REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-89275-2
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	04/10/2013
Reviewer:	Karen Marie Trujillo	Date:	05/02/2013
Concurrence[2]:	Martha Meyers-Lee	Date:	05/06/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 04113-RB-Bowls + Spoons (680-89275-1).	

[1] All analytical work subcontracted to TestAmerica of Tampa, FL
[2] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 04113-RB-Bowls + Spoons (680-89275-1) was collected during the week of 4/08/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-89275-1.	
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?		✓			
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 • CCV: 04/17/13 @ 10:18 • CCV: 04/19/13 @ 11:24 • CCV: 04/22/13 @ 11:50 • Instrument ID: BSMD5973 • Initial Calibration: 04/04/2013 • ICV: 04/04/13 @ 16:27 • CCV: 04/18/13 @ 14:03 • CCV: 04/22/13 @ 10:43	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with individual CCC		✓		ICV of 04/04/13 @ 16:27, instrument BSMD5973: Benzo[a]pyrene @-23.7 %D (Lab: ≤35.0, Project: ≤20), 76.5%R. A negative bias is indicated by the ICV	J

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				percent difference and the analyte was detected in the associated samples[3]; therefore, J flag results.	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 136462: 680-89275-2 (Batch sample), MS/MSD. Lab sample 680-89275-2 is a project-specific sample (CV0877A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89275-1. • Prep Batch 136551: 680-89220-41 (Batch sample), MS/MSD. Lab sample 680-89220-41 is a project-specific sample (HP0142B-CS-SP) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89220-3. • Prep Batch 136604: 680-89275-21 (CV0661A-CS-SP), MS/MSD	

[3] Associated sample: 680-89275-21 & -24

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results		✓		CV0661A-CS-SP (680-89275-21): Fluoranthene @ 72 and 141 %R (40-130). Qualification of data not required[4].	
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result	✓				
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		✓		Zero recovery (30-130%R) reported for o-Terphenyl during the analysis of CV0886B-CS-SP (680-89275-25). Qualification of data is not required, because the surrogate was not recovered due to sample dilution.	
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	✓				

[4] 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
calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to **Attachment B** (Case Narrative)	
Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment C**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

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

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

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

TestAmerica Job ID: 680-89275-2
SDG: 68089275-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89275-21	CV0661A-CS-SP	Solid	04/10/13 08:55	04/12/13 09:50
680-89275-22	CV0661B-CS-SP	Solid	04/10/13 09:15	04/12/13 09:50
680-89275-23	CV0661C-CS-SP	Solid	04/10/13 09:06	04/12/13 09:50
680-89275-24	CV0886A-CS-SP	Solid	04/10/13 13:55	04/12/13 09:50
680-89275-25	CV0886B-CS-SP	Solid	04/10/13 14:05	04/12/13 09:50

ATTACHMENT B

CASE NARRATIVE

Job ID: 680-89275-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89275-2

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 04/12/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0661A-CS-SP (680-89275-21), CV0661B-CS-SP (680-89275-22), CV0661C-CS-SP (680-89275-23), CV0886A-CS-SP (680-89275-24) and CV0886B-CS-SP (680-89275-25) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/16/2013, 04/17/2013 and 04/18/2013 and analyzed on 04/17/2013, 04/18/2013 and 04/22/2013.

Samples CV0661B-CS-SP (680-89275-22)[4X], CV0886A-CS-SP (680-89275-24)[100X], CV0886A-CS-SP (680-89275-24)[20X], CV0886A-CS-SP (680-89275-24)[4X], CV0886B-CS-SP (680-89275-25)[10X] and CV0886B-CS-SP (680-89275-25)[25X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl recovered outside the surrogate recovery criteria low for CV0886B-CS-SP (680-89275-25).

Several analytes recovered outside the recovery criteria low for the MS/MSD of sample 680-89220-41 in batch 660-136655.

Fluoranthene recovered outside the recovery criteria for the MSD of sample CV0661A-CS-SP (680-89275-21) in batch 660-136733.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-89275-2 in batch 660-136590. Fluoranthene, Phenanthrene and Pyrene exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT C

QUALIFIED SAMPLE RESULTS

Client Sample ID: CV0661A-CS-SP

Lab Sample ID: 680-89275-21

Date Collected: 04/10/13 08:55
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	27	J	130	26	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Acenaphthylene	320		52	6.5	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Anthracene	250		11	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Benzo[a]anthracene	860		10	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Benzo[a]pyrene	870	J	14	6.8	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Benzo[b]fluoranthene	1500		16	7.9	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Benzo[g,h,i]perylene	790		26	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Benzo[k]fluoranthene	480		10	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Chrysene	980		12	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Dibenz(a,h)anthracene	240		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Fluoranthene	1400	F	26	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Fluorene	45		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Indeno[1,2,3-cd]pyrene	690		26	9.2	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
1-Methylnaphthalene	130		52	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
2-Methylnaphthalene	170		52	9.2	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Naphthalene	280		52	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Phenanthrene	600		10	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Pyrene	1000		26	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/18/13 15:43*	*04/22/13 12:15*	*1*

Client Sample ID: CV0661B-CS-SP

Lab Sample ID: 680-89275-22

Date Collected: 04/10/13 09:15
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Acenaphthylene	210		200	25	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Anthracene	240		43	21	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Benzo[a]anthracene	1400		41	20	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Benzo[a]pyrene	1100		53	27	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Benzo[b]fluoranthene	1800		62	31	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Benzo[g,h,i]perylene	700		100	22	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Benzo[k]fluoranthene	600		41	18	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Chrysene	1400		46	23	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Dibenz(a,h)anthracene	440		100	21	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Fluoranthene	2400		100	20	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Fluorene	60	J	100	21	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Indeno[1,2,3-cd]pyrene	740		100	36	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
1-Methylnaphthalene	220		200	22	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
2-Methylnaphthalene	320		200	36	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Naphthalene	190	J	200	22	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Phenanthrene	1600		41	20	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Pyrene	2200		100	19	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*04/16/13 07:00*	*04/17/13 17:19*	*4*

Client Sample ID: CV0661C-CS-SP

Lab Sample ID: 680-89275-23
Date Collected: 04/10/13 09:06
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Acenaphthylene	60		49	6.2	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Anthracene	89		10	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Benzo[a]anthracene	420		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Benzo[a]pyrene	390		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Benzo[b]fluoranthene	680		15	7.5	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Benzo[g,h,i]perylene	320		25	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Benzo[k]fluoranthene	280		9.9	4.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Chrysene	490		11	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Dibenz(a,h)anthracene	120		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Fluoranthene	490		25	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Fluorene	33		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Indeno[1,2,3-cd]pyrene	300		25	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
1-Methylnaphthalene	170		49	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
2-Methylnaphthalene	210		49	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Naphthalene	170		49	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Phenanthrene	380		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Pyrene	440		25	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*04/16/13 07:00*	*04/17/13 17:38*	*1*

Client Sample ID: CV0886A-CS-SP

Lab Sample ID: 680-89275-24
Date Collected: 04/10/13 13:55
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	3100		200	26	ug/Kg	☼	04/16/13 07:00	04/18/13 14:50	4
1-Methylnaphthalene	5700		200	22	ug/Kg	☼	04/16/13 07:00	04/18/13 14:50	4
2-Methylnaphthalene	6000		200	36	ug/Kg	☼	04/16/13 07:00	04/18/13 14:50	4
Naphthalene	15000		200	22	ug/Kg	☼	04/16/13 07:00	04/18/13 14:50	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*30 - 130*	*04/16/13 07:00*	*04/18/13 14:50*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	22000		2600	510	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20
Anthracene	48000		210	110	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20
Benzo[g,h,i]perylene	62000		510	110	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20
Benzo[k]fluoranthene	51000		200	92	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20
Dibenz(a,h)anthracene	28000		510	100	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20
Fluorene	22000		510	100	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20
Indeno[1,2,3-cd]pyrene	66000		510	180	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	110000		1000	500	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100
Benzo[a]pyrene	91000	J	1300	660	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100
Benzo[b]fluoranthene	140000		1600	780	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100

Client Sample ID: CV0886A-CS-SP

Lab Sample ID: 680-89275-24

Date Collected: 04/10/13 13:55
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 78.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL2 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	100000		1100	570	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100
Fluoranthene	280000		2600	510	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100
Phenanthrene	190000		1000	500	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100
Pyrene	180000		2600	470	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100

Client Sample ID: CV0886B-CS-SP

Lab Sample ID: 680-89275-25

Date Collected: 04/10/13 14:05
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 68.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	6500		1400	290	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Acenaphthylene	700		570	72	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Anthracene	11000		120	60	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Benzo[a]anthracene	34000		110	56	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Benzo[a]pyrene	27000		150	75	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Benzo[b]fluoranthene	46000		180	88	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Benzo[g,h,i]perylene	17000		290	63	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Benzo[k]fluoranthene	19000		110	52	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Chrysene	30000		130	65	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Dibenz(a,h)anthracene	5400		290	59	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Fluorene	5900		290	59	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Indeno[1,2,3-cd]pyrene	15000		290	100	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
1-Methylnaphthalene	2000		570	63	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
2-Methylnaphthalene	2300		570	100	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Naphthalene	5300		570	63	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*30 - 130*	*04/17/13 16:34*	*04/22/13 14:05*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	63000		720	140	ug/Kg	☼	04/17/13 16:34	04/22/13 14:51	25
Phenanthrene	43000		290	140	ug/Kg	☼	04/17/13 16:34	04/22/13 14:51	25
Pyrene	41000		720	130	ug/Kg	☼	04/17/13 16:34	04/22/13 14:51	25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-89275-2

SDG Number: 68089275-2

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
4/24/2013 2:32 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
04/24/2013

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: 680-89275-2

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 04/12/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0661A-CS-SP (680-89275-21), CV0661B-CS-SP (680-89275-22), CV0661C-CS-SP (680-89275-23), CV0886A-CS-SP (680-89275-24) and CV0886B-CS-SP (680-89275-25) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/16/2013, 04/17/2013 and 04/18/2013 and analyzed on 04/17/2013, 04/18/2013 and 04/22/2013.

Samples CV0661B-CS-SP (680-89275-22)[4X], CV0886A-CS-SP (680-89275-24)[100X], CV0886A-CS-SP (680-89275-24)[20X], CV0886A-CS-SP (680-89275-24)[4X], CV0886B-CS-SP (680-89275-25)[10X] and CV0886B-CS-SP (680-89275-25)[25X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl recovered outside the surrogate recovery criteria low for CV0886B-CS-SP (680-89275-25).

Several analytes recovered outside the recovery criteria low for the MS/MSD of sample 680-89220-41 in batch 660-136655.

Fluoranthene recovered outside the recovery criteria for the MSD of sample CV0661A-CS-SP (680-89275-21) in batch 660-136733.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-89275-2 in batch 660-136590. Fluoranthene, Phenanthrene and Pyrene exceeded the rpd limit.

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: 680-89275-2
Sdg Number: 68089275-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89275-21	CV0661A-CS-SP	Solid	04/10/2013 0855	04/12/2013 0950
680-89275-21MS	CV0661A-CS-SP	Solid	04/10/2013 0855	04/12/2013 0950
680-89275-21MSD	CV0661A-CS-SP	Solid	04/10/2013 0855	04/12/2013 0950
680-89275-22	CV0661B-CS-SP	Solid	04/10/2013 0915	04/12/2013 0950
680-89275-23	CV0661C-CS-SP	Solid	04/10/2013 0906	04/12/2013 0950
680-89275-24	CV0886A-CS-SP	Solid	04/10/2013 1355	04/12/2013 0950
680-89275-25	CV0886B-CS-SP	Solid	04/10/2013 1405	04/12/2013 0950

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-2
Sdg Number: 68089275-2

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: 680-89275-2
Sdg Number: 68089275-2

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: 680-89275-2
Sdg Number: 68089275-2

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
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-2
Sdg Number: 68089275-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136462					
LCS 660-136462/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136462/1-A	Method Blank	T	Solid	3546	
680-89275-A-2-B MS	Matrix Spike	T	Solid	3546	
680-89275-A-2-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89275-22	CV0661B-CS-SP	T	Solid	3546	
680-89275-23	CV0661C-CS-SP	T	Solid	3546	
680-89275-24	CV0886A-CS-SP	T	Solid	3546	
680-89275-24DL	CV0886A-CS-SP	T	Solid	3546	
680-89275-24DL2	CV0886A-CS-SP	T	Solid	3546	
Prep Batch: 660-136551					
LCS 660-136551/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136551/1-A	Method Blank	T	Solid	3546	
680-89220-A-41-B MS	Matrix Spike	T	Solid	3546	
680-89220-A-41-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89275-25	CV0886B-CS-SP	T	Solid	3546	
680-89275-25DL	CV0886B-CS-SP	T	Solid	3546	
Analysis Batch:660-136590					
LCS 660-136462/2-A	Lab Control Sample	T	Solid	8270C LL	660-136462
MB 660-136462/1-A	Method Blank	T	Solid	8270C LL	660-136462
680-89275-A-2-B MS	Matrix Spike	T	Solid	8270C LL	660-136462
680-89275-A-2-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136462
680-89275-22	CV0661B-CS-SP	T	Solid	8270C LL	660-136462
680-89275-23	CV0661C-CS-SP	T	Solid	8270C LL	660-136462
Analysis Batch:660-136591					
680-89275-24	CV0886A-CS-SP	T	Solid	8270C LL	660-136462
680-89275-24DL	CV0886A-CS-SP	T	Solid	8270C LL	660-136462
680-89275-24DL2	CV0886A-CS-SP	T	Solid	8270C LL	660-136462
Prep Batch: 660-136604					
LCS 660-136604/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136604/1-A	Method Blank	T	Solid	3546	
680-89275-21	CV0661A-CS-SP	T	Solid	3546	
680-89275-21MS	Matrix Spike	T	Solid	3546	
680-89275-21MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-136655					
LCS 660-136551/2-A	Lab Control Sample	T	Solid	8270C LL	660-136551
MB 660-136551/1-A	Method Blank	T	Solid	8270C LL	660-136551
680-89220-A-41-B MS	Matrix Spike	T	Solid	8270C LL	660-136551
680-89220-A-41-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136551

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-2
Sdg Number: 68089275-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136698					
680-89275-25	CV0886B-CS-SP	T	Solid	8270C LL	660-136551
680-89275-25DL	CV0886B-CS-SP	T	Solid	8270C LL	660-136551
Analysis Batch:660-136733					
LCS 660-136604/2-A	Lab Control Sample	T	Solid	8270C LL	660-136604
MB 660-136604/1-A	Method Blank	T	Solid	8270C LL	660-136604
680-89275-21	CV0661A-CS-SP	T	Solid	8270C LL	660-136604
680-89275-21MS	Matrix Spike	T	Solid	8270C LL	660-136604
680-89275-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136604

Report Basis
T = Total

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-136437					
680-89275-21	CV0661A-CS-SP	T	Solid	Moisture	
680-89275-21MS	Matrix Spike	T	Solid	Moisture	
680-89275-21MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89275-22	CV0661B-CS-SP	T	Solid	Moisture	
680-89275-23	CV0661C-CS-SP	T	Solid	Moisture	
680-89275-24	CV0886A-CS-SP	T	Solid	Moisture	
680-89275-25	CV0886B-CS-SP	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

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.: 680-89275-2

SDG No.: 68089275-2

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMC5973 Analysis Batch Number: 136590

Lab Sample ID: CCVIS 660-136590/3 Client Sample ID:

Date Analyzed: 04/17/13 10:18 Lab File ID: 1CD17003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/17/13 10:33

Lab Sample ID: LCS 660-136462/2-A Client Sample ID:

Date Analyzed: 04/17/13 11:13 Lab File ID: 1CD17006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/17/13 15:42

Lab Sample ID: 680-89275-A-2-B MS Client Sample ID:

Date Analyzed: 04/17/13 11:49 Lab File ID: 1CD17008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/17/13 15:45

Lab Sample ID: 680-89275-A-2-C MSD Client Sample ID:

Date Analyzed: 04/17/13 12:08 Lab File ID: 1CD17009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/17/13 15:45

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMC5973 Analysis Batch Number: 136590

Lab Sample ID: 680-89275-22 Client Sample ID: CV0661B-CS-SP

Date Analyzed: 04/17/13 17:19 Lab File ID: 1CD17026.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	04/18/13 11:52
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/18/13 11:52
Indeno[1,2,3-cd]pyrene	9.91	Split Peak	cantins	04/18/13 11:51
Dibenz(a,h)anthracene	9.92	Baseline Event	cantins	04/18/13 11:51

Lab Sample ID: 680-89275-23 Client Sample ID: CV0661C-CS-SP

Date Analyzed: 04/17/13 17:38 Lab File ID: 1CD17027.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	04/18/13 12:11
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/18/13 12:11
Dibenz(a,h)anthracene	9.92	Baseline Event	cantins	04/18/13 12:12
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/18/13 12:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMC5973 Analysis Batch Number: 136655

Lab Sample ID: CCVIS 660-136655/3 Client Sample ID:

Date Analyzed: 04/19/13 11:24 Lab File ID: 1CD19003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.88	Split Peak	cantins	04/19/13 11:44

Lab Sample ID: LCS 660-136551/2-A Client Sample ID:

Date Analyzed: 04/19/13 14:42 Lab File ID: 1CD19013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.88	Split Peak	cantins	04/22/13 12:01

Lab Sample ID: 680-89220-A-41-B MS Client Sample ID:

Date Analyzed: 04/19/13 16:39 Lab File ID: 1CD19019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/22/13 12:48

Lab Sample ID: 680-89220-A-41-C MSD Client Sample ID:

Date Analyzed: 04/19/13 16:57 Lab File ID: 1CD19020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.88	Split Peak	cantins	04/22/13 12:48

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMC5973 Analysis Batch Number: 136698

Lab Sample ID: CCVIS 660-136698/3 Client Sample ID:

Date Analyzed: 04/22/13 11:50 Lab File ID: 1CD22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/22/13 12:08

Lab Sample ID: 680-89275-25 Client Sample ID: CV0886B-CS-SP

Date Analyzed: 04/22/13 14:05 Lab File ID: 1CD22009.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	04/22/13 14:26
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/22/13 14:26
Indeno[1,2,3-cd]pyrene	9.91	Split Peak	cantins	04/22/13 14:27

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMD5973 Analysis Batch Number: 136164

Lab Sample ID: IC 660-136164/15 Client Sample ID:

Date Analyzed: 04/04/13 13:49 Lab File ID: 1DD04007.D GC Column: DB-5MS ID: 250(um)

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

Lab Sample ID: IC 660-136164/16 Client Sample ID:

Date Analyzed: 04/04/13 14:11 Lab File ID: 1DD04008.D GC Column: DB-5MS ID: 250(um)

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

Lab Sample ID: IC 660-136164/17 Client Sample ID:

Date Analyzed: 04/04/13 14:34 Lab File ID: 1DD04009.D GC Column: DB-5MS ID: 250(um)

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

Lab Sample ID: IC 660-136164/18 Client Sample ID:

Date Analyzed: 04/04/13 14:57 Lab File ID: 1DD04010.D GC Column: DB-5MS ID: 250(um)

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

Lab Sample ID: ICIS 660-136164/19 Client Sample ID:

Date Analyzed: 04/04/13 15:19 Lab File ID: 1DD04011.D GC Column: DB-5MS ID: 250(um)

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMD5973 Analysis Batch Number: 136164

Lab Sample ID: IC 660-136164/20 Client Sample ID:

Date Analyzed: 04/04/13 15:42 Lab File ID: 1DD04012.D GC Column: DB-5MS ID: 250(um)

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

Lab Sample ID: IC 660-136164/21 Client Sample ID:

Date Analyzed: 04/04/13 16:04 Lab File ID: 1DD04013.D GC Column: DB-5MS ID: 250(um)

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

Lab Sample ID: ICV 660-136164/22 Client Sample ID:

Date Analyzed: 04/04/13 16:27 Lab File ID: 1DD04014.D GC Column: DB-5MS ID: 250(um)

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMD5973 Analysis Batch Number: 136591

Lab Sample ID: CCVIS 660-136591/7 Client Sample ID:

Date Analyzed: 04/18/13 14:03 Lab File ID: 1DD18006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/18/13 14:24

Lab Sample ID: 680-89275-24 DL Client Sample ID: CV0886A-CS-SP DL

Date Analyzed: 04/18/13 15:19 Lab File ID: 1DD18009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/18/13 15:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMD5973 Analysis Batch Number: 136733

Lab Sample ID: CCVIS 660-136733/3 Client Sample ID:

Date Analyzed: 04/22/13 10:43 Lab File ID: 1DD22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/22/13 11:05

Lab Sample ID: LCS 660-136604/2-A Client Sample ID:

Date Analyzed: 04/22/13 11:53 Lab File ID: 1DD22006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.69	Split Peak	cantins	04/23/13 09:23

Lab Sample ID: 680-89275-21 Client Sample ID: CV0661A-CS-SP

Date Analyzed: 04/22/13 12:15 Lab File ID: 1DD22007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.72	Split Peak	cantins	04/23/13 09:23

Lab Sample ID: 680-89275-21 MS Client Sample ID: CV0661A-CS-SP MS

Date Analyzed: 04/22/13 12:38 Lab File ID: 1DD22008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.74	Split Peak	cantins	04/23/13 09:24

Lab Sample ID: 680-89275-21 MSD Client Sample ID: CV0661A-CS-SP MSD

Date Analyzed: 04/22/13 13:00 Lab File ID: 1DD22009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.75	Split Peak	cantins	04/23/13 09:25

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.: 680-89275-2

SDG No.: 68089275-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH	#
CV0661A-CS-SP	680-89275-21	56	
CV0661B-CS-SP	680-89275-22	70	
CV0661C-CS-SP	680-89275-23	48	
CV0886A-CS-SP	680-89275-24	53	
CV0886B-CS-SP	680-89275-25	0	D
	MB 660-136462/1-A	61	
	MB 660-136551/1-A	57	
	MB 660-136604/1-A	63	
	LCS 660-136462/2-A	64	
	LCS 660-136551/2-A	74	
	LCS 660-136604/2-A	69	
	680-89275-A-2-B MS	36	
	680-89220-A-41-B MS	68	
CV0661A-CS-SP MS	680-89275-21 MS	54	
	680-89275-A-2-C MSD	39	
	680-89220-A-41-C MSD	60	
CV0661A-CS-SP MSD	680-89275-21 MSD	65	

	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.: 680-89275-2

SDG No.: 68089275-2

Matrix: Solid Level: Low Lab File ID: 1CD17006.D

Lab ID: LCS 660-136462/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	657	354	54	39-130	
Acenaphthylene	657	363	55	38-130	
Anthracene	657	424	65	37-130	
Benzo[a]anthracene	657	398	61	40-130	
Benzo[a]pyrene	657	358	54	49-130	
Benzo[b]fluoranthene	657	432	66	37-130	
Benzo[g,h,i]perylene	657	399	61	32-130	
Benzo[k]fluoranthene	657	380	58	32-130	
Chrysene	657	402	61	41-130	
Dibenz(a,h)anthracene	657	426	65	27-130	
Fluoranthene	657	381	58	40-130	
Fluorene	657	395	60	40-130	
Indeno[1,2,3-cd]pyrene	657	392	60	30-130	
1-Methylnaphthalene	657	392	60	31-130	
2-Methylnaphthalene	657	388	59	33-130	
Naphthalene	657	381	58	36-130	
Phenanthrene	657	391	59	42-130	
Pyrene	657	394	60	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Matrix: Solid Level: Low Lab File ID: 1CD19013.D

Lab ID: LCS 660-136551/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	663	524	79	39-130	
Acenaphthylene	663	490	74	38-130	
Anthracene	663	540	81	37-130	
Benzo[a]anthracene	663	569	86	40-130	
Benzo[a]pyrene	663	435	66	49-130	
Benzo[b]fluoranthene	663	519	78	37-130	
Benzo[g,h,i]perylene	663	483	73	32-130	
Benzo[k]fluoranthene	663	563	85	32-130	
Chrysene	663	567	86	41-130	
Dibenz(a,h)anthracene	663	544	82	27-130	
Fluoranthene	663	525	79	40-130	
Fluorene	663	494	74	40-130	
Indeno[1,2,3-cd]pyrene	663	536	81	30-130	
1-Methylnaphthalene	663	461	70	31-130	
2-Methylnaphthalene	663	473	71	33-130	
Naphthalene	663	495	75	36-130	
Phenanthrene	663	505	76	42-130	
Pyrene	663	495	75	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Matrix: Solid Level: Low Lab File ID: 1DD22006.D

Lab ID: LCS 660-136604/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	660	450	68	39-130	
Acenaphthylene	660	469	71	38-130	
Anthracene	660	453	69	37-130	
Benzo[a]anthracene	660	476	72	40-130	
Benzo[a]pyrene	660	427	65	49-130	
Benzo[b]fluoranthene	660	482	73	37-130	
Benzo[g,h,i]perylene	660	480	73	32-130	
Benzo[k]fluoranthene	660	482	73	32-130	
Chrysene	660	459	70	41-130	
Dibenz(a,h)anthracene	660	501	76	27-130	
Fluoranthene	660	479	73	40-130	
Fluorene	660	481	73	40-130	
Indeno[1,2,3-cd]pyrene	660	481	73	30-130	
1-Methylnaphthalene	660	467	71	31-130	
2-Methylnaphthalene	660	455	69	33-130	
Naphthalene	660	440	67	36-130	
Phenanthrene	660	444	67	42-130	
Pyrene	660	448	68	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.: 680-89275-2

SDG No.: 68089275-2

Matrix: Solid Level: Low Lab File ID: 1CD17008.D

Lab ID: 680-89275-A-2-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	840	130 U	342	41	39-130	
Acenaphthylene	840	100	376	32	38-130	F
Anthracene	840	79	367	34	37-130	F
Benzo[a]anthracene	840	340	608	32	40-130	F
Benzo[a]pyrene	840	300	496	23	49-130	F
Benzo[b]fluoranthene	840	580	747	19	37-130	F
Benzo[g,h,i]perylene	840	290	440	18	32-130	F
Benzo[k]fluoranthene	840	230	482	30	32-130	F
Chrysene	840	470	686	26	41-130	F
Dibenz(a,h)anthracene	840	140	347	25	27-130	F
Fluoranthene	840	450	634	22	40-130	F
Fluorene	840	26	368	41	40-130	
Indeno[1,2,3-cd]pyrene	840	260	432	21	30-130	F
1-Methylnaphthalene	840	360	681	39	31-130	
2-Methylnaphthalene	840	340	648	37	33-130	
Naphthalene	840	240	539	36	36-130	
Phenanthrene	840	460	668	25	42-130	F
Pyrene	840	440	673	27	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Matrix: Solid Level: Low Lab File ID: 1CD19019.D

Lab ID: 680-89220-A-41-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1110	86 J	755	60	39-130	
Acenaphthylene	1110	97	765	60	38-130	
Anthracene	1110	220	845	56	37-130	
Benzo[a]anthracene	1110	620	880	23	40-130	F
Benzo[a]pyrene	1110	700	795	9	49-130	F
Benzo[b]fluoranthene	1110	1300	1160	-14	37-130	F
Benzo[g,h,i]perylene	1110	540	729	17	32-130	F
Benzo[k]fluoranthene	1110	430	893	42	32-130	
Chrysene	1110	770	894	11	41-130	F
Dibenz(a,h)anthracene	1110	200	610	37	27-130	
Fluoranthene	1110	1200	1080	-11	40-130	F
Fluorene	1110	120	847	65	40-130	
Indeno[1,2,3-cd]pyrene	1110	510	690	16	30-130	F
1-Methylnaphthalene	1110	150	810	60	31-130	
2-Methylnaphthalene	1110	210	942	66	33-130	
Naphthalene	1110	240	899	59	36-130	
Phenanthrene	1110	830	999	15	42-130	F
Pyrene	1110	870	941	6	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Matrix: Solid Level: Low Lab File ID: 1DD22008.D

Lab ID: 680-89275-21 MS Client ID: CV0661A-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	868	27 J	478	52	39-130	
Acenaphthylene	868	320	865	62	38-130	
Anthracene	868	250	754	58	37-130	
Benzo[a]anthracene	868	860	1430	66	40-130	
Benzo[a]pyrene	868	870	1360	56	49-130	
Benzo[b]fluoranthene	868	1500	2150	70	37-130	
Benzo[g,h,i]perylene	868	790	1150	42	32-130	
Benzo[k]fluoranthene	868	480	1060	68	32-130	
Chrysene	868	980	1470	57	41-130	
Dibenz(a,h)anthracene	868	240	765	60	27-130	
Fluoranthene	868	1400	2060	72	40-130	
Fluorene	868	45	512	54	40-130	
Indeno[1,2,3-cd]pyrene	868	690	1150	52	30-130	
1-Methylnaphthalene	868	130	603	55	31-130	
2-Methylnaphthalene	868	170	659	56	33-130	
Naphthalene	868	280	832	64	36-130	
Phenanthrene	868	600	1090	57	42-130	
Pyrene	868	1000	1510	55	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Matrix: Solid Level: Low Lab File ID: 1CD17009.D

Lab ID: 680-89275-A-2-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	836	316	38	8	40	39-130	F
Acenaphthylene	836	416	37	10	40	38-130	F
Anthracene	836	422	41	14	40	37-130	
Benzo[a]anthracene	836	749	49	21	40	40-130	
Benzo[a]pyrene	836	623	38	23	40	49-130	F
Benzo[b]fluoranthene	836	939	42	23	40	37-130	
Benzo[g,h,i]perylene	836	547	31	22	40	32-130	F
Benzo[k]fluoranthene	836	638	49	28	40	32-130	
Chrysene	836	867	48	23	40	41-130	
Dibenz(a,h)anthracene	836	352	26	2	40	27-130	F
Fluoranthene	836	1120	80	56	40	40-130	F
Fluorene	836	376	42	2	40	40-130	
Indeno[1,2,3-cd]pyrene	836	518	31	18	40	30-130	
1-Methylnaphthalene	836	714	43	5	40	31-130	
2-Methylnaphthalene	836	766	51	17	40	33-130	
Naphthalene	836	657	50	20	40	36-130	
Phenanthrene	836	1020	67	41	40	42-130	F
Pyrene	836	1090	77	48	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Matrix: Solid Level: Low Lab File ID: 1CD19020.D

Lab ID: 680-89220-A-41-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1110	720	57	5	40	39-130	
Acenaphthylene	1110	829	66	8	40	38-130	
Anthracene	1110	752	48	12	40	37-130	
Benzo[a]anthracene	1110	924	27	5	40	40-130	F
Benzo[a]pyrene	1110	812	10	2	40	49-130	F
Benzo[b]fluoranthene	1110	1340	2	14	40	37-130	F
Benzo[g,h,i]perylene	1110	693	14	5	40	32-130	F
Benzo[k]fluoranthene	1110	728	27	20	40	32-130	F
Chrysene	1110	951	16	6	40	41-130	F
Dibenz(a,h)anthracene	1110	686	44	12	40	27-130	
Fluoranthene	1110	976	-20	10	40	40-130	F
Fluorene	1110	777	59	9	40	40-130	
Indeno[1,2,3-cd]pyrene	1110	688	16	0	40	30-130	F
1-Methylnaphthalene	1110	978	75	19	40	31-130	
2-Methylnaphthalene	1110	853	58	10	40	33-130	
Naphthalene	1110	867	56	4	40	36-130	
Phenanthrene	1110	919	8	8	40	42-130	F
Pyrene	1110	1010	12	7	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Matrix: Solid Level: Low Lab File ID: 1DD22009.D

Lab ID: 680-89275-21 MSD Client ID: CV0661A-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	868	571	63	18	40	39-130	
Acenaphthylene	868	1010	79	16	40	38-130	
Anthracene	868	957	81	24	40	37-130	
Benzo[a]anthracene	868	1750	103	20	40	40-130	
Benzo[a]pyrene	868	1700	96	22	40	49-130	
Benzo[b]fluoranthene	868	2660	128	21	40	37-130	
Benzo[g,h,i]perylene	868	1270	55	9	40	32-130	
Benzo[k]fluoranthene	868	1260	90	17	40	32-130	
Chrysene	868	1870	102	24	40	41-130	
Dibenz(a,h)anthracene	868	865	72	12	40	27-130	
Fluoranthene	868	2660	141	25	40	40-130	F
Fluorene	868	641	69	22	40	40-130	
Indeno[1,2,3-cd]pyrene	868	1290	69	12	40	30-130	
1-Methylnaphthalene	868	722	69	18	40	31-130	
2-Methylnaphthalene	868	778	70	17	40	33-130	
Naphthalene	868	973	80	16	40	36-130	
Phenanthrene	868	1420	95	27	40	42-130	
Pyrene	868	1850	94	20	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab File ID: 1CD17005.D Lab Sample ID: MB 660-136462/1-A

Matrix: Solid Date Extracted: 04/16/2013 07:00

Instrument ID: BSMC5973 Date Analyzed: 04/17/2013 10:54

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136462/2-A	1CD17006.D	04/17/2013 11:13
	680-89275-A-2-B MS	1CD17008.D	04/17/2013 11:49
	680-89275-A-2-C MSD	1CD17009.D	04/17/2013 12:08
CV0661B-CS-SP	680-89275-22	1CD17026.D	04/17/2013 17:19
CV0661C-CS-SP	680-89275-23	1CD17027.D	04/17/2013 17:38
CV0886A-CS-SP	680-89275-24	1DD18008.D	04/18/2013 14:50
CV0886A-CS-SP DL	680-89275-24 DL	1DD18009.D	04/18/2013 15:19
CV0886A-CS-SP DL2	680-89275-24 DL2	1DD18010.D	04/18/2013 15:48

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab File ID: 1CD19012.D Lab Sample ID: MB 660-136551/1-A

Matrix: Solid Date Extracted: 04/17/2013 16:34

Instrument ID: BSMC5973 Date Analyzed: 04/19/2013 14:23

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136551/2-A	1CD19013.D	04/19/2013 14:42
	680-89220-A-41-B MS	1CD19019.D	04/19/2013 16:39
	680-89220-A-41-C MSD	1CD19020.D	04/19/2013 16:57
CV0886B-CS-SP	680-89275-25	1CD22009.D	04/22/2013 14:05
CV0886B-CS-SP DL	680-89275-25 DL	1CD22011.D	04/22/2013 14:51

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab File ID: 1DD22005.D Lab Sample ID: MB 660-136604/1-A

Matrix: Solid Date Extracted: 04/18/2013 15:43

Instrument ID: BSMD5973 Date Analyzed: 04/22/2013 11:30

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136604/2-A	1DD22006.D	04/22/2013 11:53
CV0661A-CS-SP	680-89275-21	1DD22007.D	04/22/2013 12:15
CV0661A-CS-SP MS	680-89275-21 MS	1DD22008.D	04/22/2013 12:38
CV0661A-CS-SP MSD	680-89275-21 MSD	1DD22009.D	04/22/2013 13:00

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

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

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab File ID: 1CD17002.D DFTPP Injection Date: 04/17/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 10:01

Analysis Batch No.: 136590

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	58.3	
68	Less than 2.0 % of mass 69	1.3	(2.0)1
69	Mass 69 relative abundance	65.0	
70	Less than 2.0 % of mass 69	0.6	(0.9)1
127	10.0 - 80.0 % of mass 198	55.4	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.8	
275	10.0 - 60.0 % of mass 198	24.1	
365	Greater than 1.0 % of mass 198	4.2	
441	Present but less than mass 443	7.1	
442	Greater than 50.0 % of mass 198	52.8	
443	15.0 - 24.0 % of mass 442	12.4	(23.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136590/3	1CD17003.D	04/17/2013	10:18
	MB 660-136462/1-A	1CD17005.D	04/17/2013	10:54
	LCS 660-136462/2-A	1CD17006.D	04/17/2013	11:13
	680-89275-A-2-B MS	1CD17008.D	04/17/2013	11:49
	680-89275-A-2-C MSD	1CD17009.D	04/17/2013	12:08
CV0661B-CS-SP	680-89275-22	1CD17026.D	04/17/2013	17:19
CV0661C-CS-SP	680-89275-23	1CD17027.D	04/17/2013	17:38

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab File ID: 1CD19002.D DFTPP Injection Date: 04/19/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:08

Analysis Batch No.: 136655

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	44.8	
68	Less than 2.0 % of mass 69	0.9	(1.9)1
69	Mass 69 relative abundance	46.0	
70	Less than 2.0 % of mass 69	0.5	(1.0)1
127	10.0 - 80.0 % of mass 198	47.6	
197	Less than 2.0 % of mass 198	1.2	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.5	
275	10.0 - 60.0 % of mass 198	22.6	
365	Greater than 1.0 % of mass 198	6.6	
441	Present but less than mass 443	12.1	
442	Greater than 50.0 % of mass 198	73.9	
443	15.0 - 24.0 % of mass 442	13.9	(18.8)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136655/3	1CD19003.D	04/19/2013	11:24
	MB 660-136551/1-A	1CD19012.D	04/19/2013	14:23
	LCS 660-136551/2-A	1CD19013.D	04/19/2013	14:42
	680-89220-A-41-B MS	1CD19019.D	04/19/2013	16:39
	680-89220-A-41-C MSD	1CD19020.D	04/19/2013	16:57

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab File ID: 1CD22002.D DFTPP Injection Date: 04/22/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:33

Analysis Batch No.: 136698

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	59.9	
68	Less than 2.0 % of mass 69	1.1	(1.9)1
69	Mass 69 relative abundance	60.9	
70	Less than 2.0 % of mass 69	0.7	(1.1)1
127	10.0 - 80.0 % of mass 198	56.3	
197	Less than 2.0 % of mass 198	0.7	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.8	
275	10.0 - 60.0 % of mass 198	28.5	
365	Greater than 1.0 % of mass 198	6.9	
441	Present but less than mass 443	11.8	
442	Greater than 50.0 % of mass 198	72.8	
443	15.0 - 24.0 % of mass 442	15.2	(20.8)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136698/3	1CD22003.D	04/22/2013	11:50
CV0886B-CS-SP	680-89275-25	1CD22009.D	04/22/2013	14:05
CV0886B-CS-SP DL	680-89275-25 DL	1CD22011.D	04/22/2013	14:51

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab File ID: 1DD04003.D DFTPP Injection Date: 04/04/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 12:15

Analysis Batch No.: 136164

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	44.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	45.4	
70	Less than 2.0 % of mass 69	0.2	(0.3)1
127	10.0 - 80.0 % of mass 198	50.5	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.9	
275	10.0 - 60.0 % of mass 198	26.7	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	3.3	
442	Greater than 50.0 % of mass 198	67.1	
443	15.0 - 24.0 % of mass 442	13.9	(20.6)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-136164/15	1DD04007.D	04/04/2013	13:49
	IC 660-136164/16	1DD04008.D	04/04/2013	14:11
	IC 660-136164/17	1DD04009.D	04/04/2013	14:34
	IC 660-136164/18	1DD04010.D	04/04/2013	14:57
	ICIS 660-136164/19	1DD04011.D	04/04/2013	15:19
	IC 660-136164/20	1DD04012.D	04/04/2013	15:42
	IC 660-136164/21	1DD04013.D	04/04/2013	16:04
	ICV 660-136164/22	1DD04014.D	04/04/2013	16:27

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab File ID: 1DD18005.D DFTPP Injection Date: 04/18/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 13:43

Analysis Batch No.: 136591

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	47.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	46.5	
70	Less than 2.0 % of mass 69	0.3	(0.7)1
127	10.0 - 80.0 % of mass 198	47.8	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.7	
275	10.0 - 60.0 % of mass 198	26.2	
365	Greater than 1.0 % of mass 198	2.6	
441	Present but less than mass 443	8.6	
442	Greater than 50.0 % of mass 198	59.3	
443	15.0 - 24.0 % of mass 442	12.2	(20.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136591/7	1DD18006.D	04/18/2013	14:03
CV0886A-CS-SP	680-89275-24	1DD18008.D	04/18/2013	14:50
CV0886A-CS-SP DL	680-89275-24 DL	1DD18009.D	04/18/2013	15:19
CV0886A-CS-SP DL2	680-89275-24 DL2	1DD18010.D	04/18/2013	15:48

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab File ID: 1DD22002.D DFTPP Injection Date: 04/22/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 10:26

Analysis Batch No.: 136733

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	47.0	
68	Less than 2.0 % of mass 69	0.2	(0.4)1
69	Mass 69 relative abundance	45.5	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	49.7	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.0	
275	10.0 - 60.0 % of mass 198	26.8	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	0.7	
442	Greater than 50.0 % of mass 198	74.0	
443	15.0 - 24.0 % of mass 442	15.0	(20.3)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136733/3	1DD22003.D	04/22/2013	10:43
	MB 660-136604/1-A	1DD22005.D	04/22/2013	11:30
	LCS 660-136604/2-A	1DD22006.D	04/22/2013	11:53
CV0661A-CS-SP	680-89275-21	1DD22007.D	04/22/2013	12:15
CV0661A-CS-SP MS	680-89275-21 MS	1DD22008.D	04/22/2013	12:38
CV0661A-CS-SP MSD	680-89275-21 MSD	1DD22009.D	04/22/2013	13:00

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

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

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.: 680-89275-2

SDG No.: 68089275-2

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		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Sample No.: CCVIS 660-136590/3 Date Analyzed: 04/17/2013 10:18

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

Lab File ID (Standard): 1CD17003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		240478	3.66	150375	4.75	295718	5.70
UPPER LIMIT		480956	4.16	300750	5.25	591436	6.20
LOWER LIMIT		120239	3.16	75188	4.25	147859	5.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136462/1-A		254213	3.66	165374	4.75	306935	5.69
LCS 660-136462/2-A		268152	3.66	186703	4.75	330770	5.69
680-89275-A-2-B MS		362237	3.66	252903	4.75	460657	5.70
680-89275-A-2-C MSD		350766	3.67	234568	4.75	428425	5.70
680-89275-22	CV0661B-CS-SP	354282	3.67	241034	4.76	419353	5.70
680-89275-23	CV0661C-CS-SP	348175	3.67	236688	4.76	429492	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.: 680-89275-2

SDG No.: 68089275-2

Sample No.: CCVIS 660-136590/3 Date Analyzed: 04/17/2013 10:18

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

Lab File ID (Standard): 1CD17003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		362821	7.63	379421	8.78		
UPPER LIMIT		725642	8.13	758842	9.28		
LOWER LIMIT		181411	7.13	189711	8.28		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136462/1-A		368107	7.63	383045	8.78		
LCS 660-136462/2-A		411865	7.63	415510	8.78		
680-89275-A-2-B MS		538817	7.63	516343	8.79		
680-89275-A-2-C MSD		496833	7.63	456609	8.79		
680-89275-22	CV0661B-CS-SP	455089	7.63	431970	8.79		
680-89275-23	CV0661C-CS-SP	474403	7.63	455137	8.79		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Sample No.: CCVIS 660-136655/3 Date Analyzed: 04/19/2013 11:24

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

Lab File ID (Standard): 1CD19003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		187771	3.66	127904	4.74	242114	5.69
UPPER LIMIT		375542	4.16	255808	5.24	484228	6.19
LOWER LIMIT		93886	3.16	63952	4.24	121057	5.19
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136551/1-A		211094	3.66	141041	4.75	261212	5.69
LCS 660-136551/2-A		191532	3.66	127190	4.74	236731	5.69
680-89220-A-41-B MS		214315	3.66	156773	4.74	278425	5.69
680-89220-A-41-C MSD		234812	3.66	166333	4.75	324473	5.69

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.: 680-89275-2

SDG No.: 68089275-2

Sample No.: CCVIS 660-136655/3 Date Analyzed: 04/19/2013 11:24

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

Lab File ID (Standard): 1CD19003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		311596	7.62	321703	8.77		
UPPER LIMIT		623192	8.12	643406	9.27		
LOWER LIMIT		155798	7.12	160852	8.27		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136551/1-A		295504	7.62	333814	8.79		
LCS 660-136551/2-A		297661	7.62	312222	8.77		
680-89220-A-41-B MS		345195	7.62	316003	8.77		
680-89220-A-41-C MSD		375136	7.62	361282	8.77		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Sample No.: CCVIS 660-136698/3 Date Analyzed: 04/22/2013 11:50

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

Lab File ID (Standard): 1CD22003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		177233	3.65	115325	4.74	215585	5.68
UPPER LIMIT		354466	4.15	230650	5.24	431170	6.18
LOWER LIMIT		88617	3.15	57663	4.24	107793	5.18
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-89275-25	CV0886B-CS-SP	223015	3.65	154136	4.74	285956	5.69
680-89275-25 DL	CV0886B-CS-SP DL	240709	3.65	162777	4.74	306661	5.68

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.: 680-89275-2

SDG No.: 68089275-2

Sample No.: CCVIS 660-136698/3 Date Analyzed: 04/22/2013 11:50

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

Lab File ID (Standard): 1CD22003.D Heated Purge: (Y/N) N

Calibration ID: 2882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		268224	7.62	275000	8.76		
UPPER LIMIT		536448	8.12	550000	9.26		
LOWER LIMIT		134112	7.12	137500	8.26		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-89275-25	CV0886B-CS-SP	396524	7.63	359199	8.80		
680-89275-25 DL	CV0886B-CS-SP DL	406882	7.62	402903	8.77		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N

Calibration ID: 2874

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

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 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.: 680-89275-2

SDG No.: 68089275-2

Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N

Calibration ID: 2874

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

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 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.: 680-89275-2

SDG No.: 68089275-2

Sample No.: CCVIS 660-136591/7 Date Analyzed: 04/18/2013 14:03

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DD18006.D Heated Purge: (Y/N) N

Calibration ID: 2874

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2616608	6.06	1662048	7.74	2746064	9.00
UPPER LIMIT		5233216	6.56	3324096	8.24	5492128	9.50
LOWER LIMIT		1308304	5.56	831024	7.24	1373032	8.50
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-89275-24	CV0886A-CS-SP	2641571	6.06	1736742	7.74	3251692	9.03
680-89275-24 DL	CV0886A-CS-SP DL	2682975	6.07	1700383	7.74	2861742	9.01
680-89275-24 DL2	CV0886A-CS-SP DL2	2743655	6.06	1731962	7.74	2947931	9.01

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.: 680-89275-2

SDG No.: 68089275-2

Sample No.: CCVIS 660-136591/7 Date Analyzed: 04/18/2013 14:03

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DD18006.D Heated Purge: (Y/N) N

Calibration ID: 2874

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2986677	11.31	3037301	13.13		
UPPER LIMIT		5973354	11.81	6074602	13.63		
LOWER LIMIT		1493339	10.81	1518651	12.63		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-89275-24	CV0886A-CS-SP	4116470	11.40	3585367	13.25		
680-89275-24 DL	CV0886A-CS-SP DL	3457290	11.34	3309078	13.17		
680-89275-24 DL2	CV0886A-CS-SP DL2	3205922	11.32	3238290	13.14		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Sample No.: CCVIS 660-136733/3 Date Analyzed: 04/22/2013 10:43

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DD22003.D Heated Purge: (Y/N) N

Calibration ID: 2874

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1796455	6.05	1037513	7.73	1775352	9.00
UPPER LIMIT		3592910	6.55	2075026	8.23	3550704	9.50
LOWER LIMIT		898228	5.55	518757	7.23	887676	8.50
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136604/1-A		2232943	6.06	1323504	7.74	2206229	8.99
LCS 660-136604/2-A		1931895	6.05	1141255	7.74	1907584	8.99
680-89275-21	CV0661A-CS-SP	1886672	6.05	1121534	7.73	1866589	9.00
680-89275-21 MS	CV0661A-CS-SP MS	2093932	6.05	1246507	7.74	2071815	9.00
680-89275-21 MSD	CV0661A-CS-SP MSD	1863685	6.06	1105330	7.74	1822597	9.00

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.: 680-89275-2

SDG No.: 68089275-2

Sample No.: CCVIS 660-136733/3 Date Analyzed: 04/22/2013 10:43

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DD22003.D Heated Purge: (Y/N) N

Calibration ID: 2874

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1817611	11.31	1852984	13.12		
UPPER LIMIT		3635222	11.81	3705968	13.62		
LOWER LIMIT		908806	10.81	926492	12.62		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136604/1-A		2159386	11.30	2217702	13.12		
LCS 660-136604/2-A		1920971	11.30	1914100	13.12		
680-89275-21	CV0661A-CS-SP	1941519	11.31	2194048	13.13		
680-89275-21 MS	CV0661A-CS-SP MS	2259125	11.31	2571607	13.15		
680-89275-21 MSD	CV0661A-CS-SP MSD	2040070	11.32	2299548	13.15		

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.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: CV0661A-CS-SP | Lab Sample ID: 680-89275-21

Matrix: Solid | Lab File ID: 1DD22007.D

Analysis Method: 8270C LL | Date Collected: 04/10/2013 08:55

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.39(g) | Date Analyzed: 04/22/2013 12:15

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

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

% Moisture: 25.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	27	J	130	26
208-96-8	Acenaphthylene	320		52	6.5
120-12-7	Anthracene	250		11	5.5
56-55-3	Benzo[a]anthracene	860		10	5.1
50-32-8	Benzo[a]pyrene	870		14	6.8
205-99-2	Benzo[b]fluoranthene	1500		16	7.9
191-24-2	Benzo[g,h,i]perylene	790		26	5.7
207-08-9	Benzo[k]fluoranthene	480		10	4.7
218-01-9	Chrysene	980		12	5.9
53-70-3	Dibenz(a,h)anthracene	240		26	5.3
206-44-0	Fluoranthene	1400	F	26	5.2
86-73-7	Fluorene	45		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	690		26	9.2
90-12-0	1-Methylnaphthalene	130		52	5.7
91-57-6	2-Methylnaphthalene	170		52	9.2
91-20-3	Naphthalene	280		52	5.7
85-01-8	Phenanthrene	600		10	5.1
129-00-0	Pyrene	1000		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22007.D
Lab Smp Id: 680-89275-A-21-A Client Smp ID: CV0661A-CS-SP
Inj Date : 22-APR-2013 12:15
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89275-A-21-A
Misc Info : 680-89275-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	Weight Extracted
M	25.104	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.052	6.054	(1.000)	1886672	40.0000	
* 6 Acenaphthene-d10	164	7.732	7.734	(1.000)	1121534	40.0000	
* 9 Phenanthrene-d10	188	8.996	8.998	(1.000)	1866589	40.0000	
$ 13 o-Terphenyl	230	9.307	9.309	(1.035)	156787	5.57473	480
* 17 Chrysene-d12	240	11.310	11.307	(1.000)	1941519	40.0000	
* 22 Perylene-d12	264	13.132	13.122	(1.000)	2194048	40.0000	
2 Naphthalene	128	6.075	6.077	(1.004)	150479	3.20890	280
3 2-Methylnaphthalene	142	6.780	6.783	(1.120)	59526	1.96639	170
4 1-Methylnaphthalene	142	6.874	6.877	(1.136)	41218	1.44184	120
5 Acenaphthylene	152	7.609	7.611	(0.984)	177140	3.73177	320
7 Acenaphthene	154	7.762	7.764	(1.004)	9181	0.31334	27
8 Fluorene	166	8.202	8.204	(1.061)	17844	0.51427	45
10 Phenanthrene	178	9.013	9.015	(1.002)	352933	6.86445	600
11 Anthracene	178	9.054	9.056	(1.007)	147910	2.89847	250

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.195	9.197	(1.022)	50143	1.11399	97
14 Fluoranthene	202	10.000	10.002	(1.112)	875902	16.5552	1400
15 Pyrene	202	10.188	10.184	(0.901)	693413	11.8931	1000
16 Benzo(a)anthracene	228	11.293	11.289	(0.998)	555673	9.89919	860
18 Chrysene	228	11.334	11.330	(1.002)	594122	11.2880	980
19 Benzo(b)fluoranthene	252	12.597	12.582	(0.959)	974711	17.7842	1500
20 Benzo(k)fluoranthene	252	12.621	12.623	(0.961)	317571	5.49999	480
21 Benzo(a)pyrene	252	13.038	13.034	(0.993)	550385	9.99444	870
23 Indeno(1,2,3-cd)pyrene	276	14.718	14.709	(1.121)	467588	7.96302	690(M)
24 Dibenzo(a,h)anthracene	278	14.736	14.732	(1.122)	153216	2.77085	240
25 Benzo(g,h,i)perylene	276	15.165	15.143	(1.155)	512654	9.06723	790

QC Flag Legend

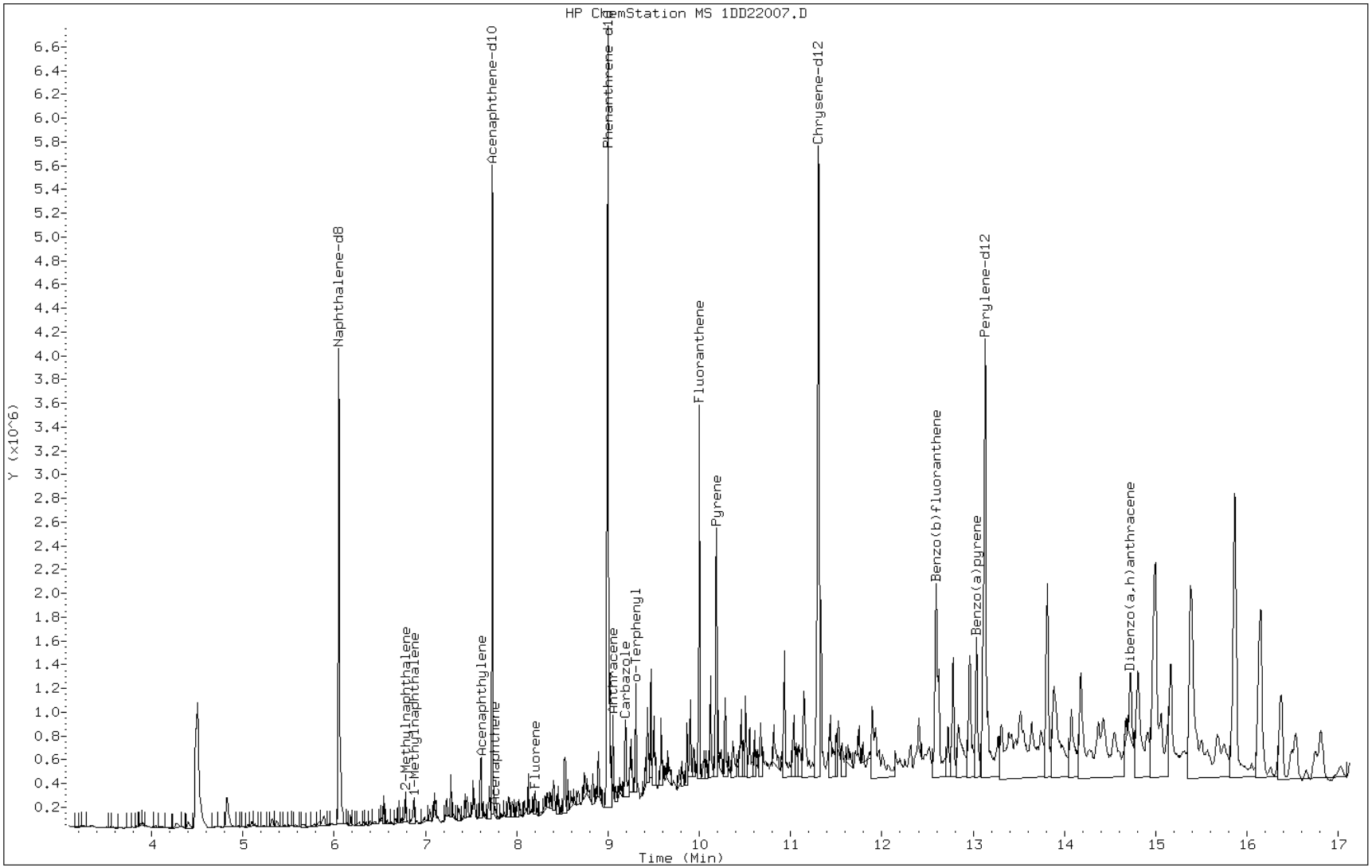
M - Compound response manually integrated.

Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC



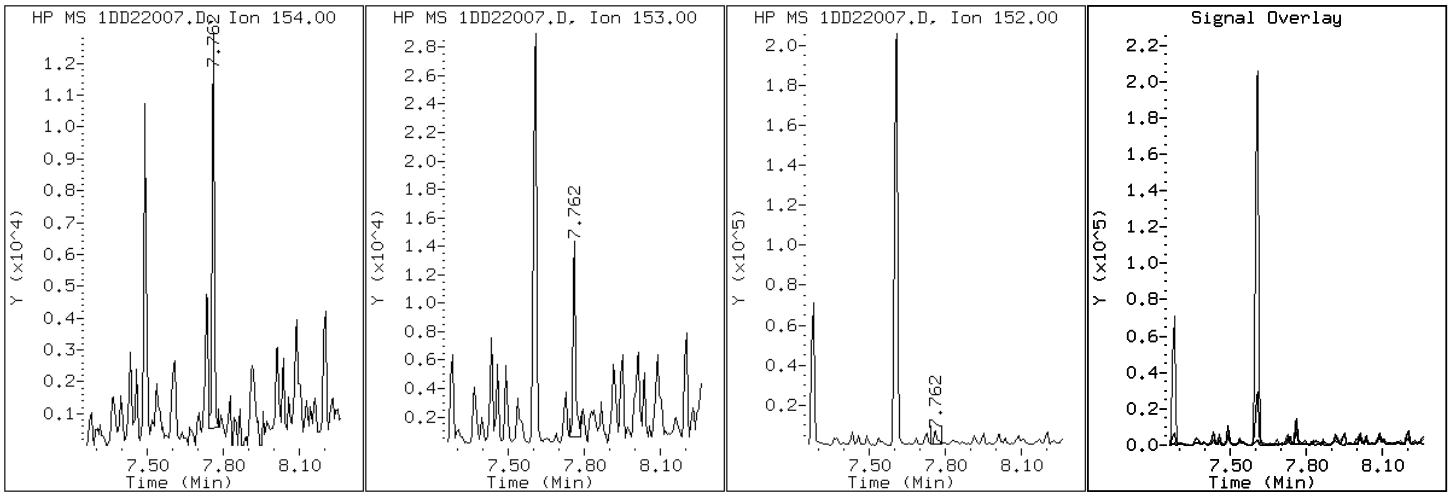
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

7 Acenaphthene



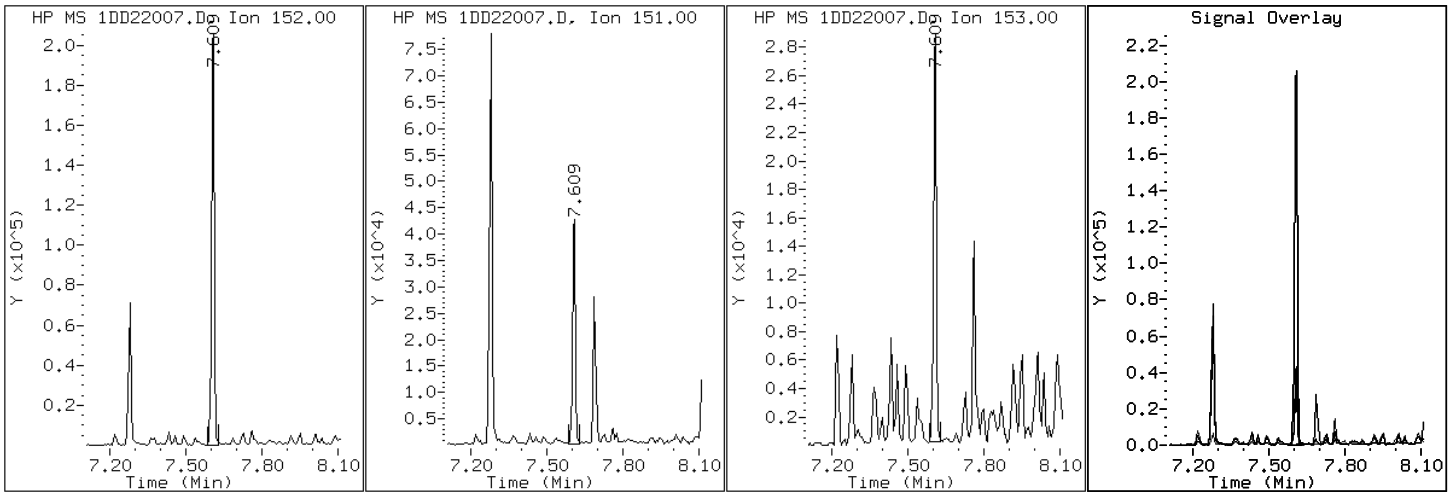
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

5 Acenaphthylene



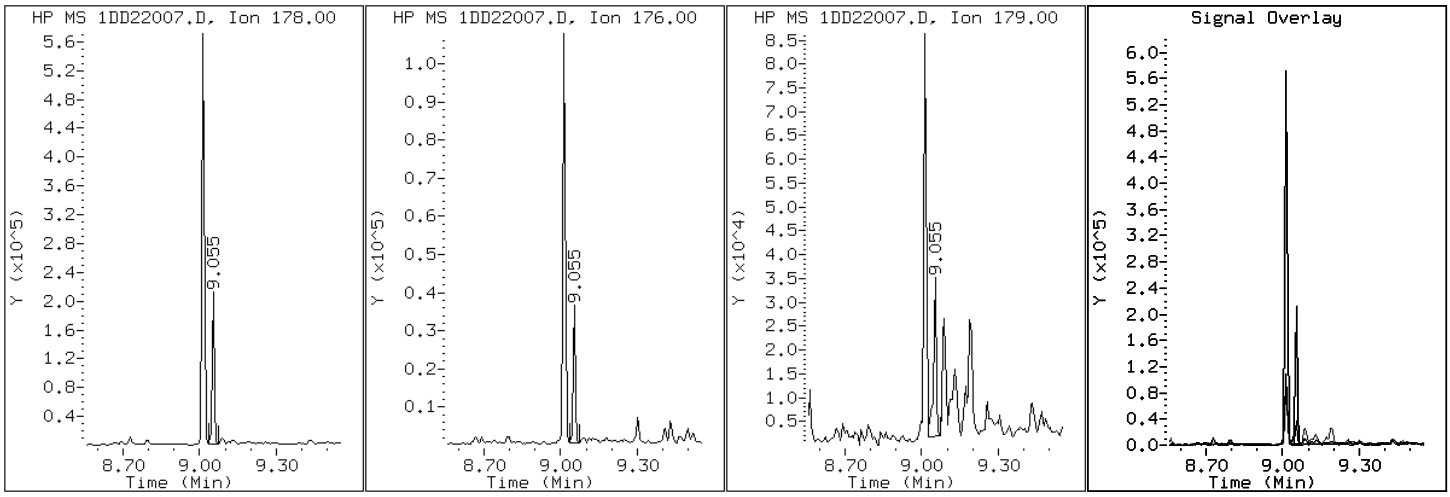
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

11 Anthracene



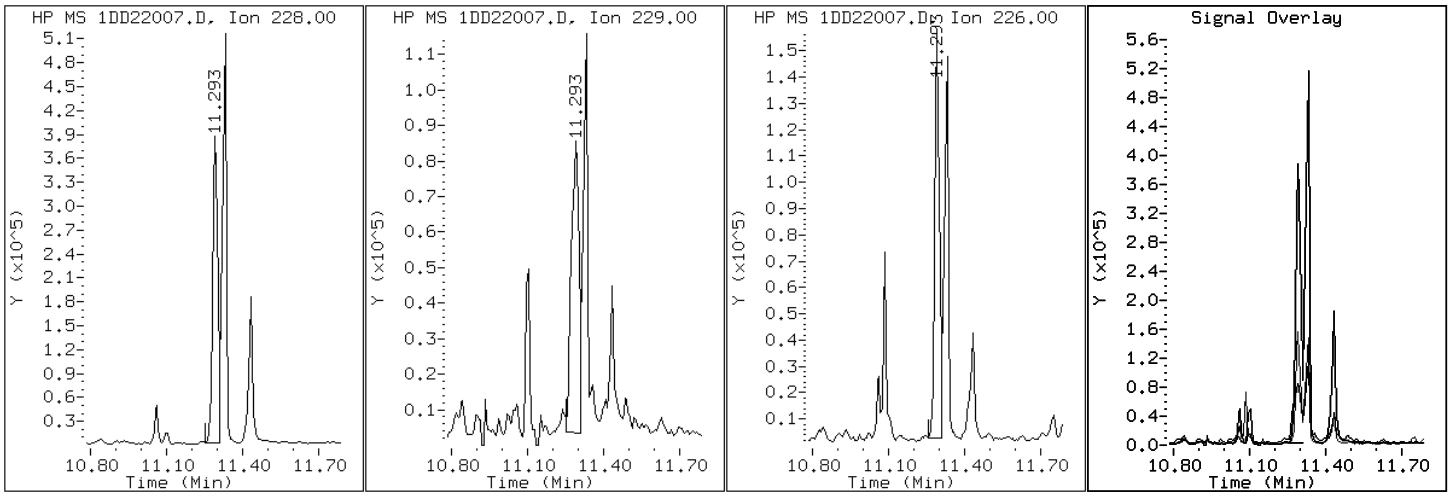
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

16 Benzo(a)anthracene



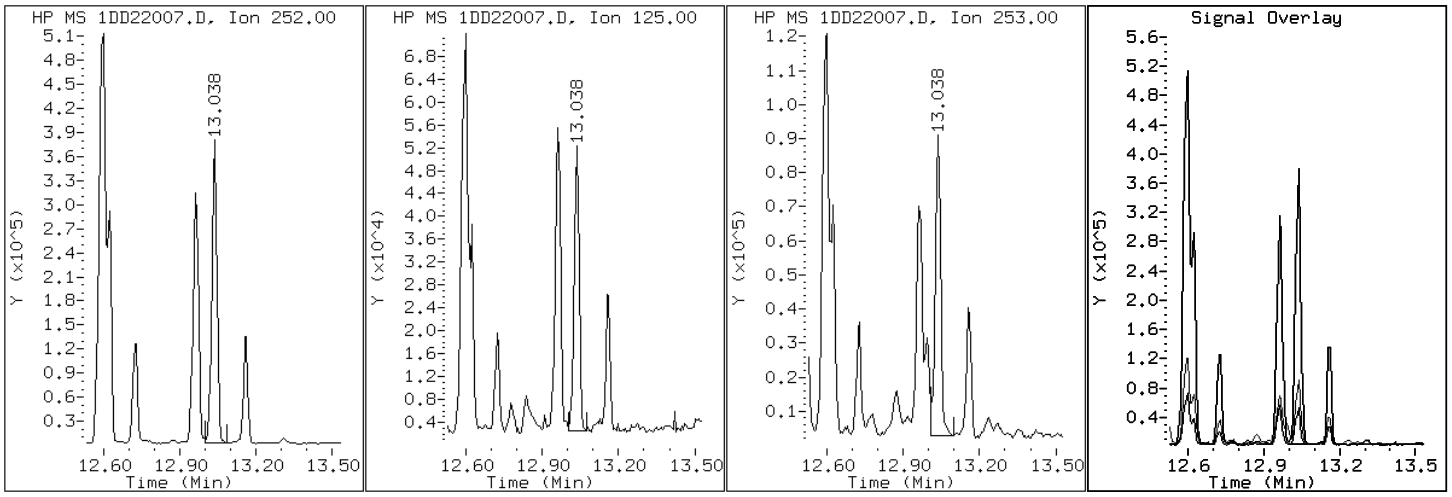
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

21 Benzo(a)pyrene



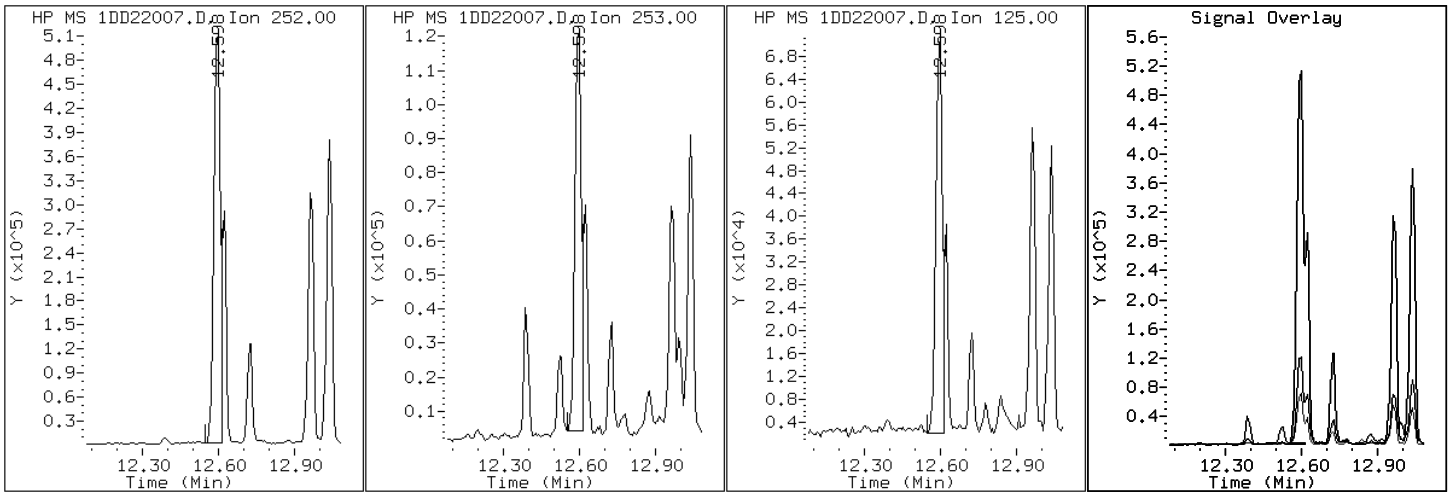
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

19 Benzo(b)fluoranthene



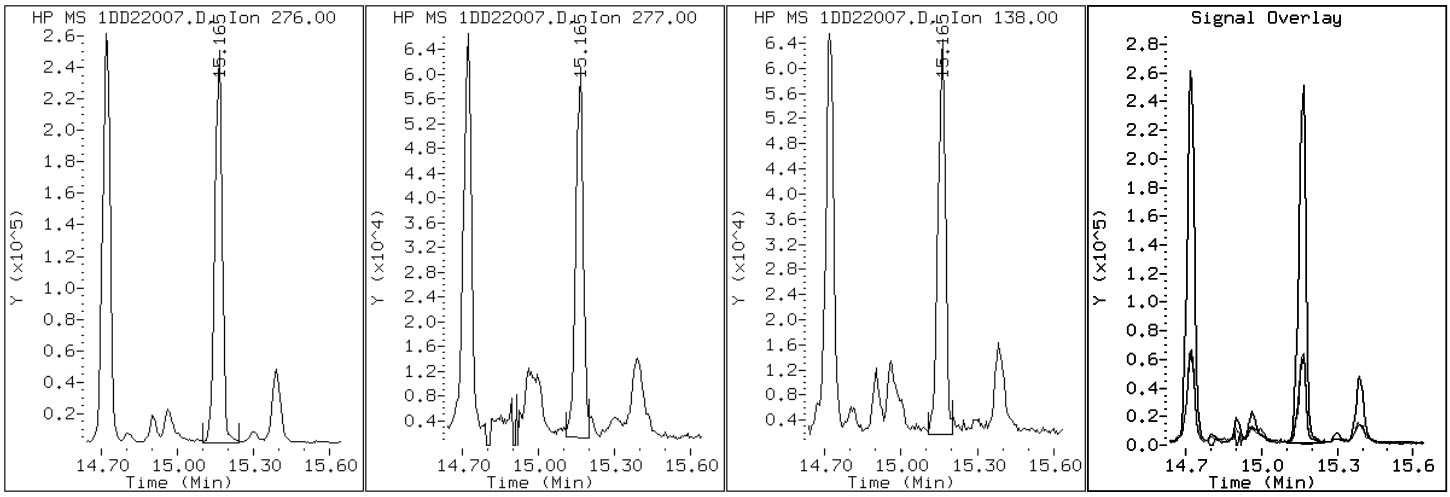
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

25 Benzo(g,h,i)perylene



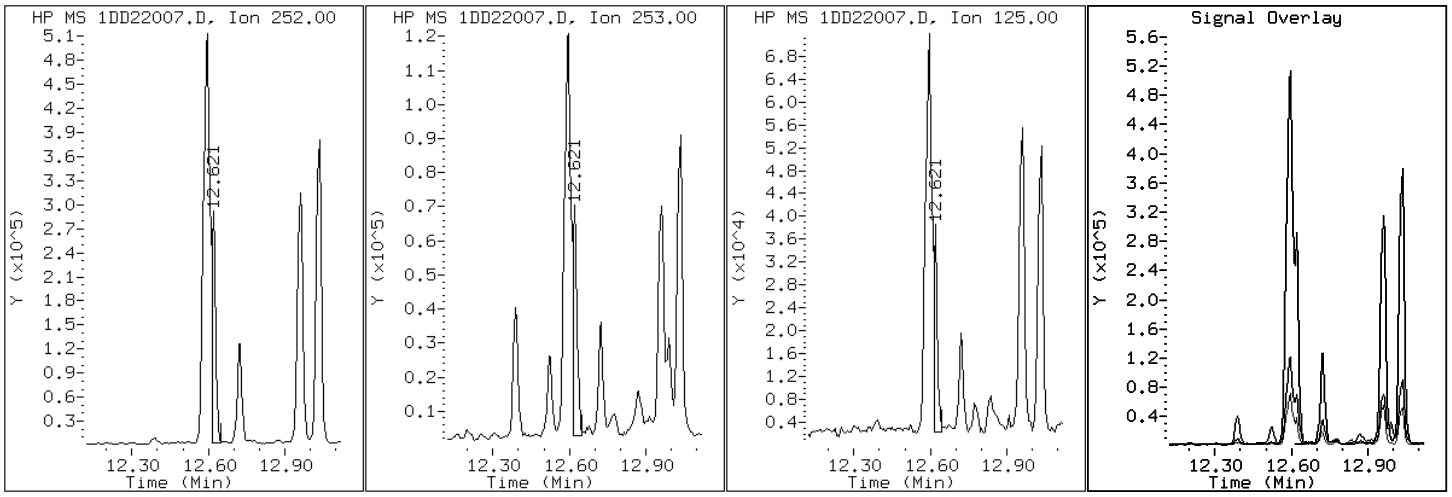
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

20 Benzo(k)fluoranthene



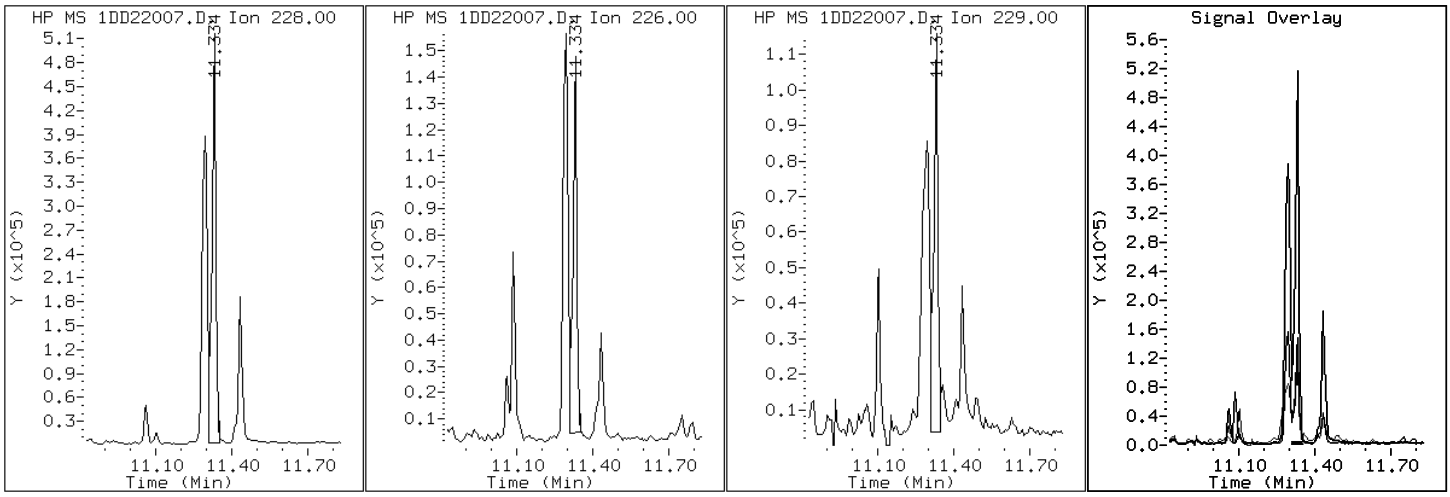
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

18 Chrysene



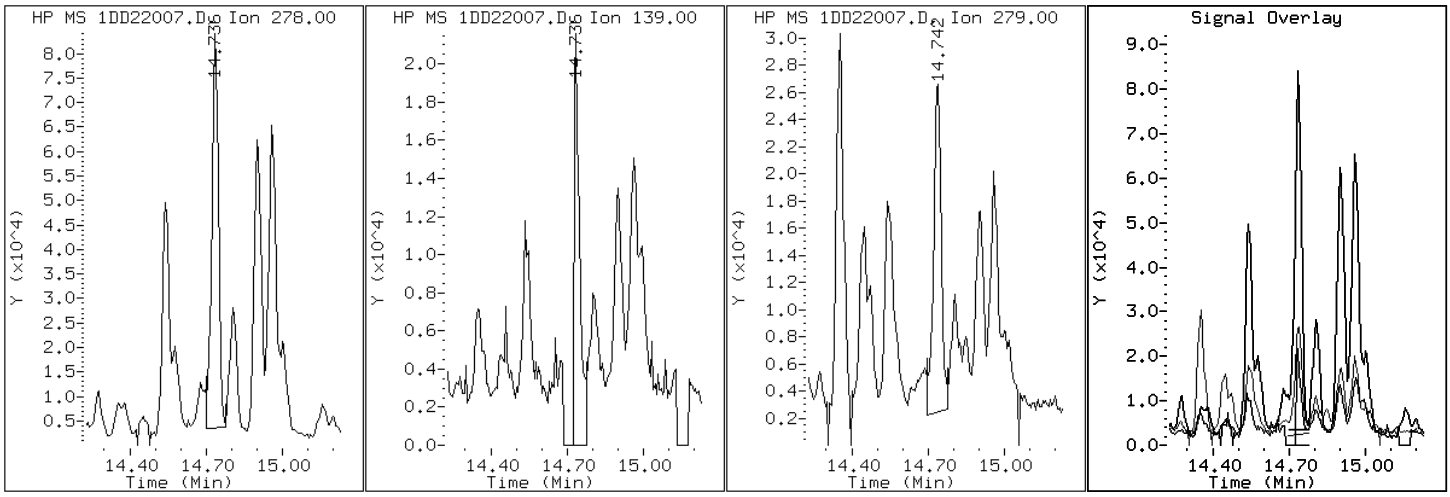
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

24 Dibenzo(a,h)anthracene



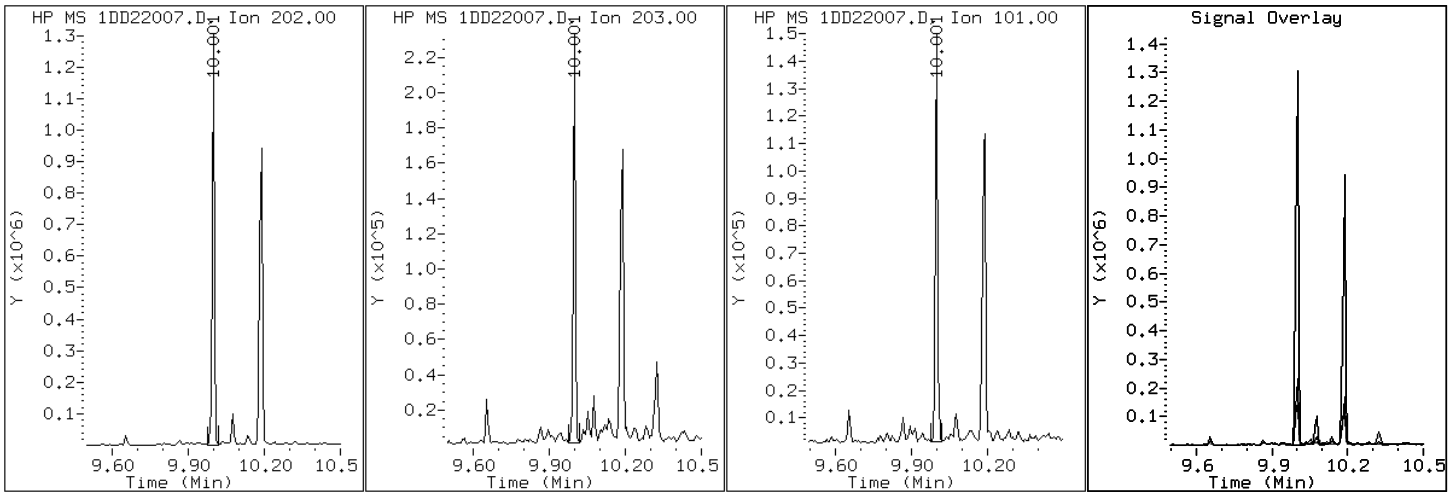
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

14 Fluoranthene



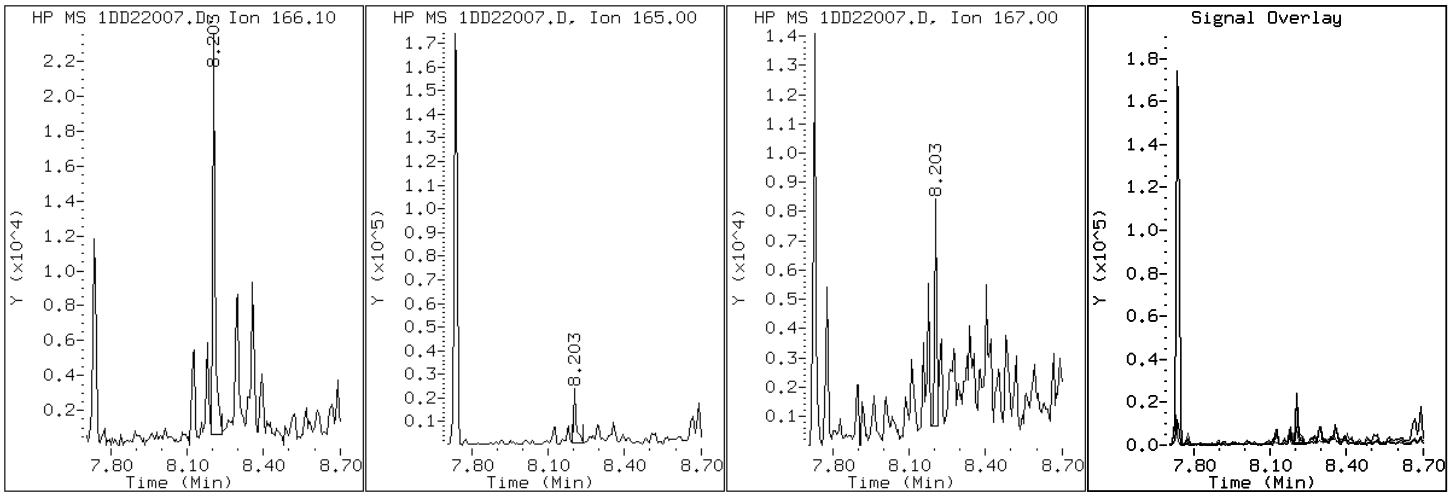
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

8 Fluorene



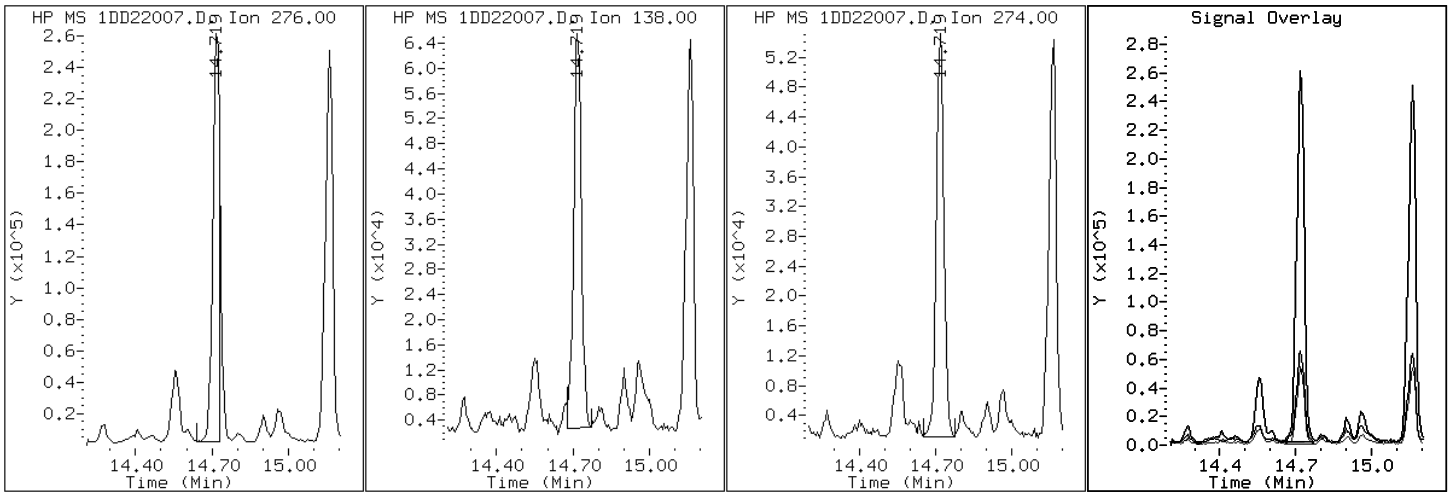
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

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



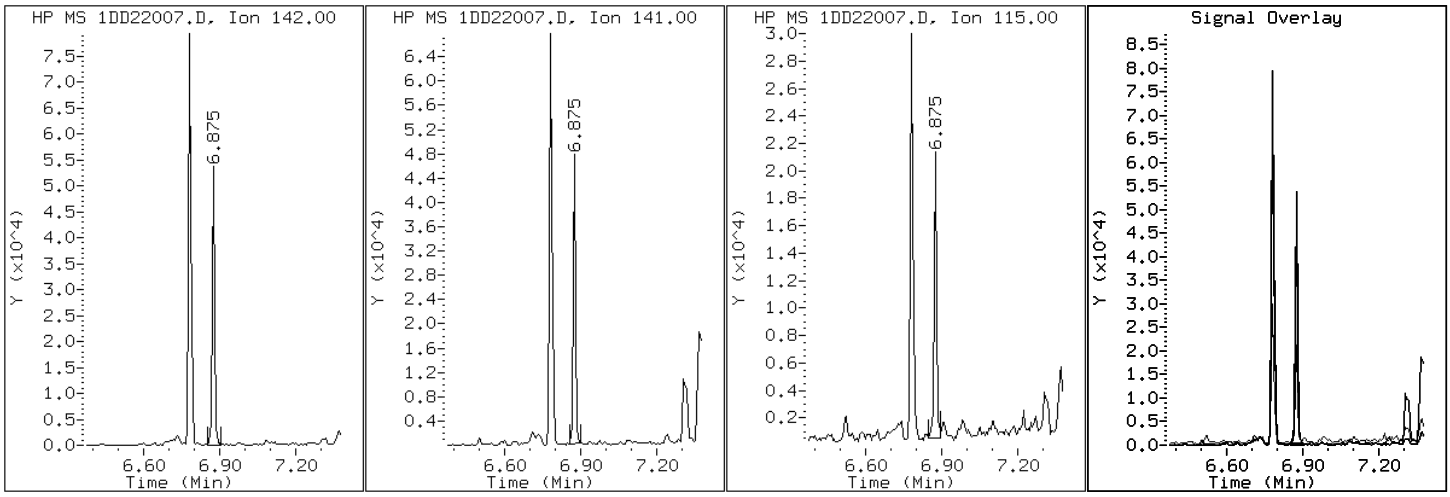
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

4 1-Methylnaphthalene



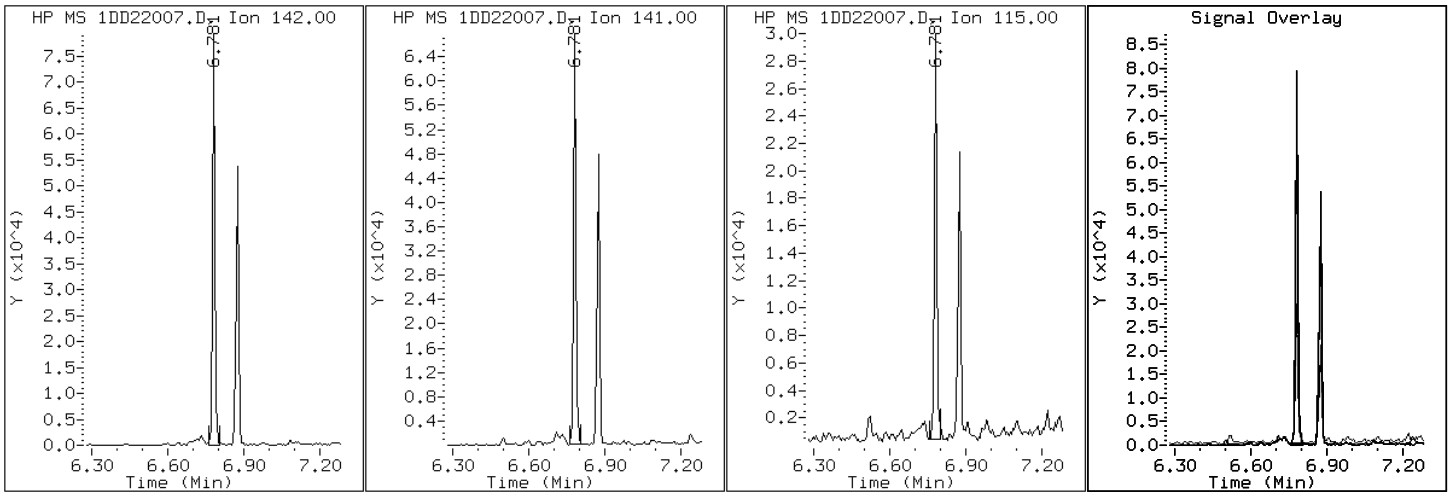
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

3 2-Methylnaphthalene



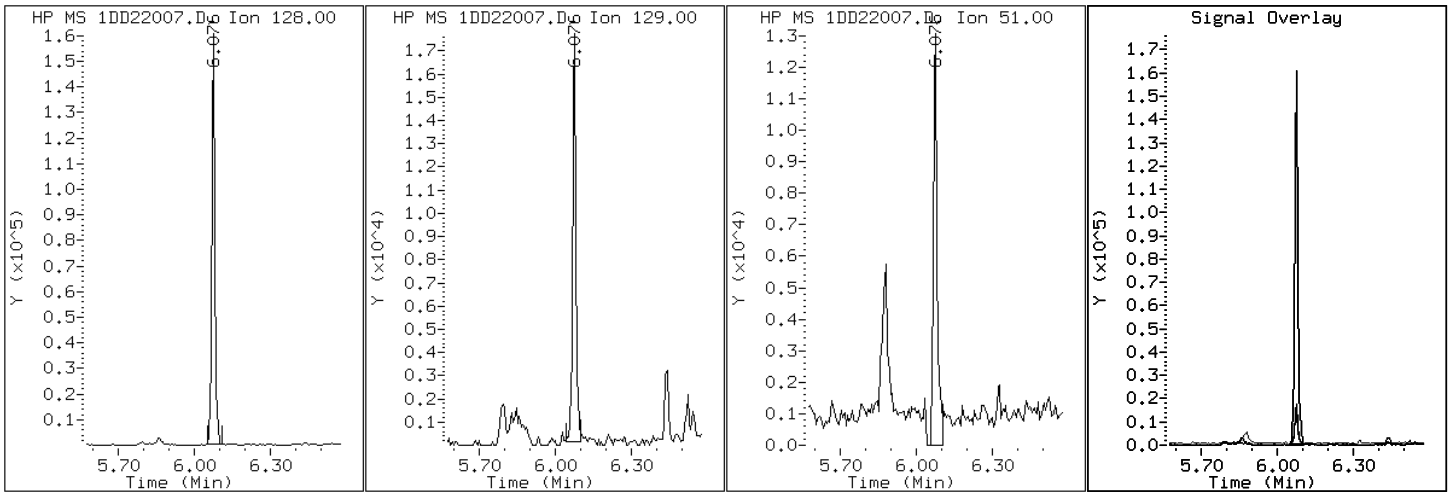
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

2 Naphthalene



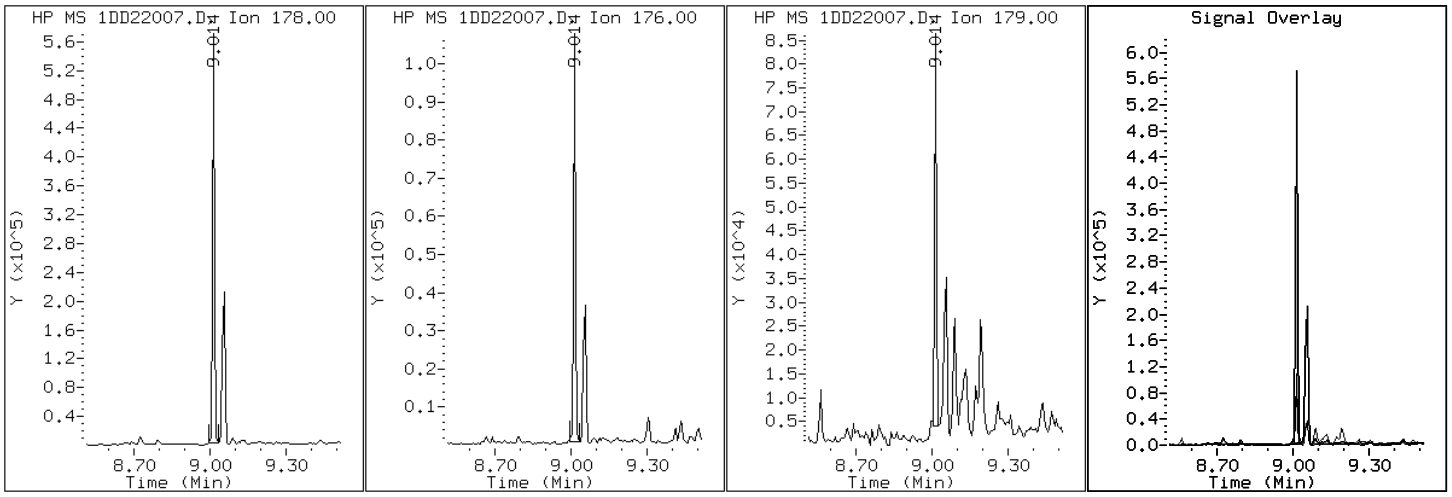
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

10 Phenanthrene



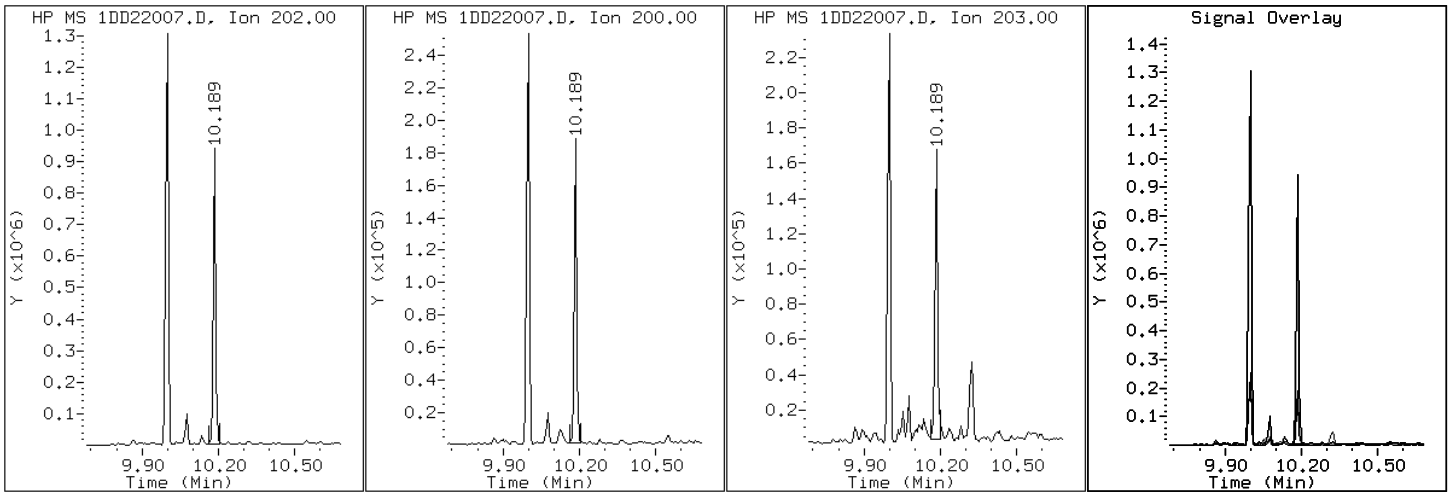
Data File: 1DD22007.D

Date: 22-APR-2013 12:15

Client ID: CV0661A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-21-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD22007.D
Inj. Date and Time: 22-APR-2013 12:15
Instrument ID: BSMSD.i
Client ID: CV0661A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

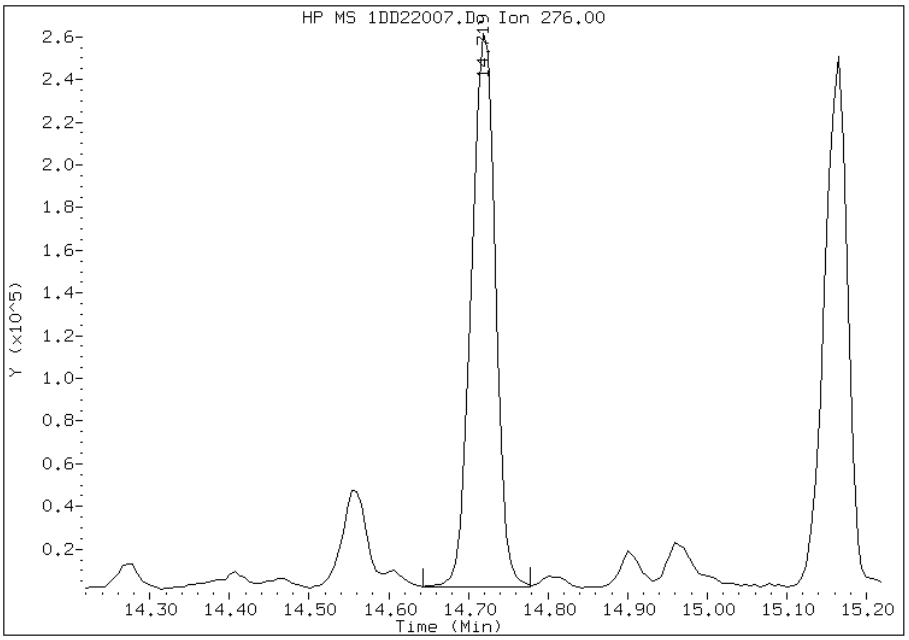
Processing Integration Results

RT: 14.72

Response: 541629

Amount: 9

Conc: 800



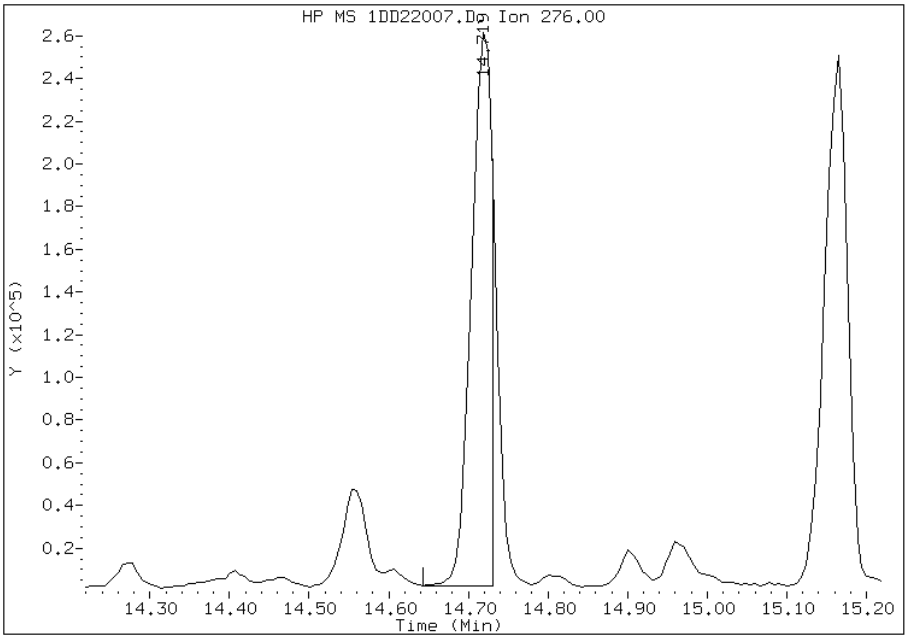
Manual Integration Results

RT: 14.72

Response: 467588

Amount: 8

Conc: 691



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: CV0661B-CS-SP | Lab Sample ID: 680-89275-22

Matrix: Solid | Lab File ID: 1CD17026.D

Analysis Method: 8270C LL | Date Collected: 04/10/2013 09:15

Extract. Method: 3546 | Date Extracted: 04/16/2013 07:00

Sample wt/vol: 14.98(g) | Date Analyzed: 04/17/2013 17:19

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

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

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136590 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	210		200	25
120-12-7	Anthracene	240		43	21
56-55-3	Benzo[a]anthracene	1400		41	20
50-32-8	Benzo[a]pyrene	1100		53	27
205-99-2	Benzo[b]fluoranthene	1800		62	31
191-24-2	Benzo[g,h,i]perylene	700		100	22
207-08-9	Benzo[k]fluoranthene	600		41	18
218-01-9	Chrysene	1400		46	23
53-70-3	Dibenz(a,h)anthracene	440		100	21
206-44-0	Fluoranthene	2400		100	20
86-73-7	Fluorene	60	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	740		100	36
90-12-0	1-Methylnaphthalene	220		200	22
91-57-6	2-Methylnaphthalene	320		200	36
91-20-3	Naphthalene	190	J	200	22
85-01-8	Phenanthrene	1600		41	20
129-00-0	Pyrene	2200		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17026.D
Lab Smp Id: 680-89275-A-22-A Client Smp ID: CV0661B-CS-SP
Inj Date : 17-APR-2013 17:19
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89275-a-22-a
Misc Info : 680-89275-A-22-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m
Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 26
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	21.412	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.668	3.663	(1.000)	354282	40.0000	
* 6 Acenaphthene-d10	164	4.757	4.751	(1.000)	241034	40.0000	
* 10 Phenanthrene-d10	188	5.698	5.698	(1.000)	419353	40.0000	
$ 14 o-Terphenyl	230	5.945	5.945	(1.043)	7336	1.74606	593.2666
* 18 Chrysene-d12	240	7.633	7.627	(1.000)	455089	40.0000	
* 23 Perylene-d12	264	8.792	8.780	(1.000)	431970	40.0000	
2 Naphthalene	128	3.680	3.680	(1.003)	5479	0.57211	194.3890
3 2-Methylnaphthalene	142	4.104	4.104	(1.119)	4284	0.94158	319.9239
4 1-Methylnaphthalene	142	4.168	4.168	(1.136)	4017	0.65666	223.1173
5 Acenaphthylene	152	4.668	4.663	(0.981)	6448	0.63132	214.5066
9 Fluorene	166	5.092	5.092	(1.070)	1385	0.17682	60.0790(QH)
11 Phenanthrene	178	5.715	5.709	(1.003)	59060	4.80448	1632.4379
12 Anthracene	178	5.745	5.745	(1.008)	8719	0.71618	243.3404
13 Carbazole	167	5.857	5.851	(1.028)	10443	0.92102	312.9392

