REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-88980-2
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	04/02/2013
Reviewer:	Karen Marie Trujillo	Date:	04/23/2013
Concurrence[2]:	Nicole Lancaster / Martha Meyers-Lee	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.		✓		Samples were received by TestAmerica Savannah, GA on 4/4/2103 at 2.8°C; however, samples were repackaged and shipped to TestAmerica Tampa, FL on 4/8/2013 at 11.5°C. Sample temperatures were >6°C; therefore, all samples results are considered estimated (J, UJ). Refer to **Attachment C** (Case Narrative).	J,UJ
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)?	✓				

[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
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).	
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 Test America Job ID 680-88913-1.	
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?	✓			CV0151A-CSD (680-88980-22) is a field duplicate of CV0151A-CS (680-88980-21).	
15. Was precision deemed acceptable as defined by the project plans?	✓				
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• Instrument ID: BSMC5973 • Initial Calibration: 04/11/2013 • ICV: 04/11/13 @ 14:25	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with no individual CCC	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
%RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			Prep Batch 136266: 680-88980-21 (CV0151A-CS), MS/MSD	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results		✓		CV0151A-CS (680-88980-21): • Acenaphthene @ 35 and 60%R (39-130). Qualification of data not required[3]. • Benzo[a]anthracene @ 36 and 54%R (40-130). Qualification of data not required[3]. • Benzo[a]pyrene @ 32 and 56%R (49-130). Qualification of data not required[3]. • Benzo[b]fluoranthene @ 35 and 60%R (37-130). Qualification of data not required[3]. • Chrysene @ 37 and 59%R (41-130). Qualification of data not required[3]. • Naphthalene @ 28 and 54%R (36-130). Qualification of data not required[3].	

[3] The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				• Phenanthrene @ 34 and 58%R (42-130). Qualification of data not required[3]. • Pyrene @ 37 and 62%R (44-130). Qualification of data not required[3].	
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result		✓		CV0151A-CS (680-88980-21): • Acenaphthene @ 53%RPD (≤40), J-Flag • Acenaphthylene @ 45%RPD (≤40), J-Flag • Anthracene @ 42%RPD (≤40), J-Flag • Benzo[a]pyrene @ 52%RPD (≤40), J-Flag • Benzo[b]fluoranthene @ 44%RPD (≤40), J-Flag • Benzo[g,h,i]perlyene @ 42%RPD (≤40), J-Flag • Benzo[k]fluoranthene @ 42%RPD (≤40), J-Flag • Chrysene @ 43%RPD (≤40), J-Flag • Fluorene @ 55%RPD (≤40), J-Flag • Napthalene @ 54%RPD (≤40), J-Flag • Phenanthrene @ 46%RPD (≤40), J-Flag • Pyrene @ 46%RPD (≤40), J-Flag	J
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	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	
Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

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

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

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

TestAmerica Job ID: 680-88980-2
SDG: 68088980-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88980-21	CV0151A-CS	Solid	04/02/13 13:20	04/04/13 09:52
680-88980-22	CV0151A-CSD	Solid	04/02/13 13:25	04/04/13 09:52
680-88980-23	CV0151B-CS	Solid	04/02/13 13:33	04/04/13 09:52
680-88980-24	CV1236A-CS	Solid	04/02/13 14:55	04/04/13 09:52
680-88980-25	CV1236B-CS	Solid	04/02/13 15:05	04/04/13 09:52

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV0151A-CS 680-88980-21	RL	CV0151A-CSD 680-88980-22	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	9.3 J	54		58	µg/kg	280	NA	9.3	112	None, absolute difference ≤ 2x Avg RL
Anthracene	16	11	11 J	12	µg/kg	57.5	NA	5	23	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	40	11	37	12	µg/kg	57.5	NA	3	23	None, absolute difference ≤ 2x Avg RL
Benzo(a)pyrene	14	14	19	15	µg/kg	72.5	NA	5	29	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	69	17	53	18	µg/kg	87.5	NA	16	35	None, absolute difference ≤ 2x Avg RL
Benzo(g,h,i)perylene	40	27	20 J	29	µg/kg	140	NA	20	56	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	19	11	18	12	µg/kg	57.5	NA	1	23	None, absolute difference ≤ 2x Avg RL
Chrysene	33	12	28	13	µg/kg	62.5	NA	5	25	None, absolute difference ≤ 2x Avg RL
Fluoranthene	37	27	34	29	µg/kg	140	NA	3	56	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	37 J	54	14 J	58	µg/kg	280	NA	23	112	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	82	54	69	58	µg/kg	280	NA	13	112	None, absolute difference ≤ 2x Avg RL
Naphthalene	64	54	38 J	58	µg/kg	280	NA	26	112	None, absolute difference ≤ 2x Avg RL
Phenanthrene	55	11	42	12	µg/kg	57.5	NA	13	23	None, absolute difference ≤ 2x Avg RL
Pyrene	51	27	29	29	µg/kg	140	NA	22	56	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
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference

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

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-88980-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88980-2

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

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

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

RECEIPT

The samples were received on 04/04/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C. The samples were repackaged and shipped to the TestAmerica Tampa facility where the cooler was received cooler in Tampa on 4/8/13 at 11.5 C. FEDEX did not deliver on Friday 04/05/2013 as requested. The cooler wasdelivered on the next standard delivery day. Client was notified.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0151A-CS (680-88980-21), CV0151A-CSD (680-88980-22), CV0151B-CS (680-88980-23), CV1236A-CS (680-88980-24) and CV1236B-CS (680-88980-25) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/09/2013 and analyzed on 04/11/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0151A-CS (680-88980-21) in batch 660-136370.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample ID: CV0151A-CS

Lab Sample ID: 680-88980-21

Date Collected: 04/02/13 13:20
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 71.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	~~U F~~ UJ	140	27	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Acenaphthylene	**9.3**	~~J F~~ J	54	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Anthracene	**16**	~~F~~ J	11	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Benzo[a]anthracene	**40**	~~F~~ J	11	5.3	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Benzo[a]pyrene	**14**	~~F~~ J	14	7.1	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Benzo[b]fluoranthene	**69**	~~F~~ J	17	8.3	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Benzo[g,h,i]perylene	**40**	~~F~~ J	27	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Benzo[k]fluoranthene	**19**	~~F~~ J	11	4.9	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Chrysene	**33**	~~F~~ J	12	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Dibenz(a,h)anthracene	27	~~U~~ UJ	27	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Fluoranthene	**37**	J	27	5.4	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Fluorene	27	~~U F~~ UJ	27	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Indeno[1,2,3-cd]pyrene	27	~~U~~ UJ	27	9.7	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
1-Methylnaphthalene	**37**	~~J F~~ J	54	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
2-Methylnaphthalene	**82**	J	54	9.7	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Naphthalene	**64**	~~F~~ J	54	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Phenanthrene	**55**	~~F~~ J	11	5.3	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Pyrene	**51**	~~F~~ J	27	5.0	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*30 - 130*	*04/09/13 13:55*	*04/11/13 15:28*	*1*

Client Sample ID: CV0151A-CSD

Lab Sample ID: 680-88980-22

Date Collected: 04/02/13 13:25
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 68.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	~~U~~ UJ	150	29	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Acenaphthylene	58	~~U~~ UJ	58	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Anthracene	**11**	~~J~~ J	12	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Benzo[a]anthracene	**37**	J	12	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Benzo[a]pyrene	**19**	J	15	7.6	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Benzo[b]fluoranthene	**53**	J	18	8.9	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Benzo[g,h,i]perylene	**20**	~~J~~ J	29	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Benzo[k]fluoranthene	**18**	J	12	5.2	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Chrysene	**28**	J	13	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Dibenz(a,h)anthracene	29	~~U~~ UJ	29	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Fluoranthene	**34**	J	29	5.8	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Fluorene	29	~~U~~ UJ	29	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Indeno[1,2,3-cd]pyrene	29	~~U~~ UJ	29	10	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
1-Methylnaphthalene	**14**	~~J~~ J	58	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
2-Methylnaphthalene	**69**	J	58	10	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Naphthalene	**38**	~~J~~ J	58	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Phenanthrene	**42**	J	12	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Pyrene	**29**	J	29	5.4	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/09/13 13:55*	*04/11/13 16:23*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88980-2
SDG: 68088980-2

Client Sample ID: CV0151B-CS

Lab Sample ID: 680-88980-23
Date Collected: 04/02/13 13:33
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U UJ	130	27	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Acenaphthylene	53	U	53	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Anthracene	11	U	11	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Benzo[a]anthracene	**24**	J	11	5.2	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Benzo[a]pyrene	**19**	J	14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Benzo[b]fluoranthene	**36**	J	16	8.1	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Benzo[g,h,i]perylene	**22**	J	27	5.9	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Benzo[k]fluoranthene	**17**	J	11	4.8	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Chrysene	**48**	J	12	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Dibenz(a,h)anthracene	27	U UJ	27	5.5	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Fluoranthene	**46**	J	27	5.3	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Fluorene	27	U UJ	27	5.5	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Indeno[1,2,3-cd]pyrene	27	U UJ	27	9.4	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
1-Methylnaphthalene	**25**	J	53	5.9	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
2-Methylnaphthalene	**65**	J	53	9.4	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Naphthalene	**46**	J	53	5.9	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Phenanthrene	**49**	J	11	5.2	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Pyrene	**31**	J	27	4.9	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/09/13 13:55*	*04/11/13 16:41*	*1*

Client Sample ID: CV1236A-CS

Lab Sample ID: 680-88980-24
Date Collected: 04/02/13 14:55
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 64.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U UJ	150	31	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Acenaphthylene	62	U	62	7.7	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Anthracene	13	U	13	6.5	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Benzo[a]anthracene	**44**	J	12	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Benzo[a]pyrene	**34**	J	16	8.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Benzo[b]fluoranthene	**73**	J	19	9.5	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Benzo[g,h,i]perylene	**29**	J	31	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Benzo[k]fluoranthene	**21**	J	12	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Chrysene	**30**	J	14	7.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Dibenz(a,h)anthracene	31	U UJ	31	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Fluoranthene	**55**	J	31	6.2	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Fluorene	31	U UJ	31	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Indeno[1,2,3-cd]pyrene	31	U UJ	31	11	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
1-Methylnaphthalene	**8.4**	J	62	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
2-Methylnaphthalene	**43**	J	62	11	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Naphthalene	**37**	J	62	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Phenanthrene	**54**	J	12	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Pyrene	**58**	J	31	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*04/09/13 13:55*	*04/11/13 17:00*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-88980-2
SDG: 68088980-2

Client Sample ID: CV1236B-CS
Date Collected: 04/02/13 15:05
Date Received: 04/04/13 09:52

Lab Sample ID: 680-88980-25
Matrix: Solid
Percent Solids: 55.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	~~U~~ UJ	180	35	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Acenaphthylene	71	~~U~~ UJ	71	8.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Anthracene	**49**	J	15	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Benzo[a]anthracene	**240**	J	14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Benzo[a]pyrene	**220**	J	18	9.2	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Benzo[b]fluoranthene	**450**	J	22	11	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Benzo[g,h,i]perylene	**160**	J	35	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Benzo[k]fluoranthene	**130**	J	14	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Chrysene	**260**	J	16	7.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Dibenz(a,h)anthracene	**110**	J	35	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Fluoranthene	**280**	J	35	7.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Fluorene	**22**	~~J~~ J	35	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Indeno[1,2,3-cd]pyrene	**180**	J	35	13	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
1-Methylnaphthalene	**47**	~~J~~ J	71	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
2-Methylnaphthalene	**92**	J	71	13	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Naphthalene	**69**	~~J~~ J	71	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Phenanthrene	**190**	J	14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Pyrene	**290**	J	35	6.5	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/09/13 13:55*	*04/11/13 17:18*	*1*

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-88980-2

SDG Number: 68088980-2

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
4/12/2013 3:49 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
04/12/2013

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

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NELAP ACCREDITED TNI LABORATORY

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88980-2

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

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

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

RECEIPT

The samples were received on 04/04/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C. The samples were repackaged and shipped to the TestAmerica Tampa facility where the cooler was received cooler in Tampa on 4/8/13 at 11.5 C. FEDEX did not deliver on Friday 04/05/2013 as requested. The cooler wasdelivered on the next standard delivery day. Client was notified.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0151A-CS (680-88980-21), CV0151A-CSD (680-88980-22), CV0151B-CS (680-88980-23), CV1236A-CS (680-88980-24) and CV1236B-CS (680-88980-25) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/09/2013 and analyzed on 04/11/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0151A-CS (680-88980-21) in batch 660-136370.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-2
Sdg Number: 68088980-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88980-21	CV0151A-CS	Solid	04/02/2013 1320	04/04/2013 0952
680-88980-21MS	CV0151A-CS	Solid	04/02/2013 1320	04/04/2013 0952
680-88980-21MSD	CV0151A-CS	Solid	04/02/2013 1320	04/04/2013 0952
680-88980-22	CV0151A-CSD	Solid	04/02/2013 1325	04/04/2013 0952
680-88980-23	CV0151B-CS	Solid	04/02/2013 1333	04/04/2013 0952
680-88980-24	CV1236A-CS	Solid	04/02/2013 1455	04/04/2013 0952
680-88980-25	CV1236B-CS	Solid	04/02/2013 1505	04/04/2013 0952

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-2
Sdg Number: 68088980-2

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-2
Sdg Number: 68088980-2

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-2
Sdg Number: 68088980-2

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-2
Sdg Number: 68088980-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136266					
LCS 660-136266/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136266/1-A	Method Blank	T	Solid	3546	
680-88980-21	CV0151A-CS	T	Solid	3546	
680-88980-21MS	Matrix Spike	T	Solid	3546	
680-88980-21MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88980-22	CV0151A-CSD	T	Solid	3546	
680-88980-23	CV0151B-CS	T	Solid	3546	
680-88980-24	CV1236A-CS	T	Solid	3546	
680-88980-25	CV1236B-CS	T	Solid	3546	
Analysis Batch:660-136370					
LCS 660-136266/2-A	Lab Control Sample	T	Solid	8270C LL	660-136266
MB 660-136266/1-A	Method Blank	T	Solid	8270C LL	660-136266
680-88980-21	CV0151A-CS	T	Solid	8270C LL	660-136266
680-88980-21MS	Matrix Spike	T	Solid	8270C LL	660-136266
680-88980-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136266
680-88980-22	CV0151A-CSD	T	Solid	8270C LL	660-136266
680-88980-23	CV0151B-CS	T	Solid	8270C LL	660-136266
680-88980-24	CV1236A-CS	T	Solid	8270C LL	660-136266
680-88980-25	CV1236B-CS	T	Solid	8270C LL	660-136266

Report Basis
T = Total

General Chemistry

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Analysis Batch:660-136226					
680-88980-A-8 MS	Matrix Spike	T	Solid	Moisture	
680-88980-A-8 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88980-21	CV0151A-CS	T	Solid	Moisture	
680-88980-21MS	Matrix Spike	T	Solid	Moisture	
680-88980-21MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88980-22	CV0151A-CSD	T	Solid	Moisture	
680-88980-23	CV0151B-CS	T	Solid	Moisture	
680-88980-24	CV1236A-CS	T	Solid	Moisture	
680-88980-25	CV1236B-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Instrument ID: BSMC5973 Analysis Batch Number: 136370

Lab Sample ID: ICIS 660-136370/3 Client Sample ID:

Date Analyzed: 04/11/13 11:56 Lab File ID: 1CD11003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 12:40

Lab Sample ID: IC 660-136370/4 Client Sample ID:

Date Analyzed: 04/11/13 12:35 Lab File ID: 1CD11004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.29	Baseline Event	cantins	04/11/13 14:33

Lab Sample ID: IC 660-136370/5 Client Sample ID:

Date Analyzed: 04/11/13 12:53 Lab File ID: 1CD11005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/13 14:34
Dibenz(a,h)anthracene	9.94	Baseline Event	cantins	04/11/13 14:33

Lab Sample ID: IC 660-136370/6 Client Sample ID:

Date Analyzed: 04/11/13 13:11 Lab File ID: 1CD11006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/13 14:35

Lab Sample ID: IC 660-136370/7 Client Sample ID:

Date Analyzed: 04/11/13 13:30 Lab File ID: 1CD11007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:36

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Instrument ID: BSMC5973 Analysis Batch Number: 136370

Lab Sample ID: IC 660-136370/8 Client Sample ID:

Date Analyzed: 04/11/13 13:48 Lab File ID: 1CD11008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:36

Lab Sample ID: IC 660-136370/9 Client Sample ID:

Date Analyzed: 04/11/13 14:06 Lab File ID: 1CD11009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:37

Lab Sample ID: ICV 660-136370/10 Client Sample ID:

Date Analyzed: 04/11/13 14:25 Lab File ID: 1CD11010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/13 14:46

Lab Sample ID: LCS 660-136266/2-A Client Sample ID:

Date Analyzed: 04/11/13 15:10 Lab File ID: 1CD11012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/12/13 09:54

Lab Sample ID: 680-88980-21 Client Sample ID: CV0151A-CS

Date Analyzed: 04/11/13 15:28 Lab File ID: 1CD11013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.46	Split Peak	cantins	04/12/13 09:55
Benzo[k]fluoranthene	8.49	Baseline Event	cantins	04/12/13 09:56
Benzo[g,h,i]perylene	10.25	Baseline Event	cantins	04/12/13 09:56

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Instrument ID: BSMC5973 Analysis Batch Number: 136370

Lab Sample ID: 680-88980-21 MS Client Sample ID: CV0151A-CS MS

Date Analyzed: 04/11/13 15:46 Lab File ID: 1CD11014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/12/13 09:57

Lab Sample ID: 680-88980-21 MSD Client Sample ID: CV0151A-CS MSD

Date Analyzed: 04/11/13 16:05 Lab File ID: 1CD11015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/12/13 09:58
Dibenz(a,h)anthracene	9.94	Baseline Event	cantins	04/12/13 09:58

Lab Sample ID: 680-88980-23 Client Sample ID: CV0151B-CS

Date Analyzed: 04/11/13 16:41 Lab File ID: 1CD11017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.26	Baseline Event	cantins	04/12/13 10:00

Lab Sample ID: 680-88980-24 Client Sample ID: CV1236A-CS

Date Analyzed: 04/11/13 17:00 Lab File ID: 1CD11018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.46	Split Peak	cantins	04/12/13 10:01
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/12/13 10:01

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Instrument ID: BSMC5973 Analysis Batch Number: 136370

Lab Sample ID: 680-88980-25 Client Sample ID: CV1236B-CS

Date Analyzed: 04/11/13 17:18 Lab File ID: 1CD11019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.47	Baseline Event	cantins	04/12/13 10:04
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/12/13 10:04
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/12/13 10:05
Dibenz(a,h)anthracene	9.93	Baseline Event	cantins	04/12/13 10:04
Benzo[g,h,i]perylene	10.26	Baseline Event	cantins	04/12/13 10:05

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.: 680-88980-2

SDG No.: 68088980-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0151A-CS	680-88980-21	88
CV0151A-CSD	680-88980-22	56
CV0151B-CS	680-88980-23	56
CV1236A-CS	680-88980-24	73
CV1236B-CS	680-88980-25	50
	MB 660-136266/1-A	69
	LCS 660-136266/2-A	61
CV0151A-CS MS	680-88980-21 MS	41
CV0151A-CS MSD	680-88980-21 MSD	59

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Matrix: Solid Level: Low Lab File ID: 1CD11012.D

Lab ID: LCS 660-136266/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	649	362	56	39-130	
Acenaphthylene	649	425	66	38-130	
Anthracene	649	401	62	37-130	
Benzo[a]anthracene	649	375	58	40-130	
Benzo[a]pyrene	649	321	49	49-130	
Benzo[b]fluoranthene	649	499	77	37-130	
Benzo[g,h,i]perylene	649	380	59	32-130	
Benzo[k]fluoranthene	649	394	61	32-130	
Chrysene	649	359	55	41-130	
Dibenz(a,h)anthracene	649	403	62	27-130	
Fluoranthene	649	453	70	40-130	
Fluorene	649	396	61	40-130	
Indeno[1,2,3-cd]pyrene	649	356	55	30-130	
1-Methylnaphthalene	649	338	52	31-130	
2-Methylnaphthalene	649	365	56	33-130	
Naphthalene	649	384	59	36-130	
Phenanthrene	649	366	56	42-130	
Pyrene	649	398	61	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Matrix: Solid Level: Low Lab File ID: 1CD11014.D

Lab ID: 680-88980-21 MS Client ID: CV0151A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	908	140 U	316	35	39-130	F
Acenaphthylene	908	9.3 J	370	40	38-130	
Anthracene	908	16	372	39	37-130	
Benzo[a]anthracene	908	40	366	36	40-130	F
Benzo[a]pyrene	908	14	308	32	49-130	F
Benzo[b]fluoranthene	908	69	390	35	37-130	F
Benzo[g,h,i]perylene	908	40	335	33	32-130	
Benzo[k]fluoranthene	908	19	338	35	32-130	
Chrysene	908	33	365	37	41-130	F
Dibenz(a,h)anthracene	908	27 U	372	41	27-130	
Fluoranthene	908	37	400	40	40-130	
Fluorene	908	27 U	338	37	40-130	F
Indeno[1,2,3-cd]pyrene	908	27 U	362	40	30-130	
1-Methylnaphthalene	908	37 J	328	32	31-130	
2-Methylnaphthalene	908	82	377	33	33-130	
Naphthalene	908	64	320	28	36-130	F
Phenanthrene	908	55	362	34	42-130	F
Pyrene	908	51	385	37	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Matrix: Solid Level: Low Lab File ID: 1CD11015.D

Lab ID: 680-88980-21 MSD Client ID: CV0151A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	908	545	60	53	40	39-130	F
Acenaphthylene	908	581	63	45	40	38-130	F
Anthracene	908	568	61	42	40	37-130	F
Benzo[a]anthracene	908	531	54	37	40	40-130	
Benzo[a]pyrene	908	523	56	52	40	49-130	F
Benzo[b]fluoranthene	908	610	60	44	40	37-130	F
Benzo[g,h,i]perylene	908	515	52	42	40	32-130	F
Benzo[k]fluoranthene	908	518	55	42	40	32-130	F
Chrysene	908	568	59	43	40	41-130	F
Dibenz(a,h)anthracene	908	544	60	37	40	27-130	
Fluoranthene	908	582	60	37	40	40-130	
Fluorene	908	596	66	55	40	40-130	F
Indeno[1,2,3-cd]pyrene	908	537	59	39	40	30-130	
1-Methylnaphthalene	908	555	57	52	40	31-130	F
2-Methylnaphthalene	908	564	53	40	40	33-130	
Naphthalene	908	556	54	54	40	36-130	F
Phenanthrene	908	578	58	46	40	42-130	F
Pyrene	908	612	62	46	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Lab File ID: 1CD11011.D Lab Sample ID: MB 660-136266/1-A

Matrix: Solid Date Extracted: 04/09/2013 13:55

Instrument ID: BSMC5973 Date Analyzed: 04/11/2013 14:51

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136266/2-A	1CD11012.D	04/11/2013 15:10
CV0151A-CS	680-88980-21	1CD11013.D	04/11/2013 15:28
CV0151A-CS MS	680-88980-21 MS	1CD11014.D	04/11/2013 15:46
CV0151A-CS MSD	680-88980-21 MSD	1CD11015.D	04/11/2013 16:05
CV0151A-CSD	680-88980-22	1CD11016.D	04/11/2013 16:23
CV0151B-CS	680-88980-23	1CD11017.D	04/11/2013 16:41
CV1236A-CS	680-88980-24	1CD11018.D	04/11/2013 17:00
CV1236B-CS	680-88980-25	1CD11019.D	04/11/2013 17:18

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

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Lab File ID: 1CD11002.D DFTPP Injection Date: 04/11/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:38

Analysis Batch No.: 136370

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	38.7	
68	Less than 2.0 % of mass 69	0.6	(1.3)1
69	Mass 69 relative abundance	48.8	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	45.9	
197	Less than 2.0 % of mass 198	0.8	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.8	
275	10.0 - 60.0 % of mass 198	20.8	
365	Greater than 1.0 % of mass 198	5.1	
441	Present but less than mass 443	10.4	
442	Greater than 50.0 % of mass 198	76.7	
443	15.0 - 24.0 % of mass 442	16.1	(20.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-136370/3	1CD11003.D	04/11/2013	11:56
	IC 660-136370/4	1CD11004.D	04/11/2013	12:35
	IC 660-136370/5	1CD11005.D	04/11/2013	12:53
	IC 660-136370/6	1CD11006.D	04/11/2013	13:11
	IC 660-136370/7	1CD11007.D	04/11/2013	13:30
	IC 660-136370/8	1CD11008.D	04/11/2013	13:48
	IC 660-136370/9	1CD11009.D	04/11/2013	14:06
	ICV 660-136370/10	1CD11010.D	04/11/2013	14:25
	MB 660-136266/1-A	1CD11011.D	04/11/2013	14:51
	LCS 660-136266/2-A	1CD11012.D	04/11/2013	15:10
CV0151A-CS	680-88980-21	1CD11013.D	04/11/2013	15:28
CV0151A-CS MS	680-88980-21 MS	1CD11014.D	04/11/2013	15:46
CV0151A-CS MSD	680-88980-21 MSD	1CD11015.D	04/11/2013	16:05
CV0151A-CSD	680-88980-22	1CD11016.D	04/11/2013	16:23
CV0151B-CS	680-88980-23	1CD11017.D	04/11/2013	16:41
CV1236A-CS	680-88980-24	1CD11018.D	04/11/2013	17:00
CV1236B-CS	680-88980-25	1CD11019.D	04/11/2013	17:18

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

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Sample No.: ICIS 660-136370/3 Date Analyzed: 04/11/2013 11:56

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

Lab File ID (Standard): 1CD11003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		245713	3.68	179699	4.76	320372	5.70
UPPER LIMIT		491426	4.18	359398	5.26	640744	6.20
LOWER LIMIT		122857	3.18	89850	4.26	160186	5.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136370/10		273342	3.67	204687	4.76	380421	5.70
MB 660-136266/1-A		243800	3.67	163859	4.76	301960	5.71
LCS 660-136266/2-A		252075	3.67	174312	4.76	321724	5.70
680-88980-21	CV0151A-CS	238855	3.67	167464	4.76	316471	5.70
680-88980-21 MS	CV0151A-CS MS	296640	3.67	207963	4.76	389509	5.70
680-88980-21 MSD	CV0151A-CS MSD	302058	3.67	211723	4.76	391230	5.70
680-88980-22	CV0151A-CSD	295904	3.67	202366	4.76	384515	5.70
680-88980-23	CV0151B-CS	296465	3.67	209951	4.76	396210	5.70
680-88980-24	CV1236A-CS	280165	3.68	200690	4.76	368742	5.70
680-88980-25	CV1236B-CS	287482	3.67	210594	4.76	389736	5.70

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Sample No.: ICIS 660-136370/3 Date Analyzed: 04/11/2013 11:56

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

Lab File ID (Standard): 1CD11003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		410945	7.65	438804	8.80		
UPPER LIMIT		821890	8.15	877608	9.30		
LOWER LIMIT		205473	7.15	219402	8.30		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136370/10		501991	7.64	491170	8.80		
MB 660-136266/1-A		362954	7.65	389222	8.82		
LCS 660-136266/2-A		412578	7.64	425428	8.80		
680-88980-21	CV0151A-CS	366841	7.64	356891	8.80		
680-88980-21 MS	CV0151A-CS MS	440062	7.64	439786	8.80		
680-88980-21 MSD	CV0151A-CS MSD	454290	7.64	432351	8.80		
680-88980-22	CV0151A-CSD	424877	7.64	427348	8.80		
680-88980-23	CV0151B-CS	450211	7.64	439754	8.80		
680-88980-24	CV1236A-CS	414981	7.64	412394	8.80		
680-88980-25	CV1236B-CS	413187	7.64	412476	8.80		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88980-2

SDG No.: 68088980-2

Client Sample ID: CV0151A-CS | Lab Sample ID: 680-88980-21

Matrix: Solid | Lab File ID: 1CD11013.D

Analysis Method: 8270C LL | Date Collected: 04/02/2013 13:20

Extract. Method: 3546 | Date Extracted: 04/09/2013 13:55

Sample wt/vol: 15.32(g) | Date Analyzed: 04/11/2013 15:28

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

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

% Moisture: 28.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136370 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U F	140	27
208-96-8	Acenaphthylene	9.3	J F	54	6.8
120-12-7	Anthracene	16	F	11	5.7
56-55-3	Benzo[a]anthracene	40	F	11	5.3
50-32-8	Benzo[a]pyrene	14	F	14	7.1
205-99-2	Benzo[b]fluoranthene	69	F	17	8.3
191-24-2	Benzo[g,h,i]perylene	40	F	27	6.0
207-08-9	Benzo[k]fluoranthene	19	F	11	4.9
218-01-9	Chrysene	33	F	12	6.1
53-70-3	Dibenz(a,h)anthracene	27	U	27	5.6
206-44-0	Fluoranthene	37		27	5.4
86-73-7	Fluorene	27	U F	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	27	U	27	9.7
90-12-0	1-Methylnaphthalene	37	J F	54	6.0
91-57-6	2-Methylnaphthalene	82		54	9.7
91-20-3	Naphthalene	64	F	54	6.0
85-01-8	Phenanthrene	55	F	11	5.3
129-00-0	Pyrene	51	F	27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11013.D
Lab Smp Id: 680-88980-A-21-A Client Smp ID: CV0151A-CS
Inj Date : 11-APR-2013 15:28
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-21-a
Misc Info : 680-88980-A-21-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	28.094	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.674	3.675	(1.000)	238855	40.0000	
* 6 Acenaphthene-d10	164	4.762	4.763	(1.000)	167464	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	316471	40.0000	
$ 14 o-Terphenyl	230	5.956	5.957	(1.044)	42549	8.80872	799.6332
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	366841	40.0000	
* 23 Perylene-d12	264	8.797	8.798	(1.000)	356891	40.0000	
2 Naphthalene	128	3.686	3.687	(1.003)	4518	0.69975	63.5212(Q)
3 2-Methylnaphthalene	142	4.115	4.115	(1.120)	2737	0.90655	82.2943
4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	1676	0.40638	36.8899
5 Acenaphthylene	152	4.668	4.675	(0.980)	726	0.10231	9.2874
11 Phenanthrene	178	5.721	5.722	(1.003)	5569	0.60659	55.0646
12 Anthracene	178	5.756	5.757	(1.009)	1669	0.18166	16.4906
13 Carbazole	167	5.862	5.863	(1.028)	1799	0.21024	19.0853
15 Fluoranthene	202	6.556	6.557	(1.150)	4170	0.40618	36.8719

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.721	6.722	(0.880)	5887	0.56409	51.2068
17 Benzo(a)anthracene	228	7.639	7.634	(1.000)	4540	0.43765	39.7289(Q)
19 Chrysene	228	7.656	7.663	(1.002)	3787	0.36903	33.4996
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	6877	0.76291	69.2551(M)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	2095	0.20539	18.6449(QM)
22 Benzo(a)pyrene	252	8.750	8.751	(0.995)	1423	0.15272	13.8633(Q)
26 Benzo(g,h,i)perylene	276	10.250	10.269	(1.165)	3834	0.43899	39.8507(M)

QC Flag Legend

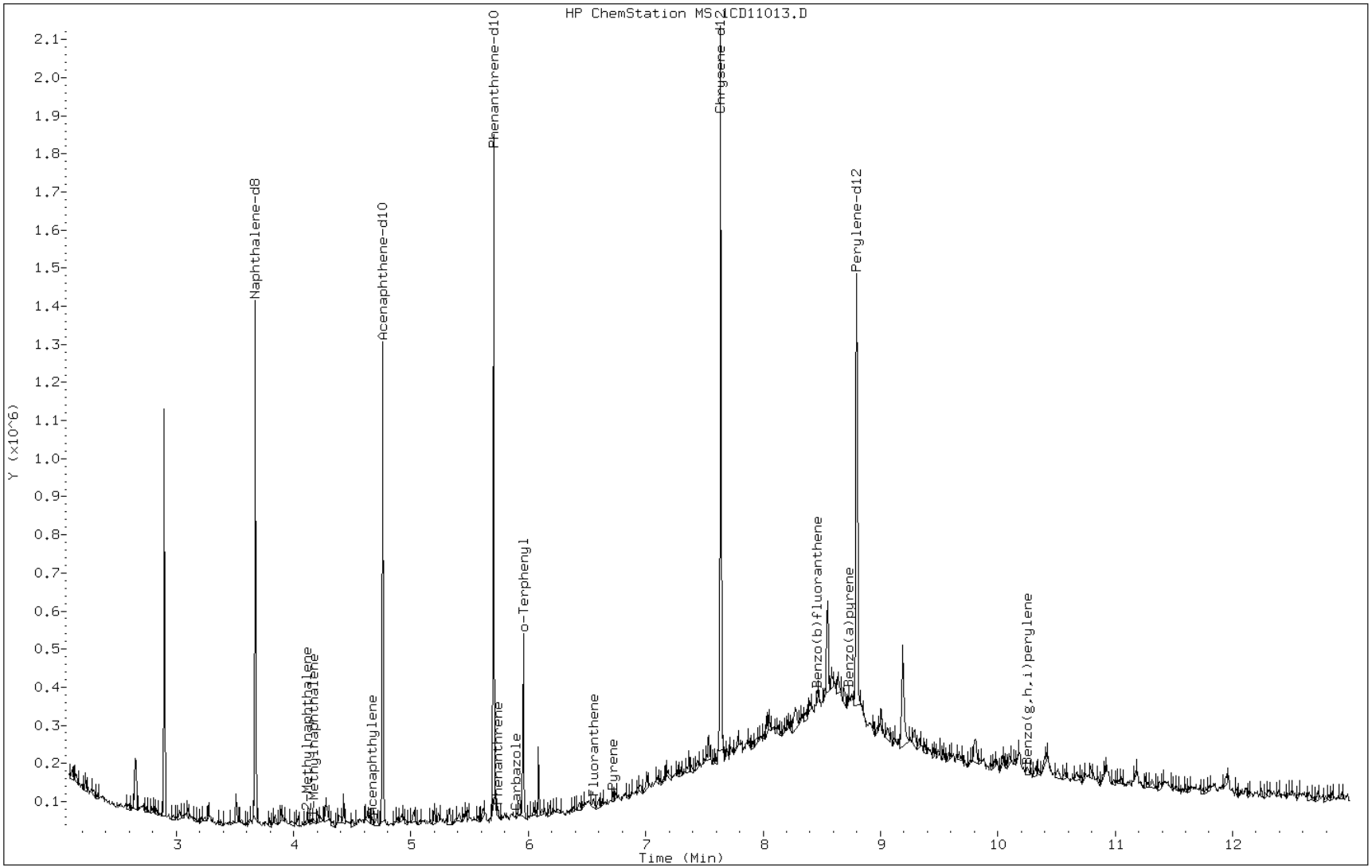
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC



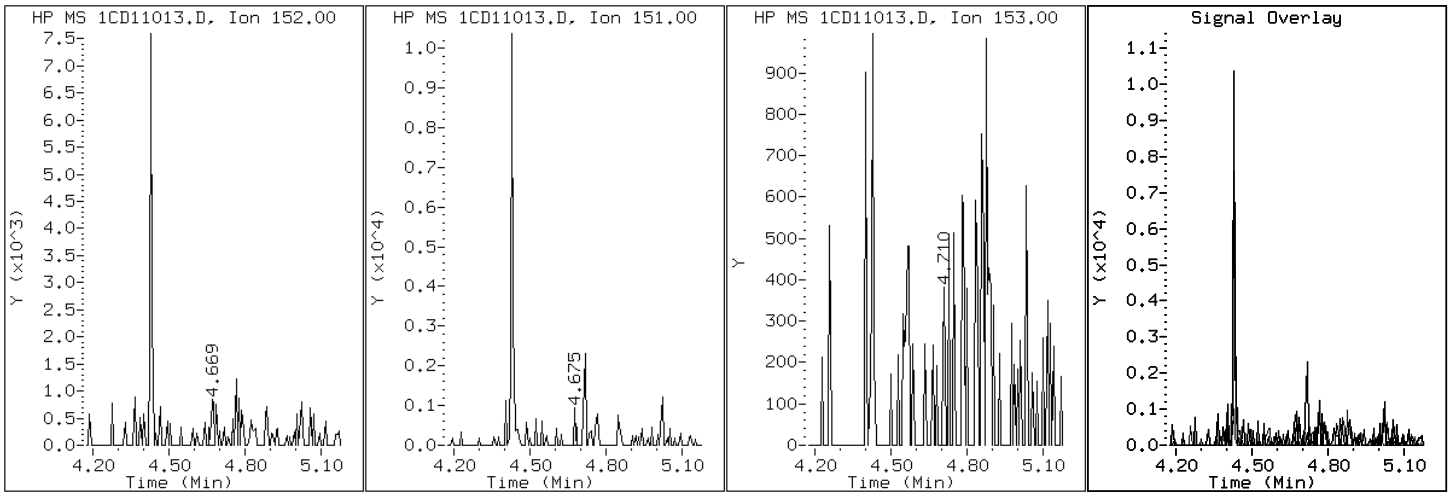
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

5 Acenaphthylene



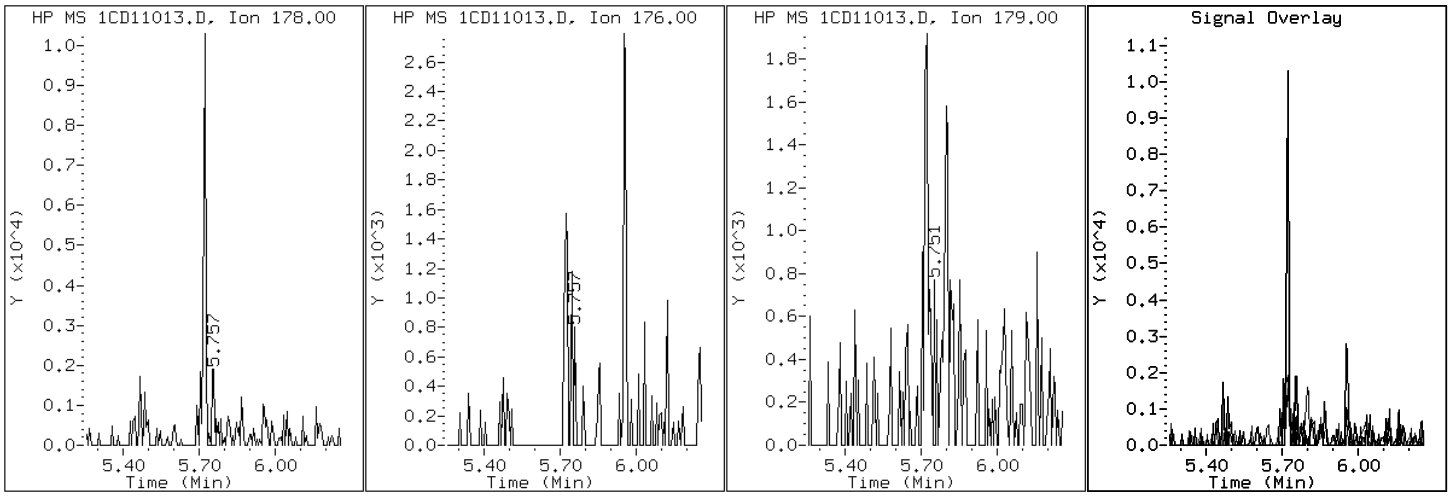
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

12 Anthracene



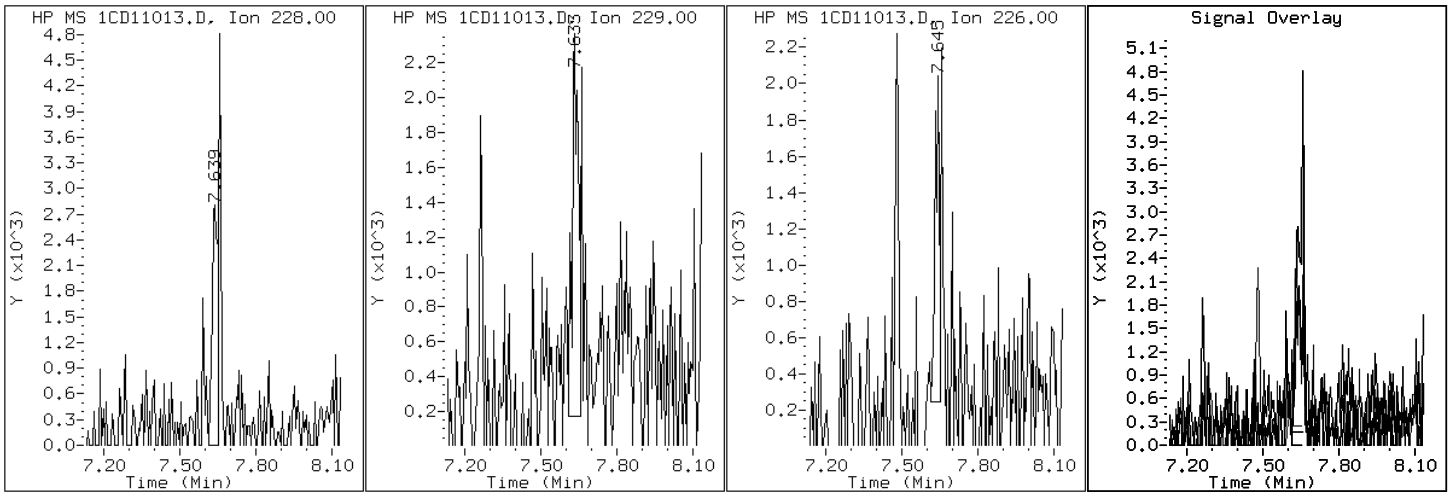
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

17 Benzo(a)anthracene



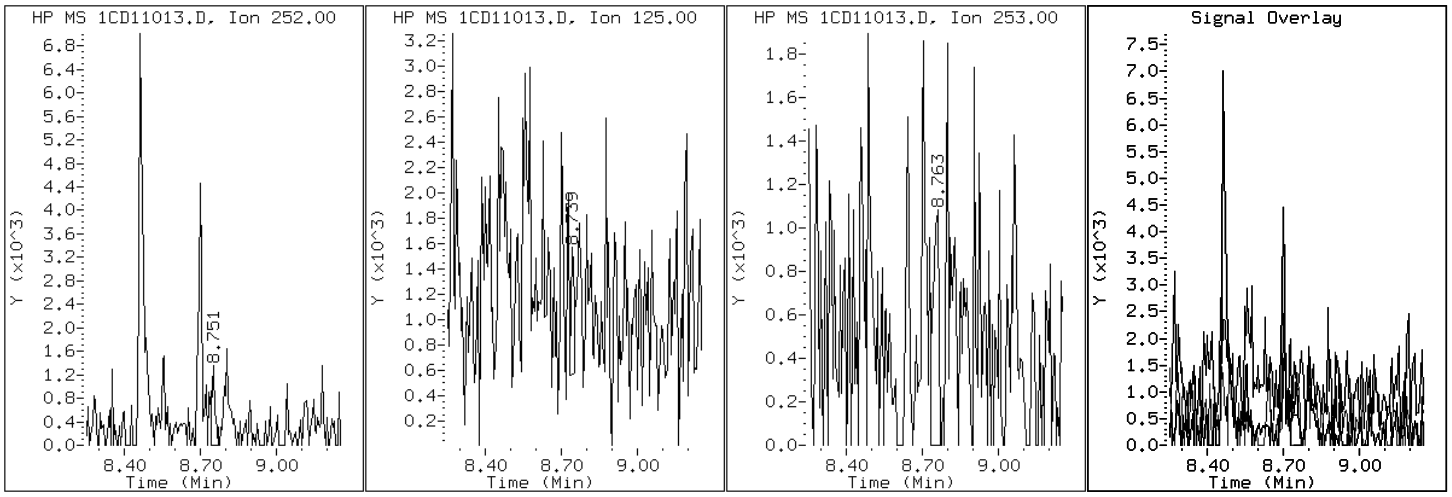
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

22 Benzo(a)pyrene



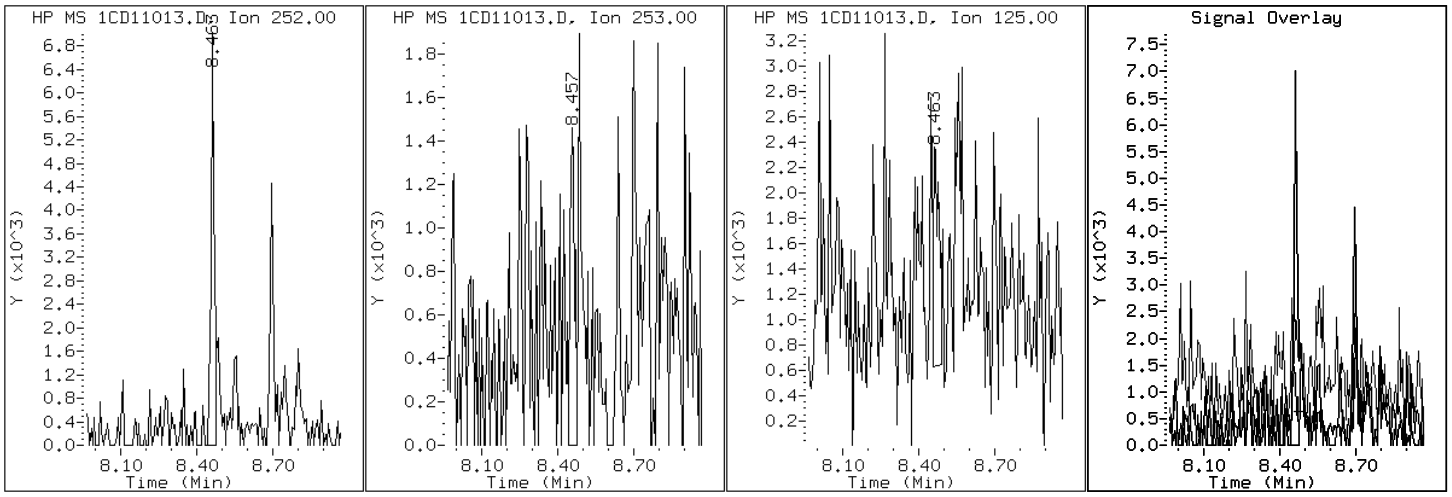
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

20 Benzo(b)fluoranthene



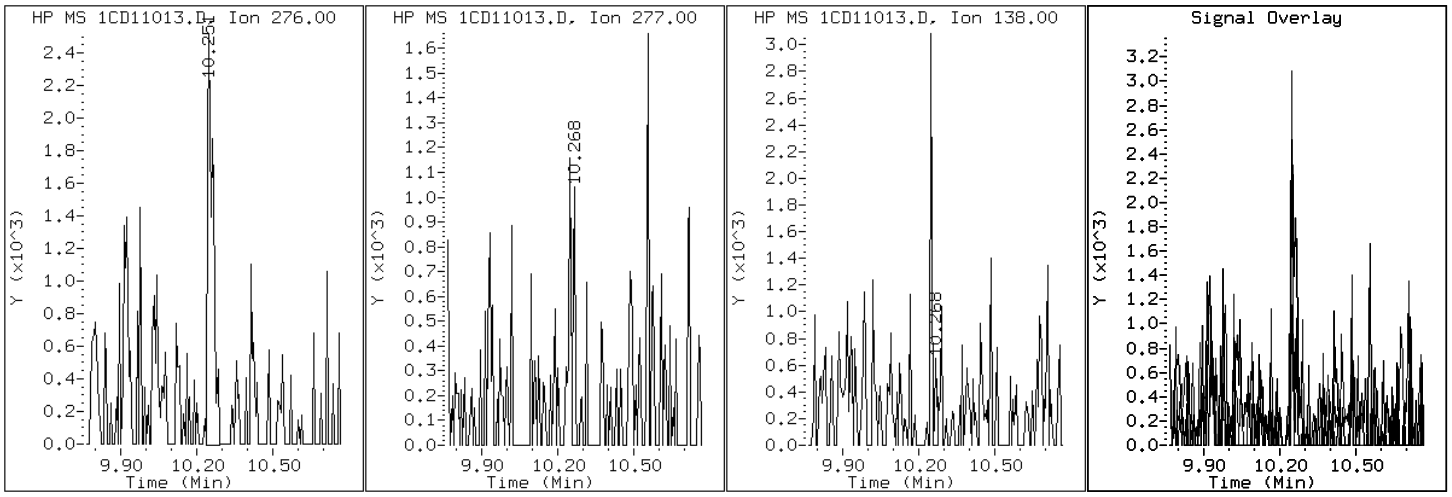
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

26 Benzo(g,h,i)perylene



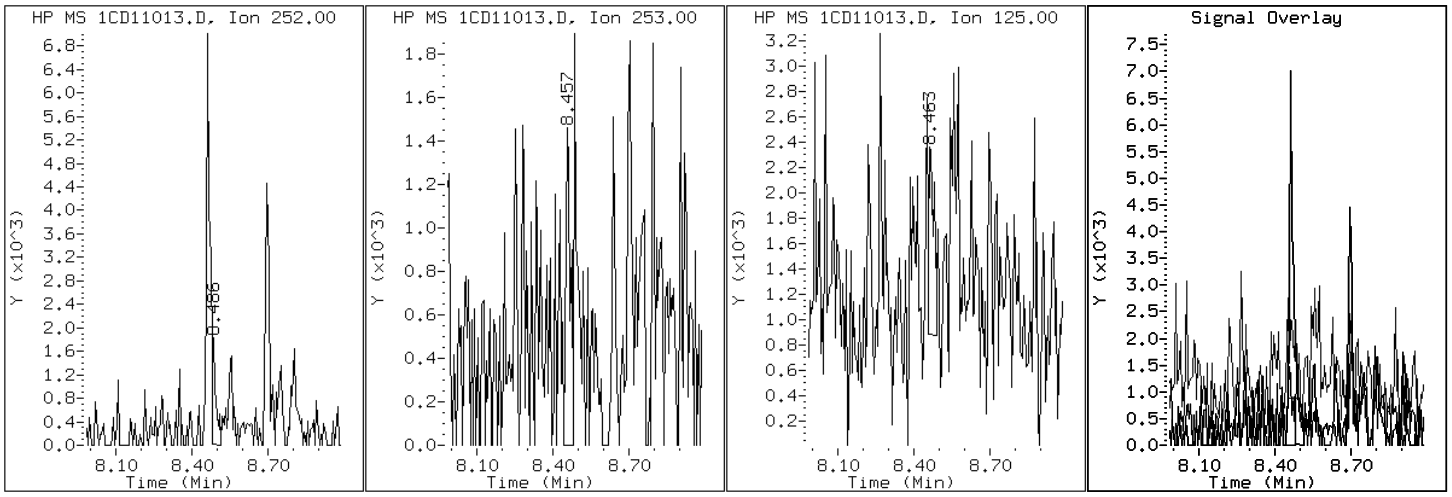
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

21 Benzo(k)fluoranthene



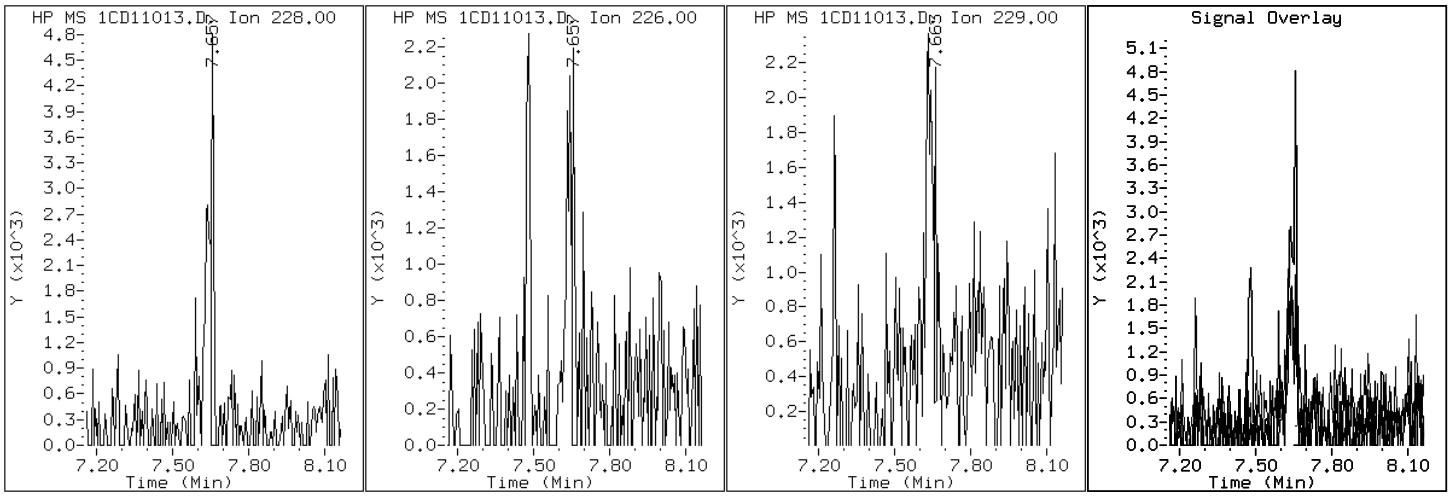
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

