

REDACTED

Data Validation Checklist Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Karen Marie Trujillo, URS Group, Inc.
 Concurrence²: Jenine Abbassi, URS Group, Inc.

Project No: 15268508.20000
 Job ID.: 680-90855-2
 Associated Samples: Refer to Attachment A (Sample Summary)
 Samples Collected: 05/30/2013
 Date: 06/27/2013
 Date: 06/30/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?			✓	A rinsate blank was not collected for the week of 5/27/13.	

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. However, a rinsate blank, was not collected during the week of 5/27/13.	
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: BSMD5973 - Initial Calibration: 05/23/2013 - ICV: 05/23/13 @ 15:41 - CCV: 06/07/13 @ 12:17 - CCV: 06/11/13 @ 12:00	
19. Were calibration results within laboratory/project specifications? - ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): - If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects - If mean RRF < 0.050 (< 0.010 for poor performers), then J-flag positive results and R-flag non-detects - ICV and CCV (Criteria: $\leq 20\% D$ ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)):	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds.					
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 138156: 680-90855-22 (CV1285A-CS), MS/MSD • Prep Batch 138190: 680-91068-12 (Batch sample), MS/MSD. Lab sample 680-91068-12 is a project-specific sample (CV0027A-CS-SP) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-91068-1.	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results	✓				
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result.	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN, with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results.	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	✓				
29. Were lab comments included in report?	✓			Refer to Attachment B (Case Narrative)	
Comments: The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process (Attachment C). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

Data Validation Checklist (Continued)

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: 680-90855-2
SDG: 68090855-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90855-21	CV1285A-CS	Solid	05/30/13 13:20	05/31/13 08:53
680-90855-22	CV1285B-CS	Solid	05/30/13 13:30	05/31/13 08:53
680-90855-23	CV1285C-CS	Solid	05/30/13 13:35	05/31/13 08:53

ATTACHMENT B
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

Job ID: 680-90855-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90855-2

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 05/31/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1285A-CS (680-90855-21), CV1285B-CS (680-90855-22) and CV1285C-CS (680-90855-23) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/06/2013 and 06/07/2013 and analyzed on 06/07/2013 and 06/11/2013.

Sample CV1285C CS (680 90855 23)[4] required dilution prior to analysis The reporting limits have been adjusted accordingly

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-91068-12 in batch 660-138352. Several analytes also exceeded the RPD limit.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

ATTACHMENT C
QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

Client Sample ID: CV1285A-CS

Lab Sample ID: 680-90855-21

Date Collected: 05/30/13 13:20

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Acenaphthylene	13	J	41	5.2	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Anthracene	25		8.7	4.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Benzo[a]anthracene	82		8.3	4.0	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Benzo[a]pyrene	94		11	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Benzo[b]fluoranthene	160		13	6.3	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Benzo[g,h,i]perylene	89		21	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Benzo[k]fluoranthene	51		8.3	3.7	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Chrysene	130		9.3	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Dibenz(a,h)anthracene	28		21	4.2	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Fluoranthene	170		21	4.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Fluorene	10	J	21	4.2	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Indeno[1,2,3-cd]pyrene	80		21	7.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
1-Methylnaphthalene	45		41	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
2-Methylnaphthalene	69		41	7.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Naphthalene	48		41	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Phenanthrene	140		8.3	4.0	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Pyrene	140		21	3.8	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	58		30 - 130	06/06/13 14:10	06/07/13 20:40	1

Client Sample ID: CV1285B-CS

Lab Sample ID: 680-90855-22

Date Collected: 05/30/13 13:30

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Acenaphthylene	9.9	J	46	5.7	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Anthracene	22		9.6	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Benzo[a]anthracene	82		9.1	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Benzo[a]pyrene	83		12	5.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Benzo[b]fluoranthene	160		14	7.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Benzo[g,h,i]perylene	58		23	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Benzo[k]fluoranthene	47		9.1	4.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Chrysene	120		10	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Dibenz(a,h)anthracene	23		23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Fluoranthene	140		23	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Fluorene	9.1	J	23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Indeno[1,2,3-cd]pyrene	61		23	8.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
1-Methylnaphthalene	69		46	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
2-Methylnaphthalene	110		46	8.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Naphthalene	130		46	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Phenanthrene	140		9.1	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Pyrene	110		23	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	41		30 - 130	06/07/13 10:07	06/11/13 19:54	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

Client Sample ID: CV1285C-CS

Lab Sample ID: 680-90855-23

Date Collected: 05/30/13 13:35

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	450	U	450	89	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Acenaphthylene	180	U	180	22	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Anthracene	80		38	19	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Benzo[a]anthracene	290		36	17	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Benzo[a]pyrene	310		47	23	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Benzo[b]fluoranthene	510		55	27	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Benzo[g,h,i]perylene	180		89	20	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Benzo[k]fluoranthene	160		36	16	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Chrysene	330		40	20	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Dibenz(a,h)anthracene	75 J		89	18	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Fluoranthene	470		89	18	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Fluorene	37 J		89	18	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Indeno[1,2,3-cd]pyrene	200		89	32	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
1-Methylnaphthalene	100 J		180	20	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
2-Methylnaphthalene	170 J		180	32	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Naphthalene	160 J		180	20	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Phenanthrene	430		36	17	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Pyrene	400		89	17	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				06/07/13 10:07	06/11/13 20:16	4

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

ANALYTICAL REPORT

Job Number: 680-90855-2

SDG Number: 68090855-2

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
6/14/2013 5:18 PM

Designee for

Lisa Harvey, Project Manager II

5102 LaRoche Avenue, Savannah, GA, 31404

(912)354-7858 e.3221

lisa.harvey@testamericainc.com

06/14/2013

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

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

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90855-2

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 05/31/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1285A-CS (680-90855-21), CV1285B-CS (680-90855-22) and CV1285C-CS (680-90855-23) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/06/2013 and 06/07/2013 and analyzed on 06/07/2013 and 06/11/2013.

Sample CV1285C-CS (680-90855-23)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-91068-12 in batch 660-138352. Several analytes also exceeded the RPD limit.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-2

Sdg Number: 68090855-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-90855-21	CV1285A-CS	Solid	05/30/2013 1320	05/31/2013 0853
680-90855-21MS	CV1285A-CS	Solid	05/30/2013 1320	05/31/2013 0853
680-90855-21MSD	CV1285A-CS	Solid	05/30/2013 1320	05/31/2013 0853
680-90855-22	CV1285B-CS	Solid	05/30/2013 1330	05/31/2013 0853
680-90855-23	CV1285C-CS	Solid	05/30/2013 1335	05/31/2013 0853

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-2

Sdg Number: 68090855-2

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: 680-90855-2

Sdg Number: 68090855-2

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: 680-90855-2

Sdg Number: 68090855-2

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

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-2

Sdg Number: 68090855-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-138156					
LCS 660-138156/2-A	Lab Control Sample	T	Solid	3546	
MB 660-138156/1-A	Method Blank	T	Solid	3546	
680-90855-21	CV1285A-CS	T	Solid	3546	
680-90855-21MS	Matrix Spike	T	Solid	3546	
680-90855-21MSD	Matrix Spike Duplicate	T	Solid	3546	
Prep Batch: 660-138190					
LCS 660-138190/2-A	Lab Control Sample	T	Solid	3546	
MB 660-138190/1-A	Method Blank	T	Solid	3546	
680-90855-22	CV1285B-CS	T	Solid	3546	
680-90855-23	CV1285C-CS	T	Solid	3546	
680-91068-A-12-B MS	Matrix Spike	T	Solid	3546	
680-91068-A-12-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-138205					
LCS 660-138156/2-A	Lab Control Sample	T	Solid	8270C LL	660-138156
MB 660-138156/1-A	Method Blank	T	Solid	8270C LL	660-138156
680-90855-21	CV1285A-CS	T	Solid	8270C LL	660-138156
680-90855-21MS	Matrix Spike	T	Solid	8270C LL	660-138156
680-90855-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-138156
Analysis Batch:660-138352					
LCS 660-138190/2-A	Lab Control Sample	T	Solid	8270C LL	660-138190
MB 660-138190/1-A	Method Blank	T	Solid	8270C LL	660-138190
680-90855-22	CV1285B-CS	T	Solid	8270C LL	660-138190
680-90855-23	CV1285C-CS	T	Solid	8270C LL	660-138190
680-91068-A-12-B MS	Matrix Spike	T	Solid	8270C LL	660-138190
680-91068-A-12-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-138190

Report Basis

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-2

Sdg Number: 68090855-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-137974					
680-90855-21	CV1285A-CS	T	Solid	Moisture	
680-90855-21MS	Matrix Spike	T	Solid	Moisture	
680-90855-21MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-137998					
LCS 660-137998/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-137998/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-90855-22	CV1285B-CS	T	Solid	Moisture	
680-90855-23	CV1285C-CS	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2SDG No.: 68090855-2Instrument ID: BSMD5973 Analysis Batch Number: 137830Lab Sample ID: IC 660-137830/3 Client Sample ID: _____Date Analyzed: 05/23/13 13:03 Lab File ID: 1DE23003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	15.15	Baseline Event	cantins	05/28/13 11:36
Benzo[g,h,i]perylene	15.57	Baseline Event	cantins	05/28/13 11:37

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2SDG No.: 68090855-2Instrument ID: BSMD5973 Analysis Batch Number: 138205Lab Sample ID: 680-90855-21 Client Sample ID: CV1285A-CSDate Analyzed: 06/07/13 20:40 Lab File ID: 1DF07026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	06/09/13 10:19

Lab Sample ID: 680-90855-21 MS Client Sample ID: CV1285A-CS MSDate Analyzed: 06/07/13 21:02 Lab File ID: 1DF07027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.11	Split Peak	cantins	06/09/13 10:19

Lab Sample ID: 680-90855-21 MSD Client Sample ID: CV1285A-CS MSDDate Analyzed: 06/07/13 21:25 Lab File ID: 1DF07028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.11	Split Peak	cantins	06/09/13 10:20

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2SDG No.: 68090855-2Instrument ID: BSMD5973 Analysis Batch Number: 138352Lab Sample ID: LCS 660-138190/2-A Client Sample ID: _____Date Analyzed: 06/11/13 13:08 Lab File ID: 1DF11006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	06/12/13 12:06

Lab Sample ID: 680-90855-22 Client Sample ID: CV1285B-CSDate Analyzed: 06/11/13 19:54 Lab File ID: 1DF11024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.14	Split Peak	cantins	06/12/13 12:26

Lab Sample ID: 680-90855-23 Client Sample ID: CV1285C-CSDate Analyzed: 06/11/13 20:16 Lab File ID: 1DF11025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.13	Split Peak	cantins	06/12/13 12:27

Lab Sample ID: 680-91068-A-12-B MS Client Sample ID: _____Date Analyzed: 06/11/13 21:01 Lab File ID: 1DF11027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.16	Split Peak	cantins	06/12/13 12:29

Lab Sample ID: 680-91068-A-12-C MSD Client Sample ID: _____Date Analyzed: 06/11/13 21:24 Lab File ID: 1DF11028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.17	Split Peak	cantins	06/12/13 12:29

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.: 680-90855-2

SDG No.: 68090855-2

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1285A-CS	680-90855-21	58
CV1285B-CS	680-90855-22	41
CV1285C-CS	680-90855-23	53
	MB 660-138156/1-A	71
	MB 660-138190/1-A	83
	LCS 660-138156/2-A	75
	LCS 660-138190/2-A	62
	680-91068-A-12-B MS	51
CV1285A-CS MS	680-90855-21 MS	60
	680-91068-A-12-C MSD	52
CV1285A-CS MSD	680-90855-21 MSD	64

OTPH = o-Terphenyl

QC LIMITS
30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Matrix: Solid Level: Low Lab File ID: 1DF07016.D
 Lab ID: LCS 660-138156/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	669	504	75	39-130	
Acenaphthylene	669	551	82	38-130	
Anthracene	669	555	83	37-130	
Benzo[a]anthracene	669	486	73	40-130	
Benzo[a]pyrene	669	496	74	49-130	
Benzo[b]fluoranthene	669	541	81	37-130	
Benzo[g,h,i]perylene	669	555	83	32-130	
Benzo[k]fluoranthene	669	537	80	32-130	
Chrysene	669	492	74	41-130	
Dibenz(a,h)anthracene	669	532	80	27-130	
Fluoranthene	669	539	81	40-130	
Fluorene	669	547	82	40-130	
Indeno[1,2,3-cd]pyrene	669	512	77	30-130	
1-Methylnaphthalene	669	509	76	31-130	
2-Methylnaphthalene	669	541	81	33-130	
Naphthalene	669	523	78	36-130	
Phenanthrene	669	531	79	42-130	
Pyrene	669	508	76	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Matrix: Solid Level: Low Lab File ID: 1DF11006.D
 Lab ID: LCS 660-138190/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	667	407	61	39-130	
Acenaphthylene	667	445	67	38-130	
Anthracene	667	439	66	37-130	
Benzo[a]anthracene	667	399	60	40-130	
Benzo[a]pyrene	667	398	60	49-130	
Benzo[b]fluoranthene	667	451	68	37-130	
Benzo[g,h,i]perylene	667	414	62	32-130	
Benzo[k]fluoranthene	667	426	64	32-130	
Chrysene	667	382	57	41-130	
Dibenz(a,h)anthracene	667	408	61	27-130	
Fluoranthene	667	435	65	40-130	
Fluorene	667	452	68	40-130	
Indeno[1,2,3-cd]pyrene	667	391	59	30-130	
1-Methylnaphthalene	667	418	63	31-130	
2-Methylnaphthalene	667	446	67	33-130	
Naphthalene	667	417	62	36-130	
Phenanthrene	667	430	64	42-130	
Pyrene	667	413	62	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Matrix: Solid Level: Low Lab File ID: 1DF11027.D
 Lab ID: 680-91068-A-12-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	733	110 U	406	55	39-130	
Acenaphthylene	733	26 J	455	59	38-130	
Anthracene	733	45	454	56	37-130	
Benzo[a]anthracene	733	160	544	52	40-130	
Benzo[a]pyrene	733	160	487	44	49-130	F
Benzo[b]fluoranthene	733	320	789	64	37-130	
Benzo[g,h,i]perylene	733	100	311	28	32-130	F
Benzo[k]fluoranthene	733	87	491	55	32-130	
Chrysene	733	210	564	48	41-130	
Dibenz(a,h)anthracene	733	37	301	36	27-130	
Fluoranthene	733	280	744	63	40-130	
Fluorene	733	16 J	444	58	40-130	
Indeno[1,2,3-cd]pyrene	733	100	339	32	30-130	
1-Methylnaphthalene	733	76	472	54	31-130	
2-Methylnaphthalene	733	110	533	58	33-130	
Naphthalene	733	110	499	53	36-130	
Phenanthrene	733	220	663	60	42-130	
Pyrene	733	230	605	51	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Matrix: Solid Level: Low Lab File ID: 1DF07027.D
 Lab ID: 680-90855-21 MS Client ID: CV1285A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	685	100 U	415	61	39-130	
Acenaphthylene	685	13 J	448	63	38-130	
Anthracene	685	25	459	63	37-130	
Benzo[a]anthracene	685	82	484	59	40-130	
Benzo[a]pyrene	685	94	484	57	49-130	
Benzo[b]fluoranthene	685	160	593	63	37-130	
Benzo[g,h,i]perylene	685	89	521	63	32-130	
Benzo[k]fluoranthene	685	51	487	64	32-130	
Chrysene	685	130	522	57	41-130	
Dibenz(a,h)anthracene	685	28	429	59	27-130	
Fluoranthene	685	170	643	69	40-130	
Fluorene	685	10 J	447	64	40-130	
Indeno[1,2,3-cd]pyrene	685	80	480	58	30-130	
1-Methylnaphthalene	685	45	463	61	31-130	
2-Methylnaphthalene	685	69	531	67	33-130	
Naphthalene	685	48	463	61	36-130	
Phenanthrene	685	140	616	70	42-130	
Pyrene	685	140	585	65	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Matrix: Solid Level: Low Lab File ID: 1DF11028.D
 Lab ID: 680-91068-A-12-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	733	457	62	12	40	39-130	
Acenaphthylene	733	509	66	11	40	38-130	
Anthracene	733	569	71	22	40	37-130	
Benzo[a]anthracene	733	832	91	42	40	40-130	F
Benzo[a]pyrene	733	700	73	36	40	49-130	
Benzo[b]fluoranthene	733	1150	113	37	40	37-130	
Benzo[g,h,i]perylene	733	415	42	29	40	32-130	
Benzo[k]fluoranthene	733	669	79	31	40	32-130	
Chrysene	733	818	83	37	40	41-130	
Dibenz(a,h)anthracene	733	353	43	16	40	27-130	
Fluoranthene	733	1320	141	56	40	40-130	F
Fluorene	733	510	67	14	40	40-130	
Indeno[1,2,3-cd]pyrene	733	451	48	28	40	30-130	
1-Methylnaphthalene	733	566	67	18	40	31-130	
2-Methylnaphthalene	733	653	74	20	40	33-130	
Naphthalene	733	627	71	23	40	36-130	
Phenanthrene	733	1060	114	46	40	42-130	F
Pyrene	733	996	104	49	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Matrix: Solid Level: Low Lab File ID: 1DF07028.D
 Lab ID: 680-90855-21 MSD Client ID: CV1285A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	687	405	59	2	40	39-130	
Acenaphthylene	687	455	64	1	40	38-130	
Anthracene	687	450	62	2	40	37-130	
Benzo[a]anthracene	687	436	52	11	40	40-130	
Benzo[a]pyrene	687	431	49	11	40	49-130	
Benzo[b]fluoranthene	687	525	53	12	40	37-130	
Benzo[g,h,i]perylene	687	444	52	16	40	32-130	
Benzo[k]fluoranthene	687	444	57	9	40	32-130	
Chrysene	687	504	55	4	40	41-130	
Dibenz(a,h)anthracene	687	402	54	6	40	27-130	
Fluoranthene	687	550	55	16	40	40-130	
Fluorene	687	444	63	1	40	40-130	
Indeno[1,2,3-cd]pyrene	687	425	50	12	40	30-130	
1-Methylnaphthalene	687	443	58	4	40	31-130	
2-Methylnaphthalene	687	501	63	6	40	33-130	
Naphthalene	687	440	57	5	40	36-130	
Phenanthrene	687	541	59	13	40	42-130	
Pyrene	687	495	51	17	40	44-130	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
SDG No.: 68090855-2
Lab File ID: 1DF07012.D Lab Sample ID: MB 660-138156/1-A
Matrix: Solid Date Extracted: 06/06/2013 14:10
Instrument ID: BSMD5973 Date Analyzed: 06/07/2013 15:23
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-138156/2-A	1DF07016.D	06/07/2013 16:54
CV1285A-CS	680-90855-21	1DF07026.D	06/07/2013 20:40
CV1285A-CS MS	680-90855-21 MS	1DF07027.D	06/07/2013 21:02
CV1285A-CS MSD	680-90855-21 MSD	1DF07028.D	06/07/2013 21:25

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
SDG No.: 68090855-2
Lab File ID: 1DF11005.D Lab Sample ID: MB 660-138190/1-A
Matrix: Solid Date Extracted: 06/07/2013 10:07
Instrument ID: BSMD5973 Date Analyzed: 06/11/2013 12:45
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-138190/2-A	1DF11006.D	06/11/2013 13:08
CV1285B-CS	680-90855-22	1DF11024.D	06/11/2013 19:54
CV1285C-CS	680-90855-23	1DF11025.D	06/11/2013 20:16
	680-91068-A-12-B MS	1DF11027.D	06/11/2013 21:01
	680-91068-A-12-C MSD	1DF11028.D	06/11/2013 21:24

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

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
SDG No.: 68090855-2
Lab File ID: 1DE23002.D DFTPP Injection Date: 05/23/2013
Instrument ID: BSMD5973 DFTPP Injection Time: 11:20
Analysis Batch No.: 137830

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	55.4
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	53.5
70	Less than 2.0 % of mass 69	0.5 (0.9) 1
127	10.0 - 80.0 % of mass 198	56.5
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	6.6
275	10.0 - 60.0 % of mass 198	26.0
365	Greater than 1.0 % of mass 198	4.0
441	Present but less than mass 443	7.8
442	Greater than 50.0 % of mass 198	54.0
443	15.0 - 24.0 % of mass 442	9.9 (18.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-137830/3	1DE23003.D	05/23/2013	13:03
	IC 660-137830/4	1DE23004.D	05/23/2013	13:26
	IC 660-137830/5	1DE23005.D	05/23/2013	13:48
	IC 660-137830/6	1DE23006.D	05/23/2013	14:11
	ICIS 660-137830/7	1DE23007.D	05/23/2013	14:33
	IC 660-137830/8	1DE23008.D	05/23/2013	14:56
	IC 660-137830/9	1DE23009.D	05/23/2013	15:19
	ICV 660-137830/10	1DE23010.D	05/23/2013	15:41

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

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
SDG No.: 68090855-2
Lab File ID: 1DF07002.D DFTPP Injection Date: 06/07/2013
Instrument ID: BSMD5973 DFTPP Injection Time: 11:23
Analysis Batch No.: 138205

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	33.6
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	32.0
70	Less than 2.0 % of mass 69	0.0 (0.0) 1
127	10.0 - 80.0 % of mass 198	45.1
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.4
275	10.0 - 60.0 % of mass 198	28.6
365	Greater than 1.0 % of mass 198	4.9
441	Present but less than mass 443	13.2
442	Greater than 50.0 % of mass 198	90.7
443	15.0 - 24.0 % of mass 442	19.3 (21.3) 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 660-138205/4	1DF07004.D	06/07/2013	12:17
	MB 660-138156/1-A	1DF07012.D	06/07/2013	15:23
	LCS 660-138156/2-A	1DF07016.D	06/07/2013	16:54
CV1285A-CS	680-90855-21	1DF07026.D	06/07/2013	20:40
CV1285A-CS MS	680-90855-21 MS	1DF07027.D	06/07/2013	21:02
CV1285A-CS MSD	680-90855-21 MSD	1DF07028.D	06/07/2013	21:25

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

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
SDG No.: 68090855-2
Lab File ID: 1DF11002.D DFTPP Injection Date: 06/11/2013
Instrument ID: BSMD5973 DFTPP Injection Time: 11:44
Analysis Batch No.: 138352

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	35.3
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	37.5
70	Less than 2.0 % of mass 69	0.5 (1.2) 1
127	10.0 - 80.0 % of mass 198	47.4
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	6.4
275	10.0 - 60.0 % of mass 198	29.6
365	Greater than 1.0 % of mass 198	4.6
441	Present but less than mass 443	13.3
442	Greater than 50.0 % of mass 198	88.6
443	15.0 - 24.0 % of mass 442	17.3 (19.5) 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 660-138352/3	1DF11003.D	06/11/2013	12:00
	MB 660-138190/1-A	1DF11005.D	06/11/2013	12:45
	LCS 660-138190/2-A	1DF11006.D	06/11/2013	13:08
CV1285B-CS	680-90855-22	1DF11024.D	06/11/2013	19:54
CV1285C-CS	680-90855-23	1DF11025.D	06/11/2013	20:16
	680-91068-A-12-B MS	1DF11027.D	06/11/2013	21:01
	680-91068-A-12-C MSD	1DF11028.D	06/11/2013	21:24

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

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
SDG No.: 68090855-2
Sample No.: ICIS 660-137830/7 Date Analyzed: 05/23/2013 14:33
Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1DE23007.D Heated Purge: (Y/N) N
Calibration ID: 2984

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		3209942	6.28	1824950	7.95	3071098	9.20
UPPER LIMIT		6419884	6.78	3649900	8.45	6142196	9.70
LOWER LIMIT		1604971	5.78	912475	7.45	1535549	8.70
LAB SAMPLE ID		CLIENT SAMPLE ID					
ICV 660-137830/10		3254661	6.28	1828493	7.95	3056039	9.21

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
SDG No.: 68090855-2
Sample No.: ICIS 660-137830/7 Date Analyzed: 05/23/2013 14:33
Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1DE23007.D Heated Purge: (Y/N) N
Calibration ID: 2984

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	3009447	11.57	3048824	13.48		
UPPER LIMIT	6018894	12.07	6097648	13.98		
LOWER LIMIT	1504724	11.07	1524412	12.98		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-137830/10		2992199	11.57	3010942	13.47	

CRY = Chrysene-d12

PRY = Perylene-d12

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Sample No.: CCVIS 660-138205/4 Date Analyzed: 06/07/2013 12:17
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DF07004.D Heated Purge: (Y/N) N
 Calibration ID: 2984

		NPT		ANT		PHN		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		3268181	6.27	1761876	7.94	2916630	9.19	
UPPER LIMIT		6536362	6.77	3523752	8.44	5833260	9.69	
LOWER LIMIT		1634091	5.77	880938	7.44	1458315	8.69	
LAB SAMPLE ID		CLIENT SAMPLE ID						
MB 660-138156/1-A		3705122	6.26	2132330	7.93	3368643	9.19	
LCS 660-138156/2-A		3415746	6.26	1984341	7.94	3217461	9.19	
680-90855-21		CV1285A-CS	3121383	6.26	1745600	7.93	2848912	9.19
680-90855-21 MS		CV1285A-CS MS	3108408	6.26	1768798	7.94	2856839	9.19
680-90855-21 MSD		CV1285A-CS MSD	3173766	6.26	1801670	7.93	2941176	9.19

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Sample No.: CCVIS 660-138205/4 Date Analyzed: 06/07/2013 12:17
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DF07004.D Heated Purge: (Y/N) N
 Calibration ID: 2984

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	2760869	11.55	2646512	13.46		
UPPER LIMIT	5521738	12.05	5293024	13.96		
LOWER LIMIT	1380435	11.05	1323256	12.96		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-138156/1-A		3387293	11.55	3162996	13.46	
LCS 660-138156/2-A		3231448	11.55	3042857	13.45	
680-90855-21	CV1285A-CS	2786448	11.55	2838460	13.46	
680-90855-21 MS	CV1285A-CS MS	2804268	11.55	2941999	13.46	
680-90855-21 MSD	CV1285A-CS MSD	2896266	11.56	3027894	13.47	

CRY = Chrysene-d12

PRY = Perylene-d12

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Sample No.: CCVIS 660-138352/3 Date Analyzed: 06/11/2013 12:00
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DF11003.D Heated Purge: (Y/N) N
 Calibration ID: 2984

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3968569	6.26	2227186	7.93	3833653	9.19
UPPER LIMIT		7937138	6.76	4454372	8.43	7667306	9.69
LOWER LIMIT		1984285	5.76	1113593	7.43	1916827	8.69
LAB SAMPLE ID		CLIENT SAMPLE ID					
MB 660-138190/1-A		3654869	6.26	2224135	7.93	3524277	9.19
LCS 660-138190/2-A		3534898	6.26	2200448	7.93	3645131	9.19
680-90855-22		CV1285B-CS	3522570	6.27	2088920	7.93	3323825
680-90855-23		CV1285C-CS	3273629	6.26	1966907	7.93	3105971
680-91068-A-12-B MS			3488925	6.27	2059304	7.94	3299313
680-91068-A-12-C MSD			3183581	6.27	1881635	7.94	3037557

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Sample No.: CCVIS 660-138352/3 Date Analyzed: 06/11/2013 12:00
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DF11003.D Heated Purge: (Y/N) N
 Calibration ID: 2984

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	3693716	11.56	3237119	13.47		
UPPER LIMIT	7387432	12.06	6474238	13.97		
LOWER LIMIT	1846858	11.06	1618560	12.97		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-138190/1-A		3660370	11.55	3242645	13.46	
LCS 660-138190/2-A		3632829	11.55	3183022	13.46	
680-90855-22	CV1285B-CS	3149193	11.57	2691746	13.49	
680-90855-23	CV1285C-CS	2885715	11.57	2409387	13.49	
680-91068-A-12-B MS		3264426	11.58	2602655	13.50	
680-91068-A-12-C MSD		3015552	11.58	2341183	13.50	

CRY = Chrysene-d12

PRY = Perylene-d12

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-90855-2</u>
SDG No.: <u>68090855-2</u>	
Client Sample ID: <u>CV1285A-CS</u>	Lab Sample ID: <u>680-90855-21</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DF07026.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>05/30/2013 13:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>06/06/2013 14:10</u>
Sample wt/vol: <u>15.02(g)</u>	Date Analyzed: <u>06/07/2013 20:40</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>3.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>138205</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	13	J	41	5.2
120-12-7	Anthracene	25		8.7	4.4
56-55-3	Benzo[a]anthracene	82		8.3	4.0
50-32-8	Benzo[a]pyrene	94		11	5.4
205-99-2	Benzo[b]fluoranthene	160		13	6.3
191-24-2	Benzo[g,h,i]perylene	89		21	4.6
207-08-9	Benzo[k]fluoranthene	51		8.3	3.7
218-01-9	Chrysene	130		9.3	4.7
53-70-3	Dibenz(a,h)anthracene	28		21	4.2
206-44-0	Fluoranthene	170		21	4.1
86-73-7	Fluorene	10	J	21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	80		21	7.4
90-12-0	1-Methylnaphthalene	45		41	4.6
91-57-6	2-Methylnaphthalene	69		41	7.4
91-20-3	Naphthalene	48		41	4.6
85-01-8	Phenanthrene	140		8.3	4.0
129-00-0	Pyrene	140		21	3.8

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07026.D
Lab Smp Id: 680-90855-A-21-A Client Smp ID: CV1285A-CS
Inj Date : 07-JUN-2013 20:40
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-21-a
Misc Info : 680-90855-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\dFASTPAHi.m
Meth Date : 07-Jun-2013 12:37 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	3.609	% 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/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.263	6.266	(1.000)	3121383	40.0000		
*	7 Acenaphthene-d10	164	7.931	7.935	(1.000)	1745600	40.0000		
*	11 Phenanthrene-d10	188	9.188	9.192	(1.000)	2848912	40.0000		
\$	15 o-Terphenyl	230	9.500	9.498	(1.034)	240700	5.76702	400	
*	19 Chrysene-d12	240	11.550	11.554	(1.000)	2786448	40.0000		
*	24 Perylene-d12	264	13.460	13.458	(1.000)	2838460	40.0000		
	2 Naphthalene	128	6.280	6.284	(1.003)	53668	0.69721	48	
	3 2-Methylnaphthalene	142	6.979	6.983	(1.114)	48878	0.99728	69	
	4 1-Methylnaphthalene	142	7.073	7.077	(1.129)	33003	0.65409	45	
	5 1,1'-Biphenyl	154	7.414	7.418	(0.935)	14267	0.24191	17	
	6 Acenaphthylene	152	7.802	7.805	(0.984)	13815	0.19088	13	
	9 Dibenzofuran	168	8.107	8.111	(1.022)	19736	0.31175	22	
	10 Fluorene	166	8.395	8.399	(1.059)	7693	0.14809	10	
	12 Phenanthrene	178	9.206	9.210	(1.002)	151856	1.96812	140	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Anthracene	178	9.247	9.251	(1.006)	27126	0.36233	25
16 Fluoranthene	202	10.187	10.191	(1.109)	197582	2.50309	170
17 Pyrene	202	10.375	10.379	(0.898)	168698	2.06787	140
18 Benzo(a)anthracene	228	11.533	11.536	(0.998)	97621	1.18048	82
20 Chrysene	228	11.574	11.577	(1.002)	138533	1.86035	130
21 Benzo(b)fluoranthene	252	12.890	12.894	(0.958)	167659	2.35775	160
22 Benzo(k)fluoranthene	252	12.925	12.935	(0.960)	55273	0.74226	51
23 Benzo(a)pyrene	252	13.354	13.358	(0.992)	88797	1.35982	94
25 Indeno(1,2,3-cd)pyrene	276	15.093	15.103	(1.121)	74613	1.15933	80(M)
26 Dibenzo(a,h)anthracene	278	15.123	15.144	(1.124)	22276	0.40034	28
27 Benzo(g,h,i)perylene	276	15.563	15.585	(1.156)	82775	1.28430	89

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF07026.D

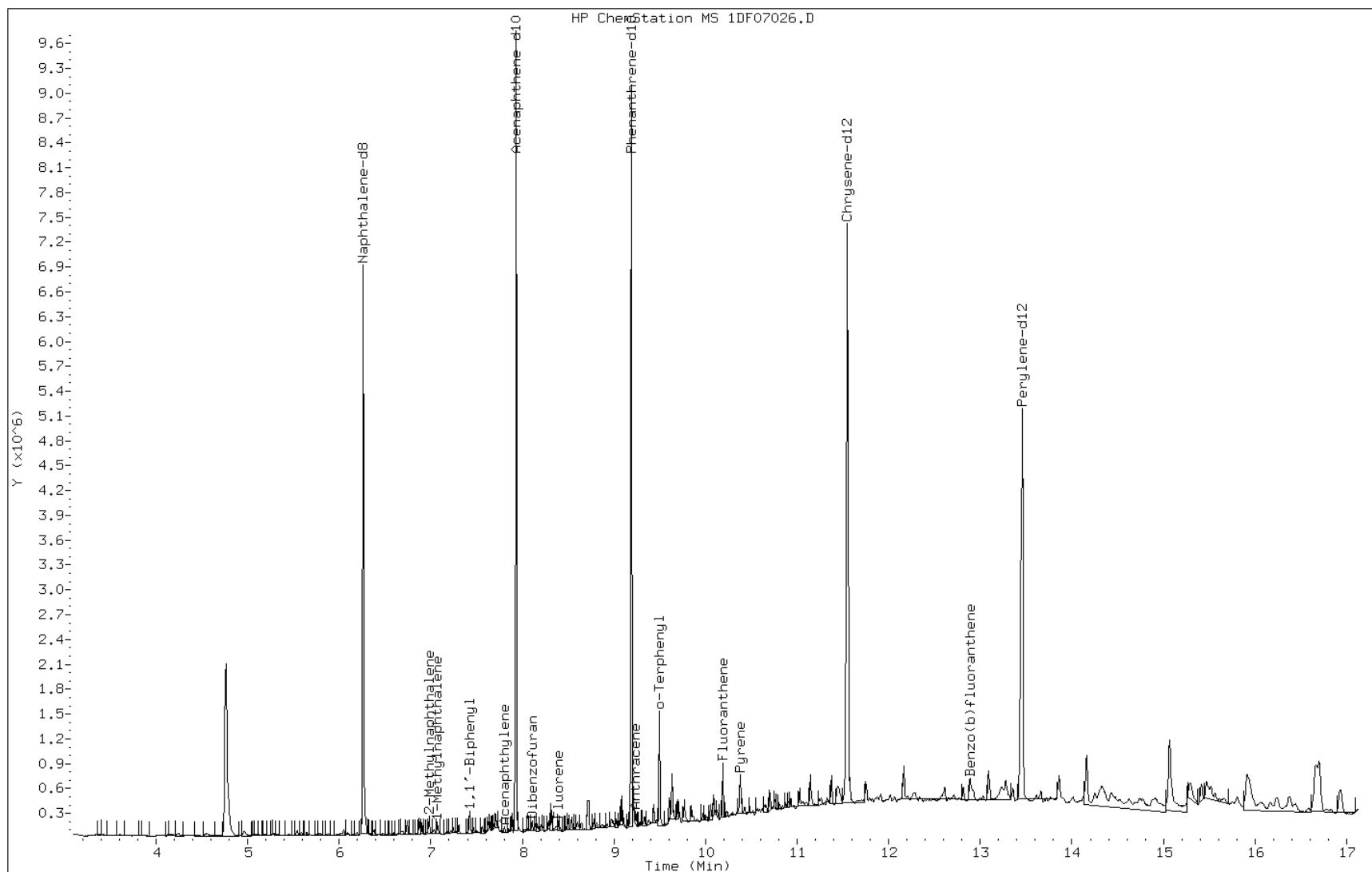
Date: 07-JUN-2013 20:40

Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

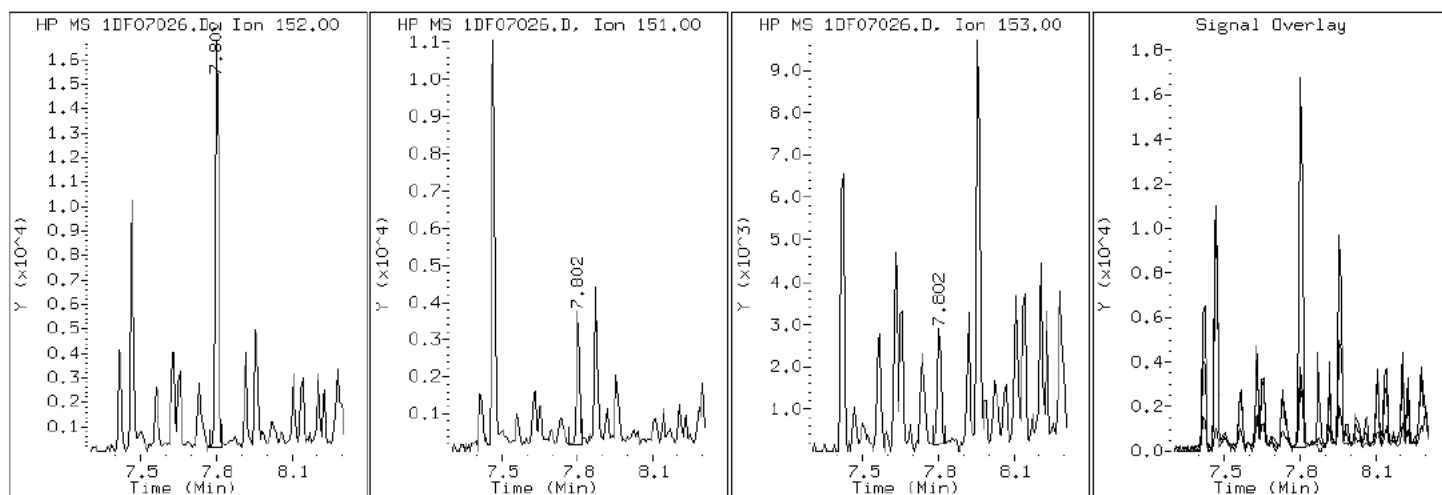
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

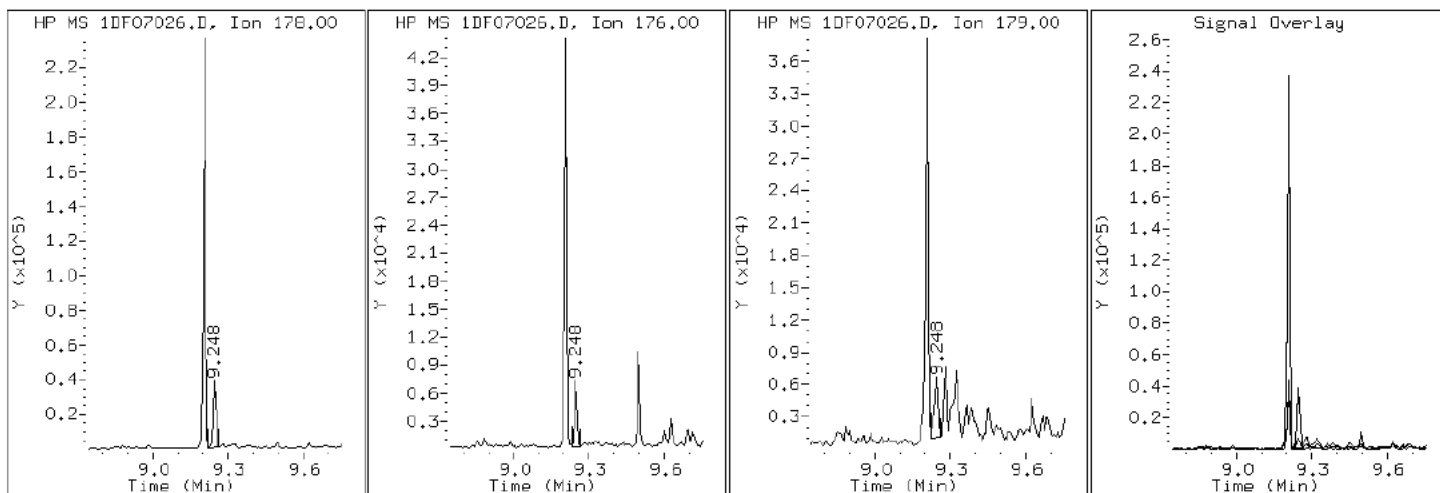
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

13 Anthracene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

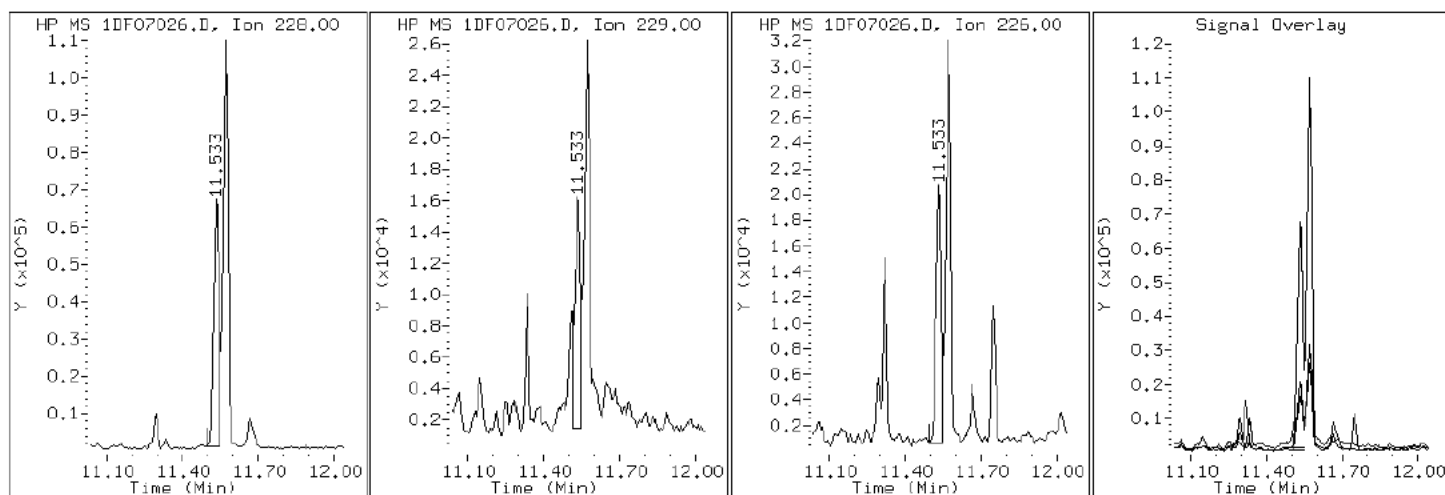
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

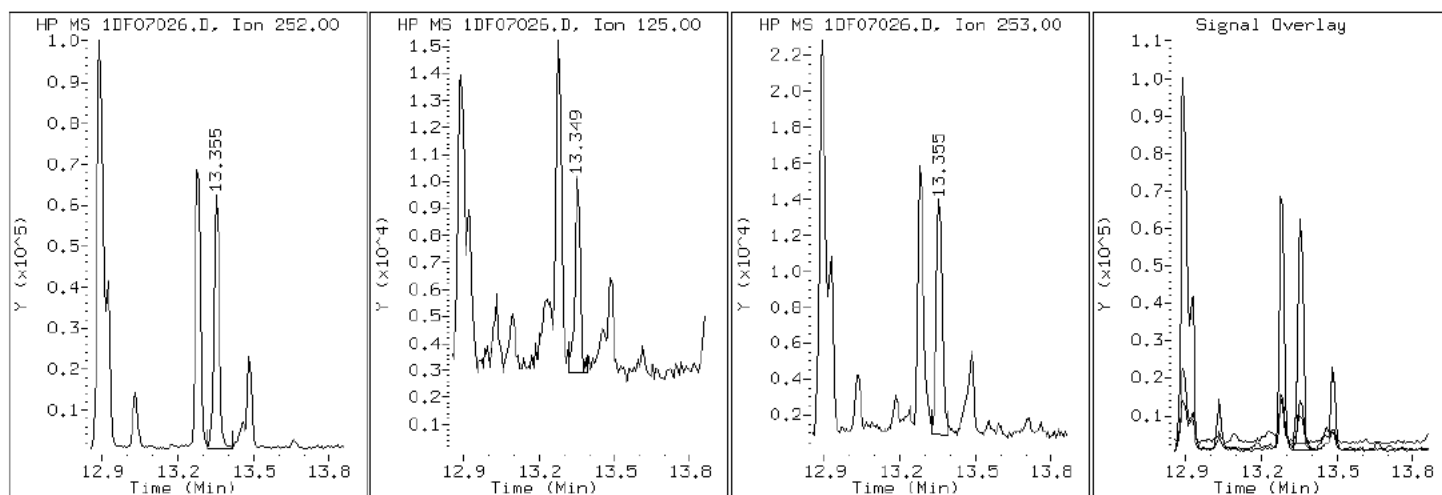
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

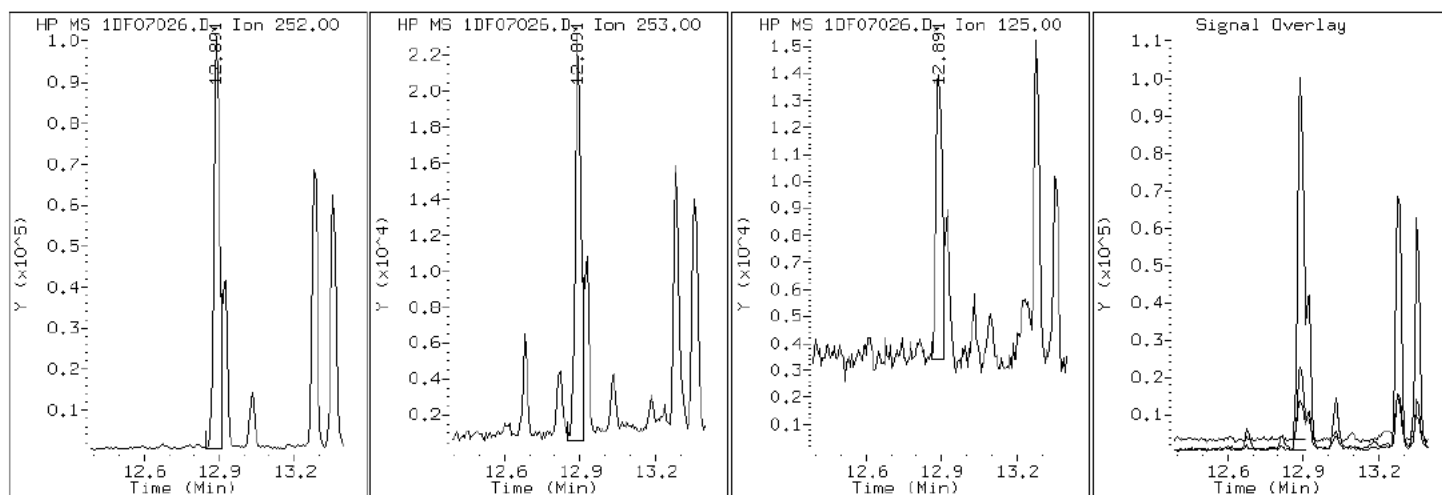
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

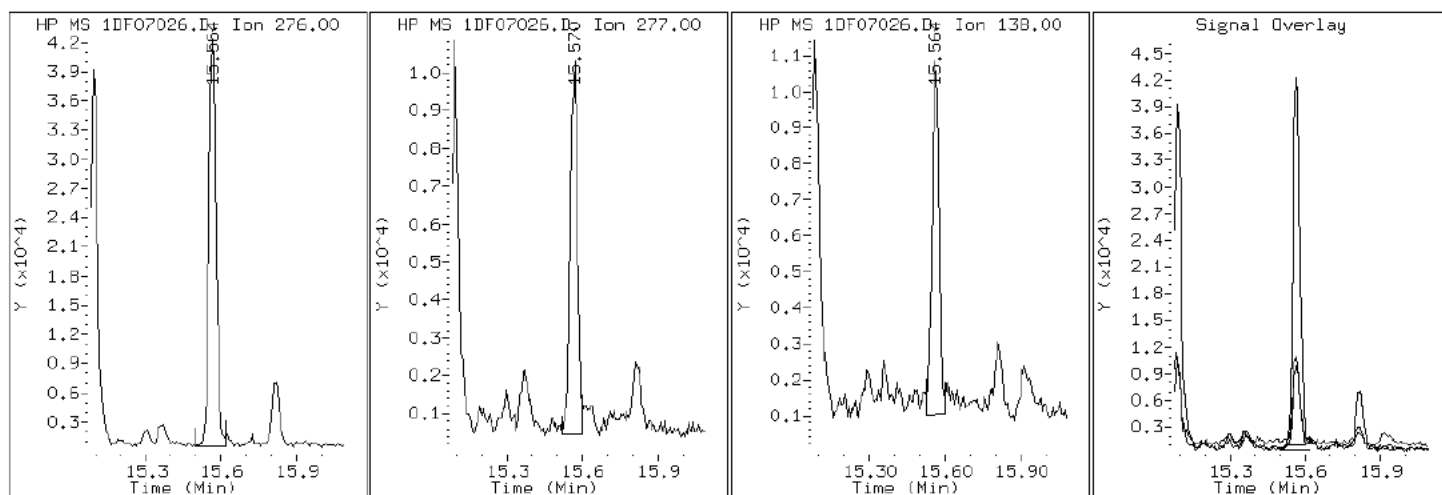
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

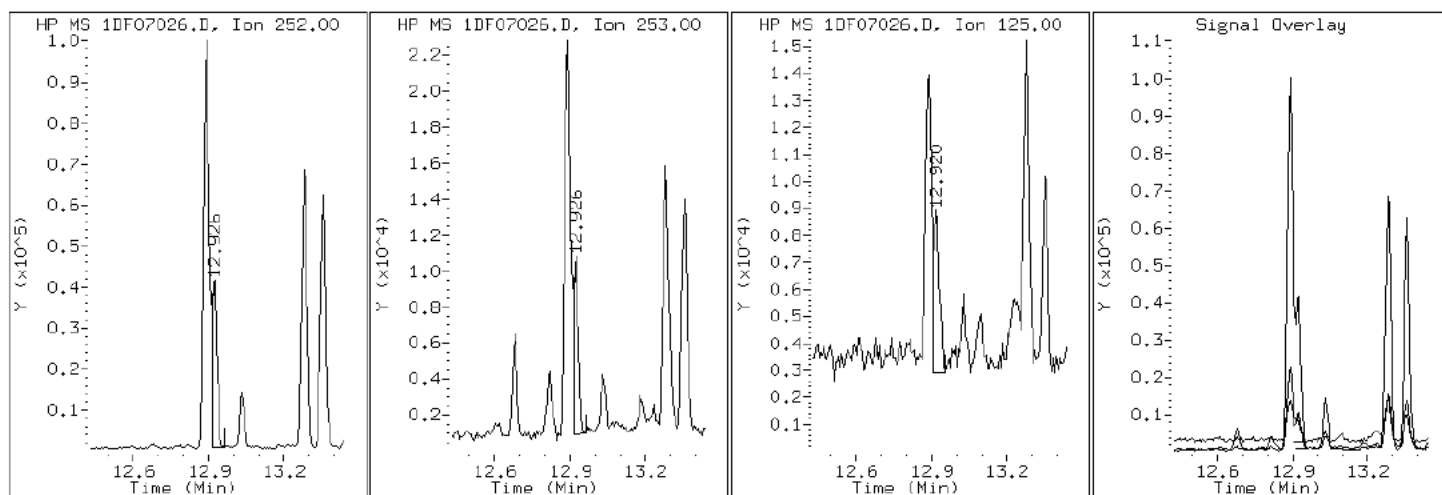
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