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.545	6.545	(1.149)	97448	7.16324	2433.8852
16 Pyrene	202	6.715	6.709	(0.880)	82845	6.39888	2174.1740
17 Benzo(a)anthracene	228	7.627	7.621	(0.999)	53331	4.14414	1408.0715
19 Chrysene	228	7.651	7.651	(1.002)	52745	4.14314	1407.7334
20 Benzo(b)fluoranthene	252	8.456	8.450	(0.962)	56433	5.17238	1757.4407(M)
21 Benzo(k)fluoranthene	252	8.474	8.468	(0.964)	21689	1.75679	596.9139(M)
22 Benzo(a)pyrene	252	8.739	8.733	(0.994)	35764	3.17114	1077.4707
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.903	(1.127)	17140	2.16915	737.0226(M)
25 Dibenzo(a,h)anthracene	278	9.921	9.915	(1.128)	9492	1.30514	443.4527(MH)
26 Benzo(g,h,i)perylene	276	10.250	10.233	(1.166)	21798	2.06208	700.6408

QC Flag Legend

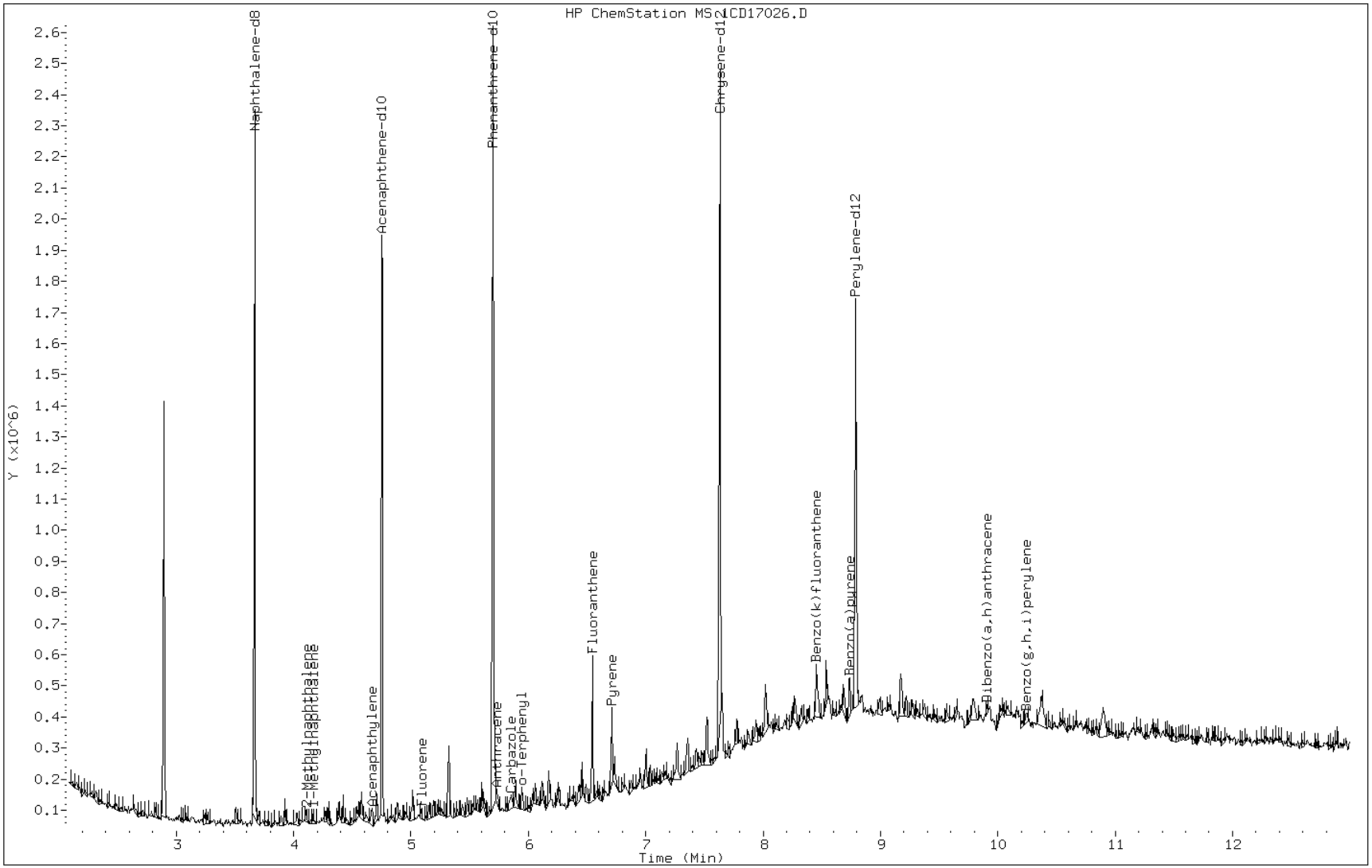
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC



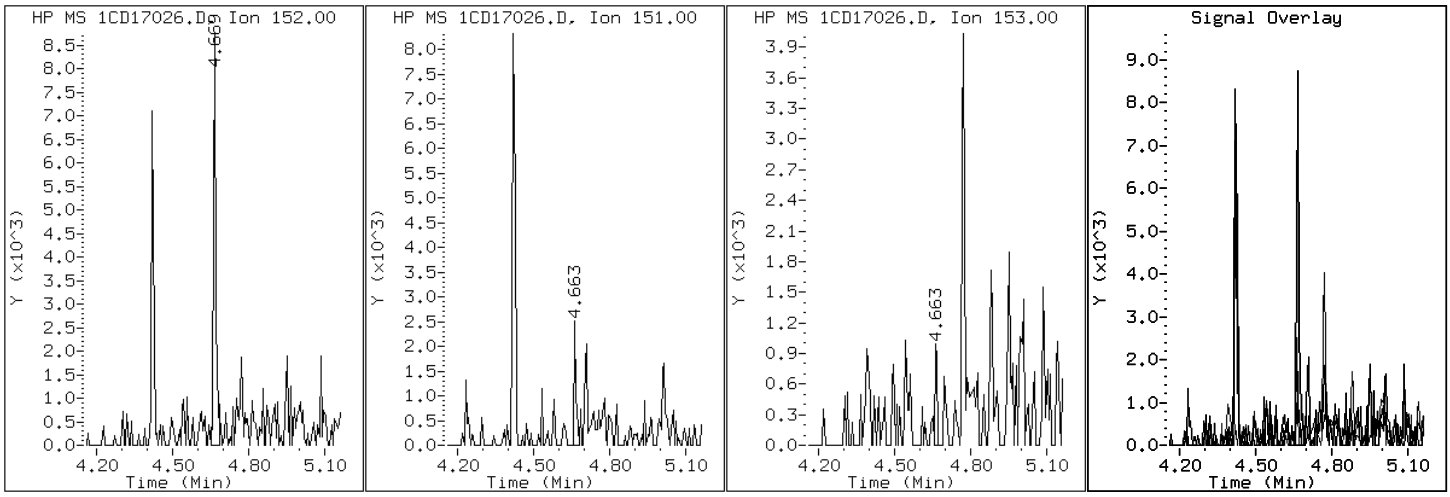
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

5 Acenaphthylene



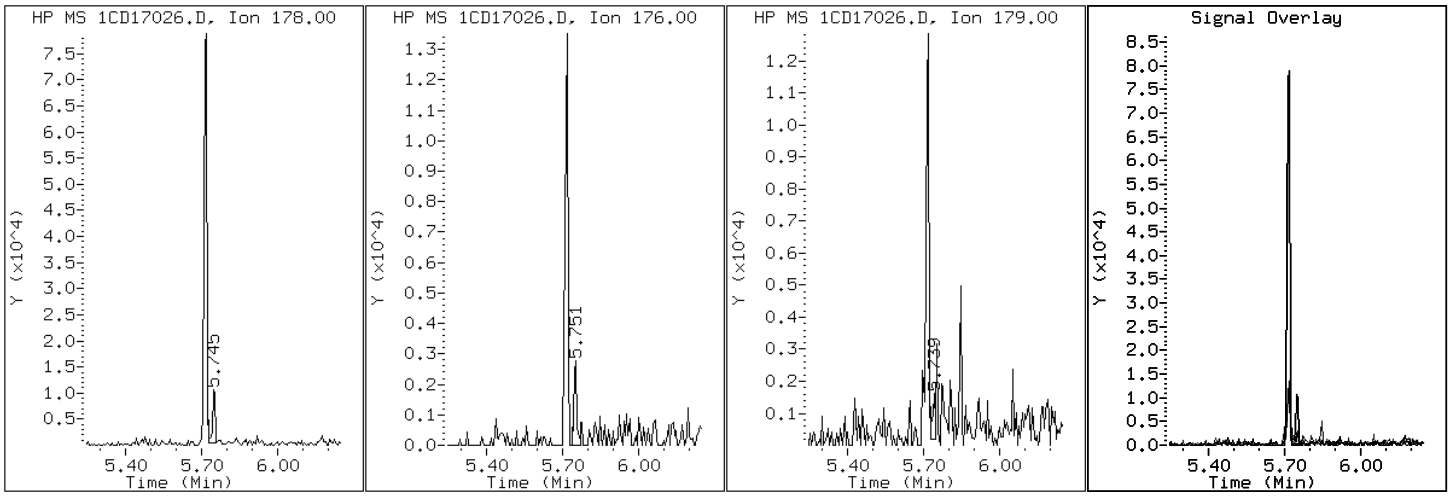
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

12 Anthracene



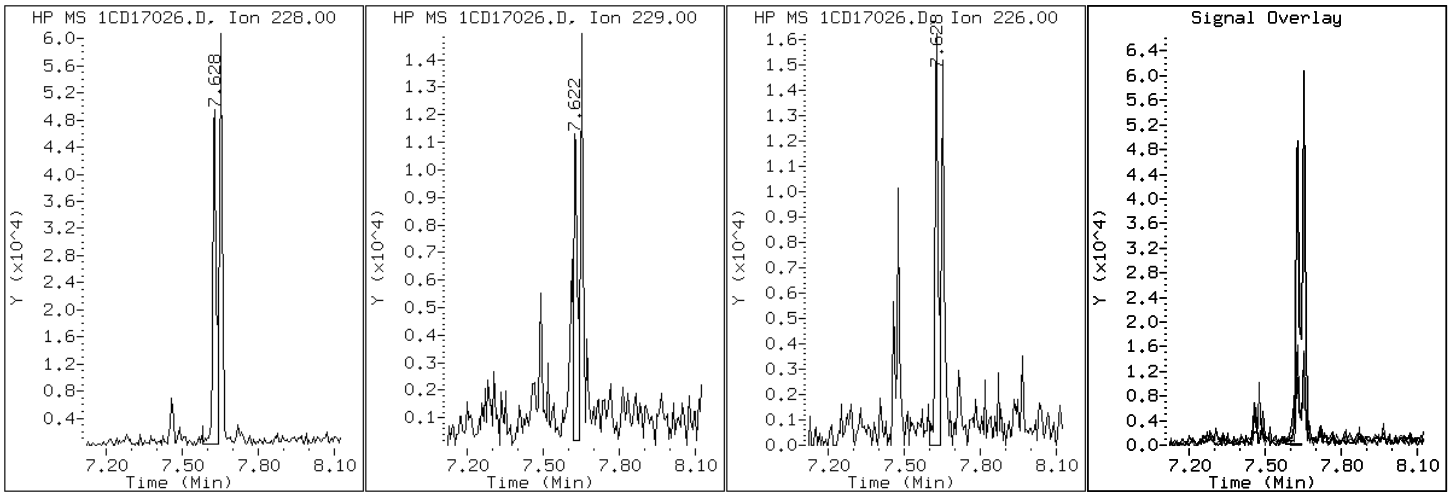
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

17 Benzo(a)anthracene



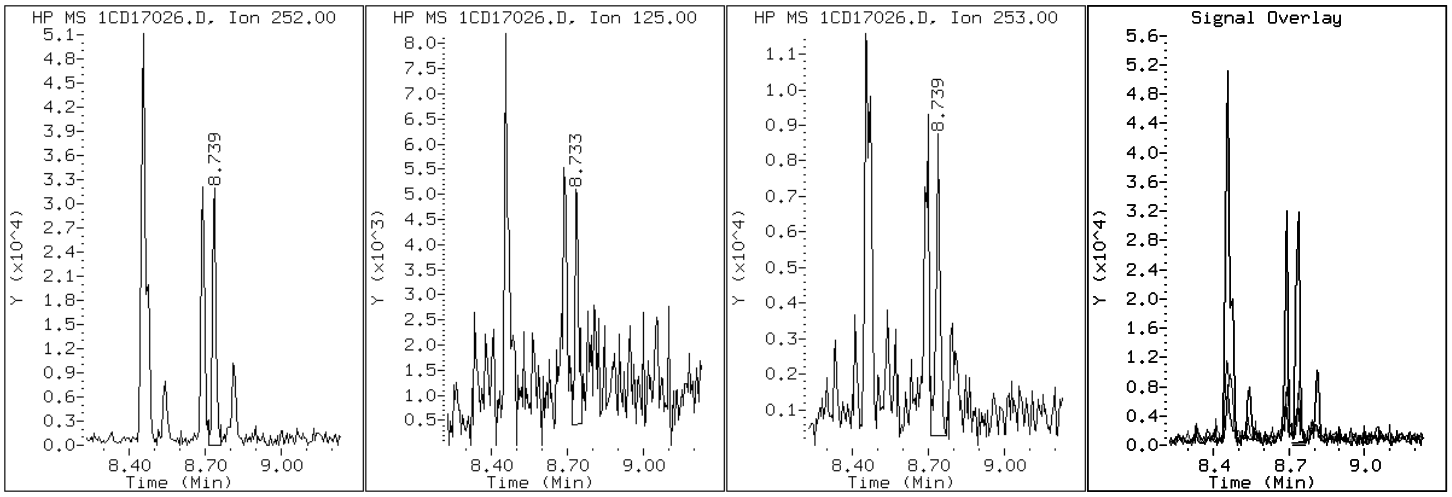
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

22 Benzo(a)pyrene



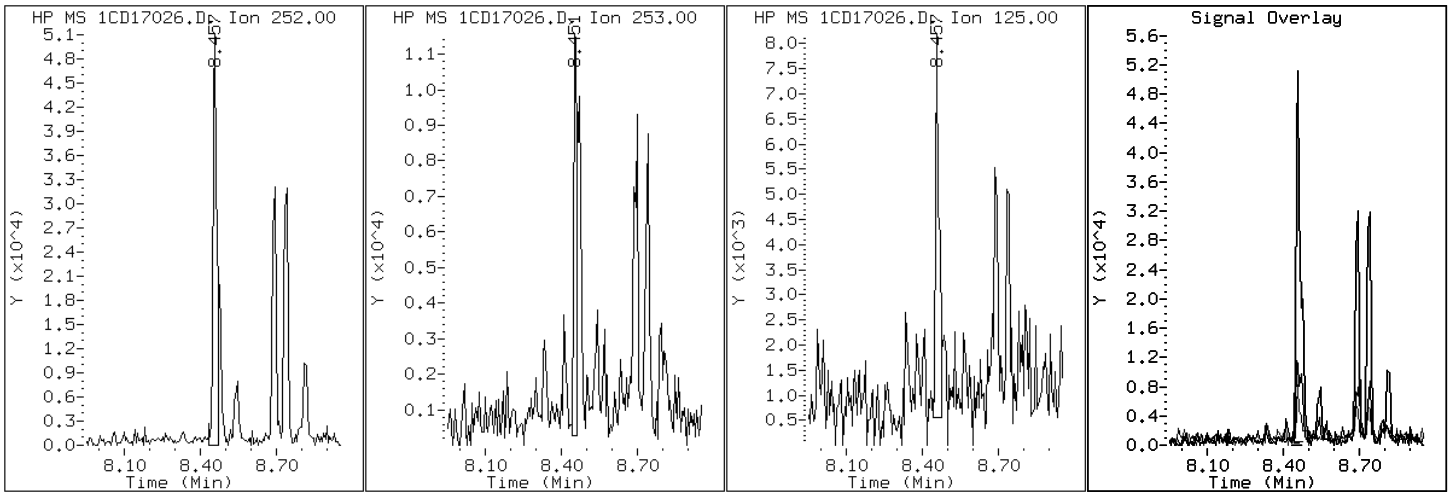
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

20 Benzo(b)fluoranthene



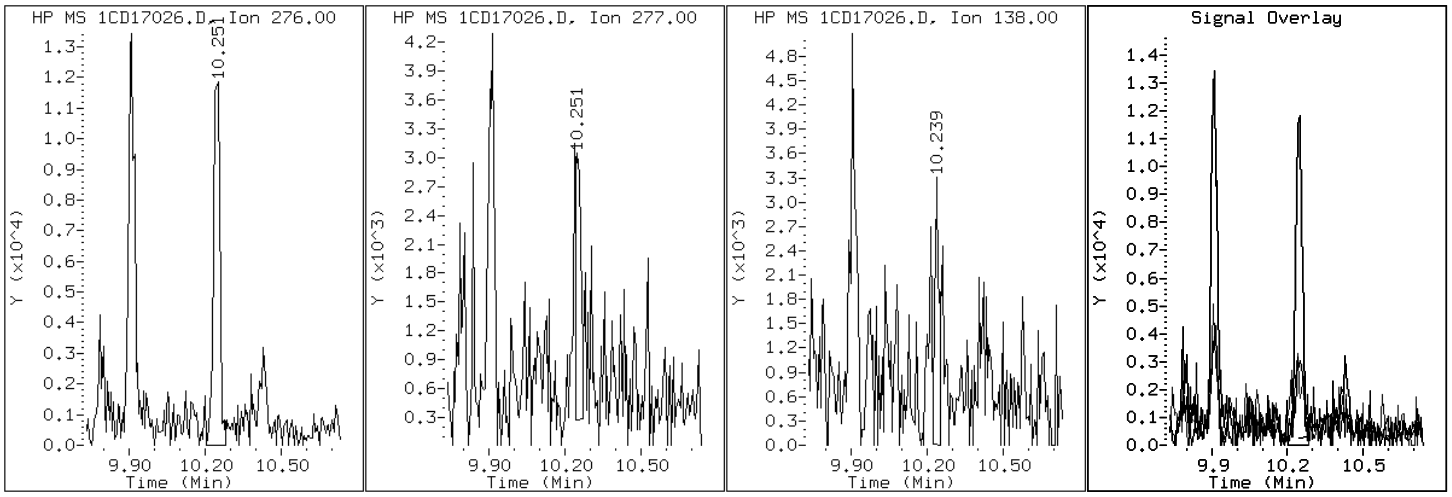
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

26 Benzo(g,h,i)perylene



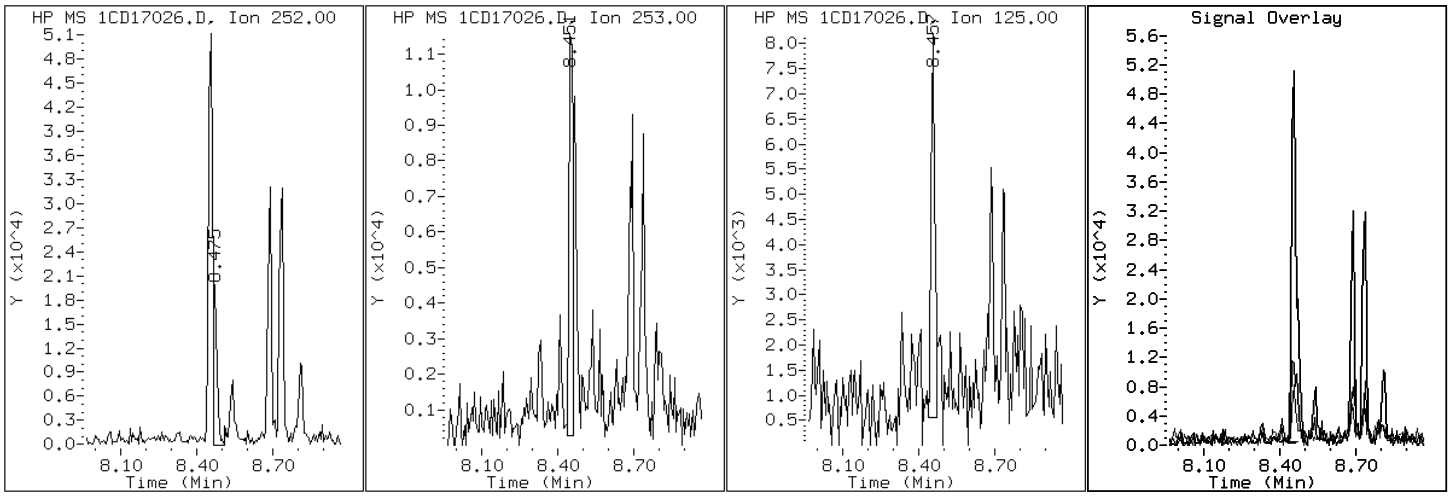
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

21 Benzo(k)fluoranthene



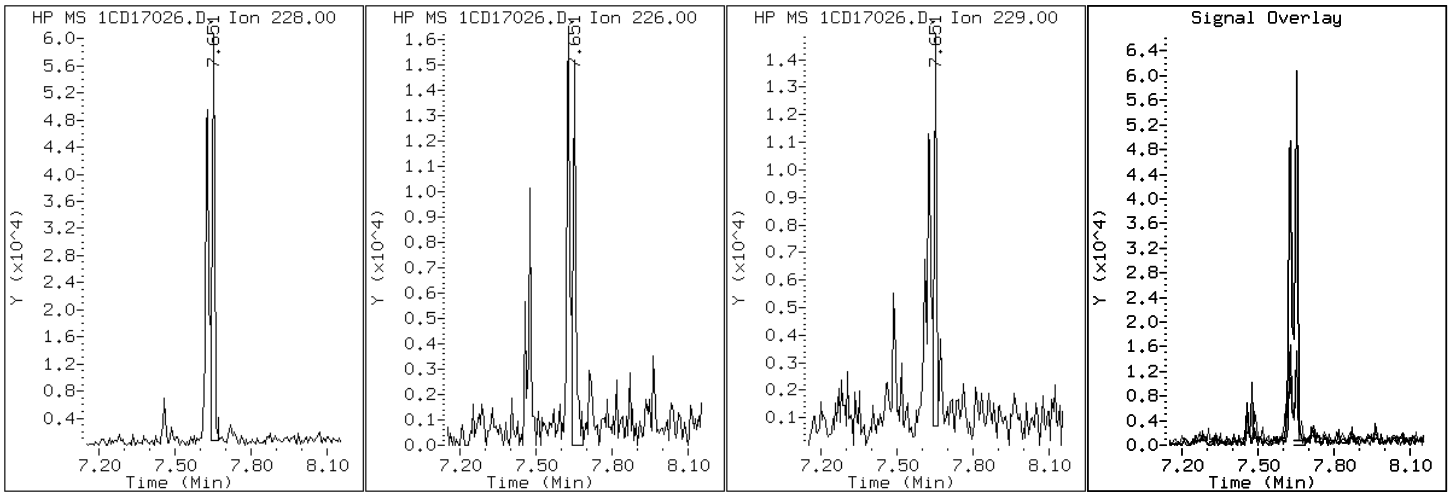
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

19 Chrysene



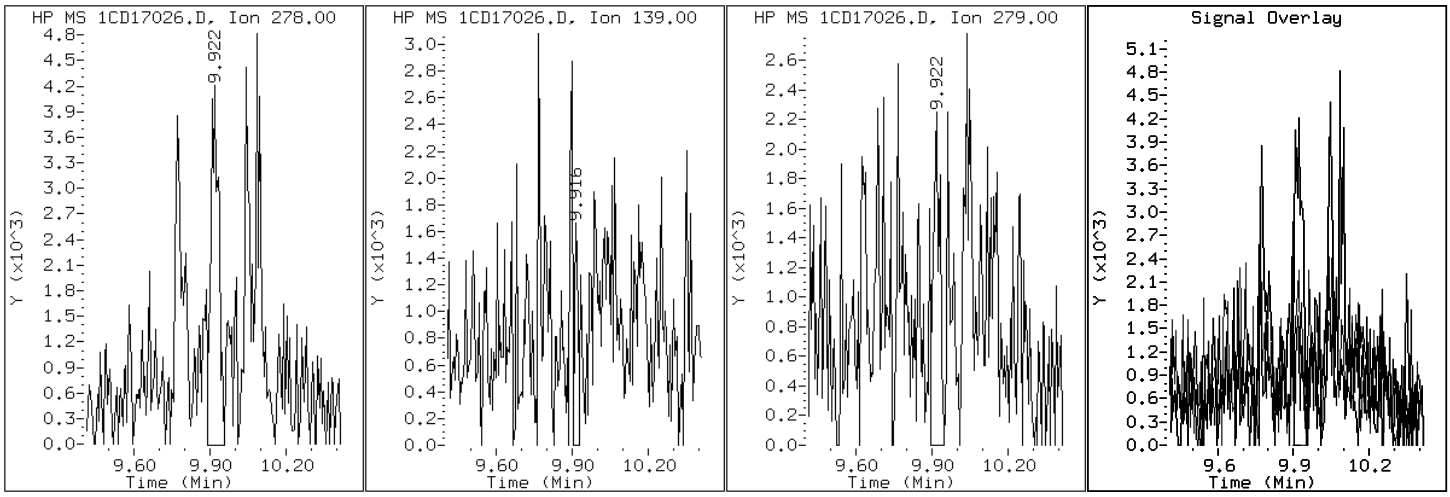
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

25 Dibenzo(a,h)anthracene



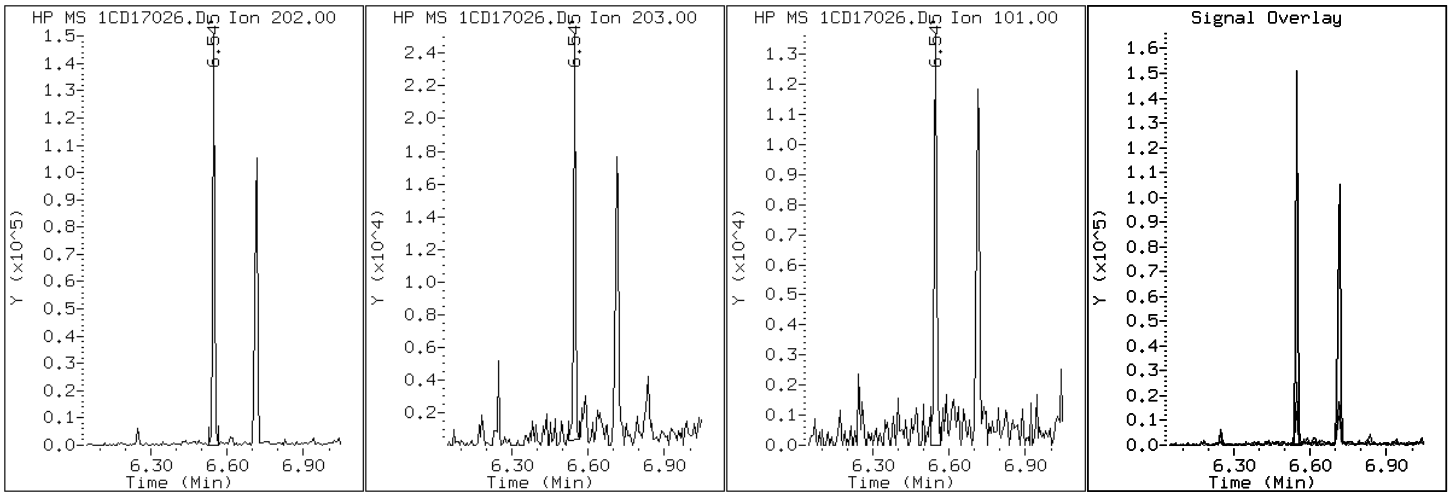
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

15 Fluoranthene



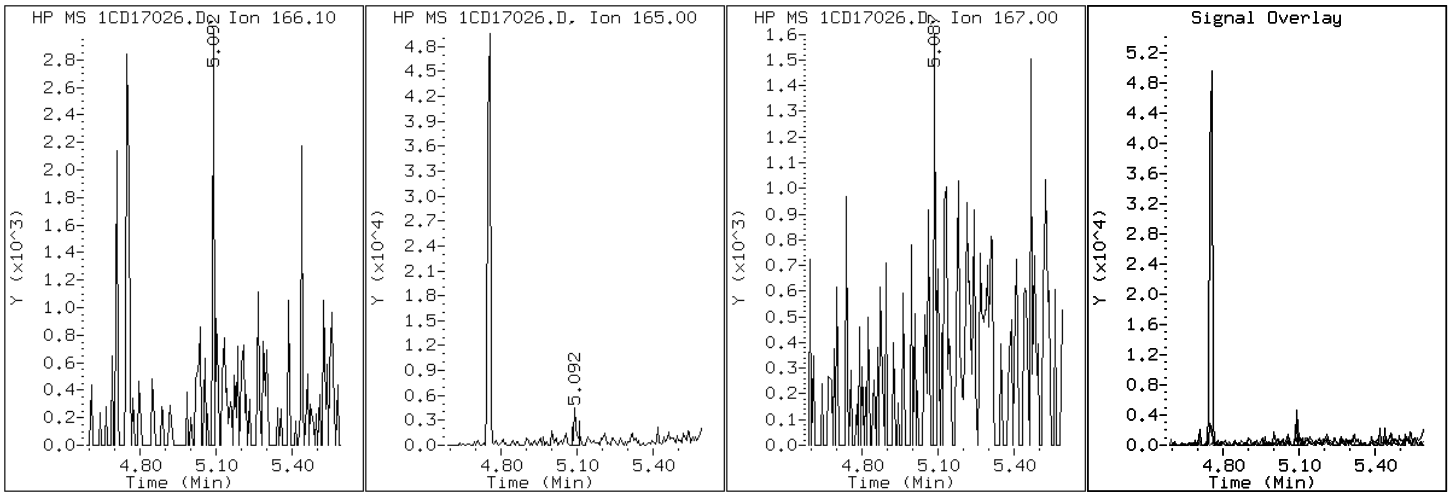
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

9 Fluorene



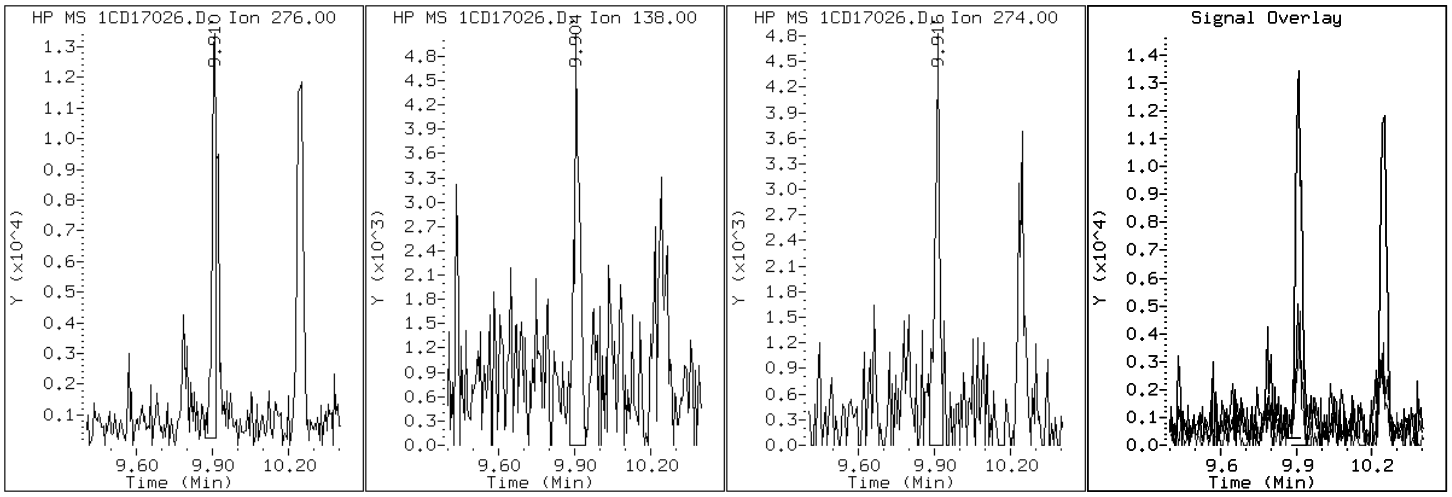
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

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



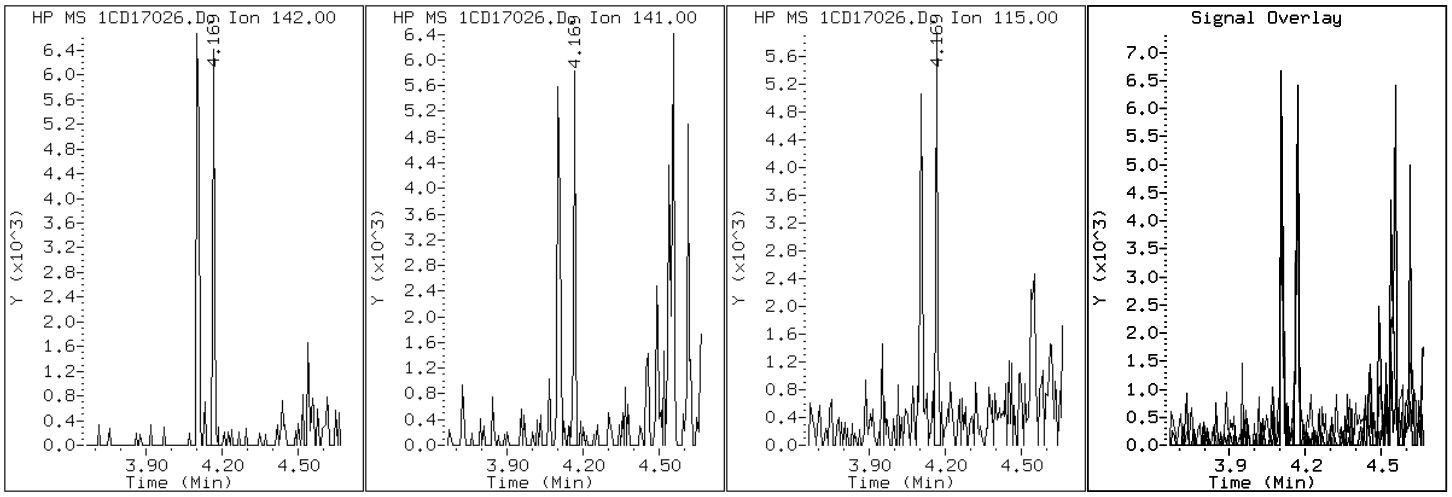
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

4 1-Methylnaphthalene



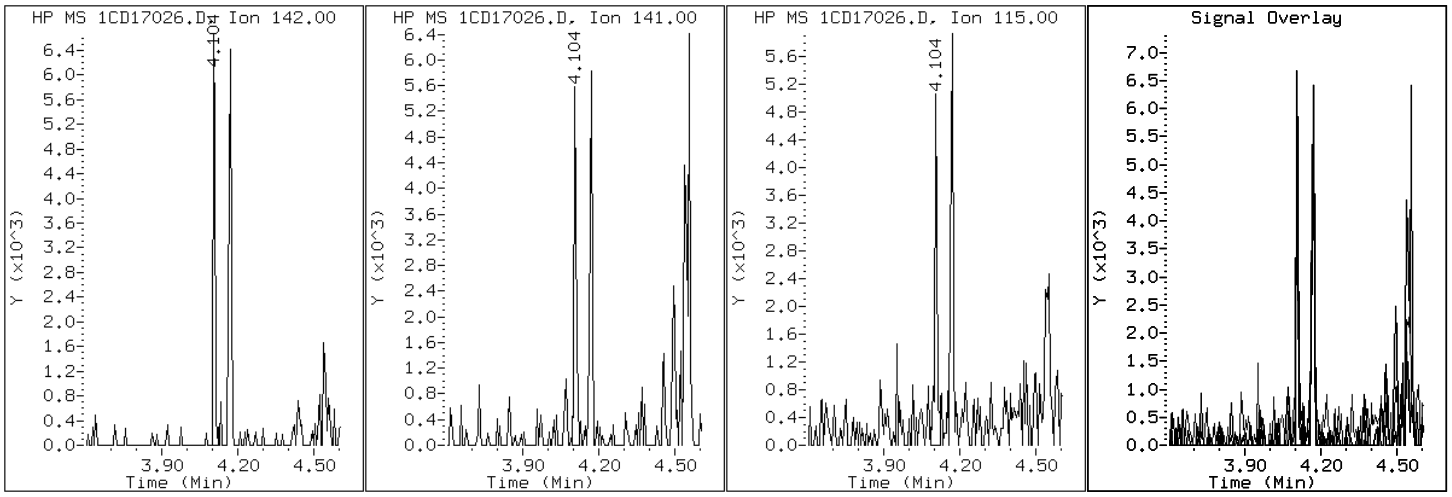
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

3 2-Methylnaphthalene



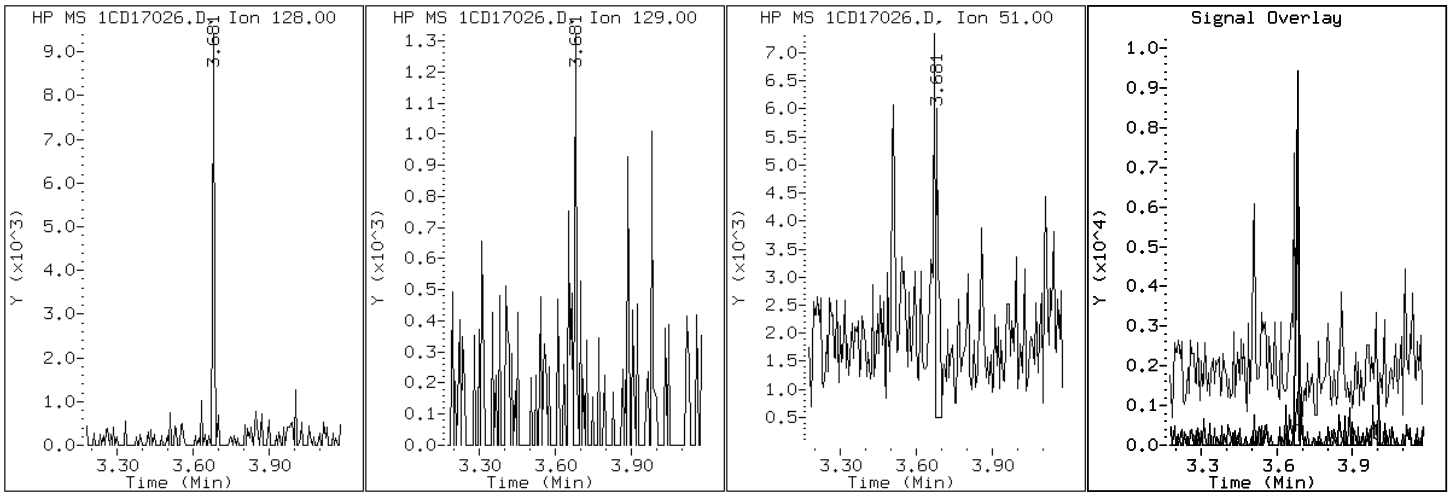
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

2 Naphthalene



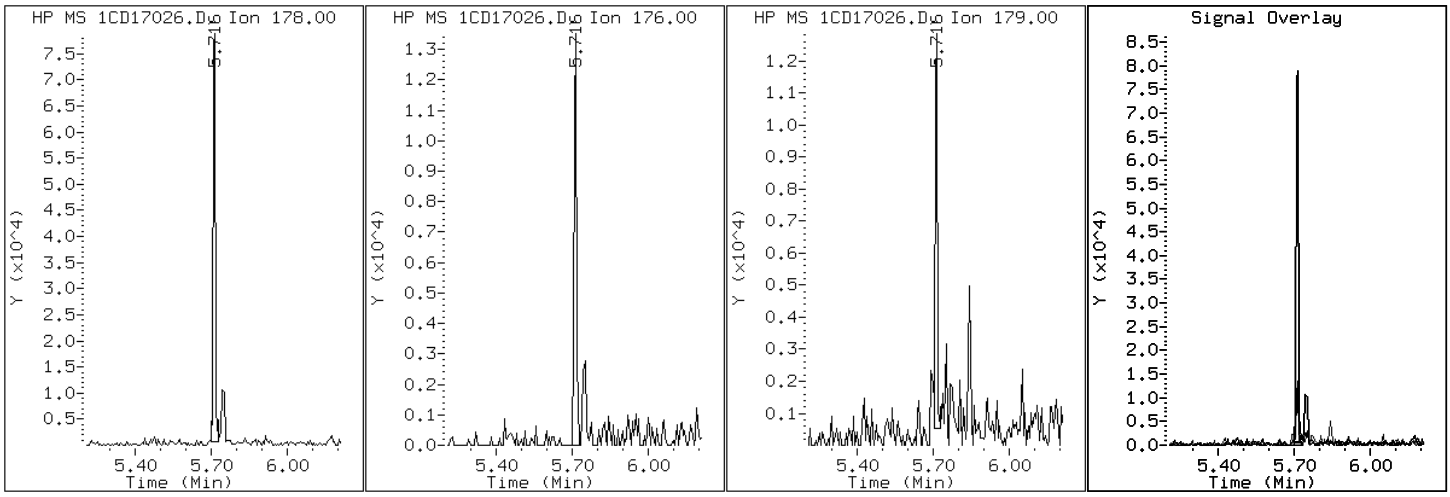
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

11 Phenanthrene



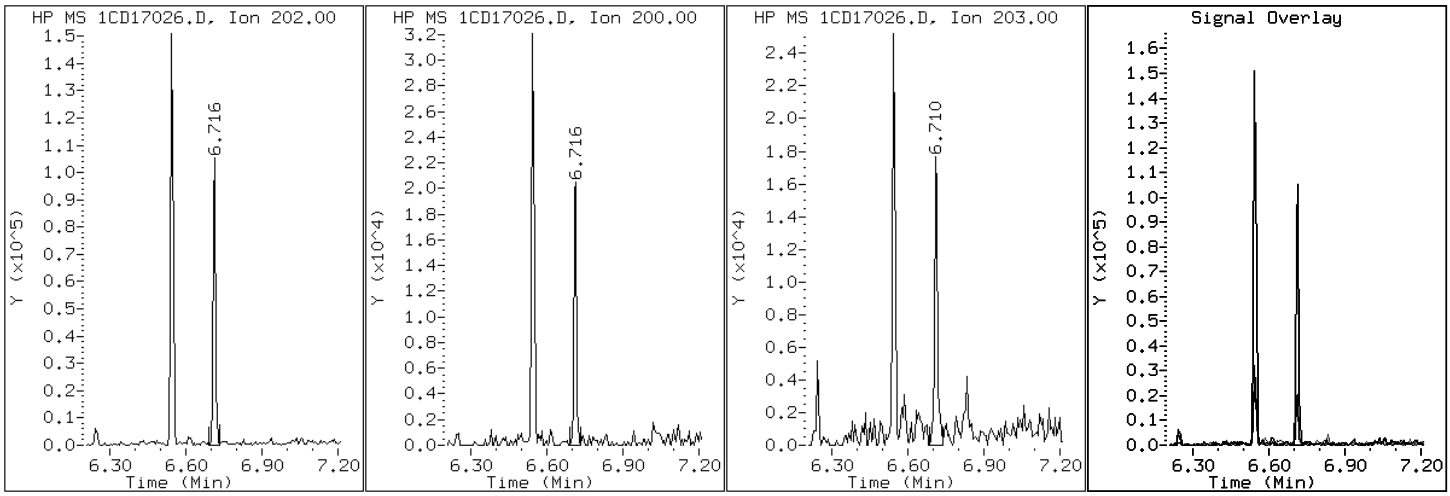
Data File: 1CD17026.D

Date: 17-APR-2013 17:19

Client ID: CV0661B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-22-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD17026.D
Inj. Date and Time: 17-APR-2013 17:19
Instrument ID: BSMC5973.i
Client ID: CV0661B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/18/2013

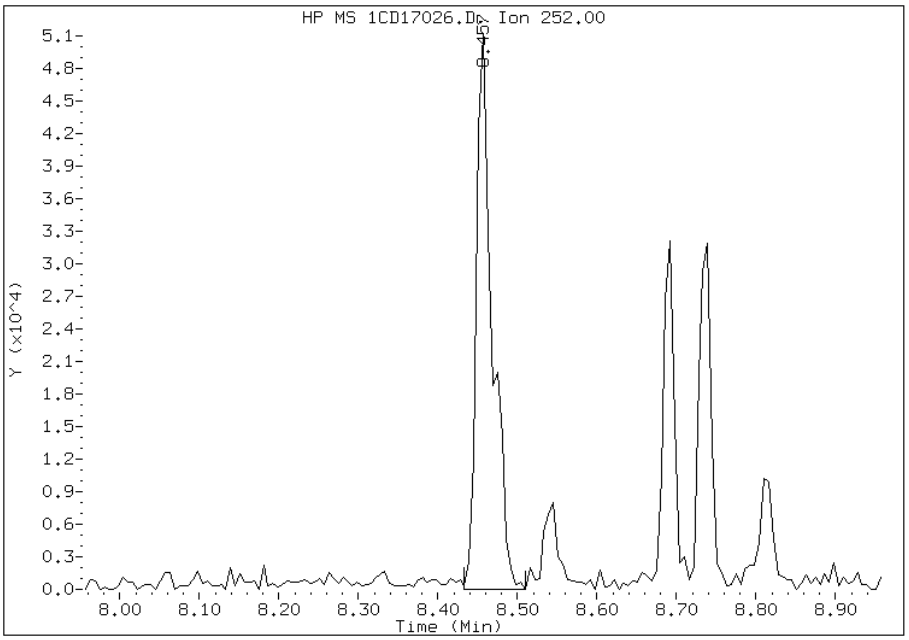
Processing Integration Results

RT: 8.46

Response: 71208

Amount: 7

Conc: 2218



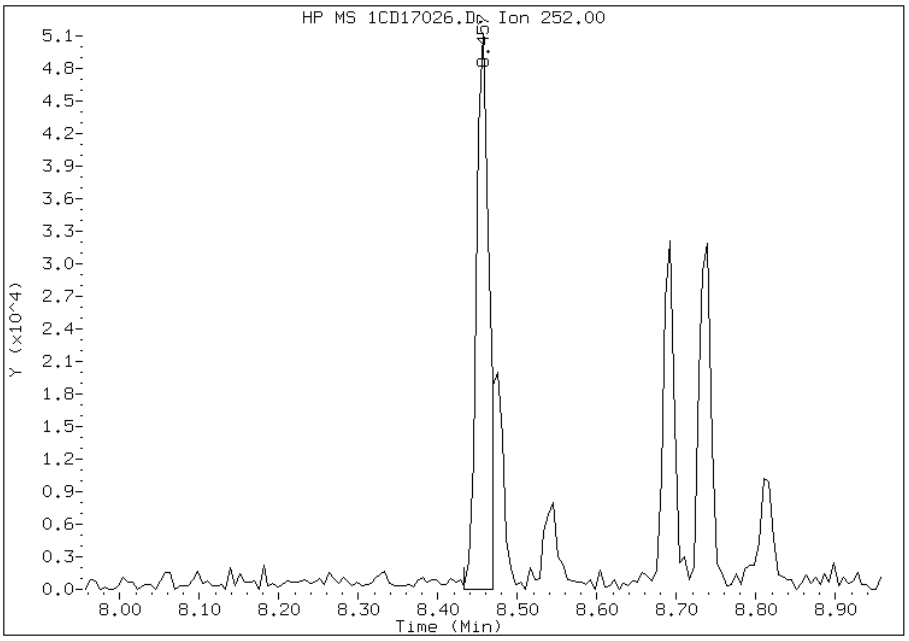
Manual Integration Results

RT: 8.46

Response: 56433

Amount: 5

Conc: 1757



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 11:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD17026.D
Inj. Date and Time: 17-APR-2013 17:19
Instrument ID: BSMC5973.i
Client ID: CV0661B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/18/2013

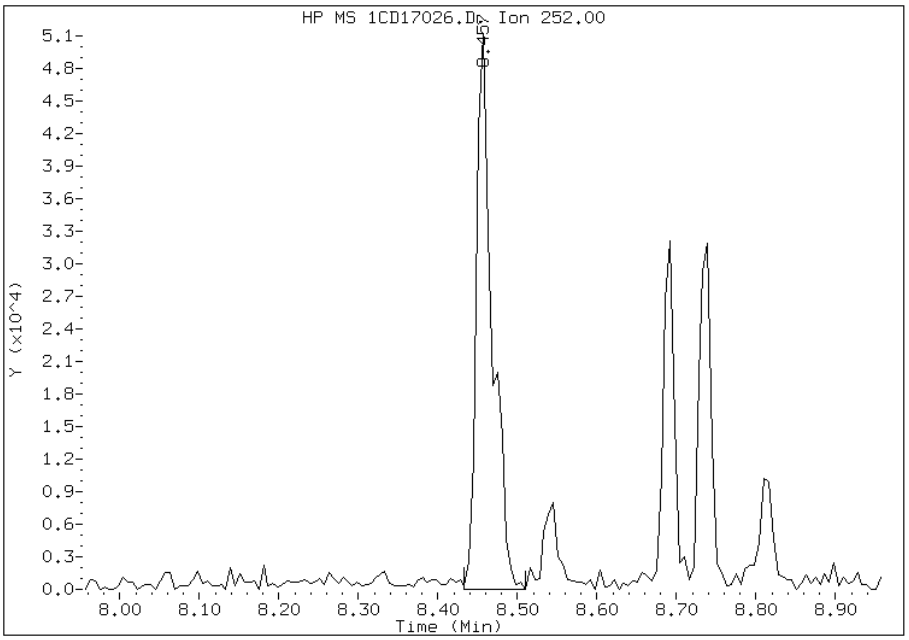
Processing Integration Results

RT: 8.46

Response: 71208

Amount: 6

Conc: 1960



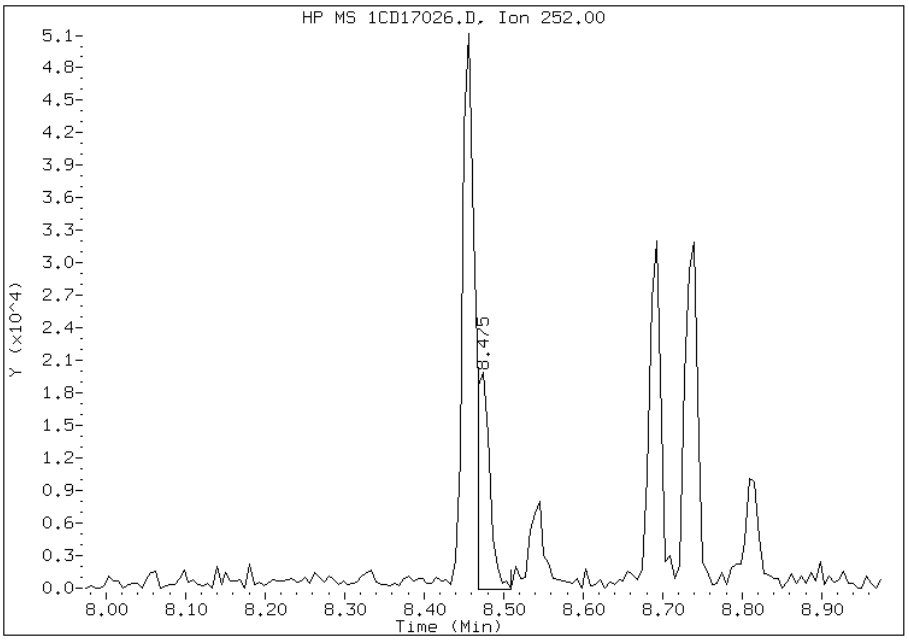
Manual Integration Results

RT: 8.47

Response: 21689

Amount: 2

Conc: 597



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 11:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD17026.D
Inj. Date and Time: 17-APR-2013 17:19
Instrument ID: BSMC5973.i
Client ID: CV0661B-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/18/2013

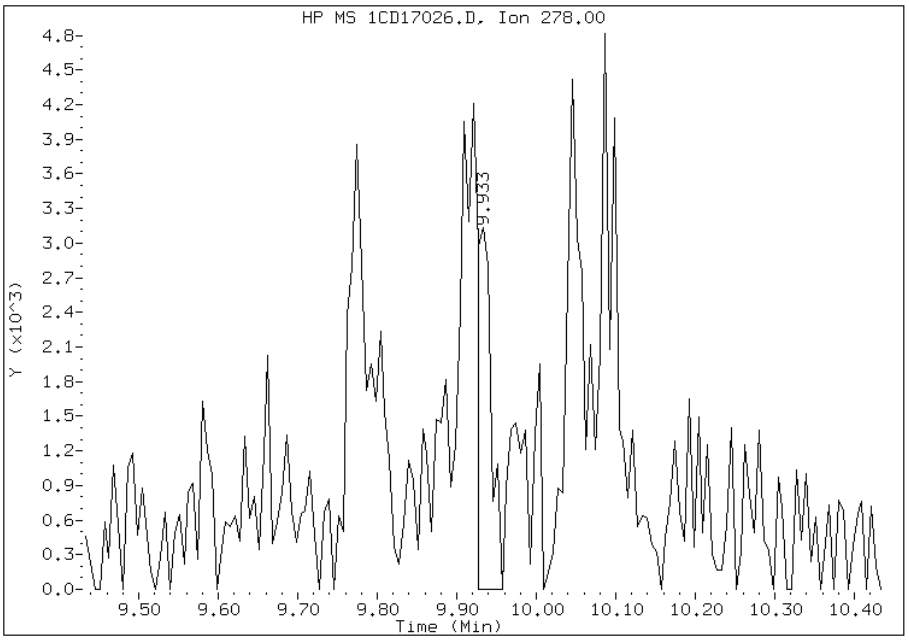
Processing Integration Results

RT: 9.93

Response: 3794

Amount: 1

Conc: 268



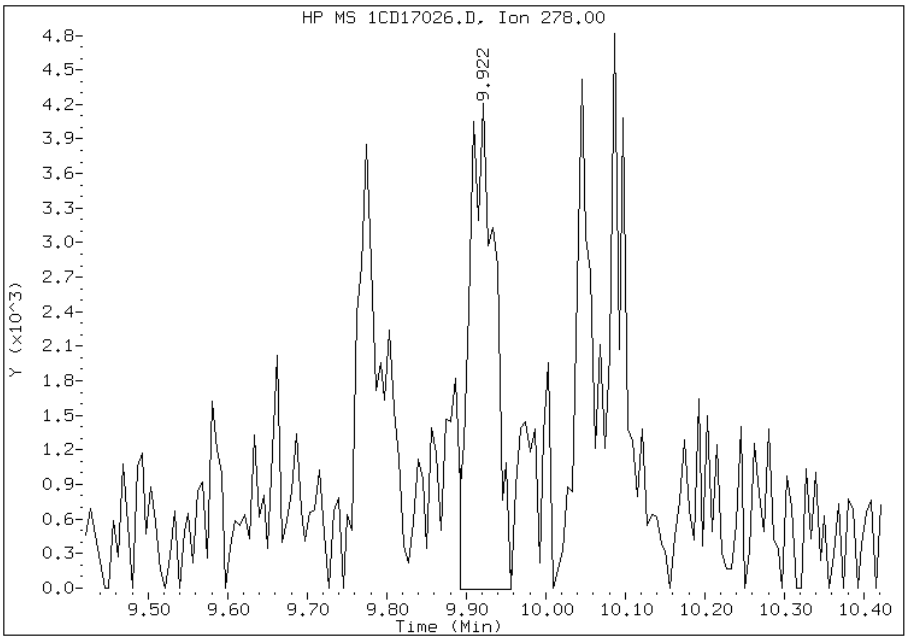
Manual Integration Results

RT: 9.92

Response: 9492

Amount: 1

Conc: 443



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 11:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD17026.D
Inj. Date and Time: 17-APR-2013 17:19
Instrument ID: BSMC5973.i
Client ID: CV0661B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/18/2013

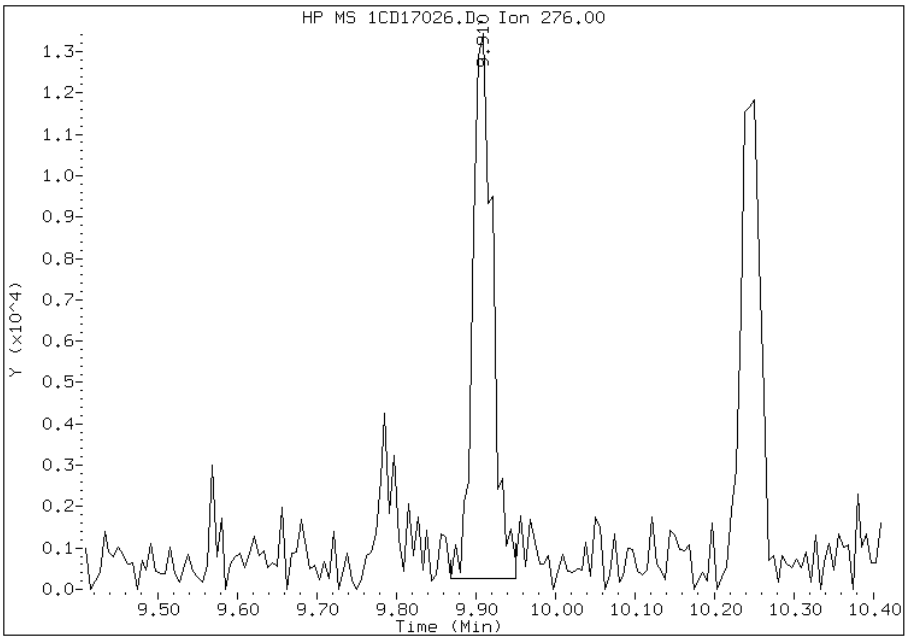
Processing Integration Results

RT: 9.91

Response: 22853

Amount: 3

Conc: 910



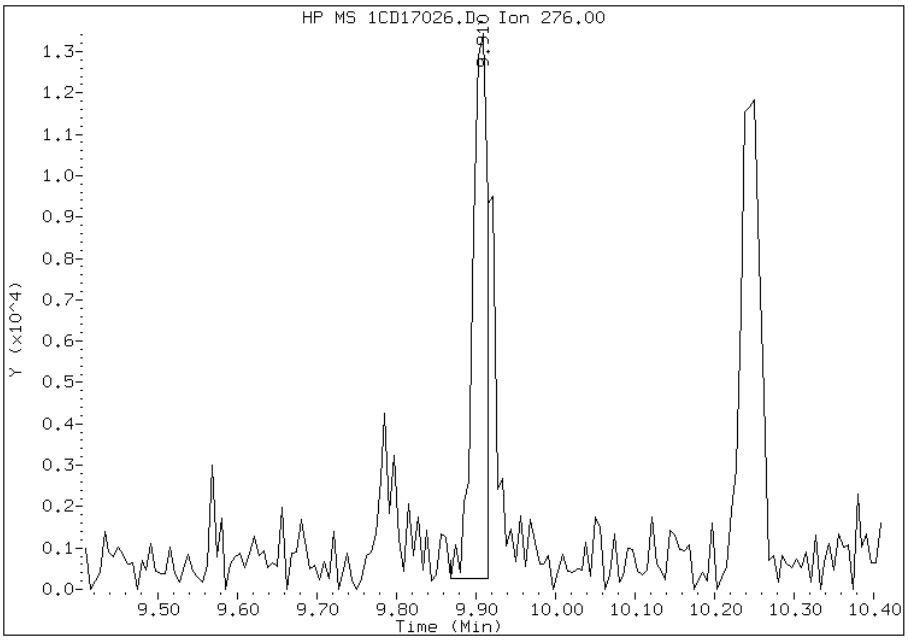
Manual Integration Results

RT: 9.91

Response: 17140

Amount: 2

Conc: 737



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 11:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: CV0661C-CS-SP | Lab Sample ID: 680-89275-23

Matrix: Solid | Lab File ID: 1CD17027.D

Analysis Method: 8270C LL | Date Collected: 04/10/2013 09:06

Extract. Method: 3546 | Date Extracted: 04/16/2013 07:00

Sample wt/vol: 15.00(g) | Date Analyzed: 04/17/2013 17:38

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

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

% Moisture: 19.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136590 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	60		49	6.2
120-12-7	Anthracene	89		10	5.2
56-55-3	Benzo[a]anthracene	420		9.9	4.8
50-32-8	Benzo[a]pyrene	390		13	6.4
205-99-2	Benzo[b]fluoranthene	680		15	7.5
191-24-2	Benzo[g,h,i]perylene	320		25	5.4
207-08-9	Benzo[k]fluoranthene	280		9.9	4.4
218-01-9	Chrysene	490		11	5.6
53-70-3	Dibenz(a,h)anthracene	120		25	5.1
206-44-0	Fluoranthene	490		25	4.9
86-73-7	Fluorene	33		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	300		25	8.8
90-12-0	1-Methylnaphthalene	170		49	5.4
91-57-6	2-Methylnaphthalene	210		49	8.8
91-20-3	Naphthalene	170		49	5.4
85-01-8	Phenanthrene	380		9.9	4.8
129-00-0	Pyrene	440		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17027.D
Lab Smp Id: 680-89275-A-23-A Client Smp ID: CV0661C-CS-SP
Inj Date : 17-APR-2013 17:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89275-a-23-a
Misc Info : 680-89275-A-23-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m
Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	19.017	% 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	3.668	3.663	(1.000)	348175	40.0000	
* 6 Acenaphthene-d10	164	4.757	4.751	(1.000)	236688	40.0000	
* 10 Phenanthrene-d10	188	5.698	5.698	(1.000)	429492	40.0000	
$ 14 o-Terphenyl	230	5.951	5.945	(1.044)	29260	4.80371	395.4504
* 18 Chrysene-d12	240	7.633	7.627	(1.000)	474403	40.0000	
* 23 Perylene-d12	264	8.792	8.780	(1.000)	455137	40.0000	
2 Naphthalene	128	3.680	3.680	(1.003)	19851	2.10918	173.6317
3 2-Methylnaphthalene	142	4.104	4.104	(1.119)	14579	2.58886	213.1200
4 1-Methylnaphthalene	142	4.168	4.168	(1.136)	12083	2.00987	165.4559
5 Acenaphthylene	152	4.668	4.663	(0.981)	7341	0.73195	60.2556
9 Fluorene	166	5.092	5.092	(1.070)	3088	0.40148	33.0504(Q)
11 Phenanthrene	178	5.715	5.709	(1.003)	58234	4.62546	380.7769
12 Anthracene	178	5.745	5.745	(1.008)	13413	1.07574	88.5570
13 Carbazole	167	5.857	5.851	(1.028)	9114	0.78483	64.6090

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	6.545	6.545	(1.149)	82737	5.93828	488.8508
16 Pyrene	202	6.715	6.709	(0.880)	72940	5.40446	444.9051
17 Benzo(a)anthracene	228	7.627	7.621	(0.999)	68022	5.07052	417.4150
19 Chrysene	228	7.651	7.651	(1.002)	78861	5.94237	489.1871
20 Benzo(b)fluoranthene	252	8.456	8.450	(0.962)	94478	8.21862	676.5726(M)
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.963)	44583	3.42738	282.1484(QM)
22 Benzo(a)pyrene	252	8.739	8.733	(0.994)	56469	4.75215	391.2061
24 Indeno(1,2,3-cd)pyrene	276	9.915	9.903	(1.128)	35307	3.63015	298.8411(M)
25 Dibenzo(a,h)anthracene	278	9.921	9.915	(1.128)	12221	1.49561	123.1218(M)
26 Benzo(g,h,i)perylene	276	10.250	10.233	(1.166)	42653	3.82956	315.2568

QC Flag Legend

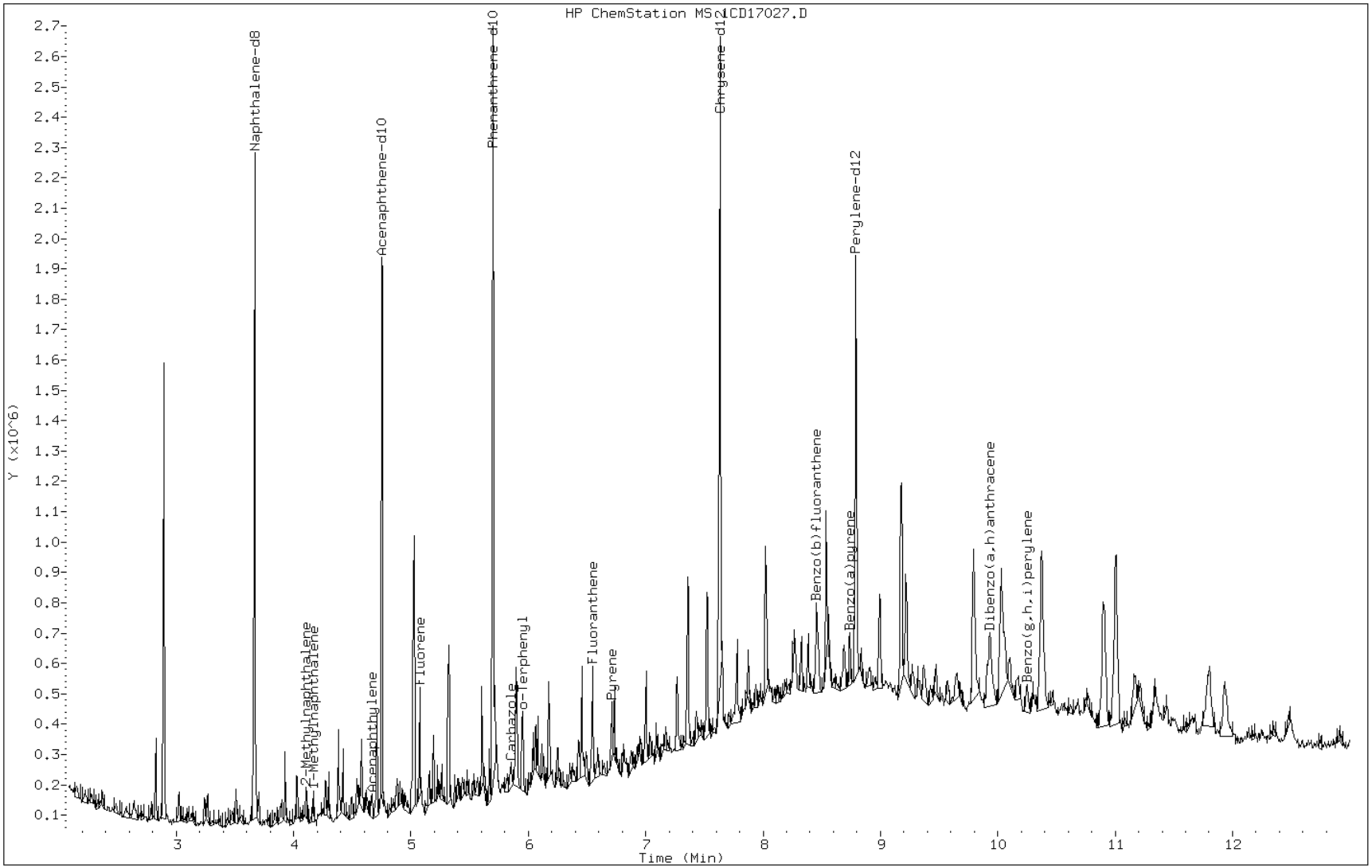
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC



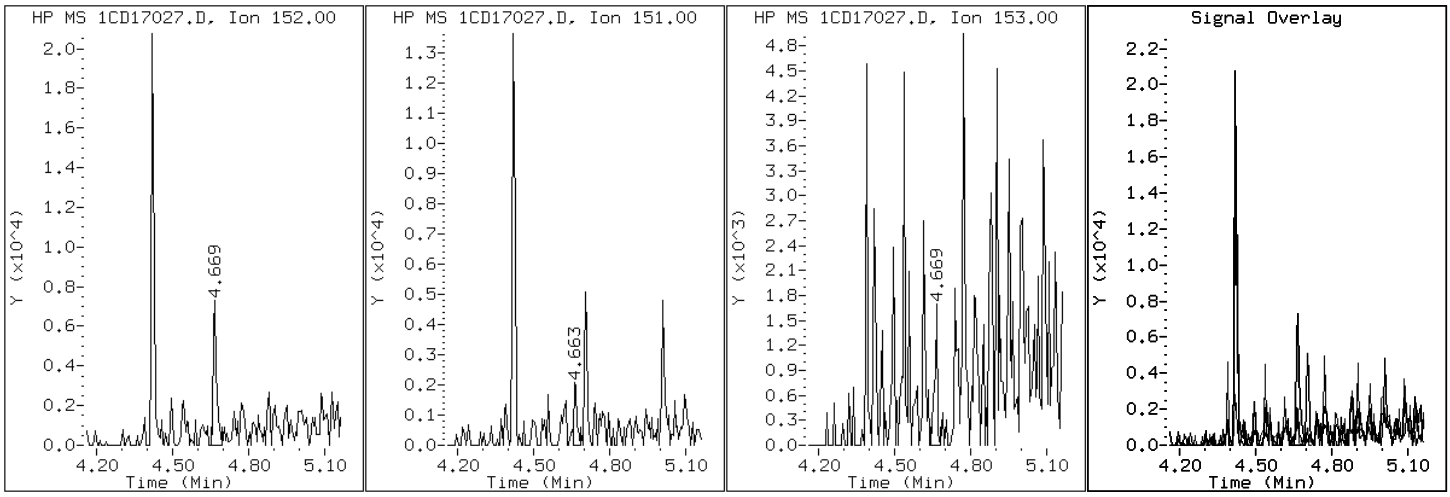
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

5 Acenaphthylene



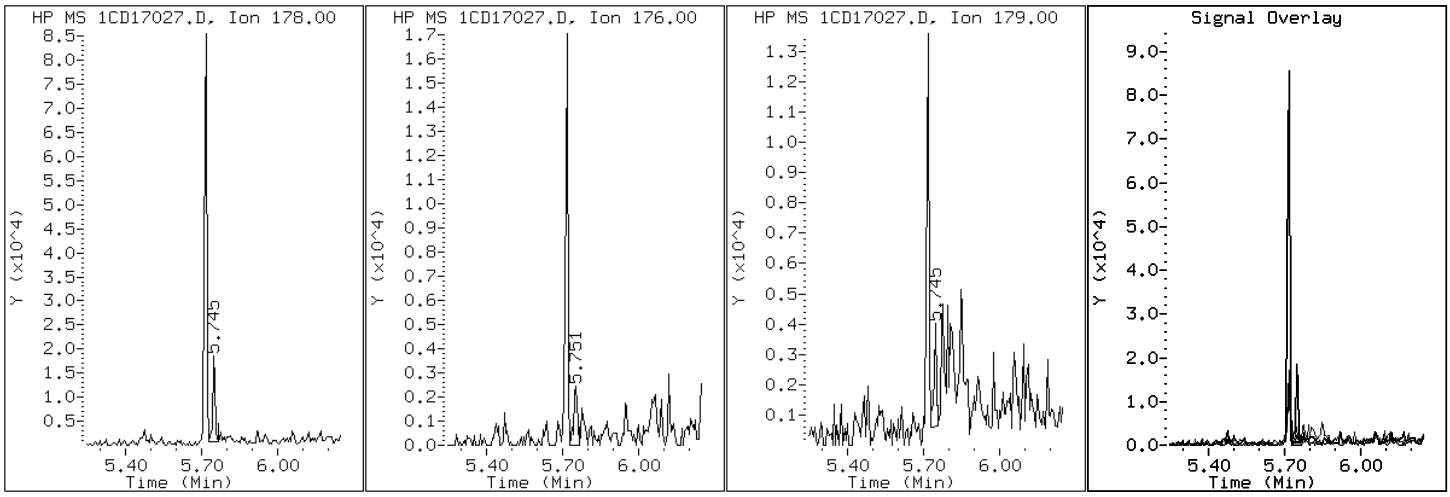
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

12 Anthracene



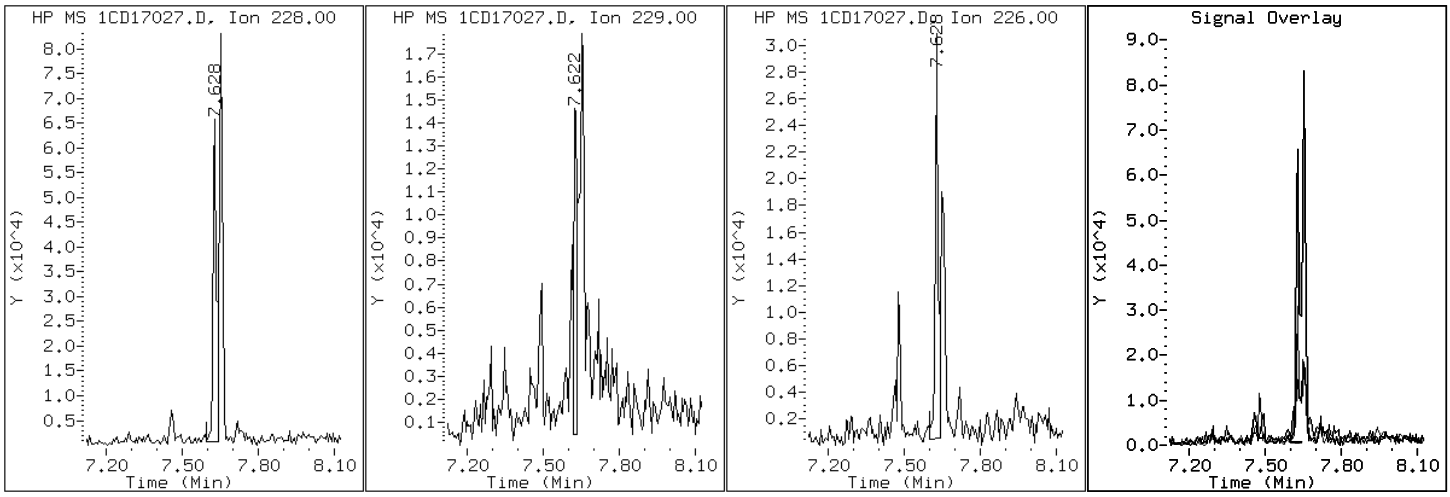
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

17 Benzo(a)anthracene



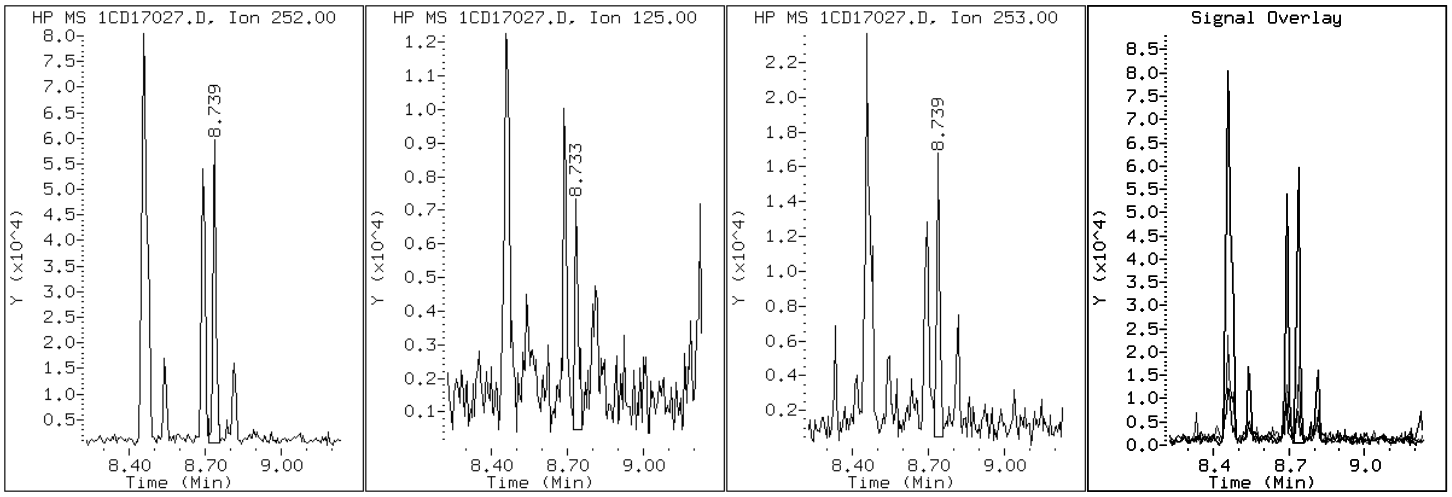
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

22 Benzo(a)pyrene



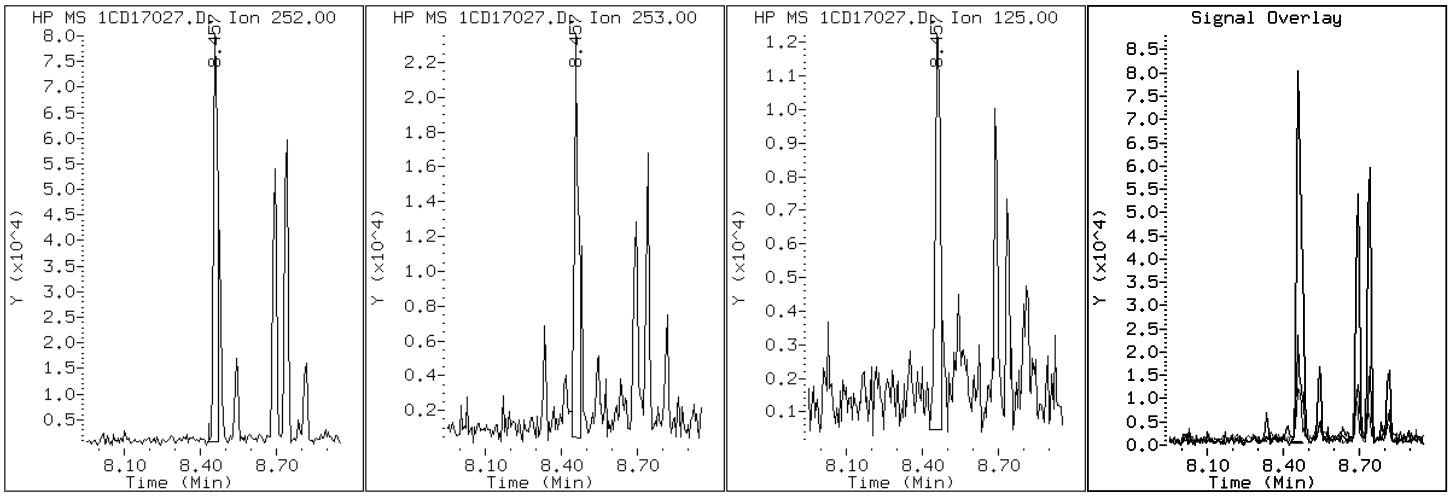
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

20 Benzo(b)fluoranthene



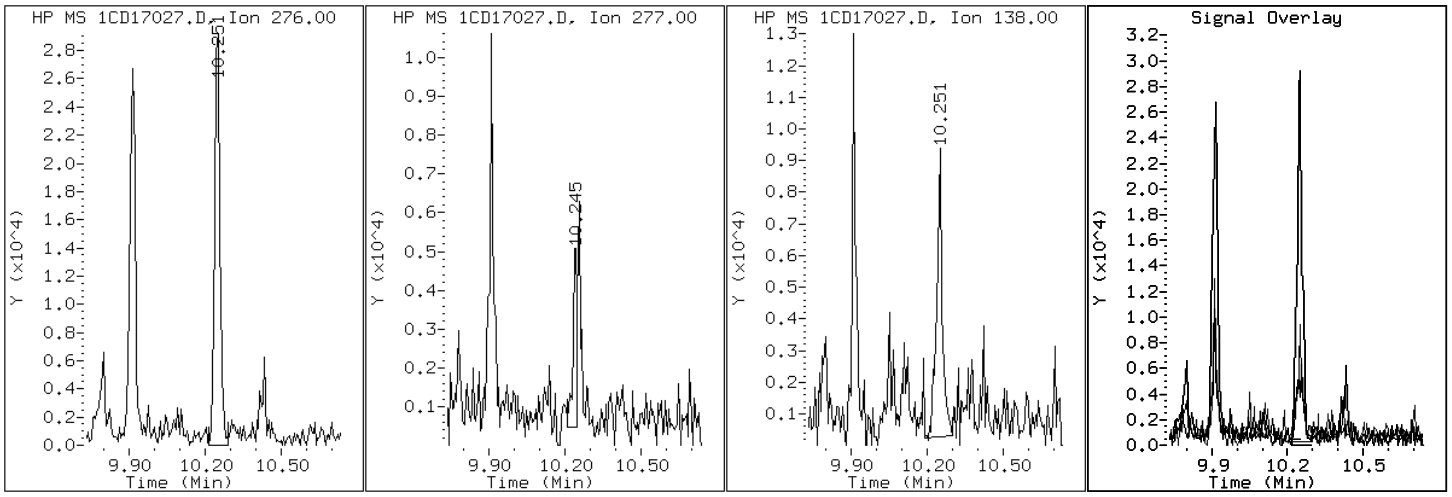
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

26 Benzo(g,h,i)perylene



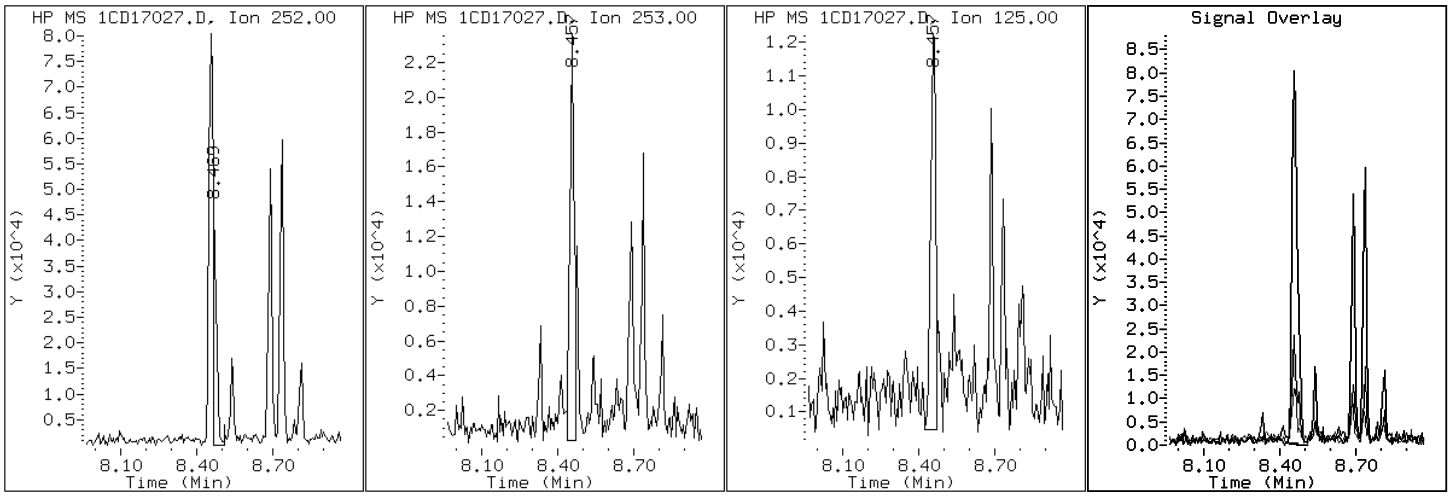
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

21 Benzo(k)fluoranthene



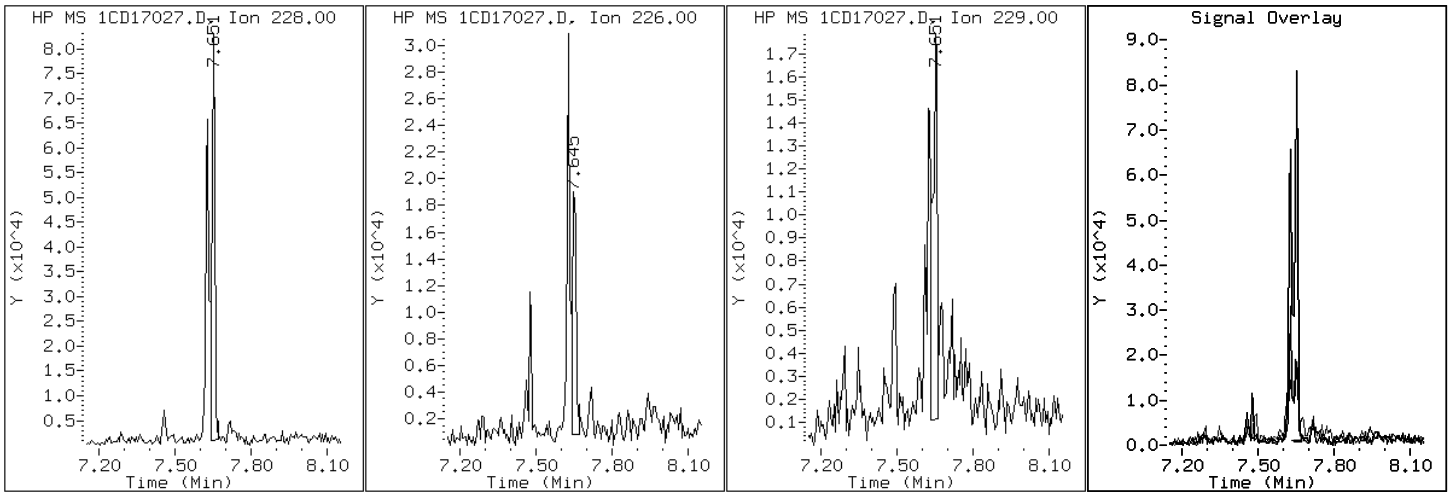
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

19 Chrysene



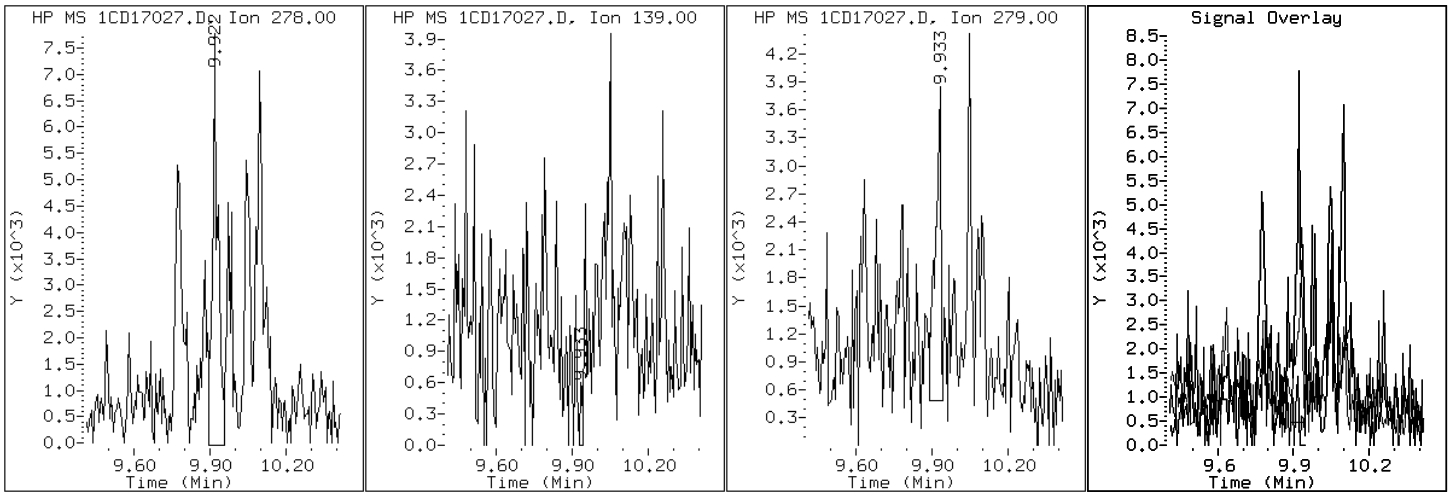
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

25 Dibenzo(a,h)anthracene



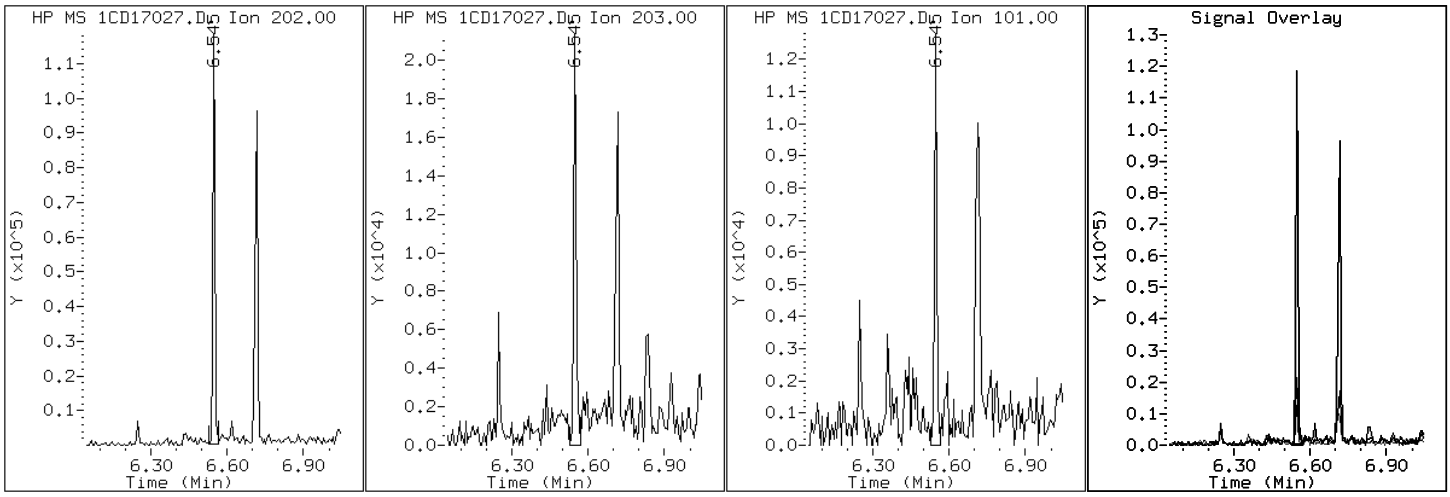
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

15 Fluoranthene



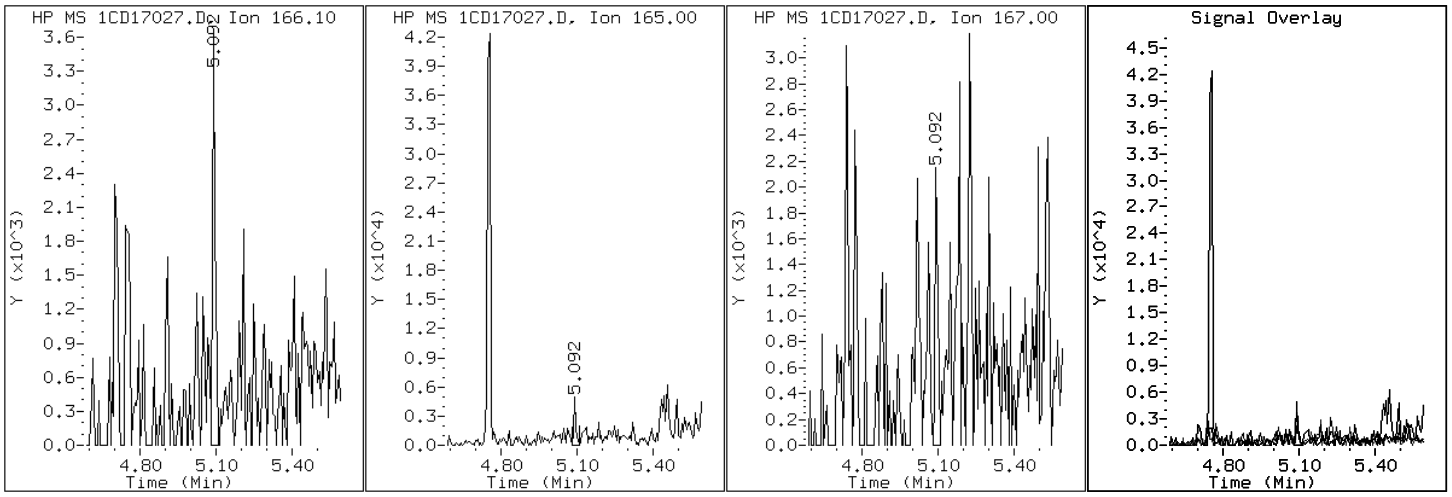
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

9 Fluorene



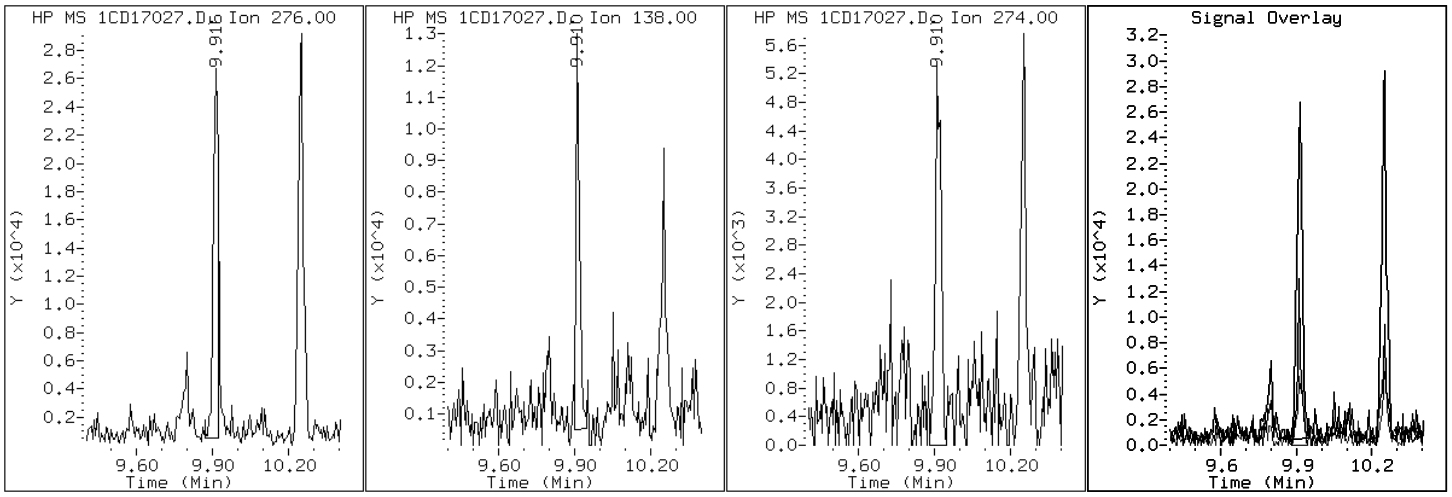
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

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



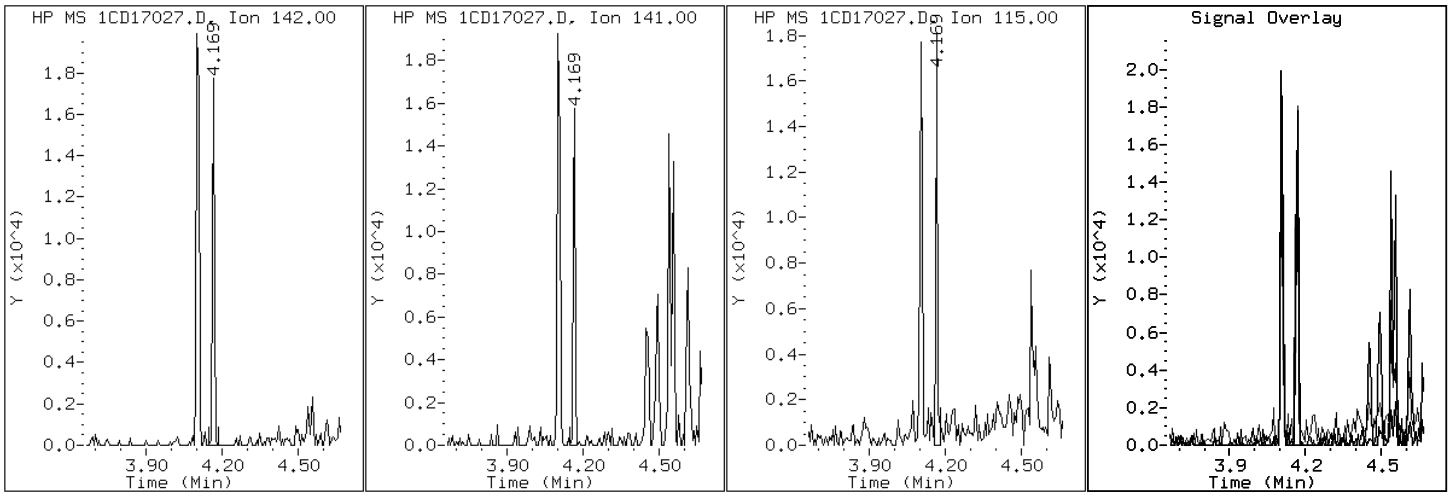
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

4 1-Methylnaphthalene



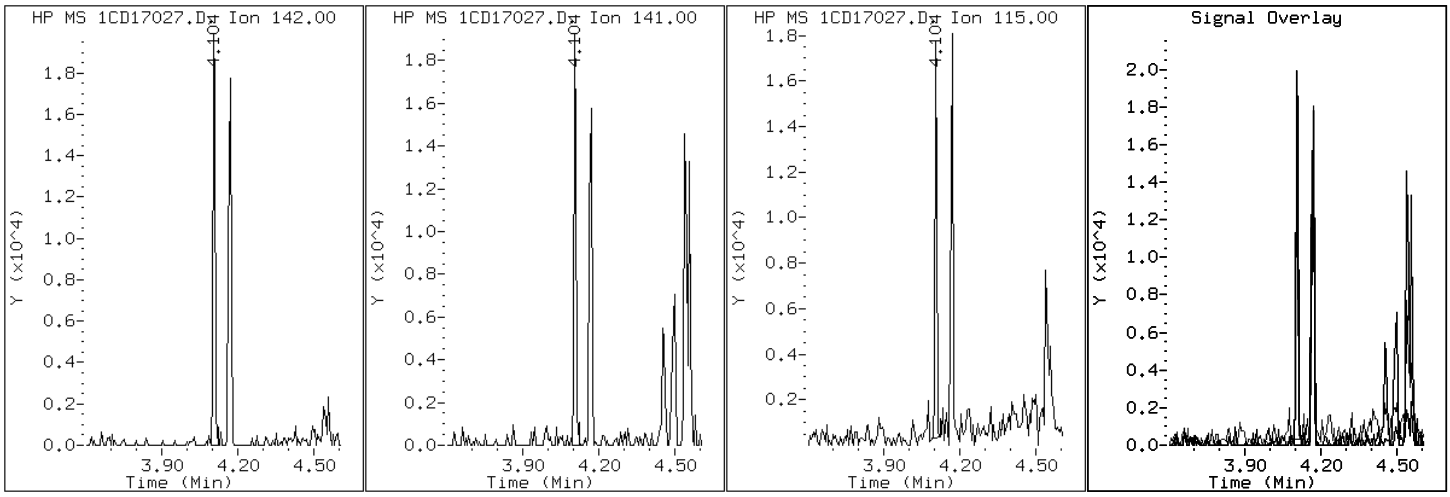
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

3 2-Methylnaphthalene



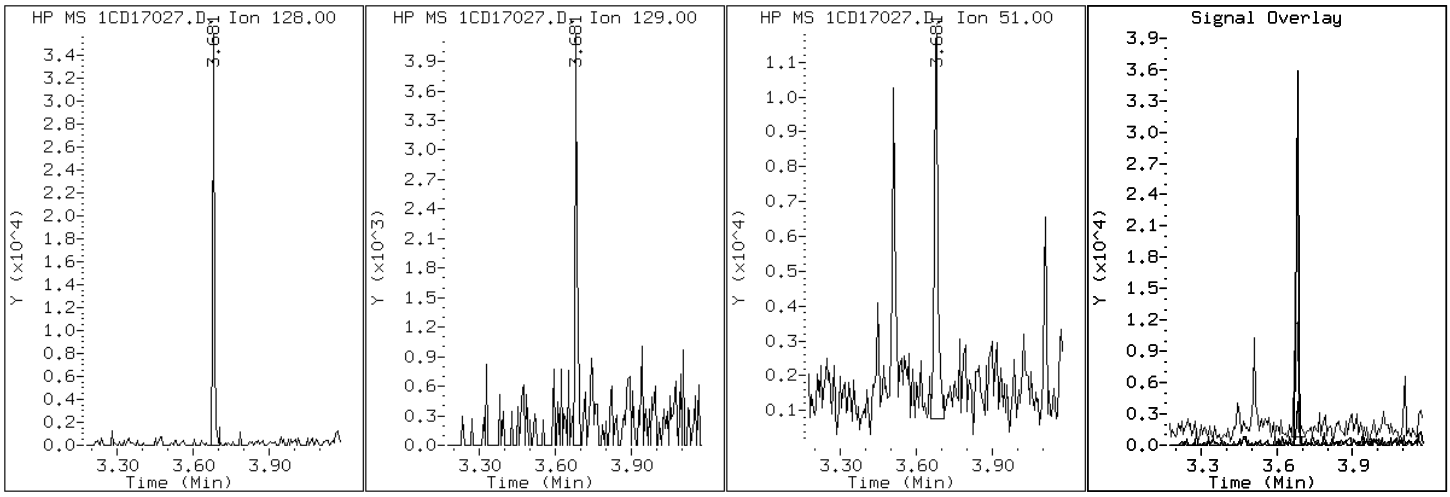
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

2 Naphthalene



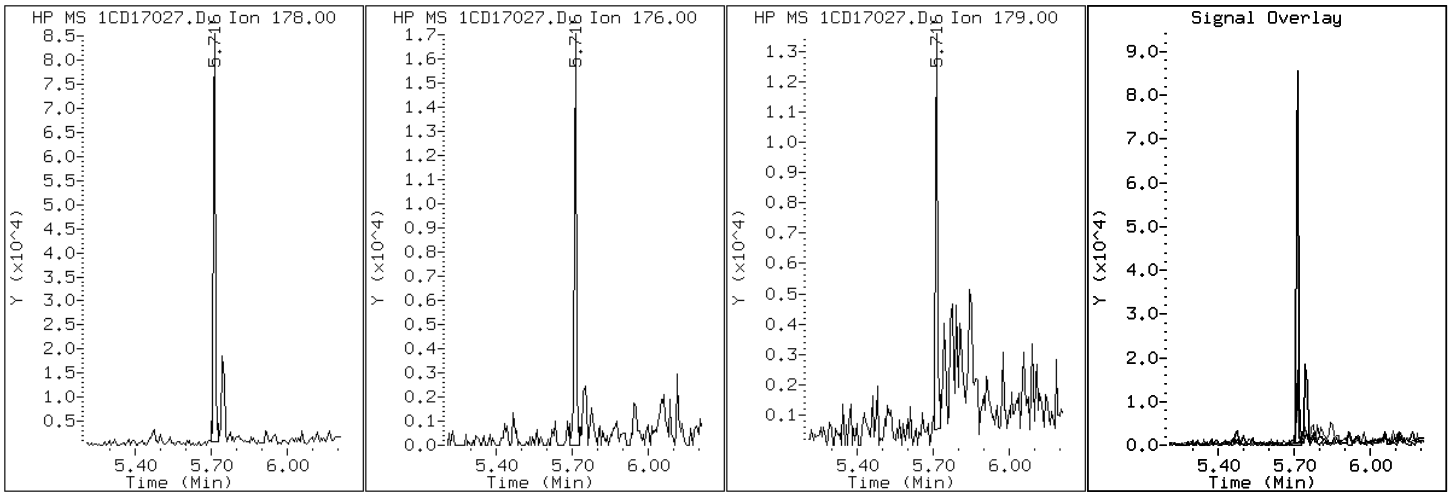
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

