.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	48		30 - 130	04/08/13 15:18	04/10/13 18:13	1

Client Sample ID: FM0321B-CS

Lab Sample ID: 680-88913-14

Date Collected: 04/01/13 13:05

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 82.7

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	☼	04/08/13 15:18	04/10/13 18:27	1
Acenaphthylene	48	U	48	6.0	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Anthracene	10	U	10	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Benzo[a]anthracene	27		9.5	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Benzo[a]pyrene	28		12	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Benzo[b]fluoranthene	60		15	7.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Benzo[g,h,i]perylene	27		24	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Benzo[k]fluoranthene	21		9.5	4.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Chrysene	42		11	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Dibenz(a,h)anthracene	8.1	J	24	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Fluoranthene	32		24	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Fluorene	24	U	24	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Indeno[1,2,3-cd]pyrene	56		24	8.5	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
1-Methylnaphthalene	48	U	48	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
2-Methylnaphthalene	48	U	48	8.5	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Naphthalene	48	U	48	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Phenanthrene	40		9.5	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Pyrene	33		24	4.4	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	47		30 - 130	04/08/13 15:18	04/10/13 18:27	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0326A-CS

Lab Sample ID: 680-88913-15

Date Collected: 04/01/13 13:35

Matrix: Solid

Date Received: 04/03/13 09:27

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	120	U	120	24	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Acenaphthylene	48	U	48	6.0	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Anthracene	10	U	10	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Benzo[a]anthracene	34		9.5	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Benzo[a]pyrene	40		12	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Benzo[b]fluoranthene	65		15	7.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Benzo[g,h,i]perylene	35		24	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Benzo[k]fluoranthene	22		9.5	4.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Chrysene	49		11	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Dibenz(a,h)anthracene	11 J		24	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Fluoranthene	50		24	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Fluorene	24	U	24	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Indeno[1,2,3-cd]pyrene	64		24	8.5	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
1-Methylnaphthalene	48	U	48	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
2-Methylnaphthalene	33 J		48	8.5	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Naphthalene	48	U	48	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Phenanthrene	49		9.5	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Pyrene	47		24	4.4	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	46		30 - 130				04/08/13 15:18	04/10/13 18:42	1

Client Sample ID: FM0326B-CS

Lab Sample ID: 680-88913-16

Date Collected: 04/01/13 13:44

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Acenaphthylene	200	U	200	26	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Anthracene	43	U	43	21	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Benzo[a]anthracene	110		41	20	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Benzo[a]pyrene	100		53	27	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Benzo[b]fluoranthene	180		62	31	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Benzo[g,h,i]perylene	89 J		100	22	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Benzo[k]fluoranthene	52		41	18	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Chrysene	120		46	23	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Dibenz(a,h)anthracene	27 J		100	21	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Fluoranthene	130		100	20	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Fluorene	100	U	100	21	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Indeno[1,2,3-cd]pyrene	220		100	36	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
1-Methylnaphthalene	200	U	200	22	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
2-Methylnaphthalene	200	U	200	36	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Naphthalene	200	U	200	22	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Phenanthrene	160		41	20	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Pyrene	110		100	19	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		30 - 130				04/08/13 15:18	04/10/13 18:57	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: 040213-RB-sieve

Lab Sample ID: 680-88913-17

Date Collected: 04/02/13 09:10

Matrix: Water

Date Received: 04/03/13 09:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.49	ug/L		04/09/13 14:11	04/11/13 13:14	1
Acenaphthylene	0.97	U	0.97	0.24	ug/L		04/09/13 14:11	04/11/13 13:14	1
Anthracene	0.19	U	0.19	0.074	ug/L		04/09/13 14:11	04/11/13 13:14	1
Benzo[a]anthracene	0.19	U	0.19	0.049	ug/L		04/09/13 14:11	04/11/13 13:14	1
Benzo[a]pyrene	0.19	U	0.19	0.055	ug/L		04/09/13 14:11	04/11/13 13:14	1
Benzo[b]fluoranthene	0.19	U	0.19	0.049	ug/L		04/09/13 14:11	04/11/13 13:14	1
Benzo[g,h,i]perylene	0.49	U	0.49	0.097	ug/L		04/09/13 14:11	04/11/13 13:14	1
Benzo[k]fluoranthene	0.19	U	0.19	0.055	ug/L		04/09/13 14:11	04/11/13 13:14	1
Chrysene	0.19	U	0.19	0.067	ug/L		04/09/13 14:11	04/11/13 13:14	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.049	ug/L		04/09/13 14:11	04/11/13 13:14	1
Fluoranthene	0.49	U	0.49	0.052	ug/L		04/09/13 14:11	04/11/13 13:14	1
Fluorene	1.9	U	1.9	0.49	ug/L		04/09/13 14:11	04/11/13 13:14	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.049	ug/L		04/09/13 14:11	04/11/13 13:14	1
1-Methylnaphthalene	1.9	U	1.9	0.49	ug/L		04/09/13 14:11	04/11/13 13:14	1
2-Methylnaphthalene	1.9	U	1.9	0.49	ug/L		04/09/13 14:11	04/11/13 13:14	1
Naphthalene	1.9	U	1.9	0.24	ug/L		04/09/13 14:11	04/11/13 13:14	1
Phenanthrene	0.49	U	0.49	0.19	ug/L		04/09/13 14:11	04/11/13 13:14	1
Pyrene	0.49	U	0.49	0.086	ug/L		04/09/13 14:11	04/11/13 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	63		30 - 130				04/09/13 14:11	04/11/13 13:14	1

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

ANALYTICAL REPORT

Job Number: 680-88913-1

SDG Number: 680088913-1

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
4/22/2013 2:31 PM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

04/22/2013

Revision: 1

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: 680-88913-1

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 04/03/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0116A-CS-SP (680-88913-1), CV0116B-CS-SP (680-88913-2), CV0501A-CS-SP (680-88913-3), CV0501B-CS-SP (680-88913-4), FM0128A-CS-SP (680-88913-5), FM0128B-CS-SP (680-88913-6), HP0219A-CS (680-88913-7), FM0207A-CS (680-88913-8), FM0207A-CSD (680-88913-9), FM0207B-CS (680-88913-10), FM0207C-CS (680-88913-11), FM0207D-CS (680-88913-12), FM0321A-CS (680-88913-13), FM0321B-CS (680-88913-14), FM0326A-CS (680-88913-15) and FM0326B-CS (680-88913-16) were analyzed for Semivolatile Organic Compounds by GCMS -Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/08/2013 and analyzed on 04/10/2013.

Method(s) 8270C LL: The following samples were diluted due to the color of the extracts: FM0326B-CS (680-88913-16). Elevated reporting limits (RL) are provided. Batch: 136318.

Method(s) 8270C LL: The matrix spike (MS) recoveries associated with batch 136371 were outside control limits, biased low: (640-42937-15 MS). Matrix interference is suspected. The associated laboratory control sample (LCS) recovery met acceptance criteria.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 040213-RB-sieve (680-88913-17) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/09/2013 and analyzed on 04/11/2013.

Report revised on 4/22/2013 to include missing initial calibration verification data.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-1

Sdg Number: 680088913-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88913-1	CV0116A-CS-SP	Solid	04/01/2013 1430	04/03/2013 0927
680-88913-2	CV0116B-CS-SP	Solid	04/01/2013 1440	04/03/2013 0927
680-88913-2MS	CV0116B-CS-SP	Solid	04/01/2013 1440	04/03/2013 0927
680-88913-2MSD	CV0116B-CS-SP	Solid	04/01/2013 1440	04/03/2013 0927
680-88913-3	CV0501A-CS-SP	Solid	04/01/2013 1350	04/03/2013 0927
680-88913-4	CV0501B-CS-SP	Solid	04/01/2013 1400	04/03/2013 0927
680-88913-5	FM0128A-CS-SP	Solid	04/01/2013 1320	04/03/2013 0927
680-88913-6	FM0128B-CS-SP	Solid	04/01/2013 1330	04/03/2013 0927
680-88913-7	HP0219A-CS	Solid	04/01/2013 1520	04/03/2013 0927
680-88913-8	FM0207A-CS	Solid	04/01/2013 1425	04/03/2013 0927
680-88913-9	FM0207A-CSD	Solid	04/01/2013 1430	04/03/2013 0927
680-88913-10	FM0207B-CS	Solid	04/01/2013 1437	04/03/2013 0927
680-88913-11	FM0207C-CS	Solid	04/01/2013 1442	04/03/2013 0927
680-88913-12	FM0207D-CS	Solid	04/01/2013 1451	04/03/2013 0927
680-88913-13	FM0321A-CS	Solid	04/01/2013 1258	04/03/2013 0927
680-88913-14	FM0321B-CS	Solid	04/01/2013 1305	04/03/2013 0927
680-88913-15	FM0326A-CS	Solid	04/01/2013 1335	04/03/2013 0927
680-88913-16	FM0326B-CS	Solid	04/01/2013 1344	04/03/2013 0927
680-88913-17	040213-RB-sieve	Water	04/02/2013 0910	04/03/2013 0927

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-1

Sdg Number: 680088913-1

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: 680-88913-1

Sdg Number: 680088913-1

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: 680-88913-1

Sdg Number: 680088913-1

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

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-1

Sdg Number: 680088913-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136235					
LCS 660-136235/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136235/1-A	Method Blank	T	Solid	3546	
680-88913-1	CV0116A-CS-SP	T	Solid	3546	
680-88913-2	CV0116B-CS-SP	T	Solid	3546	
680-88913-2MS	Matrix Spike	T	Solid	3546	
680-88913-2MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88913-3	CV0501A-CS-SP	T	Solid	3546	
680-88913-4	CV0501B-CS-SP	T	Solid	3546	
680-88913-5	FM0128A-CS-SP	T	Solid	3546	
680-88913-6	FM0128B-CS-SP	T	Solid	3546	
680-88913-7	HP0219A-CS	T	Solid	3546	
680-88913-8	FM0207A-CS	T	Solid	3546	
680-88913-9	FM0207A-CSD	T	Solid	3546	
680-88913-10	FM0207B-CS	T	Solid	3546	
680-88913-11	FM0207C-CS	T	Solid	3546	
680-88913-12	FM0207D-CS	T	Solid	3546	
680-88913-13	FM0321A-CS	T	Solid	3546	
680-88913-14	FM0321B-CS	T	Solid	3546	
680-88913-15	FM0326A-CS	T	Solid	3546	
680-88913-16	FM0326B-CS	T	Solid	3546	
Prep Batch: 660-136253					
640-42937-C-15-D MS	Matrix Spike	E	Water		
Prep Batch: 660-136268					
LCS 660-136268/2-A	Lab Control Sample	T	Water	3520C	
MB 660-136268/1-A	Method Blank	T	Water	3520C	
640-42937-C-15-D MS	Matrix Spike	E	Water	3520C	660-136253
680-88913-17	040213-RB-sieve	T	Water	3520C	
680-88913-17DU	Duplicate	T	Water	3520C	
Analysis Batch:660-136309					
LCS 660-136235/2-A	Lab Control Sample	T	Solid	8270C LL	660-136235

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-1

Sdg Number: 680088913-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136318					
MB 660-136235/1-A	Method Blank	T	Solid	8270C LL	660-136235
680-88913-1	CV0116A-CS-SP	T	Solid	8270C LL	660-136235
680-88913-2	CV0116B-CS-SP	T	Solid	8270C LL	660-136235
680-88913-2MS	Matrix Spike	T	Solid	8270C LL	660-136235
680-88913-2MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136235
680-88913-3	CV0501A-CS-SP	T	Solid	8270C LL	660-136235
680-88913-4	CV0501B-CS-SP	T	Solid	8270C LL	660-136235
680-88913-5	FM0128A-CS-SP	T	Solid	8270C LL	660-136235
680-88913-6	FM0128B-CS-SP	T	Solid	8270C LL	660-136235
680-88913-7	HP0219A-CS	T	Solid	8270C LL	660-136235
680-88913-8	FM0207A-CS	T	Solid	8270C LL	660-136235
680-88913-9	FM0207A-CSD	T	Solid	8270C LL	660-136235
680-88913-10	FM0207B-CS	T	Solid	8270C LL	660-136235
680-88913-11	FM0207C-CS	T	Solid	8270C LL	660-136235
680-88913-12	FM0207D-CS	T	Solid	8270C LL	660-136235
680-88913-13	FM0321A-CS	T	Solid	8270C LL	660-136235
680-88913-14	FM0321B-CS	T	Solid	8270C LL	660-136235
680-88913-15	FM0326A-CS	T	Solid	8270C LL	660-136235
680-88913-16	FM0326B-CS	T	Solid	8270C LL	660-136235
Analysis Batch:660-136371					
LCS 660-136268/2-A	Lab Control Sample	T	Water	8270C LL	660-136268
MB 660-136268/1-A	Method Blank	T	Water	8270C LL	660-136268
640-42937-C-15-D MS	Matrix Spike	E	Water	8270C LL	660-136268
680-88913-17	040213-RB-sieve	T	Water	8270C LL	660-136268
680-88913-17DU	Duplicate	T	Water	8270C LL	660-136268

Report Basis

E = SPLP East

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-1

Sdg Number: 680088913-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-136123					
680-88913-1	CV0116A-CS-SP	T	Solid	Moisture	
680-88913-2	CV0116B-CS-SP	T	Solid	Moisture	
680-88913-2MS	Matrix Spike	T	Solid	Moisture	
680-88913-2MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88913-3	CV0501A-CS-SP	T	Solid	Moisture	
680-88913-4	CV0501B-CS-SP	T	Solid	Moisture	
680-88913-5	FM0128A-CS-SP	T	Solid	Moisture	
680-88913-6	FM0128B-CS-SP	T	Solid	Moisture	
680-88913-7	HP0219A-CS	T	Solid	Moisture	
680-88913-8	FM0207A-CS	T	Solid	Moisture	
680-88913-9	FM0207A-CSD	T	Solid	Moisture	
680-88913-10	FM0207B-CS	T	Solid	Moisture	
680-88913-11	FM0207C-CS	T	Solid	Moisture	
680-88913-12	FM0207D-CS	T	Solid	Moisture	
680-88913-13	FM0321A-CS	T	Solid	Moisture	
680-88913-14	FM0321B-CS	T	Solid	Moisture	
680-88913-15	FM0326A-CS	T	Solid	Moisture	
680-88913-16	FM0326B-CS	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMA5973 Analysis Batch Number: 136269Lab Sample ID: IC 660-136269/5 Client Sample ID: _____Date Analyzed: 04/09/13 11:04 Lab File ID: 1AD09005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.47	Baseline Event	cantins	04/09/13 12:30
Benzo[g,h,i]perylene	8.65	Baseline Event	cantins	04/09/13 12:31

Lab Sample ID: IC 660-136269/6 Client Sample ID: _____Date Analyzed: 04/09/13 11:19 Lab File ID: 1AD09006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.46	Baseline Event	cantins	04/09/13 12:31

Lab Sample ID: IC 660-136269/9 Client Sample ID: _____Date Analyzed: 04/09/13 12:03 Lab File ID: 1AD09009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.44	Baseline Event	cantins	04/09/13 12:32

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMA5973 Analysis Batch Number: 136318Lab Sample ID: 680-88913-1 Client Sample ID: CV0116A-CS-SPDate Analyzed: 04/10/13 14:42 Lab File ID: 1AD10011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	04/11/13 10:37
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	04/11/13 10:37
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	04/11/13 10:37

Lab Sample ID: 680-88913-2 Client Sample ID: CV0116B-CS-SPDate Analyzed: 04/10/13 14:57 Lab File ID: 1AD10012.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	04/10/13 15:53
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	04/10/13 15:53
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	04/10/13 15:53
Benzo[g,h,i]perylene	8.64	Baseline Event	cantins	04/10/13 15:54

Lab Sample ID: 680-88913-3 Client Sample ID: CV0501A-CS-SPDate Analyzed: 04/10/13 15:42 Lab File ID: 1AD10015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	04/11/13 10:58
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	04/11/13 10:58
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	04/11/13 10:59

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMA5973 Analysis Batch Number: 136318Lab Sample ID: 680-88913-4 Client Sample ID: CV0501B-CS-SPDate Analyzed: 04/10/13 15:57 Lab File ID: 1AD10016.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	04/11/13 11:02
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	04/11/13 11:02
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	04/11/13 11:03

Lab Sample ID: 680-88913-5 Client Sample ID: FM0128A-CS-SPDate Analyzed: 04/10/13 16:12 Lab File ID: 1AD10017.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	04/11/13 11:05
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	04/11/13 11:06
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	04/11/13 11:06

Lab Sample ID: 680-88913-6 Client Sample ID: FM0128B-CS-SPDate Analyzed: 04/10/13 16:27 Lab File ID: 1AD10018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	04/11/13 11:07
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	04/11/13 11:07

Lab Sample ID: 680-88913-7 Client Sample ID: HP0219A-CSDate Analyzed: 04/10/13 16:42 Lab File ID: 1AD10019.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	04/11/13 11:10
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	04/11/13 11:10

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMA5973 Analysis Batch Number: 136318Lab Sample ID: 680-88913-8 Client Sample ID: FM0207A-CSDate Analyzed: 04/10/13 16:57 Lab File ID: 1AD10020.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	04/11/13 11:13
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	04/11/13 11:13
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	04/11/13 11:13

Lab Sample ID: 680-88913-9 Client Sample ID: FM0207A-CSDDate Analyzed: 04/10/13 17:12 Lab File ID: 1AD10021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyrene	5.61	Analyte not Identified by the Data System	cantins	04/11/13 11:14
Benzo[b]fluoranthene	7.39	Analyte not Identified by the Data System	cantins	04/11/13 11:15

Lab Sample ID: 680-88913-10 Client Sample ID: FM0207B-CSDate Analyzed: 04/10/13 17:28 Lab File ID: 1AD10022.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	04/11/13 11:17
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	04/11/13 11:17
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	04/11/13 11:17

Lab Sample ID: 680-88913-11 Client Sample ID: FM0207C-CSDate Analyzed: 04/10/13 17:43 Lab File ID: 1AD10023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	04/11/13 11:21
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	04/11/13 11:21
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	04/11/13 11:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMA5973 Analysis Batch Number: 136318Lab Sample ID: 680-88913-12 Client Sample ID: FM0207D-CSDate Analyzed: 04/10/13 17:58 Lab File ID: 1AD10024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	04/11/13 11:22
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	04/11/13 11:22
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	04/11/13 11:22

Lab Sample ID: 680-88913-13 Client Sample ID: FM0321A-CSDate Analyzed: 04/10/13 18:13 Lab File ID: 1AD10025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	04/11/13 11:23
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	04/11/13 11:23
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	04/11/13 11:24

Lab Sample ID: 680-88913-14 Client Sample ID: FM0321B-CSDate Analyzed: 04/10/13 18:27 Lab File ID: 1AD10026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	04/11/13 11:24
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	04/11/13 11:25

Lab Sample ID: 680-88913-15 Client Sample ID: FM0326A-CSDate Analyzed: 04/10/13 18:42 Lab File ID: 1AD10027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	04/11/13 11:26
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	04/11/13 11:26
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	04/11/13 11:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMA5973 Analysis Batch Number: 136318Lab Sample ID: 680-88913-16 Client Sample ID: FM0326B-CSDate Analyzed: 04/10/13 18:57 Lab File ID: 1AD10028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	04/11/13 11:27
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	04/11/13 11:27
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	04/11/13 11:28

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMC5973 Analysis Batch Number: 136048Lab Sample ID: IC 660-136048/5 Client Sample ID: _____Date Analyzed: 04/02/13 13:26 Lab File ID: 1CD02005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	04/02/13 15:44

Lab Sample ID: IC 660-136048/6 Client Sample ID: _____Date Analyzed: 04/02/13 13:44 Lab File ID: 1CD02006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:45

Lab Sample ID: IC 660-136048/7 Client Sample ID: _____Date Analyzed: 04/02/13 14:02 Lab File ID: 1CD02007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/02/13 15:48

Lab Sample ID: IC 660-136048/8 Client Sample ID: _____Date Analyzed: 04/02/13 14:20 Lab File ID: 1CD02008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/02/13 15:49

Lab Sample ID: ICIS 660-136048/9 Client Sample ID: _____Date Analyzed: 04/02/13 14:39 Lab File ID: 1CD02009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMC5973 Analysis Batch Number: 136048Lab Sample ID: IC 660-136048/10 Client Sample ID: _____Date Analyzed: 04/02/13 14:57 Lab File ID: 1CD02010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:50

Lab Sample ID: IC 660-136048/11 Client Sample ID: _____Date Analyzed: 04/02/13 15:15 Lab File ID: 1CD02011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/02/13 15:51

Lab Sample ID: ICV 660-136048/12 Client Sample ID: _____Date Analyzed: 04/02/13 15:34 Lab File ID: 1CD02012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMC5973 Analysis Batch Number: 136309Lab Sample ID: CCVIS 660-136309/3 Client Sample ID: _____Date Analyzed: 04/10/13 12:10 Lab File ID: 1CD10003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.94	Split Peak	cantins	04/10/13 12:26

Lab Sample ID: LCS 660-136235/2-A Client Sample ID: _____Date Analyzed: 04/10/13 16:05 Lab File ID: 1CD10014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/10/13 16:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMD5973 Analysis Batch Number: 136164Lab Sample ID: IC 660-136164/15 Client Sample ID: _____Date Analyzed: 04/04/13 13:49 Lab File ID: 1DD04007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/13 12:28
Dibenz(a,h)anthracene	14.76	Baseline Event	cantins	04/05/13 12:28

Lab Sample ID: IC 660-136164/16 Client Sample ID: _____Date Analyzed: 04/04/13 14:11 Lab File ID: 1DD04008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/13 12:29
Dibenz(a,h)anthracene	14.76	Baseline Event	cantins	04/05/13 12:28

Lab Sample ID: IC 660-136164/17 Client Sample ID: _____Date Analyzed: 04/04/13 14:34 Lab File ID: 1DD04009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.74	Split Peak	cantins	04/05/13 12:29

Lab Sample ID: IC 660-136164/18 Client Sample ID: _____Date Analyzed: 04/04/13 14:57 Lab File ID: 1DD04010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.75	Split Peak	cantins	04/05/13 12:30

Lab Sample ID: ICIS 660-136164/19 Client Sample ID: _____Date Analyzed: 04/04/13 15:19 Lab File ID: 1DD04011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.76	Split Peak	cantins	04/05/13 12:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMD5973 Analysis Batch Number: 136164Lab Sample ID: IC 660-136164/20 Client Sample ID: _____Date Analyzed: 04/04/13 15:42 Lab File ID: 1DD04012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.77	Split Peak	cantins	04/05/13 12:30

Lab Sample ID: IC 660-136164/21 Client Sample ID: _____Date Analyzed: 04/04/13 16:04 Lab File ID: 1DD04013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/05/13 12:30

Lab Sample ID: ICV 660-136164/22 Client Sample ID: _____Date Analyzed: 04/04/13 16:27 Lab File ID: 1DD04014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	9.23	Baseline Event	cantins	04/05/13 13:08
Indeno[1,2,3-cd]pyrene	14.76	Split Peak	cantins	04/05/13 13:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMD5973 Analysis Batch Number: 136371Lab Sample ID: CCVIS 660-136371/4 Client Sample ID: _____Date Analyzed: 04/11/13 11:20 Lab File ID: 1DD11004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.74	Split Peak	cantins	04/11/13 11:41

Lab Sample ID: LCS 660-136268/2-A Client Sample ID: _____Date Analyzed: 04/11/13 12:28 Lab File ID: 1DD11007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.72	Split Peak	cantins	04/11/13 14:23

Lab Sample ID: 640-42937-C-15-D MS Client Sample ID: _____Date Analyzed: 04/11/13 13:36 Lab File ID: 1DD11010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.72	Split Peak	cantins	04/11/13 14:26

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.: 680-88913-1

SDG No.: 680088913-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0116A-CS-SP	680-88913-1	51
CV0116B-CS-SP	680-88913-2	65
CV0501A-CS-SP	680-88913-3	62
CV0501B-CS-SP	680-88913-4	65
FM0128A-CS-SP	680-88913-5	56
FM0128B-CS-SP	680-88913-6	45
HP0219A-CS	680-88913-7	51
FM0207A-CS	680-88913-8	58
FM0207A-CSD	680-88913-9	56
FM0207B-CS	680-88913-10	51
FM0207C-CS	680-88913-11	60
FM0207D-CS	680-88913-12	58
FM0321A-CS	680-88913-13	48
FM0321B-CS	680-88913-14	47
FM0326A-CS	680-88913-15	46
FM0326B-CS	680-88913-16	66
	MB 660-136235/1-A	79
	LCS 660-136235/2-A	77
CV0116B-CS-SP MS	680-88913-2 MS	57
CV0116B-CS-SP MSD	680-88913-2 MSD	58

OTPH = o-Terphenyl

QC LIMITS
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.: 680-88913-1

SDG No.: 680088913-1

Matrix: Water

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
040213-RB-sieve	680-88913-17	63
	MB 660-136268/1-A	86
	LCS 660-136268/2-A	84
040213-RB-sieve DU	680-88913-17 DU	74

OTPH = o-Terphenyl

QC LIMITS
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.: 680-88913-1
SDG No.: 680088913-1
Matrix: Water (SPLP East) Level: Low
GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH #
	640-42937-C-15-D MS	47

OTPH = o-Terphenyl

QC LIMITS
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.: 680-88913-1
 SDG No.: 680088913-1
 Matrix: Solid Level: Low Lab File ID: 1CD10014.D
 Lab ID: LCS 660-136235/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	655	454	69	39-130	
Acenaphthylene	655	520	79	38-130	
Anthracene	655	482	73	37-130	
Benzo[a]anthracene	655	522	80	40-130	
Benzo[a]pyrene	655	466	71	49-130	
Benzo[b]fluoranthene	655	486	74	37-130	
Benzo[g,h,i]perylene	655	453	69	32-130	
Benzo[k]fluoranthene	655	519	79	32-130	
Chrysene	655	468	71	41-130	
Dibenz(a,h)anthracene	655	497	76	27-130	
Fluoranthene	655	493	75	40-130	
Fluorene	655	484	74	40-130	
Indeno[1,2,3-cd]pyrene	655	451	69	30-130	
1-Methylnaphthalene	655	512	78	31-130	
2-Methylnaphthalene	655	471	72	33-130	
Naphthalene	655	452	69	36-130	
Phenanthrene	655	436	67	42-130	
Pyrene	655	525	80	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Matrix: Water Level: Low Lab File ID: 1DD11007.D
 Lab ID: LCS 660-136268/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	10.0	8.24	82	55-132	
Acenaphthylene	10.0	8.69	87	39-130	
Anthracene	10.0	8.08	81	39-130	
Benzo[a]anthracene	10.0	7.89	79	54-135	
Benzo[a]pyrene	10.0	4.96	50	21-130	
Benzo[b]fluoranthene	10.0	6.35	63	37-130	
Benzo[g,h,i]perylene	10.0	3.68	37	26-130	
Benzo[k]fluoranthene	10.0	5.91	59	38-130	
Chrysene	10.0	7.58	76	56-130	
Dibenz(a,h)anthracene	10.0	3.12	31	13-130	
Fluoranthene	10.0	9.09	91	60-130	
Fluorene	10.0	8.87	89	55-140	
Indeno[1,2,3-cd]pyrene	10.0	3.29	33	21-130	
1-Methylnaphthalene	10.0	8.81	88	49-130	
2-Methylnaphthalene	10.0	8.45	84	48-130	
Naphthalene	10.0	8.39	84	54-133	
Phenanthrene	10.0	8.48	85	60-136	
Pyrene	10.0	8.18	82	60-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Matrix: Water (SPLP) Level: Low Lab File ID: 1DD11010.D
 Lab ID: 640-42937-C-15-D MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	9.71	2.0 U	5.90	61	55-132	
Acenaphthylene	9.71	0.99 U	5.73	59	39-130	
Anthracene	9.71	0.20 U	5.16	53	39-130	
Benzo[a]anthracene	9.71	0.20 U	2.28	23	54-135	F
Benzo[a]pyrene	9.71	0.20 U	1.40	14	21-130	F
Benzo[b]fluoranthene	9.71	0.20 U	1.65	17	37-130	F
Benzo[g,h,i]perylene	9.71	0.50 U	1.57	16	26-130	F
Benzo[k]fluoranthene	9.71	0.20 U	1.62	17	38-130	F
Chrysene	9.71	0.20 U	2.24	23	56-130	F
Dibenz(a,h)anthracene	9.71	0.20 U	1.47	15	13-130	
Fluoranthene	9.71	0.50 U	4.47	46	60-130	F
Fluorene	9.71	2.0 U	6.08	63	55-140	
Indeno[1,2,3-cd]pyrene	9.71	0.20 U	1.42	15	21-130	F
1-Methylnaphthalene	9.71	2.0 U	6.95	72	49-130	
2-Methylnaphthalene	9.71	2.0 U	6.12	63	48-130	
Naphthalene	9.71	0.60 J	7.24	68	54-133	
Phenanthrene	9.71	0.50 U	5.50	57	60-136	F
Pyrene	9.71	0.50 U	3.85	40	60-138	F

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Matrix: Solid Level: Low Lab File ID: 1AD10013.D
 Lab ID: 680-88913-2 MS Client ID: CV0116B-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1120	170 U	576	51	39-130	
Acenaphthylene	1120	68 U	602	54	38-130	
Anthracene	1120	14 U	628	56	37-130	
Benzo[a]anthracene	1120	46	768	64	40-130	
Benzo[a]pyrene	1120	18 U	715	64	49-130	
Benzo[b]fluoranthene	1120	65	819	67	37-130	
Benzo[g,h,i]perylene	1120	44	994	85	32-130	
Benzo[k]fluoranthene	1120	27	808	70	32-130	
Chrysene	1120	60	827	68	41-130	
Dibenz(a,h)anthracene	1120	14 J	1020	89	27-130	
Fluoranthene	1120	57	689	56	40-130	
Fluorene	1120	34 U	602	54	40-130	
Indeno[1,2,3-cd]pyrene	1120	82	931	76	30-130	
1-Methylnaphthalene	1120	61 J	694	56	31-130	
2-Methylnaphthalene	1120	69	720	58	33-130	
Naphthalene	1120	73	670	53	36-130	
Phenanthrene	1120	80	654	51	42-130	
Pyrene	1120	59	818	68	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Matrix: Solid Level: Low Lab File ID: 1AD10014.D
 Lab ID: 680-88913-2 MSD Client ID: CV0116B-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1130	584	52	1	40	39-130	
Acenaphthylene	1130	612	54	2	40	38-130	
Anthracene	1130	620	55	1	40	37-130	
Benzo[a]anthracene	1130	761	63	1	40	40-130	
Benzo[a]pyrene	1130	699	62	2	40	49-130	
Benzo[b]fluoranthene	1130	817	66	0	40	37-130	
Benzo[g,h,i]perylene	1130	948	80	5	40	32-130	
Benzo[k]fluoranthene	1130	770	66	5	40	32-130	
Chrysene	1130	783	64	6	40	41-130	
Dibenz(a,h)anthracene	1130	1000	88	1	40	27-130	
Fluoranthene	1130	674	55	2	40	40-130	
Fluorene	1130	596	53	1	40	40-130	
Indeno[1,2,3-cd]pyrene	1130	898	72	4	40	30-130	
1-Methylnaphthalene	1130	708	57	2	40	31-130	
2-Methylnaphthalene	1130	729	58	1	40	33-130	
Naphthalene	1130	686	54	2	40	36-130	
Phenanthrene	1130	642	50	2	40	42-130	
Pyrene	1130	794	65	3	40	44-130	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Lab File ID: 1AD10005.D Lab Sample ID: MB 660-136235/1-A
 Matrix: Solid Date Extracted: 04/08/2013 15:18
 Instrument ID: BSMA5973 Date Analyzed: 04/10/2013 13:12
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
CV0116A-CS-SP	680-88913-1	1AD10011.D	04/10/2013 14:42
CV0116B-CS-SP	680-88913-2	1AD10012.D	04/10/2013 14:57
CV0116B-CS-SP MS	680-88913-2 MS	1AD10013.D	04/10/2013 15:12
CV0116B-CS-SP MSD	680-88913-2 MSD	1AD10014.D	04/10/2013 15:27
CV0501A-CS-SP	680-88913-3	1AD10015.D	04/10/2013 15:42
CV0501B-CS-SP	680-88913-4	1AD10016.D	04/10/2013 15:57
	LCS 660-136235/2-A	1CD10014.D	04/10/2013 16:05
FM0128A-CS-SP	680-88913-5	1AD10017.D	04/10/2013 16:12
FM0128B-CS-SP	680-88913-6	1AD10018.D	04/10/2013 16:27
HP0219A-CS	680-88913-7	1AD10019.D	04/10/2013 16:42
FM0207A-CS	680-88913-8	1AD10020.D	04/10/2013 16:57
FM0207A-CSD	680-88913-9	1AD10021.D	04/10/2013 17:12
FM0207B-CS	680-88913-10	1AD10022.D	04/10/2013 17:28
FM0207C-CS	680-88913-11	1AD10023.D	04/10/2013 17:43
FM0207D-CS	680-88913-12	1AD10024.D	04/10/2013 17:58
FM0321A-CS	680-88913-13	1AD10025.D	04/10/2013 18:13
FM0321B-CS	680-88913-14	1AD10026.D	04/10/2013 18:27
FM0326A-CS	680-88913-15	1AD10027.D	04/10/2013 18:42
FM0326B-CS	680-88913-16	1AD10028.D	04/10/2013 18:57

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Lab File ID: 1DD11006.D Lab Sample ID: MB 660-136268/1-A
Matrix: Water Date Extracted: 04/09/2013 14:11
Instrument ID: BSMD5973 Date Analyzed: 04/11/2013 12:06
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136268/2-A	1DD11007.D	04/11/2013 12:28
040213-RB-sieve	680-88913-17	1DD11009.D	04/11/2013 13:14
	640-42937-C-15-D MS	1DD11010.D	04/11/2013 13:36
040213-RB-sieve DU	680-88913-17 DU	1DD11011.D	04/11/2013 13:59

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Lab File ID: 1AD09002.D DFTPP Injection Date: 04/09/2013
Instrument ID: BSMA5973 DFTPP Injection Time: 10:18
Analysis Batch No.: 136269

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	22.5
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	24.1
70	Less than 2.0 % of mass 69	0.2 (0.9) 1
127	10.0 - 80.0 % of mass 198	36.0
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	5.9
275	10.0 - 60.0 % of mass 198	23.4
365	Greater than 1.0 % of mass 198	2.4
441	Present but less than mass 443	11.1
442	Greater than 50.0 % of mass 198	81.3
443	15.0 - 24.0 % of mass 442	16.7 (20.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-136269/3	1AD09003.D	04/09/2013	10:31
	IC 660-136269/4	1AD09004.D	04/09/2013	10:48
	IC 660-136269/5	1AD09005.D	04/09/2013	11:04
	IC 660-136269/6	1AD09006.D	04/09/2013	11:19
	IC 660-136269/7	1AD09007.D	04/09/2013	11:33
	IC 660-136269/8	1AD09008.D	04/09/2013	11:49
	IC 660-136269/9	1AD09009.D	04/09/2013	12:03
	ICV 660-136269/12	1AD09012.D	04/09/2013	13:51

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Lab File ID: 1AD10002.D DFTPP Injection Date: 04/10/2013
Instrument ID: BSMA5973 DFTPP Injection Time: 12:19
Analysis Batch No.: 136318

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	29.9
68	Less than 2.0 % of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	30.7
70	Less than 2.0 % of mass 69	0.4 (1.3) 1
127	10.0 - 80.0 % of mass 198	41.5
197	Less than 2.0 % of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.4
275	10.0 - 60.0 % of mass 198	22.3
365	Greater than 1.0 % of mass 198	2.2
441	Present but less than mass 443	9.1
442	Greater than 50.0 % of mass 198	65.2
443	15.0 - 24.0 % of mass 442	13.3 (20.4) 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
	CCVIS 660-136318/3	1AD10003.D	04/10/2013	12:41
	MB 660-136235/1-A	1AD10005.D	04/10/2013	13:12
CV0116A-CS-SP	680-88913-1	1AD10011.D	04/10/2013	14:42
CV0116B-CS-SP	680-88913-2	1AD10012.D	04/10/2013	14:57
CV0116B-CS-SP MS	680-88913-2 MS	1AD10013.D	04/10/2013	15:12
CV0116B-CS-SP MSD	680-88913-2 MSD	1AD10014.D	04/10/2013	15:27
CV0501A-CS-SP	680-88913-3	1AD10015.D	04/10/2013	15:42
CV0501B-CS-SP	680-88913-4	1AD10016.D	04/10/2013	15:57
FM0128A-CS-SP	680-88913-5	1AD10017.D	04/10/2013	16:12
FM0128B-CS-SP	680-88913-6	1AD10018.D	04/10/2013	16:27
HP0219A-CS	680-88913-7	1AD10019.D	04/10/2013	16:42
FM0207A-CS	680-88913-8	1AD10020.D	04/10/2013	16:57
FM0207A-CSD	680-88913-9	1AD10021.D	04/10/2013	17:12
FM0207B-CS	680-88913-10	1AD10022.D	04/10/2013	17:28
FM0207C-CS	680-88913-11	1AD10023.D	04/10/2013	17:43
FM0207D-CS	680-88913-12	1AD10024.D	04/10/2013	17:58
FM0321A-CS	680-88913-13	1AD10025.D	04/10/2013	18:13
FM0321B-CS	680-88913-14	1AD10026.D	04/10/2013	18:27
FM0326A-CS	680-88913-15	1AD10027.D	04/10/2013	18:42
FM0326B-CS	680-88913-16	1AD10028.D	04/10/2013	18:57

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Lab File ID: 1CD02002.D DFTPP Injection Date: 04/02/2013
Instrument ID: BSMC5973 DFTPP Injection Time: 11:31
Analysis Batch No.: 136048

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	34.9
68	Less than 2.0 % of mass 69	0.8 (1.6) 1
69	Mass 69 relative abundance	49.9
70	Less than 2.0 % of mass 69	0.4 (0.9) 1
127	10.0 - 80.0 % of mass 198	42.2
197	Less than 2.0 % of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.6
275	10.0 - 60.0 % of mass 198	21.5
365	Greater than 1.0 % of mass 198	3.4
441	Present but less than mass 443	10.2
442	Greater than 50.0 % of mass 198	56.7
443	15.0 - 24.0 % of mass 442	11.0 (19.4) 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 660-136048/5	1CD02005.D	04/02/2013	13:26
	IC 660-136048/6	1CD02006.D	04/02/2013	13:44
	IC 660-136048/7	1CD02007.D	04/02/2013	14:02
	IC 660-136048/8	1CD02008.D	04/02/2013	14:20
	ICIS 660-136048/9	1CD02009.D	04/02/2013	14:39
	IC 660-136048/10	1CD02010.D	04/02/2013	14:57
	IC 660-136048/11	1CD02011.D	04/02/2013	15:15
	ICV 660-136048/12	1CD02012.D	04/02/2013	15:34

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Lab File ID: 1CD10002.D DFTPP Injection Date: 04/10/2013
Instrument ID: BSMC5973 DFTPP Injection Time: 11:53
Analysis Batch No.: 136309

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	39.7
68	Less than 2.0 % of mass 69	0.4 (0.9) 1
69	Mass 69 relative abundance	49.4
70	Less than 2.0 % of mass 69	0.0 (0.0) 1
127	10.0 - 80.0 % of mass 198	46.7
197	Less than 2.0 % of mass 198	1.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.9
275	10.0 - 60.0 % of mass 198	19.9
365	Greater than 1.0 % of mass 198	4.5
441	Present but less than mass 443	12.8
442	Greater than 50.0 % of mass 198	68.7
443	15.0 - 24.0 % of mass 442	12.9 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136309/3	1CD10003.D	04/10/2013	12:10
	LCS 660-136235/2-A	1CD10014.D	04/10/2013	16:05

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Lab File ID: 1DD04003.D DFTPP Injection Date: 04/04/2013
Instrument ID: BSMD5973 DFTPP Injection Time: 12:15
Analysis Batch No.: 136164

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	44.9
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	45.4
70	Less than 2.0 % of mass 69	0.2 (0.3) 1
127	10.0 - 80.0 % of mass 198	50.5
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	6.9
275	10.0 - 60.0 % of mass 198	26.7
365	Greater than 1.0 % of mass 198	3.1
441	Present but less than mass 443	3.3
442	Greater than 50.0 % of mass 198	67.1
443	15.0 - 24.0 % of mass 442	13.9 (20.6) 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 660-136164/15	1DD04007.D	04/04/2013	13:49
	IC 660-136164/16	1DD04008.D	04/04/2013	14:11
	IC 660-136164/17	1DD04009.D	04/04/2013	14:34
	IC 660-136164/18	1DD04010.D	04/04/2013	14:57
	ICIS 660-136164/19	1DD04011.D	04/04/2013	15:19
	IC 660-136164/20	1DD04012.D	04/04/2013	15:42
	IC 660-136164/21	1DD04013.D	04/04/2013	16:04
	ICV 660-136164/22	1DD04014.D	04/04/2013	16:27

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Lab File ID: 1DD11003.D DFTPP Injection Date: 04/11/2013
Instrument ID: BSMD5973 DFTPP Injection Time: 11:00
Analysis Batch No.: 136371

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	48.1
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	49.4
70	Less than 2.0 % of mass 69	0.0 (0.0) 1
127	10.0 - 80.0 % of mass 198	51.1
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.0
275	10.0 - 60.0 % of mass 198	26.6
365	Greater than 1.0 % of mass 198	3.7
441	Present but less than mass 443	2.3
442	Greater than 50.0 % of mass 198	66.7
443	15.0 - 24.0 % of mass 442	13.3 (19.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136371/4	1DD11004.D	04/11/2013	11:20
	MB 660-136268/1-A	1DD11006.D	04/11/2013	12:06
	LCS 660-136268/2-A	1DD11007.D	04/11/2013	12:28
040213-RB-sieve	680-88913-17	1DD11009.D	04/11/2013	13:14
	640-42937-C-15-D MS	1DD11010.D	04/11/2013	13:36
040213-RB-sieve DU	680-88913-17 DU	1DD11011.D	04/11/2013	13:59

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Sample No.: ICIS 660-136269/3 Date Analyzed: 04/09/2013 10:31
Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1AD09003.D Heated Purge: (Y/N) N
Calibration ID: 2879

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1629167	2.59	861420	3.62	1542880	4.57
UPPER LIMIT	3258334	3.09	1722840	4.12	3085760	5.07
LOWER LIMIT	814584	2.09	430710	3.12	771440	4.07
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136269/12		1542771	2.59	886874	3.63	1631736 4.58

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Sample No.: ICIS 660-136269/3 Date Analyzed: 04/09/2013 10:31
Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1AD09003.D Heated Purge: (Y/N) N
Calibration ID: 2879

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1527423	6.60	1682694	7.68		
UPPER LIMIT	3054846	7.10	3365388	8.18		
LOWER LIMIT	763712	6.10	841347	7.18		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136269/12		1541115	6.60	1781032	7.69	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Sample No.: CCVIS 660-136318/3 Date Analyzed: 04/10/2013 12:41
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AD10003.D Heated Purge: (Y/N) N
 Calibration ID: 2879

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1583411	2.58	832961	3.62	1461417	4.57
UPPER LIMIT		3166822	3.08	1665922	4.12	2922834	5.07
LOWER LIMIT		791706	2.08	416481	3.12	730709	4.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136235/1-A		1715976	2.59	934394	3.62	1637997	4.57
680-88913-1	CV0116A-CS-SP	1615175	2.59	840512	3.62	1357049	4.57
680-88913-2	CV0116B-CS-SP	1626804	2.59	874973	3.62	1414858	4.57
680-88913-2 MS	CV0116B-CS-SP MS	1575822	2.59	867858	3.62	1416367	4.57
680-88913-2 MSD	CV0116B-CS-SP MSD	1581304	2.59	854618	3.62	1373331	4.57
680-88913-3	CV0501A-CS-SP	1537459	2.59	792487	3.62	1269343	4.57
680-88913-4	CV0501B-CS-SP	1696474	2.59	916683	3.62	1452915	4.57
680-88913-5	FM0128A-CS-SP	1647842	2.59	854672	3.62	1362433	4.57
680-88913-6	FM0128B-CS-SP	1607446	2.59	847441	3.62	1344503	4.57
680-88913-7	HP0219A-CS	1666449	2.59	919901	3.62	1461316	4.57
680-88913-8	FM0207A-CS	1627374	2.59	882012	3.62	1376103	4.57
680-88913-9	FM0207A-CSD	1676153	2.59	912314	3.62	1440715	4.57
680-88913-10	FM0207B-CS	1595339	2.59	830615	3.62	1329471	4.57
680-88913-11	FM0207C-CS	1599516	2.59	855087	3.62	1305250	4.57
680-88913-12	FM0207D-CS	1622627	2.59	870576	3.62	1347303	4.57
680-88913-13	FM0321A-CS	1476078	2.59	796806	3.62	1220544	4.57
680-88913-14	FM0321B-CS	1650932	2.59	881163	3.62	1350947	4.57
680-88913-15	FM0326A-CS	1626190	2.59	860786	3.62	1317459	4.58
680-88913-16	FM0326B-CS	1608702	2.59	844730	3.62	1338295	4.58

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Sample No.: CCVIS 660-136318/3 Date Analyzed: 04/10/2013 12:41
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AD10003.D Heated Purge: (Y/N) N
 Calibration ID: 2879

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	1381890	6.58	1422554	7.66		
UPPER LIMIT	2763780	7.08	2845108	8.16		
LOWER LIMIT	690945	6.08	711277	7.16		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136235/1-A		1740673	6.58	1753269	7.66	
680-88913-1	CV0116A-CS-SP	1247542	6.59	1566546	7.68	
680-88913-2	CV0116B-CS-SP	1289497	6.58	1541084	7.67	
680-88913-2 MS	CV0116B-CS-SP MS	1259358	6.59	1561065	7.67	
680-88913-2 MSD	CV0116B-CS-SP MSD	1260635	6.59	1578961	7.67	
680-88913-3	CV0501A-CS-SP	1222740	6.59	1511597	7.68	
680-88913-4	CV0501B-CS-SP	1308246	6.59	1534296	7.67	
680-88913-5	FM0128A-CS-SP	1301682	6.59	1581379	7.67	
680-88913-6	FM0128B-CS-SP	1237563	6.59	1535615	7.67	
680-88913-7	HP0219A-CS	1363928	6.59	1603722	7.68	
680-88913-8	FM0207A-CS	1358115	6.59	1617339	7.67	
680-88913-9	FM0207A-CSD	1417892	6.59	1661217	7.68	
680-88913-10	FM0207B-CS	1307403	6.59	1609508	7.68	
680-88913-11	FM0207C-CS	1287343	6.59	1575536	7.69	
680-88913-12	FM0207D-CS	1298834	6.59	1571021	7.68	
680-88913-13	FM0321A-CS	1226558	6.59	1511981	7.68	
680-88913-14	FM0321B-CS	1356060	6.59	1641367	7.68	
680-88913-15	FM0326A-CS	1342761	6.59	1629381	7.68	
680-88913-16	FM0326B-CS	1360571	6.59	1633247	7.68	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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.: 680-88913-1
SDG No.: 680088913-1
Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N
Calibration ID: 2859

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	501011	3.71	361349	4.80	702974	5.75	
UPPER LIMIT	1002022	4.21	722698	5.30	1405948	6.25	
LOWER LIMIT	250506	3.21	180675	4.30	351487	5.25	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136048/12		649122	3.71	500935	4.80	955391	5.75

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N
Calibration ID: 2859

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	875378	7.69	942955	8.86		
UPPER LIMIT	1750756	8.19	1885910	9.36		
LOWER LIMIT	437689	7.19	471478	8.36		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136048/12		1249690	7.69	1306409	8.86	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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.: 680-88913-1
SDG No.: 680088913-1
Sample No.: CCVIS 660-136309/3 Date Analyzed: 04/10/2013 12:10
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD10003.D Heated Purge: (Y/N) N
Calibration ID: 2859

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	324897	3.68	222702	4.77	427547	5.71	
UPPER LIMIT	649794	4.18	445404	5.27	855094	6.21	
LOWER LIMIT	162449	3.18	111351	4.27	213774	5.21	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 660-136235/2-A		332649	3.68	240730	4.77	465300	5.72

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Sample No.: CCVIS 660-136309/3 Date Analyzed: 04/10/2013 12:10
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD10003.D Heated Purge: (Y/N) N
Calibration ID: 2859

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	562910	7.65	541225	8.81		
UPPER LIMIT	1125820	8.15	1082450	9.31		
LOWER LIMIT	281455	7.15	270613	8.31		
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 660-136235/2-A		533002	7.65	494687	8.82	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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.: 680-88913-1
SDG No.: 680088913-1
Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19
Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N
Calibration ID: 2874

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	2475113	6.09	1466924	7.77	2428512	9.03
UPPER LIMIT	4950226	6.59	2933848	8.27	4857024	9.53
LOWER LIMIT	1237557	5.59	733462	7.27	1214256	8.53
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136164/22		3619899	6.10	2333423	7.77	3845474 9.03

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19
Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N
Calibration ID: 2874

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	2464730	11.34	2515643	13.17		
UPPER LIMIT	4929460	11.84	5031286	13.67		
LOWER LIMIT	1232365	10.84	1257822	12.67		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136164/22		3963674	11.35	3958481	13.18	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Sample No.: CCVIS 660-136371/4 Date Analyzed: 04/11/2013 11:20
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD11004.D Heated Purge: (Y/N) N
 Calibration ID: 2874

		NPT		ANT		PHN		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		2567445	6.08	1567812	7.75	2682457	9.02	
UPPER LIMIT		5134890	6.58	3135624	8.25	5364914	9.52	
LOWER LIMIT		1283723	5.58	783906	7.25	1341229	8.52	
LAB SAMPLE ID		CLIENT SAMPLE ID						
MB 660-136268/1-A		2472165	6.07	1543774	7.75	2627806	9.01	
LCS 660-136268/2-A		2457854	6.07	1510366	7.75	2568874	9.01	
680-88913-17		040213-RB-sieve	2541592	6.07	1603320	7.75	2689556	9.01
640-42937-C-15-D MS		2545259	6.07	1628464	7.76	2671855	9.02	
680-88913-17 DU		040213-RB-sieve DU	2511649	6.08	1570523	7.75	2587531	9.01

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Sample No.: CCVIS 660-136371/4 Date Analyzed: 04/11/2013 11:20
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD11004.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	2805579	11.33	2830113	13.16		
UPPER LIMIT	5611158	11.83	5660226	13.66		
LOWER LIMIT	1402790	10.83	1415057	12.66		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136268/1-A		2627621	11.32	2699742	13.15	
LCS 660-136268/2-A		2662442	11.33	2706462	13.15	
680-88913-17	040213-RB-sieve	2781230	11.33	2834248	13.15	
640-42937-C-15-D MS		2791289	11.33	2759175	13.15	
680-88913-17 DU	040213-RB-sieve DU	2662848	11.32	2719810	13.15	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 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: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>CV0116A-CS-SP</u>	Lab Sample ID: <u>680-88913-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10011.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 14:30</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.37(g)</u>	Date Analyzed: <u>04/10/2013 14:42</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>25.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	63	J	130	26
208-96-8	Acenaphthylene	58		52	6.5
120-12-7	Anthracene	91		11	5.5
56-55-3	Benzo[a]anthracene	390		10	5.1
50-32-8	Benzo[a]pyrene	330		14	6.8
205-99-2	Benzo[b]fluoranthene	530		16	7.9
191-24-2	Benzo[g,h,i]perylene	300		26	5.7
207-08-9	Benzo[k]fluoranthene	160		10	4.7
218-01-9	Chrysene	460		12	5.9
53-70-3	Dibenz(a,h)anthracene	97		26	5.3
206-44-0	Fluoranthene	620		26	5.2
86-73-7	Fluorene	51		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	280		26	9.2
90-12-0	1-Methylnaphthalene	230		52	5.7
91-57-6	2-Methylnaphthalene	300		52	9.2
91-20-3	Naphthalene	200		52	5.7
85-01-8	Phenanthrene	530		10	5.1
129-00-0	Pyrene	590		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10011.D
Lab Smp Id: 680-88913-A-1-A Client Smp ID: CV0116A-CS-SP
Inj Date : 10-APR-2013 14:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88913-a-1-a
Misc Info : 680-88913-A-1-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1A-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula:

$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	25.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.592	2.584	(1.000)		1615175	40.0000	
* 6 Acenaphthene-d10	164		3.617	3.615	(1.000)		840512	40.0000	
* 10 Phenanthrene-d10	188		4.568	4.571	(1.000)		1357049	40.0000	
\$ 14 o-Terphenyl	230		4.872	4.870	(1.067)		149466	5.12566	444.6463
* 18 Chrysene-d12	240		6.587	6.585	(1.000)		1247542	40.0000	
* 23 Perylene-d12	264		7.677	7.664	(1.000)		1566546	40.0000	
2 Naphthalene	128		2.597	2.600	(1.002)		132679	2.28855	198.5297
3 2-Methylnaphthalene	141		3.003	3.001	(1.159)		118557	3.49713	303.3731
4 1-Methylnaphthalene	142		3.062	3.060	(1.181)		106100	2.66363	231.0673
5 Acenaphthylene	152		3.526	3.524	(0.975)		17242	0.66845	57.9875
7 Acenaphthene	154		3.633	3.636	(1.004)		11330	0.72521	62.9116(Q)
9 Fluorene	166		3.948	3.952	(1.092)		14678	0.58400	50.6612(Q)
11 Phenanthrene	178		4.584	4.582	(1.004)		314825	6.10447	529.5572
12 Anthracene	178		4.616	4.619	(1.011)		50180	1.04980	91.0693
13 Carbazole	167		4.744	4.747	(1.039)		25710	0.54957	47.6751

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	5.449	5.447	(1.193)	398930	7.13937	619.3333
16 Pyrene	202	5.615	5.613	(0.852)	326050	6.78238	588.3649
17 Benzo(a)anthracene	228	6.582	6.574	(0.999)	185167	4.44961	385.9997
19 Chrysene	228	6.603	6.606	(1.002)	224506	5.28972	458.8779
20 Benzo(b)fluoranthene	252	7.399	7.391	(0.964)	292064	6.14866	533.3907(M)
21 Benzo(k)fluoranthene	252	7.409	7.413	(0.965)	97306	1.84444	160.0035(QM)
22 Benzo(a)pyrene	252	7.623	7.616	(0.993)	172993	3.82987	332.2379
24 Indeno(1,2,3-cd)pyrene	276	8.435	8.427	(1.099)	129661	3.26670	283.3828(M)
25 Dibenzo(a,h)anthracene	278	8.462	8.459	(1.102)	44195	1.11591	96.8038
26 Benzo(g,h,i)perylene	276	8.659	8.651	(1.128)	146163	3.42565	297.1723

QC Flag Legend

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

Data File: 1AD10011.D

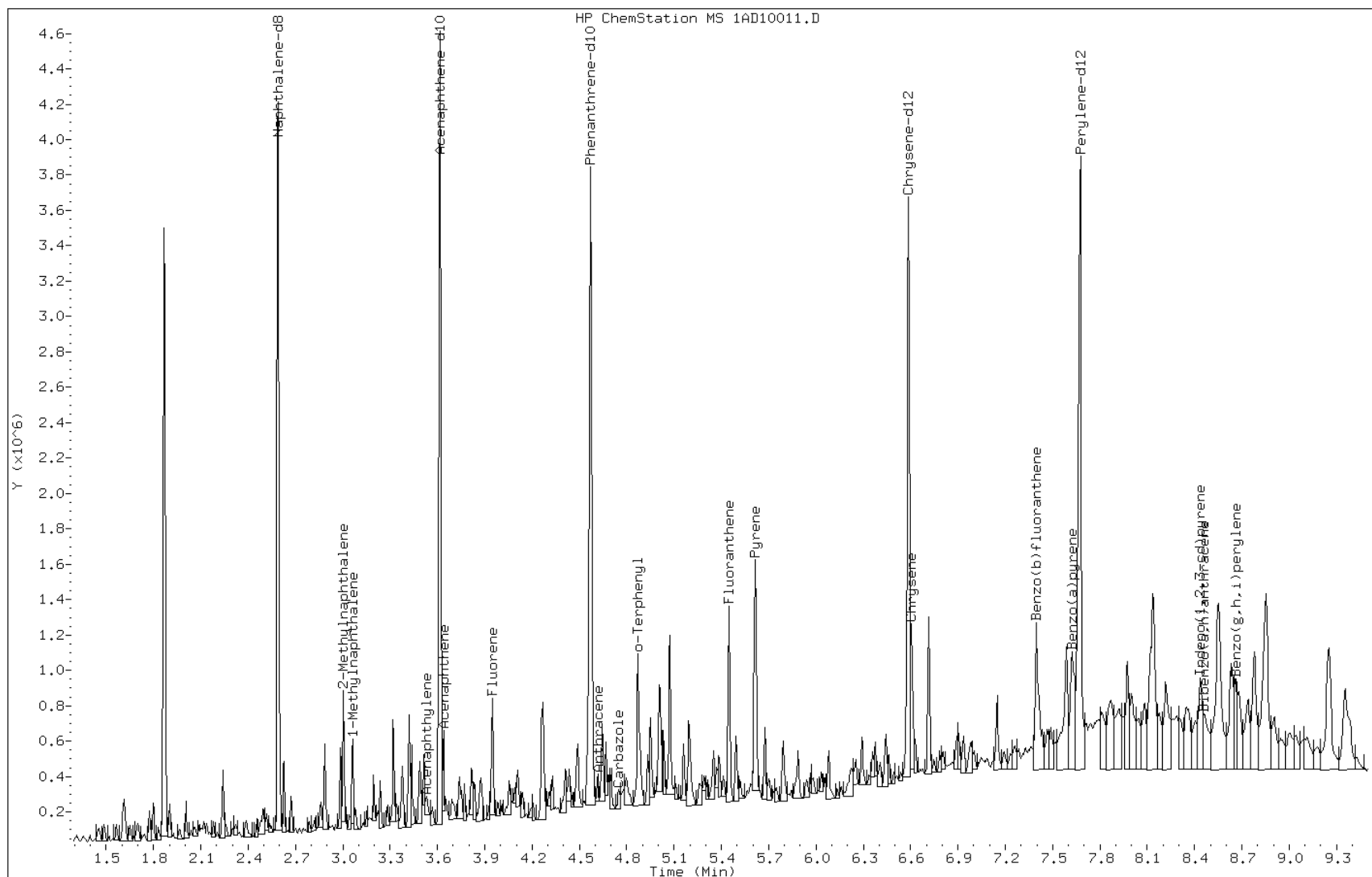
Date: 10-APR-2013 14:42

Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

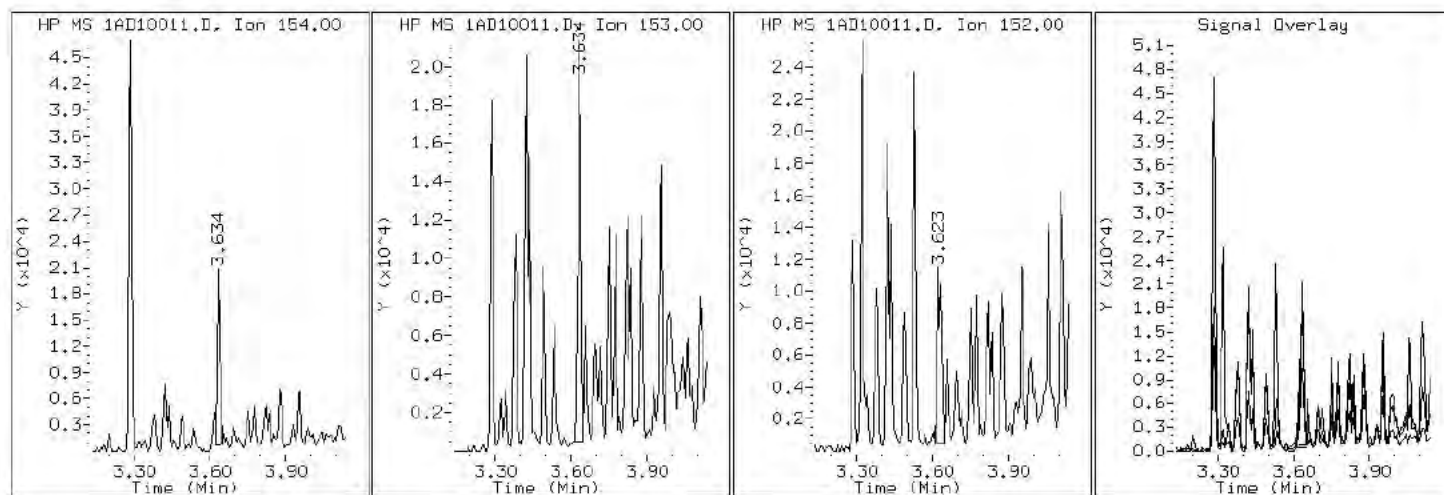
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

7 Acenaphthene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

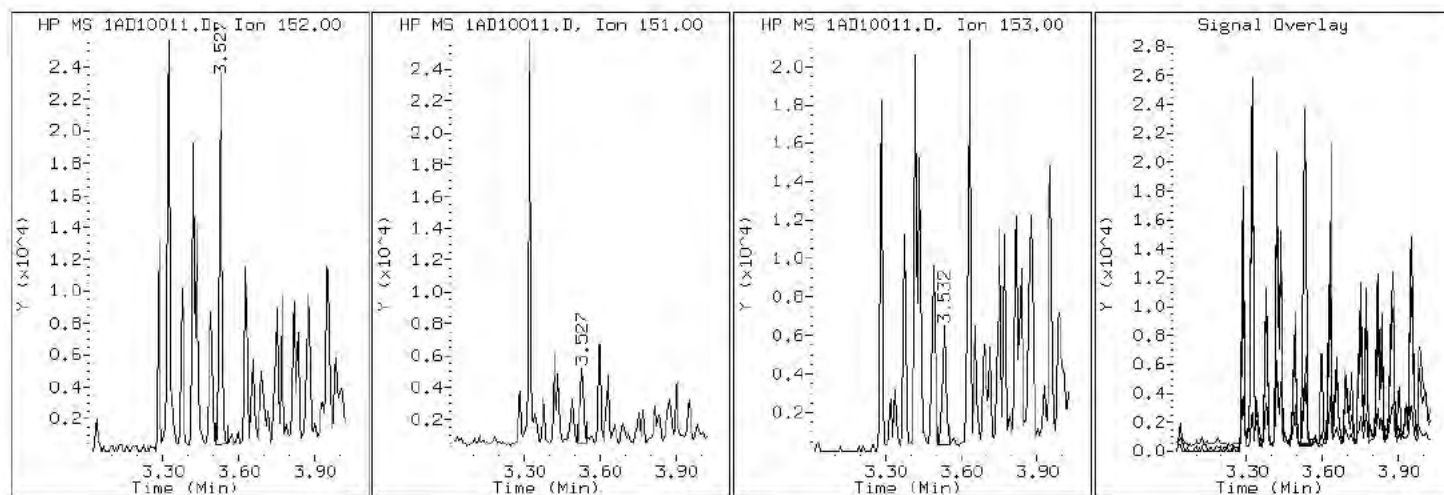
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

5 Acenaphthylene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

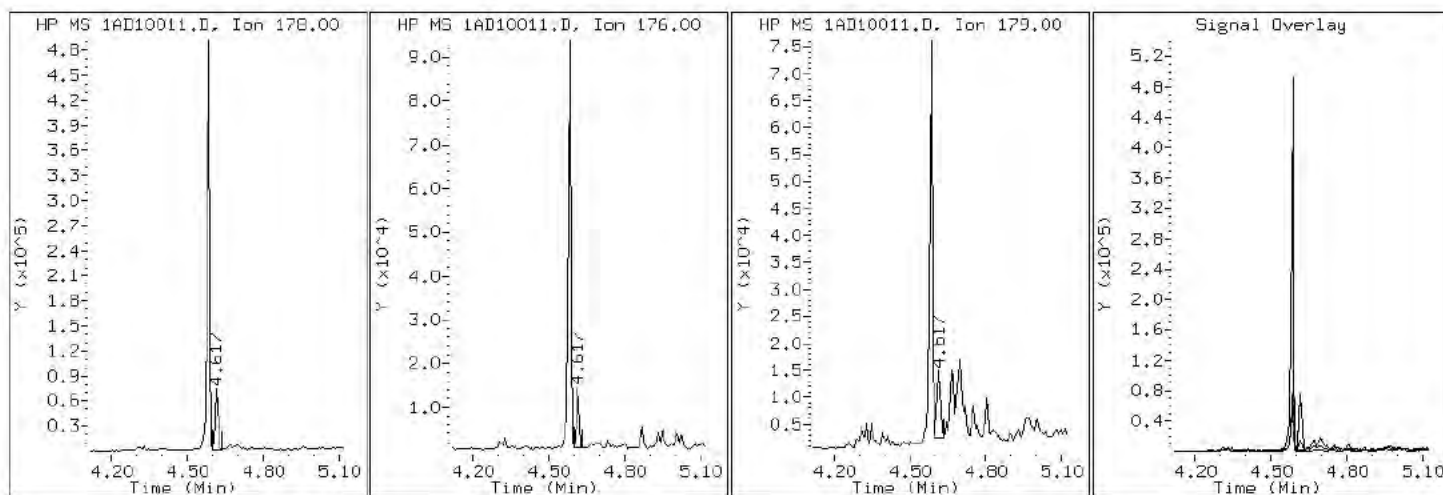
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

12 Anthracene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

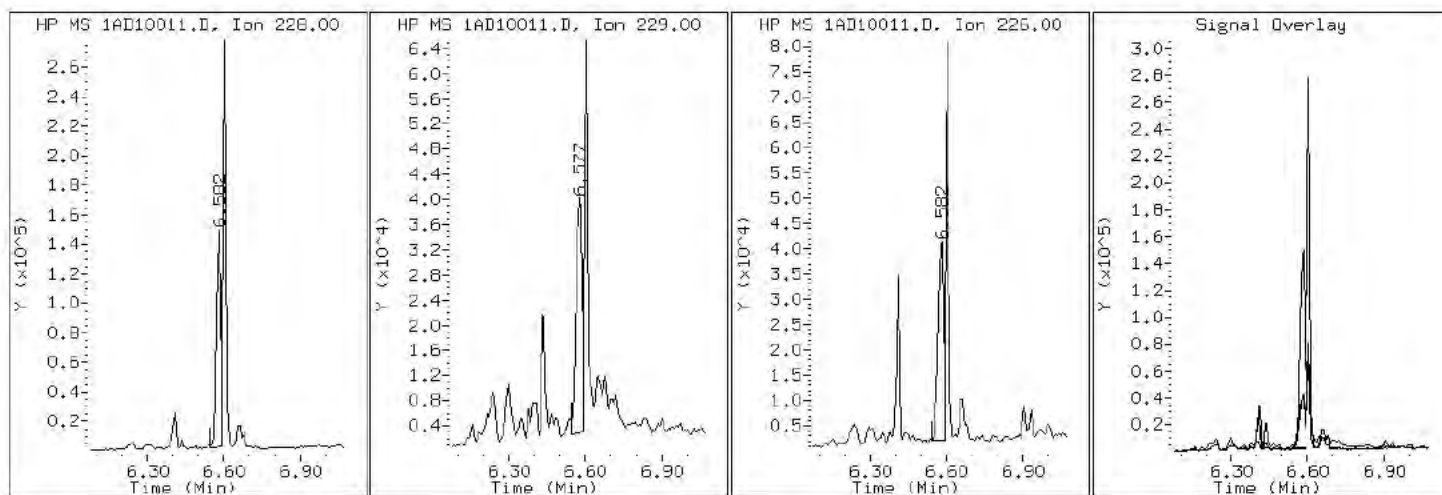
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

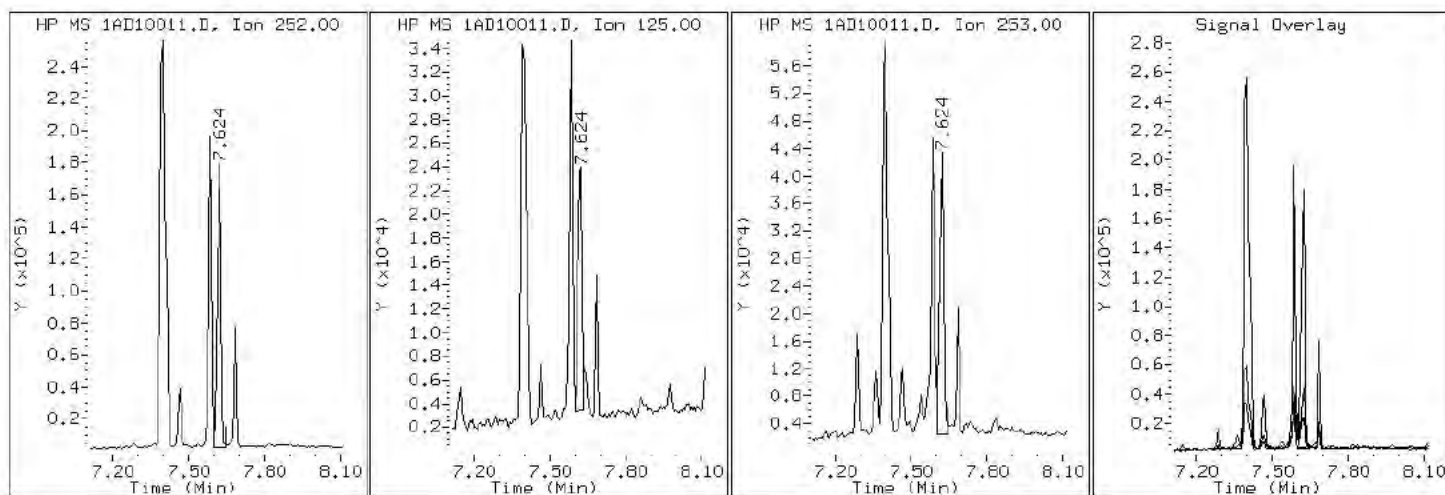
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

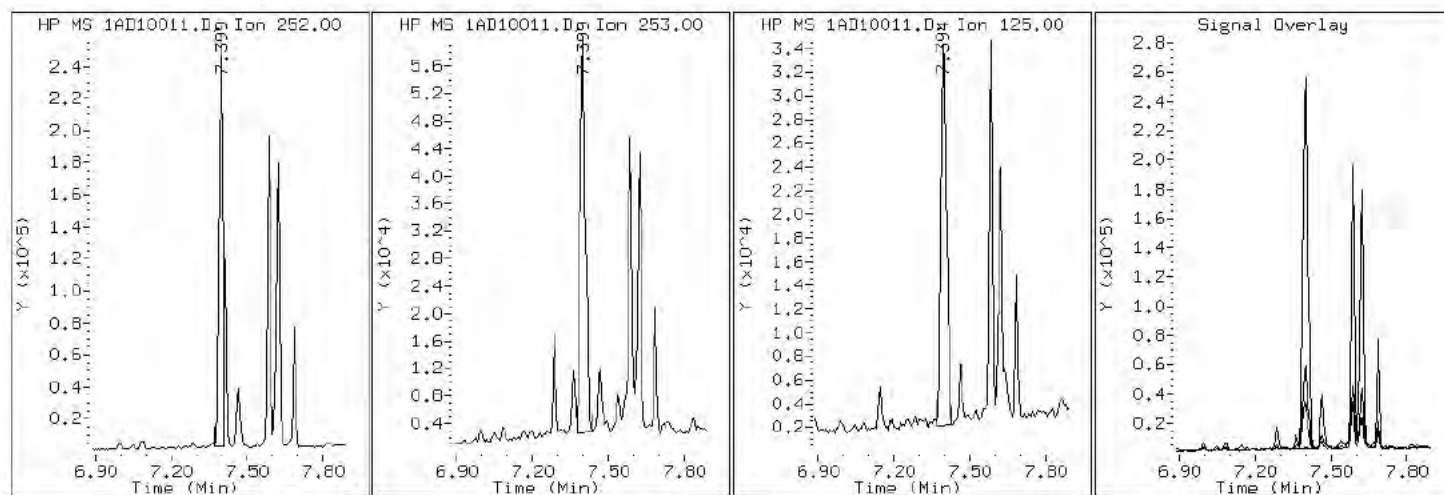
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

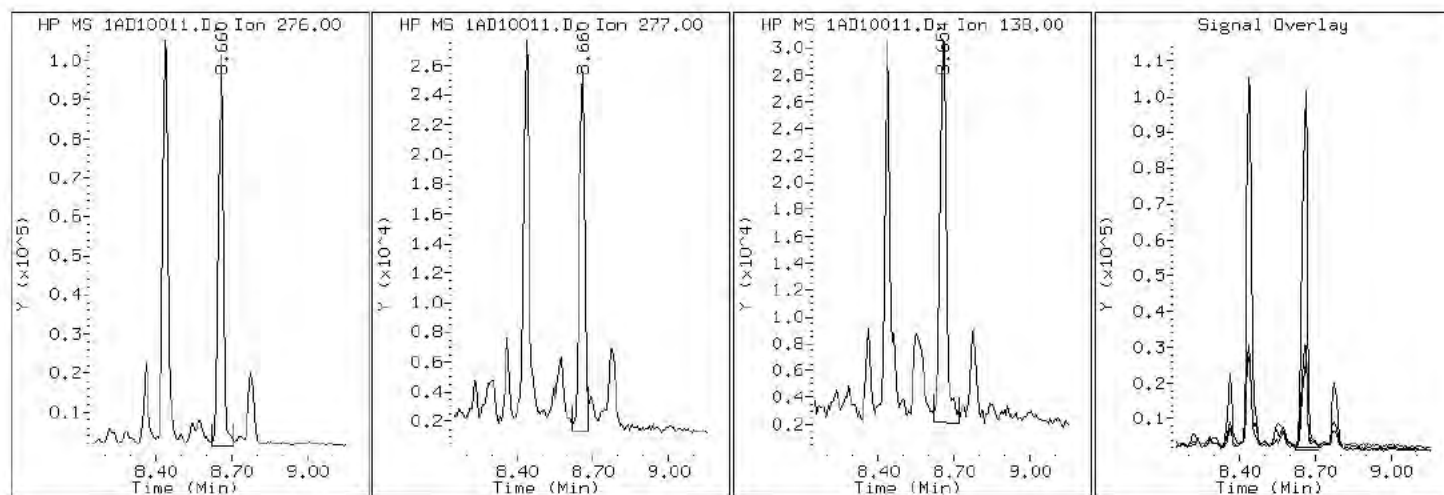
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

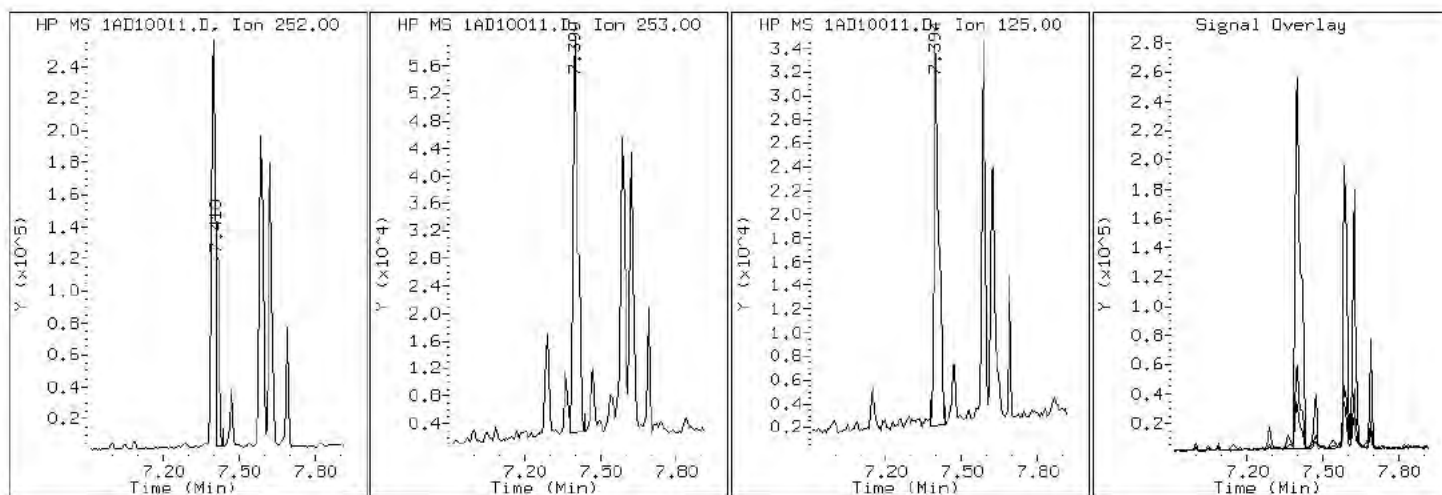
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

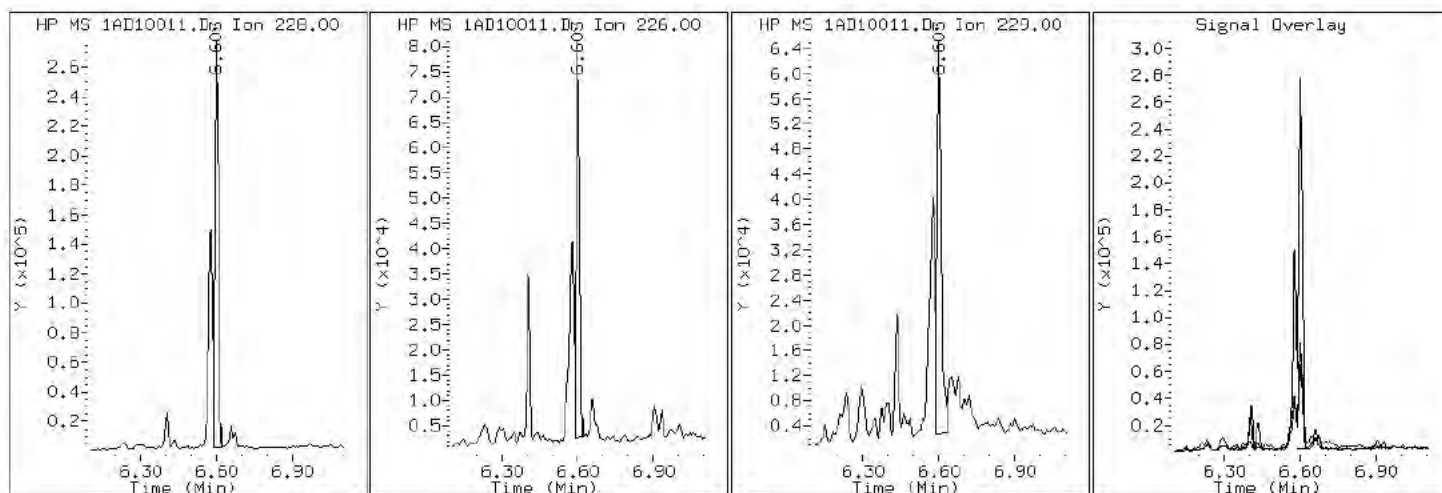
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

19 Chrysene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

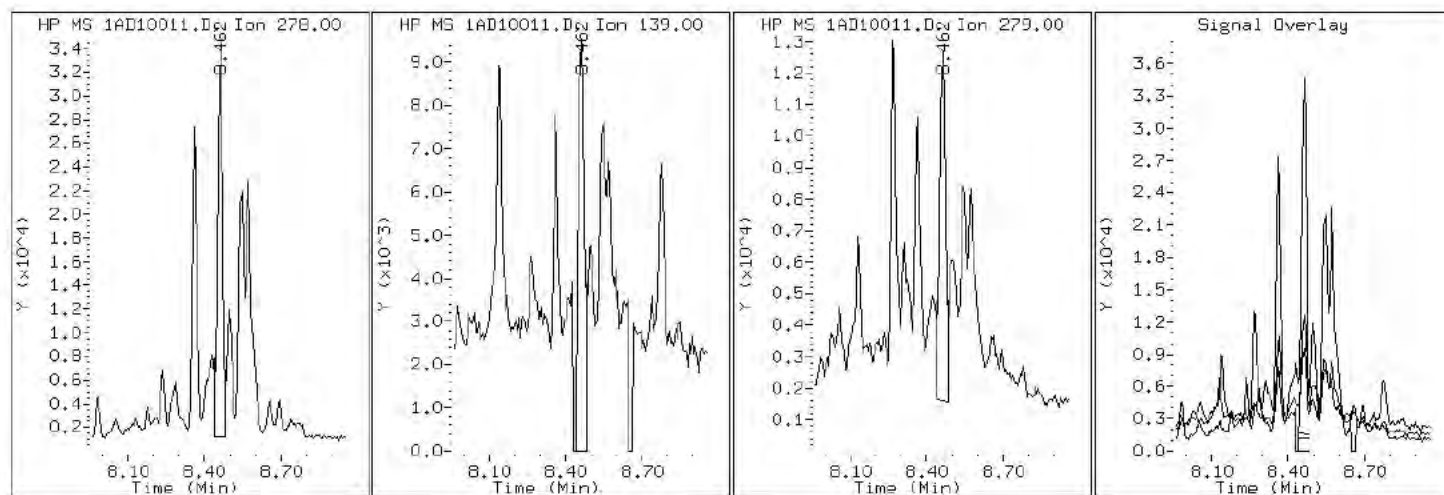
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

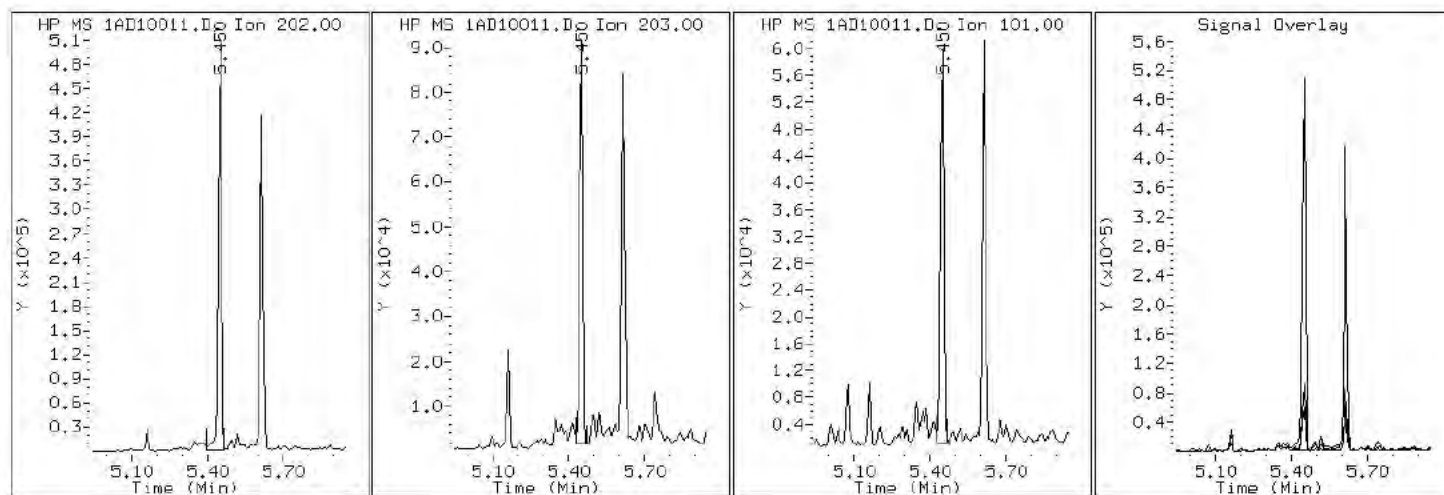
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

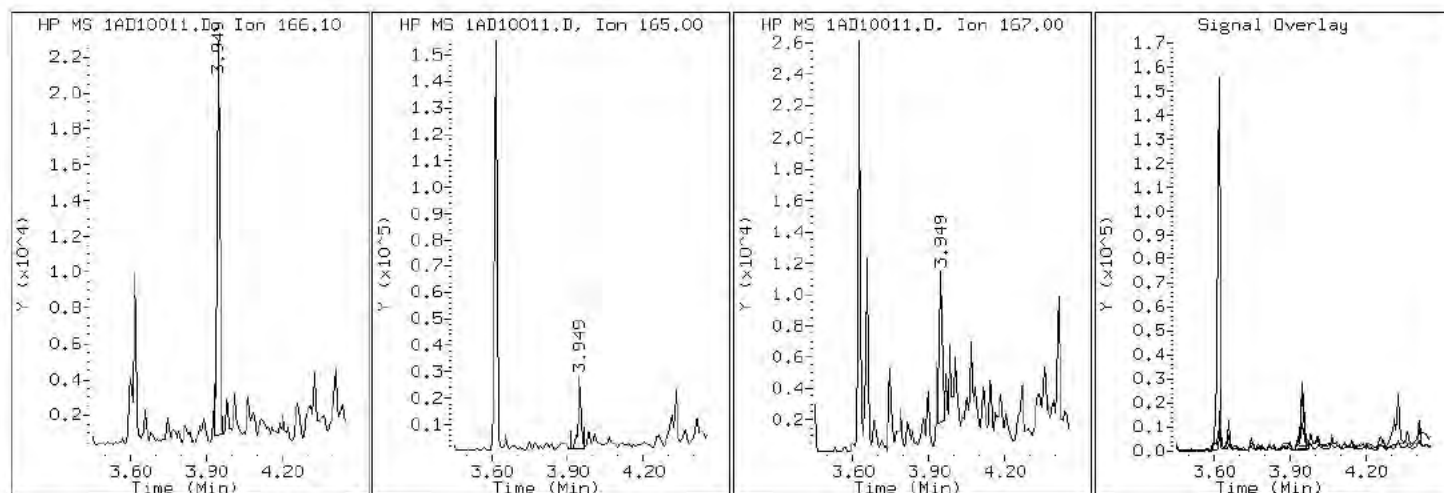
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

9 Fluorene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

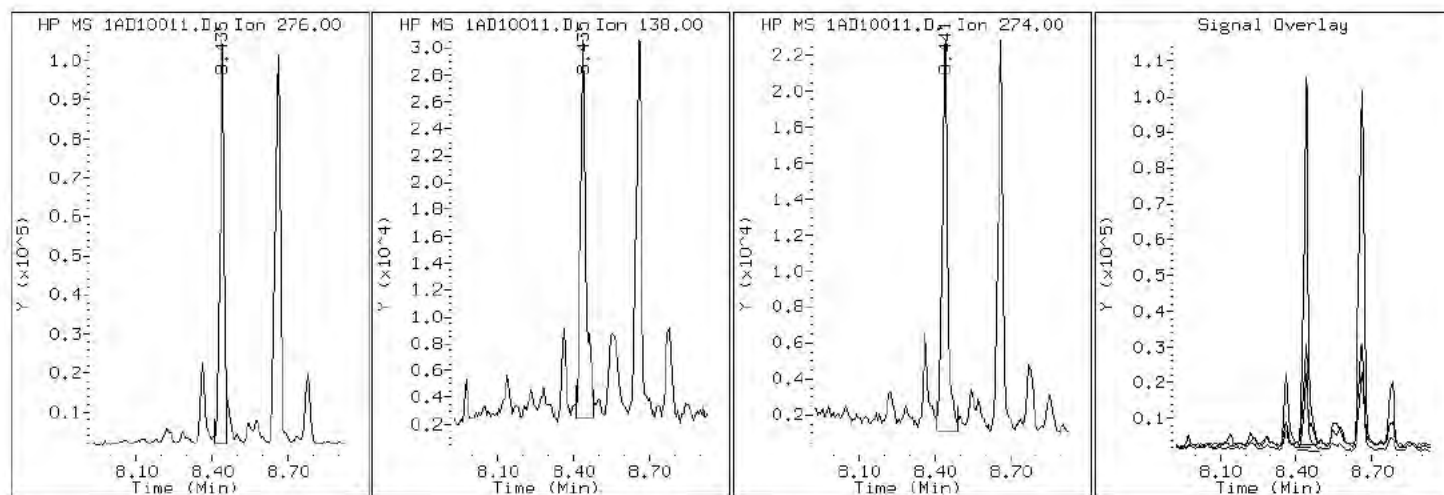
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

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



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

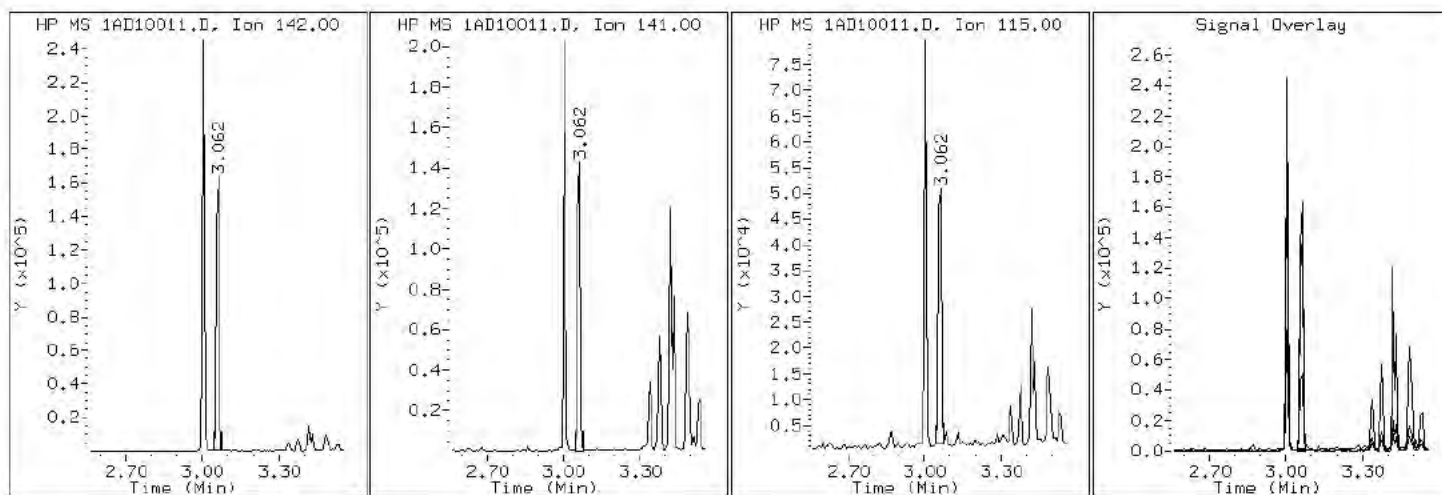
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

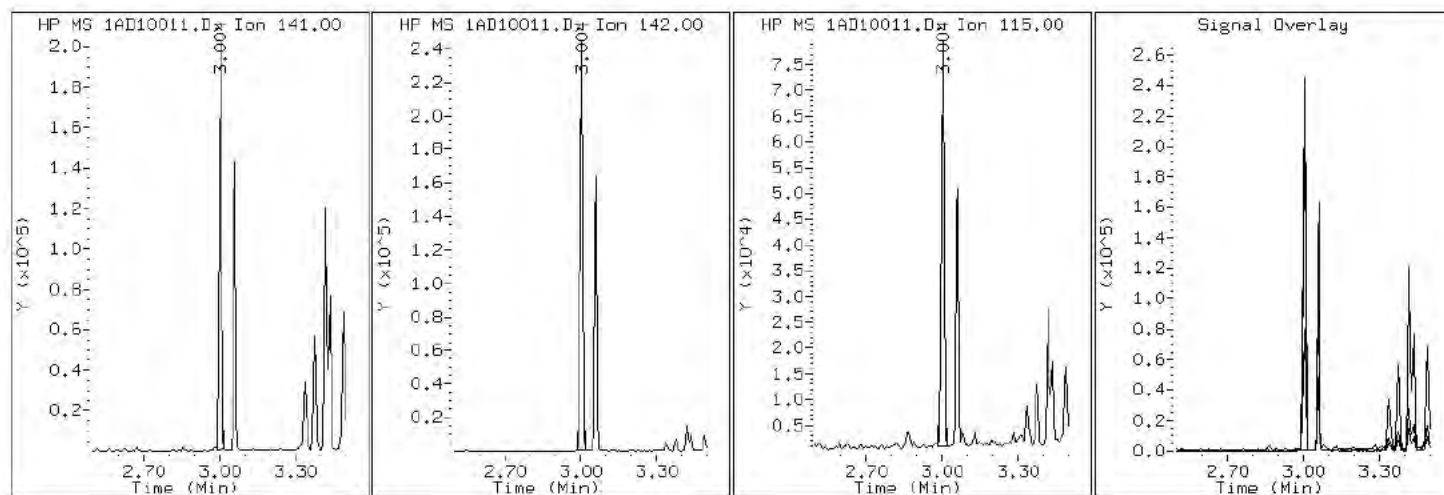
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

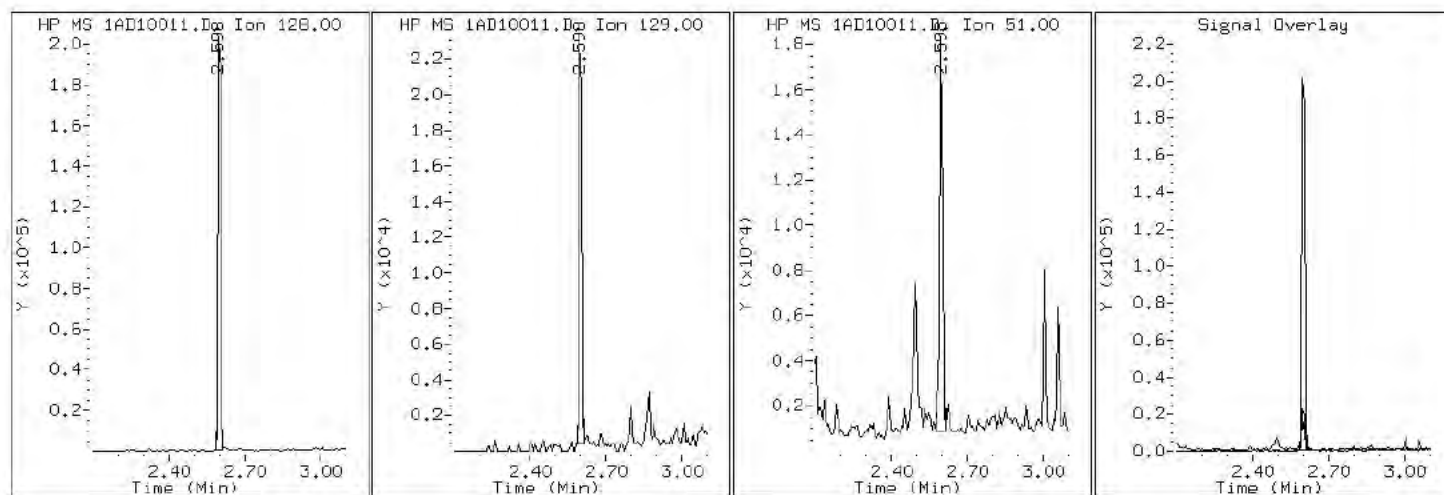
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

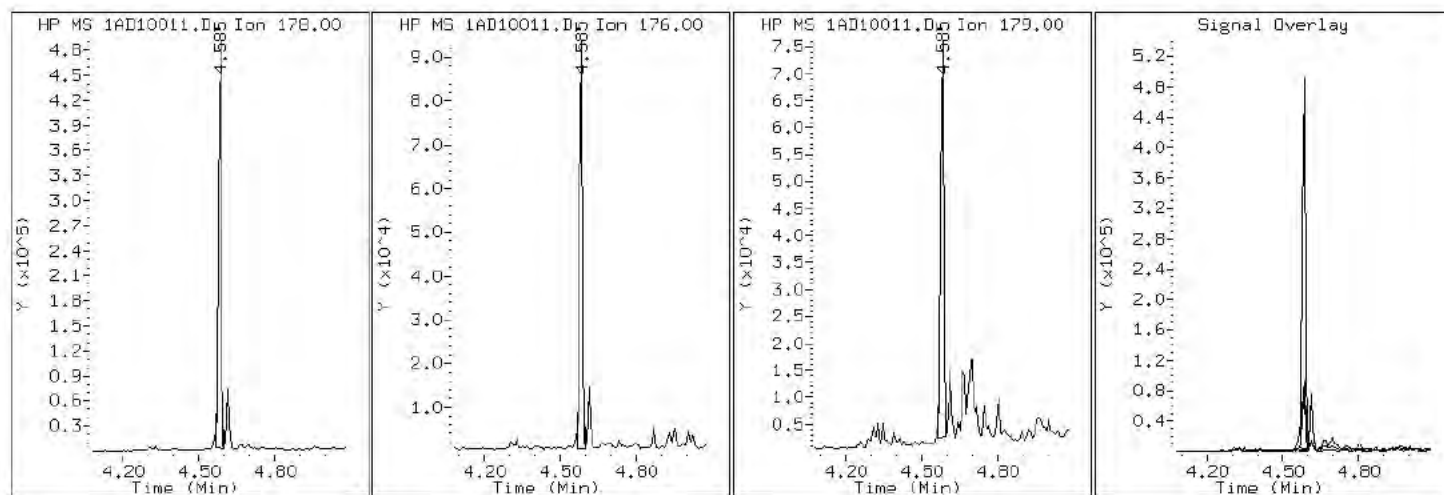
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10011.D

Date: 10-APR-2013 14:42

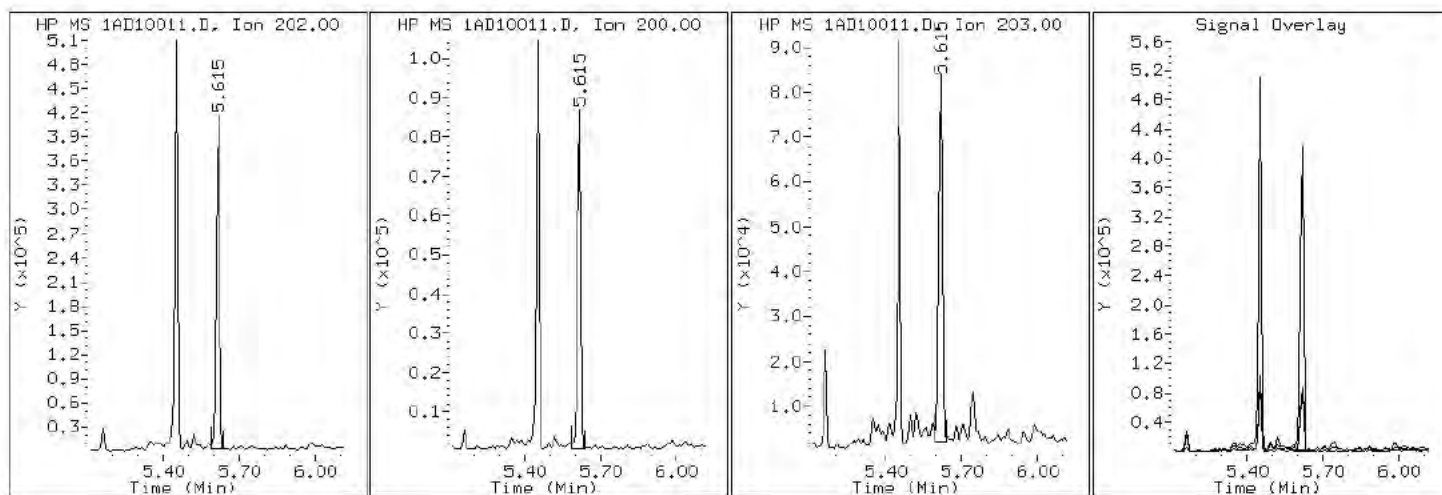
Client ID: CV0116A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-1-a

Operator: SCC

16 Pyrene

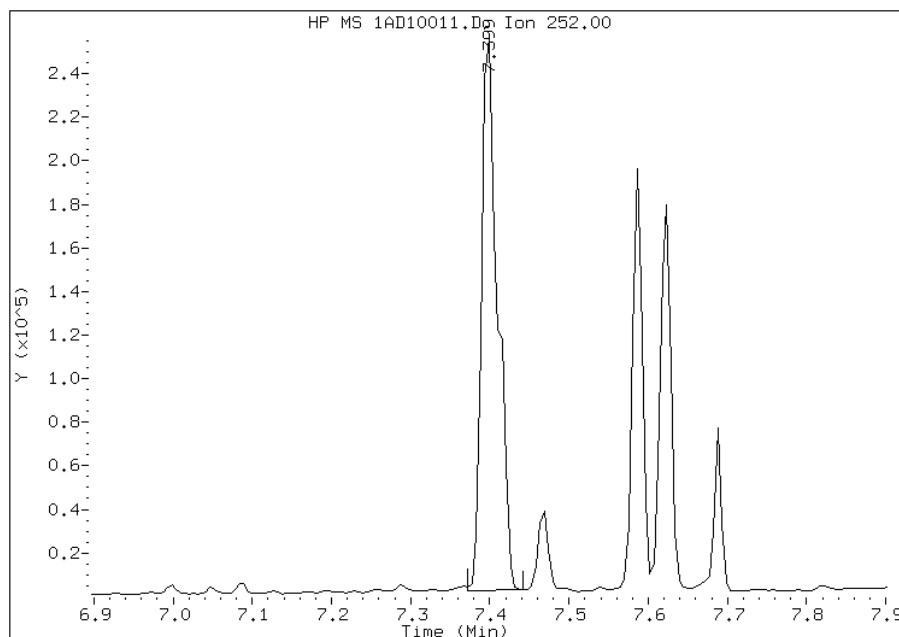


Manual Integration Report

Data File: 1AD10011.D
Inj. Date and Time: 10-APR-2013 14:42
Instrument ID: BSMA5973.i
Client ID: CV0116A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

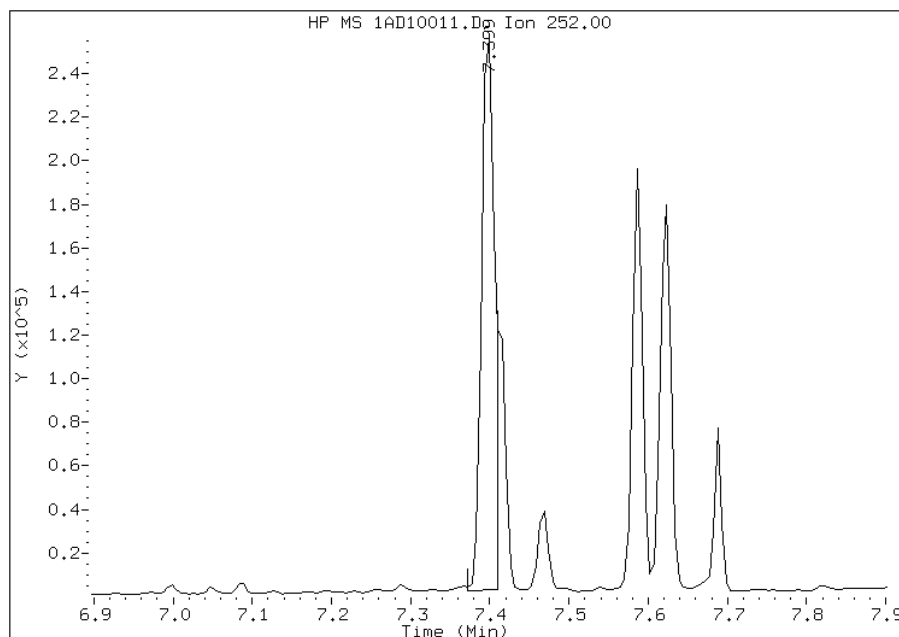
Processing Integration Results

RT: 7.40
Response: 350775
Amount: 7
Conc: 641



Manual Integration Results

RT: 7.40
Response: 292064
Amount: 6
Conc: 533



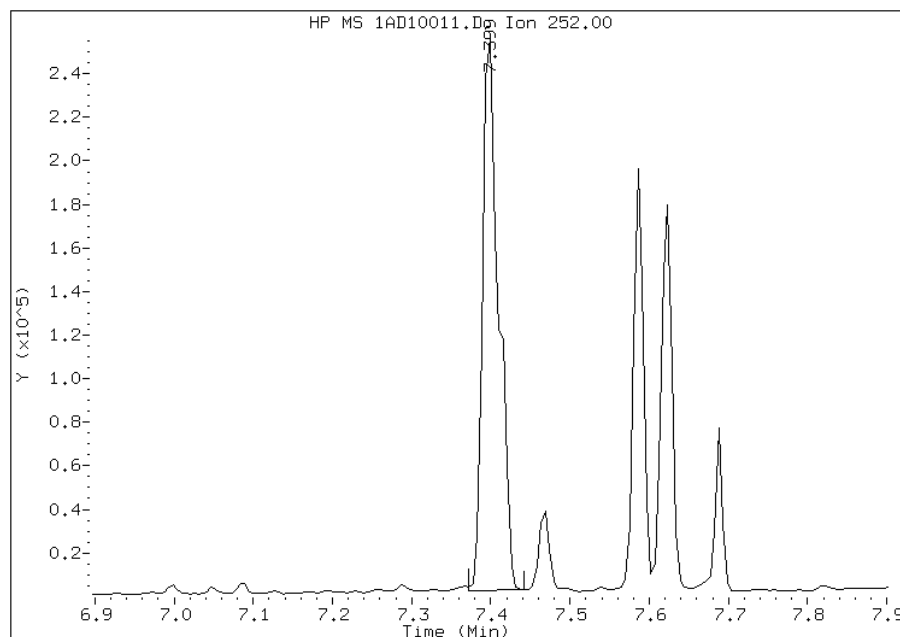
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 10:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10011.D
Inj. Date and Time: 10-APR-2013 14:42
Instrument ID: BSMA5973.i
Client ID: CV0116A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

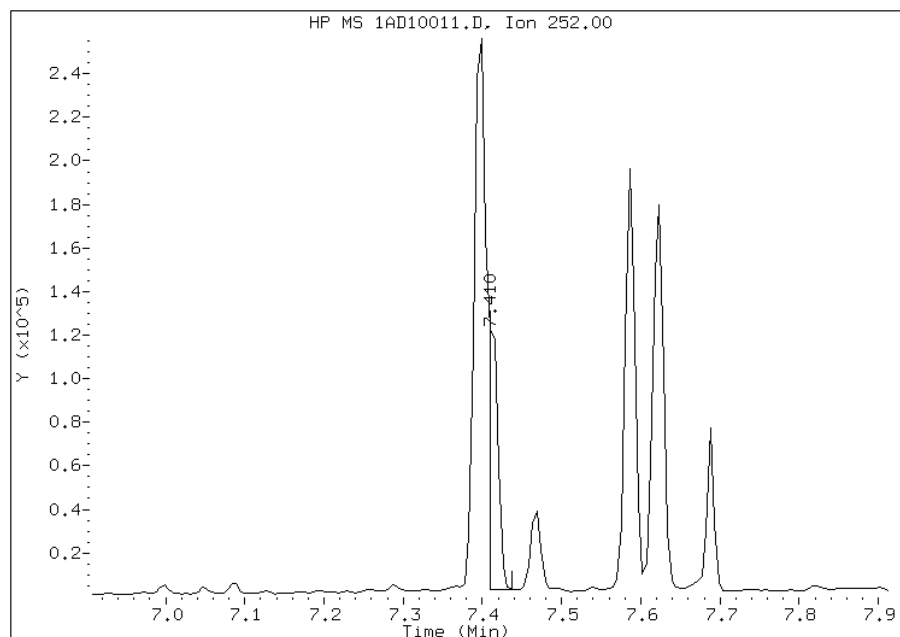
Processing Integration Results

RT: 7.40
Response: 350806
Amount: 7
Conc: 577



Manual Integration Results

RT: 7.41
Response: 97306
Amount: 2
Conc: 160



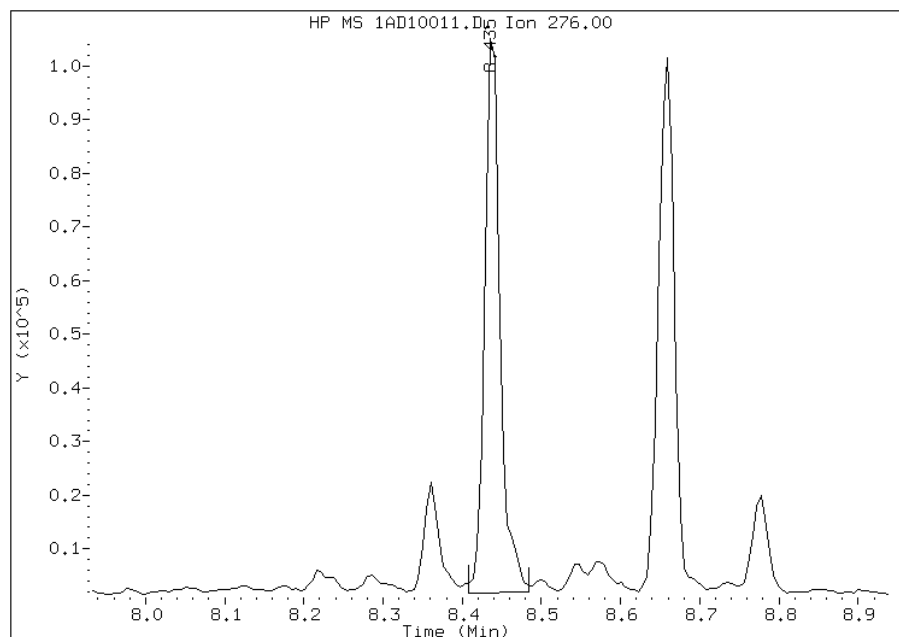
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 10:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10011.D
Inj. Date and Time: 10-APR-2013 14:42
Instrument ID: BSMA5973.i
Client ID: CV0116A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

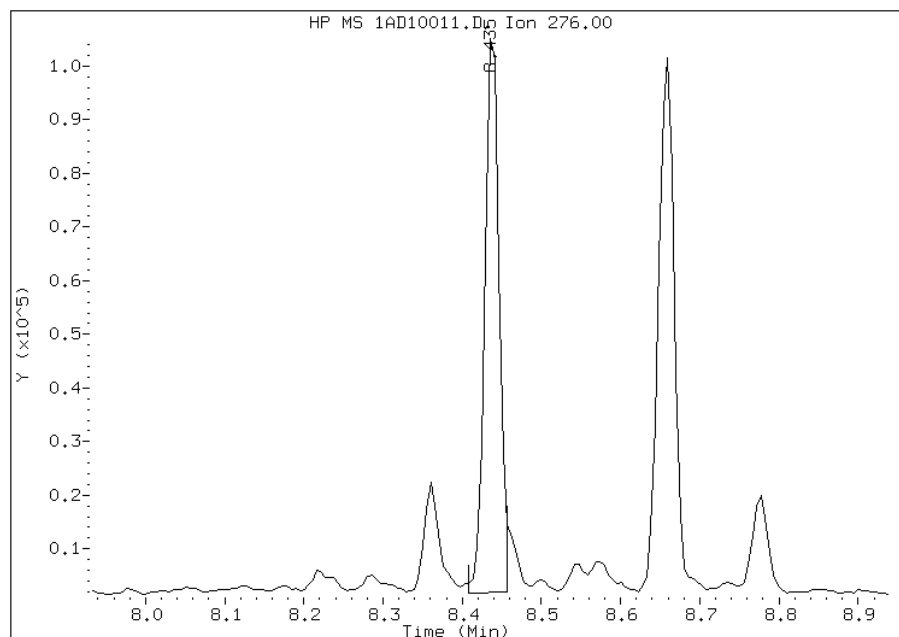
Processing Integration Results

RT: 8.44
Response: 137794
Amount: 3
Conc: 299



Manual Integration Results

RT: 8.44
Response: 129661
Amount: 3
Conc: 283



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 10:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>CV0116B-CS-SP</u>	Lab Sample ID: <u>680-88913-2</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10012.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 14:40</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>14.97(g)</u>	Date Analyzed: <u>04/10/2013 14:57</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>41.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	34
208-96-8	Acenaphthylene	68	U	68	8.5
120-12-7	Anthracene	14	U	14	7.1
56-55-3	Benzo[a]anthracene	46		14	6.6
50-32-8	Benzo[a]pyrene	18	U	18	8.8
205-99-2	Benzo[b]fluoranthene	65		21	10
191-24-2	Benzo[g,h,i]perylene	44		34	7.5
207-08-9	Benzo[k]fluoranthene	27		14	6.1
218-01-9	Chrysene	60		15	7.6
53-70-3	Dibenz(a,h)anthracene	14	J	34	7.0
206-44-0	Fluoranthene	57		34	6.8
86-73-7	Fluorene	34	U	34	7.0
193-39-5	Indeno[1,2,3-cd]pyrene	82		34	12
90-12-0	1-Methylnaphthalene	61	J	68	7.5
91-57-6	2-Methylnaphthalene	69		68	12
91-20-3	Naphthalene	73		68	7.5
85-01-8	Phenanthrene	80		14	6.6
129-00-0	Pyrene	59		34	6.3

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10012.D
Lab Smp Id: 680-88913-A-2-A Client Smp ID: CV0116B-CS-SP
Inj Date : 10-APR-2013 14:57
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88913-a-2-a
Misc Info : 680-88913-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1A-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:54 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	41.014	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.588	2.584	(1.000)		1626804	40.0000	
* 6 Acenaphthene-d10	164		3.619	3.615	(1.000)		874973	40.0000	
* 10 Phenanthrene-d10	188		4.570	4.571	(1.000)		1414858	40.0000	
\$ 14 o-Terphenyl	230		4.869	4.870	(1.065)		191577	6.46218	731.8247
* 18 Chrysene-d12	240		6.583	6.584	(1.000)		1289497	40.0000	
* 23 Perylene-d12	264		7.667	7.663	(1.000)		1541084	40.0000	
2 Naphthalene	128		2.599	2.600	(1.004)		23903	0.64551	73.1020
3 2-Methylnaphthalene	141		3.005	3.000	(1.161)		16022	0.60666	68.7021
4 1-Methylnaphthalene	142		3.058	3.059	(1.182)		12647	0.54018	61.1743
11 Phenanthrene	178		4.580	4.581	(1.002)		27993	0.70242	79.5472
13 Carbazole	167		4.746	4.747	(1.039)		4074	0.14100	15.9675
15 Fluoranthene	202		5.446	5.447	(1.192)		28906	0.50458	57.1422
16 Pyrene	202		5.611	5.612	(0.852)		26081	0.52488	59.4408
17 Benzo(a)anthracene	228		6.578	6.574	(0.999)		17349	0.40334	45.6768

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
19 Chrysene	228	6.599	6.606	(1.002)	23167	0.52809	59.8049
20 Benzo(b)fluoranthene	252	7.390	7.391	(0.964)	26843	0.57445	65.0546(M)
21 Benzo(k)fluoranthene	252	7.400	7.412	(0.965)	12470	0.24027	27.2104(M)
24 Indeno(1,2,3-cd)pyrene	276	8.426	8.427	(1.099)	14462	0.72518	82.1248(M)
25 Dibenzo(a,h)anthracene	278	8.453	8.459	(1.102)	4859	0.12471	14.1236
26 Benzo(g,h,i)perylene	276	8.640	8.651	(1.127)	16400	0.39072	44.2481(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD10012.D

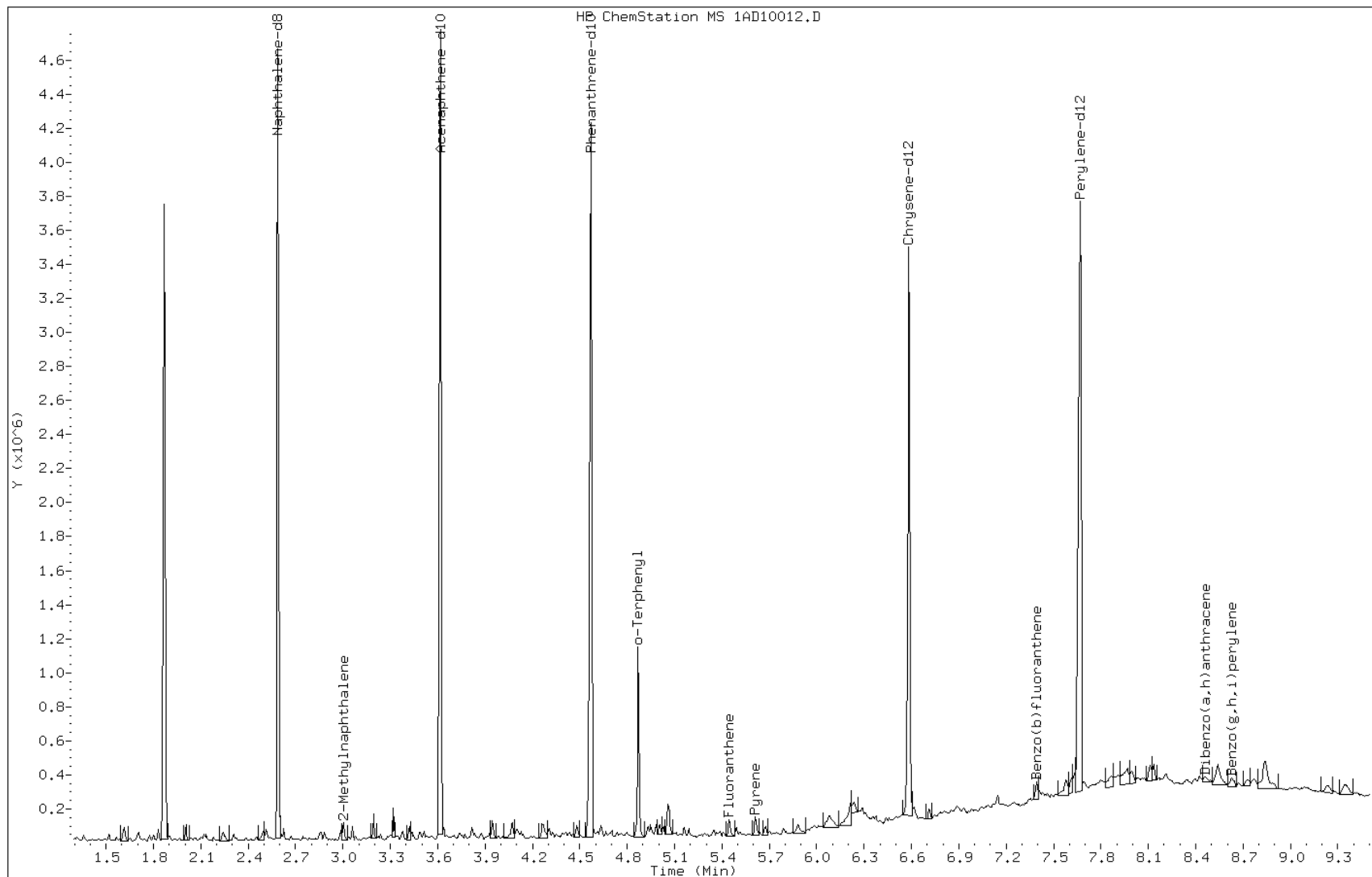
Date: 10-APR-2013 14:57

Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

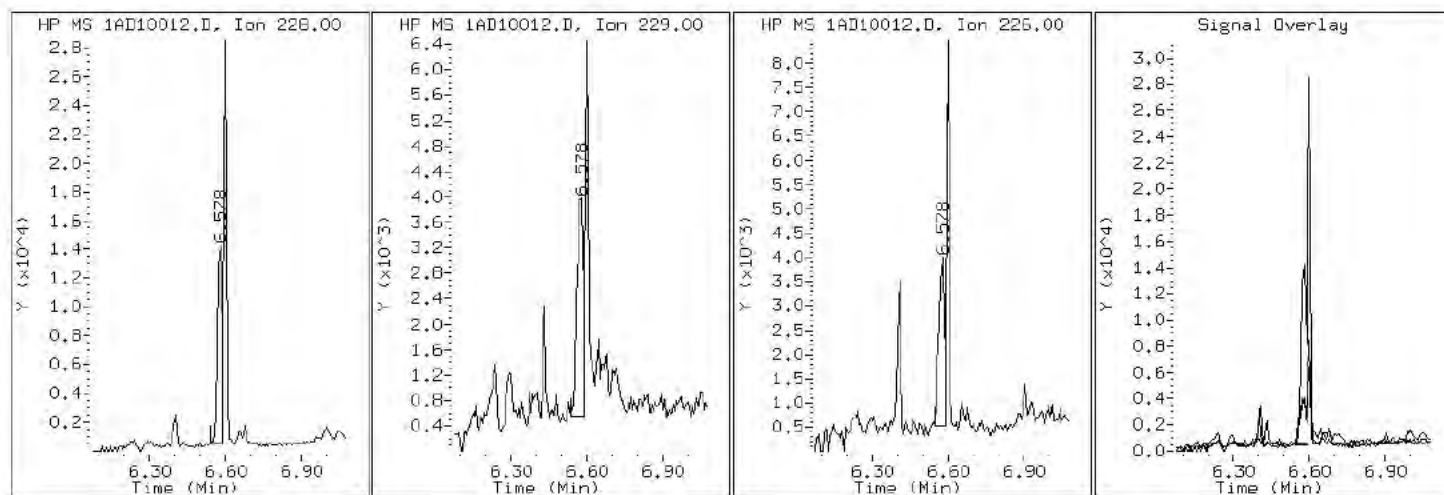
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

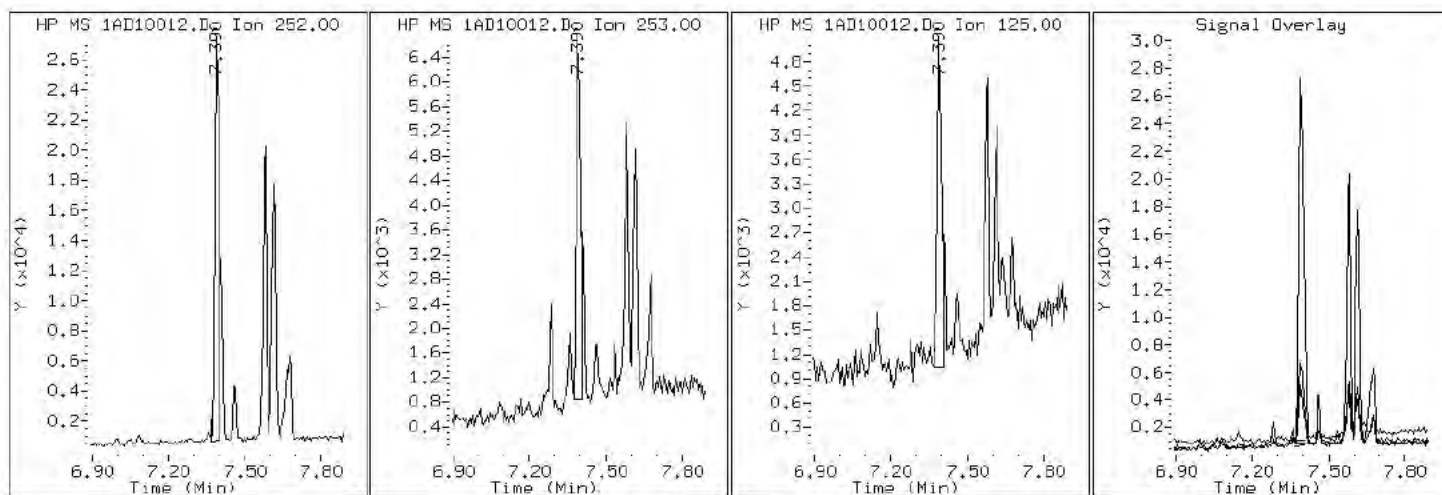
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

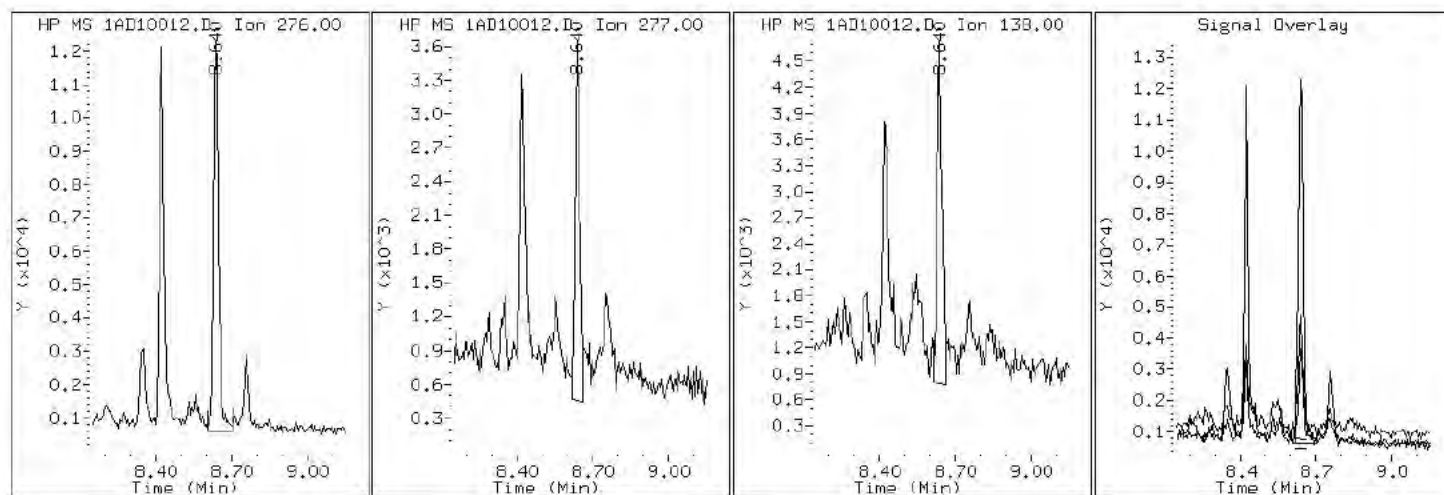
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

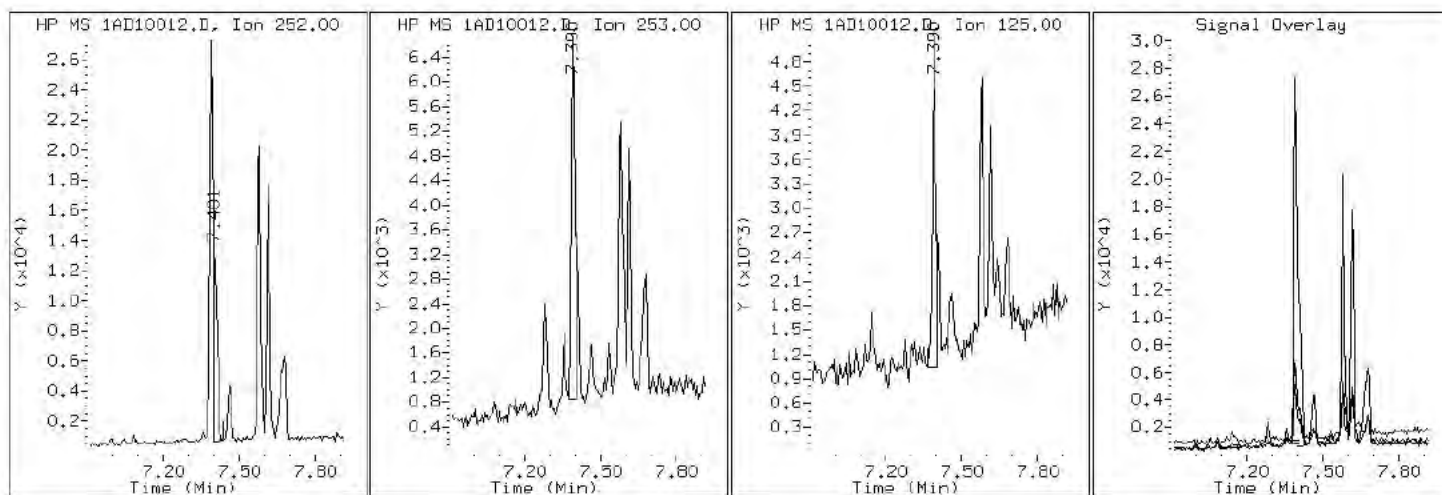
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

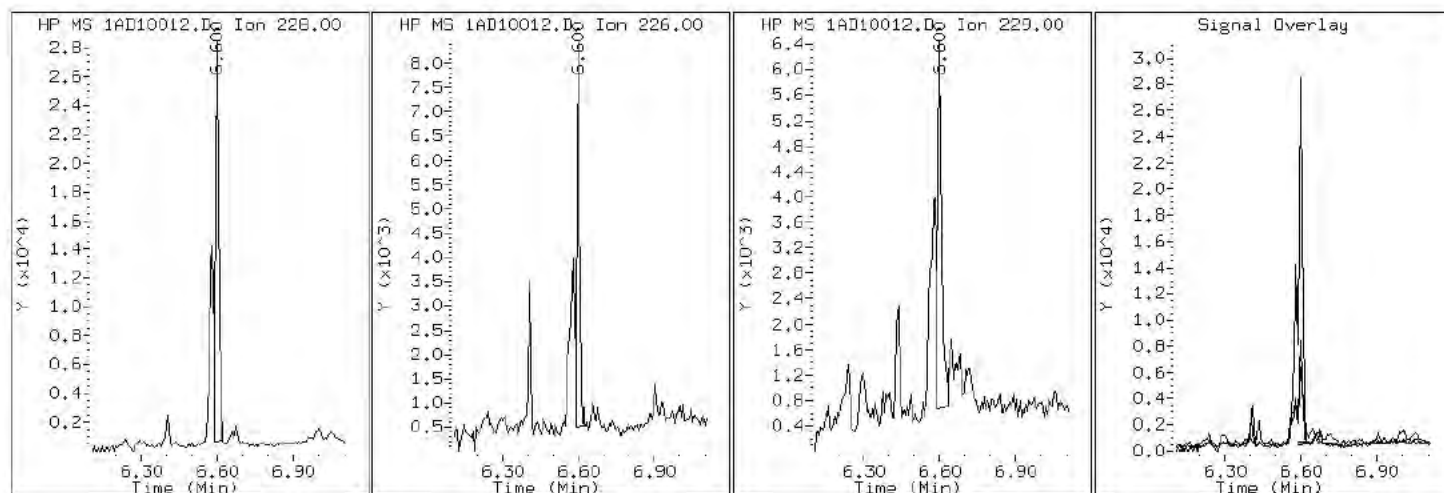
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

19 Chrysene



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

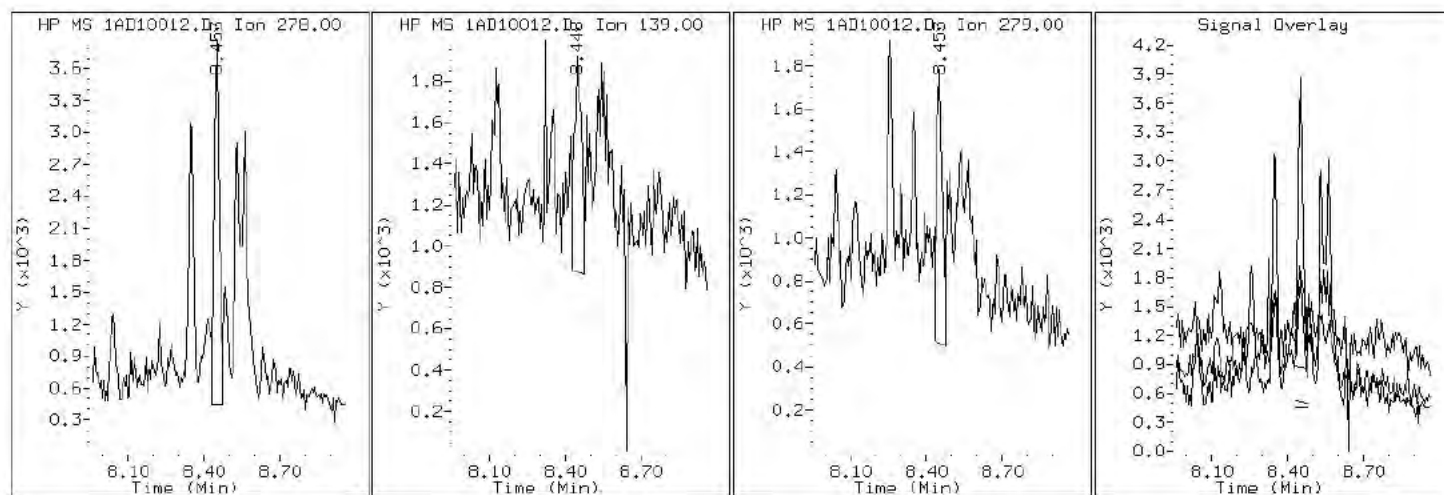
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

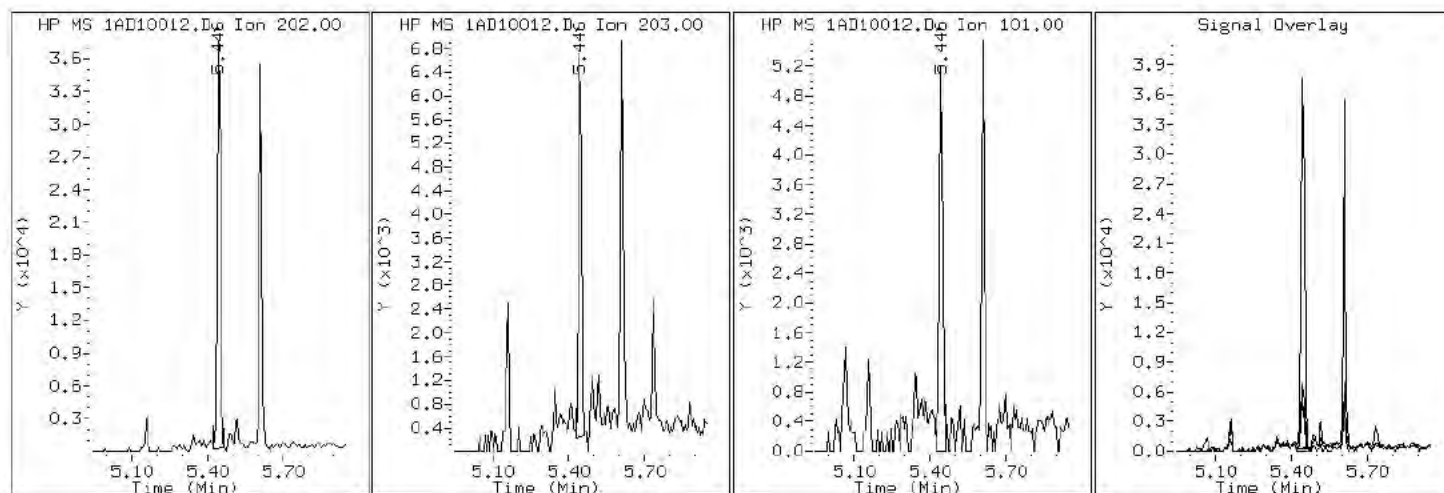
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

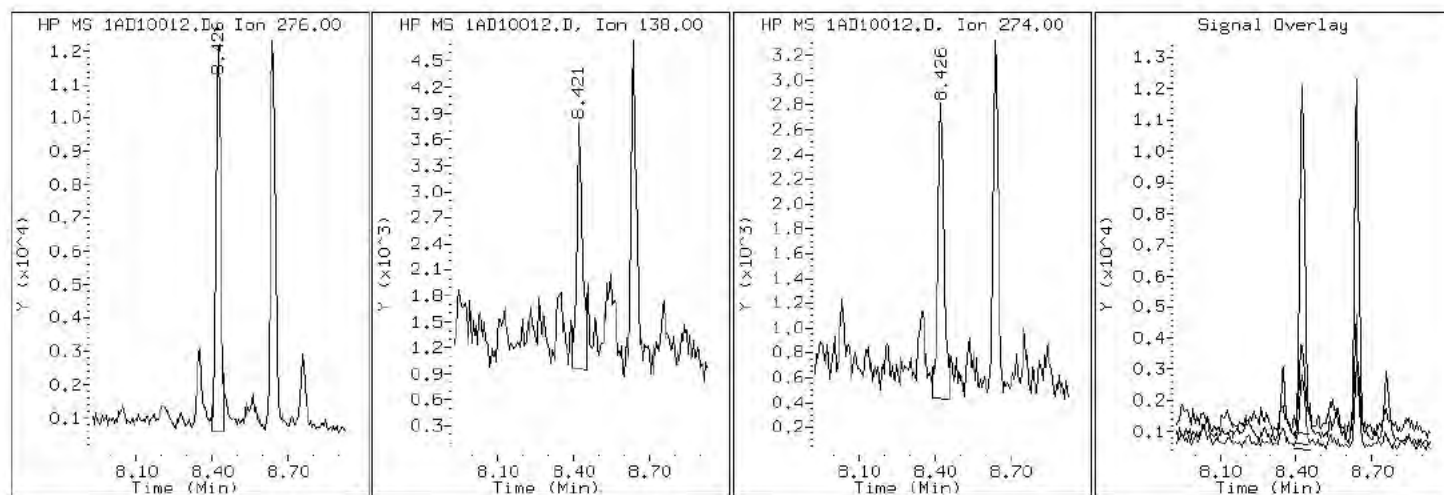
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

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



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

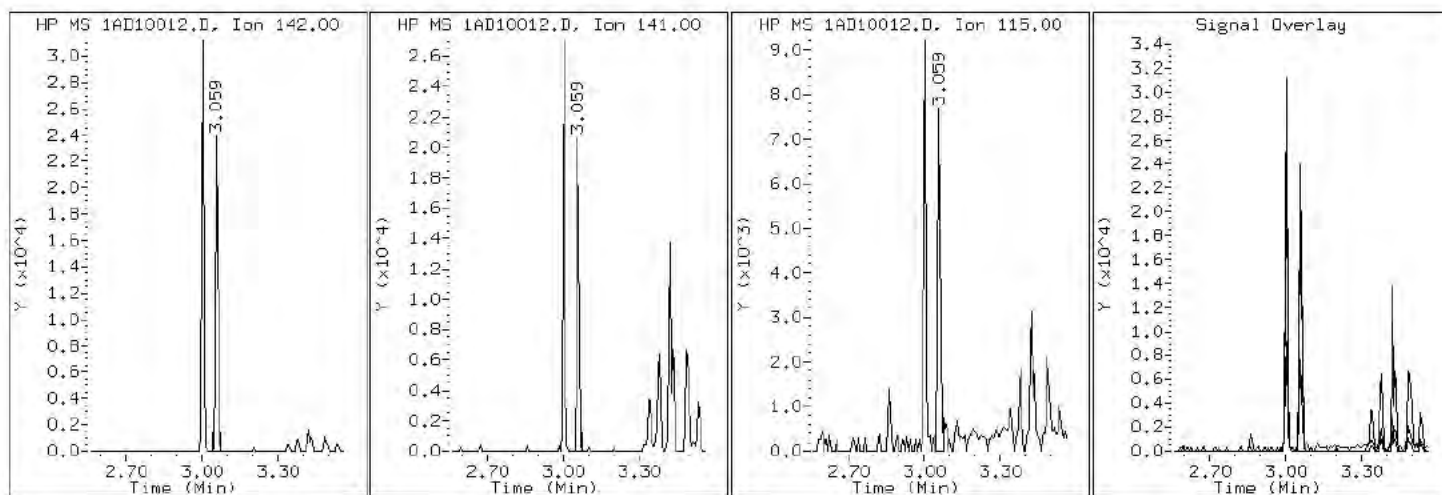
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

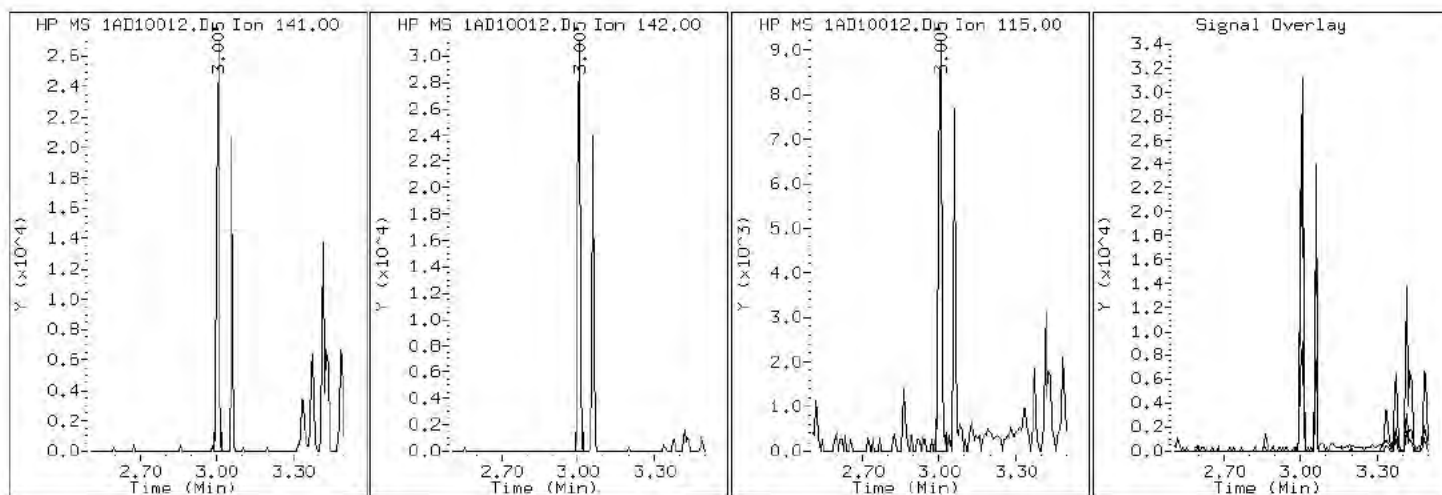
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

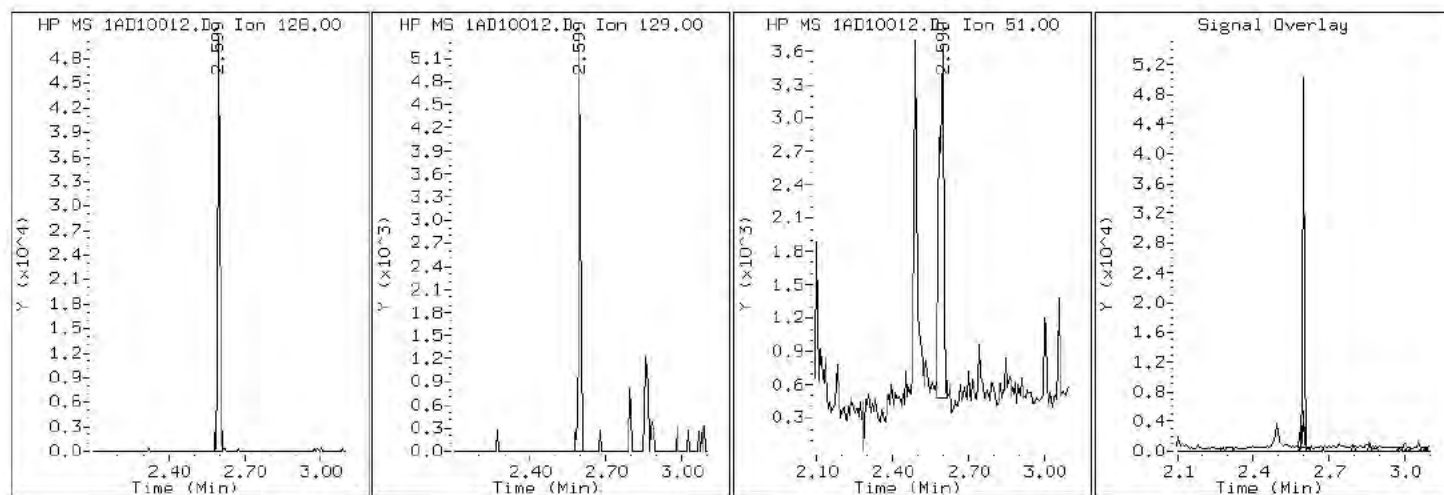
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

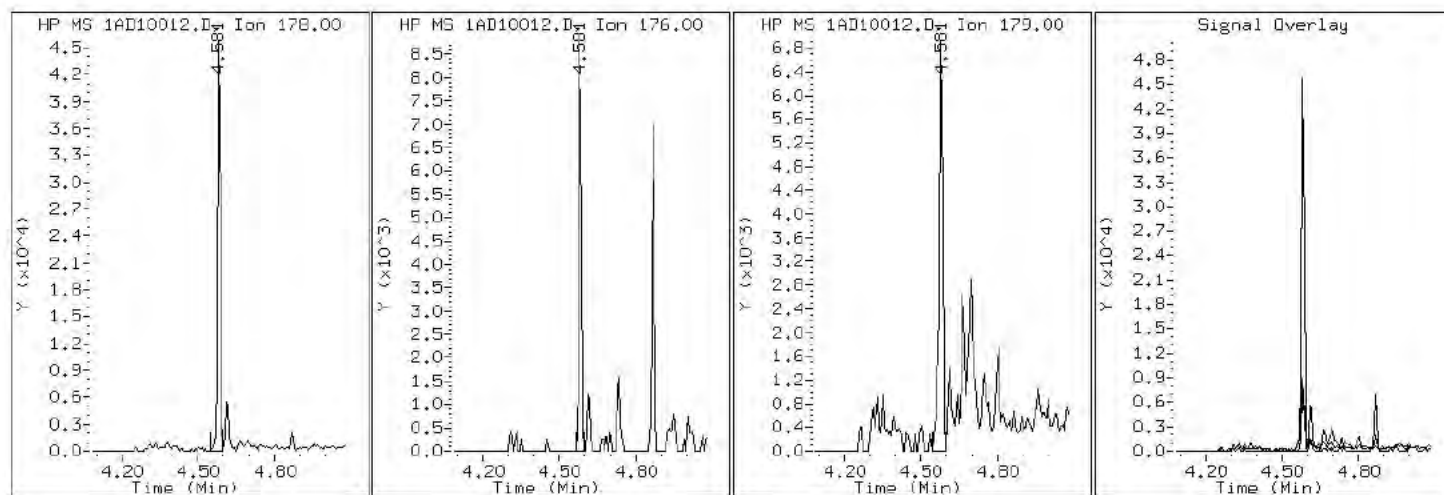
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10012.D

Date: 10-APR-2013 14:57

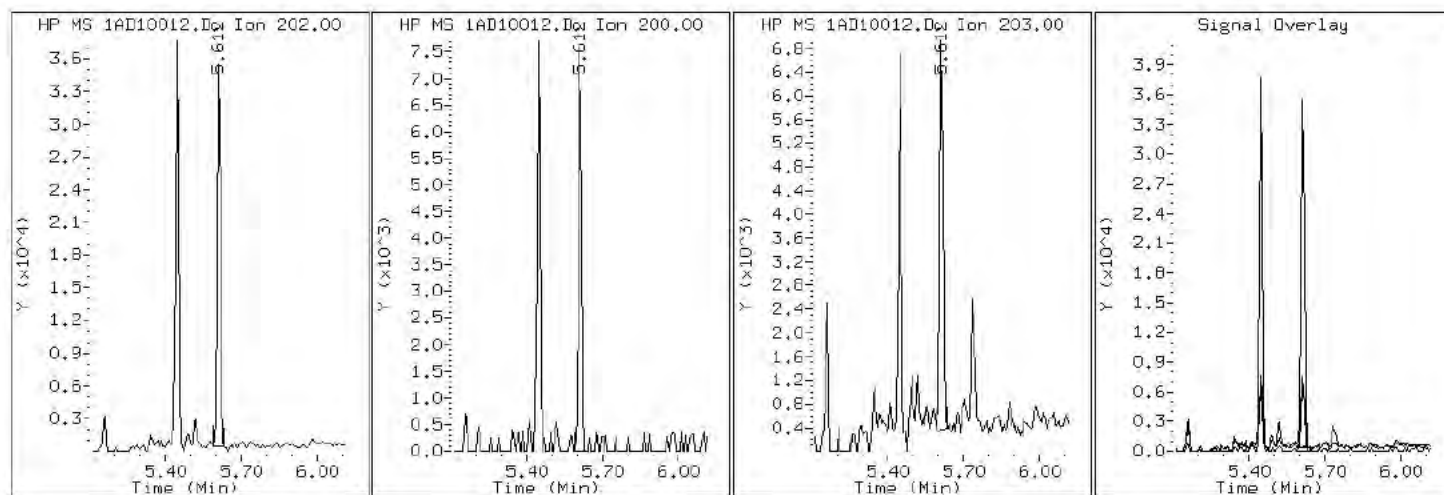
Client ID: CV0116B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-a

Operator: SCC

16 Pyrene

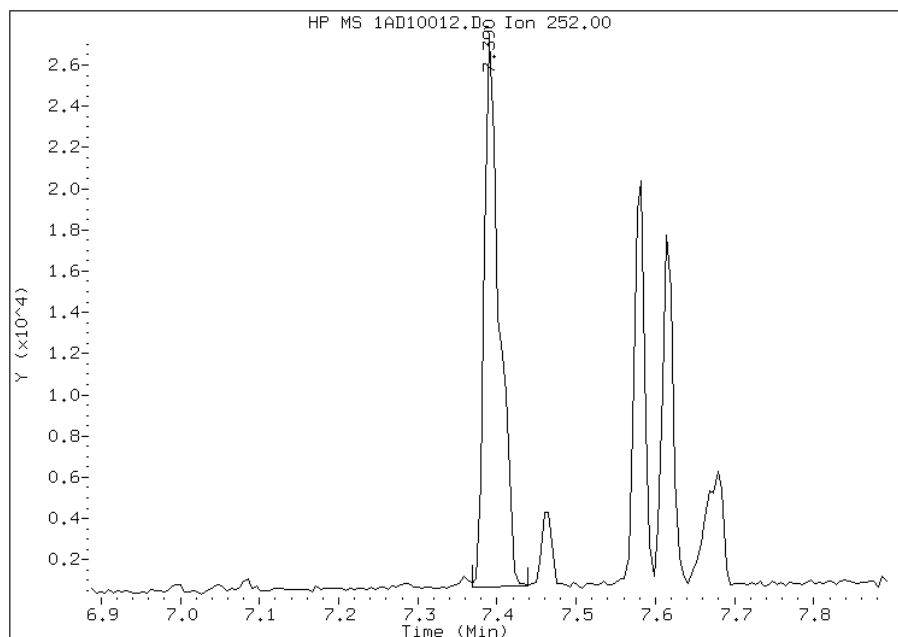


Manual Integration Report

Data File: 1AD10012.D
Inj. Date and Time: 10-APR-2013 14:57
Instrument ID: BSMA5973.i
Client ID: CV0116B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/10/2013

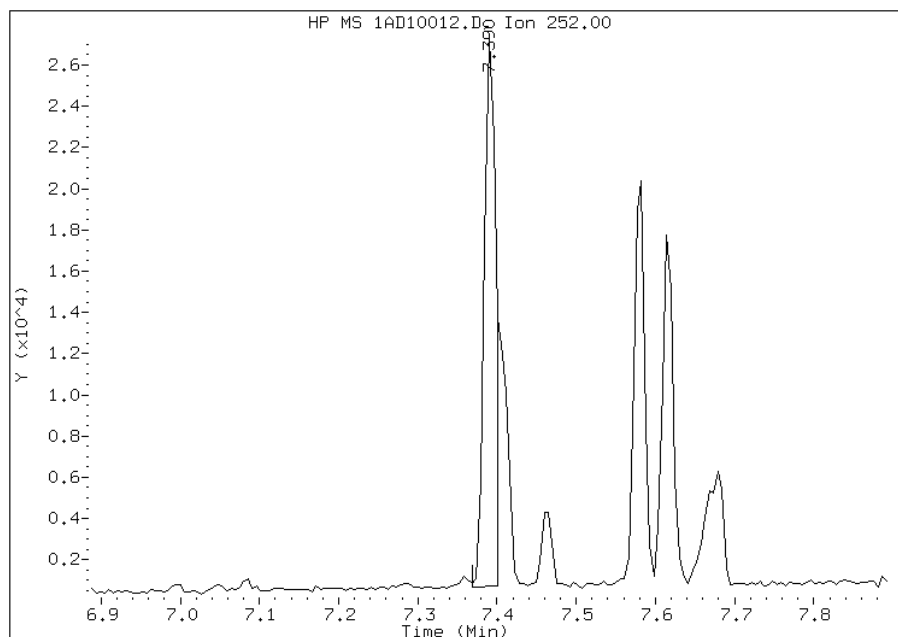
Processing Integration Results

RT: 7.39
Response: 35091
Amount: 1
Conc: 85



Manual Integration Results

RT: 7.39
Response: 26843
Amount: 1
Conc: 65



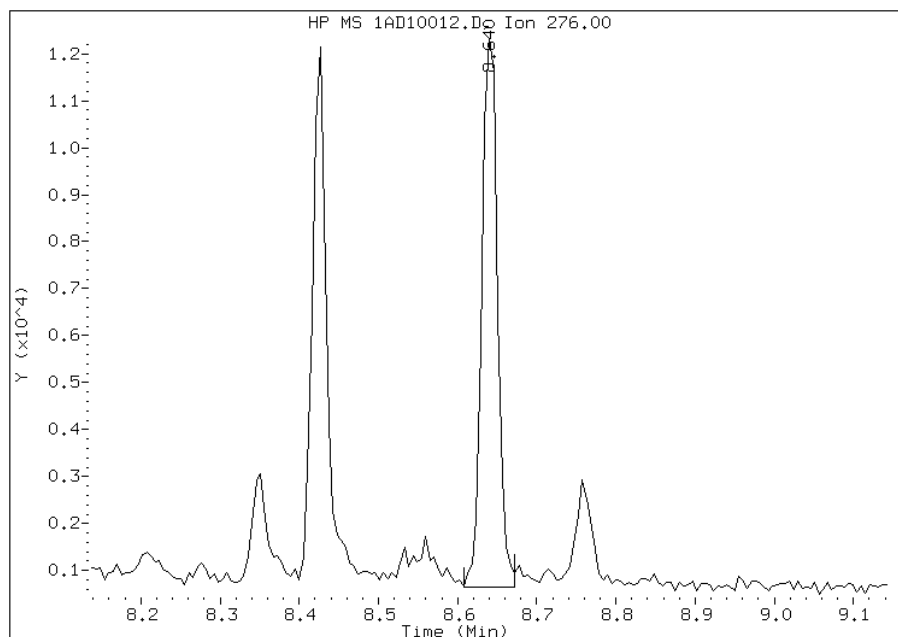
Manually Integrated By: cantins
Modification Date: 10-Apr-2013 15:53
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10012.D
Inj. Date and Time: 10-APR-2013 14:57
Instrument ID: BSMA5973.i
Client ID: CV0116B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/10/2013

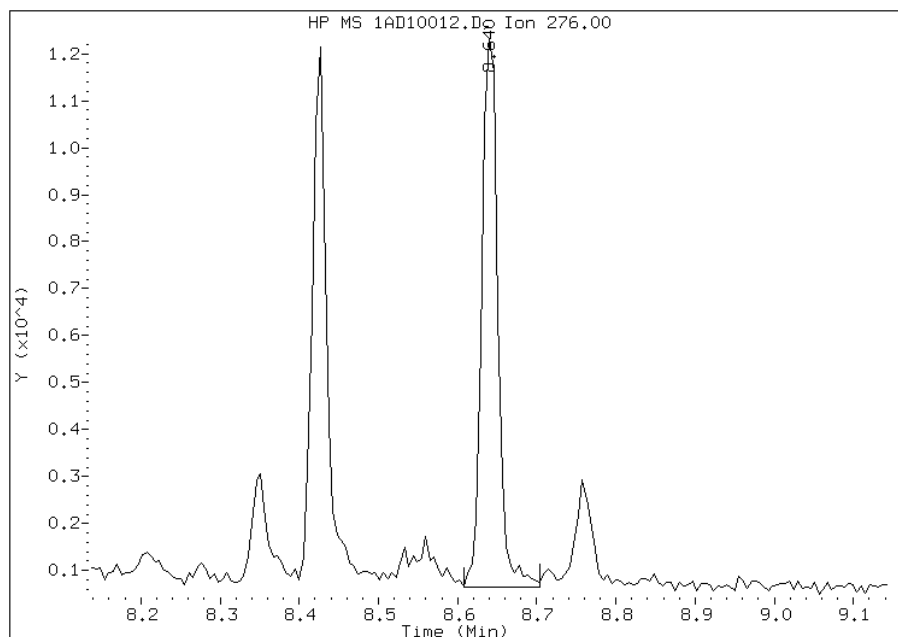
Processing Integration Results

RT: 8.64
Response: 15932
Amount: 0
Conc: 43



Manual Integration Results

RT: 8.64
Response: 16400
Amount: 0
Conc: 44



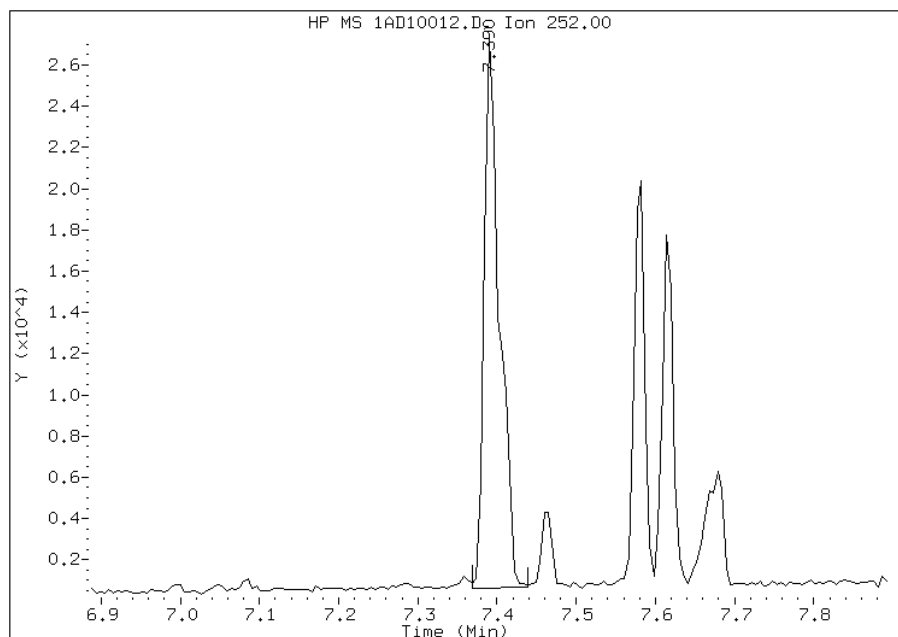
Manually Integrated By: cantins
Modification Date: 10-Apr-2013 15:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10012.D
Inj. Date and Time: 10-APR-2013 14:57
Instrument ID: BSMA5973.i
Client ID: CV0116B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/10/2013

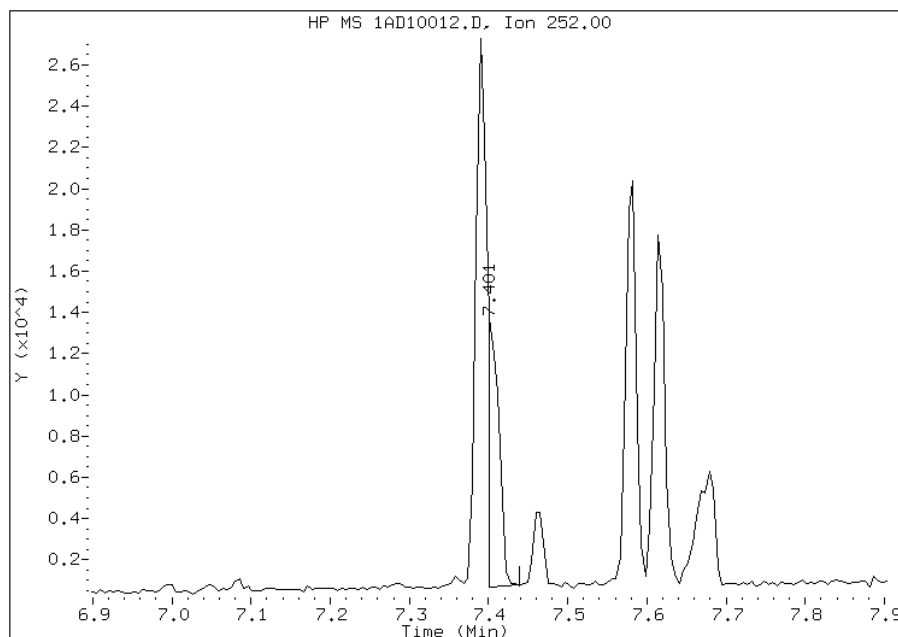
Processing Integration Results

RT: 7.39
Response: 35405
Amount: 1
Conc: 77



Manual Integration Results

RT: 7.40
Response: 12470
Amount: 0
Conc: 27



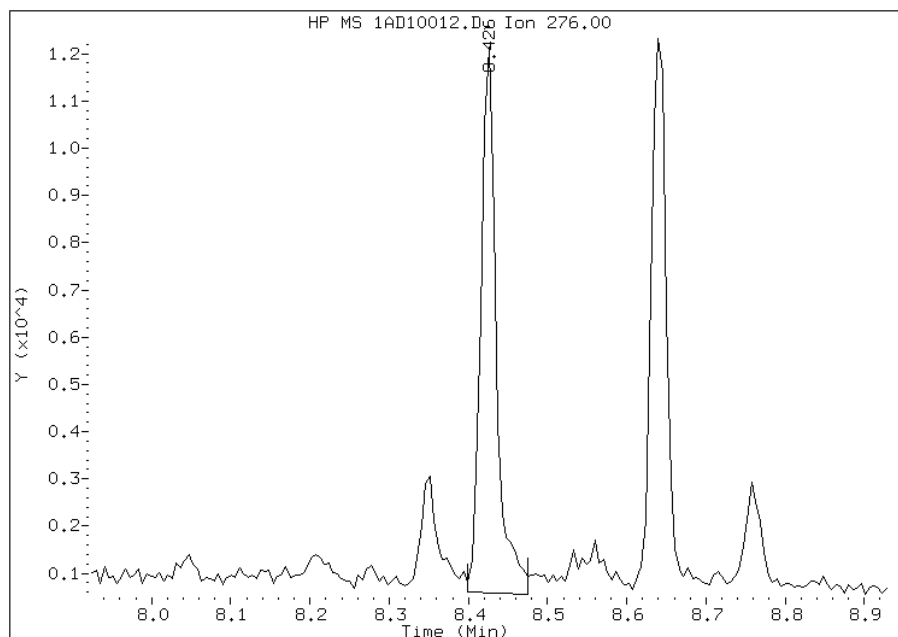
Manually Integrated By: cantins
Modification Date: 10-Apr-2013 15:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10012.D
Inj. Date and Time: 10-APR-2013 14:57
Instrument ID: BSMA5973.i
Client ID: CV0116B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

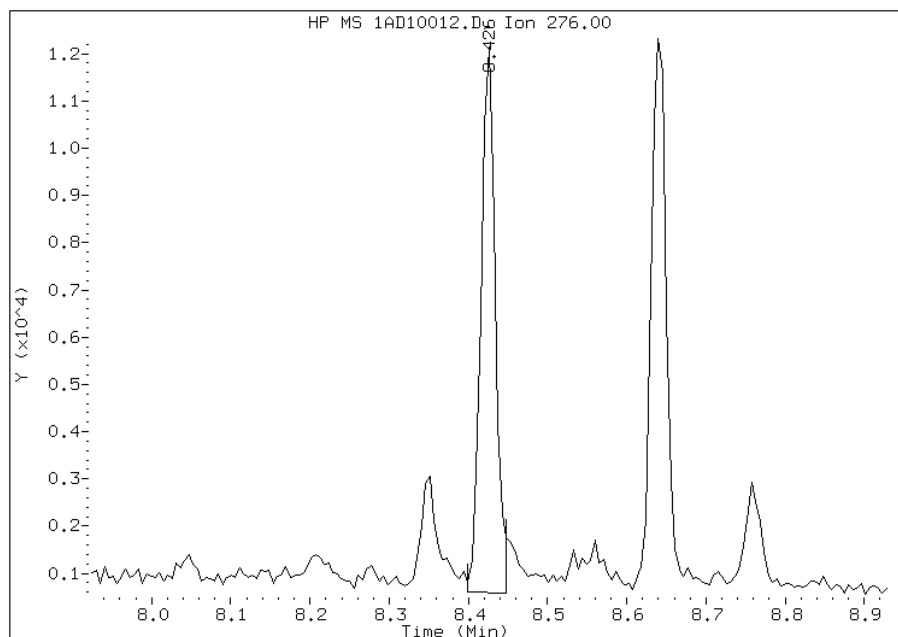
Processing Integration Results

RT: 8.43
Response: 15580
Amount: 1
Conc: 85



Manual Integration Results

RT: 8.43
Response: 14462
Amount: 1
Conc: 82



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 15:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>CV0501A-CS-SP</u>	Lab Sample ID: <u>680-88913-3</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10015.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 13:50</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.02(g)</u>	Date Analyzed: <u>04/10/2013 15:42</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>23.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	69	J	130	26
208-96-8	Acenaphthylene	72		52	6.5
120-12-7	Anthracene	120		11	5.5
56-55-3	Benzo[a]anthracene	490		10	5.1
50-32-8	Benzo[a]pyrene	570		14	6.8
205-99-2	Benzo[b]fluoranthene	860		16	7.9
191-24-2	Benzo[g,h,i]perylene	510		26	5.7
207-08-9	Benzo[k]fluoranthene	340		10	4.7
218-01-9	Chrysene	590		12	5.9
53-70-3	Dibenz(a,h)anthracene	160		26	5.3
206-44-0	Fluoranthene	780		26	5.2
86-73-7	Fluorene	61		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	490		26	9.2
90-12-0	1-Methylnaphthalene	130		52	5.7
91-57-6	2-Methylnaphthalene	150		52	9.2
91-20-3	Naphthalene	130		52	5.7
85-01-8	Phenanthrene	560		10	5.1
129-00-0	Pyrene	690		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10015.D
 Lab Smp Id: 680-88913-A-3-A Client Smp ID: CV0501A-CS-SP
 Inj Date : 10-APR-2013 15:42
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88913-a-3-a
 Misc Info : 680-88913-A-3-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10015.D
 Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
 Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	23.326	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.591	2.584	(1.000)		1537459	40.0000	
* 6 Acenaphthene-d10	164		3.617	3.615	(1.000)		792487	40.0000	
* 10 Phenanthrene-d10	188		4.568	4.571	(1.000)		1269343	40.0000	
\$ 14 o-Terphenyl	230		4.872	4.870	(1.067)		164661	6.15538	534.4871
* 18 Chrysene-d12	240		6.587	6.585	(1.000)		1222740	40.0000	
* 23 Perylene-d12	264		7.676	7.664	(1.000)		1511597	40.0000	
2 Naphthalene	128		2.602	2.600	(1.004)		81334	1.54557	134.2056
3 2-Methylnaphthalene	141		3.003	3.001	(1.159)		57169	1.77701	154.3021
4 1-Methylnaphthalene	142		3.061	3.060	(1.181)		53515	1.47045	127.6830
5 Acenaphthylene	152		3.526	3.524	(0.975)		28636	0.83148	72.1995
7 Acenaphthene	154		3.633	3.636	(1.004)		13934	0.78889	68.5011
9 Fluorene	166		3.948	3.952	(1.092)		20041	0.70241	60.9922
11 Phenanthrene	178		4.584	4.582	(1.004)		307757	6.42445	557.8513
12 Anthracene	178		4.616	4.619	(1.011)		67810	1.38566	120.3204