19 Chrysene



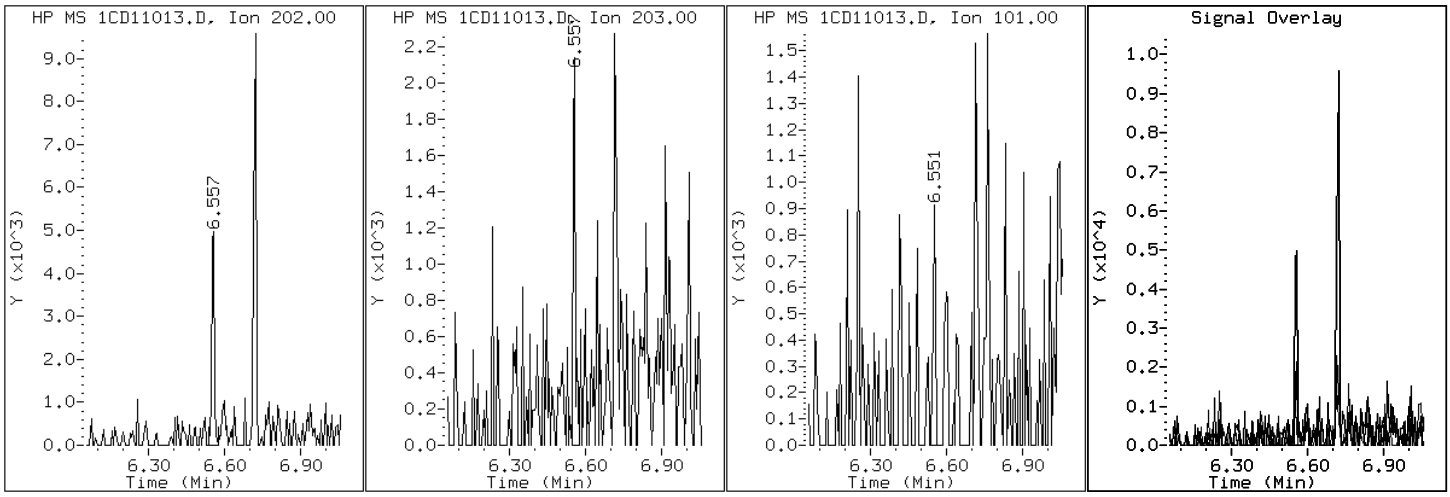
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

15 Fluoranthene



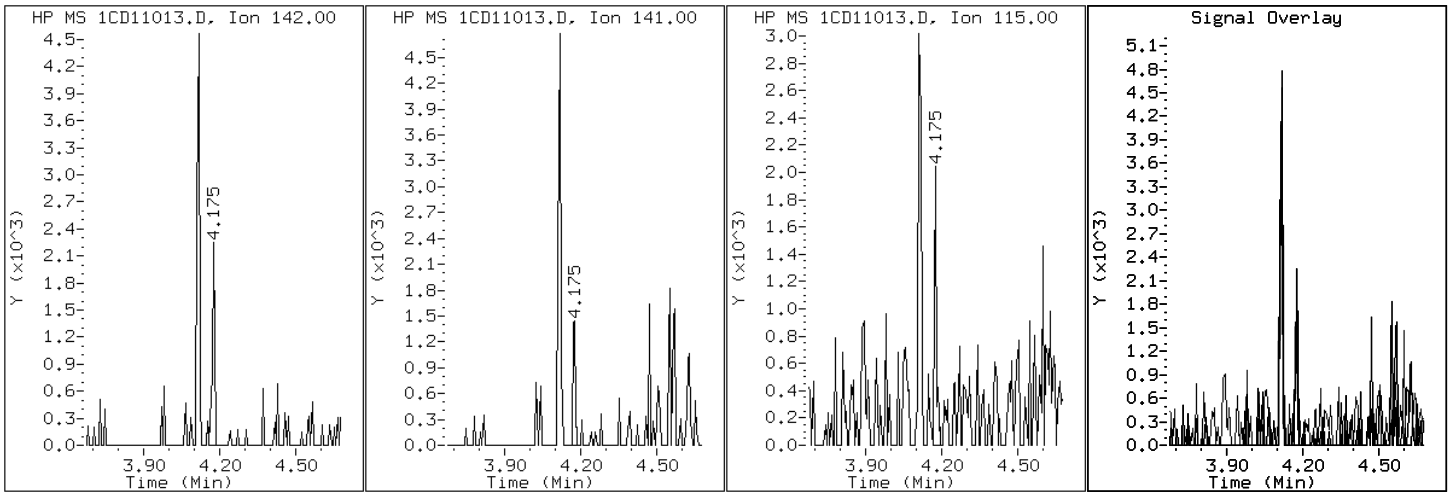
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

4 1-Methylnaphthalene



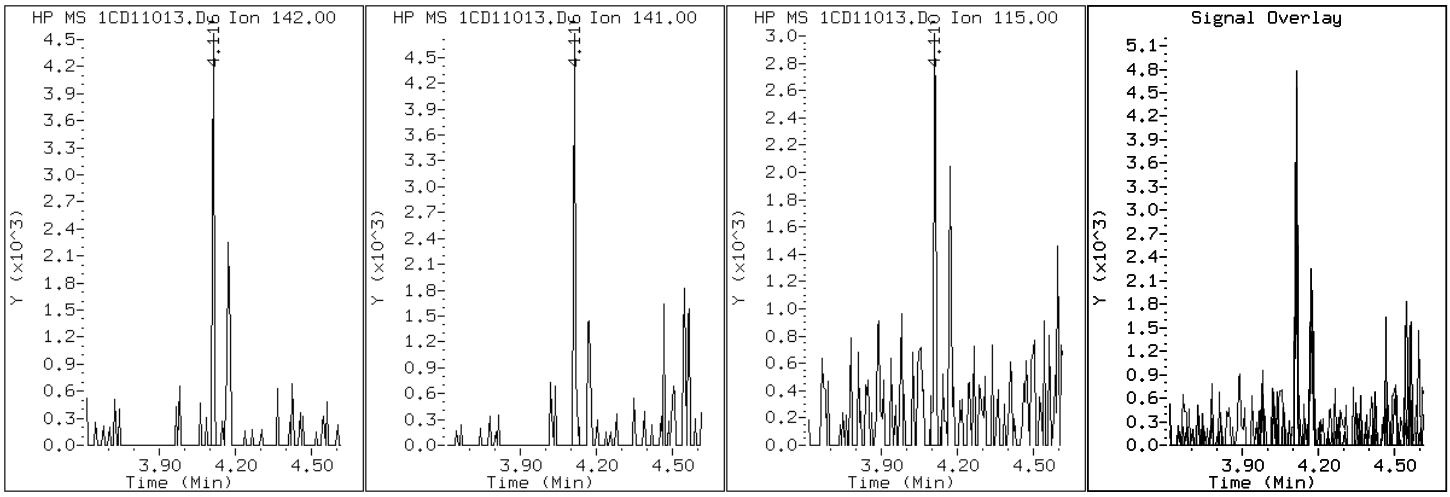
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

3 2-Methylnaphthalene



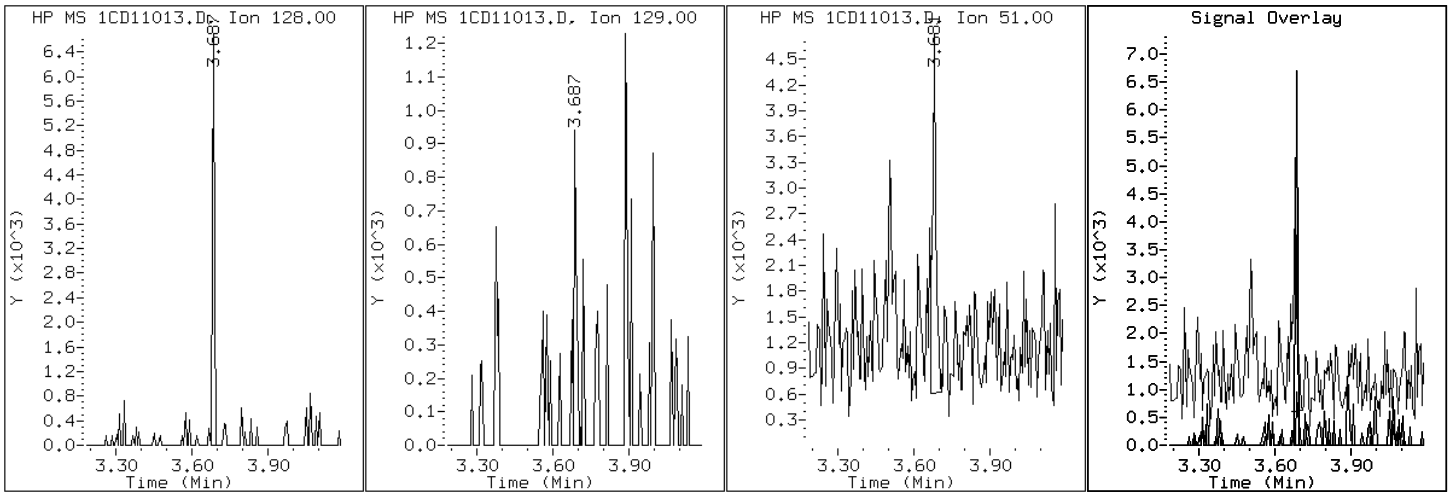
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

2 Naphthalene



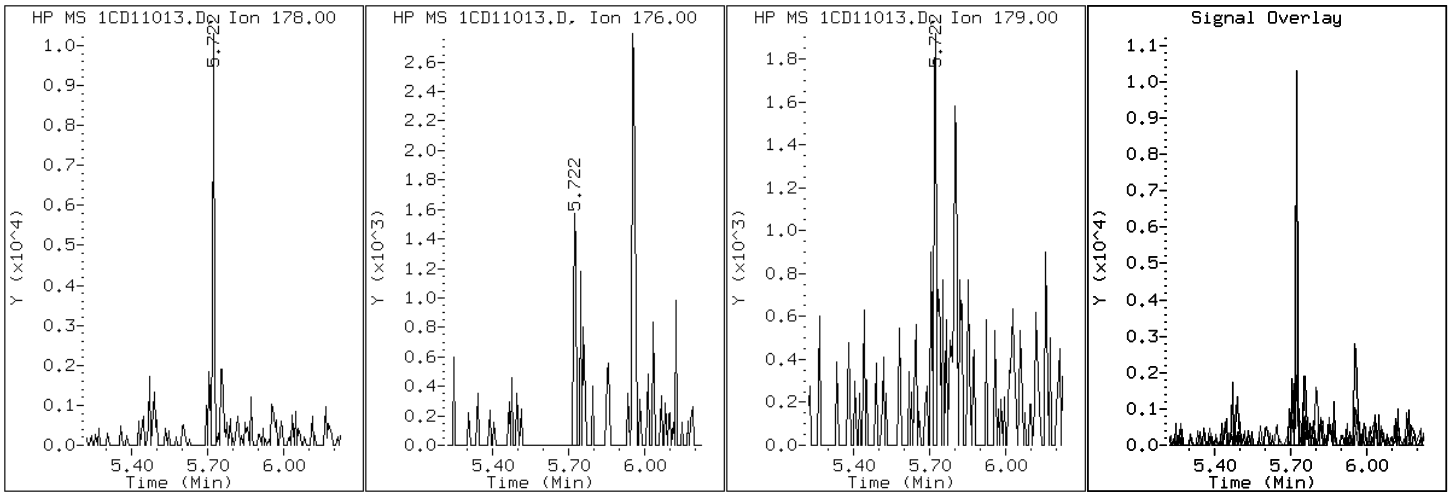
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

11 Phenanthrene



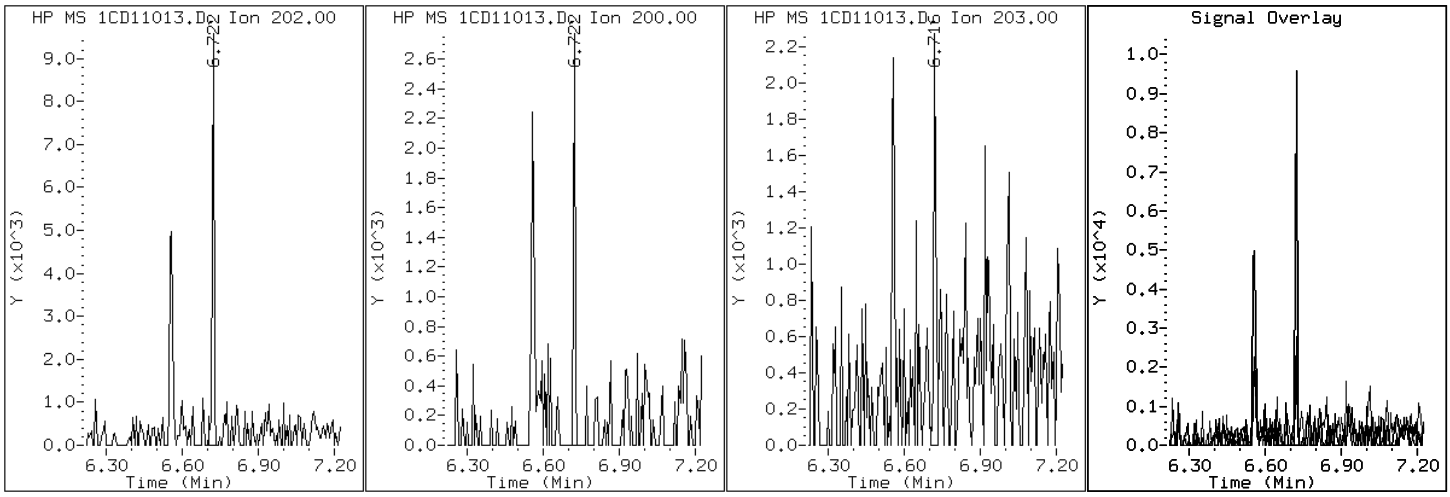
Data File: 1CD11013.D

Date: 11-APR-2013 15:28

Client ID: CV0151A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD11013.D
Inj. Date and Time: 11-APR-2013 15:28
Instrument ID: BSMC5973.i
Client ID: CV0151A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/12/2013

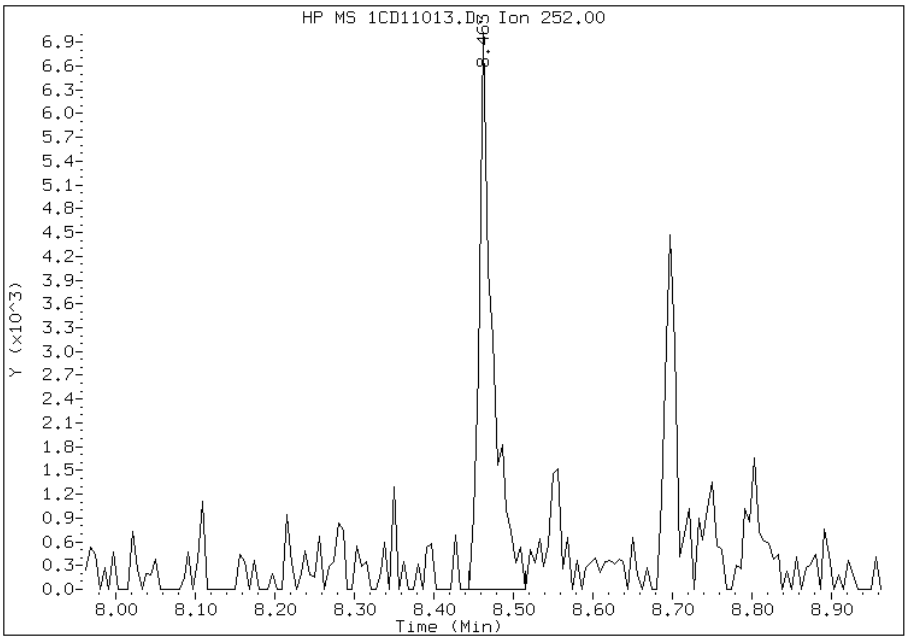
Processing Integration Results

RT: 8.46

Response: 8437

Amount: 1

Conc: 85



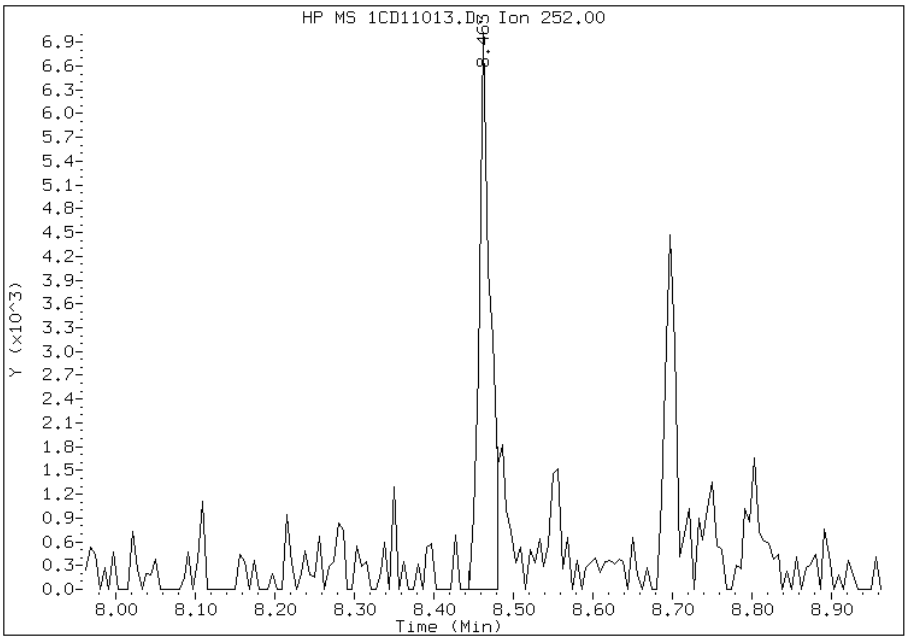
Manual Integration Results

RT: 8.46

Response: 6877

Amount: 1

Conc: 69



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 09:55
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11013.D
Inj. Date and Time: 11-APR-2013 15:28
Instrument ID: BSMC5973.i
Client ID: CV0151A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/12/2013

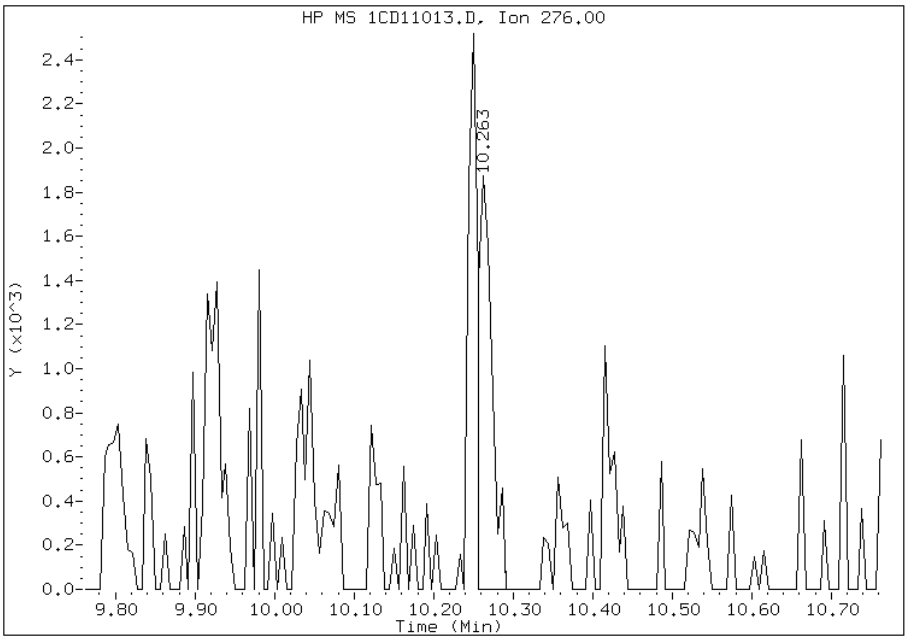
Processing Integration Results

RT: 10.26

Response: 2266

Amount: 0

Conc: 24



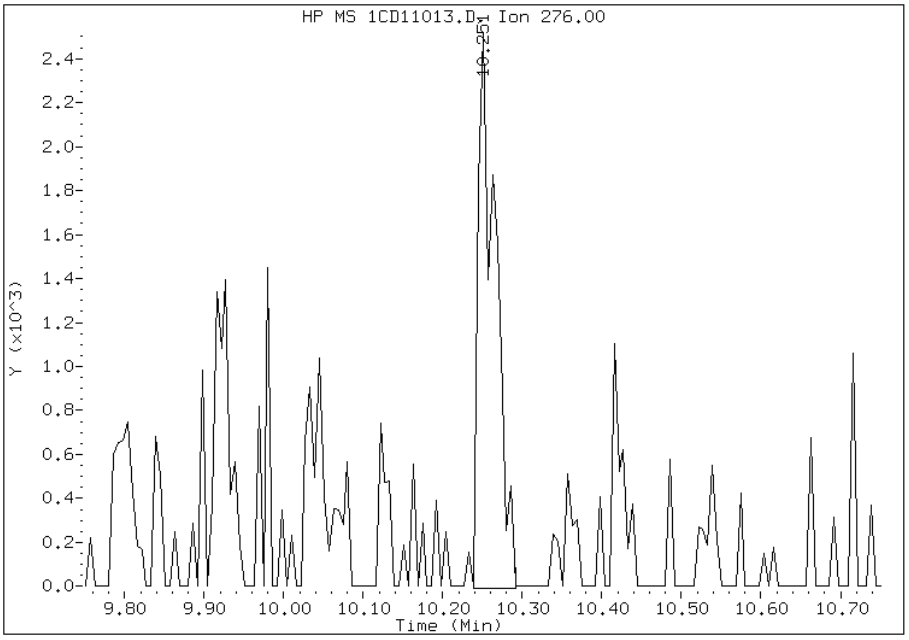
Manual Integration Results

RT: 10.25

Response: 3834

Amount: 0

Conc: 40



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 09:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11013.D
Inj. Date and Time: 11-APR-2013 15:28
Instrument ID: BSMC5973.i
Client ID: CV0151A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/12/2013

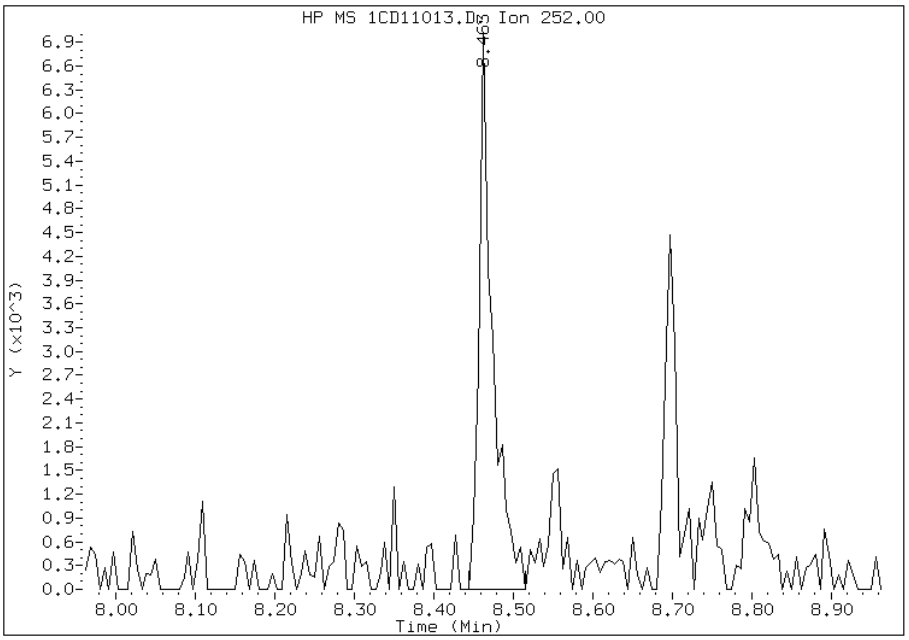
Processing Integration Results

RT: 8.46

Response: 8437

Amount: 1

Conc: 75



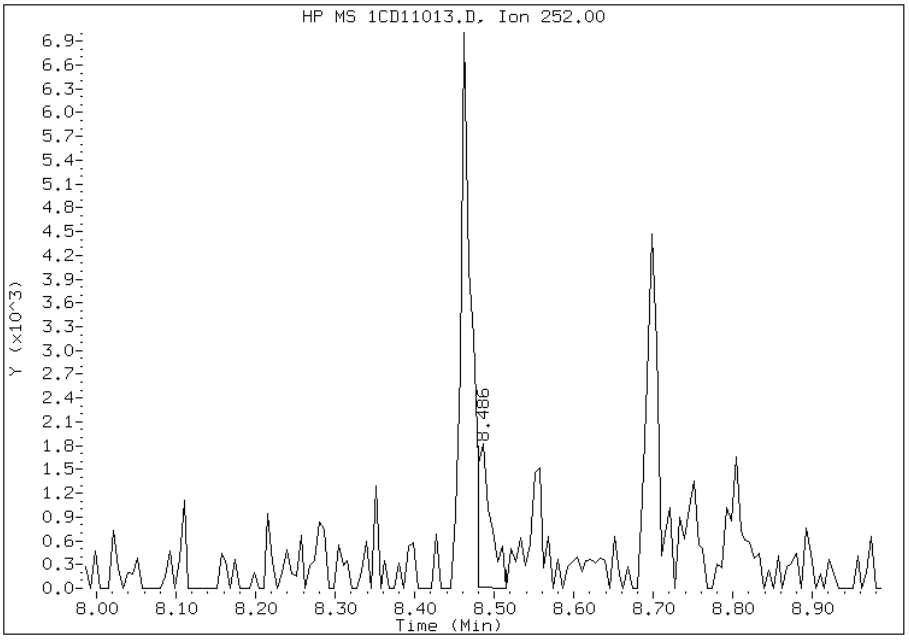
Manual Integration Results

RT: 8.49

Response: 2095

Amount: 0

Conc: 19



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 09:56
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88980-2

SDG No.: 68088980-2

Client Sample ID: CV0151A-CSD | Lab Sample ID: 680-88980-22

Matrix: Solid | Lab File ID: 1CD11016.D

Analysis Method: 8270C LL | Date Collected: 04/02/2013 13:25

Extract. Method: 3546 | Date Extracted: 04/09/2013 13:55

Sample wt/vol: 14.97(g) | Date Analyzed: 04/11/2013 16:23

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

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

% Moisture: 31.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136370 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	29
208-96-8	Acenaphthylene	58	U	58	7.3
120-12-7	Anthracene	11	J	12	6.1
56-55-3	Benzo[a]anthracene	37		12	5.7
50-32-8	Benzo[a]pyrene	19		15	7.6
205-99-2	Benzo[b]fluoranthene	53		18	8.9
191-24-2	Benzo[g,h,i]perylene	20	J	29	6.4
207-08-9	Benzo[k]fluoranthene	18		12	5.2
218-01-9	Chrysene	28		13	6.6
53-70-3	Dibenz(a,h)anthracene	29	U	29	6.0
206-44-0	Fluoranthene	34		29	5.8
86-73-7	Fluorene	29	U	29	6.0
193-39-5	Indeno[1,2,3-cd]pyrene	29	U	29	10
90-12-0	1-Methylnaphthalene	14	J	58	6.4
91-57-6	2-Methylnaphthalene	69		58	10
91-20-3	Naphthalene	38	J	58	6.4
85-01-8	Phenanthrene	42		12	5.7
129-00-0	Pyrene	29		29	5.4

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\BSMC5973.i\1C041113.b\1CD11016.D
Lab Smp Id: 680-88980-A-22-A Client Smp ID: CV0151A-CSD
Inj Date : 11-APR-2013 16:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-22-a
Misc Info : 680-88980-A-22-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	31.263	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.674	3.675	(1.000)	295904	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	202366	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	384515	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	31403	5.62149	546.3130
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	424877	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000)	427348	40.0000	
	2 Naphthalene	128	3.686	3.687	(1.003)	3124	0.39056	37.9558(Q)
	3 2-Methylnaphthalene	142	4.110	4.115	(1.118)	2318	0.70603	68.6136
	4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	714	0.13975	13.5808(Q)
	11 Phenanthrene	178	5.721	5.722	(1.003)	4780	0.43089	41.8754
	12 Anthracene	178	5.751	5.757	(1.008)	1265	0.11332	11.0129(Q)
	13 Carbazole	167	5.862	5.863	(1.028)	910	0.08753	8.5063(Q)
	15 Fluoranthene	202	6.557	6.557	(1.150)	4376	0.35082	34.0934
	16 Pyrene	202	6.721	6.722	(0.880)	3554	0.29403	28.5744

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	4631	0.38544	37.4586
19 Chrysene	228	7.662	7.663	(1.003)	3482	0.29296	28.4708
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	5924	0.54884	53.3376
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	2206	0.18062	17.5529(Q)
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	2125	0.19046	18.5092
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	2143	0.20492	19.9146

QC Flag Legend

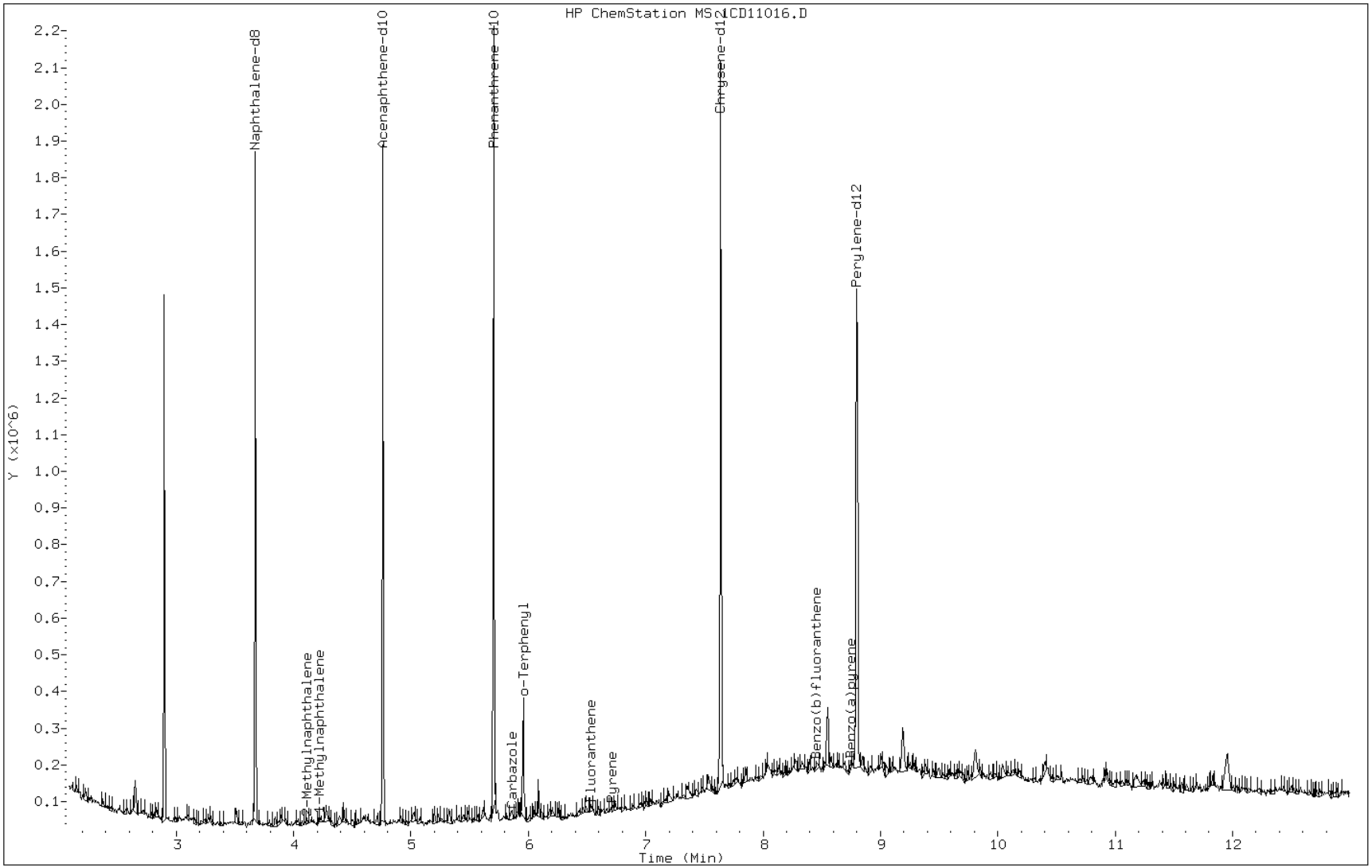
Q - Qualifier signal failed the ratio test.

Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC



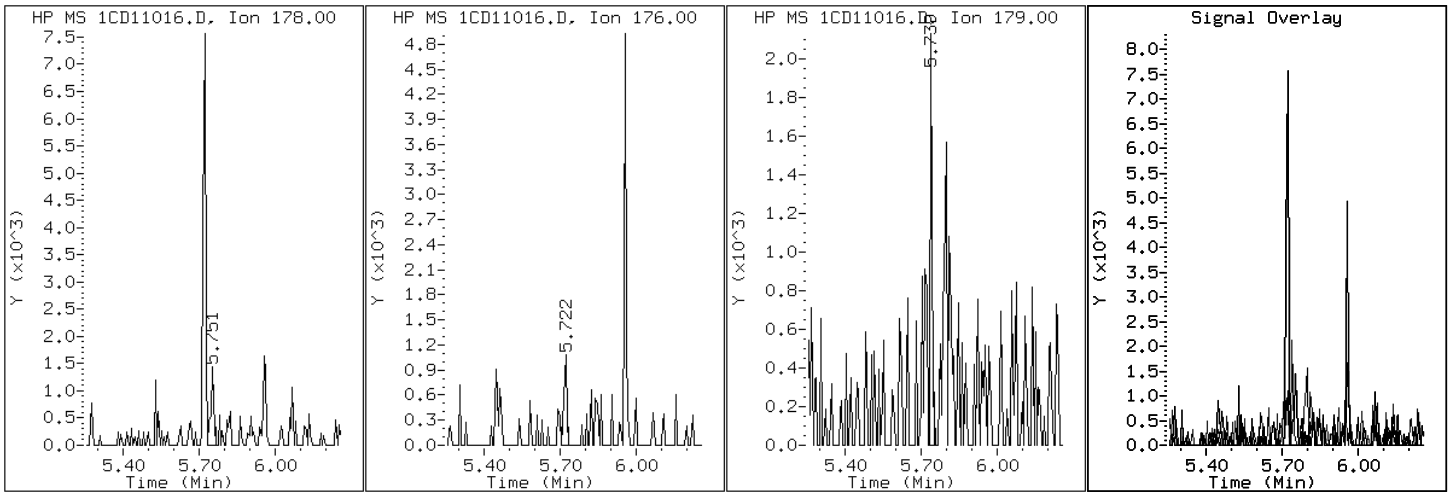
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

12 Anthracene



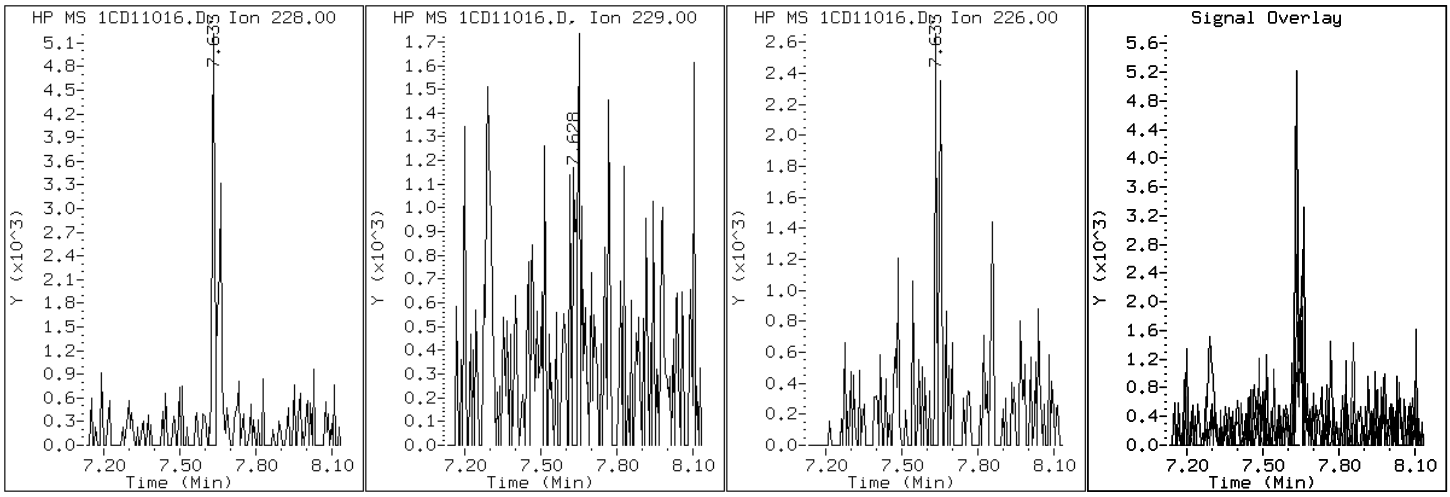
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

17 Benzo(a)anthracene



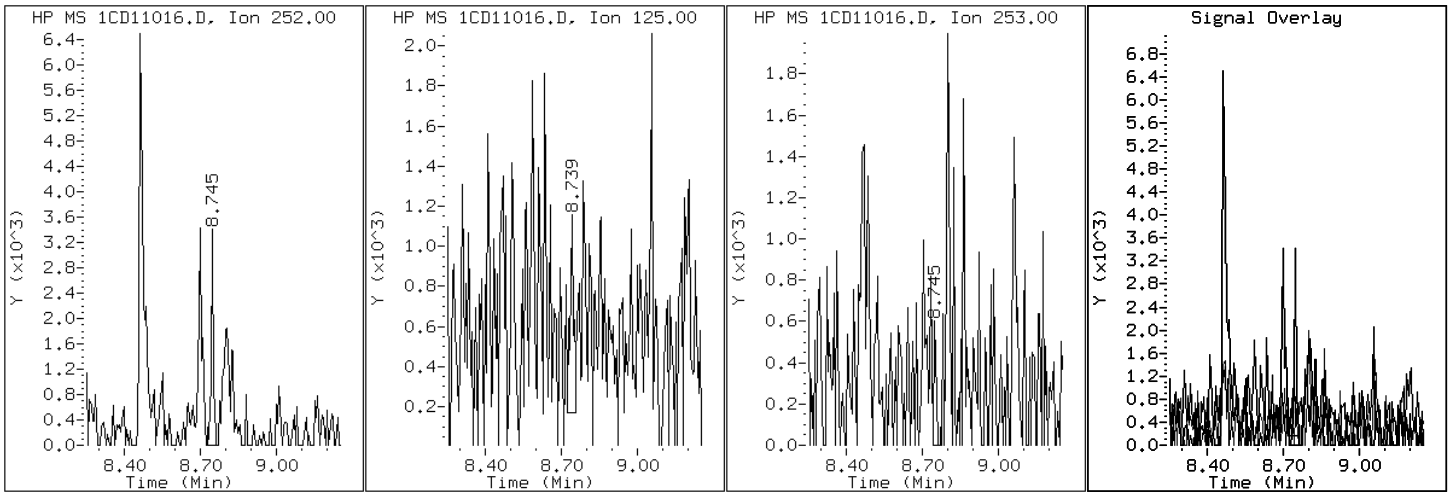
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

22 Benzo(a)pyrene



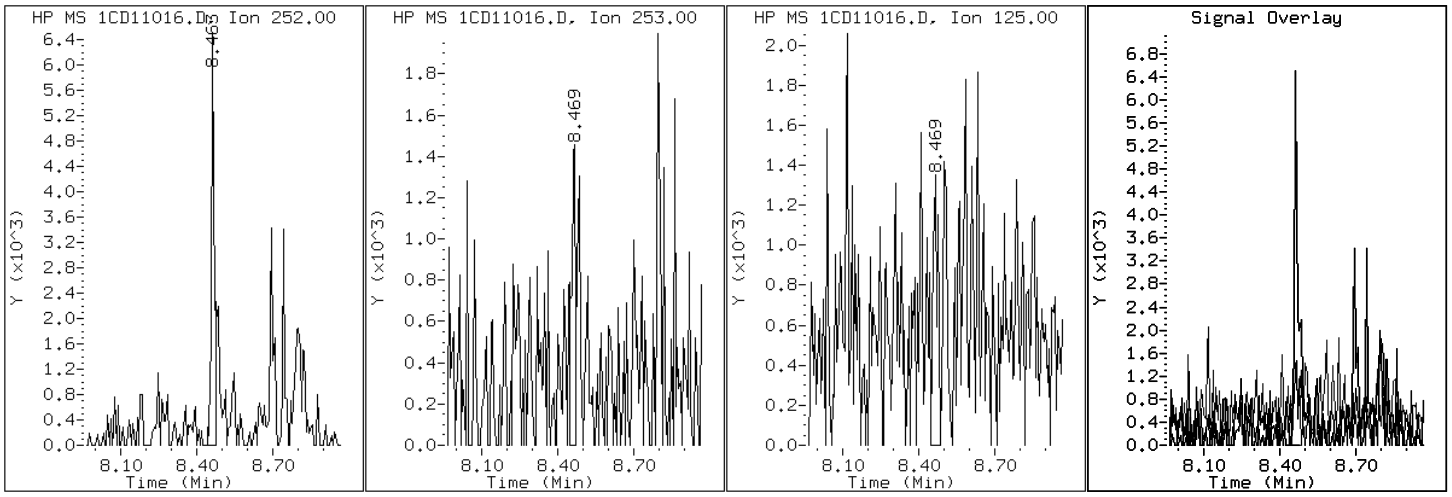
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

20 Benzo(b)fluoranthene



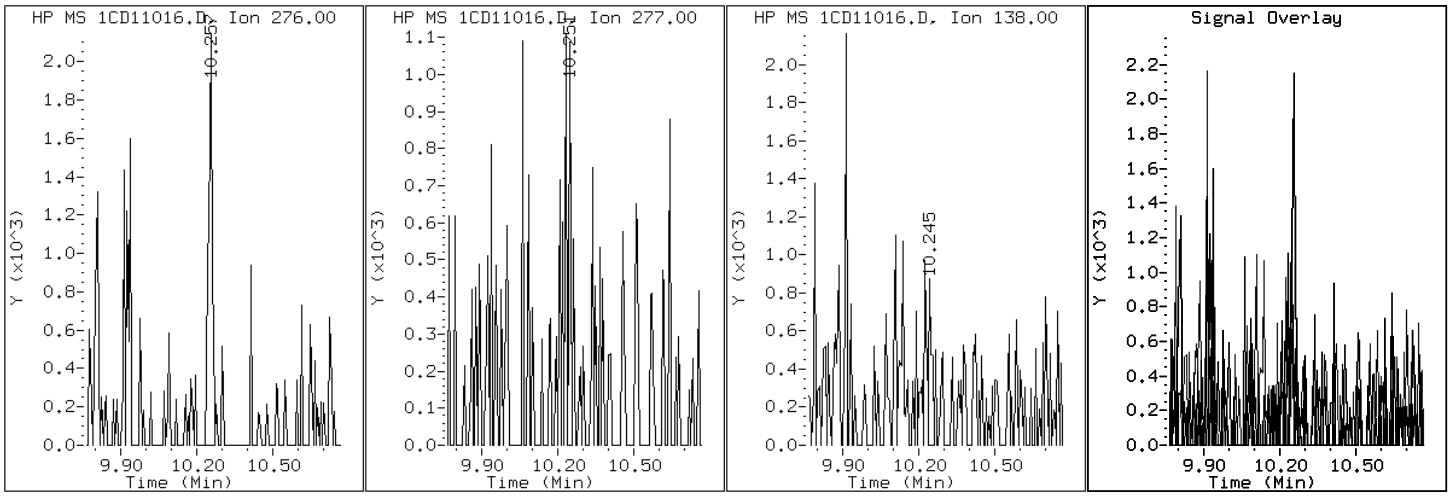
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

26 Benzo(g,h,i)perylene



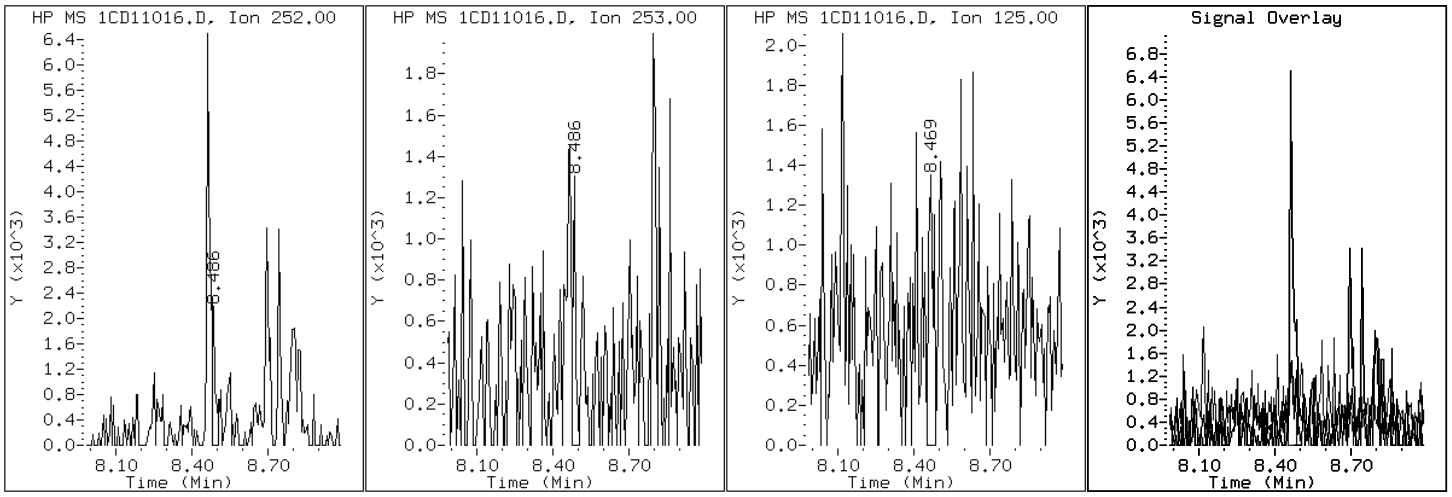
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

21 Benzo(k)fluoranthene



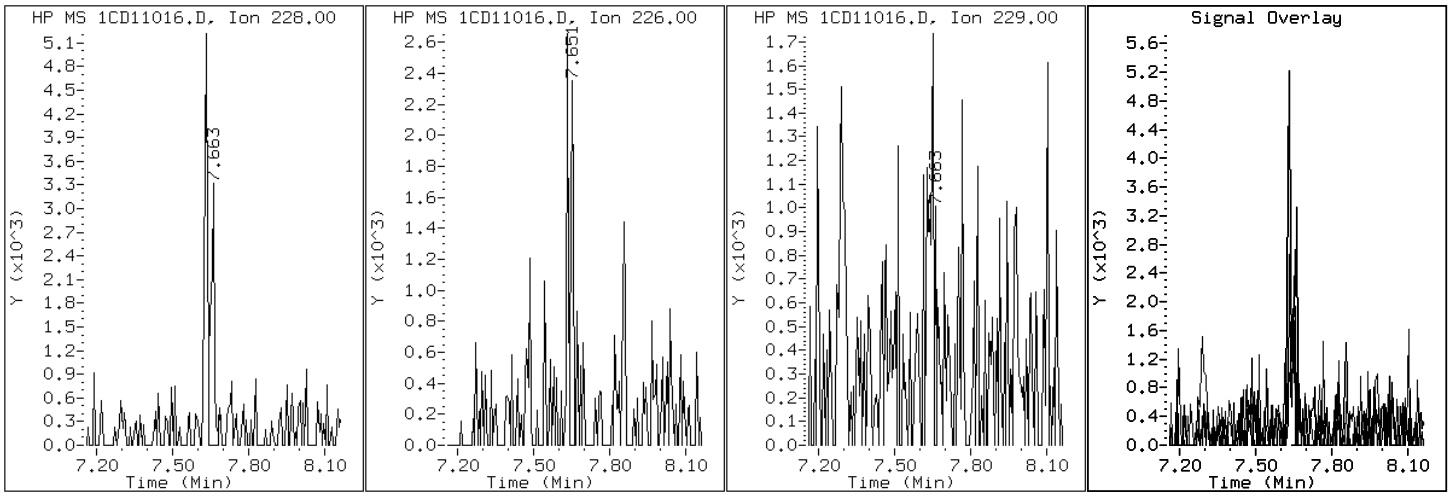
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

19 Chrysene



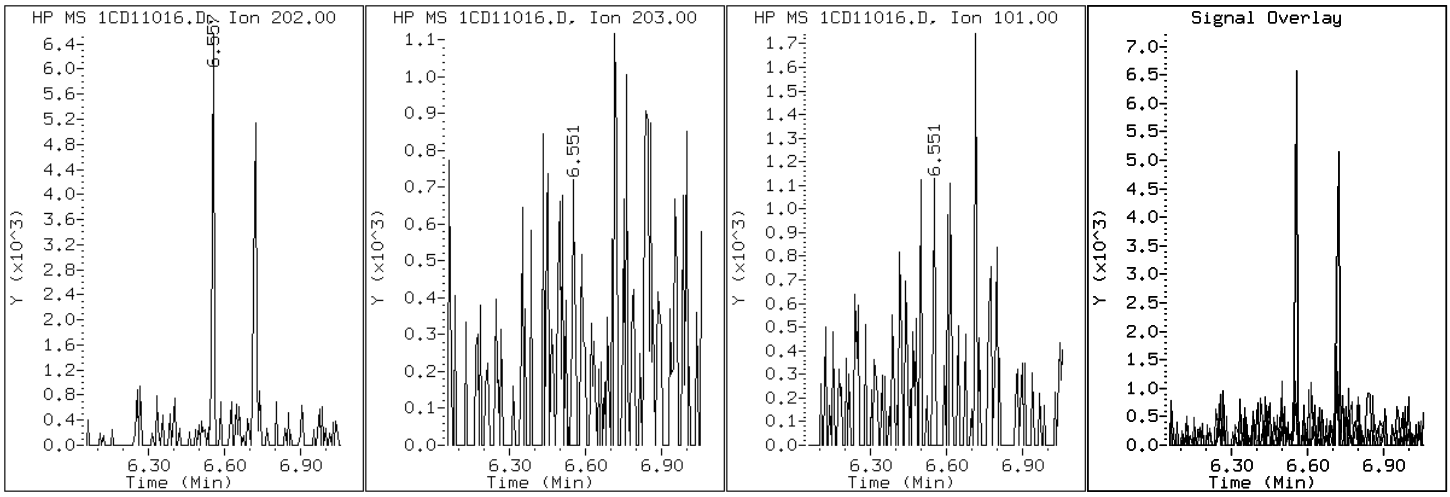
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

15 Fluoranthene



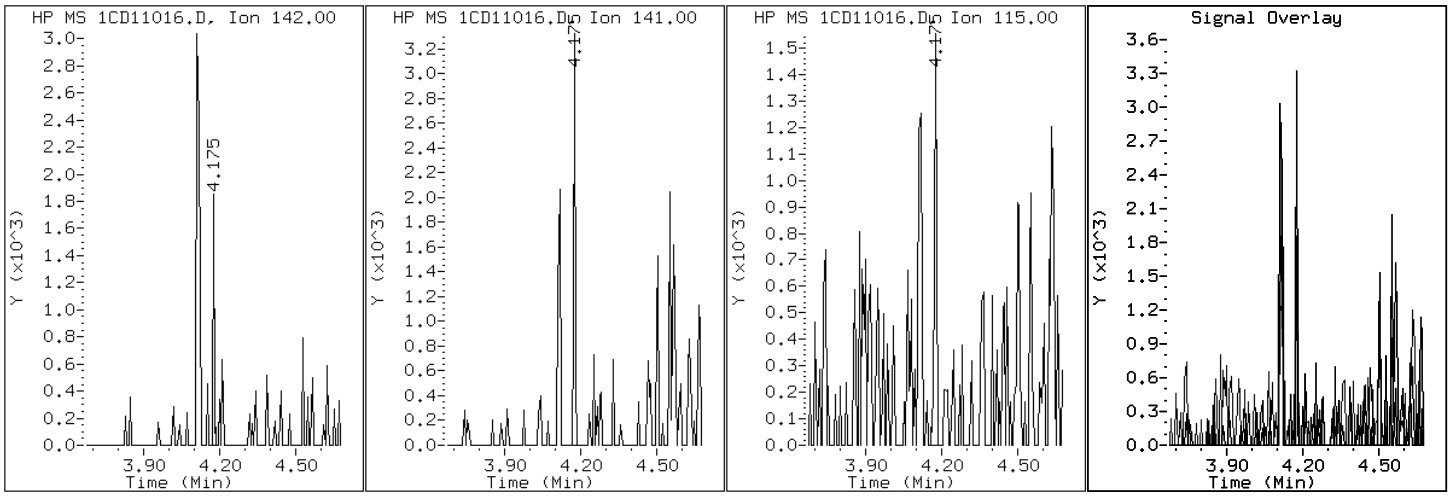
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