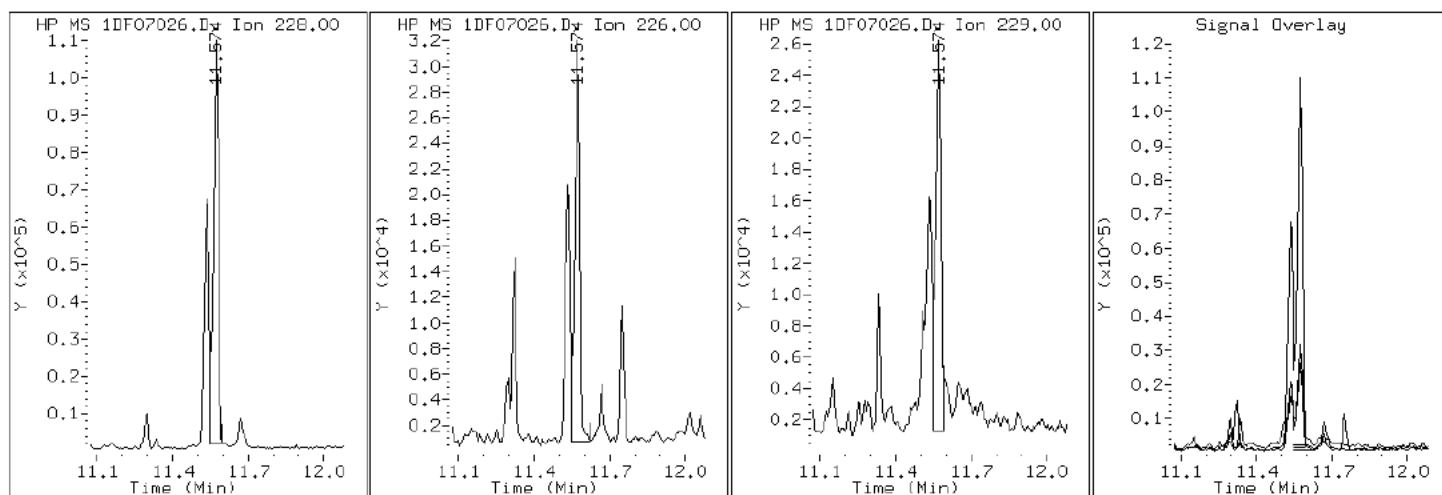
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

20 Chrysene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

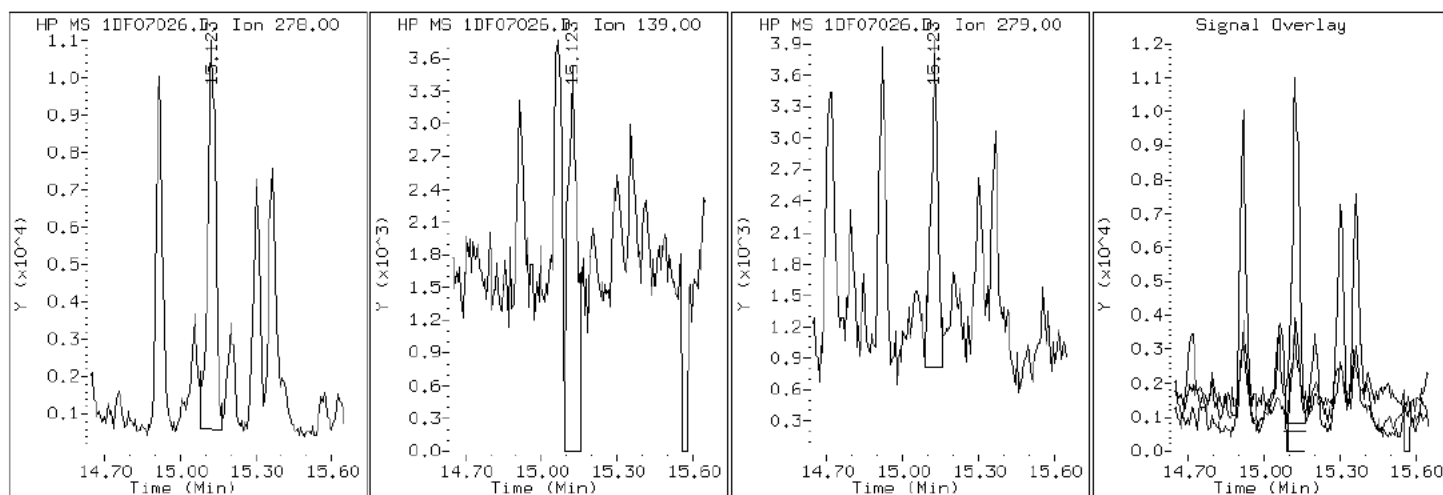
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

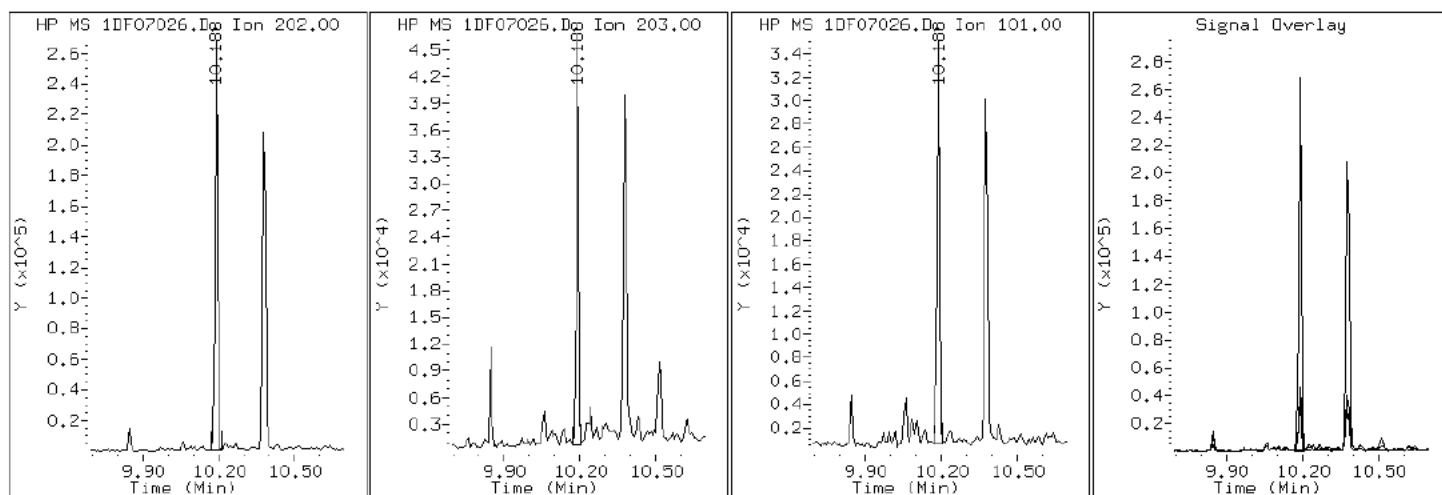
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

16 Fluoranthene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

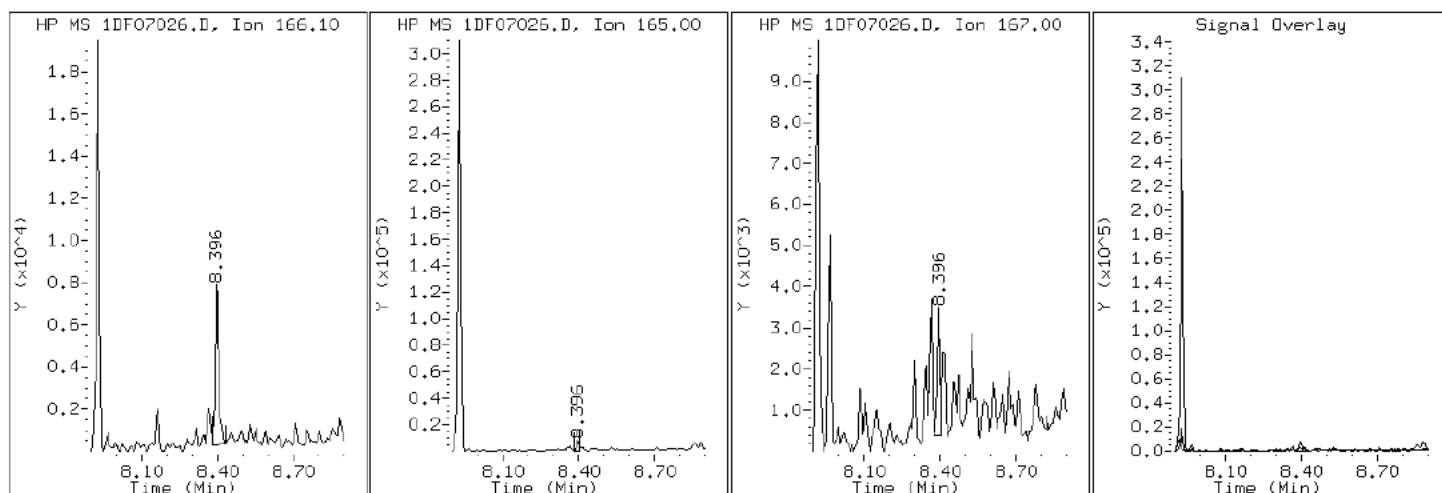
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

10 Fluorene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

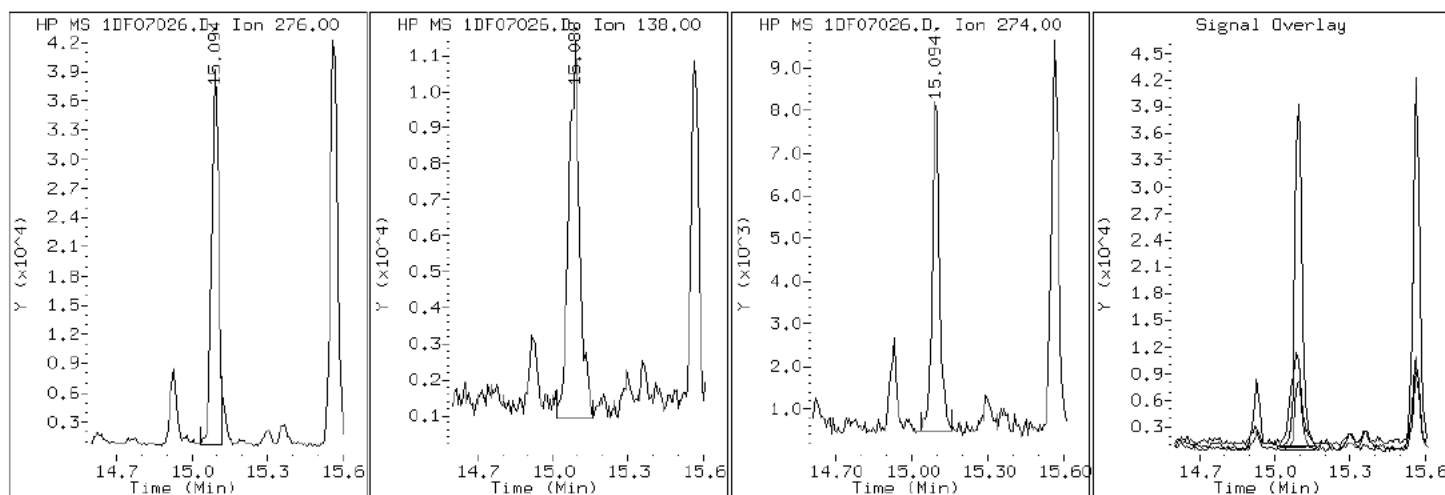
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

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



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

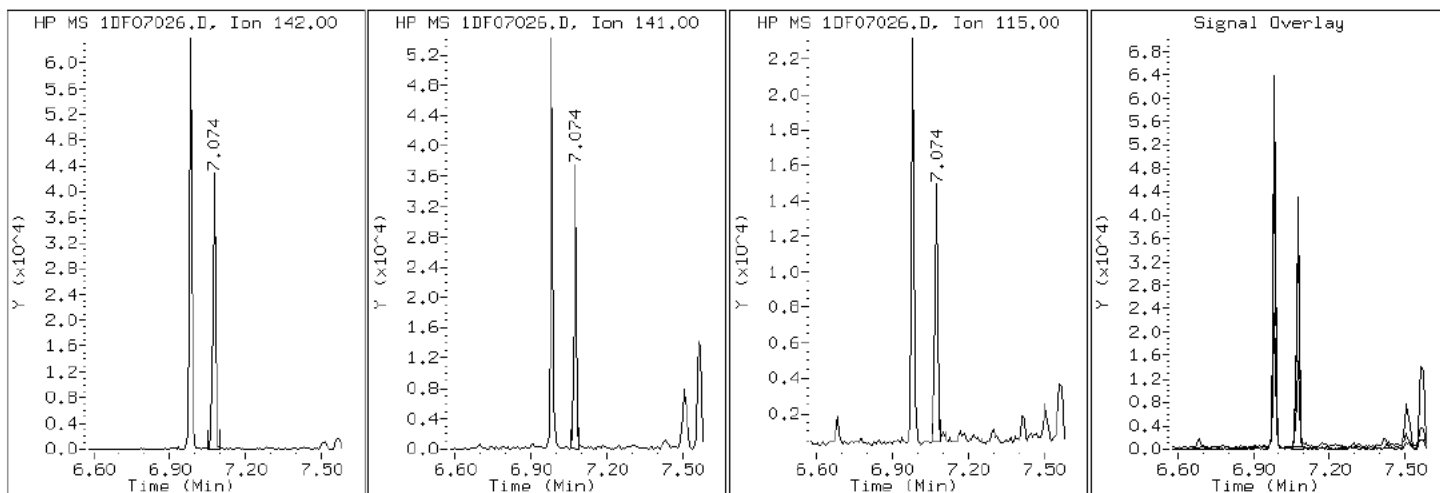
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

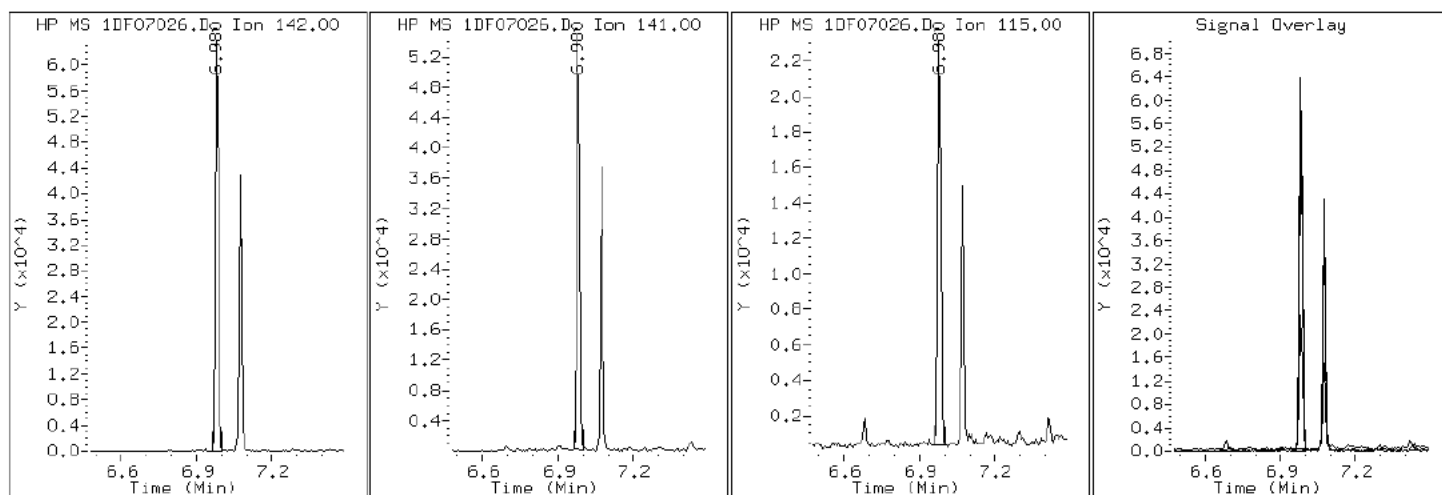
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

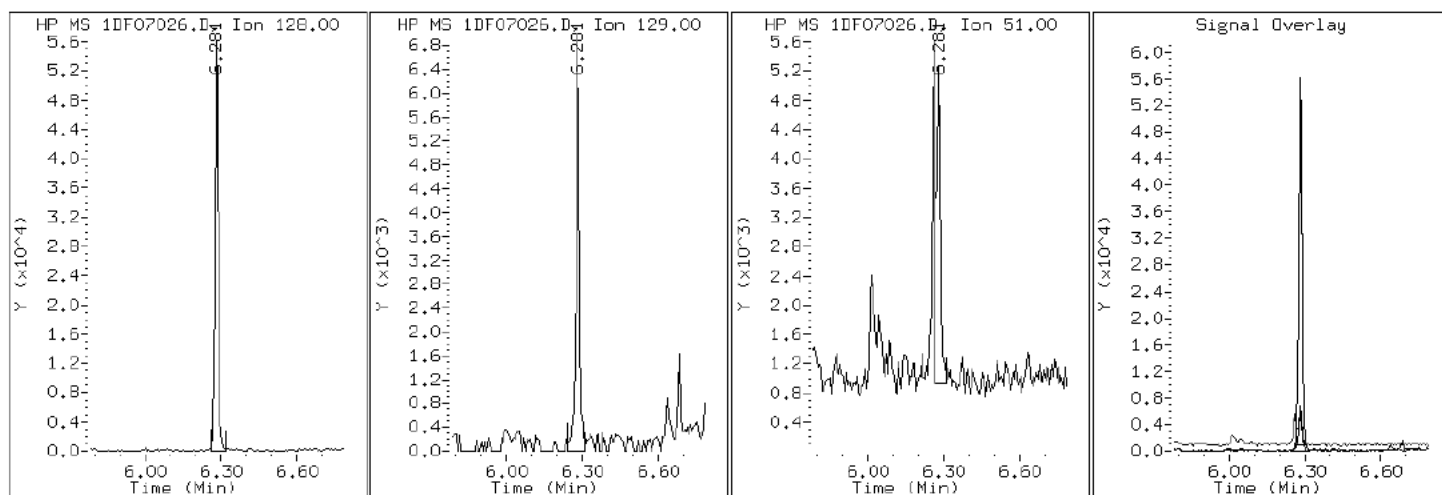
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

2 Naphthalene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

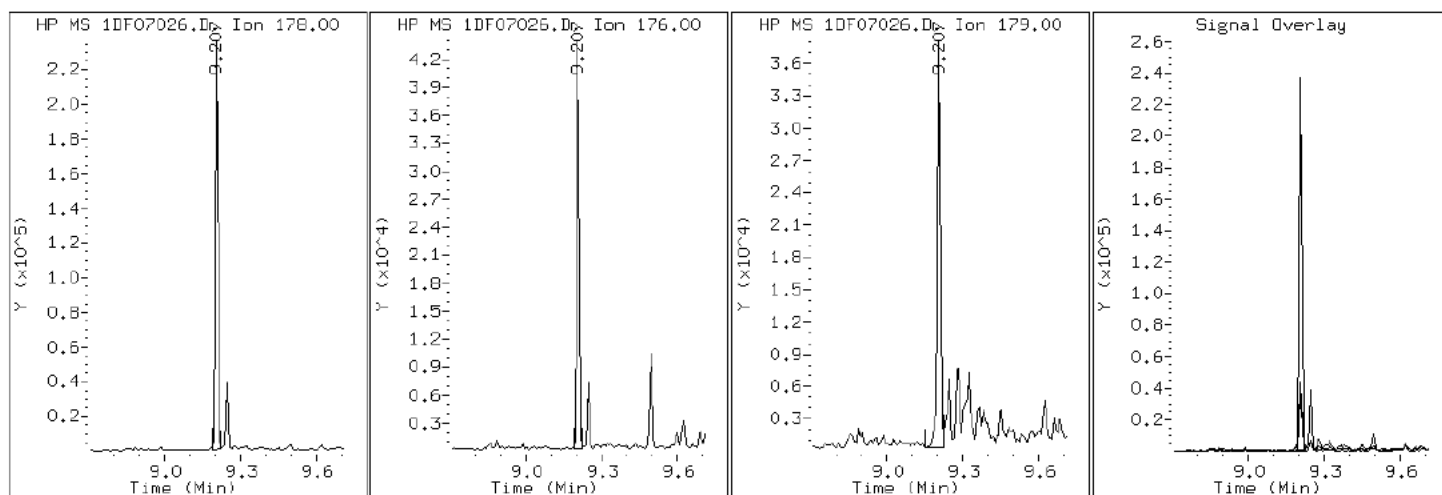
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

12 Phenanthrene



Data File: 1DF07026.D

Date: 07-JUN-2013 20:40

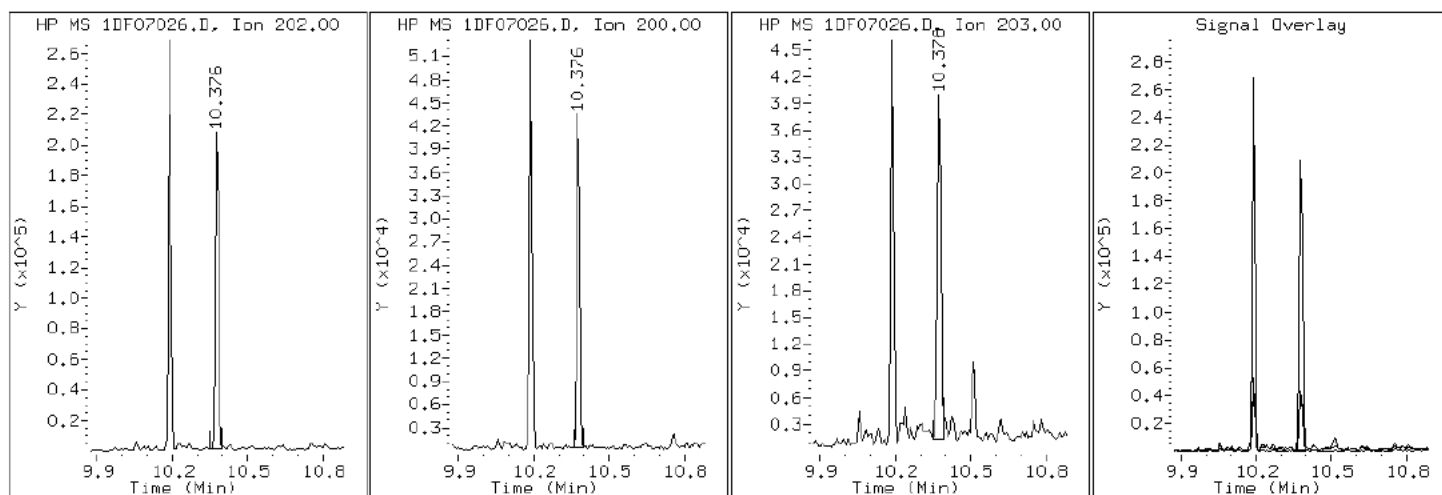
Client ID: CV1285A-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-a

Operator: SCC

17 Pyrene

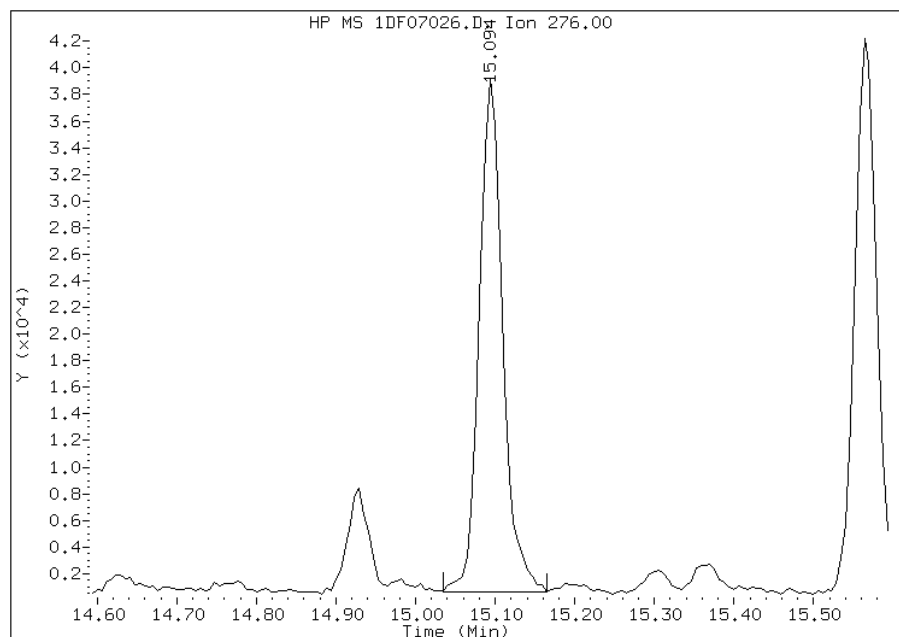


Manual Integration Report

Data File: 1DF07026.D
Inj. Date and Time: 07-JUN-2013 20:40
Instrument ID: BSMSD.i
Client ID: CV1285A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

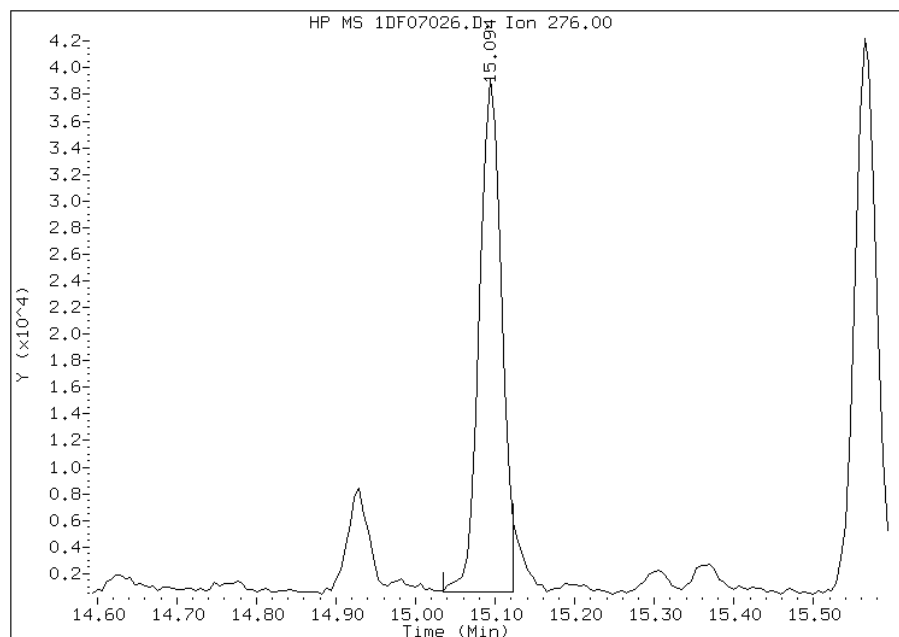
Processing Integration Results

RT: 15.09
Response: 78167
Amount: 1
Conc: 83



Manual Integration Results

RT: 15.09
Response: 74613
Amount: 1
Conc: 80



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 10:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-90855-2</u>
SDG No.: <u>68090855-2</u>	
Client Sample ID: <u>CV1285B-CS</u>	Lab Sample ID: <u>680-90855-22</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DF11024.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>05/30/2013 13:30</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>06/07/2013 10:07</u>
Sample wt/vol: <u>14.97(g)</u>	Date Analyzed: <u>06/11/2013 19:54</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>12.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>138352</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	9.9	J	46	5.7
120-12-7	Anthracene	22		9.6	4.8
56-55-3	Benzo[a]anthracene	82		9.1	4.5
50-32-8	Benzo[a]pyrene	83		12	5.9
205-99-2	Benzo[b]fluoranthene	160		14	7.0
191-24-2	Benzo[g,h,i]perylene	58		23	5.0
207-08-9	Benzo[k]fluoranthene	47		9.1	4.1
218-01-9	Chrysene	120		10	5.1
53-70-3	Dibenz(a,h)anthracene	23		23	4.7
206-44-0	Fluoranthene	140		23	4.6
86-73-7	Fluorene	9.1	J	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	61		23	8.1
90-12-0	1-Methylnaphthalene	69		46	5.0
91-57-6	2-Methylnaphthalene	110		46	8.1
91-20-3	Naphthalene	130		46	5.0
85-01-8	Phenanthrene	140		9.1	4.5
129-00-0	Pyrene	110		23	4.2

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11024.D
Lab Smp Id: 680-90855-A-22-A Client Smp ID: CV1285B-CS
Inj Date : 11-JUN-2013 19:54
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-22-a
Misc Info : 680-90855-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	12.359	% 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/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.265	6.260	(1.000)	3522570	40.0000		
*	7 Acenaphthene-d10	164	7.934	7.929	(1.000)	2088920	40.0000		
*	11 Phenanthrene-d10	188	9.197	9.192	(1.000)	3323825	40.0000		
\$	15 o-Terphenyl	230	9.496	9.497	(1.033)	199607	4.09913	310	
*	19 Chrysene-d12	240	11.571	11.560	(1.000)	3149193	40.0000		
*	24 Perylene-d12	264	13.492	13.469	(1.000)	2691746	40.0000		
	2 Naphthalene	128	6.283	6.284	(1.003)	150485	1.73233	130	
	3 2-Methylnaphthalene	142	6.982	6.977	(1.114)	79147	1.43096	110	
	4 1-Methylnaphthalene	142	7.076	7.071	(1.129)	51284	0.90064	69	
	6 Acenaphthylene	152	7.804	7.799	(0.984)	11305	0.13053	9.9	
10	Fluorene	166	8.398	8.399	(1.059)	7432	0.11955	9.1(Q)	
12	Phenanthrene	178	9.214	9.210	(1.002)	170440	1.89335	140	
13	Anthracene	178	9.250	9.251	(1.006)	25100	0.28737	22	
16	Fluoranthene	202	10.196	10.191	(1.109)	164435	1.78551	140	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
17 Pyrene	202	10.384	10.379	(0.897)	127722	1.38526	100
18 Benzo(a)anthracene	228	11.553	11.536	(0.998)	100681	1.07725	82
20 Chrysene	228	11.588	11.583	(1.002)	127704	1.51739	120
21 Benzo(b)fluoranthene	252	12.916	12.899	(0.957)	144447	2.14204	160
22 Benzo(k)fluoranthene	252	12.945	12.940	(0.960)	43780	0.61996	47(Q)
23 Benzo(a)pyrene	252	13.386	13.369	(0.992)	66110	1.08874	83
25 Indeno(1,2,3-cd)pyrene	276	15.143	15.120	(1.122)	45314	0.79569	61(M)
26 Dibenzo(a,h)anthracene	278	15.172	15.156	(1.125)	14530	0.29783	23
27 Benzo(g,h,i)perylene	276	15.619	15.602	(1.158)	46753	0.76494	58

QC Flag Legend

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

Data File: 1DF11024.D

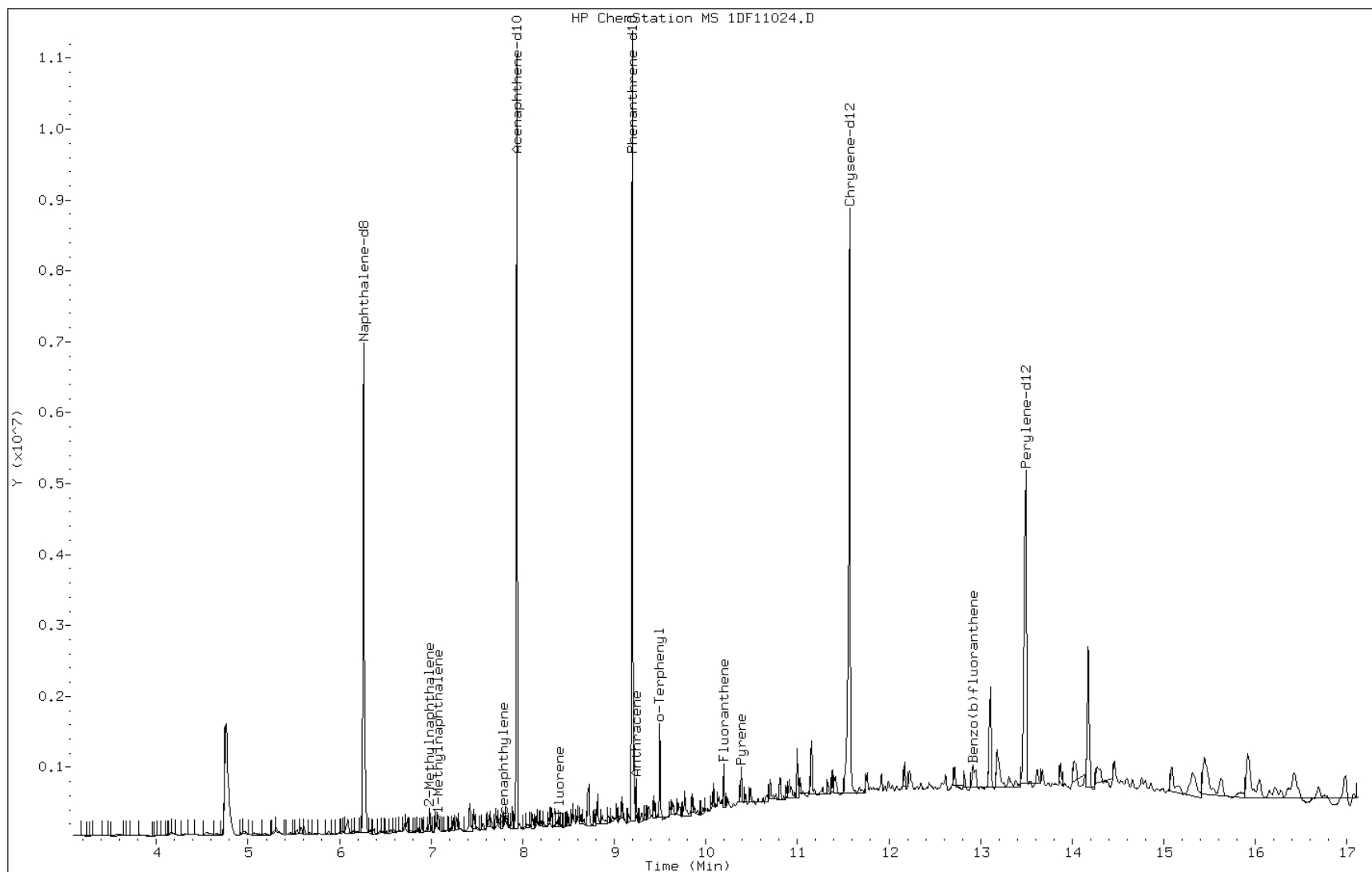
Date: 11-JUN-2013 19:54

Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

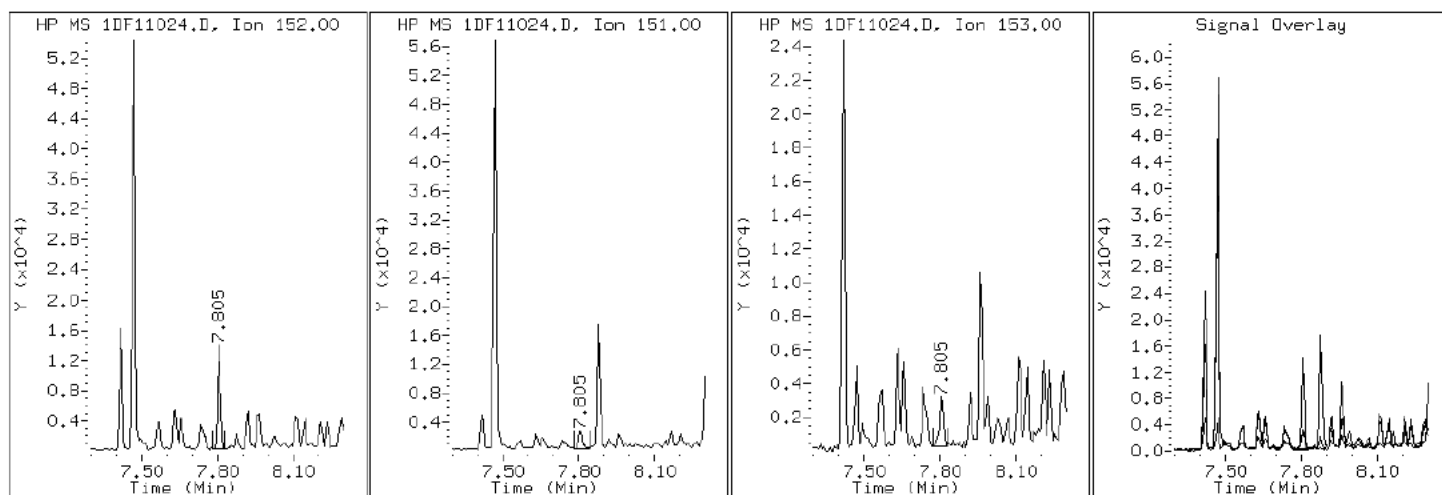
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

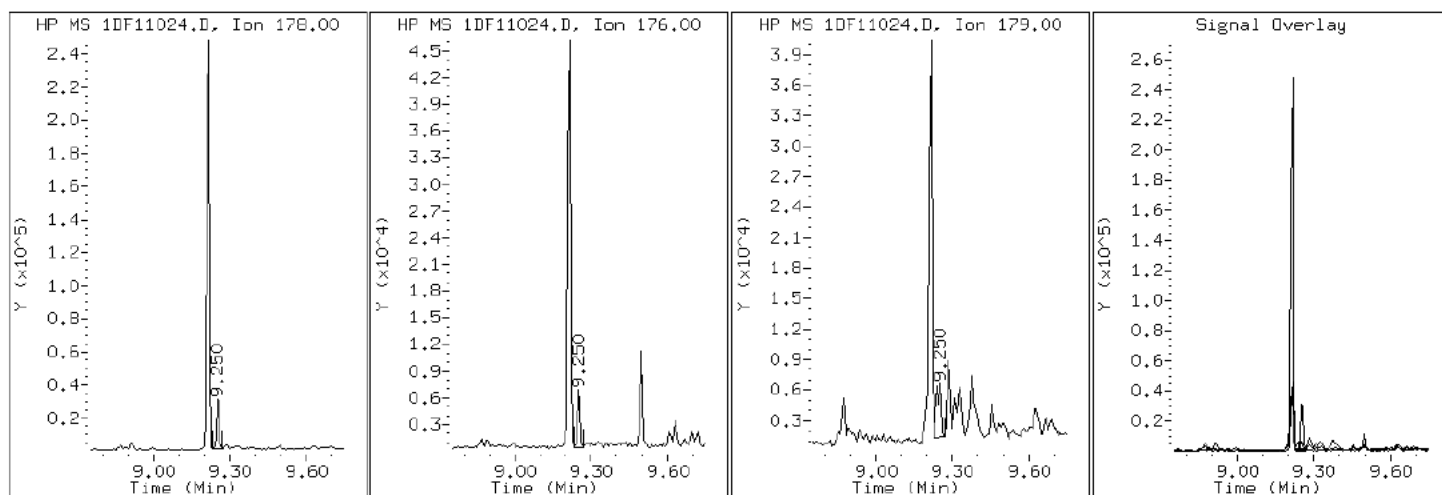
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

13 Anthracene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

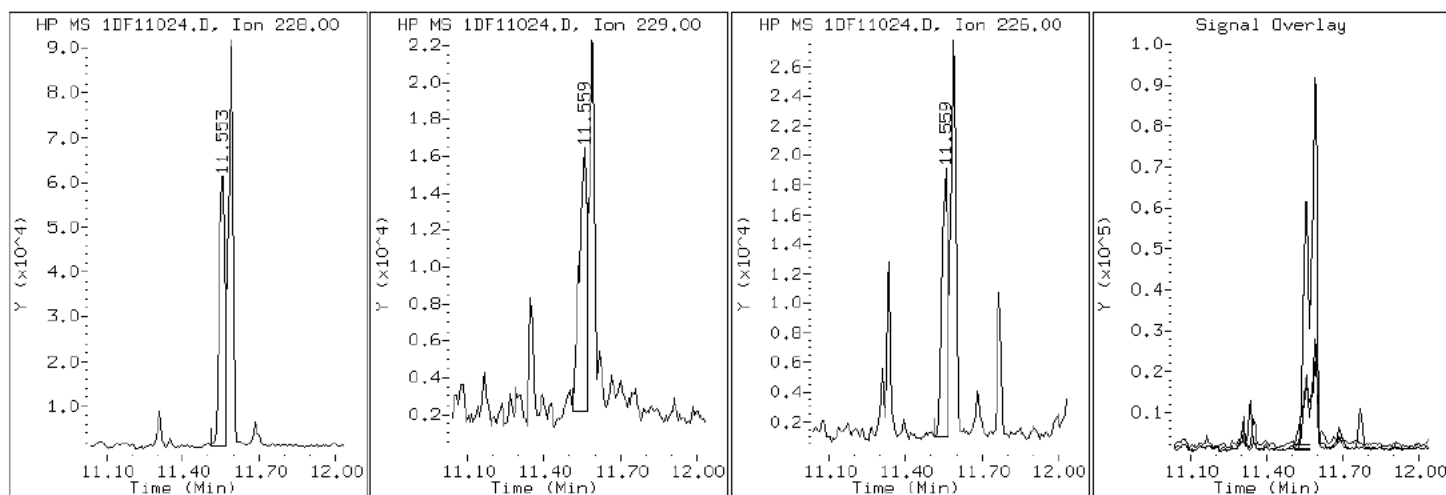
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

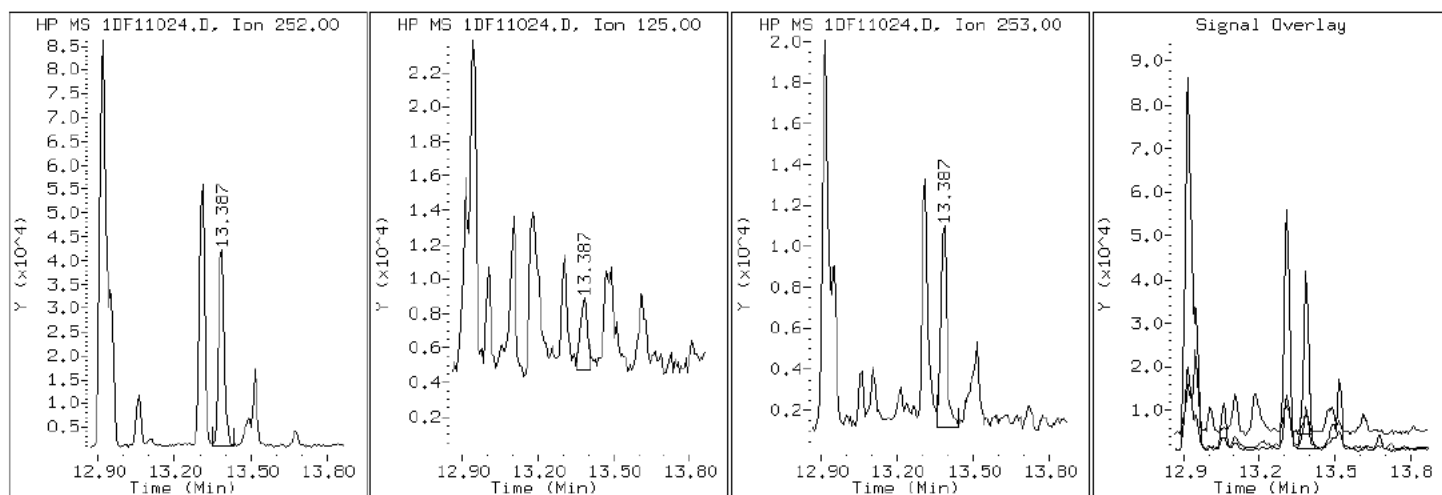
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

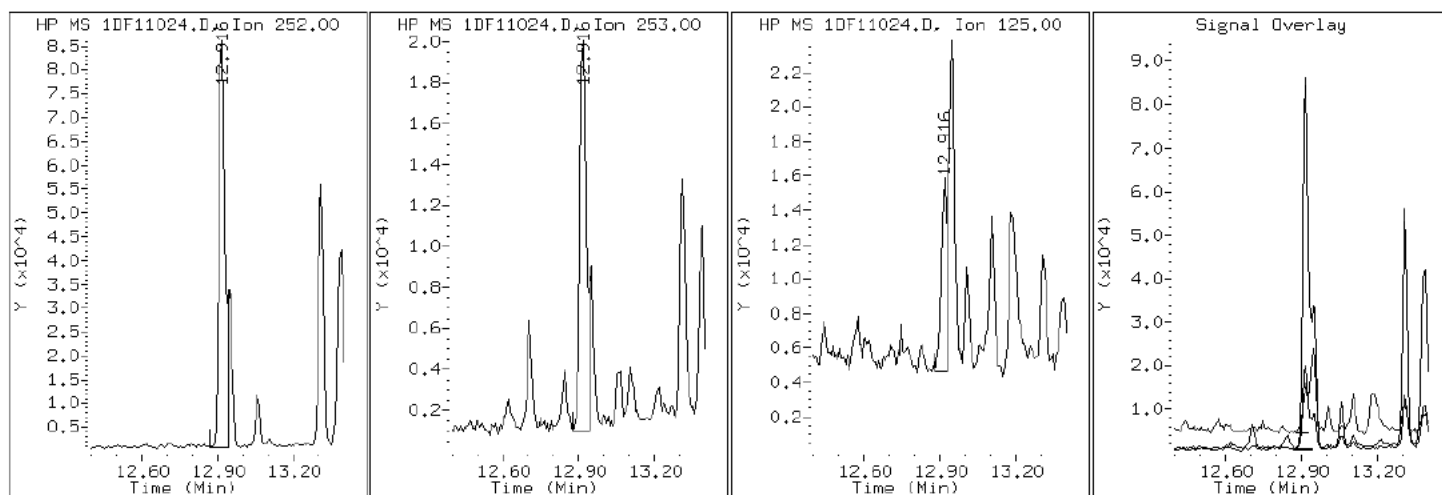
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

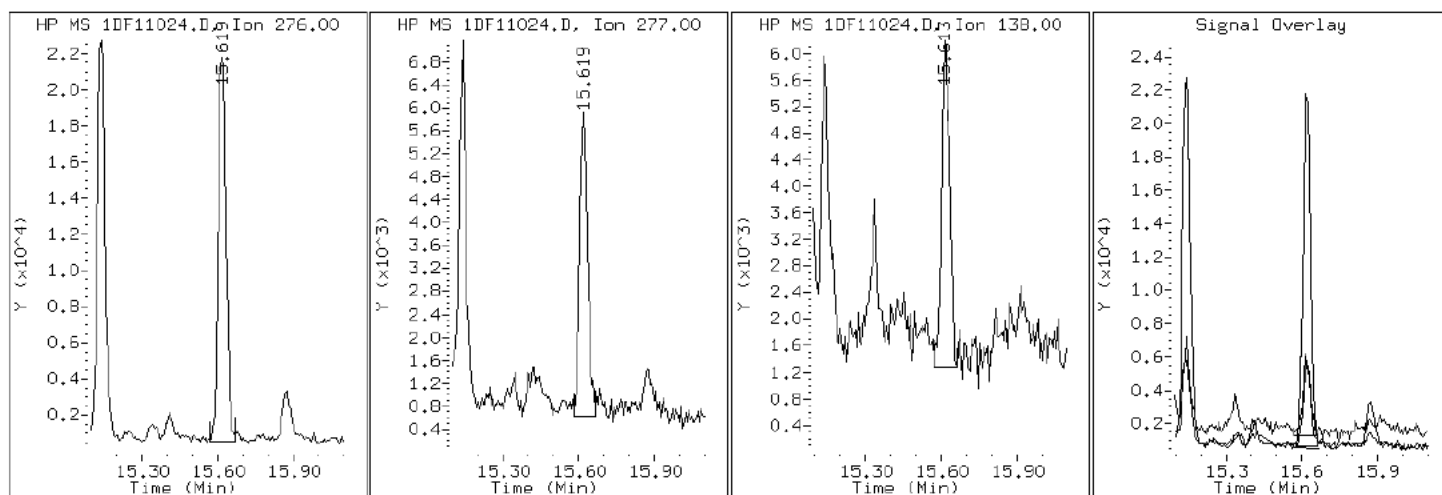
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

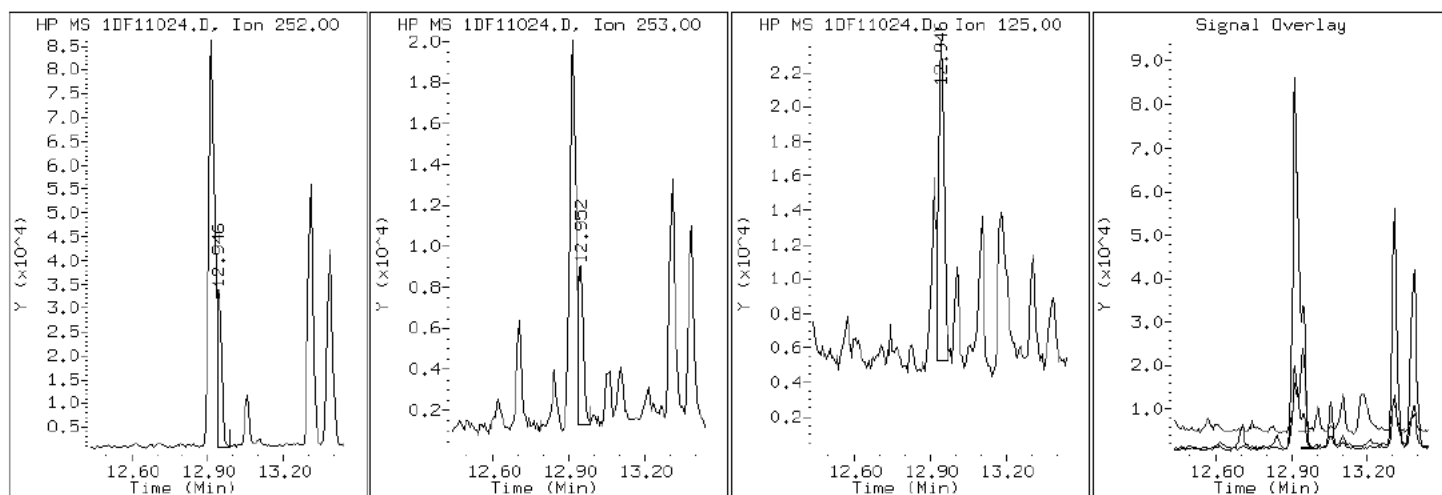
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