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	4.744	4.747	(1.039)	41662	0.90949	78.9731
15 Fluoranthene	202	5.449	5.447	(1.193)	455851	8.93724	776.0433
16 Pyrene	202	5.614	5.613	(0.852)	371781	7.89053	685.1546
17 Benzo(a)anthracene	228	6.581	6.574	(0.999)	231758	5.68217	493.3976
19 Chrysene	228	6.603	6.606	(1.002)	280447	6.74181	585.4083
20 Benzo(b)fluoranthene	252	7.398	7.391	(0.964)	453117	9.88599	858.4258(M)
21 Benzo(k)fluoranthene	252	7.409	7.413	(0.965)	198083	3.89116	337.8796(QM)
22 Benzo(a)pyrene	252	7.623	7.616	(0.993)	285035	6.53975	567.8632
24 Indeno(1,2,3-cd)pyrene	276	8.440	8.427	(1.099)	226405	5.58744	485.1722(M)
25 Dibenzo(a,h)anthracene	278	8.461	8.459	(1.102)	72072	1.88594	163.7612
26 Benzo(g,h,i)perylene	276	8.659	8.651	(1.128)	240949	5.85246	508.1839

QC Flag Legend

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

Data File: 1AD10015.D

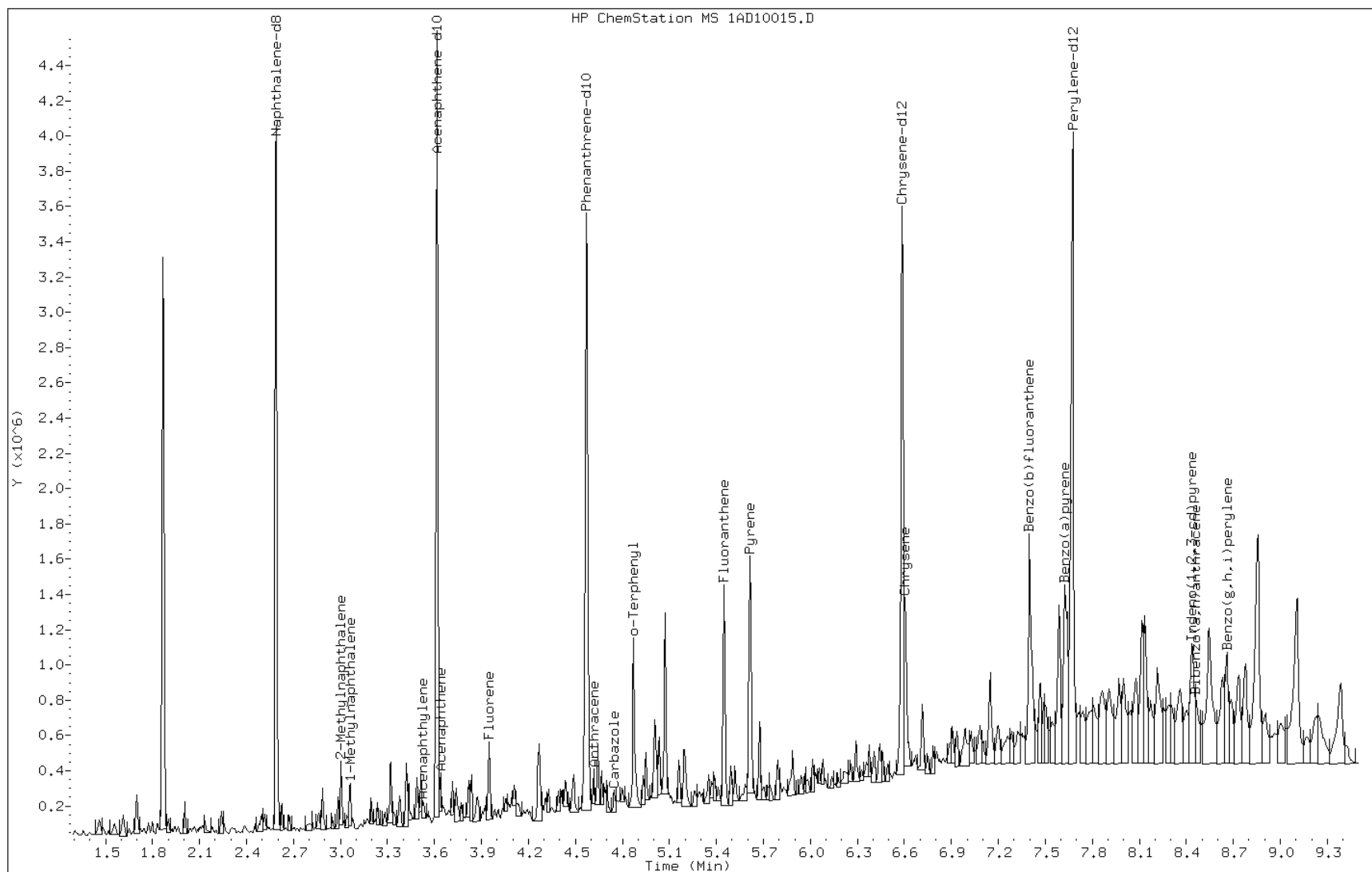
Date: 10-APR-2013 15:42

Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

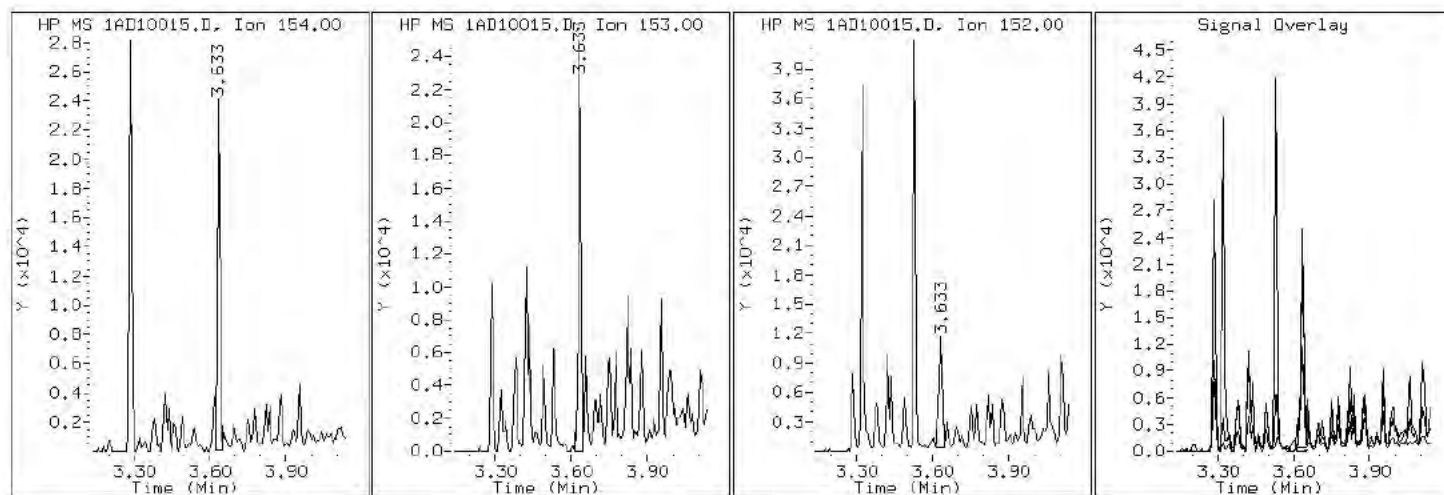
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

7 Acenaphthene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

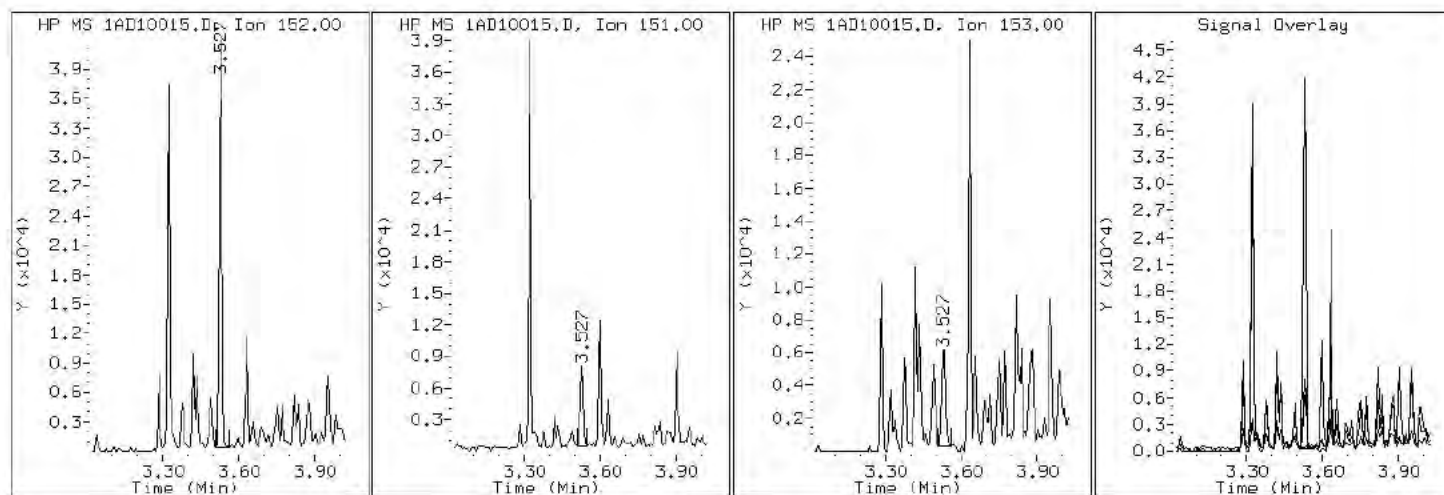
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

5 Acenaphthylene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

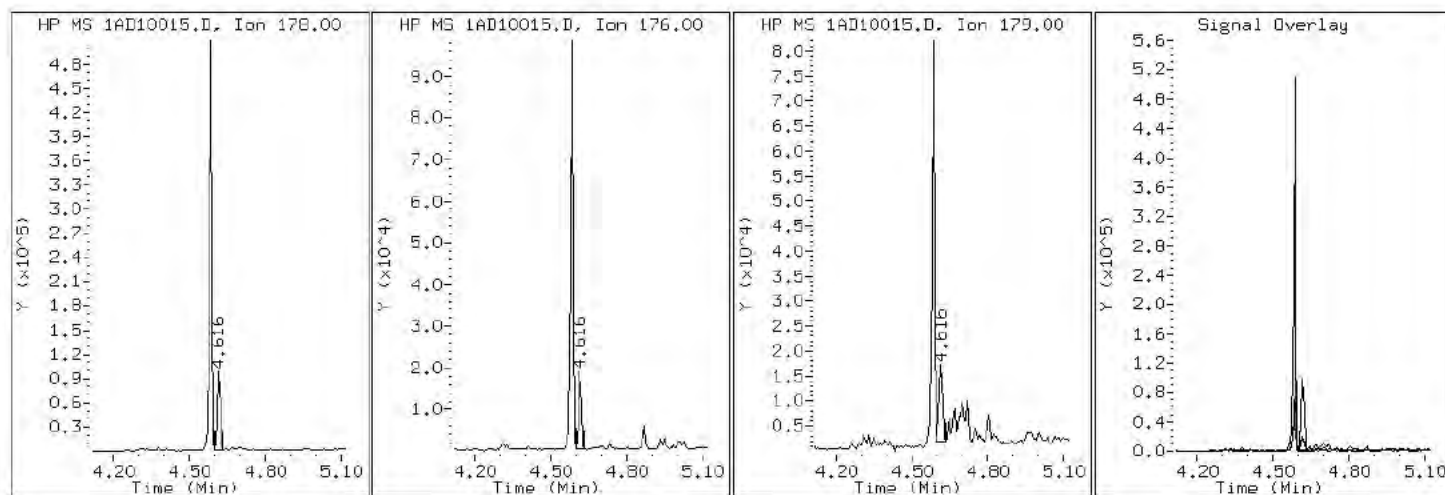
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

12 Anthracene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

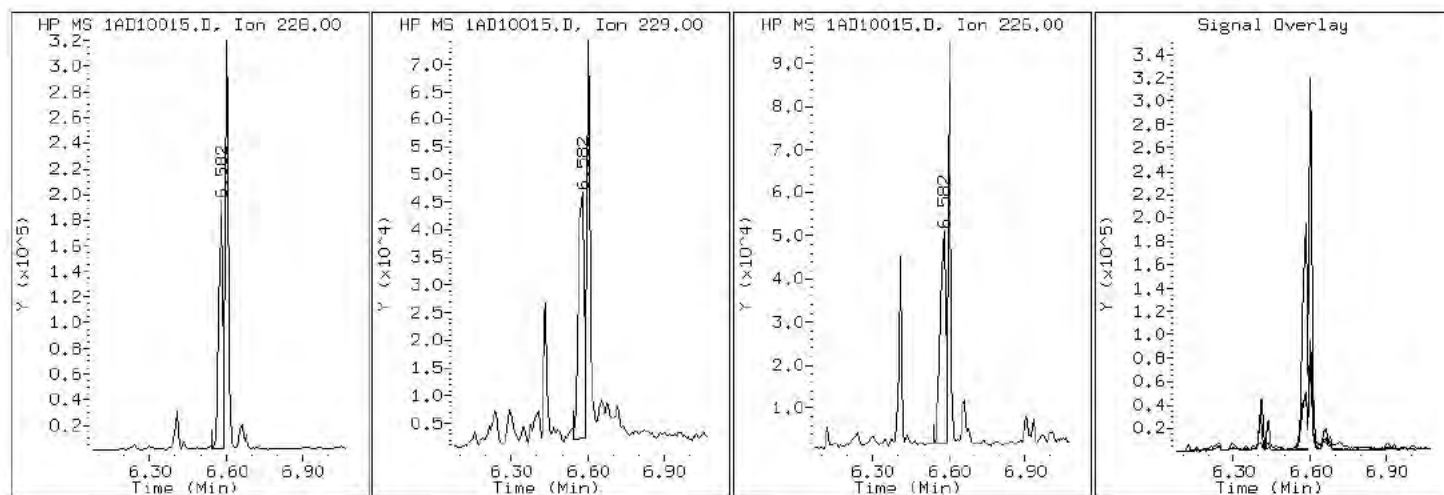
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

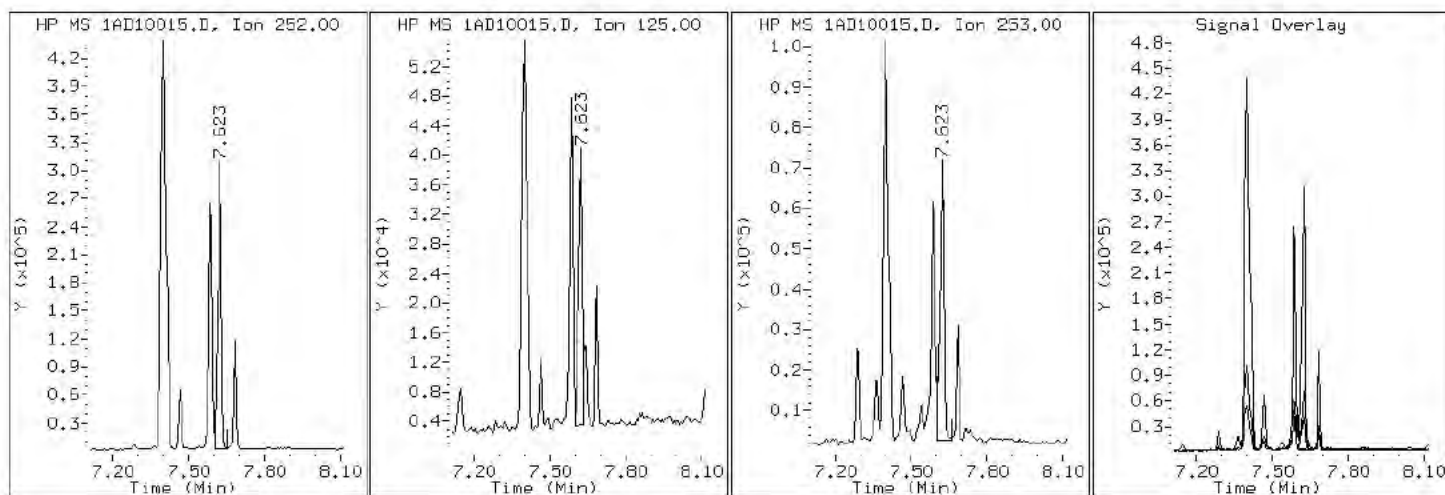
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

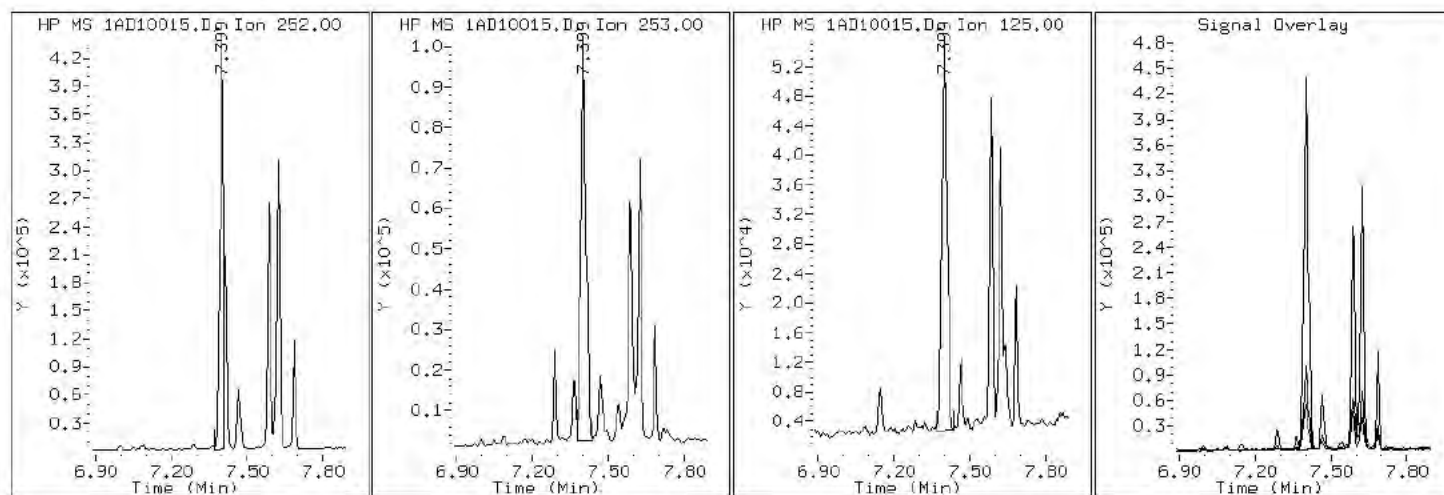
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

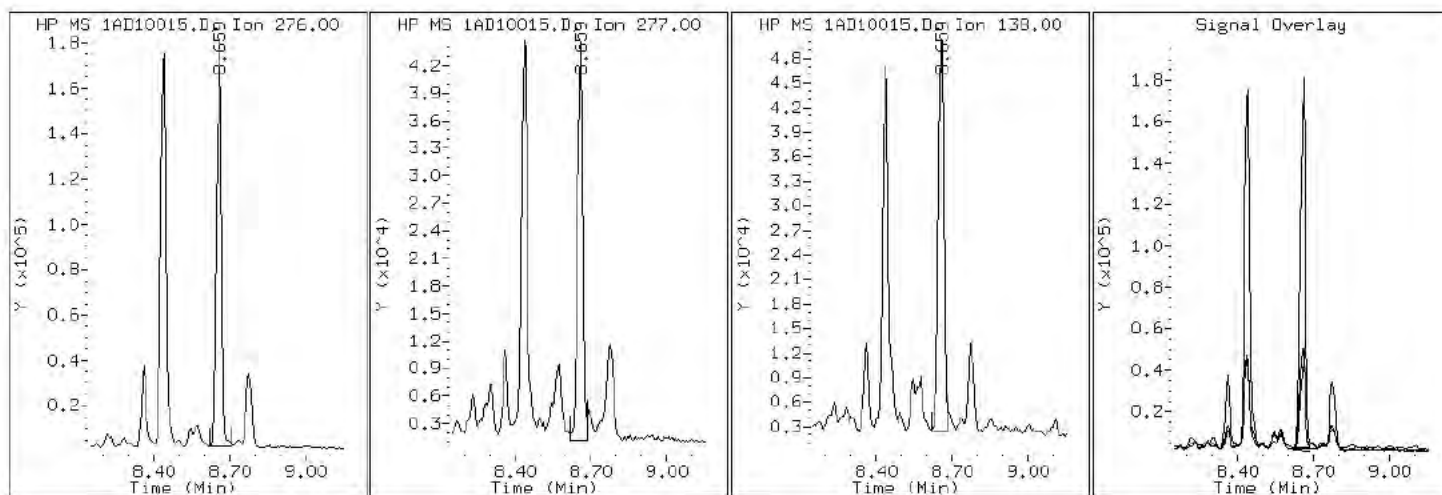
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

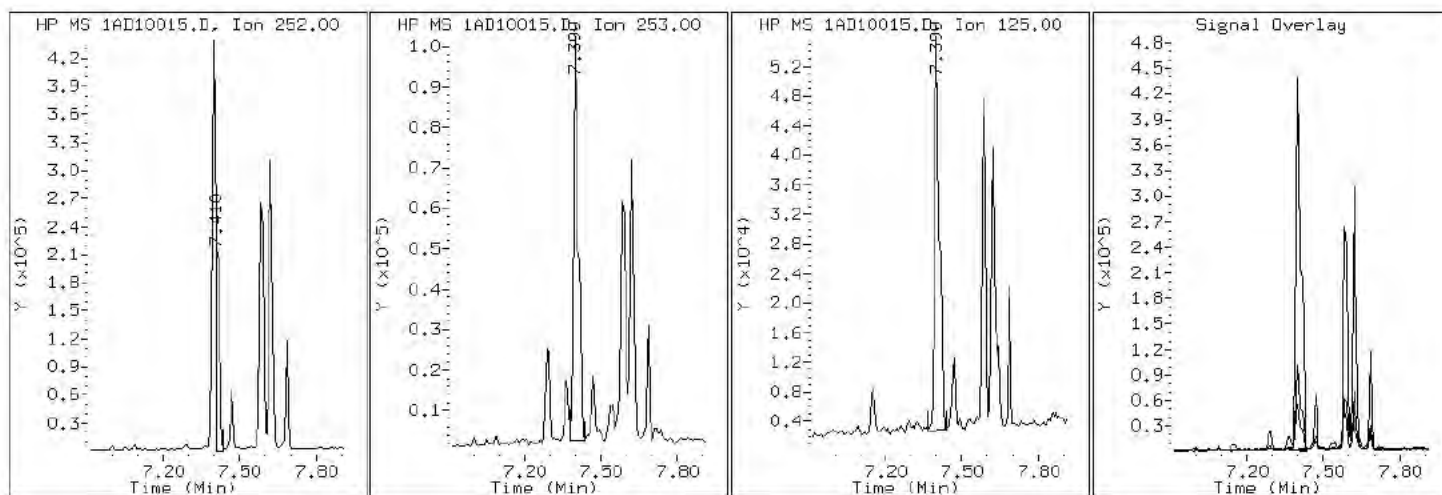
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

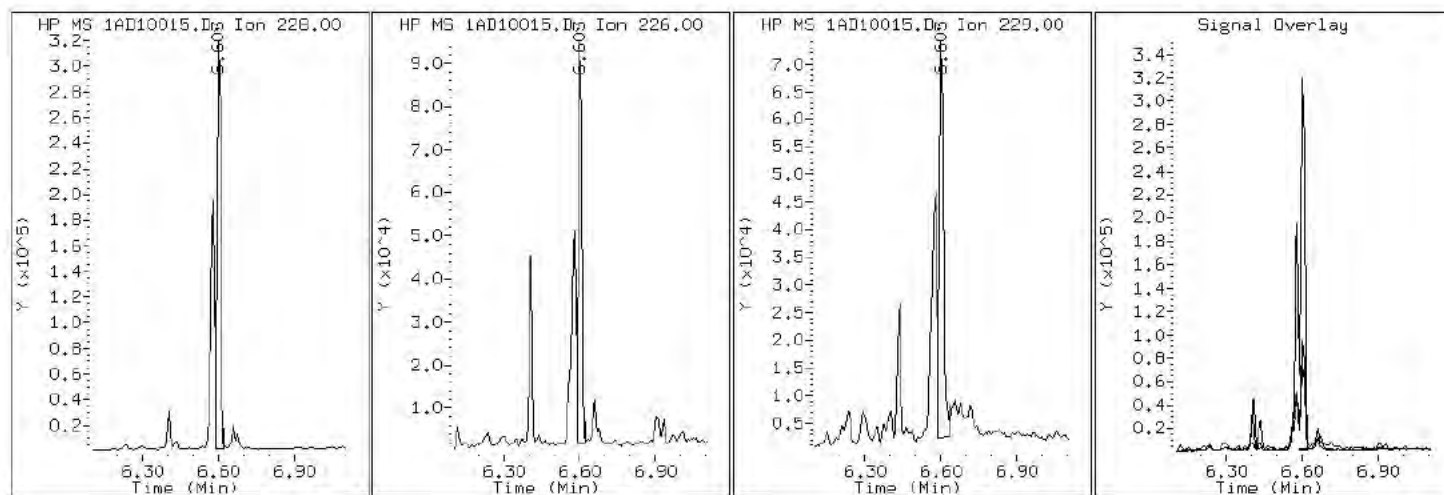
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

19 Chrysene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

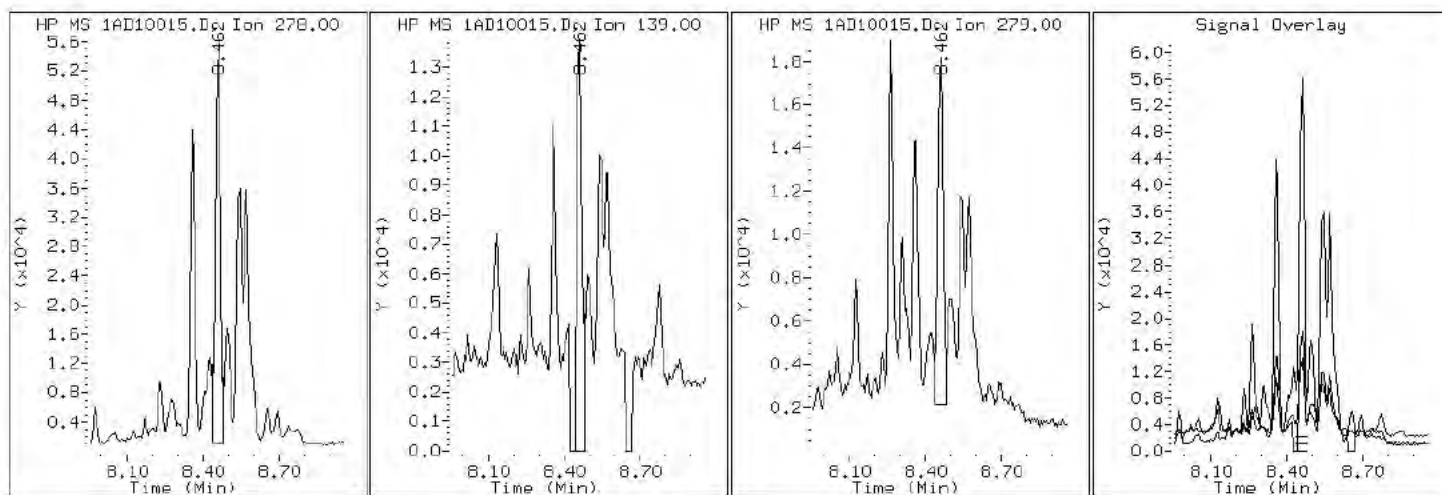
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

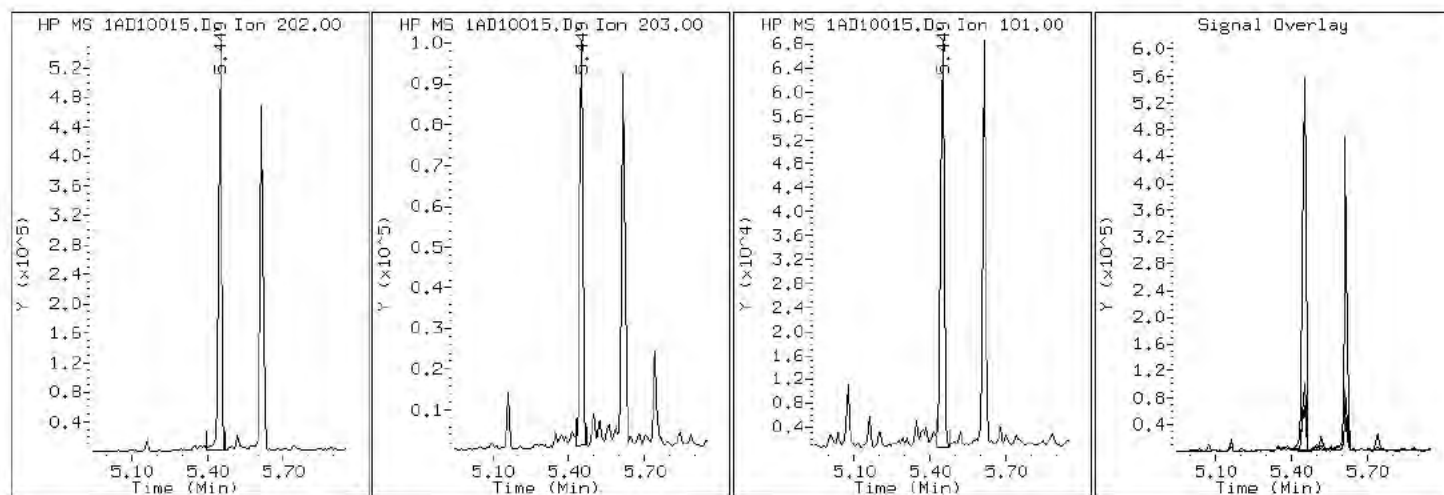
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

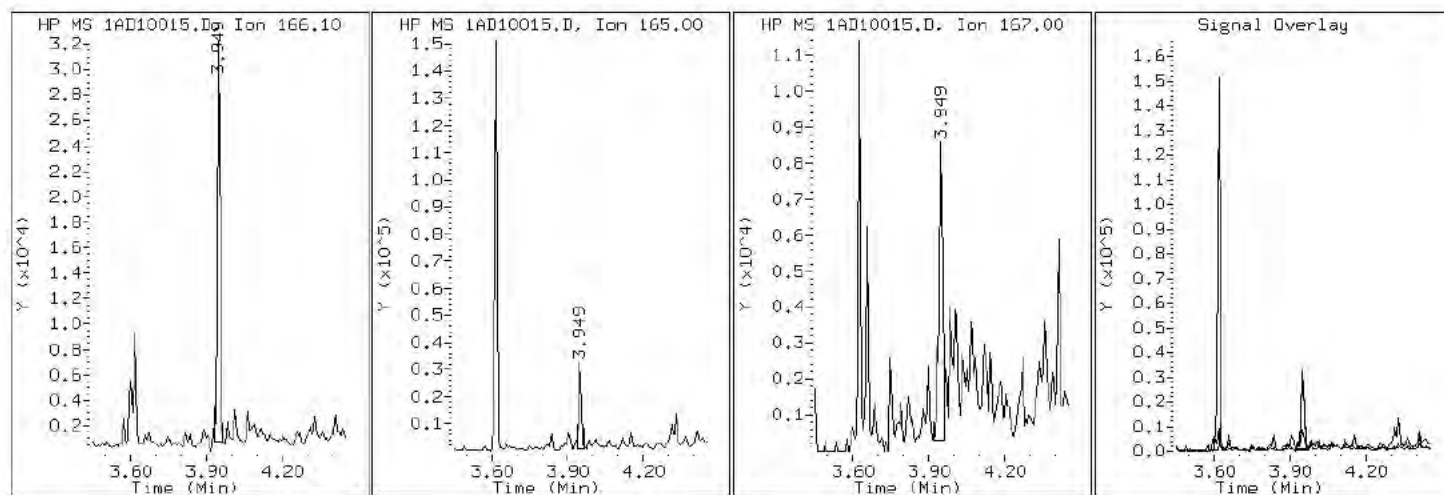
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

9 Fluorene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

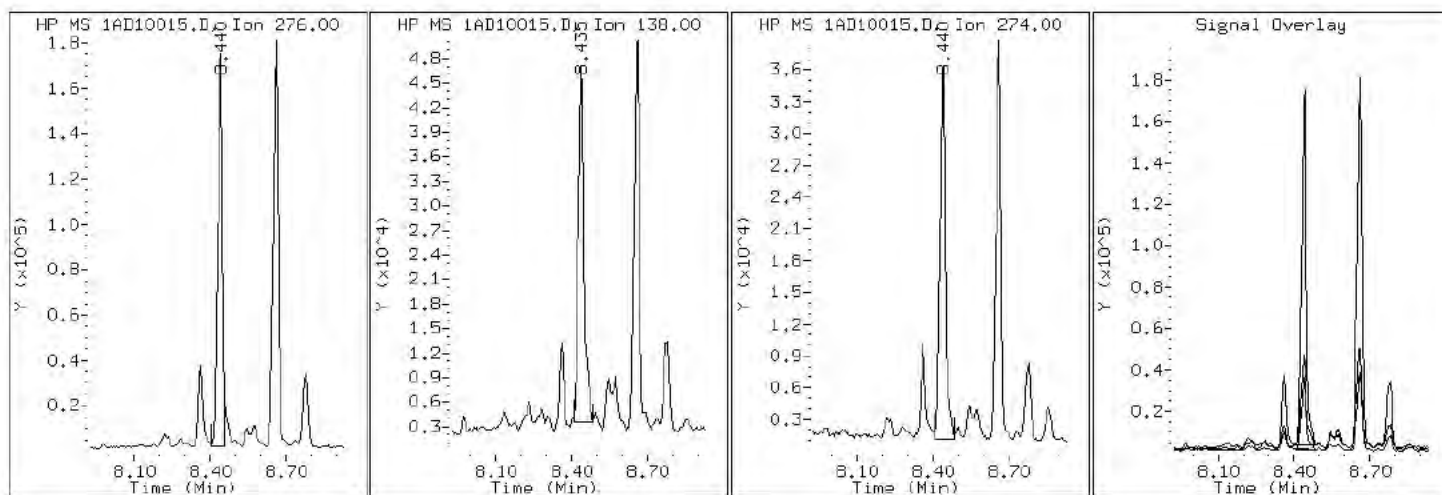
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

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



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

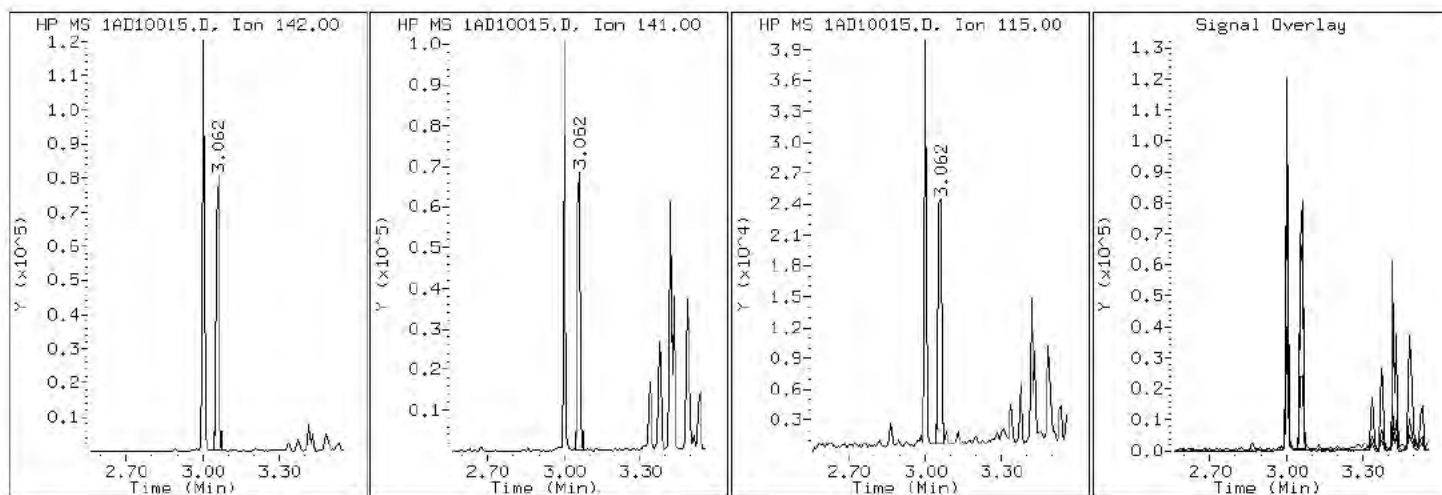
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

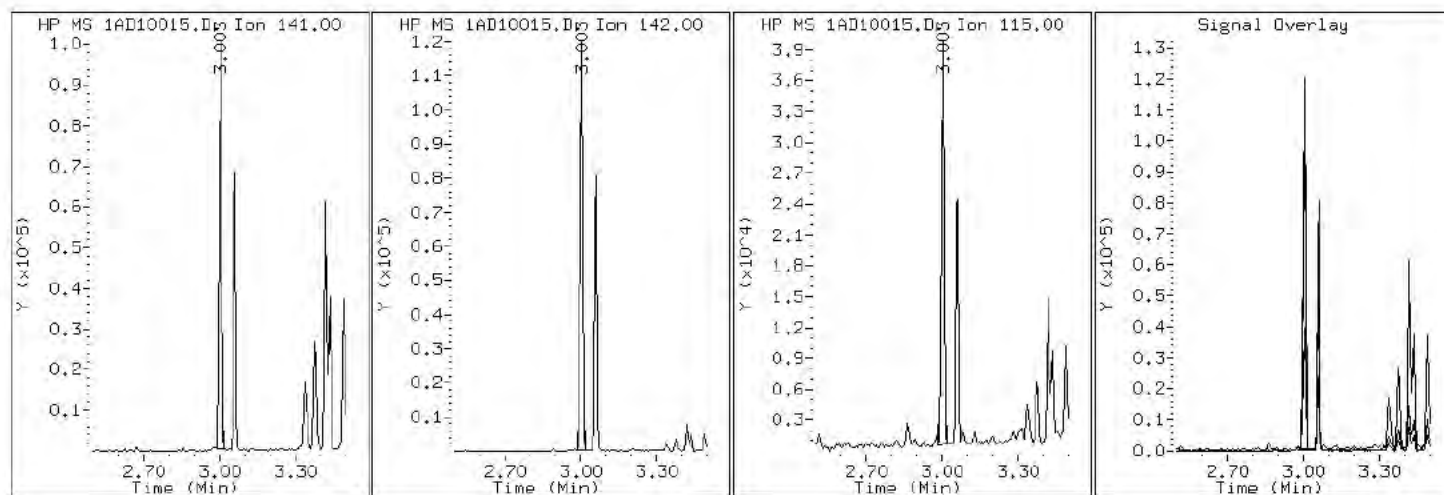
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

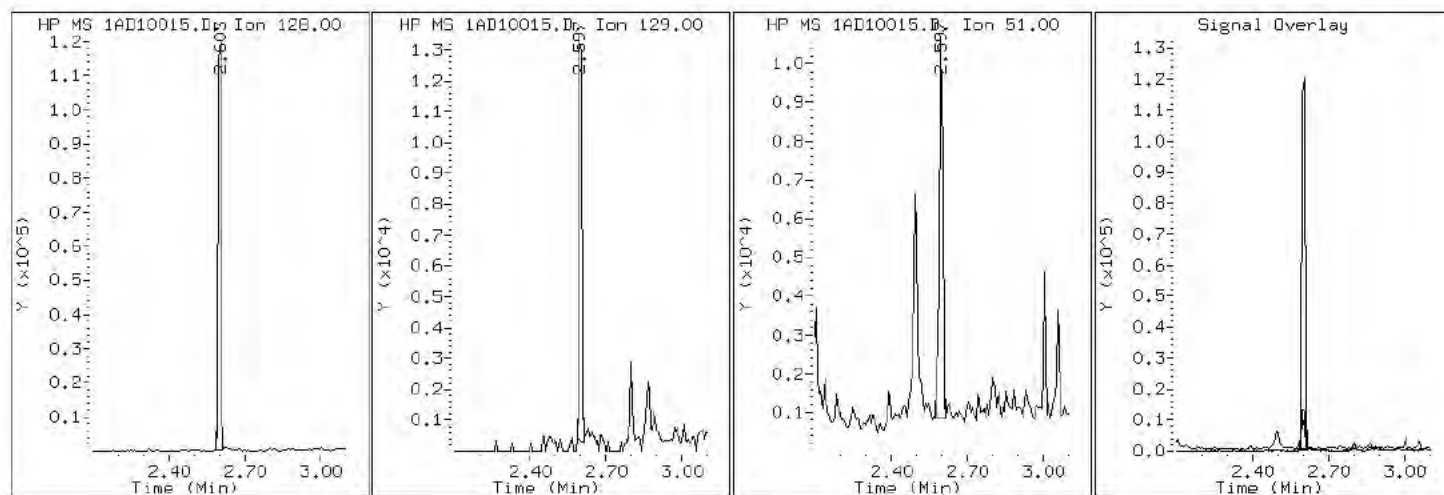
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

2 Naphthalene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

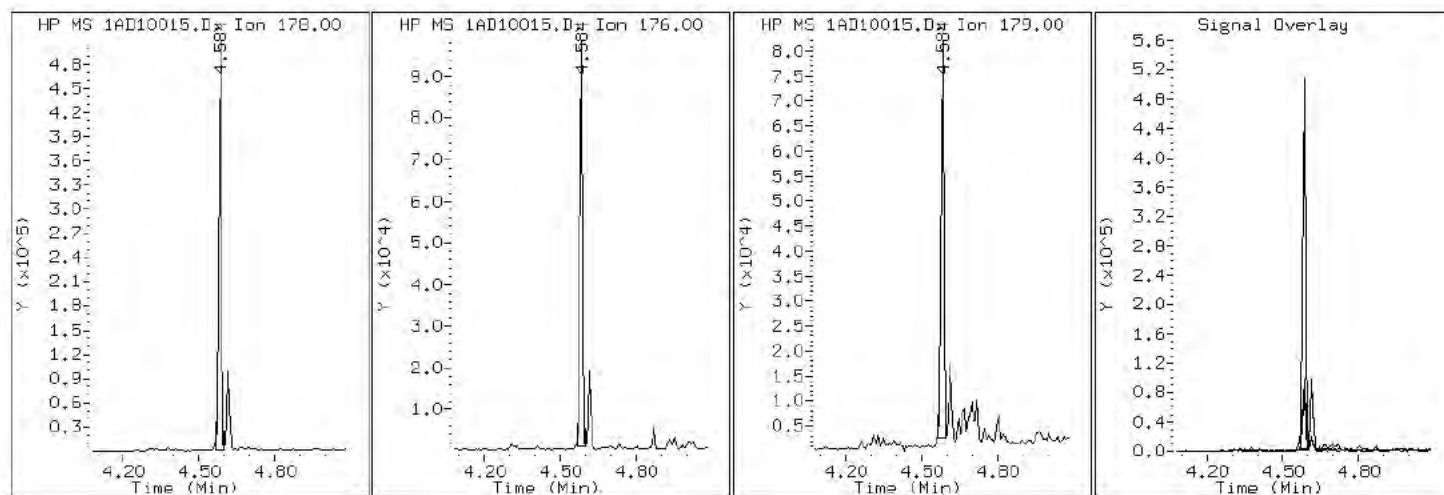
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10015.D

Date: 10-APR-2013 15:42

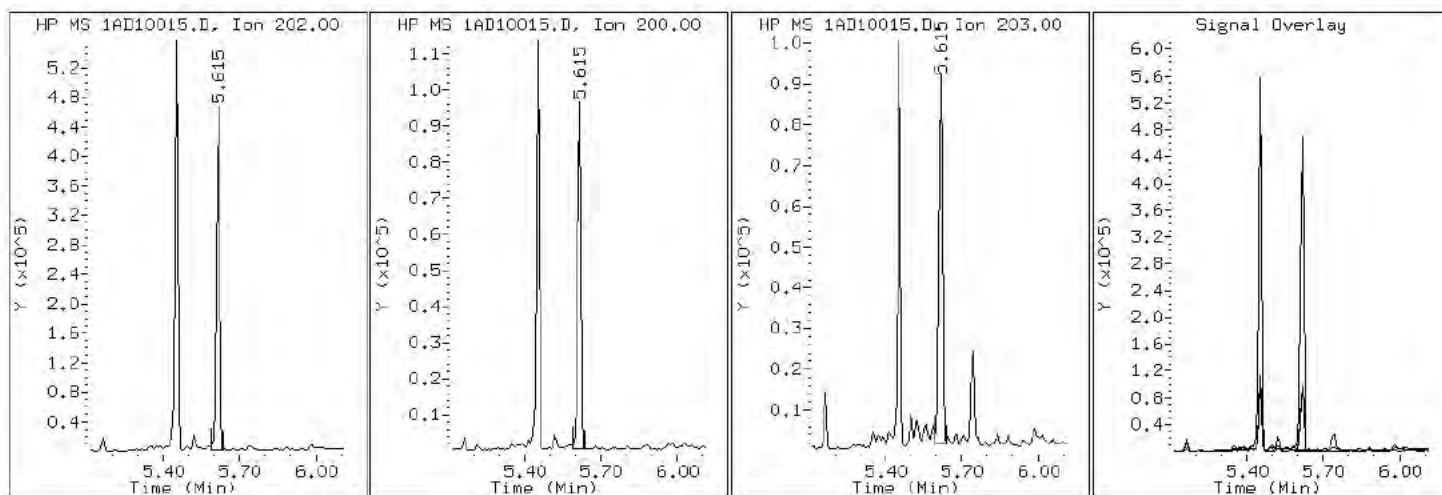
Client ID: CV0501A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-3-a

Operator: SCC

16 Pyrene

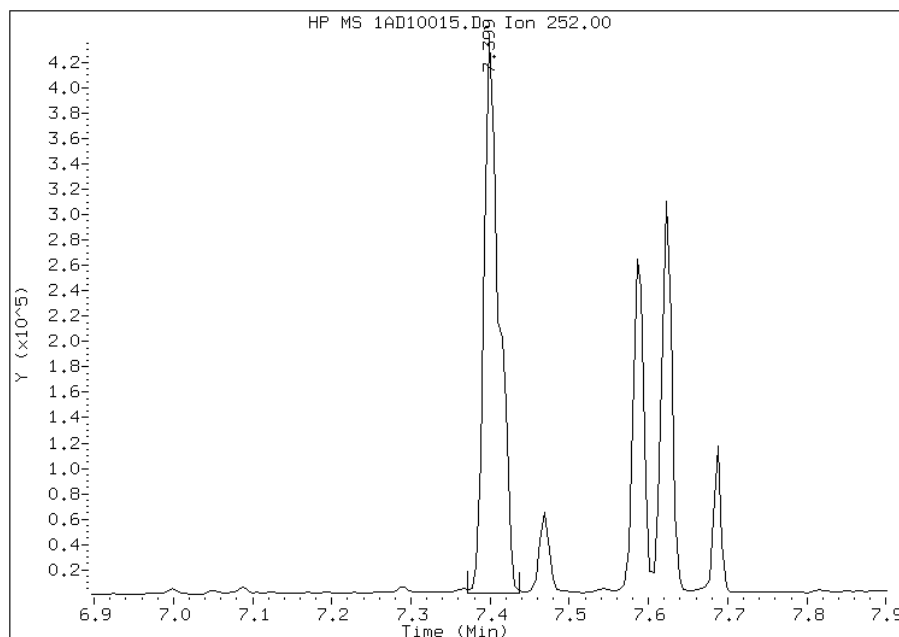


Manual Integration Report

Data File: 1AD10015.D
Inj. Date and Time: 10-APR-2013 15:42
Instrument ID: BSMA5973.i
Client ID: CV0501A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

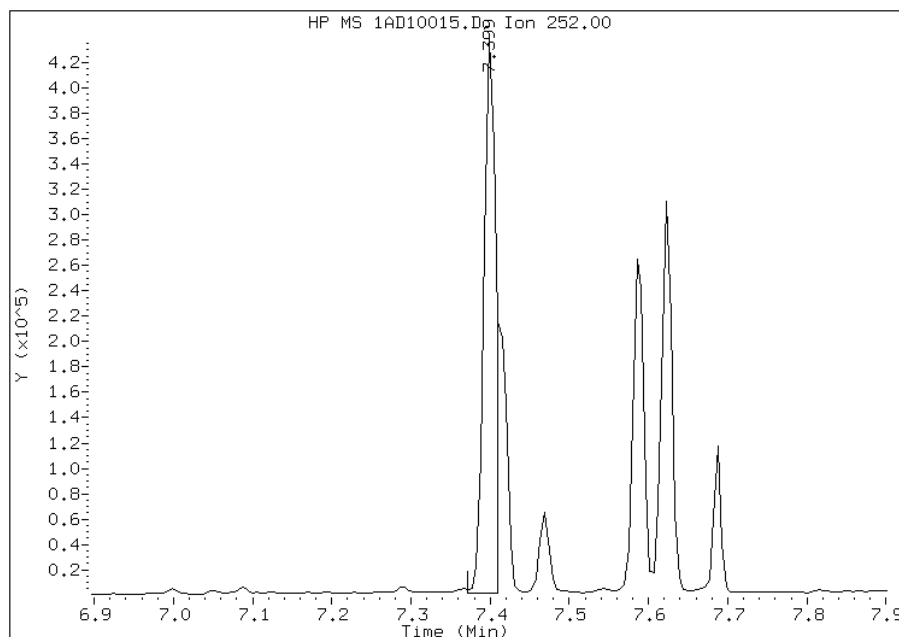
Processing Integration Results

RT: 7.40
Response: 579698
Amount: 13
Conc: 1098



Manual Integration Results

RT: 7.40
Response: 453117
Amount: 10
Conc: 858



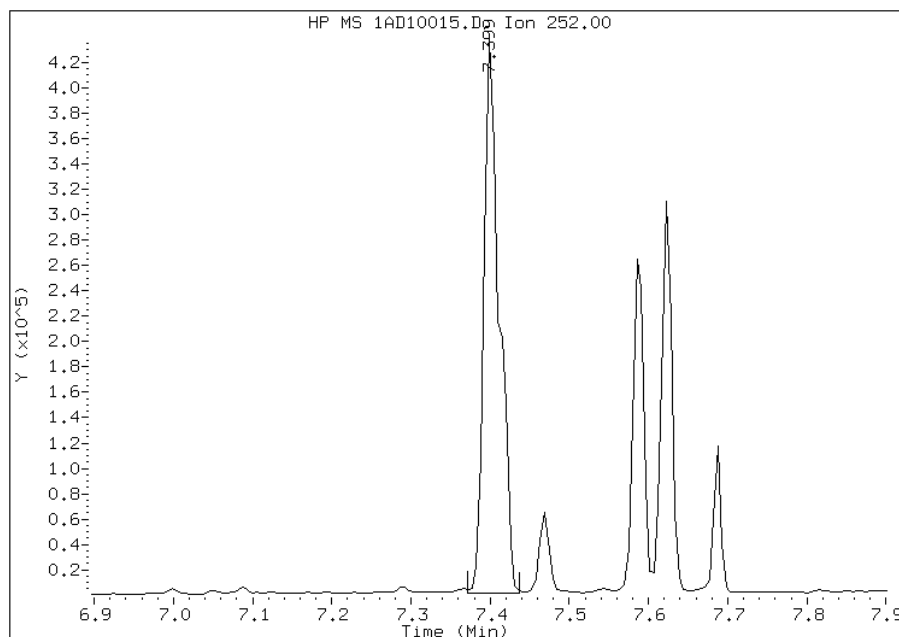
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 10:58
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10015.D
Inj. Date and Time: 10-APR-2013 15:42
Instrument ID: BSMA5973.i
Client ID: CV0501A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

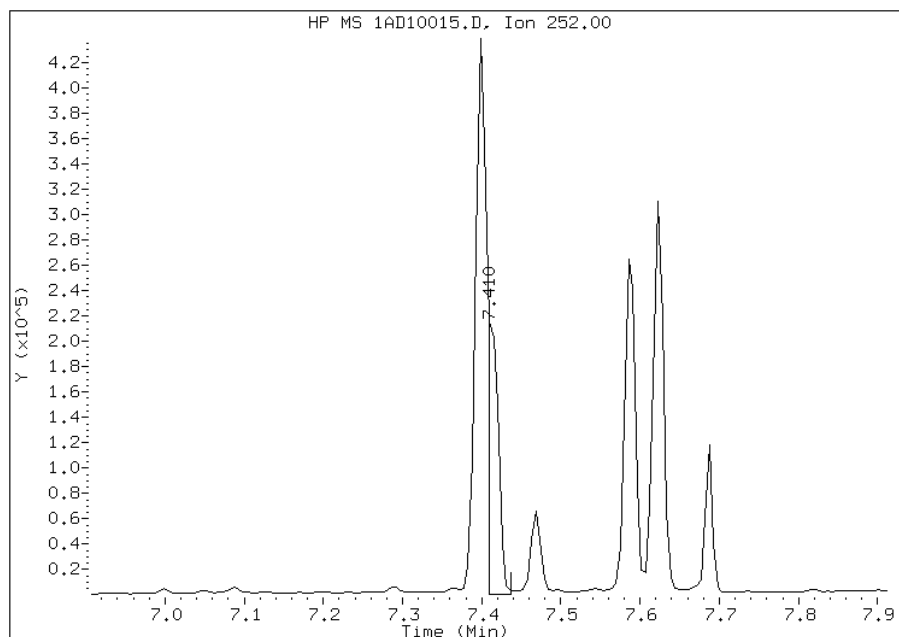
Processing Integration Results

RT: 7.40
Response: 579698
Amount: 11
Conc: 989



Manual Integration Results

RT: 7.41
Response: 198083
Amount: 4
Conc: 338



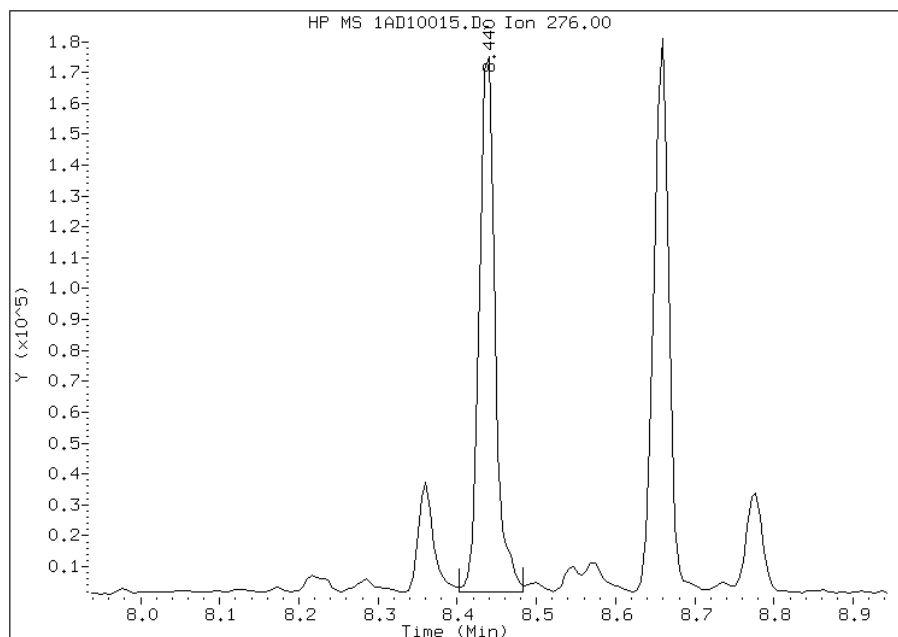
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 10:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10015.D
Inj. Date and Time: 10-APR-2013 15:42
Instrument ID: BSMA5973.i
Client ID: CV0501A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

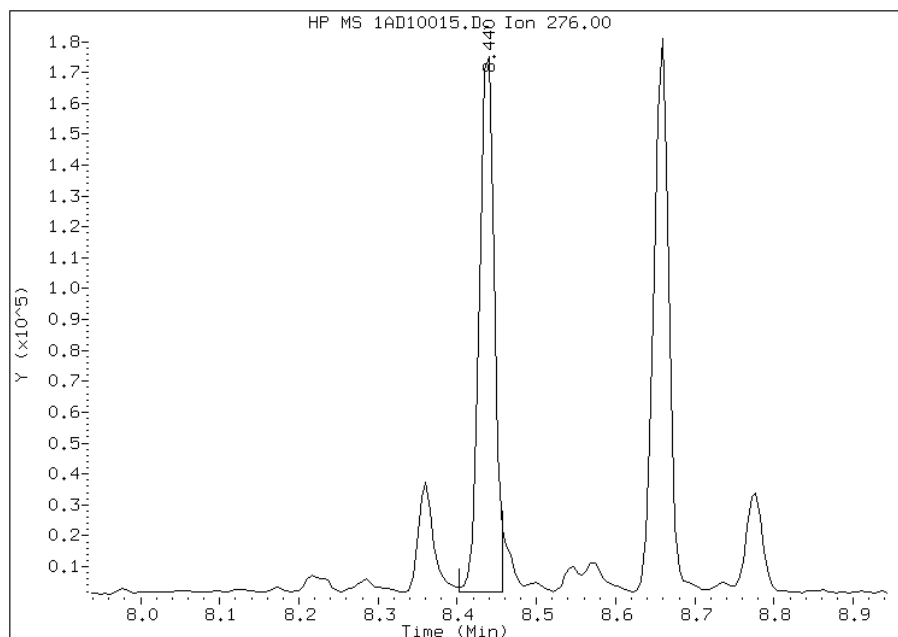
Processing Integration Results

RT: 8.44
Response: 238383
Amount: 6
Conc: 509



Manual Integration Results

RT: 8.44
Response: 226405
Amount: 6
Conc: 485



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 10:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>CV0501B-CS-SP</u>	Lab Sample ID: <u>680-88913-4</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10016.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 14:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.48(g)</u>	Date Analyzed: <u>04/10/2013 15:57</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>39.7</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	32
208-96-8	Acenaphthylene	64	U	64	8.0
120-12-7	Anthracene	13	U	13	6.7
56-55-3	Benzo[a]anthracene	53		13	6.3
50-32-8	Benzo[a]pyrene	69		17	8.4
205-99-2	Benzo[b]fluoranthene	110		20	9.8
191-24-2	Benzo[g,h,i]perylene	67		32	7.1
207-08-9	Benzo[k]fluoranthene	29		13	5.8
218-01-9	Chrysene	65		14	7.2
53-70-3	Dibenz(a,h)anthracene	16	J	32	6.6
206-44-0	Fluoranthene	65		32	6.4
86-73-7	Fluorene	32	U	32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	100		32	11
90-12-0	1-Methylnaphthalene	64	U	64	7.1
91-57-6	2-Methylnaphthalene	41	J	64	11
91-20-3	Naphthalene	53	J	64	7.1
85-01-8	Phenanthrene	61		13	6.3
129-00-0	Pyrene	74		32	5.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10016.D
Lab Smp Id: 680-88913-A-4-A Client Smp ID: CV0501B-CS-SP
Inj Date : 10-APR-2013 15:57
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88913-a-4-a
Misc Info : 680-88913-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1A-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{\text{Vi}} * \frac{\text{Vt}}{\text{Ws}} * \frac{100}{(100 - \text{M})} * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.480	Weight Extracted
M	39.700	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.589	2.584	(1.000)		1696474	40.0000	
* 6 Acenaphthene-d10	164		3.619	3.615	(1.000)		916683	40.0000	
* 10 Phenanthrene-d10	188		4.570	4.571	(1.000)		1452915	40.0000	
\$ 14 o-Terphenyl	230		4.869	4.870	(1.065)		198501	6.52846	699.3901
* 18 Chrysene-d12	240		6.589	6.585	(1.000)		1308246	40.0000	
* 23 Perylene-d12	264		7.673	7.664	(1.000)		1534296	40.0000	
2 Naphthalene	128		2.599	2.600	(1.004)		13677	0.49745	53.2919
3 2-Methylnaphthalene	141		3.005	3.001	(1.161)		7363	0.38413	41.1514
11 Phenanthrene	178		4.581	4.582	(1.002)		19111	0.56704	60.7467
13 Carbazole	167		4.746	4.747	(1.039)		3702	0.13266	14.2117(Q)
15 Fluoranthene	202		5.446	5.447	(1.192)		36663	0.60837	65.1745
16 Pyrene	202		5.612	5.613	(0.852)		34757	0.68945	73.8608
17 Benzo(a)anthracene	228		6.578	6.574	(0.998)		21459	0.49174	52.6796
19 Chrysene	228		6.600	6.606	(1.002)		26928	0.60503	64.8160

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
20 Benzo(b)fluoranthene	252	7.390	7.391	(0.963)	46844	1.00691	107.8696(M)
21 Benzo(k)fluoranthene	252	7.406	7.413	(0.965)	14023	0.27139	29.0742(QM)
22 Benzo(a)pyrene	252	7.615	7.616	(0.992)	28438	0.64282	68.8648
24 Indeno(1,2,3-cd)pyrene	276	8.426	8.427	(1.098)	23476	0.93009	99.6397(M)
25 Dibenzo(a,h)anthracene	278	8.453	8.459	(1.102)	5779	0.14898	15.9606(Q)
26 Benzo(g,h,i)perylene	276	8.640	8.651	(1.126)	26136	0.62543	67.0020

QC Flag Legend

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

Data File: 1AD10016.D

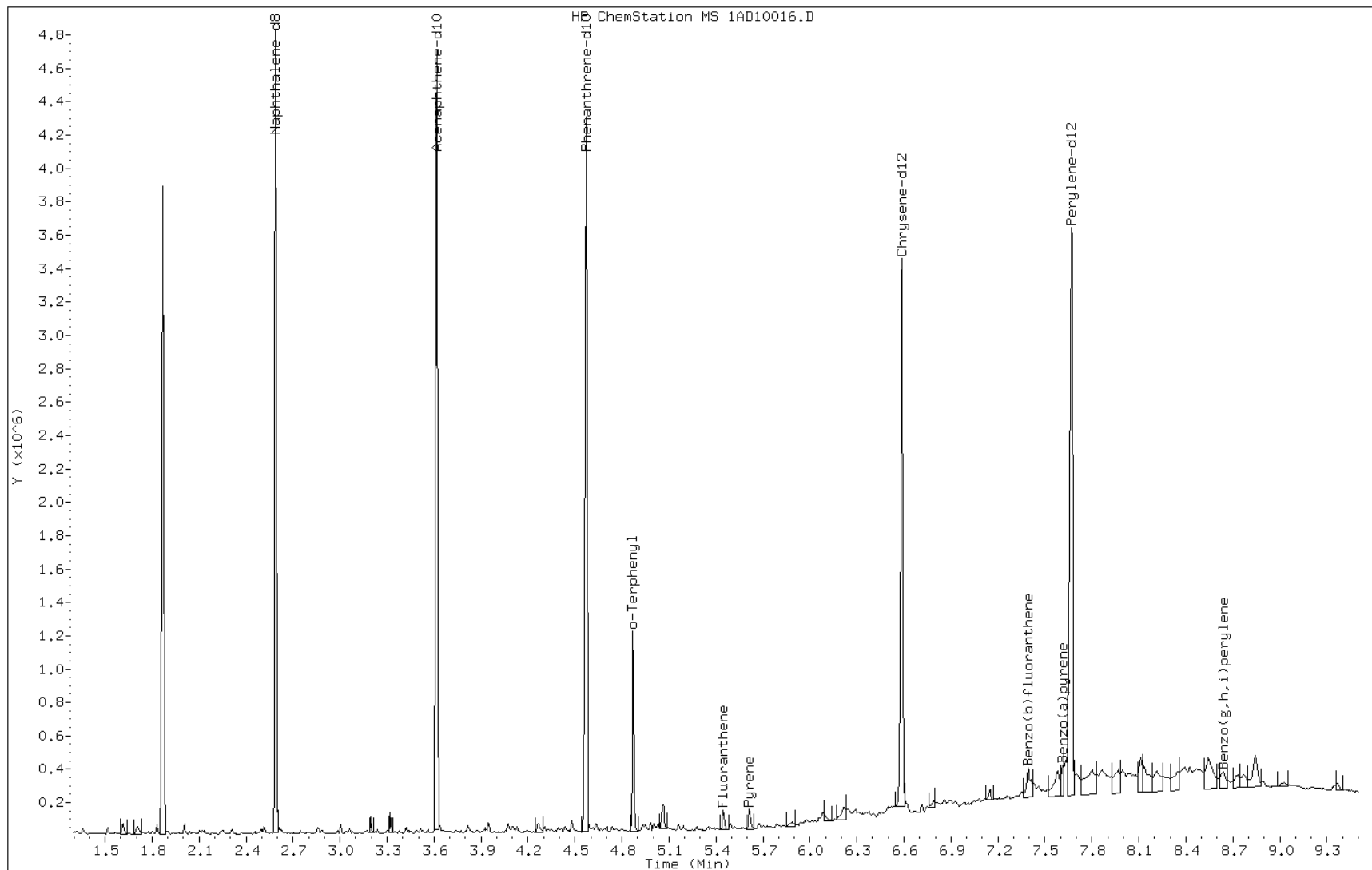
Date: 10-APR-2013 15:57

Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

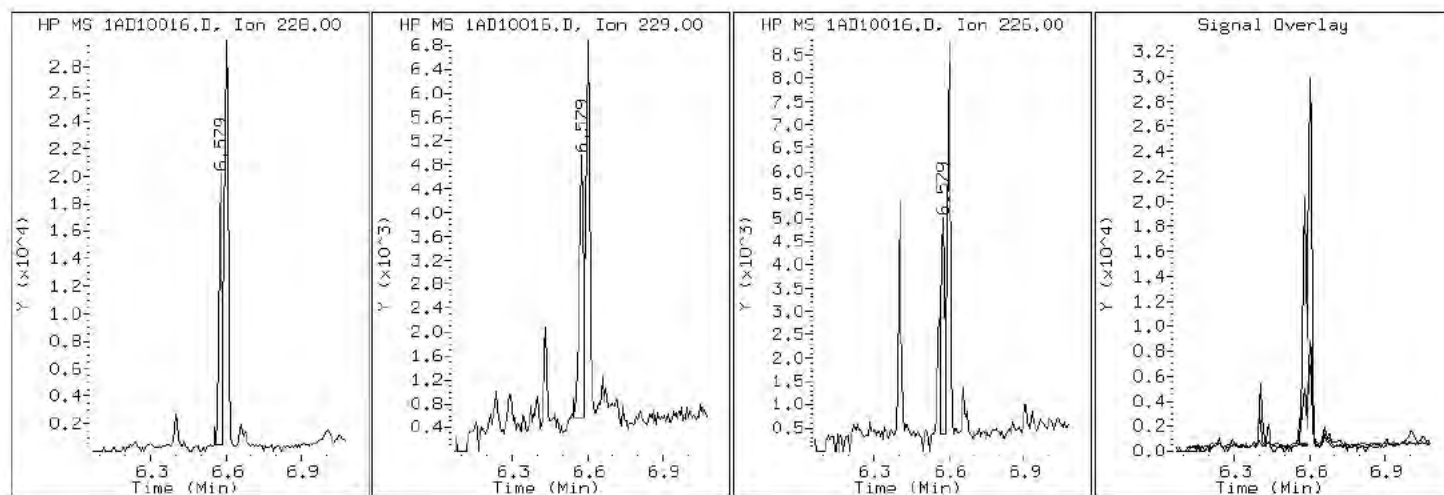
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

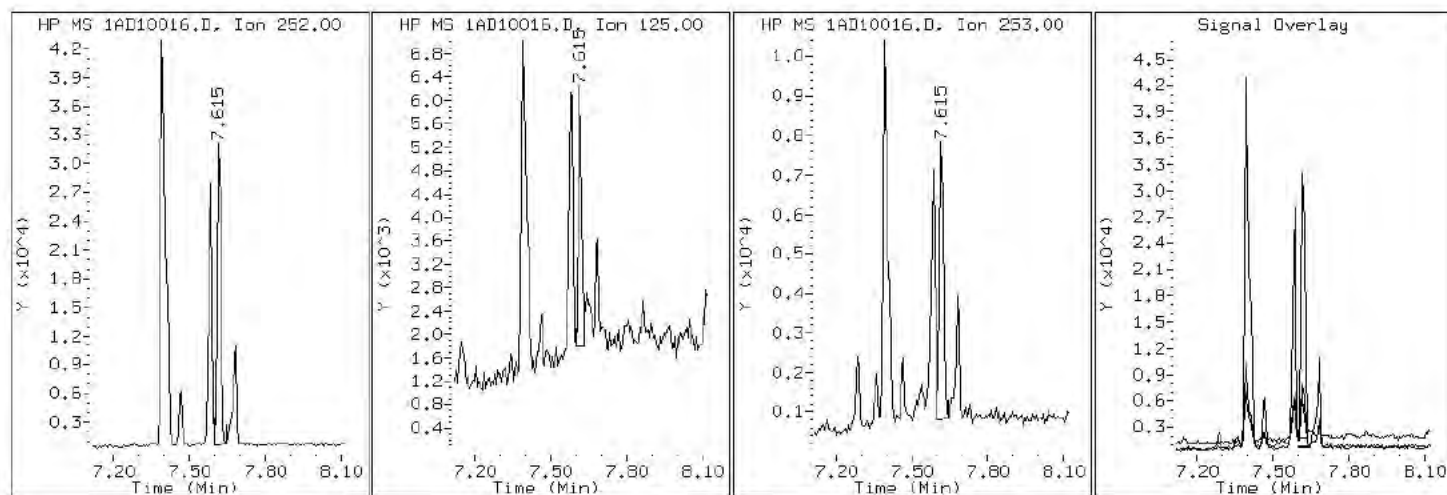
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

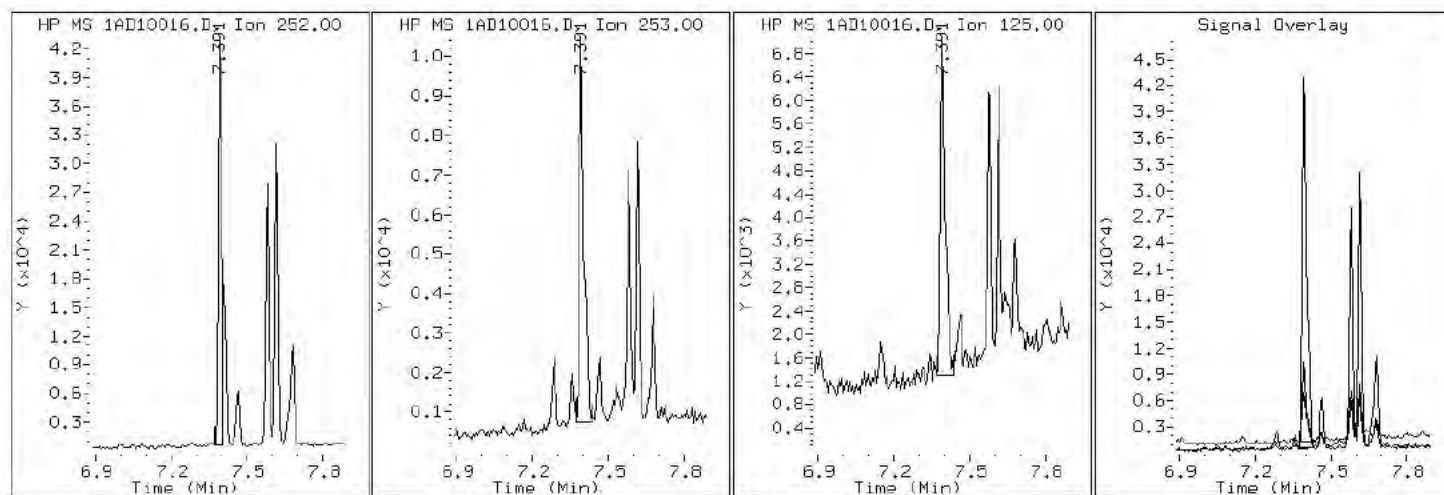
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

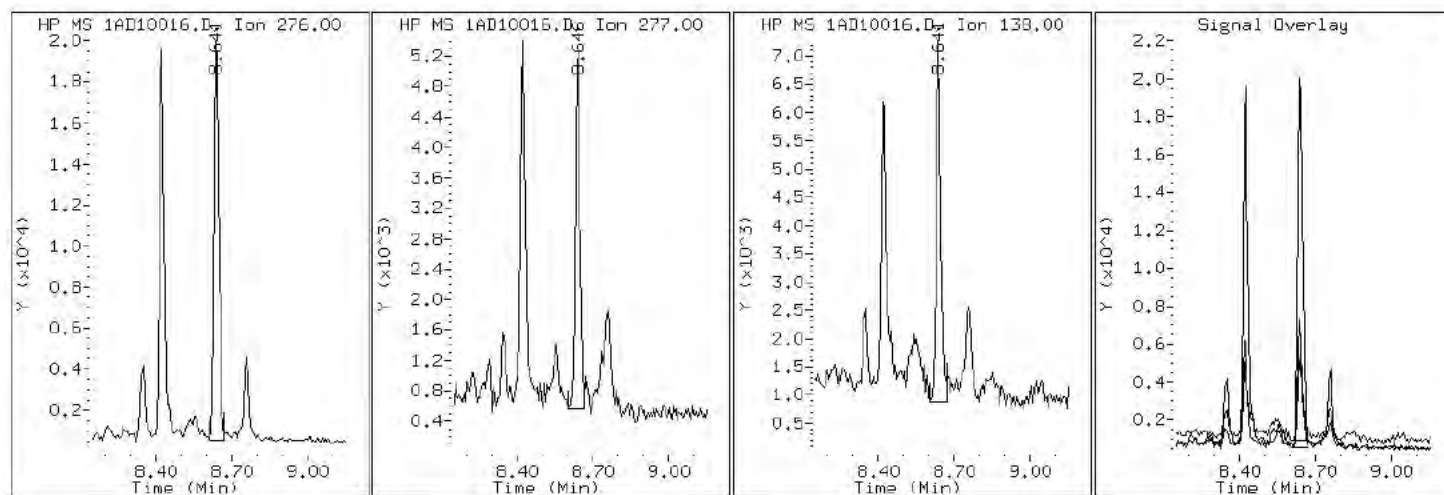
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

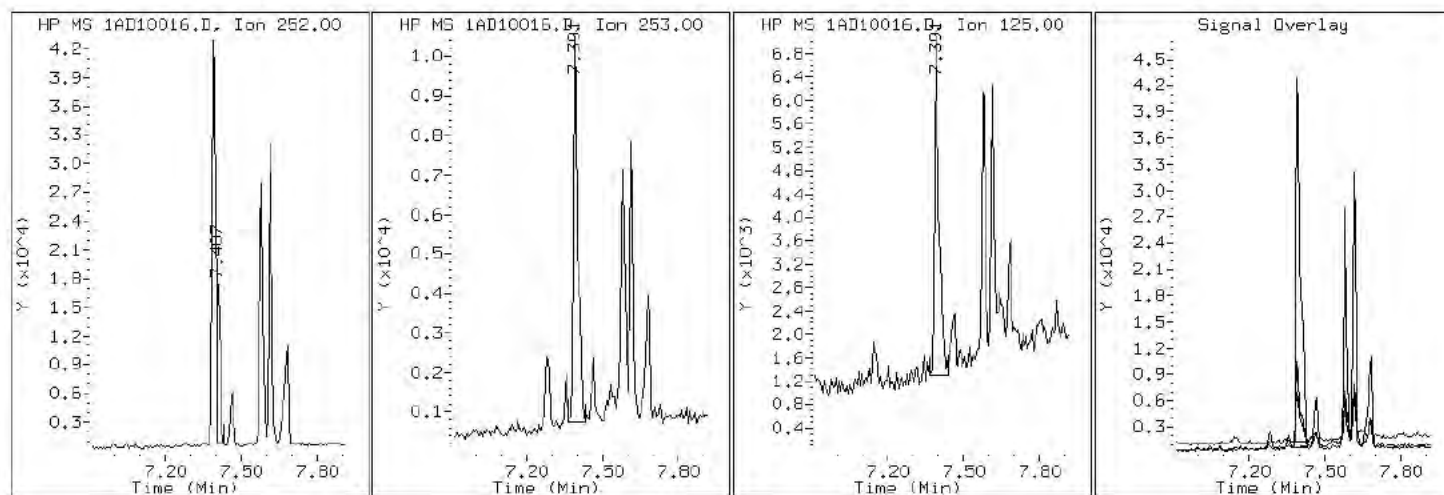
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

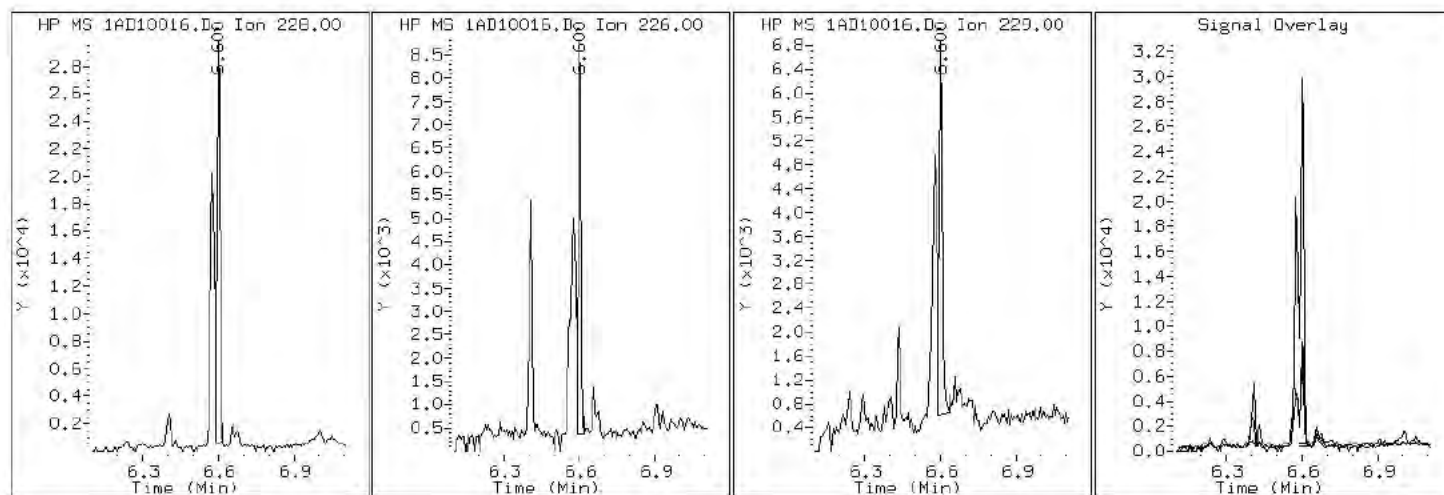
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

19 Chrysene



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

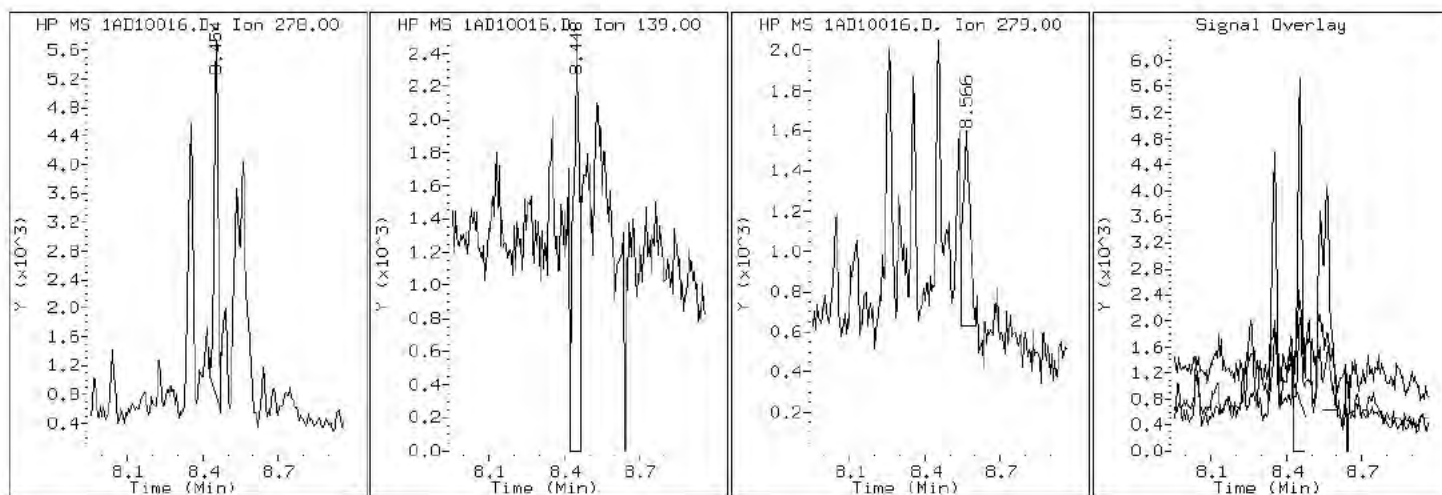
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

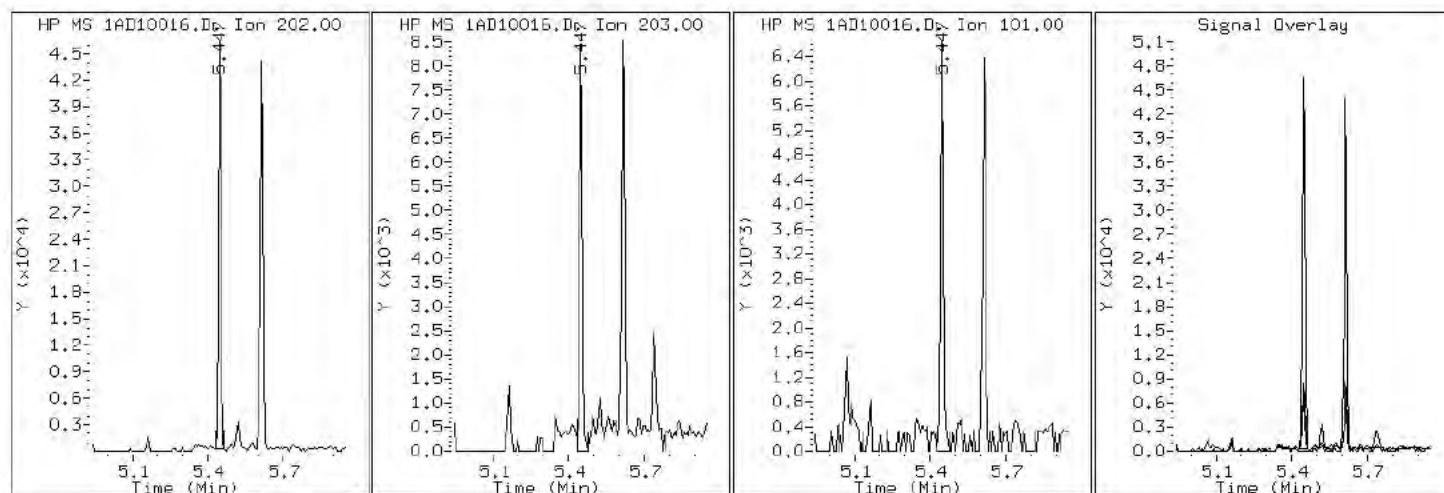
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

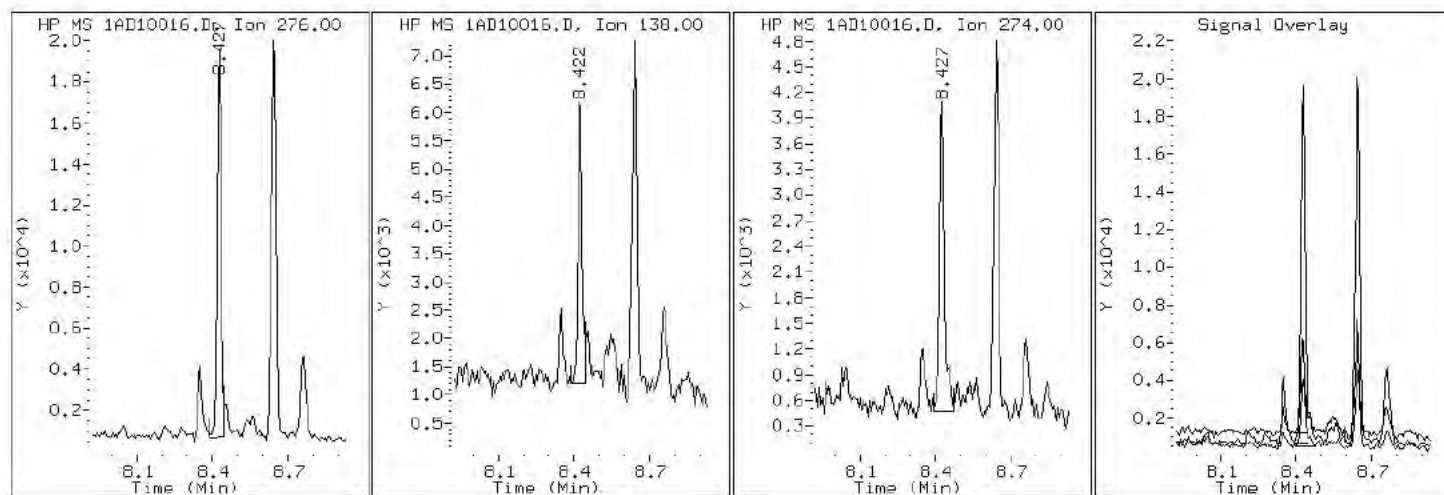
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

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



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

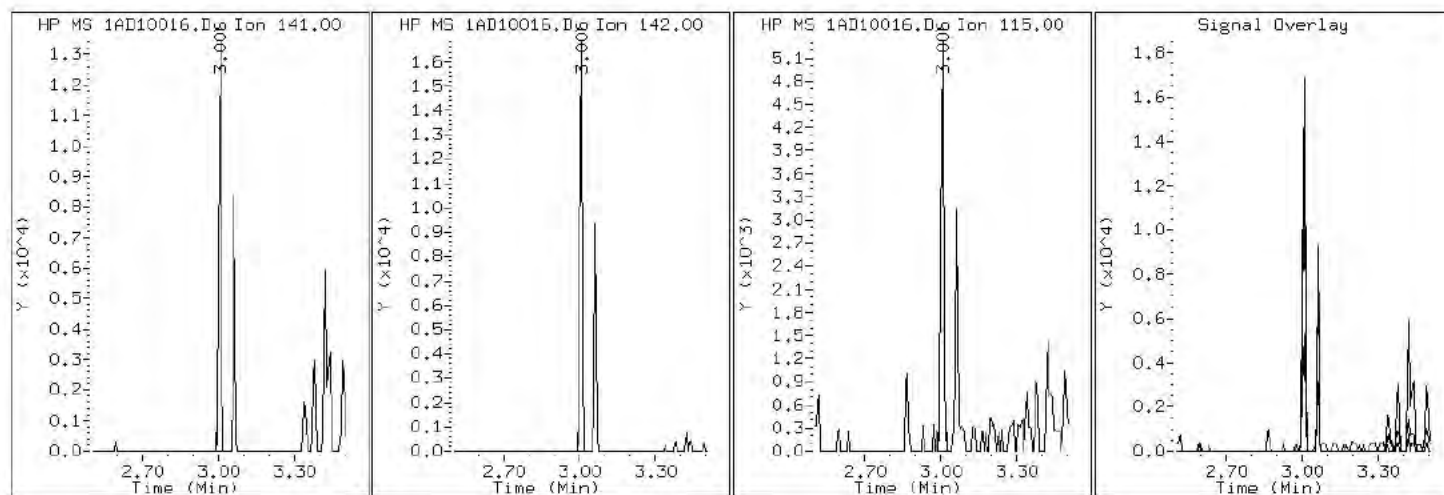
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

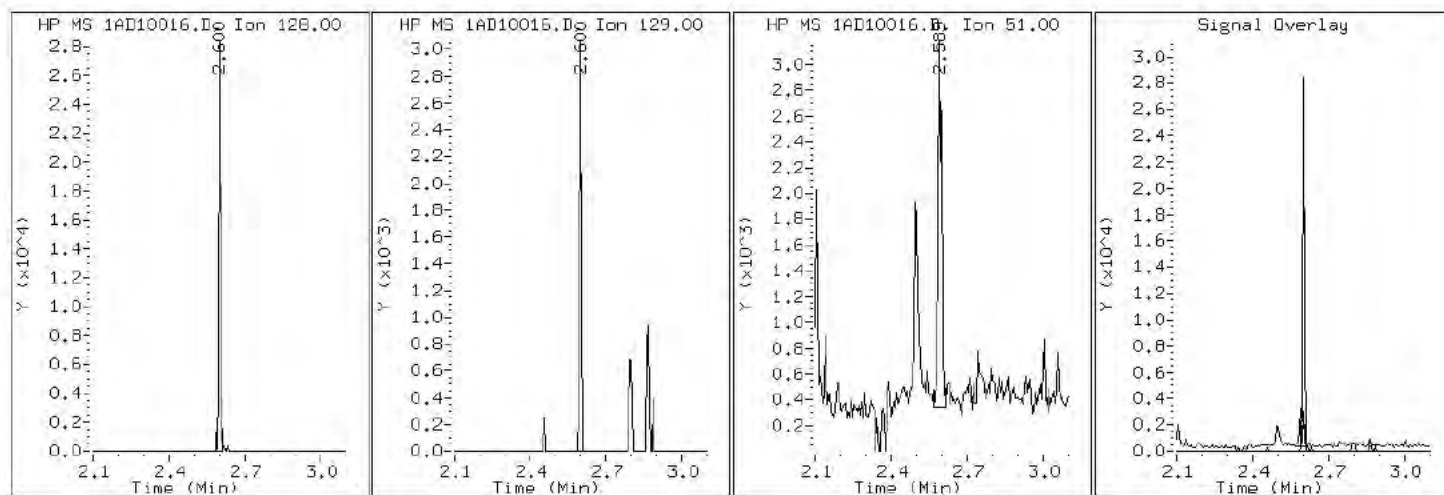
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

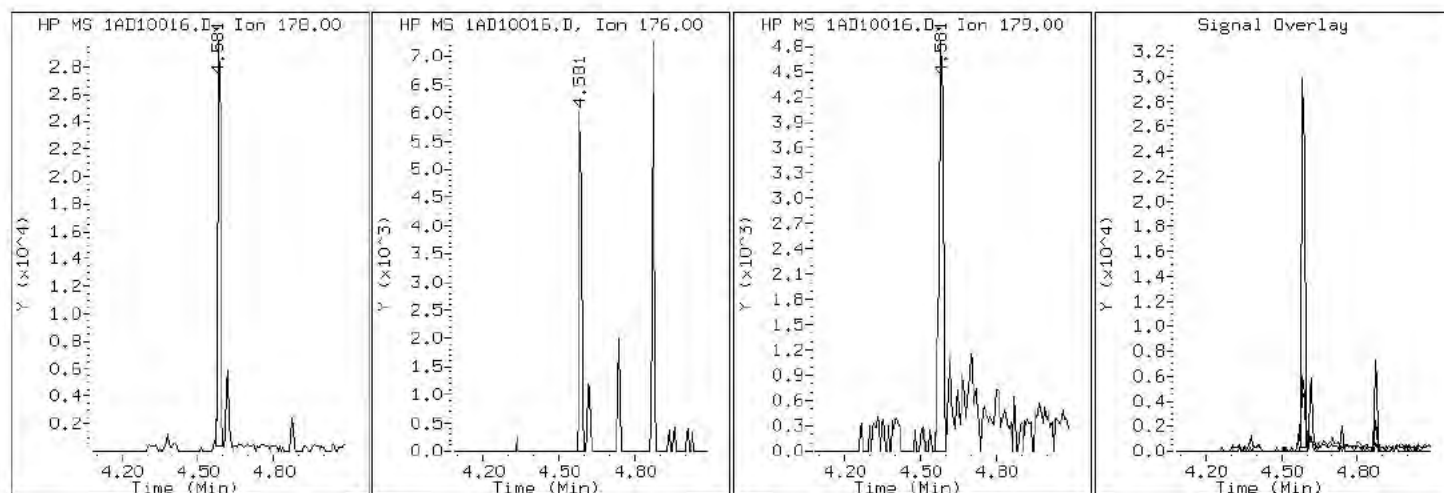
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10016.D

Date: 10-APR-2013 15:57

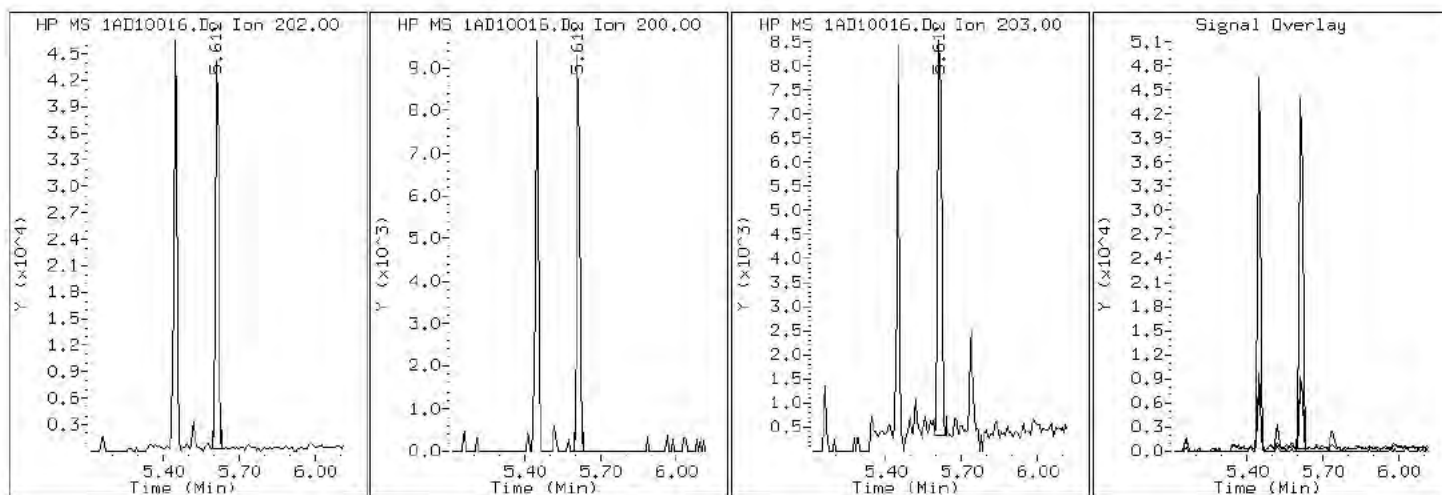
Client ID: CV0501B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-4-a

Operator: SCC

16 Pyrene

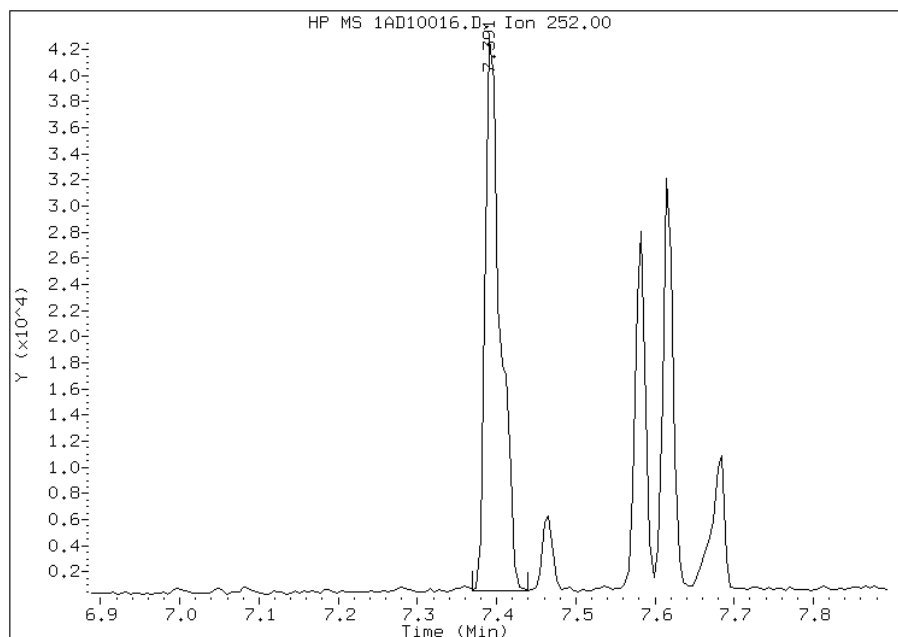


Manual Integration Report

Data File: 1AD10016.D
Inj. Date and Time: 10-APR-2013 15:57
Instrument ID: BSMA5973.i
Client ID: CV0501B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

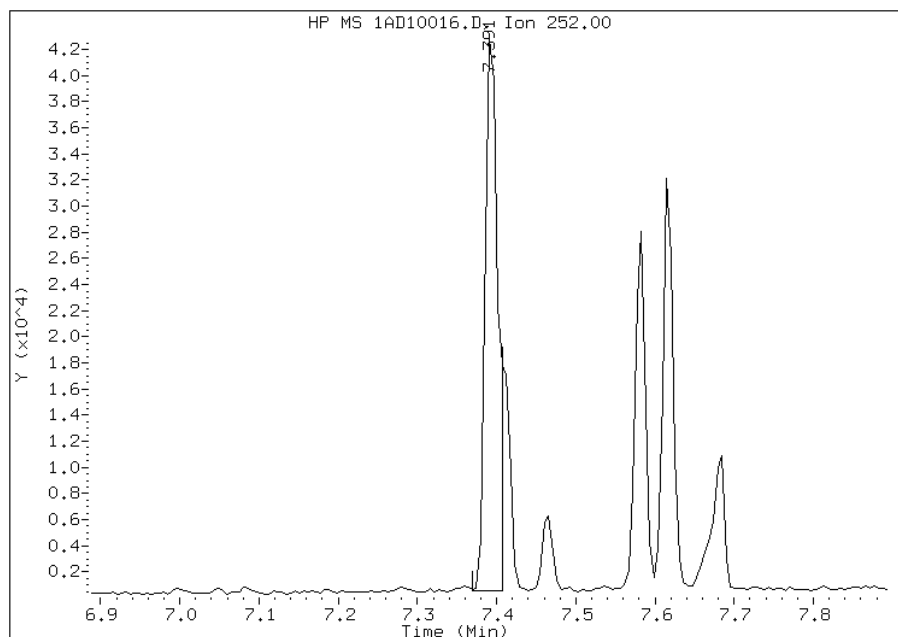
Processing Integration Results

RT: 7.39
Response: 55821
Amount: 1
Conc: 129



Manual Integration Results

RT: 7.39
Response: 46844
Amount: 1
Conc: 108



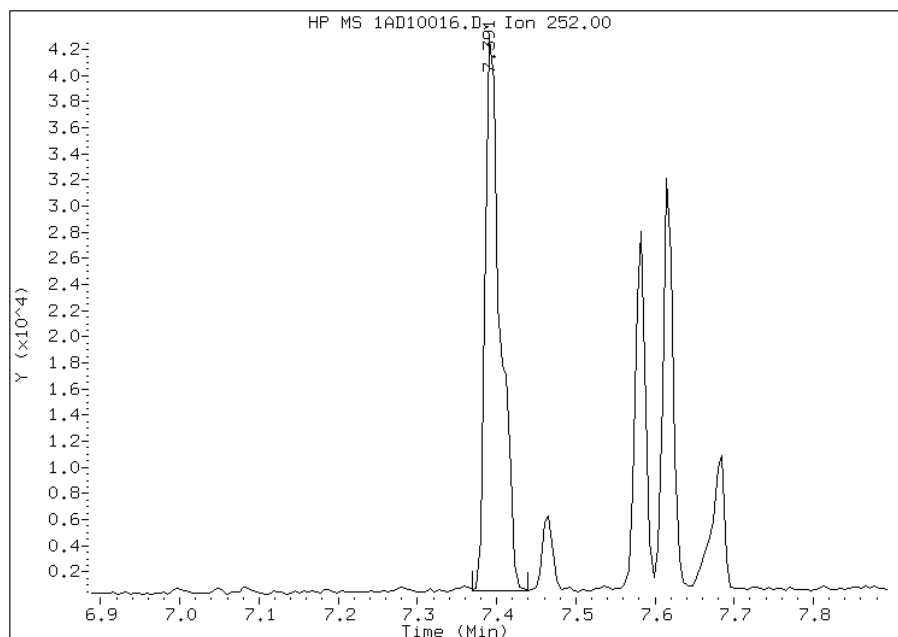
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10016.D
Inj. Date and Time: 10-APR-2013 15:57
Instrument ID: BSMA5973.i
Client ID: CV0501B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

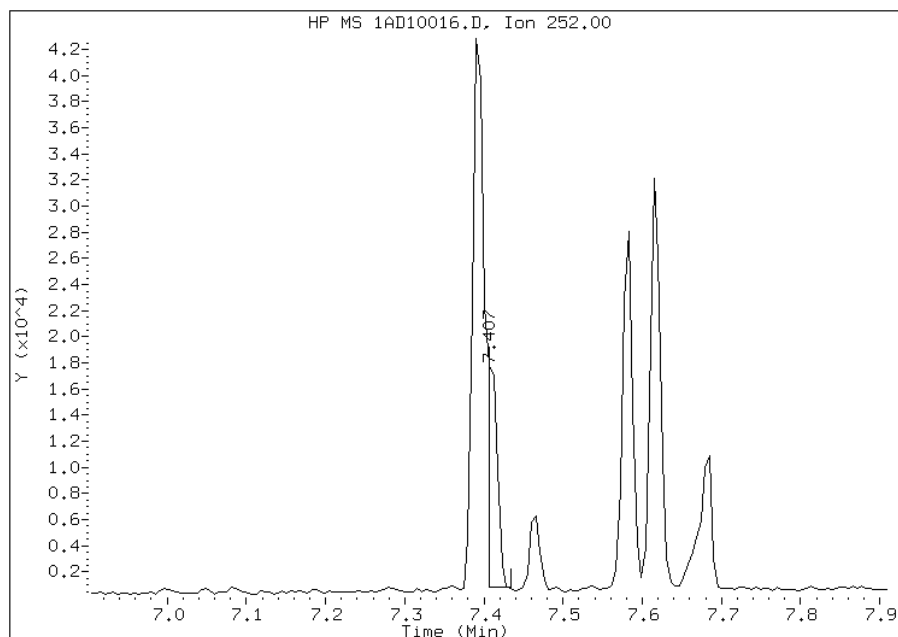
Processing Integration Results

RT: 7.39
Response: 55821
Amount: 1
Conc: 116



Manual Integration Results

RT: 7.41
Response: 14023
Amount: 0
Conc: 29



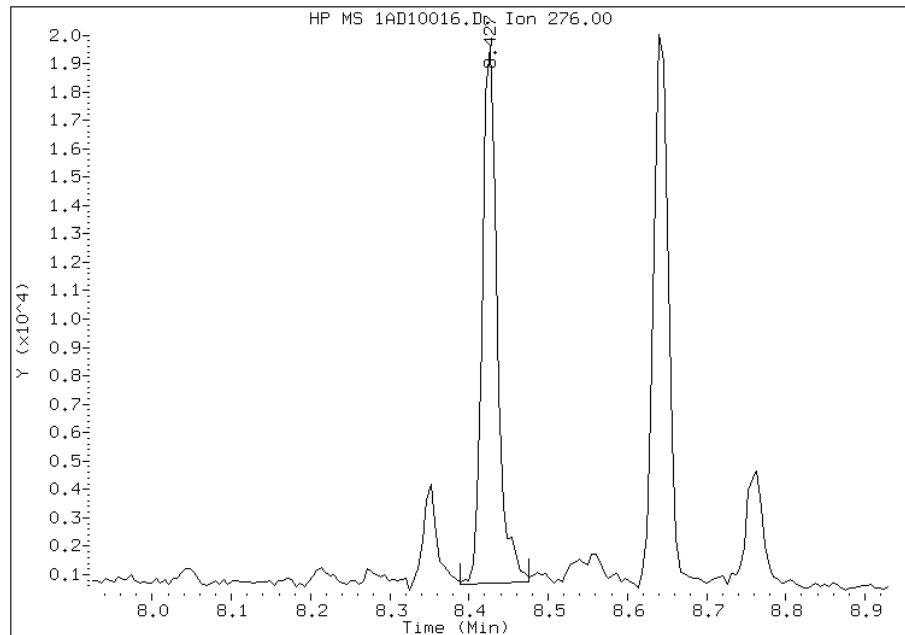
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10016.D
Inj. Date and Time: 10-APR-2013 15:57
Instrument ID: BSMA5973.i
Client ID: CV0501B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

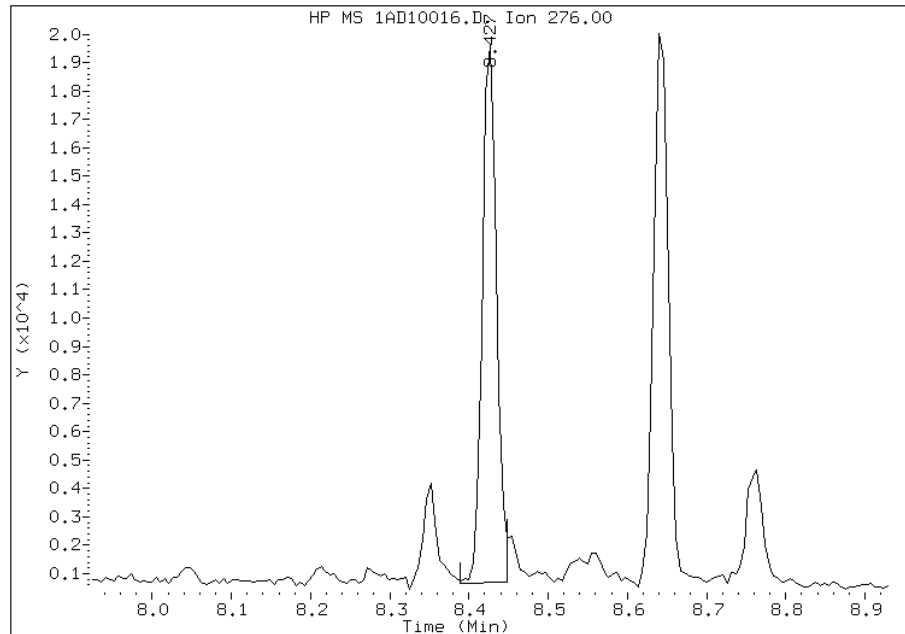
Processing Integration Results

RT: 8.43
Response: 24630
Amount: 1
Conc: 102



Manual Integration Results

RT: 8.43
Response: 23476
Amount: 1
Conc: 100



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>FM0128A-CS-SP</u>	Lab Sample ID: <u>680-88913-5</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10017.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 13:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>14.91(g)</u>	Date Analyzed: <u>04/10/2013 16:12</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>28.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	57	U	57	7.1
120-12-7	Anthracene	12	U	12	5.9
56-55-3	Benzo[a]anthracene	49		11	5.5
50-32-8	Benzo[a]pyrene	54		15	7.4
205-99-2	Benzo[b]fluoranthene	86		17	8.6
191-24-2	Benzo[g,h,i]perylene	49		28	6.2
207-08-9	Benzo[k]fluoranthene	26		11	5.1
218-01-9	Chrysene	62		13	6.4
53-70-3	Dibenz(a,h)anthracene	13	J	28	5.8
206-44-0	Fluoranthene	73		28	5.7
86-73-7	Fluorene	28	U	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	81		28	10
90-12-0	1-Methylnaphthalene	41	J	57	6.2
91-57-6	2-Methylnaphthalene	39	J	57	10
91-20-3	Naphthalene	51	J	57	6.2
85-01-8	Phenanthrene	67		11	5.5
129-00-0	Pyrene	70		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	56		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10017.D
Lab Smp Id: 680-88913-A-5-A Client Smp ID: FM0128A-CS-SP
Inj Date : 10-APR-2013 16:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88913-a-5-a
Misc Info : 680-88913-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10017.D
Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.910	Weight Extracted
M	28.947	% 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	FINAL
							(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8		136	2.588	2.584 (1.000)		1647842	40.0000	
* 6 Acenaphthene-d10		164	3.619	3.615 (1.000)		854672	40.0000	
* 10 Phenanthrene-d10		188	4.570	4.571 (1.000)		1362433	40.0000	
\$ 14 o-Terphenyl		230	4.869	4.870 (1.065)		162606	5.60464	529.0414
* 18 Chrysene-d12		240	6.588	6.585 (1.000)		1301682	40.0000	
* 23 Perylene-d12		264	7.673	7.664 (1.000)		1581379	40.0000	
2 Naphthalene		128	2.599	2.600 (1.004)		16582	0.54187	51.1492
3 2-Methylnaphthalene		141	3.005	3.001 (1.161)		8240	0.41057	38.7548
4 1-Methylnaphthalene		142	3.058	3.060 (1.182)		7289	0.43230	40.8066
11 Phenanthrene		178	4.580	4.582 (1.002)		27292	0.70750	66.7832
13 Carbazole		167	4.746	4.747 (1.039)		5178	0.16419	15.4980
15 Fluoranthene		202	5.445	5.447 (1.192)		44823	0.77493	73.1484
16 Pyrene		202	5.611	5.613 (0.852)		36998	0.73761	69.6255
17 Benzo(a)anthracene		228	6.578	6.574 (0.998)		22720	0.52326	49.3923

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
19 Chrysene	228	6.599	6.606	(1.002)	29233	0.66013	62.3117
20 Benzo(b)fluoranthene	252	7.395	7.391	(0.964)	43469	0.90655	85.5719(M)
21 Benzo(k)fluoranthene	252	7.411	7.413	(0.966)	14802	0.27794	26.2358(QM)
22 Benzo(a)pyrene	252	7.619	7.616	(0.993)	26121	0.57287	54.0748
24 Indeno(1,2,3-cd)pyrene	276	8.431	8.427	(1.099)	20991	0.85989	81.1678(M)
25 Dibenzo(a,h)anthracene	278	8.458	8.459	(1.102)	5686	0.14222	13.4249
26 Benzo(g,h,i)perylene	276	8.650	8.651	(1.127)	22297	0.51768	48.8654

QC Flag Legend

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

Data File: 1AD10017.D

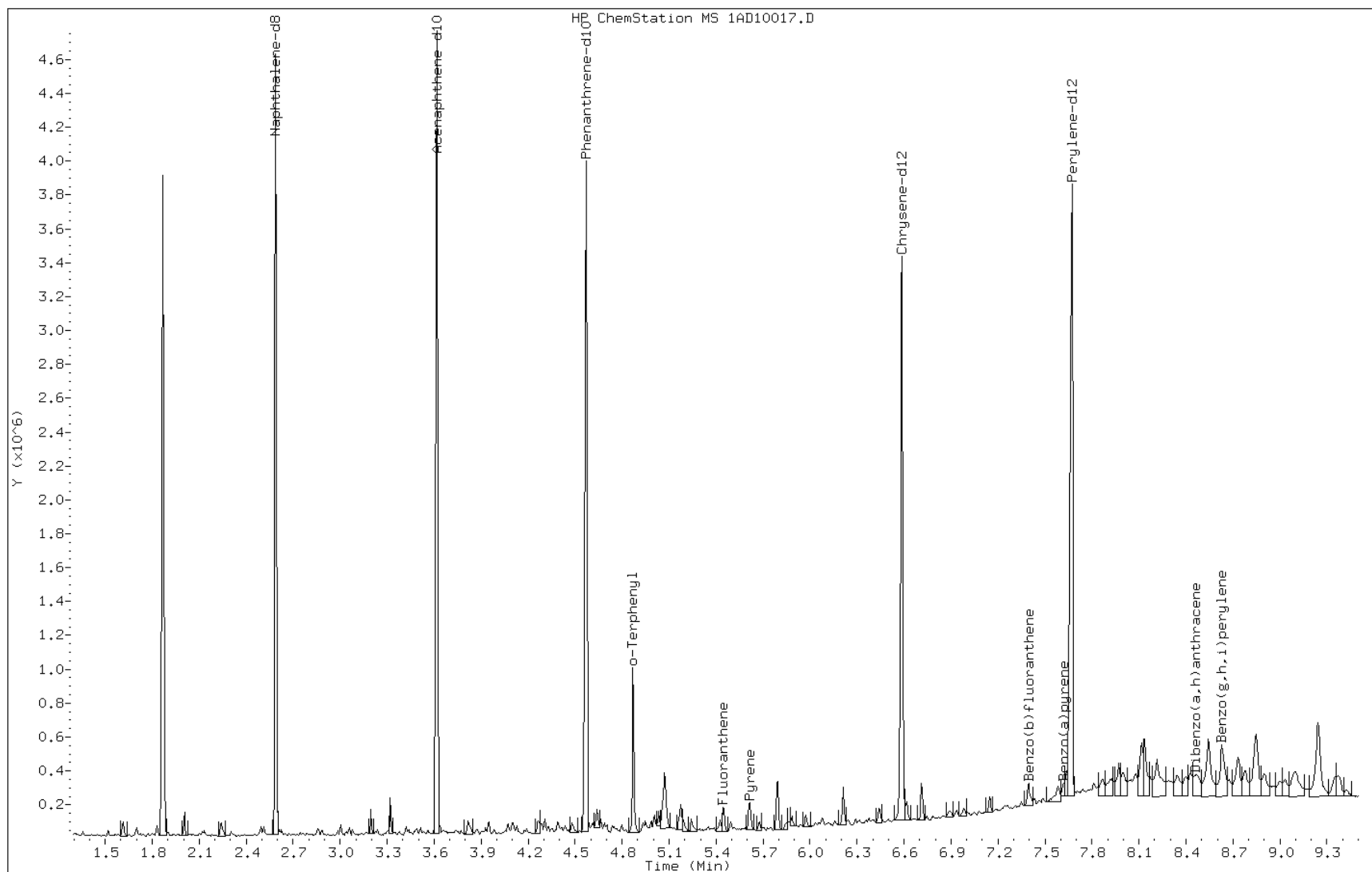
Date: 10-APR-2013 16:12

Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

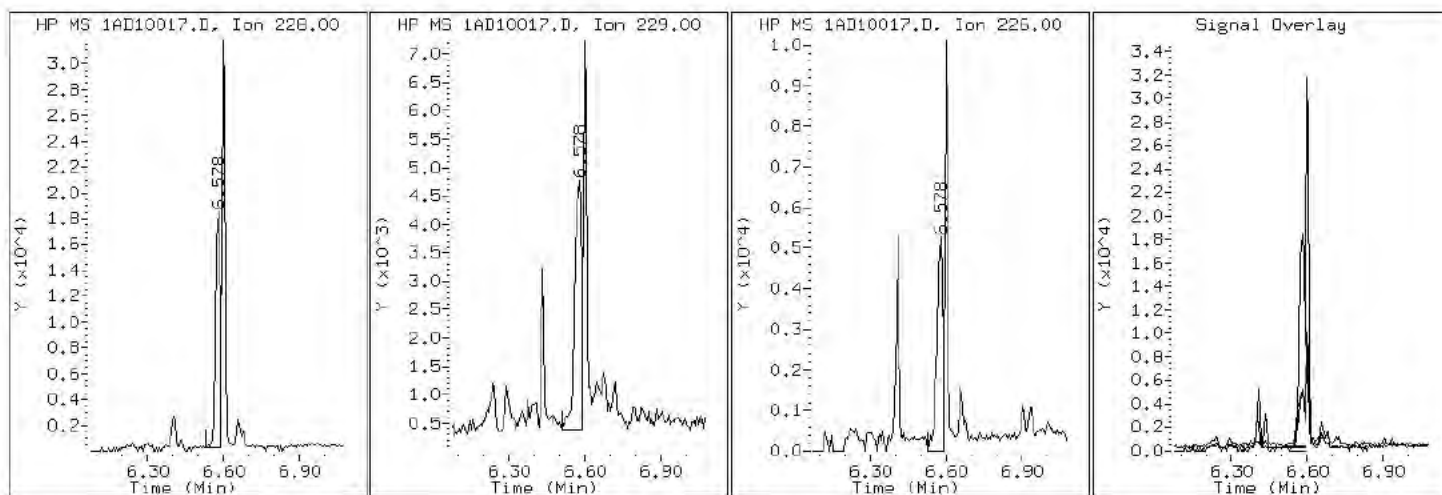
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

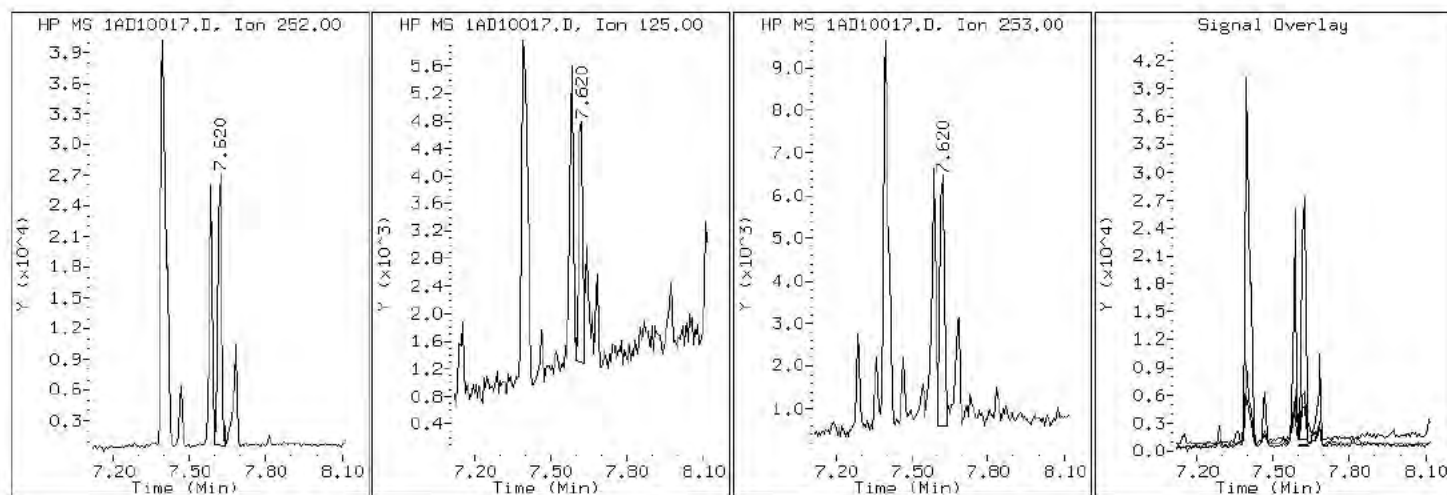
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

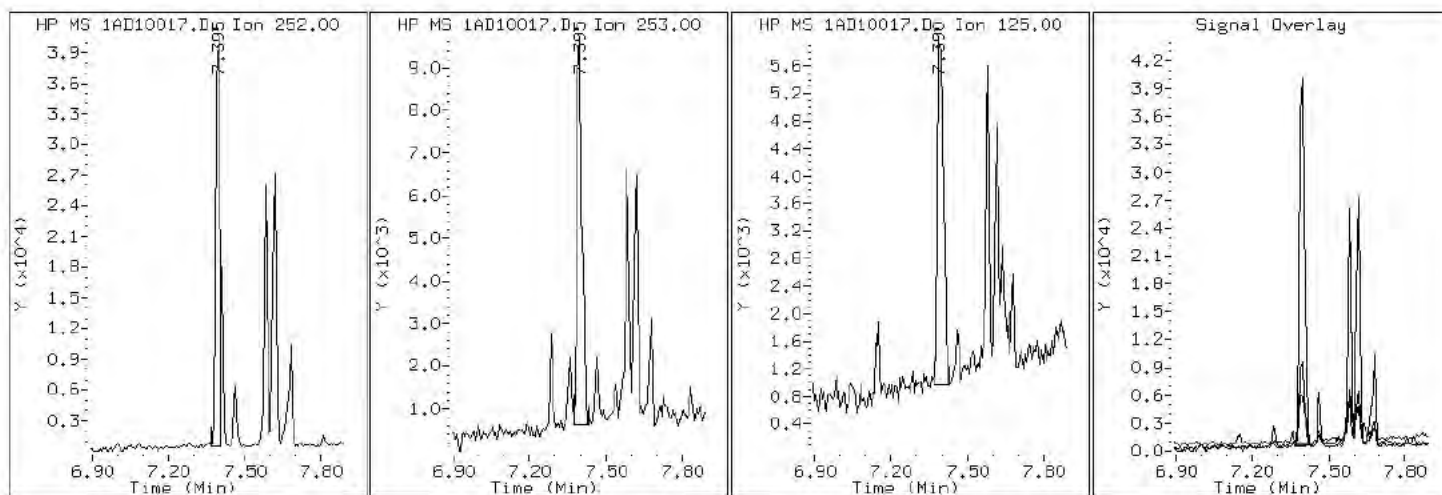
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

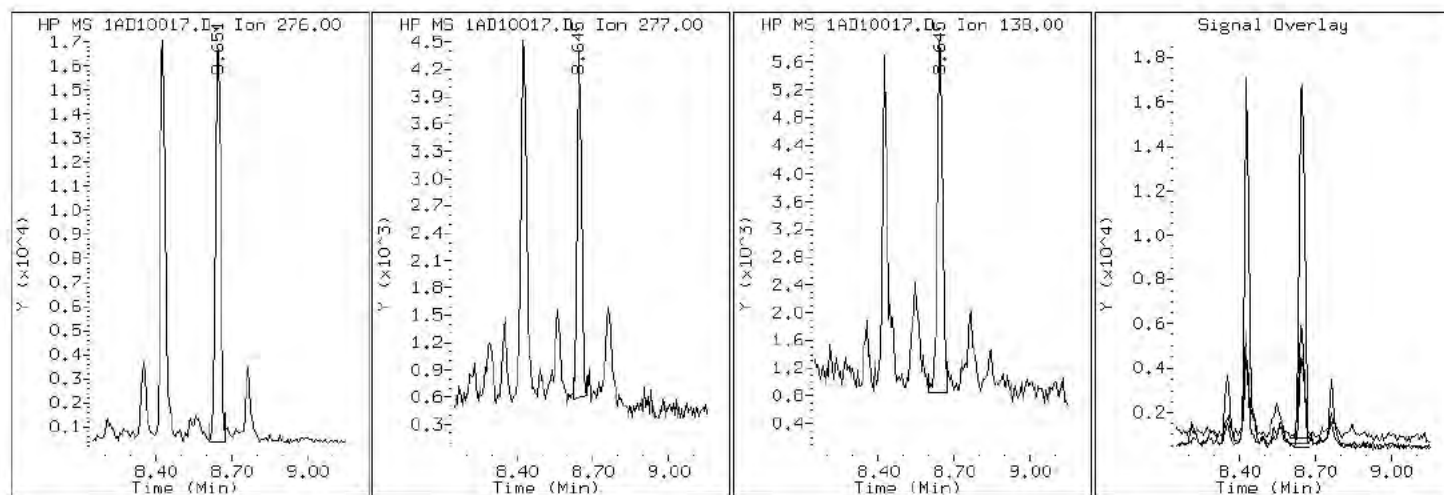
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

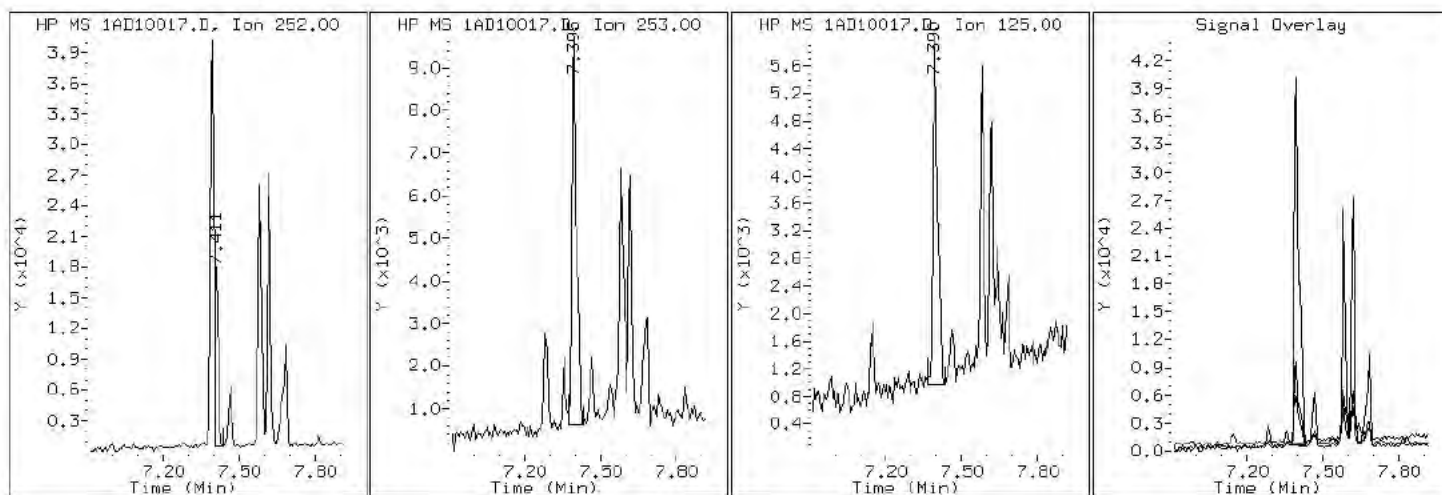
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

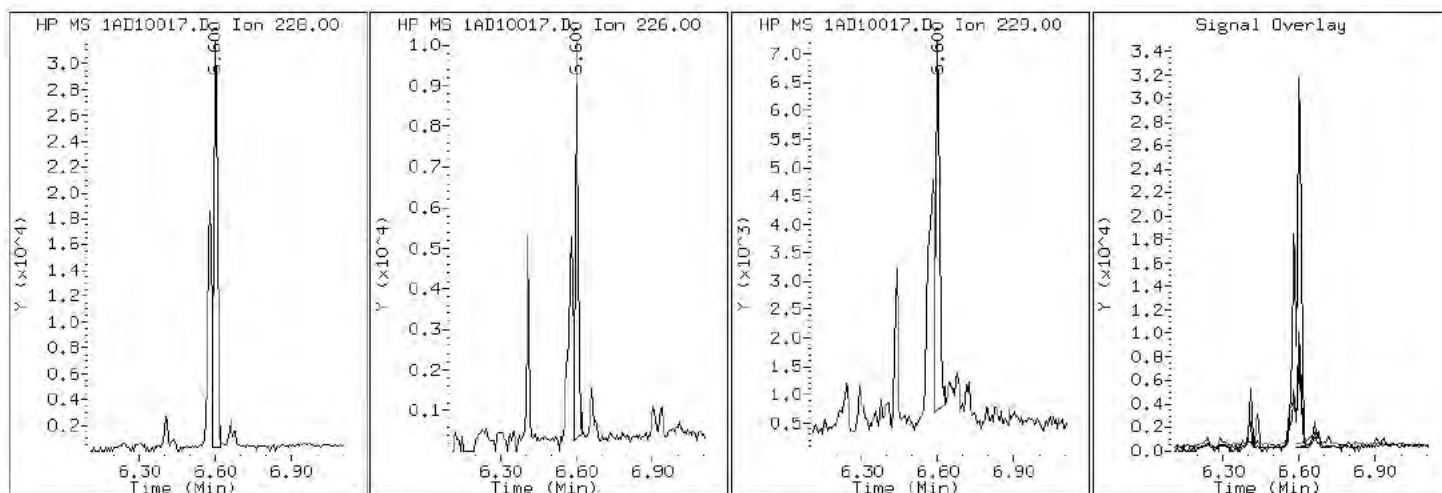
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

19 Chrysene



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

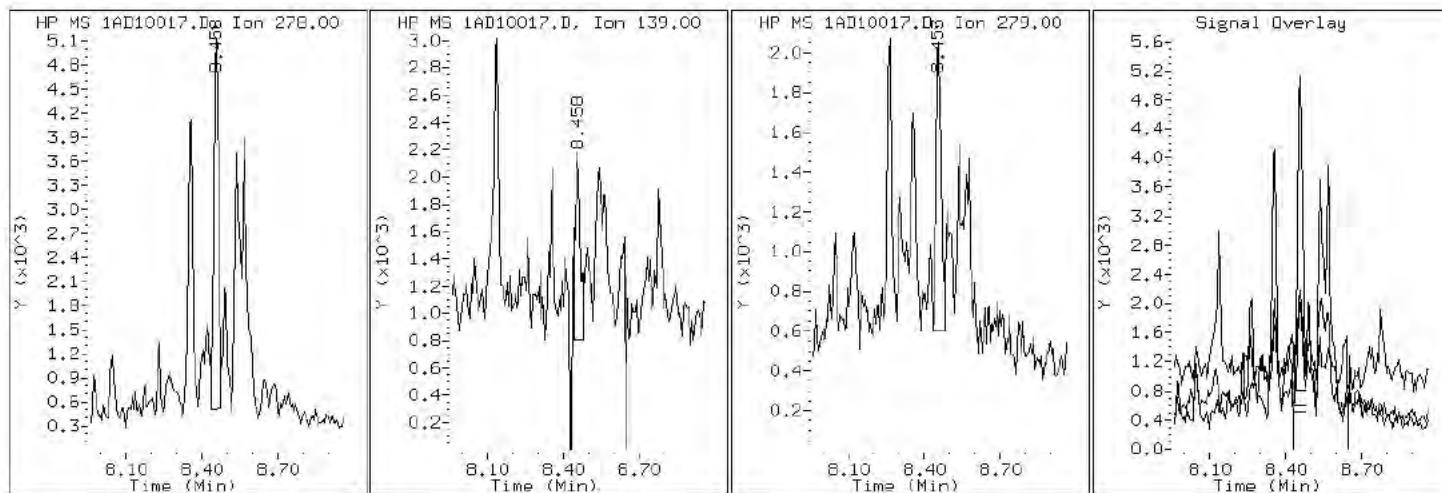
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

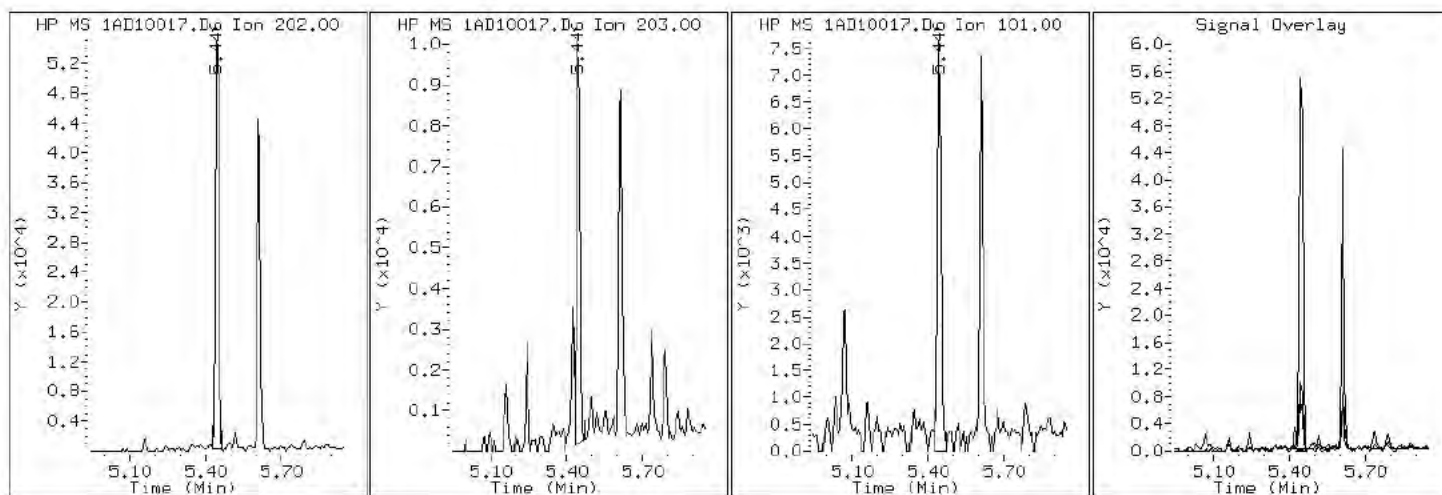
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

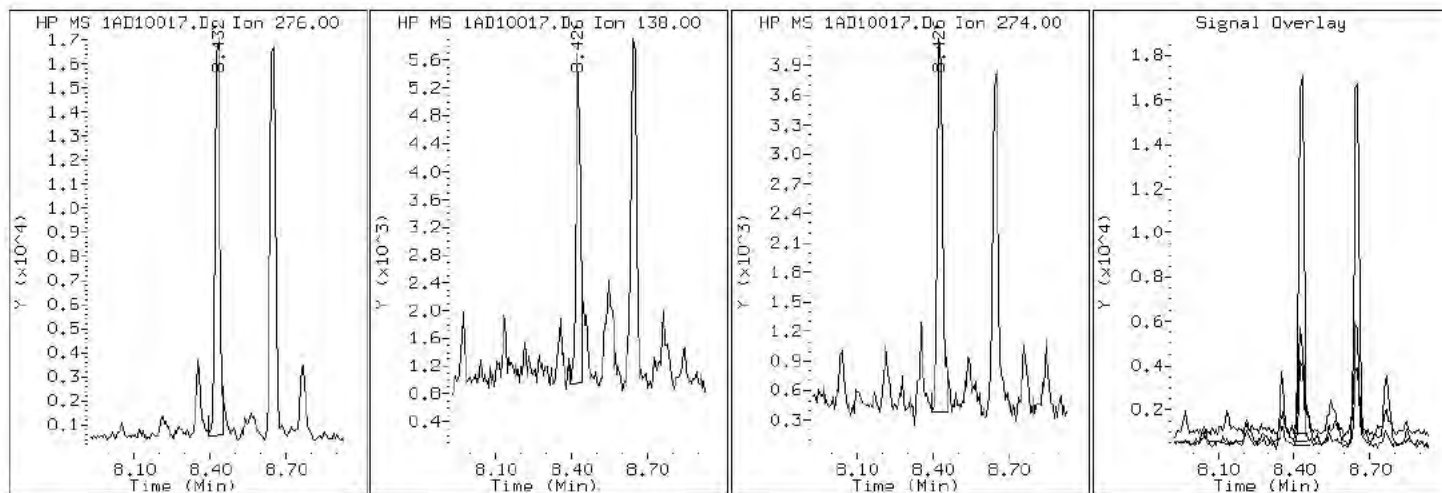
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

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



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

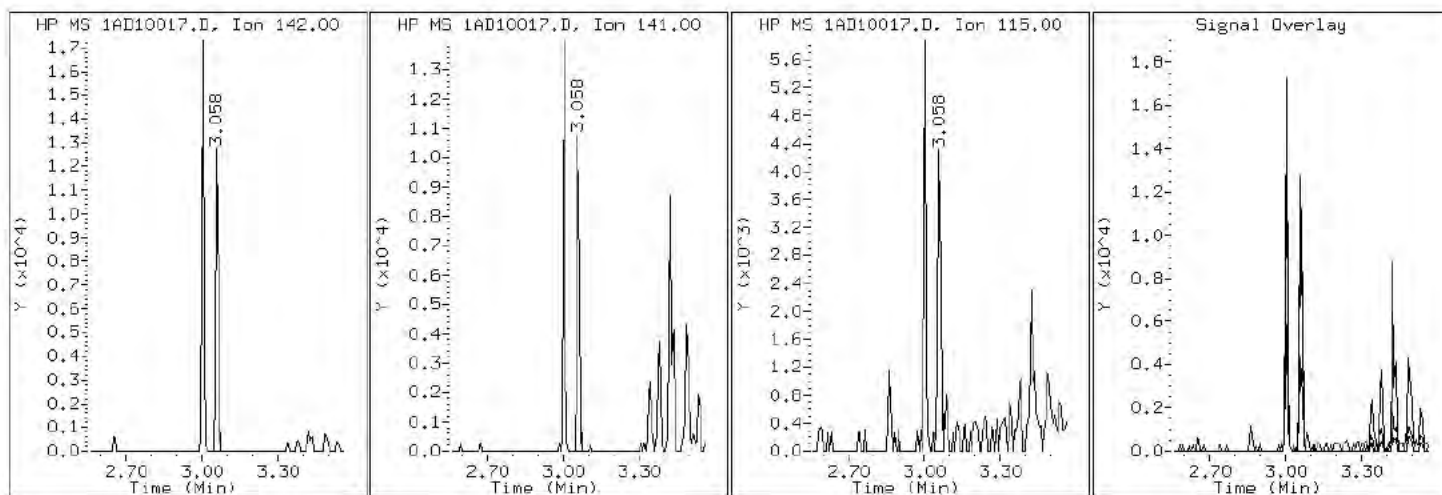
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

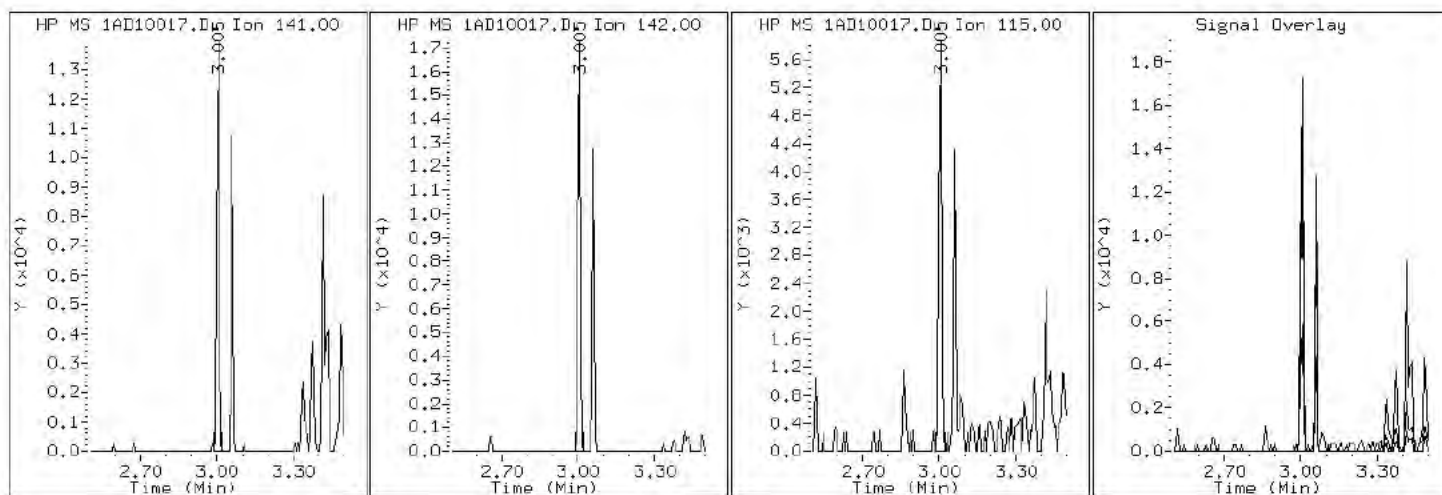
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

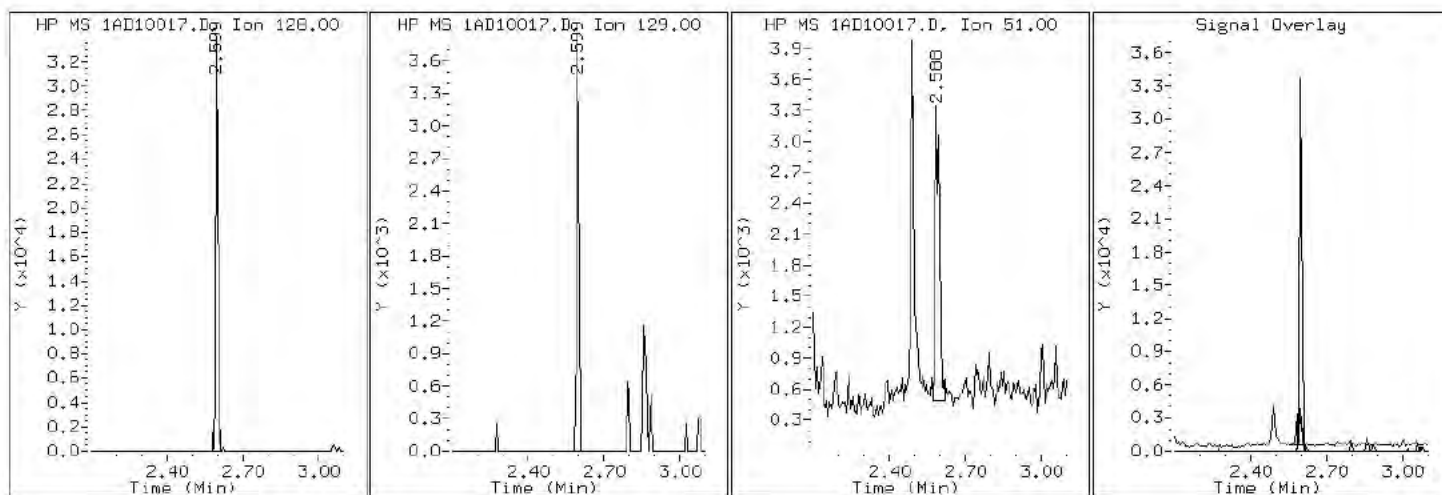
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

2 Naphthalene



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

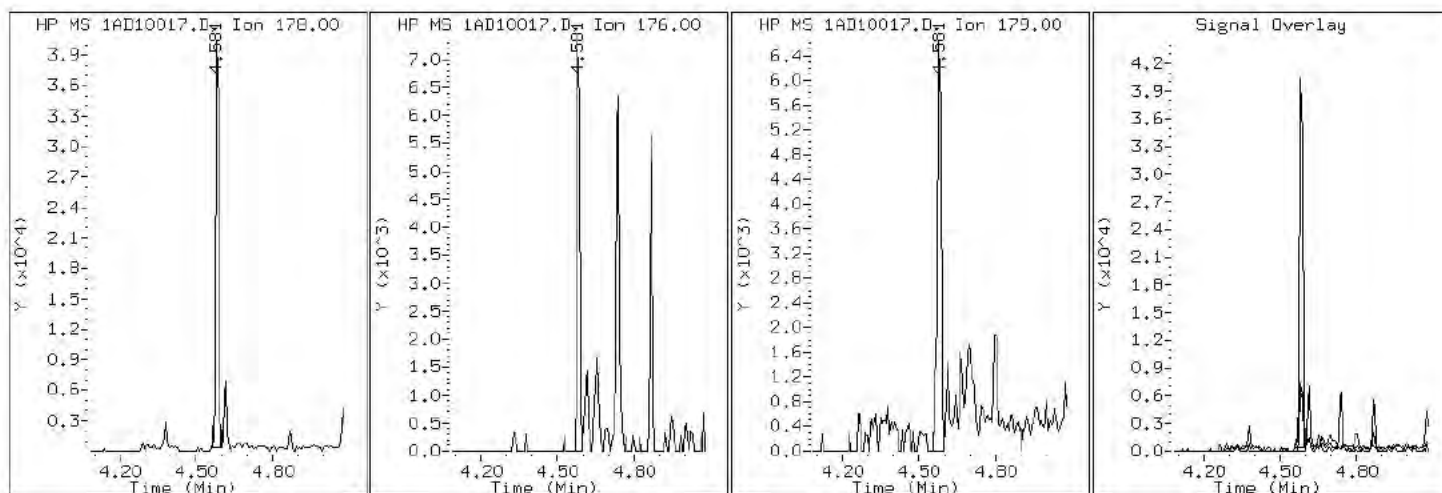
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10017.D

Date: 10-APR-2013 16:12

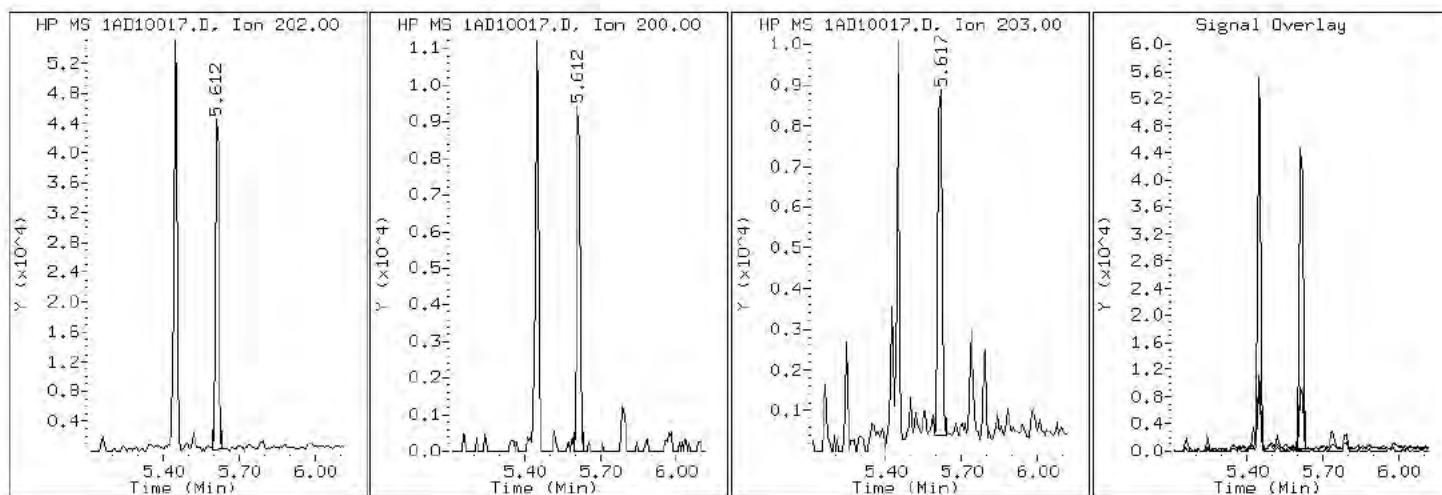
Client ID: FM0128A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-5-a

Operator: SCC

16 Pyrene

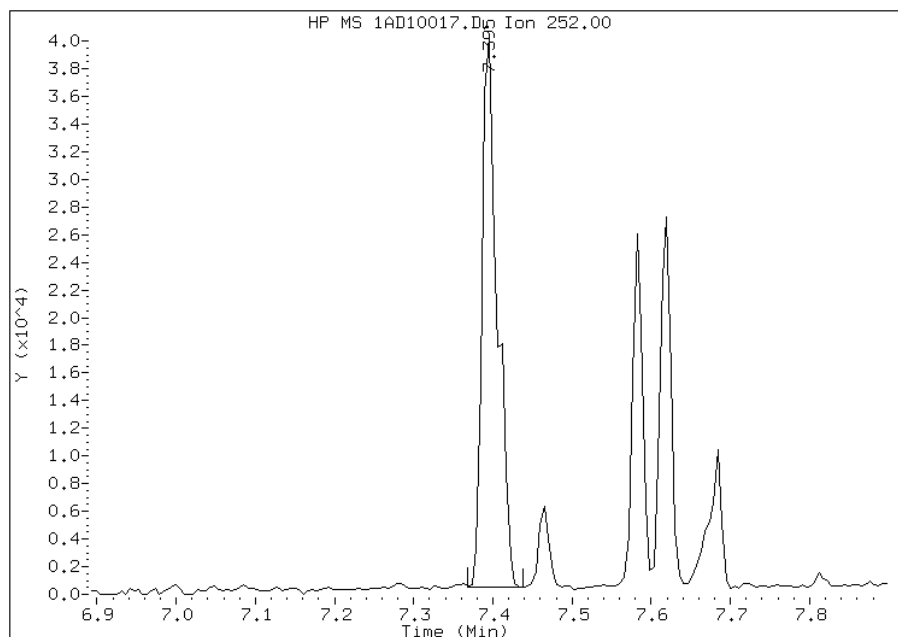


Manual Integration Report

Data File: 1AD10017.D
Inj. Date and Time: 10-APR-2013 16:12
Instrument ID: BSMA5973.i
Client ID: FM0128A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

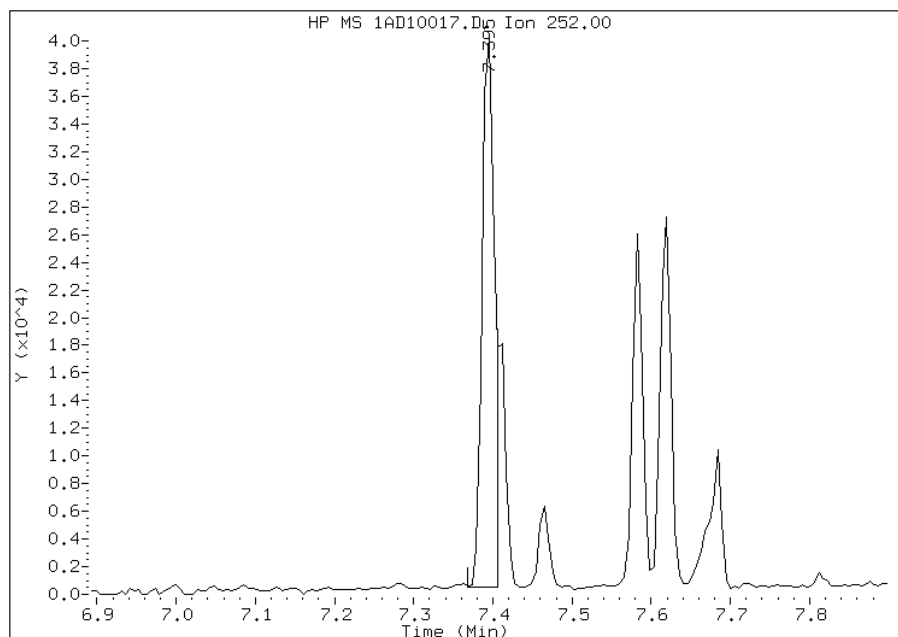
Processing Integration Results

RT: 7.40
Response: 52557
Amount: 1
Conc: 103



Manual Integration Results

RT: 7.40
Response: 43469
Amount: 1
Conc: 86



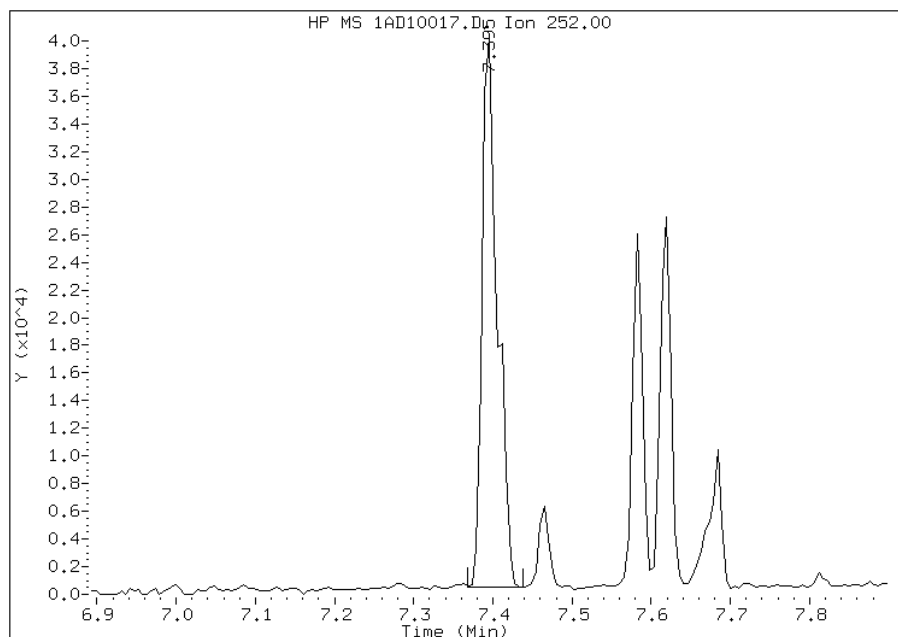
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:05
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10017.D
Inj. Date and Time: 10-APR-2013 16:12
Instrument ID: BSMA5973.i
Client ID: FM0128A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

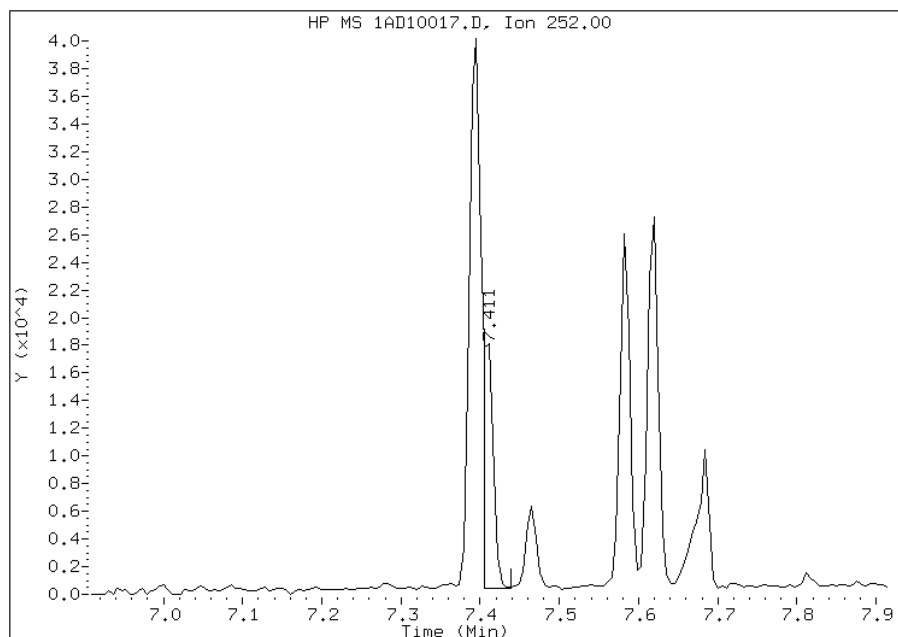
Processing Integration Results

RT: 7.40
Response: 52557
Amount: 1
Conc: 93



Manual Integration Results

RT: 7.41
Response: 14802
Amount: 0
Conc: 26



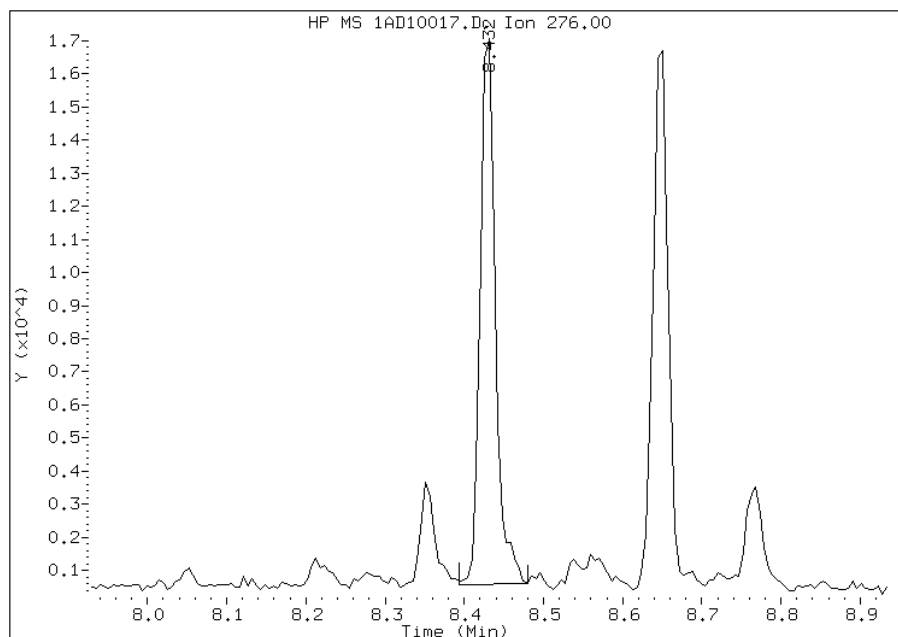
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10017.D
Inj. Date and Time: 10-APR-2013 16:12
Instrument ID: BSMA5973.i
Client ID: FM0128A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

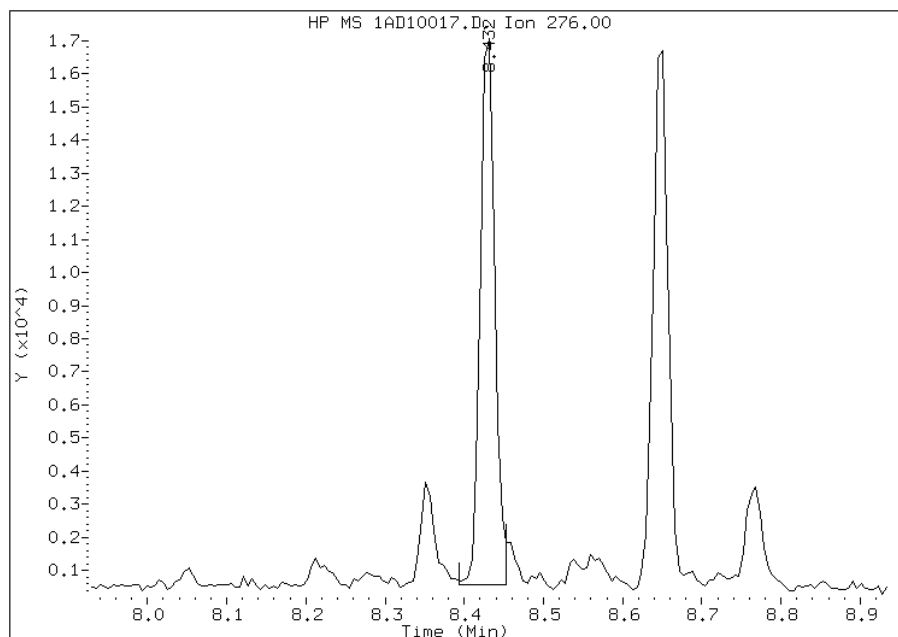
Processing Integration Results

RT: 8.43
Response: 21817
Amount: 1
Conc: 83



Manual Integration Results

RT: 8.43
Response: 20991
Amount: 1
Conc: 81



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>FM0128B-CS-SP</u>	Lab Sample ID: <u>680-88913-6</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10018.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 13:30</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>14.99(g)</u>	Date Analyzed: <u>04/10/2013 16:27</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>25.2</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	54	U	54	6.7
120-12-7	Anthracene	11	U	11	5.6
56-55-3	Benzo[a]anthracene	35		11	5.2
50-32-8	Benzo[a]pyrene	36		14	7.0
205-99-2	Benzo[b]fluoranthene	62		16	8.2
191-24-2	Benzo[g,h,i]perylene	35		27	5.9
207-08-9	Benzo[k]fluoranthene	20		11	4.8
218-01-9	Chrysene	53		12	6.0
53-70-3	Dibenz(a,h)anthracene	9.5	J	27	5.5
206-44-0	Fluoranthene	48		27	5.4
86-73-7	Fluorene	27	U	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	66		27	9.5
90-12-0	1-Methylnaphthalene	40	J	54	5.9
91-57-6	2-Methylnaphthalene	39	J	54	9.5
91-20-3	Naphthalene	51	J	54	5.9
85-01-8	Phenanthrene	60		11	5.2
129-00-0	Pyrene	47		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\1A041013.b\1AD10018.D
Lab Smp Id: 680-88913-A-6-A Client Smp ID: FM0128B-CS-SP
Inj Date : 10-APR-2013 16:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88913-a-6-a
Misc Info : 680-88913-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1A-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{\text{Vi}} * \frac{\text{Vt}}{\text{Ws}} * \frac{100}{(100 - \text{M})} * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	25.216	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.588	2.584	(1.000)		1607446	40.0000	
* 6 Acenaphthene-d10	164		3.619	3.615	(1.000)		847441	40.0000	
* 10 Phenanthrene-d10	188		4.570	4.571	(1.000)		1344503	40.0000	
\$ 14 o-Terphenyl	230		4.869	4.870	(1.065)		131491	4.49858	401.2934
* 18 Chrysene-d12	240		6.589	6.585	(1.000)		1237563	40.0000	
* 23 Perylene-d12	264		7.673	7.664	(1.000)		1535615	40.0000	
2 Naphthalene	128		2.599	2.600	(1.004)		18374	0.57236	51.0572
3 2-Methylnaphthalene	141		3.005	3.001	(1.161)		9119	0.43756	39.0322
4 1-Methylnaphthalene	142		3.058	3.060	(1.182)		7831	0.44664	39.8426
11 Phenanthrene	178		4.581	4.582	(1.002)		24842	0.67555	60.2622
13 Carbazole	167		4.746	4.747	(1.039)		4090	0.14509	12.9424
15 Fluoranthene	202		5.446	5.447	(1.192)		29804	0.54206	48.3539
16 Pyrene	202		5.612	5.613	(0.852)		24968	0.52356	46.7042
17 Benzo(a)anthracene	228		6.578	6.574	(0.998)		16290	0.39461	35.2009

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
19 Chrysene	228	6.600	6.606	(1.002)	24894	0.59127	52.7440
20 Benzo(b)fluoranthene	252	7.395	7.391	(0.964)	32464	0.69721	62.1945(M)
21 Benzo(k)fluoranthene	252	7.406	7.413	(0.965)	11829	0.22874	20.4042(QM)
22 Benzo(a)pyrene	252	7.620	7.616	(0.993)	17845	0.40303	35.9517
24 Indeno(1,2,3-cd)pyrene	276	8.432	8.427	(1.099)	15195	0.74287	66.2674
25 Dibenzo(a,h)anthracene	278	8.458	8.459	(1.102)	4113	0.10594	9.4506
26 Benzo(g,h,i)perylene	276	8.651	8.651	(1.127)	16477	0.39395	35.1424

QC Flag Legend

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

Data File: 1AD10018.D

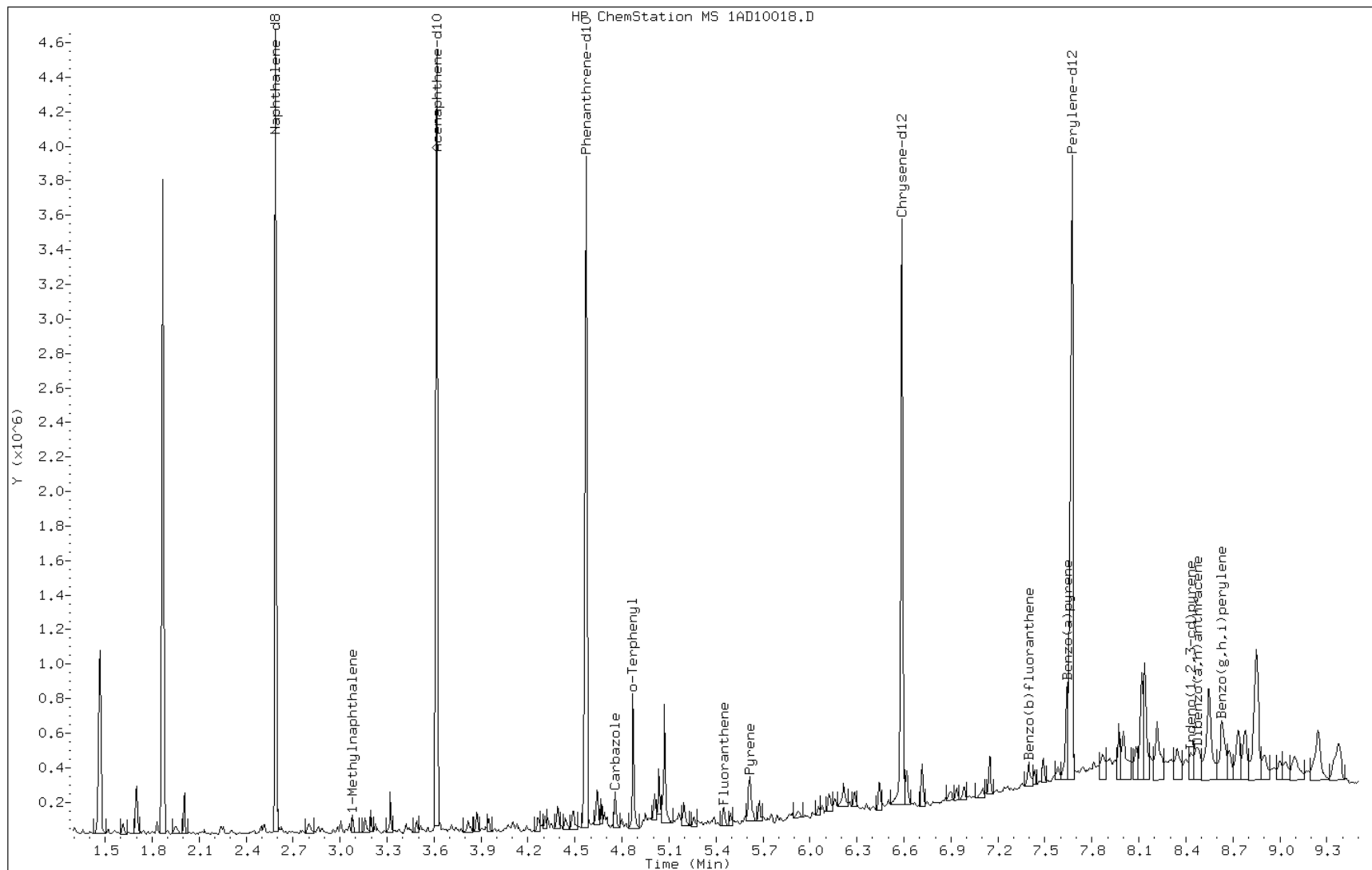
Date: 10-APR-2013 16:27

Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

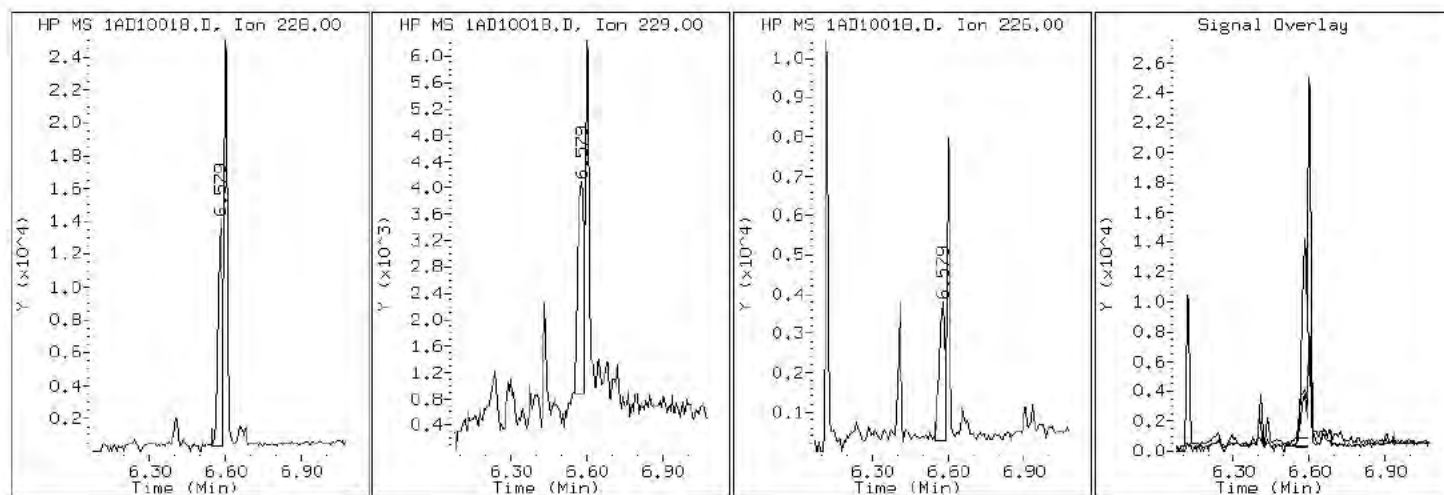
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