4 1-Methylnaphthalene



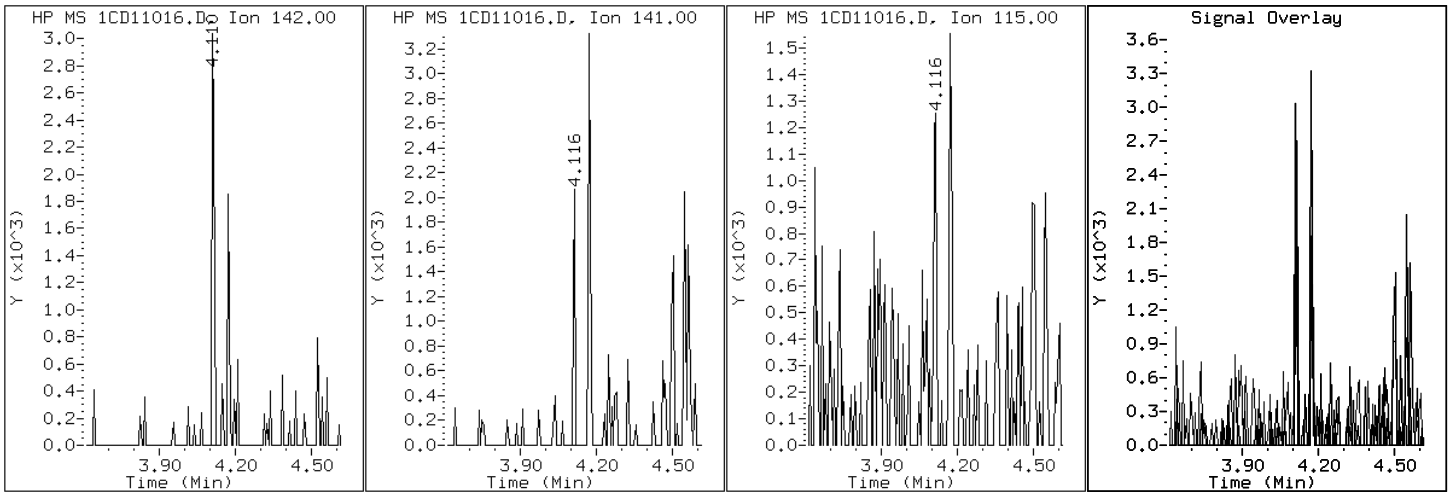
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

3 2-Methylnaphthalene



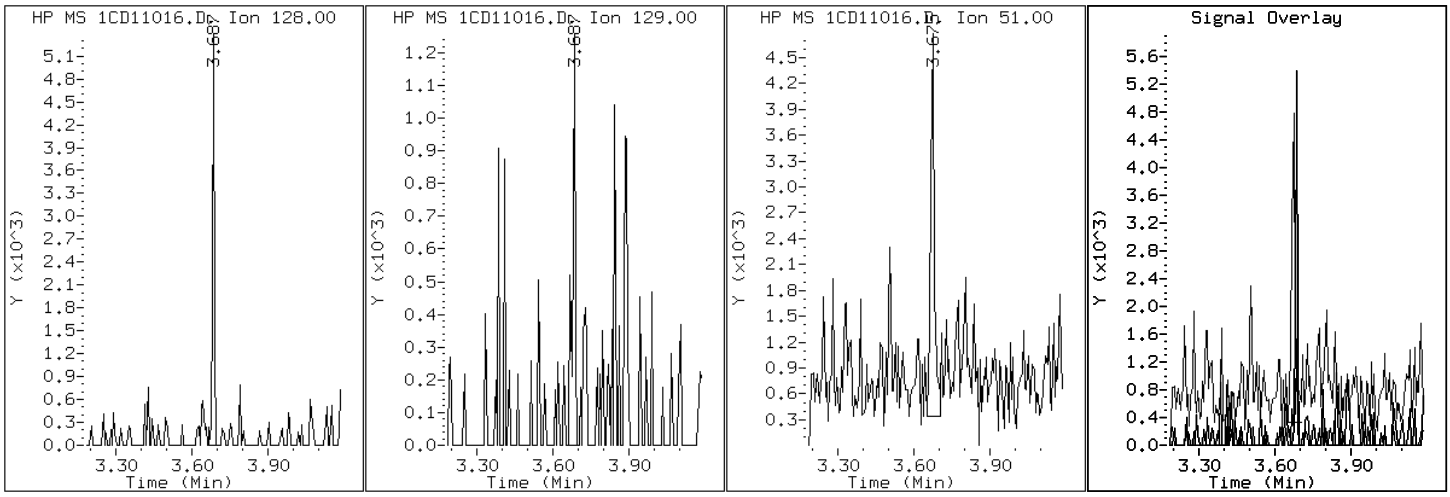
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

2 Naphthalene



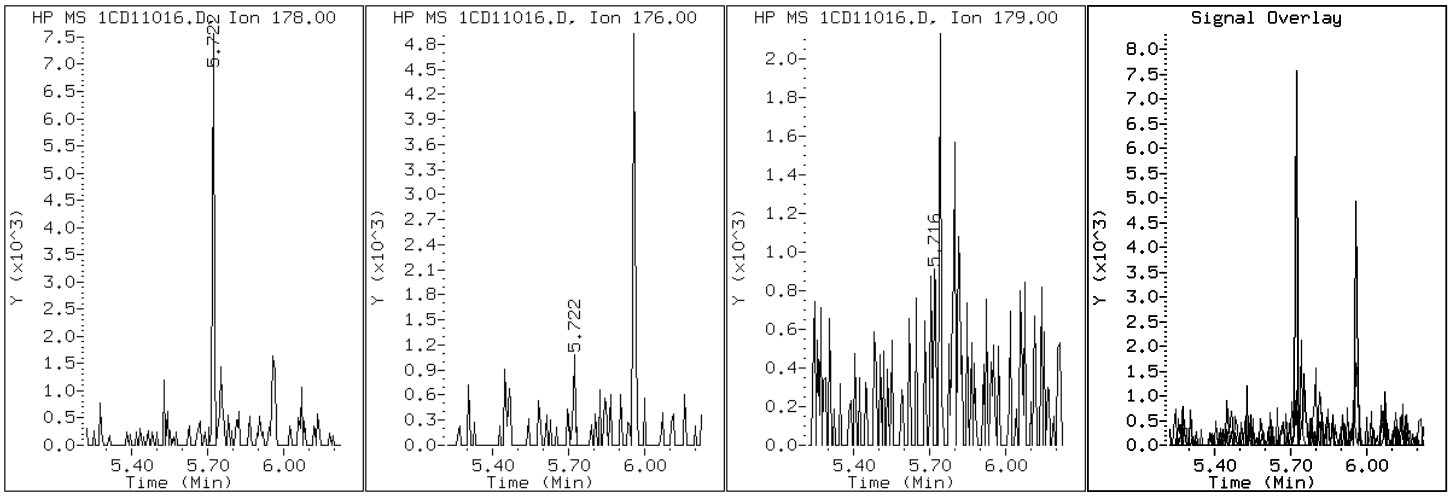
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

11 Phenanthrene



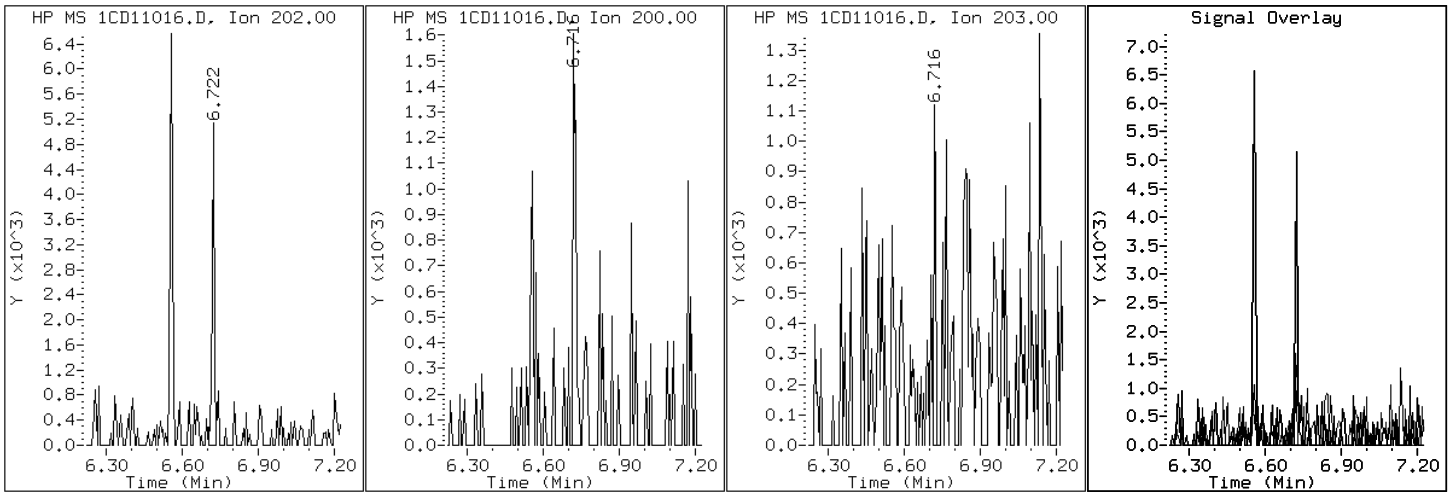
Data File: 1CD11016.D

Date: 11-APR-2013 16:23

Client ID: CV0151A-CSD Instrument: BSMC5973.i

Sample Info: 680-88980-a-22-a Operator: SCC

16 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88980-2

SDG No.: 68088980-2

Client Sample ID: CV0151B-CS | Lab Sample ID: 680-88980-23

Matrix: Solid | Lab File ID: 1CD11017.D

Analysis Method: 8270C LL | Date Collected: 04/02/2013 13:33

Extract. Method: 3546 | Date Extracted: 04/09/2013 13:55

Sample wt/vol: 15.37(g) | Date Analyzed: 04/11/2013 16:41

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

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

% Moisture: 26.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136370 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	53	U	53	6.6
120-12-7	Anthracene	11	U	11	5.6
56-55-3	Benzo[a]anthracene	24		11	5.2
50-32-8	Benzo[a]pyrene	19		14	6.9
205-99-2	Benzo[b]fluoranthene	36		16	8.1
191-24-2	Benzo[g,h,i]perylene	22	J	27	5.9
207-08-9	Benzo[k]fluoranthene	17		11	4.8
218-01-9	Chrysene	48		12	6.0
53-70-3	Dibenz(a,h)anthracene	27	U	27	5.5
206-44-0	Fluoranthene	46		27	5.3
86-73-7	Fluorene	27	U	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	27	U	27	9.4
90-12-0	1-Methylnaphthalene	25	J	53	5.9
91-57-6	2-Methylnaphthalene	65		53	9.4
91-20-3	Naphthalene	46	J	53	5.9
85-01-8	Phenanthrene	49		11	5.2
129-00-0	Pyrene	31		27	4.9

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\BSMC5973.i\1C041113.b\1CD11017.D
Lab Smp Id: 680-88980-A-23-A Client Smp ID: CV0151B-CS
Inj Date : 11-APR-2013 16:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-23-a
Misc Info : 680-88980-A-23-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	26.610	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.674	3.675	(1.000)	296465	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	209951	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	396210	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	32071	5.57773	494.4788
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	450211	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000)	439754	40.0000	
	2 Naphthalene	128	3.686	3.687	(1.003)	4155	0.51847	45.9638(Q)
	3 2-Methylnaphthalene	142	4.110	4.115	(1.118)	2455	0.73077	64.7842(Q)
	4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	1449	0.28306	25.0943
	11 Phenanthrene	178	5.721	5.722	(1.003)	6403	0.55773	49.4439
	13 Carbazole	167	5.868	5.863	(1.029)	1401	0.13078	11.5938(Q)
	15 Fluoranthene	202	6.551	6.557	(1.148)	6613	0.51450	45.6120
	16 Pyrene	202	6.721	6.722	(0.880)	4535	0.35407	31.3895
	17 Benzo(a)anthracene	228	7.639	7.634	(1.000)	3459	0.27170	24.0865(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
19 Chrysene	228	7.657	7.663	(1.002)	6773	0.53779	47.6760
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	4543	0.40902	36.2604
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	2454	0.19525	17.3097(Q)
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	2494	0.21722	19.2574(Q)
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	2665	0.24764	21.9542(M)

QC Flag Legend

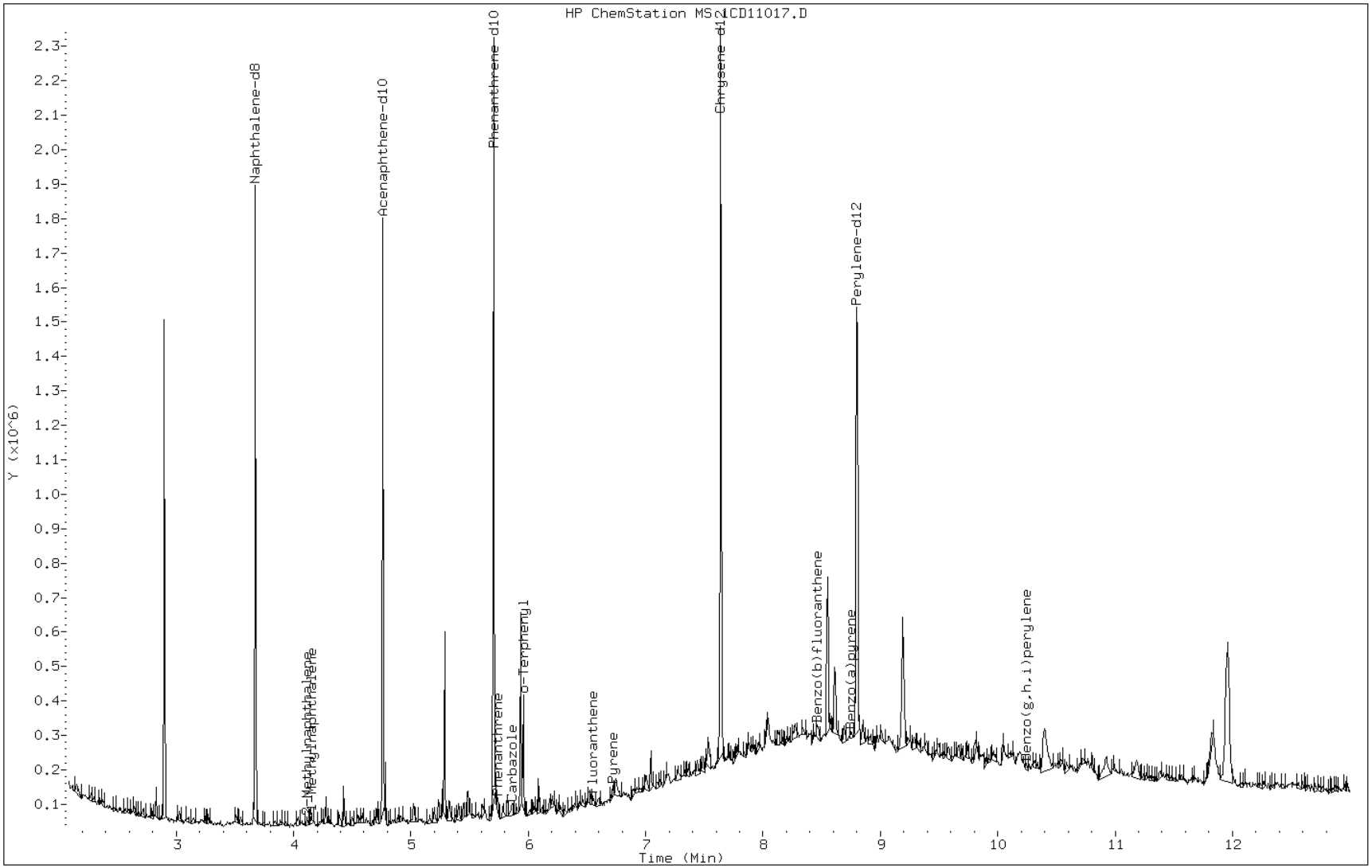
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC



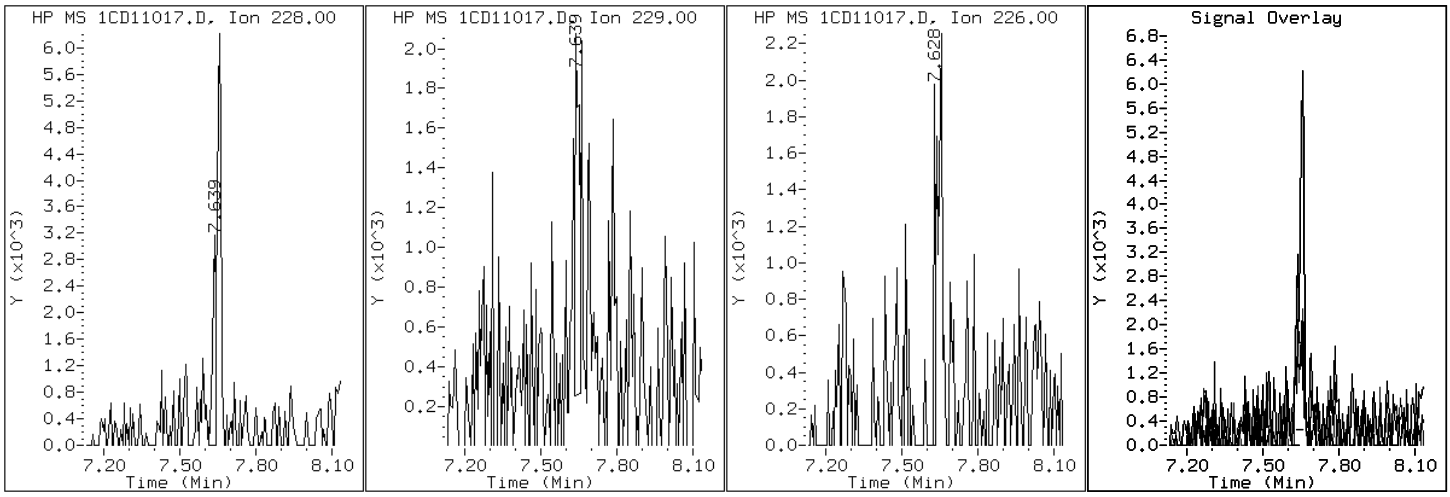
Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC

17 Benzo(a)anthracene



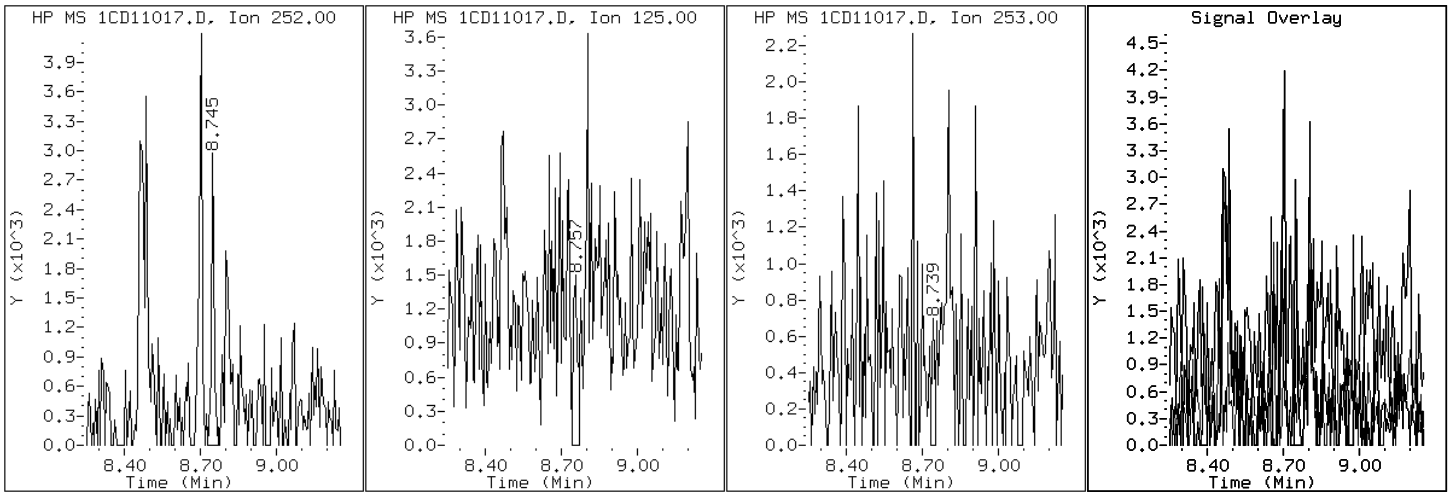
Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC

22 Benzo(a)pyrene



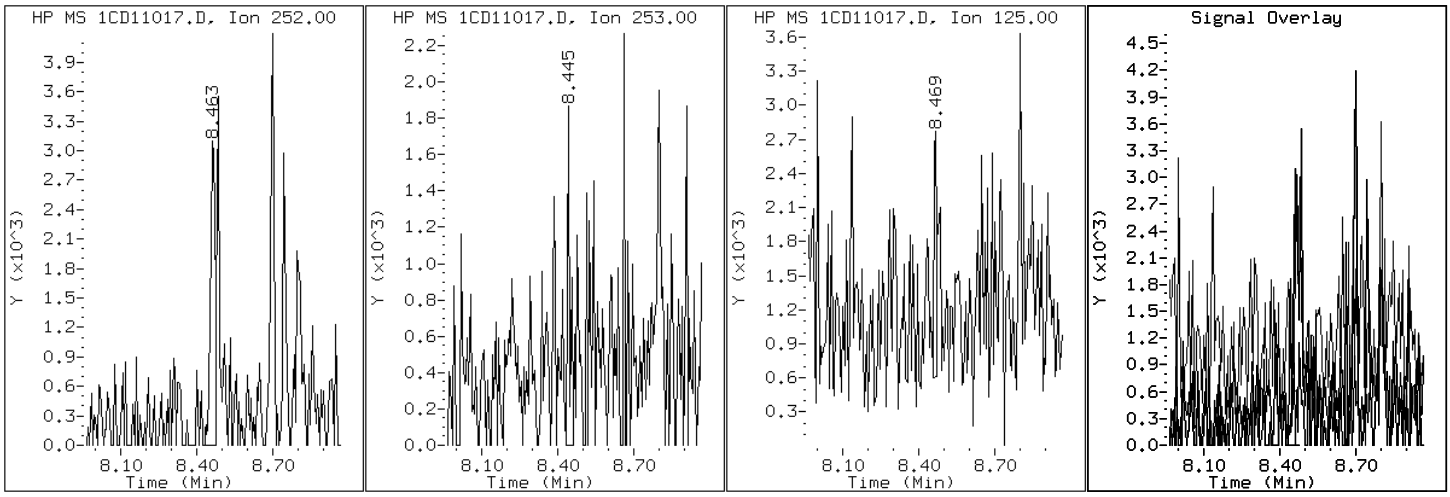
Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC

20 Benzo(b)fluoranthene



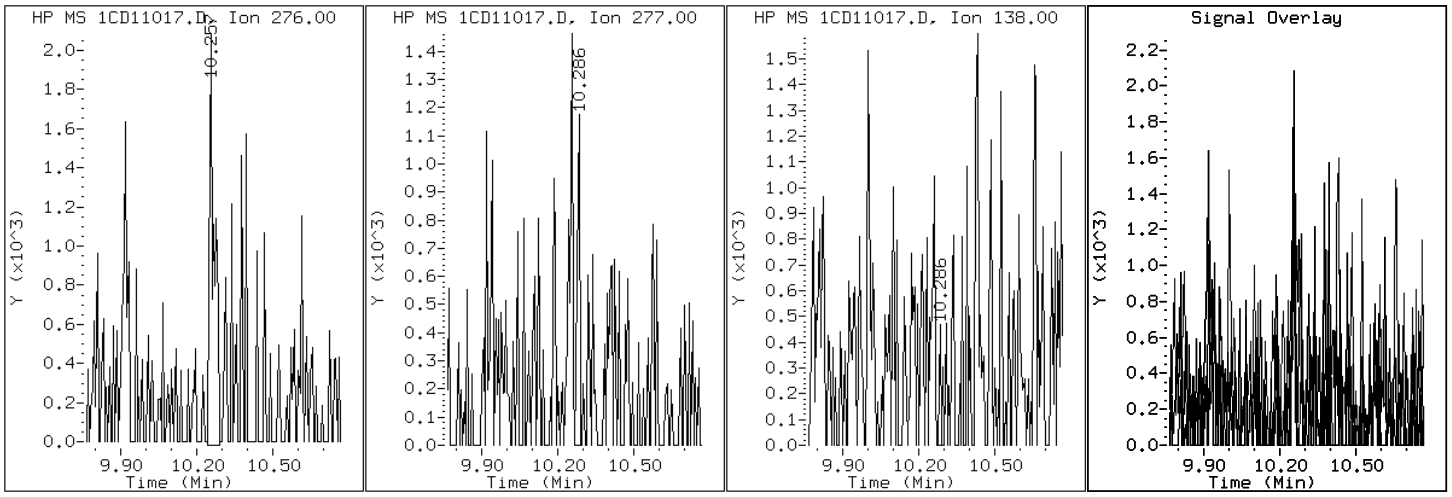
Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC

26 Benzo(g,h,i)perylene



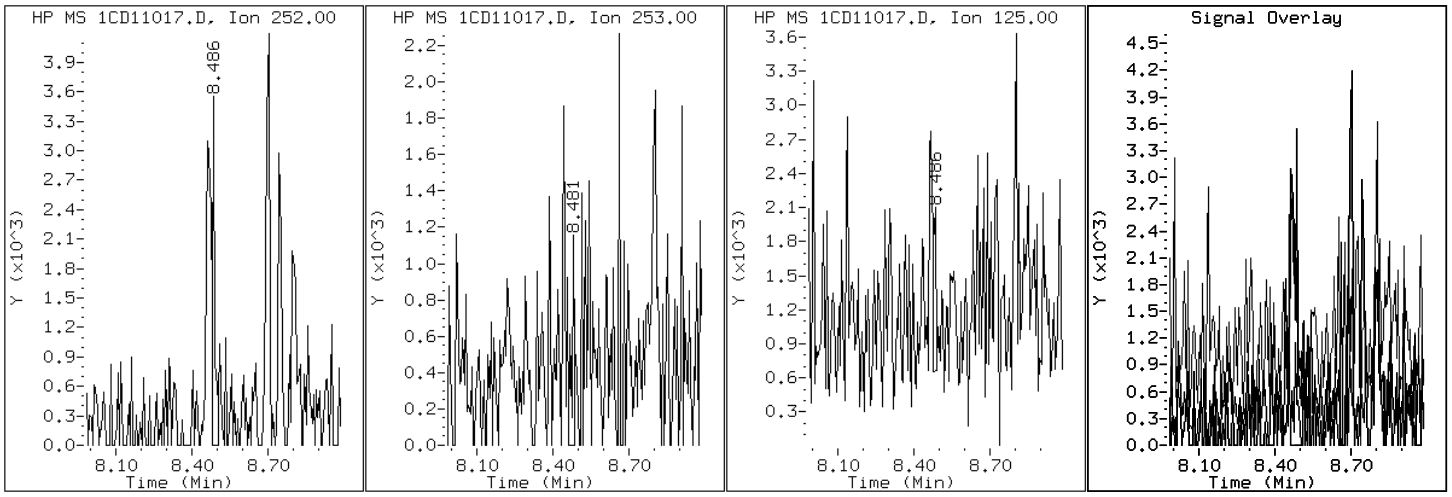
Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC

21 Benzo(k)fluoranthene



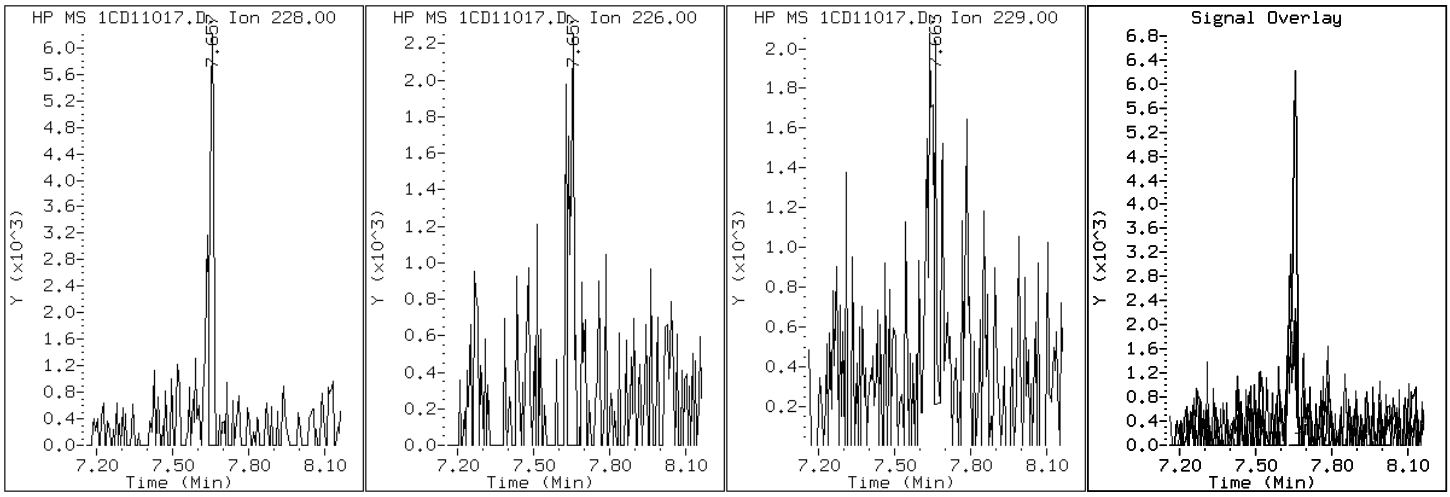
Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC

19 Chrysene



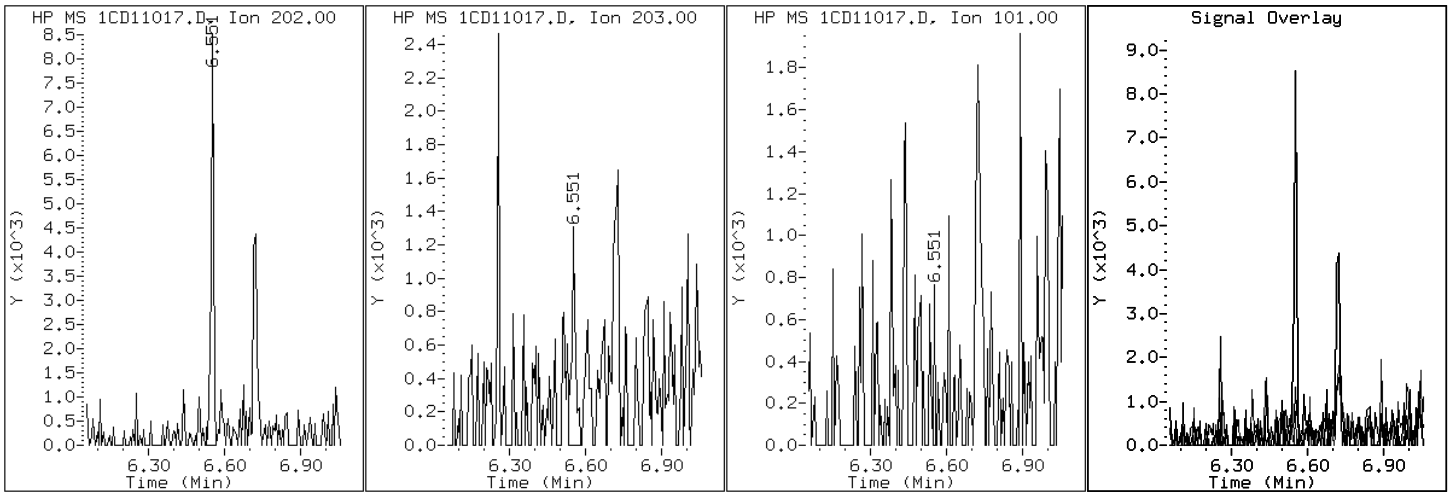
Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC

15 Fluoranthene



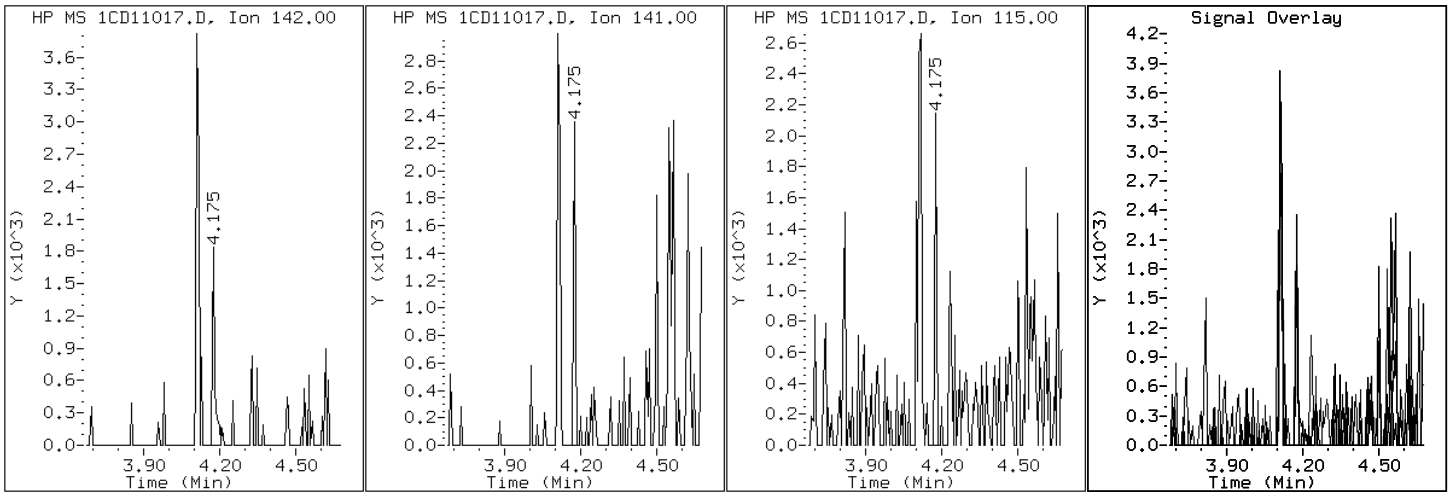
Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC

4 1-Methylnaphthalene



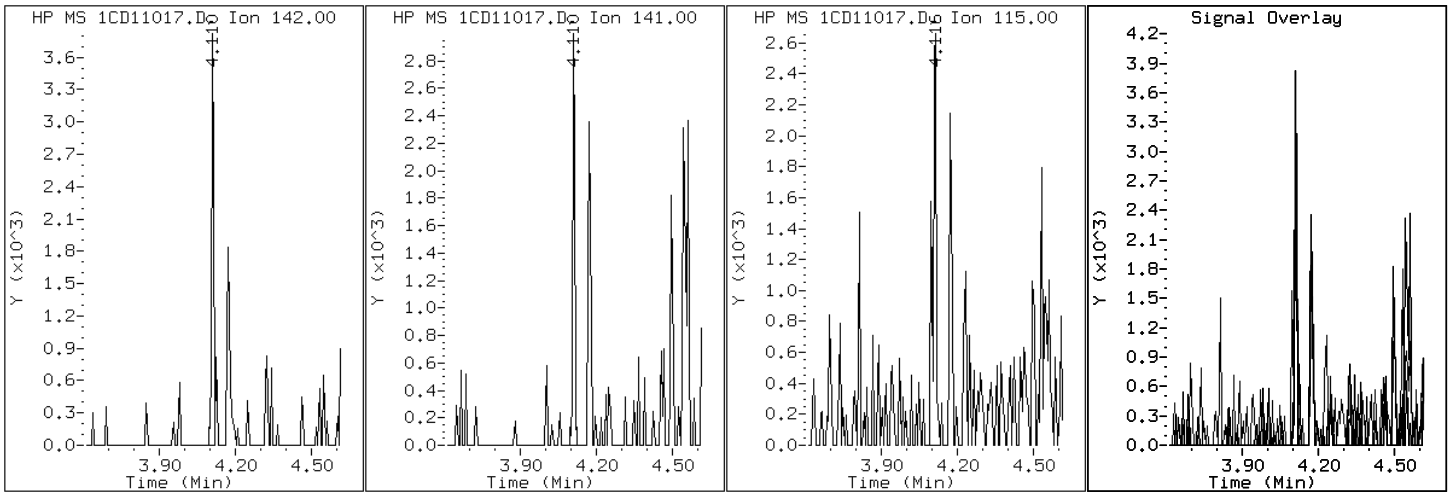
Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC

3 2-Methylnaphthalene



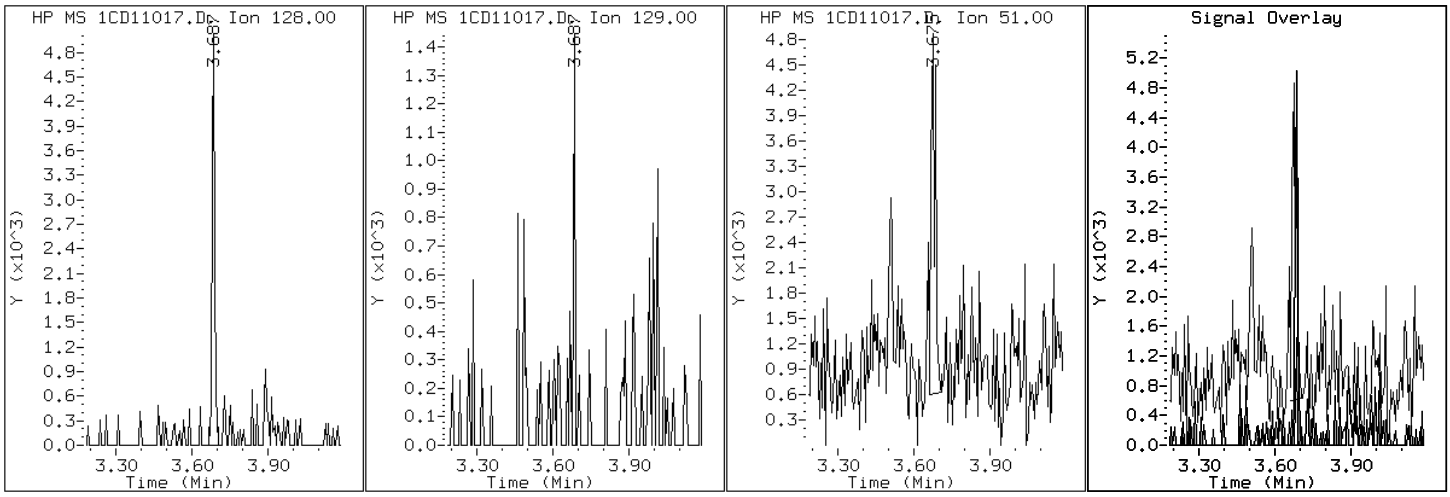
Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC

2 Naphthalene



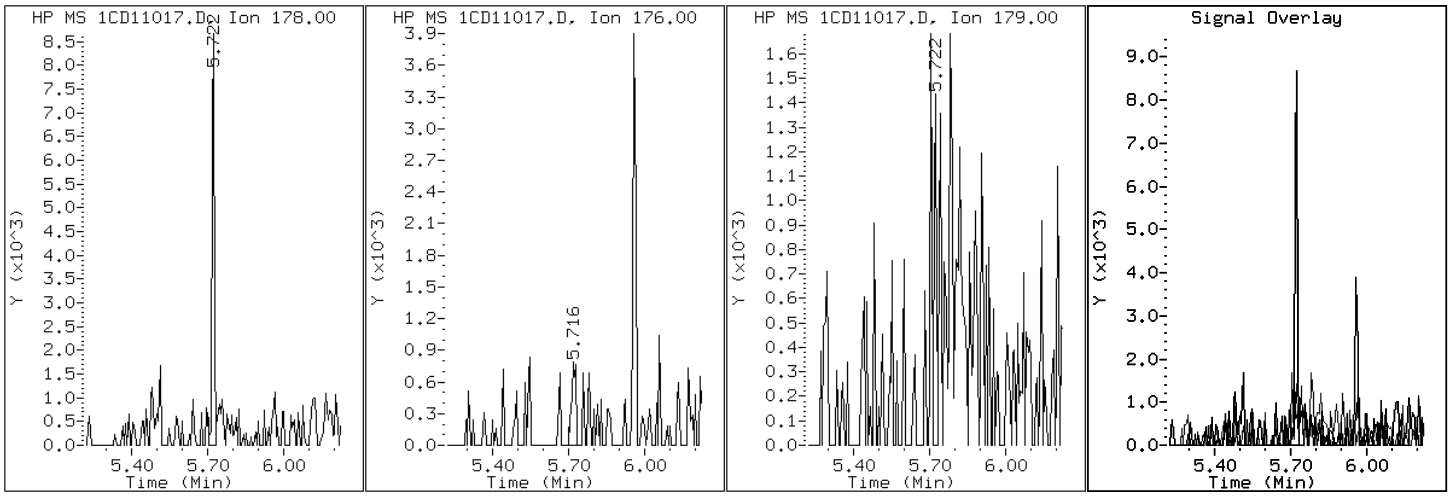
Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC

11 Phenanthrene



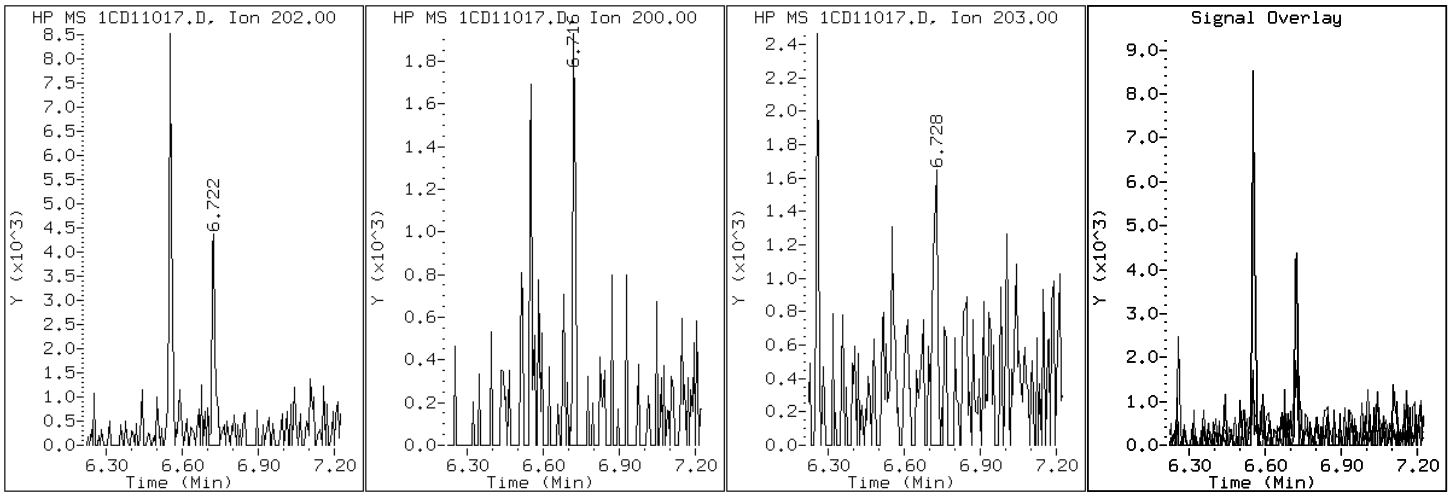
Data File: 1CD11017.D

Date: 11-APR-2013 16:41

Client ID: CV0151B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-23-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD11017.D
Inj. Date and Time: 11-APR-2013 16:41
Instrument ID: BSMC5973.i
Client ID: CV0151B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/12/2013

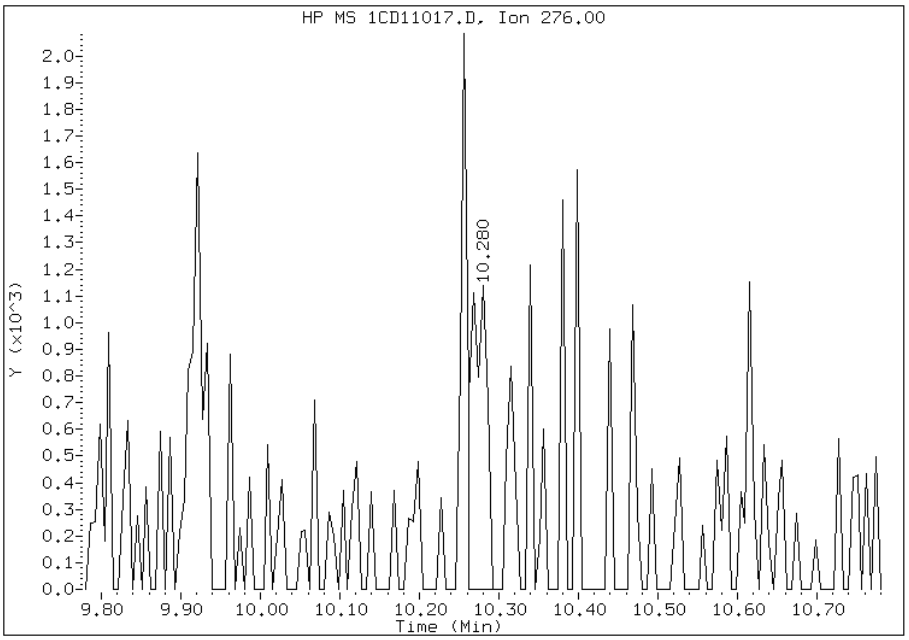
Processing Integration Results

RT: 10.28

Response: 1580

Amount: 0

Conc: 13



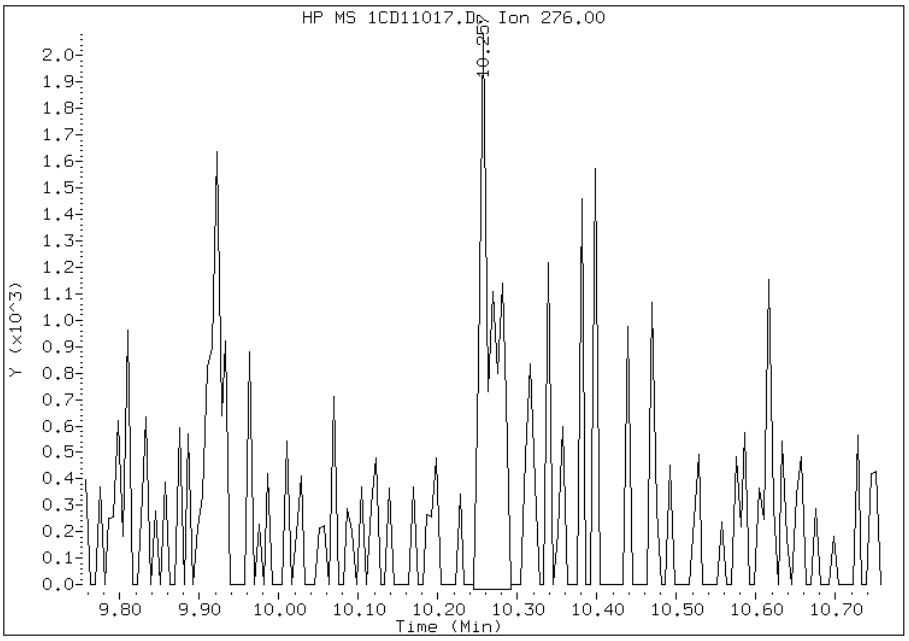
Manual Integration Results

RT: 10.26

Response: 2665

Amount: 0

Conc: 22



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:00
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88980-2

SDG No.: 68088980-2

Client Sample ID: CV1236A-CS | Lab Sample ID: 680-88980-24

Matrix: Solid | Lab File ID: 1CD11018.D

Analysis Method: 8270C LL | Date Collected: 04/02/2013 14:55

Extract. Method: 3546 | Date Extracted: 04/09/2013 13:55

Sample wt/vol: 14.94(g) | Date Analyzed: 04/11/2013 17:00

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

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

% Moisture: 35.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136370 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	62	U	62	7.7
120-12-7	Anthracene	13	U	13	6.5
56-55-3	Benzo[a]anthracene	44		12	6.0
50-32-8	Benzo[a]pyrene	34		16	8.1
205-99-2	Benzo[b]fluoranthene	73		19	9.5
191-24-2	Benzo[g,h,i]perylene	29	J	31	6.8
207-08-9	Benzo[k]fluoranthene	21		12	5.6
218-01-9	Chrysene	30		14	7.0
53-70-3	Dibenz(a,h)anthracene	31	U	31	6.4
206-44-0	Fluoranthene	55		31	6.2
86-73-7	Fluorene	31	U	31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	31	U	31	11
90-12-0	1-Methylnaphthalene	8.4	J	62	6.8
91-57-6	2-Methylnaphthalene	43	J	62	11
91-20-3	Naphthalene	37	J	62	6.8
85-01-8	Phenanthrene	54		12	6.0
129-00-0	Pyrene	58		31	5.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11018.D
Lab Smp Id: 680-88980-A-24-A Client Smp ID: CV1236A-CS
Inj Date : 11-APR-2013 17:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-24-a
Misc Info : 680-88980-A-24-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	35.209	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.675	3.675	(1.000)	280165	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	200690	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	368742	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	40167	7.26771	750.8106
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	414981	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000)	412394	40.0000	
	2 Naphthalene	128	3.686	3.687	(1.003)	2726	0.35995	37.1855
	3 2-Methylnaphthalene	142	4.116	4.115	(1.120)	734	0.41763	43.1446
	4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	393	0.08124	8.3926(Q)
	11 Phenanthrene	178	5.721	5.722	(1.003)	5621	0.52654	54.3960
	13 Carbazole	167	5.869	5.863	(1.029)	1098	0.11013	11.3772(Q)
	15 Fluoranthene	202	6.557	6.557	(1.150)	6362	0.53185	54.9439
	16 Pyrene	202	6.716	6.722	(0.879)	6589	0.55812	57.6577
	17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	5026	0.42830	44.2463(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	7.657	7.663	(1.002)	3420	0.29461	30.4351(Q)
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	7405	0.71092	73.4439(M)
21 Benzo(k)fluoranthene	252	8.480	8.486	(0.964)	2392	0.20295	20.9660(M)
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	3573	0.33185	34.2827
26 Benzo(g,h,i)perylene	276	10.262	10.269	(1.166)	2808	0.27824	28.7448

QC Flag Legend

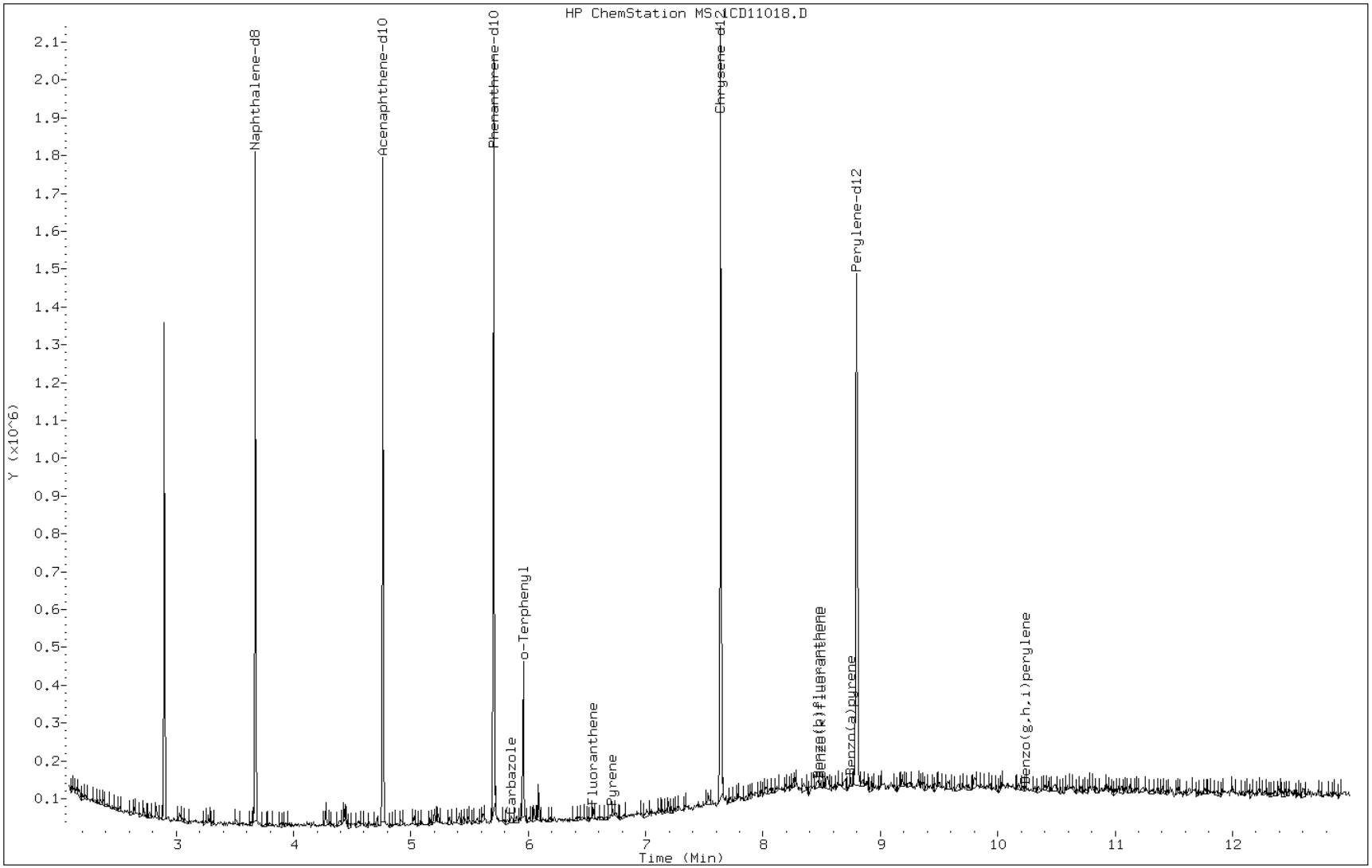
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC