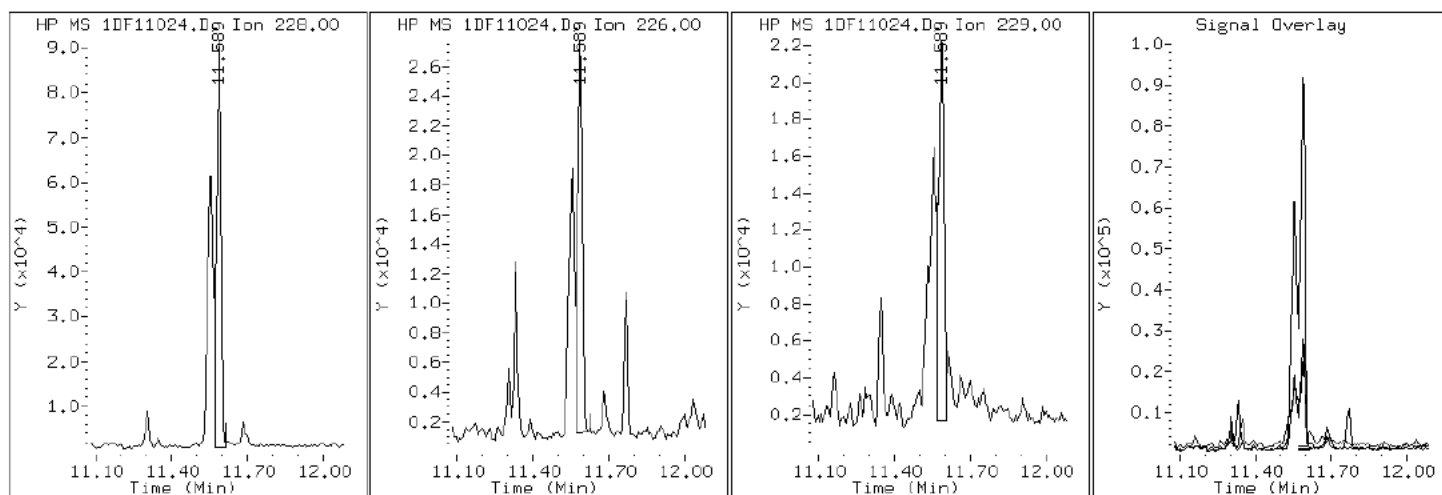
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

20 Chrysene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

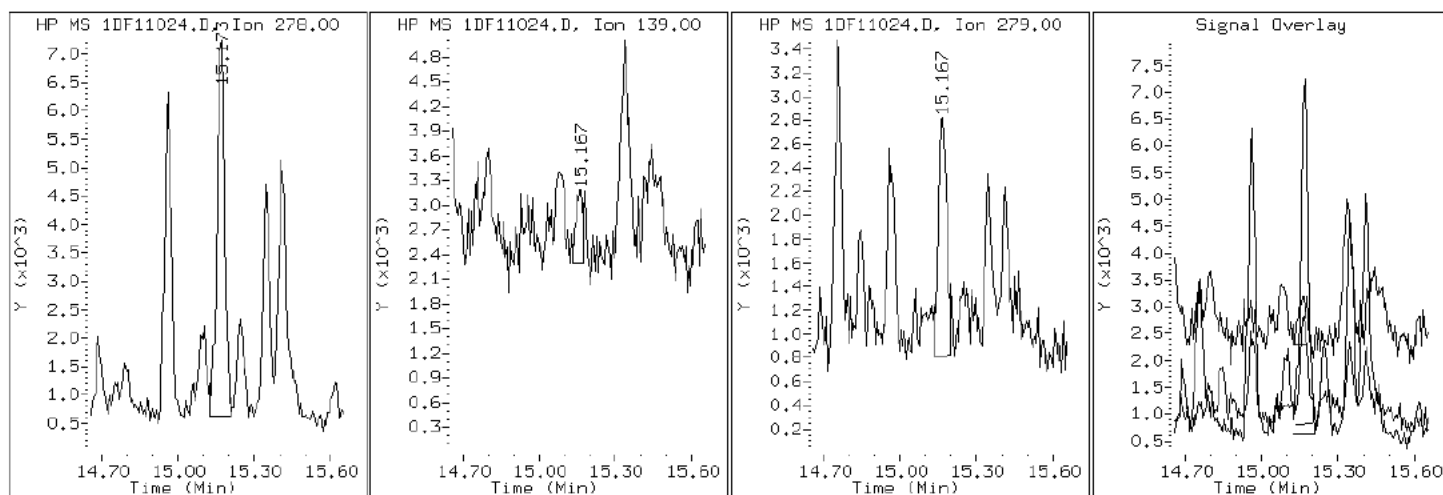
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

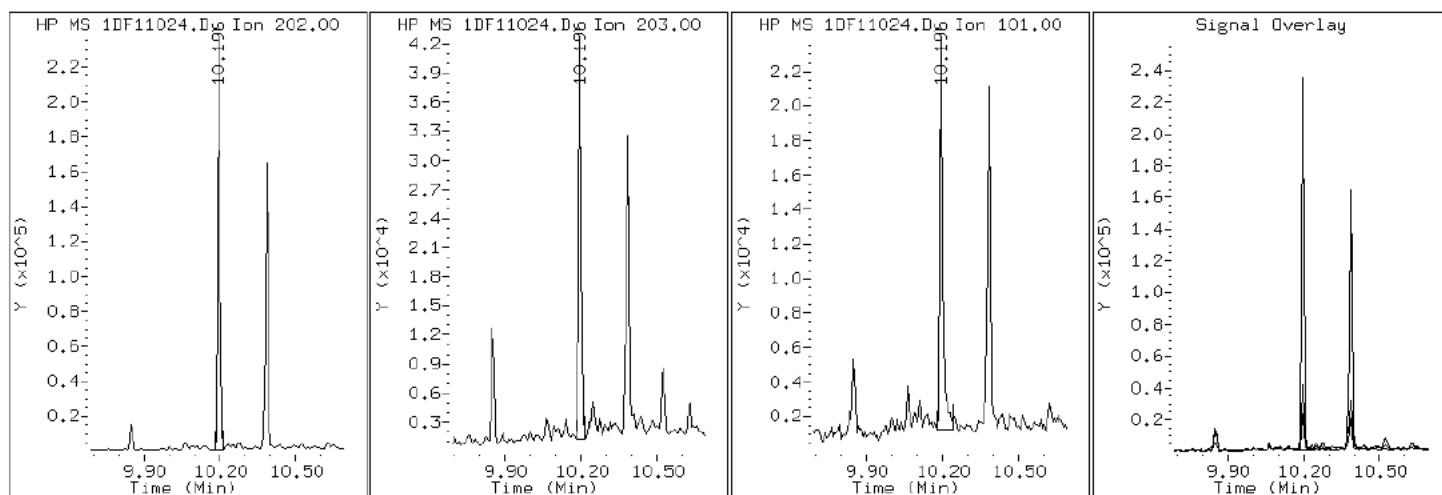
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

16 Fluoranthene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

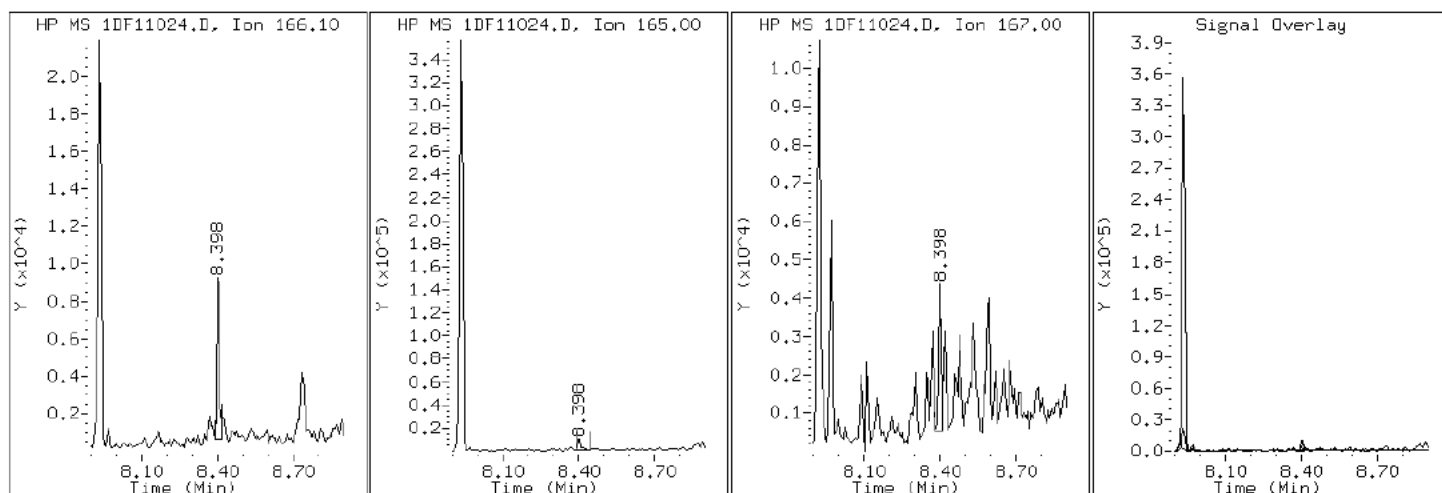
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

10 Fluorene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

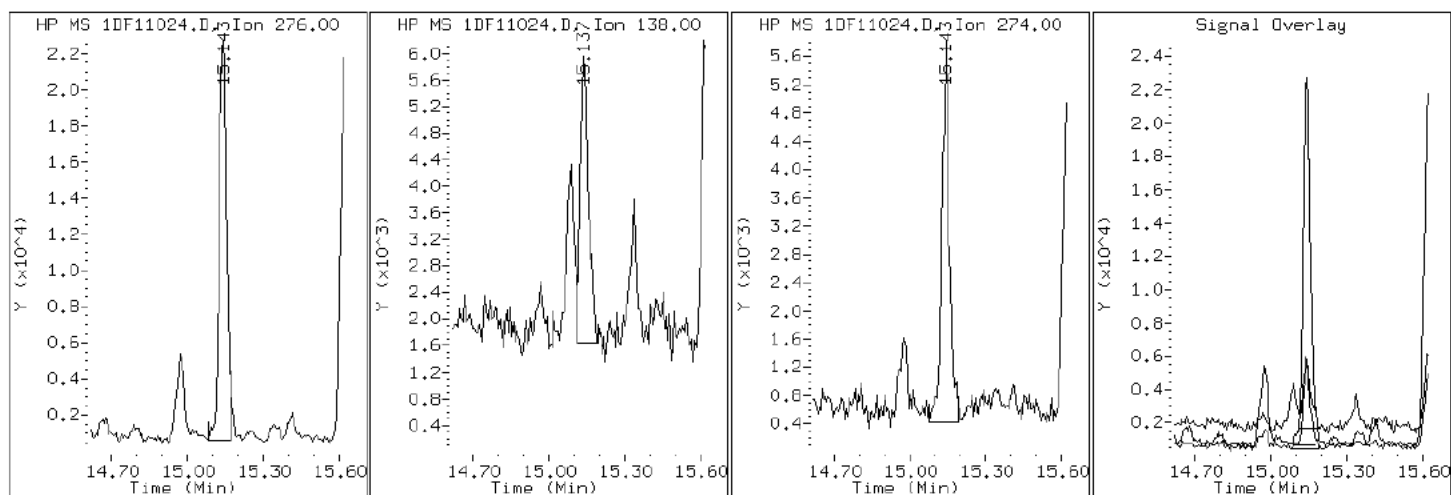
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

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



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

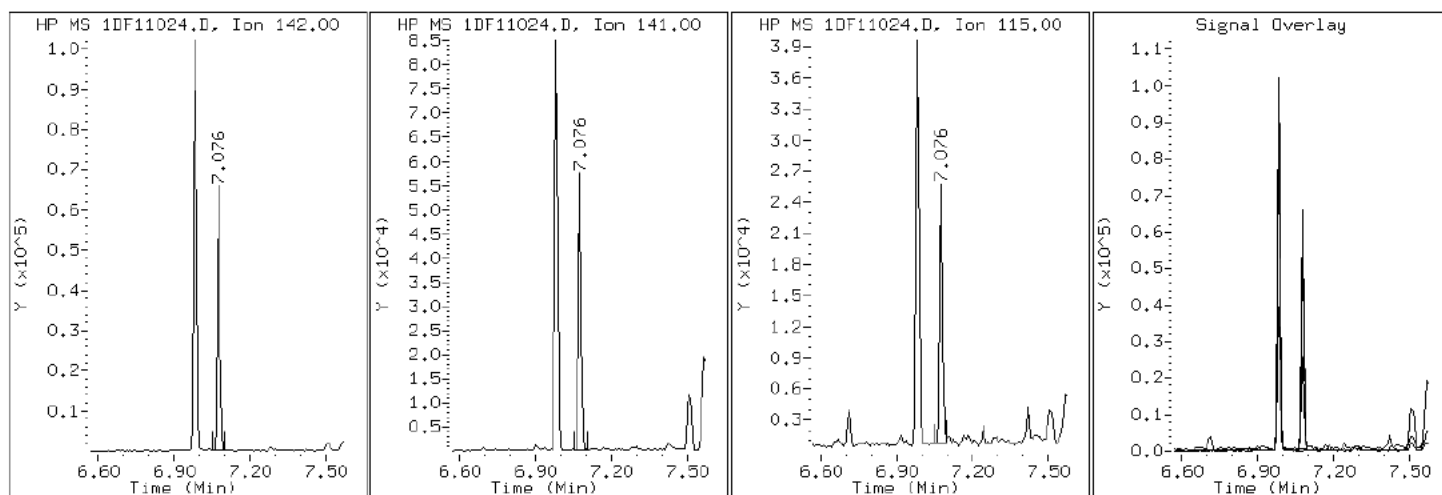
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

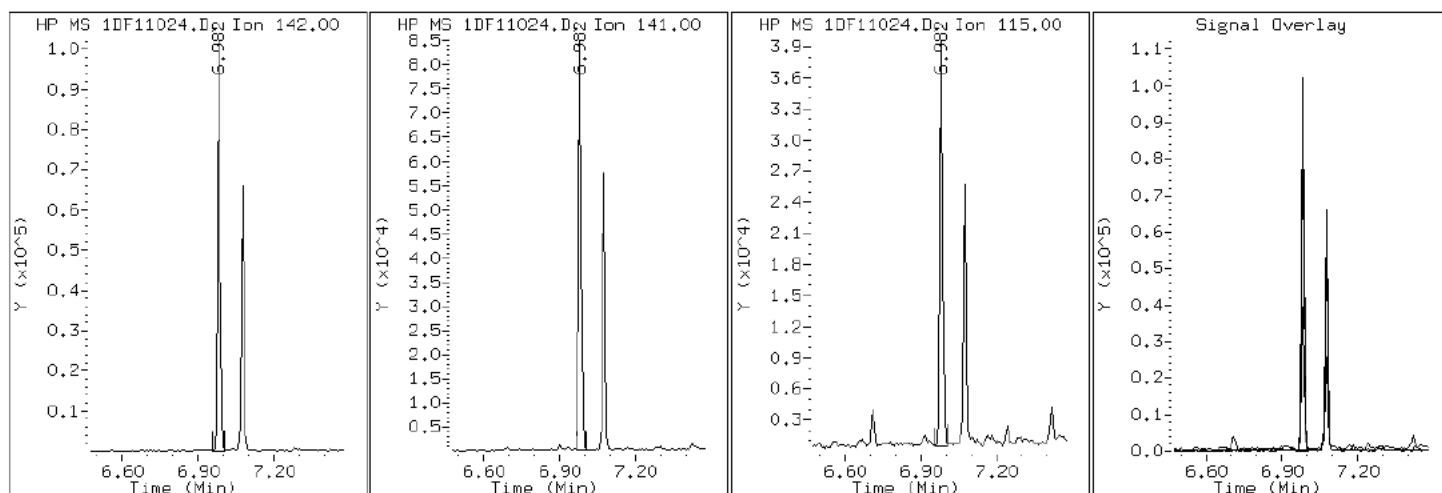
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

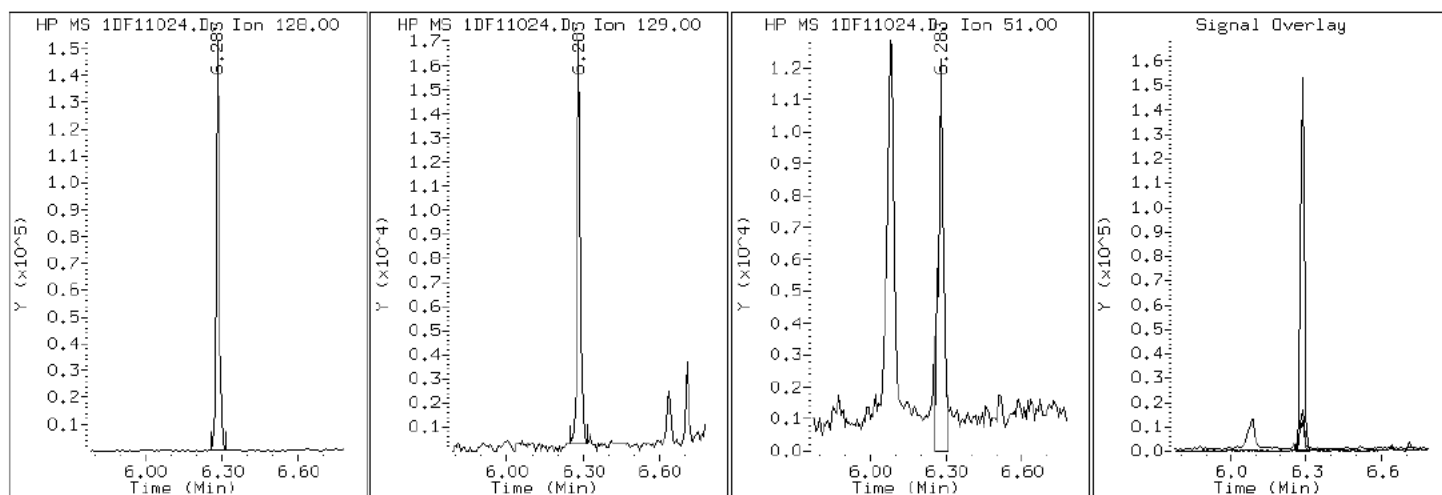
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

2 Naphthalene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

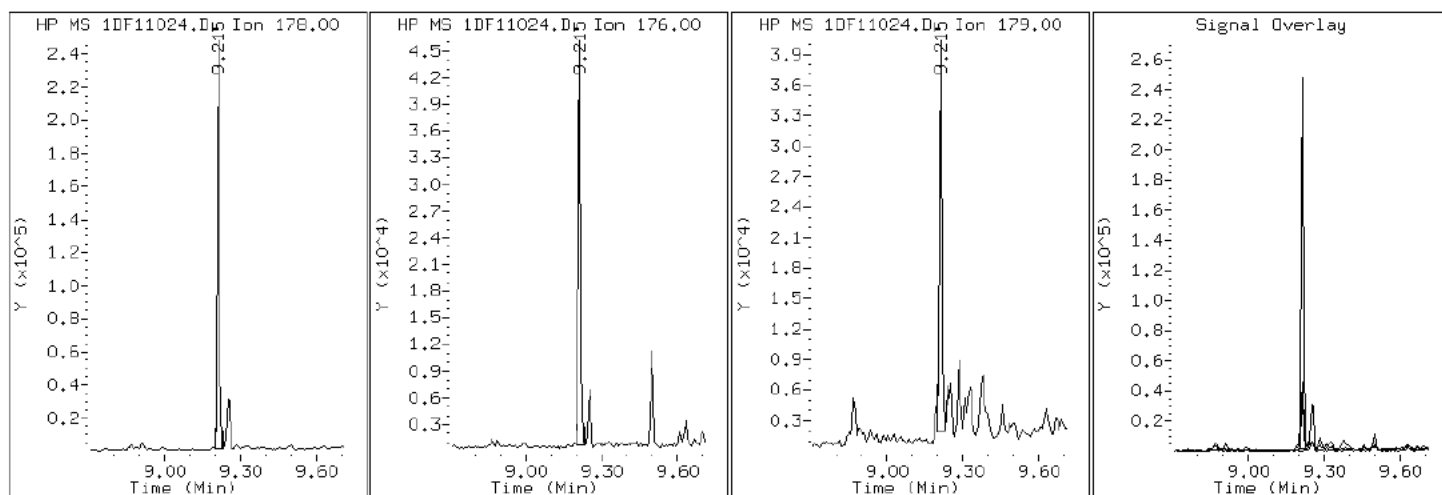
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

12 Phenanthrene



Data File: 1DF11024.D

Date: 11-JUN-2013 19:54

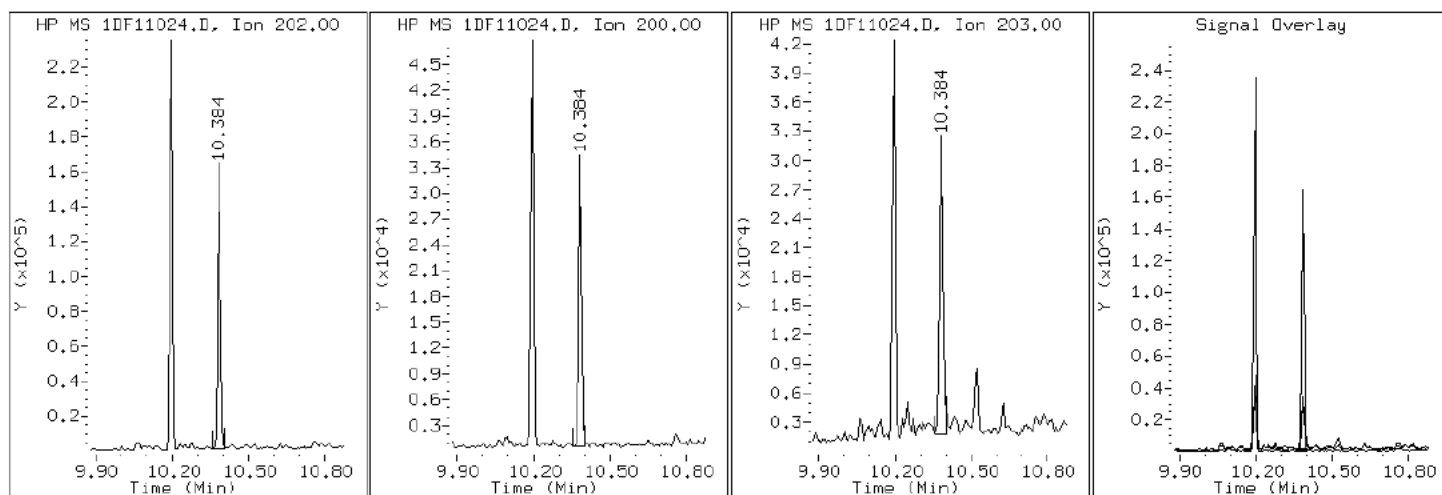
Client ID: CV1285B-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-22-a

Operator: SCC

17 Pyrene

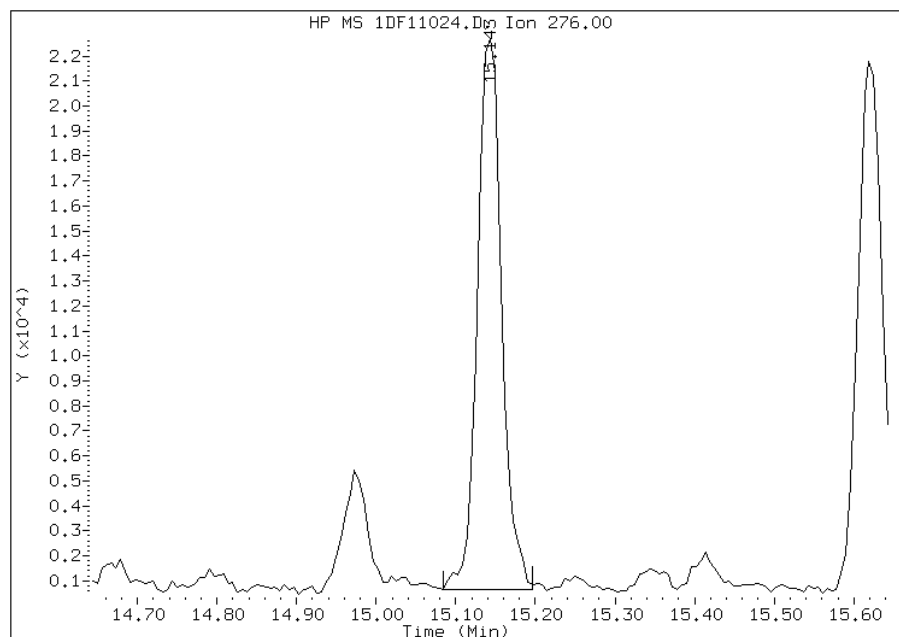


Manual Integration Report

Data File: 1DF11024.D
Inj. Date and Time: 11-JUN-2013 19:54
Instrument ID: BSMSD.i
Client ID: CV1285B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

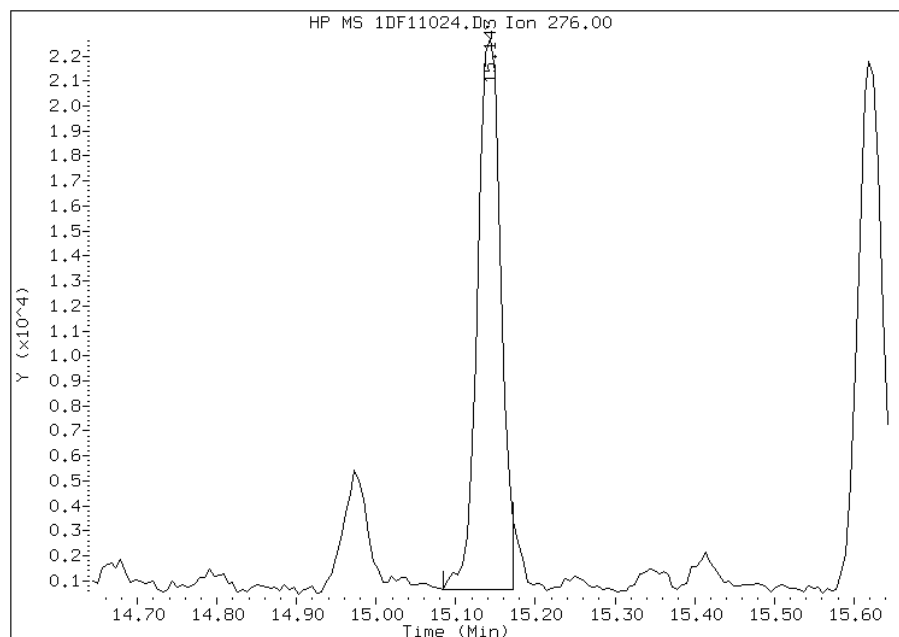
Processing Integration Results

RT: 15.14
Response: 46615
Amount: 1
Conc: 62



Manual Integration Results

RT: 15.14
Response: 45314
Amount: 1
Conc: 61



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-90855-2</u>
SDG No.: <u>68090855-2</u>	
Client Sample ID: <u>CV1285C-CS</u>	Lab Sample ID: <u>680-90855-23</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DF11025.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>05/30/2013 13:35</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>06/07/2013 10:07</u>
Sample wt/vol: <u>14.94(g)</u>	Date Analyzed: <u>06/11/2013 20:16</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>10.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>138352</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	450	U	450	89
208-96-8	Acenaphthylene	180	U	180	22
120-12-7	Anthracene	80		38	19
56-55-3	Benzo[a]anthracene	290		36	17
50-32-8	Benzo[a]pyrene	310		47	23
205-99-2	Benzo[b]fluoranthene	510		55	27
191-24-2	Benzo[g,h,i]perylene	180		89	20
207-08-9	Benzo[k]fluoranthene	160		36	16
218-01-9	Chrysene	330		40	20
53-70-3	Dibenz(a,h)anthracene	75	J	89	18
206-44-0	Fluoranthene	470		89	18
86-73-7	Fluorene	37	J	89	18
193-39-5	Indeno[1,2,3-cd]pyrene	200		89	32
90-12-0	1-Methylnaphthalene	100	J	180	20
91-57-6	2-Methylnaphthalene	170	J	180	32
91-20-3	Naphthalene	160	J	180	20
85-01-8	Phenanthrene	430		36	17
129-00-0	Pyrene	400		89	17

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\1D061113.b\1DF11025.D
 Lab Smp Id: 680-90855-A-23-A Client Smp ID: CV1285C-CS
 Inj Date : 11-JUN-2013 20:16
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90855-a-23-a
 Misc Info : 680-90855-A-23-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
 Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 25
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	10.251	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.264	6.260	(1.000)		3273629	40.0000	
* 7 Acenaphthene-d10	164		7.932	7.929	(1.000)		1966907	40.0000	
* 11 Phenanthrene-d10	188		9.195	9.192	(1.000)		3105971	40.0000	
\$ 15 o-Terphenyl	230		9.495	9.497	(1.033)		60367	1.32665	400
* 19 Chrysene-d12	240		11.569	11.560	(1.000)		2885715	40.0000	
* 24 Perylene-d12	264		13.485	13.469	(1.000)		2409387	40.0000	
2 Naphthalene	128		6.287	6.284	(1.004)		43571	0.53972	160
3 2-Methylnaphthalene	142		6.980	6.977	(1.114)		28697	0.55829	170
4 1-Methylnaphthalene	142		7.074	7.071	(1.129)		18122	0.34246	100
6 Acenaphthylene	152		7.803	7.799	(0.984)		5828	0.07146	21
8 Acenaphthene	154		7.956	7.958	(1.003)		9388	0.18147	54
10 Fluorene	166		8.402	8.399	(1.059)		7182	0.12270	37
12 Phenanthrene	178		9.213	9.210	(1.002)		120060	1.42725	420
13 Anthracene	178		9.254	9.251	(1.006)		21881	0.26809	80

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
16 Fluoranthene	202	10.194	10.191	(1.109)	134247	1.55996	460
17 Pyrene	202	10.382	10.379	(0.897)	113792	1.34686	400
18 Benzo(a)anthracene	228	11.552	11.536	(0.998)	82745	0.96618	290
20 Chrysene	228	11.587	11.583	(1.002)	84398	1.09439	330
21 Benzo(b)fluoranthene	252	12.909	12.899	(0.957)	102666	1.70088	510
22 Benzo(k)fluoranthene	252	12.944	12.940	(0.960)	34451	0.54503	160
23 Benzo(a)pyrene	252	13.379	13.369	(0.992)	56456	1.04324	310
25 Indeno(1,2,3-cd)pyrene	276	15.130	15.120	(1.122)	33564	0.68397	200(M)
26 Dibenzo(a,h)anthracene	278	15.159	15.156	(1.124)	10380	0.25223	75
27 Benzo(g,h,i)perylene	276	15.606	15.602	(1.157)	33855	0.61883	180

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF11025.D

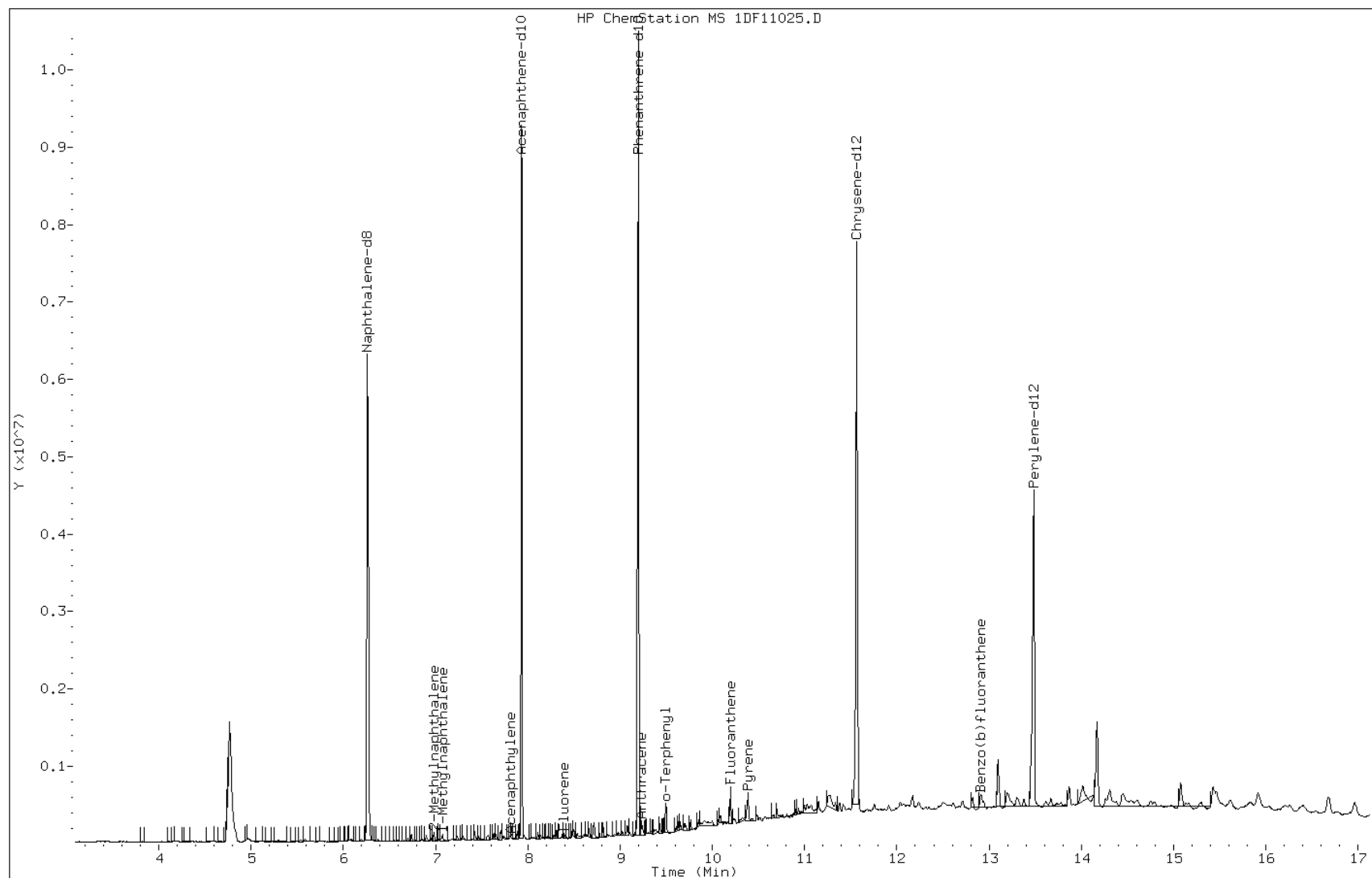
Date: 11-JUN-2013 20:16

Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

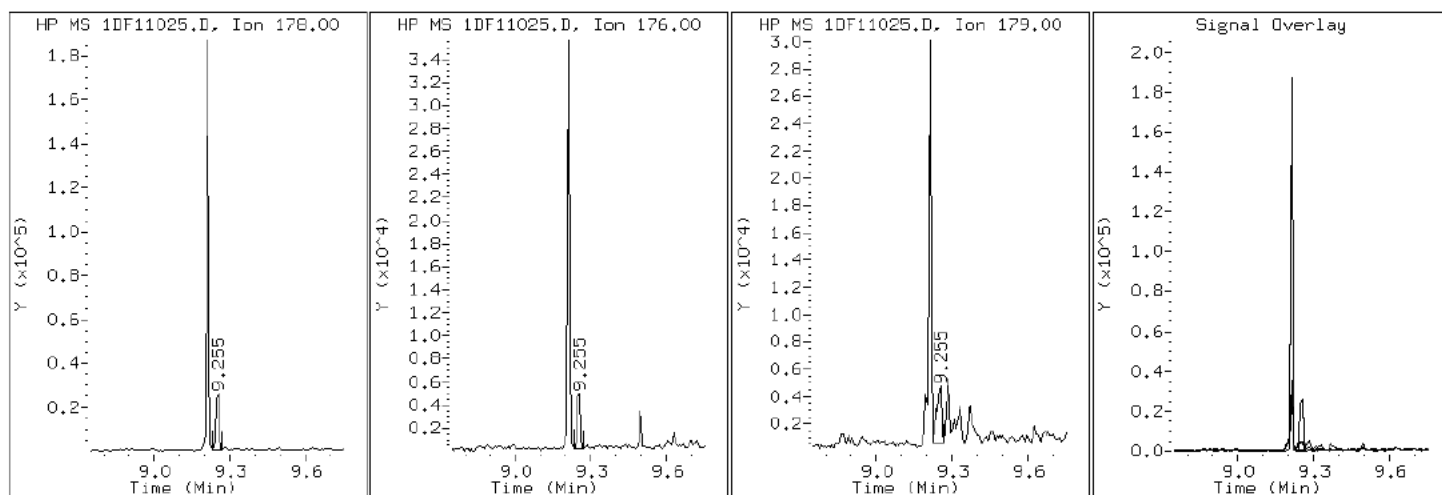
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

13 Anthracene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

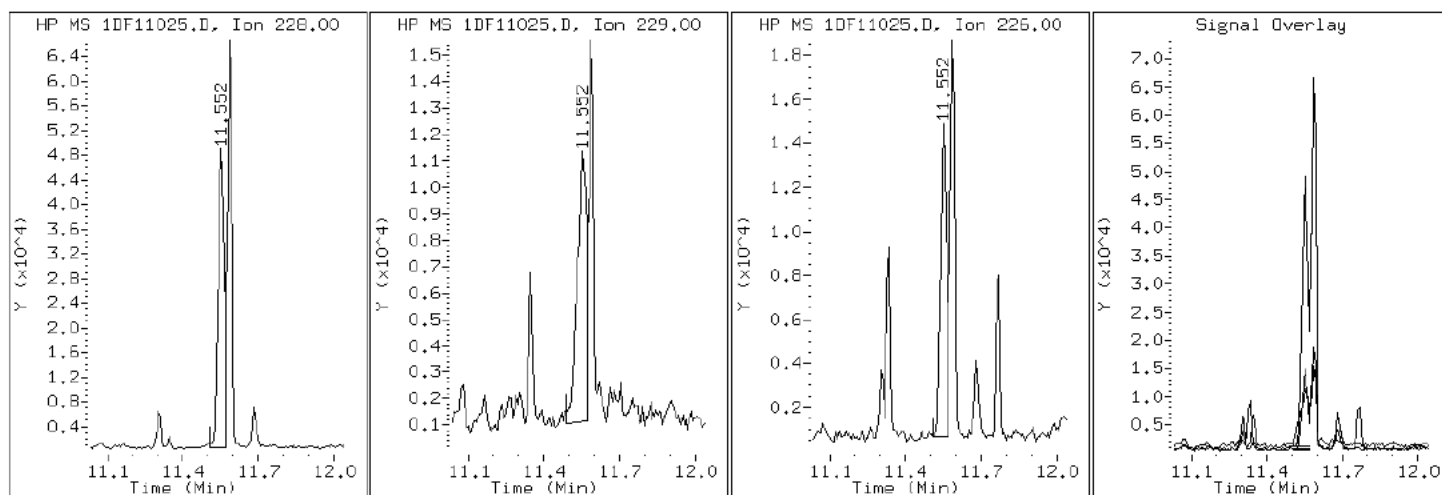
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

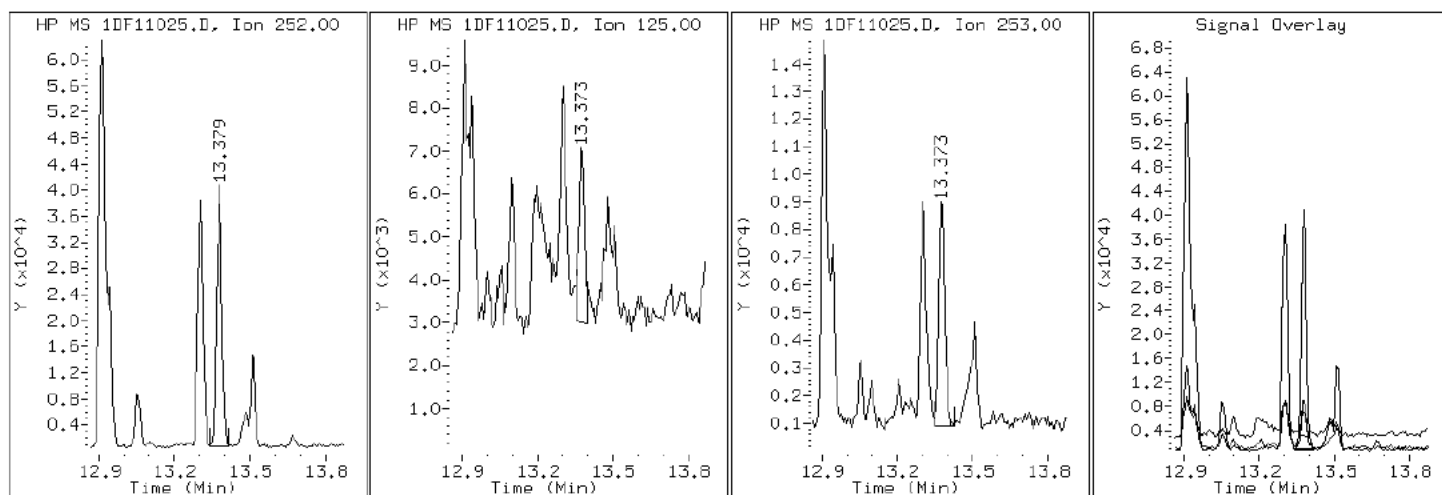
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

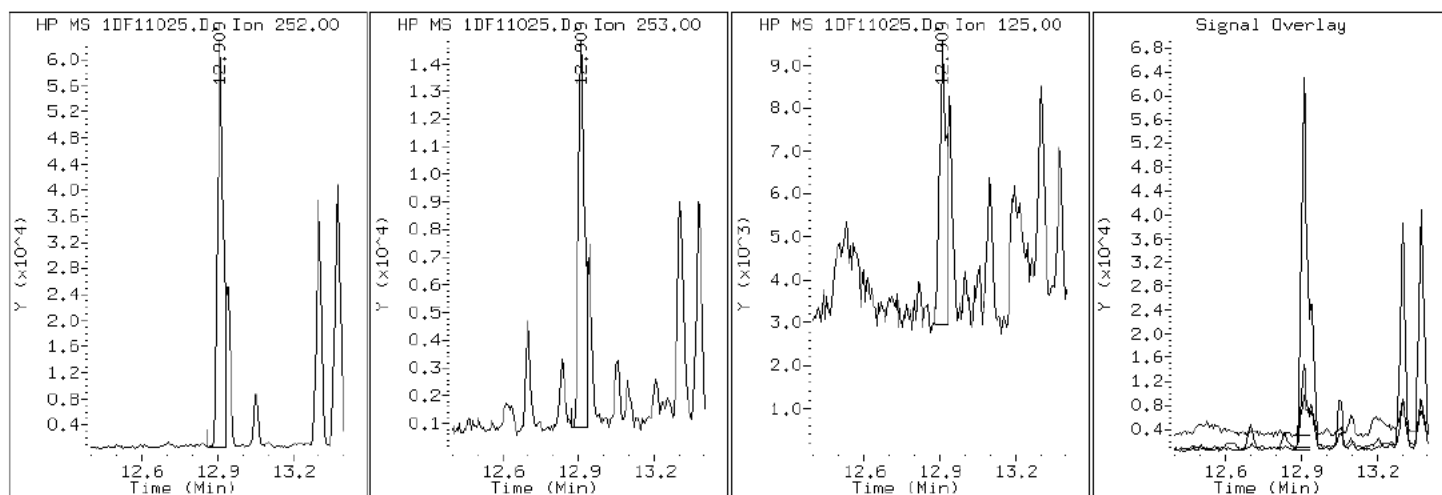
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

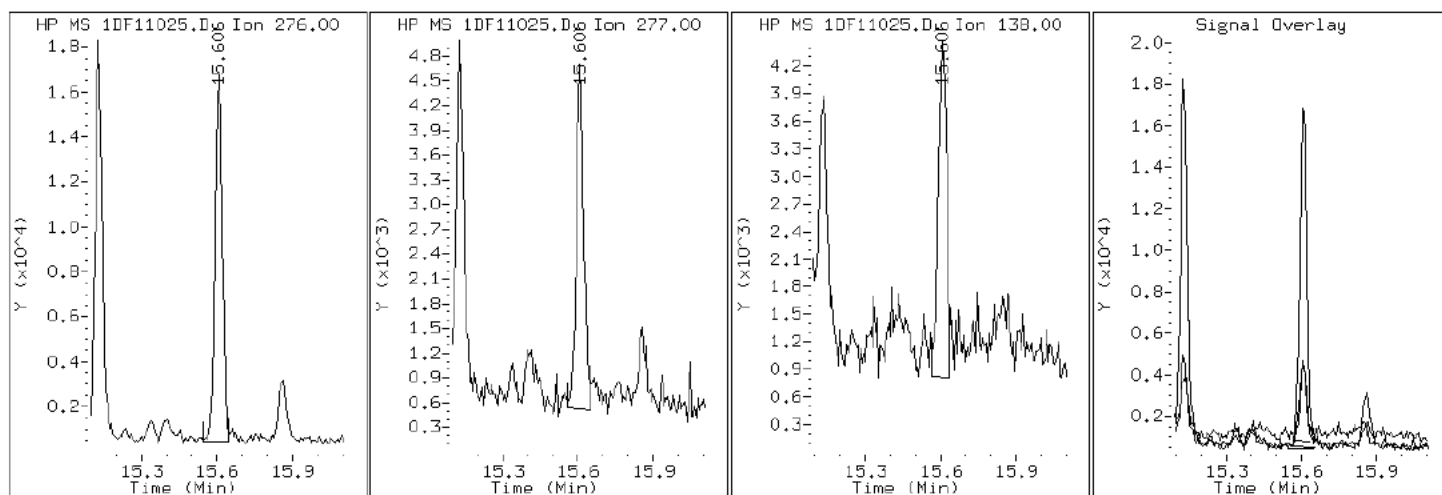
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

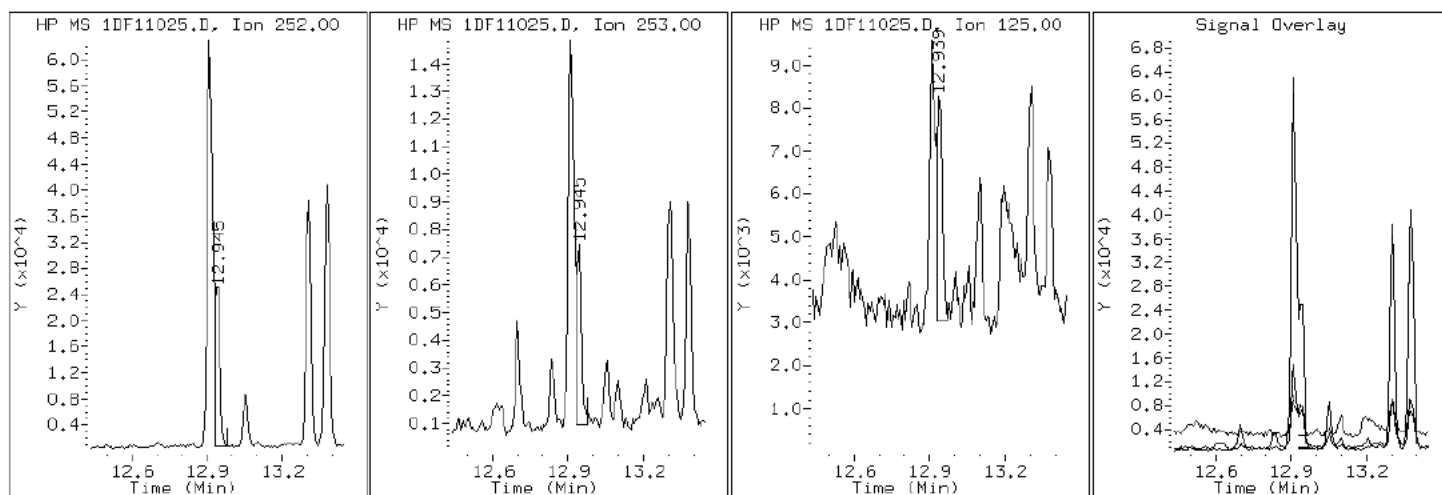
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

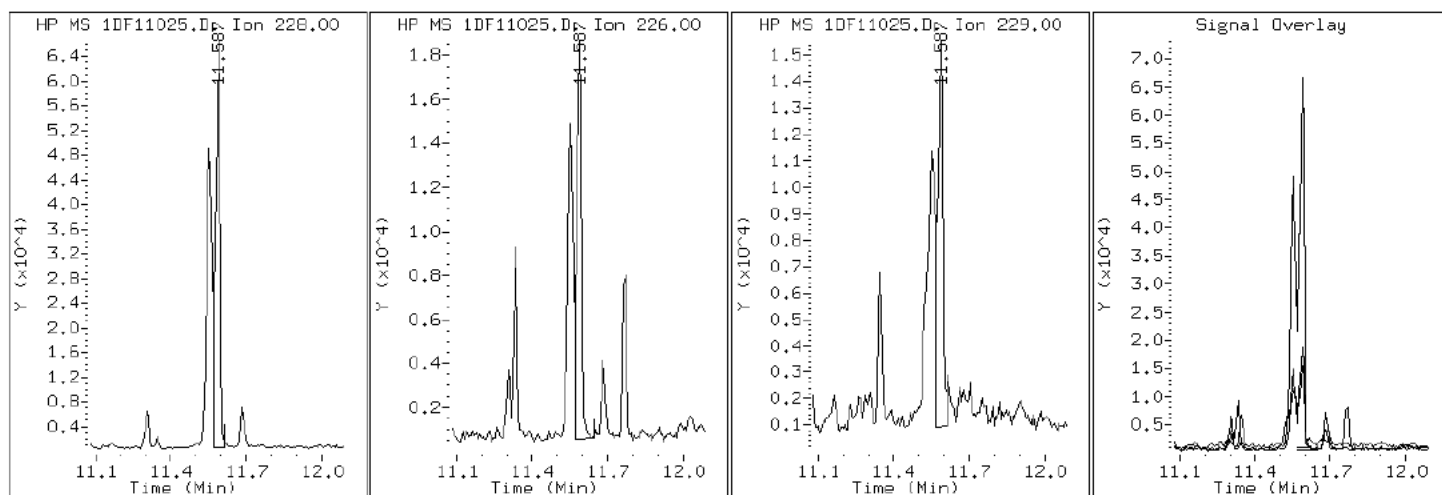
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