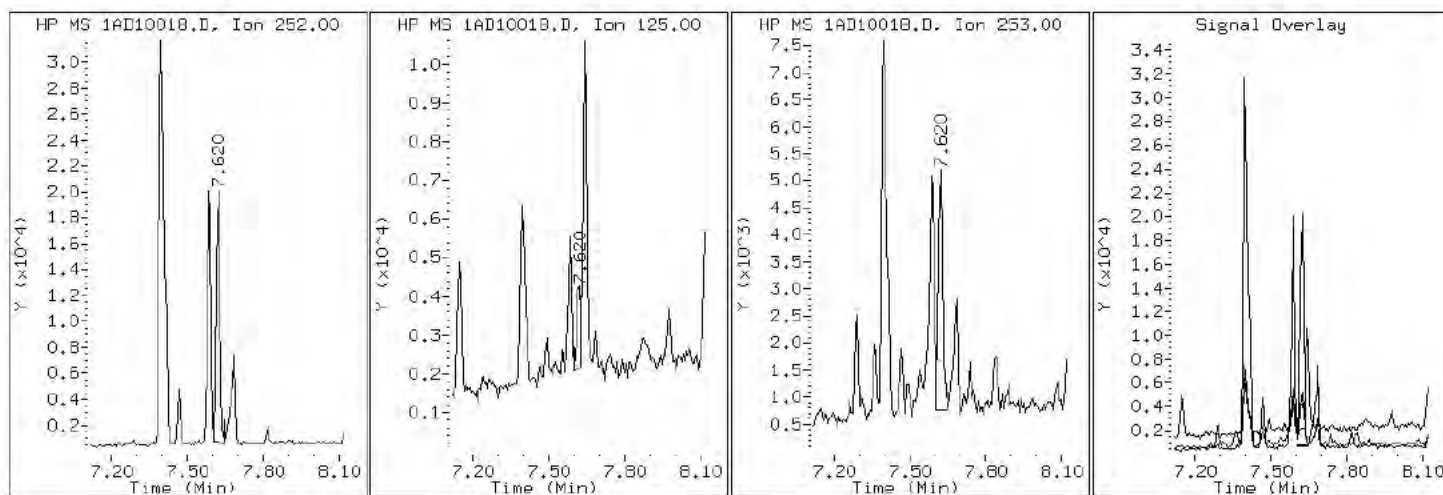
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

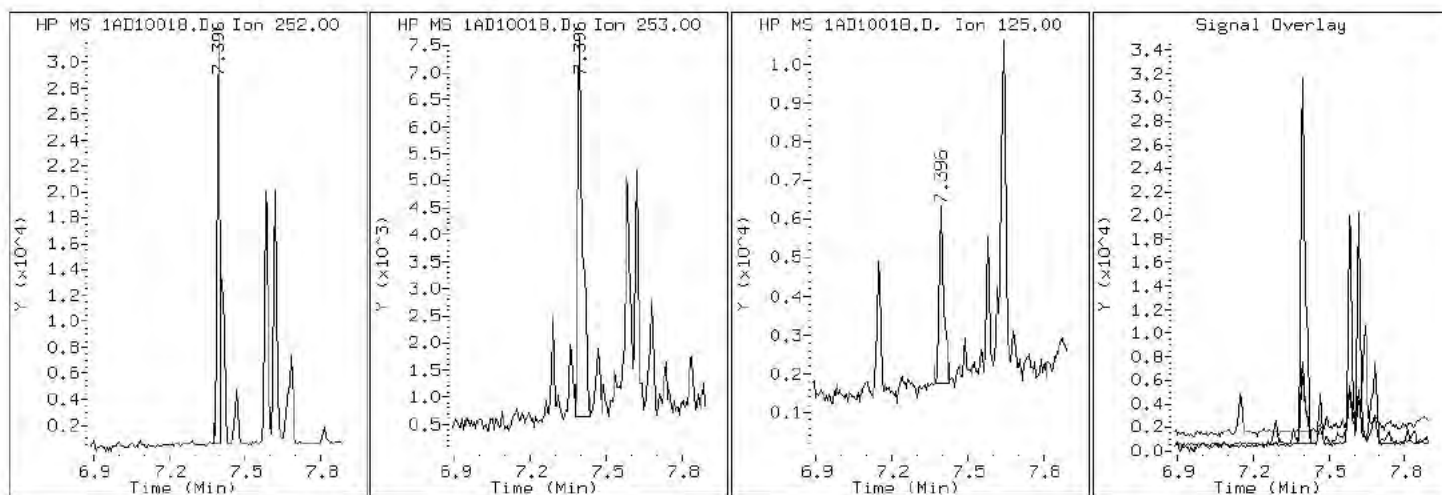
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

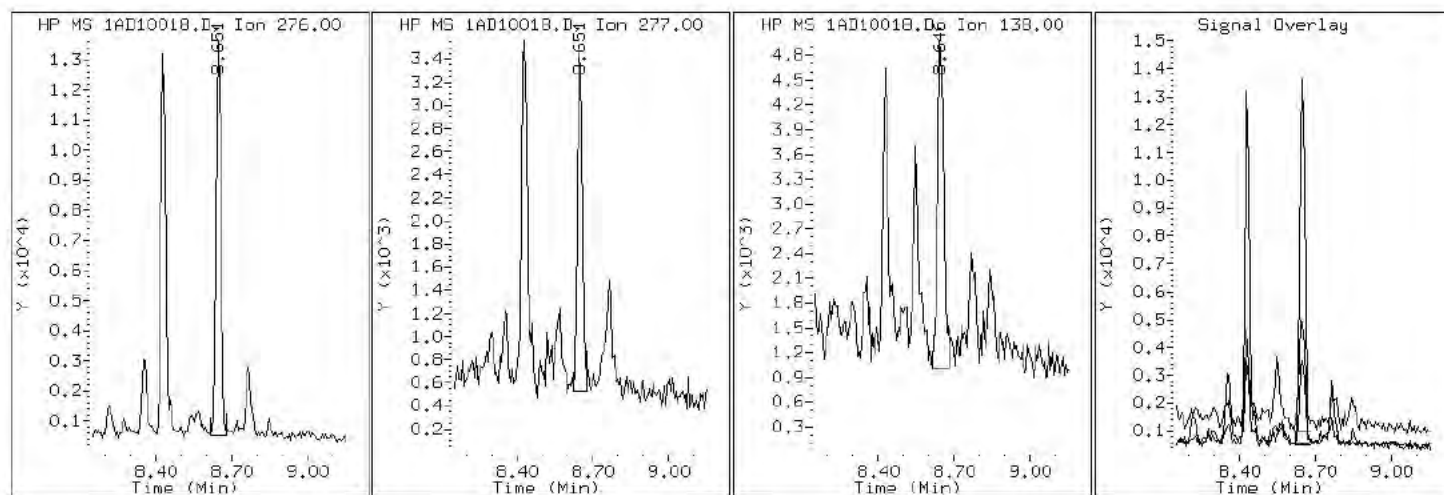
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

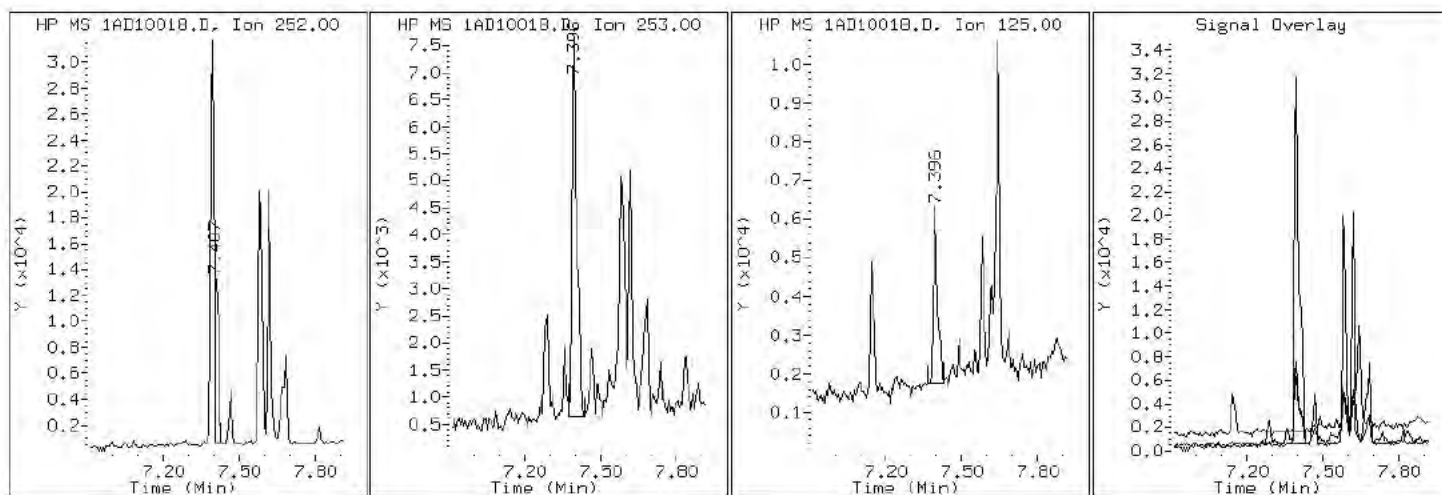
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

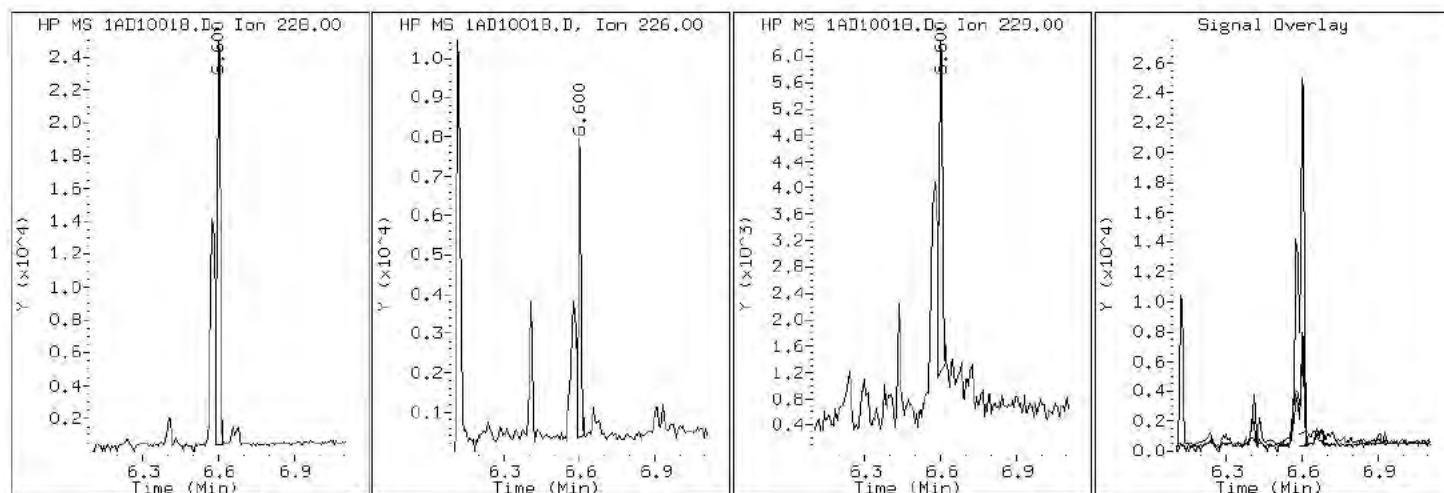
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

19 Chrysene



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

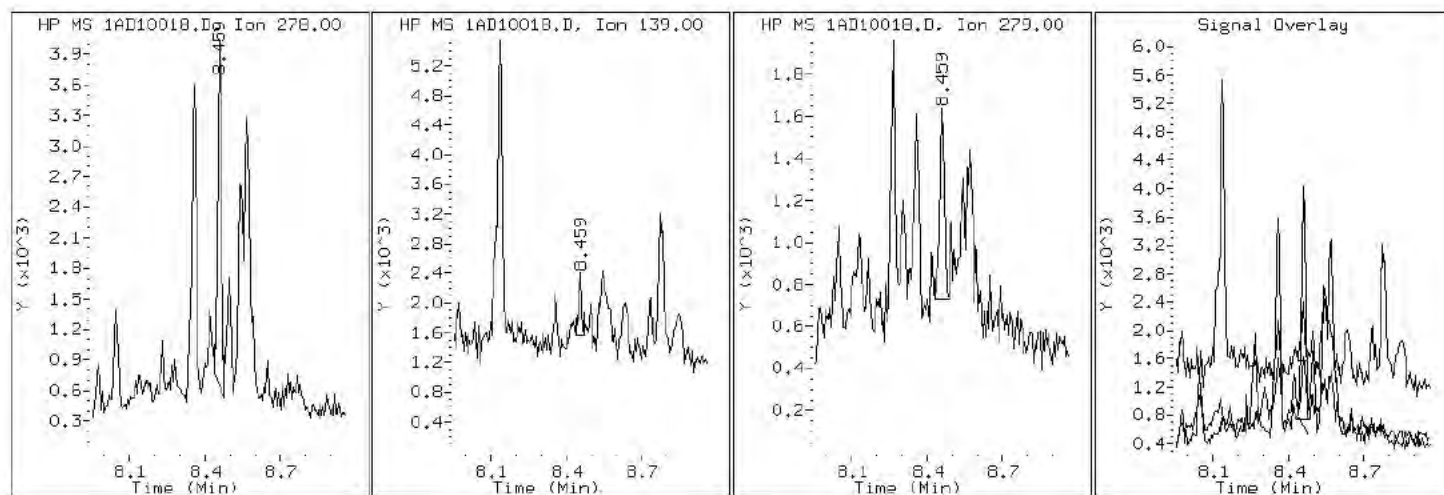
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

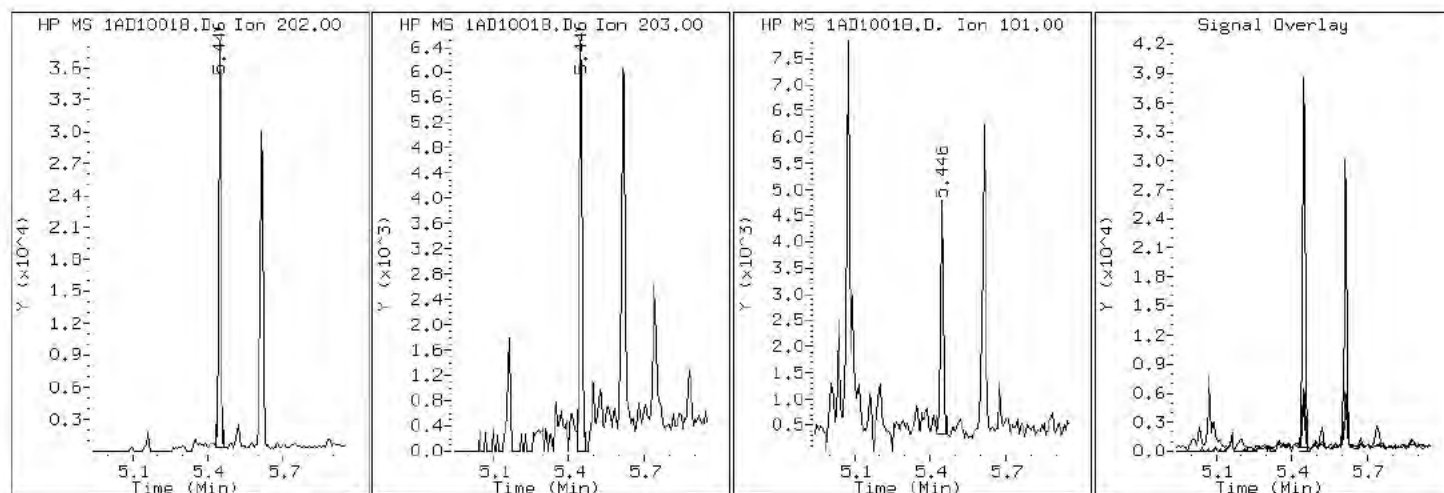
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

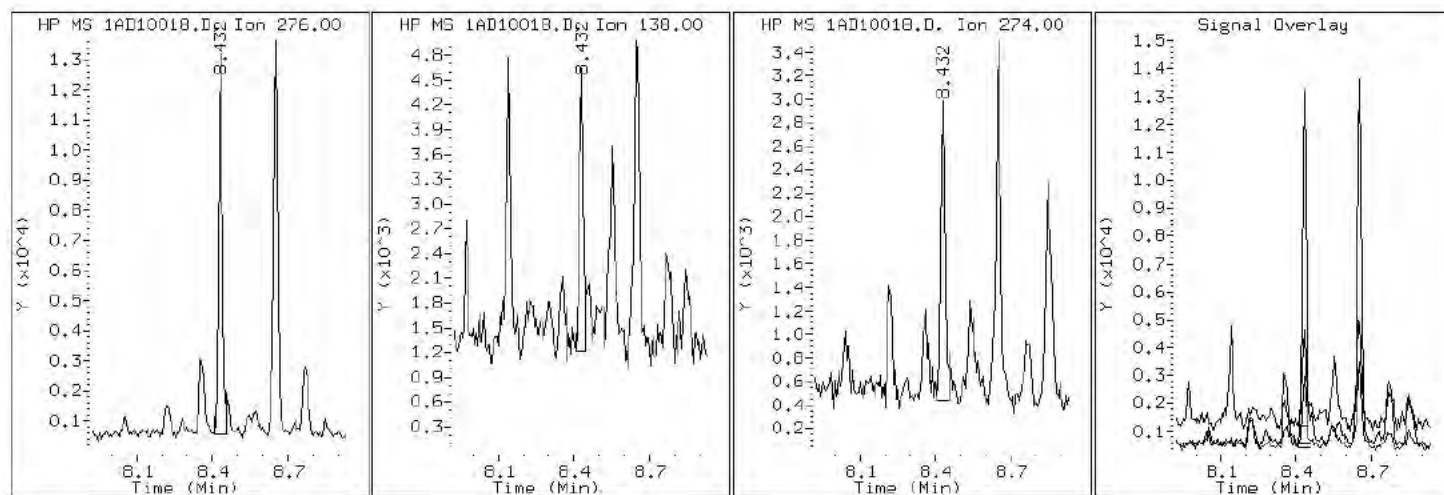
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

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



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

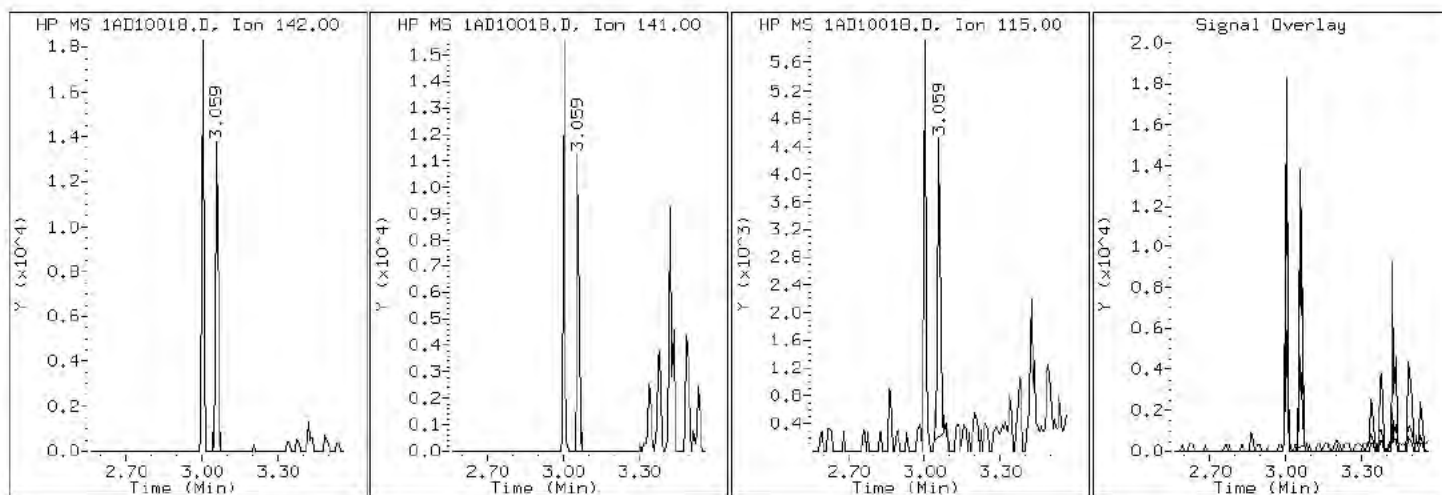
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

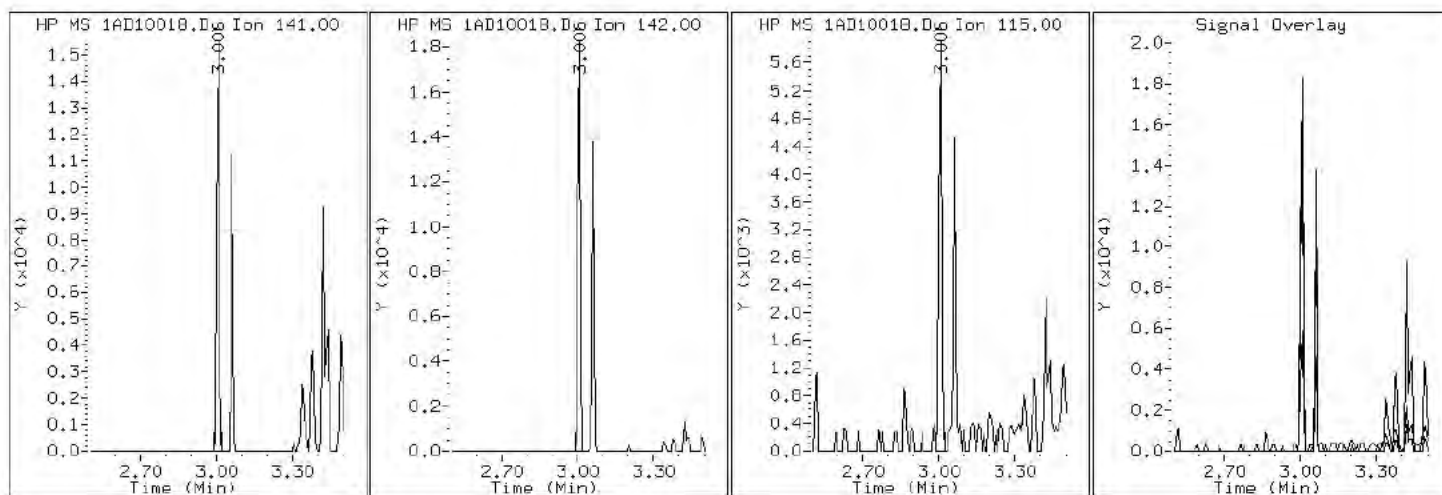
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

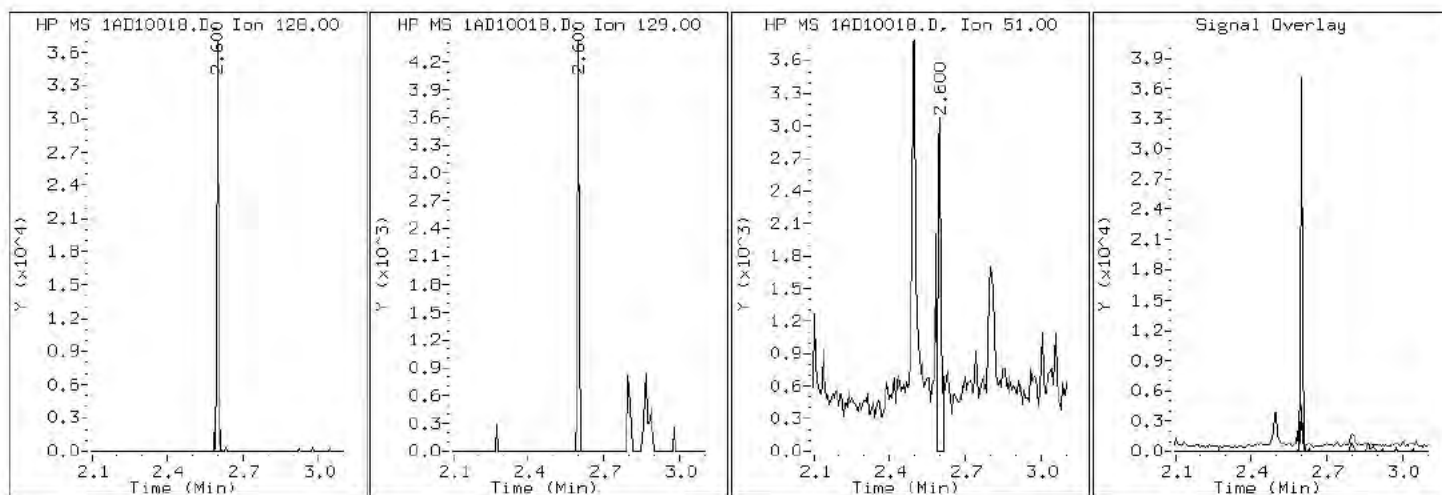
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

2 Naphthalene



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

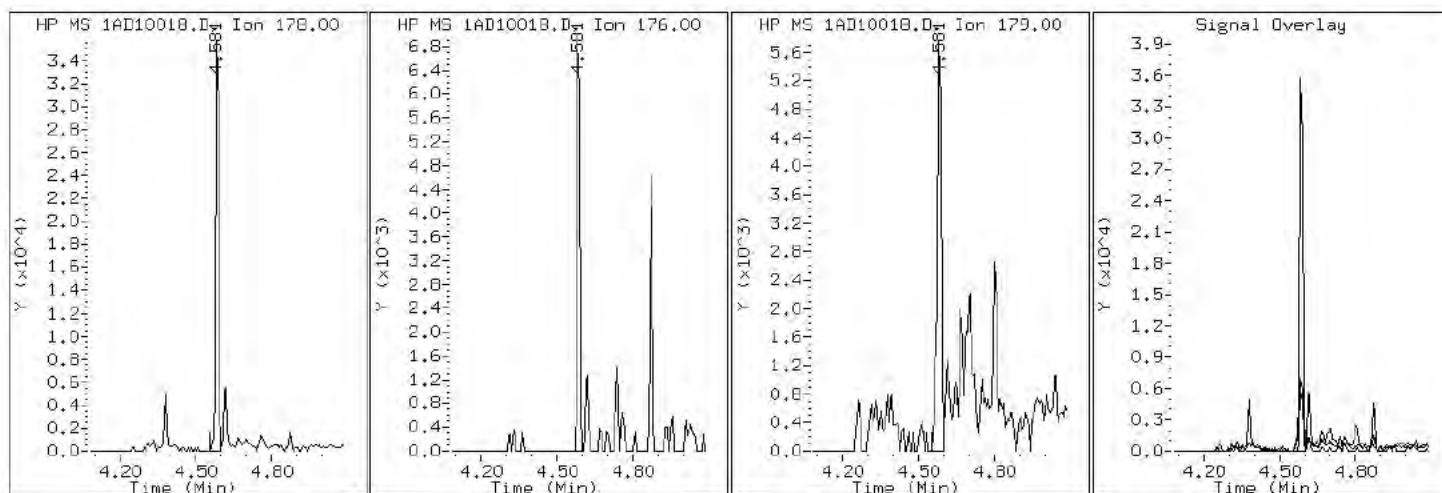
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10018.D

Date: 10-APR-2013 16:27

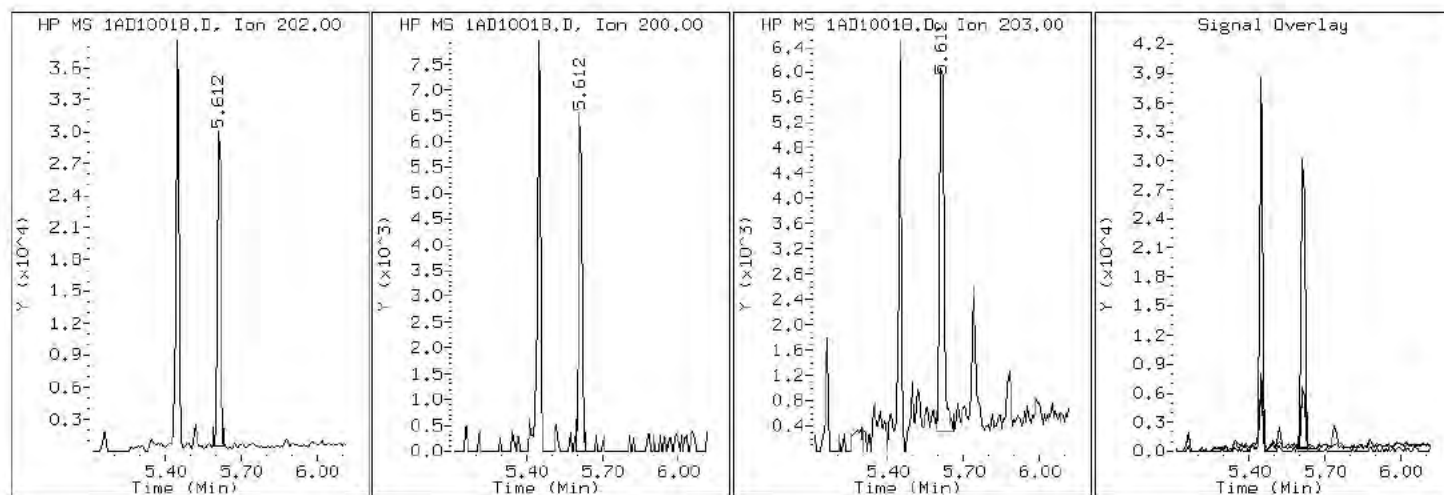
Client ID: FM0128B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88913-a-6-a

Operator: SCC

16 Pyrene

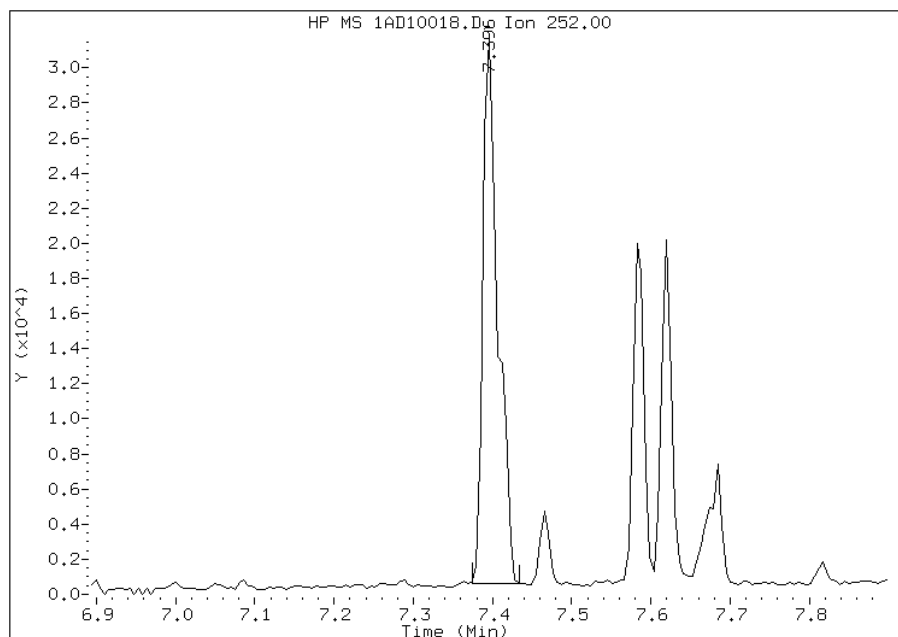


Manual Integration Report

Data File: 1AD10018.D
Inj. Date and Time: 10-APR-2013 16:27
Instrument ID: BSMA5973.i
Client ID: FM0128B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

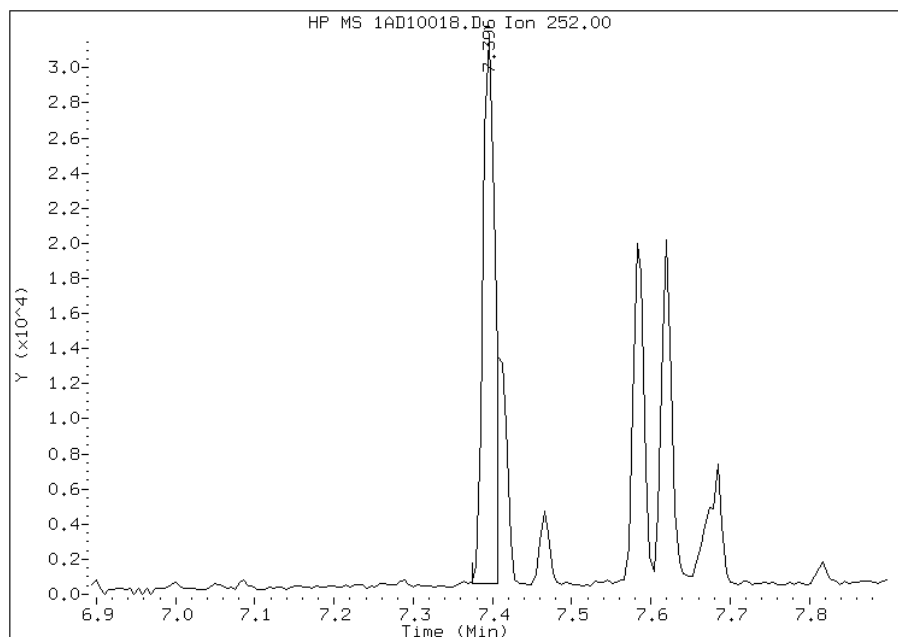
Processing Integration Results

RT: 7.40
Response: 40253
Amount: 1
Conc: 77



Manual Integration Results

RT: 7.40
Response: 32464
Amount: 1
Conc: 62



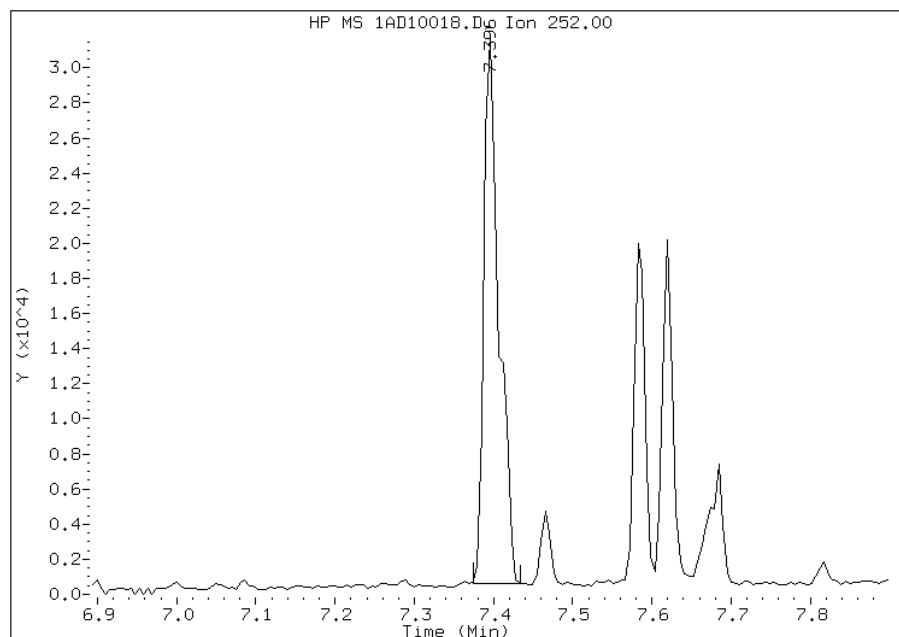
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:07
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10018.D
Inj. Date and Time: 10-APR-2013 16:27
Instrument ID: BSMA5973.i
Client ID: FM0128B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

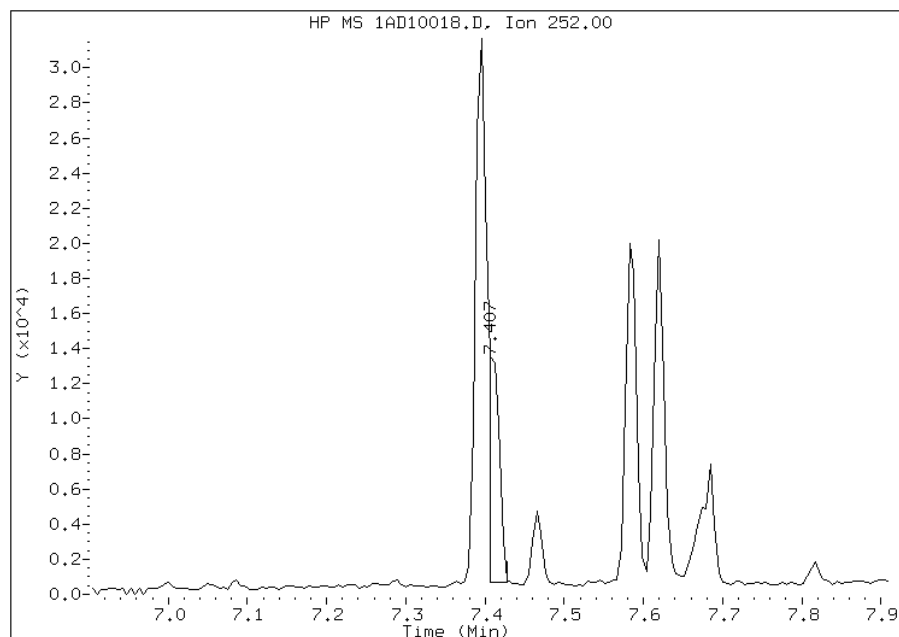
Processing Integration Results

RT: 7.40
Response: 40253
Amount: 1
Conc: 69



Manual Integration Results

RT: 7.41
Response: 11829
Amount: 0
Conc: 20



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:07
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>HP0219A-CS</u>	Lab Sample ID: <u>680-88913-7</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10019.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 15:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.33(g)</u>	Date Analyzed: <u>04/10/2013 16:42</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>38.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	32
208-96-8	Acenaphthylene	63	U	63	7.9
120-12-7	Anthracene	13	U	13	6.6
56-55-3	Benzo[a]anthracene	25		13	6.2
50-32-8	Benzo[a]pyrene	19		16	8.2
205-99-2	Benzo[b]fluoranthene	35		19	9.6
191-24-2	Benzo[g,h,i]perylene	19	J	32	6.9
207-08-9	Benzo[k]fluoranthene	8.4	J	13	5.7
218-01-9	Chrysene	26		14	7.1
53-70-3	Dibenz(a,h)anthracene	32	U	32	6.5
206-44-0	Fluoranthene	29	J	32	6.3
86-73-7	Fluorene	32	U	32	6.5
193-39-5	Indeno[1,2,3-cd]pyrene	32	U	32	11
90-12-0	1-Methylnaphthalene	63	U	63	6.9
91-57-6	2-Methylnaphthalene	37	J	63	11
91-20-3	Naphthalene	56	J	63	6.9
85-01-8	Phenanthrene	50		13	6.2
129-00-0	Pyrene	25	J	32	5.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10019.D
Lab Smp Id: 680-88913-A-7-A Client Smp ID: HP0219A-CS
Inj Date : 10-APR-2013 16:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88913-a-7-a
Misc Info : 680-88913-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1A-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.330	Weight Extracted
M	38.048	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		2.591	2.584	(1.000)		1666449	40.0000	
* 6 Acenaphthene-d10	164		3.616	3.615	(1.000)		919901	40.0000	
* 10 Phenanthrene-d10	188		4.572	4.571	(1.000)		1461316	40.0000	
\$ 14 o-Terphenyl	230		4.872	4.870	(1.065)		159850	5.08693	535.6198
* 18 Chrysene-d12	240		6.586	6.585	(1.000)		1363928	40.0000	
* 23 Perylene-d12	264		7.676	7.664	(1.000)		1603722	40.0000	
2 Naphthalene	128		2.602	2.600	(1.004)		15725	0.52794	55.5883
3 2-Methylnaphthalene	141		3.002	3.001	(1.159)		5951	0.35341	37.2122
11 Phenanthrene	178		4.583	4.582	(1.002)		12320	0.47186	49.6838
13 Carbazole	167		4.749	4.747	(1.039)		2466	0.11103	11.6910(Q)
15 Fluoranthene	202		5.448	5.447	(1.192)		14376	0.27732	29.1996
16 Pyrene	202		5.614	5.613	(0.852)		12681	0.24128	25.4048
17 Benzo(a)anthracene	228		6.581	6.574	(0.999)		10767	0.23666	24.9182
19 Chrysene	228		6.602	6.606	(1.002)		11257	0.24260	25.5441

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
20 Benzo(b)fluoranthene	252	7.392	7.391	(0.963)	16113	0.33135	34.8894(M)
21 Benzo(k)fluoranthene	252	7.409	7.413	(0.965)	4286	0.07936	8.3558(QM)
22 Benzo(a)pyrene	252	7.622	7.616	(0.993)	8215	0.17765	18.7058
26 Benzo(g,h,i)perylene	276	8.653	8.651	(1.127)	7709	0.17649	18.5831

QC Flag Legend

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

Data File: 1AD10019.D

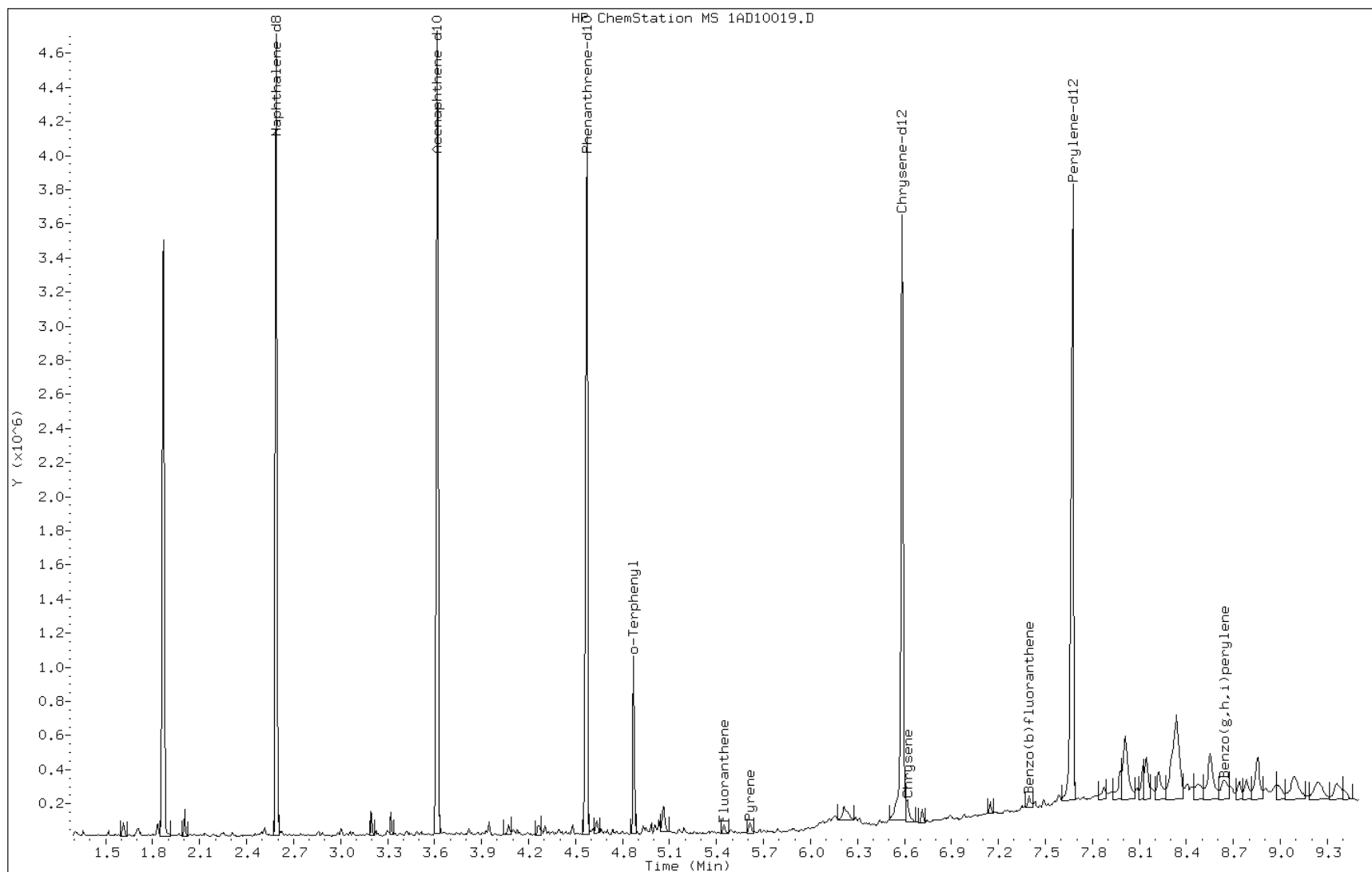
Date: 10-APR-2013 16:42

Client ID: HP0219A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-7-a

Operator: SCC



Data File: 1AD10019.D

Date: 10-APR-2013 16:42

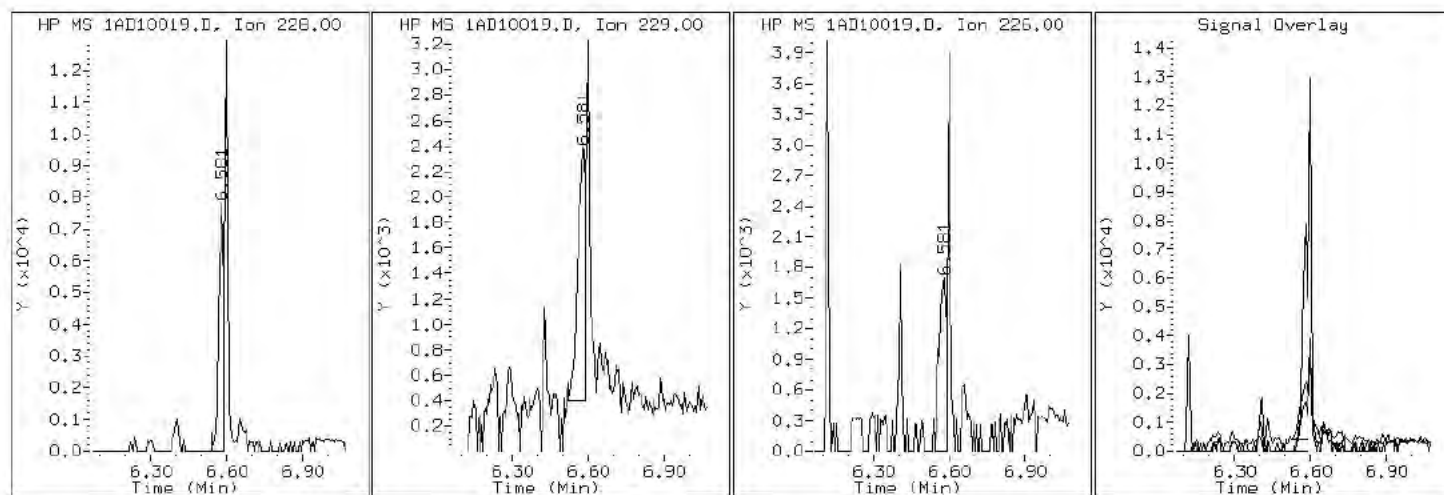
Client ID: HP0219A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-7-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10019.D

Date: 10-APR-2013 16:42

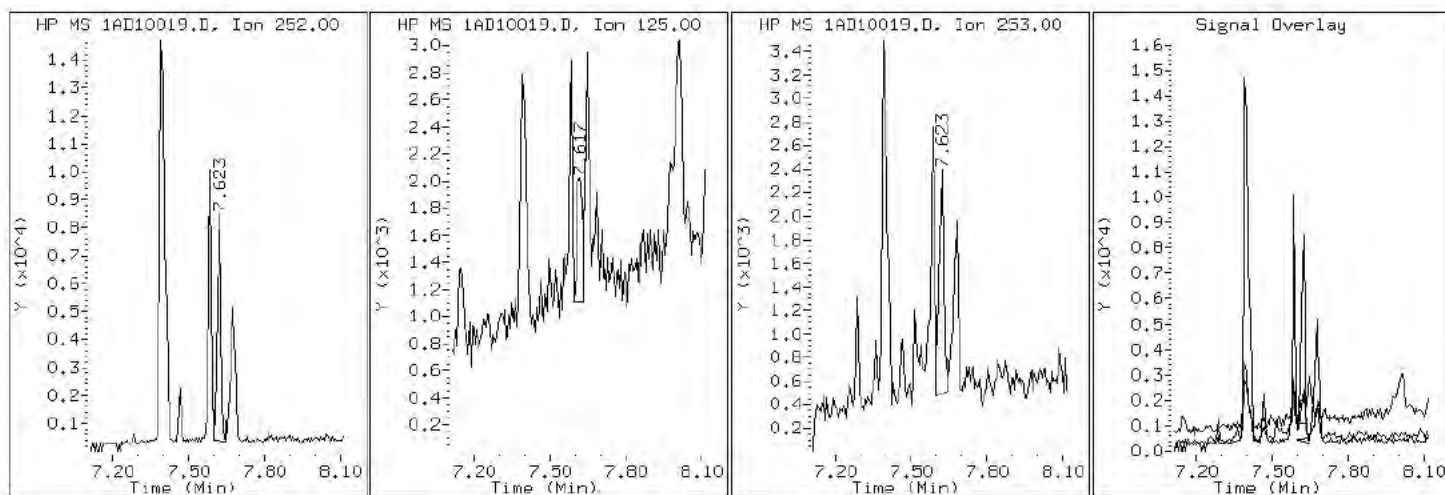
Client ID: HP0219A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-7-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10019.D

Date: 10-APR-2013 16:42

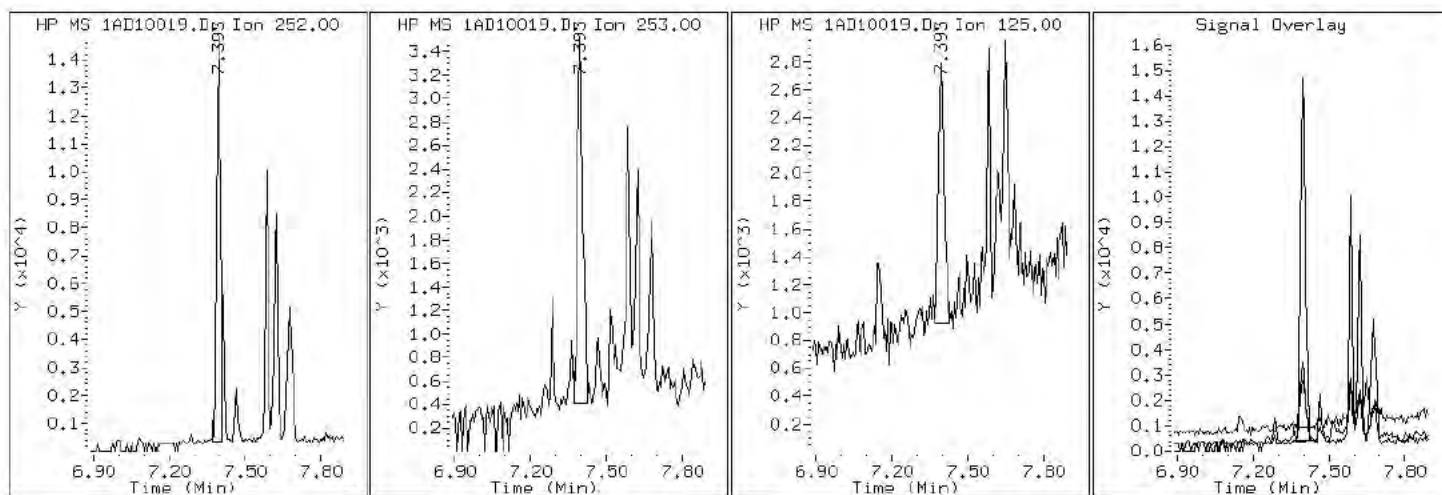
Client ID: HP0219A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-7-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10019.D

Date: 10-APR-2013 16:42

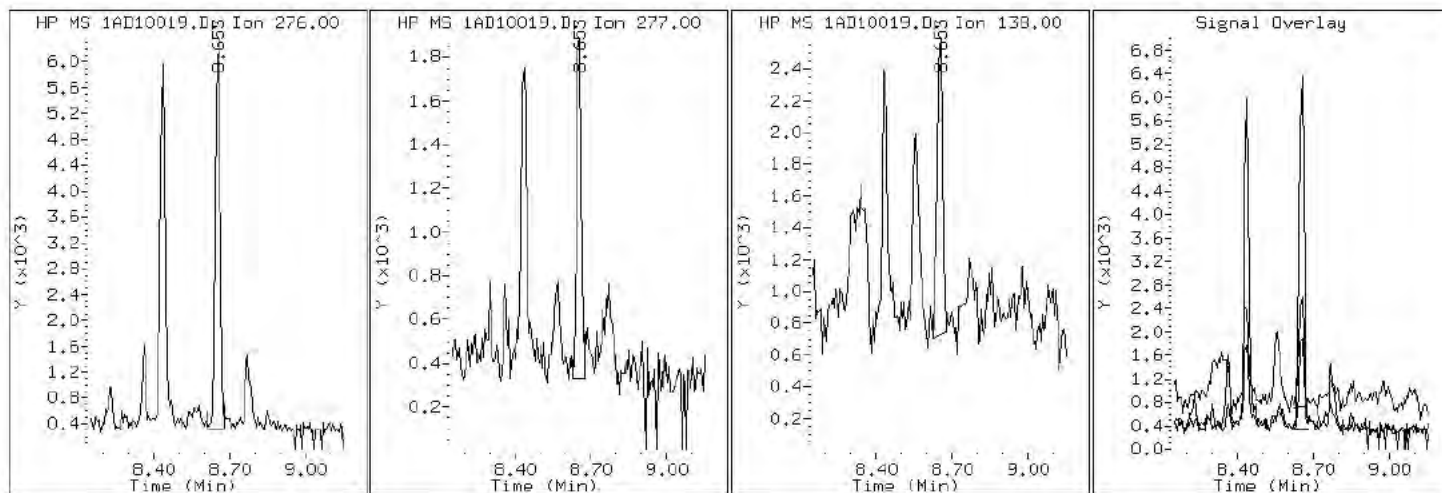
Client ID: HP0219A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-7-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10019.D

Date: 10-APR-2013 16:42

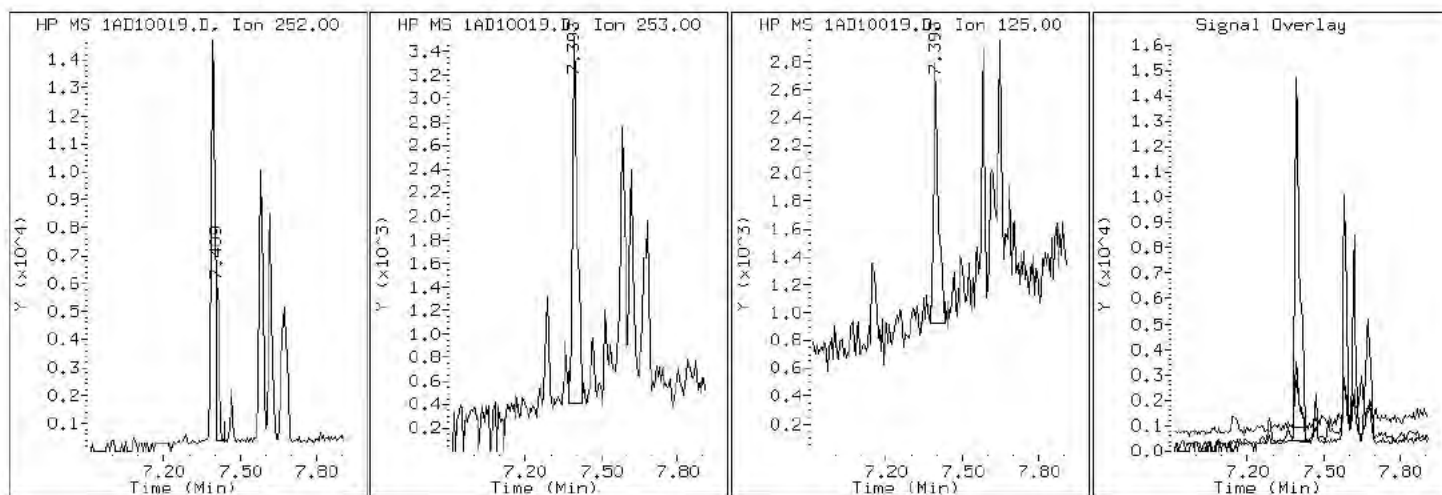
Client ID: HP0219A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-7-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10019.D

Date: 10-APR-2013 16:42

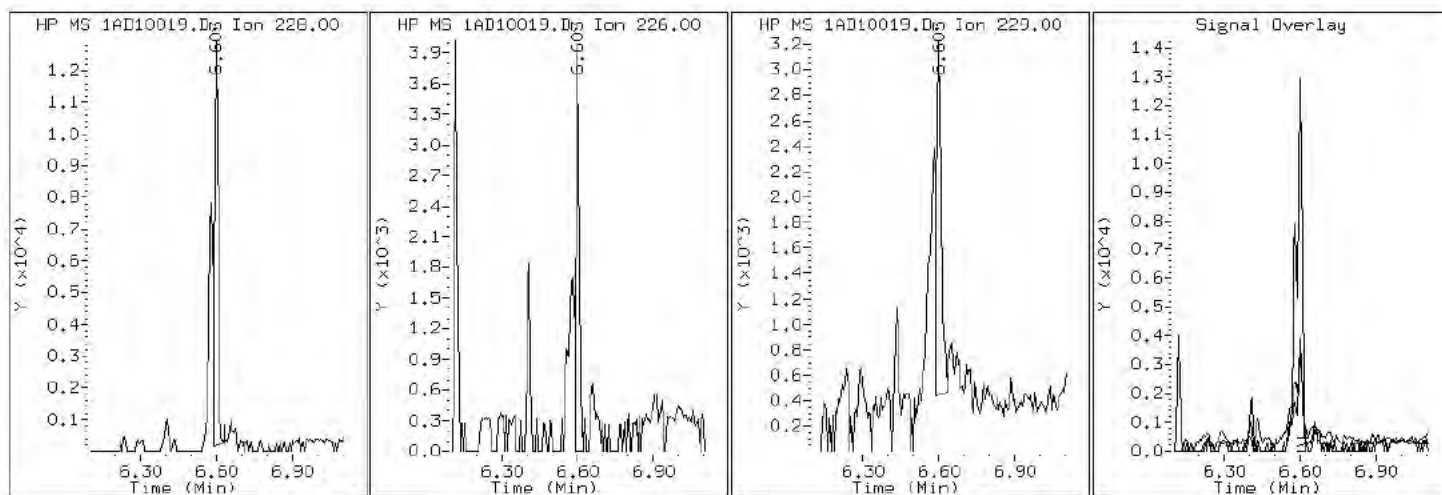
Client ID: HP0219A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-7-a

Operator: SCC

19 Chrysene



Data File: 1AD10019.D

Date: 10-APR-2013 16:42

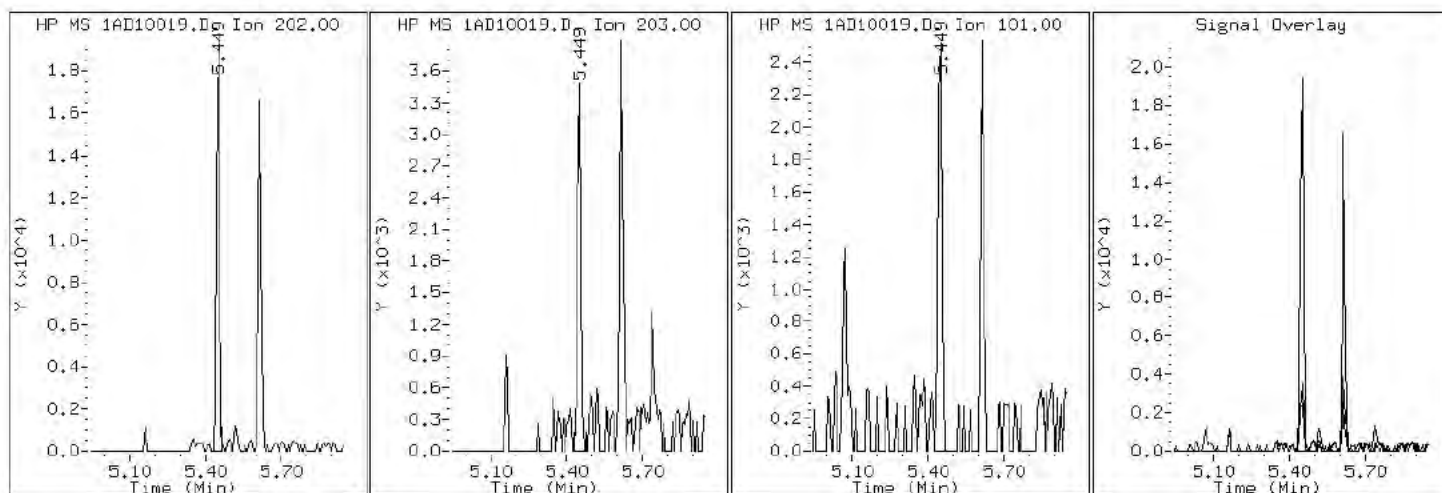
Client ID: HP0219A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-7-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10019.D

Date: 10-APR-2013 16:42

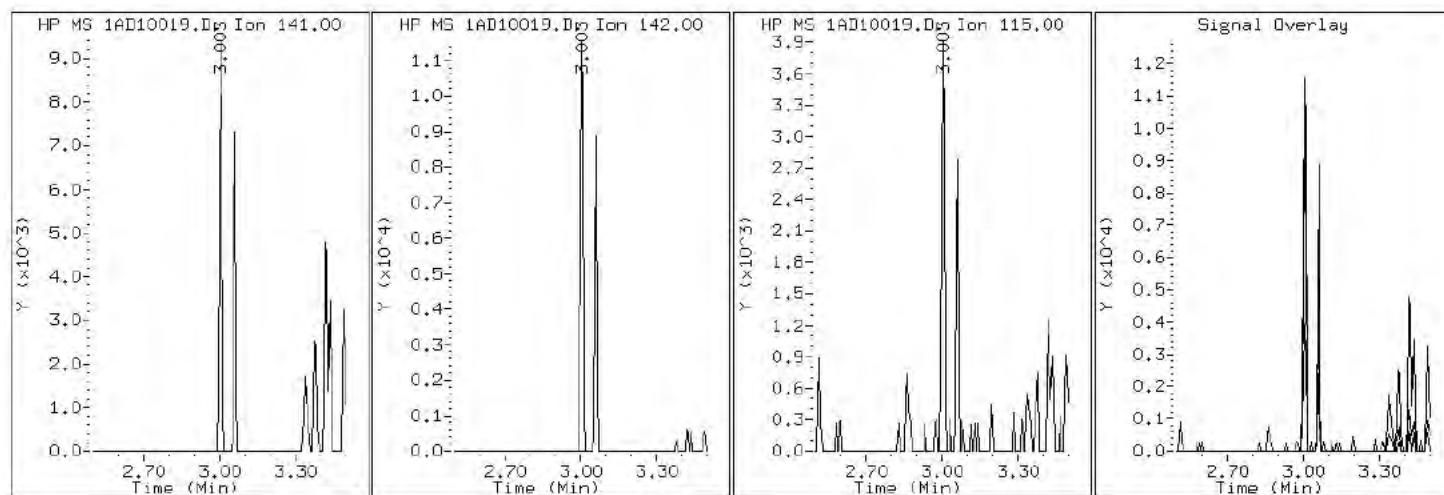
Client ID: HP0219A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-7-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10019.D

Date: 10-APR-2013 16:42

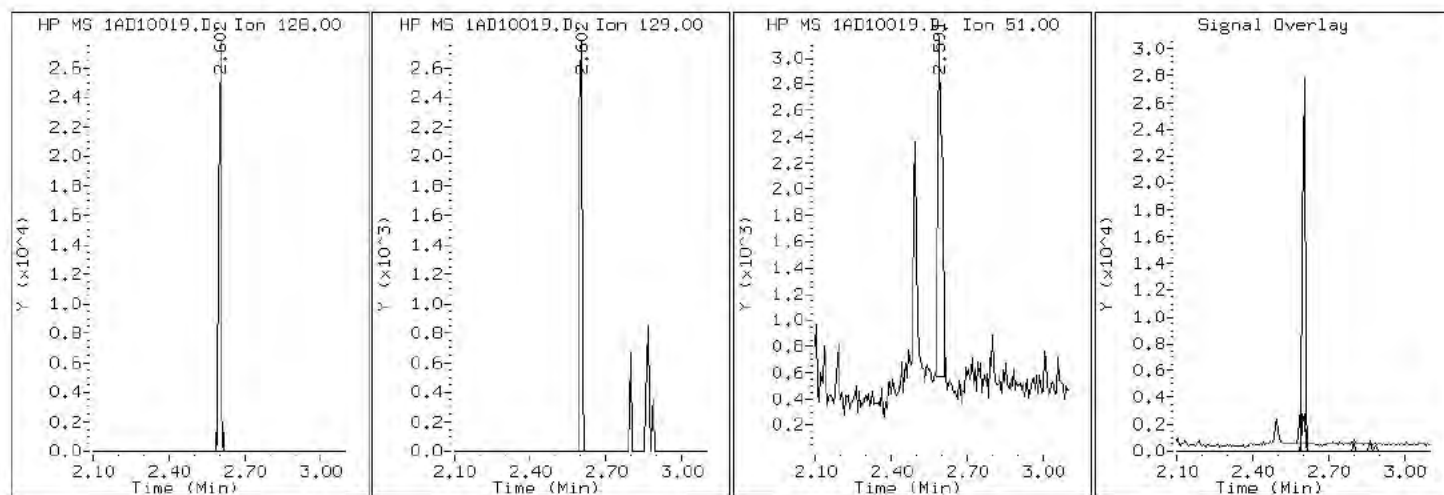
Client ID: HP0219A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-7-a

Operator: SCC

2 Naphthalene



Data File: 1AD10019.D

Date: 10-APR-2013 16:42

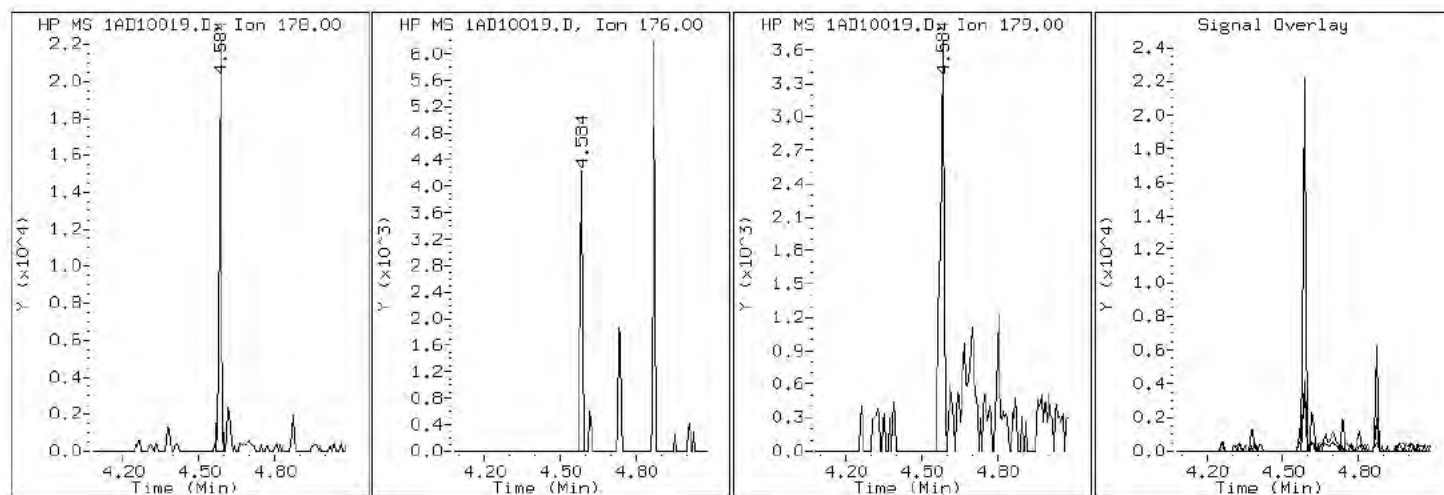
Client ID: HP0219A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-7-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10019.D

Date: 10-APR-2013 16:42

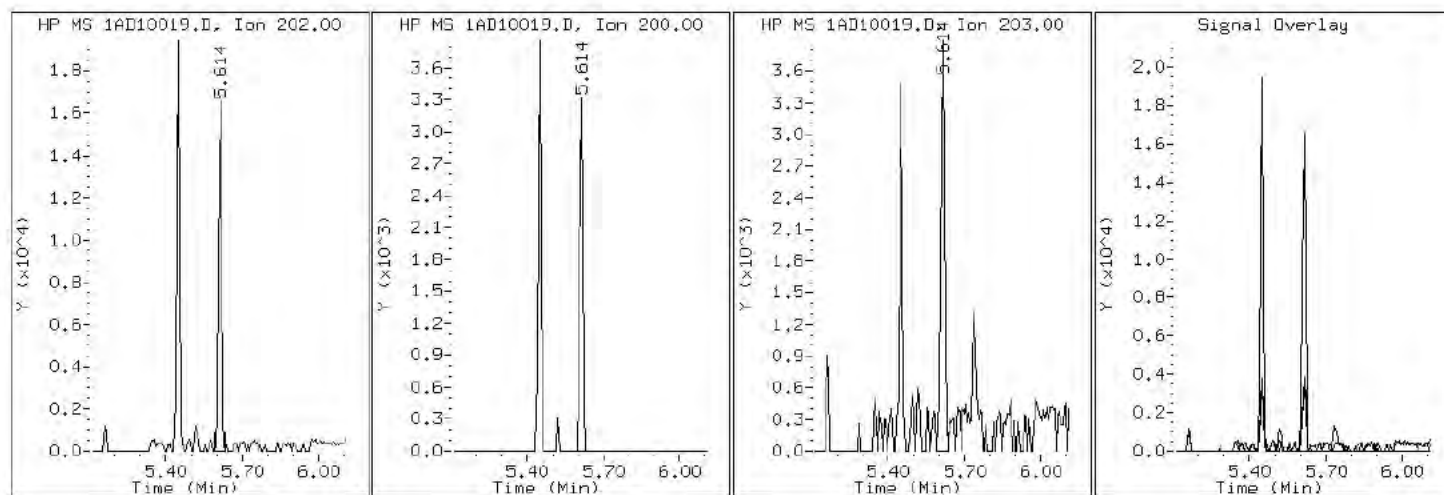
Client ID: HP0219A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-7-a

Operator: SCC

16 Pyrene

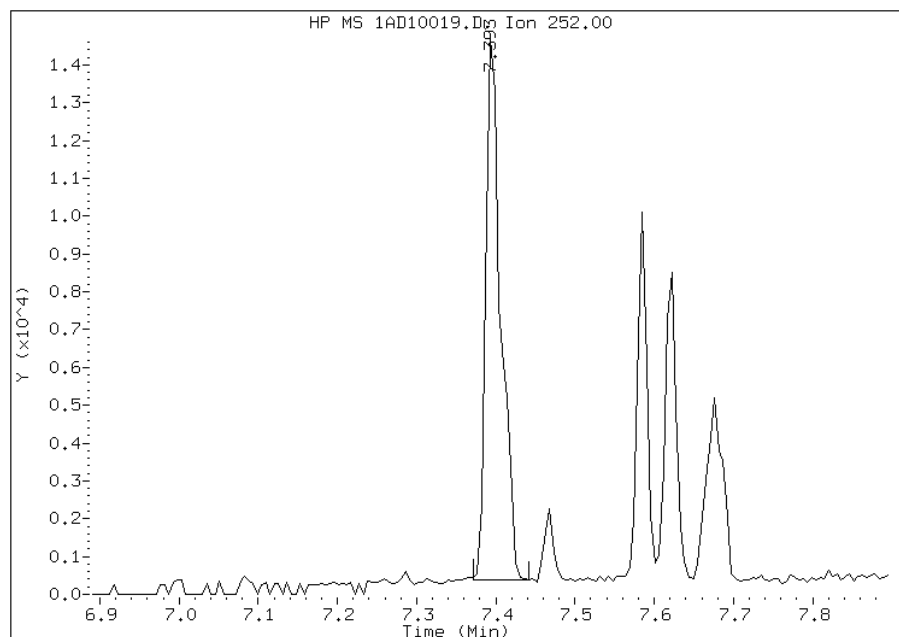


Manual Integration Report

Data File: 1AD10019.D
Inj. Date and Time: 10-APR-2013 16:42
Instrument ID: BSMA5973.i
Client ID: HP0219A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

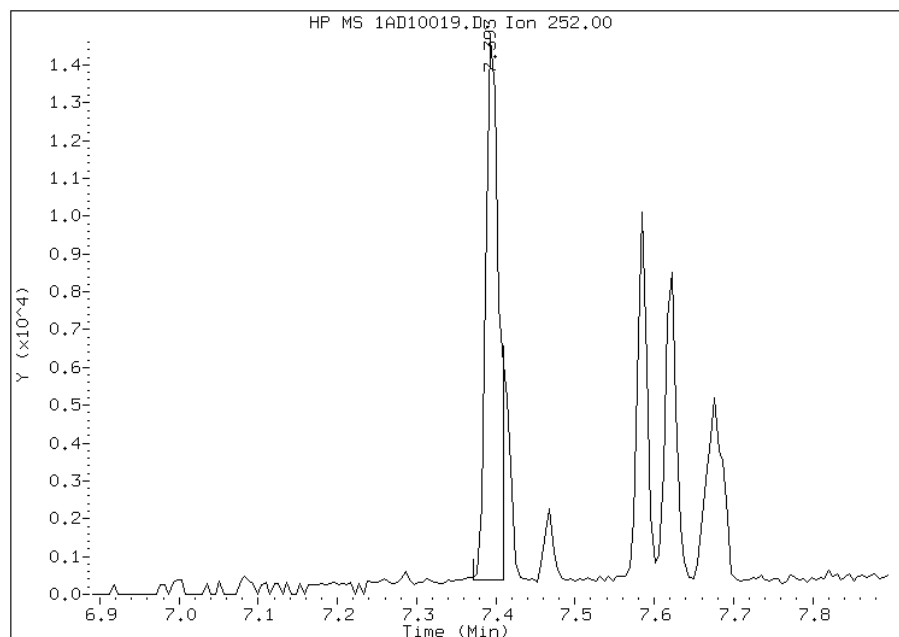
Processing Integration Results

RT: 7.39
Response: 18609
Amount: 0
Conc: 40



Manual Integration Results

RT: 7.39
Response: 16113
Amount: 0
Conc: 35



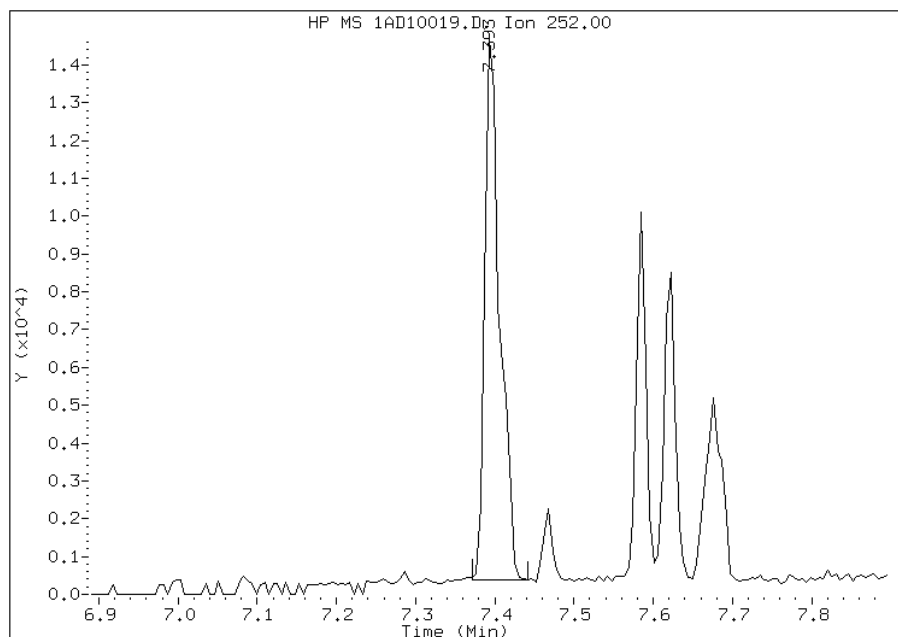
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:10
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10019.D
Inj. Date and Time: 10-APR-2013 16:42
Instrument ID: BSMA5973.i
Client ID: HP0219A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

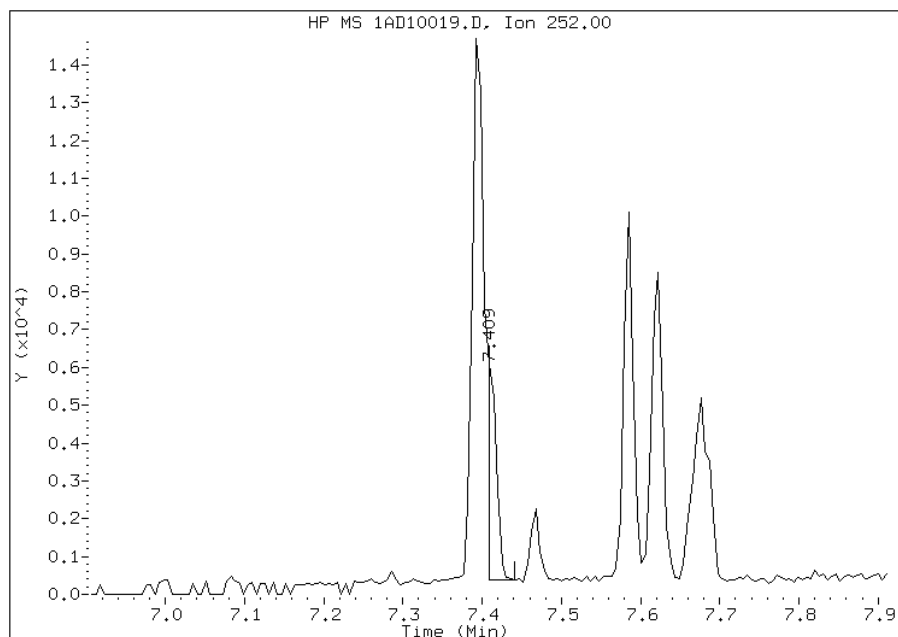
Processing Integration Results

RT: 7.39
Response: 18609
Amount: 0
Conc: 36



Manual Integration Results

RT: 7.41
Response: 4286
Amount: 0
Conc: 8



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:10
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>FM0207A-CS</u>	Lab Sample ID: <u>680-88913-8</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10020.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 14:25</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.29(g)</u>	Date Analyzed: <u>04/10/2013 16:57</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>33.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	29
208-96-8	Acenaphthylene	59	U	59	7.3
120-12-7	Anthracene	12	U	12	6.2
56-55-3	Benzo[a]anthracene	27		12	5.7
50-32-8	Benzo[a]pyrene	19		15	7.6
205-99-2	Benzo[b]fluoranthene	32		18	8.9
191-24-2	Benzo[g,h,i]perylene	18	J	29	6.4
207-08-9	Benzo[k]fluoranthene	12		12	5.3
218-01-9	Chrysene	25		13	6.6
53-70-3	Dibenz(a,h)anthracene	29	U	29	6.0
206-44-0	Fluoranthene	28	J	29	5.9
86-73-7	Fluorene	29	U	29	6.0
193-39-5	Indeno[1,2,3-cd]pyrene	54		29	10
90-12-0	1-Methylnaphthalene	59	U	59	6.4
91-57-6	2-Methylnaphthalene	37	J	59	10
91-20-3	Naphthalene	48	J	59	6.4
85-01-8	Phenanthrene	49		12	5.7
129-00-0	Pyrene	24	J	29	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10020.D
 Lab Smp Id: 680-88913-A-8-A Client Smp ID: FM0207A-CS
 Inj Date : 10-APR-2013 16:57
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88913-a-8-a
 Misc Info : 680-88913-A-8-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1A-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
 Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.290	Weight Extracted
M	33.025	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.592	2.584	(1.000)		1627374	40.0000	
* 6 Acenaphthene-d10	164		3.617	3.615	(1.000)		882012	40.0000	
* 10 Phenanthrene-d10	188		4.573	4.571	(1.000)		1376103	40.0000	
\$ 14 o-Terphenyl	230		4.872	4.870	(1.065)		168252	5.75834	562.3145
* 18 Chrysene-d12	240		6.587	6.585	(1.000)		1358115	40.0000	
* 23 Perylene-d12	264		7.671	7.664	(1.000)		1617339	40.0000	
2 Naphthalene	128		2.602	2.600	(1.004)		12998	0.49580	48.4155
3 2-Methylnaphthalene	141		3.003	3.001	(1.159)		6812	0.37796	36.9086
11 Phenanthrene	178		4.584	4.582	(1.002)		13991	0.50673	49.4837
13 Carbazole	167		4.749	4.747	(1.039)		2488	0.11406	11.1381(Q)
15 Fluoranthene	202		5.449	5.447	(1.192)		13972	0.28406	27.7387
16 Pyrene	202		5.615	5.613	(0.852)		12721	0.24307	23.7366
17 Benzo(a)anthracene	228		6.576	6.574	(0.998)		12414	0.27402	26.7590
19 Chrysene	228		6.603	6.606	(1.002)		11984	0.25937	25.3283

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
20 Benzo(b)fluoranthene	252	7.393	7.391 (0.964)		15942	0.32508	31.7446(M)
21 Benzo(k)fluoranthene	252	7.404	7.413 (0.965)		6529	0.11987	11.7056(QM)
22 Benzo(a)pyrene	252	7.618	7.616 (0.993)		9125	0.19567	19.1079
24 Indeno(1,2,3-cd)pyrene	276	8.429	8.427 (1.099)		7008	0.55024	53.7323(M)
25 Dibenzo(a,h)anthracene	278	8.456	8.459 (1.102)		1881	0.04600	4.4922(a)
26 Benzo(g,h,i)perylene	276	8.643	8.651 (1.127)		8133	0.18463	18.0293

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1AD10020.D

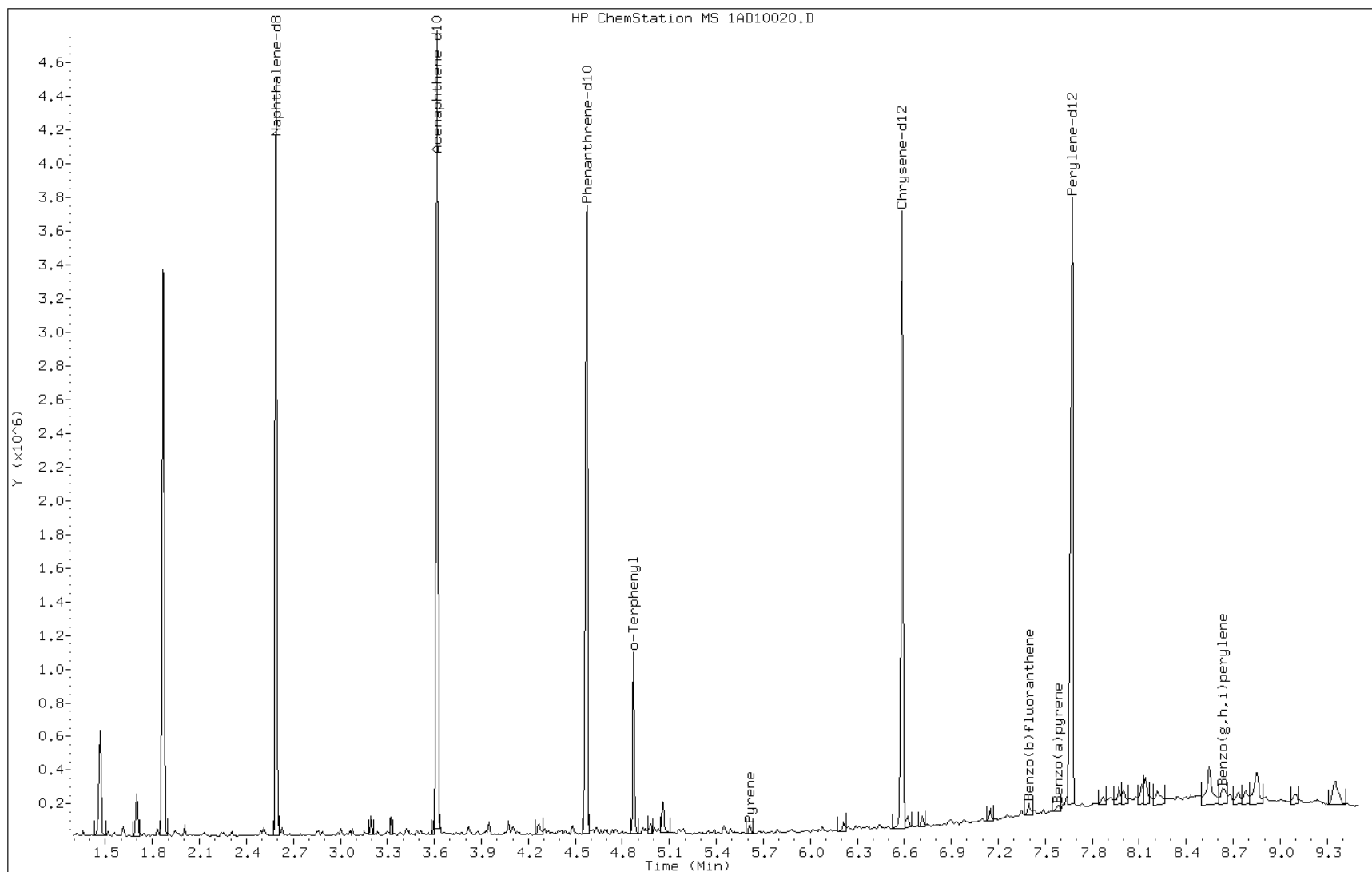
Date: 10-APR-2013 16:57

Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC



Data File: 1AD10020.D

Date: 10-APR-2013 16:57

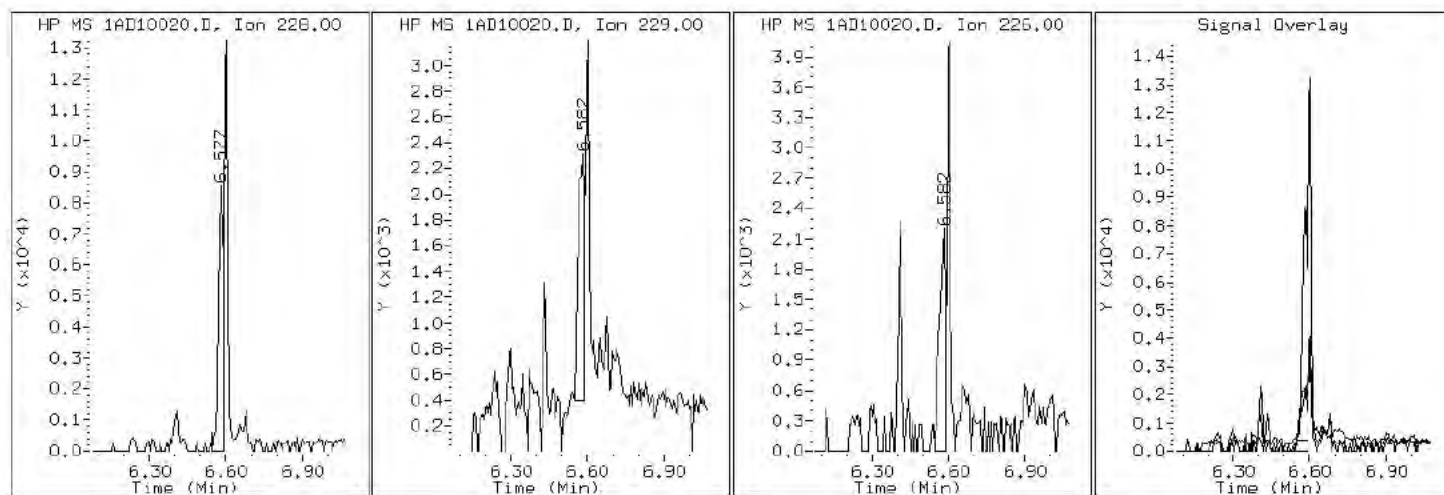
Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10020.D

Date: 10-APR-2013 16:57

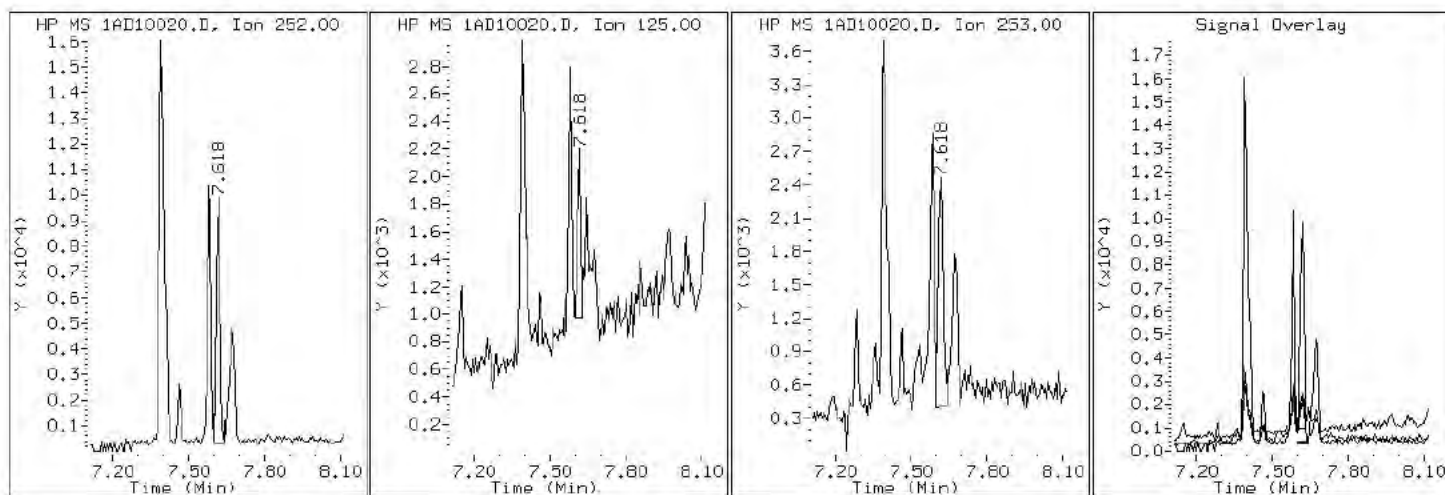
Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10020.D

Date: 10-APR-2013 16:57

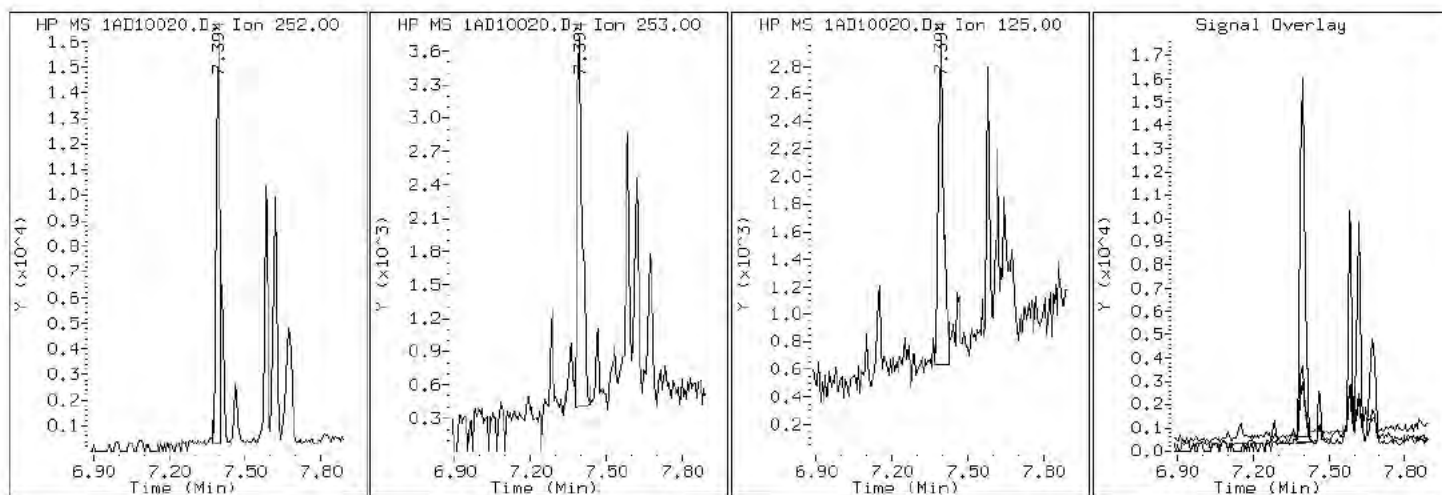
Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10020.D

Date: 10-APR-2013 16:57

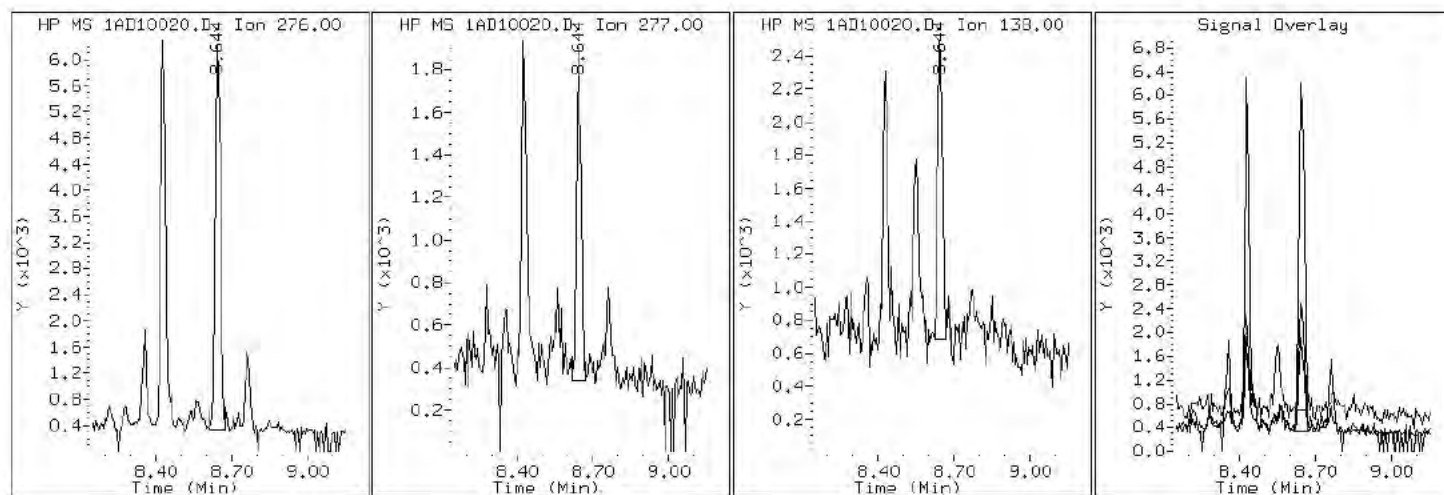
Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10020.D

Date: 10-APR-2013 16:57

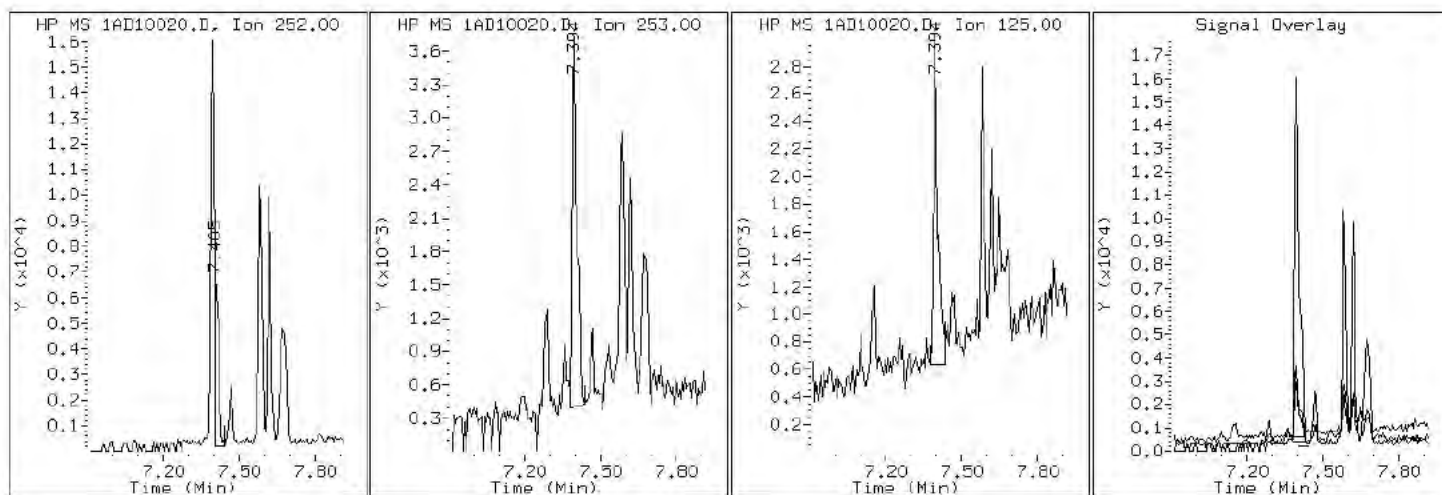
Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10020.D

Date: 10-APR-2013 16:57

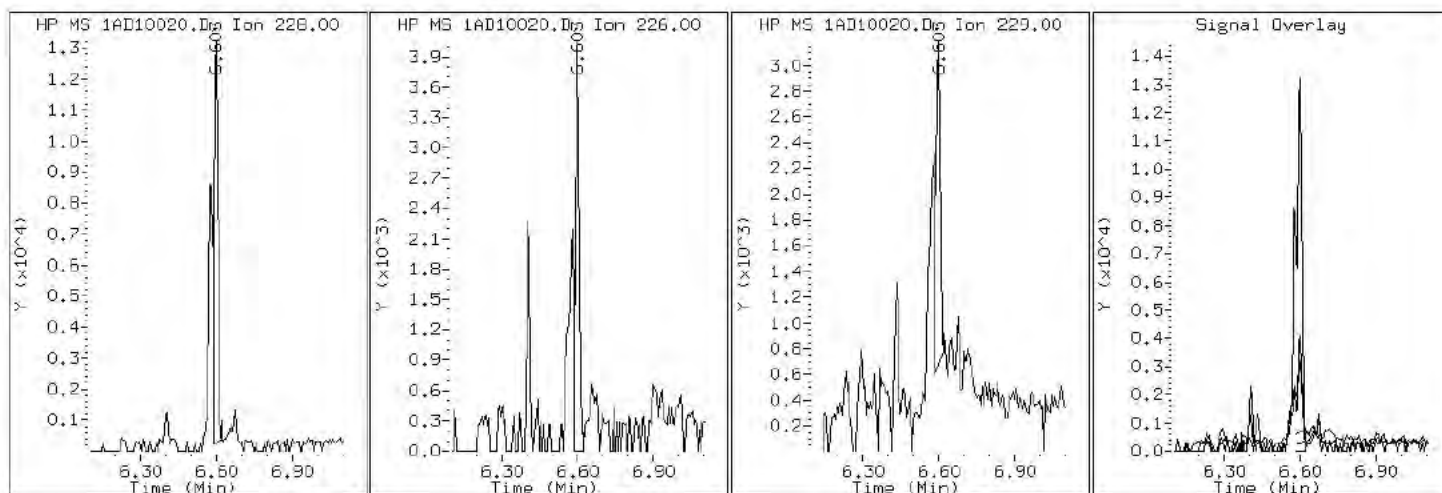
Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC

19 Chrysene



Data File: 1AD10020.D

Date: 10-APR-2013 16:57

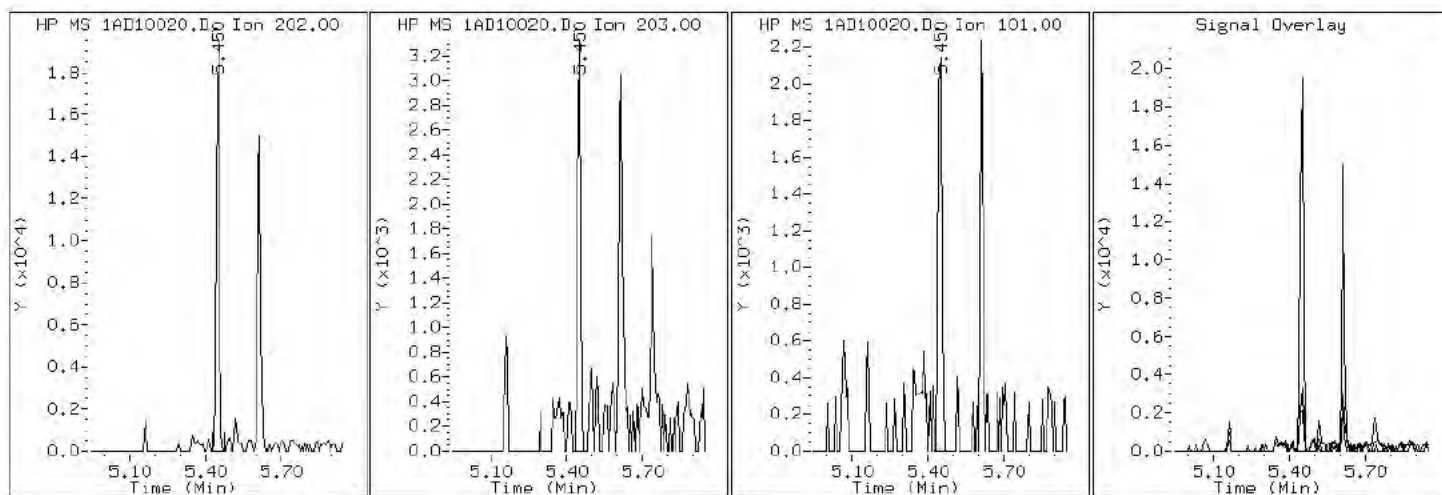
Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10020.D

Date: 10-APR-2013 16:57

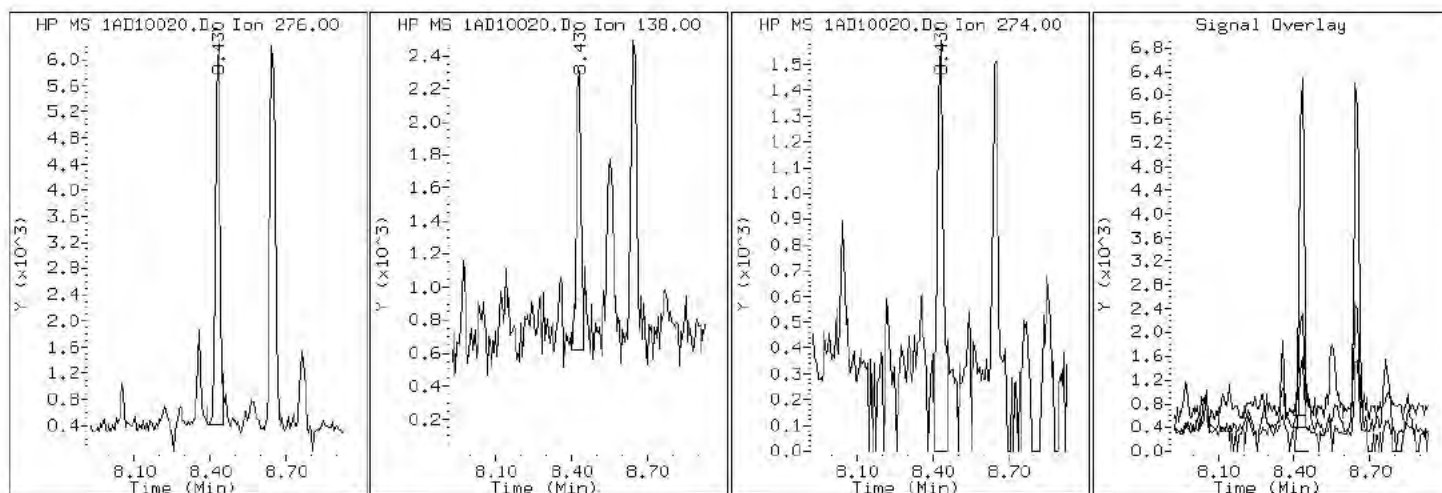
Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC

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



Data File: 1AD10020.D

Date: 10-APR-2013 16:57

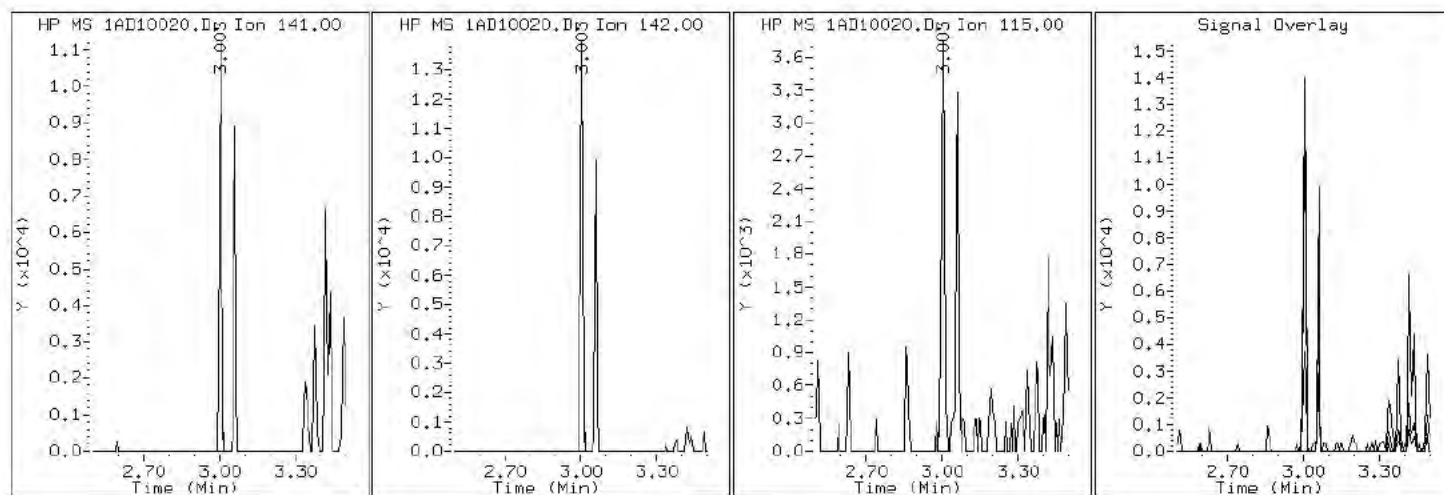
Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10020.D

Date: 10-APR-2013 16:57

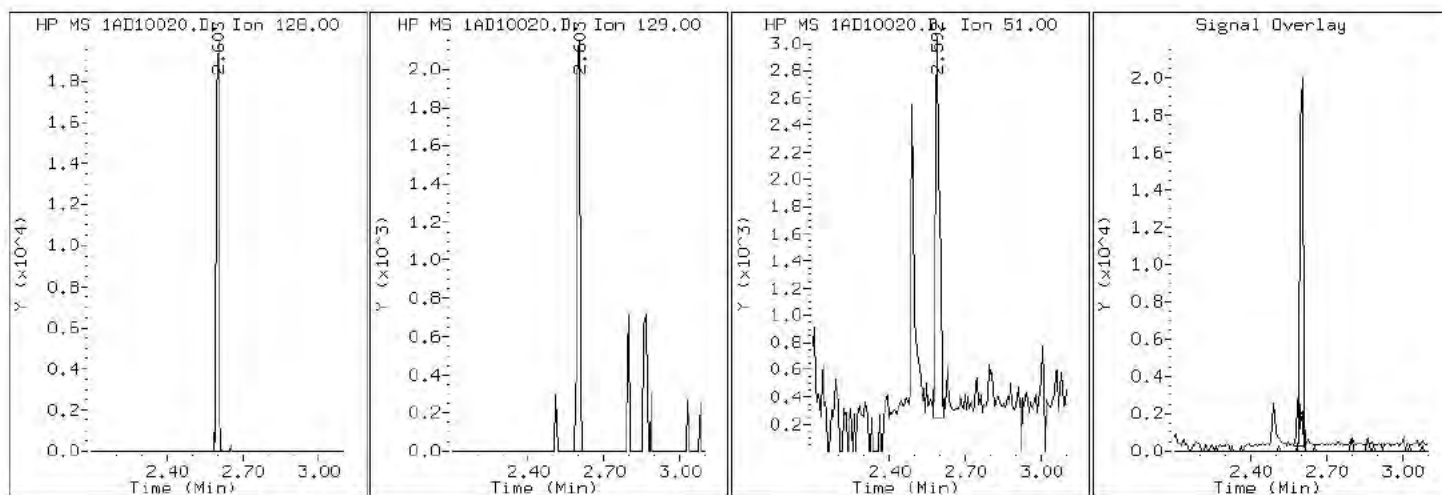
Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC

2 Naphthalene



Data File: 1AD10020.D

Date: 10-APR-2013 16:57

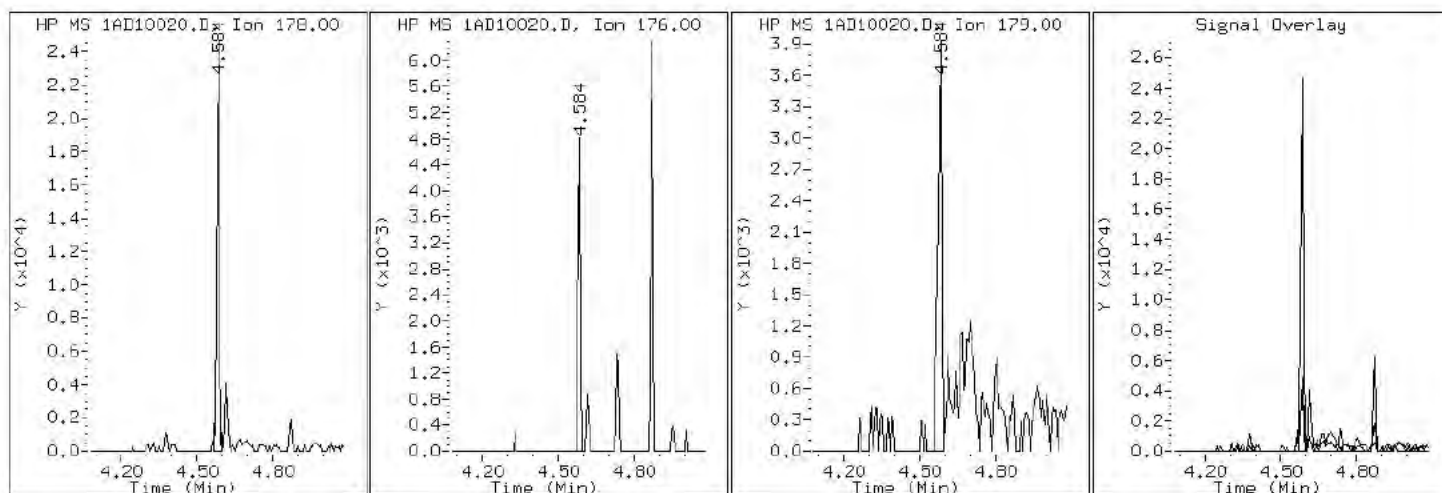
Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10020.D

Date: 10-APR-2013 16:57

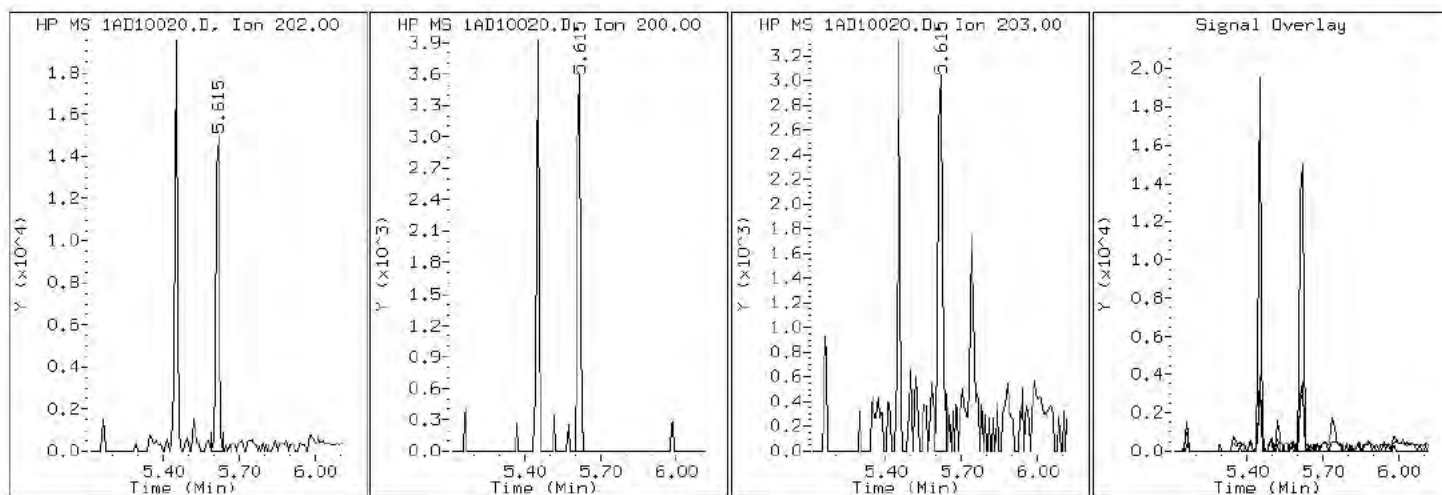
Client ID: FM0207A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-8-a

Operator: SCC

16 Pyrene

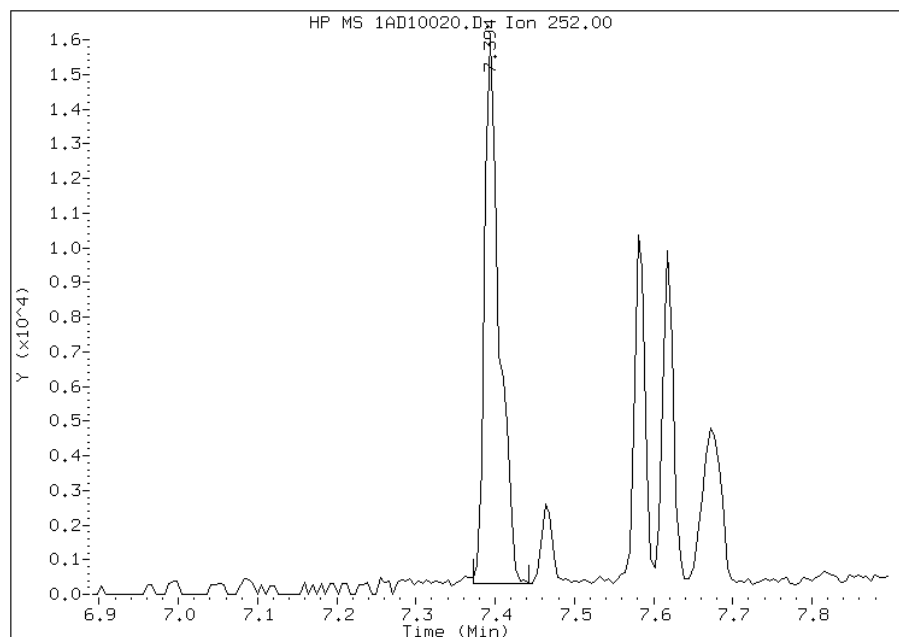


Manual Integration Report

Data File: 1AD10020.D
Inj. Date and Time: 10-APR-2013 16:57
Instrument ID: BSMA5973.i
Client ID: FM0207A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

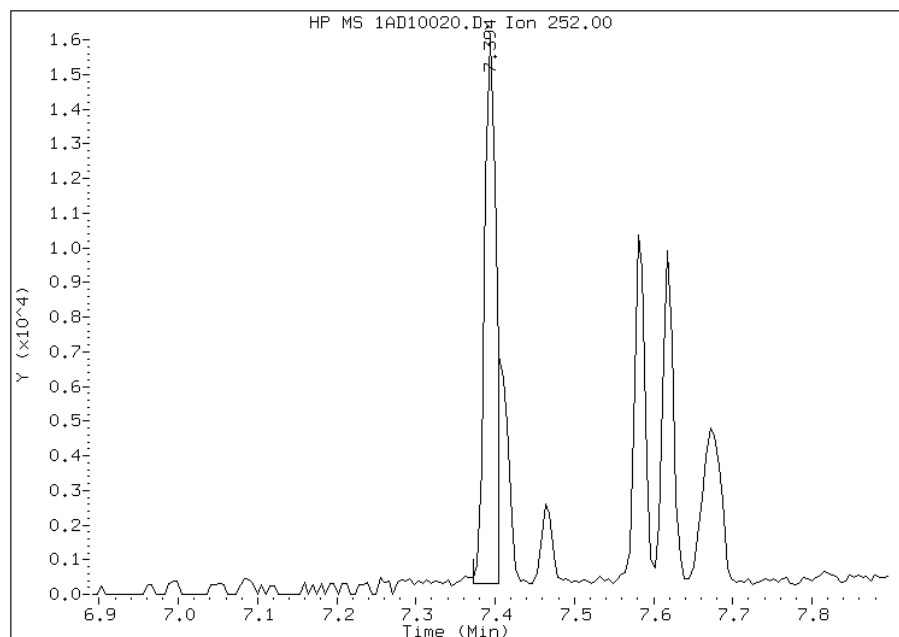
Processing Integration Results

RT: 7.39
Response: 20124
Amount: 0
Conc: 40



Manual Integration Results

RT: 7.39
Response: 15942
Amount: 0
Conc: 32



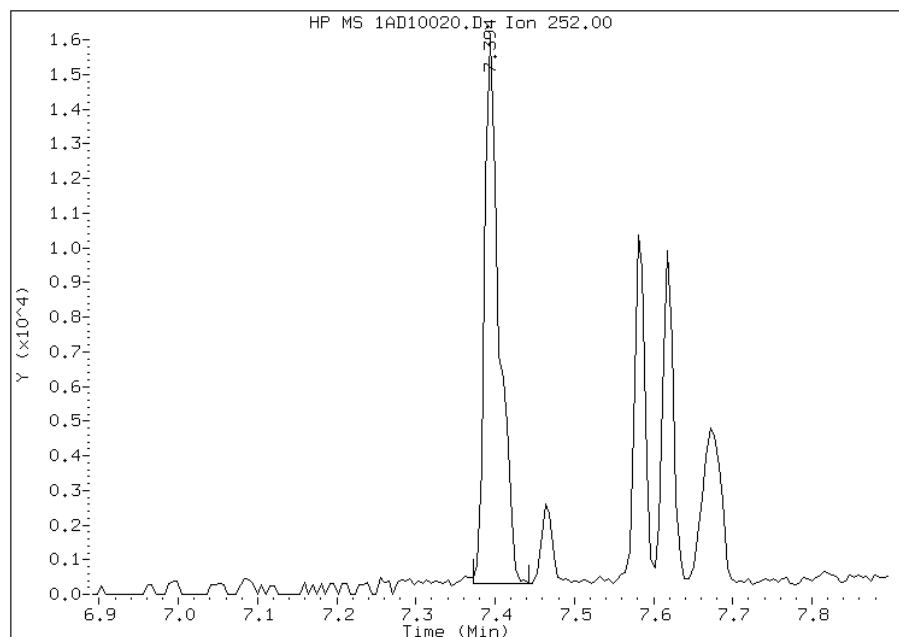
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:13
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10020.D
Inj. Date and Time: 10-APR-2013 16:57
Instrument ID: BSMA5973.i
Client ID: FM0207A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

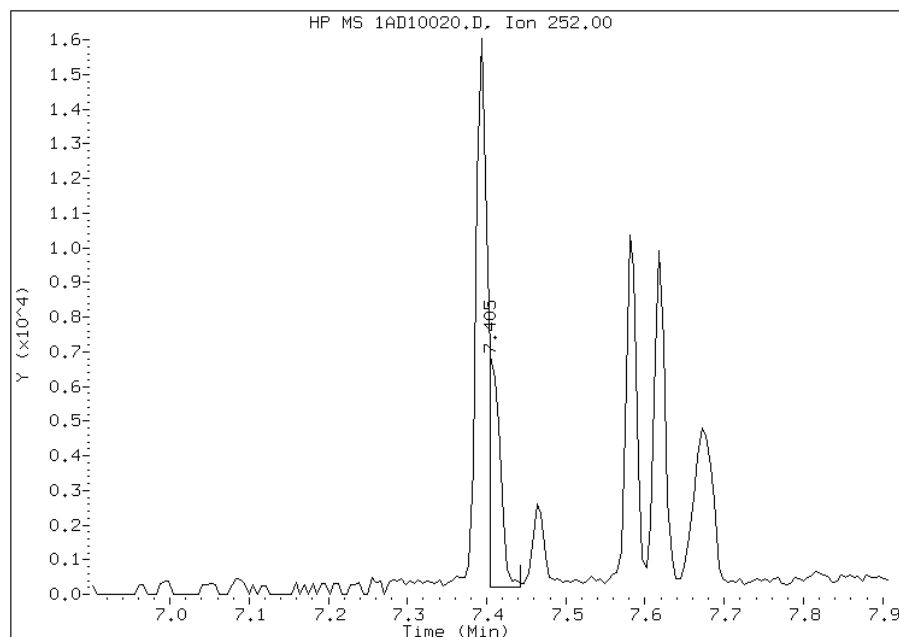
Processing Integration Results

RT: 7.39
Response: 20124
Amount: 0
Conc: 36



Manual Integration Results

RT: 7.40
Response: 6529
Amount: 0
Conc: 12



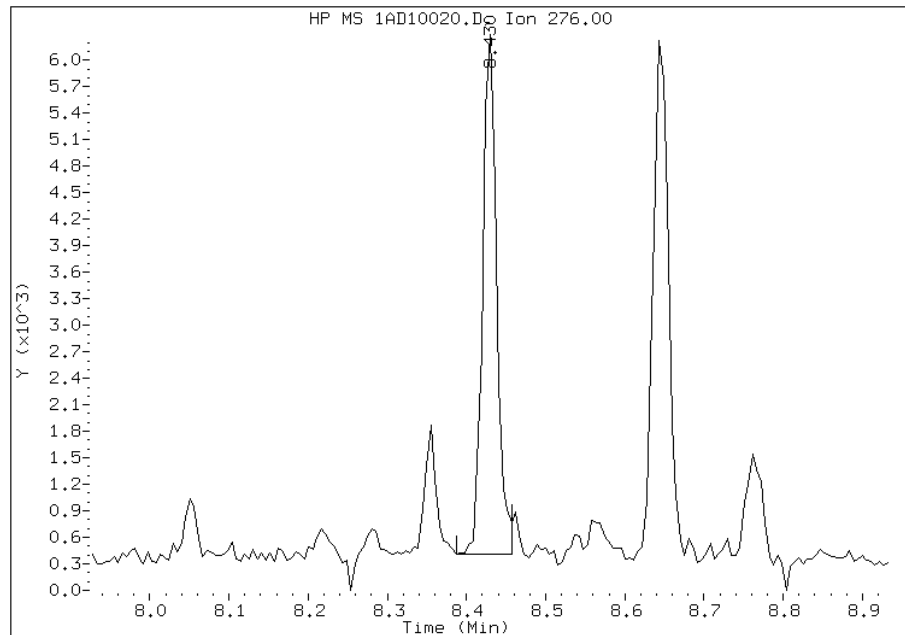
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10020.D
Inj. Date and Time: 10-APR-2013 16:57
Instrument ID: BSMA5973.i
Client ID: FM0207A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

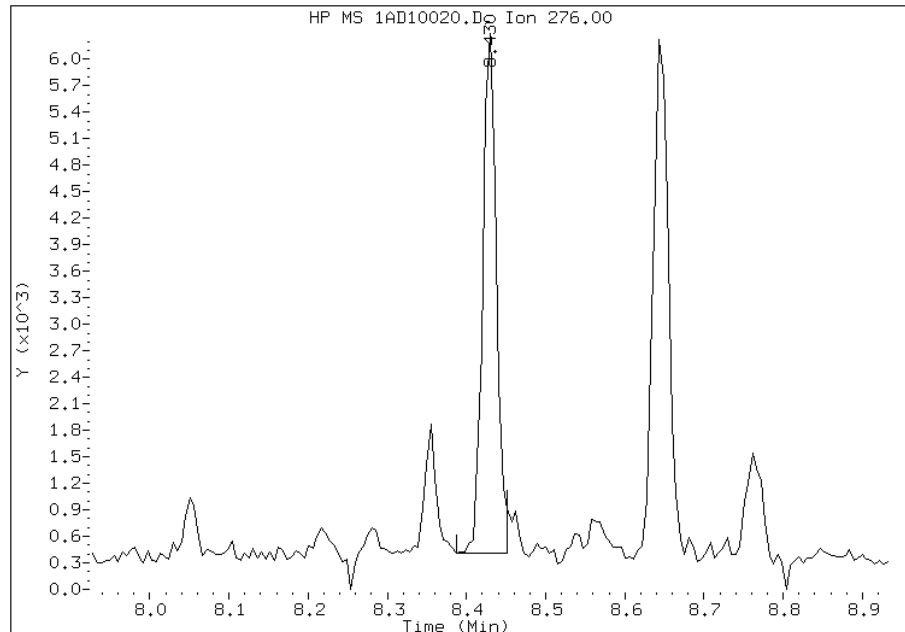
Processing Integration Results

RT: 8.43
Response: 7119
Amount: 1
Conc: 54



Manual Integration Results

RT: 8.43
Response: 7008
Amount: 1
Conc: 54



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>FM0207A-CSD</u>	Lab Sample ID: <u>680-88913-9</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10021.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 14:30</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.39(g)</u>	Date Analyzed: <u>04/10/2013 17:12</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>42.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	34
208-96-8	Acenaphthylene	68	U	68	8.5
120-12-7	Anthracene	14	U	14	7.2
56-55-3	Benzo[a]anthracene	14	U	14	6.6
50-32-8	Benzo[a]pyrene	18	U	18	8.9
205-99-2	Benzo[b]fluoranthene	11	J	21	10
191-24-2	Benzo[g,h,i]perylene	34	U	34	7.5
207-08-9	Benzo[k]fluoranthene	14	U	14	6.1
218-01-9	Chrysene	15	U	15	7.7
53-70-3	Dibenz(a,h)anthracene	34	U	34	7.0
206-44-0	Fluoranthene	34	U	34	6.8
86-73-7	Fluorene	34	U	34	7.0
193-39-5	Indeno[1,2,3-cd]pyrene	34	U	34	12
90-12-0	1-Methylnaphthalene	68	U	68	7.5
91-57-6	2-Methylnaphthalene	68	U	68	12
91-20-3	Naphthalene	68	U	68	7.5
85-01-8	Phenanthrene	14	U	14	6.6
129-00-0	Pyrene	6.7	J	34	6.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	56		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10021.D
Lab Smp Id: 680-88913-A-9-A Client Smp ID: FM0207A-CSD
Inj Date : 10-APR-2013 17:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88913-a-9-a
Misc Info : 680-88913-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10021.D
Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{\text{Vi}} * \frac{\text{Vt}}{\text{Ws}} * \frac{100}{(100 - \text{M})} * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	Weight Extracted
M	42.826	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.590	2.584	(1.000)		1676153	40.0000	
* 6 Acenaphthene-d10	164		3.616	3.615	(1.000)		912314	40.0000	
* 10 Phenanthrene-d10	188		4.572	4.571	(1.000)		1440715	40.0000	
\$ 14 o-Terphenyl	230		4.871	4.870	(1.065)		171298	5.58092	634.2626
* 18 Chrysene-d12	240		6.591	6.585	(1.000)		1417892	40.0000	
* 23 Perylene-d12	264		7.675	7.664	(1.000)		1661217	40.0000	
16 Pyrene	202		5.613	5.613	(0.852)		3230	0.05912	6.7185(M)
20 Benzo(b)fluoranthene	252		7.392	7.391	(0.963)		4725	0.09380	10.6606(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD10021.D

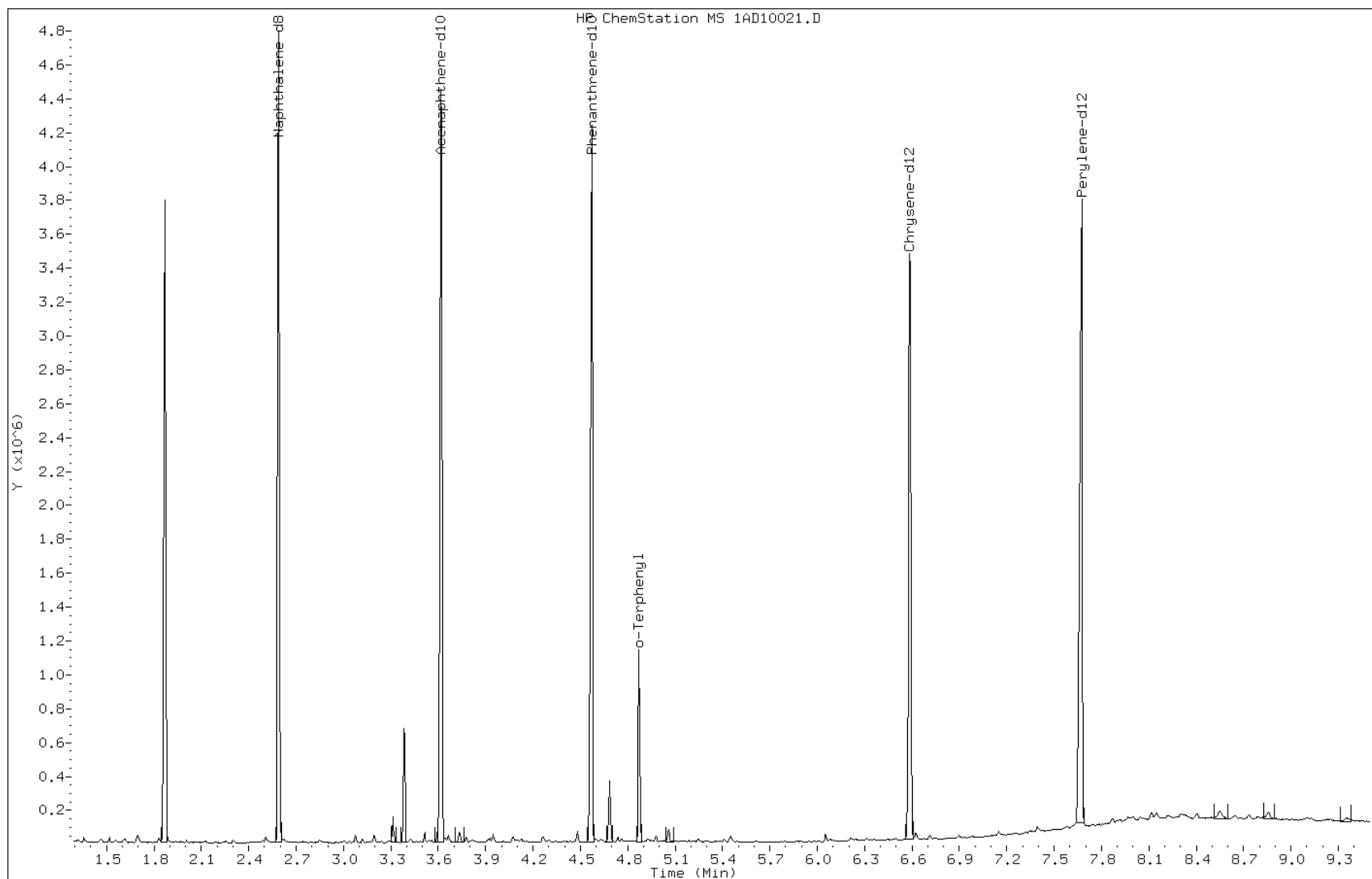
Date: 10-APR-2013 17:12

Client ID: FM0207A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88913-a-9-a

Operator: SCC



Data File: 1AD10021.D

Date: 10-APR-2013 17:12

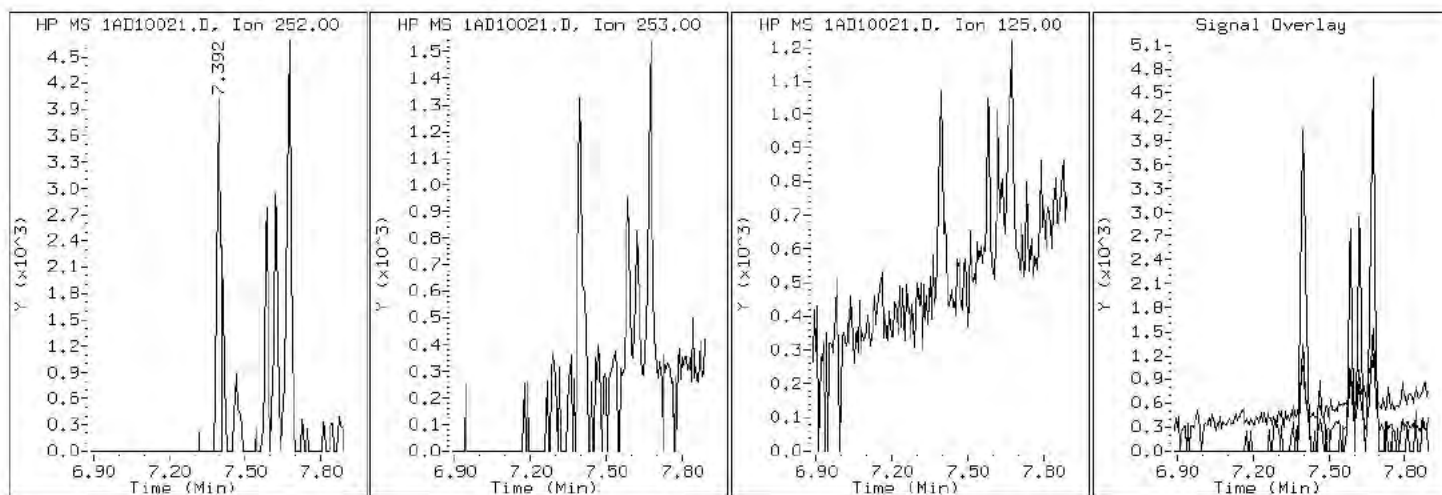
Client ID: FM0207A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88913-a-9-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10021.D

Date: 10-APR-2013 17:12

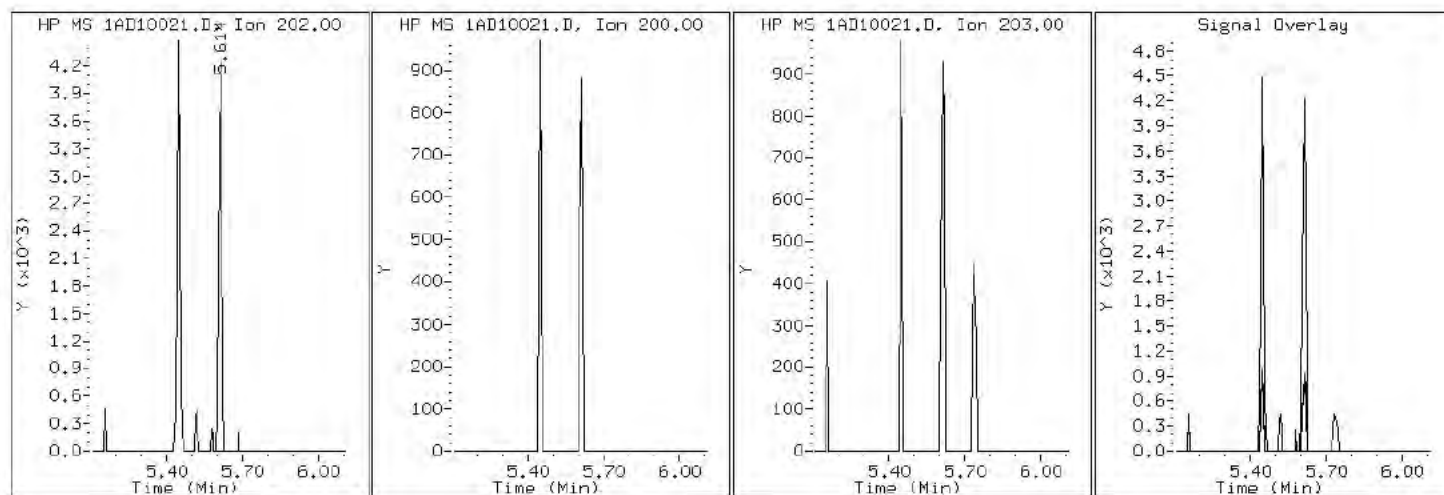
Client ID: FM0207A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88913-a-9-a

Operator: SCC

16 Pyrene



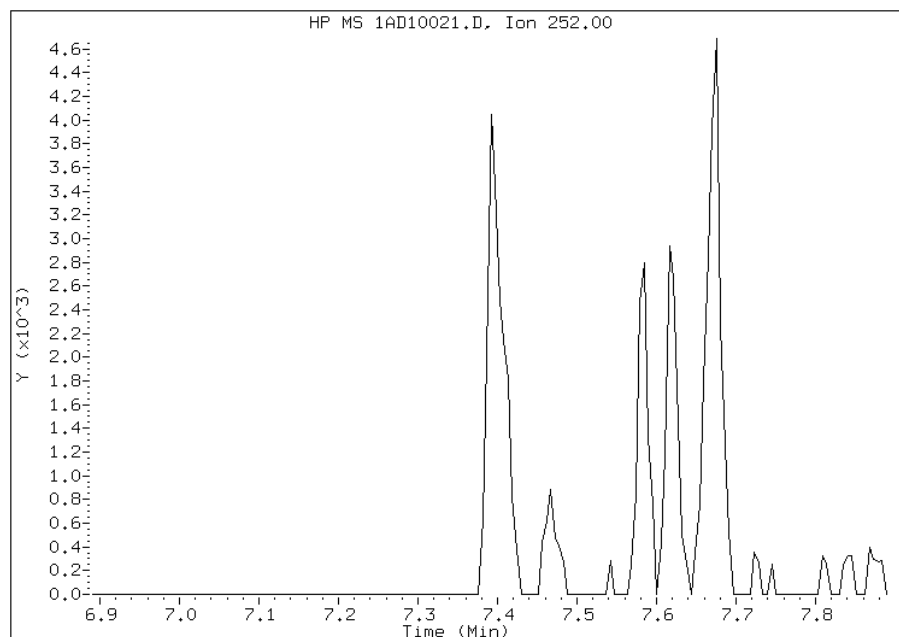
Manual Integration Report

Data File: 1AD10021.D
Inj. Date and Time: 10-APR-2013 17:12
Instrument ID: BSMA5973.i
Client ID: FM0207A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

Processing Integration Results

Not Detected

Expected RT: 7.39



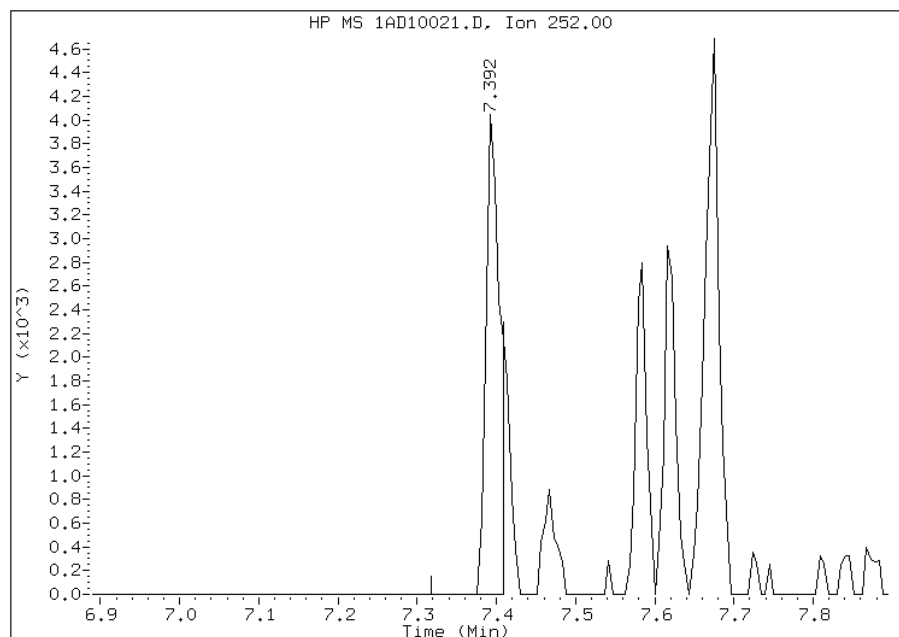
Manual Integration Results

RT: 7.39

Response: 4725

Amount: 0

Conc: 11



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:15
Manual Integration Reason: Analyte not Identified by the Data System

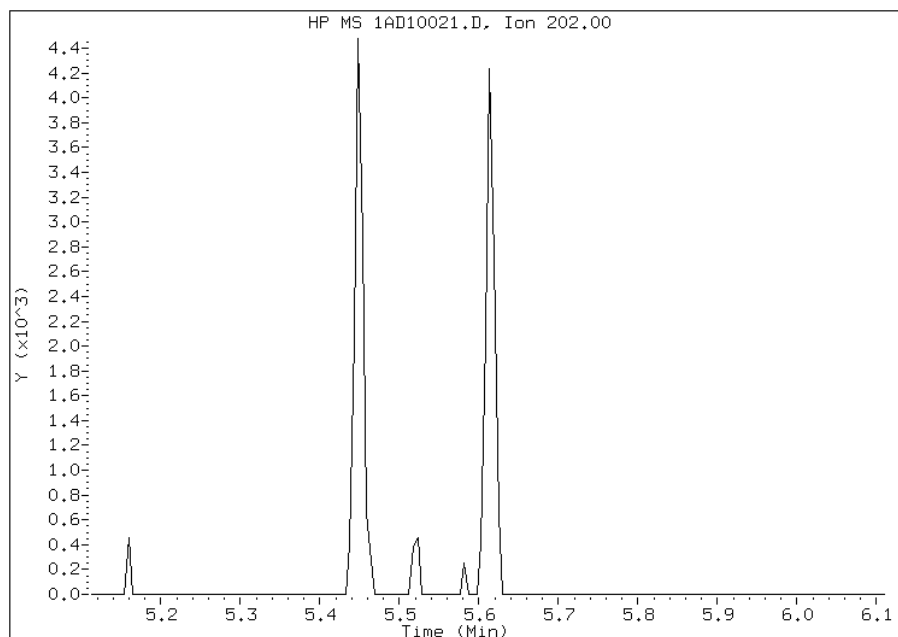
Manual Integration Report

Data File: 1AD10021.D
Inj. Date and Time: 10-APR-2013 17:12
Instrument ID: BSMA5973.i
Client ID: FM0207A-CSD
Compound: 16 Pyrene
CAS #: 129-00-0
Report Date: 04/11/2013

Processing Integration Results

Not Detected

Expected RT: 5.61



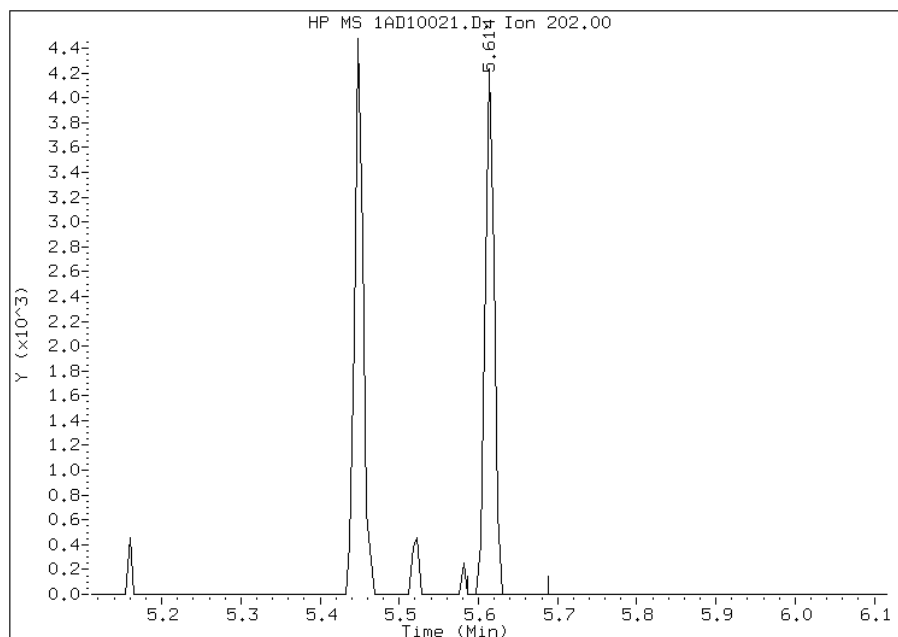
Manual Integration Results

RT: 5.61

Response: 3230

Amount: 0

Conc: 7



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:14
Manual Integration Reason: Analyte not Identified by the Data System

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>FM0207B-CS</u>	Lab Sample ID: <u>680-88913-10</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10022.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 14:37</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.37(g)</u>	Date Analyzed: <u>04/10/2013 17:28</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>19.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	49	U	49	6.1
120-12-7	Anthracene	10	U	10	5.1
56-55-3	Benzo[a]anthracene	72		9.7	4.7
50-32-8	Benzo[a]pyrene	69		13	6.3
205-99-2	Benzo[b]fluoranthene	120		15	7.4
191-24-2	Benzo[g,h,i]perylene	65		24	5.4
207-08-9	Benzo[k]fluoranthene	34		9.7	4.4
218-01-9	Chrysene	110		11	5.5
53-70-3	Dibenz(a,h)anthracene	24		24	5.0
206-44-0	Fluoranthene	80		24	4.9
86-73-7	Fluorene	24	U	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	86		24	8.6
90-12-0	1-Methylnaphthalene	62		49	5.4
91-57-6	2-Methylnaphthalene	71		49	8.6
91-20-3	Naphthalene	81		49	5.4
85-01-8	Phenanthrene	98		9.7	4.7
129-00-0	Pyrene	75		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10022.D
Lab Smp Id: 680-88913-A-10-A Client Smp ID: FM0207B-CS
Inj Date : 10-APR-2013 17:28
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88913-a-10-a
Misc Info : 680-88913-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1A-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	19.756	% 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	FINAL
							(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8		136	2.592	2.584 (1.000)		1595339	40.0000	
* 6 Acenaphthene-d10		164	3.617	3.615 (1.000)		830615	40.0000	
* 10 Phenanthrene-d10		188	4.573	4.571 (1.000)		1329471	40.0000	
\$ 14 o-Terphenyl		230	4.872	4.870 (1.065)		145856	5.10349	413.7889
* 18 Chrysene-d12		240	6.587	6.585 (1.000)		1307403	40.0000	
* 23 Perylene-d12		264	7.676	7.664 (1.000)		1609508	40.0000	
2 Naphthalene		128	2.602	2.600 (1.004)		47976	0.99816	80.9307
3 2-Methylnaphthalene		141	3.003	3.001 (1.159)		26300	0.88069	71.4061
4 1-Methylnaphthalene		142	3.062	3.060 (1.181)		23151	0.76206	61.7874
11 Phenanthrene		178	4.584	4.582 (1.002)		58039	1.20651	97.8234
13 Carbazole		167	4.749	4.747 (1.039)		6117	0.18436	14.9480
15 Fluoranthene		202	5.449	5.447 (1.192)		56395	0.98341	79.7341
16 Pyrene		202	5.615	5.613 (0.852)		46545	0.92388	74.9079
17 Benzo(a)anthracene		228	6.581	6.574 (0.999)		38471	0.88214	71.5235

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
19 Chrysene	228	6.603	6.606	(1.002)	58054	1.30522	105.8262
20 Benzo(b)fluoranthene	252	7.393	7.391	(0.963)	74743	1.53152	124.1751(M)
21 Benzo(k)fluoranthene	252	7.409	7.413	(0.965)	22840	0.42138	34.1650(QM)
22 Benzo(a)pyrene	252	7.623	7.616	(0.993)	39775	0.85707	69.4908
24 Indeno(1,2,3-cd)pyrene	276	8.440	8.427	(1.099)	30896	1.06499	86.3486(M)
25 Dibenzo(a,h)anthracene	278	8.467	8.459	(1.103)	12266	0.30144	24.4410
26 Benzo(g,h,i)perylene	276	8.659	8.651	(1.128)	35347	0.80632	65.3762

QC Flag Legend

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

Data File: 1AD10022.D

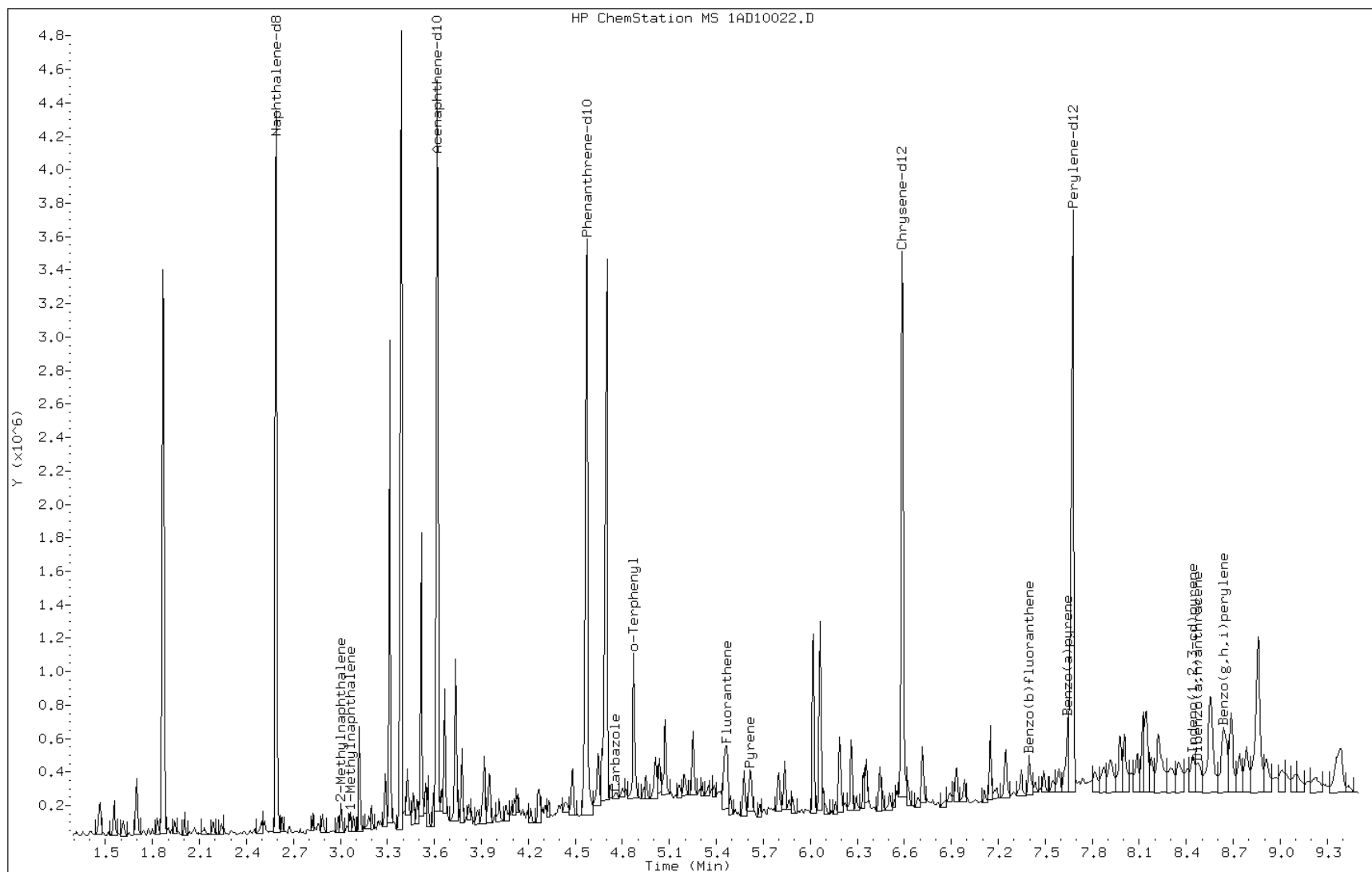
Date: 10-APR-2013 17:28

Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

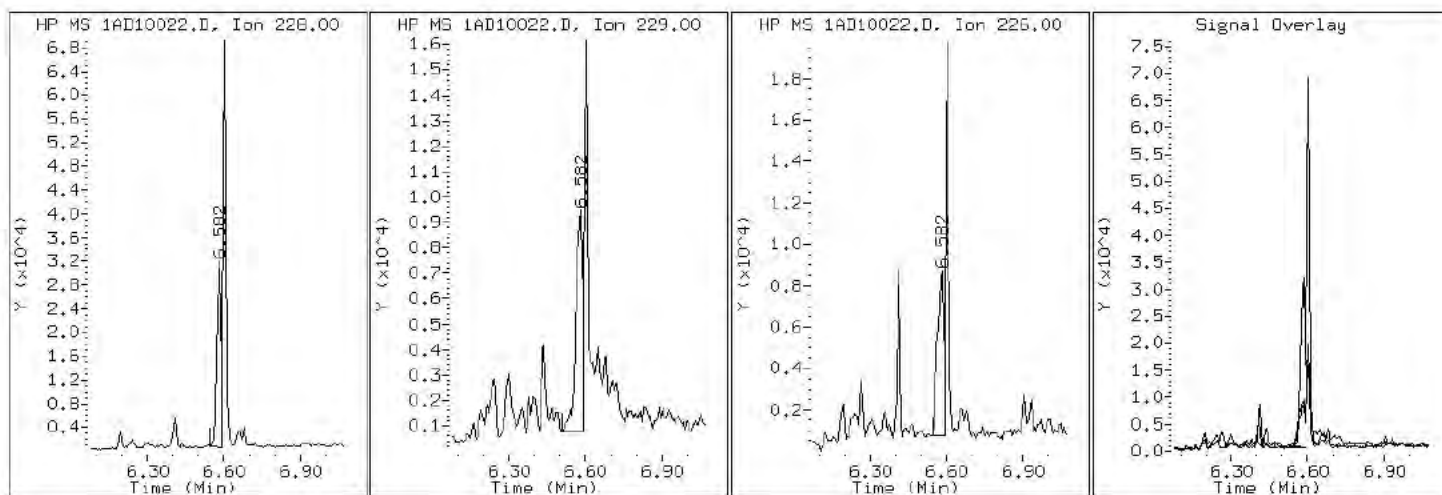
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

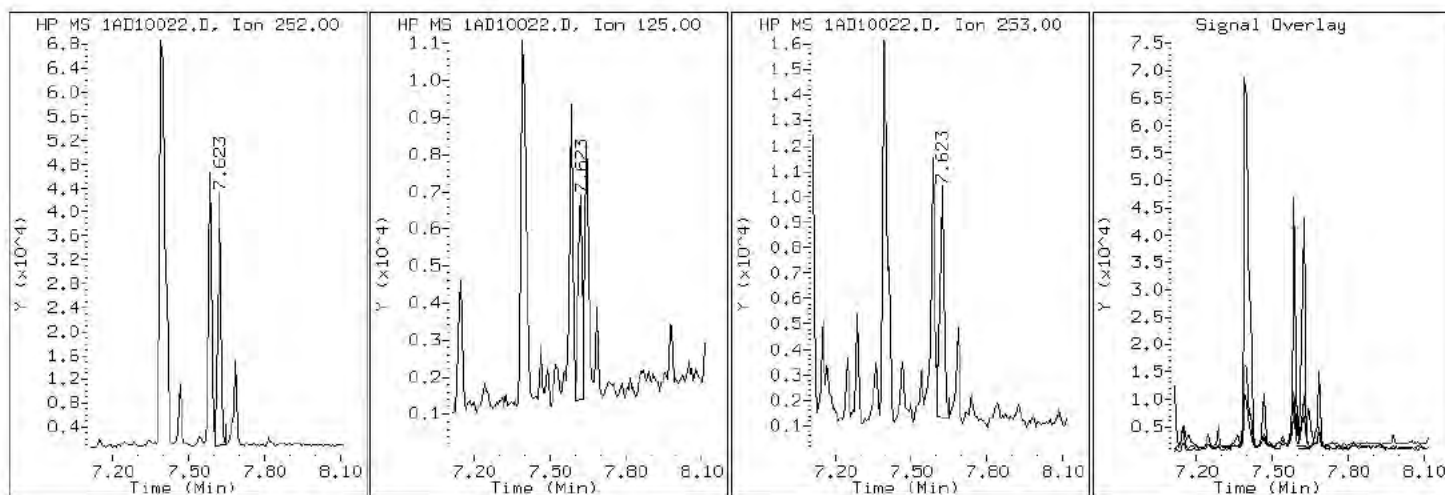
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

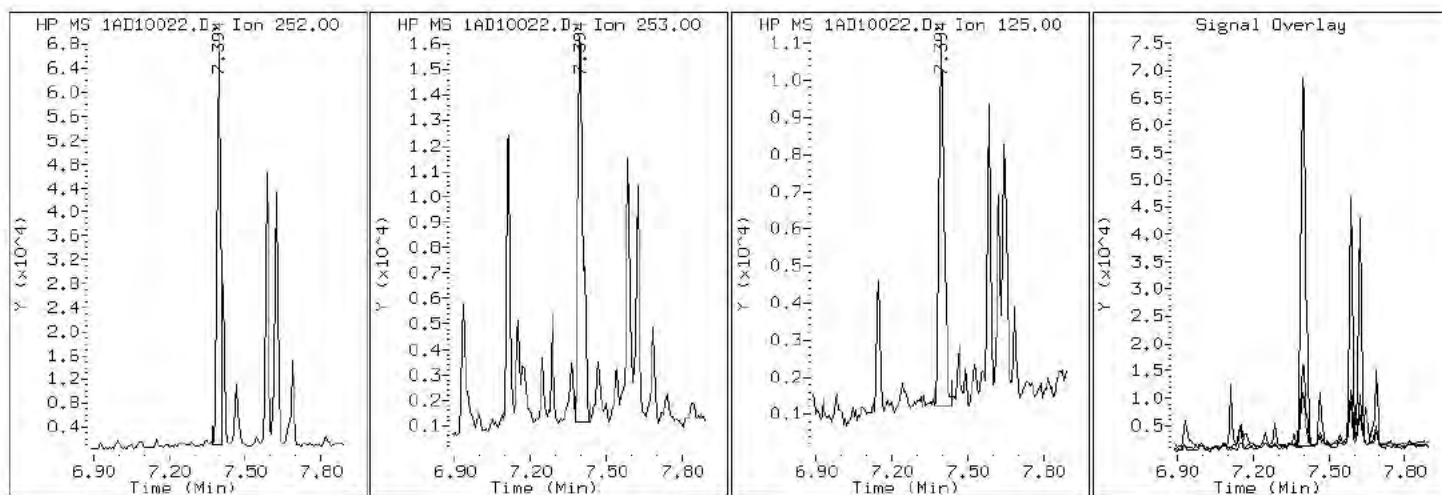
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

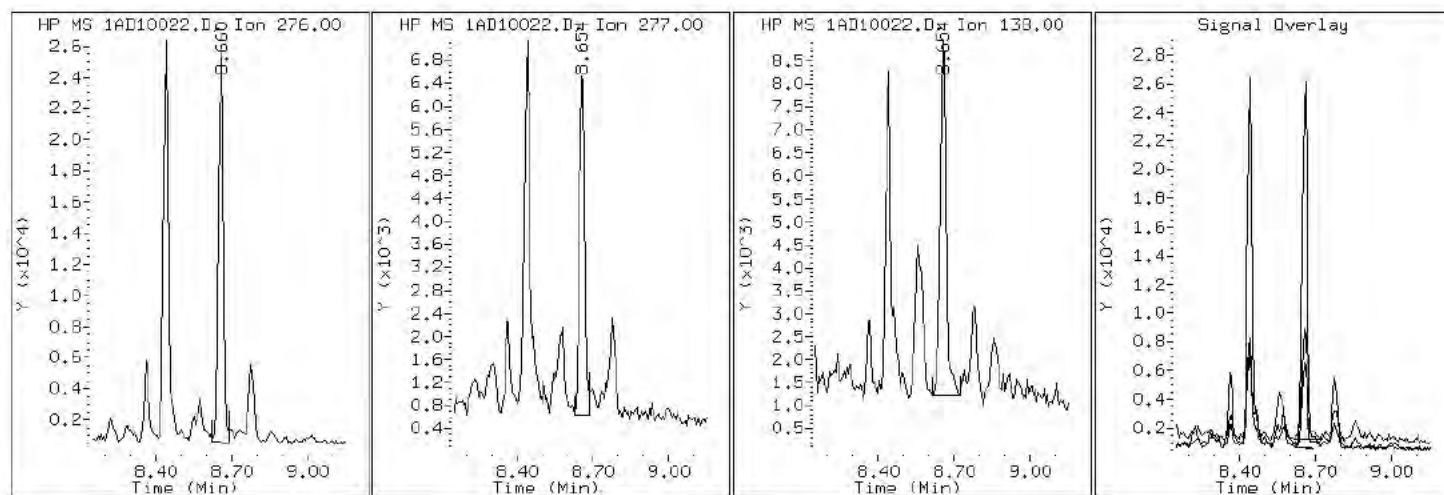
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

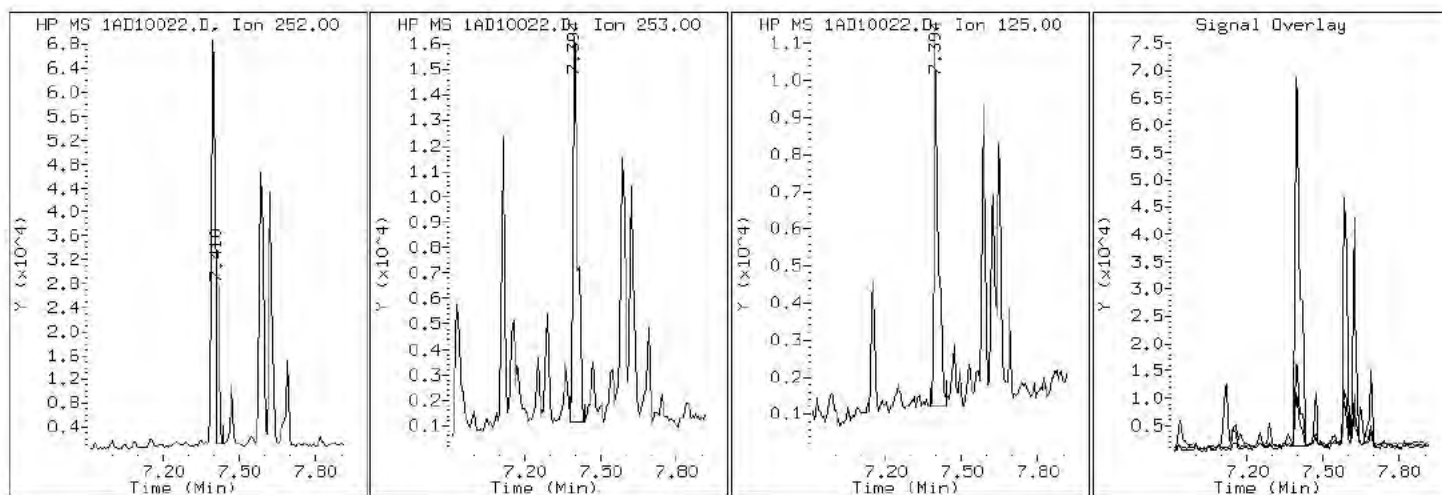
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