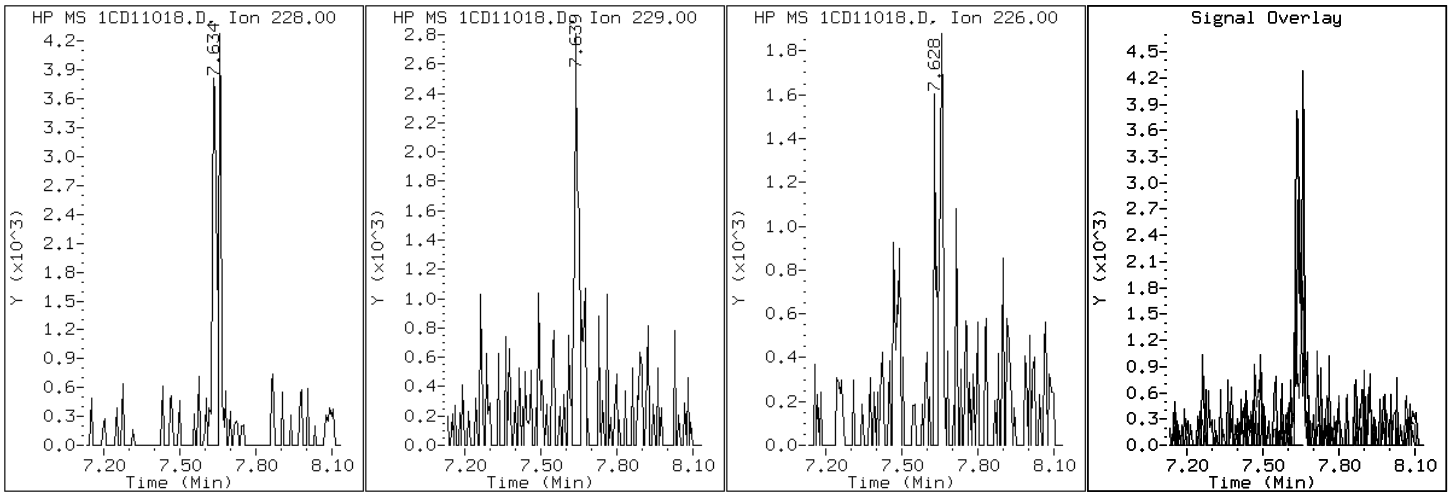
Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC

17 Benzo(a)anthracene



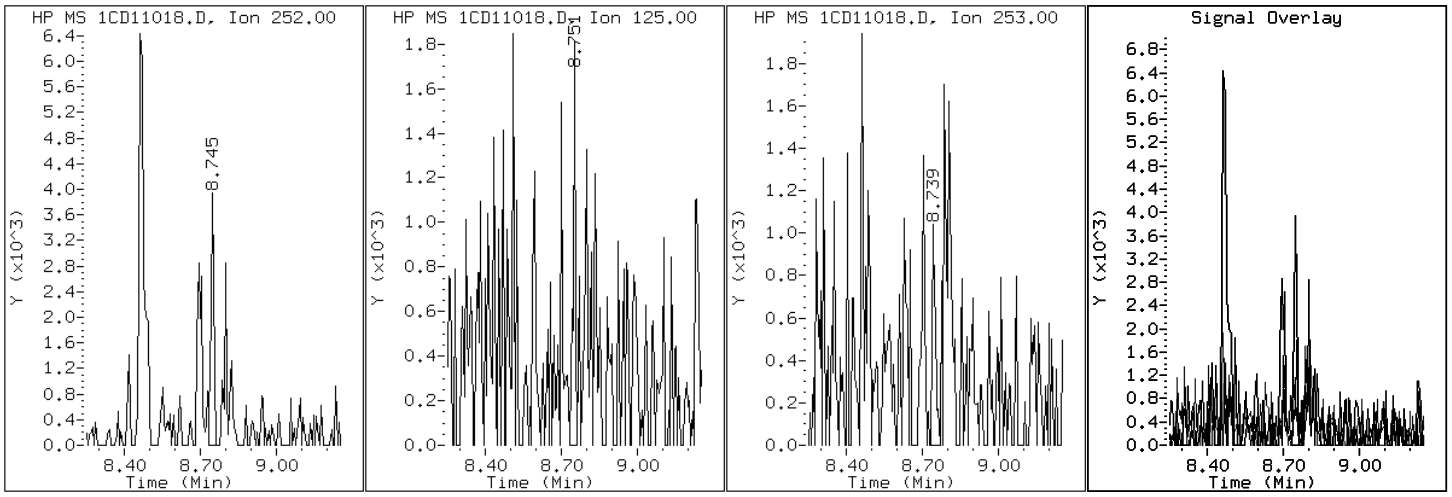
Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC

22 Benzo(a)pyrene



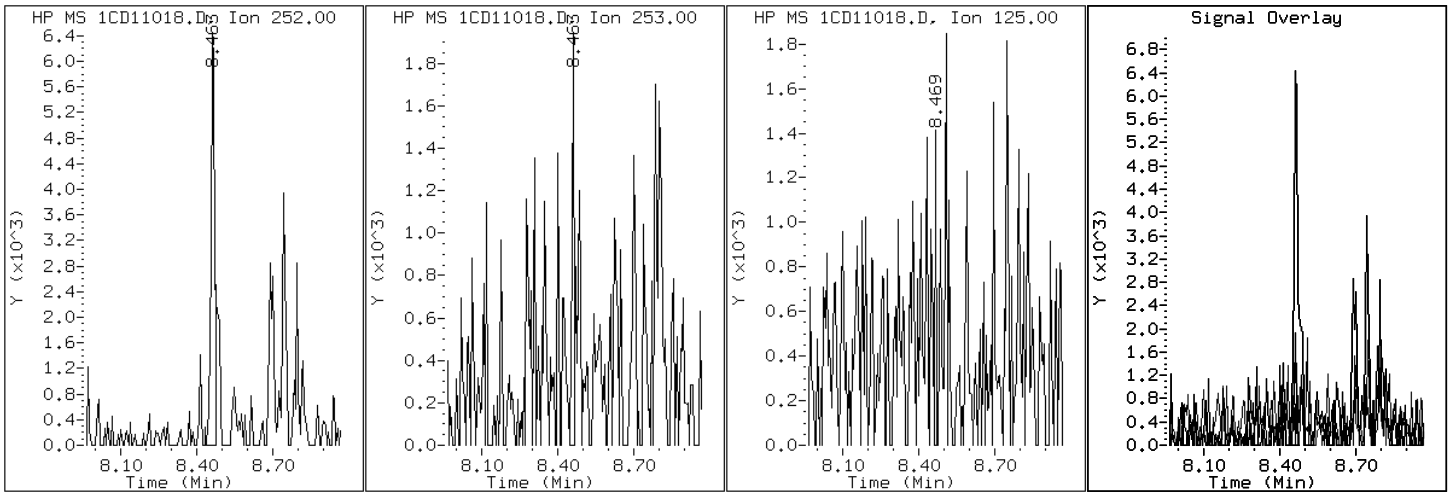
Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC

20 Benzo(b)fluoranthene



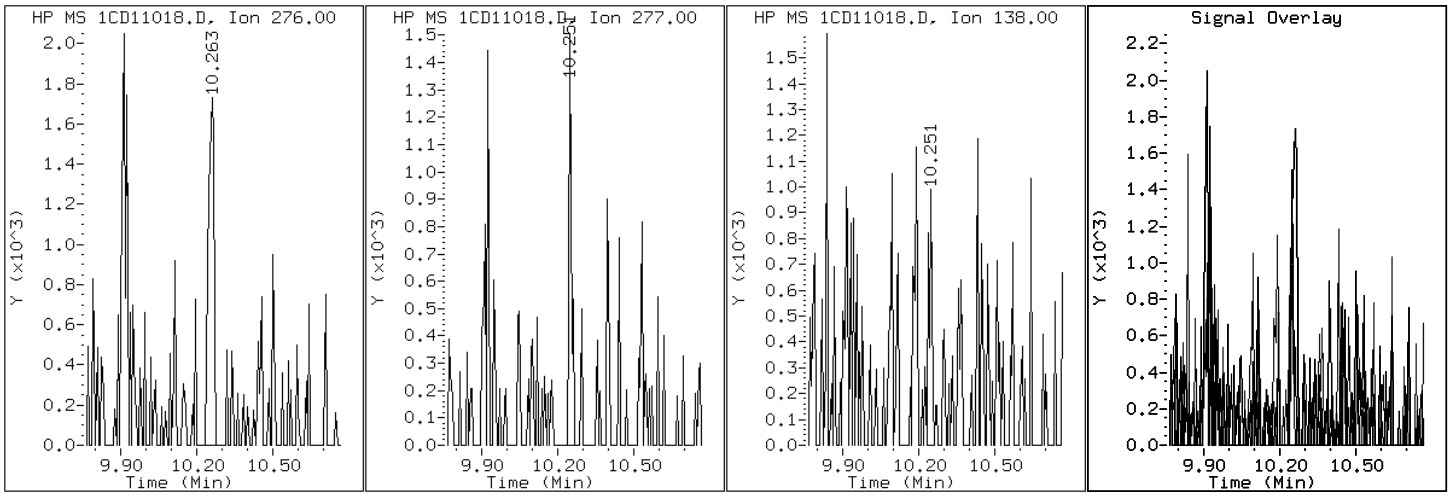
Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC

26 Benzo(g,h,i)perylene



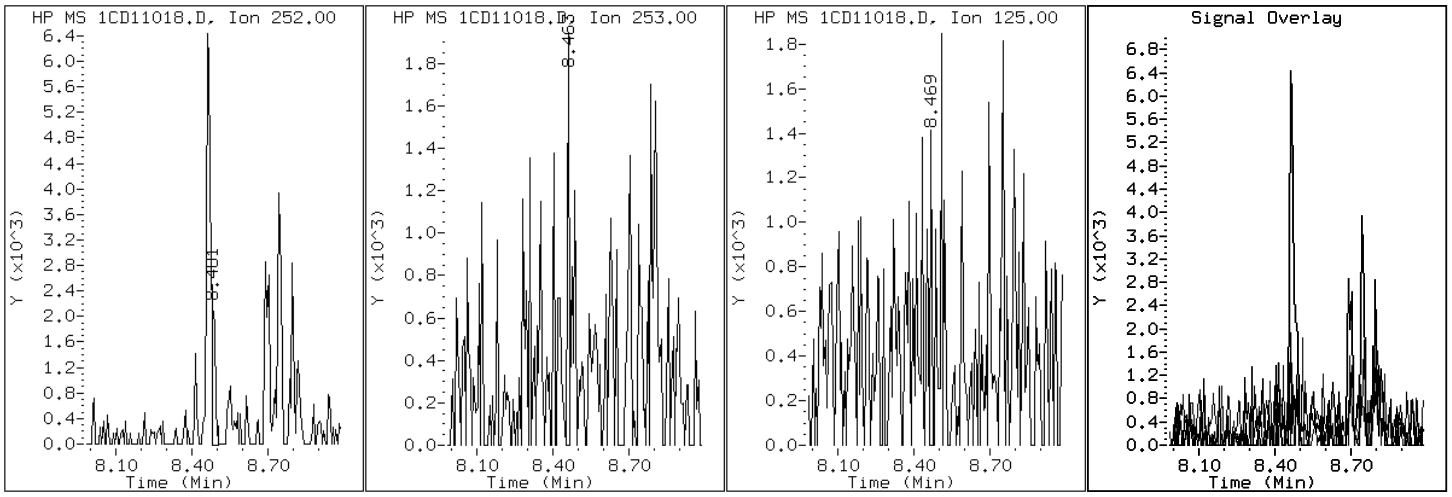
Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC

21 Benzo(k)fluoranthene



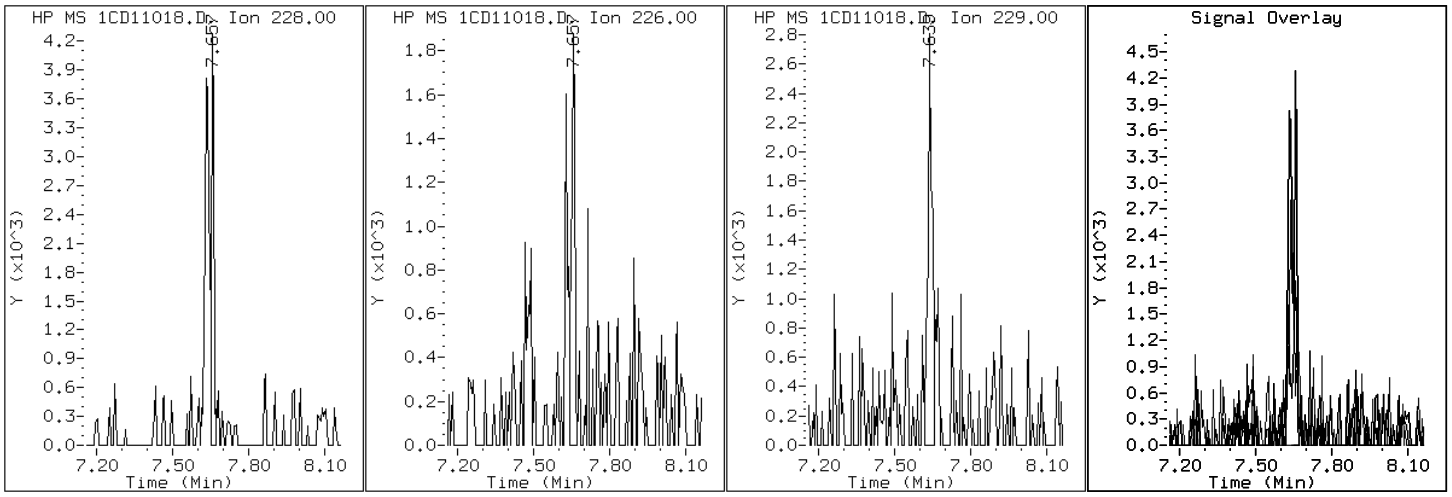
Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC

19 Chrysene



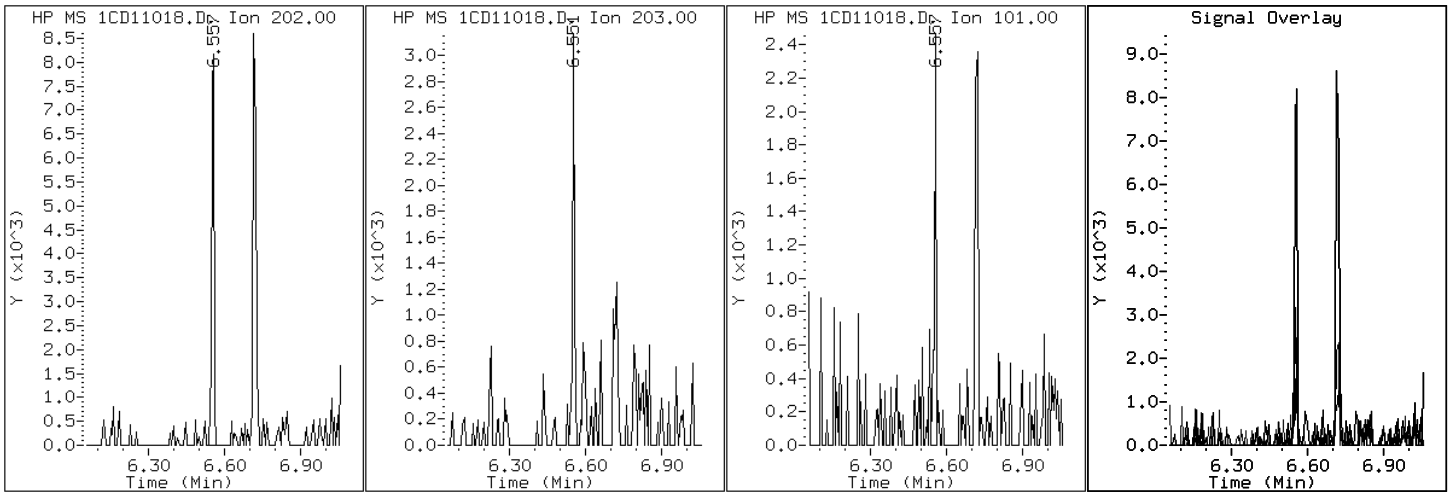
Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC

15 Fluoranthene



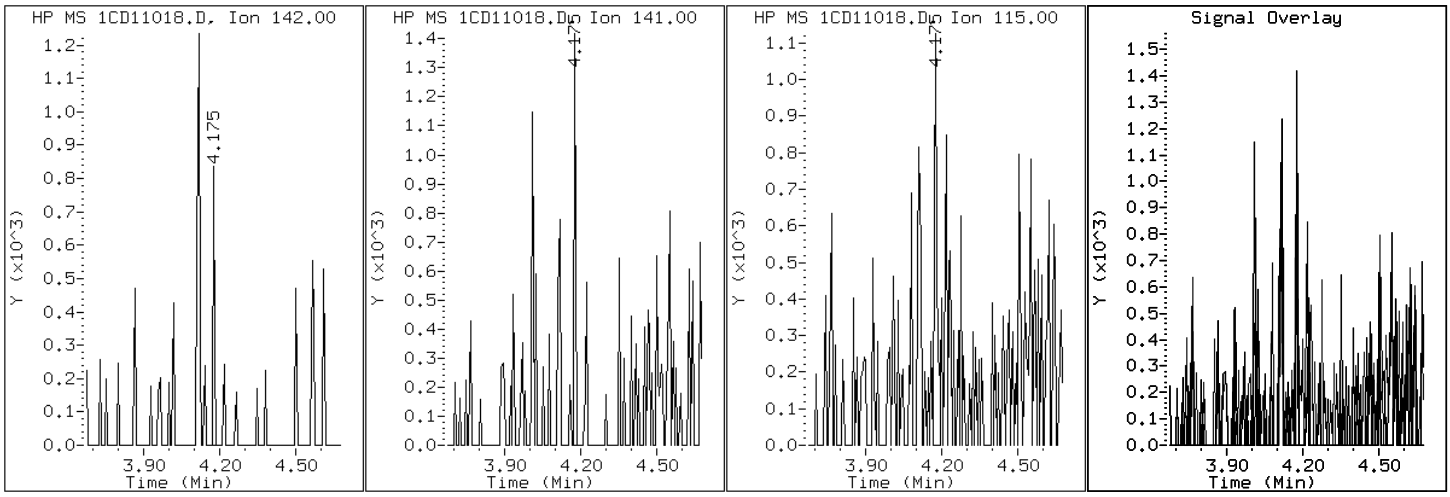
Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC

4 1-Methylnaphthalene



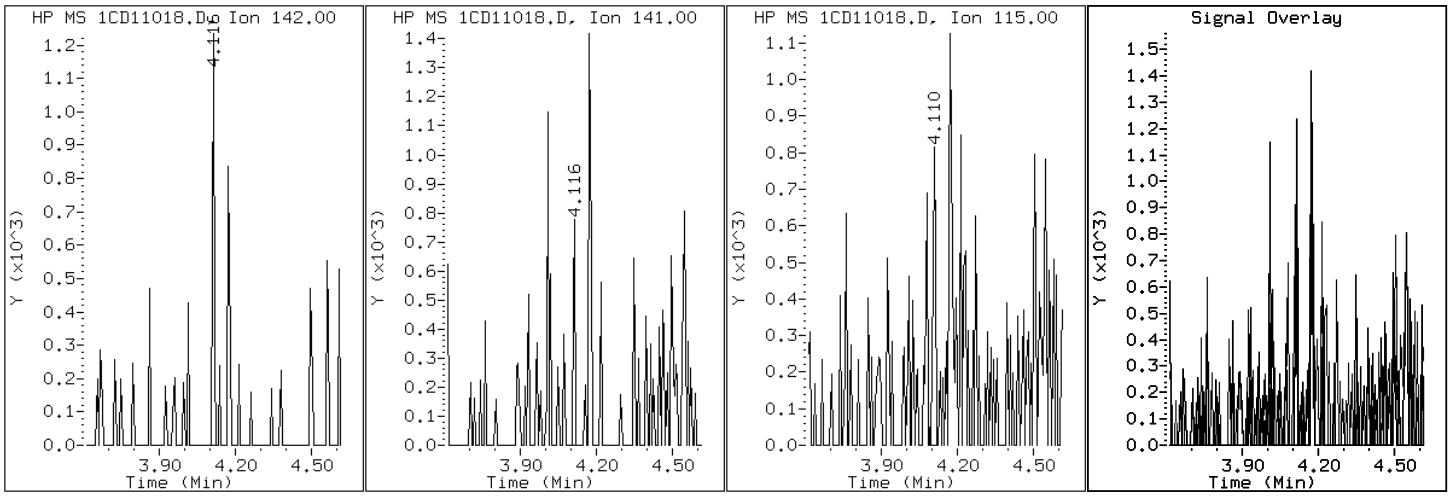
Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC

3 2-Methylnaphthalene



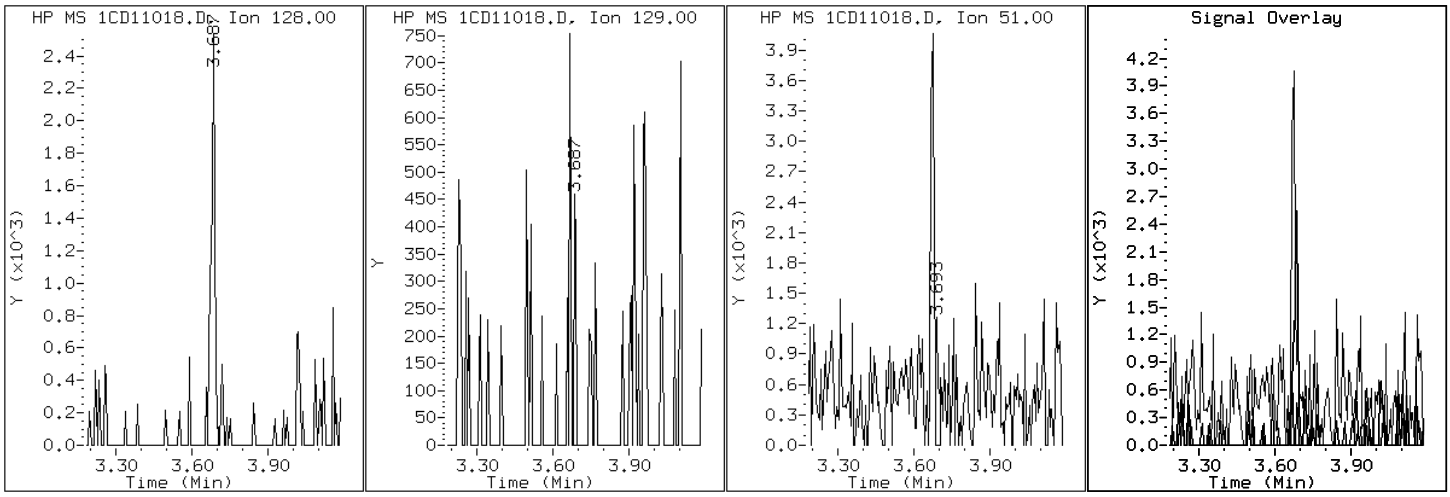
Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC

2 Naphthalene



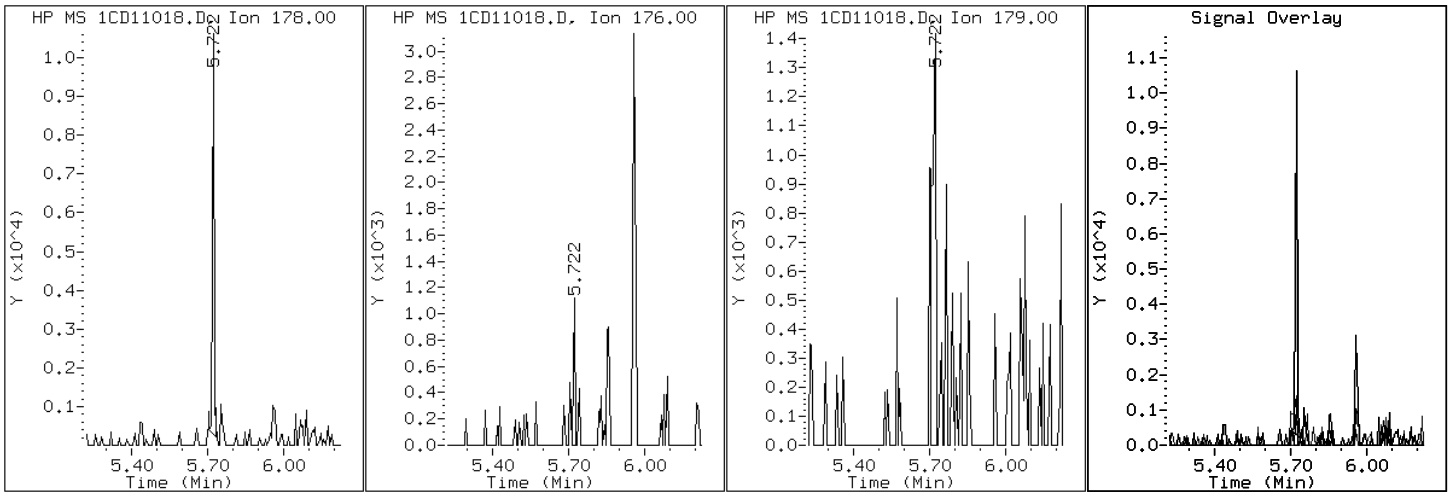
Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC

11 Phenanthrene



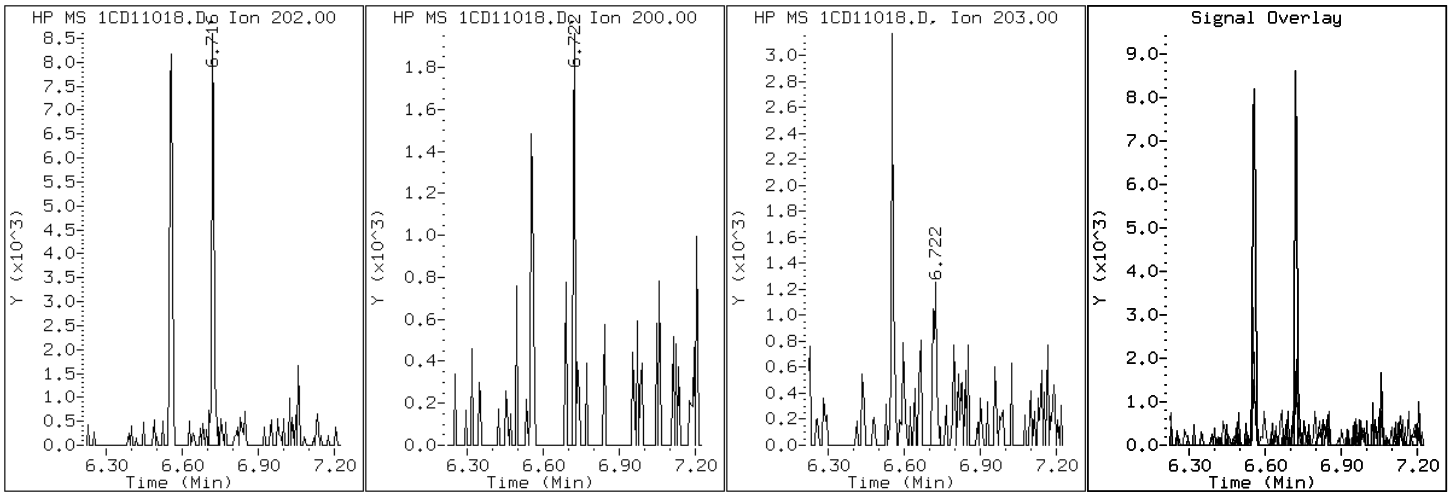
Data File: 1CD11018.D

Date: 11-APR-2013 17:00

Client ID: CV1236A-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-24-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD11018.D
Inj. Date and Time: 11-APR-2013 17:00
Instrument ID: BSMC5973.i
Client ID: CV1236A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/12/2013

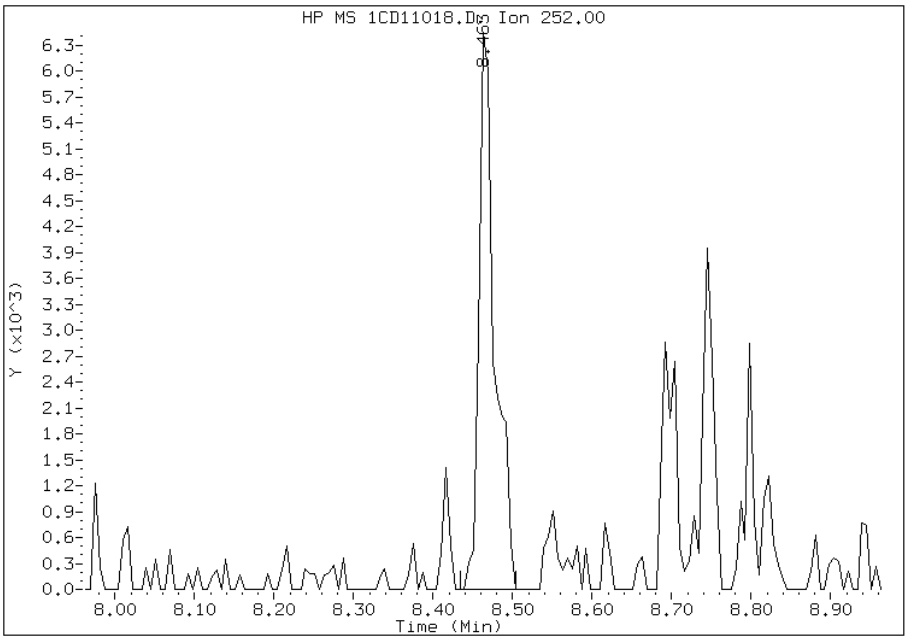
Processing Integration Results

RT: 8.46

Response: 8977

Amount: 1

Conc: 89



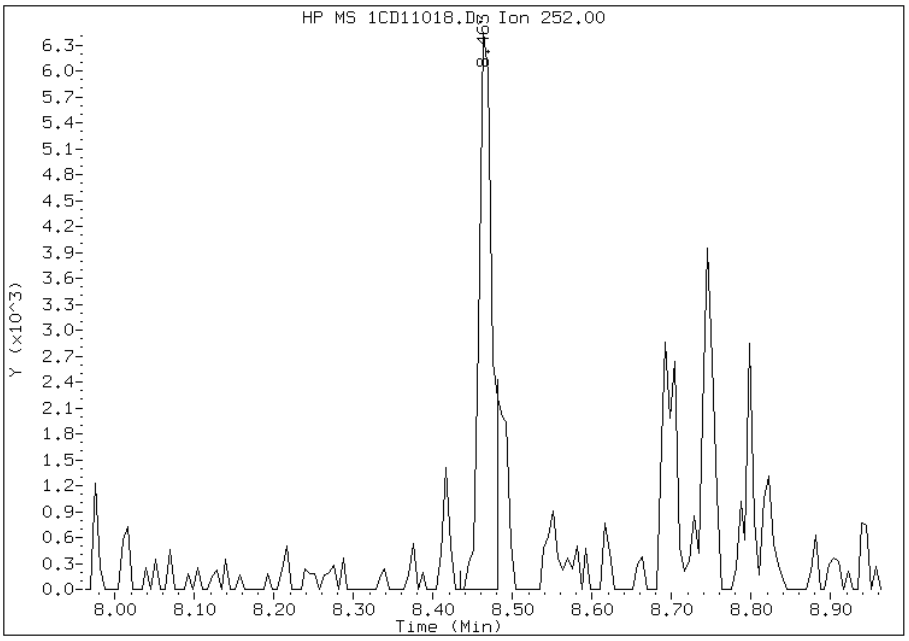
Manual Integration Results

RT: 8.46

Response: 7405

Amount: 1

Conc: 73



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11018.D
Inj. Date and Time: 11-APR-2013 17:00
Instrument ID: BSMC5973.i
Client ID: CV1236A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/12/2013

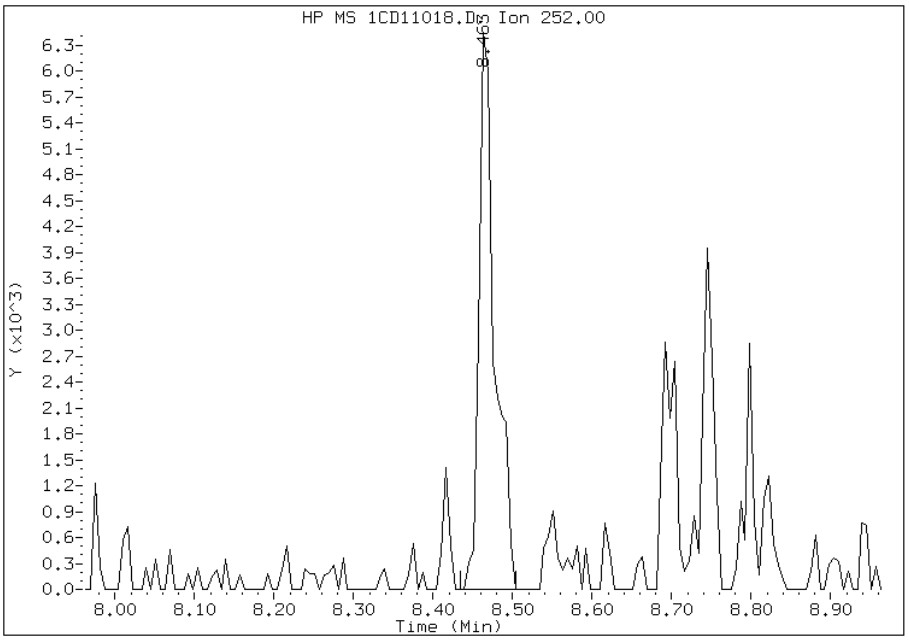
Processing Integration Results

RT: 8.46

Response: 8977

Amount: 1

Conc: 79



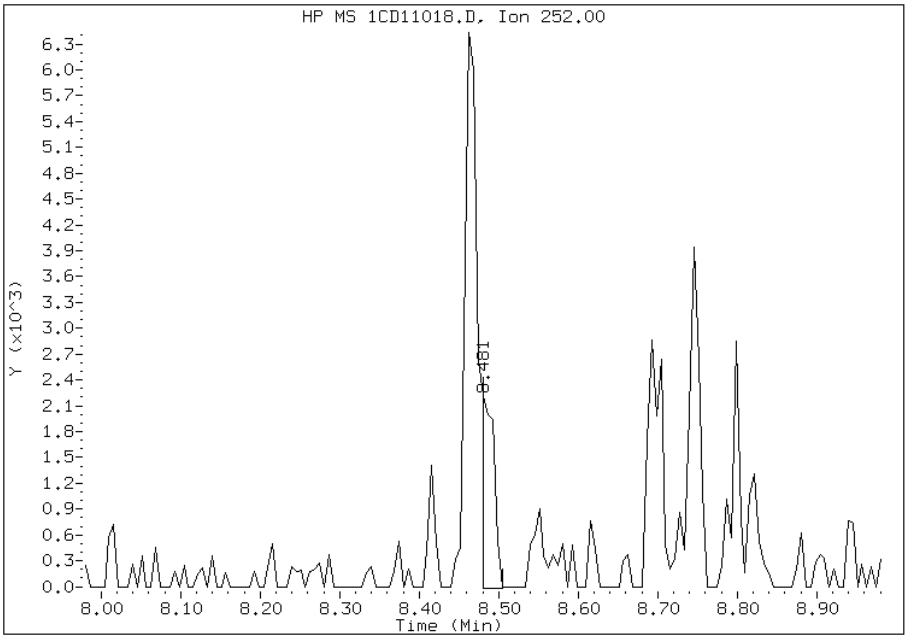
Manual Integration Results

RT: 8.48

Response: 2392

Amount: 0

Conc: 21



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:01
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88980-2

SDG No.: 68088980-2

Client Sample ID: CV1236B-CS | Lab Sample ID: 680-88980-25

Matrix: Solid | Lab File ID: 1CD11019.D

Analysis Method: 8270C LL | Date Collected: 04/02/2013 15:05

Extract. Method: 3546 | Date Extracted: 04/09/2013 13:55

Sample wt/vol: 15.25(g) | Date Analyzed: 04/11/2013 17:18

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

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

% Moisture: 44.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136370 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	180	U	180	35
208-96-8	Acenaphthylene	71	U	71	8.8
120-12-7	Anthracene	49		15	7.4
56-55-3	Benzo[a]anthracene	240		14	6.9
50-32-8	Benzo[a]pyrene	220		18	9.2
205-99-2	Benzo[b]fluoranthene	450		22	11
191-24-2	Benzo[g,h,i]perylene	160		35	7.8
207-08-9	Benzo[k]fluoranthene	130		14	6.4
218-01-9	Chrysene	260		16	7.9
53-70-3	Dibenz(a,h)anthracene	110		35	7.2
206-44-0	Fluoranthene	280		35	7.1
86-73-7	Fluorene	22	J	35	7.2
193-39-5	Indeno[1,2,3-cd]pyrene	180		35	13
90-12-0	1-Methylnaphthalene	47	J	71	7.8
91-57-6	2-Methylnaphthalene	92		71	13
91-20-3	Naphthalene	69	J	71	7.8
85-01-8	Phenanthrene	190		14	6.9
129-00-0	Pyrene	290		35	6.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11019.D
Lab Smp Id: 680-88980-A-25-A Client Smp ID: CV1236B-CS
Inj Date : 11-APR-2013 17:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-25-a
Misc Info : 680-88980-A-25-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	44.255	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.674	3.675	(1.000)	287482	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	210594	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	389736	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	27570	4.96152	583.6346
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	413187	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000)	412476	40.0000	
	2 Naphthalene	128	3.686	3.687	(1.003)	4575	0.58872	69.2525(Q)
	3 2-Methylnaphthalene	142	4.116	4.115	(1.120)	2631	0.77894	91.6289
	4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	1986	0.40009	47.0636
	9 Fluorene	166	5.098	5.104	(1.070)	1266	0.18499	21.7608(Q)
	11 Phenanthrene	178	5.721	5.722	(1.003)	18091	1.58722	186.7087
	12 Anthracene	178	5.751	5.757	(1.008)	4756	0.42035	49.4464
	13 Carbazole	167	5.863	5.863	(1.028)	3304	0.31354	36.8824(Q)
	15 Fluoranthene	202	6.551	6.557	(1.148)	30212	2.38960	281.0942

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.721	6.722	(0.880)	29090	2.47475	291.1102
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	23839	2.04029	240.0042
19 Chrysene	228	7.657	7.663	(1.002)	25145	2.17545	255.9037
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.963)	39973	3.83688	451.3415(M)
21 Benzo(k)fluoranthene	252	8.480	8.486	(0.964)	13169	1.11709	131.4062(M)
22 Benzo(a)pyrene	252	8.751	8.751	(0.995)	20038	1.86071	218.8793
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.128)	9152	1.49483	175.8404(M)
25 Dibenzo(a,h)anthracene	278	9.933	9.945	(1.129)	4853	0.90649	106.6324(MH)
26 Benzo(g,h,i)perylene	276	10.262	10.269	(1.166)	13809	1.36806	160.9281(M)

QC Flag Legend

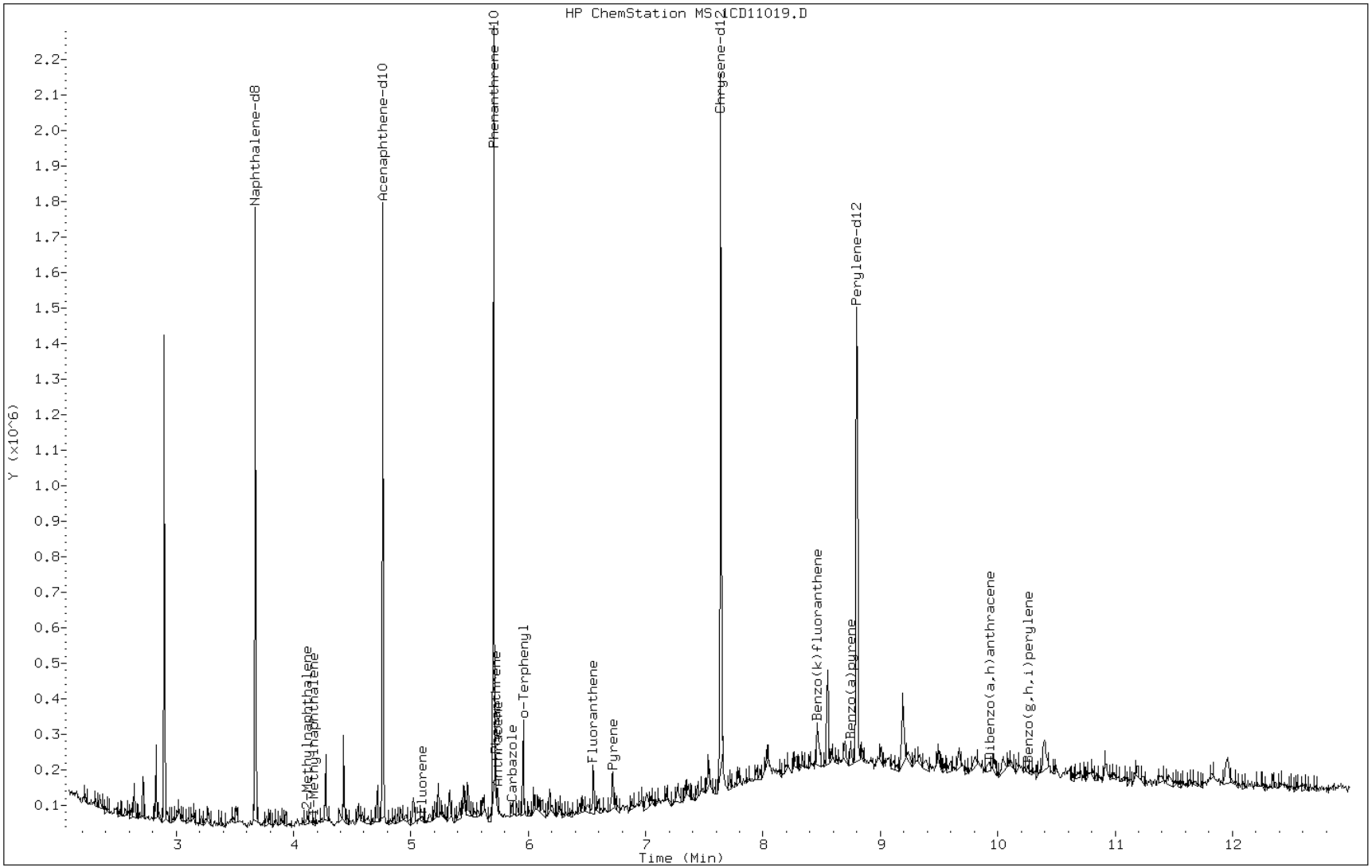
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC



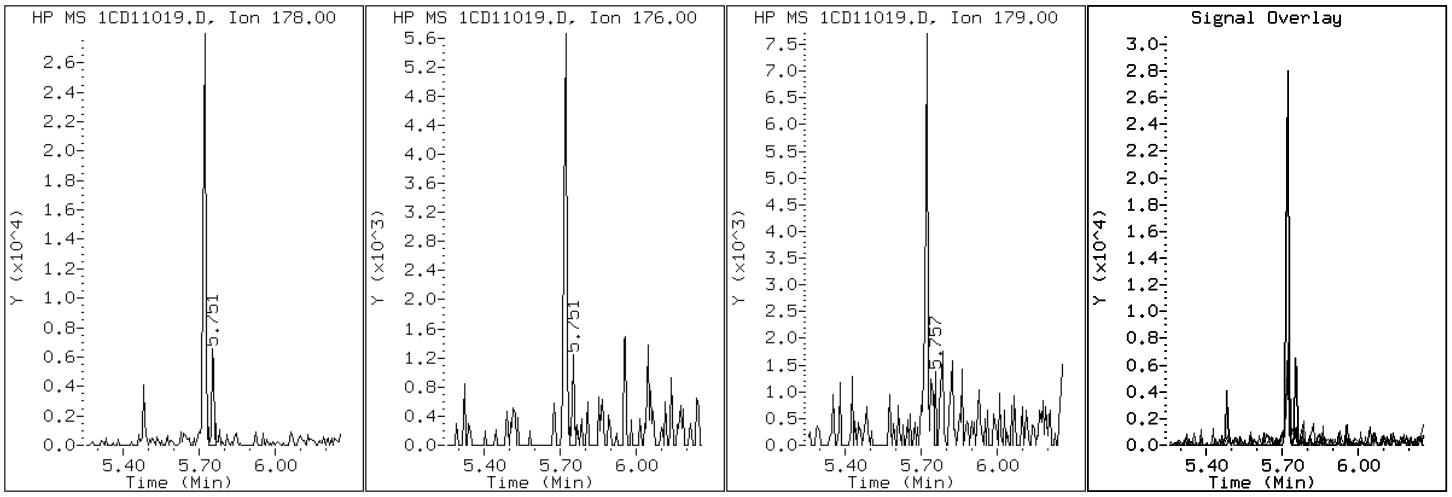
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

12 Anthracene



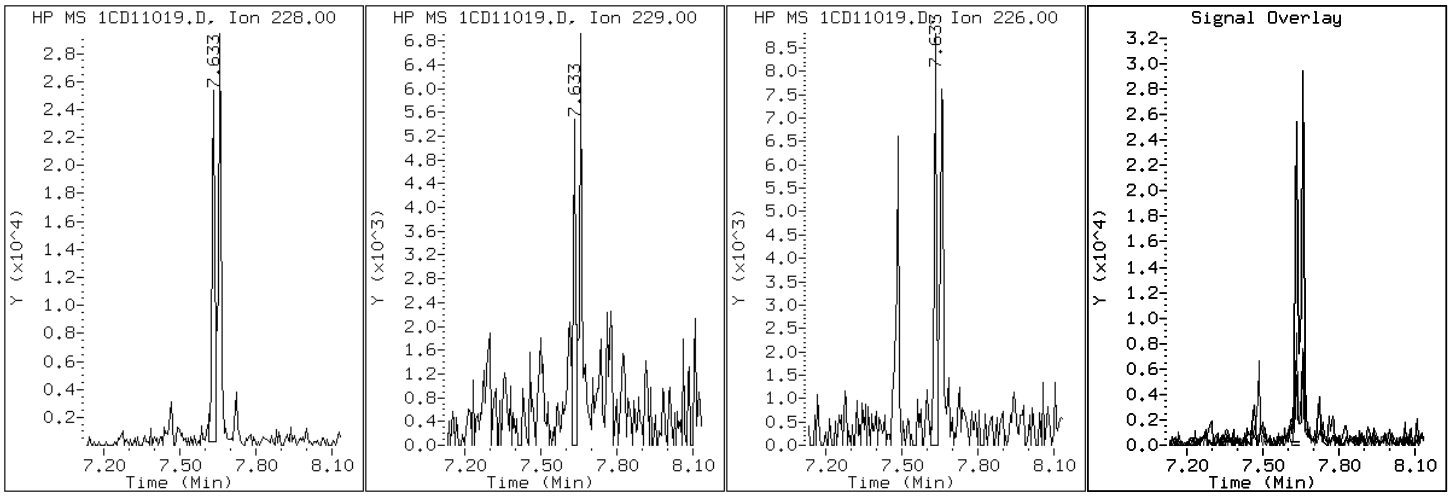
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

17 Benzo(a)anthracene



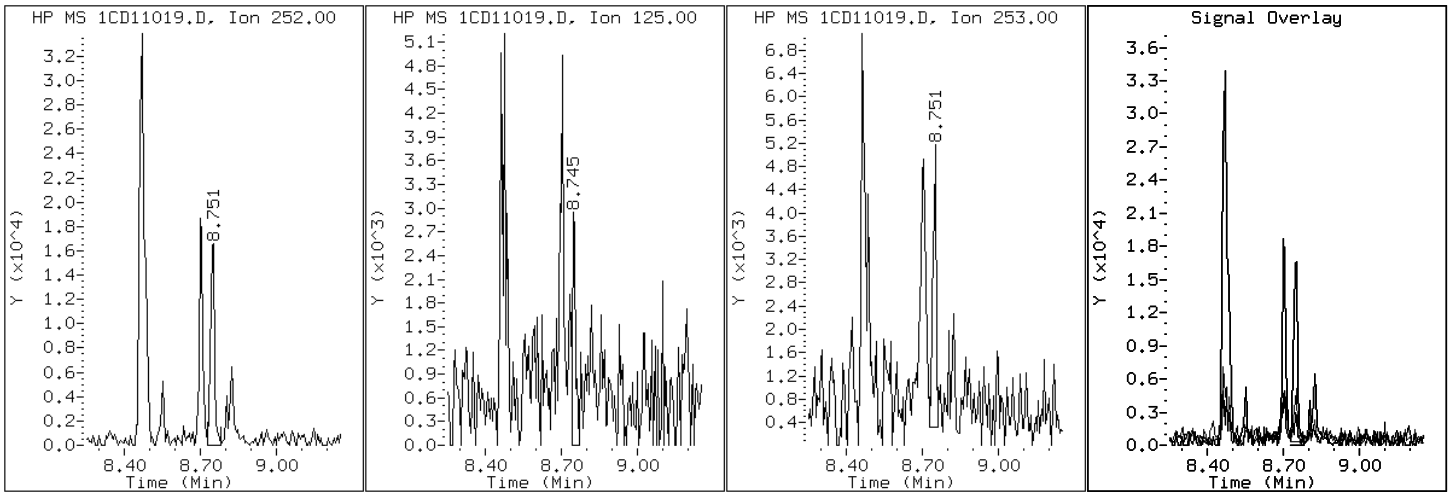
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

22 Benzo(a)pyrene



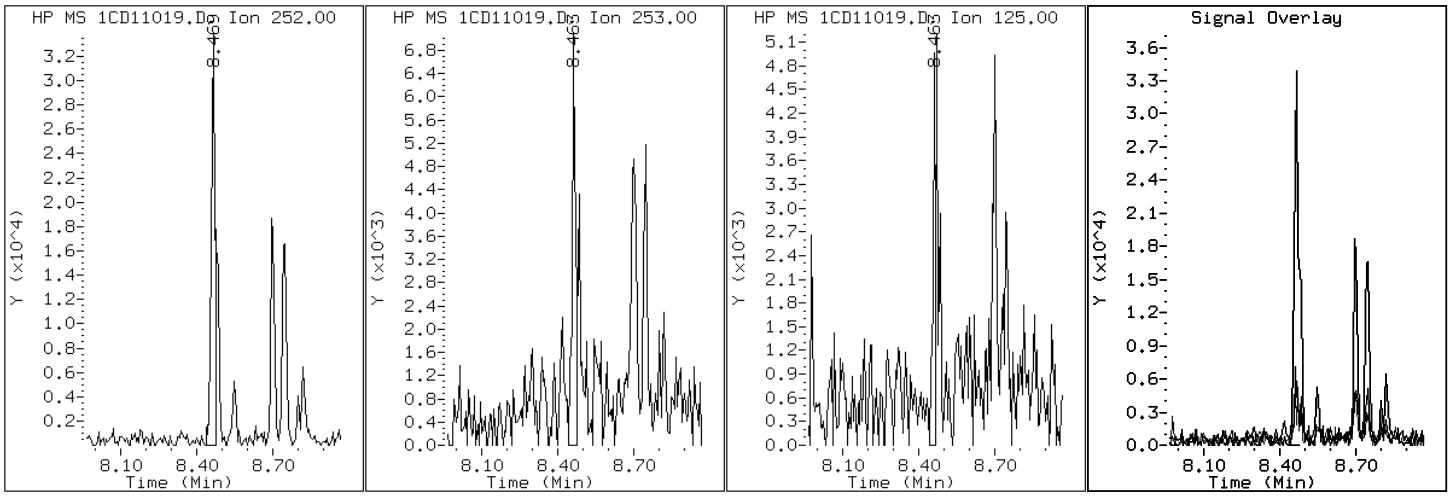
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

20 Benzo(b)fluoranthene



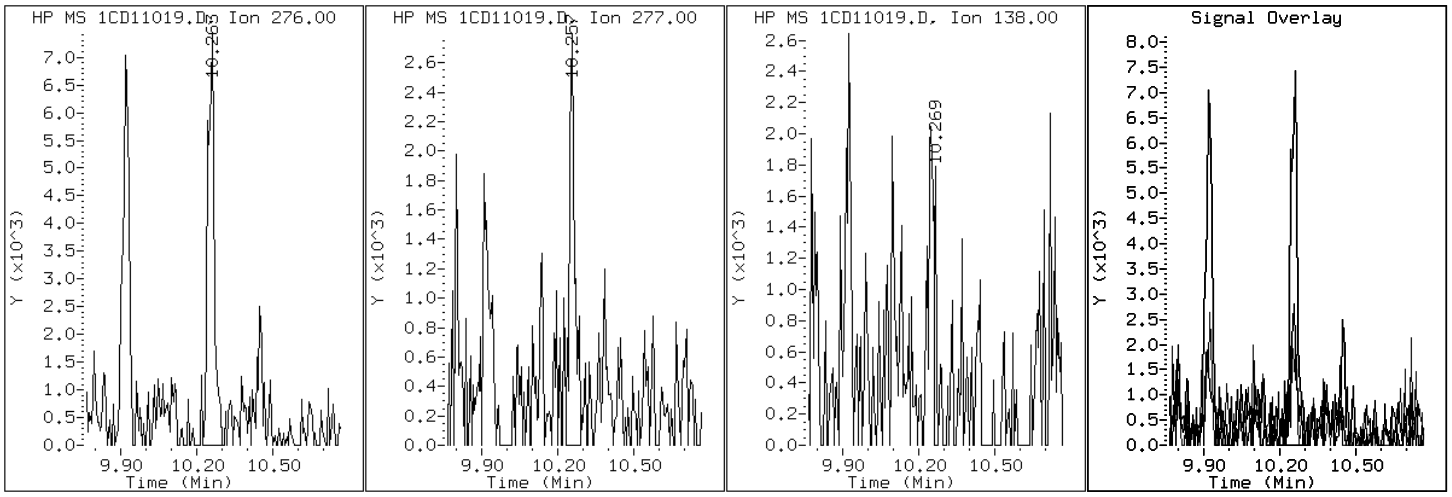
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