20 Chrysene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

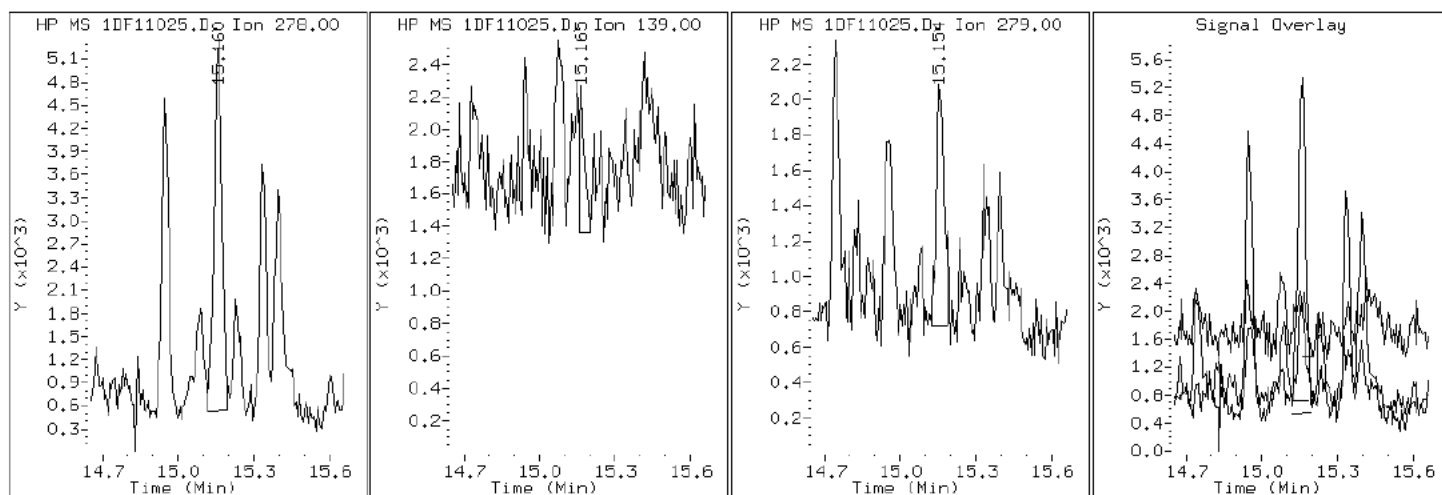
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

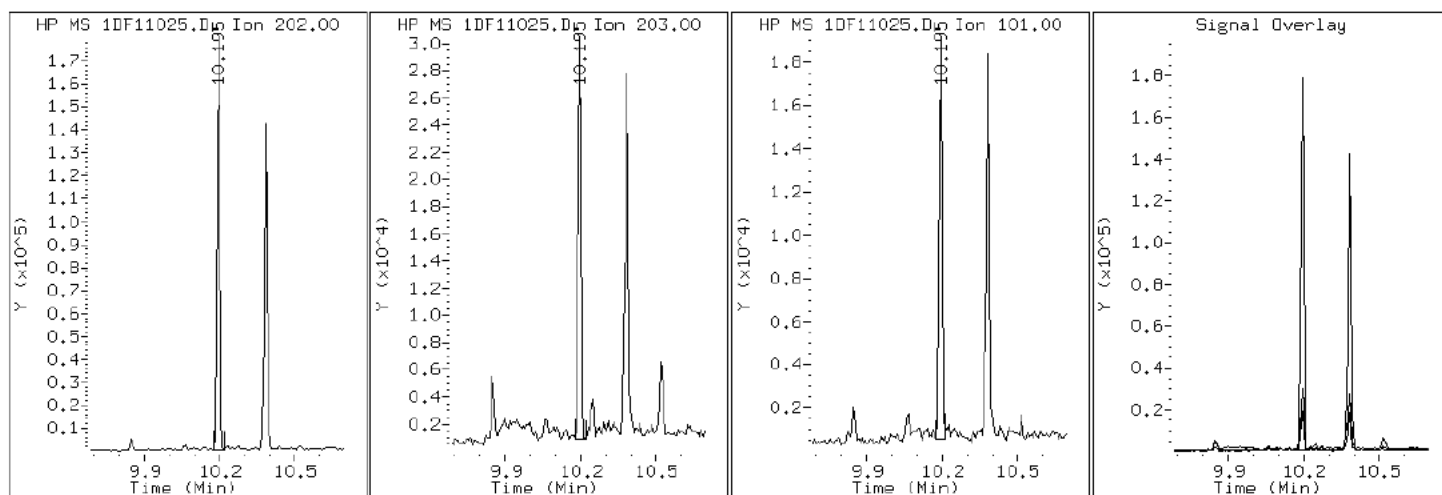
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

16 Fluoranthene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

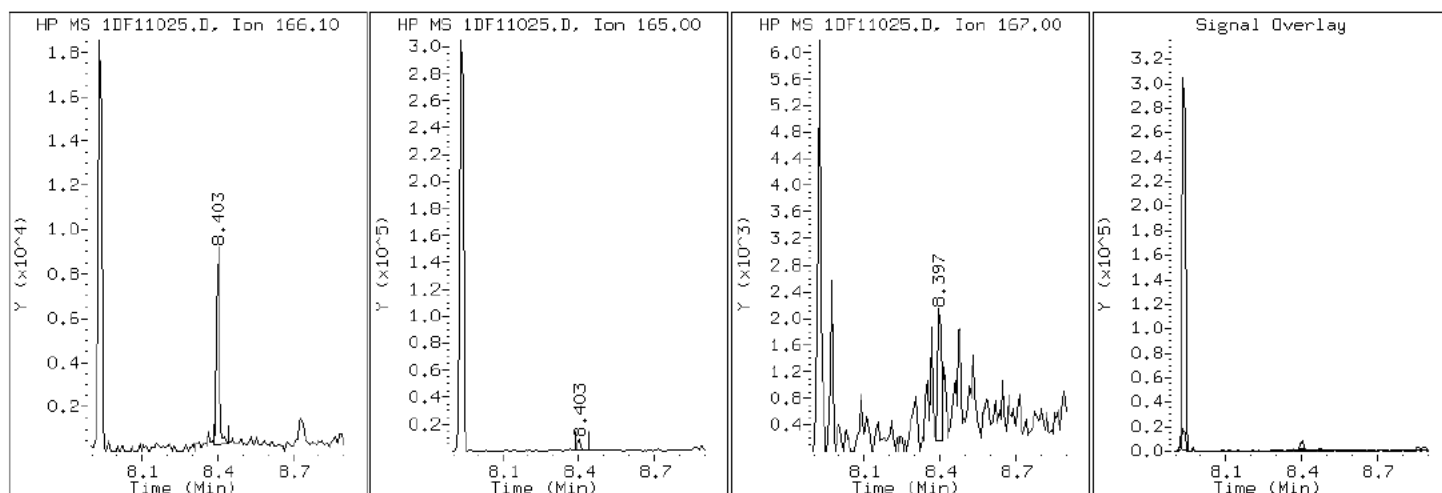
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

10 Fluorene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

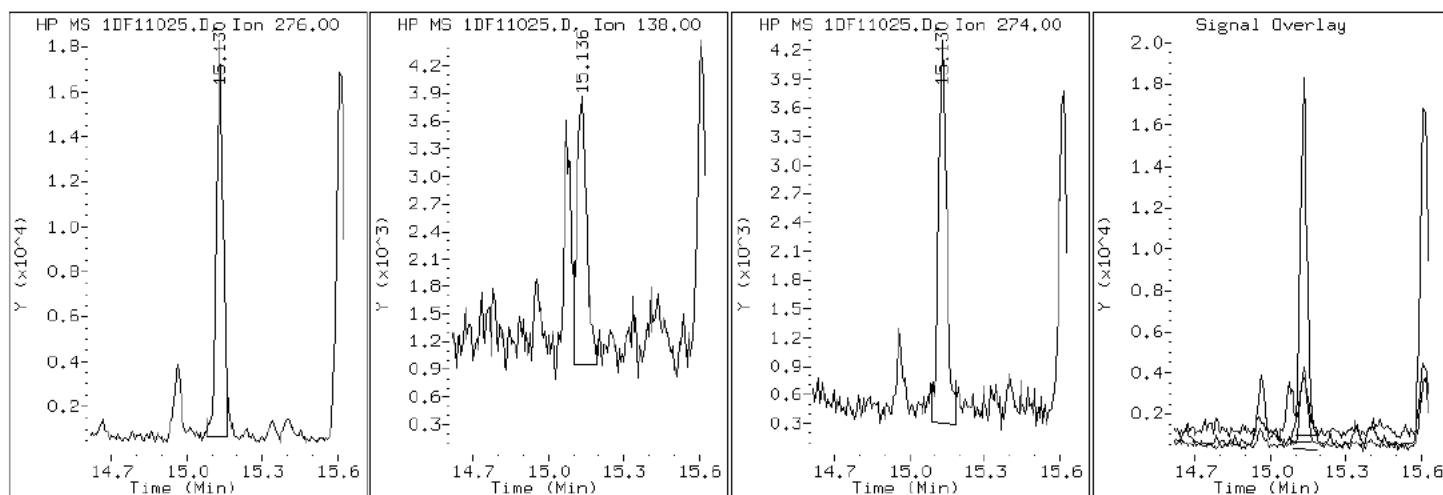
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

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



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

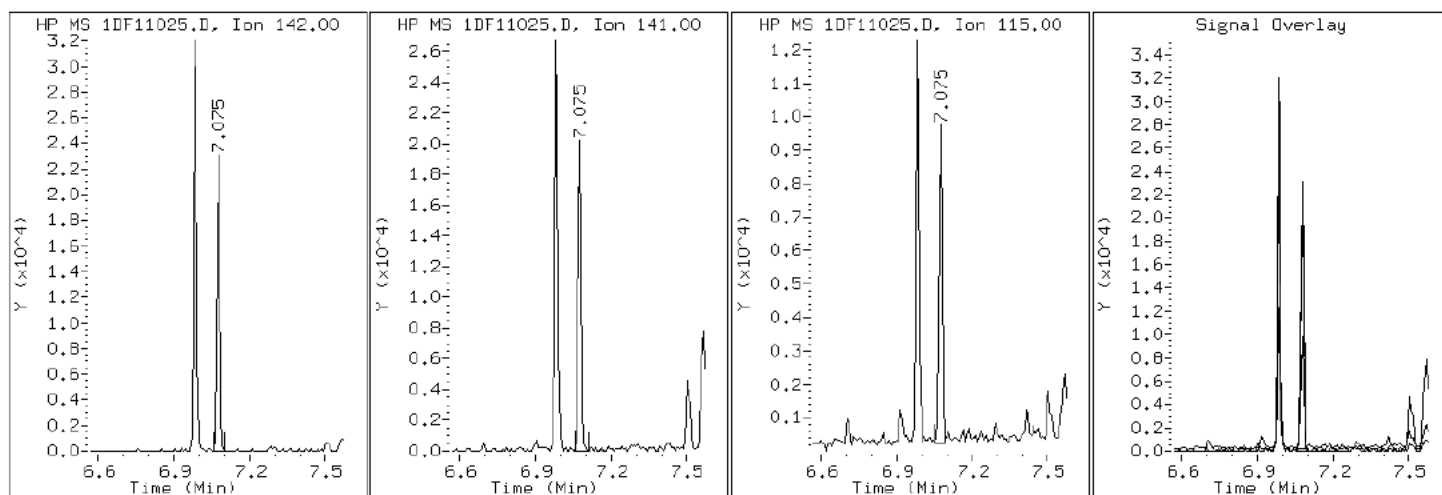
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

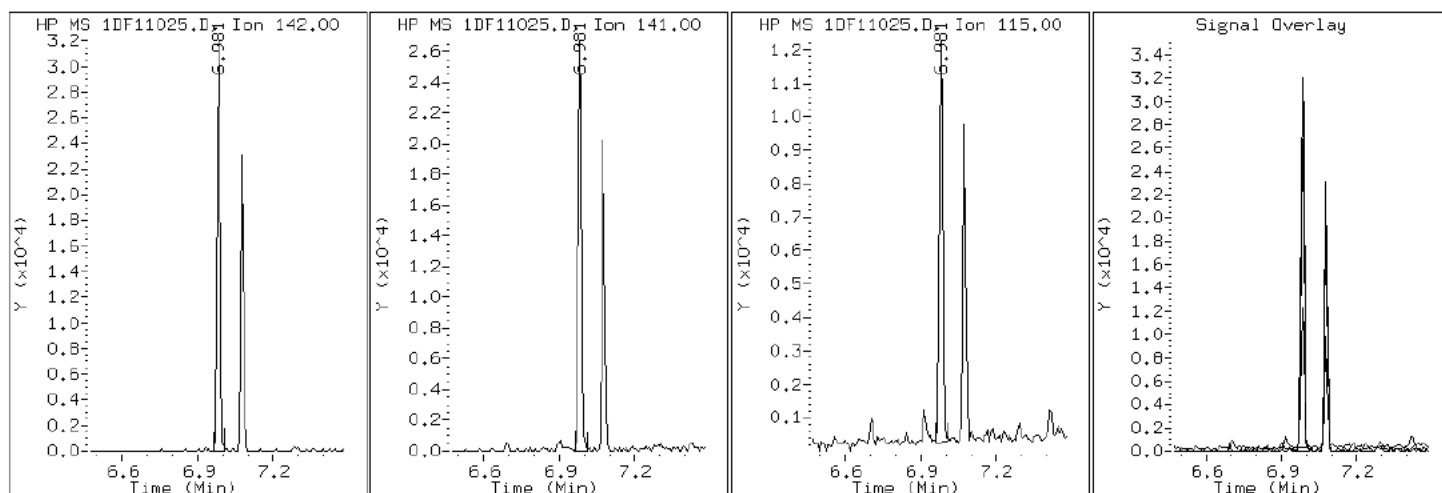
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

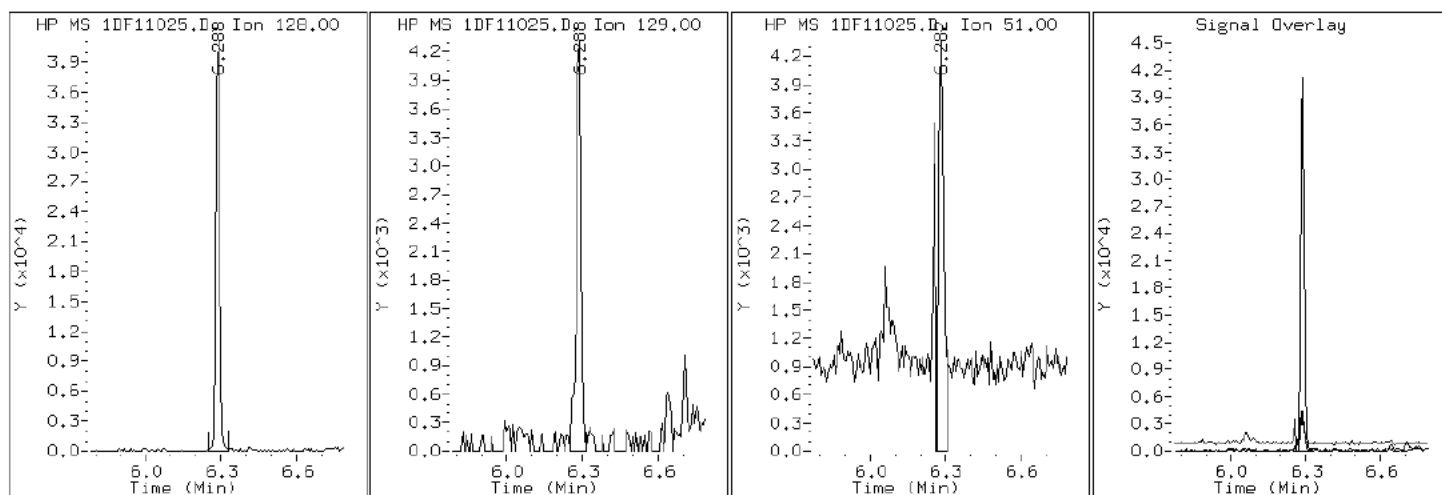
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

2 Naphthalene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

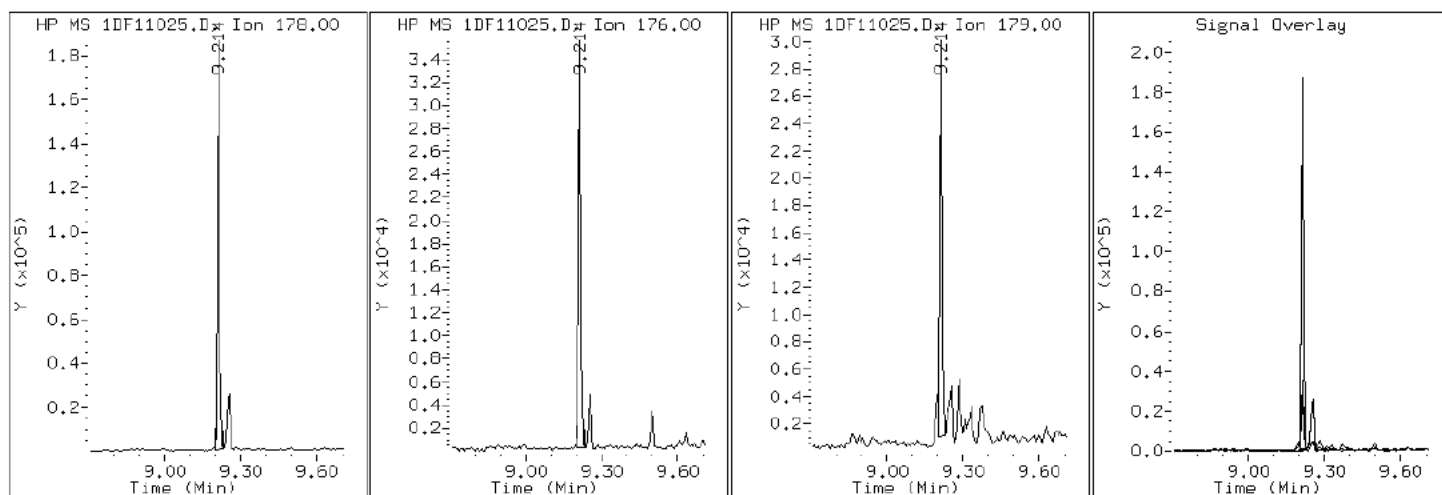
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

12 Phenanthrene



Data File: 1DF11025.D

Date: 11-JUN-2013 20:16

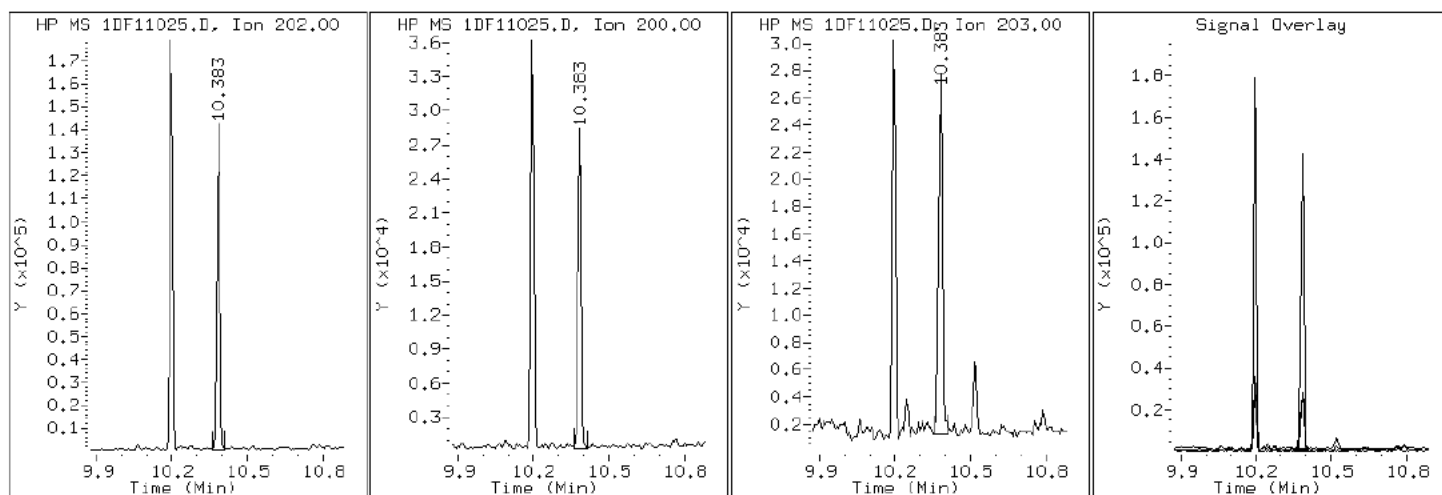
Client ID: CV1285C-CS

Instrument: BSMSD.i

Sample Info: 680-90855-a-23-a

Operator: SCC

17 Pyrene

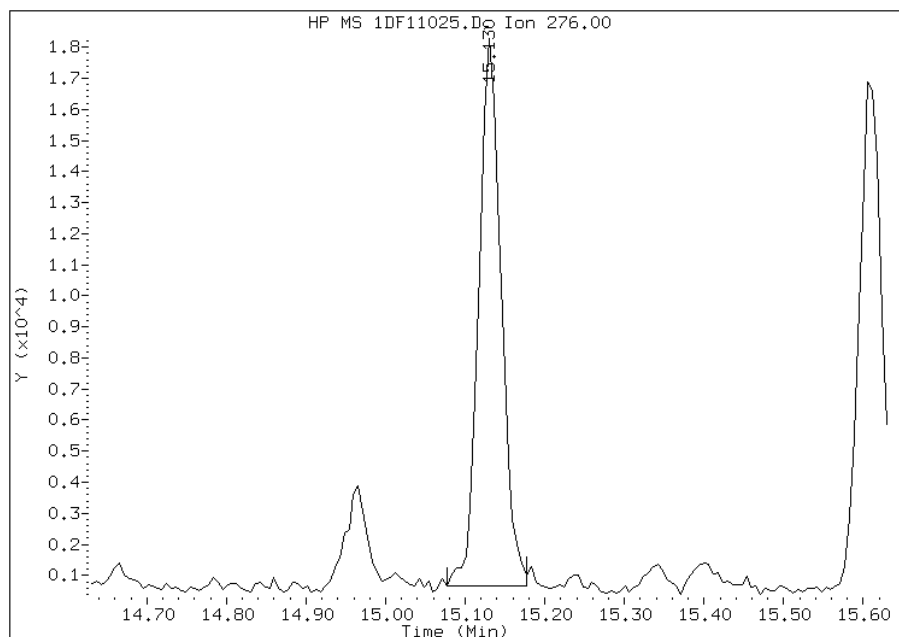


Manual Integration Report

Data File: 1DF11025.D
Inj. Date and Time: 11-JUN-2013 20:16
Instrument ID: BSMSD.i
Client ID: CV1285C-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

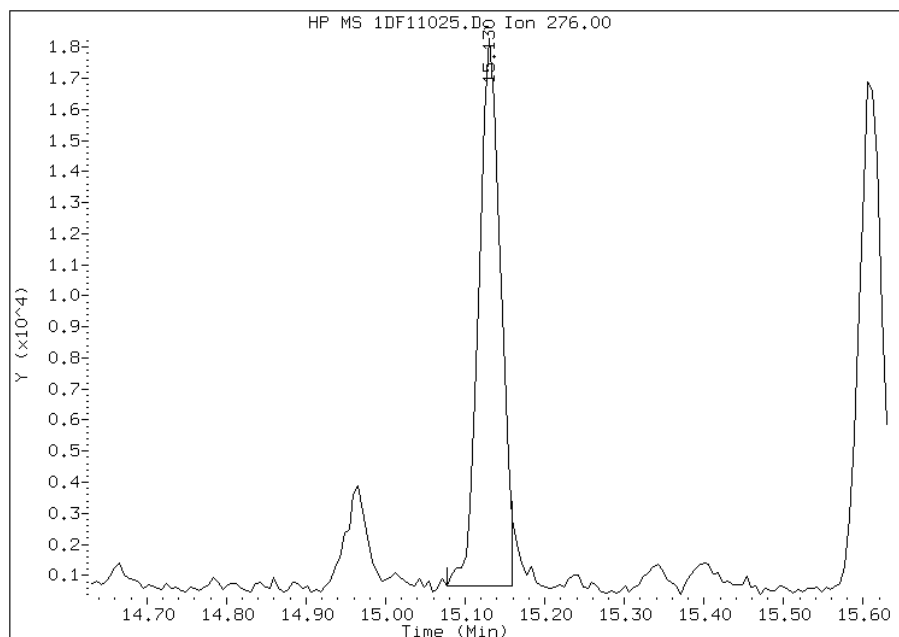
Processing Integration Results

RT: 15.13
Response: 34428
Amount: 1
Conc: 208



Manual Integration Results

RT: 15.13
Response: 33564
Amount: 1
Conc: 204



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:27
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90855-2 Analy Batch No.: 137830

SDG No.: 68090855-2

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137830/3	1DE23003.D
Level 2	IC 660-137830/4	1DE23004.D
Level 3	IC 660-137830/5	1DE23005.D
Level 4	IC 660-137830/6	1DE23006.D
Level 5	ICIS 660-137830/7	1DE23007.D
Level 6	IC 660-137830/8	1DE23008.D
Level 7	IC 660-137830/9	1DE23009.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	1.0062 0.9726	0.9995 0.9719	0.9558	1.0008	0.9980	Ave		0.9864			0.0000	2.0		15.0			
2-Methylnaphthalene	0.5749 0.6384	0.6206 0.6316	0.6261	0.6587	0.6461	Ave		0.6281			0.0000	4.2		15.0			
1-Methylnaphthalene	0.6241 0.6428	0.6597 0.6342	0.6383	0.6735	0.6535	Ave		0.6466			0.0000	2.6		15.0			
1,1'-Biphenyl	1.2558 1.3810	1.3151 1.3708	1.3286	1.4157	1.3930	Ave		1.3514				4.1					
Acenaphthylene	1.3107 1.7873	1.5063 1.7667	1.6358	1.8042	1.7982	Ave		1.6585			0.0000	11.4		15.0			
Acenaphthene	1.0464 1.0507	1.0487 1.0375	1.0260	1.0949	1.0603	Ave		1.0521			0.0000	2.1		15.0			
Dibenzofuran	1.3261 1.4810	1.4516 1.4633	1.4312	1.5056	1.4959	Ave		1.4507				4.2					
Fluorene	1.0233 1.2432	1.1470 1.2316	1.1838	1.2557	1.2481	Ave		1.1904			0.0000	7.0		15.0			
Phenanthrene	1.0916 1.0740	1.0736 1.0745	1.0516	1.1171	1.1008	Ave		1.0833			0.0000	2.0		15.0			
Anthracene	0.9060 1.1005	0.9896 1.0935	1.0526	1.1103	1.1055	Ave		1.0511			0.0000	7.3		15.0			
Fluoranthene	0.9193 1.1786	1.0180 1.1788	1.1083	1.1809	1.1741	Ave		1.1083			0.0000	9.3		15.0			
Pyrene	1.0361 1.2269	1.1042 1.2137	1.1521	1.2414	1.2233	Ave		1.1711			0.0000	6.6		15.0			
Benzo[a]anthracene	1.5197 1.1551	1.1050 1.1845	1.0486	1.1333	1.1636	Ave		1.1871			0.0000	12.9		15.0			
Chrysene	1.2142 1.0365	1.0662 1.0434	1.0077	1.0774	1.0375	Ave		1.0690			0.0000	6.3		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.: 680-90855-2 Analy Batch No.: 137830

SDG No.: 68090855-2

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

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[b]fluoranthene	0.7633 1.0884	0.8861 1.1593	0.9510	1.0666	1.0998	Ave		1.0021			0.0000	14.1		15.0			
Benzo[k]fluoranthene	0.8692 1.1506	0.9589 1.1556	1.0109	1.0979	1.1026	Ave		1.0494			0.0000	10.2		15.0			
Benzo[a]pyrene	0.5413 1.0390	0.7183 1.0772	0.8802	0.9909	1.0194	Lin2	0.0025	0.9921							0.9902		
Indeno[1,2,3-cd]pyrene	0.5529 1.0098	0.6923 1.1024	0.8483	0.9795	0.9683	None	0.0037	1.0397							0.9951		
Dibenz(a,h)anthracene	0.6360 0.9847	0.7785 1.0376	0.8706	0.9418	0.9751	Lin2	0.0018	0.9560							0.9948		
Benzo[g,h,i]perylene	0.7013 0.9827	0.8003 1.0289	0.8929	0.9688	0.9829	Ave		0.9083			0.0000	13.0		15.0			
o-Terphenyl	0.5334 0.6060	0.5610 0.6203	0.5678	0.6036	0.6100	Ave		0.5860			0.0000	5.5		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.: 680-90855-2 Analy Batch No.: 137830

SDG No.: 68090855-2

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137830/3	1DE23003.D
Level 2	IC 660-137830/4	1DE23004.D
Level 3	IC 660-137830/5	1DE23005.D
Level 4	IC 660-137830/6	1DE23006.D
Level 5	ICIS 660-137830/7	1DE23007.D
Level 6	IC 660-137830/8	1DE23008.D
Level 7	IC 660-137830/9	1DE23009.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	14052 2454439	67892 3854620	342402	771801	1601823	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	8029 1611089	42157 2505140	224268	507950	1036995	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8716 1622169	44810 2515238	228660	519415	1048787	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1,1'-Biphenyl	ANT	Ave	10365 1954075	52741 3029358	276490	620318	1271034	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10818 2528965	60413 3904072	340416	790555	1640830	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8637 1486714	42059 2292684	213507	479776	967502	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenzofuran	ANT	Ave	10945 2095529	58216 3233580	297831	659738	1364999	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	8446 1759028	46002 2721626	246360	550212	1138861	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	14705 2572622	71492 3974751	366377	818249	1690403	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	12204 2636003	65898 4044900	366727	813240	1697570	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	12384 2822979	67793 4360425	386131	864953	1802958	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13459 2878307	72384 4398475	400281	887682	1840728	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	19741 2709801	72436 4292530	364317	810407	1750909	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15772 2431700	69888 3781128	350103	770411	1561209	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	10089 2543308	60091 4185749	340701	782118	1676574	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.: 680-90855-2 Analy Batch No.: 137830

SDG No.: 68090855-2

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

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

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[k]fluoranthene	PRY	Ave	11489 2688538	65030 4172175	362152	805050	1680826	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Lin2	7155 2427727	48714 3889042	315324	726611	1554051	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	None	7308 2359651	46950 3980252	303899	718264	1476159	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Lin2	8406 2300940	52791 3746128	311908	690573	1486524	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	9269 2296193	54271 3714851	319890	710395	1498391	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7185 1451630	37357 2294445	197816	442134	936684	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
None = No Calib Curve

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23003.D
 Lab Smp Id: IC1
 Inj Date : 23-MAY-2013 13:03
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC1
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.283	6.283	(1.000)	2793016	40.0000	
* 7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1650729	40.0000	
* 11 Phenanthrene-d10	188	9.209	9.209	(1.000)	2694117	40.0000	
\$ 15 o-Terphenyl	230	9.520	9.520	(1.034)	7185	0.20000	0.18
* 19 Chrysene-d12	240	11.571	11.571	(1.000)	2598008	40.0000	
* 24 Perylene-d12	264	13.480	13.480	(1.000)	2643475	40.0000	
2 Naphthalene	128	6.307	6.307	(1.004)	14052	0.20000	0.20
3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	8029	0.20000	0.18
4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	8716	0.20000	0.19
5 1,1'-Biphenyl	154	7.441	7.441	(0.936)	10365	0.20000	0.32
6 Acenaphthylene	152	7.822	7.822	(0.984)	10818	0.20000	0.16
8 Acenaphthene	154	7.975	7.975	(1.003)	8637	0.20000	0.20
9 Dibenzofuran	168	8.128	8.128	(1.022)	10945	0.20000	0.18
10 Fluorene	166	8.416	8.416	(1.058)	8446	0.20000	0.17
12 Phenanthrene	178	9.227	9.227	(1.002)	14705	0.20000	0.20
13 Anthracene	178	9.268	9.268	(1.006)	12204	0.20000	0.17
16 Fluoranthene	202	10.208	10.208	(1.108)	12384	0.20000	0.16
17 Pyrene	202	10.396	10.396	(0.898)	13459	0.20000	0.18
18 Benzo(a)anthracene	228	11.559	11.559	(0.999)	19741	0.20000	0.26
20 Chrysene	228	11.594	11.594	(1.002)	15772	0.20000	0.23
21 Benzo(b)fluoranthene	252	12.905	12.905	(0.957)	10089	0.20000	0.15
22 Benzo(k)fluoranthene	252	12.940	12.940	(0.960)	11489	0.20000	0.16
23 Benzo(a)pyrene	252	13.369	13.369	(0.992)	7155	0.20000	0.21
25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.120)	7308	0.20000	0.25(H)
26 Dibenzo(a,h)anthracene	278	15.149	15.149	(1.124)	8406	0.20000	0.20(M)
27 Benzo(g,h,i)perylene	276	15.572	15.572	(1.155)	9269	0.20000	0.15(MH)

QC Flag Legend

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

Data File: 1DE23003.D

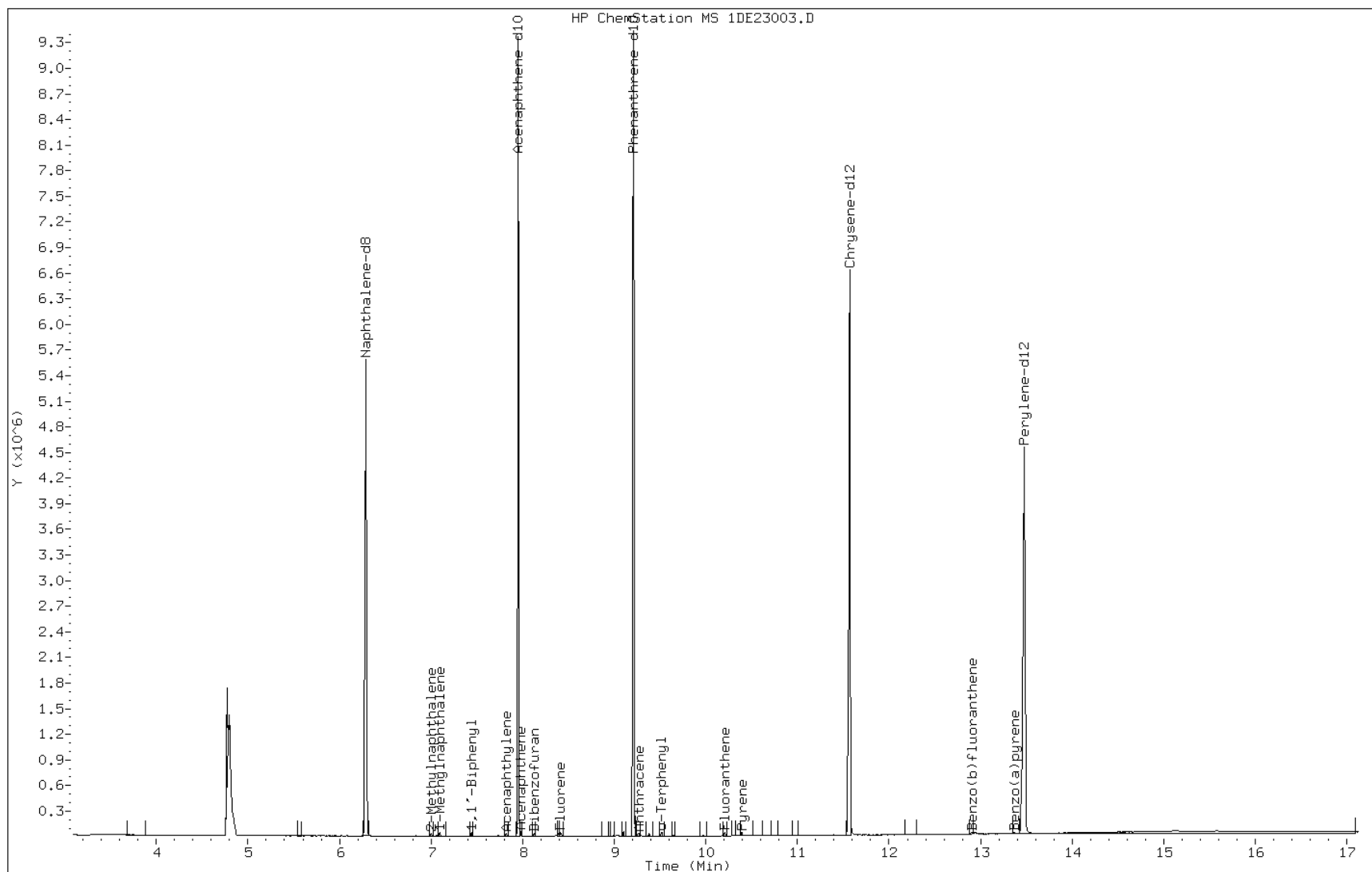
Date: 23-MAY-2013 13:03

Client ID:

Instrument: BSMSD.i

Sample Info: IC1

Operator: SCC

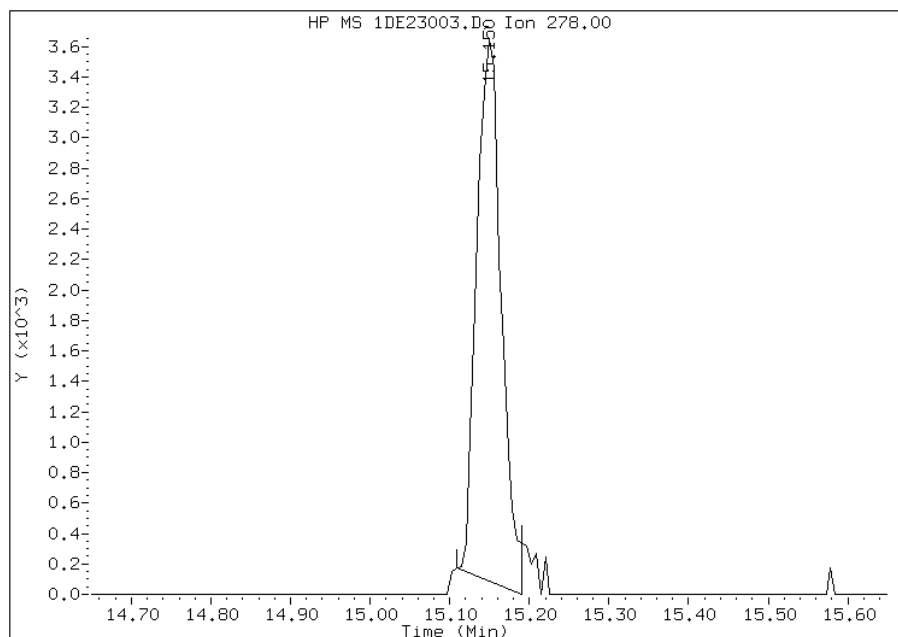


Manual Integration Report

Data File: 1DE23003.D
Inj. Date and Time: 23-MAY-2013 13:03
Instrument ID: BSMSD.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/28/2013

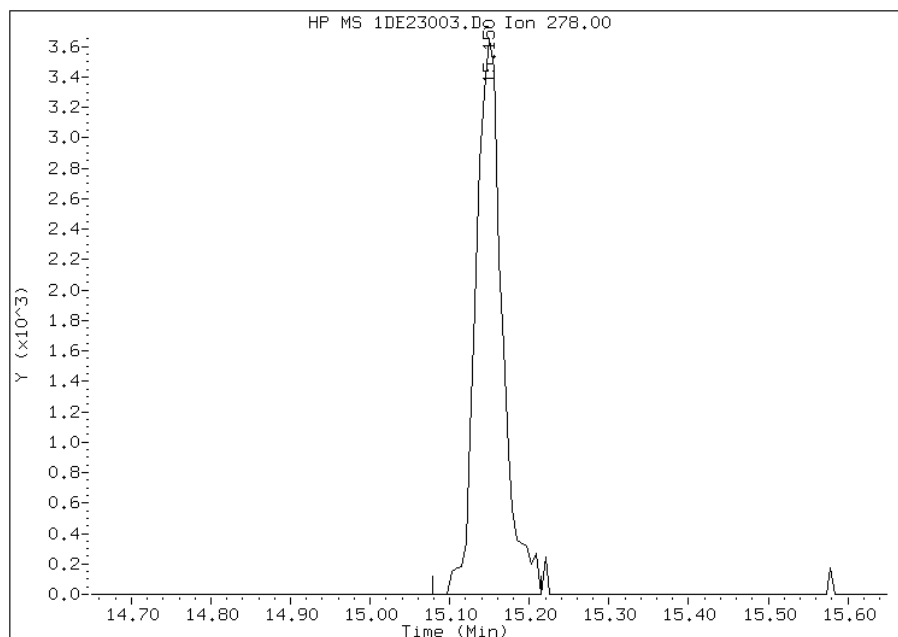
Processing Integration Results

RT: 15.15
Response: 7611
Amount: 0
Conc: 0



Manual Integration Results

RT: 15.15
Response: 8406
Amount: 0
Conc: 0



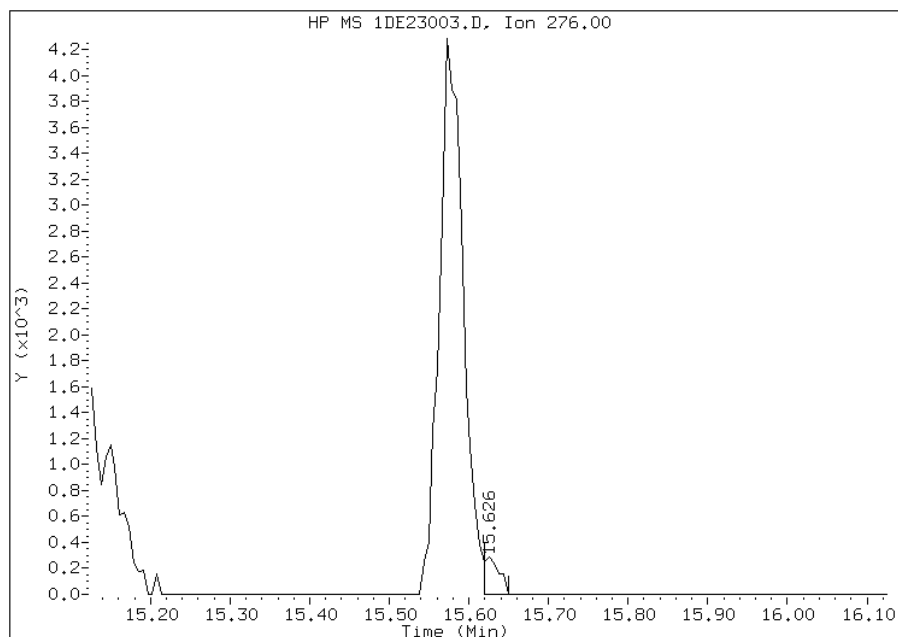
Manually Integrated By: cantins
Modification Date: 28-May-2013 11:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE23003.D
Inj. Date and Time: 23-MAY-2013 13:03
Instrument ID: BSMSD.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/28/2013

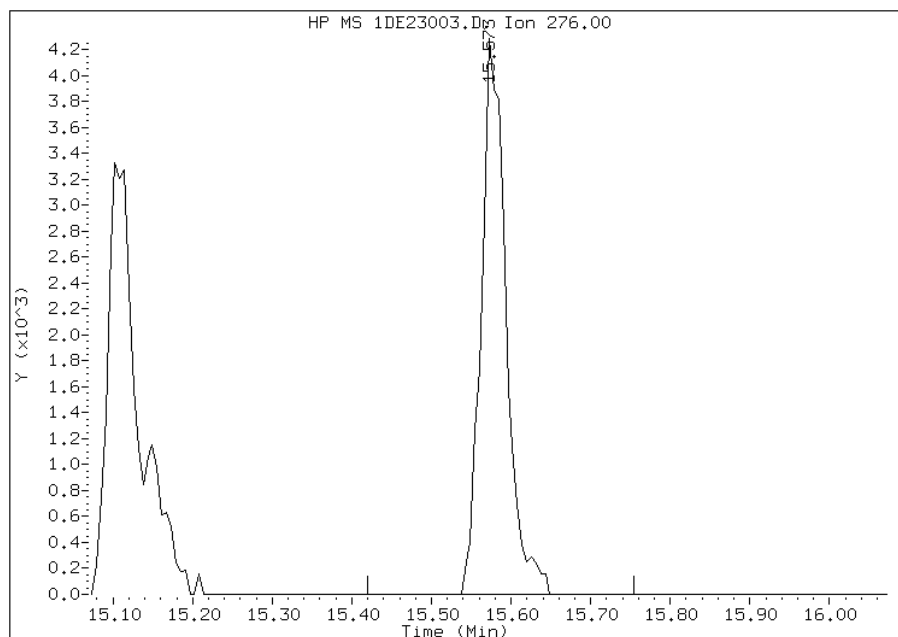
Processing Integration Results

RT: 15.63
Response: 387
Amount: 0
Conc: 0



Manual Integration Results

RT: 15.57
Response: 9269
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 28-May-2013 11:37
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23004.D
 Lab Smp Id: IC2
 Inj Date : 23-MAY-2013 13:26
 Operator : SCC
 Smp Info : IC2
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 13:03 Cal File: 1DE23003.D
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.283	6.283	(1.000)	2717054	40.0000	
* 7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1604224	40.0000	
* 11 Phenanthrene-d10	188	9.203	9.203	(1.000)	2663694	40.0000	
\$ 15 o-Terphenyl	230	9.515	9.515	(1.034)	37357	1.00000	0.96
* 19 Chrysene-d12	240	11.565	11.565	(1.000)	2622056	40.0000	
* 24 Perylene-d12	264	13.469	13.469	(1.000)	2712615	40.0000	
2 Naphthalene	128	6.301	6.301	(1.003)	67892	1.00000	1.0
3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	42157	1.00000	0.99
4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	44810	1.00000	1.0
5 1,1'-Biphenyl	154	7.435	7.435	(0.935)	52741	1.00000	1.6
6 Acenaphthylene	152	7.817	7.817	(0.983)	60413	1.00000	0.91
8 Acenaphthene	154	7.975	7.975	(1.003)	42059	1.00000	1.00
9 Dibenzofuran	168	8.122	8.122	(1.021)	58216	1.00000	1.0
10 Fluorene	166	8.416	8.416	(1.058)	46002	1.00000	0.96
12 Phenanthrene	178	9.221	9.221	(1.002)	71492	1.00000	0.99
13 Anthracene	178	9.262	9.262	(1.006)	65898	1.00000	0.94
16 Fluoranthene	202	10.202	10.202	(1.109)	67793	1.00000	0.92
17 Pyrene	202	10.390	10.390	(0.898)	72384	1.00000	0.94
18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	72436	1.00000	0.93
20 Chrysene	228	11.589	11.589	(1.002)	69888	1.00000	1.00
21 Benzo(b)fluoranthene	252	12.899	12.899	(0.958)	60091	1.00000	0.88
22 Benzo(k)fluoranthene	252	12.934	12.934	(0.960)	65030	1.00000	0.91
23 Benzo(a)pyrene	252	13.363	13.363	(0.992)	48714	1.00000	0.82
25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.121)	46950	1.00000	0.81(H)
26 Dibenzo(a,h)anthracene	278	15.138	15.138	(1.124)	52791	1.00000	0.89
27 Benzo(g,h,i)perylene	276	15.567	15.567	(1.156)	54271	1.00000	0.88

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DE23004.D

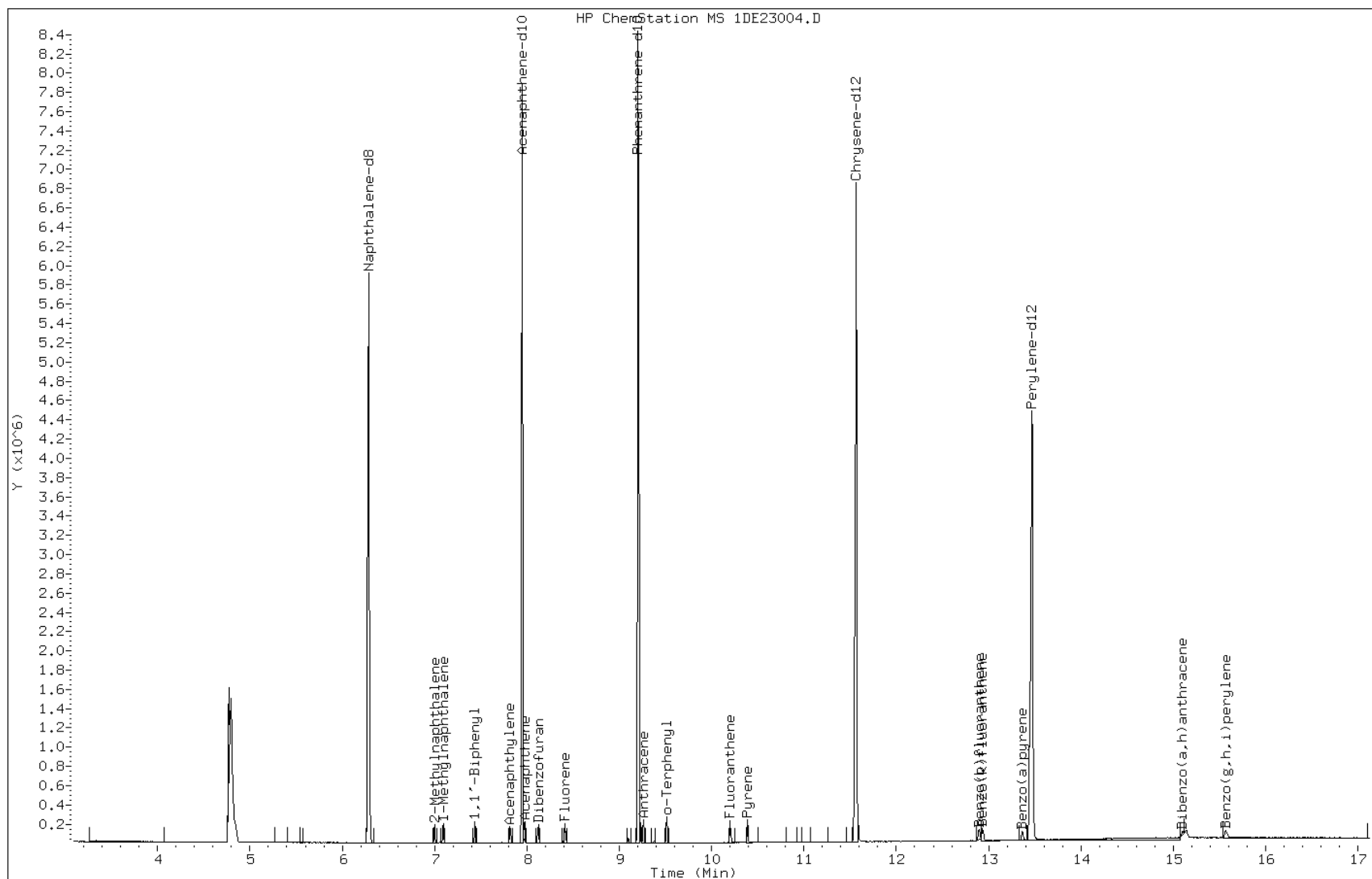
Date: 23-MAY-2013 13:26

Client ID:

Instrument: BSMSD.i

Sample Info: IC2

Operator: SCC



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Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23005.D
 Lab Smp Id: IC3
 Inj Date : 23-MAY-2013 13:48
 Operator : SCC
 Smp Info : IC3
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 13:26 Cal File: 1DE23004.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Compound Sublist: pah.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.280	6.280	(1.000)	2865774	40.0000	
* 7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1664831	40.0000	
* 11 Phenanthrene-d10	188	9.206	9.206	(1.000)	2787264	40.0000	
\$ 15 o-Terphenyl	230	9.512	9.512	(1.033)	197816	5.00000	4.8
* 19 Chrysene-d12	240	11.568	11.568	(1.000)	2779548	40.0000	
* 24 Perylene-d12	264	13.472	13.472	(1.000)	2866015	40.0000	
2 Naphthalene	128	6.304	6.304	(1.004)	342402	5.00000	4.8
3 2-Methylnaphthalene	142	6.997	6.997	(1.114)	224268	5.00000	5.0
4 1-Methylnaphthalene	142	7.091	7.091	(1.129)	228660	5.00000	4.9
5 1,1'-Biphenyl	154	7.438	7.438	(0.936)	276490	5.00000	7.2
6 Acenaphthylene	152	7.820	7.820	(0.984)	340416	5.00000	4.9
8 Acenaphthene	154	7.973	7.973	(1.003)	213507	5.00000	4.9
9 Dibenzofuran	168	8.119	8.119	(1.021)	297831	5.00000	4.9
10 Fluorene	166	8.413	8.413	(1.058)	246360	5.00000	5.0
12 Phenanthrene	178	9.224	9.224	(1.002)	366377	5.00000	4.8
13 Anthracene	178	9.265	9.265	(1.006)	366727	5.00000	5.0
16 Fluoranthene	202	10.205	10.205	(1.108)	386131	5.00000	5.0
17 Pyrene	202	10.393	10.393	(0.898)	400281	5.00000	4.9
18 Benzo(a)anthracene	228	11.551	11.551	(0.998)	364317	5.00000	4.4
20 Chrysene	228	11.592	11.592	(1.002)	350103	5.00000	4.7
21 Benzo(b)fluoranthene	252	12.902	12.902	(0.958)	340701	5.00000	4.7
22 Benzo(k)fluoranthene	252	12.937	12.937	(0.960)	362152	5.00000	4.8
23 Benzo(a)pyrene	252	13.366	13.366	(0.992)	315324	5.00000	4.5
25 Indeno(1,2,3-cd)pyrene	276	15.105	15.105	(1.121)	303899	5.00000	4.2(H)
26 Dibenzo(a,h)anthracene	278	15.146	15.146	(1.124)	311908	5.00000	4.6
27 Benzo(g,h,i)perylene	276	15.575	15.575	(1.156)	319890	5.00000	4.9

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DE23005.D

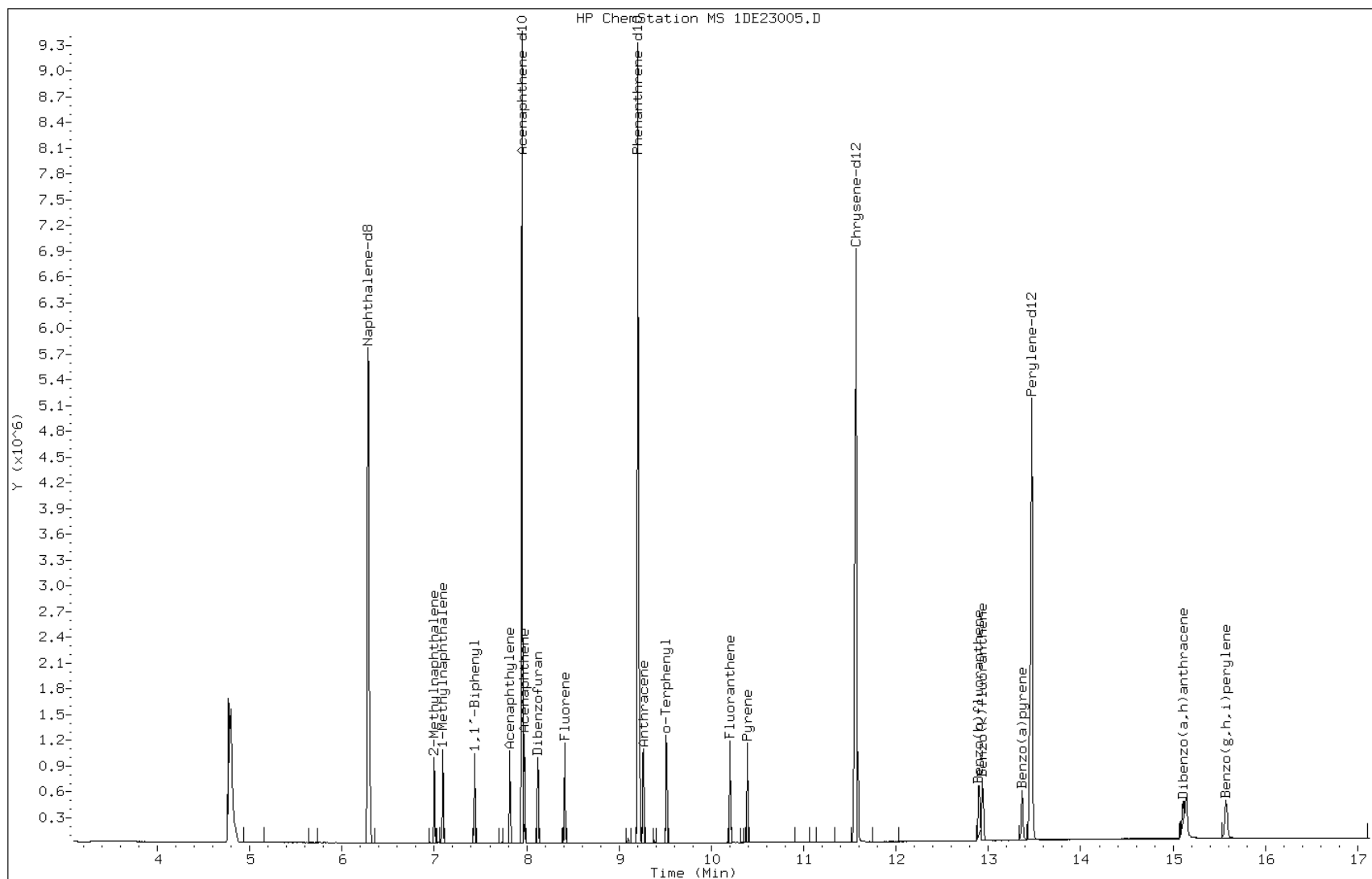
Date: 23-MAY-2013 13:48

Client ID:

Instrument: BSMSD.i

Sample Info: IC3

Operator: SCC



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Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23006.D
 Lab Smp Id: IC4
 Inj Date : 23-MAY-2013 14:11
 Operator : SCC
 Smp Info : IC4
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 13:48 Cal File: 1DE23005.D
 Als bottle: 6 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Inst ID: BSMSD.i
 Compound Sublist: pah.sub

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.284	6.284	(1.000)	3084725	40.0000	
* 7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1752742	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.204	(1.000)	2929857	40.0000	
\$ 15 o-Terphenyl	230	9.515	9.515	(1.034)	442134	10.0000	10
* 19 Chrysene-d12	240	11.566	11.566	(1.000)	2860263	40.0000	
* 24 Perylene-d12	264	13.469	13.469	(1.000)	2933068	40.0000	
2 Naphthalene	128	6.301	6.301	(1.003)	771801	10.0000	10
3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	507950	10.0000	10
4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	519415	10.0000	10
5 1,1'-Biphenyl	154	7.435	7.435	(0.936)	620318	10.0000	14
6 Acenaphthylene	152	7.817	7.817	(0.984)	790555	10.0000	11
8 Acenaphthene	154	7.976	7.976	(1.004)	479776	10.0000	10
9 Dibenzofuran	168	8.123	8.123	(1.022)	659738	10.0000	10
10 Fluorene	166	8.416	8.416	(1.059)	550212	10.0000	10
12 Phenanthrene	178	9.221	9.221	(1.002)	818249	10.0000	10
13 Anthracene	178	9.263	9.263	(1.006)	813240	10.0000	10
16 Fluoranthene	202	10.203	10.203	(1.109)	864953	10.0000	11
17 Pyrene	202	10.391	10.391	(0.898)	887682	10.0000	11
18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	810407	10.0000	9.5
20 Chrysene	228	11.589	11.589	(1.002)	770411	10.0000	10
21 Benzo(b)fluoranthene	252	12.905	12.905	(0.958)	782118	10.0000	11
22 Benzo(k)fluoranthene	252	12.941	12.941	(0.961)	805050	10.0000	10
23 Benzo(a)pyrene	252	13.369	13.369	(0.993)	726611	10.0000	10
25 Indeno(1,2,3-cd)pyrene	276	15.114	15.114	(1.122)	718264	10.0000	9.6
26 Dibenzo(a,h)anthracene	278	15.150	15.150	(1.125)	690573	10.0000	9.9
27 Benzo(g,h,i)perylene	276	15.585	15.585	(1.157)	710395	10.0000	11

Data File: 1DE23006.D

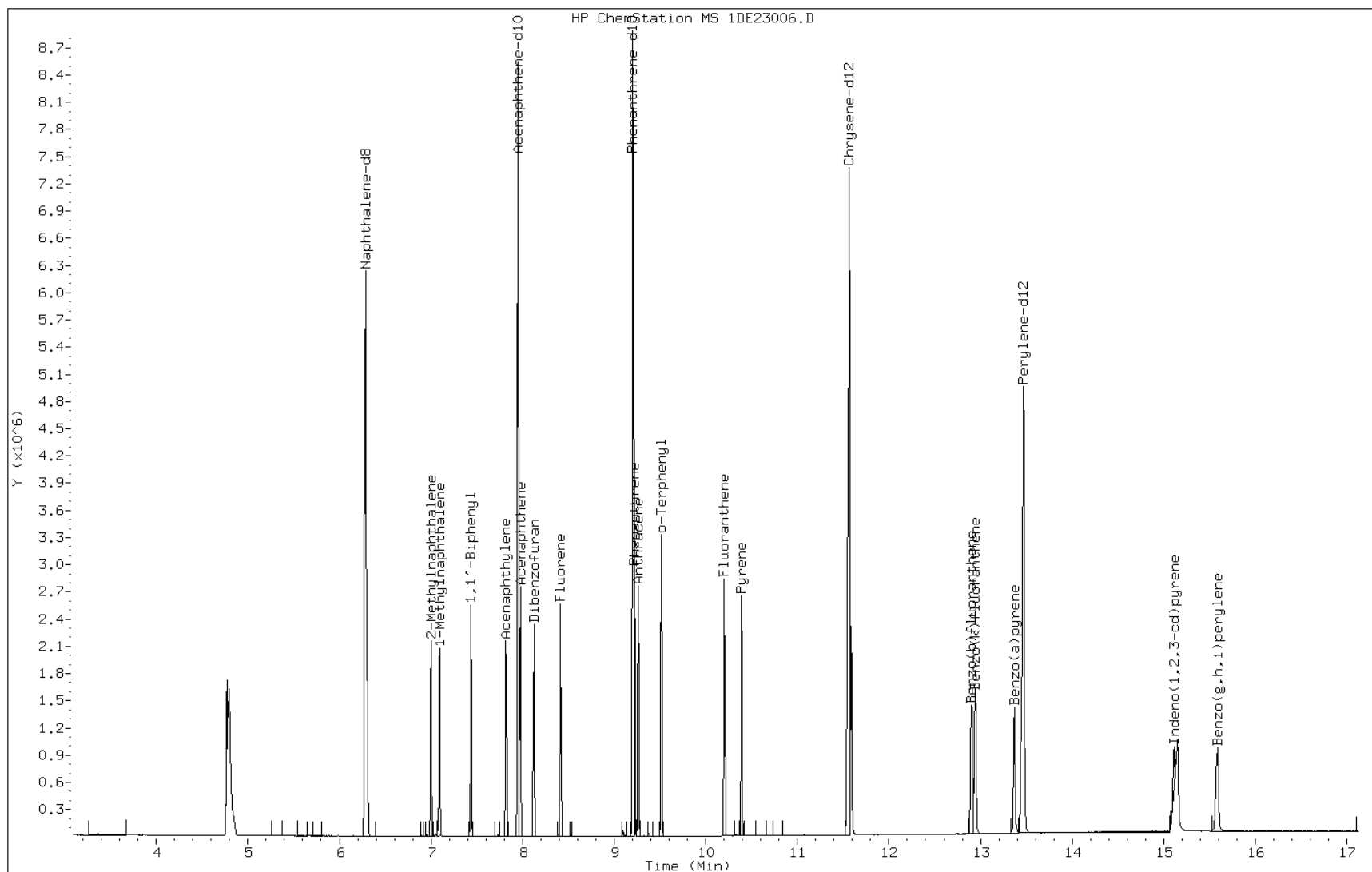
Date: 23-MAY-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC4

Operator: SCC



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Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23007.D
 Lab Smp Id: ICIS
 Inj Date : 23-MAY-2013 14:33
 Operator : SCC
 Smp Info : ICIS
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:11 Cal File: 1DE23006.D
 Als bottle: 7 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Inst ID: BSMSD.i
 Compound Sublist: pah.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.284	6.284	(1.000)	3209942	40.0000	
* 7 Acenaphthene-d10	164	7.947	7.947	(1.000)	1824950	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3071098	40.0000	
\$ 15 o-Terphenyl	230	9.515	9.515	(1.034)	936684	20.0000	21
* 19 Chrysene-d12	240	11.566	11.566	(1.000)	3009447	40.0000	
* 24 Perylene-d12	264	13.476	13.476	(1.000)	3048824	40.0000	
2 Naphthalene	128	6.302	6.302	(1.003)	1601823	20.0000	20
3 2-Methylnaphthalene	142	7.001	7.001	(1.114)	1036995	20.0000	20
4 1-Methylnaphthalene	142	7.095	7.095	(1.129)	1048787	20.0000	20
5 1,1'-Biphenyl	154	7.436	7.436	(0.936)	1271034	20.0000	26
6 Acenaphthylene	152	7.817	7.817	(0.984)	1640830	20.0000	22
8 Acenaphthene	154	7.976	7.976	(1.004)	967502	20.0000	20
9 Dibenzofuran	168	8.123	8.123	(1.022)	1364999	20.0000	21
10 Fluorene	166	8.417	8.417	(1.059)	1138861	20.0000	21
12 Phenanthrene	178	9.228	9.228	(1.003)	1690403	20.0000	20
13 Anthracene	178	9.263	9.263	(1.006)	1697570	20.0000	21
16 Fluoranthene	202	10.203	10.203	(1.109)	1802958	20.0000	21
17 Pyrene	202	10.397	10.397	(0.899)	1840728	20.0000	21
18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	1750909	20.0000	20
20 Chrysene	228	11.595	11.595	(1.003)	1561209	20.0000	19
21 Benzo(b)fluoranthene	252	12.912	12.912	(0.958)	1676574	20.0000	22
22 Benzo(k)fluoranthene	252	12.953	12.953	(0.961)	1680826	20.0000	21
23 Benzo(a)pyrene	252	13.376	13.376	(0.993)	1554051	20.0000	21
25 Indeno(1,2,3-cd)pyrene	276	15.127	15.127	(1.123)	1476159	20.0000	19
26 Dibenzo(a,h)anthracene	278	15.162	15.162	(1.125)	1486524	20.0000	20
27 Benzo(g,h,i)perylene	276	15.602	15.602	(1.158)	1498391	20.0000	22

Data File: 1DE23007.D

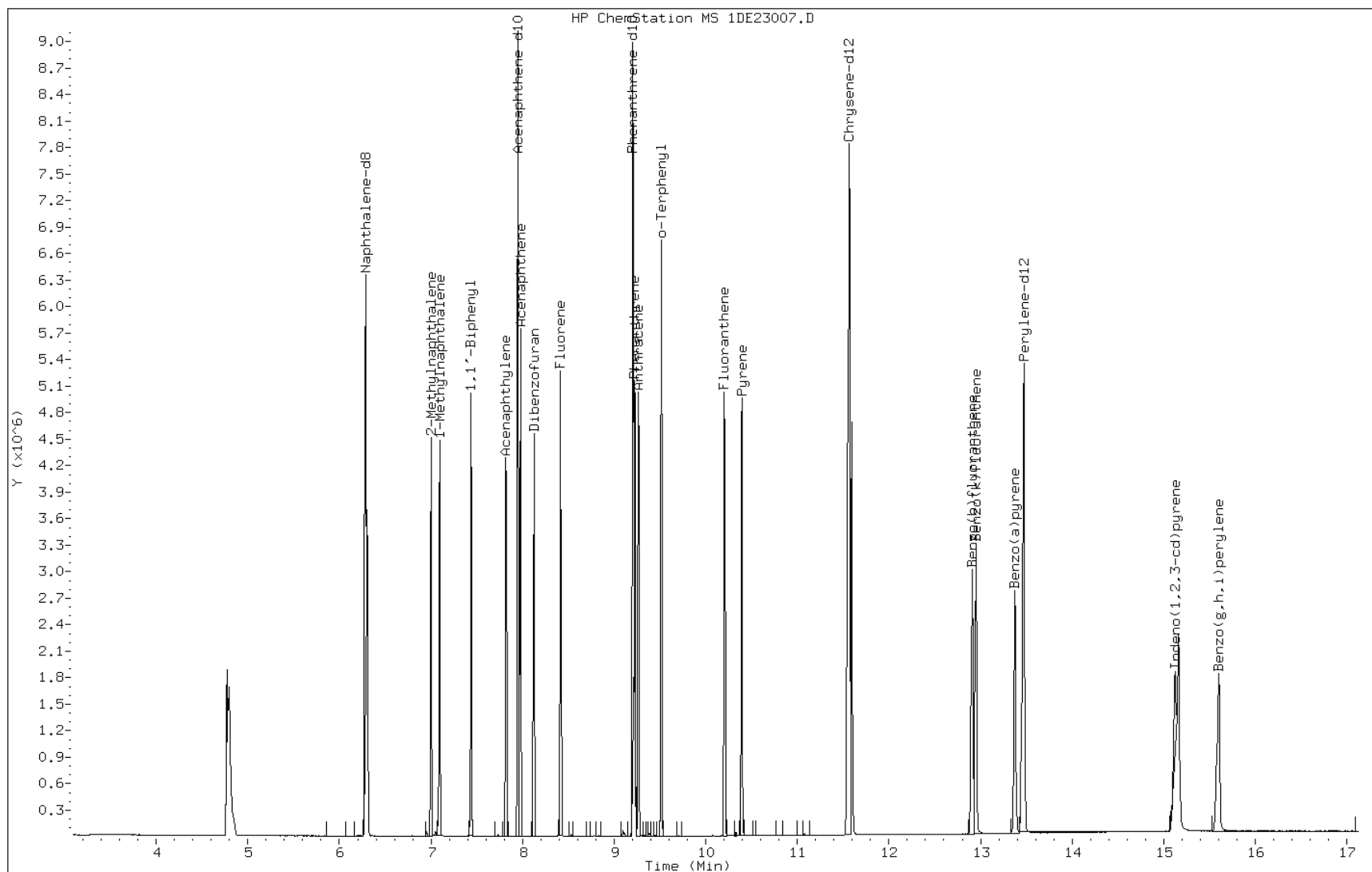
Date: 23-MAY-2013 14:33

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS

Operator: SCC



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Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23008.D
 Lab Smp Id: IC6
 Inj Date : 23-MAY-2013 14:56
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC6
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:33 Cal File: 1DE23007.D
 Als bottle: 8 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.286	6.286	(1.000)	3364617	40.0000	
* 7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1886585	40.0000	
* 11 Phenanthrene-d10	188	9.206	9.206	(1.000)	3193681	40.0000	
\$ 15 o-Terphenyl	230	9.518	9.518	(1.034)	1451630	30.0000	31
* 19 Chrysene-d12	240	11.574	11.574	(1.000)	3127987	40.0000	
* 24 Perylene-d12	264	13.478	13.478	(1.000)	3115576	40.0000	
2 Naphthalene	128	6.304	6.304	(1.003)	2454439	30.0000	30
3 2-Methylnaphthalene	142	7.003	7.003	(1.114)	1611089	30.0000	30
4 1-Methylnaphthalene	142	7.097	7.097	(1.129)	1622169	30.0000	30
5 1,1'-Biphenyl	154	7.438	7.438	(0.936)	1954075	30.0000	35
6 Acenaphthylene	152	7.820	7.820	(0.984)	2528965	30.0000	32
8 Acenaphthene	154	7.978	7.978	(1.004)	1486714	30.0000	30
9 Dibenzofuran	168	8.125	8.125	(1.022)	2095529	30.0000	31
10 Fluorene	166	8.419	8.419	(1.059)	1759028	30.0000	31
12 Phenanthrene	178	9.230	9.230	(1.003)	2572622	30.0000	30
13 Anthracene	178	9.271	9.271	(1.007)	2636003	30.0000	31
16 Fluoranthene	202	10.211	10.211	(1.109)	2822979	30.0000	32
17 Pyrene	202	10.399	10.399	(0.898)	2878307	30.0000	31
18 Benzo(a)anthracene	228	11.557	11.557	(0.998)	2709801	30.0000	29
20 Chrysene	228	11.598	11.598	(1.002)	2431700	30.0000	29
21 Benzo(b)fluoranthene	252	12.914	12.914	(0.958)	2543308	30.0000	32
22 Benzo(k)fluoranthene	252	12.961	12.961	(0.962)	2688538	30.0000	33
23 Benzo(a)pyrene	252	13.384	13.384	(0.993)	2427727	30.0000	32
25 Indeno(1,2,3-cd)pyrene	276	15.135	15.135	(1.123)	2359651	30.0000	29
26 Dibenzo(a,h)anthracene	278	15.176	15.176	(1.126)	2300940	30.0000	31
27 Benzo(g,h,i)perylene	276	15.616	15.616	(1.159)	2296193	30.0000	32

Data File: 1DE23008.D

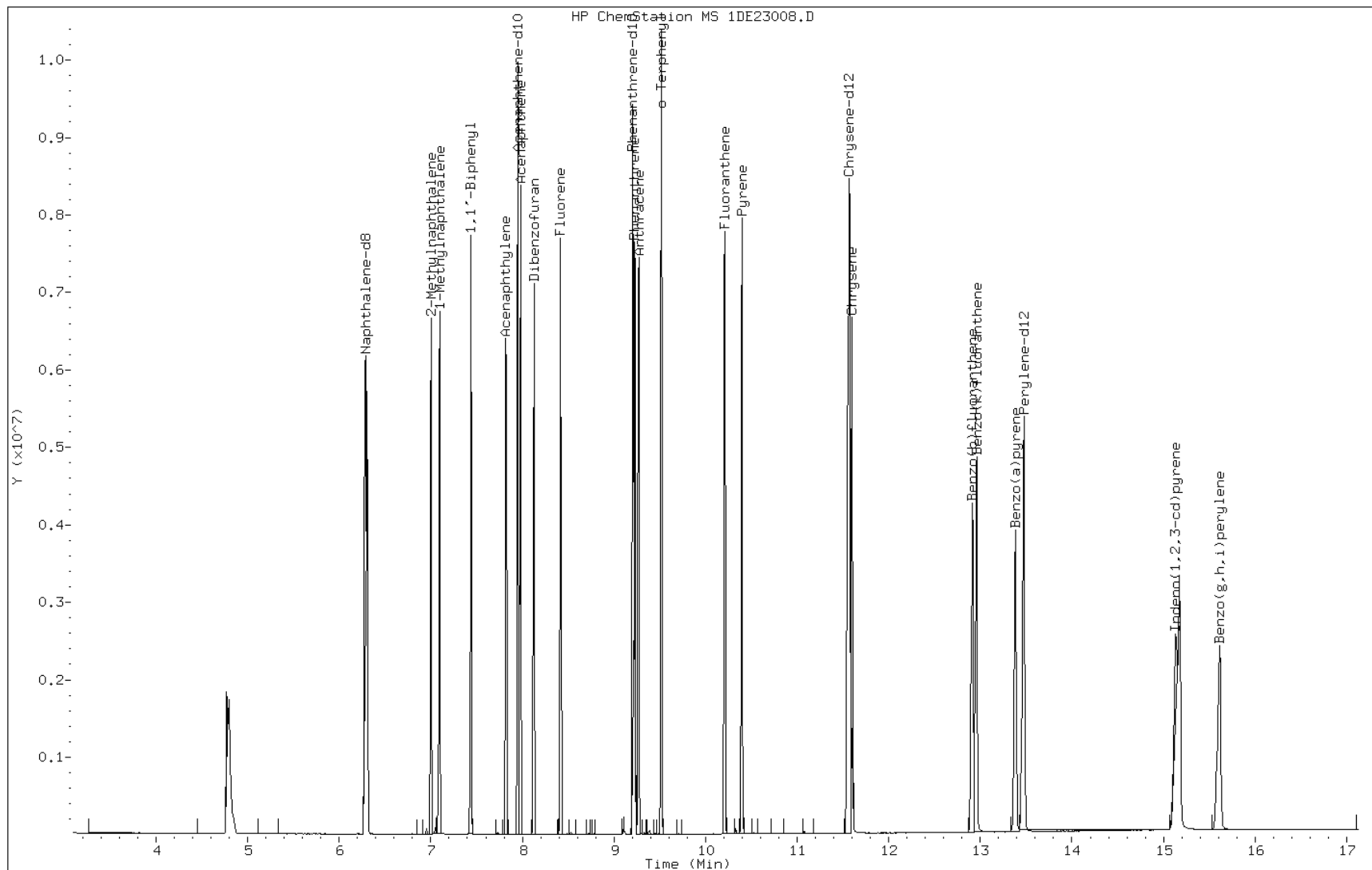
Date: 23-MAY-2013 14:56

Client ID:

Instrument: BSMSD.i

Sample Info: IC6

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23009.D
 Lab Smp Id: IC7
 Inj Date : 23-MAY-2013 15:19
 Operator : SCC
 Smp Info : IC7
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:56 Cal File: 1DE23008.D
 Als bottle: 9 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Compound Sublist: pah.sub

							AMOUNTS	
		QUANT	SIG				CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.283	6.283	(1.000)	3172868	40.0000	
*	7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1767883	40.0000	
*	11 Phenanthrene-d10	188	9.209	9.209	(1.000)	2959275	40.0000	
\$	15 o-Terphenyl	230	9.521	9.521	(1.034)	2294445	50.0000	53(A)
*	19 Chrysene-d12	240	11.577	11.577	(1.000)	2899179	40.0000	
*	24 Perylene-d12	264	13.481	13.481	(1.000)	2888367	40.0000	
	2 Naphthalene	128	6.307	6.307	(1.004)	3854620	50.0000	49
	3 2-Methylnaphthalene	142	7.006	7.006	(1.115)	2505140	50.0000	50(A)
	4 1-Methylnaphthalene	142	7.100	7.100	(1.130)	2515238	50.0000	49
	5 1,1'-Biphenyl	154	7.441	7.441	(0.936)	3029358	50.0000	54(A)
	6 Acenaphthylene	152	7.823	7.823	(0.984)	3904072	50.0000	53(A)
	8 Acenaphthene	154	7.981	7.981	(1.004)	2292684	50.0000	49
	9 Dibenzofuran	168	8.128	8.128	(1.022)	3233580	50.0000	50(A)
	10 Fluorene	166	8.422	8.422	(1.059)	2721626	50.0000	52(A)
	12 Phenanthrene	178	9.227	9.227	(1.002)	3974751	50.0000	50
	13 Anthracene	178	9.268	9.268	(1.006)	4044900	50.0000	52(A)
	16 Fluoranthene	202	10.214	10.214	(1.109)	4360425	50.0000	53(A)
	17 Pyrene	202	10.402	10.402	(0.899)	4398475	50.0000	52(A)
	18 Benzo(a)anthracene	228	11.559	11.559	(0.998)	4292530	50.0000	50
	20 Chrysene	228	11.606	11.606	(1.003)	3781128	50.0000	49
	21 Benzo(b)fluoranthene	252	12.923	12.923	(0.959)	4185749	50.0000	58(A)
	22 Benzo(k)fluoranthene	252	12.970	12.970	(0.962)	4172175	50.0000	55(A)
	23 Benzo(a)pyrene	252	13.393	13.393	(0.993)	3889042	50.0000	54(A)
	25 Indeno(1,2,3-cd)pyrene	276	15.149	15.149	(1.124)	3980252	50.0000	53(A)
	26 Dibenzo(a,h)anthracene	278	15.196	15.196	(1.127)	3746128	50.0000	54(A)
	27 Benzo(g,h,i)perylene	276	15.637	15.637	(1.160)	3714851	50.0000	57(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 1DE23009.D

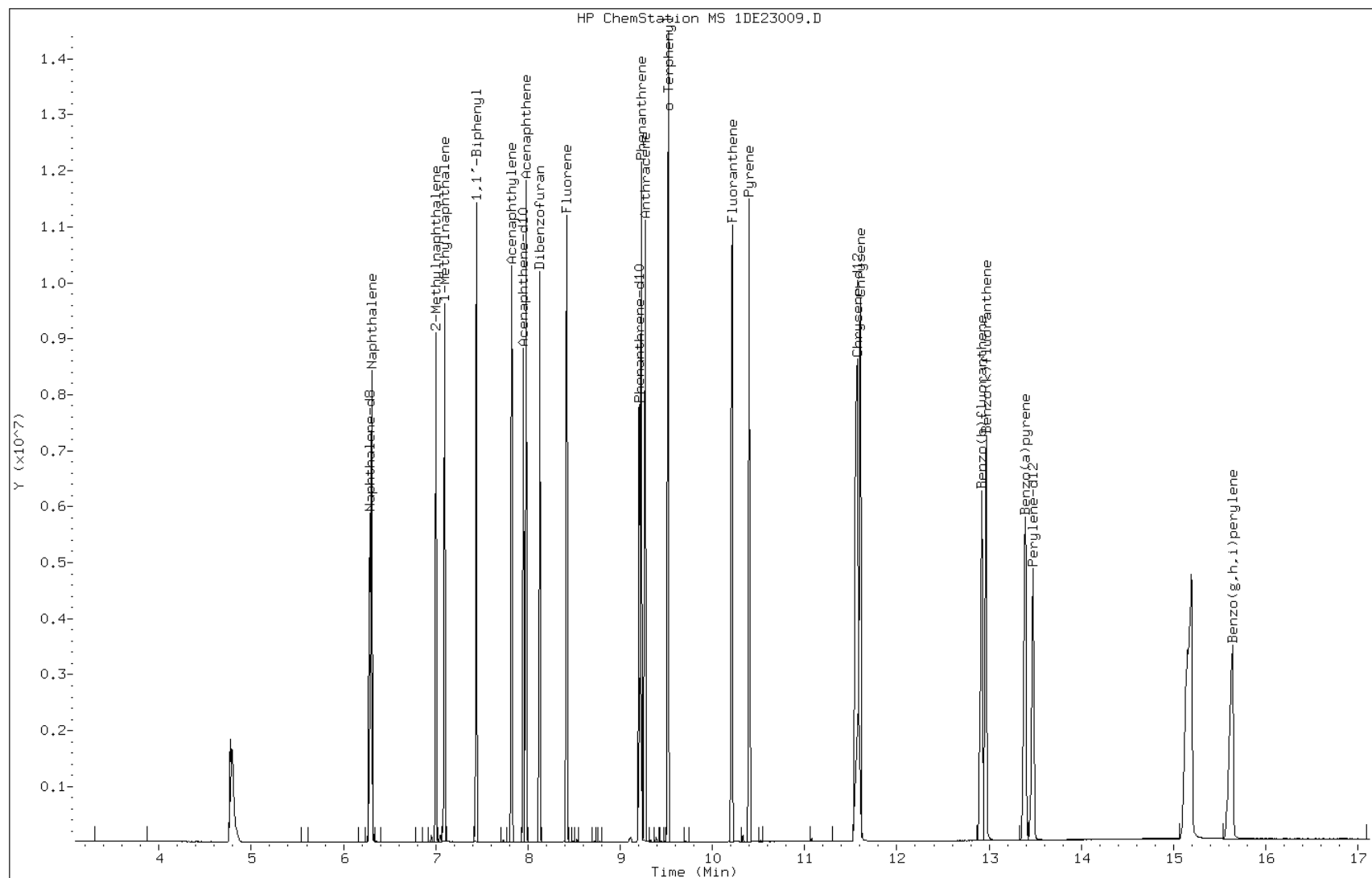
Date: 23-MAY-2013 15:19

Client ID:

Instrument: BSMSD.i

Sample Info: IC7

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Lab Sample ID: ICV 660-137830/10 Calibration Date: 05/23/2013 15:41
 Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/23/2013 15:19
 Lab File ID: 1DE23010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	1.062	0.0000	21500	20000	7.7	35.0
2-Methylnaphthalene	Ave	0.6281	0.7030	0.0000	22400	20000	11.9	35.0
1-Methylnaphthalene	Ave	0.6466	0.6720	0.0000	20800	20000	3.9	35.0
Acenaphthylene	Ave	1.658	1.929	0.0000	23300	20000	16.3	35.0
Acenaphthene	Ave	1.052	1.163	0.0000	22100	20000	10.6	35.0
Dibenzofuran	Ave	1.451	1.520		21000	20000	4.8	
Fluorene	Ave	1.190	1.367	0.0000	23000	20000	14.8	35.0
Phenanthrene	Ave	1.083	1.170	0.0000	21600	20000	8.0	35.0
Anthracene	Ave	1.051	1.180	0.0000	22500	20000	12.3	35.0
Fluoranthene	Ave	1.108	1.253	0.0000	22600	20000	13.0	35.0
Pyrene	Ave	1.171	1.309	0.0000	22400	20000	11.8	35.0
Benzo[a]anthracene	Ave	1.187	1.227	0.0000	20700	20000	3.4	35.0
Chrysene	Ave	1.069	1.150	0.0000	21500	20000	7.6	35.0
Benzo[b]fluoranthene	Ave	1.002	1.129	0.0000	22500	20000	12.7	35.0
Benzo[k]fluoranthene	Ave	1.049	1.202	0.0000	22900	20000	14.5	35.0
Benzo[a]pyrene	Lin2	0.8952	1.064	0.0000	21500	20000	7.7	35.0
Indeno[1,2,3-cd]pyrene	None		1.009	0.0000	19600	20000	-2.2	35.0
Dibenz(a,h)anthracene	Lin2	0.8892	1.023	0.0000	21500	20000	7.4	35.0
Benzo[g,h,i]perylene	Ave	0.9083	1.031	0.0000	22700	20000	13.5	35.0
o-Terphenyl	Ave	0.5860	0.6262	0.0000	21400	20000	6.9	35.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23010.D
 Lab Smp Id: ICV-1558374
 Inj Date : 23-MAY-2013 15:41
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : ICV-1558374
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON - COLUMN	FINAL	
							(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Naphthalene-d8	136	6.281	6.283	(1.000)	3254661	40.0000			
* 7 Acenaphthene-d10	164	7.949	7.952	(1.000)	1828493	40.0000			
* 11 Phenanthrene-d10	188	9.207	9.209	(1.000)	3056039	40.0000			
\$ 15 o-Terphenyl	230	9.518	9.521	(1.034)	956788	21.3703		21	
* 19 Chrysene-d12	240	11.569	11.577	(1.000)	2992199	40.0000			
* 24 Perylene-d12	264	13.472	13.481	(1.000)	3010942	40.0000			
2 Naphthalene	128	6.304	6.307	(1.004)	1728141	21.5314		22	
3 2-Methylnaphthalene	142	7.003	7.006	(1.115)	1144034	22.3865		22	
4 1-Methylnaphthalene	142	7.092	7.100	(1.129)	1093612	20.7868		21	
5 1,1'-Biphenyl	154	7.438	7.441	(0.936)	1286663	20.8277		21	
6 Acenaphthylene	152	7.820	7.823	(0.984)	1763872	23.2664		23	
8 Acenaphthene	154	7.979	7.981	(1.004)	1063560	22.1147		22	
9 Dibenzofuran	168	8.126	8.128	(1.022)	1389403	20.9522		21	
10 Fluorene	166	8.419	8.422	(1.059)	1249621	22.9645		23	
12 Phenanthrene	178	9.224	9.227	(1.002)	1787673	21.5987		22	
13 Anthracene	178	9.266	9.268	(1.006)	1803785	22.4610		22	
16 Fluoranthene	202	10.206	10.214	(1.108)	1914304	22.6079		23	

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
17 Pyrene	202	10.394	10.402	(0.898)	1958244	22.3533	22
18 Benzo(a)anthracene	228	11.551	11.559	(0.998)	1835809	20.6731	21
20 Chrysene	228	11.598	11.606	(1.003)	1720590	21.5169	22
21 Benzo(b)fluoranthene	252	12.908	12.923	(0.958)	1699838	22.5351	22
22 Benzo(k)fluoranthene	252	12.949	12.970	(0.961)	1809098	22.9026	23
23 Benzo(a)pyrene	252	13.378	13.393	(0.993)	1601318	21.5420	22
25 Indeno(1,2,3-cd)pyrene	276	15.123	15.149	(1.123)	1519348	19.5614	20
26 Dibenzo(a,h)anthracene	278	15.165	15.196	(1.126)	1540208	21.4753	21
27 Benzo(g,h,i)perylene	276	15.605	15.637	(1.158)	1552255	22.7045	23

Data File: 1DE23010.D

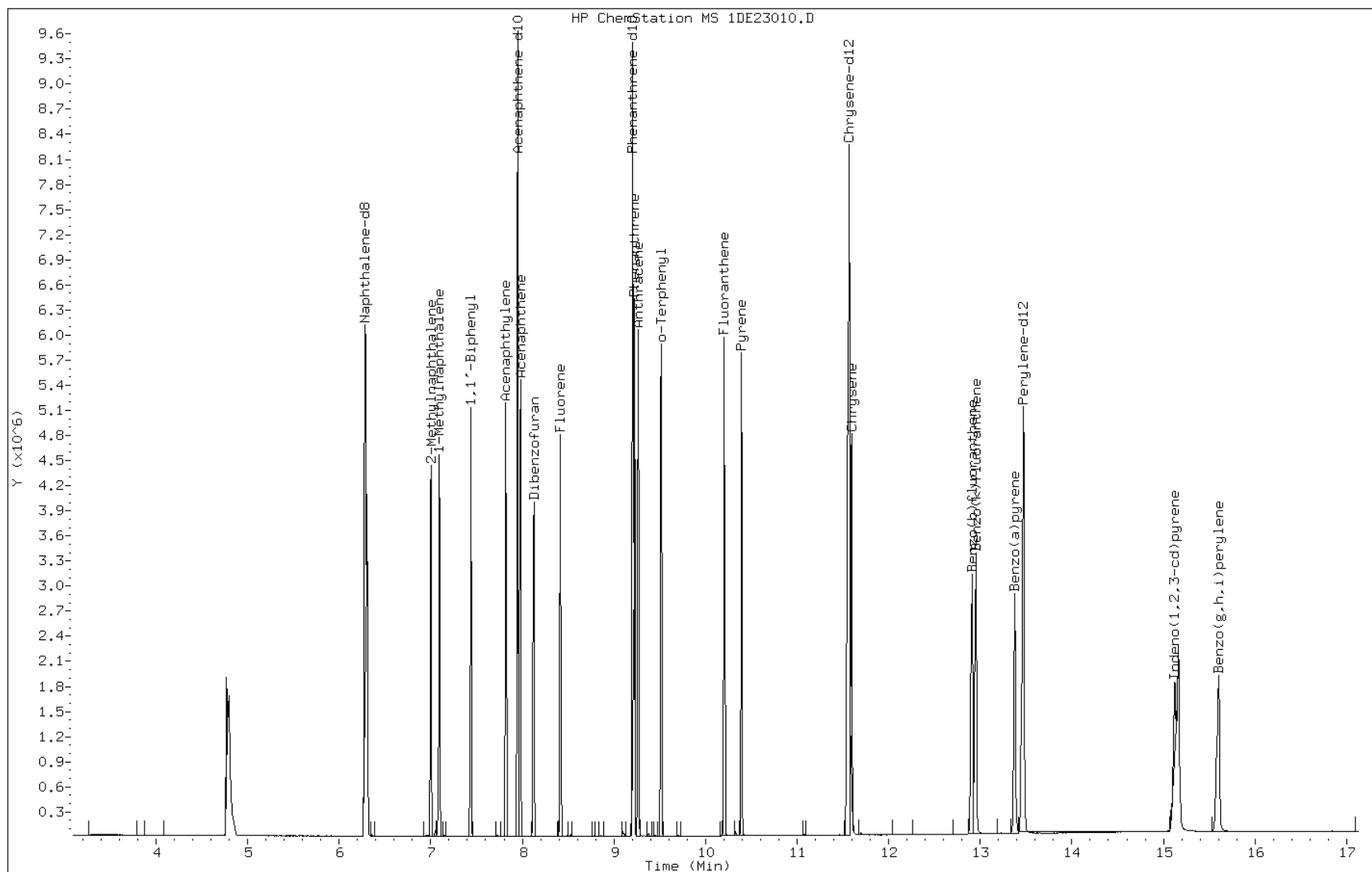
Date: 23-MAY-2013 15:41

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1558374

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Lab Sample ID: CCVIS 660-138205/4 Calibration Date: 06/07/2013 12:17
 Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/23/2013 15:19
 Lab File ID: 1DF07004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	0.9888	0.0000	20000	20000	0.2	20.0
2-Methylnaphthalene	Ave	0.6281	0.6432	0.0000	20500	20000	2.4	20.0
1-Methylnaphthalene	Ave	0.6466	0.6333	0.0000	19600	20000	-2.1	20.0
Acenaphthylene	Ave	1.658	1.830	0.0000	22100	20000	10.4	20.0
Acenaphthene	Ave	1.052	1.067	0.0000	20300	20000	1.4	20.0
Dibenzofuran	Ave	1.451	1.548		21300	20000	6.7	
Fluorene	Ave	1.190	1.274	0.0000	21400	20000	7.0	20.0
Phenanthrene	Ave	1.083	1.098	0.0000	20300	20000	1.3	20.0
Anthracene	Ave	1.051	1.126	0.0000	21400	20000	7.1	20.0
Fluoranthene	Ave	1.108	1.159	0.0000	20900	20000	4.5	20.0
Pyrene	Ave	1.171	1.236	0.0000	21100	20000	5.6	20.0
Benzo[a]anthracene	Ave	1.187	1.147	0.0000	19300	20000	-3.4	20.0
Chrysene	Ave	1.069	1.019	0.0000	19100	20000	-4.7	20.0
Benzo[b]fluoranthene	Ave	1.002	1.093	0.0000	21800	20000	9.0	20.0
Benzo[k]fluoranthene	Ave	1.049	1.126	0.0000	21500	20000	7.3	20.0
Benzo[a]pyrene	Lin2	0.8952	1.036	0.0000	21000	20000	4.9	20.0
Indeno[1,2,3-cd]pyrene	None		1.001	0.0000	19400	20000	-2.9	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	0.9850	0.0000	20700	20000	3.4	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.9558	0.0000	21000	20000	5.2	20.0
o-Terphenyl	Ave	0.5860	0.6034	0.0000	20600	20000	3.0	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07004.D
Lab Smp Id: CCVIS-1559459
Inj Date : 07-JUN-2013 12:17
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\dFASTPAHi.m
Meth Date : 07-Jun-2013 12:37 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.266	6.266 (1.000)	3268181	40.0000		
* 7 Acenaphthene-d10	164	7.935	7.935 (1.000)	1761876	40.0000		
* 11 Phenanthrene-d10	188	9.192	9.192 (1.000)	2916630	40.0000		
\$ 15 o-Terphenyl	230	9.498	9.498 (1.033)	879948	20.0000		20
* 19 Chrysene-d12	240	11.554	11.554 (1.000)	2760869	40.0000		
* 24 Perylene-d12	264	13.458	13.458 (1.000)	2646512	40.0000		
2 Naphthalene	128	6.284	6.284 (1.003)	1615836	20.0000		20
3 2-Methylnaphthalene	142	6.983	6.983 (1.114)	1050980	20.0000		20
4 1-Methylnaphthalene	142	7.077	7.077 (1.129)	1034786	20.0000		20
5 1,1'-Biphenyl	154	7.418	7.418 (0.935)	1281085	20.0000		22
6 Acenaphthylene	152	7.805	7.805 (0.984)	1612307	20.0000		22
8 Acenaphthene	154	7.958	7.958 (1.003)	939714	20.0000		20
9 Dibenzofuran	168	8.111	8.111 (1.022)	1363889	20.0000		21
10 Fluorene	166	8.399	8.399 (1.058)	1122557	20.0000		21
12 Phenanthrene	178	9.210	9.210 (1.002)	1600988	20.0000		20
13 Anthracene	178	9.251	9.251 (1.006)	1641583	20.0000		21
16 Fluoranthene	202	10.191	10.191 (1.109)	1689467	20.0000		21
17 Pyrene	202	10.379	10.379 (0.898)	1706847	20.0000		21
18 Benzo(a)anthracene	228	11.536	11.536 (0.998)	1583333	20.0000		19
20 Chrysene	228	11.577	11.577 (1.002)	1406902	20.0000		19
21 Benzo(b)fluoranthene	252	12.894	12.894 (0.958)	1445899	20.0000		22
22 Benzo(k)fluoranthene	252	12.935	12.935 (0.961)	1489728	20.0000		21
23 Benzo(a)pyrene	252	13.358	13.358 (0.993)	1370558	20.0000		21
25 Indeno(1,2,3-cd)pyrene	276	15.103	15.103 (1.122)	1325081	20.0000		19(H)
26 Dibenzo(a,h)anthracene	278	15.144	15.144 (1.125)	1303367	20.0000		21
27 Benzo(g,h,i)perylene	276	15.585	15.585 (1.158)	1264720	20.0000		21

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DF07004.D

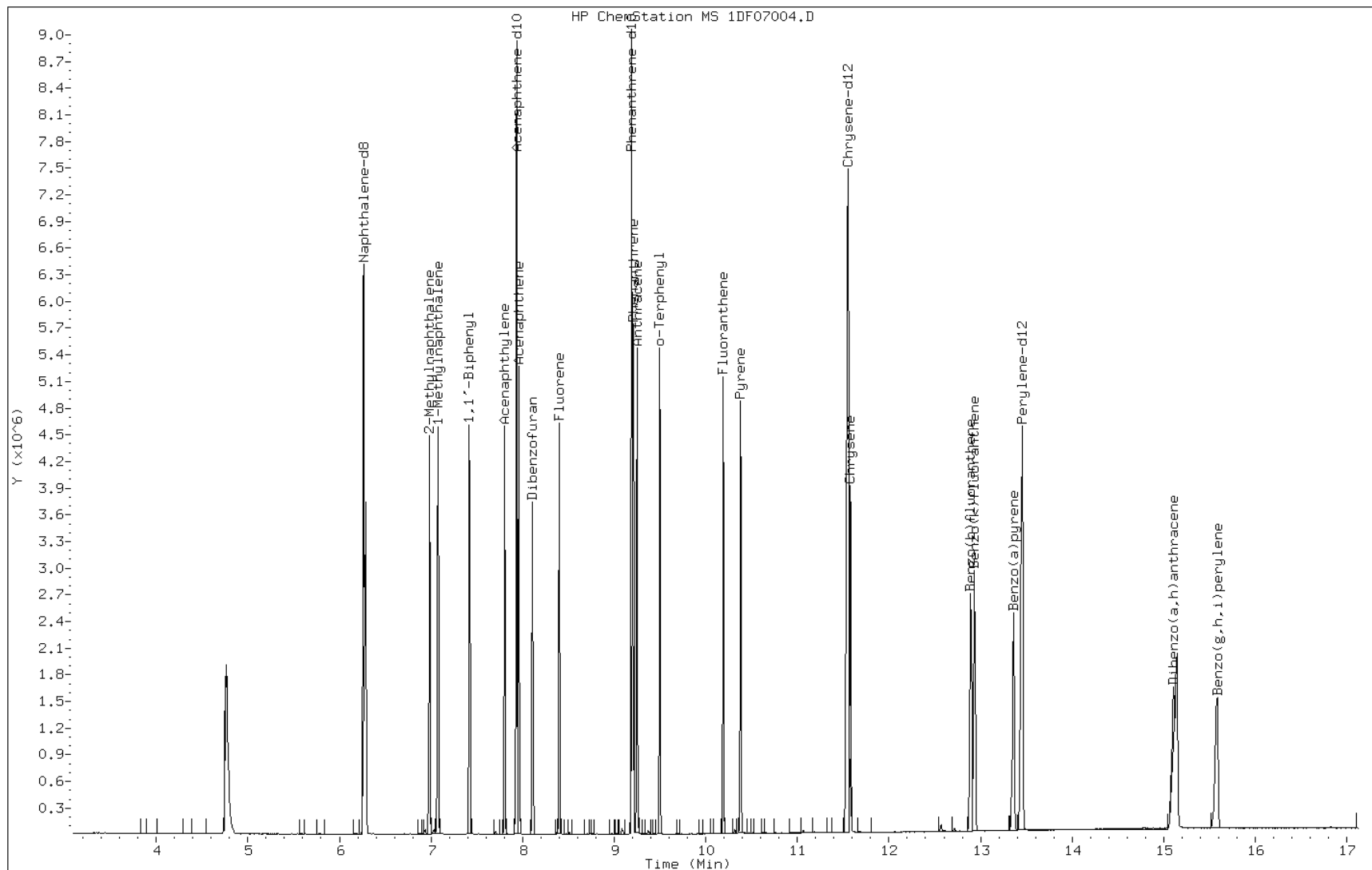
Date: 07-JUN-2013 12:17

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1559459

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90855-2
 SDG No.: 68090855-2
 Lab Sample ID: CCVIS 660-138352/3 Calibration Date: 06/11/2013 12:00
 Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/23/2013 15:19
 Lab File ID: 1DF11003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	0.9670	0.0000	19600	20000	-2.0	20.0
2-Methylnaphthalene	Ave	0.6281	0.6475	0.0000	20600	20000	3.1	20.0
1-Methylnaphthalene	Ave	0.6466	0.6335	0.0000	19600	20000	-2.0	20.0
Acenaphthylene	Ave	1.658	1.784	0.0000	21500	20000	7.6	20.0
Acenaphthene	Ave	1.052	1.037	0.0000	19700	20000	-1.5	20.0
Fluorene	Ave	1.190	1.264	0.0000	21200	20000	6.2	20.0
Phenanthrene	Ave	1.083	1.074	0.0000	19800	20000	-0.8	20.0
Anthracene	Ave	1.051	1.069	0.0000	20300	20000	1.7	20.0
Fluoranthene	Ave	1.108	1.137	0.0000	20500	20000	2.6	20.0
Pyrene	Ave	1.171	1.184	0.0000	20200	20000	1.1	20.0
Benzo[a]anthracene	Ave	1.187	1.121	0.0000	18900	20000	-5.6	20.0
Chrysene	Ave	1.069	0.9450	0.0000	17700	20000	-11.6	20.0
Benzo[b]fluoranthene	Ave	1.002	1.065	0.0000	21300	20000	6.3	20.0
Benzo[k]fluoranthene	Ave	1.049	1.053	0.0000	20100	20000	0.4	20.0
Benzo[a]pyrene	Lin2	0.8952	0.9841	0.0000	19900	20000	-0.3	20.0
Indeno[1,2,3-cd]pyrene	None		0.9423	0.0000	18300	20000	-8.6	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	0.9034	0.0000	19000	20000	-5.1	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.8461	0.0000	18600	20000	-6.8	20.0
o-Terphenyl	Ave	0.5860	0.6179	0.0000	21100	20000	5.4	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11003.D
 Lab Smp Id: CCVIS-1559459
 Inj Date : 11-JUN-2013 12:00
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : CCVIS-1559459
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
 Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.260	6.260	(1.000)	3968569	40.0000	
* 7 Acenaphthene-d10	164	7.929	7.929	(1.000)	2227186	40.0000	
* 11 Phenanthrene-d10	188	9.192	9.192	(1.000)	3833653	40.0000	
\$ 15 o-Terphenyl	230	9.497	9.497	(1.033)	1184460	20.0000	21
* 19 Chrysene-d12	240	11.560	11.560	(1.000)	3693716	40.0000	
* 24 Perylene-d12	264	13.469	13.469	(1.000)	3237119	40.0000	
2 Naphthalene	128	6.284	6.284	(1.004)	1918706	20.0000	20
3 2-Methylnaphthalene	142	6.977	6.977	(1.114)	1284782	20.0000	21
4 1-Methylnaphthalene	142	7.071	7.071	(1.129)	1257117	20.0000	20
6 Acenaphthylene	152	7.799	7.799	(0.984)	1986522	20.0000	22
8 Acenaphthene	154	7.958	7.958	(1.004)	1154577	20.0000	20
10 Fluorene	166	8.399	8.399	(1.059)	1407317	20.0000	21
12 Phenanthrene	178	9.210	9.210	(1.002)	2059017	20.0000	20
13 Anthracene	178	9.251	9.251	(1.006)	2048559	20.0000	20
16 Fluoranthene	202	10.191	10.191	(1.109)	2179385	20.0000	20
17 Pyrene	202	10.379	10.379	(0.898)	2187090	20.0000	20
18 Benzo(a)anthracene	228	11.536	11.536	(0.998)	2069727	20.0000	19
20 Chrysene	228	11.583	11.583	(1.002)	1745196	20.0000	18
21 Benzo(b)fluoranthene	252	12.899	12.899	(0.958)	1723940	20.0000	21
22 Benzo(k)fluoranthene	252	12.940	12.940	(0.961)	1704631	20.0000	20
23 Benzo(a)pyrene	252	13.369	13.369	(0.993)	1592797	20.0000	20
25 Indeno(1,2,3-cd)pyrene	276	15.120	15.120	(1.123)	1525088	20.0000	18
26 Dibenzo(a,h)anthracene	278	15.156	15.156	(1.125)	1462145	20.0000	19
27 Benzo(g,h,i)perylene	276	15.602	15.602	(1.158)	1369532	20.0000	19