11 Phenanthrene



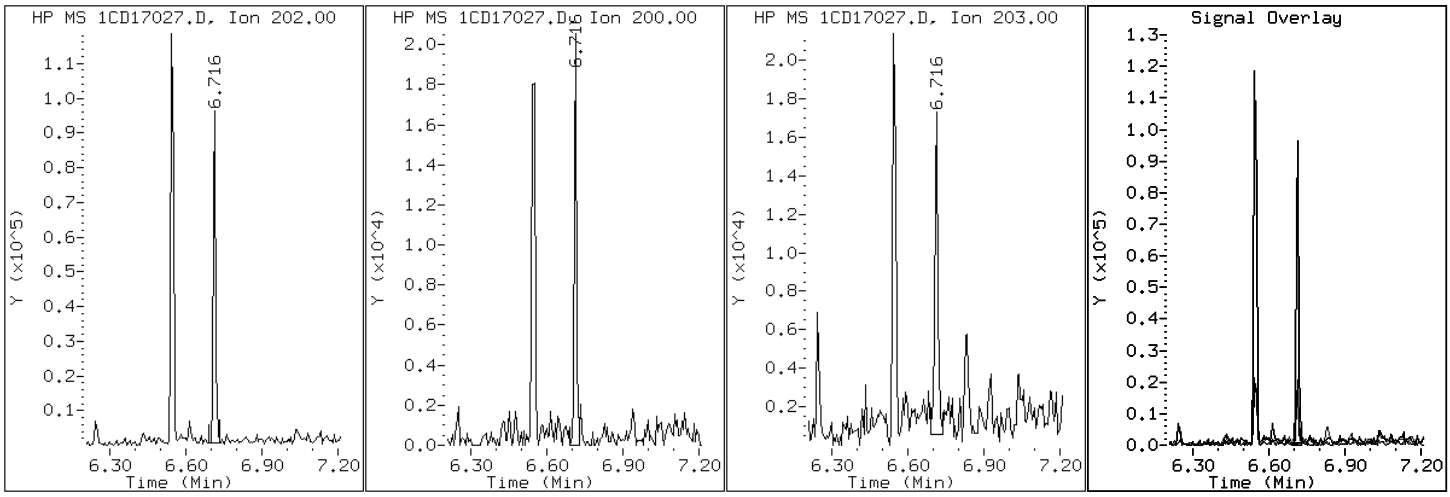
Data File: 1CD17027.D

Date: 17-APR-2013 17:38

Client ID: CV0661C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-a-23-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD17027.D
Inj. Date and Time: 17-APR-2013 17:38
Instrument ID: BSMC5973.i
Client ID: CV0661C-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/18/2013

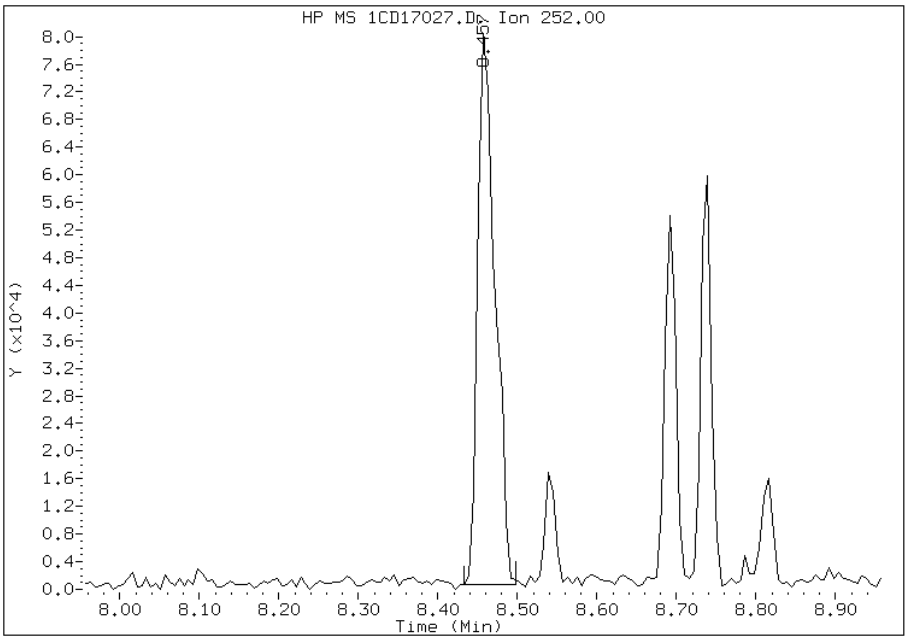
Processing Integration Results

RT: 8.46

Response: 120787

Amount: 11

Conc: 865



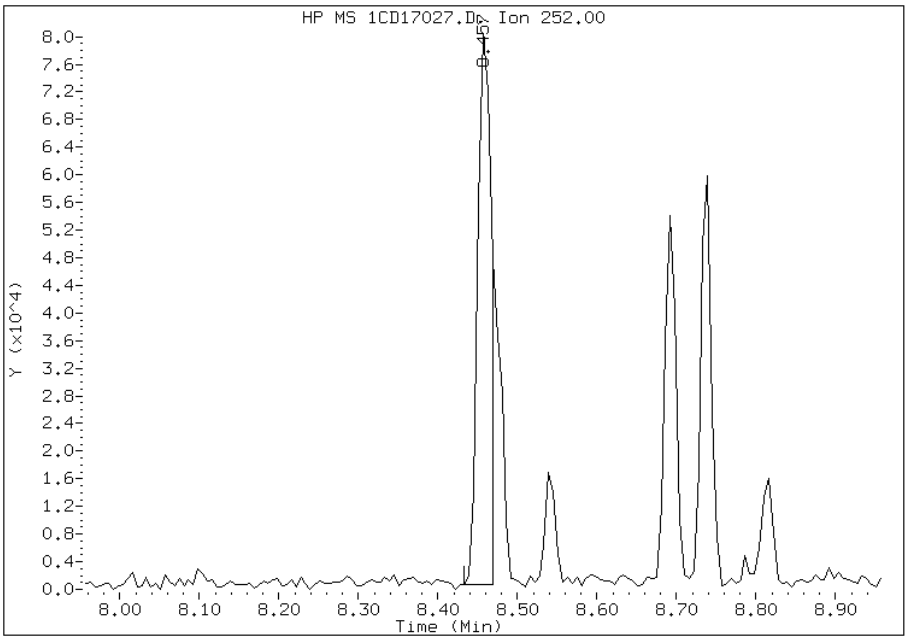
Manual Integration Results

RT: 8.46

Response: 94478

Amount: 8

Conc: 677



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 12:11
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD17027.D
Inj. Date and Time: 17-APR-2013 17:38
Instrument ID: BSMC5973.i
Client ID: CV0661C-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/18/2013

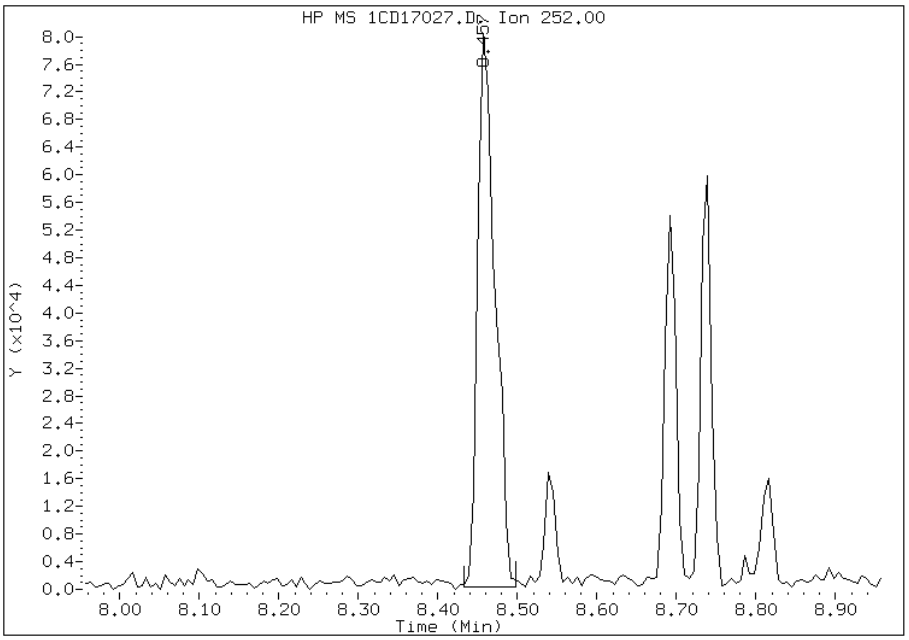
Processing Integration Results

RT: 8.46

Response: 122187

Amount: 9

Conc: 773



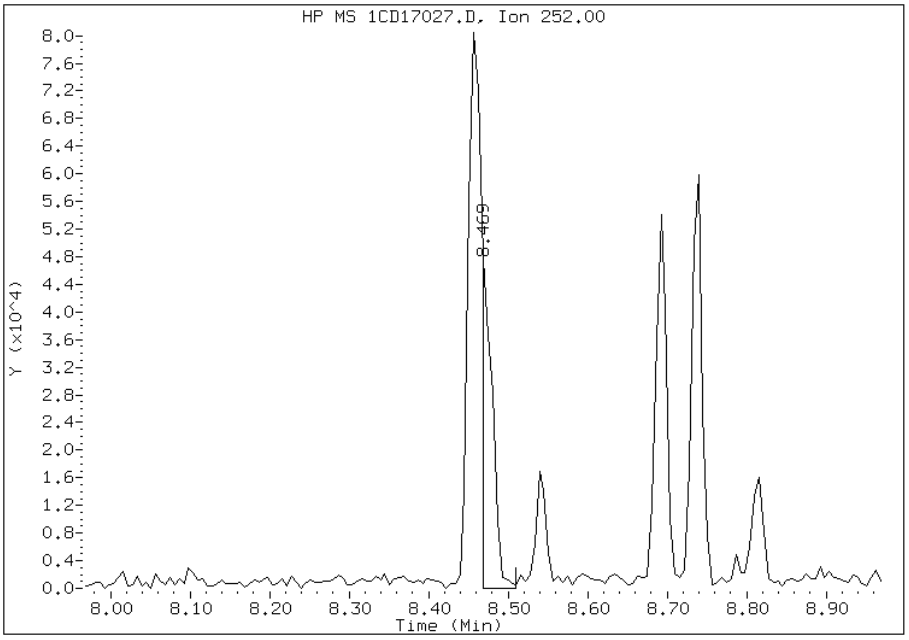
Manual Integration Results

RT: 8.47

Response: 44583

Amount: 3

Conc: 282



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 12:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD17027.D
Inj. Date and Time: 17-APR-2013 17:38
Instrument ID: BSMC5973.i
Client ID: CV0661C-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/18/2013

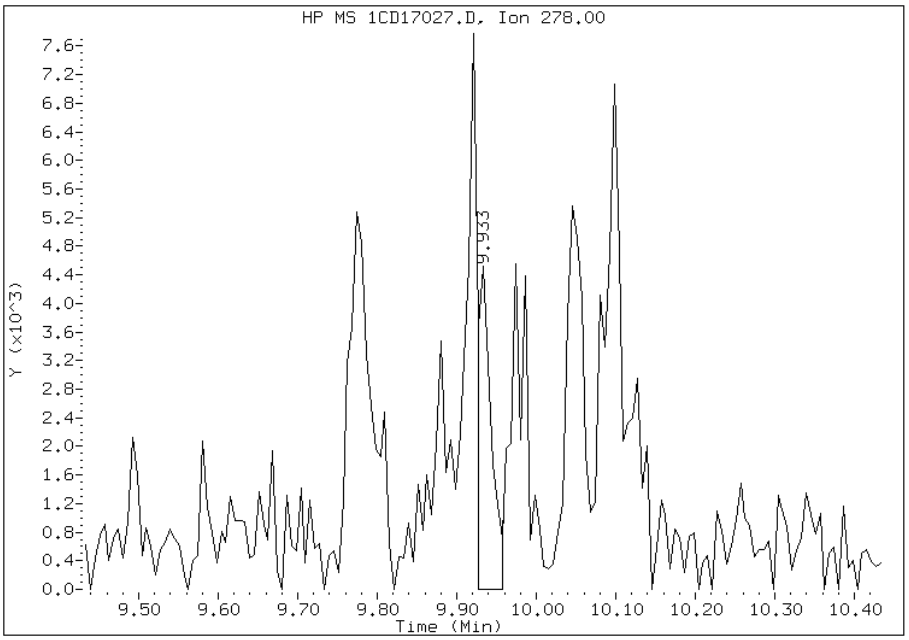
Processing Integration Results

RT: 9.93

Response: 5296

Amount: 1

Conc: 74



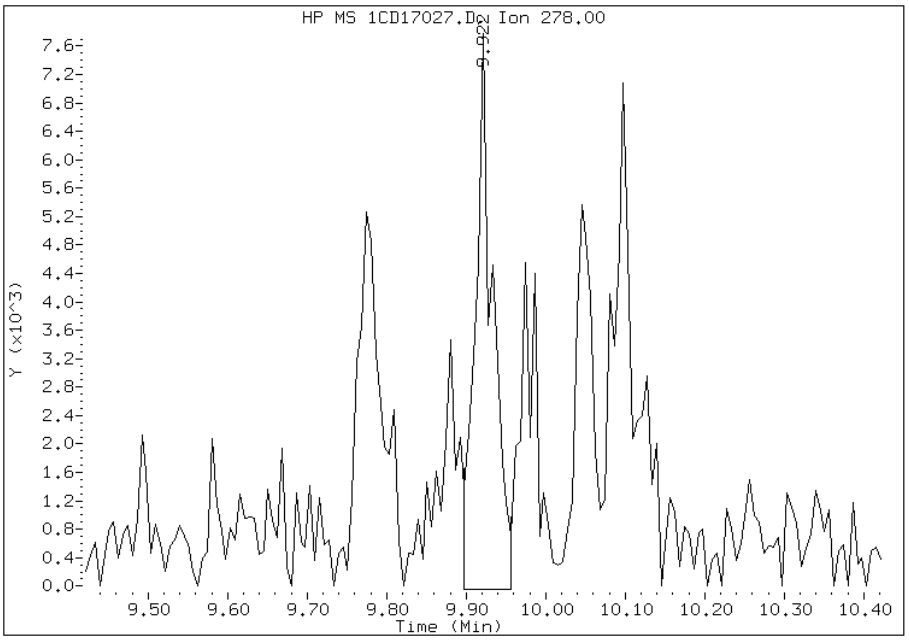
Manual Integration Results

RT: 9.92

Response: 12221

Amount: 1

Conc: 123



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 12:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD17027.D
Inj. Date and Time: 17-APR-2013 17:38
Instrument ID: BSMC5973.i
Client ID: CV0661C-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/18/2013

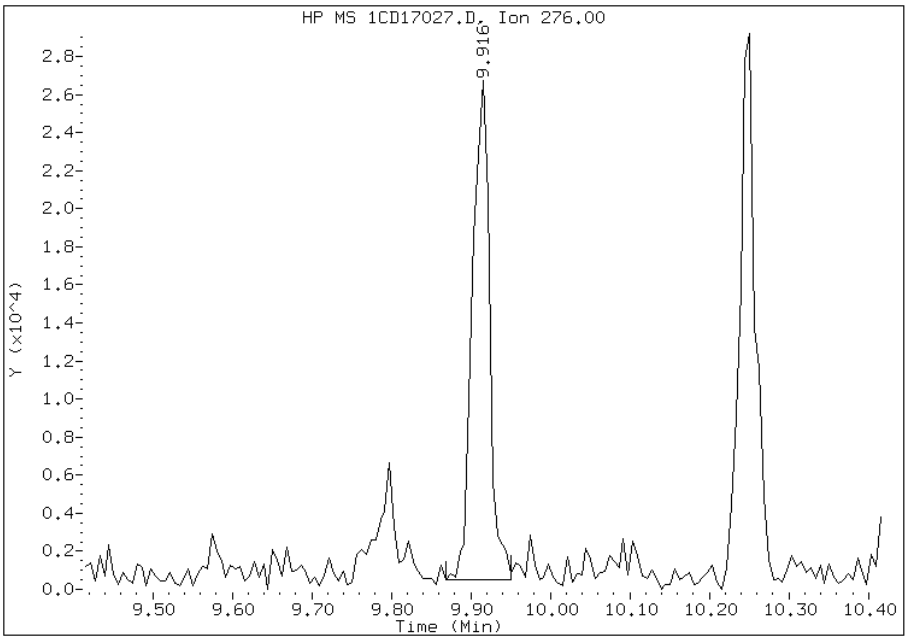
Processing Integration Results

RT: 9.92

Response: 39288

Amount: 4

Conc: 327



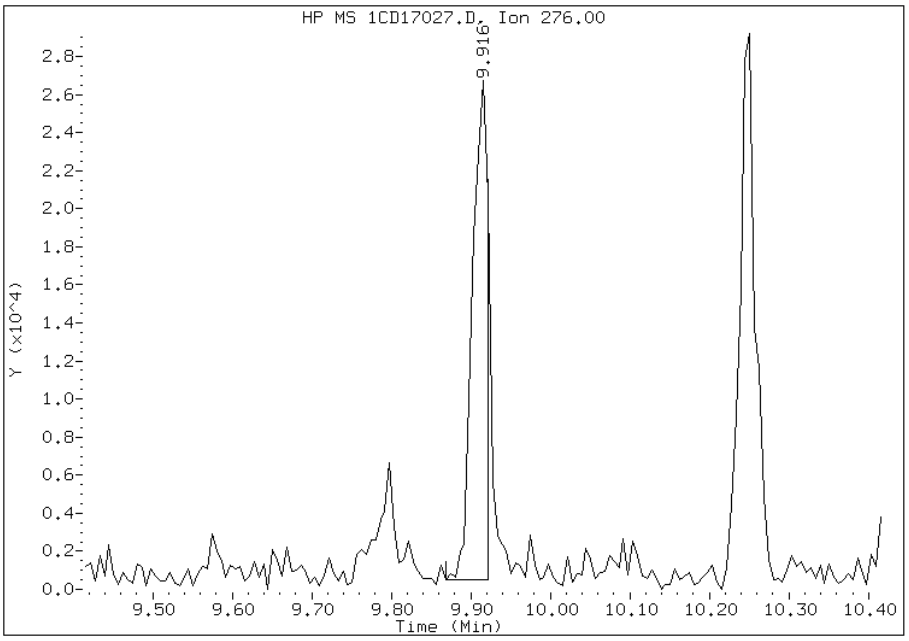
Manual Integration Results

RT: 9.92

Response: 35307

Amount: 4

Conc: 299



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 12:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: CV0886A-CS-SP | Lab Sample ID: 680-89275-24

Matrix: Solid | Lab File ID: 1DD18008.D

Analysis Method: 8270C LL | Date Collected: 04/10/2013 13:55

Extract. Method: 3546 | Date Extracted: 04/16/2013 07:00

Sample wt/vol: 14.90(g) | Date Analyzed: 04/18/2013 14:50

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

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

% Moisture: 21.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	3100		200	26
90-12-0	1-Methylnaphthalene	5700		200	22
91-57-6	2-Methylnaphthalene	6000		200	36
91-20-3	Naphthalene	15000		200	22

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18008.D
Lab Smp Id: 680-89275-A-24-A Client Smp ID: CV0886A-CS-SP
Inj Date : 18-APR-2013 14:50
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89275-A-24-A
Misc Info : 680-89275-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\dFASTPAHi.m
Meth Date : 18-Apr-2013 14:23 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 5
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.900	Weight Extracted
M	21.099	% 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/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.061	6.062	(1.000)	2641571	40.0000	
* 6	Acenaphthene-d10	164	7.741	7.742	(1.000)	1736742	40.0000	
* 9	Phenanthrene-d10	188	9.028	8.999	(1.000)	3251692	40.0000	
$ 13	o-Terphenyl	230	9.310	9.311	(1.031)	64442	1.31529	450(H)
* 17	Chrysene-d12	240	11.396	11.314	(1.000)	4116470	40.0000	(H)
* 22	Perylene-d12	264	13.253	13.130	(1.000)	3585367	40.0000	(H)
2	Naphthalene	128	6.084	6.085	(1.004)	2887870	43.9838	15000
3	2-Methylnaphthalene	142	6.789	6.790	(1.120)	752783	17.7610	6000
4	1-Methylnaphthalene	142	6.878	6.884	(1.135)	674341	16.8479	5700
5	Acenaphthylene	152	7.612	7.613	(0.983)	662440	9.01200	3100
7	Acenaphthene	154	7.771	7.766	(1.004)	2538760	55.9530	19000(A)
8	Fluorene	166	8.217	8.212	(1.061)	3135852	58.3622	20000(A)
10	Phenanthrene	178	9.034	9.017	(1.001)	27120159	302.793	100000(AMH)
11	Anthracene	178	9.093	9.058	(1.007)	9035425	101.639	34000(AM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.222	9.199	(1.021)	7694131	98.1228	33000(A)
14 Fluoranthene	202	10.021	10.004	(1.110)	34888557	378.530	130000(AM)
15 Pyrene	202	10.221	10.192	(0.897)	29855238	241.513	82000(AM)
16 Benzo(a)anthracene	228	11.366	11.291	(0.997)	56115778	471.500	160000(AM)
18 Chrysene	228	11.366	11.338	(0.997)	56581255	507.027	170000(AM)
19 Benzo(b)fluoranthene	252	12.730	12.583	(0.961)	44477877	496.608	170000(AM)
20 Benzo(k)fluoranthene	252	12.771	12.625	(0.964)	6647215	70.4488	24000(AQM)
21 Benzo(a)pyrene	252	13.129	13.036	(0.991)	11077388	123.095	42000(AH)
23 Indeno(1,2,3-cd)pyrene	276	14.909	14.704	(1.125)	13608003	141.815	48000(AH)
24 Dibenzo(a,h)anthracene	278	14.909	14.734	(1.125)	5782857	63.9976	22000(AH)
25 Benzo(g,h,i)perylene	276	15.368	15.145	(1.160)	10613988	114.879	39000(AH)

QC Flag Legend

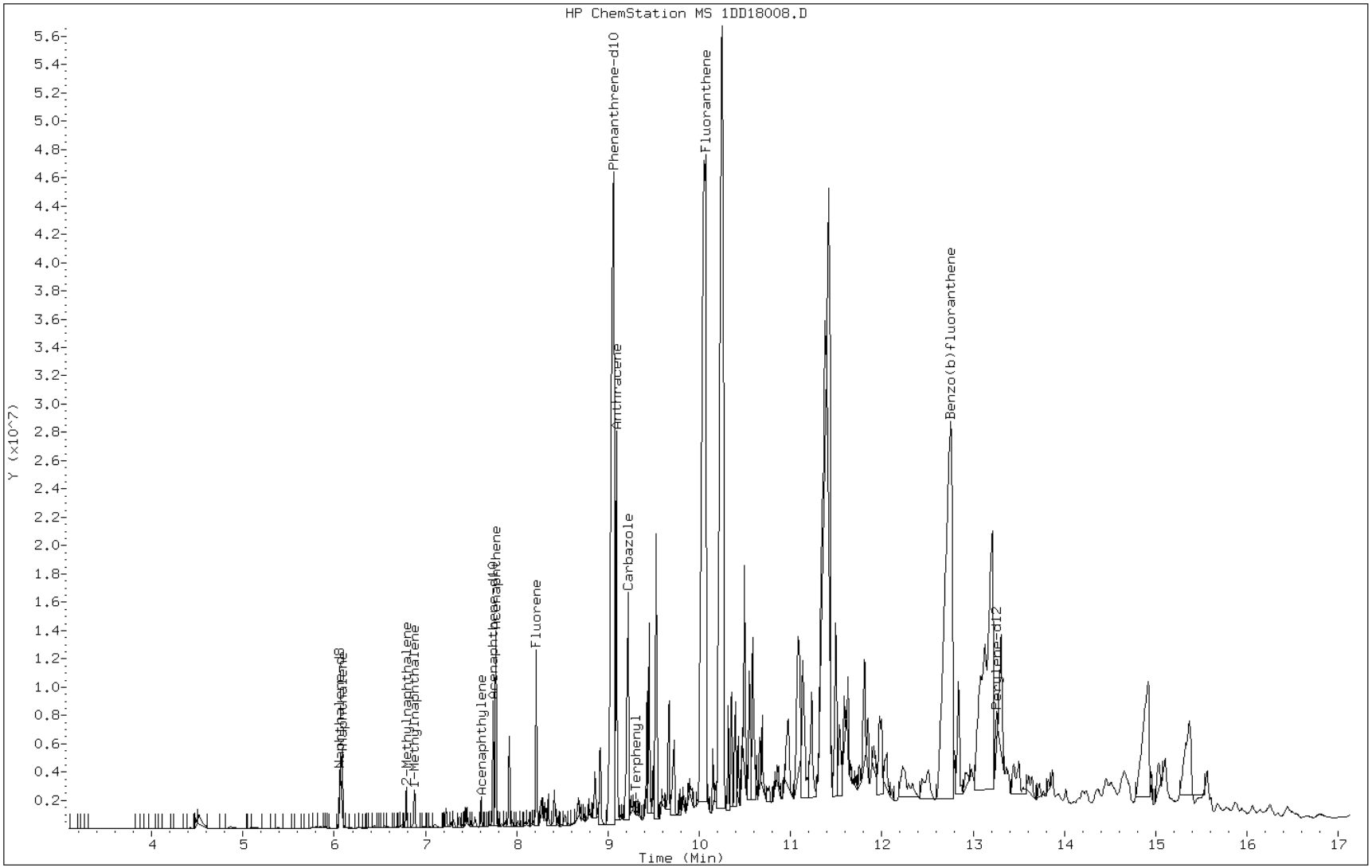
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD18008.D

Date: 18-APR-2013 14:50

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC



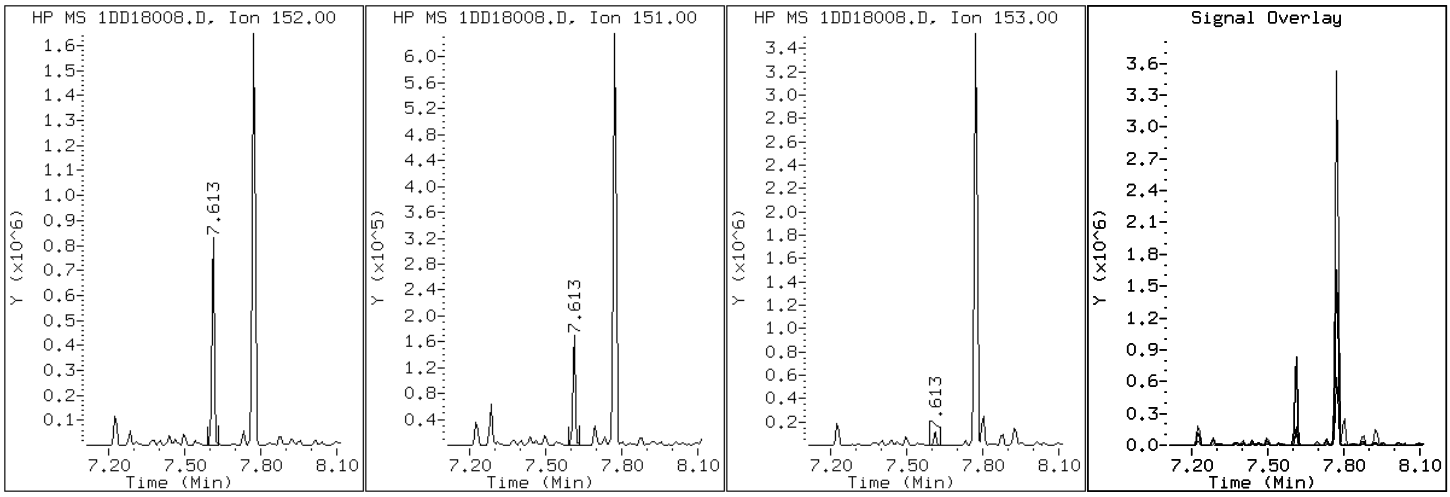
Data File: 1DD18008.D

Date: 18-APR-2013 14:50

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

5 Acenaphthylene



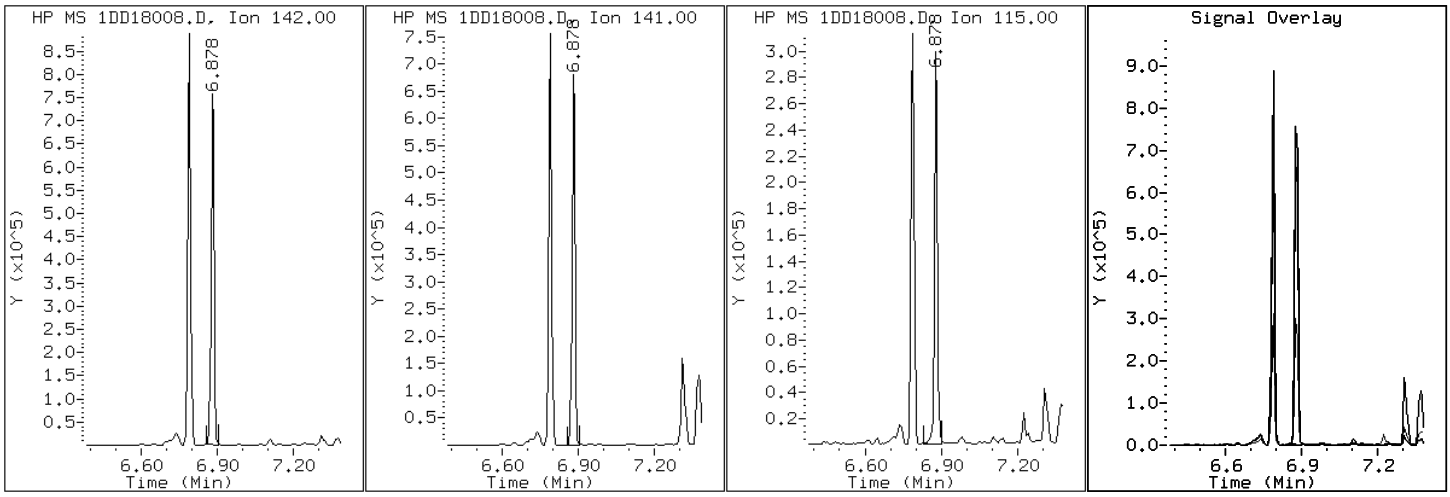
Data File: 1DD18008.D

Date: 18-APR-2013 14:50

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

4 1-Methylnaphthalene



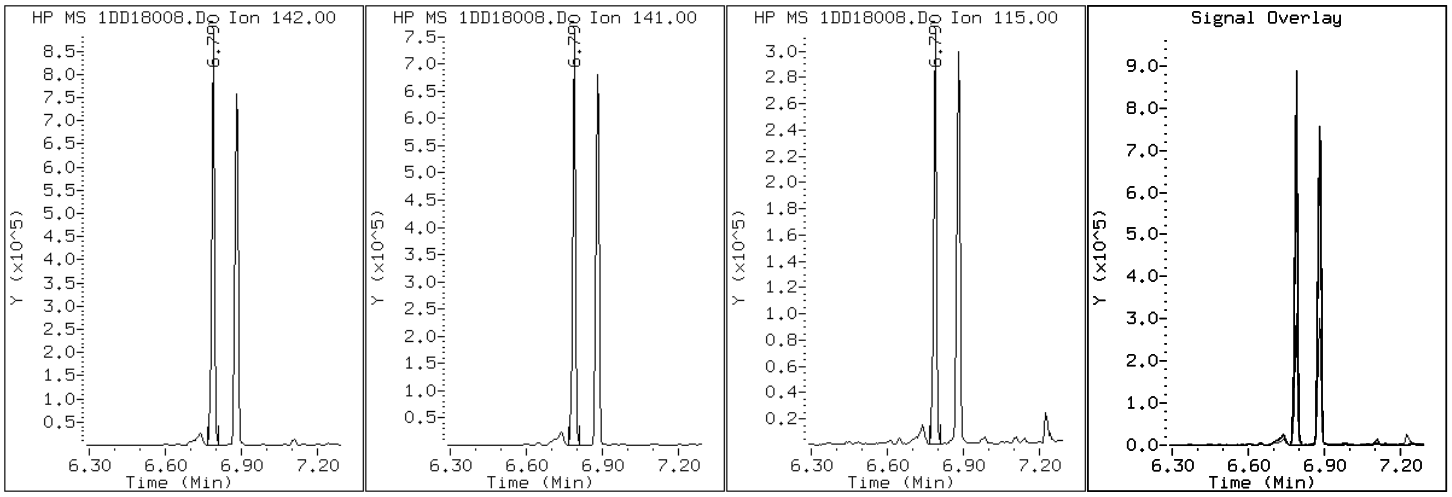
Data File: 1DD18008.D

Date: 18-APR-2013 14:50

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

3 2-Methylnaphthalene



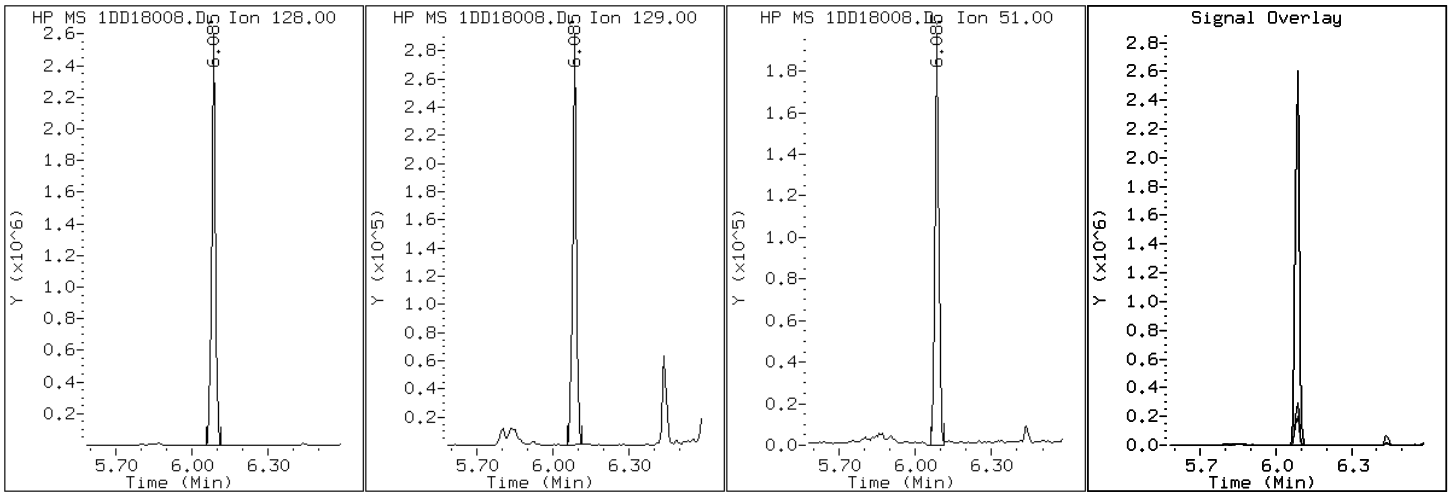
Data File: 1DD18008.D

Date: 18-APR-2013 14:50

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

2 Naphthalene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: CV0886A-CS-SP DL | Lab Sample ID: 680-89275-24 DL

Matrix: Solid | Lab File ID: 1DD18009.D

Analysis Method: 8270C LL | Date Collected: 04/10/2013 13:55

Extract. Method: 3546 | Date Extracted: 04/16/2013 07:00

Sample wt/vol: 14.90(g) | Date Analyzed: 04/18/2013 15:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

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

% Moisture: 21.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	22000		2600	510
120-12-7	Anthracene	48000		210	110
191-24-2	Benzo[g,h,i]perylene	62000		510	110
207-08-9	Benzo[k]fluoranthene	51000		200	92
53-70-3	Dibenz(a,h)anthracene	28000		510	100
86-73-7	Fluorene	22000		510	100
193-39-5	Indeno[1,2,3-cd]pyrene	66000		510	180

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18009.D
Lab Smp Id: 680-89275-A-24-A Client Smp ID: CV0886A-CS-SP
Inj Date : 18-APR-2013 15:19
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89275-A-24-A
Misc Info : 680-89275-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\dFASTPAHi.m
Meth Date : 18-Apr-2013 14:23 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 6
Dil Factor: 20.00000
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	20.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.900	Weight Extracted
M	21.099	% 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/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.066	6.062	(1.000)	2682975	40.0000	
* 6	Acenaphthene-d10	164	7.741	7.742	(1.000)	1700383	40.0000	
* 9	Phenanthrene-d10	188	9.010	8.999	(1.000)	2861742	40.0000	
$ 13	o-Terphenyl	230	9.310	9.311	(1.033)	16028	0.37172	630
* 17	Chrysene-d12	240	11.337	11.314	(1.000)	3457290	40.0000	
* 22	Perylene-d12	264	13.170	13.130	(1.000)	3309078	40.0000	(H)
2	Naphthalene	128	6.084	6.085	(1.003)	681018	10.2122	17000
3	2-Methylnaphthalene	142	6.789	6.790	(1.119)	185927	4.31903	7300
4	1-Methylnaphthalene	142	6.883	6.884	(1.135)	164278	4.04102	6900
5	Acenaphthylene	152	7.612	7.613	(0.983)	161848	2.24890	3800
7	Acenaphthene	154	7.770	7.766	(1.004)	563156	12.6771	22000
8	Fluorene	166	8.211	8.212	(1.061)	688876	13.0950	22000
10	Phenanthrene	178	9.039	9.017	(1.003)	10207100	129.489	220000(A)
11	Anthracene	178	9.069	9.058	(1.007)	2206910	28.2081	48000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.204	9.199	(1.022)	1656917	24.0099	41000
14 Fluoranthene	202	10.020	10.004	(1.112)	13726824	169.226	290000(A)
15 Pyrene	202	10.214	10.192	(0.901)	12495022	120.350	200000(A)
16 Benzo(a)anthracene	228	11.325	11.291	(0.999)	7574028	75.7727	130000(A)
18 Chrysene	228	11.366	11.338	(1.003)	6859398	73.1870	120000(A)
19 Benzo(b)fluoranthene	252	12.641	12.583	(0.960)	9384463	113.529	190000(AH)
20 Benzo(k)fluoranthene	252	12.676	12.625	(0.963)	2626093	30.1558	51000(H)
21 Benzo(a)pyrene	252	13.099	13.036	(0.995)	5494535	66.1549	110000(AH)
23 Indeno(1,2,3-cd)pyrene	276	14.785	14.704	(1.123)	3425396	38.6780	66000(MH)
24 Dibenzo(a,h)anthracene	278	14.791	14.734	(1.123)	1357131	16.2731	28000(H)
25 Benzo(g,h,i)perylene	276	15.226	15.145	(1.156)	3097662	36.3265	62000(H)

QC Flag Legend

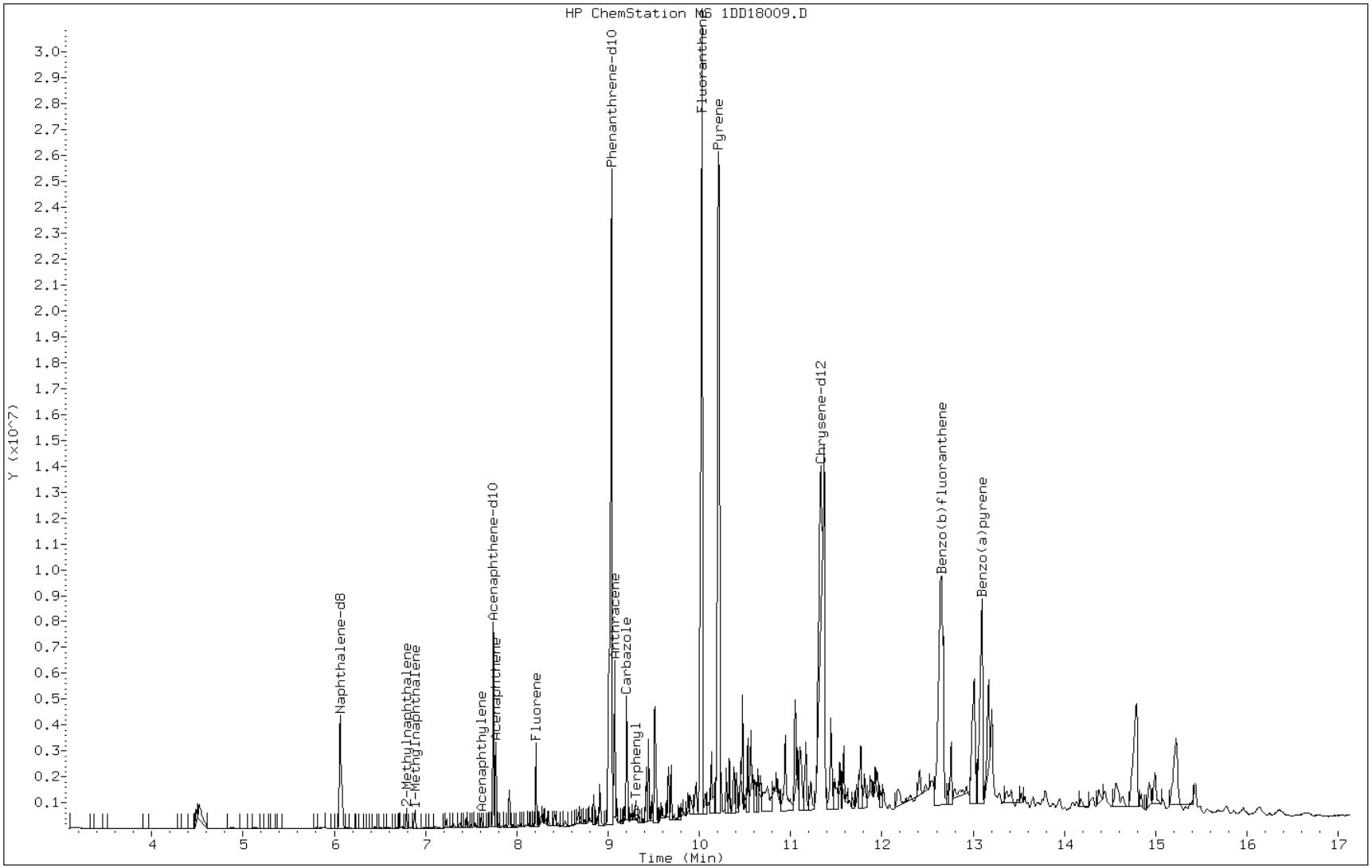
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD18009.D

Date: 18-APR-2013 15:19

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC



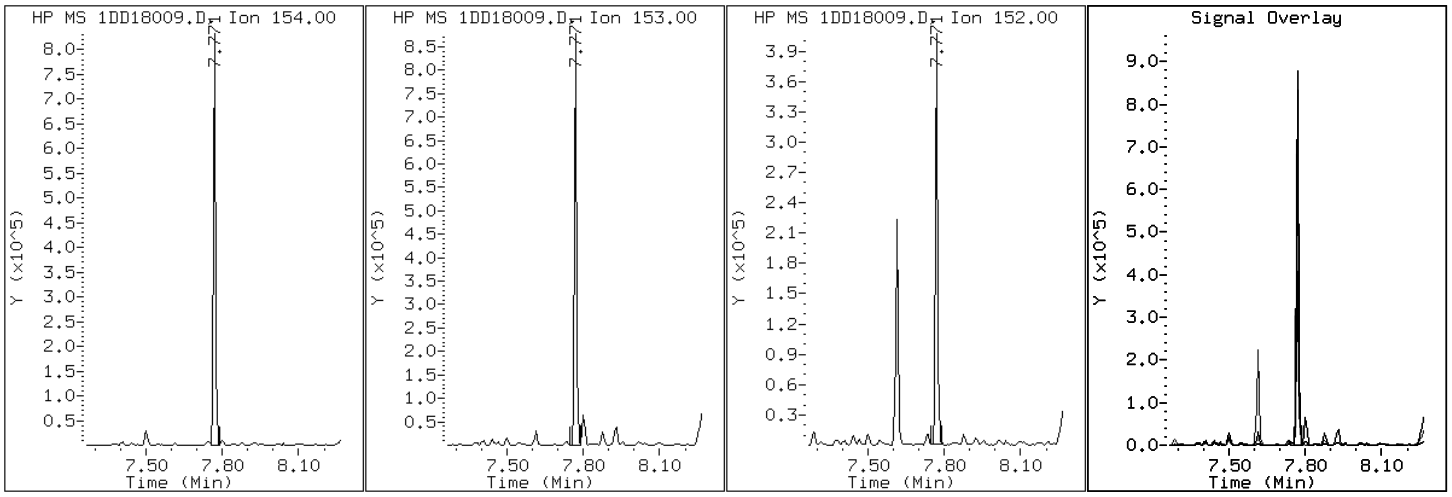
Data File: 1DD18009.D

Date: 18-APR-2013 15:19

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

7 Acenaphthene



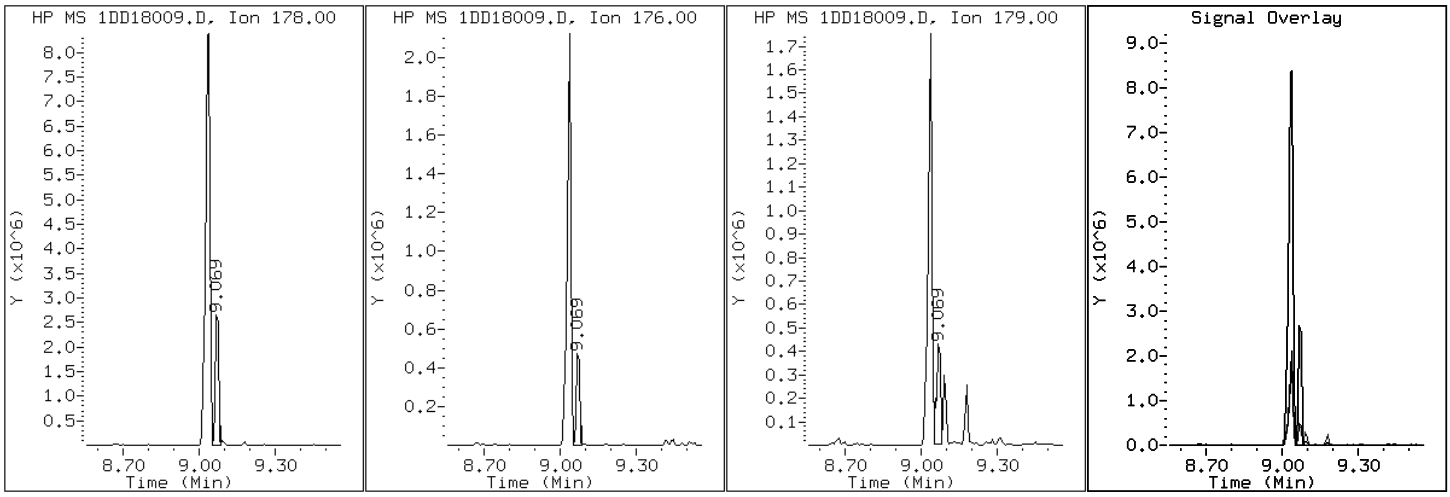
Data File: 1DD18009.D

Date: 18-APR-2013 15:19

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

11 Anthracene



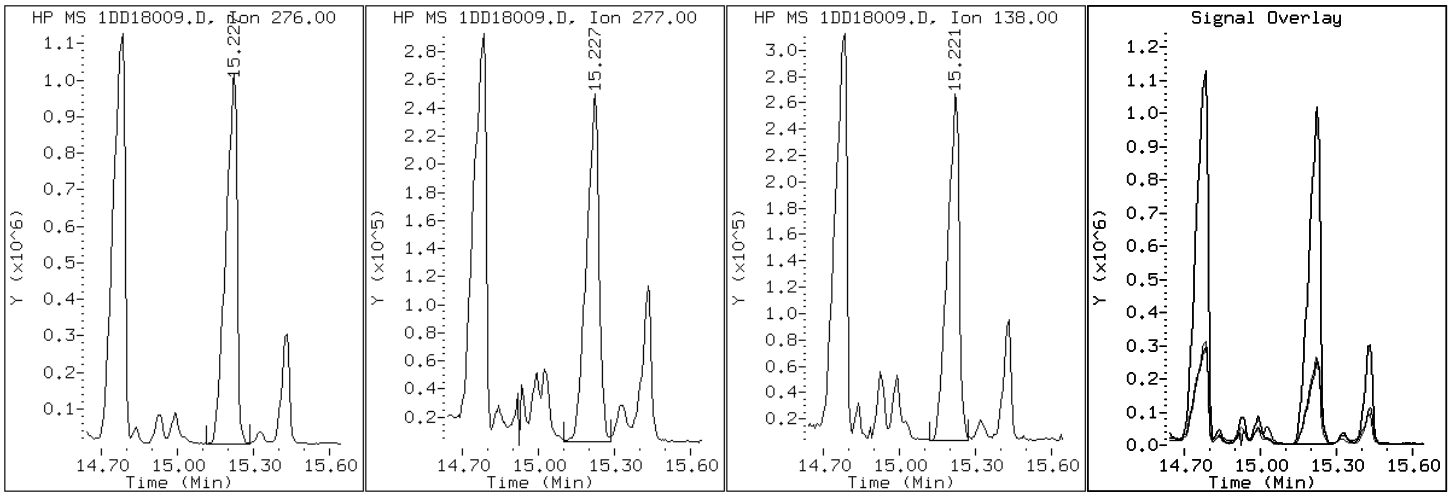
Data File: 1DD18009.D

Date: 18-APR-2013 15:19

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

25 Benzo(g,h,i)perylene



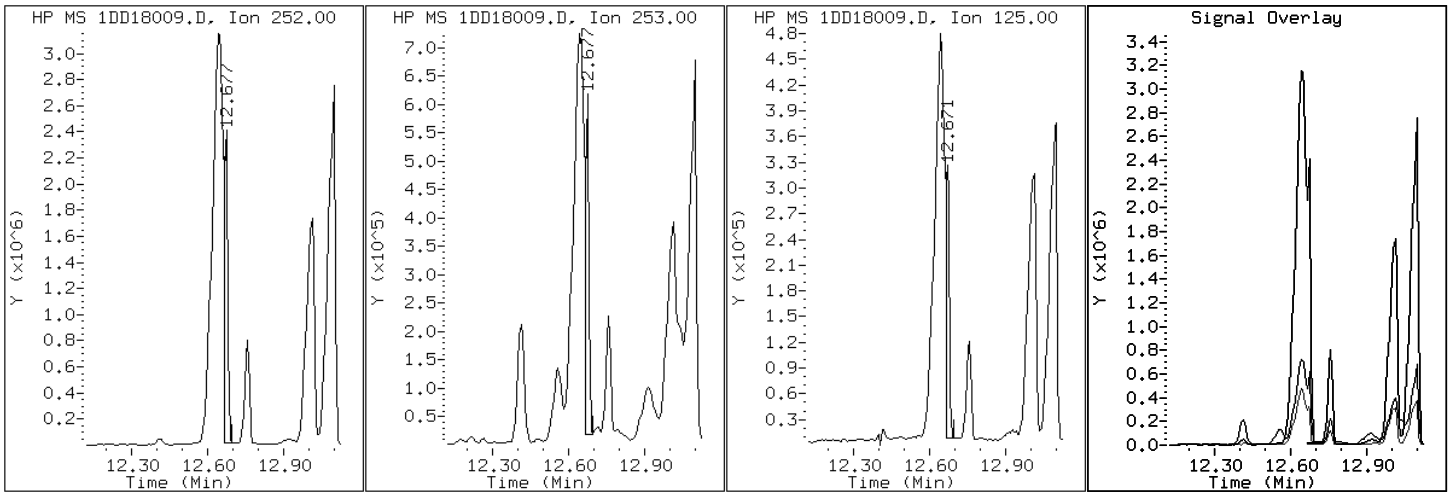
Data File: 1DD18009.D

Date: 18-APR-2013 15:19

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

20 Benzo(k)fluoranthene



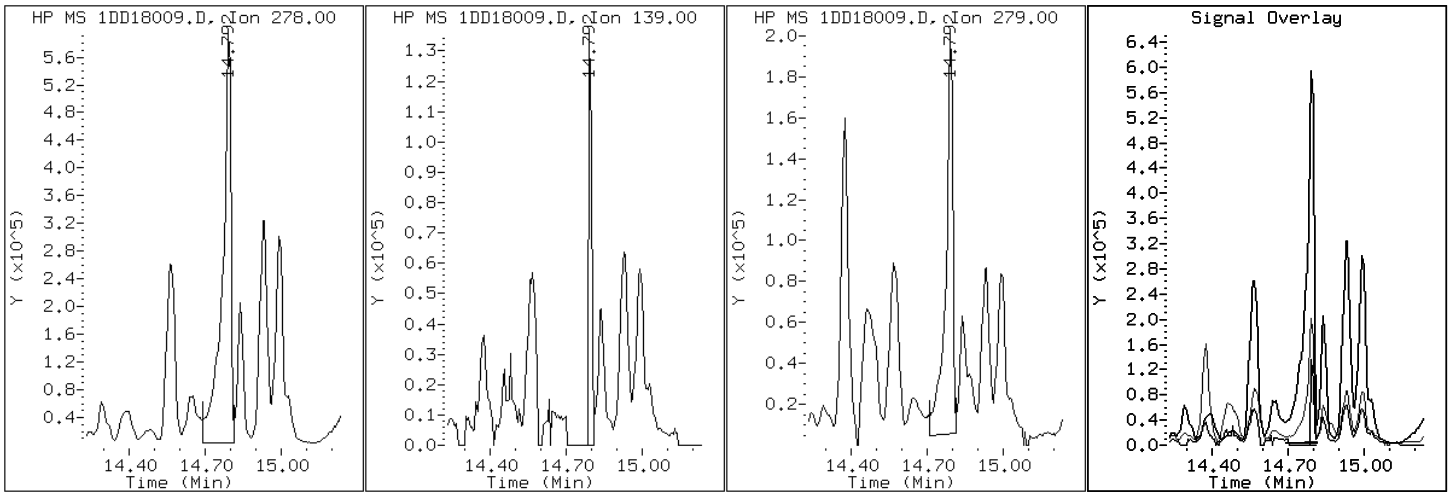
Data File: 1DD18009.D

Date: 18-APR-2013 15:19

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

24 Dibenzo(a,h)anthracene



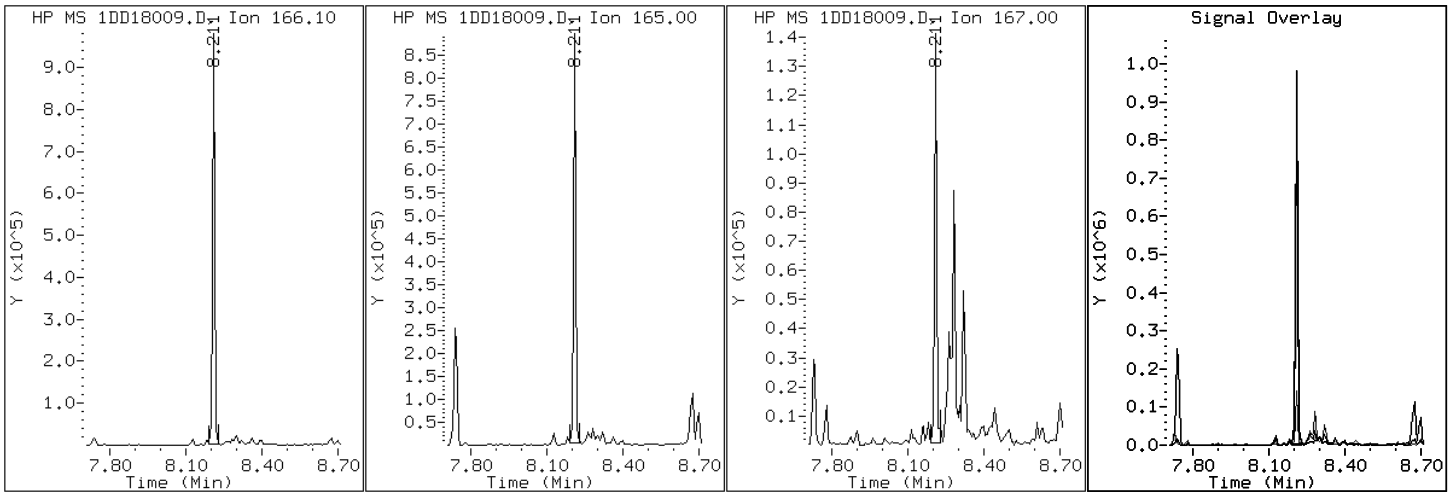
Data File: 1DD18009.D

Date: 18-APR-2013 15:19

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

8 Fluorene



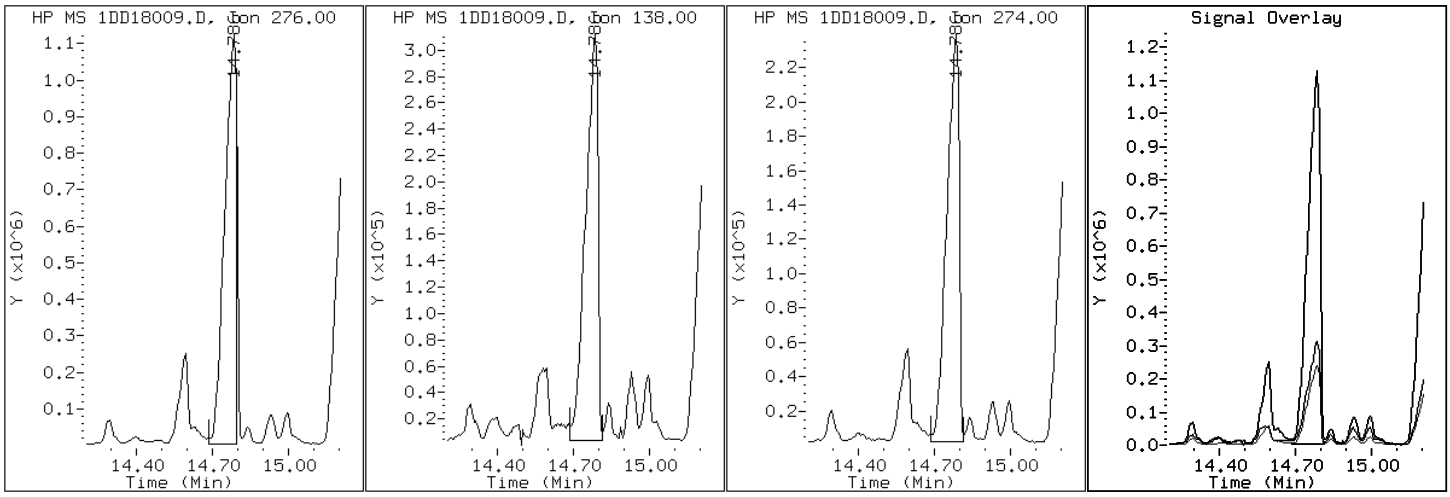
Data File: 1DD18009.D

Date: 18-APR-2013 15:19

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

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



Manual Integration Report

Data File: 1DD18009.D
Inj. Date and Time: 18-APR-2013 15:19
Instrument ID: BSMSD.i
Client ID: CV0886A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/18/2013

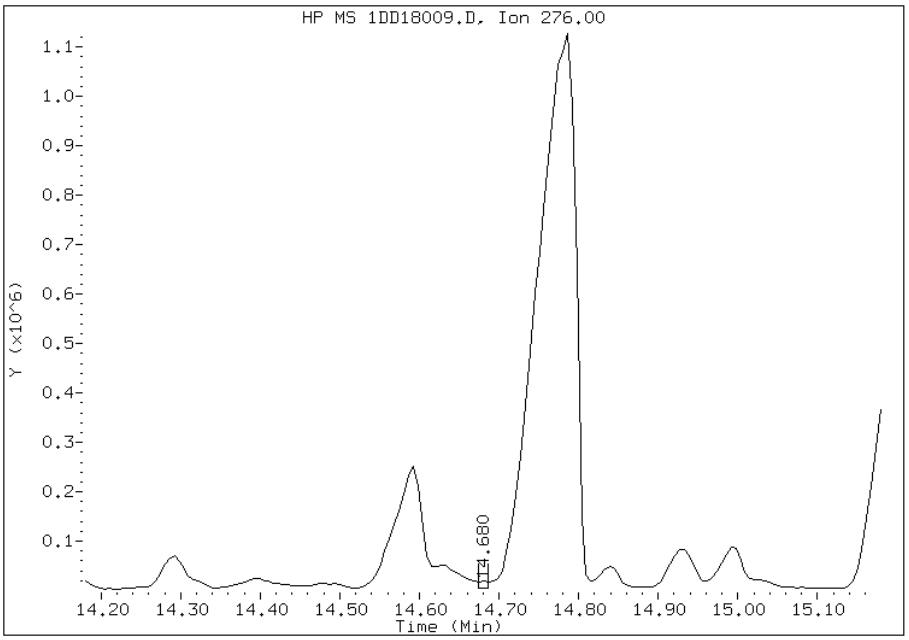
Processing Integration Results

RT: 14.68

Response: 14892

Amount: 0

Conc: 286



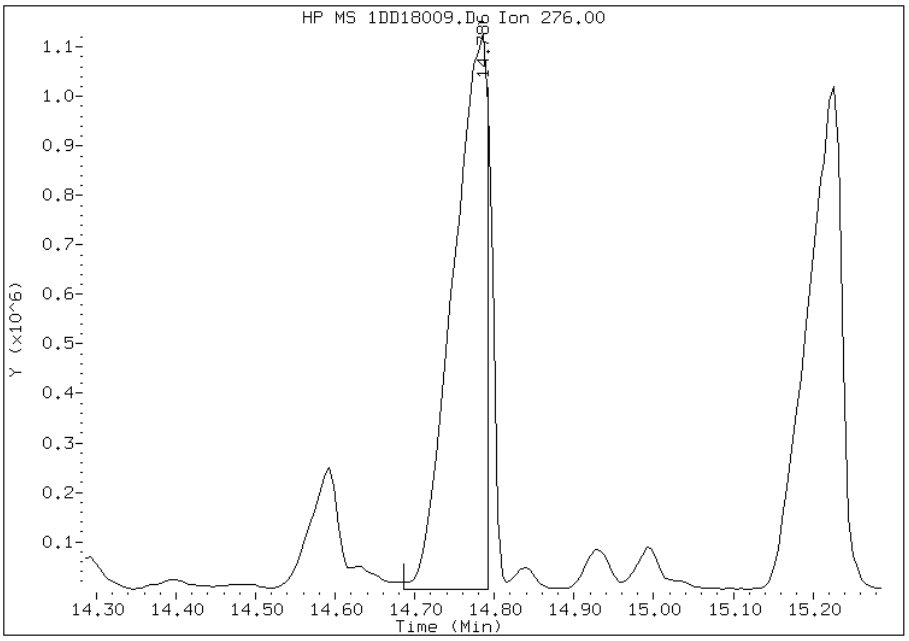
Manual Integration Results

RT: 14.79

Response: 3425396

Amount: 39

Conc: 65800



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 15:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: CV0886A-CS-SP DL2 | Lab Sample ID: 680-89275-24 DL2

Matrix: Solid | Lab File ID: 1DD18010.D

Analysis Method: 8270C LL | Date Collected: 04/10/2013 13:55

Extract. Method: 3546 | Date Extracted: 04/16/2013 07:00

Sample wt/vol: 14.90(g) | Date Analyzed: 04/18/2013 15:48

Con. Extract Vol.: 1(mL) | Dilution Factor: 100

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

% Moisture: 21.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo[a]anthracene	110000		1000	500
50-32-8	Benzo[a]pyrene	91000		1300	660
205-99-2	Benzo[b]fluoranthene	140000		1600	780
218-01-9	Chrysene	100000		1100	570
206-44-0	Fluoranthene	280000		2600	510
85-01-8	Phenanthrene	190000		1000	500
129-00-0	Pyrene	180000		2600	470

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18010.D
Lab Smp Id: 680-89275-A-24-A Client Smp ID: CV0886A-CS-SP
Inj Date : 18-APR-2013 15:48
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89275-A-24-A
Misc Info : 680-89275-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\dFASTPAHi.m
Meth Date : 18-Apr-2013 14:23 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 7
Dil Factor: 100.00000
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	100.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.900	Weight Extracted
M	21.099	% 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/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.063	6.062	(1.000)	2743655	40.0000	
* 6	Acenaphthene-d10	164	7.743	7.742	(1.000)	1731962	40.0000	
* 9	Phenanthrene-d10	188	9.006	8.999	(1.000)	2947931	40.0000	
$ 13	o-Terphenyl	230	9.306	9.311	(1.033)	2853	0.06423	550
* 17	Chrysene-d12	240	11.315	11.314	(1.000)	3205922	40.0000	
* 22	Perylene-d12	264	13.143	13.130	(1.000)	3238290	40.0000	
2	Naphthalene	128	6.086	6.085	(1.004)	121747	1.78528	15000
3	2-Methylnaphthalene	142	6.791	6.790	(1.120)	32640	0.74145	6300
4	1-Methylnaphthalene	142	6.879	6.884	(1.135)	28636	0.68883	5800
5	Acenaphthylene	152	7.614	7.613	(0.983)	28608	0.39026	3300
7	Acenaphthene	154	7.766	7.766	(1.003)	97055	2.14495	18000
8	Fluorene	166	8.207	8.212	(1.060)	120420	2.24735	19000
10	Phenanthrene	178	9.024	9.017	(1.002)	1811184	22.3053	190000
11	Anthracene	178	9.059	9.058	(1.006)	355127	4.40642	37000

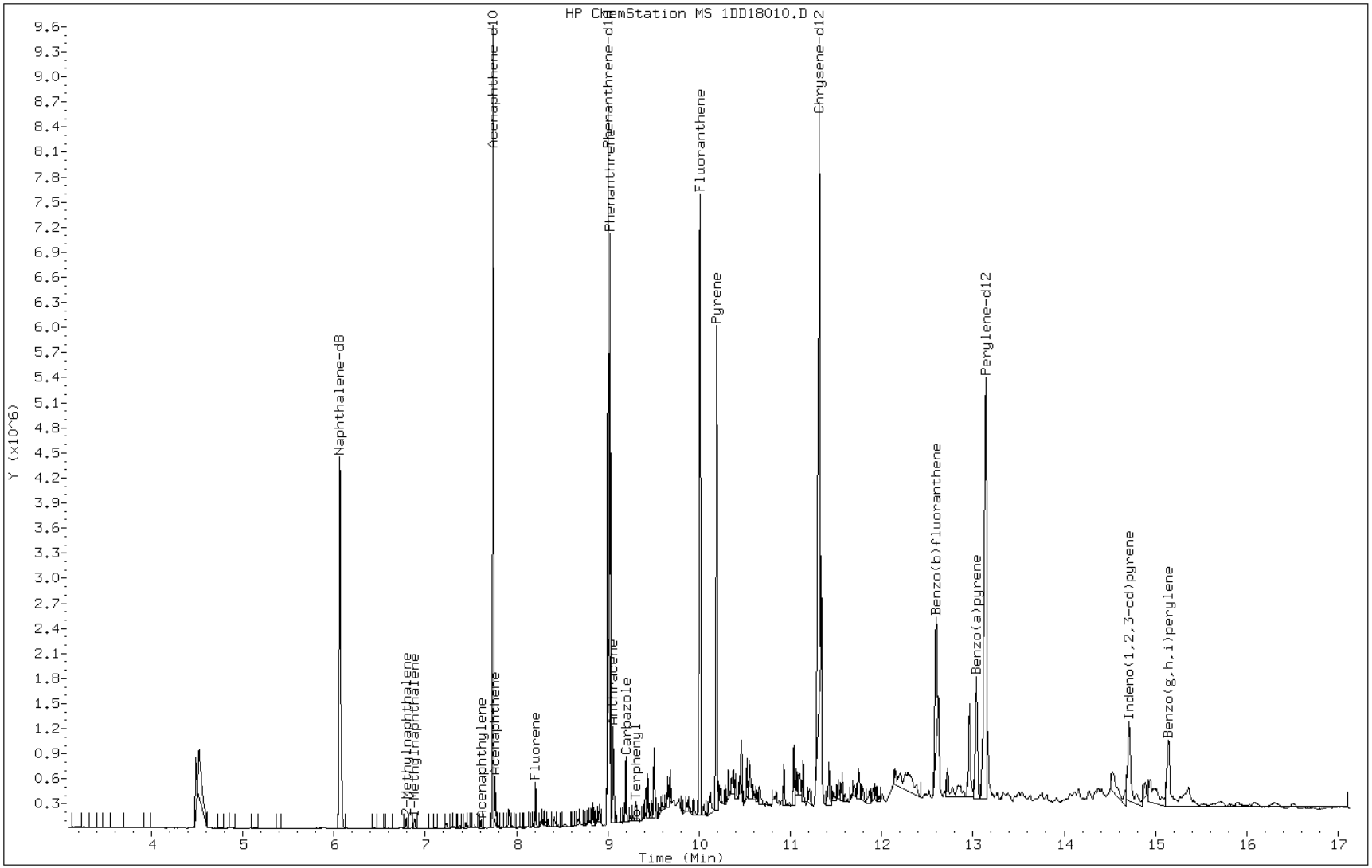
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.200	9.199	(1.022)	273946	3.85361	33000
14 Fluoranthene	202	10.011	10.004	(1.112)	2703220	32.3512	280000
15 Pyrene	202	10.193	10.192	(0.901)	2028326	21.0684	180000
16 Benzo(a)anthracene	228	11.298	11.291	(0.998)	1174688	12.6734	110000
18 Chrysene	228	11.339	11.338	(1.002)	1059461	12.1903	100000
19 Benzo(b)fluoranthene	252	12.596	12.583	(0.958)	1368507	16.9174	140000
20 Benzo(k)fluoranthene	252	12.625	12.625	(0.961)	537615	6.30846	54000
21 Benzo(a)pyrene	252	13.043	13.036	(0.992)	874191	10.7555	91000
23 Indeno(1,2,3-cd)pyrene	276	14.711	14.704	(1.119)	635128	7.32834	62000
24 Dibenzo(a,h)anthracene	278	14.723	14.734	(1.120)	184693	2.26302	19000
25 Benzo(g,h,i)perylene	276	15.146	15.145	(1.152)	563645	6.75439	57000

Data File: 1DD18010.D

Date: 18-APR-2013 15:48

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC



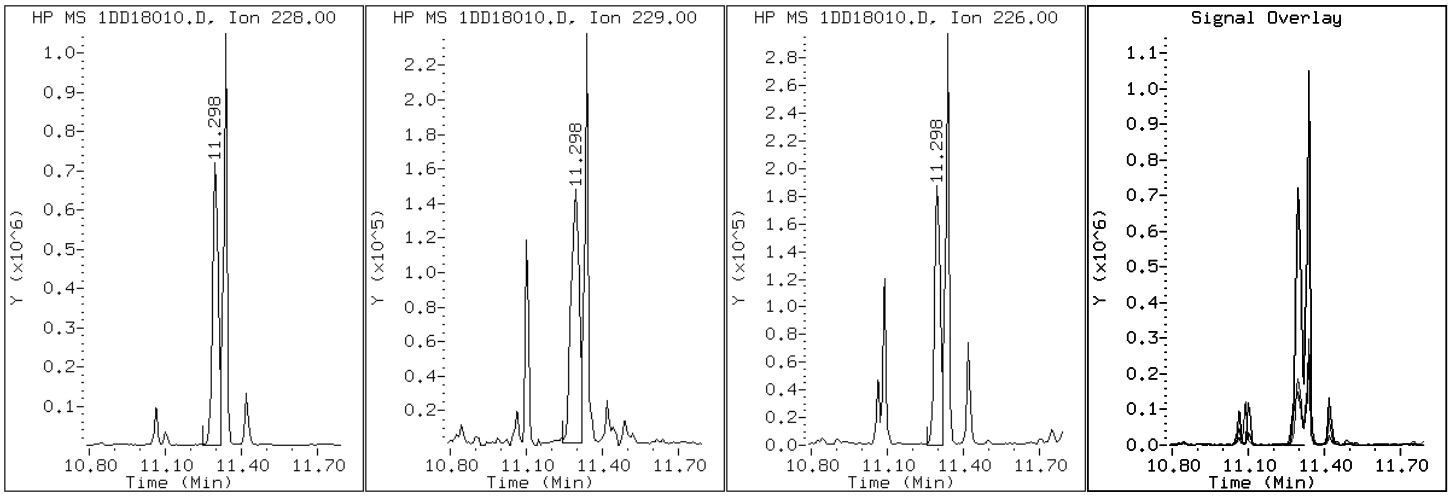
Data File: 1DD18010.D

Date: 18-APR-2013 15:48

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

16 Benzo(a)anthracene



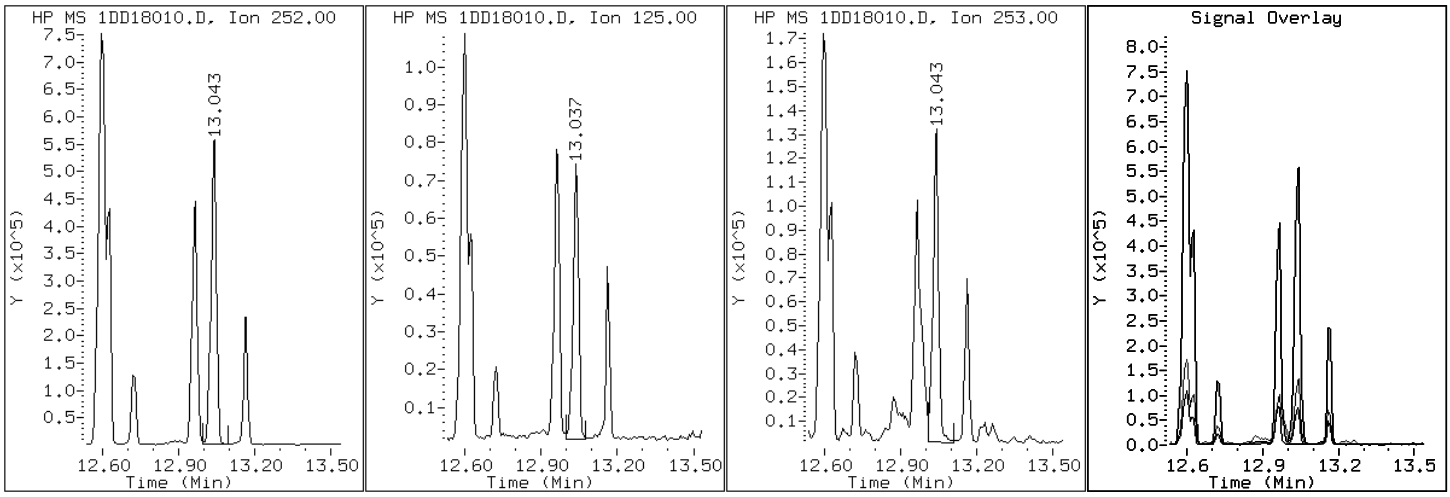
Data File: 1DD18010.D

Date: 18-APR-2013 15:48

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

21 Benzo(a)pyrene



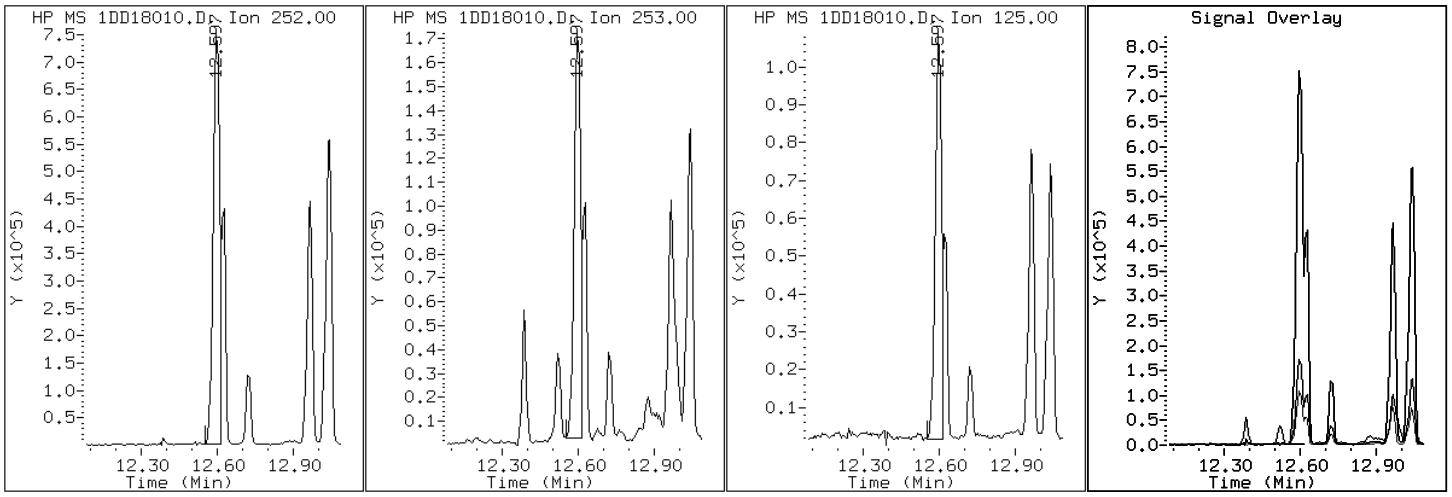
Data File: 1DD18010.D

Date: 18-APR-2013 15:48

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

19 Benzo(b)fluoranthene



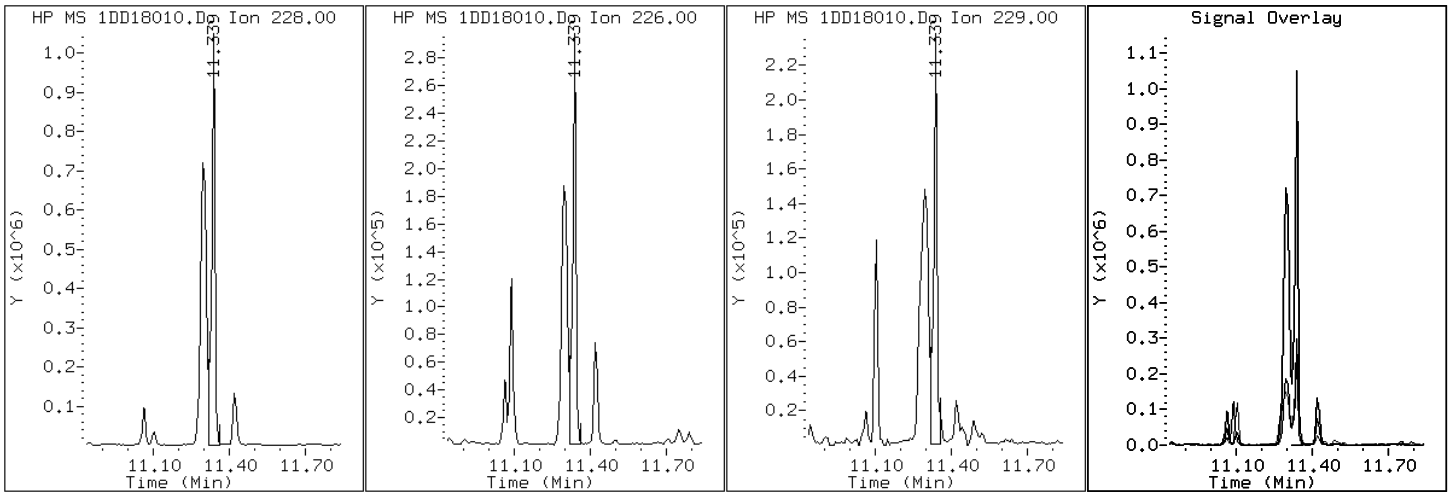
Data File: 1DD18010.D

Date: 18-APR-2013 15:48

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

18 Chrysene



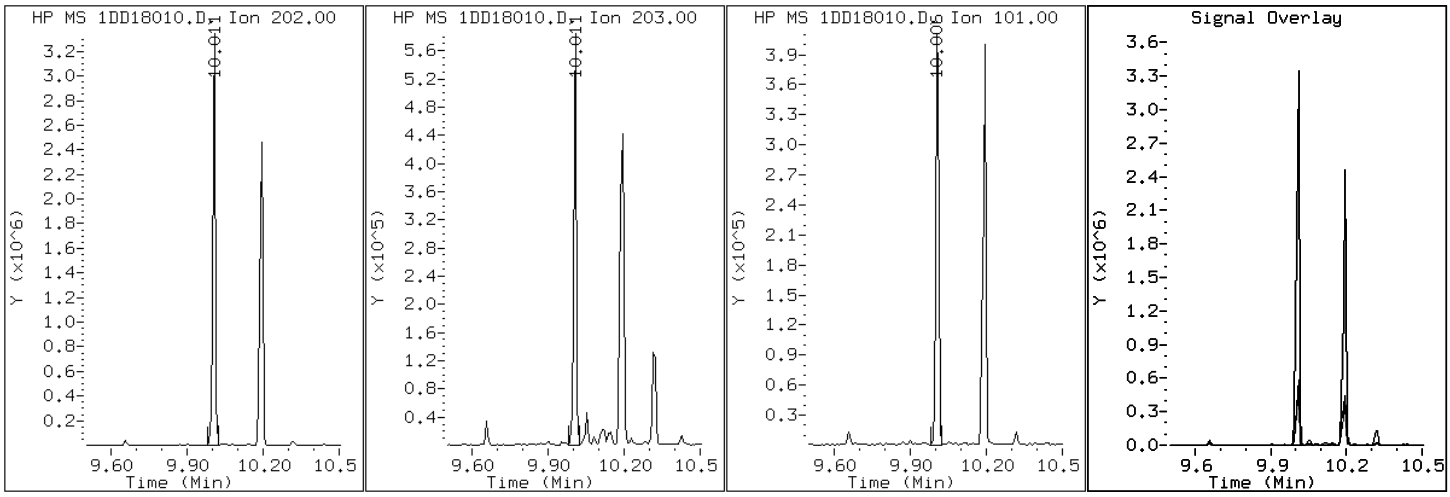
Data File: 1DD18010.D

Date: 18-APR-2013 15:48

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

14 Fluoranthene



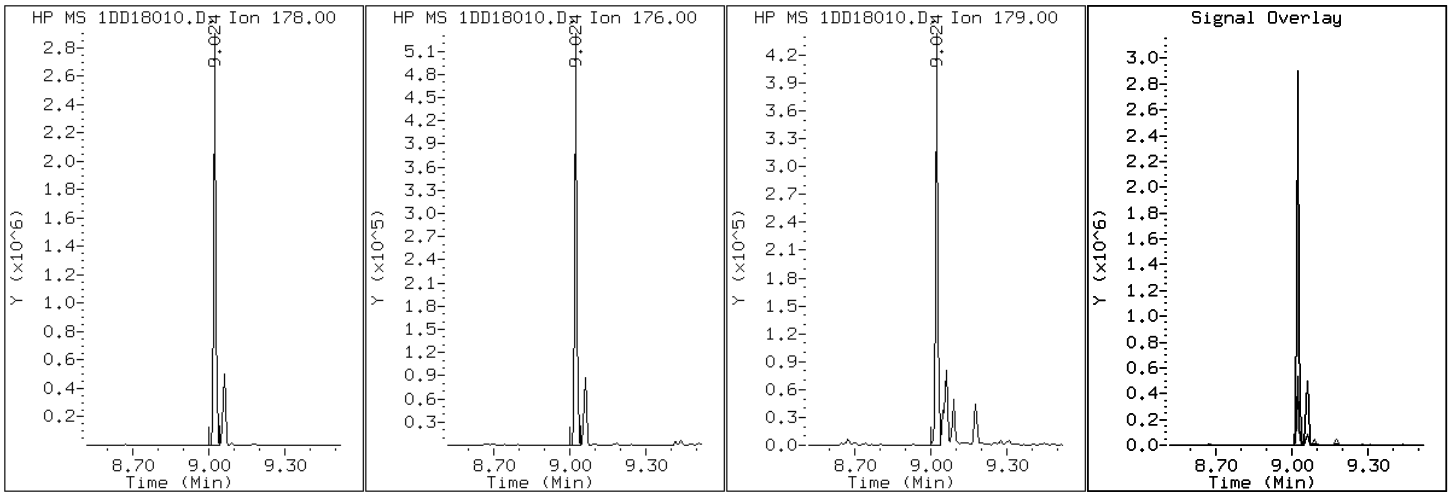
Data File: 1DD18010.D

Date: 18-APR-2013 15:48

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

10 Phenanthrene



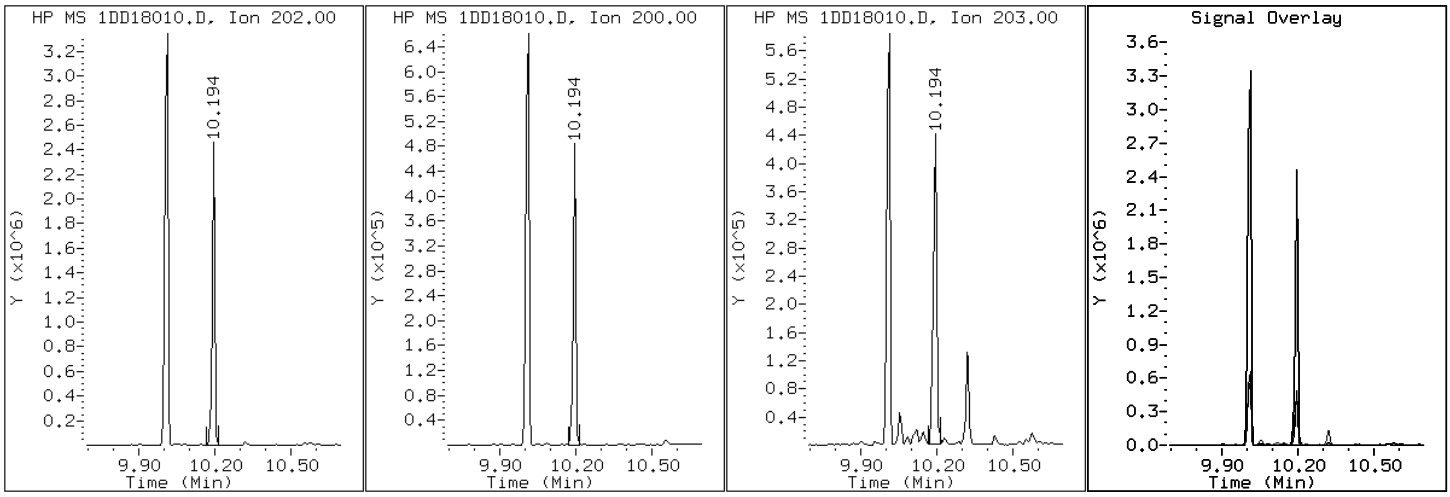
Data File: 1DD18010.D

Date: 18-APR-2013 15:48

Client ID: CV0886A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89275-A-24-A Operator: SCC

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: CV0886B-CS-SP | Lab Sample ID: 680-89275-25

Matrix: Solid | Lab File ID: 1CD22009.D

Analysis Method: 8270C LL | Date Collected: 04/10/2013 14:05

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.28(g) | Date Analyzed: 04/22/2013 14:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 31.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	6500		1400	290
208-96-8	Acenaphthylene	700		570	72
120-12-7	Anthracene	11000		120	60
56-55-3	Benzo[a]anthracene	34000		110	56
50-32-8	Benzo[a]pyrene	27000		150	75
205-99-2	Benzo[b]fluoranthene	46000		180	88
191-24-2	Benzo[g,h,i]perylene	17000		290	63
207-08-9	Benzo[k]fluoranthene	19000		110	52
218-01-9	Chrysene	30000		130	65
53-70-3	Dibenz(a,h)anthracene	5400		290	59
86-73-7	Fluorene	5900		290	59
193-39-5	Indeno[1,2,3-cd]pyrene	15000		290	100
90-12-0	1-Methylnaphthalene	2000		570	63
91-57-6	2-Methylnaphthalene	2300		570	100
91-20-3	Naphthalene	5300		570	63

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22009.D
Lab Smp Id: 680-89275-A-25-A Client Smp ID: CV0886B-CS-SP
Inj Date : 22-APR-2013 14:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89275-A-25-A
Misc Info : 680-89275-A-25-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 9
Dil Factor: 10.00000
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	10.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.280	Weight Extracted
M	31.657	% 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	3.651	3.651	(1.000)	223015	40.0000	
* 6 Acenaphthene-d10	164	4.739	4.739	(1.000)	154136	40.0000	
* 10 Phenanthrene-d10	188	5.692	5.680	(1.000)	285956	40.0000	
* 18 Chrysene-d12	240	7.627	7.615	(1.000)	396524	40.0000	
* 23 Perylene-d12	264	8.798	8.762	(1.000)	359199	40.0000	(H)
2 Naphthalene	128	3.663	3.663	(1.003)	33521	5.56047	5324.6752
3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	8678	2.42511	2322.2689
4 1-Methylnaphthalene	142	4.157	4.151	(1.139)	8177	2.12349	2033.4393
5 Acenaphthylene	152	4.651	4.651	(0.981)	4801	0.73507	703.9023
7 Acenaphthene	154	4.763	4.757	(1.005)	26794	6.80733	6518.6615
9 Fluorene	166	5.080	5.080	(1.072)	30834	6.15583	5894.7872
11 Phenanthrene	178	5.704	5.698	(1.002)	505509	61.3857	58782.6069(A)
12 Anthracene	178	5.739	5.733	(1.008)	98750	11.8953	11390.8446
13 Carbazole	167	5.845	5.839	(1.027)	82192	10.6305	10179.7132

						CONCENTRATIONS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.539	6.527	(1.149)	888180	95.7454	91685.2369(A)
16 Pyrene	202	6.704	6.692	(0.879)	617707	54.7579	52435.8253(A)
17 Benzo(a)anthracene	228	7.621	7.603	(0.999)	399194	35.6013	34091.5378
19 Chrysene	228	7.645	7.633	(1.002)	342945	30.9172	29606.0998
20 Benzo(b)fluoranthene	252	8.462	8.433	(0.962)	433990	47.8360	45807.4870(MH)
21 Benzo(k)fluoranthene	252	8.480	8.456	(0.964)	202230	19.6991	18863.7024(M)
22 Benzo(a)pyrene	252	8.745	8.709	(0.994)	263833	28.1330	26940.0072(H)
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.874	(1.126)	137145	15.3593	14707.9734(M)
25 Dibenzo(a,h)anthracene	278	9.921	9.886	(1.128)	47878	5.65228	5412.5902(H)
26 Benzo(g,h,i)perylene	276	10.245	10.209	(1.164)	152764	17.3791	16642.1336(H)

QC Flag Legend

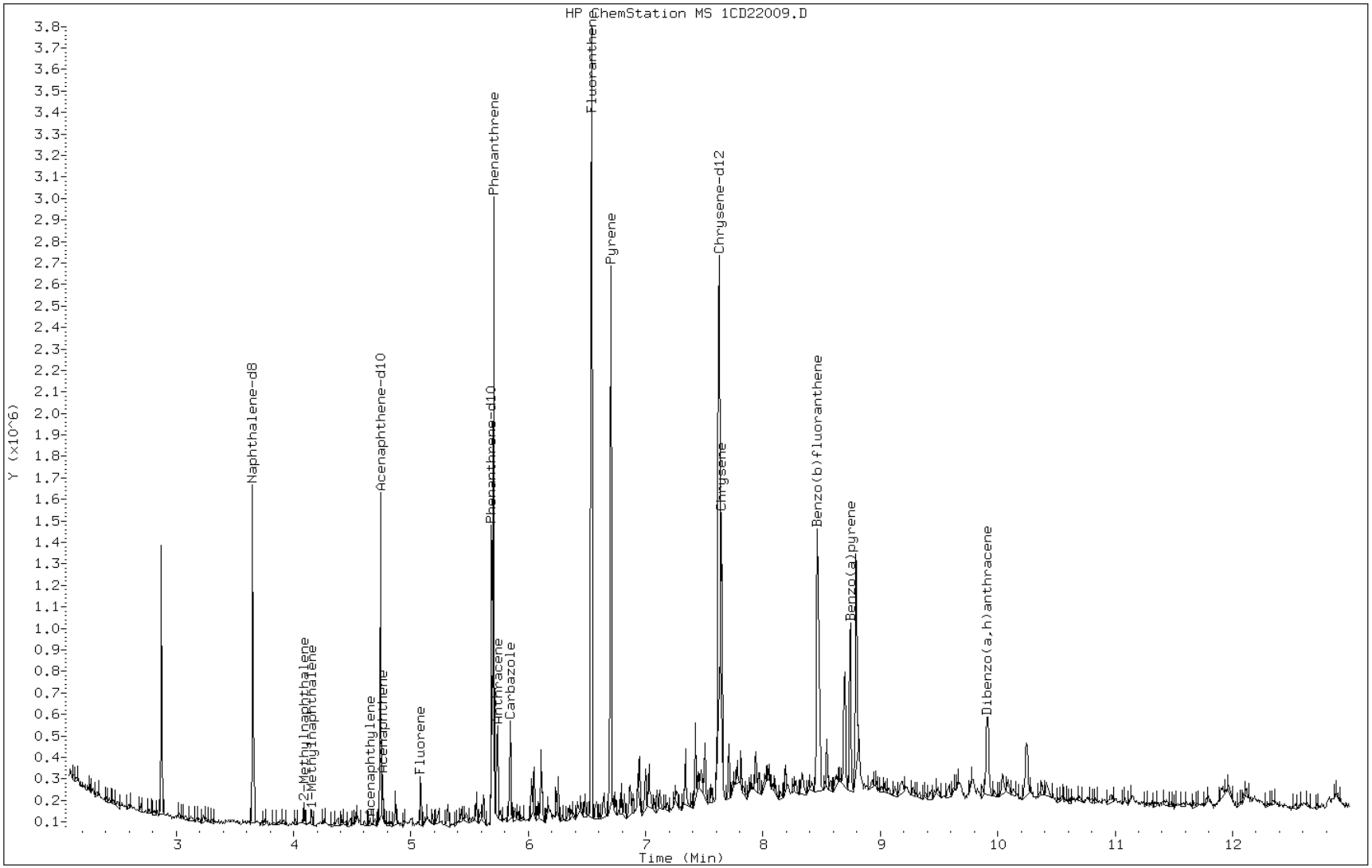
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC



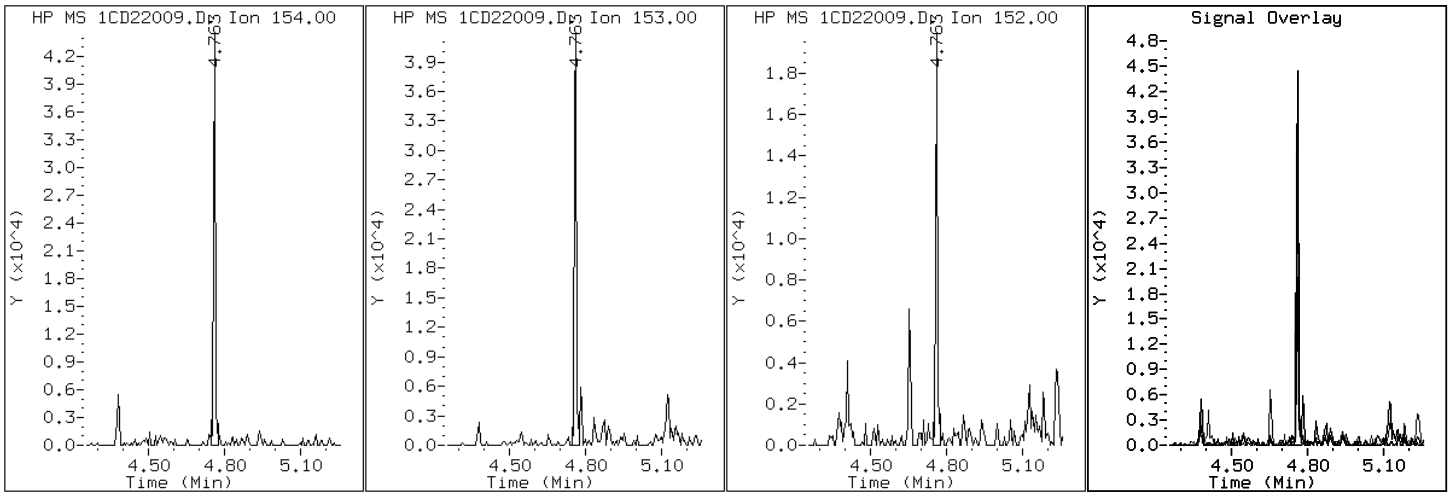
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

7 Acenaphthene



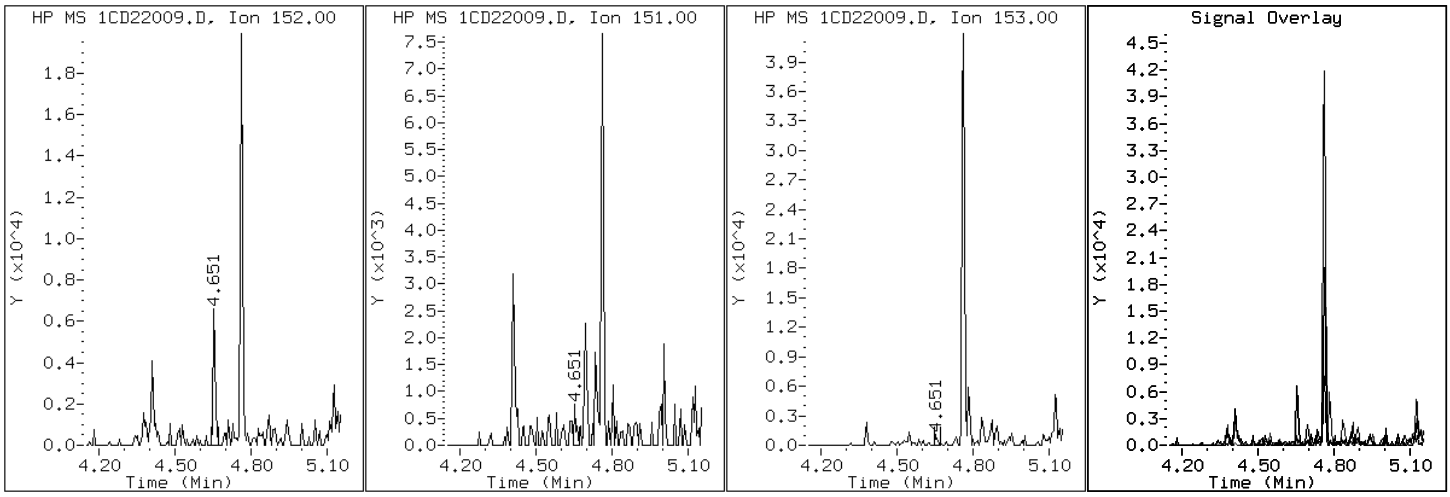
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

5 Acenaphthylene



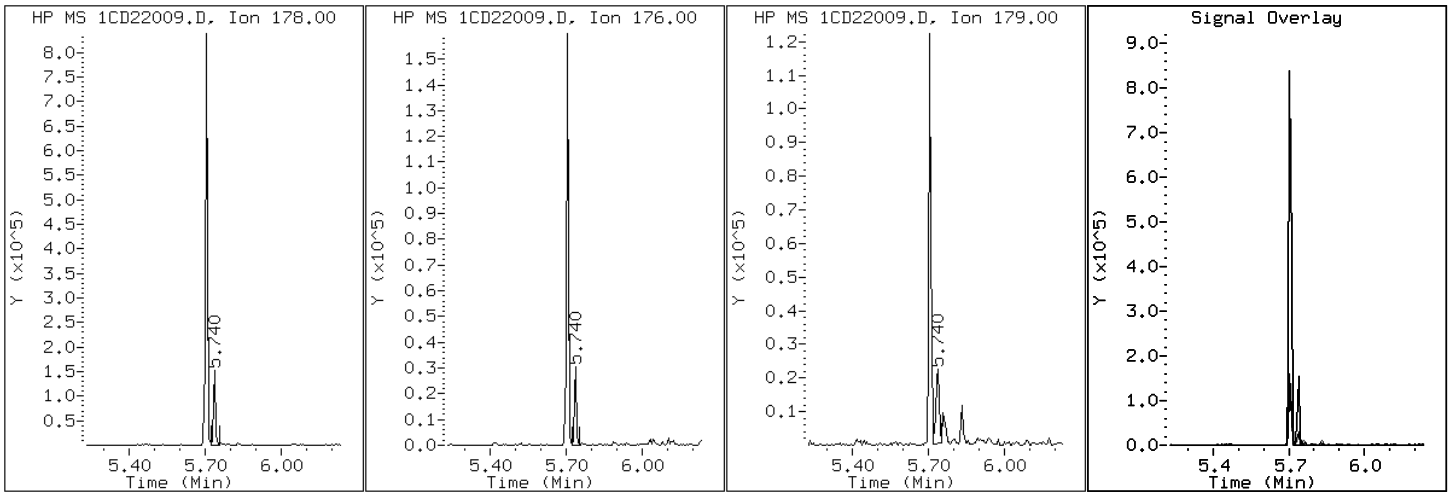
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

12 Anthracene



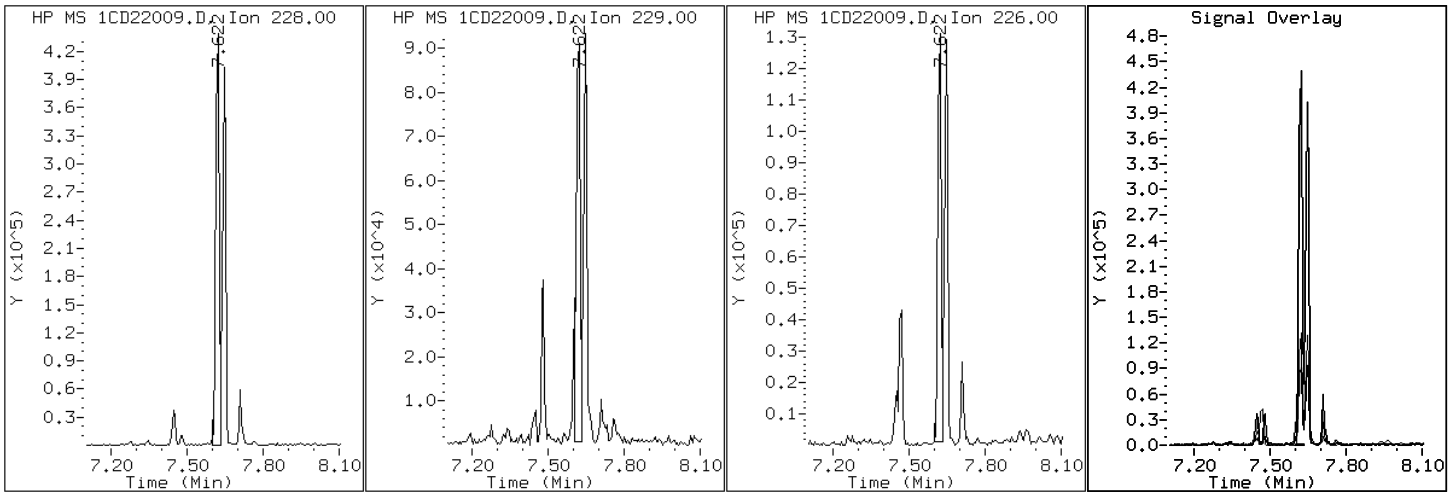
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