26 Benzo(g,h,i)perylene



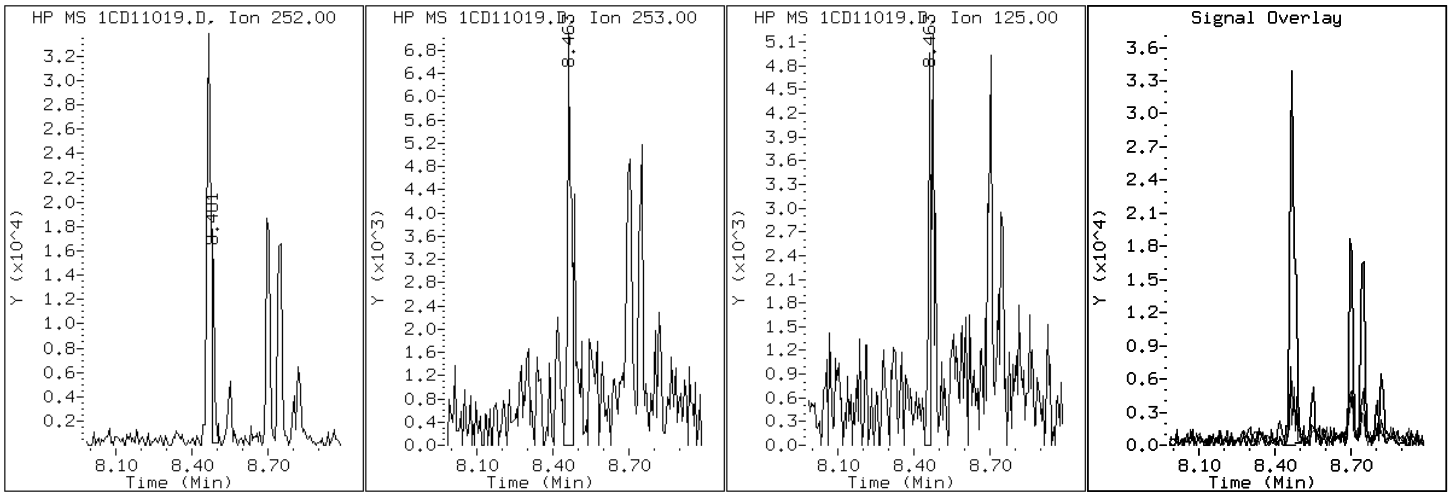
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

21 Benzo(k)fluoranthene



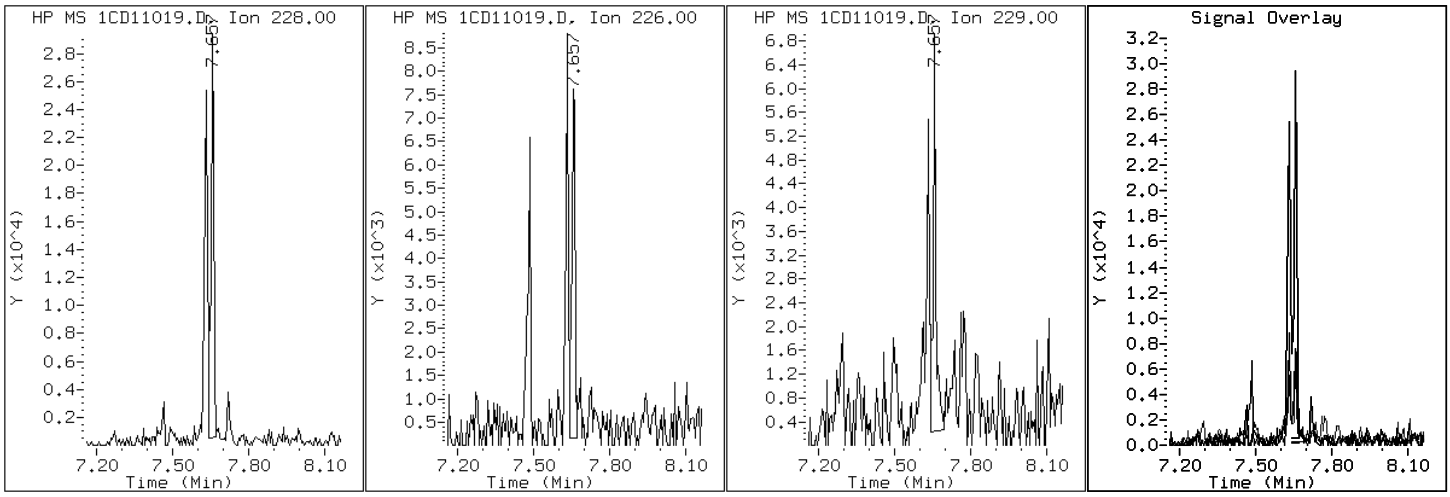
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

19 Chrysene



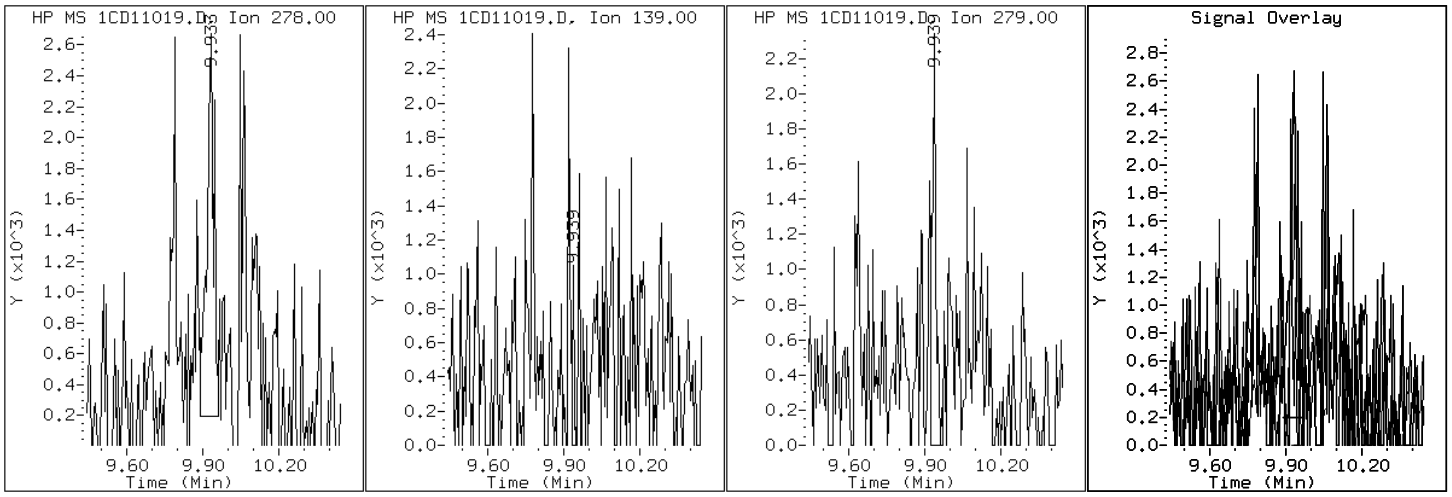
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

25 Dibenzo(a,h)anthracene



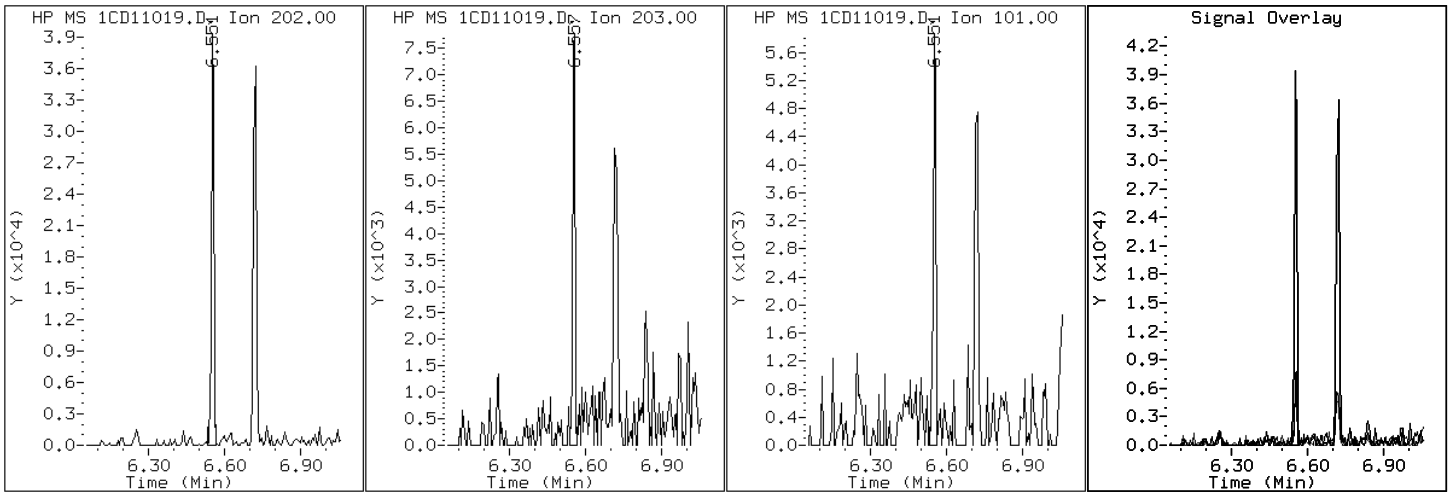
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

15 Fluoranthene



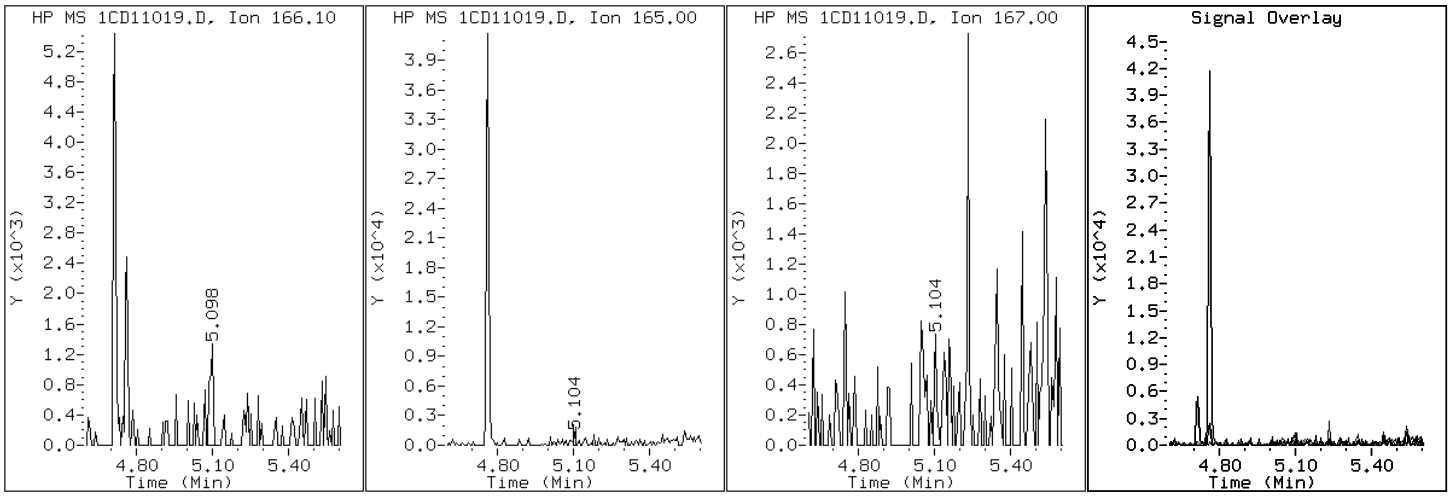
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

9 Fluorene



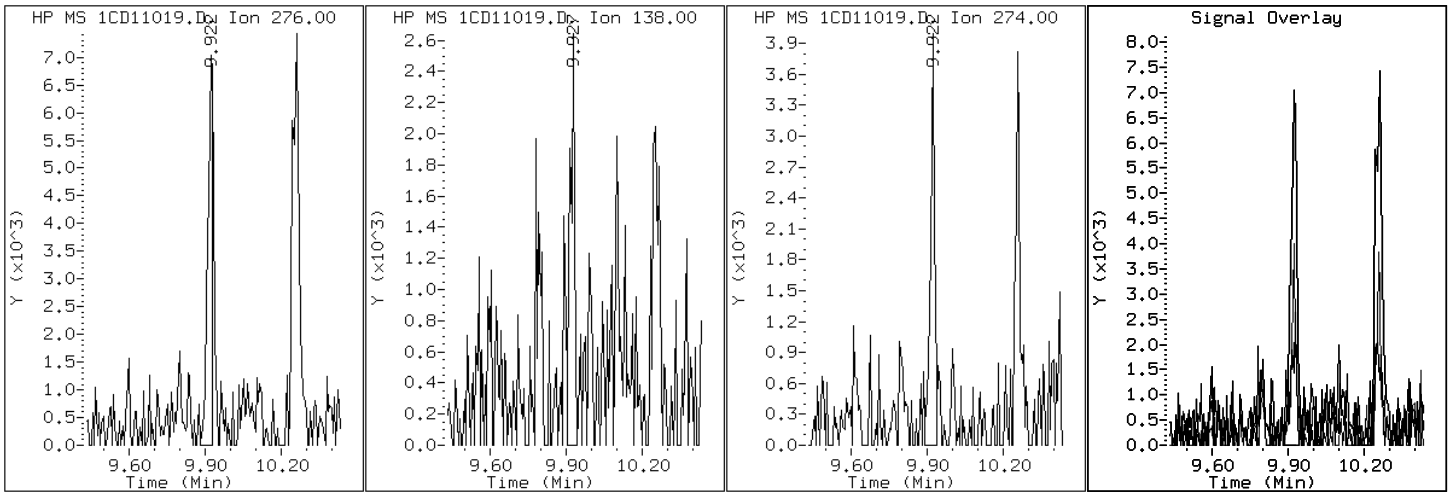
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

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



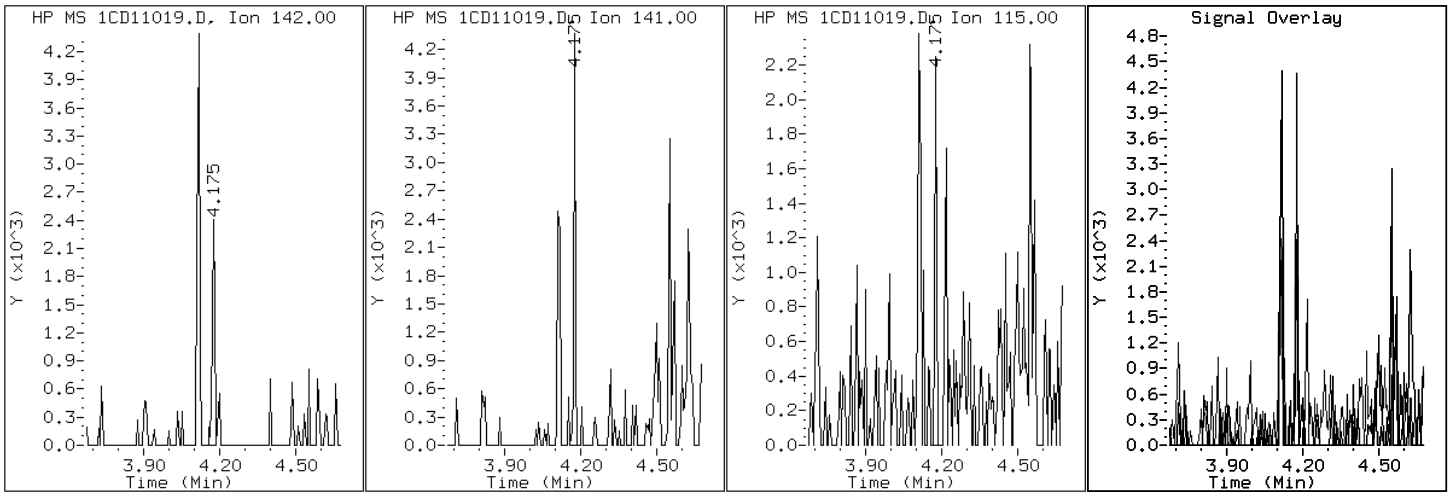
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

4 1-Methylnaphthalene



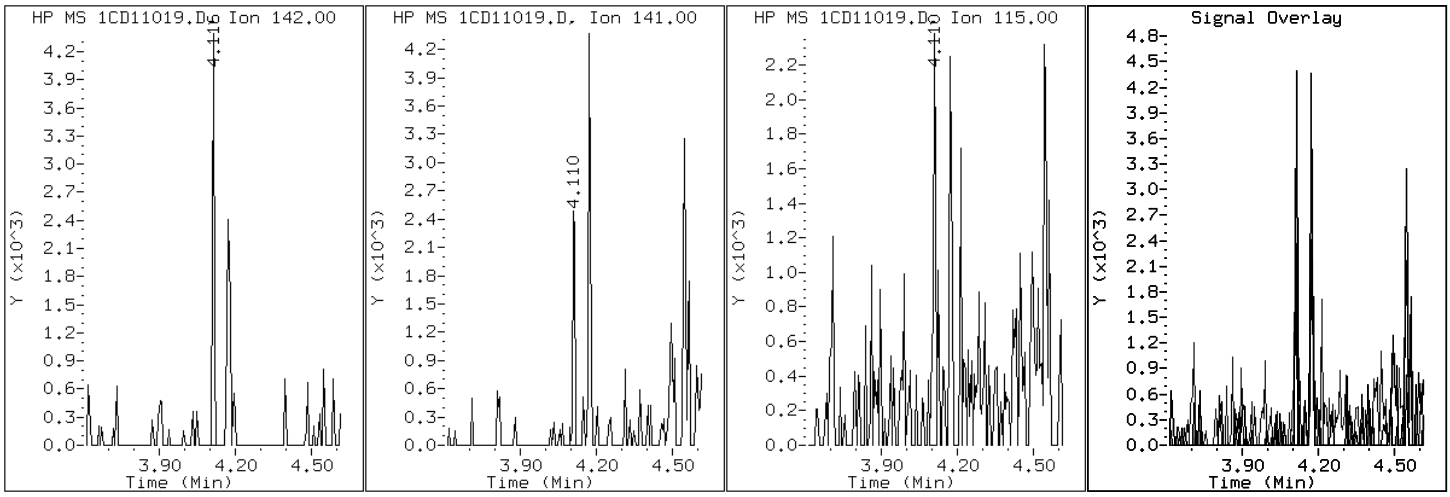
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

3 2-Methylnaphthalene



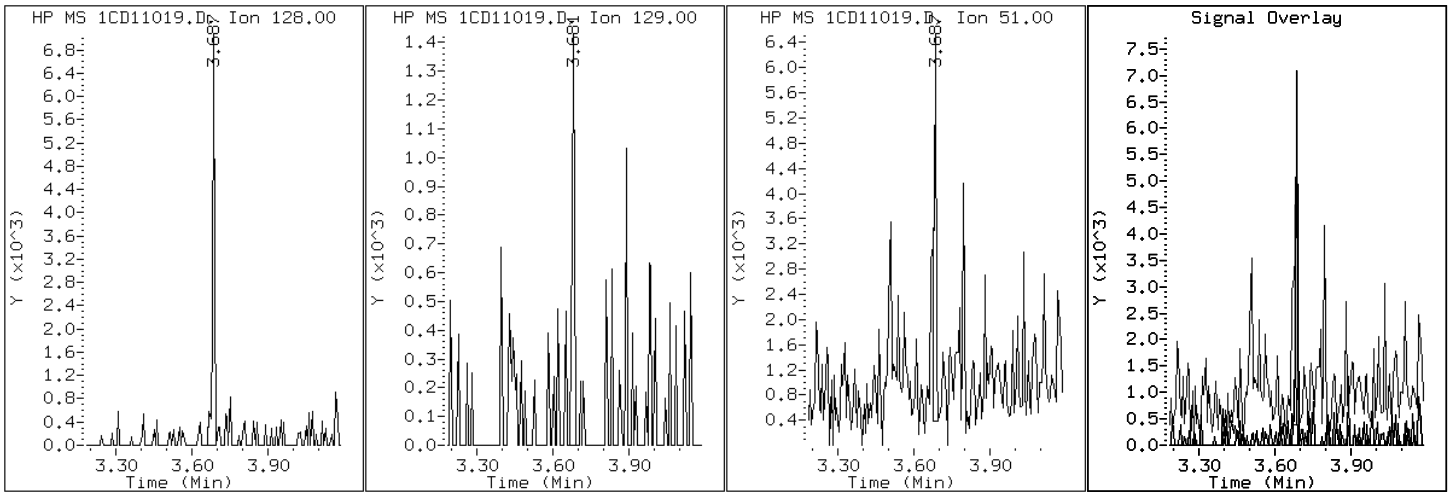
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

2 Naphthalene



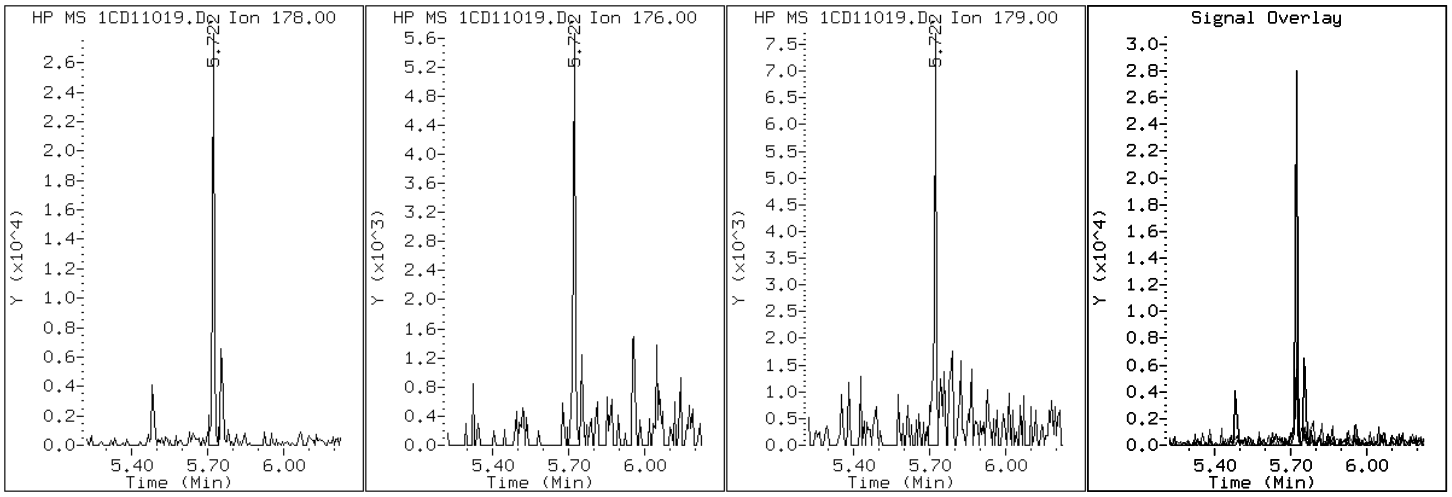
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

11 Phenanthrene



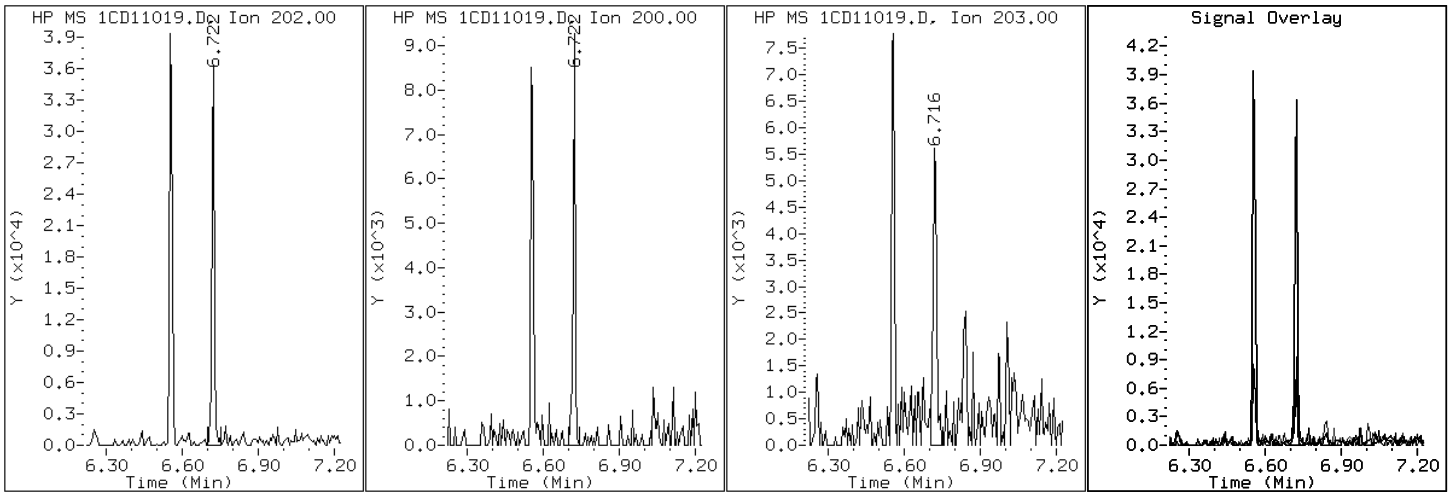
Data File: 1CD11019.D

Date: 11-APR-2013 17:18

Client ID: CV1236B-CS Instrument: BSMC5973.i

Sample Info: 680-88980-a-25-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD11019.D
Inj. Date and Time: 11-APR-2013 17:18
Instrument ID: BSMC5973.i
Client ID: CV1236B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/12/2013

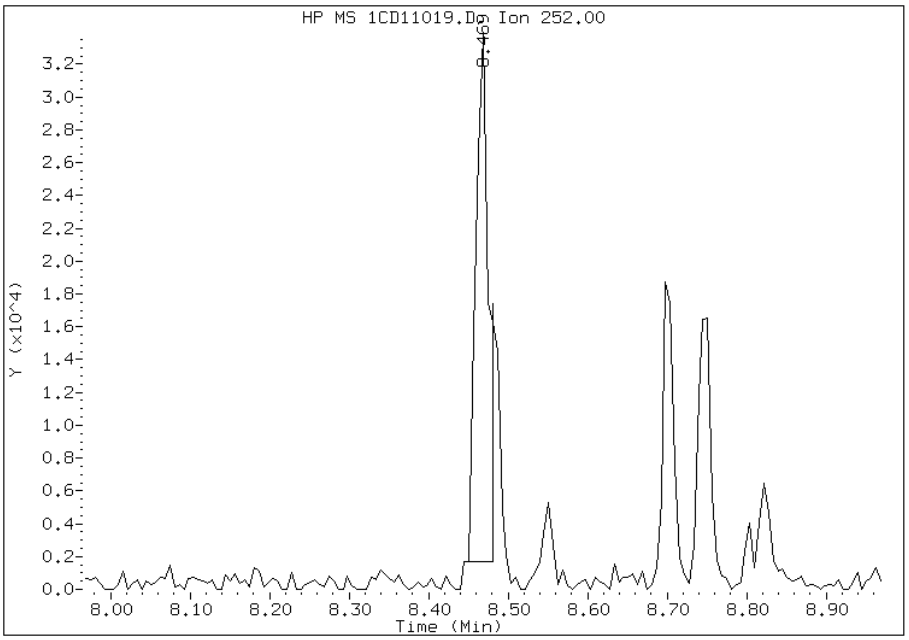
Processing Integration Results

RT: 8.47

Response: 35856

Amount: 3

Conc: 405



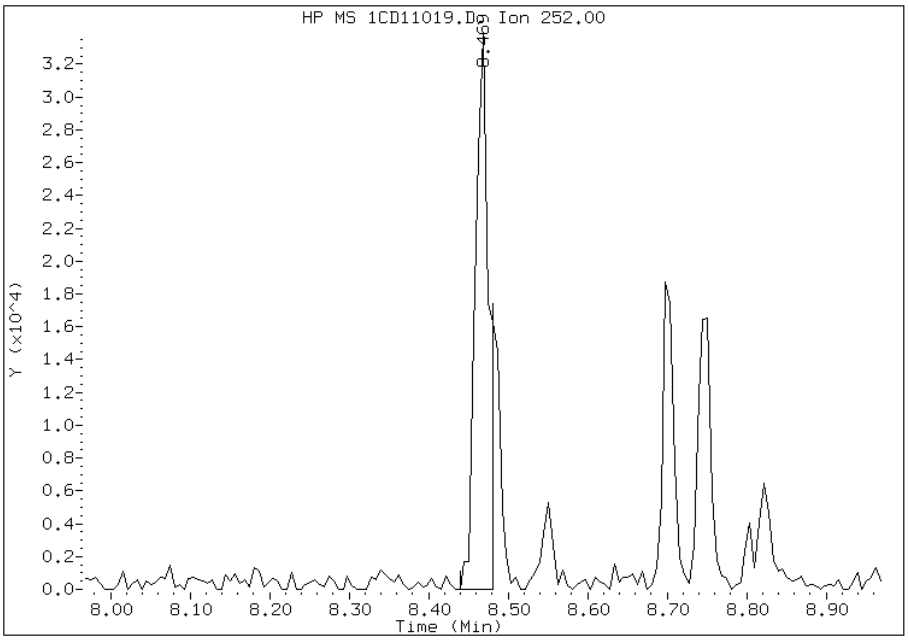
Manual Integration Results

RT: 8.47

Response: 39973

Amount: 4

Conc: 451



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11019.D
Inj. Date and Time: 11-APR-2013 17:18
Instrument ID: BSMC5973.i
Client ID: CV1236B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/12/2013

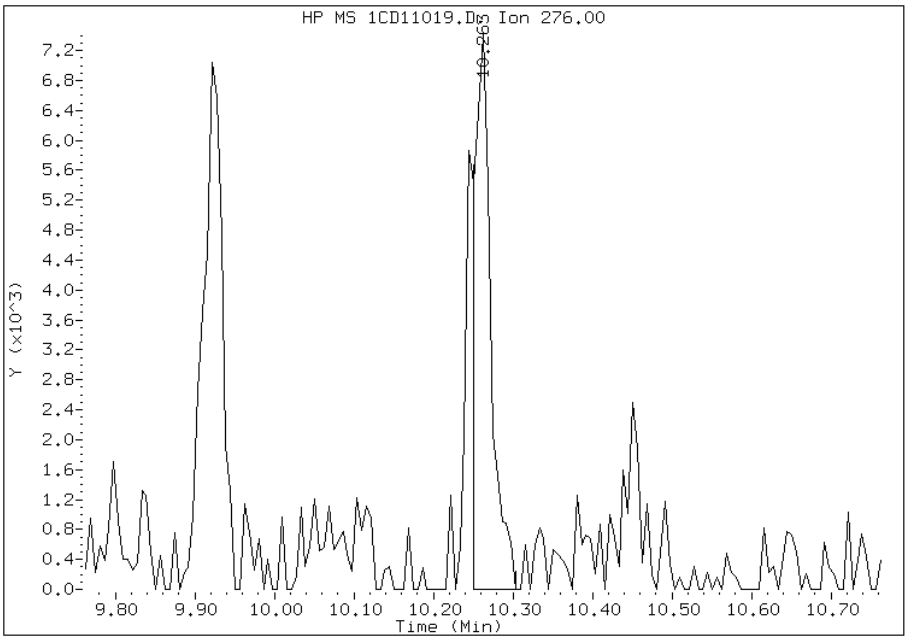
Processing Integration Results

RT: 10.26

Response: 10813

Amount: 1

Conc: 126



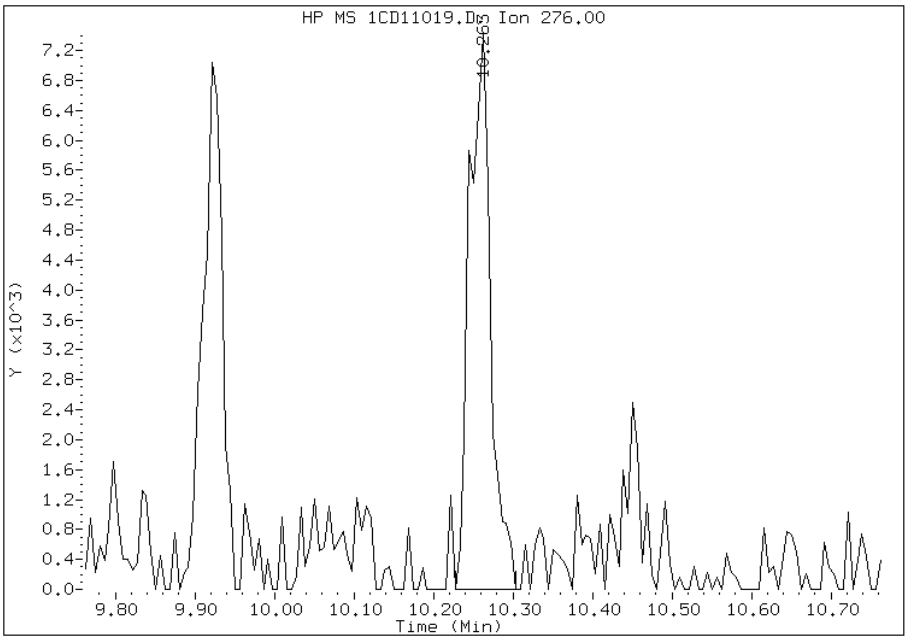
Manual Integration Results

RT: 10.26

Response: 13809

Amount: 1

Conc: 161



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11019.D
Inj. Date and Time: 11-APR-2013 17:18
Instrument ID: BSMC5973.i
Client ID: CV1236B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/12/2013

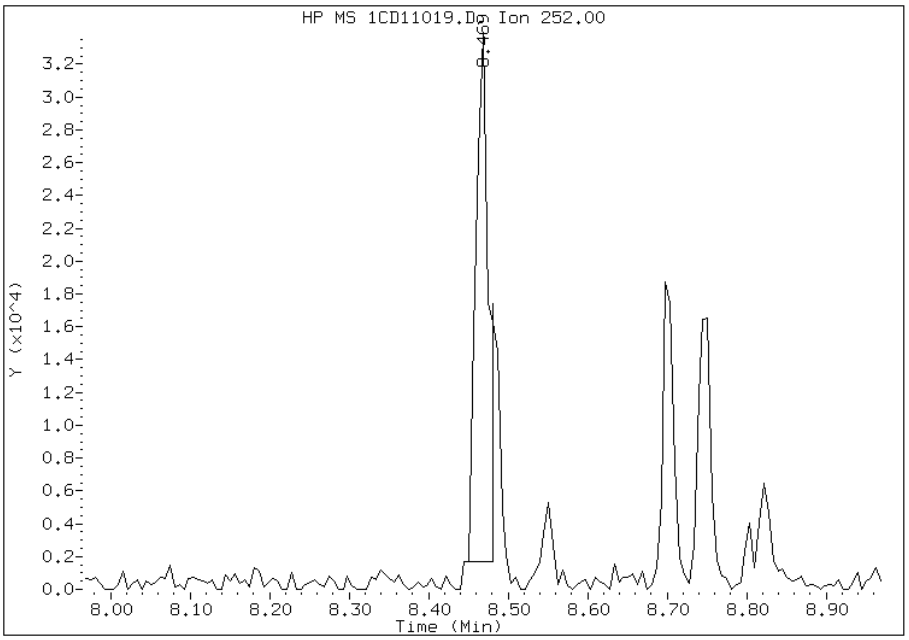
Processing Integration Results

RT: 8.47

Response: 35856

Amount: 3

Conc: 358



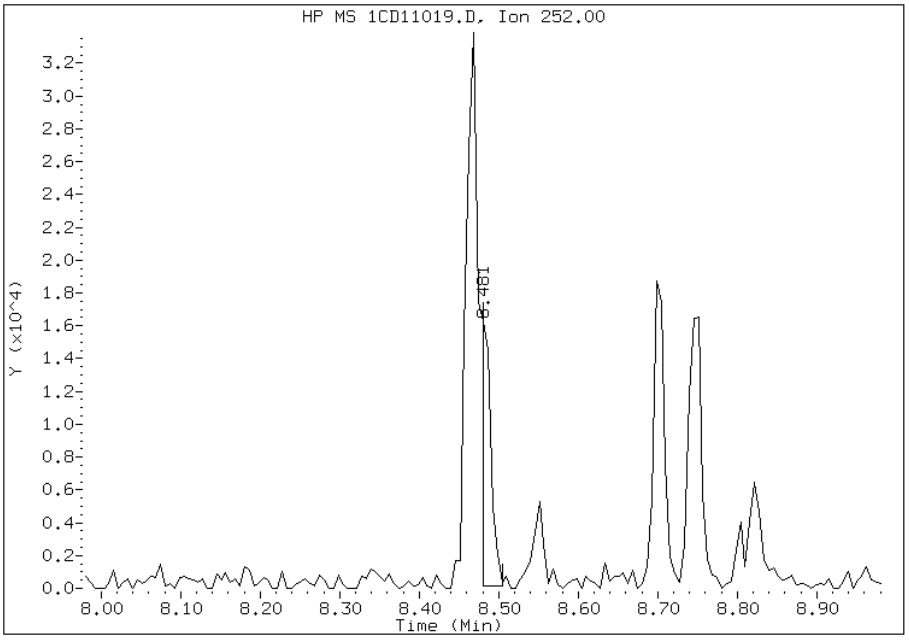
Manual Integration Results

RT: 8.48

Response: 13169

Amount: 1

Conc: 131



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11019.D
Inj. Date and Time: 11-APR-2013 17:18
Instrument ID: BSMC5973.i
Client ID: CV1236B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/12/2013

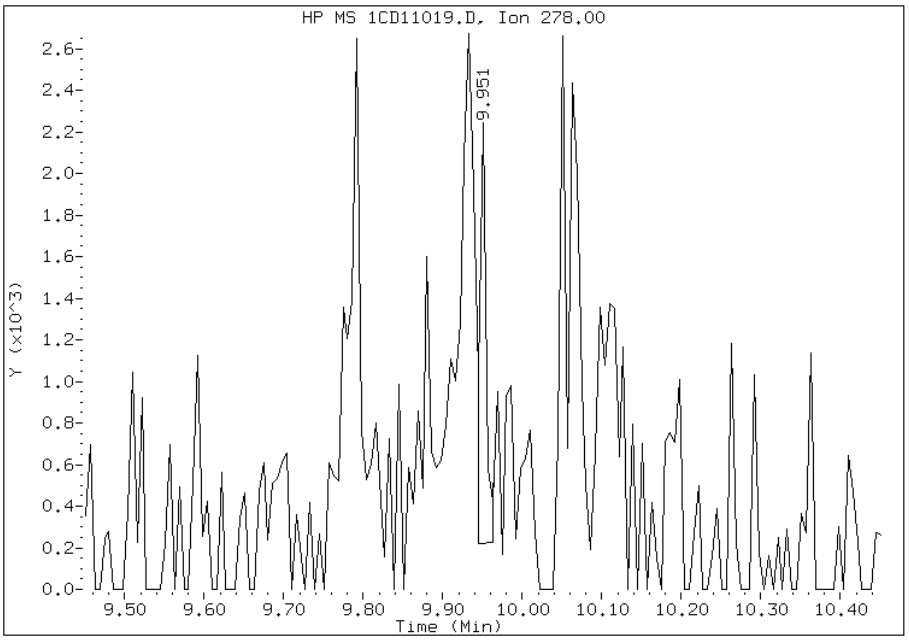
Processing Integration Results

RT: 9.95

Response: 1192

Amount: 1

Conc: 66



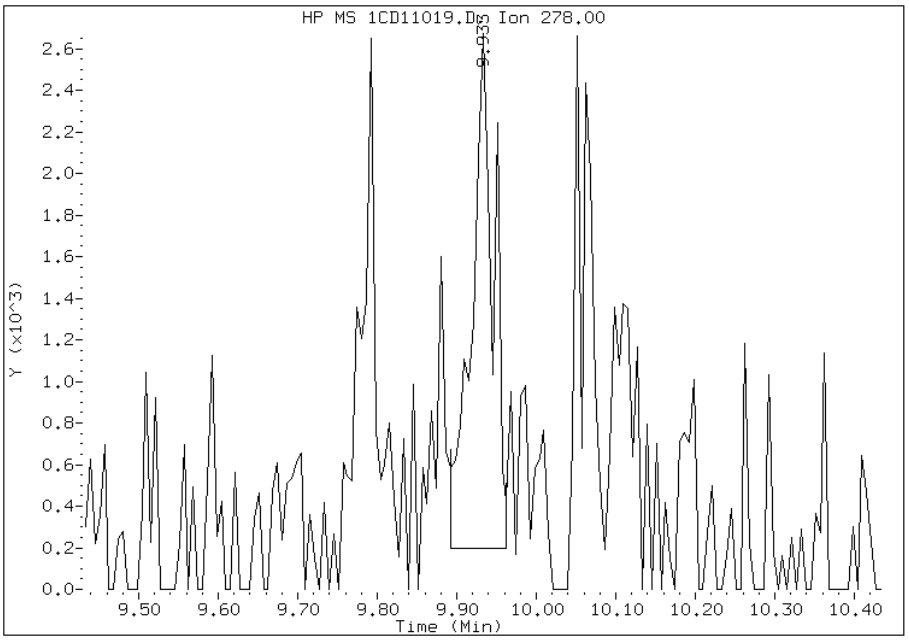
Manual Integration Results

RT: 9.93

Response: 4853

Amount: 1

Conc: 107



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11019.D
Inj. Date and Time: 11-APR-2013 17:18
Instrument ID: BSMC5973.i
Client ID: CV1236B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

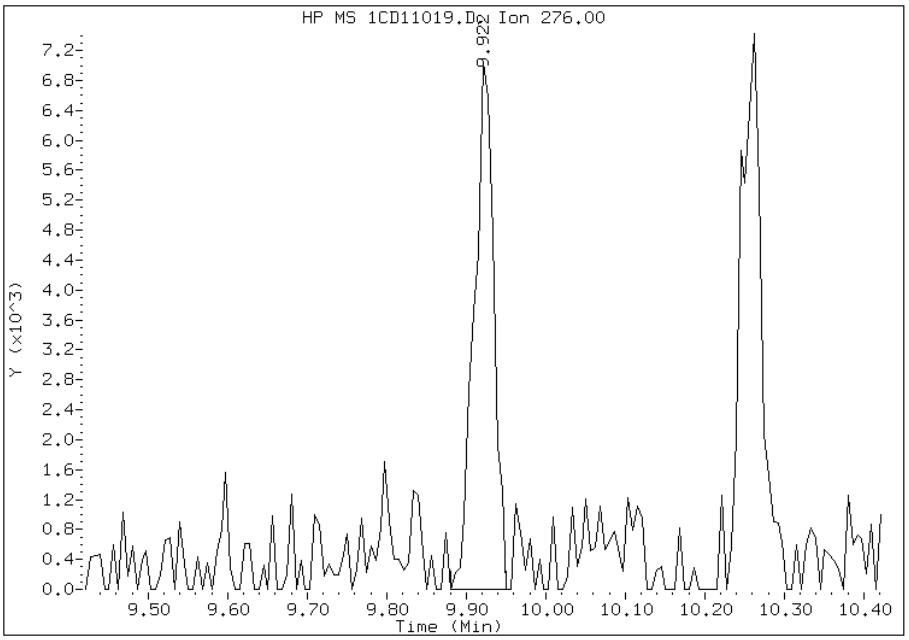
Processing Integration Results

RT: 9.92

Response: 11970

Amount: 2

Conc: 207



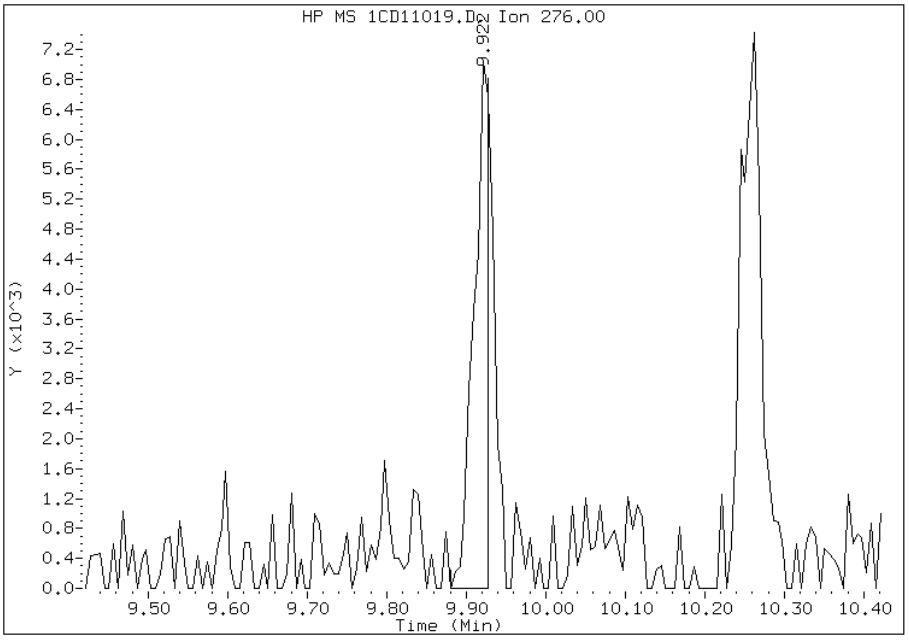
Manual Integration Results

RT: 9.92

Response: 9152

Amount: 1

Conc: 176



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:05
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88980-2 Analy Batch No.: 136370

SDG No.: 68088980-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136370/4	1CD11004.D
Level 2	IC 660-136370/5	1CD11005.D
Level 3	IC 660-136370/6	1CD11006.D
Level 4	IC 660-136370/7	1CD11007.D
Level 5	ICIS 660-136370/3	1CD11003.D
Level 6	IC 660-136370/8	1CD11008.D
Level 7	IC 660-136370/9	1CD11009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.0403 1.0845	1.1154 1.0398	1.1255	1.0833	1.0799	Ave		1.0813			0.0000	3.1		15.0			
2-Methylnaphthalene	0.4518 0.7139	0.7915 0.7215	0.6274	0.6964	0.7086	Lin	0.0068	0.7231			0.0000				0.9998		0.9900
1-Methylnaphthalene	0.8501 0.6677	0.6263 0.6578	0.7166	0.6190	0.6973	Ave		0.6907			0.0000	11.4		15.0			
Acenaphthylene	1.6419 1.8703	1.3506 1.6568	1.8874	1.7159	1.7417	Ave		1.6949			0.0000	10.6		15.0			
Acenaphthene	0.9825 1.0658	0.8838 1.0336	1.0463	1.1258	1.0124	Ave		1.0214			0.0000	7.4		15.0			
Fluorene	1.4896 1.3834	0.9662 1.2871	1.3197	1.3886	1.2644	Ave		1.2999			0.0000	12.7		15.0			
Phenanthrene	2.1565 1.1836	1.0586 1.1536	1.1958	1.1594	1.1404	Qua	0.0002	0.8500	0.0102		0.0000				0.9997		0.9900
Anthracene	1.0455 1.1188	1.2005 1.2175	1.1643	1.1719	1.2102	Ave		1.1612			0.0000	5.3		15.0			
Carbazole	1.3254 1.0648	0.9055 1.0829	1.1357	1.0658	0.9905	Ave		1.0815			0.0000	12.1		15.0			
Fluoranthene	1.1179 1.2730	1.3921 1.3602	1.2694	1.3341	1.3364	Ave		1.2976			0.0000	7.0		15.0			
Pyrene	1.2897 1.1555	0.9972 1.1333	1.1447	1.1276	1.1177	Ave		1.1380			0.0000	7.5		15.0			
Benzo[a]anthracene	1.8552 1.1480	1.4389 1.1253	1.1508	1.0977	1.1349	LinF		1.1311			0.0000				0.9998		0.9900
Chrysene	1.1739 1.1646	0.9735 1.1563	1.1877	1.0757	1.1010	Ave		1.1190			0.0000	6.8		15.0			
Benzo[b]fluoranthene	0.7438 1.0730	0.9477 1.0842	1.1078	1.0038	1.1118	Ave		1.0103			0.0000	13.0		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.: 680-88980-2 Analy Batch No.: 136370

SDG No.: 68088980-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

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	1.0957 1.1960	1.0347 1.3382	1.1426	1.1475	1.0478	Ave		1.1432			0.0000	9.0		15.0			
Benzo[a]pyrene	1.0857 1.0737	0.9221 1.1530	1.0427	1.0583	0.9747	Ave		1.0443			0.0000	7.2		15.0			
Indeno[1,2,3-cd]pyrene	1.4093 0.9346	0.8576 1.0494	0.9853	0.8955	1.0192	Lin	0.0160	1.0375			0.0000				0.9958		0.9900
Dibenz(a,h)anthracene	1.3482 0.9834	0.8948 1.0265	0.9138	0.9357	0.9949	Lin	0.0112	1.0243			0.0000				0.9993		0.9900
Benzo[g,h,i]perylene	0.7587 0.9881	1.0764 1.0165	0.9898	1.0387	0.9838	Ave		0.9789			0.0000	10.5		15.0			
o-Terphenyl	0.2006 0.5933	0.7698 0.6744	0.6516	0.6045	0.6070	Lin	0.0172	0.6624			0.0000				0.9945		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.: 680-88980-2 Analy Batch No.: 136370

SDG No.: 68088980-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136370/4	1CD11004.D
Level 2	IC 660-136370/5	1CD11005.D
Level 3	IC 660-136370/6	1CD11006.D
Level 4	IC 660-136370/7	1CD11007.D
Level 5	ICIS 660-136370/3	1CD11003.D
Level 6	IC 660-136370/8	1CD11008.D
Level 7	IC 660-136370/9	1CD11009.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	1285 178326	6408 318955	33340	66803	132678	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Lin	558 117387	4547 221322	18585	42945	87061	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1050 109784	3598 201768	21228	38170	85663	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	1337 212811	5176 370532	39114	69442	156488	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	800 121274	3387 231163	21682	45560	90964	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	1213 157410	3703 287857	27348	56195	113606	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	3451 259782	7274 472306	47149	85752	182675	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	1673 245548	8249 498469	45907	86681	193854	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2121 233698	6222 443362	44777	78836	158666	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	1789 279401	9565 556889	50052	98679	214080	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	2372 307735	8697 619923	55349	104590	229647	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	3412 305726	12549 615507	55643	101817	233188	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	2159 310162	8490 632502	57430	99776	226221	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	1499 299492	9159 576085	56470	93677	243941	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	2208 333825	10000 711099	58242	107089	229890	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.: 680-88980-2 Analy Batch No.: 136370

SDG No.: 68088980-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

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	2188 299708	8912 612644	53152	98767	213852	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin	2840 260884	8288 557635	50225	83577	223617	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Lin	2717 274497	8648 545458	46577	87325	218275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	1529 275805	10403 540151	50451	96936	215845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Lin	321 130217	5289 276100	25692	44711	97236	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
LinF = Linear ISTD forced zero
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 11-APR-2013 11:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.675	3.675	(1.000)	245713	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	179699	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	320372	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	97236	20.0000	19.0180
*	18 Chrysene-d12	240	7.645	7.645	(1.000)	410945	40.0000	
*	23 Perylene-d12	264	8.804	8.804	(1.000)	438804	40.0000	
	2 Naphthalene	128	3.686	3.686	(1.003)	132678	20.0000	19.9755
	3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	87061	20.0000	21.0586
	4 1-Methylnaphthalene	142	4.175	4.175	(1.136)	85663	20.0000	20.1908
	5 Acenaphthylene	152	4.674	4.674	(0.981)	156488	20.0000	20.5512
	7 Acenaphthene	154	4.780	4.780	(1.004)	90964	20.0000	19.3885
	9 Fluorene	166	5.104	5.104	(1.072)	113606	20.0000	19.4543
	11 Phenanthrene	178	5.721	5.721	(1.003)	182675	20.0000	17.6453
	12 Anthracene	178	5.757	5.757	(1.009)	193854	20.0000	20.8428
	13 Carbazole	167	5.863	5.863	(1.028)	158666	20.0000	18.3169
	15 Fluoranthene	202	6.557	6.557	(1.150)	214080	20.0000	20.5986
	16 Pyrene	202	6.721	6.721	(0.879)	229647	20.0000	19.6431
	17 Benzo(a)anthracene	228	7.633	7.633	(0.998)	233188	20.0000	20.0156
	19 Chrysene	228	7.663	7.663	(1.002)	226221	20.0000	19.6785
	20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	243941	20.0000	22.0102
	21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	229890	20.0000	18.3309
	22 Benzo(a)pyrene	252	8.751	8.751	(0.994)	213852	20.0000	18.6665
	24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	223617	20.0000	19.9538(M)
	25 Dibenzo(a,h)anthracene	278	9.945	9.945	(1.130)	218275	20.0000	19.6244
	26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	215845	20.0000	20.1007