Data File: 1DF11003.D

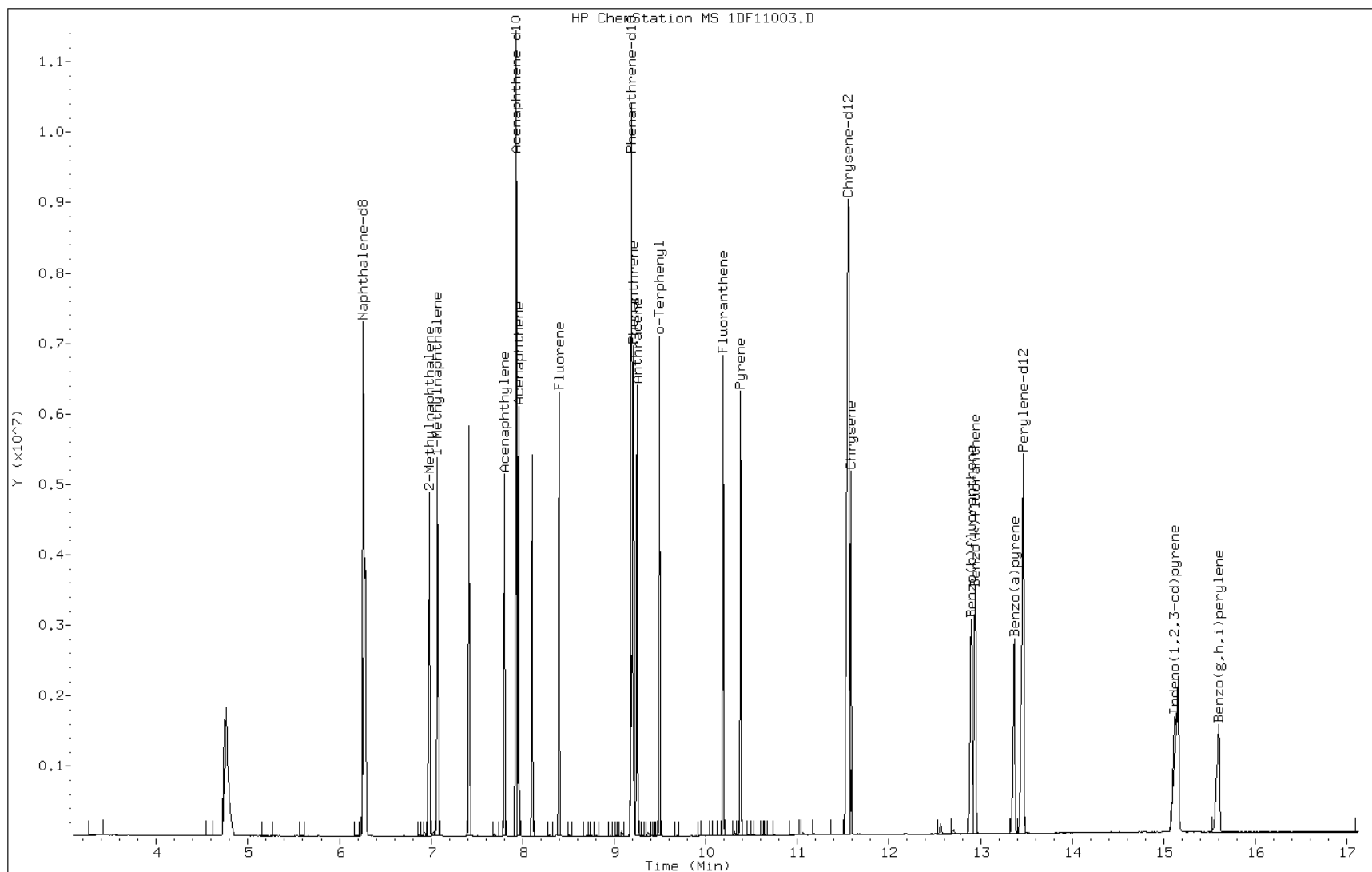
Date: 11-JUN-2013 12:00

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1559459

Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 23-MAY-2013 11:20
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.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				
8.587	8.532	0.055	198	121784			50.00-	0.00	100.00
8.587	8.532	0.055	51	67440			10.00-	80.00	55.38
8.587	8.532	0.055	68	0	0.0	0.0	0.00-	2.00	0.00
8.587	8.532	0.055	69	65104			0.00-	0.00	53.46
8.587	8.532	0.055	70	565			0.00-	2.00	0.87
8.587	8.532	0.055	127	68776			10.00-	80.00	56.47
8.587	8.532	0.055	197	0	0.0	0.0	0.00-	2.00	0.00
8.587	8.532	0.055	442	65752			50.00-	0.00	53.99
8.587	8.532	0.055	199	8068			5.00-	9.00	6.62
8.587	8.532	0.055	275	31712			10.00-	60.00	26.04
8.587	8.532	0.055	365	4846			1.00-	0.00	3.98
8.587	8.532	0.055	441	9492			0.01-	99.99	78.47
8.587	8.532	0.055	443	12096			15.00-	24.00	18.40

Data File: 1DE23002.D

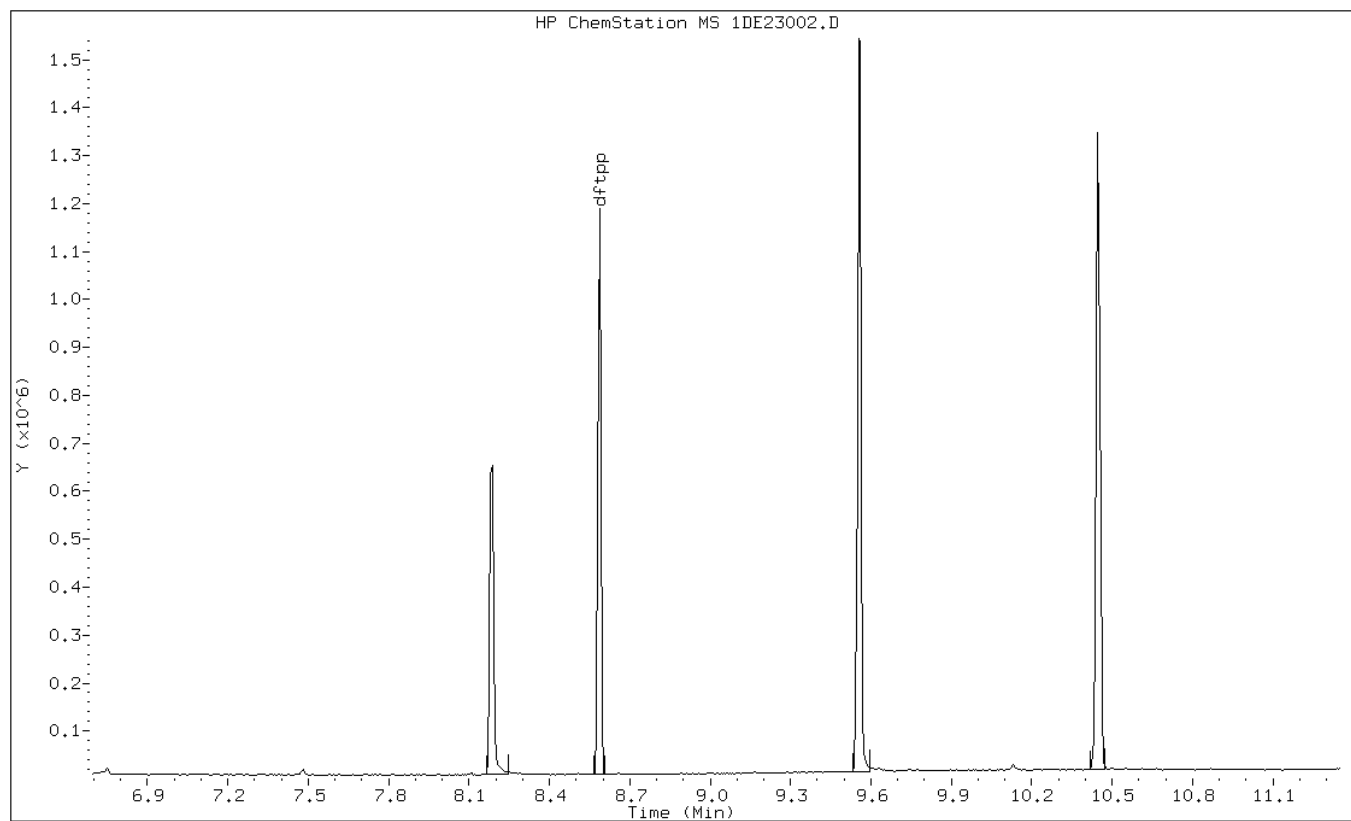
Date: 23-MAY-2013 11:20

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

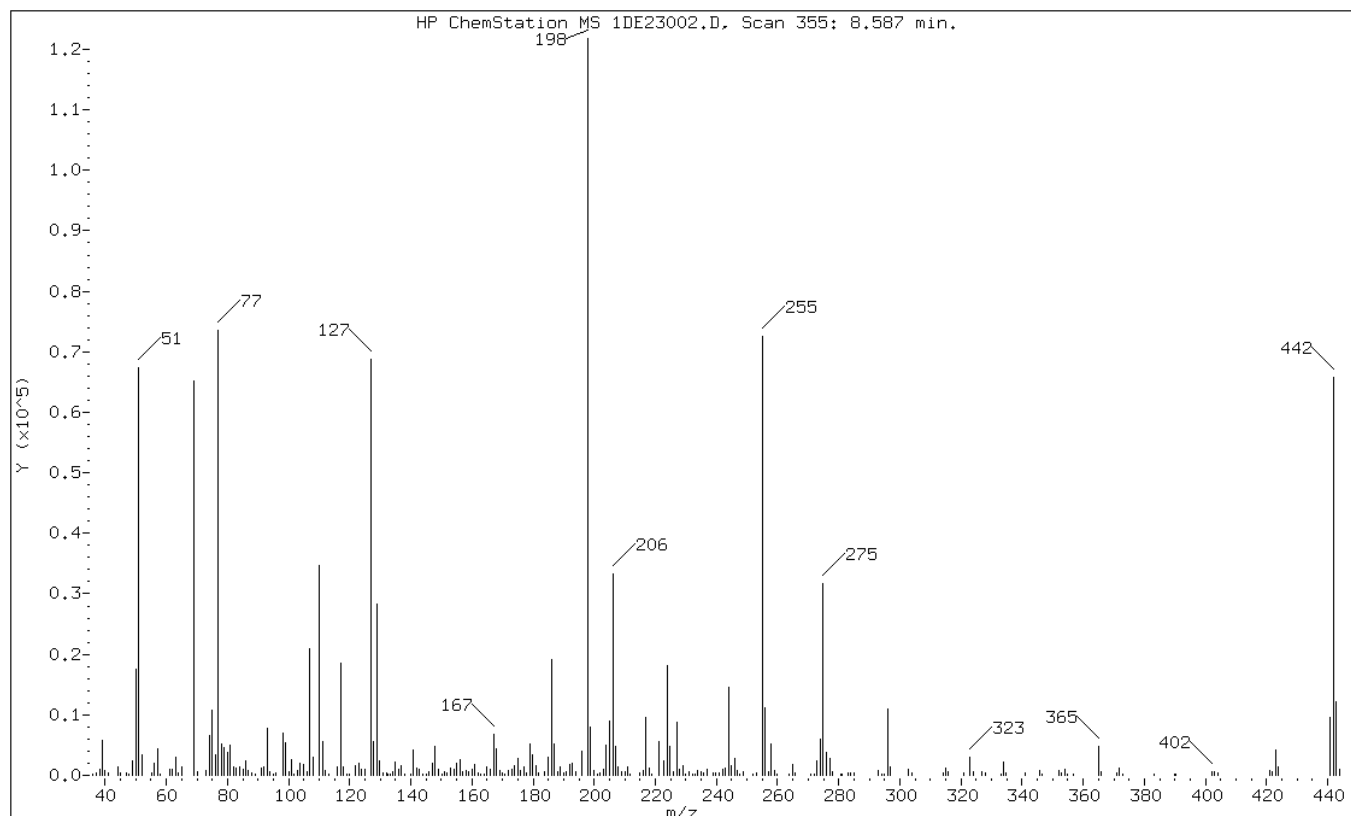
Client ID: DFTPP

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	55.38
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	53.46
70	Less than 2.00% of mass 69	0.46 (0.87)
127	10.00 - 80.00% of mass 198	56.47
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	53.99
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	26.04
365	Greater than 1.00% of mass 198	3.98
441	Present, but less than mass 443	7.79
443	15.00 - 24.00% of mass 442	9.93 (18.40)

Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D052313_pahIC.b\1DE23002.D
Spectrum: HP ChemStation MS 1DE23002.D, Scan 355: 8.587 min.
Location of Maximum: 197.90
Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	249	117.90	1357	186.00	19144	263.70	171
37.10	370	118.90	263	186.90	5217	264.90	1873
38.10	973	120.00	223	187.90	612	265.80	383
39.00	5723	121.90	1665	188.90	1329	271.00	186
40.00	747	122.90	2073	189.90	307	271.90	293
41.00	364	124.00	1000	191.00	596	272.90	2302
44.00	1452	125.00	929	191.90	1822	273.90	5948
45.10	334	127.00	68776	192.90	2065	274.90	31712
46.90	480	127.90	5565	194.00	565	275.90	3785
47.80	238	128.90	28208	195.90	3944	277.00	2800
49.00	2358	129.90	2448	197.90	121784	277.90	659
50.00	17600	131.10	380	198.90	8068	280.80	191
51.00	67440	132.00	342	199.90	824	281.10	192
52.00	3328	132.60	152	201.10	276	283.00	400
55.10	409	133.10	215	201.70	467	283.90	307
56.00	2025	133.90	654	203.00	968	284.90	387
57.00	4381	134.90	2109	203.90	5020	293.00	825
58.00	217	136.00	922	205.00	9032	294.00	151
61.00	1013	136.90	1647	206.00	33240	294.90	243
62.00	913	138.00	265	207.00	4794	295.90	11046
63.00	2951	139.90	239	207.90	1427	296.90	1346
64.00	397	140.90	4179	208.80	681	302.90	926
65.00	1343	141.90	1118	210.00	552	304.00	330
69.00	65104	142.90	1031	210.90	1454	314.10	375
70.00	565	144.00	240	211.80	223	314.90	1098
73.00	790	145.10	221	214.90	414	315.90	571
74.00	6651	145.90	520	216.00	838	320.90	352
75.00	10782	147.00	2016	216.90	9622	323.00	2997
76.00	3422	148.00	4753	217.90	1129	323.90	666
77.00	73512	148.90	1096	218.80	154	326.80	600
78.00	5136	150.10	273	221.00	5672	328.00	304
79.00	4645	150.90	581	222.90	2421	333.00	236
80.00	3799	151.70	317	224.00	18232	333.90	2273
81.00	4928	152.90	1222	224.90	4829	334.90	490
82.00	1382	154.00	956	226.00	615	341.00	350
82.90	1163	155.00	1904	226.90	8729	345.80	800
83.90	1444	156.00	2641	227.90	1012	346.70	161
85.00	909	157.00	572	228.90	1680	351.90	800
85.90	2381	158.00	809	229.80	268	352.80	433
86.90	728	159.00	666	230.90	693	354.00	1029

87.90	331	160.00	933	232.10	157	354.90	170
89.00	285	160.90	1756	233.00	179	356.90	162
91.00	1150	162.00	462	233.90	756	365.00	4846
91.90	1474	162.80	203	235.00	558	365.90	560
92.90	7822	164.10	158	235.90	487	371.10	322
93.90	567	164.90	1406	236.90	950	371.90	1258
94.90	179	166.00	940	238.90	325	372.80	192
96.00	396	167.00	6772	239.80	300	373.10	180
98.00	6996	167.90	4389	241.00	416	383.10	221
98.90	5360	169.00	764	242.00	904	390.00	192
100.00	551	170.00	342	242.90	1190	390.30	165
100.90	2607	170.80	216	244.00	14621	402.00	625
101.90	286	171.90	754	244.90	1630	402.80	604
102.90	815	172.90	903	245.90	2736	403.90	416
103.90	1983	174.00	1510	246.90	832	420.90	877
105.00	1804	175.00	2756	247.70	160	422.00	504
106.00	509	175.90	753	248.90	508	422.90	4151
107.00	20912	177.00	1365	252.10	158	423.90	1358
107.90	2991	177.90	464	253.00	393	440.90	9492
109.90	34672	178.90	5168	254.90	72544	441.90	65752
111.00	5529	179.90	3472	255.90	11148	442.90	12096
111.90	765	180.90	1571	257.00	697	443.90	1083
113.00	248	181.90	303	257.90	5230		
116.00	1418	183.90	514	258.90	884		
117.00	18560	185.00	2991	260.00	157		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 07-JUN-2013 11:23
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1562005
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\d-dftpp198.m
 Meth Date : 08-Jan-2013 16:28 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				
8.564	8.532	0.032	198	20616			50.00-	0.00	100.00
8.564	8.532	0.032	51	6933			10.00-	80.00	33.63
8.564	8.532	0.032	68	0	0.0	0.0	0.00-	2.00	0.00
8.564	8.532	0.032	69	6589			0.00-	0.00	31.96
8.564	8.532	0.032	70	0	0.0	0.0	0.00-	2.00	0.00
8.564	8.532	0.032	127	9298			10.00-	80.00	45.10
8.564	8.532	0.032	197	0	0.0	0.0	0.00-	2.00	0.00
8.564	8.532	0.032	442	18696			50.00-	0.00	90.69
8.564	8.532	0.032	199	1534			5.00-	9.00	7.44
8.564	8.532	0.032	275	5896			10.00-	60.00	28.60
8.564	8.532	0.032	365	1013			1.00-	0.00	4.91
8.564	8.532	0.032	441	2725			0.01-	99.99	68.42
8.564	8.532	0.032	443	3983			15.00-	24.00	21.30

Data File: 1DF07002.D

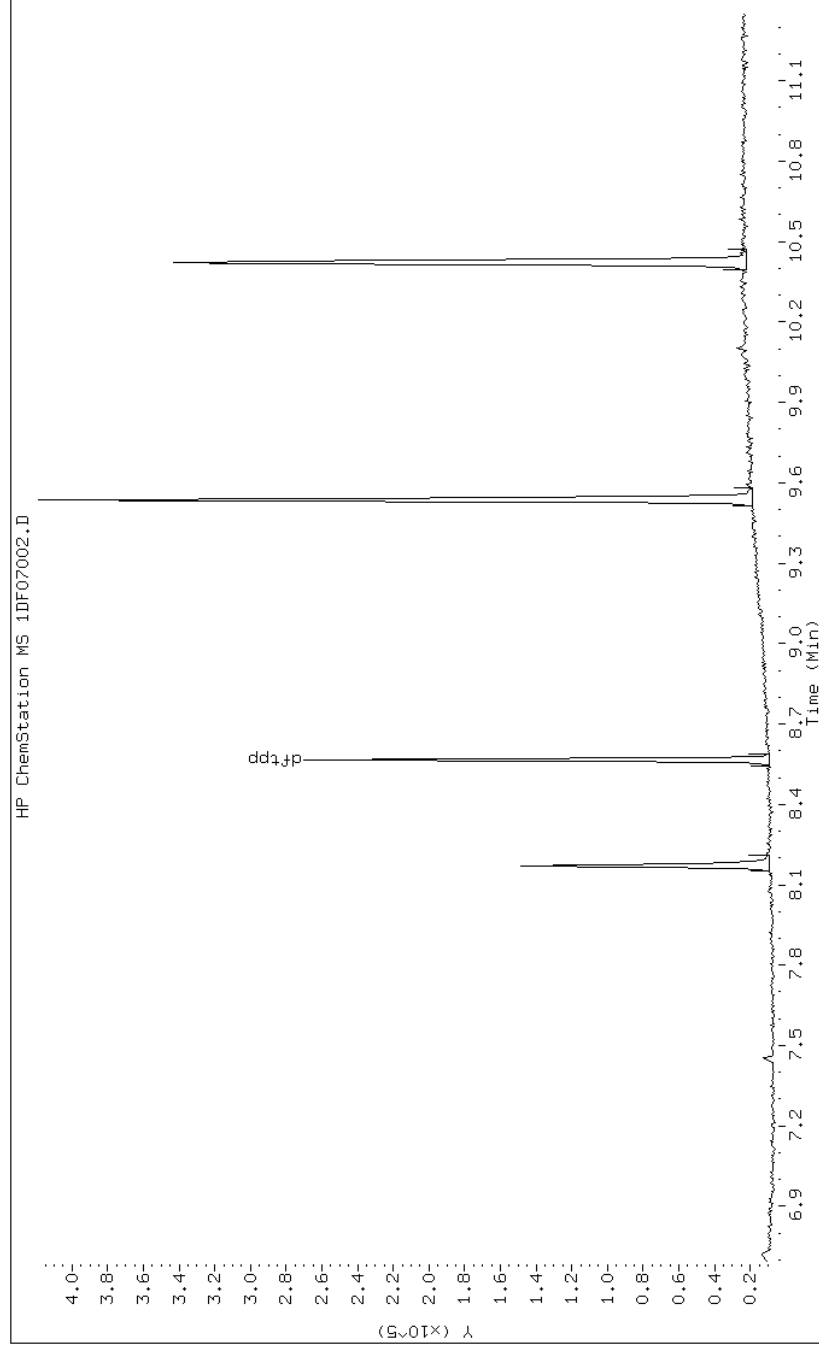
Date: 07-JUN-2013 11:23

Client ID: DFTPP

Sample Info: DFTPP-1562005

Instrument: BSMDS.i

Operator: SCC



Data File: 1DF07002.D

Date: 07-JUN-2013 11:23

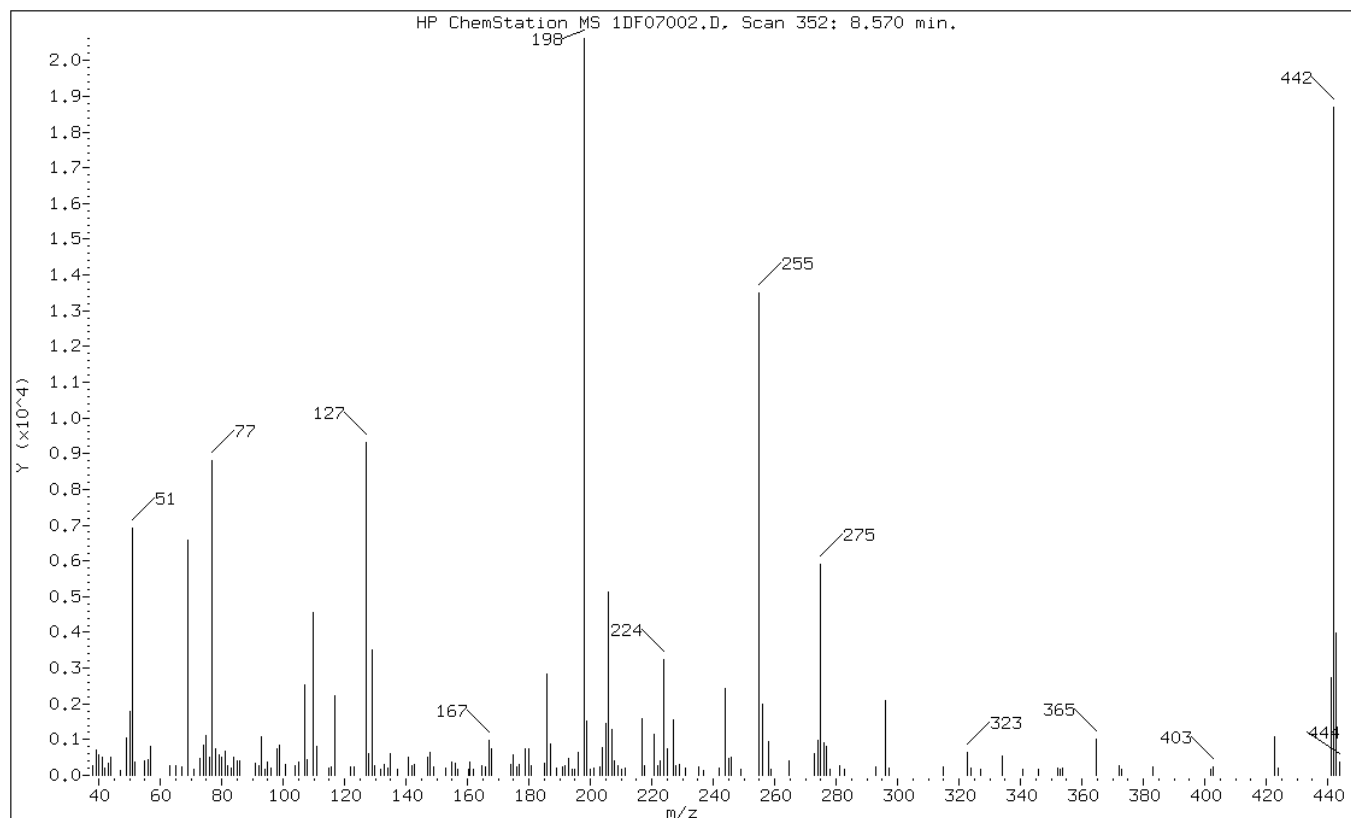
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1562005

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	33.63
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	31.96
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	45.10
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	90.69
199	5.00 - 9.00% of mass 198	7.44
275	10.00 - 60.00% of mass 198	28.60
365	Greater than 1.00% of mass 198	4.91
441	Present, but less than mass 443	13.22
443	15.00 - 24.00% of mass 442	19.32 (21.30)

Data File: 1DF07002.D

Date: 07-JUN-2013 11:23

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1562005

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07002.D
Spectrum: HP ChemStation MS 1DF07002.D, Scan 352: 8.570 min.
Location of Maximum: 197.90
Number of points: 166

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	268	100.90	300	178.90	751	246.00	522
39.00	718	104.00	254	179.80	756	249.00	177
40.00	572	105.00	362	180.90	260	254.90	13500
41.00	490	106.90	2532	184.90	351	255.90	2002
42.10	206	107.80	448	186.00	2827	258.00	954
43.00	338	109.90	4571	186.90	881	258.90	185
44.00	506	110.90	811	188.90	213	264.80	421
47.00	151	115.00	195	191.00	227	272.90	620
49.00	1031	115.80	232	191.90	274	274.00	993
50.10	1777	116.90	2239	192.90	467	274.90	5896
51.00	6933	121.90	252	194.00	173	275.90	909
51.90	379	123.00	235	194.90	163	276.90	820
55.00	412	126.90	9298	196.00	629	278.00	174
56.00	422	127.90	609	197.90	20616	281.00	274
56.90	812	129.00	3498	198.90	1534	282.90	179
63.00	258	129.90	265	199.90	158	292.90	221
65.00	266	131.90	185	201.30	209	295.90	2086
67.00	237	133.00	300	203.10	222	297.10	188
68.90	6589	134.10	206	203.90	774	314.90	233
71.00	170	135.00	597	205.00	1441	322.90	636
72.90	479	137.10	163	206.00	5139	324.00	199
73.90	843	140.90	496	207.00	1296	326.90	155
75.00	1100	141.80	261	208.00	403	333.90	550
75.90	499	142.90	301	209.00	269	340.80	167
77.00	8820	146.90	516	210.00	164	345.80	175
77.90	727	148.00	649	211.20	218	352.10	213
79.00	558	149.00	223	216.90	1594	352.80	182
80.00	519	153.00	212	217.80	277	353.80	219
81.00	685	155.00	373	220.90	1132	364.80	1013
82.00	267	156.10	330	221.90	281	372.00	258
83.10	215	156.90	159	222.90	411	372.90	160
83.90	519	160.20	183	224.00	3229	383.00	234
85.00	390	160.90	383	224.90	747	402.00	179
85.80	403	161.90	174	226.90	1538	402.90	238
90.90	322	164.80	273	228.00	278	422.90	1078
92.00	261	165.90	239	228.90	300	423.90	204
93.00	1082	166.90	970	230.90	209	441.00	2725
93.90	156	167.90	744	235.10	233	441.90	18696
94.90	364	173.90	301	236.90	150	442.90	3983
95.90	199	175.00	559	241.90	194	443.90	362

	97.90	753		175.90	251		244.00	2422			
	98.90	830		176.90	292		245.00	463			
+	-----	+	-----	+	-----	+	-----	+	-----	+	+

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 11-JUN-2013 11:44
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1546763
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.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									
RT	EXP RT	DLT RT	MASS	RESPONSE	ON-COL		TARGET	RANGE	RATIO
					(ug/L)	FINAL (ug/L)			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
8.557	8.532	0.025	198	80288			50.00-	0.00	100.00
8.557	8.532	0.025	51	28336			10.00-	80.00	35.29
8.557	8.532	0.025	68	0	0.0	0.0	0.00-	2.00	0.00
8.557	8.532	0.025	69	30072			0.00-	0.00	37.46
8.557	8.532	0.025	70	375			0.00-	2.00	1.25
8.557	8.532	0.025	127	38064			10.00-	80.00	47.41
8.557	8.532	0.025	197	0	0.0	0.0	0.00-	2.00	0.00
8.557	8.532	0.025	442	71112			50.00-	0.00	88.57
8.557	8.532	0.025	199	5159			5.00-	9.00	6.43
8.557	8.532	0.025	275	23768			10.00-	60.00	29.60
8.557	8.532	0.025	365	3676			1.00-	0.00	4.58
8.557	8.532	0.025	441	10694			0.01-	99.99	77.10
8.557	8.532	0.025	443	13871			15.00-	24.00	19.51

Data File: 1DF11002.D

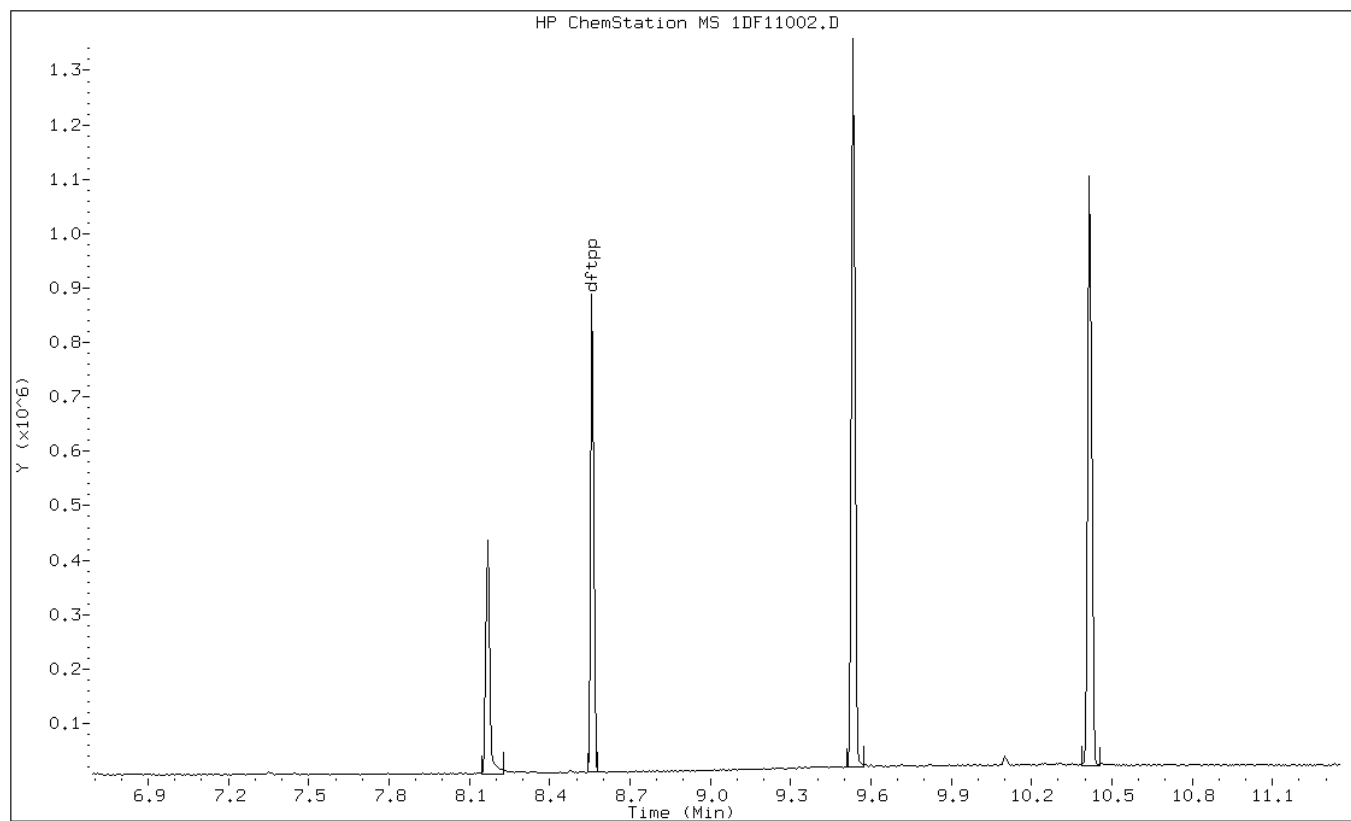
Date: 11-JUN-2013 11:44

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1546763

Operator: SCC



Data File: 1DF11002.D

Date: 11-JUN-2013 11:44

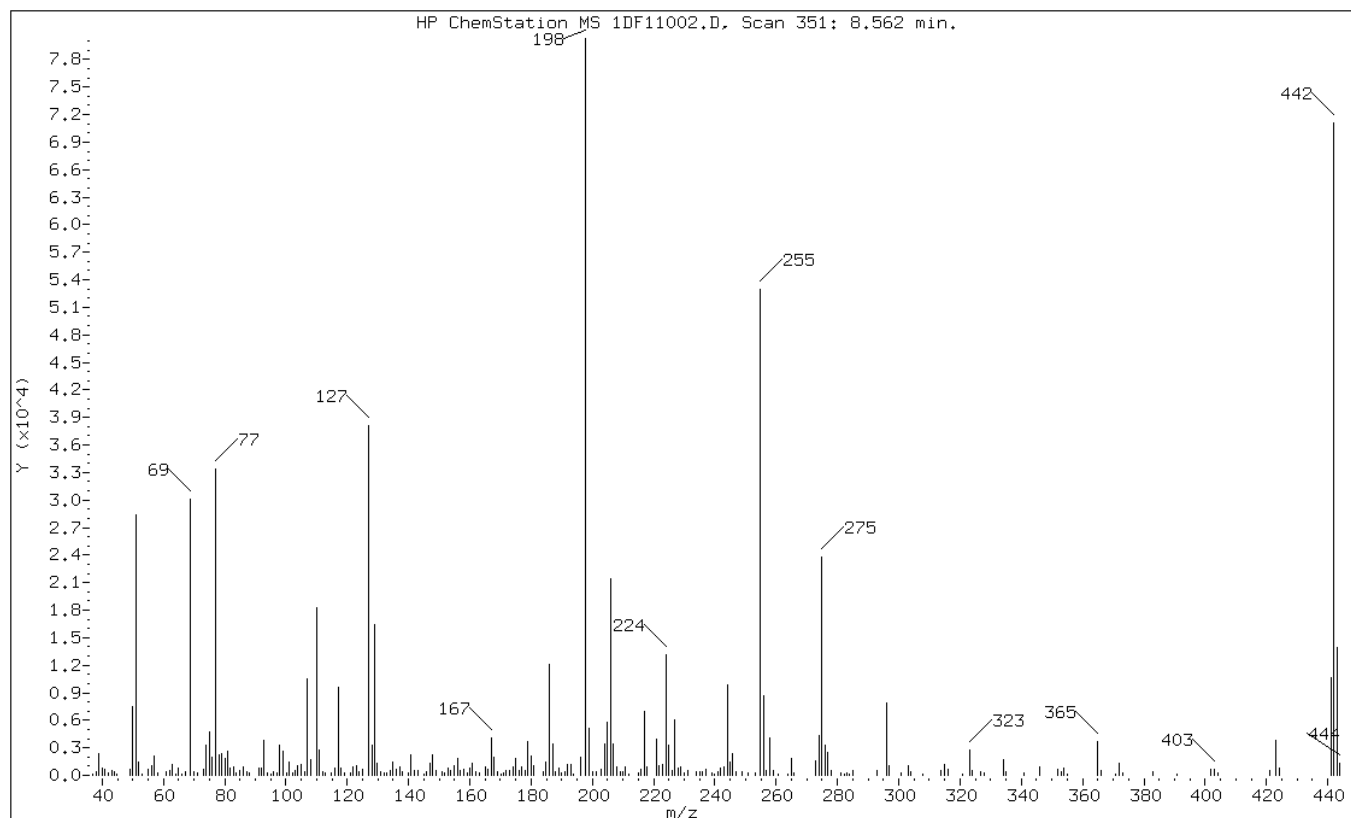
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1546763

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	35.29
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	37.46
70	Less than 2.00% of mass 69	0.47 (1.25)
127	10.00 - 80.00% of mass 198	47.41
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	88.57
199	5.00 - 9.00% of mass 198	6.43
275	10.00 - 60.00% of mass 198	29.60
365	Greater than 1.00% of mass 198	4.58
441	Present, but less than mass 443	13.32
443	15.00 - 24.00% of mass 442	17.28 (19.51)

Data File: 1DF11002.D

Date: 11-JUN-2013 11:44

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1546763

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11002.D
Spectrum: HP ChemStation MS 1DF11002.D, Scan 351: 8.562 min.
Location of Maximum: 197.90
Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	165	109.90	18232	178.90	3634	256.90	584
38.10	383	110.90	2712	179.90	2055	257.90	4134
39.00	2399	111.90	385	180.90	1017	258.90	548
39.90	727	112.90	252	183.90	352	260.70	156
41.00	673	114.90	243	184.90	1454	263.90	176
41.90	250	115.90	739	186.00	12053	264.90	1831
43.00	472	117.00	9613	187.00	3467	265.90	244
44.00	378	117.90	813	187.90	395	272.90	1629
44.90	157	118.90	210	189.00	781	273.90	4397
49.00	612	120.90	198	189.90	207	274.90	23768
50.00	7538	122.00	910	191.10	345	275.90	3294
51.00	28336	122.90	1045	191.90	1247	276.90	2497
52.00	1440	123.90	368	192.90	1188	278.00	481
53.10	151	125.00	602	193.90	184	281.00	256
55.00	689	127.00	38064	196.00	2030	282.10	195
56.00	1014	128.00	3290	197.90	80288	282.90	307
57.00	2132	128.90	16372	198.90	5159	284.00	157
58.00	201	129.90	1348	199.90	401	284.90	466
60.90	430	131.00	382	201.40	375	292.90	495
61.90	535	131.90	224	202.90	640	295.90	7908
63.00	1228	133.00	268	203.90	3430	296.90	1100
64.10	177	133.90	513	205.00	5739	300.90	209
65.00	767	135.00	1439	206.00	21400	303.00	1098
66.00	155	135.90	661	206.90	3390	304.00	352
67.00	387	137.00	898	207.90	958	308.00	155
68.90	30072	137.90	348	209.00	333	313.90	512
69.90	375	139.80	270	210.00	447	315.00	1125
71.10	215	140.90	2244	210.90	864	316.00	640
72.90	702	142.00	480	212.00	190	320.70	159
74.00	3265	142.90	567	214.90	325	323.00	2777
74.90	4781	145.00	160	215.90	614	324.00	539
76.00	1990	145.80	407	216.90	6919	326.90	454
77.00	33312	147.00	1344	217.90	878	328.00	327
78.10	2279	147.90	2230	221.00	3968	334.00	1766
79.00	2391	148.90	547	221.80	1013	334.90	333
80.00	1889	151.10	349	223.00	1240	340.90	268
81.00	2689	151.80	283	223.90	13095	345.90	859
81.90	848	152.90	748	225.00	3261	352.00	684
83.00	910	153.80	468	226.00	492	353.00	454
83.80	304	154.90	1092	226.90	6062	354.00	731

84.90	544	155.90	1853	227.90	804	355.10	192
86.00	935	156.90	510	228.90	945	364.90	3676
87.10	356	157.90	593	229.90	248	365.90	547
87.90	220	159.00	304	231.00	524	370.80	178
91.00	772	159.90	770	233.90	418	371.90	1276
92.00	757	160.90	1260	235.00	344	373.00	210
92.90	3855	161.90	346	235.90	391	382.90	357
94.00	316	163.00	221	236.90	599	391.00	160
95.20	162	164.90	873	239.00	304	401.90	627
95.90	352	165.90	673	239.80	175	402.90	712
97.00	315	166.90	4098	240.90	432	404.00	276
98.00	3338	167.90	1976	241.90	833	420.90	557
99.00	2681	169.00	412	242.90	871	423.00	3826
100.10	207	170.10	163	244.00	9857	424.10	828
100.90	1496	171.00	268	245.00	1499	441.00	10694
102.20	211	171.90	465	245.90	2404	441.90	71112
102.90	463	172.90	543	247.00	438	443.00	13871
103.90	997	174.00	951	249.00	366	443.90	1356
104.80	1122	175.00	1779	250.90	210		
106.00	357	176.20	579	253.00	282		
107.00	10553	176.90	864	254.90	52960		
108.00	1655	177.90	510	255.90	8631		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-90855-2</u>
SDG No.: <u>68090855-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-138156/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DF07012.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>06/06/2013 14:10</u>
Sample wt/vol: <u>14.99(g)</u>	Date Analyzed: <u>06/07/2013 15:23</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>138205</u>	Units: <u>ug/Kg</u>

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	71		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07012.D
 Lab Smp Id: MB 660-138156/1-A
 Inj Date : 07-JUN-2013 15:23
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : MB 660-138156/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\dFASTPAHi.m
 Meth Date : 07-Jun-2013 12:37 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 15 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	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/l)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8		136	6.259	6.266	(1.000)	3705122	40.0000	
* 7 Acenaphthene-d10		164	7.934	7.935	(1.000)	2132330	40.0000	
* 11 Phenanthrene-d10		188	9.191	9.192	(1.000)	3368643	40.0000	
\$ 15 o-Terphenyl		230	9.497	9.498	(1.033)	351480	7.12197	480
* 19 Chrysene-d12		240	11.553	11.554	(1.000)	3387293	40.0000	
* 24 Perylene-d12		264	13.457	13.458	(1.000)	3162996	40.0000	
12 Phenanthrene		178	9.209	9.210	(1.002)	3384	0.03709	2.5(0)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: 1DF07012.D

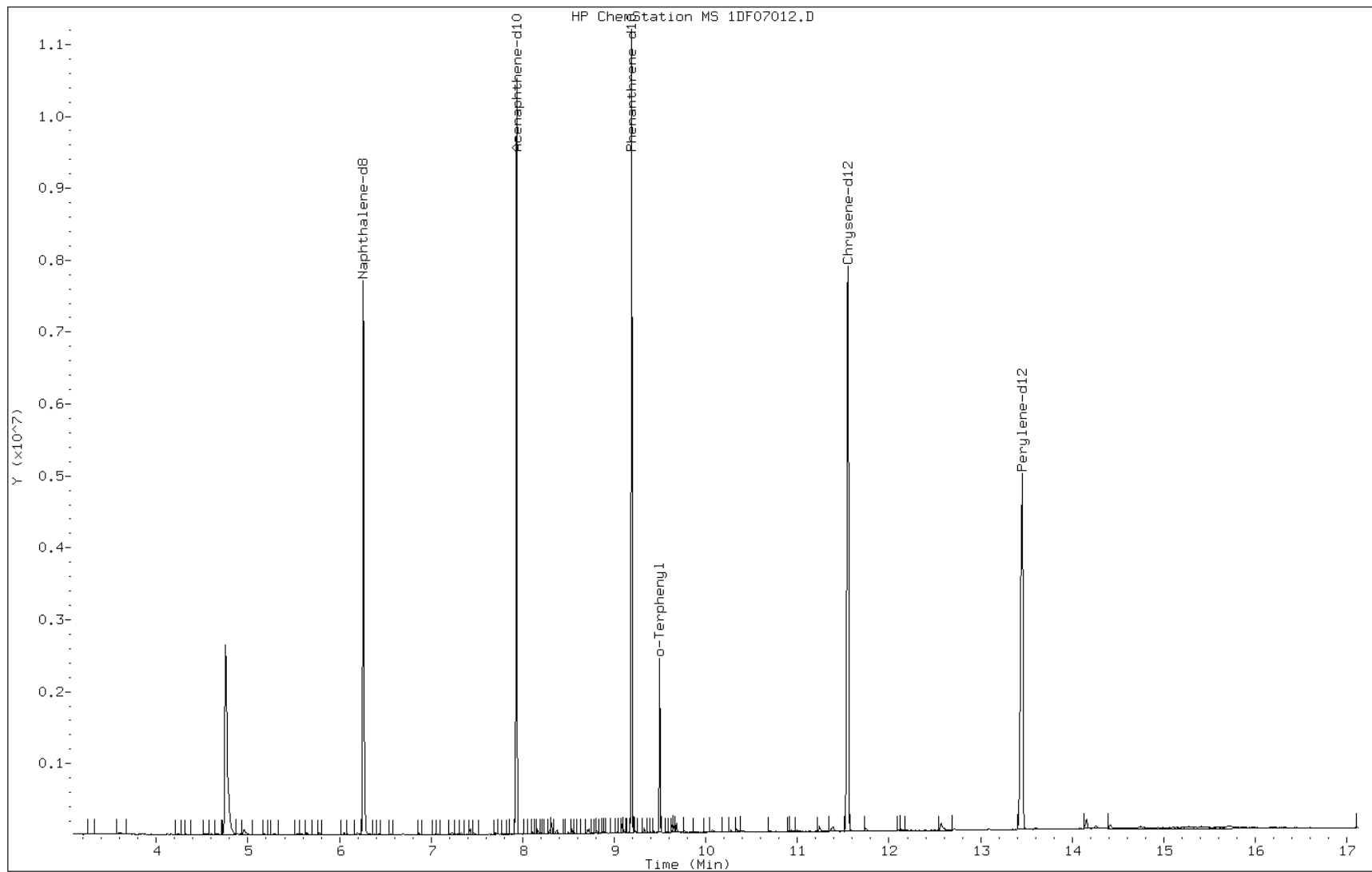
Date: 07-JUN-2013 15:23

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-138156/1-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-90855-2</u>
SDG No.: <u>68090855-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-138190/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DF11005.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>06/07/2013 10:07</u>
Sample wt/vol: <u>15.19(g)</u>	Date Analyzed: <u>06/11/2013 12:45</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>138352</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.3	U	8.3	4.1
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	7.0
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.9	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	83		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11005.D
 Lab Smp Id: mb 660-138190/1-a
 Inj Date : 11-JUN-2013 12:45
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : mb 660-138190/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
 Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.256	6.260	(1.000)		3654869	40.0000	
* 7 Acenaphthene-d10	164		7.925	7.929	(1.000)		2224135	40.0000	
* 11 Phenanthrene-d10	188		9.188	9.192	(1.000)		3524277	40.0000	
\$ 15 o-Terphenyl	230		9.494	9.497	(1.033)		429620	8.32087	550
* 19 Chrysene-d12	240		11.550	11.560	(1.000)		3660370	40.0000	
* 24 Perylene-d12	264		13.460	13.469	(1.000)		3242645	40.0000	
12 Phenanthrene	178		9.200	9.210	(1.001)		4246	0.04448	2.9(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: 1DF11005.D

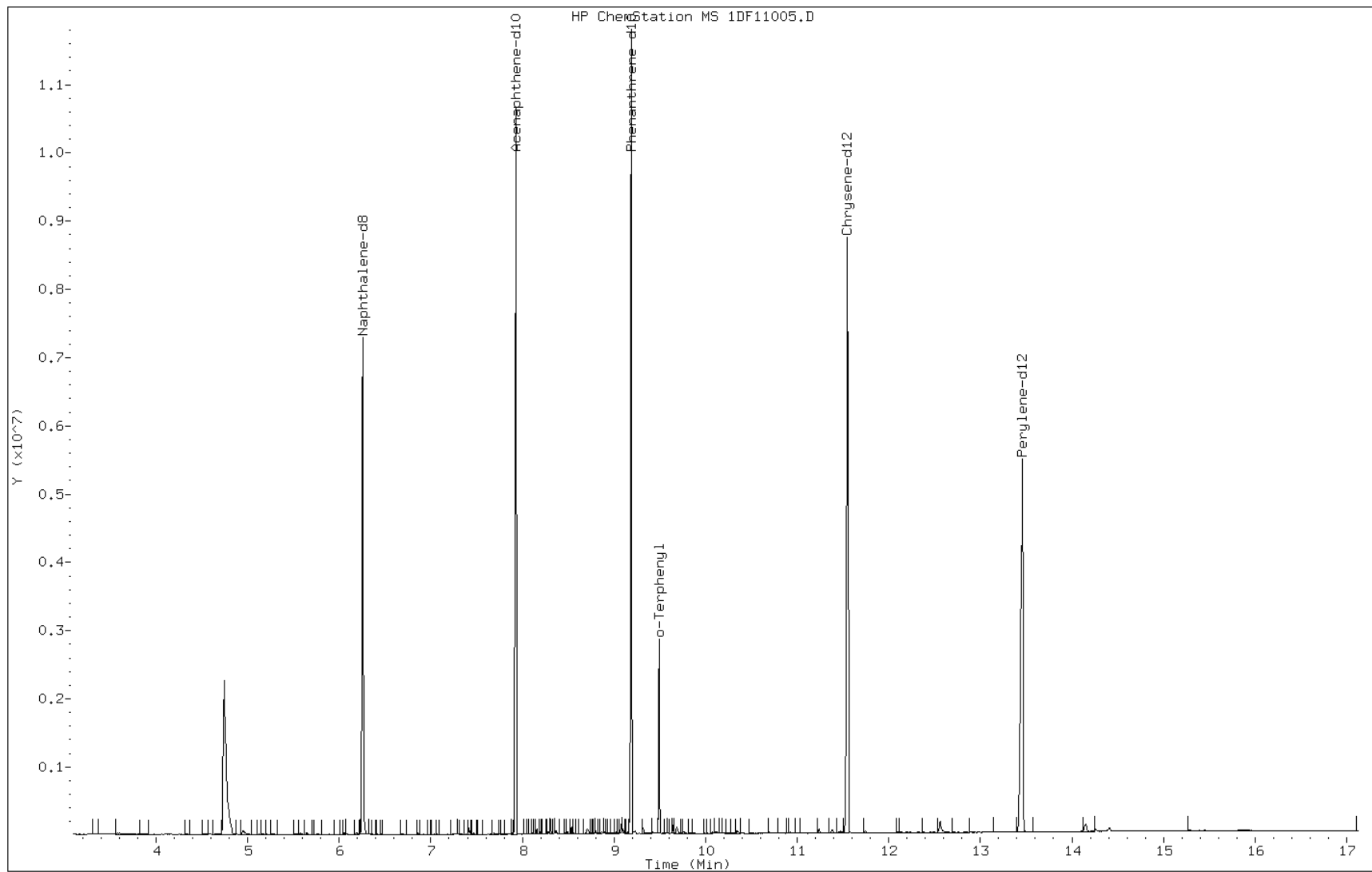
Date: 11-JUN-2013 12:45

Client ID:

Instrument: BSMSD.i

Sample Info: mb 660-138190/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-90855-2</u>
SDG No.: <u>68090855-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-138156/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DF07016.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>06/06/2013 14:10</u>
Sample wt/vol: <u>14.95(g)</u>	Date Analyzed: <u>06/07/2013 16:54</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>138205</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	504		100	20
208-96-8	Acenaphthylene	551		40	5.0
120-12-7	Anthracene	555		8.4	4.2
56-55-3	Benzo[a]anthracene	486		8.0	3.9
50-32-8	Benzo[a]pyrene	496		10	5.2
205-99-2	Benzo[b]fluoranthene	541		12	6.1
191-24-2	Benzo[g,h,i]perylene	555		20	4.4
207-08-9	Benzo[k]fluoranthene	537		8.0	3.6
218-01-9	Chrysene	492		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	532		20	4.1
206-44-0	Fluoranthene	539		20	4.0
86-73-7	Fluorene	547		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	512		20	7.1
90-12-0	1-Methylnaphthalene	509		40	4.4
91-57-6	2-Methylnaphthalene	541		40	7.1
91-20-3	Naphthalene	523		40	4.4
85-01-8	Phenanthrene	531		8.0	3.9
129-00-0	Pyrene	508		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07016.D
Lab Smp Id: lcs 660-138156/2-a
Inj Date : 07-JUN-2013 16:54
Operator : SCC Inst ID: BSMSD.i
Smp Info : lcs 660-138156/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\dFASTPAHi.m
Meth Date : 07-Jun-2013 12:37 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	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

						CONCENTRATIONS			
		QUANT SIG						ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.260	6.266	(1.000)	3415746	40.0000		
*	7 Acenaphthene-d10	164	7.935	7.935	(1.000)	1984341	40.0000		
*	11 Phenanthrene-d10	188	9.192	9.192	(1.000)	3217461	40.0000		
\$	15 o-Terphenyl	230	9.498	9.498	(1.033)	355225	7.53606	500	
*	19 Chrysene-d12	240	11.554	11.554	(1.000)	3231448	40.0000		
*	24 Perylene-d12	264	13.452	13.458	(1.000)	3042857	40.0000		
	2 Naphthalene	128	6.284	6.284	(1.004)	658734	7.82028	520	
	3 2-Methylnaphthalene	142	6.983	6.983	(1.115)	433639	8.08528	540	
	4 1-Methylnaphthalene	142	7.071	7.077	(1.129)	419919	7.60518	510	
	5 1,1'-Biphenyl	154	7.418	7.418	(0.935)	740	0.01104	0.74(aQR)	
	6 Acenaphthylene	152	7.806	7.805	(0.984)	678098	8.24198	550	
	8 Acenaphthene	154	7.958	7.958	(1.003)	393024	7.53034	500	
	9 Dibenzofuran	168	8.105	8.111	(1.021)	579376	8.05079	540	
	10 Fluorene	166	8.399	8.399	(1.058)	482814	8.17591	550	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Phenanthrene	178	9.210	9.210	(1.002)	691489	7.93543	530
13 Anthracene	178	9.251	9.251	(1.006)	701475	8.29664	550
16 Fluoranthene	202	10.191	10.191	(1.109)	717967	8.05376	540
17 Pyrene	202	10.379	10.379	(0.898)	718604	7.59551	510
18 Benzo(a)anthracene	228	11.537	11.536	(0.998)	696377	7.26131	480
20 Chrysene	228	11.578	11.577	(1.002)	635431	7.35808	490
21 Benzo(b)fluoranthene	252	12.888	12.894	(0.958)	617115	8.09540	540
22 Benzo(k)fluoranthene	252	12.923	12.935	(0.961)	640952	8.02913	540
23 Benzo(a)pyrene	252	13.352	13.358	(0.993)	552213	7.41568	500
25 Indeno(1,2,3-cd)pyrene	276	15.091	15.103	(1.122)	594109	7.65962	510
26 Dibenzo(a,h)anthracene	278	15.126	15.144	(1.124)	573451	7.95729	530
27 Benzo(g,h,i)perylene	276	15.561	15.585	(1.157)	573035	8.29376	550

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.