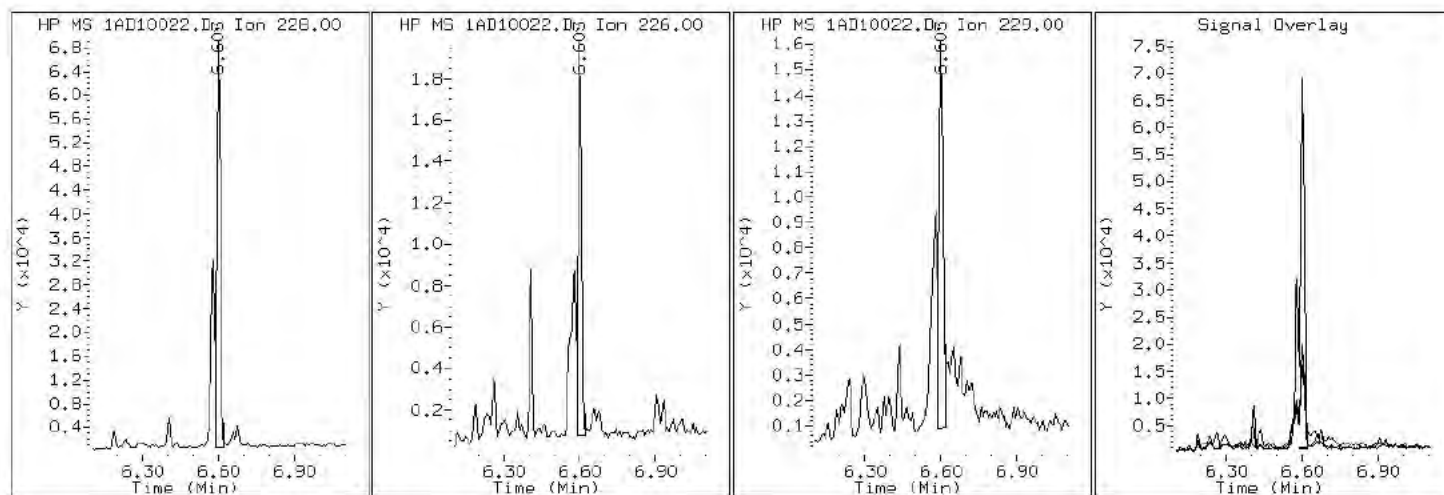
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

19 Chrysene



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

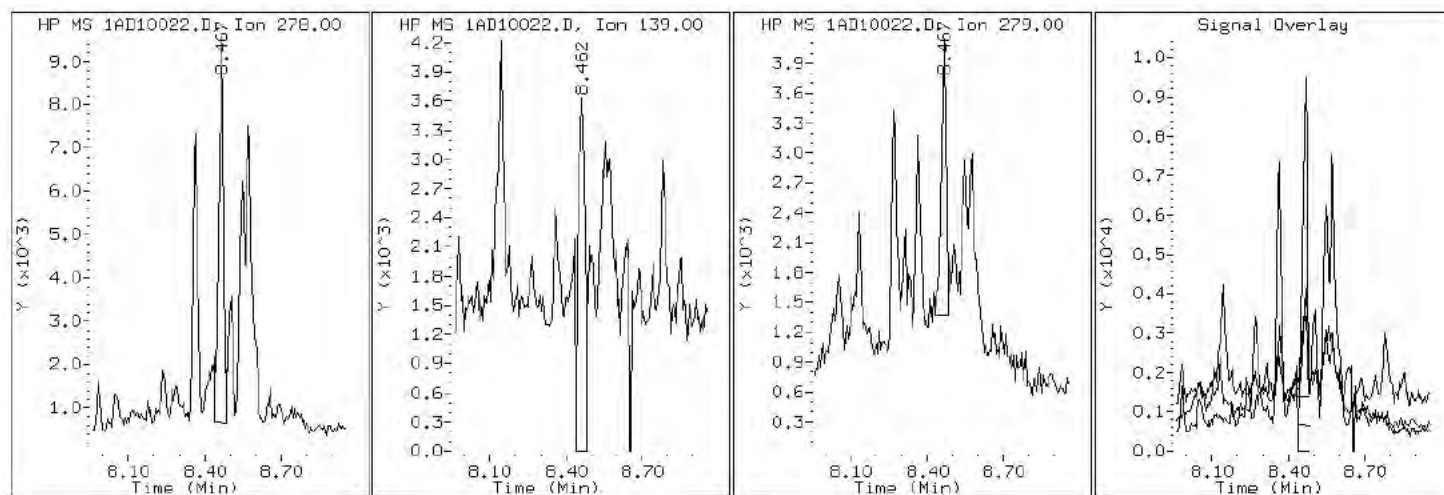
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

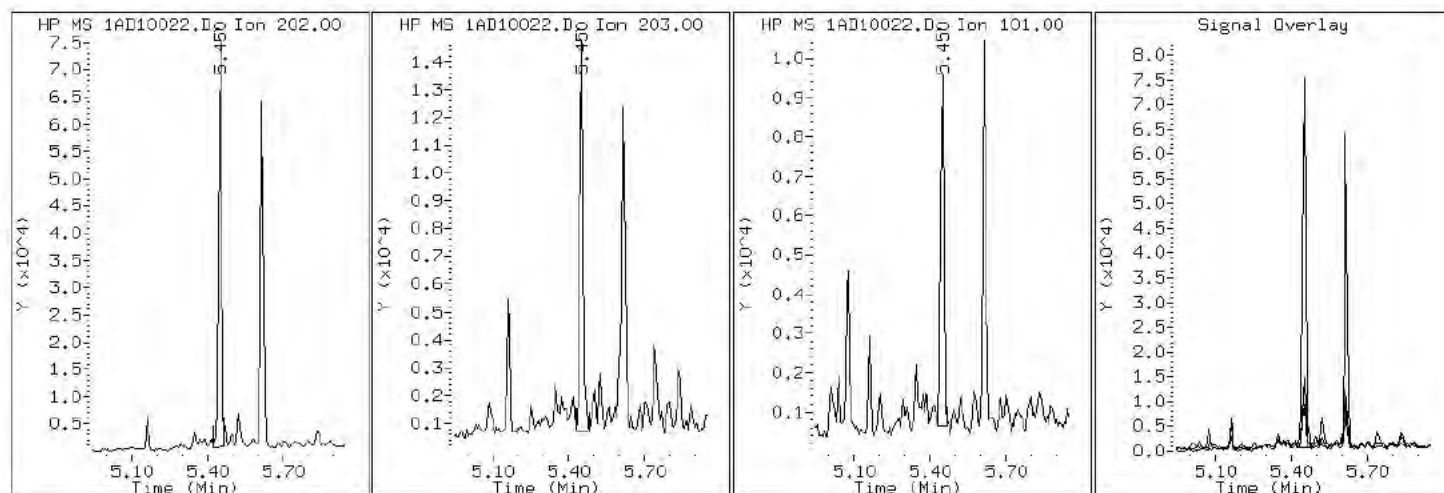
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

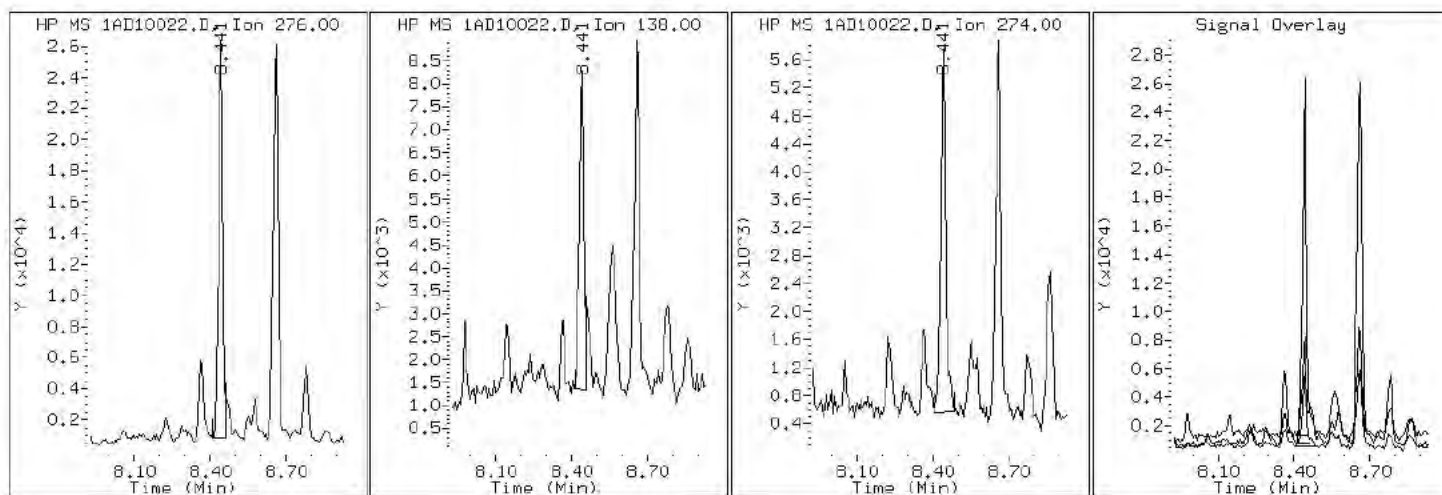
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

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



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

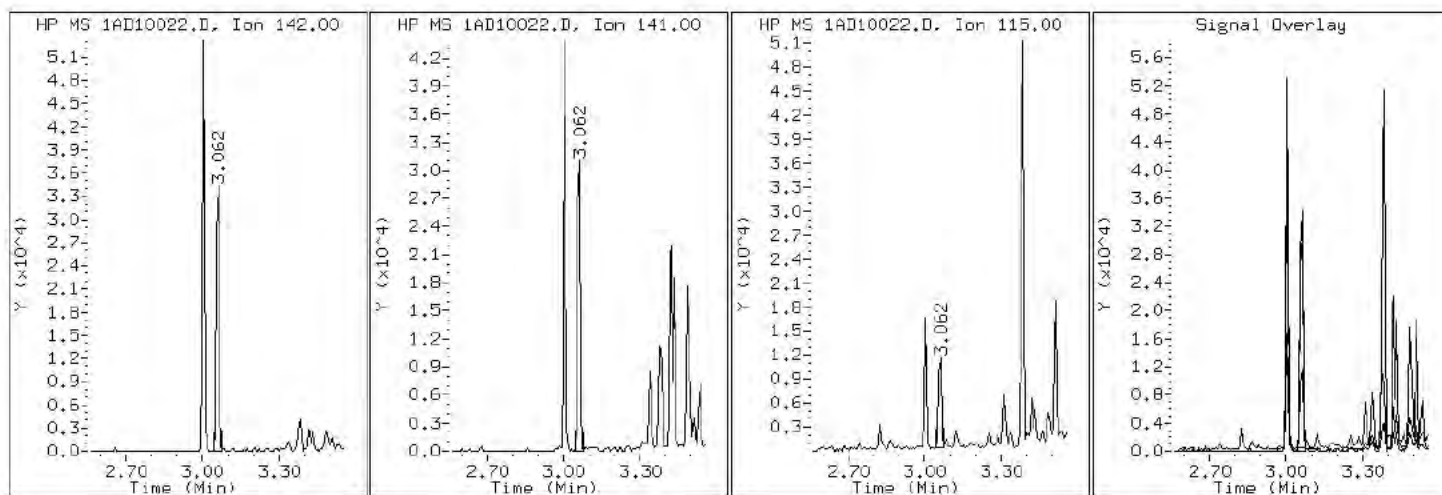
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

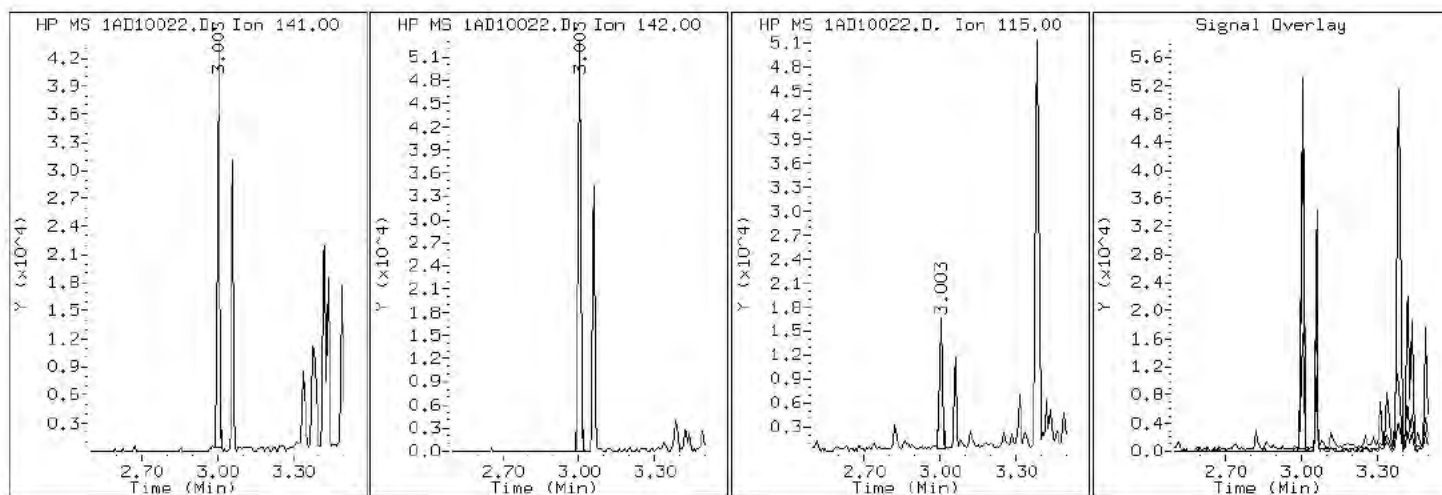
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

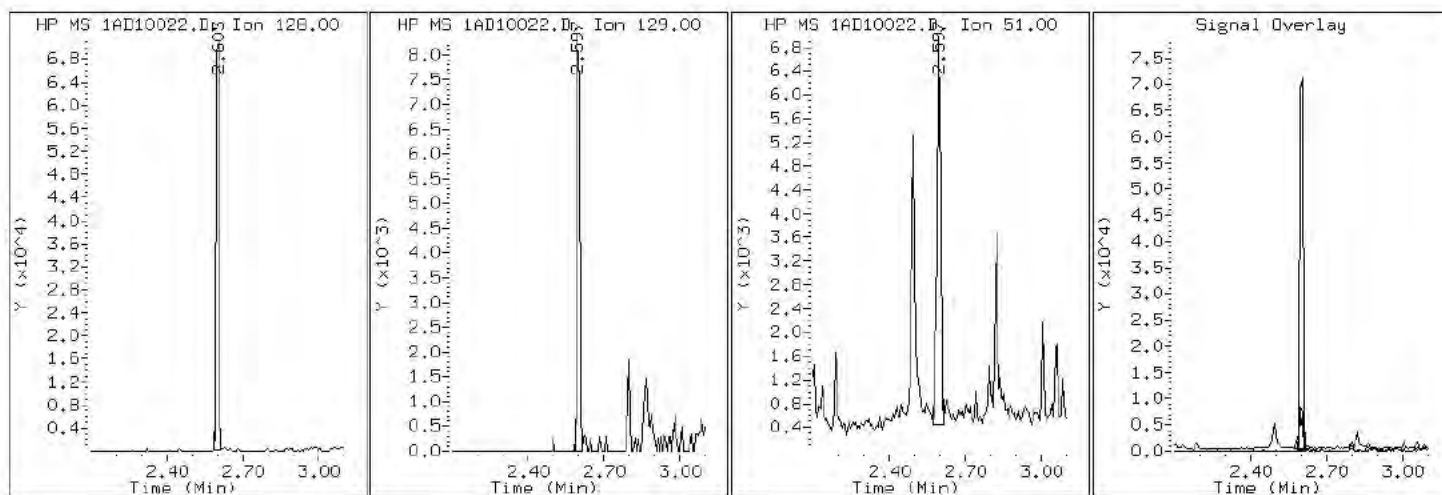
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

2 Naphthalene



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

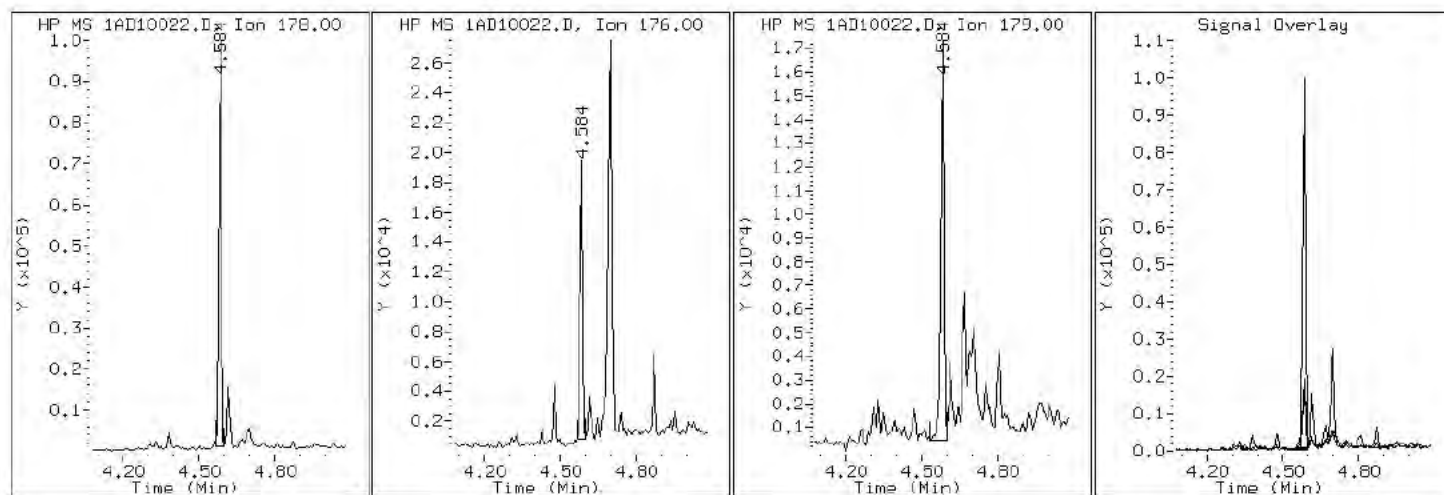
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10022.D

Date: 10-APR-2013 17:28

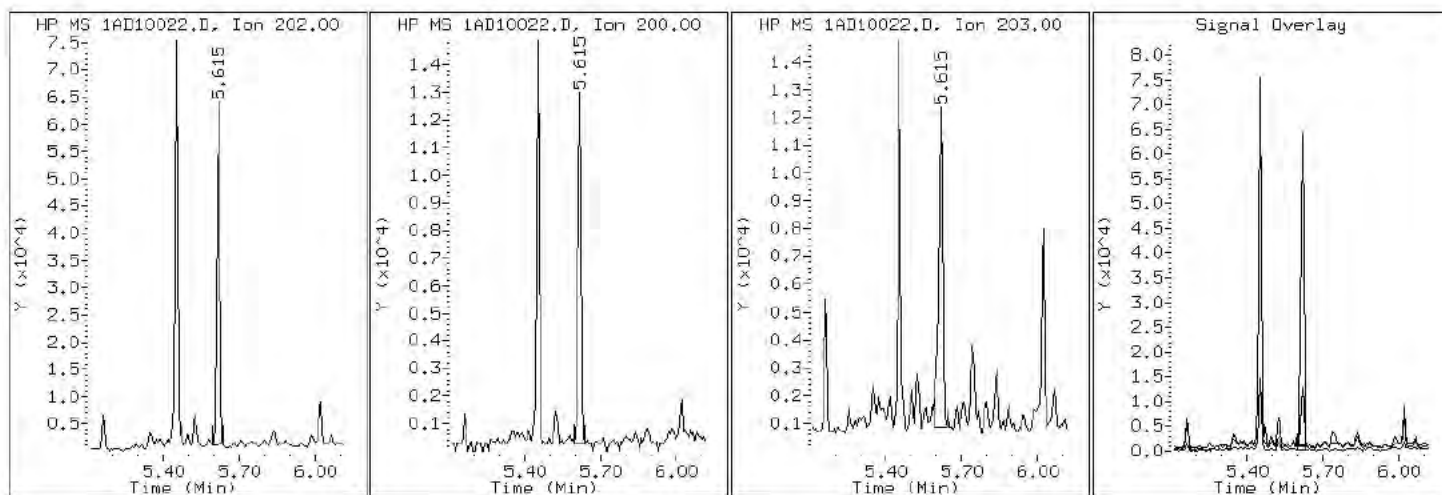
Client ID: FM0207B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-10-a

Operator: SCC

16 Pyrene

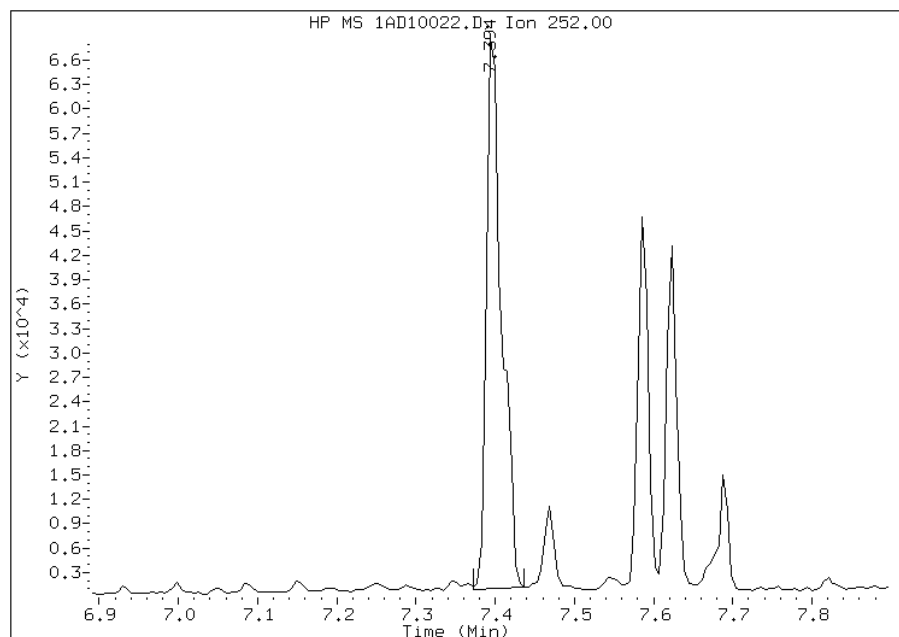


Manual Integration Report

Data File: 1AD10022.D
Inj. Date and Time: 10-APR-2013 17:28
Instrument ID: BSMA5973.i
Client ID: FM0207B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

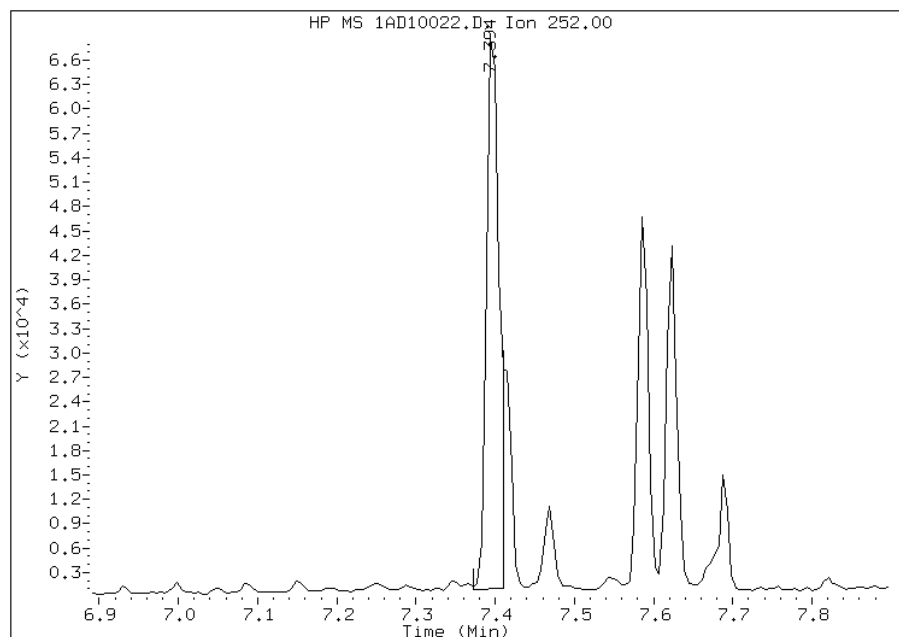
Processing Integration Results

RT: 7.39
Response: 89176
Amount: 2
Conc: 148



Manual Integration Results

RT: 7.39
Response: 74743
Amount: 2
Conc: 124



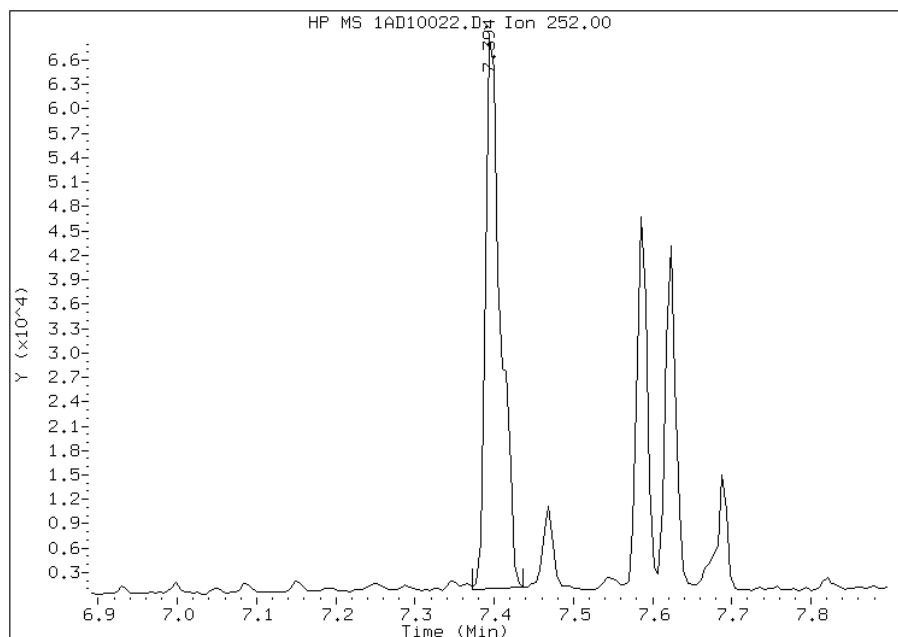
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:17
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10022.D
Inj. Date and Time: 10-APR-2013 17:28
Instrument ID: BSMA5973.i
Client ID: FM0207B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

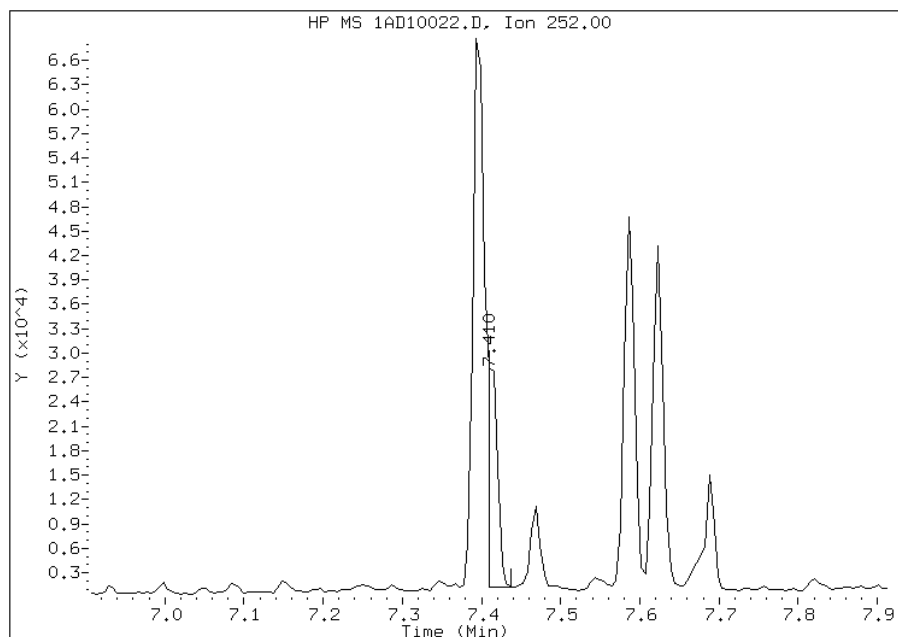
Processing Integration Results

RT: 7.39
Response: 89176
Amount: 2
Conc: 133



Manual Integration Results

RT: 7.41
Response: 22840
Amount: 0
Conc: 34



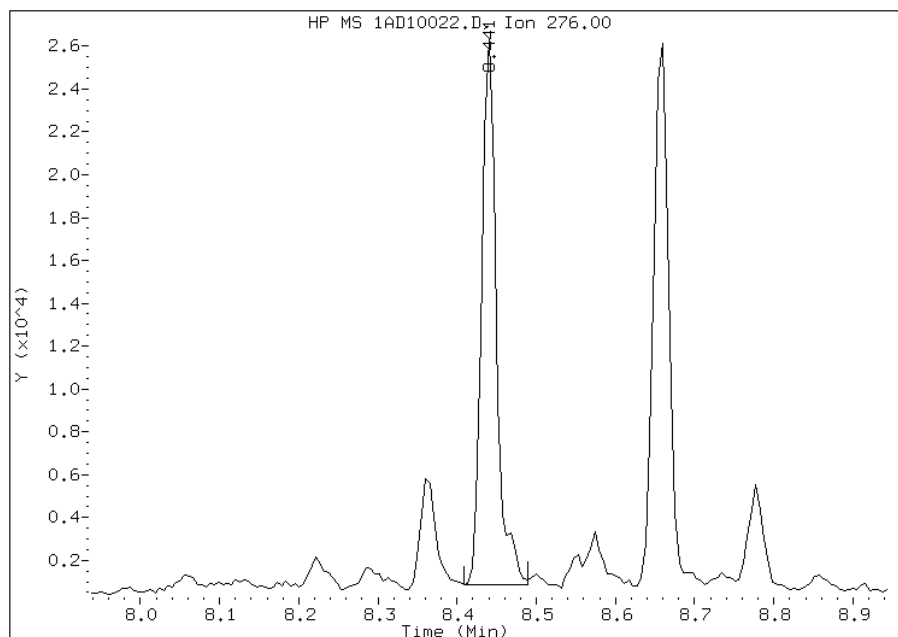
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10022.D
Inj. Date and Time: 10-APR-2013 17:28
Instrument ID: BSMA5973.i
Client ID: FM0207B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

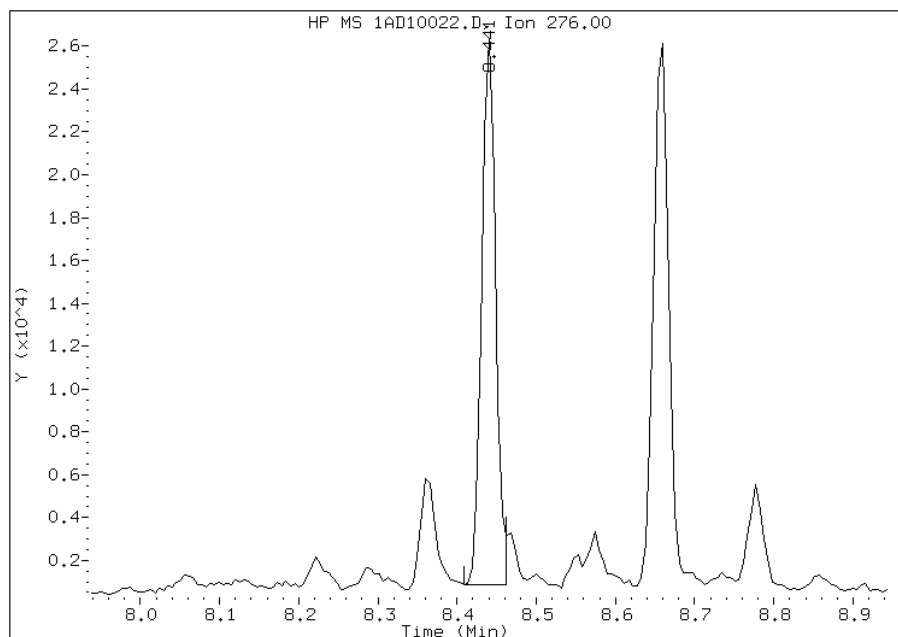
Processing Integration Results

RT: 8.44
Response: 32614
Amount: 1
Conc: 89



Manual Integration Results

RT: 8.44
Response: 30896
Amount: 1
Conc: 86



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:17
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>FM0207C-CS</u>	Lab Sample ID: <u>680-88913-11</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10023.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 14:42</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.21(g)</u>	Date Analyzed: <u>04/10/2013 17:43</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>20.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	49	U	49	6.2
120-12-7	Anthracene	10	U	10	5.2
56-55-3	Benzo[a]anthracene	70		9.9	4.8
50-32-8	Benzo[a]pyrene	71		13	6.4
205-99-2	Benzo[b]fluoranthene	120		15	7.5
191-24-2	Benzo[g,h,i]perylene	62		25	5.4
207-08-9	Benzo[k]fluoranthene	32		9.9	4.4
218-01-9	Chrysene	91		11	5.5
53-70-3	Dibenz(a,h)anthracene	21	J	25	5.1
206-44-0	Fluoranthene	87		25	4.9
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	88		25	8.7
90-12-0	1-Methylnaphthalene	46	J	49	5.4
91-57-6	2-Methylnaphthalene	48	J	49	8.7
91-20-3	Naphthalene	58		49	5.4
85-01-8	Phenanthrene	78		9.9	4.8
129-00-0	Pyrene	88		25	4.6

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\1A041013.b\1AD10023.D
Lab Smp Id: 680-88913-A-11-A Client Smp ID: FM0207C-CS
Inj Date : 10-APR-2013 17:43
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88913-a-11-a
Misc Info : 680-88913-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10023.D
Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.210	Weight Extracted
M	19.958	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.592	2.584	(1.000)		1599516	40.0000	
* 6 Acenaphthene-d10	164		3.617	3.615	(1.000)		855087	40.0000	
* 10 Phenanthrene-d10	188		4.573	4.571	(1.000)		1305250	40.0000	
\$ 14 o-Terphenyl	230		4.873	4.870	(1.065)		166140	6.02498	494.8893
* 18 Chrysene-d12	240		6.587	6.585	(1.000)		1287343	40.0000	
* 23 Perylene-d12	264		7.687	7.664	(1.000)		1575536	40.0000	
2 Naphthalene	128		2.597	2.600	(1.002)		27498	0.70191	57.6546
3 2-Methylnaphthalene	141		3.003	3.001	(1.159)		14874	0.58425	47.9900
4 1-Methylnaphthalene	142		3.062	3.060	(1.181)		13345	0.55867	45.8886
11 Phenanthrene	178		4.584	4.582	(1.002)		41373	0.95070	78.0900
13 Carbazole	167		4.750	4.747	(1.039)		4644	0.15808	12.9842
15 Fluoranthene	202		5.449	5.447	(1.192)		59947	1.06069	87.1245
16 Pyrene	202		5.615	5.613	(0.852)		53271	1.07386	88.2068
17 Benzo(a)anthracene	228		6.582	6.574	(0.999)		36548	0.85110	69.9094

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
19 Chrysene	228	6.603	6.606	(1.002)	48719	1.11241	91.3726
20 Benzo(b)fluoranthene	252	7.399	7.391	(0.962)	70966	1.48548	122.0170(M)
21 Benzo(k)fluoranthene	252	7.415	7.413	(0.965)	20551	0.38732	31.8145(QM)
22 Benzo(a)pyrene	252	7.629	7.616	(0.992)	39480	0.86906	71.3839
24 Indeno(1,2,3-cd)pyrene	276	8.451	8.427	(1.099)	30558	1.07189	88.0447(M)
25 Dibenzo(a,h)anthracene	278	8.478	8.459	(1.103)	10178	0.25552	20.9886
26 Benzo(g,h,i)perylene	276	8.670	8.651	(1.128)	32487	0.75706	62.1846

QC Flag Legend

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

Data File: 1AD10023.D

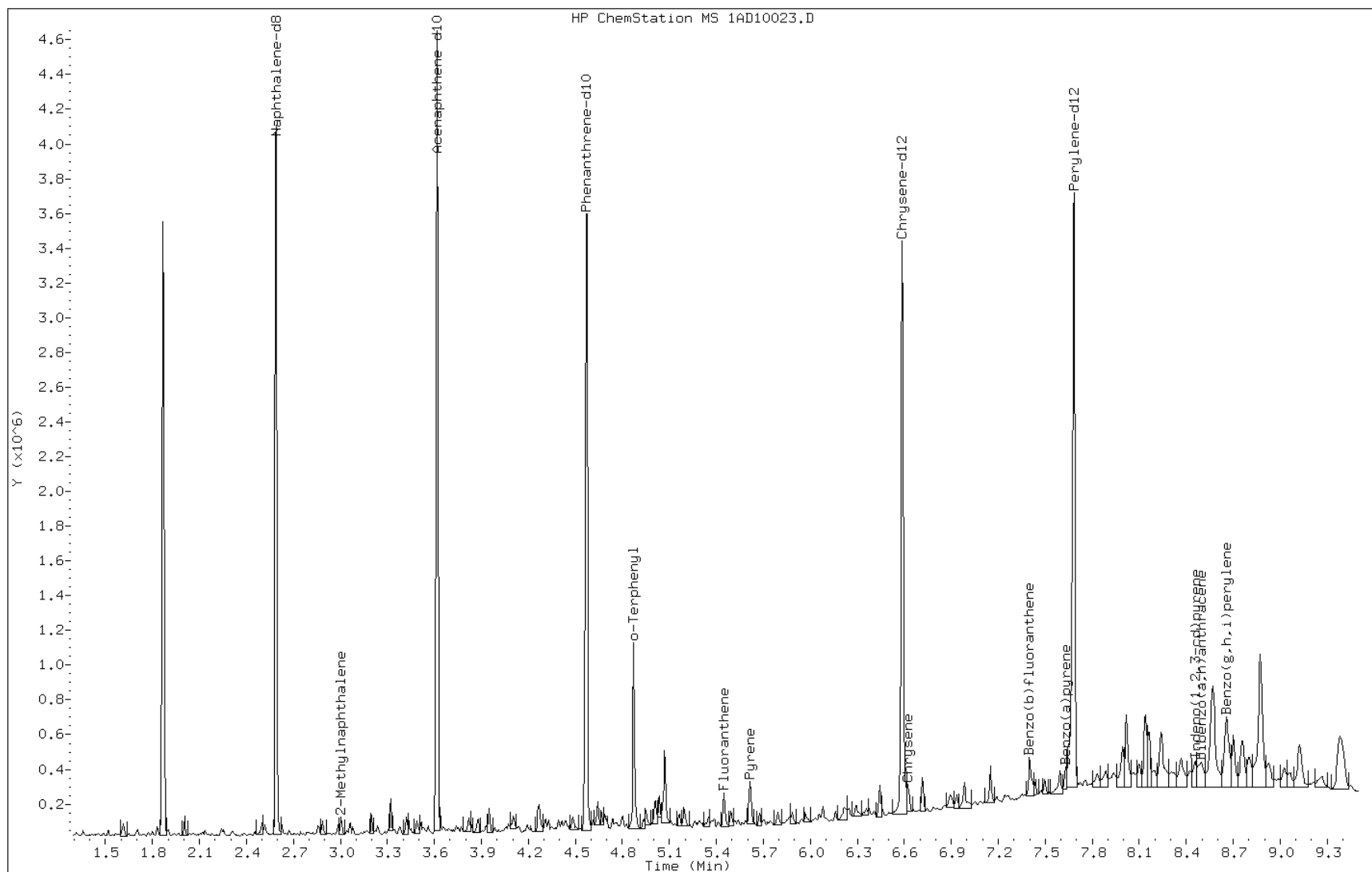
Date: 10-APR-2013 17:43

Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

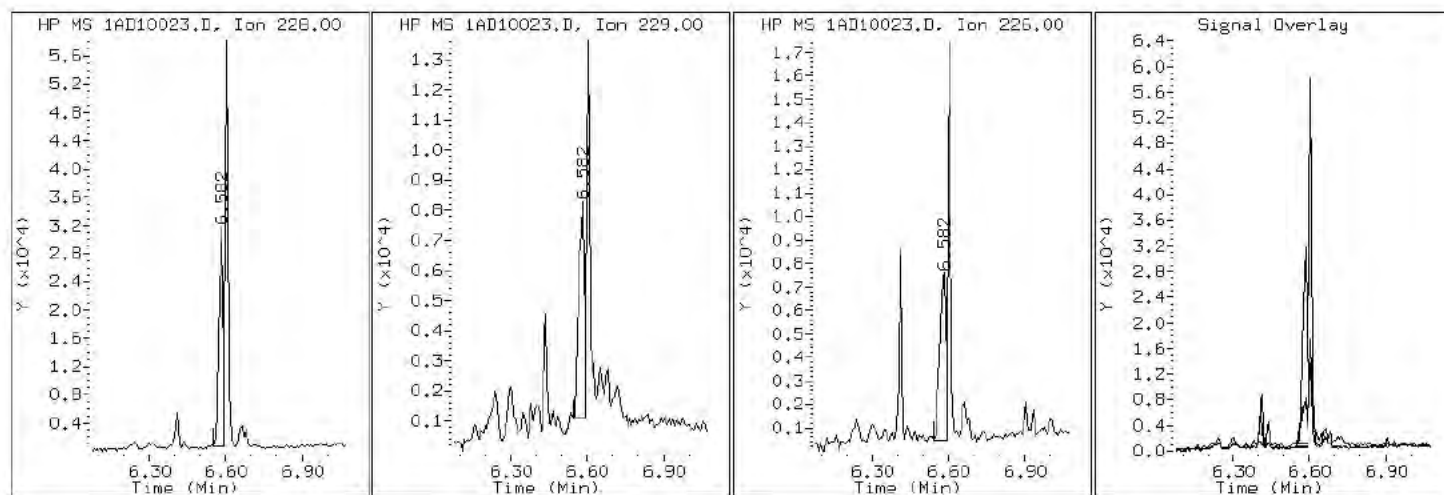
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

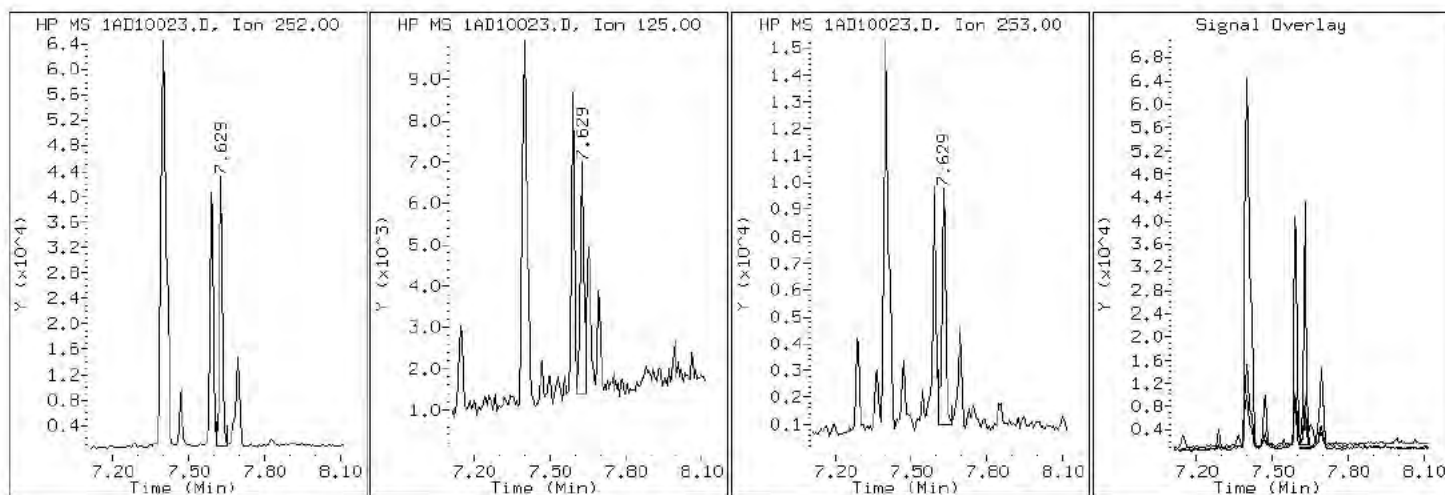
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

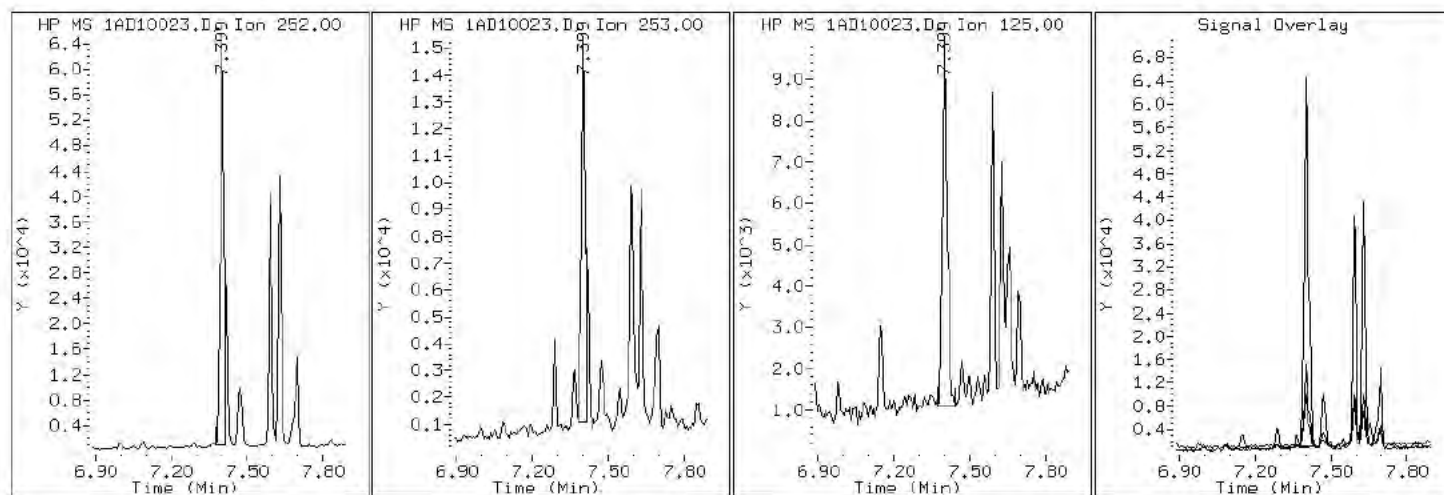
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

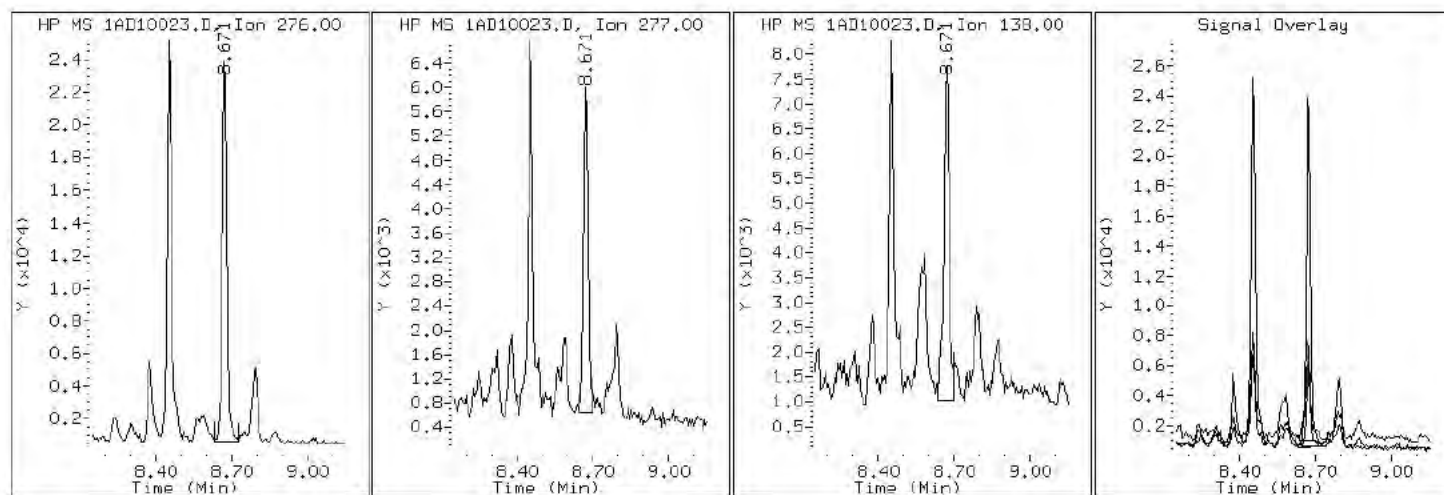
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

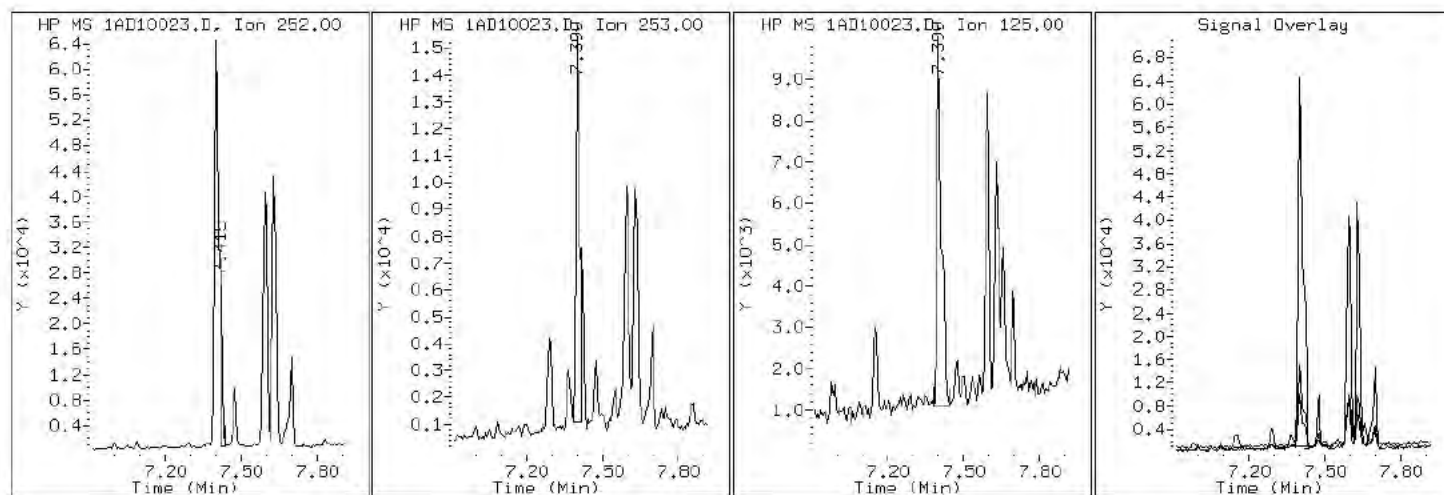
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

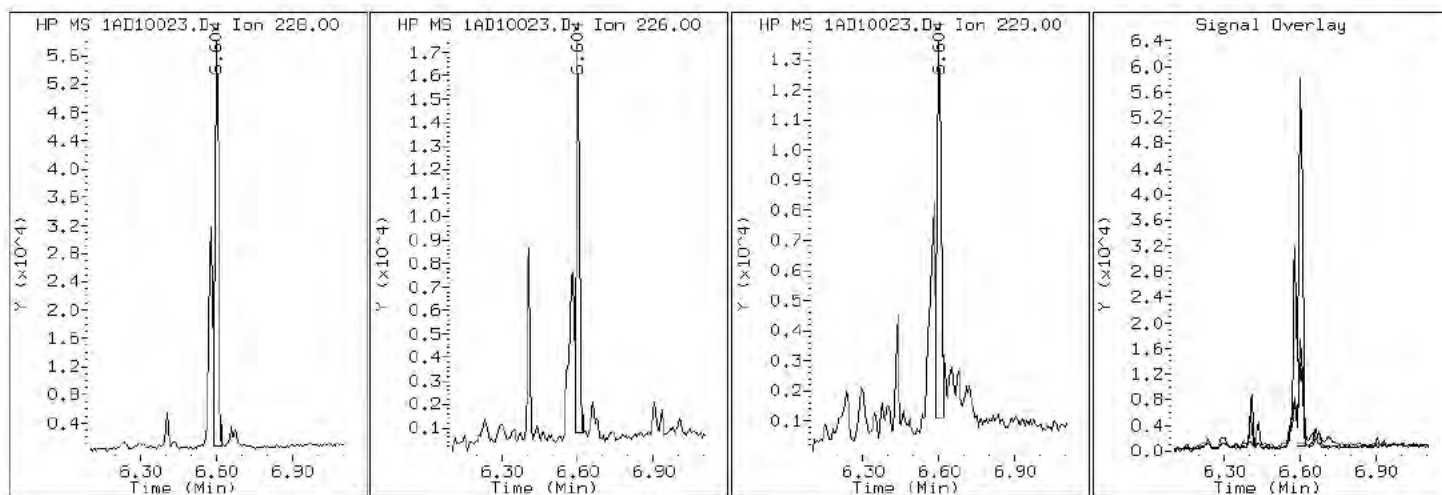
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

19 Chrysene



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

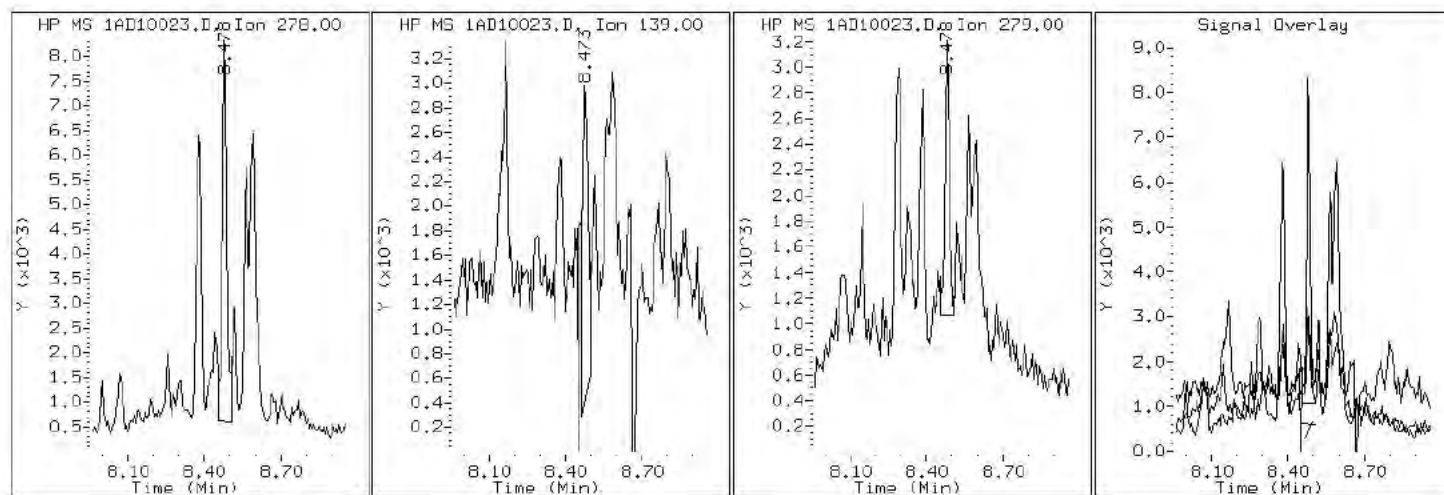
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

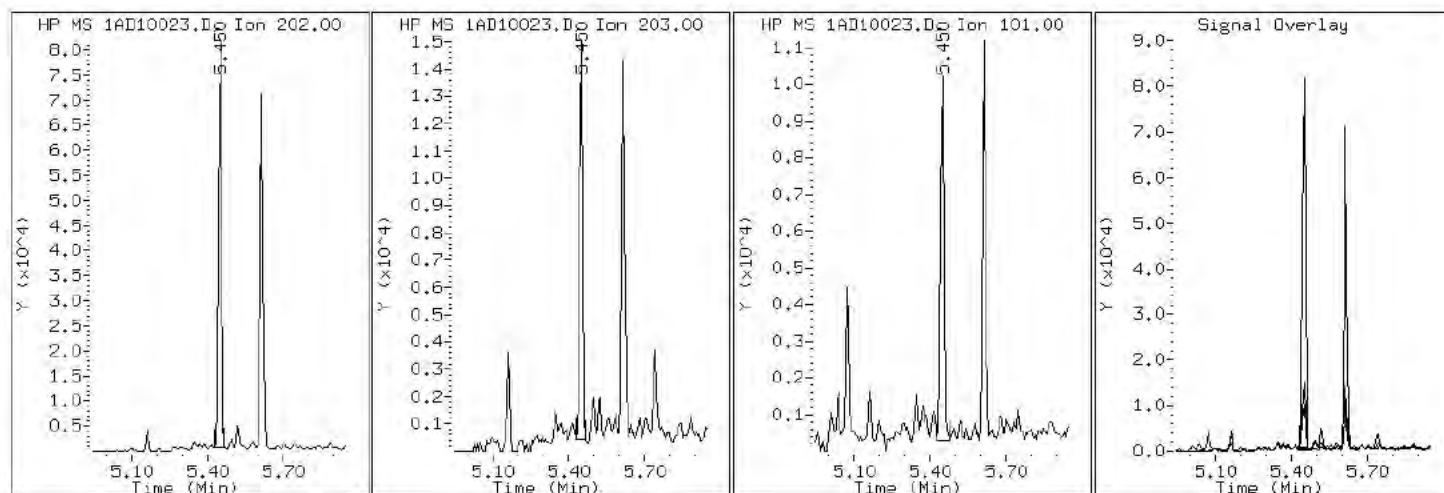
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

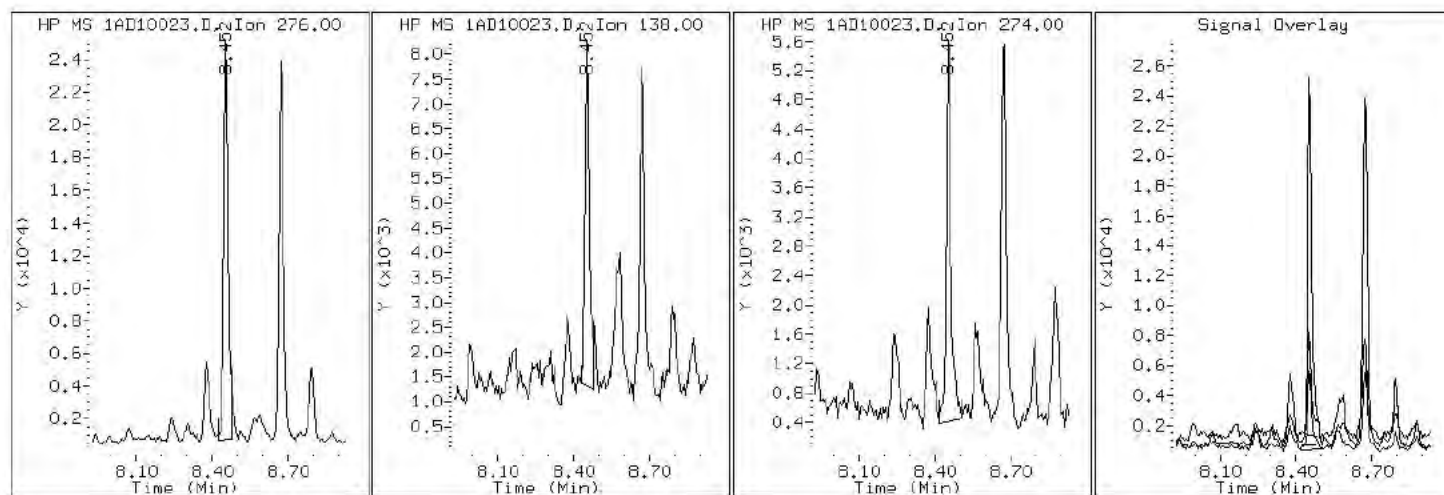
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

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



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

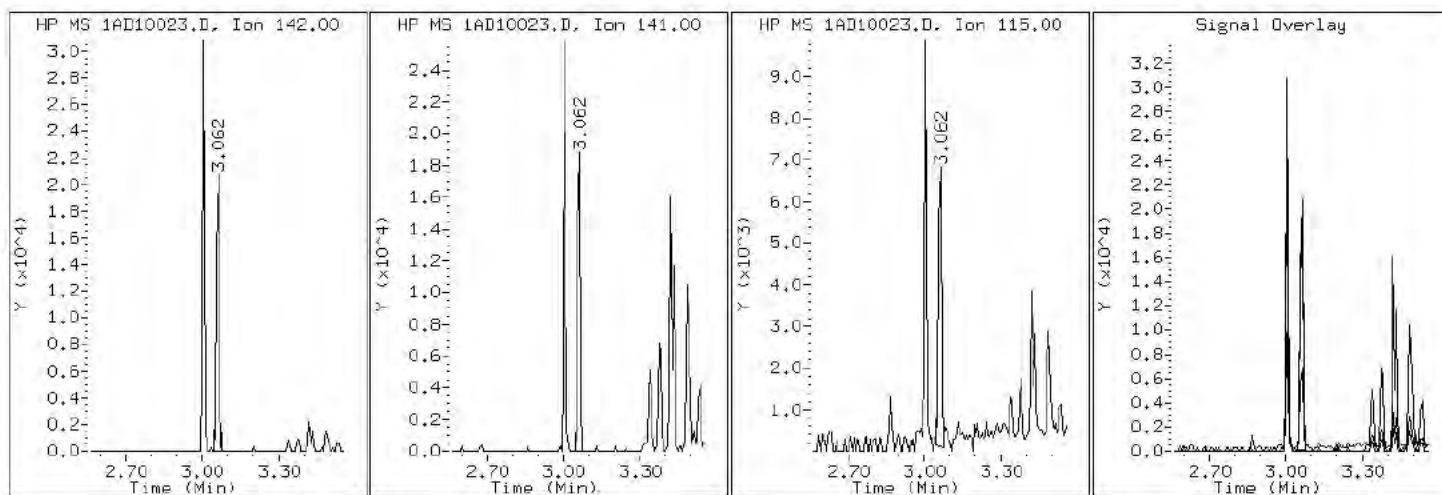
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

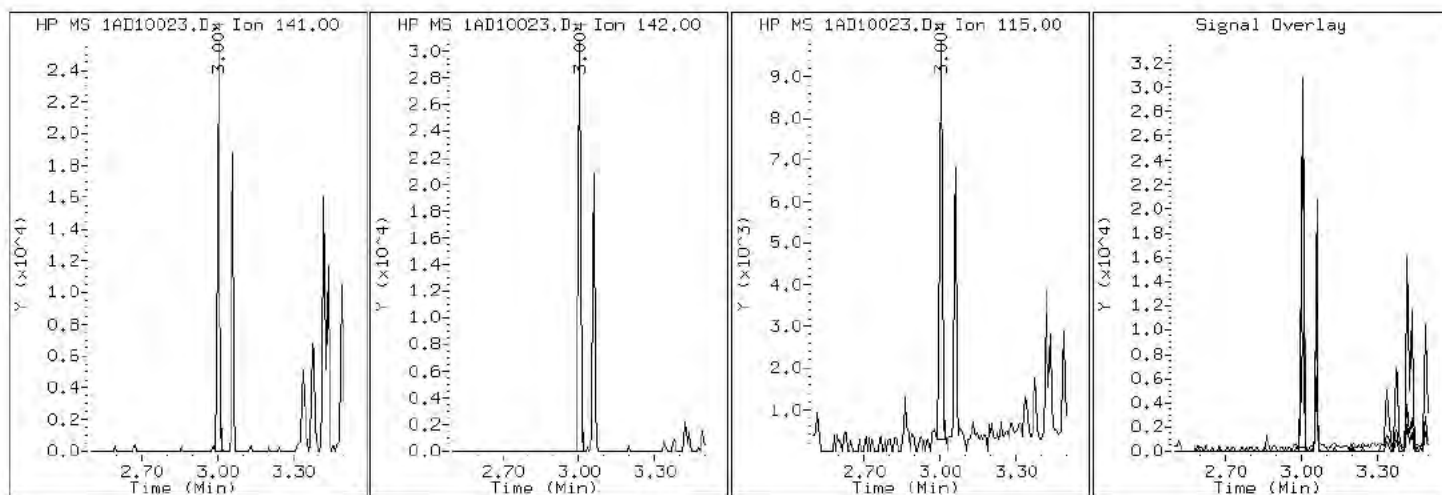
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

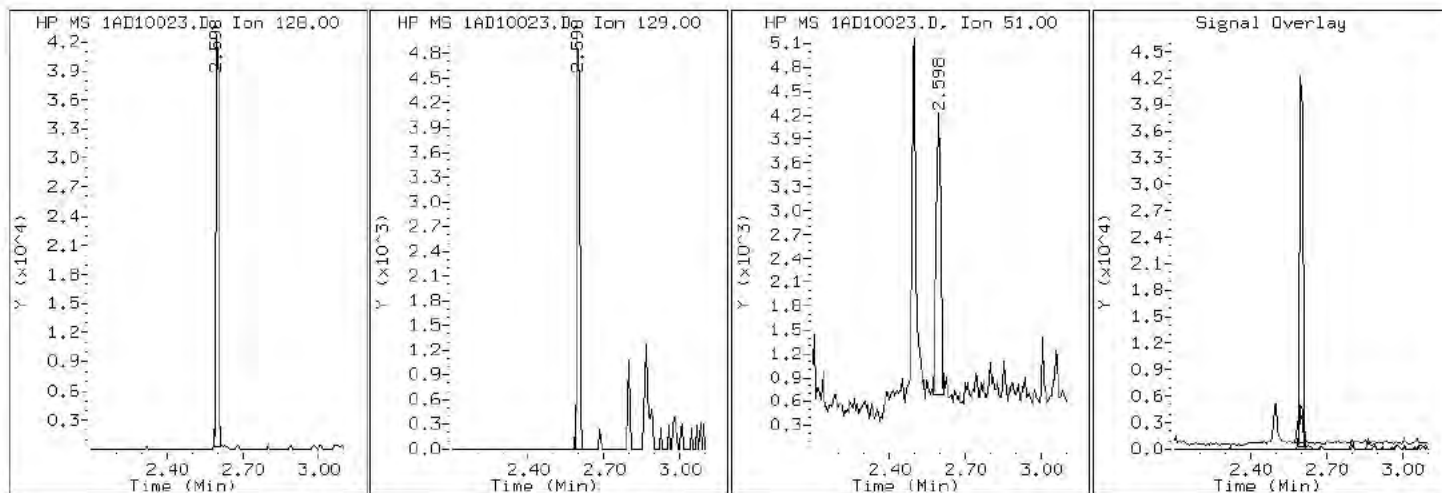
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

2 Naphthalene



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

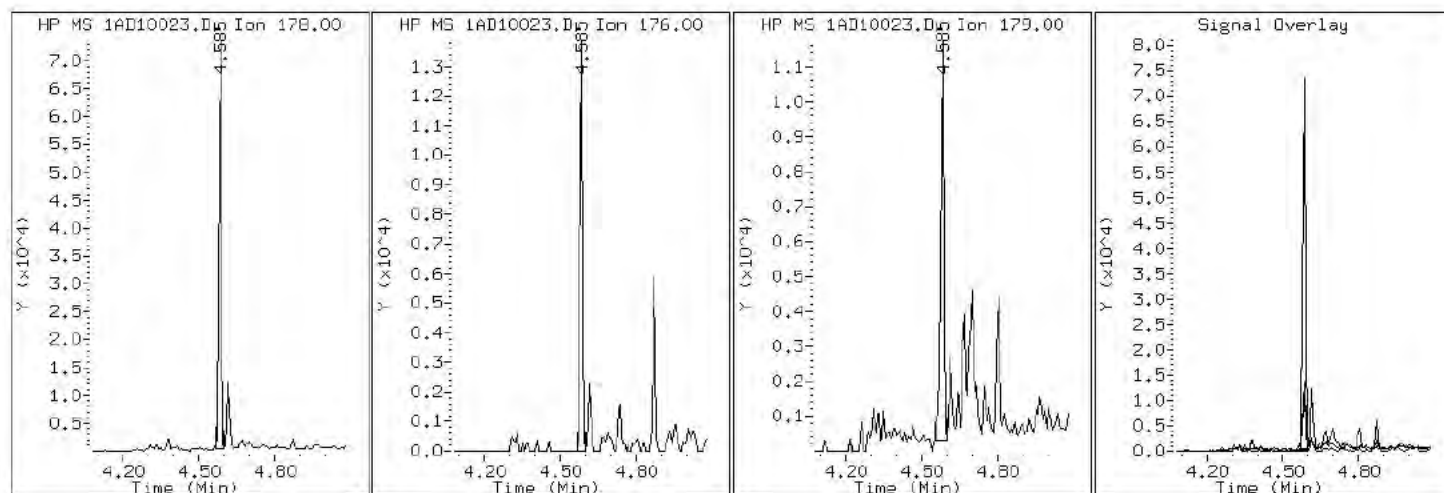
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10023.D

Date: 10-APR-2013 17:43

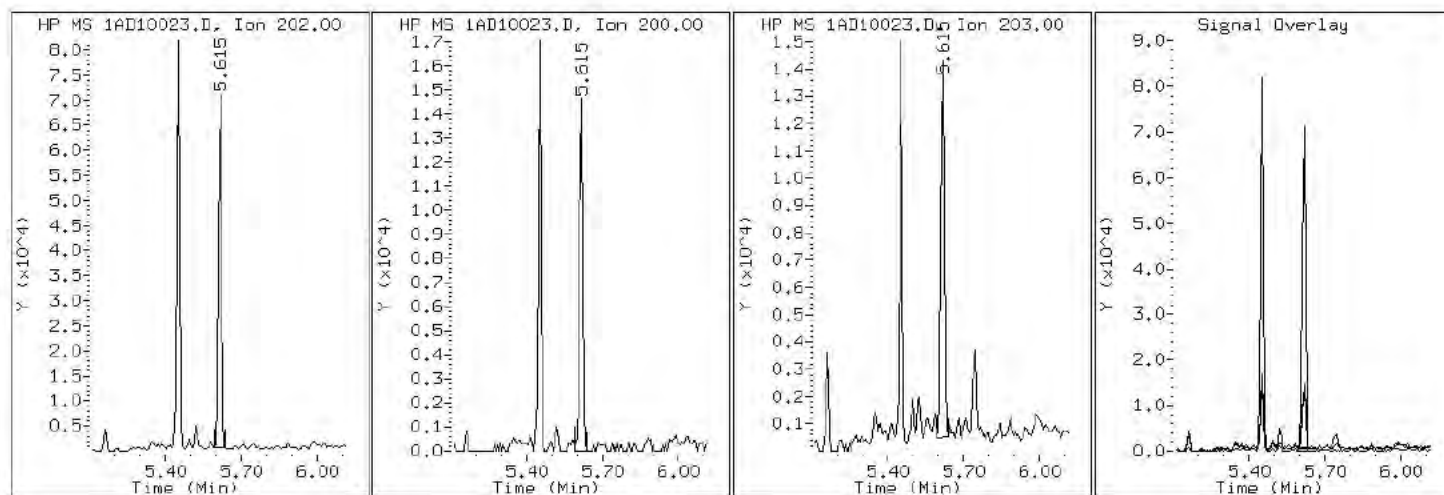
Client ID: FM0207C-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-11-a

Operator: SCC

16 Pyrene

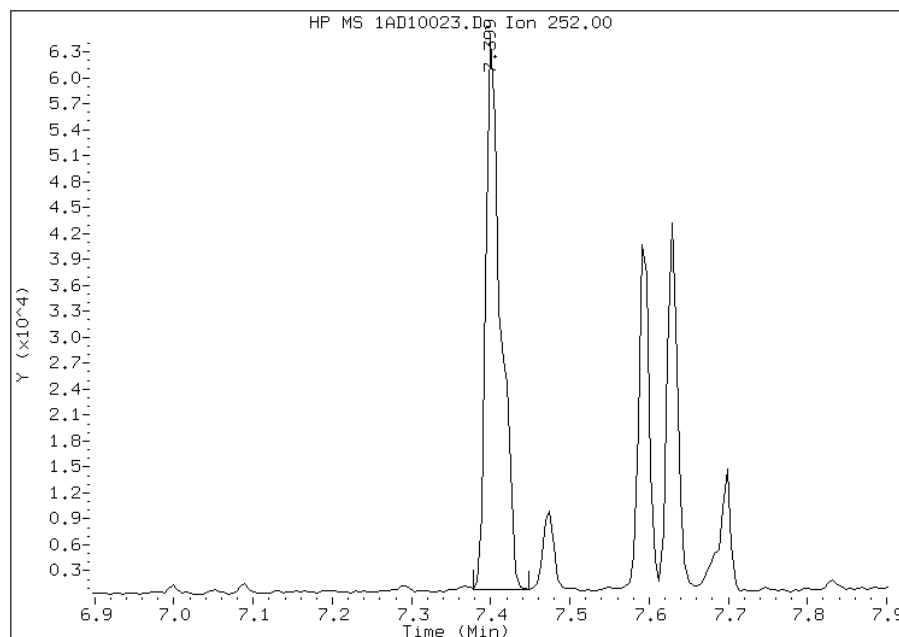


Manual Integration Report

Data File: 1AD10023.D
Inj. Date and Time: 10-APR-2013 17:43
Instrument ID: BSMA5973.i
Client ID: FM0207C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

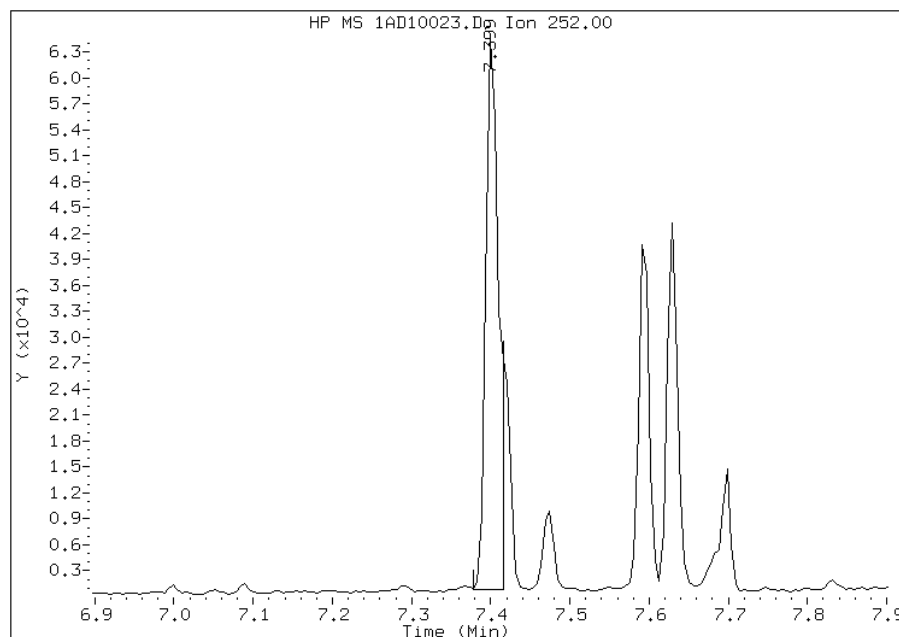
Processing Integration Results

RT: 7.40
Response: 82747
Amount: 2
Conc: 142



Manual Integration Results

RT: 7.40
Response: 70966
Amount: 1
Conc: 122



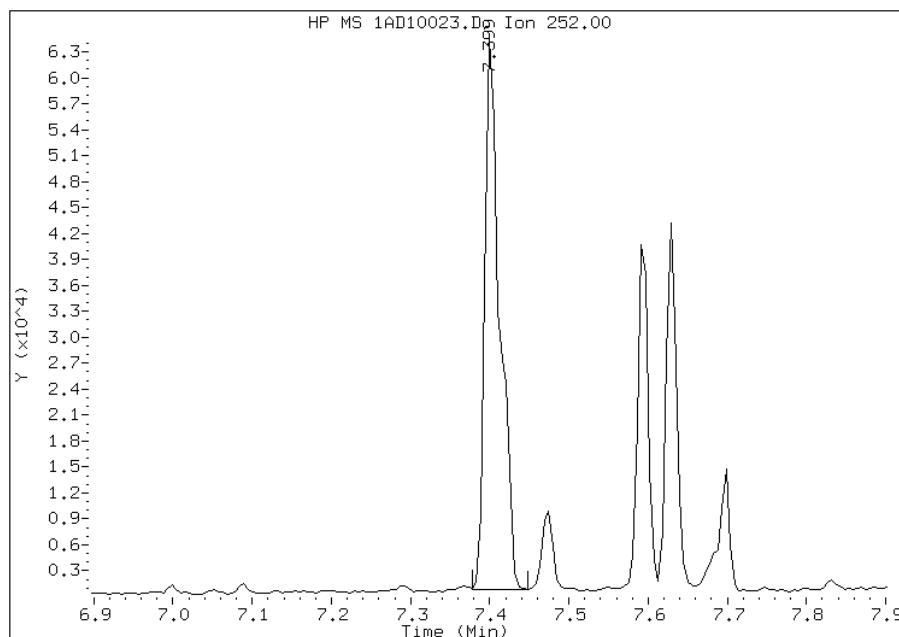
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10023.D
Inj. Date and Time: 10-APR-2013 17:43
Instrument ID: BSMA5973.i
Client ID: FM0207C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

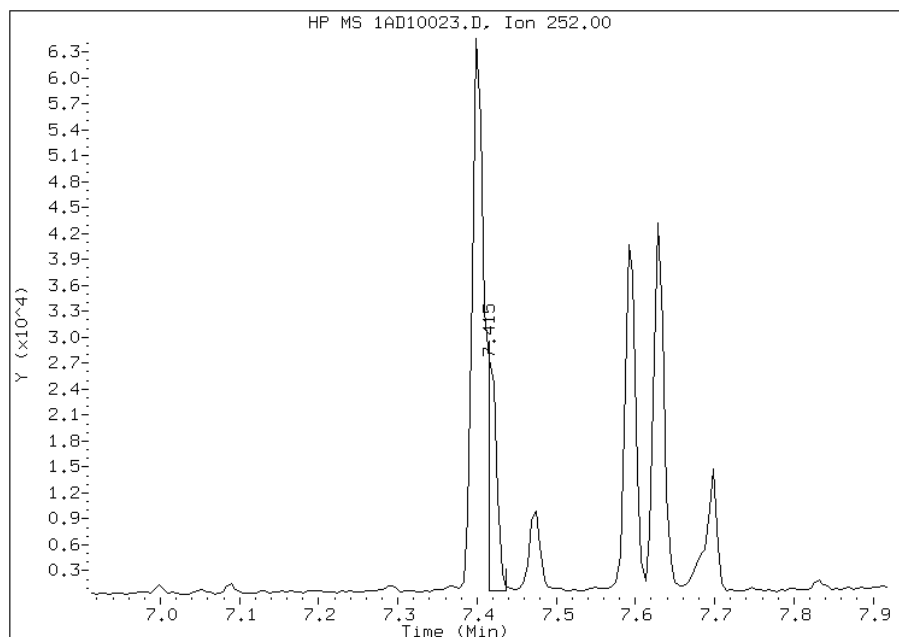
Processing Integration Results

RT: 7.40
Response: 82747
Amount: 2
Conc: 128



Manual Integration Results

RT: 7.42
Response: 20551
Amount: 0
Conc: 32



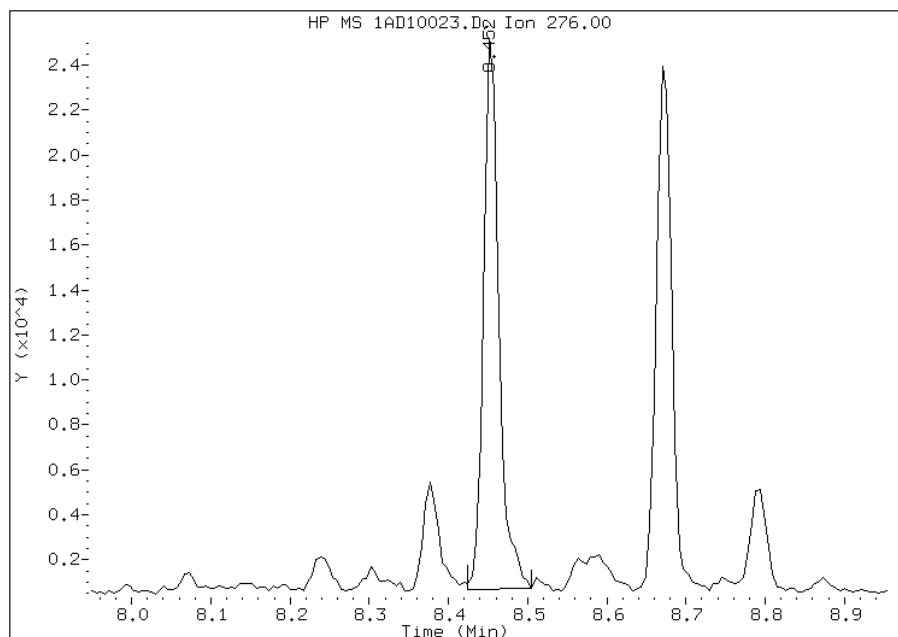
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10023.D
Inj. Date and Time: 10-APR-2013 17:43
Instrument ID: BSMA5973.i
Client ID: FM0207C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

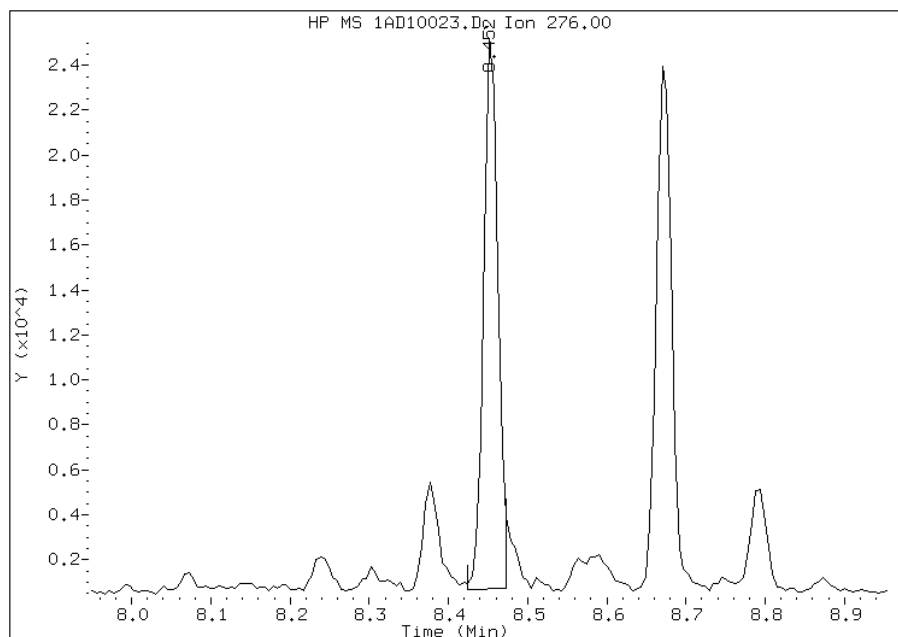
Processing Integration Results

RT: 8.45
Response: 32442
Amount: 1
Conc: 91



Manual Integration Results

RT: 8.45
Response: 30558
Amount: 1
Conc: 88



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>FM0207D-CS</u>	Lab Sample ID: <u>680-88913-12</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10024.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 14:51</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>14.99(g)</u>	Date Analyzed: <u>04/10/2013 17:58</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>22.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	52	U	52	6.5
120-12-7	Anthracene	11	U	11	5.4
56-55-3	Benzo[a]anthracene	69		10	5.0
50-32-8	Benzo[a]pyrene	70		13	6.7
205-99-2	Benzo[b]fluoranthene	110		16	7.9
191-24-2	Benzo[g,h,i]perylene	59		26	5.7
207-08-9	Benzo[k]fluoranthene	37		10	4.7
218-01-9	Chrysene	86		12	5.8
53-70-3	Dibenz(a,h)anthracene	21	J	26	5.3
206-44-0	Fluoranthene	88		26	5.2
86-73-7	Fluorene	26	U	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	87		26	9.2
90-12-0	1-Methylnaphthalene	45	J	52	5.7
91-57-6	2-Methylnaphthalene	46	J	52	9.2
91-20-3	Naphthalene	57		52	5.7
85-01-8	Phenanthrene	77		10	5.0
129-00-0	Pyrene	88		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10024.D
 Lab Smp Id: 680-88913-A-12-A Client Smp ID: FM0207D-CS
 Inj Date : 10-APR-2013 17:58
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88913-a-12-a
 Misc Info : 680-88913-A-12-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10024.D
 Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
 Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	22.566	% 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

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	2.592	2.584	(1.000)	1622627	40.0000		
*	6 Acenaphthene-d10	164	3.617	3.615	(1.000)	870576	40.0000		
*	10 Phenanthrene-d10	188	4.573	4.571	(1.000)	1347303	40.0000		
\$	14 o-Terphenyl	230	4.872	4.870	(1.065)	165293	5.78040	497.9969	
*	18 Chrysene-d12	240	6.587	6.585	(1.000)	1298834	40.0000		
*	23 Perylene-d12	264	7.676	7.664	(1.000)	1571021	40.0000		
	2 Naphthalene	128	2.602	2.600	(1.004)	24908	0.66031	56.8876	
	3 2-Methylnaphthalene	141	3.003	3.001	(1.159)	13103	0.53452	46.0504	
	4 1-Methylnaphthalene	142	3.062	3.060	(1.181)	11668	0.52129	44.9101	
	11 Phenanthrene	178	4.584	4.582	(1.002)	38974	0.89238	76.8812	
	13 Carbazole	167	4.749	4.747	(1.039)	5299	0.16752	14.4326	
	15 Fluoranthene	202	5.449	5.447	(1.192)	59197	1.01682	87.6017	
	16 Pyrene	202	5.615	5.613	(0.852)	51346	1.02590	88.3841	
	17 Benzo(a)anthracene	228	6.581	6.574	(0.999)	34937	0.80639	69.4727	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
19 Chrysene	228	6.603	6.606	(1.002)	44063	0.99719	85.9109
20 Benzo(b)fluoranthene	252	7.399	7.391	(0.964)	60070	1.26102	108.6400(M)
21 Benzo(k)fluoranthene	252	7.409	7.413	(0.965)	22643	0.42798	36.8713(QM)
22 Benzo(a)pyrene	252	7.623	7.616	(0.993)	36814	0.81270	70.0162
24 Indeno(1,2,3-cd)pyrene	276	8.440	8.427	(1.099)	27695	1.01071	87.0751(M)
25 Dibenzo(a,h)anthracene	278	8.467	8.459	(1.103)	9798	0.24669	21.2530
26 Benzo(g,h,i)perylene	276	8.659	8.651	(1.128)	29130	0.68078	58.6511

QC Flag Legend

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

Data File: 1AD10024.D

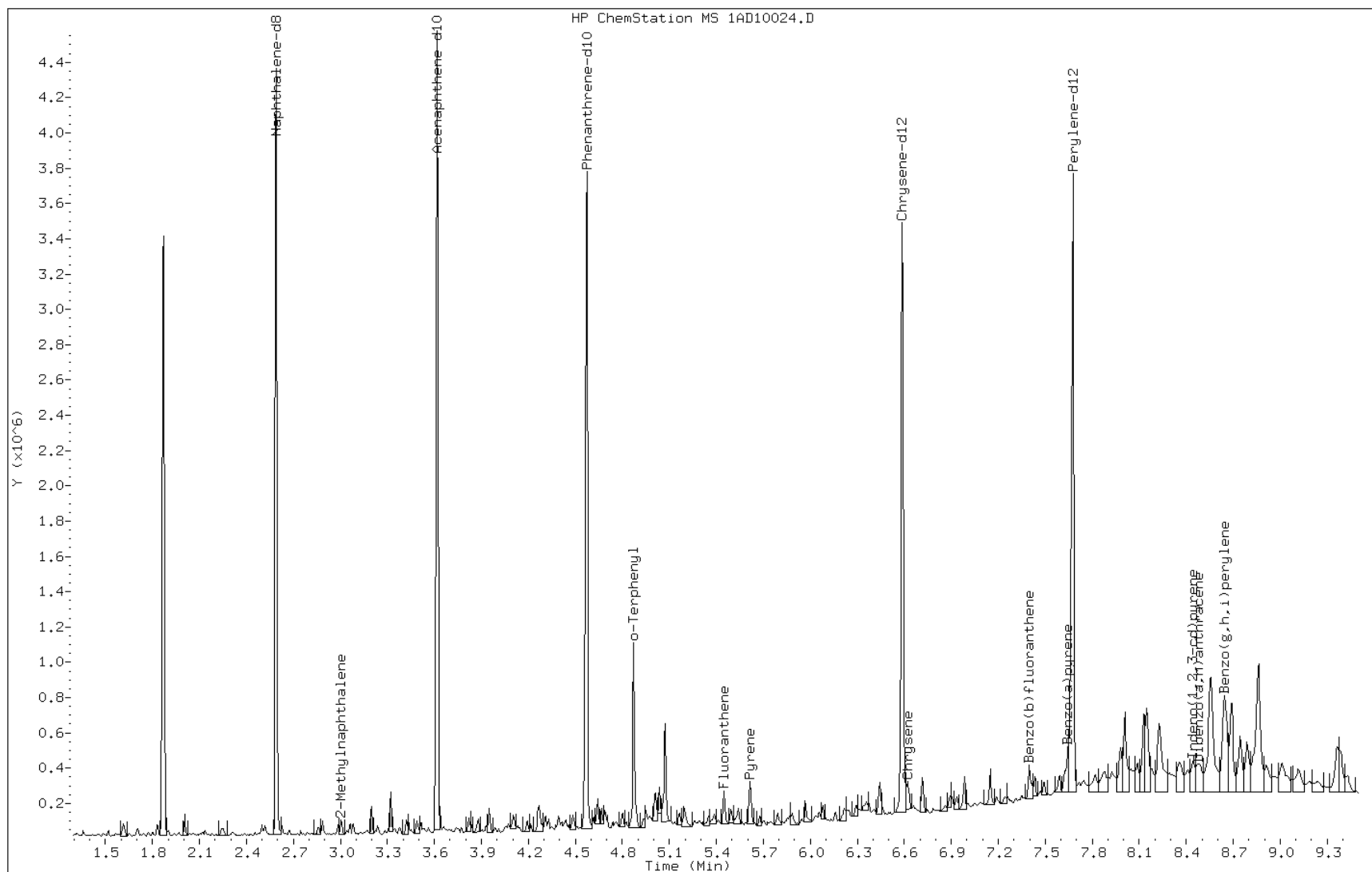
Date: 10-APR-2013 17:58

Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

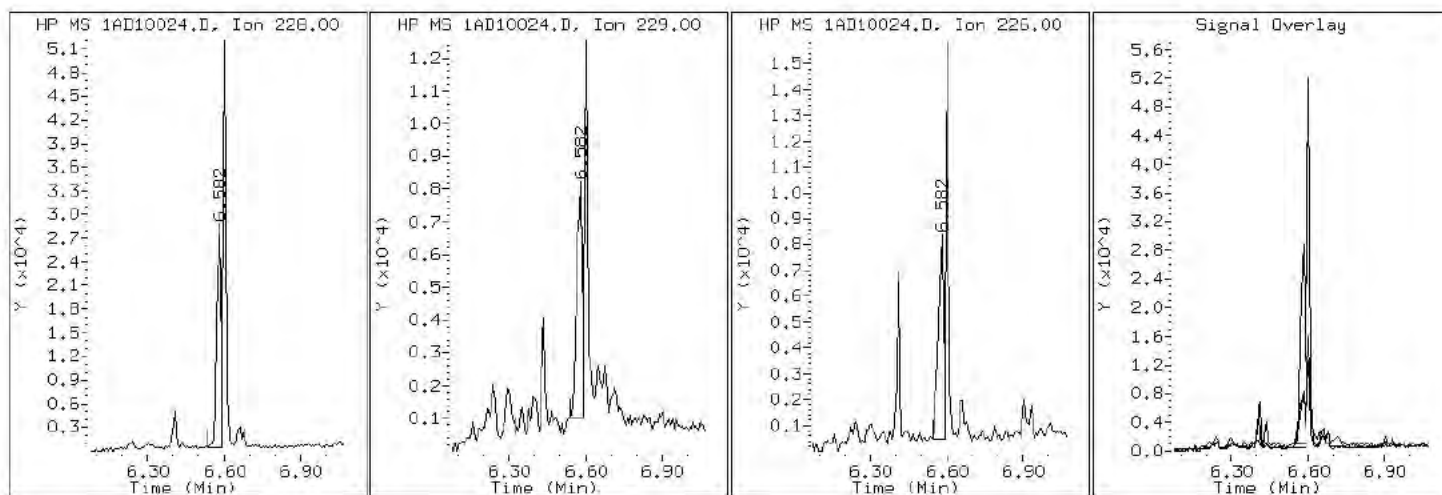
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

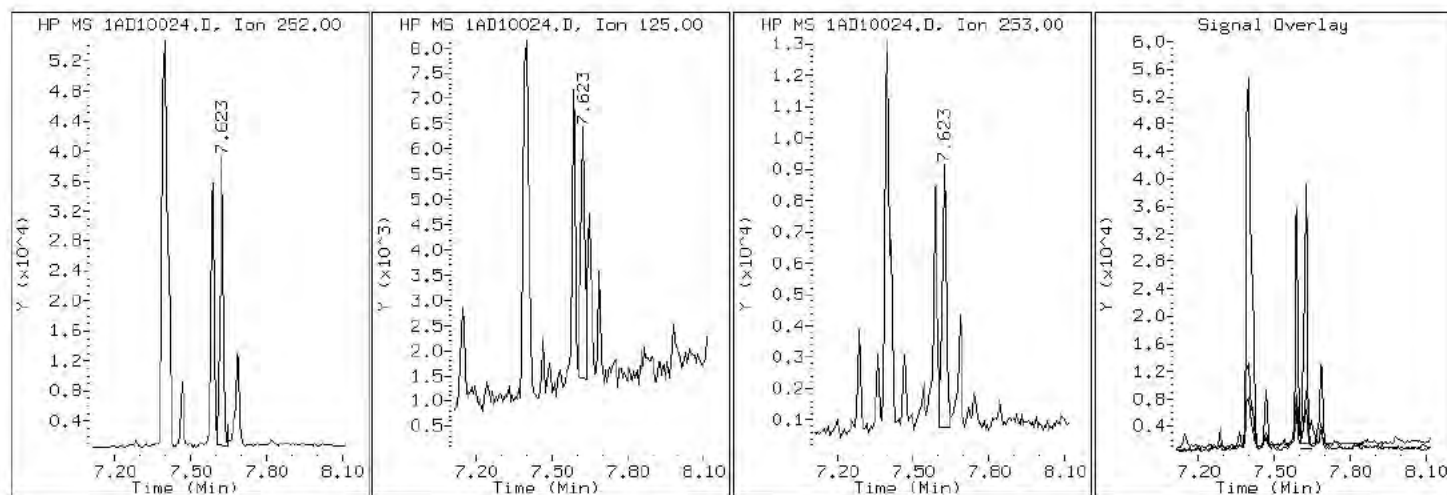
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

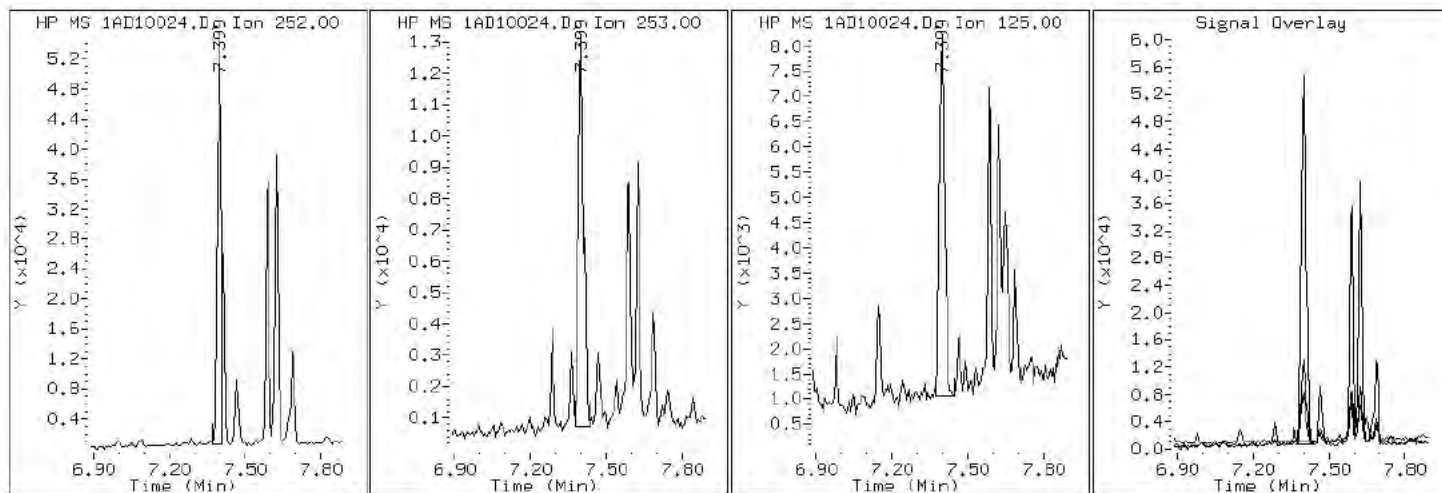
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

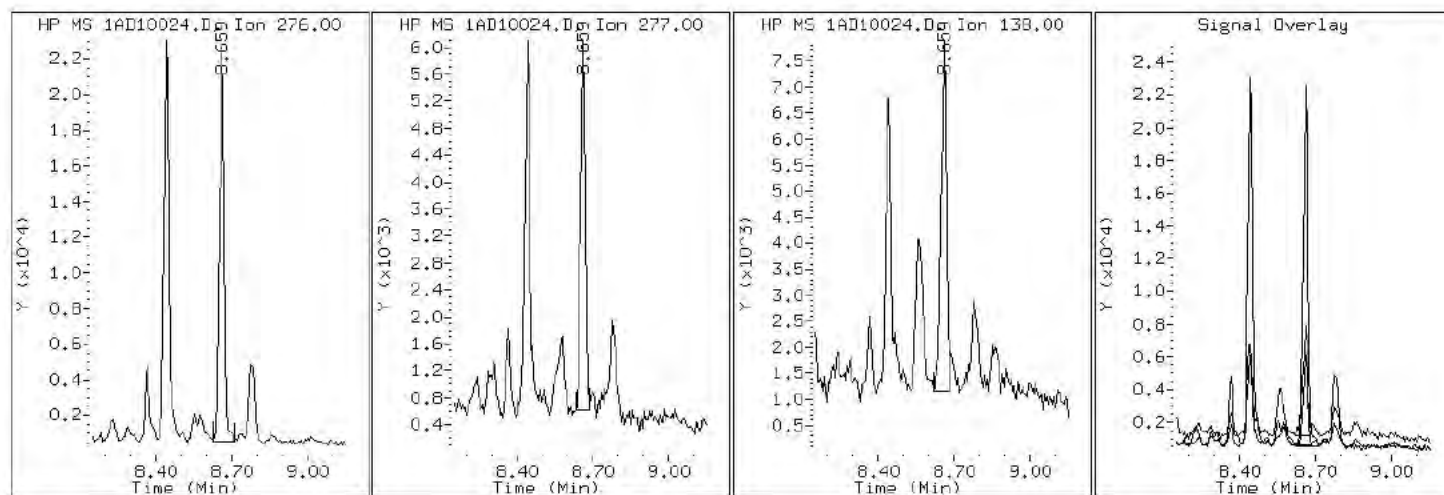
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

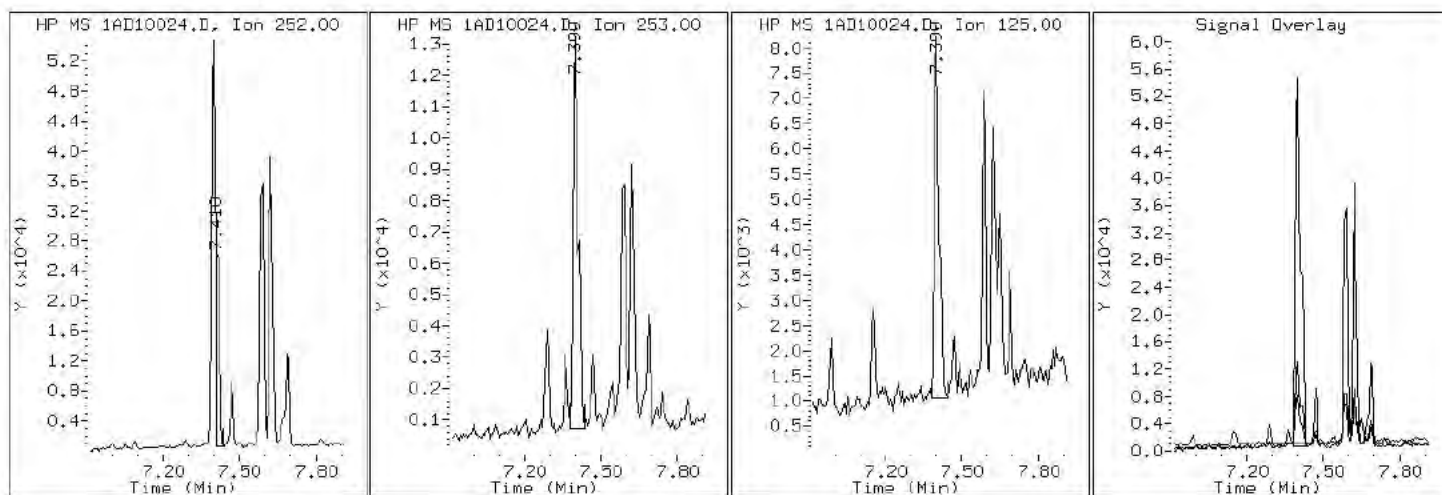
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

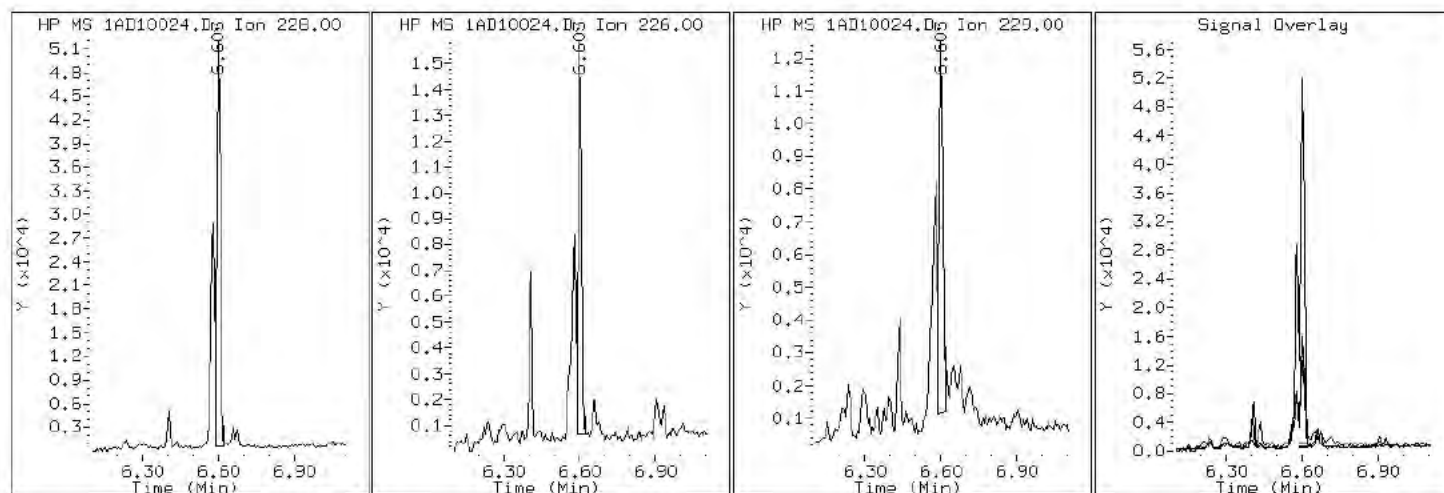
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

19 Chrysene



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

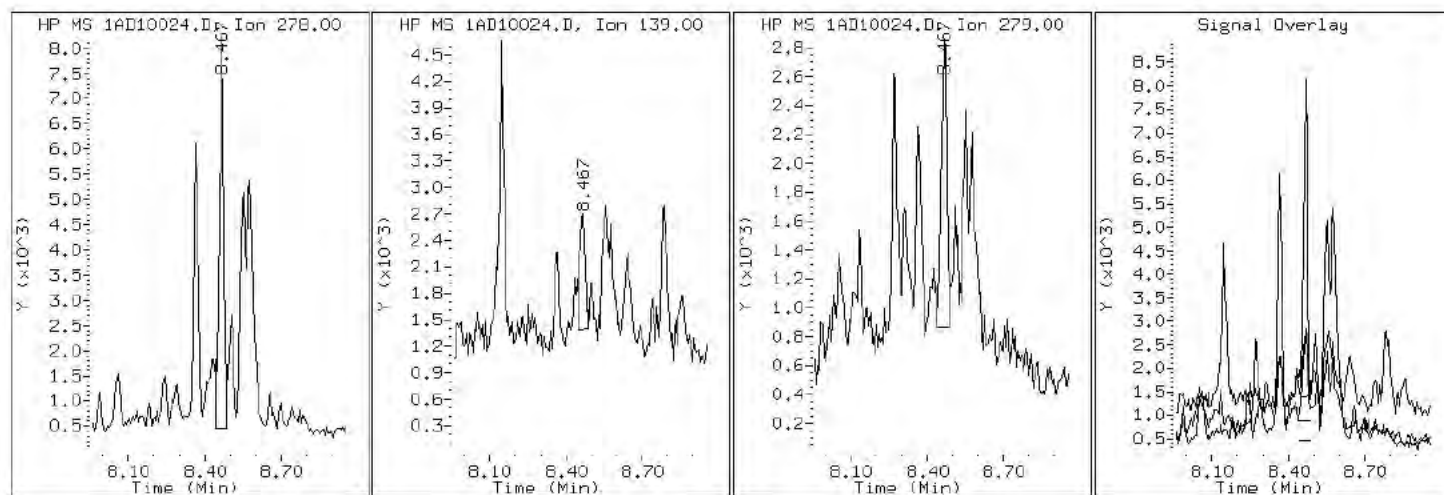
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

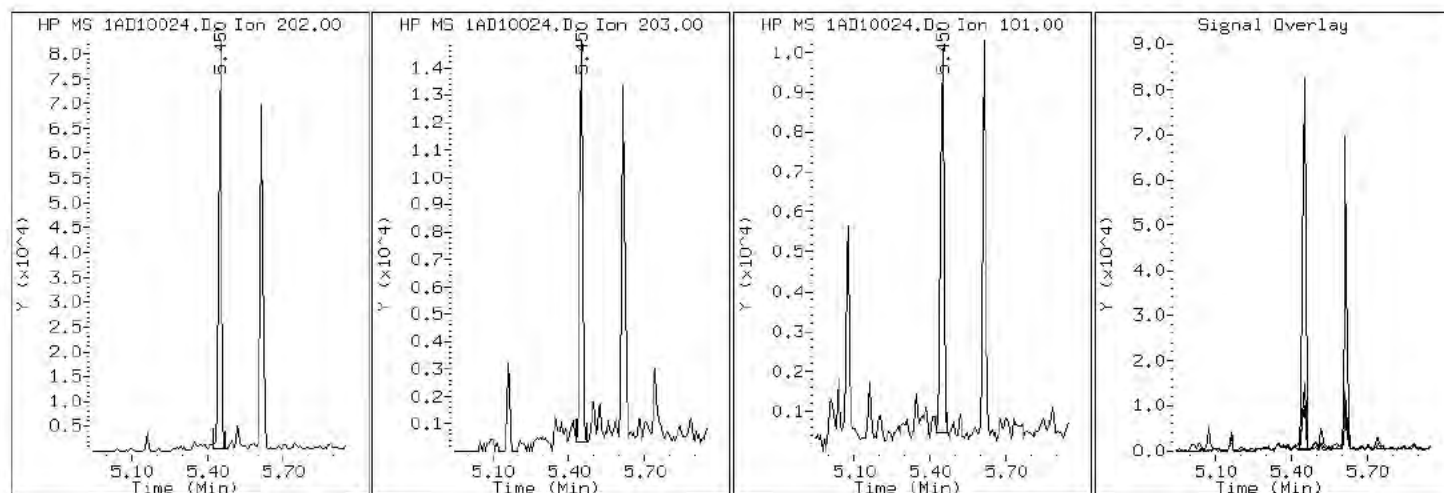
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

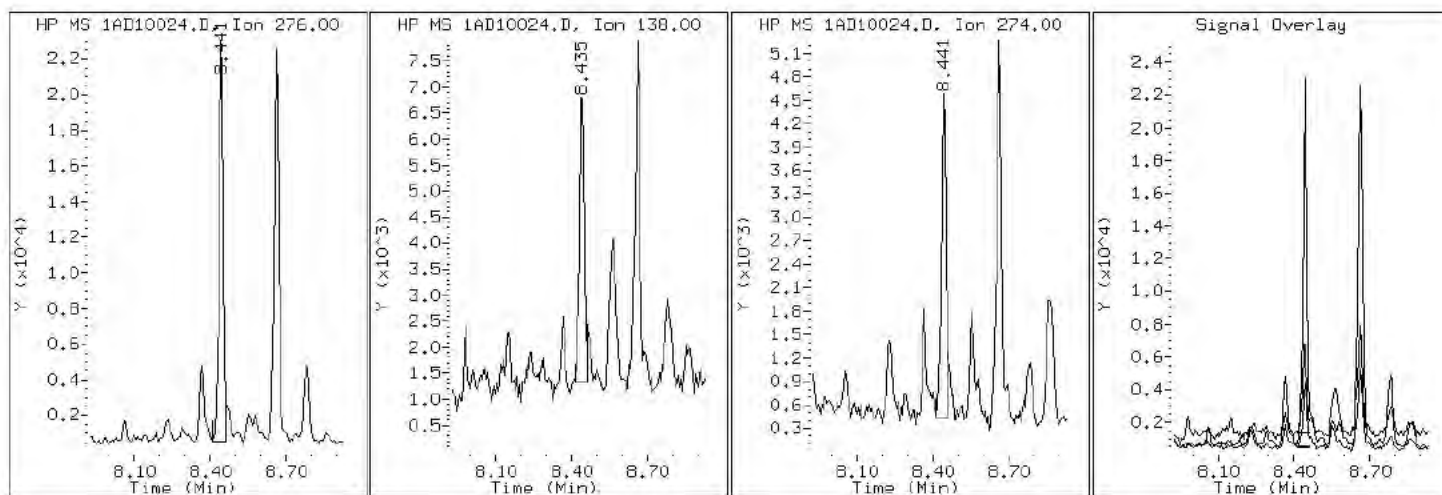
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

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



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

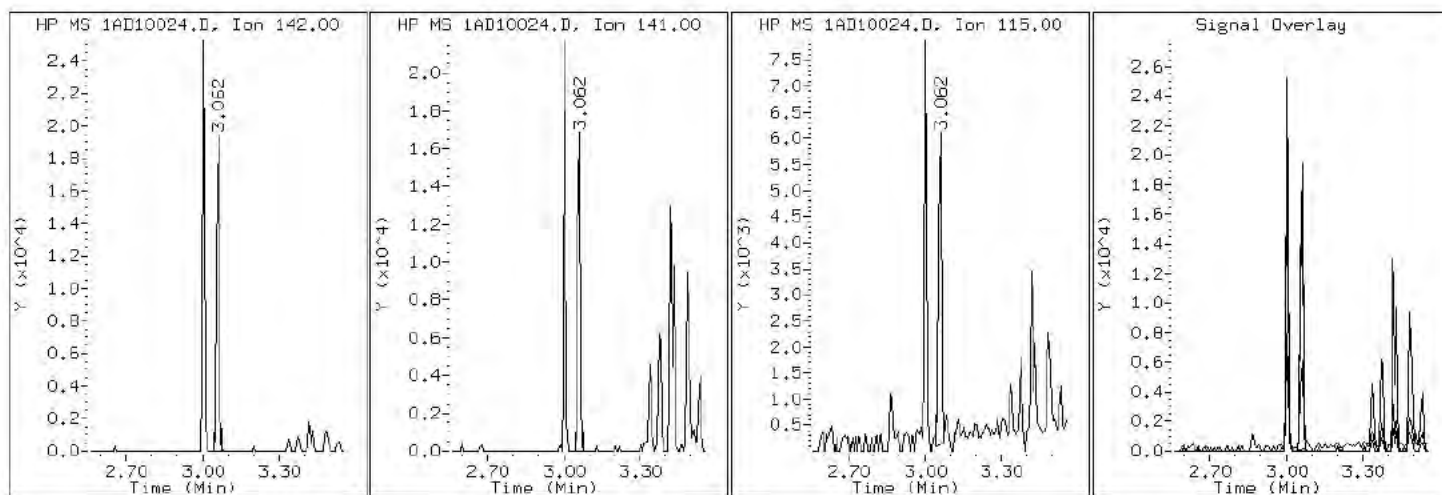
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

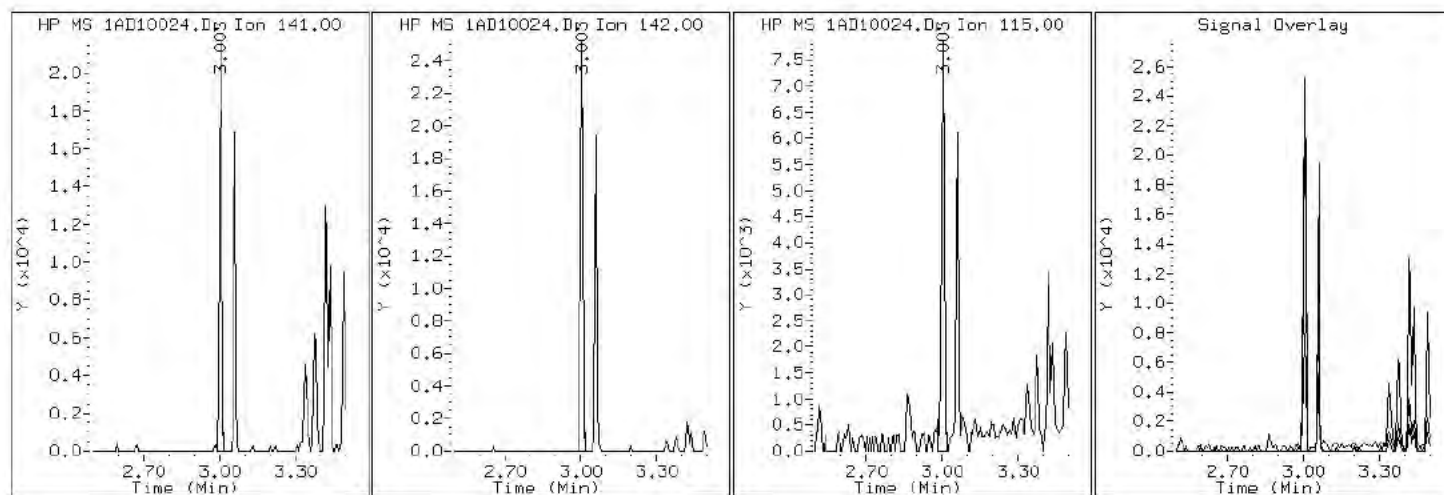
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

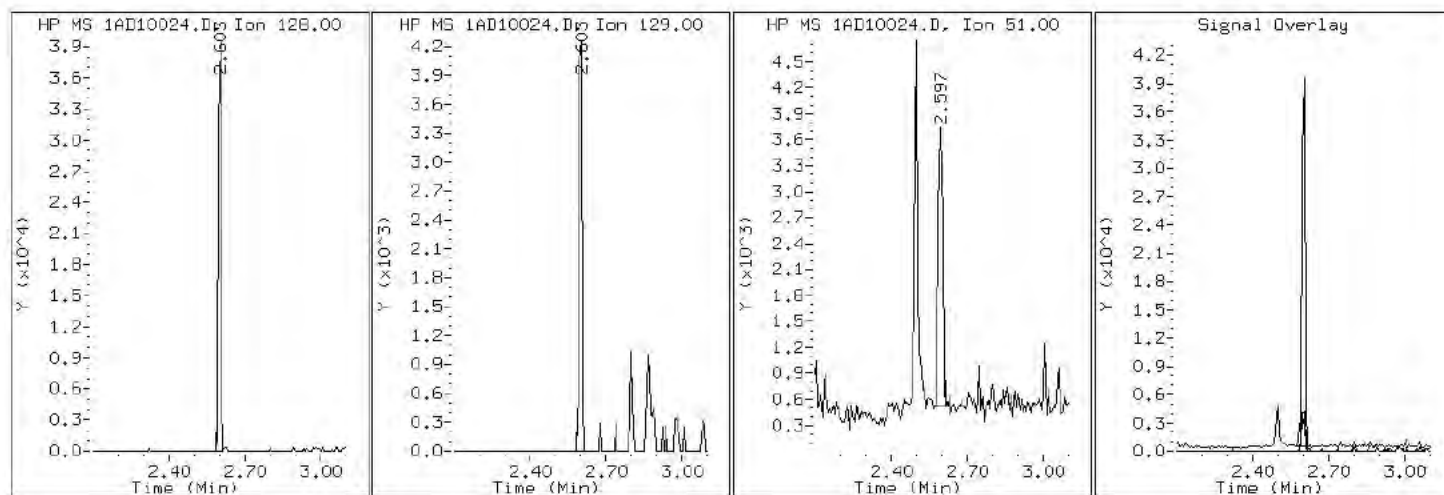
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

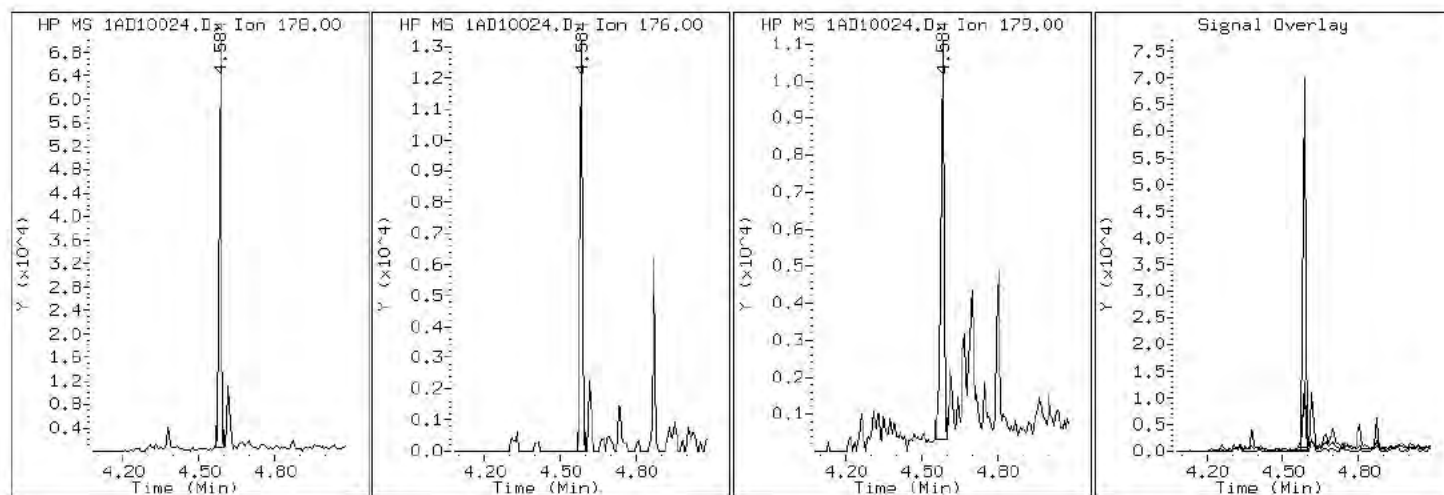
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10024.D

Date: 10-APR-2013 17:58

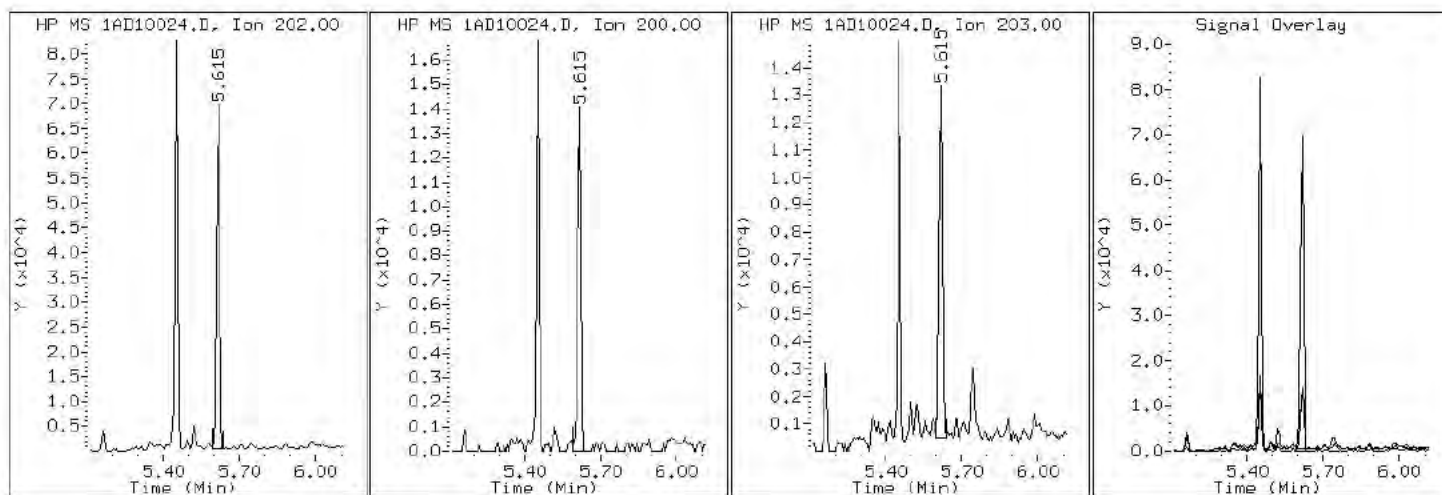
Client ID: FM0207D-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-12-a

Operator: SCC

16 Pyrene

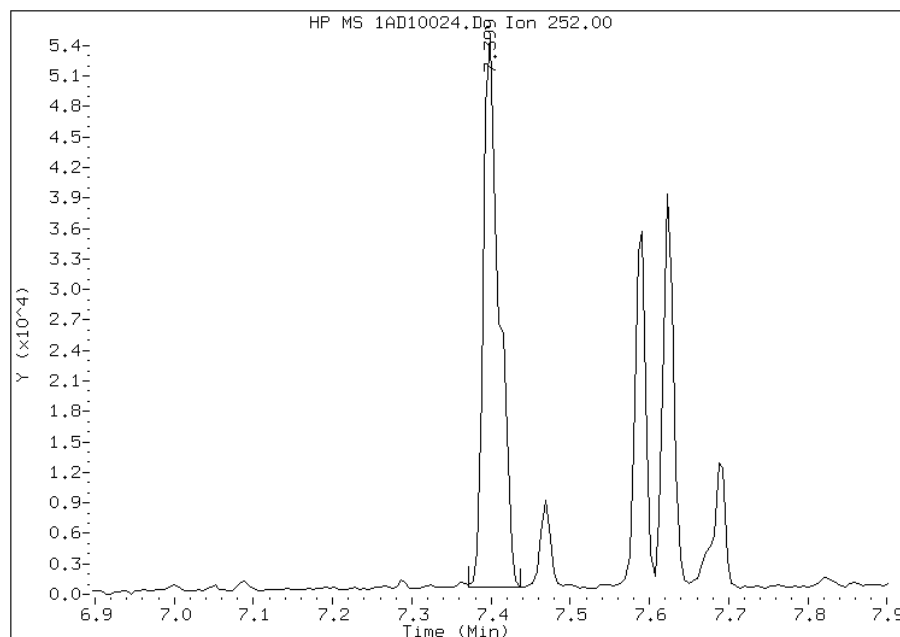


Manual Integration Report

Data File: 1AD10024.D
Inj. Date and Time: 10-APR-2013 17:58
Instrument ID: BSMA5973.i
Client ID: FM0207D-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

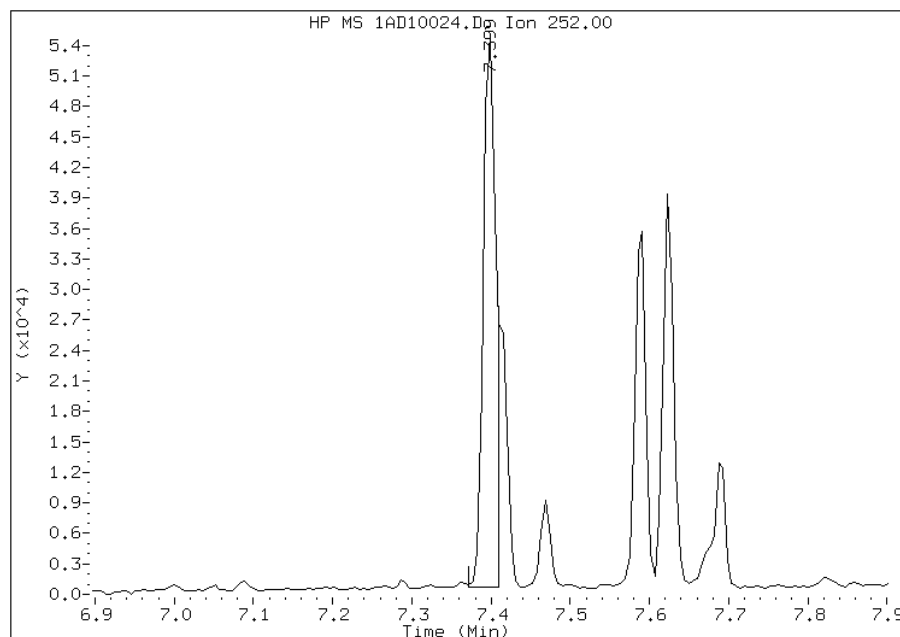
Processing Integration Results

RT: 7.40
Response: 74451
Amount: 2
Conc: 135



Manual Integration Results

RT: 7.40
Response: 60070
Amount: 1
Conc: 109



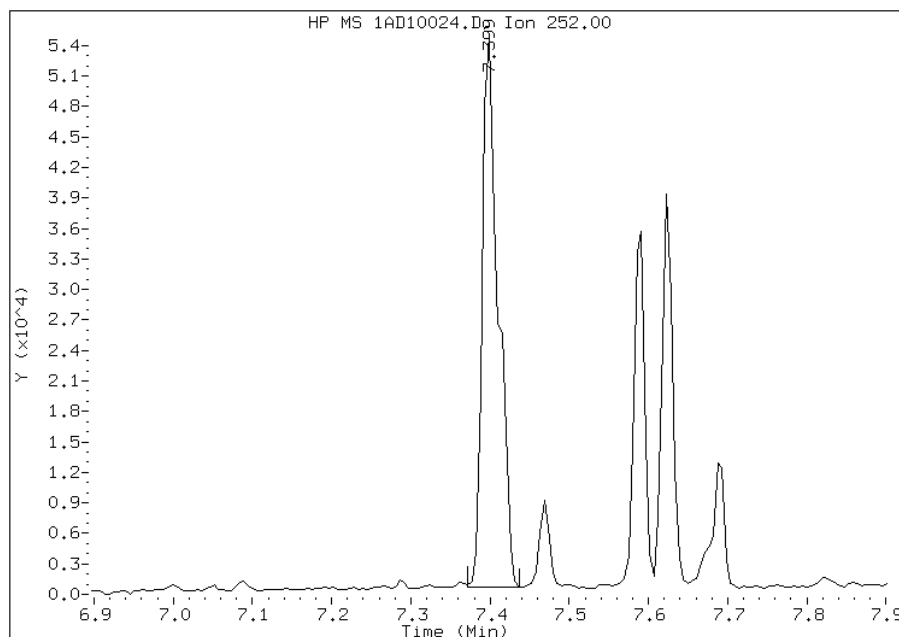
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10024.D
Inj. Date and Time: 10-APR-2013 17:58
Instrument ID: BSMA5973.i
Client ID: FM0207D-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

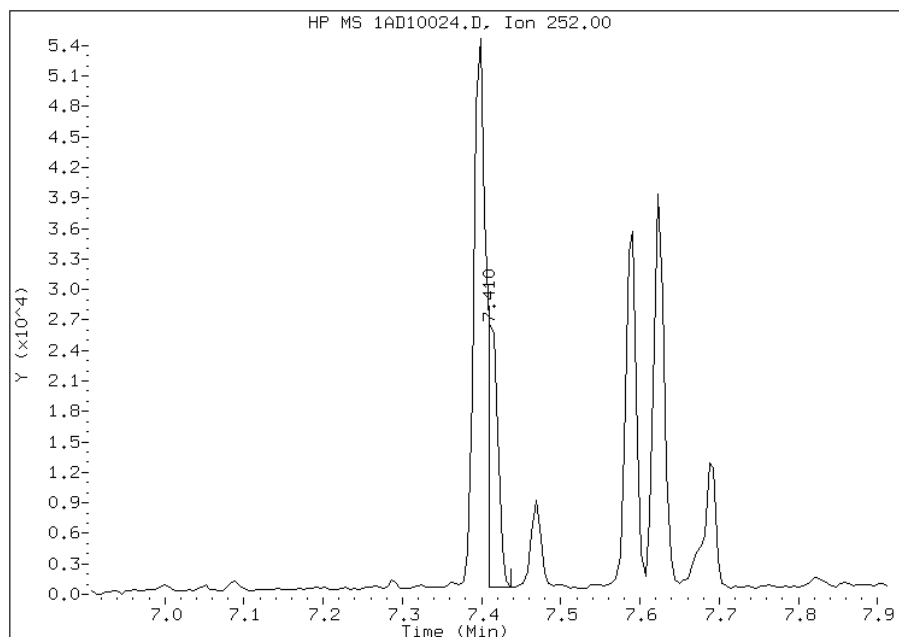
Processing Integration Results

RT: 7.40
Response: 74451
Amount: 1
Conc: 121



Manual Integration Results

RT: 7.41
Response: 22643
Amount: 0
Conc: 37



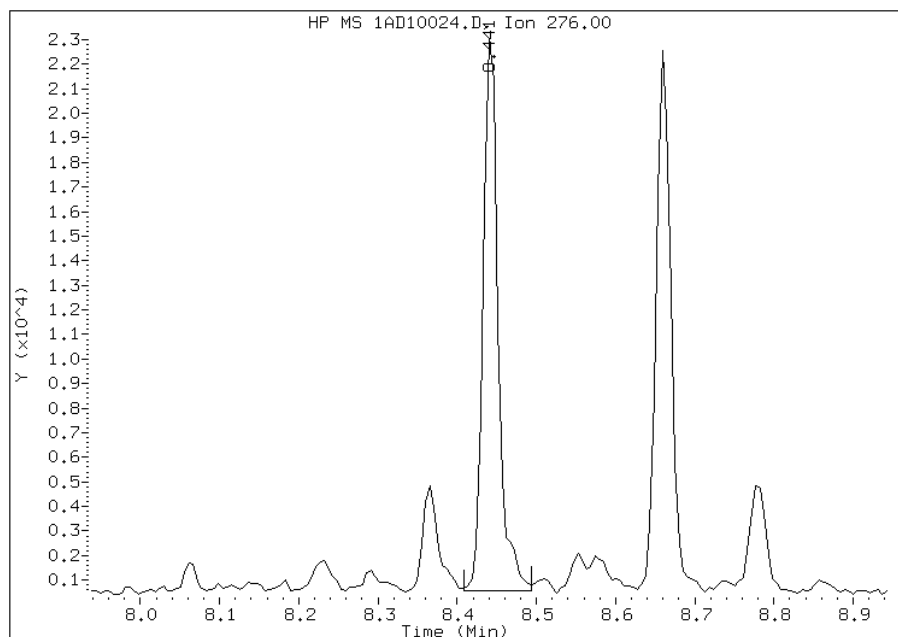
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10024.D
Inj. Date and Time: 10-APR-2013 17:58
Instrument ID: BSMA5973.i
Client ID: FM0207D-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

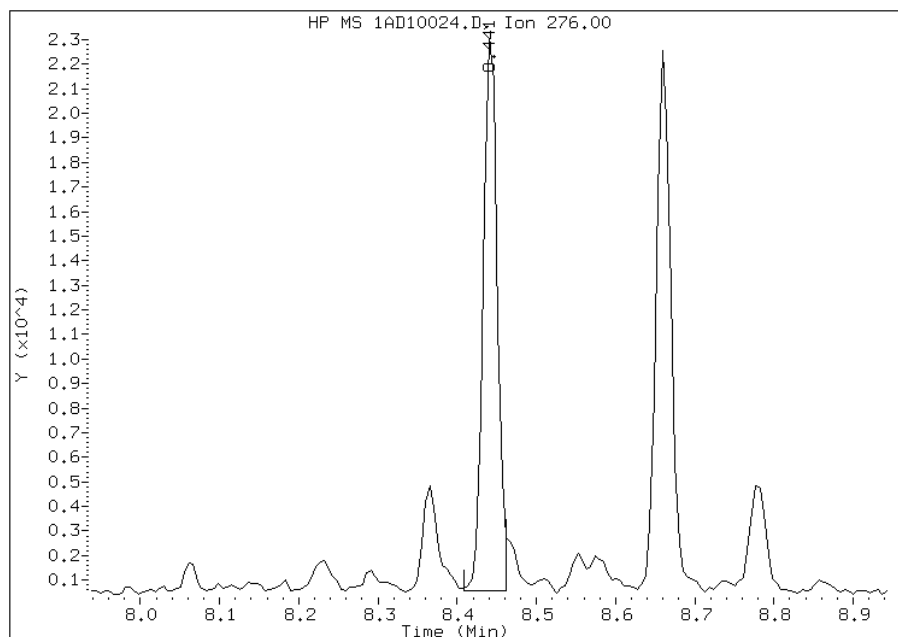
Processing Integration Results

RT: 8.44
Response: 29428
Amount: 1
Conc: 90



Manual Integration Results

RT: 8.44
Response: 27695
Amount: 1
Conc: 87



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>FM0321A-CS</u>	Lab Sample ID: <u>680-88913-13</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10025.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 12:58</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.28(g)</u>	Date Analyzed: <u>04/10/2013 18:13</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>15.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	46	U	46	5.8
120-12-7	Anthracene	46		9.8	4.9
56-55-3	Benzo[a]anthracene	92		9.3	4.5
50-32-8	Benzo[a]pyrene	88		12	6.0
205-99-2	Benzo[b]fluoranthene	150		14	7.1
191-24-2	Benzo[g,h,i]perylene	93		23	5.1
207-08-9	Benzo[k]fluoranthene	51		9.3	4.2
218-01-9	Chrysene	110		10	5.2
53-70-3	Dibenz(a,h)anthracene	25		23	4.8
206-44-0	Fluoranthene	99		23	4.6
86-73-7	Fluorene	23	U	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	100		23	8.3
90-12-0	1-Methylnaphthalene	52		46	5.1
91-57-6	2-Methylnaphthalene	67		46	8.3
91-20-3	Naphthalene	56		46	5.1
85-01-8	Phenanthrene	89		9.3	4.5
129-00-0	Pyrene	100		23	4.3

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\1A041013.b\1AD10025.D
Lab Smp Id: 680-88913-A-13-A Client Smp ID: FM0321A-CS
Inj Date : 10-APR-2013 18:13
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88913-a-13-a
Misc Info : 680-88913-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10025.D
Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.280	Weight Extracted
M	15.524	% 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	FINAL
							(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8		136	2.591	2.584 (1.000)		1476078	40.0000	
* 6 Acenaphthene-d10		164	3.616	3.615 (1.000)		796806	40.0000	
* 10 Phenanthrene-d10		188	4.572	4.571 (1.000)		1220544	40.0000	
\$ 14 o-Terphenyl		230	4.872	4.870 (1.065)		126872	4.80885	372.5508
* 18 Chrysene-d12		240	6.591	6.585 (1.000)		1226558	40.0000	
* 23 Perylene-d12		264	7.681	7.664 (1.000)		1511981	40.0000	
2 Naphthalene		128	2.602	2.600 (1.004)		26931	0.72580	56.2290
3 2-Methylnaphthalene		141	3.008	3.001 (1.161)		23855	0.86714	67.1793
4 1-Methylnaphthalene		142	3.061	3.060 (1.181)		17273	0.66873	51.8076
11 Phenanthrene		178	4.583	4.582 (1.002)		50370	1.15492	89.4736
12 Anthracene		178	4.615	4.619 (1.009)		16837	0.59599	46.1723
13 Carbazole		167	4.749	4.747 (1.039)		6668	0.20611	15.9680
15 Fluoranthene		202	5.448	5.447 (1.192)		68023	1.27793	99.0038
16 Pyrene		202	5.614	5.613 (0.852)		62440	1.32108	102.3462

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	6.581	6.574	(0.998)	48765	1.19188	92.3375
19 Chrysene	228	6.607	6.606	(1.002)	59375	1.42290	110.2349
20 Benzo(b)fluoranthene	252	7.403	7.391	(0.964)	91253	1.99043	154.2023(M)
21 Benzo(k)fluoranthene	252	7.414	7.413	(0.965)	33340	0.65477	50.7261(QM)
22 Benzo(a)pyrene	252	7.628	7.616	(0.993)	49491	1.13522	87.9474
24 Indeno(1,2,3-cd)pyrene	276	8.450	8.427	(1.100)	41275	1.34561	104.2466(M)
25 Dibenzo(a,h)anthracene	278	8.477	8.459	(1.104)	12237	0.32013	24.8010
26 Benzo(g,h,i)perylene	276	8.669	8.651	(1.129)	49502	1.20206	93.1257

QC Flag Legend

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

Data File: 1AD10025.D

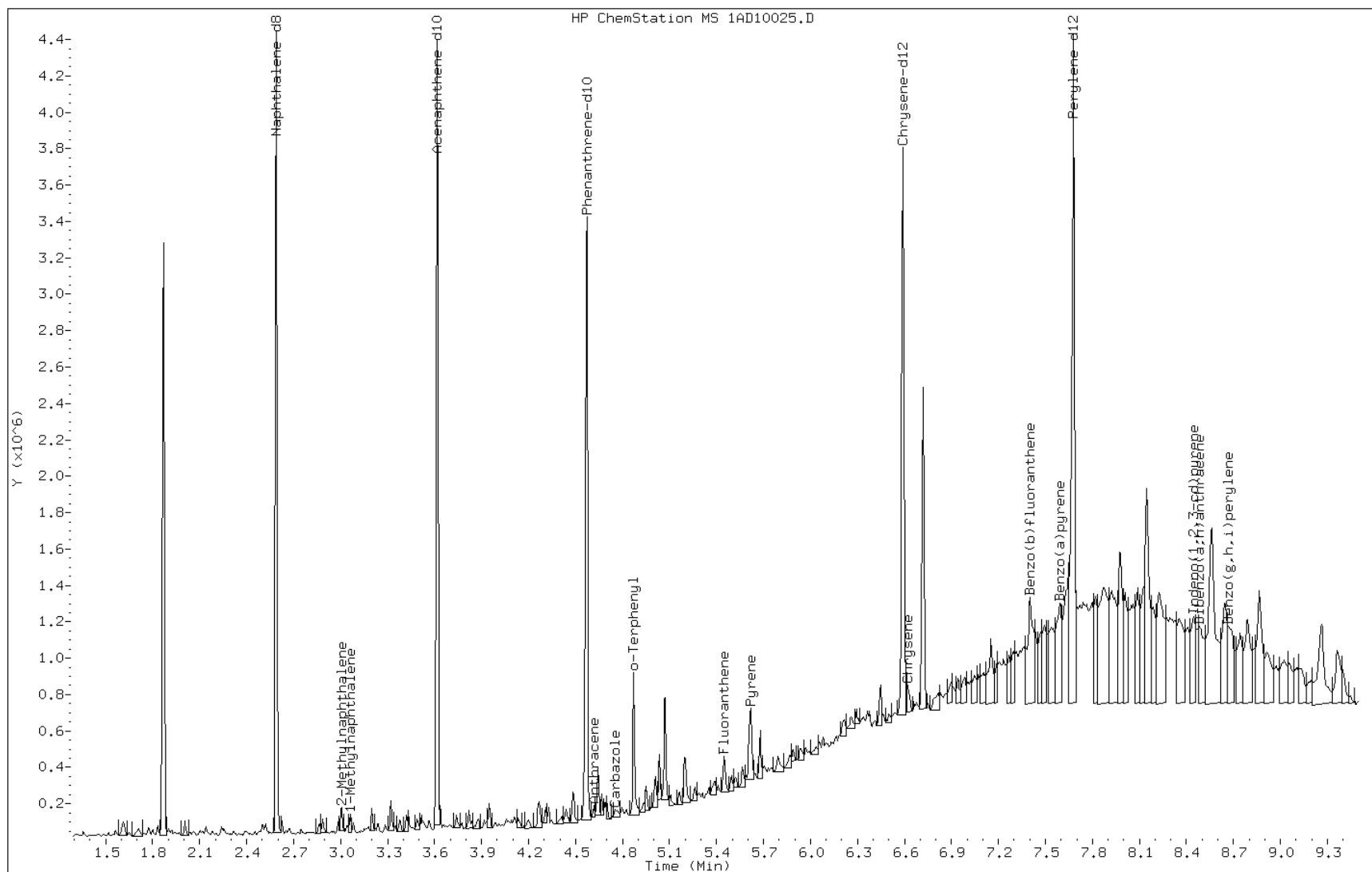
Date: 10-APR-2013 18:13

Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

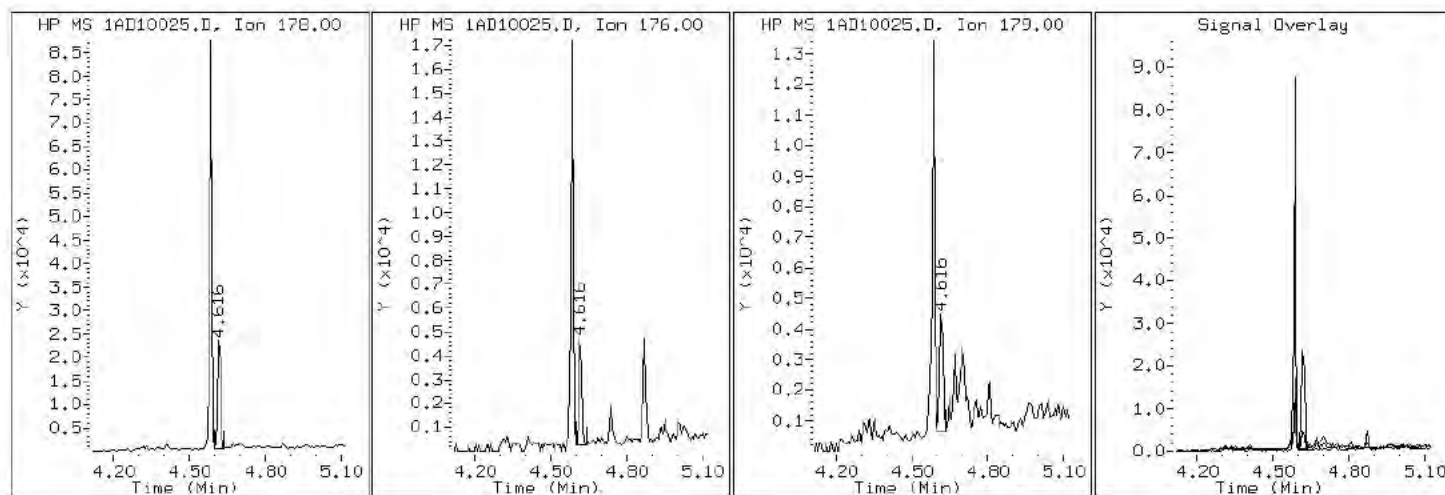
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

12 Anthracene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

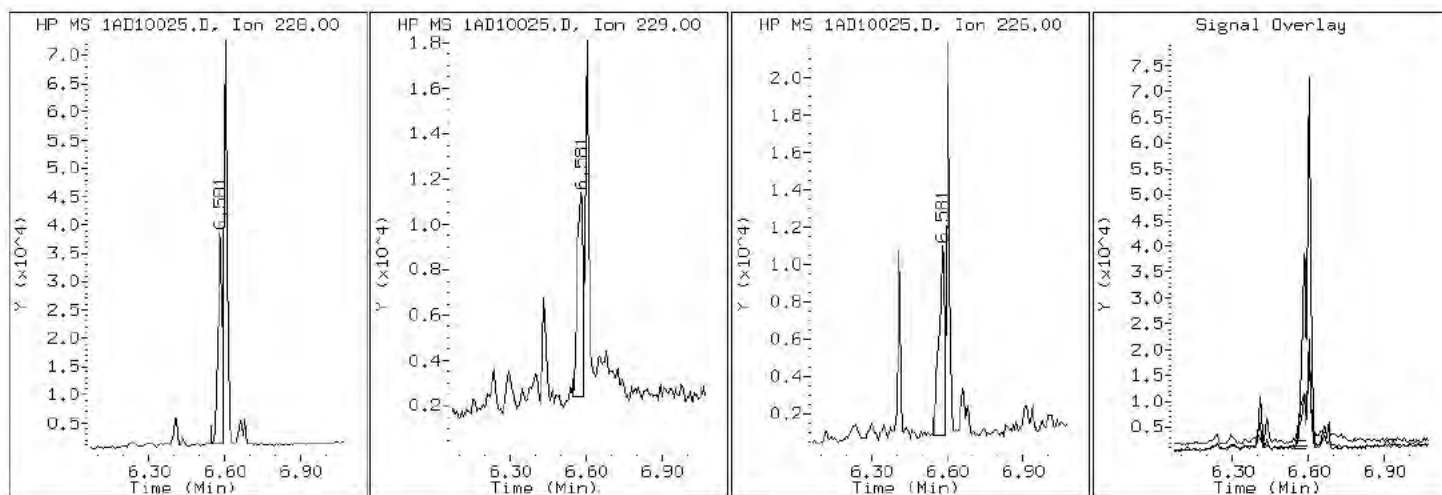
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

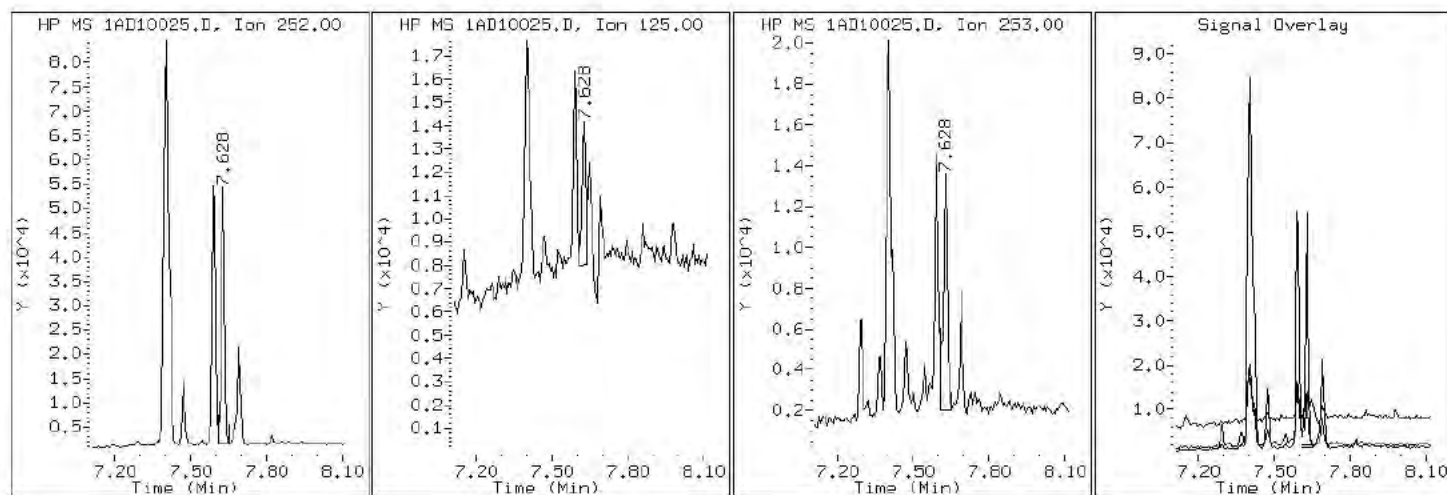
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

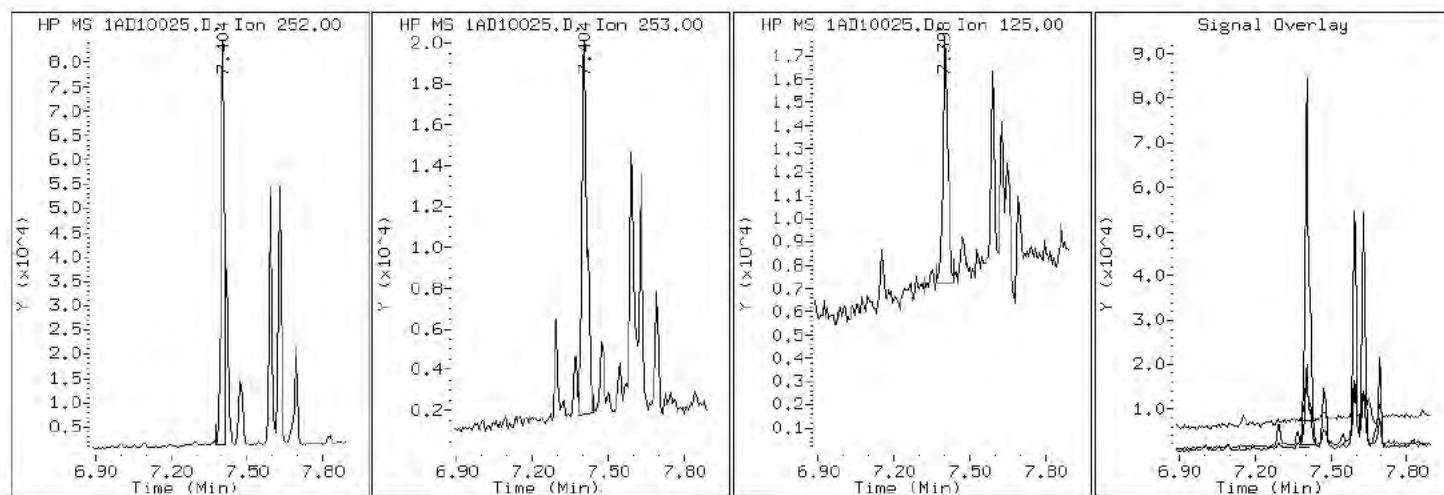
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

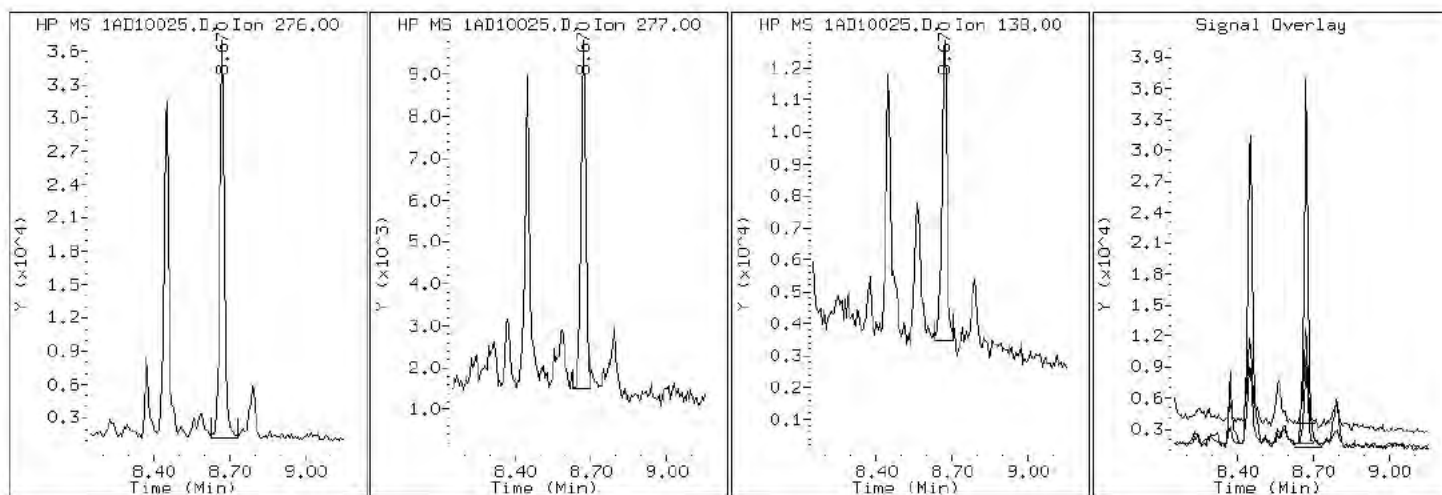
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

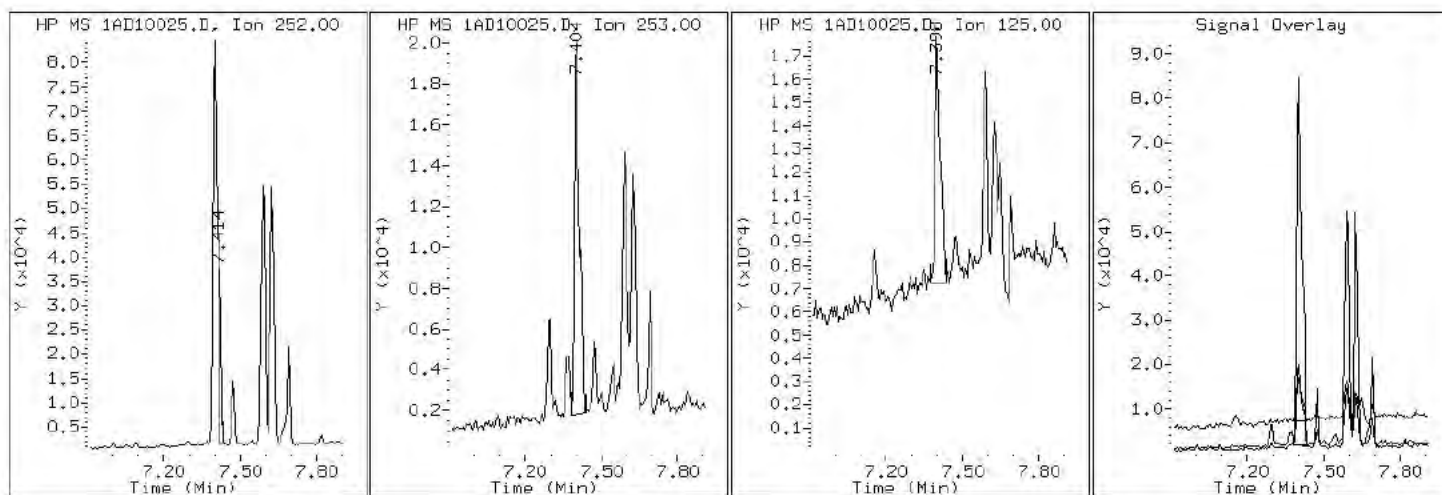
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

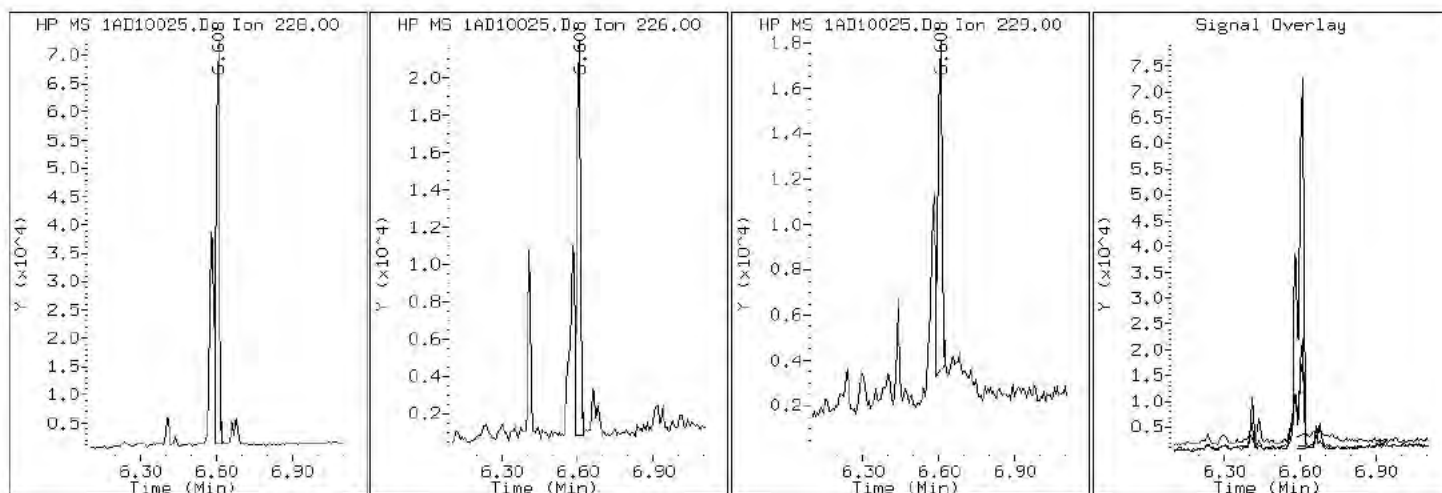
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

19 Chrysene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

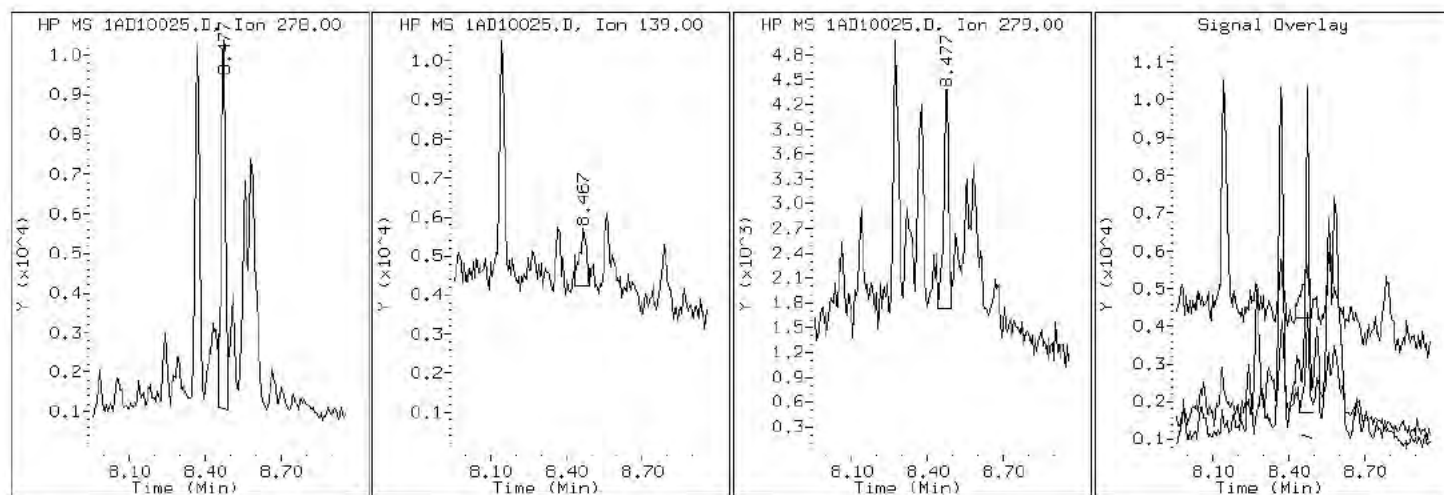
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

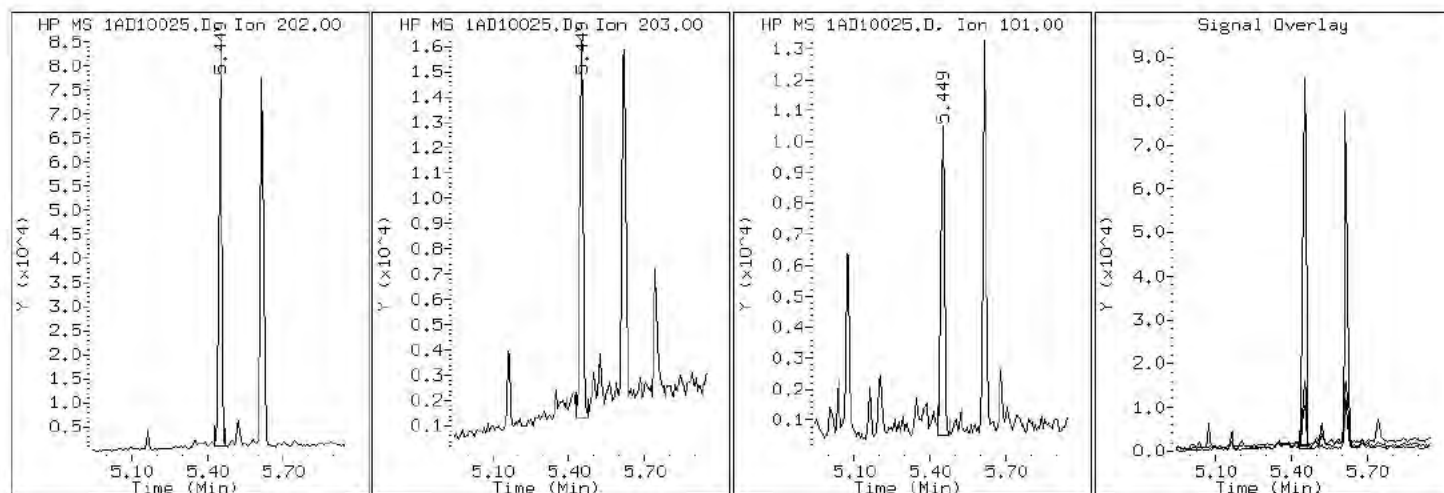
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

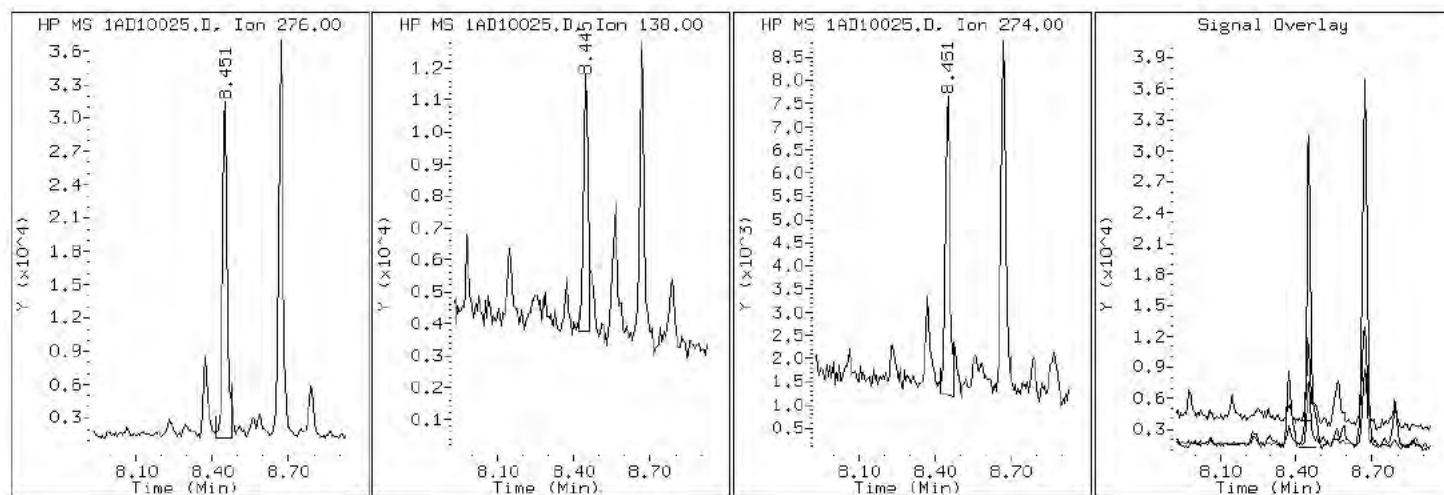
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

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



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

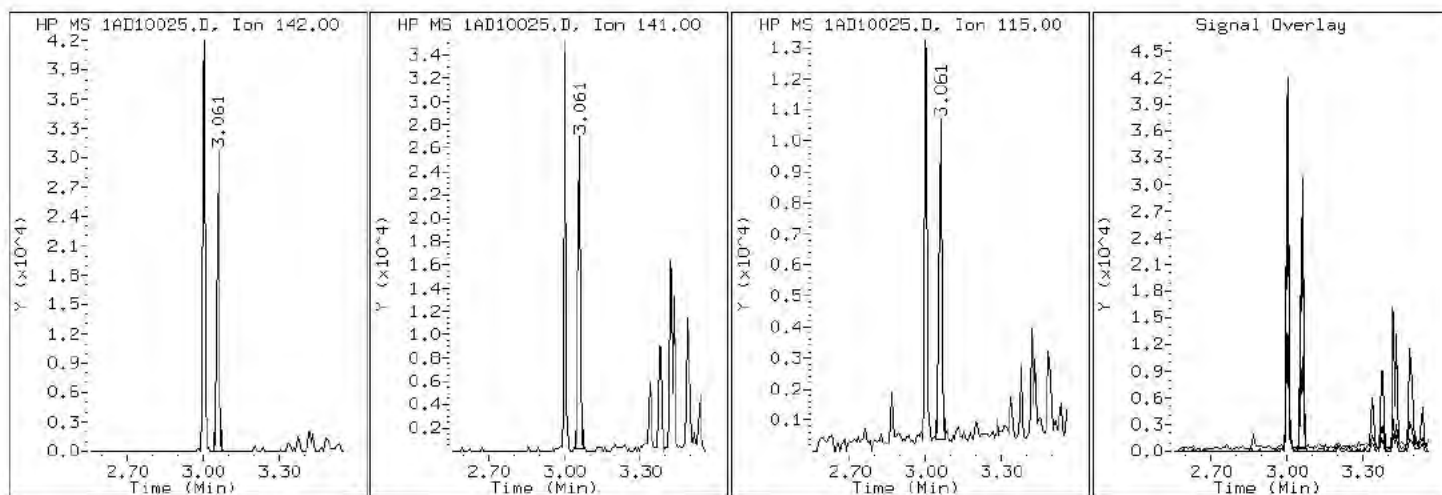
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