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11003.D

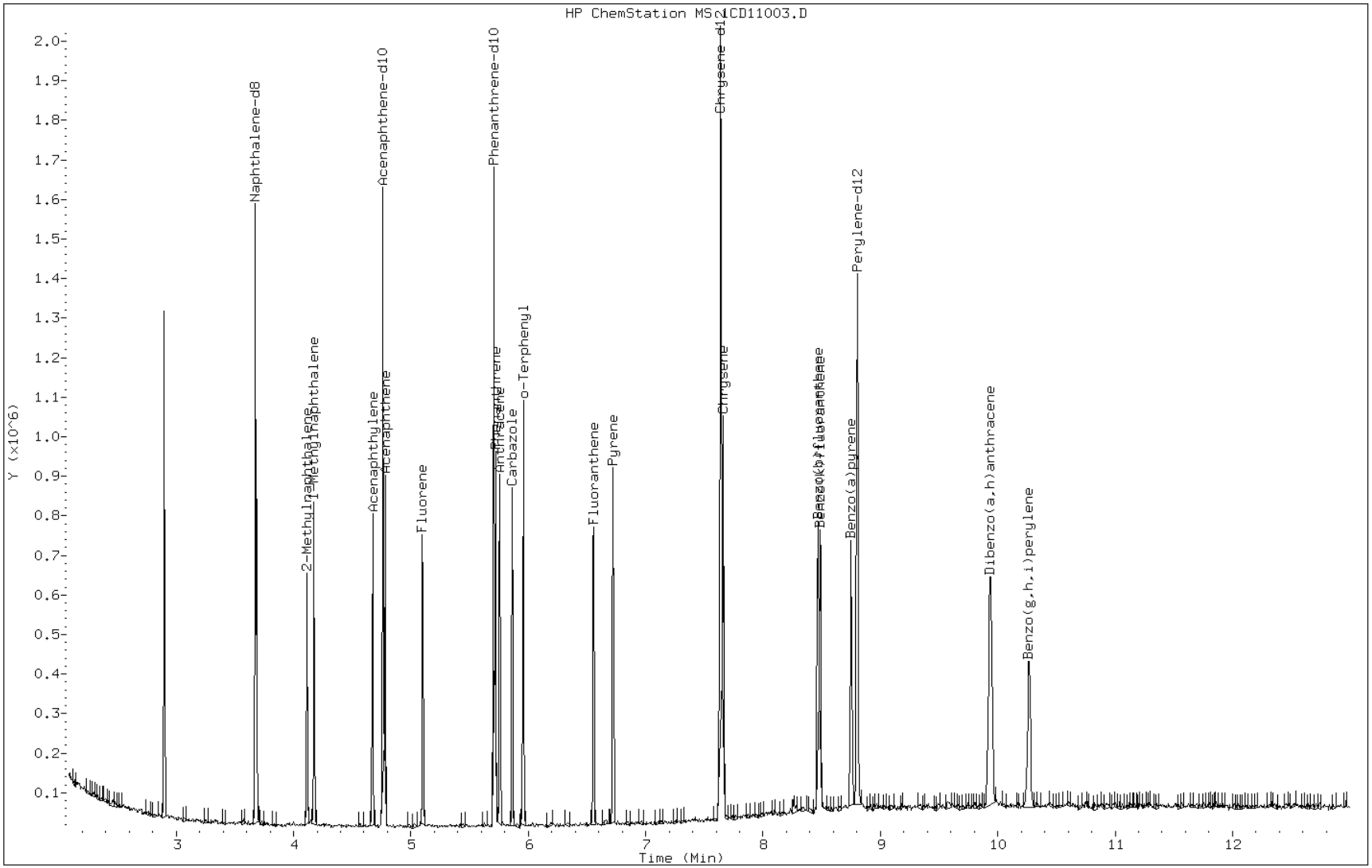
Date: 11-APR-2013 11:56

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1531401

Operator: SCC



Manual Integration Report

Data File: 1CD11003.D
Inj. Date and Time: 11-APR-2013 11:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

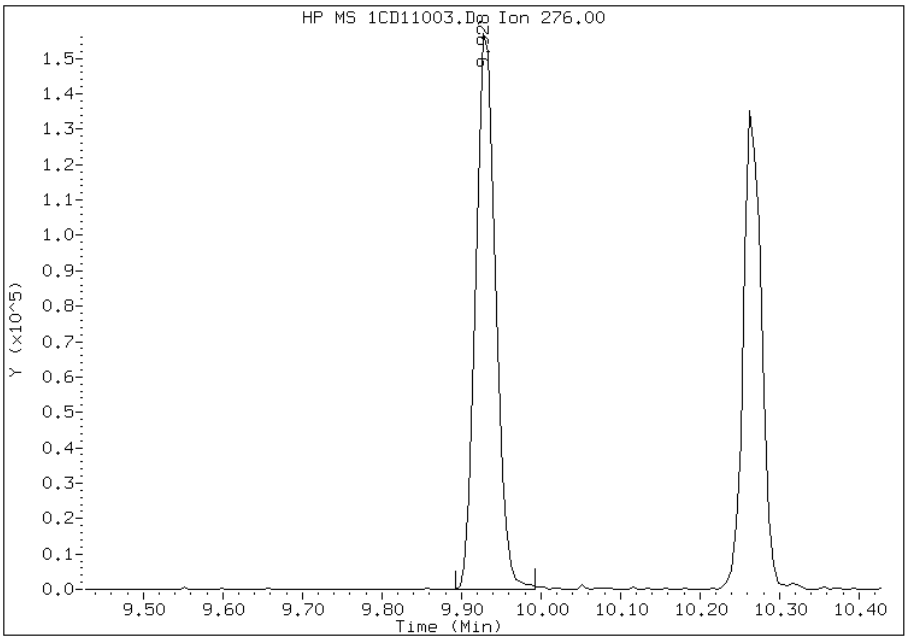
Processing Integration Results

RT: 9.93

Response: 271031

Amount: 23

Conc: 23



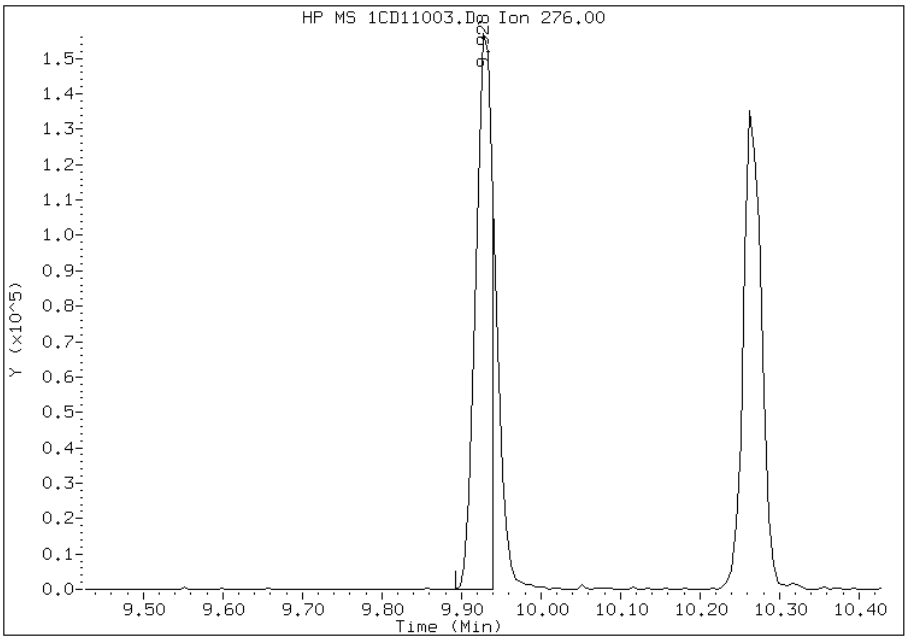
Manual Integration Results

RT: 9.93

Response: 223617

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 12:40
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11004.D
Lab Smp Id: IC-1531396
Inj Date : 11-APR-2013 12:35
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 11:56 Cal File: 1CD11003.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.674	3.674	(1.000)	247033	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	162858	40.0000	
*	10 Phenanthrene-d10	188	5.721	5.721	(1.000)	320053	40.0000	(H)
$	14 o-Terphenyl	230	5.980	5.980	(1.045)	321	0.20000	0.7502(Q)
*	18 Chrysene-d12	240	7.656	7.656	(1.000)	367836	40.0000	
*	23 Perylene-d12	264	8.827	8.827	(1.000)	403046	40.0000	
	2 Naphthalene	128	3.686	3.686	(1.003)	1285	0.20000	0.1924(Q)
	3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	558	0.20000	0.1342(Q)
	4 1-Methylnaphthalene	142	4.180	4.180	(1.138)	1050	0.20000	0.2461(Q)
	5 Acenaphthylene	152	4.680	4.680	(0.983)	1337	0.20000	0.1937
	7 Acenaphthene	154	4.786	4.786	(1.005)	800	0.20000	0.0720
	9 Fluorene	166	5.110	5.110	(1.073)	1213	0.20000	0.2291
	11 Phenanthrene	178	5.733	5.733	(1.002)	3451	0.20000	0.3336
	12 Anthracene	178	5.768	5.768	(1.008)	1673	0.20000	0.1800(H)
	13 Carbazole	167	5.880	5.880	(1.028)	2121	0.20000	0.2450
	15 Fluoranthene	202	6.562	6.562	(1.147)	1789	0.20000	0.1723
	16 Pyrene	202	6.733	6.733	(0.879)	2372	0.20000	0.2266
	17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	3412	0.20000	0.2031
	19 Chrysene	228	7.674	7.674	(1.002)	2159	0.20000	0.2098
	20 Benzo(b)fluoranthene	252	8.498	8.498	(0.963)	1499	0.20000	0.1472
	21 Benzo(k)fluoranthene	252	8.509	8.509	(0.964)	2208	0.20000	0.1916
	22 Benzo(a)pyrene	252	8.774	8.774	(0.994)	2188	0.20000	0.2079
	24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.128)	2840	0.20000	0.2759
	25 Dibenzo(a,h)anthracene	278	9.980	9.980	(1.131)	2717	0.20000	0.2659
	26 Benzo(g,h,i)perylene	276	10.286	10.286	(1.165)	1529	0.20000	0.1550(M)

QC Flag Legend

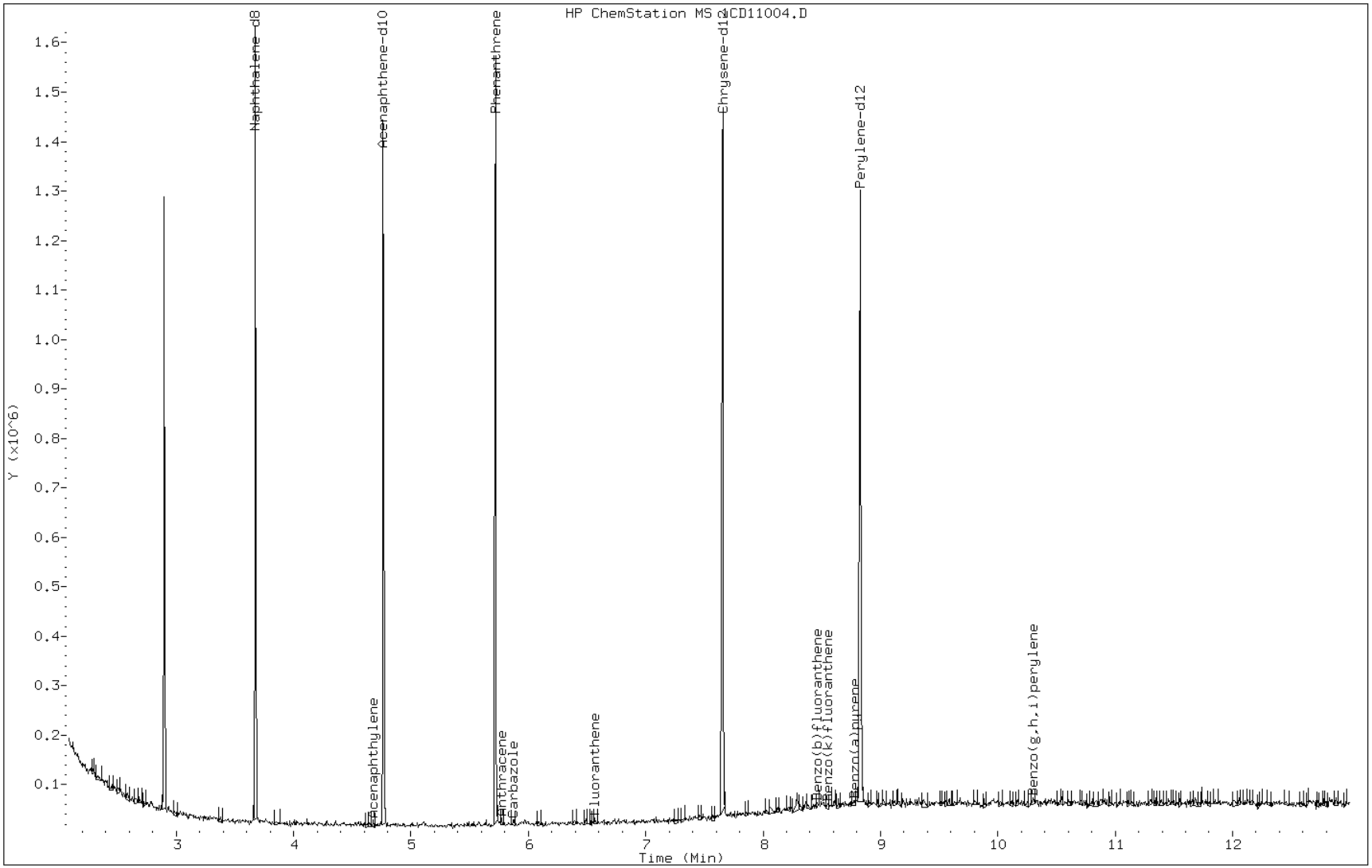
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11004.D

Date: 11-APR-2013 12:35

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1CD11004.D
Inj. Date and Time: 11-APR-2013 12:35
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/11/2013

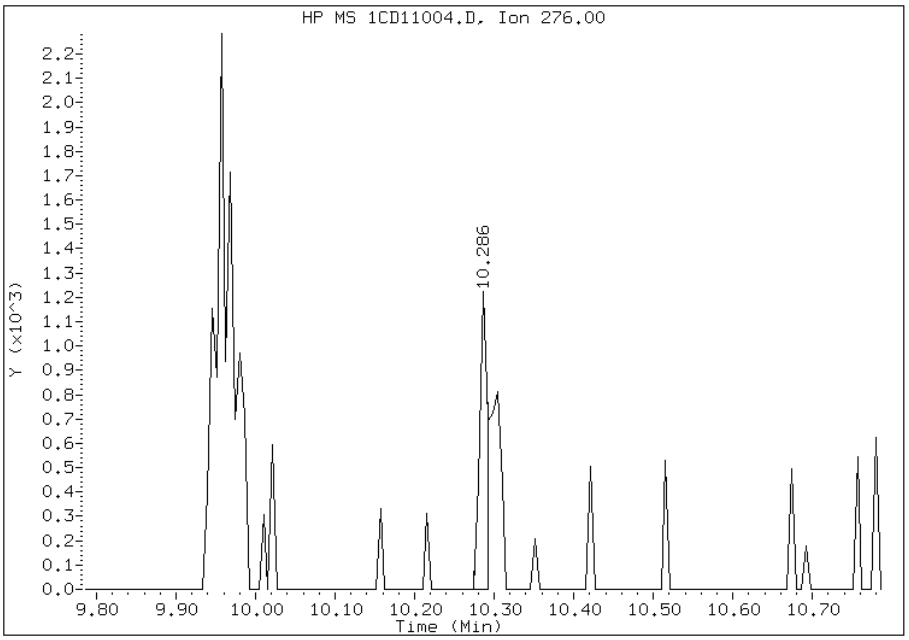
Processing Integration Results

RT: 10.29

Response: 832

Amount: 0

Conc: 0



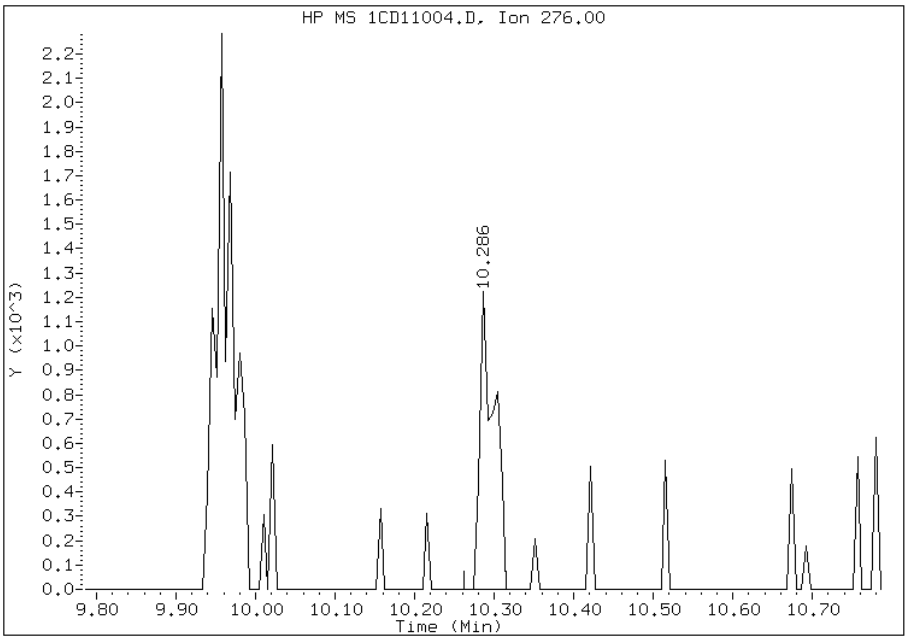
Manual Integration Results

RT: 10.29

Response: 1529

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:33
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11005.D
Lab Smp Id: IC-1531398
Inj Date : 11-APR-2013 12:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 12:35 Cal File: 1CD11004.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.674	3.674	(1.000)	229800	40.0000	
*	6 Acenaphthene-d10	164	4.762	4.762	(1.000)	153294	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	274841	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	5289	1.00000	1.8517(Q)
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	348851	40.0000	
*	23 Perylene-d12	264	8.803	8.803	(1.000)	386589	40.0000	(H)
	2 Naphthalene	128	3.686	3.686	(1.003)	6408	1.00000	1.0315(Q)
	3 2-Methylnaphthalene	142	4.110	4.110	(1.118)	4547	1.00000	1.1760(Q)
	4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	3598	1.00000	0.9067
	5 Acenaphthylene	152	4.674	4.674	(0.981)	5176	1.00000	0.7968
	7 Acenaphthene	154	4.780	4.780	(1.004)	3387	1.00000	0.7341
	9 Fluorene	166	5.104	5.104	(1.072)	3703	1.00000	0.7433(Q)
	11 Phenanthrene	178	5.721	5.721	(1.003)	7274	1.00000	0.8190(H)
	12 Anthracene	178	5.757	5.757	(1.009)	8249	1.00000	1.0338
	13 Carbazole	167	5.862	5.862	(1.028)	6222	1.00000	0.8372
	15 Fluoranthene	202	6.556	6.556	(1.150)	9565	1.00000	1.0728
	16 Pyrene	202	6.721	6.721	(0.880)	8697	1.00000	0.8763
	17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	12549	1.00000	1.1507
	19 Chrysene	228	7.656	7.656	(1.002)	8490	1.00000	0.8699
	20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	9159	1.00000	0.9380(H)
	21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	10000	1.00000	0.9050(H)
	22 Benzo(a)pyrene	252	8.750	8.750	(0.994)	8912	1.00000	0.8829(H)
	24 Indeno(1,2,3-cd)pyrene	276	9.921	9.921	(1.127)	8288	1.00000	0.8394(MH)
	25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.129)	8648	1.00000	0.8825(MH)
	26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	10403	1.00000	1.0996

QC Flag Legend

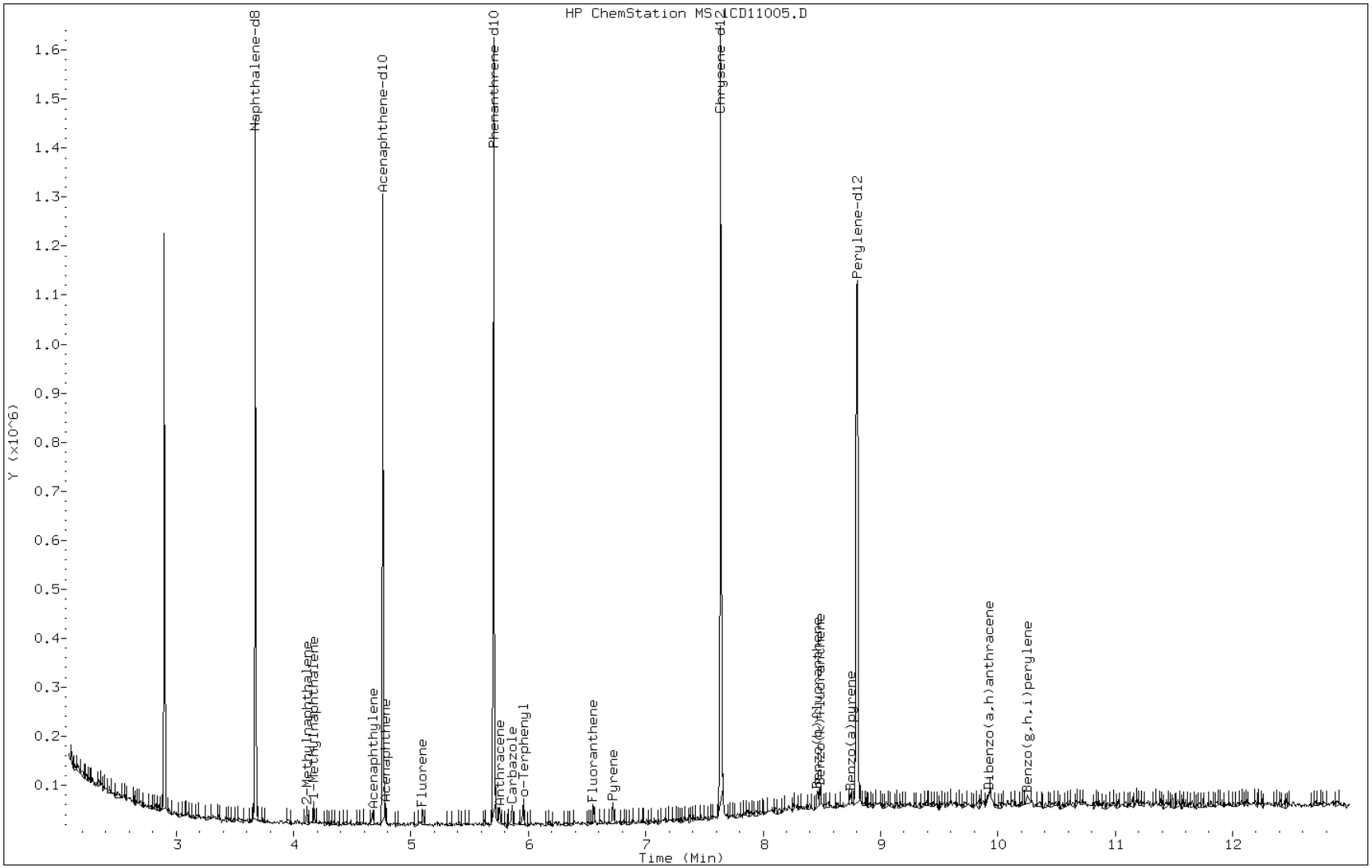
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11005.D

Date: 11-APR-2013 12:53

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1CD11005.D
Inj. Date and Time: 11-APR-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

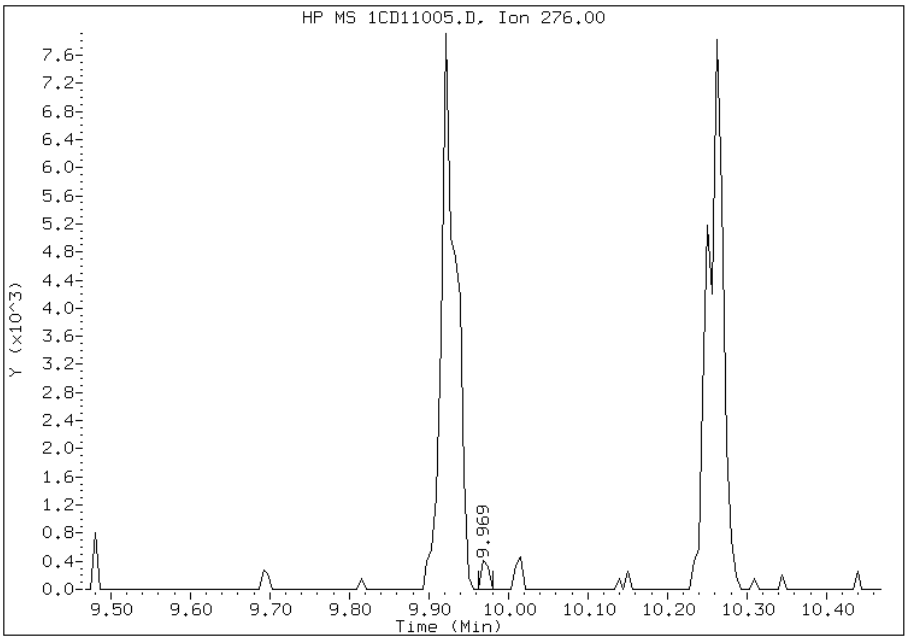
Processing Integration Results

RT: 9.97

Response: 260

Amount: 0

Conc: 0



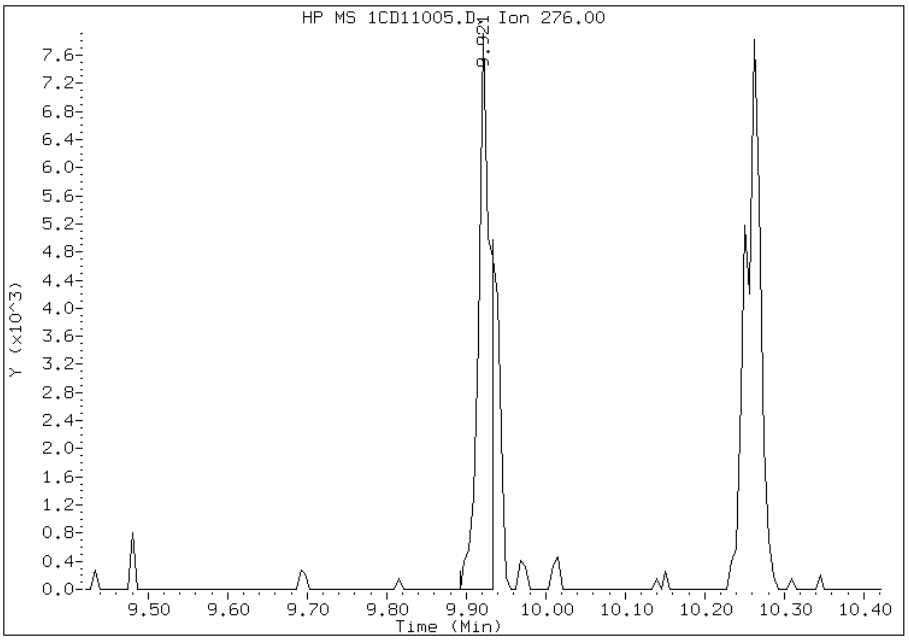
Manual Integration Results

RT: 9.92

Response: 8288

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11005.D
Inj. Date and Time: 11-APR-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/11/2013

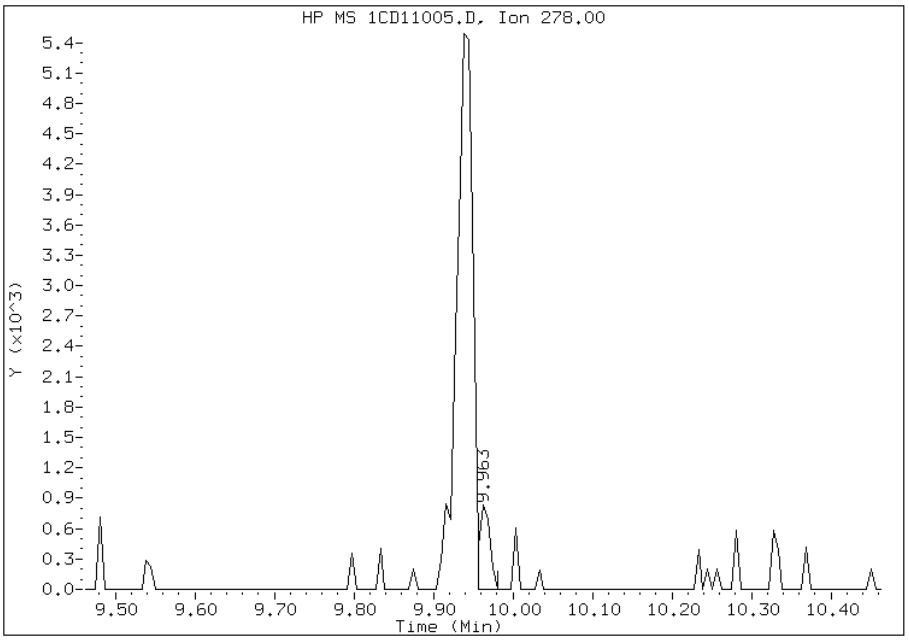
Processing Integration Results

RT: 9.96

Response: 764

Amount: 0

Conc: 0



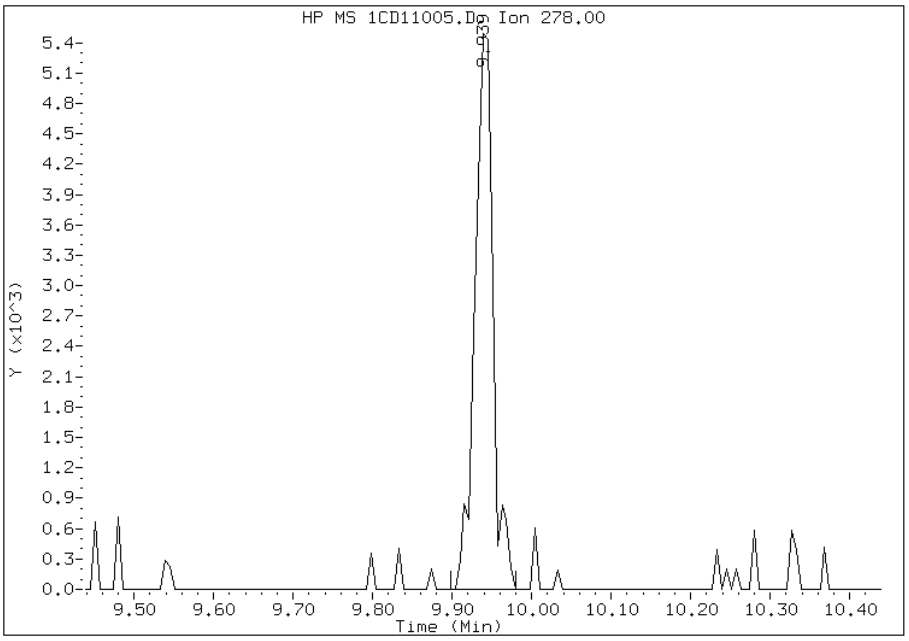
Manual Integration Results

RT: 9.94

Response: 8648

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:33
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11006.D
Lab Smp Id: IC-1531399
Inj Date : 11-APR-2013 13:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 12:53 Cal File: 1CD11005.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.675	3.675	(1.000)	236973	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	165788	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	315427	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	25692	5.00000	5.6083
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	386829	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000)	407786	40.0000	(H)
	2 Naphthalene	128	3.686	3.686	(1.003)	33340	5.00000	5.2046
	3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	18585	5.00000	4.6612
	4 1-Methylnaphthalene	142	4.175	4.175	(1.136)	21228	5.00000	5.1880
	5 Acenaphthylene	152	4.674	4.674	(0.981)	39114	5.00000	5.5677
	7 Acenaphthene	154	4.780	4.780	(1.004)	21682	5.00000	4.9222
	9 Fluorene	166	5.098	5.098	(1.070)	27348	5.00000	5.0761(Q)
	11 Phenanthrene	178	5.721	5.721	(1.003)	47149	5.00000	4.6257(H)
	12 Anthracene	178	5.757	5.757	(1.009)	45907	5.00000	5.0132
	13 Carbazole	167	5.863	5.863	(1.028)	44777	5.00000	5.2502
	15 Fluoranthene	202	6.551	6.551	(1.148)	50052	5.00000	4.8914
	16 Pyrene	202	6.721	6.721	(0.880)	55349	5.00000	5.0294
	17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	55643	5.00000	4.9797
	19 Chrysene	228	7.657	7.657	(1.002)	57430	5.00000	5.3071
	20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	56470	5.00000	5.4827(H)
	21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	58242	5.00000	4.9973(H)
	22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	53152	5.00000	4.9924(H)
	24 Indeno(1,2,3-cd)pyrene	276	9.921	9.921	(1.128)	50225	5.00000	4.8225(MH)
	25 Dibenzo(a,h)anthracene	278	9.927	9.927	(1.128)	46577	5.00000	4.5061(H)
	26 Benzo(g,h,i)perylene	276	10.251	10.251	(1.165)	50451	5.00000	5.0556(H)

QC Flag Legend

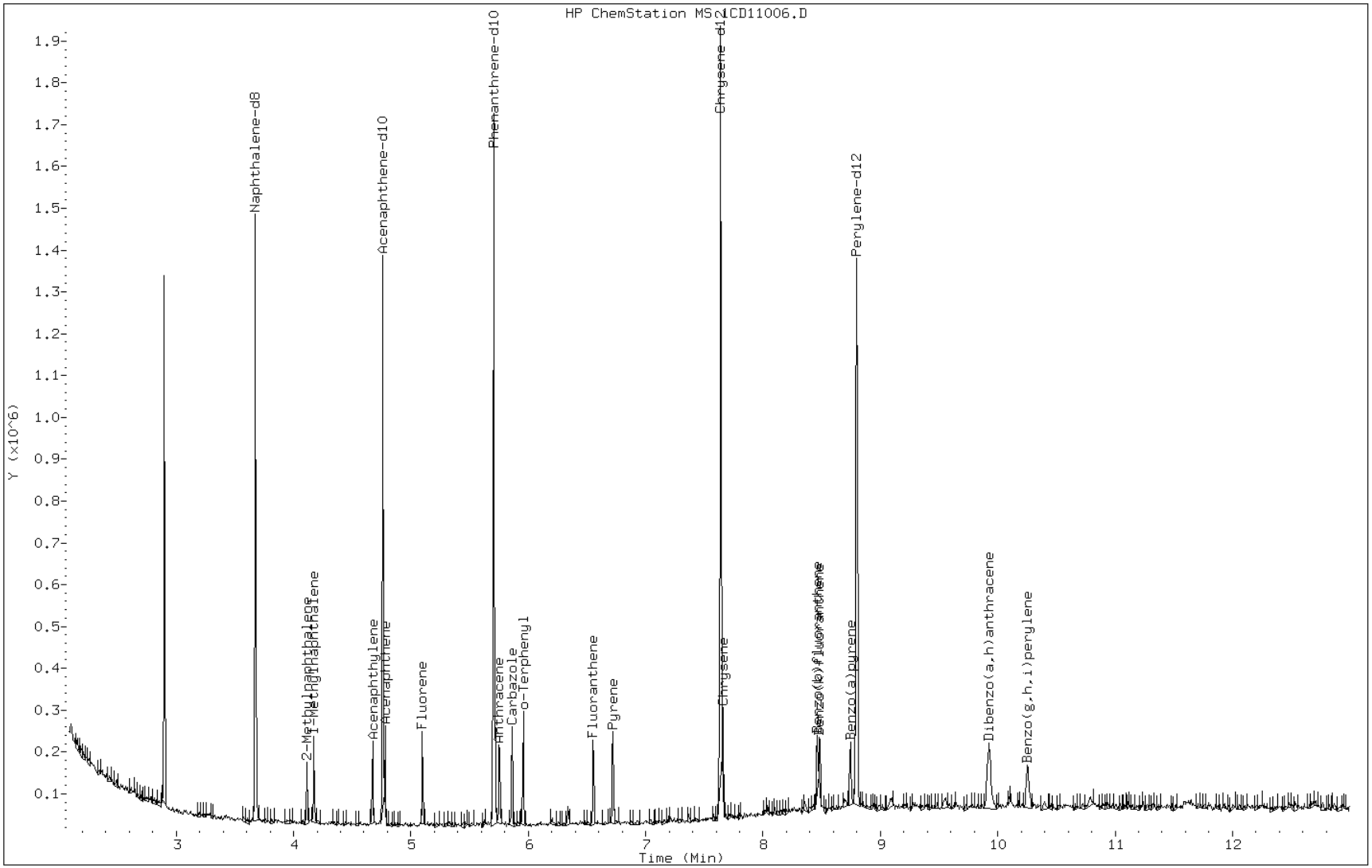
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11006.D

Date: 11-APR-2013 13:11

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1CD11006.D
Inj. Date and Time: 11-APR-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

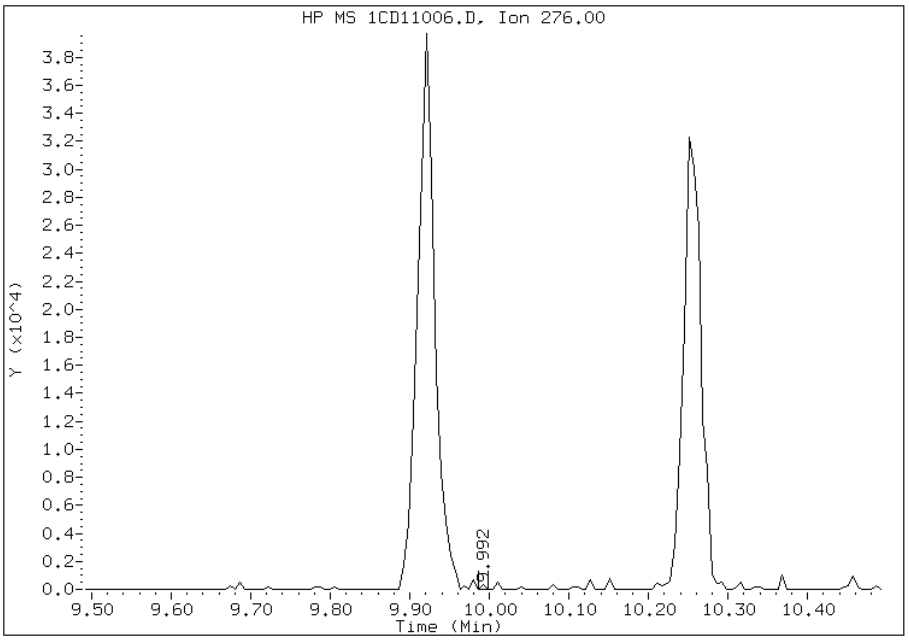
Processing Integration Results

RT: 9.99

Response: 108

Amount: 0

Conc: 0



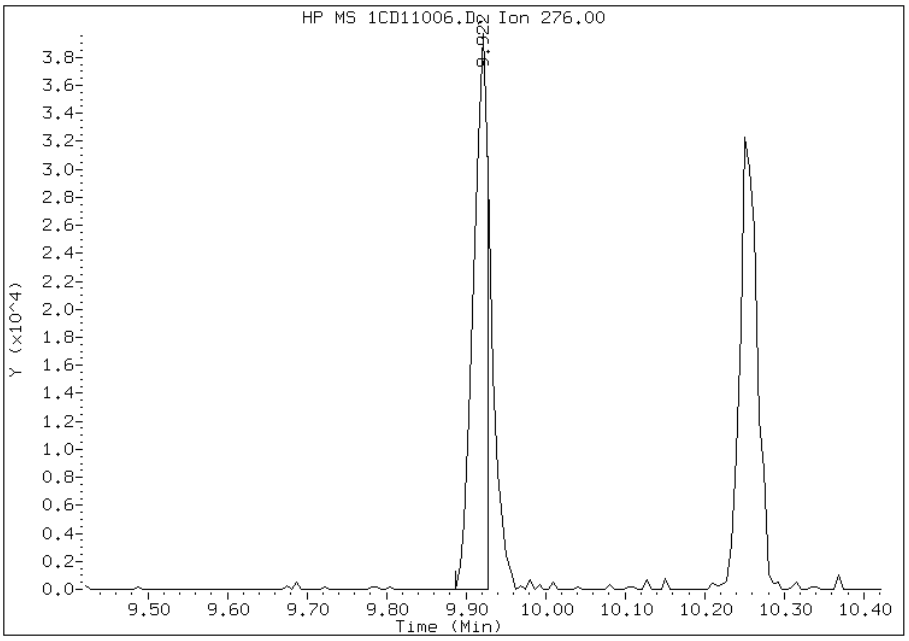
Manual Integration Results

RT: 9.92

Response: 50225

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:35
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11007.D
Lab Smp Id: IC-1531400
Inj Date : 11-APR-2013 13:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 13:11 Cal File: 1CD11006.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	246668	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	161880	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	295862	40.0000	
$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	44711	10.0000	9.8155
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	371008	40.0000	
* 23 Perylene-d12	264	8.798	8.798	(1.000)	373300	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	66803	10.0000	10.0187
3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	42945	10.0000	10.3474
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	38170	10.0000	8.9618
5 Acenaphthylene	152	4.674	4.674	(0.981)	69442	10.0000	10.1235
7 Acenaphthene	154	4.780	4.780	(1.004)	45560	10.0000	10.7277
9 Fluorene	166	5.098	5.098	(1.070)	56195	10.0000	10.6823
11 Phenanthrene	178	5.721	5.721	(1.003)	85752	10.0000	8.9693(H)
12 Anthracene	178	5.757	5.757	(1.009)	86681	10.0000	10.0918
13 Carbazole	167	5.863	5.863	(1.028)	78836	10.0000	9.8550
15 Fluoranthene	202	6.551	6.551	(1.148)	98679	10.0000	10.2813
16 Pyrene	202	6.721	6.721	(0.880)	104590	10.0000	9.9092
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	101817	10.0000	9.6151
19 Chrysene	228	7.657	7.657	(1.002)	99776	10.0000	9.6136
20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	93677	10.0000	9.9354(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	107089	10.0000	10.0374(H)
22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	98767	10.0000	10.1338(H)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	83577	10.0000	8.7663(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.130)	87325	10.0000	9.2288(H)
26 Benzo(g,h,i)perylene	276	10.256	10.256	(1.166)	96936	10.0000	10.6113(H)

QC Flag Legend

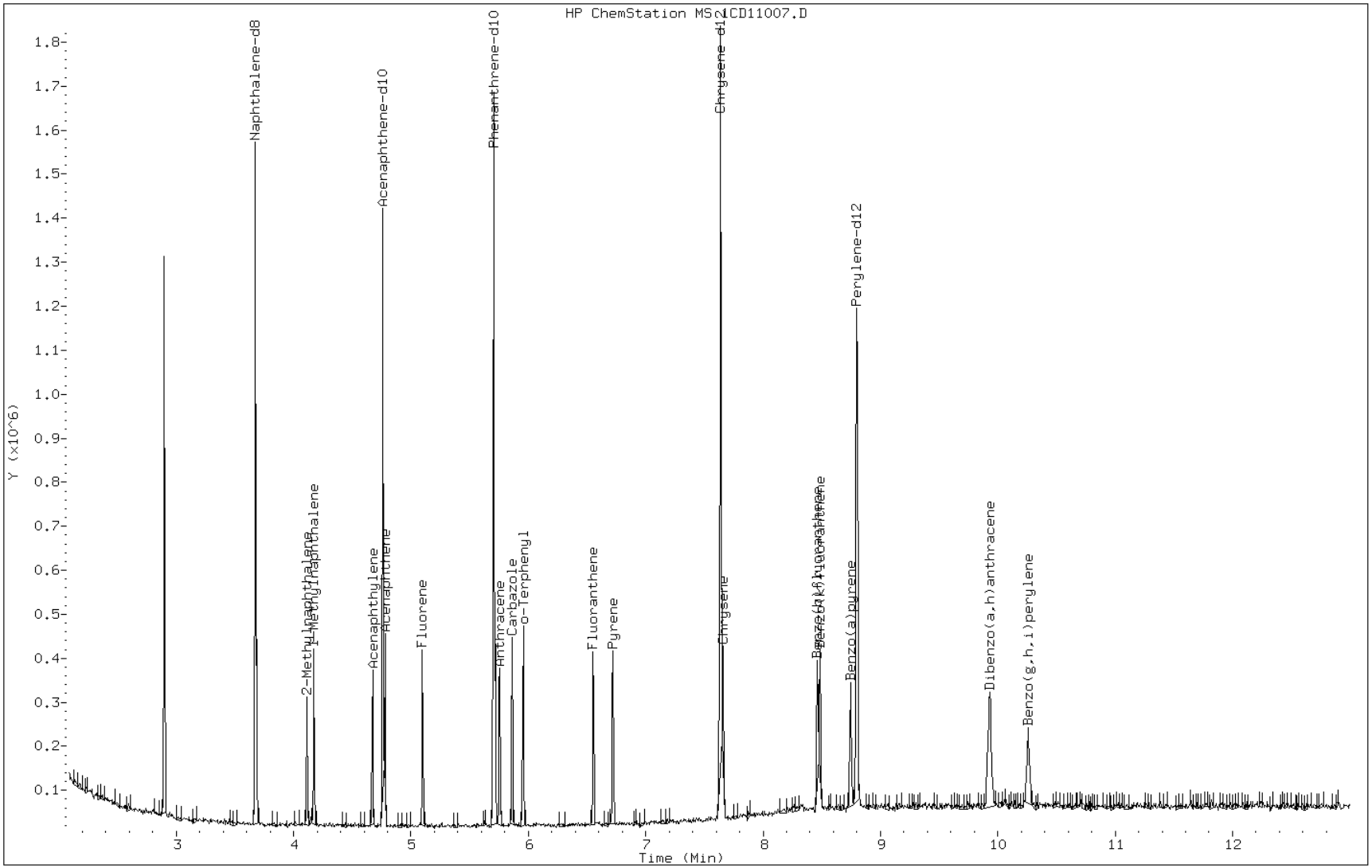
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11007.D

Date: 11-APR-2013 13:30

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531400 Operator: SCC



Manual Integration Report

Data File: 1CD11007.D
Inj. Date and Time: 11-APR-2013 13:30
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

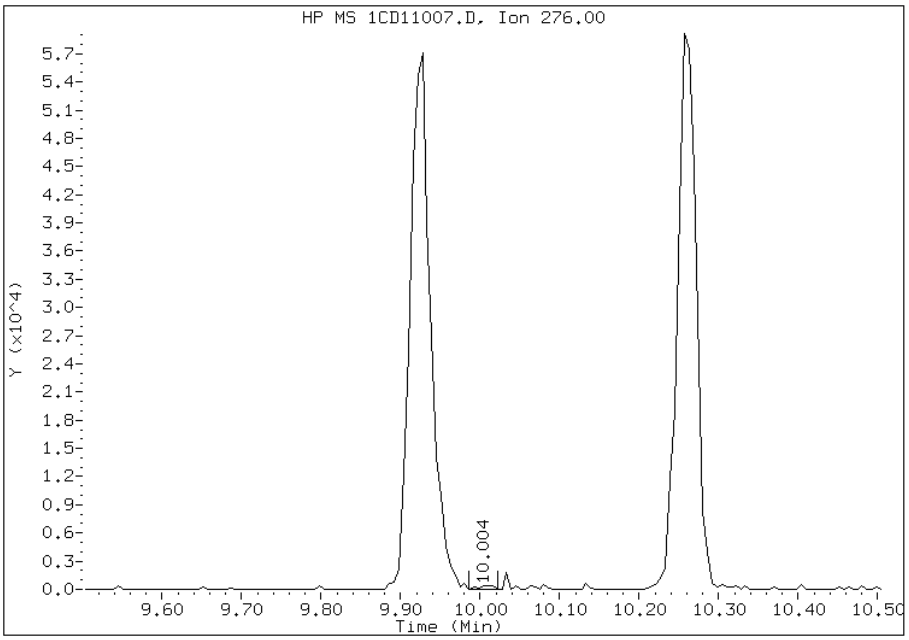
Processing Integration Results

RT: 10.00

Response: 600

Amount: 0

Conc: 0



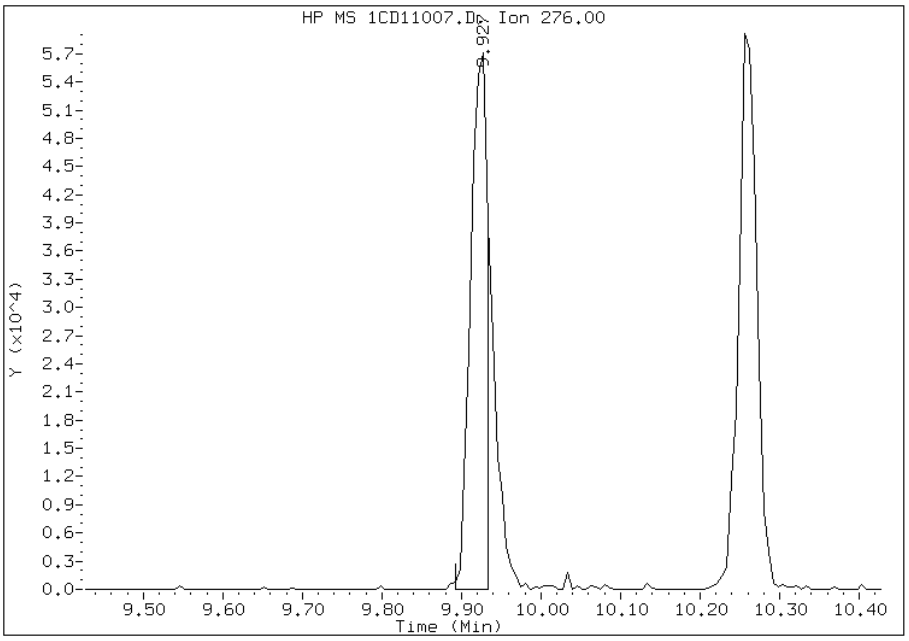
Manual Integration Results

RT: 9.93

Response: 83577

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:36
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11008.D
Lab Smp Id: IC-1531402
Inj Date : 11-APR-2013 13:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 13:30 Cal File: 1CD11007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	219235	40.0000	
* 6 Acenaphthene-d10	164	4.762	4.762	(1.000)	151711	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	292639	40.0000	
$ 14 o-Terphenyl	230	5.956	5.956	(1.044)	130217	30.0000	27.5608
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	355096	40.0000	
* 23 Perylene-d12	264	8.797	8.797	(1.000)	372168	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	178326	30.0000	30.0907
3 2-Methylnaphthalene	142	4.115	4.115	(1.120)	117387	30.0000	31.8232
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	109784	30.0000	29.0014
5 Acenaphthylene	152	4.674	4.674	(0.981)	212811	30.0000	33.1039
7 Acenaphthene	154	4.780	4.780	(1.004)	121274	30.0000	30.6855
9 Fluorene	166	5.098	5.098	(1.070)	157410	30.0000	31.9283
11 Phenanthrene	178	5.721	5.721	(1.003)	259782	30.0000	27.4715(H)
12 Anthracene	178	5.756	5.756	(1.009)	245548	30.0000	28.9028
13 Carbazole	167	5.862	5.862	(1.028)	233698	30.0000	29.5356
15 Fluoranthene	202	6.556	6.556	(1.150)	279401	30.0000	29.4314
16 Pyrene	202	6.721	6.721	(0.880)	307735	30.0000	30.4624
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	305726	30.0000	30.4344
19 Chrysene	228	7.662	7.662	(1.003)	310162	30.0000	31.2239
20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	299492	30.0000	31.8608(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	333825	30.0000	31.3844(H)
22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	299708	30.0000	30.8447(H)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	260884	30.0000	27.4473(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.130)	274497	30.0000	29.0980(H)
26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	275805	30.0000	30.2834(H)

QC Flag Legend

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

Data File: 1CD11008.D

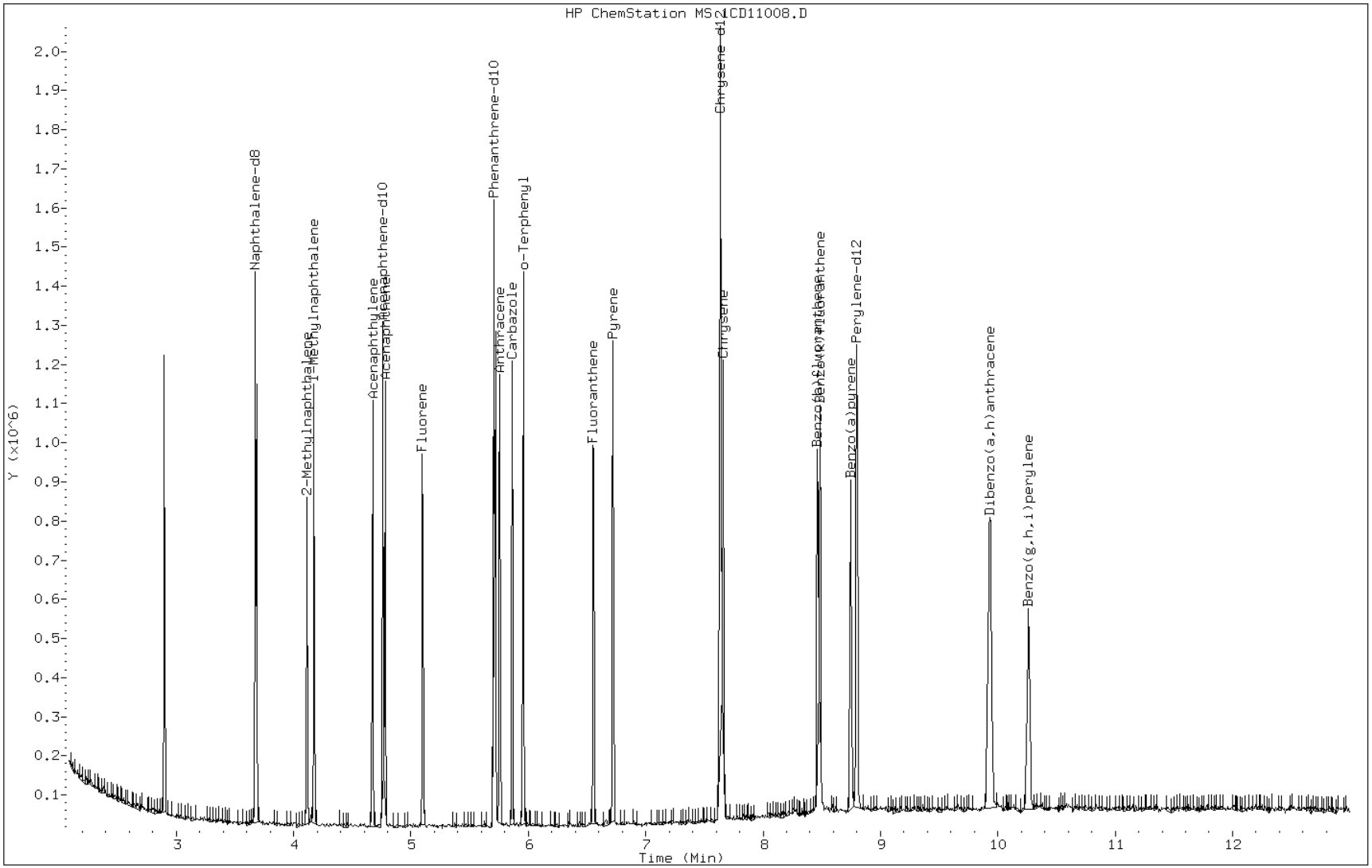
Date: 11-APR-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531402