17 Benzo(a)anthracene



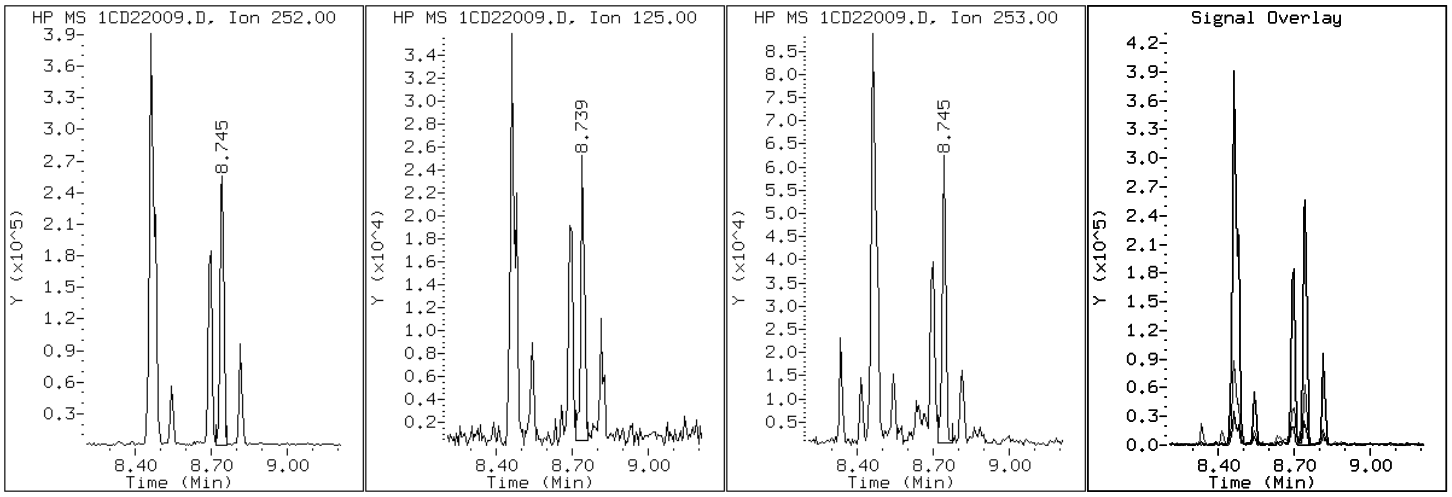
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

22 Benzo(a)pyrene



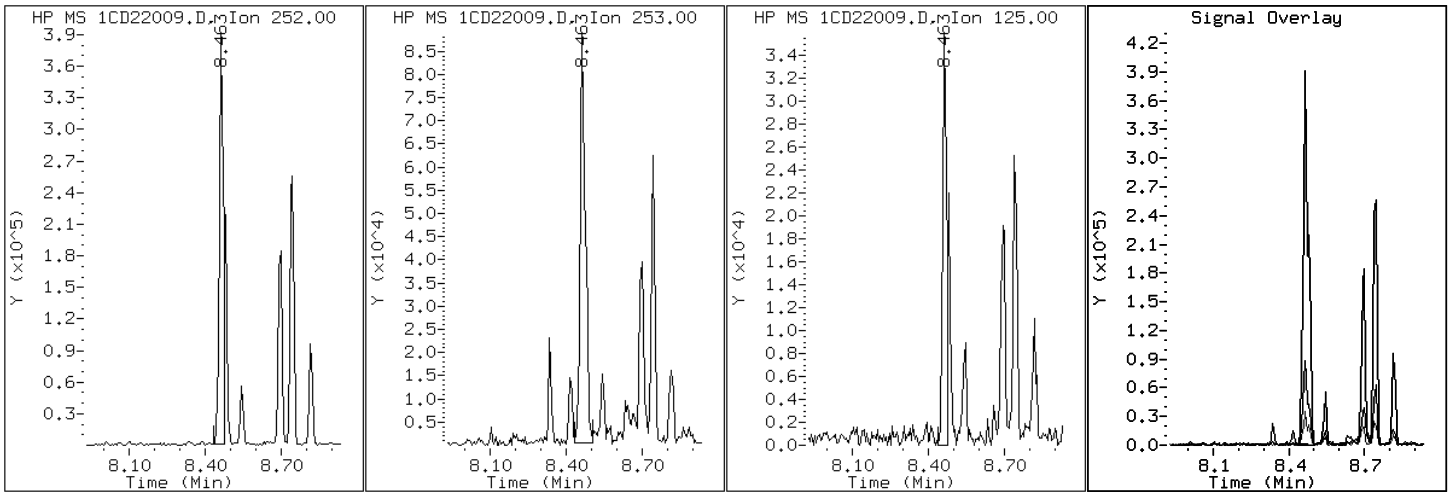
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

20 Benzo(b)fluoranthene



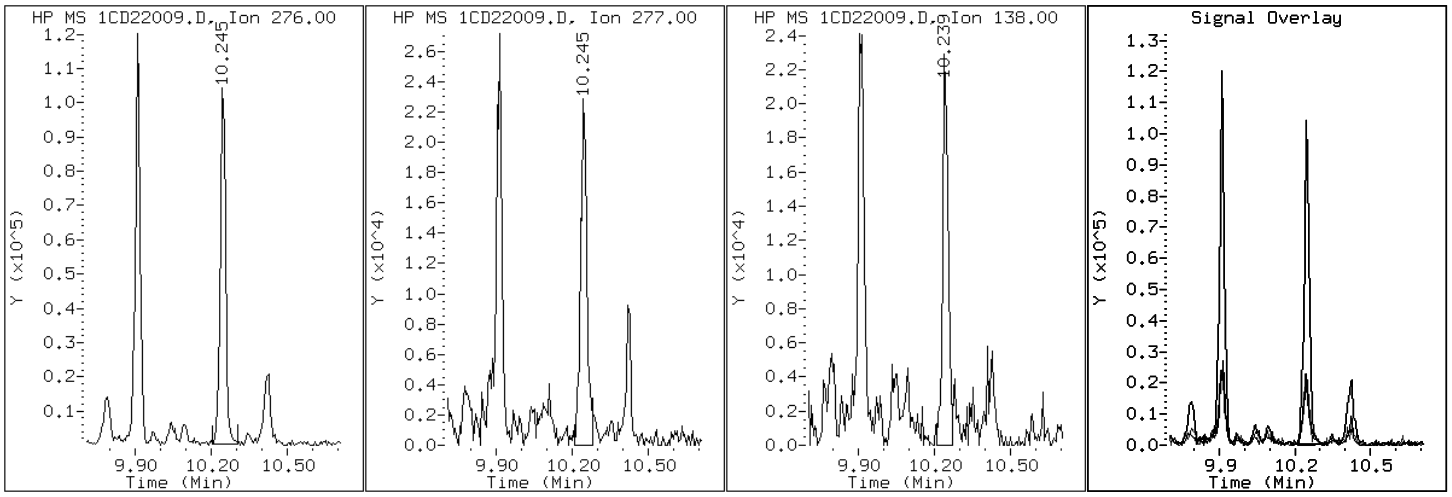
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

26 Benzo(g,h,i)perylene



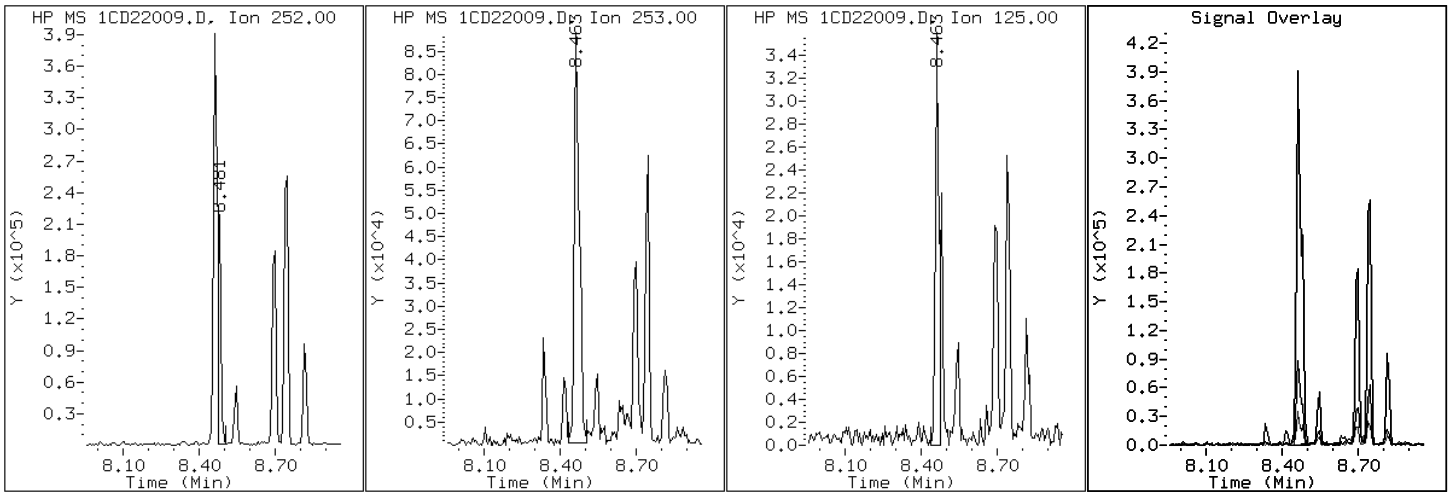
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

21 Benzo(k)fluoranthene



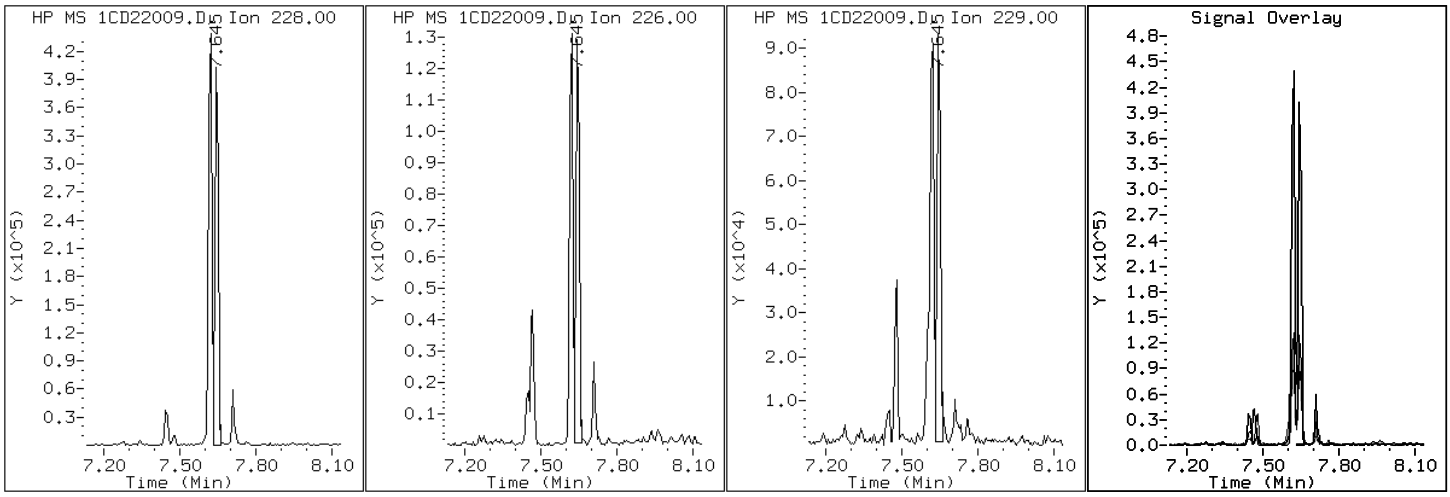
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

19 Chrysene



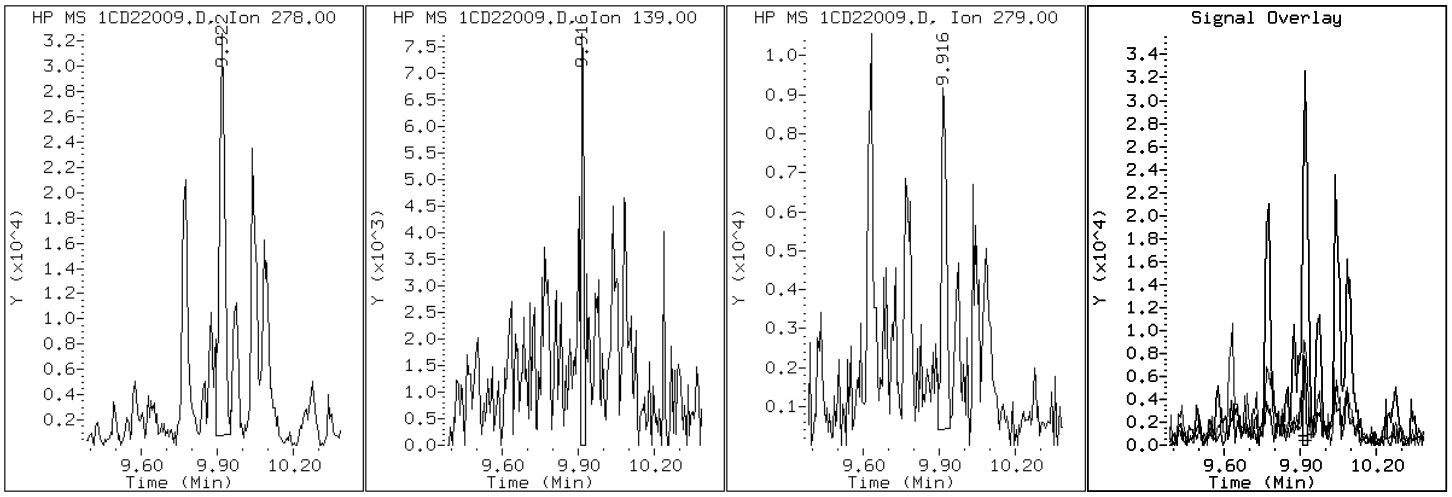
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

25 Dibenzo(a,h)anthracene



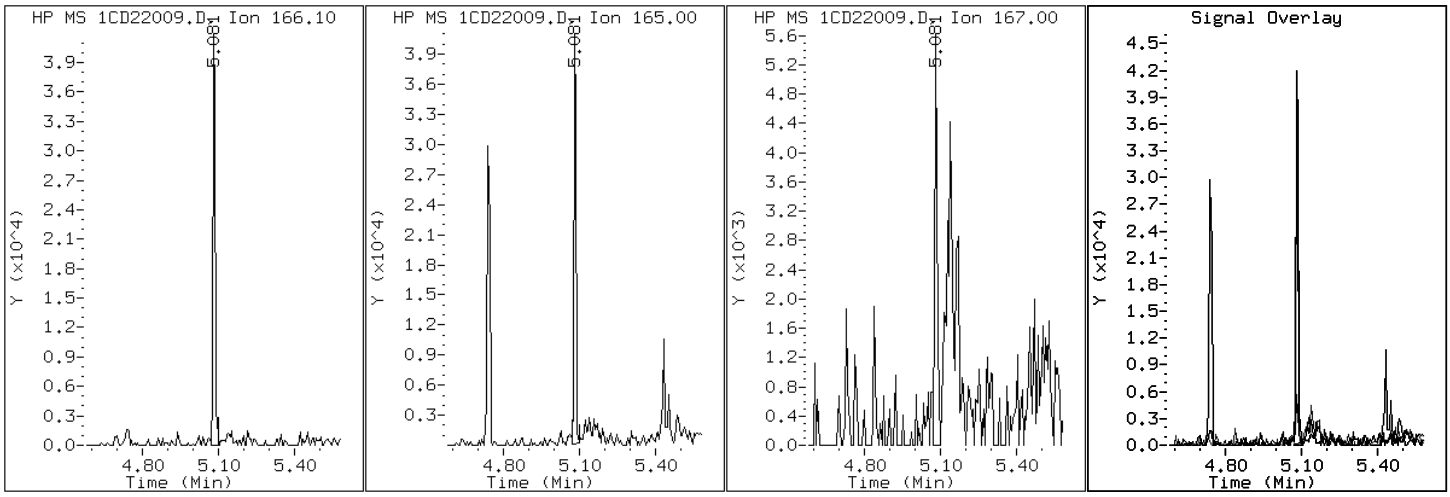
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

9 Fluorene



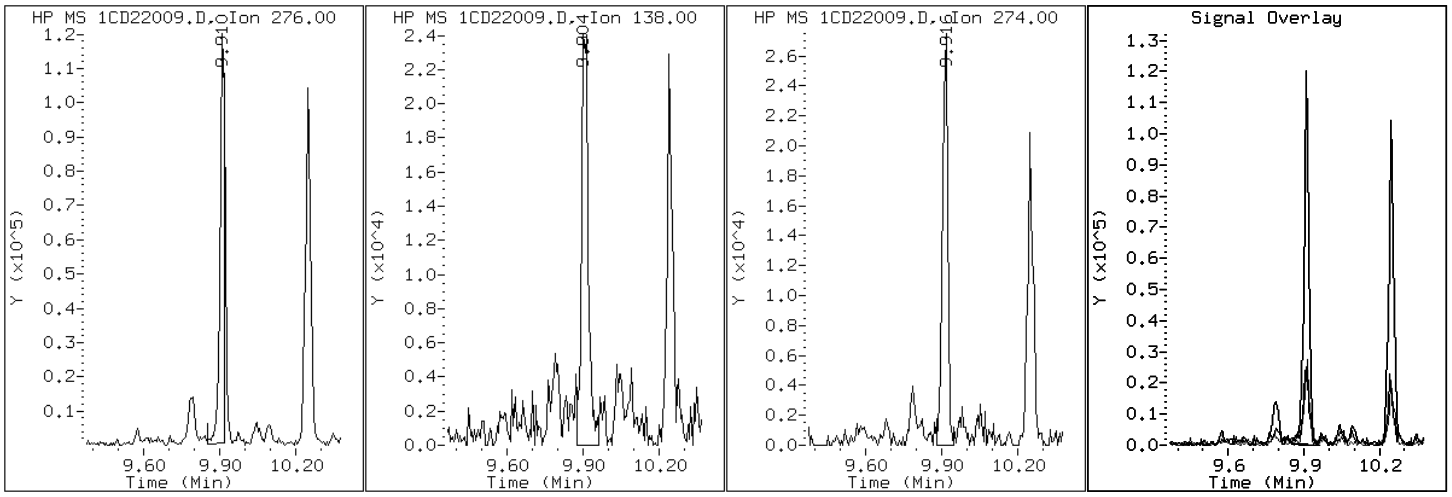
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

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



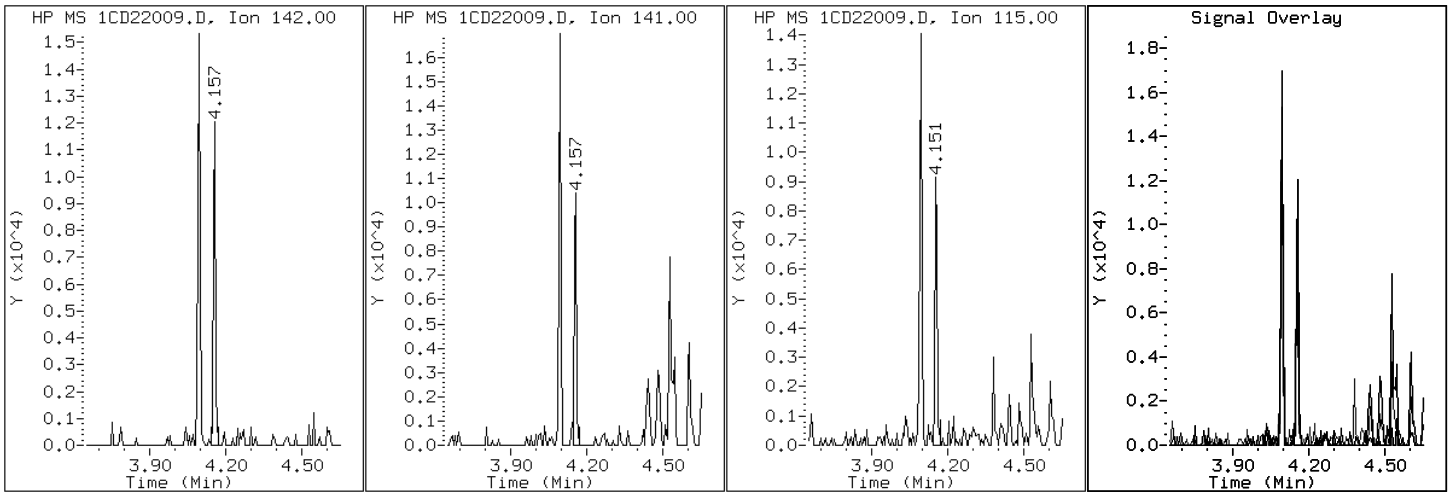
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

4 1-Methylnaphthalene



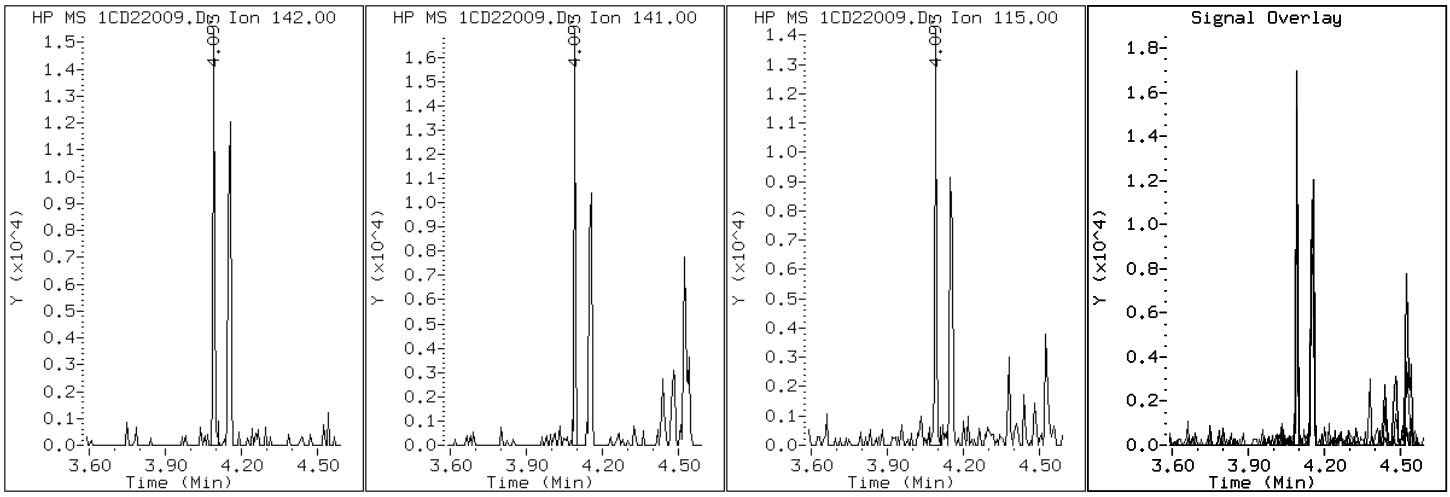
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

3 2-Methylnaphthalene



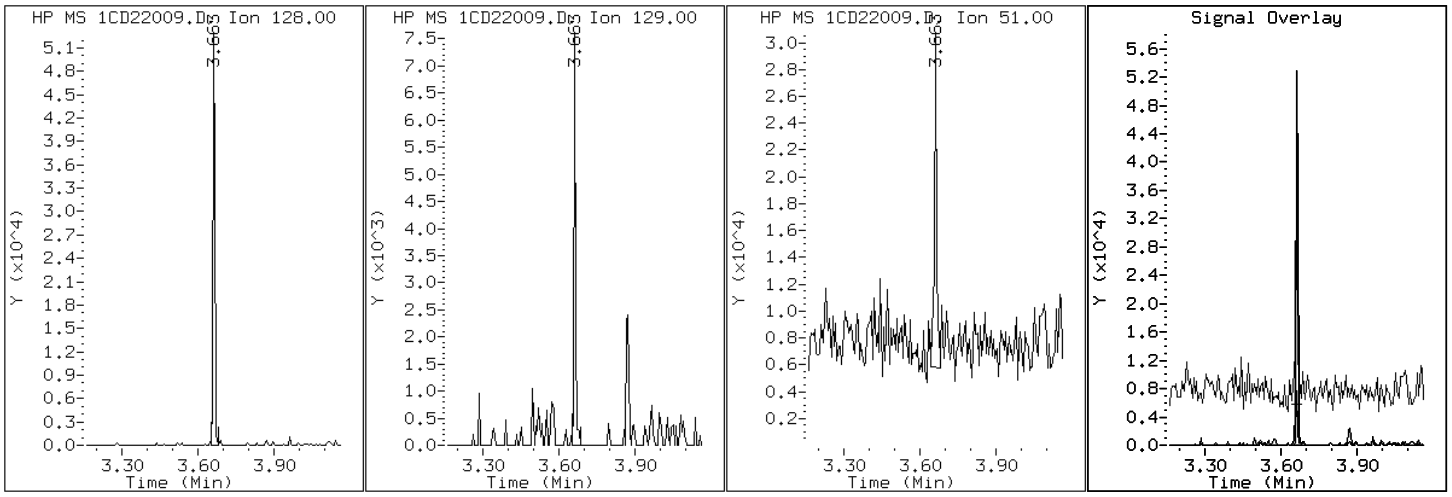
Data File: 1CD22009.D

Date: 22-APR-2013 14:05

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

2 Naphthalene



Manual Integration Report

Data File: 1CD22009.D
Inj. Date and Time: 22-APR-2013 14:05
Instrument ID: BSMC5973.i
Client ID: CV0886B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/22/2013

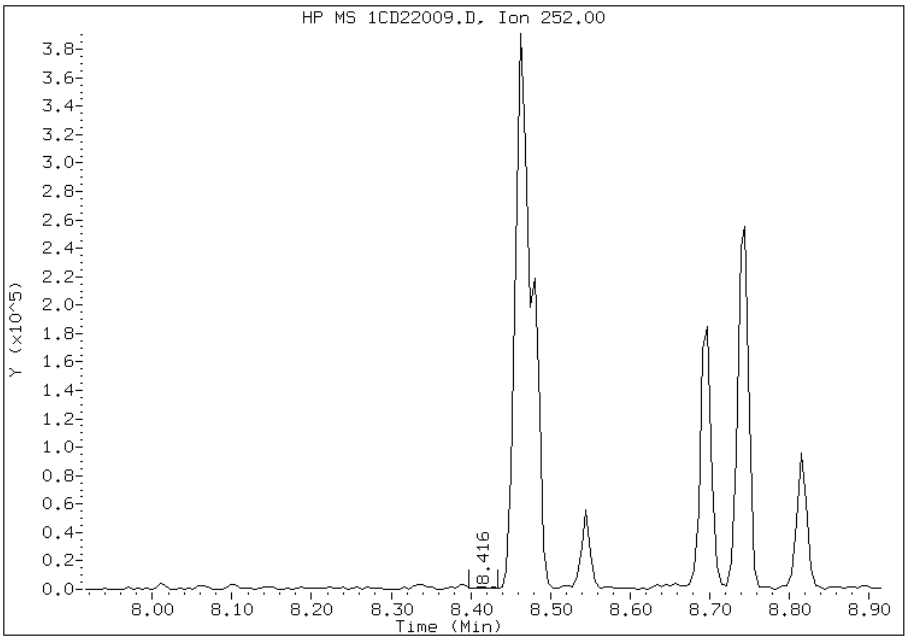
Processing Integration Results

RT: 8.42

Response: 1488

Amount: 0

Conc: 157



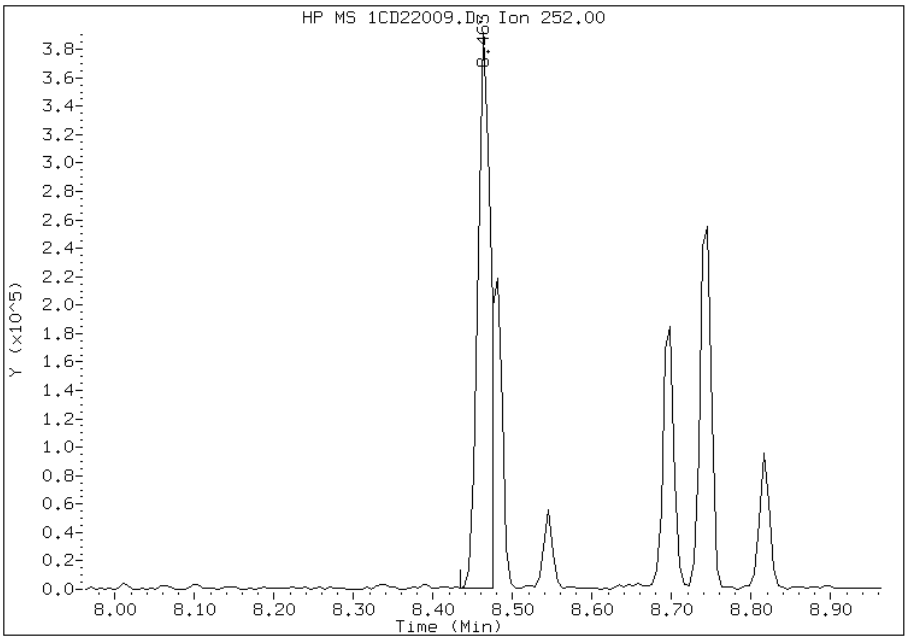
Manual Integration Results

RT: 8.46

Response: 433990

Amount: 48

Conc: 45807



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:26
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD22009.D
Inj. Date and Time: 22-APR-2013 14:05
Instrument ID: BSMC5973.i
Client ID: CV0886B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/22/2013

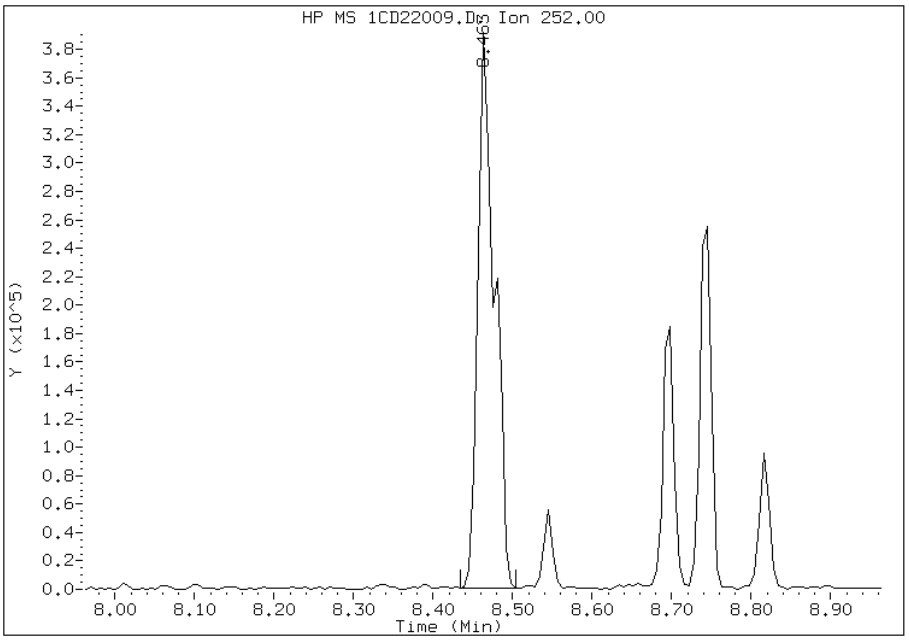
Processing Integration Results

RT: 8.46

Response: 567313

Amount: 55

Conc: 52918



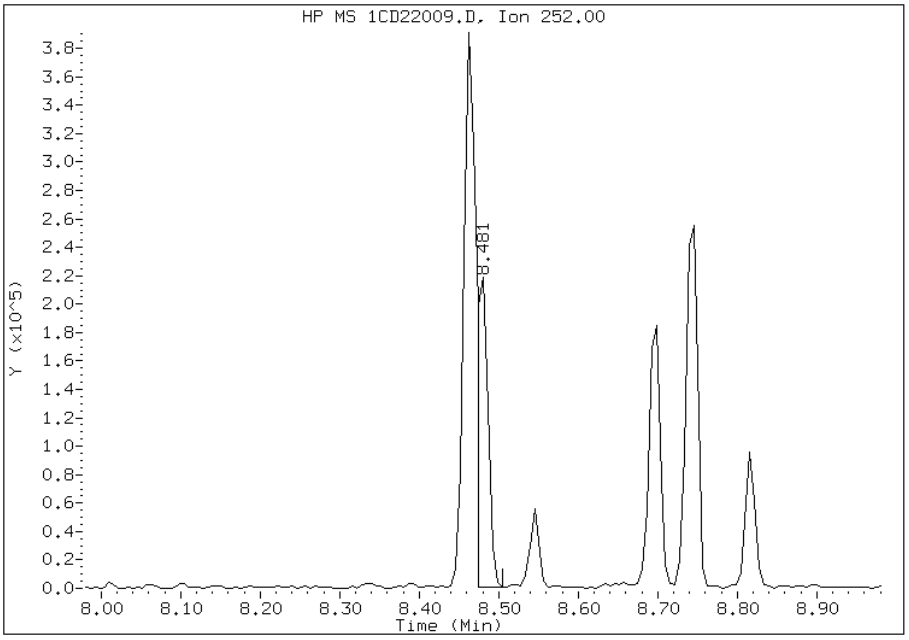
Manual Integration Results

RT: 8.48

Response: 202230

Amount: 20

Conc: 18864



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22009.D
Inj. Date and Time: 22-APR-2013 14:05
Instrument ID: BSMC5973.i
Client ID: CV0886B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

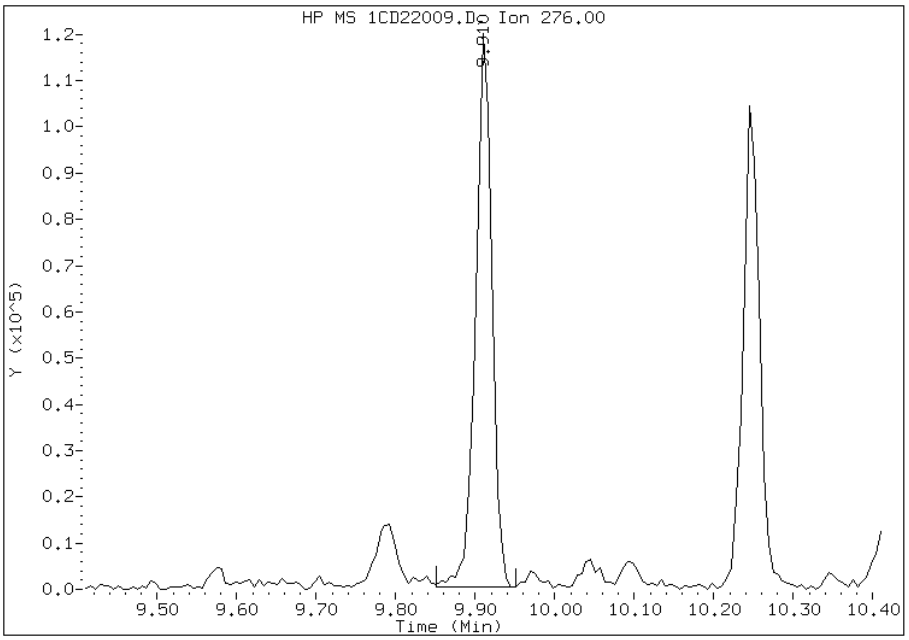
Processing Integration Results

RT: 9.91

Response: 168794

Amount: 19

Conc: 17961



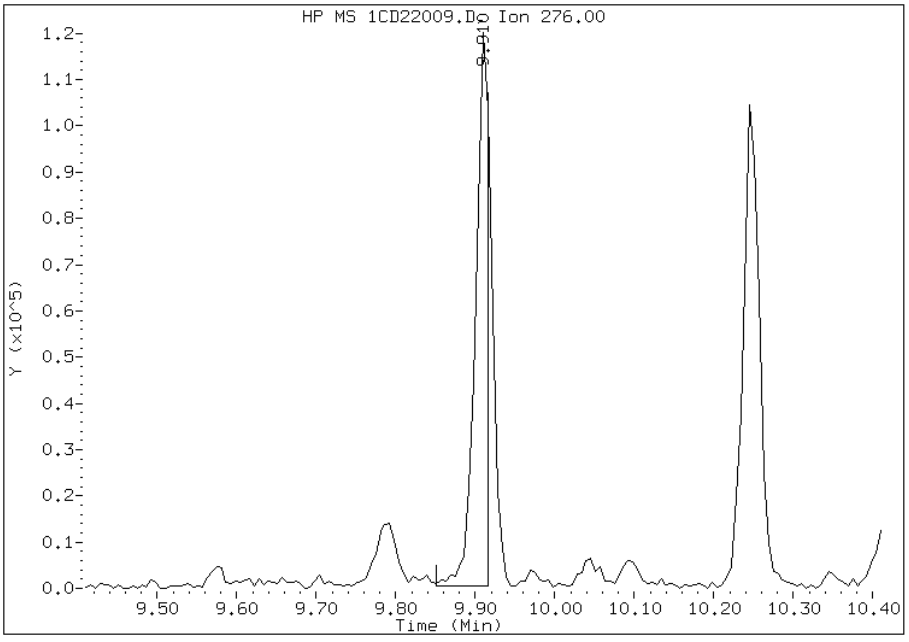
Manual Integration Results

RT: 9.91

Response: 137145

Amount: 15

Conc: 14708



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 14:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: CV0886B-CS-SP DL | Lab Sample ID: 680-89275-25 DL

Matrix: Solid | Lab File ID: 1CD22011.D

Analysis Method: 8270C LL | Date Collected: 04/10/2013 14:05

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.28(g) | Date Analyzed: 04/22/2013 14:51

Con. Extract Vol.: 1(mL) | Dilution Factor: 25

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

% Moisture: 31.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136698 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	63000		720	140
85-01-8	Phenanthrene	43000		290	140
129-00-0	Pyrene	41000		720	130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22011.D
Lab Smp Id: 680-89275-A-25-A Client Smp ID: CV0886B-CS-SP
Inj Date : 22-APR-2013 14:51
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89275-A-25-A
Misc Info : 680-89275-A-25-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 11
Dil Factor: 25.00000
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	25.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.280	Weight Extracted
M	31.657	% 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	3.651	3.651	(1.000)	240709	40.0000	
* 6 Acenaphthene-d10	164	4.739	4.739	(1.000)	162777	40.0000	
* 10 Phenanthrene-d10	188	5.680	5.680	(1.000)	306661	40.0000	
$ 14 o-Terphenyl	230	5.933	5.933	(1.045)	434	0.77512	1855.6248(QR)
* 18 Chrysene-d12	240	7.615	7.615	(1.000)	406882	40.0000	
* 23 Perylene-d12	264	8.768	8.762	(1.000)	402903	40.0000	
2 Naphthalene	128	3.663	3.663	(1.003)	12357	1.89911	4546.4350
3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	3351	1.04276	2496.3619
4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	3049	0.73359	1756.2099
5 Acenaphthylene	152	4.651	4.651	(0.981)	2047	0.29678	710.4763
7 Acenaphthene	154	4.757	4.757	(1.004)	9572	2.30278	5512.8307
9 Fluorene	166	5.080	5.080	(1.072)	9988	1.88819	4520.3065
11 Phenanthrene	178	5.698	5.698	(1.003)	159087	17.7554	42506.2230
12 Anthracene	178	5.733	5.733	(1.009)	33739	3.78975	9072.5994

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.839	5.839	(1.028)	29150	3.51564	8416.3785
15 Fluoranthene	202	6.527	6.527	(1.149)	261417	26.2780	62909.0248
16 Pyrene	202	6.692	6.692	(0.879)	197758	17.0844	40899.7530
17 Benzo(a)anthracene	228	7.603	7.603	(0.998)	120152	10.4427	24999.6904
19 Chrysene	228	7.633	7.633	(1.002)	113735	9.99242	23921.6920
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	129642	12.7396	30498.4047
21 Benzo(k)fluoranthene	252	8.450	8.456	(0.964)	67299	5.84444	13991.5111(M)
22 Benzo(a)pyrene	252	8.709	8.709	(0.993)	83645	7.95173	19036.3303
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.125)	41192	4.58101	10966.8700(M)
25 Dibenzo(a,h)anthracene	278	9.880	9.886	(1.127)	17978	2.18956	5241.7778
26 Benzo(g,h,i)perylene	276	10.197	10.209	(1.163)	53647	5.44110	13025.9102

QC Flag Legend

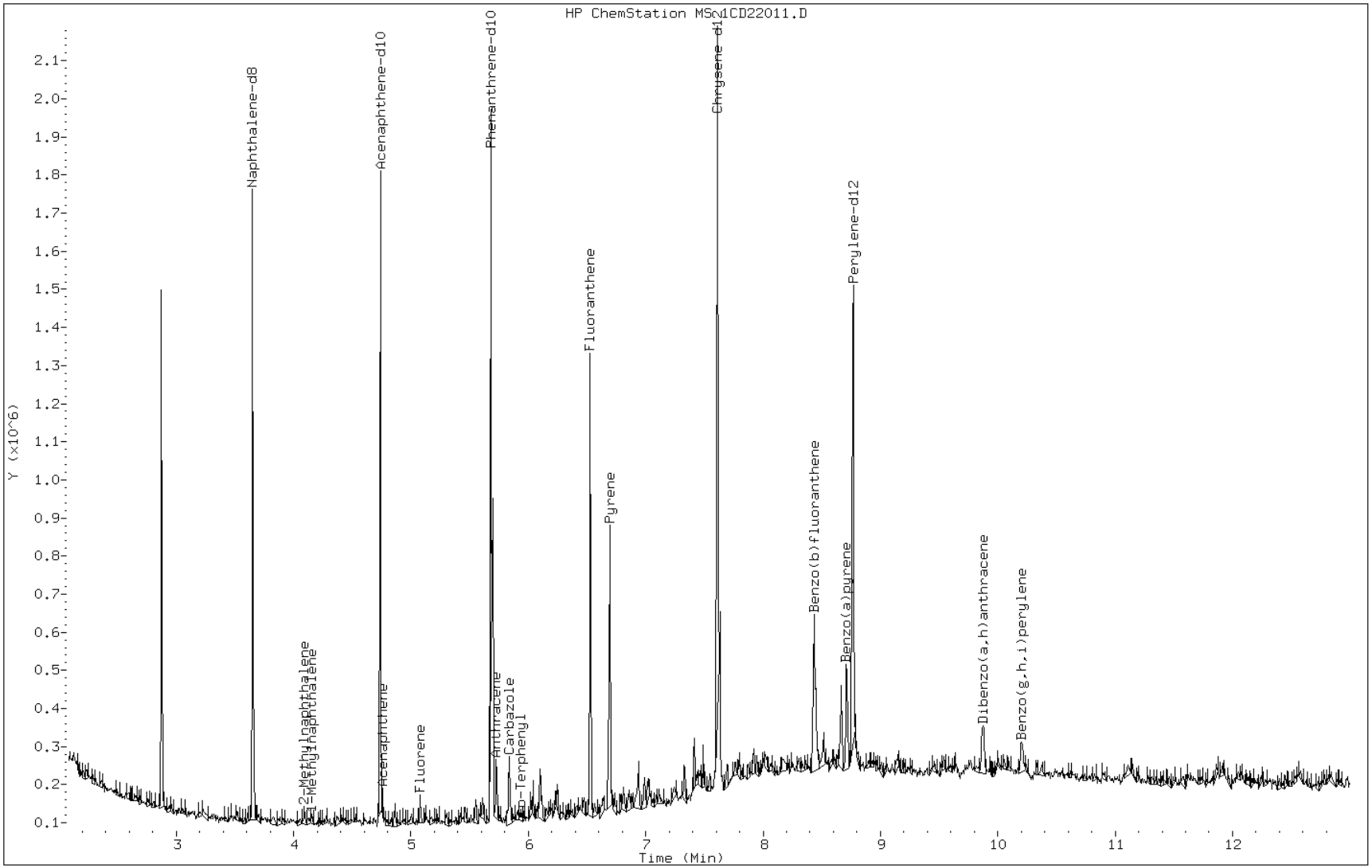
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD22011.D

Date: 22-APR-2013 14:51

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC



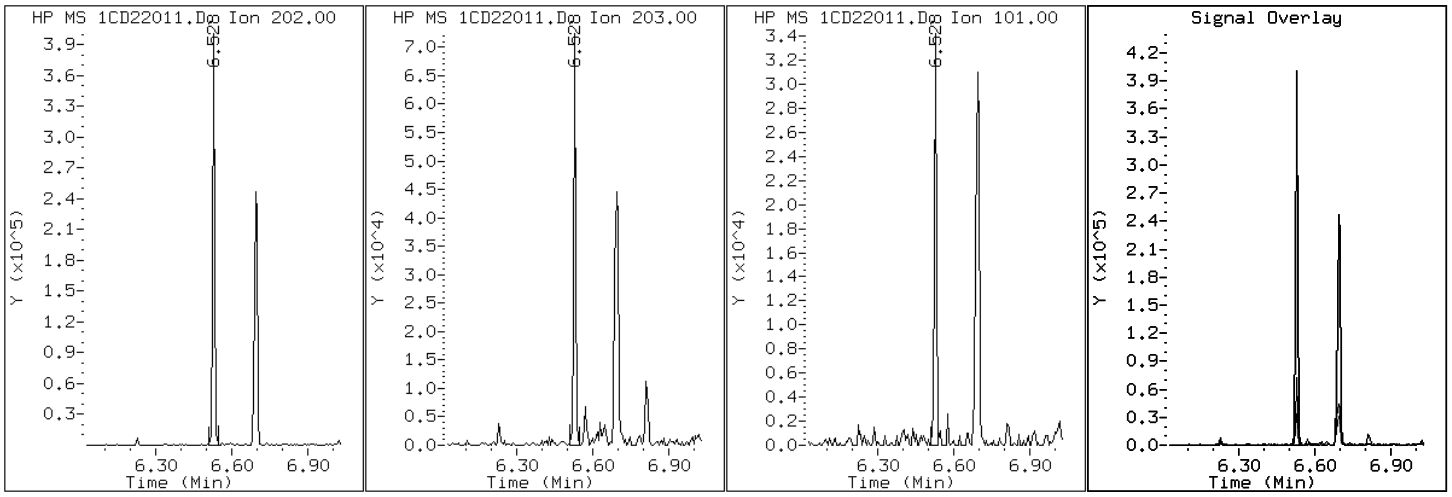
Data File: 1CD22011.D

Date: 22-APR-2013 14:51

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

15 Fluoranthene



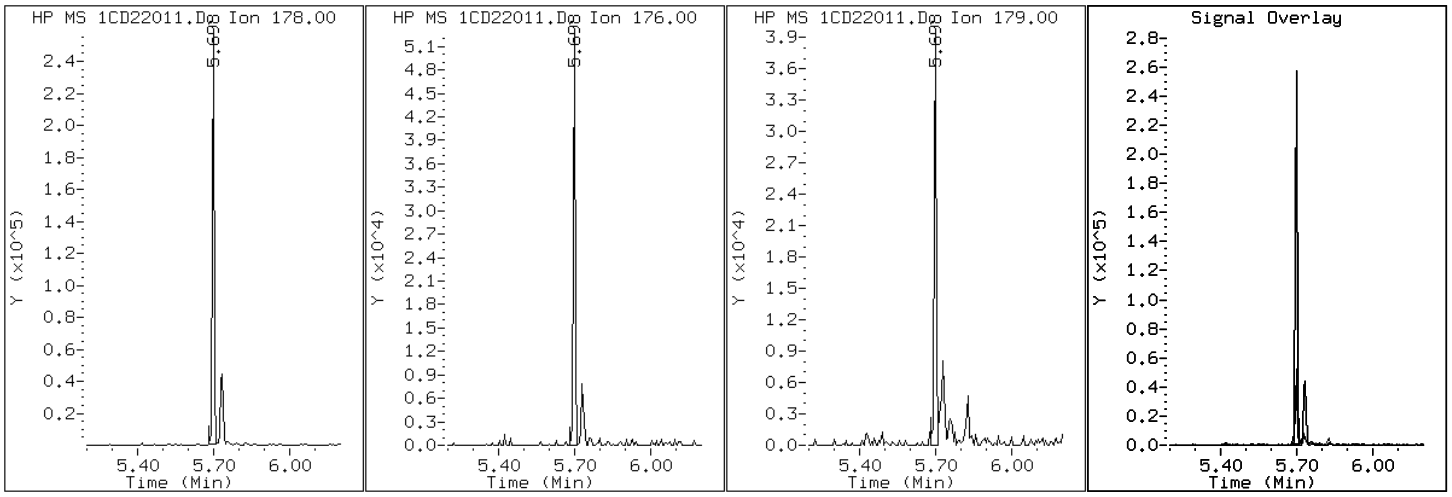
Data File: 1CD22011.D

Date: 22-APR-2013 14:51

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

11 Phenanthrene



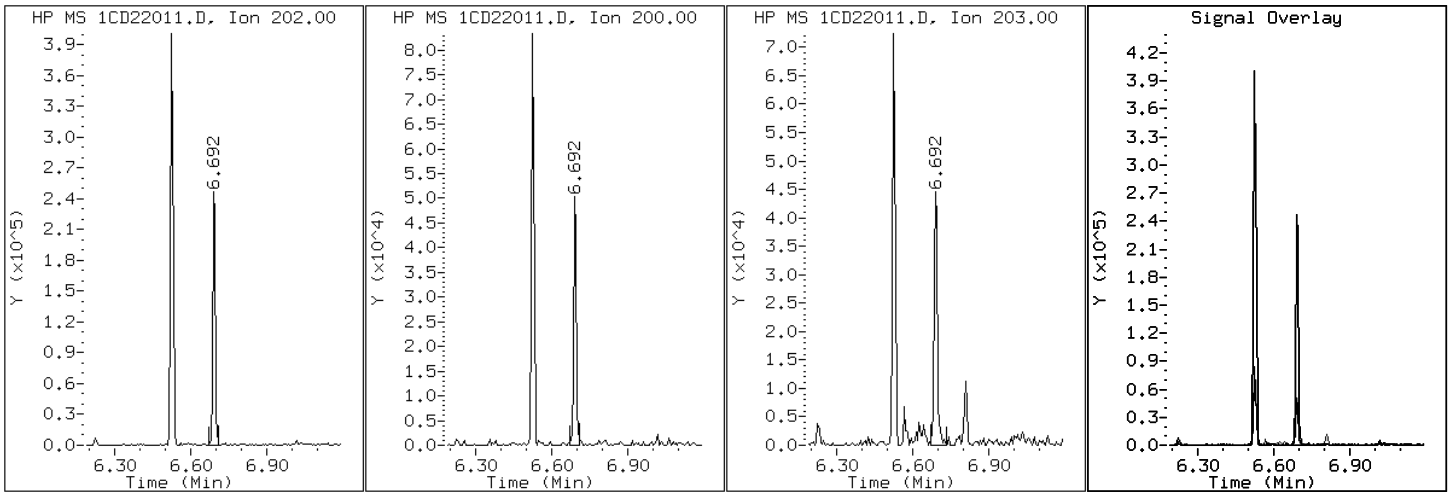
Data File: 1CD22011.D

Date: 22-APR-2013 14:51

Client ID: CV0886B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89275-A-25-A Operator: SCC

16 Pyrene



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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2 Analy Batch No.: 136370

SDG No.: 68089275-2

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.: 680-89275-2 Analy Batch No.: 136370

SDG No.: 68089275-2

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.: 680-89275-2 Analy Batch No.: 136370

SDG No.: 68089275-2

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.: 680-89275-2 Analy Batch No.: 136370

SDG No.: 68089275-2

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

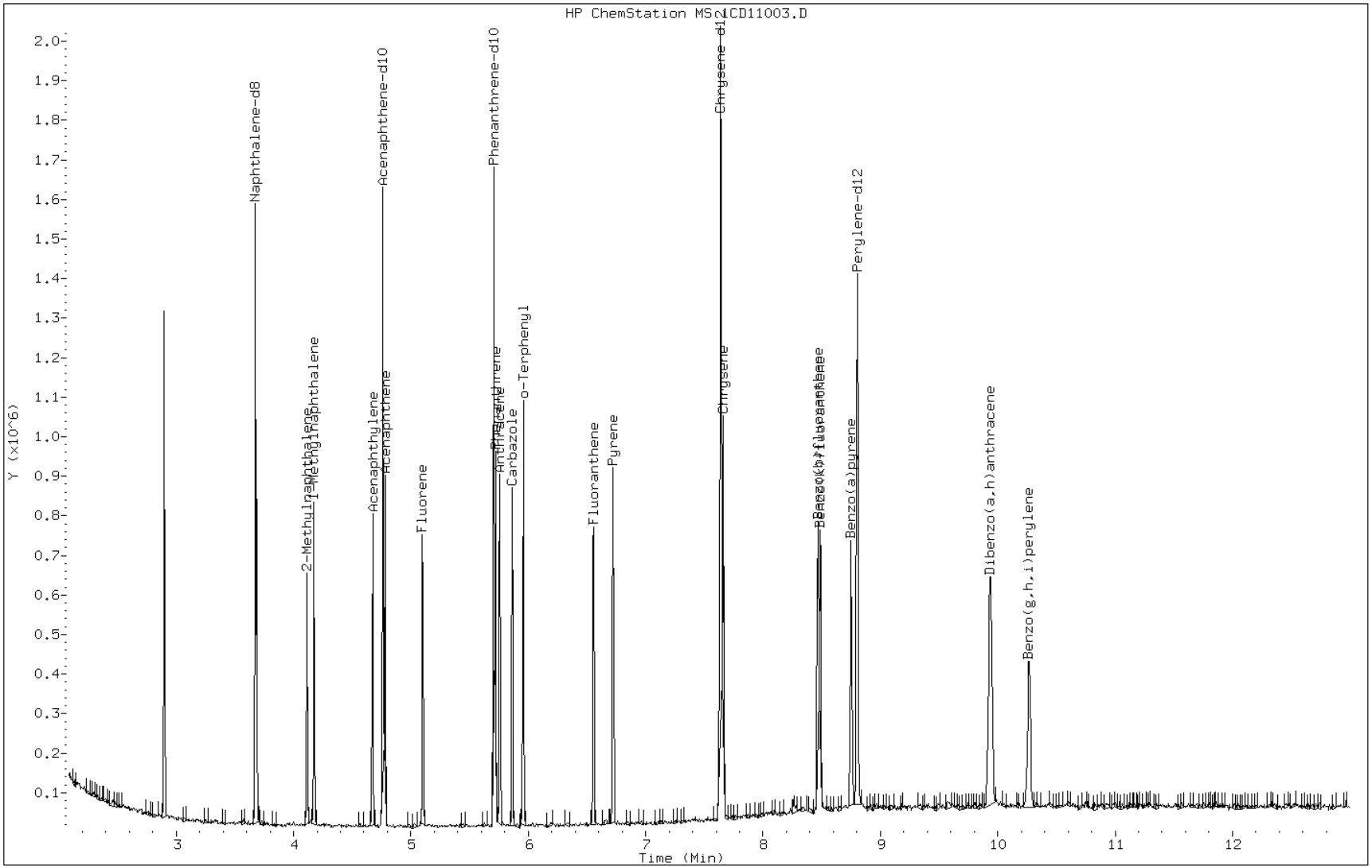
Date: 11-APR-2013 11:56

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

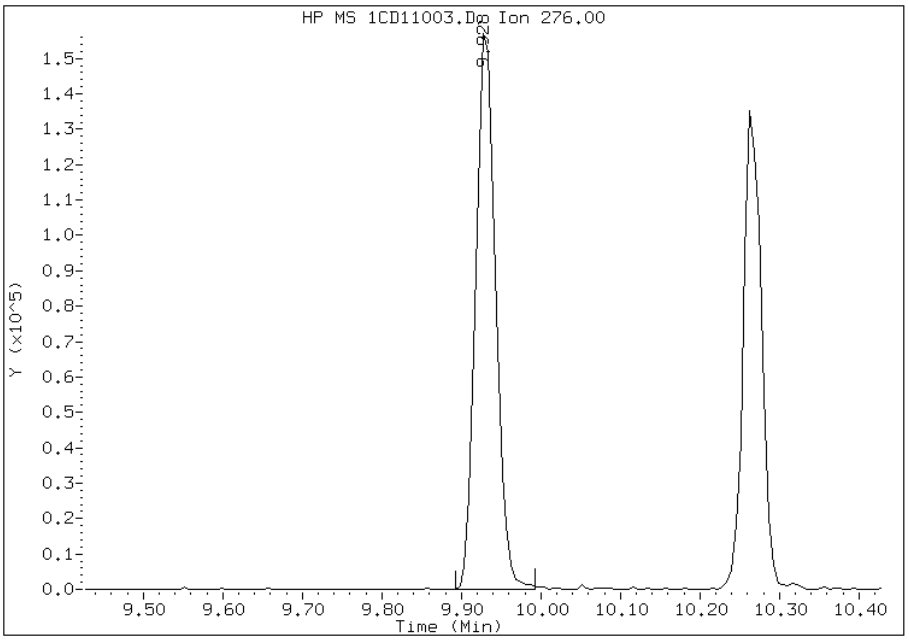
Processing Integration Results

RT: 9.93

Response: 271031

Amount: 23

Conc: 23



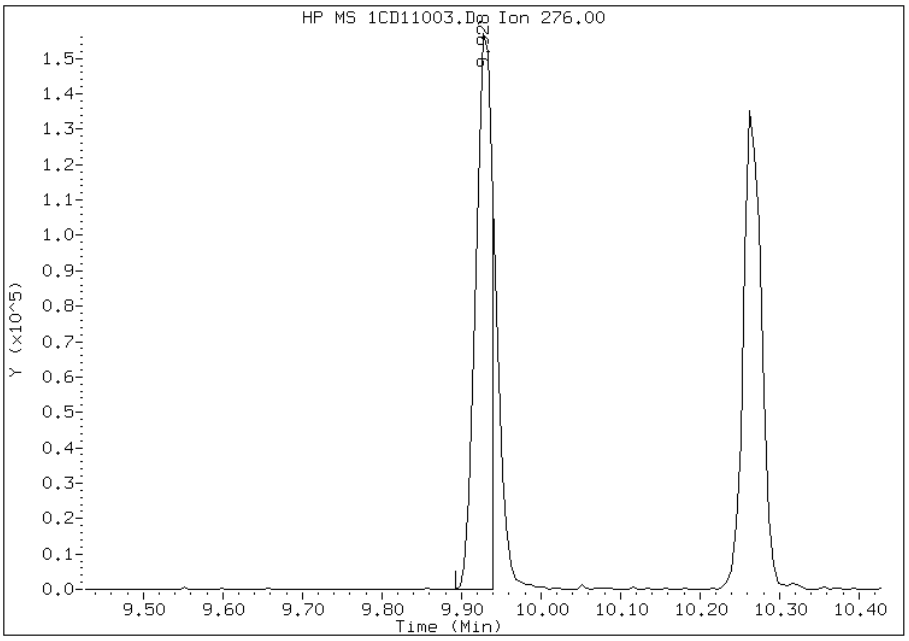
Manual Integration Results

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

	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)	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

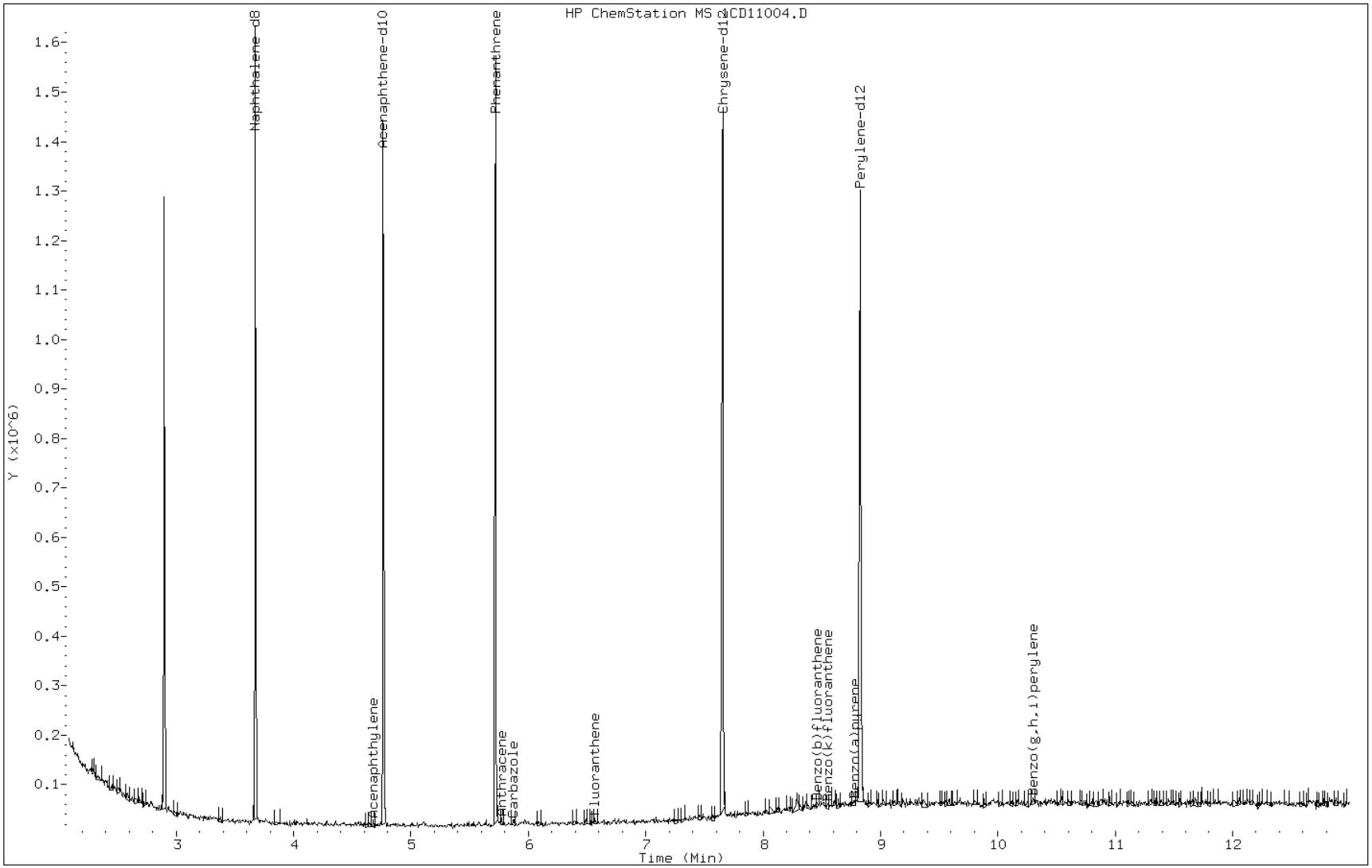
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

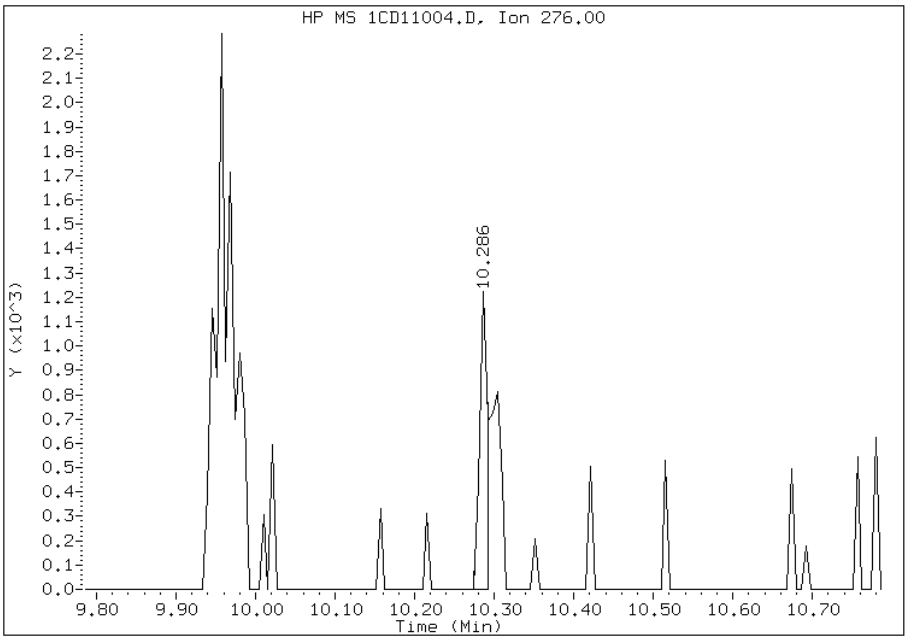
Processing Integration Results

RT: 10.29

Response: 832

Amount: 0

Conc: 0



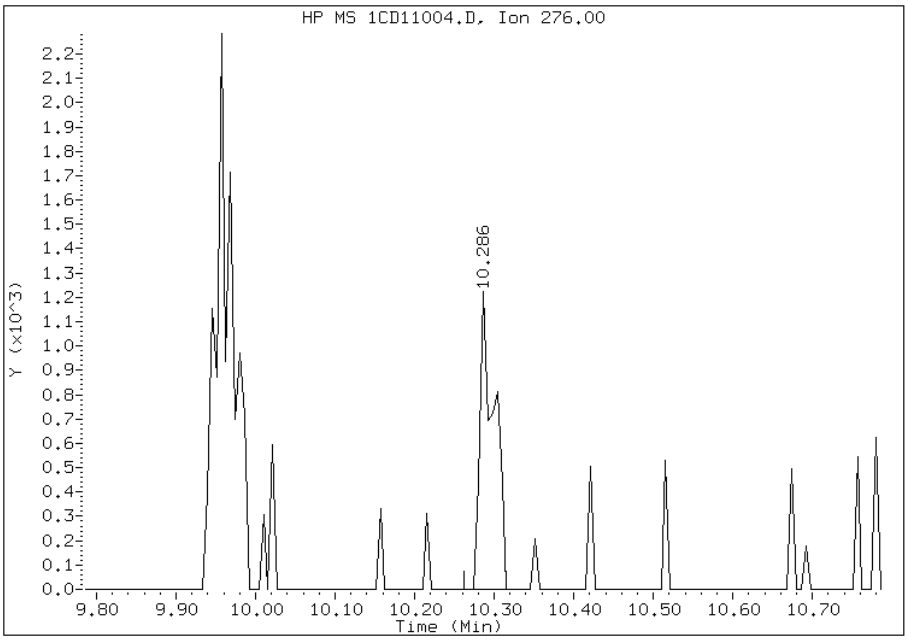
Manual Integration Results

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

						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)	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

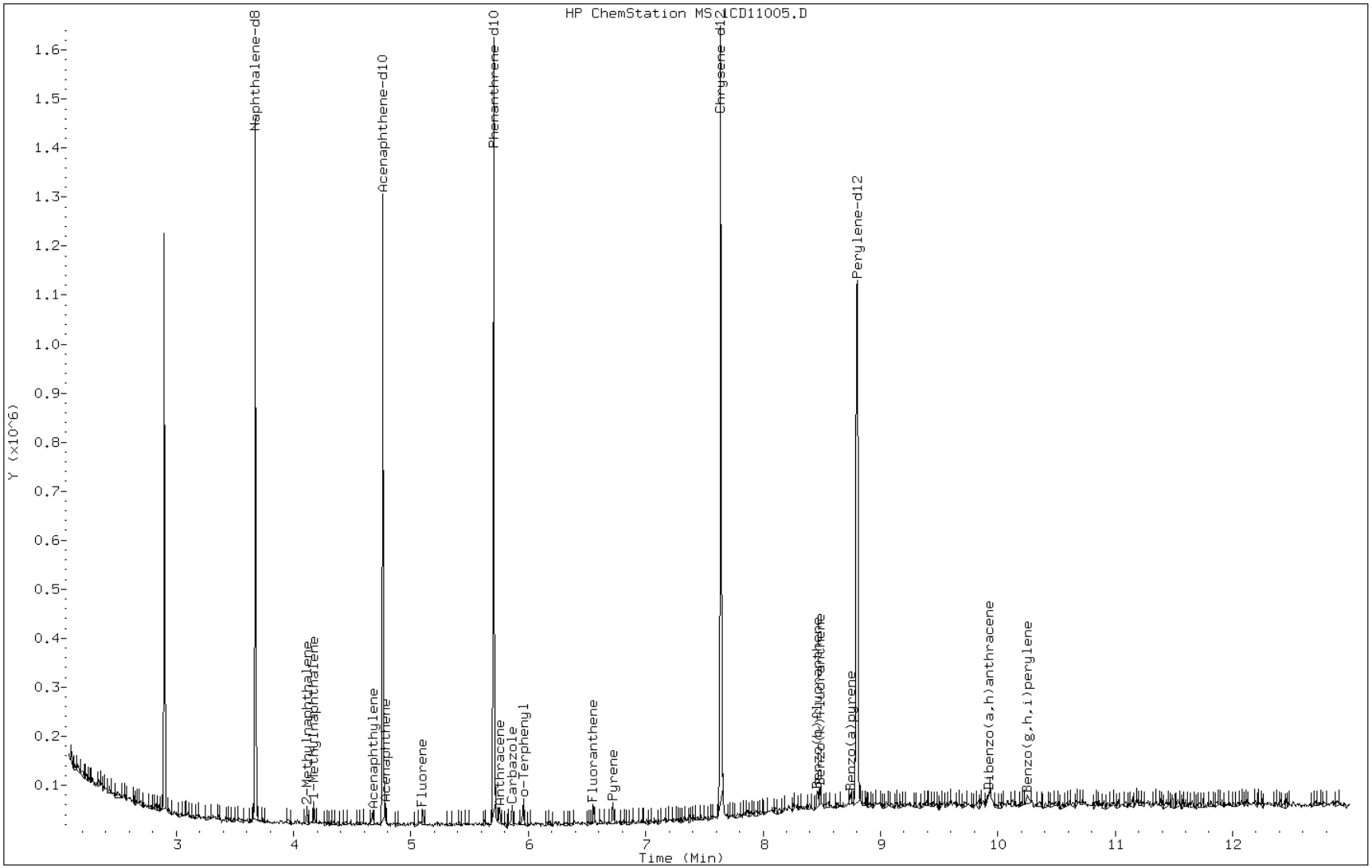
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

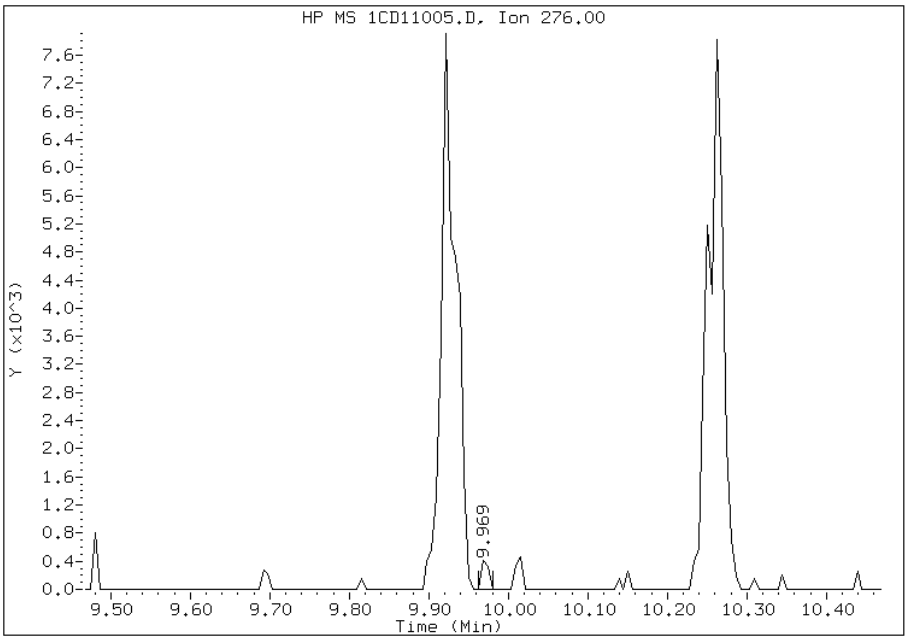
Processing Integration Results

RT: 9.97

Response: 260

Amount: 0

Conc: 0



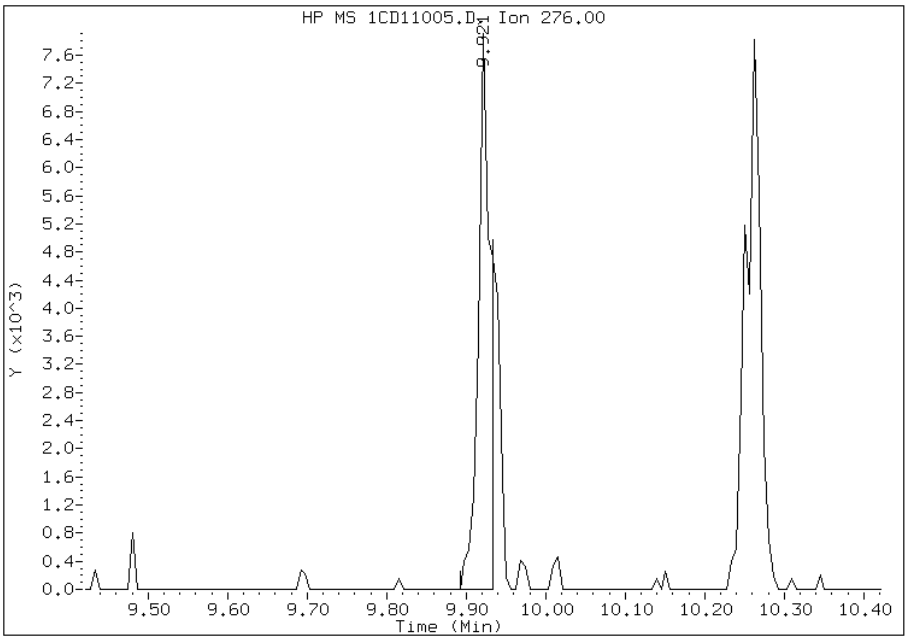
Manual Integration Results

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

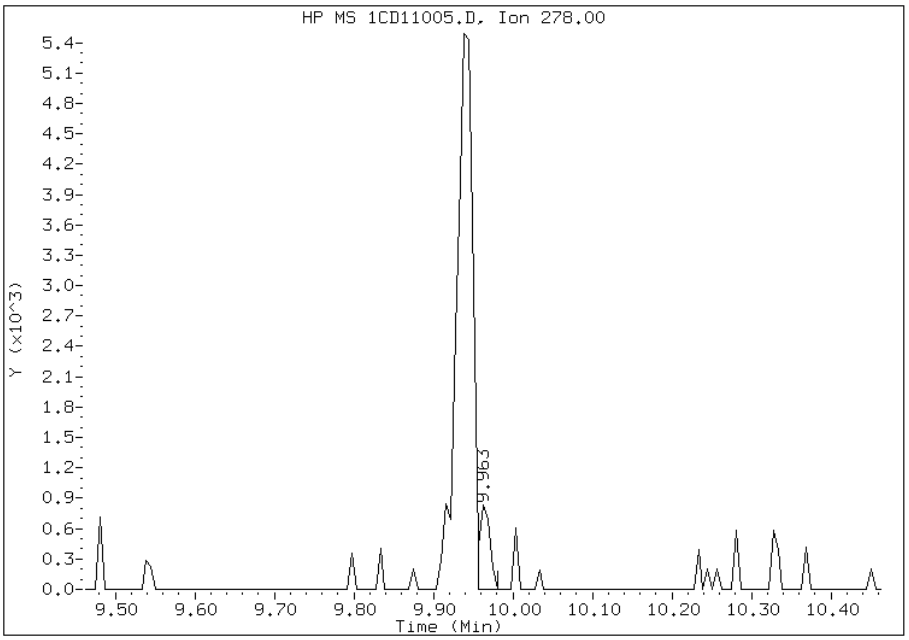
Processing Integration Results

RT: 9.96

Response: 764

Amount: 0

Conc: 0



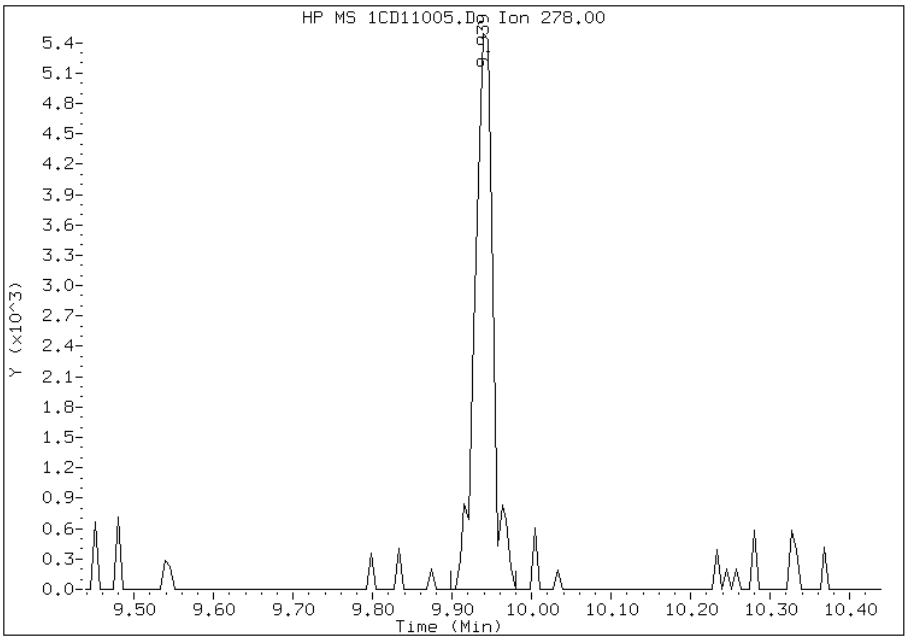
Manual Integration Results

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	
							CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(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

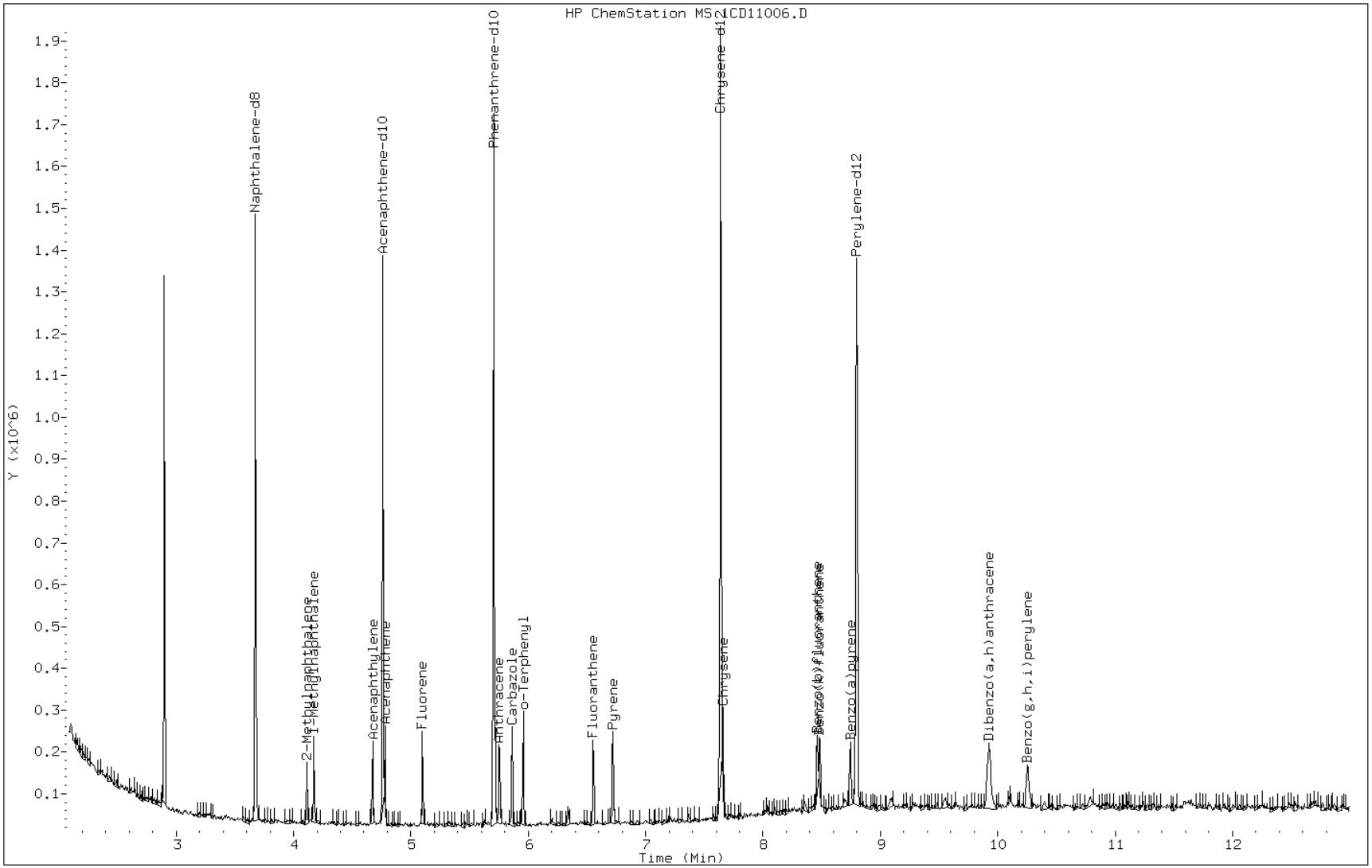
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

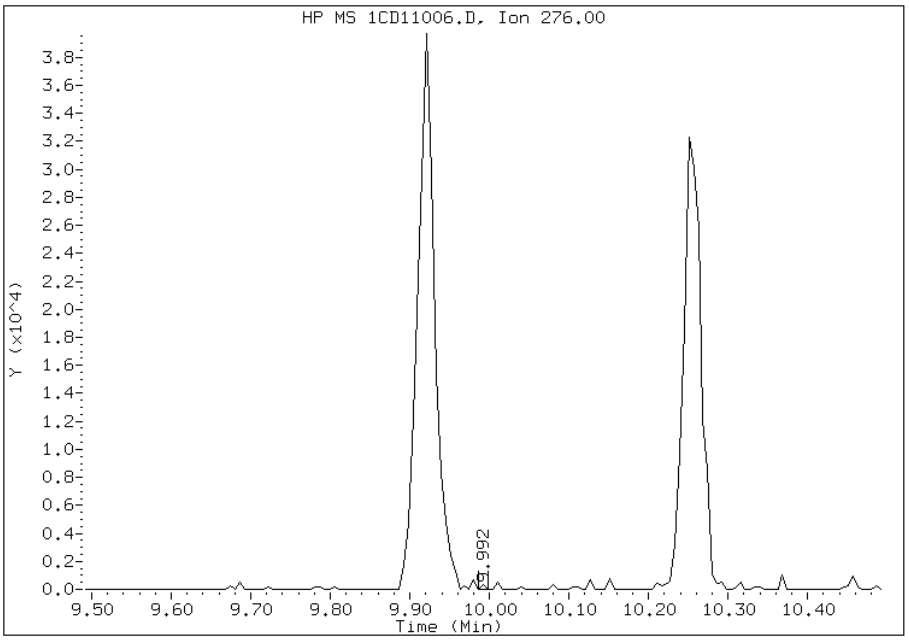
Processing Integration Results

RT: 9.99

Response: 108

Amount: 0

Conc: 0



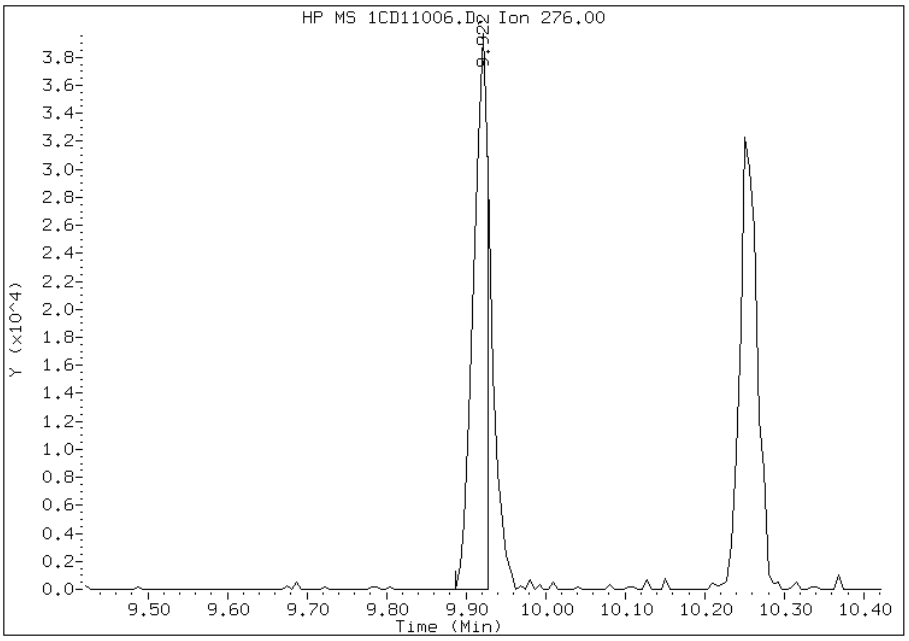
Manual Integration Results

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

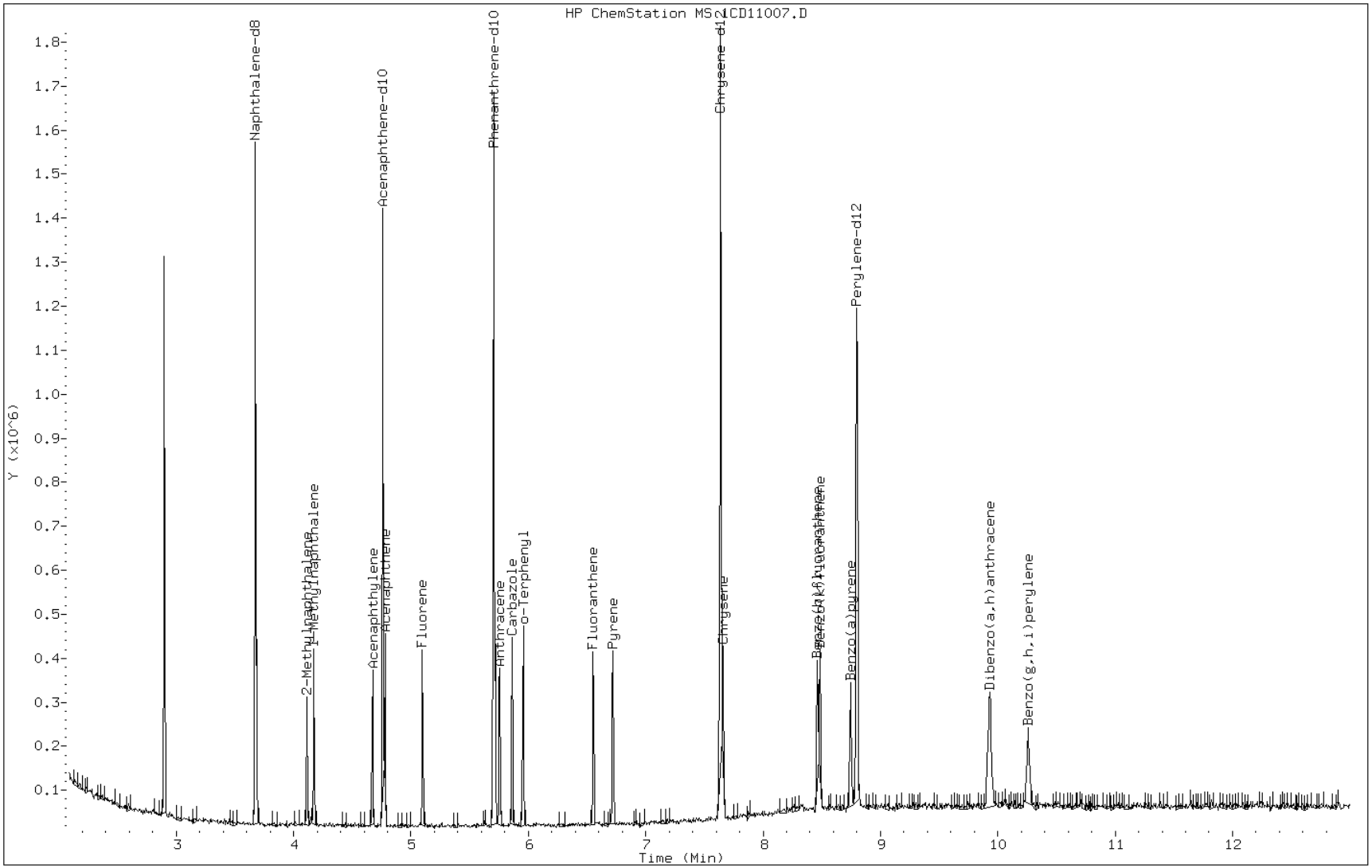
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

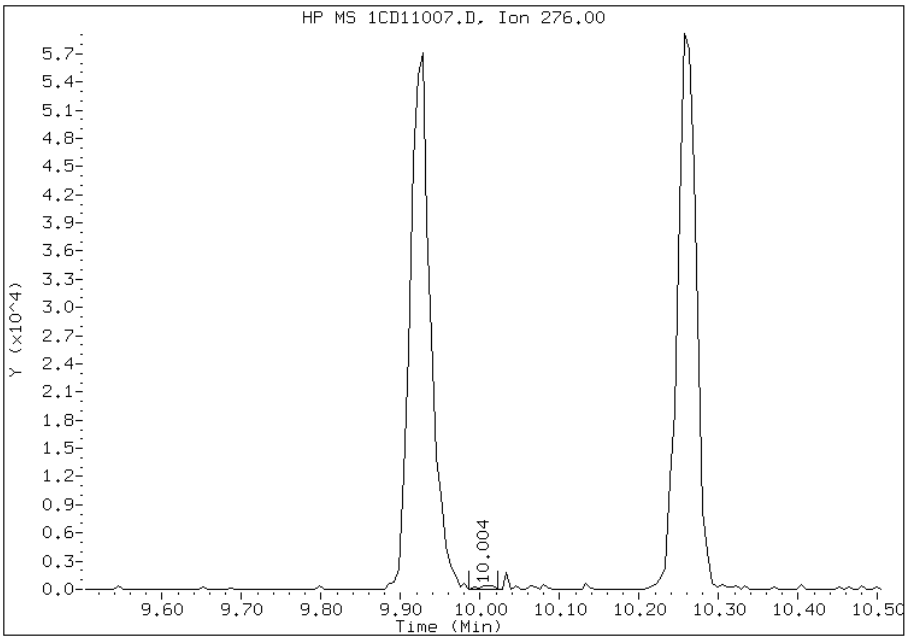
Processing Integration Results

RT: 10.00

Response: 600

Amount: 0

Conc: 0



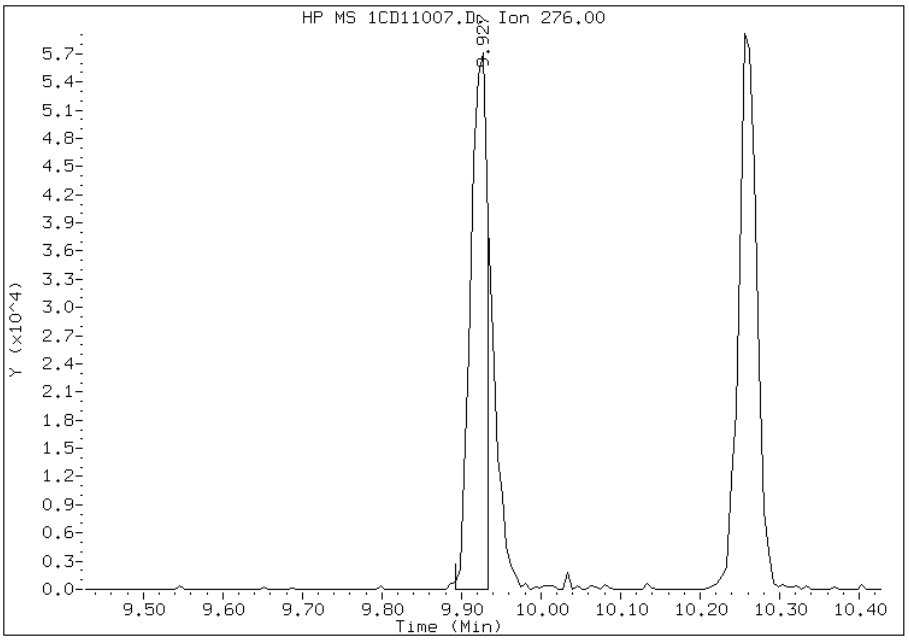
Manual Integration Results

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

		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)	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

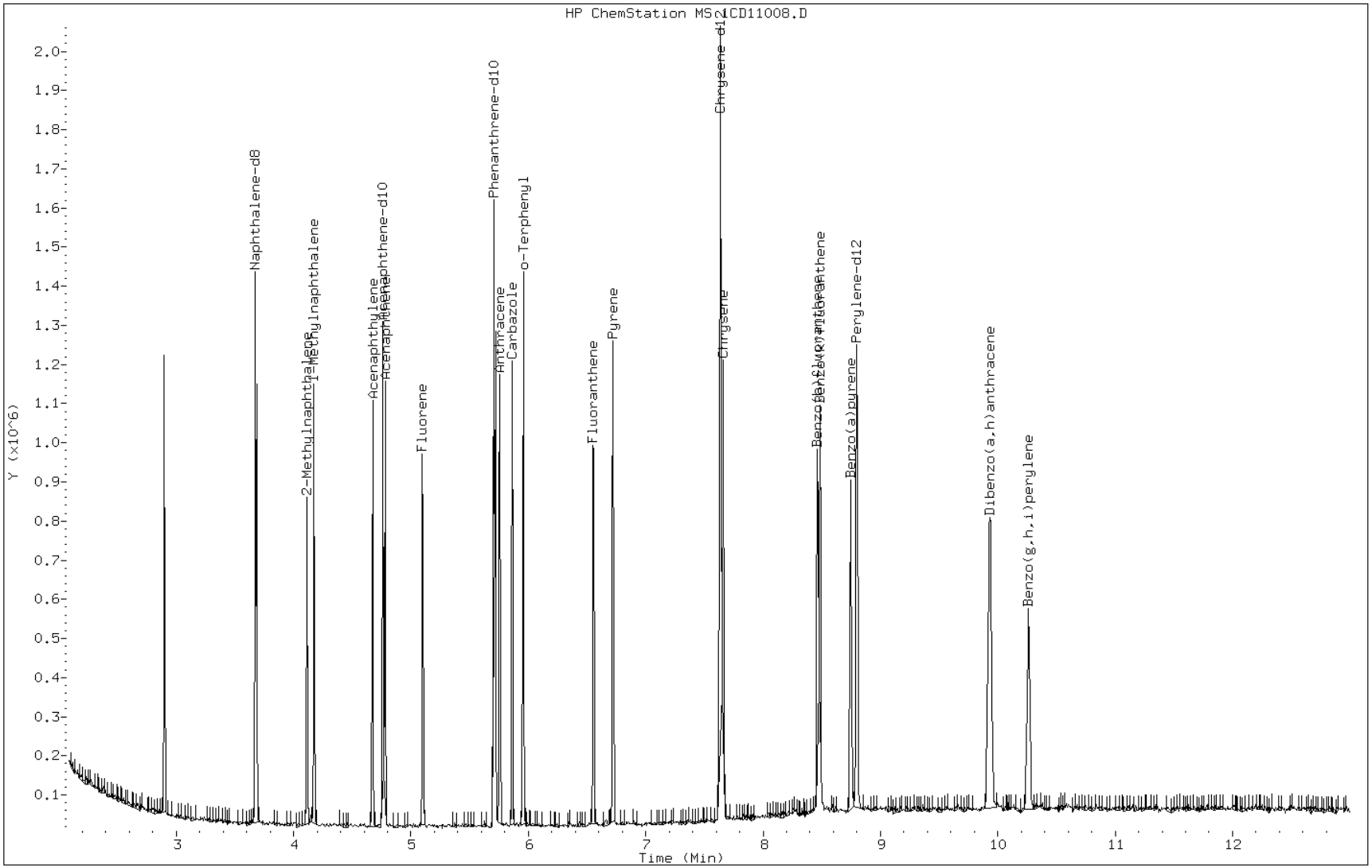
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

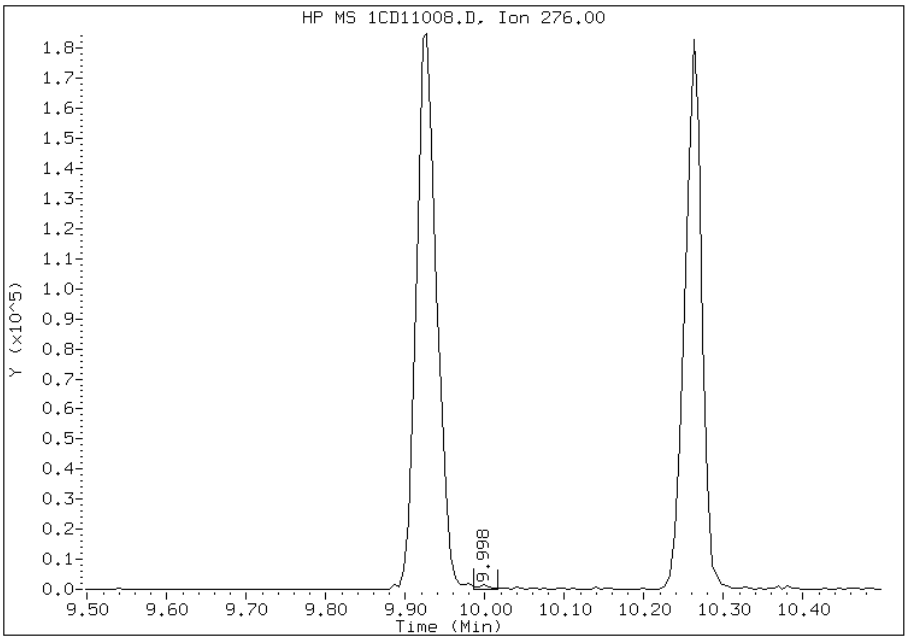
Processing Integration Results

RT: 10.00

Response: 1705

Amount: 0

Conc: 0



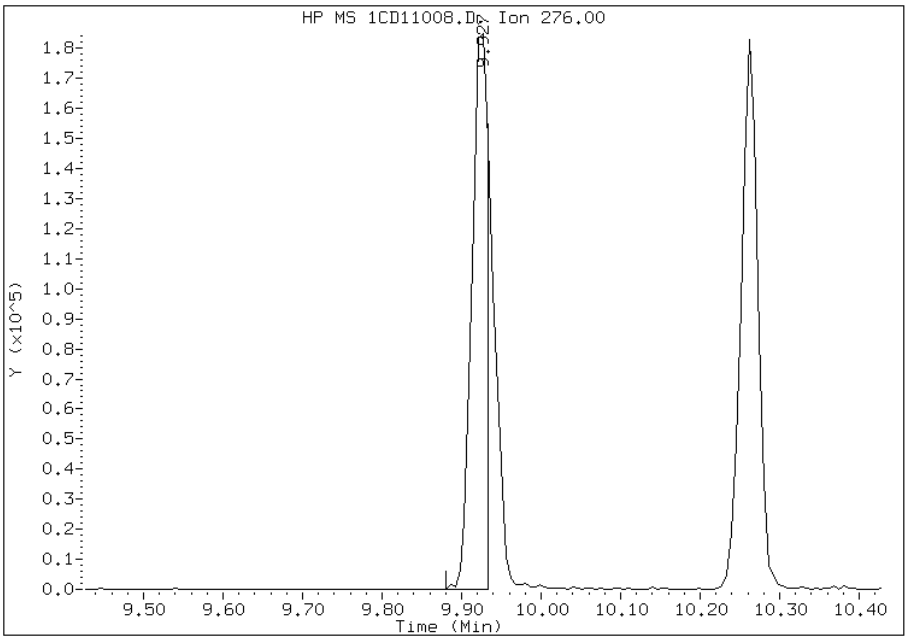
Manual Integration Results

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

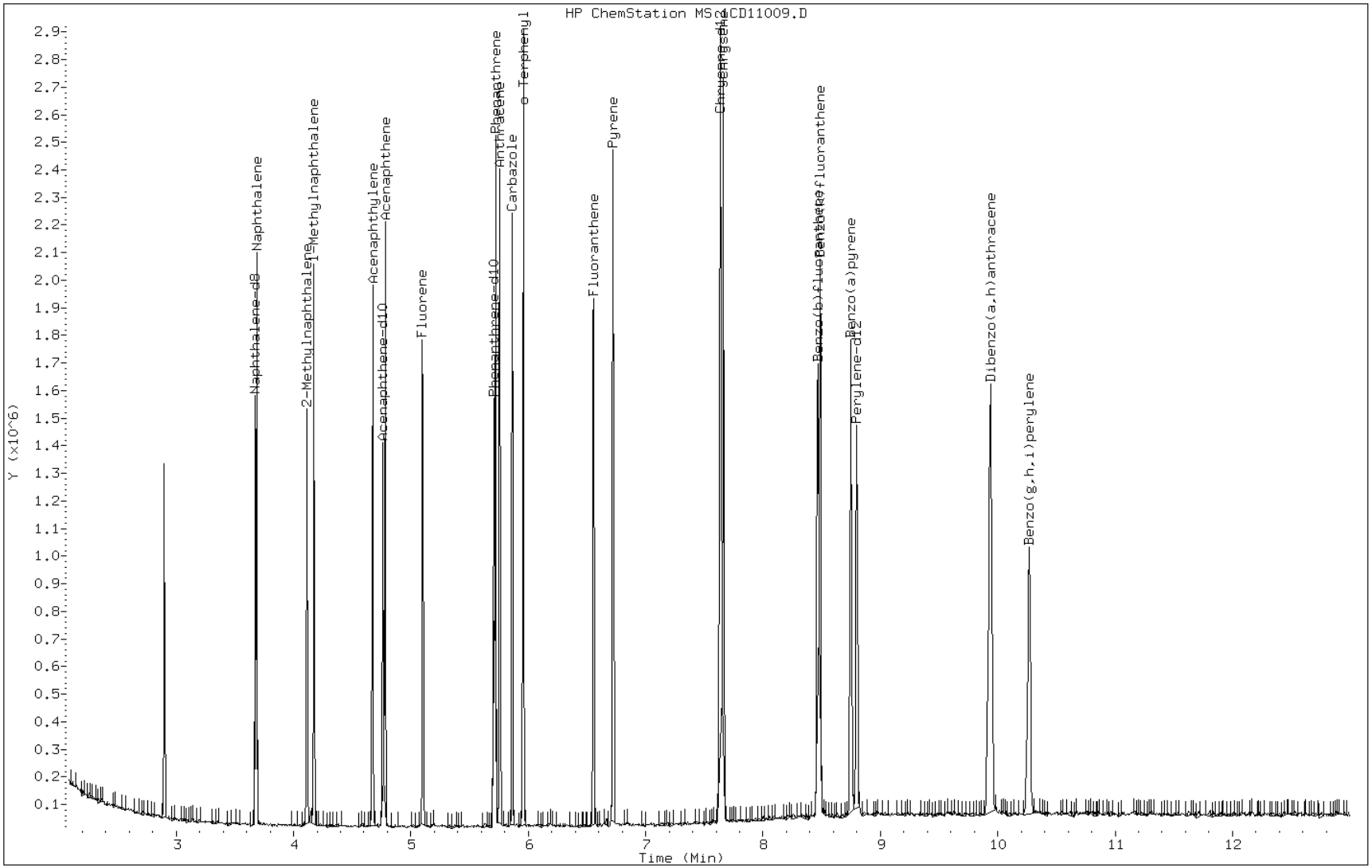
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

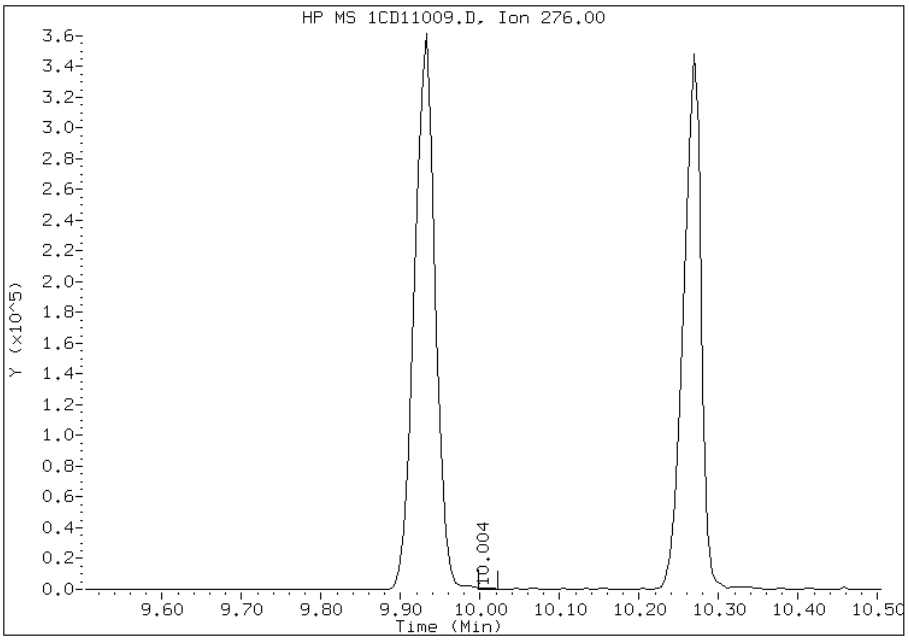
Processing Integration Results

RT: 10.00

Response: 955

Amount: 0

Conc: 0



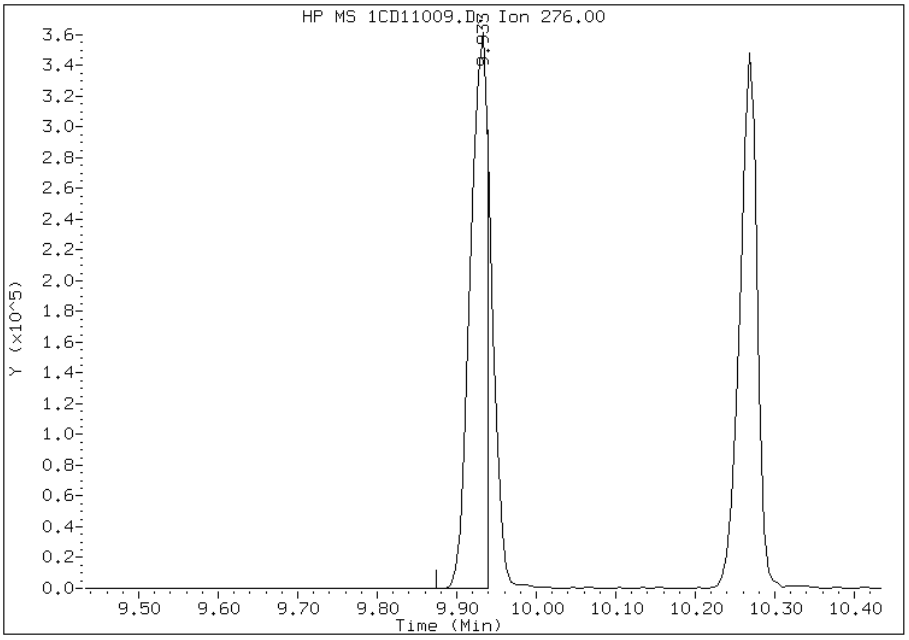
Manual Integration Results

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2 Analy Batch No.: 136164

SDG No.: 68089275-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9331 1.0230	0.9606 1.0509	1.0286	0.9649	0.9984	Ave		0.9942			0.0000	4.3		15.0			
2-Methylnaphthalene	0.5806 0.6693	0.6114 0.6984	0.6517	0.6297	0.6515	Ave		0.6418			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5558 0.6314	0.5782 0.6544	0.6189	0.5919	0.6119	Ave		0.6061			0.0000	5.5		15.0			
Acenaphthylene	1.4312 1.8297	1.5518 1.8878	1.7317	1.6795	1.7392	Ave		1.6930			0.0000	9.3		15.0			
Acenaphthene	1.0016 1.0873	0.9902 1.1219	1.0649	1.0164	1.0329	Ave		1.0450			0.0000	4.6		15.0			
Fluorene	1.1332 1.3072	1.1795 1.3301	1.2333	1.2265	1.2526	Ave		1.2375			0.0000	5.5		15.0			
Phenanthrene	1.0628 1.1227	1.0409 1.1914	1.1226	1.0753	1.0969	Ave		1.1018			0.0000	4.5		15.0			
Anthracene	0.9667 1.1508	1.0104 1.2102	1.1116	1.0846	1.1206	Ave		1.0936			0.0000	7.6		15.0			
Carbazole	0.8539 0.9974	0.9170 1.0575	0.9788	0.9568	0.9906	Ave		0.9646			0.0000	6.7		15.0			
Fluoranthene	1.0349 1.1765	1.0636 1.2407	1.1552	1.1188	1.1468	Ave		1.1338			0.0000	6.1		15.0			
Pyrene	1.1042 1.2400	1.1445 1.2796	1.2302	1.1952	1.2147	Ave		1.2012			0.0000	5.0		15.0			
Benzo[a]anthracene	1.5223 1.0884	1.1349 1.0935	1.1146	1.0605	1.0812	Ave		1.1565			0.0000	14.1		15.0			
Chrysene	1.1462 1.0803	1.0503 1.1335	1.0831	1.0383	1.0590	Ave		1.0844			0.0000	3.8		15.0			
Benzo[b]fluoranthene	0.9638 1.0305	0.9264 1.0697	1.0233	0.9705	1.0102	Ave		0.9992			0.0000	4.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Tampa Job No.: 680-89275-2 Analy Batch No.: 136164

SDG No.: 68089275-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9941 1.0870	1.0278 1.1123	1.0413	1.0574	1.0488	Ave		1.0527			0.0000	3.7		15.0			
Benzo[a]pyrene	0.9363 1.0554	0.9330 1.0817	1.0086	0.9978	1.0150	Ave		1.0040			0.0000	5.5		15.0			
Indeno[1,2,3-cd]pyrene	0.9719 1.1444	1.0047 1.2203	1.0673	1.0253	1.0598	Ave		1.0705			0.0000	8.0		15.0			
Dibenz(a,h)anthracene	1.0008 1.0474	0.9200 1.0891	1.0022	0.9846	1.0127	Ave		1.0081			0.0000	5.2		15.0			
Benzo[g,h,i]perylene	0.9959 1.0588	1.0032 1.0675	1.0494	1.0184	1.0221	Ave		1.0308			0.0000	2.7		15.0			
o-Terphenyl	0.5239 0.6240	0.5611 0.6847	0.6139	0.5898	0.6214	Ave		0.6027			0.0000	8.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89275-2 Analy Batch No.: 136164

SDG No.: 68089275-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	11503 1777021	59216 3211548	316194	614716	1235557	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7158 1162560	37688 2134320	200332	401151	806286	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	6852 1096847	35645 1999874	190230	377068	757317	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10298 1852399	56340 3396591	314191	620756	1275622	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	7207 1100779	35951 2018481	193205	375673	757590	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	8154 1323451	42826 2393163	223769	453336	918747	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	12866 1932978	63070 3534794	338739	657435	1331875	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	11703 1981347	61222 3590722	335430	663091	1360668	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	10338 1717245	55563 3137679	295345	584967	1202897	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	12529 2025512	64445 3681257	348578	684049	1392506	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13274 2181708	69252 3965627	374480	738839	1496990	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	18301 1914899	68675 3388838	339292	655565	1332372	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	13779 1900592	63553 3512644	329706	641842	1305118	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	12005 1811151	57946 3290902	323060	612455	1270704	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	12382 1910468	64288 3421834	328752	667284	1319239	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89275-2 Analy Batch No.: 136164

SDG No.: 68089275-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	11662 1854979	58354 3327888	318431	629684	1276688	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12106 2011375	62840 3754268	336963	647015	1333044	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	12466 1840819	57541 3350541	316396	621340	1273836	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	12405 1860821	62750 3284166	331324	642692	1285637	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	6343 1074388	33997 2031596	185249	360585	754512	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04007.D
Lab Smp Id: IC-1531396
Inj Date : 04-APR-2013 13:49
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.091	6.091	(1.000)	2465524	40.0000	
*	6 Acenaphthene-d10	164	7.766	7.766	(1.000)	1439075	40.0000	
*	9 Phenanthrene-d10	188	9.023	9.023	(1.000)	2421253	40.0000	
$	13 o-Terphenyl	230	9.329	9.329	(1.034)	6343	0.20000	0.17
*	17 Chrysene-d12	240	11.338	11.338	(1.000)	2404329	40.0000	
*	22 Perylene-d12	264	13.165	13.165	(1.000)	2491199	40.0000	
	2 Naphthalene	128	6.109	6.109	(1.003)	11503	0.20000	0.19
	3 2-Methylnaphthalene	142	6.814	6.814	(1.119)	7158	0.20000	0.18
	4 1-Methylnaphthalene	142	6.908	6.908	(1.134)	6852	0.20000	0.18
	5 Acenaphthylene	152	7.637	7.637	(0.983)	10298	0.20000	0.17
	7 Acenaphthene	154	7.789	7.789	(1.003)	7207	0.20000	0.19
	8 Fluorene	166	8.236	8.236	(1.061)	8154	0.20000	0.18
	10 Phenanthrene	178	9.041	9.041	(1.002)	12866	0.20000	0.19
	11 Anthracene	178	9.082	9.082	(1.007)	11703	0.20000	0.18
	12 Carbazole	167	9.223	9.223	(1.022)	10338	0.20000	0.18
	14 Fluoranthene	202	10.022	10.022	(1.111)	12529	0.20000	0.18
	15 Pyrene	202	10.210	10.210	(0.901)	13274	0.20000	0.18
	16 Benzo(a)anthracene	228	11.321	11.321	(0.998)	18301	0.20000	0.28
	18 Chrysene	228	11.356	11.356	(1.002)	13779	0.20000	0.21
	19 Benzo(b)fluoranthene	252	12.613	12.613	(0.958)	12005	0.20000	0.19
	20 Benzo(k)fluoranthene	252	12.648	12.648	(0.961)	12382	0.20000	0.19
	21 Benzo(a)pyrene	252	13.060	13.060	(0.992)	11662	0.20000	0.19
	23 Indeno(1,2,3-cd)pyrene	276	14.734	14.734	(1.119)	12106	0.20000	0.18(M)
	24 Dibenzo(a,h)anthracene	278	14.758	14.758	(1.121)	12466	0.20000	0.20(M)
	25 Benzo(g,h,i)perylene	276	15.175	15.175	(1.153)	12405	0.20000	0.19

QC Flag Legend

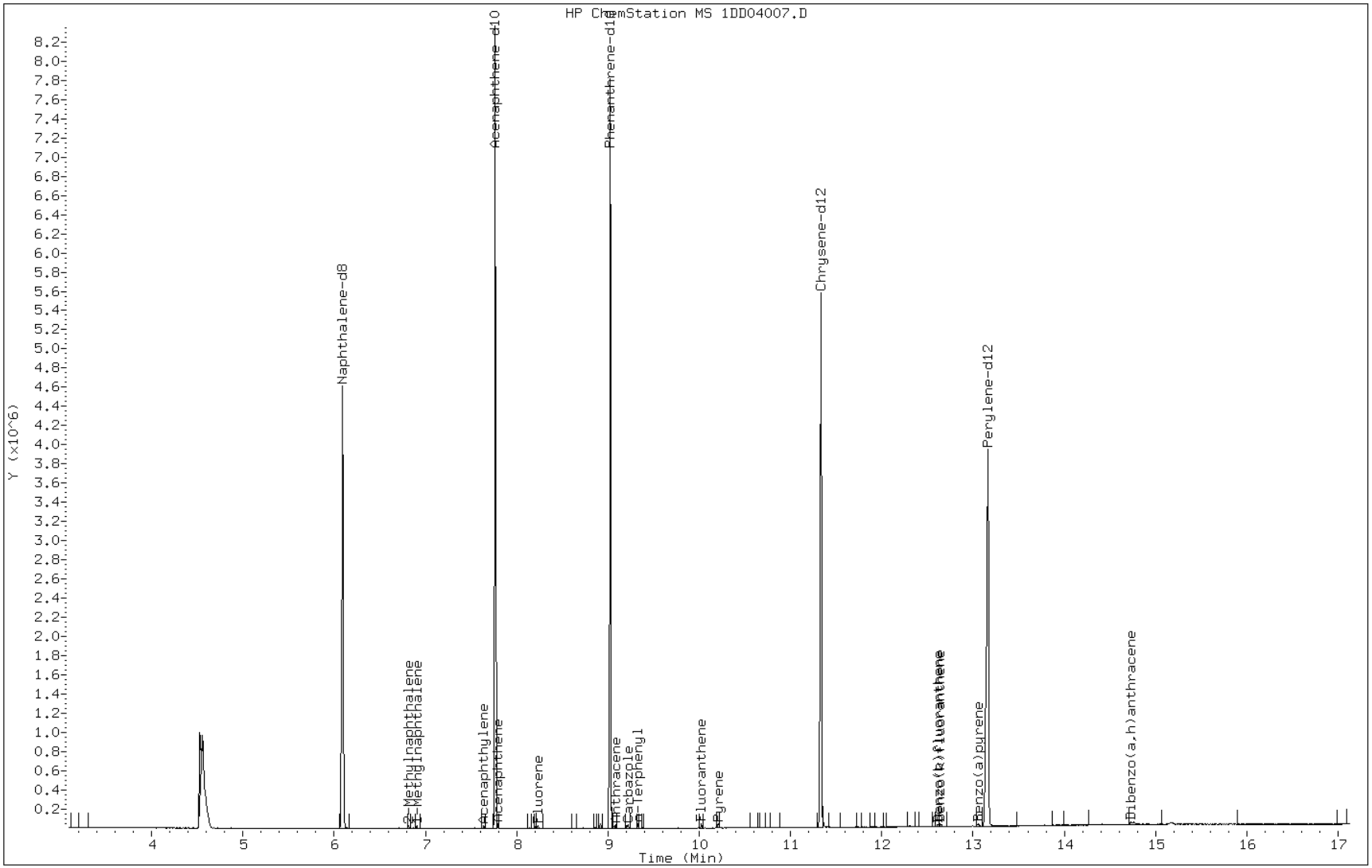
M - Compound response manually integrated.