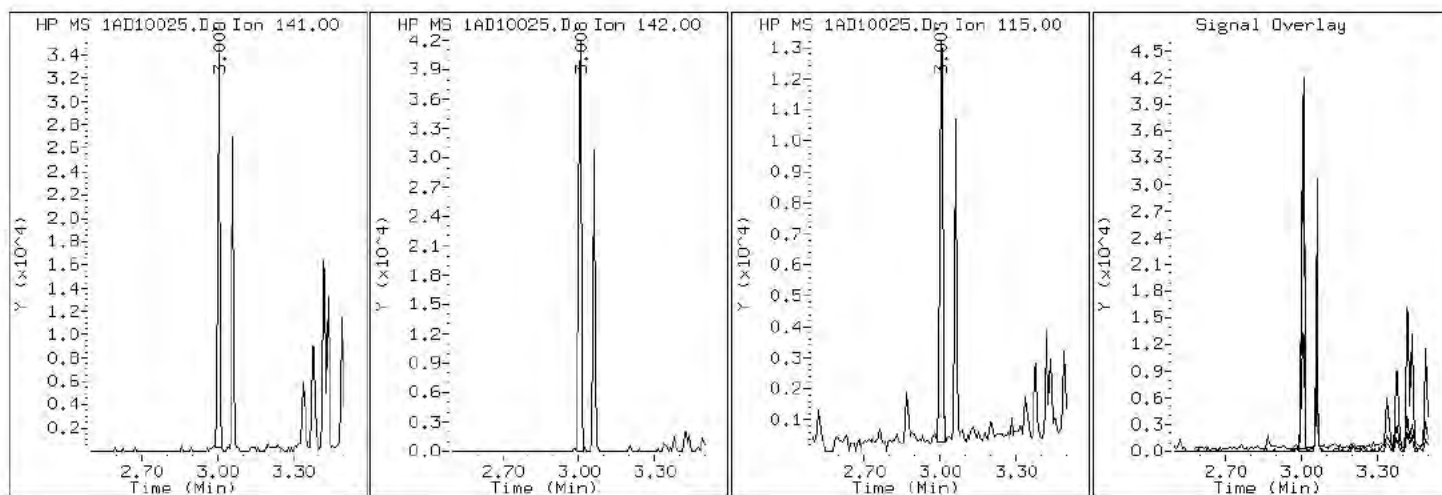
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

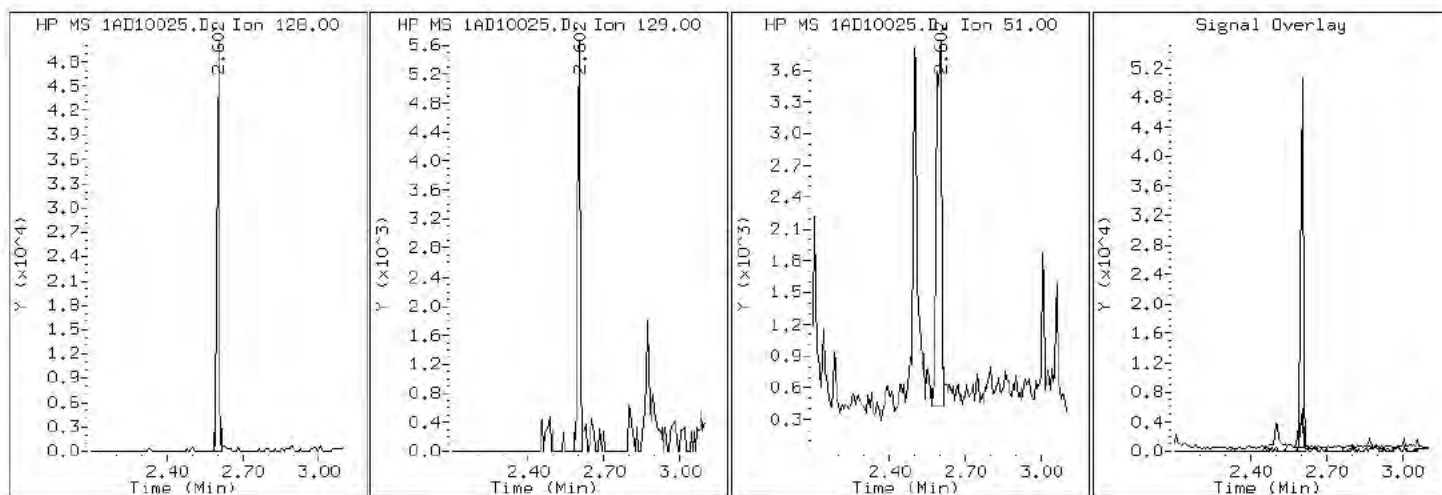
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

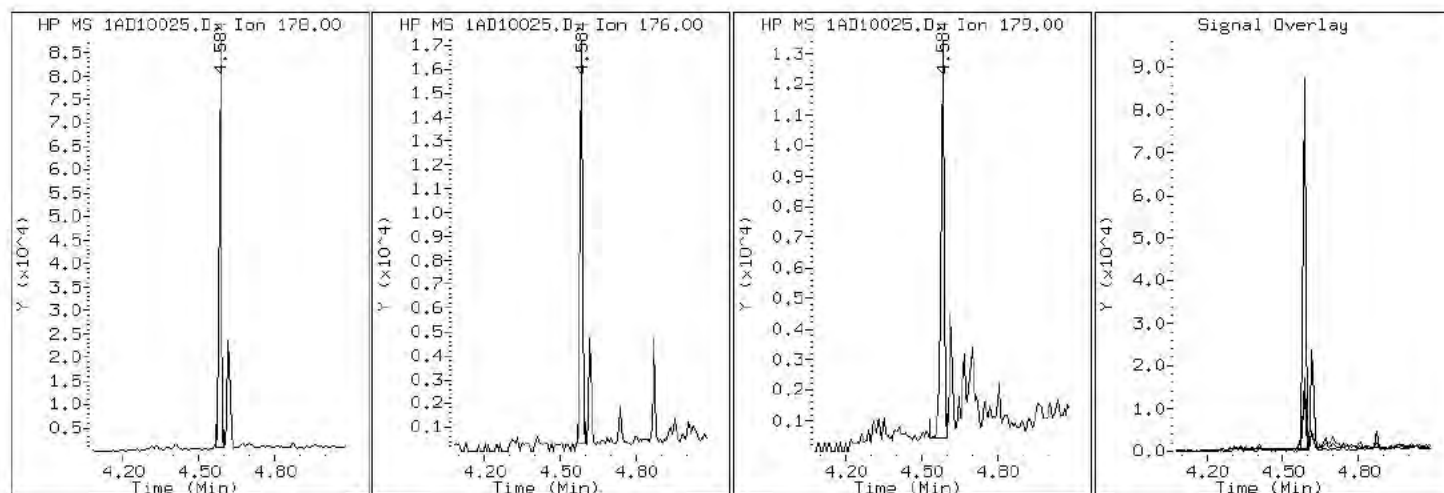
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10025.D

Date: 10-APR-2013 18:13

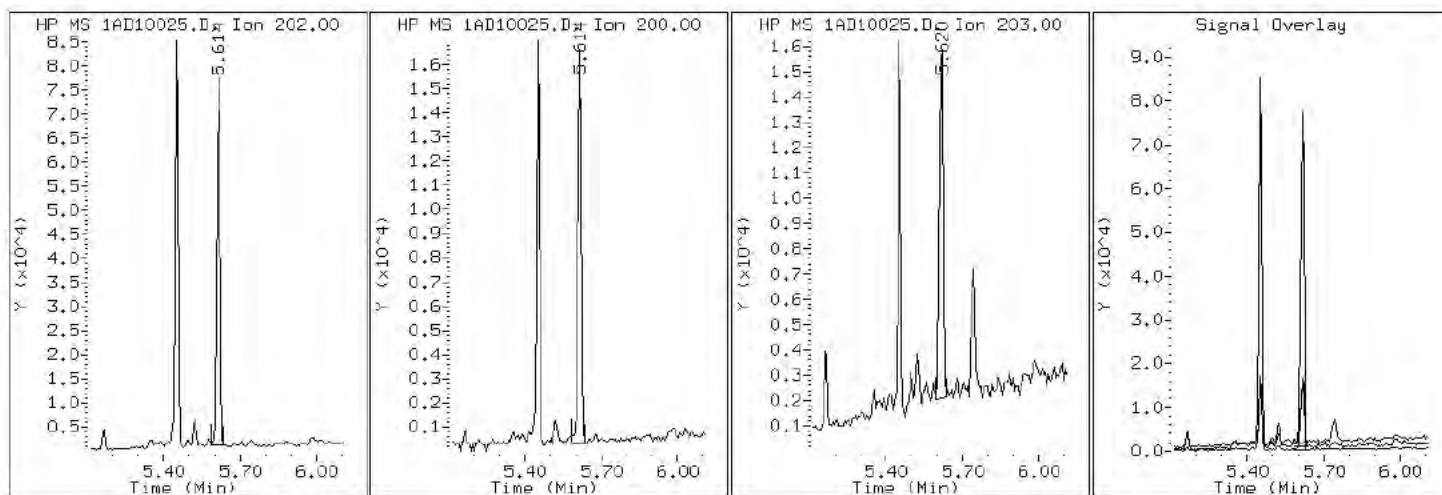
Client ID: FM0321A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-13-a

Operator: SCC

16 Pyrene

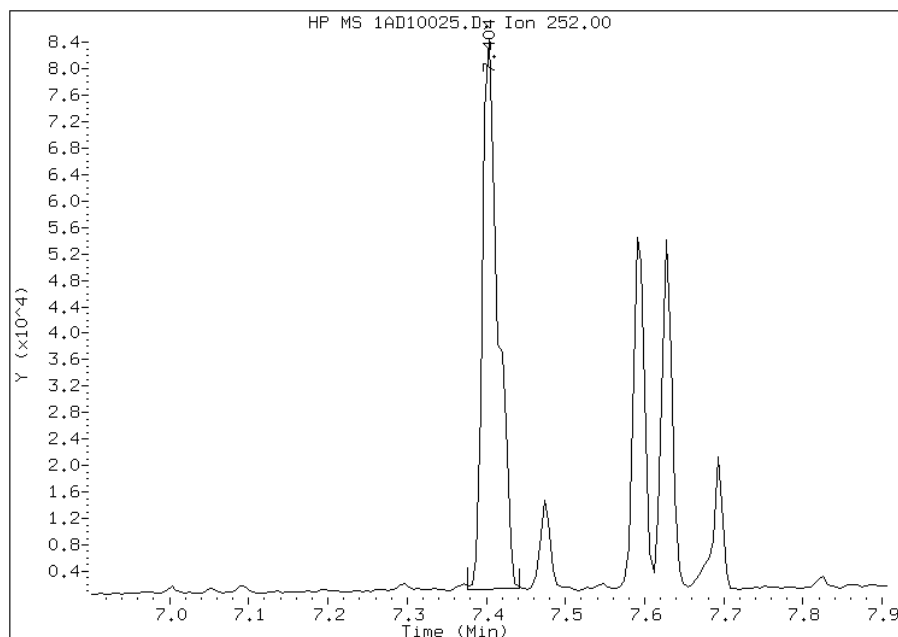


Manual Integration Report

Data File: 1AD10025.D
Inj. Date and Time: 10-APR-2013 18:13
Instrument ID: BSMA5973.i
Client ID: FM0321A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

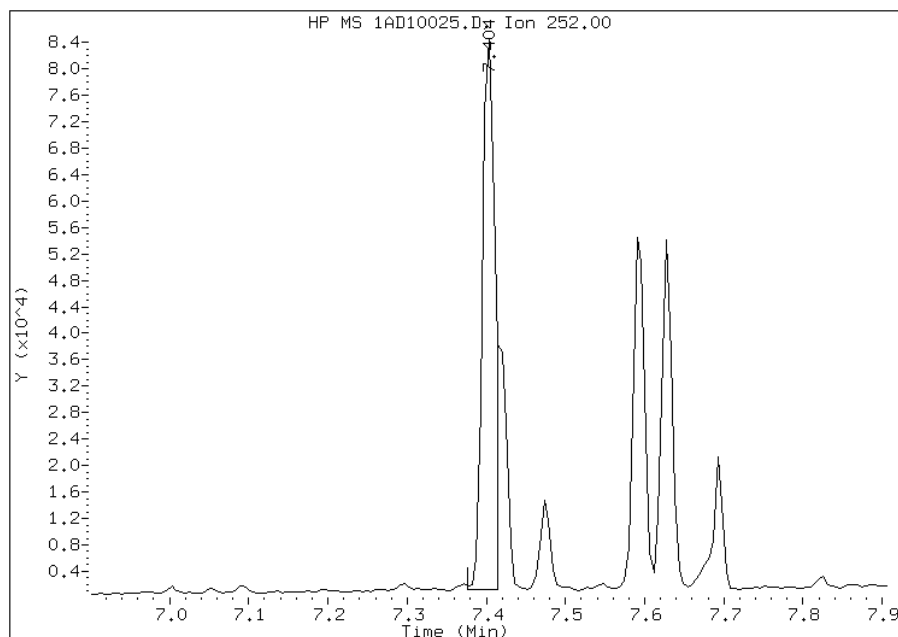
Processing Integration Results

RT: 7.40
Response: 113280
Amount: 2
Conc: 191



Manual Integration Results

RT: 7.40
Response: 91253
Amount: 2
Conc: 154



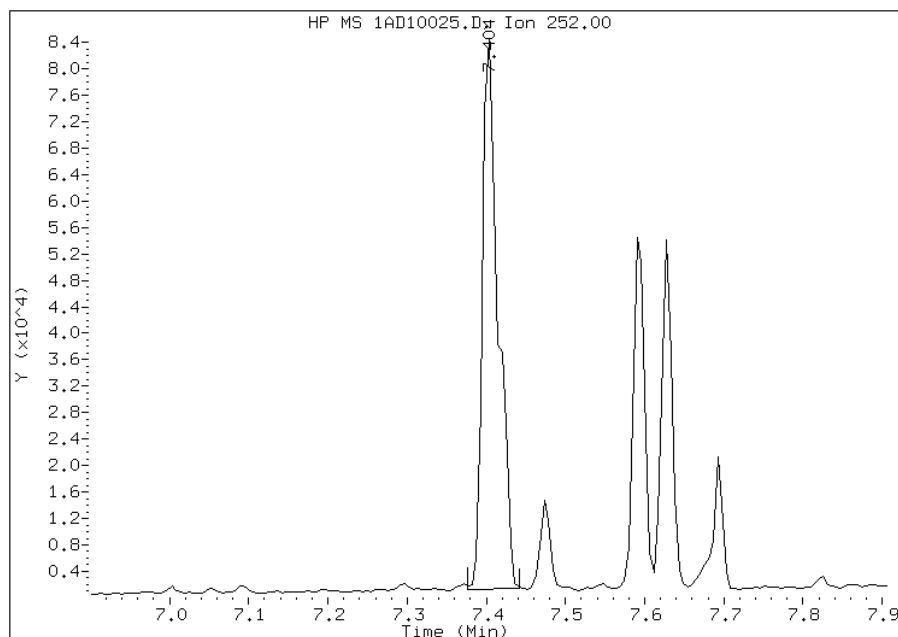
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10025.D
Inj. Date and Time: 10-APR-2013 18:13
Instrument ID: BSMA5973.i
Client ID: FM0321A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

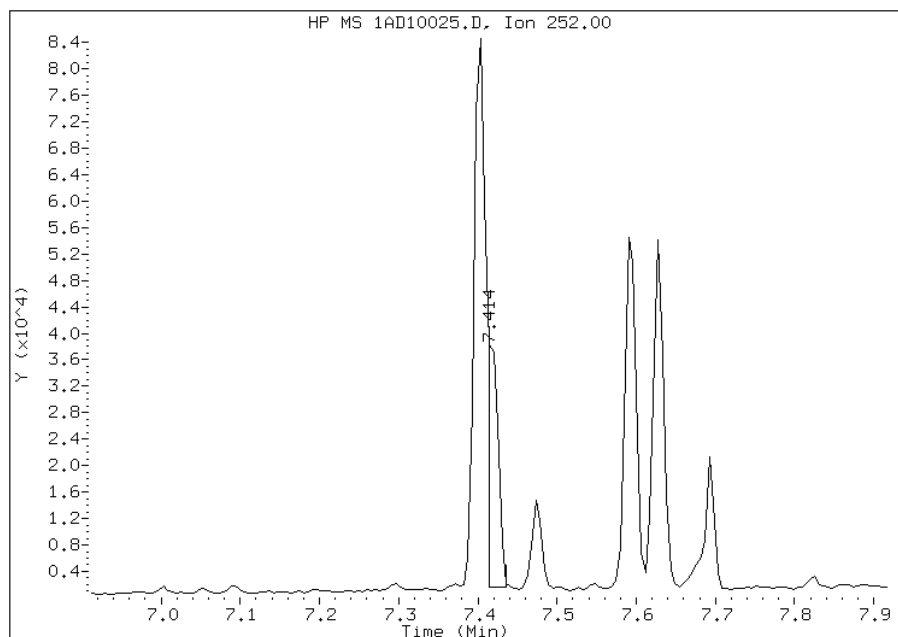
Processing Integration Results

RT: 7.40
Response: 113280
Amount: 2
Conc: 172



Manual Integration Results

RT: 7.41
Response: 33340
Amount: 1
Conc: 51



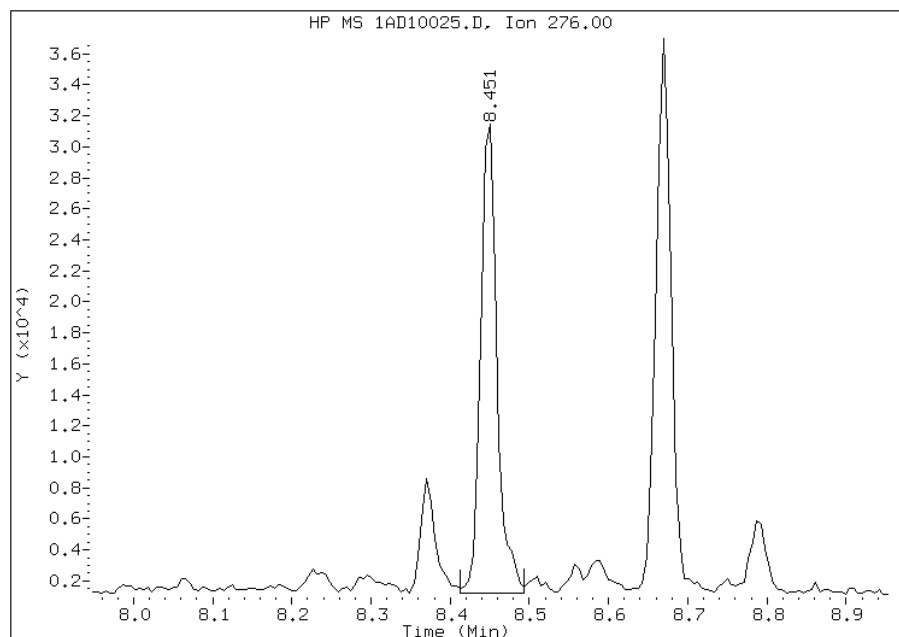
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10025.D
Inj. Date and Time: 10-APR-2013 18:13
Instrument ID: BSMA5973.i
Client ID: FM0321A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