Operator: SCC



Manual Integration Report

Data File: 1CD11008.D
Inj. Date and Time: 11-APR-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

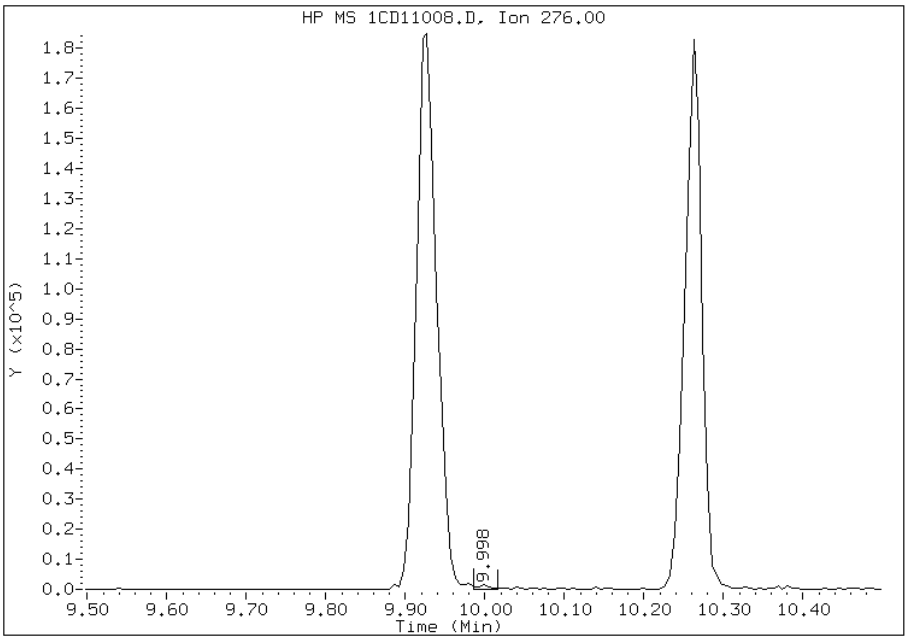
Processing Integration Results

RT: 10.00

Response: 1705

Amount: 0

Conc: 0



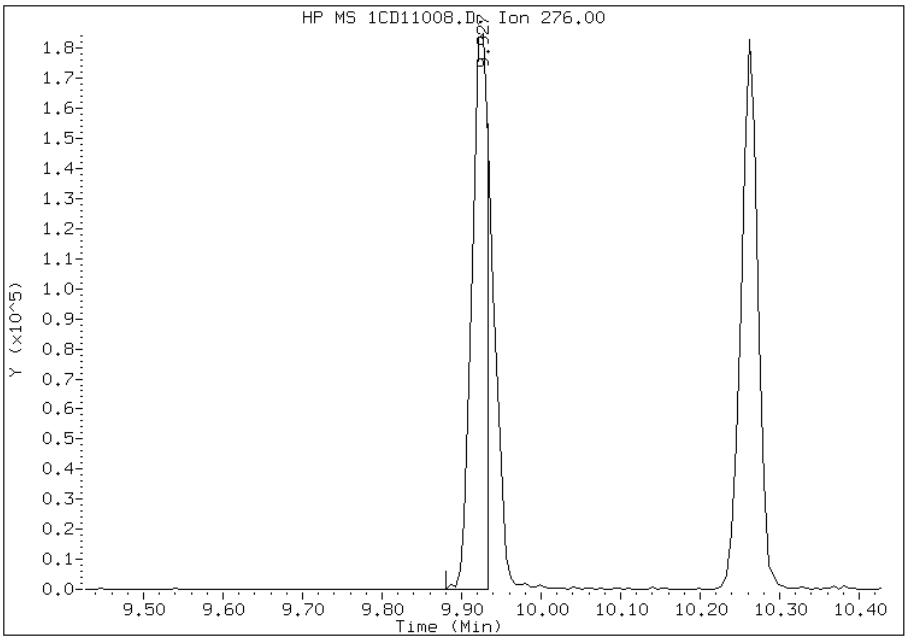
Manual Integration Results

RT: 9.93

Response: 260884

Amount: 27

Conc: 27



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:36
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11009.D
Lab Smp Id: IC-1531403
Inj Date : 11-APR-2013 14:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 13:48 Cal File: 1CD11008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	245399	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	178913	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	327530	40.0000	
$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	276100	50.0000	51.5953(A)
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	437594	40.0000	
* 23 Perylene-d12	264	8.798	8.798	(1.000)	425092	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	318955	50.0000	48.0823
3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	221322	50.0000	53.6026(A)
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	201768	50.0000	47.6178
5 Acenaphthylene	152	4.674	4.674	(0.981)	370532	50.0000	48.8750
7 Acenaphthene	154	4.780	4.780	(1.004)	231163	50.0000	49.6697
9 Fluorene	166	5.104	5.104	(1.072)	287857	50.0000	49.5103
11 Phenanthrene	178	5.721	5.721	(1.003)	472306	50.0000	44.6250(H)
12 Anthracene	178	5.757	5.757	(1.009)	498469	50.0000	52.4232(A)
13 Carbazole	167	5.863	5.863	(1.028)	443362	50.0000	50.0646(A)
15 Fluoranthene	202	6.557	6.557	(1.150)	556889	50.0000	52.4123(A)
16 Pyrene	202	6.721	6.721	(0.880)	619923	50.0000	49.7966
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	615507	50.0000	49.8010
19 Chrysene	228	7.662	7.662	(1.003)	632502	50.0000	51.6696(A)
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.963)	576085	50.0000	53.6554(AH)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	711099	50.0000	58.5305(AH)
22 Benzo(a)pyrene	252	8.751	8.751	(0.995)	612644	50.0000	55.2010(AH)
24 Indeno(1,2,3-cd)pyrene	276	9.933	9.933	(1.129)	557635	50.0000	51.3640(AMH)
25 Dibenzo(a,h)anthracene	278	9.945	9.945	(1.130)	545458	50.0000	50.6224(AH)
26 Benzo(g,h,i)perylene	276	10.268	10.268	(1.167)	540151	50.0000	51.9247(AH)

QC Flag Legend

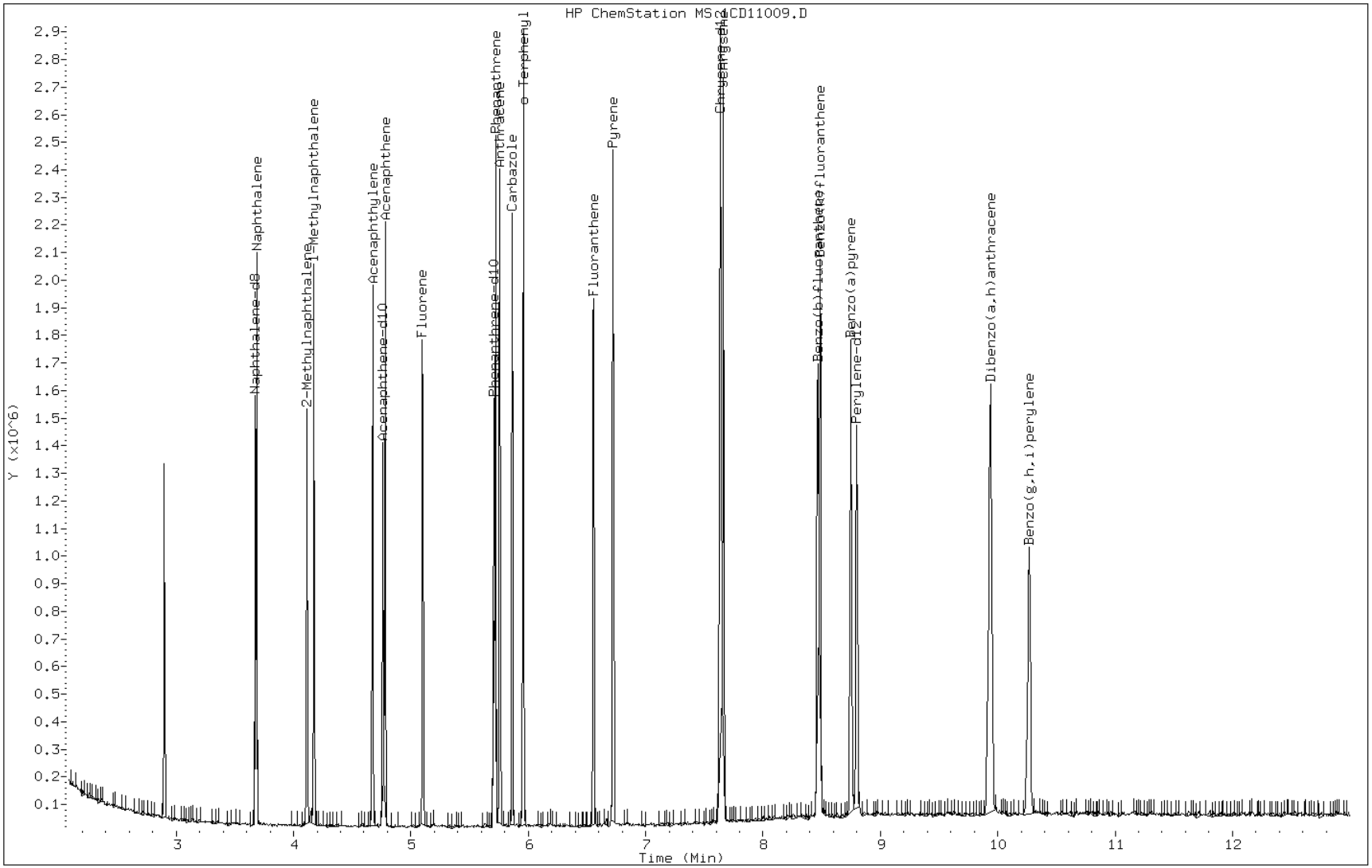
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11009.D

Date: 11-APR-2013 14:06

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1CD11009.D
Inj. Date and Time: 11-APR-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

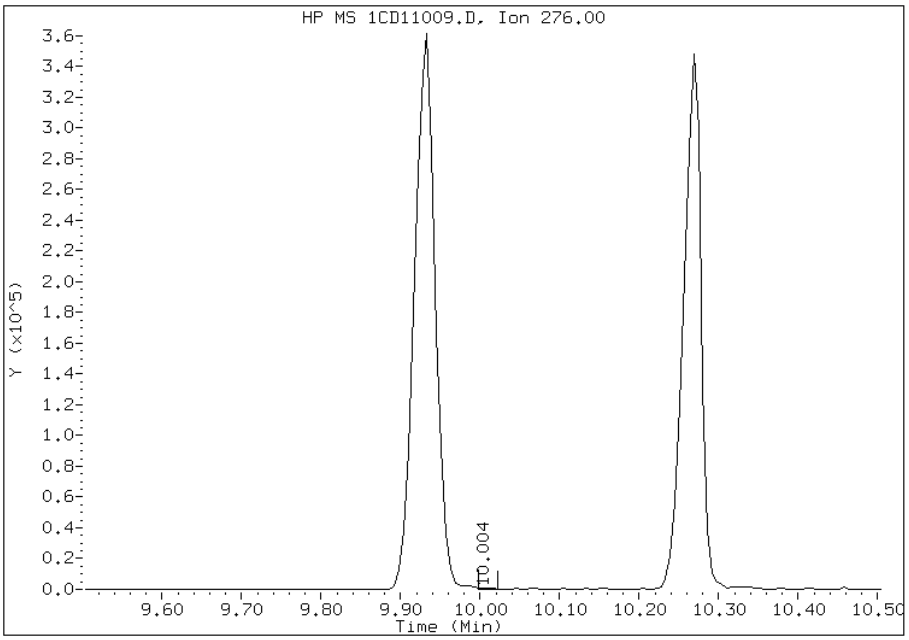
Processing Integration Results

RT: 10.00

Response: 955

Amount: 0

Conc: 0



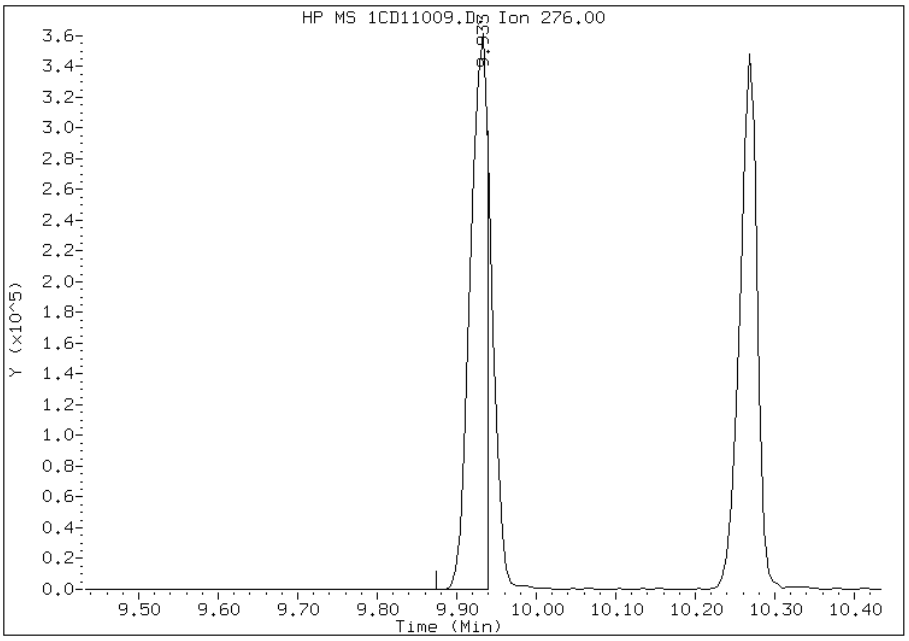
Manual Integration Results

RT: 9.93

Response: 557635

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:37
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Lab Sample ID: ICV 660-136370/10 Calibration Date: 04/11/2013 14:25

Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/11/2013 14:06

Lab File ID: 1CD11010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	0.9667	0.0000	17900	20000	-10.6	35.0
2-Methylnaphthalene	Lin	0.6730	0.7057	0.0000	19800	20000	-1.1	35.0
1-Methylnaphthalene	Ave	0.6907	0.6750	0.0000	19500	20000	-2.3	35.0
Acenaphthylene	Ave	1.695	1.600	0.0000	18900	20000	-5.6	35.0
Acenaphthene	Ave	1.021	0.9034	0.0000	17700	20000	-11.6	35.0
Fluorene	Ave	1.300	1.293	0.0000	19900	20000	-0.6	35.0
Phenanthrene	Qua	1.293	1.058	0.0000	18100	20000	-9.4	35.0
Anthracene	Ave	1.161	1.108	0.0000	19100	20000	-4.6	35.0
Carbazole	Ave	1.082	1.002	0.0000	18500	20000	-7.3	35.0
Fluoranthene	Ave	1.298	1.281	0.0000	19700	20000	-1.3	35.0
Pyrene	Ave	1.138	0.9796	0.0000	17200	20000	-13.9	35.0
Benzo[a]anthracene	LinF	1.279	1.089	0.0000	19300	20000	-3.7	35.0
Chrysene	Ave	1.119	0.9569	0.0000	17100	20000	-14.5	35.0
Benzo[b]fluoranthene	Ave	1.010	0.9917	0.0000	19600	20000	-1.8	35.0
Benzo[k]fluoranthene	Ave	1.143	1.000	0.0000	17500	20000	-12.5	35.0
Benzo[a]pyrene	Ave	1.044	0.8988	0.0000	17200	20000	-13.9	35.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.8637	0.0000	17300	20000	-13.6	35.0
Dibenz(a,h)anthracene	Lin	1.014	0.9353	0.0000	18700	20000	-6.5	35.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9212	0.0000	18800	20000	-5.9	35.0
o-Terphenyl	Lin	0.5859	0.5690	0.0000	17900	20000	-10.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11010.D
Lab Smp Id: ICV-1448440
Inj Date : 11-APR-2013 14:25
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	3.674	3.675	(1.000)	273342	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	204687	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	380421	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	108232	17.8704	17.8703
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	501991	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000)	491170	40.0000	
	2 Naphthalene	128	3.686	3.687	(1.003)	132124	17.8815	17.8815
	3 2-Methylnaphthalene	142	4.116	4.115	(1.120)	96442	19.7889	19.7889
	4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	92254	19.5465	19.5464
	5 Acenaphthylene	152	4.674	4.675	(0.981)	163781	18.8832	18.8832
	7 Acenaphthene	154	4.780	4.781	(1.004)	92455	17.6882	17.6882
	9 Fluorene	166	5.098	5.104	(1.070)	132282	19.8871	19.8871
	11 Phenanthrene	178	5.721	5.722	(1.003)	201336	18.1160	18.1159
	12 Anthracene	178	5.757	5.757	(1.009)	210753	19.0830	19.0829
	13 Carbazole	167	5.863	5.863	(1.028)	190681	18.5382	18.5381
	15 Fluoranthene	202	6.551	6.557	(1.148)	243606	19.7397	19.7396
	16 Pyrene	202	6.721	6.722	(0.880)	245865	17.2161	17.2160

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	273405	19.2602	19.2602
19 Chrysene	228	7.662	7.663	(1.003)	240185	17.1039	17.1038
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	243541	19.6314	19.6313
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	245569	17.4935	17.4935
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	220738	17.2134	17.2134
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.128)	212104	17.2880	17.2879(M)
25 Dibenzo(a,h)anthracene	278	9.939	9.945	(1.130)	229693	18.7094	18.7094
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	226235	18.8222	18.8221

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11010.D

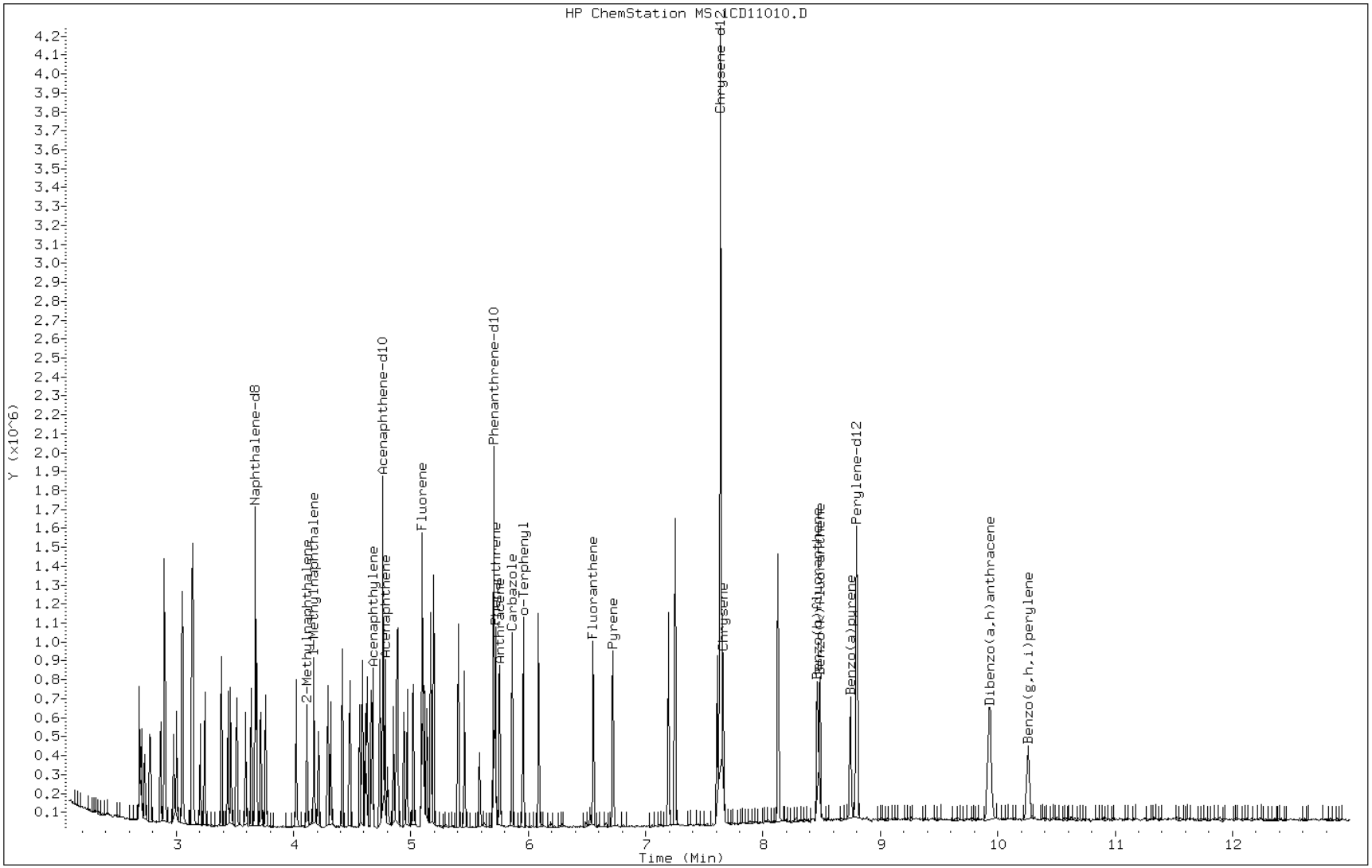
Date: 11-APR-2013 14:25

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CD11010.D
Inj. Date and Time: 11-APR-2013 14:25
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

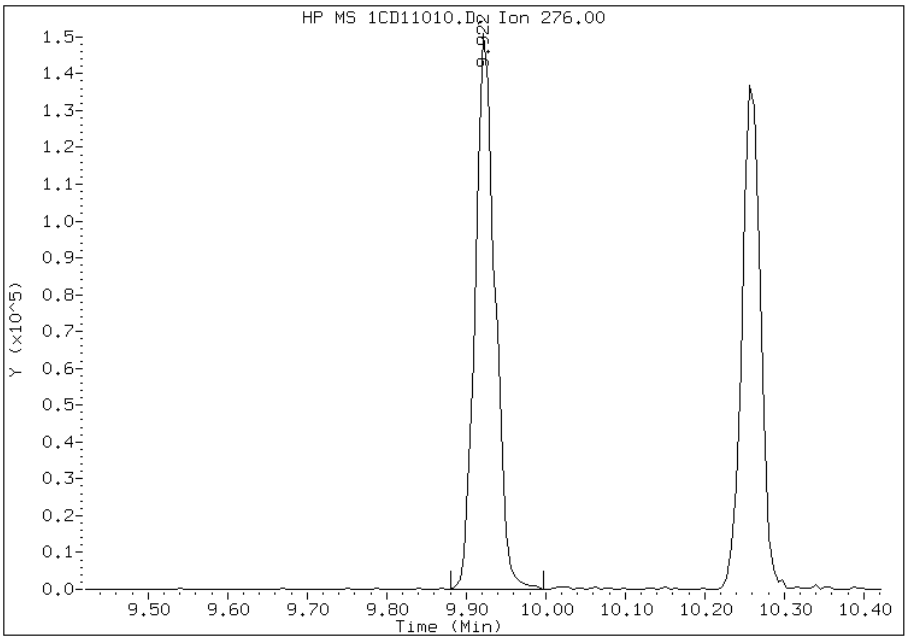
Processing Integration Results

RT: 9.92

Response: 260276

Amount: 21

Conc: 21



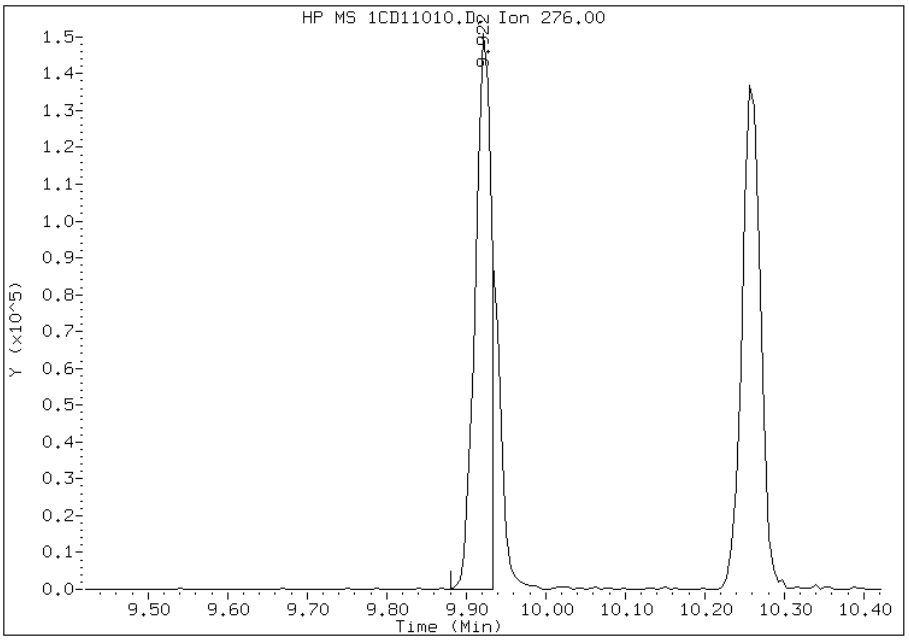
Manual Integration Results

RT: 9.92

Response: 212104

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:46
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 11-APR-2013 11:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

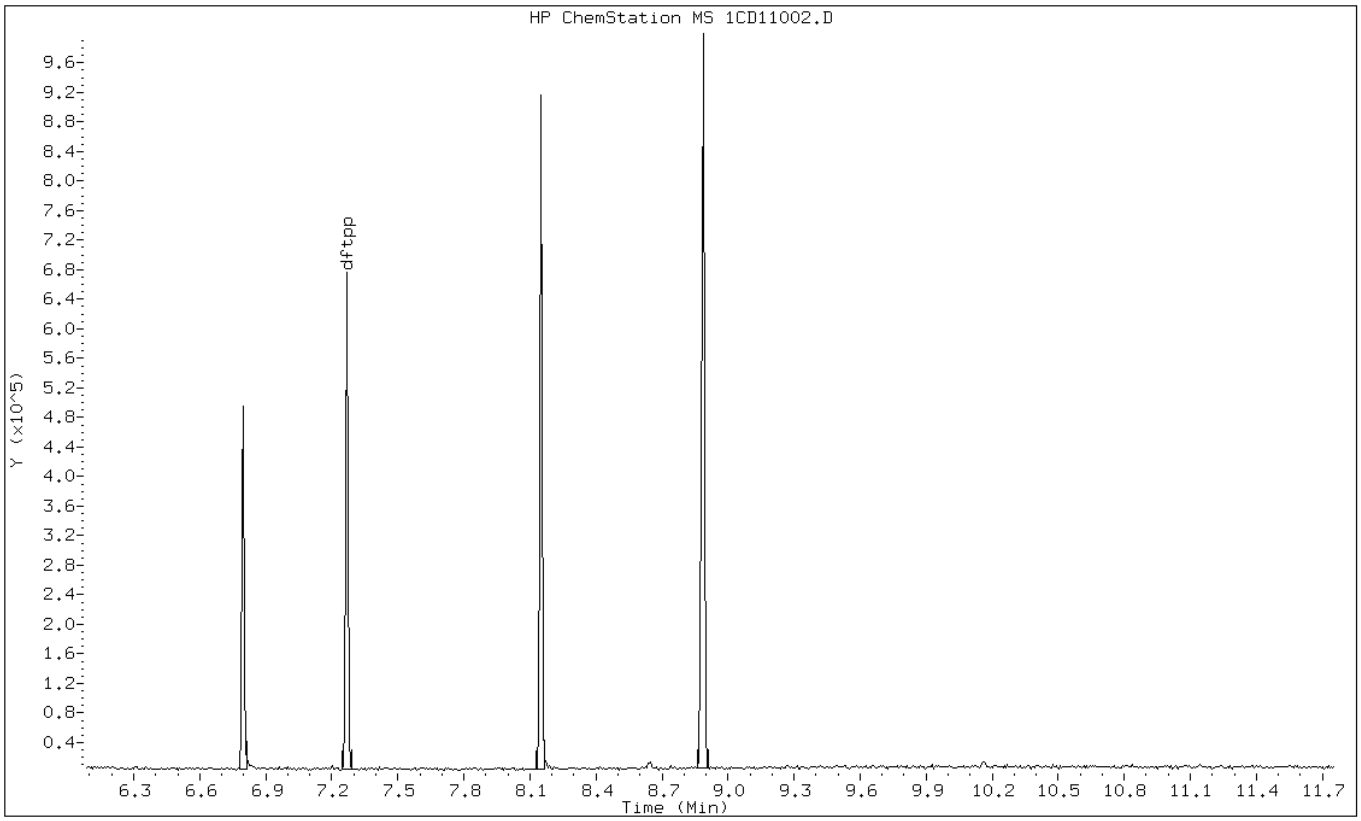
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.269	7.469	-0.200	198	54472			50.00- 0.00	100.00
7.269	7.469	-0.200	51	21074			10.00- 80.00	38.69
7.269	7.469	-0.200	68	353			0.00- 2.00	1.33
7.269	7.469	-0.200	69	26600			0.00- 0.00	48.83
7.269	7.469	-0.200	70	132			0.00- 2.00	0.50
7.269	7.469	-0.200	127	25024			10.00- 80.00	45.94
7.269	7.469	-0.200	197	448			0.00- 2.00	0.82
7.269	7.469	-0.200	442	41796			50.00- 0.00	76.73
7.269	7.469	-0.200	199	3165			5.00- 9.00	5.81
7.269	7.469	-0.200	275	11356			10.00- 60.00	20.85
7.269	7.469	-0.200	365	2771			1.00- 0.00	5.09
7.269	7.469	-0.200	441	5680			0.01- 99.99	64.97
7.269	7.469	-0.200	443	8743			15.00- 24.00	20.92

Data File: 1CD11002.D

Date: 11-APR-2013 11:38

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



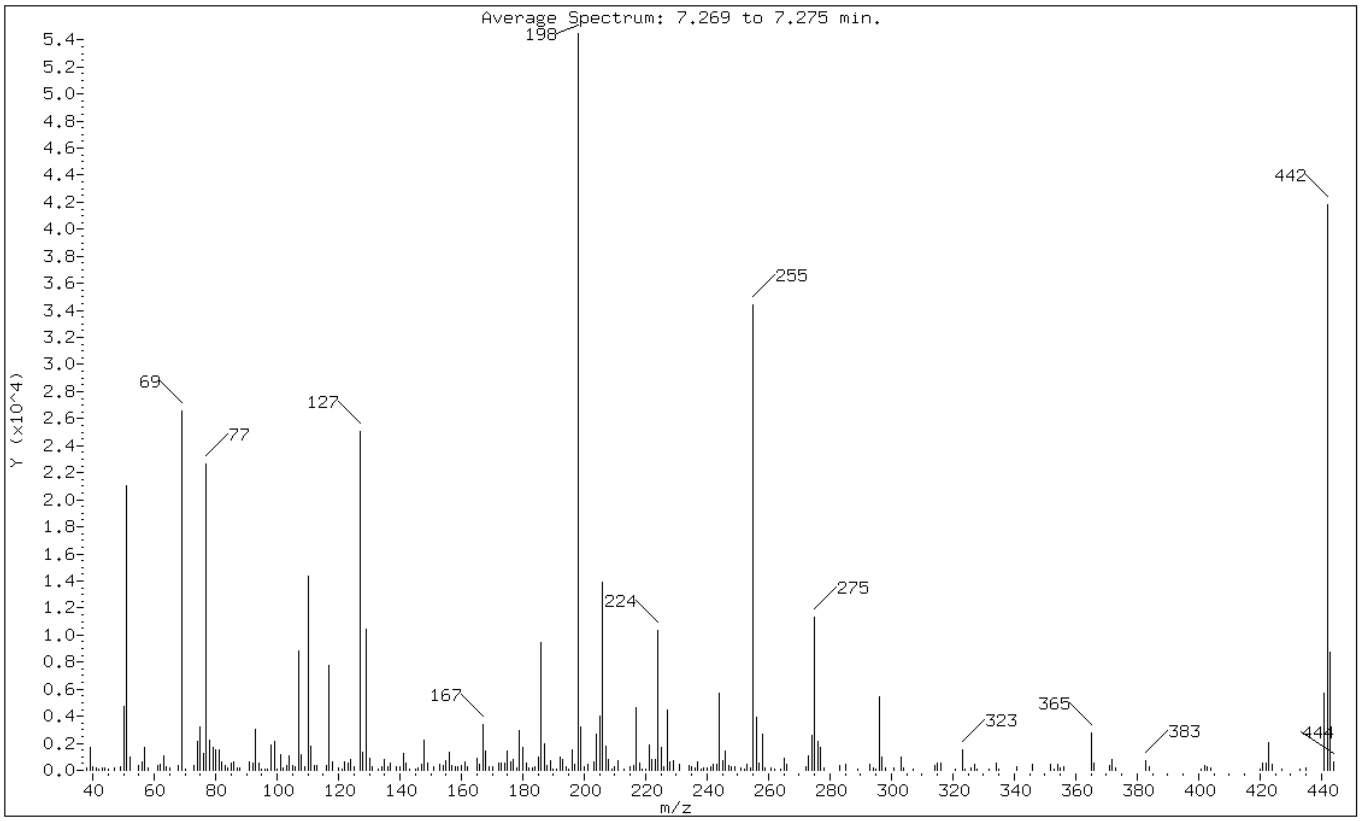
Data File: 1CD11002.D

Date: 11-APR-2013 11:38

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	38.69
68	Less than 2.00% of mass 69	0.65 (1.33)
69	Mass 69 relative abundance	48.83
70	Less than 2.00% of mass 69	0.24 (0.50)
127	10.00 - 80.00% of mass 198	45.94
197	Less than 2.00% of mass 198	0.82
442	Greater than 50.00% of mass 198	76.73
199	5.00 - 9.00% of mass 198	5.81
275	10.00 - 60.00% of mass 198	20.85
365	Greater than 1.00% of mass 198	5.09
441	Present, but less than mass 443	10.43
443	15.00 - 24.00% of mass 442	16.05 (20.92)

Data File: 1CD11002.D

Date: 11-APR-2013 11:38

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11002.D
Spectrum: Average Spectrum: 7.269 to 7.275 min.
Location of Maximum: 198.00
Number of points: 258

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	141	117.00	7792	192.00	941	266.00	463
39.00	1700	118.00	633	193.00	768	272.00	261
40.00	309	120.00	172	194.00	248	273.00	1086
41.00	212	121.00	81	195.00	118	274.00	2545
42.00	101	122.00	618	196.00	1486	275.00	11356
43.00	189	123.00	527	197.00	448	276.00	2162
44.00	218	124.00	760	198.00	54472	277.00	1668
45.00	75	125.00	297	199.00	3165	278.00	173
47.00	138	127.00	25024	200.00	261	283.00	397
49.00	296	128.00	1379	201.00	429	285.00	405
50.00	4728	129.00	10387	203.00	647	289.00	86
51.00	21072	130.00	905	204.00	2694	293.00	463
52.00	978	131.00	241	205.00	4012	294.00	163
55.00	372	133.00	76	206.00	13898	295.00	117
56.00	660	134.00	248	207.00	1801	296.00	5458
57.00	1715	135.00	839	208.00	802	297.00	985
58.00	143	136.00	263	209.00	108	298.00	186
61.00	354	137.00	547	210.00	311	301.00	140
62.00	440	139.00	248	211.00	692	303.00	973
63.00	1027	140.00	294	213.00	120	304.00	144
64.00	238	141.00	1264	215.00	302	307.00	75
65.00	219	142.00	522	216.00	382	314.00	371
68.00	353	143.00	119	217.00	4620	315.00	576
69.00	26600	145.00	86	218.00	501	316.00	571
70.00	132	146.00	154	219.00	78	321.00	122
73.00	387	147.00	484	220.00	83	323.00	1548
74.00	2154	148.00	2234	221.00	1909	324.00	106
75.00	3222	149.00	536	222.00	834	326.00	171
76.00	1231	151.00	277	223.00	833	327.00	475
77.00	22680	153.00	451	224.00	10305	328.00	129
78.00	2251	154.00	375	225.00	1699	332.00	90
79.00	1660	155.00	715	226.00	238	334.00	515
80.00	1523	156.00	1323	227.00	4427	335.00	88
81.00	1506	157.00	341	228.00	659	341.00	287
82.00	620	158.00	298	229.00	722	346.00	477
83.00	331	159.00	250	231.00	478	352.00	473
84.00	218	160.00	328	234.00	330	353.00	129
85.00	517	161.00	632	235.00	268	354.00	476
86.00	662	162.00	296	236.00	196	355.00	177
87.00	149	165.00	863	237.00	643	356.00	231

88.00	168	166.00	456	238.00	130	365.00	2771
91.00	638	167.00	3403	239.00	186	366.00	577
92.00	550	168.00	1471	240.00	203	371.00	326
93.00	3050	169.00	283	241.00	259	372.00	767
94.00	543	170.00	226	242.00	421	373.00	136
95.00	78	172.00	552	243.00	420	383.00	710
96.00	80	173.00	512	244.00	5690	384.00	290
97.00	97	174.00	492	245.00	728	401.00	123
98.00	1840	175.00	1453	246.00	1454	402.00	322
99.00	2133	176.00	612	247.00	328	403.00	283
100.00	97	177.00	818	248.00	255	404.00	187
101.00	1184	178.00	192	249.00	296	420.00	101
102.00	161	179.00	2908	251.00	152	421.00	556
103.00	325	180.00	1670	252.00	78	422.00	509
104.00	1088	181.00	547	253.00	422	423.00	2034
105.00	339	182.00	219	254.00	220	424.00	428
106.00	305	183.00	208	255.00	34392	427.00	77
107.00	8863	184.00	269	256.00	3905	433.00	77
108.00	1145	185.00	954	257.00	538	435.00	142
109.00	309	186.00	9451	258.00	2671	441.00	5680
110.00	14323	187.00	1971	259.00	192	442.00	41792
111.00	1814	188.00	326	261.00	196	443.00	8743
112.00	372	189.00	673	262.00	109	444.00	645
113.00	319	190.00	129	264.00	98		
116.00	324	191.00	101	265.00	936		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88980-2

SDG No.: 68088980-2

Client Sample ID: | Lab Sample ID: MB 660-136266/1-A

Matrix: Solid | Lab File ID: 1CD11011.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/09/2013 13:55

Sample wt/vol: 15.29(g) | Date Analyzed: 04/11/2013 14:51

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.: 136370 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	U	98	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	7.0
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11011.D
Lab Smp Id: mb 660-136266/1-a
Inj Date : 11-APR-2013 14:51
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-136266/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 11 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.290	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

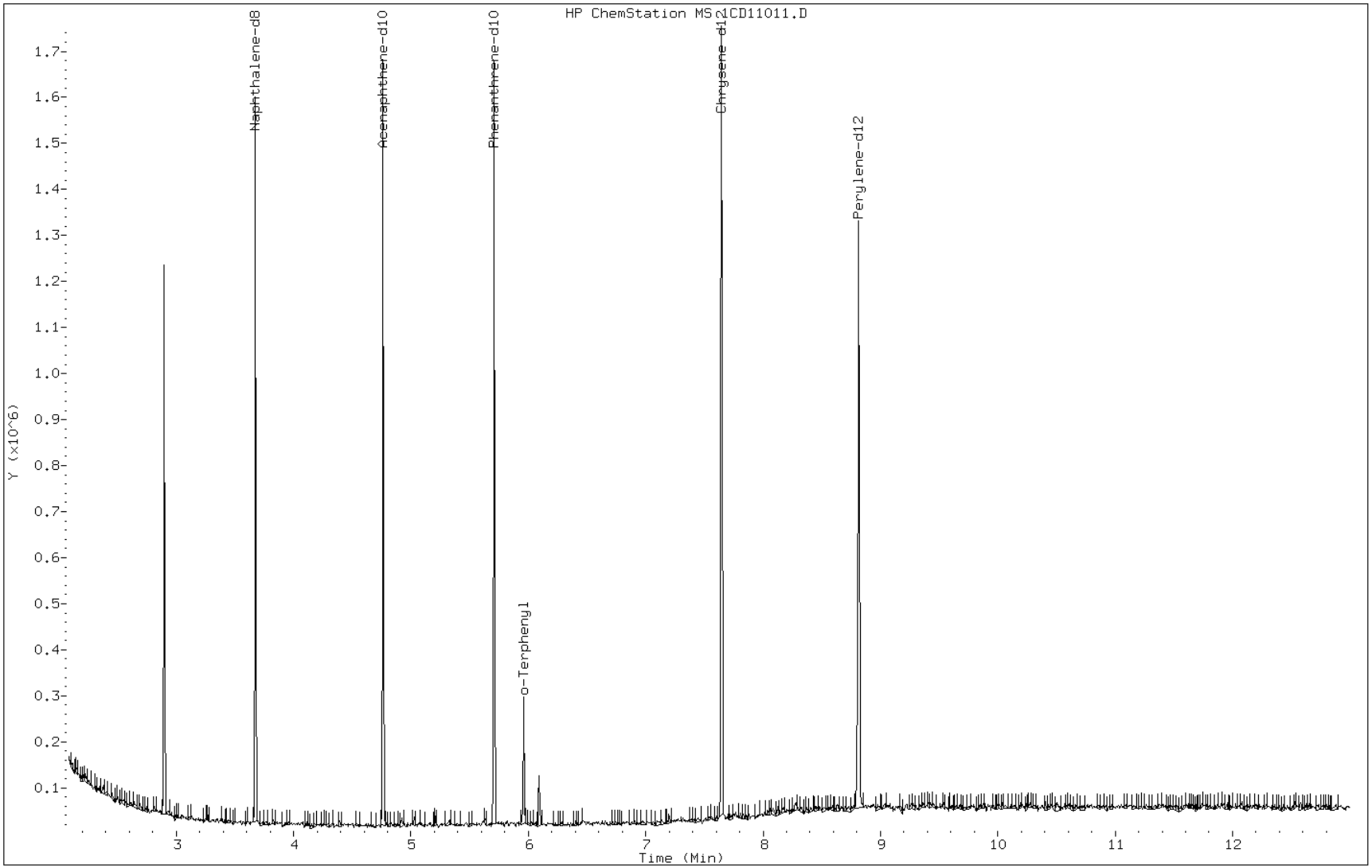
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.674	3.675	(1.000)	243800	40.0000	
*	6 Acenaphthene-d10	164	4.762	4.763	(1.000)	163859	40.0000	
*	10 Phenanthrene-d10	188	5.709	5.704	(1.000)	301960	40.0000	
$	14 o-Terphenyl	230	5.962	5.957	(1.044)	31188	6.92684	453.0309
*	18 Chrysene-d12	240	7.645	7.639	(1.000)	362954	40.0000	
*	23 Perylene-d12	264	8.815	8.798	(1.000)	389222	40.0000	

Data File: 1CD11011.D

Date: 11-APR-2013 14:51

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-136266/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88980-2

SDG No.: 68088980-2

Client Sample ID: | Lab Sample ID: LCS 660-136266/2-A

Matrix: Solid | Lab File ID: 1CD11012.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/09/2013 13:55

Sample wt/vol: 15.40(g) | Date Analyzed: 04/11/2013 15:10

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.: 136370 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	362		97	19
208-96-8	Acenaphthylene	425		39	4.9
120-12-7	Anthracene	401		8.2	4.1
56-55-3	Benzo[a]anthracene	375		7.8	3.8
50-32-8	Benzo[a]pyrene	321		10	5.1
205-99-2	Benzo[b]fluoranthene	499		12	5.9
191-24-2	Benzo[g,h,i]perylene	380		19	4.3
207-08-9	Benzo[k]fluoranthene	394		7.8	3.5
218-01-9	Chrysene	359		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	403		19	4.0
206-44-0	Fluoranthene	453		19	3.9
86-73-7	Fluorene	396		19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	356		19	6.9
90-12-0	1-Methylnaphthalene	338		39	4.3
91-57-6	2-Methylnaphthalene	365		39	6.9
91-20-3	Naphthalene	384		39	4.3
85-01-8	Phenanthrene	366		7.8	3.8
129-00-0	Pyrene	398		19	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11012.D
Lab Smp Id: lcs 660-136266/2-a
Inj Date : 11-APR-2013 15:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-136266/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.400	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.674	3.675	(1.000)	252075	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	174312	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	321724	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	28733	6.08288	394.9919
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	412578	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000)	425428	40.0000	
	2 Naphthalene	128	3.686	3.687	(1.003)	40342	5.92047	384.4464
	3 2-Methylnaphthalene	142	4.110	4.115	(1.118)	24341	5.61399	364.5445
	4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	22673	5.20918	338.2582
	5 Acenaphthylene	152	4.674	4.675	(0.981)	48381	6.55015	425.3341
	7 Acenaphthene	154	4.780	4.781	(1.004)	24786	5.56830	361.5780
	9 Fluorene	166	5.098	5.104	(1.070)	34587	6.10586	396.4842
	11 Phenanthrene	178	5.721	5.722	(1.003)	53129	5.63375	365.8282
	12 Anthracene	178	5.757	5.757	(1.009)	57652	6.17259	400.8177

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.863	5.863	(1.028)	51063	5.87012	381.1764
15 Fluoranthene	202	6.551	6.557	(1.148)	72819	6.97714	453.0611
16 Pyrene	202	6.721	6.722	(0.880)	71917	6.12716	397.8675
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	67412	5.77806	375.1985
19 Chrysene	228	7.657	7.663	(1.002)	63762	5.52460	358.7401
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	82557	7.68313	498.9047
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	73712	6.06244	393.6647
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	54888	4.94167	320.8876
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.128)	53394	5.47809	355.7198(M)
25 Dibenzo(a,h)anthracene	278	9.933	9.945	(1.129)	62670	6.19977	402.5822
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	60975	5.85690	380.3179

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11012.D

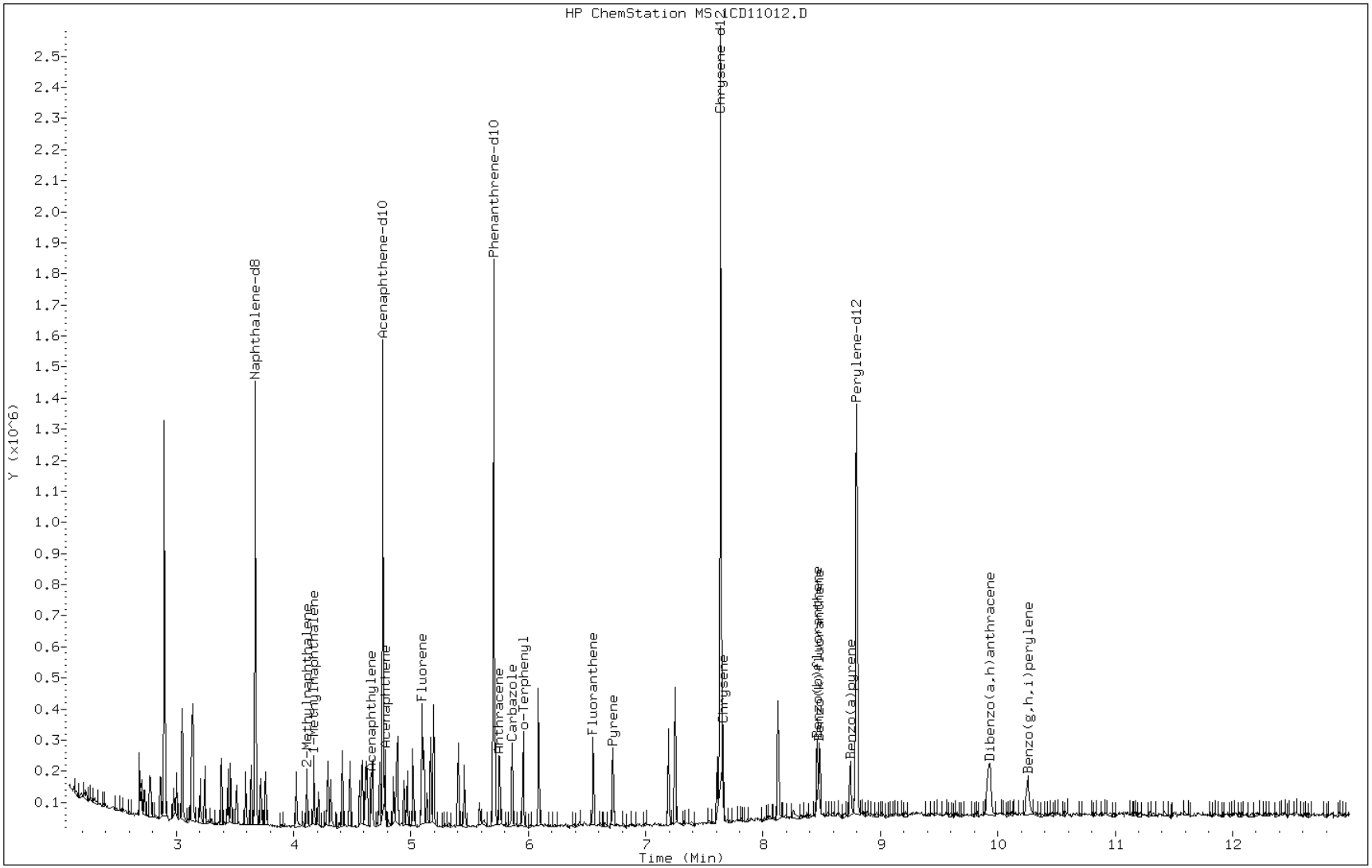
Date: 11-APR-2013 15:10

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136266/2-a

Operator: SCC



Manual Integration Report

Data File: 1CD11012.D
Inj. Date and Time: 11-APR-2013 15:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

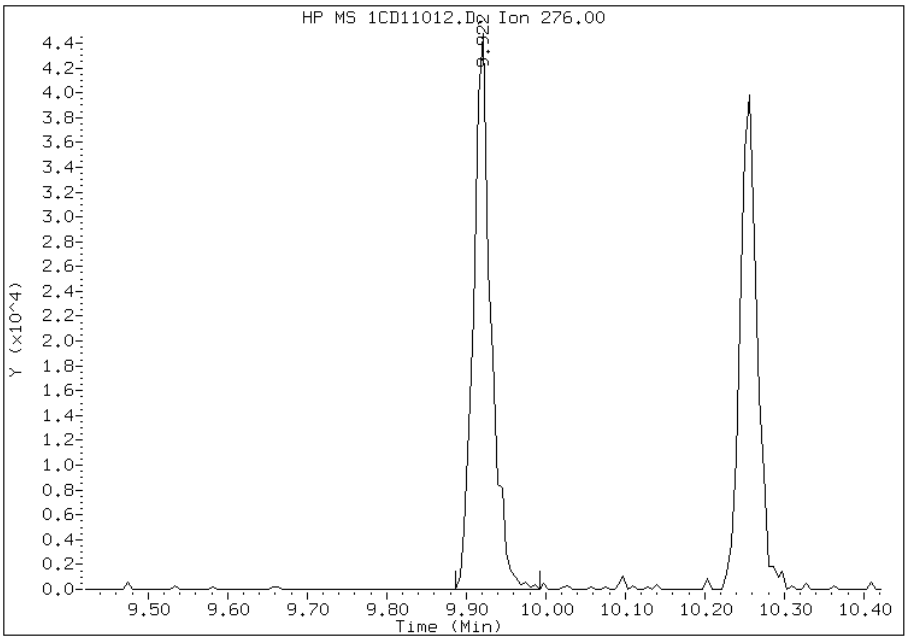
Processing Integration Results

RT: 9.92

Response: 68388

Amount: 7

Conc: 444



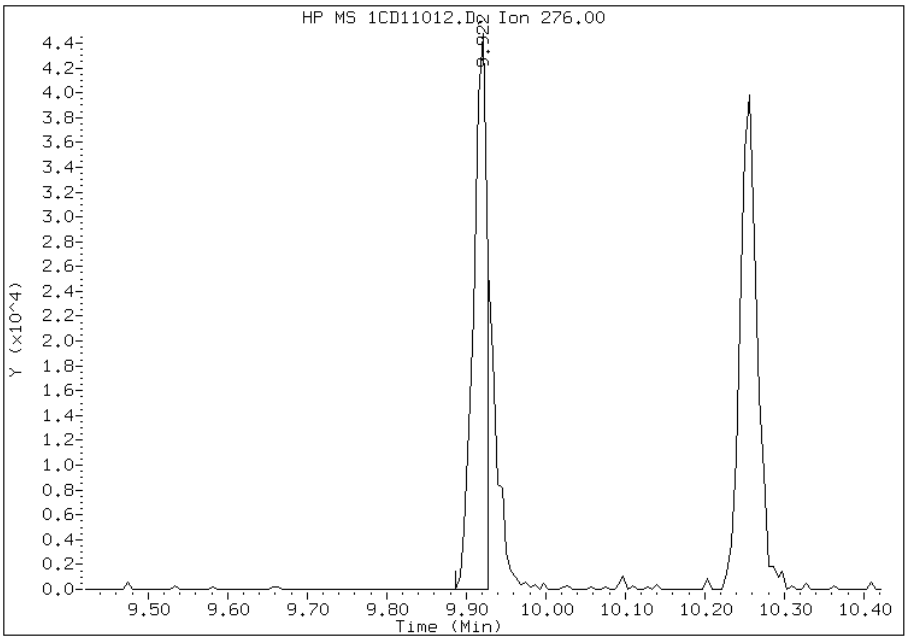
Manual Integration Results

RT: 9.92

Response: 53394

Amount: 5

Conc: 356



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 09:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88980-2