Data File: 1DD04007.D

Date: 04-APR-2013 13:49

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

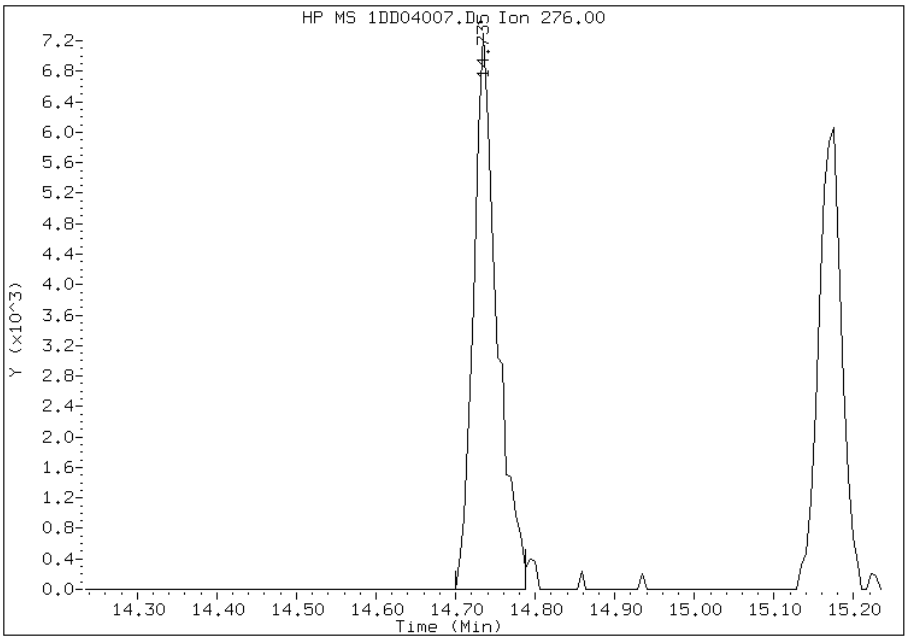
Processing Integration Results

RT: 14.73

Response: 14910

Amount: 0

Conc: 0



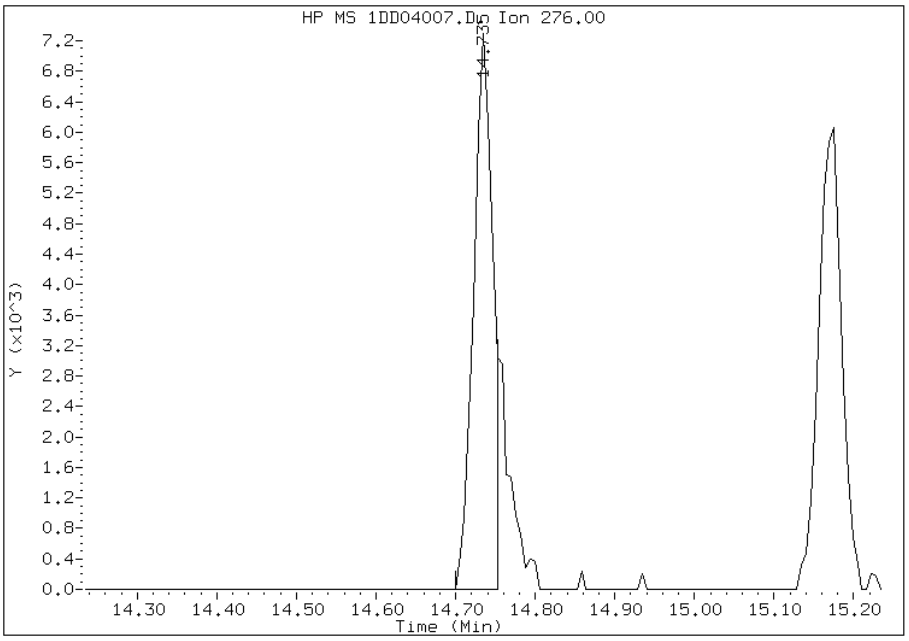
Manual Integration Results

RT: 14.73

Response: 12106

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

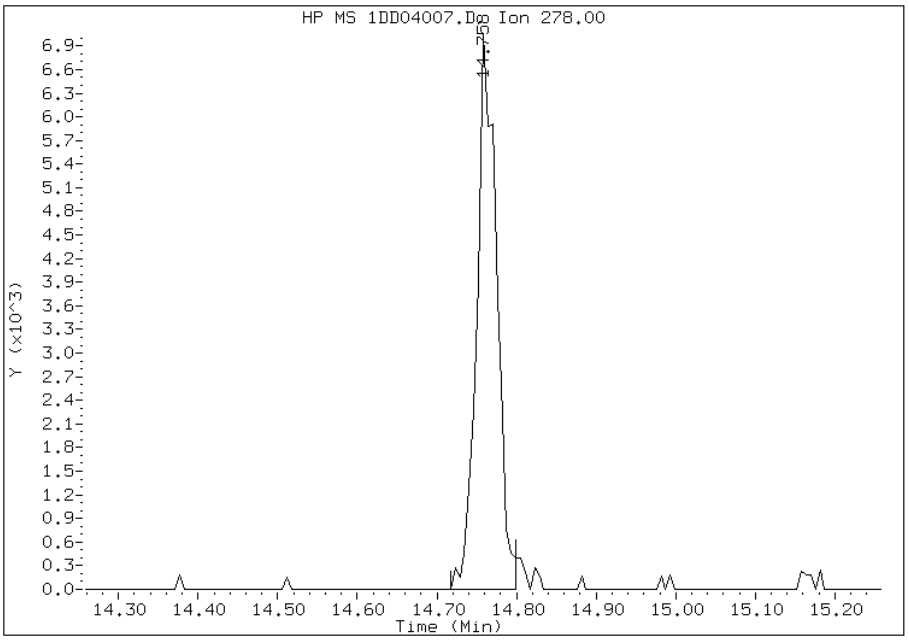
Processing Integration Results

RT: 14.76

Response: 12250

Amount: 0

Conc: 0



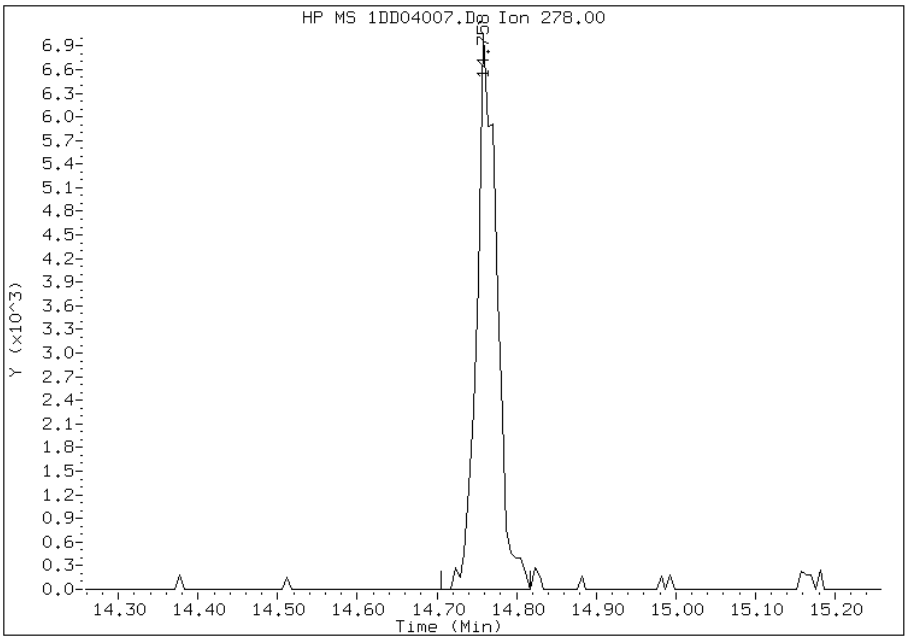
Manual Integration Results

RT: 14.76

Response: 12466

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04008.D
Lab Smp Id: IC-1531398
Inj Date : 04-APR-2013 14:11
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 13:49 Cal File: 1DD04007.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
* 1 Naphthalene-d8	136	6.089	6.089	(1.000)	2465772	40.0000	
* 6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1452284	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2423707	40.0000	
$ 13 o-Terphenyl	230	9.332	9.332	(1.034)	33997	1.00000	0.93
* 17 Chrysene-d12	240	11.336	11.336	(1.000)	2420423	40.0000	
* 22 Perylene-d12	264	13.163	13.163	(1.000)	2501899	40.0000	
2 Naphthalene	128	6.112	6.112	(1.004)	59216	1.00000	0.97
3 2-Methylnaphthalene	142	6.817	6.817	(1.120)	37688	1.00000	0.95
4 1-Methylnaphthalene	142	6.911	6.911	(1.135)	35645	1.00000	0.95
5 Acenaphthylene	152	7.640	7.640	(0.983)	56340	1.00000	0.92
7 Acenaphthene	154	7.793	7.793	(1.003)	35951	1.00000	0.95
8 Fluorene	166	8.233	8.233	(1.060)	42826	1.00000	0.95
10 Phenanthrene	178	9.038	9.038	(1.001)	63070	1.00000	0.94
11 Anthracene	178	9.080	9.080	(1.006)	61222	1.00000	0.92
12 Carbazole	167	9.221	9.221	(1.021)	55563	1.00000	0.95
14 Fluoranthene	202	10.020	10.020	(1.110)	64445	1.00000	0.94
15 Pyrene	202	10.208	10.208	(0.900)	69252	1.00000	0.95
16 Benzo(a)anthracene	228	11.318	11.318	(0.998)	68675	1.00000	1.0
18 Chrysene	228	11.359	11.359	(1.002)	63553	1.00000	0.97
19 Benzo(b)fluoranthene	252	12.611	12.611	(0.958)	57946	1.00000	0.93
20 Benzo(k)fluoranthene	252	12.646	12.646	(0.961)	64288	1.00000	0.98
21 Benzo(a)pyrene	252	13.057	13.057	(0.992)	58354	1.00000	0.93
23 Indeno(1,2,3-cd)pyrene	276	14.732	14.732	(1.119)	62840	1.00000	0.94(M)
24 Dibenzo(a,h)anthracene	278	14.761	14.761	(1.121)	57541	1.00000	0.91(M)
25 Benzo(g,h,i)perylene	276	15.167	15.167	(1.152)	62750	1.00000	0.97

QC Flag Legend

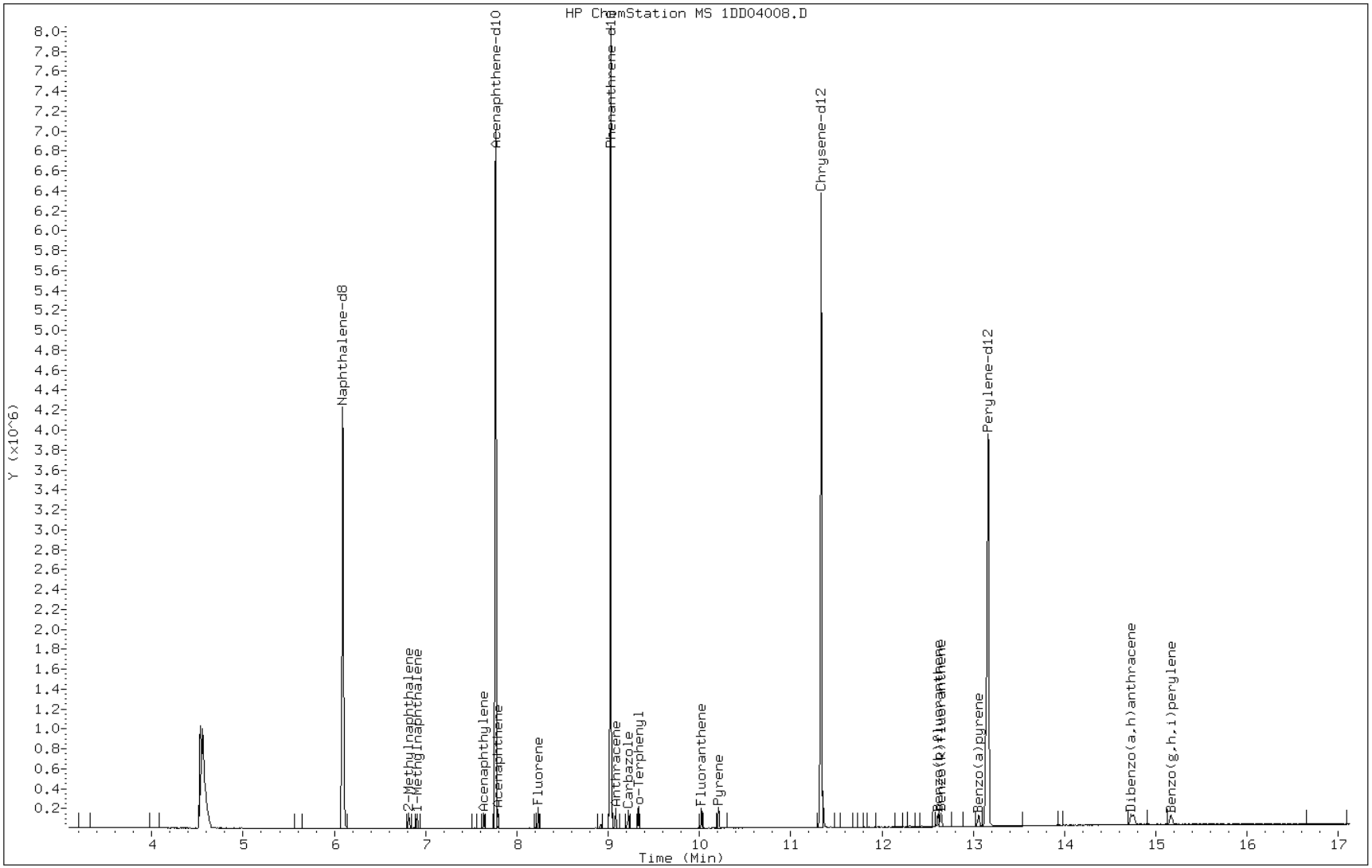
M - Compound response manually integrated.

Data File: 1DD04008.D

Date: 04-APR-2013 14:11

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

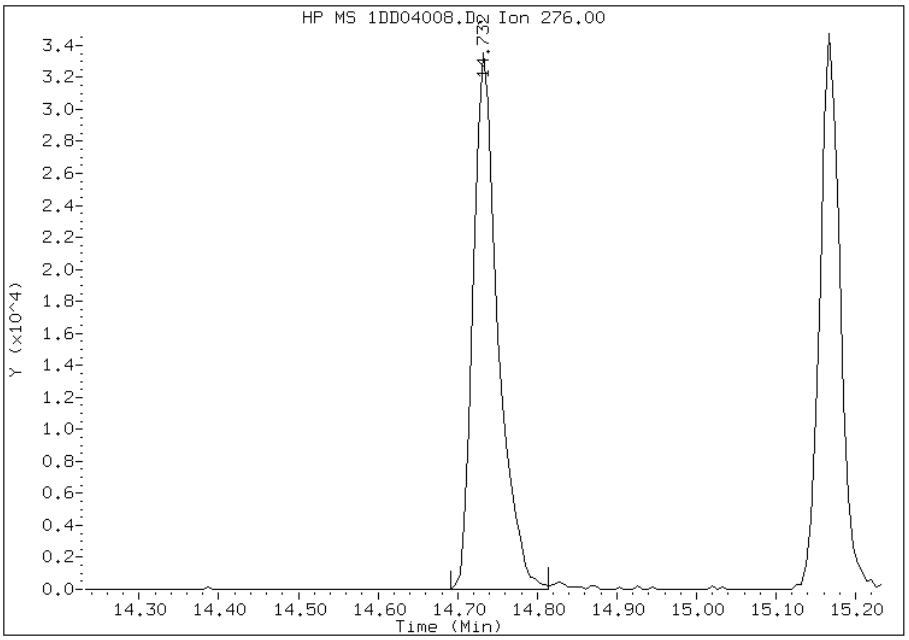
Processing Integration Results

RT: 14.73

Response: 72512

Amount: 1

Conc: 1



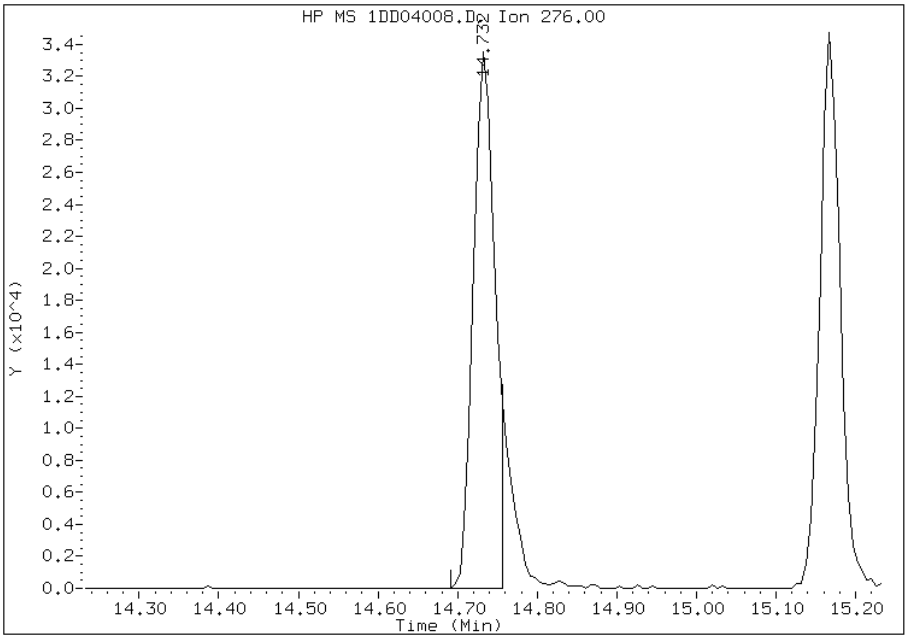
Manual Integration Results

RT: 14.73

Response: 62840

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

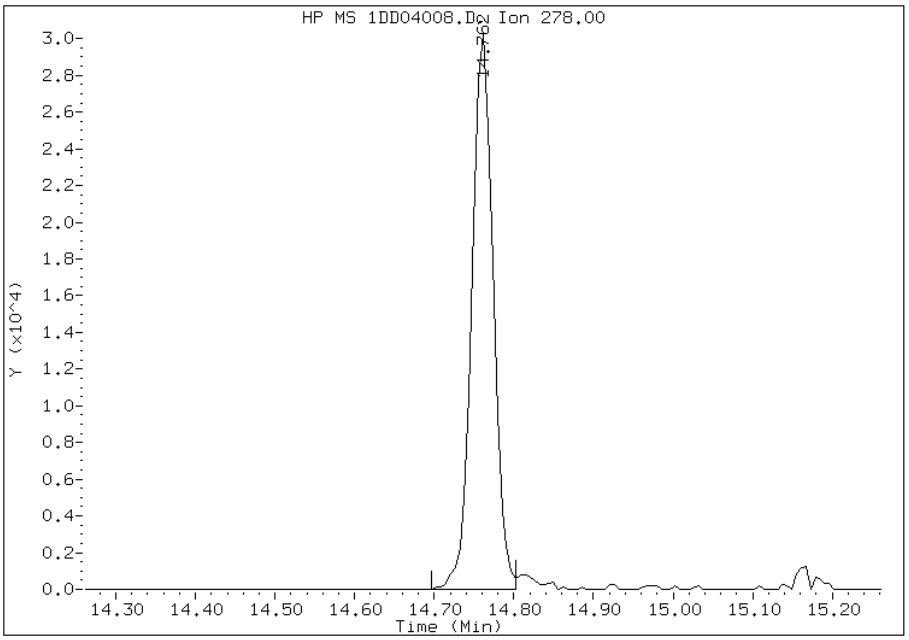
Processing Integration Results

RT: 14.76

Response: 56125

Amount: 1

Conc: 1



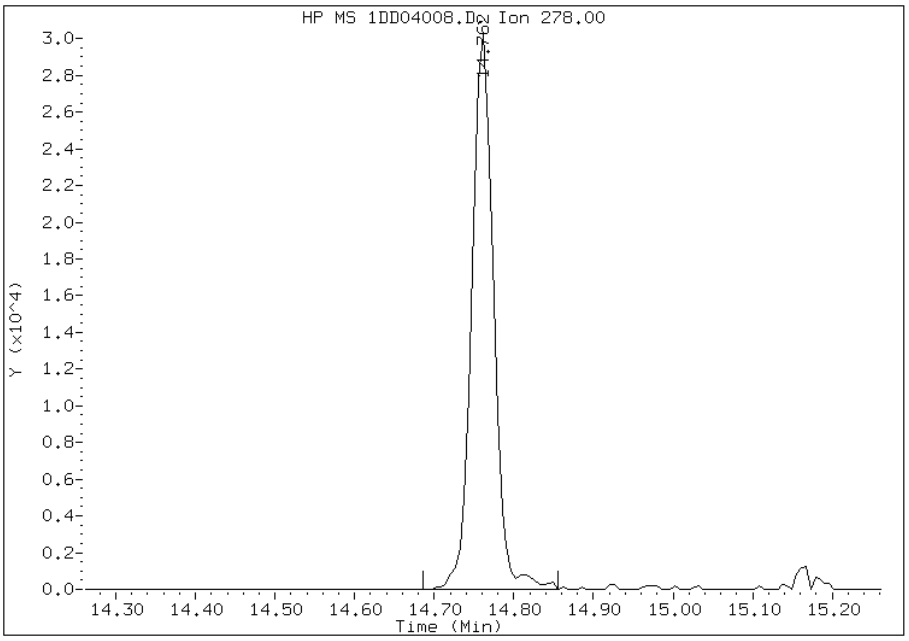
Manual Integration Results

RT: 14.76

Response: 57541

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04009.D
Lab Smp Id: IC-1531399
Inj Date : 04-APR-2013 14:34
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:11 Cal File: 1DD04008.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.093	6.093	(1.000)	2459101	40.0000	
*	6 Acenaphthene-d10	164	7.768	7.768	(1.000)	1451469	40.0000	
*	9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2413975	40.0000	
$	13 o-Terphenyl	230	9.331	9.331	(1.034)	185249	5.00000	5.1
*	17 Chrysene-d12	240	11.340	11.340	(1.000)	2435324	40.0000	
*	22 Perylene-d12	264	13.167	13.167	(1.000)	2525708	40.0000	
	2 Naphthalene	128	6.111	6.111	(1.003)	316194	5.00000	5.2
	3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	200332	5.00000	5.1
	4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	190230	5.00000	5.1
	5 Acenaphthylene	152	7.639	7.639	(0.983)	314191	5.00000	5.1
	7 Acenaphthene	154	7.791	7.791	(1.003)	193205	5.00000	5.1
	8 Fluorene	166	8.232	8.232	(1.060)	223769	5.00000	5.0
	10 Phenanthrene	178	9.043	9.043	(1.002)	338739	5.00000	5.1
	11 Anthracene	178	9.084	9.084	(1.007)	335430	5.00000	5.1
	12 Carbazole	167	9.219	9.219	(1.021)	295345	5.00000	5.1
	14 Fluoranthene	202	10.024	10.024	(1.111)	348578	5.00000	5.1
	15 Pyrene	202	10.212	10.212	(0.901)	374480	5.00000	5.1
	16 Benzo(a)anthracene	228	11.323	11.323	(0.998)	339292	5.00000	5.1
	18 Chrysene	228	11.358	11.358	(1.002)	329706	5.00000	5.0
	19 Benzo(b)fluoranthene	252	12.615	12.615	(0.958)	323060	5.00000	5.1
	20 Benzo(k)fluoranthene	252	12.650	12.650	(0.961)	328752	5.00000	4.9
	21 Benzo(a)pyrene	252	13.062	13.062	(0.992)	318431	5.00000	5.0
	23 Indeno(1,2,3-cd)pyrene	276	14.742	14.742	(1.120)	336963	5.00000	5.0(M)
	24 Dibenzo(a,h)anthracene	278	14.766	14.766	(1.121)	316396	5.00000	5.0
	25 Benzo(g,h,i)perylene	276	15.177	15.177	(1.153)	331324	5.00000	5.1

QC Flag Legend

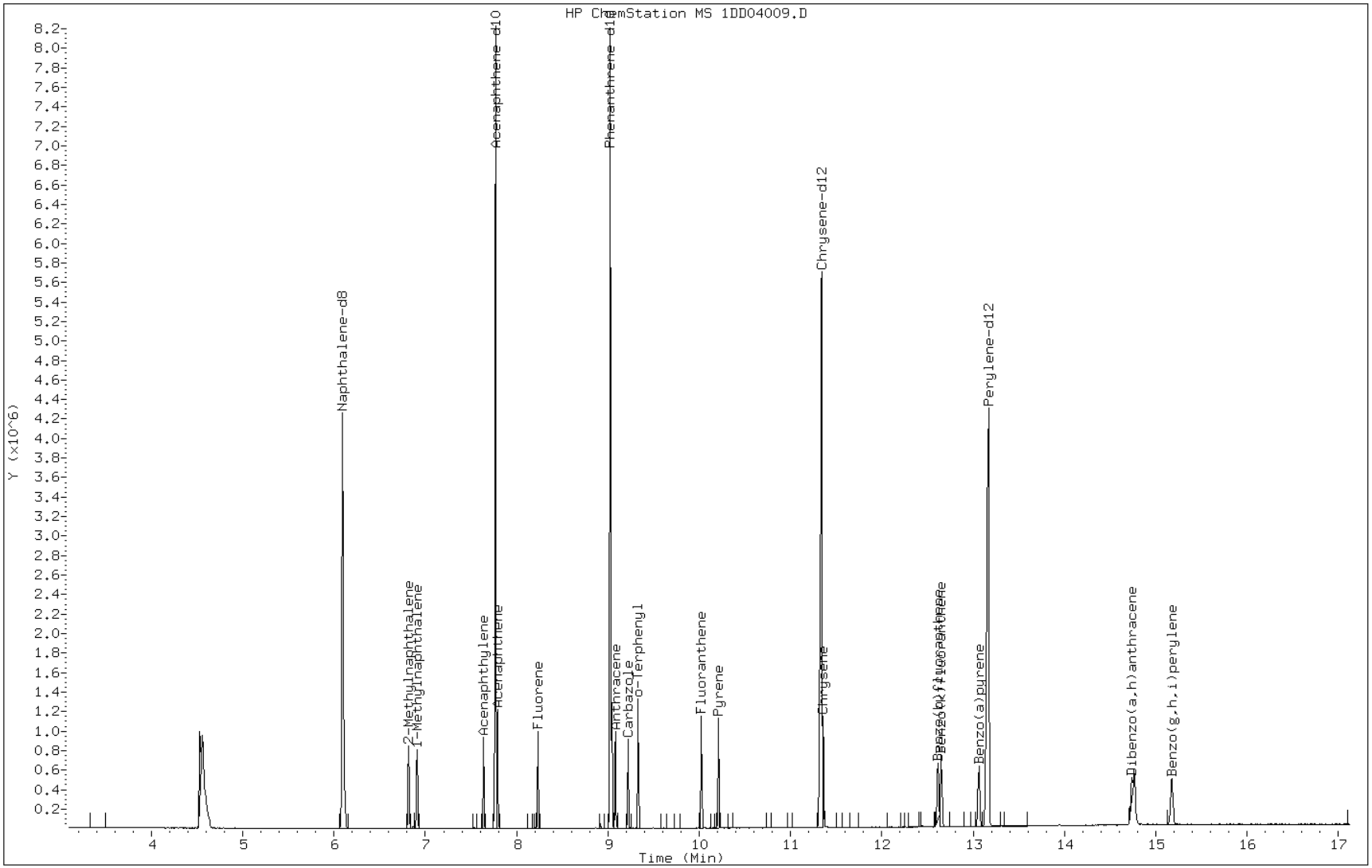
M - Compound response manually integrated.

Data File: 1DD04009.D

Date: 04-APR-2013 14:34

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1DD04009.D
Inj. Date and Time: 04-APR-2013 14:34
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

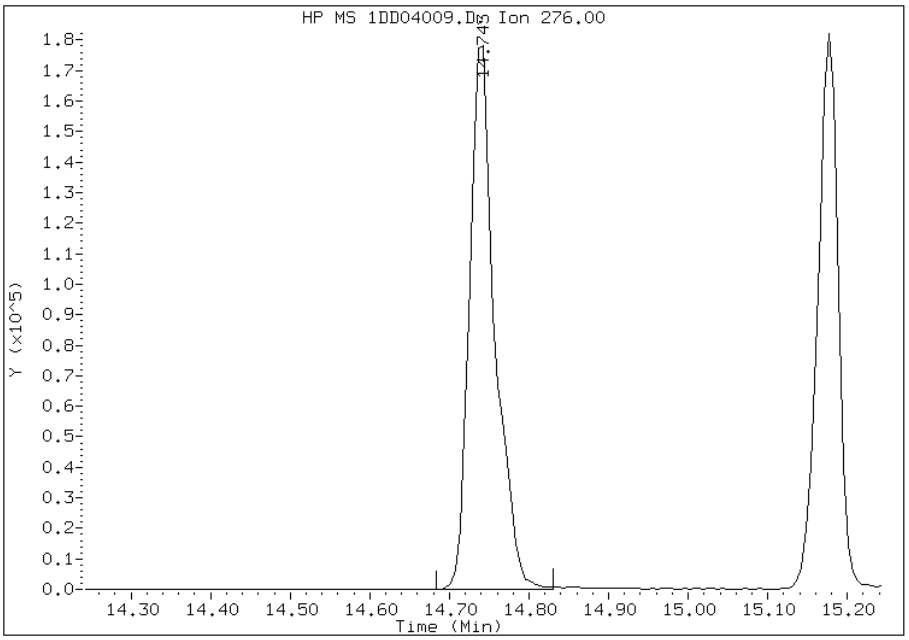
Processing Integration Results

RT: 14.74

Response: 395308

Amount: 5

Conc: 5



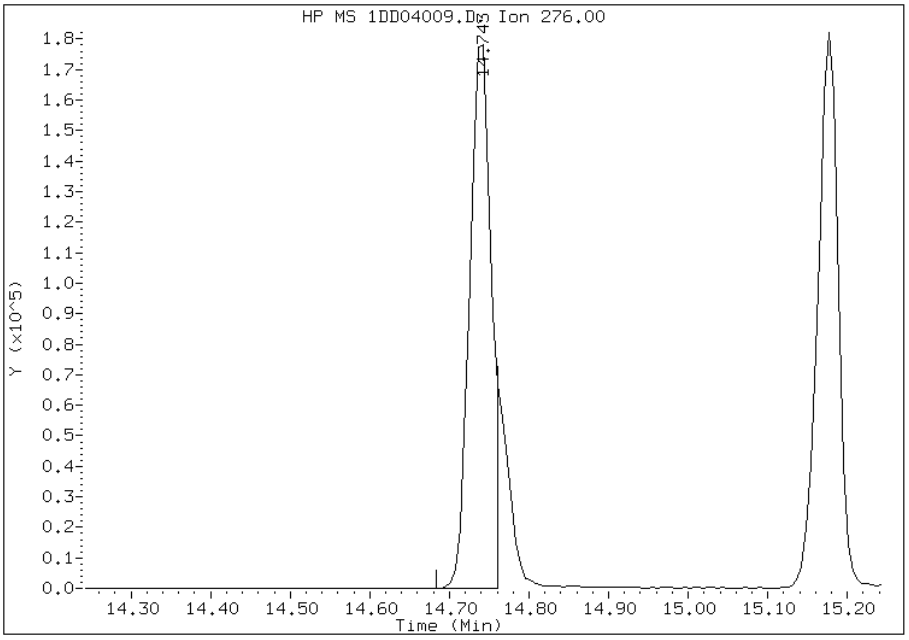
Manual Integration Results

RT: 14.74

Response: 336963

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04010.D
Lab Smp Id: IC-1531400
Inj Date : 04-APR-2013 14:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:34 Cal File: 1DD04009.D
Als bottle: 8 Calibration Sample, Level: 4
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/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.093	6.093	(1.000)	2548377	40.0000	
*	6 Acenaphthene-d10	164	7.767	7.767	(1.000)	1478460	40.0000	
*	9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2445573	40.0000	
$	13 o-Terphenyl	230	9.330	9.330	(1.034)	360585	10.0000	9.8
*	17 Chrysene-d12	240	11.340	11.340	(1.000)	2472736	40.0000	
*	22 Perylene-d12	264	13.167	13.167	(1.000)	2524268	40.0000	
	2 Naphthalene	128	6.110	6.110	(1.003)	614716	10.0000	9.7
	3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	401151	10.0000	9.8
	4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	377068	10.0000	9.8
	5 Acenaphthylene	152	7.638	7.638	(0.983)	620756	10.0000	9.9
	7 Acenaphthene	154	7.791	7.791	(1.003)	375673	10.0000	9.7
	8 Fluorene	166	8.237	8.237	(1.061)	453336	10.0000	9.9
	10 Phenanthrene	178	9.042	9.042	(1.002)	657435	10.0000	9.8
	11 Anthracene	178	9.083	9.083	(1.007)	663091	10.0000	9.9
	12 Carbazole	167	9.224	9.224	(1.022)	584967	10.0000	9.9
	14 Fluoranthene	202	10.024	10.024	(1.111)	684049	10.0000	9.9
	15 Pyrene	202	10.212	10.212	(0.901)	738839	10.0000	9.9
	16 Benzo(a)anthracene	228	11.322	11.322	(0.998)	655565	10.0000	9.7
	18 Chrysene	228	11.363	11.363	(1.002)	641842	10.0000	9.6
	19 Benzo(b)fluoranthene	252	12.621	12.621	(0.959)	612455	10.0000	9.7
	20 Benzo(k)fluoranthene	252	12.656	12.656	(0.961)	667284	10.0000	10
	21 Benzo(a)pyrene	252	13.067	13.067	(0.992)	629684	10.0000	9.9
	23 Indeno(1,2,3-cd)pyrene	276	14.747	14.747	(1.120)	647015	10.0000	9.6(M)
	24 Dibenzo(a,h)anthracene	278	14.777	14.777	(1.122)	621340	10.0000	9.8
	25 Benzo(g,h,i)perylene	276	15.188	15.188	(1.153)	642692	10.0000	9.9

QC Flag Legend

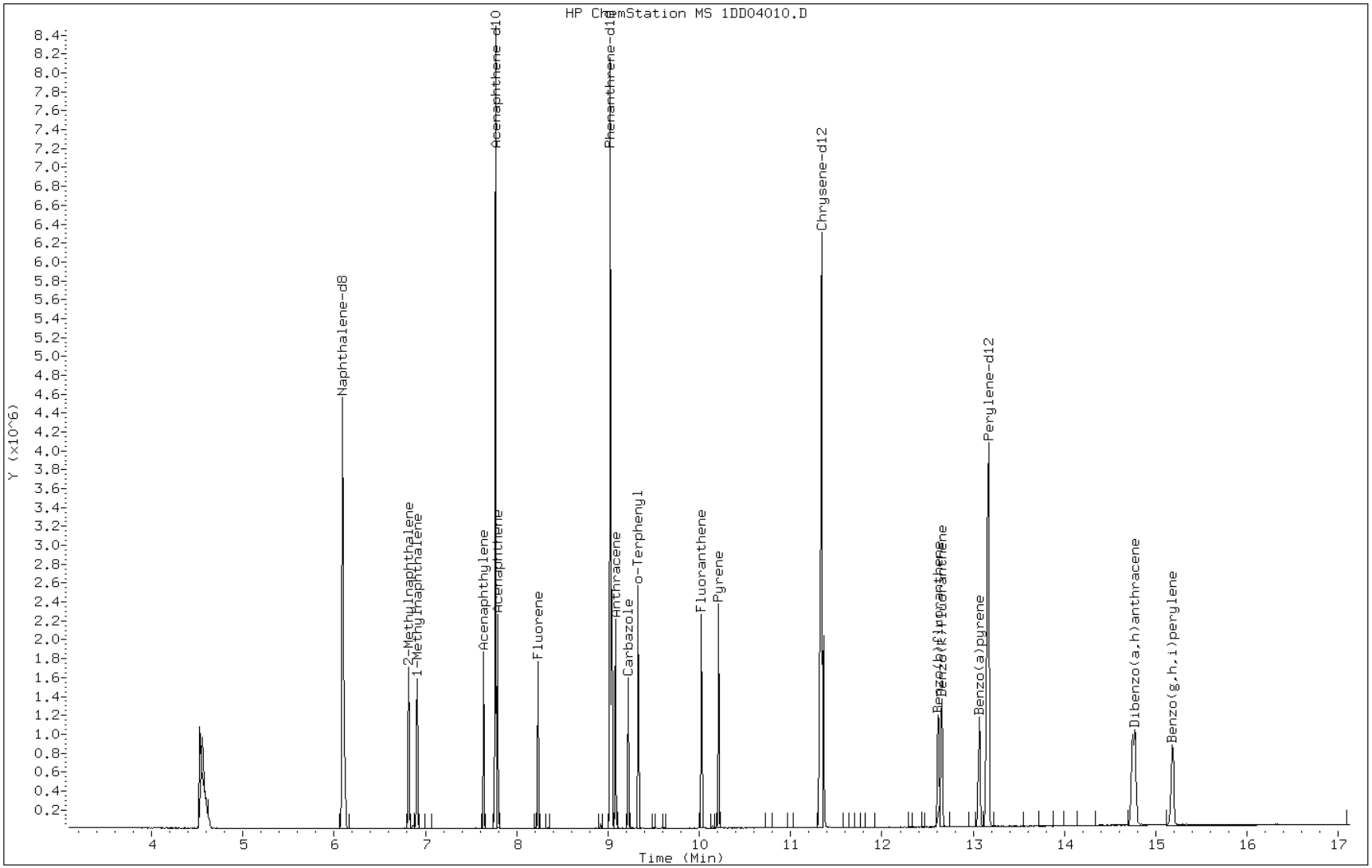
M - Compound response manually integrated.

Data File: 1DD04010.D

Date: 04-APR-2013 14:57

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531400 Operator: SCC



Manual Integration Report

Data File: 1DD04010.D
Inj. Date and Time: 04-APR-2013 14:57
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

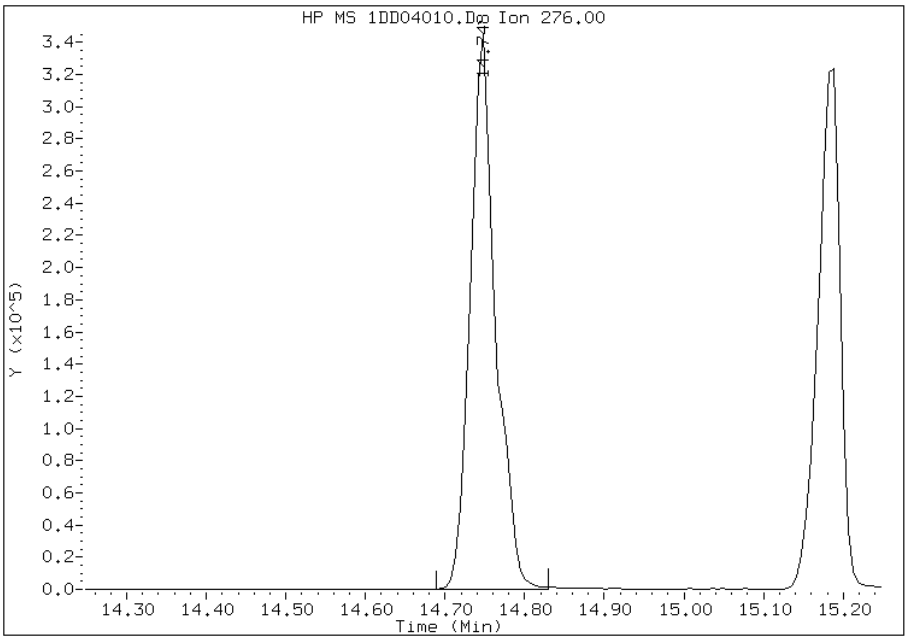
Processing Integration Results

RT: 14.75

Response: 759012

Amount: 10

Conc: 10



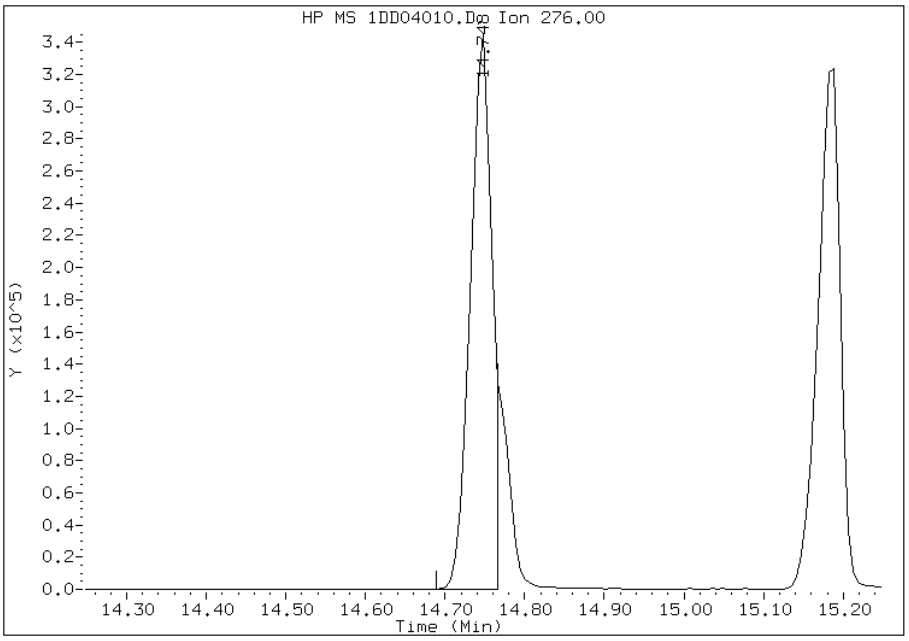
Manual Integration Results

RT: 14.75

Response: 647015

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04011.D
Lab Smp Id: ICIS-1531401
Inj Date : 04-APR-2013 15:19
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:57 Cal File: 1DD04010.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE 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/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.089	6.089	(1.000)	2475113	40.0000	
*	6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1466924	40.0000	
*	9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2428512	40.0000	
$	13 o-Terphenyl	230	9.332	9.332	(1.034)	754512	20.0000	21
*	17 Chrysene-d12	240	11.342	11.342	(1.000)	2464730	40.0000	
*	22 Perylene-d12	264	13.169	13.169	(1.000)	2515643	40.0000	
	2 Naphthalene	128	6.113	6.113	(1.004)	1235557	20.0000	20
	3 2-Methylnaphthalene	142	6.818	6.818	(1.120)	806286	20.0000	20
	4 1-Methylnaphthalene	142	6.912	6.912	(1.135)	757317	20.0000	20
	5 Acenaphthylene	152	7.640	7.640	(0.983)	1275622	20.0000	20
	7 Acenaphthene	154	7.793	7.793	(1.003)	757590	20.0000	20
	8 Fluorene	166	8.234	8.234	(1.060)	918747	20.0000	20
	10 Phenanthrene	178	9.044	9.044	(1.002)	1331875	20.0000	20
	11 Anthracene	178	9.086	9.086	(1.007)	1360668	20.0000	20
	12 Carbazole	167	9.227	9.227	(1.022)	1202897	20.0000	20
	14 Fluoranthene	202	10.026	10.026	(1.111)	1392506	20.0000	20
	15 Pyrene	202	10.214	10.214	(0.901)	1496990	20.0000	20
	16 Benzo(a)anthracene	228	11.324	11.324	(0.998)	1332372	20.0000	20
	18 Chrysene	228	11.365	11.365	(1.002)	1305118	20.0000	20
	19 Benzo(b)fluoranthene	252	12.623	12.623	(0.959)	1270704	20.0000	20
	20 Benzo(k)fluoranthene	252	12.664	12.664	(0.962)	1319239	20.0000	20
	21 Benzo(a)pyrene	252	13.075	13.075	(0.993)	1276688	20.0000	20
	23 Indeno(1,2,3-cd)pyrene	276	14.761	14.761	(1.121)	1333044	20.0000	20(M)
	24 Dibenzo(a,h)anthracene	278	14.785	14.785	(1.123)	1273836	20.0000	20
	25 Benzo(g,h,i)perylene	276	15.202	15.202	(1.154)	1285637	20.0000	20

QC Flag Legend

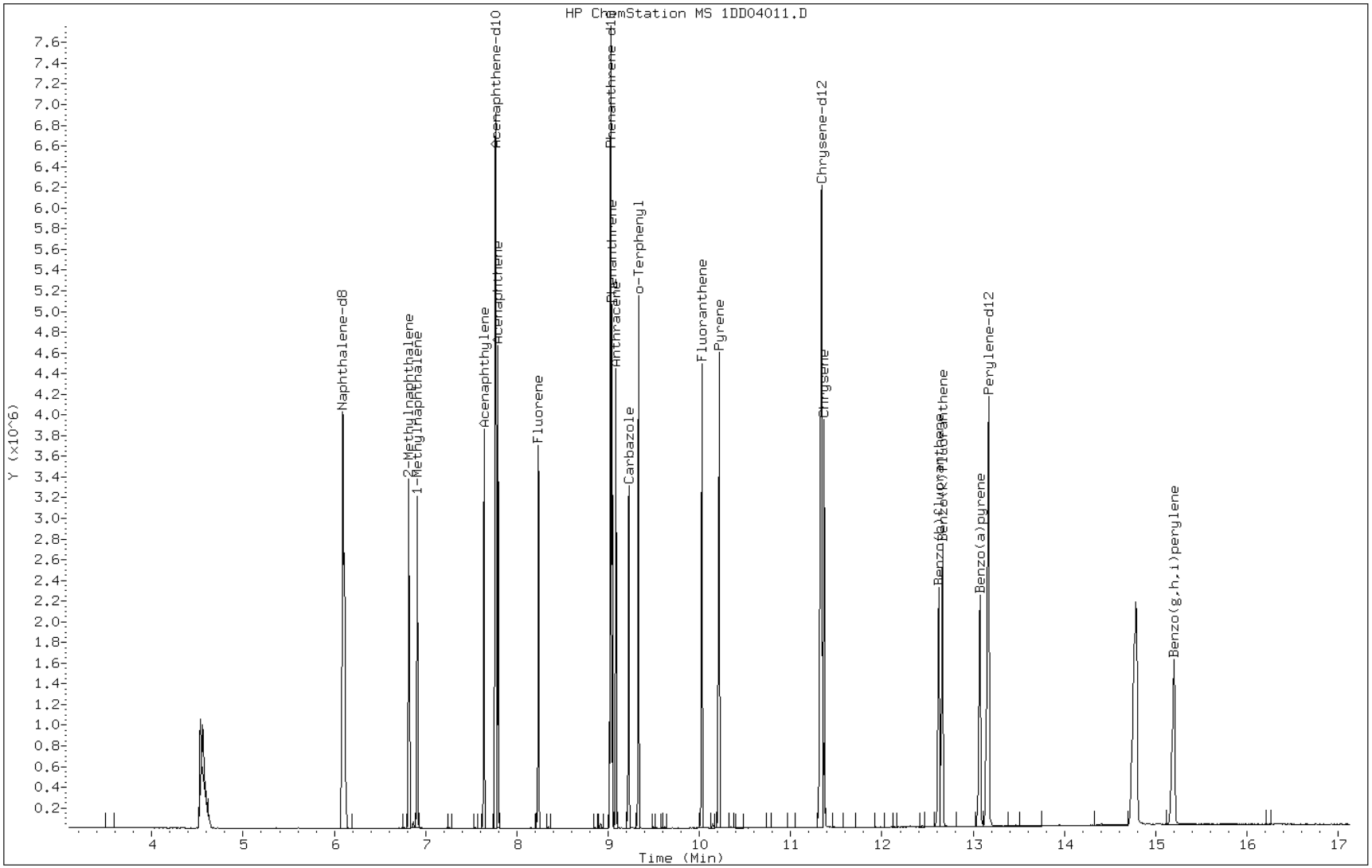
M - Compound response manually integrated.

Data File: 1DD04011.D

Date: 04-APR-2013 15:19

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1DD04011.D
Inj. Date and Time: 04-APR-2013 15:19
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

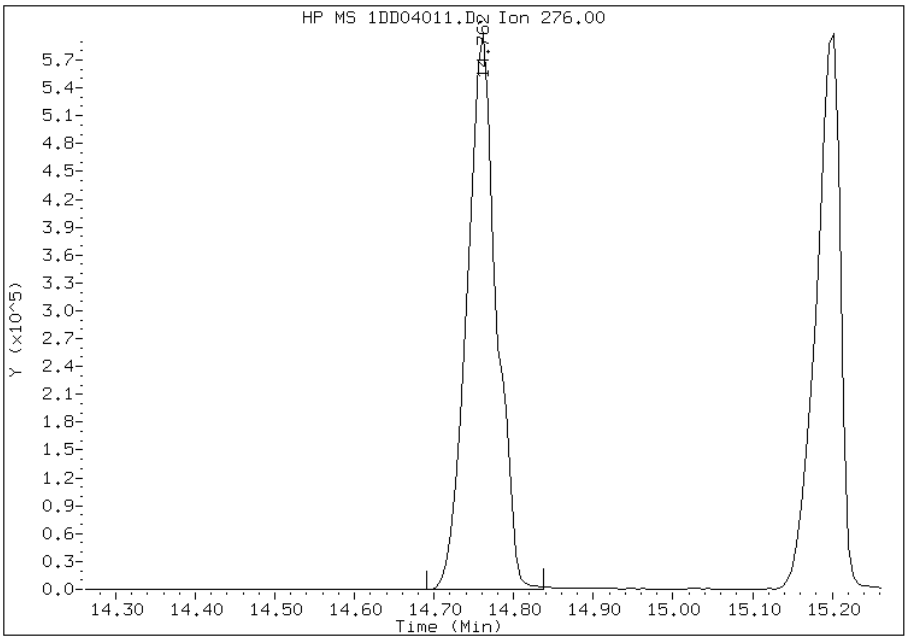
Processing Integration Results

RT: 14.76

Response: 1546230

Amount: 22

Conc: 22



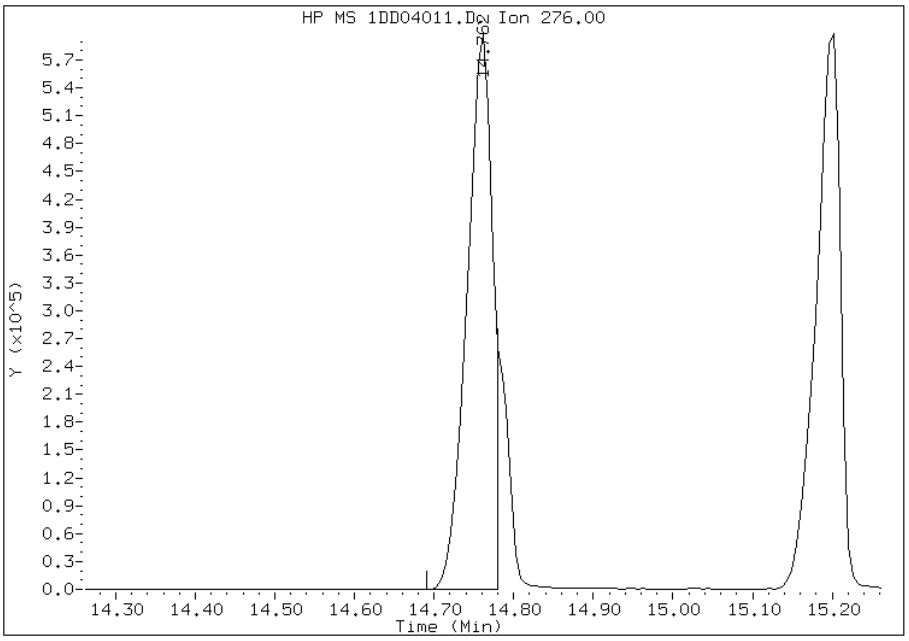
Manual Integration Results

RT: 14.76

Response: 1333044

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04012.D
Lab Smp Id: IC-1531402
Inj Date : 04-APR-2013 15:42
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:19 Cal File: 1DD04011.D
Als bottle: 10 Calibration Sample, Level: 6
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/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.090	6.090	(1.000)	2316091	40.0000	
*	6 Acenaphthene-d10	164	7.765	7.765	(1.000)	1349878	40.0000	
*	9 Phenanthrene-d10	188	9.028	9.028	(1.000)	2295562	40.0000	
$	13 o-Terphenyl	230	9.334	9.334	(1.034)	1074388	30.0000	31
*	17 Chrysene-d12	240	11.343	11.343	(1.000)	2345845	40.0000	
*	22 Perylene-d12	264	13.170	13.170	(1.000)	2343379	40.0000	
	2 Naphthalene	128	6.114	6.114	(1.004)	1777021	30.0000	31
	3 2-Methylnaphthalene	142	6.819	6.819	(1.120)	1162560	30.0000	31
	4 1-Methylnaphthalene	142	6.913	6.913	(1.135)	1096847	30.0000	31
	5 Acenaphthylene	152	7.642	7.642	(0.984)	1852399	30.0000	32
	7 Acenaphthene	154	7.794	7.794	(1.004)	1100779	30.0000	31
	8 Fluorene	166	8.235	8.235	(1.061)	1323451	30.0000	32
	10 Phenanthrene	178	9.046	9.046	(1.002)	1932978	30.0000	30
	11 Anthracene	178	9.087	9.087	(1.007)	1981347	30.0000	32
	12 Carbazole	167	9.228	9.228	(1.022)	1717245	30.0000	31
	14 Fluoranthene	202	10.027	10.027	(1.111)	2025512	30.0000	31
	15 Pyrene	202	10.215	10.215	(0.901)	2181708	30.0000	31
	16 Benzo(a)anthracene	228	11.326	11.326	(0.998)	1914899	30.0000	30
	18 Chrysene	228	11.367	11.367	(1.002)	1900592	30.0000	30
	19 Benzo(b)fluoranthene	252	12.630	12.630	(0.959)	1811151	30.0000	31
	20 Benzo(k)fluoranthene	252	12.671	12.671	(0.962)	1910468	30.0000	31
	21 Benzo(a)pyrene	252	13.082	13.082	(0.993)	1854979	30.0000	32
	23 Indeno(1,2,3-cd)pyrene	276	14.769	14.769	(1.121)	2011375	30.0000	32(M)
	24 Dibenzo(a,h)anthracene	278	14.798	14.798	(1.124)	1840819	30.0000	31
	25 Benzo(g,h,i)perylene	276	15.209	15.209	(1.155)	1860821	30.0000	31

QC Flag Legend

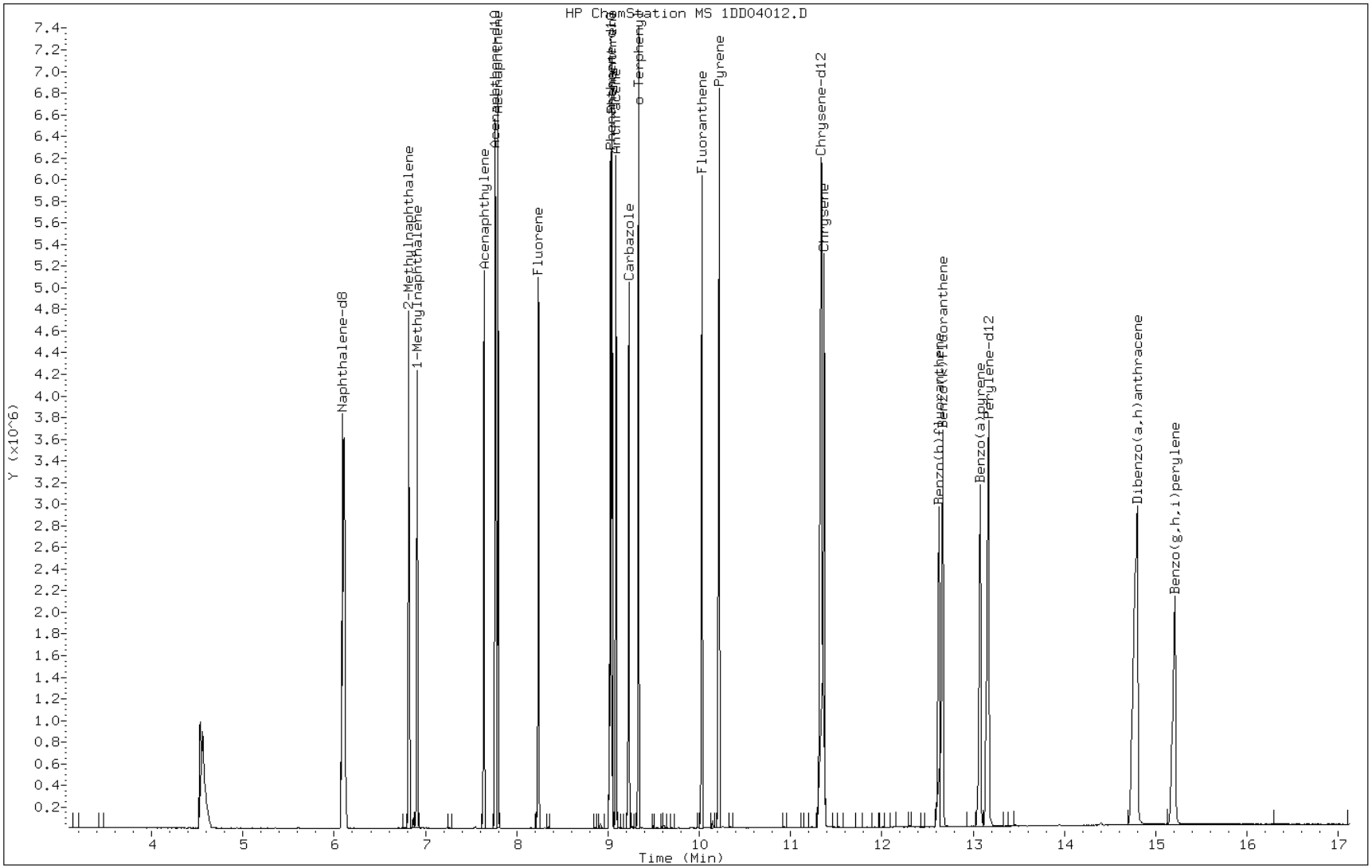
M - Compound response manually integrated.

Data File: 1DD04012.D

Date: 04-APR-2013 15:42

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531402 Operator: SCC



Manual Integration Report

Data File: 1DD04012.D
Inj. Date and Time: 04-APR-2013 15:42
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

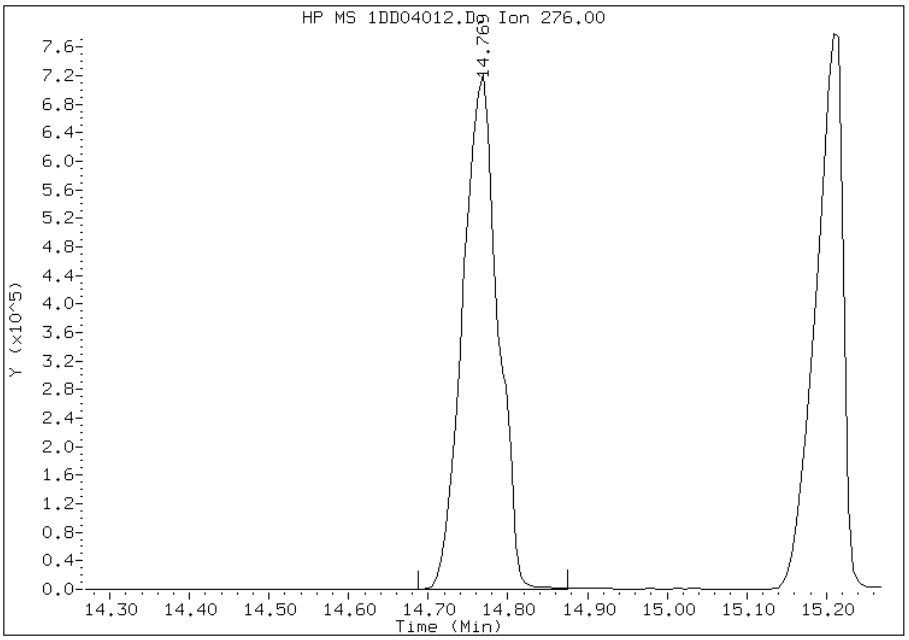
Processing Integration Results

RT: 14.77

Response: 2221522

Amount: 32

Conc: 32



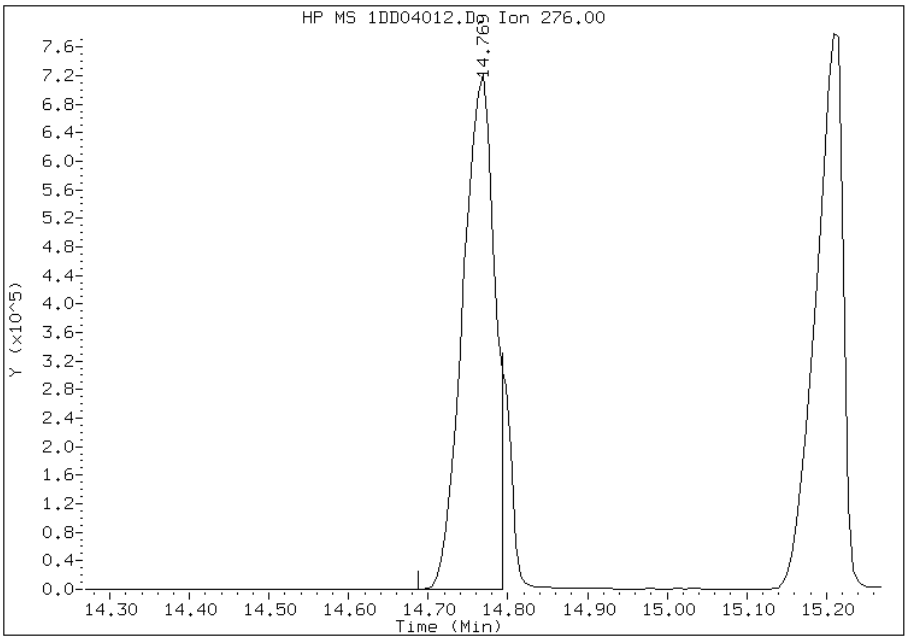
Manual Integration Results

RT: 14.77

Response: 2011375

Amount: 32

Conc: 32



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04013.D
Lab Smp Id: IC-1531403
Inj Date : 04-APR-2013 16:04
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:42 Cal File: 1DD04012.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE 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/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.090	6.090	(1.000)	2444753	40.0000	
*	6 Acenaphthene-d10	164	7.770	7.770	(1.000)	1439391	40.0000	
*	9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2373597	40.0000	
$	13 o-Terphenyl	230	9.339	9.339	(1.034)	2031596	50.0000	57(A)
*	17 Chrysene-d12	240	11.348	11.348	(1.000)	2479223	40.0000	
*	22 Perylene-d12	264	13.175	13.175	(1.000)	2461140	40.0000	
	2 Naphthalene	128	6.113	6.113	(1.004)	3211548	50.0000	53(A)
	3 2-Methylnaphthalene	142	6.818	6.818	(1.120)	2134320	50.0000	54(A)
	4 1-Methylnaphthalene	142	6.912	6.912	(1.135)	1999874	50.0000	54(A)
	5 Acenaphthylene	152	7.641	7.641	(0.983)	3396591	50.0000	56(A)
	7 Acenaphthene	154	7.799	7.799	(1.004)	2018481	50.0000	54(A)
	8 Fluorene	166	8.240	8.240	(1.060)	2393163	50.0000	54(A)
	10 Phenanthrene	178	9.051	9.051	(1.003)	3534794	50.0000	54(A)
	11 Anthracene	178	9.092	9.092	(1.007)	3590722	50.0000	55(A)
	12 Carbazole	167	9.233	9.233	(1.023)	3137679	50.0000	55(A)
	14 Fluoranthene	202	10.032	10.032	(1.111)	3681257	50.0000	55(A)
	15 Pyrene	202	10.220	10.220	(0.901)	3965627	50.0000	53(A)
	16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	3388838	50.0000	50(A)
	18 Chrysene	228	11.377	11.377	(1.003)	3512644	50.0000	52(A)
	19 Benzo(b)fluoranthene	252	12.635	12.635	(0.959)	3290902	50.0000	54(A)
	20 Benzo(k)fluoranthene	252	12.682	12.682	(0.963)	3421834	50.0000	53(A)
	21 Benzo(a)pyrene	252	13.093	13.093	(0.994)	3327888	50.0000	54(A)
	23 Indeno(1,2,3-cd)pyrene	276	14.785	14.785	(1.122)	3754268	50.0000	57(AM)
	24 Dibenzo(a,h)anthracene	278	14.826	14.826	(1.125)	3350541	50.0000	54(A)
	25 Benzo(g,h,i)perylene	276	15.238	15.238	(1.157)	3284166	50.0000	52(A)

QC Flag Legend

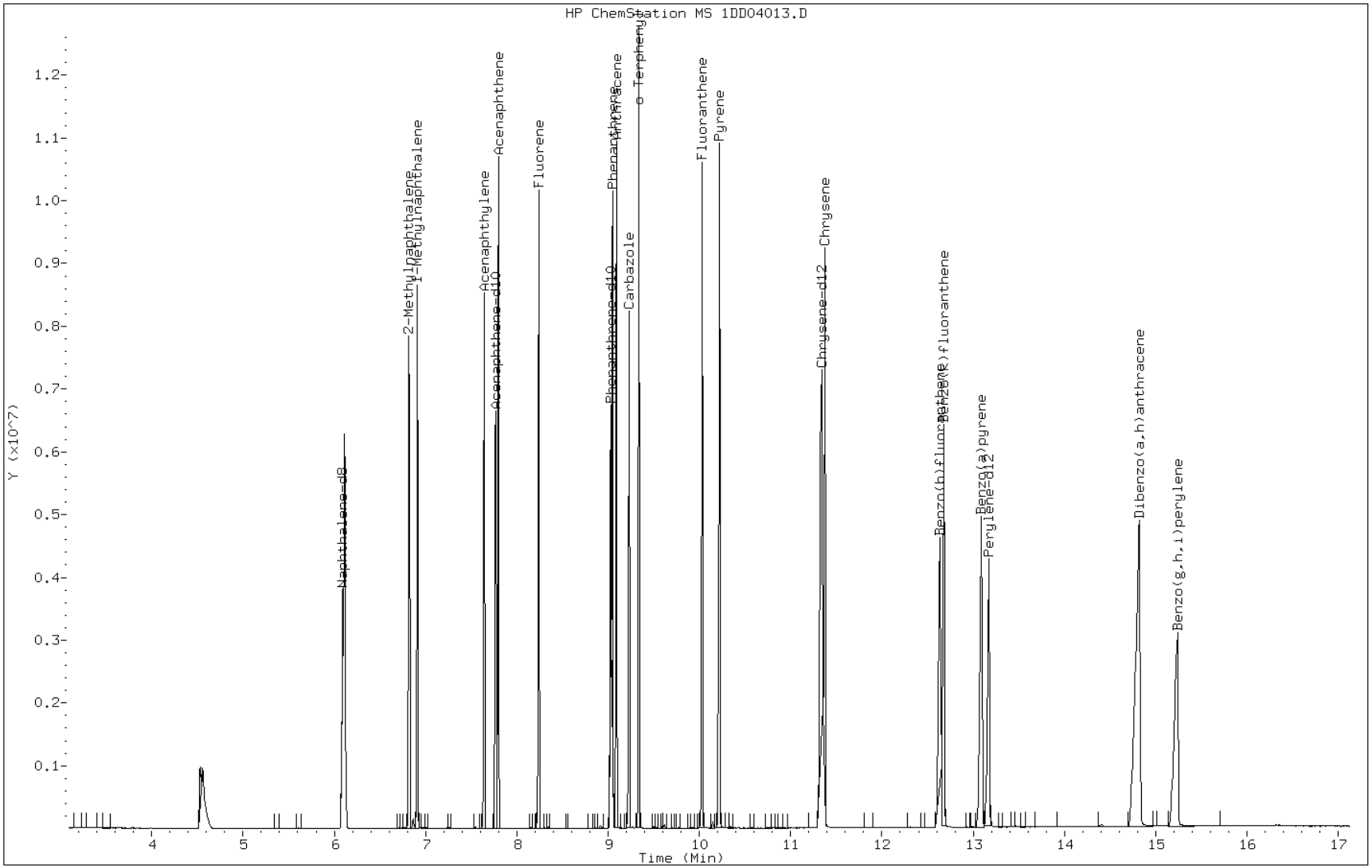
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DD04013.D

Date: 04-APR-2013 16:04

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1DD04013.D
Inj. Date and Time: 04-APR-2013 16:04
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

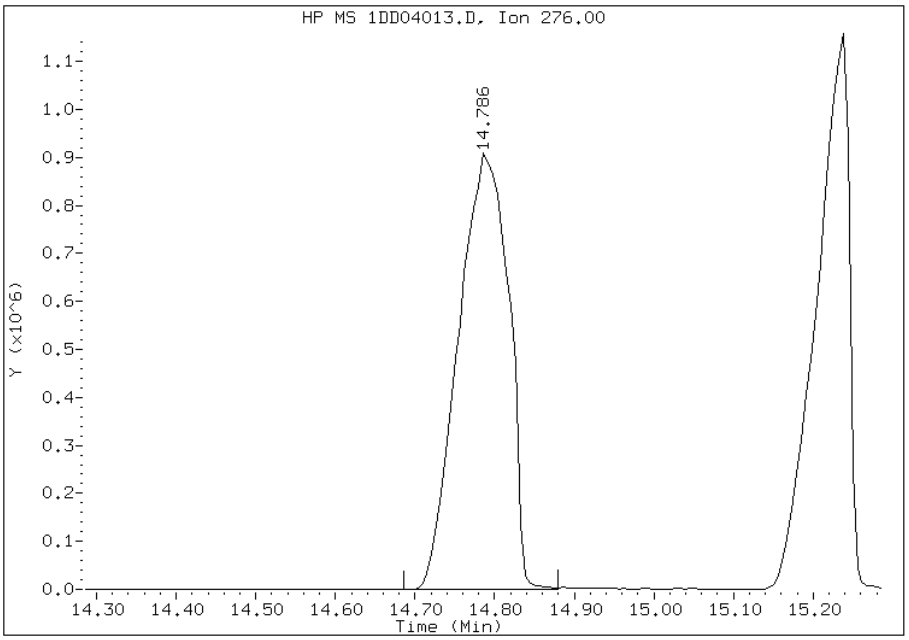
Processing Integration Results

RT: 14.79

Response: 3993028

Amount: 54

Conc: 54



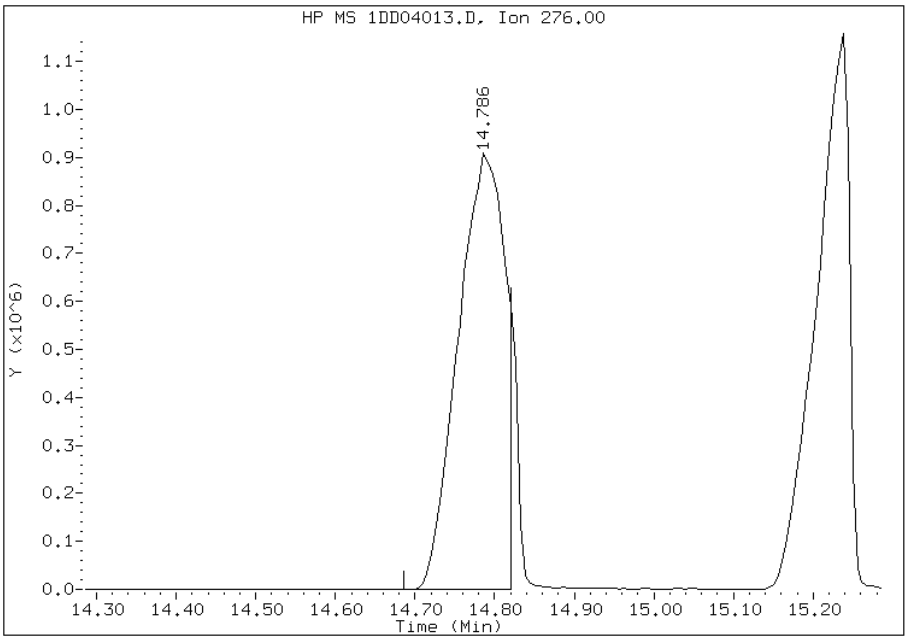
Manual Integration Results

RT: 14.79

Response: 3754268

Amount: 57

Conc: 57



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

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

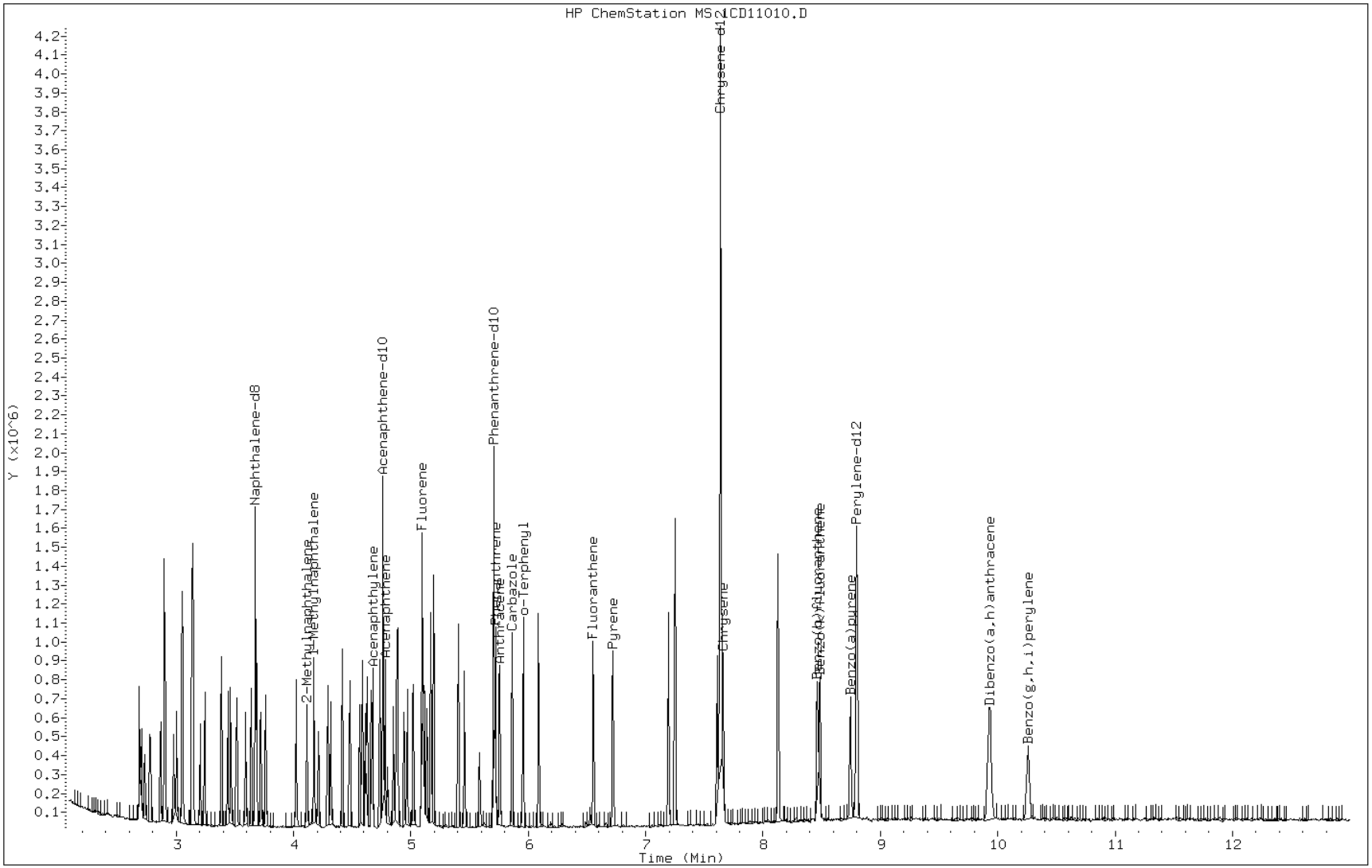
M - Compound response manually integrated.