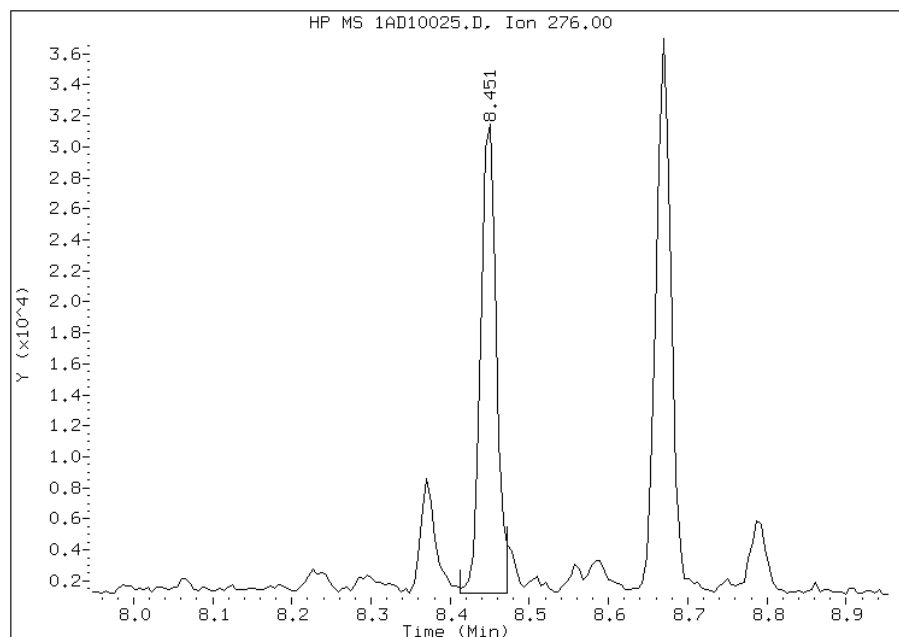
Processing Integration Results

RT: 8.45
Response: 43029
Amount: 1
Conc: 107



Manual Integration Results

RT: 8.45
Response: 41275
Amount: 1
Conc: 104



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>FM0321B-CS</u>	Lab Sample ID: <u>680-88913-14</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10026.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 13:05</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.20(g)</u>	Date Analyzed: <u>04/10/2013 18:27</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>17.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	48	U	48	6.0
120-12-7	Anthracene	10	U	10	5.0
56-55-3	Benzo[a]anthracene	27		9.5	4.7
50-32-8	Benzo[a]pyrene	28		12	6.2
205-99-2	Benzo[b]fluoranthene	60		15	7.3
191-24-2	Benzo[g,h,i]perylene	27		24	5.2
207-08-9	Benzo[k]fluoranthene	21		9.5	4.3
218-01-9	Chrysene	42		11	5.4
53-70-3	Dibenz(a,h)anthracene	8.1	J	24	4.9
206-44-0	Fluoranthene	32		24	4.8
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	56		24	8.5
90-12-0	1-Methylnaphthalene	48	U	48	5.2
91-57-6	2-Methylnaphthalene	48	U	48	8.5
91-20-3	Naphthalene	48	U	48	5.2
85-01-8	Phenanthrene	40		9.5	4.7
129-00-0	Pyrene	33		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\1A041013.b\1AD10026.D
Lab Smp Id: 680-88913-A-14-A                      Client Smp ID: FM0321B-CS
Inj Date  : 10-APR-2013 18:27
Operator   : SCC                                      Inst ID: BSMA5973.i
Smp Info   : 680-88913-a-14-a
Misc Info  : 680-88913-A-14-A
Comment    :
Method     : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10026.D
Meth Date  : 11-Apr-2013 10:31 cantins              Quant Type: ISTD
Cal Date   : 09-APR-2013 12:03                    Cal File: 1AD09009.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE                                  Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000
```

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/V_i * V_t/W_s * 100/(100 - M) * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	17.257	% 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

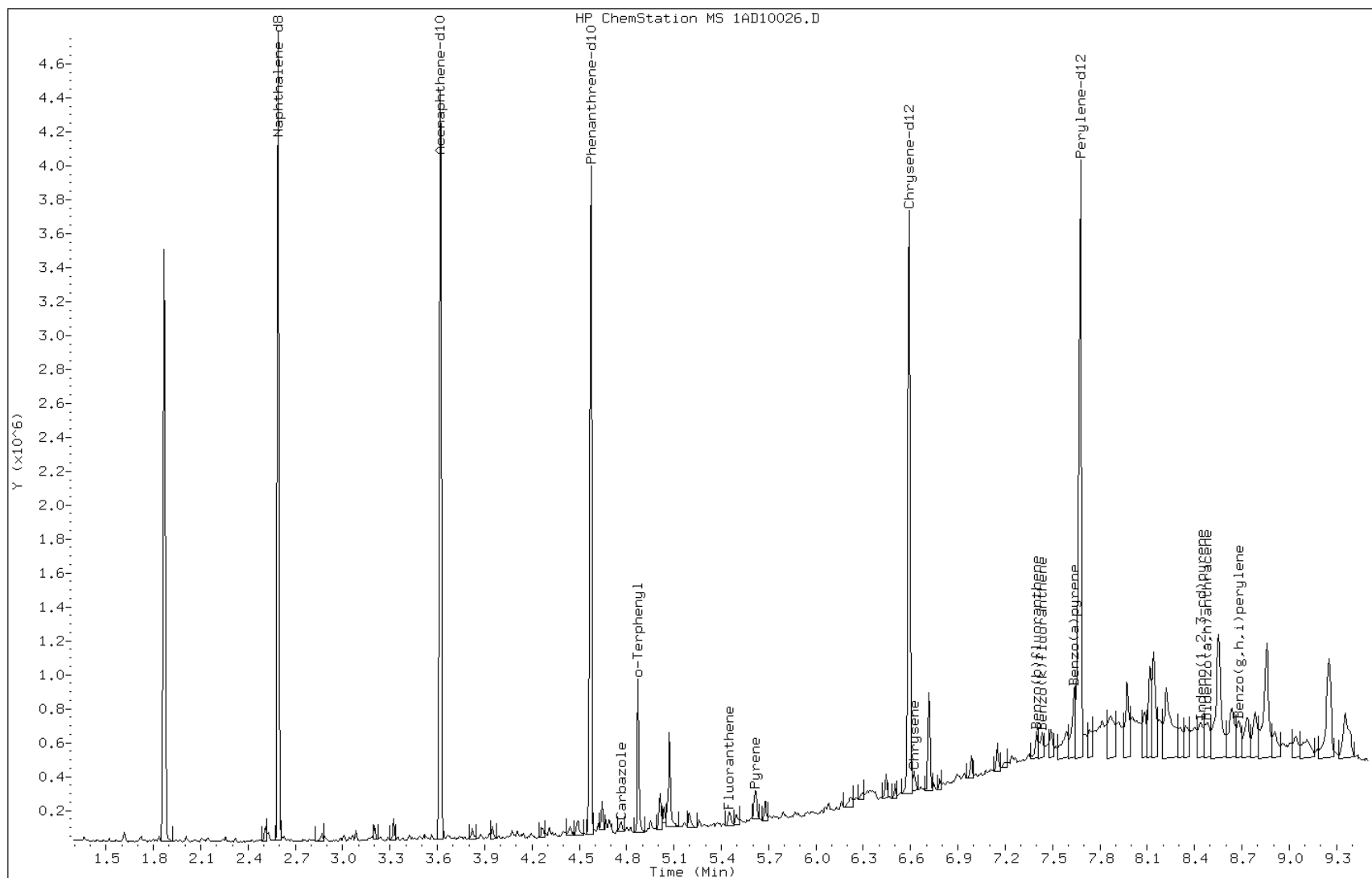
						CONCENTRATIONS		
		QUANT	SIG				ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	2.592	2.584	(1.000)	1650932	40.0000	
*	6 Acenaphthene-d10	164	3.618	3.615	(1.000)	881163	40.0000	
*	10 Phenanthrene-d10	188	4.574	4.571	(1.000)	1350947	40.0000	
\$	14 o-Terphenyl	230	4.873	4.870	(1.065)	137655	4.70483	374.0823
*	18 Chrysene-d12	240	6.593	6.585	(1.000)	1356060	40.0000	
*	23 Perylene-d12	264	7.677	7.664	(1.000)	1641367	40.0000	
	11 Phenanthrene	178	4.585	4.582	(1.002)	13118	0.49754	39.5599
	13 Carbazole	167	4.750	4.747	(1.039)	4178	0.14636	11.6372
	15 Fluoranthene	202	5.450	5.447	(1.191)	21451	0.40665	32.3328
	16 Pyrene	202	5.616	5.613	(0.852)	21542	0.41225	32.7780
	17 Benzo(a)anthracene	228	6.588	6.574	(0.999)	15641	0.34578	27.4930
	19 Chrysene	228	6.609	6.606	(1.002)	24493	0.53091	42.2129
	20 Benzo(b)fluoranthene	252	7.399	7.391	(0.964)	37327	0.75000	59.6329(M)
	21 Benzo(k)fluoranthene	252	7.415	7.413	(0.966)	14353	0.25966	20.6456(QM)

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
22 Benzo(a)pyrene	252	7.624	7.616	(0.993)	16672	0.35227	28.0094
24 Indeno(1,2,3-cd)pyrene	276	8.436	8.427	(1.099)	14283	0.70155	55.7802
25 Dibenzo(a,h)anthracene	278	8.468	8.459	(1.103)	4213	0.10153	8.0724
26 Benzo(g,h,i)perylene	276	8.660	8.651	(1.128)	15012	0.33580	26.6996

QC Flag Legend

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

Operator: SCC



Data File: 1AD10026.D

Date: 10-APR-2013 18:27

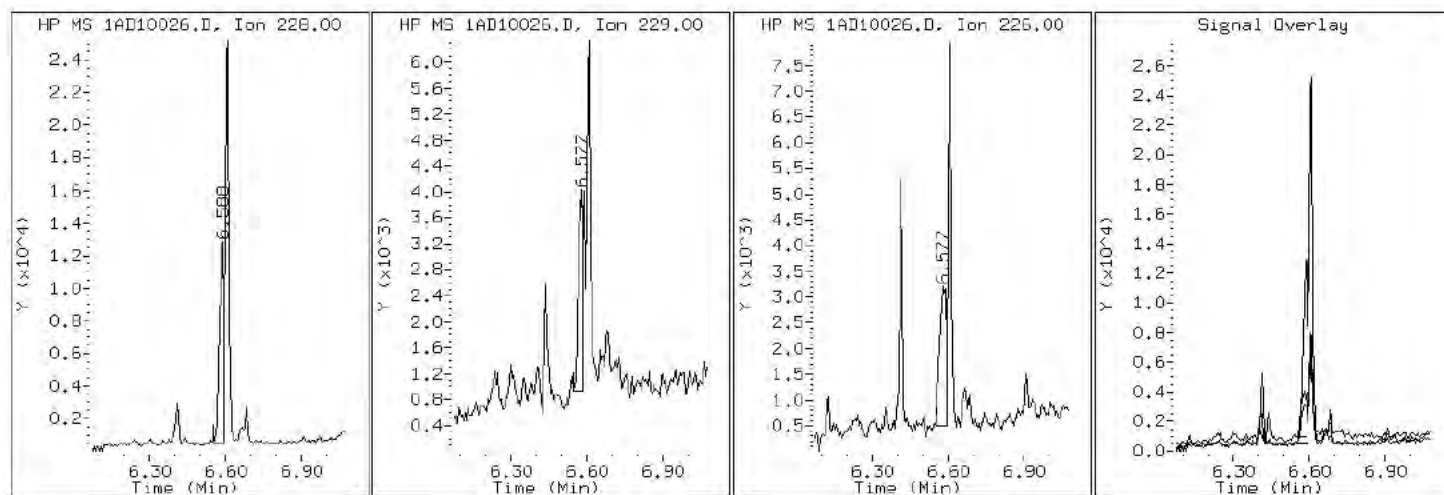
Client ID: FM0321B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-14-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10026.D

Date: 10-APR-2013 18:27

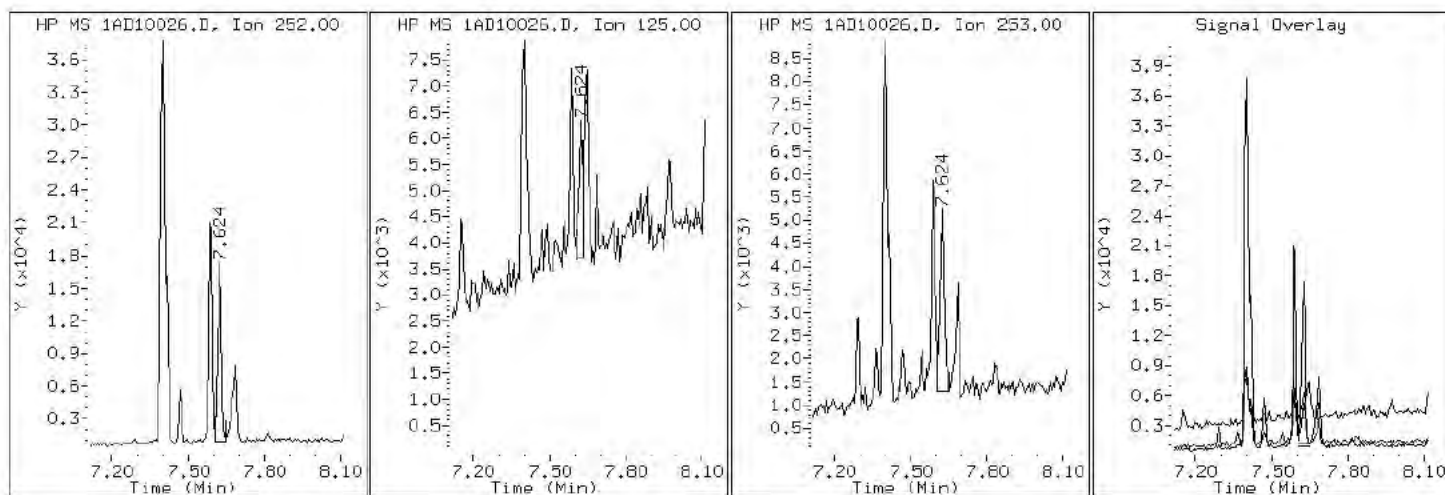
Client ID: FM0321B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-14-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10026.D

Date: 10-APR-2013 18:27

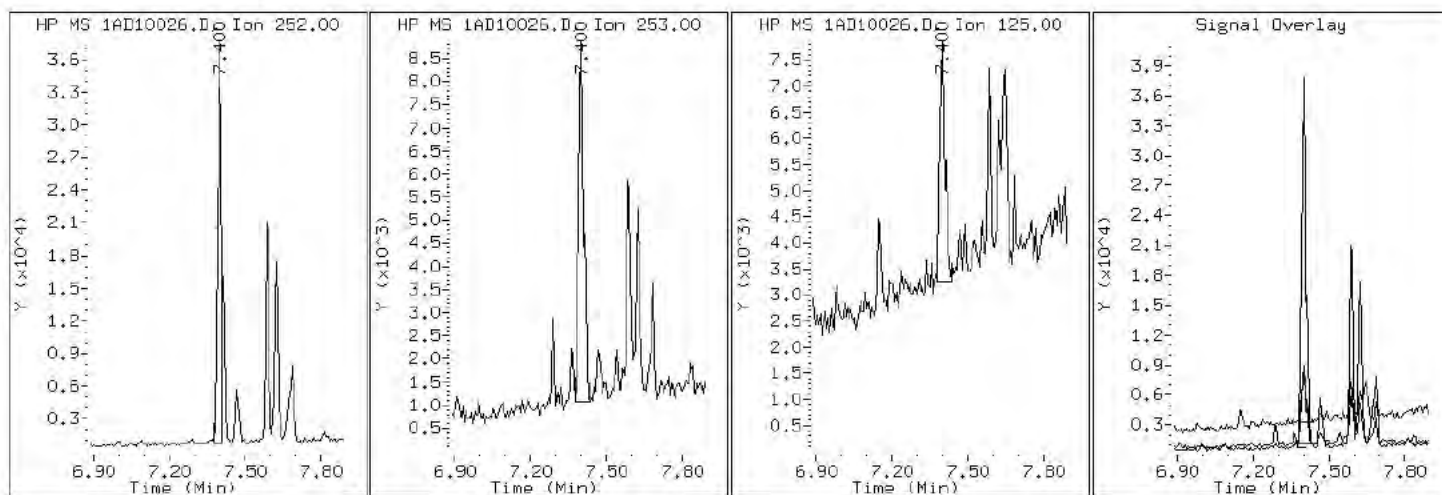
Client ID: FM0321B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-14-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10026.D

Date: 10-APR-2013 18:27

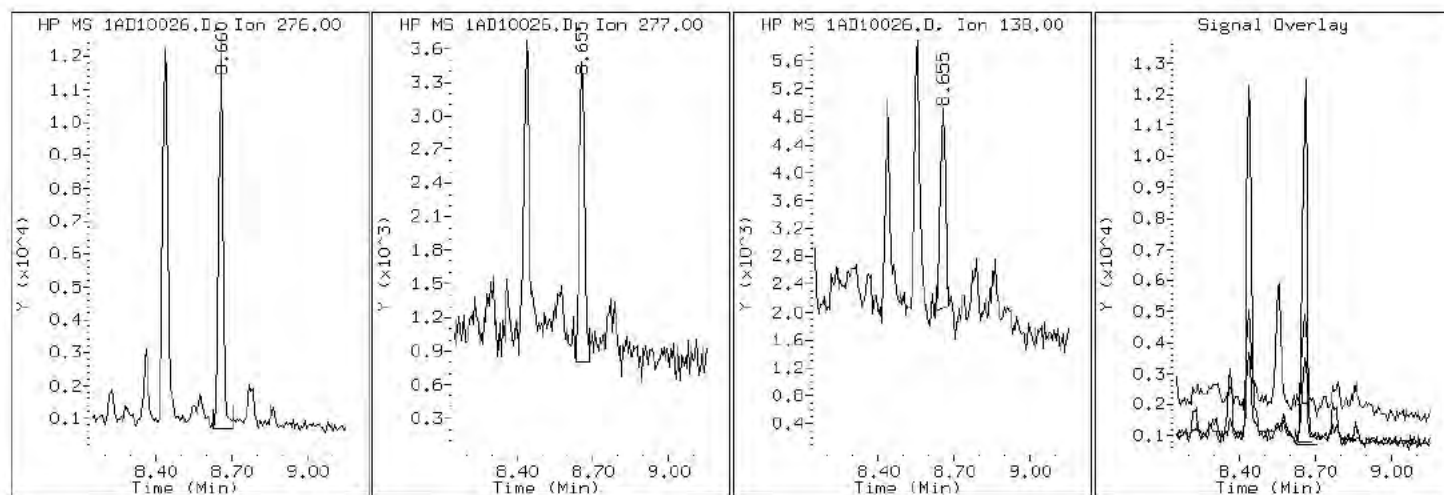
Client ID: FM0321B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-14-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10026.D

Date: 10-APR-2013 18:27

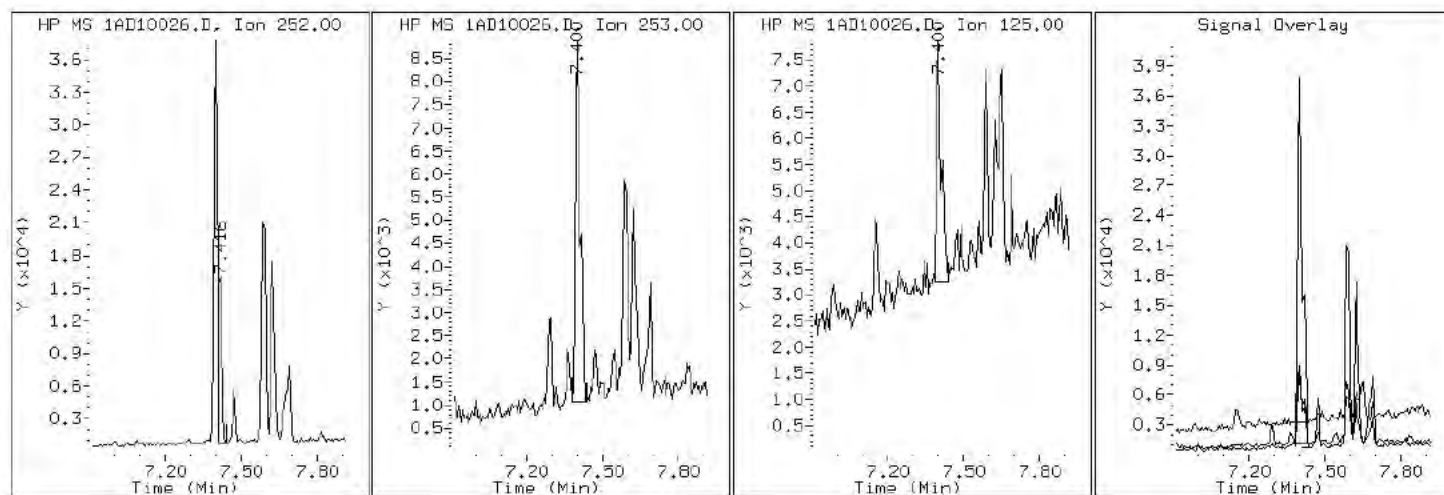
Client ID: FM0321B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-14-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10026.D

Date: 10-APR-2013 18:27

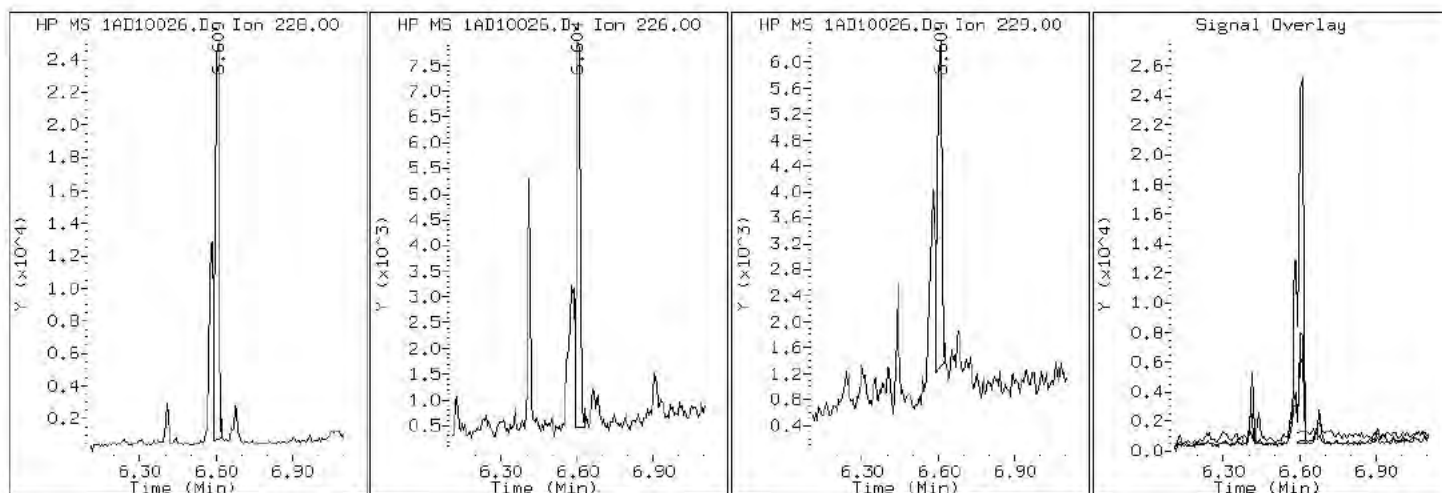
Client ID: FM0321B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-14-a

Operator: SCC

19 Chrysene



Data File: 1AD10026.D

Date: 10-APR-2013 18:27

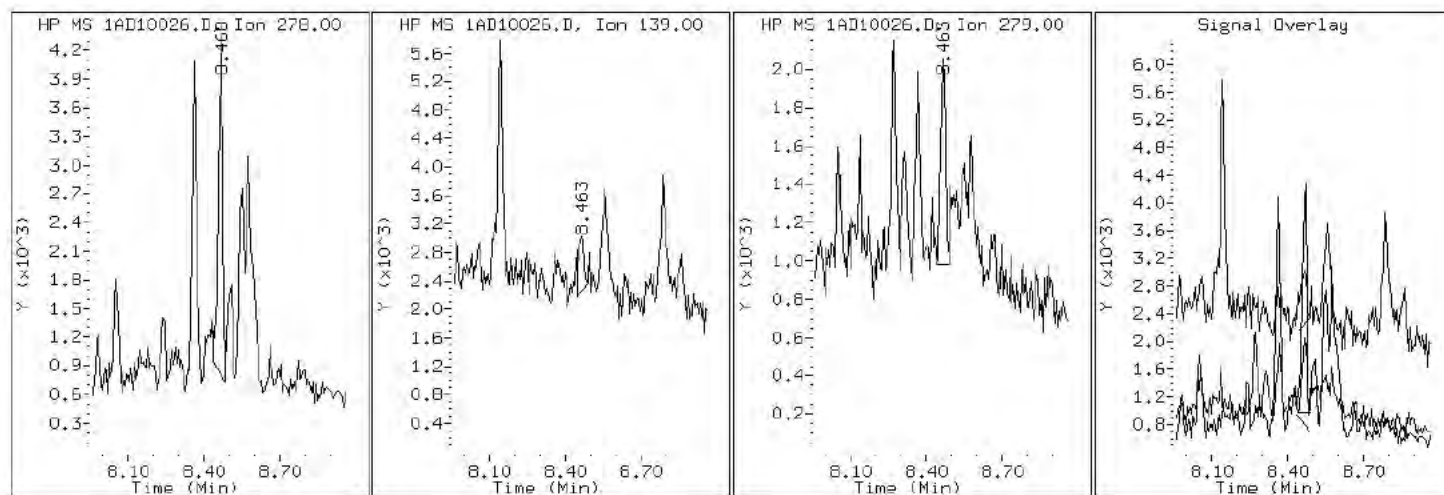
Client ID: FM0321B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-14-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD10026.D

Date: 10-APR-2013 18:27

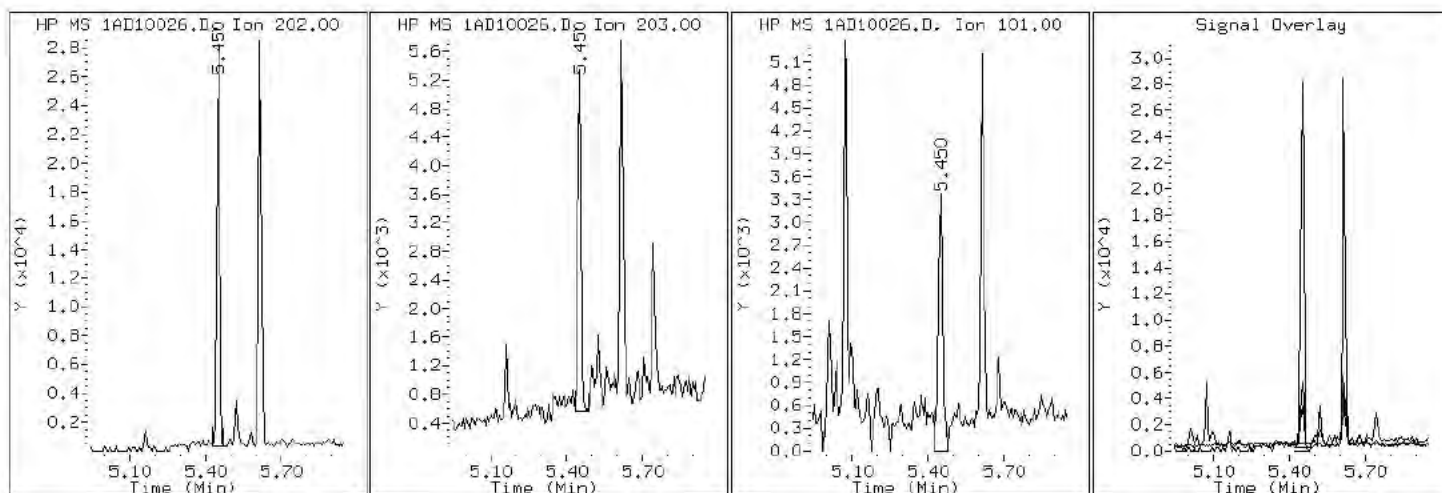
Client ID: FM0321B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-14-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10026.D

Date: 10-APR-2013 18:27

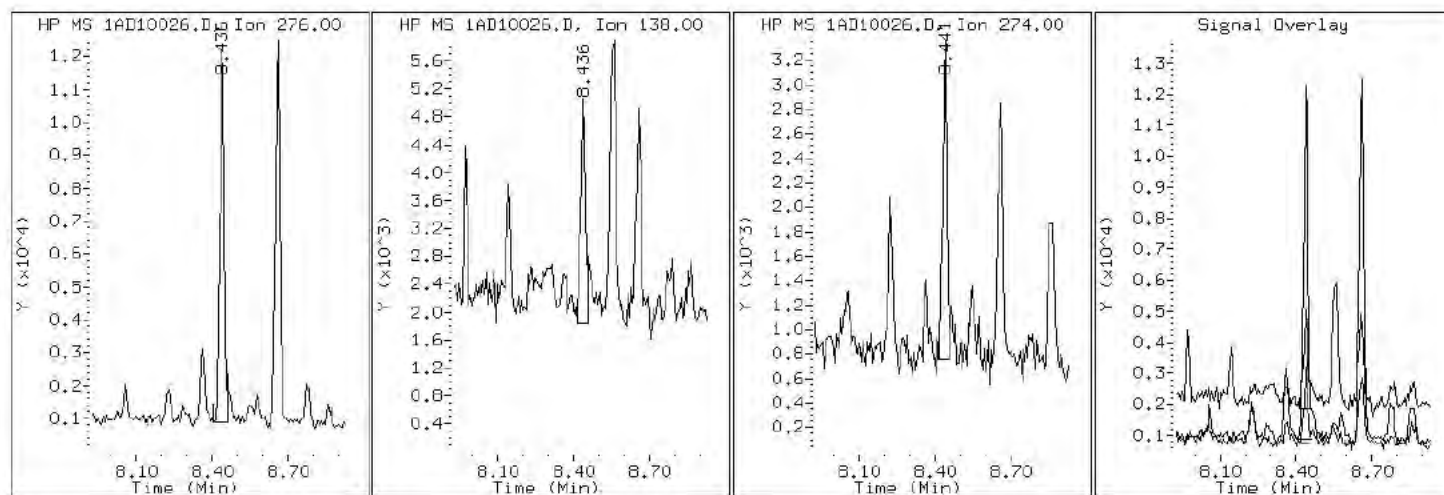
Client ID: FM0321B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-14-a

Operator: SCC

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



Data File: 1AD10026.D

Date: 10-APR-2013 18:27

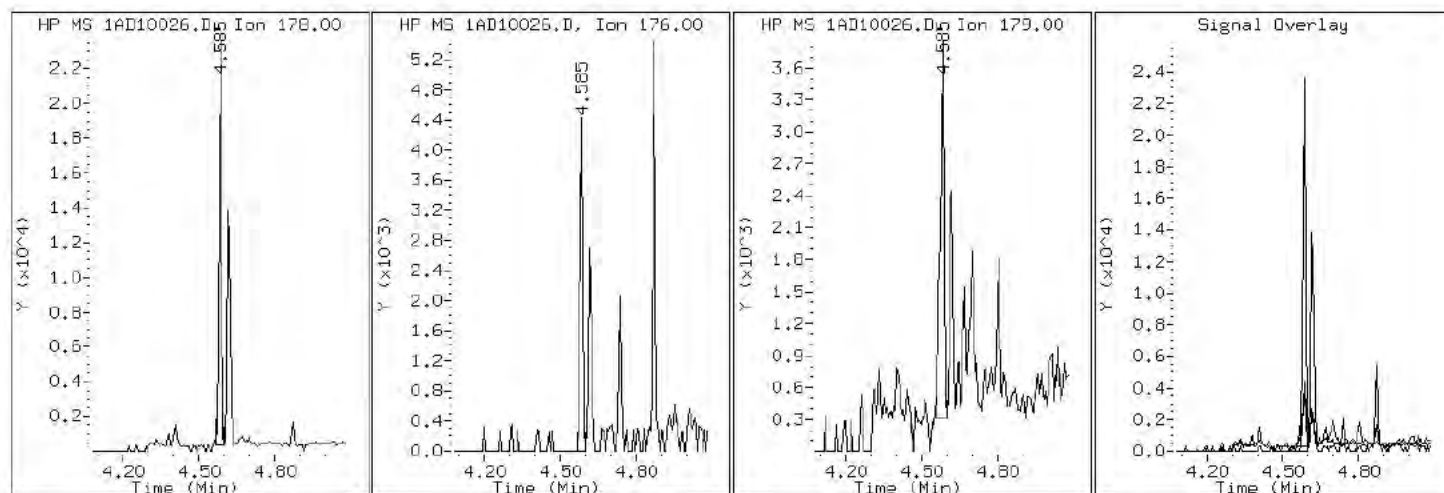
Client ID: FM0321B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-14-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10026.D

Date: 10-APR-2013 18:27

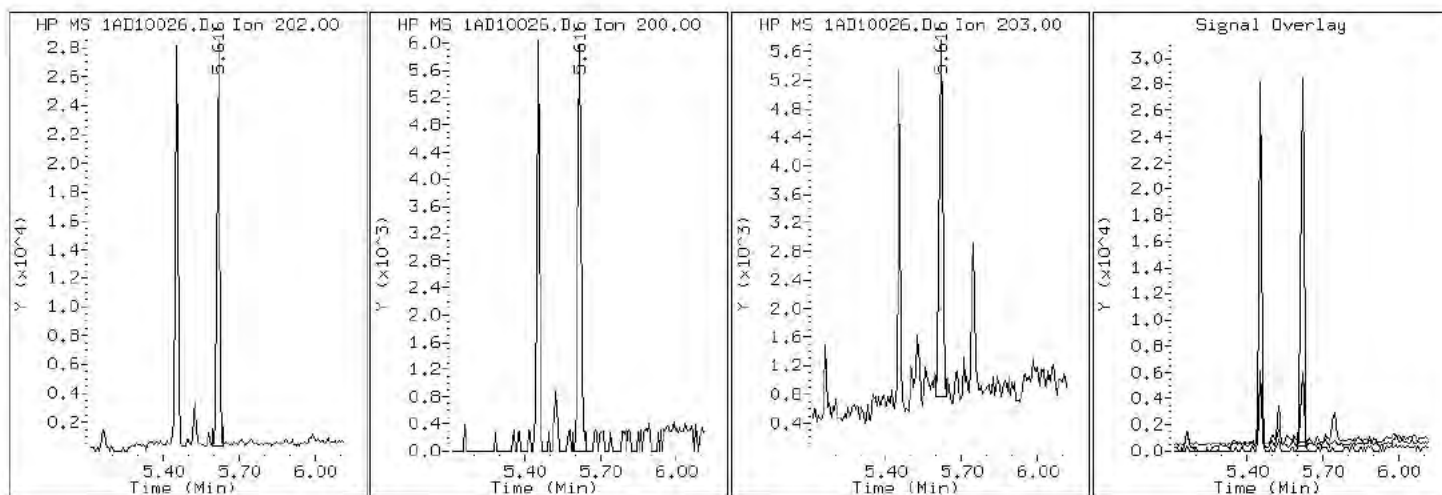
Client ID: FM0321B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-14-a

Operator: SCC

16 Pyrene

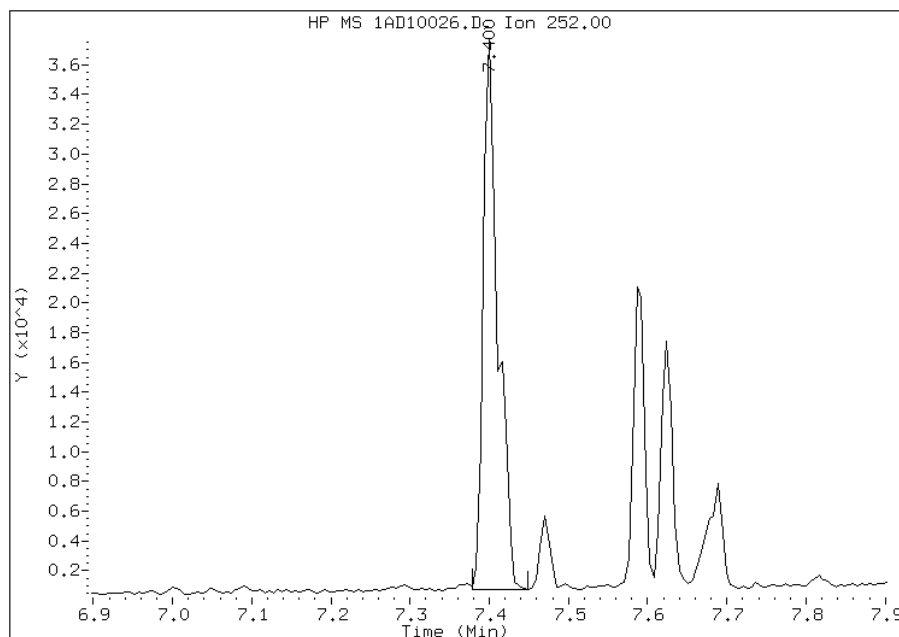


Manual Integration Report

Data File: 1AD10026.D
Inj. Date and Time: 10-APR-2013 18:27
Instrument ID: BSMA5973.i
Client ID: FM0321B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

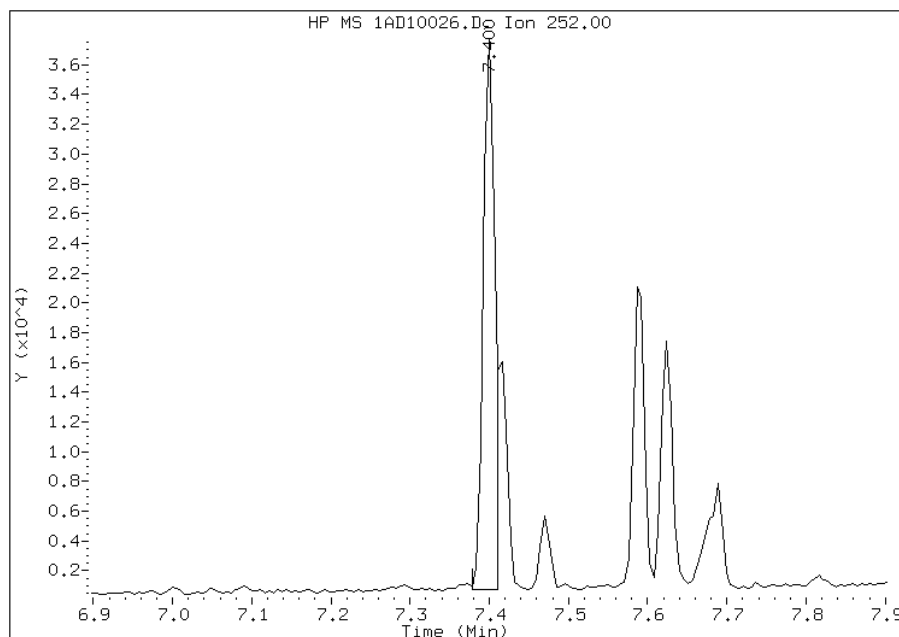
Processing Integration Results

RT: 7.40
Response: 46989
Amount: 1
Conc: 75



Manual Integration Results

RT: 7.40
Response: 37327
Amount: 1
Conc: 60



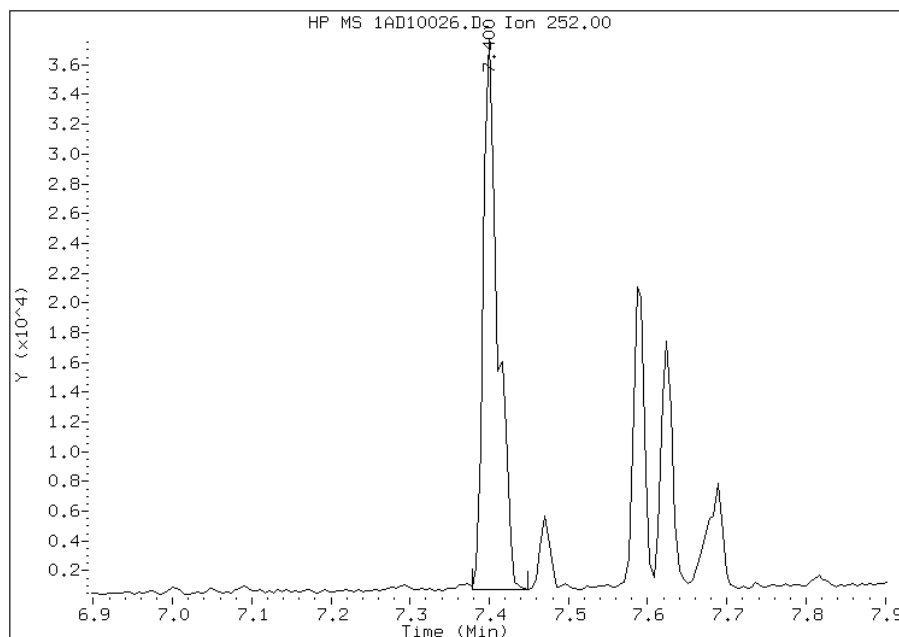
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10026.D
Inj. Date and Time: 10-APR-2013 18:27
Instrument ID: BSMA5973.i
Client ID: FM0321B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

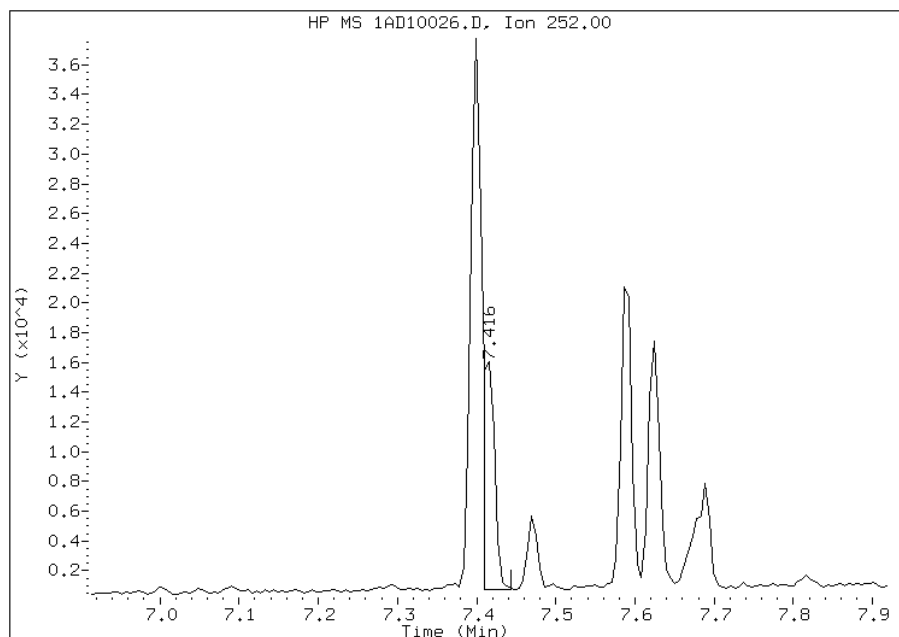
Processing Integration Results

RT: 7.40
Response: 46989
Amount: 1
Conc: 68



Manual Integration Results

RT: 7.42
Response: 14353
Amount: 0
Conc: 21



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:25
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>FM0326A-CS</u>	Lab Sample ID: <u>680-88913-15</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10027.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 13:35</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.49(g)</u>	Date Analyzed: <u>04/10/2013 18:42</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>18.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	48	U	48	6.0
120-12-7	Anthracene	10	U	10	5.0
56-55-3	Benzo[a]anthracene	34		9.5	4.7
50-32-8	Benzo[a]pyrene	40		12	6.2
205-99-2	Benzo[b]fluoranthene	65		15	7.3
191-24-2	Benzo[g,h,i]perylene	35		24	5.3
207-08-9	Benzo[k]fluoranthene	22		9.5	4.3
218-01-9	Chrysene	49		11	5.4
53-70-3	Dibenz(a,h)anthracene	11	J	24	4.9
206-44-0	Fluoranthene	50		24	4.8
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	64		24	8.5
90-12-0	1-Methylnaphthalene	48	U	48	5.3
91-57-6	2-Methylnaphthalene	33	J	48	8.5
91-20-3	Naphthalene	48	U	48	5.3
85-01-8	Phenanthrene	49		9.5	4.7
129-00-0	Pyrene	47		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\1A041013.b\1AD10027.D
Lab Smp Id: 680-88913-A-15-A Client Smp ID: FM0326A-CS
Inj Date : 10-APR-2013 18:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-88913-a-15-a
Misc Info : 680-88913-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1A-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{\text{Vi}} * \frac{\text{Vt}}{\text{Ws}} * \frac{100}{(100 - \text{M})} * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.490	Weight Extracted
M	18.876	% 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.594	2.584	(1.000)		1626190	40.0000	
* 6 Acenaphthene-d10	164		3.619	3.615	(1.000)		860786	40.0000	
* 10 Phenanthrene-d10	188		4.575	4.571	(1.000)		1317459	40.0000	
\$ 14 o-Terphenyl	230		4.874	4.870	(1.065)		131615	4.60417	366.3974
* 18 Chrysene-d12	240		6.594	6.585	(1.000)		1342761	40.0000	
* 23 Perylene-d12	264		7.678	7.664	(1.000)		1629381	40.0000	
3 2-Methylnaphthalene	141		3.005	3.001	(1.159)		8411	0.41745	33.2207
11 Phenanthrene	178		4.586	4.582	(1.002)		20450	0.61517	48.9545
13 Carbazole	167		4.752	4.747	(1.039)		2686	0.11986	9.5382(Q)
15 Fluoranthene	202		5.451	5.447	(1.191)		34186	0.62385	49.6453
16 Pyrene	202		5.617	5.613	(0.852)		30271	0.58503	46.5567
17 Benzo(a)anthracene	228		6.583	6.574	(0.998)		19393	0.43297	34.4557
19 Chrysene	228		6.605	6.606	(1.002)		28011	0.61318	48.7967
20 Benzo(b)fluoranthene	252		7.401	7.391	(0.964)		40374	0.81719	65.0318(M)

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
21 Benzo(k)fluoranthene	252	7.411	7.413	(0.965)	15074	0.27471	21.8612(QM)
22 Benzo(a)pyrene	252	7.625	7.616	(0.993)	23417	0.49843	39.6651
24 Indeno(1,2,3-cd)pyrene	276	8.442	8.427	(1.099)	18905	0.80201	63.8232(M)
25 Dibenzo(a,h)anthracene	278	8.464	8.459	(1.102)	5775	0.14019	11.1565
26 Benzo(g,h,i)perylene	276	8.656	8.651	(1.127)	19383	0.43676	34.7575

QC Flag Legend

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

Data File: 1AD10027.D

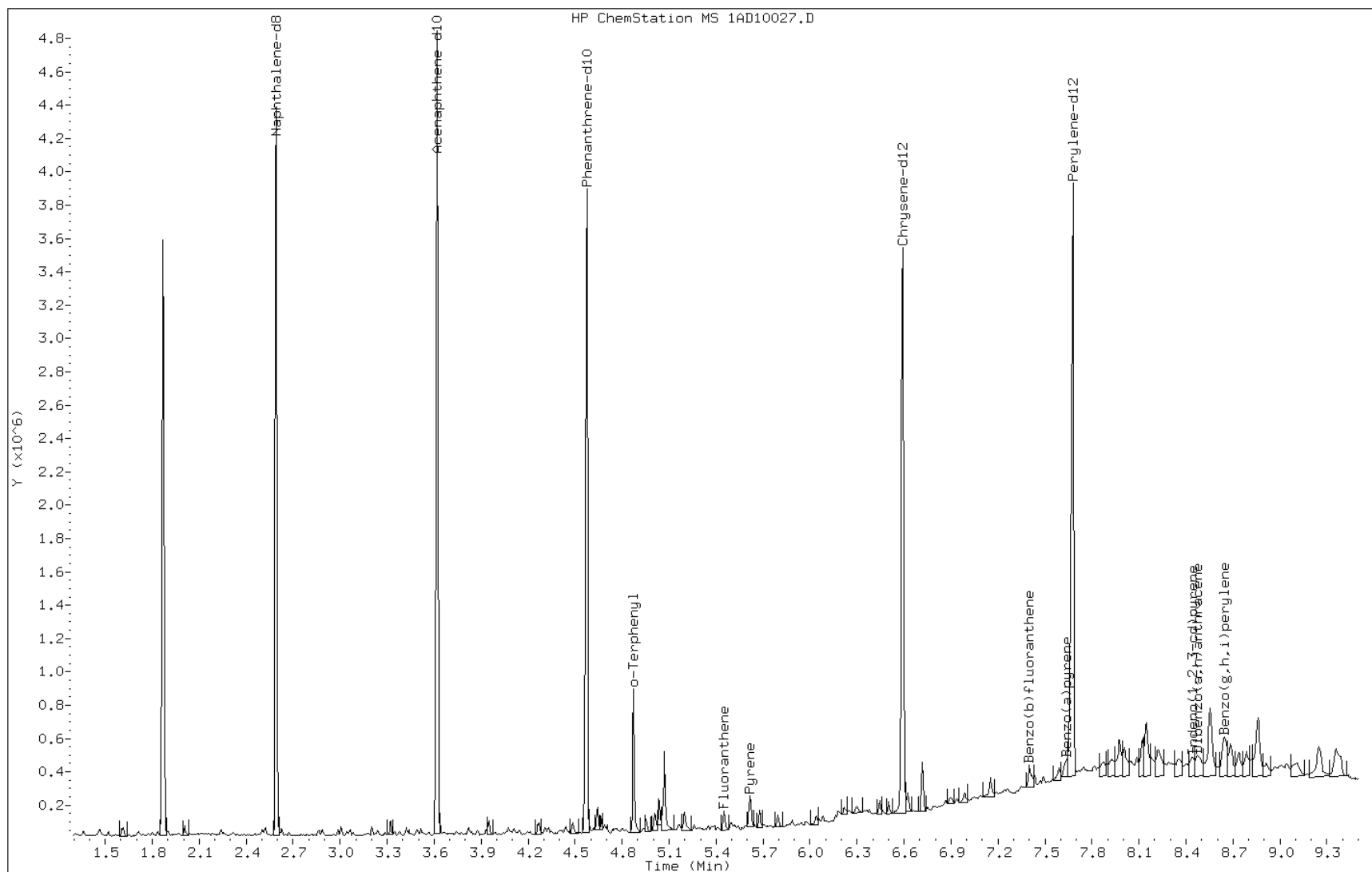
Date: 10-APR-2013 18:42

Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC



Data File: 1AD10027.D

Date: 10-APR-2013 18:42

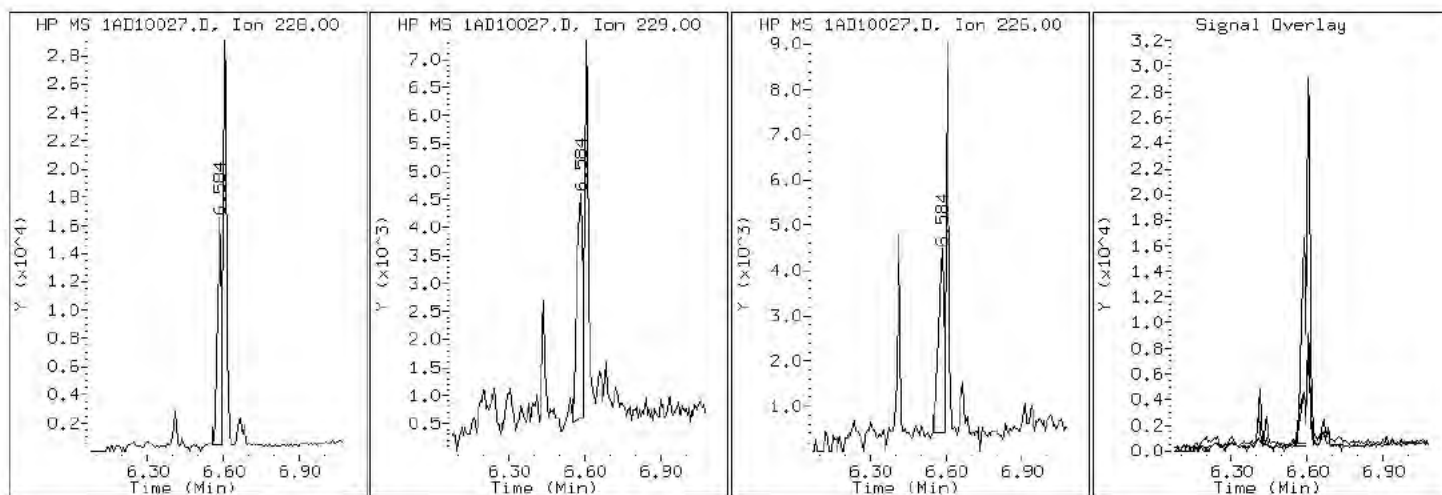
Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10027.D

Date: 10-APR-2013 18:42

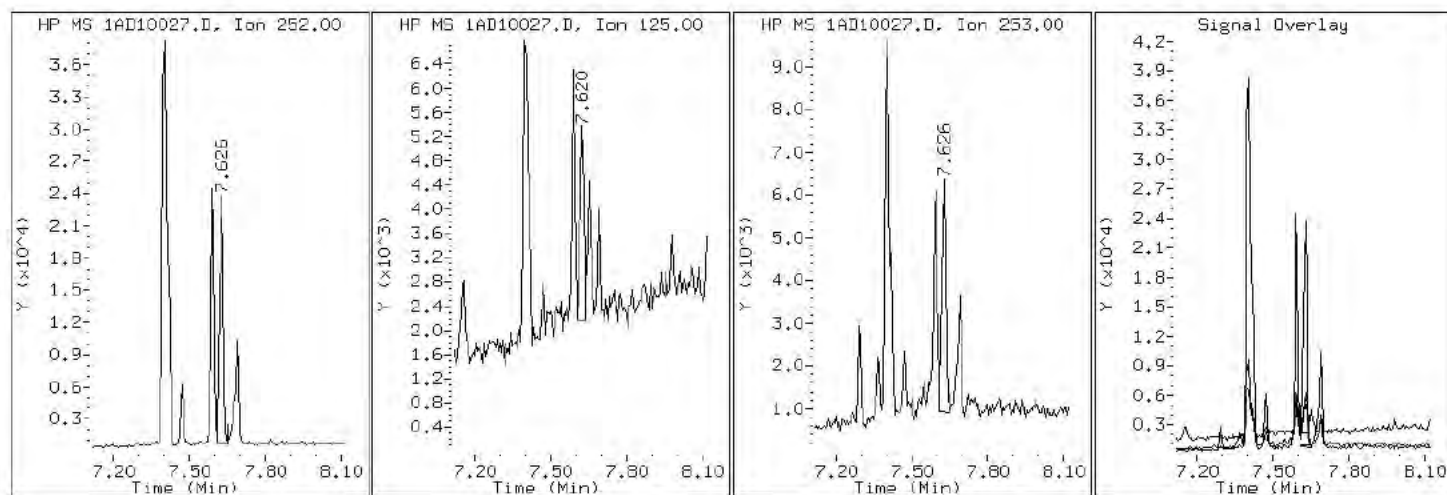
Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10027.D

Date: 10-APR-2013 18:42

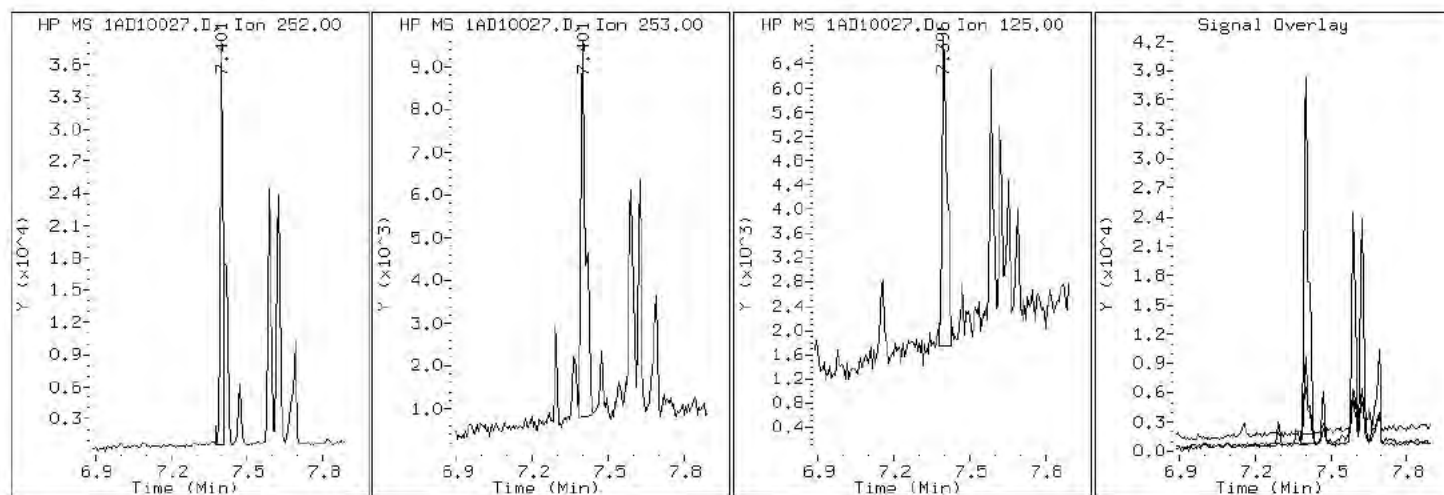
Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10027.D

Date: 10-APR-2013 18:42

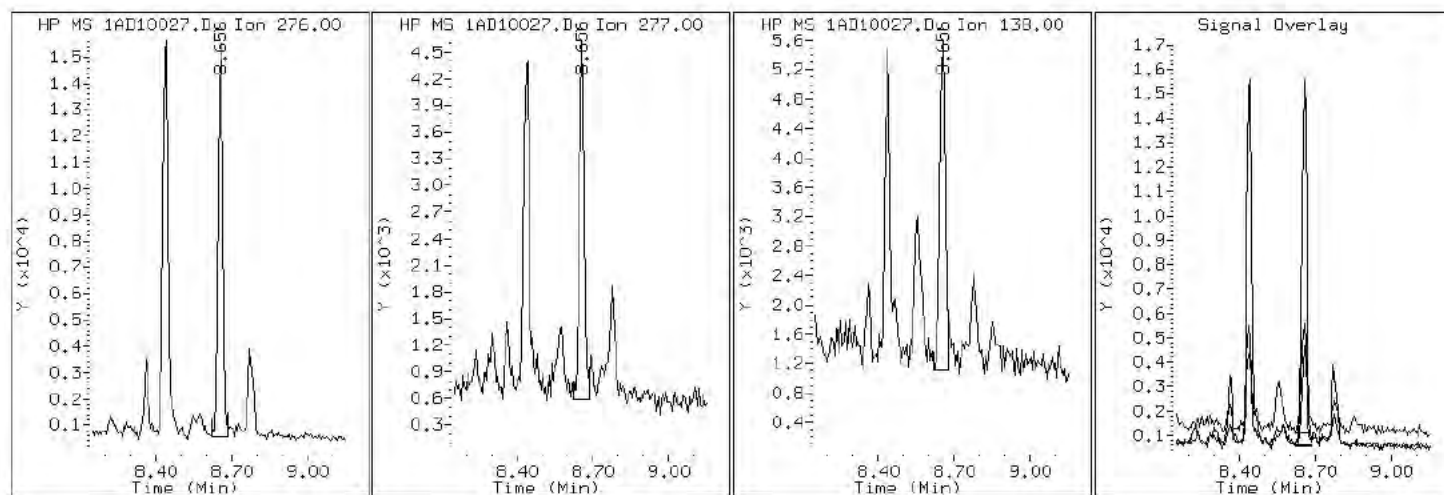
Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10027.D

Date: 10-APR-2013 18:42

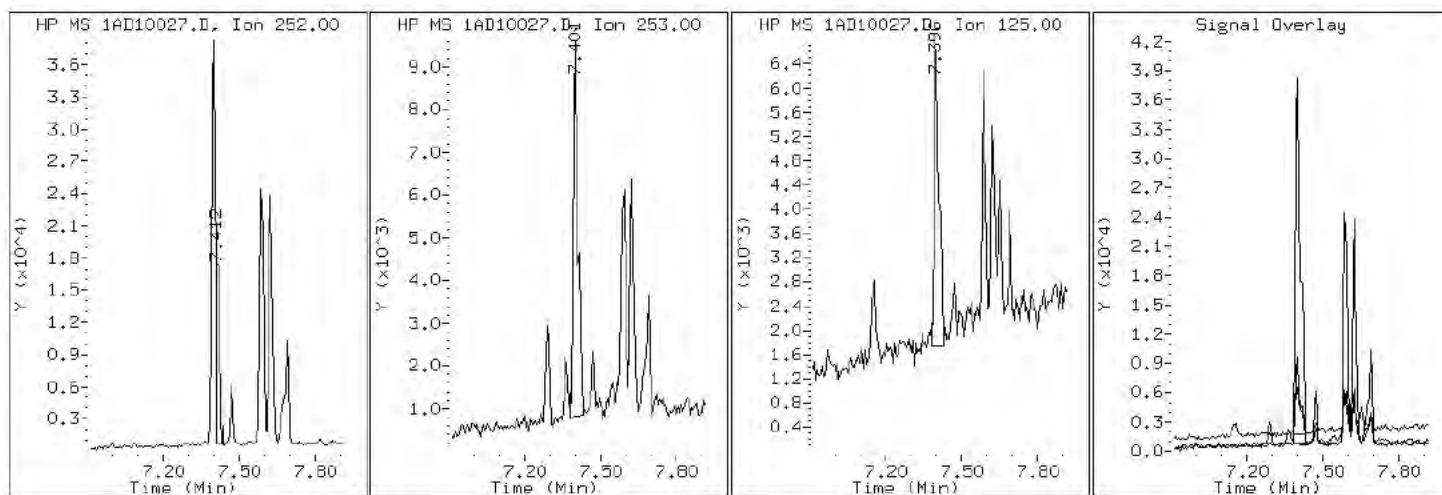
Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10027.D

Date: 10-APR-2013 18:42

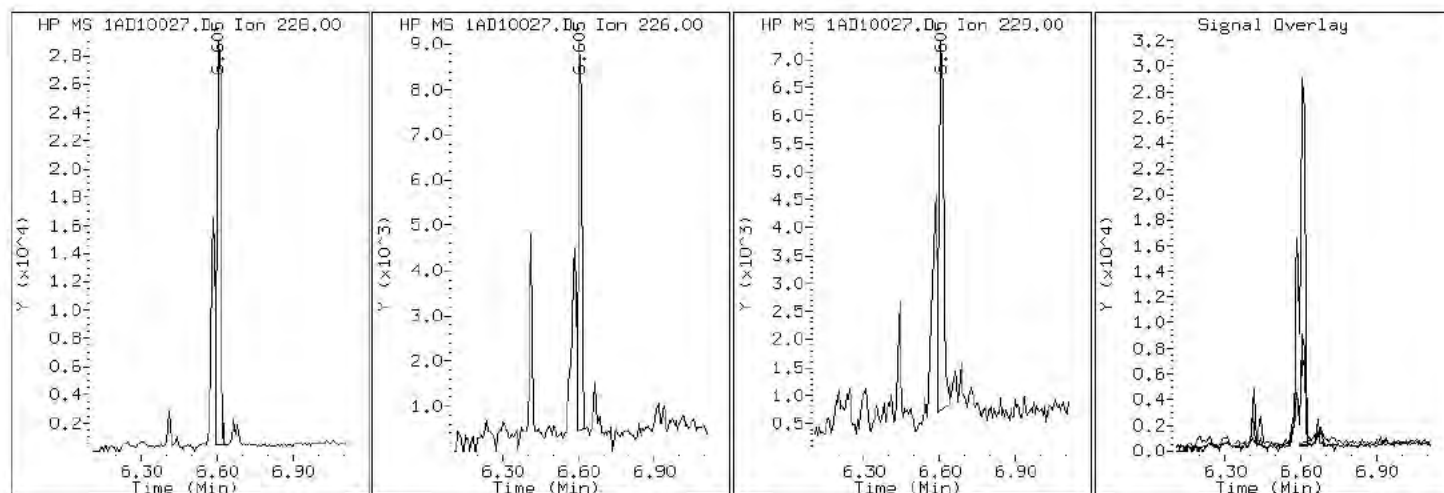
Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC

19 Chrysene



Data File: 1AD10027.D

Date: 10-APR-2013 18:42

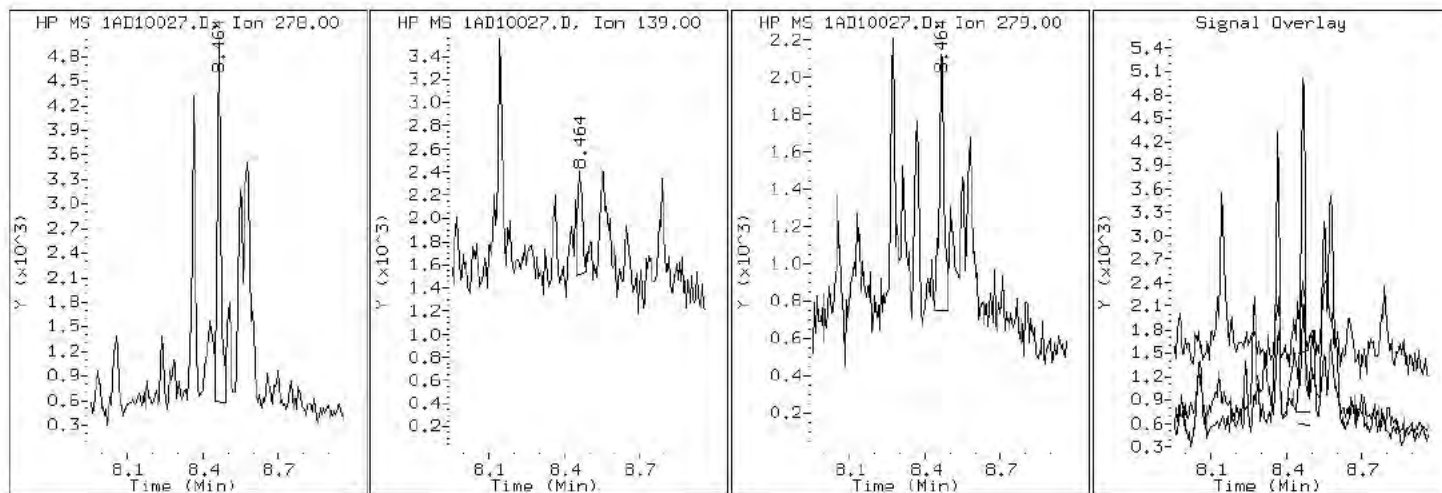
Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD10027.D

Date: 10-APR-2013 18:42

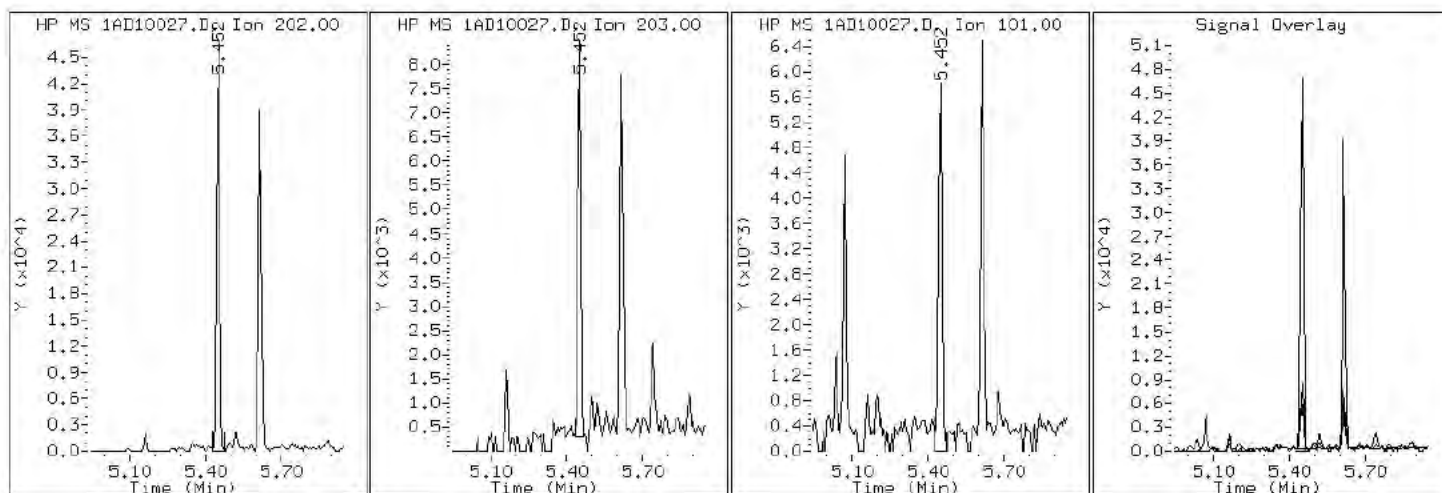
Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10027.D

Date: 10-APR-2013 18:42

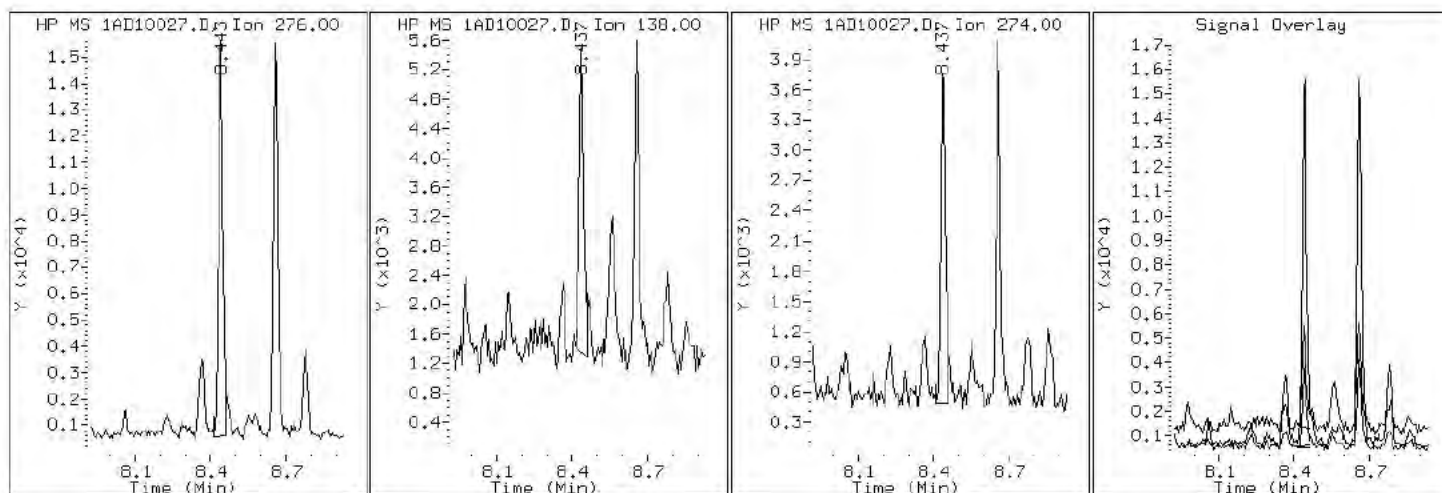
Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC

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



Data File: 1AD10027.D

Date: 10-APR-2013 18:42

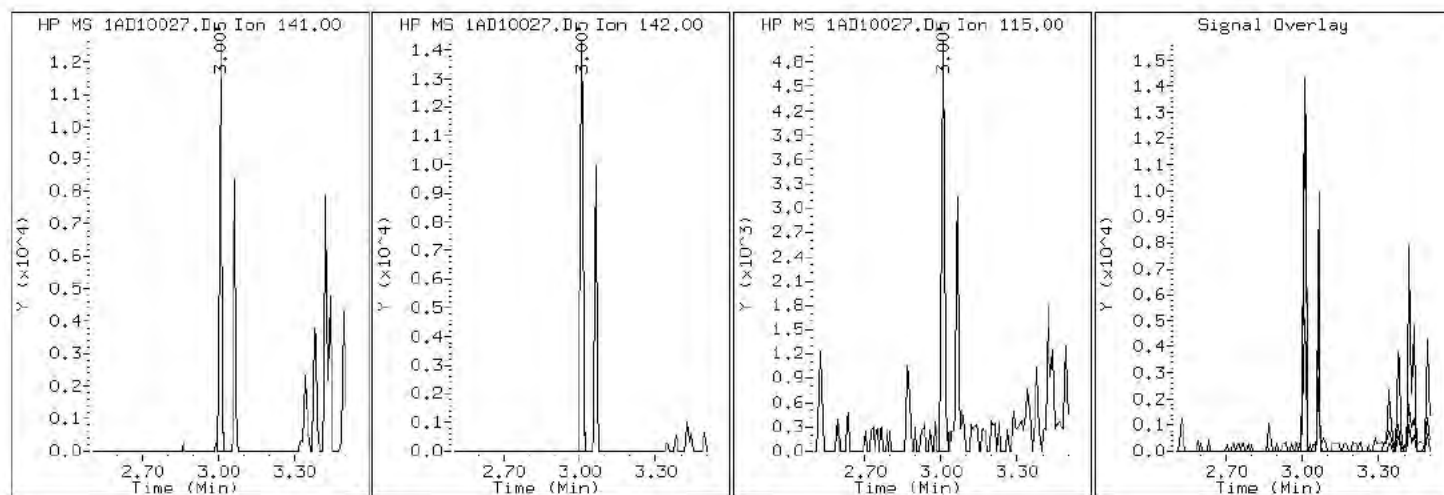
Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD10027.D

Date: 10-APR-2013 18:42

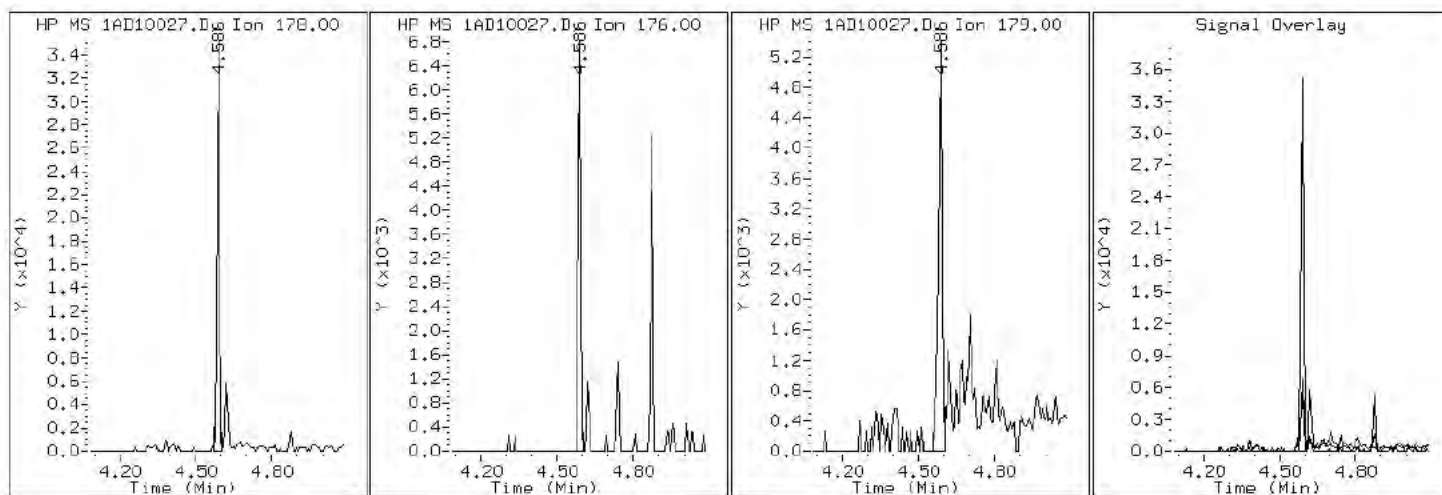
Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10027.D

Date: 10-APR-2013 18:42

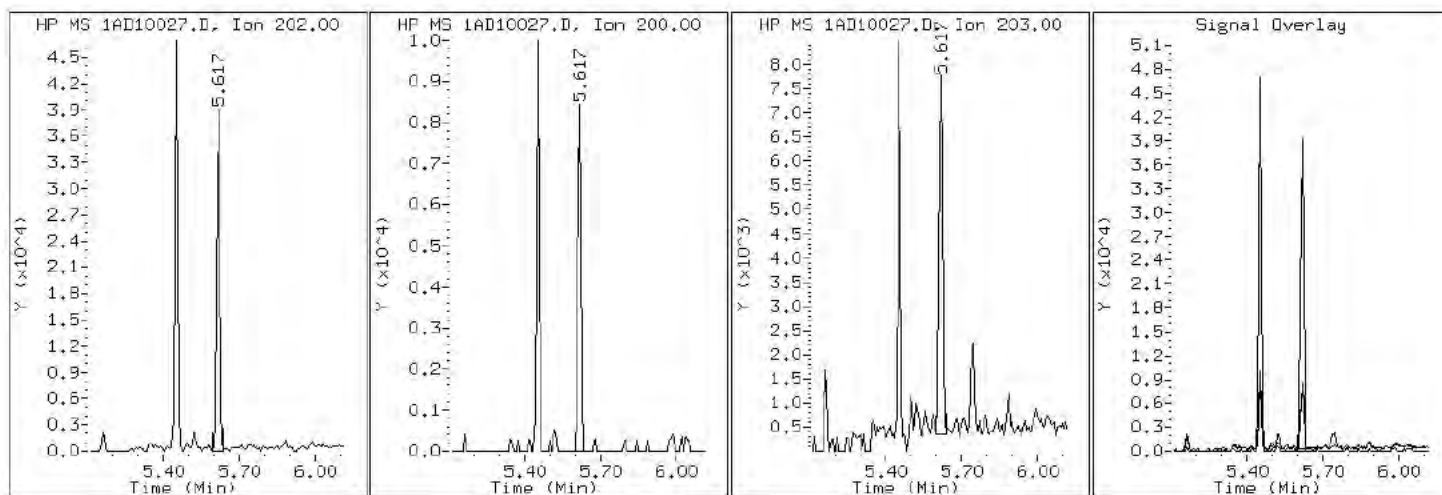
Client ID: FM0326A-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-15-a

Operator: SCC

16 Pyrene

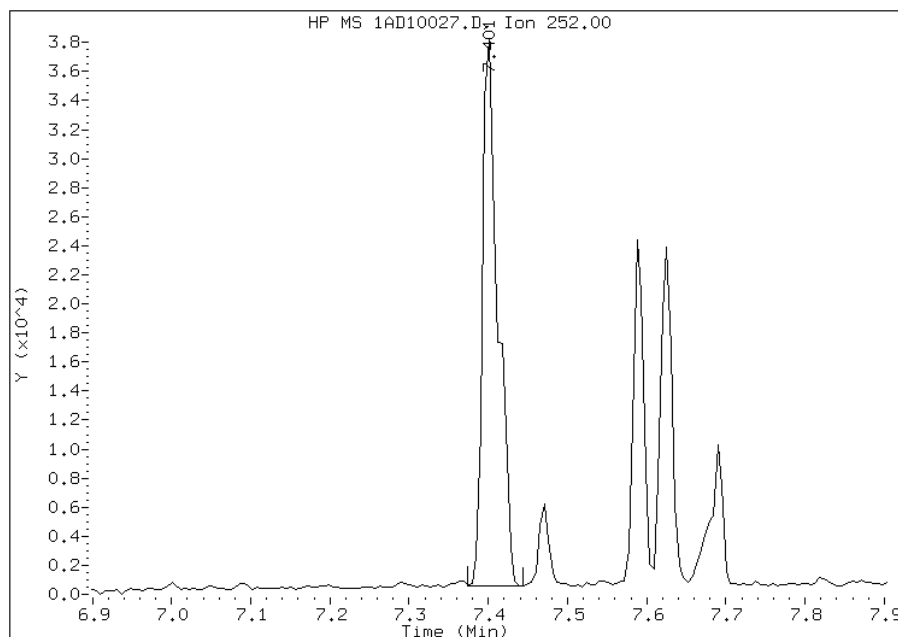


Manual Integration Report

Data File: 1AD10027.D
Inj. Date and Time: 10-APR-2013 18:42
Instrument ID: BSMA5973.i
Client ID: FM0326A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

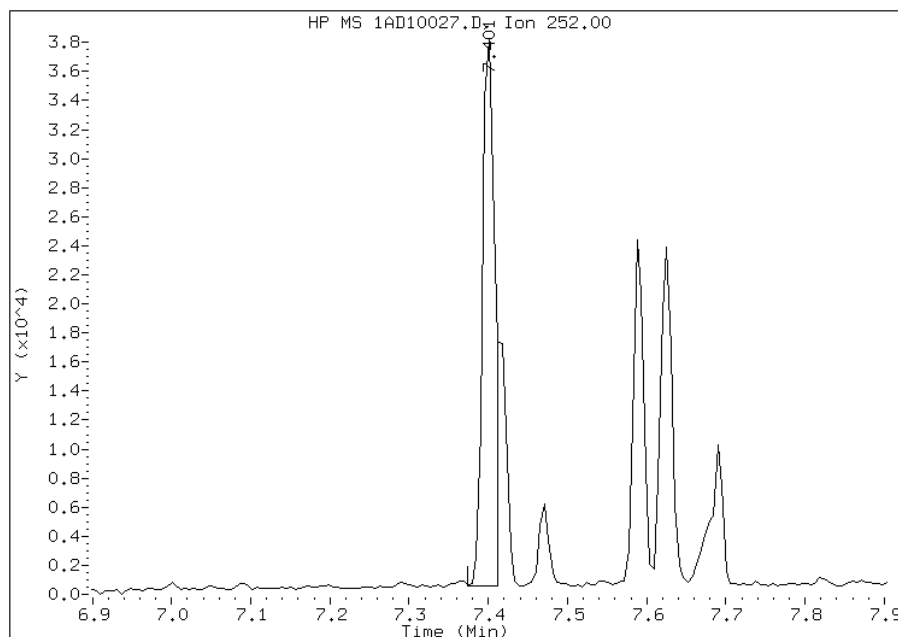
Processing Integration Results

RT: 7.40
Response: 50201
Amount: 1
Conc: 81



Manual Integration Results

RT: 7.40
Response: 40374
Amount: 1
Conc: 65



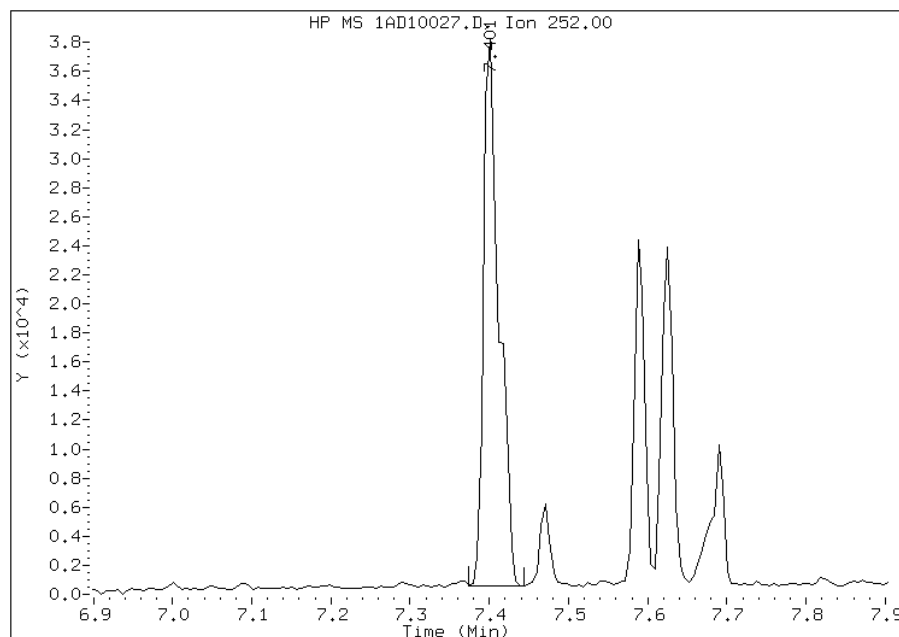
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:26
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10027.D
Inj. Date and Time: 10-APR-2013 18:42
Instrument ID: BSMA5973.i
Client ID: FM0326A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

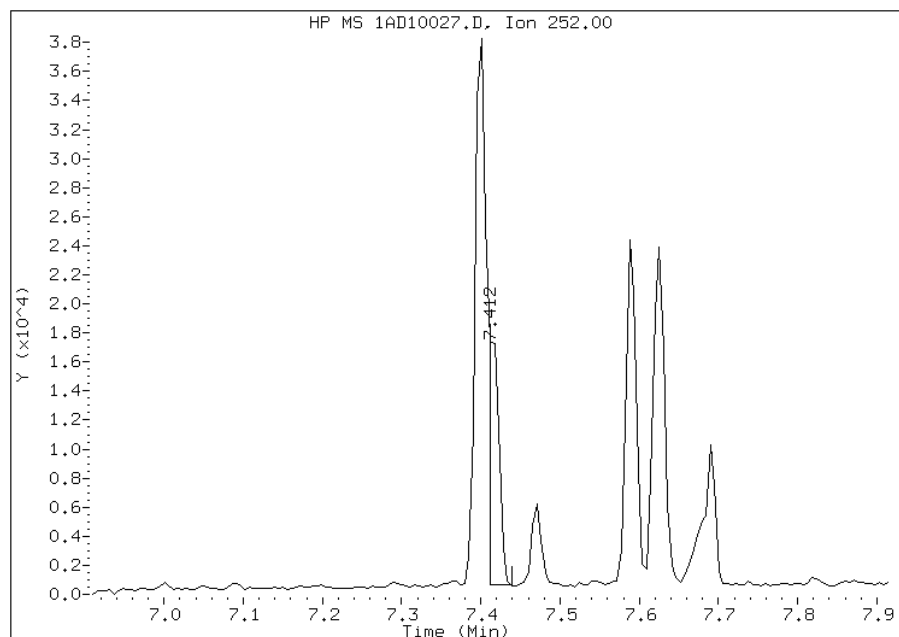
Processing Integration Results

RT: 7.40
Response: 50201
Amount: 1
Conc: 73



Manual Integration Results

RT: 7.41
Response: 15074
Amount: 0
Conc: 22



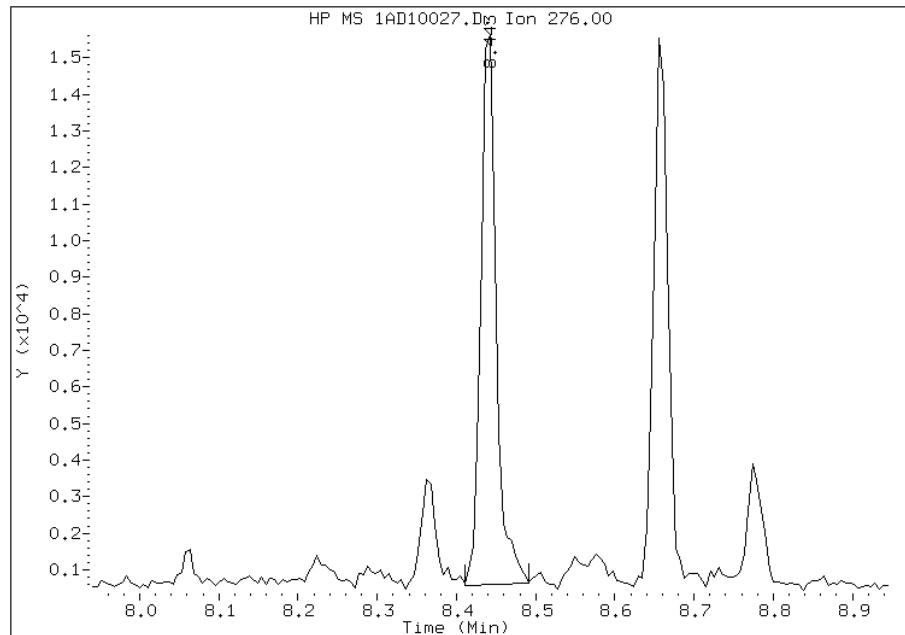
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10027.D
Inj. Date and Time: 10-APR-2013 18:42
Instrument ID: BSMA5973.i
Client ID: FM0326A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

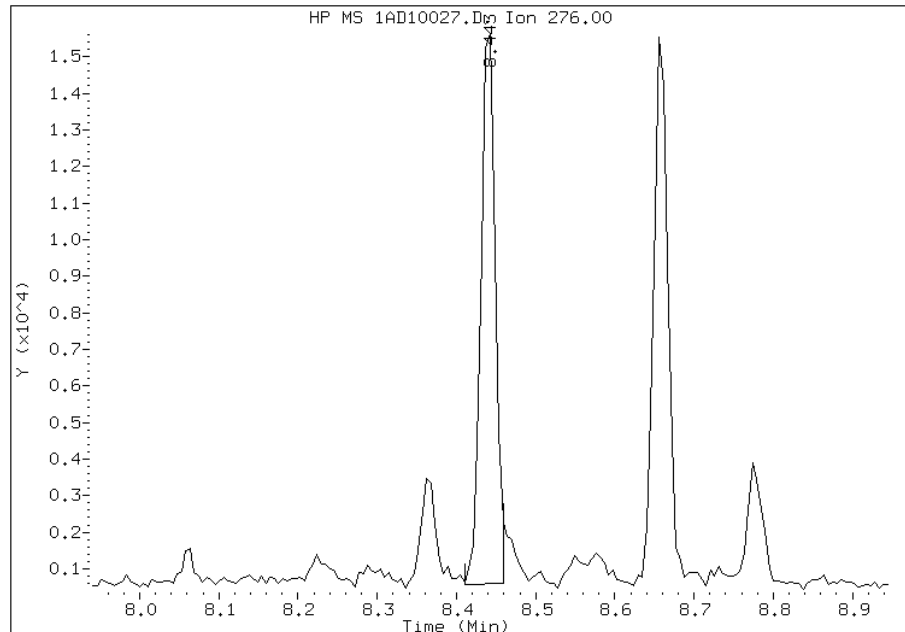
Processing Integration Results

RT: 8.44
Response: 20136
Amount: 1
Conc: 66



Manual Integration Results

RT: 8.44
Response: 18905
Amount: 1
Conc: 64



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>FM0326B-CS</u>	Lab Sample ID: <u>680-88913-16</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10028.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 13:44</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>14.96(g)</u>	Date Analyzed: <u>04/10/2013 18:57</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>21.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	200	U	200	26
120-12-7	Anthracene	43	U	43	21
56-55-3	Benzo[a]anthracene	110		41	20
50-32-8	Benzo[a]pyrene	100		53	27
205-99-2	Benzo[b]fluoranthene	180		62	31
191-24-2	Benzo[g,h,i]perylene	89	J	100	22
207-08-9	Benzo[k]fluoranthene	52		41	18
218-01-9	Chrysene	120		46	23
53-70-3	Dibenz(a,h)anthracene	27	J	100	21
206-44-0	Fluoranthene	130		100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	220		100	36
90-12-0	1-Methylnaphthalene	200	U	200	22
91-57-6	2-Methylnaphthalene	200	U	200	36
91-20-3	Naphthalene	200	U	200	22
85-01-8	Phenanthrene	160		41	20
129-00-0	Pyrene	110		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10028.D
 Lab Smp Id: 680-88913-A-16-A Client Smp ID: FM0326B-CS
 Inj Date : 10-APR-2013 18:57
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-88913-a-16-a
 Misc Info : 680-88913-A-16-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10028.D
 Meth Date : 11-Apr-2013 10:31 cantins Quant Type: ISTD
 Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
 Als bottle: 28
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{\text{Vi}} * \frac{\text{Vt}}{\text{Ws}} * \frac{100}{(100 - \text{M})} * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	21.446	% 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							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	2.589	2.584	(1.000)	1608702	40.0000			
* 6 Acenaphthene-d10	164	3.619	3.615	(1.000)	844730	40.0000			
* 10 Phenanthrene-d10	188	4.575	4.571	(1.000)	1338295	40.0000			
\$ 14 o-Terphenyl	230	4.875	4.870	(1.065)	49643	1.66089	565.3263		
* 18 Chrysene-d12	240	6.589	6.585	(1.000)	1360571	40.0000			
* 23 Perylene-d12	264	7.679	7.664	(1.000)	1633247	40.0000			
11 Phenanthrene	178	4.586	4.582	(1.002)	11954	0.48192	164.0335		
15 Fluoranthene	202	5.451	5.447	(1.191)	20307	0.39152	133.2655		
16 Pyrene	202	5.617	5.613	(0.852)	16591	0.31645	107.7117		
17 Benzo(a)anthracene	228	6.584	6.574	(0.999)	14489	0.31925	108.6650		
19 Chrysene	228	6.605	6.606	(1.002)	16790	0.36273	123.4661		
20 Benzo(b)fluoranthene	252	7.396	7.391	(0.963)	25789	0.52075	177.2504(M)		
21 Benzo(k)fluoranthene	252	7.412	7.413	(0.965)	8377	0.15230	51.8398(QM)		
22 Benzo(a)pyrene	252	7.625	7.616	(0.993)	14091	0.29922	101.8468		

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
24 Indeno(1,2,3-cd)pyrene	276	8.437	8.427	(1.099)	11152	0.63665	216.7015(M)
25 Dibenzo(a,h)anthracene	278	8.464	8.459	(1.102)	3316	0.08031	27.3350
26 Benzo(g,h,i)perylene	276	8.656	8.651	(1.127)	11620	0.26122	88.9123

QC Flag Legend

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

Data File: 1AD10028.D

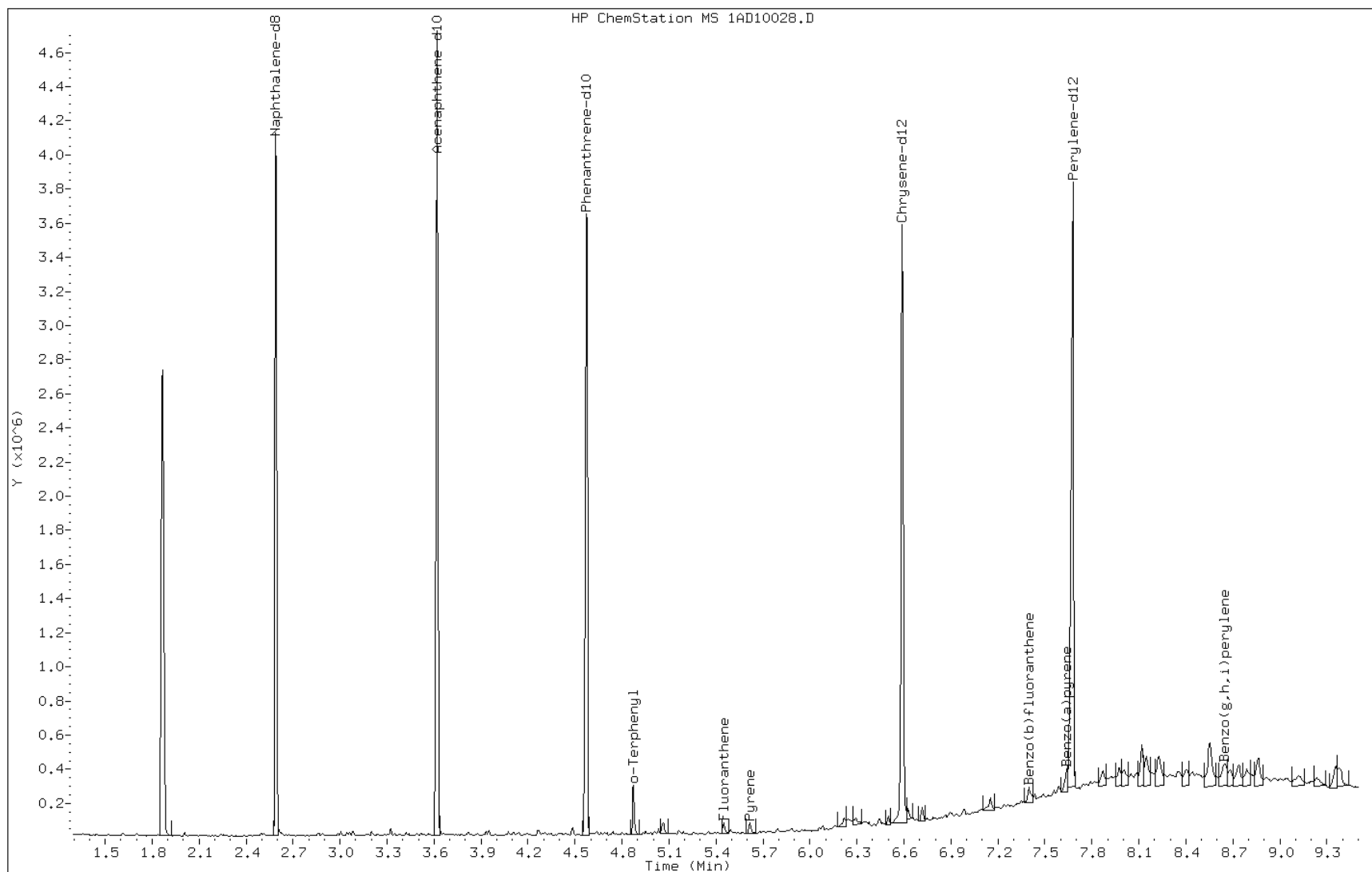
Date: 10-APR-2013 18:57

Client ID: FM0326B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-16-a

Operator: SCC



Data File: 1AD10028.D

Date: 10-APR-2013 18:57

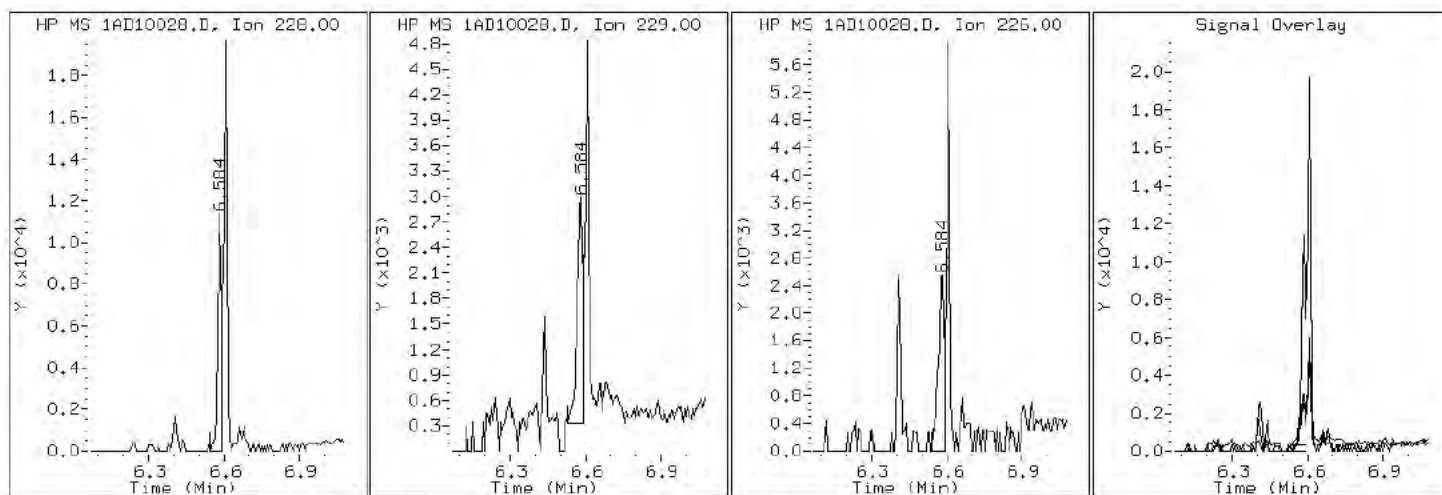
Client ID: FM0326B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-16-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD10028.D

Date: 10-APR-2013 18:57

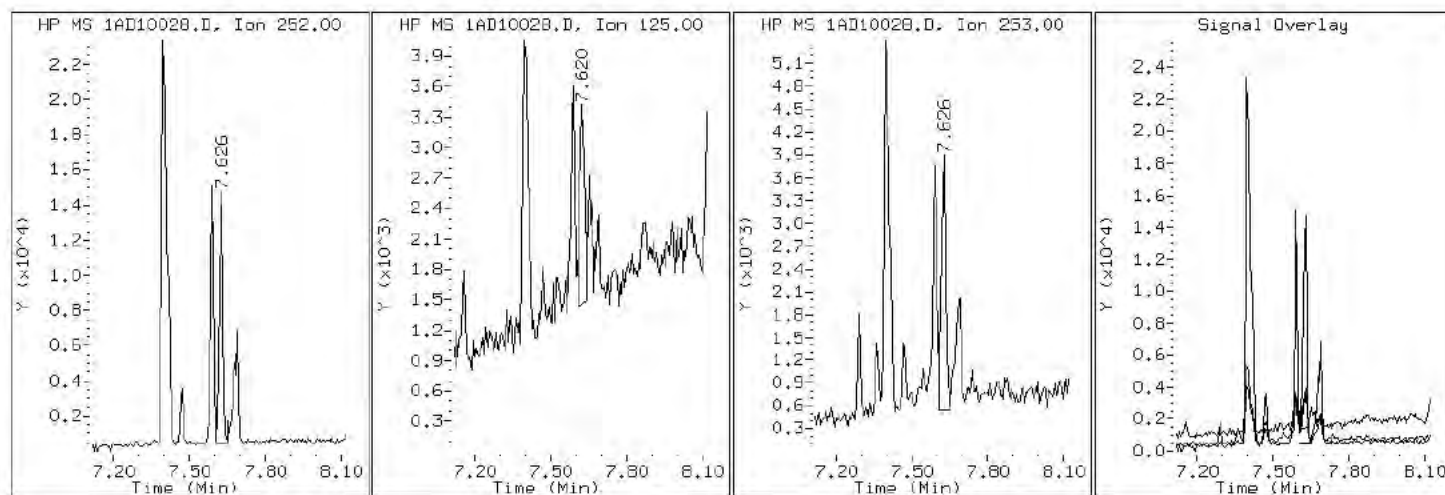
Client ID: FM0326B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-16-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD10028.D

Date: 10-APR-2013 18:57

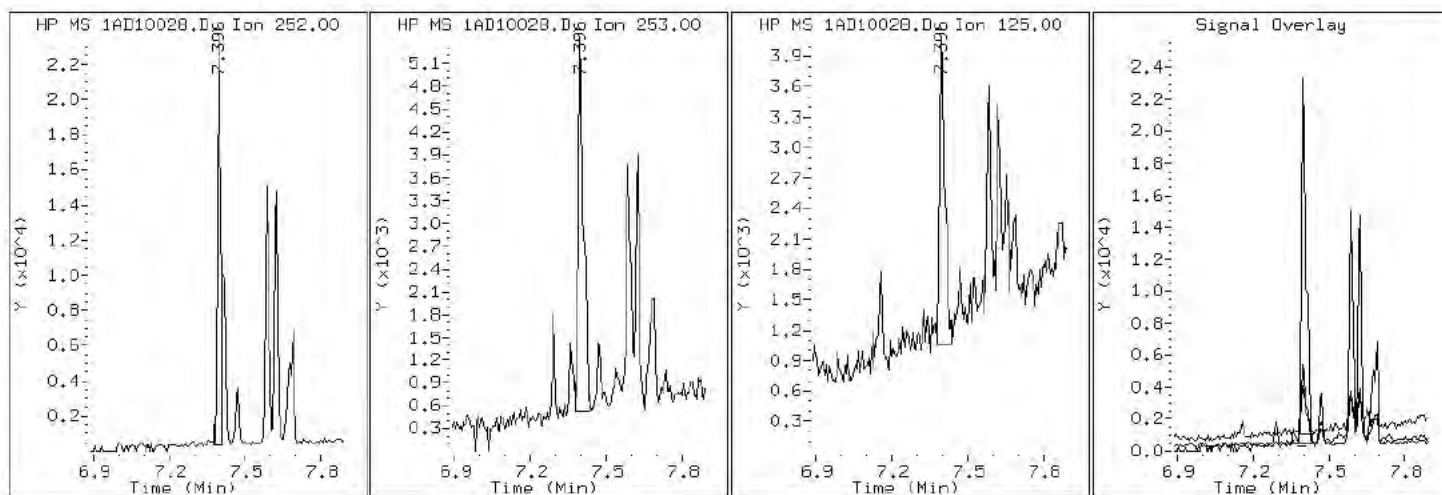
Client ID: FM0326B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-16-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD10028.D

Date: 10-APR-2013 18:57

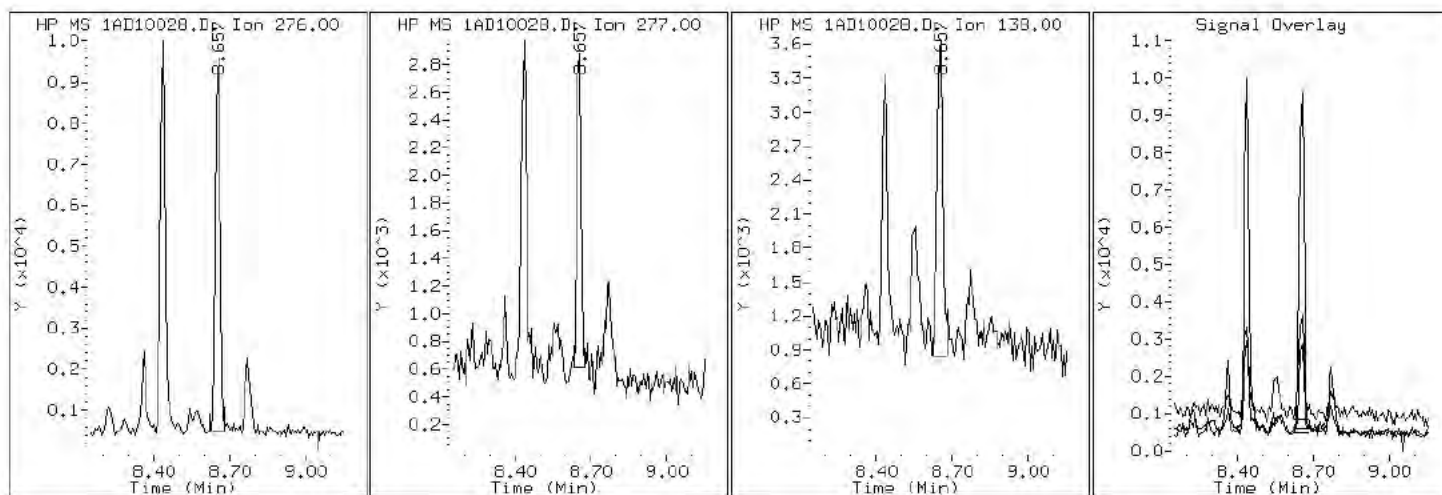
Client ID: FM0326B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-16-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD10028.D

Date: 10-APR-2013 18:57

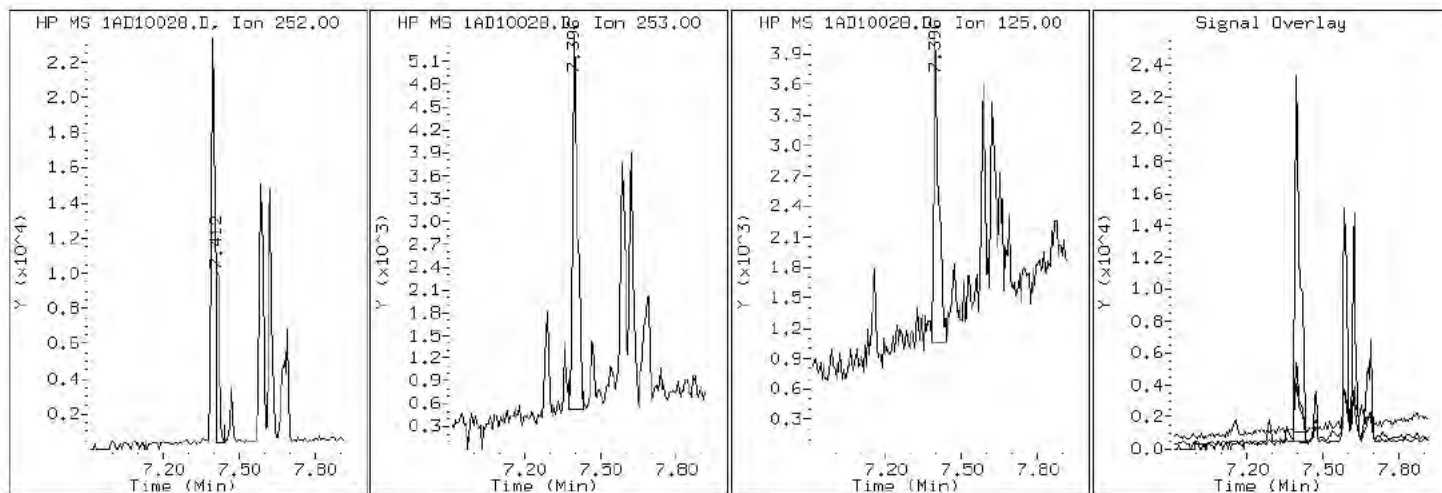
Client ID: FM0326B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-16-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD10028.D

Date: 10-APR-2013 18:57

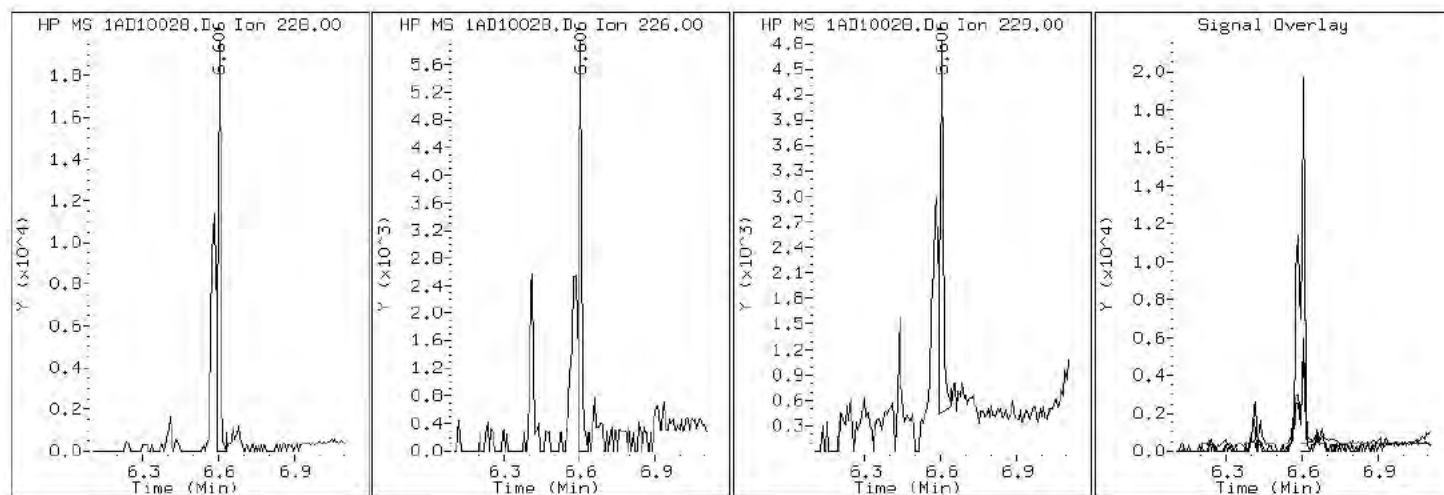
Client ID: FM0326B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-16-a

Operator: SCC

19 Chrysene



Data File: 1AD10028.D

Date: 10-APR-2013 18:57

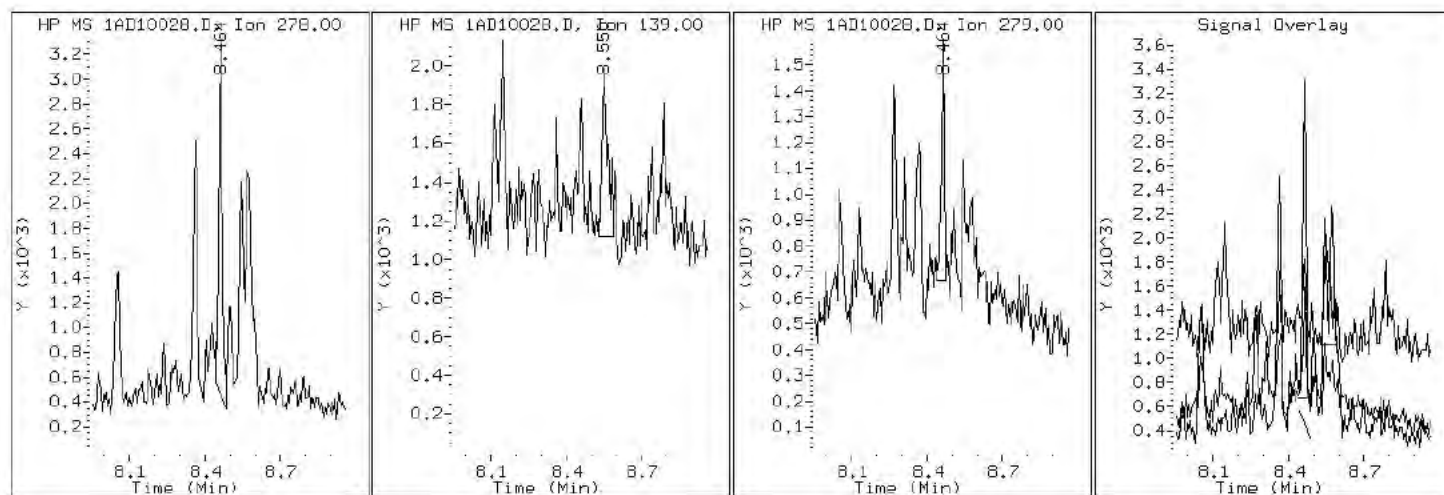
Client ID: FM0326B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-16-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD10028.D

Date: 10-APR-2013 18:57

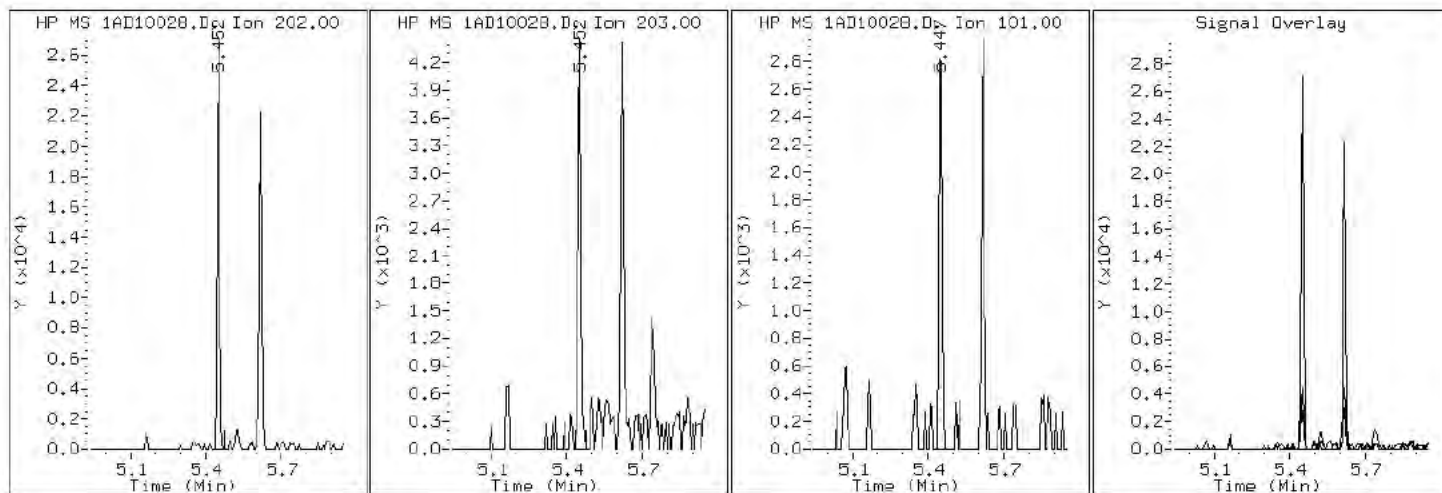
Client ID: FM0326B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-16-a

Operator: SCC

15 Fluoranthene



Data File: 1AD10028.D

Date: 10-APR-2013 18:57

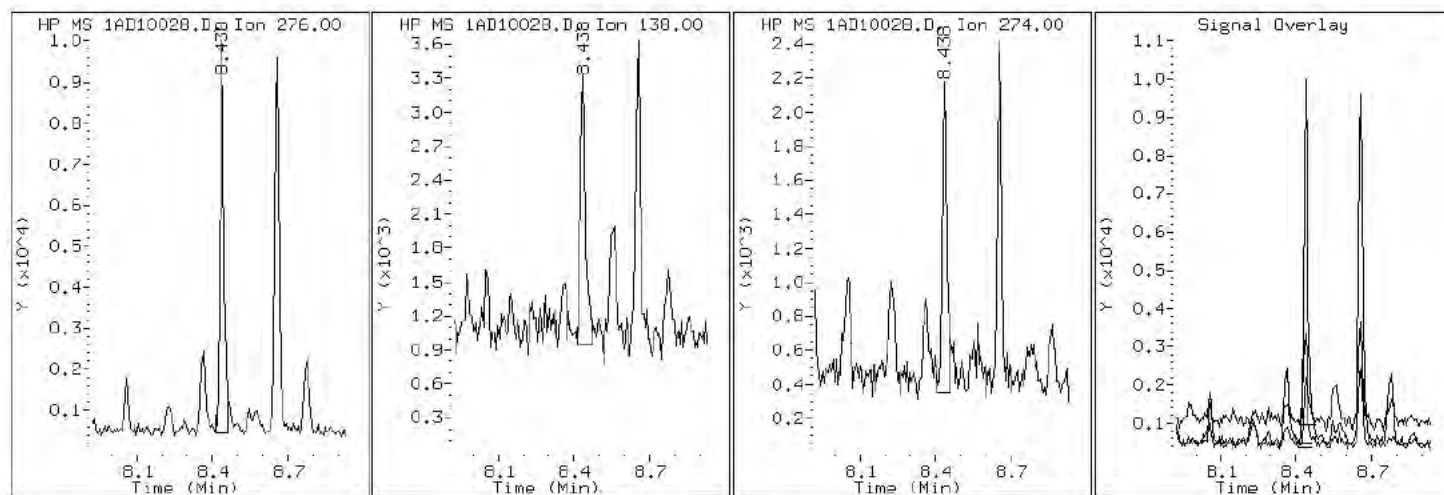
Client ID: FM0326B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-16-a

Operator: SCC

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



Data File: 1AD10028.D

Date: 10-APR-2013 18:57

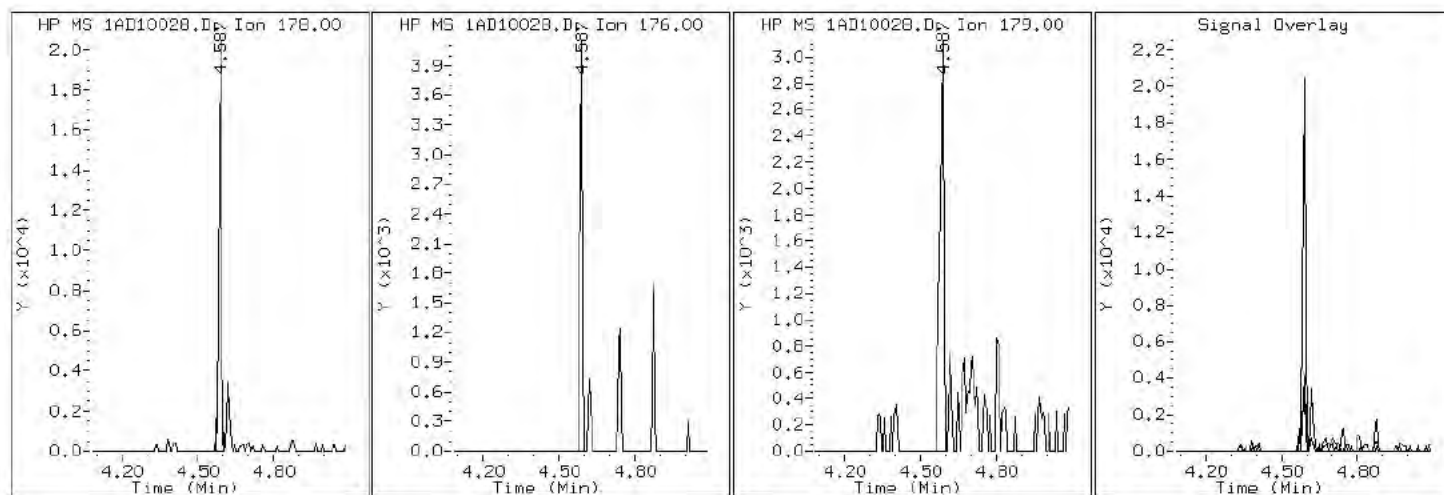
Client ID: FM0326B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-16-a

Operator: SCC

11 Phenanthrene



Data File: 1AD10028.D

Date: 10-APR-2013 18:57

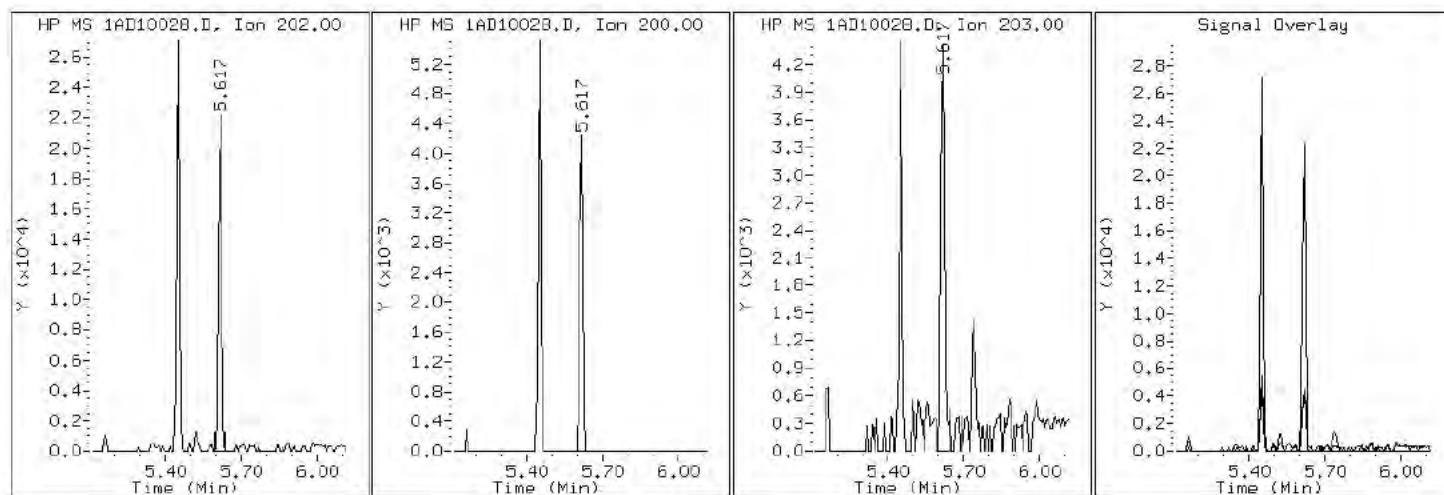
Client ID: FM0326B-CS

Instrument: BSMA5973.i

Sample Info: 680-88913-a-16-a

Operator: SCC

16 Pyrene

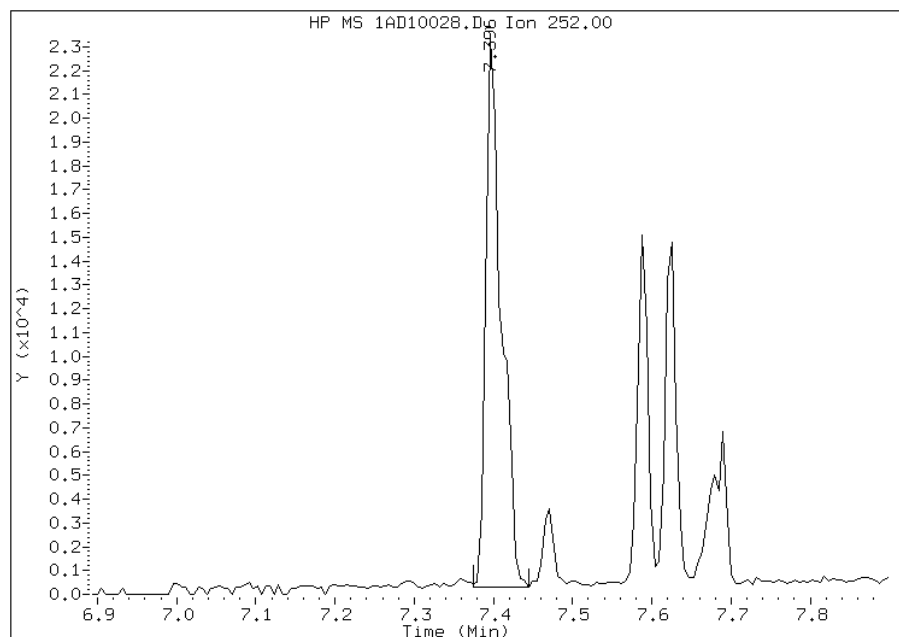


Manual Integration Report

Data File: 1AD10028.D
Inj. Date and Time: 10-APR-2013 18:57
Instrument ID: BSMA5973.i
Client ID: FM0326B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

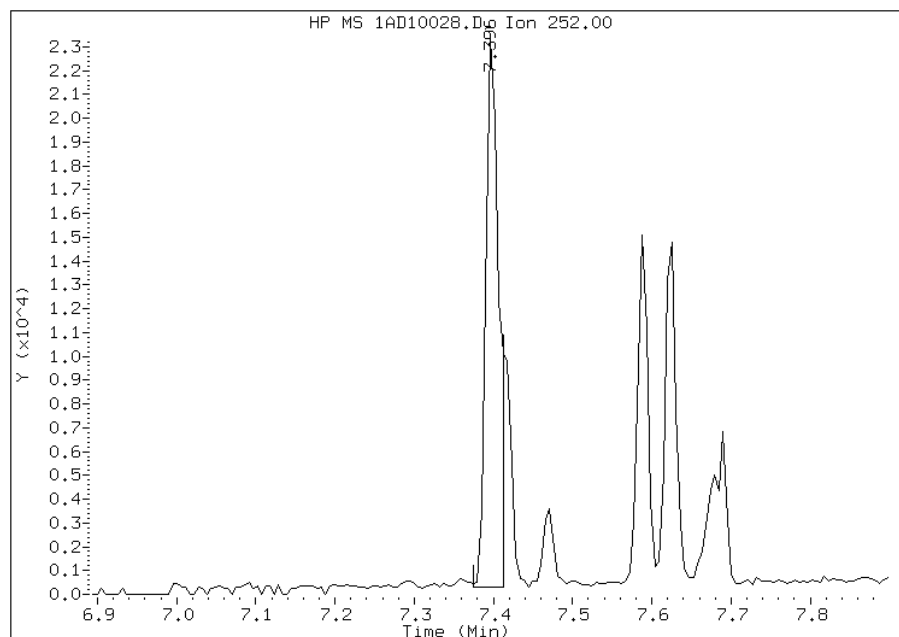
Processing Integration Results

RT: 7.40
Response: 31101
Amount: 1
Conc: 214



Manual Integration Results

RT: 7.40
Response: 25789
Amount: 1
Conc: 177



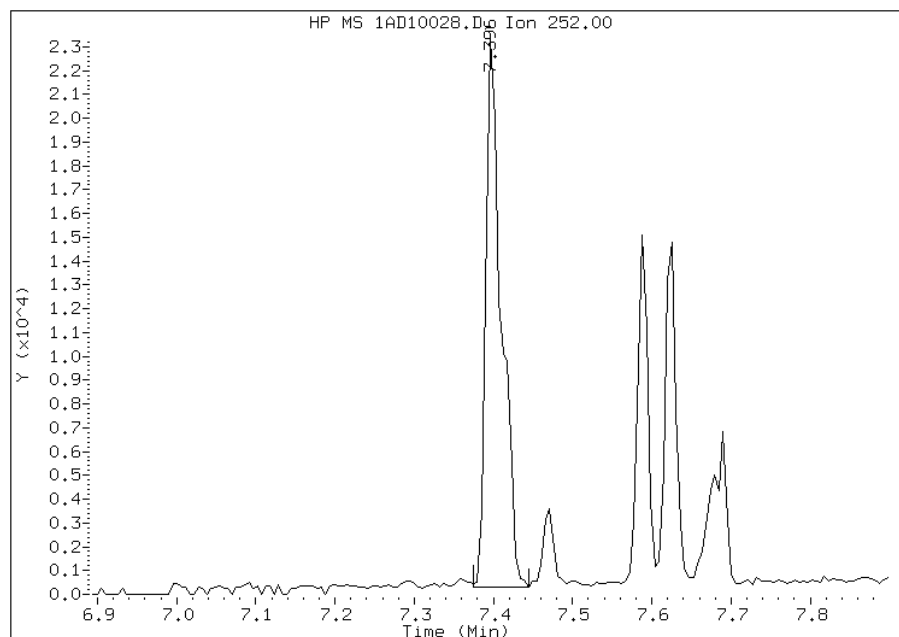
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD10028.D
Inj. Date and Time: 10-APR-2013 18:57
Instrument ID: BSMA5973.i
Client ID: FM0326B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

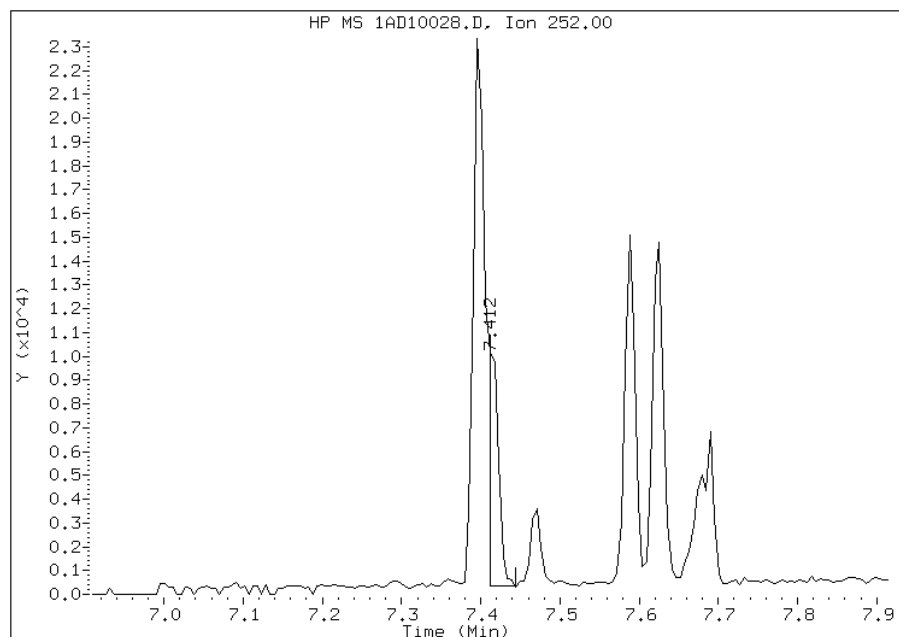
Processing Integration Results

RT: 7.40
Response: 31101
Amount: 1
Conc: 192



Manual Integration Results

RT: 7.41
Response: 8377
Amount: 0
Conc: 52



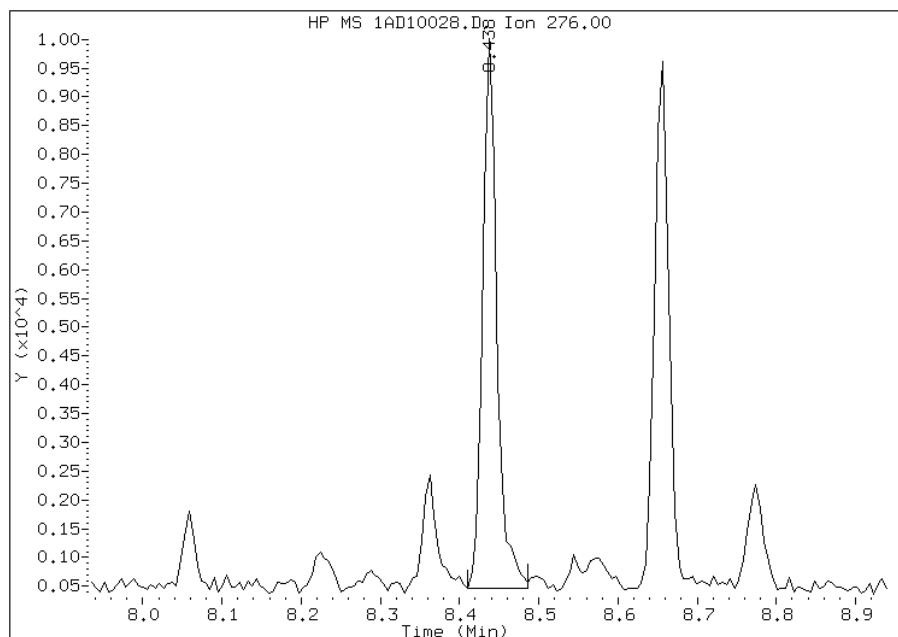
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD10028.D
Inj. Date and Time: 10-APR-2013 18:57
Instrument ID: BSMA5973.i
Client ID: FM0326B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

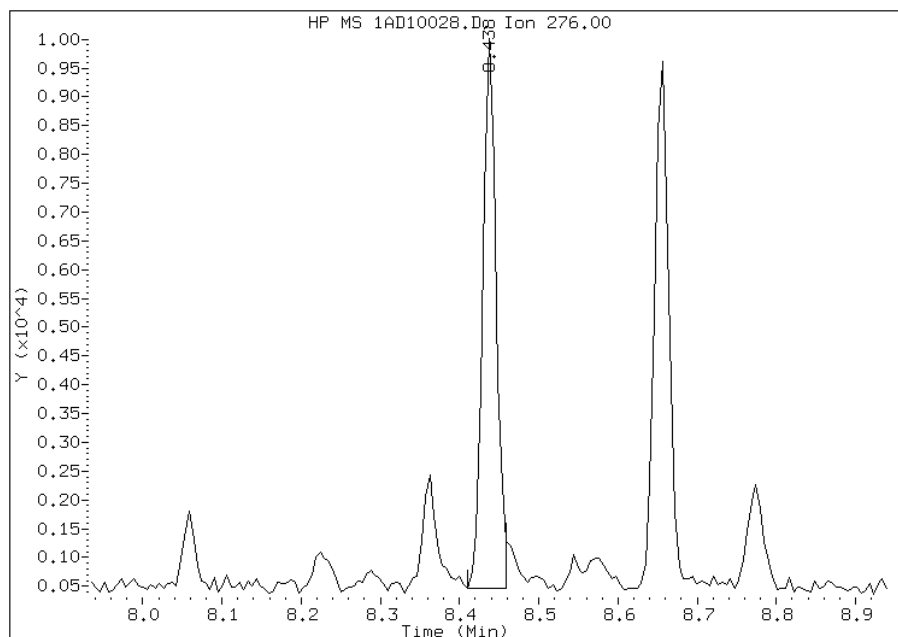
Processing Integration Results

RT: 8.44
Response: 11752
Amount: 1
Conc: 221



Manual Integration Results

RT: 8.44
Response: 11152
Amount: 1
Conc: 217



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>040213-RB-sieve</u>	Lab Sample ID: <u>680-88913-17</u>
Matrix: <u>Water</u>	Lab File ID: <u>1DD11009.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 09:10</u>
Extract. Method: <u>3520C</u>	Date Extracted: <u>04/09/2013 14:11</u>
Sample wt/vol: <u>1030 (mL)</u>	Date Analyzed: <u>04/11/2013 13:14</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u></u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136371</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1.9	U	1.9	0.49
208-96-8	Acenaphthylene	0.97	U	0.97	0.24
120-12-7	Anthracene	0.19	U	0.19	0.074
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.049
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.055
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.049
191-24-2	Benzo[g,h,i]perylene	0.49	U	0.49	0.097
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.055
218-01-9	Chrysene	0.19	U	0.19	0.067
53-70-3	Dibenz(a,h)anthracene	0.19	U	0.19	0.049
206-44-0	Fluoranthene	0.49	U	0.49	0.052
86-73-7	Fluorene	1.9	U	1.9	0.49
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.049
90-12-0	1-Methylnaphthalene	1.9	U	1.9	0.49
91-57-6	2-Methylnaphthalene	1.9	U	1.9	0.49
91-20-3	Naphthalene	1.9	U	1.9	0.24
85-01-8	Phenanthrene	0.49	U	0.49	0.19
129-00-0	Pyrene	0.49	U	0.49	0.086

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11009.D
 Lab Smp Id: 680-88913-B-17-A Client Smp ID: 040213-RB-sieve
 Inj Date : 11-APR-2013 13:14
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-88913-B-17-A
 Misc Info : 680-88913-B-17-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\dfASTPAHi.m
 Meth Date : 11-Apr-2013 11:40 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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	1030.000	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	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ug/l) (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.073	6.078	(1.000)	2541592	40.0000	
* 6 Acenaphthene-d10	164	7.753	7.752	(1.000)	1603320	40.0000	
* 9 Phenanthrene-d10	188	9.010	9.016	(1.000)	2689556	40.0000	
\$ 13 o-Terphenyl	230	9.316	9.327	(1.034)	256590	6.33172	6.1
* 17 Chrysene-d12	240	11.325	11.331	(1.000)	2781230	40.0000	
* 22 Perylene-d12	264	13.147	13.158	(1.000)	2834248	40.0000	

Data File: 1DD11009.D

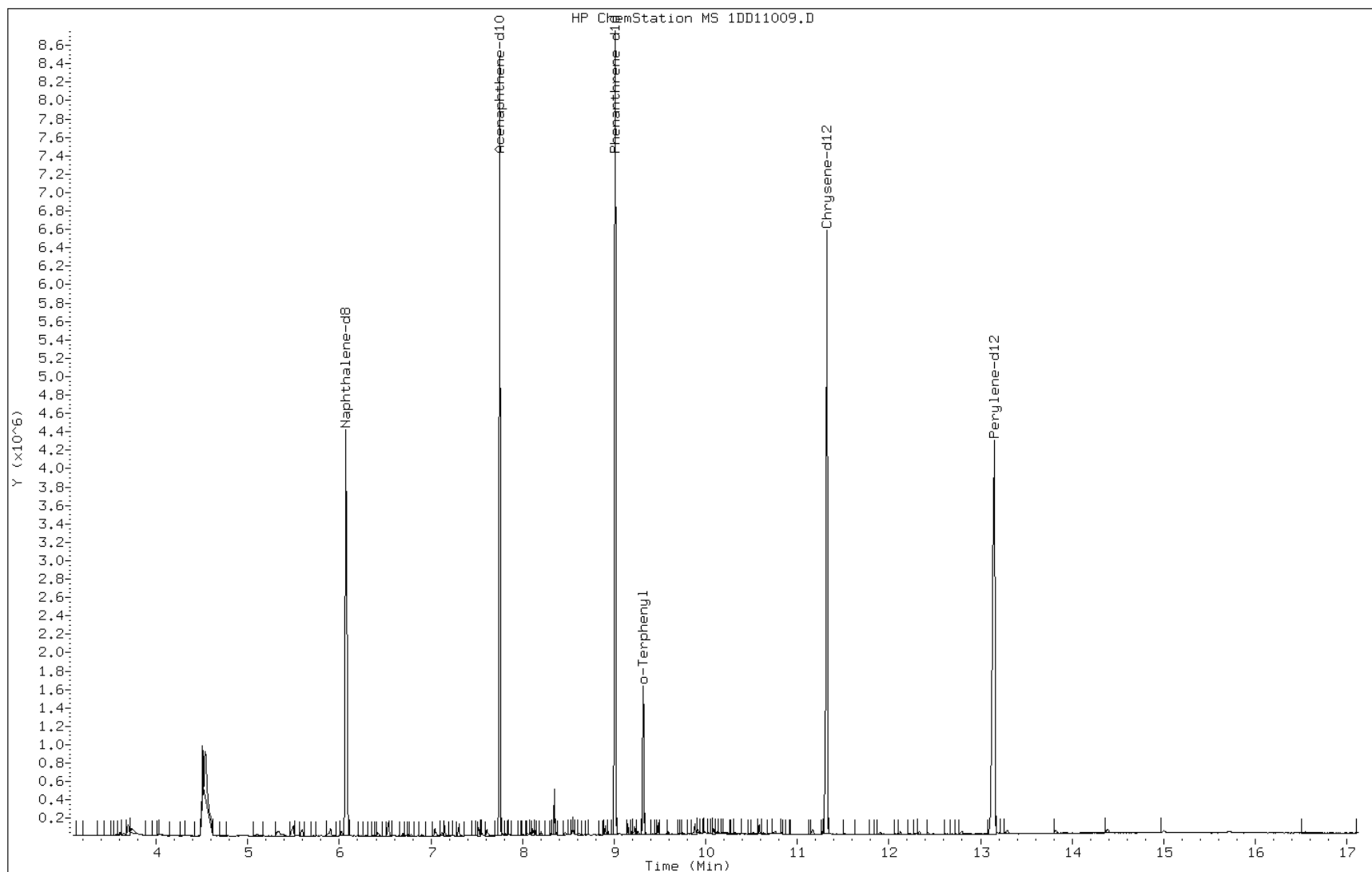
Date: 11-APR-2013 13:14

Client ID: 040213-RB-sieve

Instrument: BSMSD.i

Sample Info: 680-88913-B-17-A

Operator: SCC



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88913-1 Analy Batch No.: 136269

SDG No.: 680088913-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136269/4	1AD09004.D
Level 2	IC 660-136269/5	1AD09005.D
Level 3	IC 660-136269/6	1AD09006.D
Level 4	IC 660-136269/7	1AD09007.D
Level 5	ICIS 660-136269/3	1AD09003.D
Level 6	IC 660-136269/8	1AD09008.D
Level 7	IC 660-136269/9	1AD09009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	1.3224 0.9765	1.4000 0.8017	1.3635	1.2150	1.0716	Qua	0.0080	0.5426	0.6857		0.0000				0.9993		0.9900
2-Methylnaphthalene	0.7329 0.5668	0.8103 0.4772	0.7905	0.7267	0.6335	Qua	0.0053	0.9838	1.8407		0.0000				0.9999		0.9900
1-Methylnaphthalene	0.8386 0.6150	0.9303 0.5096	0.8954	0.8140	0.7011	Qua	0.0073	0.7826	1.8237		0.0000				0.9998		0.9900
Acenaphthylene	2.2852 2.0298	2.6251 1.6808	2.7037	2.5182	2.2909	Qua	0.0115	0.2519	0.1589		0.0000				0.9994		0.9900
Acenaphthene	1.5922 1.0788	1.6354 0.8649	1.5785	1.4057	1.2316	Qua	0.0131	0.3660	0.7088		0.0000				0.9988		0.9900
Fluorene	1.8212 1.3872	1.9992 1.1679	1.9526	1.7894	1.6127	Qua	0.0081	0.3641	0.3322		0.0000				0.9995		0.9900
Phenanthrene	1.5193 1.0595	1.5667 0.8792	1.5313	1.3080	1.1973	Qua	0.0076	0.4914	0.5760		0.0000				0.9994		0.9900
Anthracene	1.3573 1.1067	1.5429 0.9179	1.5952	1.3826	1.2521	Qua	0.0084	0.4622	0.5355		0.0000				0.9995		0.9900
Carbazole	1.2628 1.0315	1.3986 0.9052	1.4241	1.2737	1.1703	Qua	0.0017	0.6266	0.4228		0.0000				0.9997		0.9900
Fluoranthene	1.4701 1.2946	1.6137 1.1364	1.7586	1.5469	1.4284	Qua	0.0017	0.5289	0.2464		0.0000				0.9999		0.9900
Pyrene	1.4282 1.4686	1.6373 1.3402	1.7458	1.6229	1.5466	Ave		1.5414			0.0000	9.0		15.0			
Benzo[a]anthracene	1.6104 1.2697	1.3097 1.2400	1.2955	1.2760	1.3387	Ave		1.3343			0.0000	9.4		15.0			
Chrysene	1.6339 1.2107	1.4418 1.1348	1.5177	1.3469	1.2400	Ave		1.3608			0.0000	13.2		15.0			
Benzo[b]fluoranthene	0.9175 1.1946	1.1320 1.1920	1.3269	1.3588	1.3681	Ave		1.2129			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 CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88913-1 Analy Batch No.: 136269

SDG No.: 680088913-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

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	1.3268 1.2986	1.4932 1.0881	1.5477	1.4089	1.2662	Ave		1.3471			0.0000	11.4		15.0			
Benzo[a]pyrene	0.8134 1.1999	1.0851 1.1027	1.3072	1.3135	1.2775	Lin	-0.023	1.1218			0.0000				0.9948		0.9900
Indeno[1,2,3-cd]pyrene	0.7532 1.0932	0.8646 1.1587	1.0485	1.0912	1.1534	Lin	0.0100	1.1550			0.0000				0.9990		0.9900
Dibenz(a,h)anthracene	0.7178 1.0472	0.9464 1.0187	1.1445	1.1001	1.1041	Ave		1.0113			0.0000	14.3		15.0			
Benzo[g,h,i]perylene	0.8511 1.0948	1.0645 1.0908	1.2109	1.1539	1.1604	Ave		1.0895			0.0000	10.7		15.0			
o-Terphenyl	0.7785 0.6136	0.8535 0.5258	0.8734	0.7621	0.6900	Qua	0.0032	0.9810	1.3913		0.0000				0.9999		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88913-1 Analy Batch No.: 136269

SDG No.: 680088913-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136269/4	1AD09004.D
Level 2	IC 660-136269/5	1AD09005.D
Level 3	IC 660-136269/6	1AD09006.D
Level 4	IC 660-136269/7	1AD09007.D
Level 5	ICIS 660-136269/3	1AD09003.D
Level 6	IC 660-136269/8	1AD09008.D
Level 7	IC 660-136269/9	1AD09009.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	Qua	10553 1127860	55648 1619928	276099	485647	872905	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Qua	5849 654719	32210 964208	160075	290460	516058	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Qua	6692 710356	36981 1029789	181314	325358	571076	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	10106 1267654	56503 1835956	295444	539778	986696	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Qua	7041 673705	35202 944792	172486	301306	530481	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Qua	8054 866311	43032 1275723	213369	383564	694627	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	11894 1181849	59534 1731795	287355	508104	923673	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Qua	10626 1234547	58627 1808013	299351	537109	965900	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Qua	9886 1150659	53147 1782940	267240	494781	902848	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Qua	11509 1444198	61320 2238386	330009	600925	1101924	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12437 1510231	67963 2285792	358125	646018	1181137	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	14023 1305727	54365 2115003	265739	507927	1022353	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	14228 1244973	59848 1935588	311327	536146	946973	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	8447 1370829	49060 2346142	294818	577802	1151054	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	12215 1490192	64713 2141556	343870	599091	1065277	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.: 680-88913-1 Analy Batch No.: 136269

SDG No.: 680088913-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

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	Lin	7488 1376984	47028 2170224	290438	558538	1074806	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin	6934 1254537	37472 2280613	232949	463994	970417	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	6608 1201661	41017 2004976	254287	467797	928898	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	7835 1256283	46132 2146933	269029	490640	976266	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Qua	6095 684444	32431 1035762	163893	296051	532318	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Qua = Quadratic ISTD

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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 09-APR-2013 10:31
Operator : SCC
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1A-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 10:31 Cal File: 1AD09003.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	2.591	2.591	(1.000)	1629167	40.0000	
* 6 Acenaphthene-d10	164	3.622	3.622	(1.000)	861420	40.0000	
* 10 Phenanthrene-d10	188	4.573	4.573	(1.000)	1542880	40.0000	
\$ 14 o-Terphenyl	230	4.877	4.877	(1.067)	532318	20.0000	20.6392
* 18 Chrysene-d12	240	6.597	6.597	(1.000)	1527423	40.0000	
* 23 Perylene-d12	264	7.676	7.676	(1.000)	1682694	40.0000	
2 Naphthalene	128	2.602	2.602	(1.004)	872905	20.0000	19.9575
3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	516058	20.0000	20.4343
4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	571076	20.0000	20.8811
5 Acenaphthylene	152	3.531	3.531	(0.975)	986696	20.0000	20.7921
7 Acenaphthene	154	3.638	3.638	(1.004)	530481	20.0000	20.9287
9 Fluorene	166	3.953	3.953	(1.091)	694627	20.0000	21.2067
11 Phenanthrene	178	4.589	4.589	(1.004)	923673	20.0000	20.2700
12 Anthracene	178	4.626	4.626	(1.012)	965900	20.0000	20.4153
13 Carbazole	167	4.754	4.754	(1.040)	902848	20.0000	20.2782
15 Fluoranthene	202	5.454	5.454	(1.193)	1101924	20.0000	20.9677
16 Pyrene	202	5.619	5.619	(0.852)	1181137	20.0000	20.6200
17 Benzo(a)anthracene	228	6.581	6.581	(0.998)	1022353	20.0000	20.2292
19 Chrysene	228	6.613	6.613	(1.002)	946973	20.0000	19.8173
20 Benzo(b)fluoranthene	252	7.403	7.403	(0.965)	1151054	20.0000	23.6577
21 Benzo(k)fluoranthene	252	7.425	7.425	(0.967)	1065277	20.0000	20.0712
22 Benzo(a)pyrene	252	7.628	7.628	(0.994)	1074806	20.0000	22.9367
24 Indeno(1,2,3-cd)pyrene	276	8.450	8.450	(1.101)	970417	20.0000	22.2782
25 Dibenzo(a,h)anthracene	278	8.477	8.477	(1.104)	928898	20.0000	23.9724
26 Benzo(g,h,i)perylene	276	8.669	8.669	(1.129)	976266	20.0000	23.2995

Data File: 1AD09003.D

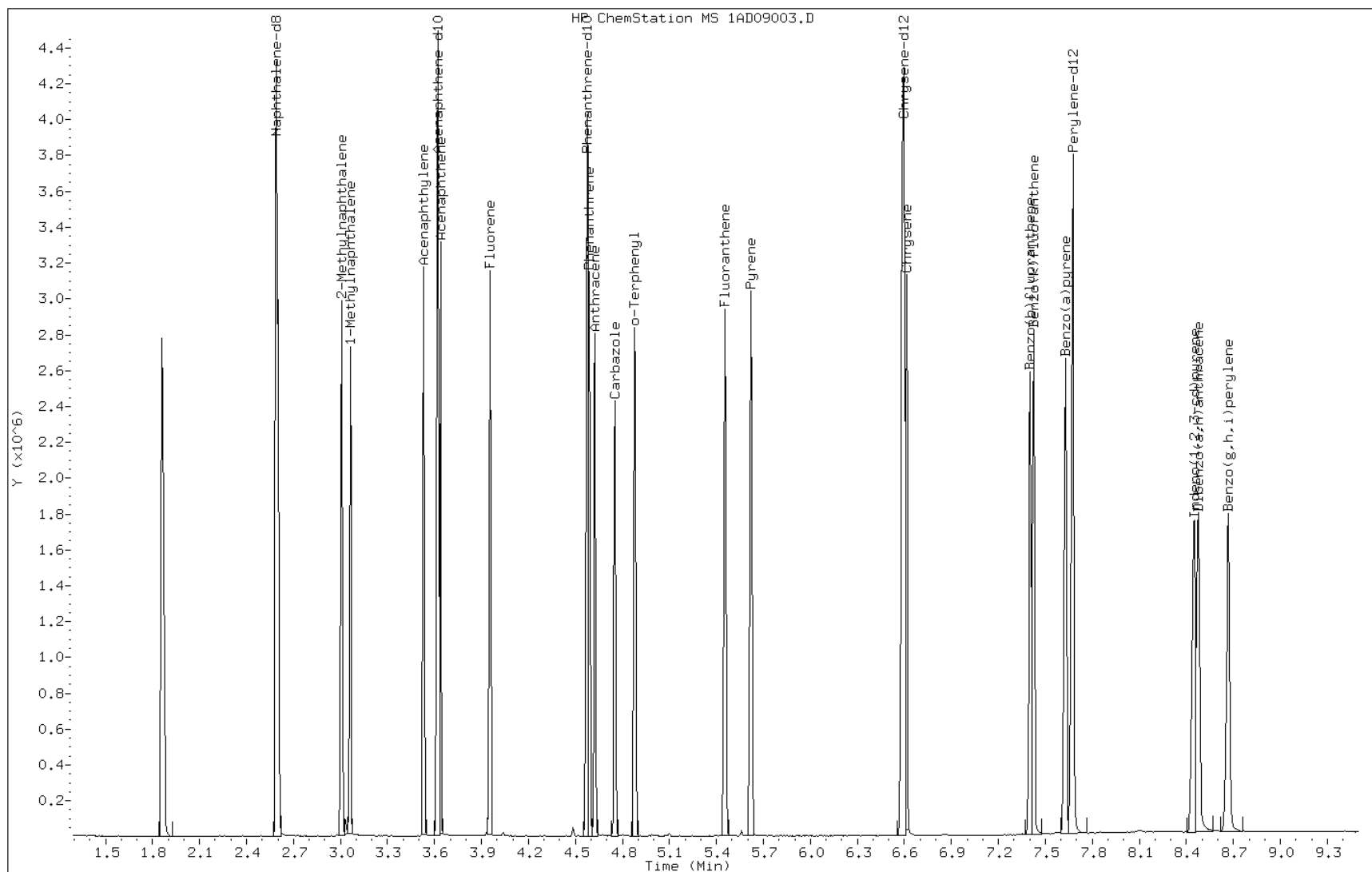
Date: 09-APR-2013 10:31

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1531401

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09004.D
Lab Smp Id: IC-1531396
Inj Date : 09-APR-2013 10:48
Operator : SCC
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1A-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 10:31 Cal File: 1AD09003.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	2.591	2.591	(1.000)	1596037	40.0000	
* 6 Acenaphthene-d10	164	3.621	3.622	(1.000)	884461	40.0000	
* 10 Phenanthrene-d10	188	4.572	4.573	(1.000)	1565756	40.0000	
\$ 14 o-Terphenyl	230	4.877	4.877	(1.067)	6095	0.20000	0.2328
* 18 Chrysene-d12	240	6.591	6.597	(1.000)	1741599	40.0000	
* 23 Perylene-d12	264	7.675	7.676	(1.000)	1841229	40.0000	
2 Naphthalene	128	2.601	2.602	(1.004)	10553	0.20000	0.3869
3 2-Methylnaphthalene	141	3.007	3.008	(1.161)	5849	0.20000	0.4505
4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	6692	0.20000	0.3937
5 Acenaphthylene	152	3.531	3.531	(0.975)	10106	0.20000	0.6062
7 Acenaphthene	154	3.638	3.638	(1.004)	7041	0.20000	0.4297
9 Fluorene	166	3.953	3.953	(1.091)	8054	0.20000	0.5455
11 Phenanthrene	178	4.588	4.589	(1.004)	11894	0.20000	0.4266
12 Anthracene	178	4.620	4.626	(1.011)	10626	0.20000	0.3310
13 Carbazole	167	4.748	4.754	(1.039)	9886	0.20000	0.2187
15 Fluoranthene	202	5.448	5.454	(1.192)	11509	0.20000	0.2157
16 Pyrene	202	5.619	5.619	(0.853)	12437	0.20000	0.1904
17 Benzo(a)anthracene	228	6.586	6.581	(0.999)	14023	0.20000	0.2433
19 Chrysene	228	6.607	6.613	(1.002)	14228	0.20000	0.2611
20 Benzo(b)fluoranthene	252	7.398	7.403	(0.964)	8447	0.20000	0.1586
21 Benzo(k)fluoranthene	252	7.414	7.425	(0.966)	12215	0.20000	0.2103
22 Benzo(a)pyrene	252	7.622	7.628	(0.993)	7488	0.20000	0.1460
24 Indeno(1,2,3-cd)pyrene	276	8.434	8.450	(1.099)	6934	0.20000	0.2440
25 Dibenzo(a,h)anthracene	278	8.466	8.477	(1.103)	6608	0.20000	0.1558
26 Benzo(g,h,i)perylene	276	8.653	8.669	(1.127)	7835	0.20000	0.1708

Data File: 1AD09004.D

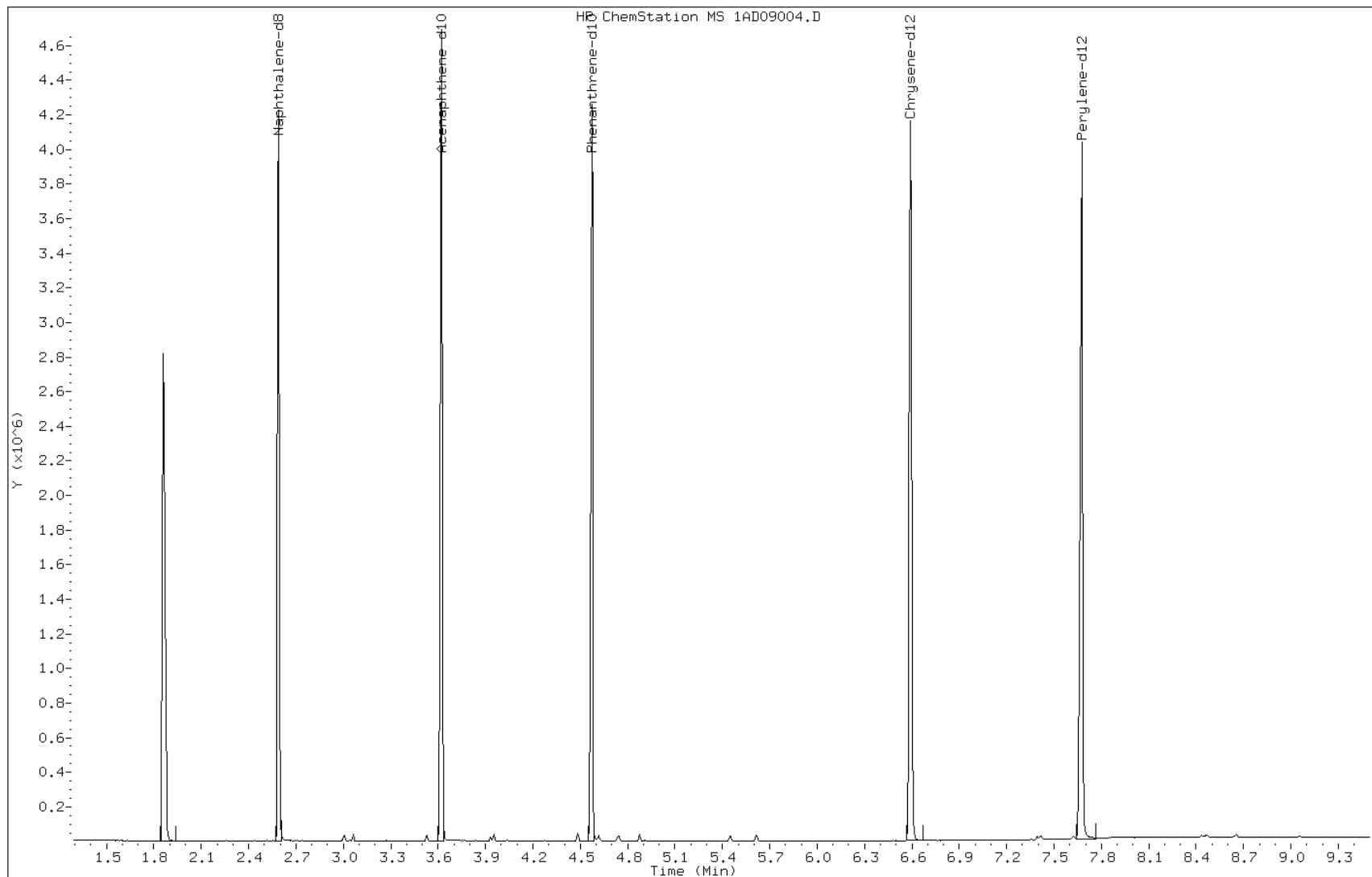
Date: 09-APR-2013 10:48

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531396

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09005.D
Lab Smp Id: IC-1531398
Inj Date : 09-APR-2013 11:04
Operator : SCC
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1A-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 10:48 Cal File: 1AD09004.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
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	2.591	2.591	(1.000)	1589999	40.0000	
*	6 Acenaphthene-d10	164	3.622	3.622	(1.000)	860976	40.0000	
*	10 Phenanthrene-d10	188	4.573	4.573	(1.000)	1519965	40.0000	
\$	14 o-Terphenyl	230	4.877	4.877	(1.067)	32431	1.00000	1.2362
*	18 Chrysene-d12	240	6.592	6.597	(1.000)	1660335	40.0000	
*	23 Perylene-d12	264	7.676	7.676	(1.000)	1733524	40.0000	
	2 Naphthalene	128	2.602	2.602	(1.004)	55648	1.00000	1.1485
	3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	32210	1.00000	1.1998
	4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	36981	1.00000	1.1515
	5 Acenaphthylene	152	3.531	3.531	(0.975)	56503	1.00000	1.2231
	7 Acenaphthene	154	3.638	3.638	(1.004)	35202	1.00000	1.1716
	9 Fluorene	166	3.953	3.953	(1.091)	43032	1.00000	1.2494
	11 Phenanthrene	178	4.589	4.589	(1.004)	59534	1.00000	1.1943
	12 Anthracene	178	4.621	4.626	(1.011)	58627	1.00000	1.0870
	13 Carbazole	167	4.749	4.754	(1.039)	53147	1.00000	1.1966
	15 Fluoranthene	202	5.449	5.454	(1.192)	61320	1.00000	1.1576
	16 Pyrene	202	5.614	5.619	(0.852)	67963	1.00000	1.0866
	17 Benzo(a)anthracene	228	6.581	6.581	(0.998)	54365	1.00000	0.9937
	19 Chrysene	228	6.608	6.613	(1.002)	59848	1.00000	1.1159
	20 Benzo(b)fluoranthene	252	7.393	7.403	(0.963)	49060	1.00000	0.9825
	21 Benzo(k)fluoranthene	252	7.414	7.425	(0.966)	64713	1.00000	1.1596
	22 Benzo(a)pyrene	252	7.622	7.628	(0.993)	47028	1.00000	0.9844
	24 Indeno(1,2,3-cd)pyrene	276	8.434	8.450	(1.099)	37472	1.00000	0.9251(H)
	25 Dibenzo(a,h)anthracene	278	8.466	8.477	(1.103)	41017	1.00000	1.0153(M)
	26 Benzo(g,h,i)perylene	276	8.653	8.669	(1.127)	46132	1.00000	1.0614(M)

QC Flag Legend

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

Data File: 1AD09005.D

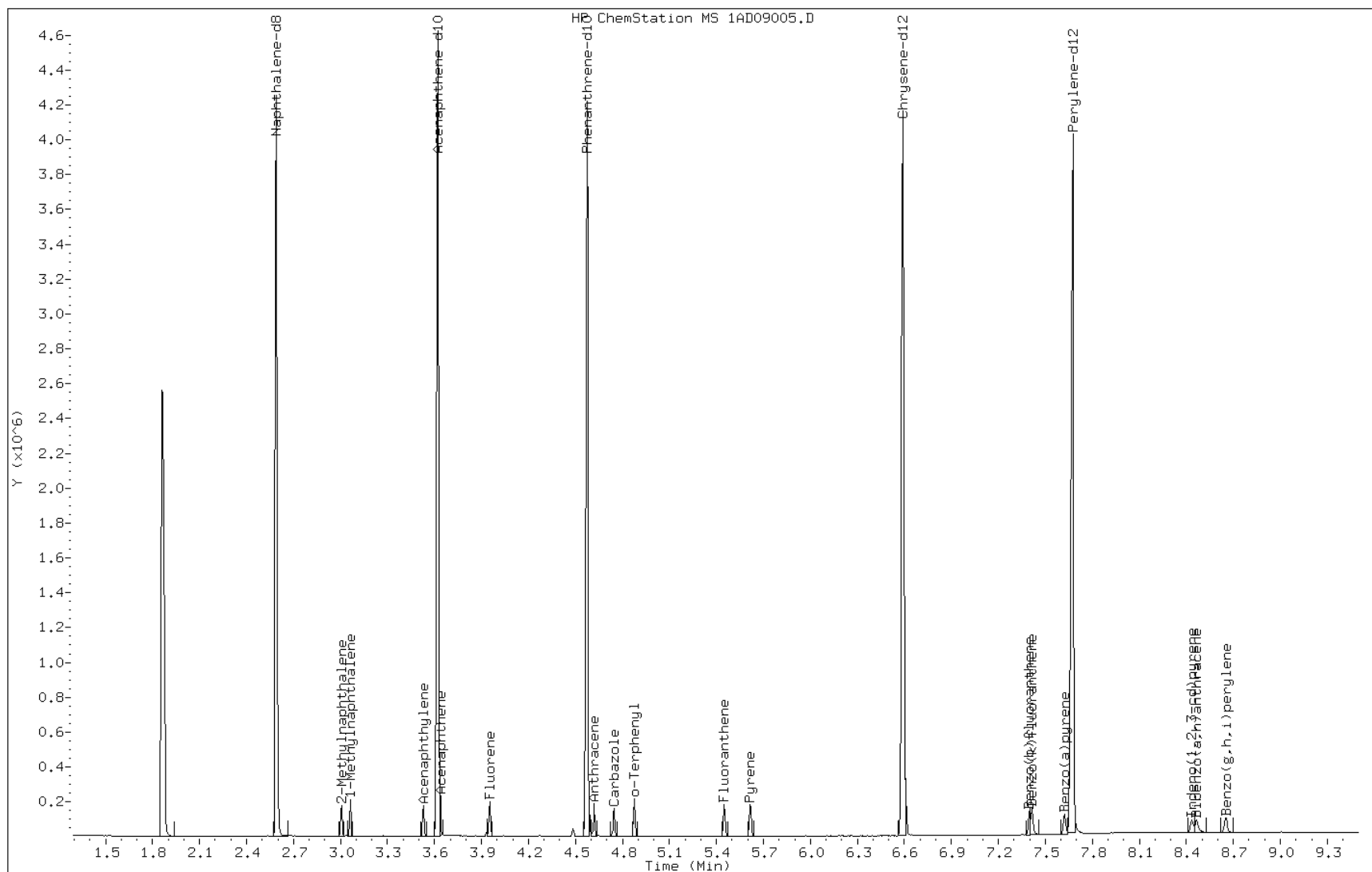
Date: 09-APR-2013 11:04

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531398

Operator: SCC

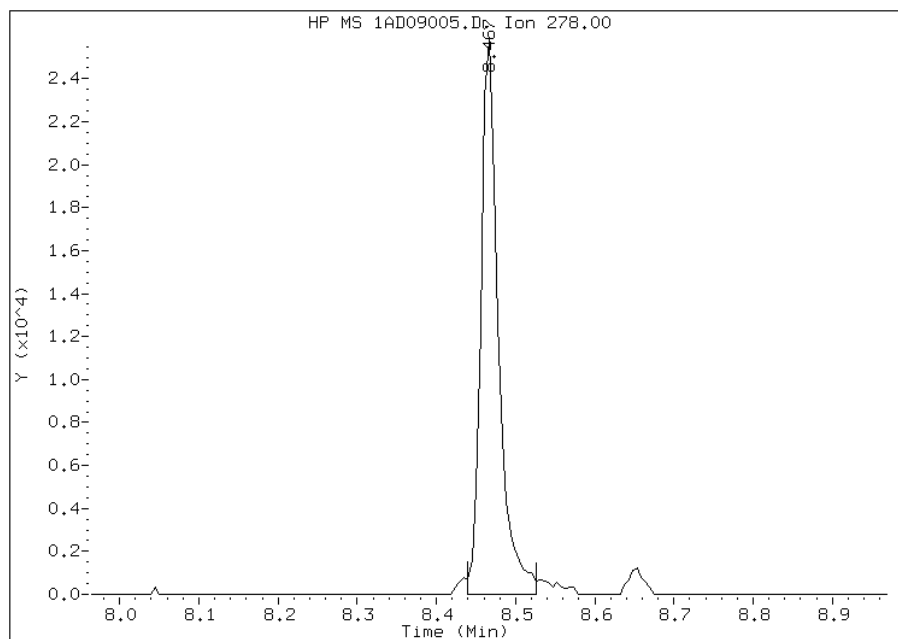


Manual Integration Report

Data File: 1AD09005.D
Inj. Date and Time: 09-APR-2013 11:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/09/2013

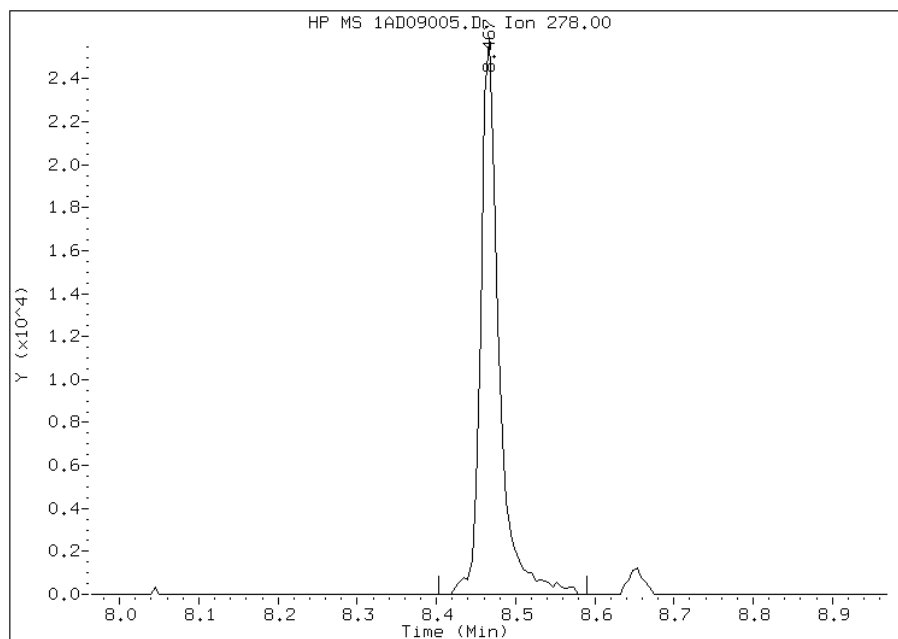
Processing Integration Results

RT: 8.47
Response: 39194
Amount: 1
Conc: 1



Manual Integration Results

RT: 8.47
Response: 41017
Amount: 1
Conc: 1



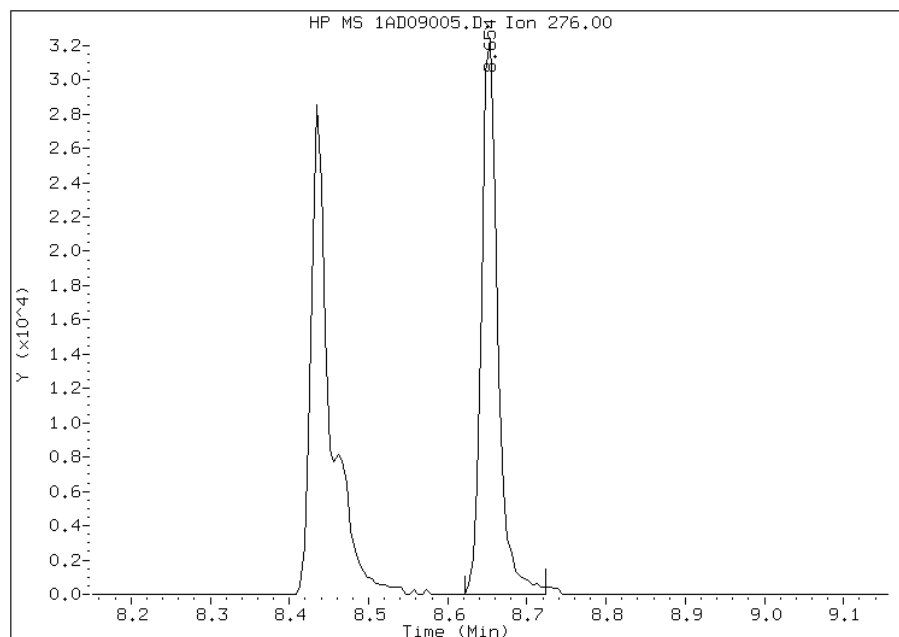
Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD09005.D
Inj. Date and Time: 09-APR-2013 11:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/09/2013

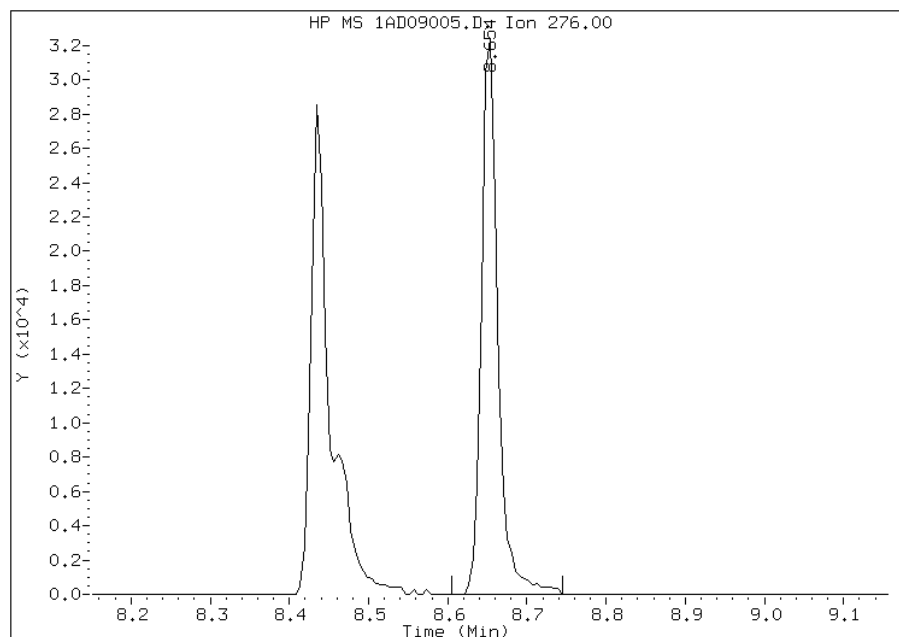
Processing Integration Results

RT: 8.65
Response: 45759
Amount: 1
Conc: 1



Manual Integration Results

RT: 8.65
Response: 46132
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:31
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09006.D
Lab Smp Id: IC-1531399
Inj Date : 09-APR-2013 11:19
Operator : SCC
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1A-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 11:04 Cal File: 1AD09005.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	2.587	2.591 (1.000)		1619963	40.0000	
* 6 Acenaphthene-d10	164	3.618	3.622 (1.000)		874198	40.0000	
* 10 Phenanthrene-d10	188	4.574	4.573 (1.000)		1501226	40.0000	
\$ 14 o-Terphenyl	230	4.879	4.877 (1.067)		163893	5.00000	6.1874
* 18 Chrysene-d12	240	6.593	6.597 (1.000)		1641042	40.0000	
* 23 Perylene-d12	264	7.672	7.676 (1.000)		1777421	40.0000	
2 Naphthalene	128	2.598	2.602 (1.004)		276099	5.00000	5.2441
3 2-Methylnaphthalene	141	3.004	3.008 (1.161)		160075	5.00000	5.2349
4 1-Methylnaphthalene	142	3.063	3.061 (1.184)		181314	5.00000	5.2534
5 Acenaphthylene	152	3.527	3.531 (0.975)		295444	5.00000	4.8504
7 Acenaphthene	154	3.634	3.638 (1.004)		172486	5.00000	5.2897
9 Fluorene	166	3.949	3.953 (1.092)		213369	5.00000	5.1212
11 Phenanthrene	178	4.585	4.589 (1.002)		287355	5.00000	5.3602
12 Anthracene	178	4.622	4.626 (1.011)		299351	5.00000	5.3674
13 Carbazole	167	4.750	4.754 (1.039)		267240	5.00000	6.0094
15 Fluoranthene	202	5.450	5.454 (1.191)		330009	5.00000	6.2143
16 Pyrene	202	5.616	5.619 (0.852)		358125	5.00000	5.7292
17 Benzo(a)anthracene	228	6.582	6.581 (0.998)		265739	5.00000	4.9027
19 Chrysene	228	6.609	6.613 (1.002)		311327	5.00000	5.7795
20 Benzo(b)fluoranthene	252	7.394	7.403 (0.964)		294818	5.00000	5.6461
21 Benzo(k)fluoranthene	252	7.416	7.425 (0.967)		343870	5.00000	5.8943
22 Benzo(a)pyrene	252	7.619	7.628 (0.993)		290438	5.00000	5.8709
24 Indeno(1,2,3-cd)pyrene	276	8.436	8.450 (1.100)		232949	5.00000	5.1117
25 Dibenzo(a,h)anthracene	278	8.462	8.477 (1.103)		254287	5.00000	6.0020(M)
26 Benzo(g,h,i)perylene	276	8.649	8.669 (1.127)		269029	5.00000	5.9013

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD09006.D

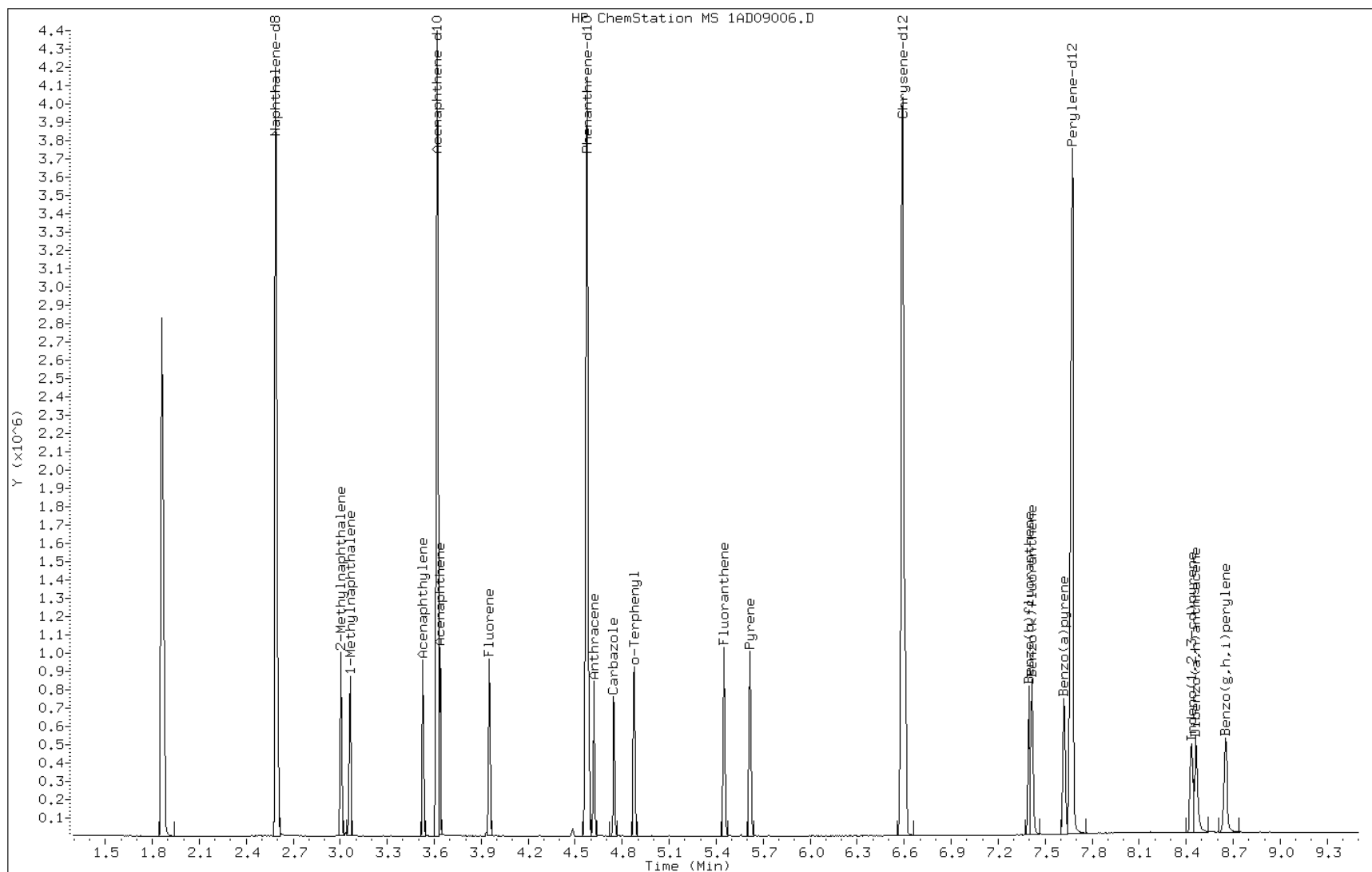
Date: 09-APR-2013 11:19

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531399

Operator: SCC

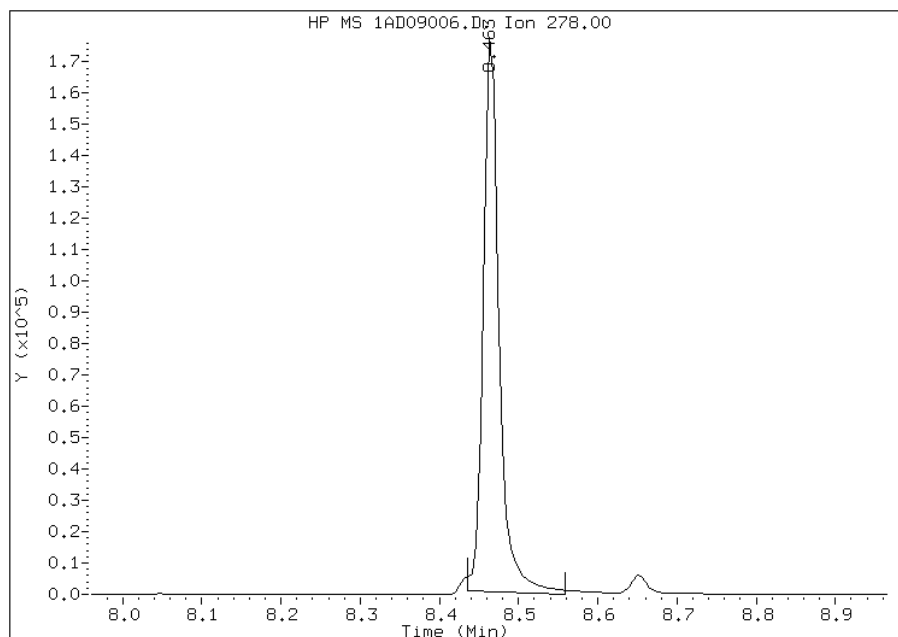


Manual Integration Report

Data File: 1AD09006.D
Inj. Date and Time: 09-APR-2013 11:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/09/2013

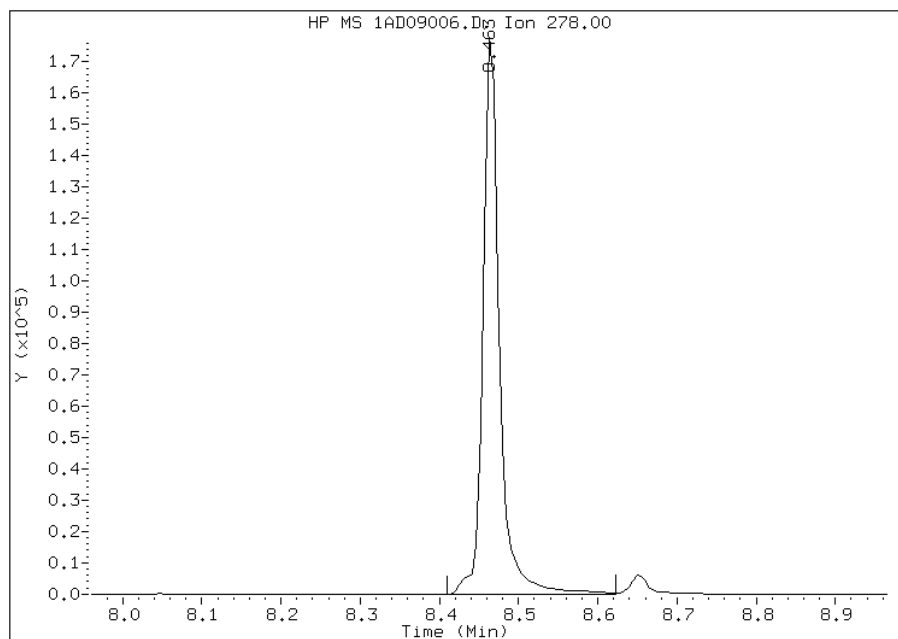
Processing Integration Results

RT: 8.46
Response: 243239
Amount: 6
Conc: 6



Manual Integration Results

RT: 8.46
Response: 254287
Amount: 6
Conc: 6



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:31
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09007.D
Lab Smp Id: IC-1531400
Inj Date : 09-APR-2013 11:33
Operator : SCC
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1A-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 11:19 Cal File: 1AD09006.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
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	2.591	2.591	(1.000)	1598776	40.0000	
* 6 Acenaphthene-d10	164	3.622	3.622	(1.000)	857411	40.0000	
* 10 Phenanthrene-d10	188	4.573	4.573	(1.000)	1553879	40.0000	
\$ 14 o-Terphenyl	230	4.877	4.877	(1.067)	296051	10.0000	10.6256
* 18 Chrysene-d12	240	6.591	6.597	(1.000)	1592296	40.0000	
* 23 Perylene-d12	264	7.670	7.676	(1.000)	1700858	40.0000	
2 Naphthalene	128	2.602	2.602	(1.004)	485647	10.0000	9.9295
3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	290460	10.0000	10.2364
4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	325358	10.0000	10.3683
5 Acenaphthylene	152	3.531	3.531	(0.975)	539778	10.0000	9.6764
7 Acenaphthene	154	3.638	3.638	(1.004)	301306	10.0000	10.2149
9 Fluorene	166	3.953	3.953	(1.091)	383564	10.0000	10.0269
11 Phenanthrene	178	4.589	4.589	(1.004)	508104	10.0000	9.6197
12 Anthracene	178	4.621	4.626	(1.011)	537109	10.0000	9.8618
13 Carbazole	167	4.749	4.754	(1.039)	494781	10.0000	10.6152
15 Fluoranthene	202	5.454	5.454	(1.193)	600925	10.0000	10.7198
16 Pyrene	202	5.619	5.619	(0.853)	646018	10.0000	10.5680
17 Benzo(a)anthracene	228	6.581	6.581	(0.998)	507927	10.0000	9.6156
19 Chrysene	228	6.607	6.613	(1.002)	536146	10.0000	10.0748
20 Benzo(b)fluoranthene	252	7.398	7.403	(0.964)	577802	10.0000	11.5370
21 Benzo(k)fluoranthene	252	7.419	7.425	(0.967)	599091	10.0000	10.5145
22 Benzo(a)pyrene	252	7.622	7.628	(0.994)	558538	10.0000	11.5949
24 Indeno(1,2,3-cd)pyrene	276	8.434	8.450	(1.100)	463994	10.0000	10.4559
25 Dibenzo(a,h)anthracene	278	8.466	8.477	(1.104)	467797	10.0000	11.2448
26 Benzo(g,h,i)perylene	276	8.653	8.669	(1.128)	490640	10.0000	10.9587

Data File: 1AD09007.D

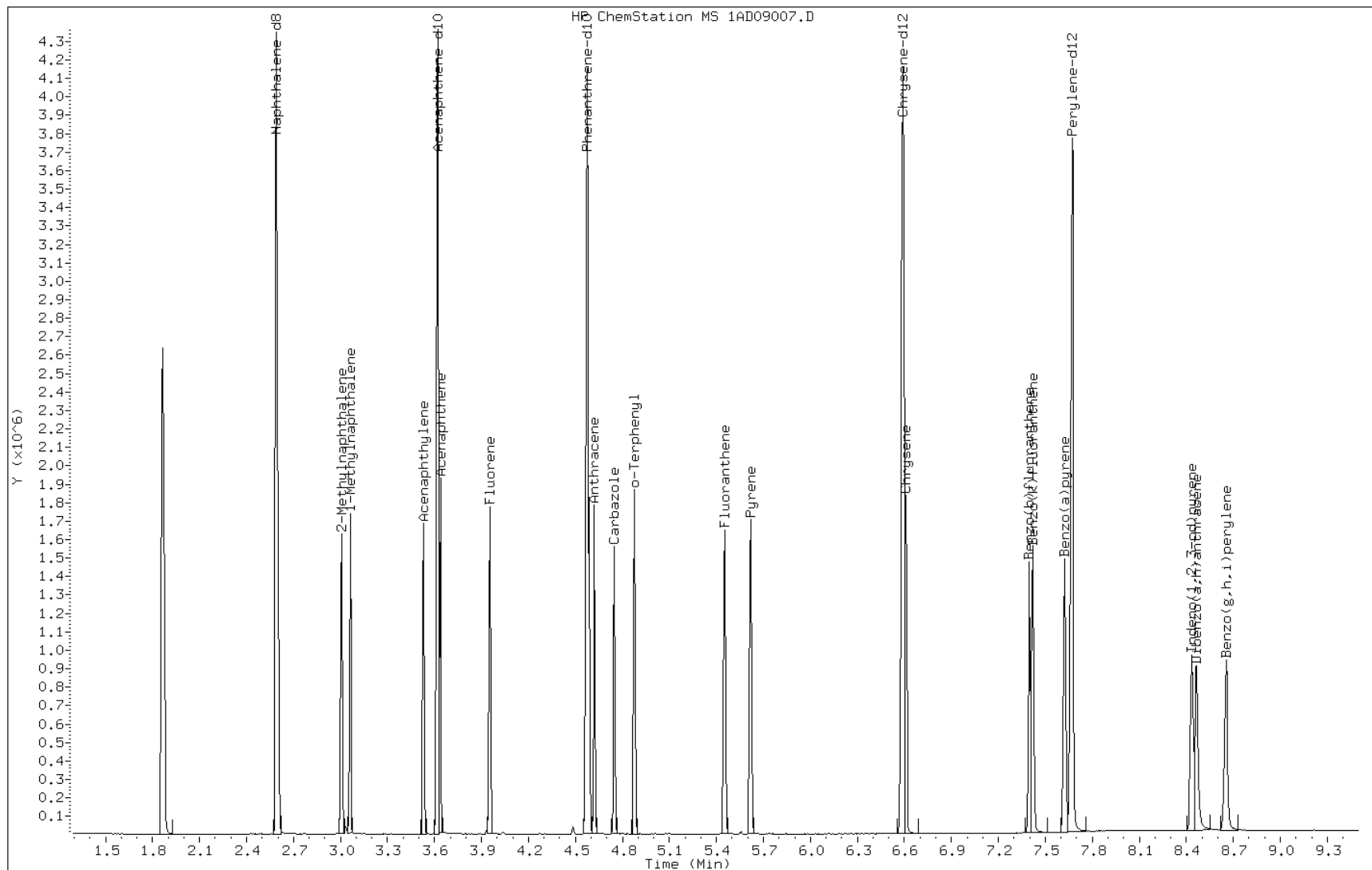
Date: 09-APR-2013 11:33

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531400

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09008.D
Lab Smp Id: IC-1531402
Inj Date : 09-APR-2013 11:49
Operator : SCC
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1A-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 11:33 Cal File: 1AD09007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ug/ml)	(ug/ml)
=====	=====	=====	=====	=====	=====		=====	=====
* 1 Naphthalene-d8	136	2.589	2.591 (1.000)		1540056		40.0000	
* 6 Acenaphthene-d10	164	3.620	3.622 (1.000)		832688		40.0000	
* 10 Phenanthrene-d10	188	4.576	4.573 (1.000)		1487352		40.0000	
\$ 14 o-Terphenyl	230	4.880	4.877 (1.067)		684444		30.0000	25.3467
* 18 Chrysene-d12	240	6.595	6.597 (1.000)		1371124		40.0000	
* 23 Perylene-d12	264	7.674	7.676 (1.000)		1530063		40.0000	
2 Naphthalene	128	2.600	2.602 (1.004)		1127860		30.0000	29.9432
3 2-Methylnaphthalene	141	3.006	3.008 (1.161)		654719		30.0000	29.9345
4 1-Methylnaphthalene	142	3.064	3.061 (1.184)		710356		30.0000	30.1606
5 Acenaphthylene	152	3.529	3.531 (0.975)		1267654		30.0000	30.7339
7 Acenaphthene	154	3.641	3.638 (1.006)		673705		30.0000	30.1389
9 Fluorene	166	3.956	3.953 (1.093)		866311		30.0000	29.7705
11 Phenanthrene	178	4.592	4.589 (1.003)		1181849		30.0000	29.2539
12 Anthracene	178	4.624	4.626 (1.011)		1234547		30.0000	29.3561
13 Carbazole	167	4.752	4.754 (1.039)		1150659		30.0000	25.5465
15 Fluoranthene	202	5.457	5.454 (1.193)		1444198		30.0000	26.6621
16 Pyrene	202	5.623	5.619 (0.853)		1510231		30.0000	28.5401
17 Benzo(a)anthracene	228	6.584	6.581 (0.998)		1305727		30.0000	28.4543
19 Chrysene	228	6.616	6.613 (1.003)		1244973		30.0000	26.9339
20 Benzo(b)fluoranthene	252	7.401	7.403 (0.965)		1370829		30.0000	29.7706
21 Benzo(k)fluoranthene	252	7.428	7.425 (0.968)		1490192		30.0000	28.9795
22 Benzo(a)pyrene	252	7.631	7.628 (0.994)		1376984		30.0000	31.2508
24 Indeno(1,2,3-cd)pyrene	276	8.448	8.450 (1.101)		1254537		30.0000	31.4946
25 Dibenzo(a,h)anthracene	278	8.475	8.477 (1.104)		1201661		30.0000	31.5452
26 Benzo(g,h,i)perylene	276	8.667	8.669 (1.129)		1256283		30.0000	30.6309

Data File: 1AD09008.D

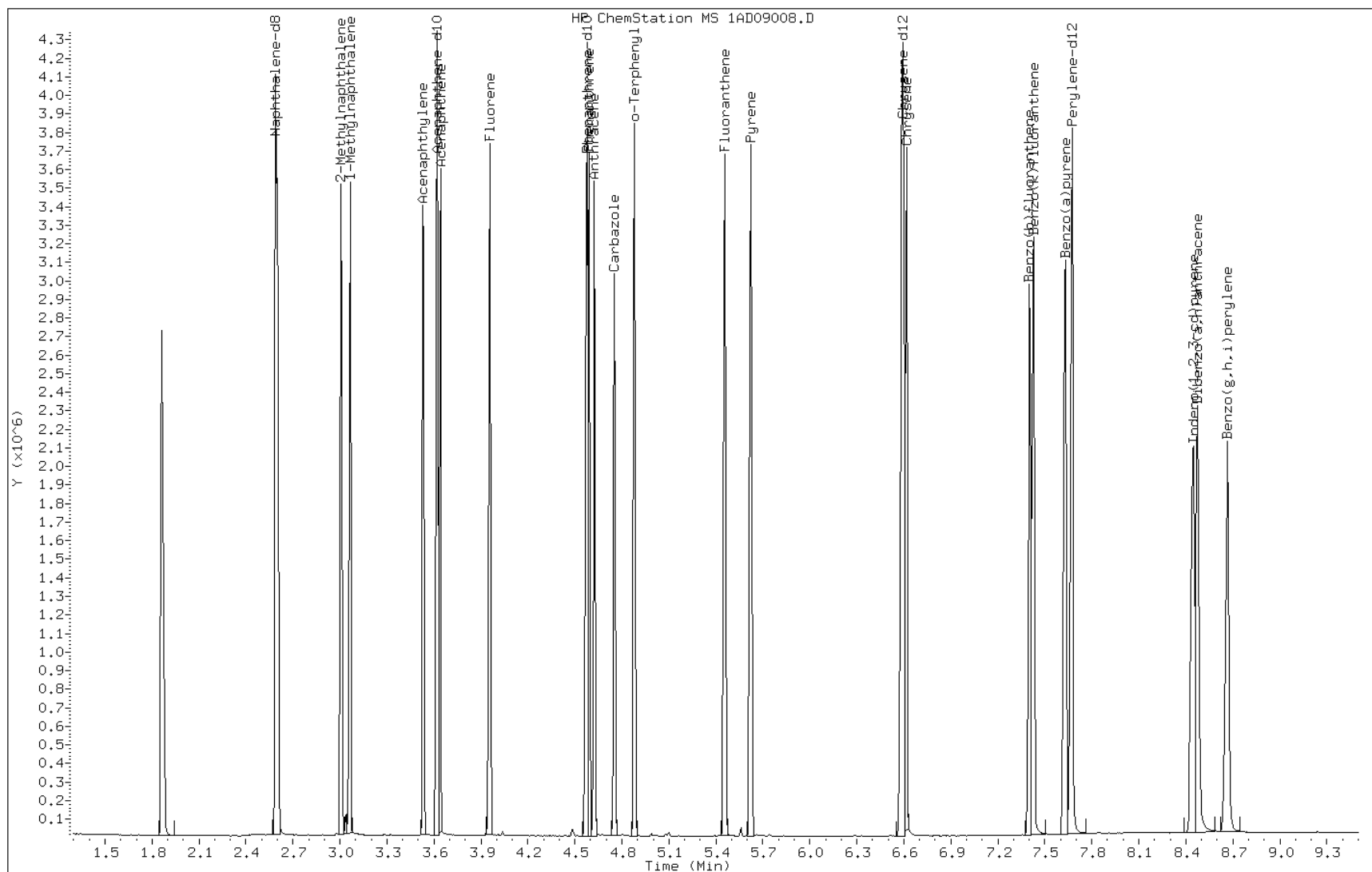
Date: 09-APR-2013 11:49

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\1A040913_IC.b\1AD09009.D
Lab Smp Id: IC-1531403
Inj Date : 09-APR-2013 12:03
Operator : SCC
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1A-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD
Cal Date : 09-APR-2013 11:49 Cal File: 1AD09008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/ml)	(ug/ml)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Naphthalene-d8	136		2.591	2.591	(1.000)	1616496	40.0000		
* 6 Acenaphthene-d10	164		3.622	3.622	(1.000)	873865	40.0000		
* 10 Phenanthrene-d10	188		4.572	4.573	(1.000)	1575809	40.0000		
\$ 14 o-Terphenyl	230		4.882	4.877	(1.068)	1035762	50.0000	36.1399	
* 18 Chrysene-d12	240		6.602	6.597	(1.000)	1364496	40.0000		
* 23 Perylene-d12	264		7.676	7.676	(1.000)	1574534	40.0000		
2 Naphthalene	128		2.602	2.602	(1.004)	1619928	50.0000	46.4915	
3 2-Methylnaphthalene	141		3.007	3.008	(1.161)	964208	50.0000	48.4523	
4 1-Methylnaphthalene	142		3.066	3.061	(1.183)	1029789	50.0000	48.2198	
5 Acenaphthylene	152		3.531	3.531	(0.975)	1835956	50.0000	49.5157	
7 Acenaphthene	154		3.643	3.638	(1.006)	944792	50.0000	45.9717	
9 Fluorene	166		3.958	3.953	(1.093)	1275723	50.0000	48.8799	
11 Phenanthrene	178		4.594	4.589	(1.005)	1731795	50.0000	46.2239	
12 Anthracene	178		4.631	4.626	(1.013)	1808013	50.0000	46.1457	
13 Carbazole	167		4.759	4.754	(1.041)	1782940	50.0000	37.4205	
15 Fluoranthene	202		5.459	5.454	(1.194)	2238386	50.0000	38.9757	
16 Pyrene	202		5.630	5.619	(0.853)	2285792	50.0000	43.4140	
17 Benzo(a)anthracene	228		6.586	6.581	(0.998)	2115003	50.0000	46.3618	
19 Chrysene	228		6.623	6.613	(1.003)	1935588	50.0000	41.8553	
20 Benzo(b)fluoranthene	252		7.409	7.403	(0.965)	2346142	50.0000	49.7155	
21 Benzo(k)fluoranthene	252		7.435	7.425	(0.969)	2141556	50.0000	40.0784(M)	
22 Benzo(a)pyrene	252		7.638	7.628	(0.995)	2170224	50.0000	47.6951	
24 Indeno(1,2,3-cd)pyrene	276		8.461	8.450	(1.102)	2280613	50.0000	54.9725(A)	
25 Dibenzo(a,h)anthracene	278		8.487	8.477	(1.106)	2004976	50.0000	50.7196(A)	
26 Benzo(g,h,i)perylene	276		8.685	8.669	(1.132)	2146933	50.0000	50.5756(A)	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AD09009.D

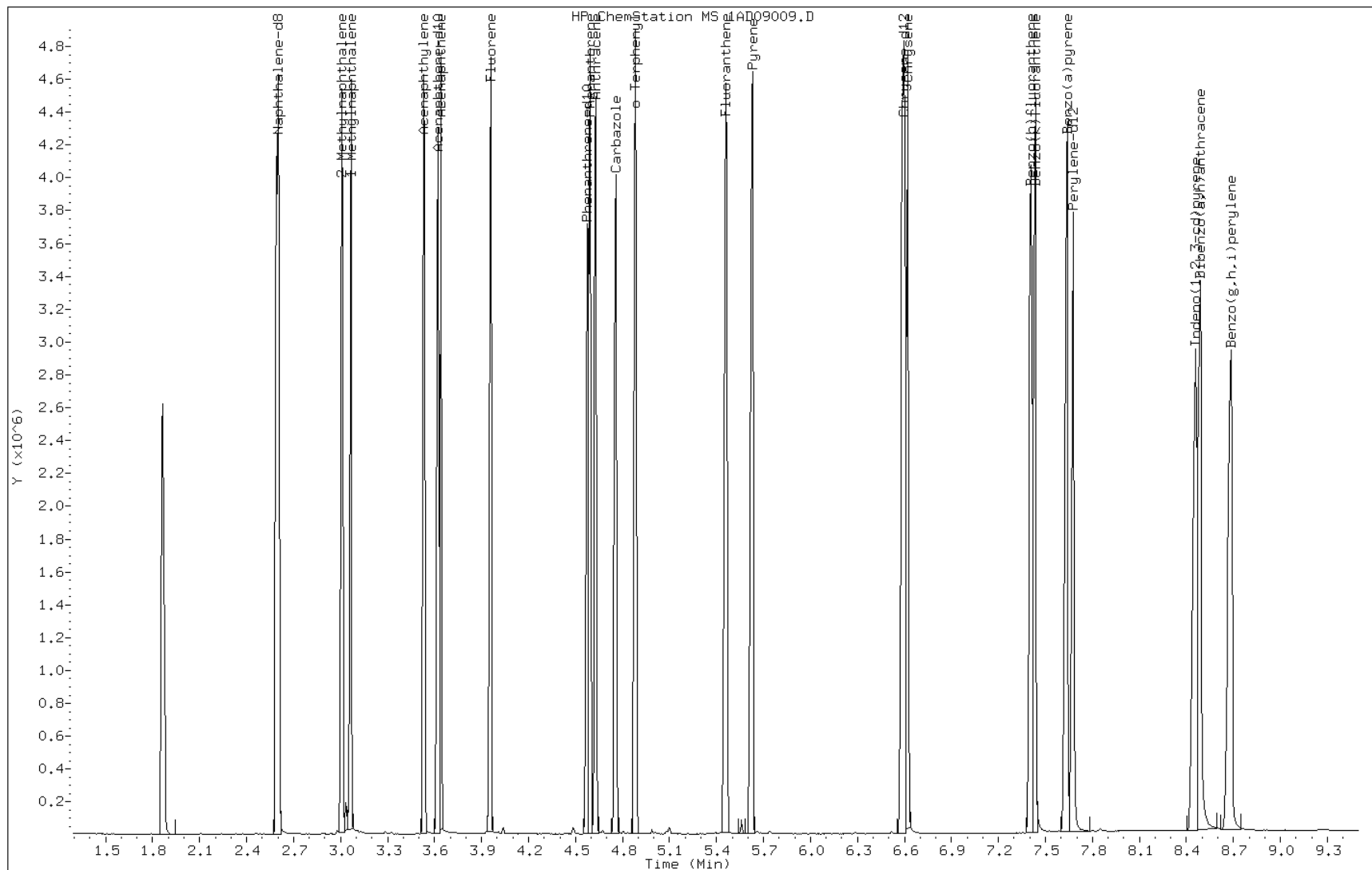
Date: 09-APR-2013 12:03

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531403

Operator: SCC

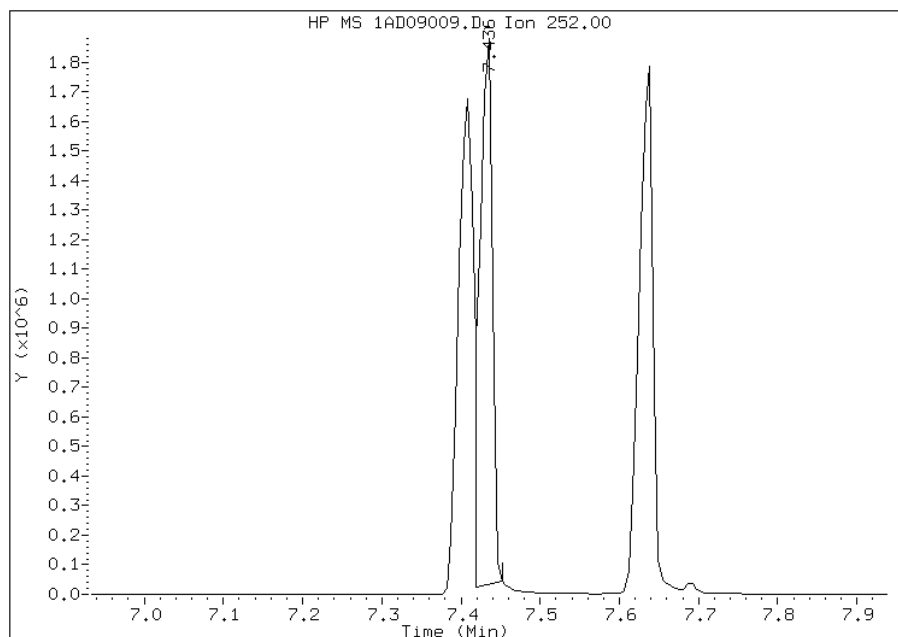


Manual Integration Report

Data File: 1AD09009.D
Inj. Date and Time: 09-APR-2013 12:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

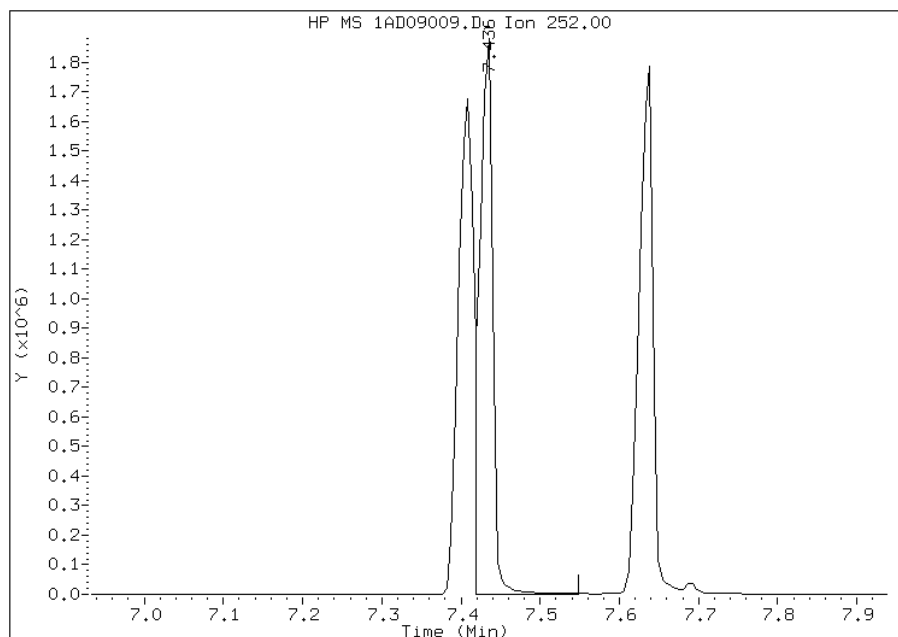
Processing Integration Results

RT: 7.44
Response: 2027064
Amount: 38
Conc: 38



Manual Integration Results

RT: 7.44
Response: 2141556
Amount: 40
Conc: 40



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 12:32
Manual Integration Reason: Baseline Event

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88913-1 Analy Batch No.: 136048

SDG No.: 680088913-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.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	0.9951 1.0462	0.9249 1.0491	1.1511	1.0146	1.0107	Ave		1.0274			0.0000	6.7		15.0			
2-Methylnaphthalene	0.7586 0.6820	0.6817 0.7025	0.6887	0.7485	0.6335	Ave		0.6994			0.0000	6.1		15.0			
1-Methylnaphthalene	0.7248 0.6605	0.4518 0.6576	0.6481	0.6089	0.6533	Ave		0.6293			0.0000	13.6		15.0			
Acenaphthylene	1.4345 1.7430	1.5801 1.7453	1.7015	1.6743	1.7098	Ave		1.6555			0.0000	6.8		15.0			
Acenaphthene	0.8041 1.0063	1.3709 1.0300	0.9518	0.9544	1.0574	Lin		1.0254			0.0000				0.9993		0.9900
Fluorene	1.2800 1.3623	1.5080 1.3691	1.4076	1.2955	1.3459	Ave		1.3669			0.0000	5.6		15.0			
Phenanthrene	1.2753 1.1465	1.1377 1.2101	1.1311	1.1382	1.1160	Ave		1.1650			0.0000	4.9		15.0			
Anthracene	1.2299 1.2077	1.1082 1.2343	1.1512	1.1740	1.1613	Ave		1.1810			0.0000	3.9		15.0			
Carbazole	0.9389 1.0577	0.8968 1.0652	1.0685	0.9845	1.0709	Ave		1.0118			0.0000	7.1		15.0			
Fluoranthene	1.0844 1.3160	1.1991 1.4023	1.3527	1.3181	1.3335	Ave		1.2866			0.0000	8.4		15.0			
Pyrene	1.0454 1.1504	1.0946 1.1474	1.1166	1.0638	1.1380	Ave		1.1080			0.0000	3.8		15.0			
Benzo[a]anthracene	1.9586 1.1436	1.3015 1.1642	1.1246	1.1267	1.1237	Lin	0.0034	1.1590			0.0000				0.9997		0.9900
Chrysene	1.0137 1.1434	1.2130 1.1619	1.2029	1.1145	1.1295	Ave		1.1398			0.0000	5.8		15.0			
Benzo[b]fluoranthene	1.4007 1.0698	0.9300 1.1884	1.1544	1.1244	1.0480	Ave		1.1308			0.0000	12.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88913-1 Analy Batch No.: 136048

SDG No.: 680088913-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9952 1.1459	1.0465 1.1495	1.1058	1.1151	1.0979	Ave		1.0937			0.0000	5.1		15.0			
Benzo[a]pyrene	1.2128 1.0446	0.9589 1.1556	1.0227	1.0341	1.0238	Ave		1.0647			0.0000	8.2		15.0			
Indeno[1,2,3-cd]pyrene	1.2338 1.0436	0.9049 1.0226	1.0384	0.9595	0.8756	Ave		1.0112			0.0000	11.7		15.0			
Dibenz(a,h)anthracene	0.9208 0.9567	0.9397 0.9834	0.8833	0.9304	0.9246	Ave		0.9341			0.0000	3.3		15.0			
Benzo[g,h,i]perylene	1.0683 1.0751	0.9692 1.0455	1.0646	1.0048	0.9970	Ave		1.0321			0.0000	4.0		15.0			
o-Terphenyl	0.8162 0.5958	0.5068 0.6604	0.5759	0.6060	0.6022	Lin	0.0181	0.6529			0.0000				0.9966		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88913-1 Analy Batch No.: 136048

SDG No.: 680088913-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.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	2264 350333	10440 668649	65815	121970	253190	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	1726 228375	7695 447751	39376	89978	158694	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1649 221182	5100 419135	37056	73198	163647	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	2387 423924	12563 814053	70473	148174	308909	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Lin	1338 244735	10900 480392	39421	84460	191043	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	2130 331328	11990 638557	58298	114648	243174	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	3900 529536	16838 1077014	88442	194036	392252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	3761 557837	16401 1098599	90016	200131	408192	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2871 488550	13272 948101	83549	167822	376402	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	3316 607836	17746 1248081	105772	224705	468708	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	4087 663294	20532 1360548	109963	236267	498076	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin	7657 659379	24413 1380443	110756	250220	491852	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	3963 659226	22752 1377767	118460	247512	494376	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	5890 671785	19731 1443812	127315	261073	494109	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	4185 719552	22203 1396501	121957	258924	517620	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.: 680-88913-1 Analy Batch No.: 136048

SDG No.: 680088913-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

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	5100 655944	20343 1403971	112782	240110	482722	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	5188 655344	19198 1242391	114519	222795	412839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	3872 600720	19937 1194691	97409	216036	435940	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	4492 675124	20561 1270187	117403	233308	470085	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Lin	2496 275212	7501 587824	45027	103309	211673	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02005.D
 Lab Smp Id: IC1
 Inj Date : 02-APR-2013 13:26
 Operator : SCC
 Smp Info : IC1
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
 Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
 Als bottle: 5 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Inst ID: BSMC5973.i
 Compound Sublist: pah.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	455021	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	332800	40.0000	
* 10 Phenanthrene-d10	188	5.757	5.757	(1.000)	611597	40.0000	
\$ 14 o-Terphenyl	230	6.004	6.004	(1.043)	2496	0.20000	0.2618
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	781900	40.0000	
* 23 Perylene-d12	264	8.909	8.909	(1.000)	841000	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	2264	0.20000	0.1937
3 2-Methylnaphthalene	142	4.157	4.157	(1.120)	1726	0.20000	0.2169
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	1649	0.20000	0.2303
5 Acenaphthylene	152	4.716	4.716	(0.982)	2387	0.20000	0.1733
7 Acenaphthene	154	4.821	4.821	(1.004)	1338	0.20000	0.1568(Q)
9 Fluorene	166	5.145	5.145	(1.071)	2130	0.20000	0.1872
11 Phenanthrene	178	5.768	5.768	(1.002)	3900	0.20000	0.2189
12 Anthracene	178	5.804	5.804	(1.008)	3761	0.20000	0.2082
13 Carbazole	167	5.915	5.915	(1.028)	2871	0.20000	0.1855
15 Fluoranthene	202	6.604	6.604	(1.147)	3316	0.20000	0.1685
16 Pyrene	202	6.774	6.774	(0.879)	4087	0.20000	0.1886
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	7657	0.20000	0.3066
19 Chrysene	228	7.727	7.727	(1.003)	3963	0.20000	0.1778
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	5890	0.20000	0.2477(H)
21 Benzo(k)fluoranthene	252	8.586	8.586	(0.964)	4185	0.20000	0.1819(H)
22 Benzo(a)pyrene	252	8.851	8.851	(0.993)	5100	0.20000	0.2278(H)
24 Indeno(1,2,3-cd)pyrene	276	10.062	10.062	(1.129)	5188	0.20000	0.2440
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.132)	3872	0.20000	0.1971(MH)
26 Benzo(g,h,i)perylene	276	10.415	10.415	(1.169)	4492	0.20000	0.2070(H)

QC Flag Legend

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

Data File: 1CD02005.D

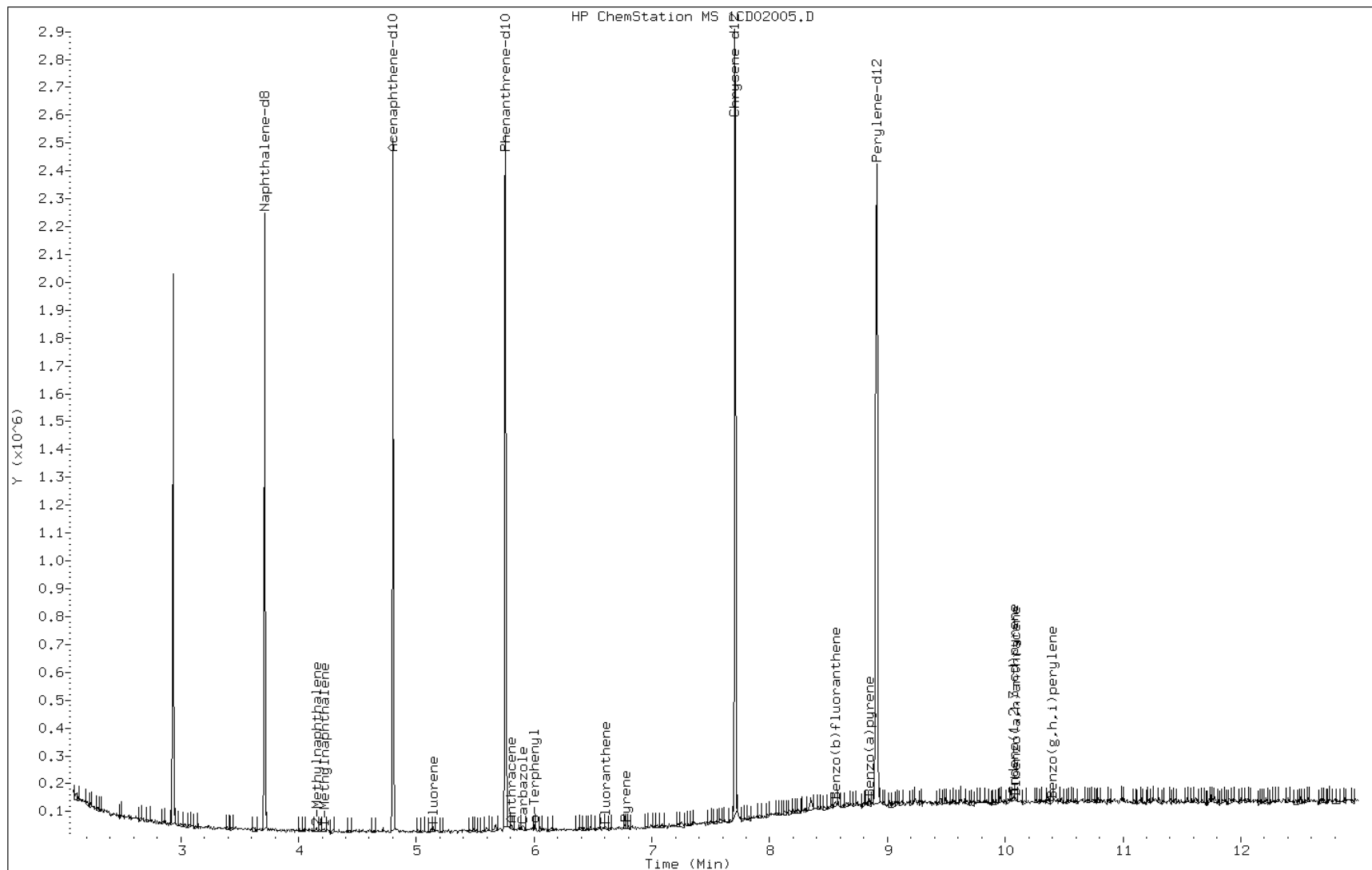
Date: 02-APR-2013 13:26

Client ID:

Instrument: BSMC5973.i

Sample Info: IC1

Operator: SCC



Manual Integration Report

Data File: 1CD02005.D
Inj. Date and Time: 02-APR-2013 13:26
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/02/2013

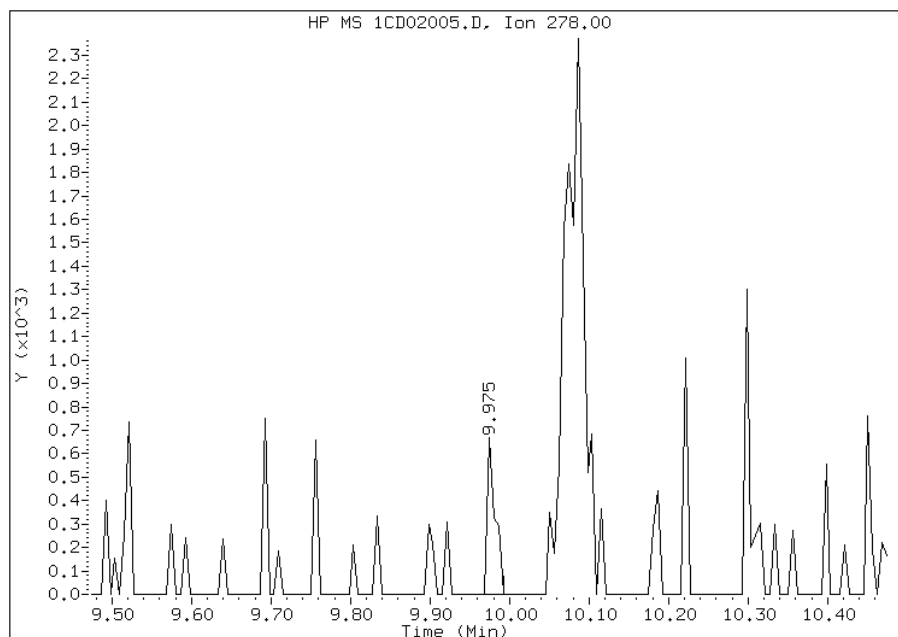
Processing Integration Results

RT: 9.97

Response: 454

Amount: 0

Conc: 0



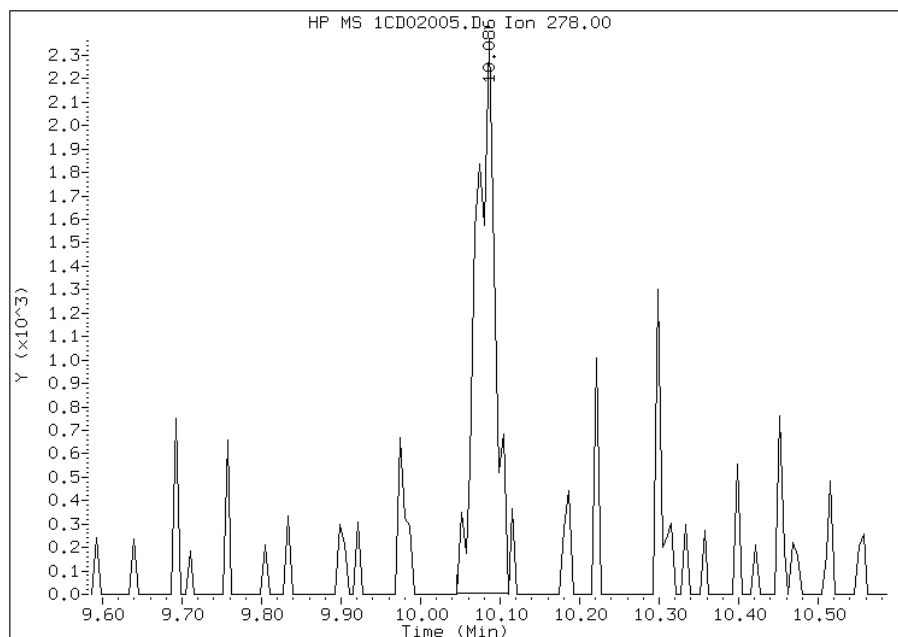
Manual Integration Results

RT: 10.09

Response: 3872

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:44
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02006.D
 Lab Smp Id: IC2
 Inj Date : 02-APR-2013 13:44
 Operator : SCC
 Smp Info : IC2
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
 Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
 Cal Date : 02-APR-2013 13:26 Cal File: 1CD02005.D
 Als bottle: 6 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Compound Sublist: pah.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	451517	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	318036	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	591987	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	7501	1.00000	0.8130
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	750291	40.0000	(H)
* 23 Perylene-d12	264	8.862	8.862	(1.000)	848618	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	10440	1.00000	0.9002
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	7695	1.00000	0.9747
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	5100	1.00000	0.7179(Q)
5 Acenaphthylene	152	4.710	4.710	(0.982)	12563	1.00000	0.9544
7 Acenaphthene	154	4.821	4.821	(1.005)	10900	1.00000	1.3375(Q)
9 Fluorene	166	5.139	5.139	(1.071)	11990	1.00000	1.1032
11 Phenanthrene	178	5.762	5.762	(1.003)	16838	1.00000	0.9766
12 Anthracene	178	5.798	5.798	(1.009)	16401	1.00000	0.9383
13 Carbazole	167	5.904	5.904	(1.028)	13272	1.00000	0.8863
15 Fluoranthene	202	6.598	6.598	(1.148)	17746	1.00000	0.9319
16 Pyrene	202	6.762	6.762	(0.880)	20532	1.00000	0.9878(H)
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	24413	1.00000	1.0187(H)
19 Chrysene	228	7.704	7.704	(1.002)	22752	1.00000	1.0641
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	19731	1.00000	0.8224(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	22203	1.00000	0.9568(H)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	20343	1.00000	0.9006(H)
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	19198	1.00000	0.8948(MH)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	19937	1.00000	1.0060(H)
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	20561	1.00000	0.9390(H)

QC Flag Legend

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

Data File: 1CD02006.D

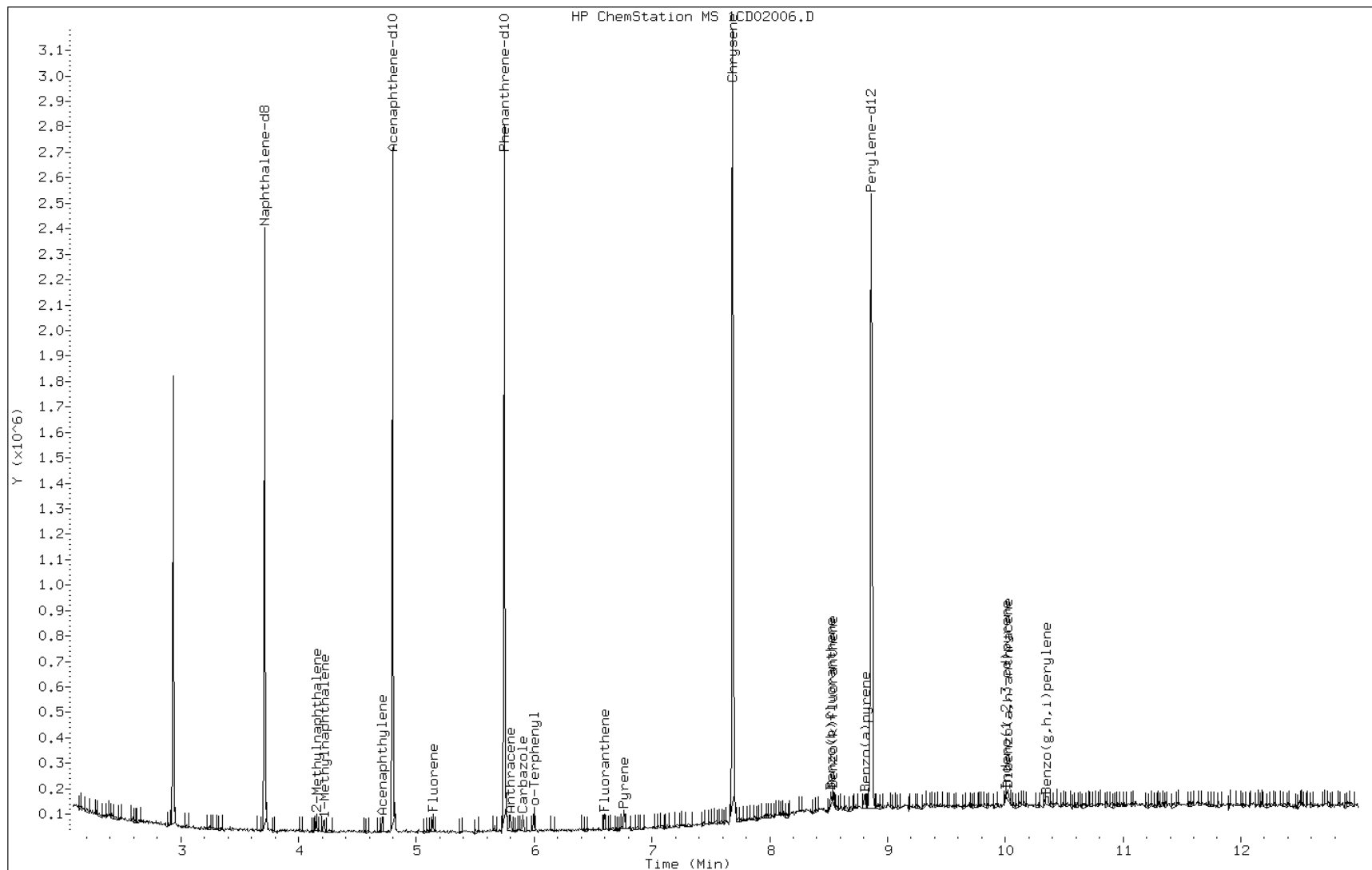
Date: 02-APR-2013 13:44

Client ID:

Instrument: BSMC5973.i

Sample Info: IC2

Operator: SCC

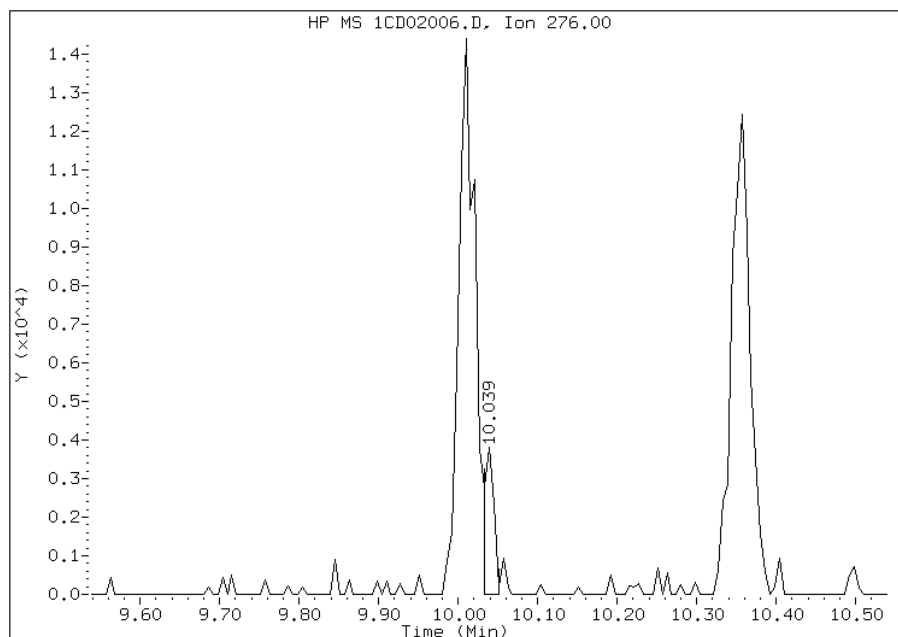


Manual Integration Report

Data File: 1CD02006.D
Inj. Date and Time: 02-APR-2013 13:44
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

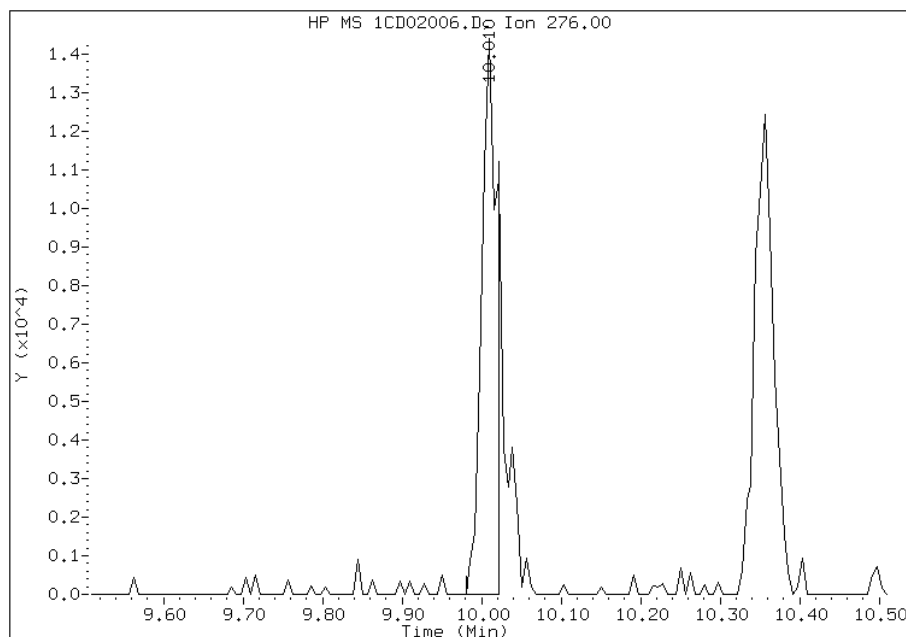
Processing Integration Results

RT: 10.04
Response: 3225
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.01
Response: 19198
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:45
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02007.D
Lab Smp Id: IC3
Inj Date : 02-APR-2013 14:02
Operator : SCC
Smp Info : IC3
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:44 Cal File: 1CD02006.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	457408	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	331342	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	625535	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	45027	5.00000	4.6190
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	787858	40.0000	
* 23 Perylene-d12	264	8.856	8.856	(1.000)	882270	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	65815	5.00000	5.6020
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	39376	5.00000	4.9236
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	37056	5.00000	5.1494(Q)
5 Acenaphthylene	152	4.710	4.710	(0.982)	70473	5.00000	5.1389
7 Acenaphthene	154	4.821	4.821	(1.005)	39421	5.00000	4.6430
9 Fluorene	166	5.139	5.139	(1.071)	58298	5.00000	5.1486
11 Phenanthrene	178	5.763	5.763	(1.003)	88442	5.00000	4.8545
12 Anthracene	178	5.792	5.792	(1.008)	90016	5.00000	4.8741
13 Carbazole	167	5.904	5.904	(1.028)	83549	5.00000	5.2803
15 Fluoranthene	202	6.598	6.598	(1.148)	105772	5.00000	5.2570
16 Pyrene	202	6.762	6.762	(0.880)	109963	5.00000	5.0385
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	110756	5.00000	4.4014
19 Chrysene	228	7.704	7.704	(1.002)	118460	5.00000	5.2764(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	127315	5.00000	5.1043
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	121957	5.00000	5.0554(H)
22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	112782	5.00000	4.8027(H)
24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	114519	5.00000	5.1344(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	97409	5.00000	4.7277(H)
26 Benzo(g,h,i)perylene	276	10.345	10.345	(1.168)	117403	5.00000	5.1573(H)

QC Flag Legend

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

Data File: 1CD02007.D

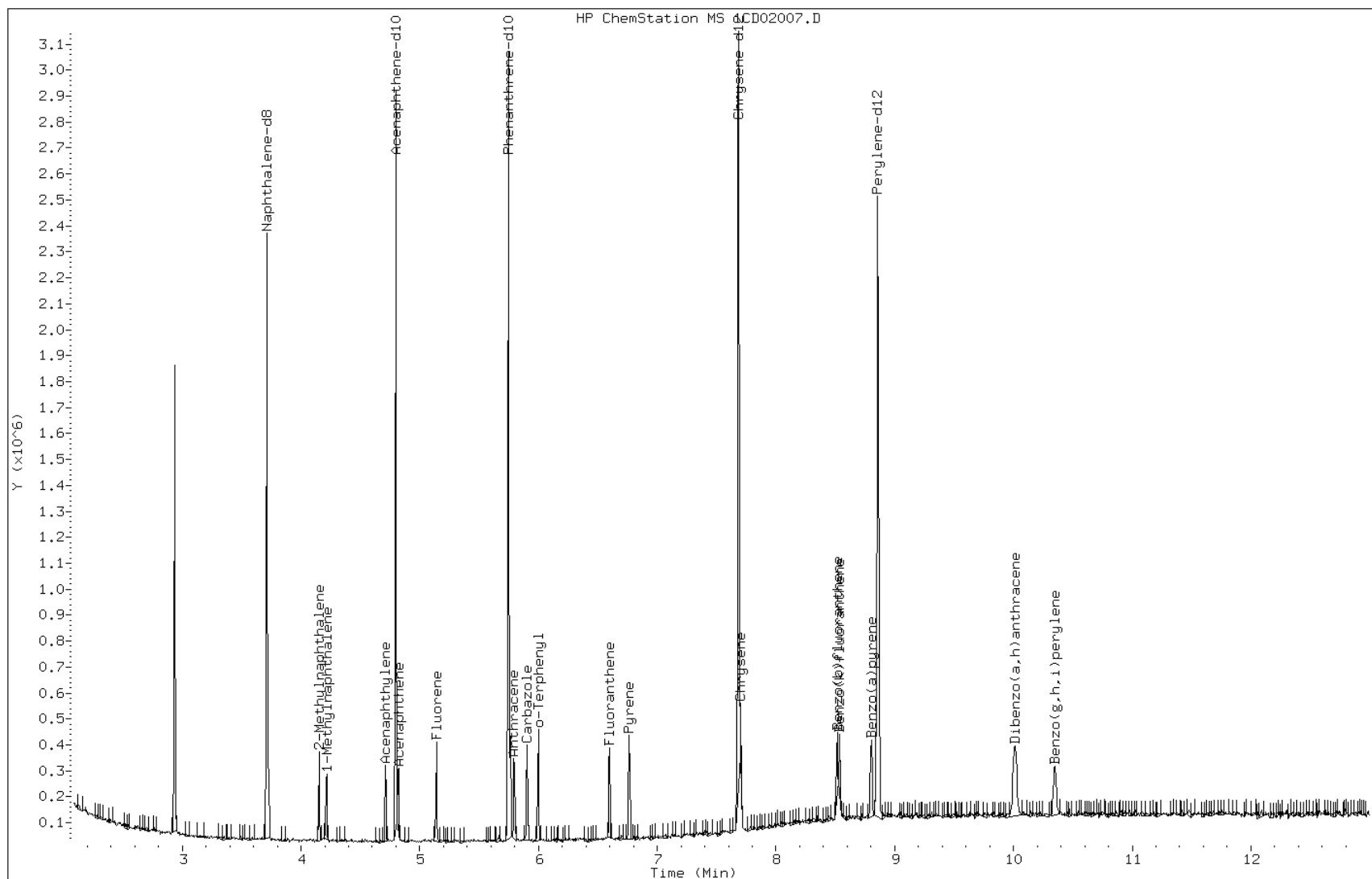
Date: 02-APR-2013 14:02

Client ID:

Instrument: BSMC5973.i

Sample Info: IC3

Operator: SCC

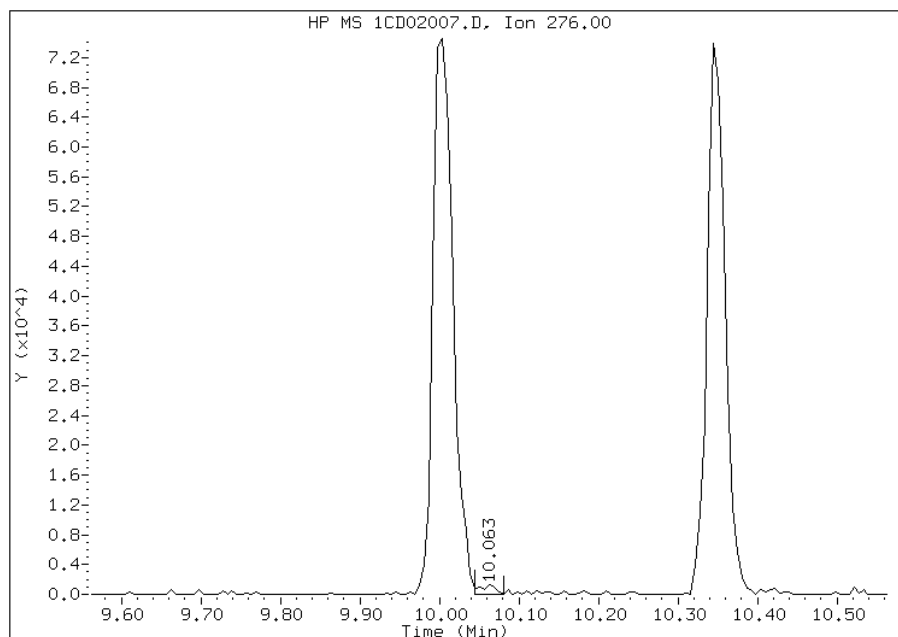


Manual Integration Report

Data File: 1CD02007.D
Inj. Date and Time: 02-APR-2013 14:02
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

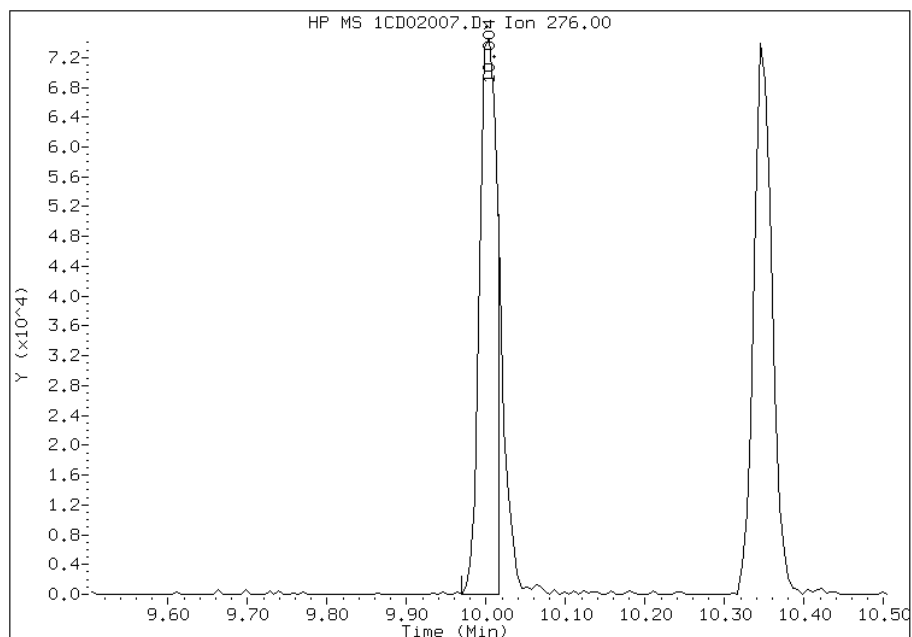
Processing Integration Results

RT: 10.06
Response: 1809
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.00
Response: 114519
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:48
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02008.D
Lab Smp Id: IC4
Inj Date : 02-APR-2013 14:20
Operator : SCC
Smp Info : IC4
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:02 Cal File: 1CD02007.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	480844	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	353988	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	681887	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	103309	10.0000	9.7219
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	888354	40.0000	
* 23 Perylene-d12	264	8.856	8.856	(1.000)	928754	40.0000	
2 Naphthalene	128	3.727	3.727	(1.005)	121970	10.0000	9.8758
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	89978	10.0000	10.7026
4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	73198	10.0000	9.6761
5 Acenaphthylene	152	4.710	4.710	(0.982)	148174	10.0000	10.1137
7 Acenaphthene	154	4.821	4.821	(1.005)	84460	10.0000	9.3113
9 Fluorene	166	5.139	5.139	(1.071)	114648	10.0000	9.4775
11 Phenanthrene	178	5.762	5.762	(1.003)	194036	10.0000	9.7703
12 Anthracene	178	5.792	5.792	(1.008)	200131	10.0000	9.9409
13 Carbazole	167	5.904	5.904	(1.028)	167822	10.0000	9.7299
15 Fluoranthene	202	6.598	6.598	(1.148)	224705	10.0000	10.2452
16 Pyrene	202	6.762	6.762	(0.880)	236267	10.0000	9.6011
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	250220	10.0000	8.8188
19 Chrysene	228	7.703	7.703	(1.002)	247512	10.0000	9.7775(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	261073	10.0000	9.9431(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	258924	10.0000	10.1958(H)
22 Benzo(a)pyrene	252	8.803	8.803	(0.994)	240110	10.0000	9.7131
24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	222795	10.0000	9.4889(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	216036	10.0000	9.9604
26 Benzo(g,h,i)perylene	276	10.350	10.350	(1.169)	233308	10.0000	9.7359(H)

QC Flag Legend

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

Data File: 1CD02008.D

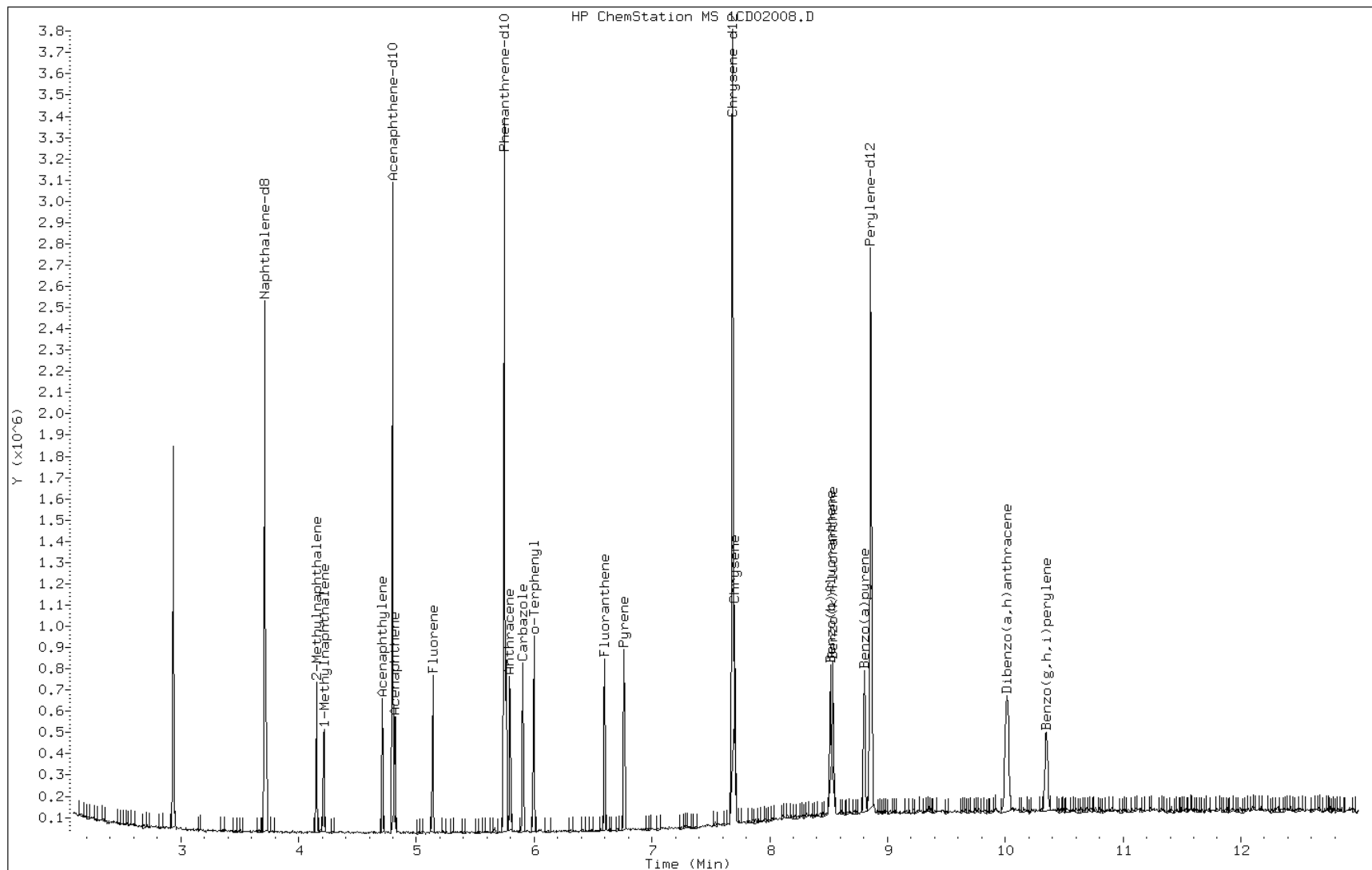
Date: 02-APR-2013 14:20

Client ID:

Instrument: BSMC5973.i

Sample Info: IC4

Operator: SCC



Manual Integration Report

Data File: 1CD02008.D
Inj. Date and Time: 02-APR-2013 14:20
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

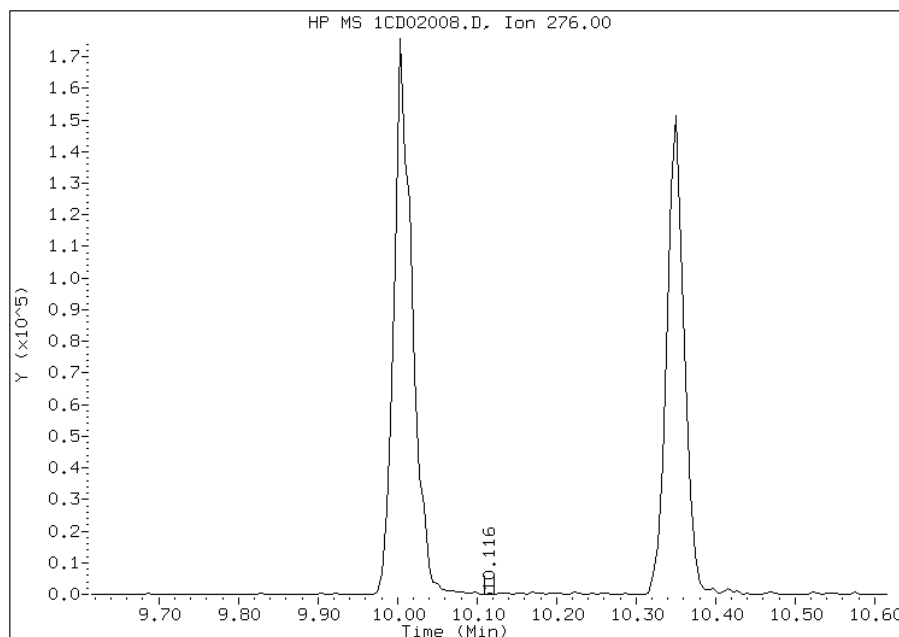
Processing Integration Results

RT: 10.12

Response: 142

Amount: 0

Conc: 0



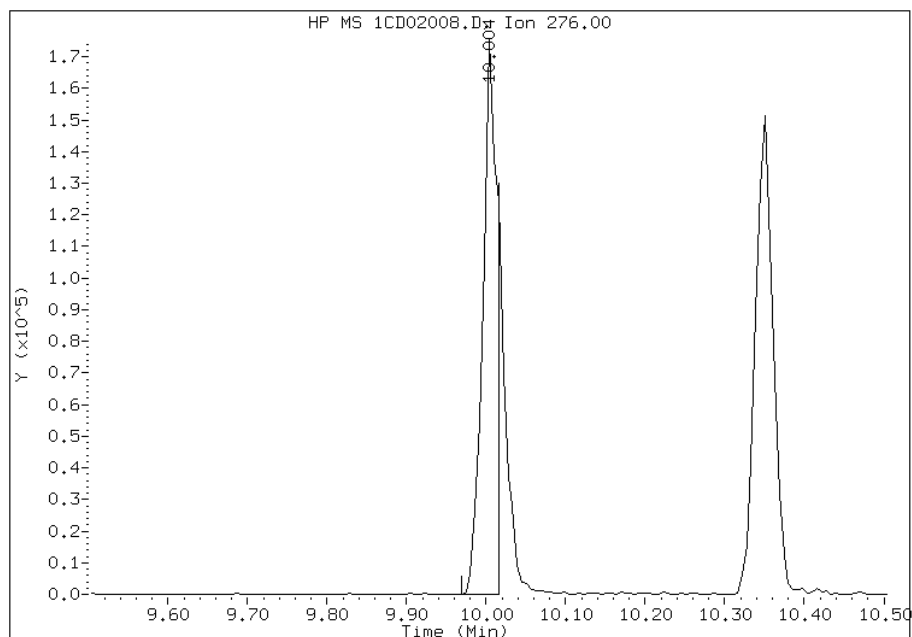
Manual Integration Results

RT: 10.00

Response: 222795

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:49
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02009.D
 Lab Smp Id: IC5
 Inj Date : 02-APR-2013 14:39
 Operator : SCC
 Smp Info : IC5
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
 Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
 Cal Date : 02-APR-2013 14:20 Cal File: 1CD02008.D
 Als bottle: 9 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Inst ID: BSMC5973.i
 Compound Sublist: pah.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	501011	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	361349	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	702974	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	211673	20.0000	19.3221
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	875378	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	942955	40.0000	
2 Naphthalene	128	3.721	3.721	(1.003)	253190	20.0000	19.6753
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	158694	20.0000	18.1163
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	163647	20.0000	20.7620
5 Acenaphthylene	152	4.710	4.710	(0.982)	308909	20.0000	20.6554
7 Acenaphthene	154	4.821	4.821	(1.005)	191043	20.0000	20.6326
9 Fluorene	166	5.139	5.139	(1.071)	243174	20.0000	19.6928
11 Phenanthrene	178	5.762	5.762	(1.003)	392252	20.0000	19.1586
12 Anthracene	178	5.798	5.798	(1.009)	408192	20.0000	19.6676
13 Carbazole	167	5.904	5.904	(1.028)	376402	20.0000	21.1684
15 Fluoranthene	202	6.598	6.598	(1.148)	468708	20.0000	20.7293
16 Pyrene	202	6.762	6.762	(0.880)	498076	20.0000	20.5403
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	491852	20.0000	17.5920
19 Chrysene	228	7.704	7.704	(1.002)	494376	20.0000	19.8190
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	494109	20.0000	18.5350
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	517620	20.0000	20.0758
22 Benzo(a)pyrene	252	8.803	8.803	(0.993)	482722	20.0000	19.2334
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	412839	20.0000	17.3182(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	435940	20.0000	19.7965
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	470085	20.0000	19.3212

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02009.D

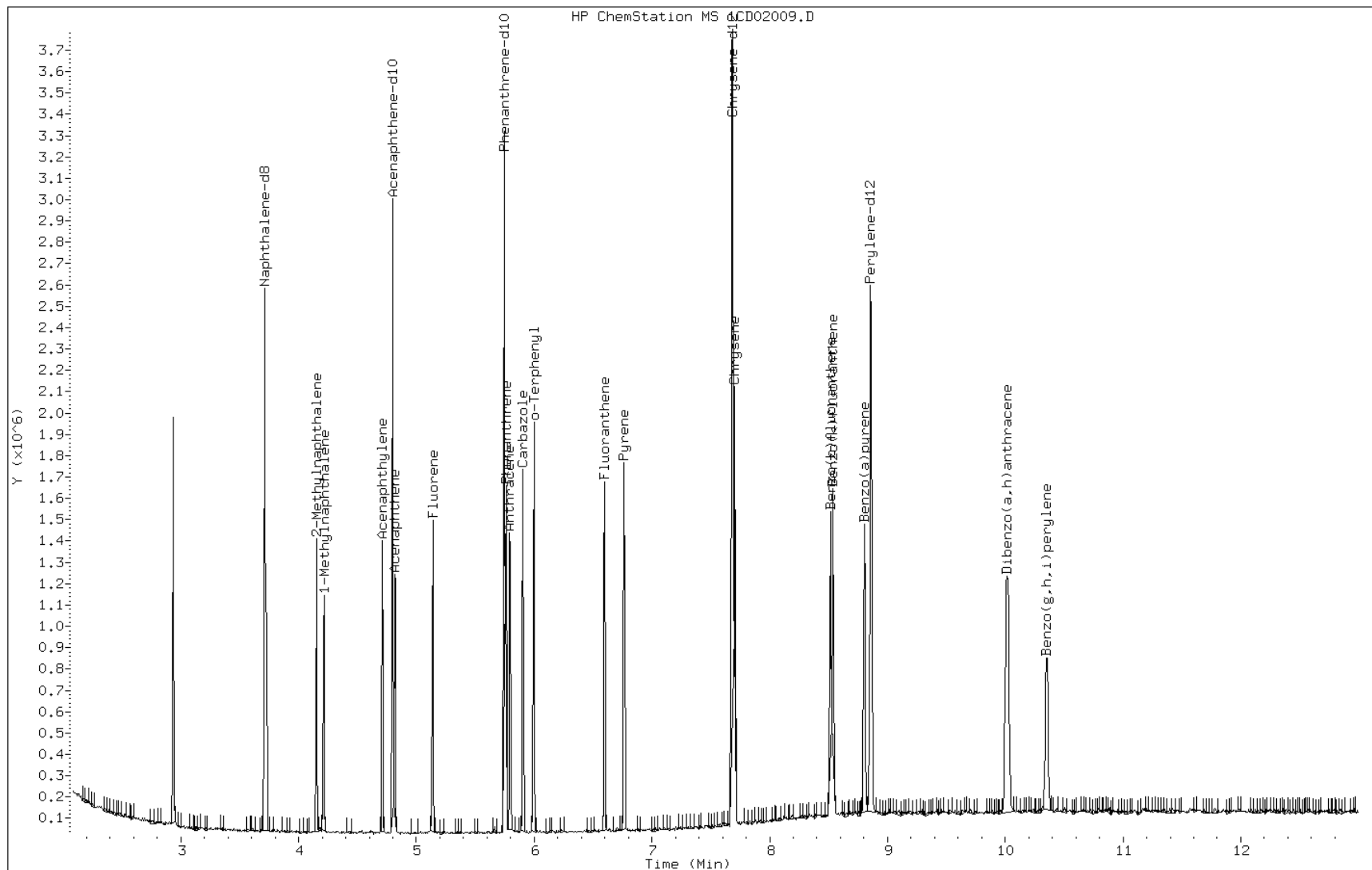
Date: 02-APR-2013 14:39

Client ID:

Instrument: BSMC5973.i

Sample Info: IC5

Operator: SCC

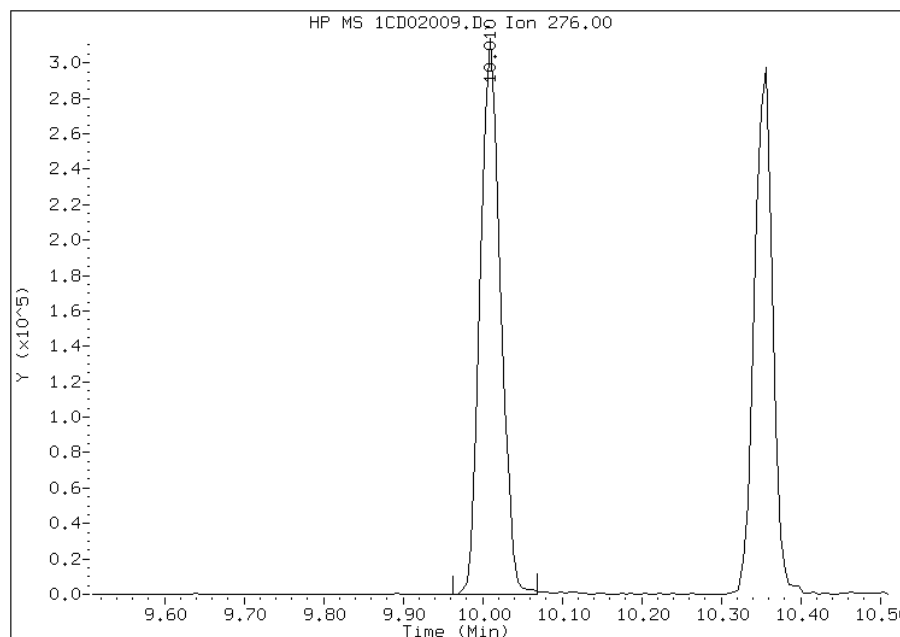


Manual Integration Report

Data File: 1CD02009.D
Inj. Date and Time: 02-APR-2013 14:39
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

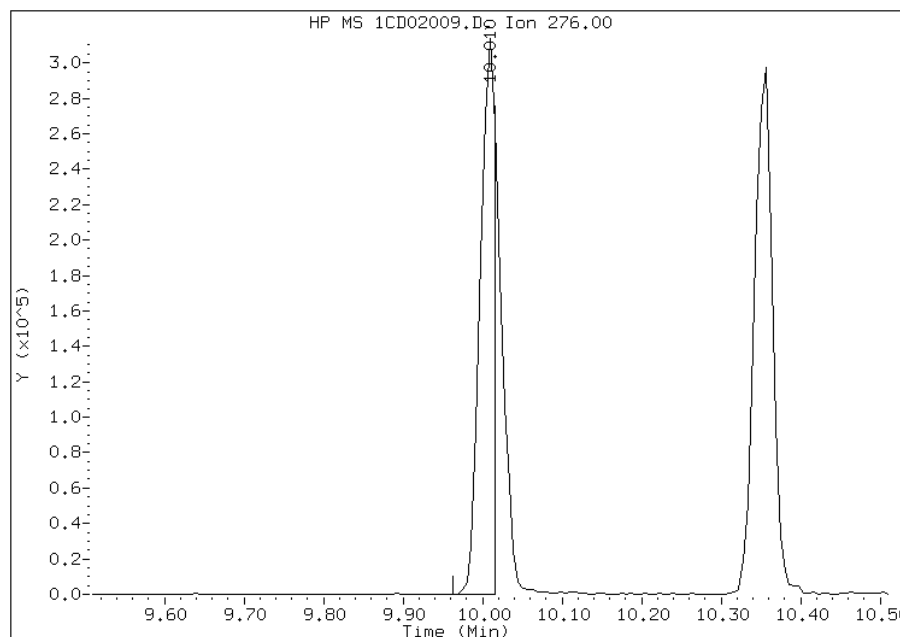
Processing Integration Results

RT: 10.01
Response: 550558
Amount: 32
Conc: 32



Manual Integration Results

RT: 10.01
Response: 412839
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02010.D
Lab Smp Id: IC6
Inj Date : 02-APR-2013 14:57
Operator : SCC
Smp Info : IC6
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:39 Cal File: 1CD02009.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	446499	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	324284	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	615852	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	275212	30.0000	28.6761
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	768745	40.0000	
* 23 Perylene-d12	264	8.857	8.857	(1.000)	837251	40.0000	
2 Naphthalene	128	3.722	3.722	(1.003)	350333	30.0000	30.5481
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	228375	30.0000	29.2540
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	221182	30.0000	31.4875
5 Acenaphthylene	152	4.710	4.710	(0.982)	423924	30.0000	31.5858
7 Acenaphthene	154	4.822	4.822	(1.005)	244735	30.0000	29.4523
9 Fluorene	166	5.139	5.139	(1.071)	331328	30.0000	29.8986
11 Phenanthrene	178	5.763	5.763	(1.003)	529536	30.0000	29.5228
12 Anthracene	178	5.792	5.792	(1.008)	557837	30.0000	30.6801
13 Carbazole	167	5.904	5.904	(1.028)	488550	30.0000	31.3623
15 Fluoranthene	202	6.598	6.598	(1.148)	607836	30.0000	30.6854
16 Pyrene	202	6.763	6.763	(0.880)	663294	30.0000	31.1481
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	659379	30.0000	26.8553
19 Chrysene	228	7.704	7.704	(1.002)	659226	30.0000	30.0935(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	671785	30.0000	28.3815(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	719552	30.0000	31.4311(H)
22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	655944	30.0000	29.4349
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.130)	655344	30.0000	30.9619(MH)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.132)	600720	30.0000	30.7234
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	675124	30.0000	31.2520(H)

QC Flag Legend

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

Data File: 1CD02010.D

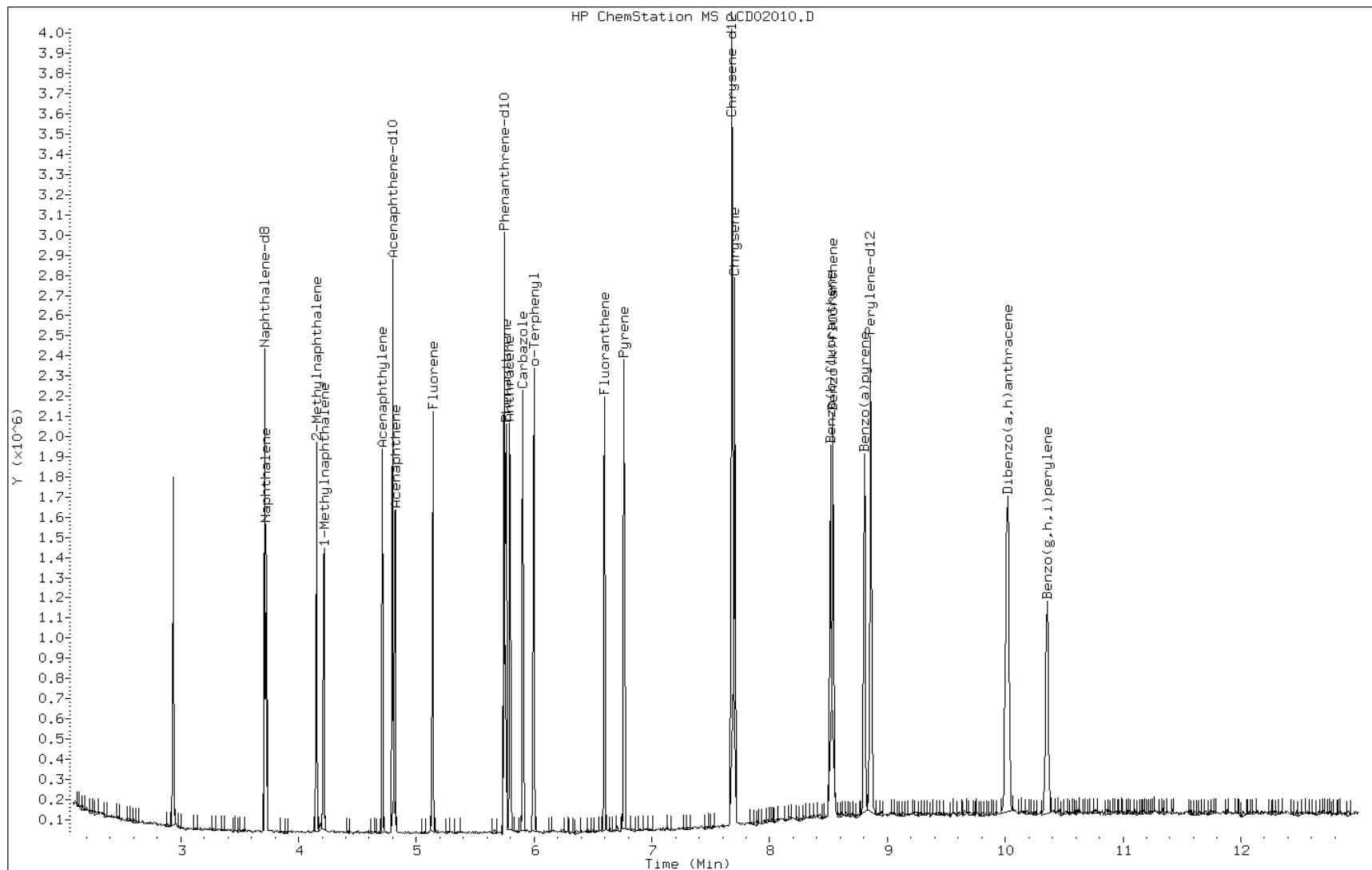
Date: 02-APR-2013 14:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC6

Operator: SCC

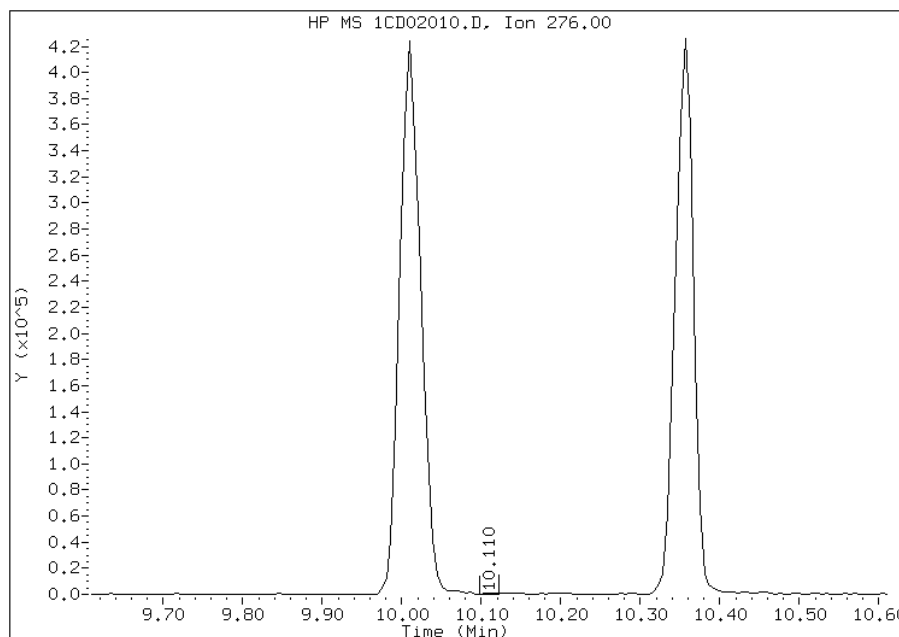


Manual Integration Report

Data File: 1CD02010.D
Inj. Date and Time: 02-APR-2013 14:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

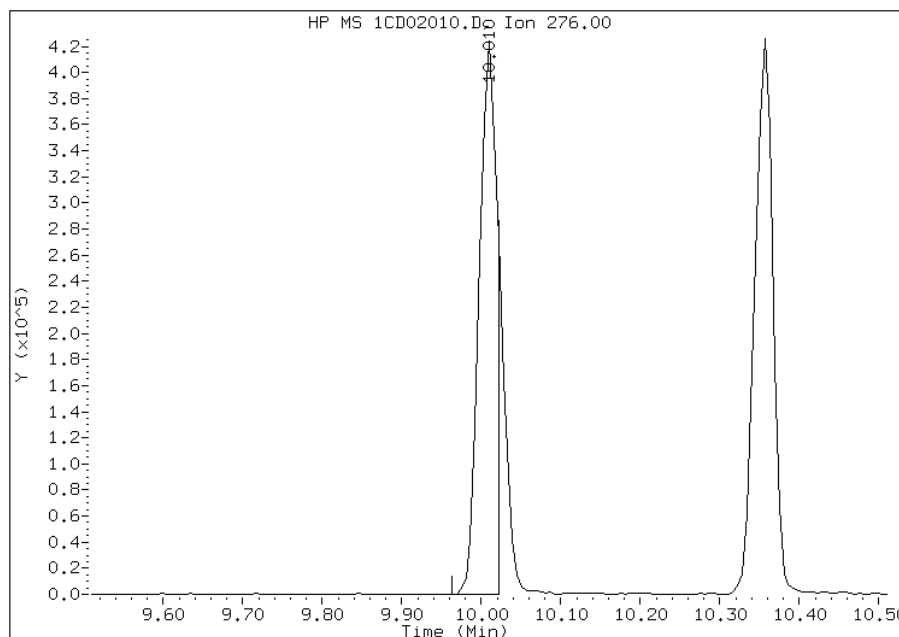
Processing Integration Results

RT: 10.11
Response: 1008
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.01
Response: 655344
Amount: 31
Conc: 31



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:50
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02011.D
Lab Smp Id: IC7
Inj Date : 02-APR-2013 15:15
Operator : SCC
Smp Info : IC7
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:57 Cal File: 1CD02010.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	509868	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	373136	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	712035	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	587824	50.0000	52.9755(A)
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	948633	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	971909	40.0000	
2 Naphthalene	128	3.727	3.727	(1.005)	668649	50.0000	51.0580(A)
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	447751	50.0000	50.2269(A)
4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	419135	50.0000	52.2523(A)
5 Acenaphthylene	152	4.710	4.710	(0.982)	814053	50.0000	52.7127(A)
7 Acenaphthene	154	4.821	4.821	(1.005)	480392	50.0000	50.2433(A)
9 Fluorene	166	5.139	5.139	(1.071)	638557	50.0000	50.0785(A)
11 Phenanthrene	178	5.762	5.762	(1.003)	1077014	50.0000	51.9349(A)
12 Anthracene	178	5.798	5.798	(1.009)	1098599	50.0000	52.2594(A)
13 Carbazole	167	5.904	5.904	(1.028)	948101	50.0000	52.6415(A)
15 Fluoranthene	202	6.598	6.598	(1.148)	1248081	50.0000	54.4959(A)
16 Pyrene	202	6.762	6.762	(0.880)	1360548	50.0000	51.7754(A)
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	1380443	50.0000	45.5615
19 Chrysene	228	7.709	7.709	(1.003)	1377767	50.0000	50.9681(AH)
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	1443812	50.0000	52.5467(AH)
21 Benzo(k)fluoranthene	252	8.545	8.545	(0.964)	1396501	50.0000	52.5496(AH)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	1403971	50.0000	54.2730(A)
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.015	(1.130)	1242391	50.0000	50.5646(AMH)
25 Dibenzo(a,h)anthracene	278	10.033	10.033	(1.132)	1194691	50.0000	52.6360(A)
26 Benzo(g,h,i)perylene	276	10.362	10.362	(1.169)	1270187	50.0000	50.6515(AH)

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: 1CD02011.D

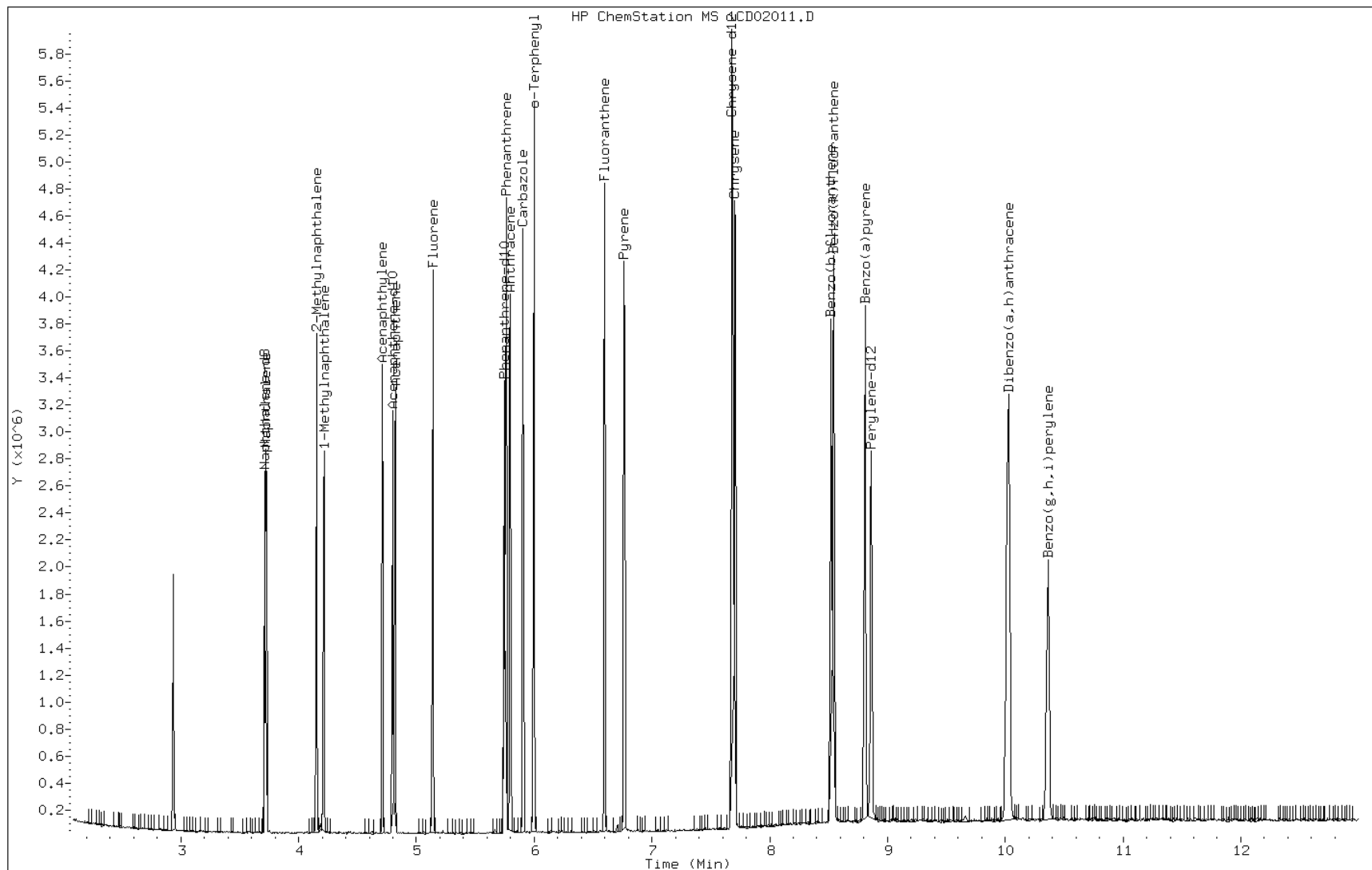
Date: 02-APR-2013 15:15

Client ID:

Instrument: BSMC5973.i

Sample Info: IC7

Operator: SCC



Manual Integration Report

Data File: 1CD02011.D
Inj. Date and Time: 02-APR-2013 15:15
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

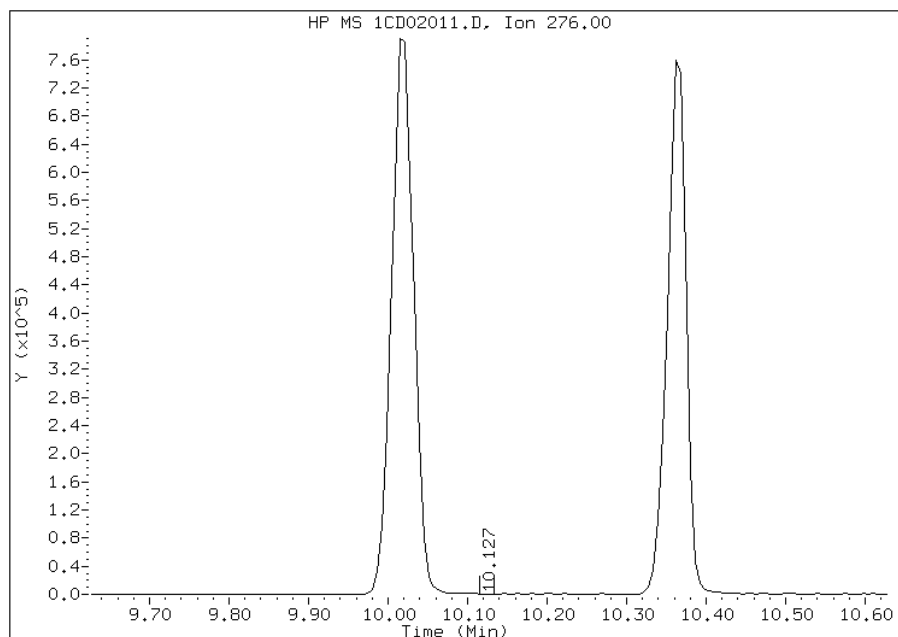
Processing Integration Results

RT: 10.13

Response: 653

Amount: 0

Conc: 0



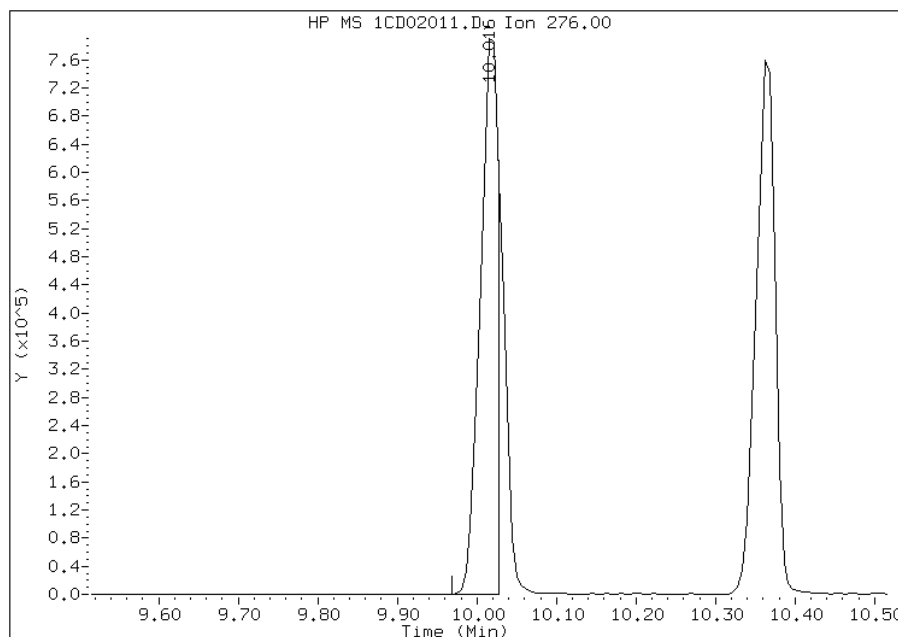
Manual Integration Results

RT: 10.02

Response: 1242391

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:51
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88913-1 Analy Batch No.: 136164

SDG No.: 680088913-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.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	0.9331 1.0230	0.9606 1.0509	1.0286	0.9649	0.9984	Ave		0.9942			0.0000	4.3		15.0			
2-Methylnaphthalene	0.5806 0.6693	0.6114 0.6984	0.6517	0.6297	0.6515	Ave		0.6418			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5558 0.6314	0.5782 0.6544	0.6189	0.5919	0.6119	Ave		0.6061			0.0000	5.5		15.0			
Acenaphthylene	1.4312 1.8297	1.5518 1.8878	1.7317	1.6795	1.7392	Ave		1.6930			0.0000	9.3		15.0			
Acenaphthene	1.0016 1.0873	0.9902 1.1219	1.0649	1.0164	1.0329	Ave		1.0450			0.0000	4.6		15.0			
Fluorene	1.1332 1.3072	1.1795 1.3301	1.2333	1.2265	1.2526	Ave		1.2375			0.0000	5.5		15.0			
Phenanthrene	1.0628 1.1227	1.0409 1.1914	1.1226	1.0753	1.0969	Ave		1.1018			0.0000	4.5		15.0			
Anthracene	0.9667 1.1508	1.0104 1.2102	1.1116	1.0846	1.1206	Ave		1.0936			0.0000	7.6		15.0			
Carbazole	0.8539 0.9974	0.9170 1.0575	0.9788	0.9568	0.9906	Ave		0.9646			0.0000	6.7		15.0			
Fluoranthene	1.0349 1.1765	1.0636 1.2407	1.1552	1.1188	1.1468	Ave		1.1338			0.0000	6.1		15.0			
Pyrene	1.1042 1.2400	1.1445 1.2796	1.2302	1.1952	1.2147	Ave		1.2012			0.0000	5.0		15.0			
Benzo[a]anthracene	1.5223 1.0884	1.1349 1.0935	1.1146	1.0605	1.0812	Ave		1.1565			0.0000	14.1		15.0			
Chrysene	1.1462 1.0803	1.0503 1.1335	1.0831	1.0383	1.0590	Ave		1.0844			0.0000	3.8		15.0			
Benzo[b]fluoranthene	0.9638 1.0305	0.9264 1.0697	1.0233	0.9705	1.0102	Ave		0.9992			0.0000	4.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88913-1 Analy Batch No.: 136164

SDG No.: 680088913-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9941 1.0870	1.0278 1.1123	1.0413	1.0574	1.0488	Ave		1.0527			0.0000	3.7		15.0			
Benzo[a]pyrene	0.9363 1.0554	0.9330 1.0817	1.0086	0.9978	1.0150	Ave		1.0040			0.0000	5.5		15.0			
Indeno[1,2,3-cd]pyrene	0.9719 1.1444	1.0047 1.2203	1.0673	1.0253	1.0598	Ave		1.0705			0.0000	8.0		15.0			
Dibenz(a,h)anthracene	1.0008 1.0474	0.9200 1.0891	1.0022	0.9846	1.0127	Ave		1.0081			0.0000	5.2		15.0			
Benzo[g,h,i]perylene	0.9959 1.0588	1.0032 1.0675	1.0494	1.0184	1.0221	Ave		1.0308			0.0000	2.7		15.0			
o-Terphenyl	0.5239 0.6240	0.5611 0.6847	0.6139	0.5898	0.6214	Ave		0.6027			0.0000	8.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88913-1 Analy Batch No.: 136164

SDG No.: 680088913-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.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	11503 1777021	59216 3211548	316194	614716	1235557	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7158 1162560	37688 2134320	200332	401151	806286	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	6852 1096847	35645 1999874	190230	377068	757317	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10298 1852399	56340 3396591	314191	620756	1275622	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	7207 1100779	35951 2018481	193205	375673	757590	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	8154 1323451	42826 2393163	223769	453336	918747	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	12866 1932978	63070 3534794	338739	657435	1331875	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	11703 1981347	61222 3590722	335430	663091	1360668	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	10338 1717245	55563 3137679	295345	584967	1202897	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	12529 2025512	64445 3681257	348578	684049	1392506	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13274 2181708	69252 3965627	374480	738839	1496990	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	18301 1914899	68675 3388838	339292	655565	1332372	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	13779 1900592	63553 3512644	329706	641842	1305118	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	12005 1811151	57946 3290902	323060	612455	1270704	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	12382 1910468	64288 3421834	328752	667284	1319239	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.: 680-88913-1 Analy Batch No.: 136164

SDG No.: 680088913-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

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	11662 1854979	58354 3327888	318431	629684	1276688	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12106 2011375	62840 3754268	336963	647015	1333044	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	12466 1840819	57541 3350541	316396	621340	1273836	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	12405 1860821	62750 3284166	331324	642692	1285637	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	6343 1074388	33997 2031596	185249	360585	754512	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04007.D
 Lab Smp Id: IC-1531396
 Inj Date : 04-APR-2013 13:49
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1531396
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 5 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/l)	(ug/l)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.091	6.091	(1.000)	2465524	40.0000	
*	6 Acenaphthene-d10	164	7.766	7.766	(1.000)	1439075	40.0000	
*	9 Phenanthrene-d10	188	9.023	9.023	(1.000)	2421253	40.0000	
\$	13 o-Terphenyl	230	9.329	9.329	(1.034)	6343	0.20000	0.17
*	17 Chrysene-d12	240	11.338	11.338	(1.000)	2404329	40.0000	
*	22 Perylene-d12	264	13.165	13.165	(1.000)	2491199	40.0000	
	2 Naphthalene	128	6.109	6.109	(1.003)	11503	0.20000	0.19
	3 2-Methylnaphthalene	142	6.814	6.814	(1.119)	7158	0.20000	0.18
	4 1-Methylnaphthalene	142	6.908	6.908	(1.134)	6852	0.20000	0.18
	5 Acenaphthylene	152	7.637	7.637	(0.983)	10298	0.20000	0.17
	7 Acenaphthene	154	7.789	7.789	(1.003)	7207	0.20000	0.19
	8 Fluorene	166	8.236	8.236	(1.061)	8154	0.20000	0.18
	10 Phenanthrene	178	9.041	9.041	(1.002)	12866	0.20000	0.19
	11 Anthracene	178	9.082	9.082	(1.007)	11703	0.20000	0.18
	12 Carbazole	167	9.223	9.223	(1.022)	10338	0.20000	0.18
	14 Fluoranthene	202	10.022	10.022	(1.111)	12529	0.20000	0.18
	15 Pyrene	202	10.210	10.210	(0.901)	13274	0.20000	0.18
	16 Benzo(a)anthracene	228	11.321	11.321	(0.998)	18301	0.20000	0.28
	18 Chrysene	228	11.356	11.356	(1.002)	13779	0.20000	0.21
	19 Benzo(b)fluoranthene	252	12.613	12.613	(0.958)	12005	0.20000	0.19
	20 Benzo(k)fluoranthene	252	12.648	12.648	(0.961)	12382	0.20000	0.19
	21 Benzo(a)pyrene	252	13.060	13.060	(0.992)	11662	0.20000	0.19
	23 Indeno(1,2,3-cd)pyrene	276	14.734	14.734	(1.119)	12106	0.20000	0.18(M)
	24 Dibenzo(a,h)anthracene	278	14.758	14.758	(1.121)	12466	0.20000	0.20(M)
	25 Benzo(g,h,i)perylene	276	15.175	15.175	(1.153)	12405	0.20000	0.19

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04007.D

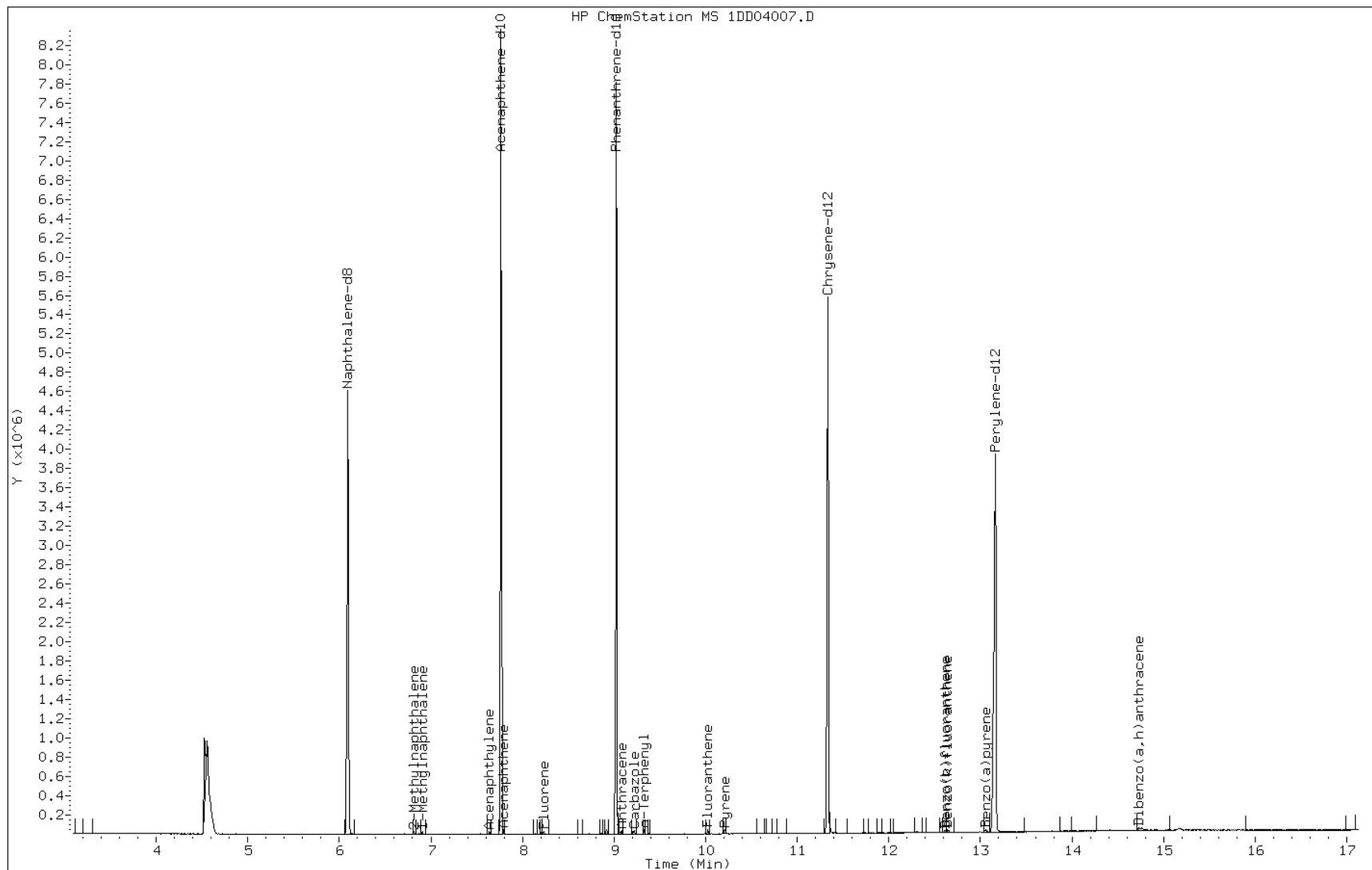
Date: 04-APR-2013 13:49

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531396

Operator: SCC



Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

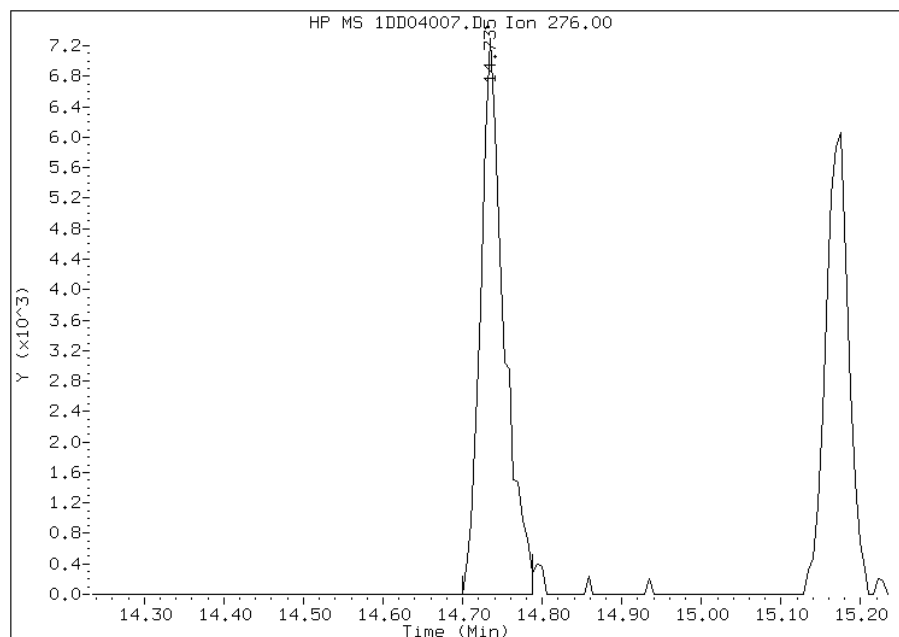
Processing Integration Results

RT: 14.73

Response: 14910

Amount: 0

Conc: 0



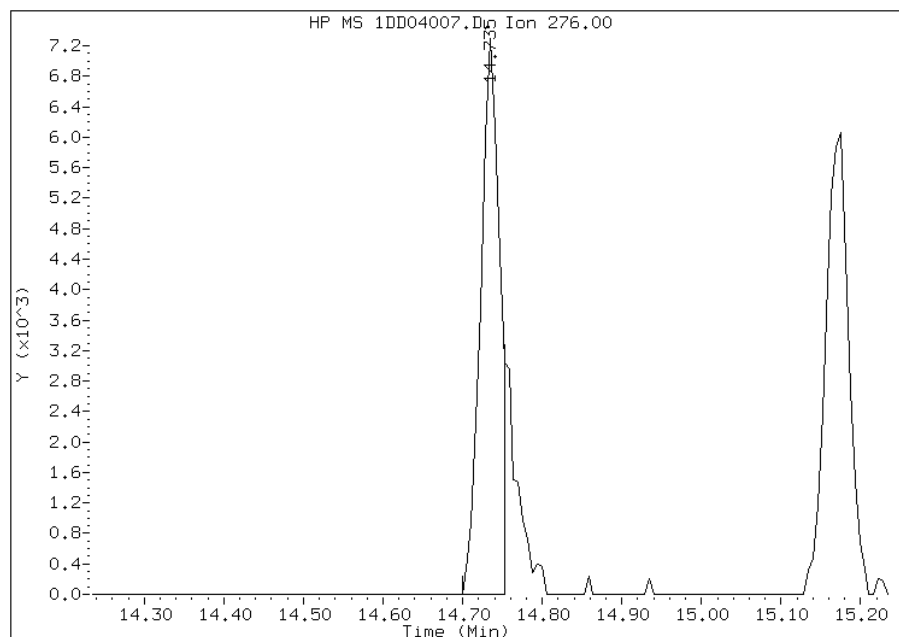
Manual Integration Results

RT: 14.73

Response: 12106

Amount: 0

Conc: 0



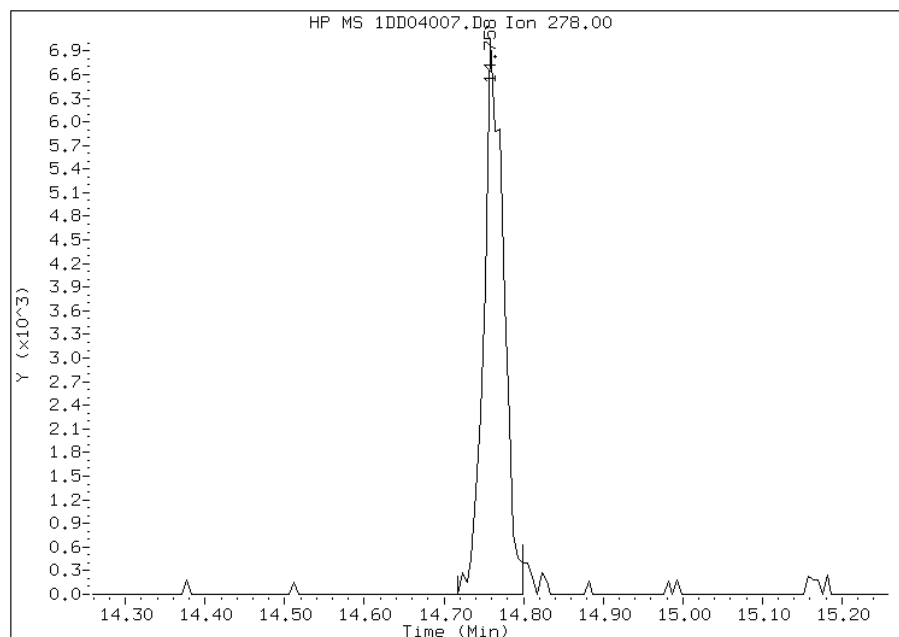
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

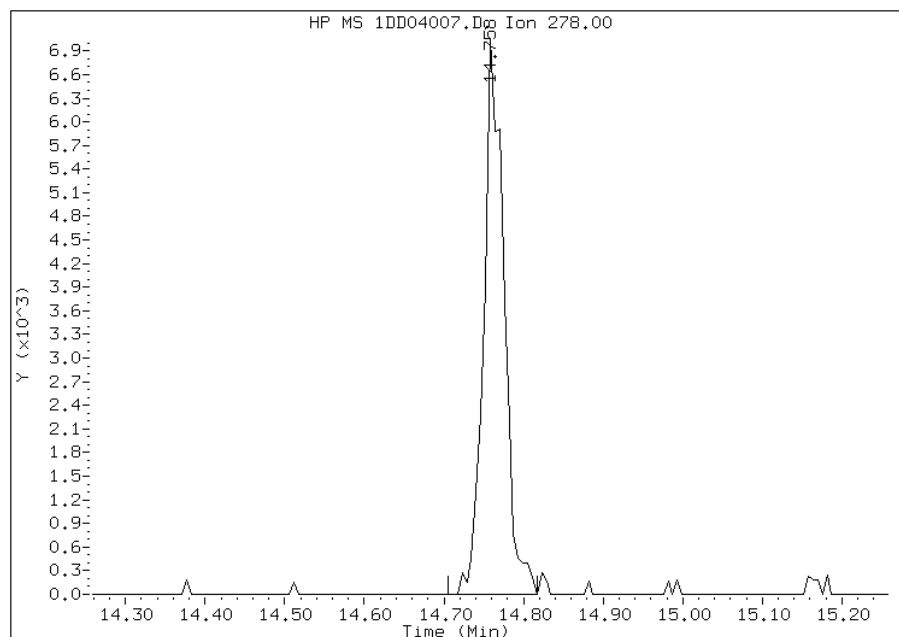
Processing Integration Results

RT: 14.76
Response: 12250
Amount: 0
Conc: 0



Manual Integration Results

RT: 14.76
Response: 12466
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04008.D
Lab Smp Id: IC-1531398
Inj Date : 04-APR-2013 14:11
Operator : SCC
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 13:49 Cal File: 1DD04007.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMSD.i
Compound Sublist: pah.sub

							AMOUNTS	
		QUANT	SIG				CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.089	6.089	(1.000)	2465772	40.0000	
*	6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1452284	40.0000	
*	9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2423707	40.0000	
\$	13 o-Terphenyl	230	9.332	9.332	(1.034)	33997	1.00000	0.93
*	17 Chrysene-d12	240	11.336	11.336	(1.000)	2420423	40.0000	
*	22 Perylene-d12	264	13.163	13.163	(1.000)	2501899	40.0000	
	2 Naphthalene	128	6.112	6.112	(1.004)	59216	1.00000	0.97
	3 2-Methylnaphthalene	142	6.817	6.817	(1.120)	37688	1.00000	0.95
	4 1-Methylnaphthalene	142	6.911	6.911	(1.135)	35645	1.00000	0.95
	5 Acenaphthylene	152	7.640	7.640	(0.983)	56340	1.00000	0.92
	7 Acenaphthene	154	7.793	7.793	(1.003)	35951	1.00000	0.95
	8 Fluorene	166	8.233	8.233	(1.060)	42826	1.00000	0.95
	10 Phenanthrene	178	9.038	9.038	(1.001)	63070	1.00000	0.94
	11 Anthracene	178	9.080	9.080	(1.006)	61222	1.00000	0.92
	12 Carbazole	167	9.221	9.221	(1.021)	55563	1.00000	0.95
	14 Fluoranthene	202	10.020	10.020	(1.110)	64445	1.00000	0.94
	15 Pyrene	202	10.208	10.208	(0.900)	69252	1.00000	0.95
	16 Benzo(a)anthracene	228	11.318	11.318	(0.998)	68675	1.00000	1.0
	18 Chrysene	228	11.359	11.359	(1.002)	63553	1.00000	0.97
	19 Benzo(b)fluoranthene	252	12.611	12.611	(0.958)	57946	1.00000	0.93
	20 Benzo(k)fluoranthene	252	12.646	12.646	(0.961)	64288	1.00000	0.98
	21 Benzo(a)pyrene	252	13.057	13.057	(0.992)	58354	1.00000	0.93
	23 Indeno(1,2,3-cd)pyrene	276	14.732	14.732	(1.119)	62840	1.00000	0.94(M)
	24 Dibenzo(a,h)anthracene	278	14.761	14.761	(1.121)	57541	1.00000	0.91(M)
	25 Benzo(g,h,i)perylene	276	15.167	15.167	(1.152)	62750	1.00000	0.97

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04008.D

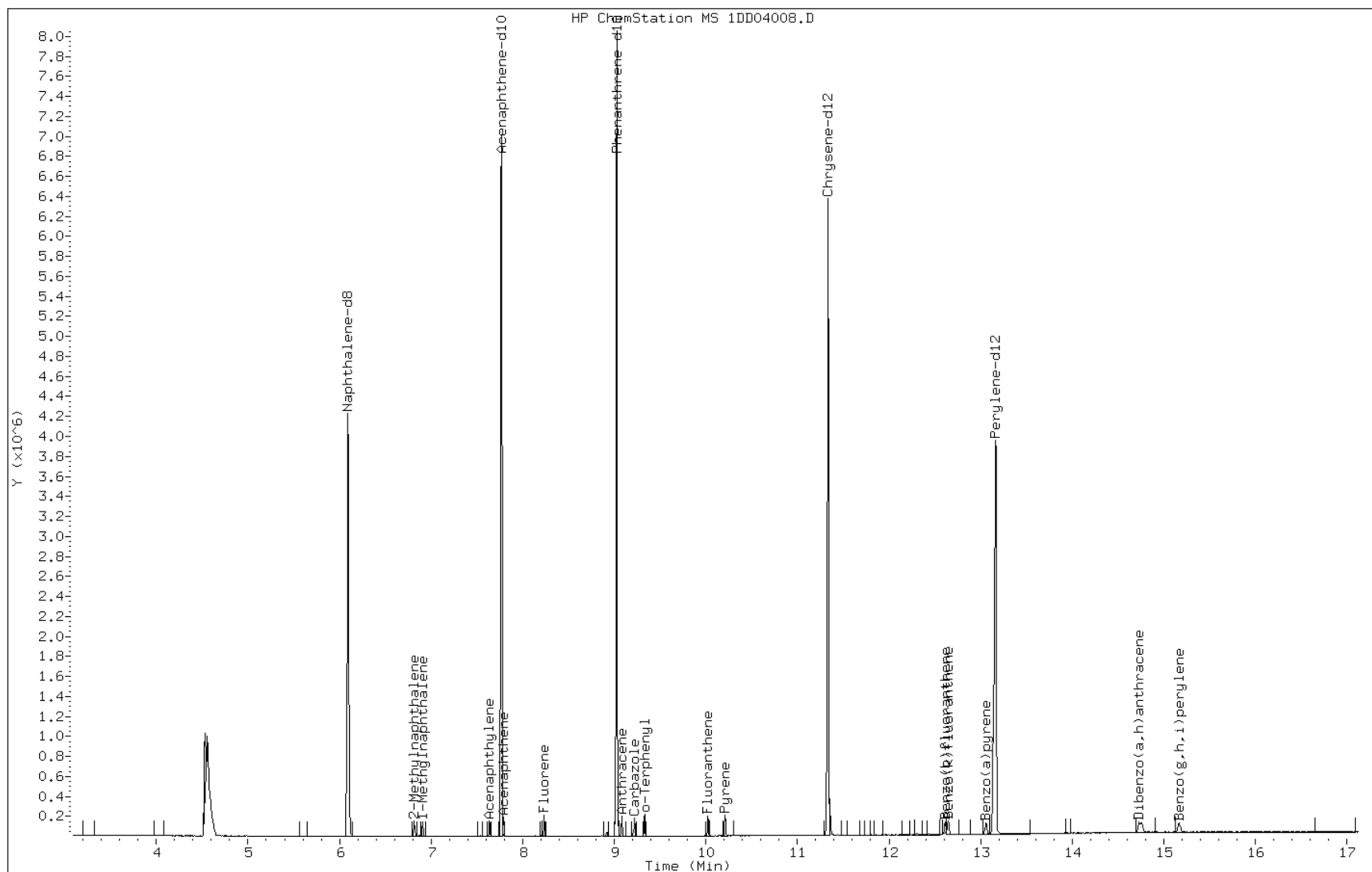
Date: 04-APR-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531398

Operator: SCC

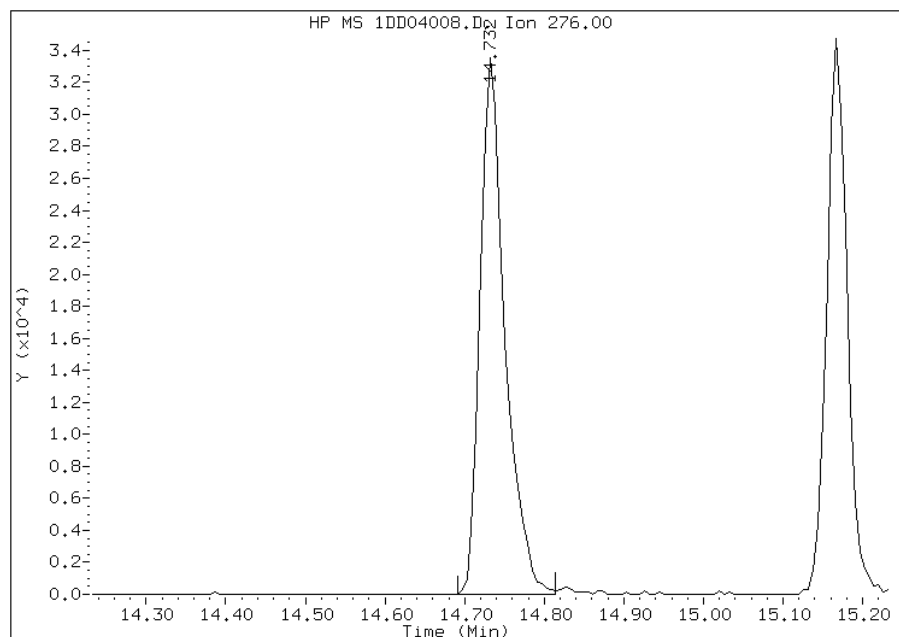


Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

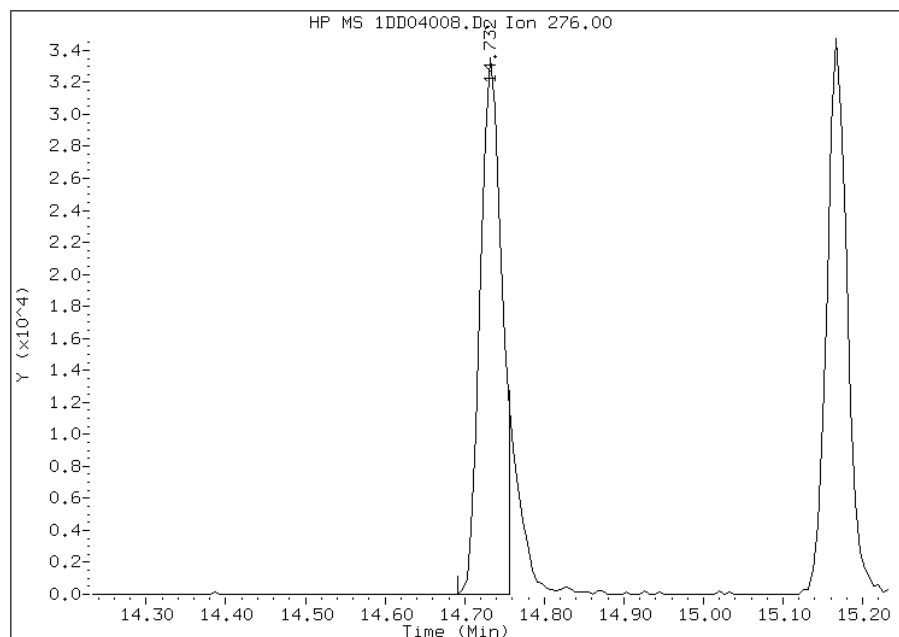
Processing Integration Results

RT: 14.73
Response: 72512
Amount: 1
Conc: 1



Manual Integration Results

RT: 14.73
Response: 62840
Amount: 1
Conc: 1



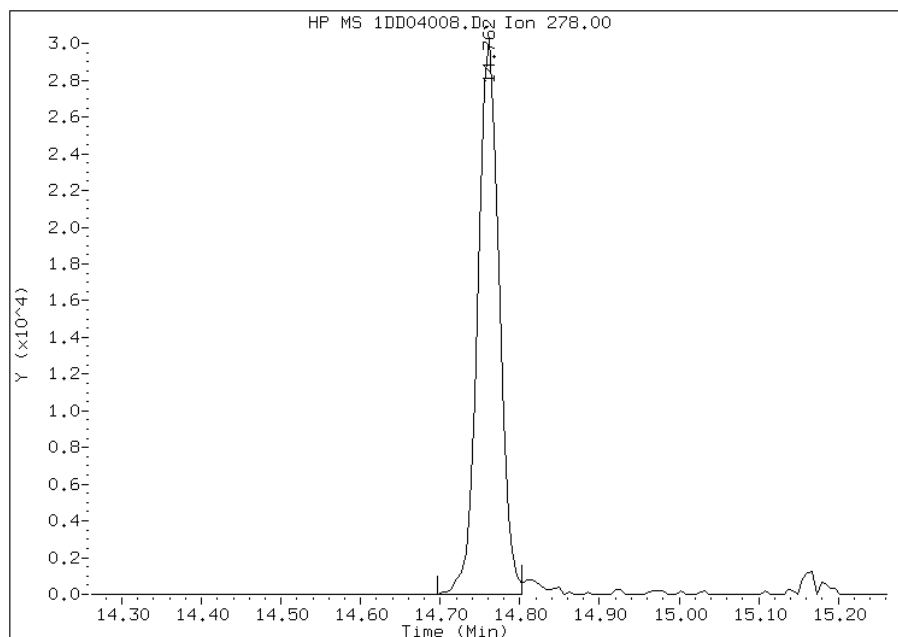
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

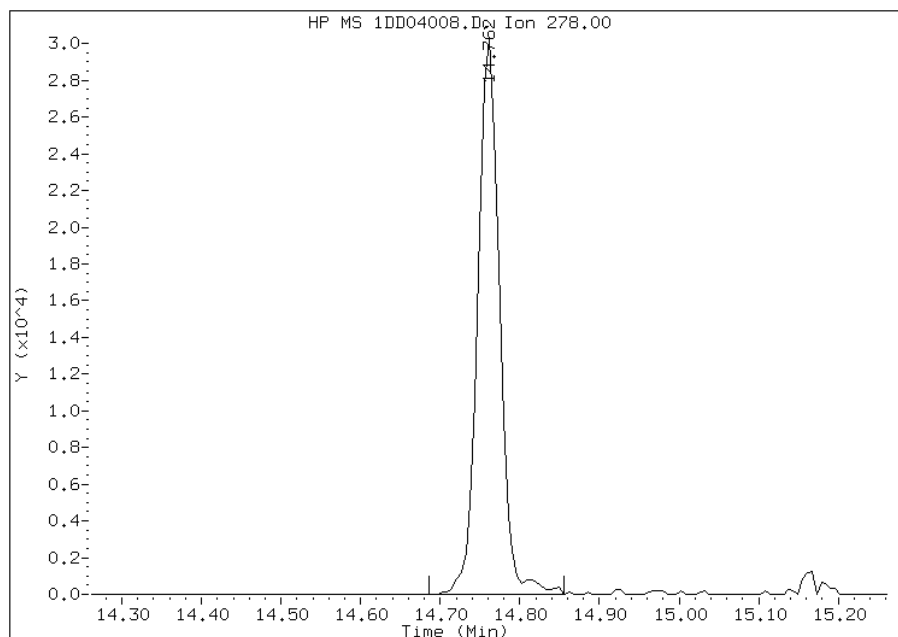
Processing Integration Results

RT: 14.76
Response: 56125
Amount: 1
Conc: 1



Manual Integration Results

RT: 14.76
Response: 57541
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04009.D
Lab Smp Id: IC-1531399
Inj Date : 04-APR-2013 14:34
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:11 Cal File: 1DD04008.D
Als bottle: 7 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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.093	6.093	(1.000)	2459101	40.0000		
* 6 Acenaphthene-d10	164		7.768	7.768	(1.000)	1451469	40.0000		
* 9 Phenanthrene-d10	188		9.025	9.025	(1.000)	2413975	40.0000		
\$ 13 o-Terphenyl	230		9.331	9.331	(1.034)	185249	5.00000		5.1
* 17 Chrysene-d12	240		11.340	11.340	(1.000)	2435324	40.0000		
* 22 Perylene-d12	264		13.167	13.167	(1.000)	2525708	40.0000		
2 Naphthalene	128		6.111	6.111	(1.003)	316194	5.00000		5.2
3 2-Methylnaphthalene	142		6.816	6.816	(1.119)	200332	5.00000		5.1
4 1-Methylnaphthalene	142		6.910	6.910	(1.134)	190230	5.00000		5.1
5 Acenaphthylene	152		7.639	7.639	(0.983)	314191	5.00000		5.1
7 Acenaphthene	154		7.791	7.791	(1.003)	193205	5.00000		5.1
8 Fluorene	166		8.232	8.232	(1.060)	223769	5.00000		5.0
10 Phenanthrene	178		9.043	9.043	(1.002)	338739	5.00000		5.1
11 Anthracene	178		9.084	9.084	(1.007)	335430	5.00000		5.1
12 Carbazole	167		9.219	9.219	(1.021)	295345	5.00000		5.1
14 Fluoranthene	202		10.024	10.024	(1.111)	348578	5.00000		5.1
15 Pyrene	202		10.212	10.212	(0.901)	374480	5.00000		5.1
16 Benzo(a)anthracene	228		11.323	11.323	(0.998)	339292	5.00000		5.1
18 Chrysene	228		11.358	11.358	(1.002)	329706	5.00000		5.0
19 Benzo(b)fluoranthene	252		12.615	12.615	(0.958)	323060	5.00000		5.1
20 Benzo(k)fluoranthene	252		12.650	12.650	(0.961)	328752	5.00000		4.9
21 Benzo(a)pyrene	252		13.062	13.062	(0.992)	318431	5.00000		5.0
23 Indeno(1,2,3-cd)pyrene	276		14.742	14.742	(1.120)	336963	5.00000		5.0(M)
24 Dibenzo(a,h)anthracene	278		14.766	14.766	(1.121)	316396	5.00000		5.0
25 Benzo(g,h,i)perylene	276		15.177	15.177	(1.153)	331324	5.00000		5.1

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04009.D

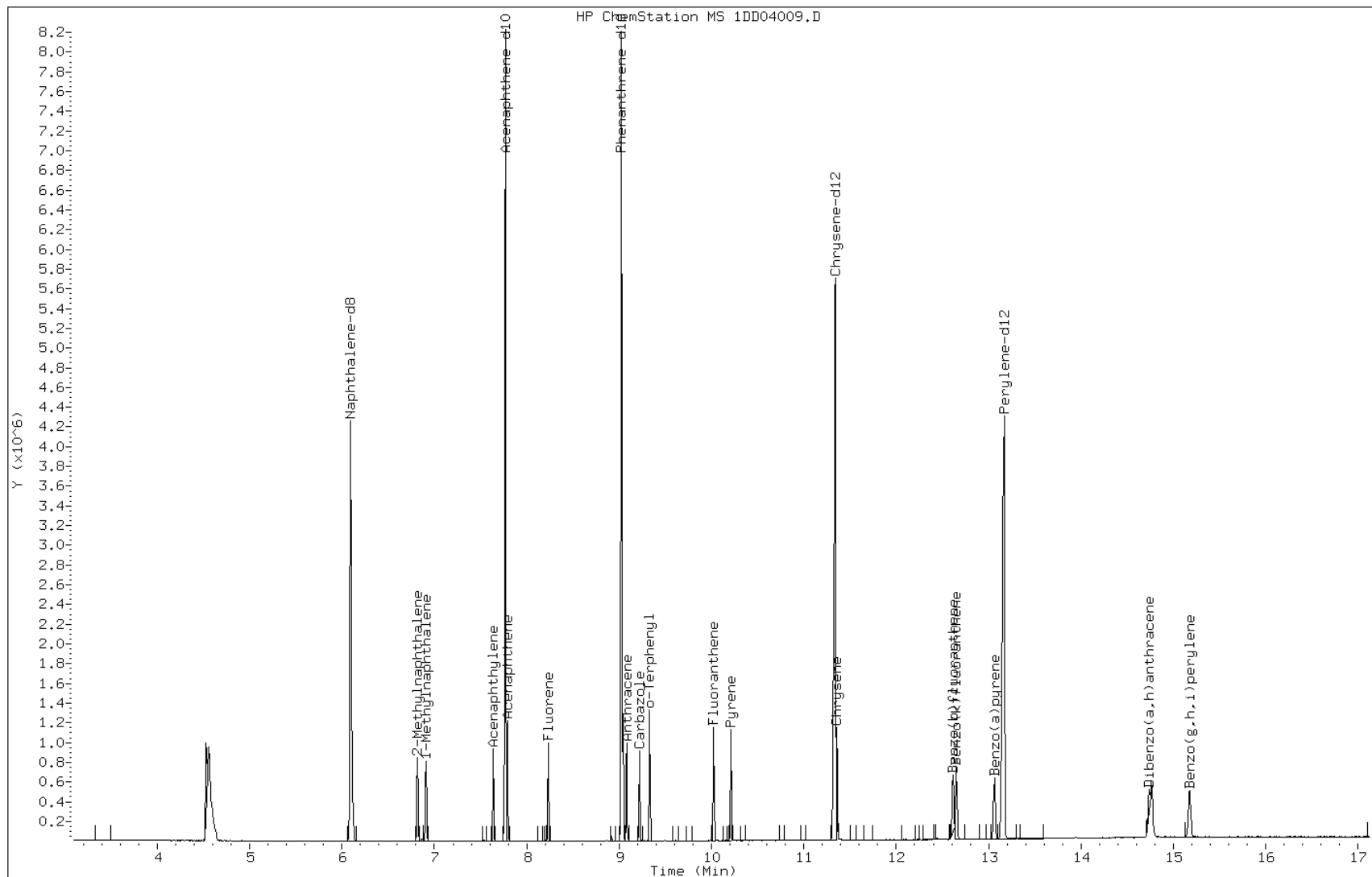
Date: 04-APR-2013 14:34

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531399

Operator: SCC

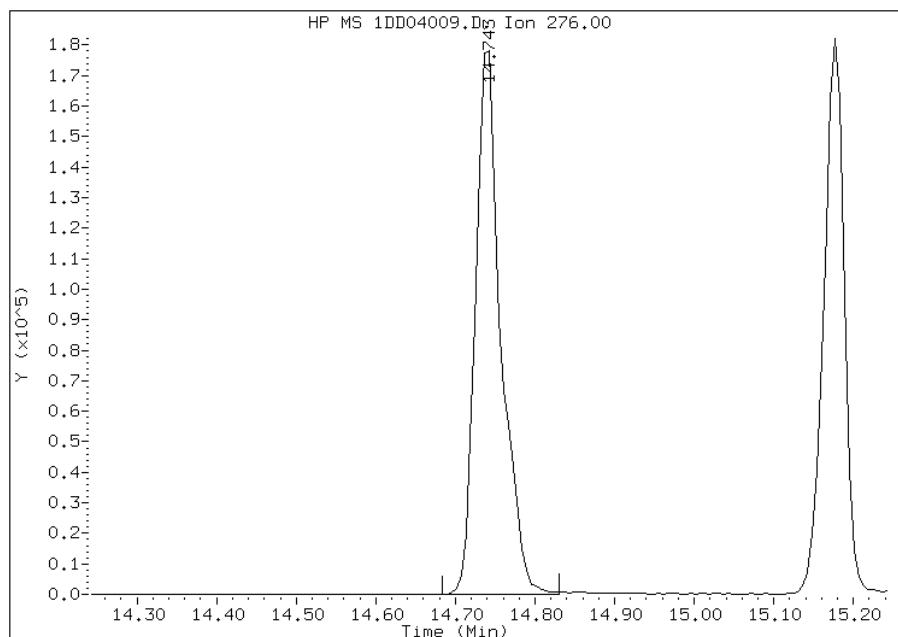


Manual Integration Report

Data File: 1DD04009.D
Inj. Date and Time: 04-APR-2013 14:34
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

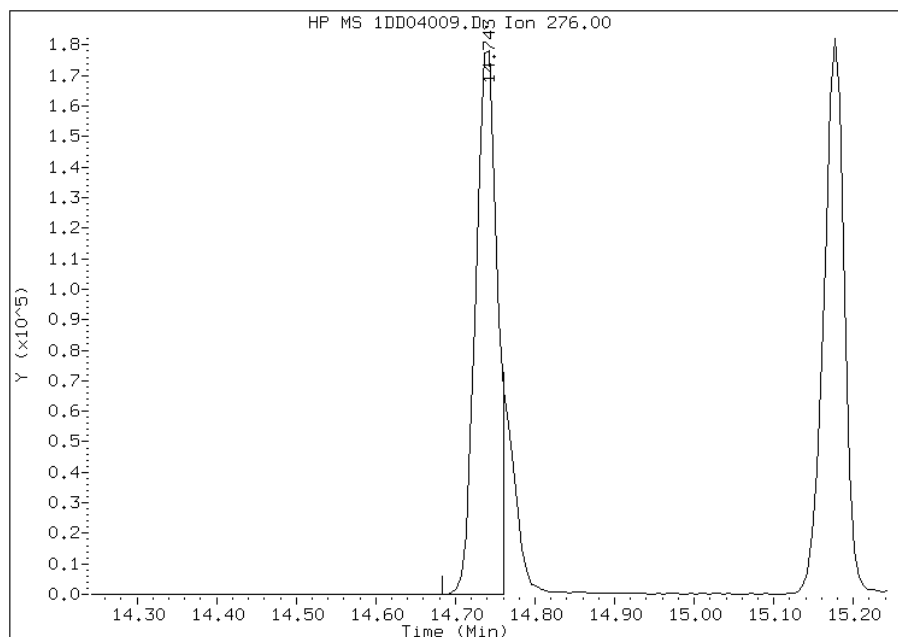
Processing Integration Results

RT: 14.74
Response: 395308
Amount: 5
Conc: 5



Manual Integration Results

RT: 14.74
Response: 336963
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04010.D
 Lab Smp Id: IC-1531400
 Inj Date : 04-APR-2013 14:57
 Operator : SCC
 Smp Info : IC-1531400
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04010.D
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 14:34 Cal File: 1DD04009.D
 Als bottle: 8 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Compound Sublist: pah.sub

							AMOUNTS	
		QUANT	SIG				CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.093	6.093	(1.000)	2548377	40.0000	
*	6 Acenaphthene-d10	164	7.767	7.767	(1.000)	1478460	40.0000	
*	9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2445573	40.0000	
\$	13 o-Terphenyl	230	9.330	9.330	(1.034)	360585	10.0000	9.8
*	17 Chrysene-d12	240	11.340	11.340	(1.000)	2472736	40.0000	
*	22 Perylene-d12	264	13.167	13.167	(1.000)	2524268	40.0000	
	2 Naphthalene	128	6.110	6.110	(1.003)	614716	10.0000	9.7
	3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	401151	10.0000	9.8
	4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	377068	10.0000	9.8
	5 Acenaphthylene	152	7.638	7.638	(0.983)	620756	10.0000	9.9
	7 Acenaphthene	154	7.791	7.791	(1.003)	375673	10.0000	9.7
	8 Fluorene	166	8.237	8.237	(1.061)	453336	10.0000	9.9
	10 Phenanthrene	178	9.042	9.042	(1.002)	657435	10.0000	9.8
	11 Anthracene	178	9.083	9.083	(1.007)	663091	10.0000	9.9
	12 Carbazole	167	9.224	9.224	(1.022)	584967	10.0000	9.9
	14 Fluoranthene	202	10.024	10.024	(1.111)	684049	10.0000	9.9
	15 Pyrene	202	10.212	10.212	(0.901)	738839	10.0000	9.9
	16 Benzo(a)anthracene	228	11.322	11.322	(0.998)	655565	10.0000	9.7
	18 Chrysene	228	11.363	11.363	(1.002)	641842	10.0000	9.6
	19 Benzo(b)fluoranthene	252	12.621	12.621	(0.959)	612455	10.0000	9.7
	20 Benzo(k)fluoranthene	252	12.656	12.656	(0.961)	667284	10.0000	10
	21 Benzo(a)pyrene	252	13.067	13.067	(0.992)	629684	10.0000	9.9
	23 Indeno(1,2,3-cd)pyrene	276	14.747	14.747	(1.120)	647015	10.0000	9.6(M)
	24 Dibenzo(a,h)anthracene	278	14.777	14.777	(1.122)	621340	10.0000	9.8
	25 Benzo(g,h,i)perylene	276	15.188	15.188	(1.153)	642692	10.0000	9.9

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04010.D

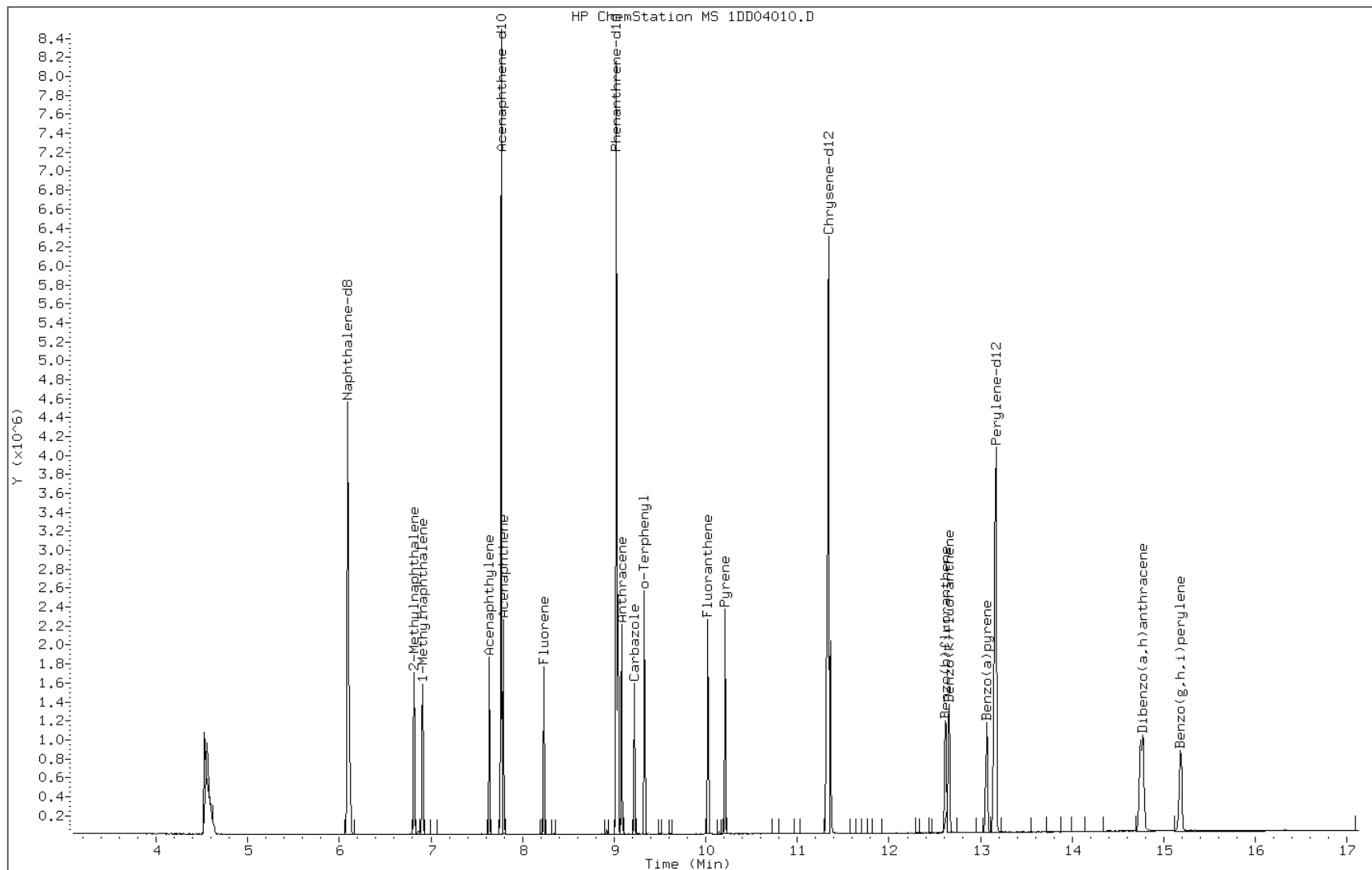
Date: 04-APR-2013 14:57

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531400

Operator: SCC

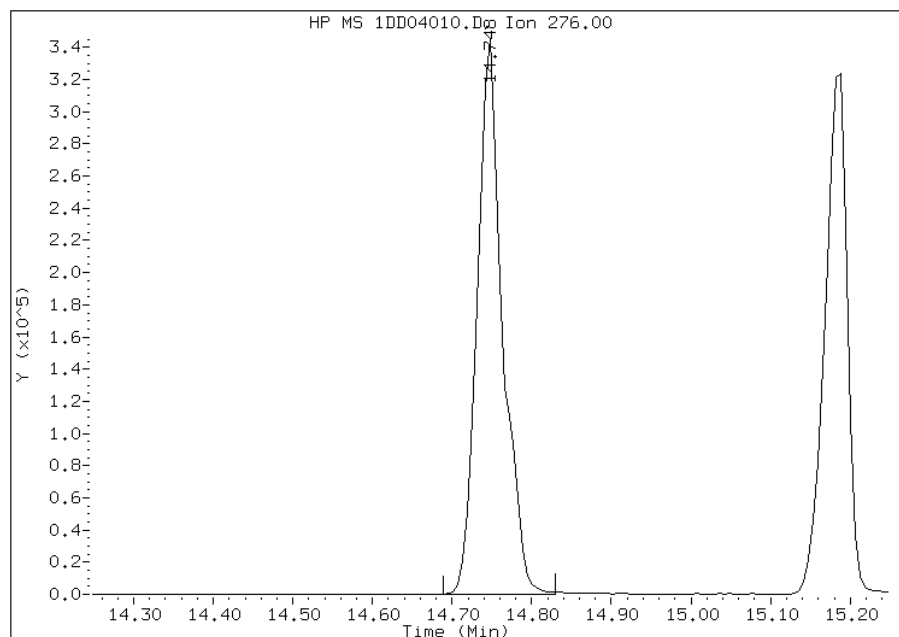


Manual Integration Report

Data File: 1DD04010.D
Inj. Date and Time: 04-APR-2013 14:57
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

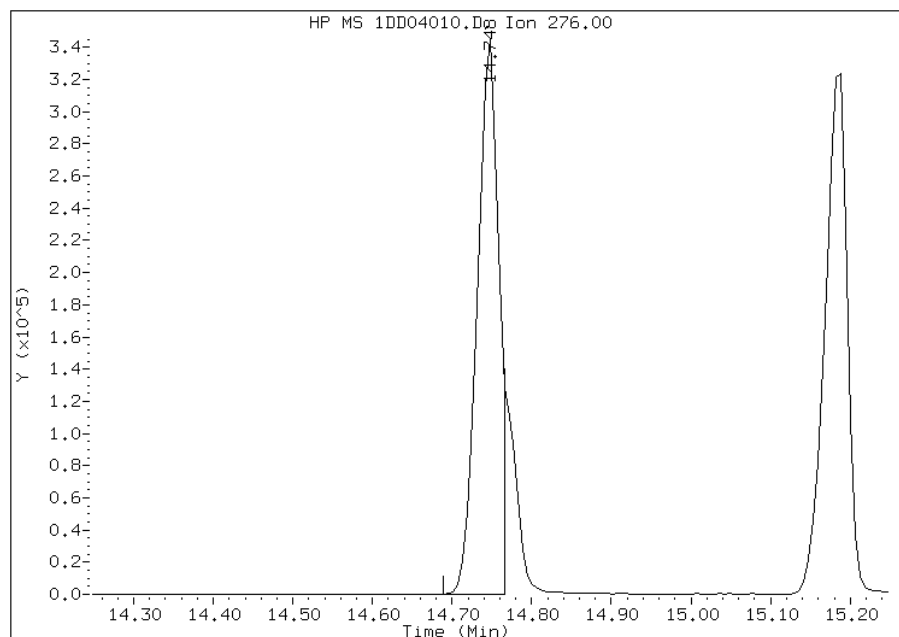
Processing Integration Results

RT: 14.75
Response: 759012
Amount: 10
Conc: 10



Manual Integration Results

RT: 14.75
Response: 647015
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04011.D
Lab Smp Id: ICIS-1531401
Inj Date : 04-APR-2013 15:19
Operator : SCC
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:57 Cal File: 1DD04010.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMSD.i
Compound Sublist: pah.sub

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.089	6.089	(1.000)	2475113	40.0000	
* 6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1466924	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2428512	40.0000	
\$ 13 o-Terphenyl	230	9.332	9.332	(1.034)	754512	20.0000	21
* 17 Chrysene-d12	240	11.342	11.342	(1.000)	2464730	40.0000	
* 22 Perylene-d12	264	13.169	13.169	(1.000)	2515643	40.0000	
2 Naphthalene	128	6.113	6.113	(1.004)	1235557	20.0000	20
3 2-Methylnaphthalene	142	6.818	6.818	(1.120)	806286	20.0000	20
4 1-Methylnaphthalene	142	6.912	6.912	(1.135)	757317	20.0000	20
5 Acenaphthylene	152	7.640	7.640	(0.983)	1275622	20.0000	20
7 Acenaphthene	154	7.793	7.793	(1.003)	757590	20.0000	20
8 Fluorene	166	8.234	8.234	(1.060)	918747	20.0000	20
10 Phenanthrene	178	9.044	9.044	(1.002)	1331875	20.0000	20
11 Anthracene	178	9.086	9.086	(1.007)	1360668	20.0000	20
12 Carbazole	167	9.227	9.227	(1.022)	1202897	20.0000	20
14 Fluoranthene	202	10.026	10.026	(1.111)	1392506	20.0000	20
15 Pyrene	202	10.214	10.214	(0.901)	1496990	20.0000	20
16 Benzo(a)anthracene	228	11.324	11.324	(0.998)	1332372	20.0000	20
18 Chrysene	228	11.365	11.365	(1.002)	1305118	20.0000	20
19 Benzo(b)fluoranthene	252	12.623	12.623	(0.959)	1270704	20.0000	20
20 Benzo(k)fluoranthene	252	12.664	12.664	(0.962)	1319239	20.0000	20
21 Benzo(a)pyrene	252	13.075	13.075	(0.993)	1276688	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.761	14.761	(1.121)	1333044	20.0000	20(M)
24 Dibenzo(a,h)anthracene	278	14.785	14.785	(1.123)	1273836	20.0000	20
25 Benzo(g,h,i)perylene	276	15.202	15.202	(1.154)	1285637	20.0000	20

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04011.D

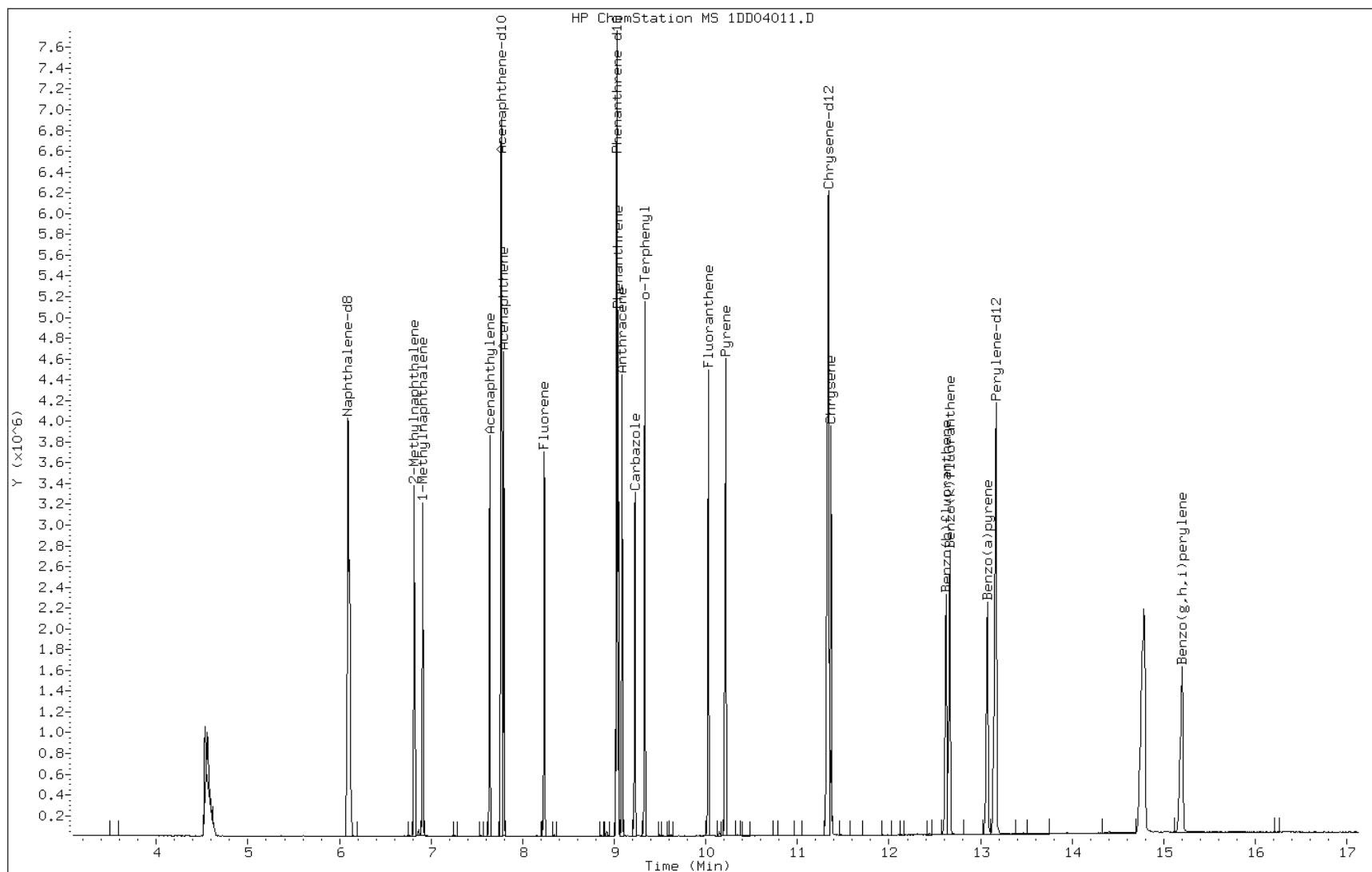
Date: 04-APR-2013 15:19

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS-1531401

Operator: SCC

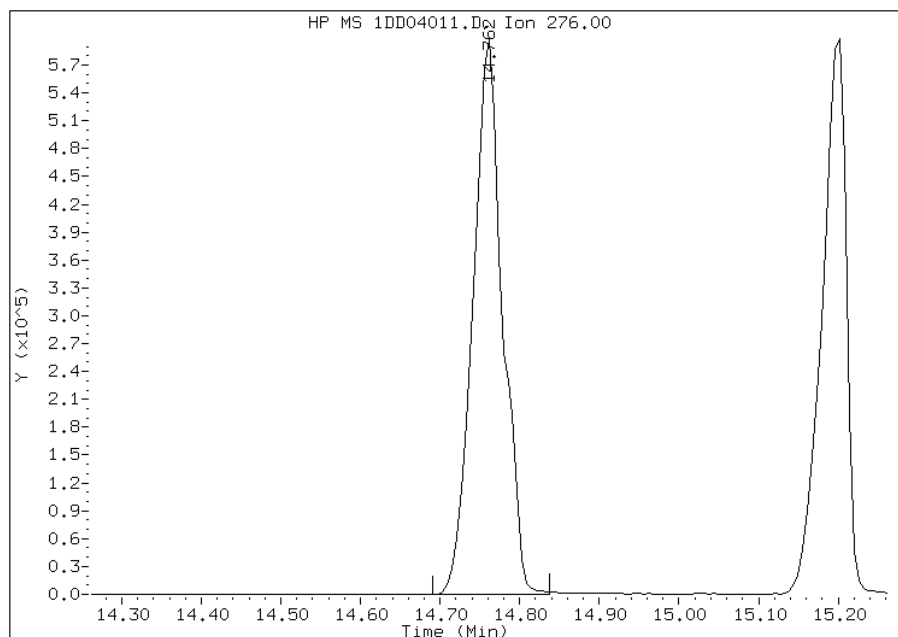


Manual Integration Report

Data File: 1DD04011.D
Inj. Date and Time: 04-APR-2013 15:19
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

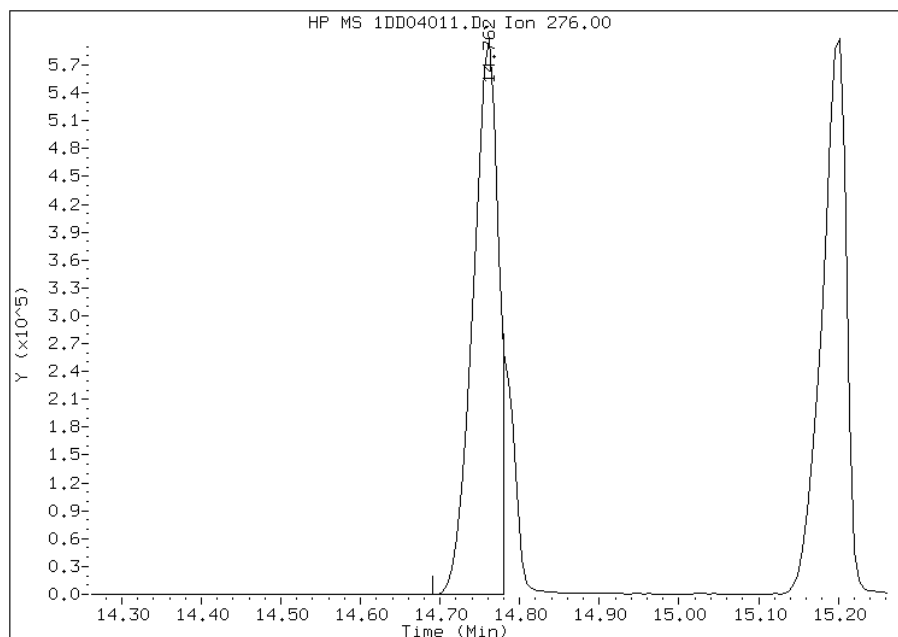
Processing Integration Results

RT: 14.76
Response: 1546230
Amount: 22
Conc: 22



Manual Integration Results

RT: 14.76
Response: 1333044
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04012.D
Lab Smp Id: IC-1531402
Inj Date : 04-APR-2013 15:42
Operator : SCC
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04012.D
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:19 Cal File: 1DD04011.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS		
		QUANT	SIG			CAL-AMT	ON-COL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.090	6.090	(1.000)	2316091	40.0000	
*	6 Acenaphthene-d10	164	7.765	7.765	(1.000)	1349878	40.0000	
*	9 Phenanthrene-d10	188	9.028	9.028	(1.000)	2295562	40.0000	
\$	13 o-Terphenyl	230	9.334	9.334	(1.034)	1074388	30.0000	31
*	17 Chrysene-d12	240	11.343	11.343	(1.000)	2345845	40.0000	
*	22 Perylene-d12	264	13.170	13.170	(1.000)	2343379	40.0000	
	2 Naphthalene	128	6.114	6.114	(1.004)	1777021	30.0000	31
	3 2-Methylnaphthalene	142	6.819	6.819	(1.120)	1162560	30.0000	31
	4 1-Methylnaphthalene	142	6.913	6.913	(1.135)	1096847	30.0000	31
	5 Acenaphthylene	152	7.642	7.642	(0.984)	1852399	30.0000	32
	7 Acenaphthene	154	7.794	7.794	(1.004)	1100779	30.0000	31
	8 Fluorene	166	8.235	8.235	(1.061)	1323451	30.0000	32
	10 Phenanthrene	178	9.046	9.046	(1.002)	1932978	30.0000	30
	11 Anthracene	178	9.087	9.087	(1.007)	1981347	30.0000	32
	12 Carbazole	167	9.228	9.228	(1.022)	1717245	30.0000	31
	14 Fluoranthene	202	10.027	10.027	(1.111)	2025512	30.0000	31
	15 Pyrene	202	10.215	10.215	(0.901)	2181708	30.0000	31
	16 Benzo(a)anthracene	228	11.326	11.326	(0.998)	1914899	30.0000	30
	18 Chrysene	228	11.367	11.367	(1.002)	1900592	30.0000	30
	19 Benzo(b)fluoranthene	252	12.630	12.630	(0.959)	1811151	30.0000	31
	20 Benzo(k)fluoranthene	252	12.671	12.671	(0.962)	1910468	30.0000	31
	21 Benzo(a)pyrene	252	13.082	13.082	(0.993)	1854979	30.0000	32
	23 Indeno(1,2,3-cd)pyrene	276	14.769	14.769	(1.121)	2011375	30.0000	32(M)
	24 Dibenzo(a,h)anthracene	278	14.798	14.798	(1.124)	1840819	30.0000	31
	25 Benzo(g,h,i)perylene	276	15.209	15.209	(1.155)	1860821	30.0000	31

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04012.D

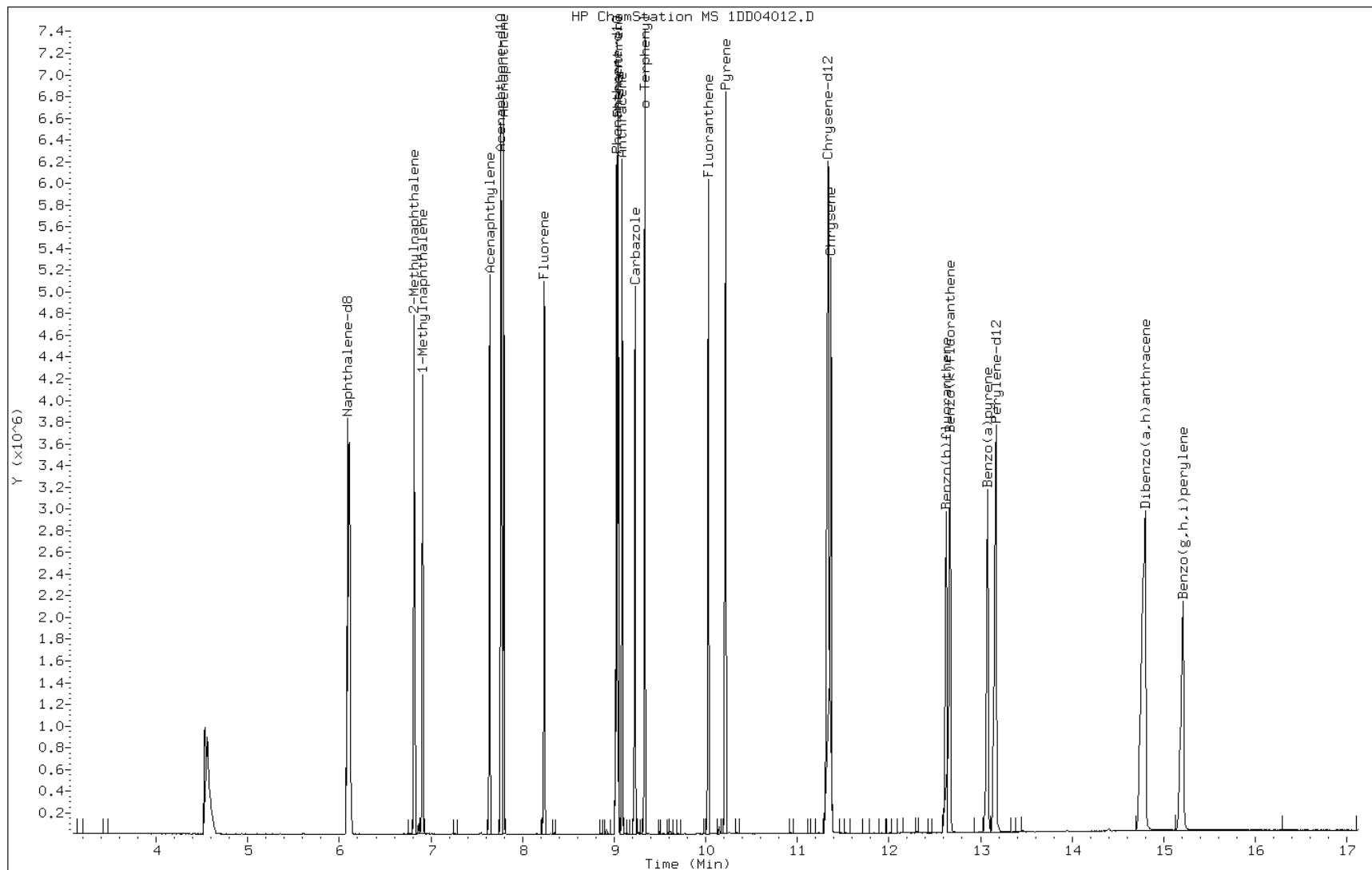
Date: 04-APR-2013 15:42

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531402

Operator: SCC

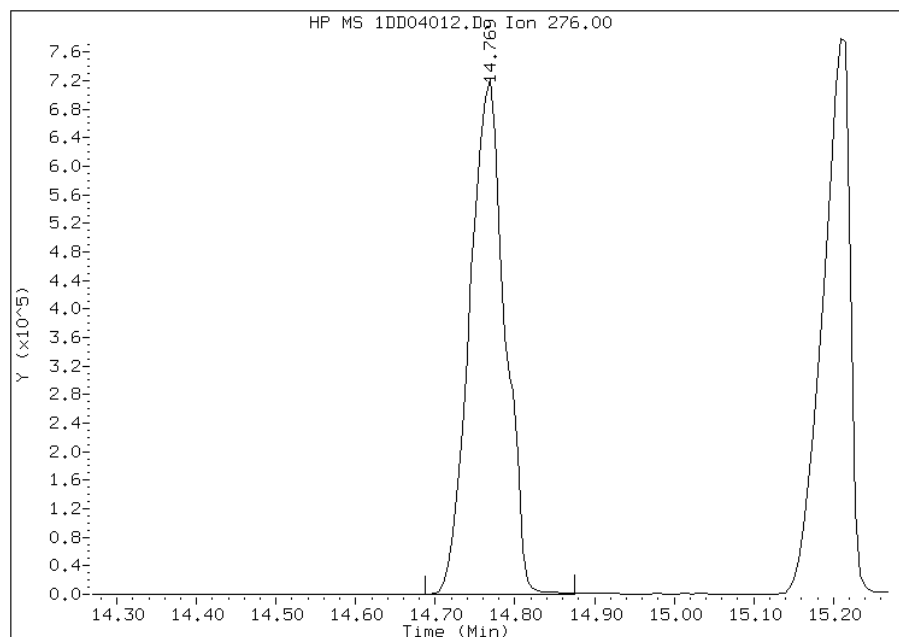


Manual Integration Report

Data File: 1DD04012.D
Inj. Date and Time: 04-APR-2013 15:42
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

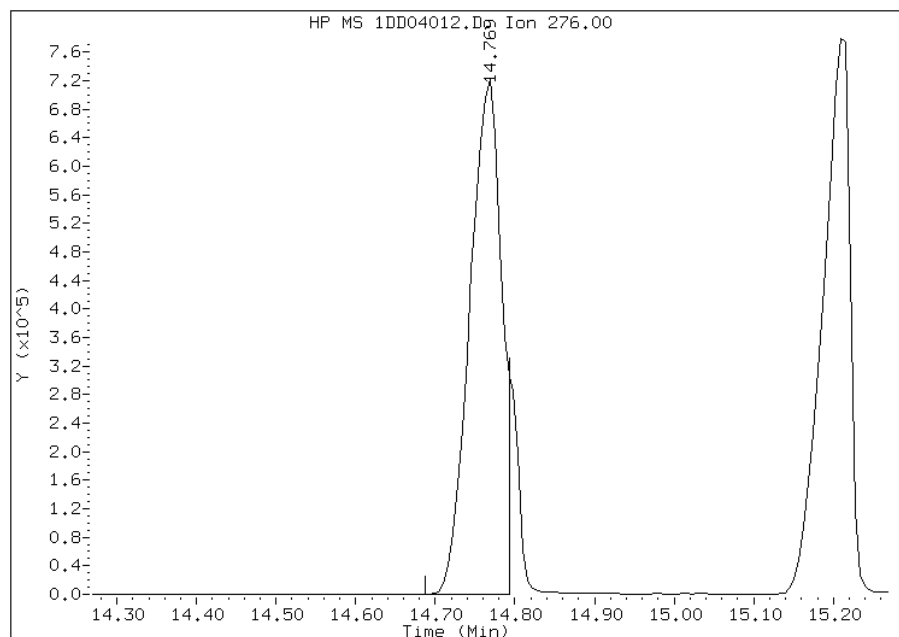
Processing Integration Results

RT: 14.77
Response: 2221522
Amount: 32
Conc: 32



Manual Integration Results

RT: 14.77
Response: 2011375
Amount: 32
Conc: 32



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04013.D
Lab Smp Id: IC-1531403
Inj Date : 04-APR-2013 16:04
Operator : SCC
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:42 Cal File: 1DD04012.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMSD.i
Compound Sublist: pah.sub

Compounds	QUANT SIG MASS						AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Naphthalene-d8	136	6.090	6.090	(1.000)	2444753	40.0000		
* 6 Acenaphthene-d10	164	7.770	7.770	(1.000)	1439391	40.0000		
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2373597	40.0000		
\$ 13 o-Terphenyl	230	9.339	9.339	(1.034)	2031596	50.0000		57(A)
* 17 Chrysene-d12	240	11.348	11.348	(1.000)	2479223	40.0000		
* 22 Perylene-d12	264	13.175	13.175	(1.000)	2461140	40.0000		
2 Naphthalene	128	6.113	6.113	(1.004)	3211548	50.0000		53(A)
3 2-Methylnaphthalene	142	6.818	6.818	(1.120)	2134320	50.0000		54(A)
4 1-Methylnaphthalene	142	6.912	6.912	(1.135)	1999874	50.0000		54(A)
5 Acenaphthylene	152	7.641	7.641	(0.983)	3396591	50.0000		56(A)
7 Acenaphthene	154	7.799	7.799	(1.004)	2018481	50.0000		54(A)
8 Fluorene	166	8.240	8.240	(1.060)	2393163	50.0000		54(A)
10 Phenanthrene	178	9.051	9.051	(1.003)	3534794	50.0000		54(A)
11 Anthracene	178	9.092	9.092	(1.007)	3590722	50.0000		55(A)
12 Carbazole	167	9.233	9.233	(1.023)	3137679	50.0000		55(A)
14 Fluoranthene	202	10.032	10.032	(1.111)	3681257	50.0000		55(A)
15 Pyrene	202	10.220	10.220	(0.901)	3965627	50.0000		53(A)
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	3388838	50.0000		50(A)
18 Chrysene	228	11.377	11.377	(1.003)	3512644	50.0000		52(A)
19 Benzo(b)fluoranthene	252	12.635	12.635	(0.959)	3290902	50.0000		54(A)
20 Benzo(k)fluoranthene	252	12.682	12.682	(0.963)	3421834	50.0000		53(A)
21 Benzo(a)pyrene	252	13.093	13.093	(0.994)	3327888	50.0000		54(A)
23 Indeno(1,2,3-cd)pyrene	276	14.785	14.785	(1.122)	3754268	50.0000		57(AM)
24 Dibenzo(a,h)anthracene	278	14.826	14.826	(1.125)	3350541	50.0000		54(A)
25 Benzo(g,h,i)perylene	276	15.238	15.238	(1.157)	3284166	50.0000		52(A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DD04013.D

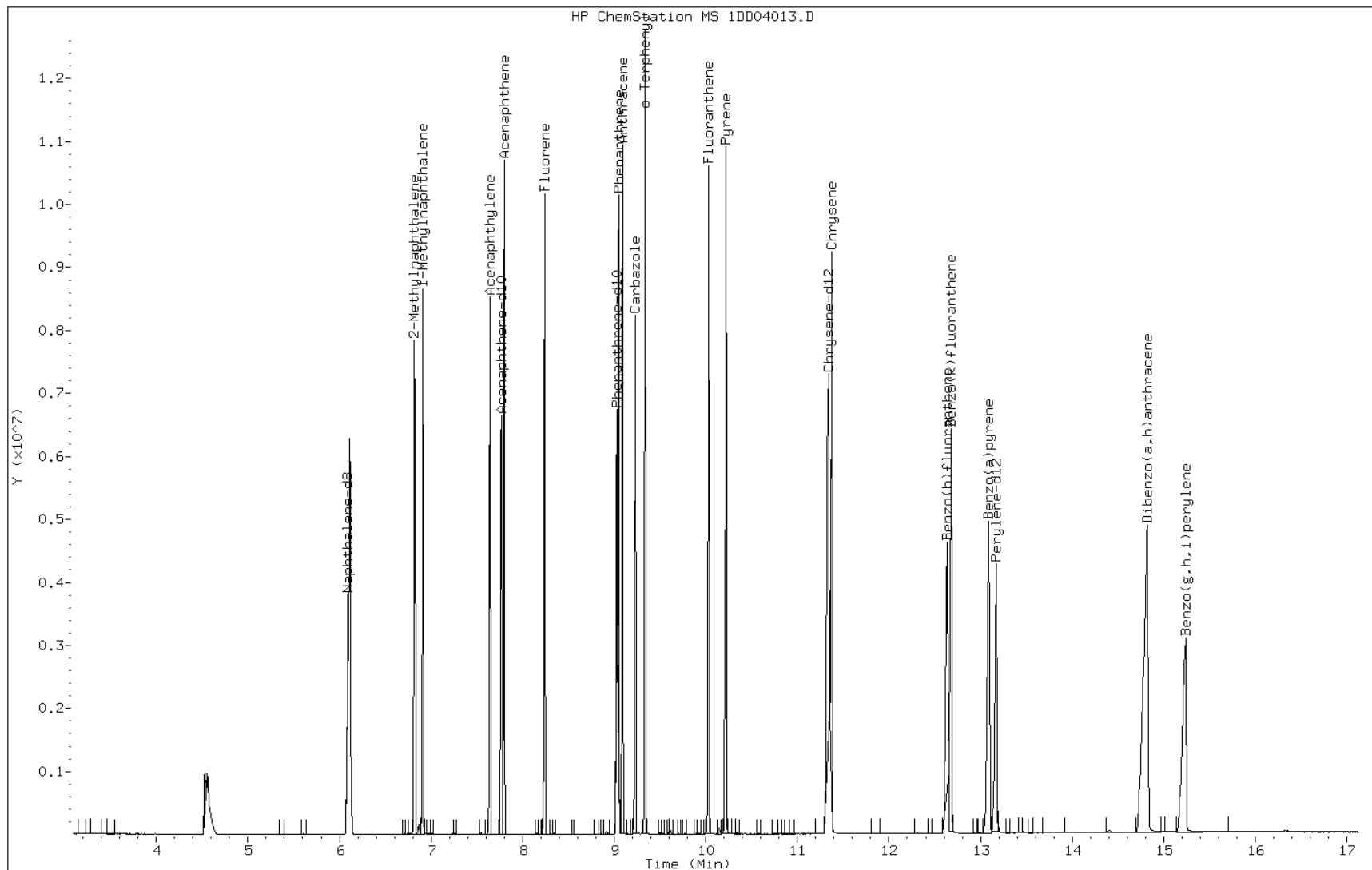
Date: 04-APR-2013 16:04

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531403

Operator: SCC

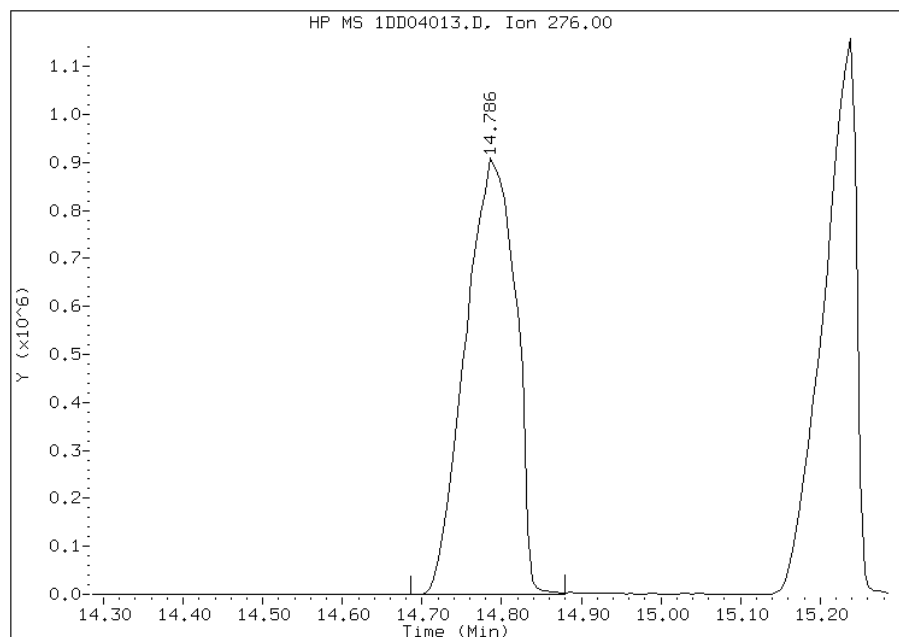


Manual Integration Report

Data File: 1DD04013.D
Inj. Date and Time: 04-APR-2013 16:04
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

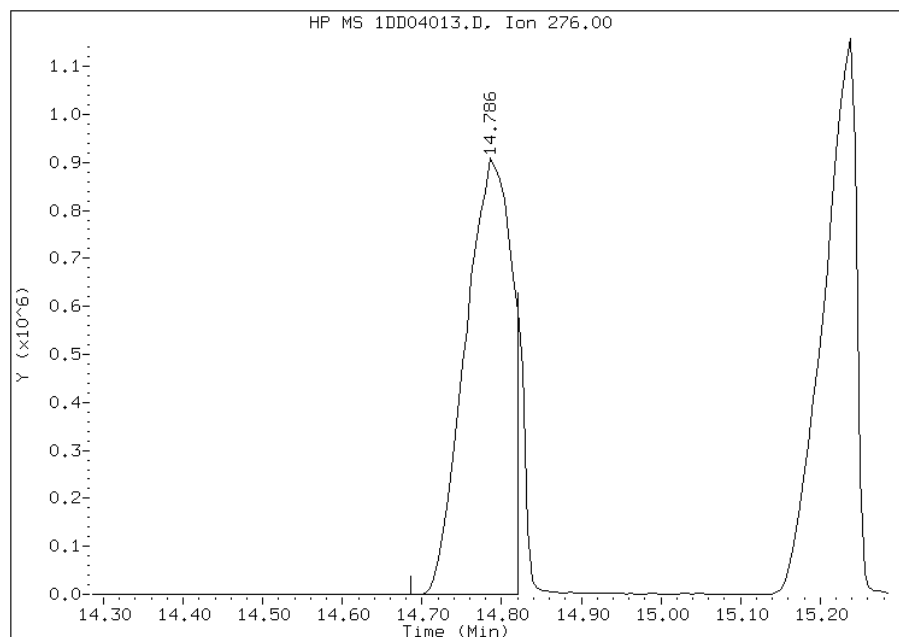
Processing Integration Results

RT: 14.79
Response: 3993028
Amount: 54
Conc: 54



Manual Integration Results

RT: 14.79
Response: 3754268
Amount: 57
Conc: 57



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Lab Sample ID: ICV 660-136269/12 Calibration Date: 04/09/2013 13:51
 Instrument ID: BSMA5973 Calib Start Date: 04/09/2013 10:31
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/09/2013 12:03
 Lab File ID: 1AD09012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Qua	1.164	1.049	0.0000	19200	20000	-3.8	35.0
2-Methylnaphthalene	Qua	0.6769	0.6602	0.0000	21200	20000	6.1	35.0
1-Methylnaphthalene	Qua	0.7577	0.7532	0.0000	22400	20000	12.1	35.0
Acenaphthylene	Qua	2.305	2.059	0.0000	17600	20000	-12.1	35.0
Acenaphthene	Qua	1.341	1.135	0.0000	18000	20000	-10.2	35.0
Fluorene	Qua	1.676	1.477	0.0000	18300	20000	-8.3	35.0
Phenanthrene	Qua	1.294	1.095	0.0000	18000	20000	-10.1	35.0
Anthracene	Qua	1.308	1.177	0.0000	18600	20000	-6.8	35.0
Carbazole	Qua	1.209	0.9261	0.0000	15300	20000	-23.5	35.0
Fluoranthene	Qua	1.464	1.396	0.0000	19600	20000	-1.8	35.0
Pyrene	Ave	1.541	1.486	0.0000	19300	20000	-3.6	35.0
Benzo[a]anthracene	Ave	1.334	1.292	0.0000	19400	20000	-3.1	35.0
Chrysene	Ave	1.361	1.219	0.0000	17900	20000	-10.4	35.0
Benzo[b]fluoranthene	Ave	1.213	1.207	0.0000	19900	20000	-0.4	35.0
Benzo[k]fluoranthene	Ave	1.347	1.267	0.0000	18800	20000	-5.9	35.0
Benzo[a]pyrene	Lin	1.157	1.092	0.0000	18500	20000	-7.3	35.0
Indeno[1,2,3-cd]pyrene	Lin	1.023	0.9921	0.0000	17600	20000	-12.1	35.0
Dibenz(a,h)anthracene	Ave	1.011	1.127	0.0000	22300	20000	11.4	35.0
Benzo[g,h,i]perylene	Ave	1.089	1.068	0.0000	19600	20000	-1.9	35.0
o-Terphenyl	Qua	0.7281	0.6328	0.0000	18100	20000	-9.4	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09012.D
Lab Smp Id: ICV-1448440
Inj Date : 09-APR-2013 13:51
Operator : SCC
Smp Info : ICV-1448440
Misc Info : RE-RUN
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1A-bFASTPAHi-m.m
Meth Date : 09-Apr-2013 14:20 cantins
Cal Date : 09-APR-2013 12:03
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Inst ID: BSMA5973.i

Quant Type: ISTD

Cal File: 1AD09009.D

QC Sample: LCS

Compound Sublist: pah.sub

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	FINAL
							(ug/ml)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8		136	2.592	2.591 (1.000)		1542771	40.0000	
* 6 Acenaphthene-d10		164	3.628	3.622 (1.000)		886874	40.0000	
* 10 Phenanthrene-d10		188	4.579	4.573 (1.000)		1631736	40.0000	
\$ 14 o-Terphenyl		230	4.883	4.877 (1.066)		516312	18.1166	18.1166
* 18 Chrysene-d12		240	6.603	6.597 (1.000)		1541115	40.0000	
* 23 Perylene-d12		264	7.692	7.676 (1.000)		1781032	40.0000	
2 Naphthalene		128	2.602	2.602 (1.004)		808850	19.2380	19.2380
3 2-Methylnaphthalene		141	3.008	3.008 (1.161)		509252	21.2238	21.2238
4 1-Methylnaphthalene		142	3.062	3.062 (1.181)		580975	22.4261	22.4260
5 Acenaphthylene		152	3.537	3.532 (0.975)		913033	17.5706	17.5705
7 Acenaphthene		154	3.644	3.638 (1.004)		503207	17.9564	17.9564
9 Fluorene		166	3.959	3.953 (1.091)		655022	18.3313	18.3312
11 Phenanthrene		178	4.595	4.589 (1.003)		893498	17.9753	17.9753
12 Anthracene		178	4.627	4.626 (1.010)		960125	18.6315	18.6314
13 Carbazole		167	4.755	4.755 (1.038)		755565	15.2994	15.2993
15 Fluoranthene		202	5.460	5.454 (1.192)		1138837	19.6352	19.6352
16 Pyrene		202	5.625	5.620 (0.852)		1145036	19.2813	19.2813

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	6.587	6.581	(0.998)	995754	19.3701	19.3700
19 Chrysene	228	6.619	6.613	(1.002)	939490	17.9191	17.9191
20 Benzo(b)fluoranthene	252	7.409	7.404	(0.963)	1075235	19.9103	19.9102
21 Benzo(k)fluoranthene	252	7.431	7.425	(0.966)	1128299	18.8114	18.8113
22 Benzo(a)pyrene	252	7.639	7.628	(0.993)	972005	18.5371	18.5371
24 Indeno(1,2,3-cd)pyrene	276	8.467	8.451	(1.101)	883515	17.5805	17.5804
25 Dibenzo(a,h)anthracene	278	8.499	8.477	(1.105)	1003330	22.2828	22.2828
26 Benzo(g,h,i)perylene	276	8.691	8.670	(1.130)	951427	19.6134	19.6134

Data File: 1AD09012.D

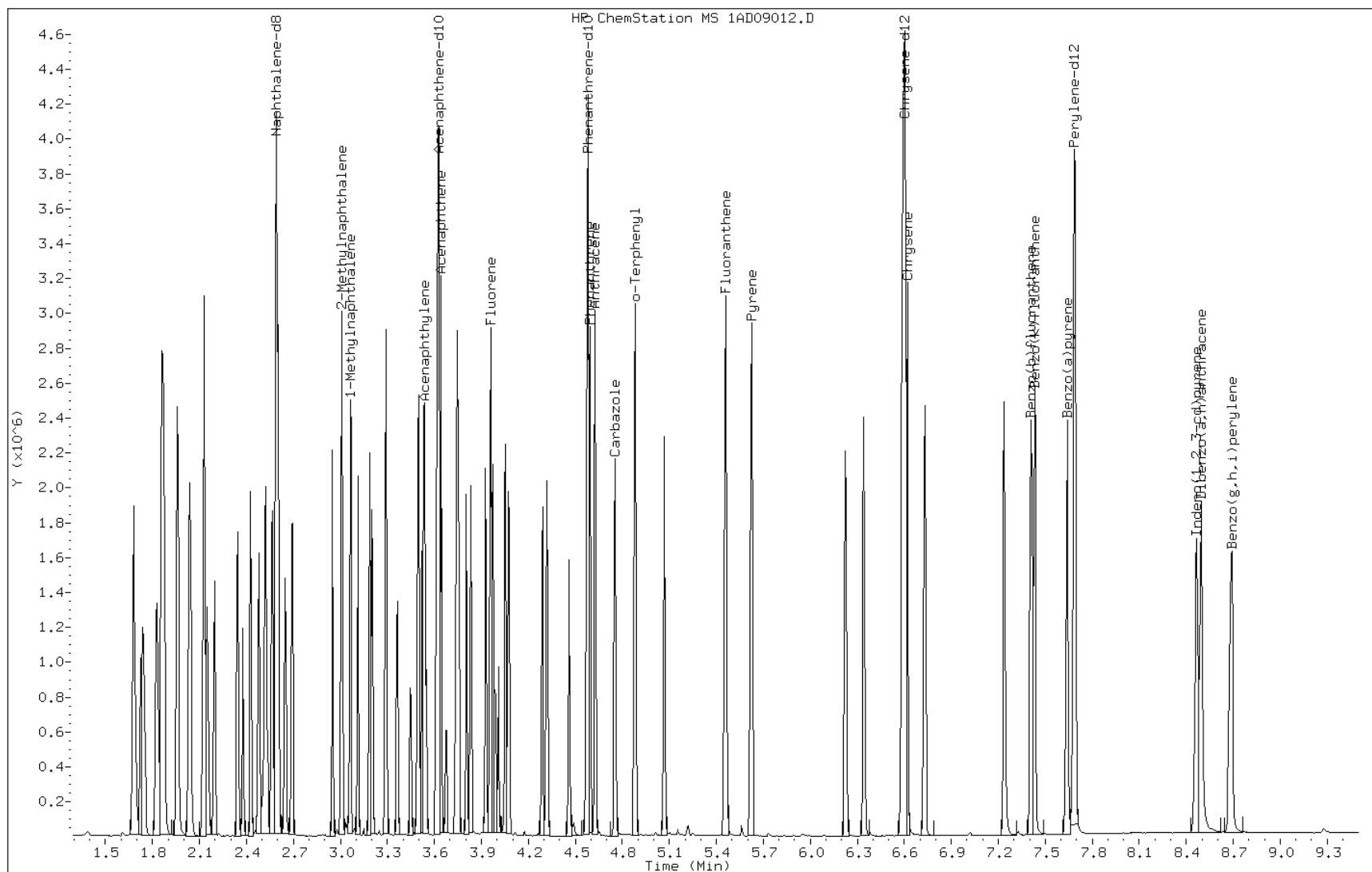
Date: 09-APR-2013 13:51

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.: 680-88913-1
 SDG No.: 680088913-1
 Lab Sample ID: CCVIS 660-136318/3 Calibration Date: 04/10/2013 12:41
 Instrument ID: BSMA5973 Calib Start Date: 04/09/2013 10:31
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/09/2013 12:03
 Lab File ID: 1AD10003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Qua	1.164	1.052	0.0000	19300	20000	-3.3	20.0
2-Methylnaphthalene	Qua	0.6769	0.6014	0.0000	18700	20000	-6.5	20.0
1-Methylnaphthalene	Qua	0.7577	0.6687	0.0000	18900	20000	-5.4	20.0
Acenaphthylene	Qua	2.305	2.227	0.0000	19600	20000	-2.2	20.0
Acenaphthene	Qua	1.341	1.200	0.0000	19500	20000	-2.5	20.0
Fluorene	Qua	1.676	1.555	0.0000	19700	20000	-1.6	20.0
Phenanthrene	Qua	1.294	1.160	0.0000	19500	20000	-2.7	20.0
Anthracene	Qua	1.308	1.222	0.0000	19600	20000	-1.9	20.0
Carbazole	Qua	1.209	1.140	0.0000	19900	20000	-0.7	20.0
Fluoranthene	Qua	1.464	1.381	0.0000	19400	20000	-3.1	20.0
Pyrene	Ave	1.541	1.551	0.0000	20100	20000	0.7	20.0
Benzo[a]anthracene	Ave	1.334	1.281	0.0000	19200	20000	-4.0	20.0
Chrysene	Ave	1.361	1.265	0.0000	18600	20000	-7.1	20.0
Benzo[b]fluoranthene	Ave	1.213	1.315	0.0000	21700	20000	8.5	20.0
Benzo[k]fluoranthene	Ave	1.347	1.314	0.0000	19500	20000	-2.5	20.0
Benzo[a]pyrene	Lin	1.157	1.259	0.0000	21500	20000	7.6	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.023	1.141	0.0000	20200	20000	0.8	20.0
Dibenz(a,h)anthracene	Ave	1.011	1.081	0.0000	21400	20000	6.9	20.0
Benzo[g,h,i]perylene	Ave	1.089	1.118	0.0000	20500	20000	2.6	20.0
o-Terphenyl	Qua	0.7281	0.6610	0.0000	19200	20000	-4.1	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 10-APR-2013 12:41
Operator : SCC
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10003.D
Meth Date : 10-Apr-2013 12:54 cantins Quant Type: ISTD
Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
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	2.584	2.584	(1.000)	1583411	40.0000	
*	6 Acenaphthene-d10	164	3.615	3.615	(1.000)	832961	40.0000	
*	10 Phenanthrene-d10	188	4.571	4.571	(1.000)	1461417	40.0000	
\$	14 o-Terphenyl	230	4.870	4.870	(1.065)	482994	20.0000	19.1758
*	18 Chrysene-d12	240	6.584	6.584	(1.000)	1381890	40.0000	
*	23 Perylene-d12	264	7.663	7.663	(1.000)	1422554	40.0000	
	2 Naphthalene	128	2.600	2.600	(1.006)	833207	20.0000	19.3353
	3 2-Methylnaphthalene	141	3.000	3.000	(1.161)	476134	20.0000	18.7024
	4 1-Methylnaphthalene	142	3.059	3.059	(1.184)	529403	20.0000	18.9135
	5 Acenaphthylene	152	3.524	3.524	(0.975)	927332	20.0000	19.5564
	7 Acenaphthene	154	3.636	3.636	(1.006)	499673	20.0000	19.5068
	9 Fluorene	166	3.951	3.951	(1.093)	647759	20.0000	19.6880
	11 Phenanthrene	178	4.581	4.581	(1.002)	847544	20.0000	19.4525
	12 Anthracene	178	4.619	4.619	(1.011)	892841	20.0000	19.6270
	13 Carbazole	167	4.747	4.747	(1.039)	833119	20.0000	19.8517
	15 Fluoranthene	202	5.447	5.447	(1.192)	1008907	20.0000	19.3715
	16 Pyrene	202	5.612	5.612	(0.852)	1071930	20.0000	20.1300
	17 Benzo(a)anthracene	228	6.574	6.574	(0.998)	885389	20.0000	19.2076
	19 Chrysene	228	6.606	6.606	(1.003)	873940	20.0000	18.5894
	20 Benzo(b)fluoranthene	252	7.391	7.391	(0.964)	935590	20.0000	21.6901
	21 Benzo(k)fluoranthene	252	7.412	7.412	(0.967)	934646	20.0000	19.5095
	22 Benzo(a)pyrene	252	7.615	7.615	(0.994)	895373	20.0000	21.5202
	24 Indeno(1,2,3-cd)pyrene	276	8.427	8.427	(1.100)	811444	20.0000	20.1552
	25 Dibenzo(a,h)anthracene	278	8.459	8.459	(1.104)	768781	20.0000	21.3762
	26 Benzo(g,h,i)perylene	276	8.651	8.651	(1.129)	794869	20.0000	20.5152

Data File: 1AD10003.D

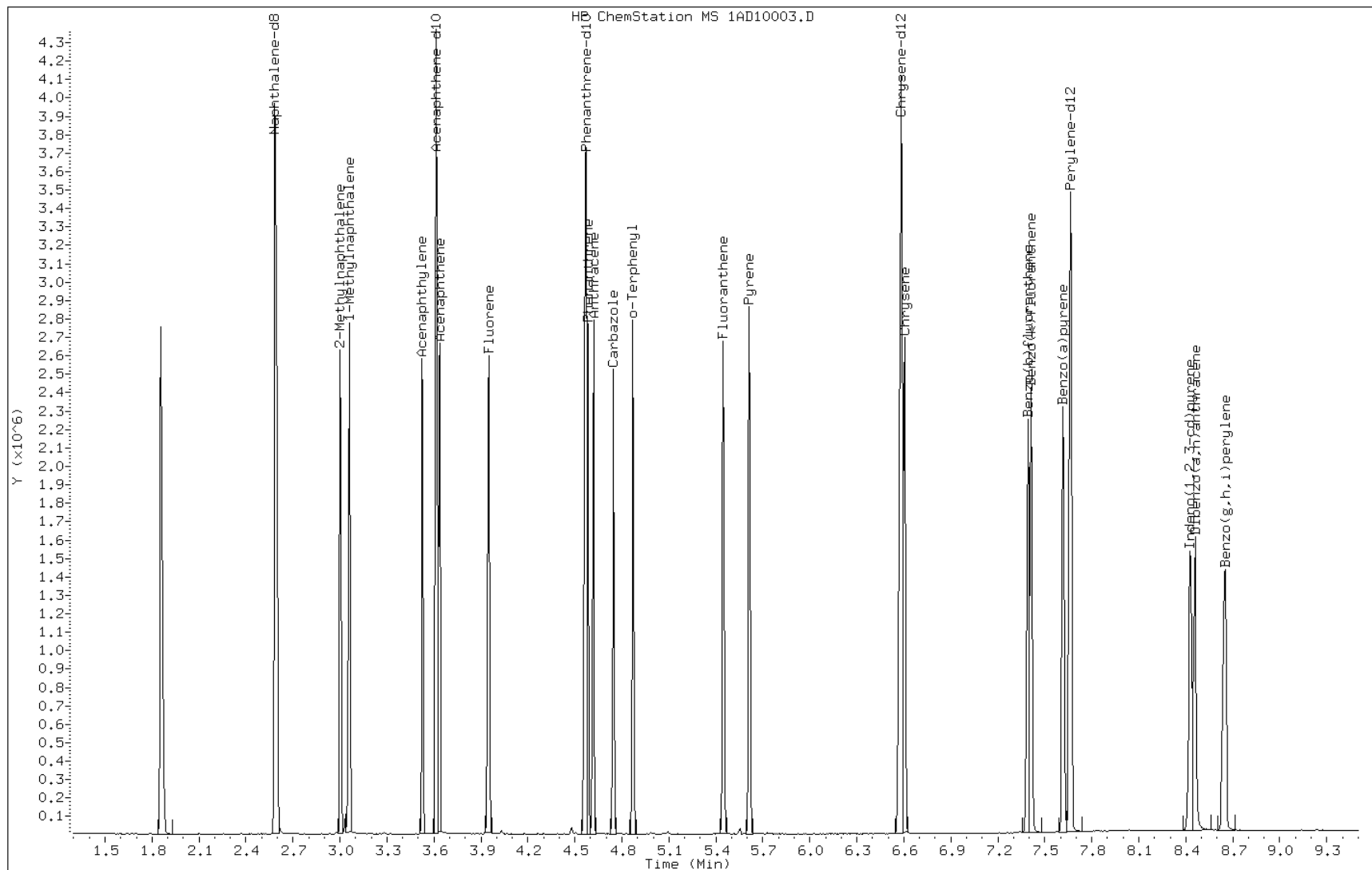
Date: 10-APR-2013 12:41

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1531401

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Lab Sample ID: ICV 660-136048/12 Calibration Date: 04/02/2013 15:34
 Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/02/2013 15:15
 Lab File ID: 1CD02012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.9549	0.0000	18600	20000	-7.1	35.0
2-Methylnaphthalene	Ave	0.6994	0.5884	0.0000	16800	20000	-15.9	35.0
1-Methylnaphthalene	Ave	0.6293	0.5998	0.0000	19100	20000	-4.7	35.0
Acenaphthylene	Ave	1.656	1.493	0.0000	18000	20000	-9.8	35.0
Acenaphthene	Lin	1.025	0.8508	0.0000	16600	20000	-17.0	35.0
Fluorene	Ave	1.367	1.209	0.0000	17700	20000	-11.5	35.0
Phenanthrene	Ave	1.165	0.9563	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.181	0.9425	0.0000	16000	20000	-20.2	35.0
Carbazole	Ave	1.012	0.8775	0.0000	17300	20000	-13.3	35.0
Fluoranthene	Ave	1.287	1.100	0.0000	17100	20000	-14.5	35.0
Pyrene	Ave	1.108	0.8708	0.0000	15700	20000	-21.4	35.0
Benzo[a]anthracene	Lin	1.278	0.9658	0.0000	16800	20000	-16.0	35.0
Chrysene	Ave	1.140	0.8716	0.0000	15300	20000	-23.5	35.0
Benzo[b]fluoranthene	Ave	1.131	0.8920	0.0000	15800	20000	-21.1	35.0
Benzo[k]fluoranthene	Ave	1.094	0.8978	0.0000	16400	20000	-17.9	35.0
Benzo[a]pyrene	Ave	1.065	0.8060	0.0000	15100	20000	-24.3	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8744	0.0000	17300	20000	-13.5	35.0
Dibenz(a,h)anthracene	Ave	0.9341	0.8626	0.0000	18500	20000	-7.7	35.0
Benzo[g,h,i]perylene	Ave	1.032	0.8592	0.0000	16600	20000	-16.8	35.0
o-Terphenyl	Lin	0.6233	0.5049	0.0000	16200	20000	-19.0	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02012.D
Lab Smp Id: ICV-1448440
Inj Date : 02-APR-2013 15:34
Operator : SCC
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Inst ID: BSMC5973.i
Compound Sublist: pah.sub

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

							CONCENTRATIONS	
		QUANT	SIG				ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/l)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	649122	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	500935	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	955391	40.0000	
\$	14 o-Terphenyl	230	5.998	5.998	(1.044)	241169	16.1906	16.1906
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	1249690	40.0000	
*	23 Perylene-d12	264	8.856	8.863	(1.000)	1306409	40.0000	
	2 Naphthalene	128	3.727	3.728	(1.005)	309919	18.5886	18.5885
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	190970	16.8266	16.8266
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	194664	19.0620	19.0620
	5 Acenaphthylene	152	4.710	4.710	(0.982)	373939	18.0364	18.0363
	7 Acenaphthene	154	4.821	4.822	(1.005)	213089	16.5944	16.5943
	9 Fluorene	166	5.139	5.139	(1.071)	302875	17.6930	17.6929
	11 Phenanthrene	178	5.763	5.763	(1.003)	456841	16.4181	16.4181
	12 Anthracene	178	5.798	5.798	(1.009)	450208	15.9610	15.9609
	13 Carbazole	167	5.904	5.904	(1.028)	419186	17.3461	17.3460
	15 Fluoranthene	202	6.598	6.598	(1.148)	525545	17.1022	17.1021
	16 Pyrene	202	6.763	6.763	(0.880)	544110	15.7178	15.7178
	17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	603470	16.8016	16.8016

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====		=====	=====
19 Chrysene	228	7.704	7.710	(1.002)	544600		15.2932	15.2931
20 Benzo(b)fluoranthene	252	8.515	8.522	(0.961)	582649		15.7757	15.7757
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.964)	586474		16.4181	16.4181
22 Benzo(a)pyrene	252	8.804	8.810	(0.994)	526495		15.1414	15.1414
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.016	(1.130)	571166		17.2941	17.2940(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.033	(1.131)	563427		18.4677	18.4676
26 Benzo(g,h,i)perylene	276	10.351	10.363	(1.169)	561199		16.6490	16.6490

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02012.D

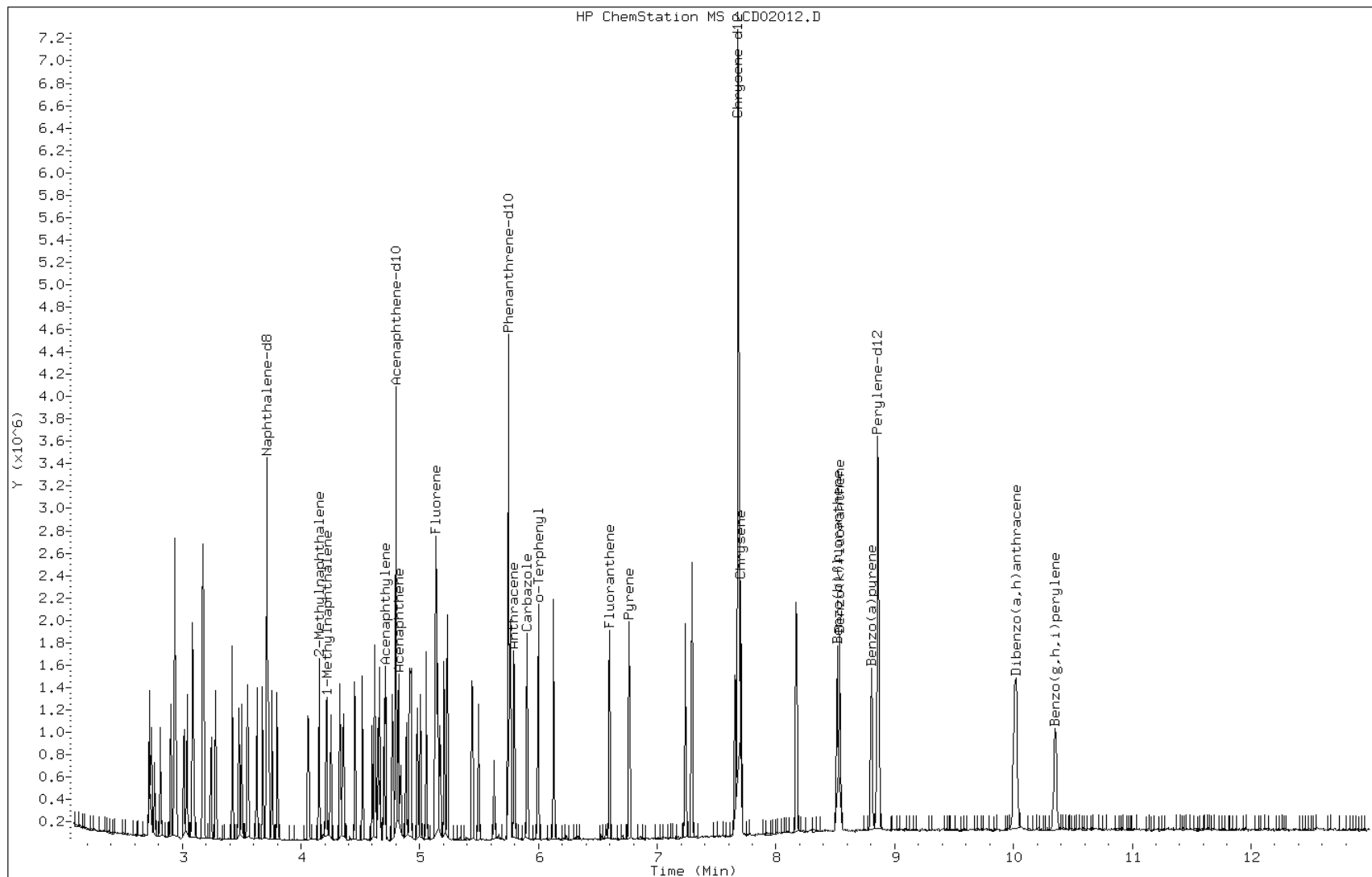
Date: 02-APR-2013 15:34

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

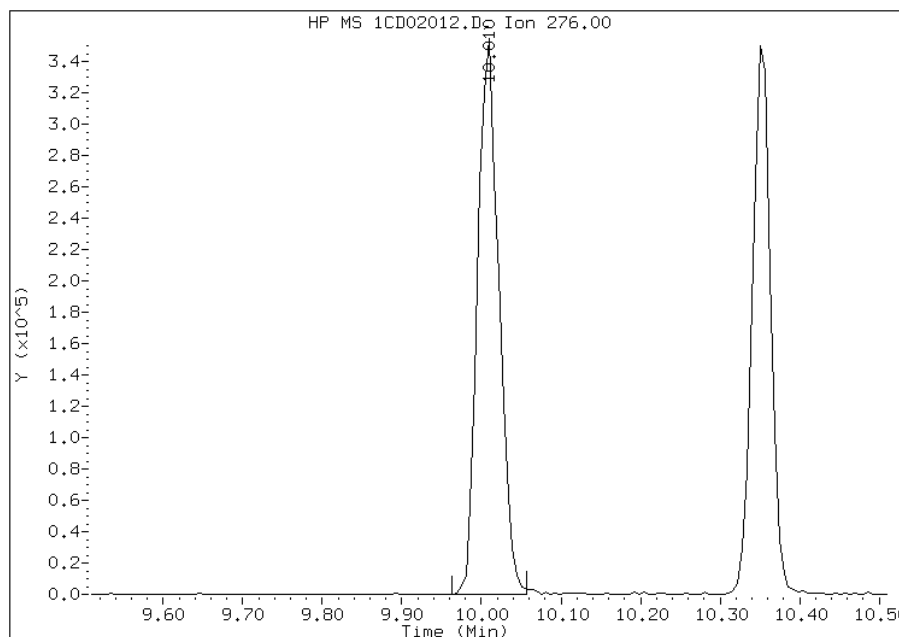


Manual Integration Report

Data File: 1CD02012.D
Inj. Date and Time: 02-APR-2013 15:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

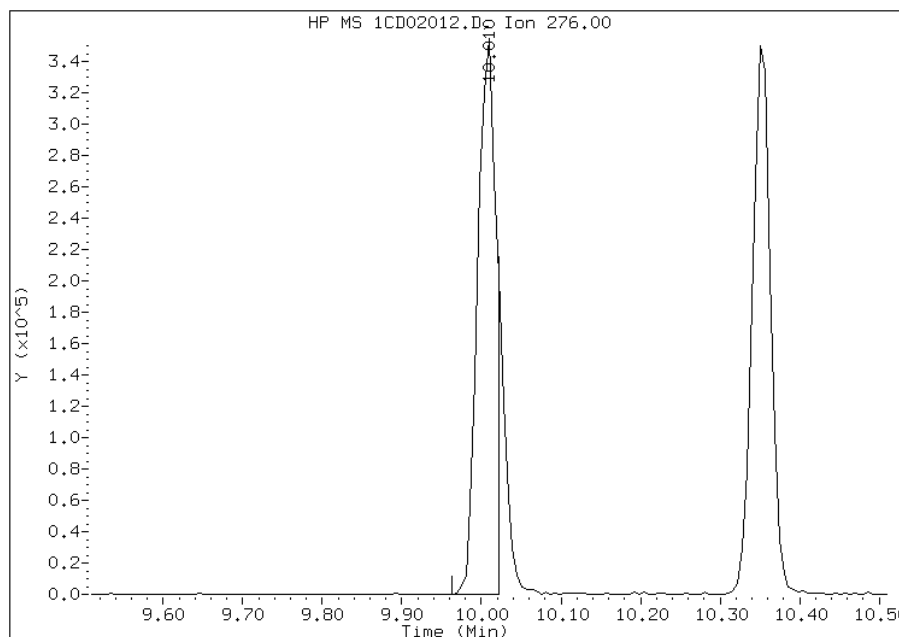
Processing Integration Results

RT: 10.01
Response: 653584
Amount: 20
Conc: 20



Manual Integration Results

RT: 10.01
Response: 571166
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:57
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Lab Sample ID: CCVIS 660-136309/3 Calibration Date: 04/10/2013 12:10
 Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/02/2013 15:15
 Lab File ID: 1CD10003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.996	0.0000	19400	20000	-3.1	20.0
2-Methylnaphthalene	Ave	0.6994	0.6277	0.0000	18000	20000	-10.2	20.0
1-Methylnaphthalene	Ave	0.6293	0.6353	0.0000	20200	20000	1.0	20.0
Acenaphthylene	Ave	1.656	1.700	0.0000	20500	20000	2.7	20.0
Acenaphthene	Lin	1.025	1.110	0.0000	21700	20000	8.3	20.0
Fluorene	Ave	1.367	1.302	0.0000	19100	20000	-4.7	20.0
Phenanthrene	Ave	1.165	1.213	0.0000	20800	20000	4.2	20.0
Anthracene	Ave	1.181	1.261	0.0000	21300	20000	6.7	20.0
Carbazole	Ave	1.012	1.032	0.0000	20400	20000	2.0	20.0
Fluoranthene	Ave	1.287	1.335	0.0000	20800	20000	3.8	20.0
Pyrene	Ave	1.108	1.109	0.0000	20000	20000	0.0	20.0
Benzo[a]anthracene	Lin	1.278	1.088	0.0000	18900	20000	-5.4	20.0
Chrysene	Ave	1.140	1.090	0.0000	19100	20000	-4.4	20.0
Benzo[b]fluoranthene	Ave	1.131	1.154	0.0000	20400	20000	2.0	20.0
Benzo[k]fluoranthene	Ave	1.094	1.129	0.0000	20600	20000	3.2	20.0
Benzo[a]pyrene	Ave	1.065	1.093	0.0000	20500	20000	2.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8567	0.0000	16900	20000	-15.3	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9587	0.0000	20500	20000	2.6	20.0
Benzo[g,h,i]perylene	Ave	1.032	1.029	0.0000	19900	20000	-0.3	20.0
o-Terphenyl	Lin	0.6233	0.6564	0.0000	20800	20000	4.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 10-APR-2013 12:10
Operator : SCC
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10003.D
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.680	3.680	(1.000)	324897	40.0000	
* 6 Acenaphthene-d10	164	4.768	4.768	(1.000)	222702	40.0000	
* 10 Phenanthrene-d10	188	5.710	5.710	(1.000)	427547	40.0000	
\$ 14 o-Terphenyl	230	5.963	5.963	(1.044)	140327	20.0000	20.8335
* 18 Chrysene-d12	240	7.645	7.645	(1.000)	562910	40.0000	(H)
* 23 Perylene-d12	264	8.809	8.809	(1.000)	541225	40.0000	(H)
2 Naphthalene	128	3.692	3.692	(1.003)	161745	20.0000	19.3824
3 2-Methylnaphthalene	142	4.121	4.121	(1.120)	101969	20.0000	17.9506
4 1-Methylnaphthalene	142	4.180	4.180	(1.136)	103201	20.0000	20.1905
5 Acenaphthylene	152	4.680	4.680	(0.981)	189256	20.0000	20.5331
7 Acenaphthene	154	4.786	4.786	(1.004)	123651	20.0000	21.6598
9 Fluorene	166	5.104	5.104	(1.070)	145008	20.0000	19.0540
11 Phenanthrene	178	5.727	5.727	(1.003)	259408	20.0000	20.8323
12 Anthracene	178	5.763	5.763	(1.009)	269479	20.0000	21.3485
13 Carbazole	167	5.868	5.868	(1.028)	220592	20.0000	20.3977
15 Fluoranthene	202	6.557	6.557	(1.148)	285476	20.0000	20.7591
16 Pyrene	202	6.727	6.727	(0.880)	311994	20.0000	20.0085(H)
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	306247	20.0000	18.9119(H)
19 Chrysene	228	7.668	7.668	(1.003)	306644	20.0000	19.1168(H)
20 Benzo(b)fluoranthene	252	8.474	8.474	(0.962)	312222	20.0000	20.4054(H)
21 Benzo(k)fluoranthene	252	8.498	8.498	(0.965)	305560	20.0000	20.6477(H)
22 Benzo(a)pyrene	252	8.756	8.756	(0.994)	295893	20.0000	20.5403(H)
24 Indeno(1,2,3-cd)pyrene	276	9.939	9.939	(1.128)	231826	20.0000	16.9433(MH)
25 Dibenzo(a,h)anthracene	278	9.950	9.950	(1.130)	259424	20.0000	20.5251(H)
26 Benzo(g,h,i)perylene	276	10.280	10.280	(1.167)	278380	20.0000	19.9347(H)

QC Flag Legend

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

Data File: 1CD10003.D

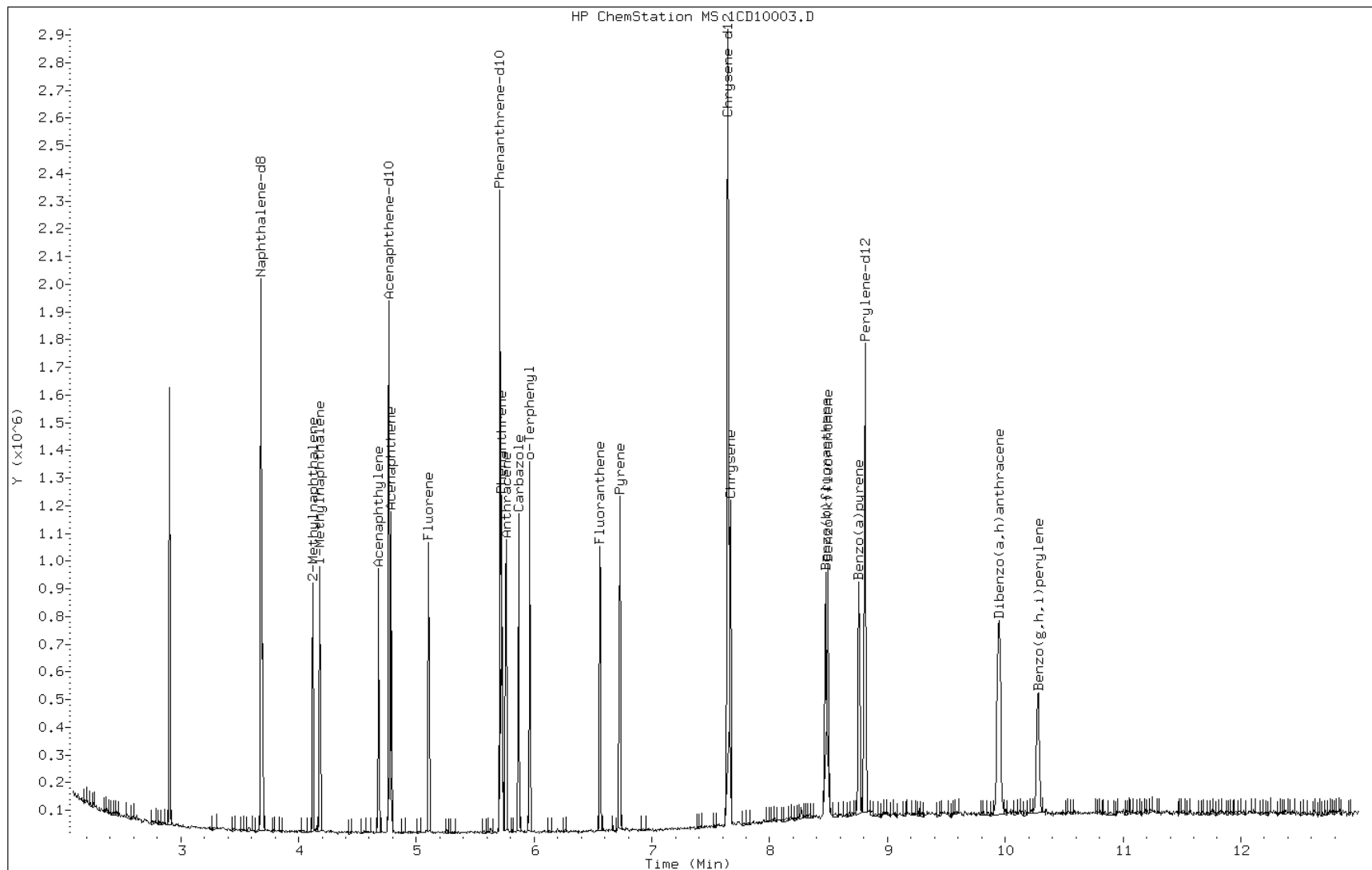
Date: 10-APR-2013 12:10

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

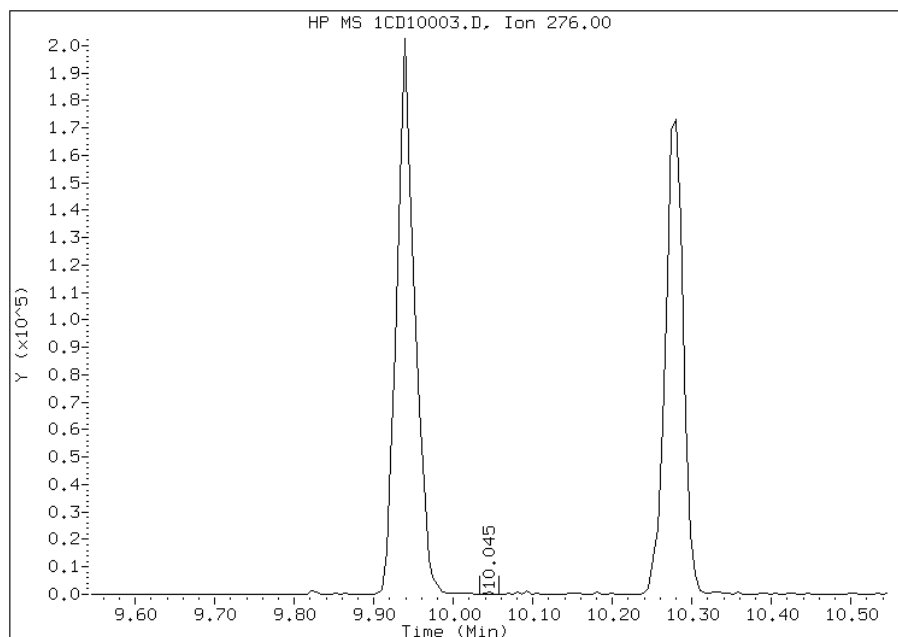


Manual Integration Report

Data File: 1CD10003.D
Inj. Date and Time: 10-APR-2013 12:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

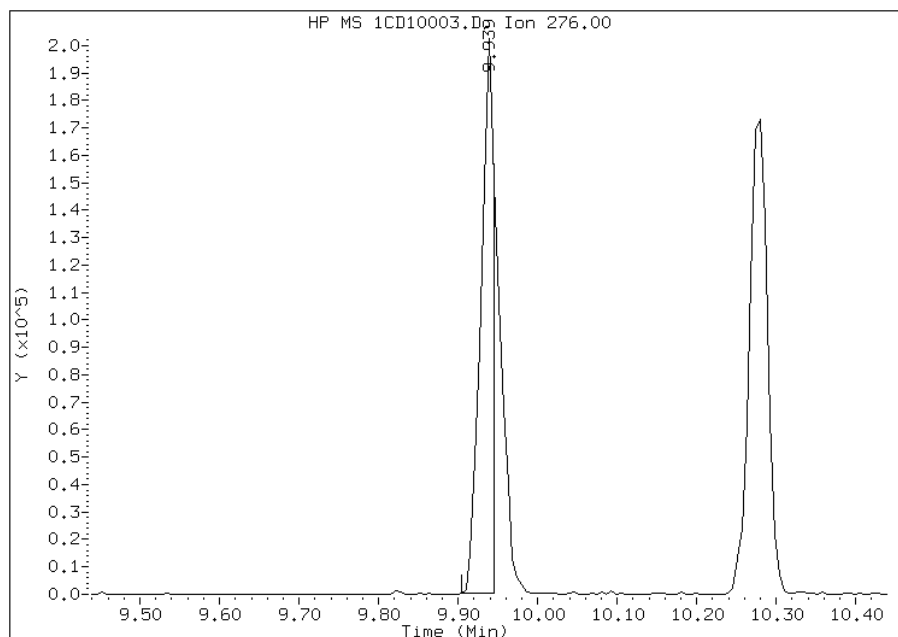
Processing Integration Results

RT: 10.05
Response: 517
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.94
Response: 231826
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:26
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Lab Sample ID: ICV 660-136164/22 Calibration Date: 04/04/2013 16:27
 Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/04/2013 16:04
 Lab File ID: 1DD04014.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9009	0.0000	2000	20.0	-9.4	35.0
2-Methylnaphthalene	Ave	0.6418	0.5957	0.0000	2000	20.0	-7.2	35.0
1-Methylnaphthalene	Ave	0.6061	0.5697	0.0000	2000	20.0	-6.0	35.0
Acenaphthylene	Ave	1.693	1.431	0.0000	1000	20.0	-15.5	35.0
Acenaphthene	Ave	1.045	0.8522	0.0000	2000	20.0	-18.5	35.0
Fluorene	Ave	1.238	1.099	0.0000	2000	20.0	-11.2	35.0
Phenanthrene	Ave	1.102	0.8997	0.0000	500	20.0	-18.3	35.0
Anthracene	Ave	1.094	0.9197	0.0000	200	20.0	-15.9	35.0
Carbazole	Ave	0.9646	0.6860	0.0000	1000	20.0	-28.9	35.0
Fluoranthene	Ave	1.134	0.9937	0.0000	500	20.0	-12.4	35.0
Pyrene	Ave	1.201	0.9577	0.0000	500	20.0	-20.3	35.0
Benzo[a]anthracene	Ave	1.156	0.9847	0.0000	200	20.0	-14.9	35.0
Chrysene	Ave	1.084	0.8727	0.0000	200	20.0	-19.5	35.0
Benzo[b]fluoranthene	Ave	0.999	0.8893	0.0000	200	20.0	-11.0	35.0
Benzo[k]fluoranthene	Ave	1.053	0.8752	0.0000	200	20.0	-16.9	35.0
Benzo[a]pyrene	Ave	1.004	0.7657	0.0000	200	20.0	-23.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	0.8560	0.0000	200	20.0	-20.0	35.0
Dibenz(a,h)anthracene	Ave	1.008	0.9464	0.0000	200	20.0	-6.1	35.0
Benzo[g,h,i]perylene	Ave	1.031	0.8761	0.0000	500	20.0	-15.0	35.0
o-Terphenyl	Ave	0.6027	0.4989	0.0000	16.6	20.0	-17.2	35.0

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04014.D
 Lab Smp Id: ICV-1448440
 Inj Date : 04-APR-2013 16:27
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : ICV-1448440
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
 Meth Date : 05-Apr-2013 13:07 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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/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

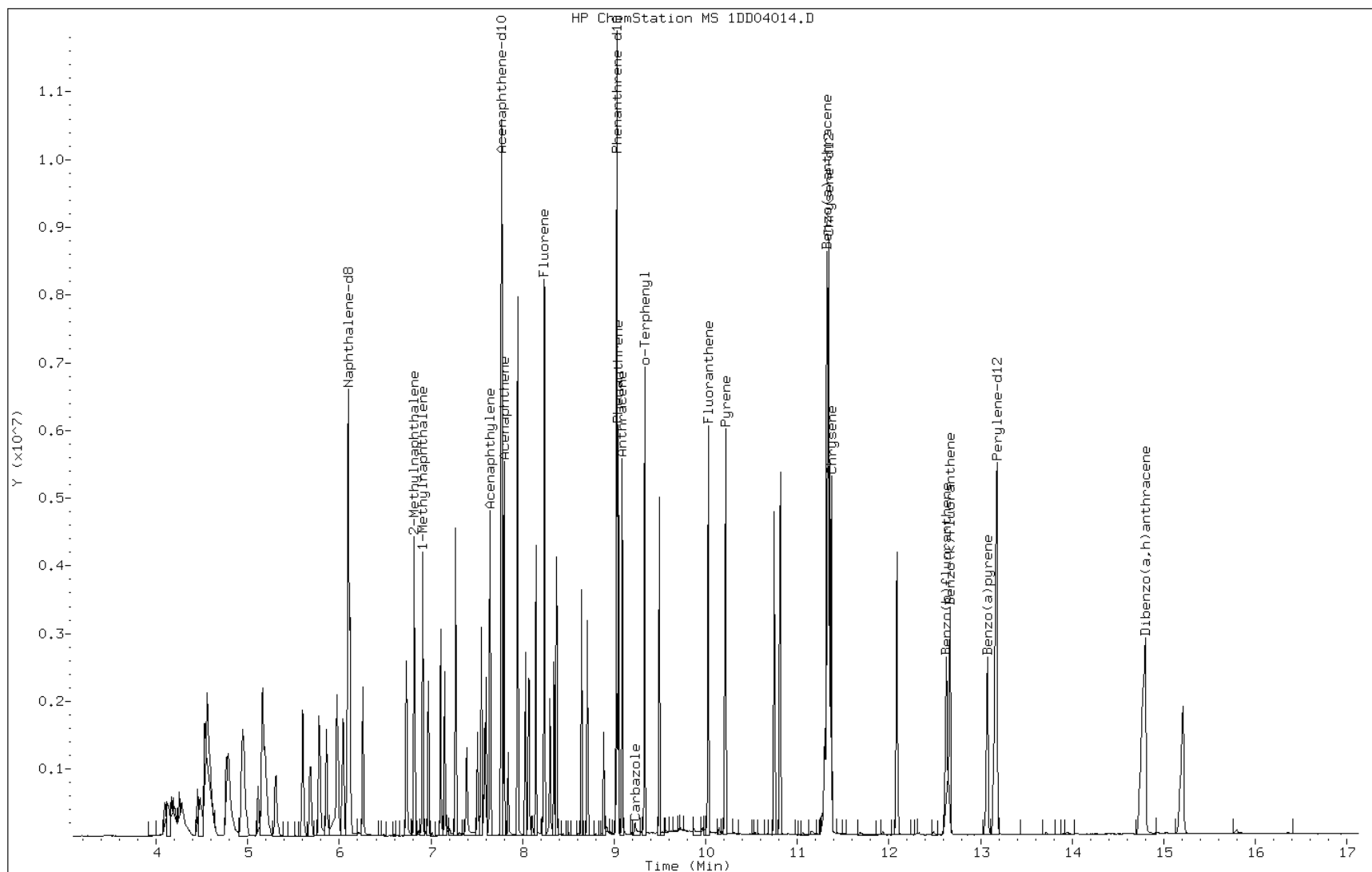
Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.096	6.090	(1.000)		3619899	40.0000	
* 6 Acenaphthene-d10	164		7.771	7.770	(1.000)		2333423	40.0000	
* 9 Phenanthrene-d10	188		9.028	9.028	(1.000)		3845474	40.0000	
\$ 13 o-Terphenyl	230		9.334	9.339	(1.034)		959307	16.5566	16
* 17 Chrysene-d12	240		11.349	11.349	(1.000)		3963674	40.0000	
* 22 Perylene-d12	264		13.182	13.176	(1.000)		3958481	40.0000	
2 Naphthalene	128		6.114	6.114	(1.003)		1630598	18.1229	18
3 2-Methylnaphthalene	142		6.819	6.819	(1.119)		1078163	18.5630	18
4 1-Methylnaphthalene	142		6.913	6.913	(1.134)		1031118	18.7992	19
5 Acenaphthylene	152		7.642	7.641	(0.983)		1669244	16.9019	17
7 Acenaphthene	154		7.800	7.800	(1.004)		994282	16.3100	16
8 Fluorene	166		8.241	8.240	(1.060)		1281905	17.7572	18
10 Phenanthrene	178		9.046	9.051	(1.002)		1729949	16.3322	16
11 Anthracene	178		9.087	9.092	(1.007)		1768381	16.8207	17
12 Carbazole	167		9.228	9.233	(1.022)		1319041	14.2242	14(M)
14 Fluoranthene	202		10.027	10.032	(1.111)		1910613	17.5287	18
15 Pyrene	202		10.215	10.220	(0.900)		1898084	15.9464	16

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	1951469	17.0289	17
18 Chrysene	228	11.372	11.378	(1.002)	1729613	16.0966	16
19 Benzo(b)fluoranthene	252	12.630	12.635	(0.958)	1760131	17.8000	18
20 Benzo(k)fluoranthene	252	12.671	12.682	(0.961)	1732123	16.6271	17
21 Benzo(a)pyrene	252	13.076	13.094	(0.992)	1515587	15.2542	15
23 Indeno(1,2,3-cd)pyrene	276	14.763	14.786	(1.120)	1694283	15.9925	16(M)
24 Dibenzo(a,h)anthracene	278	14.798	14.827	(1.123)	1873209	18.7764	19
25 Benzo(g,h,i)perylene	276	15.215	15.238	(1.154)	1734029	16.9990	17(H)

QC Flag Legend

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

Operator: SCC

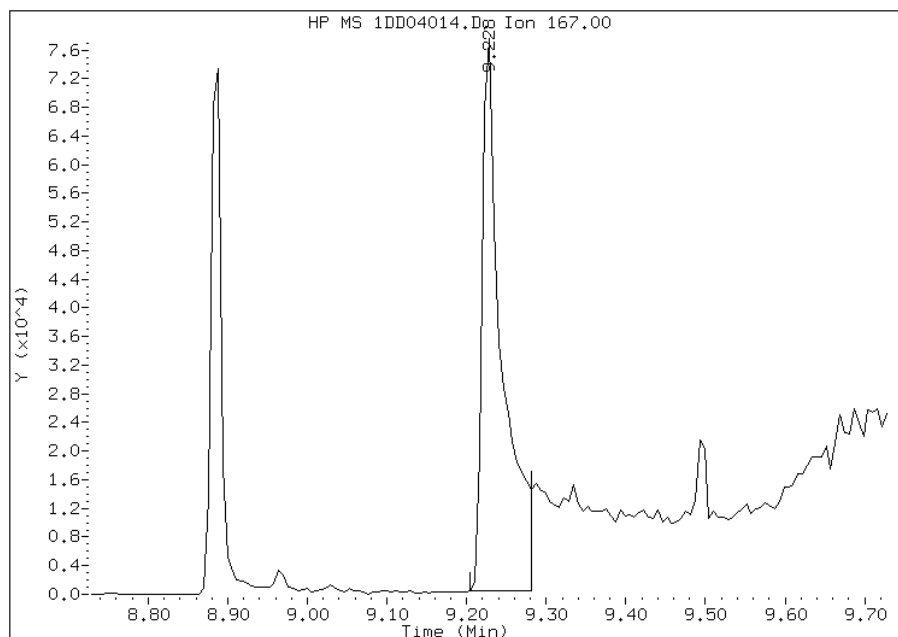


Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 04/05/2013

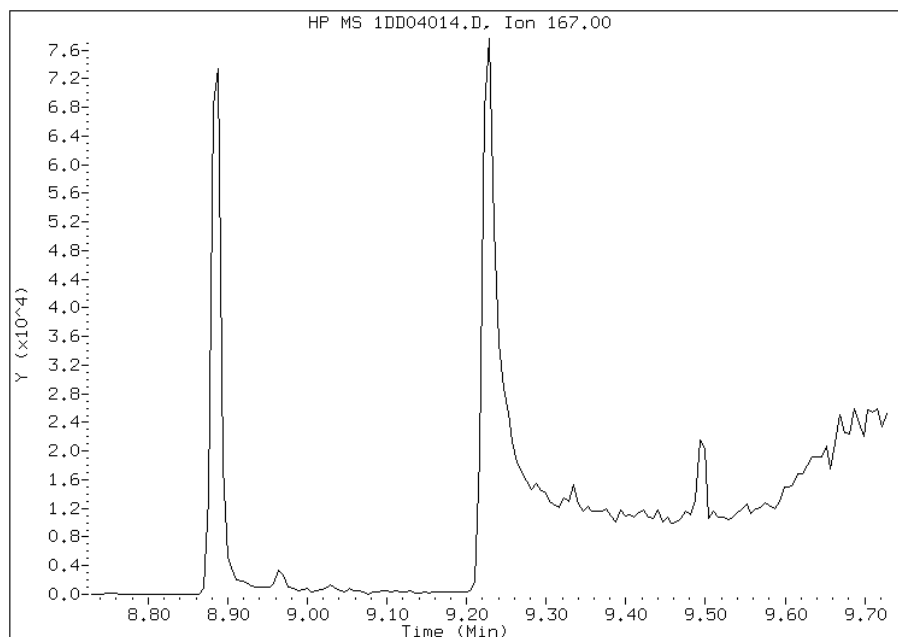
Processing Integration Results

RT: 9.23
Response: 136620
Amount: 1
Conc: 1



Manual Integration Results

RT: 9.23
Response: 1319041
Amount: 14
Conc: 14



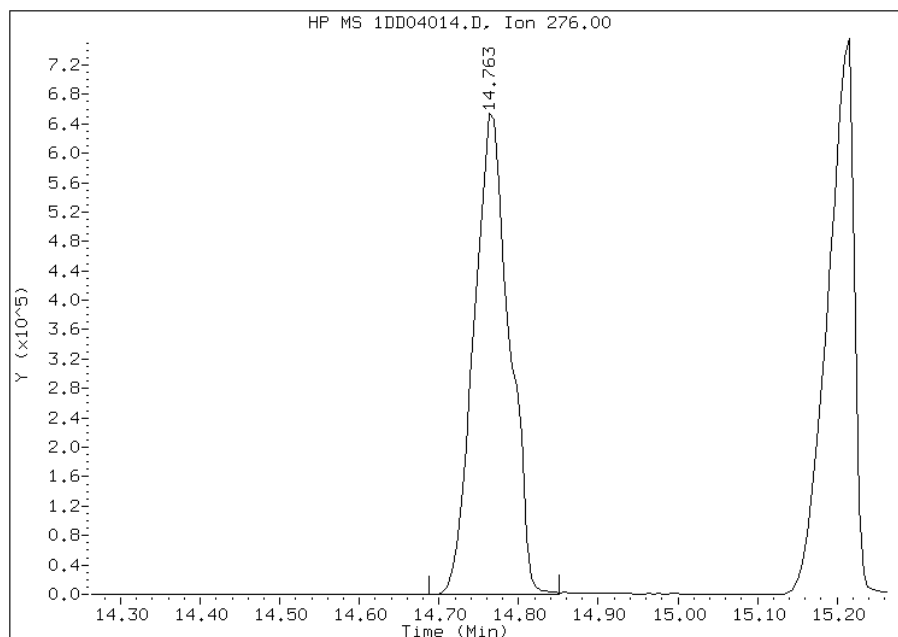
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

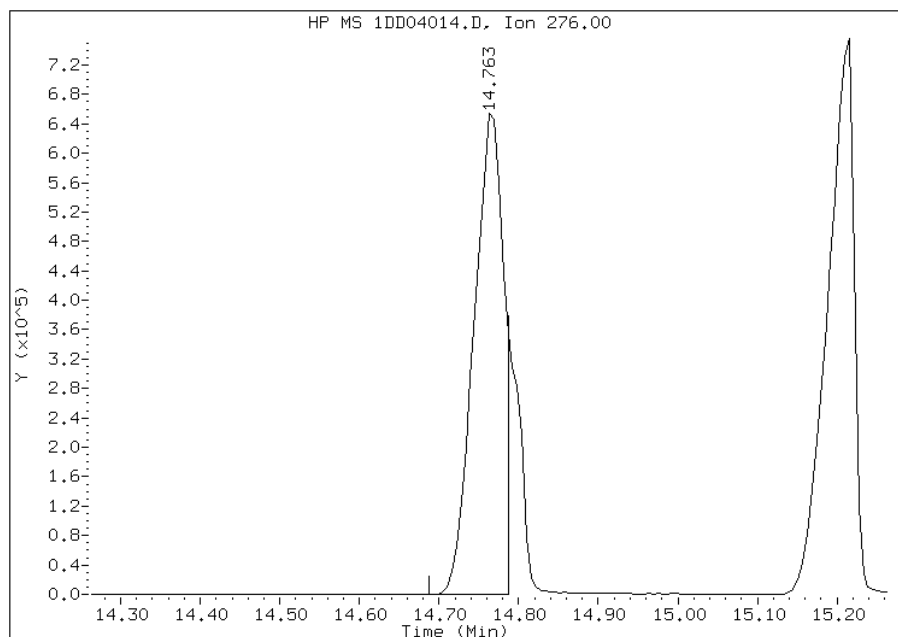
Processing Integration Results

RT: 14.76
Response: 2024721
Amount: 19
Conc: 19



Manual Integration Results

RT: 14.76
Response: 1694283
Amount: 16
Conc: 16



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:09
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Lab Sample ID: CCVIS 660-136371/4 Calibration Date: 04/11/2013 11:20
 Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/04/2013 16:04
 Lab File ID: 1DD11004.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9912	0.0000	2000	20.0	-0.3	20.0
2-Methylnaphthalene	Ave	0.6418	0.6595	0.0000	2000	20.0	2.8	20.0
1-Methylnaphthalene	Ave	0.6061	0.6269	0.0000	2000	20.0	3.4	20.0
Acenaphthylene	Ave	1.693	1.709	0.0000	1000	20.0	0.9	20.0
Acenaphthene	Ave	1.045	1.036	0.0000	2000	20.0	-0.9	20.0
Fluorene	Ave	1.238	1.252	0.0000	2000	20.0	1.2	20.0
Phenanthrene	Ave	1.102	1.069	0.0000	500	20.0	-3.0	20.0
Anthracene	Ave	1.094	1.087	0.0000	200	20.0	-0.6	20.0
Carbazole	Ave	0.9646	0.9360	0.0000	1000	20.0	-3.0	20.0
Fluoranthene	Ave	1.134	1.162	0.0000	500	20.0	2.5	20.0
Pyrene	Ave	1.201	1.180	0.0000	500	20.0	-1.7	20.0
Benzo[a]anthracene	Ave	1.156	1.038	0.0000	200	20.0	-10.2	20.0
Chrysene	Ave	1.084	1.032	0.0000	200	20.0	-4.8	20.0
Benzo[b]fluoranthene	Ave	0.999	1.011	0.0000	200	20.0	1.2	20.0
Benzo[k]fluoranthene	Ave	1.053	1.056	0.0000	200	20.0	0.3	20.0
Benzo[a]pyrene	Ave	1.004	1.010	0.0000	200	20.0	0.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.069	0.0000	200	20.0	-0.2	20.0
Dibenz(a,h)anthracene	Ave	1.008	1.011	0.0000	200	20.0	0.3	20.0
Benzo[g,h,i]perylene	Ave	1.031	1.016	0.0000	500	20.0	-1.4	20.0
o-Terphenyl	Ave	0.6027	0.6224	0.0000	20.7	20.0	3.3	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11004.D
Lab Smp Id: CCVIS-1531401
Inj Date : 11-APR-2013 11:20
Operator : SCC
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\dFASTPAHi.m
Meth Date : 11-Apr-2013 11:40 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COL
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.078	6.078	(1.000)	2567445	40.0000	
* 6 Acenaphthene-d10	164	7.752	7.752	(1.000)	1567812	40.0000	
* 9 Phenanthrene-d10	188	9.016	9.016	(1.000)	2682457	40.0000	
\$ 13 o-Terphenyl	230	9.327	9.327	(1.035)	834712	20.0000	21
* 17 Chrysene-d12	240	11.331	11.331	(1.000)	2805579	40.0000	
* 22 Perylene-d12	264	13.158	13.158	(1.000)	2830113	40.0000	
2 Naphthalene	128	6.096	6.096	(1.003)	1272370	20.0000	20
3 2-Methylnaphthalene	142	6.801	6.801	(1.119)	846572	20.0000	20
4 1-Methylnaphthalene	142	6.895	6.895	(1.134)	804760	20.0000	21
5 Acenaphthylene	152	7.623	7.623	(0.983)	1339467	20.0000	20
7 Acenaphthene	154	7.782	7.782	(1.004)	812197	20.0000	20
8 Fluorene	166	8.222	8.222	(1.061)	981323	20.0000	20
10 Phenanthrene	178	9.033	9.033	(1.002)	1433787	20.0000	19
11 Anthracene	178	9.074	9.074	(1.007)	1458017	20.0000	20
12 Carbazole	167	9.215	9.215	(1.022)	1255362	20.0000	19
14 Fluoranthene	202	10.014	10.014	(1.111)	1558514	20.0000	20
15 Pyrene	202	10.208	10.208	(0.901)	1655659	20.0000	20
16 Benzo(a)anthracene	228	11.313	11.313	(0.998)	1456194	20.0000	18
18 Chrysene	228	11.354	11.354	(1.002)	1448271	20.0000	19
19 Benzo(b)fluoranthene	252	12.611	12.611	(0.958)	1430596	20.0000	20
20 Benzo(k)fluoranthene	252	12.653	12.653	(0.962)	1494018	20.0000	20
21 Benzo(a)pyrene	252	13.064	13.064	(0.993)	1429772	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.744	14.744	(1.121)	1512212	20.0000	20(M)
24 Dibenzo(a,h)anthracene	278	14.779	14.779	(1.123)	1431111	20.0000	20
25 Benzo(g,h,i)perylene	276	15.191	15.191	(1.154)	1438108	20.0000	20

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD11004.D

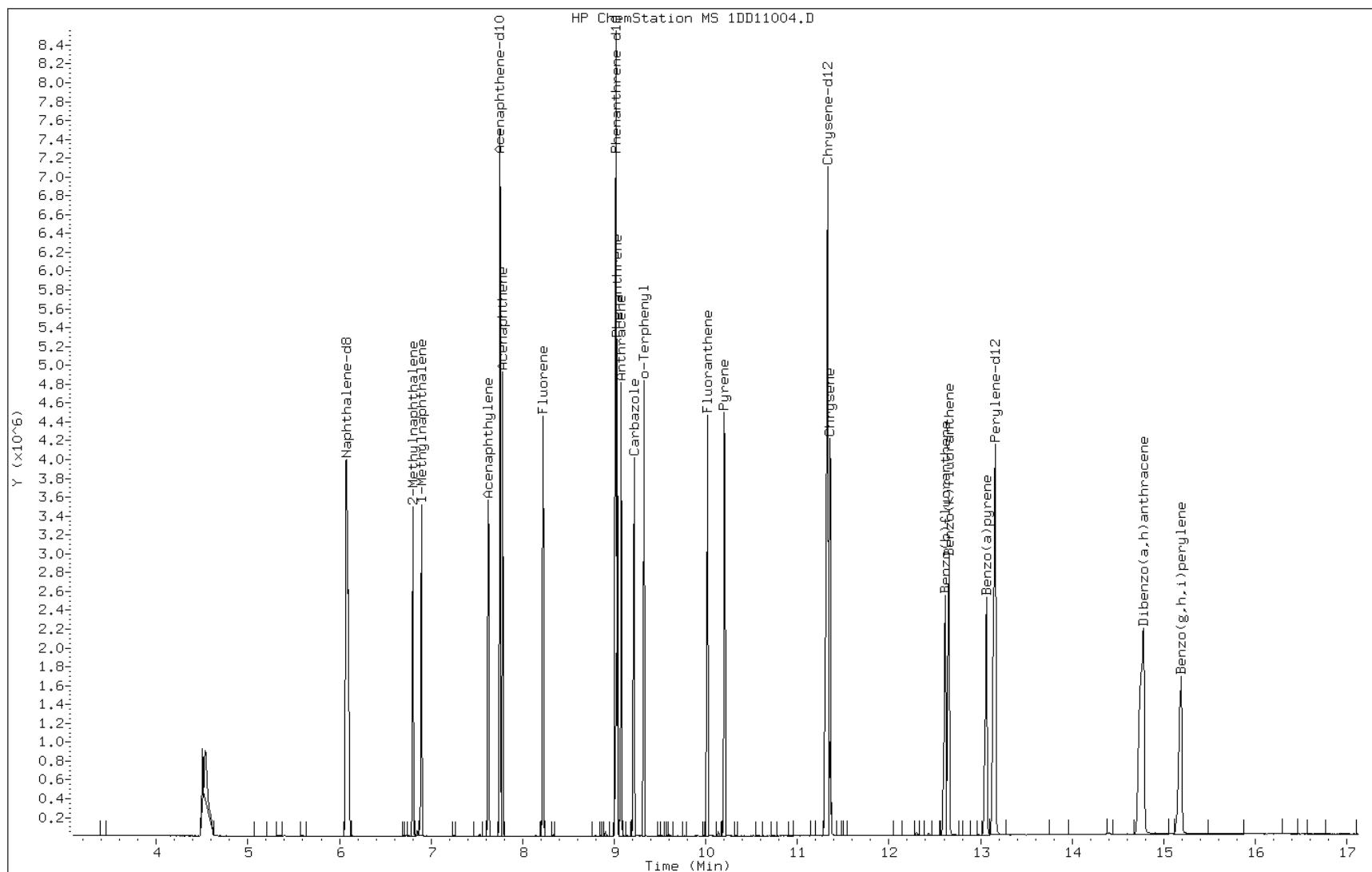
Date: 11-APR-2013 11:20

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1531401

Operator: SCC

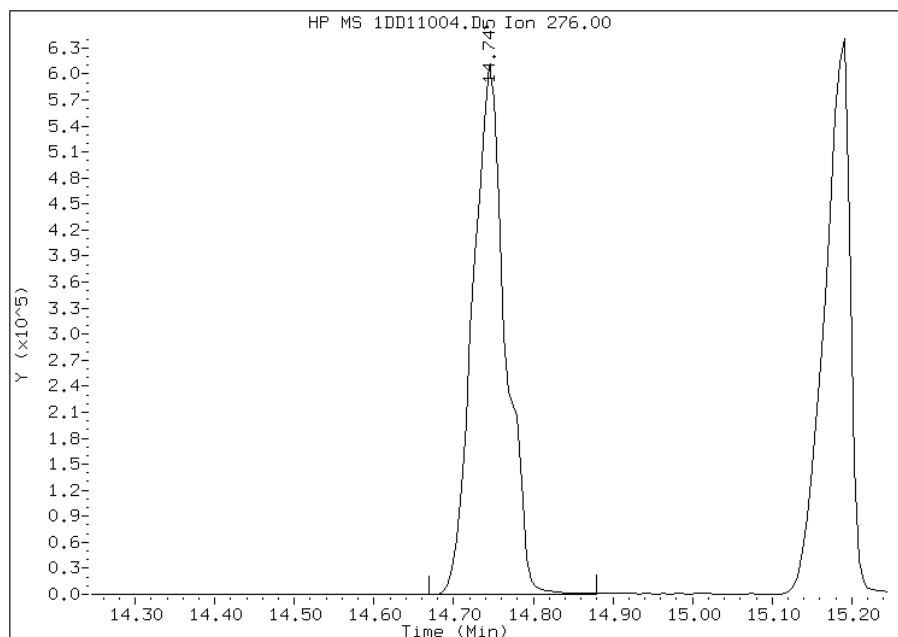


Manual Integration Report

Data File: 1DD11004.D
Inj. Date and Time: 11-APR-2013 11:20
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

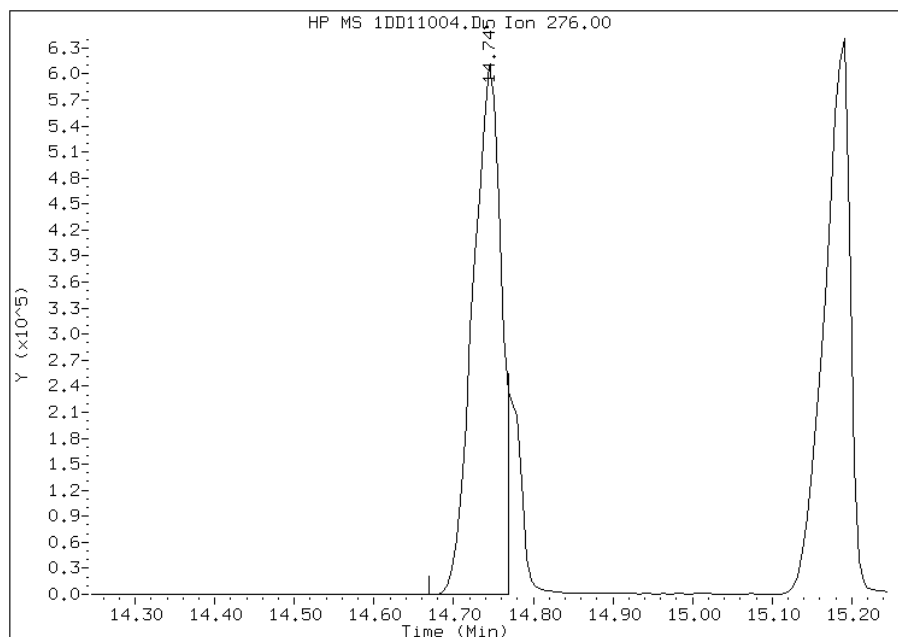
Processing Integration Results

RT: 14.74
Response: 1741216
Amount: 23
Conc: 23



Manual Integration Results

RT: 14.74
Response: 1512212
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:41
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913.b\1AD09002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 09-APR-2013 10:18
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : DFTPP-1465456
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913.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		FINAL					
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5					
4.953	4.963	-0.010	198	207040			50.00-	0.00	100.00
4.953	4.963	-0.010	51	46512			10.00-	80.00	22.47
4.953	4.963	-0.010	68	0	0.0	0.0	0.00-	2.00	0.00
4.953	4.963	-0.010	69	50000			0.00-	0.00	24.15
4.953	4.963	-0.010	70	472			0.00-	2.00	0.94
4.953	4.963	-0.010	127	74616			10.00-	80.00	36.04
4.953	4.963	-0.010	197	0	0.0	0.0	0.00-	2.00	0.00
4.953	4.963	-0.010	442	168320			50.00-	0.00	81.30
4.953	4.963	-0.010	199	12235			5.00-	9.00	5.91
4.953	4.963	-0.010	275	48480			10.00-	60.00	23.42
4.953	4.963	-0.010	365	4887			1.00-	0.00	2.36
4.953	4.963	-0.010	441	22920			0.01-	99.99	66.29
4.953	4.963	-0.010	443	34576			15.00-	24.00	20.54

Data File: 1AD09002.D

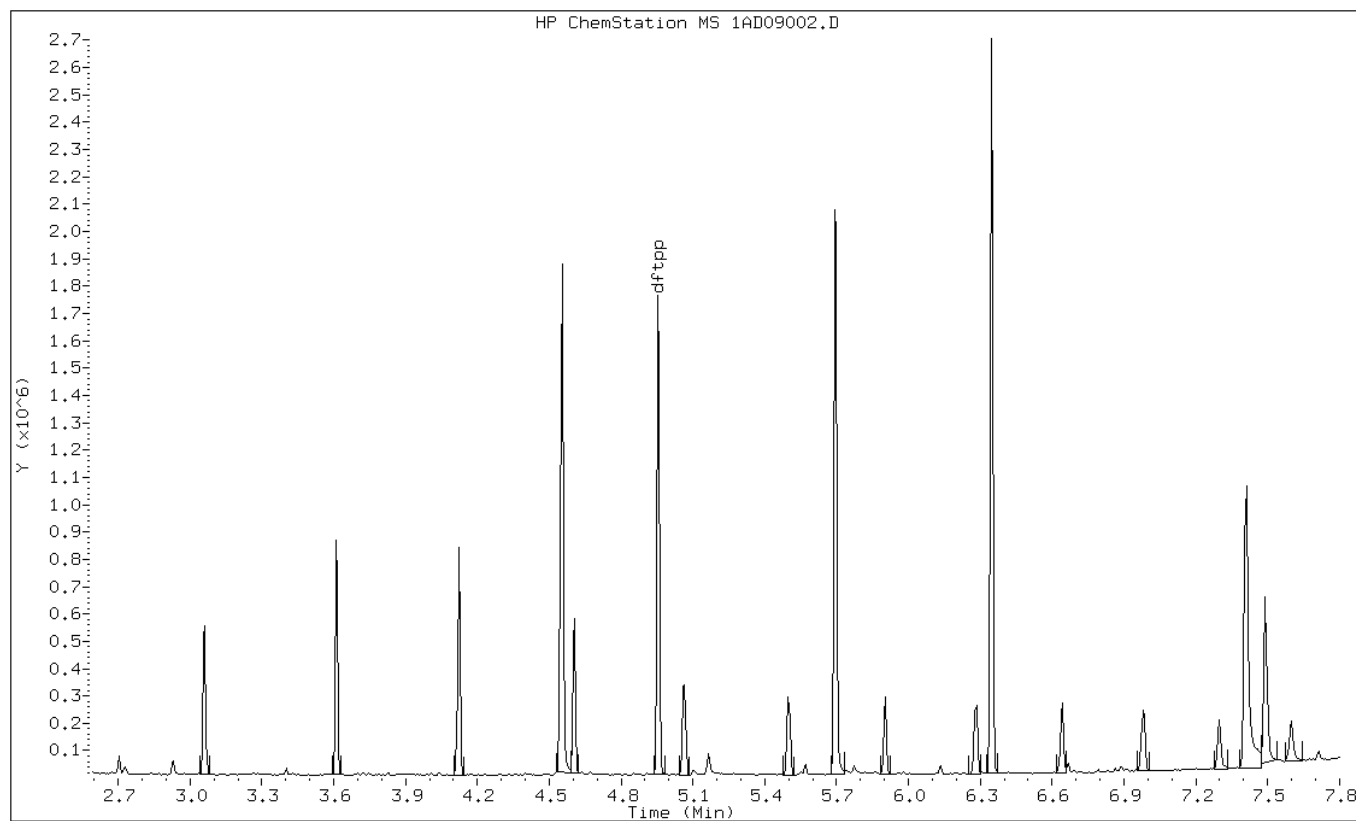
Date: 09-APR-2013 10:18

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



Data File: 1AD09002.D

Date: 09-APR-2013 10:18

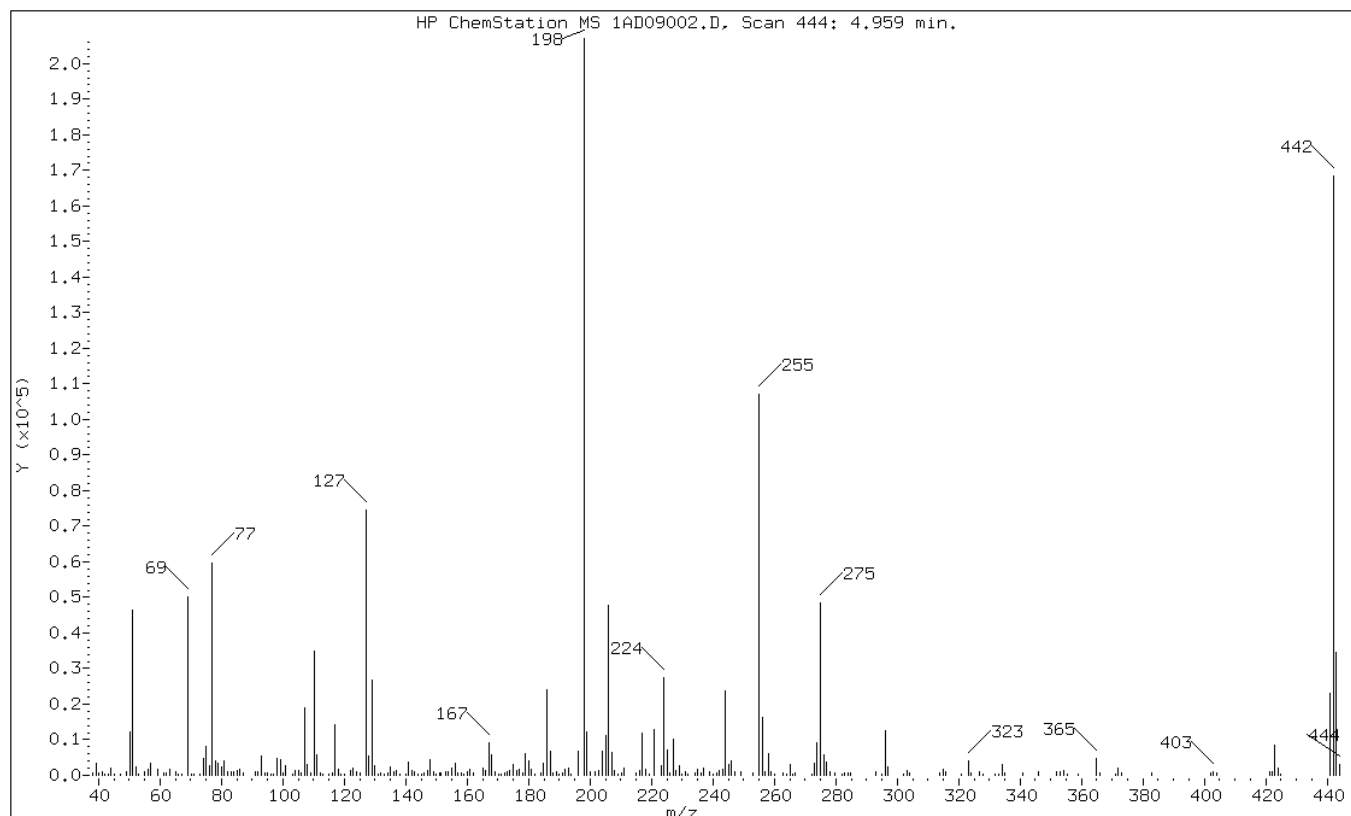
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	22.47
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	24.15
70	Less than 2.00% of mass 69	0.23 (0.94)
127	10.00 - 80.00% of mass 198	36.04
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	81.30
199	5.00 - 9.00% of mass 198	5.91
275	10.00 - 60.00% of mass 198	23.42
365	Greater than 1.00% of mass 198	2.36
441	Present, but less than mass 443	11.07
443	15.00 - 24.00% of mass 442	16.70 (20.54)

Data File: 1AD09002.D

Date: 09-APR-2013 10:18

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913_IC.b\1AD09002.D

Spectrum: HP ChemStation MS 1AD09002.D, Scan 444: 4.959 min.

Location of Maximum: 197.95

Number of points: 250

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.05	716	113.05	287	182.05	412	262.85	837
39.05	3288	114.95	260	184.05	685	264.05	262
40.05	637	116.05	786	184.95	3245	265.05	3085
41.05	905	116.95	14104	186.05	23952	265.85	489
42.05	268	118.05	1553	187.05	6730	266.75	708
43.05	372	118.95	395	188.05	796	272.05	305
44.05	1930	120.05	285	188.95	1066	273.05	3273
44.95	258	121.95	1391	189.95	280	273.95	9212
46.95	393	122.95	1965	190.95	573	275.05	48480
49.05	1184	124.05	1110	191.95	1637	276.05	5837
50.05	12192	125.05	831	193.05	2179	276.95	3876
51.05	46512	127.05	74616	193.95	497	277.95	1024
52.05	2262	127.95	5504	195.95	6847	279.85	594
53.05	279	128.95	26800	197.95	207040	281.85	271
55.05	1000	129.95	2867	198.95	12235	282.95	548
55.95	1734	131.05	338	199.95	1104	284.05	517
57.05	3403	131.95	684	201.65	899	284.95	801
59.05	1740	132.85	258	202.95	1200	292.95	878
61.05	739	134.05	809	204.05	6764	295.05	344
62.05	522	135.05	2363	205.05	11191	296.05	12678
63.05	1818	136.05	1098	206.05	47720	296.95	2210
65.05	1123	137.05	1494	207.05	6373	302.05	310
65.95	318	137.95	318	207.85	1394	303.05	1513
67.05	258	139.95	460	209.05	500	304.15	584
68.95	50000	140.95	3721	210.15	811	313.95	775
70.05	472	141.95	1508	210.95	1866	315.05	1532
71.05	503	142.95	1111	214.95	556	315.95	902
73.05	334	143.85	325	215.95	1398	321.05	496
74.05	4653	144.95	415	216.95	11927	323.05	4111
74.95	8058	146.05	703	217.95	1708	324.05	642
76.05	2567	147.05	1463	219.15	316	326.95	983
77.05	59696	148.05	4281	220.95	12964	327.95	328
78.05	3995	148.95	1163	223.05	2625	331.95	344
78.95	3445	149.95	396	224.05	27368	332.95	287
80.05	2409	151.05	565	225.05	7203	334.05	3031
80.95	4123	151.55	529	226.05	731	335.05	755
82.05	985	152.95	1127	226.95	10124	341.05	710
83.05	1159	153.95	1150	227.95	1439	346.05	1051
84.05	1102	154.95	2133	228.95	2725	351.95	1046
84.95	1190	156.05	3267	229.95	337	352.95	987

85.95	1589	156.95	716	231.05	1113	354.05	1367
86.95	702	157.95	686	231.95	309	355.25	323
91.05	1159	158.95	503	234.05	655	359.05	283
91.95	1117	159.95	1137	234.95	1534	364.95	4887
93.05	5493	160.95	1704	236.05	555	365.85	758
93.95	622	161.85	622	236.95	1870	371.05	319
95.05	687	164.95	1932	238.85	1158	372.05	1941
95.95	441	165.95	1214	239.95	391	373.05	662
97.05	360	166.95	9057	241.05	760	382.95	678
98.05	4781	167.95	5863	242.05	1486	401.95	764
99.05	4415	168.95	1139	243.05	1685	403.05	1155
99.95	565	170.05	417	244.05	23608	403.95	514
100.95	2650	171.05	489	245.05	3079	421.15	888
103.05	440	172.05	688	246.05	4078	421.95	1036
103.95	1377	172.95	974	246.95	915	423.05	8420
104.95	1463	173.95	1504	249.05	1030	423.95	1901
105.95	617	175.05	3172	253.05	690	424.85	265
106.95	19056	175.95	1258	255.05	107120	440.95	22920
108.05	3170	176.95	1768	256.05	16161	442.05	168320
109.05	661	178.05	579	256.95	1147	443.05	34576
110.05	34936	178.95	6169	257.95	5936	444.05	3040
111.05	5746	179.95	4186	258.95	951		
112.05	755	180.95	1806	260.05	252		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 10-APR-2013 12:19
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : DFTPP-1465456
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.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	FINAL				
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====		=====	
1 dftpp					CAS #: 5074-71-5					
4.946	4.963	-0.017	198	112120			50.00-	0.00	100.00	
4.946	4.963	-0.017	51	33517			10.00-	80.00	29.89	
4.946	4.963	-0.017	68	665			0.00-	2.00	1.93	
4.946	4.963	-0.017	69	34393			0.00-	0.00	30.68	
4.946	4.963	-0.017	70	433			0.00-	2.00	1.26	
4.946	4.963	-0.017	127	46582			10.00-	80.00	41.55	
4.946	4.963	-0.017	197	199			0.00-	2.00	0.18	
4.946	4.963	-0.017	442	73114			50.00-	0.00	65.21	
4.946	4.963	-0.017	199	7125			5.00-	9.00	6.35	
4.946	4.963	-0.017	275	25004			10.00-	60.00	22.30	
4.946	4.963	-0.017	365	2474			1.00-	0.00	2.21	
4.946	4.963	-0.017	441	10211			0.01-	99.99	68.55	
4.946	4.963	-0.017	443	14895			15.00-	24.00	20.37	

Data File: 1AD10002.D

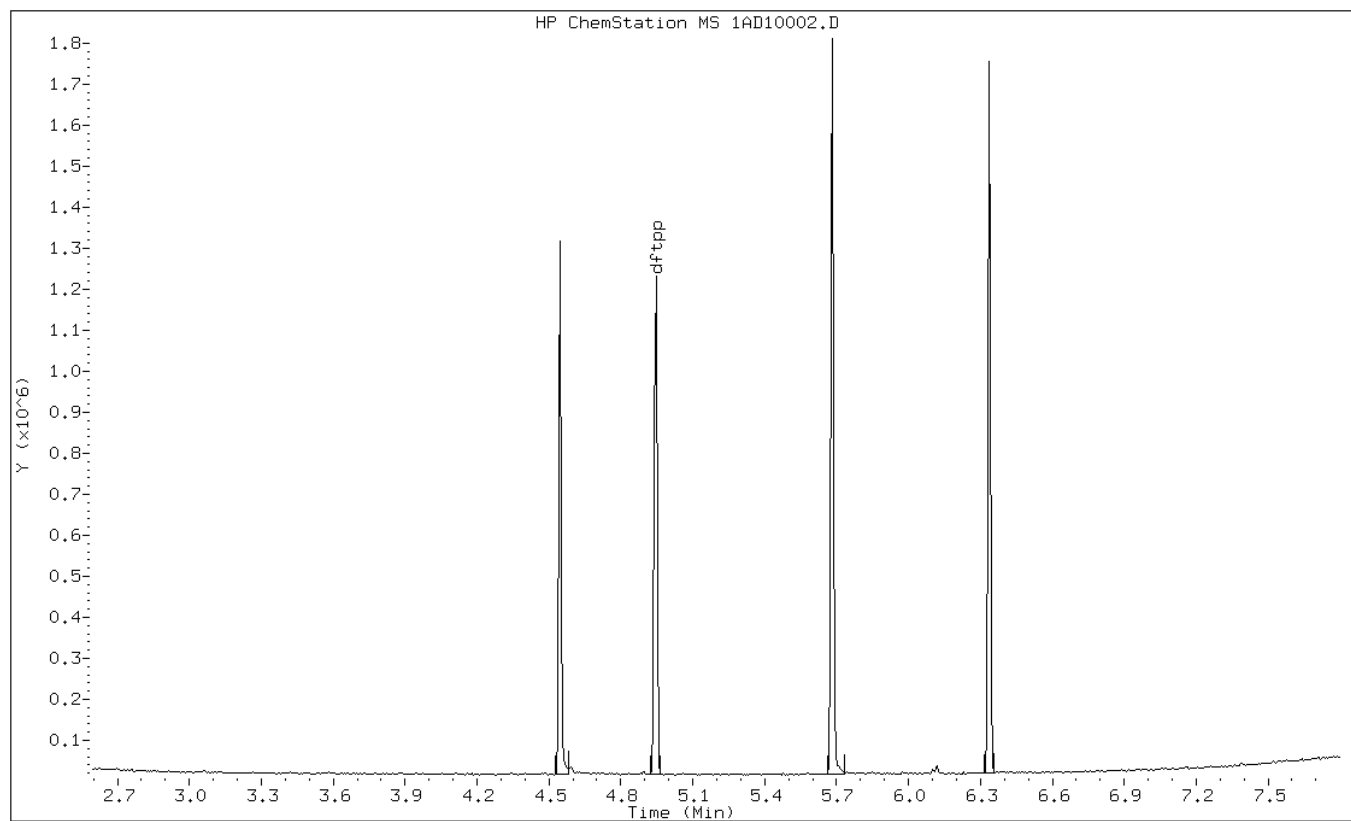
Date: 10-APR-2013 12:19

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



Data File: 1AD10002.D

Date: 10-APR-2013 12:19

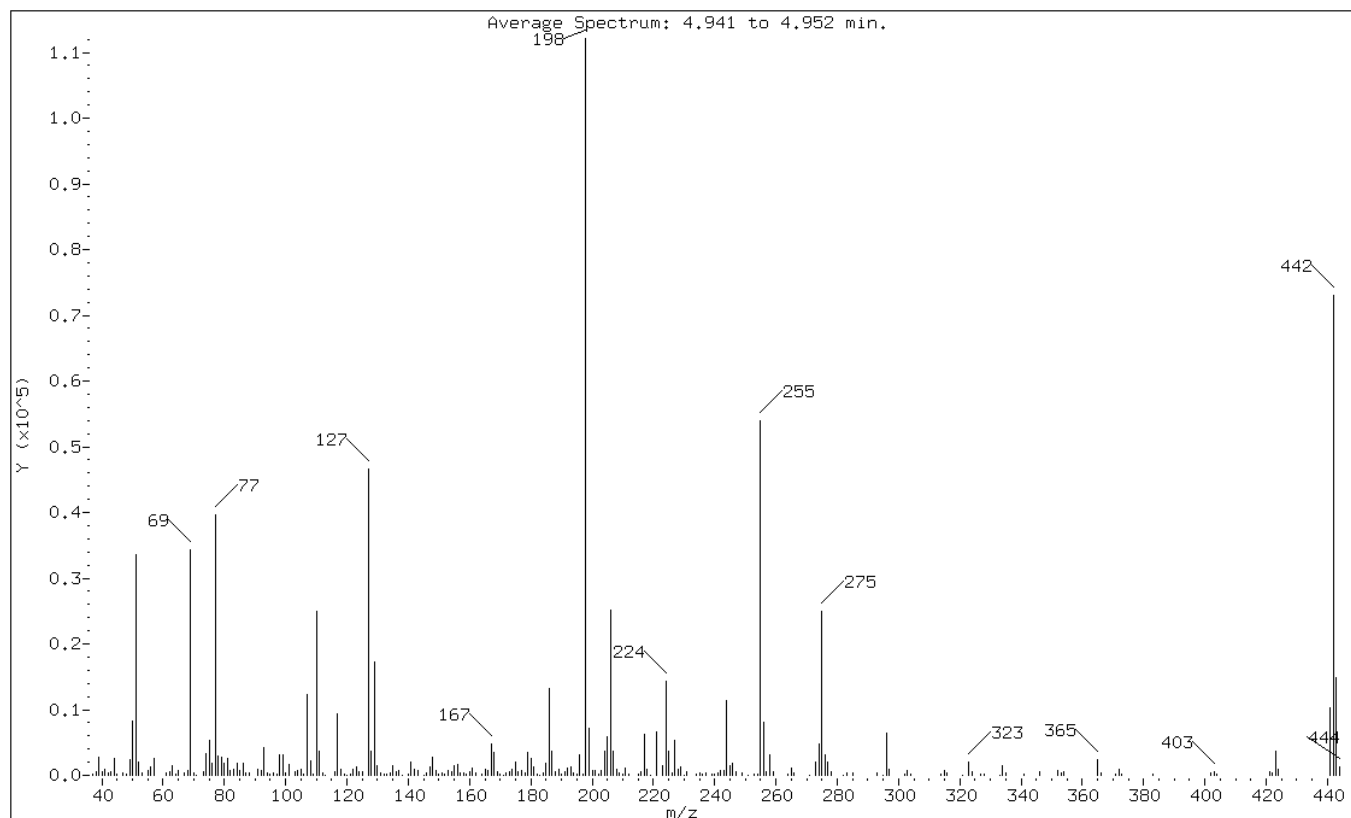
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	29.89
68	Less than 2.00% of mass 69	0.59 (1.93)
69	Mass 69 relative abundance	30.68
70	Less than 2.00% of mass 69	0.39 (1.26)
127	10.00 - 80.00% of mass 198	41.55
197	Less than 2.00% of mass 198	0.18
442	Greater than 50.00% of mass 198	65.21
199	5.00 - 9.00% of mass 198	6.35
275	10.00 - 60.00% of mass 198	22.30
365	Greater than 1.00% of mass 198	2.21
441	Present, but less than mass 443	9.11
443	15.00 - 24.00% of mass 442	13.28 (20.37)

Data File: 1AD10002.D

Date: 10-APR-2013 12:19

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10002.D
Spectrum: Average Spectrum: 4.941 to 4.952 min.
Location of Maximum: 198.00
Number of points: 250

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	119	110.00	24912	179.00	3507	251.00	84
38.00	490	111.00	3661	180.00	2537	253.00	261
39.00	2821	112.00	383	181.00	1193	254.00	184
40.00	583	113.00	87	182.00	241	255.00	53944
41.00	965	116.00	607	183.00	87	256.00	8040
42.00	306	117.00	9389	184.00	291	257.00	547
43.00	507	118.00	943	185.00	1762	258.00	3106
44.00	2642	119.00	94	186.00	13286	259.00	491
45.00	195	120.00	88	187.00	3652	264.00	93
47.00	387	121.00	107	188.00	543	265.00	1088
48.00	106	122.00	828	189.00	989	266.00	304
49.00	2438	123.00	1346	190.00	92	271.00	86
50.00	8167	124.00	549	191.00	470	273.00	1931
51.00	33512	125.00	513	192.00	1188	274.00	4768
52.00	1979	127.00	46576	193.00	1286	275.00	25000
53.00	297	128.00	3671	194.00	380	276.00	3039
55.00	779	129.00	17232	195.00	98	277.00	1954
56.00	1372	130.00	1413	196.00	3108	278.00	475
57.00	2482	131.00	381	197.00	199	282.00	87
61.00	401	132.00	106	198.00	112120	283.00	395
62.00	498	133.00	93	199.00	7125	285.00	329
63.00	1465	134.00	441	200.00	668	293.00	404
64.00	122	135.00	1462	201.00	686	295.00	89
65.00	751	136.00	485	202.00	101	296.00	6333
67.00	442	137.00	806	203.00	815	297.00	914
68.00	665	138.00	88	204.00	3621	302.00	107
69.00	34392	140.00	105	205.00	5928	303.00	813
70.00	433	141.00	2018	206.00	25208	304.00	154
71.00	85	142.00	836	207.00	3581	314.00	273
73.00	500	143.00	651	208.00	992	315.00	743
74.00	3269	145.00	89	209.00	388	316.00	306
75.00	5378	146.00	391	210.00	210	321.00	91
76.00	1744	147.00	1226	211.00	1177	323.00	2088
77.00	39720	148.00	2772	212.00	152	324.00	467
78.00	2940	149.00	699	215.00	111	327.00	256
79.00	2767	150.00	131	216.00	587	328.00	106
80.00	1746	151.00	361	217.00	6255	333.00	91
81.00	2658	152.00	196	218.00	916	334.00	1420
82.00	774	153.00	656	219.00	89	335.00	300
83.00	874	154.00	559	221.00	6674	341.00	172

84.00	1785	155.00	1424	223.00	1529	346.00	461
85.00	701	156.00	1694	224.00	14314	352.00	719
86.00	1873	157.00	449	225.00	3658	353.00	383
87.00	353	158.00	383	226.00	383	354.00	589
88.00	405	159.00	234	227.00	5398	365.00	2474
91.00	885	160.00	563	228.00	852	366.00	397
92.00	746	161.00	1140	229.00	1330	371.00	100
93.00	4166	162.00	352	230.00	84	372.00	933
94.00	395	164.00	102	231.00	585	373.00	148
95.00	138	165.00	885	234.00	194	383.00	225
96.00	330	166.00	663	235.00	373	402.00	441
97.00	117	167.00	4810	236.00	267	403.00	578
98.00	3057	168.00	3461	237.00	456	404.00	238
99.00	3074	169.00	466	239.00	205	421.00	486
100.00	308	170.00	100	240.00	95	422.00	342
101.00	1733	171.00	85	241.00	419	423.00	3617
103.00	466	172.00	447	242.00	777	424.00	952
104.00	802	173.00	589	243.00	755	441.00	10211
105.00	956	174.00	985	244.00	11369	442.00	73112
106.00	153	175.00	1985	245.00	1531	443.00	14895
107.00	12328	176.00	638	246.00	1923	444.00	1370
108.00	2150	177.00	803	247.00	468		
109.00	183	178.00	329	249.00	421		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 02-APR-2013 11:31
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
					ON-COL	FINAL			
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====		=====
1 dftpp					CAS #: 5074-71-5				
7.310	7.469	-0.159	198	70432			50.00-	0.00	100.00
7.310	7.469	-0.159	51	24576			10.00-	80.00	34.89
7.310	7.469	-0.159	68	571			0.00-	2.00	1.62
7.310	7.469	-0.159	69	35176			0.00-	0.00	49.94
7.310	7.469	-0.159	70	308			0.00-	2.00	0.88
7.310	7.469	-0.159	127	29688			10.00-	80.00	42.15
7.310	7.469	-0.159	197	310			0.00-	2.00	0.44
7.310	7.469	-0.159	442	39944			50.00-	0.00	56.71
7.310	7.469	-0.159	199	5383			5.00-	9.00	7.64
7.310	7.469	-0.159	275	15117			10.00-	60.00	21.46
7.310	7.469	-0.159	365	2390			1.00-	0.00	3.39
7.310	7.469	-0.159	441	7169			0.01-	99.99	92.67
7.310	7.469	-0.159	443	7736			15.00-	24.00	19.37

Data File: 1CD02002.D

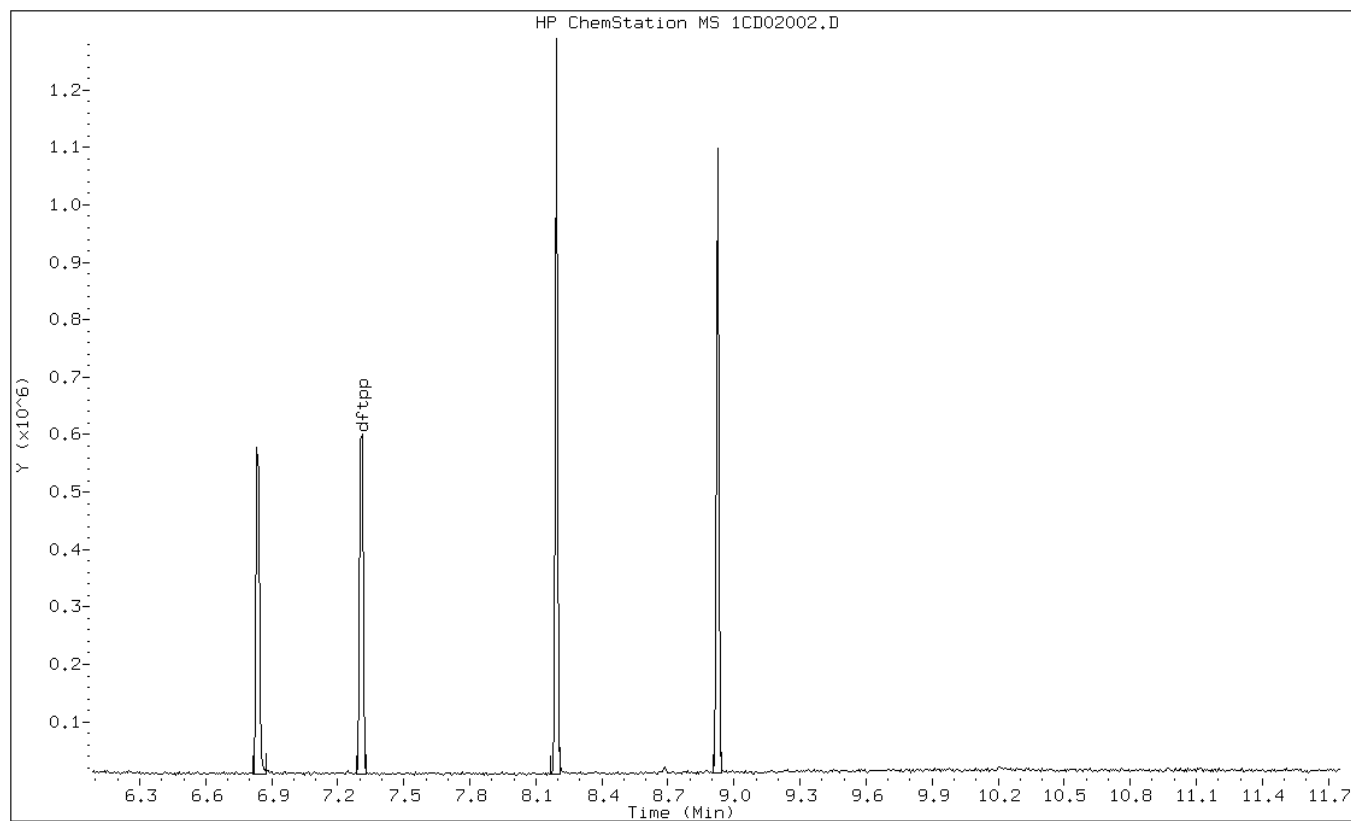
Date: 02-APR-2013 11:31

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD02002.D

Date: 02-APR-2013 11:31

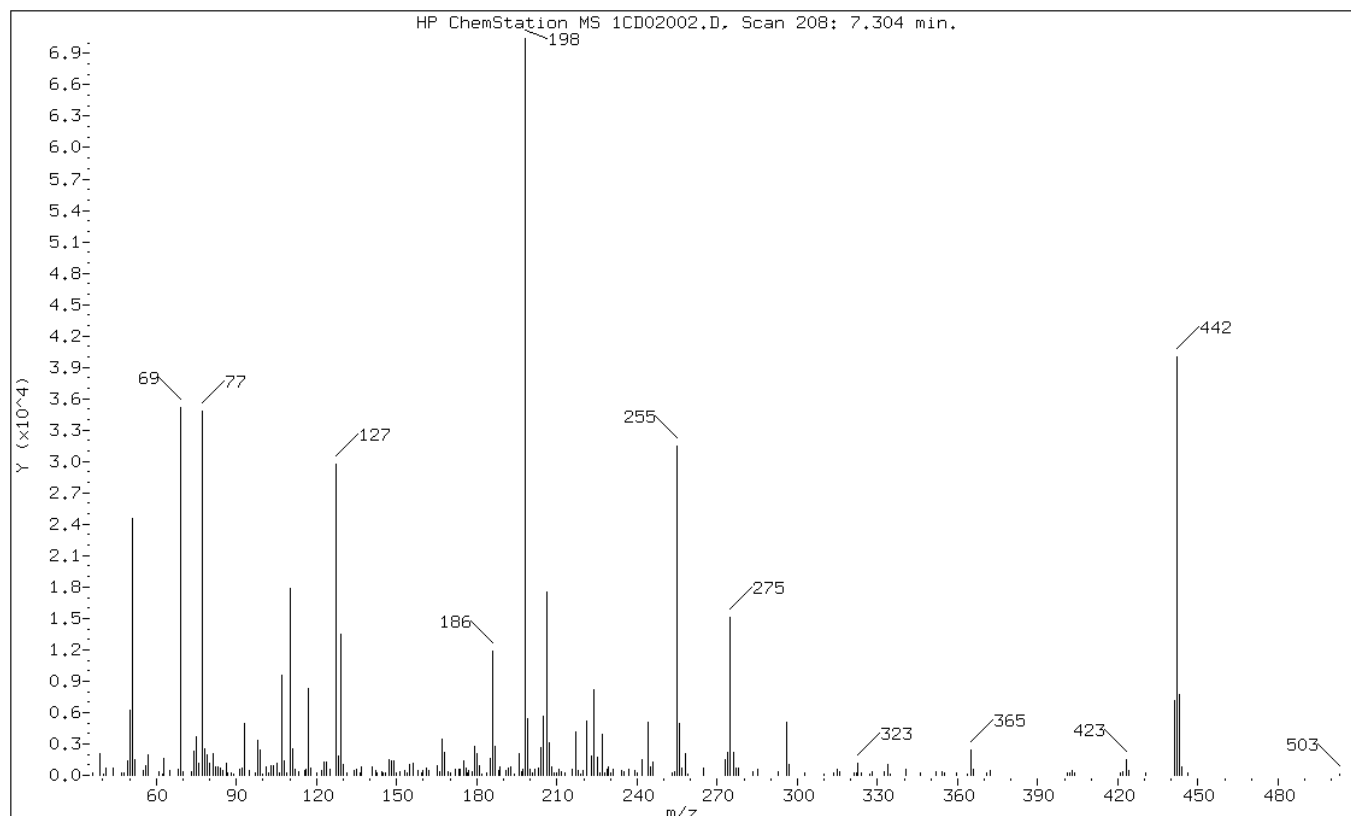
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.89
68	Less than 2.00% of mass 69	0.81 (1.62)
69	Mass 69 relative abundance	49.94
70	Less than 2.00% of mass 69	0.44 (0.88)
127	10.00 - 80.00% of mass 198	42.15
197	Less than 2.00% of mass 198	0.44
442	Greater than 50.00% of mass 198	56.71
199	5.00 - 9.00% of mass 198	7.64
275	10.00 - 60.00% of mass 198	21.46
365	Greater than 1.00% of mass 198	3.39
441	Present, but less than mass 443	10.18
443	15.00 - 24.00% of mass 442	10.98 (19.37)

Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213_PAHIC.b\1CD02002.D
Spectrum: HP ChemStation MS 1CD02002.D, Scan 208: 7.304 min.
Location of Maximum: 198.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	191	113.10	351	185.10	1649	258.00	2060
39.00	2089	115.80	410	186.00	11880	259.00	166
40.10	156	116.20	563	187.00	2755	265.00	700
41.20	672	117.00	8338	188.30	505	273.00	1556
44.00	691	118.00	714	188.80	850	274.00	2191
46.90	264	120.20	251	190.90	451	275.00	15117
48.00	207	122.00	433	192.00	717	276.10	2178
49.10	1329	122.90	1302	192.90	774	276.90	747
50.10	6281	123.80	1270	193.90	161	278.10	714
51.10	24576	125.10	560	195.90	2063	283.20	367
52.10	1487	127.10	29688	196.70	310	285.10	604
55.00	486	128.00	1837	197.10	545	293.00	386
56.10	964	129.10	13517	198.00	70432	296.00	5053
57.00	1965	130.00	1041	199.00	5383	297.00	1014
60.80	304	131.20	273	200.10	567	302.80	285
62.30	156	134.00	480	200.60	270	310.10	151
63.00	1637	134.90	620	201.50	554	313.70	217
65.00	481	136.20	200	203.00	654	315.00	561
68.10	571	137.00	811	204.10	2706	316.00	397
69.00	35176	140.90	765	205.10	5687	321.20	252
69.90	308	142.10	410	206.10	17552	322.00	188
73.00	304	142.70	282	207.10	3108	322.80	1174
74.10	2331	144.30	362	208.00	798	324.00	267
75.00	3676	145.00	189	208.90	282	327.10	153
76.00	1155	145.90	247	210.00	219	328.20	395
77.10	34856	147.10	1448	210.90	584	332.70	292
78.10	2489	148.00	1427	211.50	320	333.90	1034
79.10	1952	149.00	1344	213.00	214	334.60	151
80.10	1105	150.00	235	215.70	551	340.80	534
81.10	2019	151.00	357	217.00	4128	346.10	272
82.00	853	153.00	443	217.90	509	352.10	376
83.00	779	153.90	266	218.80	152	354.20	383
83.80	657	155.00	984	219.60	431	354.90	200
84.90	486	156.00	1110	221.00	5183	359.50	267
86.10	1181	157.80	502	223.10	1793	363.80	168
86.90	260	159.30	205	224.00	8192	365.00	2390
88.00	245	159.90	477	225.20	1759	365.90	597
89.10	155	161.10	679	226.10	240	370.80	193
91.10	583	162.00	441	227.00	3893	372.00	411
92.10	667	165.10	934	227.90	218	401.00	218

93.00	5005	166.00	385	228.70	623	402.10	194
95.00	495	167.00	3405	229.10	783	402.90	407
96.90	195	168.00	2215	230.00	287	403.80	197
98.00	3343	169.20	374	231.10	622	420.70	267
99.00	2408	170.30	186	234.00	423	421.10	211
+-----+-----+-----+-----+-----+-----+-----+-----+							
100.00	162	172.10	634	234.90	390	422.00	318
101.00	782	173.10	602	236.90	598	423.00	1535
102.10	189	173.70	532	239.10	486	424.00	439
103.10	884	175.10	1337	240.10	221	430.30	186
104.00	939	176.00	727	242.00	1442	441.00	7169
+-----+-----+-----+-----+-----+-----+-----+-----+							
105.00	1194	176.60	217	244.10	5072	442.00	39944
106.00	180	177.10	501	245.20	829	443.00	7736
107.00	9612	178.10	387	246.00	1322	444.00	786
108.00	1350	179.00	2811	253.10	269	446.00	182
109.00	183	180.10	2065	254.10	289	503.00	171
+-----+-----+-----+-----+-----+-----+-----+-----+							
110.00	17856	181.00	967	255.00	31424		
111.00	2511	181.80	164	256.00	4972		
112.10	622	183.90	209	256.90	650		
+-----+-----+-----+-----+-----+-----+-----+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 10-APR-2013 11:53
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5					
7.274	7.469	-0.195	198	74016			50.00-	0.00	100.00
7.274	7.469	-0.195	51	29368			10.00-	80.00	39.68
7.274	7.469	-0.195	68	320			0.00-	2.00	0.87
7.274	7.469	-0.195	69	36584			0.00-	0.00	49.43
7.274	7.469	-0.195	70	0	0.0	0.0	0.00-	2.00	0.00
7.274	7.469	-0.195	127	34560			10.00-	80.00	46.69
7.274	7.469	-0.195	197	775			0.00-	2.00	1.05
7.274	7.469	-0.195	442	50880			50.00-	0.00	68.74
7.274	7.469	-0.195	199	5085			5.00-	9.00	6.87
7.274	7.469	-0.195	275	14724			10.00-	60.00	19.89
7.274	7.469	-0.195	365	3333			1.00-	0.00	4.50
7.274	7.469	-0.195	441	9455			0.01-	99.99	98.91
7.274	7.469	-0.195	443	9559			15.00-	24.00	18.79

Data File: 1CD10002.D

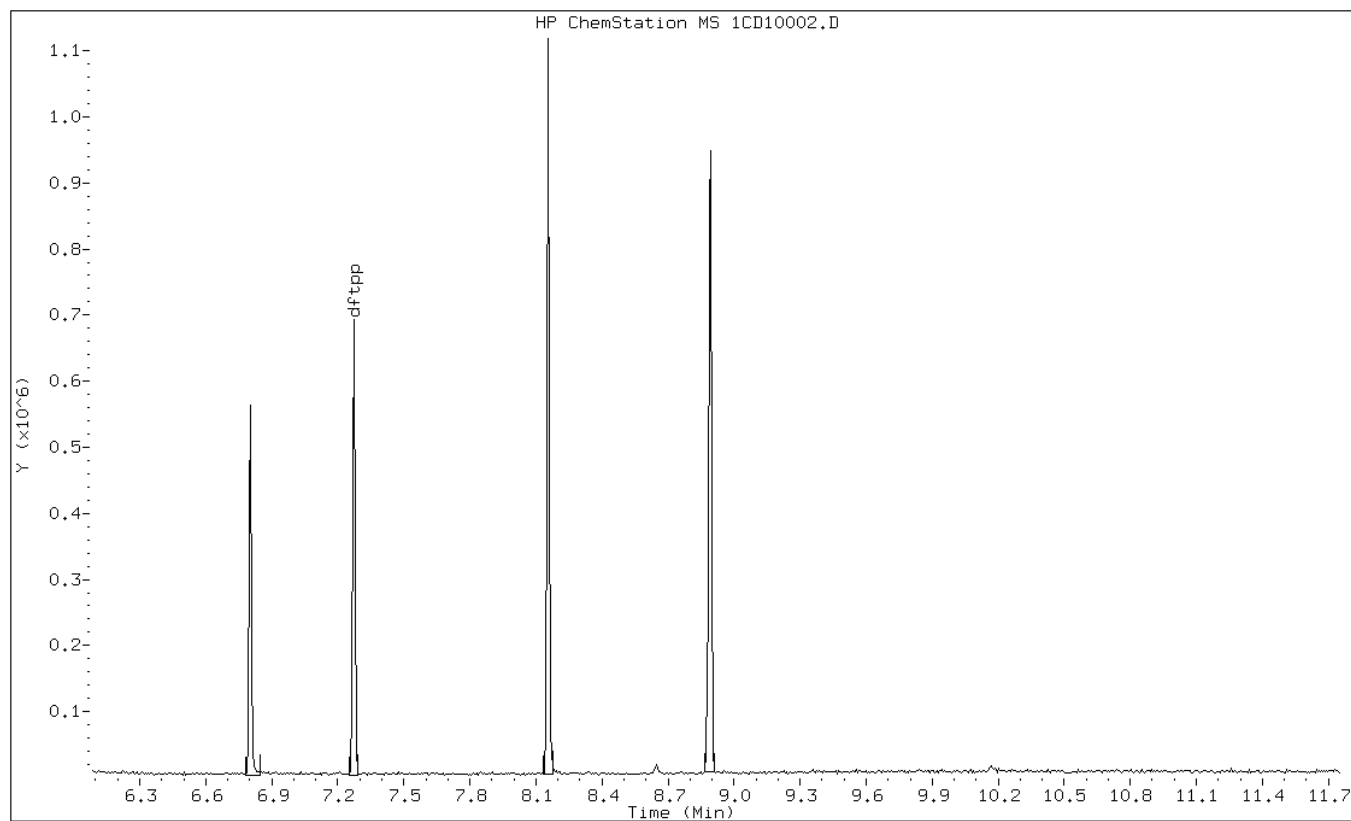
Date: 10-APR-2013 11:53

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD10002.D

Date: 10-APR-2013 11:53

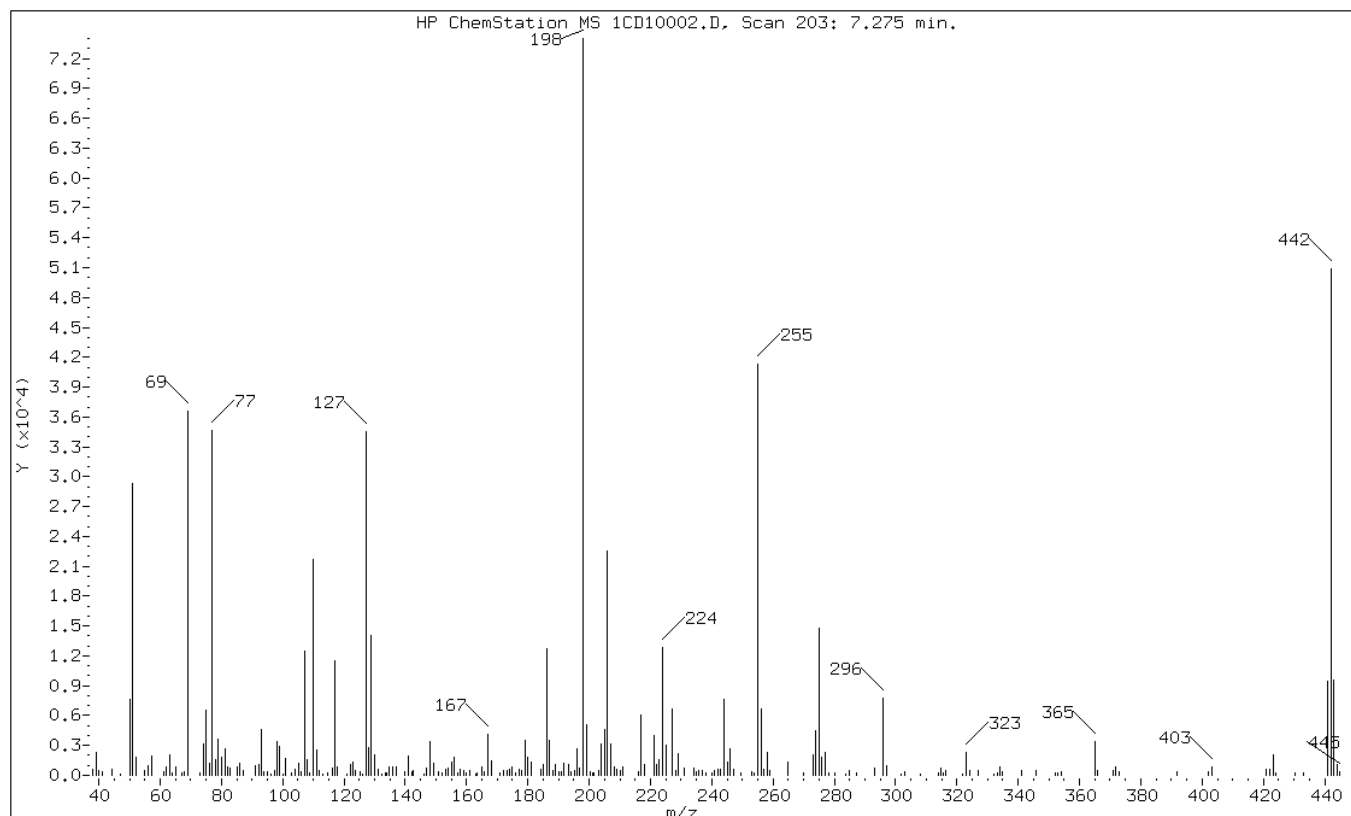
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

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	39.68
68	Less than 2.00% of mass 69	0.43 (0.87)
69	Mass 69 relative abundance	49.43
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	46.69
197	Less than 2.00% of mass 198	1.05
442	Greater than 50.00% of mass 198	68.74
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 60.00% of mass 198	19.89
365	Greater than 1.00% of mass 198	4.50
441	Present, but less than mass 443	12.77
443	15.00 - 24.00% of mass 442	12.91 (18.79)

Data File: 1CD10002.D

Date: 10-APR-2013 11:53

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10002.D
Spectrum: HP ChemStation MS 1CD10002.D, Scan 203: 7.275 min.
Location of Maximum: 198.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	588	117.00	11552	187.10	3456	265.00	1361
39.10	2283	118.00	865	188.10	451	269.90	182
40.00	436	121.00	158	189.10	1045	273.10	2109
41.00	367	122.10	1037	190.30	359	274.00	4514
44.10	612	123.10	1390	191.10	324	275.00	14724
47.10	165	123.90	544	191.90	1179	276.00	1786
50.10	7573	125.20	377	193.10	1042	277.00	2360
51.10	29368	126.00	174	193.90	344	278.10	229
52.20	1822	127.10	34560	195.30	427	280.30	183
55.10	485	128.00	2734	196.00	2710	283.70	172
56.00	1009	129.00	14094	197.00	775	285.00	506
57.10	1969	130.00	2008	198.00	74016	287.10	197
61.00	357	131.10	561	199.00	5085	293.10	696
61.90	839	132.20	181	200.20	364	296.00	7743
63.00	2029	133.70	236	201.00	199	297.00	920
63.90	206	134.10	210	201.60	228	301.80	155
65.10	799	134.90	795	203.10	494	302.90	410
67.10	292	135.90	796	204.10	3201	307.90	170
67.80	320	136.90	795	205.00	4579	313.80	207
69.10	36584	140.00	324	206.00	22512	314.80	673
73.00	272	141.00	1920	207.00	3181	315.70	295
74.10	3103	142.10	375	208.10	906	316.20	468
75.10	6509	142.70	541	209.00	626	321.90	170
76.00	1244	146.20	174	210.30	521	323.10	2294
77.10	34696	147.00	681	211.10	788	324.20	438
78.10	1525	148.00	3382	215.90	358	327.00	429
79.00	3606	149.10	1170	217.00	6035	332.00	155
80.00	1792	150.90	304	218.00	1106	333.10	228
81.10	2669	152.20	185	221.10	3994	334.00	824
82.00	851	153.00	550	221.90	1066	335.00	373
83.00	683	154.10	768	222.90	1605	341.00	487
85.10	833	155.20	1295	224.00	12896	345.90	518
86.10	1248	156.00	1788	225.00	3054	352.00	236
87.00	540	157.00	297	227.00	6635	352.90	263
91.10	965	158.00	572	228.10	471	354.00	312
92.10	1037	158.90	495	229.00	2185	365.10	3333
93.00	4551	159.90	292	230.90	751	365.80	474
93.90	344	161.00	440	234.10	720	370.90	468
95.20	334	162.90	179	235.00	337	371.90	880
96.10	157	163.40	245	235.90	433	373.10	322

97.20	470	164.90	837	236.80	442	391.90	344
98.00	3406	165.90	333	238.10	184	402.00	409
99.10	2905	167.00	4175	240.10	196	403.10	813
100.00	181	168.10	1414	241.00	507	420.90	613
101.00	1665	170.70	257	242.00	605	422.00	591
+-----+-----+-----+-----+-----+-----+-----+-----+							
103.00	241	172.00	474	242.90	562	423.10	2023
104.10	624	173.10	512	244.00	7599	424.10	286
105.10	1243	174.00	595	245.00	1393	430.30	264
106.20	404	175.00	881	246.00	2690	433.30	184
107.10	12444	176.10	291	247.10	611	441.10	9455
+-----+-----+-----+-----+-----+-----+-----+-----+							
108.10	1618	177.00	591	249.70	190	442.00	50880
108.90	279	178.10	490	253.20	383	443.00	9559
110.00	21720	179.00	3472	253.90	265	444.00	1143
111.00	2561	180.00	1837	255.00	41368	444.90	333
111.90	536	181.10	1372	256.10	6633		
+-----+-----+-----+-----+-----+-----+-----+-----+							
112.90	159	184.20	644	257.00	613		
114.70	215	184.90	1094	258.00	2242		
116.10	683	186.10	12736	259.00	509		
+-----+-----+-----+-----+-----+-----+-----+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 04-APR-2013 12:15
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\d-dftpp198.m
 Meth Date : 08-Jan-2013 12:23 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		FINAL					
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5					
8.382	8.532	-0.150	198	72572			50.00-	0.00	100.00
8.382	8.532	-0.150	51	32556			10.00-	80.00	44.86
8.382	8.532	-0.150	68	0	0.0	0.0	0.00-	2.00	0.00
8.382	8.532	-0.150	69	32936			0.00-	0.00	45.38
8.382	8.532	-0.150	70	114			0.00-	2.00	0.35
8.382	8.532	-0.150	127	36680			10.00-	80.00	50.54
8.382	8.532	-0.150	197	0	0.0	0.0	0.00-	2.00	0.00
8.382	8.532	-0.150	442	48716			50.00-	0.00	67.13
8.382	8.532	-0.150	199	4977			5.00-	9.00	6.86
8.382	8.532	-0.150	275	19350			10.00-	60.00	26.66
8.382	8.532	-0.150	365	2279			1.00-	0.00	3.14
8.382	8.532	-0.150	441	2370			0.01-	99.99	23.58
8.382	8.532	-0.150	443	10052			15.00-	24.00	20.63

Data File: 1DD04003.D

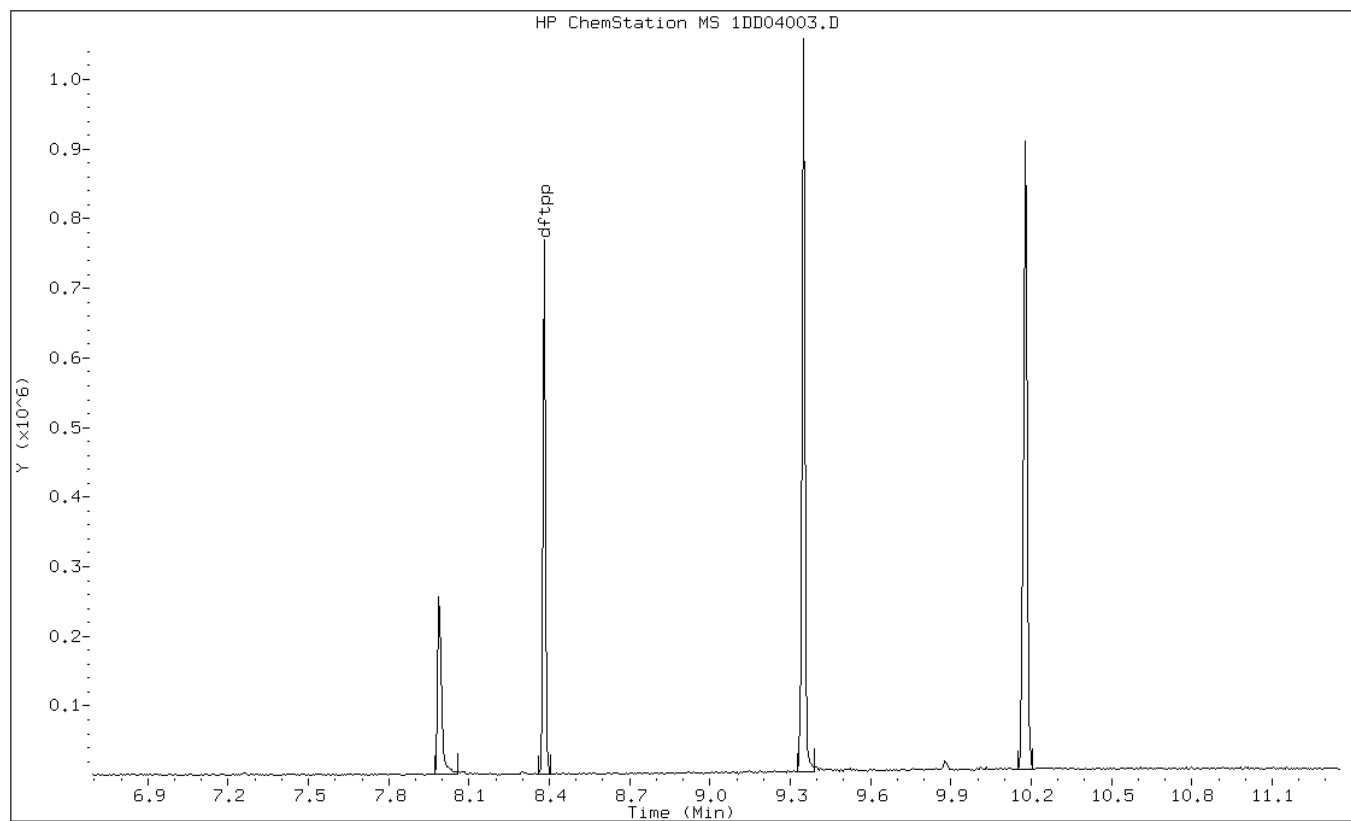
Date: 04-APR-2013 12:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD04003.D

Date: 04-APR-2013 12:15

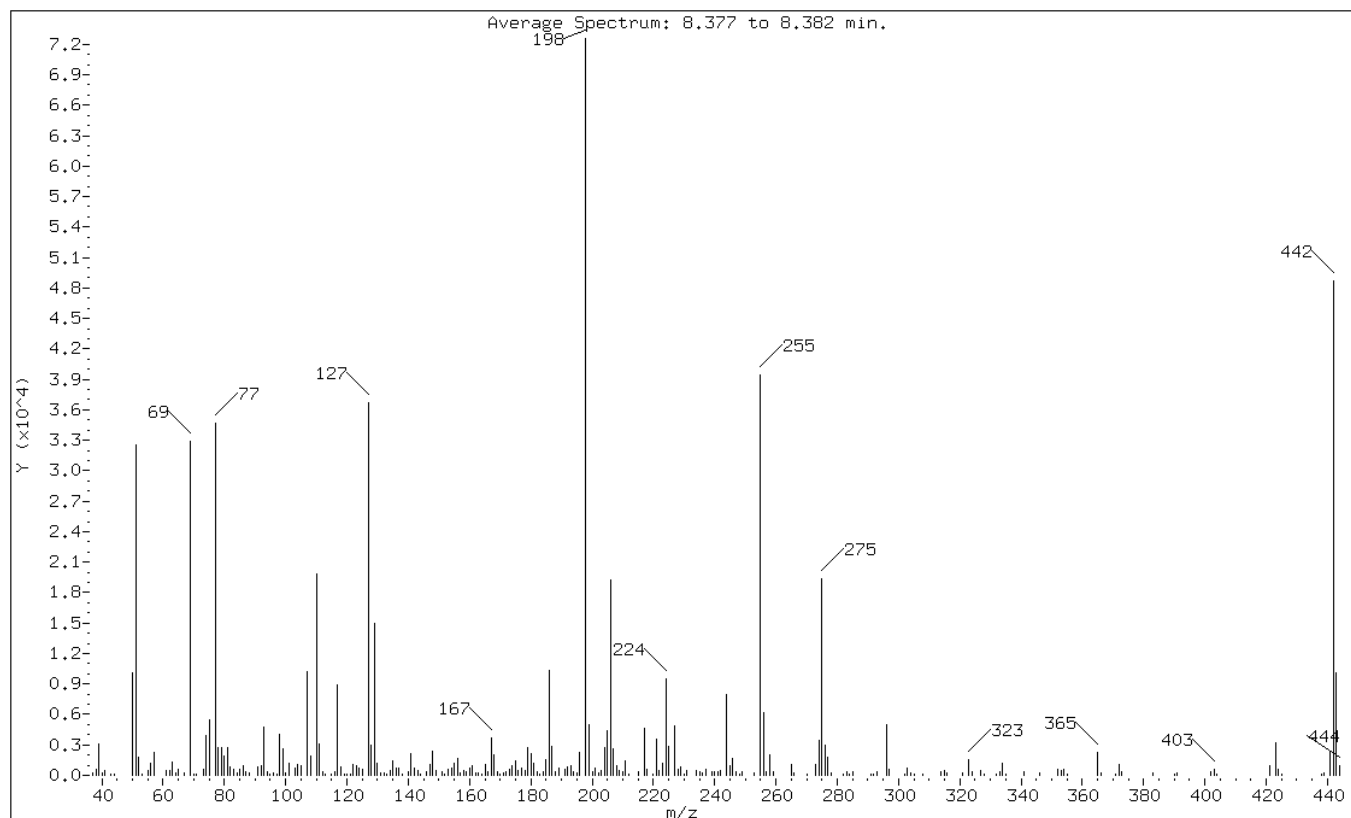
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

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	44.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	45.38
70	Less than 2.00% of mass 69	0.16 (0.35)
127	10.00 - 80.00% of mass 198	50.54
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.13
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 60.00% of mass 198	26.66
365	Greater than 1.00% of mass 198	3.14
441	Present, but less than mass 443	3.27
443	15.00 - 24.00% of mass 442	13.85 (20.63)

Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
Spectrum: Average Spectrum: 8.377 to 8.382 min.
Location of Maximum: 198.00
Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	274	119.00	120	185.00	1517	270.00	78
38.00	589	120.00	118	186.00	10284	273.00	1081
39.00	3038	121.00	77	187.00	2888	274.00	3485
40.00	277	122.00	1015	188.00	332	275.00	19344
41.00	463	123.00	946	189.00	735	276.00	2999
43.00	124	124.00	666	191.00	579	277.00	1839
44.00	117	125.00	567	192.00	873	278.00	226
50.00	10128	127.00	36680	193.00	975	282.00	81
51.00	32552	128.00	2957	194.00	335	283.00	314
52.00	1767	129.00	14951	195.00	275	284.00	90
53.00	85	130.00	1205	196.00	2233	285.00	356
55.00	420	131.00	194	198.00	72568	291.00	83
56.00	1176	132.00	206	199.00	4977	292.00	80
57.00	2213	133.00	92	200.00	323	293.00	412
61.00	490	134.00	523	201.00	663	296.00	5046
62.00	459	135.00	1404	202.00	210	297.00	576
63.00	1290	136.00	674	203.00	519	302.00	157
64.00	230	137.00	709	204.00	2685	303.00	675
65.00	539	138.00	79	205.00	4398	304.00	185
67.00	251	140.00	333	206.00	19200	305.00	82
69.00	32936	141.00	2082	207.00	2631	308.00	174
70.00	114	142.00	713	208.00	974	314.00	314
71.00	81	143.00	523	209.00	499	315.00	487
73.00	647	144.00	93	210.00	329	316.00	223
74.00	3962	146.00	312	211.00	1393	321.00	206
75.00	5478	147.00	1032	212.00	165	323.00	1494
77.00	34688	148.00	2326	215.00	308	324.00	410
78.00	2711	149.00	488	217.00	4596	327.00	476
79.00	2695	151.00	320	218.00	606	328.00	99
80.00	1923	152.00	103	220.00	76	332.00	111
81.00	2677	153.00	558	221.00	3596	333.00	396
82.00	777	154.00	665	222.00	431	334.00	1163
83.00	630	155.00	1227	223.00	1208	335.00	119
84.00	185	156.00	1628	224.00	9447	341.00	297
85.00	566	157.00	240	225.00	2804	346.00	197
86.00	895	158.00	430	227.00	4861	352.00	557
87.00	384	159.00	320	228.00	637	353.00	477
88.00	184	160.00	765	229.00	843	354.00	558
91.00	856	161.00	1005	230.00	115	355.00	81
92.00	893	162.00	279	231.00	446	365.00	2279

93.00	4736	163.00	190	234.00	485	366.00	181
94.00	298	164.00	105	235.00	402	371.00	117
95.00	167	165.00	1019	236.00	243	372.00	1076
96.00	240	166.00	344	237.00	537	373.00	335
97.00	178	167.00	3671	239.00	320	383.00	219
+-----+-----+-----+-----+-----+-----+-----+-----+							
98.00	4066	168.00	1997	240.00	333	390.00	136
99.00	2655	169.00	349	241.00	361	391.00	180
100.00	295	170.00	112	242.00	472	402.00	362
101.00	1142	171.00	208	244.00	7939	403.00	564
103.00	719	172.00	342	245.00	988	404.00	144
+-----+-----+-----+-----+-----+-----+-----+-----+							
104.00	1122	173.00	643	246.00	1619	421.00	961
105.00	909	174.00	893	247.00	381	423.00	3222
107.00	10195	175.00	1368	248.00	80	424.00	628
108.00	1940	176.00	519	249.00	382	425.00	87
110.00	19784	177.00	713	253.00	265	438.00	129
+-----+-----+-----+-----+-----+-----+-----+-----+							
111.00	3136	178.00	422	255.00	39432	439.00	214
112.00	374	179.00	2728	256.00	6151	441.00	2370
113.00	128	180.00	2151	257.00	340	442.00	48712
115.00	153	181.00	1200	258.00	2068	443.00	10052
116.00	393	182.00	314	259.00	399	444.00	994
+-----+-----+-----+-----+-----+-----+-----+-----+							
117.00	8897	183.00	98	265.00	1086		
118.00	800	184.00	382	266.00	282		
+-----+-----+-----+-----+-----+-----+-----+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11003.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 11-APR-2013 11:00
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\d-dftpp198.m
 Meth Date : 08-Jan-2013 12:23 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		FINAL					
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
8.370	8.532	-0.162	198	59500			50.00-	0.00	100.00
8.370	8.532	-0.162	51	28604			10.00-	80.00	48.07
8.370	8.532	-0.162	68	0	0.0	0.0	0.00-	2.00	0.00
8.370	8.532	-0.162	69	29416			0.00-	0.00	49.44
8.370	8.532	-0.162	70	0	0.0	0.0	0.00-	2.00	0.00
8.370	8.532	-0.162	127	30380			10.00-	80.00	51.06
8.370	8.532	-0.162	197	0	0.0	0.0	0.00-	2.00	0.00
8.370	8.532	-0.162	442	39716			50.00-	0.00	66.75
8.370	8.532	-0.162	199	4158			5.00-	9.00	6.99
8.370	8.532	-0.162	275	15824			10.00-	60.00	26.59
8.370	8.532	-0.162	365	2189			1.00-	0.00	3.68
8.370	8.532	-0.162	441	1359			0.01-	99.99	17.23
8.370	8.532	-0.162	443	7887			15.00-	24.00	19.86

Data File: 1DD11003.D

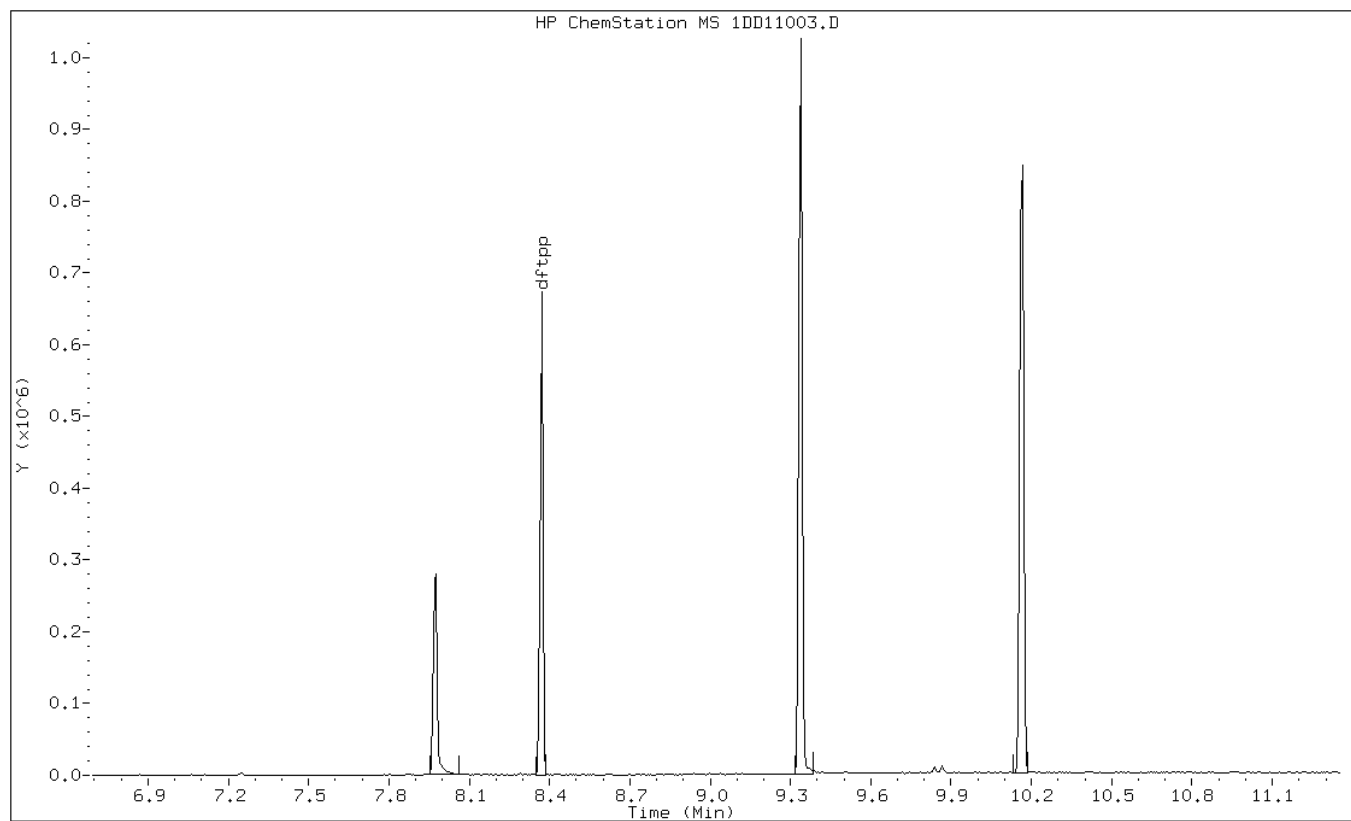
Date: 11-APR-2013 11:00

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD11003.D

Date: 11-APR-2013 11:00

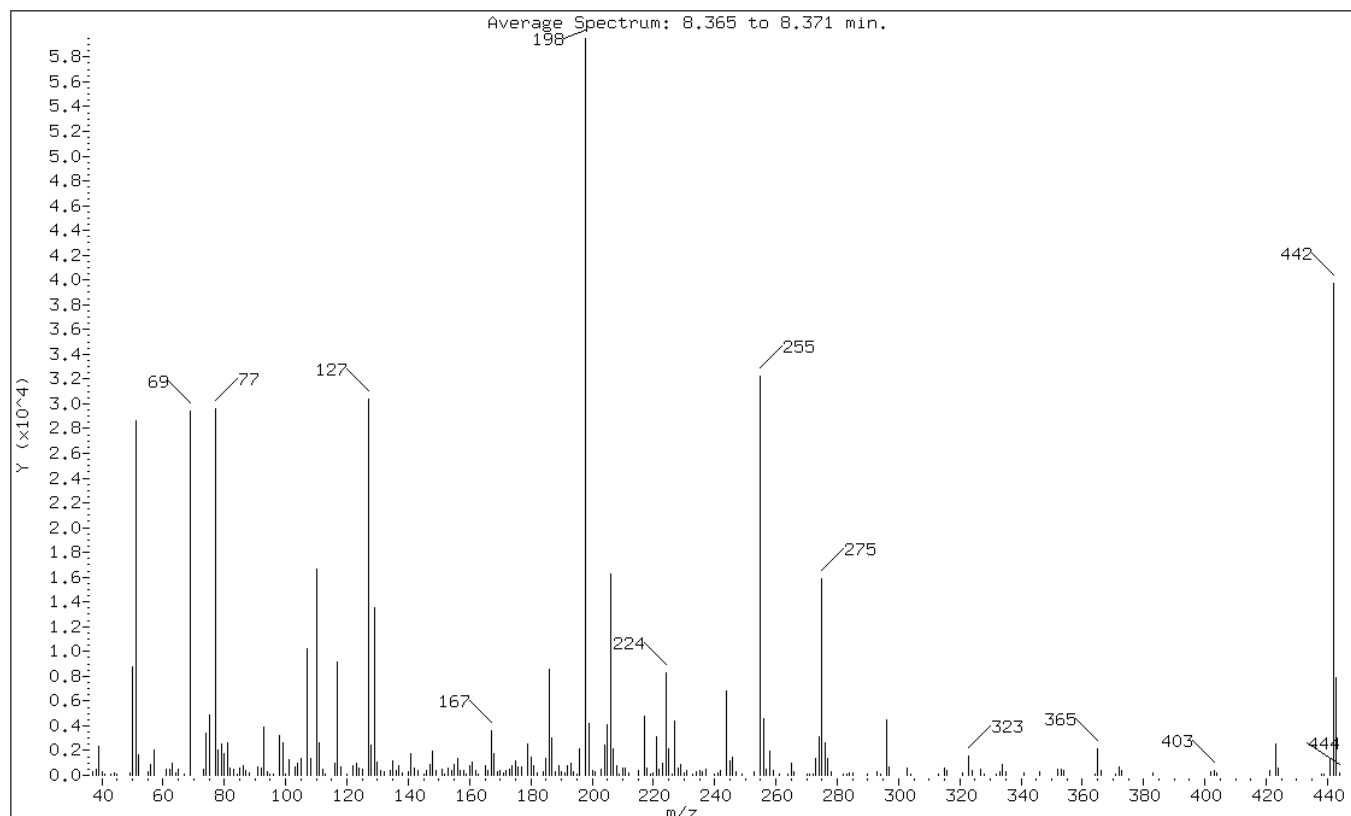
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

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	48.07
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.44
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	51.06
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	66.75
199	5.00 - 9.00% of mass 198	6.99
275	10.00 - 60.00% of mass 198	26.59
365	Greater than 1.00% of mass 198	3.68
441	Present, but less than mass 443	2.28
443	15.00 - 24.00% of mass 442	13.26 (19.86)

Data File: 1DD11003.D

Date: 11-APR-2013 11:00

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11003.D
Spectrum: Average Spectrum: 8.365 to 8.371 min.
Location of Maximum: 198.00
Number of points: 236

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	266	122.00	748	190.00	259	270.00	81
38.00	486	123.00	976	191.00	233	271.00	119
39.00	2317	124.00	548	192.00	822	272.00	85
40.00	244	125.00	480	193.00	936	273.00	1329
41.00	110	127.00	30376	194.00	259	274.00	3159
43.00	102	128.00	2432	195.00	130	275.00	15824
44.00	203	129.00	13505	196.00	2134	276.00	2584
45.00	80	130.00	1110	198.00	59496	277.00	1353
49.00	239	131.00	381	199.00	4158	278.00	275
50.00	8756	132.00	325	200.00	364	282.00	88
51.00	28600	134.00	359	201.00	292	283.00	106
52.00	1694	135.00	1176	203.00	457	284.00	163
55.00	320	136.00	378	204.00	2436	285.00	239
56.00	828	137.00	792	205.00	4133	290.00	100
57.00	2027	138.00	218	206.00	16242	293.00	256
61.00	449	140.00	298	207.00	2186	294.00	86
62.00	455	141.00	1768	208.00	750	296.00	4469
63.00	1021	142.00	562	209.00	92	297.00	664
64.00	234	143.00	423	210.00	542	303.00	598
65.00	494	145.00	94	211.00	577	304.00	85
67.00	112	146.00	436	212.00	233	313.00	77
69.00	29416	147.00	919	215.00	362	315.00	559
73.00	441	148.00	1974	217.00	4752	316.00	343
74.00	3410	149.00	401	218.00	549	321.00	167
75.00	4828	151.00	448	219.00	109	323.00	1583
77.00	29632	152.00	77	220.00	161	324.00	346
78.00	2038	153.00	563	221.00	3128	327.00	456
79.00	2497	154.00	365	222.00	511	328.00	108
80.00	1798	155.00	897	223.00	949	332.00	95
81.00	2641	156.00	1400	224.00	8244	333.00	264
82.00	621	157.00	403	225.00	2153	334.00	844
83.00	512	158.00	428	226.00	146	335.00	275
84.00	103	159.00	126	227.00	4354	341.00	166
85.00	577	160.00	827	228.00	616	346.00	299
86.00	793	161.00	1050	229.00	888	352.00	512
87.00	425	162.00	350	230.00	188	353.00	530
88.00	207	163.00	116	231.00	410	354.00	403
91.00	665	165.00	811	233.00	108	364.00	87
92.00	555	166.00	398	234.00	286	365.00	2189
93.00	3858	167.00	3574	235.00	425	366.00	391

94.00	329	168.00	1729	236.00	282	371.00	90
95.00	80	169.00	322	237.00	455	372.00	664
96.00	97	170.00	357	240.00	95	373.00	381
98.00	3173	171.00	171	241.00	197	383.00	240
99.00	2642	172.00	341	242.00	402	402.00	337
+-----+							
100.00	117	173.00	528	244.00	6777	403.00	414
101.00	1258	174.00	797	245.00	1129	404.00	149
103.00	636	175.00	1215	246.00	1487	421.00	433
104.00	949	176.00	673	247.00	263	423.00	2561
105.00	1317	177.00	650	249.00	96	424.00	584
+-----+							
107.00	10256	179.00	2541	253.00	265	438.00	79
108.00	1351	180.00	1449	255.00	32200	439.00	86
110.00	16624	181.00	796	256.00	4589	441.00	1359
111.00	2645	182.00	162	257.00	504	442.00	39712
112.00	470	184.00	280	258.00	1954	443.00	7887
+-----+							
113.00	77	185.00	1323	259.00	412	444.00	155
116.00	958	186.00	8532	261.00	82		
117.00	9199	187.00	3002	264.00	139		
118.00	719	188.00	336	265.00	970		
120.00	137	189.00	814	266.00	292		
+-----+							

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-136235/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10005.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.18(g)</u>	Date Analyzed: <u>04/10/2013 13:12</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	4.9
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.3
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.3
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10005.D
 Lab Smp Id: mb 660-136235/1-a
 Inj Date : 10-APR-2013 13:12
 Operator : SCC
 Smp Info : mb 660-136235/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10005.D
 Meth Date : 10-Apr-2013 12:54 cantins
 Cal Date : 09-APR-2013 12:03
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000

Inst ID: BSMA5973.i

Quant Type: ISTD

Cal File: 1AD09009.D

QC Sample: BLANK

Compound Sublist: pah.sub

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.180	Weight Extracted
M	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	FINAL
							(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8		136	2.585	2.584	(1.000)	1715976	40.0000	
* 6 Acenaphthene-d10		164	3.616	3.615	(1.000)	934394	40.0000	
* 10 Phenanthrene-d10		188	4.567	4.571	(1.000)	1637997	40.0000	
\$ 14 o-Terphenyl		230	4.866	4.870	(1.065)	263815	7.89218	519.9061
* 18 Chrysene-d12		240	6.580	6.584	(1.000)	1740673	40.0000	
* 23 Perylene-d12		264	7.659	7.663	(1.000)	1753269	40.0000	

Data File: 1AD10005.D

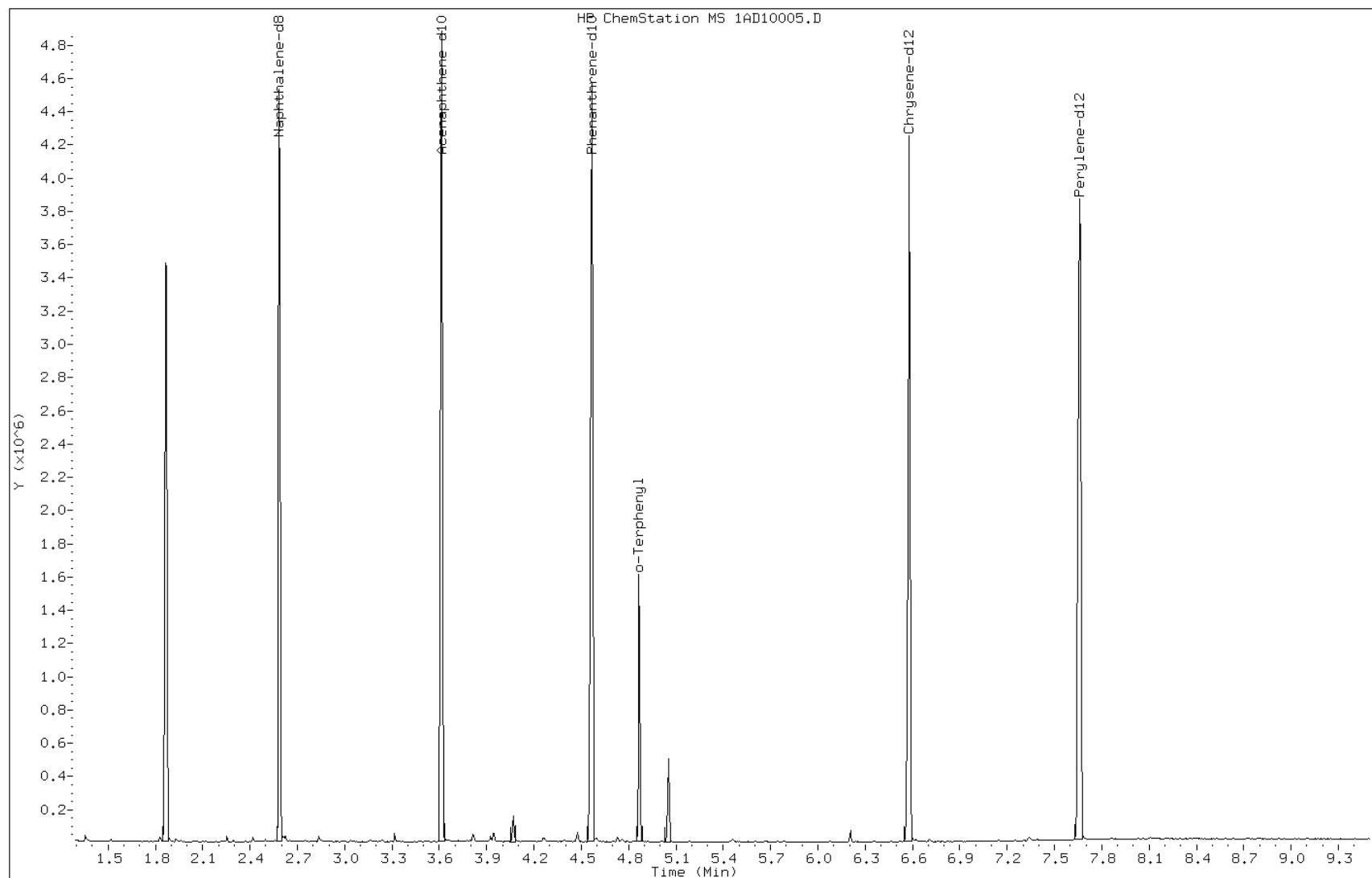
Date: 10-APR-2013 13:12

Client ID:

Instrument: BSMA5973.i

Sample Info: mb 660-136235/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Client Sample ID: _____ Lab Sample ID: MB 660-136268/1-A
 Matrix: Water Lab File ID: 1DD11006.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3520C Date Extracted: 04/09/2013 14:11
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/11/2013 12:06
 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.: 136371 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	86		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11006.D
 Lab Smp Id: MB 660-136268/1-A
 Inj Date : 11-APR-2013 12:06
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : MB 660-136268/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\dFASTPAHi.m
 Meth Date : 11-Apr-2013 11:40 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.072	6.078	(1.000)	2472165	40.0000		
*	6 Acenaphthene-d10	164	7.752	7.752	(1.000)	1543774	40.0000		
*	9 Phenanthrene-d10	188	9.009	9.016	(1.000)	2627806	40.0000		
\$	13 o-Terphenyl	230	9.321	9.327	(1.035)	339684	8.57915	8.6	
*	17 Chrysene-d12	240	11.324	11.331	(1.000)	2627621	40.0000		
*	22 Perylene-d12	264	13.146	13.158	(1.000)	2699742	40.0000		

Data File: 1DD11006.D

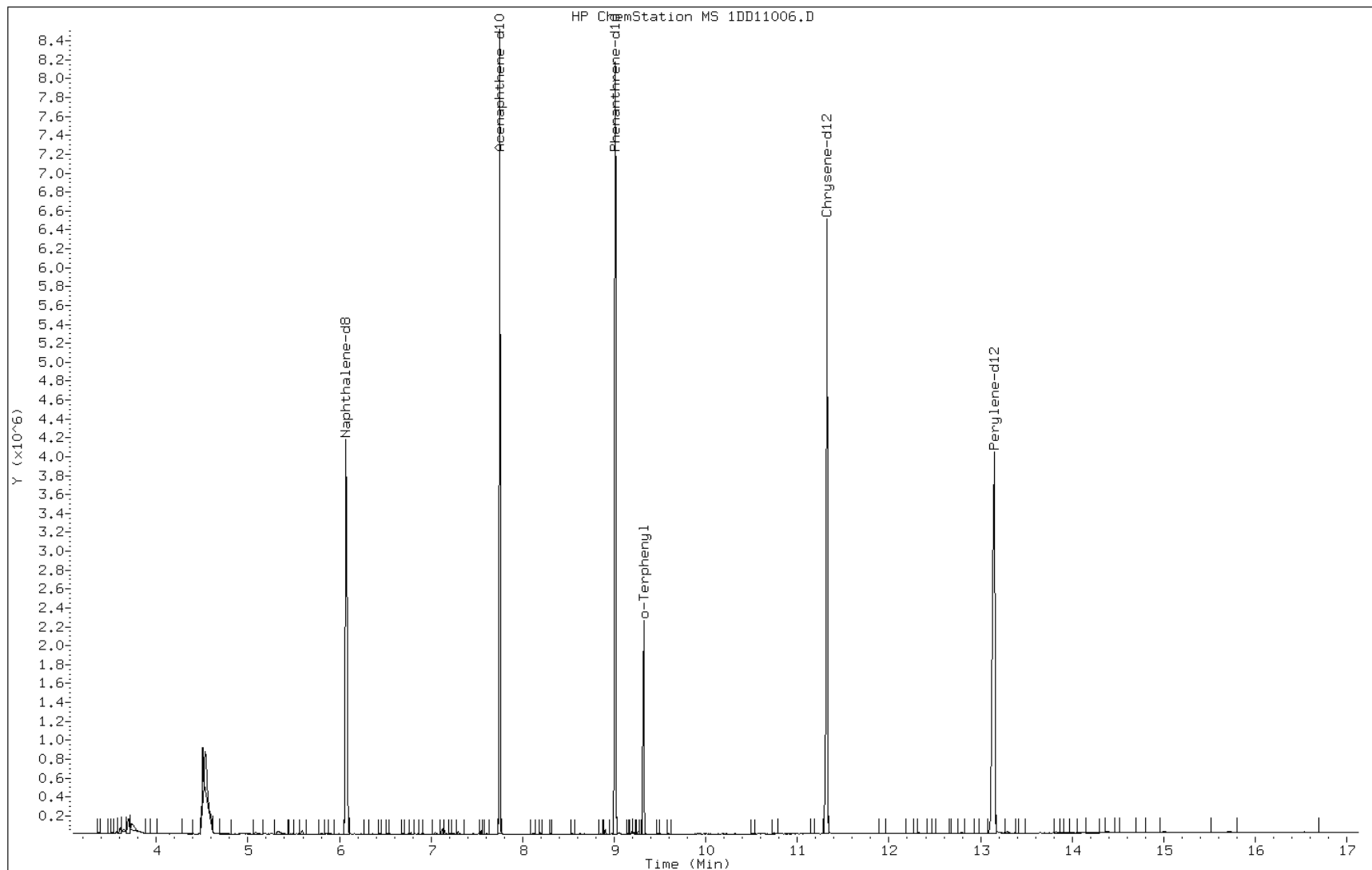
Date: 11-APR-2013 12:06

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-136268/1-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-136235/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10014.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.26(g)</u>	Date Analyzed: <u>04/10/2013 16:05</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	454		98	20
208-96-8	Acenaphthylene	520		39	4.9
120-12-7	Anthracene	482		8.3	4.1
56-55-3	Benzo[a]anthracene	522		7.9	3.8
50-32-8	Benzo[a]pyrene	466		10	5.1
205-99-2	Benzo[b]fluoranthene	486		12	6.0
191-24-2	Benzo[g,h,i]perylene	453		20	4.3
207-08-9	Benzo[k]fluoranthene	519		7.9	3.5
218-01-9	Chrysene	468		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	497		20	4.0
206-44-0	Fluoranthene	493		20	3.9
86-73-7	Fluorene	484		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	451		20	7.0
90-12-0	1-Methylnaphthalene	512		39	4.3
91-57-6	2-Methylnaphthalene	471		39	7.0
91-20-3	Naphthalene	452		39	4.3
85-01-8	Phenanthrene	436		7.9	3.8
129-00-0	Pyrene	525		20	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10014.D
Lab Smp Id: LCS 660-136235/2-A
Inj Date : 10-APR-2013 16:05
Operator : SCC
Smp Info : LCS 660-136235/2-A
Misc Info : RE-RUN FROM A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10014.D
Meth Date : 10-Apr-2013 12:25 cantins
Cal Date : 02-APR-2013 15:15
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Inst ID: BSMC5973.i

Quant Type: ISTD

Cal File: 1CD02011.D

QC Sample: LCS

Compound Sublist: pah.sub

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8		136	3.680	3.680	(1.000)	332649	40.0000	
* 6 Acenaphthene-d10		164	4.768	4.768	(1.000)	240730	40.0000	
* 10 Phenanthrene-d10		188	5.715	5.710	(1.000)	465300	40.0000	
\$ 14 o-Terphenyl		230	5.962	5.963	(1.043)	52850	7.68408	503.5436
* 18 Chrysene-d12		240	7.650	7.645	(1.000)	533002	40.0000	
* 23 Perylene-d12		264	8.821	8.809	(1.000)	494687	40.0000	
2 Naphthalene		128	3.692	3.692	(1.003)	58892	6.89278	451.6890
3 2-Methylnaphthalene		142	4.121	4.121	(1.120)	41796	7.18632	470.9252
4 1-Methylnaphthalene		142	4.180	4.180	(1.136)	40927	7.82048	512.4821
5 Acenaphthylene		152	4.680	4.680	(0.981)	79051	7.93428	519.9395
7 Acenaphthene		154	4.786	4.786	(1.004)	42751	6.92783	453.9863
9 Fluorene		166	5.109	5.104	(1.072)	60769	7.38705	484.0790
11 Phenanthrene		178	5.727	5.727	(1.002)	90257	6.66020	436.4481
12 Anthracene		178	5.762	5.763	(1.008)	100945	7.34816	481.5310

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.874	5.868	(1.028)	89837	7.63304	500.1993
15 Fluoranthene	202	6.562	6.557	(1.148)	112503	7.51717	492.6058
16 Pyrene	202	6.727	6.727	(0.879)	118255	8.00938	524.8609
17 Benzo(a)anthracene	228	7.645	7.639	(0.999)	121042	7.97326	522.4943
19 Chrysene	228	7.668	7.668	(1.002)	108395	7.13678	467.6787
20 Benzo(b)fluoranthene	252	8.480	8.474	(0.961)	103670	7.41283	485.7683
21 Benzo(k)fluoranthene	252	8.503	8.498	(0.964)	107046	7.91396	518.6080
22 Benzo(a)pyrene	252	8.768	8.756	(0.994)	93667	7.11390	466.1794
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.939	(1.128)	86146	6.88841	451.4033(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.950	(1.130)	87563	7.57955	496.6942
26 Benzo(g,h,i)perylene	276	10.291	10.280	(1.167)	88223	6.91198	452.9472

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD10014.D

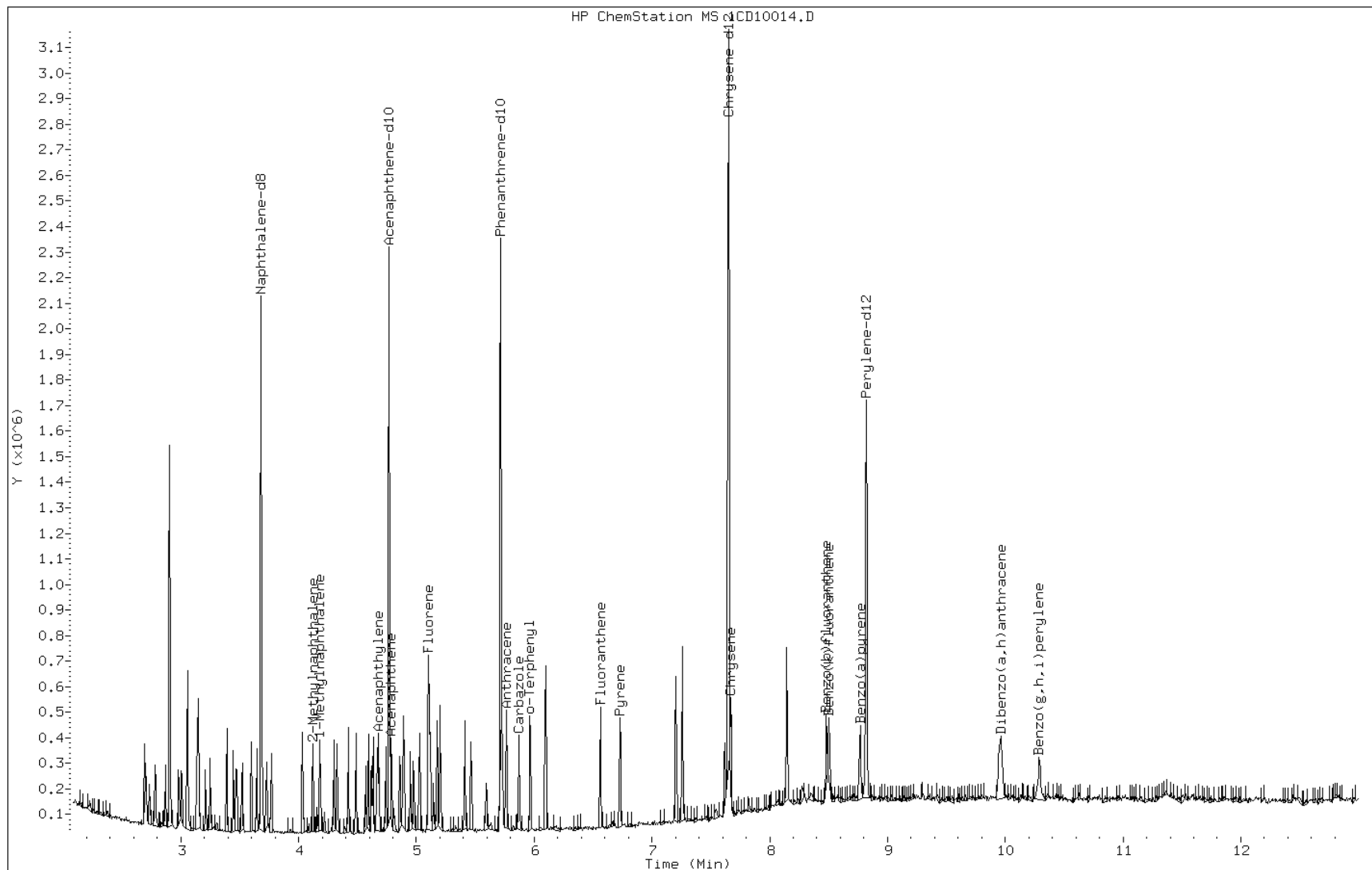
Date: 10-APR-2013 16:05

Client ID:

Instrument: BSMC5973.i

Sample Info: LCS 660-136235/2-A

Operator: SCC

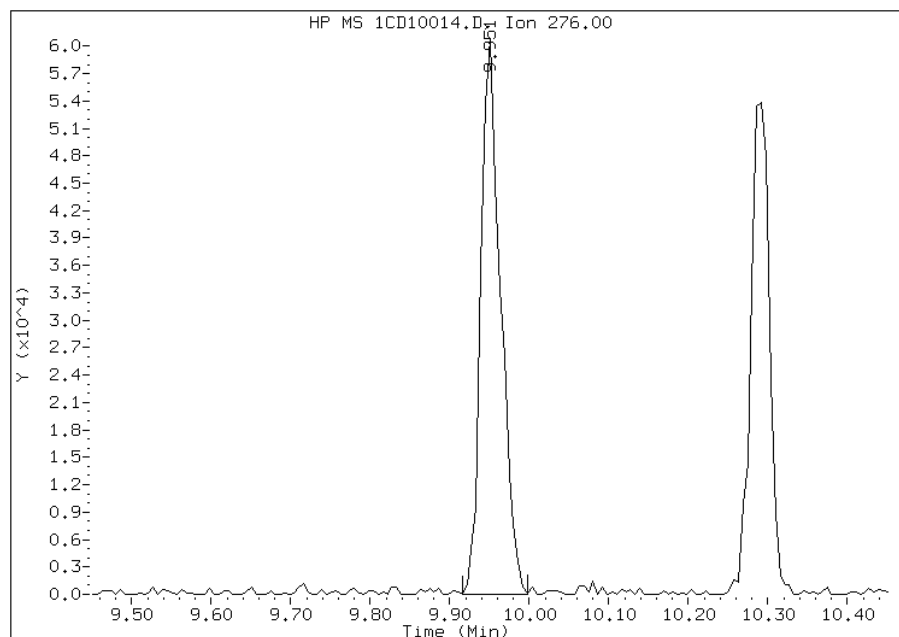


Manual Integration Report

Data File: 1CD10014.D
Inj. Date and Time: 10-APR-2013 16:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

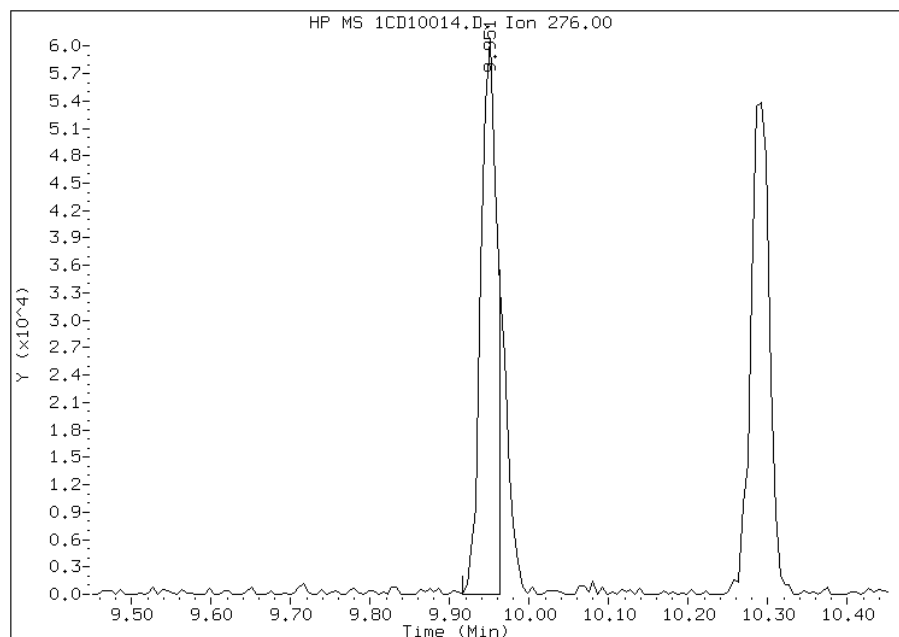
Processing Integration Results

RT: 9.95
Response: 104304
Amount: 8
Conc: 547



Manual Integration Results

RT: 9.95
Response: 86146
Amount: 7
Conc: 451



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 16:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
 SDG No.: 680088913-1
 Client Sample ID: _____ Lab Sample ID: LCS 660-136268/2-A
 Matrix: Water Lab File ID: 1DD11007.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3520C Date Extracted: 04/09/2013 14:11
 Sample wt/vol: 1000 (mL) Date Analyzed: 04/11/2013 12:28
 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.: 136371 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	8.24		2.0	0.50
208-96-8	Acenaphthylene	8.69		1.0	0.25
120-12-7	Anthracene	8.08		0.20	0.076
56-55-3	Benzo[a]anthracene	7.89		0.20	0.050
50-32-8	Benzo[a]pyrene	4.96		0.20	0.057
205-99-2	Benzo[b]fluoranthene	6.35		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	3.68		0.50	0.10
207-08-9	Benzo[k]fluoranthene	5.91		0.20	0.057
218-01-9	Chrysene	7.58		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	3.12		0.20	0.050
206-44-0	Fluoranthene	9.09		0.50	0.054
86-73-7	Fluorene	8.87		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	3.29		0.20	0.050
90-12-0	1-Methylnaphthalene	8.81		2.0	0.50
91-57-6	2-Methylnaphthalene	8.45		2.0	0.50
91-20-3	Naphthalene	8.39		2.0	0.25
85-01-8	Phenanthrene	8.48		0.50	0.20
129-00-0	Pyrene	8.18		0.50	0.089

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11007.D
 Lab Smp Id: LCS 660-136268/2-A
 Inj Date : 11-APR-2013 12:28
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : LCS 660-136268/2-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\dFASTPAHi.m
 Meth Date : 11-Apr-2013 11:40 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
							(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Naphthalene-d8		136	6.073	6.078	(1.000)	2457854	40.0000		
* 6 Acenaphthene-d10		164	7.753	7.752	(1.000)	1510366	40.0000		
* 9 Phenanthrene-d10		188	9.011	9.016	(1.000)	2568874	40.0000		
\$ 13 o-Terphenyl		230	9.322	9.327	(1.035)	325543	8.41062	8.4	
* 17 Chrysene-d12		240	11.326	11.331	(1.000)	2662442	40.0000		
* 22 Perylene-d12		264	13.147	13.158	(1.000)	2706462	40.0000		
2 Naphthalene		128	6.096	6.096	(1.004)	512604	8.39080	8.4	
3 2-Methylnaphthalene		142	6.796	6.801	(1.119)	333151	8.44783	8.4	
4 1-Methylnaphthalene		142	6.890	6.895	(1.134)	328134	8.81096	8.8	
5 Acenaphthylene		152	7.624	7.623	(0.983)	555805	8.69461	8.7	
7 Acenaphthene		154	7.777	7.782	(1.003)	324952	8.23520	8.2	
8 Fluorene		166	8.217	8.222	(1.060)	414600	8.87275	8.9	
10 Phenanthrene		178	9.028	9.033	(1.002)	599743	8.47588	8.5	
11 Anthracene		178	9.069	9.074	(1.007)	567797	8.08481	8.1	
12 Carbazole		167	9.204	9.215	(1.022)	513497	8.28924	8.3(M)	
14 Fluoranthene		202	10.009	10.014	(1.111)	662245	9.09499	9.1	
15 Pyrene		202	10.197	10.208	(0.900)	653817	8.17752	8.2	

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
16 Benzo(a)anthracene	228	11.302	11.313	(0.998)	607696	7.89456	7.9
18 Chrysene	228	11.349	11.354	(1.002)	547183	7.58117	7.6
19 Benzo(b)fluoranthene	252	12.600	12.611	(0.958)	428995	6.34532	6.3
20 Benzo(k)fluoranthene	252	12.636	12.653	(0.961)	420689	5.90645	5.9
21 Benzo(a)pyrene	252	13.041	13.064	(0.992)	336909	4.95962	5.0
23 Indeno(1,2,3-cd)pyrene	276	14.716	14.744	(1.119)	238108	3.28725	3.3(M)
24 Dibenzo(a,h)anthracene	278	14.739	14.779	(1.121)	213000	3.12271	3.1
25 Benzo(g,h,i)perylene	276	15.145	15.191	(1.152)	256468	3.67729	3.7

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD11007.D

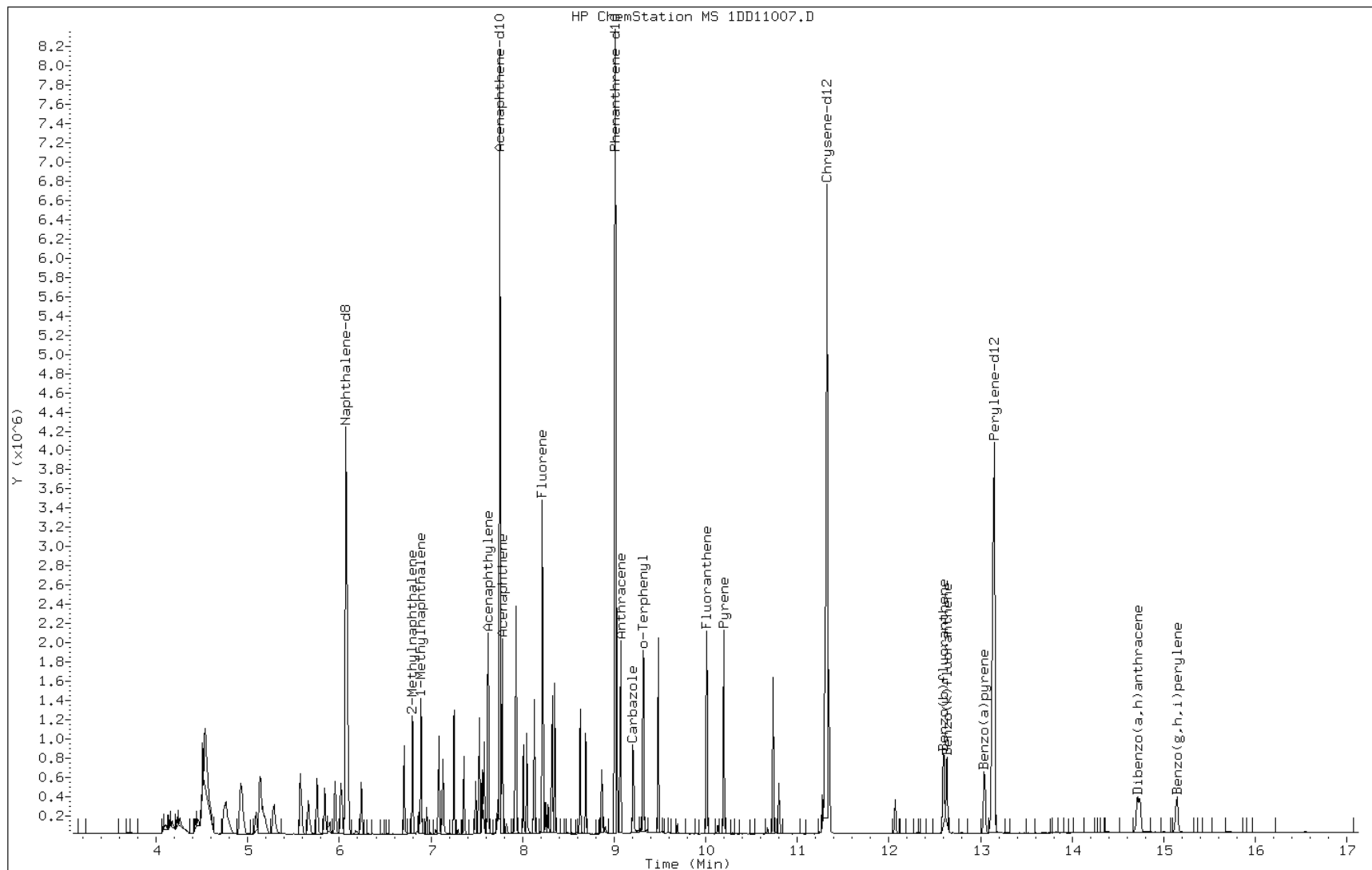
Date: 11-APR-2013 12:28

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-136268/2-A

Operator: SCC

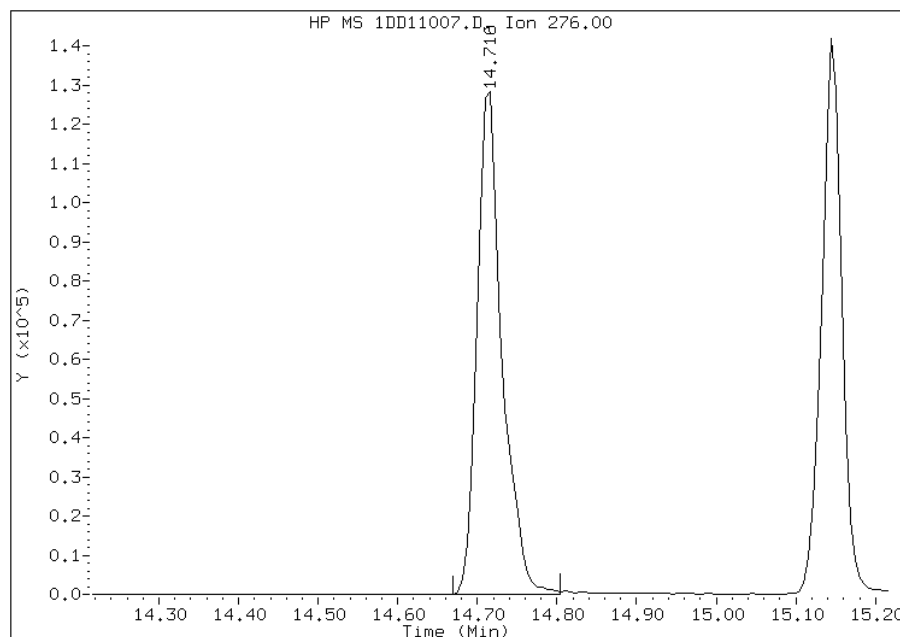


Manual Integration Report

Data File: 1DD11007.D
Inj. Date and Time: 11-APR-2013 12:28
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

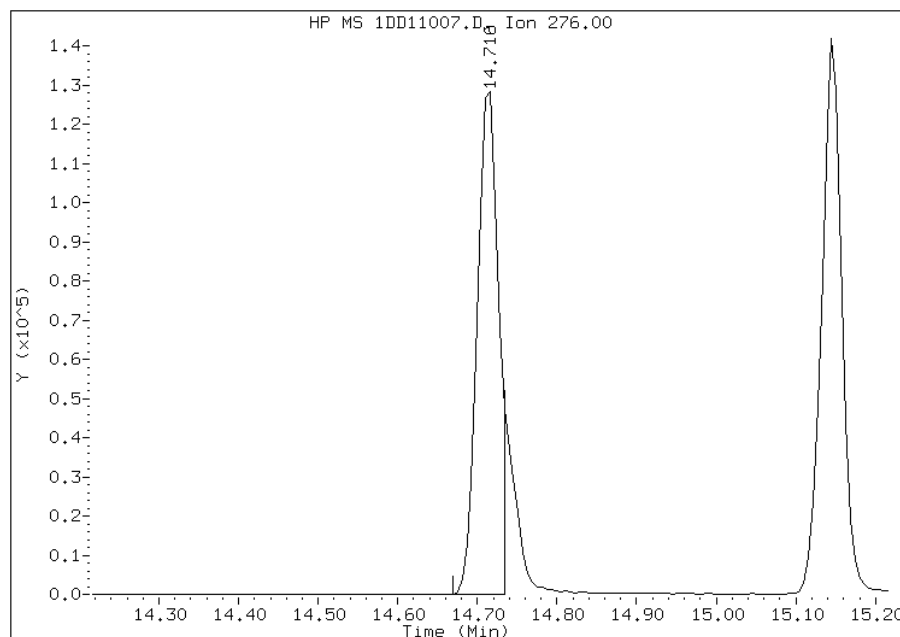
Processing Integration Results

RT: 14.72
Response: 278404
Amount: 4
Conc: 4



Manual Integration Results

RT: 14.72
Response: 238108
Amount: 3
Conc: 3



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>640-42937-C-15-D MS</u>
Matrix: <u>Water (SPLP East)</u>	Lab File ID: <u>1DD11010.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3520C</u>	Date Extracted: <u>04/09/2013 14:11</u>
Sample wt/vol: <u>1030 (mL)</u>	Date Analyzed: <u>04/11/2013 13:36</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136371</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	5.90		1.9	0.49
208-96-8	Acenaphthylene	5.73		0.97	0.24
120-12-7	Anthracene	5.16		0.19	0.074
56-55-3	Benzo[a]anthracene	2.28		0.19	0.049
50-32-8	Benzo[a]pyrene	1.40		0.19	0.055
205-99-2	Benzo[b]fluoranthene	1.65		0.19	0.049
191-24-2	Benzo[g,h,i]perylene	1.57		0.49	0.097
207-08-9	Benzo[k]fluoranthene	1.62		0.19	0.055
218-01-9	Chrysene	2.24		0.19	0.067
53-70-3	Dibenz(a,h)anthracene	1.47		0.19	0.049
206-44-0	Fluoranthene	4.47		0.49	0.052
86-73-7	Fluorene	6.08		1.9	0.49
193-39-5	Indeno[1,2,3-cd]pyrene	1.42		0.19	0.049
90-12-0	1-Methylnaphthalene	6.95		1.9	0.49
91-57-6	2-Methylnaphthalene	6.12		1.9	0.49
91-20-3	Naphthalene	7.24		1.9	0.24
85-01-8	Phenanthrene	5.50		0.49	0.19
129-00-0	Pyrene	3.85		0.49	0.086

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11010.D
 Lab Smp Id: 640-42937-C-15-D MS
 Inj Date : 11-APR-2013 13:36
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 640-42937-C-15-D MS
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\dFASTPAHi.m
 Meth Date : 11-Apr-2013 11:40 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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	1030.000	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							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
							(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Naphthalene-d8		136	6.072	6.078	(1.000)	2545259	40.0000		
* 6 Acenaphthene-d10		164	7.758	7.752	(1.000)	1628464	40.0000		
* 9 Phenanthrene-d10		188	9.016	9.016	(1.000)	2671855	40.0000		
\$ 13 o-Terphenyl		230	9.321	9.327	(1.034)	189029	4.69546	4.6	
* 17 Chrysene-d12		240	11.325	11.331	(1.000)	2791289	40.0000		
* 22 Perylene-d12		264	13.152	13.158	(1.000)	2759175	40.0000		
2 Naphthalene		128	6.096	6.096	(1.004)	471639	7.45513	7.2	
3 2-Methylnaphthalene		142	6.801	6.801	(1.120)	257617	6.30816	6.1	
4 1-Methylnaphthalene		142	6.895	6.895	(1.135)	276254	7.16316	7.0(Q)	
5 Acenaphthylene		152	7.629	7.623	(0.983)	406583	5.89904	5.7	
7 Acenaphthene		154	7.782	7.782	(1.003)	258473	6.07539	5.9	
8 Fluorene		166	8.223	8.222	(1.060)	315669	6.26564	6.1	
10 Phenanthrene		178	9.033	9.033	(1.002)	416569	5.66026	5.5(R)	
11 Anthracene		178	9.075	9.074	(1.007)	388334	5.31633	5.2	
12 Carbazole		167	9.216	9.215	(1.022)	357494	5.54850	5.4	
14 Fluoranthene		202	10.015	10.014	(1.111)	348944	4.60754	4.5(R)	
15 Pyrene		202	10.203	10.208	(0.901)	332149	3.96254	3.8(R)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
16 Benzo(a)anthracene	228	11.313	11.313	(0.999)	189402	2.34694	2.3(R)
18 Chrysene	228	11.348	11.354	(1.002)	174428	2.30513	2.2(R)
19 Benzo(b)fluoranthene	252	12.594	12.611	(0.958)	117025	1.69786	1.6(R)
20 Benzo(k)fluoranthene	252	12.629	12.653	(0.960)	121348	1.67117	1.6(R)
21 Benzo(a)pyrene	252	13.046	13.064	(0.992)	99887	1.44234	1.4(R)
23 Indeno(1,2,3-cd)pyrene	276	14.715	14.744	(1.119)	107926	1.46153	1.4(RM)
24 Dibenzo(a,h)anthracene	278	14.739	14.779	(1.121)	105377	1.51538	1.5
25 Benzo(g,h,i)perylene	276	15.150	15.191	(1.152)	114970	1.61697	1.6(RH)

QC Flag Legend

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: 1DD11010.D

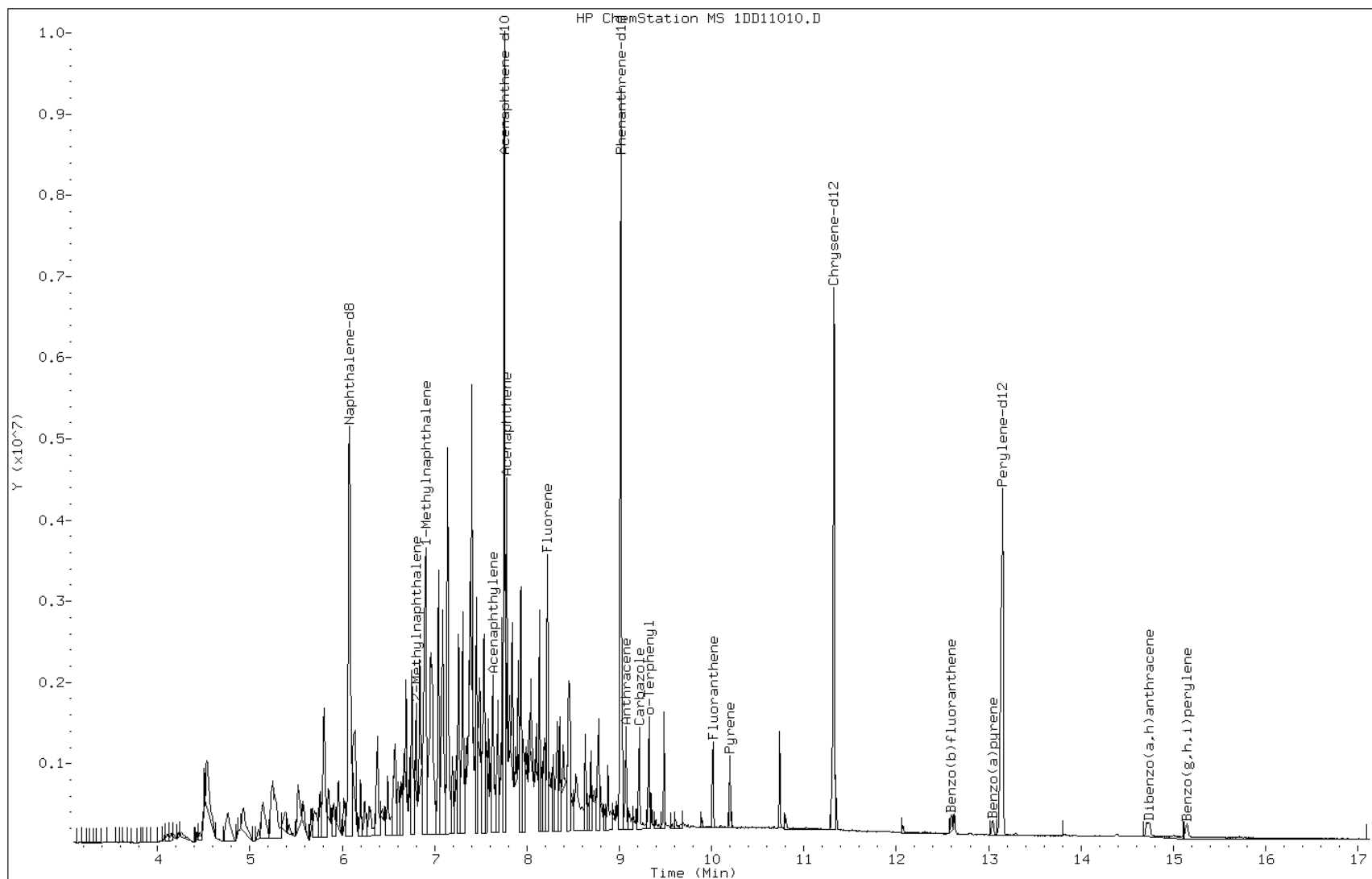
Date: 11-APR-2013 13:36

Client ID:

Instrument: BSMSD.i

Sample Info: 640-42937-C-15-D MS

Operator: SCC

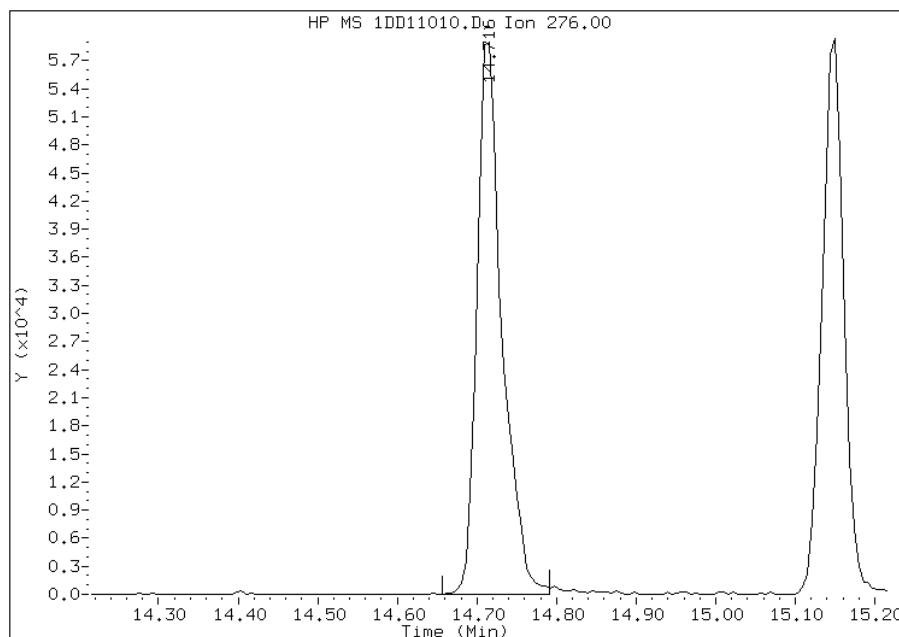


Manual Integration Report

Data File: 1DD11010.D
Inj. Date and Time: 11-APR-2013 13:36
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

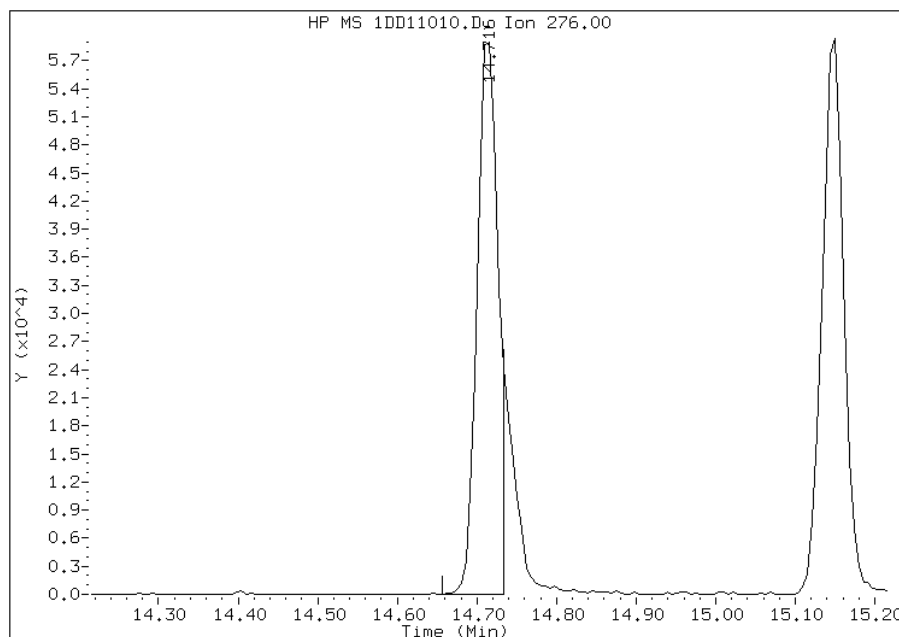
Processing Integration Results

RT: 14.72
Response: 128947
Amount: 2
Conc: 2



Manual Integration Results

RT: 14.72
Response: 107926
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>CV0116B-CS-SP MS</u>	Lab Sample ID: <u>680-88913-2 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10013.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 14:40</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.11(g)</u>	Date Analyzed: <u>04/10/2013 15:12</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>41.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	576		170	34
208-96-8	Acenaphthylene	602		67	8.4
120-12-7	Anthracene	628		14	7.1
56-55-3	Benzo[a]anthracene	768		13	6.6
50-32-8	Benzo[a]pyrene	715		18	8.8
205-99-2	Benzo[b]fluoranthene	819		21	10
191-24-2	Benzo[g,h,i]perylene	994		34	7.4
207-08-9	Benzo[k]fluoranthene	808		13	6.1
218-01-9	Chrysene	827		15	7.6
53-70-3	Dibenz(a,h)anthracene	1020		34	6.9
206-44-0	Fluoranthene	689		34	6.7
86-73-7	Fluorene	602		34	6.9
193-39-5	Indeno[1,2,3-cd]pyrene	931		34	12
90-12-0	1-Methylnaphthalene	694		67	7.4
91-57-6	2-Methylnaphthalene	720		67	12
91-20-3	Naphthalene	670		67	7.4
85-01-8	Phenanthrene	654		13	6.6
129-00-0	Pyrene	818		34	6.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