Data File: 1DF07016.D

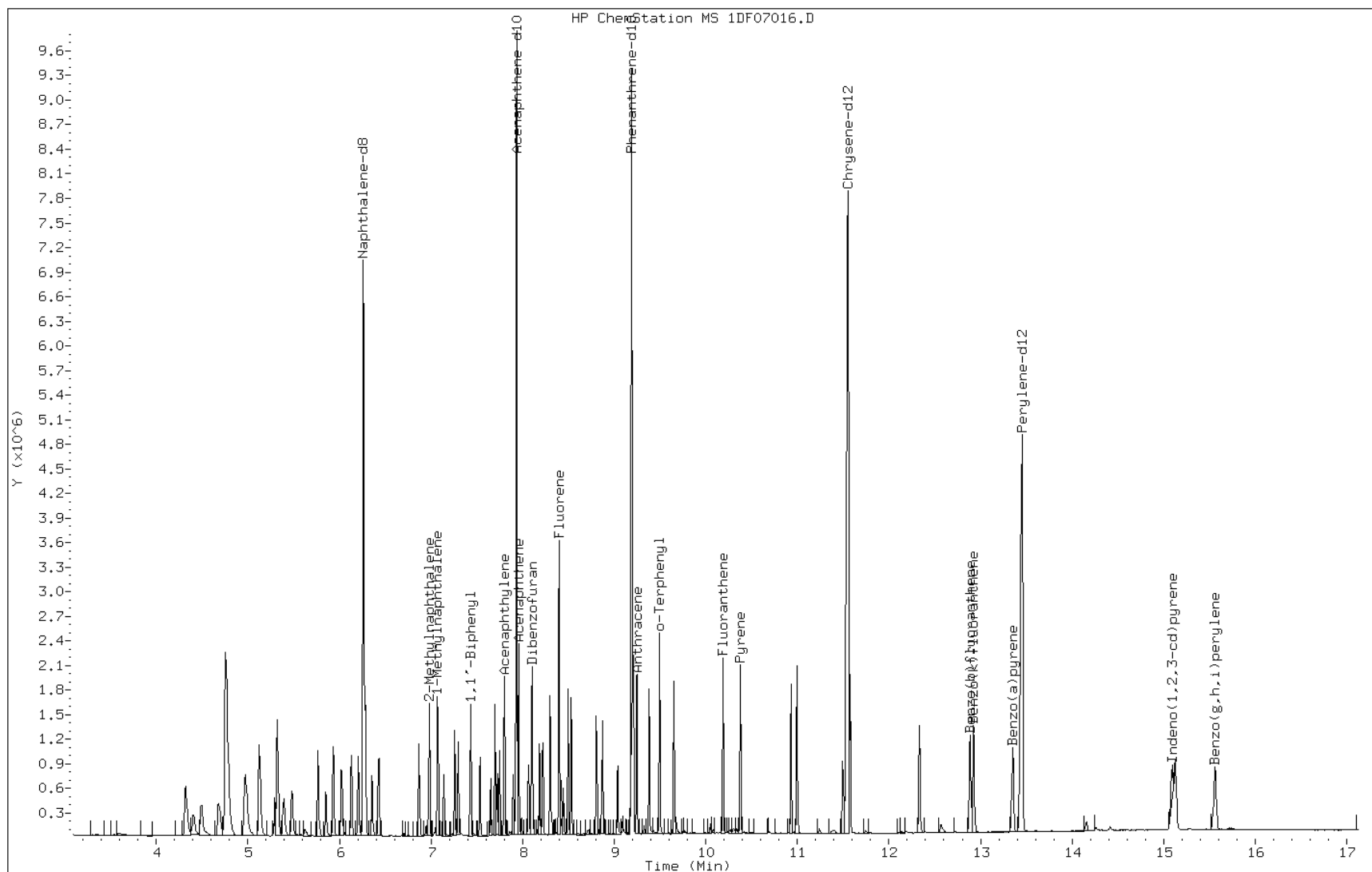
Date: 07-JUN-2013 16:54

Client ID:

Instrument: BSMSD.i

Sample Info: lcs 660-138156/2-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-90855-2</u>
SDG No.: <u>68090855-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-138190/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DF11006.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>06/07/2013 10:07</u>
Sample wt/vol: <u>14.99(g)</u>	Date Analyzed: <u>06/11/2013 13:08</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>138352</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	407		100	20
208-96-8	Acenaphthylene	445		40	5.0
120-12-7	Anthracene	439		8.4	4.2
56-55-3	Benzo[a]anthracene	399		8.0	3.9
50-32-8	Benzo[a]pyrene	398		10	5.2
205-99-2	Benzo[b]fluoranthene	451		12	6.1
191-24-2	Benzo[g,h,i]perylene	414		20	4.4
207-08-9	Benzo[k]fluoranthene	426		8.0	3.6
218-01-9	Chrysene	382		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	408		20	4.1
206-44-0	Fluoranthene	435		20	4.0
86-73-7	Fluorene	452		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	391		20	7.1
90-12-0	1-Methylnaphthalene	418		40	4.4
91-57-6	2-Methylnaphthalene	446		40	7.1
91-20-3	Naphthalene	417		40	4.4
85-01-8	Phenanthrene	430		8.0	3.9
129-00-0	Pyrene	413		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11006.D
Lab Smp Id: lcs 660-138190/2-a
Inj Date : 11-JUN-2013 13:08
Operator : SCC Inst ID: BSMSD.i
Smp Info : lcs 660-138190/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	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/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.257	6.260	(1.000)	3534898	40.0000		
*	7 Acenaphthene-d10	164	7.926	7.929	(1.000)	2200448	40.0000		
*	11 Phenanthrene-d10	188	9.189	9.192	(1.000)	3645131	40.0000		
\$	15 o-Terphenyl	230	9.489	9.497	(1.033)	330228	6.18380	410	
*	19 Chrysene-d12	240	11.551	11.560	(1.000)	3632829	40.0000		
*	24 Perylene-d12	264	13.461	13.469	(1.000)	3183022	40.0000		
	2 Naphthalene	128	6.275	6.284	(1.003)	544464	6.24583	420	
	3 2-Methylnaphthalene	142	6.974	6.977	(1.115)	371381	6.69106	450	
	4 1-Methylnaphthalene	142	7.068	7.071	(1.130)	357875	6.26302	420	
	6 Acenaphthylene	152	7.797	7.799	(0.984)	608474	6.66939	440	
	8 Acenaphthene	154	7.955	7.958	(1.004)	353181	6.10237	410	
	10 Fluorene	166	8.396	8.399	(1.059)	443741	6.77628	450	
	12 Phenanthrene	178	9.207	9.210	(1.002)	635942	6.44174	430	
	13 Anthracene	178	9.242	9.251	(1.006)	629961	6.57664	440	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
16 Fluoranthene	202	10.188	10.191	(1.109)	657860	6.51370	430
17 Pyrene	202	10.376	10.379	(0.898)	658360	6.18989	410
18 Benzo(a)anthracene	228	11.533	11.536	(0.998)	644181	5.97490	400
20 Chrysene	228	11.575	11.583	(1.002)	555696	5.72382	380
21 Benzo(b)fluoranthene	252	12.891	12.899	(0.958)	539062	6.76009	450
22 Benzo(k)fluoranthene	252	12.926	12.940	(0.960)	533259	6.38591	430
23 Benzo(a)pyrene	252	13.355	13.369	(0.992)	463459	5.96920	400
25 Indeno(1,2,3-cd)pyrene	276	15.094	15.120	(1.121)	472488	5.85885	390(M)
26 Dibenzo(a,h)anthracene	278	15.129	15.156	(1.124)	460091	6.11993	410
27 Benzo(g,h,i)perylene	276	15.570	15.602	(1.157)	448963	6.21187	410

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF11006.D

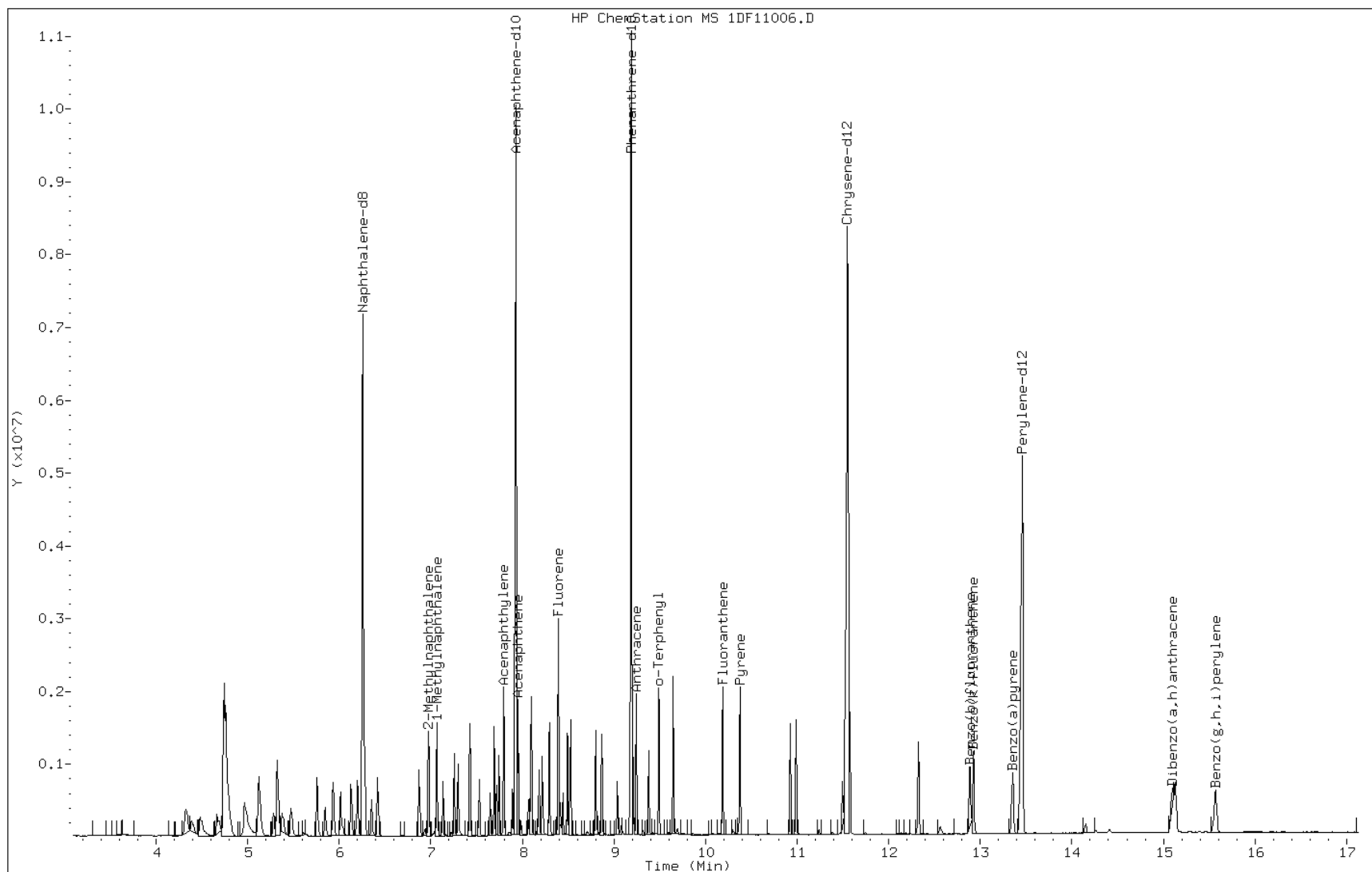
Date: 11-JUN-2013 13:08

Client ID:

Instrument: BSMSD.i

Sample Info: lcs 660-138190/2-a

Operator: SCC

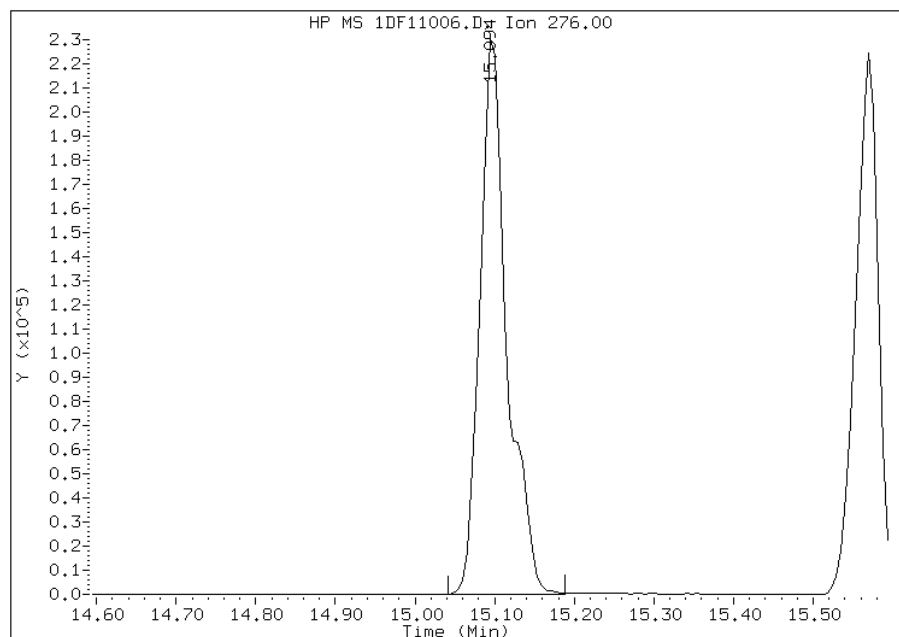


Manual Integration Report

Data File: 1DF11006.D
Inj. Date and Time: 11-JUN-2013 13:08
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

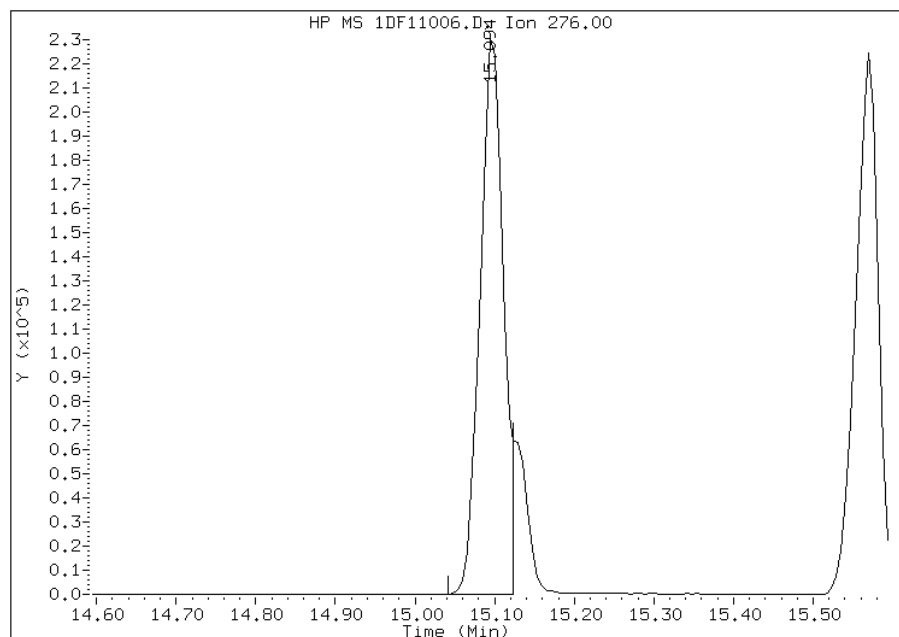
Processing Integration Results

RT: 15.09
Response: 538128
Amount: 7
Conc: 444



Manual Integration Results

RT: 15.09
Response: 472488
Amount: 6
Conc: 391



Manually Integrated By: cantins
Modification Date: 12-Jun-2013 12:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-90855-2</u>
SDG No.: <u>68090855-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-91068-A-12-B MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DF11027.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>06/07/2013 10:07</u>
Sample wt/vol: <u>15.31(g)</u>	Date Analyzed: <u>06/11/2013 21:01</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>10.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>138352</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	406		110	22
208-96-8	Acenaphthylene	455		44	5.5
120-12-7	Anthracene	454		9.2	4.6
56-55-3	Benzo[a]anthracene	544		8.8	4.3
50-32-8	Benzo[a]pyrene	487		11	5.7
205-99-2	Benzo[b]fluoranthene	789		13	6.7
191-24-2	Benzo[g,h,i]perylene	311		22	4.8
207-08-9	Benzo[k]fluoranthene	491		8.8	4.0
218-01-9	Chrysene	564		9.9	4.9
53-70-3	Dibenz(a,h)anthracene	301		22	4.5
206-44-0	Fluoranthene	744		22	4.4
86-73-7	Fluorene	444		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	339		22	7.8
90-12-0	1-Methylnaphthalene	472		44	4.8
91-57-6	2-Methylnaphthalene	533		44	7.8
91-20-3	Naphthalene	499		44	4.8
85-01-8	Phenanthrene	663		8.8	4.3
129-00-0	Pyrene	605		22	4.1

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11027.D
 Lab Smp Id: 680-91068-a-12-b ms
 Inj Date : 11-JUN-2013 21:01
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-91068-a-12-b ms
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
 Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 27 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.310	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
		QUANT	SIG			ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.266	6.260	(1.000)	3488925	40.0000	
*	7 Acenaphthene-d10	164	7.935	7.929	(1.000)	2059304	40.0000	
*	11 Phenanthrene-d10	188	9.198	9.192	(1.000)	3299313	40.0000	
\$	15 o-Terphenyl	230	9.497	9.497	(1.033)	247869	5.12806	330
*	19 Chrysene-d12	240	11.577	11.560	(1.000)	3264426	40.0000	
*	24 Perylene-d12	264	13.499	13.469	(1.000)	2602655	40.0000	
	2 Naphthalene	128	6.284	6.284	(1.003)	586264	6.81396	440
	3 2-Methylnaphthalene	142	6.983	6.977	(1.114)	398613	7.27633	480
	4 1-Methylnaphthalene	142	7.077	7.071	(1.129)	363509	6.44544	420
	6 Acenaphthylene	152	7.805	7.799	(0.984)	529644	6.20324	400
	8 Acenaphthene	154	7.964	7.958	(1.004)	299862	5.53622	360
	10 Fluorene	166	8.405	8.399	(1.059)	371358	6.05962	400
	12 Phenanthrene	178	9.215	9.210	(1.002)	808106	9.04364	590
	13 Anthracene	178	9.256	9.251	(1.006)	537598	6.20066	400

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
16 Fluoranthene	202	10.202	10.191	(1.109)	927771	10.1490	660
17 Pyrene	202	10.390	10.379	(0.897)	789655	8.26219	540
18 Benzo(a)anthracene	228	11.560	11.536	(0.998)	719050	7.42198	480
20 Chrysene	228	11.601	11.583	(1.002)	670866	7.68993	500
21 Benzo(b)fluoranthene	252	12.929	12.899	(0.958)	702225	10.7699	700
22 Benzo(k)fluoranthene	252	12.958	12.940	(0.960)	457451	6.69965	440
23 Benzo(a)pyrene	252	13.393	13.369	(0.992)	422818	6.64872	430
25 Indeno(1,2,3-cd)pyrene	276	15.161	15.120	(1.123)	303293	4.63128	300(M)
26 Dibenzo(a,h)anthracene	278	15.191	15.156	(1.125)	251219	4.11066	270
27 Benzo(g,h,i)perylene	276	15.643	15.602	(1.159)	250816	4.24415	280

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF11027.D

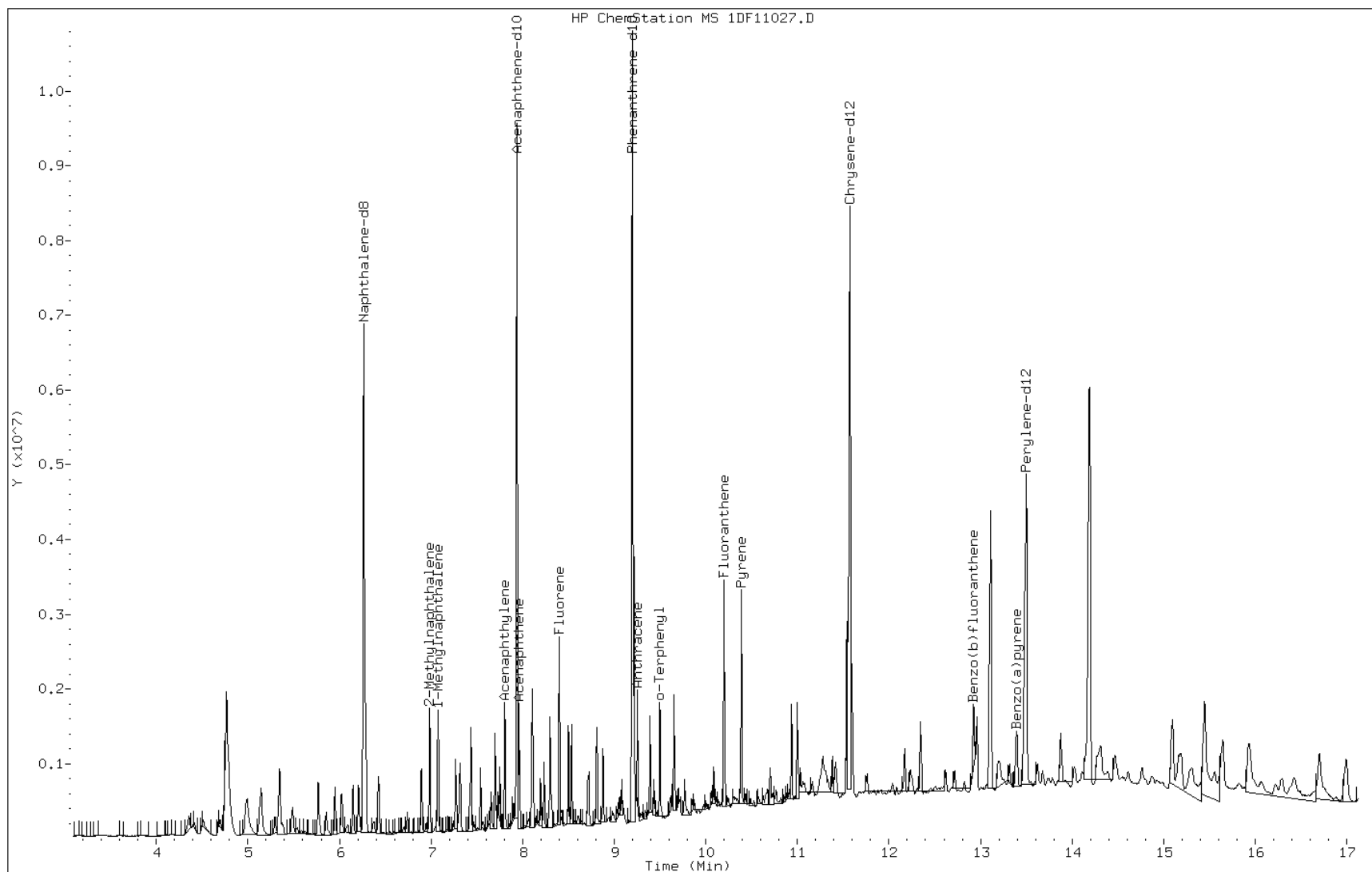
Date: 11-JUN-2013 21:01

Client ID:

Instrument: BSMSD.i

Sample Info: 680-91068-a-12-b ms

Operator: SCC

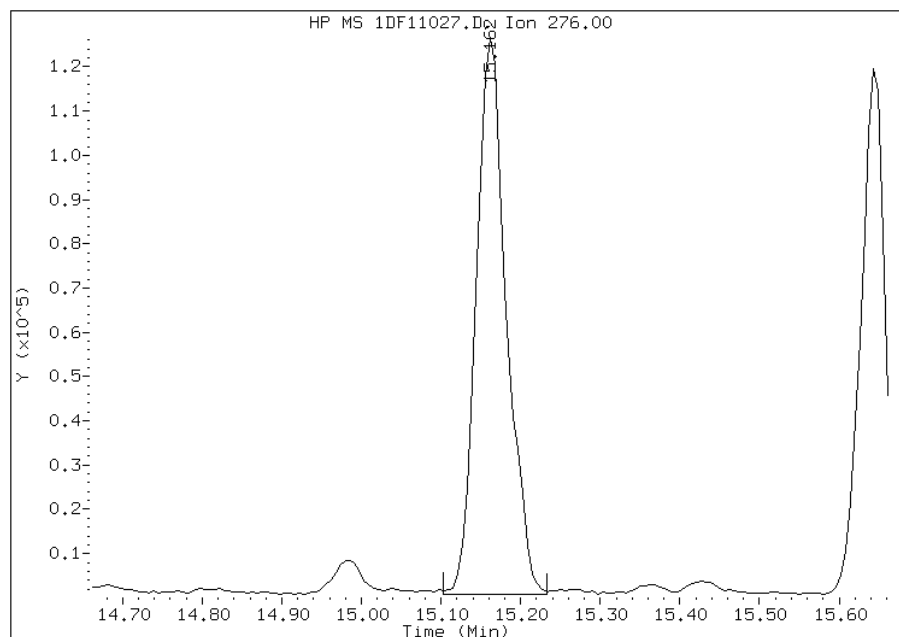


Manual Integration Report

Data File: 1DF11027.D
Inj. Date and Time: 11-JUN-2013 21:01
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

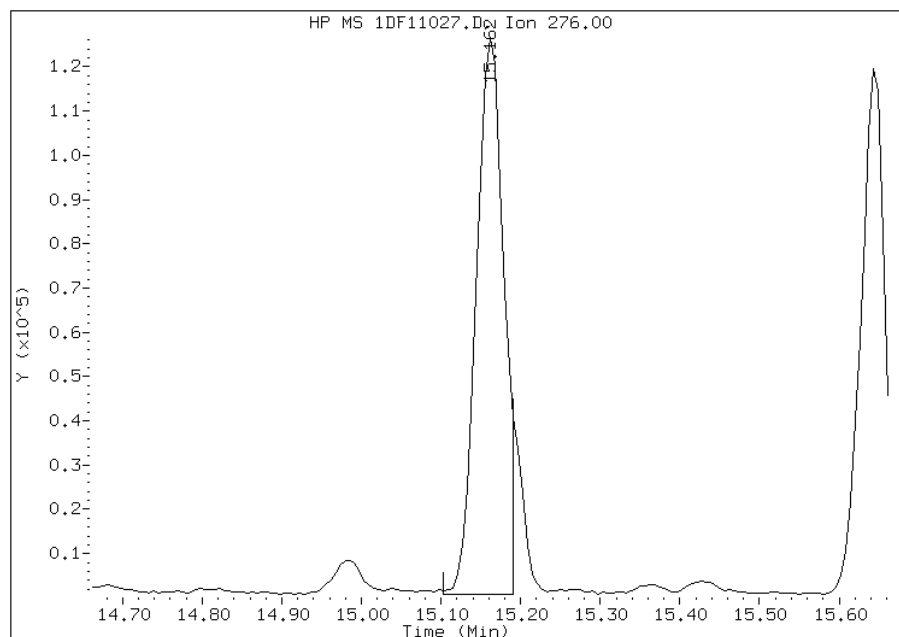
Processing Integration Results

RT: 15.16
Response: 329747
Amount: 5
Conc: 328



Manual Integration Results

RT: 15.16
Response: 303293
Amount: 5
Conc: 303



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-90855-2</u>
SDG No.: <u>68090855-2</u>	
Client Sample ID: <u>CV1285A-CS MS</u>	Lab Sample ID: <u>680-90855-21 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DF07027.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>05/30/2013 13:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>06/06/2013 14:10</u>
Sample wt/vol: <u>15.14(g)</u>	Date Analyzed: <u>06/07/2013 21:02</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>3.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>138205</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	415		100	21
208-96-8	Acenaphthylene	448		41	5.1
120-12-7	Anthracene	459		8.6	4.3
56-55-3	Benzo[a]anthracene	484		8.2	4.0
50-32-8	Benzo[a]pyrene	484		11	5.3
205-99-2	Benzo[b]fluoranthene	593		13	6.3
191-24-2	Benzo[g,h,i]perylene	521		21	4.5
207-08-9	Benzo[k]fluoranthene	487		8.2	3.7
218-01-9	Chrysene	522		9.3	4.6
53-70-3	Dibenz(a,h)anthracene	429		21	4.2
206-44-0	Fluoranthene	643		21	4.1
86-73-7	Fluorene	447		21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	480		21	7.3
90-12-0	1-Methylnaphthalene	463		41	4.5
91-57-6	2-Methylnaphthalene	531		41	7.3
91-20-3	Naphthalene	463		41	4.5
85-01-8	Phenanthrene	616		8.2	4.0
129-00-0	Pyrene	585		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07027.D
 Lab Smp Id: 680-90855-a-21-b ms
 Inj Date : 07-JUN-2013 21:02
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90855-a-21-b ms
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\dFASTPAHi.m
 Meth Date : 07-Jun-2013 12:37 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 27 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.261	6.266	(1.000)		3108408	40.0000	
* 7 Acenaphthene-d10	164		7.935	7.935	(1.000)		1768798	40.0000	
* 11 Phenanthrene-d10	188		9.193	9.192	(1.000)		2856839	40.0000	
\$ 15 o-Terphenyl	230		9.498	9.498	(1.033)		252363	6.02968	400
* 19 Chrysene-d12	240		11.554	11.554	(1.000)		2804268	40.0000	
* 24 Perylene-d12	264		13.464	13.458	(1.000)		2941999	40.0000	
2 Naphthalene	128		6.284	6.284	(1.004)		517712	6.75380	450
3 2-Methylnaphthalene	142		6.983	6.983	(1.115)		378218	7.74920	510
4 1-Methylnaphthalene	142		7.077	7.077	(1.130)		339615	6.75893	450
5 1,1'-Biphenyl	154		7.418	7.418	(0.935)		21940	0.36714	24(R)
6 Acenaphthylene	152		7.806	7.805	(0.984)		479779	6.54212	430
8 Acenaphthene	154		7.959	7.958	(1.003)		282002	6.06158	400
9 Dibenzofuran	168		8.106	8.111	(1.021)		428611	6.68159	440
10 Fluorene	166		8.399	8.399	(1.058)		343657	6.52860	430

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Phenanthrene	178	9.210	9.210	(1.002)	696097	8.99669	590
13 Anthracene	178	9.251	9.251	(1.006)	502976	6.69985	440
16 Fluoranthene	202	10.191	10.191	(1.109)	743006	9.38672	620
17 Pyrene	202	10.379	10.379	(0.898)	701342	8.54230	560
18 Benzo(a)anthracene	228	11.537	11.536	(0.998)	588441	7.07052	470
20 Chrysene	228	11.578	11.577	(1.002)	571393	7.62445	500
21 Benzo(b)fluoranthene	252	12.894	12.894	(0.958)	637910	8.65507	570
22 Benzo(k)fluoranthene	252	12.929	12.935	(0.960)	548830	7.11082	470
23 Benzo(a)pyrene	252	13.364	13.358	(0.993)	508015	7.06080	470
25 Indeno(1,2,3-cd)pyrene	276	15.109	15.103	(1.122)	524761	7.01028	460(M)
26 Dibenzo(a,h)anthracene	278	15.144	15.144	(1.125)	434814	6.25591	410
27 Benzo(g,h,i)perylene	276	15.585	15.585	(1.158)	508254	7.60834	500

QC Flag Legend

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

Data File: 1DF07027.D

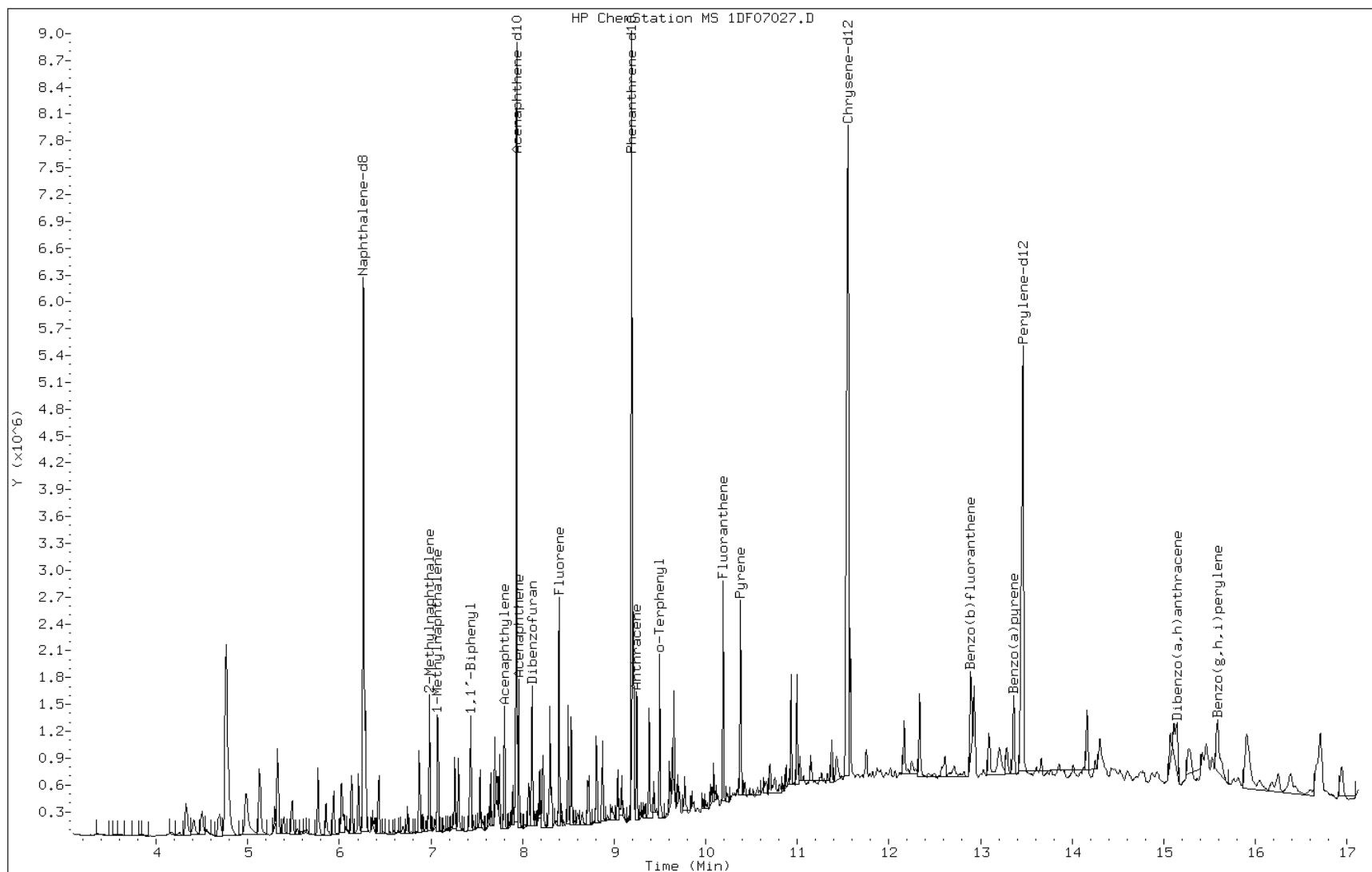
Date: 07-JUN-2013 21:02

Client ID:

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-b ms

Operator: SCC

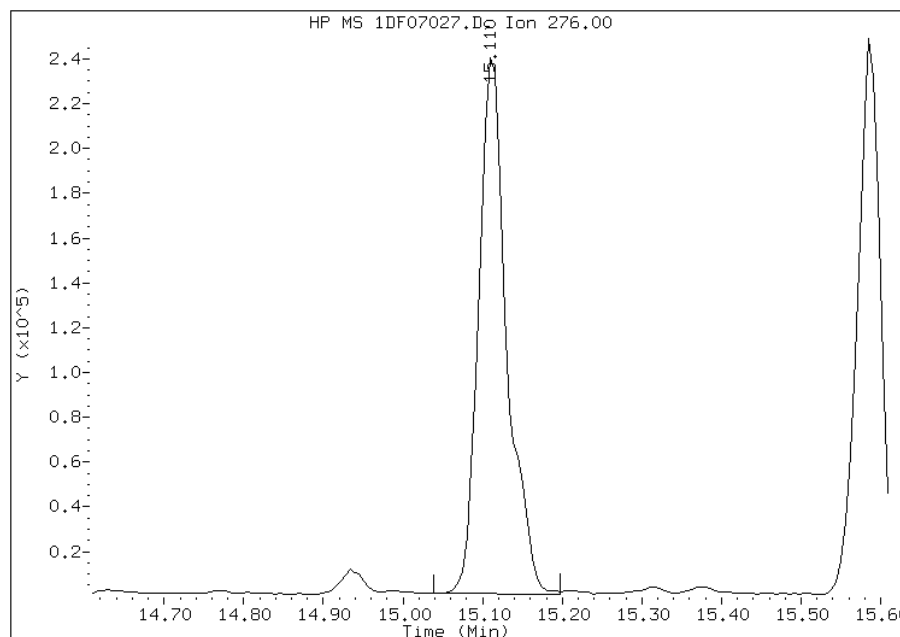


Manual Integration Report

Data File: 1DF07027.D
Inj. Date and Time: 07-JUN-2013 21:02
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

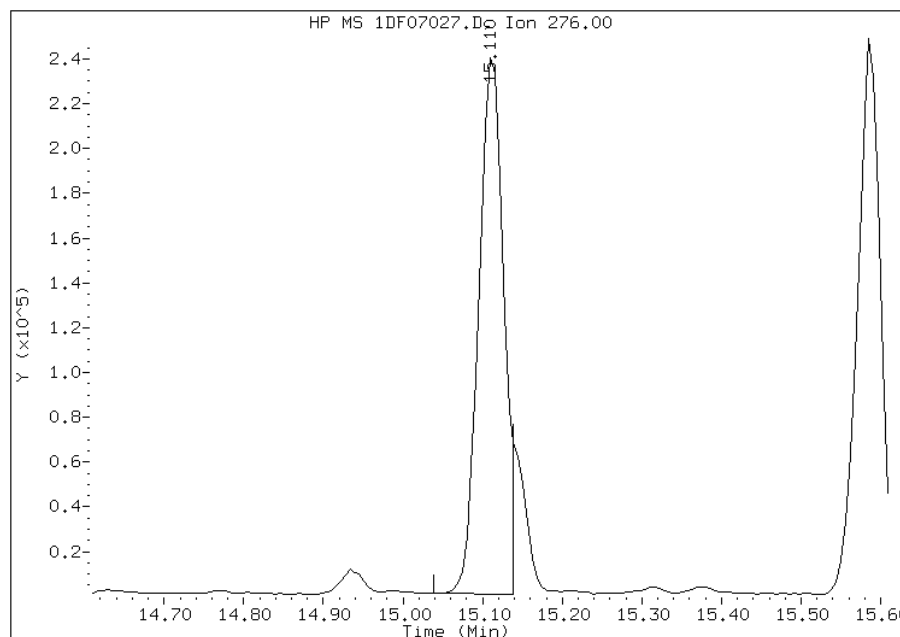
Processing Integration Results

RT: 15.11
Response: 585621
Amount: 8
Conc: 516



Manual Integration Results

RT: 15.11
Response: 524761
Amount: 7
Conc: 463



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 10:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-90855-2</u>
SDG No.: <u>68090855-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-91068-A-12-C MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DF11028.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>06/07/2013 10:07</u>
Sample wt/vol: <u>15.31(g)</u>	Date Analyzed: <u>06/11/2013 21:24</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>10.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>138352</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	457		110	22
208-96-8	Acenaphthylene	509		44	5.5
120-12-7	Anthracene	569		9.2	4.6
56-55-3	Benzo[a]anthracene	832		8.8	4.3
50-32-8	Benzo[a]pyrene	700		11	5.7
205-99-2	Benzo[b]fluoranthene	1150		13	6.7
191-24-2	Benzo[g,h,i]perylene	415		22	4.8
207-08-9	Benzo[k]fluoranthene	669		8.8	4.0
218-01-9	Chrysene	818		9.9	4.9
53-70-3	Dibenz(a,h)anthracene	353		22	4.5
206-44-0	Fluoranthene	1320		22	4.4
86-73-7	Fluorene	510		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	451		22	7.8
90-12-0	1-Methylnaphthalene	566		44	4.8
91-57-6	2-Methylnaphthalene	653		44	7.8
91-20-3	Naphthalene	627		44	4.8
85-01-8	Phenanthrene	1060		8.8	4.3
129-00-0	Pyrene	996		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\1DF11028.D
 Lab Smp Id: 680-91068-a-12-c ms
 Inj Date : 11-JUN-2013 21:24
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-91068-a-12-c msd
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D061113.b\dFASTPAHi.m
 Meth Date : 11-Jun-2013 12:18 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 28 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.310	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
QUANT SIG						ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.266	6.260	(1.000)	3183581	40.0000	
* 7 Acenaphthene-d10	164	7.940	7.929	(1.000)	1881635	40.0000	
* 11 Phenanthrene-d10	188	9.198	9.192	(1.000)	3037557	40.0000	
\$ 15 o-Terphenyl	230	9.503	9.497	(1.033)	231328	5.19826	340
* 19 Chrysene-d12	240	11.577	11.560	(1.000)	3015552	40.0000	
* 24 Perylene-d12	264	13.504	13.469	(1.000)	2341183	40.0000	
2 Naphthalene	128	6.283	6.284	(1.003)	671286	8.55046	560
3 2-Methylnaphthalene	142	6.982	6.977	(1.114)	445568	8.91355	580
4 1-Methylnaphthalene	142	7.076	7.071	(1.129)	397304	7.72034	500
6 Acenaphthylene	152	7.811	7.799	(0.984)	541398	6.93963	450
8 Acenaphthene	154	7.964	7.958	(1.003)	308595	6.23542	410
10 Fluorene	166	8.404	8.399	(1.058)	389582	6.95723	450
12 Phenanthrene	178	9.215	9.210	(1.002)	1190701	14.4736	940(R)
13 Anthracene	178	9.256	9.251	(1.006)	619452	7.76045	510

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
16 Fluoranthene	202	10.202	10.191	(1.109)	1513887	17.9877	1200(R)
17 Pyrene	202	10.390	10.379	(0.897)	1199628	13.5876	890(R)
18 Benzo(a)anthracene	228	11.565	11.536	(0.999)	1015784	11.3502	740
20 Chrysene	228	11.601	11.583	(1.002)	899498	11.1616	730
21 Benzo(b)fluoranthene	252	12.934	12.899	(0.958)	918883	15.6667	1000(R)
22 Benzo(k)fluoranthene	252	12.964	12.940	(0.960)	560558	9.12661	600
23 Benzo(a)pyrene	252	13.398	13.369	(0.992)	548962	9.55273	620
25 Indeno(1,2,3-cd)pyrene	276	15.173	15.120	(1.124)	365208	6.14943	400(M)
26 Dibenzo(a,h)anthracene	278	15.202	15.156	(1.126)	265154	4.81076	310
27 Benzo(g,h,i)perylene	276	15.655	15.602	(1.159)	301143	5.66486	370