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

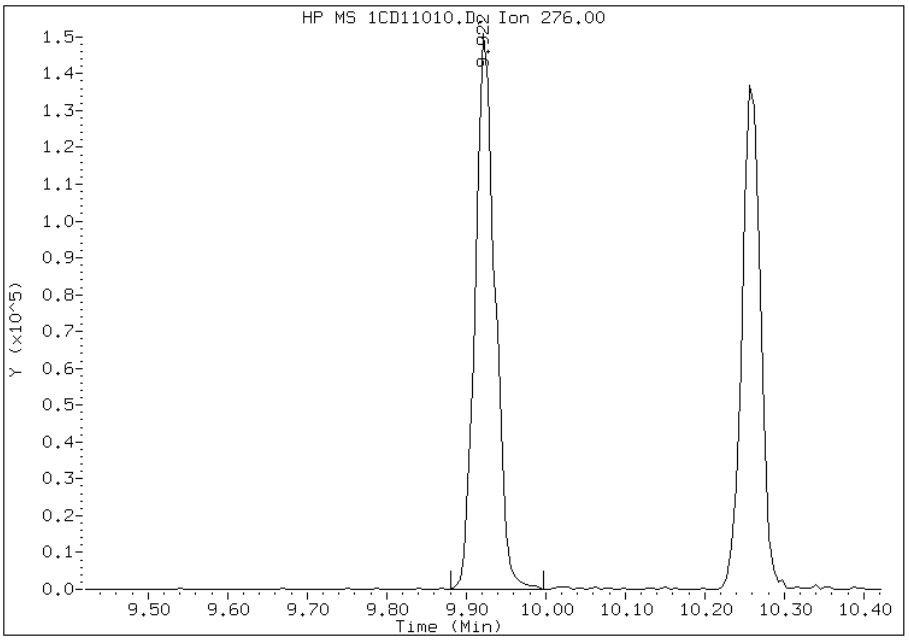
Processing Integration Results

RT: 9.92

Response: 260276

Amount: 21

Conc: 21



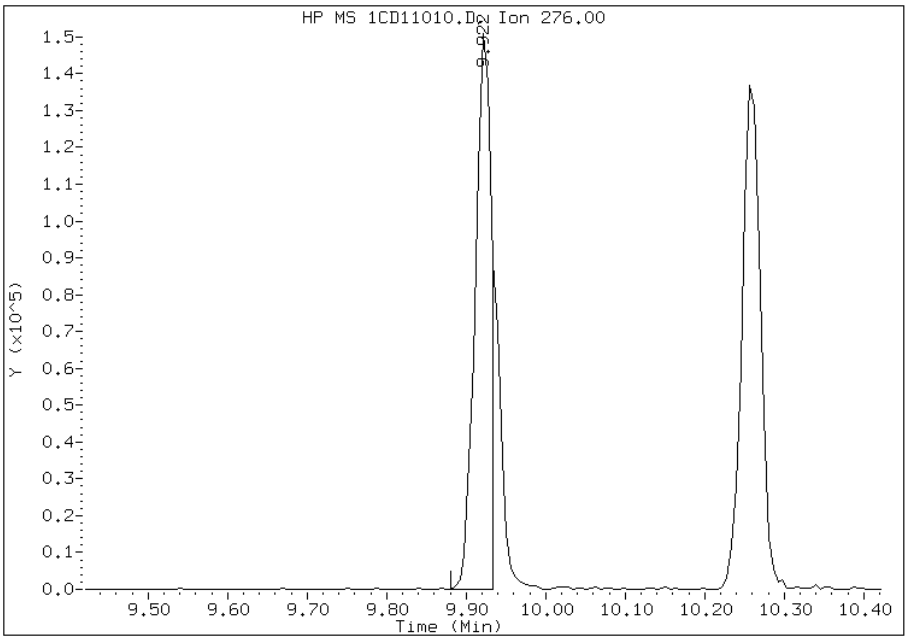
Manual Integration Results

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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab Sample ID: CCVIS 660-136590/3 Calibration Date: 04/17/2013 10:18

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: 1CD17003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.014	0.0000	18800	20000	-6.2	20.0
2-Methylnaphthalene	Lin	0.6730	0.6341	0.0000	17800	20000	-11.0	20.0
1-Methylnaphthalene	Ave	0.6907	0.6481	0.0000	18800	20000	-6.2	20.0
Acenaphthylene	Ave	1.695	1.822	0.0000	21500	20000	7.5	20.0
Acenaphthene	Ave	1.021	1.062	0.0000	20800	20000	4.0	20.0
Fluorene	Ave	1.300	1.320	0.0000	20300	20000	1.5	20.0
Phenanthrene	Qua	1.293	1.092	0.0000	18700	20000	-6.5	20.0
Anthracene	Ave	1.161	1.178	0.0000	20300	20000	1.4	20.0
Carbazole	Ave	1.082	1.063	0.0000	19700	20000	-1.7	20.0
Fluoranthene	Ave	1.298	1.294	0.0000	19900	20000	-0.3	20.0
Pyrene	Ave	1.138	1.103	0.0000	19400	20000	-3.1	20.0
Benzo[a]anthracene	LinF	1.279	1.070	0.0000	18900	20000	-5.4	20.0
Chrysene	Ave	1.119	1.094	0.0000	19600	20000	-2.2	20.0
Benzo[b]fluoranthene	Ave	1.010	0.9897	0.0000	19600	20000	-2.0	20.0
Benzo[k]fluoranthene	Ave	1.143	1.195	0.0000	20900	20000	4.5	20.0
Benzo[a]pyrene	Ave	1.044	1.035	0.0000	19800	20000	-0.9	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.9567	0.0000	19100	20000	-4.6	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9337	0.0000	18700	20000	-6.6	20.0
Benzo[g,h,i]perylene	Ave	0.9789	1.008	0.0000	20600	20000	2.9	20.0
o-Terphenyl	Lin	0.5859	0.5979	0.0000	18700	20000	-6.3	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 17-APR-2013 10:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m
Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.663	3.663	(1.000)	240478	40.0000	
*	6 Acenaphthene-d10	164	4.751	4.751	(1.000)	150375	40.0000	
*	10 Phenanthrene-d10	188	5.698	5.698	(1.000)	295718	40.0000	
$	14 o-Terphenyl	230	5.945	5.945	(1.043)	88400	20.0000	18.7416
*	18 Chrysene-d12	240	7.627	7.627	(1.000)	362821	40.0000	
*	23 Perylene-d12	264	8.780	8.780	(1.000)	379421	40.0000	
	2 Naphthalene	128	3.680	3.680	(1.005)	121937	20.0000	18.7581
	3 2-Methylnaphthalene	142	4.104	4.104	(1.120)	76239	20.0000	17.8090
	4 1-Methylnaphthalene	142	4.168	4.168	(1.138)	77930	20.0000	18.7680
	5 Acenaphthylene	152	4.663	4.663	(0.981)	136997	20.0000	21.5000
	7 Acenaphthene	154	4.774	4.774	(1.005)	79835	20.0000	20.7903
	9 Fluorene	166	5.092	5.092	(1.072)	99238	20.0000	20.3078
	11 Phenanthrene	178	5.709	5.709	(1.002)	161496	20.0000	18.6969
	12 Anthracene	178	5.745	5.745	(1.008)	174149	20.0000	20.2852
	13 Carbazole	167	5.851	5.851	(1.027)	157140	20.0000	19.6531
	15 Fluoranthene	202	6.545	6.545	(1.149)	191339	20.0000	19.9453
	16 Pyrene	202	6.709	6.709	(0.880)	200123	20.0000	19.3882
	17 Benzo(a)anthracene	228	7.621	7.621	(0.999)	194081	20.0000	18.9165
	19 Chrysene	228	7.651	7.651	(1.003)	198442	20.0000	19.5517
	20 Benzo(b)fluoranthene	252	8.450	8.450	(0.962)	187748	20.0000	19.5913
	21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	226682	20.0000	20.9040
	22 Benzo(a)pyrene	252	8.733	8.733	(0.995)	196362	20.0000	19.8225
	24 Indeno(1,2,3-cd)pyrene	276	9.903	9.903	(1.128)	181496	20.0000	19.0813(M)
	25 Dibenzo(a,h)anthracene	278	9.915	9.915	(1.129)	177138	20.0000	18.6789
	26 Benzo(g,h,i)perylene	276	10.233	10.233	(1.165)	191169	20.0000	20.5891

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD17003.D

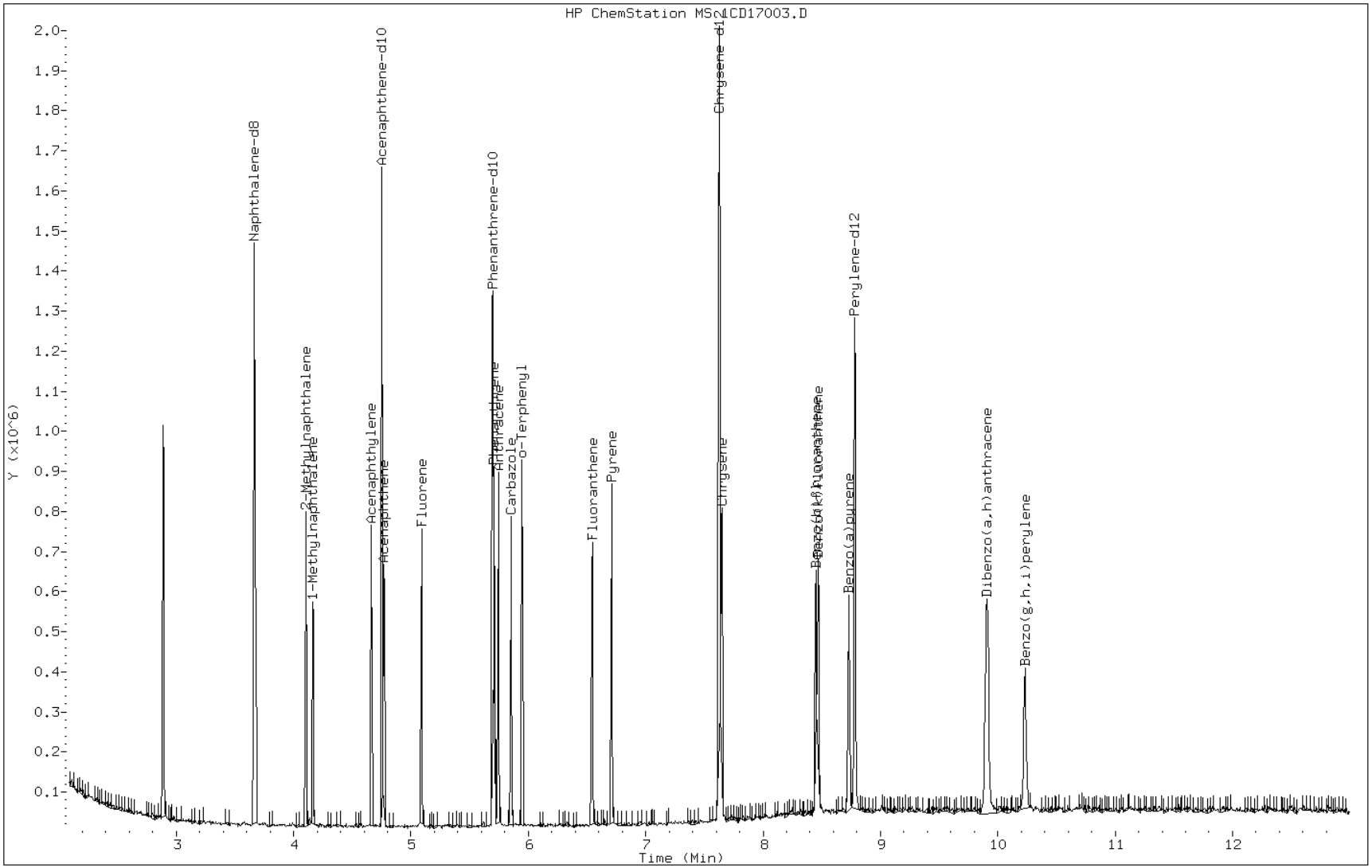
Date: 17-APR-2013 10:18

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC



Manual Integration Report

Data File: 1CD17003.D
Inj. Date and Time: 17-APR-2013 10:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/18/2013

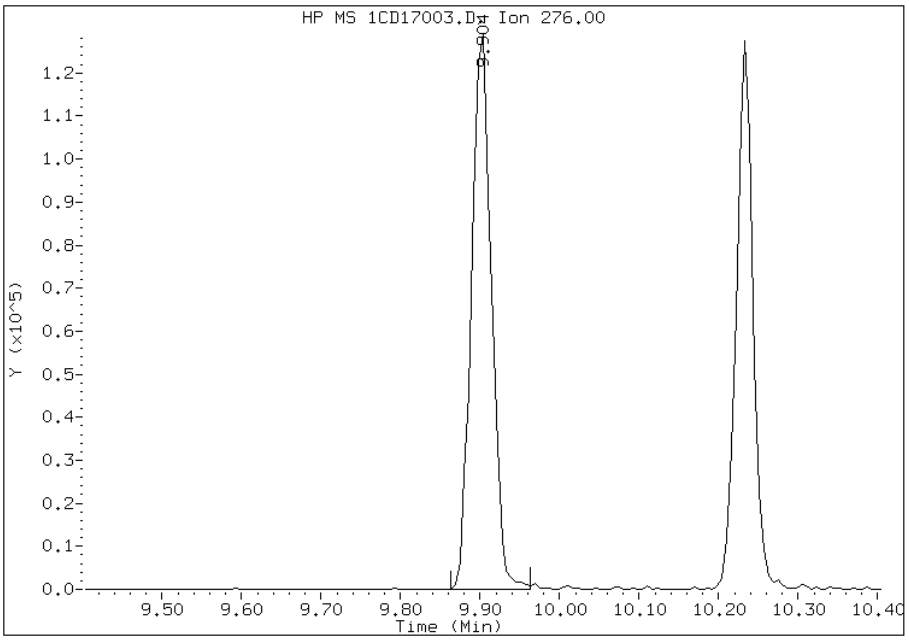
Processing Integration Results

RT: 9.90

Response: 223641

Amount: 23

Conc: 23



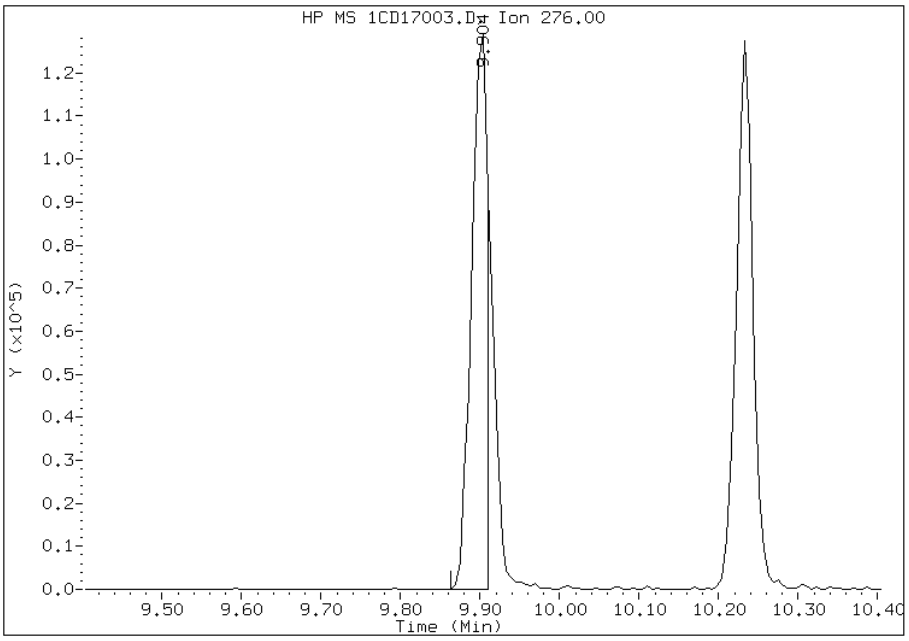
Manual Integration Results

RT: 9.90

Response: 181496

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 17-Apr-2013 10:33
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab Sample ID: CCVIS 660-136655/3 Calibration Date: 04/19/2013 11:24

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: 1CD19003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.069	0.0000	19800	20000	-1.1	20.0
2-Methylnaphthalene	Lin	0.6730	0.6717	0.0000	18800	20000	-5.8	20.0
1-Methylnaphthalene	Ave	0.6907	0.6224	0.0000	18000	20000	-9.9	20.0
Acenaphthylene	Ave	1.695	1.755	0.0000	20700	20000	3.5	20.0
Acenaphthene	Ave	1.021	1.005	0.0000	19700	20000	-1.6	20.0
Fluorene	Ave	1.300	1.334	0.0000	20500	20000	2.6	20.0
Phenanthrene	Qua	1.293	1.138	0.0000	19500	20000	-2.6	20.0
Anthracene	Ave	1.161	1.248	0.0000	21500	20000	7.5	20.0
Carbazole	Ave	1.082	1.004	0.0000	18600	20000	-7.1	20.0
Fluoranthene	Ave	1.298	1.258	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.138	1.062	0.0000	18700	20000	-6.7	20.0
Benzo[a]anthracene	LinF	1.279	1.069	0.0000	18900	20000	-5.5	20.0
Chrysene	Ave	1.119	1.051	0.0000	18800	20000	-6.1	20.0
Benzo[b]fluoranthene	Ave	1.010	0.9738	0.0000	19300	20000	-3.6	20.0
Benzo[k]fluoranthene	Ave	1.143	1.137	0.0000	19900	20000	-0.6	20.0
Benzo[a]pyrene	Ave	1.044	1.046	0.0000	20000	20000	0.1	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.8495	0.0000	17000	20000	-14.9	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9157	0.0000	18300	20000	-8.4	20.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9483	0.0000	19400	20000	-3.1	20.0
o-Terphenyl	Lin	0.5859	0.5853	0.0000	18400	20000	-8.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 19-APR-2013 11:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	3.657	3.657	(1.000)	187771	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	127904	40.0000	(H)
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	242114	40.0000	(H)
$	14 o-Terphenyl	230	5.933	5.933	(1.043)	70849	20.0000	18.3607(H)
*	18 Chrysene-d12	240	7.615	7.615	(1.000)	311596	40.0000	
*	23 Perylene-d12	264	8.768	8.768	(1.000)	321703	40.0000	(H)
	2 Naphthalene	128	3.669	3.669	(1.003)	100389	20.0000	19.7781
	3 2-Methylnaphthalene	142	4.092	4.092	(1.119)	63061	20.0000	18.8494
	4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	58434	20.0000	18.0229
	5 Acenaphthylene	152	4.657	4.657	(0.983)	112223	20.0000	20.7062
	7 Acenaphthene	154	4.763	4.763	(1.005)	64288	20.0000	19.6829
	9 Fluorene	166	5.080	5.080	(1.072)	85320	20.0000	20.5271(H)
	11 Phenanthrene	178	5.698	5.698	(1.002)	137719	20.0000	19.4791(H)
	12 Anthracene	178	5.733	5.733	(1.008)	151071	20.0000	21.4930(H)
	13 Carbazole	167	5.845	5.845	(1.028)	121573	20.0000	18.5712(H)
	15 Fluoranthene	202	6.533	6.533	(1.149)	152330	20.0000	19.3946(H)
	16 Pyrene	202	6.698	6.698	(0.880)	165409	20.0000	18.6595
	17 Benzo(a)anthracene	228	7.610	7.610	(0.999)	166545	20.0000	18.9012
	19 Chrysene	228	7.639	7.639	(1.003)	163694	20.0000	18.7795
	20 Benzo(b)fluoranthene	252	8.439	8.439	(0.962)	156644	20.0000	19.2783(H)
	21 Benzo(k)fluoranthene	252	8.457	8.457	(0.964)	182853	20.0000	19.8875(H)
	22 Benzo(a)pyrene	252	8.715	8.715	(0.994)	168183	20.0000	20.0239(H)
	24 Indeno(1,2,3-cd)pyrene	276	9.880	9.880	(1.127)	136650	20.0000	17.0156(MH)
	25 Dibenzo(a,h)anthracene	278	9.892	9.892	(1.128)	147283	20.0000	18.3258(H)
	26 Benzo(g,h,i)perylene	276	10.209	10.209	(1.164)	152540	20.0000	19.3762(H)

QC Flag Legend

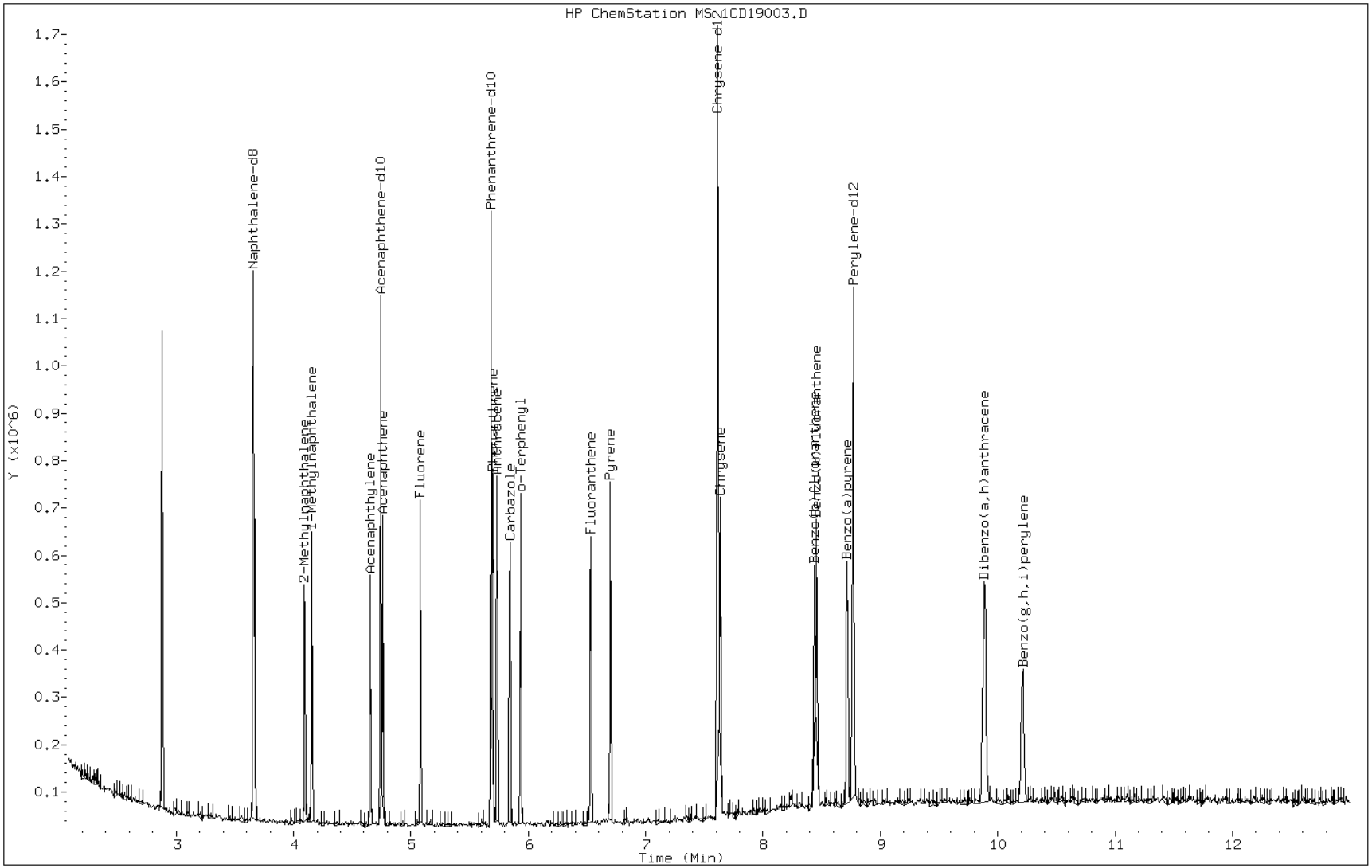
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD19003.D

Date: 19-APR-2013 11:24

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD19003.D
Inj. Date and Time: 19-APR-2013 11:24
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/19/2013

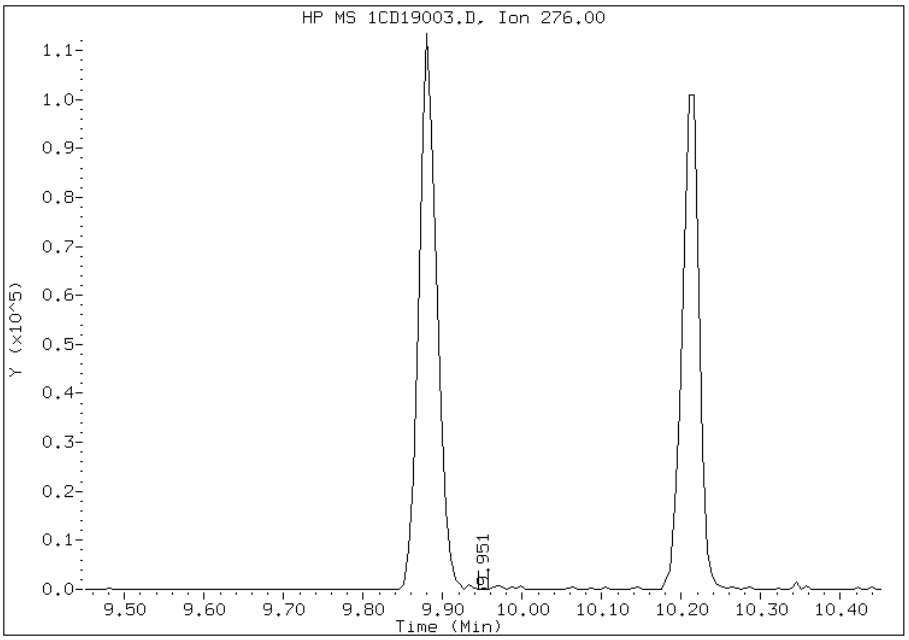
Processing Integration Results

RT: 9.95

Response: 122

Amount: 1

Conc: 1



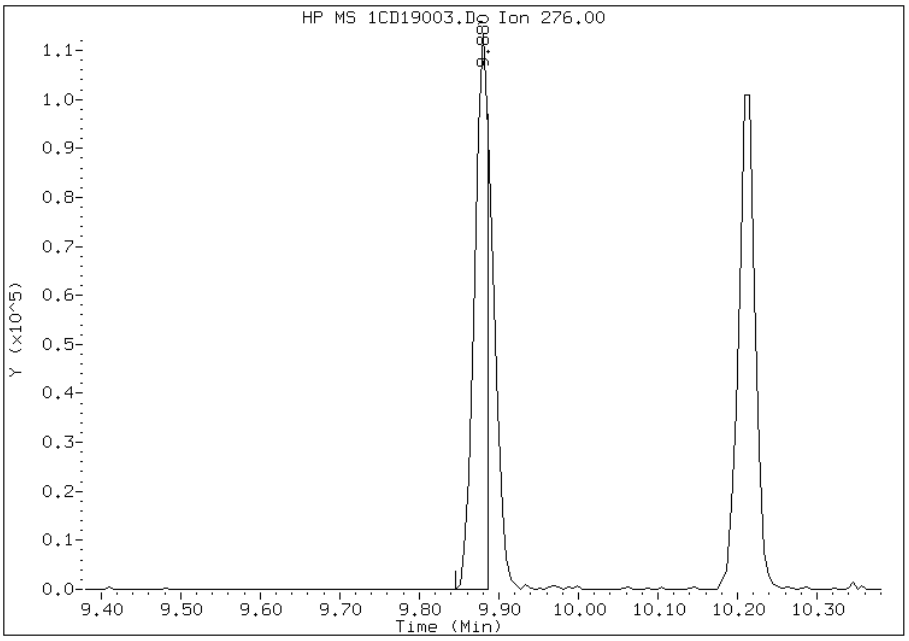
Manual Integration Results

RT: 9.88

Response: 136650

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 19-Apr-2013 11:44
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab Sample ID: CCVIS 660-136698/3 Calibration Date: 04/22/2013 11:50

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: 1CD22003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.007	0.0000	18600	20000	-6.9	20.0
2-Methylnaphthalene	Lin	0.6730	0.6342	0.0000	17800	20000	-10.9	20.0
1-Methylnaphthalene	Ave	0.6907	0.6422	0.0000	18600	20000	-7.0	20.0
Acenaphthylene	Ave	1.695	1.674	0.0000	19800	20000	-1.2	20.0
Acenaphthene	Ave	1.021	1.163	0.0000	22800	20000	13.9	20.0
Fluorene	Ave	1.300	1.393	0.0000	21400	20000	7.2	20.0
Phenanthrene	Qua	1.293	1.146	0.0000	19600	20000	-1.9	20.0
Anthracene	Ave	1.161	1.220	0.0000	21000	20000	5.1	20.0
Carbazole	Ave	1.082	1.078	0.0000	19900	20000	-0.3	20.0
Fluoranthene	Ave	1.298	1.216	0.0000	18700	20000	-6.3	20.0
Pyrene	Ave	1.138	1.108	0.0000	19500	20000	-2.6	20.0
Benzo[a]anthracene	LinF	1.279	1.135	0.0000	20100	20000	0.4	20.0
Chrysene	Ave	1.119	1.052	0.0000	18800	20000	-6.0	20.0
Benzo[b]fluoranthene	Ave	1.010	1.133	0.0000	22400	20000	12.1	20.0
Benzo[k]fluoranthene	Ave	1.143	1.026	0.0000	17900	20000	-10.3	20.0
Benzo[a]pyrene	Ave	1.044	1.083	0.0000	20700	20000	3.7	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.9053	0.0000	18100	20000	-9.6	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9399	0.0000	18800	20000	-6.0	20.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9293	0.0000	19000	20000	-5.1	20.0
o-Terphenyl	Lin	0.5859	0.5783	0.0000	18200	20000	-9.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 22-APR-2013 11:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1	Naphthalene-d8	136	3.651	3.651	(1.000)	177233	40.0000	(H)
* 6	Acenaphthene-d10	164	4.739	4.739	(1.000)	115325	40.0000	
* 10	Phenanthrene-d10	188	5.680	5.680	(1.000)	215585	40.0000	(H)
$ 14	o-Terphenyl	230	5.933	5.933	(1.045)	62335	20.0000	18.1504
* 18	Chrysene-d12	240	7.615	7.615	(1.000)	268224	40.0000	(H)
* 23	Perylene-d12	264	8.762	8.762	(1.000)	275000	40.0000	(H)
2	Naphthalene	128	3.663	3.663	(1.003)	89200	20.0000	18.6186
3	2-Methylnaphthalene	142	4.092	4.092	(1.121)	56201	20.0000	17.8129(H)
4	1-Methylnaphthalene	142	4.151	4.151	(1.137)	56906	20.0000	18.5953(H)
5	Acenaphthylene	152	4.651	4.651	(0.981)	96546	20.0000	19.7566
7	Acenaphthene	154	4.757	4.757	(1.004)	67059	20.0000	22.7707
9	Fluorene	166	5.080	5.080	(1.072)	80335	20.0000	21.4359
11	Phenanthrene	178	5.698	5.698	(1.003)	123552	20.0000	19.6267(H)
12	Anthracene	178	5.733	5.733	(1.009)	131526	20.0000	21.0150(H)
13	Carbazole	167	5.839	5.839	(1.028)	116223	20.0000	19.9387(H)
15	Fluoranthene	202	6.527	6.527	(1.149)	131029	20.0000	18.7354(H)
16	Pyrene	202	6.692	6.692	(0.879)	148578	20.0000	19.4711(H)
17	Benzo(a)anthracene	228	7.603	7.603	(0.998)	152236	20.0000	20.0710(H)
19	Chrysene	228	7.633	7.633	(1.002)	141105	20.0000	18.8057
20	Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	155786	20.0000	22.4288(H)
21	Benzo(k)fluoranthene	252	8.456	8.456	(0.965)	141020	20.0000	17.9425(H)
22	Benzo(a)pyrene	252	8.709	8.709	(0.994)	148881	20.0000	20.7361(H)
24	Indeno(1,2,3-cd)pyrene	276	9.874	9.874	(1.127)	124473	20.0000	18.0896(MH)
25	Dibenzo(a,h)anthracene	278	9.886	9.886	(1.128)	129235	20.0000	18.7992(H)
26	Benzo(g,h,i)perylene	276	10.209	10.209	(1.165)	127780	20.0000	18.9876(H)

QC Flag Legend

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

Data File: 1CD22003.D

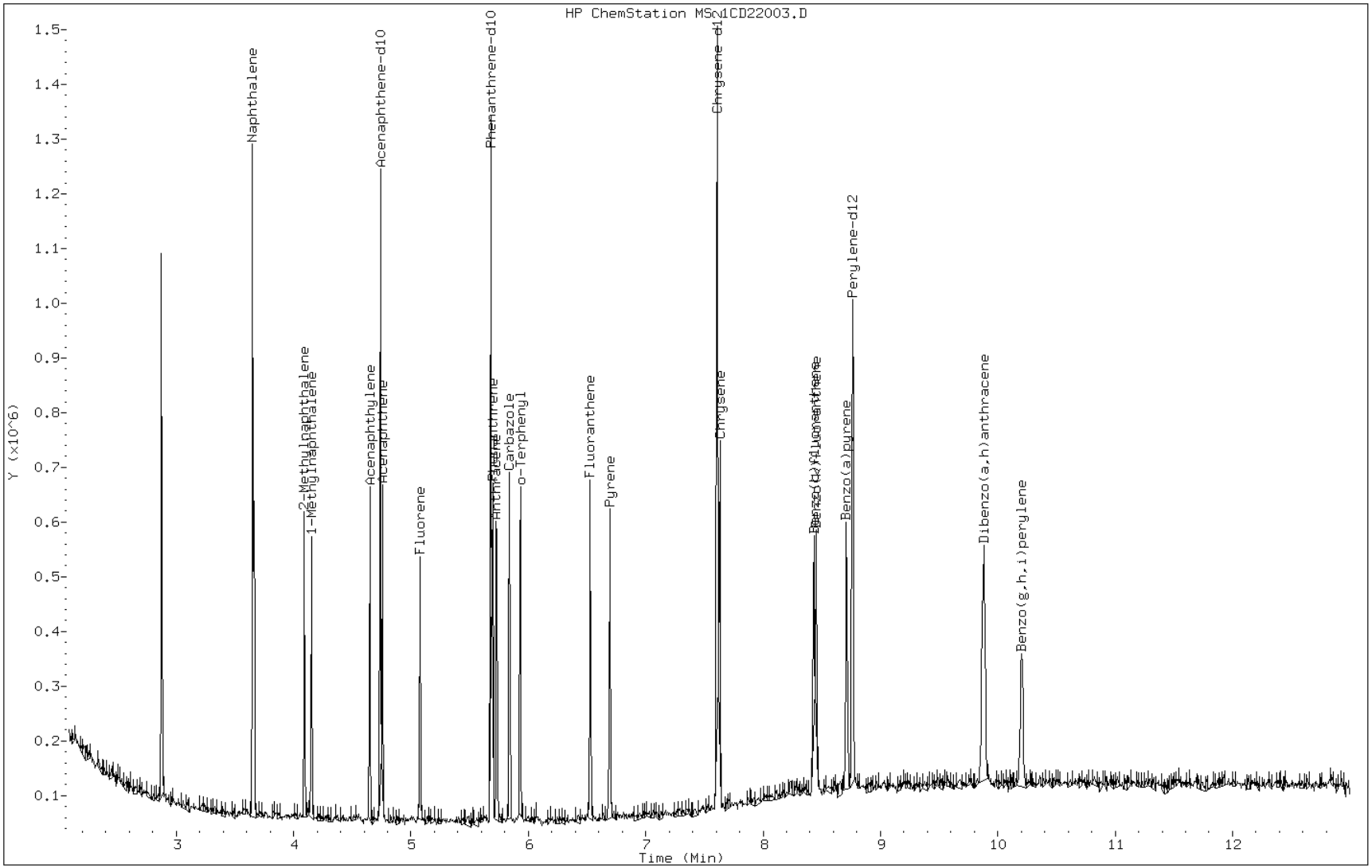
Date: 22-APR-2013 11:50

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC



Manual Integration Report

Data File: 1CD22003.D
Inj. Date and Time: 22-APR-2013 11:50
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

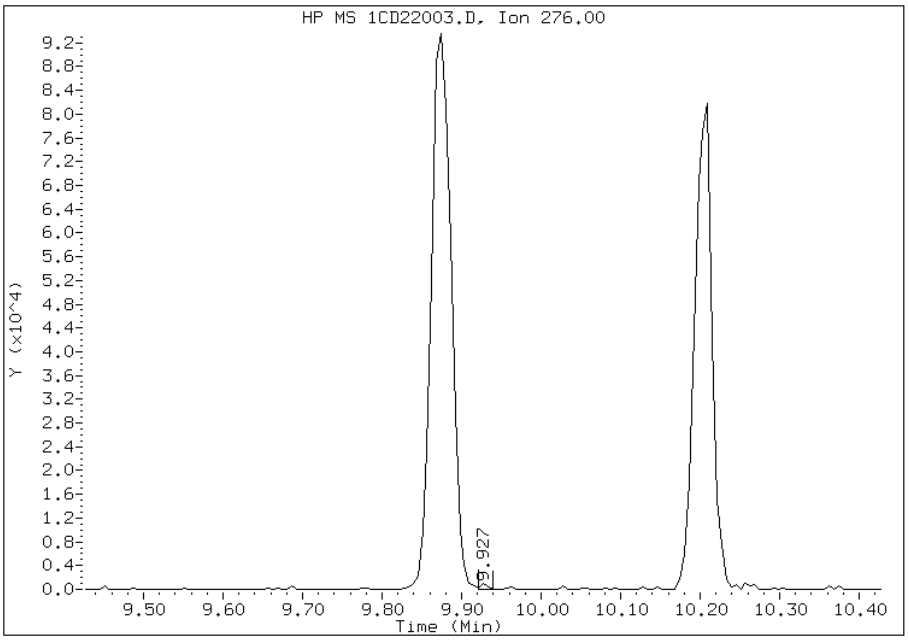
Processing Integration Results

RT: 9.93

Response: 617

Amount: 1

Conc: 1



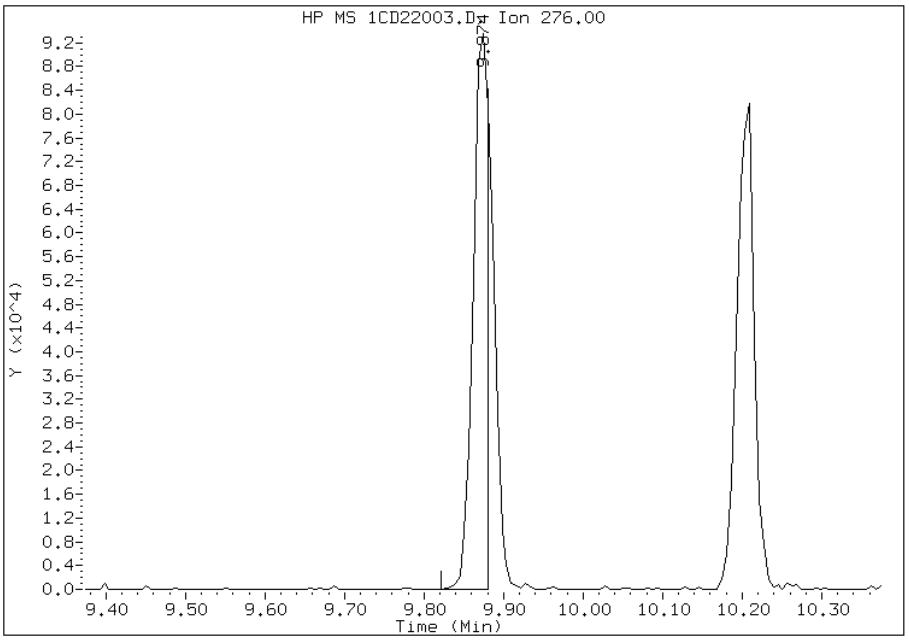
Manual Integration Results

RT: 9.87

Response: 124473

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:08
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab Sample ID: ICV 660-136164/22 Calibration Date: 04/04/2013 16:27

Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/04/2013 16:04

Lab File ID: 1DD04014.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9009	0.0000	18100	20000	-9.4	35.0
2-Methylnaphthalene	Ave	0.6418	0.5957	0.0000	18600	20000	-7.2	35.0
1-Methylnaphthalene	Ave	0.6061	0.5697	0.0000	18800	20000	-6.0	35.0
Acenaphthylene	Ave	1.693	1.431	0.0000	16900	20000	-15.5	35.0
Acenaphthene	Ave	1.045	0.8522	0.0000	16300	20000	-18.5	35.0
Fluorene	Ave	1.238	1.099	0.0000	17800	20000	-11.2	35.0
Phenanthrene	Ave	1.102	0.8997	0.0000	16300	20000	-18.3	35.0
Anthracene	Ave	1.094	0.9197	0.0000	16800	20000	-15.9	35.0
Carbazole	Ave	0.9646	0.6860	0.0000	14200	20000	-28.9	35.0
Fluoranthene	Ave	1.134	0.9937	0.0000	17500	20000	-12.4	35.0
Pyrene	Ave	1.201	0.9577	0.0000	15900	20000	-20.3	35.0
Benzo[a]anthracene	Ave	1.156	0.9847	0.0000	17000	20000	-14.9	35.0
Chrysene	Ave	1.084	0.8727	0.0000	16100	20000	-19.5	35.0
Benzo[b]fluoranthene	Ave	0.999	0.8893	0.0000	17800	20000	-11.0	35.0
Benzo[k]fluoranthene	Ave	1.053	0.8752	0.0000	16600	20000	-16.9	35.0
Benzo[a]pyrene	Ave	1.004	0.7657	0.0000	15300	20000	-23.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	0.8560	0.0000	16000	20000	-20.0	35.0
Dibenz(a,h)anthracene	Ave	1.008	0.9464	0.0000	18800	20000	-6.1	35.0
Benzo[g,h,i]perylene	Ave	1.031	0.8761	0.0000	17000	20000	-15.0	35.0
o-Terphenyl	Ave	0.6027	0.4989	0.0000	16600	20000	-17.2	35.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04014.D
Lab Smp Id: ICV-1448440
Inj Date : 04-APR-2013 16:27
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 13:07 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Naphthalene-d8	136	6.096	6.090	(1.000)	3619899	40.0000	
*	6 Acenaphthene-d10	164	7.771	7.770	(1.000)	2333423	40.0000	
*	9 Phenanthrene-d10	188	9.028	9.028	(1.000)	3845474	40.0000	
$	13 o-Terphenyl	230	9.334	9.339	(1.034)	959307	16.5566	16
*	17 Chrysene-d12	240	11.349	11.349	(1.000)	3963674	40.0000	
*	22 Perylene-d12	264	13.182	13.176	(1.000)	3958481	40.0000	
	2 Naphthalene	128	6.114	6.114	(1.003)	1630598	18.1229	18
	3 2-Methylnaphthalene	142	6.819	6.819	(1.119)	1078163	18.5630	18
	4 1-Methylnaphthalene	142	6.913	6.913	(1.134)	1031118	18.7992	19
	5 Acenaphthylene	152	7.642	7.641	(0.983)	1669244	16.9019	17
	7 Acenaphthene	154	7.800	7.800	(1.004)	994282	16.3100	16
	8 Fluorene	166	8.241	8.240	(1.060)	1281905	17.7572	18
	10 Phenanthrene	178	9.046	9.051	(1.002)	1729949	16.3322	16
	11 Anthracene	178	9.087	9.092	(1.007)	1768381	16.8207	17
	12 Carbazole	167	9.228	9.233	(1.022)	1319041	14.2242	14(M)
	14 Fluoranthene	202	10.027	10.032	(1.111)	1910613	17.5287	18
	15 Pyrene	202	10.215	10.220	(0.900)	1898084	15.9464	16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	1951469	17.0289	17
18 Chrysene	228	11.372	11.378	(1.002)	1729613	16.0966	16
19 Benzo(b)fluoranthene	252	12.630	12.635	(0.958)	1760131	17.8000	18
20 Benzo(k)fluoranthene	252	12.671	12.682	(0.961)	1732123	16.6271	17
21 Benzo(a)pyrene	252	13.076	13.094	(0.992)	1515587	15.2542	15
23 Indeno(1,2,3-cd)pyrene	276	14.763	14.786	(1.120)	1694283	15.9925	16(M)
24 Dibenzo(a,h)anthracene	278	14.798	14.827	(1.123)	1873209	18.7764	19
25 Benzo(g,h,i)perylene	276	15.215	15.238	(1.154)	1734029	16.9990	17(H)

QC Flag Legend

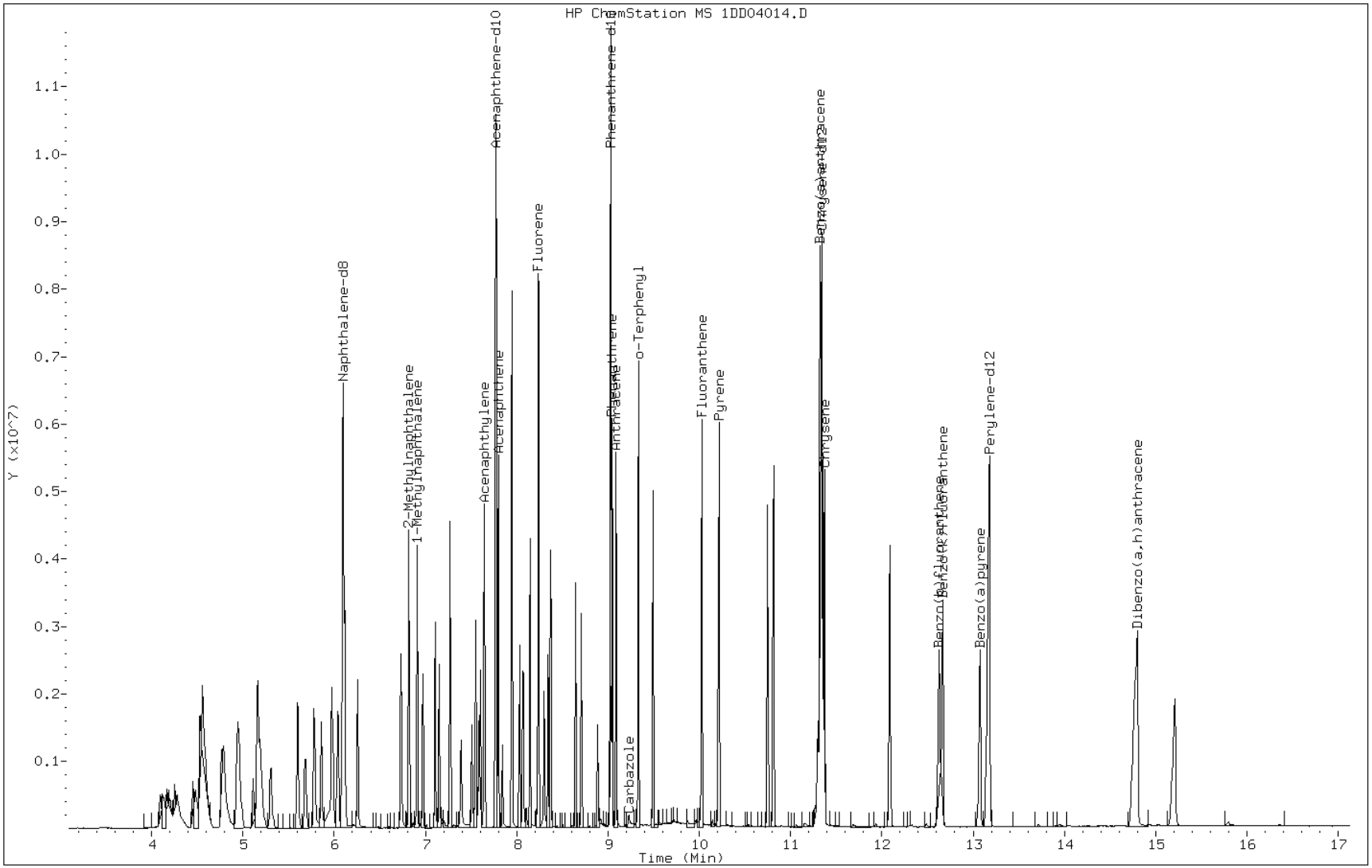
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD04014.D

Date: 04-APR-2013 16:27

Client ID: Instrument: BSMSD.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 04/05/2013

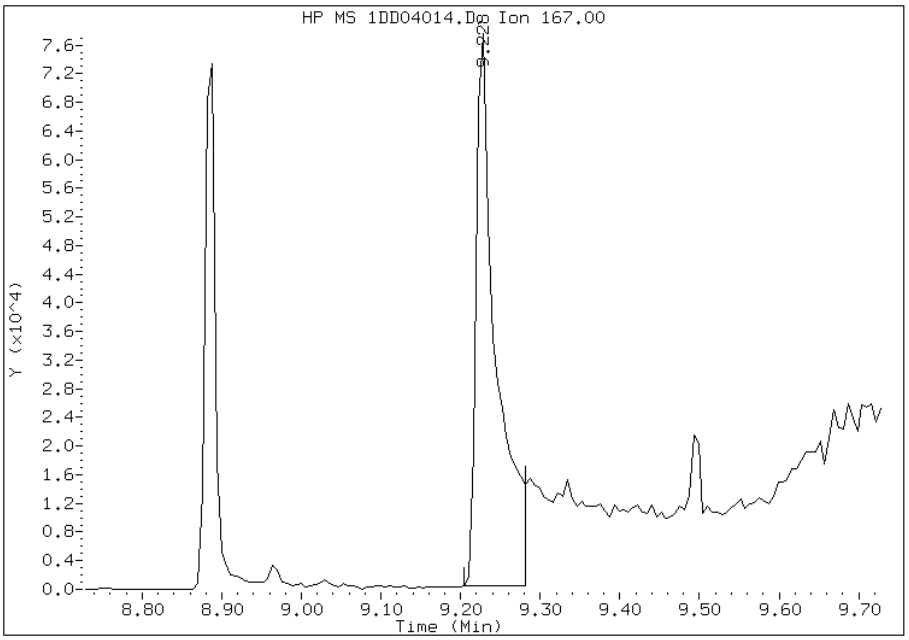
Processing Integration Results

RT: 9.23

Response: 136620

Amount: 1

Conc: 1



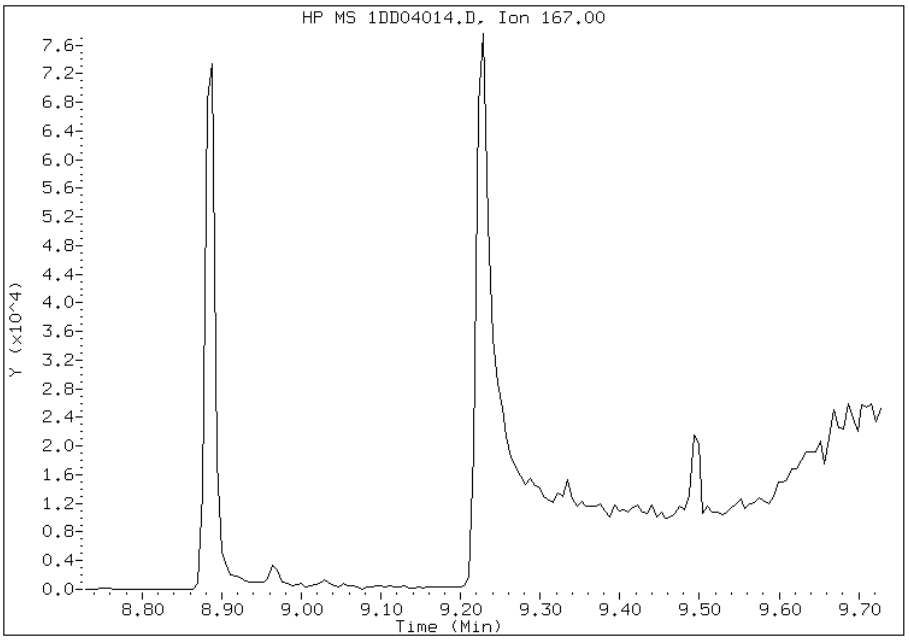
Manual Integration Results

RT: 9.23

Response: 1319041

Amount: 14

Conc: 14



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

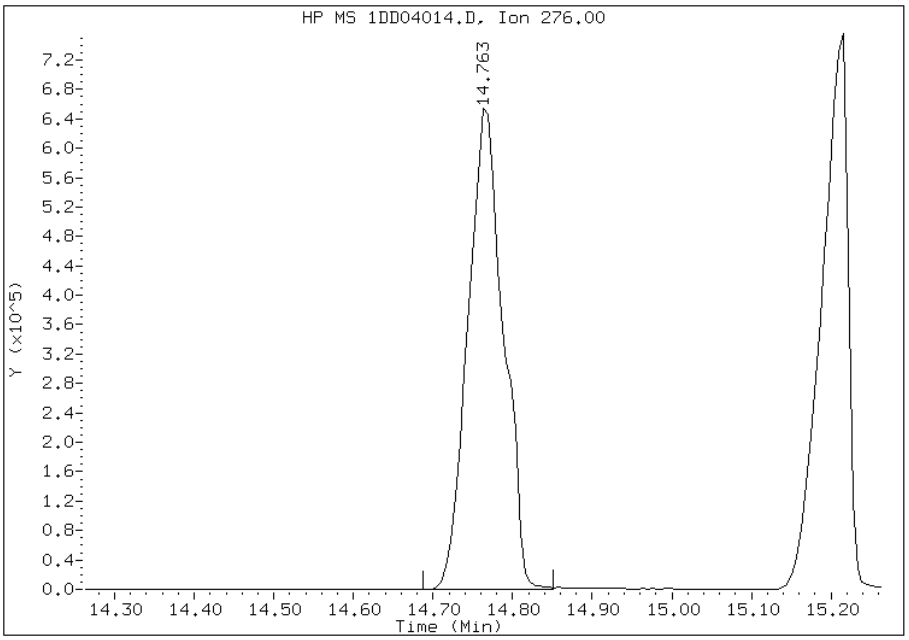
Processing Integration Results

RT: 14.76

Response: 2024721

Amount: 19

Conc: 19



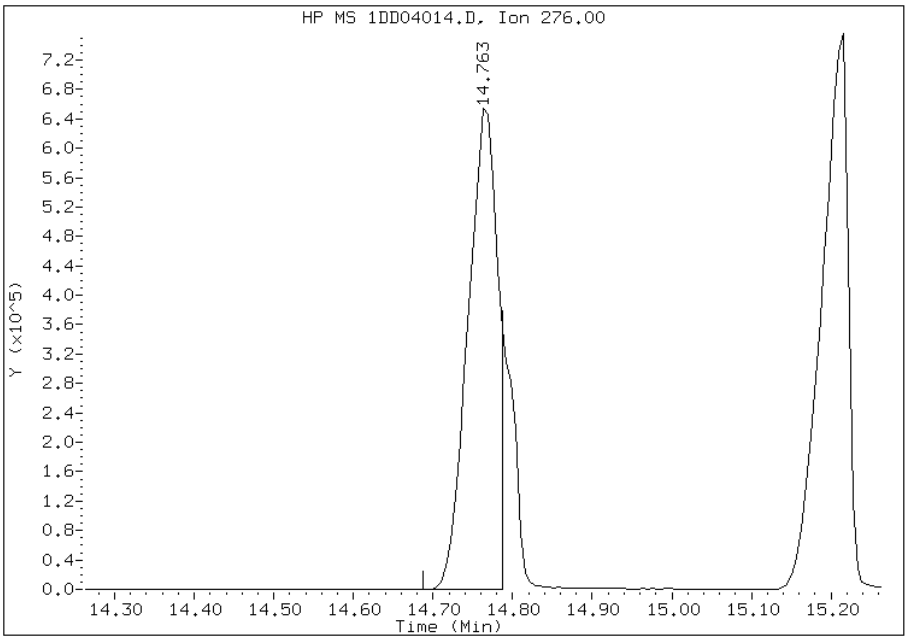
Manual Integration Results

RT: 14.76

Response: 1694283

Amount: 16

Conc: 16



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:09
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab Sample ID: CCVIS 660-136591/7 Calibration Date: 04/18/2013 14:03

Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/04/2013 16:04

Lab File ID: 1DD18006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9864	0.0000	19800	20000	-0.8	20.0
2-Methylnaphthalene	Ave	0.6418	0.6510	0.0000	20300	20000	1.4	20.0
1-Methylnaphthalene	Ave	0.6061	0.6423	0.0000	21200	20000	6.0	20.0
Acenaphthylene	Ave	1.693	1.686	0.0000	19900	20000	-0.4	20.0
Acenaphthene	Ave	1.045	1.036	0.0000	19800	20000	-0.9	20.0
Fluorene	Ave	1.238	1.214	0.0000	19600	20000	-1.9	20.0
Phenanthrene	Ave	1.102	1.069	0.0000	19400	20000	-3.0	20.0
Anthracene	Ave	1.094	1.076	0.0000	19700	20000	-1.6	20.0
Carbazole	Ave	0.9646	0.9106	0.0000	18900	20000	-5.6	20.0
Fluoranthene	Ave	1.134	1.186	0.0000	20900	20000	4.6	20.0
Pyrene	Ave	1.201	1.167	0.0000	19400	20000	-2.8	20.0
Benzo[a]anthracene	Ave	1.156	1.046	0.0000	18100	20000	-9.5	20.0
Chrysene	Ave	1.084	1.051	0.0000	19400	20000	-3.1	20.0
Benzo[b]fluoranthene	Ave	0.999	0.999	0.0000	20000	20000	-0.0	20.0
Benzo[k]fluoranthene	Ave	1.053	1.043	0.0000	19800	20000	-0.9	20.0
Benzo[a]pyrene	Ave	1.004	1.000	0.0000	19900	20000	-0.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.074	0.0000	20100	20000	0.3	20.0
Dibenz(a,h)anthracene	Ave	1.008	1.006	0.0000	20000	20000	-0.2	20.0
Benzo[g,h,i]perylene	Ave	1.031	1.017	0.0000	19700	20000	-1.3	20.0
o-Terphenyl	Ave	0.6027	0.6576	0.0000	21800	20000	9.1	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18006.D
Lab Smp Id: CCV-1531401
Inj Date : 18-APR-2013 14:03
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCV-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\dFASTPAHi.m
Meth Date : 18-Apr-2013 14:23 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE 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/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.062	6.062	(1.000)	2616608	40.0000	
*	6 Acenaphthene-d10	164	7.742	7.742	(1.000)	1662048	40.0000	(H)
*	9 Phenanthrene-d10	188	8.999	8.999	(1.000)	2746064	40.0000	
$	13 o-Terphenyl	230	9.311	9.311	(1.035)	902837	20.0000	22
*	17 Chrysene-d12	240	11.314	11.314	(1.000)	2986677	40.0000	
*	22 Perylene-d12	264	13.130	13.130	(1.000)	3037301	40.0000	(H)
	2 Naphthalene	128	6.085	6.085	(1.004)	1290501	20.0000	20
	3 2-Methylnaphthalene	142	6.790	6.790	(1.120)	851660	20.0000	20
	4 1-Methylnaphthalene	142	6.884	6.884	(1.136)	840345	20.0000	21
	5 Acenaphthylene	152	7.613	7.613	(0.983)	1401008	20.0000	20(H)
	7 Acenaphthene	154	7.766	7.766	(1.003)	860576	20.0000	20(H)
	8 Fluorene	166	8.212	8.212	(1.061)	1008817	20.0000	20(H)
	10 Phenanthrene	178	9.017	9.017	(1.002)	1467573	20.0000	19
	11 Anthracene	178	9.058	9.058	(1.007)	1477887	20.0000	20
	12 Carbazole	167	9.199	9.199	(1.022)	1250247	20.0000	19
	14 Fluoranthene	202	10.004	10.004	(1.112)	1627730	20.0000	21
	15 Pyrene	202	10.192	10.192	(0.901)	1743102	20.0000	19
	16 Benzo(a)anthracene	228	11.291	11.291	(0.998)	1562768	20.0000	18
	18 Chrysene	228	11.338	11.338	(1.002)	1569537	20.0000	19
	19 Benzo(b)fluoranthene	252	12.583	12.583	(0.958)	1516864	20.0000	20(H)
	20 Benzo(k)fluoranthene	252	12.625	12.625	(0.962)	1583637	20.0000	20(H)
	21 Benzo(a)pyrene	252	13.036	13.036	(0.993)	1519377	20.0000	20(H)
	23 Indeno(1,2,3-cd)pyrene	276	14.704	14.704	(1.120)	1630778	20.0000	20(MH)
	24 Dibenzo(a,h)anthracene	278	14.734	14.734	(1.122)	1527468	20.0000	20(H)
	25 Benzo(g,h,i)perylene	276	15.145	15.145	(1.153)	1545089	20.0000	20(H)

QC Flag Legend

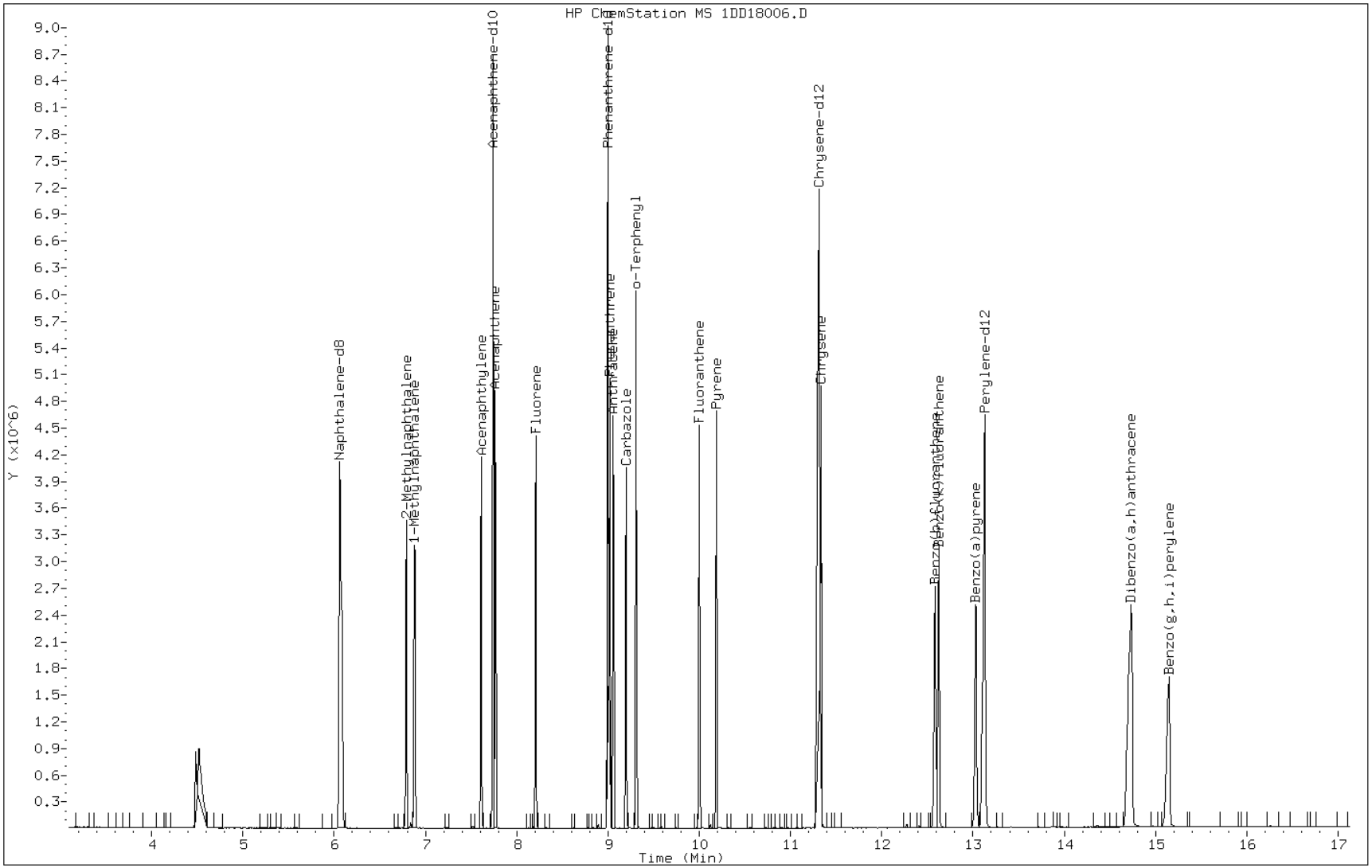
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD18006.D

Date: 18-APR-2013 14:03

Client ID: Instrument: BSMSD.i

Sample Info: CCV-1531401 Operator: SCC



Manual Integration Report

Data File: 1DD18006.D
Inj. Date and Time: 18-APR-2013 14:03
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/18/2013

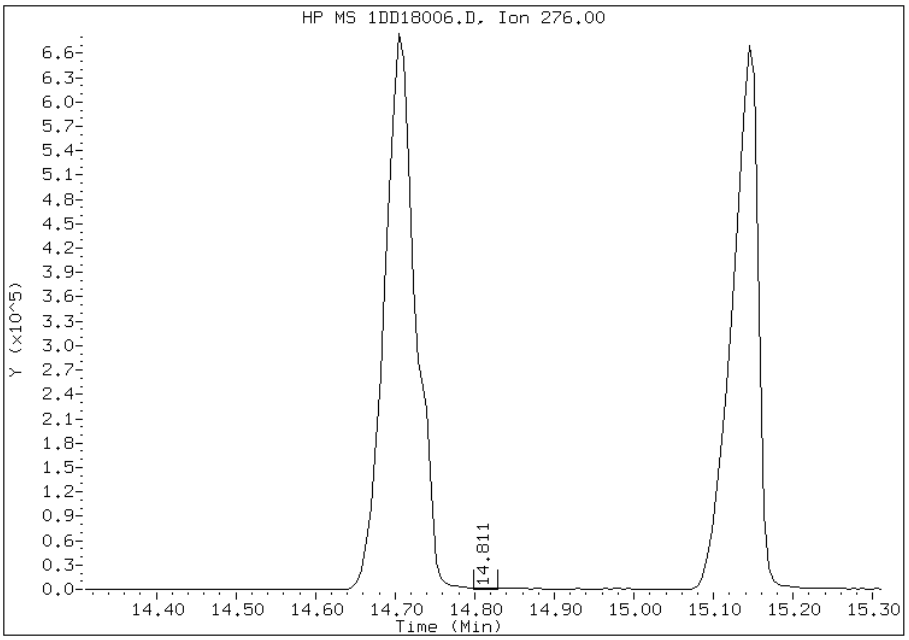
Processing Integration Results

RT: 14.81

Response: 1564

Amount: 0

Conc: 0



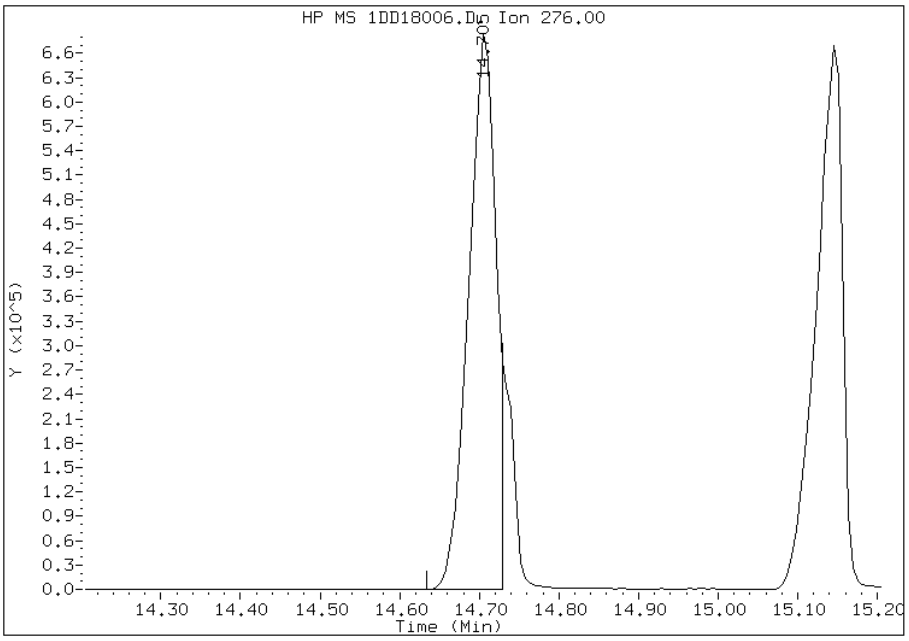
Manual Integration Results

RT: 14.70

Response: 1630778

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 18-Apr-2013 14:24
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Lab Sample ID: CCVIS 660-136733/3 Calibration Date: 04/22/2013 10:43

Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/04/2013 16:04

Lab File ID: 1DD22003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9705	0.0000	19500	20000	-2.4	20.0
2-Methylnaphthalene	Ave	0.6418	0.6424	0.0000	20000	20000	0.1	20.0
1-Methylnaphthalene	Ave	0.6061	0.6008	0.0000	19800	20000	-0.9	20.0
Acenaphthylene	Ave	1.693	1.723	0.0000	20400	20000	1.8	20.0
Acenaphthene	Ave	1.045	1.062	0.0000	20300	20000	1.6	20.0
Fluorene	Ave	1.238	1.243	0.0000	20100	20000	0.5	20.0
Phenanthrene	Ave	1.102	1.077	0.0000	19600	20000	-2.2	20.0
Anthracene	Ave	1.094	1.103	0.0000	20200	20000	0.9	20.0
Carbazole	Ave	0.9646	0.9675	0.0000	20100	20000	0.3	20.0
Fluoranthene	Ave	1.134	1.139	0.0000	20100	20000	0.5	20.0
Pyrene	Ave	1.201	1.204	0.0000	20000	20000	0.2	20.0
Benzo[a]anthracene	Ave	1.156	1.052	0.0000	18200	20000	-9.0	20.0
Chrysene	Ave	1.084	1.059	0.0000	19500	20000	-2.3	20.0
Benzo[b]fluoranthene	Ave	0.999	0.9937	0.0000	19900	20000	-0.6	20.0
Benzo[k]fluoranthene	Ave	1.053	1.039	0.0000	19700	20000	-1.3	20.0
Benzo[a]pyrene	Ave	1.004	1.016	0.0000	20200	20000	1.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.096	0.0000	20500	20000	2.4	20.0
Dibenz(a,h)anthracene	Ave	1.008	1.018	0.0000	20200	20000	1.0	20.0
Benzo[g,h,i]perylene	Ave	1.031	1.033	0.0000	20000	20000	0.2	20.0
o-Terphenyl	Ave	0.6027	0.6226	0.0000	20700	20000	3.3	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22003.D
Lab Smp Id: CCV-1531401
Inj Date : 22-APR-2013 10:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCV-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE 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/l)	ON-COL (ug/l)
*	1 Naphthalene-d8	136	6.054	6.054	(1.000)	1796455	40.0000	
*	6 Acenaphthene-d10	164	7.734	7.734	(1.000)	1037513	40.0000	
*	9 Phenanthrene-d10	188	8.998	8.998	(1.000)	1775352	40.0000	(H)
$	13 o-Terphenyl	230	9.309	9.309	(1.035)	552688	20.0000	21(H)
*	17 Chrysene-d12	240	11.307	11.307	(1.000)	1817611	40.0000	(H)
*	22 Perylene-d12	264	13.122	13.122	(1.000)	1852984	40.0000	(H)
	2 Naphthalene	128	6.077	6.077	(1.004)	871717	20.0000	20
	3 2-Methylnaphthalene	142	6.783	6.783	(1.120)	577049	20.0000	20
	4 1-Methylnaphthalene	142	6.877	6.877	(1.136)	539630	20.0000	20
	5 Acenaphthylene	152	7.611	7.611	(0.984)	893717	20.0000	20
	7 Acenaphthene	154	7.764	7.764	(1.004)	551018	20.0000	20
	8 Fluorene	166	8.204	8.204	(1.061)	644885	20.0000	20
	10 Phenanthrene	178	9.015	9.015	(1.002)	956353	20.0000	20(H)
	11 Anthracene	178	9.056	9.056	(1.007)	979308	20.0000	20(H)
	12 Carbazole	167	9.197	9.197	(1.022)	858844	20.0000	20(H)
	14 Fluoranthene	202	10.002	10.002	(1.112)	1011014	20.0000	20(H)
	15 Pyrene	202	10.184	10.184	(0.901)	1093873	20.0000	20(H)
	16 Benzo(a)anthracene	228	11.289	11.289	(0.998)	955977	20.0000	18(H)
	18 Chrysene	228	11.330	11.330	(1.002)	962817	20.0000	20(H)
	19 Benzo(b)fluoranthene	252	12.582	12.582	(0.959)	920620	20.0000	20(H)
	20 Benzo(k)fluoranthene	252	12.623	12.623	(0.962)	962751	20.0000	20(H)
	21 Benzo(a)pyrene	252	13.034	13.034	(0.993)	941426	20.0000	20(H)
	23 Indeno(1,2,3-cd)pyrene	276	14.709	14.709	(1.121)	1015743	20.0000	20(MH)
	24 Dibenzo(a,h)anthracene	278	14.732	14.732	(1.123)	942978	20.0000	20(H)
	25 Benzo(g,h,i)perylene	276	15.143	15.143	(1.154)	957388	20.0000	20(H)

QC Flag Legend

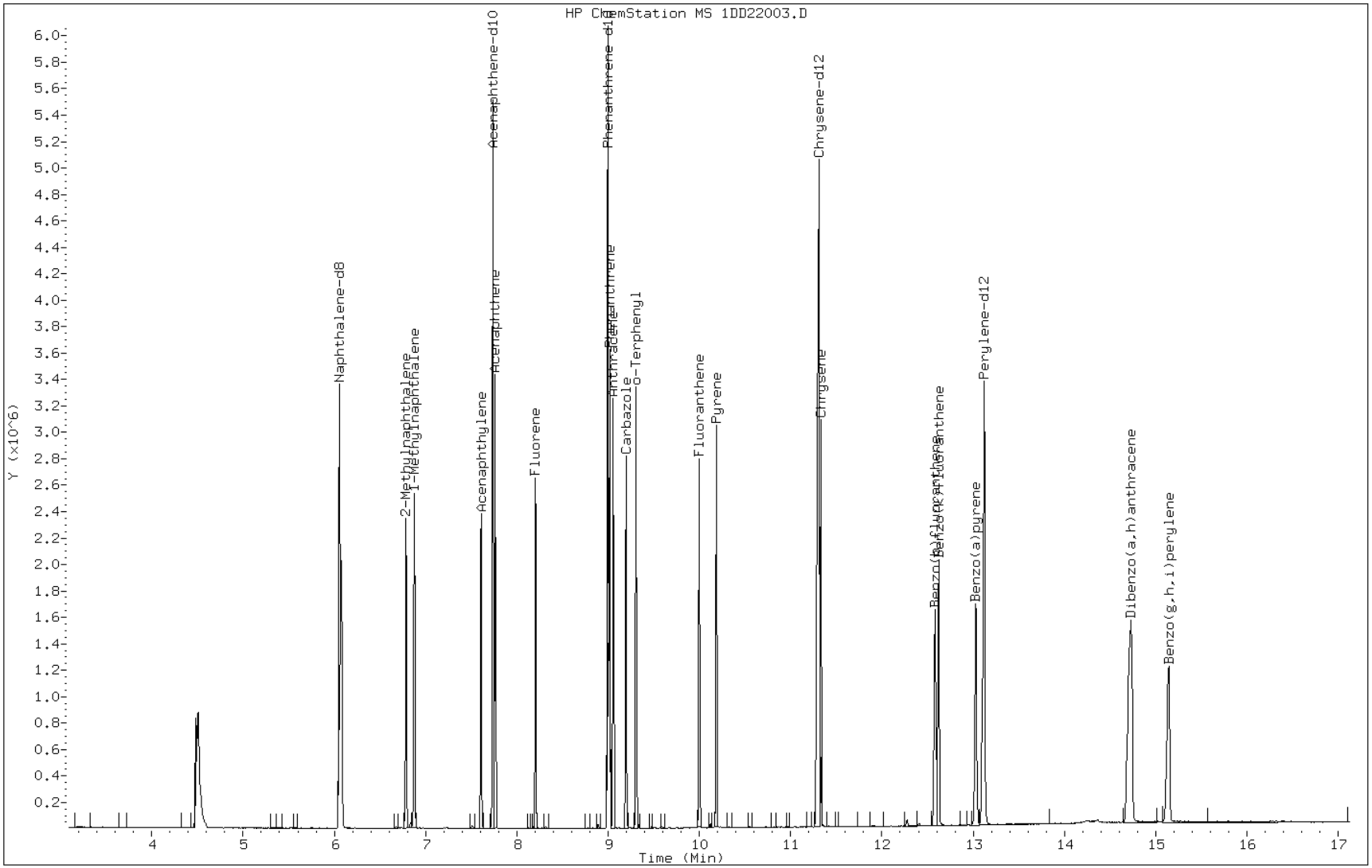
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD22003.D

Date: 22-APR-2013 10:43

Client ID: Instrument: BSMSD.i

Sample Info: CCV-1531401 Operator: SCC



Manual Integration Report

Data File: 1DD22003.D
Inj. Date and Time: 22-APR-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

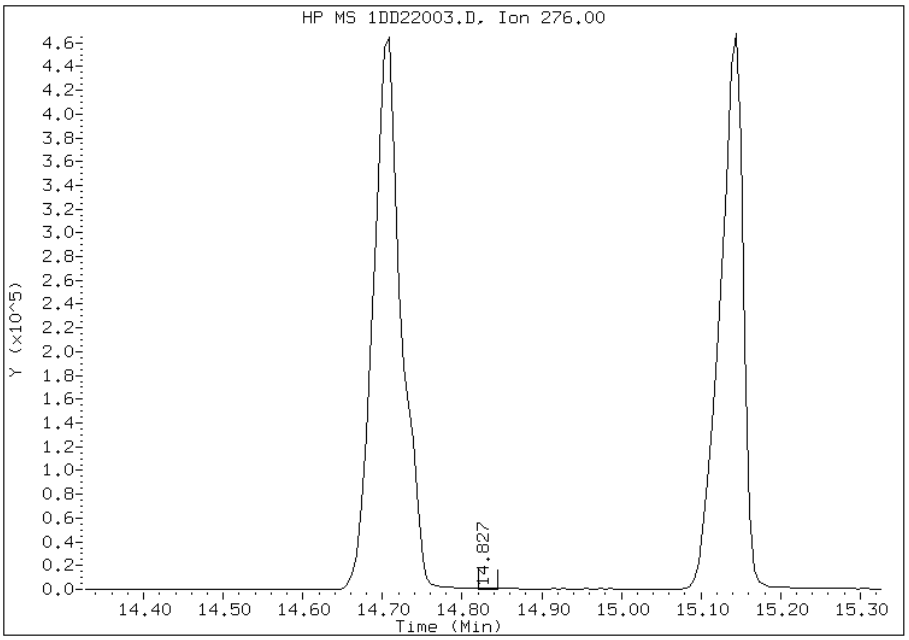
Processing Integration Results

RT: 14.83

Response: 538

Amount: 0

Conc: 0



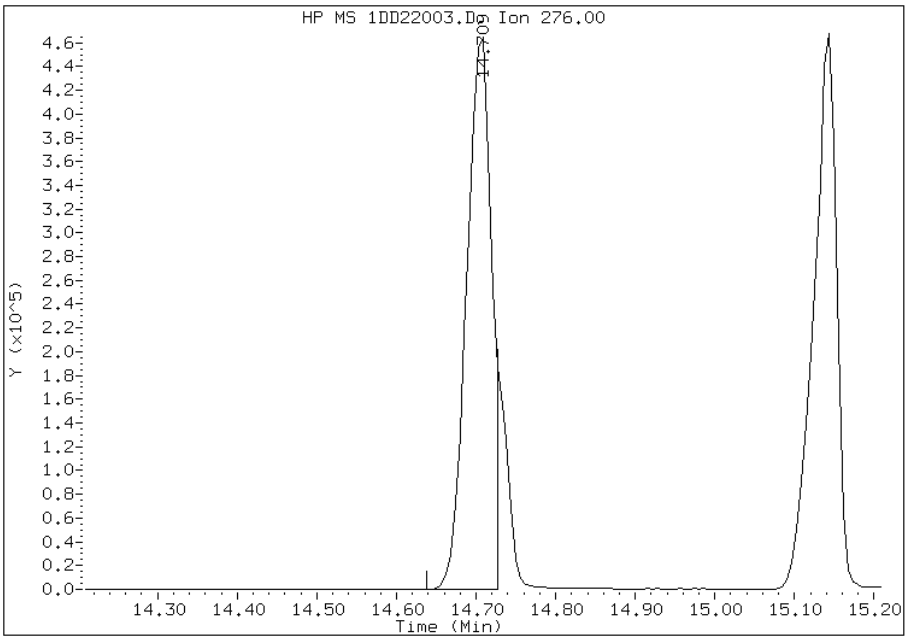
Manual Integration Results

RT: 14.71

Response: 1015743

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 11:05
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

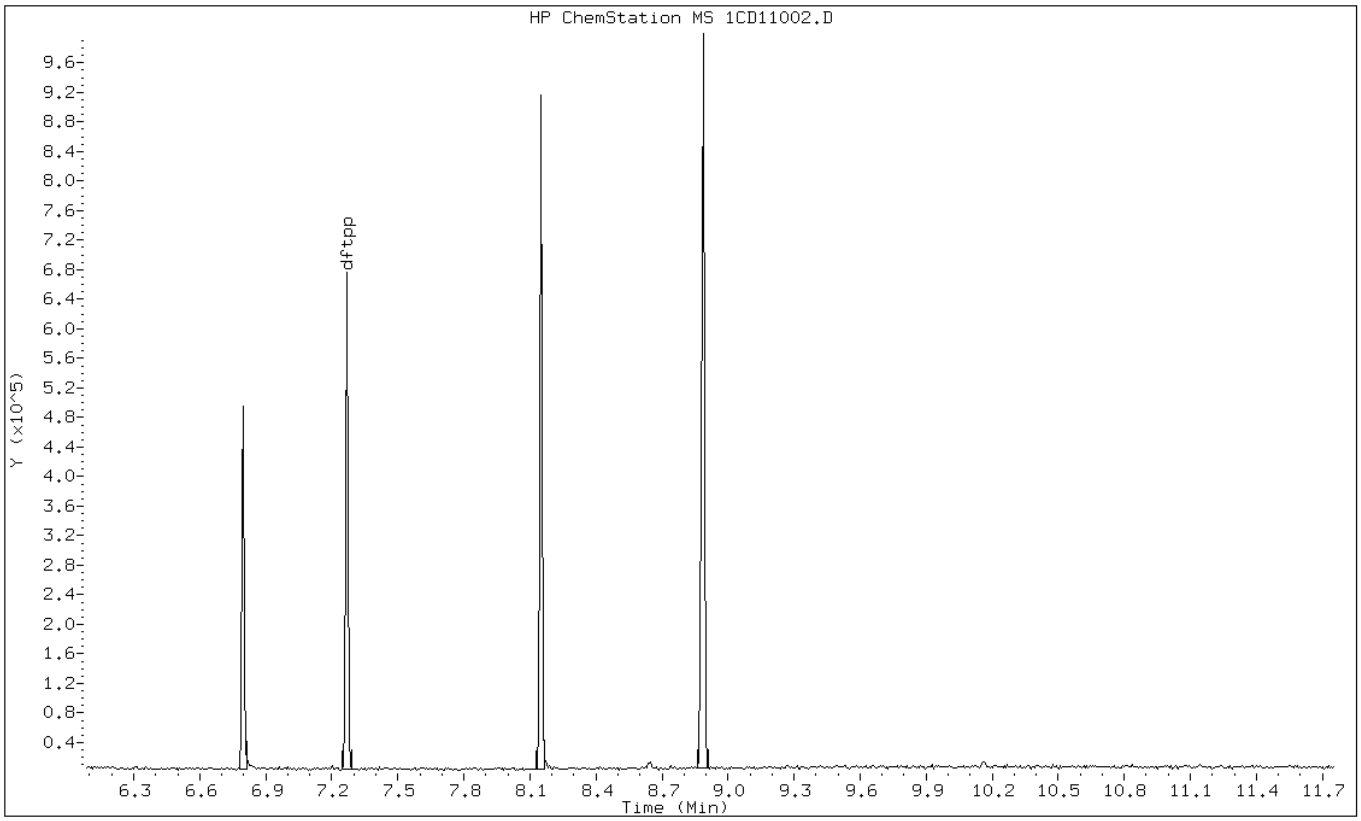
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.269	7.469	-0.200	198	54472			50.00- 0.00	100.00
7.269	7.469	-0.200	51	21074			10.00- 80.00	38.69
7.269	7.469	-0.200	68	353			0.00- 2.00	1.33
7.269	7.469	-0.200	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



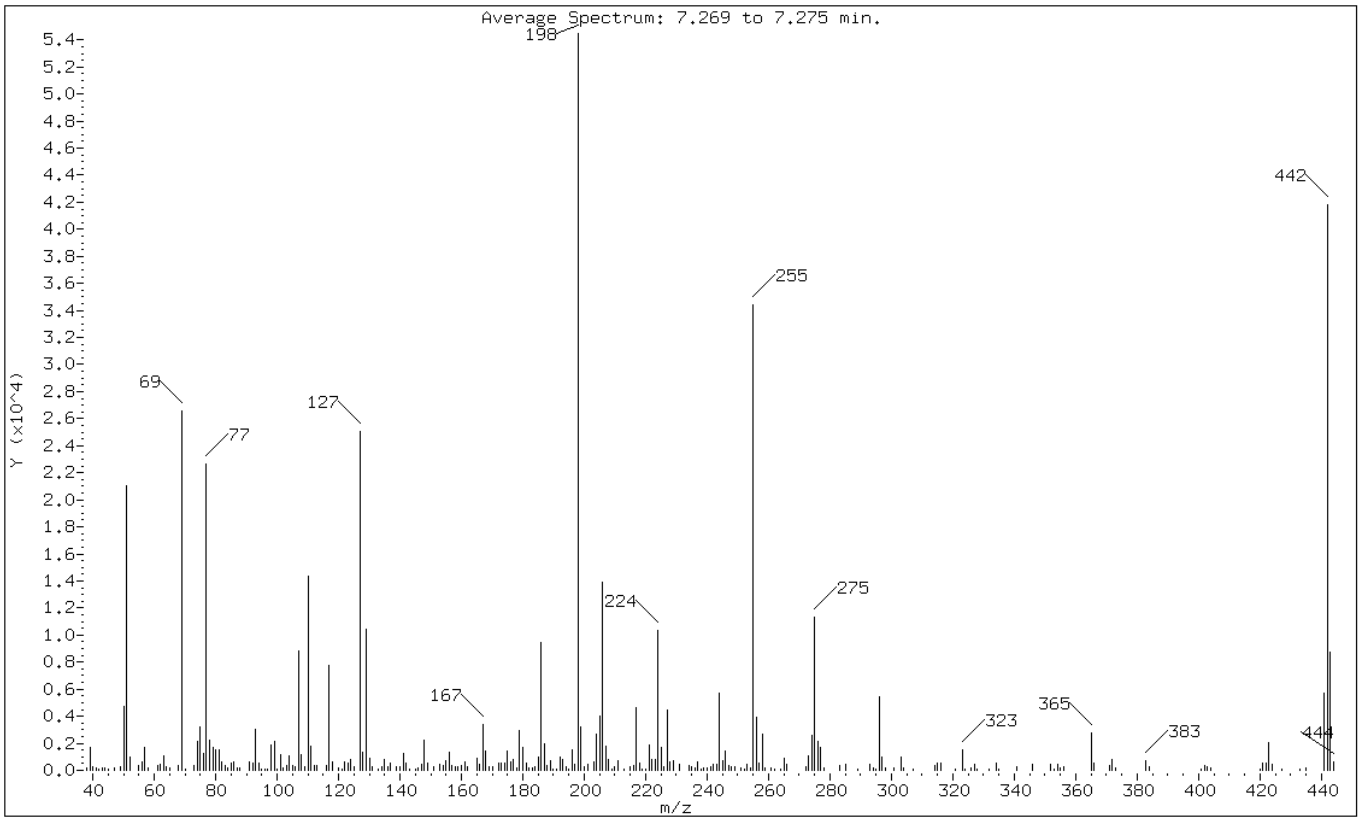
Data File: 1CD11002.D

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		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 17-APR-2013 10:01
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

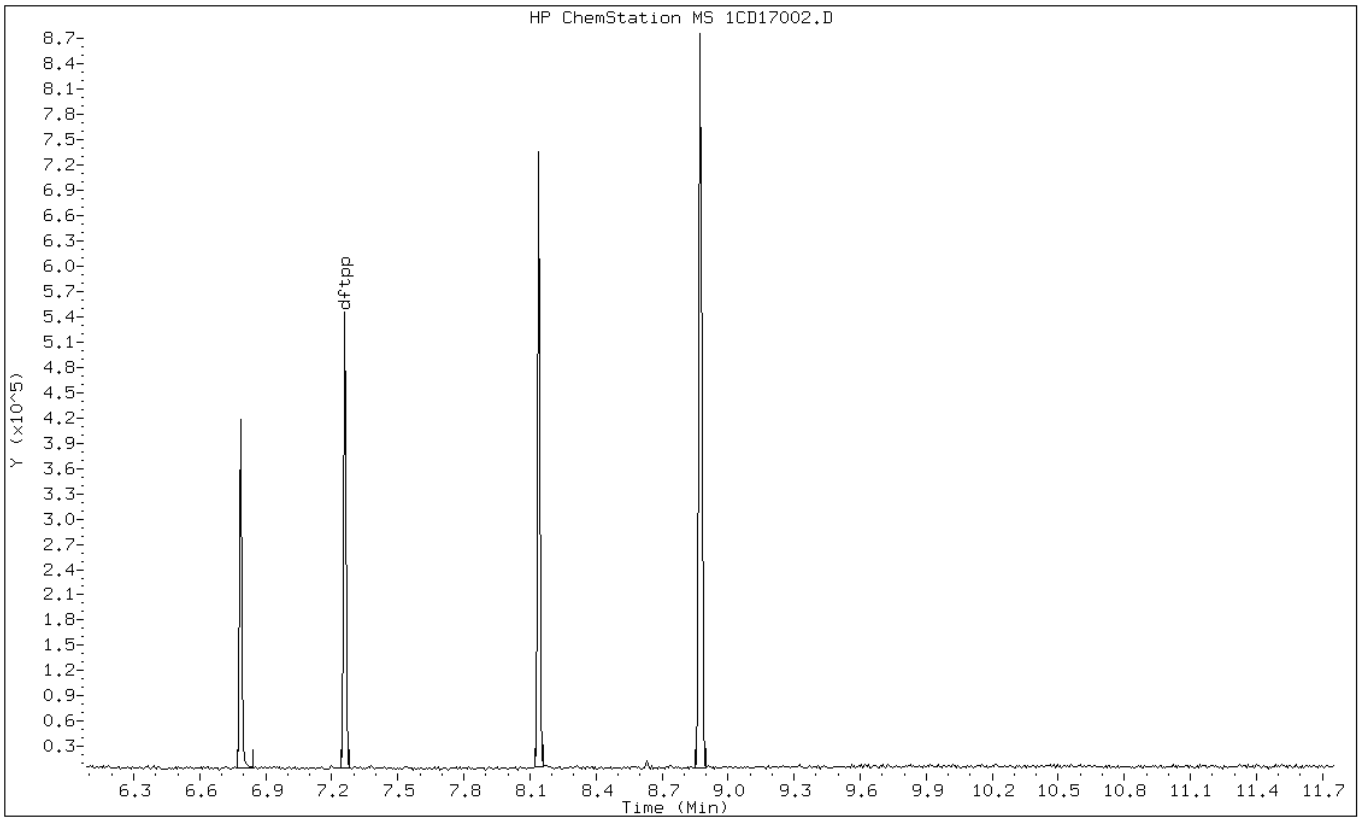
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.257	7.469	-0.212	198	52272			50.00- 0.00	100.00
7.257	7.469	-0.212	51	30464			10.00- 80.00	58.28
7.257	7.469	-0.212	68	672			0.00- 2.00	1.98
7.257	7.469	-0.212	69	33984			0.00- 0.00	65.01
7.257	7.469	-0.212	70	293			0.00- 2.00	0.86
7.257	7.469	-0.212	127	28952			10.00- 80.00	55.39
7.257	7.469	-0.212	197	0	0.0	0.0	0.00- 2.00	0.00
7.257	7.469	-0.212	442	27616			50.00- 0.00	52.83
7.257	7.469	-0.212	199	3531			5.00- 9.00	6.76
7.257	7.469	-0.212	275	12574			10.00- 60.00	24.05
7.257	7.469	-0.212	365	2188			1.00- 0.00	4.19
7.257	7.469	-0.212	441	3725			0.01- 99.99	57.44
7.257	7.469	-0.212	443	6485			15.00- 24.00	23.48

Data File: 1CD17002.D

Date: 17-APR-2013 10:01

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



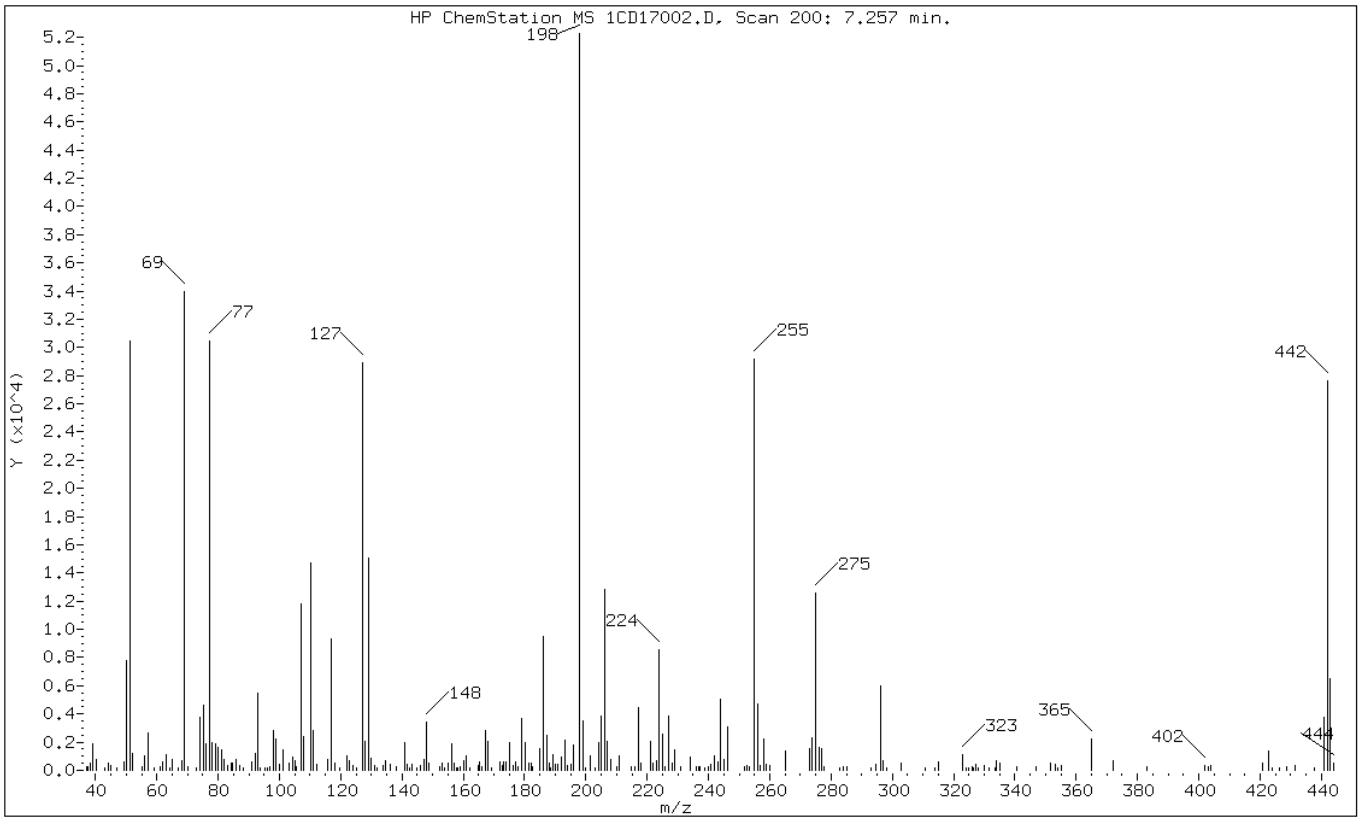
Data File: 1CD17002.D

Date: 17-APR-2013 10:01

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	58.28
68	Less than 2.00% of mass 69	1.29 (1.98)
69	Mass 69 relative abundance	65.01
70	Less than 2.00% of mass 69	0.56 (0.86)
127	10.00 - 80.00% of mass 198	55.39
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	52.83
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 60.00% of mass 198	24.05
365	Greater than 1.00% of mass 198	4.19
441	Present, but less than mass 443	7.13
443	15.00 - 24.00% of mass 442	12.41 (23.48)

Data File: 1CD17002.D

Date: 17-APR-2013 10:01

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17002.D
Spectrum: HP ChemStation MS 1CD17002.D, Scan 200: 7.257 min.
Location of Maximum: 198.00
Number of points: 234

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	258	110.10	14694	182.00	555	258.00	2252
37.50	230	111.00	2797	182.60	298	259.00	419
38.20	529	112.00	392	185.10	1550	259.90	348
39.10	1905	115.90	809	186.00	9504	265.10	1361
40.10	776	117.10	9367	187.10	2492	272.90	1517
42.90	180	118.10	484	188.00	547	273.90	2279
44.00	542	119.70	189	188.50	197	275.00	12574
45.00	314	122.20	1015	189.10	1095	276.10	1650
46.80	202	122.80	704	190.00	391	276.80	1502
49.10	571	124.00	348	190.80	464	277.70	247
50.10	7791	125.20	203	192.00	923	282.70	164
51.10	30464	127.00	28952	193.10	2120	284.00	252
52.10	1210	128.00	2071	194.00	356	285.10	246
55.20	286	129.10	15076	195.10	432	293.00	186
56.00	998	129.90	821	196.10	1827	294.70	421
57.00	2693	131.10	302	198.00	52272	296.00	5948
59.00	166	131.80	179	199.00	3531	296.90	689
61.00	265	134.00	319	199.80	205	298.00	176
61.90	618	134.70	680	201.40	1056	302.90	480
63.00	1093	136.00	397	203.00	166	310.70	163
64.20	204	138.10	235	204.10	2008	314.00	158
65.10	747	141.00	1983	205.10	3875	315.00	561
66.90	196	141.80	461	206.10	12873	322.90	1106
68.20	672	142.60	157	207.00	2027	324.10	175
69.00	33984	143.20	399	208.00	794	324.90	191
70.00	293	145.00	182	210.20	267	325.90	250
72.90	205	146.00	378	211.00	992	326.60	150
74.00	3737	147.00	790	214.90	286	327.10	450
75.10	4645	148.00	3430	215.80	246	327.90	196
76.10	1854	148.80	553	217.00	4456	329.90	313
77.10	30480	152.10	235	218.10	484	331.60	208
78.00	1964	153.00	485	221.00	2091	333.50	204
79.10	1887	154.00	162	221.70	555	334.00	687
79.90	1583	155.00	525	222.90	699	335.10	476
81.10	1462	156.10	1916	224.00	8568	340.80	271
82.00	760	157.00	523	225.00	2540	346.80	259
83.00	332	157.70	190	226.00	218	351.80	515
84.10	481	158.00	184	226.90	3872	353.10	430
84.80	502	158.90	288	228.10	522	353.80	199
86.00	755	160.00	695	228.90	1451	355.10	357

87.10	359	161.00	1047	231.10	222	365.00	2188
88.10	171	162.10	190	234.10	923	371.90	689
91.00	623	164.70	321	236.00	285	382.90	292
92.10	1238	165.10	600	236.70	287	402.00	311
93.00	5477	166.10	261	237.10	286	403.00	295
93.90	185	167.10	2816	238.70	165	403.90	306
95.10	177	168.10	2019	240.00	275	420.90	541
96.00	159	169.10	205	240.80	417	422.90	1393
96.80	262	172.00	617	241.80	1050	423.90	204
98.00	2840	172.70	319	243.20	601	426.50	168
99.00	2191	173.10	567	244.00	5006	428.70	224
99.90	386	174.10	618	245.10	735	431.40	320
101.00	1421	175.10	1930	246.10	3058	437.60	196
103.00	520	176.10	353	251.90	251	441.00	3725
104.20	940	177.00	588	252.70	339	442.00	27616
105.00	669	178.00	253	253.50	229	443.00	6485
105.70	264	179.00	3683	255.00	29192	444.00	544
107.10	11813	180.10	1925	256.00	4685		
108.00	2419	181.20	495	257.00	304		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 19-APR-2013 11:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

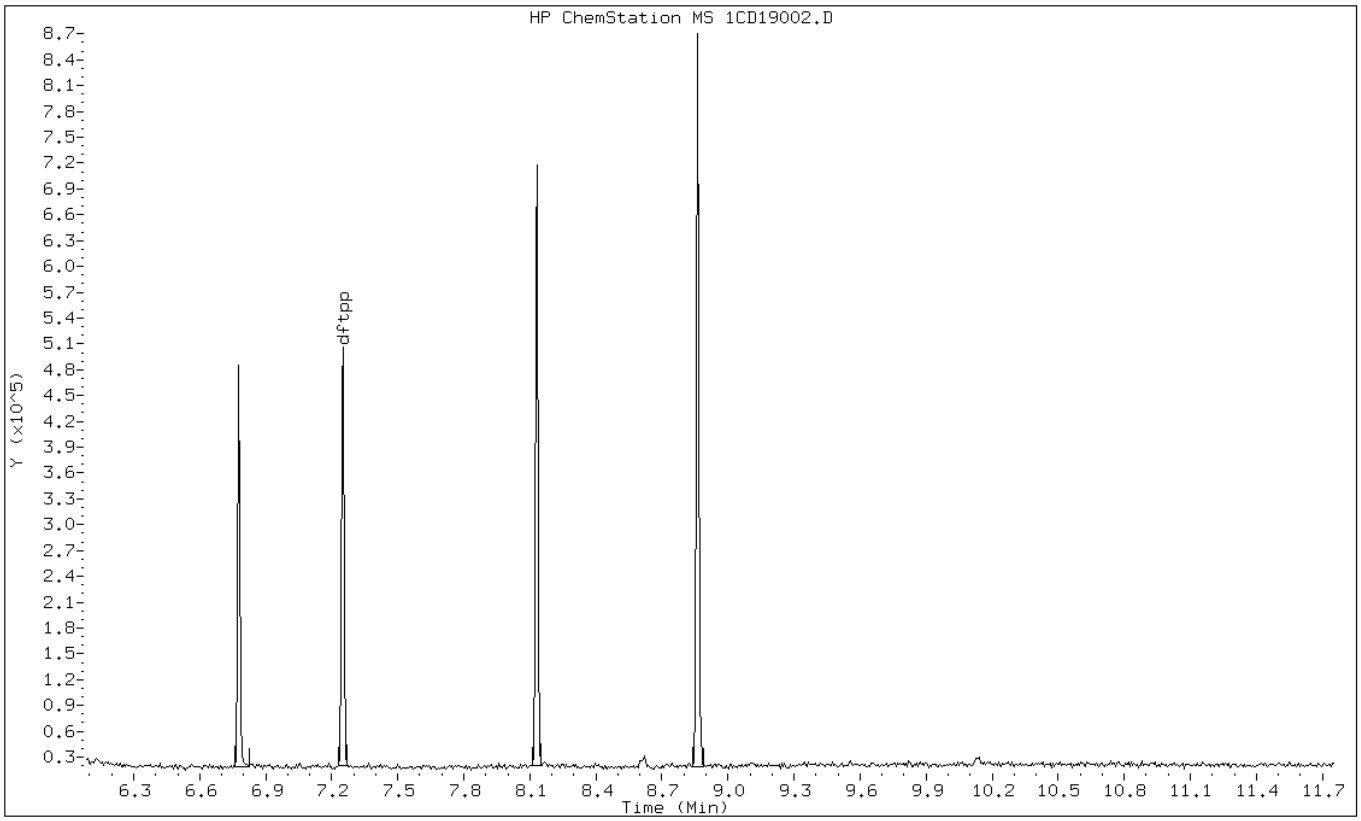
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.251	7.469	-0.218	198	49952			50.00- 0.00	100.00
7.251	7.469	-0.218	51	22360			10.00- 80.00	44.76
7.251	7.469	-0.218	68	446			0.00- 2.00	1.94
7.251	7.469	-0.218	69	22992			0.00- 0.00	46.03
7.251	7.469	-0.218	70	236			0.00- 2.00	1.03
7.251	7.469	-0.218	127	23776			10.00- 80.00	47.60
7.251	7.469	-0.218	197	612			0.00- 2.00	1.23
7.251	7.469	-0.218	442	36928			50.00- 0.00	73.93
7.251	7.469	-0.218	199	2769			5.00- 9.00	5.54
7.251	7.469	-0.218	275	11275			10.00- 60.00	22.57
7.251	7.469	-0.218	365	3284			1.00- 0.00	6.57
7.251	7.469	-0.218	441	6054			0.01- 99.99	87.03
7.251	7.469	-0.218	443	6956			15.00- 24.00	18.84

Data File: 1CD19002.D

Date: 19-APR-2013 11:08

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



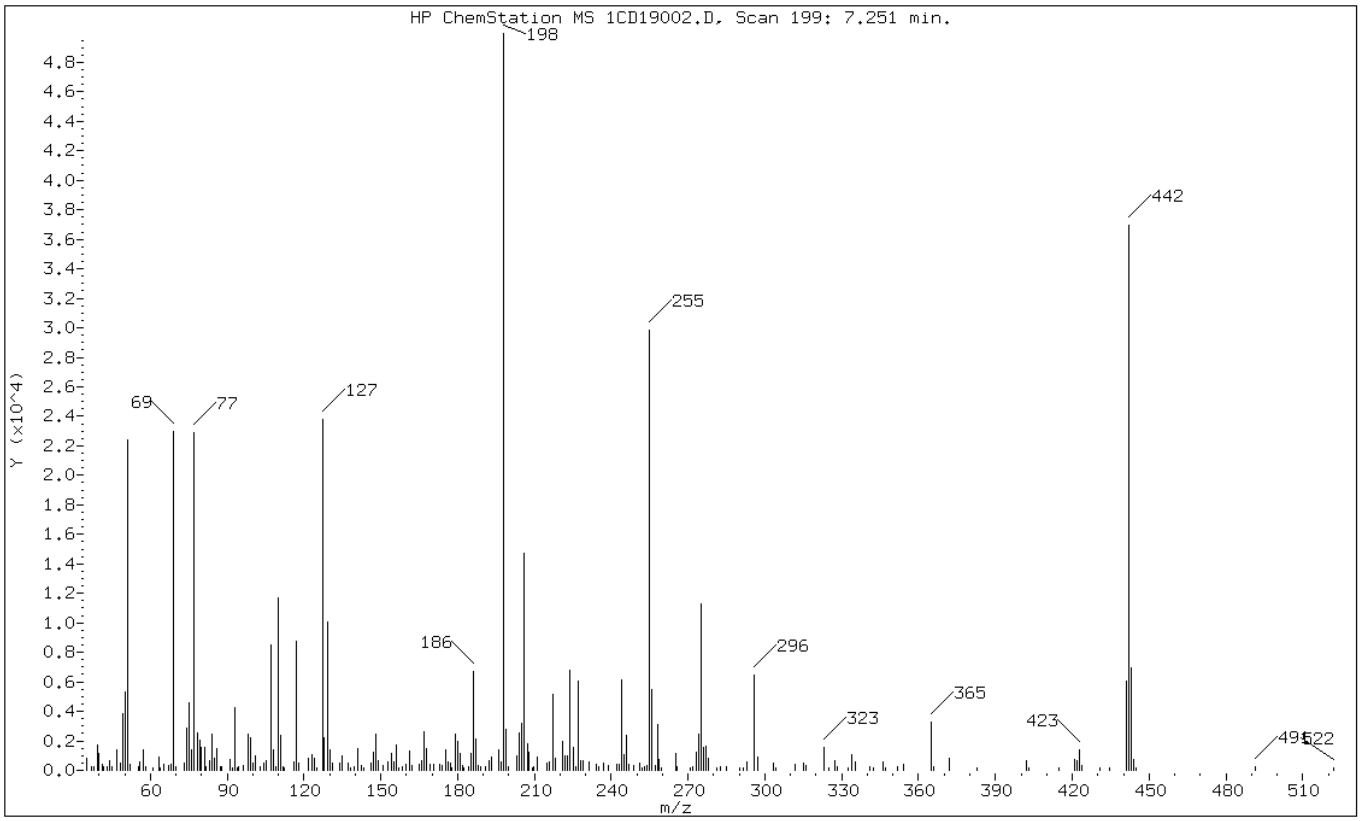
Data File: 1CD19002.D

Date: 19-APR-2013 11:08

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	44.76
68	Less than 2.00% of mass 69	0.89 (1.94)
69	Mass 69 relative abundance	46.03
70	Less than 2.00% of mass 69	0.47 (1.03)
127	10.00 - 80.00% of mass 198	47.60
197	Less than 2.00% of mass 198	1.23
442	Greater than 50.00% of mass 198	73.93
199	5.00 - 9.00% of mass 198	5.54
275	10.00 - 60.00% of mass 198	22.57
365	Greater than 1.00% of mass 198	6.57
441	Present, but less than mass 443	12.12
443	15.00 - 24.00% of mass 442	13.93 (18.84)

Data File: 1CD19002.D

Date: 19-APR-2013 11:08

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19002.D
Spectrum: HP ChemStation MS 1CD19002.D, Scan 199: 7.251 min.
Location of Maximum: 198.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	815	108.00	1401	185.00	1137	265.80	284
37.10	283	108.90	237	186.00	6671	270.80	168
38.00	236	110.00	11697	186.90	2118	271.80	231
39.10	1711	110.90	2348	188.00	328	273.00	1200
39.90	1148	112.00	222	188.90	282	273.90	2458
41.00	388	112.40	153	191.00	284	275.00	11275
41.90	231	115.90	602	192.10	658	275.90	1561
43.30	267	117.00	8736	193.10	907	277.00	1617
44.00	630	117.90	511	195.90	1391	278.00	823
45.00	267	121.90	840	197.10	612	281.00	152
46.90	1397	122.90	1062	198.00	49952	282.80	226
48.10	490	124.00	793	199.00	2769	284.80	219
49.00	3810	124.90	184	200.00	263	289.90	183
50.10	5349	127.10	23776	202.90	942	291.70	193
51.10	22360	127.90	2181	204.10	2558	293.10	601
52.00	417	129.00	10091	205.10	3156	296.00	6449
55.10	211	130.00	1364	206.10	14748	297.00	922
56.00	553	131.20	480	207.10	1806	303.10	470
57.00	1396	134.00	484	208.00	1264	304.10	154
58.10	216	134.90	942	209.20	204	312.00	439
61.20	182	137.00	513	209.90	255	314.90	511
63.10	882	138.10	190	211.20	876	316.00	349
64.00	170	139.70	282	214.90	450	322.90	1537
65.00	447	141.10	1468	216.00	545	324.80	164
66.90	303	142.30	350	217.00	5151	327.10	614
68.00	446	143.20	169	218.00	844	328.20	276
69.00	22992	146.00	455	220.90	1970	332.40	158
69.90	236	147.10	1265	221.70	1006	333.90	1050
73.30	455	148.00	2448	223.00	953	335.10	568
74.10	2873	148.90	646	224.00	6773	341.00	226
75.00	4567	151.00	299	225.10	1563	342.20	184
75.90	1369	152.80	545	226.20	231	346.10	553
77.10	22888	154.10	1146	227.10	6011	347.10	200
78.20	2549	155.20	544	227.90	628	351.70	258
79.10	2048	156.10	1745	228.90	661	353.90	384
80.00	1578	156.80	203	231.10	556	364.90	3284
81.00	1588	158.20	239	234.00	422	365.70	282
81.90	243	159.90	394	235.10	284	371.90	812
82.90	676	161.00	1323	236.80	511	383.00	200
84.00	2434	162.00	318	238.90	341	402.00	621

85.00	834	164.90	449	242.10	391	402.90	174
86.00	1437	165.90	665	243.10	395	415.00	204
87.10	278	167.00	2579	244.00	6138	421.10	740
87.90	222	168.00	1444	245.00	1028	422.00	683
90.90	766	169.00	384	246.00	2356	423.00	1388
91.90	169	170.70	391	246.90	427	423.80	303
93.00	4234	172.90	425	248.90	305	430.70	172
93.80	152	174.10	352	251.00	531	434.80	161
94.20	217	175.10	1358	252.20	166	441.00	6054
96.10	292	176.20	608	252.80	235	442.00	36928
98.00	2412	177.00	521	253.70	359	443.00	6956
99.00	2178	177.80	153	255.00	29848	444.00	740
100.00	487	179.00	2423	256.00	5486	444.90	181
101.00	943	180.00	1934	257.00	348	491.40	221
103.00	273	181.00	1159	258.00	3075	522.10	169
104.10	484	181.70	309	258.80	701		
105.10	647	182.60	185	259.70	179		
107.00	8495	184.10	229	265.00	1132		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-APR-2013 11:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

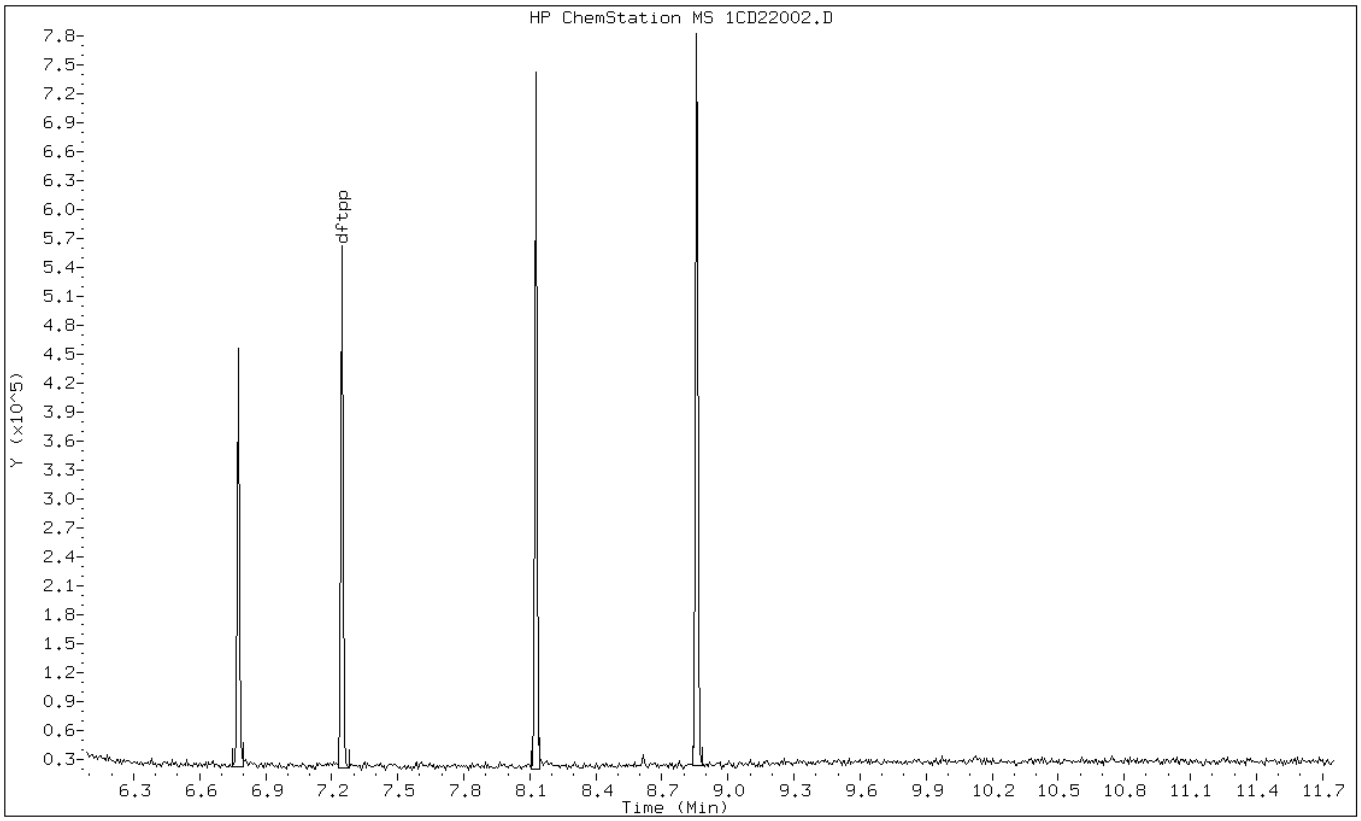
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.245	7.469	-0.224	198	33172			50.00- 0.00	100.00
7.245	7.469	-0.224	51	19866			10.00- 80.00	59.89
7.245	7.469	-0.224	68	380			0.00- 2.00	1.88
7.245	7.469	-0.224	69	20205			0.00- 0.00	60.91
7.245	7.469	-0.224	70	229			0.00- 2.00	1.13
7.245	7.469	-0.224	127	18677			10.00- 80.00	56.30
7.245	7.469	-0.224	197	232			0.00- 2.00	0.70
7.245	7.469	-0.224	442	24156			50.00- 0.00	72.82
7.245	7.469	-0.224	199	2591			5.00- 9.00	7.81
7.245	7.469	-0.224	275	9466			10.00- 60.00	28.54
7.245	7.469	-0.224	365	2299			1.00- 0.00	6.93
7.245	7.469	-0.224	441	3919			0.01- 99.99	77.97
7.245	7.469	-0.224	443	5026			15.00- 24.00	20.81