```
Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10013.D
Lab Smp Id: 680-88913-a-2-b ms
Inj Date : 10-APR-2013 15:12
Operator : SCC
Smp Info : 680-88913-a-2-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:54 cantins
Cal Date : 09-APR-2013 12:03
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMA5973.i
Quant Type: ISTD
Cal File: 1AD09009.D
QC Sample: MS
Compound Sublist: pah.sub
```

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/V_i * V_t/W_s * 100/(100 - M) * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	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

						CONCENTRATIONS		
		QUANT	SIG				ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====		====	====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	2.588	2.584	(1.000)	1575822	40.0000	
*	6 Acenaphthene-d10	164	3.619	3.615	(1.000)	867858	40.0000	
*	10 Phenanthrene-d10	188	4.570	4.571	(1.000)	1416367	40.0000	
\$	14 o-Terphenyl	230	4.869	4.870	(1.065)	171825	5.70802	377.7641
*	18 Chrysene-d12	240	6.589	6.584	(1.000)	1259358	40.0000	
*	23 Perylene-d12	264	7.668	7.663	(1.000)	1561065	40.0000	
	2 Naphthalene	128	2.599	2.600	(1.004)	325502	5.97385	395.3571
	3 2-Methylnaphthalene	141	3.005	3.000	(1.161)	200581	6.41379	424.4731
	4 1-Methylnaphthalene	142	3.058	3.059	(1.182)	223142	6.18809	409.5360
	5 Acenaphthylene	152	3.528	3.524	(0.975)	339276	5.36993	355.3889
	7 Acenaphthene	154	3.635	3.636	(1.004)	191555	5.13515	339.8512
	9 Fluorene	166	3.950	3.951	(1.091)	239819	5.36483	355.0513
	11 Phenanthrene	178	4.581	4.581	(1.002)	315707	5.83044	385.8663
	12 Anthracene	178	4.618	4.619	(1.011)	319557	5.59845	370.5126

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	4.746	4.747	(1.039)	272082	5.50711	364.4680
15 Fluoranthene	202	5.446	5.447	(1.192)	363027	6.13834	406.2436
16 Pyrene	202	5.612	5.612	(0.852)	353836	7.29131	482.5487
17 Benzo(a)anthracene	228	6.578	6.574	(0.998)	287550	6.84507	453.0159
19 Chrysene	228	6.605	6.606	(1.002)	315744	7.36963	487.7316
20 Benzo(b)fluoranthene	252	7.395	7.391	(0.964)	345548	7.30017	483.1352
21 Benzo(k)fluoranthene	252	7.411	7.412	(0.967)	378382	7.19743	476.3357
22 Benzo(a)pyrene	252	7.620	7.615	(0.994)	319488	6.37434	421.8622
24 Indeno(1,2,3-cd)pyrene	276	8.432	8.427	(1.100)	355937	8.29679	549.0926
25 Dibenzo(a,h)anthracene	278	8.458	8.459	(1.103)	357637	9.06190	599.7288
26 Benzo(g,h,i)perylene	276	8.651	8.651	(1.128)	376606	8.85759	586.2069

Data File: 1AD10013.D

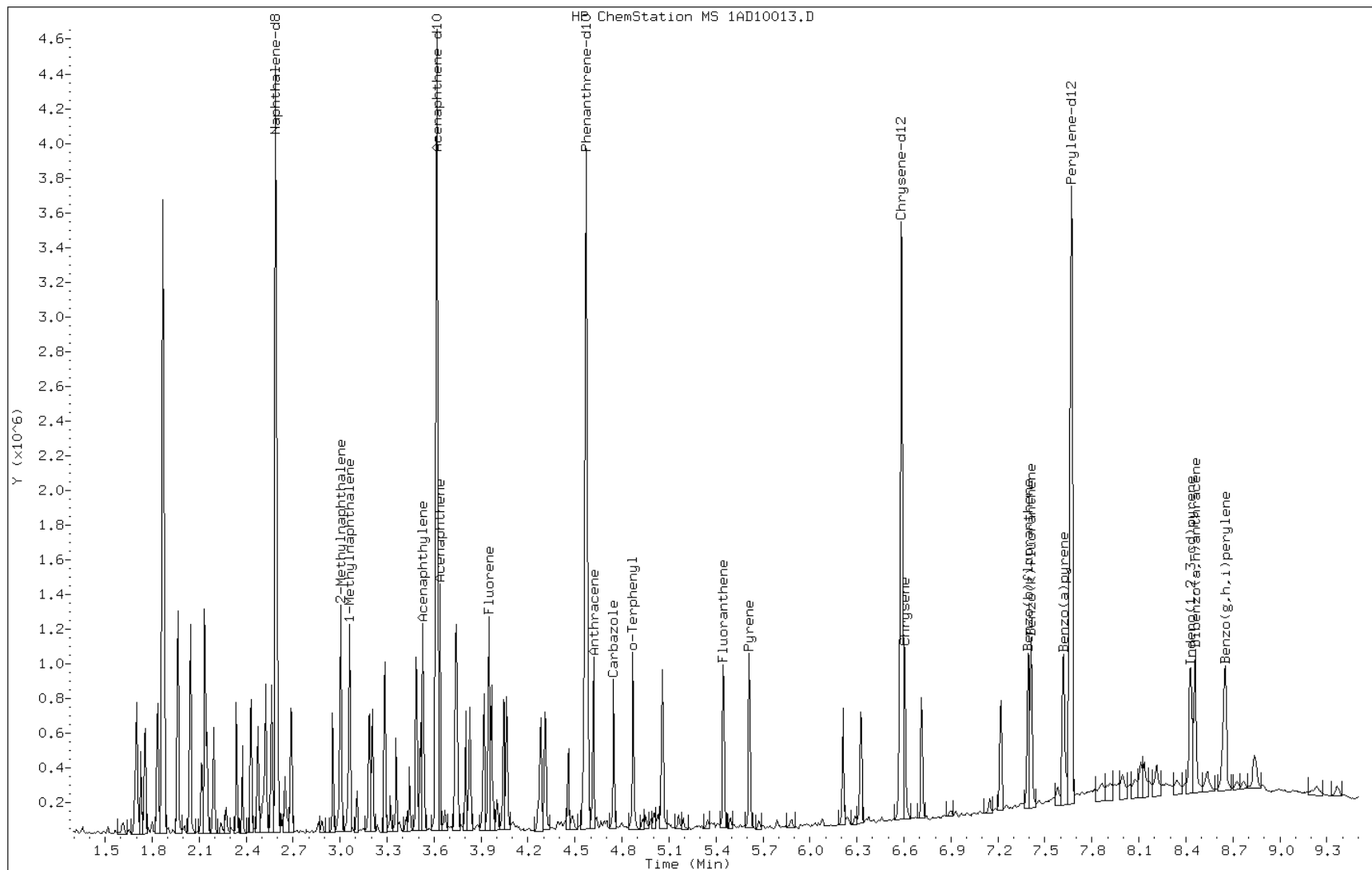
Date: 10-APR-2013 15:12

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-b ms

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>CV0116B-CS-SP MSD</u>	Lab Sample ID: <u>680-88913-2 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AD10014.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/01/2013 14:40</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/08/2013 15:18</u>
Sample wt/vol: <u>15.00(g)</u>	Date Analyzed: <u>04/10/2013 15:27</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>41.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136318</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	584		170	34
208-96-8	Acenaphthylene	612		68	8.5
120-12-7	Anthracene	620		14	7.1
56-55-3	Benzo[a]anthracene	761		14	6.6
50-32-8	Benzo[a]pyrene	699		18	8.8
205-99-2	Benzo[b]fluoranthene	817		21	10
191-24-2	Benzo[g,h,i]perylene	948		34	7.5
207-08-9	Benzo[k]fluoranthene	770		14	6.1
218-01-9	Chrysene	783		15	7.6
53-70-3	Dibenz(a,h)anthracene	1000		34	7.0
206-44-0	Fluoranthene	674		34	6.8
86-73-7	Fluorene	596		34	7.0
193-39-5	Indeno[1,2,3-cd]pyrene	898		34	12
90-12-0	1-Methylnaphthalene	708		68	7.5
91-57-6	2-Methylnaphthalene	729		68	12
91-20-3	Naphthalene	686		68	7.5
85-01-8	Phenanthrene	642		14	6.6
129-00-0	Pyrene	794		34	6.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