QC Flag Legend

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

Data File: 1DF11028.D

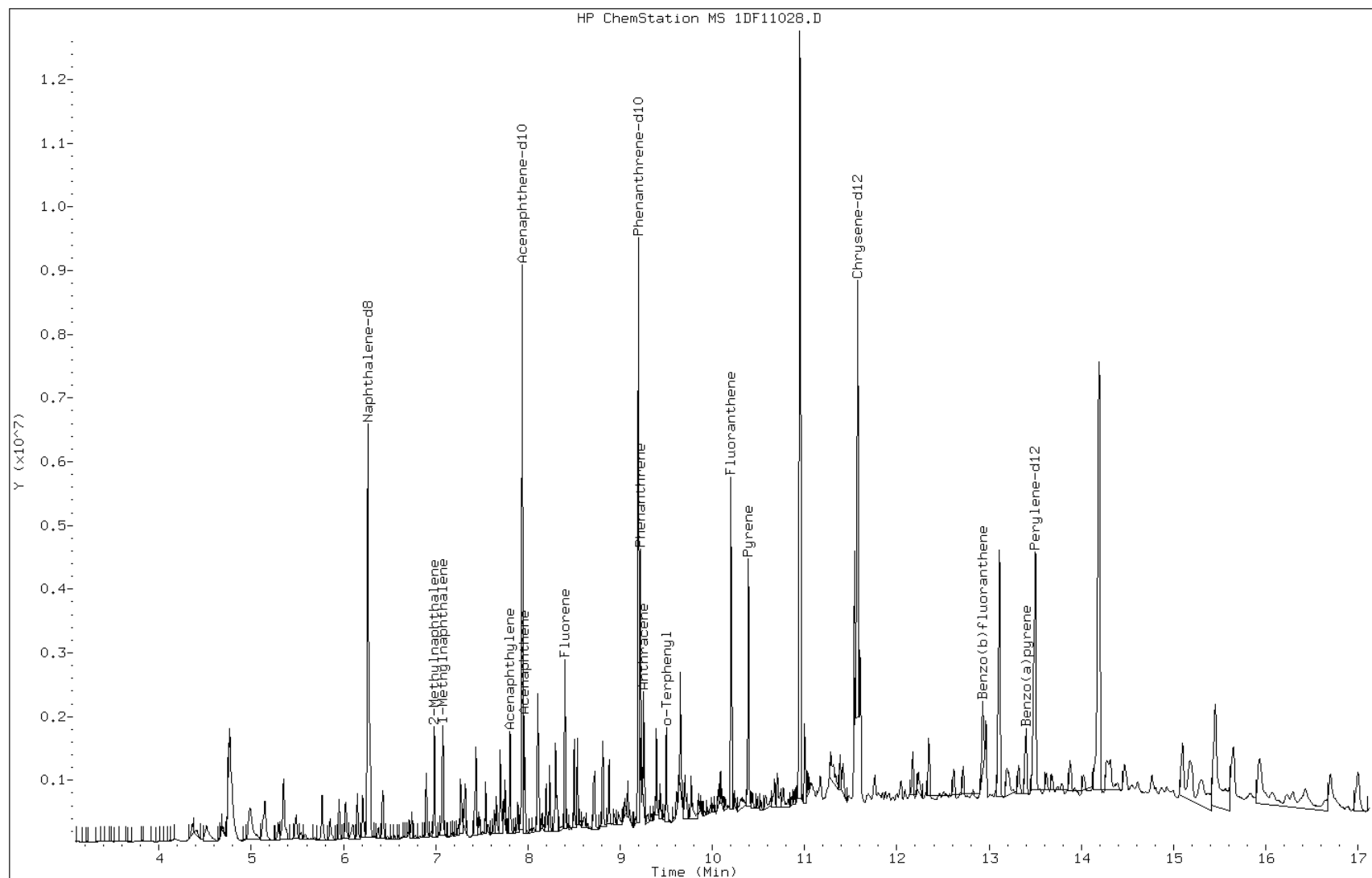
Date: 11-JUN-2013 21:24

Client ID:

Instrument: BSMSD.i

Sample Info: 680-91068-a-12-c msd

Operator: SCC

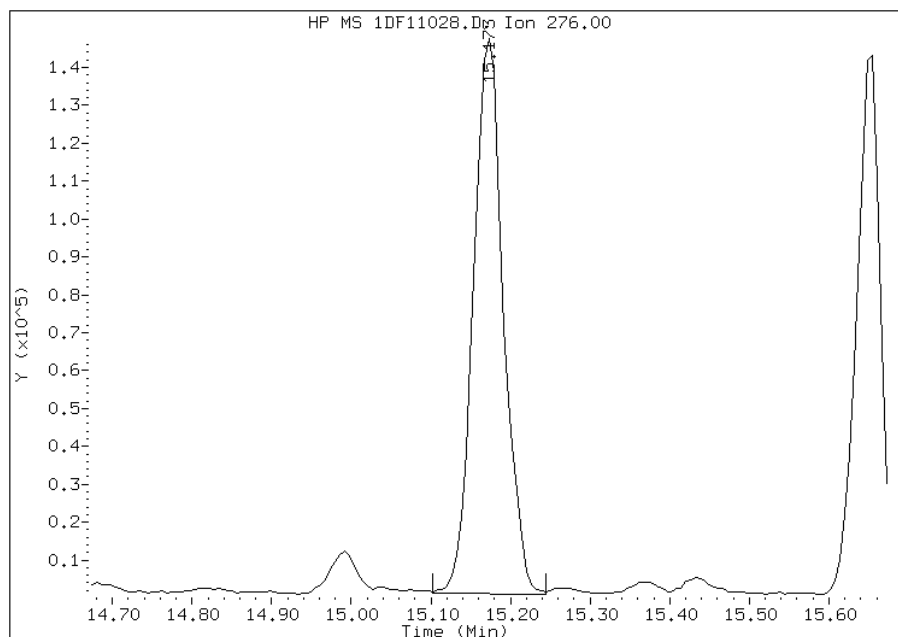


Manual Integration Report

Data File: 1DF11028.D
Inj. Date and Time: 11-JUN-2013 21:24
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/12/2013

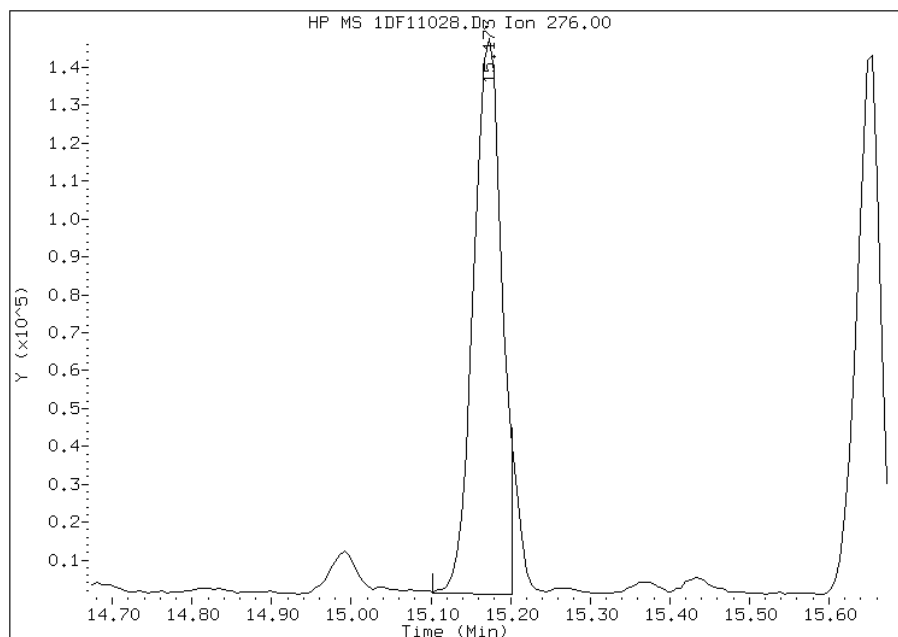
Processing Integration Results

RT: 15.17
Response: 384198
Amount: 6
Conc: 422



Manual Integration Results

RT: 15.17
Response: 365208
Amount: 6
Conc: 402



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-90855-2</u>
SDG No.: <u>68090855-2</u>	
Client Sample ID: <u>CV1285A-CS MSD</u>	Lab Sample ID: <u>680-90855-21 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DF07028.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>05/30/2013 13:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>06/06/2013 14:10</u>
Sample wt/vol: <u>15.11(g)</u>	Date Analyzed: <u>06/07/2013 21:25</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>3.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>138205</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	405		100	21
208-96-8	Acenaphthylene	455		41	5.1
120-12-7	Anthracene	450		8.7	4.3
56-55-3	Benzo[a]anthracene	436		8.2	4.0
50-32-8	Benzo[a]pyrene	431		11	5.4
205-99-2	Benzo[b]fluoranthene	525		13	6.3
191-24-2	Benzo[g,h,i]perylene	444		21	4.5
207-08-9	Benzo[k]fluoranthene	444		8.2	3.7
218-01-9	Chrysene	504		9.3	4.6
53-70-3	Dibenz(a,h)anthracene	402		21	4.2
206-44-0	Fluoranthene	550		21	4.1
86-73-7	Fluorene	444		21	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	425		21	7.3
90-12-0	1-Methylnaphthalene	443		41	4.5
91-57-6	2-Methylnaphthalene	501		41	7.3
91-20-3	Naphthalene	440		41	4.5
85-01-8	Phenanthrene	541		8.2	4.0
129-00-0	Pyrene	495		21	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\1DF07028.D
Lab Smp Id: 680-90855-a-21-c ms
Inj Date : 07-JUN-2013 21:25
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-90855-a-21-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060713.b\dFASTPAHi.m
Meth Date : 07-Jun-2013 12:37 cantins Quant Type: ISTD
Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
Als bottle: 28 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
		QUANT	SIG			ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.263	6.266	(1.000)	3173766	40.0000	
*	7 Acenaphthene-d10	164	7.932	7.935	(1.000)	1801670	40.0000	
*	11 Phenanthrene-d10	188	9.189	9.192	(1.000)	2941176	40.0000	
\$	15 o-Terphenyl	230	9.501	9.498	(1.034)	276104	6.40776	420
*	19 Chrysene-d12	240	11.557	11.554	(1.000)	2896266	40.0000	
*	24 Perylene-d12	264	13.467	13.458	(1.000)	3027894	40.0000	
	2 Naphthalene	128	6.287	6.284	(1.004)	501157	6.40320	420
	3 2-Methylnaphthalene	142	6.980	6.983	(1.114)	363374	7.29174	480
	4 1-Methylnaphthalene	142	7.074	7.077	(1.129)	330909	6.45005	430
	5 1,1'-Biphenyl	154	7.421	7.418	(0.936)	19925	0.32733	22(R)
	6 Acenaphthylene	152	7.803	7.805	(0.984)	494584	6.62095	440
	8 Acenaphthene	154	7.961	7.958	(1.004)	279759	5.90365	390
	9 Dibenzofuran	168	8.108	8.111	(1.022)	429215	6.56892	430
	10 Fluorene	166	8.402	8.399	(1.059)	346957	6.47103	430

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Phenanthrene	178	9.207	9.210	(1.002)	627899	7.88256	520
13 Anthracene	178	9.248	9.251	(1.006)	506515	6.55352	430
16 Fluoranthene	202	10.194	10.191	(1.109)	652405	8.00578	530
17 Pyrene	202	10.382	10.379	(0.898)	611268	7.20871	480
18 Benzo(a)anthracene	228	11.539	11.536	(0.998)	545945	6.35153	420
20 Chrysene	228	11.580	11.577	(1.002)	567892	7.33704	480
21 Benzo(b)fluoranthene	252	12.897	12.894	(0.958)	580264	7.64960	510
22 Benzo(k)fluoranthene	252	12.932	12.935	(0.960)	514182	6.47292	430
23 Benzo(a)pyrene	252	13.367	13.358	(0.993)	464465	6.28337	420
25 Indeno(1,2,3-cd)pyrene	276	15.112	15.103	(1.122)	475566	6.19054	410(M)
26 Dibenzo(a,h)anthracene	278	15.147	15.144	(1.125)	418192	5.85080	390
27 Benzo(g,h,i)perylene	276	15.588	15.585	(1.157)	444673	6.46773	430

QC Flag Legend

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

Data File: 1DF07028.D

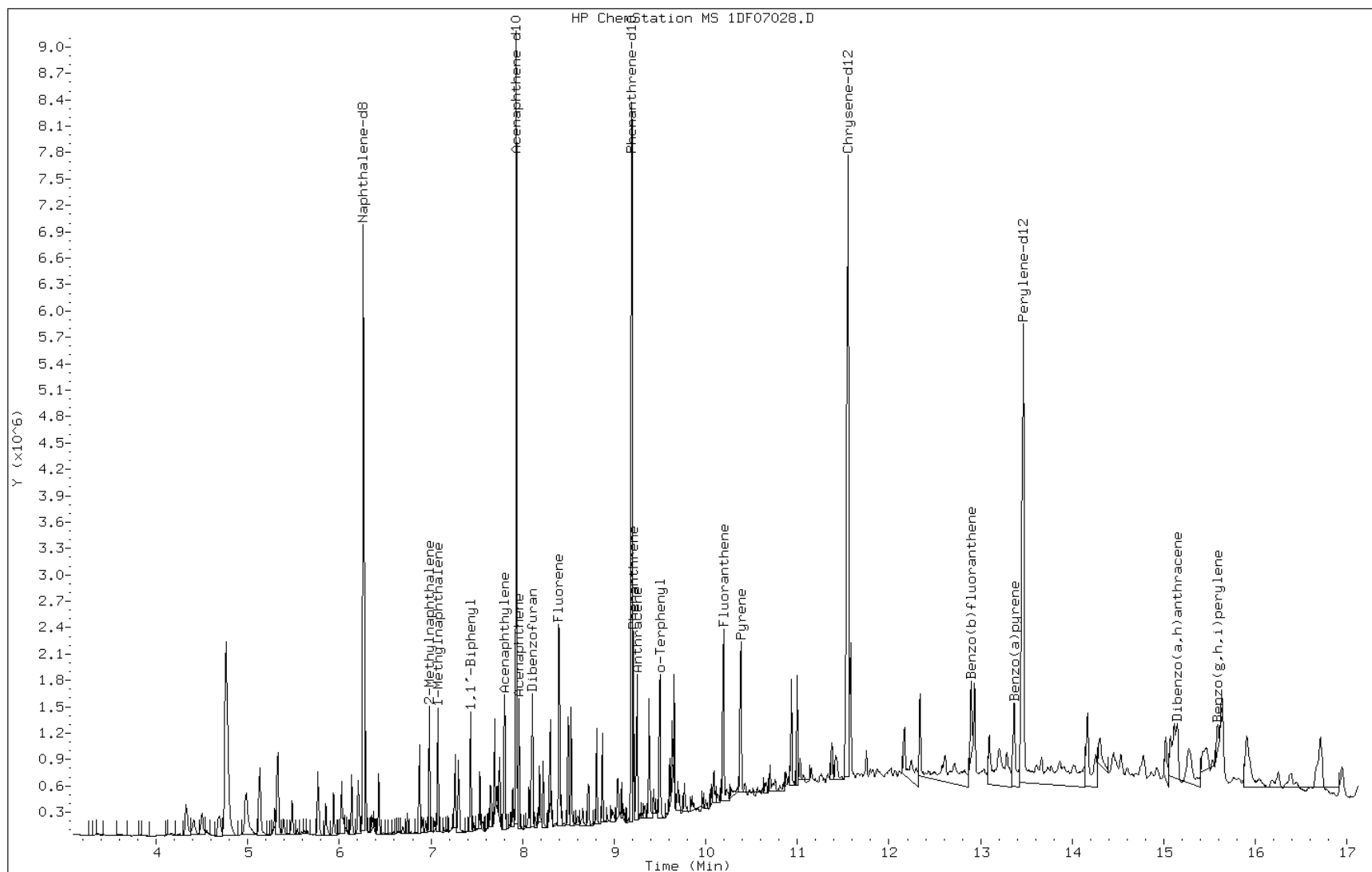
Date: 07-JUN-2013 21:25

Client ID:

Instrument: BSMSD.i

Sample Info: 680-90855-a-21-c msd

Operator: SCC

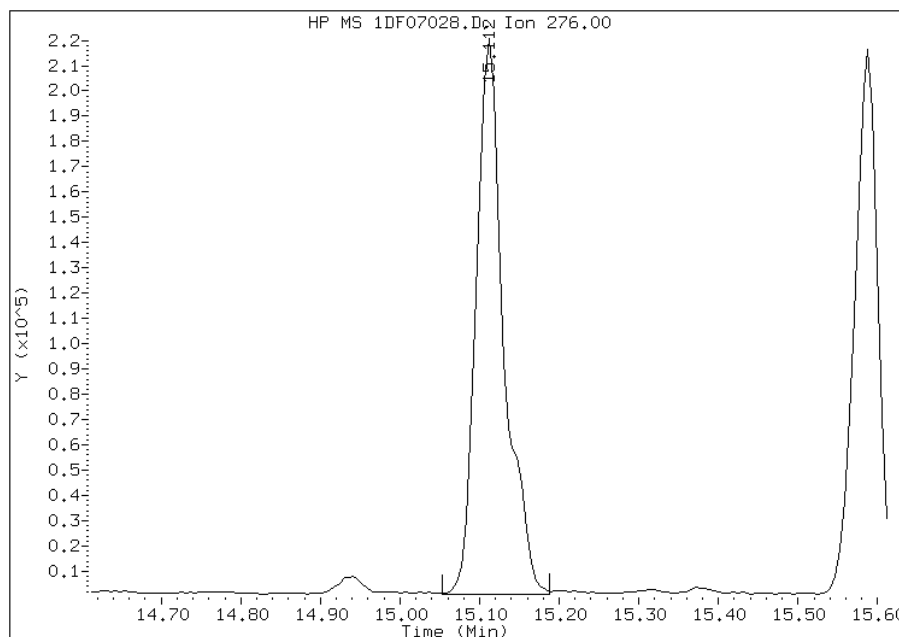


Manual Integration Report

Data File: 1DF07028.D
Inj. Date and Time: 07-JUN-2013 21:25
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/09/2013

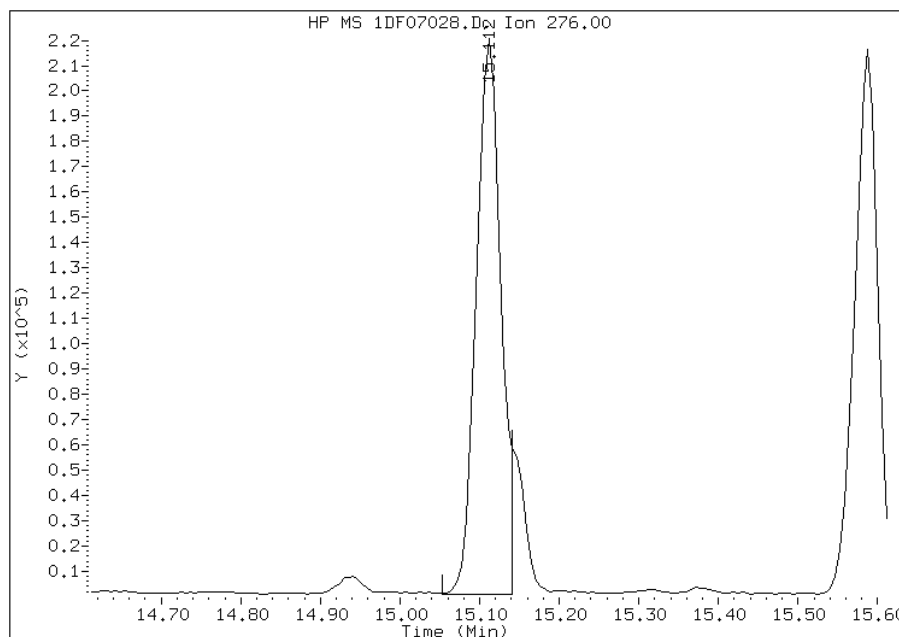
Processing Integration Results

RT: 15.11
Response: 526908
Amount: 7
Conc: 453



Manual Integration Results

RT: 15.11
Response: 475566
Amount: 6
Conc: 410



Manually Integrated By: cantins
Modification Date: 09-Jun-2013 10:20
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-90855-2SDG No.: 68090855-2Instrument ID: BSMD5973Start Date: 05/23/2013 10:28Analysis Batch Number: 137830End Date: 05/23/2013 23:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/23/2013 10:28	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 10:50	1		DB-5MS 250 (um)
DFTTP 660-137830/2		05/23/2013 11:20	1	1DE23002.D	DB-5MS 250 (um)
IC 660-137830/3		05/23/2013 13:03	1	1DE23003.D	DB-5MS 250 (um)
IC 660-137830/4		05/23/2013 13:26	1	1DE23004.D	DB-5MS 250 (um)
IC 660-137830/5		05/23/2013 13:48	1	1DE23005.D	DB-5MS 250 (um)
IC 660-137830/6		05/23/2013 14:11	1	1DE23006.D	DB-5MS 250 (um)
ICIS 660-137830/7		05/23/2013 14:33	1	1DE23007.D	DB-5MS 250 (um)
IC 660-137830/8		05/23/2013 14:56	1	1DE23008.D	DB-5MS 250 (um)
IC 660-137830/9		05/23/2013 15:19	1	1DE23009.D	DB-5MS 250 (um)
ICV 660-137830/10		05/23/2013 15:41	1	1DE23010.D	DB-5MS 250 (um)
CCVIS 660-137830/12		05/23/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 17:19	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 17:41	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 18:04	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 18:26	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 18:49	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 19:11	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 19:34	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 19:56	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 20:19	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 20:41	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 21:04	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 21:27	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 21:49	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 22:12	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 22:34	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 22:57	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 23:19	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 23:42	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-90855-2SDG No.: 68090855-2Instrument ID: BSMD5973Start Date: 06/07/2013 10:36Analysis Batch Number: 138205End Date: 06/07/2013 22:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/07/2013 10:36	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 10:58	1		DB-5MS 250 (um)
DFTTP 660-138205/2		06/07/2013 11:23	1	1DF07002.D	DB-5MS 250 (um)
CCVIS 660-138205/3		06/07/2013 11:55	1		DB-5MS 250 (um)
CCVIS 660-138205/4		06/07/2013 12:17	1	1DF07004.D	DB-5MS 250 (um)
ZZZZZ		06/07/2013 12:40	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 13:07	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 13:30	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 13:53	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 14:15	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 14:38	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 15:01	1		DB-5MS 250 (um)
MB 660-138156/1-A		06/07/2013 15:23	1	1DF07012.D	DB-5MS 250 (um)
ZZZZZ		06/07/2013 15:46	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 16:09	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 16:31	1		DB-5MS 250 (um)
LCS 660-138156/2-A		06/07/2013 16:54	1	1DF07016.D	DB-5MS 250 (um)
ZZZZZ		06/07/2013 17:17	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 17:39	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 18:02	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 18:24	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 18:47	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 19:09	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 19:32	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 19:55	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 20:17	1		DB-5MS 250 (um)
680-90855-21	CV1285A-CS	06/07/2013 20:40	1	1DF07026.D	DB-5MS 250 (um)
680-90855-21 MS	CV1285A-CS MS	06/07/2013 21:02	1	1DF07027.D	DB-5MS 250 (um)
680-90855-21 MSD	CV1285A-CS MSD	06/07/2013 21:25	1	1DF07028.D	DB-5MS 250 (um)
ZZZZZ		06/07/2013 21:48	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 22:10	1		DB-5MS 250 (um)
ZZZZZ		06/07/2013 22:33	4		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-90855-2SDG No.: 68090855-2Instrument ID: BSMD5973Start Date: 06/11/2013 10:56Analysis Batch Number: 138352End Date: 06/11/2013 21:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/11/2013 10:56	1		DB-5MS 250 (um)
ZZZZZ		06/11/2013 11:19	1		DB-5MS 250 (um)
DFTTP 660-138352/2		06/11/2013 11:44	1	1DF11002.D	DB-5MS 250 (um)
CCVIS 660-138352/3		06/11/2013 12:00	1	1DF11003.D	DB-5MS 250 (um)
ZZZZZ		06/11/2013 12:23	1		DB-5MS 250 (um)
MB 660-138190/1-A		06/11/2013 12:45	1	1DF11005.D	DB-5MS 250 (um)
LCS 660-138190/2-A		06/11/2013 13:08	1	1DF11006.D	DB-5MS 250 (um)
ZZZZZ		06/11/2013 13:30	1		DB-5MS 250 (um)
ZZZZZ		06/11/2013 13:53	1		DB-5MS 250 (um)
ZZZZZ		06/11/2013 14:15	4		DB-5MS 250 (um)
ZZZZZ		06/11/2013 14:38	4		DB-5MS 250 (um)
ZZZZZ		06/11/2013 15:00	4		DB-5MS 250 (um)
ZZZZZ		06/11/2013 15:23	1		DB-5MS 250 (um)
ZZZZZ		06/11/2013 15:46	1		DB-5MS 250 (um)
ZZZZZ		06/11/2013 16:08	1		DB-5MS 250 (um)
ZZZZZ		06/11/2013 16:31	1		DB-5MS 250 (um)
ZZZZZ		06/11/2013 16:53	4		DB-5MS 250 (um)
ZZZZZ		06/11/2013 17:16	4		DB-5MS 250 (um)
ZZZZZ		06/11/2013 17:38	4		DB-5MS 250 (um)
ZZZZZ		06/11/2013 18:01	1		DB-5MS 250 (um)
ZZZZZ		06/11/2013 18:24	1		DB-5MS 250 (um)
ZZZZZ		06/11/2013 18:46	1		DB-5MS 250 (um)
ZZZZZ		06/11/2013 19:09	1		DB-5MS 250 (um)
ZZZZZ		06/11/2013 19:31	1		DB-5MS 250 (um)
680-90855-22	CV1285B-CS	06/11/2013 19:54	1	1DF11024.D	DB-5MS 250 (um)
680-90855-23	CV1285C-CS	06/11/2013 20:16	4	1DF11025.D	DB-5MS 250 (um)
ZZZZZ		06/11/2013 20:39	1		DB-5MS 250 (um)
680-91068-A-12-B MS		06/11/2013 21:01	1	1DF11027.D	DB-5MS 250 (um)
680-91068-A-12-C MSD		06/11/2013 21:24	1	1DF11028.D	DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90855-2SDG No.: 68090855-2Batch Number: 138156 Batch Start Date: 06/06/13 14:10 Batch Analyst: Nolan, RyanBatch Method: 3546 Batch End Date: 06/07/13 12:22

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00183		
MB 660-138156/1		3546, 8270C LL		14.99 g	1 mL		1 mL		
LCS 660-138156/2		3546, 8270C LL		14.95 g	1 mL	1 mL	1 mL		
680-90855-A-21	CV1285A-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-90855-A-21 MS	CV1285A-CS	3546, 8270C LL	T	15.14 g	1 mL	1 mL	1 mL		
680-90855-A-21 MSD	CV1285A-CS	3546, 8270C LL	T	15.11 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	ID:EX-ACETON BOT_00052(1531881)
Balance ID	B001
Person's name who did the concentration	RYAN NOLAN
Exchange Solvent Lot #	ID:DCM/ACETON_00086(1562106)
Exchange Solvent Name	ID:DCM/ACETON_00086(1562106)
Final Concentrator Volume	1ml mL
MeCl2 Lot #	ID:EX-MC CYCL_00058(1560904)
MeCl2/Acetone Lot #	ID:DCM/ACETON_00086(1562106)
Microwave Start Time	17:30 6/6/13
Microwave Stop Time	18:05 6/6/13
MS Lot Number	680-90855-21
Na2SO4 Lot Number	ID:EX-NA2SO4A_00067(1552132)
Ottawa Sand Lot #	ID:OTTAWA SAND_00020(1562146)
Person's name who did the prep	RYAN NOLAN
SOP Number	TP014
Person who witnessed spiking	SAUREL CEROME
Surrogate Lot Number	ID:EXLLSURINT_00183(1562144)
Water Bath ID	Turbo Vap # 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.

8270C LL

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90855-2SDG No.: 68090855-2Batch Number: 138156 Batch Start Date: 06/06/13 14:10 Batch Analyst: Nolan, RyanBatch Method: 3546 Batch End Date: 06/07/13 12:22

Basis	Basis Description
T	Total/NA

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

8270C LL

Page 2 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90855-2SDG No.: 68090855-2Batch Number: 138190 Batch Start Date: 06/07/13 10:07 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 06/07/13 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00183		
MB 660-138190/1		3546, 8270C LL		15.19 g	1 mL		1 mL		
LCS 660-138190/2		3546, 8270C LL		14.99 g	1 mL	1 mL	1 mL		
680-90855-A-22	CV1285B-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-90855-A-23	CV1285C-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-91068-A-12 MS		3546, 8270C LL	T	15.31 g	1 mL	1 mL	1 mL		
680-91068-A-12 MSD		3546, 8270C LL	T	15.31 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT53
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 58
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCl2 Lot #	EX-MC CYCL 58
MeCl2/Acetone Lot #	DCM/ACETON 90
Microwave Start Time	11:40 6/7/13
Microwave Stop Time	12:15 6/7/13
Na2SO4 Lot Number	EX-NA2S04A 67
Ottawa Sand Lot #	EX-OTTOWA SAND 20
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	ABRAHAM
Surrogate Lot Number	EXLLSURINT 183
Water Bath ID	TURBOVAP2 #1-3
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.

8270C LL

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90855-2SDG No.: 68090855-2Batch Number: 138190 Batch Start Date: 06/07/13 10:07 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 06/07/13 15:00

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.

8270C LL

Page 2 of 2

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90855-2
SDG No.: 68090855-2
Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV1285A-CS</u>	<u>680-90855-21</u>
<u>CV1285B-CS</u>	<u>680-90855-22</u>
<u>CV1285C-CS</u>	<u>680-90855-23</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90855-2
SDG Number: 68090855-2
Matrix: Solid Instrument ID: Moisture
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90855-2
SDG Number: 68090855-2
Matrix: Solid Instrument ID: Moisture
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90855-2
SDG Number: 68090855-2
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: 680-90855-2
SDG Number: 68090855-2
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2

SDG No.: 68090855-2

Instrument ID: Moisture Method: Moisture

Start Date: 06/03/2013 08:49 End Date: 06/03/2013 12:43

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
LCS 660-137998/1	1	T	08:49	X															
LCSD 660-137998/22	1	T	08:49	X															
ZZZZZZ			09:23																
ZZZZZZ			09:24																
ZZZZZZ			09:40																
ZZZZZZ			09:43																
ZZZZZZ			09:50																
ZZZZZZ			10:08																
ZZZZZZ			10:14																
ZZZZZZ			10:35																
ZZZZZZ			10:40																
ZZZZZZ			10:44																
ZZZZZZ			11:00																
ZZZZZZ			11:00																
680-90855-23	1	T	11:31	X															
ZZZZZZ			11:35																
ZZZZZZ			11:40																
680-90855-22	1	T	11:58	X															
ZZZZZZ			11:59																
ZZZZZZ			12:10																
ZZZZZZ			12:25																
ZZZZZZ			12:43																

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2

SDG No.: 68090855-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/03/2013 06:43 End Date: 06/03/2013 06:43

[illegible]

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90855-2

SDG No.: 68090855-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/03/2013 06:43 End Date: 06/03/2013 06:43

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
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ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
680-90855-21	1	T	06:43	X															
680-90855-21 MS	1	T	06:43	X															
680-90855-21 MSD	1	T	06:43	X															

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90855-2SDG No.: 68090855-2Batch Number: 137974 Batch Start Date: 06/03/13 06:43 Batch Analyst: Galio, AndrewBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-90855-A-21	CV1285A-CS	Moisture	T	52	0 g	4.71 g	4.54 g		
680-90855-A-21 MS	CV1285A-CS	Moisture	T	52	0 g	4.71 g	4.54 g		
680-90855-A-21 MSD	CV1285A-CS	Moisture	T	52	0 g	4.71 g	4.54 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	6.36.13

Basis	Basis Description
T	Total/NA

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

Moisture

Page 1 of 1

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90855-2SDG No.: 68090855-2Batch Number: 137998 Batch Start Date: 06/03/13 08:49 Batch Analyst: Galio, AndrewBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-137998/1		Moisture		0 g	10.03 g	9.023 g			
680-90855-A-22	CV1285B-CS	Moisture	T	0 g	4.62 g	4.049 g			
680-90855-A-23	CV1285C-CS	Moisture	T	0 g	4.419 g	3.966 g			
LCSD 660-137998/22		Moisture		0 g	10.021 g	9.015 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

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

Moisture

Page 1 of 1

Shipping and Receiving Documents

Serial Number 64265

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

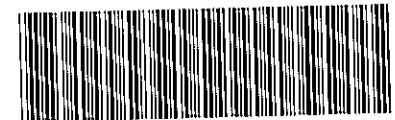
☐ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005/48-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>3</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY ☐	DATE DUE _____

(b) (6)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
DATE	TIME									
5-30-13	0944	Fm0308 D-CS	C	X			X			
	0953	Fm0308 E-CS	C	X			X	X		
	1000	Fm0308 F-CS	C	X			X			
	1310	Fm0097 A-CS	C	X			X			
	1310	Fm0097 A-CSD	C	X			X			
	1330	Fm0097 B-CS	C	X			X			
	1350	Fm0097 C-CS	C	X			X			
	1400	Fm0097 D-CS	C	X			X			
	1320	CV1285 A-CS	C	X			X			
	1330	CV1285 B-CS	C	X			X			
	1335	CV1285 C-CS	C	X			X			
	0940	CV1017 A-CS (Sieve)	C	X			X			



680-90855-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 5-30-13	TIME 1600	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 6-3-13	TIME 1715	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE 06/04/13	TIME 0655

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Curt McNulty</i>	DATE 5/31/13	TIME 0853	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-90855	LABORATORY REMARKS 22°C
--	-----------------	--------------	---	------------------	-------------------------------	----------------------------

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

 **TestAmerica Savannah**
5102 LaRoche Avenue
Savannah, GA 31404

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

○ Alternate Laboratory Name/Location

Phone:
Fax:

[illegible]

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-2

SDG Number: 68090855-2

Login Number: 90855

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-2

SDG Number: 68090855-2

Login Number: 90855

List Source: TestAmerica Tampa

List Number: 1

List Creation: 05/31/13 05:45 PM

Creator: Snead, Joshua

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-90855-2

TestAmerica Sample Delivery Group: 68090855-2

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:

6/14/2013 5:10:46 PM

Bernard Kirkland, Project Manager I

(912)354-7858 e.3238

bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey, Project Manager II

lisa.harvey@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Case Narrative

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

Job ID: 680-90855-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90855-2

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 05/31/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1285A-CS (680-90855-21), CV1285B-CS (680-90855-22) and CV1285C-CS (680-90855-23) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/06/2013 and 06/07/2013 and analyzed on 06/07/2013 and 06/11/2013.

Sample CV1285C CS (680 90855 23)[4] required dilution prior to analysis The reporting limits have been adjusted accordingly

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-91068-12 in batch 660-138352. Several analytes also exceeded the RPD limit.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90855-21	CV1285A-CS	Solid	05/30/13 13:20	05/31/13 08:53
680-90855-22	CV1285B-CS	Solid	05/30/13 13:30	05/31/13 08:53
680-90855-23	CV1285C-CS	Solid	05/30/13 13:35	05/31/13 08:53

Method Summary

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Definitions/Glossary

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

Client Sample ID: CV1285A-CS

Lab Sample ID: 680-90855-21

Date Collected: 05/30/13 13:20

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Acenaphthylene	13	J	41	5.2	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Anthracene	25		8.7	4.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Benzo[a]anthracene	82		8.3	4.0	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Benzo[a]pyrene	94		11	5.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Benzo[b]fluoranthene	160		13	6.3	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Benzo[g,h,i]perylene	89		21	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Benzo[k]fluoranthene	51		8.3	3.7	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Chrysene	130		9.3	4.7	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Dibenz(a,h)anthracene	28		21	4.2	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Fluoranthene	170		21	4.1	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Fluorene	10	J	21	4.2	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Indeno[1,2,3-cd]pyrene	80		21	7.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
1-Methylnaphthalene	45		41	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
2-Methylnaphthalene	69		41	7.4	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Naphthalene	48		41	4.6	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Phenanthrene	140		8.3	4.0	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Pyrene	140		21	3.8	ug/Kg	☼	06/06/13 14:10	06/07/13 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	58		30 - 130				06/06/13 14:10	06/07/13 20:40	1

Client Sample ID: CV1285B-CS

Lab Sample ID: 680-90855-22

Date Collected: 05/30/13 13:30

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Acenaphthylene	9.9	J	46	5.7	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Anthracene	22		9.6	4.8	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Benzo[a]anthracene	82		9.1	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Benzo[a]pyrene	83		12	5.9	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Benzo[b]fluoranthene	160		14	7.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Benzo[g,h,i]perylene	58		23	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Benzo[k]fluoranthene	47		9.1	4.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Chrysene	120		10	5.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Dibenz(a,h)anthracene	23		23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Fluoranthene	140		23	4.6	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Fluorene	9.1	J	23	4.7	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Indeno[1,2,3-cd]pyrene	61		23	8.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
1-Methylnaphthalene	69		46	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
2-Methylnaphthalene	110		46	8.1	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Naphthalene	130		46	5.0	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Phenanthrene	140		9.1	4.5	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Pyrene	110		23	4.2	ug/Kg	☼	06/07/13 10:07	06/11/13 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	41		30 - 130				06/07/13 10:07	06/11/13 19:54	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

Client Sample ID: CV1285C-CS

Lab Sample ID: 680-90855-23

Date Collected: 05/30/13 13:35

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	450	U	450	89	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Acenaphthylene	180	U	180	22	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Anthracene	80		38	19	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Benzo[a]anthracene	290		36	17	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Benzo[a]pyrene	310		47	23	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Benzo[b]fluoranthene	510		55	27	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Benzo[g,h,i]perylene	180		89	20	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Benzo[k]fluoranthene	160		36	16	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Chrysene	330		40	20	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Dibenz(a,h)anthracene	75 J		89	18	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Fluoranthene	470		89	18	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Fluorene	37 J		89	18	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Indeno[1,2,3-cd]pyrene	200		89	32	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
1-Methylnaphthalene	100 J		180	20	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
2-Methylnaphthalene	170 J		180	32	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Naphthalene	160 J		180	20	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Phenanthrene	430		36	17	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Pyrene	400		89	17	ug/Kg	☼	06/07/13 10:07	06/11/13 20:16	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				06/07/13 10:07	06/11/13 20:16	4

QC Sample Results

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

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

Lab Sample ID: MB 660-138156/1-A

Matrix: Solid

Analysis Batch: 138205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Acenaphthylene	40	U	40	5.0	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Fluoranthene	20	U	20	4.0	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Fluorene	20	U	20	4.1	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Naphthalene	40	U	40	4.4	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		06/06/13 14:10	06/07/13 15:23	1
Pyrene	20	U	20	3.7	ug/Kg		06/06/13 14:10	06/07/13 15:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	71		30 - 130	06/06/13 14:10	06/07/13 15:23	1

Lab Sample ID: LCS 660-138156/2-A

Matrix: Solid

Analysis Batch: 138205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	669	504		ug/Kg		75	39 - 130
Acenaphthylene	669	551		ug/Kg		82	38 - 130
Anthracene	669	555		ug/Kg		83	37 - 130
Benzo[a]anthracene	669	486		ug/Kg		73	40 - 130
Benzo[a]pyrene	669	496		ug/Kg		74	49 - 130
Benzo[b]fluoranthene	669	541		ug/Kg		81	37 - 130
Benzo[g,h,i]perylene	669	555		ug/Kg		83	32 - 130
Benzo[k]fluoranthene	669	537		ug/Kg		80	32 - 130
Chrysene	669	492		ug/Kg		74	41 - 130
Dibenz(a,h)anthracene	669	532		ug/Kg		80	27 - 130
Fluoranthene	669	539		ug/Kg		81	40 - 130
Fluorene	669	547		ug/Kg		82	40 - 130
Indeno[1,2,3-cd]pyrene	669	512		ug/Kg		77	30 - 130
1-Methylnaphthalene	669	509		ug/Kg		76	31 - 130
2-Methylnaphthalene	669	541		ug/Kg		81	33 - 130
Naphthalene	669	523		ug/Kg		78	36 - 130
Phenanthrene	669	531		ug/Kg		79	42 - 130
Pyrene	669	508		ug/Kg		76	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

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

Lab Sample ID: LCS 660-138156/2-A

Matrix: Solid

Analysis Batch: 138205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138156

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	75		30 - 130

Lab Sample ID: 680-90855-21 MS

Matrix: Solid

Analysis Batch: 138205

Client Sample ID: CV1285A-CS

Prep Type: Total/NA

Prep Batch: 138156

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	100	U	685	415		ug/Kg	☼	61	39 - 130
Acenaphthylene	13	J	685	448		ug/Kg	☼	63	38 - 130
Anthracene	25		685	459		ug/Kg	☼	63	37 - 130
Benzo[a]anthracene	82		685	484		ug/Kg	☼	59	40 - 130
Benzo[a]pyrene	94		685	484		ug/Kg	☼	57	49 - 130
Benzo[b]fluoranthene	160		685	593		ug/Kg	☼	63	37 - 130
Benzo[g,h,i]perylene	89		685	521		ug/Kg	☼	63	32 - 130
Benzo[k]fluoranthene	51		685	487		ug/Kg	☼	64	32 - 130
Chrysene	130		685	522		ug/Kg	☼	57	41 - 130
Dibenz(a,h)anthracene	28		685	429		ug/Kg	☼	59	27 - 130
Fluoranthene	170		685	643		ug/Kg	☼	69	40 - 130
Fluorene	10	J	685	447		ug/Kg	☼	64	40 - 130
Indeno[1,2,3-cd]pyrene	80		685	480		ug/Kg	☼	58	30 - 130
1-Methylnaphthalene	45		685	463		ug/Kg	☼	61	31 - 130
2-Methylnaphthalene	69		685	531		ug/Kg	☼	67	33 - 130
Naphthalene	48		685	463		ug/Kg	☼	61	36 - 130
Phenanthrene	140		685	616		ug/Kg	☼	70	42 - 130
Pyrene	140		685	585		ug/Kg	☼	65	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	60		30 - 130

Lab Sample ID: 680-90855-21 MSD

Matrix: Solid

Analysis Batch: 138205

Client Sample ID: CV1285A-CS

Prep Type: Total/NA

Prep Batch: 138156

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	100	U	687	405		ug/Kg	☼	59	39 - 130	2	40
Acenaphthylene	13	J	687	455		ug/Kg	☼	64	38 - 130	1	40
Anthracene	25		687	450		ug/Kg	☼	62	37 - 130	2	40
Benzo[a]anthracene	82		687	436		ug/Kg	☼	52	40 - 130	11	40
Benzo[a]pyrene	94		687	431		ug/Kg	☼	49	49 - 130	11	40
Benzo[b]fluoranthene	160		687	525		ug/Kg	☼	53	37 - 130	12	40
Benzo[g,h,i]perylene	89		687	444		ug/Kg	☼	52	32 - 130	16	40
Benzo[k]fluoranthene	51		687	444		ug/Kg	☼	57	32 - 130	9	40
Chrysene	130		687	504		ug/Kg	☼	55	41 - 130	4	40
Dibenz(a,h)anthracene	28		687	402		ug/Kg	☼	54	27 - 130	6	40
Fluoranthene	170		687	550		ug/Kg	☼	55	40 - 130	16	40
Fluorene	10	J	687	444		ug/Kg	☼	63	40 - 130	1	40
Indeno[1,2,3-cd]pyrene	80		687	425		ug/Kg	☼	50	30 - 130	12	40
1-Methylnaphthalene	45		687	443		ug/Kg	☼	58	31 - 130	4	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

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

Lab Sample ID: 680-90855-21 MSD

Matrix: Solid

Analysis Batch: 138205

Client Sample ID: CV1285A-CS

Prep Type: Total/NA

Prep Batch: 138156

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	69		687	501		ug/Kg	☼	63	33 - 130	6	40
Naphthalene	48		687	440		ug/Kg	☼	57	36 - 130	5	40
Phenanthrene	140		687	541		ug/Kg	☼	59	42 - 130	13	40
Pyrene	140		687	495		ug/Kg	☼	51	44 - 130	17	40
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
o-Terphenyl	64		30 - 130								

Lab Sample ID: MB 660-138190/1-A

Matrix: Solid

Analysis Batch: 138352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Acenaphthylene	39	U	39	4.9	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Anthracene	8.3	U	8.3	4.1	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Chrysene	8.9	U	8.9	4.4	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Dibenz(a,h)anthracene	20	U	20	4.0	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Fluoranthene	20	U	20	3.9	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Fluorene	20	U	20	4.0	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
2-Methylnaphthalene	39	U	39	7.0	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Naphthalene	39	U	39	4.3	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Pyrene	20	U	20	3.7	ug/Kg		06/07/13 10:07	06/11/13 12:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
o-Terphenyl	83		30 - 130			06/07/13 10:07	06/11/13 12:45	1	

Lab Sample ID: LCS 660-138190/2-A

Matrix: Solid

Analysis Batch: 138352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	667	407		ug/Kg		61	39 - 130
Acenaphthylene	667	445		ug/Kg		67	38 - 130
Anthracene	667	439		ug/Kg		66	37 - 130
Benzo[a]anthracene	667	399		ug/Kg		60	40 - 130
Benzo[a]pyrene	667	398		ug/Kg		60	49 - 130
Benzo[b]fluoranthene	667	451		ug/Kg		68	37 - 130
Benzo[g,h,i]perylene	667	414		ug/Kg		62	32 - 130
Benzo[k]fluoranthene	667	426		ug/Kg		64	32 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

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

Lab Sample ID: LCS 660-138190/2-A

Matrix: Solid

Analysis Batch: 138352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	667	382		ug/Kg		57	41 - 130
Dibenz(a,h)anthracene	667	408		ug/Kg		61	27 - 130
Fluoranthene	667	435		ug/Kg		65	40 - 130
Fluorene	667	452		ug/Kg		68	40 - 130
Indeno[1,2,3-cd]pyrene	667	391		ug/Kg		59	30 - 130
1-Methylnaphthalene	667	418		ug/Kg		63	31 - 130
2-Methylnaphthalene	667	446		ug/Kg		67	33 - 130
Naphthalene	667	417		ug/Kg		62	36 - 130
Phenanthrene	667	430		ug/Kg		64	42 - 130
Pyrene	667	413		ug/Kg		62	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	62		30 - 130

QC Association Summary

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

GC/MS Semi VOA

Prep Batch: 138156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-21	CV1285A-CS	Total/NA	Solid	3546	
680-90855-21 MS	CV1285A-CS	Total/NA	Solid	3546	
680-90855-21 MSD	CV1285A-CS	Total/NA	Solid	3546	
LCS 660-138156/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-138156/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 138190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-22	CV1285B-CS	Total/NA	Solid	3546	
680-90855-23	CV1285C-CS	Total/NA	Solid	3546	
LCS 660-138190/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-138190/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 138205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-21	CV1285A-CS	Total/NA	Solid	8270C LL	138156
680-90855-21 MS	CV1285A-CS	Total/NA	Solid	8270C LL	138156
680-90855-21 MSD	CV1285A-CS	Total/NA	Solid	8270C LL	138156
LCS 660-138156/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	138156
MB 660-138156/1-A	Method Blank	Total/NA	Solid	8270C LL	138156

Analysis Batch: 138352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-22	CV1285B-CS	Total/NA	Solid	8270C LL	138190
680-90855-23	CV1285C-CS	Total/NA	Solid	8270C LL	138190
LCS 660-138190/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	138190
MB 660-138190/1-A	Method Blank	Total/NA	Solid	8270C LL	138190

General Chemistry

Analysis Batch: 137974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-21	CV1285A-CS	Total/NA	Solid	Moisture	
680-90855-21 MS	CV1285A-CS	Total/NA	Solid	Moisture	
680-90855-21 MSD	CV1285A-CS	Total/NA	Solid	Moisture	

Analysis Batch: 137998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90855-22	CV1285B-CS	Total/NA	Solid	Moisture	
680-90855-23	CV1285C-CS	Total/NA	Solid	Moisture	
LCS 660-137998/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-137998/22	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

Client Sample ID: CV1285A-CS

Date Collected: 05/30/13 13:20

Date Received: 05/31/13 08:53

Lab Sample ID: 680-90855-21

Matrix: Solid

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138156	06/06/13 14:10	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	138205	06/07/13 20:40	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

Client Sample ID: CV1285B-CS

Date Collected: 05/30/13 13:30

Date Received: 05/31/13 08:53

Lab Sample ID: 680-90855-22

Matrix: Solid

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138352	06/11/13 19:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 11:58	AG	TAL TAM

Client Sample ID: CV1285C-CS

Date Collected: 05/30/13 13:35

Date Received: 05/31/13 08:53

Lab Sample ID: 680-90855-23

Matrix: Solid

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138190	06/07/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138352	06/11/13 20:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 11:31	AG	TAL TAM

Laboratory References:

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

Serial Number 64265

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

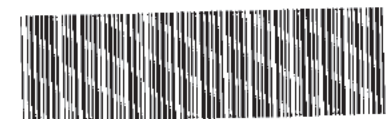
Phone:
Fax:

PROJECT REFERENCE <i>35m H2S Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>3</i>
TAL (LAB) PROJECT MANAGER <i>Anna Harvey</i>	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY ☐

(b) (6)

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

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME																	
5-30-13	0944	FM0308 D-CS	C	X			X											
	0953	FM0308 E-CS	C	X			X	X										
	1000	FM0308 F-CS	C	X			X											
	1310	FM0097A-CS	C	X			X											
	1310	FM0097A-CSD	C	X			X											
	1330	FM0097B-CS	C	X			X											
	1350	FM0097C-CS	C	X			X											
	1400	FM0097D-CS	C	X			X											
	1320	CV1285A-CS	C	X			X											
	1330	CV1285B-CS	C	X			X											
	1335	CV1285C-CS	C	X			X											
	0940	CV1017A-CS (Sieve)	C	X			X											



680-90855-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 5-30-13	TIME 1600	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 6-3-13	TIME 1715	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE 06/04/13	TIME 0655

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Carel McIntyre</i>		DATE 5/31/13	TIME 0853	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-90855	LABORATORY REMARKS 2206
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Serial Number 64266

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 <i>3544 Ave Remand</i>	PROJECT NO. <i>2005188-1350</i>	PROJECT LOCATION (STATE) <i>NC</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>3</i>	OF <i>3</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY ☐	

(b) (6)

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

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	PRESERVATIVE										NUMBER OF CONTAINERS SUBMITTED	REMARKS																				
DATE	TIME																																						
<i>5-30-13</i>	<i>0955</i>	<i>Fm0308E-CS (sieve)</i>	<i>C</i>	<i>X</i>				<i>LLP4H</i>	<i>Recl H 8 Mers</i>																														



680-90855-03 Chain of Custody

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-30-13</i>	TIME <i>1600</i>	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>6-3-13</i>	TIME <i>1715</i>	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>06/04/13</i>	TIME <i>0855</i>
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY			
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Carol McNulty</i>	DATE <i>5/31/13</i>	TIME <i>0853</i>	CUSTODY INTACT YES ☐ NO ☐
CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-90855</i>	LABORATORY REMARKS <i>2.22</i>	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-2

SDG Number: 68090855-2

Login Number: 90855

List Number: 1

Creator: Daughtry, Beth

List Source: TestAmerica Savannah

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90855-2

SDG Number: 68090855-2

Login Number: 90855

List Number: 1

Creator: Snead, Joshua

List Source: TestAmerica Tampa

List Creation: 05/31/13 05:45 PM

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

Certification Summary

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

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		399.01	07-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13 *
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
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

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

Certification Summary

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

TestAmerica Job ID: 680-90855-2
SDG: 68090855-2

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
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14