Data File: 1CD22002.D

Date: 22-APR-2013 11:33

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC



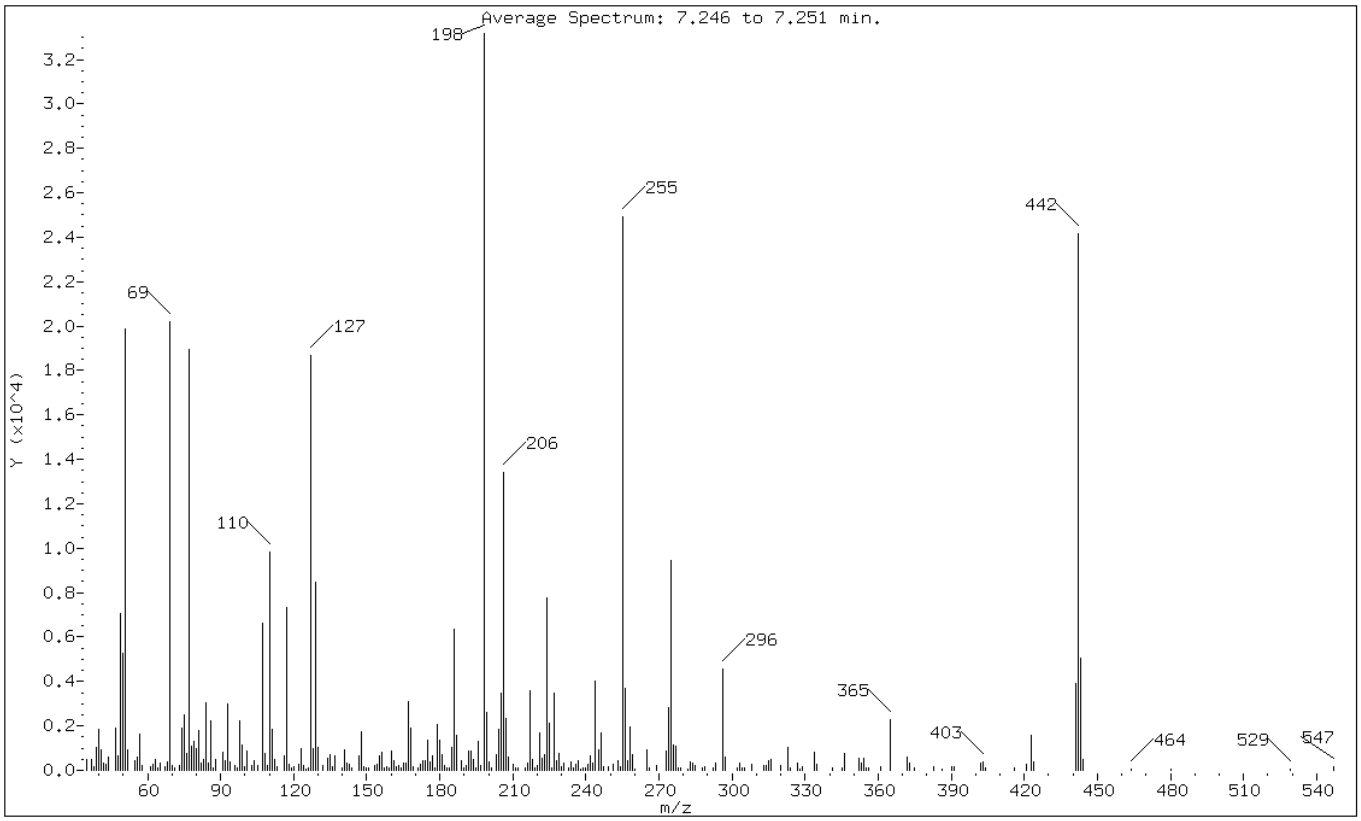
Data File: 1CD22002.D

Date: 22-APR-2013 11:33

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	59.89
68	Less than 2.00% of mass 69	1.15 (1.88)
69	Mass 69 relative abundance	60.91
70	Less than 2.00% of mass 69	0.69 (1.13)
127	10.00 - 80.00% of mass 198	56.30
197	Less than 2.00% of mass 198	0.70
442	Greater than 50.00% of mass 198	72.82
199	5.00 - 9.00% of mass 198	7.81
275	10.00 - 60.00% of mass 198	28.54
365	Greater than 1.00% of mass 198	6.93
441	Present, but less than mass 443	11.81
443	15.00 - 24.00% of mass 442	15.15 (20.81)

Data File: 1CD22002.D

Date: 22-APR-2013 11:33

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22002.D
Spectrum: Average Spectrum: 7.246 to 7.251 min.
Location of Maximum: 198.00
Number of points: 261

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	469	117.00	7316	193.00	851	276.00	1162
37.00	479	118.00	245	194.00	470	277.00	1088
38.00	188	119.00	89	195.00	85	278.00	105
39.00	1036	120.00	185	196.00	1312	279.00	130
40.00	1832	122.00	288	197.00	232	282.00	81
41.00	936	123.00	966	198.00	33168	283.00	374
42.00	316	124.00	227	199.00	2591	284.00	311
43.00	255	125.00	78	200.00	394	285.00	236
44.00	618	126.00	98	201.00	85	288.00	87
47.00	1901	127.00	18672	203.00	727	289.00	150
48.00	625	128.00	974	204.00	1864	292.00	100
49.00	7041	129.00	8478	205.00	3481	293.00	347
50.00	5261	130.00	1029	206.00	13415	296.00	4587
51.00	19864	132.00	234	207.00	2317	297.00	620
52.00	897	134.00	529	208.00	619	302.00	102
55.00	441	135.00	693	210.00	285	303.00	337
56.00	597	136.00	173	211.00	121	304.00	100
57.00	1643	137.00	636	212.00	115	305.00	97
58.00	203	140.00	100	215.00	128	308.00	295
61.00	146	141.00	899	216.00	335	313.00	206
62.00	255	142.00	347	217.00	3591	314.00	232
63.00	464	143.00	274	218.00	504	315.00	446
64.00	119	144.00	97	219.00	107	316.00	477
65.00	351	147.00	632	220.00	195	320.00	203
67.00	178	148.00	1726	221.00	1701	323.00	1018
68.00	380	149.00	148	222.00	521	324.00	96
69.00	20200	150.00	121	223.00	702	327.00	311
70.00	229	151.00	104	224.00	7764	328.00	81
71.00	100	153.00	201	225.00	2090	329.00	152
73.00	203	154.00	251	226.00	118	334.00	809
74.00	1880	155.00	636	227.00	3490	335.00	277
75.00	2480	156.00	811	228.00	432	341.00	123
76.00	736	157.00	91	229.00	739	345.00	113
77.00	18968	158.00	186	230.00	168	346.00	747
78.00	1112	159.00	115	231.00	352	352.00	567
79.00	1312	160.00	856	233.00	128	353.00	314
80.00	996	161.00	419	234.00	374	354.00	560
81.00	1794	162.00	184	235.00	130	355.00	131
82.00	341	163.00	234	236.00	276	356.00	84
83.00	502	164.00	89	237.00	448	361.00	154

84.00	3064	165.00	326	238.00	81	365.00	2299
85.00	318	166.00	318	239.00	114	372.00	592
86.00	2231	167.00	3095	240.00	104	373.00	328
87.00	99	168.00	1907	241.00	263	375.00	95
88.00	467	169.00	167	242.00	649	383.00	189
91.00	831	171.00	106	243.00	351	386.00	79
92.00	450	172.00	266	244.00	4039	390.00	156
93.00	2990	173.00	434	245.00	912	391.00	155
94.00	357	174.00	424	246.00	1698	402.00	335
96.00	204	175.00	1361	247.00	140	403.00	353
97.00	107	176.00	371	249.00	155	404.00	103
98.00	2227	177.00	671	251.00	266	416.00	131
99.00	1162	178.00	90	253.00	412	421.00	256
100.00	153	179.00	2062	254.00	173	423.00	1565
101.00	853	180.00	1344	255.00	24904	424.00	366
103.00	232	181.00	687	256.00	3709	441.00	3919
104.00	418	182.00	243	257.00	425	442.00	24152
105.00	203	183.00	94	258.00	1932	443.00	5026
107.00	6626	184.00	98	259.00	702	444.00	508
108.00	767	185.00	1008	260.00	75	464.00	80
109.00	226	186.00	6340	265.00	927	480.00	76
110.00	9851	187.00	1588	266.00	125	529.00	79
111.00	1842	189.00	426	269.00	191	547.00	169
112.00	462	190.00	88	273.00	869		
113.00	139	191.00	233	274.00	2838		
116.00	657	192.00	885	275.00	9466		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 04-APR-2013 12:15
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

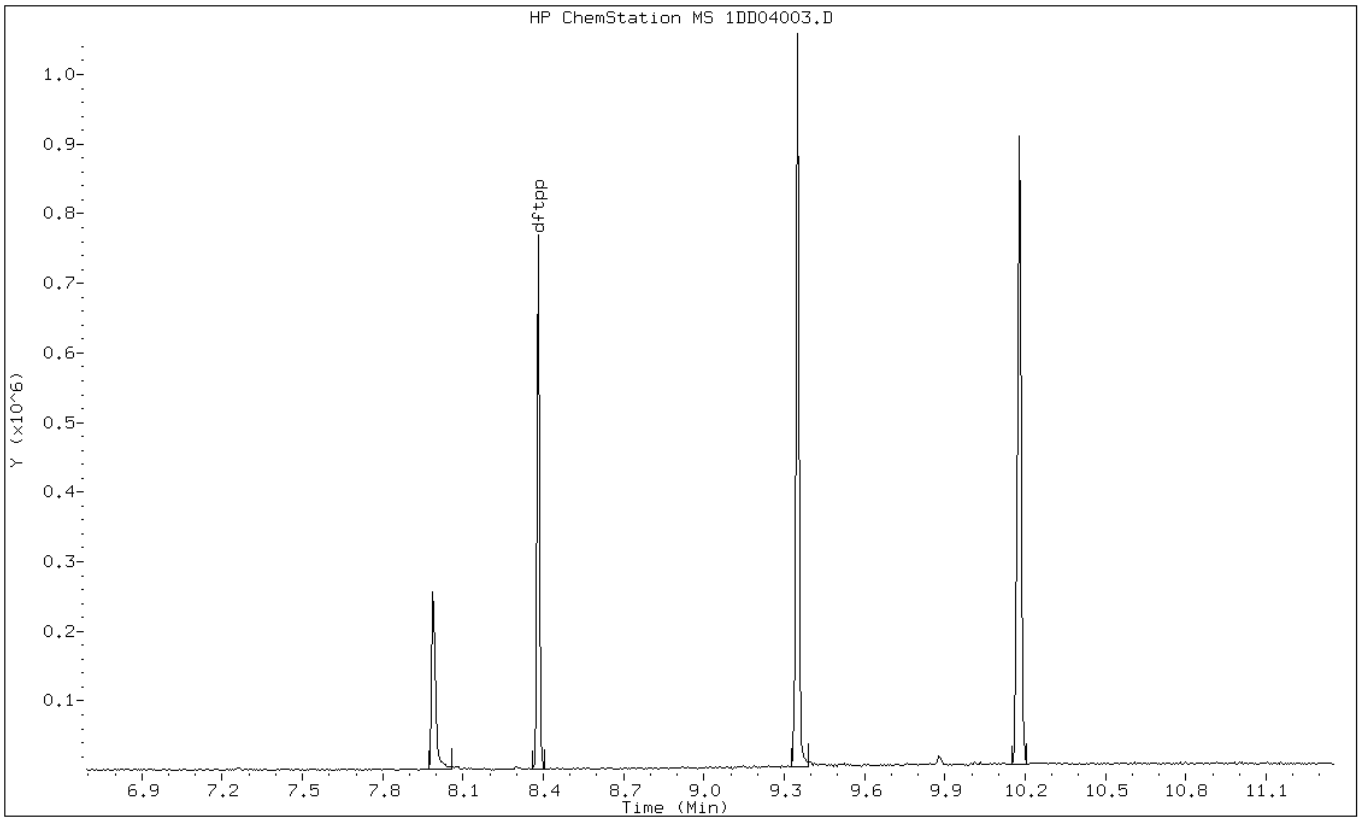
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.382	8.532	-0.150	198	72572			50.00- 0.00	100.00
8.382	8.532	-0.150	51	32556			10.00- 80.00	44.86
8.382	8.532	-0.150	68	0	0.0	0.0	0.00- 2.00	0.00
8.382	8.532	-0.150	69	32936			0.00- 0.00	45.38
8.382	8.532	-0.150	70	114			0.00- 2.00	0.35
8.382	8.532	-0.150	127	36680			10.00- 80.00	50.54
8.382	8.532	-0.150	197	0	0.0	0.0	0.00- 2.00	0.00
8.382	8.532	-0.150	442	48716			50.00- 0.00	67.13
8.382	8.532	-0.150	199	4977			5.00- 9.00	6.86
8.382	8.532	-0.150	275	19350			10.00- 60.00	26.66
8.382	8.532	-0.150	365	2279			1.00- 0.00	3.14
8.382	8.532	-0.150	441	2370			0.01- 99.99	23.58
8.382	8.532	-0.150	443	10052			15.00- 24.00	20.63

Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC



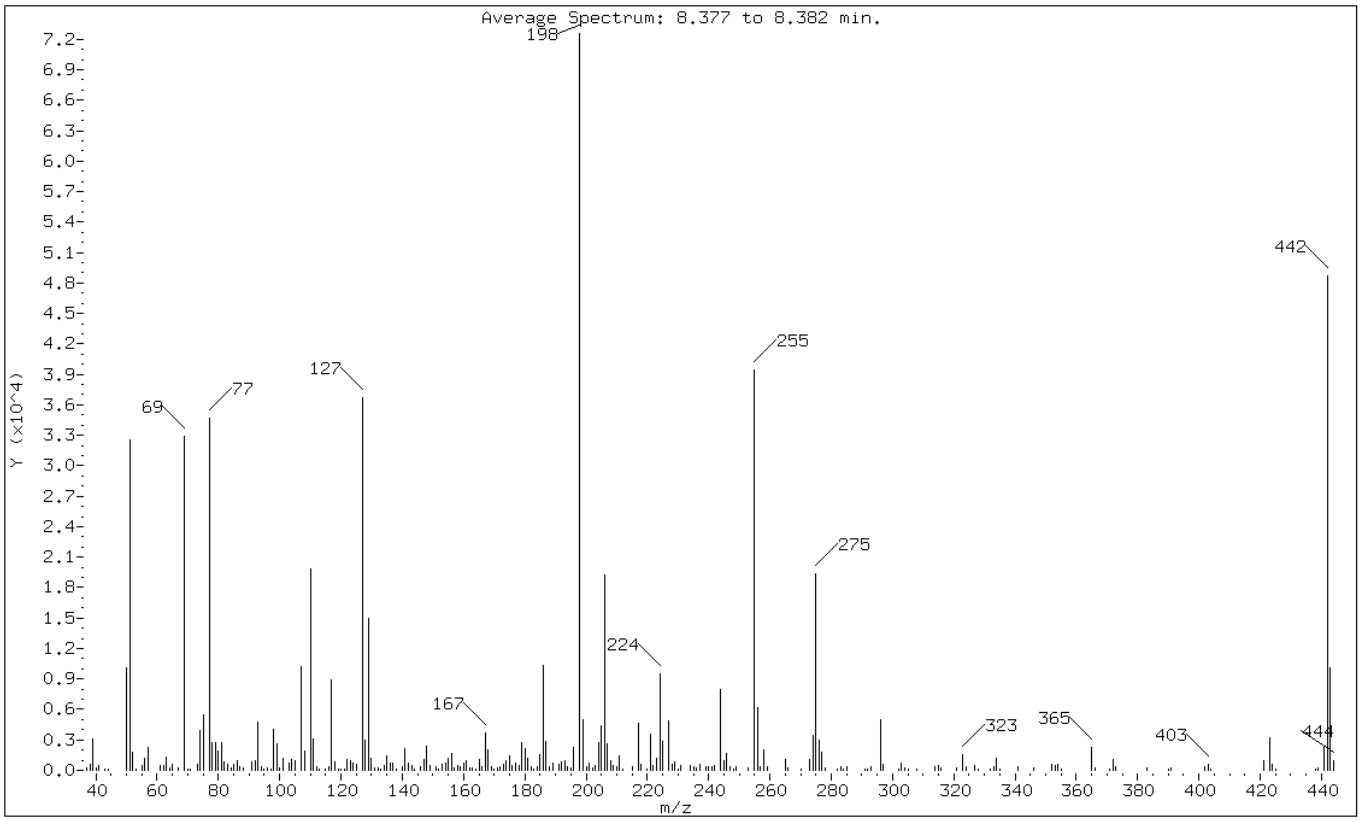
Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	44.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	45.38
70	Less than 2.00% of mass 69	0.16 (0.35)
127	10.00 - 80.00% of mass 198	50.54
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.13
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 60.00% of mass 198	26.66
365	Greater than 1.00% of mass 198	3.14
441	Present, but less than mass 443	3.27
443	15.00 - 24.00% of mass 442	13.85 (20.63)

Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
Spectrum: Average Spectrum: 8.377 to 8.382 min.
Location of Maximum: 198.00
Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	274	119.00	120	185.00	1517	270.00	78
38.00	589	120.00	118	186.00	10284	273.00	1081
39.00	3038	121.00	77	187.00	2888	274.00	3485
40.00	277	122.00	1015	188.00	332	275.00	19344
41.00	463	123.00	946	189.00	735	276.00	2999
43.00	124	124.00	666	191.00	579	277.00	1839
44.00	117	125.00	567	192.00	873	278.00	226
50.00	10128	127.00	36680	193.00	975	282.00	81
51.00	32552	128.00	2957	194.00	335	283.00	314
52.00	1767	129.00	14951	195.00	275	284.00	90
53.00	85	130.00	1205	196.00	2233	285.00	356
55.00	420	131.00	194	198.00	72568	291.00	83
56.00	1176	132.00	206	199.00	4977	292.00	80
57.00	2213	133.00	92	200.00	323	293.00	412
61.00	490	134.00	523	201.00	663	296.00	5046
62.00	459	135.00	1404	202.00	210	297.00	576
63.00	1290	136.00	674	203.00	519	302.00	157
64.00	230	137.00	709	204.00	2685	303.00	675
65.00	539	138.00	79	205.00	4398	304.00	185
67.00	251	140.00	333	206.00	19200	305.00	82
69.00	32936	141.00	2082	207.00	2631	308.00	174
70.00	114	142.00	713	208.00	974	314.00	314
71.00	81	143.00	523	209.00	499	315.00	487
73.00	647	144.00	93	210.00	329	316.00	223
74.00	3962	146.00	312	211.00	1393	321.00	206
75.00	5478	147.00	1032	212.00	165	323.00	1494
77.00	34688	148.00	2326	215.00	308	324.00	410
78.00	2711	149.00	488	217.00	4596	327.00	476
79.00	2695	151.00	320	218.00	606	328.00	99
80.00	1923	152.00	103	220.00	76	332.00	111
81.00	2677	153.00	558	221.00	3596	333.00	396
82.00	777	154.00	665	222.00	431	334.00	1163
83.00	630	155.00	1227	223.00	1208	335.00	119
84.00	185	156.00	1628	224.00	9447	341.00	297
85.00	566	157.00	240	225.00	2804	346.00	197
86.00	895	158.00	430	227.00	4861	352.00	557
87.00	384	159.00	320	228.00	637	353.00	477
88.00	184	160.00	765	229.00	843	354.00	558
91.00	856	161.00	1005	230.00	115	355.00	81
92.00	893	162.00	279	231.00	446	365.00	2279

93.00	4736	163.00	190	234.00	485	366.00	181
94.00	298	164.00	105	235.00	402	371.00	117
95.00	167	165.00	1019	236.00	243	372.00	1076
96.00	240	166.00	344	237.00	537	373.00	335
97.00	178	167.00	3671	239.00	320	383.00	219
98.00	4066	168.00	1997	240.00	333	390.00	136
99.00	2655	169.00	349	241.00	361	391.00	180
100.00	295	170.00	112	242.00	472	402.00	362
101.00	1142	171.00	208	244.00	7939	403.00	564
103.00	719	172.00	342	245.00	988	404.00	144
104.00	1122	173.00	643	246.00	1619	421.00	961
105.00	909	174.00	893	247.00	381	423.00	3222
107.00	10195	175.00	1368	248.00	80	424.00	628
108.00	1940	176.00	519	249.00	382	425.00	87
110.00	19784	177.00	713	253.00	265	438.00	129
111.00	3136	178.00	422	255.00	39432	439.00	214
112.00	374	179.00	2728	256.00	6151	441.00	2370
113.00	128	180.00	2151	257.00	340	442.00	48712
115.00	153	181.00	1200	258.00	2068	443.00	10052
116.00	393	182.00	314	259.00	399	444.00	994
117.00	8897	183.00	98	265.00	1086		
118.00	800	184.00	382	266.00	282		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2013 13:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.349	8.532	-0.183	198	70128			50.00- 0.00	100.00
8.349	8.532	-0.183	51	32928			10.00- 80.00	46.95
8.349	8.532	-0.183	68	0	0.0	0.0	0.00- 2.00	0.00
8.349	8.532	-0.183	69	32616			0.00- 0.00	46.51
8.349	8.532	-0.183	70	215			0.00- 2.00	0.66
8.349	8.532	-0.183	127	33552			10.00- 80.00	47.84
8.349	8.532	-0.183	197	0	0.0	0.0	0.00- 2.00	0.00
8.349	8.532	-0.183	442	41592			50.00- 0.00	59.31
8.349	8.532	-0.183	199	5399			5.00- 9.00	7.70
8.349	8.532	-0.183	275	18384			10.00- 60.00	26.21
8.349	8.532	-0.183	365	1838			1.00- 0.00	2.62
8.349	8.532	-0.183	441	6026			0.01- 99.99	70.67
8.349	8.532	-0.183	443	8527			15.00- 24.00	20.50

Data File: 1DD18005.D

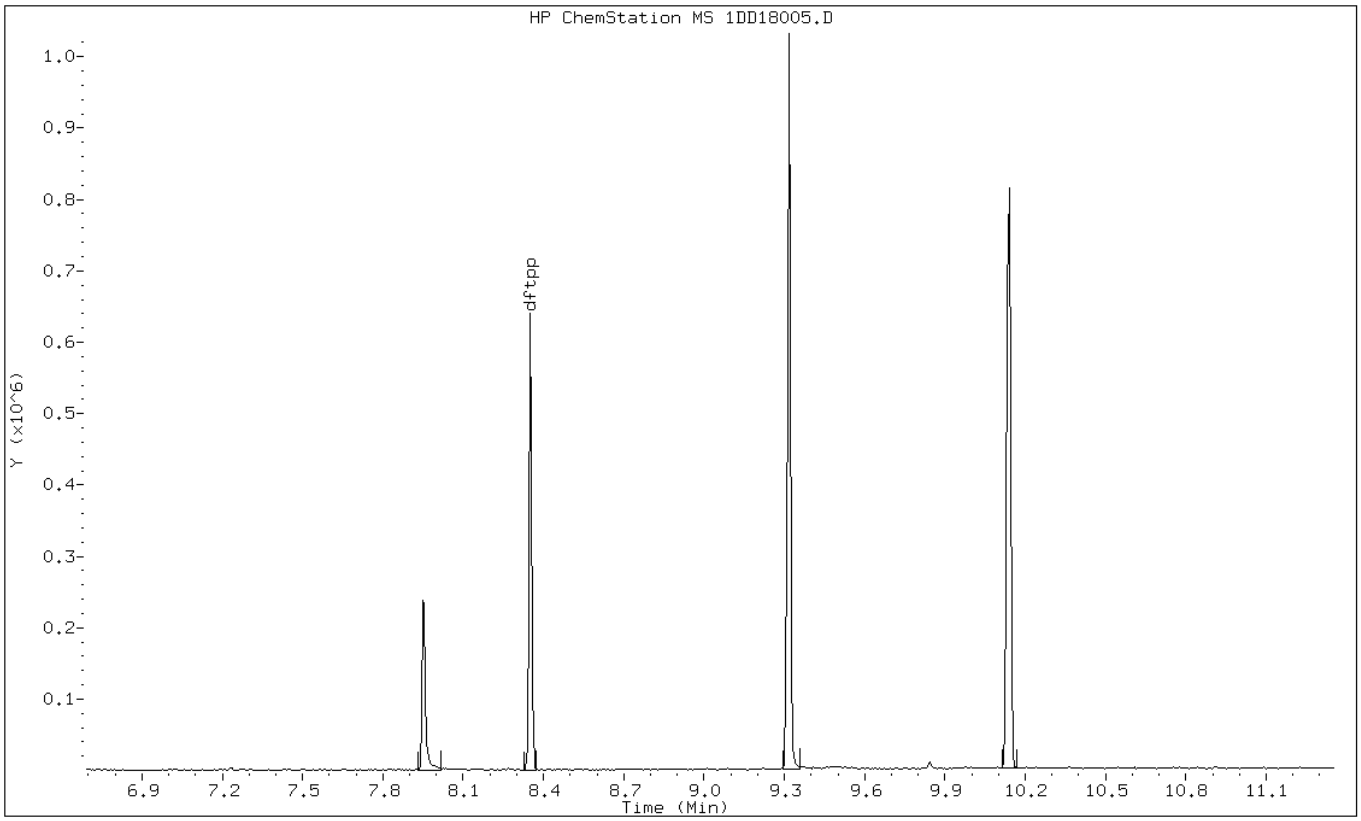
Date: 18-APR-2013 13:43

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



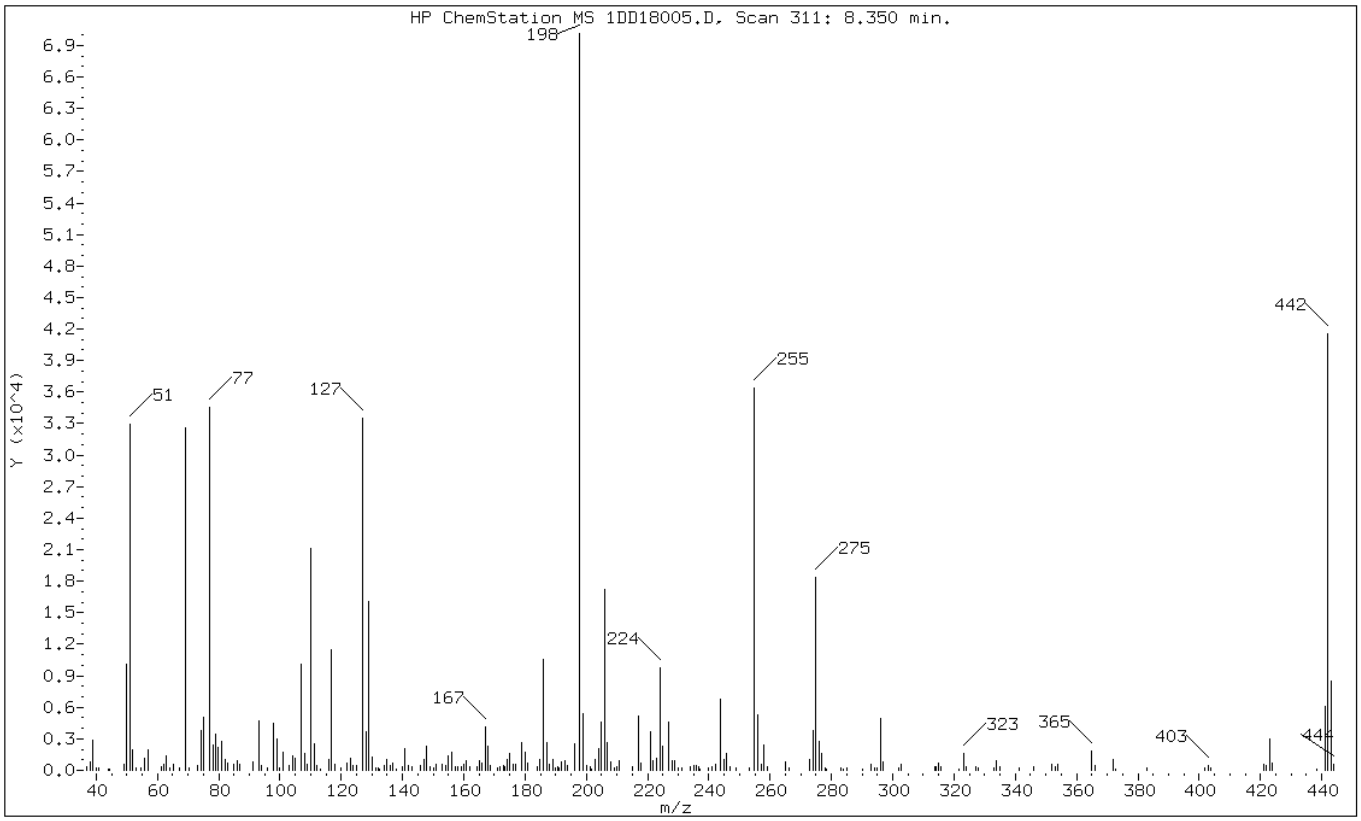
Data File: 1DD18005.D

Date: 18-APR-2013 13:43

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.95
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.51
70	Less than 2.00% of mass 69	0.31 (0.66)
127	10.00 - 80.00% of mass 198	47.84
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	59.31
199	5.00 - 9.00% of mass 198	7.70
275	10.00 - 60.00% of mass 198	26.21
365	Greater than 1.00% of mass 198	2.62
441	Present, but less than mass 443	8.59
443	15.00 - 24.00% of mass 442	12.16 (20.50)

Data File: 1DD18005.D

Date: 18-APR-2013 13:43

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D041813.b\1DD18005.D
Spectrum: HP ChemStation MS 1DD18005.D, Scan 311: 8.350 min.
Location of Maximum: 197.90
Number of points: 224

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	315	119.90	199	187.00	2601	266.00	190
38.00	838	121.80	694	187.80	546	272.90	1043
39.00	2849	122.90	1118	189.00	1009	274.00	3764
39.90	239	124.00	467	190.00	261	275.00	18384
41.00	191	125.00	502	190.80	323	275.90	2740
43.90	156	127.00	33552	191.10	251	276.80	1632
44.40	159	128.00	3711	191.90	831	277.90	237
49.00	613	128.90	16047	192.90	921	278.40	161
50.00	10141	130.00	1277	193.90	439	282.90	202
51.00	32928	131.20	245	196.00	2556	283.90	156
52.00	1960	131.90	181	197.90	70128	285.00	258
52.90	201	132.60	156	198.90	5399	290.00	153
54.70	235	134.00	504	200.00	478	292.80	550
55.90	1108	134.90	1060	201.10	336	294.10	185
57.00	1924	135.80	443	201.70	163	294.80	256
61.10	379	136.90	683	202.90	1078	295.90	4916
61.90	518	137.90	164	203.90	2110	296.90	808
63.00	1400	140.10	371	205.00	4559	302.00	200
64.10	200	140.90	2015	206.00	17272	302.90	631
65.10	599	141.90	488	206.90	2597	313.70	304
67.00	205	142.90	371	208.00	825	314.00	291
69.00	32616	145.90	514	209.00	222	314.90	701
70.30	215	146.90	1063	209.90	353	315.90	362
73.00	415	147.90	2337	210.80	893	321.50	159
74.10	3830	148.90	351	214.90	345	323.00	1565
75.00	5099	150.00	173	216.90	5151	324.00	390
77.00	34512	151.00	545	217.90	677	327.00	310
78.00	2382	152.90	595	220.90	3626	328.00	221
79.00	3411	153.90	427	221.90	886	333.10	234
79.90	2133	155.00	1366	222.90	1098	333.90	969
81.00	2805	156.00	1753	223.90	9746	335.00	332
82.00	1079	157.20	343	225.00	2303	341.20	194
82.90	707	157.90	363	226.90	4592	345.90	300
84.90	539	159.00	327	228.10	862	352.00	553
86.00	921	159.80	620	228.80	890	353.00	400
86.90	568	160.90	970	230.00	254	354.00	552
91.00	843	162.10	374	231.20	177	364.80	1838
93.00	4658	164.20	287	234.10	295	366.00	435
93.90	424	164.90	898	235.10	444	371.90	1060
95.80	231	165.90	672	235.80	416	372.90	156

97.90	4477	167.00	4140	236.70	385	382.80	226
99.00	2950	167.90	2311	237.20	159	402.00	256
99.90	275	168.80	459	239.70	198	402.90	509
101.00	1700	170.90	194	240.90	314	403.90	191
102.90	461	171.80	322	242.00	607	421.10	592
104.00	1378	172.80	419	243.90	6736	421.90	432
104.90	1197	173.20	341	245.00	1060	422.90	2954
106.90	10058	174.10	1022	245.90	1600	423.90	730
108.00	1640	175.00	1654	246.80	289	438.20	162
108.90	583	176.10	523	248.80	278	441.00	6026
110.00	21064	177.00	561	253.00	242	441.90	41592
111.10	2567	178.90	2612	254.90	36368	443.00	8527
112.00	474	180.00	1747	255.80	5317	443.90	617
113.10	150	181.00	738	257.00	568		
116.00	1088	183.90	303	257.90	2413		
116.90	11461	184.90	1056	258.90	292		
117.90	602	186.00	10582	265.10	827		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-APR-2013 10:26
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.349	8.532	-0.183	198	53672			50.00- 0.00	100.00
8.349	8.532	-0.183	51	25210			10.00- 80.00	46.97
8.349	8.532	-0.183	68	106			0.00- 2.00	0.43
8.349	8.532	-0.183	69	24404			0.00- 0.00	45.47
8.349	8.532	-0.183	70	0	0.0	0.0	0.00- 2.00	0.00
8.349	8.532	-0.183	127	26678			10.00- 80.00	49.71
8.349	8.532	-0.183	197	0	0.0	0.0	0.00- 2.00	0.00
8.349	8.532	-0.183	442	39710			50.00- 0.00	73.99
8.349	8.532	-0.183	199	3206			5.00- 9.00	5.97
8.349	8.532	-0.183	275	14384			10.00- 60.00	26.80
8.349	8.532	-0.183	365	2044			1.00- 0.00	3.81
8.349	8.532	-0.183	441	375			0.01- 99.99	4.64
8.349	8.532	-0.183	443	8077			15.00- 24.00	20.34

Data File: 1DD22002.D

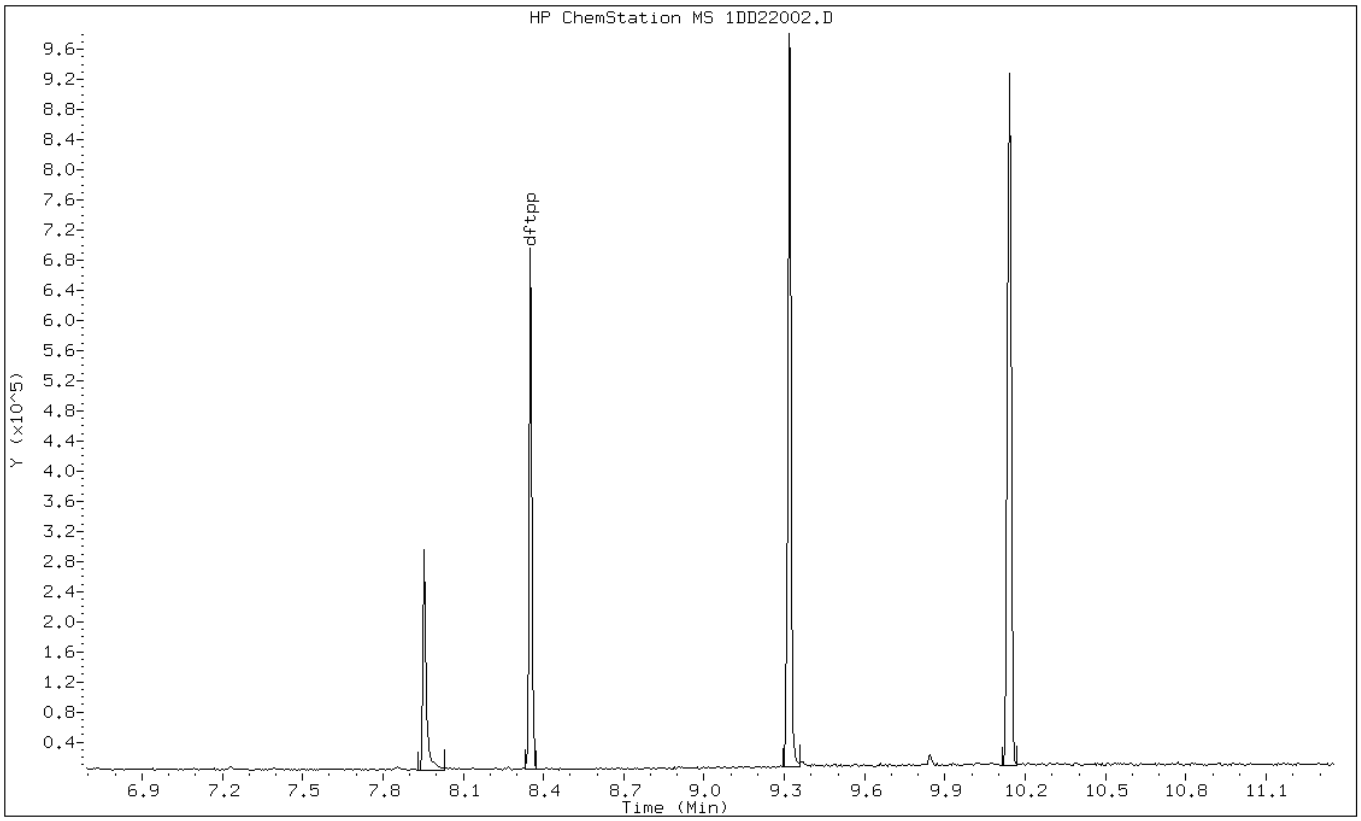
Date: 22-APR-2013 10:26

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



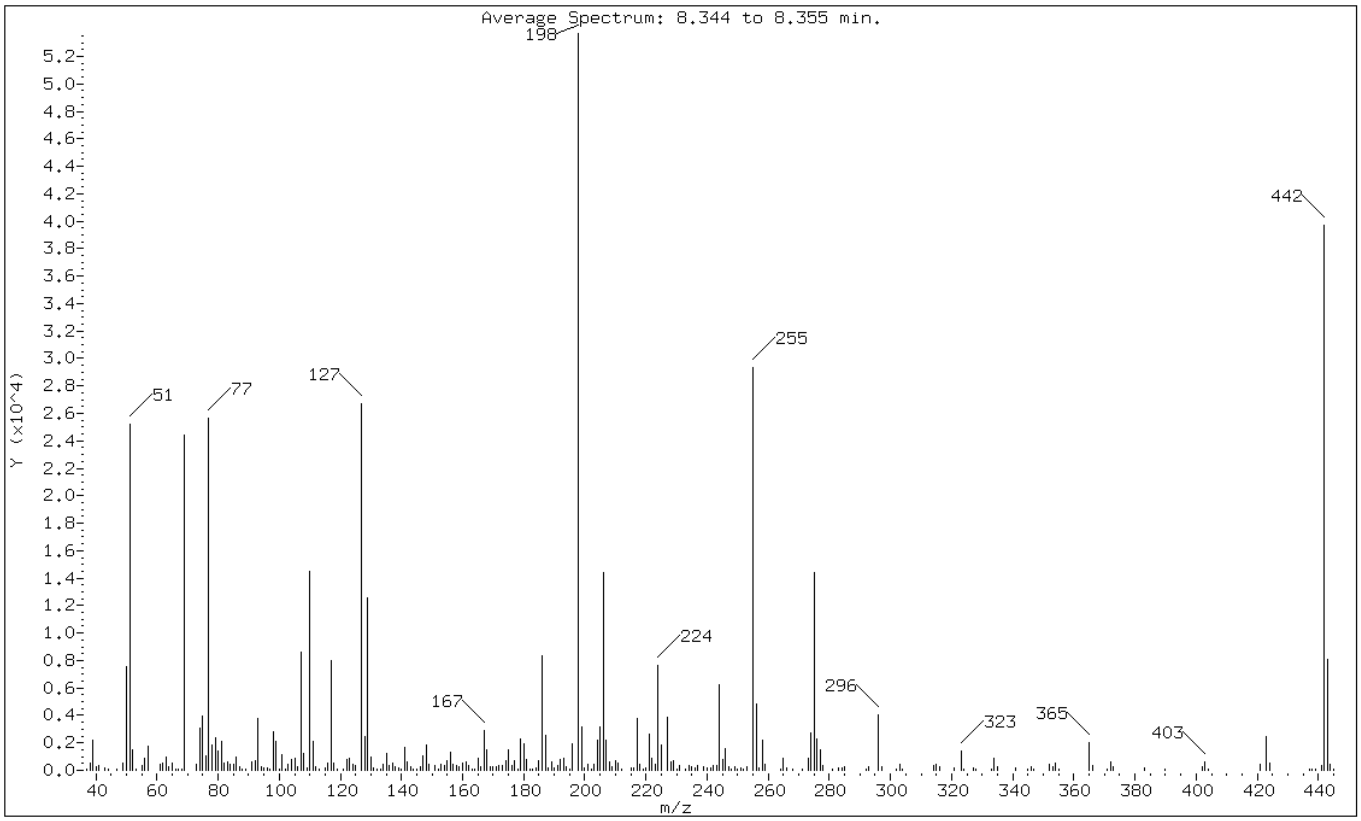
Data File: 1DD22002.D

Date: 22-APR-2013 10:26

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.97
68	Less than 2.00% of mass 69	0.20 (0.43)
69	Mass 69 relative abundance	45.47
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	49.71
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	73.99
199	5.00 - 9.00% of mass 198	5.97
275	10.00 - 60.00% of mass 198	26.80
365	Greater than 1.00% of mass 198	3.81
441	Present, but less than mass 443	0.70
443	15.00 - 24.00% of mass 442	15.05 (20.34)

Data File: 1DD22002.D

Date: 22-APR-2013 10:26

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22002.D
Spectrum: Average Spectrum: 8.344 to 8.355 min.
Location of Maximum: 198.00
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	109	116.00	484	185.00	745	258.00	2158
38.00	570	117.00	7971	186.00	8314	259.00	399
39.00	2226	118.00	544	187.00	2575	264.00	82
40.00	274	119.00	69	188.00	144	265.00	905
41.00	388	121.00	81	189.00	649	266.00	183
43.00	199	122.00	786	190.00	171	268.00	61
44.00	86	123.00	893	191.00	324	271.00	86
47.00	82	124.00	483	192.00	814	273.00	868
49.00	532	125.00	363	193.00	843	274.00	2751
50.00	7580	127.00	26672	194.00	252	275.00	14384
51.00	25208	128.00	2438	195.00	55	276.00	2240
52.00	1456	129.00	12578	196.00	1918	277.00	1463
53.00	63	130.00	1000	198.00	53672	278.00	334
55.00	389	131.00	189	199.00	3206	281.00	61
56.00	892	132.00	59	200.00	206	283.00	187
57.00	1727	133.00	128	201.00	404	284.00	166
61.00	417	134.00	434	202.00	60	285.00	264
62.00	503	135.00	1270	203.00	482	292.00	86
63.00	984	136.00	315	204.00	2171	293.00	229
64.00	229	137.00	529	205.00	3186	296.00	4044
65.00	499	138.00	233	206.00	14377	297.00	306
66.00	52	139.00	132	207.00	2169	302.00	63
67.00	60	140.00	78	208.00	637	303.00	469
68.00	106	141.00	1656	209.00	279	304.00	125
69.00	24400	142.00	617	210.00	665	314.00	315
73.00	427	143.00	306	211.00	518	315.00	450
74.00	3093	144.00	79	212.00	63	316.00	238
75.00	3982	145.00	108	215.00	206	321.00	151
76.00	1092	146.00	292	216.00	152	323.00	1387
77.00	25688	147.00	1069	217.00	3796	324.00	124
78.00	1864	148.00	1843	218.00	477	327.00	198
79.00	2335	149.00	446	219.00	131	328.00	72
80.00	1433	151.00	312	220.00	193	333.00	70
81.00	2092	152.00	99	221.00	2609	334.00	902
82.00	553	153.00	426	222.00	903	335.00	269
83.00	584	154.00	353	223.00	424	341.00	164
84.00	421	155.00	744	224.00	7604	345.00	50
85.00	413	156.00	1278	225.00	1802	346.00	293
86.00	991	157.00	429	227.00	3831	347.00	73
87.00	292	158.00	365	228.00	606	352.00	405

88.00	64	159.00	281	229.00	742	353.00	267
89.00	57	160.00	556	230.00	50	354.00	508
91.00	645	161.00	656	231.00	313	355.00	68
92.00	676	162.00	355	233.00	122	365.00	2044
93.00	3783	163.00	50	234.00	312	366.00	365
94.00	267	164.00	52	235.00	292	371.00	69
95.00	156	165.00	850	236.00	213	372.00	656
96.00	143	166.00	274	237.00	346	373.00	291
97.00	61	167.00	2902	239.00	229	383.00	201
98.00	2808	168.00	1455	240.00	156	390.00	85
99.00	2077	169.00	290	241.00	206	402.00	288
100.00	55	170.00	247	242.00	375	403.00	576
101.00	1119	171.00	286	243.00	380	404.00	65
102.00	69	172.00	364	244.00	6230	421.00	465
103.00	444	173.00	378	245.00	772	423.00	2495
104.00	800	174.00	662	246.00	1570	424.00	547
105.00	836	175.00	1463	247.00	227	437.00	55
106.00	272	176.00	392	248.00	109	438.00	54
107.00	8643	177.00	721	249.00	264	439.00	59
108.00	1228	178.00	58	250.00	56	441.00	375
109.00	133	179.00	2275	251.00	140	442.00	39704
110.00	14467	180.00	1926	252.00	50	443.00	8077
111.00	2126	181.00	752	253.00	220	444.00	442
112.00	246	182.00	107	255.00	29336	445.00	60
113.00	88	183.00	63	256.00	4832		
115.00	190	184.00	186	257.00	159		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: | Lab Sample ID: MB 660-136462/1-A

Matrix: Solid | Lab File ID: 1CD17005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/16/2013 07:00

Sample wt/vol: 15.04(g) | Date Analyzed: 04/17/2013 10:54

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.: 136590 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17005.D
Lab Smp Id: mb 660-136462/1-a
Inj Date : 17-APR-2013 10:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-136462/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m
Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

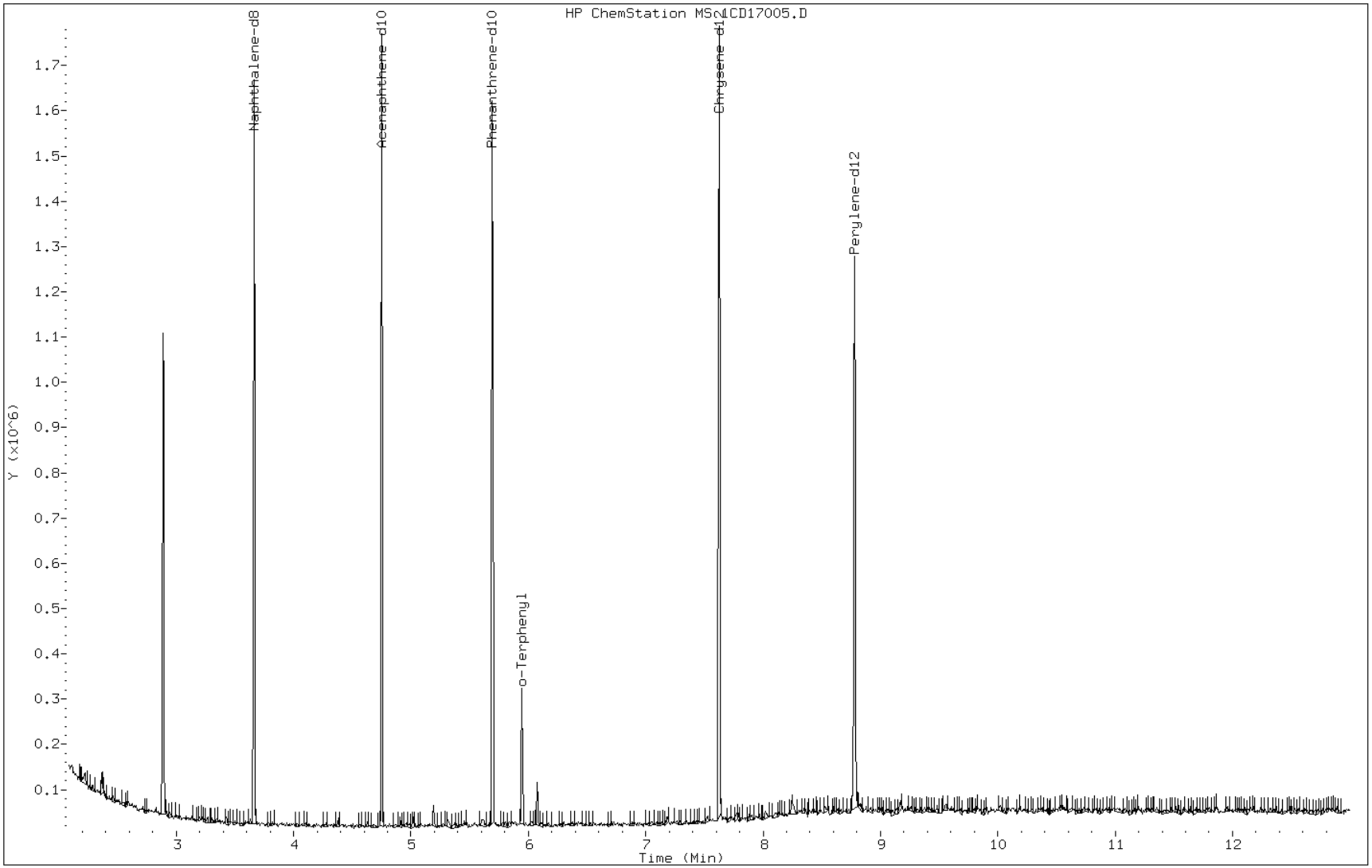
							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.663	3.663	(1.000)	254213	40.0000	
*	6 Acenaphthene-d10	164	4.751	4.751	(1.000)	165374	40.0000	
*	10 Phenanthrene-d10	188	5.692	5.698	(1.000)	306935	40.0000	
$	14 o-Terphenyl	230	5.945	5.945	(1.044)	27297	6.06021	402.9395
*	18 Chrysene-d12	240	7.627	7.627	(1.000)	368107	40.0000	
*	23 Perylene-d12	264	8.780	8.780	(1.000)	383045	40.0000	

Data File: 1CD17005.D

Date: 17-APR-2013 10:54

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-136462/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: | Lab Sample ID: MB 660-136551/1-A

Matrix: Solid | Lab File ID: 1CD19012.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.12(g) | Date Analyzed: 04/19/2013 14:23

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.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19012.D
Lab Smp Id: MB 660-136551/1-A
Inj Date : 19-APR-2013 14:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : MB 660-136551/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 12 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	15.120	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

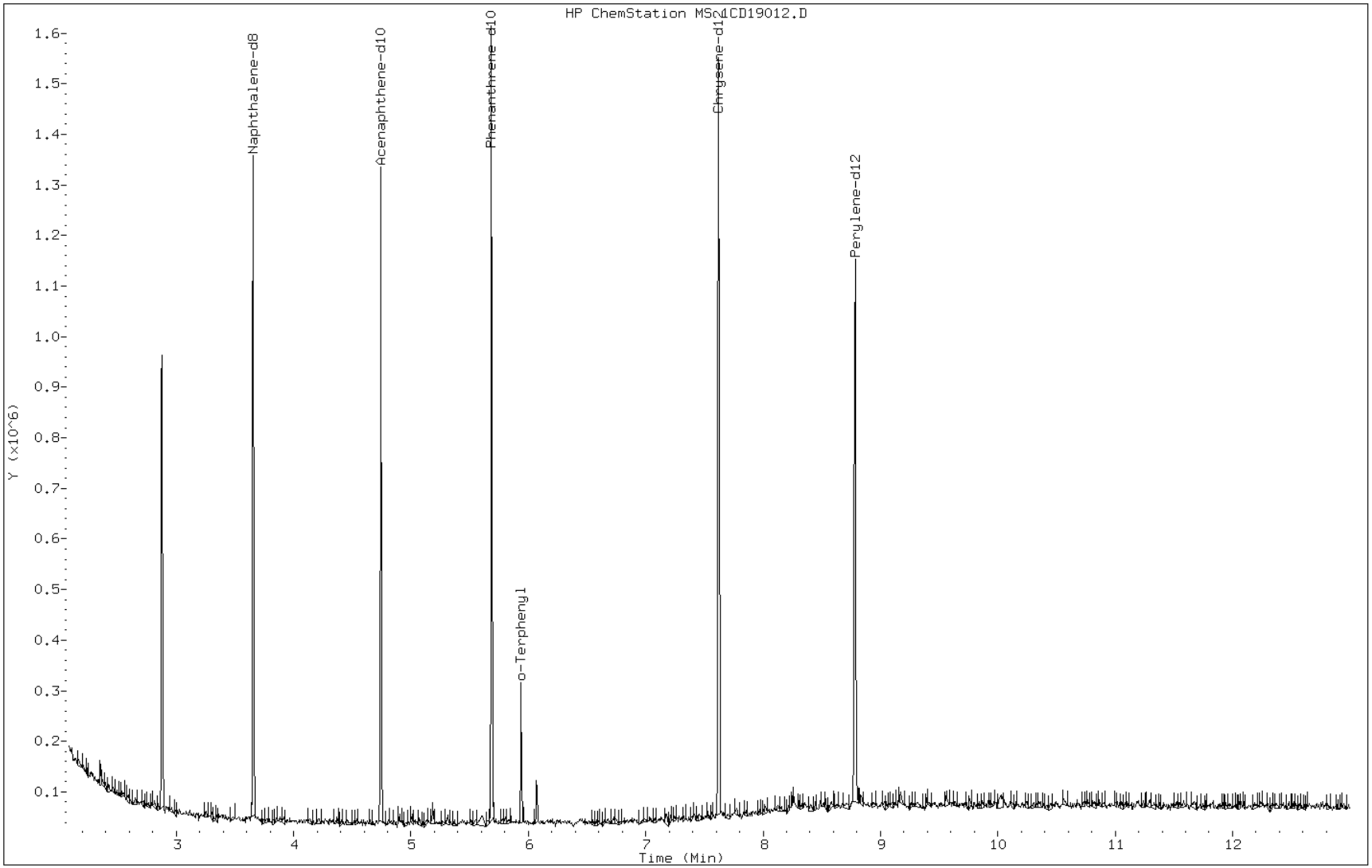
							CONCENTRATIONS	
		QUANT SIG					ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
*	1 Naphthalene-d8	136	3.657	3.657	(1.000)	211094	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.739	(1.000)	141041	40.0000	
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	261212	40.0000	
$	14 o-Terphenyl	230	5.939	5.933	(1.044)	21794	5.72808	378.8411
*	18 Chrysene-d12	240	7.621	7.615	(1.000)	295504	40.0000	
*	23 Perylene-d12	264	8.786	8.768	(1.000)	333814	40.0000	

Data File: 1CD19012.D

Date: 19-APR-2013 14:23

Client ID: Instrument: BSMC5973.i

Sample Info: MB 660-136551/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: | Lab Sample ID: MB 660-136604/1-A

Matrix: Solid | Lab File ID: 1DD22005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.38(g) | Date Analyzed: 04/22/2013 11:30

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

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

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

Analysis Batch No.: 136733 | 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	5.9
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	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22005.D
Lab Smp Id: MB 660-136604/1-A
Inj Date : 22-APR-2013 11:30
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-136604/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/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	15.380	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

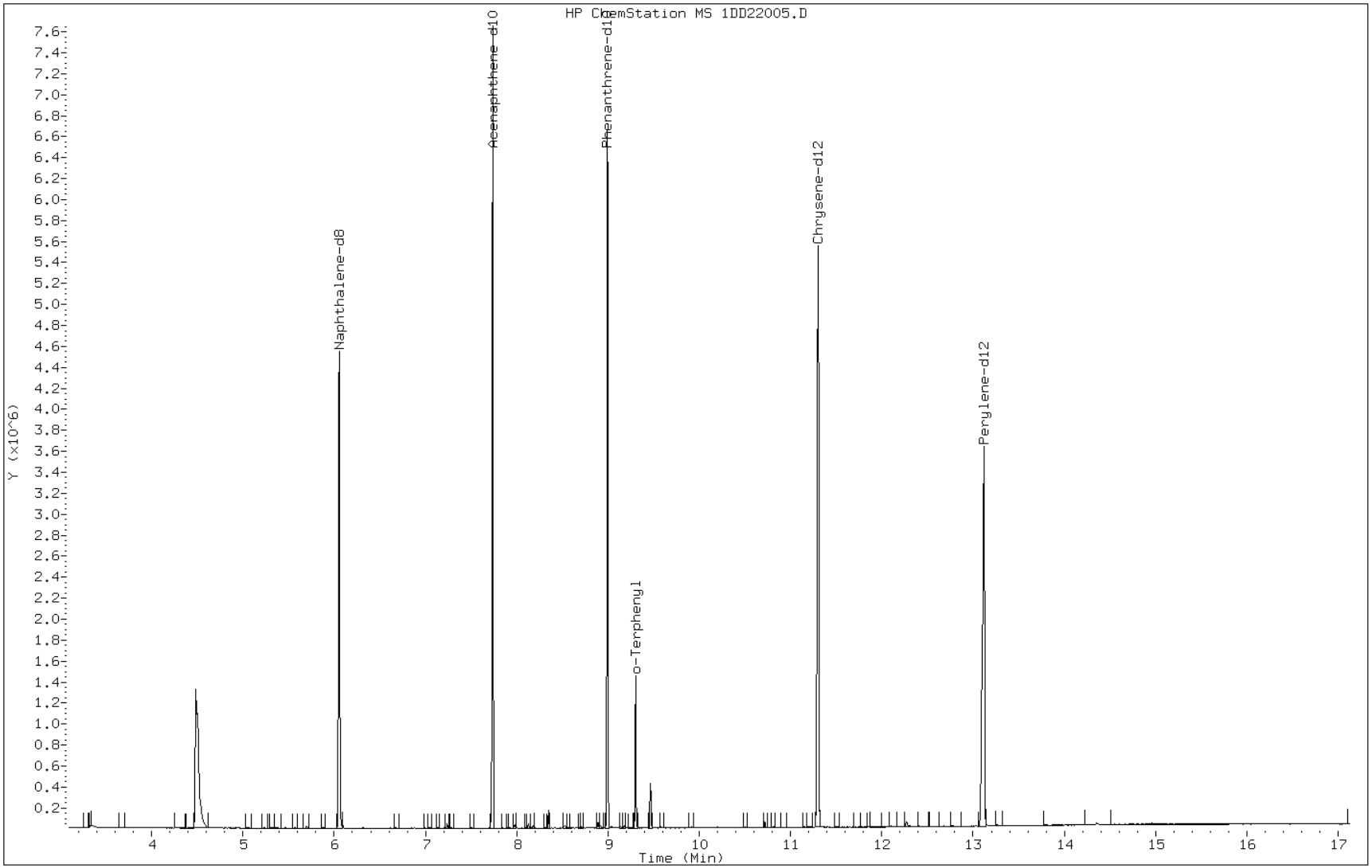
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	6.055	6.054	(1.000)	2232943	40.0000	
*	6 Acenaphthene-d10	164	7.736	7.734	(1.000)	1323504	40.0000	
*	9 Phenanthrene-d10	188	8.993	8.998	(1.000)	2206229	40.0000	
$	13 o-Terphenyl	230	9.304	9.309	(1.035)	208113	6.26053	410
*	17 Chrysene-d12	240	11.302	11.307	(1.000)	2159386	40.0000	
*	22 Perylene-d12	264	13.118	13.122	(1.000)	2217702	40.0000	

Data File: 1DD22005.D

Date: 22-APR-2013 11:30

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-136604/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: | Lab Sample ID: LCS 660-136462/2-A

Matrix: Solid | Lab File ID: 1CD17006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/16/2013 07:00

Sample wt/vol: 15.21(g) | Date Analyzed: 04/17/2013 11:13

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.: 136590 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	354		99	20
208-96-8	Acenaphthylene	363		39	4.9
120-12-7	Anthracene	424		8.3	4.1
56-55-3	Benzo[a]anthracene	398		7.9	3.8
50-32-8	Benzo[a]pyrene	358		10	5.1
205-99-2	Benzo[b]fluoranthene	432		12	6.0
191-24-2	Benzo[g,h,i]perylene	399		20	4.3
207-08-9	Benzo[k]fluoranthene	380		7.9	3.6
218-01-9	Chrysene	402		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	426		20	4.0
206-44-0	Fluoranthene	381		20	3.9
86-73-7	Fluorene	395		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	392		20	7.0
90-12-0	1-Methylnaphthalene	392		39	4.3
91-57-6	2-Methylnaphthalene	388		39	7.0
91-20-3	Naphthalene	381		39	4.3
85-01-8	Phenanthrene	391		7.9	3.8
129-00-0	Pyrene	394		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17006.D
Lab Smp Id: lcs 660-136462/2-a
Inj Date : 17-APR-2013 11:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-136462/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m
Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.210	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	3.663	3.663	(1.000)	268152	40.0000	
* 6	Acenaphthene-d10	164	4.751	4.751	(1.000)	186703	40.0000	
* 10	Phenanthrene-d10	188	5.692	5.698	(1.000)	330770	40.0000	
$ 14	o-Terphenyl	230	5.945	5.945	(1.044)	31120	6.37117	418.8804
* 18	Chrysene-d12	240	7.627	7.627	(1.000)	411865	40.0000	
* 23	Perylene-d12	264	8.780	8.780	(1.000)	415510	40.0000	
2	Naphthalene	128	3.674	3.680	(1.003)	41957	5.78832	380.5599
3	2-Methylnaphthalene	142	4.104	4.104	(1.120)	27271	5.89815	387.7809
4	1-Methylnaphthalene	142	4.163	4.168	(1.136)	27574	5.95537	391.5430
5	Acenaphthylene	152	4.663	4.663	(0.981)	43708	5.52476	363.2317
7	Acenaphthene	154	4.768	4.774	(1.004)	25654	5.38081	353.7677
9	Fluorene	166	5.092	5.092	(1.072)	36462	6.00966	395.1127
11	Phenanthrene	178	5.710	5.709	(1.003)	57681	5.94937	391.1486
12	Anthracene	178	5.745	5.745	(1.009)	61955	6.45189	424.1873

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.851	5.851	(1.028)	61819	6.91225	454.4546
15 Fluoranthene	202	6.539	6.545	(1.149)	62129	5.79008	380.6758
16 Pyrene	202	6.710	6.709	(0.880)	70278	5.99789	394.3383
17 Benzo(a)anthracene	228	7.615	7.621	(0.998)	70484	6.05183	397.8846
19 Chrysene	228	7.645	7.651	(1.002)	70498	6.11881	402.2884
20 Benzo(b)fluoranthene	252	8.445	8.450	(0.962)	68924	6.56749	431.7877
21 Benzo(k)fluoranthene	252	8.468	8.468	(0.964)	68665	5.78215	380.1542
22 Benzo(a)pyrene	252	8.727	8.733	(0.994)	59013	5.43987	357.6509
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.903	(1.127)	57362	5.96175	391.9627(M)
25 Dibenzo(a,h)anthracene	278	9.903	9.915	(1.128)	64105	6.47195	425.5063
26 Benzo(g,h,i)perylene	276	10.227	10.233	(1.165)	61703	6.06829	398.9673

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD17006.D

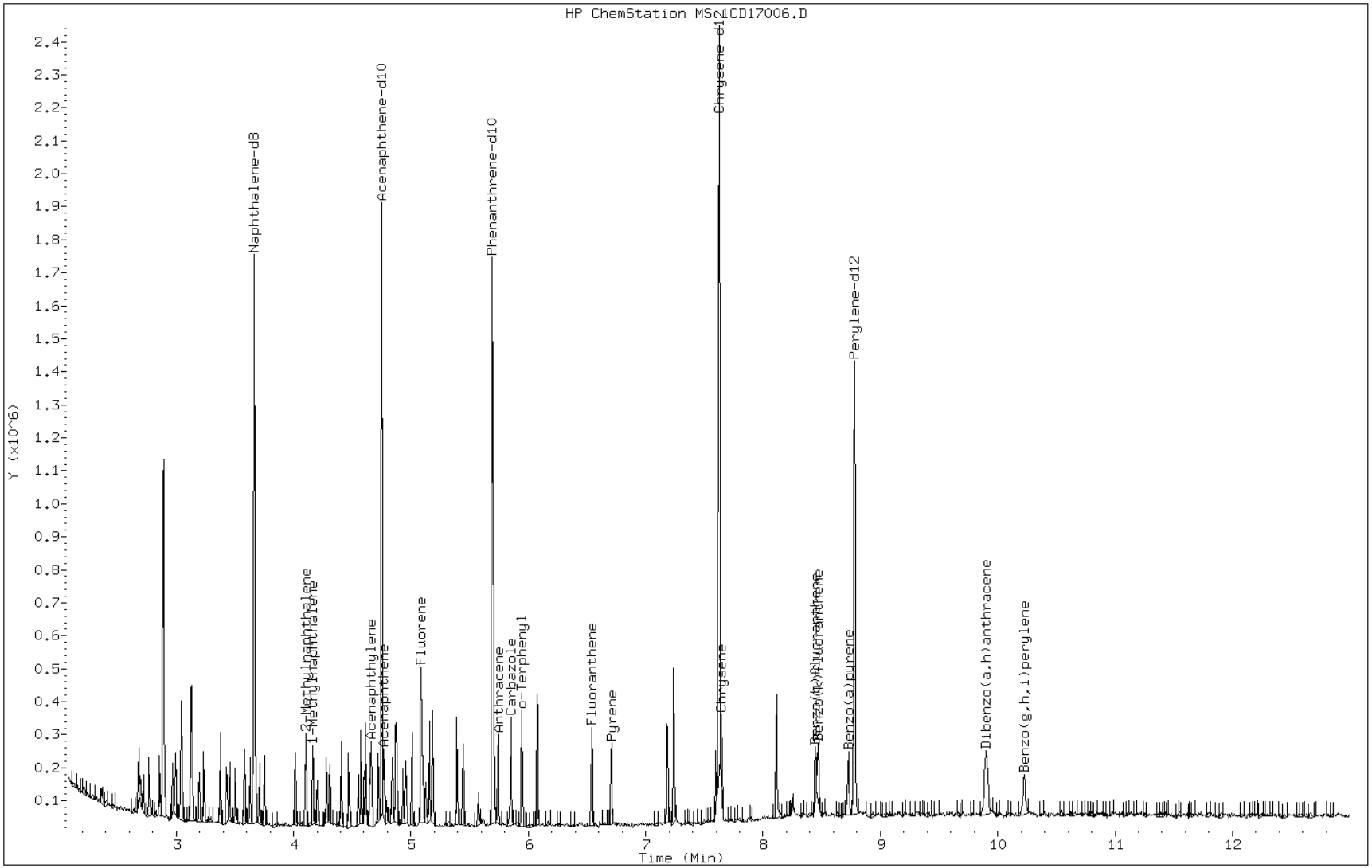
Date: 17-APR-2013 11:13

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136462/2-a

Operator: SCC



Manual Integration Report

Data File: 1CD17006.D
Inj. Date and Time: 17-APR-2013 11:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/18/2013

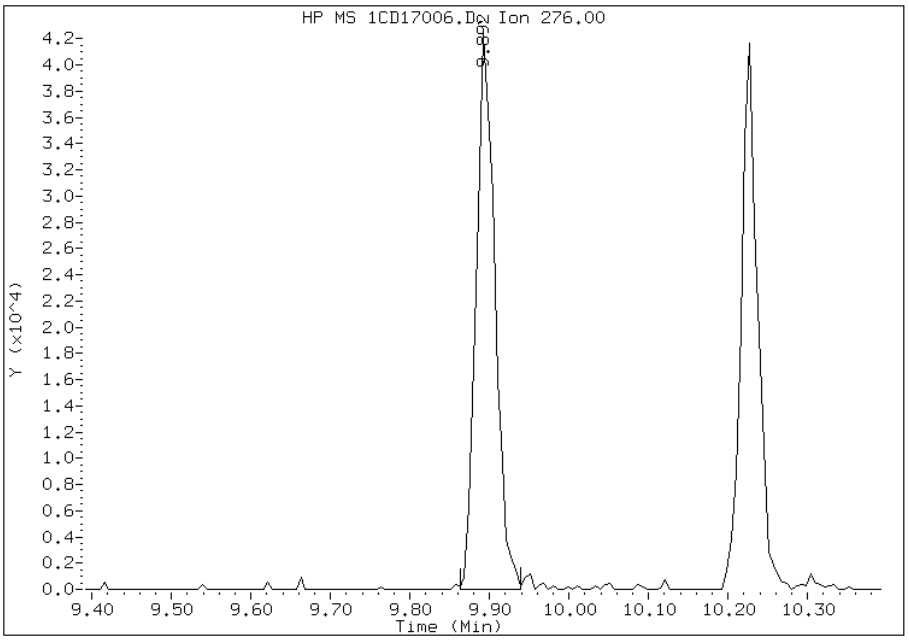
Processing Integration Results

RT: 9.89

Response: 69251

Amount: 7

Conc: 464



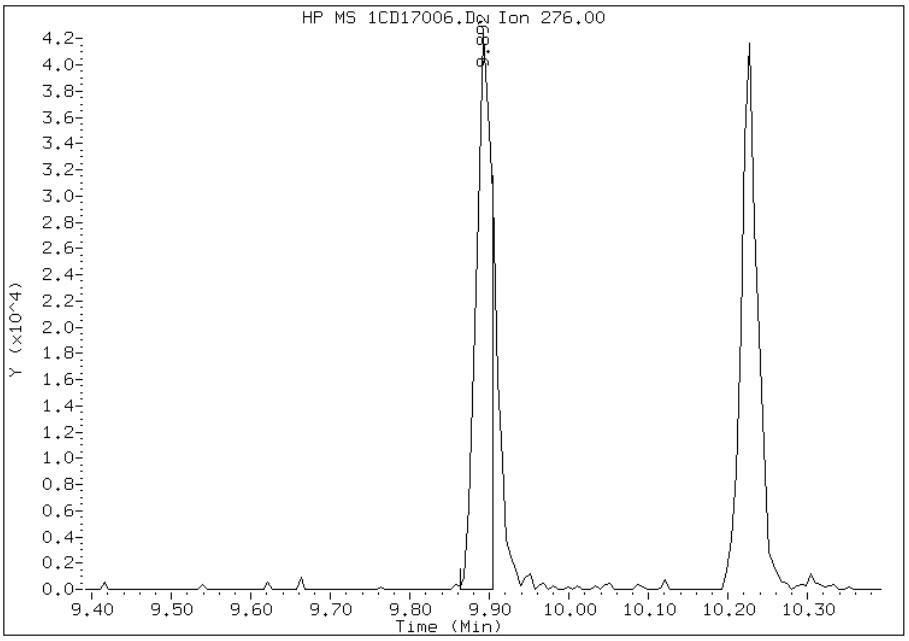
Manual Integration Results

RT: 9.89

Response: 57362

Amount: 6

Conc: 392



Manually Integrated By: cantins
Modification Date: 17-Apr-2013 15:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: | Lab Sample ID: LCS 660-136551/2-A

Matrix: Solid | Lab File ID: 1CD19013.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 15.08(g) | Date Analyzed: 04/19/2013 14:42

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.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	524		99	20
208-96-8	Acenaphthylene	490		40	5.0
120-12-7	Anthracene	540		8.4	4.2
56-55-3	Benzo[a]anthracene	569		8.0	3.9
50-32-8	Benzo[a]pyrene	435		10	5.2
205-99-2	Benzo[b]fluoranthene	519		12	6.1
191-24-2	Benzo[g,h,i]perylene	483		20	4.4
207-08-9	Benzo[k]fluoranthene	563		8.0	3.6
218-01-9	Chrysene	567		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	544		20	4.1
206-44-0	Fluoranthene	525		20	4.0
86-73-7	Fluorene	494		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	536		20	7.1
90-12-0	1-Methylnaphthalene	461		40	4.4
91-57-6	2-Methylnaphthalene	473		40	7.1
91-20-3	Naphthalene	495		40	4.4
85-01-8	Phenanthrene	505		8.0	3.9
129-00-0	Pyrene	495		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19013.D
Lab Smp Id: LCS 660-136551/2-A
Inj Date : 19-APR-2013 14:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : LCS 660-136551/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 13 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	15.080	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	3.657	3.657	(1.000)	191532	40.0000	
* 6	Acenaphthene-d10	164	4.739	4.739	(1.000)	127190	40.0000	
* 10	Phenanthrene-d10	188	5.686	5.686	(1.000)	236731	40.0000	
$ 14	o-Terphenyl	230	5.933	5.933	(1.043)	26335	7.40748	491.2124
* 18	Chrysene-d12	240	7.615	7.615	(1.000)	297661	40.0000	
* 23	Perylene-d12	264	8.768	8.768	(1.000)	312222	40.0000	
2	Naphthalene	128	3.669	3.669	(1.003)	38667	7.46841	495.2525
3	2-Methylnaphthalene	142	4.092	4.092	(1.119)	23736	7.12763	472.6545
4	1-Methylnaphthalene	142	4.157	4.157	(1.137)	23006	6.95648	461.3052
5	Acenaphthylene	152	4.651	4.657	(0.981)	39807	7.38601	489.7884
7	Acenaphthene	154	4.763	4.763	(1.005)	25670	7.90345	524.1012
9	Fluorene	166	5.080	5.080	(1.072)	30782	7.44740	493.8596
11	Phenanthrene	178	5.698	5.698	(1.002)	52858	7.61979	505.2912
12	Anthracene	178	5.733	5.733	(1.008)	56005	8.14908	540.3896

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.845	5.845	(1.028)	53776	8.40151	557.1291
15 Fluoranthene	202	6.533	6.533	(1.149)	60806	7.91786	525.0567
16 Pyrene	202	6.698	6.698	(0.880)	63182	7.46114	494.7705
17 Benzo(a)anthracene	228	7.610	7.610	(0.999)	72269	8.58580	569.3502
19 Chrysene	228	7.633	7.639	(1.002)	71229	8.55421	567.2551
20 Benzo(b)fluoranthene	252	8.439	8.439	(0.962)	61761	7.83180	519.3498
21 Benzo(k)fluoranthene	252	8.457	8.457	(0.964)	75793	8.49377	563.2476
22 Benzo(a)pyrene	252	8.715	8.715	(0.994)	53416	6.55285	434.5391
24 Indeno(1,2,3-cd)pyrene	276	9.880	9.880	(1.127)	60307	8.08612	536.2145(M)
25 Dibenzo(a,h)anthracene	278	9.898	9.892	(1.129)	62001	8.20193	543.8945
26 Benzo(g,h,i)perylene	276	10.215	10.209	(1.165)	55607	7.27793	482.6211

QC Flag Legend

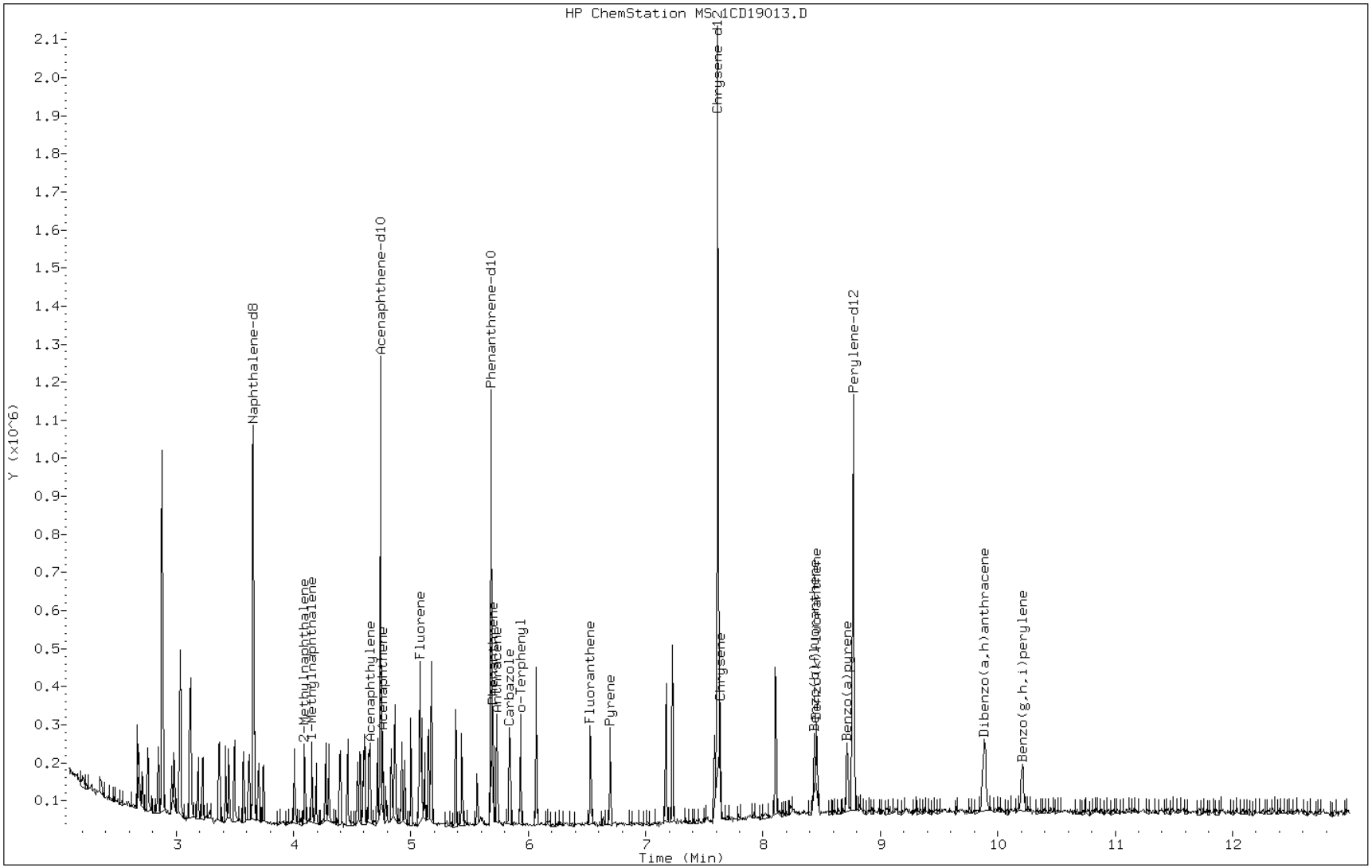
M - Compound response manually integrated.

Data File: 1CD19013.D

Date: 19-APR-2013 14:42

Client ID: Instrument: BSMC5973.i

Sample Info: LCS 660-136551/2-A Operator: SCC



Manual Integration Report

Data File: 1CD19013.D
Inj. Date and Time: 19-APR-2013 14:42
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

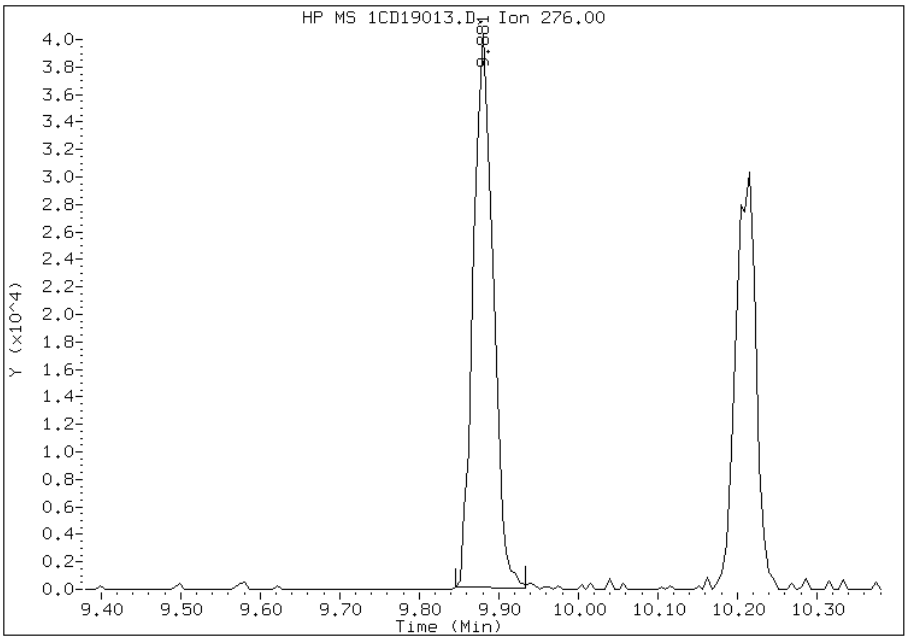
Processing Integration Results

RT: 9.88

Response: 69015

Amount: 9

Conc: 608



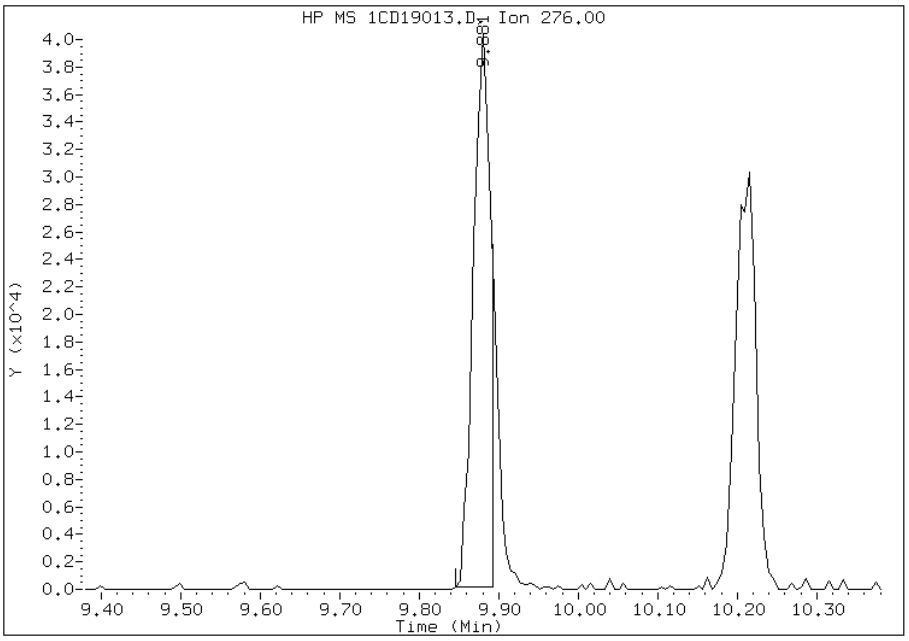
Manual Integration Results

RT: 9.88

Response: 60307

Amount: 8

Conc: 536



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: | Lab Sample ID: LCS 660-136604/2-A

Matrix: Solid | Lab File ID: 1DD22006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.16(g) | Date Analyzed: 04/22/2013 11:53

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.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	450		99	20
208-96-8	Acenaphthylene	469		40	4.9
120-12-7	Anthracene	453		8.3	4.2
56-55-3	Benzo[a]anthracene	476		7.9	3.9
50-32-8	Benzo[a]pyrene	427		10	5.1
205-99-2	Benzo[b]fluoranthene	482		12	6.0
191-24-2	Benzo[g,h,i]perylene	480		20	4.4
207-08-9	Benzo[k]fluoranthene	482		7.9	3.6
218-01-9	Chrysene	459		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	501		20	4.1
206-44-0	Fluoranthene	479		20	4.0
86-73-7	Fluorene	481		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	481		20	7.0
90-12-0	1-Methylnaphthalene	467		40	4.4
91-57-6	2-Methylnaphthalene	455		40	7.0
91-20-3	Naphthalene	440		40	4.4
85-01-8	Phenanthrene	444		7.9	3.9
129-00-0	Pyrene	448		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22006.D
Lab Smp Id: LCS 660-136604/2-A
Inj Date : 22-APR-2013 11:53
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-136604/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/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	15.160	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/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.051	6.054	(1.000)	1931895	40.0000	
* 6	Acenaphthene-d10	164	7.737	7.734	(1.000)	1141255	40.0000	
* 9	Phenanthrene-d10	188	8.994	8.998	(1.000)	1907584	40.0000	
$ 13	o-Terphenyl	230	9.306	9.309	(1.035)	198982	6.92297	460
* 17	Chrysene-d12	240	11.303	11.307	(1.000)	1920971	40.0000	
* 22	Perylene-d12	264	13.119	13.122	(1.000)	1914100	40.0000	
2	Naphthalene	128	6.074	6.077	(1.004)	320453	6.67357	440
3	2-Methylnaphthalene	142	6.779	6.783	(1.120)	213795	6.89722	450
4	1-Methylnaphthalene	142	6.873	6.877	(1.136)	207428	7.08617	470
5	Acenaphthylene	152	7.608	7.611	(0.983)	343399	7.10929	470
7	Acenaphthene	154	7.760	7.764	(1.003)	203580	6.82793	450
8	Fluorene	166	8.201	8.204	(1.060)	257419	7.29070	480
10	Phenanthrene	178	9.012	9.015	(1.002)	353481	6.72736	440
11	Anthracene	178	9.053	9.056	(1.007)	358478	6.87382	450

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.194	9.197	(1.022)	290517	6.31550	420
14 Fluoranthene	202	9.993	10.002	(1.111)	392320	7.25577	480
15 Pyrene	202	10.181	10.184	(0.901)	391971	6.79483	450
16 Benzo(a)anthracene	228	11.286	11.289	(0.998)	400828	7.21704	480
18 Chrysene	228	11.327	11.330	(1.002)	362453	6.96008	460
19 Benzo(b)fluoranthene	252	12.572	12.582	(0.958)	349587	7.31129	480
20 Benzo(k)fluoranthene	252	12.608	12.623	(0.961)	368258	7.31063	480
21 Benzo(a)pyrene	252	13.019	13.034	(0.992)	310643	6.46599	430
23 Indeno(1,2,3-cd)pyrene	276	14.688	14.709	(1.120)	373399	7.28901	480(M)
24 Dibenzo(a,h)anthracene	278	14.717	14.732	(1.122)	366455	7.59645	500
25 Benzo(g,h,i)perylene	276	15.116	15.143	(1.152)	358749	7.27315	480

QC Flag Legend

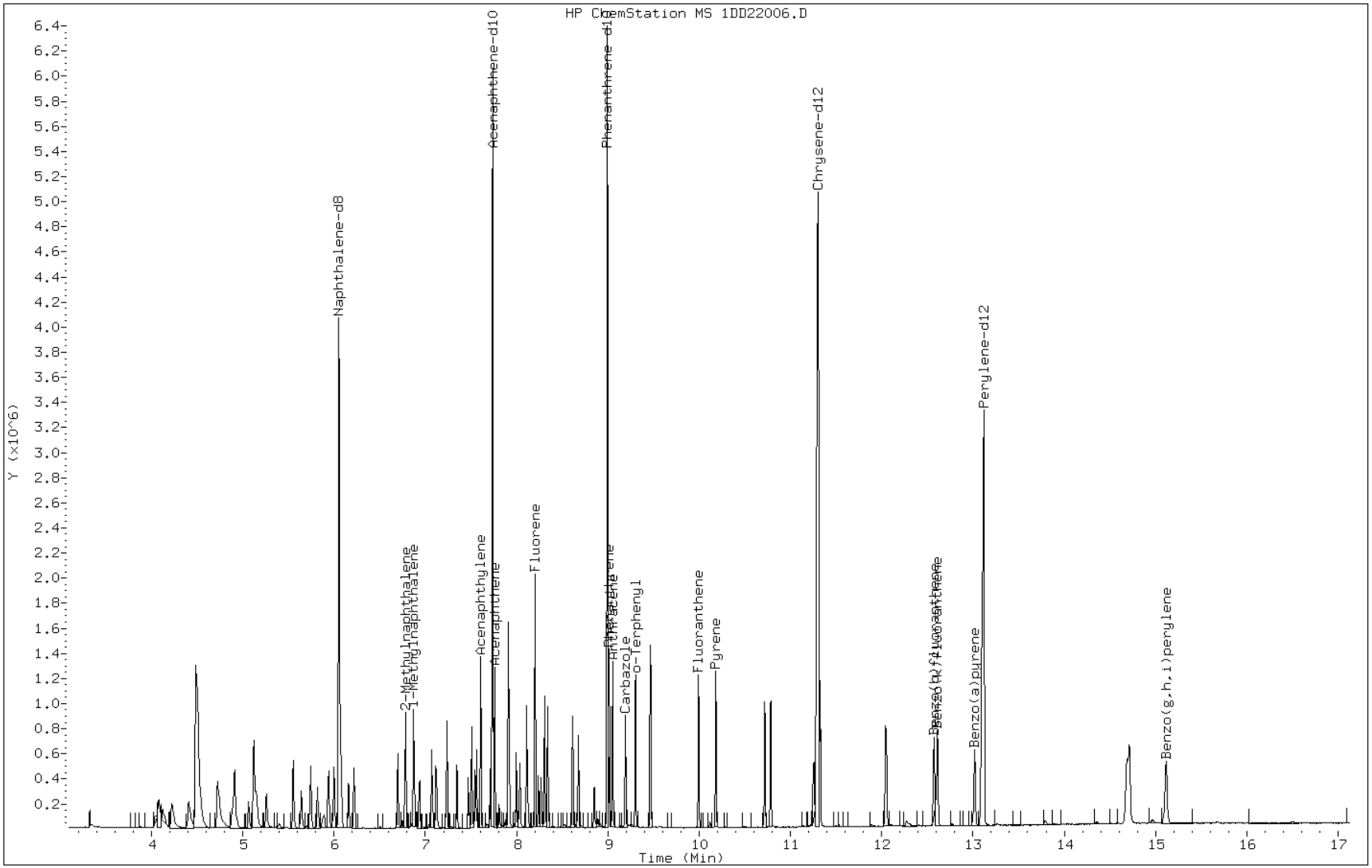
M - Compound response manually integrated.

Data File: 1DD22006.D

Date: 22-APR-2013 11:53

Client ID: Instrument: BSMSD.i

Sample Info: LCS 660-136604/2-A Operator: SCC



Manual Integration Report

Data File: 1DD22006.D
Inj. Date and Time: 22-APR-2013 11:53
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

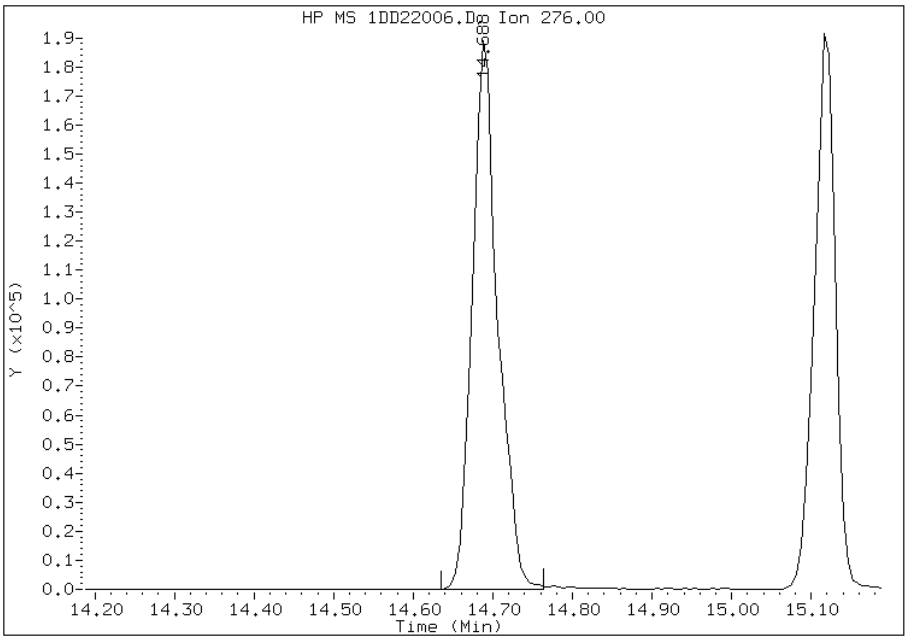
Processing Integration Results

RT: 14.69

Response: 420841

Amount: 8

Conc: 542



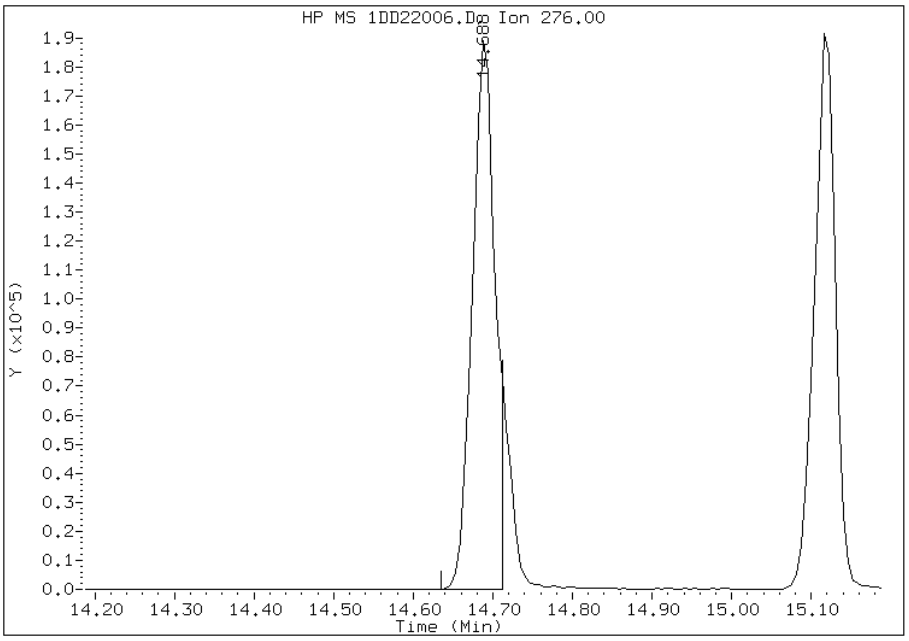
Manual Integration Results

RT: 14.69

Response: 373399

Amount: 7

Conc: 481



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: | Lab Sample ID: 680-89275-A-2-B MS

Matrix: Solid | Lab File ID: 1CD17008.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/16/2013 07:00

Sample wt/vol: 14.96(g) | Date Analyzed: 04/17/2013 11:49

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

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

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

Analysis Batch No.: 136590 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	342		130	25
208-96-8	Acenaphthylene	376		50	6.3
120-12-7	Anthracene	367		11	5.3
56-55-3	Benzo[a]anthracene	608		10	4.9
50-32-8	Benzo[a]pyrene	496		13	6.6
205-99-2	Benzo[b]fluoranthene	747		15	7.7
191-24-2	Benzo[g,h,i]perylene	440		25	5.5
207-08-9	Benzo[k]fluoranthene	482		10	4.5
218-01-9	Chrysene	686		11	5.7
53-70-3	Dibenz(a,h)anthracene	347		25	5.2
206-44-0	Fluoranthene	634		25	5.0
86-73-7	Fluorene	368		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	432		25	8.9
90-12-0	1-Methylnaphthalene	681		50	5.5
91-57-6	2-Methylnaphthalene	648		50	8.9
91-20-3	Naphthalene	539		50	5.5
85-01-8	Phenanthrene	668		10	4.9
129-00-0	Pyrene	673		25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	36		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17008.D
Lab Smp Id: 680-89275-a-2-b ms
Inj Date : 17-APR-2013 11:49
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89275-a-2-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m
Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 8 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	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.663	3.663	(1.000)	362237	40.0000	
*	6 Acenaphthene-d10	164	4.751	4.751	(1.000)	252903	40.0000	
*	10 Phenanthrene-d10	188	5.698	5.698	(1.000)	460657	40.0000	
$	14 o-Terphenyl	230	5.945	5.945	(1.043)	22423	3.62911	242.5875
*	18 Chrysene-d12	240	7.633	7.627	(1.000)	538817	40.0000	
*	23 Perylene-d12	264	8.786	8.780	(1.000)	516343	40.0000	
	2 Naphthalene	128	3.680	3.680	(1.005)	62801	6.41361	428.7173
	3 2-Methylnaphthalene	142	4.104	4.104	(1.120)	48758	7.71813	515.9179
	4 1-Methylnaphthalene	142	4.169	4.168	(1.138)	50708	8.10725	541.9285
	5 Acenaphthylene	152	4.663	4.663	(0.981)	47914	4.47107	298.8686
	7 Acenaphthene	154	4.774	4.774	(1.005)	26331	4.07715	272.5369
	9 Fluorene	166	5.092	5.092	(1.072)	35959	4.37537	292.4711
	11 Phenanthrene	178	5.710	5.709	(1.002)	107339	7.95240	531.5778
	12 Anthracene	178	5.745	5.745	(1.008)	58463	4.37160	292.2190

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.851	5.851	(1.027)	46216	3.71055	248.0315(R)
15 Fluoranthene	202	6.545	6.545	(1.149)	112735	7.54393	504.2730
16 Pyrene	202	6.710	6.709	(0.879)	122729	8.00644	535.1900
17 Benzo(a)anthracene	228	7.621	7.621	(0.998)	110288	7.23832	483.8448
19 Chrysene	228	7.651	7.651	(1.002)	123158	8.17083	546.1785
20 Benzo(b)fluoranthene	252	8.451	8.450	(0.962)	115971	8.89245	594.4153
21 Benzo(k)fluoranthene	252	8.474	8.468	(0.965)	84697	5.73938	383.6483
22 Benzo(a)pyrene	252	8.733	8.733	(0.994)	79672	5.91003	395.0555
24 Indeno(1,2,3-cd)pyrene	276	9.903	9.903	(1.127)	60360	5.14624	343.9999(M)
25 Dibenzo(a,h)anthracene	278	9.915	9.915	(1.129)	48714	4.13134	276.1590
26 Benzo(g,h,i)perylene	276	10.239	10.233	(1.165)	66194	5.23868	350.1793

QC Flag Legend

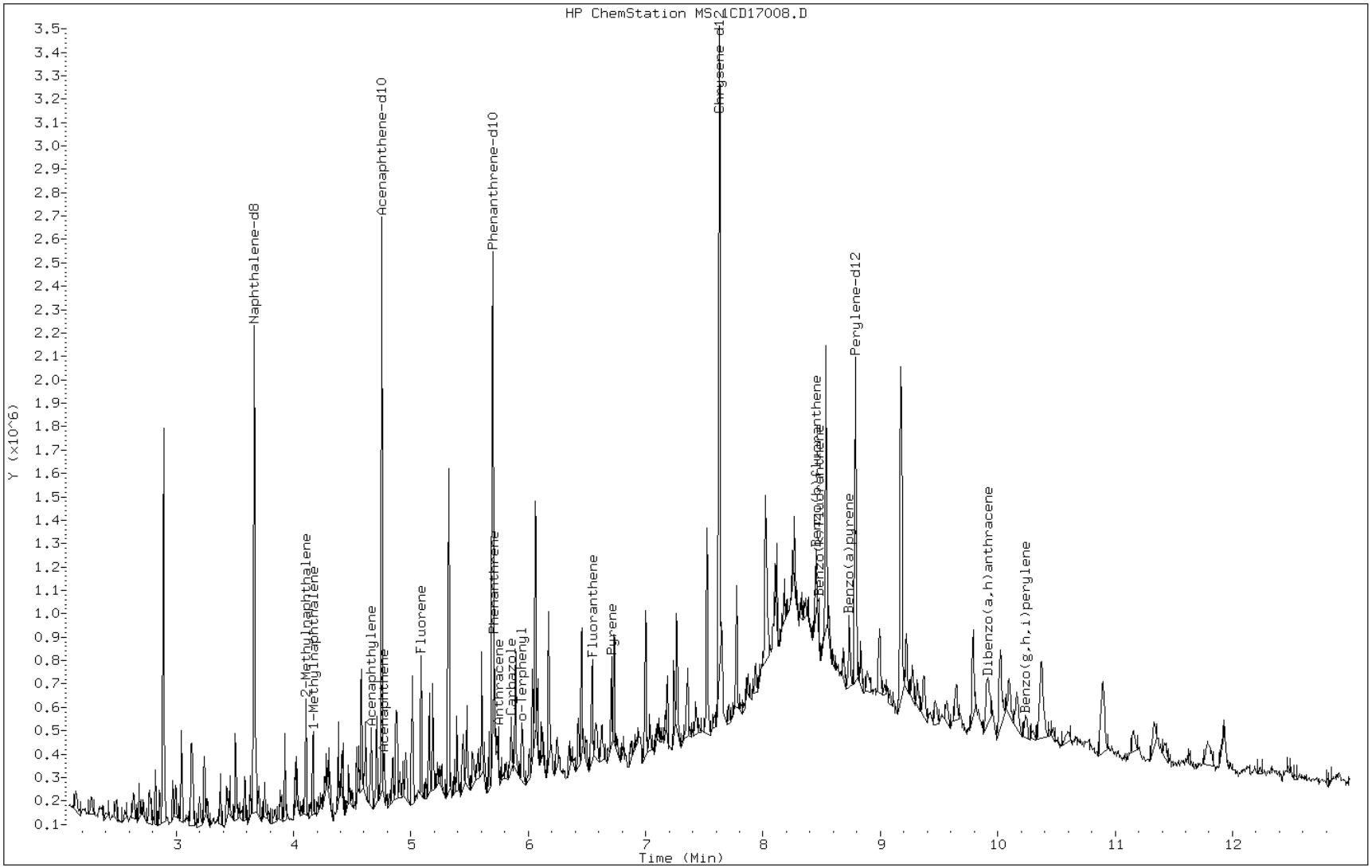
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD17008.D

Date: 17-APR-2013 11:49

Client ID: Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-b ms Operator: SCC



Manual Integration Report

Data File: 1CD17008.D
Inj. Date and Time: 17-APR-2013 11:49
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/18/2013

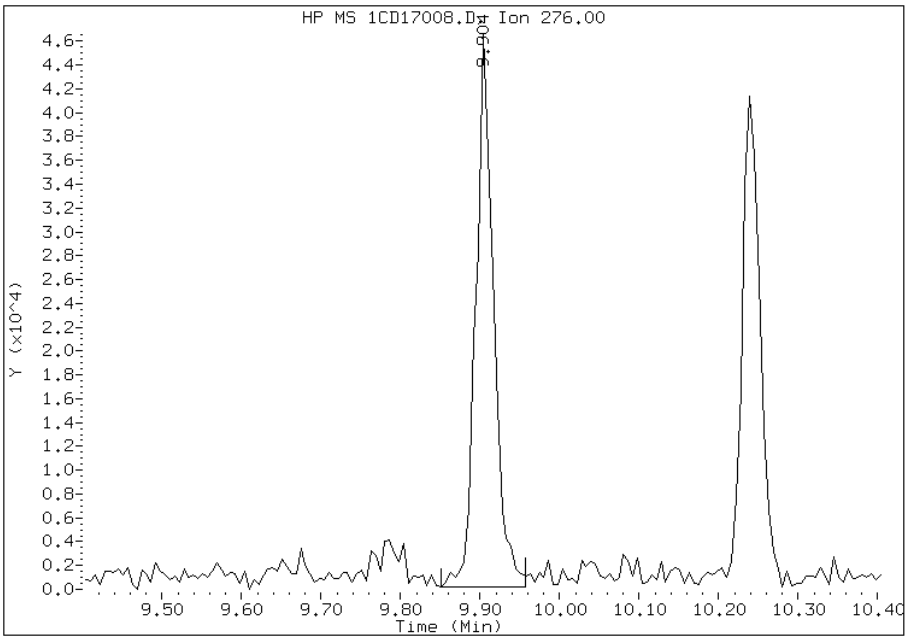
Processing Integration Results

RT: 9.90

Response: 71931

Amount: 6

Conc: 402



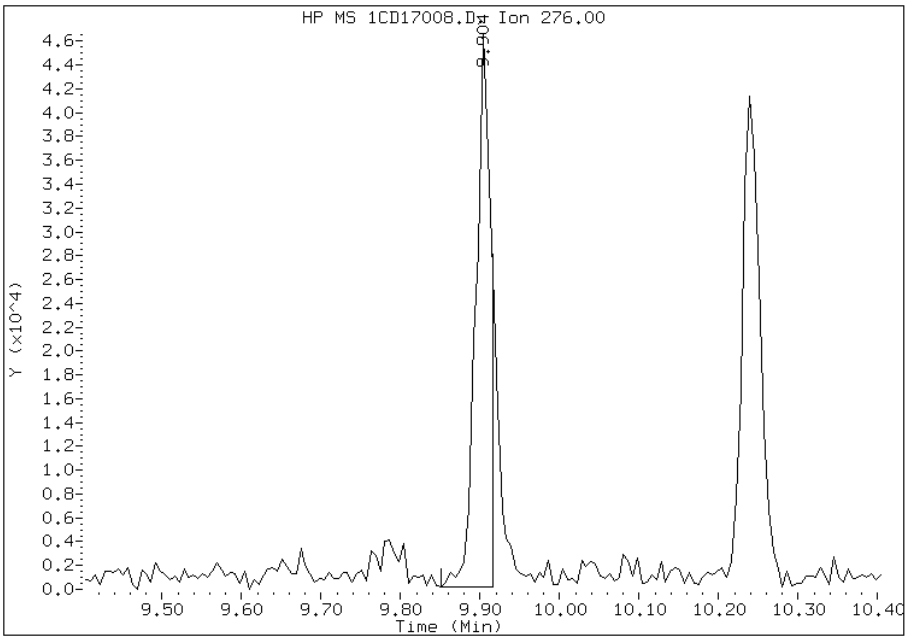
Manual Integration Results

RT: 9.90

Response: 60360

Amount: 5

Conc: 344



Manually Integrated By: cantins
Modification Date: 17-Apr-2013 15:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: | Lab Sample ID: 680-89220-A-41-B MS

Matrix: Solid | Lab File ID: 1CD19019.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 14.95(g) | Date Analyzed: 04/19/2013 16:39

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

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

% Moisture: 39.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	755		170	33
208-96-8	Acenaphthylene	765		67	8.3
120-12-7	Anthracene	845		14	7.0
56-55-3	Benzo[a]anthracene	880		13	6.5
50-32-8	Benzo[a]pyrene	795		17	8.7
205-99-2	Benzo[b]fluoranthene	1160		20	10
191-24-2	Benzo[g,h,i]perylene	729		33	7.3
207-08-9	Benzo[k]fluoranthene	893		13	6.0
218-01-9	Chrysene	894		15	7.5
53-70-3	Dibenz(a,h)anthracene	610		33	6.8
206-44-0	Fluoranthene	1080		33	6.7
86-73-7	Fluorene	847		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	690		33	12
90-12-0	1-Methylnaphthalene	810		67	7.3
91-57-6	2-Methylnaphthalene	942		67	12
91-20-3	Naphthalene	899		67	7.3
85-01-8	Phenanthrene	999		13	6.5
129-00-0	Pyrene	941		33	6.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19019.D
Lab Smp Id: 680-89220-a-41-b ms
Inj Date : 19-APR-2013 16:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89220-a-41-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 19 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	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	3.657	3.657	(1.000)	214315	40.0000	
* 6	Acenaphthene-d10	164	4.739	4.739	(1.000)	156773	40.0000	
* 10	Phenanthrene-d10	188	5.686	5.686	(1.000)	278425	40.0000	
$ 14	o-Terphenyl	230	5.933	5.933	(1.043)	28002	6.76305	452.3779
* 18	Chrysene-d12	240	7.615	7.615	(1.000)	345195	40.0000	
* 23	Perylene-d12	264	8.768	8.768	(1.000)	316003	40.0000	
2	Naphthalene	128	3.669	3.669	(1.003)	46855	8.08783	540.9922
3	2-Methylnaphthalene	142	4.098	4.092	(1.121)	31770	8.47246	566.7200
4	1-Methylnaphthalene	142	4.157	4.157	(1.137)	26965	7.28682	487.4124
5	Acenaphthylene	152	4.657	4.657	(0.983)	45684	6.87696	459.9971
7	Acenaphthene	154	4.763	4.763	(1.005)	27168	6.78625	453.9299
9	Fluorene	166	5.080	5.080	(1.072)	38800	7.61590	509.4250
11	Phenanthrene	178	5.698	5.698	(1.002)	73307	8.98797	601.2020
12	Anthracene	178	5.733	5.733	(1.008)	61427	7.59955	508.3309

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.845	5.845	(1.028)	54308	7.21406	482.5454
15 Fluoranthene	202	6.533	6.533	(1.149)	87760	9.71638	649.9253
16 Pyrene	202	6.698	6.698	(0.880)	83105	8.46246	566.0505
17 Benzo(a)anthracene	228	7.609	7.610	(0.999)	77226	7.91133	529.1862
19 Chrysene	228	7.639	7.639	(1.003)	77651	8.04132	537.8810
20 Benzo(b)fluoranthene	252	8.433	8.439	(0.962)	83338	10.4415	698.4272
21 Benzo(k)fluoranthene	252	8.456	8.457	(0.964)	72500	8.02753	536.9585
22 Benzo(a)pyrene	252	8.715	8.715	(0.994)	58998	7.15103	478.3296
24 Indeno(1,2,3-cd)pyrene	276	9.874	9.880	(1.126)	45656	6.20956	415.3550(M)
25 Dibenzo(a,h)anthracene	278	9.892	9.892	(1.128)	40783	5.48701	367.0240
26 Benzo(g,h,i)perylene	276	10.215	10.209	(1.165)	50709	6.55746	438.6260

QC Flag Legend

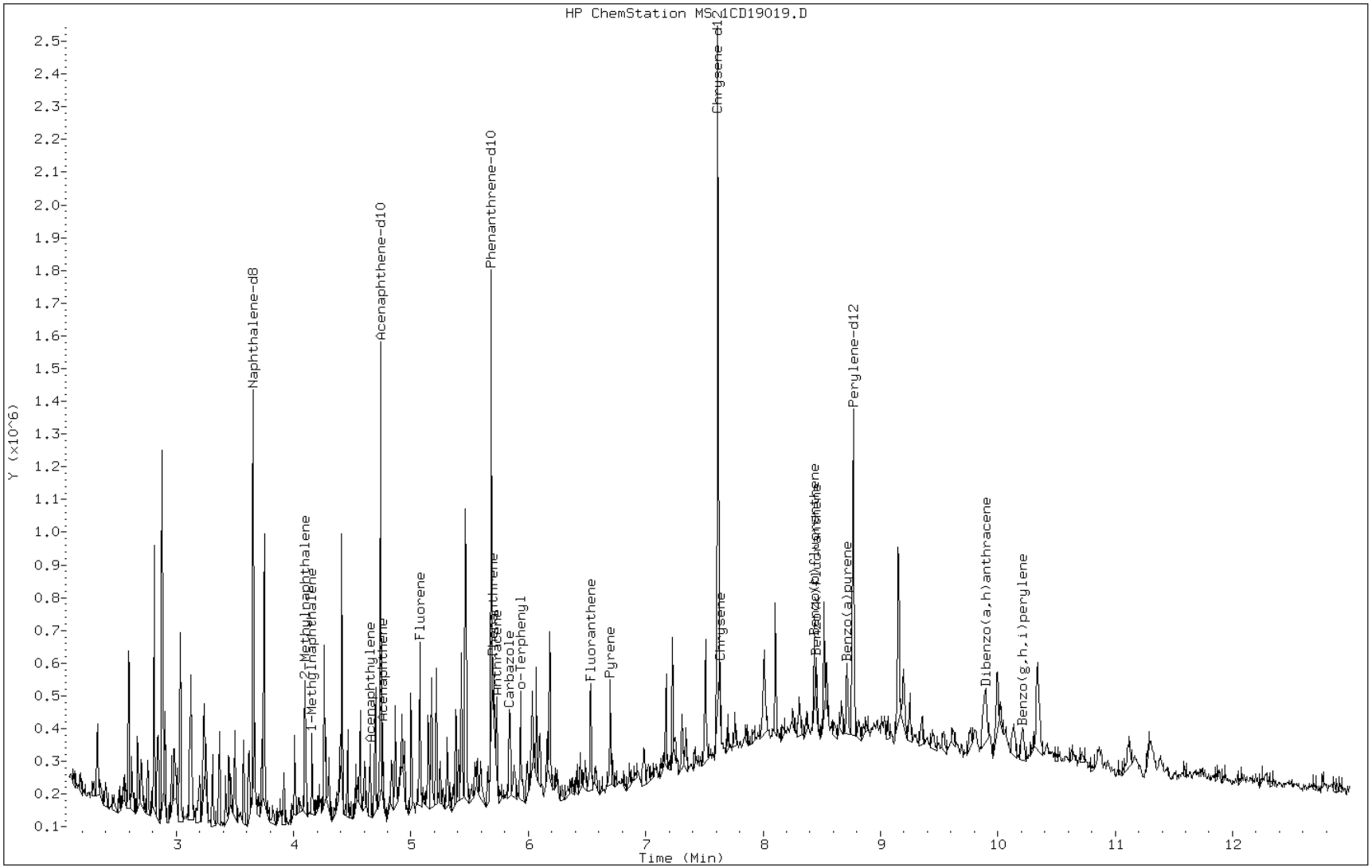
M - Compound response manually integrated.