```
Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\1AD10014.D
Lab Smp Id: 680-88913-a-2-c msd
Inj Date  : 10-APR-2013 15:27
Operator   : SCC                      Inst ID: BSMA5973.i
Smp Info  : 680-88913-a-2-c msd
Misc Info :
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMA5973.i\1A041013.b\a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:54 cantins  Quant Type: ISTD
Cal Date  : 09-APR-2013 12:03         Cal File: 1AD09009.D
Als bottle: 14                       QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE                   Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000
```

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.000000	% 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

							CONCENTRATIONS	
		QUANT	SIG				ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	2.588	2.584	(1.000)	1581304	40.0000	
*	6 Acenaphthene-d10	164	3.619	3.615	(1.000)	854618	40.0000	
*	10 Phenanthrene-d10	188	4.570	4.571	(1.000)	1373331	40.0000	
\$	14 o-Terphenyl	230	4.869	4.870	(1.065)	169572	5.82225	388.1502
*	18 Chrysene-d12	240	6.589	6.584	(1.000)	1260635	40.0000	
*	23 Perylene-d12	264	7.668	7.663	(1.000)	1578961	40.0000	
	2 Naphthalene	128	2.599	2.600	(1.004)	331404	6.07373	404.9155
	3 2-Methylnaphthalene	141	3.005	3.000	(1.161)	202185	6.44711	429.8070
	4 1-Methylnaphthalene	142	3.058	3.059	(1.182)	226184	6.26269	417.5129
	5 Acenaphthylene	152	3.528	3.524	(0.975)	336667	5.41518	361.0120
	7 Acenaphthene	154	3.635	3.636	(1.004)	189587	5.16551	344.3674
	9 Fluorene	166	3.950	3.951	(1.091)	232596	5.27369	351.5790
	11 Phenanthrene	178	4.581	4.581	(1.002)	299330	5.68316	378.8776
	12 Anthracene	178	4.618	4.619	(1.011)	304187	5.48277	365.5181

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	4.746	4.747	(1.039)	279659	5.87346	391.5641
15 Fluoranthene	202	5.446	5.447	(1.192)	343043	5.96789	397.8592
16 Pyrene	202	5.611	5.612	(0.852)	341377	7.02745	468.4966
17 Benzo(a)anthracene	228	6.578	6.574	(0.998)	283236	6.73555	449.0364
19 Chrysene	228	6.605	6.606	(1.002)	296958	6.92413	461.6086
20 Benzo(b)fluoranthene	252	7.390	7.391	(0.964)	345929	7.22539	481.6926
21 Benzo(k)fluoranthene	252	7.411	7.412	(0.967)	362491	6.81701	454.4674
22 Benzo(a)pyrene	252	7.620	7.615	(0.994)	314734	6.18426	412.2842
24 Indeno(1,2,3-cd)pyrene	276	8.431	8.427	(1.100)	343807	7.94123	529.4153
25 Dibenzo(a,h)anthracene	278	8.458	8.459	(1.103)	354954	8.89198	592.7989
26 Benzo(g,h,i)perylene	276	8.650	8.651	(1.128)	360845	8.39071	559.3803

Data File: 1AD10014.D

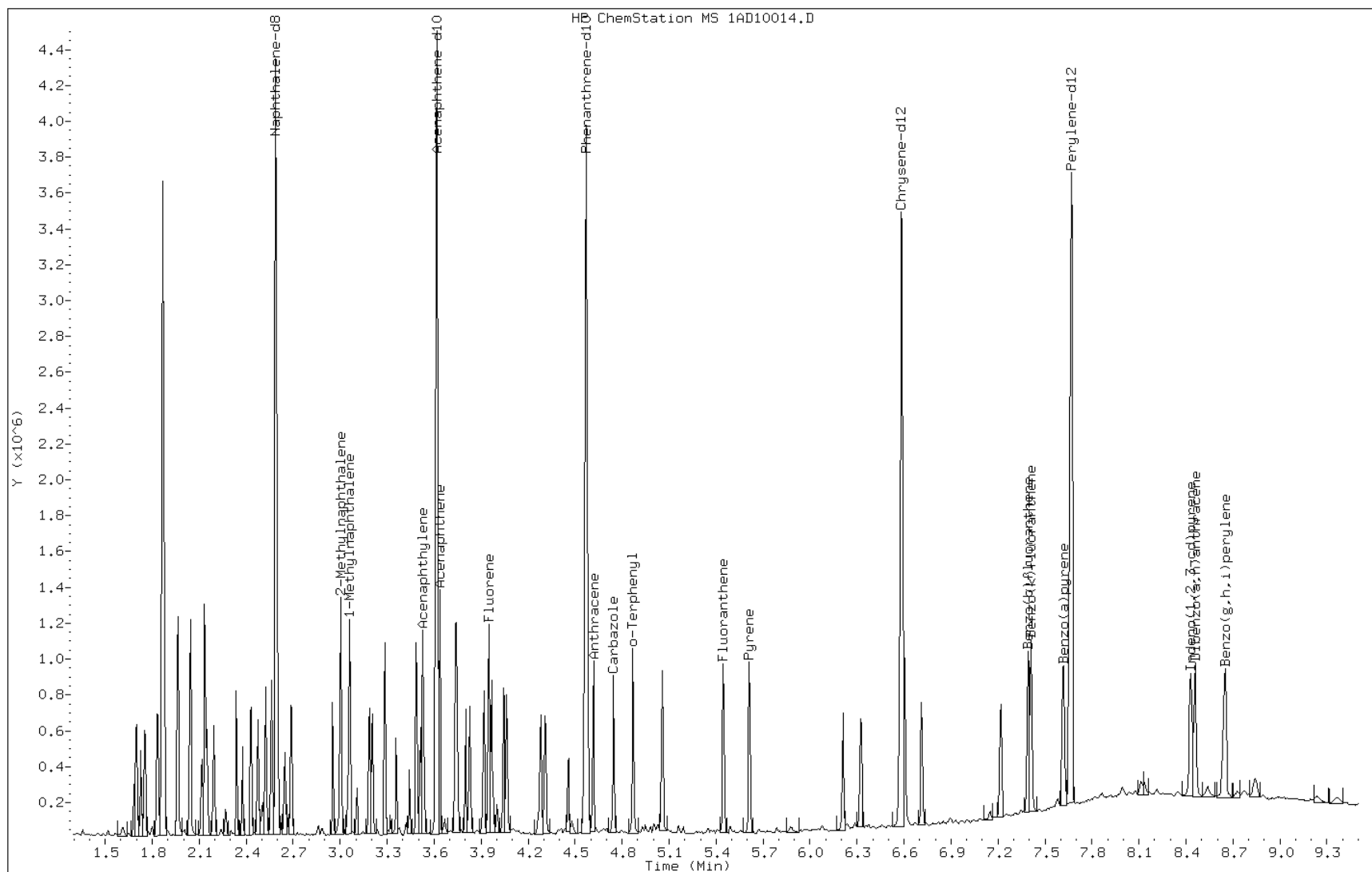
Date: 10-APR-2013 15:27

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-88913-a-2-c msd

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88913-1</u>
SDG No.: <u>680088913-1</u>	
Client Sample ID: <u>040213-RB-sieve DU</u>	Lab Sample ID: <u>680-88913-17 DU</u>
Matrix: <u>Water</u>	Lab File ID: <u>1DD11011.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 09:10</u>
Extract. Method: <u>3520C</u>	Date Extracted: <u>04/09/2013 14:11</u>
Sample wt/vol: <u>1030 (mL)</u>	Date Analyzed: <u>04/11/2013 13:59</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u></u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136371</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1.9	U	1.9	0.49
208-96-8	Acenaphthylene	0.97	U	0.97	0.24
120-12-7	Anthracene	0.19	U	0.19	0.074
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.049
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.055
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.049
191-24-2	Benzo[g,h,i]perylene	0.49	U	0.49	0.097
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.055
218-01-9	Chrysene	0.19	U	0.19	0.067
53-70-3	Dibenz(a,h)anthracene	0.19	U	0.19	0.049
206-44-0	Fluoranthene	0.49	U	0.49	0.052
86-73-7	Fluorene	1.9	U	1.9	0.49
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.049
90-12-0	1-Methylnaphthalene	1.9	U	1.9	0.49
91-57-6	2-Methylnaphthalene	1.9	U	1.9	0.49
91-20-3	Naphthalene	1.9	U	1.9	0.24
85-01-8	Phenanthrene	0.49	U	0.49	0.19
129-00-0	Pyrene	0.49	U	0.49	0.086

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11011.D
 Lab Smp Id: 680-88913-A-17-A DU
 Inj Date : 11-APR-2013 13:59
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-88913-A-17-A DU
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\dFASTPAHi.m
 Meth Date : 11-Apr-2013 11:40 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 10 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	1030.000	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

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.075	6.078	(1.000)	2511649	40.0000		
*	6 Acenaphthene-d10	164	7.749	7.752	(1.000)	1570523	40.0000		
*	9 Phenanthrene-d10	188	9.013	9.016	(1.000)	2587531	40.0000		
\$	13 o-Terphenyl	230	9.318	9.327	(1.034)	287418	7.37210	7.2	
*	17 Chrysene-d12	240	11.322	11.331	(1.000)	2662848	40.0000		
*	22 Perylene-d12	264	13.149	13.158	(1.000)	2719810	40.0000		

Data File: 1DD11011.D

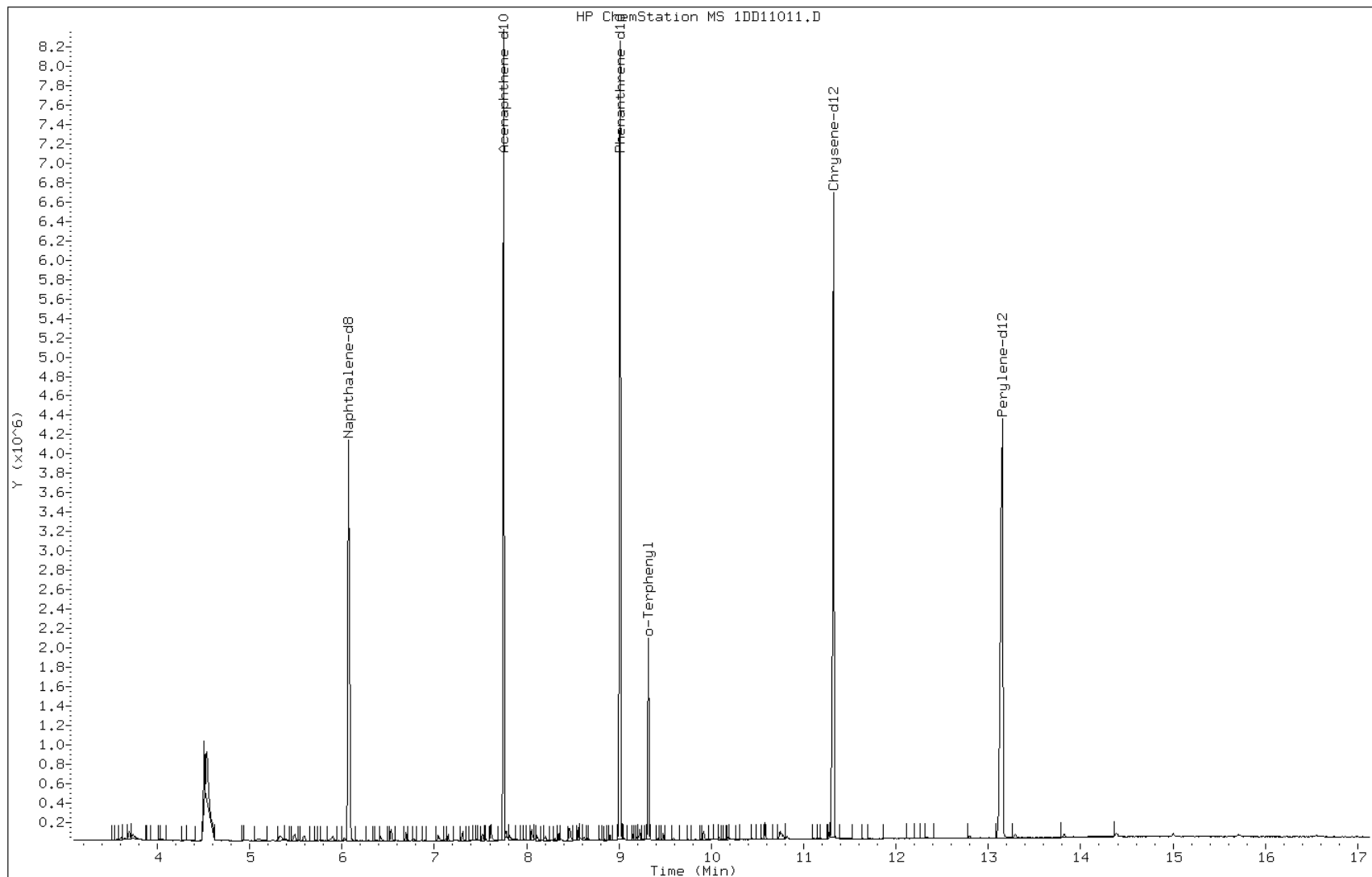
Date: 11-APR-2013 13:59

Client ID:

Instrument: BSMSD.i

Sample Info: 680-88913-A-17-A DU

Operator: SCC



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMA5973Start Date: 04/09/2013 09:45Analysis Batch Number: 136269End Date: 04/09/2013 22:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/09/2013 09:45	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 10:03	1		DB-5MS 250 (um)
DFTTP 660-136269/2		04/09/2013 10:18	1	1AD09002.D	DB-5MS 250 (um)
ICIS 660-136269/3		04/09/2013 10:31	1	1AD09003.D	DB-5MS 250 (um)
IC 660-136269/4		04/09/2013 10:48	1	1AD09004.D	DB-5MS 250 (um)
IC 660-136269/5		04/09/2013 11:04	1	1AD09005.D	DB-5MS 250 (um)
IC 660-136269/6		04/09/2013 11:19	1	1AD09006.D	DB-5MS 250 (um)
IC 660-136269/7		04/09/2013 11:33	1	1AD09007.D	DB-5MS 250 (um)
IC 660-136269/8		04/09/2013 11:49	1	1AD09008.D	DB-5MS 250 (um)
IC 660-136269/9		04/09/2013 12:03	1	1AD09009.D	DB-5MS 250 (um)
ZZZZZ		04/09/2013 12:19	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 13:15	1		DB-5MS 250 (um)
ICV 660-136269/12		04/09/2013 13:51	1	1AD09012.D	DB-5MS 250 (um)
ZZZZZ		04/09/2013 15:35	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 15:50	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 16:05	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 17:02	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 17:17	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 17:33	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 17:48	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 18:03	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 18:18	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 18:33	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 18:48	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 19:03	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 19:18	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 19:33	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 19:48	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 20:03	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 20:18	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 20:33	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 20:49	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 21:04	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 21:19	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 21:34	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 21:49	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 22:04	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 22:19	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 22:34	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 22:49	4		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMA5973Start Date: 04/10/2013 11:48Analysis Batch Number: 136318End Date: 04/10/2013 18:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/10/2013 11:48	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 12:03	1		DB-5MS 250 (um)
DFTTP 660-136318/2		04/10/2013 12:19	1	1AD10002.D	DB-5MS 250 (um)
CCVIS 660-136318/3		04/10/2013 12:41	1	1AD10003.D	DB-5MS 250 (um)
ZZZZZ		04/10/2013 12:57	1		DB-5MS 250 (um)
MB 660-136235/1-A		04/10/2013 13:12	1	1AD10005.D	DB-5MS 250 (um)
ZZZZZ		04/10/2013 13:27	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 13:42	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 13:57	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 14:12	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 14:27	4		DB-5MS 250 (um)
680-88913-1	CV0116A-CS-SP	04/10/2013 14:42	1	1AD10011.D	DB-5MS 250 (um)
680-88913-2	CV0116B-CS-SP	04/10/2013 14:57	1	1AD10012.D	DB-5MS 250 (um)
680-88913-2 MS	CV0116B-CS-SP MS	04/10/2013 15:12	1	1AD10013.D	DB-5MS 250 (um)
680-88913-2 MSD	CV0116B-CS-SP MSD	04/10/2013 15:27	1	1AD10014.D	DB-5MS 250 (um)
680-88913-3	CV0501A-CS-SP	04/10/2013 15:42	1	1AD10015.D	DB-5MS 250 (um)
680-88913-4	CV0501B-CS-SP	04/10/2013 15:57	1	1AD10016.D	DB-5MS 250 (um)
680-88913-5	FM0128A-CS-SP	04/10/2013 16:12	1	1AD10017.D	DB-5MS 250 (um)
680-88913-6	FM0128B-CS-SP	04/10/2013 16:27	1	1AD10018.D	DB-5MS 250 (um)
680-88913-7	HP0219A-CS	04/10/2013 16:42	1	1AD10019.D	DB-5MS 250 (um)
680-88913-8	FM0207A-CS	04/10/2013 16:57	1	1AD10020.D	DB-5MS 250 (um)
680-88913-9	FM0207A-CSD	04/10/2013 17:12	1	1AD10021.D	DB-5MS 250 (um)
680-88913-10	FM0207B-CS	04/10/2013 17:28	1	1AD10022.D	DB-5MS 250 (um)
680-88913-11	FM0207C-CS	04/10/2013 17:43	1	1AD10023.D	DB-5MS 250 (um)
680-88913-12	FM0207D-CS	04/10/2013 17:58	1	1AD10024.D	DB-5MS 250 (um)
680-88913-13	FM0321A-CS	04/10/2013 18:13	1	1AD10025.D	DB-5MS 250 (um)
680-88913-14	FM0321B-CS	04/10/2013 18:27	1	1AD10026.D	DB-5MS 250 (um)
680-88913-15	FM0326A-CS	04/10/2013 18:42	1	1AD10027.D	DB-5MS 250 (um)
680-88913-16	FM0326B-CS	04/10/2013 18:57	4	1AD10028.D	DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88913-1
SDG No.: 680088913-1
Instrument ID: BSMC5973 Start Date: 04/02/2013 10:54
Analysis Batch Number: 136048 End Date: 04/02/2013 15:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/02/2013 10:54	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 11:13	1		DB-5MS 250 (um)
DFTPP 660-136048/2		04/02/2013 11:31	1	1CD02002.D	DB-5MS 250 (um)
CCVIS 660-136048/3		04/02/2013 11:49	1		DB-5MS 250 (um)
CCVIS 660-136048/4		04/02/2013 12:09	1		DB-5MS 250 (um)
IC 660-136048/5		04/02/2013 13:26	1	1CD02005.D	DB-5MS 250 (um)
IC 660-136048/6		04/02/2013 13:44	1	1CD02006.D	DB-5MS 250 (um)
IC 660-136048/7		04/02/2013 14:02	1	1CD02007.D	DB-5MS 250 (um)
IC 660-136048/8		04/02/2013 14:20	1	1CD02008.D	DB-5MS 250 (um)
ICIS 660-136048/9		04/02/2013 14:39	1	1CD02009.D	DB-5MS 250 (um)
IC 660-136048/10		04/02/2013 14:57	1	1CD02010.D	DB-5MS 250 (um)
IC 660-136048/11		04/02/2013 15:15	1	1CD02011.D	DB-5MS 250 (um)
ICV 660-136048/12		04/02/2013 15:34	1	1CD02012.D	DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMC5973Start Date: 04/10/2013 11:17Analysis Batch Number: 136309End Date: 04/11/2013 00:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/10/2013 11:17	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 11:35	1		DB-5MS 250 (um)
DFTTP 660-136309/2		04/10/2013 11:53	1	1CD10002.D	DB-5MS 250 (um)
CCVIS 660-136309/3		04/10/2013 12:10	1	1CD10003.D	DB-5MS 250 (um)
ZZZZZ		04/10/2013 12:28	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 12:47	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 13:05	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 13:24	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 13:42	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 14:00	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 14:19	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 14:37	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 14:55	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 15:42	4		DB-5MS 250 (um)
LCS 660-136235/2-A		04/10/2013 16:05	1	1CD10014.D	DB-5MS 250 (um)
ZZZZZ		04/10/2013 16:58	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 17:16	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 17:35	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 17:53	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 18:11	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 18:30	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 18:48	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 19:06	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 19:25	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 19:43	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 20:02	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 20:20	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 20:38	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 20:57	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 21:15	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 21:33	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 21:52	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 22:10	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 22:29	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 22:47	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 23:05	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 23:24	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 23:42	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 00:00	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMD5973Start Date: 04/04/2013 11:04Analysis Batch Number: 136164End Date: 04/04/2013 20:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/04/2013 11:04	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 11:30	1		DB-5MS 250 (um)
DFTTP 660-136164/2		04/04/2013 11:55	1		DB-5MS 250 (um)
DFTTP 660-136164/3		04/04/2013 12:15	1	1DD04003.D	DB-5MS 250 (um)
CCVIS 660-136164/4		04/04/2013 12:34	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 13:02	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 13:26	1		DB-5MS 250 (um)
IC 660-136164/15		04/04/2013 13:49	1	1DD04007.D	DB-5MS 250 (um)
IC 660-136164/16		04/04/2013 14:11	1	1DD04008.D	DB-5MS 250 (um)
IC 660-136164/17		04/04/2013 14:34	1	1DD04009.D	DB-5MS 250 (um)
IC 660-136164/18		04/04/2013 14:57	1	1DD04010.D	DB-5MS 250 (um)
ICIS 660-136164/19		04/04/2013 15:19	1	1DD04011.D	DB-5MS 250 (um)
IC 660-136164/20		04/04/2013 15:42	1	1DD04012.D	DB-5MS 250 (um)
IC 660-136164/21		04/04/2013 16:04	1	1DD04013.D	DB-5MS 250 (um)
ICV 660-136164/22		04/04/2013 16:27	1	1DD04014.D	DB-5MS 250 (um)
ZZZZZ		04/04/2013 16:52	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 17:18	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 17:44	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 18:09	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 18:35	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 19:01	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 19:27	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 19:51	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 20:13	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 20:36	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88913-1SDG No.: 680088913-1Instrument ID: BSMD5973Start Date: 04/11/2013 09:50Analysis Batch Number: 136371End Date: 04/11/2013 21:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/11/2013 09:50	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 10:12	1		DB-5MS 250 (um)
DFTTP 660-136371/2		04/11/2013 10:37	1		DB-5MS 250 (um)
DFTTP 660-136371/3		04/11/2013 11:00	1	1DD11003.D	DB-5MS 250 (um)
CCVIS 660-136371/4		04/11/2013 11:20	1	1DD11004.D	DB-5MS 250 (um)
ZZZZZ		04/11/2013 11:43	1		DB-5MS 250 (um)
MB 660-136268/1-A		04/11/2013 12:06	1	1DD11006.D	DB-5MS 250 (um)
LCS 660-136268/2-A		04/11/2013 12:28	1	1DD11007.D	DB-5MS 250 (um)
ZZZZZ		04/11/2013 12:51	1		DB-5MS 250 (um)
680-88913-17	040213-RB-sieve	04/11/2013 13:14	1	1DD11009.D	DB-5MS 250 (um)
640-42937-C-15-D MS		04/11/2013 13:36	1	1DD11010.D	DB-5MS 250 (um)
680-88913-17 DU	040213-RB-sieve DU	04/11/2013 13:59	1	1DD11011.D	DB-5MS 250 (um)
ZZZZZ		04/11/2013 14:21	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 14:44	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:00	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:22	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:45	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:08	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:30	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:53	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 18:15	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 18:38	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 19:01	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 19:23	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 19:46	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:08	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:31	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:54	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 21:16	1		DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica TampaJob No.: 680-88913-1SDG No.: 680088913-1Batch Number: 136235Batch Start Date: 04/08/13 15:18Batch Analyst: Cerome, SaurelBatch Method: 3546Batch End Date: 04/09/13 12:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00178	EXLLSURINT 00179	
MB 660-136235/1		3546, 8270C LL		15.18 g	1 mL		1 mL		
LCS 660-136235/2		3546, 8270C LL		15.26 g	1 mL	1 mL	1 mL		
680-88913-A-1	CV0116A-CS-SP	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-88913-A-2	CV0116B-CS-SP	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-88913-A-2 MS	CV0116B-CS-SP	3546, 8270C LL	T	15.11 g	1 mL	1 mL		1 mL	
680-88913-A-2 MSD	CV0116B-CS-SP	3546, 8270C LL	T	15.00 g	1 mL	1 mL		1 mL	
680-88913-A-3	CV0501A-CS-SP	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-88913-A-4	CV0501B-CS-SP	3546, 8270C LL	T	15.48 g	1 mL		1 mL		
680-88913-A-5	FM0128A-CS-SP	3546, 8270C LL	T	14.91 g	1 mL			1 mL	
680-88913-A-6	FM0128B-CS-SP	3546, 8270C LL	T	14.99 g	1 mL			1 mL	
680-88913-A-7	HP0219A-CS	3546, 8270C LL	T	15.33 g	1 mL			1 mL	
680-88913-A-8	FM0207A-CS	3546, 8270C LL	T	15.29 g	1 mL			1 mL	
680-88913-A-9	FM0207A-CSD	3546, 8270C LL	T	15.39 g	1 mL			1 mL	
680-88913-A-10	FM0207B-CS	3546, 8270C LL	T	15.37 g	1 mL			1 mL	
680-88913-A-11	FM0207C-CS	3546, 8270C LL	T	15.21 g	1 mL			1 mL	
680-88913-A-12	FM0207D-CS	3546, 8270C LL	T	14.99 g	1 mL			1 mL	
680-88913-A-13	FM0321A-CS	3546, 8270C LL	T	15.28 g	1 mL			1 mL	
680-88913-A-14	FM0321B-CS	3546, 8270C LL	T	15.20 g	1 mL			1 mL	
680-88913-A-15	FM0326A-CS	3546, 8270C LL	T	15.49 g	1 mL			1 mL	
680-88913-A-16	FM0326B-CS	3546, 8270C LL	T	14.96 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.

8270C LL

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Batch Number: 136235 Batch Start Date: 04/08/13 15:18 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/09/13 12:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT 50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX- MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 66
Microwave Start Time	17:00 4/8/13
Microwave Stop Time	17:35 4/8/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 17/8/179
Water Bath ID	TURBOVAP2 #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.

8270C LL

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Batch Number: 136268 Batch Start Date: 04/09/13 14:11 Batch Analyst: George, AbrahamBatch Method: 3520C Batch End Date: 04/10/13 11:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	EX-625LVI SPK 00021
MB 660-136268/1		3520C, 8270C LL		8	1000 mL	1 mL	8	<2	
LCS 660-136268/2		3520C, 8270C LL		8	1000 mL	1 mL	8	<2	1 mL
680-88913-B-17	040213-RB-sieve	3520C, 8270C LL	T	8	1030 mL	1 mL	8	<2	
640-42937-C-15-B MS		3520C, 8270C LL	E	8	1030 mL	1 mL	8	<2	1 mL
680-88913-A-17 DU	040213-RB-sieve	3520C, 8270C LL	T	8	1030 mL	1 mL	8	<2	

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXLLSURINT 00179					
MB 660-136268/1		3520C, 8270C LL		1 mL					
LCS 660-136268/2		3520C, 8270C LL		1 mL					
680-88913-B-17	040213-RB-sieve	3520C, 8270C LL	T	1 mL					
640-42937-C-15-B MS		3520C, 8270C LL	E	1 mL					
680-88913-A-17 DU	040213-RB-sieve	3520C, 8270C LL	T	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.

8270C LL

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Batch Number: 136268 Batch Start Date: 04/09/13 14:11 Batch Analyst: George, AbrahamBatch Method: 3520C Batch End Date: 04/10/13 11:15

Batch Notes	
Acid used for pH adjustment	10H2S04
Acid used for pH adjust Lot #	EX-10H2S04 6
Batch Comment	NONE
Concentration End Time	11:15 4/10/13
Concentration Start Time	10:10 4/10/13
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Time the first extraction ended 24hr	19:10 4/9/13
Time the first extraction started 24 hr	15:10 4/9/13
pH Paper Lot Number	HC273036
Prep Solvent Lot #	EX-MC CYCL 55
Prep Solvent Name	DCM
Prep Solvent Volume Used	210 mL
Person's name who did the prep	AG
Person's name who witnessed reagent drop	SAUREL
Sufficient volume for MS/MSD?	MS ONLY
Water Bath ID	TURBOVAP2 #1/2
Water Bath Temperature	40 Celsius

Basis	Basis Description
T	Total/NA
E	SPLP East

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.

8270C LL

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GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88913-1
SDG No.: 680088913-1
Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0116A-CS-SP	680-88913-1
CV0116B-CS-SP	680-88913-2
CV0501A-CS-SP	680-88913-3
CV0501B-CS-SP	680-88913-4
FM0128A-CS-SP	680-88913-5
FM0128B-CS-SP	680-88913-6
HP0219A-CS	680-88913-7
FM0207A-CS	680-88913-8
FM0207A-CSD	680-88913-9
FM0207B-CS	680-88913-10
FM0207C-CS	680-88913-11
FM0207D-CS	680-88913-12
FM0321A-CS	680-88913-13
FM0321B-CS	680-88913-14
FM0326A-CS	680-88913-15
FM0326B-CS	680-88913-16

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88913-1
SDG Number: 680088913-1
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: 680-88913-1
SDG Number: 680088913-1
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.: 680-88913-1

SDG No.: 680088913-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/04/2013 12:49 End Date: 04/04/2013 12:49

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				M o i s t																	
680-88913-12	1	T	12:49	X																	
680-88913-15	1	T	12:49	X																	
680-88913-13	1	T	12:49	X																	
680-88913-11	1	T	12:49	X																	
680-88913-8	1	T	12:49	X																	
680-88913-7	1	T	12:49	X																	
680-88913-5	1	T	12:49	X																	
680-88913-16	1	T	12:49	X																	
680-88913-14	1	T	12:49	X																	
680-88913-2	1	T	12:49	X																	
680-88913-2 MS	1	T	12:49	X																	
680-88913-2 MSD	1	T	12:49	X																	
680-88913-3	1	T	12:49	X																	
680-88913-4	1	T	12:49	X																	
680-88913-10	1	T	12:49	X																	
680-88913-1	1	T	12:49	X																	
680-88913-9	1	T	12:49	X																	
680-88913-6	1	T	12:49	X																	
ZZZZZZ			12:49																		
ZZZZZZ			12:49																		

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88913-1SDG No.: 680088913-1Batch Number: 136123 Batch Start Date: 04/04/13 12:49 Batch Analyst: Galio, AndrewBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88913-A-12	FM0207D-CS	Moisture	T	1	0 g	4.52 g	3.50 g		
680-88913-A-15	FM0326A-CS	Moisture	T	2	0 g	4.45 g	3.61 g		
680-88913-A-13	FM0321A-CS	Moisture	T	3	0 g	4.96 g	4.19 g		
680-88913-A-11	FM0207C-CS	Moisture	T	4	0 g	4.76 g	3.81 g		
680-88913-A-8	FM0207A-CS	Moisture	T	5	0 g	4.33 g	2.90 g		
680-88913-A-7	HP0219A-CS	Moisture	T	6	0 g	5.02 g	3.11 g		
680-88913-A-5	FM0128A-CS-SP	Moisture	T	7	0 g	5.32 g	3.78 g		
680-88913-A-16	FM0326B-CS	Moisture	T	8	0 g	4.15 g	3.26 g		
680-88913-A-14	FM0321B-CS	Moisture	T	9	0 g	4.52 g	3.74 g		
680-88913-A-2	CV0116B-CS-SP	Moisture	T	10	0 g	4.34 g	2.56 g		
680-88913-A-2	CV0116B-CS-SP	Moisture	T	10	0 g	4.34 g	2.56 g		
MS									
680-88913-A-2	CV0116B-CS-SP	Moisture	T	10	0 g	4.34 g	2.56 g		
MSD									
680-88913-A-3	CV0501A-CS-SP	Moisture	T	11	0 g	4.63 g	3.55 g		
680-88913-A-4	CV0501B-CS-SP	Moisture	T	12	0 g	4.66 g	2.81 g		
680-88913-A-10	FM0207B-CS	Moisture	T	13	0 g	4.91 g	3.94 g		
680-88913-A-1	CV0116A-CS-SP	Moisture	T	14	0 g	5.20 g	3.90 g		
680-88913-A-9	FM0207A-CSD	Moisture	T	15	0 g	4.60 g	2.63 g		
680-88913-A-6	FM0128B-CS-SP	Moisture	T	16	0 g	4.64 g	3.47 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.4.13
Date samples were removed from oven	4.5.13

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.

Moisture

Page 1 of 1

Shipping and Receiving Documents

Serial Number 63541

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

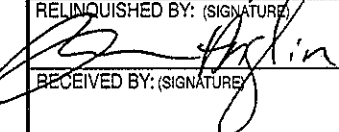
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

☐ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35th Ave Removal	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS										PAGE 1	OF 2
TAL (LAB) PROJECT MANAGER Lisa Harvey	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR UNK (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH RCEH8Merols	PRESERVATIVE										STANDARD REPORT DELIVERY ☐
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX													DATE DUE _____
CLIENT NAME (b) (6)	CLIENT E-MAIL														EXPEDITED REPORT DELIVERY (SURCHARGE) ☐
CLIENT ADDRESS (b) (6)															DATE DUE _____
COMPANY CONTRACT															NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR UNK (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME																	
4-1-13	1430	CV0116A - CS - SP	C	X			X											
4-1-13	1440	CV0116B - CS - SP	C	X			X	X										
	1350	CV0501A - CS - SP	C	X			X											
	1400	CV0501B - CS - SP	C	X			X	X										
	1320	FM0128A - CS - SP	C	X			X											
	1330	FM0128B - CS - SP	C	X			X											
	1520	HP0219A - CS	C	X			X											
	1425	FM0207A - CS	C	X			X											
	1430	FM0207A - CSD	C	X			X											
	1437	FM0207B - CS	C	X			X											
	1442	FM0207C - CS	C	X			X											
	1451	FM0207D - CS	C	X			X											

RELINQUISHED BY: (SIGNATURE) 	DATE 4-2-13	TIME 1300	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY						
RECEIVED FOR LABORATORY BY: (SIGNATURE) 	DATE 04/03/13	TIME 0927	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO. 680-88913	SAVANNAH LOG NO. 200	LABORATORY REMARKS 2.0°

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☒ **TestAmerica Savannah**
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

☐ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35th Ave Removal		PROJECT NO. 2005148-1356		PROJECT LOCATION (STATE) AL		MATRIX TYPE		REQUIRED ANALYSIS										PAGE 2 OF 2	
TAL (LAB) PROJECT MANAGER Lisa Harvey		P.O. NUMBER		CONTRACT NO.		COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)		LL PWH Metals REACH-8 PRESERVATIVE										STANDARD REPORT DELIVERY ☐	
CLIENT (SITE) DM		CLIENT PHONE		CLIENT FAX														DATE DUE _____	
CLIENT NAME (b) (6)		CLIENT E-MAIL																EXPEDITED REPORT DELIVERY (SURCHARGE) ☐	
CLIENT ADDRESS (b) (6)																		DATE DUE _____	
COMPANY CONTRACTING THIS WORK (if applicable)														NUMBER OF COOLERS SUBMITTED PER SHIPMENT:					
SAMPLE		SAMPLE IDENTIFICATION						NUMBER OF CONTAINERS SUBMITTED										REMARKS	
DATE	TIME																		
4-1-13	1258	FM0321A - CS				C X		X											
	1305	FM0321 B - CS				C X		X											
	1335	FM0326A - CS				C X		X											
	1344	FM0326B - CS				C X		X											
4-2-13	0910	040213 - RB - sieve				X		X X											
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME								
B. Anglin		4-2-13	1300																
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME								
LABORATORY USE ONLY																			
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT YES ☐ NO ☐		CUSTODY SEAL NO.		SAVANNAH LOG NO. 880 88913		LABORATORY REMARKS 2.0"									
W. J. ...		04/03/13	0927																

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-1

SDG Number: 680088913-1

Login Number: 88913

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-1

SDG Number: 680088913-1

Login Number: 88913

List Source: TestAmerica Tampa

List Number: 1

List Creation: 04/04/13 11:11 AM

Creator: Snead, Joshua

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 $<6\text{mm}$ (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: 680-88913-1

TestAmerica Sample Delivery Group: 680088913-1

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:

4/15/2013 11:11:06 AM

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

LINKS

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results through

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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.

Case Narrative

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Job ID: 680-88913-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88913-1

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 04/03/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0116A-CS-SP (680-88913-1), CV0116B-CS-SP (680-88913-2), CV0501A-CS-SP (680-88913-3), CV0501B-CS-SP (680-88913-4), FM0128A-CS-SP (680-88913-5), FM0128B-CS-SP (680-88913-6), HP0219A-CS (680-88913-7), FM0207A-CS (680-88913-8), FM0207A-CSD (680-88913-9), FM0207B-CS (680-88913-10), FM0207C-CS (680-88913-11), FM0207D-CS (680-88913-12), FM0321A-CS (680-88913-13), FM0321B-CS (680-88913-14), FM0326A-CS (680-88913-15) and FM0326B-CS (680 88913 16) were analyzed for Sem volatile Organic Compounds by GCMS Low Level in accordance with EPA SW 846 Method 8270C. The samples were prepared on 04/08/2013 and analyzed on 04/10/2013.

Method(s) 8270C LL: The following samples were diluted due to the color of the extracts: FM0326B-CS (680-88913-16). Elevated reporting limits (RL) are provided. Batch: 136318.

Method(s) 8270C LL: The matrix spike (MS) recoveries associated with batch 136371 were outside control limits, biased low: (640-42937-15 MS). Matrix interference is suspected. The associated laboratory control sample (LCS) recovery met acceptance criteria.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 040213-RB-sieve (680-88913-17) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/09/2013 and analyzed on 04/11/2013.

Sample Summary

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88913-1	CV0116A-CS-SP	Solid	04/01/13 14:30	04/03/13 09:27
680-88913-2	CV0116B-CS-SP	Solid	04/01/13 14:40	04/03/13 09:27
680-88913-3	CV0501A-CS-SP	Solid	04/01/13 13:50	04/03/13 09:27
680-88913-4	CV0501B-CS-SP	Solid	04/01/13 14:00	04/03/13 09:27
680-88913-5	FM0128A-CS-SP	Solid	04/01/13 13:20	04/03/13 09:27
680-88913-6	FM0128B-CS-SP	Solid	04/01/13 13:30	04/03/13 09:27
680-88913-7	HP0219A-CS	Solid	04/01/13 15:20	04/03/13 09:27
680-88913-8	FM0207A-CS	Solid	04/01/13 14:25	04/03/13 09:27
680-88913-9	FM0207A-CSD	Solid	04/01/13 14:30	04/03/13 09:27
680-88913-10	FM0207B-CS	Solid	04/01/13 14:37	04/03/13 09:27
680-88913-11	FM0207C-CS	Solid	04/01/13 14:42	04/03/13 09:27
680-88913-12	FM0207D-CS	Solid	04/01/13 14:51	04/03/13 09:27
680-88913-13	FM0321A-CS	Solid	04/01/13 12:58	04/03/13 09:27
680-88913-14	FM0321B-CS	Solid	04/01/13 13:05	04/03/13 09:27
680-88913-15	FM0326A-CS	Solid	04/01/13 13:35	04/03/13 09:27
680-88913-16	FM0326B-CS	Solid	04/01/13 13:44	04/03/13 09:27
680-88913-17	040213-RB-sieve	Water	04/02/13 09:10	04/03/13 09:27

Method Summary

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

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

Definitions/Glossary

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Qualifiers

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: CV0116A-CS-SP

Lab Sample ID: 680-88913-1

Date Collected: 04/01/13 14:30

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	63	J	130	26	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Acenaphthylene	58		52	6.5	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Anthracene	91		11	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Benzo[a]anthracene	390		10	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Benzo[a]pyrene	330		14	6.8	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Benzo[b]fluoranthene	530		16	7.9	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Benzo[g,h,i]perylene	300		26	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Benzo[k]fluoranthene	160		10	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Chrysene	460		12	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Dibenz(a,h)anthracene	97		26	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Fluoranthene	620		26	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Fluorene	51		26	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Indeno[1,2,3-cd]pyrene	280		26	9.2	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
1-Methylnaphthalene	230		52	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
2-Methylnaphthalene	300		52	9.2	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Naphthalene	200		52	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Phenanthrene	530		10	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1
Pyrene	590		26	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	51		30 - 130	04/08/13 15:18	04/10/13 14:42	1

Client Sample ID: CV0116B-CS-SP

Lab Sample ID: 680-88913-2

Date Collected: 04/01/13 14:40

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 59.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Acenaphthylene	68	U	68	8.5	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Anthracene	14	U	14	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Benzo[a]anthracene	46		14	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Benzo[a]pyrene	18	U	18	8.8	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Benzo[b]fluoranthene	65		21	10	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Benzo[g,h,i]perylene	44		34	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Benzo[k]fluoranthene	27		14	6.1	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Chrysene	60		15	7.6	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Dibenz(a,h)anthracene	14	J	34	7.0	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Fluoranthene	57		34	6.8	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Fluorene	34	U	34	7.0	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Indeno[1,2,3-cd]pyrene	82		34	12	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
1-Methylnaphthalene	61	J	68	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
2-Methylnaphthalene	69		68	12	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Naphthalene	73		68	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Phenanthrene	80		14	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1
Pyrene	59		34	6.3	ug/Kg	☼	04/08/13 15:18	04/10/13 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		30 - 130	04/08/13 15:18	04/10/13 14:57	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: CV0501A-CS-SP

Lab Sample ID: 680-88913-3

Date Collected: 04/01/13 13:50

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	69	J	130	26	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Acenaphthylene	72		52	6.5	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Anthracene	120		11	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Benzo[a]anthracene	490		10	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Benzo[a]pyrene	570		14	6.8	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Benzo[b]fluoranthene	860		16	7.9	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Benzo[g,h,i]perylene	510		26	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Benzo[k]fluoranthene	340		10	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Chrysene	590		12	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Dibenz(a,h)anthracene	160		26	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Fluoranthene	780		26	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Fluorene	61		26	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Indeno[1,2,3-cd]pyrene	490		26	9.2	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
1-Methylnaphthalene	130		52	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
2-Methylnaphthalene	150		52	9.2	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Naphthalene	130		52	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Phenanthrene	560		10	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1
Pyrene	690		26	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	62		30 - 130	04/08/13 15:18	04/10/13 15:42	1

Client Sample ID: CV0501B-CS-SP

Lab Sample ID: 680-88913-4

Date Collected: 04/01/13 14:00

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 60.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Acenaphthylene	64	U	64	8.0	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Anthracene	13	U	13	6.7	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Benzo[a]anthracene	53		13	6.3	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Benzo[a]pyrene	69		17	8.4	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Benzo[b]fluoranthene	110		20	9.8	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Benzo[g,h,i]perylene	67		32	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Benzo[k]fluoranthene	29		13	5.8	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Chrysene	65		14	7.2	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Dibenz(a,h)anthracene	16	J	32	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Fluoranthene	65		32	6.4	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Fluorene	32	U	32	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Indeno[1,2,3-cd]pyrene	100		32	11	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
1-Methylnaphthalene	64	U	64	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
2-Methylnaphthalene	41	J	64	11	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Naphthalene	53	J	64	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Phenanthrene	61		13	6.3	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1
Pyrene	74		32	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		30 - 130	04/08/13 15:18	04/10/13 15:57	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0128A-CS-SP

Lab Sample ID: 680-88913-5

Date Collected: 04/01/13 13:20

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 71.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Acenaphthylene	57	U	57	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Anthracene	12	U	12	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Benzo[a]anthracene	49		11	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Benzo[a]pyrene	54		15	7.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Benzo[b]fluoranthene	86		17	8.6	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Benzo[g,h,i]perylene	49		28	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Benzo[k]fluoranthene	26		11	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Chrysene	62		13	6.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Dibenz(a,h)anthracene	13 J		28	5.8	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Fluoranthene	73		28	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Fluorene	28	U	28	5.8	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Indeno[1,2,3-cd]pyrene	81		28	10	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
1-Methylnaphthalene	41 J		57	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
2-Methylnaphthalene	39 J		57	10	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Naphthalene	51 J		57	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Phenanthrene	67		11	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1
Pyrene	70		28	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	56		30 - 130	04/08/13 15:18	04/10/13 16:12	1

Client Sample ID: FM0128B-CS-SP

Lab Sample ID: 680-88913-6

Date Collected: 04/01/13 13:30

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 74.8

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	☼	04/08/13 15:18	04/10/13 16:27	1
Acenaphthylene	54	U	54	6.7	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Anthracene	11	U	11	5.6	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Benzo[a]anthracene	35		11	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Benzo[a]pyrene	36		14	7.0	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Benzo[b]fluoranthene	62		16	8.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Benzo[g,h,i]perylene	35		27	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Benzo[k]fluoranthene	20		11	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Chrysene	53		12	6.0	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Dibenz(a,h)anthracene	9.5 J		27	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Fluoranthene	48		27	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Fluorene	27	U	27	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Indeno[1,2,3-cd]pyrene	66		27	9.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
1-Methylnaphthalene	40 J		54	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
2-Methylnaphthalene	39 J		54	9.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Naphthalene	51 J		54	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Phenanthrene	60		11	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1
Pyrene	47		27	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	45		30 - 130	04/08/13 15:18	04/10/13 16:27	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: HP0219A-CS

Lab Sample ID: 680-88913-7

Date Collected: 04/01/13 15:20

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 62.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Acenaphthylene	63	U	63	7.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Anthracene	13	U	13	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Benzo[a]anthracene	25		13	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Benzo[a]pyrene	19		16	8.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Benzo[b]fluoranthene	35		19	9.6	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Benzo[g,h,i]perylene	19 J		32	6.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Benzo[k]fluoranthene	8.4 J		13	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Chrysene	26		14	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Dibenz(a,h)anthracene	32	U	32	6.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Fluoranthene	29 J		32	6.3	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Fluorene	32	U	32	6.5	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Indeno[1,2,3-cd]pyrene	32	U	32	11	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
1-Methylnaphthalene	63	U	63	6.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
2-Methylnaphthalene	37 J		63	11	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Naphthalene	56 J		63	6.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Phenanthrene	50		13	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Pyrene	25 J		32	5.8	ug/Kg	☼	04/08/13 15:18	04/10/13 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	51		30 - 130				04/08/13 15:18	04/10/13 16:42	1

Client Sample ID: FM0207A-CS

Lab Sample ID: 680-88913-8

Date Collected: 04/01/13 14:25

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 67.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	29	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Acenaphthylene	59	U	59	7.3	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Anthracene	12	U	12	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Benzo[a]anthracene	27		12	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Benzo[a]pyrene	19		15	7.6	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Benzo[b]fluoranthene	32		18	8.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Benzo[g,h,i]perylene	18 J		29	6.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Benzo[k]fluoranthene	12		12	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Chrysene	25		13	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Dibenz(a,h)anthracene	29	U	29	6.0	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Fluoranthene	28 J		29	5.9	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Fluorene	29	U	29	6.0	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Indeno[1,2,3-cd]pyrene	54		29	10	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
1-Methylnaphthalene	59	U	59	6.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
2-Methylnaphthalene	37 J		59	10	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Naphthalene	48 J		59	6.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Phenanthrene	49		12	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Pyrene	24 J		29	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		30 - 130				04/08/13 15:18	04/10/13 16:57	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0207A-CSD

Lab Sample ID: 680-88913-9

Date Collected: 04/01/13 14:30

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 57.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Acenaphthylene	68	U	68	8.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Anthracene	14	U	14	7.2	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Benzo[a]anthracene	14	U	14	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Benzo[a]pyrene	18	U	18	8.9	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Benzo[b]fluoranthene	11	J	21	10	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Benzo[g,h,i]perylene	34	U	34	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Benzo[k]fluoranthene	14	U	14	6.1	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Chrysene	15	U	15	7.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Dibenz(a,h)anthracene	34	U	34	7.0	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Fluoranthene	34	U	34	6.8	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Fluorene	34	U	34	7.0	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Indeno[1,2,3-cd]pyrene	34	U	34	12	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
1-Methylnaphthalene	68	U	68	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
2-Methylnaphthalene	68	U	68	12	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Naphthalene	68	U	68	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Phenanthrene	14	U	14	6.6	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Pyrene	6.7	J	34	6.3	ug/Kg	☼	04/08/13 15:18	04/10/13 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	56		30 - 130				04/08/13 15:18	04/10/13 17:12	1

Client Sample ID: FM0207B-CS

Lab Sample ID: 680-88913-10

Date Collected: 04/01/13 14:37

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 80.2

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	☼	04/08/13 15:18	04/10/13 17:28	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Anthracene	10	U	10	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Benzo[a]anthracene	72		9.7	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Benzo[a]pyrene	69		13	6.3	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Benzo[b]fluoranthene	120		15	7.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Benzo[g,h,i]perylene	65		24	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Benzo[k]fluoranthene	34		9.7	4.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Chrysene	110		11	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Dibenz(a,h)anthracene	24		24	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Fluoranthene	80		24	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Fluorene	24	U	24	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Indeno[1,2,3-cd]pyrene	86		24	8.6	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
1-Methylnaphthalene	62		49	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
2-Methylnaphthalene	71		49	8.6	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Naphthalene	81		49	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Phenanthrene	98		9.7	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Pyrene	75		24	4.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	51		30 - 130				04/08/13 15:18	04/10/13 17:28	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0207C-CS

Lab Sample ID: 680-88913-11

Date Collected: 04/01/13 14:42

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 80.0

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	25	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Acenaphthylene	49	U	49	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Anthracene	10	U	10	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Benzo[a]anthracene	70		9.9	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Benzo[a]pyrene	71		13	6.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Benzo[b]fluoranthene	120		15	7.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Benzo[g,h,i]perylene	62		25	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Benzo[k]fluoranthene	32		9.9	4.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Chrysene	91		11	5.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Dibenz(a,h)anthracene	21	J	25	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Fluoranthene	87		25	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Fluorene	25	U	25	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Indeno[1,2,3-cd]pyrene	88		25	8.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
1-Methylnaphthalene	46	J	49	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
2-Methylnaphthalene	48	J	49	8.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Naphthalene	58		49	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Phenanthrene	78		9.9	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Pyrene	88		25	4.6	ug/Kg	☼	04/08/13 15:18	04/10/13 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		30 - 130				04/08/13 15:18	04/10/13 17:43	1

Client Sample ID: FM0207D-CS

Lab Sample ID: 680-88913-12

Date Collected: 04/01/13 14:51

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Acenaphthylene	52	U	52	6.5	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Anthracene	11	U	11	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Benzo[a]anthracene	69		10	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Benzo[a]pyrene	70		13	6.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Benzo[b]fluoranthene	110		16	7.9	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Benzo[g,h,i]perylene	59		26	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Benzo[k]fluoranthene	37		10	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Chrysene	86		12	5.8	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Dibenz(a,h)anthracene	21	J	26	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Fluoranthene	88		26	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Fluorene	26	U	26	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Indeno[1,2,3-cd]pyrene	87		26	9.2	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
1-Methylnaphthalene	45	J	52	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
2-Methylnaphthalene	46	J	52	9.2	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Naphthalene	57		52	5.7	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Phenanthrene	77		10	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Pyrene	88		26	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		30 - 130				04/08/13 15:18	04/10/13 17:58	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0321A-CS

Lab Sample ID: 680-88913-13

Date Collected: 04/01/13 12:58

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 84.5

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	23	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Acenaphthylene	46	U	46	5.8	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Anthracene	46		9.8	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Benzo[a]anthracene	92		9.3	4.5	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Benzo[a]pyrene	88		12	6.0	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Benzo[b]fluoranthene	150		14	7.1	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Benzo[g,h,i]perylene	93		23	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Benzo[k]fluoranthene	51		9.3	4.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Chrysene	110		10	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Dibenz(a,h)anthracene	25		23	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Fluoranthene	99		23	4.6	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Fluorene	23	U	23	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Indeno[1,2,3-cd]pyrene	100		23	8.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
1-Methylnaphthalene	52		46	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
2-Methylnaphthalene	67		46	8.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Naphthalene	56		46	5.1	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Phenanthrene	89		9.3	4.5	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Pyrene	100		23	4.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	48		30 - 130				04/08/13 15:18	04/10/13 18:13	1

Client Sample ID: FM0321B-CS

Lab Sample ID: 680-88913-14

Date Collected: 04/01/13 13:05

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 82.7

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	☼	04/08/13 15:18	04/10/13 18:27	1
Acenaphthylene	48	U	48	6.0	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Anthracene	10	U	10	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Benzo[a]anthracene	27		9.5	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Benzo[a]pyrene	28		12	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Benzo[b]fluoranthene	60		15	7.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Benzo[g,h,i]perylene	27		24	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Benzo[k]fluoranthene	21		9.5	4.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Chrysene	42		11	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Dibenz(a,h)anthracene	8.1	J	24	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Fluoranthene	32		24	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Fluorene	24	U	24	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Indeno[1,2,3-cd]pyrene	56		24	8.5	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
1-Methylnaphthalene	48	U	48	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
2-Methylnaphthalene	48	U	48	8.5	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Naphthalene	48	U	48	5.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Phenanthrene	40		9.5	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Pyrene	33		24	4.4	ug/Kg	☼	04/08/13 15:18	04/10/13 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	47		30 - 130				04/08/13 15:18	04/10/13 18:27	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0326A-CS

Lab Sample ID: 680-88913-15

Date Collected: 04/01/13 13:35

Matrix: Solid

Date Received: 04/03/13 09:27

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	120	U	120	24	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Acenaphthylene	48	U	48	6.0	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Anthracene	10	U	10	5.0	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Benzo[a]anthracene	34		9.5	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Benzo[a]pyrene	40		12	6.2	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Benzo[b]fluoranthene	65		15	7.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Benzo[g,h,i]perylene	35		24	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Benzo[k]fluoranthene	22		9.5	4.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Chrysene	49		11	5.4	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Dibenz(a,h)anthracene	11 J		24	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Fluoranthene	50		24	4.8	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Fluorene	24	U	24	4.9	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Indeno[1,2,3-cd]pyrene	64		24	8.5	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
1-Methylnaphthalene	48	U	48	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
2-Methylnaphthalene	33 J		48	8.5	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Naphthalene	48	U	48	5.3	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Phenanthrene	49		9.5	4.7	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Pyrene	47		24	4.4	ug/Kg	☼	04/08/13 15:18	04/10/13 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	46		30 - 130				04/08/13 15:18	04/10/13 18:42	1

Client Sample ID: FM0326B-CS

Lab Sample ID: 680-88913-16

Date Collected: 04/01/13 13:44

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Acenaphthylene	200	U	200	26	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Anthracene	43	U	43	21	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Benzo[a]anthracene	110		41	20	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Benzo[a]pyrene	100		53	27	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Benzo[b]fluoranthene	180		62	31	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Benzo[g,h,i]perylene	89 J		100	22	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Benzo[k]fluoranthene	52		41	18	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Chrysene	120		46	23	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Dibenz(a,h)anthracene	27 J		100	21	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Fluoranthene	130		100	20	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Fluorene	100	U	100	21	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Indeno[1,2,3-cd]pyrene	220		100	36	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
1-Methylnaphthalene	200	U	200	22	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
2-Methylnaphthalene	200	U	200	36	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Naphthalene	200	U	200	22	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Phenanthrene	160		41	20	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Pyrene	110		100	19	ug/Kg	☼	04/08/13 15:18	04/10/13 18:57	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		30 - 130				04/08/13 15:18	04/10/13 18:57	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: 040213-RB-sieve

Lab Sample ID: 680-88913-17

Date Collected: 04/02/13 09:10

Matrix: Water

Date Received: 04/03/13 09:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.49	ug/L		04/09/13 14:11	04/11/13 13:14	1
Acenaphthylene	0.97	U	0.97	0.24	ug/L		04/09/13 14:11	04/11/13 13:14	1
Anthracene	0.19	U	0.19	0.074	ug/L		04/09/13 14:11	04/11/13 13:14	1
Benzo[a]anthracene	0.19	U	0.19	0.049	ug/L		04/09/13 14:11	04/11/13 13:14	1
Benzo[a]pyrene	0.19	U	0.19	0.055	ug/L		04/09/13 14:11	04/11/13 13:14	1
Benzo[b]fluoranthene	0.19	U	0.19	0.049	ug/L		04/09/13 14:11	04/11/13 13:14	1
Benzo[g,h,i]perylene	0.49	U	0.49	0.097	ug/L		04/09/13 14:11	04/11/13 13:14	1
Benzo[k]fluoranthene	0.19	U	0.19	0.055	ug/L		04/09/13 14:11	04/11/13 13:14	1
Chrysene	0.19	U	0.19	0.067	ug/L		04/09/13 14:11	04/11/13 13:14	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.049	ug/L		04/09/13 14:11	04/11/13 13:14	1
Fluoranthene	0.49	U	0.49	0.052	ug/L		04/09/13 14:11	04/11/13 13:14	1
Fluorene	1.9	U	1.9	0.49	ug/L		04/09/13 14:11	04/11/13 13:14	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.049	ug/L		04/09/13 14:11	04/11/13 13:14	1
1-Methylnaphthalene	1.9	U	1.9	0.49	ug/L		04/09/13 14:11	04/11/13 13:14	1
2-Methylnaphthalene	1.9	U	1.9	0.49	ug/L		04/09/13 14:11	04/11/13 13:14	1
Naphthalene	1.9	U	1.9	0.24	ug/L		04/09/13 14:11	04/11/13 13:14	1
Phenanthrene	0.49	U	0.49	0.19	ug/L		04/09/13 14:11	04/11/13 13:14	1
Pyrene	0.49	U	0.49	0.086	ug/L		04/09/13 14:11	04/11/13 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	63		30 - 130				04/09/13 14:11	04/11/13 13:14	1

QC Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

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

Lab Sample ID: MB 660-136235/1-A

Matrix: Solid

Analysis Batch: 136318

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Acenaphthylene	40	U	40	4.9	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Chrysene	8.9	U	8.9	4.4	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Fluorene	20	U	20	4.1	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
1-Methylnaphthalene	40	U	40	4.3	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Naphthalene	40	U	40	4.3	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		04/08/13 15:18	04/10/13 13:12	1
Pyrene	20	U	20	3.7	ug/Kg		04/08/13 15:18	04/10/13 13:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		30 - 130	04/08/13 15:18	04/10/13 13:12	1

Lab Sample ID: LCS 660-136235/2-A

Matrix: Solid

Analysis Batch: 136309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	655	454		ug/Kg		69	39 - 130
Acenaphthylene	655	520		ug/Kg		79	38 - 130
Anthracene	655	482		ug/Kg		73	37 - 130
Benzo[a]anthracene	655	522		ug/Kg		80	40 - 130
Benzo[a]pyrene	655	466		ug/Kg		71	49 - 130
Benzo[b]fluoranthene	655	486		ug/Kg		74	37 - 130
Benzo[g,h,i]perylene	655	453		ug/Kg		69	32 - 130
Benzo[k]fluoranthene	655	519		ug/Kg		79	32 - 130
Chrysene	655	468		ug/Kg		71	41 - 130
Dibenz(a,h)anthracene	655	497		ug/Kg		76	27 - 130
Fluoranthene	655	493		ug/Kg		75	40 - 130
Fluorene	655	484		ug/Kg		74	40 - 130
Indeno[1,2,3-cd]pyrene	655	451		ug/Kg		69	30 - 130
1-Methylnaphthalene	655	512		ug/Kg		78	31 - 130
2-Methylnaphthalene	655	471		ug/Kg		72	33 - 130
Naphthalene	655	452		ug/Kg		69	36 - 130
Phenanthrene	655	436		ug/Kg		67	42 - 130
Pyrene	655	525		ug/Kg		80	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

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

Lab Sample ID: LCS 660-136235/2-A

Matrix: Solid

Analysis Batch: 136309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136235

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	77		30 - 130

Lab Sample ID: 680-88913-2 MS

Matrix: Solid

Analysis Batch: 136318

Client Sample ID: CV0116B-CS-SP

Prep Type: Total/NA

Prep Batch: 136235

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	170	U	1120	576		ug/Kg	☼	51	39 - 130
Acenaphthylene	68	U	1120	602		ug/Kg	☼	54	38 - 130
Anthracene	14	U	1120	628		ug/Kg	☼	56	37 - 130
Benzo[a]anthracene	46		1120	768		ug/Kg	☼	64	40 - 130
Benzo[a]pyrene	18	U	1120	715		ug/Kg	☼	64	49 - 130
Benzo[b]fluoranthene	65		1120	819		ug/Kg	☼	67	37 - 130
Benzo[g,h,i]perylene	44		1120	994		ug/Kg	☼	85	32 - 130
Benzo[k]fluoranthene	27		1120	808		ug/Kg	☼	70	32 - 130
Chrysene	60		1120	827		ug/Kg	☼	68	41 - 130
Dibenz(a,h)anthracene	14	J	1120	1020		ug/Kg	☼	89	27 - 130
Fluoranthene	57		1120	689		ug/Kg	☼	56	40 - 130
Fluorene	34	U	1120	602		ug/Kg	☼	54	40 - 130
Indeno[1,2,3-cd]pyrene	82		1120	931		ug/Kg	☼	76	30 - 130
1-Methylnaphthalene	61	J	1120	694		ug/Kg	☼	56	31 - 130
2-Methylnaphthalene	69		1120	720		ug/Kg	☼	58	33 - 130
Naphthalene	73		1120	670		ug/Kg	☼	53	36 - 130
Phenanthrene	80		1120	654		ug/Kg	☼	51	42 - 130
Pyrene	59		1120	818		ug/Kg	☼	68	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	57		30 - 130

Lab Sample ID: 680-88913-2 MSD

Matrix: Solid

Analysis Batch: 136318

Client Sample ID: CV0116B-CS-SP

Prep Type: Total/NA

Prep Batch: 136235

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	170	U	1130	584		ug/Kg	☼	52	39 - 130	1	40
Acenaphthylene	68	U	1130	612		ug/Kg	☼	54	38 - 130	2	40
Anthracene	14	U	1130	620		ug/Kg	☼	55	37 - 130	1	40
Benzo[a]anthracene	46		1130	761		ug/Kg	☼	63	40 - 130	1	40
Benzo[a]pyrene	18	U	1130	699		ug/Kg	☼	62	49 - 130	2	40
Benzo[b]fluoranthene	65		1130	817		ug/Kg	☼	66	37 - 130	0	40
Benzo[g,h,i]perylene	44		1130	948		ug/Kg	☼	80	32 - 130	5	40
Benzo[k]fluoranthene	27		1130	770		ug/Kg	☼	66	32 - 130	5	40
Chrysene	60		1130	783		ug/Kg	☼	64	41 - 130	6	40
Dibenz(a,h)anthracene	14	J	1130	1000		ug/Kg	☼	88	27 - 130	1	40
Fluoranthene	57		1130	674		ug/Kg	☼	55	40 - 130	2	40
Fluorene	34	U	1130	596		ug/Kg	☼	53	40 - 130	1	40
Indeno[1,2,3-cd]pyrene	82		1130	898		ug/Kg	☼	72	30 - 130	4	40
1-Methylnaphthalene	61	J	1130	708		ug/Kg	☼	57	31 - 130	2	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

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

Lab Sample ID: 680-88913-2 MSD

Matrix: Solid

Analysis Batch: 136318

Client Sample ID: CV0116B-CS-SP

Prep Type: Total/NA

Prep Batch: 136235

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	69		1130	729		ug/Kg	✱	58	33 - 130	1	40
Naphthalene	73		1130	686		ug/Kg	✱	54	36 - 130	2	40
Phenanthrene	80		1130	642		ug/Kg	✱	50	42 - 130	2	40
Pyrene	59		1130	794		ug/Kg	✱	65	44 - 130	3	40
Surrogate	%Recovery	MSD Qualifier	MSD	Limits							
<i>o</i> -Terphenyl	58			30 - 130							

Lab Sample ID: MB 660-136268/1-A

Matrix: Water

Analysis Batch: 136371

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136268

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.0	U	2.0	0.50	ug/L		04/09/13 14:11	04/11/13 12:06	1
Acenaphthylene	1.0	U	1.0	0.25	ug/L		04/09/13 14:11	04/11/13 12:06	1
Anthracene	0.20	U	0.20	0.076	ug/L		04/09/13 14:11	04/11/13 12:06	1
Benzo[a]anthracene	0.20	U	0.20	0.050	ug/L		04/09/13 14:11	04/11/13 12:06	1
Benzo[a]pyrene	0.20	U	0.20	0.057	ug/L		04/09/13 14:11	04/11/13 12:06	1
Benzo[b]fluoranthene	0.20	U	0.20	0.050	ug/L		04/09/13 14:11	04/11/13 12:06	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.10	ug/L		04/09/13 14:11	04/11/13 12:06	1
Benzo[k]fluoranthene	0.20	U	0.20	0.057	ug/L		04/09/13 14:11	04/11/13 12:06	1
Chrysene	0.20	U	0.20	0.069	ug/L		04/09/13 14:11	04/11/13 12:06	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.050	ug/L		04/09/13 14:11	04/11/13 12:06	1
Fluoranthene	0.50	U	0.50	0.054	ug/L		04/09/13 14:11	04/11/13 12:06	1
Fluorene	2.0	U	2.0	0.50	ug/L		04/09/13 14:11	04/11/13 12:06	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050	ug/L		04/09/13 14:11	04/11/13 12:06	1
1-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		04/09/13 14:11	04/11/13 12:06	1
2-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		04/09/13 14:11	04/11/13 12:06	1
Naphthalene	2.0	U	2.0	0.25	ug/L		04/09/13 14:11	04/11/13 12:06	1
Phenanthrene	0.50	U	0.50	0.20	ug/L		04/09/13 14:11	04/11/13 12:06	1
Pyrene	0.50	U	0.50	0.089	ug/L		04/09/13 14:11	04/11/13 12:06	1
Surrogate	%Recovery	MB Qualifier	MB	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	86			30 - 130			04/09/13 14:11	04/11/13 12:06	1

Lab Sample ID: LCS 660-136268/2-A

Matrix: Water

Analysis Batch: 136371

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	10.0	8.24		ug/L		82	55 - 132
Acenaphthylene	10.0	8.69		ug/L		87	39 - 130
Anthracene	10.0	8.08		ug/L		81	39 - 130
Benzo[a]anthracene	10.0	7.89		ug/L		79	54 - 135
Benzo[a]pyrene	10.0	4.96		ug/L		50	21 - 130
Benzo[b]fluoranthene	10.0	6.35		ug/L		63	37 - 130
Benzo[g,h,i]perylene	10.0	3.68		ug/L		37	26 - 130
Benzo[k]fluoranthene	10.0	5.91		ug/L		59	38 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

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

Lab Sample ID: LCS 660-136268/2-A

Matrix: Water

Analysis Batch: 136371

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	10.0	7.58		ug/L		76	56 - 130
Dibenz(a,h)an hracene	10.0	3.12		ug/L		31	13 - 130
Fluoranthene	10.0	9.09		ug/L		91	60 - 130
Fluorene	10.0	8.87		ug/L		89	55 - 140
Indeno[1,2,3-cd]pyrene	10.0	3.29		ug/L		33	21 - 130
1-Methylnaphthalene	10.0	8.81		ug/L		88	49 - 130
2-Methylnaphthalene	10.0	8.45		ug/L		84	48 - 130
Naphthalene	10.0	8.39		ug/L		84	54 - 133
Phenanthrene	10.0	8.48		ug/L		85	60 - 136
Pyrene	10.0	8.18		ug/L		82	60 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	84		30 - 130

Lab Sample ID: 680-88913-17 DU

Matrix: Water

Analysis Batch: 136371

Client Sample ID: 040213-RB-sieve

Prep Type: Total/NA

Prep Batch: 136268

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Acenaphthene	1.9	U	1.9	U	ug/L		NC	35
Acenaphthylene	0.97	U	0.97	U	ug/L		NC	35
Anthracene	0.19	U	0.19	U	ug/L		NC	35
Benzo[a]anthracene	0.19	U	0.19	U	ug/L		NC	35
Benzo[a]pyrene	0.19	U	0.19	U	ug/L		NC	35
Benzo[b]fluoranthene	0.19	U	0.19	U	ug/L		NC	35
Benzo[g,h,i]perylene	0.49	U	0.49	U	ug/L		NC	35
Benzo[k]fluoranthene	0.19	U	0.19	U	ug/L		NC	35
Chrysene	0.19	U	0.19	U	ug/L		NC	35
Dibenz(a,h)an hracene	0.19	U	0.19	U	ug/L		NC	35
Fluoranthene	0.49	U	0.49	U	ug/L		NC	35
Fluorene	1.9	U	1.9	U	ug/L		NC	35
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	U	ug/L		NC	35
1-Methylnaphthalene	1.9	U	1.9	U	ug/L		NC	35
2-Methylnaphthalene	1.9	U	1.9	U	ug/L		NC	35
Naphthalene	1.9	U	1.9	U	ug/L		NC	35
Phenanthrene	0.49	U	0.49	U	ug/L		NC	35
Pyrene	0.49	U	0.49	U	ug/L		NC	35

Surrogate	DU %Recovery	DU Qualifier	Limits
o-Terphenyl	74		30 - 130

QC Association Summary

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

GC/MS Semi VOA

Prep Batch: 136235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-1	CV0116A-CS-SP	Total/NA	Solid	3546	
680-88913-2	CV0116B-CS-SP	Total/NA	Solid	3546	
680-88913-2 MS	CV0116B-CS-SP	Total/NA	Solid	3546	
680-88913-2 MSD	CV0116B-CS-SP	Total/NA	Solid	3546	
680-88913-3	CV0501A-CS-SP	Total/NA	Solid	3546	
680-88913-4	CV0501B-CS-SP	Total/NA	Solid	3546	
680-88913-5	FM0128A-CS-SP	Total/NA	Solid	3546	
680-88913-6	FM0128B-CS-SP	Total/NA	Solid	3546	
680-88913-7	HP0219A-CS	Total/NA	Solid	3546	
680-88913-8	FM0207A-CS	Total/NA	Solid	3546	
680-88913-9	FM0207A-CSD	Total/NA	Solid	3546	
680-88913-10	FM0207B-CS	Total/NA	Solid	3546	
680-88913-11	FM0207C-CS	Total/NA	Solid	3546	
680-88913-12	FM0207D-CS	Total/NA	Solid	3546	
680-88913-13	FM0321A-CS	Total/NA	Solid	3546	
680-88913-14	FM0321B-CS	Total/NA	Solid	3546	
680-88913-15	FM0326A-CS	Total/NA	Solid	3546	
680-88913-16	FM0326B-CS	Total/NA	Solid	3546	
LCS 660-136235/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136235/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-17	040213-RB-sieve	Total/NA	Water	3520C	
680-88913-17 DU	040213-RB-sieve	Total/NA	Water	3520C	
LCS 660-136268/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 660-136268/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 136309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-136235/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136235

Analysis Batch: 136318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-1	CV0116A-CS-SP	Total/NA	Solid	8270C LL	136235
680-88913-2	CV0116B-CS-SP	Total/NA	Solid	8270C LL	136235
680-88913-2 MS	CV0116B-CS-SP	Total/NA	Solid	8270C LL	136235
680-88913-2 MSD	CV0116B-CS-SP	Total/NA	Solid	8270C LL	136235
680-88913-3	CV0501A-CS-SP	Total/NA	Solid	8270C LL	136235
680-88913-4	CV0501B-CS-SP	Total/NA	Solid	8270C LL	136235
680-88913-5	FM0128A-CS-SP	Total/NA	Solid	8270C LL	136235
680-88913-6	FM0128B-CS-SP	Total/NA	Solid	8270C LL	136235
680-88913-7	HP0219A-CS	Total/NA	Solid	8270C LL	136235
680-88913-8	FM0207A-CS	Total/NA	Solid	8270C LL	136235
680-88913-9	FM0207A-CSD	Total/NA	Solid	8270C LL	136235
680-88913-10	FM0207B-CS	Total/NA	Solid	8270C LL	136235
680-88913-11	FM0207C-CS	Total/NA	Solid	8270C LL	136235
680-88913-12	FM0207D-CS	Total/NA	Solid	8270C LL	136235
680-88913-13	FM0321A-CS	Total/NA	Solid	8270C LL	136235
680-88913-14	FM0321B-CS	Total/NA	Solid	8270C LL	136235
680-88913-15	FM0326A-CS	Total/NA	Solid	8270C LL	136235

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

GC/MS Semi VOA (Continued)

Analysis Batch: 136318 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-16	FM0326B-CS	Total/NA	Solid	8270C LL	136235
MB 660-136235/1-A	Method Blank	Total/NA	Solid	8270C LL	136235

Analysis Batch: 136371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-17	040213-RB-sieve	Total/NA	Water	8270C LL	136268
680-88913-17 DU	040213-RB-sieve	Total/NA	Water	8270C LL	136268
LCS 660-136268/2-A	Lab Control Sample	Total/NA	Water	8270C LL	136268
MB 660-136268/1-A	Method Blank	Total/NA	Water	8270C LL	136268

General Chemistry

Analysis Batch: 136123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-1	CV0116A-CS-SP	Total/NA	Solid	Moisture	
680-88913-2	CV0116B-CS-SP	Total/NA	Solid	Moisture	
680-88913-2 MS	CV0116B-CS-SP	Total/NA	Solid	Moisture	
680-88913-2 MSD	CV0116B-CS-SP	Total/NA	Solid	Moisture	
680-88913-3	CV0501A-CS-SP	Total/NA	Solid	Moisture	
680-88913-4	CV0501B-CS-SP	Total/NA	Solid	Moisture	
680-88913-5	FM0128A-CS-SP	Total/NA	Solid	Moisture	
680-88913-6	FM0128B-CS-SP	Total/NA	Solid	Moisture	
680-88913-7	HP0219A-CS	Total/NA	Solid	Moisture	
680-88913-8	FM0207A-CS	Total/NA	Solid	Moisture	
680-88913-9	FM0207A-CSD	Total/NA	Solid	Moisture	
680-88913-10	FM0207B-CS	Total/NA	Solid	Moisture	
680-88913-11	FM0207C-CS	Total/NA	Solid	Moisture	
680-88913-12	FM0207D-CS	Total/NA	Solid	Moisture	
680-88913-13	FM0321A-CS	Total/NA	Solid	Moisture	
680-88913-14	FM0321B-CS	Total/NA	Solid	Moisture	
680-88913-15	FM0326A-CS	Total/NA	Solid	Moisture	
680-88913-16	FM0326B-CS	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: CV0116A-CS-SP

Date Collected: 04/01/13 14:30

Date Received: 04/03/13 09:27

Lab Sample ID: 680-88913-1

Matrix: Solid

Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 14:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: CV0116B-CS-SP

Date Collected: 04/01/13 14:40

Date Received: 04/03/13 09:27

Lab Sample ID: 680-88913-2

Matrix: Solid

Percent Solids: 59.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 14:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: CV0501A-CS-SP

Date Collected: 04/01/13 13:50

Date Received: 04/03/13 09:27

Lab Sample ID: 680-88913-3

Matrix: Solid

Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 15:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: CV0501B-CS-SP

Date Collected: 04/01/13 14:00

Date Received: 04/03/13 09:27

Lab Sample ID: 680-88913-4

Matrix: Solid

Percent Solids: 60.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 15:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: FM0128A-CS-SP

Date Collected: 04/01/13 13:20

Date Received: 04/03/13 09:27

Lab Sample ID: 680-88913-5

Matrix: Solid

Percent Solids: 71.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 16:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0128B-CS-SP

Lab Sample ID: 680-88913-6

Date Collected: 04/01/13 13:30

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 16:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: HP0219A-CS

Lab Sample ID: 680-88913-7

Date Collected: 04/01/13 15:20

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 62.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 16:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: FM0207A-CS

Lab Sample ID: 680-88913-8

Date Collected: 04/01/13 14:25

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 67.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 16:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: FM0207A-CSD

Lab Sample ID: 680-88913-9

Date Collected: 04/01/13 14:30

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 57.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 17:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: FM0207B-CS

Lab Sample ID: 680-88913-10

Date Collected: 04/01/13 14:37

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 17:28	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0207C-CS

Lab Sample ID: 680-88913-11

Date Collected: 04/01/13 14:42

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 17:43	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: FM0207D-CS

Lab Sample ID: 680-88913-12

Date Collected: 04/01/13 14:51

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 17:58	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: FM0321A-CS

Lab Sample ID: 680-88913-13

Date Collected: 04/01/13 12:58

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 18:13	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: FM0321B-CS

Lab Sample ID: 680-88913-14

Date Collected: 04/01/13 13:05

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 18:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: FM0326A-CS

Lab Sample ID: 680-88913-15

Date Collected: 04/01/13 13:35

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136318	04/10/13 18:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

Client Sample ID: FM0326B-CS

Lab Sample ID: 680-88913-16

Date Collected: 04/01/13 13:44

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136235	04/08/13 15:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136318	04/10/13 18:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: 040213-RB-sieve

Lab Sample ID: 680-88913-17

Date Collected: 04/02/13 09:10

Matrix: Water

Date Received: 04/03/13 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			136268	04/09/13 14:11	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	136371	04/11/13 13:14	SCC	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 63541

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

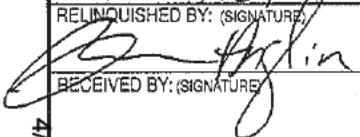
☐ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35th Ave Removal	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS										PAGE 1	OF 2
TAL (LAB) PROJECT MANAGER Lisa Harvey	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR UNAD (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH	Rock Minerals										STANDARD REPORT DELIVERY ☐
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX													DATE DUE _____
CLIENT NAME (b) (6)	CLIENT E-MAIL														EXPEDITED REPORT DELIVERY (SURCHARGE) ☐
CLIENT ADDRESS (b) (6)															DATE DUE _____
COMPANY CONTRACT															NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

Page 25 of 30

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR UNAD (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME																	
4-1-13	1430	CV0116A - CS - SP	C	X			X											
4-1-13	1440	CV0116B - CS - SP	C	X			X	X										
	1350	CV0501A - CS - SP	C	X			X											
	1400	CV0501B - CS - SP	C	X			X	X										
	1320	FM0128A - CS - SP	C	X			X											
	1330	FM0128B - CS - SP	C	X			X											
	1520	HP0219A - CS	C	X			X											
	1425	FM0207A - CS	C	X			X											
	1430	FM0207A - CSD	C	X			X											
	1437	FM0207B - CS	C	X			X											
	1442	FM0207C - CS	C	X			X											
	1451	FM0207D - CS	C	X			X											

RELINQUISHED BY: (SIGNATURE) 	DATE 4-2-13	TIME 1300	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY									
RECEIVED FOR LABORATORY BY: (SIGNATURE) 	DATE 04/02/13	TIME 0921	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO.	SAVANNAH LOG NO. 88913	LABORATORY REMARKS 20°C			

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☒ **TestAmerica Savannah**
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

☐ Alternate Laboratory Name/Location

Phone:
Fax:

[illegible]

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-1

SDG Number: 680088913-1

Login Number: 88913

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-1

SDG Number: 680088913-1

Login Number: 88913

List Number: 1

Creator: Snead, Joshua

List Source: TestAmerica Tampa

List Creation: 04/04/13 11:11 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 $<6\text{mm}$ (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: 680-88913-1
SDG: 680088913-1

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
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
Guam	State Program	9	09-005r	04-17-13
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.

TestAmerica Savannah

Certification Summary

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

TestAmerica Job ID: 680-88913-1
SDG: 680088913-1

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