SDG No.: 68088980-2

Client Sample ID: CV0151A-CS MS | Lab Sample ID: 680-88980-21 MS

Matrix: Solid | Lab File ID: 1CD11014.D

Analysis Method: 8270C LL | Date Collected: 04/02/2013 13:20

Extract. Method: 3546 | Date Extracted: 04/09/2013 13:55

Sample wt/vol: 15.32(g) | Date Analyzed: 04/11/2013 15:46

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

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

% Moisture: 28.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136370 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	316		140	27
208-96-8	Acenaphthylene	370		54	6.8
120-12-7	Anthracene	372		11	5.7
56-55-3	Benzo[a]anthracene	366		11	5.3
50-32-8	Benzo[a]pyrene	308		14	7.1
205-99-2	Benzo[b]fluoranthene	390		17	8.3
191-24-2	Benzo[g,h,i]perylene	335		27	6.0
207-08-9	Benzo[k]fluoranthene	338		11	4.9
218-01-9	Chrysene	365		12	6.1
53-70-3	Dibenz(a,h)anthracene	372		27	5.6
206-44-0	Fluoranthene	400		27	5.4
86-73-7	Fluorene	338		27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	362		27	9.7
90-12-0	1-Methylnaphthalene	328		54	6.0
91-57-6	2-Methylnaphthalene	377		54	9.7
91-20-3	Naphthalene	320		54	6.0
85-01-8	Phenanthrene	362		11	5.3
129-00-0	Pyrene	385		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	41		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11014.D
Lab Smp Id: 680-88980-a-21-b ms
Inj Date : 11-APR-2013 15:46
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-21-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 14 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.674	3.675	(1.000)	296640	40.0000	
* 6 Acenaphthene-d10	164	4.762	4.763	(1.000)	207963	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	389509	40.0000	
$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	21833	4.07456	265.9635
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	440062	40.0000	
* 23 Perylene-d12	264	8.798	8.798	(1.000)	439786	40.0000	
2 Naphthalene	128	3.686	3.687	(1.003)	28264	3.52479	230.0774(R)
3 2-Methylnaphthalene	142	4.115	4.115	(1.120)	20834	4.15761	271.3842
4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	18495	3.61089	235.6979
5 Acenaphthylene	152	4.674	4.675	(0.981)	35877	4.07130	265.7508
7 Acenaphthene	154	4.780	4.781	(1.004)	18481	3.48003	227.1560(R)
9 Fluorene	166	5.098	5.104	(1.070)	25153	3.72190	242.9438(R)
11 Phenanthrene	178	5.721	5.722	(1.003)	45579	3.99215	260.5840(R)
12 Anthracene	178	5.757	5.757	(1.009)	46381	4.10166	267.7321

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.862	5.863	(1.028)	38313	3.63791	237.4618(R)
15 Fluoranthene	202	6.551	6.557	(1.148)	55735	4.41090	287.9174
16 Pyrene	202	6.721	6.722	(0.880)	53051	4.23754	276.6015(R)
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	50205	4.03445	263.3449
19 Chrysene	228	7.656	7.663	(1.002)	49557	4.02565	262.7708(R)
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	47697	4.29398	280.2860
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	46816	3.72467	243.1248
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	38960	3.39313	221.4833(R)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.933	(1.128)	38195	3.98772	260.2949(M)
25 Dibenzo(a,h)anthracene	278	9.933	9.945	(1.129)	41172	4.10299	267.8190
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	39752	3.69368	241.1018

QC Flag Legend

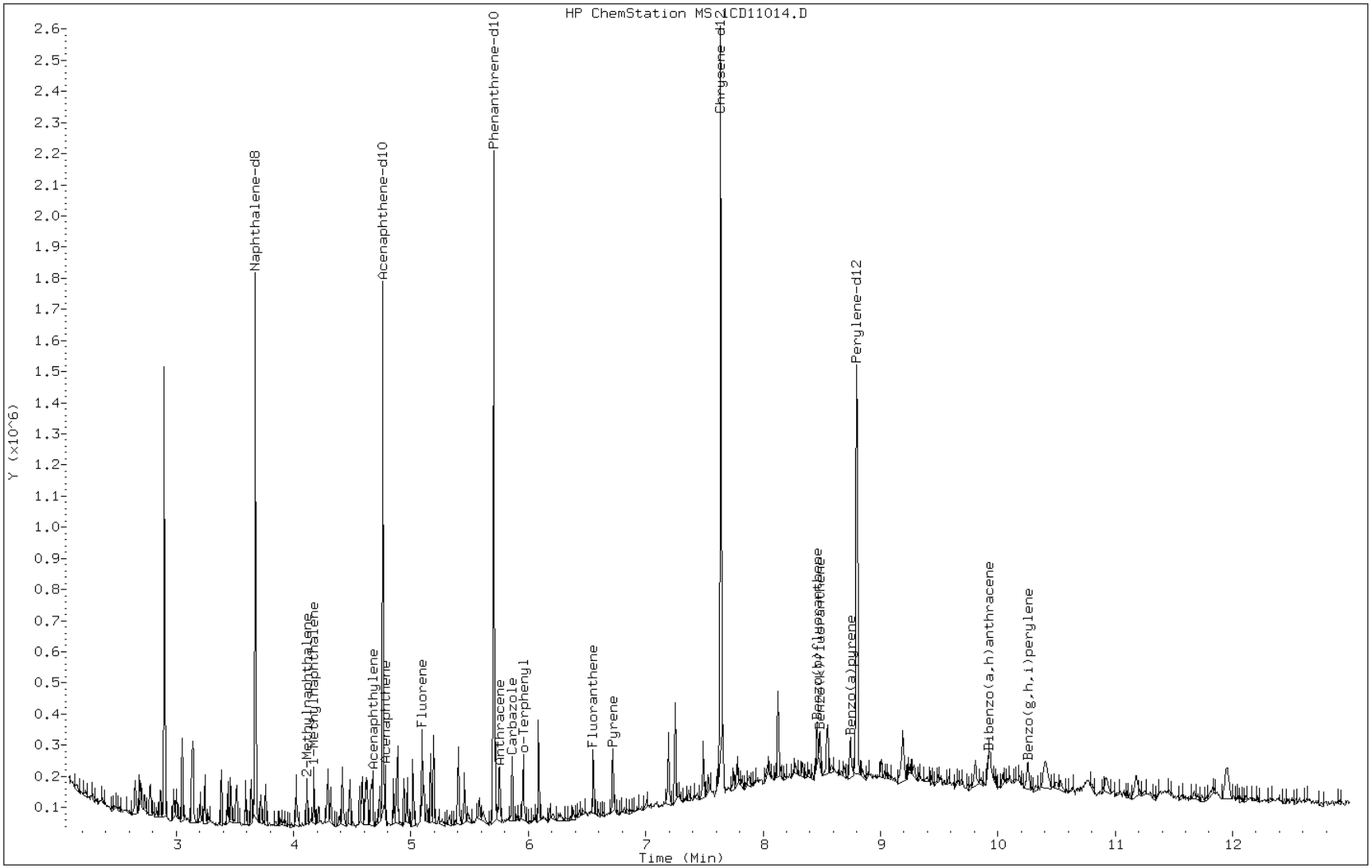
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD11014.D

Date: 11-APR-2013 15:46

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-b ms Operator: SCC



Manual Integration Report

Data File: 1CD11014.D
Inj. Date and Time: 11-APR-2013 15:46
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

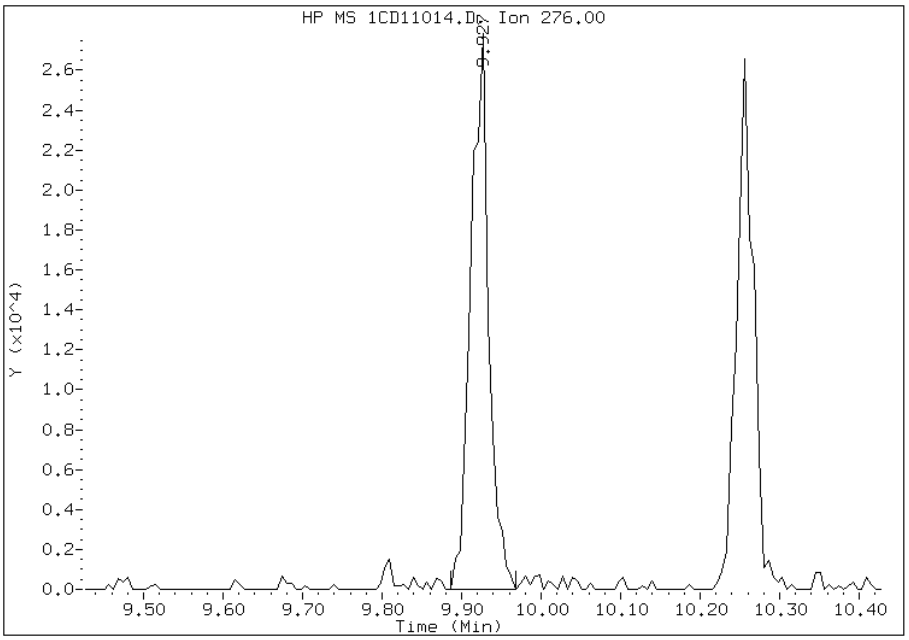
Processing Integration Results

RT: 9.93

Response: 43918

Amount: 4

Conc: 293



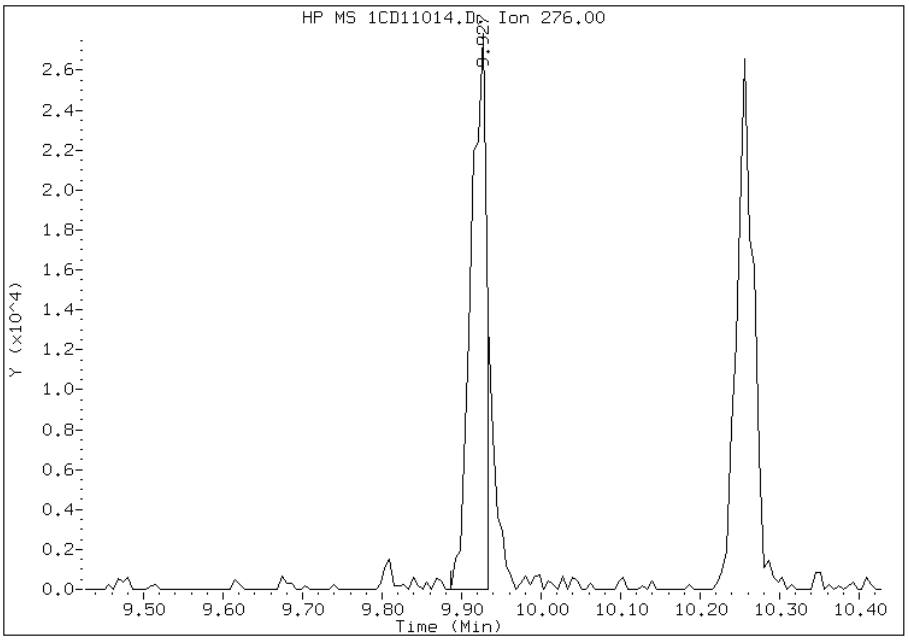
Manual Integration Results

RT: 9.93

Response: 38195

Amount: 4

Conc: 260



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 09:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88980-2

SDG No.: 68088980-2

Client Sample ID: CV0151A-CS MSD | Lab Sample ID: 680-88980-21 MSD

Matrix: Solid | Lab File ID: 1CD11015.D

Analysis Method: 8270C LL | Date Collected: 04/02/2013 13:20

Extract. Method: 3546 | Date Extracted: 04/09/2013 13:55

Sample wt/vol: 15.32(g) | Date Analyzed: 04/11/2013 16:05

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

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

% Moisture: 28.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136370 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	545		140	27
208-96-8	Acenaphthylene	581		54	6.8
120-12-7	Anthracene	568		11	5.7
56-55-3	Benzo[a]anthracene	531		11	5.3
50-32-8	Benzo[a]pyrene	523		14	7.1
205-99-2	Benzo[b]fluoranthene	610		17	8.3
191-24-2	Benzo[g,h,i]perylene	515		27	6.0
207-08-9	Benzo[k]fluoranthene	518		11	4.9
218-01-9	Chrysene	568		12	6.1
53-70-3	Dibenz(a,h)anthracene	544		27	5.6
206-44-0	Fluoranthene	582		27	5.4
86-73-7	Fluorene	596		27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	537		27	9.7
90-12-0	1-Methylnaphthalene	555		54	6.0
91-57-6	2-Methylnaphthalene	564		54	9.7
91-20-3	Naphthalene	556		54	6.0
85-01-8	Phenanthrene	578		11	5.3
129-00-0	Pyrene	612		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	59		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11015.D
Lab Smp Id: 680-88980-a-21-c ms
Inj Date : 11-APR-2013 16:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-21-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 15 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.674	3.675	(1.000)	302058	40.0000	
*	6 Acenaphthene-d10	164	4.763	4.763	(1.000)	211723	40.0000	
*	10 Phenanthrene-d10	188	5.704	5.704	(1.000)	391230	40.0000	
$	14 o-Terphenyl	230	5.957	5.957	(1.044)	33700	5.89139	384.5557
*	18 Chrysene-d12	240	7.639	7.639	(1.000)	454290	40.0000	
*	23 Perylene-d12	264	8.798	8.798	(1.000)	432351	40.0000	
	2 Naphthalene	128	3.686	3.687	(1.003)	50003	6.12399	399.7383
	3 2-Methylnaphthalene	142	4.116	4.115	(1.120)	32442	6.21363	405.5893
	4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	31914	6.11901	399.4129
	5 Acenaphthylene	152	4.674	4.675	(0.981)	57466	6.40540	418.1071
	7 Acenaphthene	154	4.780	4.781	(1.004)	32441	6.00026	391.6616
	9 Fluorene	166	5.098	5.104	(1.070)	45179	6.56643	428.6184
	11 Phenanthrene	178	5.721	5.722	(1.003)	73028	6.36863	415.7069
	12 Anthracene	178	5.757	5.757	(1.009)	71027	6.25357	408.1964

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.862	5.863	(1.028)	59685	5.64231	368.2969
15 Fluoranthene	202	6.551	6.557	(1.148)	81437	6.41661	418.8390
16 Pyrene	202	6.721	6.722	(0.880)	87168	6.74462	440.2494
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	75191	5.85307	382.0539
19 Chrysene	228	7.662	7.663	(1.003)	79495	6.25535	408.3125
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	73386	6.72028	438.6604
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	70454	5.70170	372.1735
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	65007	5.75899	375.9129
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.128)	59148	5.91370	386.0115(M)
25 Dibenzo(a,h)anthracene	278	9.939	9.945	(1.130)	61348	5.98824	390.8774(M)
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	60035	5.67427	370.3830

QC Flag Legend

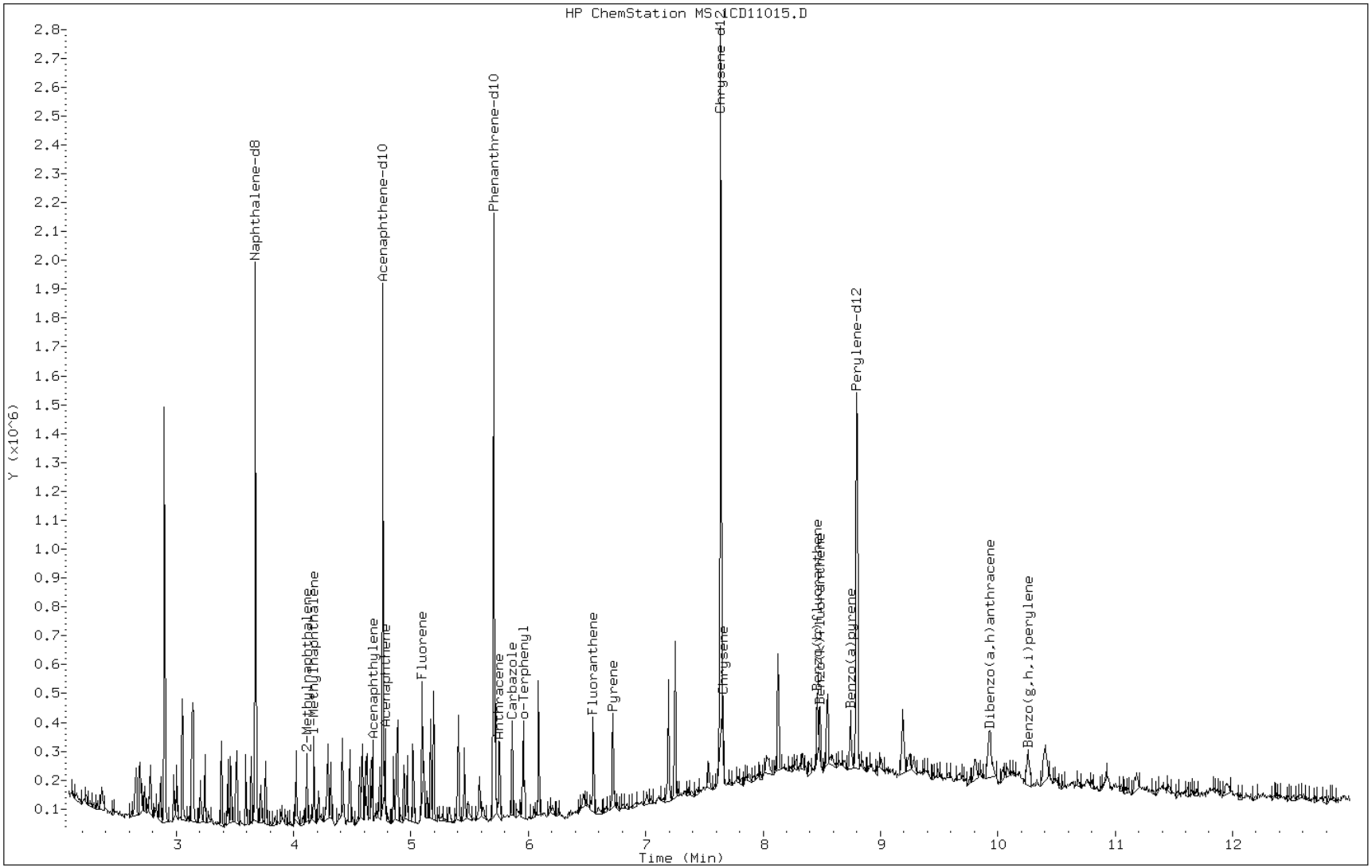
M - Compound response manually integrated.

Data File: 1CD11015.D

Date: 11-APR-2013 16:05

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-c msd Operator: SCC



Manual Integration Report

Data File: 1CD11015.D
Inj. Date and Time: 11-APR-2013 16:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/12/2013

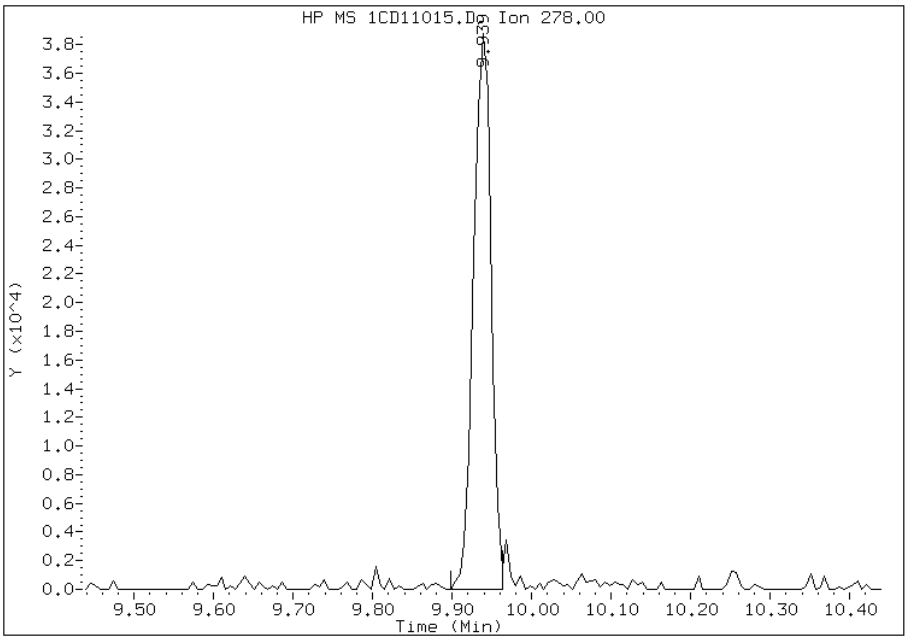
Processing Integration Results

RT: 9.94

Response: 59106

Amount: 6

Conc: 378



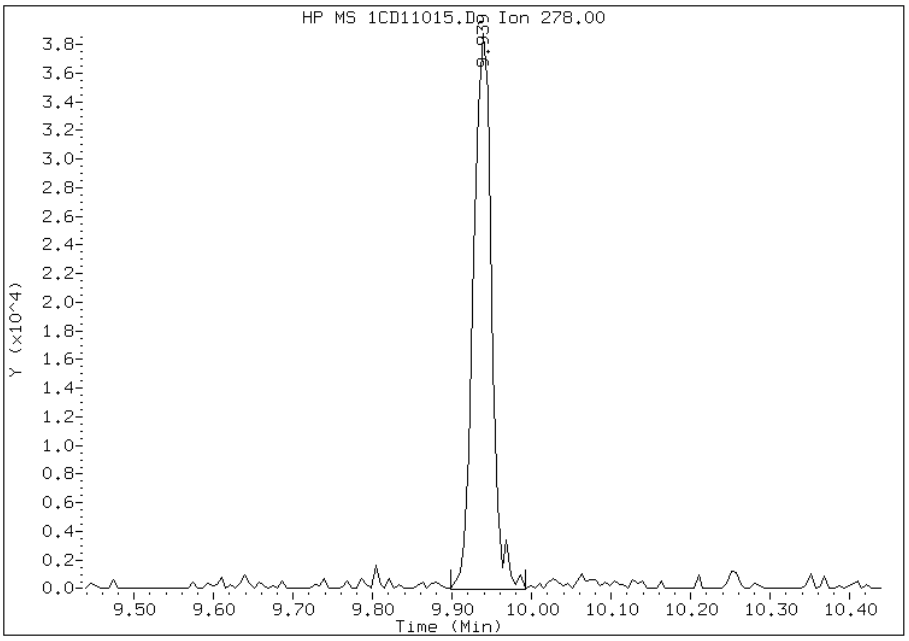
Manual Integration Results

RT: 9.94

Response: 61348

Amount: 6

Conc: 391



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 09:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11015.D
Inj. Date and Time: 11-APR-2013 16:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

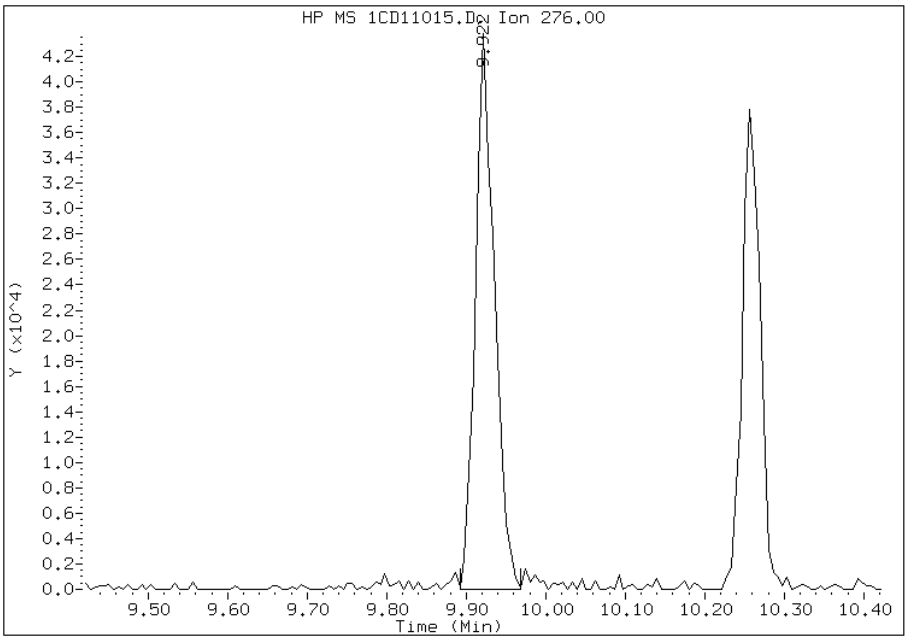
Processing Integration Results

RT: 9.92

Response: 72370

Amount: 7

Conc: 463



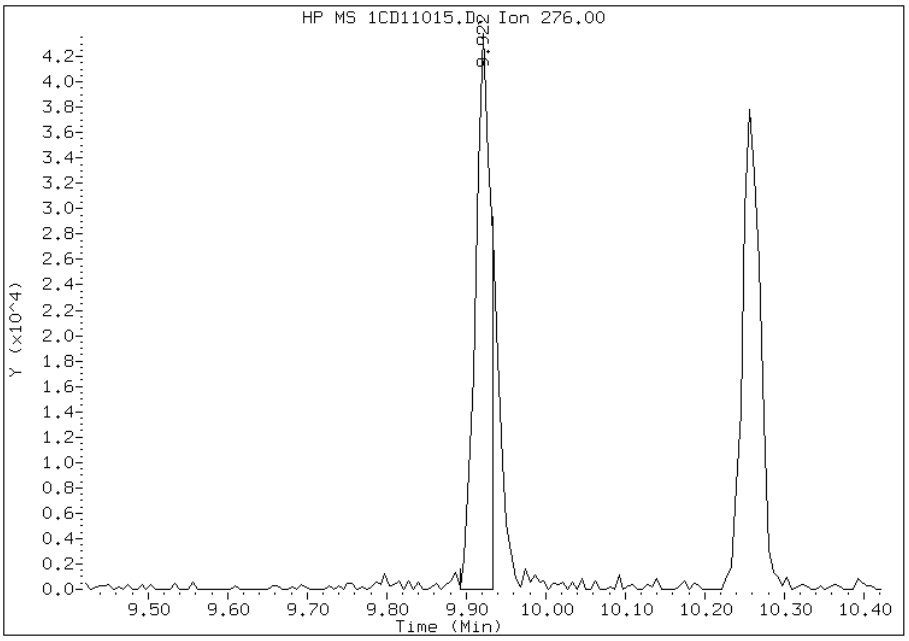
Manual Integration Results

RT: 9.92

Response: 59148

Amount: 6

Conc: 386



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 09:58
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Instrument ID: BSMC5973 Start Date: 04/11/2013 11:01

Analysis Batch Number: 136370 End Date: 04/11/2013 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/11/2013 11:01	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 11:20	1		DB-5MS 250(um)
DFTPP 660-136370/2		04/11/2013 11:38	1	1CD11002.D	DB-5MS 250(um)
ICIS 660-136370/3		04/11/2013 11:56	1	1CD11003.D	DB-5MS 250(um)
IC 660-136370/4		04/11/2013 12:35	1	1CD11004.D	DB-5MS 250(um)
IC 660-136370/5		04/11/2013 12:53	1	1CD11005.D	DB-5MS 250(um)
IC 660-136370/6		04/11/2013 13:11	1	1CD11006.D	DB-5MS 250(um)
IC 660-136370/7		04/11/2013 13:30	1	1CD11007.D	DB-5MS 250(um)
IC 660-136370/8		04/11/2013 13:48	1	1CD11008.D	DB-5MS 250(um)
IC 660-136370/9		04/11/2013 14:06	1	1CD11009.D	DB-5MS 250(um)
ICV 660-136370/10		04/11/2013 14:25	1	1CD11010.D	DB-5MS 250(um)
MB 660-136266/1-A		04/11/2013 14:51	1	1CD11011.D	DB-5MS 250(um)
LCS 660-136266/2-A		04/11/2013 15:10	1	1CD11012.D	DB-5MS 250(um)
680-88980-21	CV0151A-CS	04/11/2013 15:28	1	1CD11013.D	DB-5MS 250(um)
680-88980-21 MS	CV0151A-CS MS	04/11/2013 15:46	1	1CD11014.D	DB-5MS 250(um)
680-88980-21 MSD	CV0151A-CS MSD	04/11/2013 16:05	1	1CD11015.D	DB-5MS 250(um)
680-88980-22	CV0151A-CSD	04/11/2013 16:23	1	1CD11016.D	DB-5MS 250(um)
680-88980-23	CV0151B-CS	04/11/2013 16:41	1	1CD11017.D	DB-5MS 250(um)
680-88980-24	CV1236A-CS	04/11/2013 17:00	1	1CD11018.D	DB-5MS 250(um)
680-88980-25	CV1236B-CS	04/11/2013 17:18	1	1CD11019.D	DB-5MS 250(um)
ZZZZZ		04/11/2013 17:36	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 17:54	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 18:13	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 18:31	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 18:49	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 19:08	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 19:26	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 19:44	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 20:03	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 20:21	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 20:39	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 20:58	4		DB-5MS 250(um)
ZZZZZ		04/11/2013 21:16	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 21:34	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 21:53	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Batch Number: 136266 Batch Start Date: 04/09/13 13:55 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/10/13 10:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136266/1		3546, 8270C LL		15.29 g	1 mL		1 mL		
LCS 660-136266/2		3546, 8270C LL		15.40 g	1 mL	1 mL	1 mL		
680-88980-A-21	CV0151A-CS	3546, 8270C LL	T	15.32 g	1 mL		1 mL		
680-88980-A-21 MS	CV0151A-CS	3546, 8270C LL	T	15.32 g	1 mL	1 mL	1 mL		
680-88980-A-21 MSD	CV0151A-CS	3546, 8270C LL	T	15.32 g	1 mL	1 mL	1 mL		
680-88980-A-22	CV0151A-CSD	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-88980-A-23	CV0151B-CS	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-88980-A-24	CV1236A-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-88980-A-25	CV1236B-CS	3546, 8270C LL	T	15.25 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Batch Number: 136266 Batch Start Date: 04/09/13 13:55 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/10/13 10:30

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 68
Microwave Start Time	15:50 4/9/13
Microwave Stop Time	16:25 4/9/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT 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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88980-2

SDG No.: 68088980-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0151A-CS	680-88980-21
CV0151A-CSD	680-88980-22
CV0151B-CS	680-88980-23
CV1236A-CS	680-88980-24
CV1236B-CS	680-88980-25

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88980-2

SDG Number: 68088980-2

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88980-2

SDG Number: 68088980-2

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa   Job No.: 680-88980-2

SDG No.: 68088980-2

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 04/08/2013 13:01   End Date: 04/08/2013 13:01

Lab Sample ID	D/F	Type	Time	Analytes: Moist
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
680-88980-A-8 MS	1	T	13:01	X
680-88980-A-8 MSD	1	T	13:01	X
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
680-88980-21	1	T	13:01	X
680-88980-21 MS	1	T	13:01	X
680-88980-21 MSD	1	T	13:01	X
680-88980-22	1	T	13:01	X
680-88980-23	1	T	13:01	X
680-88980-24	1	T	13:01	X
680-88980-25	1	T	13:01	X
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
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ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	
ZZZZZZ			13:01	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa   Job No.: 680-88980-2

SDG No.: 68088980-2

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 04/08/2013 13:01   End Date: 04/08/2013 13:01

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			13:01																				
ZZZZZZ			13:01																				
ZZZZZZ			13:01																				
ZZZZZZ			13:01																				
ZZZZZZ			13:01																				
ZZZZZZ			13:01																				
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ZZZZZZ			13:01																				
ZZZZZZ			13:01																				
ZZZZZZ			13:01																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88980-2

SDG No.: 68088980-2

Batch Number: 136226 Batch Start Date: 04/08/13 13:01 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88980-A-8 MS		Moisture	T	8	0 g	4.24 g	2.27 g		
680-88980-A-8 MSD		Moisture	T	8	0 g	4.24 g	2.27 g		
680-88980-A-21	CV0151A-CS	Moisture	T	21	0 g	5.09 g	3.66 g		
680-88980-A-21 MS	CV0151A-CS	Moisture	T	21	0 g	5.09 g	3.66 g		
680-88980-A-21 MSD	CV0151A-CS	Moisture	T	21	0 g	5.09 g	3.66 g		
680-88980-A-22	CV0151A-CSD	Moisture	T	22	0 g	4.67 g	3.21 g		
680-88980-A-23	CV0151B-CS	Moisture	T	23	0 g	5.90 g	4.33 g		
680-88980-A-24	CV1236A-CS	Moisture	T	24	0 g	5.51 g	3.57 g		
680-88980-A-25	CV1236B-CS	Moisture	T	25	0 g	4.70 g	2.62 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.8.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 63546

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.: 200514R-1356
PROJECT LOCATION (STATE): AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 3

STANDARD REPORT DELIVERY ( )
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LL PAH	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-2-13	1026	CV0717B-CS	C		X			*			
	1235	HP0167A-CS-SP	C		X			X			
	1245	HP0167B-CS-SP	C		X			X			
	1345	CV0954A-CS-SP	C		X			X			
	1355	CV0954B-CS-SP	C		X			X			
	1350	CV0098A-CS	C		X			X			
	1215	CV0135A-CS	C		X			X			
	1220	CV0135B-CS	C		X			X			
	1320	CV0151A-CS	C		X			X			
	1325	CV0151A-CSD	C		X			X			
	1333	CV0151B-CS	C		X			X			
	1455	CV1236A-CS	C		X			X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-3-13	11:00						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	04/04/13	0952	YES ( ) NO ( )		680-89980	2-8 C

TAL8240-680 (1008)

Serial Number 63547

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	20051148-1356	AL

PAGE 3 OF 3

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 22 PAH & Metals RCRA	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-2-13	1505	CV1236B-CS	C		X			X		X	
"	0917	CV0666B-CS (sieve)	C		X			X		X	
"	1505	CV1236B-CS (sieve)	C		X			X		X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Anglin	4-3-13	1100						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	04/04/13	0952	YES ○ NO ○		680 988980	2.8 °C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-2
SDG Number: 68088980-2

Login Number: 88980
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-2
SDG Number: 68088980-2

Login Number: 88980
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 04/08/13 12:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-2
SDG Number: 68088980-2

Login Number: 88980
List Number: 3
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 04/12/13 08:13 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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: 680-88980-2
TestAmerica Sample Delivery Group: 68088980-2
Client Project/Site: 35th Avenue Superfund Site

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

Attn: Ms. Limari F Krebs

Authorized for release by:
4/12/2013 3:45:41 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com

Job ID: 680-88980-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88980-2

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

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

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

RECEIPT

The samples were received on 04/04/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C. The samples were repackaged and shipped to the TestAmerica Tampa facility where the cooler was received cooler in Tampa on 4/8/13 at 11.5 C. FEDEX did not deliver on Friday 04/05/2013 as requested. The cooler wasdelivered on the next standard delivery day. Client was notified.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0151A-CS (680-88980-21), CV0151A-CSD (680-88980-22), CV0151B-CS (680-88980-23), CV1236A-CS (680-88980-24) and CV1236B-CS (680-88980-25) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/09/2013 and analyzed on 04/11/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0151A-CS (680-88980-21) in batch 660-136370.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-88980-2
SDG: 68088980-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88980-21	CV0151A-CS	Solid	04/02/13 13:20	04/04/13 09:52
680-88980-22	CV0151A-CSD	Solid	04/02/13 13:25	04/04/13 09:52
680-88980-23	CV0151B-CS	Solid	04/02/13 13:33	04/04/13 09:52
680-88980-24	CV1236A-CS	Solid	04/02/13 14:55	04/04/13 09:52
680-88980-25	CV1236B-CS	Solid	04/02/13 15:05	04/04/13 09:52

Method Summary

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

TestAmerica Job ID: 680-88980-2
SDG: 68088980-2

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F	RPD of the MS and MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
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.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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

TestAmerica Job ID: 680-88980-2
SDG: 68088980-2

Client Sample ID: CV0151A-CS

Lab Sample ID: 680-88980-21

Date Collected: 04/02/13 13:20
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 71.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U F	140	27	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Acenaphthylene	**9.3**	**J F**	54	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Anthracene	**16**	**F**	11	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Benzo[a]anthracene	**40**	**F**	11	5.3	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Benzo[a]pyrene	**14**	**F**	14	7.1	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Benzo[b]fluoranthene	**69**	**F**	17	8.3	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Benzo[g,h,i]perylene	**40**	**F**	27	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Benzo[k]fluoranthene	**19**	**F**	11	4.9	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Chrysene	**33**	**F**	12	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Dibenz(a,h)anthracene	27	U	27	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Fluoranthene	**37**		27	5.4	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Fluorene	27	U F	27	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Indeno[1,2,3-cd]pyrene	27	U	27	9.7	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
1-Methylnaphthalene	**37**	**J F**	54	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
2-Methylnaphthalene	**82**		54	9.7	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Naphthalene	**64**	**F**	54	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Phenanthrene	**55**	**F**	11	5.3	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1
Pyrene	**51**	**F**	27	5.0	ug/Kg	☼	04/09/13 13:55	04/11/13 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*30 - 130*	*04/09/13 13:55*	*04/11/13 15:28*	*1*

Client Sample ID: CV0151A-CSD

Lab Sample ID: 680-88980-22

Date Collected: 04/02/13 13:25
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 68.7

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	☼	04/09/13 13:55	04/11/13 16:23	1
Acenaphthylene	58	U	58	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Anthracene	**11**	**J**	12	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Benzo[a]anthracene	**37**		12	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Benzo[a]pyrene	**19**		15	7.6	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Benzo[b]fluoranthene	**53**		18	8.9	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Benzo[g,h,i]perylene	**20**	**J**	29	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Benzo[k]fluoranthene	**18**		12	5.2	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Chrysene	**28**		13	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Dibenz(a,h)anthracene	29	U	29	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Fluoranthene	**34**		29	5.8	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Fluorene	29	U	29	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Indeno[1,2,3-cd]pyrene	29	U	29	10	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
1-Methylnaphthalene	**14**	**J**	58	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
2-Methylnaphthalene	**69**		58	10	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Naphthalene	**38**	**J**	58	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Phenanthrene	**42**		12	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1
Pyrene	**29**		29	5.4	ug/Kg	☼	04/09/13 13:55	04/11/13 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/09/13 13:55*	*04/11/13 16:23*	*1*

Client Sample ID: CV0151B-CS

Lab Sample ID: 680-88980-23

Date Collected: 04/02/13 13:33
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 73.4

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	27	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Acenaphthylene	53	U	53	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Anthracene	11	U	11	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Benzo[a]anthracene	**24**		11	5.2	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Benzo[a]pyrene	**19**		14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Benzo[b]fluoranthene	**36**		16	8.1	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Benzo[g,h,i]perylene	**22**	**J**	27	5.9	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Benzo[k]fluoranthene	**17**		11	4.8	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Chrysene	**48**		12	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Dibenz(a,h)anthracene	27	U	27	5.5	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Fluoranthene	**46**		27	5.3	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Fluorene	27	U	27	5.5	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Indeno[1,2,3-cd]pyrene	27	U	27	9.4	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
1-Methylnaphthalene	**25**	**J**	53	5.9	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
2-Methylnaphthalene	**65**		53	9.4	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Naphthalene	**46**	**J**	53	5.9	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Phenanthrene	**49**		11	5.2	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1
Pyrene	**31**		27	4.9	ug/Kg	☼	04/09/13 13:55	04/11/13 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/09/13 13:55*	*04/11/13 16:41*	*1*

Client Sample ID: CV1236A-CS

Lab Sample ID: 680-88980-24

Date Collected: 04/02/13 14:55
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 64.8

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	31	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Acenaphthylene	62	U	62	7.7	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Anthracene	13	U	13	6.5	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Benzo[a]anthracene	**44**		12	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Benzo[a]pyrene	**34**		16	8.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Benzo[b]fluoranthene	**73**		19	9.5	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Benzo[g,h,i]perylene	**29**	**J**	31	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Benzo[k]fluoranthene	**21**		12	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Chrysene	**30**		14	7.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Dibenz(a,h)anthracene	31	U	31	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Fluoranthene	**55**		31	6.2	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Fluorene	31	U	31	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Indeno[1,2,3-cd]pyrene	31	U	31	11	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
1-Methylnaphthalene	**8.4**	**J**	62	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
2-Methylnaphthalene	**43**	**J**	62	11	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Naphthalene	**37**	**J**	62	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Phenanthrene	**54**		12	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1
Pyrene	**58**		31	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*04/09/13 13:55*	*04/11/13 17:00*	*1*

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

TestAmerica Job ID: 680-88980-2
SDG: 68088980-2

Client Sample ID: CV1236B-CS
Date Collected: 04/02/13 15:05
Date Received: 04/04/13 09:52

Lab Sample ID: 680-88980-25
Matrix: Solid
Percent Solids: 55.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	35	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Acenaphthylene	71	U	71	8.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Anthracene	**49**		15	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Benzo[a]anthracene	**240**		14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Benzo[a]pyrene	**220**		18	9.2	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Benzo[b]fluoranthene	**450**		22	11	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Benzo[g,h,i]perylene	**160**		35	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Benzo[k]fluoranthene	**130**		14	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Chrysene	**260**		16	7.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Dibenz(a,h)anthracene	**110**		35	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Fluoranthene	**280**		35	7.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Fluorene	**22**	**J**	35	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Indeno[1,2,3-cd]pyrene	**180**		35	13	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
1-Methylnaphthalene	**47**	**J**	71	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
2-Methylnaphthalene	**92**		71	13	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Naphthalene	**69**	**J**	71	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Phenanthrene	**190**		14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1
Pyrene	**290**		35	6.5	ug/Kg	☼	04/09/13 13:55	04/11/13 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/09/13 13:55*	*04/11/13 17:18*	*1*

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

Lab Sample ID: MB 660-136266/1-A
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	98	U	98	20	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Dibenz(a,h)anthracene	20	U	20	4.0	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Fluoranthene	20	U	20	3.9	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Fluorene	20	U	20	4.0	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
2-Methylnaphthalene	39	U	39	7.0	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Naphthalene	39	U	39	4.3	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Pyrene	20	U	20	3.6	ug/Kg		04/09/13 13:55	04/11/13 14:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*04/09/13 13:55*	*04/11/13 14:51*	*1*

Lab Sample ID: LCS 660-136266/2-A
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	649	362		ug/Kg		56	39 - 130
Acenaphthylene	649	425		ug/Kg		66	38 - 130
Anthracene	649	401		ug/Kg		62	37 - 130
Benzo[a]anthracene	649	375		ug/Kg		58	40 - 130
Benzo[a]pyrene	649	321		ug/Kg		49	49 - 130
Benzo[b]fluoranthene	649	499		ug/Kg		77	37 - 130
Benzo[g,h,i]perylene	649	380		ug/Kg		59	32 - 130
Benzo[k]fluoranthene	649	394		ug/Kg		61	32 - 130
Chrysene	649	359		ug/Kg		55	41 - 130
Dibenz(a,h)anthracene	649	403		ug/Kg		62	27 - 130
Fluoranthene	649	453		ug/Kg		70	40 - 130
Fluorene	649	396		ug/Kg		61	40 - 130
Indeno[1,2,3-cd]pyrene	649	356		ug/Kg		55	30 - 130
1-Methylnaphthalene	649	338		ug/Kg		52	31 - 130
2-Methylnaphthalene	649	365		ug/Kg		56	33 - 130
Naphthalene	649	384		ug/Kg		59	36 - 130
Phenanthrene	649	366		ug/Kg		56	42 - 130
Pyrene	649	398		ug/Kg		61	44 - 130

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

Lab Sample ID: LCS 660-136266/2-A
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136266

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	61		30 - 130

Lab Sample ID: 680-88980-21 MS
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: CV0151A-CS
Prep Type: Total/NA
Prep Batch: 136266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	140	U F	908	316	F	ug/Kg	☼	35	39 - 130
Acenaphthylene	9.3	J F	908	370		ug/Kg	☼	40	38 - 130
Anthracene	16	F	908	372		ug/Kg	☼	39	37 - 130
Benzo[a]anthracene	40	F	908	366	F	ug/Kg	☼	36	40 - 130
Benzo[a]pyrene	14	F	908	308	F	ug/Kg	☼	32	49 - 130
Benzo[b]fluoranthene	69	F	908	390	F	ug/Kg	☼	35	37 - 130
Benzo[g,h,i]perylene	40	F	908	335		ug/Kg	☼	33	32 - 130
Benzo[k]fluoranthene	19	F	908	338		ug/Kg	☼	35	32 - 130
Chrysene	33	F	908	365	F	ug/Kg	☼	37	41 - 130
Dibenz(a,h)anthracene	27	U	908	372		ug/Kg	☼	41	27 - 130
Fluoranthene	37		908	400		ug/Kg	☼	40	40 - 130
Fluorene	27	U F	908	338	F	ug/Kg	☼	37	40 - 130
Indeno[1,2,3-cd]pyrene	27	U	908	362		ug/Kg	☼	40	30 - 130
1-Methylnaphthalene	37	J F	908	328		ug/Kg	☼	32	31 - 130
2-Methylnaphthalene	82		908	377		ug/Kg	☼	33	33 - 130
Naphthalene	64	F	908	320	F	ug/Kg	☼	28	36 - 130
Phenanthrene	55	F	908	362	F	ug/Kg	☼	34	42 - 130
Pyrene	51	F	908	385	F	ug/Kg	☼	37	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	41		30 - 130

Lab Sample ID: 680-88980-21 MSD
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: CV0151A-CS
Prep Type: Total/NA
Prep Batch: 136266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	140	U F	908	545	F	ug/Kg	☼	60	39 - 130	53	40
Acenaphthylene	9.3	J F	908	581	F	ug/Kg	☼	63	38 - 130	45	40
Anthracene	16	F	908	568	F	ug/Kg	☼	61	37 - 130	42	40
Benzo[a]anthracene	40	F	908	531		ug/Kg	☼	54	40 - 130	37	40
Benzo[a]pyrene	14	F	908	523	F	ug/Kg	☼	56	49 - 130	52	40
Benzo[b]fluoranthene	69	F	908	610	F	ug/Kg	☼	60	37 - 130	44	40
Benzo[g,h,i]perylene	40	F	908	515	F	ug/Kg	☼	52	32 - 130	42	40
Benzo[k]fluoranthene	19	F	908	518	F	ug/Kg	☼	55	32 - 130	42	40
Chrysene	33	F	908	568	F	ug/Kg	☼	59	41 - 130	43	40
Dibenz(a,h)anthracene	27	U	908	544		ug/Kg	☼	60	27 - 130	37	40
Fluoranthene	37		908	582		ug/Kg	☼	60	40 - 130	37	40
Fluorene	27	U F	908	596	F	ug/Kg	☼	66	40 - 130	55	40
Indeno[1,2,3-cd]pyrene	27	U	908	537		ug/Kg	☼	59	30 - 130	39	40
1-Methylnaphthalene	37	J F	908	555	F	ug/Kg	☼	57	31 - 130	52	40

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

Lab Sample ID: 680-88980-21 MSD
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: CV0151A-CS
Prep Type: Total/NA
Prep Batch: 136266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	82		908	564		ug/Kg	☼	53	33 - 130	40	40
Naphthalene	64	F	908	556	F	ug/Kg	☼	54	36 - 130	54	40
Phenanthrene	55	F	908	578	F	ug/Kg	☼	58	42 - 130	46	40
Pyrene	51	F	908	612	F	ug/Kg	☼	62	44 - 130	46	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*59*		*30 - 130*

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

TestAmerica Job ID: 680-88980-2
SDG: 68088980-2

GC/MS Semi VOA

Prep Batch: 136266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-21	CV0151A-CS	Total/NA	Solid	3546	
680-88980-21 MS	CV0151A-CS	Total/NA	Solid	3546	
680-88980-21 MSD	CV0151A-CS	Total/NA	Solid	3546	
680-88980-22	CV0151A-CSD	Total/NA	Solid	3546	
680-88980-23	CV0151B-CS	Total/NA	Solid	3546	
680-88980-24	CV1236A-CS	Total/NA	Solid	3546	
680-88980-25	CV1236B-CS	Total/NA	Solid	3546	
LCS 660-136266/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136266/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-21	CV0151A-CS	Total/NA	Solid	8270C LL	136266
680-88980-21 MS	CV0151A-CS	Total/NA	Solid	8270C LL	136266
680-88980-21 MSD	CV0151A-CS	Total/NA	Solid	8270C LL	136266
680-88980-22	CV0151A-CSD	Total/NA	Solid	8270C LL	136266
680-88980-23	CV0151B-CS	Total/NA	Solid	8270C LL	136266
680-88980-24	CV1236A-CS	Total/NA	Solid	8270C LL	136266
680-88980-25	CV1236B-CS	Total/NA	Solid	8270C LL	136266
LCS 660-136266/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136266
MB 660-136266/1-A	Method Blank	Total/NA	Solid	8270C LL	136266

General Chemistry

Analysis Batch: 136226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-21	CV0151A-CS	Total/NA	Solid	Moisture	
680-88980-21 MS	CV0151A-CS	Total/NA	Solid	Moisture	
680-88980-21 MSD	CV0151A-CS	Total/NA	Solid	Moisture	
680-88980-22	CV0151A-CSD	Total/NA	Solid	Moisture	
680-88980-23	CV0151B-CS	Total/NA	Solid	Moisture	
680-88980-24	CV1236A-CS	Total/NA	Solid	Moisture	
680-88980-25	CV1236B-CS	Total/NA	Solid	Moisture	

Client Sample ID: CV0151A-CS

Lab Sample ID: 680-88980-21
Date Collected: 04/02/13 13:20
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 71.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 15:28	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0151A-CSD

Lab Sample ID: 680-88980-22
Date Collected: 04/02/13 13:25
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 16:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0151B-CS

Lab Sample ID: 680-88980-23
Date Collected: 04/02/13 13:33
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 16:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV1236A-CS

Lab Sample ID: 680-88980-24
Date Collected: 04/02/13 14:55
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 64.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 17:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV1236B-CS

Lab Sample ID: 680-88980-25
Date Collected: 04/02/13 15:05
Matrix: Solid
Date Received: 04/04/13 09:52
Percent Solids: 55.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 17:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 1,3-680

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200548-1356	AC

(b) (6)

CLIENT ADDRESS 1220 Kennestone Circle Marietta, GA

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 3

STANDARD REPORT DELIVERY ◯
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LL PAH	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-2-13	1026	CV07-17B-CS	C		X			X		
	1235	HP0167A-CS SP	C		X			X		
	1245	HP0167B-CS-SP	C		X			X		
	1345	CV0954A-CS-SP	C		X			X		
	1355	CV0954B-CS-SP	C		X			X		
	1350	CV0098A-CS	C		X			X		
	1215	CV0135A-CS	C		X			X		
	1220	CV0135B-CS	C		X			X		
	1320	CV0151A-CS	C		X			X		
	1325	CV0151A-CSD	C		X			X		
	1333	CV0151B-CS	C		X			X		
	1455	CV1236A-CS	C		X			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4-3-13	1100						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	04/04/13	0952	YES ◯ NO ◯		680-88980	2-8c 1, 2.

TAL8240-680 (1008)

Serial Number 63147

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	20051148-1356	AL

(b) (6)

PAGE 3 OF 3

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

COMPANY CONTRACTING THIS WORK (if applicable)

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: LL PAH	REQUIRED ANALYSIS: Metals RCRA 8	REMARKS
4-2-13	1505	CV1236B-CS	C		X			X	X	
"	0917	CV0666B-CS (sieve)	C		X				X	
"	1505	CV1236B-CS (sieve)	C		X				X	

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Anglin	4-3-13	1100						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	04/04/13	0902	YES ○ NO ○		680 98980	2a, c 2, 3,

TAL8240-680 (1008)

Page 15 of 22

4/12/2013

Serial Number 63546

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.: 200514B-1356 | PROJECT LOCATION (STATE): AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 3

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LL PAH	NUMBER OF CONTAINERS SUBMITTED	REMARKS
		PRESERVATIVE								
4-2-13	1026	CV0717B-CS	C		X			X		
	1235	HP0167A-CS-SP	C		X			X		
	1245	HP0167B-CS-SP	C		X			X		
	1345	CV0954A-CS-SP	C		X			X		
	1355	CV0954B-CS-SP	C		X			X		
	1350	CV0098A-CS	C		X			X		
	1215	CV0135A-CS	C		X			X		
	1220	CV0135B-CS	C		X			X		
	1320	CV0151A-CS	C		X			X		
	1325	CV0151A-CSD	C		X			X		
	1333	CV0151B-CS	C		X			X		
	1455	CV1236A-CS	C		X			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-3-13	11:00						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	04/04/13	0952	YES ○ NO ○		680-89980	2-8°C

TAL8240-680 (1008)

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4/12/2013

Serial Number 63547

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
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○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	20051148-1350	AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 3 OF 3

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 22 PAH & Metals RCRA	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-2-13	1505	CV1236B-CS	C		X			X		X	
"	0917	CV0666B-CS (sieve)	C		X					X	
"	1505	CV1236B-CS (sieve)	C		X					X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Anglin	4-3-13	1100						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	04/04/13	0952	YES ○ NO ○		680 988980	28 °C

TAL8240-680 (1008)

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4/17/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-2
SDG Number: 68088980-2

Login Number: 88980
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-2
SDG Number: 68088980-2

Login Number: 88980
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 04/08/13 12:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-2
SDG Number: 68088980-2

Login Number: 88980
List Number: 3
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 04/12/13 08:13 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Certification Summary

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

TestAmerica Job ID: 680-88980-2
SDG: 68088980-2

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.

Certification Summary

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

TestAmerica Job ID: 680-88980-2
SDG: 68088980-2

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