Data File: 1CD19019.D

Date: 19-APR-2013 16:39

Client ID: Instrument: BSMC5973.i

Sample Info: 680-89220-a-41-b ms Operator: SCC



Manual Integration Report

Data File: 1CD19019.D
Inj. Date and Time: 19-APR-2013 16:39
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

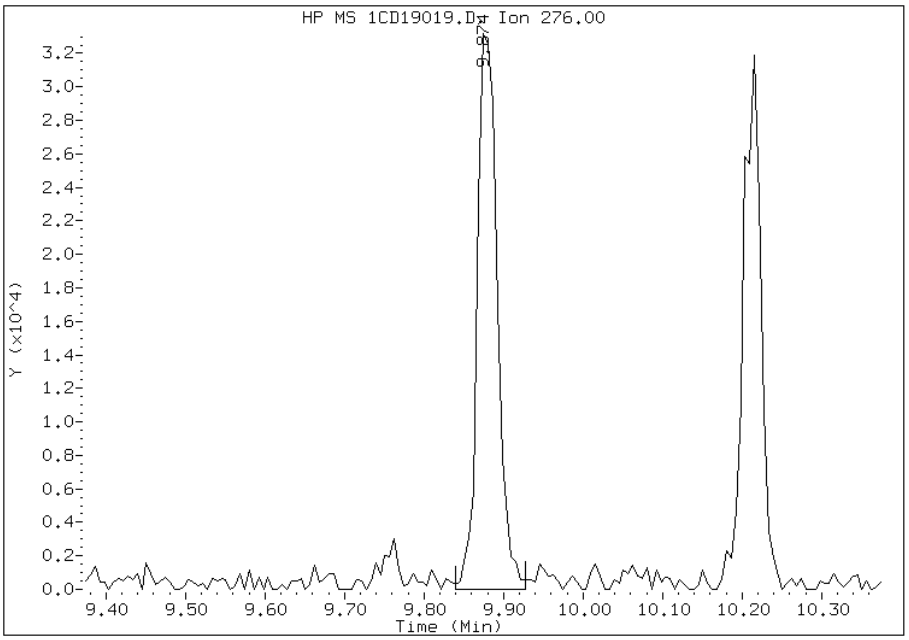
Processing Integration Results

RT: 9.87

Response: 57857

Amount: 8

Conc: 515



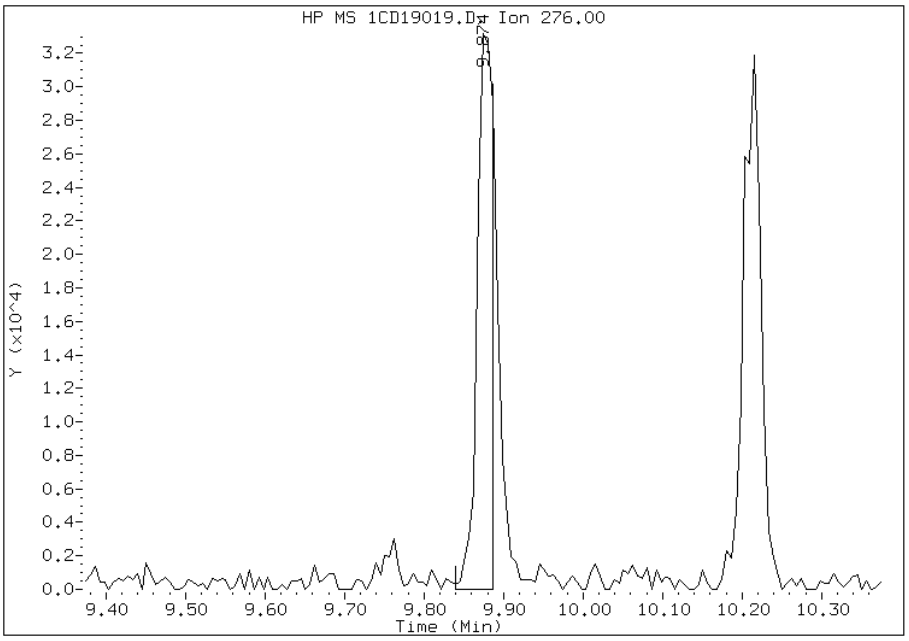
Manual Integration Results

RT: 9.87

Response: 45656

Amount: 6

Conc: 415



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: CV0661A-CS-SP MS | Lab Sample ID: 680-89275-21 MS

Matrix: Solid | Lab File ID: 1DD22008.D

Analysis Method: 8270C LL | Date Collected: 04/10/2013 08:55

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.39(g) | Date Analyzed: 04/22/2013 12:38

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

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

% Moisture: 25.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	478		130	26
208-96-8	Acenaphthylene	865		52	6.5
120-12-7	Anthracene	754		11	5.5
56-55-3	Benzo[a]anthracene	1430		10	5.1
50-32-8	Benzo[a]pyrene	1360		14	6.8
205-99-2	Benzo[b]fluoranthene	2150		16	7.9
191-24-2	Benzo[g,h,i]perylene	1150		26	5.7
207-08-9	Benzo[k]fluoranthene	1060		10	4.7
218-01-9	Chrysene	1470		12	5.9
53-70-3	Dibenz(a,h)anthracene	765		26	5.3
206-44-0	Fluoranthene	2060		26	5.2
86-73-7	Fluorene	512		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	1150		26	9.2
90-12-0	1-Methylnaphthalene	603		52	5.7
91-57-6	2-Methylnaphthalene	659		52	9.2
91-20-3	Naphthalene	832		52	5.7
85-01-8	Phenanthrene	1090		10	5.1
129-00-0	Pyrene	1510		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22008.D
Lab Smp Id: 680-89275-A-21-B MS
Inj Date : 22-APR-2013 12:38
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89275-A-21-B MS
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 8 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	15.390	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/l)	CONCENTRATIONS FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.054	6.054	(1.000)	2093932	40.0000	
* 6	Acenaphthene-d10	164	7.740	7.734	(1.000)	1246507	40.0000	
* 9	Phenanthrene-d10	188	8.998	8.998	(1.000)	2071815	40.0000	
$ 13	o-Terphenyl	230	9.303	9.309	(1.034)	167283	5.35875	350
* 17	Chrysene-d12	240	11.313	11.307	(1.000)	2259125	40.0000	
* 22	Perylene-d12	264	13.146	13.122	(1.000)	2571607	40.0000	
2	Naphthalene	128	6.078	6.077	(1.004)	498993	9.58758	620
3	2-Methylnaphthalene	142	6.783	6.783	(1.120)	255054	7.59153	490
4	1-Methylnaphthalene	142	6.877	6.877	(1.136)	220606	6.95317	450
5	Acenaphthylene	152	7.611	7.611	(0.983)	526149	9.97296	650
7	Acenaphthene	154	7.764	7.764	(1.003)	179295	5.50567	360
8	Fluorene	166	8.205	8.204	(1.060)	227494	5.89911	380
10	Phenanthrene	178	9.015	9.015	(1.002)	714932	12.5278	810
11	Anthracene	178	9.057	9.056	(1.007)	492088	8.68783	560

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.198	9.197	(1.022)	318037	6.36570	410
14 Fluoranthene	202	10.003	10.002	(1.112)	1397459	23.7966	1500(R)
15 Pyrene	202	10.191	10.184	(0.901)	1180551	17.4016	1100(R)
16 Benzo(a)anthracene	228	11.301	11.289	(0.999)	1076374	16.4795	1100(R)
18 Chrysene	228	11.336	11.330	(1.002)	1040248	16.9856	1100(R)
19 Benzo(b)fluoranthene	252	12.605	12.582	(0.959)	1590586	24.7603	1600(R)
20 Benzo(k)fluoranthene	252	12.635	12.623	(0.961)	829787	12.2611	800
21 Benzo(a)pyrene	252	13.052	13.034	(0.993)	1009299	15.6370	1000(R)
23 Indeno(1,2,3-cd)pyrene	276	14.744	14.709	(1.122)	909071	13.2085	860(RM)
24 Dibenzo(a,h)anthracene	278	14.762	14.732	(1.123)	571257	8.81417	570
25 Benzo(g,h,i)perylene	276	15.185	15.143	(1.155)	881863	13.3074	860(R)

QC Flag Legend

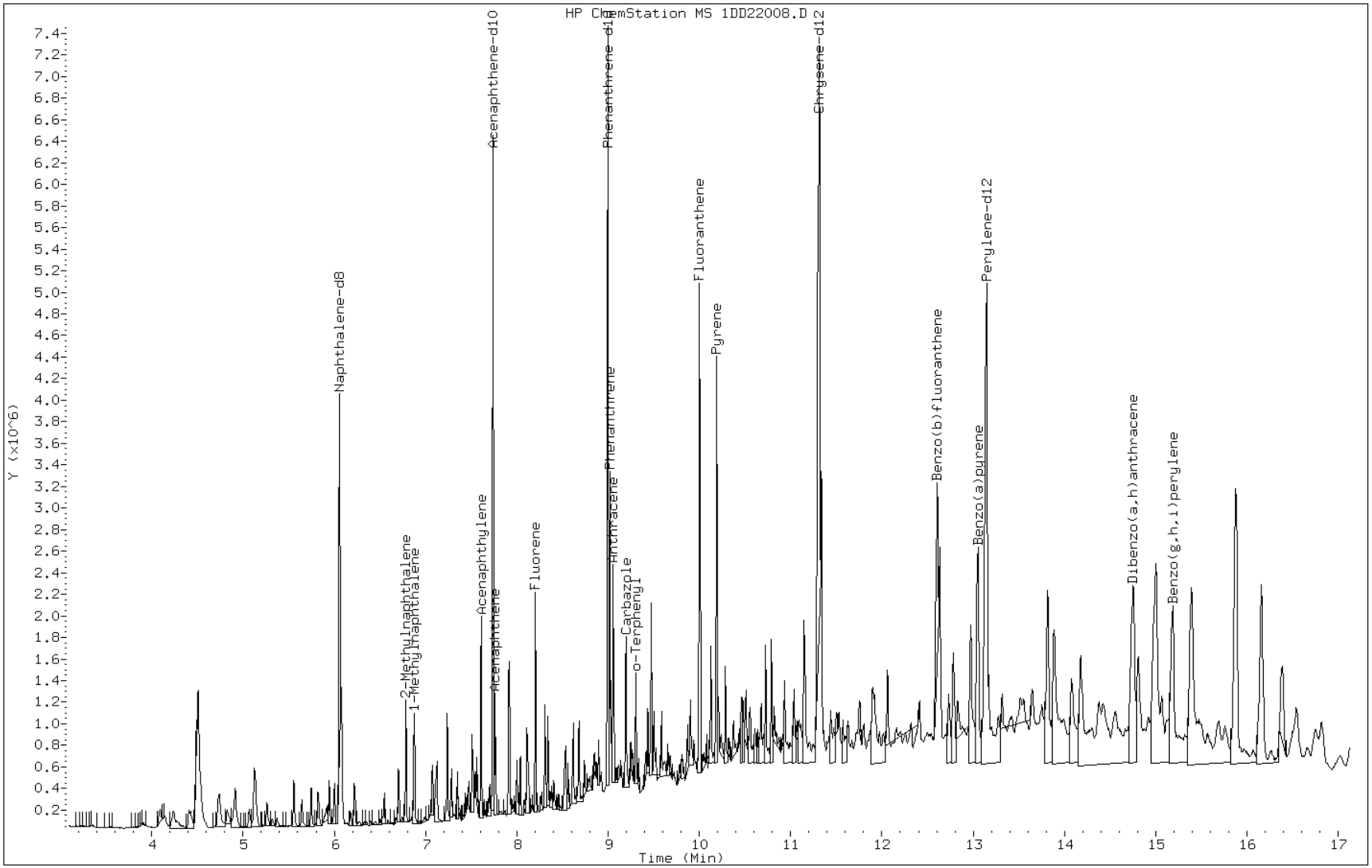
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD22008.D

Date: 22-APR-2013 12:38

Client ID: Instrument: BSMSD.i

Sample Info: 680-89275-A-21-B MS Operator: SCC



Manual Integration Report

Data File: 1DD22008.D
Inj. Date and Time: 22-APR-2013 12:38
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

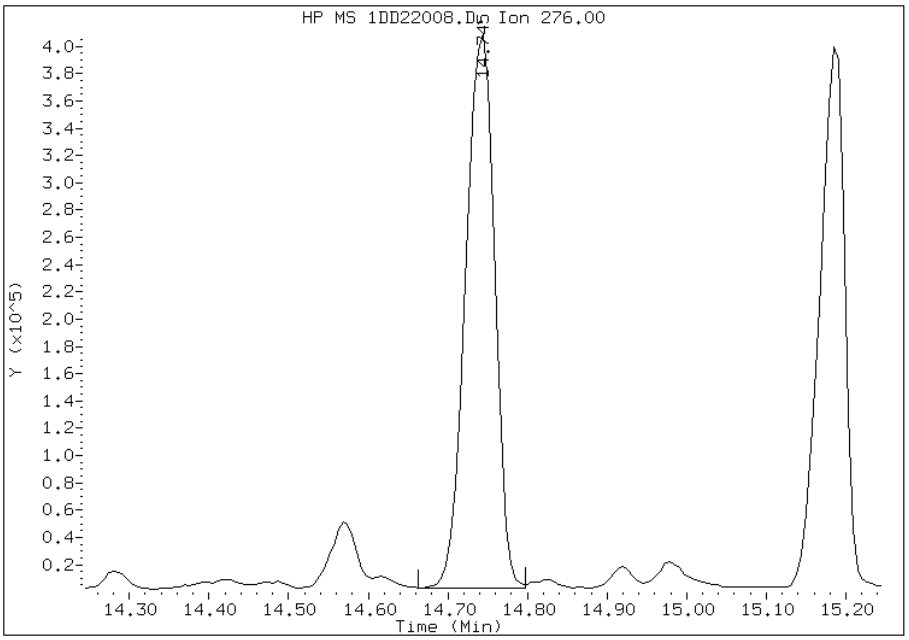
Processing Integration Results

RT: 14.74

Response: 1031008

Amount: 15

Conc: 973



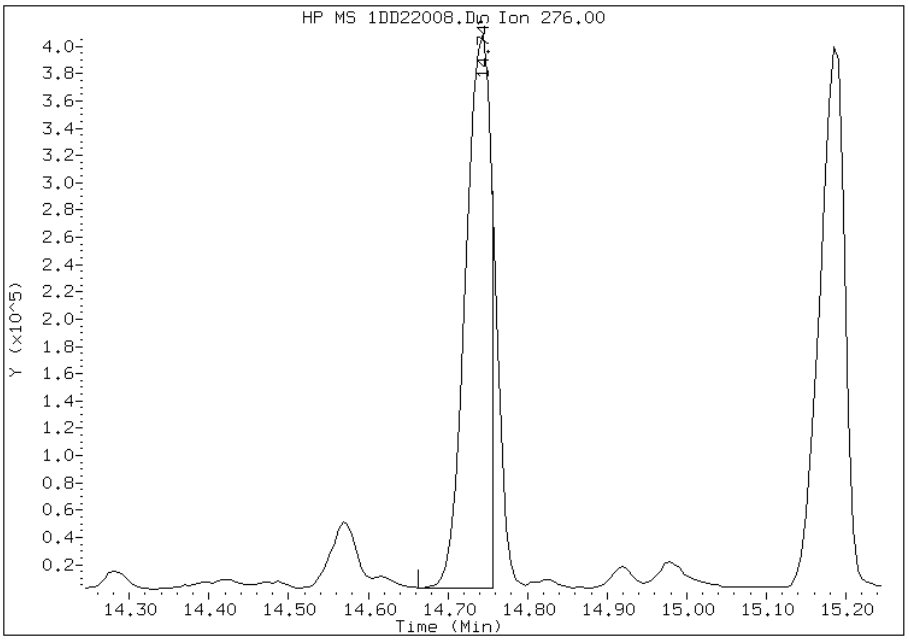
Manual Integration Results

RT: 14.74

Response: 909071

Amount: 13

Conc: 858



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: | Lab Sample ID: 680-89275-A-2-C MSD

Matrix: Solid | Lab File ID: 1CD17009.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/16/2013 07:00

Sample wt/vol: 15.03(g) | Date Analyzed: 04/17/2013 12:08

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

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

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

Analysis Batch No.: 136590 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	316		130	25
208-96-8	Acenaphthylene	416		50	6.3
120-12-7	Anthracene	422		11	5.3
56-55-3	Benzo[a]anthracene	749		10	4.9
50-32-8	Benzo[a]pyrene	623		13	6.5
205-99-2	Benzo[b]fluoranthene	939		15	7.7
191-24-2	Benzo[g,h,i]perylene	547		25	5.5
207-08-9	Benzo[k]fluoranthene	638		10	4.5
218-01-9	Chrysene	867		11	5.6
53-70-3	Dibenz(a,h)anthracene	352		25	5.1
206-44-0	Fluoranthene	1120		25	5.0
86-73-7	Fluorene	376		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	518		25	8.9
90-12-0	1-Methylnaphthalene	714		50	5.5
91-57-6	2-Methylnaphthalene	766		50	8.9
91-20-3	Naphthalene	657		50	5.5
85-01-8	Phenanthrene	1020		10	4.9
129-00-0	Pyrene	1090		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	39		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\1CD17009.D
Lab Smp Id: 680-89275-a-2-c msd
Inj Date : 17-APR-2013 12:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89275-a-2-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041713.b\a-bFASTPAHi-m.m
Meth Date : 17-Apr-2013 10:33 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	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	3.668	3.663	(1.000)	350766	40.0000	
*	6 Acenaphthene-d10	164	4.751	4.751	(1.000)	234568	40.0000	
*	10 Phenanthrene-d10	188	5.698	5.698	(1.000)	428425	40.0000	
$	14 o-Terphenyl	230	5.945	5.945	(1.043)	22826	3.90706	259.9508
*	18 Chrysene-d12	240	7.633	7.627	(1.000)	496833	40.0000	
*	23 Perylene-d12	264	8.786	8.780	(1.000)	456609	40.0000	
	2 Naphthalene	128	3.680	3.680	(1.003)	74529	7.86026	522.9711
	3 2-Methylnaphthalene	142	4.104	4.104	(1.119)	56368	9.16168	609.5593
	4 1-Methylnaphthalene	142	4.168	4.168	(1.136)	51723	8.53997	568.1947
	5 Acenaphthylene	152	4.662	4.663	(0.981)	49504	4.98052	331.3721
	7 Acenaphthene	154	4.774	4.774	(1.005)	22658	3.78265	251.6734(R)
	9 Fluorene	166	5.092	5.092	(1.072)	34281	4.49724	299.2173
	11 Phenanthrene	178	5.709	5.709	(1.002)	152408	12.1544	808.6779
	12 Anthracene	178	5.745	5.745	(1.008)	62848	5.05305	336.1974

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.856	5.851	(1.028)	48598	4.19534	279.1312(R)
15 Fluoranthene	202	6.545	6.545	(1.149)	186758	13.4376	894.0498(R)
16 Pyrene	202	6.709	6.709	(0.879)	184617	13.0616	869.0324(R)
17 Benzo(a)anthracene	228	7.621	7.621	(0.998)	125946	8.96447	596.4385
19 Chrysene	228	7.650	7.651	(1.002)	144156	10.3721	690.0938
20 Benzo(b)fluoranthene	252	8.456	8.450	(0.963)	129472	11.2264	746.9352
21 Benzo(k)fluoranthene	252	8.474	8.468	(0.965)	99560	7.62914	507.5941
22 Benzo(a)pyrene	252	8.733	8.733	(0.994)	88893	7.45668	496.1197
24 Indeno(1,2,3-cd)pyrene	276	9.903	9.903	(1.127)	65814	6.19633	412.2639(M)
25 Dibenzo(a,h)anthracene	278	9.921	9.915	(1.129)	44054	4.21478	280.4241
26 Benzo(g,h,i)perylene	276	10.239	10.233	(1.165)	73059	6.53839	435.0228

QC Flag Legend

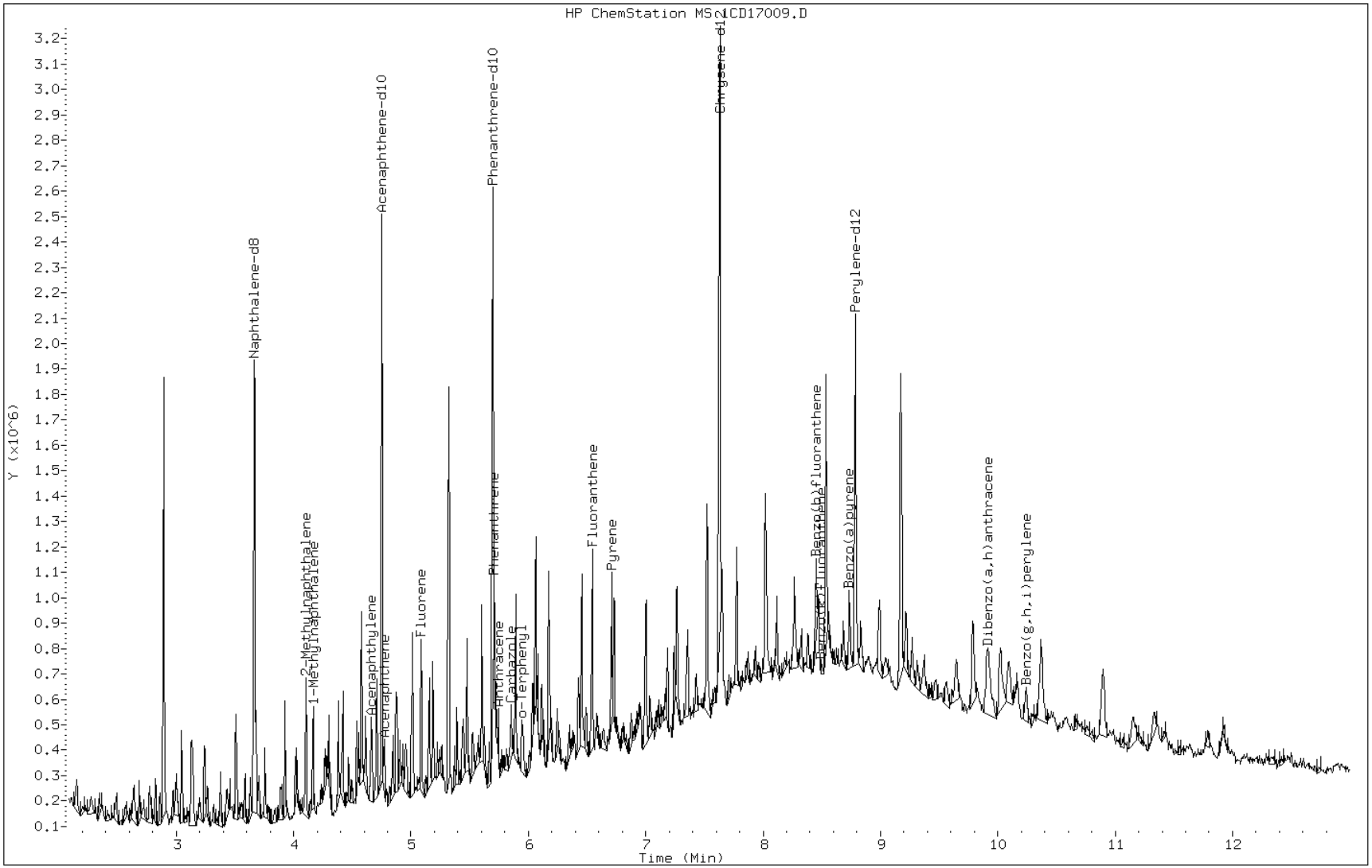
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD17009.D

Date: 17-APR-2013 12:08

Client ID: Instrument: BSMC5973.i

Sample Info: 680-89275-a-2-c msd Operator: SCC



Manual Integration Report

Data File: 1CD17009.D
Inj. Date and Time: 17-APR-2013 12:08
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/18/2013

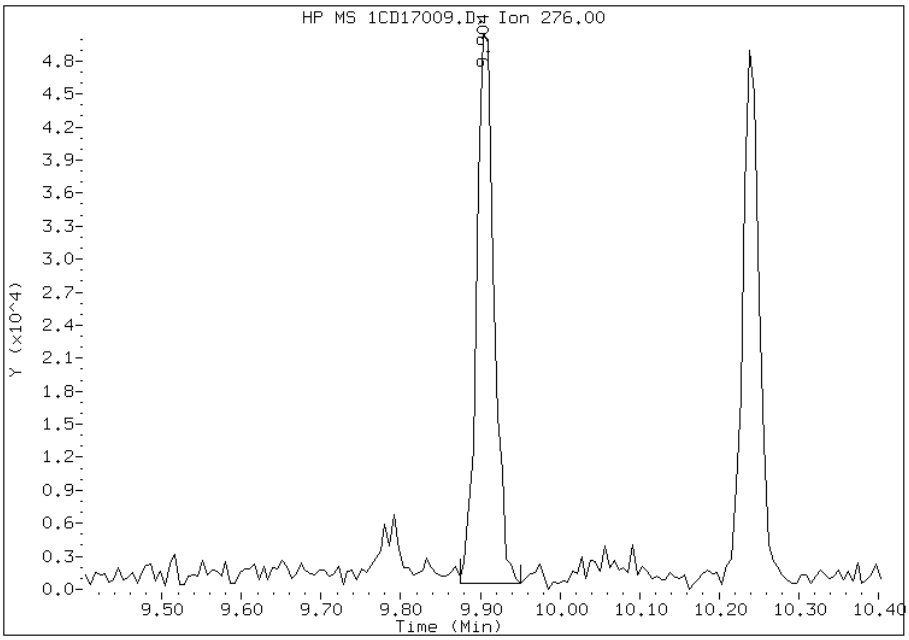
Processing Integration Results

RT: 9.90

Response: 76292

Amount: 7

Conc: 471



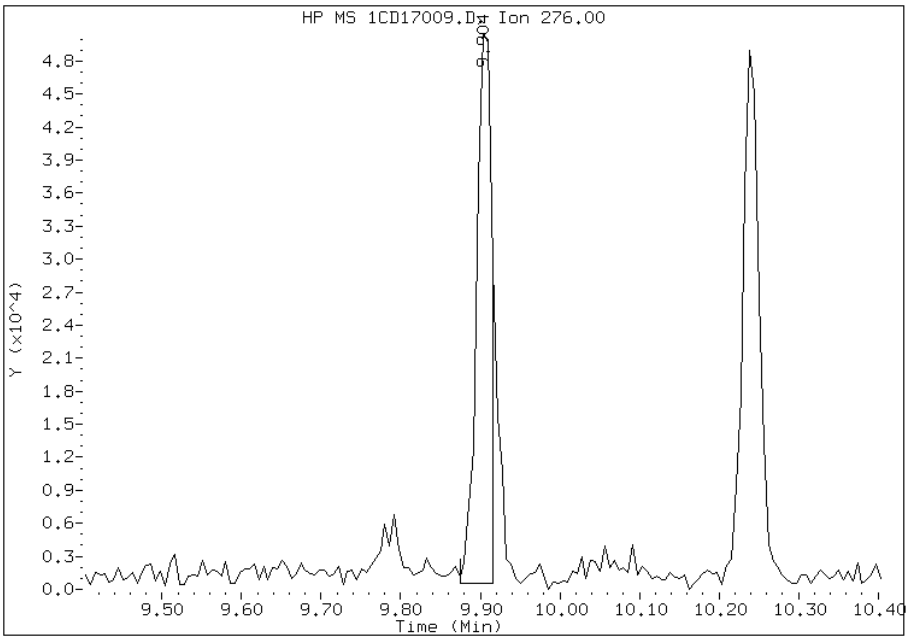
Manual Integration Results

RT: 9.90

Response: 65814

Amount: 6

Conc: 412



Manually Integrated By: cantins
Modification Date: 17-Apr-2013 15:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: | Lab Sample ID: 680-89220-A-41-C MSD

Matrix: Solid | Lab File ID: 1CD19020.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/17/2013 16:34

Sample wt/vol: 14.96(g) | Date Analyzed: 04/19/2013 16:57

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

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

% Moisture: 39.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	720		170	33
208-96-8	Acenaphthylene	829		67	8.3
120-12-7	Anthracene	752		14	7.0
56-55-3	Benzo[a]anthracene	924		13	6.5
50-32-8	Benzo[a]pyrene	812		17	8.7
205-99-2	Benzo[b]fluoranthene	1340		20	10
191-24-2	Benzo[g,h,i]perylene	693		33	7.3
207-08-9	Benzo[k]fluoranthene	728		13	6.0
218-01-9	Chrysene	951		15	7.5
53-70-3	Dibenz(a,h)anthracene	686		33	6.8
206-44-0	Fluoranthene	976		33	6.7
86-73-7	Fluorene	777		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	688		33	12
90-12-0	1-Methylnaphthalene	978		67	7.3
91-57-6	2-Methylnaphthalene	853		67	12
91-20-3	Naphthalene	867		67	7.3
85-01-8	Phenanthrene	919		13	6.5
129-00-0	Pyrene	1010		33	6.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\1CD19020.D
Lab Smp Id: 680-89220-a-41-c ms
Inj Date : 19-APR-2013 16:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89220-a-41-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041913.b\a-bFASTPAHi-m.m
Meth Date : 19-Apr-2013 11:43 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 20 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	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	3.657	3.657	(1.000)	234812	40.0000	
*	6 Acenaphthene-d10	164	4.745	4.739	(1.000)	166333	40.0000	
*	10 Phenanthrene-d10	188	5.686	5.686	(1.000)	324473	40.0000	
$	14 o-Terphenyl	230	5.933	5.933	(1.043)	28312	5.95883	398.3176
*	18 Chrysene-d12	240	7.621	7.615	(1.000)	375136	40.0000	
*	23 Perylene-d12	264	8.768	8.768	(1.000)	361282	40.0000	
	2 Naphthalene	128	3.669	3.669	(1.003)	49524	7.80233	521.5461
	3 2-Methylnaphthalene	142	4.092	4.092	(1.119)	31427	7.67590	513.0949
	4 1-Methylnaphthalene	142	4.157	4.157	(1.137)	35678	8.79975	588.2183
	5 Acenaphthylene	152	4.657	4.657	(0.981)	52567	7.45827	498.5475
	7 Acenaphthene	154	4.763	4.763	(1.004)	27516	6.47814	433.0309
	9 Fluorene	166	5.080	5.080	(1.071)	37805	6.99410	467.5200
	11 Phenanthrene	178	5.698	5.698	(1.002)	78628	8.27082	552.8621
	12 Anthracene	178	5.733	5.733	(1.008)	63750	6.76766	452.3834

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	5.845	5.845	(1.028)	55839	6.36477	425.4527
15 Fluoranthene	202	6.533	6.533	(1.149)	92434	8.78152	586.9997
16 Pyrene	202	6.698	6.698	(0.879)	96912	9.08077	607.0031
17 Benzo(a)anthracene	228	7.610	7.610	(0.998)	88183	8.31279	555.6678
19 Chrysene	228	7.639	7.639	(1.002)	89819	8.55903	572.1273
20 Benzo(b)fluoranthene	252	8.439	8.439	(0.962)	110216	12.0784	807.3786
21 Benzo(k)fluoranthene	252	8.457	8.457	(0.964)	67619	6.54874	437.7498
22 Benzo(a)pyrene	252	8.715	8.715	(0.994)	68906	7.30522	488.3166
24 Indeno(1,2,3-cd)pyrene	276	9.880	9.880	(1.127)	52017	6.19025	413.7870(M)
25 Dibenzo(a,h)anthracene	278	9.892	9.892	(1.128)	52999	6.17581	412.8216
26 Benzo(g,h,i)perylene	276	10.215	10.209	(1.165)	55114	6.23386	416.7021

QC Flag Legend

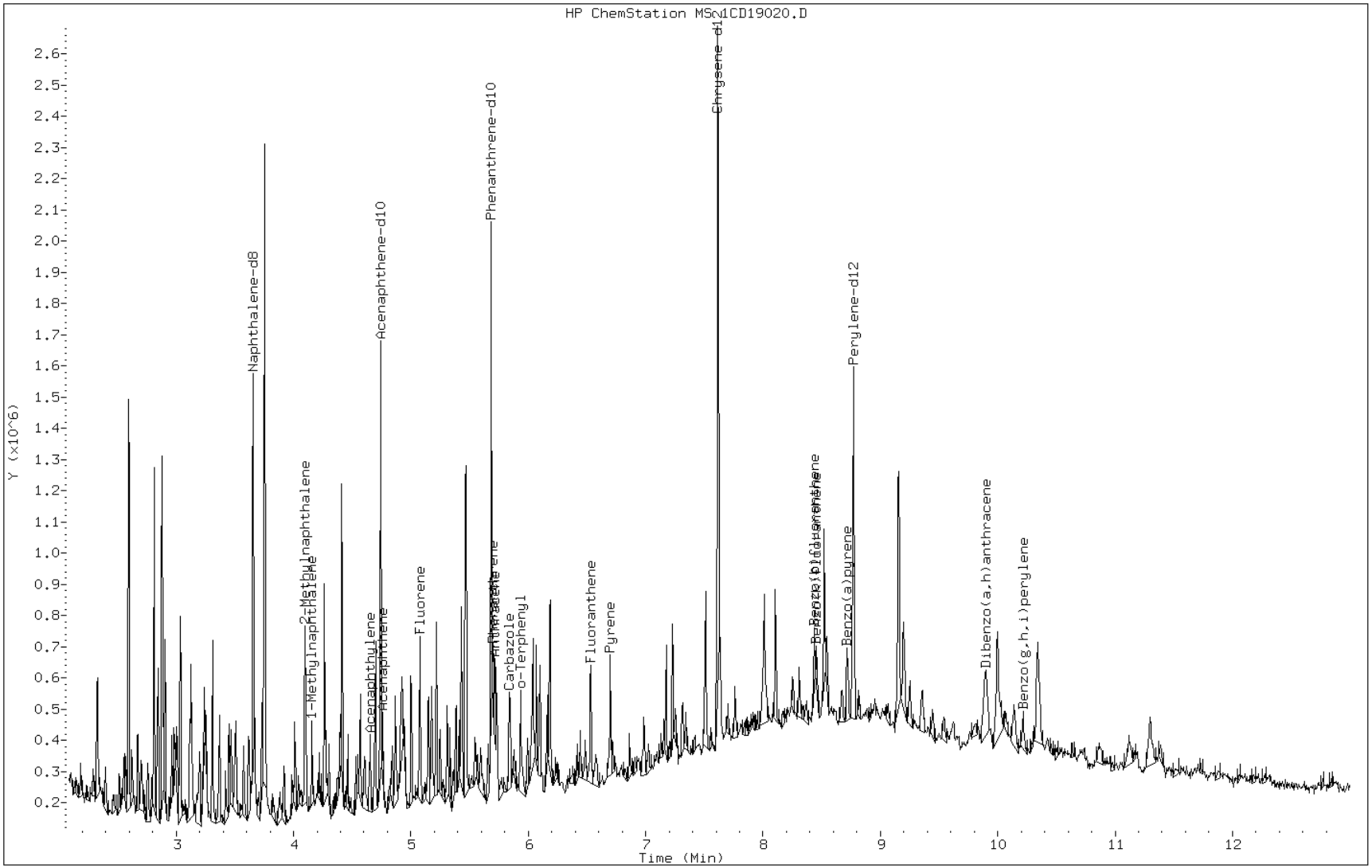
M - Compound response manually integrated.

Data File: 1CD19020.D

Date: 19-APR-2013 16:57

Client ID: Instrument: BSMC5973.i

Sample Info: 680-89220-a-41-c msd Operator: SCC



Manual Integration Report

Data File: 1CD19020.D
Inj. Date and Time: 19-APR-2013 16:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

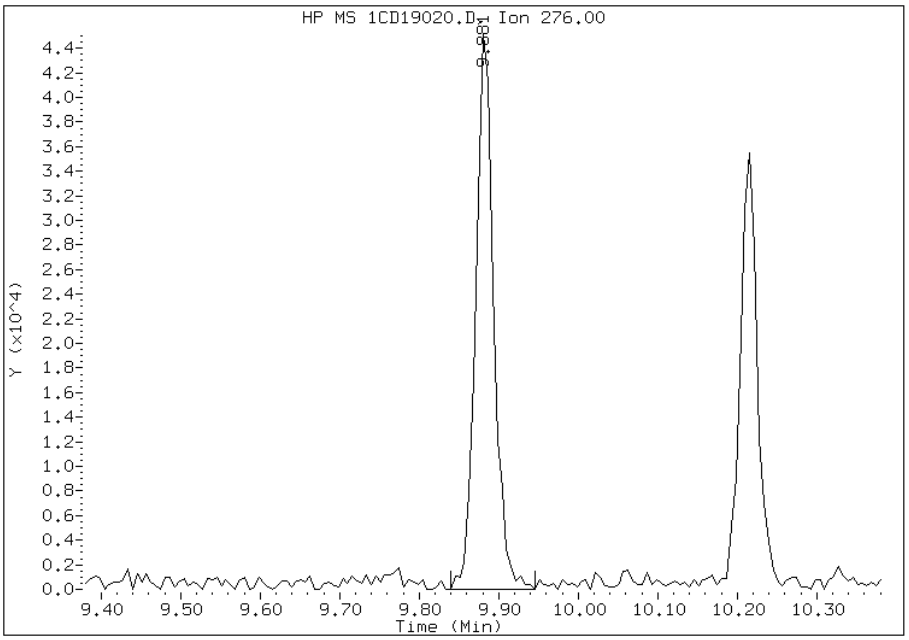
Processing Integration Results

RT: 9.88

Response: 70540

Amount: 8

Conc: 546



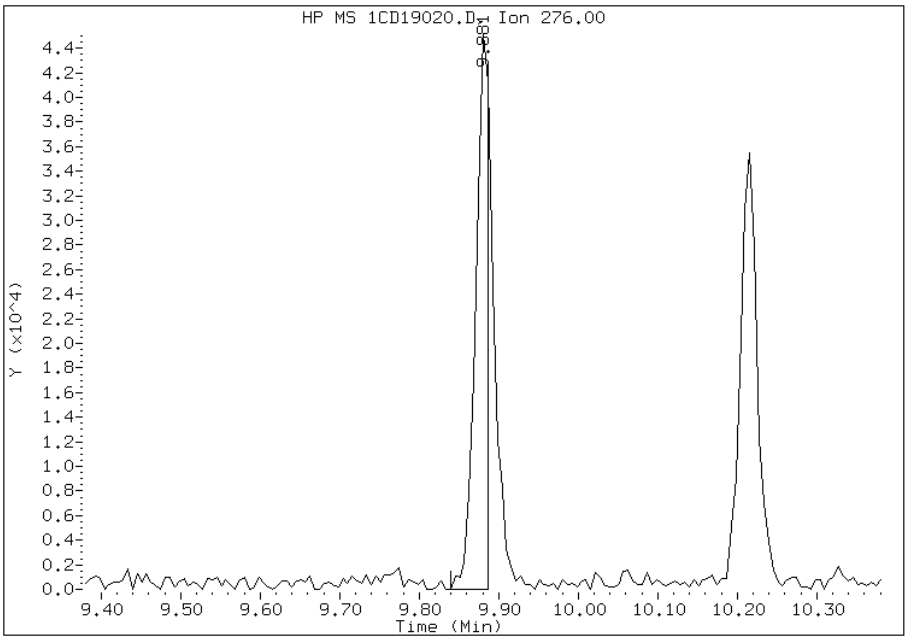
Manual Integration Results

RT: 9.88

Response: 52017

Amount: 6

Conc: 414



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89275-2

SDG No.: 68089275-2

Client Sample ID: CV0661A-CS-SP MSD | Lab Sample ID: 680-89275-21 MSD

Matrix: Solid | Lab File ID: 1DD22009.D

Analysis Method: 8270C LL | Date Collected: 04/10/2013 08:55

Extract. Method: 3546 | Date Extracted: 04/18/2013 15:43

Sample wt/vol: 15.39(g) | Date Analyzed: 04/22/2013 13:00

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

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

% Moisture: 25.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136733 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	571		130	26
208-96-8	Acenaphthylene	1010		52	6.5
120-12-7	Anthracene	957		11	5.5
56-55-3	Benzo[a]anthracene	1750		10	5.1
50-32-8	Benzo[a]pyrene	1700		14	6.8
205-99-2	Benzo[b]fluoranthene	2660		16	7.9
191-24-2	Benzo[g,h,i]perylene	1270		26	5.7
207-08-9	Benzo[k]fluoranthene	1260		10	4.7
218-01-9	Chrysene	1870		12	5.9
53-70-3	Dibenz(a,h)anthracene	865		26	5.3
206-44-0	Fluoranthene	2660		26	5.2
86-73-7	Fluorene	641		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	1290		26	9.2
90-12-0	1-Methylnaphthalene	722		52	5.7
91-57-6	2-Methylnaphthalene	778		52	9.2
91-20-3	Naphthalene	973		52	5.7
85-01-8	Phenanthrene	1420		10	5.1
129-00-0	Pyrene	1850		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22009.D
Lab Smp Id: 680-89275-A-21-C MS
Inj Date : 22-APR-2013 13:00
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89275-A-21-C MSD
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	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/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.055	6.054	(1.000)	1863685	40.0000	
* 6	Acenaphthene-d10	164	7.741	7.734	(1.000)	1105330	40.0000	
* 9	Phenanthrene-d10	188	8.999	8.998	(1.000)	1822597	40.0000	
$ 13	o-Terphenyl	230	9.304	9.309	(1.034)	178395	6.49613	420
* 17	Chrysene-d12	240	11.319	11.307	(1.000)	2040070	40.0000	
* 22	Perylene-d12	264	13.147	13.122	(1.000)	2299548	40.0000	
2	Naphthalene	128	6.079	6.077	(1.004)	519360	11.2117	730
3	2-Methylnaphthalene	142	6.784	6.783	(1.120)	268040	8.96369	580
4	1-Methylnaphthalene	142	6.878	6.877	(1.136)	234965	8.32068	540
5	Acenaphthylene	152	7.612	7.611	(0.983)	544974	11.6491	760
7	Acenaphthene	154	7.765	7.764	(1.003)	190031	6.58066	430
8	Fluorene	166	8.205	8.204	(1.060)	252708	7.38990	480
10	Phenanthrene	178	9.016	9.015	(1.002)	821216	16.3580	1100(R)
11	Anthracene	178	9.057	9.056	(1.007)	549489	11.0278	720

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.198	9.197	(1.022)	341909	7.77928	500
14 Fluoranthene	202	10.003	10.002	(1.112)	1581341	30.6099	2000(R)
15 Pyrene	202	10.191	10.184	(0.900)	1303222	21.2725	1400(R)
16 Benzo(a)anthracene	228	11.302	11.289	(0.998)	1192368	20.2156	1300(R)
18 Chrysene	228	11.343	11.330	(1.002)	1190647	21.5289	1400(R)
19 Benzo(b)fluoranthene	252	12.612	12.582	(0.959)	1758451	30.6120	2000(R)
20 Benzo(k)fluoranthene	252	12.641	12.623	(0.962)	877480	14.4998	940(R)
21 Benzo(a)pyrene	252	13.059	13.034	(0.993)	1129163	19.5638	1300(R)
23 Indeno(1,2,3-cd)pyrene	276	14.751	14.709	(1.122)	914361	14.8572	960(RM)
24 Dibenzo(a,h)anthracene	278	14.768	14.732	(1.123)	577847	9.97068	650
25 Benzo(g,h,i)perylene	276	15.197	15.143	(1.156)	864547	14.5896	950(R)

QC Flag Legend

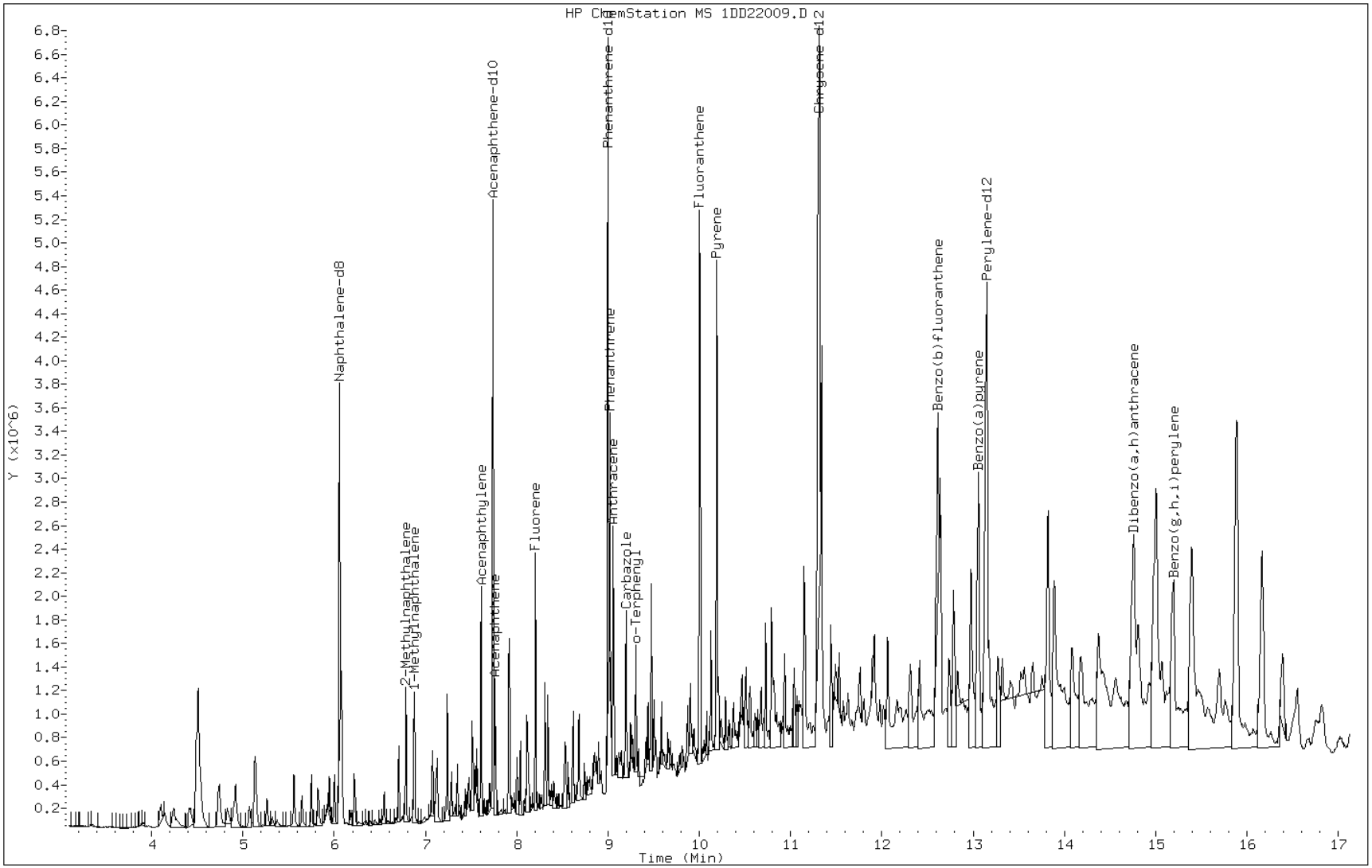
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD22009.D

Date: 22-APR-2013 13:00

Client ID: Instrument: BSMSD.i

Sample Info: 680-89275-A-21-C MSD Operator: SCC



Manual Integration Report

Data File: 1DD22009.D
Inj. Date and Time: 22-APR-2013 13:00
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

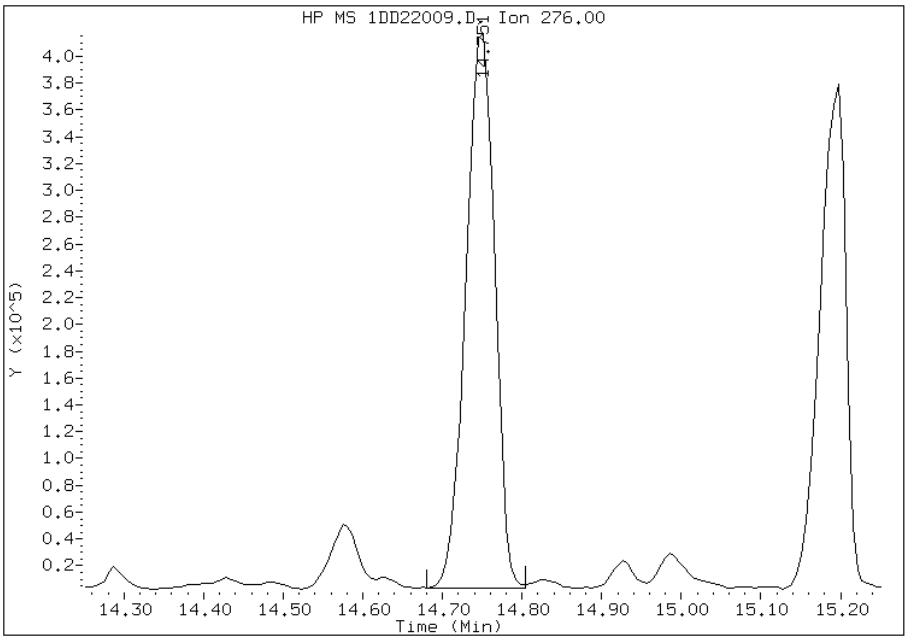
Processing Integration Results

RT: 14.75

Response: 1042444

Amount: 17

Conc: 1101



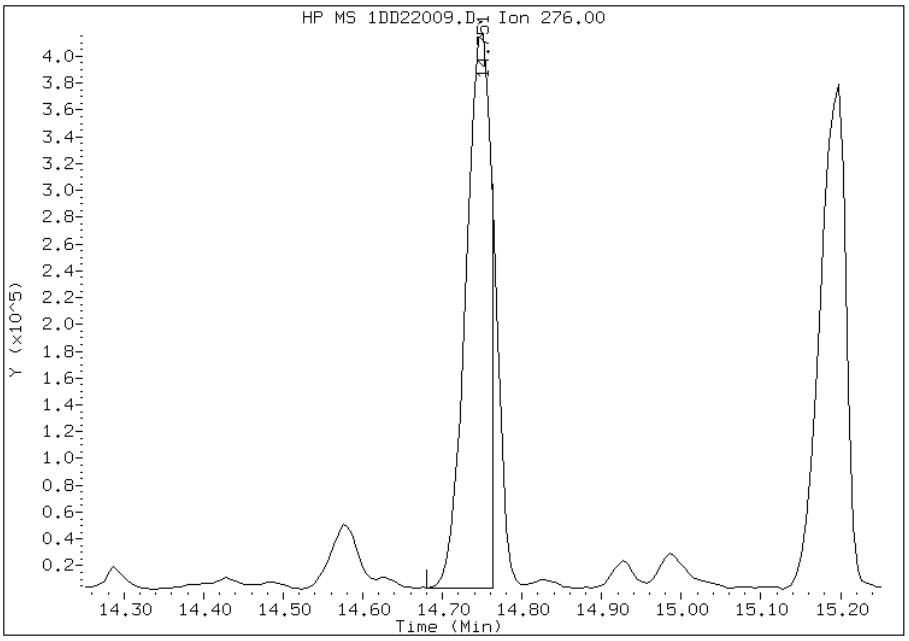
Manual Integration Results

RT: 14.75

Response: 914361

Amount: 15

Conc: 965



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:25
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

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)
ZZZZZ		04/11/2013 14:51	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 15:10	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 15:28	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 15:46	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 16:05	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 16:23	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 16:41	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 17:00	1		DB-5MS 250(um)
ZZZZZ		04/11/2013 17:18	1		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 ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMC5973 Start Date: 04/17/2013 09:25

Analysis Batch Number: 136590 End Date: 04/17/2013 18:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/17/2013 09:25	1		DB-5MS 250(um)
ZZZZZ		04/17/2013 09:43	1		DB-5MS 250(um)
DFTPP 660-136590/2		04/17/2013 10:01	1	1CD17002.D	DB-5MS 250(um)
CCVIS 660-136590/3		04/17/2013 10:18	1	1CD17003.D	DB-5MS 250(um)
ZZZZZ		04/17/2013 10:36	1		DB-5MS 250(um)
MB 660-136462/1-A		04/17/2013 10:54	1	1CD17005.D	DB-5MS 250(um)
LCS 660-136462/2-A		04/17/2013 11:13	1	1CD17006.D	DB-5MS 250(um)
ZZZZZ		04/17/2013 11:31	1		DB-5MS 250(um)
680-89275-A-2-B MS		04/17/2013 11:49	1	1CD17008.D	DB-5MS 250(um)
680-89275-A-2-C MSD		04/17/2013 12:08	1	1CD17009.D	DB-5MS 250(um)
ZZZZZ		04/17/2013 12:26	4		DB-5MS 250(um)
ZZZZZ		04/17/2013 12:44	4		DB-5MS 250(um)
ZZZZZ		04/17/2013 13:03	4		DB-5MS 250(um)
ZZZZZ		04/17/2013 13:21	1		DB-5MS 250(um)
ZZZZZ		04/17/2013 13:39	1		DB-5MS 250(um)
ZZZZZ		04/17/2013 13:58	4		DB-5MS 250(um)
ZZZZZ		04/17/2013 14:16	1		DB-5MS 250(um)
ZZZZZ		04/17/2013 14:34	1		DB-5MS 250(um)
ZZZZZ		04/17/2013 14:53	1		DB-5MS 250(um)
ZZZZZ		04/17/2013 15:11	4		DB-5MS 250(um)
ZZZZZ		04/17/2013 15:29	1		DB-5MS 250(um)
ZZZZZ		04/17/2013 15:48	1		DB-5MS 250(um)
ZZZZZ		04/17/2013 16:06	1		DB-5MS 250(um)
ZZZZZ		04/17/2013 16:24	1		DB-5MS 250(um)
ZZZZZ		04/17/2013 16:43	1		DB-5MS 250(um)
ZZZZZ		04/17/2013 17:01	1		DB-5MS 250(um)
680-89275-22	CV0661B-CS-SP	04/17/2013 17:19	4	1CD17026.D	DB-5MS 250(um)
680-89275-23	CV0661C-CS-SP	04/17/2013 17:38	1	1CD17027.D	DB-5MS 250(um)
ZZZZZ		04/17/2013 17:56	4		DB-5MS 250(um)
ZZZZZ		04/17/2013 18:14	20		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMC5973 Start Date: 04/19/2013 10:31

Analysis Batch Number: 136655 End Date: 04/19/2013 21:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/19/2013 10:31	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 10:49	1		DB-5MS 250(um)
DFTPP 660-136655/2		04/19/2013 11:08	1	1CD19002.D	DB-5MS 250(um)
CCVIS 660-136655/3		04/19/2013 11:24	1	1CD19003.D	DB-5MS 250(um)
ZZZZZ		04/19/2013 11:45	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 12:04	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 12:22	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 12:40	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 12:58	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 13:17	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 13:35	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 13:53	1		DB-5MS 250(um)
MB 660-136551/1-A		04/19/2013 14:23	1	1CD19012.D	DB-5MS 250(um)
LCS 660-136551/2-A		04/19/2013 14:42	1	1CD19013.D	DB-5MS 250(um)
ZZZZZ		04/19/2013 15:08	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 15:26	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 15:44	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 16:02	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 16:21	1		DB-5MS 250(um)
680-89220-A-41-B MS		04/19/2013 16:39	1	1CD19019.D	DB-5MS 250(um)
680-89220-A-41-C MSD		04/19/2013 16:57	1	1CD19020.D	DB-5MS 250(um)
ZZZZZ		04/19/2013 17:16	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 17:34	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 17:52	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 18:10	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 18:29	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 18:47	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 19:05	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 19:23	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 19:42	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 20:00	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 20:18	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 20:37	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 20:55	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 21:13	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 21:32	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 21:50	20		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMC5973 Start Date: 04/22/2013 10:57

Analysis Batch Number: 136698 End Date: 04/22/2013 22:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/22/2013 10:57	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 11:15	1		DB-5MS 250(um)
DFTPP 660-136698/2		04/22/2013 11:33	1	1CD22002.D	DB-5MS 250(um)
CCVIS 660-136698/3		04/22/2013 11:50	1	1CD22003.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 12:12	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 12:30	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 12:48	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 13:07	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 13:26	10		DB-5MS 250(um)
680-89275-25	CV0886B-CS-SP	04/22/2013 14:05	10	1CD22009.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 14:33	4		DB-5MS 250(um)
680-89275-25 DL	CV0886B-CS-SP DL	04/22/2013 14:51	25	1CD22011.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 15:20	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 15:38	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 15:56	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 16:15	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 16:33	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 16:51	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 17:10	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 17:28	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 17:46	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 18:05	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 18:23	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 18:41	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:00	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:18	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:36	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:55	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 20:13	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 20:31	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 20:50	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 21:08	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 21:26	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 21:45	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 22:03	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 22:22	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMD5973 Start Date: 04/04/2013 11:04

Analysis Batch Number: 136164 End Date: 04/04/2013 20:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/04/2013 11:04	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 11:30	1		DB-5MS 250(um)
DFTPP 660-136164/2		04/04/2013 11:55	1		DB-5MS 250(um)
DFTPP 660-136164/3		04/04/2013 12:15	1	1DD04003.D	DB-5MS 250(um)
CCVIS 660-136164/4		04/04/2013 12:34	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 13:02	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 13:26	1		DB-5MS 250(um)
IC 660-136164/15		04/04/2013 13:49	1	1DD04007.D	DB-5MS 250(um)
IC 660-136164/16		04/04/2013 14:11	1	1DD04008.D	DB-5MS 250(um)
IC 660-136164/17		04/04/2013 14:34	1	1DD04009.D	DB-5MS 250(um)
IC 660-136164/18		04/04/2013 14:57	1	1DD04010.D	DB-5MS 250(um)
ICIS 660-136164/19		04/04/2013 15:19	1	1DD04011.D	DB-5MS 250(um)
IC 660-136164/20		04/04/2013 15:42	1	1DD04012.D	DB-5MS 250(um)
IC 660-136164/21		04/04/2013 16:04	1	1DD04013.D	DB-5MS 250(um)
ICV 660-136164/22		04/04/2013 16:27	1	1DD04014.D	DB-5MS 250(um)
ZZZZZ		04/04/2013 16:52	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 17:18	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 17:44	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 18:09	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 18:35	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:27	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:51	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 20:13	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 20:36	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMD5973 Start Date: 04/18/2013 09:47

Analysis Batch Number: 136591 End Date: 04/19/2013 00:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/18/2013 09:47	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 10:10	1		DB-5MS 250(um)
DFTPP 660-136591/2		04/18/2013 10:34	1		DB-5MS 250(um)
DFTPP 660-136591/3		04/18/2013 10:59	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 12:56	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 13:18	1		DB-5MS 250(um)
DFTPP 660-136591/6		04/18/2013 13:43	1	1DD18005.D	DB-5MS 250(um)
CCVIS 660-136591/7		04/18/2013 14:03	1	1DD18006.D	DB-5MS 250(um)
ZZZZZ		04/18/2013 14:27	1		DB-5MS 250(um)
680-89275-24	CV0886A-CS-SP	04/18/2013 14:50	4	1DD18008.D	DB-5MS 250(um)
680-89275-24 DL	CV0886A-CS-SP DL	04/18/2013 15:19	20	1DD18009.D	DB-5MS 250(um)
680-89275-24 DL2	CV0886A-CS-SP DL2	04/18/2013 15:48	100	1DD18010.D	DB-5MS 250(um)
ZZZZZ		04/18/2013 16:11	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 16:33	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 16:56	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 17:19	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 17:41	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 18:04	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 18:26	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 18:49	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 19:11	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 19:34	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 19:56	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 20:19	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 20:41	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 21:04	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 21:26	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 21:49	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 22:11	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 22:34	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 22:57	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 23:19	1		DB-5MS 250(um)
ZZZZZ		04/18/2013 23:42	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 00:04	1		DB-5MS 250(um)
ZZZZZ		04/19/2013 00:27	4		DB-5MS 250(um)
ZZZZZ		04/19/2013 00:49	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: BSMD5973 Start Date: 04/22/2013 09:39

Analysis Batch Number: 136733 End Date: 04/22/2013 20:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/22/2013 09:39	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 10:02	1		DB-5MS 250(um)
DFTPP 660-136733/2		04/22/2013 10:26	1	1DD22002.D	DB-5MS 250(um)
CCVIS 660-136733/3		04/22/2013 10:43	1	1DD22003.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 11:07	1		DB-5MS 250(um)
MB 660-136604/1-A		04/22/2013 11:30	1	1DD22005.D	DB-5MS 250(um)
LCS 660-136604/2-A		04/22/2013 11:53	1	1DD22006.D	DB-5MS 250(um)
680-89275-21	CV0661A-CS-SP	04/22/2013 12:15	1	1DD22007.D	DB-5MS 250(um)
680-89275-21 MS	CV0661A-CS-SP MS	04/22/2013 12:38	1	1DD22008.D	DB-5MS 250(um)
680-89275-21 MSD	CV0661A-CS-SP MSD	04/22/2013 13:00	1	1DD22009.D	DB-5MS 250(um)
ZZZZZ		04/22/2013 13:23	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 13:46	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 14:08	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 14:31	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 14:53	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 15:16	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 15:38	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 16:01	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 16:23	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 16:46	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 17:09	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 17:31	4		DB-5MS 250(um)
ZZZZZ		04/22/2013 17:54	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 18:16	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 18:39	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:24	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 19:46	1		DB-5MS 250(um)
ZZZZZ		04/22/2013 20:09	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Batch Number: 136462 Batch Start Date: 04/16/13 07:00 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/16/13 15:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136462/1		3546, 8270C LL		15.04 g	1 mL		1 mL		
LCS 660-136462/2		3546, 8270C LL		15.21 g	1 mL	1 mL	1 mL		
680-89275-A-2 MS		3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-89275-A-2 MSD		3546, 8270C LL	T	15.03 g	1 mL	1 mL	1 mL		
680-89275-A-22	CV0661B-CS-SP	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-89275-A-23	CV0661C-CS-SP	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-89275-A-24	CV0886A-CS-SP	3546, 8270C LL	T	14.90 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.: 680-89275-2

SDG No.: 68089275-2

Batch Number: 136462 Batch Start Date: 04/16/13 07:00 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/16/13 15:55

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
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 24
MeCl2/Acetone Lot #	DCM/ACETON
Microwave Start Time	13.30/4/16/13
Microwave Stop Time	14.05/4/16/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	OTTOWA SAND 16
Person's name who did the prep	RYAN
SOP Number	TP-EX014
Person who witnessed spiking	SAUREL
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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Batch Number: 136551 Batch Start Date: 04/17/13 16:34 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/18/13 15:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136551/1		3546, 8270C LL		15.12 g	1 mL		1 mL		
LCS 660-136551/2		3546, 8270C LL		15.08 g	1 mL	1 mL	1 mL		
680-89220-A-41 MS		3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL		
680-89220-A-41 MSD		3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-89275-A-25	CV0886B-CS-SP	3546, 8270C LL	T	15.28 g	1 mL		1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL55
MeCl2/Acetone Lot #	DCM/ACETON 68/69
Microwave Start Time	10:00 4/18/13
Microwave Stop Time	10:35 4/18/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE_OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT_179
Water Bath ID	TURBOVAP2 #3/4
Water Bath Temperature	40

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Batch Number: 136551 Batch Start Date: 04/17/13 16:34 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/18/13 15:10

Basis	Basis Description
T	Total/NA

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Batch Number: 136604 Batch Start Date: 04/18/13 15:43 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/19/13 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136604/1		3546, 8270C LL		15.38 g	1 mL		1 mL		
LCS 660-136604/2		3546, 8270C LL		15.16 g	1 mL	1 mL	1 mL		
680-89275-A-21	CV0661A-CS-SP	3546, 8270C LL	T	15.39 g	1 mL		1 mL		
680-89275-A-21 MS	CV0661A-CS-SP	3546, 8270C LL	T	15.39 g	1 mL	1 mL	1 mL		
680-89275-A-21 MSD	CV0661A-CS-SP	3546, 8270C LL	T	15.39 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
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 69
Microwave Start Time	17:20 4/18/13
Microwave Stop Time	17:55 4/18/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE-OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Batch Number: 136604 Batch Start Date: 04/18/13 15:43 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/19/13 13:00

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89275-2

SDG No.: 68089275-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0661A-CS-SP	680-89275-21
CV0661B-CS-SP	680-89275-22
CV0661C-CS-SP	680-89275-23
CV0886A-CS-SP	680-89275-24
CV0886B-CS-SP	680-89275-25

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89275-2

SDG Number: 68089275-2

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: 680-89275-2

SDG Number: 68089275-2

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.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 04/15/2013 11:33   End Date: 04/15/2013 11:33

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
680-89275-21	1	T	11:33	X																			
680-89275-21 MS	1	T	11:33	X																			
680-89275-21 MSD	1	T	11:33	X																			
ZZZZZZ			11:33																				
680-89275-22	1	T	11:33	X																			
680-89275-25	1	T	11:33	X																			
680-89275-23	1	T	11:33	X																			
ZZZZZZ			11:33																				
ZZZZZZ			11:33																				
ZZZZZZ			11:33																				
ZZZZZZ			11:33																				
ZZZZZZ			11:33																				
ZZZZZZ			11:33																				
ZZZZZZ			11:33																				
680-89275-24	1	T	11:33	X																			
ZZZZZZ			11:33																				
ZZZZZZ			11:33																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/15/2013 11:33 End Date: 04/15/2013 11:33

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89275-2

SDG No.: 68089275-2

Batch Number: 136437 Batch Start Date: 04/15/13 11:33 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89275-A-21	CV0661A-CS-SP	Moisture	T	1	0 g	4.82 g	3.61 g		
680-89275-A-21 MS	CV0661A-CS-SP	Moisture	T	1	0 g	4.82 g	3.61 g		
680-89275-A-21 MSD	CV0661A-CS-SP	Moisture	T	1	0 g	4.82 g	3.61 g		
680-89275-A-22	CV0661B-CS-SP	Moisture	T	3	0 g	4.25 g	3.34 g		
680-89275-A-25	CV0886B-CS-SP	Moisture	T	4	0 g	6.76 g	4.62 g		
680-89275-A-23	CV0661C-CS-SP	Moisture	T	5	0 g	4.68 g	3.79 g		
680-89275-A-24	CV0886A-CS-SP	Moisture	T	13	0 g	5.64 g	4.45 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.15.13

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 59204

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005148-1356
PROJECT LOCATION (STATE): AL

(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: 4 PAH	NUMBER OF CONTAINERS SUBMITTED	REMARKS
		PRESERVATIVE								
4-10-13	1325	CV1357A-CS	C		X			X		
	1335	CV1357B-CS	C		X			X		
	1045	CVØ5ØA-CS-SP	C		X			X		
	1056	CVØ5ØB-CS-SP	C		X			X		
	0948	CVØ133A-CS-SP	C		X			X		
	1005	CVØ133B-CS-SP	C		X			X		
	1435	CVØ318A-CS-SP	C		X			X		
	1445	CVØ318B-CS-SP	C		X			X		
	0855	CVØ661A-CS-SP	C		X			X		
	0915	CVØ661B-CS-SP	C		X			X		
	0906	CVØ661C-CS-SP	C		X			X		
	1355	CVØ886A-CS-SP	C		X			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-11-13	1530						
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]	04/12/13	0950	YES ○ NO ○		680 89275	2.2 °C

TAL8240-680 (1008)

Serial Number 59205

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☑ **TestAmerica Savannah**
5102 LaRoche Avenue
Savannah, GA 31404

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

◯ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005148-1356
PROJECT LOCATION (STATE): AL

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:

MATRIX TYPE / REQUIRED ANALYSIS / PRESERVATIVE / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA 8 Metals								REMARKS
1405	4-10-13	CV0886B - CS-SP	C		X			X									
1415		CV0877A - CS (sieve)	C		X				X								
0950		CV1086A - CS (sieve)	C		X				X								
0900		CV1091A - CS (sieve)	C		X				X								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-11-13	1530						
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]	04/12/13	0950	YES ◯ NO ◯		680-89275	2.2°C

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-2
SDG Number: 68089275-2

Login Number: 89275
List Source: TestAmerica Savannah
List Number: 1
Creator: Barnett, Eddie T

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-2
SDG Number: 68089275-2

Login Number: 89275
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 04/13/13 11:04 AM

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-89275-2
TestAmerica Sample Delivery Group: 68089275-2
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:
4/24/2013 2:10:52 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

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

Job ID: 680-89275-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89275-2

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 04/12/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0661A-CS-SP (680-89275-21), CV0661B-CS-SP (680-89275-22), CV0661C-CS-SP (680-89275-23), CV0886A-CS-SP (680-89275-24) and CV0886B-CS-SP (680-89275-25) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/16/2013, 04/17/2013 and 04/18/2013 and analyzed on 04/17/2013, 04/18/2013 and 04/22/2013.

Samples CV0661B-CS-SP (680-89275-22)[4X], CV0886A-CS-SP (680-89275-24)[100X], CV0886A-CS-SP (680-89275-24)[20X], CV0886A-CS-SP (680-89275-24)[4X], CV0886B-CS-SP (680-89275-25)[10X] and CV0886B-CS-SP (680-89275-25)[25X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl recovered outside the surrogate recovery criteria low for CV0886B-CS-SP (680-89275-25).

Several analytes recovered outside the recovery criteria low for the MS/MSD of sample 680-89220-41 in batch 660-136655.

Fluoranthene recovered outside the recovery criteria for the MSD of sample CV0661A-CS-SP (680-89275-21) in batch 660-136733.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-89275-2 in batch 660-136590. Fluoranthene, Phenanthrene and Pyrene exceeded the rpd limit.

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: 680-89275-2
SDG: 68089275-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89275-21	CV0661A-CS-SP	Solid	04/10/13 08:55	04/12/13 09:50
680-89275-22	CV0661B-CS-SP	Solid	04/10/13 09:15	04/12/13 09:50
680-89275-23	CV0661C-CS-SP	Solid	04/10/13 09:06	04/12/13 09:50
680-89275-24	CV0886A-CS-SP	Solid	04/10/13 13:55	04/12/13 09:50
680-89275-25	CV0886B-CS-SP	Solid	04/10/13 14:05	04/12/13 09:50

Method Summary

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

TestAmerica Job ID: 680-89275-2
SDG: 68089275-2

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
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.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

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: 680-89275-2
SDG: 68089275-2

Client Sample ID: CV0661A-CS-SP

Lab Sample ID: 680-89275-21

Date Collected: 04/10/13 08:55
Date Received: 04/12/13 09:50

Matrix: Solid
Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	27	J	130	26	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Acenaphthylene	320		52	6.5	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Anthracene	250		11	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Benzo[a]anthracene	860		10	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Benzo[a]pyrene	870		14	6.8	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Benzo[b]fluoranthene	1500		16	7.9	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Benzo[g,h,i]perylene	790		26	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Benzo[k]fluoranthene	480		10	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Chrysene	980		12	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Dibenz(a,h)anthracene	240		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Fluoranthene	1400	F	26	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Fluorene	45		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Indeno[1,2,3-cd]pyrene	690		26	9.2	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
1-Methylnaphthalene	130		52	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
2-Methylnaphthalene	170		52	9.2	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Naphthalene	280		52	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Phenanthrene	600		10	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1
Pyrene	1000		26	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/18/13 15:43*	*04/22/13 12:15*	*1*

Client Sample ID: CV0661B-CS-SP

Lab Sample ID: 680-89275-22

Date Collected: 04/10/13 09:15
Date Received: 04/12/13 09:50

Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Acenaphthylene	210		200	25	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Anthracene	240		43	21	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Benzo[a]anthracene	1400		41	20	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Benzo[a]pyrene	1100		53	27	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Benzo[b]fluoranthene	1800		62	31	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Benzo[g,h,i]perylene	700		100	22	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Benzo[k]fluoranthene	600		41	18	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Chrysene	1400		46	23	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Dibenz(a,h)anthracene	440		100	21	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Fluoranthene	2400		100	20	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Fluorene	60	J	100	21	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Indeno[1,2,3-cd]pyrene	740		100	36	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
1-Methylnaphthalene	220		200	22	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
2-Methylnaphthalene	320		200	36	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Naphthalene	190	J	200	22	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Phenanthrene	1600		41	20	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4
Pyrene	2200		100	19	ug/Kg	☼	04/16/13 07:00	04/17/13 17:19	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*04/16/13 07:00*	*04/17/13 17:19*	*4*

Client Sample ID: CV0661C-CS-SP

Lab Sample ID: 680-89275-23

Date Collected: 04/10/13 09:06
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Acenaphthylene	**60**		49	6.2	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Anthracene	**89**		10	5.2	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Benzo[a]anthracene	**420**		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Benzo[a]pyrene	**390**		13	6.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Benzo[b]fluoranthene	**680**		15	7.5	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Benzo[g,h,i]perylene	**320**		25	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Benzo[k]fluoranthene	**280**		9.9	4.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Chrysene	**490**		11	5.6	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Dibenz(a,h)anthracene	**120**		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Fluoranthene	**490**		25	4.9	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Fluorene	**33**		25	5.1	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Indeno[1,2,3-cd]pyrene	**300**		25	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
1-Methylnaphthalene	**170**		49	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
2-Methylnaphthalene	**210**		49	8.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Naphthalene	**170**		49	5.4	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Phenanthrene	**380**		9.9	4.8	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1
Pyrene	**440**		25	4.6	ug/Kg	☼	04/16/13 07:00	04/17/13 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*48*		*30 - 130*	*04/16/13 07:00*	*04/17/13 17:38*	*1*

Client Sample ID: CV0886A-CS-SP

Lab Sample ID: 680-89275-24

Date Collected: 04/10/13 13:55
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**3100**		200	26	ug/Kg	☼	04/16/13 07:00	04/18/13 14:50	4
1-Methylnaphthalene	**5700**		200	22	ug/Kg	☼	04/16/13 07:00	04/18/13 14:50	4
2-Methylnaphthalene	**6000**		200	36	ug/Kg	☼	04/16/13 07:00	04/18/13 14:50	4
Naphthalene	**15000**		200	22	ug/Kg	☼	04/16/13 07:00	04/18/13 14:50	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*53*		*30 - 130*	*04/16/13 07:00*	*04/18/13 14:50*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**22000**		2600	510	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20
Anthracene	**48000**		210	110	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20
Benzo[g,h,i]perylene	**62000**		510	110	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20
Benzo[k]fluoranthene	**51000**		200	92	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20
Dibenz(a,h)anthracene	**28000**		510	100	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20
Fluorene	**22000**		510	100	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20
Indeno[1,2,3-cd]pyrene	**66000**		510	180	ug/Kg	☼	04/16/13 07:00	04/18/13 15:19	20

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**110000**		1000	500	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100
Benzo[a]pyrene	**91000**		1300	660	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100
Benzo[b]fluoranthene	**140000**		1600	780	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100

Client Sample ID: CV0886A-CS-SP

Lab Sample ID: 680-89275-24

Date Collected: 04/10/13 13:55
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 78.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL2 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	100000		1100	570	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100
Fluoranthene	280000		2600	510	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100
Phenanthrene	190000		1000	500	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100
Pyrene	180000		2600	470	ug/Kg	☼	04/16/13 07:00	04/18/13 15:48	100

Client Sample ID: CV0886B-CS-SP

Lab Sample ID: 680-89275-25

Date Collected: 04/10/13 14:05
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 68.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	6500		1400	290	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Acenaphthylene	700		570	72	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Anthracene	11000		120	60	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Benzo[a]anthracene	34000		110	56	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Benzo[a]pyrene	27000		150	75	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Benzo[b]fluoranthene	46000		180	88	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Benzo[g,h,i]perylene	17000		290	63	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Benzo[k]fluoranthene	19000		110	52	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Chrysene	30000		130	65	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Dibenz(a,h)anthracene	5400		290	59	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Fluorene	5900		290	59	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Indeno[1,2,3-cd]pyrene	15000		290	100	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
1-Methylnaphthalene	2000		570	63	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
2-Methylnaphthalene	2300		570	100	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10
Naphthalene	5300		570	63	ug/Kg	☼	04/17/13 16:34	04/22/13 14:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*30 - 130*	*04/17/13 16:34*	*04/22/13 14:05*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	63000		720	140	ug/Kg	☼	04/17/13 16:34	04/22/13 14:51	25
Phenanthrene	43000		290	140	ug/Kg	☼	04/17/13 16:34	04/22/13 14:51	25
Pyrene	41000		720	130	ug/Kg	☼	04/17/13 16:34	04/22/13 14:51	25

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

Lab Sample ID: MB 660-136462/1-A
Matrix: Solid
Analysis Batch: 136590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Fluorene	20	U	20	4.1	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Naphthalene	40	U	40	4.4	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/16/13 07:00	04/17/13 10:54	1
Pyrene	20	U	20	3.7	ug/Kg		04/16/13 07:00	04/17/13 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*04/16/13 07:00*	*04/17/13 10:54*	*1*

Lab Sample ID: LCS 660-136462/2-A
Matrix: Solid
Analysis Batch: 136590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	657	354		ug/Kg		54	39 - 130
Acenaphthylene	657	363		ug/Kg		55	38 - 130
Anthracene	657	424		ug/Kg		65	37 - 130
Benzo[a]anthracene	657	398		ug/Kg		61	40 - 130
Benzo[a]pyrene	657	358		ug/Kg		54	49 - 130
Benzo[b]fluoranthene	657	432		ug/Kg		66	37 - 130
Benzo[g,h,i]perylene	657	399		ug/Kg		61	32 - 130
Benzo[k]fluoranthene	657	380		ug/Kg		58	32 - 130
Chrysene	657	402		ug/Kg		61	41 - 130
Dibenz(a,h)anthracene	657	426		ug/Kg		65	27 - 130
Fluoranthene	657	381		ug/Kg		58	40 - 130
Fluorene	657	395		ug/Kg		60	40 - 130
Indeno[1,2,3-cd]pyrene	657	392		ug/Kg		60	30 - 130
1-Methylnaphthalene	657	392		ug/Kg		60	31 - 130
2-Methylnaphthalene	657	388		ug/Kg		59	33 - 130
Naphthalene	657	381		ug/Kg		58	36 - 130
Phenanthrene	657	391		ug/Kg		59	42 - 130
Pyrene	657	394		ug/Kg		60	44 - 130

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

Lab Sample ID: LCS 660-136462/2-A
Matrix: Solid
Analysis Batch: 136590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136462

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	64		30 - 130

Lab Sample ID: MB 660-136551/1-A
Matrix: Solid
Analysis Batch: 136655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136551

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Fluorene	20	U	20	4.1	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Naphthalene	40	U	40	4.4	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		04/17/13 16:34	04/19/13 14:23	1
Pyrene	20	U	20	3.7	ug/Kg		04/17/13 16:34	04/19/13 14:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	57		30 - 130	04/17/13 16:34	04/19/13 14:23	1

Lab Sample ID: LCS 660-136551/2-A
Matrix: Solid
Analysis Batch: 136655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	663	524		ug/Kg		79	39 - 130
Acenaphthylene	663	490		ug/Kg		74	38 - 130
Anthracene	663	540		ug/Kg		81	37 - 130
Benzo[a]anthracene	663	569		ug/Kg		86	40 - 130
Benzo[a]pyrene	663	435		ug/Kg		66	49 - 130
Benzo[b]fluoranthene	663	519		ug/Kg		78	37 - 130
Benzo[g,h,i]perylene	663	483		ug/Kg		73	32 - 130
Benzo[k]fluoranthene	663	563		ug/Kg		85	32 - 130
Chrysene	663	567		ug/Kg		86	41 - 130
Dibenz(a,h)anthracene	663	544		ug/Kg		82	27 - 130
Fluoranthene	663	525		ug/Kg		79	40 - 130
Fluorene	663	494		ug/Kg		74	40 - 130
Indeno[1,2,3-cd]pyrene	663	536		ug/Kg		81	30 - 130
1-Methylnaphthalene	663	461		ug/Kg		70	31 - 130

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

Lab Sample ID: LCS 660-136551/2-A
Matrix: Solid
Analysis Batch: 136655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	663	473		ug/Kg		71	33 - 130
Naphthalene	663	495		ug/Kg		75	36 - 130
Phenanthrene	663	505		ug/Kg		76	42 - 130
Pyrene	663	495		ug/Kg		75	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*74*		*30 - 130*

Lab Sample ID: MB 660-136604/1-A
Matrix: Solid
Analysis Batch: 136733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	98	U	98	20	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Dibenz(a,h)anthracene	20	U	20	4.0	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Fluoranthene	20	U	20	3.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Fluorene	20	U	20	4.0	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Indeno[1,2,3-cd]pyrene	20	U	20	6.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Naphthalene	39	U	39	4.3	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Pyrene	20	U	20	3.6	ug/Kg		04/18/13 15:43	04/22/13 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*30 - 130*	*04/18/13 15:43*	*04/22/13 11:30*	*1*

Lab Sample ID: LCS 660-136604/2-A
Matrix: Solid
Analysis Batch: 136733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	660	450		ug/Kg		68	39 - 130
Acenaphthylene	660	469		ug/Kg		71	38 - 130
Anthracene	660	453		ug/Kg		69	37 - 130
Benzo[a]anthracene	660	476		ug/Kg		72	40 - 130
Benzo[a]pyrene	660	427		ug/Kg		65	49 - 130
Benzo[b]fluoranthene	660	482		ug/Kg		73	37 - 130
Benzo[g,h,i]perylene	660	480		ug/Kg		73	32 - 130
Benzo[k]fluoranthene	660	482		ug/Kg		73	32 - 130

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

Lab Sample ID: LCS 660-136604/2-A
Matrix: Solid
Analysis Batch: 136733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136604

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chrysene			660	459		ug/Kg		70	41 - 130		
Dibenz(a,h)anthracene			660	501		ug/Kg		76	27 - 130		
Fluoranthene			660	479		ug/Kg		73	40 - 130		
Fluorene			660	481		ug/Kg		73	40 - 130		
Indeno[1,2,3-cd]pyrene			660	481		ug/Kg		73	30 - 130		
1-Methylnaphthalene			660	467		ug/Kg		71	31 - 130		
2-Methylnaphthalene			660	455		ug/Kg		69	33 - 130		
Naphthalene			660	440		ug/Kg		67	36 - 130		
Phenanthrene			660	444		ug/Kg		67	42 - 130		
Pyrene			660	448		ug/Kg		68	44 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*69*		*30 - 130*

Lab Sample ID: 680-89275-21 MS
Matrix: Solid
Analysis Batch: 136733

Client Sample ID: CV0661A-CS-SP
Prep Type: Total/NA
Prep Batch: 136604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene	27	J	868	478		ug/Kg	☼	52	39 - 130		
Acenaphthylene	320		868	865		ug/Kg	☼	62	38 - 130		
Anthracene	250		868	754		ug/Kg	☼	58	37 - 130		
Benzo[a]anthracene	860		868	1430		ug/Kg	☼	66	40 - 130		
Benzo[a]pyrene	870		868	1360		ug/Kg	☼	56	49 - 130		
Benzo[b]fluoranthene	1500		868	2150		ug/Kg	☼	70	37 - 130		
Benzo[g,h,i]perylene	790		868	1150		ug/Kg	☼	42	32 - 130		
Benzo[k]fluoranthene	480		868	1060		ug/Kg	☼	68	32 - 130		
Chrysene	980		868	1470		ug/Kg	☼	57	41 - 130		
Dibenz(a,h)anthracene	240		868	765		ug/Kg	☼	60	27 - 130		
Fluoranthene	1400	F	868	2060		ug/Kg	☼	72	40 - 130		
Fluorene	45		868	512		ug/Kg	☼	54	40 - 130		
Indeno[1,2,3-cd]pyrene	690		868	1150		ug/Kg	☼	52	30 - 130		
1-Methylnaphthalene	130		868	603		ug/Kg	☼	55	31 - 130		
2-Methylnaphthalene	170		868	659		ug/Kg	☼	56	33 - 130		
Naphthalene	280		868	832		ug/Kg	☼	64	36 - 130		
Phenanthrene	600		868	1090		ug/Kg	☼	57	42 - 130		
Pyrene	1000		868	1510		ug/Kg	☼	55	44 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*54*		*30 - 130*

Lab Sample ID: 680-89275-21 MSD
Matrix: Solid
Analysis Batch: 136733

Client Sample ID: CV0661A-CS-SP
Prep Type: Total/NA
Prep Batch: 136604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	27	J	868	571		ug/Kg	☼	63	39 - 130	18	40
Acenaphthylene	320		868	1010		ug/Kg	☼	79	38 - 130	16	40

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

Lab Sample ID: 680-89275-21 MSD
Matrix: Solid
Analysis Batch: 136733

Client Sample ID: CV0661A-CS-SP
Prep Type: Total/NA
Prep Batch: 136604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	250		868	957		ug/Kg	☼	81	37 - 130	24	40
Benzo[a]anthracene	860		868	1750		ug/Kg	☼	103	40 - 130	20	40
Benzo[a]pyrene	870		868	1700		ug/Kg	☼	96	49 - 130	22	40
Benzo[b]fluoranthene	1500		868	2660		ug/Kg	☼	128	37 - 130	21	40
Benzo[g,h,i]perylene	790		868	1270		ug/Kg	☼	55	32 - 130	9	40
Benzo[k]fluoranthene	480		868	1260		ug/Kg	☼	90	32 - 130	17	40
Chrysene	980		868	1870		ug/Kg	☼	102	41 - 130	24	40
Dibenz(a,h)anthracene	240		868	865		ug/Kg	☼	72	27 - 130	12	40
Fluoranthene	1400	F	868	2660	F	ug/Kg	☼	141	40 - 130	25	40
Fluorene	45		868	641		ug/Kg	☼	69	40 - 130	22	40
Indeno[1,2,3-cd]pyrene	690		868	1290		ug/Kg	☼	69	30 - 130	12	40
1-Methylnaphthalene	130		868	722		ug/Kg	☼	69	31 - 130	18	40
2-Methylnaphthalene	170		868	778		ug/Kg	☼	70	33 - 130	17	40
Naphthalene	280		868	973		ug/Kg	☼	80	36 - 130	16	40
Phenanthrene	600		868	1420		ug/Kg	☼	95	42 - 130	27	40
Pyrene	1000		868	1850		ug/Kg	☼	94	44 - 130	20	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*65*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 136462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-22	CV0661B-CS-SP	Total/NA	Solid	3546	
680-89275-23	CV0661C-CS-SP	Total/NA	Solid	3546	
680-89275-24 - DL	CV0886A-CS-SP	Total/NA	Solid	3546	
680-89275-24 - DL2	CV0886A-CS-SP	Total/NA	Solid	3546	
680-89275-24	CV0886A-CS-SP	Total/NA	Solid	3546	
LCS 660-136462/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136462/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-25	CV0886B-CS-SP	Total/NA	Solid	3546	
680-89275-25 - DL	CV0886B-CS-SP	Total/NA	Solid	3546	
LCS 660-136551/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136551/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-22	CV0661B-CS-SP	Total/NA	Solid	8270C LL	136462
680-89275-23	CV0661C-CS-SP	Total/NA	Solid	8270C LL	136462
LCS 660-136462/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136462
MB 660-136462/1-A	Method Blank	Total/NA	Solid	8270C LL	136462

Analysis Batch: 136591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-24 - DL	CV0886A-CS-SP	Total/NA	Solid	8270C LL	136462
680-89275-24 - DL2	CV0886A-CS-SP	Total/NA	Solid	8270C LL	136462
680-89275-24	CV0886A-CS-SP	Total/NA	Solid	8270C LL	136462

Prep Batch: 136604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-21	CV0661A-CS-SP	Total/NA	Solid	3546	
680-89275-21 MS	CV0661A-CS-SP	Total/NA	Solid	3546	
680-89275-21 MSD	CV0661A-CS-SP	Total/NA	Solid	3546	
LCS 660-136604/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136604/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-136551/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136551
MB 660-136551/1-A	Method Blank	Total/NA	Solid	8270C LL	136551

Analysis Batch: 136698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-25	CV0886B-CS-SP	Total/NA	Solid	8270C LL	136551
680-89275-25 - DL	CV0886B-CS-SP	Total/NA	Solid	8270C LL	136551

Analysis Batch: 136733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-21	CV0661A-CS-SP	Total/NA	Solid	8270C LL	136604
680-89275-21 MS	CV0661A-CS-SP	Total/NA	Solid	8270C LL	136604
680-89275-21 MSD	CV0661A-CS-SP	Total/NA	Solid	8270C LL	136604

GC/MS Semi VOA (Continued)

Analysis Batch: 136733 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-136604/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136604
MB 660-136604/1-A	Method Blank	Total/NA	Solid	8270C LL	136604

General Chemistry

Analysis Batch: 136437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-21	CV0661A-CS-SP	Total/NA	Solid	Moisture	
680-89275-21 MS	CV0661A-CS-SP	Total/NA	Solid	Moisture	
680-89275-21 MSD	CV0661A-CS-SP	Total/NA	Solid	Moisture	
680-89275-22	CV0661B-CS-SP	Total/NA	Solid	Moisture	
680-89275-23	CV0661C-CS-SP	Total/NA	Solid	Moisture	
680-89275-24	CV0886A-CS-SP	Total/NA	Solid	Moisture	
680-89275-25	CV0886B-CS-SP	Total/NA	Solid	Moisture	

Client Sample ID: CV0661A-CS-SP

Lab Sample ID: 680-89275-21
Date Collected: 04/10/13 08:55
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 12:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	AG	TAL TAM

Client Sample ID: CV0661B-CS-SP

Lab Sample ID: 680-89275-22
Date Collected: 04/10/13 09:15
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136590	04/17/13 17:19	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	AG	TAL TAM

Client Sample ID: CV0661C-CS-SP

Lab Sample ID: 680-89275-23
Date Collected: 04/10/13 09:06
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136590	04/17/13 17:38	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	AG	TAL TAM

Client Sample ID: CV0886A-CS-SP

Lab Sample ID: 680-89275-24
Date Collected: 04/10/13 13:55
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL	DL	20	136591	04/18/13 15:19	SCC	TAL TAM
Total/NA	Prep	3546	DL2		136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL	DL2	100	136591	04/18/13 15:48	SCC	TAL TAM
Total/NA	Prep	3546			136462	04/16/13 07:00	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136591	04/18/13 14:50	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	AG	TAL TAM

Client Sample ID: CV0886B-CS-SP

Lab Sample ID: 680-89275-25
Date Collected: 04/10/13 14:05
Matrix: Solid
Date Received: 04/12/13 09:50
Percent Solids: 68.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL		10	136698	04/22/13 14:05	SCC	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89275-2
SDG: 68089275-2

Client Sample ID: CV0886B-CS-SP
Date Collected: 04/10/13 14:05
Date Received: 04/12/13 09:50

Lab Sample ID: 680-89275-25
Matrix: Solid
Percent Solids: 68.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		136551	04/17/13 16:34	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	25	136698	04/22/13 14:51	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136437	04/15/13 11:33	AG	TAL TAM

Laboratory References:

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

Serial Number 59204

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.: 20057148-1356
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: 2 PAH	NUMBER OF CONTAINERS SUBMITTED	REMARKS
		PRESERVATIVE								
4-10-13	1325	CV1357A-CS	C		X			X		
	1335	CV1357B-CS	C		X			X		
	1045	CVØØ5ØA-CS-SP	C		X			X		
	1056	CVØ05ØB-CS-SP	C		X			X		
	0948	CVØ133A-CS-SP	C		X			X		
	1005	CVØ133B-CS-SP	C		X			X		
	1435	CVØ318A-CS-SP	C		X			X		
	1445	CVØ318B-CS-SP	C		X			X		
	0855	CVØ661A-CS-SP	C		X			X		
	0915	CVØ661B-CS-SP	C		X			X		
	0926	CVØ661C-CS-SP	C		X			X		
	1355	CVØ886A-CS-SP	C		X			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4-11-13	1530						
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
	04/14/13	0950	YES ○ NO ○		680 89275	2.2 °C

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TAL8240-680 (1008)

Serial Number 59205

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.: 200S148-1356
PROJECT LOCATION (STATE): 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	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 22 PAH	REQUIRED ANALYSIS: RCRA 8 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1405	4-10-13	CV0886B - CS - SP	C		X			X			
1415		CV0877A - CS (sieve)	C		X				X		
0950		CV1086A - CS (sieve)	C		X				X		
0900		CV1091A - CS (sieve)	C		X				X		

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-11-13	1530						
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]	04/12/13	0950	YES ( ) NO ( )		680 - 89275	2.2 °C

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4/12/2013

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-2
SDG Number: 68089275-2

Login Number: 89275
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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: 680-89275-2
SDG Number: 68089275-2

Login Number: 89275
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 04/13/13 11:04 AM

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

Certification Summary

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

TestAmerica Job ID: 680-89275-2
SDG: 68089275-2

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
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
Georgia	State Program	4	905	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: 680-89275-2
SDG: 68089275-2

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
USDA	Federal		P330-11-00177	04-20-14